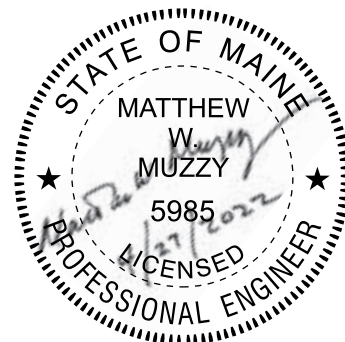


2021 ANNUAL REPORT DOLBY LANDFILL EASY MILLINOCKET, MAINE

Prepared for

STATE OF MAINE
DEPARTMENT OF ADMINISTRATION
AND FINANCIAL SERVICES
Augusta, Maine



April 2022

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ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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**2021 ANNUAL REPORT
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**

1.0 INTRODUCTION

The Dolby Solid Waste Landfill (Dolby Landfill or landfill) is located in the town of East Millinocket, Maine. The State of Maine Department of Administrative and Financial Services (DAFS) owns the landfill and the Bureau of General Services (BGS) operates the landfill. The Landfill operates under a license obtained by the Great Northern Paper Company (GNP) from the Maine Department of Environmental Protection (MEDEP) in 1984). Subsequent MEDEP amendment orders transferred the Dolby Landfill license to Katahdin Paper Company (April 2003) and then to the State of Maine (September 2011). The Dolby Landfill license requires the landfill owner (i.e., State of Maine) to submit an annual report to the MEDEP describing the previous year's operation of the landfill. This Annual Report has been prepared by Sevee & Maher Engineers, Inc. (SME) to fulfill the annual report requirement and includes discussion of the specific reporting items listed in Chapter 401.4.D of the MEDEP Maine Solid Waste Management Rules (Rules).

1.1 Site History

Dolby Landfill consists of three landfills (known as Dolby I, Dolby II, and Dolby III), which are located on the east side of Route 157, approximately 2-1/2 miles northwest of the town center of East Millinocket, Maine (see Figure 1-1). Two of the landfills are supported by a lined leachate pond. Leachate is pumped from the pond to the East Millinocket wastewater treatment plant that is located approximately 4 miles to the south.

The Dolby I Landfill received a license from the MEDEP in 1975. Dolby I occupies about 23 acres and is located southwest of the Dolby II and III Landfills. The principal waste streams to Dolby I were wastewater treatment sludge, woodroom/woodyard waste, wood ash, and general rubbish from the former GNP pulp and paper mills in Millinocket and East Millinocket. at Dolby I received waste from 1975 to 1979 and a soil final cover was placed over Dolby I in 1980 /1981.

The Dolby II Landfill is located west of the Dolby I Landfill and immediately east and upslope of the Dolby III Landfill. Dolby II was licensed by the MEDEP in 1978 (Board Order # 26-0796-19170) and occupies about 63 acres. The principal waste streams delivered to Dolby II were wastewater treatment sludge, woodroom/woodyard waste, wood ash, and general rubbish from the former GNP Millinocket and East Millinocket mills. Waste placement in Dolby II occurred between 1979 and 1986. A soil final cover was placed over Dolby II in 1987. Over time, the waste placed in Dolby II settled creating a near flat landfill top area. In 1996, GNP was granted an amendment for a vertical increase on the top of Dolby II (MEDEP Order #S-000796-WD-AC-A). To construct the vertical increase the final cover for the Dolby II top area was

removed and additional waste was placed. The waste placement, regrading, and replacement of the soil final cover occurred between 1996 and 1999.

Construction of Dolby III was initiated in 1984 and a license renewal for the landfill was submitted to MEDEP in 1989 (SME, 1989). Dolby III occupies about 65 acres and consists of 17 waste cells; all of which have been closed.¹ The original waste streams at Dolby III were wastewater treatment sludge, woodroom/woodyard waste, wood ash, general rubbish from the former Millinocket and East Millinocket mills and municipal solid waste (MSW) from the local communities. MSW disposal in Dolby III was stopped in 1993 due to a change in the MEDEP Rules. From 1987 to 1999, Dolby III was licensed to receive wood ash from the Signal Sherman biomass power boiler (MEDEP Order #L-000796-07-A-N). From 1988 to 1993, Dolby III received ash resulting from burning demolition debris and brush piles by the towns of East Millinocket and Millinocket (MEDEP Order #L-000796-7A-L-M). In September 2011, the MEDEP issued a license transfer to the State of Maine (MEDEP Order #S-000796-WR-AJ-T) for operation of the Dolby III Landfill. On December 4, 2012, MEDEP approved a minor license revision (S-000796-WT-AM-N) for a one-time disposal of approximately 1,000 cubic yards of secondary wastewater treatment plant residuals from the Town of Millinocket. On January 18, 2012, MEDEP approved a minor license revision (S-000796-WU-AL-N) that allowed for the disposal of petroleum-contaminated soils from sources other than GNP.

In April 2016, DAFS applied to MEDEP for a landfill cover upgrade for Dolby III to reduce the volume of leachate generated by that landfill and, MEDEP subsequently issued a minor license revision (#S-000796-WO-AO-N) to allow the cover upgrade. Phase 1 of the landfill cover upgrade project included construction of an upgraded cover system over approximately 26 acres of Dolby III waste area. The upgraded cover system for Phase 1 consist of (from top to bottom):

- A 4-inch vegetative soil layer;
- A 14-inch cover soil layer;
- A drainage geocomposite and cover system drainage pipes;
- A 40-mil HDPE textured liner; and
- A minimum 6-inch gas collection system (i.e., sand and gas vent piping).

Approximately 40 acres of additional cover upgrade remain to be completed for Dolby III.

¹ The Dolby III Landfill was closed to day-to-day landfilling in 2011. Since that time, provisions have been made to accept very small volumes of ash from the Towns of Millinocket, East Millinocket, and Medway. Small quantities of municipal water treatment sludge from the Town of Millinocket are also occasionally disposed of in Dolby III. In 2018 a temporary cell for disposal of lagoon sludge from the town of East Millinocket's wastewater treatment plant upgrade.

In 2018, approximately 2.5 acres of Dolby III, which had been previously closed with a soil cover, were temporarily opened for disposal of aeration lagoon sludge from the former East Millinocket mill site. This temporary cell remains open and is used for disposal of small volumes of ash delivered from solid waste transfer stations in Millinocket, East Millinocket, and Medway. In 2021, approximately 416 cubic yards of ash from was placed in the temporary cell.

The leachate pond serving Dolby II and Dolby III was constructed in 1984 when Dolby III was built and was reconstructed in 2007. The leachate pond uses a double-synthetic membrane liner with a leak detection system between the primary and secondary liners. Leachate is pumped from the pond and flows via pipeline to the Town of East Millinocket's wastewater treatment plant approximately 3.5 miles away. In 2021, the total leachate volume pumped from the pond was approximately 44.1 million gallons (including water from the leachate pond underdrain).

1.2 Hydrogeologic Setting

The Dolby II and Dolby III Landfills are positioned on land sloping from east to west at about 2 to 14 percent grades between elevations 350 feet (west) and 425 feet (east). Surface water from the landfill site area generally flows toward Partridge Brook Flowage. Partridge Brook Flowage in turn flows into Dolby Pond, which is an impoundment on the West Branch of the Penobscot River formed by Dolby Dam. Site subsurface conditions for the landfill were first explored in 1975 (E.C. Jordan Co., 1975); then in 1977 and 1978 (E.C. Jordan, 1978); in 1980 (E.C. Jordan, 1981); and in 1983 (E.C. Jordan, 1983). The exploration data indicated the soil in the Dolby Landfill area consisted of glacial till over bedrock. Moreover, it was determined the site was blanketed with a layer of ablation till ranging in thickness from a few feet to more than 25 feet. In areas where deeper soil was encountered, the ablation till was generally underlain by a layer of basal till such that the overall glacial till thickness generally exceeded 30 feet. Hydraulic conductivity of the glacial till was measured in both the laboratory and field and ranged from approximately 1×10^{-4} to 1×10^{-7} centimeters per second (cm/sec), with the basal till permeability generally exhibiting the lower end of the range. Bedrock in the form of near-vertically bedded metasiltstone underlies the glacial till. Bedrock hydraulic conductivities were measured to generally range from 1×10^{-4} to 1×10^{-8} cm/sec.

The ground surface topography and geologic setting for the Dolby II and Dolby III landfills cause a groundwater divide beneath the Dolby II landfill. Groundwater beneath the eastern portion of Dolby II generally flows toward the east and groundwater beneath the western portion of Dolby II and all of Dolby III generally flows toward the west. The site setting creates a groundwater condition of upward hydraulic gradients (i.e., groundwater discharge) on the eastern side of the Dolby II landfill and in the lower half (i.e., the western portion) of the Dolby III landfill area. The landfill design for Dolby III addressed this groundwater discharge condition with a leachate collection system and interceptor drain in the western portion of the Dolby III Landfill. Figure 1-2 presents an interpretation of the groundwater discharge areas

on the eastern side of Dolby II and on the western side of Dolby III. Figure 1-2 includes groundwater levels measured in the monitoring wells near the landfill perimeter that are indicative of the upward gradients causing the groundwater discharge.

LEACHATE
TRANSPORT PIPELINE

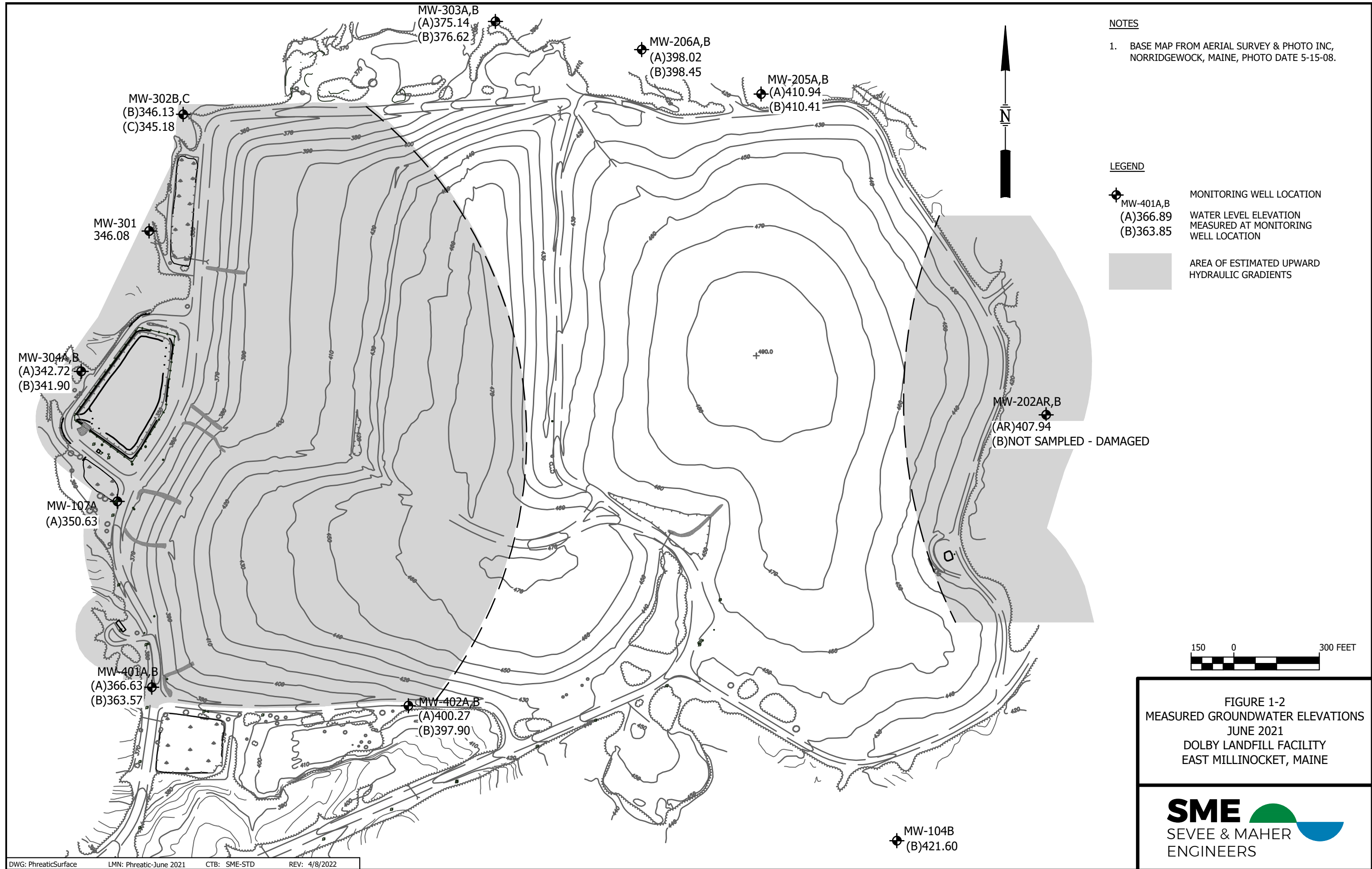
DOLBY LANDFILL

BASE MAP ADAPTED FROM 7.5 MIN
USGS TOPOGRAPHIC QUADRANGLES
MILLINOCKET, ME - 1988
EAST MILLINOCKET, ME - 1988



FIGURE 1-1
SITE LOCATION MAP
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE

SME 
SEVEE & MAHER
ENGINEERS



NOTES
 1. BASE MAP FROM AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE, PHOTO DATE 5-15-08.

LEGEND

- MONITORING WELL LOCATION
- WATER LEVEL ELEVATION MEASURED AT MONITORING WELL LOCATION
- AREA OF ESTIMATED UPWARD HYDRAULIC GRADIENTS

FIGURE 1-2
 MEASURED GROUNDWATER ELEVATIONS
 JUNE 2021
 DOLBY LANDFILL FACILITY
 EAST MILLINOCKET, MAINE



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2.0 2021 LANDFILL ACTIVITY

Activities occurring at the landfill in 2021 consisted of the following:

- Quarterly visual inspections (spring, summer, and fall) of the three landfills were made by SME and occurred in April, September, and October 2021. These inspections also included the leachate pond and associated leachate transport pipeline. The inspection reports are included in Appendix A. Based on the quarterly inspections; all three landfills were found to be in general compliance with the facility's MEDEP license;
- The leachate pond liner was cleaned and efforts were made to resolve an apparent leak in the leachate pond's liner system;
- The leachate transport pipeline (connecting the leachate point to the East Millinocket wastewater treatment plant) was cleaned;
- The force main connecting the leachate pond underdrain to the leachate pond pump station was cleaned;
- Leachate Pump #1 (in the leachate pond pump station) was rebuilt;
- The underdrain pump in the leachate pond underdrain was replaced (twice);
- The leachate pump station's wet well was upgraded to include an ultra-sonic water level sensor that communicates with a control module in the pump station building;
- The flow meter for the leak detection system was replaced in September 2021.
- Monitoring well MW-202B was repaired (see Appendix B), and
- The entire surface of Dolby II and III was mowed. The mowing included filling/seeding several low spots on the south side of the Dolby II cover that were hazards to the mowing equipment)

2.1 Leachate Pond and Leachate Transport Pipeline

Leachate collected from the Dolby II and III Landfills flows by gravity pipeline to the leachate pond near the west side of Dolby III. The leachate flows via a force main and gravity pipeline (often referred to as the leachate transport pipeline) to the Town of East Millinocket's wastewater treatment plant. The leachate pond is supported by a leachate pump station and an undrain from which groundwater is pumped to the leachate pump station's wet well. The liner system for the leachate pond includes a leak detection layer. Any liquid accumulated in the leak detection layer is pumped into the leachate pump station's wet well. The volume of liquid removed from the leak detection system is measured by a flow meter that reads to the leachate pump station. In spring 2021 it was determined that the flow meter was not working and a

replacement flowmeter was ordered. Supply chain issues precluded replacing the flow meter until March 2022. Leachate pond and pipeline work activities completed in 2021 included:

- In spring 2021 it became apparent that the leak detection layer for the leachate pond's liner system was showing signs of water infiltration. There had been no events in 2020 to suggest a reason for infiltration into the leak detection system to be occurring. Investigation into the possible cause for the leakage into the leak detection layer was explored with MEDEP and BGS. The leachate pond liner system includes boot penetrations at three locations: the leachate inflow pipe, the leachate outfall pipe, and a pipe that serves as a conduit for the leak detection pump and associated electrical feed as well as the pump discharge line. Consensus was that there was no apparent reason for the primary liner to be leaking. Moreover, the steel banding securing the pipe boot(s) to the pipe(s) passing through the boots appeared visibly secure. A decision was made to introduce fluorescent colored dye into the leak detection layer and visually monitor the leachate pond underdrain and the stored water in the leachate held inside the pond. To do this the pond's surface elevation was raised and the water in the pond's underdrain was lower as much as practical. The liquid levels in the leachate pond and underdrain were selected such that liquid in the leak detection layer would be subject to pressure from the leachate in the pond, which would encourage the dye colored liquid in the leak detection layer to seep into the underdrain and/or into the leachate stored in the pond. UV light sources were used to help illuminate the fluorescence of the dye in the underdrain manhole and in the leachate pond pump station's wet well. No visual presence of the fluorescent dye was detected in the underdrain manhole, in the wet well, nor in the leachate pond itself. Appendix C includes information describing the dye test.

Consensus with MEDEP and BGS was to clean the entire exposed surface of the leachate pond's primary liner, conduct a visual inspection of the primary liner's surface, and inspect the pipe boot penetrations for potential leakage pathways. During the period of July 26 through July 29, 2021 ACV Enviro of Skowhegan, Maine cleaned the liner surface of essentially all accumulated sediment. The cleaned surface was in turn visually inspected by RTD Enterprises of Madison, Maine, BGS's on-site representative and SME for possible leaks. Several blemishes in and previous repairs of the liner surface were detected that were improved by RTD using conventional HDPE welding techniques. The blemishes and previous repairs were result of previous liner cleaning efforts. None of the blemishes or previous repairs observed in 2021 were apparent points of liner leakage (to the leak detection layer).

After completing the liner improvements, RTD removed the stainless steel banding from each of the liner pipe boot penetrations, removed the (old) waterproof caulking sealant between the pipe boot and adjacent pipe, replaced the removed caulking with new caulking, and installed new stainless steel bands around the pipe boot. Appendix C includes a report of the liner cleaning and pipe boot maintenance activities.

Following the pond liner cleaning the leachate level in the pond was allowed to rise to levels similar to those used for the dye test. No leaks into or out of the leak detection system were noted, however it was observed that the leak detection pump would actuate frequently to remove liquid accumulated in the leak detection layer. That observation suggested leakage into the leak detection layer was still occurring (with no apparent reason). In September 2021 the leak detection flow meter was replaced and subsequent flow readings confirmed volumes of water leaking into the leak detection system were in excess of the Action Leakage Rate for the leachate pond. Appendix D includes correspondence with MEDEP regarding the Action Leakage Rate exceedance. Appendix D includes leak detection flows for months January, February, and March 2022 which confirm leakage into the leak detection layer.

To begin a more direct understanding of the potential effect of the leachate pond leakage on the geologic environment, the underdrain manhole was added to the landfill's water quality monitoring program for 2022. Discussion of the underdrain water quality is presented in Section 5.3. A recommendation to continue the underdrain water quality monitoring is included in Section 10.0 of this Annual Report.

- Leachate pipeline cleaning was performed from August 2 to August 5, 2021 and consisted mainly of the leachate force main and several low spots in the gravity main. ACV Enviro of Skowhegan, Maine was contracted to perform the pipeline dewatering, disassembly, cleaning, and reassembly. In addition to cleaning the leachate pipeline, the pump station wet well was cleaned by removing sediment and pressure washing the interior and the force main connecting the underdrain manhole to the pump station wet well was cleaned Appendix E provides information describing the pipeline cleaning.

2.2 Leachate Pond Pumps, Underdrain Pumps, and Leak Detection Flow Meter.

Annual electrical inspection of the leachate pumps in the pump station's wet well was performed by Steven's Electric of Monmouth, Maine. The inspection indicated unacceptable voltage loss in leachate Pump #1. Consensus was to rebuild Pump # 1 during typical a period of typical slow leachate inflow to the leachate pond. The Pump #1 was reinstalled in the wet well in January 2022.

The underdrain pump in underdrain manhole failed and was replaced in 2021. That pump failed again in 2021 and due to supply chain issues was replaced by a temporary pump in March 2022 (in advance of spring thaw and high leachate flows). A more durable pump (and a backup pump) have been on backorder since mid-2021 and are expected later in 2022.

The leak detection flow meter for the leak detection pump failed in 2021. A replacement flow meter was obtained installed January 2022. The flow meter schedule was also affected by supply chain issues.

Appendix F includes model information for the pumps and flow meters.

2.3 Access Road and Other Portions of Site

Annual road maintenance was not performed in 2021 as the road was observed to be in adequate condition.

2.4 Operator Training

No operator training was conducted in 2021. MEDEP has previously agreed that training was not necessarily due to the minimal use the landfill receives. With the exception of limited special disposal projects of very small scale, the landfill is closed and as such no active operation occurs in the waste disposal areas.

3.0 2021 LANDFILL OPERATIONS

SME, under contract to DAFS, served as the day to day landfill operator for the time period reflected in this Annual Report. SME subcontracted with several contractors to perform maintenance and limited operation activities including:

- Mid-South Engineering, Inc. (MSE) of Millinocket, Maine to act as local technical support at the landfill and to perform routine inspections of the landfill, leachate pond, and leachate transport pipeline;
- ACV Enviro of Skowhegan, Maine to perform leachate pond and leachate transport pipeline cleaning;
- Blaine McLaughlin of Medway, Maine to mow the leachate transport pipeline right-of-way, provide tree removal from the site access ways as deemed necessary, and mow the surface of the Dolby II and Dolby III Landfill;
- Stevens Electric of Monmouth, Maine to inspect the pumps and associated equipment used to pump leachate from the Dolby leachate pond to the wastewater treatment plant in East Millinocket, Maine;
- Adam Qualey Incorporated of Millinocket, Maine to provide additional snow removal at the landfill facility and the former GNP mill in East Millinocket (to access the leachate dumping pad);
- Thornton Construction of Milford, Maine for landfill maintenance relating to earthwork and drainage, pumping and trucking leachate from the leachate pond; and
- Katahdin Analytical Services of Scarborough, Maine provided laboratory analysis of groundwater and surface water as required by the facilities Environmental Monitoring Plan (EMP).

Appendix G presents an updated Post-Closure Monitoring and Maintenance Plan for the Dolby Landfill. The Post-Closure Monitoring and Maintenance Plan serves as the operations manual for the landfill in that the landfill is closed to receiving all waste with the exception of infrequent deliveries of wood ash from the nearby municipal transfer stations (see Table 7-1). The Post-Closure Monitoring and Maintenance Plan addresses performance of routine landfill inspections, leachate management (including the leachate pond, leachate pump station, and leachate transport pipeline), environmental monitoring, landfill cover monitoring and maintenance, and other post-closure related activities.

3.1 2021 Waste Received

The monthly waste logs for Dolby III for year 2021 (by waste stream) are attached as Appendix H and are summarized in Table 7-1 of Section 7.0. A total of 416 cubic yards (cy) of waste were delivered to the

Dolby III Landfill in 2021. The delivered waste was placed in the temporary cell on Dolby III that also contains lagoon sludge from the East Millinocket wastewater treatment plant.

3.2 Capacity Used and Remaining Capacity

There are no day-to-day active filling areas remaining at the Dolby landfill facility, and most of the landfill has been closed by covering. Approximately 2 acres of Dolby III (at the north end) have been closed by daily covering only; that area is expected to receive final cover in 2022 when Phase 2 of the Dolby III cover upgrade project is resumed. The temporary cell on the top of Dolby III remains open; except for the minimal volume disposal projects that involve the temporary cell, no additional waste filling is permitted at the Dolby landfill facility.

3.3 Cover Material Usage

No daily, intermediate, or final cover was placed at the Dolby landfill facility in 2021.

3.4 Operating Manual Revisions

The most recent Operating Manual for the Dolby Landfill was submitted to the MEDEP in April 2012. No changes to the landfill operation or Operating Manual have been made since that time.

A post-closure monitoring and maintenance plan for the Dolby Landfill was submitted to MEDEP in May 2017.

3.5 Environmental Monitoring Plan (EMP) Revisions

The only change to the EMP for the Dolby Landfill in 2021 consisted of adding the leachate pond underdrain manhole to the water quality monitoring locations. The underdrain manhole was added in reaction to the change in leakage rate into the leachate pond's leak detection system. MEDEP was made aware of adding the underdrain manhole to the monitoring list. The underdrain monitoring results are discussed in Section 5.3.

3.6 Spills, Fires, Accidents, and Unusual Events

There were no fires, chemical spills, accidents, or unusual events reported in 2021.

3.7 Cell Development Plans

Essentially all waste placement at the Dolby landfill has ceased and most of the landfill areas have received final cover. No further cell development is expected.

3.8 Hazardous and Special Waste Handling

There was no hazardous or special waste delivered to, or identified at, the Dolby III Landfill in 2021.

3.9 Inspection Summary

Approximately 1/3 of the manholes and catch basins at the Dolby II and Dolby III Landfills are visually inspected on a rotating annual basis. The manhole and catch basin inspection reports for 2021 are included in Appendix A.

Visual inspection of the landfill leachate pond was completed in 2021 and discussion has been presented in Section 2.1. Appendix A includes an inspection report for the leachate pond in 2021.

Following MEDEP guidance, a compliance self-audit checklist for the Dolby III Landfill is completed by DAFS on an annual basis. The completed checklist for 2021 is provided as Appendix I to this report.

3.10 System Failures and Repairs

- Stephens Electric performed inspection of the pump/pump controls associated with the leachate pond in 2021. The results of the inspection showed that leachate pump #1 was beginning to short-circuit and was no longer reliable. Pump #1 was removed for shop repair and was reinstalled in the leachate pump station wet well in January, 2022 (in advance of spring leachate flows).

3.11 Leachate Management

Leachate collected at the Dolby landfill is temporarily stored in the lined leachate pond and then pumped to the Town of East Millinocket's wastewater treatment plant. Approximately 40.9 million gallons of leachate were pumped from the leachate pond to the treatment plant in 2021.

4.0 ENVIRONMENTAL MONITORING

As a condition of the landfill operating permit issued by MEDEP, the quality of the groundwater, surface water, and leachate at the Dolby Landfill is routinely monitored. Gas monitoring for concentrations of explosive gases, i.e., methane (CH₄), and hydrogen sulfide (H₂S) is also conducted at selected landfill locations where explosive or toxic gases could accumulate. The gas monitoring locations include landfill infrastructure such as at the leachate pond pump station, operator shack, leachate collection manholes and near the landfill boundary (i.e., headspace in select monitoring wells).

4.1 Monitoring Locations

Tables 4-1 and 4-2 list the water quality and landfill gas monitoring locations, respectively, and Figures 4-1, 4-2, and 4-3 show the monitoring locations relative to the Dolby Landfill(s) and local landmarks. Table 4-3 presents installation information for each of the monitoring wells that are monitored. Water quality was performed in June and September 2021. Landfill gas monitoring was completed at the same time as the water quality sampling. The monitoring parameters, methods, and standards used for the Dolby Landfill environmental monitoring are summarized in the EMP prepared specifically for the Dolby Landfill facility (SME, 2012). The field and laboratory results for the monitoring events, data validation findings, along with a brief data evaluation, were submitted to the MEDEP project manager and the Environmental and Geographic Analysis Database (EGAD) group following SME's receipt of analytical testing results for each monitoring event.

TABLE 4-1

WATER QUALITY MONITORING LOCATIONS
DOLBY LANDFILL

<u>GROUNDWATER MONITORING WELLS</u>		
<u>DOLBY III</u>		
MW-107A	MW-304A	MW-402A
MW-301	MW-304B	MW-402B
MW-302B	MW-401A	
MW-302C	MW-401B	
<u>DOLBY II</u>		
MW-104B	MW-205B	MW-303B
MW-202AR	MW-206A	
MW-202B	MW-206B	
MW-205A	MW-303A	
<u>DOLBY I</u>		
MW-103	MW-113	
<u>SURFACE WATER SAMPLING LOCATIONS</u>		
PFBF	Partridge Brook Flowage – Background	
PBFR	Partridge Brook Flowage – Revised location beginning 2012	
ND	North Ditch	
SPO	Siltation Pond Outlet	
SPON	Siltation Pond North	
SPOS	Siltation Pond South	
<u>LEACHATE SAMPLING LOCATIONS</u>		
LP	Leachate Pond West of Dolby III	
LPD2	Leachate Pond East of Dolby II	
LDS	Leachate Pond Leak Detection Sump	
UDLP	Leachate Pond Underdrain manhole	

TABLE 4-2

**LANDFILL GAS MONITORING LOCATIONS
DOLBY LANDFILL**

- Operator shack southwest of Dolby III;
 - Dolby III leachate pond pump station control room and sump;
 - MW-107B located southeast of Dolby III; and
- Nine catch basins/manholes around the perimeter of Dolby II and Dolby III.
- | | |
|--------|--------|
| CB #4 | CB #35 |
| CB #6A | CB #39 |
| CB #13 | CB #43 |
| CB #21 | CB #45 |
| CB #22 | |

TABLE 4-3

**MONITORING WELL DETAILS
DOLBY LANDFILL**

Landfill	Sample Location	Geologic Unit Screened	Screened Interval (ft - BGS)		Well Diameter (inches)	Comments
			TOS	BOS		
Dolby I	MW-103	Bedrock	NA	15	1.5	Upgradient well
	MW-113	Bedrock	NA	21.6	1.5	Downgradient well
Dolby II	MW-104B	Bedrock	NA	37	1.25	Upgradient well
	MW-202AR	Bedrock	71.5	81.5	2	Downgradient well
	MW-202B	Till/Bedrock	5.4	10.4	2	Downgradient shallow companion well to MW-202AR
	MW-205A	Bedrock	26	31	2	Downgradient well
	MW-205B	Glacial Till	10	15	2	Downgradient shallow companion well to MW-205A
	MW-206A	Bedrock	23.3	28.3	2	Downgradient well
	MW-206B	Glacial Till	12	17	2	Downgradient shallow companion well to MW-206A
	MW-303A	Bedrock	32.6	42.6	2	Downgradient well
MW-303B	Glacial Till	13.3	23.3	2	Downgradient shallow companion well to MW-303A	
Dolby III	MW-107A	Bedrock	NA	19.6	1.5	Downgradient well from Cells 1 through 8
	MW-301	Glacial Till	10	15	2	Downgradient well from Cells 9 through 16
	MW-302B	Bedrock	18.8	23.8	2	Downgradient well from Cells 9 through 16
	MW-302C	Glacial Till	6	11	2	Downgradient shallow companion well to MW-302A
	MW-304A	Bedrock	NA	21.5	2	Downgradient well from Dolby III leachate pond
	MW-304B	Glacial Till	NA	8.6	2	Downgradient shallow companion well to MW-304A
	MW-401A	Bedrock	30.5	40.5	2	Downgradient well from Cells 1 through 8
	MW-401B	Glacial Till	12.5	22.5	2	Downgradient shallow companion well to MW-401A
	MW-402A	Bedrock	50.2	60.2	2	Cross-gradient well from Cells 3A and 3B
MW-402B	Glacial Till	10	20	2	Cross-gradient shallow companion well to MW-402A	
Abbreviations: NA = not available BOS = bottom of screen TOS = top of screen ft -BGS = feet below ground surface						

4.2 Monitoring Parameters

4.2.1 Water Quality

The 2021 water quality monitoring parameters are listed in Table 4-4. Specific conductance, temperature, pH, dissolved oxygen (DO), and turbidity were measured in the field and were used as stabilization criteria during low-flow sampling. All remaining parameters listed in Table 4-4 were analyzed by Katahdin Analytical Services of Scarborough, Maine for 2021.

4.2.2 Landfill Gas

The landfill gas monitoring program includes the measurement of methane and hydrogen sulfide concentrations. In 2021, the landfill gas measurements were made using a RKI GX2003 portable gas detector (or equivalent) that was designed specifically for use at landfills to monitor landfill gas presence.

4.3 Changes to Environmental Monitoring Program in 2021

The only change to the EMP for the Dolby Landfill in 2021 consisted of adding the leachate pond underdrain manhole to the water quality monitoring locations. The underdrain manhole was added to help evaluate the change in leakage rate into the leachate pond's leak detection system. The underdrain manhole identification is known as UDLP for purposes on the water quality monitoring locations discussed in this annual report.

The EMP describes both the detection and assessment water quality monitoring programs in place for the Dolby Landfill. The detection monitoring program consists of the routine monitoring that is conducted to track ongoing water quality and identify unexpected changes in water quality, whereas the assessment monitoring program is used to evaluate conditions that may have led to or caused detection of unexpected water quality changes. There was no assessment water quality monitoring performed at the Dolby Landfill in 2022.

TABLE 4-4

WATER QUALITY MONITORING PARAMETERS
DOLBY LANDFILL

Detection Monitoring Program Test Parameters:

Parameters	Method	Reporting Limit (mg/L)	Groundwater	Surface Water	Leachate
<u>Field Parameters</u>					
Dissolved Oxygen (D.O.)	Field Parameter	NA	X	X	
Field Observations	Field Parameter	NA	X	X	X
Monitoring Well Pump Rate	Field Parameter	NA	X		
pH	Field Parameter	NA	X	X	X
Turbidity	Field Parameter	NA	X	X	
Specific Conductance	Field Parameter	NA	X	X	X
Static Water Elevations	Field Parameter	NA	X		
Surface Water Flow Rates	Field Parameter	NA		X ⁽¹⁾	
Temperature	Filed Parameter	NA	X	X	X
<u>Indicator Parameters</u>					
Alkalinity	SM 2320B	5.0	X	X	X
Bicarbonate	SM 4500 CO2 D	5.0	X	X	X
Chloride	SM 4500 CL E	2.0	X	X	X
Nitrogen, Ammonia	EPA 350.1	2.0	X	X	X
Nitrogen, Nitrate	EPA 9056/353.2	0.05	X	X	X
Phosphorous, Total	EPA 365.4	0.1		X	X
Sulfate	EPA 9056/ASTM 516-02	1.0	X	X	X
Total Dissolved Solids (TDS)	SM 2540C	10.0	X	X	X
Total Organic Carbon (TOC)	SM5310 B	1.0	X	X	X
Total Suspended Solids (TSS)	SM 2440D	4	X	X	X
<u>Inorganic Parameters</u>					
Arsenic (Total)	EPA 200.7/6010	0.008	X	X	X
Calcium (Total)	EPA 6010B	0.1	X	X	X
Hardness (Mg & Ca)	SM 2340-B	.13	X	X	X
Iron (Total)	EPA 6010B	01	X	X	X
Magnesium (Total)	EPA 6010B	0.1	X	X	X
Manganese (Total)	EPA 6010B	0.005	X	X	X
Potassium (Total)	EPA 6010B	1.0	X	X	X
Sodium (Total)	EPA 6010B	1.0	X	X	X
Aluminum (Total)	EPA 6010B	0.3			X ⁽²⁾
Antimony (Total)	EPA 6010B	0.008			X ⁽²⁾
Barium (Total)	EPA 6010B	0.005			X ⁽²⁾
Beryllium (Total)	EPA 6010B	0.005			X ⁽²⁾
Cadmium (Total)	EPA 6010B	0.005			X ⁽²⁾
Chromium (Total)	EPA 6010B	0.01			X ⁽²⁾

TABLE 4-4 (cont'd)

WATER QUALITY MONITORING PARAMETERS
DOLBY LANDFILL

Assessment Monitoring Program Test Parameters:

Parameters	Method	Reporting Limit (mg/L)	Groundwater	Surface Water	Leachate
<u>Inorganic Parameters</u>					
Cobalt (Total)	EPA 6010B	0.01			X ⁽²⁾
Copper (Total)	EPA 6010B	0.025		X ⁽¹⁾	X ⁽²⁾
Lead (Total)	EPA 6010B	0.005			X ⁽²⁾
Nickel (Total)	EPA 6010B	0.01			X ⁽²⁾
Selenium (Total)	EPA 6010B	0.01			X ⁽²⁾
Silver (Total)	EPA 6010B	0.01			X ⁽²⁾
Thallium (Total)	EPA 6010B	0.015			X ⁽²⁾
Zinc (Total)	EPA 6010B	0.02			X ⁽²⁾
<u>Organic Parameters</u>					
Volatile Petroleum Hydrocarbons (VPH)	MADEP VPH Method	3.0 to 100 µg/L	X ⁽³⁾		X ⁽²⁾
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH Method	2.0 to 1000 µg/L	X ⁽³⁾		X ⁽²⁾
<p><u>Notes:</u></p> <p>¹ Only measured at PBFR (Partridge Brook Flowage).</p> <p>² The leachate pond (LP) is sampled for the detection monitoring parameters every monitoring event and sampled for assessment parameters once a year (as per Chapter 405 leachate sampling requirements). The leachate pond (LP) was also sampled for VPH and EPH during all three monitoring events in 2021.</p> <p>³ Monitoring wells MW-301, MW-302B, and MW-302C are sampled for VPH and EPH once a year (fall).</p> <p><u>Abbreviations:</u> NA = Not Applicable</p>					



AERIAL PHOTO DATED JULY 8, 2008

LEGEND

- GROUNDWATER WELLS
- SURFACE WATER SITES



FIGURE 4-1
WATER QUALITY
MONITORING LOCATIONS
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE



\\inserv1\CF-S\kpc\Do\ACAD\WaterSampleSites\Aerial-2008.dwg, 4/16/2019 10:58:25 AM, jrl



AERIAL PHOTO DATED JULY 8, 2008

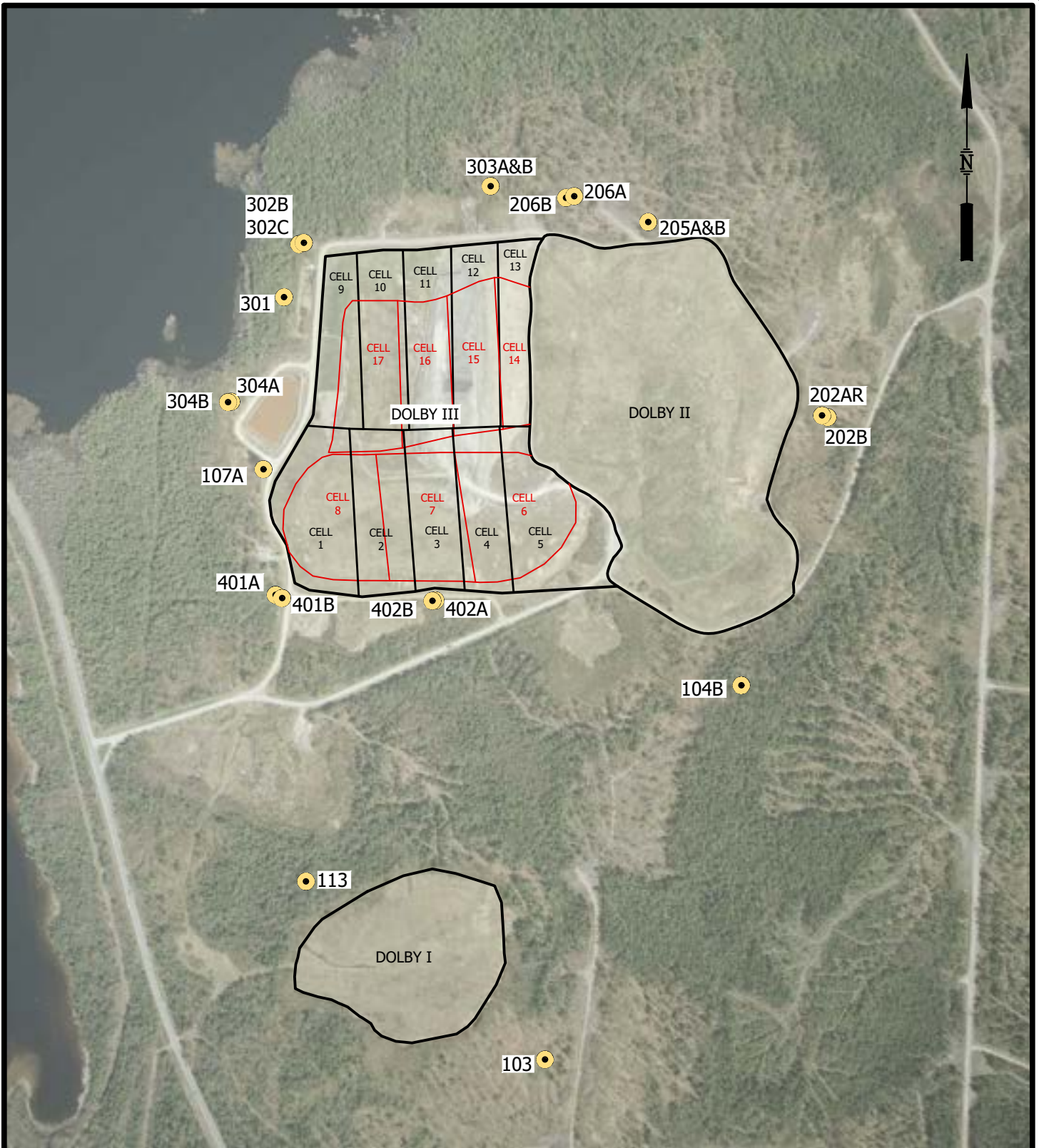


LEGEND

- SAMPLE LOCATIONS
- EXISTING MANHOLE/CATCH BASIN
- FLOW DIRECTION OF LEACHATE COLLECTION SYSTEM

**FIGURE 4-2
LANDFILL GAS
MONITORING LOCATIONS
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE**





LEGEND

-  GROUNDWATER WELLS

FIGURE 4-3
CELL LAYOUT AND MONITORING
WELL LOCATIONS
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE



5.0 WATER QUALITY EVALUATION

Water quality at the Dolby Landfill has been monitored since 1982. Summary tables of the historical water quality including the 2021 monitoring data are presented in Appendix J and Figure 4-1 shows the water quality monitoring locations. Detailed summaries of the data by monitoring location are shown on the well evaluation data summary sheets presented in Appendix K. The data summary sheets include measured concentrations for selected water quality parameters analyzed for the 2021 monitoring period, along with the mean and range of the historical record for those same parameters. Also identified on the data summary sheets are the 2021 parameter values that exceeded a historical minimum or maximum concentration value, as well as values that exceed applicable State or Federal water quality guidelines or standards. The historical maximum and minimum values measured this year are summarized on Table 5-1.

The groundwater data for 2021 was evaluated on a well-by-well basis by comparison to Federal and State of Maine drinking water standards and guidelines (i.e., Federal Maximum Contaminant Levels [MCLs], State of Maine Maximum Exposure Guidelines [MEGs], and MEDEP Remedial Action Guidelines – Groundwater Residential [RAG-GwR]). Surface water results were compared to the State of Maine Freshwater Criterion Continuous Concentration (MFCCC) Standards. Parameters reported as exceeding one or more of these guidelines/standards are summarized on Table 5-2. Additionally, the 2021 water quality samples were evaluated to determine if there were notable changes in concentrations of chemical parameters when compared to historical data.

As part of the water quality data evaluation, box and whisker plots were developed for selected parameters at each monitoring point. The annual range, median, and quartiles for each analytical parameter are shown on the box and whisker plots in Appendix K. These plots provide a useful means to visually depict annual and seasonal variations in the data and help show visual data trends over the entire sampling record. Visual evaluation of possible water quality trends (including the 2021 data) was aided by superimposing a Fast Fourier Transform (FFT) regression of the annual median concentration values of each parameter's dataset reaching back to monitoring completed in year 2000. A plot of the FFT regression accompanies the box and whisker plots in Appendix K.

Mann-Kendall (M-K) trend analyses (using a 95 percent confidence level) were run as needed to provide further analysis when current trends in the data were difficult to verify visually. Appendix L presents the results of the M-K analyses.

An interpretation of the water quality data is presented in Sections 5.1, 5.2, and 5.3. Monitoring locations not specifically discussed in those sections exhibited data that were generally consistent with previous years and showed no apparent degradation trends and no notable occurrences of high parameter values. The information presented in the following sections is grouped by well location relative to the general directions of groundwater flow at the landfill site.

TABLE 5-1

HISTORICAL HIGH AND LOW PARAMETER VALUES
DOLBY LANDFILL

	Specific Conductance	Dissolved Oxygen	Dissolved Solids	Calcium	Alkalinity	Hardness	Bicarbonate	Sodium	Iron	Magnesium	Potassium	Sulfate
BACKGROUND												
MW-104B					Fall – High		Fall - High		Fall - High	Fall - High		
DOLBY I UPGRADIENT												
MW-103	Spring - High											
DOLBY II DOWNGRADIENT EAST												
MW-202AR			Fall - Low					Fall - Low				
DOLBY II DOWNGRADIENT NORTH												
MW-205A	Spring & Fall - Low			Fall – Low								
MW-206B				Spring - High								
DOLBY II AND III DOWNGRADIENT NORTH												
MW-303A	Fall - Low											
MW-303B									Fall - High			
DOLBY III SIDEGRADIENT SOUTH												
MW-402A				Spring - High		Spring - High		Spring & Fall - High	Spring - High	Fall - High		
MW-402B	Spring - L								Spring - High	Fall - High		
DOLBY III DOWNGRADIENT NORTHWEST												
MW-302B						Fall – High		Fall - High				
MW-302C			Spring – High	Spring – High	Spring - High	Spring &	Spring - High	Spring &		Spring & Fall - High		

						Fall - High		Fall - High				
DOLBY III AND LEACHATE POND DOWNGRADIENT EAST												
MW-304A			Spring – Low									
MW-304B		Fall – Low	Fall - High									
SURFACE WATER BACKGROUND												
PFBF	Fall - Low											
SURFACE WATER SEDIMENT POND OUTLETS												
SPON											Fall - Low	
SPOS												Fall - High
<p><u>Abbreviations:</u> Spring sampling event - June 21-23, 2021 Fall sampling event - September 20-23, 2021 High – Historical high parameter value measured Low – Historical low parameter value measured</p>												

TABLE 5-2

SUMMARY OF PARAMETER EXCEEDANCES
DOLBY LANDFILL

Downgradient Wells		Arsenic	Manganese	Sodium	Iron	Ammonia
Applicable Standards						
MEG-16		0.01	0.3	20	5	30
RAGG-wR		0.00052	0.43	-	14	
DOLBY II DOWNGRADIENT EAST						
MW-202AR	Spring		14.1	23		
	Fall	0.012	14.7	20.7		
DOLBY II SIDEGRADIENT NORTH						
MW-205A	Spring			21.9		
	Fall		0.785	20.3		
MW-205B	Spring		0.443			
MW-206A	Spring	0.27	3.85	33.6	42.8	35
	Fall	0.307	4.37	41.8	46.6	41
DOLBY II AND III DOWNGRADIENT NORTH						
MW-303A	Spring		7.27			
	Fall		8.56			
MW-303B	Spring		5.06			
	Fall		9.45			
DOLBY III SIDEGRADIENT SOUTH						
MW-402B	Spring		2.31	24.3		
	Fall		1.83	24.8		
DOLBY III DOWNGRADIENT SOUTHWEST						
MW-107A	Spring		14.1	39.5		
	Fall		26	55.4		
MW-401A	Spring	0.138				
	Fall	0.142				
MW-401B	Fall		0.416			
DOLBY III DOWNGRADIENT NORTHWEST						
MW-301	Spring		0.685	77.6		
	Fall		0.55	77.8		
MW-302B	Spring		38.4	64.3		
	Fall		38.4	69.7		
MW-302C	Spring		60	77.6		
	Fall		52	69.4		
SURFACE WATER SEDIMENT POND OUTLETS						
SPON	Fall				3.59	
SPOS	Spring				2.84	
	Fall				1.25	
<p>Abbreviations: Spring sampling event - June 21-23, 2021 Fall sampling event - September 20-23, 2021</p> <p>MEG – Maine Center for Disease Control Maximum Exposure Guidelines RAGG-wR - Remedial Action Guidelines - Groundwater Residential</p>						

5.1 Groundwater Quality

5.1.1 Upgradient Monitoring Well

MW-104B

- Monitoring well MW-104B monitors bedrock water quality to the south of the Dolby II Landfill. This monitoring well is located approximately 400 feet from the Dolby II perimeter and is not considered to be influenced by any of the Dolby Landfills based on the interpreted directions of groundwater flow.
- Water quality data was generally consistent with historical data for this location except for iron, which was 1.01 mg/L compared to a previous historical high of 0.329 mg/L. No distinct upward or downward data trends have been identified at this location.

5.1.2 Dolby I

Monitoring wells MW-103 and MW-113 monitor bedrock groundwater quality upgradient and downgradient of the Dolby I Landfill, respectively. Dolby I Landfill has been closed for more than 30 years and has been removed from the EMP.² To supplement the water quality monitoring for the overall Dolby Landfill site, field parameters are monitored at MW-103 and MW-113. Notable observations in the 2021 water quality include:

MW-103

- Upgradient well MW-103 yielded an insufficient quantity of water to collect a sample during the fall monitoring event. Specific conductance at well MW-103 has been trending upward beginning in 2019 but is still approximately an order of magnitude lower than specific conductance in downgradient well MW-113.

MW-113

- At downgradient well MW-113, the 2021 water quality specific conductance data suggests a slow improvement since the 1980s.

5.1.3 Dolby II

As shown on Figure 1-2, there is an apparent groundwater divide located beneath the Dolby II Landfill, with groundwater traveling both to the watersheds east and west of the Dolby II and Dolby III Landfill sites. Eight monitoring wells positioned around the Dolby II Landfill perimeter were sampled for water quality in 2021, including monitoring wells MW-202AR, MW-202B, MW-205A, MW-205B, MW-206A, MW-206B, MW-303A, and MW-303B. These monitoring wells provide spatially distributed data along the

² MW-103 and MW-113 were not included in the 2011 Environmental Monitoring Program (as per Section 3.5 of the 2010 Annual Report).

northern and eastern borders of the Dolby II Landfill. The “A” designated wells monitor groundwater quality in the bedrock, while the “B” designated wells monitor groundwater quality in the soil overburden (i.e., glacial till).

5.1.3.1 Side-Gradient Monitoring Wells – North of Dolby II

Monitoring well pairs MW-205A, MW-205B, MW-206A, and MW-206B, monitor northwesterly groundwater flow near the northern boundary of the Dolby II Landfill. While these wells appear to be hydraulically sidegradient from the landfill, they exhibit parameter concentrations that are characteristic of groundwater conditions downgradient of an unlined landfill, suggesting that there is a component of groundwater flow outward from the landfill towards these two well pairs. Both of the shallow wells show less impact than the deep wells, suggesting improving groundwater conditions that may, over time, also occur in the deeper groundwater. Notable observations in the 2021 water quality at these locations include:

MW-205A

- Monitoring well MW-205A shows elevated concentrations of specific conductance, several metals, and inorganic parameters as compared to upgradient monitoring well MW-104B. Slightly decreasing trends are apparent in MW-205A for specific conductance, sulfate, TDS, pH, alkalinity, hardness, bicarbonate, iron magnesium, potassium, and chloride beginning in 2003 to 2009.

MW-205B

- At MW-205B, historically decreasing trends for specific conductance, calcium, magnesium, sodium, total dissolved solids (TDS), hardness, bicarbonate, chloride, iron, magnesium, and alkalinity have flattened. Sulfate continued to decrease at MW-205B in 2021.

MW-206A

- Monitoring well MW-206A shows elevated concentrations of specific conductance, metals, and inorganic parameters as compared to upgradient monitoring well MW-104B. The increasing concentration trends during 2015 and 2016 for alkalinity, ammonia, arsenic, bicarbonate, calcium, hardness, iron, magnesium, manganese, potassium, specific conductance, sodium, TDS, and TSS appear to have been flattening over recent years.
- Chloride, magnesium, and sulfate have lowered since 2003 to 2009 and remain at the lower levels. Some parameters including hardness, bicarbonate, iron, magnesium, potassium, and ammonia appear to show a slight increase on the box and whisker plots but are not increasing at statistically significant levels.

MW-206B

- Parameter concentrations measured at this location show minimal landfill influence when compared to the same parameters in the deeper companion wells, i.e., MW-206A. No adverse trends in water quality were apparent at MW-206B.

5.1.3.1 Downgradient Monitoring Wells

5.1.3.2.1 East of Dolby II

Monitoring wells MW-202AR and MW-202B are interpreted to represent groundwater flow downslope (easterly) of the Dolby II Landfill. Monitoring well MW-202AR replaced former well MW-202A in 1994. Notable observations in the 2021 water quality at these locations include:

MW-202AR

- Parameter concentrations at this location are characteristic of groundwater conditions downgradient of an unlined landfill and exhibit elevated concentrations of specific conductance, metals, and inorganic parameters as compared to upgradient well MW-104B. Slightly decreasing trends are apparent in MW-202AR for specific conductance, ammonia, and chloride over the last five years. No other clearly visible trends were identified for MW-202AR in 2021.

MW-202B

- The parameter concentrations historically measured at MW-202B show similar patterns to those apparent at MW-202AR, but at generally lower concentrations and with more time related variability. Samples have not been collected at MW-202B since 2020 because the well was damaged the previous winter. MW-202B was replaced with MW-202BR on July 30, 2022; Appendix B provides the well replacement details. MW-202BR was included in the Fall 2021 water quality monitoring.

5.1.3.2.2 North of Dolby II and III

MW-303A

Well pair MW-303A and MW-303B are located sidegradient of Dolby III and downgradient of Dolby II.

- Comparison of the 2021 water quality data in MW-303A with MW-303B indicates that similar chemical conditions exist in the bedrock and overburden groundwater at those monitoring locations. Parameter concentrations at both MW-303A and MW-303B show elevated concentrations for specific conductance, metals, inorganic and organic parameters as compared to upgradient monitoring well MW-104B suggesting influence from the landfill. The overburden groundwater quality in companion well MW-303B exhibits greater seasonal variation than apparent in the bedrock.

- Decreasing concentration trends for multiple parameters in MW-303A continued to slow or flatten in 2021.

MW-303B

- More seasonal variation has been observed over the monitoring record for parameters including specific conductance, calcium, magnesium, hardness, sodium, total organic carbon (TOC), alkalinity, hardness, and bicarbonate at MW-303B than at MW-303A or the background well, MW-104B.
- Parameter concentrations at MW-303B during 2021 were generally consistent with historical concentrations. Decreasing concentration trends for multiple parameters continued to slow or flatten in 2021. Ammonia concentrations have increased slightly over the last three to five years at MW-303B.

5.1.4 Dolby III

Ten monitoring wells near the perimeter of the Dolby III Landfill were sampled in 2021. Figure 4-3 shows the location of the monitoring wells relative to the individual cells that comprise Dolby III. Two monitoring wells (MW-402A and MW-402B) are located sidegradient of the landfill near the southern border of Dolby III. Monitoring wells MW-107A, MW-401A, and MW-401B are positioned downgradient along the western perimeter of the Dolby III Landfill. Three monitoring wells (MW-301, MW-302B, and MW-302C) are located downgradient and adjacent to the northwestern corner of Dolby III. Monitoring wells MW-304A and MW-304B are located near the northwest side of the Dolby III Landfill leachate pond and downgradient of the landfill. Because the Dolby III Landfill is immediately adjacent to, and downslope of the Dolby II Landfill, monitoring well MW-104B is considered the background monitoring well for both Dolby II and Dolby III.

5.1.4.1 South of Dolby III – Sidegradient Monitoring Wells

Monitoring well pair MW-402A and MW-402B monitor bedrock and overburden groundwater quality, respectively, sidegradient of Dolby III Cell 3. Notable observations in the 2021 water quality include:

MW-402A

- At MW-402A, upward trends are observable in the testing results for specific conductance, calcium, manganese, hardness, chloride, and magnesium beginning in 2000 to 2013. Parameter concentrations suggest limited groundwater degradation may be occurring. In 2021, there were six historically high concentrations for various parameters in MW-402A, but the levels were only very slightly higher than the previously measured highs for that well. Chloride, specific conductance, and sulfate concentrations have leveled off or decreased over the last several years.

MW-402B

- In contrast to MW-402A, specific conductance, sodium, total dissolved solids, and chloride have decreased at MW-402B over the last five years and most other parameter concentrations have leveled over the last several years.

5.1.4.2 Downgradient Monitoring Wells

Monitoring wells MW-107A, MW-401A, and MW-401B are downgradient wells on the southwest corner of Dolby III. MW-107A and MW-401A are screened in bedrock, while the MW-401B well is screened in overburden.

5.1.4.2.1 Southwest of Dolby III

MW-107A

- At MW-107A, parameter concentrations during 2021 were generally consistent with historical concentrations for this location.
- Ammonia and potassium begin increasing in 2016 but appear to be leveling off.
- At MW-107A, parameters including specific conductance, TDS, alkalinity, hardness, bicarbonate, sodium, and magnesium lowered from approximately 2001 to 2007, but have begun to rise slowly since about 2011. The parameter concentrations are still well below the previous historically high levels, but MW-107A is one of the more impacted wells at the site.

MW-401A

- At MW-401A, parameter concentrations were generally consistent with historical data at this location. Magnesium, potassium, alkalinity, bicarbonate, and hardness appear to be trending slightly upward over the last five years. This is corroborated by the 5-year Mann Kendall analysis for this well. Chloride concentrations have decreased over the last five years in MW-401A. Arsenic was measured above its MEG and MCL (0.01 mg/L) for each of the 2021 monitoring events but appears to be generally decreasing. MW-401A shows less impact than the other wells on the west side of Dolby III.

MW-401B

- Consistent with MW-401A, magnesium, alkalinity, and bicarbonate have increased over the last five years at MW-401B. Calcium has also shown increases over the last five year. Chloride and sulfate have steadily decreased at MW-401B over the last fifteen years. MW-401B shows generally higher levels than MW-401A.

5.1.4.2.2 Northwest of Dolby III

Three monitoring wells are positioned downgradient of Dolby III's northeast corner. Monitoring well MW-301 is screened in overburden, while monitoring wells MW-302B and MW-302C are screened in the bedrock and overburden, respectively.

MW-301

- At MW-301, generally steady increases in specific conductance, calcium, hardness, chloride, potassium, magnesium, TOC, sodium, TDS, bicarbonate, and alkalinity have been measured beginning in 2000. All of these parameters appeared to have leveled off, or in some cases decreased beginning between 2015 and 2019.
- MW-301 shows more water quality impact than most of the other wells at the site.
- Volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) analyses were performed on samples obtained from MW-301 for the fall 2021 monitoring event; no VPH or EPH constituents were detected above the laboratory reporting limits.

MW-302B AND MW-302C

- At MW-302B and MW-302C, bicarbonate, alkalinity, TDS, magnesium, manganese, potassium, sodium, hardness, and total organic carbon have been increasing since 2000. Specific conductance and chloride increased from 2000 to approximately 2016 to 2019 and appear to be gradually flattening. Ammonia has increased at MW-302B and MW-302C since 2015. Sulfate concentrations have decreased at MW-302B and MW-302C since 2005.
- The most apparent influence from Dolby III is seen at the MW-302 pair, along with MW-107A and MW-301.
- VPH and EPH analyses were performed on samples obtained from MW-302B and MW-302C during the fall 2021 monitoring event; no VPH or EPH constituents were detected above the laboratory reporting limits.

5.1.4.2.3 East of Dolby III and the Leachate Pond

Monitoring well pair MW-304A and MW-304B are screened in the bedrock and overburden, respectively, and are downgradient of the Dolby III leachate pond. Both wells have exhibited similar improving trends in groundwater quality over their monitoring record. The improving trends are likely related to improvements made to the leachate pond. In 2005 the leachate pond underdrain outlet was redirected from discharging to the native ground surface to being collected and pumped to the leachate pond. In 2007, the leachate pond was reconstructed to include a double-geosynthetic liner system with leak detection. The MW-304 well pair is located between MW-301 and MW-107A, but generally shows much lower parameter concentrations by comparison.

MW-304A

- Decreasing trends were observed for several parameters since 2005, including specific conductance, calcium chloride, bicarbonate, and alkalinity, but have begun to level off over the last two years.

MW-304B

- With the exception of increases in manganese and iron over recent years, most parameter concentrations appear to be leveling off at MW-304B, although since approximately 2019, concentrations appear to be increasing slightly for alkalinity, hardness, bicarbonate, sodium, calcium, manganese, iron and magnesium.

5.2 Surface Water Quality

Surface water quality sample locations are shown on Figure 4-1. Partridge Brook Flowage is sampled at two locations (PBFB and PBFR) as part of the Dolby Landfill EMP. PBFB is the background location for the flowage and is positioned approximately 1,000 feet northwest of the leachate pond, on the opposite side of the flowage. PBFR is located on the landfill side of the flowage and downgradient of the leachate pond. PBFR is a replacement location for the former PBF location, which was sampled for the last time in 2011. PBF was located near the former discharge location for the leachate pond's underdrain.

After flow from the leachate pond underdrain was redirected into the leachate pond pump station, MEDEP requested sampling at PBFR instead of PBF. PBFR is located downstream of the former PBF location and is positioned to reflect potential runoff contributions to the flowage from the landfill's Sediment Pond #2.

Three sediment ponds (Sediment Ponds #1, #2, and #3) are positioned downslope of the Dolby III Landfill (see Figure 4-1). Sediment Ponds #1 and #3 are located near the southwest and northeast corners of the landfill, respectively. Sediment Pond #2 is located immediately south of the leachate pond. Surface water monitoring is performed at the outlet points for each pond. The surface water sample location designations are SPOS (Sediment Pond Outlet South – Sediment Pond #1), SPO (Sediment Pond Outlet – Sediment Pond #2), and SPON (Sediment Pond Outlet North – Sediment Pond #3).

The ditch to the northwest of the landfill (surface water sample point ND) has historically been dry and remained so for the two monitoring events in 2021, as was SPO. SPON was only sampled during the summer 2021 monitoring event due to insufficient water for sample collection during the spring. Surface water at the SPOS was sampled for both monitoring events.

- PBFB is background surface water and is not affected by the landfill.

- As part of the Dolby EMP, copper is analyzed at the PBFR location. Copper was not detected above the laboratory reporting limit for either monitoring event in 2021.
- Surface water sample location SPO has been periodically dry since monitoring began at that location in 1991. Similar to the three-year period including 2016 through 2018, SPO was dry during all monitoring events in 2020 and 2021.
- Parameter concentrations for SPON and SPOS have remained relatively stable since monitoring was initiated at those locations. SPON was only sampled during the summer 2021 monitoring event due to insufficient water in the spring. Magnesium, manganese, potassium, calcium, sulfate, hardness, sodium, alkalinity, total dissolved solids, and chloride concentrations decreased over the last three years at SPON. No other increasing or decreasing trends were observed at SPON during 2021.
- Sample location ND was not sampled in 2021 due to dry conditions during each of the monitoring events. ND has had sufficient water to sample during only five sampling events in the last twenty years.

5.3 Leachate and Underdrain Quality

Three leachate sources are sampled at the Dolby Landfill: the Dolby II Leachate Pond (LPD2); the Dolby III Leachate Pond (LP); and the Leak Detection Sump (LDS), which is associated with the Dolby III Leachate Pond.

- No detectable VPH or EPH compounds were reported for the leachate samples tested.
- The leachate shows a reduction over time in specific conductance, TDS, arsenic, calcium, manganese, alkalinity, hardness, bicarbonate, chloride, sodium, magnesium, potassium, and TOC with many parameters appearing to level off in recent years.
- Comparison of the parameter concentrations of LDS with those for the leachate pond (i.e., LP) show similarity in terms of detectable constituents and is suggestive of a possible leak in the primary liner of the leachate pond. In 2021 the leachate pond was drained and the liner was cleaned of sediment then visually inspected for possible leak points (see Section 2.1). Water quality measured in the leak detection system continues to resemble the leachate quality.
- In 2021 water quality monitoring in the leachate pond underdrain manhole was added to the water quality monitoring program. The underdrain designation is UDLP. Overburden monitoring well MW-304B is located close to and downgradient of the leachate pond underdrain and hydraulic gradients in the groundwater on the west side of Dolby III indicate the groundwater is likely discharging upward into the leachate pond's underdrain

system. The proximity of MW-304B to the underdrain suggests water quality at those two locations should be similar. In 2021 specific conductance measured in MW-304B was reported as 146 and 211 $\mu\text{mhos/cm}$ for the spring and fall sampling events, respectively, whereas the specific conductance for UDLP was reported as 788 and 538 $\mu\text{mhos/cm}$ for those same events. Based on comparison of the specific conductance for the two monitoring locations (i.e., MW-304B and UDLP) it appears the underdrain may be influenced by leachate.

- Monitoring location LPD2 is representative of the water in the Dolby II leachate pond located on the eastern side of Dolby II. Water quality data from LPD2 in 2021 was generally within the historical concentration range for that location. Concentrations of most parameters analyzed historically at LPD2 typically show seasonal variations. No increasing or decreasing trends were observed at LPD2 during 2021.

5.4 Data Validation and Quality Control (QC)/Quality Assurance (QA)

Data validation and QC/QA are an integral part of the Dolby Landfill water quality monitoring and are necessary to allow assessment of the adequacy of analytical results for their intended use. Field QC/QA activities associated with the water quality sampling for the Dolby Landfill include utilization of standardized sample collection procedures and data recording, calibration of field instruments, and use of chain-of-custody procedures. Analytical QC/QA involves the use of approved analytical protocols by qualified laboratories. Assessment of analytical data quality is performed through review of method-specified quality control data that is delivered with the analytical results. The EMP for Dolby summarizes the sampling procedures and analytical techniques, as well as the QC/QA methods used for the groundwater and surface water monitoring program at the Dolby Landfill in 2021.

Data validation documentation for the Dolby Landfill in 2021 has been previously submitted to MEDEP as part of the data submittals for each of the 2021 monitoring events. The following data validation protocols, as described in the MEDEP Maine SWMRs Chapter 405, were previously submitted to MEDEP to verify the accuracy and precision of the reported results:

- Verification of continuous chain-of-custody for each sample;
- Verification that sample holding times were met;
- Evaluation of duplicate analysis performance;
- Calculation of the ratio of total dissolved solids to specific conductance;
- Comparison of current data with historical data and identification of anomalous results;
- Identification of any parameter in field equipment blanks; and
- Well depth measurements.

6.0 EVALUATION OF LANDFILL GAS MONITORING DATA

Landfill gas concentrations were measured in 2021 at locations where landfill gas may collect and pose a potential threat to health or safety. The landfill gas-monitoring program includes measurement of methane and hydrogen sulfide concentrations in potential landfill gas accumulation areas such as the leachate pond pump station, leachate collection manholes and beyond the landfill boundary (i.e., in monitoring wells). Two landfill gas monitoring events were performed in 2021 and the results of that monitoring are presented as Appendix M. A RKI GX2003 portable gas detector (or an equivalent instrument) was used to measure methane and hydrogen sulfide concentrations. Existing landfill gas monitoring locations at the landfill include the following:

- The operator shack, which is located southwest of Dolby III;
- The Dolby III leachate pond pump station control room and wet well;
- Monitoring well MW-107B, which is located southeast of Dolby III; and
- Nine manholes/catch basins located around the perimeter of Dolby II and Dolby III.

The landfill gas monitoring locations are shown on Figure 4-2.

6.1 Operator Shack

Landfill gas monitoring inside the operator shack is conducted to check the breathing zone relative to the health and safety of landfill personnel using that space. During 2021, landfill gas concentrations measured inside the operator shack were below the monitoring instrument's detection limits.

6.2 Dolby III Leachate Pond Pump Station

During 2021, landfill gas concentrations measured in the leachate pump station control room and associated wet well were below the monitoring instrument's detection limits. It should be noted that the wet well is designated as a confined space; therefore, all human activities in the wet well must follow confined space entry procedures.

6.3 Monitoring Well MW-107B

Landfill gas readings have been taken in the wellbore at MW-107B since May 2002. During 2021, methane and hydrogen sulfide concentrations in MW-107B were below the monitoring instrument's detection limits.

6.4 Manholes/Catch Basins

During 2021, landfill gas readings were taken at nine manholes/catch basins positioned around the Dolby II and Dolby III Landfills.

The two 2021 gas monitoring events provided the following overall maximum methane levels (methane equivalent, percent by volume) and maximum hydrogen sulfide levels (parts per million [ppm]) measurements:

- CB #4 – 12 percent methane;
- CB #21 – <0.15 percent methane; and
- CB #43 – 9 percent methane.

Methane was below detection limits at CB #6A, CB #13, CB #22, CB #35, CB #39, and CB #45. Hydrogen sulfide was below detection limits in all of the catch basins.

From a health and safety perspective, the manholes/catch basins can only be accessed using confined space entry procedures. If any work is to be completed near or within the structures, air monitoring will be implemented as required by applicable rules/regulations.

7.0 WASTE STREAMS DELIVERED TO LANDFILL

Approximately 416 cubic yards of solid waste were delivered to the Dolby III Landfill in 2021. Table 7-1 summarizes the quantities delivered by waste stream.

**TABLE 7-1
2021 WASTE DISPOSAL SUMMARY
DOLBY LANDFILL**

Month	Ash ¹	Misc. Waste ²
January		0
February		0
March		0
April		0
May		0
June		0
July		0
August		5
September	411	0
October		0
November		0
December		0
Total (CY)		0
Cumulative Total (CY)	416	
<p>Notes:</p> <p>¹ Ash from Millinocket transfer station, East Millinocket transfer station, and Medway transfer station.</p> <p>² Waste materials from landfill leachate pond and pipeline cleaning (sediment, gloves, rags, piping, etc.).</p>		

8.0 FINANCIAL ASSURANCE

According to 06-096 CMR 400(11), the State of Maine is not required to provide financial assurance for closure and post-closure care of the Dolby Landfill facility. The DAFS has the authority to seek legislative appropriations, as necessary, to fund anticipated operation and maintenance of the Dolby Landfill facility when needed.

9.0 SUMMARY

Approximately 416 cubic yards of waste were placed in the Dolby III Landfill in 2021.

Approximately 10,400 feet of leachate transport pipeline were cleaned in August 2021. The pumping flow rates before and after the pipeline cleaning were measured and showed restoration to the design pumping flow rate of approximately 600 gallons per minute.

Review of the 2021 water quality data from Dolby I, Dolby II, and Dolby III indicates that ground and surface water quality at the site remains generally consistent with that reported in previous years with minimal, if any, increased degradation apparent.

The following observations are offered relative to site water quality and landfill operation for 2021:

- Groundwater monitored hydraulically downgradient of the Dolby Landfills to the north, east, and west, generally exhibited higher parameter concentrations than those found at the upgradient groundwater monitoring location for the Dolby Landfill facility.
- Surface water quality downgradient of the leachate pond continues to show general improvement since relining of the leachate pond in 2007 and collection of groundwater resulting from the leachate pond underdrain system.

In 2021, the leachate pond and groundwater from monitoring wells MW-301, MW-302B, and MW-302C were analyzed for VPHs and EPHs. No VPHs or EPHs were detected in monitoring wells MW-301, MW-302B, MW-302C, or in the leachate for 2021.

MEDEP primary drinking water standards (i.e., MCLs and MEGs) were exceeded in several of the groundwater monitoring wells one or more times in 2021. Arsenic exceeded its respective MCL and MEG at three monitoring well locations. Iron exceeded its respective MEG in two monitoring wells; manganese exceeded its MEG in 12 monitoring wells; and sodium exceeded its MEG at eight monitoring wells. Manganese have historically been present in the site groundwater, including in the upgradient monitoring well for the Dolby Landfill facility. The MFCCC was not exceeded at any of the four surface water monitoring locations. Overall, the impact from the Dolby Landfills on the surrounding water quality is considered to pose a minimal threat to public health.

10.0 RECOMMENDATIONS AND PLANNED OPERATIONAL ADJUSTMENTS FOR 2022

The Dolby Landfill has been closed to receiving residuals from pulp and paper making and other mill-related wastes since 2011. The Dolby I and II Landfills were closed many years ago using soil covers and all but 4.5 acres of the Dolby III Landfill have received various forms of final cover. Approximately 2 acres of the Dolby III Landfill (on the north end) were closed in 2011 with daily cover and approximately 2.5 acres of the Dolby III Landfill (on the south end) were opened as a temporary cell for lagoon sludge disposal (from East Millinocket) in 2018. The daily cover area and the temporary cell are planned for closure when the next phase(s) of cover upgrade are implemented for Dolby III. In the interim, the temporary cell is expected to receive (1) small volumes of wood ash from several nearby municipal owned solid waste transfer stations and (2) small volumes of sediment and disposables from the periodic cleaning of the Dolby III leachate pond and the leachate transport pipeline.

As discussed in Section 2.1, water quality measurements for the leak detection system associated with the Dolby III leachate pond suggest a leak has occurred in either the primary or secondary liner(s) for the pond. Both liners consist of high-density polyethylene (HDPE) geomembranes and include booted pipeline penetrations for moving leachate into and out of the leachate pond. In 2021 the entire surface of the primary liner was cleaned and visually inspected, and a dye test was conducted using the leak detection layer as the dye source. No leaks in the primary liner were visually identified and no dye coloration was observed in the leachate pond or in the water pumped from the leachate pond's underdrain, suggesting no apparent leaks. The leachate pond cleaning included visual inspection of the pipe boots attached to the primary liner as well as re-caulking and re-banding the pipe boots to the pipelines passing through the boots. The leachate pond cleaning, inspection, and maintenance activities completed in 2021 however made no appreciable reduction of flow into the leak detection system. To address this condition the leachate pond underdrain system will continue to be pumped to the leachate pond pump station where the underdrain flow will be handled as leachate.

In 2021 the leachate pond underdrain was added to the water quality monitoring program for the landfill. It is recommended that water quality of the water in the underdrain manhole be added to the long-term water quality monitoring program for the landfill.

REFERENCES

- E.C. Jordan Co., 1985. Test Pit Observations, Sludge Landfill, East Millinocket, Maine, June 1985.
- E.C. Jordan Co., 1984. Dolby III Landfill Permit Application.
- E.C. Jordan Co., 1981. Geohydrologic Study of the Dolby Landfill Sites, November 1981.
- E.C. Jordan Co., 1978. Preliminary Subsurface Investigation, Sludge Landfill Expansion – East Millinocket, Maine, March 21, 1978.
- E.C. Jordan Co., 1975. Proposed Bleach Kraft Pulp Mill, Great Northern Paper Company, Millinocket, Maine – Geotechnical Investigation.
- Sevee & Maher Engineers, Inc., 1989. Application for License Renewal, Dolby III Landfill, Great Northern Paper Company Millinocket, Maine.
- Sevee & Maher Engineers, Inc., 2011. Operating Manual for Dolby III Landfill, East Millinocket, Maine (revised April 2011).
- Sevee & Maher Engineers, Inc., 2012. Environmental Monitoring Plan, Dolby Landfill (revised April 2012).

APPENDIX A

LANDFILL INSPECTION REPORTS

**DOLBY LANDFILL
CONCRETE MANHOLE INSPECTION FORM**

Manhole / Catch Basin No: CB #32

Landfill Location: Dolby III – Northeast Corner

Date: 4/26/2021 Time: 09:41

Weather: Overcast, 35-40°, Light Rain/Snow Inspected by: DPW

Date of last inspection: 10/30/2018

Exterior Condition (Comments): Good

Cracks: None

Holes: None

Flaking: None

Seeps: None

Other: None

Interior Condition (Comments): Good

Cracks: _____

Holes: None

Flaking: Some at bottom (1/4" to 1/2")

Seeps: None

Other: None - Flow from all pipes; most from north side.

Corrective Action required (Y/N): None

Date and Details of Corrective Actions (if needed): None

Attachments: Photos

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



CB #32 Interior



CB #32 Exterior

**DOLBY LANDFILL
CONCRETE MANHOLE INSPECTION FORM**

Manhole / Catch Basin No: CB #33

Landfill Location: Dolby III, North Side

Date: 4/26/2021 Time: 09:55

Weather: Overcast, 35-40°, Light Rain/Snow Inspected by: DPW

Date of last inspection: 10/26/2017

Exterior Condition (Comments): Good

Cracks: None

Holes: None

Flaking: None

Seeps: None

Other: None

Interior Condition (Comments): Fair

Cracks: None

Holes: None

Flaking: Yes, Less than 1-inch

Seeps: None

Other: None

Corrective Action required (Y/N): None

Date and Details of Corrective Actions (if needed): None

Attachments: Photos

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



CB #33 Interior



CB #33 Exterior

**DOLBY LANDFILL
CONCRETE MANHOLE INSPECTION FORM**

Manhole / Catch Basin No: CB #34

Landfill Location: Dolby III, North Side

Date: 4/26/2021 Time: 09:59

Weather: Overcast, 35-40°, Light Rain/Snow Inspected by: DPW

Date of last inspection: 10/30/2018

Exterior Condition (Comments): Fair

Cracks: North Side has evidence of surface cracking. Cracking present on West as well.

Holes: None

Flaking: None

Seeps: None

Other: None

Interior Condition (Comments): Fair

Cracks: Top Barrel North Side (No separation)

Holes: None

Flaking: Flaking on bottom and second barrel. (+/- 1")

Seeps: None

Other: Vegetation inside at joint between second barrel and top.

Corrective Action required (Y/N): Inspect/observe this manhole yearly during landfill inspections.

Date and Details of Corrective Actions (if needed): Cover upgrade likely in 2022,
no repairs needed at this time.

Attachments: Photos

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



CB #34 Interior



CB #34 Exterior

**DOLBY LANDFILL
CONCRETE MANHOLE INSPECTION FORM**

Manhole / Catch Basin No: CB #35

Landfill Location: Dolby III North Slope (middle)

Date: 4/26/2021 Time: 10:06

Weather: Overcast, 35-40°, Light Rain/Snow Inspected by: DPW

Date of last inspection: 10/30/2018

Exterior Condition (Comments): Good

Cracks: None

Holes: None

Flaking: None

Seeps: None

Other: None

Interior Condition (Comments): Fair

Cracks: None

Holes: None

Flaking: Yes, less than 1-inch

Seeps: None

Other: Sediment in sump. High flows from East.

Corrective Action required (Y/N): None – Clean sediment before final closure.

Date and Details of Corrective Actions (if needed): None

Attachments: Photos

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



CB #35 Interior



CB #35 Exterior

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



D3-01 Interior



D3-01 Exterior

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



D3 – 02 Interior



D3 – 02 Exterior

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



D3 – 04 Interior



D3 – 04 Exterior

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



D3 – Temp Interior



D3 – Temp Exterior

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**



D3 – 05 Interior



D3 – 05 Exterior

**Manhole Inspection
Dolby Landfill, East Millinocket, Maine
April 26, 2021**




D3 – 08 Interior



D3 – 08 Exterior

MEMO TO: Lou Pizzuti, State of Maine **(VIA EMAIL)**

CC: Matt Muzzy, SME

FROM: Brian Pierce, SME 

DATE: May 6, 2021

SUBJECT: **LANDFILL INSPECTION
SPRING 2021
DOLBY I, II AND III LANDFILLS**

The Dolby I, II, and III Landfill inspection (spring quarter) was completed by Brian Pierce of Sevee & Maher Engineers, Inc. (SME) on April 21, 2021. The annual Manhole Inspection was also performed on April 21, 2021 in accordance with the facilities Leachate Manhole Inspection Plan, which included inspection of approximately one-third of the landfill manholes. The Manhole Inspection Plan allows inspection of each manhole once every three years. Inspection forms and photographs of each are attached.

This inspection did not reveal any maintenance items that need to occur immediately, however, we recommend that MEDECD address the following maintenance items before the end of 2021. The items listed below are located on attached Figure 1

1. Replace the Leachate Pond leak detection system flow meter. The existing flow meter isn't working and needs to be repaired or replaced as it establishes the leakage rate for the leak detection system. Observation of the interior of the leak detection manhole, where the leak detection flow meter is housed, indicates that water in the manhole is likely the cause of malfunction. Mid-South Engineering (MSE) plans to pump the water from the manhole, remove the flow meter, then dry it out to see if it will work. If the flow meter doesn't work after being dried out SME recommends installing a new flow meter. Regardless of the outcome, SME and Mid-South will make changes to the manhole to make the manhole more waterproof.
2. Replace the water level transducer for the leachate pond, which is located in the pump station's wet well. The transducer's only function is to provide a wet well water level, which is in turn used to estimate the leachate pond level. The existing water level transducer (installed in the leachate pond wet well) fails to read occasionally and needs occasional cleaning to remain reliable. Given this we expect the transducer will fail soon and we recommend purchasing a spare so that down time is minimal. The function of the leachate pumping system will not be jeopardized if the transducer fails as the leachate pumping system is controlled by level switches not the transducer. SME is also considering replacing the transducer with an ultra-sonic sensor to measure the water level in-lieu of a pressure sensing transducer.
3. Repair one gas vent on the top of the Dolby III Cover Upgrade area. The gas vent was not attached to its base when viewed this spring. It appears the vent was not originally glued to its base. Repair will include hand excavation (+/- 9" depth) around the base, inserting a 4" PVC coupling, and gluing the vent pipe onto its base. A geomembrane boot will be reconstructed around the gas vent during construction of Phase 2 of the Dolby III Cover Upgrade project.
4. Repair one gas vent on the top of the Dolby III Cover Upgrade area. The function of the vent does not appear to be impacted, however, the gas vent was leaning and did not feel like it was attached to its

base. Repair will include hand excavation (+/- 9" depth) around the base, repair, straightening, and gluing the vent pipe onto its base. A geomembrane boot will be reconstructed around the gas vent (if needed) during construction of Phase 2 of the Dolby III Cover Upgrade project.

5. Locate and clean the outlet of the corrugated metal culvert that crosses the leachate pond perimeter road near the northwest corner of the leachate pond. The function of this culvert is critical as clogging of the culvert can cause stormwater/snow melt to back up in the ditch adjacent to the leachate pond and flow into the leachate pond.

The following maintenance items were identified and can be addressed in the future as they are not currently causing problems with landfill operations:

6. Replacement of the culvert crossing the Landfill perimeter road between the southwest corner of Dolby III and the southwest sedimentation basin. The culvert is damaged (but functional). Replacement of this culvert is anticipated when cover upgrade construction occurs in the southwest corner of the Dolby III landfill.
7. Replacement of a corrugated metal culvert that crosses the gravel access road immediately southwest of the leachate pond. The invert of this culvert is corroded and/or missing in some locations. We recommend replacement of the culvert with a 24" diameter corrugated polyethylene pipe.
8. Repair of an area of no grass growth on the north side of Dolby III. There are no signs of erosion in the area (roughly 10' x 10') is without vegetation and should be monitored. The area will be covered during construction of Phase 2 of the Dolby III Cover Upgrade project.

Please contact Matt Muzzy or me if you have any questions or require additional information.

Thank you.

Attachments

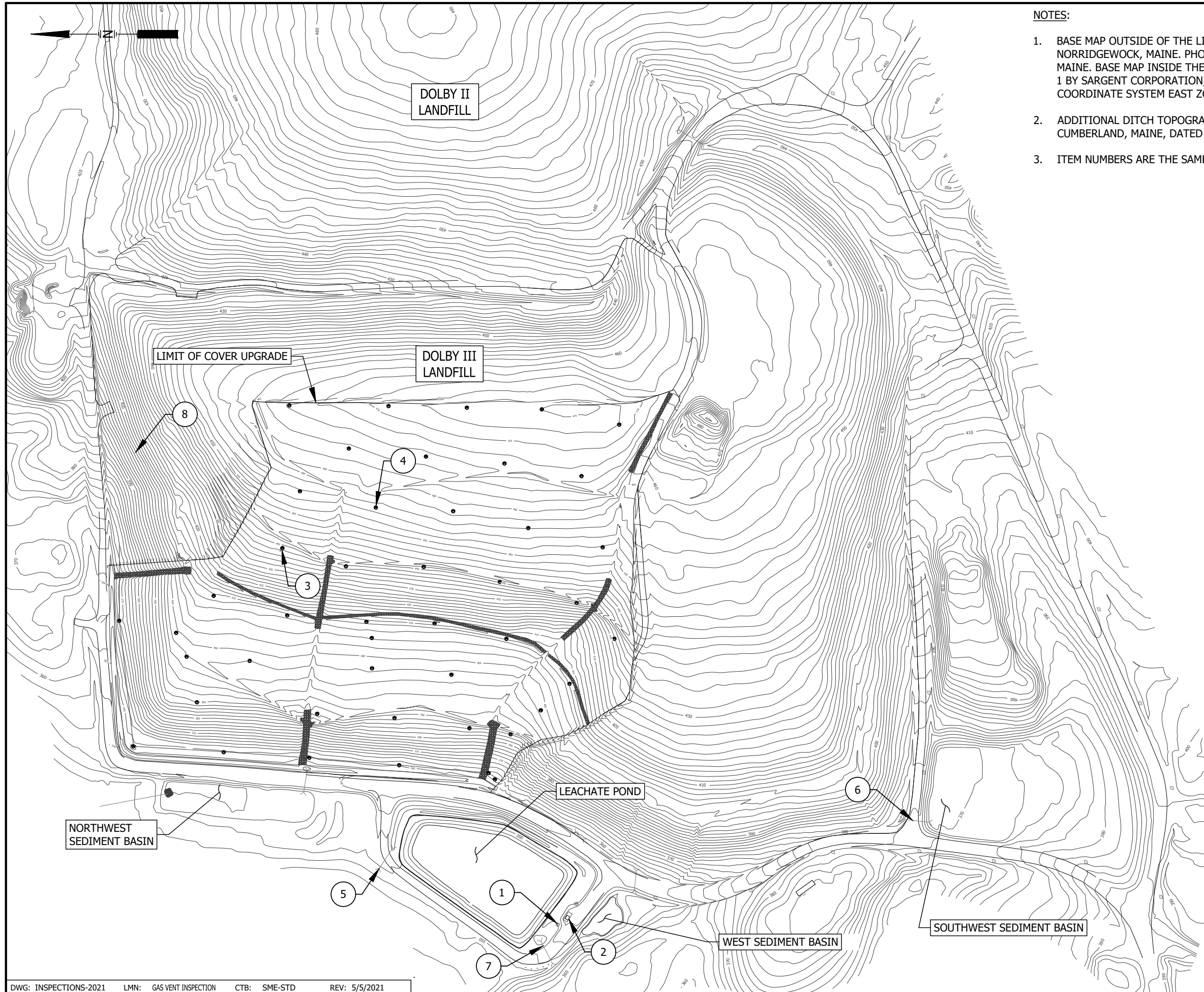
Attachment 1 - Figure 1 – Site Plan

Attachment 2 – Spring Quarter Site Inspection Forms and Photos

Attachment 3 – 2021 Annual Manhole Inspection Forms and Photos

ATTACHMENT 1

FIGURE 1 – SITE PLAN



NOTES:

1. BASE MAP OUTSIDE OF THE LIMIT OF WORK PREPARED BY AERIAL SURVEY & PHOTO, NORRIDGEWOCK, MAINE. PHOTO DATE 10/15/2015. GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE. BASE MAP INSIDE THE LIMIT OF WORK FROM AS BUILT SURVEY OF DOLBY LANDFILL PHASE 1 BY SARGENT CORPORATION, DATED OCTOBER, 2016. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. VERTICAL DATUM: NAVD 1929.
2. ADDITIONAL DITCH TOPOGRAPHY ALONG TOE OF LANDFILL BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 10/7/2015.
3. ITEM NUMBERS ARE THE SAME AS THOSE ON THE APRIL 2021 INSPECTION MEMO.

MAINTENANCE ITEM NO.	DESCRIPTION
1	LEAK DETECTION FLOW METER REPLACEMENT
2	LEACHATE POND WET WELL TRANSDUCER REPLACEMENT
3	BROKEN GAS VENT
4	LEANING GAS VENT
5	LOCATE AND CLEAN CULVERT OUTLET
6	CULVERT REPLACEMENT
7	24" DIA CULVERT REPLACEMENT
8	COVER AREA WITHOUT VEGETATION



FIGURE 1
DOLBY III SITE PLAN-2021
MAINE BUREAU OF GENERAL SERVICES
EAST MILLINOCKET, MAINE



ATTACHMENT 2

SPRING QUARTER SITE INSPECTION FORMS AND PHOTOS

**DOLBY LANDFILL
LANDFILL INSPECTION CHECKLIST**

Date: April 26, 2021

Time: 9:00a.m. to 5:00 p.m.

Weather: Snowing and windy 30-40 F

Inspected By: BDP

Item	Condition	
	Ok	Not Ok
DOLBY I LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Poor Drainage, Ponding	X (1)	
Excessive Settling, Crack Development	X	
Grass Die-off-Failure to Thrive	X	
Mowing Required	X (2)	
Germination of Trees, Deep Root Vegetation	X (2)	
Animal Burrowing	X	
COLLECTION PONDS		
West End Pond Level (low, medium, or high)	X (High)	
East End Pond Level (low, medium, or high)	X(Low)	
Vegetative Build-up in Ponds (Cat Tails and Trees)	X	
ACCESS GATES		
Gates Secured and Working Properly (Facility Main Gates)	X	
Road Accessible by Vehicle	X	
DOLBY II LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Poor Drainage, Ponding	X	
Excessive Settling, Crack Development	X	
Grass Die-off, Failure to Thrive	X(3)	
Mowing Required (Mowing Should Occur Next Year due to Woody Vegetation)	X	
Germination of Trees, Deep Root Vegetation	X	
Animal Burrowing	X	
PERIMETER DRAIN CATCH BASINS		
Build-up Sediment in Catch Basins	X	
Flow Conditions (low, medium, or high)	X (Medium-High)	
Catch Basins Intact and Serviceable	X	
LEACHATE HOLDING POND		
Iron Staining (wooded area east of pond)	X	
Holding Pond Level	X (Medium-High)	
DOLBY III LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Excessive Settling, Crack Development	X	
Grass Die-off-Failure to Thrive	X (3)	
Mowing Required	X	
Germination of Trees, Deep Root Vegetation	X	
Poor Drainage, Ponding	X	
Animal Burrowing	X	
Access Road Condition	X	
Gas Vent Pipes	X (10)	
Active Area Berm	X	
PERIMETER DRAIN AND CATCH BASINS		
Build-up of Sediment in Catch Basins	X	
Valves Functioning Properly (free turning)	X	

Item	Condition	
	Ok	Not OK
LEACHATE COLLECTION POND		
LINER		
Condition of Liner (rips, holes, torn seams)	X	
LEACHATE PUMP STATION		
Build-up Sediment in Wetwells or Leachate Pond	X	
Pumps Functioning Properly (amps, noises)	X	
Valves Functioning Properly (free turning)	X	
Flow Conditions (low, medium, or high)	X (Medium-High)	
Properly Vented	X	
Electrical Panel Inspection (corrosion, etc.)	X	
Flow Meter Inspection	X	
Transducer		X(6)
LEAK DETECTION SYSTEM		
Pump functioning properly (amps, noises)	X	
Flow Conditions (low, medium, high)	X (High)(7)	
Flow Meter Inspection		X (4)
Control Panel Inspection	X	
UNDERDRAIN PUMPING SYSTEM		
Pump functioning properly	X	
Flow Conditions	X (High)	
SITE SEDIMENTATION STRUCTURES		
NORTHWEST SEDIMENT POND (SEDIMENT POND 3)		
Check Outlet Structure for Condition	X	
Water Level (low, medium, or high)	X (Medium-Low)	
WEST SEDIMENT POND (SEDIMENT POND 2)		
Check Outlet Structure for Condition	X	
Water Level (low, medium, or high)	X (Medium)	
SOUTHWEST SEDIMENT POND (SEDIMENT POND 1)		
Check Outlet Structure for Condition	X (8)	
Water Level (low, medium, or high)	X (Medium)	
SITE ROADWAYS AND DRAINAGE		
Check Catch Basins for Build-up of Sediment	X	
Check Culverts for Blocked Drainage and/or damage	X (9)	
Check Monitoring Wells for Visual Damage	X (5)	
General condition of Perimeter Roadways	X	
LEACHATE PIPELINE		
Check Manhole Exterior Condition	X	
Check Transition Station Exterior Condition	X	
Check Aboveground Utility Line to the Transition Station	X	
General condition of Leachate Pipeline Access Road	X	

COMMENTS:

- (1) Growth of Cattails was noted on the south side of the Dolby I cover system; however, no standing water was observed.
- (2) Woody Vegetation observed on Dolby I cover system was most significant in downspouts and stormwater ponds. In 2019 MEDEP (Lou Pizzuti) indicated that MEDEP is okay with the tree growth so long as the water quality around this landfill does not degrade and the perimeter of the landfill is walked in the spring to assure that no leachate breakouts are occurring. Perimeter of Dolby I was walked during this inspection and no leachate breakouts were observed.
- (3) Small areas of sparse grass vegetation (failure to thrive) on Dolby II and III landfills. The areas of sparse vegetation may be due to concentrated gas in the areas or topsoil with insufficient nutrients. Regardless of cause the areas are small and do not pose a threat to the overall integrity of the cover systems.
- (4) Leak Detection Flow rate meter and totalizer are not working (Repair/replacement of meter is planned for summer 2021).
- (5) Visual observation of monitoring wells is performed during each environmental monitoring event.
- (6) Transducer in leachate pond wet well fails occasionally and is planned for replacement in the summer of 2020.
- (7) The leachate pond, leak detection system, and underdrain system are currently being monitored on a daily basis to determine the source of high flows to the leak detection system. The monitoring plan was approved by the MEDEP.
- (8) It appears muskrats have taken up residence in the Sediment Pond 1. Their presence will be monitored as they may attempt to clog the culvert outlet to the pond.
- (9) The 24" diameter corrugated metal culvert that crosses the access road near the southwest corner of the leachate pond has rusted and the invert is gone. We recommend replacement of this culvert in 2021.
- (10) Two gas vent pipes on Dolby III need repair.

RECOMMENDED ACTIONS:

-
- Repair and/or Replace leachate pond leak detection flow meter (scheduled for summer 2021)
 - Replace leachate pond pump station sump transducer (scheduled for summer 2021).
 - Replace 24" diameter corrugated metal pipe with 24" diameter Corrugated Polyethylene Pipe at the southwest corner of the leachate pond.
 - Repair two gas vents located on the top of Dolby III during upcoming closure operations in 2022.

Dolby Landfill Inspection Photographs
East Millinocket, Maine
April 26, 2021



Dolby III West Slope and Leachate Pond



Dolby III south Slope



Dolby III – Disposal Cell for Lagoon Waste



Dolby III – Disposal Cell for Lagoon Waste

Dolby Landfill Inspection Photographs
East Millinocket, Maine
April 26, 2021



Dolby III North Side of Open Area



Dolby III Leaning Gas Vent



Dolby III Broken Gas Vent



Leachate Pond

Dolby Landfill Inspection Photographs
East Millinocket, Maine
April 26, 2021



Dolby II South Side



Dolby II Leachate Holding Pond



Dolby I Cover System



Dolby I West End Pond

Dolby Landfill Inspection Photographs
East Millinocket, Maine
April 26, 2021



Dolby I Sideslope



Leachate Pond Perimeter Access Road Culvert at Southwest Corner of Pond



Southwest Sediment Pond



Southwest Sediment Pond Outlet Pipe

Dolby Landfill Inspection Photographs
East Millinocket, Maine
April 26, 2021



West Sediment Pond Outlet



Northwest Sediment Pond




Dolby III Perimeter Access Road Culvert to Northwest Sediment Pond



New Culvert Near Leachate Transport Manhole MH-8

MEMO TO: Lou Pizzuti, State of Maine (VIA EMAIL)

CC: Matt Muzzy, SME

FROM: Brian Pierce, SME 

DATE: September 8, 2021

SUBJECT: **LANDFILL INSPECTION
SUMMER 2021
DOLBY I, II AND III LANDFILLS**

The Dolby I, II, and III Landfill inspection (summer quarter) was completed by Brian Pierce of Sevee & Maher Engineers, Inc. (SME) on August 20, 2021. Inspection forms and photographs for the inspection are attached.

This inspection did not reveal any maintenance items that need to occur immediately, however, we recommend that MEDECD address the following maintenance items before the end of 2021. The items listed below are located as shown on attached Figure 1.

1. Replace the Leachate Pond leak detection system flow meter. The existing flow meter isn't working and needs to be repaired or replaced as it establishes the leakage rate for the leak detection system. Observation of the interior of the leak detection manhole, where the leak detection flow meter is housed, indicates that water in the manhole is likely the cause of malfunction. SME has contracted with Stevens Electric of Monmouth, Maine to replace the flow meter. The replacement is currently scheduled to occur in the fall of 2021.
2. Replace the water level transducer for the leachate pond, which is in the pump station's wet well. The transducer's only function is to provide a wet well water level, which is in turn used to estimate the leachate pond level. The existing water level transducer (installed in the leachate pond wet well) fails to read on occasion and needs frequent cleaning to remain reliable. Given this, we expect the transducer will fail soon and we recommend purchasing a spare so that down time is minimal. The function of the leachate pumping system will not be jeopardized if the transducer fails as the leachate pumping system is controlled by level switches rather than the transducer. Stevens Electric has been requested to replace the transducer with an ultra-sonic sensor to measure the water level in-lieu of a pressure sensing transducer.
3. Repair two gas vents on the top of the Dolby III Cover Upgrade area. The gas vents were not attached to their bases when viewed this summer. It appears the vents were not originally glued to their bases. Repair will include hand excavation (+/- 9" depth) around the base, inserting a 4" PVC coupling, and gluing the vent pipe onto its base. The geomembrane boots will be reconstructed around the gas vents during construction for Phase 2 of the Dolby III Cover Upgrade project.
4. Repair one gas vent on the top of the Dolby III Cover Upgrade area. The function of the vent does not appear to be impacted, however, the gas vent was leaning and did not feel like it was attached to its base. Repair will include hand excavation (+/- 9" depth) around the base, repair, straightening, and gluing the vent pipe onto its base. A geomembrane boot will be reconstructed around the gas vent (if needed) during construction of Phase 2 of the Dolby III Cover Upgrade project.
5. Locate and clean the outlet of the corrugated metal culvert that crosses the leachate pond perimeter road near the northwest corner of the leachate pond. The function of this culvert is critical as clogging

of the culvert can cause stormwater/snow melt to back up in the ditch adjacent to the leachate pond and flow into the leachate pond. The culvert is critical to controlling emergency discharges from the leachate pond spillway.

6. Replacement of a corrugated metal culvert that crosses the gravel access road immediately southwest of the leachate pond. The invert of this culvert is corroded and/or missing in some locations. We recommend replacement of the culvert with a 24" diameter corrugated polyethylene pipe.

The following maintenance items were identified and can be addressed in the future as they are not currently causing problems with landfill operations:

7. Replacement of the culvert crossing the Landfill perimeter road between the southwest corner of Dolby III and the southwest sedimentation basin. The culvert is damaged (but functional). Replacement of this culvert is anticipated when cover upgrade construction occurs in the southwest corner of the Dolby III landfill.
8. Repair of an area of sparse grass growth on the north side of Dolby III. There are no signs of erosion in the area (roughly 10' x 10'), however is without vegetation and should be monitored. The area will be covered during construction of Phase 2 of the Dolby III Cover Upgrade project.

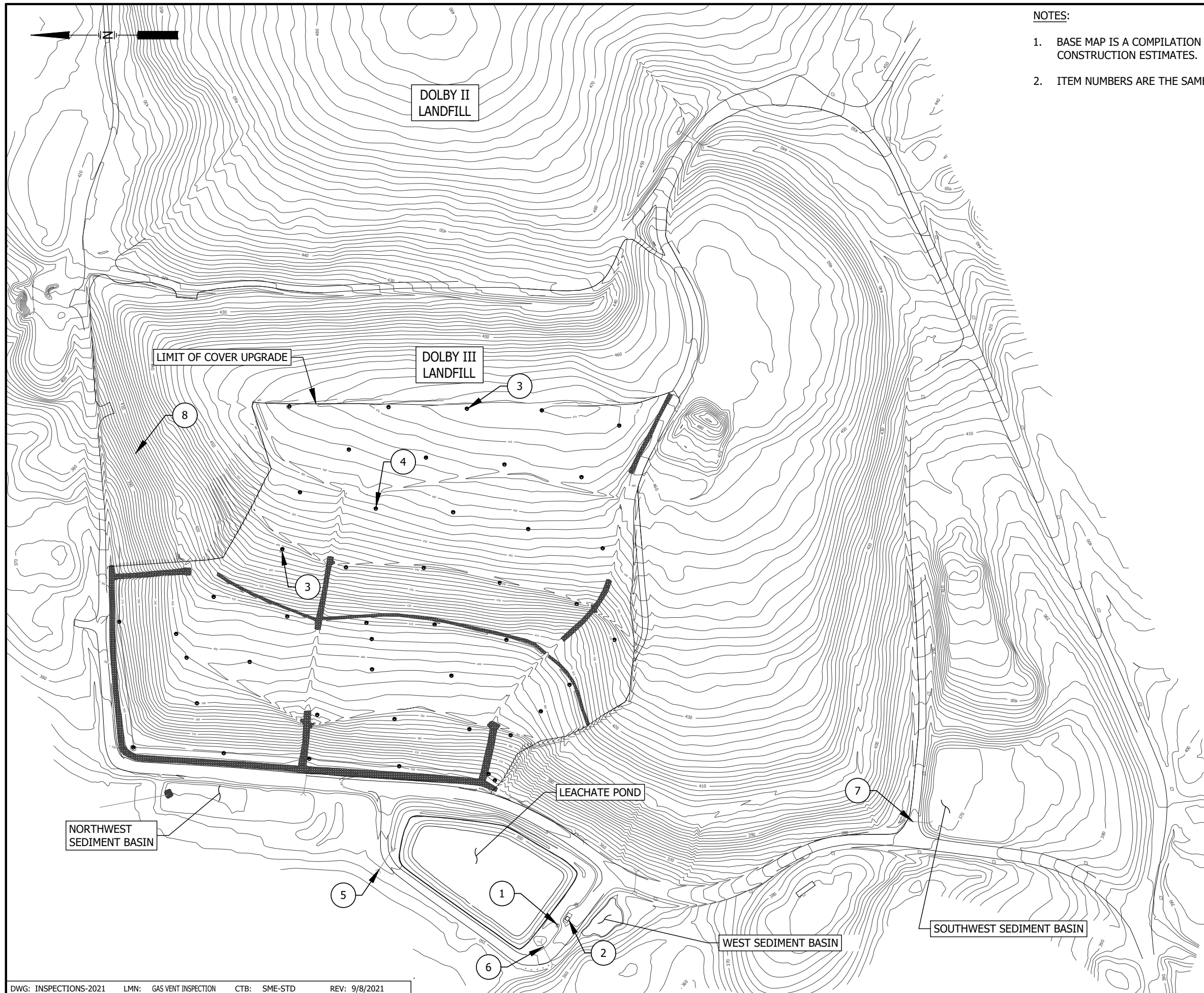
Please contact Matt Muzzy or me if you have any questions or require additional information.

Thank you.

Attachments

Attachment 1 - Figure 1 – Site Plan

Attachment 2 – Summer Quarter Site Inspection Forms and Photos



NOTES:

1. BASE MAP IS A COMPILATION OF PREVIOUS SURVEYS AND SHOULD NOT BE USED FOR CONSTRUCTION ESTIMATES.
2. ITEM NUMBERS ARE THE SAME AS THOSE MENTIONED IN THE AUGUST 2021 INSPECTION MEMO.

**MAINTENANCE
ITEM NO.**

DESCRIPTION

- | | |
|---|--|
| 1 | LEAK DETECTION
FLOW METER REPLACEMENT |
| 2 | LEACHATE POND WET WELL
TRANSDUCER REPLACEMENT |
| 3 | BROKEN GAS VENT |
| 4 | LEANING GAS VENT |
| 5 | LOCATE AND CLEAN CULVERT OUTLET |
| 6 | 24" DIA CULVERT REPLACEMENT |
| 7 | CULVERT REPLACEMENT |
| 8 | COVER AREA WITHOUT VEGETATION |



FIGURE 1
DOLBY III SITE PLAN-2021
 DEPARTMENT OF ADMINISTRATION
 AND FINANCIAL SERVICES
 BUREAU OF GENERAL SERVICES
 EAST MILLINOCKET, MAINE



**DOLBY LANDFILL
LANDFILL INSPECTION CHECKLIST**

Date: August 20, 2021

Time: 10:00a.m. to 1:00 p.m.

Weather: Sunny 75-80 F

Inspected By: BDP

Item	Condition	
	Ok	Not Ok
DOLBY I LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Poor Drainage, Ponding	X (1)	
Excessive Settling, Crack Development	X	
Grass Die-off-Failure to Thrive	X	
Mowing Required	X (2)	
Germination of Trees, Deep Root Vegetation	X (2)	
Animal Burrowing	X	
COLLECTION PONDS		
West End Pond Level (low, medium, or high)	X (Low)	
East End Pond Level (low, medium, or high)	X(Low)	
Vegetative Build-up in Ponds (Cat Tails and Trees)	X	
ACCESS GATES		
Gates Secured and Working Properly (Facility Main Gates)	X	
Road Accessible by Vehicle	X	
DOLBY II LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Poor Drainage, Ponding	X	
Excessive Settling, Crack Development	X	
Grass Die-off, Failure to Thrive	X(3)	
Mowing Required (Mowing Should Occur Next Year due to Woody Vegetation)	X	
Germination of Trees, Deep Root Vegetation	X	
Animal Burrowing	X	
PERIMETER DRAIN CATCH BASINS		
Build-up Sediment in Catch Basins	X	
Flow Conditions (low, medium, or high)	X (Low)	
Catch Basins Intact and Serviceable	X	
LEACHATE HOLDING POND		
Iron Staining (wooded area east of pond)	X	
Holding Pond Level	X (Low)	
DOLBY III LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Excessive Settling, Crack Development	X	
Grass Die-off-Failure to Thrive	X (3)	
Mowing Required	X	
Germination of Trees, Deep Root Vegetation	X	
Poor Drainage, Ponding	X	
Animal Burrowing	X	
Access Road Condition	X	
Gas Vent Pipes	X (9)	
Active Area Berm	X	
PERIMETER DRAIN AND CATCH BASINS		
Build-up of Sediment in Catch Basins	X	
Valves Functioning Properly (free turning)	X	

Item	Condition	
	Ok	Not OK
LEACHATE COLLECTION POND		
LINER		
Condition of Liner (rips, holes, torn seams)	X	
LEACHATE PUMP STATION		
Build-up Sediment in Wetwells or Leachate Pond	X	
Pumps Functioning Properly (amps, noises)	X	
Valves Functioning Properly (free turning)	X	
Flow Conditions (low, medium, or high)	X (Low)	
Properly Vented	X	
Electrical Panel Inspection (corrosion, etc.)	X	
Flow Meter Inspection	X	
Transducer		X(6)
LEAK DETECTION SYSTEM		
Pump functioning properly (amps, noises)	X	
Flow Conditions (low, medium, high)	X (Low)	
Flow Meter Inspection		X (4)
Control Panel Inspection	X	
UNDERDRAIN PUMPING SYSTEM		
Pump functioning properly	X	
Flow Conditions	X (High)	
SITE SEDIMENTATION STRUCTURES		
NORTHWEST SEDIMENT POND (SEDIMENT POND 3)		
Check Outlet Structure for Condition	X	
Water Level (low, medium, or high)	X (Low)	
WEST SEDIMENT POND (SEDIMENT POND 2)		
Check Outlet Structure for Condition	X	
Water Level (low, medium, or high)	X (Low)	
SOUTHWEST SEDIMENT POND (SEDIMENT POND 1)		
Check Outlet Structure for Condition	X (7)	
Water Level (low, medium, or high)	X (Low)	
SITE ROADWAYS AND DRAINAGE		
Check Catch Basins for Build-up of Sediment	X	
Check Culverts for Blocked Drainage and/or damage	X (8)	
Check Monitoring Wells for Visual Damage	X (5)	
General condition of Perimeter Roadways	X	
LEACHATE PIPELINE		
Check Manhole Exterior Condition	X	
Check Transition Station Exterior Condition	X	
Check Aboveground Utility Line to the Transition Station	X	
General condition of Leachate Pipeline Access Road	X	

Second Inspection 2021



COMMENTS:

- (1) Growth of Cattails was noted on the south side of the Dolby I cover system; however, no standing water was observed.
- (2) Woody Vegetation observed on Dolby I cover system was most significant in downspouts and stormwater ponds. In 2019 MEDEP (Lou Pizzuti) indicated that MEDEP is okay with the tree growth so long as the water quality around this landfill does not degrade and the perimeter of the landfill is walked in the spring to assure that no leachate breakouts are occurring.
- (3) Small areas of sparse grass vegetation (failure to thrive) on Dolby II and III landfills. The areas of sparse vegetation may be due to concentrated gas in the areas or topsoil with insufficient nutrients. Regardless of cause the areas are small and do not pose a threat to the overall integrity of the cover systems.
- (4) Leak Detection Flow rate meter and totalizer are not working (Repair/replacement of meter is planned for summer 2021).
- (5) Visual observation of monitoring wells is performed during each environmental monitoring event.
- (6) Transducer in leachate pond wet well fails occasionally and is planned for replacement in the summer of 2021.
- (7) It appears muskrats have taken up residence in the Sediment Pond 1. Their presence will be monitored as they may attempt to clog the culvert outlet to the pond.
- (8) The 24" diameter corrugated metal culvert that crosses the access road near the southwest corner of the leachate pond has rusted and the invert is gone. We recommend replacement of this culvert in 2021.
- (9) Three gas vent pipes on Dolby III need repair.

RECOMMENDED ACTIONS:

-
- Repair and/or Replace leachate pond leak detection flow meter (scheduled for summer 2021)
 - Replace leachate pond pump station sump transducer (scheduled for summer 2021).
 - Replace 24" diameter corrugated metal pipe with 24" diameter Corrugated Polyethylene Pipe at the southwest corner of the leachate pond.
 - Repair three gas vents located on the top of Dolby III during 2021.

Dolby Landfill Inspection Photographs
East Millinocket, Maine
August 20, 2021



Access Road Between Dolby II and Dolby III



Containment Area on Dolby III



Dolby I Cover



Dolby I West Pond

Dolby Landfill Inspection Photographs
East Millinocket, Maine
August 20, 2021



Dolby II Landfill



Dolby II Leachate Pond



Dolby III Broken Gas Vent



Dolby III North Side

Dolby Landfill Inspection Photographs
East Millinocket, Maine
August 20, 2021



Leachate Pond and Pump Station



Leachate Pond North End



Open Area of Dolby III (North End)



Sediment Pond

Dolby Landfill Inspection Photographs
East Millinocket, Maine
August 20, 2021



Sediment Pond



Top of Dolby III



Transition Station



Valley Between Dolby II and Dolby III

MEMO TO: William Longfellow, State of Maine **(VIA EMAIL)**

CC: Matt Muzzy, SME

FROM: Brian Pierce, SME

DATE: October 21, 2021

SUBJECT: **LANDFILL INSPECTION
FALL 2021
DOLBY I, II AND III LANDFILLS**

The Dolby I, II, and III Landfill inspection (summer quarter) was completed by Brian Pierce of Sevee & Maher Engineers, Inc. (SME) on October 5, 2021. Inspection forms and photographs for the inspection are attached.

This inspection did not reveal any maintenance items that need to occur immediately; however, we recommend that Maine Bureau of General Services (BGS) address the following maintenance items before the end of 2021. The items listed below are located as shown on attached Figure 1.

1. Coordinate with Mid-South to get newly installed leak detection system transmitter data to match the existing leak detection panel flow and totalizer. SME has contracted with Mid-South Engineering who will work with Stevens Electric of Monmouth, Maine to get the systems to integrate properly. This work will be performed during fall 2021.
2. Repair two gas vents on the top of the Dolby III Cover Upgrade area. The gas vents were not attached to their bases when viewed this summer. It appears the vents were not originally glued to their bases. Repair will include hand excavation (+/- 9" depth) around the base, inserting a 4-inch PVC coupling, and gluing the vent pipe onto its base. The geomembrane boots will be reconstructed around the gas vents during construction for Phase 2 of the Dolby III Cover Upgrade project. Blaine McLaughlin has been contracted to do this work during fall 2021.
3. Repair one gas vent on the top of the Dolby III Cover Upgrade area. The function of the vent does not appear to be impacted, however, the gas vent was leaning and did not feel like it was attached to its base. Repair will include hand excavation (+/- 9" depth) around the base, repair, straightening, and gluing the vent pipe onto its base. A geomembrane boot will be reconstructed around the gas vent (if needed) during construction of Phase 2 of the Dolby III Cover Upgrade project. SME has contracted with Blaine McLaughlin to do this work during fall 2021.
4. Locate and clean the outlet of the corrugated metal culvert crossing the leachate pond perimeter road near the northwest corner of the leachate pond. The function of this culvert is critical as clogging of the culvert can cause stormwater/snow melt to back up in the ditch adjacent to the leachate pond and flow into the leachate pond. The culvert is critical to controlling emergency discharges from the leachate pond spillway. SME has contracted with Adam Qualey Excavation to do this work during fall 2021.
5. Replacement of a corrugated metal culvert that crosses the gravel access road immediately southwest of the leachate pond. The invert of this culvert is corroded and/or missing in some locations. We recommend replacement of the culvert with a 24-inch diameter corrugated polyethylene pipe. SME has contracted with Adam Qualey Excavation to do this work during fall 2021.

6. Installation of reflective tape or objects on the landfill back gate to increase visibility to recreational vehicles. SME has contracted with Blaine McLaughlin to do this work during fall 2021.
7. Repair of the leachate pond pump station hatch for Pump 1. The hatch hinges are broken and in need of repairs. SME has contracted with Blaine McLaughlin to do this work during fall 2021.

The following maintenance items were identified and can be addressed in the future as they are not currently causing problems with landfill operations:

8. Replacement of the culvert crossing the Landfill perimeter road between the southwest corner of Dolby III and the southwest sedimentation basin. The culvert is damaged (but functional). Replacement of this culvert is anticipated when cover upgrade construction occurs in the southwest corner of the Dolby III landfill.
9. Repair of an area of sparse grass growth on the north side of Dolby III. There are no signs of erosion in the area (roughly 10' x 10'), however is without vegetation and should be monitored. The area will be covered during construction of Phase 2 of the Dolby III Cover Upgrade project.
10. Repair two small "dents" noted in the primary geomembrane of the leachate pond. One dent was noted below the emergency outlet and one was located on the middle of the east side of the pond. Both dents are at high elevations that is seldom see leachate. The damage should be repaired the next time a geomembrane repair company visits the site.
11. Lou Pizzuti and SME to prepare a cost estimate to increase the ability for remote monitoring of leachate pond pump station, leachate pond leak detection, leachate pond underdrain, and leachate pipeline flow meter building. SME has asked Mid-South Engineering to provide a cost to create a plan for this service.

Leachate Pump 1 was removed from the leachate pond wet well prior to the Landfill site visit. Evaluation of the pump by Stevens Pump & Electric (Stevens) of Monmouth, Maine indicated that the pump is in need of repair or replacement. SME is currently working with Stevens to determine the cost for each option.

Please contact Matt Muzzy or me if you have any questions or require additional information.

Thank you.

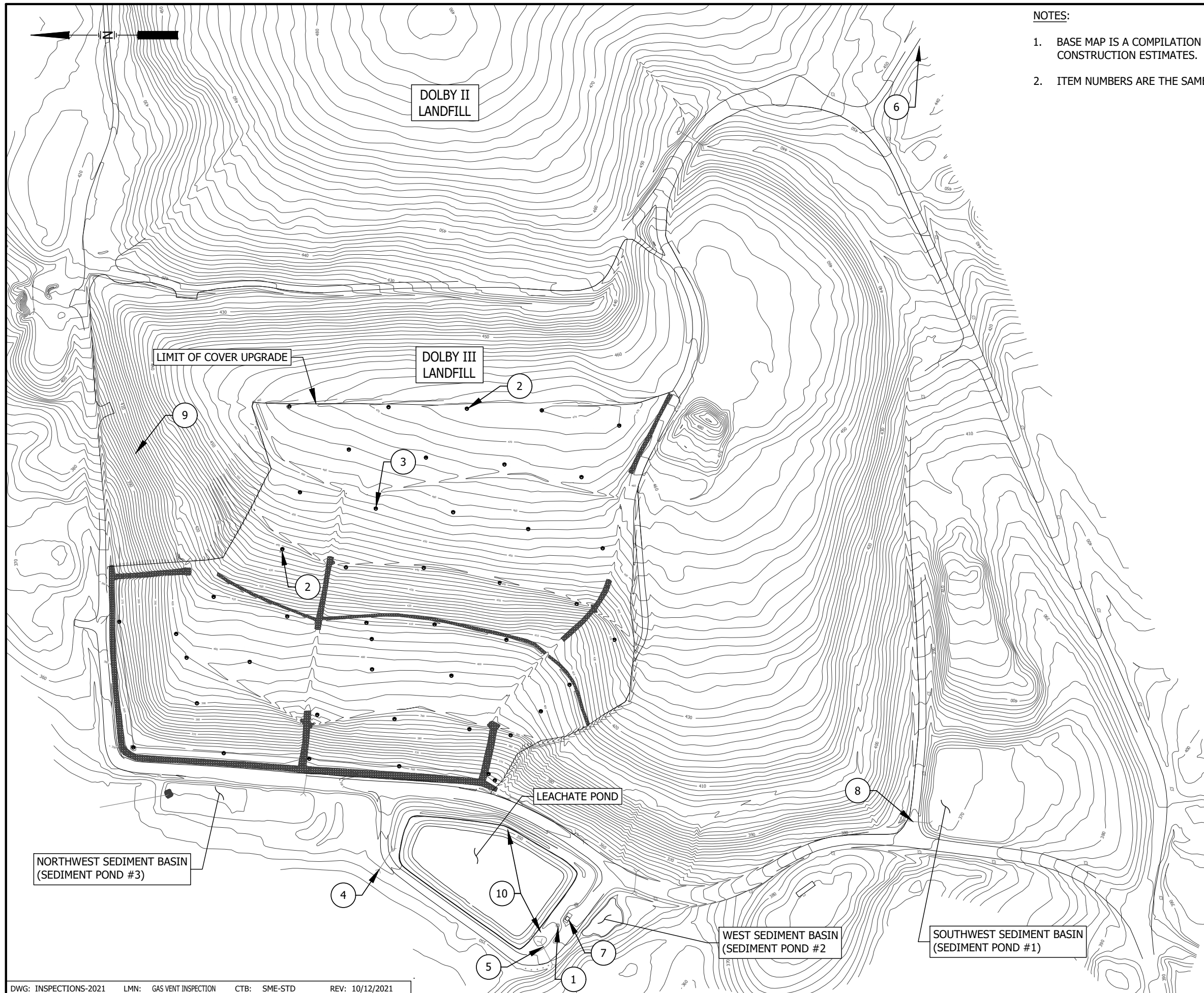
Attachments

Attachment 1 - Figure 1 – Site Plan

Attachment 2 – Fall Quarter Site Inspection Forms and Photos

ATTACHMENT 1

FIGURE 1 – SITE PLAN



NOTES:

1. BASE MAP IS A COMPILATION OF PREVIOUS SURVEYS AND SHOULD NOT BE USED FOR CONSTRUCTION ESTIMATES.
2. ITEM NUMBERS ARE THE SAME AS THOSE MENTIONED IN THE AUGUST 2021 INSPECTION MEMO.

**MAINTENANCE
ITEM NO.**

DESCRIPTION

- | | |
|---|--|
| ① | LEAK DETECTION
FLOW METER REPLACEMENT |
| ② | BROKEN GAS VENT |
| ③ | LEANING GAS VENT |
| ④ | LOCATE AND CLEAN CULVERT OUTLET |
| ⑤ | 24" DIA CULVERT REPLACEMENT |
| ⑥ | GATE REFLECTOR INSTALL |
| ⑦ | LEACHATE PUMP 1 HATCH REPAIR |
| ⑧ | CULVERT REPLACEMENT |
| ⑨ | COVER AREA WITHOUT VEGETATION |
| ⑩ | LEACHATE POND GEOMEMBRANE DENT REPAIR |



FIGURE 1
DOLBY INSPECTION SITE PLAN
 DEPARTMENT OF ADMINISTRATION
 AND FINANCIAL SERVICES
 BUREAU OF GENERAL SERVICES
 EAST MILLINOCKET, MAINE



ATTACHMENT 2

FALL QUARTER SITE INSPECTION FORMS AND PHOTOS

**DOLBY LANDFILL
LANDFILL INSPECTION CHECKLIST**

Date: October 5, 2021

Time: 10:30 a.m. to 3:30 p.m.

Weather: Sunny 65-70 F

Inspected By: BDP

Item	Condition	
	Ok	Not Ok
DOLBY I LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Poor Drainage, Ponding	X (1)	
Excessive Settling, Crack Development	X	
Grass Die-off-Failure to Thrive	X	
Mowing Required	X (2)	
Germination of Trees, Deep Root Vegetation	X (2)	
Animal Burrowing	X	
COLLECTION PONDS		
West End Pond Level (low, medium, or high)	X (Medium)	
East End Pond Level (low, medium, or high)	X(Low)	
Vegetative Build-up in Ponds (Cat Tails and Trees)	X	
ACCESS GATES		
Gates Secured and Working Properly (Facility Main Gates)	X	
Road Accessible by Vehicle	X	
DOLBY II LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Poor Drainage, Ponding	X	
Excessive Settling, Crack Development	X	
Grass Die-off, Failure to Thrive	X(3)	
Mowing Required (Mowing Should Occur Next Year due to Woody Vegetation)	X	
Germination of Trees, Deep Root Vegetation	X	
Animal Burrowing	X	
PERIMETER DRAIN CATCH BASINS		
Build-up Sediment in Catch Basins	X	
Flow Conditions (low, medium, or high)	X (Medium))	
Catch Basins Intact and Serviceable	X	
LEACHATE HOLDING POND		
Iron Staining (wooded area east of pond)	X	
Holding Pond Level	X (Medium)	
DOLBY III LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions	X	
Excessive Settling, Crack Development	X	
Grass Die-off-Failure to Thrive	X (3)	
Mowing Required	X	
Germination of Trees, Deep Root Vegetation	X	
Poor Drainage, Ponding	X	
Animal Burrowing	X	
Access Road Condition	X	
Gas Vent Pipes	X (9)	
Active Area Berm	X	
PERIMETER DRAIN AND CATCH BASINS		
Build-up of Sediment in Catch Basins	X	
Valves Functioning Properly (free turning)	X	

Item	Condition	
	Ok	Not OK
LEACHATE COLLECTION POND		
LINER		
Condition of Liner (rips, holes, torn seams)	X (6)	
LEACHATE PUMP STATION		
Build-up Sediment in Wetwells or Leachate Pond	X	
Pumps Functioning Properly (amps, noises)	X (10)	
Valves Functioning Properly (free turning)	X	
Flow Conditions (low, medium, or high)	X (Medium)	
Properly Vented	X	
Electrical Panel Inspection (corrosion, etc.)	X	
Flow Meter Inspection	X	
Transducer	X	
LEAK DETECTION SYSTEM		
Pump functioning properly (amps, noises)	X	
Flow Conditions (low, medium, high)	X (Low)	
Flow Meter Inspection	X(4)	
Control Panel Inspection	X	
UNDERDRAIN PUMPING SYSTEM		
Pump functioning properly	X	
Flow Conditions	X (High)	
SITE SEDIMENTATION STRUCTURES		
NORTHWEST SEDIMENT POND (SEDIMENT POND 3)		
Check Outlet Structure for Condition	X	
Water Level (low, medium, or high)	X (Medium)	
WEST SEDIMENT POND (SEDIMENT POND 2)		
Check Outlet Structure for Condition	X	
Water Level (low, medium, or high)	X (Medium)	
SOUTHWEST SEDIMENT POND (SEDIMENT POND 1)		
Check Outlet Structure for Condition	X (7)	
Water Level (low, medium, or high)	X (Medium)	
SITE ROADWAYS AND DRAINAGE		
Check Catch Basins for Build-up of Sediment	X	
Check Culverts for Blocked Drainage and/or damage	X (8)	
Check Monitoring Wells for Visual Damage	X (5)	
General condition of Perimeter Roadways	X	
LEACHATE PIPELINE		
Check Manhole Exterior Condition	X	
Check Transition Station Exterior Condition	X	
Check Aboveground Utility Line to the Transition Station	X	
General condition of Leachate Pipeline Access Road	X	

Third Inspection 2021



COMMENTS:

- (1) Growth of Cattails was noted on the south side of the Dolby I cover system; however, no standing water was observed.
- (2) Woody Vegetation observed on Dolby I cover system was most significant in downspouts and stormwater ponds. In 2019 MEDEP indicated that MEDEP is okay with the tree growth so long as the water quality around this landfill does not degrade and the perimeter of the landfill is walked in the spring to assure that no leachate breakouts are occurring.
- (3) Small areas of sparse grass vegetation (failure to thrive) on Dolby II and III landfills. The areas of sparse vegetation may be due to concentrated gas in the areas or topsoil with insufficient nutrients. Regardless of cause the areas are small and do not pose a threat to the overall integrity of the cover systems.
- (4) Leak Detection Flow rate meter and totalizer were replaced during the week of October 1. Mid-South Engineering indicates that the flow rate and totals from the new interface and existing totalizer screen do not match, and programming will be needed to make them match.
- (5) Visual observation of monitoring wells is performed during each environmental monitoring event.
- (6) Two dents were found high up in the leachate pond geomembrane. One just below the emergency outlet and one on the middle of the east side of the pond.
- (7) It appears muskrats have taken up residence in the Sediment Pond 1. Their presence will be monitored as they may attempt to clog the culvert outlet to the pond.
- (8) The 24" diameter corrugated metal culvert that crosses the access road near the southwest corner of the leachate pond has rusted and the invert is gone. The culvert is scheduled to be repaired by Adam Qualey during the week of October 10, 2021.
- (9) Three gas vent pipes on Dolby III need repair.
- (10) Leachate Pump 1 pulled by Stevens Pump due to failed voltage leak. Bench testing will be performed by Stevens and repairs will be made as needed so that pump can be reinstalled in late Fall 2021.

RECOMMENDED ACTIONS:

-
- Repair and/or Replace leachate pond leak detection flow meter (scheduled for summer 2021)
 - Replace leachate pond pump station sump transducer (scheduled for summer 2021).
 - Replace 24" diameter corrugated metal pipe with 24" diameter Corrugated Polyethylene Pipe at the southwest corner of the leachate pond. (Scheduled for Fall 2021)
 - Repair three gas vents located on the top of Dolby III during 2021. (Scheduled for fall 2021)
 - Put reflective tape on the gate at the back of the property and add a reflective triangle also. (Scheduled for Fall 2021)
 - Repair "dents" found high up in the leachate pond geomembrane next time RTD is scheduled to visit the site.
 - Repair/replace broken hinges on Pump Station Hatch for Pump 1 (Scheduled for Fall 2021)
 - Diagnose, Repair and Reinstall Leachate Pump 1. (Currently with Stevens Electric)
 - Add reflective markers to back gate of landfill

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Dolby II Cover Repairs



Dolby II Leachate Holding Pond



Dolby III Cover Upgrade Area West Side



Dolby III Lagoon Sediment Temporary Disposal Area Inlet

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Dolby III Landfill Leachate Inlet DMH4-#1A



Dolby III Landfill Northwest side



Dolby III Landfill Southwest Side



Dolby III Landfill North Side

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Dolby Landfill Back Gate



Leachate Pond Leak Detection Manhole Exterior



Leachate Pond Leak Detection Flow Meter



Leachate Pond Emergency Outlet

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Leachate Pond Leak Detection Flow Transmitter



Leachate Pond Pump Station Building



Leachate Pond Underdrain Pump Station



Leachate Pond Underdrain Pump

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Leachate Pond Underdrain Run Time Meter



Leachate Pond



Leachate Pump Station Hatch Repair Needed



Leachate Pump Station Leak Detection Control Panel

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Leachate Pump Station Sonic Level Transmitter



Leachate Transport Pipeline Emergency Leachate Disposal Pad



Leachate Transport Pipeline Flow Meter Building Interior



Leachate Transport Pipeline Flow Meter Building Exterior

Dolby Landfill Inspection Photographs
East Millinocket, Maine
October 5, 2021



Leachate Transport Pipeline Transition Station



Sediment Pond #1 (Southwest)



Sediment Pond #3 (Northwest)



Sediment Pond 2 (West)



Project Name: Dolby Landfills
Facility License Number: #S-000796-WO-AO-N
Location: East Millinocket
Inspection Date: November 2, 2021 Report Date: November 30, 2021
Report Completed By: Vera Maheu and Kathleen Tarbuck

Technical Services Inspection Annual Site Visit

Purpose:

Maine Department of Environmental Protection (DEP) staff conducted an inspection of the Dolby Landfills located in East Millinocket on November 8, 2021 as a general overview for staff newly assigned to the site and as the annual site visit.

Site Location: Located approximately 2.5 miles north of the East Millinocket Wastewater Treatment Facility (at the old paper mill site) on Route 157/11/Main Street. Turn right onto Dolby Landfill Road.

Weather Conditions: Temperature in the 40°F's, cloudy with wind.

Attendees:

DEP Personnel Present: Sean Dougherty, Vera Maheu, Kathy Tarbuck,
BGS Personnel Present: William Longfellow
Sevee & Maher Personnel Present: Matt Muzzy, Brian Pierce
Town Personnel Present: Dick Angotti

Site History

On June 13, 1984, the Great Northern Paper Company (“GNP”) received Department approval to construct and operate the Dolby III Landfill (#L-000796-07-A-N). Dolby III occupies approximately 72 acres. The originally approved waste streams were wastewater sludges, woodroom/woodyard waste, wood ash, and general rubbish from GNP’s Millinocket and East Millinocket paper mills and municipal solid waste (MSW) from the local communities. The disposal of MSW was discontinued in 1993. On April 28, 2003, the Department approved the transfer from GNP of all solid waste licenses and other Department licenses associated with the Dolby Landfill Facility to Katahdin Paper Company LLC (“KPC”). On August 30, 2011, the Maine State Planning Office (“SPO”) acquired the Dolby Landfill Facility and related properties from KPC. On September 28, 2011, the Department approved the transfer of all solid waste licenses (#S-000796-WR-AJ-T) and other Department licenses associated with the Dolby Landfill Facility to the SPO from KPC. The SPO has since been dissolved and responsibilities for the oversight and operation of the Dolby Landfill Facility have been turned over to DAFS/BGS (Department of Administrative and Financial Services, Bureau of General Services). DAFS/BGS proposed to close the remaining open portions of Dolby III and upgrade the cover systems of the previously closed areas of Dolby II and III in several phases.

Site Visit

Prior to the inspection, Matt Muzzy provided a detailed overview of the history of the Dolby Landfill, as well as plans for Phase II and III cover system for Dolby III. These plans were submitted to the DEP as an application in 2017 but were put on hold due to lack of funding. The



Project Name: Dolby Landfills
Facility License Number: #S-000796-WO-AO-N
Location: East Millinocket
Inspection Date: November 2, 2021 Report Date: November 30, 2021
Report Completed By: Vera Maheu and Kathleen Tarbuck

State of Maine has since allocated \$7 million for Phases II and III. The original plans have undergone non-substantative revisions based on the funds available. The updates will likely be submitted by the end of November 2021 with construction expected to occur in 2022, after the issuance of the solid waste condition compliance license. An estimated 33 acres will be closed/covered in 2022. Dolby II, which occupies approximately 62 acres, has a soil cover. After the landfill inspection, Matt Muzzy took the group on a driving tour of the entire pipeline, from the landfill to the water treatment plant.

A. Notes and Observations:

The following were noted during the inspection:

1. The leachate pond liner was replaced in 2007. There appears to be some leakage, but this has not been definitely determined. Dye tests performed in 2021 were inconclusive. The investigation is on-going.
2. The entire leachate pipeline is cleaned every 3 years, with the low points being cleaned in the off years. The force main pipeline is cleaned every year.
3. The flow meter needs to be “re-ranged” to match the reading on the computer.
4. Pump #1 needs to be repaired (approx. \$17,000-\$20,000) or replaced (approx. \$50,000).
5. The leak detection manhole was covered with plastic held in place with concrete blocks. The cover does not fit well. See Photo 1.
6. The cover installed in 2016 as Phase I construction appeared to be in good condition and well maintained. See photo 2.
7. Several riprap channels were overgrown with vegetation. Some vegetation was removed last year with plans to remove vegetation again next year. See photo 3.
8. The remains of wood track matting were stockpiled on top of Dolby III. These were used by Sargent for Phase I of the cover project. See Photo 4.
9. The open area on top of Dolby III was contained and controlled properly with intact berms and drainage. See photo 5.
10. It was noted that one side of Dolby II/III was mowed each year, with the other side being mowed the following year. The plan is to mow both sides to see if that will help the snow blow off the landfill (as compared to getting caught in the tall grass), and thereby reduce the runoff/leachate in the spring.



Project Name: Dolby Landfills

Facility License Number: #S-000796-WO-AO-N

Location: East Millinocket

Inspection Date: November 2, 2021

Report Date: November 30, 2021

Report Completed By: Vera Maheu and Kathleen Tarbuck

11. Dolby I, which has been closed for over 30 years, is no longer mowed or consistently maintained; however, the perimeter is checked for leachate breakouts each spring. If the area is to be cleared, it will need to be done soon or it will be too much to bush hog. There are already several small trees growing, some approximately 3-4" around. . Discussions had been held during previous visits about whether to let it grow wild or to revert back to maintaining and mowing.

B. Recommended Actions:

1. Continue to investigate the potential leachate pond liner issue.
2. Remove vegetation from the rip rap channels next year, as appropriate, so the channels continue to work as designed and the vegetation does not become too overgrown.

cc: DEP: Vera Maheu, Sean Dougherty, Kathleen Tarbuck
BGS: William Longfellow
SME: Matt Muzzey



Project Name: Dolby Landfills
Facility License Number: #S-000796-WO-AO-N
Location: East Millinocket
Inspection Date: November 2, 2021 Report Date: November 30, 2021
Photographs Taken By: Vera Maheu and Kathleen Tarbuck

Photograph Number: 1

Description:

Leak detection manhole cover near the leachate pond



Photograph Number: 2

Description:

Leachate pond with 2016 Phase I cover system in background.



Photograph Number: 3

Description:

Rip rap with vegetation.





Project Name: Dolby Landfills
Facility License Number: #S-000796-WO-AO-N
Location: East Millinocket
Inspection Date: November 2, 2021 Report Date: November 30, 2021
Photographs Taken By: Vera Maheu and Kathleen Tarbuck

Photograph Number: 4

Description:

Wood mat stockpile on top of Dolby III



Photograph Number: 5

Description:

Area opened and bermed on top of Dolby III for occasional waste.



APPENDIX B

MONITORING WELL MW-202B

August 11, 2021

Mr. Lou Pizzuti
Bureau of Remediation and Waste Management
Maine Department of Environmental Protection
106 Hogan Road, Suite 6
Bangor, ME 04401

Subject: Monitoring Wells MW-202AR and 202BR

Dear Mr. Pizzuti,

The purpose of this letter is to document replacement of monitoring well MW-202B at the Dolby Landfill in East Millinocket, Maine. MW-202B apparently was damaged by past freezing and frost heaving of the well pipe (PVC) and outer protective steel casing (see Photo 1). In 2020, it was determined the well pipe had become sufficiently damaged several feet below the ground surface to preclude insertion of the necessary water sampling and water level measuring equipment.

On July 30, 2021, New England Boring Contractors (NEBC) replaced MW-202B with MW-202BR. The installation log for MW-202BR is provided as Attachment 1. NEBC also replaced the protective casing for MW-202AR, as the existing protective casing and a portion of the inner PVC well casing had apparently heaved (see Photo 1). Photo 2 shows the repaired wells. MW-202AR is the well shown on the left side of Photo 2, and MW-202BR is the well on the right side of Photo 2. The well in the foreground of Photo 2 is MW-202A, which was abandoned many years ago. The original MW-202A and B wells were installed in 1982.

As can be envisioned from Photos 1 and 2, the top of PVC elevations for MW-202AR and MW-202BR are no longer known. Until such time that vertical survey is conducted at other site locations, and MW-202AR and 202BR can be directly measured, the top of PVC for both wells will be assumed to be El. 414.00, which is consistent with the approximate average elevation previously used for former monitoring wells MW-202AR and MW-202B.



A copy of this letter will be included in the 2021 Annual Report for the Dolby Landfill. If you have any questions or edits regarding the information herein, please do not hesitate to contact me.

Sincerely,

SEVEE & MAHER ENGINEERS, INC.

A handwritten signature in blue ink, which appears to read 'Matthew W. Muzzy'. The signature is fluid and cursive, with a long, sweeping tail that extends to the right.

Matthew W. Muzzy, P.E.
Principal/Senior Geo-Environmental Engineer

Attachments

cc: Brian Pierce (SME)



Photo 1

MW-202A
(Abandoned)

MW-202B

MW-202AR



Photo 2

MW-202AR
(Repaired)

MW-202BR

MW-202A
(Abandoned)

ATTACHMENT 1

BORING LOGS



PROJECT
 Dolby Landfill
 Repair of MW-202AR

REPORT OF BORING : 202AR
 SHEET 1 of 1
 JOB NO.
 CHKD. BY MWM

DRILLER: New Hampshire Borings / Tom Schaeffer

HORIZ: na See notes for datum
 ELEV. GROUND na WELL TPVC Est 214.00 feet

INSPECTOR: Brian Bardwell

DATE START 7/30/2021 DATE END 7/30/2021

SAMPLER: No samples taken

GROUNDWATER READINGS

CASING:

DATE	TIME	DTW (ft btor)	CASING	STABILIZATION TIME

CASING SIZE: OTHER:

D E P T H	C A S I N G	B O R I N G	SAMPLE			SAMPLE DESCRIPTION	PID (ppm)	WELL INSTALLATION DIAGRAM
			NO.	PEN./ REC-ft	DEPTH (Ft.)			
						Glacial Till Note: this is a repair for MW-202AR. The well standpipe for MW-202AR had heaved to > 5 feet above the ground surface. The PVC stickup was shortened to approximatey 2.5 feet above the ground sureface and a new protective standpipe was installed.		
					1			
					2			
					3			
					4			
5					5			
					6			
					7			
					8			
					9			
10					10			
					11			
					12			
					13			
					14			
15					15			
					16			
					17			
					18			
					19			
20					20			

Notes:

DRILLER:	New Hampshire Borings / Tom Schaeffer		HORIZ:	na	See notes for datum
INSPECTOR:	Brian Bardwell		ELEV.	GROUND na	WELL TPVC Est 214.00 feet
SAMPLER:	No samples taken		DATE START	7/30/2021	DATE END 7/30/2021
CASING:	HW		GROUNDWATER READINGS		
CASING SIZE:	4 inch	OTHER:	HQ core	DATE	TIME
				DTW (ft btor)	CASING
					STABILIZATION TIME

D E P T H	C A S I N G	B O R I N G	SAMPLE			SAMPLE DESCRIPTION	PID (ppm)	WELL INSTALLATION DIAGRAM
			NO.	PEN./ REC-ft	DEPTH (Ft.)			
					1	Glacial Till		
					2			
					3			
					4			
5					5			
					6			
					7			
					8			
					8.5 Feet			
					9	Bedrock		
10					10			
					11			
					12			
					13			
					14			
15					15			
					16			
					17			
					18			
					19			
20					20			

Notes:

Note: this is a replacement well for MW-202B. MW-202B was pulled out and borehole backfilled with bentonite chips. Replacement well is 2-inch diameter PVC, stickup is approximately 2.5-feet. Screen zone is 7 to 12 feet. Sand pack is 6 to 12 feet. Bentonite seal 3.5 to 6 feet. Cuttings and bentonite surface seal 3.5 feet to top of ground. Protective surface casing installed.

APPENDIX C

LEACHATE POND ACTIVITIES

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE
January-2021**

DAY OF MONTH	PUMP RUN TIME					Calculated GPM	LEACHATE VOLUME				LEACHATE POND LEVEL (Feet)	LEAK DETECTION			DAILY RAINFALL ⁵ (Inches)	LEACHATE UNDERDRAIN				COMMENTS
	PUMP #1		PUMP #2		COMBINED TOTAL (Minutes)		PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW (gallons)	TOTAL ⁷ (gallons)		Initial ⁶ (Hours)	End ⁶ (Hours)	Total (Minutes)	Total Flow (Gallons)	
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)										
1			9,079.4	9,087.5	486	501	243,000	243,500	500	0.2%	2.49	11.40	0		6622.4	6649.2	1608	40200		
2					0				0					0.037			0	0		
3	8,712.7	8,719.7			420	501	210,000	210,400	400	0.2%			0				0	0		
4			9,087.5	9,101.3	828	500	414,000	414,050	50	0.0%	2.33	11.20	0		6649.2	6692.2	2580	64500		
5					0				0					0.132			0	0		
6	8,719.7	8,726.2			390	500	195,000	195,010	10	0.0%	2.37	11.10	0		6692.2	6715.6	1404	35100		
7					0				0					0.002			0	0		
8			9,101.3	9,108.5	432	500	216,000	216,200	200	0.1%	2.51	11.10	0		6715.6	6740.6	1500	37500		
9					0				0					0.000			0	0		
10	8,726.2	8,731.9			342	501	171,000	171,250	250	0.1%			0				0	0		
11			9,108.5	9,115.3	408	500	204,000	204,100	100	0.0%	2.32	10.70	0		6740.6	6760.8	1212	30300		
12					0				0					0.000			0	0		
13	8,731.9	8,737.5			336	500	168,000	168,025	25	0.0%	2.52	10.70	0		6760.8	6791.3	1830	45750		
14					0				0					0.000			0	0		
15			9,115.3	9,121.8	390	500	195,000	195,150	150	0.1%	2.38	10.50	0		6791.3	6804.7	804	20100		
16					0				0					0.000			0	0		
17					0				0					0.000			0	0		
18			9,121.8	9,128.7	414	501	207,000	207,500	500	0.2%	2.49	10.80	0		6804.7	6828.8	1446	36150		
19					0				0					0.020			0	0		
20	8,737.5	8,743.3			348	501	174,000	174,325	325	0.2%	2.72	10.70	0		6828.8	6856.1	1638	40950		
21					0				0					0.006			0	0		
22			9,128.7	9,135.2	390	500	195,000	195,142	142	0.1%	2.60	10.80	0		6856.1	6879.3	1392	34800		
23					0				0					0.000			0	0		
24					0				0					0.000			0	0		
25	8,743.3	8,748.8			330	500	165,000	165,136	136	0.1%	2.73	10.50	0		6879.3	6908.4	1746	43650		
26					0				0					0.000			0	0		
27			9,135.2	9,141.0	348	502	174,000	174,560	560	0.3%	2.65	10.50	0		6908.4	6912.7	258	6450		
28					0				0					0.000			0	0		
29	8,748.8	8,754.7			354	500	177,000	177,000	0	0.0%	2.46	10.60	0		6912.7	6935.8	1386	34650		
30					0				0					0.037			0	0		
31			9,141.0	9,146.9	354	500	177,000	177,000	0	0.0%			0				0	0		
							3,285,000	3,288,348							0.234		18,804	470,100		
							205,313													
							143													

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered flow from Flowmeter in Flow Meter Building.
 4. Difference is calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow, minus 100%.
 5. Rainfall as measured at leachate pump station adjacent to leachate pond.
 6. Total pumping time from underdrain pump run time meter located in the leachate pump station building. Average flow assumed to be 25 gallons per minute.
 7. Leak detection flow meter is not working and will be replaced in the spring of 2021.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE
March-2021**

DAY OF MONTH	PUMP RUN TIME				LEACHATE VOLUME				LEACHATE POND LEVEL (Feet)	LEAK DETECTION			DAILY RAINFALL ⁵ (Inches)	LEACHATE UNDERDRAIN				COMMENTS	
	PUMP #1		PUMP #2		COMBINED TOTAL (Minutes)	PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴		LEVEL (Inches)	FLOW (gallons)	TOTAL (gallons)		Initial (Hours)	End (Hours)	Total (Minutes)	Total Flow (Gallons)		
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)				(Gallons)											(%)
1	8,776	8,776	9,167	9,167	0	0	0	0	2.59	16.80		0.392	7145.7	7168.1	1344.000	33600			
2					0	0	0	0							0	0			
3	8,776	8,778			144	84,240	84,500	260	0%	2.10	18.70		0.226	7168.1	7189.2	1266	31650		
4					0	0	0	0							0	0			
5	8,778	8,780			108	63,180	63,200	20	0%	2.52	16.90		0.000	7189.2	7199.6	624	15600		
6					0	0	0	0							0	0			
7					0	0	0	0							0	0			
8			9,167	9,172	276	161,460	162,000	540	0%	2.36	15.30		0.000	7199.6	7224.6	1500	37500		
9					0	0	0	0							0	0			
10					0	0	0	0	2.56	14.80		0.000	7224.6	7242.7	1086	27150			
11					0	0	0	0							0	0			
12	8,780	8,784			276	161,460	162,100	640	0%	2.61	18.50		0.000	7242.7	7255.0	738	18450		
13					0	0	0	0							0	0			
14					0	0	0	0							0	0			
15			9,172	9,178	378	221,130	221,500	370	0%	2.68	10.90		0.000	7255.0	7288.7	2022	50550		
16	8,784	8,790			318	186,030	186,230	200	0%						0	0			
17			9,178	9,183	312	182,520	183,000	480	0%	2.62	10.40		0.000	7288.7	7311.6	1374	34350	Flow at 530 GPM at 5:30	
18					0	0	0	0							0	0			
19			9,183	9,188	294	171,990	172,000	10	0%	2.27	9.90		0.000	7311.6	7335.6	1440	36000		
20	8,790	8,798			510	288,150	290,000	1,850	-1%	2.30	9.50		0.000	7335.6	7346.0	624	15600	Lowered floats for summer level	
21	8,798	8,803			264	151,800	152,000	200	0%	1.94	9.60		0.000	7346.0	7353.2	432	10800		
22			9,188	9,197	528	298,848	300,000	1,152	0%	1.89	9.60		0.000	7353.2	7360.4	432	10800		
23	8,803	8,812			552	267,720	267,450	-270	0%	1.92	9.60		0.000	7360.4	7377.7	1038	25950		
24			9,197	9,221	1,440	800,640	800,000	-640	0%	2.24	9.80		0.000	7377.7	7391.4	822	20550	585 GPM flow rate	
25	8,812	8,831			1,152	600,192	600,000	-192	0%	2.41	9.40		0.055	7391.4	7408.0	996	24900		
26			9,221	9,249	1,674	649,512	650,000	488	0%	1.86	9.00		0.110	7408.0	7424.0	960	24000		
27	8,831	8,851			1,200	500,400	500,000	-400	0%	1.25	9.00		0.546	7424.0	7444.4	1224	30600	Flow reading have entrained air in them causing varying readings.	
28			9,249	9,255	348	160,080	160,000	-80	0%	1.00	8.50		0.001	7444.4	7449.1	282	7050		
29	8,851	8,869			1,086	610,332	610,000	-332	0%	0.90	8.90		0.685	7449.1	7483.3	2052	51300		
30	8,869	8,893			1,440	810,720	810,000	-720	0%	1.24	8.60		0.006	7483.3	7507.5	1452	36300		
31	8,893	8,912			1,164	670,464	670,000	-464	0%	1.89	9.00		0.000	7507.5	7531.3	1428	35700		
					Total	13,464	7,040,868	7,043,980	3,112				2.021			23,136	578,400		
					Average	434	234,696												

Notes:

1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
3. Metered volume from flow meter in Flow Meter Building.
4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
5. Daily rainfall measured at the landfill facility.
6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
7. Leak Detection flow meter is not working and will be replaced in the spring of 2020.
8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow 25 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE
April-2021**

DAY OF MONTH	PUMP RUN TIME					LEACHATE VOLUME				POND LEVEL ⁶ (Feet)	LEAK DETECTION ⁷			DAILY RAINFALL ⁵ (Inches)	LEACHATE UNDERDRAIN ⁸				COMMENTS
	PUMP #1		PUMP #2		COMBINED TOTAL (Minutes)	PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW (gallons)	TOTAL (gallons)		Initial (Hours)	End (Hours)	Total (Minutes)	Total Flow (Gallons)	
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)				(Gallons)	(%)										
1	8,912	8,943	9,255	9,255	1,842	802,191	802,171	-20	0%	1.89	9.00			0.000	7,531	7,555.1	1,428	35,700	
2	8,943	8,967			1,410	614,055	614,055	0	0%	1.21	8.00			0.038	7,555.1	7,578.8	1422	35,550	
3	8,967	8,986			1,146	499,083	499,083	0	0%	0.95	11.50			0.000	7,578.8	7,589.5	642	16,050	pump failed
4	8,986	9,001			930	405,015	405,015	0	0%	0.99	17.60			0.000	7,589.5	7,589.5	0	0	
5	9,001	9,017			966	420,693	420,693	0	0%	1.96	17.40			0.105	7,589.5	7,589.5	0	0	
6	9,017	9,019			78	33,969	33,969	0	0%	1.18	25.60			0.040	7,589.5	7,589.5	0	0	
7	9,019	9,024			348	151,554	151,554	0	0%	1.42	29.00			0.018	7,589.5	7,590.0	30	750	
8	9,024	9,032			432	188,136	188,136	0	0%	1.41	23.50			0.000	7,590.0	7,590.0	0	0	
9			9,255	9,264	576	250,848	250,848	0	0%								0	0	
10	9,032	9,032			0					2.16	22.10			0.000	7,590.0	7,613.0	1380	34,500	
11			9,264	9,274	618	269,139	269,139	0	0%	1.39	21.40			0.003	7,613.0	7,637.1	1446	36,150	
12	9,032	9,040			516	224,718	224,718			1.40	21.40			0.003	7,637.1	7,637.1	0	0	
13										1.67	18.90			0.001	7,637.1	7,661.1	1,440	18,000	temp pump installed
14			9,274	9,283	510	222,105	222,105	0	0%	1.58	16.80			0.000	7,661.1	7,685.4	1,458	18,225	
15			9,283	9,284	84	36,582	36,582	0	0%	1.45	15.10			0.000	7,685.4	7,707.6	1,332	16,650	
16			9,284	9,292	444	193,362	193,362	0	0%	1.56	13.70			0.000	7,707.6	7,732.1	1,470	18,375	
17	9,040	9,046			330	143,715	143,715	0	0%	1.40	12.60			0.088	7,732.1	7,757.0	1,494	18,675	
18	9,046	9,049			180	78,390	78,390	0	0%	1.64	13.20			0.163	7,757.0	7,781.5	1,470	18,375	
19			9,292	9,301	528	229,944	229,944	0	0%	1.30	13.20			0.010	7,781.5	7,805.1	1,416	17,700	
20																	0	0	
21	9,049	9,057			480	209,040	209,040	0		1.33	13.60			0.020	7,805.1	7,853.1	2,880	36,000	
22								0									0	0	
23			9,301	9,309	486	211,653	211,653	0	0%	1.41	15.70			0.089	7,853.1	7,900.7	2,856	35,700	
24																	0	0	
25																	0	0	
26	9,057	9,064			450	195,975	195,975			1.54	17.50			0.032	7,900.7	7,973.0	4,338	54,225	
27								0									0	0	
28			9,309	9,316	468	203,814	203,814	0	0%	1.44	15.70			0.002	7,973.0	8,021.3	2,898	36,225	
29																	0	0	
30			9,316	9,324	462	201,201	201,201			1.38	14.70			1.000	8,021.3	8,068.0	2,802	35,025	changed battery in rain gauge
31																	0	0	

Total Pumped = 13,284 5,785,182 1.612 32202 481875

Notes:

1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
3. Metered volume from flow meter in Flow Meter Building.
4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
5. Daily rainfall measured at the landfill facility.
6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
7. Leak Detection flow meter is not working and will be replaced in the spring of 2021.
8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow 25 gpm.
9. Replacement temporary pump flow rate assumed to be 12.5 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE
May-2021**

DAY OF MONTH	PUMP RUN TIME				COMBINED TOTAL (Minutes)	Flow (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL ⁶ (Feet)	LEAK DETECTION ⁷			DAILY RAINFALL ⁵ (Inches)	LEACHATE UNDERDRAIN ⁸				COMMENTS	
	PUMP #1		PUMP #2				PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴ (Gallons)	DIFFERENCE ⁴ (%)		LEVEL (Inches)	FLOW (gallons)	TOTAL (gallons)		Initial (Hours)	End (Hours)	Total (Minutes)	Total Flow (Gallons)		
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)																	
1	9,064	9,064	9,324	9,324											8,068	8,068.0					
2	9,064	9,085			1,248	556	693,888	693,990	102	0%											
3			9,324	9,334	594	556	330,264	330,350	86	0%	1.08	8.00			0.000	8,068.0	8,141.1	4386	54,825		
4	9,085	9,087			108	556	60,048	60,100	52	0%											
5			9,334	9,342	504	556	280,224	280,400	176	0%	1.31	5.00			0.024	8,141.1	8,189.2	2886	36,075		
6																					
7	9,087	9,095			492	556	273,552	273,700	148	0%	1.48	22.60			0.466	8,189.2	8,237.1	2874	35,925		
8			9,342	9,357	852	556	473,712	473,850	138	0%											
9																					
10	9,095	9,099			258	557	143,448	143,600	152	0%	1.06	25.00			0.000	8,237.1	8,296.3	3552	44,400		
11			9,357	9,357	24	557	13,344	13,375	31	0%											
12	9,099	9,107			474	556	263,544	263,700	156	0%	1.20	24.00			0.475	8,296.3	8,344.4	2,886	36,075		
13																					
14			9,357	9,365	462	557	256,872	257,120	248	0%	1.15	23.00			0.045	8,344.4	8,392.4	2,880	36,000		
15																					
16																					
17	9,107	9,115			486	556	270,216	270,450	234	0%	1.26	23.00			0.592	8,392.4	8,463.1	4,242	53,025		
18																					
19			9,365	9,372	444	556	246,864	247,050	186	0%	1.34	23.00			0.004	8,463.1	8,510.0	2,814	35,175		
20																					
21																					
22	9,115	9,123			432	556	240,192	240,350	158	0%	1.36	10.30			0.183	8,510.0	8,577.9	4,074	50,925		
23																					
24			9,372	9,374	120	557	66,720	66,800	80	0%	1.08	8.50			0.058	8,577.9	8,597.3	1,164	14,550		
25																					
26			9,374	9,379	318	557	176,808	177,100	292	0%	1.38	8.40			0.123	8,597.3	8,599.2	114	2,850	UD-Pump by-passed	
27																					
28	9,123	9,129			390	557	216,840	217,048	208	0%	1.18	6.40			0.000	8,599.2	8,609.8	636	15,900	UD Pump Forcemain Cleaned	
29																					
30																					
31	9,129	9,152			1,380	556	767,280	767,280	0	0%	0.50	7.10			0.759	8,626.0	8,649.4	1,404	35,100		
Total					8,586	556	4,773,816	4,776,263	2,447						2.729			34,884	436,050		

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered volume from flow meter in Flow Meter Building.
 4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
 5. Daily rainfall measured at the landfill facility.
 6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
 7. Leak Detection flow meter is not working and will be replaced in the spring of 2021.
 8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed pumping rate of 12.5 gpm prior to forcemain cleaning and after forcemain cleaning.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE
June-2021**

DAY OF MONTH	PUMP RUN TIME				Flow (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL ⁶ (Feet)	LEAK DETECTION ⁷			LEACHATE UNDERDRAIN ⁸				DAILY RAINFALL ⁵ (Inches)	COMMENTS	
	PUMP #1		PUMP #2			COMBINED TOTAL (Minutes)	PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴		LEVEL (Inches)	FLOW (gallons)	TOTAL (gallons)	Initial (Hours)	End (Hours)	Total (Minutes)	Total Flow (Gallons)			
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)											(%)
1	9,152	9,152	9,379	9,379	0	0				0.64	7.80	NA	NA	8649.4	8649.4	0	0			
2	9,152	9,156			240	450	108,000	108,000	0	0%				8649.4	8659.6	612	15300	0.208		
3					0		0			#DIV/0!							0			
4					0		0			0.79	8.10	NA	NA	8659.6	8664.5	294	7350	0.041		
5					0		0			#DIV/0!							0			
6					0		0										0			
7					0		0			0.96	8.60	NA	NA	8664.5	8671.3	408	10200	0.093		
8					0		0			#DIV/0!							0			
9					0		0			1.13	8.90	NA	NA	8671.3	8675.9	276	6900	0.000		
10					0		0										0			
11					0		0			1.08	8.00	NA	NA	8675.9	8680.1	252	6300	0.000		
12					0		0			#DIV/0!							0			
13					0		0										0			
14					0		0			1.27	7.90	NA	NA	8680.1	8685.6	330	8250	0.000		
15					0		0			#DIV/0!							0			
16					0		0			1.28	7.60	NA	NA	8685.6	8689.3	222	5550	0.128		
17					0		0			#DIV/0!							0			
18					0		0			1.32	7.10	NA	NA	8689.3	8692.6	198	4950	0.000		
19					0		0										0			
20					0		0										0			
21					0		0			1.81	5.80	NA	NA	8692.6	8697.2	276	6900	0.339		
22					0		0			#DIV/0!							0			
23					0		0			1.72	6.00	NA	NA	8697.2	8700.2	180	4500	0.611		
24					0		0			#DIV/0!							0			
25					0		0			-0.97	6.20	NA	NA	8700.2	8700.7	30	750	0.000		
26					0		0										0			
27					0		0										0			
28					0		0			-0.91	19.90	NA	NA	8700.7	8700.7	0	0	0.119		
29					0		0			#DIV/0!							0			
30					0		0			-0.90	16.60	NA	NA	8700.7	8700.7	0	0	0.148		
31																	0			
Total					240		108,000	108,000									3,078	76,950	1.687	

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered volume from flow meter in Flow Meter Building.
 4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
 5. Daily rainfall measured at the landfill facility.
 6. Leachate Pond Level as measured in the Leachate Pump Wet Well for positive numbers and hand measurements for negative numbers.
 7. Leak Detection flow meter is not working and will be replaced in 2021.
 8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow 25 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL
EAST MILLINOCKET, MAINE
July-2021**

DAY OF MONTH	PUMP RUN TIME				COMBINED TOTAL (Minutes)	Flow (GPM)	LEACHATE VOLUME		DIFFERENCE		LEACHATE POND LEVEL ⁶ (Feet)	LEAK DETECTION		LEACHATE UNDERDRAIN		DAILY RAINFALL ⁵ (Inches)	COMMENTS		
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)			PUMPED ² (Gallons)	METERED ³ (Gallons)	(Gallons)	(%)		LEVEL (Inches)	FLOW ⁷ (gallons)	TOTAL ⁷ (gallons)	Initial ⁸ (Hours)			End ⁸ (Hours)	Total (Minutes)
1	9,156	9,156	9,379	9,379	0		0		0		-0.87	20.10		8700.7	8700.7	-	-	0.298	
2									0					8700.7	8700.7	-	-		
3									0							-	-		
4									0							-	-		
5									0							-	-		
6									0							-	-		
7									0		-0.86	24.20		8700.7	8700.7	-	-	0.000	
8									0							-	-		
9									0		2.21	19.80		8700.7	8702.1	84	2,100	0.000	
10									0							-	-		
11									0							-	-		
12			9,379	9,380	36	458	16,488	16,500	12	-0.1%	1.52	18.00		8702.1	8705.3	192	4,800	2.246	
13									0							-	-		
14									0							-	-		
15									0							-	-		
16									0							-	-		
17									0							-	-		
18									0							-	-		
19									0							-	-		
20									0							-	-		
21			9,380	9,381	36	458	16,488	16,500	12	0%	0.91	9.80		8705.3	8725.8	1,230	30,750	0.926	
22			9,381	9,428	2,850	270	769,500	769,900	400	0%						-	-		
23	9,156	9,204			2,886	270	779,220	780,000	780	0%	-2.01	4.40		8725.8	8729.7	234	5,850	0.467	
24									0							-	-		
25			9,428	9,494	3,972	230	913,560	914,000	440	0%						-	-		
26	9,204	9,205			72	300	21,600	21,600	0	0%	-2.03	4.20		8729.7	8736.1	384	9,600	0.158	
27									0							-	-		
28									0							-	-		
29									0							-	-		
30									0							-	-		
31									0							-	-		
					Total	9,852	2,516,856								2,124	53,100	4,095		

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered volume from flow meter in Flow Meter Building.
 4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
 5. Daily rainfall measured at the landfill facility.
 6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
 7. Leak Detection flow meter is not working and will be replaced in the fall of 2021.
 8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow 25 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL
EAST MILLINOCKET, MAINE
August-2021**

DAY OF MONTH	PUMP RUN TIME					FLOW (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL ⁶ (Feet)	LEAK DETECTION			LEACHATE UNDERDRAIN				DAILY RAINFALL ⁵ (Inches)	COMMENTS
	PUMP #1		PUMP #2		COMBINED TOTAL (Minutes)		PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW ⁷ (gallons)	TOTAL ⁷ (gallons)	Initial ⁸ (Hours)	End ⁸ (Hours)	Total (Minutes)	Total Flow (Gallons)		
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)										
1	9,205	9,205	9,494	9,494	0															
2					0															
3	9,205	9,212			396	540	213,840	214,000	160	0%										
4			9,494	9,517	1,356	540	732,240	732,240	0	0%										
5					0															
6					0															
7					0															
8					0															
9					0															
10					0															
11					0															
12					0															
13					0															
14					0															
15					0															
16					0						0.50	7.70	8736.1	8770.7	2076	51900	0.000			
17					0															
18					0						0.56	7.90	8770.7	8773.2	150	3750	0.000			
19					0															
20					0						0.62	8.80	8773.2	8775.6	144	3600	0.001			
21					0															
22					0															
23					0						0.70	8.80	8775.6	8778.9	198	4950	0.700			
24					0															
25					0						0.98	8.10	8778.9	8781.3	144	3600	2.584			
26					0															
27					0						1.04	8.20	8781.3	8784.9	216	5400	0.002			
28					0															
29					0															
30					0															
31					0						1.22	6.80	8784.9	8790.4	330	8250	0.035			
					Total	1,752		946,080							3,258	81,450	3.322			

Notes:

1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
3. Metered volume from flow meter in Flow Meter Building.
4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
5. Daily rainfall measured at the landfill facility.
6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
7. Leak Detection flow meter is not working and will be replaced in the fall of 2021.
8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow 25 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL
EAST MILLINOCKET, MAINE
September-2021**

DAY OF MONTH	PUMP RUN TIME				COMBINED TOTAL (Minutes)	FLOW (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL ⁶ (Feet)	LEAK DETECTION			DAILY RAINFALL ⁵ (Inches)	LEACHATE UNDERDRAIN				COMMENTS
	PUMP #1		PUMP #2				PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW ⁷ (gallons)	TOTAL ⁸ (gallons)		Initial ⁸ (Hours)	End ⁸ (Hours)	Total (Minutes)	Total Flow (Gallons)	
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)										
1	9,212	9,212	9,517	9,517	0						1.29	6.90		0.022	8790.4	8793.8	204	5100		
2					0															
3	9,212	9,213			90	1,392	67,500	125,287	57,787	-46%	1.42	4.90		0.936	8793.8	8796.9	186	4650	Volume Difference due to Leachate Line Filling after cleaning	
4					0															
5					0															
6					0						1.45	5.60		0.163	8796.9	8801.8	294	7350		
7					0															
8					0															
9					0						1.47	5.00		0.313	8801.8	8805.0	192	4800		
10					0						1.61	4.60		1.780	8805.0	8808.4	204	5100		
11					0															
12					0															
13					0						2.16	12.60		0.042	8808.4	8809.7	78	1950		
14					0															
15	9,213	9,226			726	750	544,500	544,500	0	0.00	1.38	22.00		0.000	8809.7	8809.7	0	0	Underdrain Pump Stopped due to fouling and faulty float switch	
16					0															
17					0						1.59	27.00		0.611	8809.7	8809.7	0	0		
18					0															
19					0															
20	9,226	9,227			60	800	42,000	48,000	6,000	-13%	1.74	36.00		0.841	8809.7	8809.7	0	0	Pump #1 cycling causing error in due to grounding issues	
21					0															Undrain Pump Repaired
22					0						1.97	8.70		0.000	8809.7	8835.6	1554	38850		
23					0															
24	9,227	9,239			720	700	504,000	504,000	0	0%	1.47	19.70		0.002	8835.6	8835.6	0	0		
25					0															
26					0															
27	9,239	9,260			1,302	700	911,400	911,400	0	0%	1.83	23.40		3.279	8835.6	8907.2	4296	107400		
28					0															
29			9,517	9,535	1,062	700	743,400	743,400	0	0%	1.81	19.90		0.000	8907.2	8955.1	2874	71850		
30					0															
					Total		2,812,800							7.967			9,882		247,050	
					Average		468,800													
							326													

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered volume from flow meter in Flow Meter Building.
 4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
 5. Daily rainfall measured at the landfill facility.
 6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
 7. Leak Detection flow meter is not working and will be replaced in the fall of 2021.
 8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow 25 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL
EAST MILLINOCKET, MAINE
October-2021**

DAY OF MONTH	PUMP RUN TIME				COMBINED TOTAL (Minutes)	FLOW (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL ⁶ (Feet)	LEAK DETECTION			LEACHATE UNDERDRAIN				DAILY RAINFALL ⁵ (Inches)	COMMENTS	
	PUMP #1		PUMP #2				PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			TOTAL ⁷ (gallons)	Initial ⁸ (Hours)	End ⁸ (Hours)	Total (Minutes)	Total Flow (Gallons)					
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)							LEVEL (Inches)	FLOW ² (gallons)			
1	9,260	9,264	9,535	9,535	198	650	128,700	128,700	0	0.0%	2.01	15.5			8955.1	9003.2	2886.000	72150.000	0.012		
2																					
3																					
4			9,535	9,552	1,062	650	690,300	690,300	0	0.0%	1.54	9.5			9003.2	9075.5	4338	108450	0.033	Pump #1 Removed / Out for repairs	
5															9075.5	9123.3	2868	71700	0.002		
6											1.99	8.0			9123.3	9171.3	2880	72000	0.000		
7			9,552	9,555	156	620	96,720	96,720	0	0.0%	1.82	7.8			9123.3	9171.3	2880	72000	0.000		
8																					
9																					
10																					
11			9,555	9,565	588	620	364,560	364,560	0	0.0%	1.52	16.8			9171.3	9173.5	132	3300	0.000		
12																					
13			9,565	9,565	0	0	0	0	0	#DIV/0!	1.55	26.9			9173.5	9177.5	240	6000	0.000		
14																					
15			9,565	9,565	0	0	0	0	0	#DIV/0!	1.66	32.5			9177.5	9177.5	0	0	0.005		
16																					
17															9177.5	9190.2	762	19050			
18			9,565	9,575	618	630	389,340	389,340	0	0.0%	1.66	8.9			9190.2	9196.7	390	9750	1.981		
19																					
20			9,575	9,586	636	630	400,680	400,680	0	0.0%	1.55	7.9			9196.7	9206.9	612	15300	0.008		
21																					
22			9,586	9,587	60	630	37,800	37,800	0	0.0%	1.70	17.1			9206.9	9208.9	120	3000	0.042	Underdrain Pump Failure Noted	
23																					
24																					
25			9,587	9,596	564	630	355,320	355,320	0	0.0%	1.56	26.0			9208.9	9208.9	0	0	0.000		
26																					
27			9,596	9,600	240	630	151,200	151,200	0	0.0%	1.60	32.0			9208.9	9208.9	0	0	0.000		
28																					
29																					
30			9,600	9,607	390	630	245,700	245,700	0	0.0%	1.70	32.6			9208.9	9208.9	0	0	2.000		
31																					
					Total	4,512	2,860,320										15,228	380,700	4.083		

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered volume from flow meter in Flow Meter Building.
 4. Difference calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow minus 100%.
 5. Rainfall measured at the landfill facility.
 6. Leachate Pond Level as measured in the Leachate Pump Wet Well.
 7. Leak Detection flow meter transducer and control panel do not agree and will be repaired by Stevens Pump this Fall.
 8. Total pumping time from underdrain pump run time meter located in leachate pump station building. Assumed flow of 25 gpm.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL
EAST MILLINOCKET, MAINE
November-2021**

DAY OF MONTH	PUMP RUN TIME				COMBINED TOTAL (Minutes)	Flow (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL (Feet)	LEAK DETECTION			DAILY RAINFALL ⁵ (Inches)	LEACHATE POND UNDERDRAIN				COMMENTS
	PUMP #1		PUMP #2				PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW (gallons)	TOTAL (gallons)		Initial ⁶ (Hours)	End ⁶ (Hours)	Total (Minutes)	Total Flow (Gallons)	
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)										
1	9.264	9.264	9.607	9.607	0	0	0	0	0.0%	2.05	45.20	0	0	0.004	9208.9	9208.9	0	0	Underdrain pump down	
2																	0	0		
3			9.607	9.628	1,266	645	816,570	816,570	0	0.0%	1.68	39.60	0	0	0.000			0	0	
4																	0	0		
5			9.628	9.631	180	645	116,100	116,100	0	0.0%	1.97	44.00	0	0	0.000			0	0	
6																	0	0		
7																	0	0		
8			9.631	9.641	600	645	387,000	387,000	0	0.0%	2.07	44.10	0	0	0.000			0	0	
9																	0	0		
10			9.641	9.644	228	645	147,060	147,060	0	0.0%	2.05	44.10	0	0	0.005			0	0	
11																	0	0		
12			9.644	9.647	180	650	117,000	117,000	0	0.0%	2.08	44.50	0	0	0.000			0	0	
13																	0	0		
14																	0	0		
15			9.647	9.661	798	650	518,700	518,700	0	0.0%	2.11	44.90	0	0	0.435			0	0	
16																	0	0		
17			9.661	9.673	726	650	471,900	471,900	0	0.0%	1.92	41.60	0	0	0.001			0	0	
18																	0	0		
19			9.673	9.677	252	645	162,540	162,540	0	0.0%	2.04	44.40	0	0	0.358			0	0	
20																	0	0		
21																	0	0		
22			9.677	9.692	894	645	576,630	576,630	0	0.0%	2.02	44.50	0	0	0.119			0	0	
23																	0	0		
24			9.692	9.708	990	645	638,550	638,550	0	0.0%	2.22	45.20	0	0	0.000			0	0	
25																	0	0		
26			9.708	9.722	828	645	534,060	534,060	0	0.0%	1.96	43.20	0	0	0.000			0	0	
27																	0	0		
28																	0	0		
29			9.722	9.732	600	645	387,000	387,000	0	0.0%	2.04	44.10	0	0	0.249			0	0	
30																	0	0		
31																	0	0		
					Total	7,542	4,873,110	gallons/month						1.171			0	0		
					Average	580	157,197	gallons/day												
							109	gallons/minute												

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered flow from Flowmeter in Flow Meter Building.
 4. Difference is calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow, minus 100%.
 5. Rainfall as measured at leachate pump station adjacent to leachate pond.
 6. Total pumping time from underdrain pump run time meter located in the leachate pump station building. Average flow assumed to be 25 gallons per minute.
 7. Leak detection flow meter not operating and needs proper calibration.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL
EAST MILLINOCKET, MAINE
December-2021**

DAY OF MONTH	PUMP RUN TIME					FLOW (GPM)	LEACHATE VOLUME				LEACHATE POND LEVEL (Feet)	LEAK DETECTION			DAILY RAINFALL ⁵ (Inches)	LEACHATE POND UNDERDRAIN				COMMENTS
	PUMP #1		PUMP #2		COMBINED TOTAL (Minutes)		PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW (gallons)	TOTAL (gallons)		Initial ⁶ (Hours)	End ⁶ (Hours)	Total (Minutes)	Total Flow (Gallons)	
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)										
1	9,264	9,264	9,732	9,744	690	650	448,500	448,500	0	0.0%	2.02	41.20	0	0	0.000	9208.9	9208.9	0	0	Underdrain pump down
2													0	0				0	0	
3			9,744	9,745	54	650	35,100	35,100	0	0.0%	2.06	46.90	0	0	0.039			0	0	
4													0	0				0	0	
5													0	0				0	0	
6			9,745	9,759	846	650	549,900	549,900	0	0.0%	2.08	41.90	0	0	0.000			0	0	
7													0	0				0	0	
8			9,759	9,772	798	689	549,822	549,822	0	0.0%			0	0				0	0	
9													0	0				0	0	
10													0	0				0	0	
11													0	0				0	0	
12													0	0				0	0	
13			9,772	9,784	714	680	485,520	485,520	0	0.0%	1.84	44.00	0	0	0.644			0	0	
14													0	0				0	0	
15			9,784	9,796	696	680	473,280	473,280	0	0.0%	2.00	42.00	0	0	0.000			0	0	
16													0	0				0	0	
17			9,796	9,801	330	680	224,400	224,400	0	0.0%	2.10	44.30	0	0	0.332			0	0	
18													0	0				0	0	
19													0	0				0	0	
20			9,801	9,812	654	680	444,720	444,720	0	0.0%	2.12	44.00	0	0	0.012			0	0	
21													0	0				0	0	
22			9,812	9,823	666	680	452,880	452,880	0	0.0%	1.90	40.40	0	0	0.003			0	0	
23													0	0				0	0	
24			9,823	9,824	42	680	28,560	28,560	0	0.0%	2.10	45.70	0	0	0.003			0	0	
25													0	0				0	0	
26													0	0				0	0	
27			9,824	9,836	756	716	541,296	541,296	0	0.0%	1.95	41.80	0	0	0.000			0	0	
28													0	0				0	0	
29			9,836	9,836	0		0					2.26	46.00	0.348			0	0		
30					0		0						0	0				0	0	
31			9,836	9,841	306	680	208,080	208,080	0	0.0%	2.16	44.20	0	0	0.078			0	0	
					Total		4,442,058	gallons/month						1.459						
					Average		317,290	gallons/day												
							100	gallons/minute (average)												

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered flow from Flowmeter in Flow Meter Building.
 4. Difference is calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow, minus 100%.
 5. Rainfall as measured at leachate pump station adjacent to leachate pond.
 6. Total pumping time from underdrain pump run time meter located in the leachate pump station building. Average flow assumed to be 25 gallons per minute.
 7. Leak detection flow meter not operating and needs proper calibration.

**ATTACHMENT 1
LEACHATE FLOW DATA
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE
FEBRUARY 2022**

DAY OF MONTH	PUMP RUN TIME					Calculated GPM	LEACHATE VOLUME				LEACHATE POND LEVEL (Feet)	LEAK DETECTION				DAILY RAINFALL ⁵ (Inches)	LEACHATE POND UNDERDRAIN				COMMENTS
	PUMP #1		PUMP #2		COMBINED TOTAL (Minutes)		PUMPED ² (Gallons)	METERED ³ (Gallons)	DIFFERENCE ⁴			LEVEL (Inches)	FLOW (gallons)	TOTAL ⁷ (gallons)	Totalizer Reading		Initial ⁶ (Hours)	End ⁶ (Hours)	Total (Minutes)	Total Flow (Gallons)	
	INITIAL ¹ (Hours)	FINAL ¹ (Hours)	INITIAL ¹ (Hours)	FINAL ¹ (Hours)					(Gallons)	(%)											
1	9,286	9,286	9,878	9,878	0																
2										2.02	18.50	18.4		136,889	0.003	9209	9209	0	0		
3													2,916	139,805				0	0		
4										2.39	1.60	0						0	0		
5													8,133	147,938				0	0		
6																		0	0		
7	9,286	9,286			36	606	21,816	21,816	0	0.0%	2.50	3.80	0	10,103	158,041			0	0		
8																		0	0		
9	9,286	9,296			570	606	345,420	345,420	0	0.0%	2.44	1.70	0	3,947	161,988			0	0		
10																		0	0		
11										2.60	9.70	0	2,756	164,744	0.126			0	0		
12																		0	0		
13																		0	0		
14	9,296	9,302			372	585	217,620	217,695	75	0.0%	2.57	9.90	0	5,470	170,214	0.061		0	0		
15																		0	0		
16										2.78	10.20	0	4,863	175,077	0			0	0		
17																		0	0		
18	9,302	9,311			564	509	287,076	287,076	0	0.0%	2.94	6.30	0	4,973	180,050	0.522		0	0		
19																		0	0		
20																		0	0		
21	9,311	9,354			2,574	509	1,310,166	1,310,166	0	0.0%	2.80	1.30	0.0	10,209	190,259	0.144		0	0		
22																		0	0		
23	9,354	9,367			786	509	400,074	400,074	0	0.0%	2.70	8.40	18.5	2,519	192,778	0.195		0	0	STARTED SECOND PUMP	
24			9,878	9,893	930	509	473,370	473,370	0	0.0%								0	0		
25	9,367	9,416			2,922	509	1,487,298	1,487,298	0	0.0%	2.26	1.70	18.4	6,004	198,782	0		0	0		
26																		0	0		
27																		0	0		
28	9,416	9,428			738	509	375,642	375,642	0	0.0%	3.05	7.20	0.0	5,326	204,108	0		0	0		
29																		0	0		
30																		0	0		
31																		0	0		
							4,918,482							67219		1.051		TOTAL			
							175,660														
							122														

- Notes:
1. Pumped hours as indicated by pump time display located within the leachate pump station building adjacent to the leachate pond.
 2. Pumped Volume = Average flow rate (gallon per minute) x combined total (minutes).
 3. Metered flow from Flowmeter in Flow Meter Building.
 4. Difference is calculated as pumped flow minus metered flow. Percentage difference is pumped flow divided by metered flow, minus 100%.
 5. Rainfall as measured at leachate pump station adjacent to leachate pond.
 6. Total pumping time from underdrain pump run time meter located in the leachate pump station building. Average flow assumed to be 25 gallons per minute.

4/12/21

Memo to: E. Clark, M. Barden, L. Pizzuti, B Pierce, D. Angotti

From: M. Muzzy

Subject: Dolby Leachate Pond

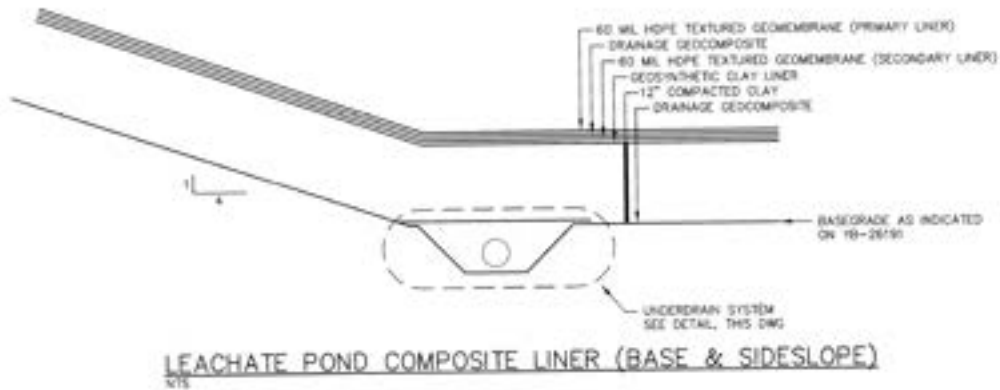
Over the last several days it has become apparent that a leak has developed in the leachate pond's liner system. The leak is evidenced by increased flows from the leak detection layer as well as possibly from the underdrain system. Measured specific conductivity in the leachate pond, leak detection system and underdrain system also suggest leachate is leaking from the leachate pond.

Background

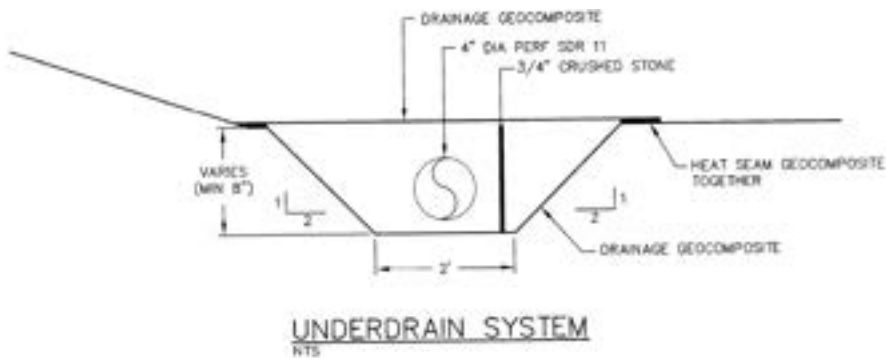
In 2007 the leachate pond was upgraded to a multi-layer liner system including leak detection. The then existing liner and sediment was removed (and placed into the landfill).



The replacement leachate pond liner system consists of the following layers in order of descending position:



The underdrain system consists of a network of shallow stone filled trenches with drainage geocomposite excavated into the pond's base grade. The underdrain piping connects to a central pipe that flows to the underdrain manhole. The underdrain pump was recently replaced with a temporary replacement and a new pump is expected in several weeks.



The underdrain system includes a layer of drainage geocomposite over the entire pond base.



A 12-inch layer of compacted clay overlies the underdrain and a geosynthetic clay liner (GCL) overlies the clay layer. The GCL supports a 60-mil HDPE secondary liner which is overlain by a drainage geocomposite. The drainage geocomposite slopes to a stone sump at the south end of the leachate pond. The drainage geocomposite and stone sump are covered with the primary 60-mil HDPE liner.

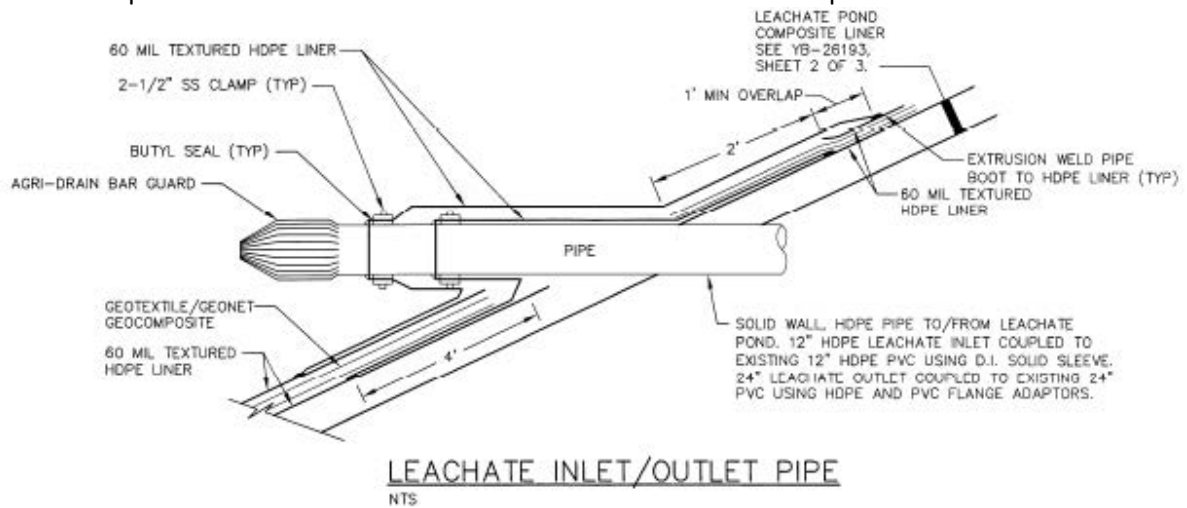




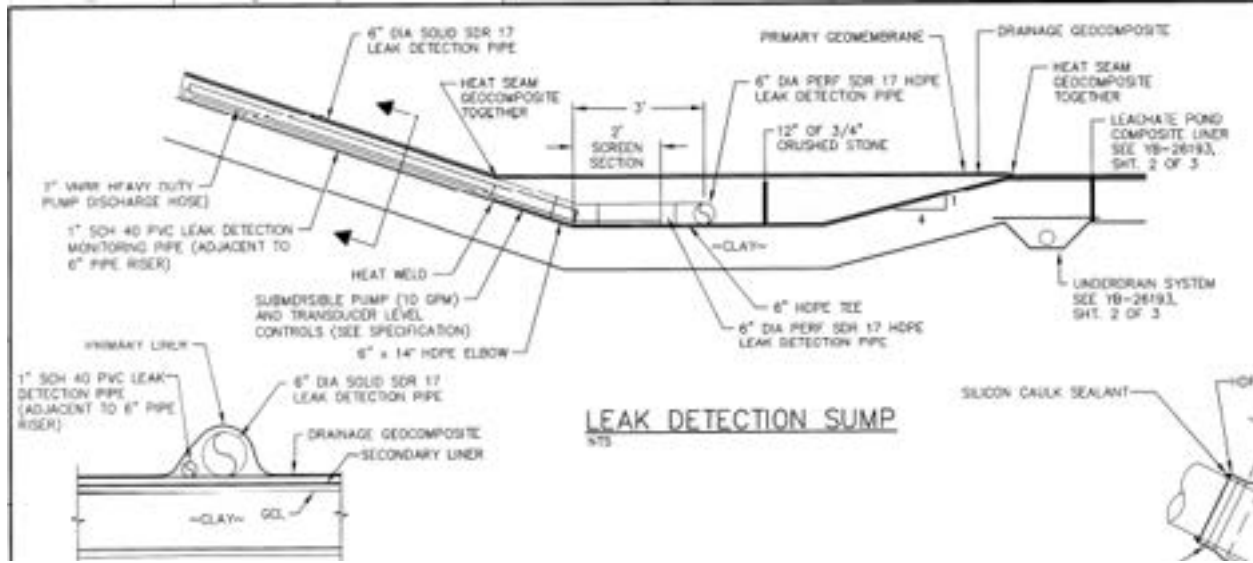


Three pipes penetrate all layers of the liner system. The pipes include : 1) a 24-inch diameter pipe inlet conveys leachate into the pond from the landfill, 2) a 12-inch diameter pipe outlet conveys leachate from the leachate pond into the pump station wet well, and 3) a 6-inch diameter pipe serves as a dry-hydrant line that can be used to pump leachate from the leachate pond into a tank truck if needed.

Each of the three pipes are surrounded by geomembrane boots that are welded to the primary and secondary HDPE liners as appropriate. The boots are also held on the pipes by one or more stainless steel bands. Experience has shown the stainless steel bands need to be replaced from time to time.



A separate 12-inch diameter pipe is a conduit that houses the leak detection pump and associated 2" diameter discharge pipe that is used to pump liquid collected between the primary and secondary liners. This 12" pipe conduit penetrates the primary liner above the ponds maximum leachate level. The leak detection systems 2" diameter discharge pipe passes through a manhole (where a flow meter is located) and then to the pump station wet well.



Current Conditions

During the approximate time period of April 1 through April 10 the underdrain and leak detection pump flows have been noticeably higher than typical and exhibit specific conductance (SV) values similar to the leachate in the leachate pond. On Sunday (4-11-21) the following SC values were reported:

Underdrain 642
 Leachate pond 886
 Leak detection system 980

Also, the leak detection water level was reported as being lowered ~16-inches by pumping only to see an approximate 2-inch rise in the leak detection water level in less than two minutes....suggesting leachate is leaking through the primary liner at one or more locations.

The SC in the underdrain could be a result of leakage from the leachate pond or from the groundwater captured by the underdrain. The current liner system was installed in 2007 and was a replacement for a single geomembrane that had reached its design life. Photographs of the liner replacement suggest that considerable leachate and possibly some solids from the leachate pond and likely entered the shallow soil in the underdrain area and could be influencing the SC of the underdrain collected underdrain water (see the first photo), however a leak could also be the cause or a combination of the two.

At this time, the following measures are being taken.

The underdrain is pumped automatically by way of a float actuated pump. However, as indicated in earlier communications, the permanent pump for the underdrain recently failed and a temporary pump is currently in place. The temporary pump is not equipped with a run time meter relative to estimating the underdrain flow rate.

The leak detection layer is being pumped in increments. Pump flows from the leak detection layer cannot be determined currently as the flow meter for that system is not working (repairs are scheduled for this spring).

The water level in the leachate pond is being lowered to allow direct observation of the pipe inlet /outlet points. The thinking is one or more of the stainless steel bands clamping a pipe boot to a pipe may have failed allowing leachate to flow from the pond into the leak detection system. If one or more of the band(s) are determined to be in need of replacement, temporary measures will be taken to reattach the pipe boot to the pipe. Once any bands are replaced monitoring of flow and SC from the underdrain and leak detection layer will be increased to evaluate if any changes have occurred.

Unless significant improvement is made relative to the inlet and outlet pipe points, the next step will likely be complete cleaning of the pond liner followed by a close inspection for holes in the primary HDEP liner.

Comment. As explained above, the overall liner system for the leachate pond consists of multiple layers of low permeability materials. It seems unlikely leachate is leaking quickly through the secondary liner then through the GCL, and then through the compacted clay at a rate sufficient to cause the current underdrain flows. The spring of each year typically represents the highest groundwater levels and such condition seems most reasonable for causing the underdrain flows. The underdrain SC is bothersome; it could be an artifact of high groundwater comingling with the shallow soils forming the leachate pond before the current liner system was installed. It is worth noting that the underdrain pump failed a week or so ago which likely resulted in unwanted high levels of groundwater in the underdrain system, which could have reached the shallow soils affected by the old leachate pond liner discussed earlier.

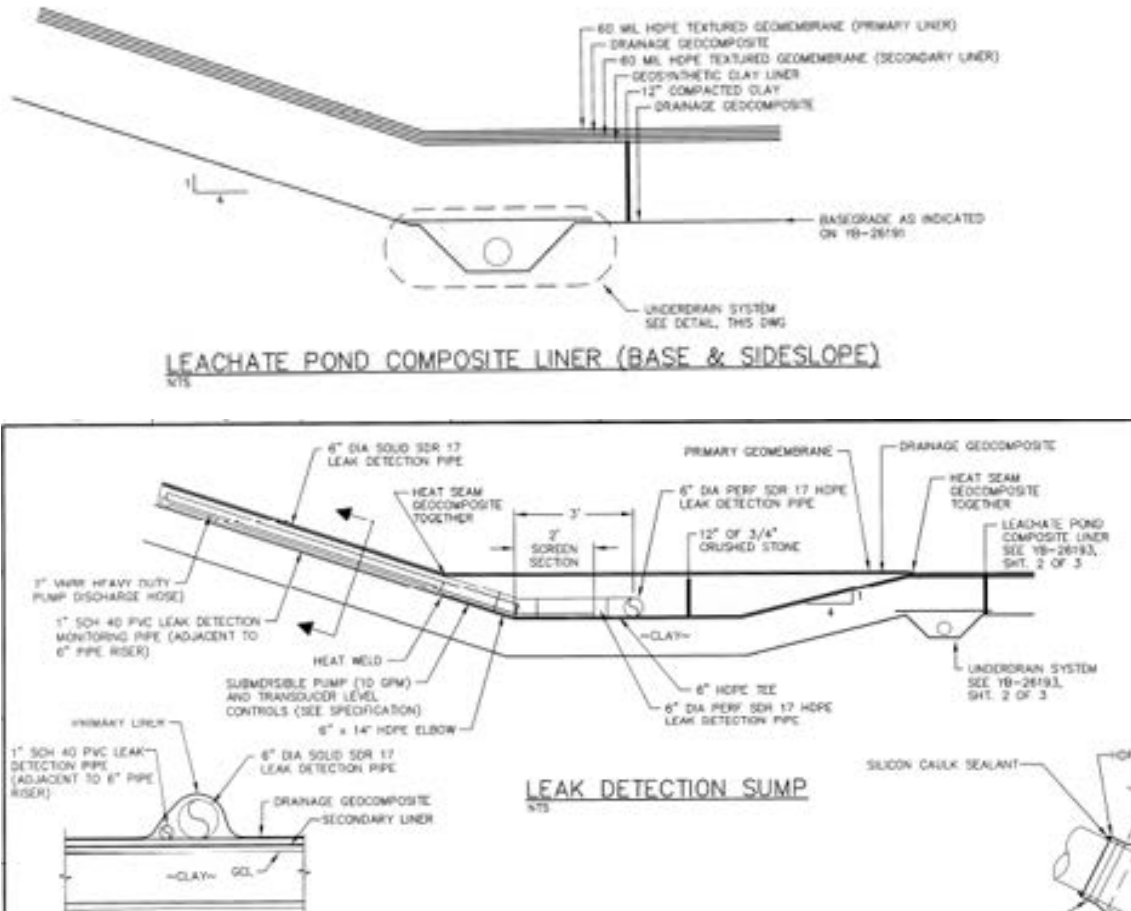
Recommendation.

DAFS, MEDEP, and SME should arrange a phone conversation to discuss the pond and mitigation measures. Dick A. says the pond will be pumped to its lowest practical point likely by Wednesday. He reminded me the pump station was not designed to fully empty the pond (to avoid migration of sediment into the pump station) and as such the pipe connecting to the pump station and the dry hydrant line will remain underwater. Typically, the pond is only pumped dry when the liner is cleaned, and that requires auxiliary pumping and trucking of sediment.

**PROPOSED WORK PLAN FOR
IDENTIFYING SOURCE OF LEAKAGE
INTO LEAK DETECTION SYSTEM
DOLBY LEACHATE POND
APRIL 19, 2021**

BACKGROUND

In 2007, the leachate pond was upgraded to a multi-layer liner system including a leak detection layer and an underdrain layer.



Recently, flow into the leak detection layer has increased substantially, indicating a leak into that layer has developed. There has been no apparent leak source detected. The source could be from one or more of the following:

- The banding attaching one or more of the geomembrane boots to its respective pipe penetration could have failed.
- A hole(s) in the primary liner could have developed.
- Though considered unlikely, a hole in the secondary liner layer(s) could have developed and the recent underdrain pump failure could have allowed groundwater in the underdrain layer to rise sufficiently to leak into the leak detection layer.

Specific conductivity readings in the underdrain layer are typically lower than both the leachate pond and leak detection layer; however, the specific conductivity for all three layers have been similar recently. Typically, it would be expected that a leak into the leak detection system would come from the leachate pond; thus, the specific conductivity in the leak detection layer would be similar to the that in the leachate pond.

The elevated specific conductivity in the underdrain is concerning for several reasons including that the underdrain is upgradient of two monitoring wells (i.e., MW-304A and B), which monitor shallow groundwater. Monitoring wells MW-304A and B are located approximately 170 feet downgradient of the leachate pond and were installed in 1983. The bottom of well screen for MW-304A is approximately 21.5 feet below ground surface and the bottom of the well screen for MW-304B is approximately 8.6 feet below ground surface. In 2020, specific conductivity in MW-304A was 211, 212, and 282 $\mu\text{mhos/cm}$ during the spring, summer, and fall monitoring events and the specific conductivity in MW-304B was 103, 116, and 41 $\mu\text{mhos/cm}$ for those same events.

SEQUENCE OF PROPOSED WORK

The following sequence of work allows evaluation of the leachate pond systems to better assess the cause and location of the leak. The sequence allows less intrusive work (data collection and observation) to occur before more intrusive and costly work is performed.

- 1) Allow the leachate pond and underdrain return to normal operating conditions. During this time, the underdrain pumping system will be returned to its normal float-actuated pumping condition and the pump(s) for the leachate pond will be placed in automatic mode for normal summer water level settings. During this time, Mid-South Engineering (MSE) will assist SME by performing the following.
 - a. Pump the Leak Detection System daily to its lowest practical level (6 to 7-inches).
 - b. Record Leak Detection System water elevation before and after pumping.
 - c. Record Leak Detection System run time before and after pumping.

- d. Measure and Record Leak Detection specific conductivity.
- e. Measure and Record the Underdrain specific conductivity.
- f. Record Leachate Pond Level (wet well level with the leachate pumps turned off).
- g. Measure and Record the Leachate Pond specific conductivity.
- h. Report all data to SME.

If clear changes in the leak detection flows occur, estimate the pond level at which the changes occur.

If it is determined that the leak is too large to be pumped from the leak detection system, then SME will address with MEDEP at that time.

- 2) While the underdrain is operating normally, pump down the leachate pond as low as practical using the leachate pond pump station. During this time, MSE will do the following:
 - a. Continue to pump the leak detection system daily and record the items listed in 1.a through 1.h above.

There will be some leachate left in the pond as the leachate outlet pipe is several inches above the pond bottom.

- 3) When the pond is at its lowest practical level, enter the pond and inspect the liner penetrations (i.e., pipe boots) including:
 - a. The presence and condition of bands on each of the three pipe boots. If pipe banding appears to be the problem install replacement bands. This will be done while some leachate is in the pond, so extra care/safety will be necessary.
- 4) Elevations of key leachate pond features from as-built drawings and ground survey.

The elevations will be used to avoid underdrain water levels that could potentially cause heaving (uplift) of the pond's liner system if further detection of the leak source is necessary.

Feature	Elevation
Top of Pond Liner	351.5
Invert of Pond Spillway	350.5
White Line on Pond Liner	348.5
Rim of Underdrain Manhole	348.2
Inverts of Pipes Entering/Exiting Pond	344.03 to 344.35
Top of Pond Liner at Approximate Pond Low Point	344.0 +/-
Invert of Underdrain at Approximate Pond Low Point	342.14

Invert of Underdrain into Underdrain Manhole	341.35
Bottom of Underdrain Manhole	TBD

The temporary benchmark on the top of the Leachate Pump Station wet well is the reference for the elevation measurements.

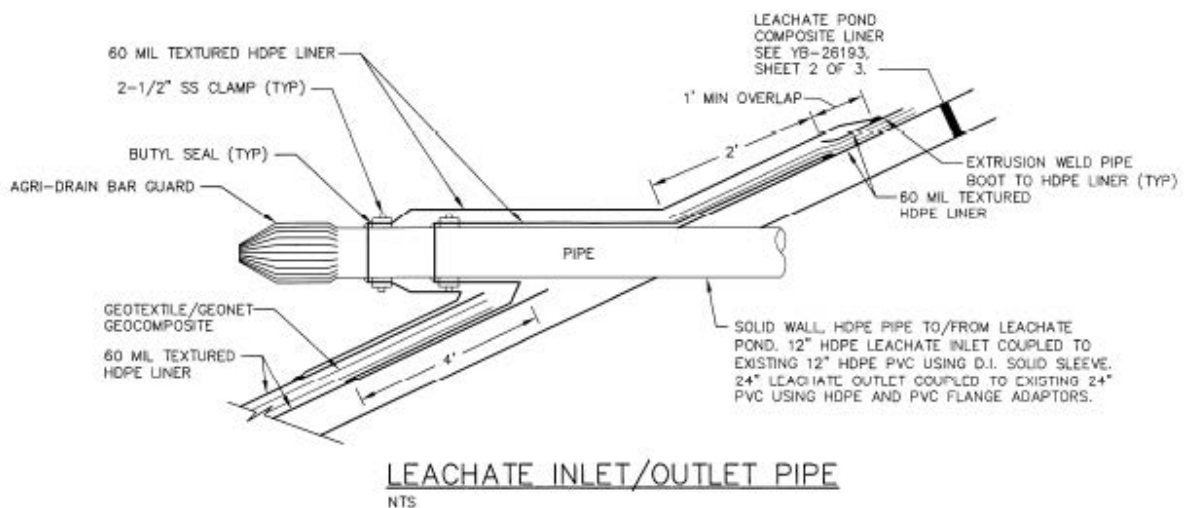
- 5) Provided an obvious pipe boot leak is not observed, begin filling the pond to approximately elevation 347.5 (one foot below the white line). Continue to operate the underdrain pumping system at low level while the pond fills. Continue to operate and monitor the leak detection pumping system, underdrain, and leachate pond daily as indicated in Section 1.
- 6) When the pond level is at approximately elevation 347.5 stop the underdrain pump and add dye to the underdrain manhole. Allow the underdrain water level to increase to elevation 346.5 while pumping from the leak detection layer daily. Daily measurements for the leak detection flow will follow the list in Section 1. The color of the leak detection flow will be observed daily. The intent of the dye test is to understand if groundwater is entering the leak detection layer.
- 7) Once the underdrain dye test has been completed, resume underdrain pumping and return the pond to its normal summer operating level. Lower and maintain the underdrain water level to its lowest practical level. Continue pumping the leak detection system daily and obtain the information in Section 1 above.
- 8) If no cause of leakage into the underdrain has been identified, lower the pond to its lowest level and clean the liner surface of all sediment. Lowering the pond for liner cleaning will require bypass pumping from Dolby III Manhole CB No. 3 to the pump station wet well and closing valves for the pond's inlet and outlet pipes. It will be critical at this time to keep the underdrain pump working. While the leachate level in the pond is being lowered, pump the leak detection system at least twice per day, recording the pump run time and the water elevation in the leachate pond. Use the slope distance from white line to track the pond level as pond lowering proceeds. It could come to pass that as the pond level is lowered, leakage into the leak detection layer slows or stops. Knowing the approximate pond elevation could be suggestive of where a hole(s) in the primary geomembrane liner could be located.

Lowering the pond level and cleaning the liner surface will require mobilization of a subcontractor to provide by-pass pumping from the landfill to the pump station and vacuum truck /hand equipment to clean the liner surface. All sediment from the pond will be placed in the temporary lagoon sludge storage cell on the top of the Dolby III landfill.

- 9) Inspect primary geomembrane liner for damage that could allow leachate from the pond to enter the leak detection system and repair hole(s), if found. Repair of the hole(s) will require a specialty subcontractor (e.g., RTD of Madison, Maine). Use of a leak detection (electrical resistivity) subcontractor will be considered as part of the visual inspection.
- 10) If the leak location has not been identified and repaired, it will be necessary to further investigate the pipe boots (see detail below). There are three pipes entering/exiting the pond. Each pipe has two pipe boots, one for the primary geomembrane liner and one for secondary geomembrane liner. The approach will be to remove the primary pipe boot(s) to expose the secondary pipe boot(s) for visual inspection and possible replacement of the existing bands, securing the secondary boot(s) to the pipe(s) or other repair of the secondary pipe boots if needed. Provided no observed issues with the secondary pipe boots are identified, new primary pipe boots will be fabricated and installed. All work for repair / replacement of the pipe boots will require a specialty subcontractor (e.g., RTD).

If the above pipe boot repair work is performed, consideration will be given to eliminating the 6-inch diameter dry hydrant pipe that currently penetrates the liner system. The dry hydrant pipe was originally installed for pumping into tank trucks. The dry hydrant pipe is not used and its penetration through the liner system adds one more potential leak location.

- 11) Allow the leachate pond to fill. Pump the leak detection system each day, measuring the items listed in Section 1.



July 27, 2021

Ms. Kathy Tarbuck
MEDEP
Bureau of Hazardous Materials and Solid Waste
17 State House Station
Augusta, ME 04333

Subject: Dolby Leachate Pond

Dear Ms. Tarbuck:

The purpose of this correspondence is to discuss the recent dye testing performed for the Dolby Landfill Leachate Pond and provide conclusions/actions relative to mitigating the cause for occasional increased water levels in the leak detection system associated with the Dolby leachate pond. The leachate pond includes a primary geomembrane liner, a geocomposite leak detection layer, a secondary geomembrane, a geosynthetic clay liner (GCL), 12 inches of compacted clay, and a geocomposite underdrain. Figure 1 (attached) shows a cross-section of the leachate pond liner and drainage system. Sevee & Maher Engineers, Inc.'s (SME's) work on the leachate pond was authorized by the State of Maine Department of Department of Administrative and Financial Services (DAFS).

In April 2021, increasing water levels in the leachate pond's leak detection system were detected. At about that same time, it was noted that the leachate pond's underdrain pump was not functioning (a temporary replacement pump was installed soon thereafter). At that same time, it was noted that when the water level in the underdrain layer increased, the water level in the leak detection layer also increased. The cause for the water level increase in the leak detection layer is unknown; however, the apparent relationship between the leak detection layer and the underdrain layer suggests the underdrain and leak detection layer could be connected hydraulically.

Specific conductivity measurements were made from April 15 to July 21, 2021, using water from the leachate pond, the leak detection layer, and the underdrain layer. The specific conductivity measurements are shown in Table 1 (attached). The measurements generally show the highest specific conductivity to be associated with the leachate, and the lowest specific conductivity to be associated with the underdrain. The specific conductivity of the water in the leak detection layer was not sufficiently biased to suggest presence of a leak from either the leachate pond or a leak from the leachate pond's underdrain.

In a continued effort to understand if seepage from the leak detection layer could be entering/leaving the underdrain and/or leachate pond, green-colored dye was introduced into the leak detection layer on June 20, 2021, with the intent that the dye would visibly migrate into the underdrain layer and/or into the leachate pond (if a leak were present in either geomembrane liner). Subsequent to introducing the dye, the water level in the leachate pond was raised and the water level in underdrain was

raised/lowered to encourage the dye to move through any would-be leak(s) into the pond and/or underdrain.

The dye used in the leak detection layer was a fluorescent water-tracing dye manufactured by Eco Clean. One gallon of the dye was introduced into the leak detection system. One gallon of dye colors 5,000 to 10,000 gallons of water. The water in the leak detection layer was pumped down as best possible prior to introducing the dye to assure a concentration likely to be seen if leakage from the leak detection layer occurred.

Water in the underdrain (i.e., in the underdrain's access manhole) and in the leachate pond was visually monitored for dye presence between June 20, 2021 and July 20, 2021, and no dye was detected at either location. The dye monitoring also included checking water samples from the underdrain and leachate pond for fluorescence under black light conditions, in the event very dilute dye concentrations were present at either location. The black light monitoring also showed no fluorescence presence in the underdrain or leachate pond. To confirm the dye presence in the leak detection layer, the leak detection pump was activated on July 16, 2021, and the water pumped from the leak detection layer was indeed fluorescent-green colored. Table 2 and Figure 2 (attached) showing water elevations measured in the pond, leak detection layer, and underdrain layer were prepared to show how water levels in the leak detection layer behaved, as the water levels in the underdrain layer were purposely varied. As indicated earlier, no dye was detected in the underdrain layer or in the leachate pond in spite of purposely raising/lowering the water in the underdrain.

CONCLUSION

There is no clear reason for why water levels in the leak detection layer change when pumping of the underdrain is suspended. No dye was detected in the underdrain and no dye was detected in the leachate pond, though several efforts were made to encourage the dye to seep to either of those potential receptors. However, it does appear that a very small leak into the leak detection layer from the underdrain is likely in that the leak detection layer has been pumped on several previous occasions when the underdrain pump has failed and water levels in the underdrain have increased. Based on the no dye observed in the leachate pond, it is concluded the primary liner for the leachate pond is not leaking in any measurable amount.

Mitigation Action

To avoid future water level increases in the underdrain, DAFS intends to instrument the underdrain pump such that if the pump fails, remote monitoring measures will be in place to notify the landfill operator the underdrain needs attention. In the short term, the remote monitoring will occur at the pump station for the leachate pond and will likely consist of a visible (i.e., light) or audible (i.e., horn) alarm. SME and/or its subcontractors visit the leachate pond pump station on a 1- to 3-day frequency, depending on time of year and weather, and will react to any alarm for the underdrain pump. DAFS is also investigating the possibility connecting all water level and flow monitoring devices associated with the leachate pond to the internet so that more frequent remote monitoring can be implemented.



Thank you for discussing the contents of this letter in advance of its preparation. If you have any questions or comments, please contact me at SME or Lou Pizzuti at DAFS.

Very truly yours,

SEVEE & MAHER ENGINEERS, INC.

A handwritten signature in blue ink, appearing to read "Matthew W. Muzzy". The signature is fluid and cursive, with a long, sweeping tail that extends to the right.

Matthew W. Muzzy, P.E.
Principal/Senior Geo-Environmental Engineer

Attachments

cc: Lou Pizzuti (DAFS)

TABLE 1

SPECIFIC CONDUCTIVITY MEASUREMENTS
DOLBY LEACHATE POND

Date	Leachate Pond	Leak Detection Layer	Underdrain Layer	Notes
4/15/2021	830	800	590	
4/16/2021	840	1000	658	
4/17/2021	767	1050	322	
4/18/2021	886	980	642	
4/19/2021	885	912	660	
4/21/2021	925	883	651	
4/23/2021	887	961	669	
4/24/2021	911	935	663	
4/28/2021	948	936	667	
5/22/2021	1276	825	372	
5/23/2021	1302	780	318	
5/24/2021	1291	824	327	
5/26/2021	1298	790	307	
5/28/2021	1400	821	312	
6/7/2021	1476	638	740	
6/9/2021	1437	651	762	
6/11/2021	1560	787	773	
6/14/2021	1512	718	794	
6/16/2021	1582	768	865	
6/7/2021	1476	638	740	
6/9/2021	1437	651	762	
6/11/2021	1560	787	773	
6/14/2021	1512	718	794	
6/16/2021	1582	768	865	
6/20/2021				Dye Introduced to Leak Detection; Pumping of Leak Detection Stopped
6/21/2021				No dye detected in Underdrain or Pond
6/22/2021	1750		822	No dye detected in Underdrain or Pond
6/23/2021	1728		875	No dye detected in Underdrain or Pond
6/25/2021	1727		747	No dye detected in Underdrain or Pond
6/26/2021	1677		715	No dye detected in Underdrain or Pond
6/27/2021	1726		684	No dye detected in Underdrain or Pond
6/28/2021	1685		665	No dye detected in Underdrain or Pond
6/29/2021	1587		648	No dye detected in Underdrain or Pond
6/30/2021	1614		649	No dye detected in Underdrain or Pond
7/1/2021	1592		602	No dye detected in Underdrain or Pond
7/2/2021	1633		663	No dye detected in Underdrain or Pond
7/3/2021	1817		654	No dye detected in Underdrain or Pond
7/4/2021	1826		658	No dye detected in Underdrain or Pond
7/5/2021	1758		641	No dye detected in Underdrain or Pond
7/6/2021	1718		630	No dye detected in Underdrain or Pond
7/7/2021	1694		647	No dye detected in Underdrain or Pond
7/8/2021	1762		651	No dye detected in Underdrain or Pond
7/9/2021	1725		630	No dye detected in Underdrain or Pond
7/11/2021	1571		990	No dye detected in Underdrain or Pond
7/12/2021	1550		930	No dye detected in Underdrain or Pond
7/13/2021	1584		867	No dye detected in Underdrain or Pond
7/14/2021	1660		938	No dye detected in Underdrain or Pond

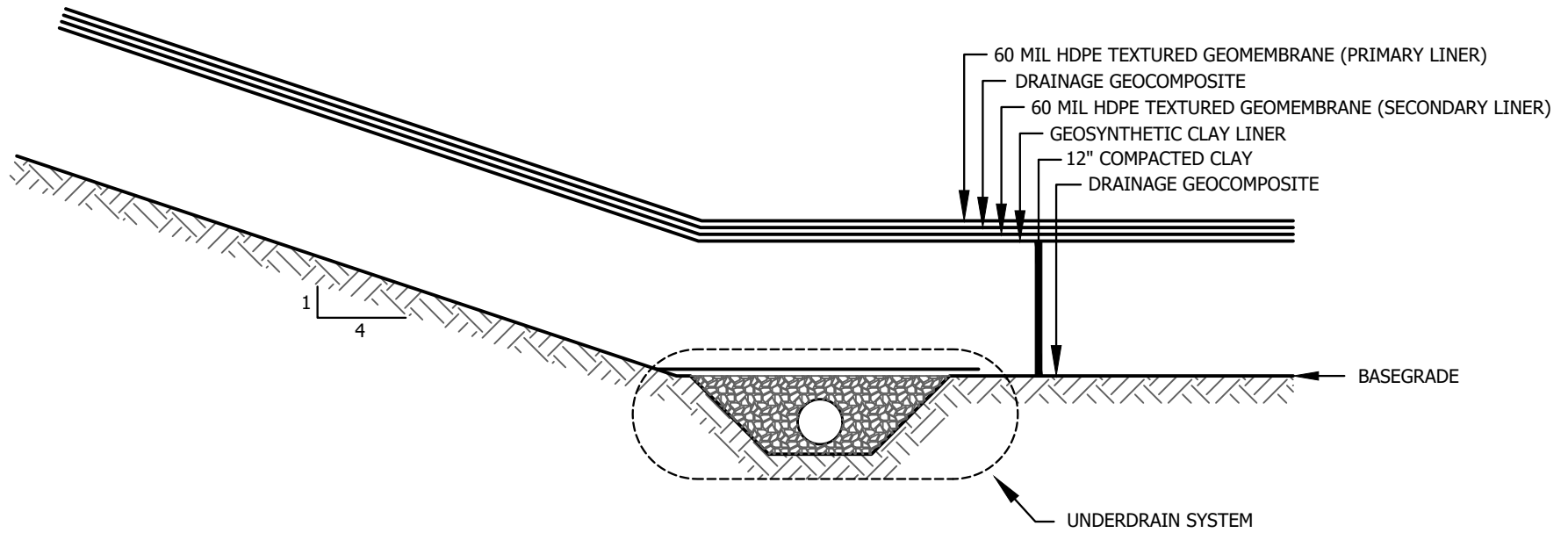
Date	Leachate Pond	Leak Detection Layer	Underdrain Layer	Notes
				Begin varied water level in underdrain
7/15/2021	1689		742	No dye detected in Underdrain or Pond
7/16/2021	1663		840	No dye detected in Underdrain or Pond
7/18/2021	1552		704	No dye detected in Underdrain or Pond
7/19/2021	1624		823	No dye detected in Underdrain or Pond
				Return underdrain to normal operation
				Begin lowering pond for cleaning
7/20/2021	1587		791	No dye detected in Underdrain or Pond
7/21/2021	1559		775	No dye detected in Underdrain or Pond
7/22/2021				No dye detected in Underdrain or Pond
				Pond lowered for cleaning
<p><u>Note:</u> Specific conductivity meter replaced with new meter on 5/22/2021.</p>				

TABLE 2

WATER ELEVATIONS MEASURED DURING DYE STUDY

Day	Date	Time (hrs-min)	Water Elevation in Leachate Pond (ft)	Water Elevation in Leak Detection Layer (ft)	Water Elevation in Underdrain Manhole (ft)
0	6/25/2021	0700	347.5	344.0	343.7
		1400	347.6	344.0	343.8
		1900	347.6	344.0	343.9
1	6/26/2021	0700	347.7	344.1	344.0
		1200	347.7	344.1	344.1
		1730	347.8	344.1	344.1
2	6/27/2021	0700	347.8	344.2	344.3
		1330	347.9	344.2	344.3
		1900	347.9	344.3	344.4
3	6/28/2021	0730	347.9	344.4	344.4
		1500	347.9	344.5	344.5
4	6/29/2021	0730	347.9	344.6	344.5
		1900	347.9	344.7	344.6
5	6/30/2021	0730	347.9	344.9	344.6
		1830	347.9	345.0	344.8
6	7/1/2021	0700	347.9	345.1	344.8
		1900	348.0	345.1	344.8
7	7/2/2021	0700	348.0	345.2	344.9
		1800	348.0	345.2	345.0
8	7/3/2021	0750	348.0	345.3	345.0
		1900	348.0	345.3	345.0
9	7/4/2021	0830	348.0	345.3	345.0
		1900	348.0	345.3	345.0
10	7/5/2021	0730	348.0	345.4	345.0
		1930	348.0	345.4	345.0
11	7/6/2021	730	348.0	345.4	345.1
		1930	348.0	345.5	345.2
12	7/7/2021	730	348.0	345.5	345.2
		1930	348.0	345.5	345.2
13	7/8/2021	730	348.0	345.5	345.2
14	7/9/2021	600	348.2	345.2	345.3
		1900	348.2	345.3	344.2
15	7/10/2021	730	348.4	345.1	344.8
16	7/11/2021	930	348.5	345.0	344.8
17	7/12/2021	730	348.7	345.0	344.8
		1900	348.5	344.9	344.6
18	7/13/2021	0700	348.8	345.0	344.7
		1830	348.8	345.0	344.6
19	7/14/2021	0700	348.8	345.1	344.9
		1900	348.8	344.7	342.9
20	7/15/2021	0700	348.8	344.5	341.9
		1700	348.8	344.4	343.0
21	7/16/2021	0800	348.8	344.4	343.0
22	7/17/2021	0800	348.8	344.3	343.8
23	7/18/2021	0800	348.8	344.4	344.2
		1830	348.8	344.5	344.4
24	7/19/2021	0800	348.8	344.4	343.8

\\SERVER\cfs\kpc\Do\ACAD\Leachate Pond\2021 LP FIGURES.dwg, 7/26/2021 9:30:34 AM, jrl



LEACHATE POND COMPOSITE LINER (BASE & SIDESLOPE)
NTS

FIGURE 1
LEACHATE POND LINER SYSTEM
DOLBY LANDFILL FACILITY



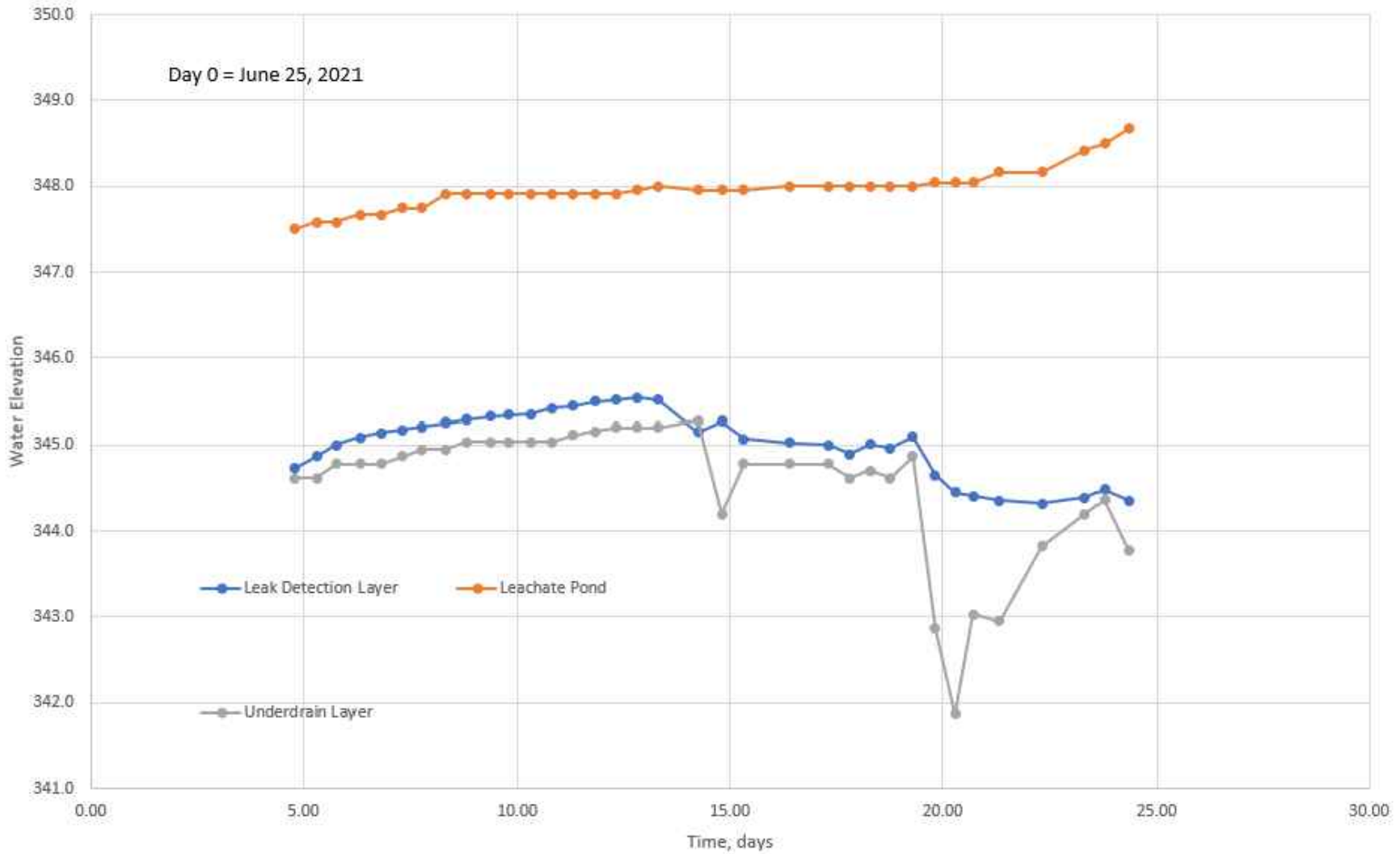



FIGURE 2
WATER LEVEL ELEVATIONS
FOR DYE STUDY
DOLBY LANDFILL FACILITY



MEMO TO: Lou Pizzutti, State of Maine (**VIA EMAIL**)

CC: Brian Pierce, Sevee & Maher Engineers

FROM: Matt Muzzy, Sevee & Maher Engineer: 

DATE: August 23, 2021

SUBJECT: **JULY 2021 LEACHATE POND CLEANING
DOLBY LANDFILL, EAST MILLINOCKET, MAINE**

INTRODUCTION

The Dolby Landfill leachate pond was cleaned, and several repairs were performed during the period of July 26, 2021 to July 29, 2021. Sevee & Maher Engineers, Inc. (SME) planned and observed the cleaning. ACV Enviro (ACV) of Skowhegan, Maine was contracted to perform the leachate pond dewatering, and cleaning. RTD Enterprises, Inc. (RTD) of Madison, Maine was contracted to inspect and repair the liner and pipe boot penetrations at the inlet and both outlets of the leachate pond. This memorandum describes the procedures, observations, and recommendations associated with the cleaning and repair effort. Photographs taken during the leachate pond and repair process are attached.

LEACHATE POND CLEANING AND INSPECTION

On July 26, 2021, leachate was removed from the pond by using the leachate pump station and portable pumps. Leachate inflow into the pond was bypassed during the pond cleaning by closing the pond inlet valve, placing an inflatable pipe plug in the inlet pipe, and pumping leachate from catch basin No. 3 directly to the pump station's wet well. Bypass pumping was monitored continuously during cleaning and a high-level alarm system was in place to alert monitoring personnel of potential of overflows. No pumping failure or problems occurred during the bypass pumping operations.

The leachate pond's 60-mil, textured HDPE geomembrane liner was cleaned beginning Tuesday July 27, 2021 and completing on Thursday July 29, 2019. The surface of the pond liner was cleaned by vacuuming accumulated sediments from the bottom and sideslopes of the pond. Remaining sediments were cleaned by water jetting followed by additional vacuuming. After cleaning of the liner surface was complete, all water was vacuumed from the cleaned area to allow for visual inspection and repair of the liner and pipe boots.

On Thursday July 29, 2021, Matt Muzzy (SME), and RTD conducted a visual inspection of the geomembrane liner and associated pipe boots. The inspection showed several minor scratches on the geomembrane surface that were repaired by RTD. In addition, RTD replaced the pipe boot seals by removing the existing caulking and stainless-steel bands, cleaning the liner and pipe with a wire brush, replacing the wire bands, and applying new caulking over the bands and termination joint formed by the pipe boot(s) and pipe(s).

The sediment and liquid mixture from the pond cleaning was transported to the temporary disposal cell on the Dolby III Landfill. After the cleaning and inspection was completed, bypass pumping was ceased, the inlet valve to the pond was reopened, the inflatable pipe plug was removed, and leachate flows (from the landfills) were directed into the leachate pond.

CONCLUSIONS AND RECOMMENDATIONS

ACV commented several times that the consistency of the sediment in the leachate pond appears to have changed in recent years and is now siltier rather than sandy. ACV indicated additional effort is necessary to remove the siltier sediment. The extra effort may be due to capillary forces holding the siltier particles together as compared to sandier sized particles, which are not so susceptible to formation of tensile forces common to silt sized particles. SME observed that overall, the amounts of sediment in the North portion of the pond and around the pond inlet appeared to be less in terms of thickness and volume as compared to that observed for previous cleanings.

If you have any questions or comments relating to the 2021 leachate pond cleaning, please feel free to contact me.

Attachments:

Photographs of 2021 Leachate Pond and Pipeline Cleaning

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Sediment accumulation at leachate pond inlet pipe



Sediment accumulation at North end of leachate pond



Removing sediment from North end of leachate pond



Working from North end towards inlet area

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Working from North end down west side



Sediment accumulation at Southwest corner



Cleaning inlet area



Finishing pond cleaning at Southwest corner

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Condition of inlet prior to repair



Condition of inlet prior to repair



Removing existing caulking



Cleaned inlet pipe and pipe boot

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



New steel bands and caulking



Condition of outlet prior to repair



Condition of outlet prior to repair



Existing caulking removed from outlet

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



New caulking and steel band on outlet



Condition of pumping outlet prior to repair



Condition of pumping outlet prior to repair



Finishing Pond cleaning at Southwest corner of leachate pond

JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE



Caulking and steel band removed



Liner cut and peeled back to install new seal



Welding liner



New steel bands and caulking

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Sediment accumulation at leachate pond inlet pipe



Sediment accumulation at North end of leachate pond



Removing sediment from North end of leachate pond



Working from North end towards inlet area

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Working from North end down west side



Sediment accumulation at Southwest corner



Cleaning inlet area



Finishing pond cleaning at Southwest corner

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Condition of inlet prior to repair



Condition of inlet prior to repair



Removing existing caulking



Cleaned inlet pipe and pipe boot

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



New steel bands and caulking



Condition of outlet prior to repair



Condition of outlet prior to repair



Existing caulking removed from outlet

**JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



New caulking and steel band on outlet



Condition of pumping outlet prior to repair



Condition of pumping outlet prior to repair



Finishing Pond cleaning at Southwest corner of leachate pond

JULY 2021 LEACHATE POND CLEANING AND REPAIR PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE



Caulking and steel band removed



Liner cut and peeled back to install new seal



Welding liner



New steel bands and caulking

APPENDIX D

ACTION LEAKAGE RATE DISCUSSION

Matt Muzzy

From: Matt Muzzy
Sent: Tuesday, February 8, 2022 11:25 AM
To: Maheu, Vera A
Cc: William.Longfellow@maine.gov; Brian Pierce
Subject: Dolby leachate pond
Attachments: Field Parameters.pdf; Inorganics.pdf; Metals.pdf

Hello Vera,

The purpose of this email is to discuss the leachate pond at the Dolby Landfill and the Action Leakage Rate (ALR) for the leachate pond liner system.

On January 20, 2022 the flow meter for the Dolby leachate pond's leak detection system was repaired to a functioning condition. Evaluation of leak detection flow measurements indicates the Action Leakage Rate (ALR) for the leachate pond has been exceeded. The ALR for the pond is 20 gallons per acre per day (gpad) and the pond area is approximately 2 acres making the total acceptable daily leakage into the leak detection system approximately 40 gallons. As indicated below, leakage into the leak detection layer is apparently occurring at more than 40 gallons per day.

During 2021 the flow meter for measuring flow from the underdrain failed. The flow meter was replaced on January 21, 2022 and since then it has been possible to record the volume of water removed from the leak detection layer each time the leak detection pump is operated. Between the period of January 21, 2022 and January 30, 2022 approximately 12,000 gallons of liquid per day were pumped from the leak detection layer, which exceeds the ALR for the pond and suggests a significant leak in the pond's liner system remains. Given the repair and maintenance work performed on the leachate pond's primary liner and pipe penetrations during Summer 2021, it appears that the liquid coming into the leak detection layer is most likely water from the underdrain coming into the leak detection layer.

In the fall of 2021, the pump for the leachate pond underdrain failed. Replacement pump(s) have been ordered (for several months) and delivery of those pumps to Dolby is reportedly being affected by "supply chain" issues. When the replacement pump(s) arrive, the pump change out is expected to be easy. Since the pump failed no pumping of water from the underdrain has occurred. As described during MEDEP's visit to Dolby on November 2, 2021 the water level in the leachate pond is being operated at a level greater than in the underdrain in order to maintain a net downward stress on the liner system to void potential uplift forces.

Once the underdrain pump is working, the water level in the underdrain will be lowered and maintained at the lowered level. When the underdrain pumping returns it is expected the leakage into the leak detection system will be substantially reduced. If the leakage into the leak detection layer is indeed reduced it will then be reasonable to conclude that the leak into the leak detection layer was originating from the underdrain rather than from the pond. Sampling of the leak detection system and the underdrain have been added to the quarterly water quality monitoring for the site in effort to better understand what the source of liquid leaking into the leak detection system could be. The spring and fall 2021 water quality results for the leachate pond, leak detections system, and underdrain are attached. Based on a cursory review of those results it is not readily apparent which of the two potential sources is the most likely.

Please contact me with questions / comments

Thank you,

Matt M

(LP)		Specific Conductance	pH	Temperature	Dissolved Oxygen	Turbidity (field)														
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	mg/L	NTU													
LP																				
6/24/2021	XX	LTXXXXKA	1625	7.7	21.3	1.8	5.6													
10/5/2021	XX	LTXXXXAN	1110	7.6	22.4	9.1	17													
LDS																				
6/24/2021	XX	LTXXXXKC	922	6.8	23	0.7	0.5													
9/23/2021	XX	LTXXXXK9	916	6.6	19.4	1.4	0.3													
UDLP																				
6/24/2021	XX	LFXXXXKJ	788	7.1	16.5	1.5	0.5													
9/23/2021	XX	LFXXXXK9	538	6.6	17.9	1.6	0.6													

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

REPORT PREPARED: 2/3/2022 14:18 FOR: Dolby Landfill			SUMMARY REPORT Inorganics LP,LDS,UDLP 2021									Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021				
(LP)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
LP																
6/24/2021	XX	LTXXXX47A	8.5	0.084	0.1 U	1200	4.8	1 U	822	1000	1000	40	90			
10/5/2021	XX	LTXXXX48J	5.6	0.52	0.1 U	710	7.2	55	523	580	580	23	21			
LDS																
6/24/2021	XX	LTXXXX47C	1.5	0.5 U	0.34	580	4 U	110	382	420	420	85	54			
9/23/2021	XX	LTXXXX48T	0.48	0.05 U	0.1 U	570	11	16	508	520	520	7.2	34			
UDLP																
6/24/2021	XX	LFXXXX47J	0.19	0.098		540	4 U	24	452	420	420	6.9	30			
9/23/2021	XX	LFXXXX48P	0.16	0.096		310	4 U	13	282	310	310	4.2	13			

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:
U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 2/3/2022 14:17 FOR: Dolby Landfill			SUMMARY REPORT Metals, LP,LDS,UDLP 2021								Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021					
(LP)			Arsenic mg/L	Calcium mg/L	Copper mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L						
Date	Type	Sample ID														
LP																
6/24/2021	XX	LT000047A	0.008 U	112		2.15	132	0.761	149	55.7						
10/5/2021	XX	LT000048J	0.008 U	113	0.025 U	4.18	58.5	2.03	63.6	23.9						
LDS																
6/24/2021	XX	LT000047C	0.016	102		6.16	31.1	3.55	66.2	42.2						
9/23/2021	XX	LT000048F	0.008	132		4.48	43.4	2.25	16.8	32.2						
UDLP																
6/24/2021	XX	LF000047J	0.008 U	121		1.1	36.7	1.7	13.1	30.2						
9/23/2021	XX	LF000048F	0.008 U	81.1		1.66	19.4	1.46	6.99	21.8						

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:
U - Not Detected above the laboratory reporting limit.

APPENDIX E

LEACHATE PIPELINE CLEANING

MEMO TO: Lou Pizzuti, State of Maine (**VIA EMAIL**)

CC: Brian Pierce, Sevee & Maher Engineers

FROM: Matt Muzzy, Sevee & Maher Engineers

DATE: September 15, 2021

SUBJECT: **AUGUST 2021 LEACHATE PIPELINE CLEANING
DOLBY LANDFILL, EAST MILLINOCKET, MAINE**

INTRODUCTION

A portion the pipeline that connects the Dolby Landfill leachate pond to the East Millinocket Wastewater Treatment Plant (EMWWTP) in East Millinocket, Maine was cleaned during the period of August 2, 2021 to August 5, 2021. Sevee & Maher Engineers, Inc. (SME) planned and observed the cleaning. ACV Enviro (ACV) of Skowhegan, Maine was contracted to perform the pipeline dewatering, disassembly, cleaning, and reassembly. This memorandum describes the procedures, observations, and recommendations associated with the cleaning effort. Figure 1 shows the leachate pond, pipeline, and manhole locations from the Dolby Landfill to the former GNP Mill property. Photographs taken during the pipeline cleaning process are attached.

LEACHATE PIPELINE CLEANING

Leachate pipeline cleaning was performed from August 2, 2021 to August 5, 2021. The leachate pond had been drained and cleaned the previous week; thereby, allowing the pipeline to be temporarily taken out of service. Prior to the pipeline cleaning, power to the pump station pumps was shut off and the electrical power panels were locked out by both Dick Angotti of Mid-South Engineering Company and ACV Enviro using standard lock-out/tag-out safety protocols. ACV then dewatered the leachate pipeline at Manholes (MH-) 2, 8, and 14. During pipeline dewatering, leachate was pumped from the manholes and trucked to the EMWWTP.

Following the pipeline dewatering, the pipe connections were disassembled in manholes between MH-2 and MH-15 (unless otherwise noted on Table 1). MH-7 was not opened, however the equipment used by ACV was capable of cleaning entire sections of pipeline from MH-6 to MH-8. MH-10 to MH-12 was not included in the 2021 cleaning plan. The piping disassembly generally consisted of removing two Victaulic Style 995 couplings and a section of HDPE pipe spool to allow access for the cleaning equipment.

The pipeline cleaning process utilized a high-pressure nozzle attached to a two-inch diameter hose, which was inserted into the pipeline. Water was discharged backwards through the nozzle to advance the hose and remove scale accumulated on the pipe wall. The hose was then pulled back with a hydraulic motor while continuing to flush and remove scale during the backward pass. Water, sediment, and debris from the cleaning process drained to the lower of the manholes associated with the section of

pipe being cleaned. Water, sediment, and removed scale was then vacuumed from the manhole into a tank truck and hauled to the leachate dumping pad located at the former GNP mill property in East Millinocket.

After the pipeline was cleaned, the pipe fittings were cleaned, lubricated, and reassembled. The existing gaskets on the Victaulic couplings were reused. One new nut and one bolt was used from the inventory of spare parts at the office trailer.

In addition to cleaning the leachate pipeline, the pump station wet well was cleaned by removing sediment and pressure washing the interior.

Clean water for the leachate pipeline cleaning was obtained from a hydrant at the EMWWTP.

On September 2, 2021, ACV returned to reassemble the pipeline section in MH-2. The spool section had been taken off-site to E.J. Prescott in Gardiner, Maine for modifications which will allow for better reconnection and faster dewatering (in the future). After MH-2 was reassembled, the force main section of the pipeline was pressurized with leachate and a leak inspection was conducted by Dick Angotti and ACV. No leaks were observed at that time.

CONCLUSIONS AND RECOMMENDATIONS

Table 1 provides a summary of the lengths of pipeline cleaned, pipeline condition prior to cleaning, and observations made during the pipeline cleaning process.

The leachate pipeline force main from MH-2 to MH-9 was noticeably dirtier than the gravity line portion of the pipeline. As noted in SME's August 18th leachate pond cleaning memo, the sediment was observed to have a finer and siltier texture than in previous years. This same condition was also observed in all pipeline segments during the pipeline cleaning except for the segments between MH-2 and MH-4 which contained a coarser sandy sediment.

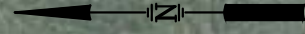
If you have any questions or comments relating to the 2021 pipeline cleaning, please feel free to contact me.

Attachments:

Figure 1 – Site Plan of Leachate Pond, Pipeline, and Manholes
Table 1 –August 2021 Leachate Pipeline Cleaning Summary
Photographs of 2021 Pipeline Cleaning

NOTES

1. BASE MAP FROM GOOGLE EARTH PHOTO DATED 4/28/2016.
2. EXISTING PROPERTY BOUNDARY FROM PLAN ENTITLED "BOUNDARY SURVEY OF A PORTION OF THE KATAHDIN PAPER COMPANY LLC PROPERTY, EAST MILLINOCKET, MAINE, VOLUME 8702, PAGE 146 FOR KATAHDIN FOREST MANAGEMENT" PREPARED BY PLIGSA & DAY LAND SURVEYORS, DATED MAY 31, 2011.
3. MANHOLE PIPE LOCATIONS FROM SQUAW BAY CORPORATION DRAWING DATED 4/25/95. LOCATIONS ARE APPROXIMATE.



TOWN OF EAST MILLINOCKET
 WASTEWATER TREATMENT PLANT
 MH#30
 LEACHATE UNLOADING PAD
 FORMER
 GNP MILL



FIGURE 1
DOLBY LANDFILL FACILITY LAYOUT
 DOLBY LANDFILL
 EAST MILLINOCKET, MAINE



I:\nserv\cfs\kpa\dol\ACAD\SITEOVERVIEW.dwg, 7/28/2020 7:42:19 AM, jrl

TABLE 1
LEACHATE PIPELINE CLEANING SUMMARY
DOLBY LANDFILL
EAST MILLINOCKET, MAINE

	Pipe Station Component	Air Release Valve (Y/N)	Pipeline Station	Pipe Segment Diameter (in)	Distance Between Manholes (ft)	Distance Cleaned in 2021 (ft)	Cleaning Water Condition Observed During Cleaning ^a	Notes ^c
Force Main Section	Pump Station Wet Well	N	0+81			-		
				8	14	0	N/A	
	MH No. 1	N	0+95					Not Opened
				8	146	146	N/A	Flushed 3 times
	MH No. 2	N	2+41					MH Opened
				8	590	590	Fairly Dirty	Flushed 1 time
	MH No. 3	Y	8+31					MH Opened
				8	915	915	Fairly Dirty	
	MH No. 4	Y	17+46					MH Opened
				8	1750	1750	Fairly Dirty	
	MH No. 5	N	34+96					MH Opened
				8	398	398	Fairly Clean	
	MH No. 6	N	38+94					MH Opened
			8	206	206	Fairly Clean		
MH No. 7	N	41+00					Not Opened	
			8	1050	1050	Dirty		
MH No. 8	N	51+50					MH Opened	
			8	1190	1190	Fairly Clean		
MH No. 9	N	63+40					MH Opened	
							-	
	Transition Station	NA	63+75					Not Cleaned
Gravity Main Section	MH No. 10	N	64+05					Not Opened
				10	1430	0	N/A	
	MH No. 11	N	78+35					Not Opened
				10	695	0	N/A	
	MH No. 12	N	85+30					Not Opened
				10	620	620	Fairly Clean	
	MH No. 13	Y	91+50					MH Opened
				10	1650	1650	Dirty	
	MH No. 14	N	108+00					MH Opened
				10	1200	1200	Dirty	
	MH No. 15	N	120+00					MH Opened
				10	767	767	Fairly clean	
	MH No. 16	Y	127+67					Not Opened
				10	833	0	N/A	
	MH No. 17	N	136+00					Not Opened
				10	1060	0	N/A	
	MH No. 18	Y	146+60					Not Opened
				10	1216	0	N/A	
	MH No. 19	Y	158+76					Not Opened
				10	809	0	N/A	
	MH No. 20	Y	166+85					Not Opened
				10	515	0	N/A	
	MH No. 21	Y	169+40					Not Opened
				10	690	0	N/A	
	MH No. 22	N	176+30					Not Opened
				10	174	0	N/A	
	MH No. 23	N	178+04					Not Opened
				10	539	0	N/A	
	MH No. 24	N	183+43					Not Opened
				10	278	0	N/A	
MH No. 25	N	186+21					Not Opened	
			10	233	0	N/A		
MH No. 26	N	188+54					Not Opened	
			10	60	0	N/A		
MH No. 27 ^b	N	189+14					Not Opened	
			8	12	0	N/A		
MH No. 28	N	189+26					Not Opened	
			18	120	0	N/A		
MH No. 29	N	190+46					Not Opened	
			18	482	0	N/A		
MH No. 30	N	195+28					Not Opened	
			18	112	0	N/A		
WWTP	N	196+40						
			total		19,754	10,482		

Notes:
a. Cleaning water condition observed during cleaning was rated Clean, Fairly Clean, Dirty, Fairly Dirty, or Very Dirty.
b. Flow Meter Building
c. All pipe segments flushed twice unless otherwise noted.

**AUGUST 2021 PIPELINE CLEANING PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Opening manhole 2



Cleaning at manhole 2



Cleaning at manhole 3



Clean line at manhole 3

**AUGUST 2021 PIPELINE CLEANING PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Cleaning at manhole 5



Emptying at emergency disposal pad



Cleaning at manhole 6



Cleaning at manhole 13

**AUGUST 2021 PIPELINE CLEANING PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Cleaning at manhole 14



Cleaning at manhole 15

**AUGUST 2021 PIPELINE CLEANING PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



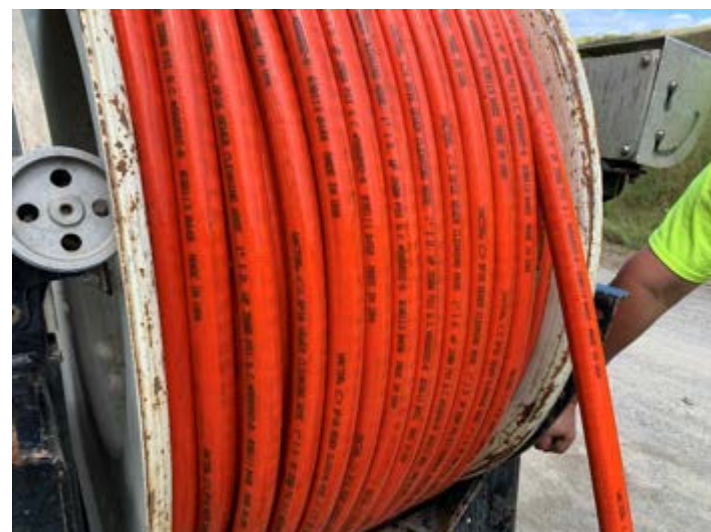
Opening manhole 2



Cleaning at manhole 2



Cleaning at manhole 3



Clean line at manhole 3

**AUGUST 2021 PIPELINE CLEANING PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Cleaning at manhole 5



Emptying at emergency disposal pad



Cleaning at manhole 6



Cleaning at manhole 13

**AUGUST 2021 PIPELINE CLEANING PHOTOGRAPHS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE**



Cleaning at manhole 14



Cleaning at manhole 15

APPENDIX F

PUMPS AND FLOW METERS

From: [Matt Muzzy](#)
To: [Tim Stevens](#); [Richard Angotti](#)
Cc: William.Longfellow@maine.gov; [Brian Pierce](#)
Subject: Dolby leachate pump.
Date: Tuesday, January 18, 2022 10:49:00 AM

Monday (1/17) Tim Stevens called in to discuss the pump situation for Dolby.

Tim reported that the large (leachate) pump has been rebuilt and is ready to be put back into service.

Tim reported that the two small pumps for the underdrain system remain on back up and discussion with the pump supplier did not provide any better understanding of the delivery schedule.

Owing to spring not being too far off, Tim suggested that the large pump be installed and operated to make sure all will be well for the spring thaw.

My response was to ask Tim to speak with Dick Angotti to arrange an installation date and to go over other any details/services that Dick would want Stevens Electric (SE) to provide as part of the pump install.

Dick and Tim decided that Thursday (1/20) would be a good time for SE to install the leachate pump and make several other adjustments relative to the leak detection flow meter and sonic leachate level sensor (in the pump station wet well).

Dick has indicated when (at least) one of the underdrain pumps show up, he (Dick) can install it without SE's help.

Comment on the underdrain pump. Currently the leachate pond level is being held above the water level in the underdrain to avoid uplift of the leachate pond's liner system. Maintaining that water level difference could become difficult as spring approaches and the water level in the leachate pond is typically lowered. Ordinarily the underdrain would be pumped down so that the weight of the liner system itself would be adequate to keep the liner from being lifted. So as spring approaches and if no underdrain pump is available it will be necessary to place a temporary pump in the underdrain manhole and pump leachate into the leachate pond (across the road).

As spring approaches, it will also be necessary to keep the leak detection layer pumped down such that water level in the leak detection layer stays well below the water level in the leachate pond. My understanding is that with the new flow meter for the leak detection layer lowering of the water level in the leak detection system can be returned to automatic.

Tim / Dick ... good luck Thursday. Please call me if any there are any changes to your plan.

Thanks

Matt M

Matthew W. Muzzy, P.E.

Sevee & Maher Engineers, Inc.

4 Blanchard Road, PO Box 85A

Cumberland Center, ME 04021

Tel: 207-829-5016

Fax: 207-829-5692

Cell: 207-400-6550

www.smemaine.com

Stevens Electric & Pump Service, Inc.

P.O. Box 238
Monmouth, ME. 04259

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	28399

Date	Due Date
5/21/2021	6/20/2021
P.O. No.	Terms
#18143.07	Net 30
W.O. No.	Job Date
	5/6/2021

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Subs

Project

Qua...	Material	Unit	Description of Work	Amount
			Reference our Proposal #5430 - 04/08/21	
	As Per Proposal-...	1,373.00	(1) Barnes SEV521AU sub sewage pump -- 2"fpt discharge x 2" solids handling "Vortex" impeller -- 1/2hp / 230volt / 1phase / 1800rpm sub motor -- an "automatic" pump, with integral float switch	1,373.00
	UPS Freight Char...	218.00	Freight Charge - shipping in & shipping out	218.00
	Proposal Notes		-- Notes -- -- Ship Date: 05/06/21 -- Via: BSP Transportation - Freight Bill # 050-452813 -- Ship To: Dick Angotti (207) 217-0385 -- Address: 222 Katahdin Ave , Millinocket, Me 04462	

1.5% service charge on balances past 30 days

Total \$1,591.00

Thank you for your business.

Invoice

Stevens Electric & Pump Service, Inc.

P.O. Box 238
 Monmouth, ME. 04259

*18143
 Sub*

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	28435

Date	Due Date
5/21/2021	6/20/2021
P.O. No.	Terms
	Net 30
W.O. No.	Job Date
2998	5/21/2021

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Project
Dolby Landfill

Qua...	Material	Unit	Description of Work	Amount
6.5	Service crew	150.00	<p>Two men & service truck BS/TC went to the job site to get information about upgrades and repairs. Planned to do a confined space entry.</p> <p>The following is what was acquired from the meeting.</p> <p>Replace or repair the 2" magnetic flow meter/ (would need to install a PVC spool piece if the unit were to be sent out for repair.) see pictures</p> <p>PVC stick for transducer Hydromanager 200 1" seal off Run 4-20 ma signal from Hydromanager to the Foxboro chart recorder pen #3/run the second ma output to the PLC cabinet Run 3 signal wires from chart recorder to the PLC cabinet for level from the Hydromanager and from each of the existing pressure transducers</p> <p>30' - 3/4" EMT 2 - 3/4" MA EMT 12 - 1 hole clips 2 - 3/4 LB</p> <p>***The PLC would need to be programmed to accept these 3</p>	975.00

Total

--

Stevens Electric & Pump Service, Inc.

P.O. Box 238
 Monmouth, ME. 04259

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	28435

Date	Due Date
5/21/2021	6/20/2021

P.O. No.	Terms
	Net 30

W.O. No.	Job Date
2998	5/21/2021

Bill To

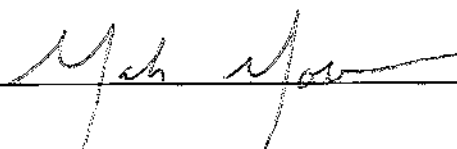
Dolby Landfill
 C/O Sevee and Maher Engineers, Inc.
 Attn: Matt Muzzy
 PO Box 85A
 Cumberland Ctr, ME 04021

Project
 Dolby Landfill

Qua...	Material	Unit	Description of Work	Amount
			<p>additional analog inputs *** by others ***They are talking about adding the PLC to an Internet connections*** by others</p> <p>They would like for us to pull pump #1 later this summer (when the pond is drained and being worked on) to overhaul the pump. It is starting to meg low to ground.</p> <p>Prices for the work will be sent soon.</p>	

1.5% service charge on balances past 30 days

Total	\$975.00
--------------	-----------------



Stevens Electric & Pump Service, Inc.

P.O. Box 238
Monmouth, ME. 04259

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	29087
Date	Due Date	
9/30/2021	10/30/2021	
P.O. No.	Terms	
	Net 30	
W.O. No.	Job Date	
3816	9/30/2021	

Project
Dolby Landfill

Qua...	Material	Unit	Description of Work	Amount
1	As Per Proposal-...	17,540.00	<p>We completed work as proposed #5478</p> <p>9/29/21 -BS/BG/TC Installed the Hydorranger 200 ultra sonic head in the pump tank. Installed the Hydorranger 200 controller in the control building, brought 120 V into the controller and programmed the controller to give a 4-20 ma signal to the existing chart recorder. 0' on the Hydorranger is set at the bottom of the inlet pipe coming from the retention pond.</p> <p>9/30/21 -BS/BG Installed the 2" Siemens 500 mag flow tube in the metering pit. Installed the Siemens 500 receiver in the control building. Ran the 4-20 ma and the pulse totalizer into the PLC panel. The 4-20 ma signal from the Siemens unit is set for 0-88 GPM but the PLC scaling is set for 0-30 GPM and will need to be changed to match the flow tube. The pulse for the totalizer appears to be working properly.</p>	17,540.00

1.5% service charge on balances past 30 days

Total \$17,540.00

Timothy Steen

Invoice

Stevens Electric & Pump Service, Inc.

P.O. Box 238
 Monmouth, ME. 04259

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	30061

Date	Due Date
1/21/2022	2/20/2022
P.O. No.	Terms
	Net 30

W.O. No.	Job Date
4625	1/21/2022

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Project
Dolby Landfill

Qua...	Material	Unit	Description of Work	Amount
1	Service crew	165.00	Two men & service truck BS/PV returned to the site and completed the tasks remaining on proposal #5478.	165.00
1	Float Switch - Sig...	55.65	We also replaced a float switch while on site with an SJE Signal Master 30' float switch. This was not part of the proposed work. This was charged at T & M. Float Switch - Signal Master 30' Normally Open Contacts Changed the Qmax from 88.1 down to 20.0 This changes what the 20 ma setting is. (think it should be set at 37.5 +/- to match the scaling in the PLC)	55.65

1.5% service charge on balances past 30 days

Total	\$220.65
--------------	-----------------

Timothy Stevens

Invoice

Stevens Electric & Pump Service, Inc.

P.O. Box 238
Monmouth, ME. 04259

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	30060
Date	Due Date	
1/20/2022	2/19/2022	
P.O. No.	Terms	
	Net 30	
W.O. No.	Job Date	
4622	1/20/2022	

Project
Large Flygt Pump

Qua...	Material	Unit	Description of Work	Amount
1	As Per Proposal-...	23,963.00	We furnished the materials and performed the labor necessary for the completion of proposed work #5554. Installed pump and tested. Drawing 29.6 amps.	23,963.00

1.5% service charge on balances past 30 days

Total	\$23,963.00
--------------	--------------------

Timothy Steun

Invoice

Stevens Electric & Pump Service, Inc.

P.O. Box 238
Monmouth, ME. 04259

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	30061

Date	Due Date
1/21/2022	2/20/2022
P.O. No.	Terms
	Net 30

W.O. No.	Job Date
4625	1/21/2022

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Project
Dolby Landfill

Qua...	Material	Unit	Description of Work	Amount
1	Service crew	165.00	Two men & service truck BS/PV returned to the site and completed the tasks remaining on proposal #5478.	165.00
1	Float Switch - Sig...	55.65	We also replaced a float switch while on site with an SJE Signal Master 30' float switch. This was not part of the proposed work. This was charged at T & M. Float Switch - Signal Master 30' Normally Open Contacts Changed the Qmax from 88.1 down to 20.0 This changes what the 20 ma setting is. (think it should be set at 37.5 +/- to match the scaling in the PLC)	55.65

1.5% service charge on balances past 30 days

Total	\$220.65
--------------	-----------------

Timothy Stevens

Invoice

Stevens Electric & Pump Service, Inc.

P.O. Box 238
Monmouth, ME. 04259

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	30060
Date	Due Date	
1/20/2022	2/19/2022	
P.O. No.	Terms	
	Net 30	
W.O. No.	Job Date	
4622	1/20/2022	

Project
Large Flygt Pump

Qua...	Material	Unit	Description of Work	Amount
1	As Per Proposal-...	23,963.00	We furnished the materials and performed the labor necessary for the completion of proposed work #5554. Installed pump and tested. Drawing 29.6 amps.	23,963.00

1.5% service charge on balances past 30 days

Total	\$23,963.00
--------------	--------------------

Timothy Steun

Invoice

Stevens Electric & Pump Service, Inc.

P.O. Box 238
 Monmouth, ME. 04259

Phone #	Fax #	Invoice #
207-933-9638	207-933-9639	30393

Date	Due Date
3/16/2022	4/15/2022
P.O. No.	Terms
21602	Net 30
W.O. No.	Job Date
634238	3/9/2022

Bill To
Dolby Landfill C/O Sevee and Maher Engineers, Inc. Attn: Matt Muzzy PO Box 85A Cumberland Ctr, ME 04021

Project
underdrain pump system

Qty	Material	Unit	Description of Work	Amount
			Re: Underdrain pump system, Leachate Pond	
1	As Per Proposal-...	1,367.00	We have supplied a new Goulds submersible sewage pump, as the Barnes brand pump has an unknown delivery date.	1,367.00
	As Per Proposal-...		-- consisting of: (1) Goulds WS0512B submersible sewage pump (1) SJE PumpMasterPlus mech'l float switch, with 20ft cord -- and we spliced the switch cord into the pump cord, about 4-5feet from the plug end of the pump cord	
	Proposal Notes		-- Notes -- -- Reference our Proposal # 5607 -- Shipped to: Dick Angotti, -- 222 Katahdin Ave, Millinocket, 04462 -- Shipped with Packing Slip #634238, on 03/09/22 -- Shipped via: BSP Transportation -- We will keep the Barnes pumps on order at this time.	

1.5% service charge on balances past 30 days

Total	\$1,367.00
--------------	-------------------

Thank you for your business.

Invoice

Matt Muzzy

From: Matt Muzzy
Sent: Tuesday, January 18, 2022 10:50 AM
To: Tim Stevens; Richard Angotti
Cc: William.Longfellow@maine.gov; Brian Pierce
Subject: Dolby leachate pump.

Monday (1/17) Tim Stevens called in to discuss the pump situation for Dolby.

Tim reported that the large (leachate) pump has been rebuilt and is ready to be put back into service.

Tim reported that the two small pumps for the underdrain system remain on back up and discussion with the pump supplier did not provide any better understanding of the delivery schedule.

Owing to spring not being too far off, Tim suggested that the large pump be installed and operated to make sure all will be well for the spring thaw.

My response was to ask Tim to speak with Dick Angotti to arrange an installation date and to go over other any details/services that Dick would want Stevens Electric (SE) to provide as part of the pump install.

Dick and Tim decided that Thursday (1/20) would be a good time for SE to install the leachate pump and make several other adjustments relative to the leak detection flow meter and sonic leachate level sensor (in the pump station wet well).

Dick has indicated when (at least) one of the underdrain pumps show up, he (Dick) can install it without SE's help.

Comment on the underdrain pump. Currently the leachate pond level is being held above the water level in the underdrain to avoid uplift of the leachate pond's liner system. Maintaining that water level difference could become difficult as spring approaches and the water level in the leachate pond is typically lowered. Ordinarily the underdrain would be pumped down so that the weight of the liner system itself would be adequate to keep the liner from being lifted. So as spring approaches and if no underdrain pump is available it will be necessary to place a temporary pump in the underdrain manhole and pump leachate into the leachate pond (across the road).

As spring approaches, it will also be necessary to keep the leak detection layer pumped down such that water level in the leak detection layer stays well below the water level in the leachate pond. My understanding is that with the new flow meter for the leak detection layer lowering of the water level in the leak detection system can be returned to automatic.

Tim / Dick ... good luck Thursday. Please call me if any there are any changes to your plan.

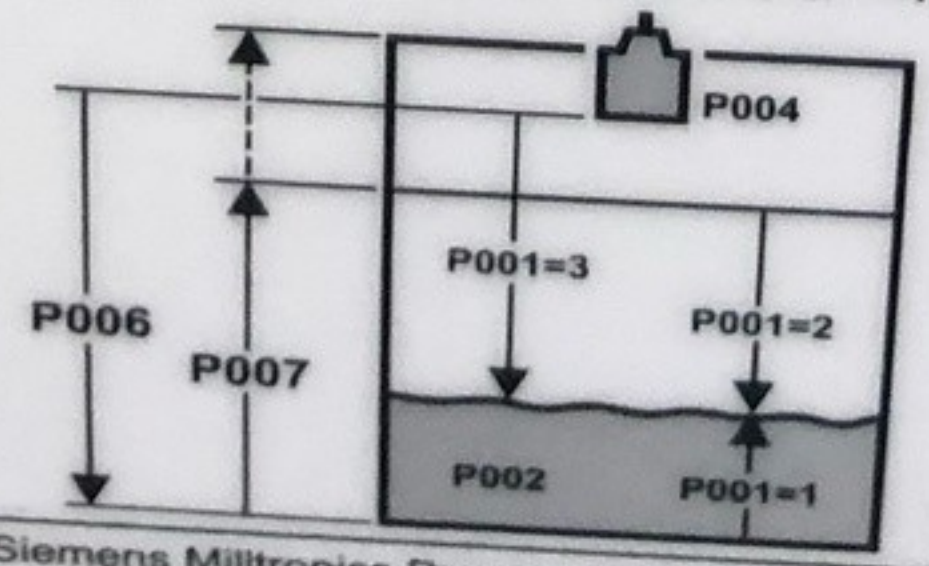
Thanks



P111 Relay Function	
Value	Function
0	Off
1	Level
2	In bounds
3	Out of bounds
4	Rate of change
5	Temperature
6	Loss of Echo (LOE)
7	Cable fault
40	Totalizer
41	Flow sampler
50	Fixed duty assist
51	Fixed duty backup
52	Alt. duty assist
53	Alt. duty backup
54	Service ratio duty assist
55	Service ratio duty backup
56	First In First Out
64	Flush Valve
65	Communication



P005 m(1), cm(2), mm(3), ft(4), in(5)



x

30 days later

INSTRUCTION MANUAL
IM107R12

GOULDS
WATER TECHNOLOGY
a xylem brand

www.xylem.com/goulds

R. Angotti

Pump Model

S/N Date Installed *3/11/22*

HP *1/2* Volts *240* Max. Amps *7.3*

PH/Hz *1* Therm. Protected

Fill in required information and affix to control box or any convenient location

QR Code

WS0512B

K2149456

Important:
Keep this tag for
warranty identification

Wastewater Pump Dewatering, Effluent and

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

INSTRUCTION MANUAL

IM107R12



WS0512B



K2149456

SIEMENS

HYDRORANGER 200

7ML50341AA01

Serial No.: PBD/N8240106

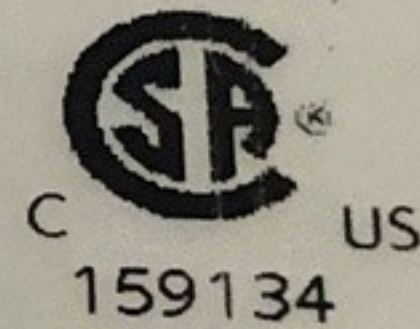
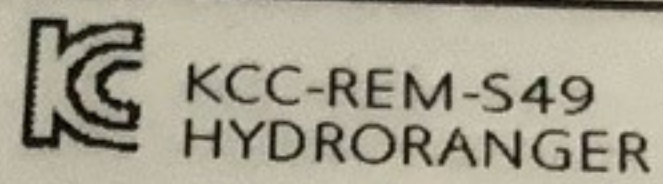
Power Rating: 100 - 230V \sim $\pm 15\%$
50/60 Hz, 36 VA (17 W)

Contact Rating: 5A @ 250V \sim , Non-Inductive

Operating Temperature: -20°C to 50°C

Enclosure: TYPE 4X / NEMA 4X / IP65

See Instruction Manual For Proper Operation
Pour un fonctionnement optimal se reporter
aux instructions de service



PBD/N8240106

Siemens Milltronics Process Instruments, Peterborough
Assembled in Canada with domestic and imported parts

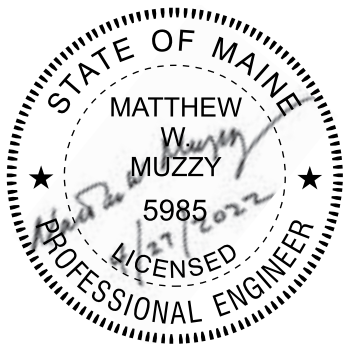
APPENDIX G

POST-CLOSE MONITORING AND MAINTENANCE PLAN

**POST-CLOSURE MONITORING AND
MAINTENANCE PLAN
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE**

Prepared for

MAINE BUREAU OF GENERAL SERVICES
Augusta, Maine



April 2022

4 Blanchard Road
P.O. Box 85A
Cumberland, Maine 04021
Phone: 207.829.5016 smemaine.com

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APPENDIX B	ENGINEERING DRAWINGS FOR DOLBY LANDFILL FACILITY
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**POST-CLOSURE MONITORING AND MAINTENANCE PLAN
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE**

1.0 INTRODUCTION AND PURPOSE

This Post-Closure Monitoring and Maintenance Plan (Plan) was prepared for the Dolby Landfill Facility (Facility) in general accordance with Chapter 401, Section 6 of the Maine Department of Environmental Protection's (MEDEP) Solid Waste Management Rules. This Plan is intended for use by the Maine State Department of Administrative and Financial Services (DAFS) - Bureau of General Services (BGS), BGS' post-closure landfill operator (i.e., the landfill operator), and MEDEP for the post-closure care of the Facility. Given that the Dolby Landfill Facility is closed to waste placement, this Plan also serves as the Facility's Operations Manual.

DAFS owns Dolby Landfill Facility and BGS is responsible for the facility's overall operation. The Facility is located approximately 2-1/2 miles northwest of East Millinocket, Maine on Route 157. The Facility consists of three landfills: Dolby I, Dolby II, and Dolby III. Each landfill contains non-hazardous solid wastes generated from pulp and papermaking activities, woodland operations, biomass burning, and general mill and municipal trash collection. A copy of the MEDEP Board Order approved Solid Waste License - Final Closure (#S-000796-WO-AO-N) for the Facility is provided as Appendix A.

The Dolby II and Dolby III Landfills are contiguous and have a combined area of approximately 130 acres. The Dolby I Landfill has an area of approximately 20 acres and is located approximately 0.25 miles south of Dolby II and III. Figure 1-1 shows the location of the Facility and the landfill areas relative to major local landmarks. In the summer of 2016, Phase 1 of the Dolby III cover upgrade was completed. Phases 2 and 3 of the Dolby III cover upgrades are expected to be completed in 2022 and 2023. After completion of Phase 3, approximately 10.5 acres (i.e., Phase 4) of Dolby III will remain for cover upgrade. The cover upgrade includes placement of a geomembrane over the entire Dolby III Landfill surface.

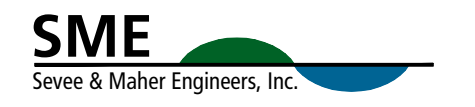
Final closure of the Dolby II Landfill occurred in 1999 by placement of a soil cover over that waste deposit. The Dolby I Landfill was closed more than 30 years ago with a soil cover and is not subject to the requirements of this Plan unless specifically stated.

NOTES

1. BASE MAP FROM GOOGLE EARTH PHOTO DATED 4/28/2016.
2. EXISTING PROPERTY BOUNDARY FROM PLAN ENTITLED "BOUNDARY SURVEY OF A PORTION OF THE KATAHDIN PAPER COMPANY LLC PROPERTY, EAST MILLINOCKET, MAINE, VOLUME 8702, PAVE 146 FOR KATAHDIN FOREST MANAGEMENT" PREPARED BY PLIGSA & DAY LAND SURVEYORS, DATED MAY 31, 2011.
3. MANHOLE PIPE LOCATIONS FROM SQUAW BAY CORPORATION DRAWING DATED 4/25/95. LOCATIONS ARE APPROXIMATE.



FIGURE 1-1
DOLBY LANDFILL FACILITY LAYOUT
DOLBY LANDFILL
EAST MILLINOCKET, MAINE



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The Facility is supported by a lined leachate storage pond, a leachate pump station, and a leachate transport pipeline. Leachate and groundwater discharge from the Dolby II and Dolby III Landfill areas are collected by a system of perforated pipes and connecting manholes located along the perimeter of Dolby II and Dolby III, and by a leachate collection layer beneath a portion of the Dolby III waste deposit. The collected groundwater and leachate flow to the leachate storage pond (henceforth, the leachate pond) and from there the leachate is pumped via the pump station and leachate transport pipeline to the Town of East Millinocket's wastewater treatment facility (approximately 3.25 miles away). Figure 1-1 shows the general location of the leachate transport pipeline and the Town's wastewater treatment plant. Appendix B includes engineering drawings for the leachate management infrastructure.

A network of groundwater monitoring wells and surface water monitoring points are in place at the Facility and are routinely sampled and analyzed for water quality. The water quality monitoring and follow-up reporting is performed in accordance with an existing Environmental Monitoring Plan for the Facility prepared in 2012 (i.e., the 2012 EMP). The 2012 EMP is on file with the MEDEP and BGS. The EMP is expected to be revised when the Dolby III cover upgrade is complete (estimated 2024-2025).

The purpose of this Plan is to provide the landfill owner and the landfill operator with written guidance for the monitoring and maintenance of the Dolby Landfill Facility during its post-closure life. The remainder of this Plan describes responsibilities related to: performance of inspections and maintenance of the Facility; site safety and emergency procedures; leachate management; water quality monitoring; and general management of the Facility. All persons assisting with the post-closure activities for the Dolby Landfill Facility must be familiar with the contents of this Plan and the need to maintain and monitor the Facility's environmental performance during the post-closure period.

A copy of this Plan and other relevant Plans for the Facility are on file with BGS and are available upon request. This Plan will be revised as necessary; all changes must be coordinated through BGS and no change can be implemented until approved by the MEDEP.

2.0 SITE ACCESS AND SECURITY

The Dolby Landfill Facility has two access ways for vehicles. The main access is a combination paved and gravel roadway connecting to Highway Route 157, approximately 0.3 miles away from the southwestern most point of the Dolby III Landfill. A secondary, lesser-used, access road to the Facility exists near the southeastern-most point of the Dolby II Landfill. The secondary access road consists of a 0.4-mile-long gravel roadway that connects to a network of privately owned woodland roadways. Both the main and secondary access roads are gated and locked. The main access road is plowed and sanded during the winter to provide vehicle access to the leachate pond and pump station.

The perimeter of the leachate pond is surrounded by a chain link fence and locking gate. The pump station control building (next to the leachate pond) has a locking steel door and the hatchway to the pump station's wet well is also lockable. The Dolby Landfill Facility includes an office trailer that is also used for storage of leachate pipeline replacement parts. The trailer has two locking access doors. The leachate storage pond, wet well, and office trailer are within the overall limits of the gated/locked landfill Facility.

3.0 SITE SAFETY

All personnel working at the Dolby Landfill Facility will follow applicable state and federal safety and health rules and regulations. Should a medical and/or ambulance emergency occur at the Facility, first aid services are available in the nearby Town of East Millinocket and can be requested by dialing 911.

This Plan does not constitute a Health and Safety Plan for activities performed at the Dolby Landfill Facility. All persons performing maintenance and/or monitoring at the Facility will be responsible for having and maintaining their own health and safety plans and shall comply with all applicable state and federal safety and health rules and regulations.

3.1 Safety Equipment

Routine safety equipment at the site includes such items as first aid kits and fire extinguishers. Specialty equipment includes explosive gas meters, hydrogen sulfide (H₂S) meters, and lockout – tagout equipment. All vehicles associated with construction work being performed at the Facility will be equipped with a first aid kit and fire extinguisher; in addition, a first aid kit is available at the landfill office trailer. Specialty breathing apparatus and air monitoring equipment will be used for entry into any confined space associated with the leachate management system. Confined space entry procedures and use of the associated specialty equipment will be limited to OSHA trained personnel only.

On occasion, odors can be emitted from gas vents installed in the landfill cover system and/or from the landfill surface. When such odors are detected, personnel/equipment should be moved away from the odor and the landfill operator should be notified. The landfill operator will arrange for measurement of hydrogen sulfide, explosive gas, and other potentially odorous compounds in the air so that appropriate safety action can be taken.

Cell phones and/or two-way radios may be used by all personnel working at the Facility for timely communication of emergencies.

3.2 Fire Prevention

In the closed condition, the landfill surfaces are mostly open grassland. Because locked gates control vehicular traffic to the Facility and because public access is limited, risk of an accidental grass fire is low. Common practice is to keep vehicles off the landfill surface except for mowing and cover repair. Should a fire occur, firefighting services are available from the Town of East Millinocket by dialing 911.

3.3 Emergency Notifications

Any emergency condition occurring at the Dolby Landfill Facility will be reported on a same-day basis to the landfill operator. The landfill operator will in turn notify BGS and MEDEP within 48-hours.

4.0 LANDFILL FACILITY INSPECTIONS

Post-closure inspection of the Dolby Landfill Facility will include semi-annual site visits for general inspections and periodic aerial surveys of the landfills to evaluate changes in cover settlement. The general inspections will consist mainly of visual observations of the Facility and are typically completed in the early summer and late fall. Specific items observed and evaluated as part of each general inspection include:

- Erosion and erosion control systems on and around the landfills;
- Condition of the vegetative cover;
- Condition of the drainage systems, ditches, sedimentation ponds, and other stormwater controls;
- Access roads and gates;
- Leachate storage pond, pump station, and leachate transport system;
- Visible sections of the leachate transport pipeline and manholes; and
- Safety equipment and signage.

Each general inspection will also include completion of an observation report describing the condition of items listed above. A sample observation report is included in Appendix C. Each completed observation report will be forwarded to BGS for review and subsequent submittal to MEDEP.

The periodic aerial surveys include review of recent landfill surface topography to help detect areas of total and differential settlement that could suggest potential areas of future runoff ponding and/or later slope movement.

Each settlement evaluation will include completion of a report describing the changes observed from the aerial survey and any related comments or recommendations pertaining to the landfill's geotechnical performance. The settlement evaluation report will be forwarded to BGS for review and subsequent submittal to MEDEP.

5.0 STORMWATER INSPECTIONS AND MONITORING

Formal stormwater inspections are no longer performed at the Dolby Landfill Facility. In 2019, MEDEP issued a Notice of Termination to BGS in 2017 indicating the then in-place Multi-Sector General Permit for the Dolby Landfill was no longer needed (MEDEP to BGS letter dated September 20, 2019). Informal stormwater inspections are conducted weekly by landfill personnel operating the leachate pond pump station and as part of the general inspections conducted for the Dolby landfill facility each year.

6.0 LEACHATE MANAGEMENT

The Dolby Landfill Facility includes buried piping that collects leachate and groundwater from the perimeter of the Dolby II and Dolby III Landfills, as well as piping that collects leachate and groundwater from a portion of the Dolby III base area. Leachate (including groundwater) collected by the piping system flows to the on-site, lined, leachate storage pond. Leachate is pumped from the leachate pond through a transport pipeline to the Town of East Millinocket's wastewater treatment plant. The leachate pumping is measured on an ongoing basis. The leachate quality is monitored three times per year as described in Section 7.0 of this Plan.

6.1 Leachate Pond, Pump Station, and Transport Pipeline

The leachate pond was constructed in 2007 and includes primary and secondary High-Density Polyethylene (HDPE) liners with a geocomposite leak detection layer between them. A geosynthetic clay liner (GCL) underlies the secondary HDPE liner and is in turn underlain by a 12-inch-thick compacted clay liner. There is an underdrain system for control of potential groundwater uplift pressures below the compacted clay liner. Leachate flows into the leachate pond through a 24-inch HDPE inlet pipe and leachate flows out of the pond (to the pump station wet well) through a 12-inch HDPE outlet pipe. Engineering drawings for the leachate pond and associated infrastructure are provided in Appendix B.

The following tables present the leachate pond's volume as related to various water depths and features of the pond. The maximum capacity of the leachate pond can be achieved by damming the pond's emergency spillway with sandbags.

**TABLE 6-1
LEACHATE POND VOLUME**

Leachate Depth Relative to Pond Bottom (ft)	Leachate Surface Elevation (ft)	Approximate Leachate Volume in Pond (gallons)
1	345.0	198,000
2	346.0	619,000
3	347.0	1,081,000
4	348.0	1,578,000
5	349.0	2,109,000
5.5	349.5	2,389,000
6.5	350.5 (Emergency Spillway Invert)	2,978,000
7.5	351.5 (Top of Pond Liner)	3,616,000

**TABLE 6-2
LEACHATE POND FEATURE AND CORRESPONDING LEACHATE POND VOLUME**

Pond Feature	Leachate Volume (gallons)	Volume Remaining Relative to Emergency Spillway Invert (gallons)
Bottom of 24-inch pond inlet pipe	178,000	2,800,000
24-inch pond inlet pipe flowing half full	576,000	2,403,000
Top of 24-inch pond inlet pipe	1,034,000	1,944,000
Painted line 2 feet below emergency spillway invert	1,838,000	1,140,000
Emergency spillway invert	2,978,000	0

During non-freezing weather, the leachate pond level is maintained as low as practical to maximize the holding capacity of the pond in the event of an extreme precipitation event. It should be noted that the leachate pond was sized to store leachate generated by the Facility when it was actively operating. At that time, runoff from the open waste areas flowed directly to the leachate pond. Leachate generation by the closed Facility is expected to be significantly less than that when the Facility was open.

A two-foot freeboard line, as measured from the invert of the emergency spillway, is painted on the leachate pond's primary liner and the leachate level in the pond should not exceed that line during normal operation. In the event the freeboard line becomes submerged, the landfill operator will contact BGS, who will in turn contact MEDEP. BGS and MEDEP will then decide if leachate trucking to the Town of East Millinocket's wastewater treatment plant is needed to avoid leachate pond overtopping.

During freezing weather, the leachate level in the leachate pond should be maintained approximately 6-inches above the top of the 24-inch diameter inlet pipe to help protect the pond's inlet and outlet pipes from ice damage.

6.2 Leachate Pump Station and Transport Pipeline

A leachate pump station and wet well are positioned adjacent to the leachate pond. Two pumps in the wet well convey leachate through approximately 6,500 linear feet of 8-inch diameter HDPE force main to a transition structure (i.e., high-point structure). From the transition structure, the leachate flows through approximately 13,300 linear feet of 10-inch diameter HDPE gravity main (including an inverted siphon) to the Town of East Millinocket's wastewater treatment plant. The leachate pump station includes a flow meter and mechanical chart recorder (circular paper) to document the volume of leachate pumped and the level of leachate in the wet well. Figure 1-1 shows the location of the leachate pump station and transport pipeline.

The pump station is equipped with two 600 gallons per minute (gpm) submersible pumps that operate in parallel. One pump is activated/deactivated by floats that sense the leachate pond level; the other pump serves as a standby pump that is manually operated when high leachate pond inflows are occurring. The leachate pumps are equipped with running time meters and pump discharge pressure meters. The running time and discharge pressure are also recorded by the pump station's chart recorder and are used to estimate the leachate volume pumped. In the event the measured and calculated leachate flow rates vary by more than 20 percent, the landfill operator will investigate to determine the cause of the volume discrepancy, which, among other things, could be a sign of leakage from the leachate transport pipeline.

A leachate flow meter is also located in the gravity main, approximately 600 feet upstream of East Millinocket's wastewater treatment plant (approximately 3.2 miles from the landfill pump station). This flow meter also uses a circular chart recorder. The circular paper charts at both recorder locations are typically changed by the landfill operator at 3- to 4-day intervals. Data from the completed charts are reduced and tabulated by the landfill operator.

The flow meter near the East Millinocket wastewater treatment plant is contained in a wooden storage shed. The shed is heated during the cold weather and needs to be checked routinely for freezing interior temperatures. The shed has a lower level that requires confined space entry if accessed. A leachate dumping pad is located adjacent to the south and west sides of the shed. The leachate dumping pad is connected by a gravity pipeline to the leachate transport line. The leachate dumping pad is used to empty tank-trucks when leachate hauling from the Dolby Facility is necessary.

6.3 Leachate Pond Leak Detection Monitoring

A leak detection layer exists between the primary and secondary leachate pond liners. A stone-filled collection sump is positioned at the south end of the leak detection layer. All liquid collected in the leak detection layer drains to the sump. A 6-inch pipe connects the sump to the pump station. The 6-inch pipe contains a small submersible pump that is activated by an electronic water level sensor in the sump. Flow from the submersible pump (i.e., flow from the leak detection layer sump) is recorded before being discharged to the wet well. The flow rate from the leak detection pump, flow total, sump water level, and pump running time are stored by a programmable control panel housed in the pump station. The stone thickness in the leak detection sump is 12 inches. The leak detection pump activates when the water level in the sump 10 inches. The pump turns off when the sump water level reaches zero.

The leak detection sump level and pump activity are reviewed and recorded by the landfill operator each time the pump station chart recorder is changed. Should the leak detection pump activate, BGS will be notified. The landfill operator will record flow measurements from the leak detection layer and determine if the Action Leakage Rate (ALR) (i.e., 20 gallons per acre per day [gpad]), for the leachate pond has been exceeded. Small diameter tubing is also connected to the sump to allow sampling and analysis of the leak detection water, if desired.

In the event the leakage into the leak detection layer exceeds the Action Leakage Rate (ALR), BGS will notify MEDEP. As soon as weather conditions allow, the landfill operator will drain the leachate pond and visually inspect the surface of the primary liner and repair any damaged areas.

The ALR represents the rate of leakage into the leak detection layer that will trigger interaction between BGS and the MEDEP to determine the appropriate response action. An Action Leakage Rate/Response Action Plan for the leachate pond is provided in Appendix D to this Plan. In the event an ALR response action occurs, a follow-up report will be prepared for submission to the MEDEP; the report will summarize the results of the response action and will include recommendations relative to future leak detection monitoring.

As of 2021, the ALR for the leachate pond was exceeded. As follow up to the exceedance, the leachate pond primary liner was cleaned and inspected, the pipe penetrations into and out of the leachate pond were inspected, re-caulked, and re-banded. Subsequent leak detection monitoring indicated the ALR continued to be exceeded and MEDEP was alerted to that condition. As of 2012, water collected in the leachate pond underdrain system was (and continues to be) pumped to the leachate pond pump station for subsequent treatment as leachate. In 2021, water quality monitoring of the underdrain system was initiated using the underdrain manhole as the sampling point. Water quality monitoring of the underdrain in 2021 showed presence of several constituents common to leachate. A discussion of the apparent leak in the leachate pond's liner system is provided in the 2021 Annual Landfill Report.

6.4 Leachate Pond Level Increase Above Two-foot Freeboard Line

The following procedures will be taken to control the leachate level in the leachate pond if the two-foot freeboard line is exceeded. It should be noted that these procedures are an adaptation of similar procedures set forth in the 2012 Operating Manual for the Dolby III Landfill on file with BGS (SME, 2012). These procedures take into account that during the post-closure period, it is very unlikely that a weather event will occur to cause the two-foot freeboard line to be exceeded. The leachate pond was originally sized to contain runoff from multiple acres of active waste area, which is not the case during post-closure.

- In preparation for forecasted heavy rain or snowmelt, the landfill operator will clear all debris from the leachate pond's outlet pipe rack/screen and operate the leachate pumps manually until the pond is dropped to a minimum level. Care will be taken to avoid the running the leachate pumps dry and risking possible pump damage.
- The landfill operator will contact a tank-truck operator to mobilize sufficient tank-trucks and pumps to remove excess leachate from the leachate pond and haul it to the Town of East Millinocket's wastewater treatment plant. As of 2017, Thornton Construction of Milford, Maine is on call for leachate hauling. Thornton Construction can be reached via cell at 207.949.1966. Standard practice is to contact Thornton Construction (or similar) annually before the spring thaw and confirm that leachate hauling assistance is available. The Town of East Millinocket's wastewater treatment plant operator is also contacted before the spring runoff to verify the procedures necessary for unloading the leachate tank-trucks. The contact phone number for the wastewater treatment plant is 207.447.1452.
- If potential exceedance of the two-foot freeboard line becomes apparent, the landfill operator will monitor the leachate pond level at least four times per day to determine if leachate hauling is necessary. As part of the monitoring, sandbags can be placed in the emergency spillway to block potential overflows. Damming the emergency spillway should be a last resort to prevent the leachate pond from overtopping and should not be used to avoid leachate hauling.
- As soon as the leachate level reaches the painted freeboard line (located two feet below the invert of the emergency spillway), the landfill operator will contact BGS to request initiation of leachate hauling. The hauling will continue as long as necessary to reach the end of the runoff event and will not be terminated until the leachate level in the pond is at least 6 inches below the invert of the emergency spillway and falling.
- If the leachate pond level increase cannot be controlled by pumping and hauling, measures will be implemented to also pump leachate into the #3 sediment pond. For this action to occur, the

outlet for the #3 sediment pond will first be blocked in order to retain as much leachate as possible in the sediment pond before overtopping occurs. Once the level in the leachate pond is at least 6 inches below the invert of the emergency spillway, and falling, the water in the #3 sediment pond will be pumped back to the leachate pond. BGS and MEDEP will identify any mitigation necessary for the #3 sediment pond once all leachate has been removed from it.

6.5 Leachate Pond Overflow

In the event of a leachate pond overflow and/or when an overflow of the #3 sediment pond occurs (when that pond is being used to temporarily hold leachate), the following measures can be taken to hasten the stoppage of overflow:

- Shut-off the inflow to the leachate pond via the gate valve located between the leachate pond and catch basin CB #3.
This measure will provide some temporary storage of leachate within the landfill's leachate collection piping but will cause a potential risk to slope stability of the Dolby III Landfill's cover system, especially along the Landfill's western toe.
- Increase the number of hauling vehicles and the haul frequency.
The leachate pumping via the transport pipeline and leachate hauling can be performed on an around-the-clock schedule if necessary. Additional tank-trucks for hauling leachate may need to be mobilized. The expanded hauling schedule will be initiated prior to any leachate pond overflow or #3 sediment pond overtopping.
- Visual inspections and specific conductivity monitoring.
All areas overtopped by leachate (i.e., the emergency spillway and #3 sediment pond) will be routinely inspected during and after the overtopping to identify areas of potentially immediate erosion threats and/or structural deficiencies. If an immediate threat is noted, corrective measures will be taken. If leachate is released to the environment, frequent specific conductivity measurements of the outflow will be recorded to assist with evaluation of any potential impact.

6.6 Pump Station Failure

In the event of a pump station failure, leachate can be stored in the leachate pond. If the pump station failure will be for an extended period of time or, if the pond level exceeds the two-foot freeboard line, portable pumps and leachate hauling trucks will be mobilized to maintain the leachate pond level below the two-foot freeboard line.

6.7 Leachate Pond Cleaning and Pump Station Maintenance

Sediment collected in the leachate pond will be periodically removed and the pond liner will be visually inspected. Pending completion of the cover upgrade for the Dolby III Landfill it is expected that sediment accumulation in the leachate pond will become minimal, thereby making the need for frequent cleaning and sediment removal unnecessary. When leachate pond cleaning is necessary, the activities will include wash down of the leachate pond's primary liner and close visual inspection of the primary liner's surface for possible points of leakage. Care will be taken during the leachate pond cleaning to avoid causing any damage to the liner. The leachate pond liner inspection will also include the inlet and outlet pipe penetrations.

The leachate pump station wet well will be cleaned and inspected at the same time as the leachate pond. A report of the leachate pond and wet well cleaning, with photographs and recommendations, will be prepared and submitted to BGS.

Periods of low leachate generation and leachate pond cleaning often provide good opportunities to perform pump station maintenance. At those times, the leachate pumps and their associated equipment will be inspected for wear and necessary parts replaced. As of April 2022, the leachate pumps are Flygt Model CP-3170-MT submersible pumps. The #2 pump was rebuilt in 2013 and the #1 pump was rebuilt in 2022. The #1 pump is located closest to the pump station control house. Each pump has a pumping output of approximately 600 gallons per minute (gpm) and when combined have a capacity of approximately 700 gpm.

CAUTION: Anyone working in the pump station wet well must follow confined space entry procedures.

6.8 Leachate Transport Pipeline Cleaning

The leachate transport pipeline from the leachate pond to the East Millinocket wastewater treatment plant will be cleaned when the combined pumping flow rate in the pipeline drops below 450 gpm. A report of the pipeline cleaning will be prepared and submitted to BGS. Engineering drawings for the leachate transport pipeline are presented in Appendix B.

7.0 ENVIRONMENTAL MONITORING

Environmental Monitoring for the Dolby Landfill Facility during the post-closure period will consist of sampling and analysis of groundwater, surface water, leachate, and landfill gas at a number of existing monitoring points. The environmental monitoring is used to evaluate performance of the Facility relative to potential threats to public health and safety as well as threats to the environment. The Environmental Monitoring Plan (2012 EMP) for the Dolby Landfill Facility was updated in April 2012 and is on file at MEDEP and BGS. The 2012 EMP is not expected to change in the early years of post-closure monitoring for the Facility. The sampling frequency and parameters for the closed landfill Facility are, however, expected to decrease later in the post-closure life. Any changes to the EMP will be approved by MEDEP before implementation.

Condition No. 5 of the MEDEP approved Solid Waste License - Final Closure (#S-000796-WO-AO-N) for the Dolby Landfill Facility (see Appendix A) contains language pursuant to a future specific evaluation of water quality at three existing monitoring well locations at the Dolby III Landfill and the potential for a corrective action for the groundwater, dependent on water quality at those locations. Any change in groundwater quality monitoring as result of that future evaluation or any other reason must be approved by MEDEP and will be documented by amending the 2012 EMP.

7.1 Groundwater, Surface Water, and Leachate Monitoring

Twenty-one groundwater monitoring locations, six surface water locations, three leachate monitoring locations, and the leachate pond underdrain are routinely sampled and analyzed at the Dolby Landfill Facility. The monitoring points are listed by identification code in Table 7-1 and their site locations are shown on Figure 7-1. The 2012 EMP describes the frequency, methods, materials, chemical parameters, analyses, and reporting associated with sampling and analysis of the monitoring points. The underdrain sampling point (i.e., UDLP) was added in 2021 and follows the same monitoring schedule and parameter list as the monitoring wells.

TABLE 7-1

WATER QUALITY MONITORING LOCATIONS

<u>GROUNDWATER MONITORING WELLS</u>		
<u>DOLBY III</u>		
MW-107A	MW-304A	MW-402A
MW-301	MW-304B	MW-402B
MW-302B	MW-401A	
MW-302C	MW-401B	
<u>DOLBY II</u>		
MW-104B	MW-205B	MW-303B
MW-202AR	MW-206A	
MW-202B	MW-206B	
MW-205A	MW-303A	
<u>DOLBY I</u>		
MW-103	MW-113	
<u>SURFACE WATER SAMPLING LOCATIONS</u>		
PBFB	Partridge Brook Flowage – Background	
PBFR	Partridge Brook Flowage – Revised location beginning 2012	
ND	North Ditch	
SPO	Siltation Pond Outlet	
SPON	Siltation Pond North	
SPOS	Siltation Pond South	
UDLP – Underdrain for leachate pond (collected from manhole on the western side of the leachate pond).		
FIELD PARAMETERS from MW – 103 and MW – 113, which are monitoring wells associated with the Dolby I		
<u>LEACHATE SAMPLING LOCATIONS</u>		
LP	Leachate Pond South of Dolby III	
LPD2	Leachate Pond East of Dolby II	
LDS	Leachate Pond Leak Detection Sump	



AERIAL IMAGE FROM GOOGLE EARTH,
DATED APRIL 28, 2016.

LEGEND

- GROUNDWATER WELLS
- SURFACE WATER SITES
- PIEZOMETER

FIGURE 7-1
WATER QUALITY MONITORING LOCATIONS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE



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7.2 Landfill Gas Monitoring

Fourteen locations are routinely monitored for the presence of landfill gas (i.e., hydrogen sulfide and explosive gas) at the Dolby Landfill Facility. The locations consist of ten catch basin locations spaced along the perimeter of the landfill (i.e., #4, #6A, #13, #21, #22, #30, #35, #39, #43, and #45), one former groundwater monitoring well (107B), the office trailer, the leachate pond pump station, and the associated wet well. The gas monitoring locations are shown on Figure 7-2. Several of the gas monitoring locations will be eliminated as a result of the Dolby III cover upgrade. The eliminated locations consist of leachate catch basins that will be permanently removed from access due to the Dolby III Landfill cover upgrade. By end of 2023, it is expected that only groundwater monitoring well (107B), the office trailer, the pump station, wet well, and two catch basins (CB # 39 and CB#43) will remain available for gas monitoring. The 2012 EMP describes the frequency, methods, monitoring equipment, and reporting associated with sampling and analysis of the gas locations.



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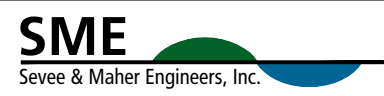
AERIAL IMAGE FROM GOOGLE EARTH,
DATED APRIL 28, 2016.

LEGEND

- GAS SAMPLE LOCATIONS
- EXISTING MANHOLE/CATCH BASIN
- FLOW DIRECTION OF LEACHATE COLLECTION SYSTEM



FIGURE 7-2
GAS MONITORING LOCATIONS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE



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8.0 LANDFILL COVER MONITORING AND MAINTENANCE

The final cover systems for the Dolby II and Dolby III Landfills are visually monitored as part of the semi-annual general inspections (see Section 4.0). Common elements of these inspections are to identify landfill surface areas where: ponding of water on the landfill cover is occurring; cover soil erosion is occurring; stress of the vegetative layer is observed; animal burrows are present; and where any other features are visible that could affect the cover integrity.

The Landfill cover is mowed every other year to prevent growth of deep rooted, woody plant species. Starting in with winter 2020, the surface of both Dolby II and Dolby III have been mowed annually. The annual mowing is an experiment to understand if annual mowing will reduce winter snow accumulation (i.e., drifting) on the landfill, which could reduce spring leachate flows (when leachate trucking is sometimes necessary to supplement the leachate pumping capacity at the leachate pond. At such time that the Dolby III cover upgrade is complete, the biannual mowing schedule may be reinstated.

9.0 RECORD KEEPING AND REPORTING

Records maintained for the Dolby Landfill Facility pertain mainly to the volume of leachate pumped (and hauled) to treatment, leachate pumping flow and pressure statistics, the results of precipitation event monitoring as discussed in the SWPPP, inspection reports, and documentation of physical maintenance and repair of the Facility. Water quality and gas measurement results will be submitted to MEDEP following each monitoring episode as described in the 2012 EMP. An annual report for the Facility will be prepared and submitted to MEDEP that includes the leachate pumping records, inspections, and documentation of maintenance and repair. The water quality results will also be included in the annual report along with an interpretation of those results as related to MEDEP standards and site trends.

10.0 POST-CLOSURE MONITORING AND MAINTENANCE COST ESTIMATE.

The following table of estimated post-closure monitoring and maintenance costs was provided by BGS. The table includes estimated costs during five years of landfill closure activity (i.e., 2017 through 2021) and thirty years of landfill post-closure life (i.e., 2022 through 2052).

**TABLE 10-1
ESTIMATED ANNUAL POST-CLOSURE MONITORING AND MAINTENANCE COSTS**

Years	Water Quality ¹	General Inspections ²	Leachate Control ³	Maintenance ⁴	Engineering Design Support ⁵	Cover Settlement Evaluation ⁶	Annual Average Cost
Years 1-7 Implementation of Closure 2017- 2024	\$69,000	\$64,000	\$93,000	\$25,000	\$85,000	\$5,000	\$343,000
Years 1-15 Post-Closure 2024-2039	47,000	31,000	\$64,000	\$17,000 (yrs 1-4) \$29,000 (yrs 5)	\$12,000	\$2,000	\$181,000
Years 16-30 Post-Closure 2039-2054	47,000	31,000	\$64,000	\$17,000 (yrs 1-4) \$29,000 (yrs 5)	\$12,000	\$2,000	\$171,100

Total Closure and Post-Closure Monitoring and Maintenance Cost (2024 – 2054) \$5,265,000

- Notes:**
- Includes Groundwater Sampling, Reporting, and Annual Groundwater Report Preparation. Assumes that decreased sampling and reporting (# of sample sites and/or # of rounds) is allowed after cover upgrade is completed (i.e., 2024 or after)
 - Assumes “local” Inspections performed three times a week during 7-year closure period then once per week thereafter. All options include three annual site visits by an independent engineering firm.
 - Includes performing inspection and repair/replacement of air release valves, pipeline cleaning, pond cleaning, and pump rebuilding/maintenance every other year during the closure period and every third year during post closure period. This annual cost is expected to become lower as leachate flow from landfill diminishes and the need for pipeline and pump capacity are reduced.
 - Includes snow removal every year, road/culvert maintenance every year, alternate year mowing of Dolby II and III, and trimming trees along the leachate transport pipeline every 5 years.
 - Includes oversight of subcontractors, interaction with owner and regulatory agencies, quality control, project management, and administration.
 - Includes biannual aerial survey of Dolby II and Dolby III for 7 year closure implementation period for evaluation of cover settlement. Includes aerial survey every fifth year for 30 year post-closure to evaluate landfill settlement.
 - All values are in 2022 dollars. Does not include electrical costs for the leachate transport pipeline and leachate treatment at new municipally owned wastewater treatment plant in East Millinocket. All costs are estimated average annual costs.
 - Actual annual costs may vary.

REFERENCES

Sevee & Maher Engineers, Inc., 2012. Environmental Monitoring Plan, Dolby Landfill, April 2012.

Sevee & Maher Engineers, Inc., 2012. Operating Manual, Dolby III Landfill, April 2012.

APPENDIX A

MEDEP LICENSE FOR DOLBY FACILITY



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

BOARD ORDER

IN THE MATTER OF

STATE OF MAINE, ACTING THROUGH THE)	SOLID WASTE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL)	LICENSE
SERVICES, BUREAU OF GENERAL SERVICES)	
EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE)	
DOLBY LANDFILL FACILITY)	
#S-000796-WO-AO-N)	FINAL CLOSURE
(APPROVAL WITH CONDITIONS))	

Pursuant to the provisions of the *Maine Hazardous Waste, Septage and Solid Waste Management Act*, 38 M.R.S. §§1301 to 1319-Y; the *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2 (last amended October 19, 2015); and the *Solid Waste Management Rules: General Provisions*, 06-096 CMR 400 (last revised April 6, 2015); *Landfill Siting, Design and Operation*, 06-096 CMR 401 (last revised April 12, 2015); and *Water Quality Monitoring, Leachate Monitoring, and Waste Characterization*, 06-096 CMR 405 (last revised April 12, 2015), the Department of Environmental Protection (“Department”) has considered the application of the STATE OF MAINE, acting through the Department of Administrative and Financial Services, Bureau of General Services, with its supportive data, agency review comments, staff summary, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. APPLICATION SUMMARY

- A. Application: The Department of Administrative and Financial Services, Bureau of General Services (“DAFS/BGS”) has applied for a license to close an existing paper mill landfill facility in East Millinocket.
- B. History:
 - (1) On June 13, 1984, the Great Northern Paper Company (“GNP”) received Department approval to construct and operate the Dolby III landfill (Department license #L-000796-07-A-N).
 - (2) The Dolby III landfill occupies approximately 72 acres and has been operated in stages consisting of 17 waste cells. Operations are currently in Cell 16.

STATE OF MAINE, ACTING THROUGH THE	2	SOLID WASTE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL)		LICENSE
SERVICES, BUREAU OF GENERAL SERVICES)		
EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE)		
DOLBY LANDFILL FACILITY)		
#S-000796-WO-AO-N)		FINAL CLOSURE
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- (3) The originally-approved waste streams were wastewater sludges, woodroom/woodyard waste, wood ash, and general rubbish from GNP's Millinocket and East Millinocket paper mills and municipal solid waste from the local communities. The disposal of municipal solid waste was discontinued in 1993 in response to new federal solid waste regulations. The site also includes the Dolby I and Dolby II landfills, which have been filled to licensed capacity and are closed. Dolby I, II and III are hereinafter collectively referred to as the Dolby Landfill Facility.
- (4) On April 28, 2003, the Department approved the transfer from GNP of all solid waste licenses, and other Department licenses, associated with the Dolby Landfill Facility to Katahdin Paper Company LLC ("KPC").
- (5) On August 30, 2011, the Maine State Planning Office ("SPO") acquired the Dolby Landfill Facility and related properties from KPC. On September 28, 2011, the Department approved the transfer of all solid waste licenses (Department license #S-000796-WR-AJ-T), and other Departmental licenses, associated with the Dolby Landfill Facility to the SPO from KPC.
- (6) Since the issuance of the aforementioned transfer license, the SPO has been dissolved and responsibilities for the oversight and operation of the Dolby Landfill Facility have been turned over to the DAFS/BGS.

C. Summary of Proposal: The DAFS/BGS is proposing to close the remaining open portions of Dolby III and upgrade the cover system of previously closed areas of Dolby II and Dolby III in several phases over the next few years. The entire project is hereinafter referred to as the Dolby Landfill Cover Upgrade Project. An Application for Landfill Closure entitled Dolby Landfill Cover Upgrade - Phase I (hereinafter "Application" or "Dolby Landfill Cover Upgrade Project - Phase I") was prepared by Sevee & Maher Engineers, Inc. and is dated April 2016. The Department accepted the Application as complete for processing on April 27, 2016.

2. TITLE, RIGHT, OR INTEREST

The Dolby Landfill Facility site is approximately 436 acres in size. The DAFS/BGS has submitted an executed copy of the Acquisition Agreement, dated August 30, 2011, that conveyed the property that the Dolby Landfill Facility is located on from KPC to the SPO. The SPO was dissolved in 2011 and ownership of the Dolby Landfill Facility was

STATE OF MAINE, ACTING THROUGH THE	3	SOLID WASTE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL))	LICENSE
SERVICES, BUREAU OF GENERAL SERVICES))	
EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE))	
DOLBY LANDFILL FACILITY))	
#S-000796-WO-AO-N))	FINAL CLOSURE
(APPROVAL WITH CONDITIONS))	

transferred to the DAFS/BGS by PL 2011, c. 655; thereby, establishing the DAFS/BGS as the owner/operator of the facility.

The Department finds that the DAFS/BGS has submitted sufficient evidence of title, right, or interest with respect to the property proposed for use.

3. NOTICE OF INTENT

The DAFS/BGS has provided documentation of the publication of a "Notice of Intent to File" and has documented notification of abutters as required by 06-096 CMR 2. The Notice of Intent to File was published in the March 19-20, 2016 edition of the Bangor Daily News.

The Department finds that the DAFS/BGS has complied with all of the public notice requirements of 06-096 CMR 2.

4. FINANCIAL ABILITY AND ASSURANCE

The DAFS/BGS has allocated approximately \$12 million for the proposed closure/cover system upgrade at the Dolby Landfill Facility. The funds for the Dolby Landfill Cover Upgrade Project were included in the 2016-2017 State of Maine biennial budget (PL 2015, c. 267 Part M). The Dolby Landfill is a state-owned facility and is not subject to the financial assurance requirements of 06-096 CMR 400(11) of Maine's *Solid Waste Management Rules* ("Department Rules").

The Department finds that the DAFS/BGS has provided adequate evidence of financial ability and assurance for the proposed Dolby Landfill Cover Upgrade Project.

5. TECHNICAL ABILITY

The DAFS/BGS has retained Sevee & Maher Engineers, Inc. ("SME") of Cumberland, Maine to assist with the design, construction management and oversight of the Dolby Landfill Cover Upgrade Project. SME was formed in 1985 to provide civil and environmental services to private and public sectors. Services provided by SME include siting, design, permitting, and operation of solid waste landfills. Personnel from SME have been involved with various aspects of the design and operation of the Dolby Landfill Facility since the mid 1980's. SME provided information regarding the technical ability of its personnel who will be utilized to design, manage, and oversee the construction of the Dolby Landfill Cover Upgrade Project. The DAFS/BGS and SME will also work with earthworks and geosynthetics contractors experienced in landfill cover construction to complete the project. Post-closure care and maintenance of the

STATE OF MAINE, ACTING THROUGH THE	4	SOLID WASTE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL)		LICENSE
SERVICES, BUREAU OF GENERAL SERVICES)		
EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE)		
DOLBY LANDFILL FACILITY)		
#S-000796-WO-AO-N)		FINAL CLOSURE
(APPROVAL WITH CONDITIONS))		

facility will continue to be provided by the DAFS/BGS using personnel familiar with the site.

The Department finds that the DAFS/BGS has demonstrated technical ability for the proposed Dolby Landfill Cover Upgrade Project.

6. LIABILITY INSURANCE

The DAFS/BGS is a public entity and is exempt from the liability insurance requirements of 06-096 CMR 400(10).

The Department finds that the DAFS/BGS is exempt from the liability insurance requirements of 06-096 CMR 400(10) of the Department Rules.

7. SURFACE WATER QUALITY AND FLOODING

Stormwater from the Dolby Landfill site is managed in accordance with the facility's Stormwater Pollution Plan and is in compliance with the Maine Multi-Sector General Permit Sector L. In general, surface water from the site flows towards the Partridge Brook Flowage, which then flows into Dolby Pond. Partridge Brook Flowage is not listed as an impaired water body. Stormwater management for the facility includes 3 separate sediment/detention ponds that are positioned near the downslope perimeter of the Dolby III landfill. Runoff from the closed landfill areas and access roads enter grass and stone lined ditches that flow into the sediment/detention ponds. Discharges from each sediment/detention pond flow into level spreaders and then become sheet flow into the adjacent wooded areas.

Since the Dolby III landfill ceased operations prior to reaching its permitted final waste grade, the proposed final grading plan will have sideslopes that are flatter in some areas than previously expected. The proposed cover upgrades will also utilize existing cover material to re-establish a vegetative cover surface that will mimic the current cover conditions in terms of stormwater runoff from the site. SME proposes no changes to the site's current Stormwater Management Plan with respect to the proposed cover system upgrade. However, during each phase of the cover system upgrade, a stormwater analysis will be performed to verify the capacity requirements of the site's existing structures and to design the necessary temporary and permanent erosion control measures required for the proposed cover upgrades. Based upon the stormwater analysis for the Phase 1 cover upgrade area, the emergency spillway of Sedimentation Pond #3 will be modified. Modifications include the installation of a riprap-lined emergency spillway and outlet pipe riprap protection.

STATE OF MAINE, ACTING THROUGH THE	5	SOLID WASTE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL))	LICENSE
SERVICES, BUREAU OF GENERAL SERVICES))	
EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE))	
DOLBY LANDFILL FACILITY))	
#S-000796-WO-AO-N))	FINAL CLOSURE
(APPROVAL WITH CONDITIONS))	

The Department finds that the proposed Dolby Landfill Cover Upgrade Project will not have an unreasonable adverse effect on surface water quality and will not unreasonably cause or increase flooding on-site or on adjacent properties nor create an unreasonable flood hazard to any structure.

8. EROSION AND SEDIMENTATION CONTROL

The proposed Dolby Landfill Cover Upgrade Project will occur within the limits of the existing landfill footprint and will minimize the disturbance of any native soils. The design and implementation of all erosion control measures associated with the proposed project will be conducted in accordance with the Maine Erosion and Sediment Control Practices Field Guide for Contractors, March 2015, or its equivalent. Suitable erosion control measures will be in-place prior to disturbance of the existing soil cover associated with the proposed project. A comprehensive Erosion and Sedimentation Control Plan has been prepared by SME and was submitted as part of the Application.

The Department finds that the DAFS/BGS has adequately addressed erosion and sediment control for the proposed Dolby Landfill Cover Upgrade Project and has demonstrated that the proposed project will not cause unreasonable sedimentation or erosion of soil.

9. FACILITY BACKGROUND AND PROJECT DESCRIPTION

The Dolby II and Dolby III landfills are non-secure landfills that collect leachate and groundwater-containing leachate. The Dolby II and Dolby III landfills have a combined size of approximately 135 acres and were permitted by the Department in 1978 and 1984, respectively. Originally, the waste streams included municipal solid wastes from the Towns of Millinocket, East Millinocket and Medway, and wastewater treatment sludge and various pulp and papermaking residuals from the GNP mills. Over the years, the Department has approved disposal of a number of different wastes streams, including, but not limited to, the following: wood waste; boiler ash; wood ash; coal ash; demolition debris ash; asbestos-containing materials; oil-contaminated soils; lime grit; waste sulfur; ink sludge; and solid waste from Baxter State Park and GNP Woodland Operations.

Cover materials have been previously placed on all of Dolby II and a majority of Dolby III. In an effort to significantly reduce the volume of leachate generated at the Dolby Landfill Facility, the DAFS/BGS plans to close the remainder of Dolby III and upgrade the cover system of previously closed areas of Dolby III and portions of previously closed areas of Dolby II. The proposed cover system upgrades will significantly limit precipitation infiltration into the waste; thereby, reducing leachate generated at the site. The objective of reducing the leachate generated at the site is to minimize future costs

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associated with the transportation and treatment of leachate from the facility that will be paid for by the taxpayers of Maine.

10. SITE ASSESSMENT REPORT

Consistent with Department Rules, the DAFS/BGS is exempt from conducting an additional site investigation for closure as long as the site was previously characterized and water quality monitoring is conducted in accordance with the requirements of 06-096 CMR 405. Previous site investigations including a study conducted by E.C. Jordan in 1981 have documented the hydrogeologic conditions at the Dolby Landfill Facility. In December 2015, SME conducted an investigation to better define the bedrock surface and groundwater divide in the vicinity of Dolby II. This investigation was performed to establish the proposed cover upgrade work limits on Dolby II that would provide the greatest long-term benefit in terms of reducing leachate generation and subsequent collection, conveyance and treatment costs. Results of the December 2015 investigation were submitted, along with interpretive bedrock and phreatic surface maps for this portion of the landfill site, as part of the Application.

A facility water quality monitoring program consisting of groundwater, surface water and leachate sampling and testing has been conducted triannually with the data submitted in the annual reports.

The Department finds that the DAFS/BGS has completed a site investigation for closure and site assessment report that adequately supports the design of the proposed final cover system and that the DAFS/BGS conducts water quality monitoring in accordance with Department Rules.

11. ENGINEERING DESIGN AND REPORT

- A. Closure Design: The DAFS/BGS has submitted a proposed cover system design, prepared by SME and dated March 29, 2016. The proposed Dolby Landfill Cover Upgrade Project is to occur in phases of approximately 25 acres in size over a 4 to 5 year period. The first phase, Phase I, will include a majority of the remaining open areas of Dolby III (i.e., Cells 15 and 16) and other areas in the southwest portion of Dolby III. Other phases will follow sequentially as detailed on Figure 1-2, Conceptual Closure Sequence, submitted in the Application. The Application details the approximate amount of acreage to be covered in each construction season and is as follows: for Dolby III, Summer 2016 – 25 acres, Summer 2017 – 24 acres and Summer 2018 – 23 acres; and for Dolby II, Summer 2019 – 25 acres.

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Approximately 38 acres of the existing Dolby II cover system will not be upgraded. The cover system upgrade design will incorporate existing topsoil, cover soil, and sand drainage material previously placed at the site to the extent possible. A soil re-use plan has been submitted to describe how existing soils will be re-used within Phase I of the proposed Dolby Landfill Cover Upgrade Project. The proposed cover system upgrade includes, from the bottom up, the following components: a minimum 6-inch gas collection system (i.e., sand and gas vent piping); a 40-mil high density polyethylene (“HDPE”) textured geomembrane; a drainage geocomposite and cover system drainage pipes; a 14-inch cover soil layer; a 4-inch vegetative soil layer; and miscellaneous permanent erosion control measures (i.e., erosion control mats, rip rap, etc.).

- B. Stability and Settlement Assessment and Monitoring: Slope stability of the proposed cover system was evaluated relative to the materials and material interfaces which will comprise the proposed cover system. Slope stability factors of safety (“FOS”) were calculated using soil and geosynthetic material properties considered representative of the materials available to the project and which are consistent with geotechnical literature and accepted engineering practices. Soil and geosynthetic material properties utilized within the slope stability analyses will be verified during construction.

The slope stability calculations indicate that a stable cover system configuration will be maintained during the closure and post-closure periods. The FOSs for the proposed final cover system were calculated to be consistently greater than 1.3 and 1.5 for static construction/operational and post-closure conditions, respectively, and consistently greater than 1.1 and 1.5 for seismic construction/operational and post-closure conditions, respectively. All of the calculated slope stability FOSs meet or exceed the required minimum FOSs specified in 06-096 CMR 401(2)(F)(1) of the Department Rules.

Settlement of the proposed cover systems during the post-closure period was evaluated by SME. The calculations show that: 1) the as-placed cover grades are expected to change minimally during the post-closure period and the cover system drainage is not expected to be affected and 2) the HDPE geomembrane will maintain its integrity and performance at the maximum predicted settlements. The minimal amount of settlement calculated for Phase I is largely predicated on the minor regrading and filling that will be performed to construct the proposed cover system and that much of the waste in Phase I has been in place for several years. It is expected that only a small amount of settlement will occur during the post-closure period due to long-term waste degradation and waste compression.

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- C. Water Balance: Leachate volumes collected and treated from the Dolby Landfill Facility have averaged approximately 74.2 million gallons per year (“MGY”) over the past 5 years. SME estimates that the leachate generation rate from the Dolby Landfill Facility will be reduced to less than 7 MGY with the placement of a geomembrane cover over the portions of Dolby II and Dolby III that contribute to the facility’s leachate collection system. The resistance to infiltration and runoff characteristics of the proposed cover system has been evaluated using the Hydrogeologic Evaluation of Landfill Performance (“HELP”) model. The HELP model evaluation shows that the proposed cover system will meet the intent of the Department Rules by minimizing the infiltration of precipitation into the landfill after closure.
- D. Leachate Management Plan: The Dolby Landfill Cover Upgrade Project will not involve changes in the site’s current leachate collection system, leachate storage pond, or leachate transport system. The proposed cover system construction will be performed in discrete sections that will allow stormwater runoff to be managed properly. Areas of waste which are uncovered during the construction process will be contained using temporary berms constructed from existing cover soil to isolate the open areas and manage impacted runoff from these areas to the greatest practical extent. Impacted runoff will be diverted and/or pumped to various perimeter manholes adjacent to the work area for collection and subsequent treatment.
- E. Gas Management Plan: SME recognizes the potential for degradation of the landfill waste and has estimated the gas generation for the portion of the landfill that will be closed by Phase I of the Dolby Landfill Cover Upgrade Project. SME used historical as-built drawings and available annual reports to estimate the waste thickness and the types of waste placed in this area of the landfill. The Landfill Gas Emissions Model (“LandGEM”) was used to predict the quantity of gas that could be generated and the emission rate of non-methane organic compounds (“NMOC”) from Phase I. Gas collection pipe spacing and passive vent locations necessary to relieve gas pressures generated by the waste and maintain cover stability were determined using standard design methods. The gas calculations indicate that the NMOC emission rate from Phase I will be below the 50 megagrams per year threshold described in 06-096 CMR 401(5)(I)(6)(c) of the Department Rules. As such, SME states that no additional gas control measures for the Dolby Landfill Cover Upgrade Project - Phase I other than passive gas collection and venting are necessary.

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Gas monitoring will be performed during construction when modifications to the landfill interior manholes are made to accommodate placement of the geomembrane.

The Department finds that the proposed final cover system will maintain its integrity and performance under the maximum predicted settlement, minimize infiltration of precipitation into the landfill after closure, and adequately manage landfill gas; provided that, an engineering report is submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

12. QUALITY ASSURANCE PLAN

A Construction Quality Assurance (CQA) Plan, prepared by SME and dated April 2016, addressing the construction quality assurance for placement of final cover materials for the Dolby Landfill Cover Upgrade Project - Phase I has been developed and submitted with the Application. The CQA plan outlines the characterization of the cover system's physical properties to determine its ability to achieve the project's performance criteria; defines procedures for cover placement; defines tests and frequency of testing to assure the construction of the cover meets or exceeds design criteria; and provides a method for documenting the cover placement. Geosynthetics and soil components will be inspected, tested, and certified by qualified CQA personnel independent of the Owner and Contractor.

The Department finds that the DAFS/BGS will implement adequate construction quality assurance measures to assure that design specifications and performance requirements for all facility components are met during construction of the Dolby Landfill Cover Upgrade Project; provided that, a CQA Plan is submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

13. CONSTRUCTION CONTRACT BID DOCUMENTS

The DAFS/BGS has submitted *Contract Documents and Construction Specifications, Dolby Landfill Cover System Upgrade – Phase 1 (Documents)*, prepared by SME and dated April 2016. The Documents include drawings, technical specifications, and contract administrative documents for the Dolby Landfill Cover Upgrade Project - Phase I. The Documents describe the proposed project and the means and methods for the installation of the final cover systems.

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The Department finds that the construction contract bid documents were adequately prepared and meet the requirements of 06-096 CMR 401(5)(L); provided that, construction contract bid documents, including drawings, technical specifications, and contract administrative documents are submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

14. POST-CLOSURE MONITORING AND MAINTENANCE

An Environmental Monitoring Plan (EMP), dated April 2011, was previously submitted and approved by the Department. The EMP meets the requirements of 06-096 CMR 405 and will be the basis for the post-closure water quality monitoring program for the Dolby Landfill Facility. Provisions for groundwater, surface water, leachate and gas monitoring are outlined in the EMP. Specific procedures for the inspection and maintenance of facility components are outlined in the facility Operating Manual, dated April 2012. Slope stability and settlement monitoring of the proposed cover systems will be routinely conducted during the post-closure period. This monitoring will consist of visual inspections of the completed cover system and periodic topographical surveys for comparison to the cover surface elevations at the time of construction completion. Post-closure slope stability and settlement monitoring will be conducted annually unless conditions are encountered that warrant more frequent monitoring. The post-closure monitoring and maintenance plan will need to be revised to reflect changes associated with the Dolby Landfill Cover Upgrade Project.

Groundwater monitoring data shows that groundwater quality at monitoring well (“MW”) 301, MW-302B and MW-302C has deteriorated over time. Data shows that these wells generally began to experience increasing trends for several parameters in the year 2000. The exact cause of increasing trends is unknown; however, completion of the Dolby Landfill Cover Upgrade Project is expected to help mitigate these impacts. The EMP includes a requirement for the ongoing statistical analysis of the monitoring data, using statistical tests approved by the Department, to evaluate trends in groundwater quality. The results of the ongoing evaluation will be provided in the annual report.

SME has submitted a June 23, 2016 letter proposing to evaluate the effectiveness of the Dolby Landfill Cover Upgrade Project relative to improving groundwater quality 5 years after the substantial completion of construction activities of the Dolby Landfill Cover Upgrade Project. Completion of the Dolby Landfill Upgrade Project is scheduled to occur during 2019.

The Department finds that the DAFS/BGS has adequately addressed post-closure monitoring and maintenance for the Dolby Landfill Facility; provided that: (1) the post-

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closure monitoring and maintenance plan is revised to reflect changes associated with the Dolby Landfill Cover Upgrade Project and is submitted for Department review and approval at least 30 days prior to substantial completion of construction activities within the Dolby Landfill Cover Upgrade Project - Phase I and (2) five years after the substantial completion of the Dolby Landfill Cover Upgrade Project or no later than year end of 2024, whichever is earlier, the DAFS/BGS submits to the Department, for review and approval, an evaluation of water quality data from MW-301, MW-302B and MW-302C. If there has been no improvement in the water quality at MW-301, MW-302B and MW-302C, the DAFS/BGS must submit a Corrective Action Plan within 90 days of the submittal of the evaluation of water quality data from MW-301, MW-302B and MW-302C, prepared in accordance with the applicable rules in effect at that time, to the Department for review and approval. Once the Corrective Action Plan has been approved by the Department, the plan must be implemented within one year of approval.

15. FINAL USE/PERMANENT RECORD

The DAFS/BGS proposes to maintain the property that the landfill is on as open space. Permanent buildings will not be placed within 100 feet of the landfill. Currently, there are no specific plans for final use of the Dolby Landfill Facility.

Following the completion of the Dolby Landfill Cover Upgrade Project, the DAFS/BGS will prepare and record in the Penobscot County Registry of Deeds information and necessary deed restrictions to provide notice to prospective purchasers and a public record of the location of the Dolby II and Dolby III landfills. The DAFS/BGS will also provide a copy of the record information and necessary deed restrictions to the Department as required by 06-096 CMR 401(5)(B)(4). The final cover or other components of the containment systems or the functioning of the monitoring systems may not be disturbed without the written approval of the Department.

The Department finds that the DAFS/BGS has provided for the permanent record related to the Dolby Landfill Facility.

BASED on the above Findings of Facts, and subject to the CONDITIONS listed below, the Department makes the following CONCLUSIONS:

1. The DAFS/BGS has submitted evidence of sufficient title, right, or interest with respect to the property proposed for use.
2. The DAFS/BGS has complied with all of the public notice requirements of 06-096 CMR 2 and 400.

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3. The DAFS/BGS has provided adequate evidence of financial and technical ability to design, construct, operate, maintain, close and accomplish post-closure care of the solid waste facility in a manner consistent with all applicable requirements.
4. The DAFS/BGS is exempt from the liability insurance requirements of 06-096 CMR 400(10).
5. The Dolby Landfill Cover Upgrade Project will not unreasonably cause or increase flooding and will have no unreasonable effect on surface water. The DAFS/BGS has adequately addressed stormwater management for the proposed project.
6. The Dolby Landfill Cover Upgrade Project will not cause unreasonable sedimentation or erosion of soil. The DAFS/BGS has adequately addressed erosion and sedimentation control for the proposed project.
7. The DAFS/BGS has completed a site assessment report that adequately supports the design of the proposed final cover system and conducts water quality monitoring in accordance with the Department Rules.
8. The proposed final cover system will maintain its integrity and performance under the maximum predicted settlement, minimize infiltration of precipitation into the landfill after closure, and adequately manage landfill gas.
9. The DAFS/BGS has proposed a final cover system design meeting the requirements of the Department Rules; provided that, an engineering report, a CQA Plan and the construction contract bid documents, including drawings, technical specifications, and the contract administrative documents are submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.
10. The DAFS/BGS has provided for post-closure monitoring and maintenance in accordance with Department Rules; provided that: (1) the post-closure monitoring and maintenance plan is revised to reflect changes associated with the Dolby Landfill Cover Upgrade Project and is submitted for Department review and approval at least 30 days prior to substantial completion of construction activities within the Dolby Landfill Upgrade Project - Phase I and (2) five years after the substantial completion of the Dolby Landfill Cover Upgrade Project or no later than year end of 2024, whichever is earlier, an evaluation of water quality data from MW-301, MW-302B and MW-302C is submitted for Department review and approval. If there has been no improvement in the water quality at MW-301, MW-302B and MW-302C, the DAFS/BGS must submit a Corrective Action Plan within 90 days of the submittal of the evaluation of water quality from MW-

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301, MW-302B and MW-302C, prepared in accordance with the applicable rules in effect at that time, to the Department for review and approval. Once the Corrective Action Plan has been approved by the Department, the plan must be implemented within one year of approval.

11. The DAFS/BGS has provided for the permanent record related to the site.
12. The Dolby Landfill Cover Upgrade Project will not pollute any waters of the State, contaminate the ambient air, constitute a hazard to health and welfare, or create a nuisance.

THEREFORE, the Department APPROVES the above noted application of the STATE OF MAINE, DEPARTMENT OF ADMINISTRATIVE and FINANCIAL SERVICES, BUREAU OF GENERAL SERVICES, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations:

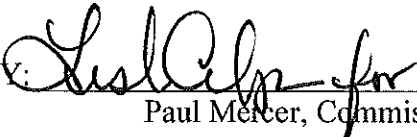
1. The Standard Conditions of Approval, a copy attached as Appendix A.
2. The invalidity or unenforceability of any provision, or part thereof, of this license shall not affect the remainder of the provision or any other provisions. This license shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.
3. At least 3 months prior to the commencement of construction of each subsequent phase, the DAFS/BGS shall submit an engineering report, a CQA Plan and the construction contract bid documents including drawings, technical specifications, and the contract administrative documents to the Department for review and approval.
4. At least 30 days prior to substantial completion of construction activities within the Dolby Landfill Cover Upgrade Project - Phase I, the DAFS/BGS shall submit to the Department, for review and approval, a revised post-closure monitoring and maintenance plan to reflect changes associated with the Dolby Landfill Cover Upgrade Project.
5. Five years after the substantial completion of the Dolby Landfill Cover Upgrade Project or no later than year end of 2024, whichever is earlier, the DAFS/BGS shall submit to the Department, for review and approval, an evaluation of water quality data from MW-301, MW-302B and MW-302C. If there has been no improvement in water quality at MW-301, MW-302B and MW-302C, the DAFS/BGS shall submit a Corrective Action Plan within 90 days of the submittal of the evaluation of water quality data from MW-301, MW-302B and MW-302C, prepared in accordance with the applicable rules in effect at that time, to the Department for review and approval.

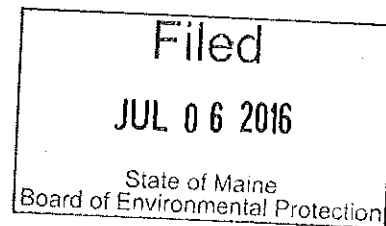
STATE OF MAINE, ACTING THROUGH THE) 14 SOLID WASTE
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Once the Corrective Action Plan has been approved by the Department, the plan shall be implemented within one year of approval.

DONE AND DATED AT AUGUSTA, MAINE, THIS 30th DAY OF June, 2016.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: 
Paul Mercer, Commissioner



PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

Date of initial receipt of application: April 7, 2016

Date of application acceptance: April 27, 2016

Date filed with the Board of Environmental Protection:

xlp80430/lsp



Appendix A

STANDARD CONDITIONS TO ALL SOLID WASTE LANDFILL LICENSES

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL. VIOLATIONS OF THE CONDITIONS UNDER WHICH A LICENSE IS ISSUED SHALL CONSTITUTE A VIOLATION OF THAT LICENSE AGAINST WHICH ENFORCEMENT ACTION MAY BE TAKEN, INCLUDING REVOCATION.

1. **Approval of Variations from Plans.** The granting of this approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed by the licensee. Any consequential variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation.
2. **Compliance with All Applicable Laws.** The licensee shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.
3. **Compliance with All Terms and Conditions of Approval.** The licensee shall submit all reports and information requested by the Department demonstrating that the licensee has complied or will comply with all terms and conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
4. **Transfer of License.** The licensee may not transfer the solid waste facility license or any portion thereof without approval of the Department.
5. **Initiation of Construction or Development Within Two Years.** If the construction or operation of the solid waste facility is not begun within two years of issuance or within 2 years after any administrative and judicial appeals have been resolved, the license lapses and the licensee must reapply to the Department for a new license unless otherwise approved by the Department.
6. **Approval Included in Contract Bids.** A copy of the approval must be included in or attached to all contract bid specifications for the solid waste facility.
7. **Approval Shown to Contractors.** Contractors must be shown the license by the licensee before commencing work on the solid waste facility.
8. **Background of key individuals.** A licensee may not knowingly hire as an officer, director or key solid waste facility employee, or knowingly acquire an equity interest or debt interest in, any person convicted of a felony or found to have violated a State or federal environmental law or rule without first obtaining the approval of the Department.



Appendix A

STANDARD CONDITIONS TO ALL SOLID WASTE LANDFILL LICENSES

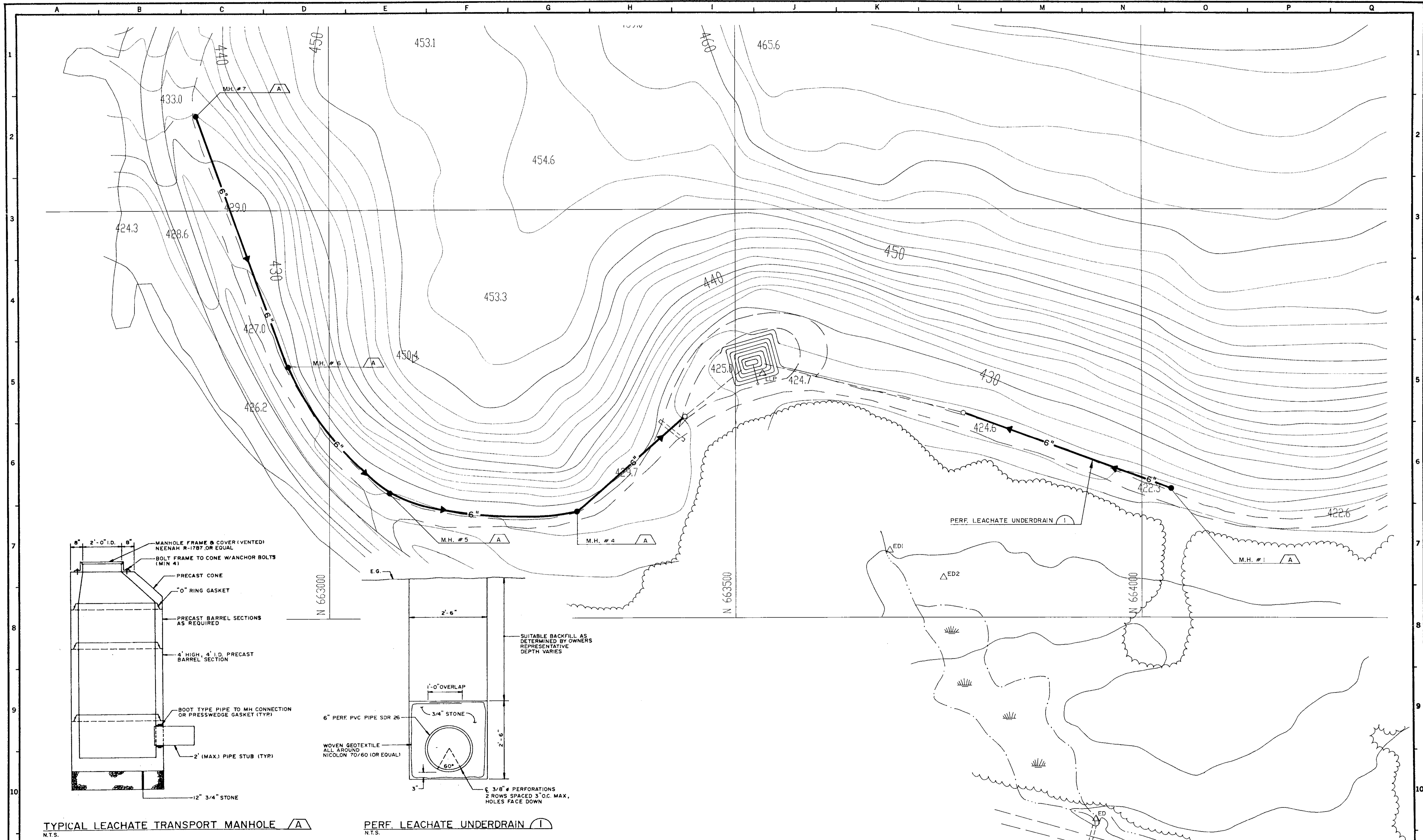
9. **Fees.** The licensee must comply with annual license and annual reporting fee requirements of the Department's rules.
10. **Recycling and Source Reduction Determination for Solid Waste Disposal Facilities.** This condition does not apply to the expansion of a commercial solid waste disposal facility that accepts only special waste for landfilling.

The solid waste disposal facility shall only accept solid waste that is subject to recycling and source reduction programs, voluntary or otherwise, at least as effective as those imposed by 38 M.R.S. Chapter 13.

11. **Deed Requirements for Solid Waste Disposal Facilities.** Whenever any lot of land on which an active, inactive, or closed solid waste disposal facility is located is being transferred by deed, the following must be expressly stated in the deed:
 - A. The type of facility located on the lot and the dates of its establishment and closure.
 - B. A description of the location and the composition, extent, and depth of the waste deposited.
 - C. The disposal location coordinates of asbestos wastes must be identified.

APPENDIX B

**ENGINEERING DRAWINGS FOR DOLBY LANDFILL FACILITY
(This Appendix is supplied via compact disk)**



TYPICAL LEACHATE TRANSPORT MANHOLE (A)
N.T.S.

PERF. LEACHATE UNDERDRAIN (I)
N.T.S.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
YB-19328	TEMPORARY LEACHATE POND, DOLBY II LANDFILL			11/91	RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	RR	6/91
CKD	5/20/91	MLL
CKD		
CORR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL/O	C - CONST	
SCALE 1" = 50'		



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY II LANDFILL
NORTHEAST INTERCEPTOR
TRENCH EXTENSION

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703_7082
YB-20021

GREAT NORTHERN PAPER, INC.

A SUBSIDIARY OF BOWATER INCORPORATED

MILLINOCKET, MAINE

DOLBY II LANDFILL REGRADING

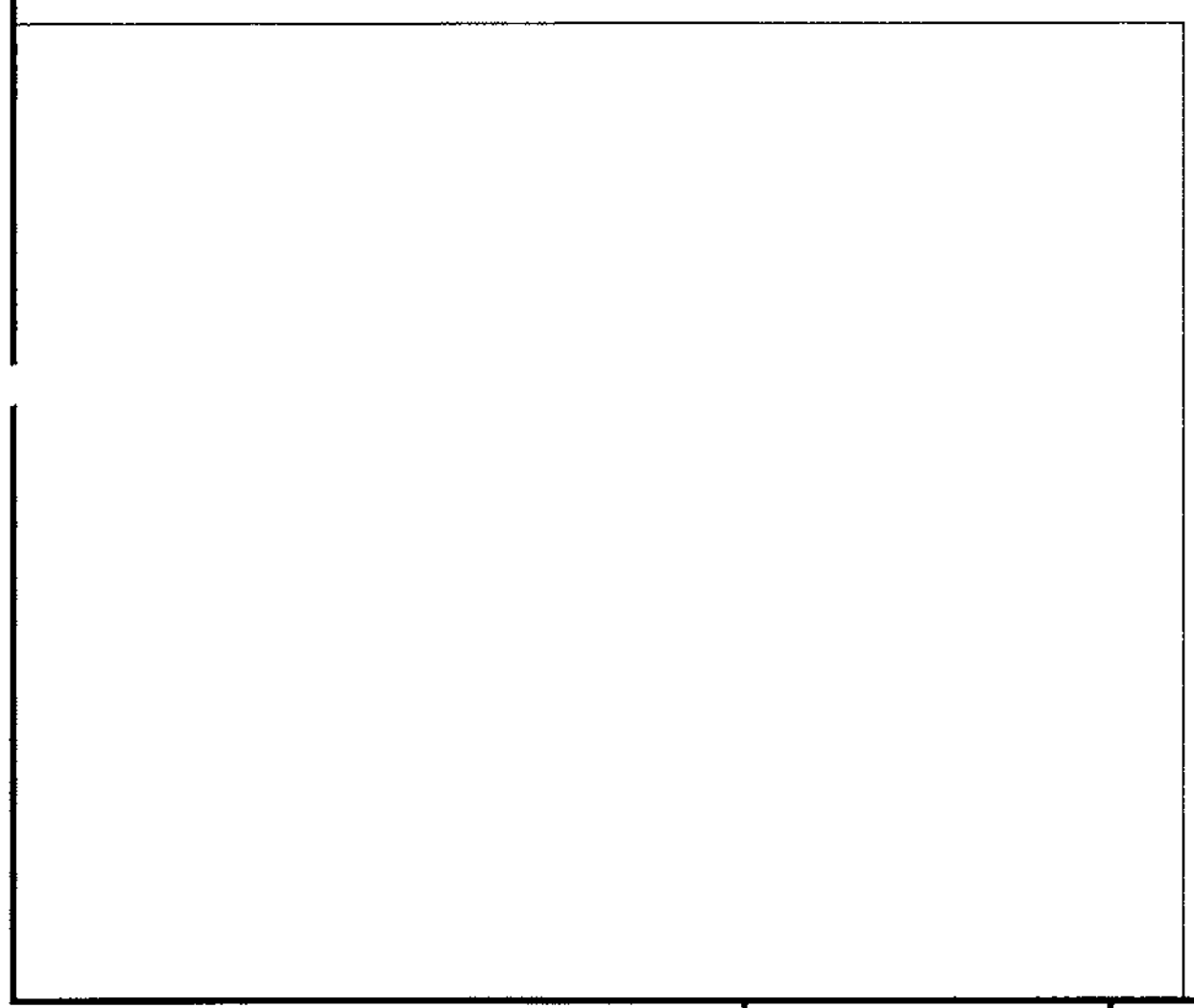
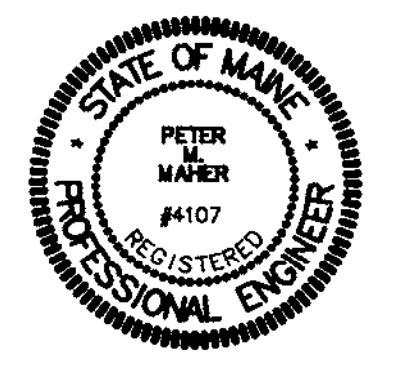
SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-23586
2	SYMBOLS & ABBREVIATIONS	YB-23587
3	SITE LOCATION PLAN	YB-23588
4	SITE DEVELOPMENT PLAN	YB-23589
5	DOLBY II NORTH SITE DEVELOPMENT PLAN	YB-23590
6	DOLBY II SOUTH SITE DEVELOPMENT PLAN	YB-23591
7	FINAL GRADING PLAN	YB-23592
8	SECTIONS & DETAILS	YB-23593

N.I.T.C.

SEVEE & MAHER ENGINEERS, INC.

CUMBERLAND, MAINE

1996



SEVEE & MAHER ENGINEERS, INC. CONSULTING ENGINEERS CUMBERLAND CENTER, MAINE JOB NO. 95068	DRN	PAF	BOWATER Great Northern Paper	EAST OPERATION
	CHK	GHC		DOLBY II LANDFILL REGRADING COVER SHEET
	CORR	APPVD		JOB NO. 67996
	ISSUE CODE			ENG. REG. NO.
P - Prelim	B - Bids	FILE NO. 2-092-4703,7082	YB-23586	
M - Mtg T.O.	C - Const.			
SCALE				

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		NORTH ARROW (MAGNETIC)			NORTH ARROW (PLAN NORTH)
		CONTOUR LINES			EDGE OF WATER
		SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)
		EXISTING GROUND			FENCE LINE (WOOD)
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			FENCE LINE (WIRE)
		PROPERTY LINE OR R.O.W.			RETAINING WALL
		PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL
		CONSTRUCTION BASELINE			BUILDING AND STRUCTURES
		BOUNDARY LINE (State, County, Municipality)			SLOPE RATIO (HORIZONTAL TO VERTICAL)
		SURVEY MONUMENT			SLOPES (WITH SLOPE RATIO)
		SURVEY IRON			EDGE OF TRAVELED WAY
		DRILL HOLE, PK, OR STAKE			CUT OR FILL LINE
		WOODS OR BRUSH LINE			CLEARING LIMIT LINE
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT
		INDIVIDUAL TREE (Coniferous)			CONCRETE
		TREE, TO BE REMOVED			TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
		MARSH AREA			TEST PIT AND NUMBER
					MANHOLE
					CATCH BASIN
					WATER VALVE
					HYDRANT
					UTILITY POLE
					CLEAN OUT STRUCTURE
					UNDERGROUND GAS MAIN
					UNDERGROUND TELEPHONE LINE
					UNDERGROUND ELECTRICAL LINE
					OVERHEAD ELECTRICAL LINE
					SANITARY SEWER (SIZE & TYPE)
					FORCE MAIN (SIZE & TYPE)
					WATER MAIN (SIZE & TYPE)
					STORM DRAIN (SIZE & TYPE)
					UNDERDRAIN (SIZE & TYPE)
					CULVERT
					RAILROAD
					SILTATION FENCE
					PERIMETER DRAIN (SIZE & TYPE)
					LEACHATE TRANSPORT (SIZE & TYPE)
					LEACHATE COLLECTION (SIZE & TYPE)
					LEAK DETECTION, SIZE & TYPE

GENERAL NOTES:

- THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
- CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
- EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 85 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	<5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM WORK AREA PRIOR TO PLACING THE EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDDED.

MATERIALS -

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K)

10 LBS PER UNIT

SEED:	PERCENT
TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

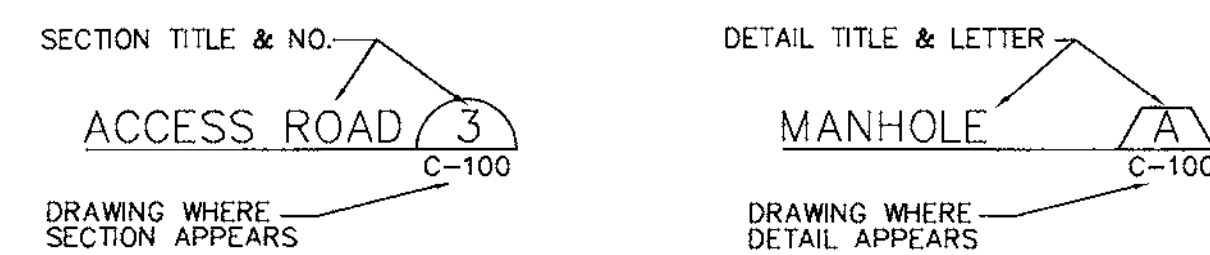
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

A.C.C.M.P.	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HOPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	PD	PERIMETER DRAIN
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT	P.L.	POINT OF INTERSECTION
AGG	AGGREGATE	DEPT	DEPARTMENT	I.D.	INSIDE DIAMETER	P.T.	POINT OF TANGENT
ALUM	ALUMINUM	DI	DIAMETER	IN OR "	INCHES	PERF	PERFORATED
APRD	APPROVED	DIA OR Ø	DIAMETER	INV	INVERT	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	DIM	DIMENSION	INVT	INVERT ELEVATION	PVC	POLYVINYL CHLORIDE
ASB	ASBESTOS	DIST	DISTANCE	INV. EL	INVERT ELEVATION	PVMT	PAVEMENT
ASPH	ASPHALT	DN	DOWN	LB	POUND	QTY	QUANTITY
AUTO	AUTOMATIC	DR	DRAIN	LC	LEACHATE COLLECTION	R.O.W.	RIGHT OF WAY
AUX	AUXILIARY	DWG	DRAWING	LD	LEAK DETECTION	RAD	RADIUS
AVE	AVENUE	DR	DRAIN	LN FT.	LINEAR FEET	REQD	REQUIRED
AZ	AZIMUTH	EA	EACH	LOC	LOCATION	RT	ROUTE
		EG	EXISTING GROUND OR GRADE	LT	LEACHATE TRANSPORT	RTE	ROUTE
		ELEC	ELECTRIC	M.H.	MANHOLE	S	SLOPE
		ELB	ELBOW	M.J.	MECHANICAL JOINT	SCH	SCHEDULE
		EQUIP	EQUIPMENT	MATL	MATERIAL	SF	SQUARE FEET
		EST	ESTIMATED	MAX	MAXIMUM	SHIT	SHIT
		EXC	EXCAVATE	MFR	MANUFACTURE	STA	STATION
		EXIST	EXISTING	MIN	MINIMUM	SY	SQUARE YARD
		F.G.	FINISH GRADE	MISC	MISCELLANEOUS	TAN	TANGENT
		FBRGL	FIBERGLASS	MON	MONUMENT	TDH	TOTAL DYNAMIC HEAD
		FM	FOUNDATION	N.I.T.C.	NOT IN THIS CONTRACT	TEMP	TEMPORARY
		FLEX	FLEXIBLE	N.T.S.	NOT TO SCALE	TYP	TYPICAL
		FLG	FLANGE	N/F	NOW OR FORMERLY	V	VOLTS
		FLR	FLOOR	NO. OR #	NUMBER	W	WITH
		FPS	FEET PER SECOND	O.C.	ON CENTER	W/O	WITHOUT
		FT OR'	FEET	O.D.	OUTSIDE DIAMETER	YD	YARD
		FTG	FOOTING				
		GA	GAUGE				
		GAL	GALLON				
		GALV	GALVANIZED				
		GPD	GALLONS PER DAY				
		GPM	GALLONS PER MINUTE				

VIEW MARKERS & IDENTIFICATION



DRAWING NO.	REFERENCE DRAWING TITLE	CODE NO.	DATE	REVISION	BY	CHKD	APPROV	JOB NO.
			2/20/96	ISSUED FOR BID				
			2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

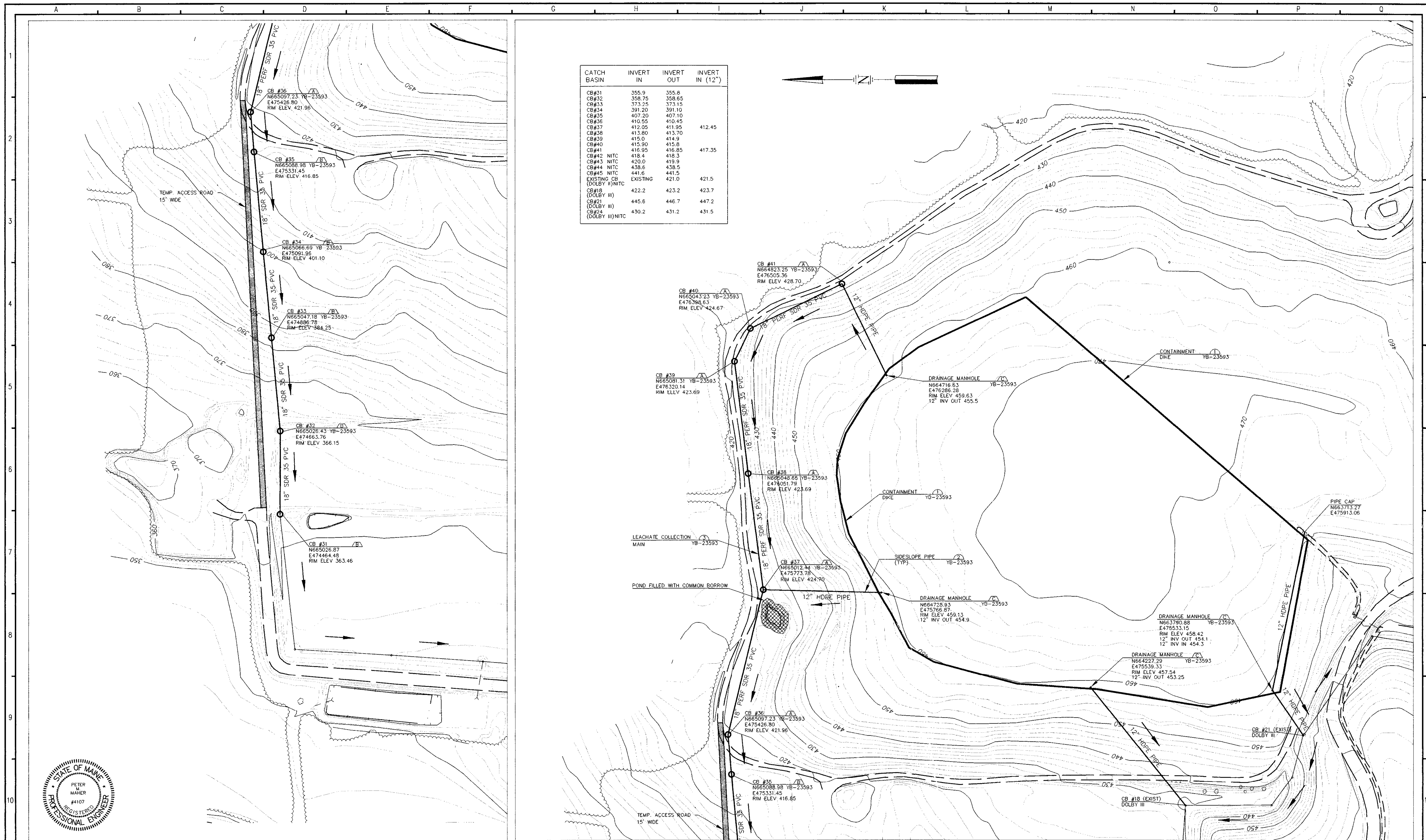
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CHK	GHC
CHK	
CORR	
APPROV	
ISSUE CODE	
P - Prelim	B - Bids
M - M.U.T.O.	C - Const.
SCALE AS SHOWN	



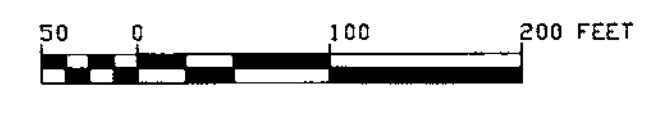
EAST OPERATION
DOLBY II LANDFILL REGRADING
SYMBOLS & ABBREVIATIONS

JOB NO. 67996
ENG. REG. NO. _____
FILE NO. 2-092-4603,7082

YB-23587



CATCH BASIN	INVERT IN	INVERT OUT	INVERT IN (12")
CB#31	355.9	355.8	
CB#32	358.75	358.65	
CB#33	373.25	373.15	
CB#34	391.20	391.10	
CB#35	407.20	407.10	
CB#36	410.55	410.45	
CB#37	412.05	411.95	412.45
CB#38	413.80	413.70	
CB#39	415.0	414.9	
CB#40	415.90	415.8	
CB#41	416.95	416.85	417.35
CB#42 NITC	418.4	418.3	
CB#43 NITC	420.0	419.9	
CB#44 NITC	438.6	438.5	
CB#45 NITC	441.6	441.5	
EXISTING CB (DOLBY II)NITC	EXISTING	EXISTING	421.5
CB#18	422.2	423.2	423.7
CB#21 (DOLBY III)	445.6	446.7	447.2
CB#24 (DOLBY III)NITC	430.2	431.2	431.5



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.
	BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE - PHOTO DATE 10/23/95. GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE								
	STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.			1/16/97	RECORD DRAWING				
				2/20/96	ISSUED FOR BID				
				2/9/98	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

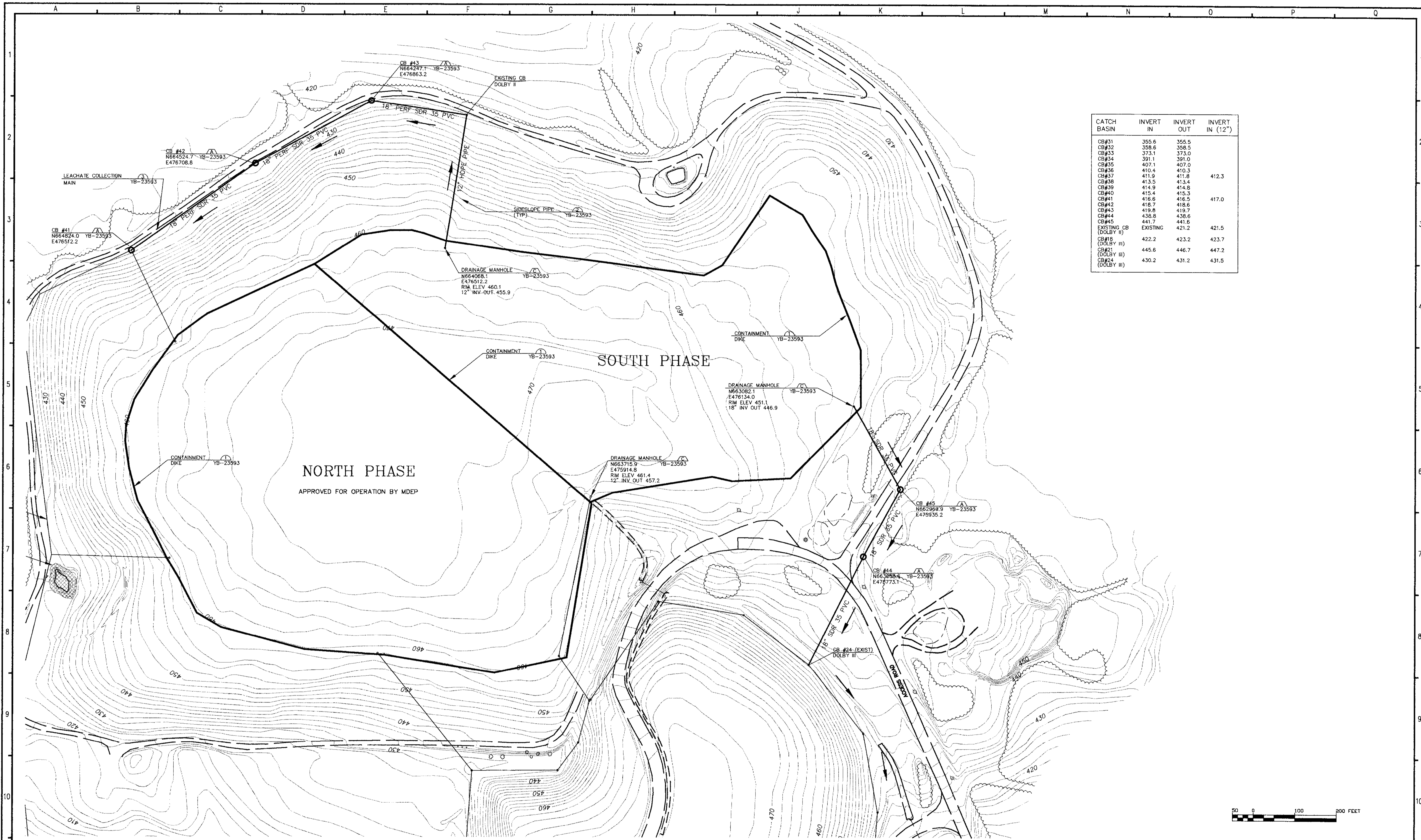
JOB NO. 95068

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
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M - Mtl T.O.	C - Const.
SCALE: AS SHOWN	

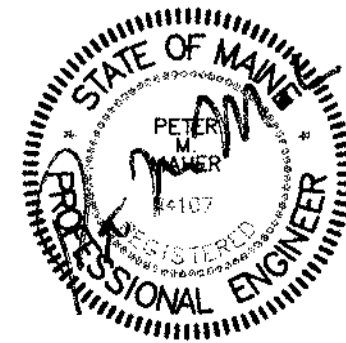
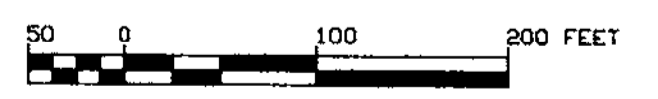


EAST OPERATION
DOLBY II LANDFILL REGRADING
DOLBY II NORTH SITE DEVELOPMENT PLAN

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703.7082
YB-23590



CATCH BASIN	INVERT IN	INVERT OUT	INVERT IN (12")
CB#31	355.6	355.5	
CB#32	358.6	358.5	
CB#33	373.1	373.0	
CB#34	391.1	391.0	
CB#35	407.1	407.0	
CB#36	410.4	410.3	
CB#37	411.9	411.8	412.3
CB#38	413.5	413.4	
CB#39	414.9	414.8	
CB#40	415.4	415.3	
CB#41	416.6	416.5	417.0
CB#42	418.7	418.6	
CB#43	419.8	419.7	
CB#44	438.8	438.6	
CB#45	441.7	441.6	
EXISTING CB (DOLBY II)	EXISTING	421.2	421.5
CB#18 (DOLBY III)	422.2	423.2	423.7
CB#21 (DOLBY III)	445.6	446.7	447.2
CB#24 (DOLBY III)	430.2	431.2	431.5



BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE - PHOTO DATE 10/23/95.									
GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE									
STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.			12/28/97	RECORD DRAWING					
			3/11/97	PROJECT STATUS TO MDEP					
			2/20/96	ISSUED FOR BID					
			2/9/96	SUBMITTED TO CLIENT					
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPROV	JOB NO.

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

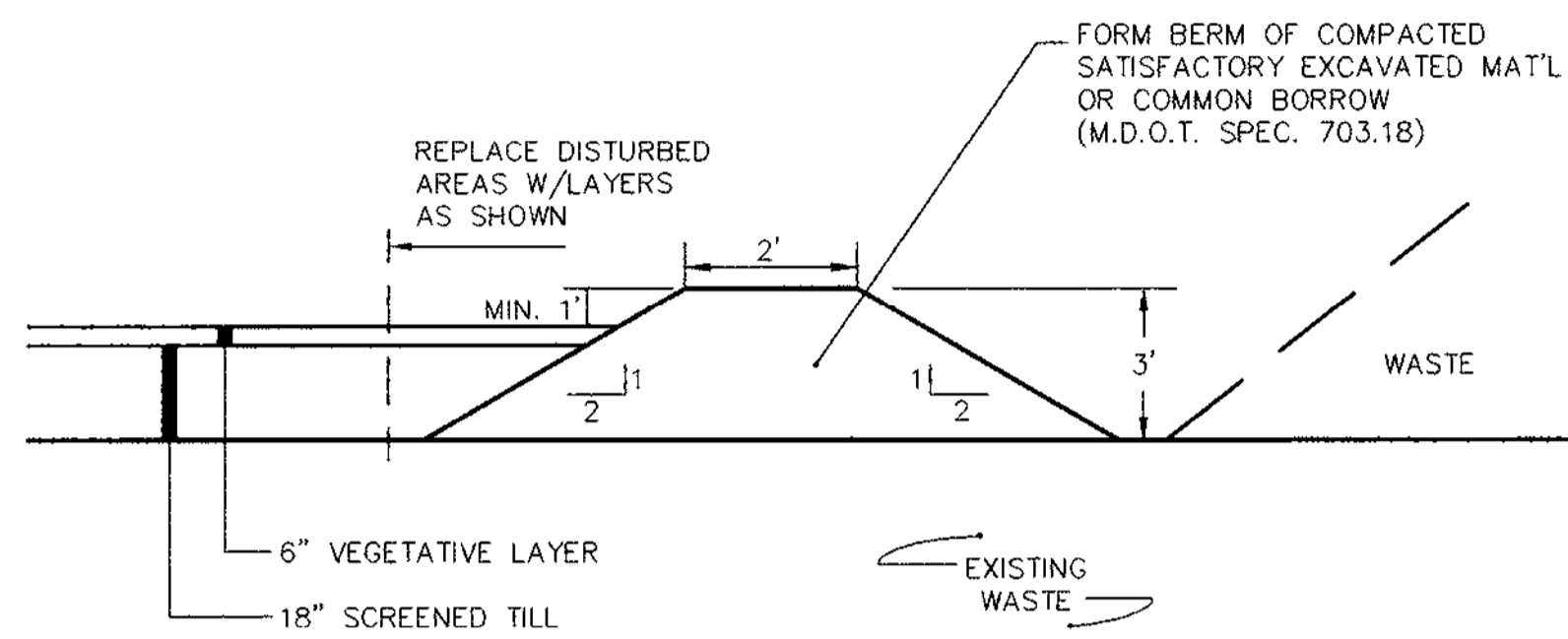
JOB NO. 95068

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CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mtl. T.O.	C - Const.
SCALE AS SHOWN	

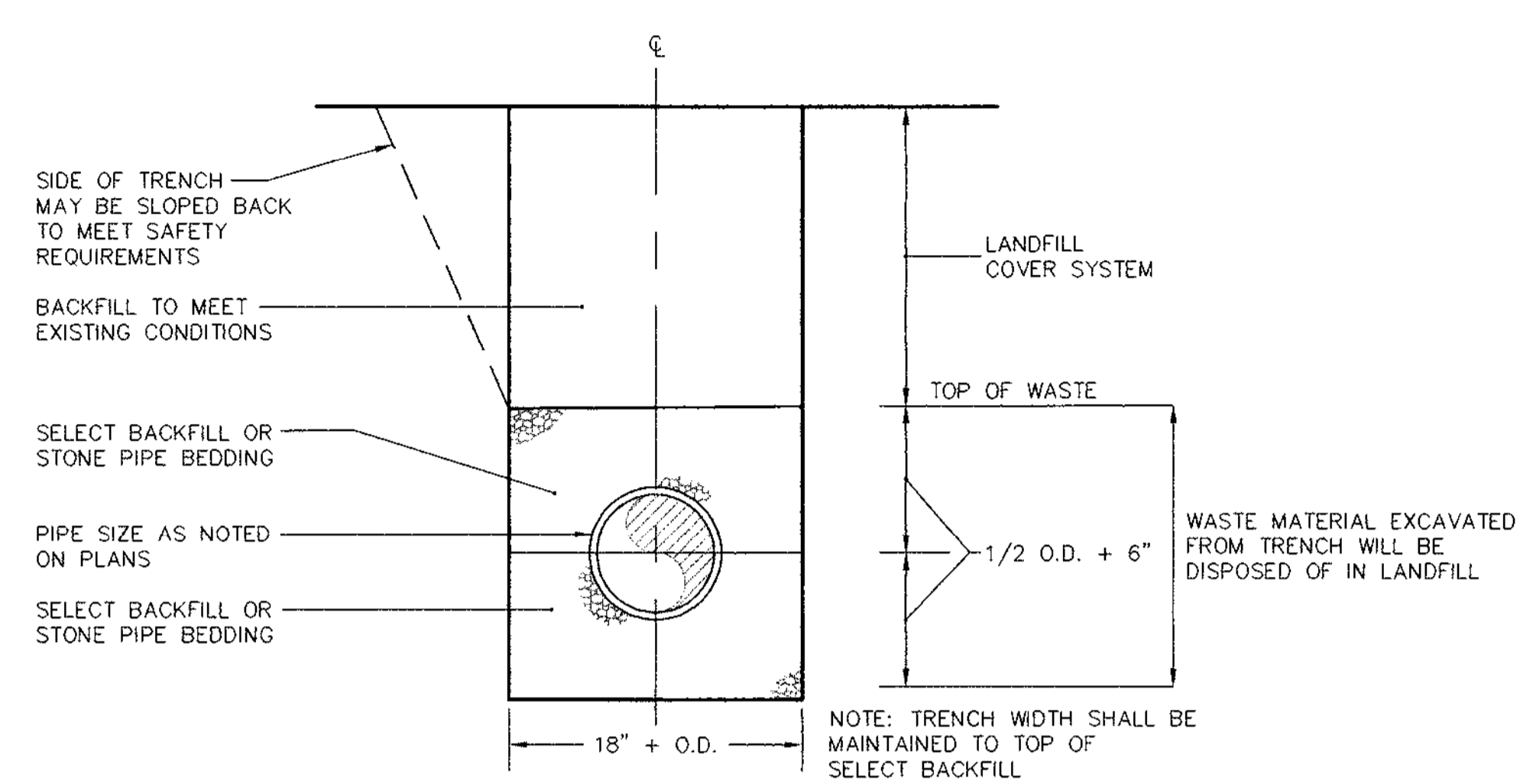


EAST OPERATION	
DOLBY II LANDFILL REGRADING DOLBY II SOUTH SITE DEVELOPMENT PLAN	
JOB NO. 67996	YB-23591
ENG. REQ. NO.	
FILE NO. 2-092-4703,7082	

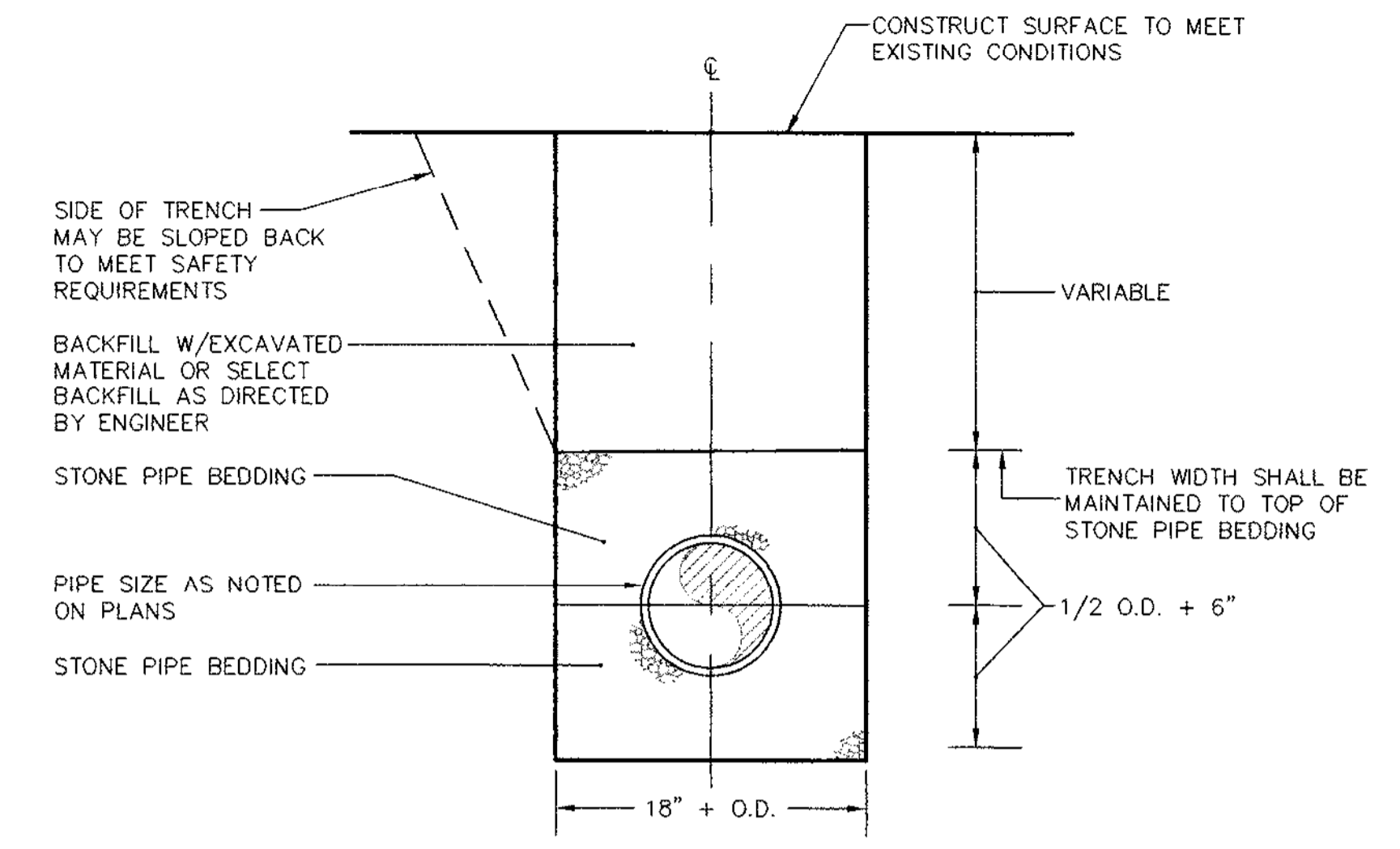
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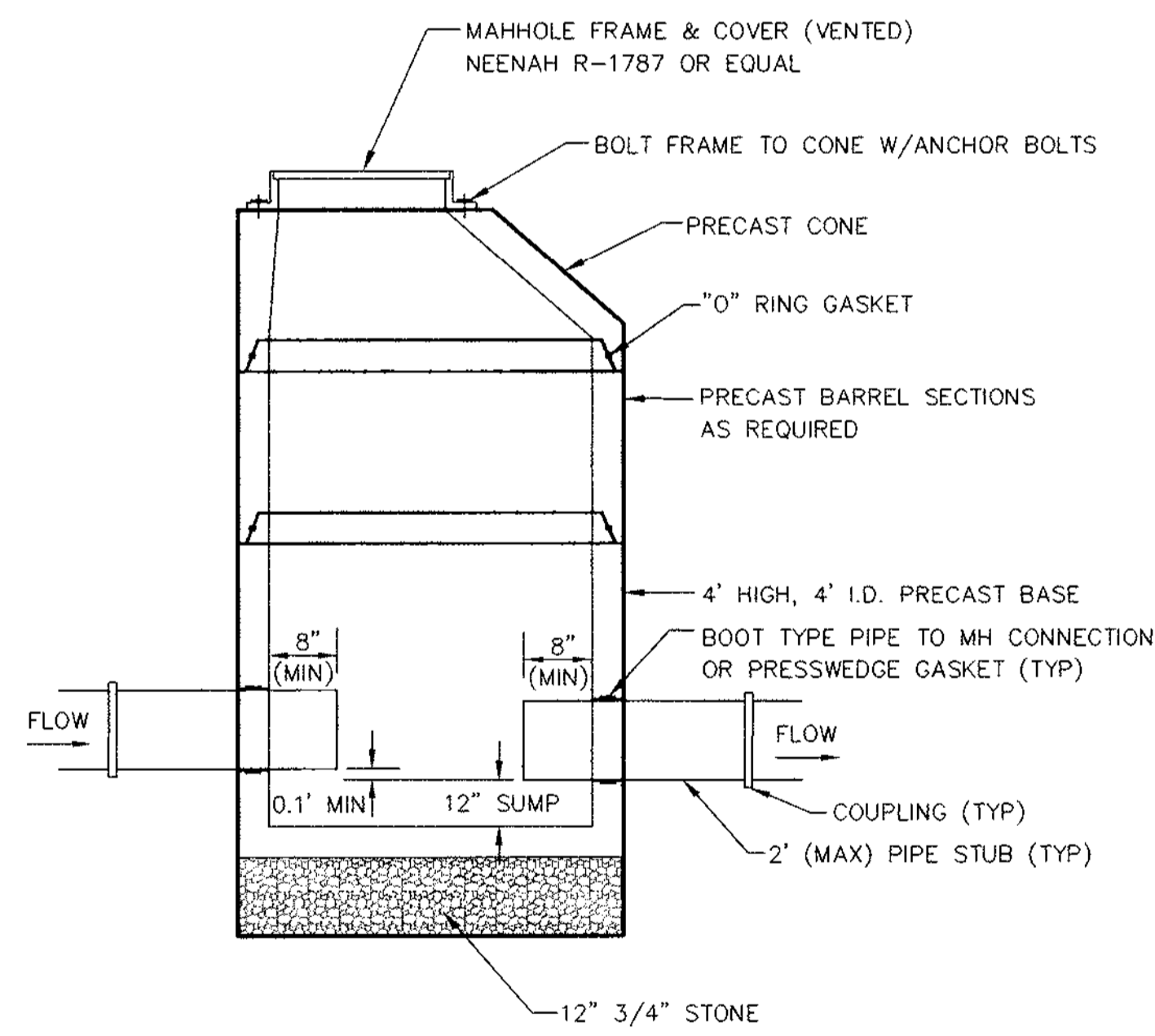
DIKE SECTION 1
NTS
YB-23590
YB-23591



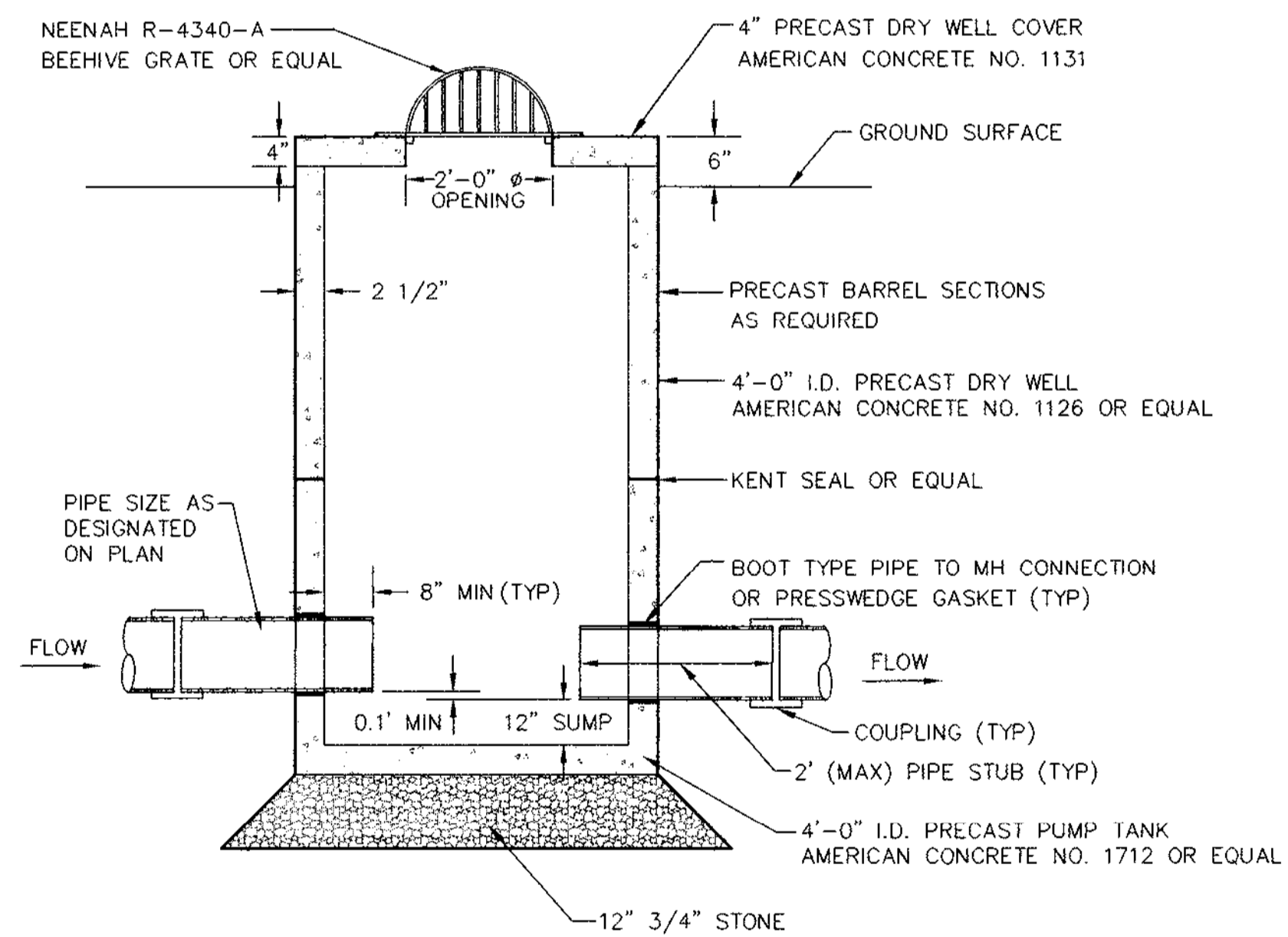
SIDESLOPE PIPE TRENCH 2
NTS
YB-23590
YB-23591



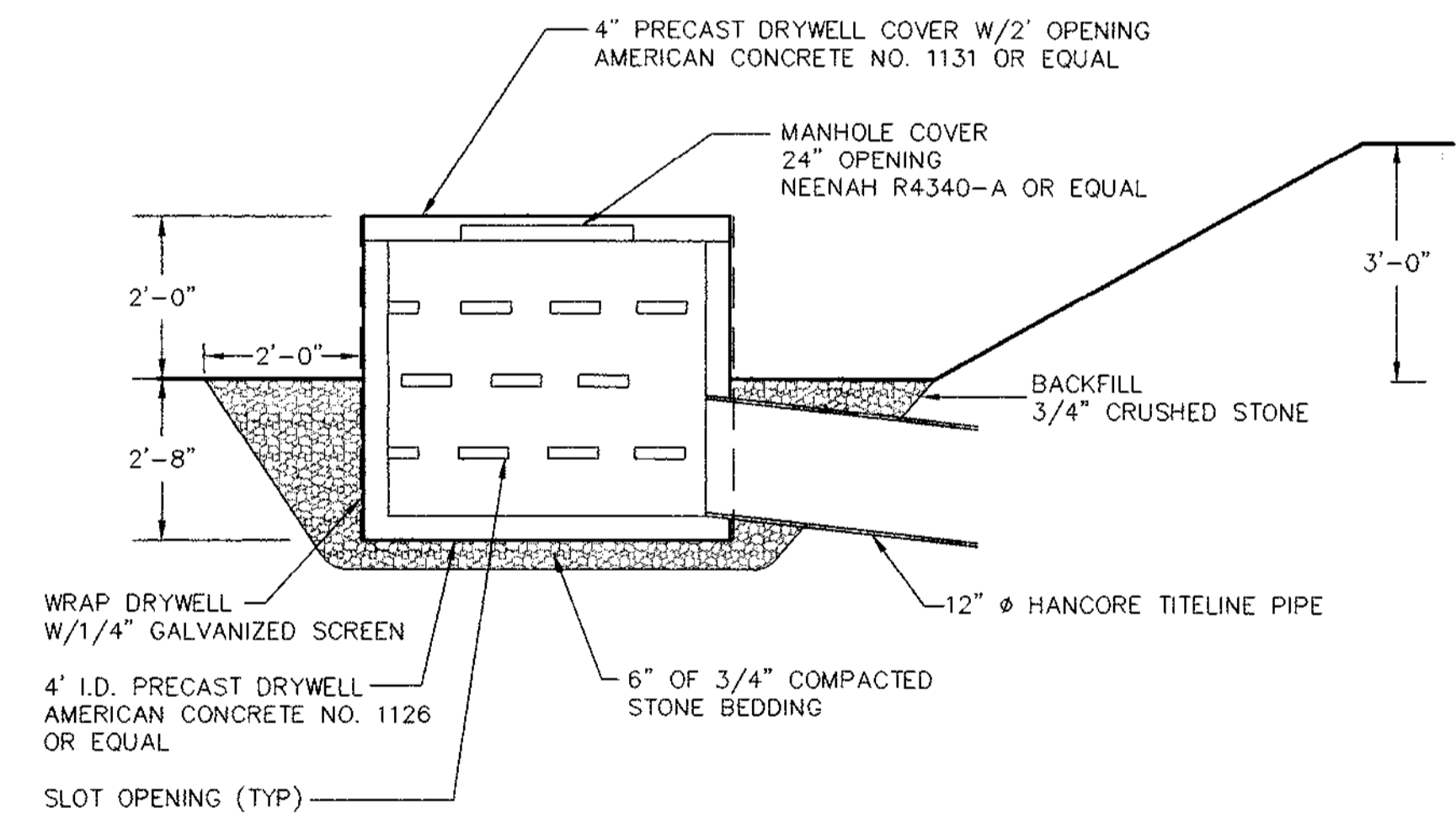
LEACHATE COLLECTION MAIN PIPE TRENCH 3
NTS
YB-23590
YB-23591



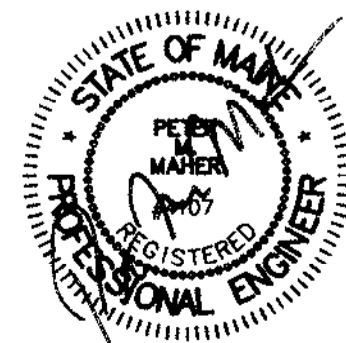
TYPICAL MANHOLE A
NTS
YB-23590
YB-23591



CATCH BASIN B
NTS
YB-23590



DRAINAGE MANHOLE C
NTS
YB-23590
YB-23591



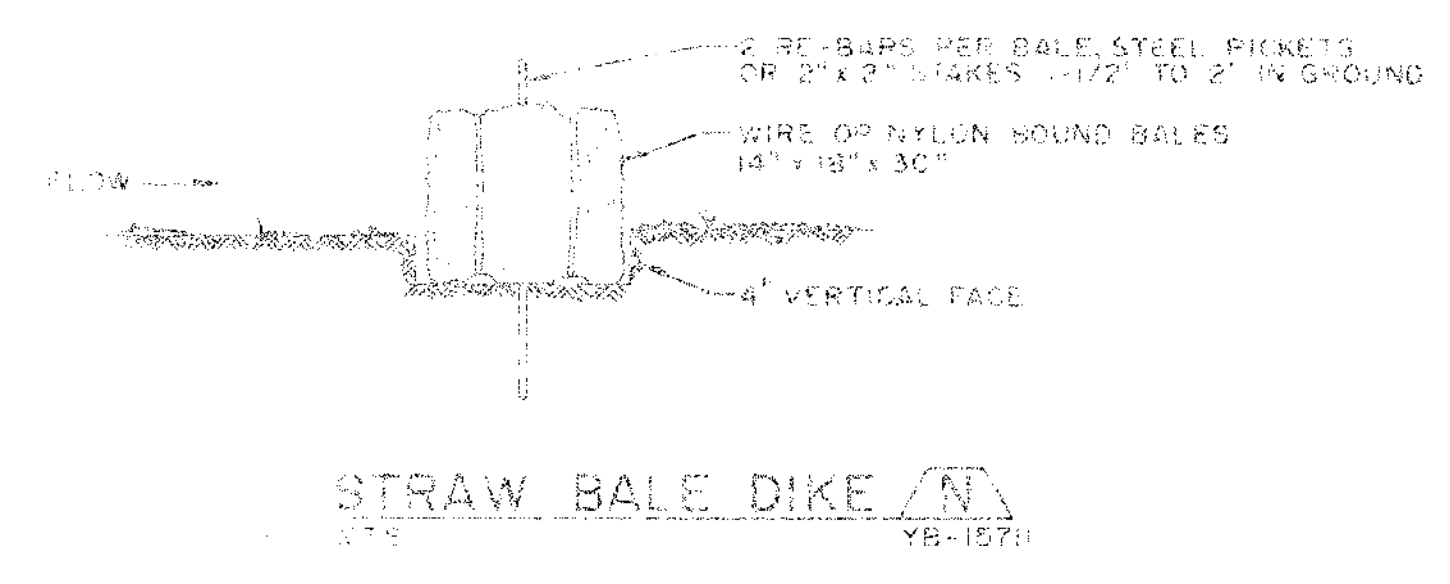
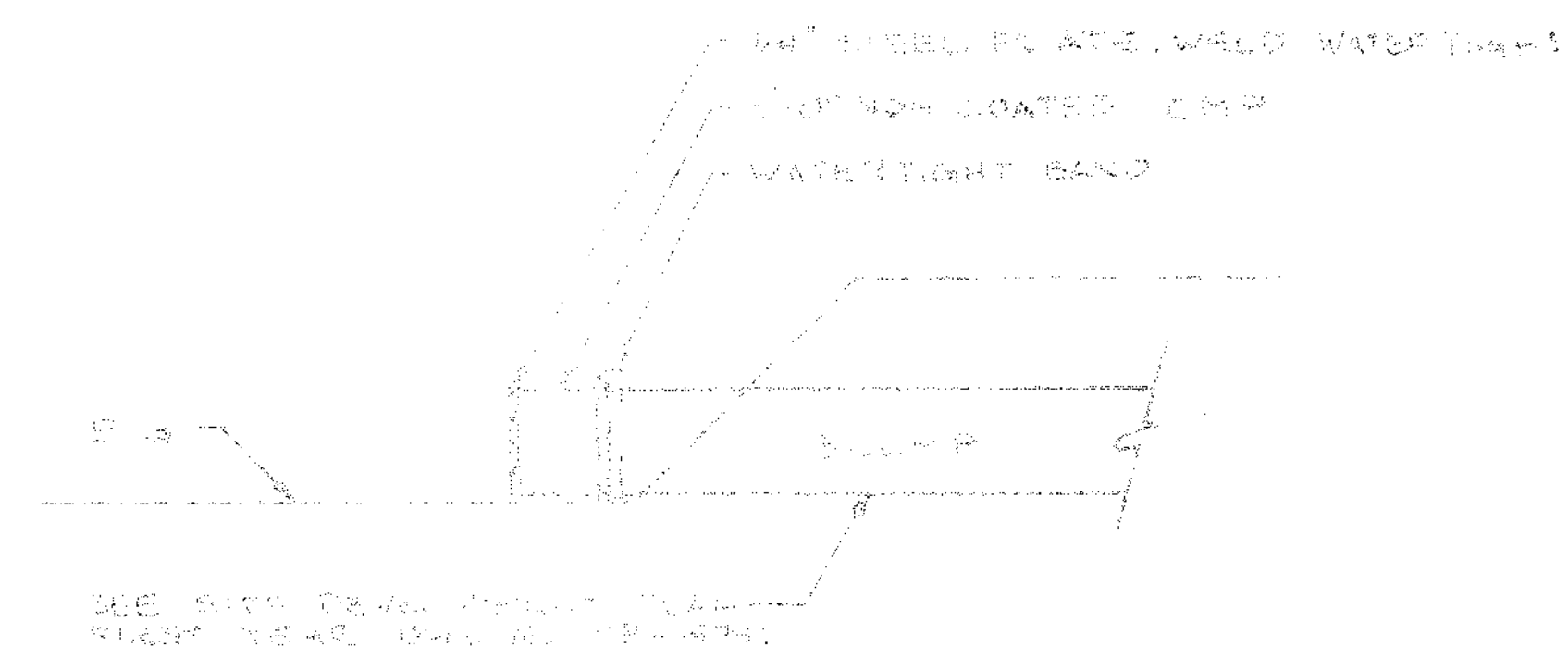
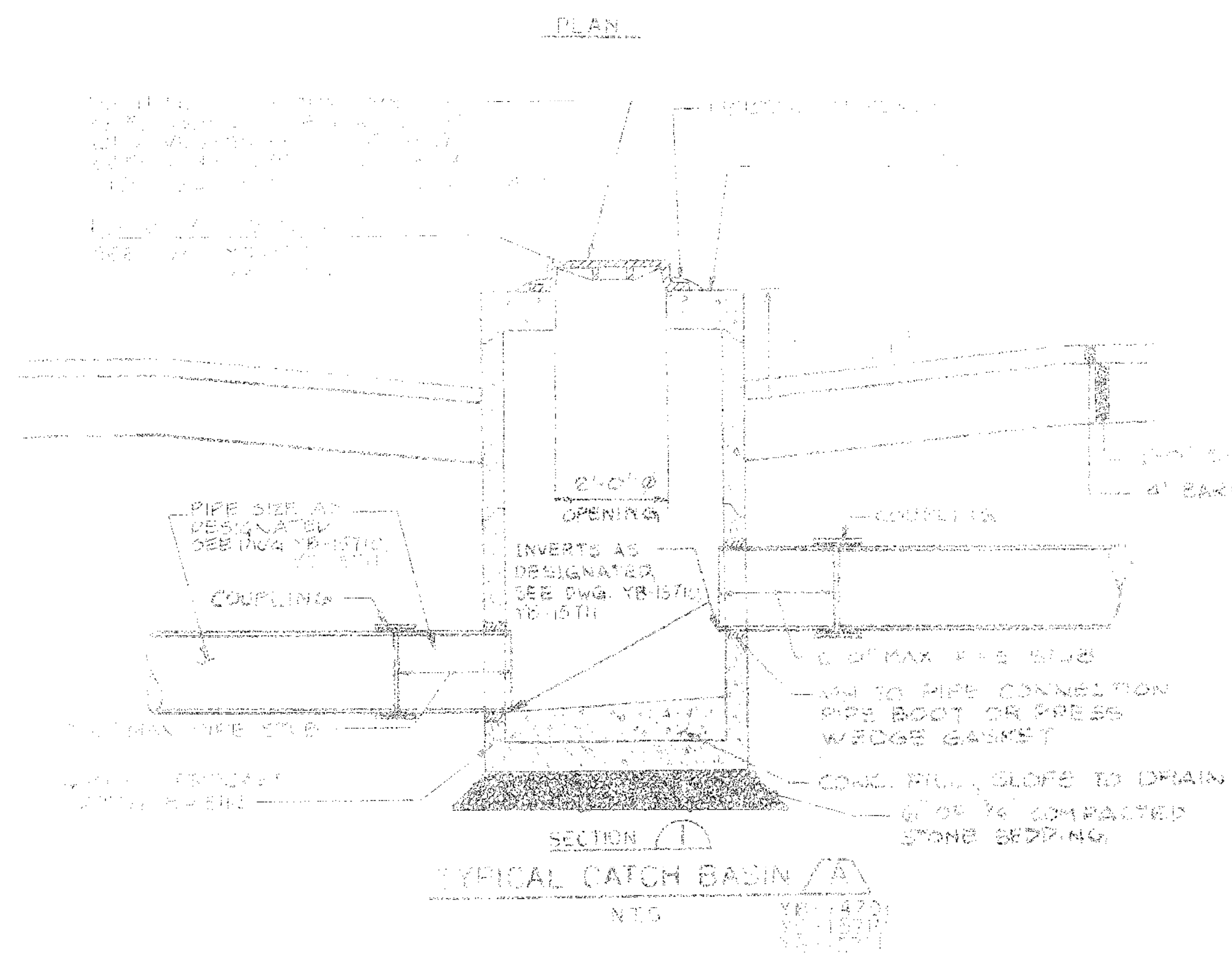
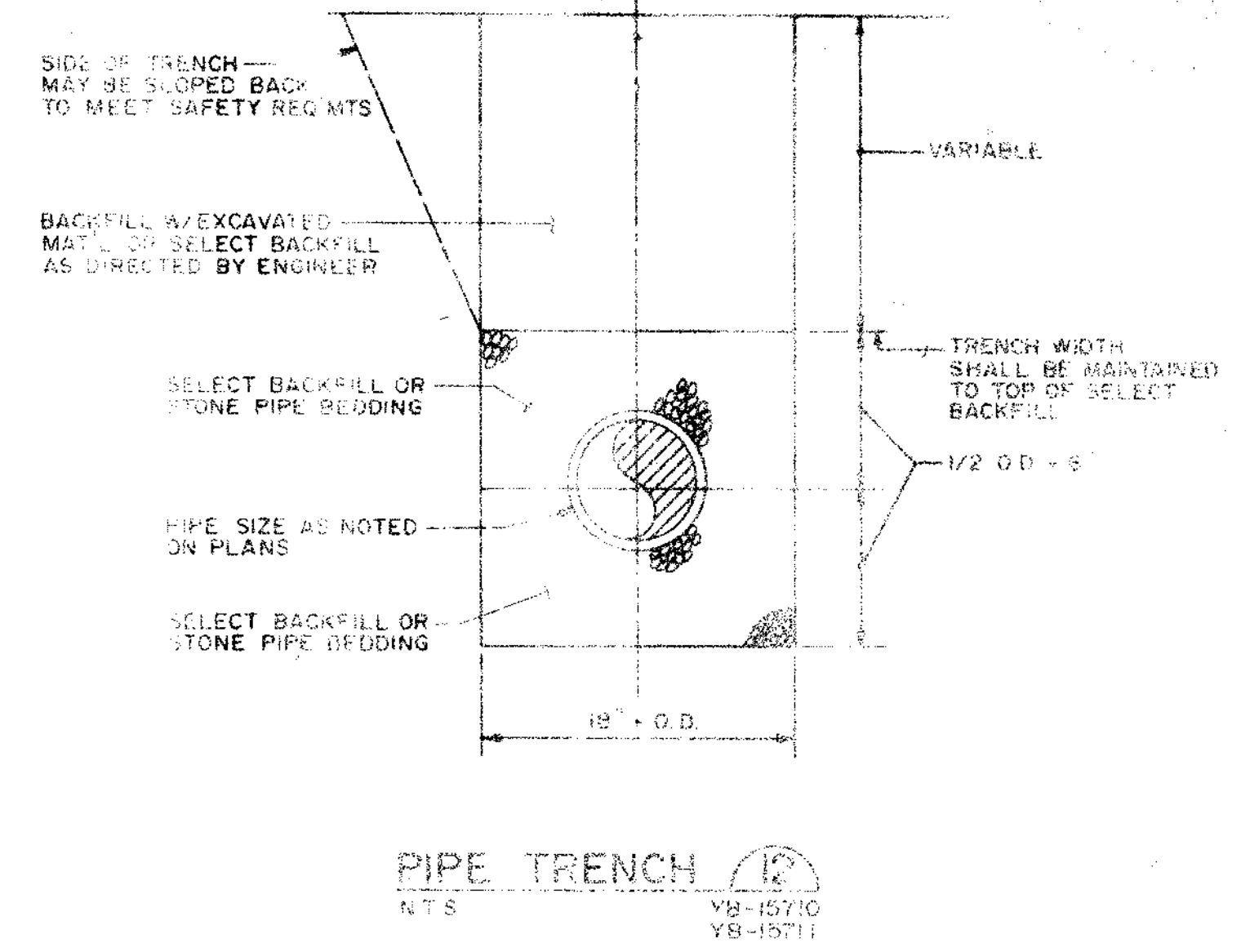
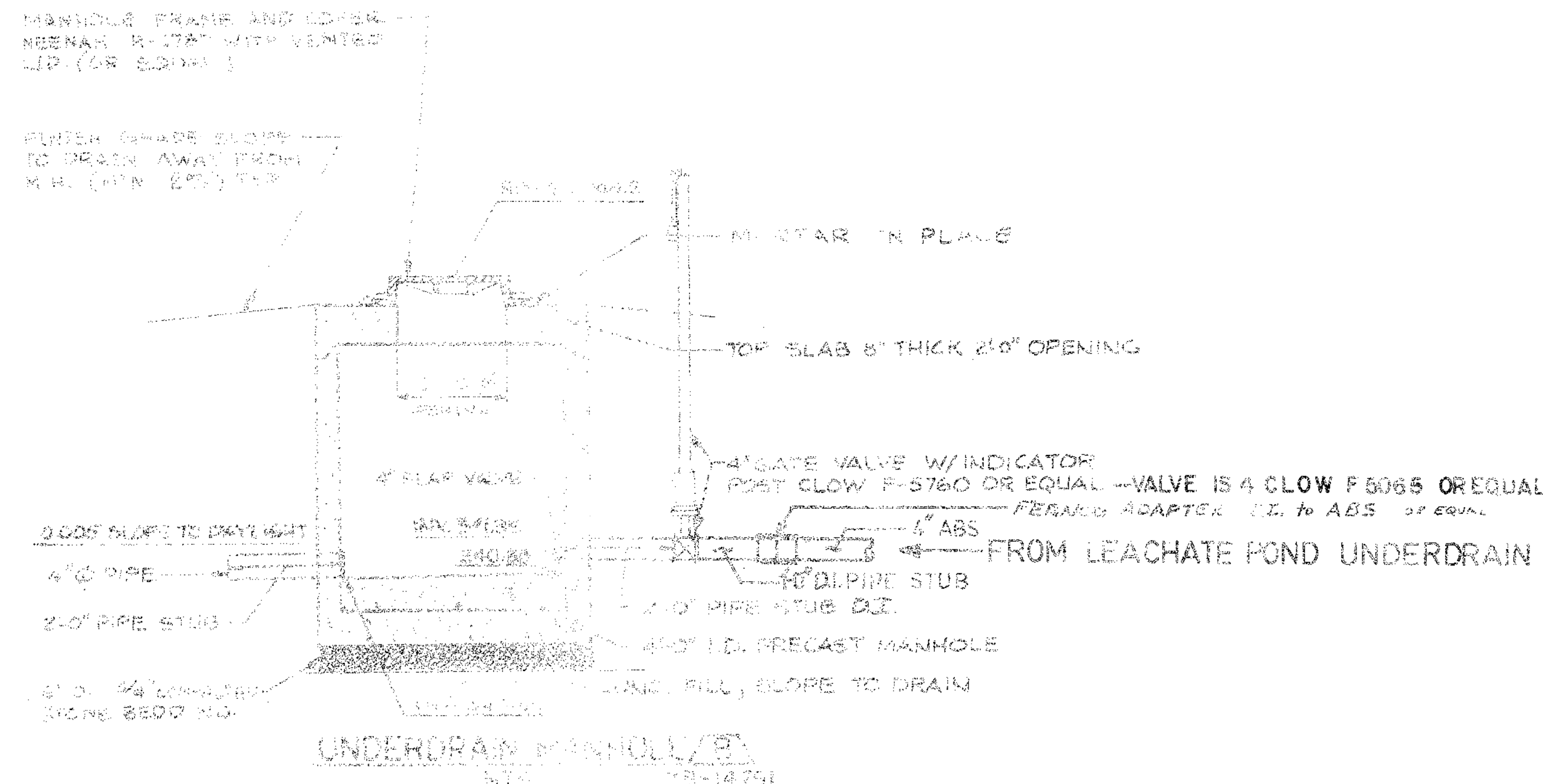
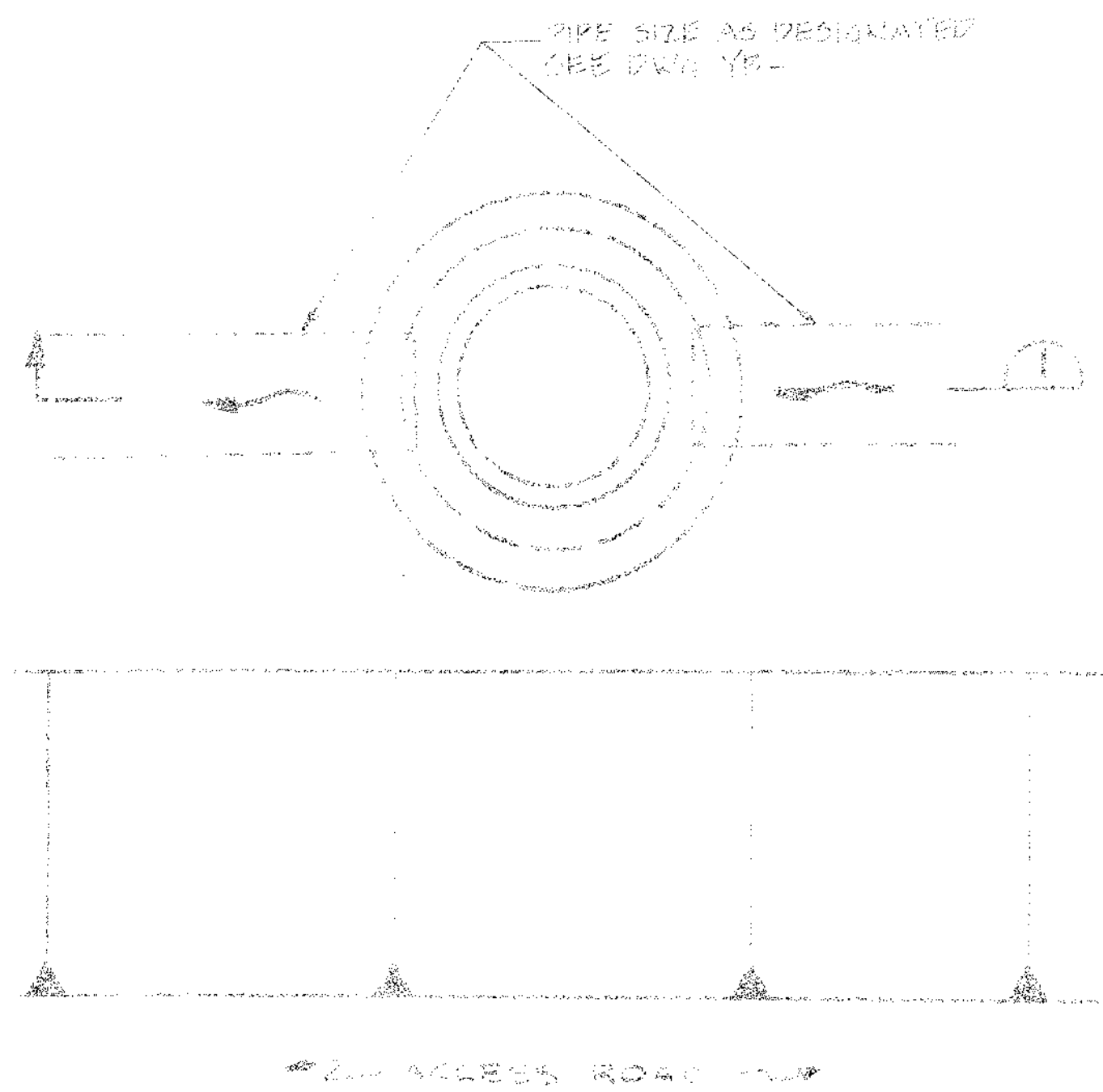
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				1/16/97	RECORD DRAWING				
				2/20/96	ISSUED FOR BID				
				2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE
JOB NO. 95068

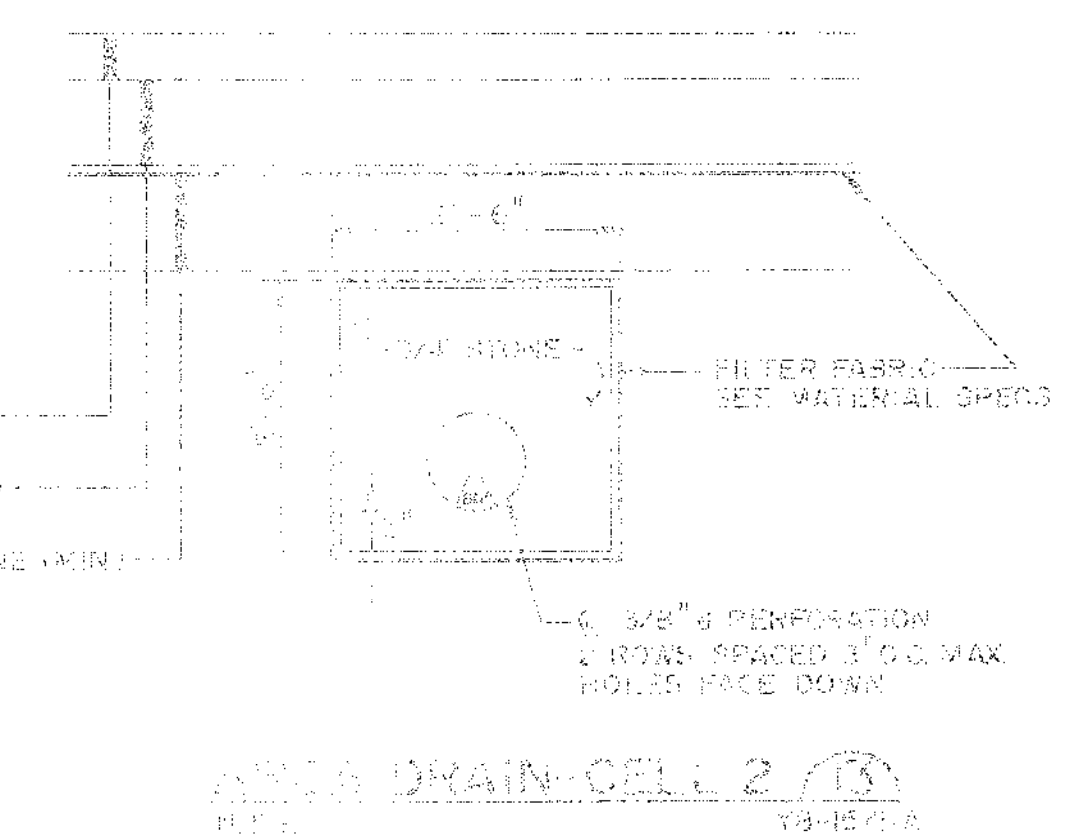
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CHK	<i>SMC</i>
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - MH T.O.	C - Const.
SCALE AS SHOWN	



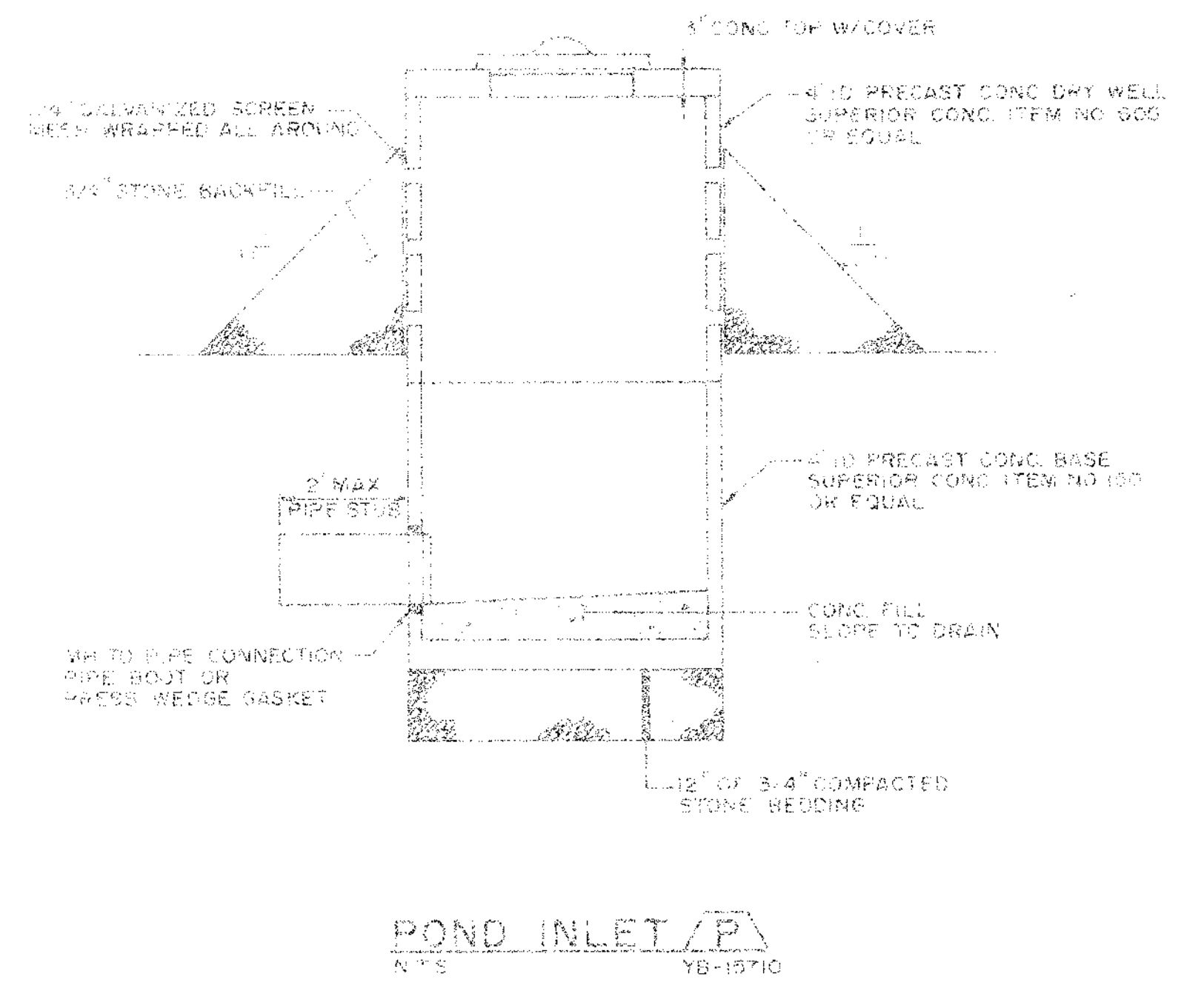
EAST OPERATION
DOLBY II LANDFILL REGRADING SECTIONS & DETAILS
JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703,7082
YB-23593



TEMPERARY CULVERT CAP (N.T.S.) YB-14791



ASFA DRAIN CELL 2 (N.T.S.) YB-15718



POND INLET (N.T.S.) YB-15710

John S. ...

NO.	DESCRIPTION	DATE	BY	CHECKED
1	RECORD DRAWING			
2	AS NOTED IN THE CONTRACT			
3	AS NOTED IN THE CONTRACT			
4	AS NOTED IN THE CONTRACT			
5	AS NOTED IN THE CONTRACT			
6	AS NOTED IN THE CONTRACT			
7	AS NOTED IN THE CONTRACT			
8	AS NOTED IN THE CONTRACT			
9	AS NOTED IN THE CONTRACT			
10	AS NOTED IN THE CONTRACT			

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

EC JORDAN CO.
CONSULTING ENGINEERS

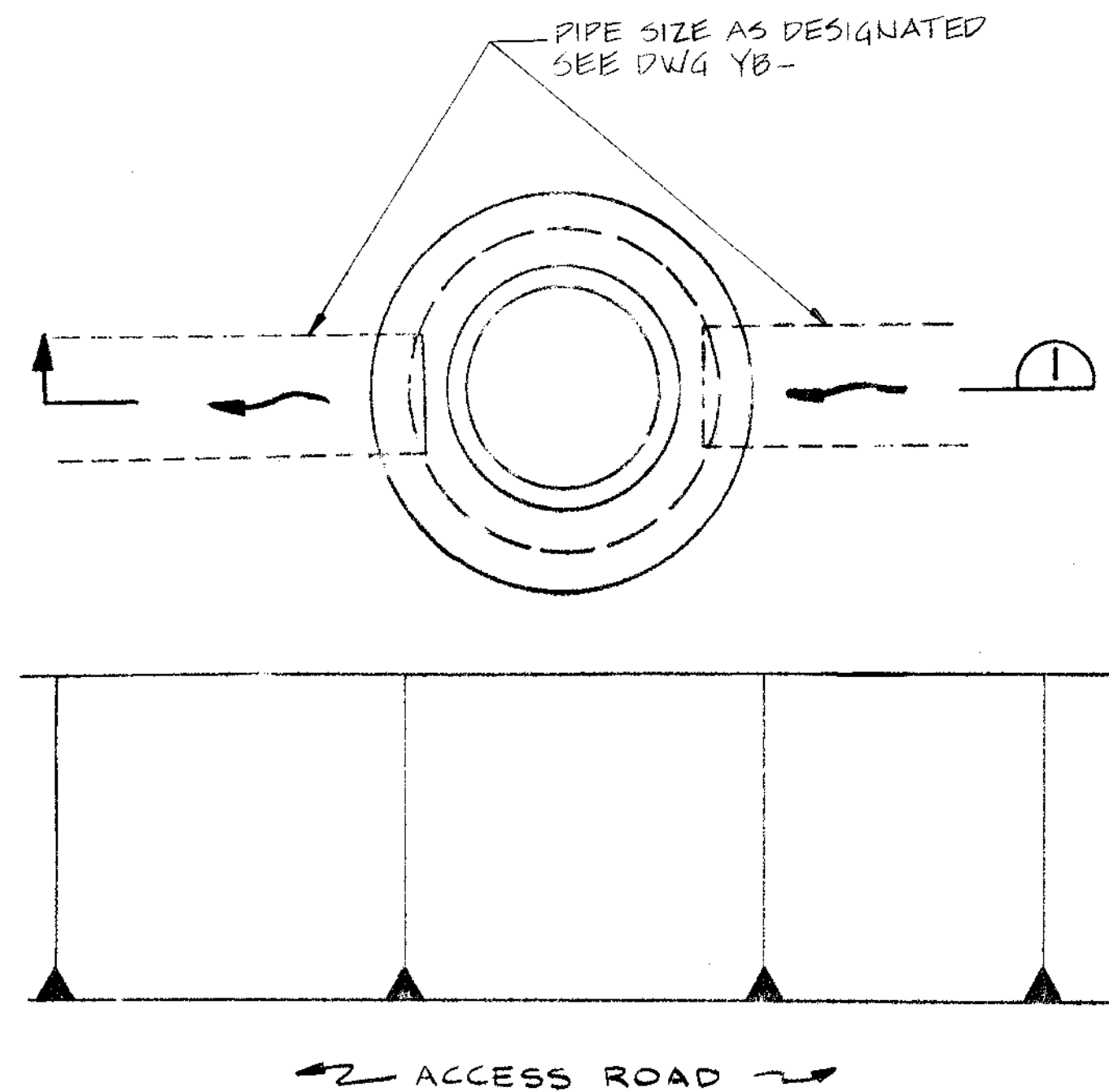
PROJECT NO. AIR7-02 DWG. NO. _____

Great Northern Paper
a company of
Great Northern, Nelsson Corporation

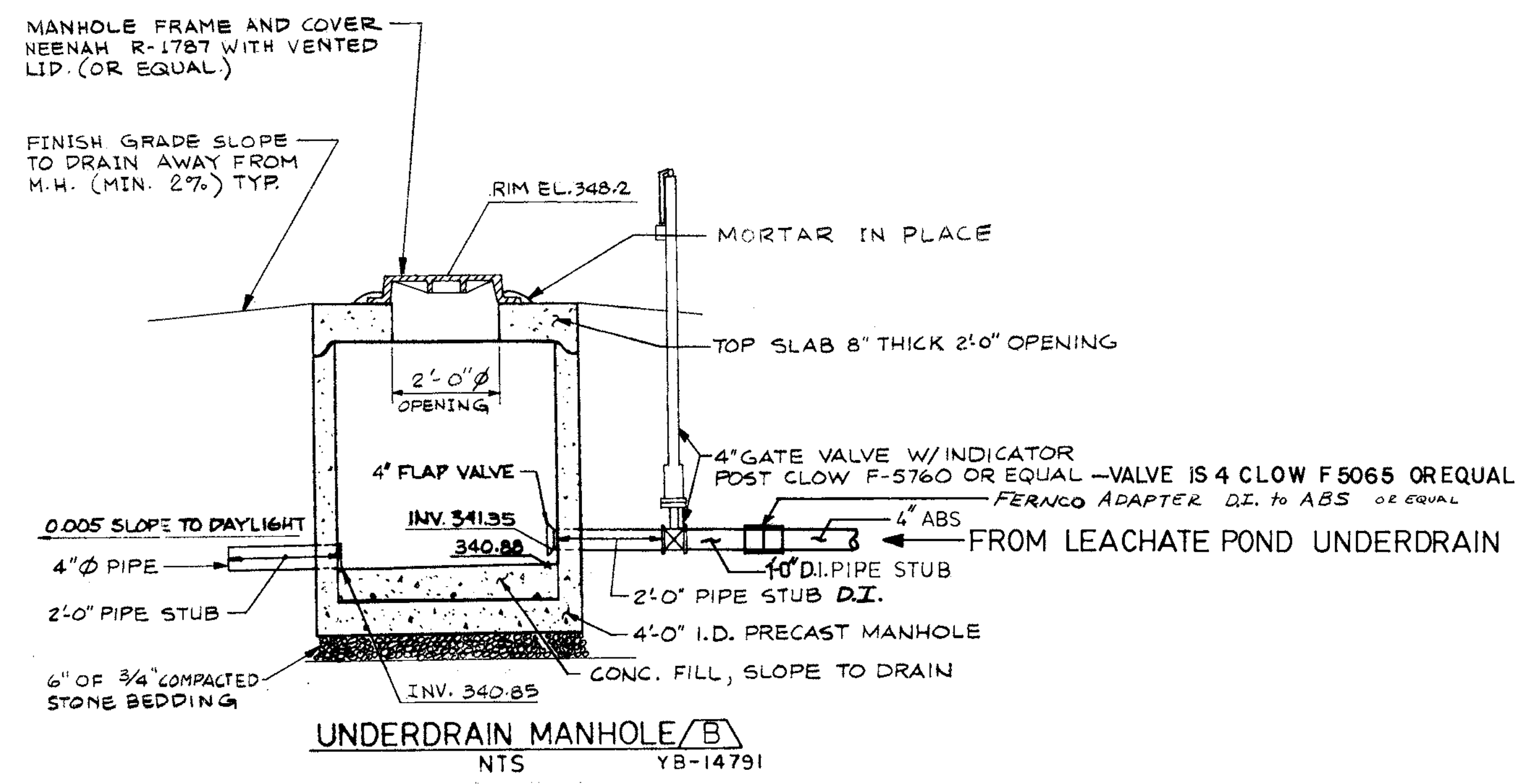
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
D'LEY 3 LANDFILL
LANDFILL AREA
DRAINAGE DETAILS

2888

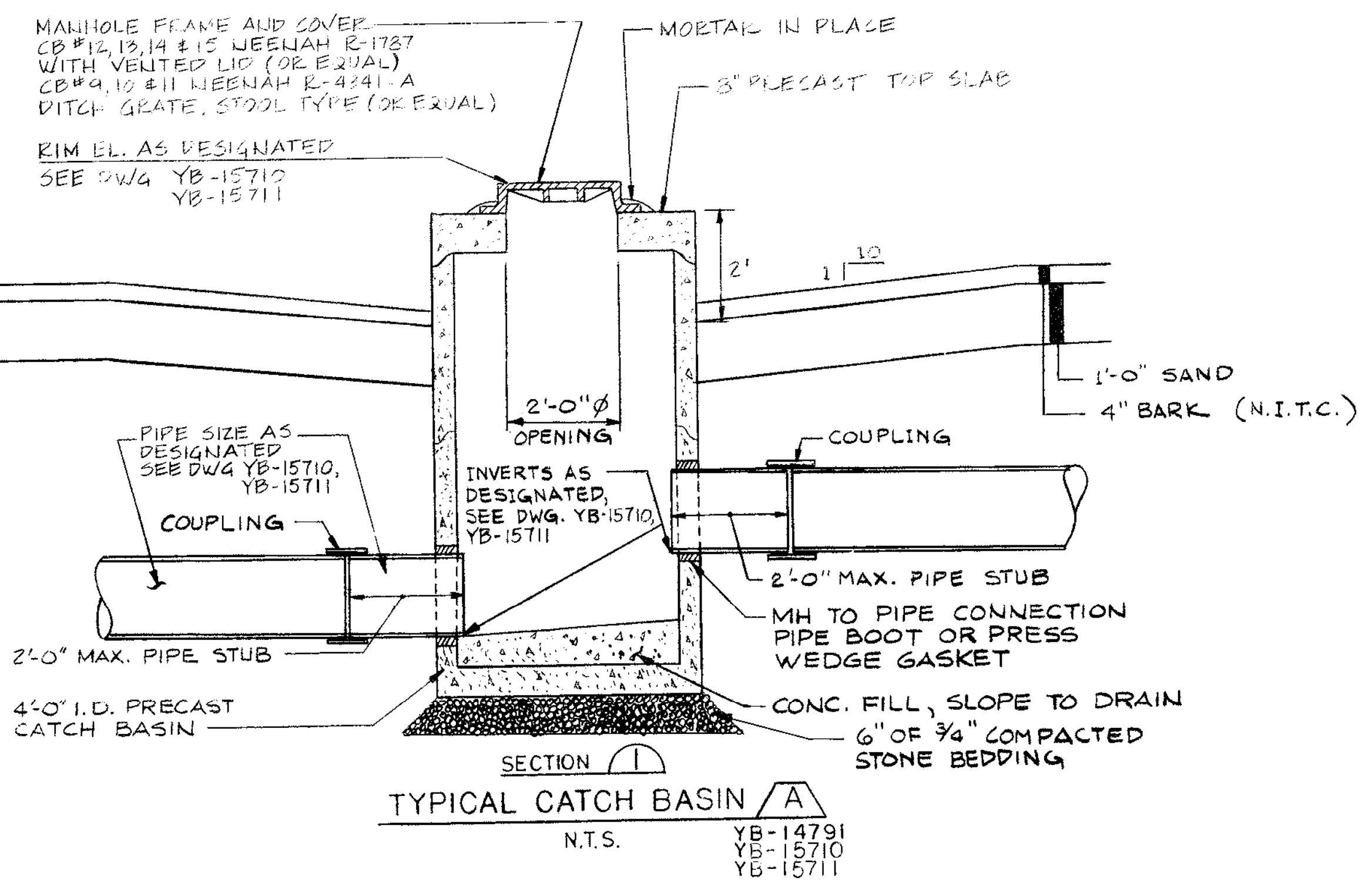
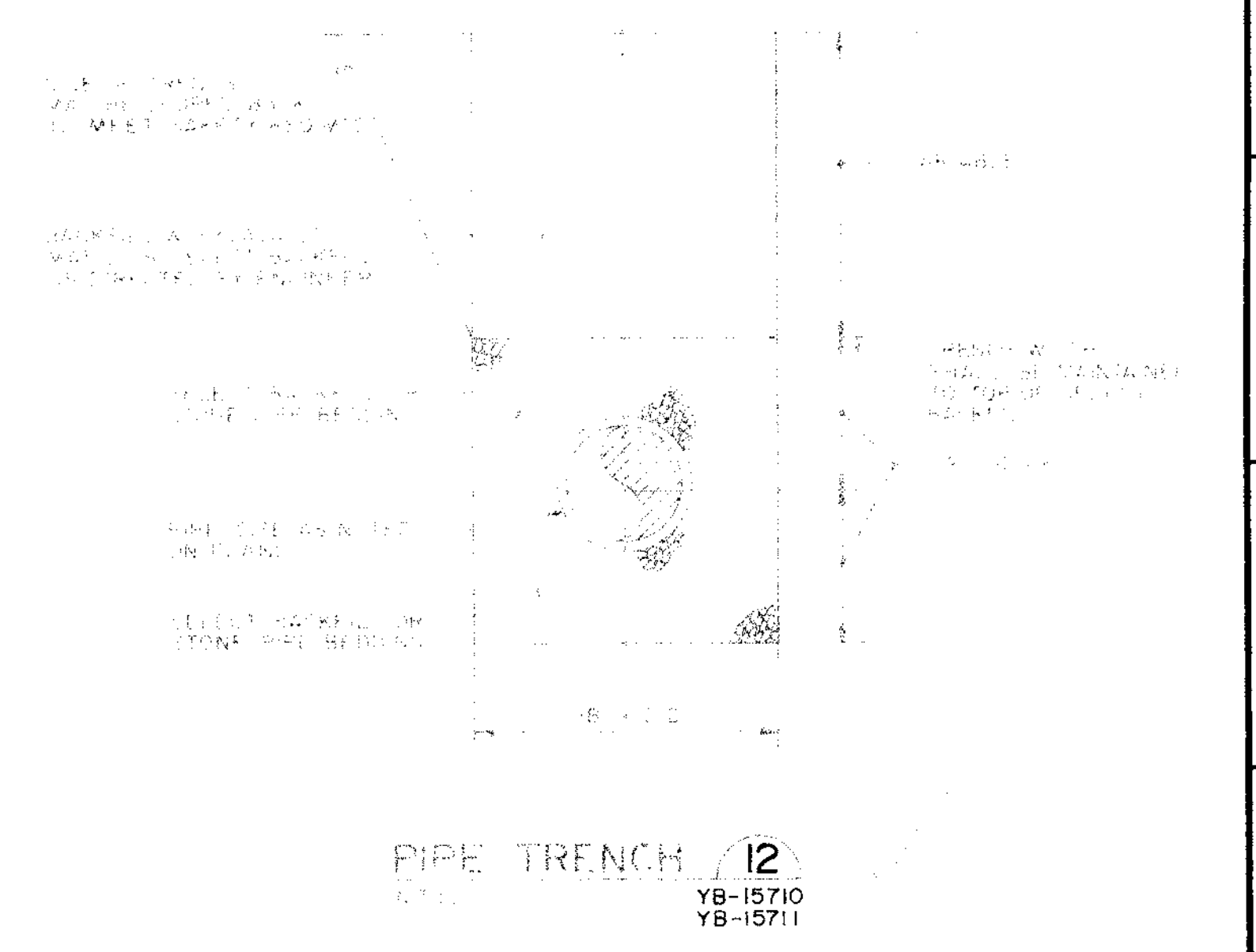
YB-14793-B



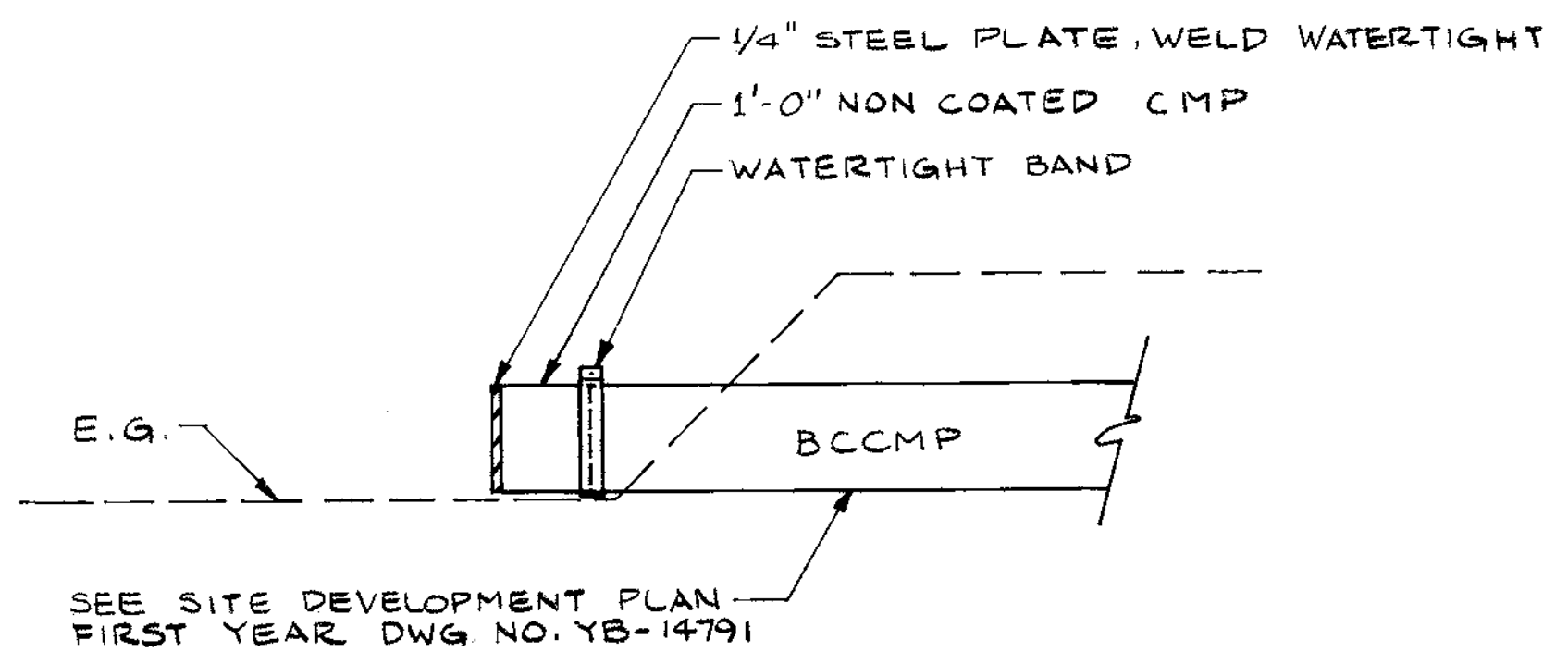
PLAN



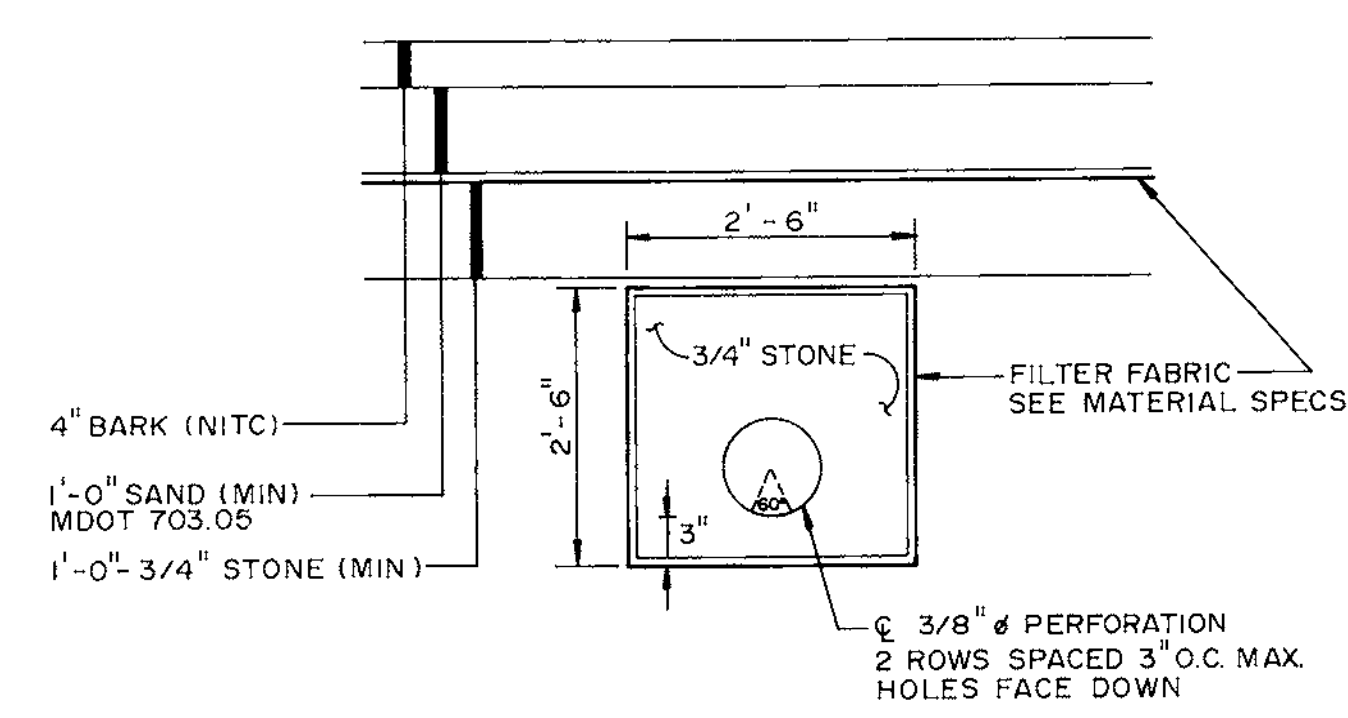
UNDERDRAIN MANHOLE / B
NTS YB-14791



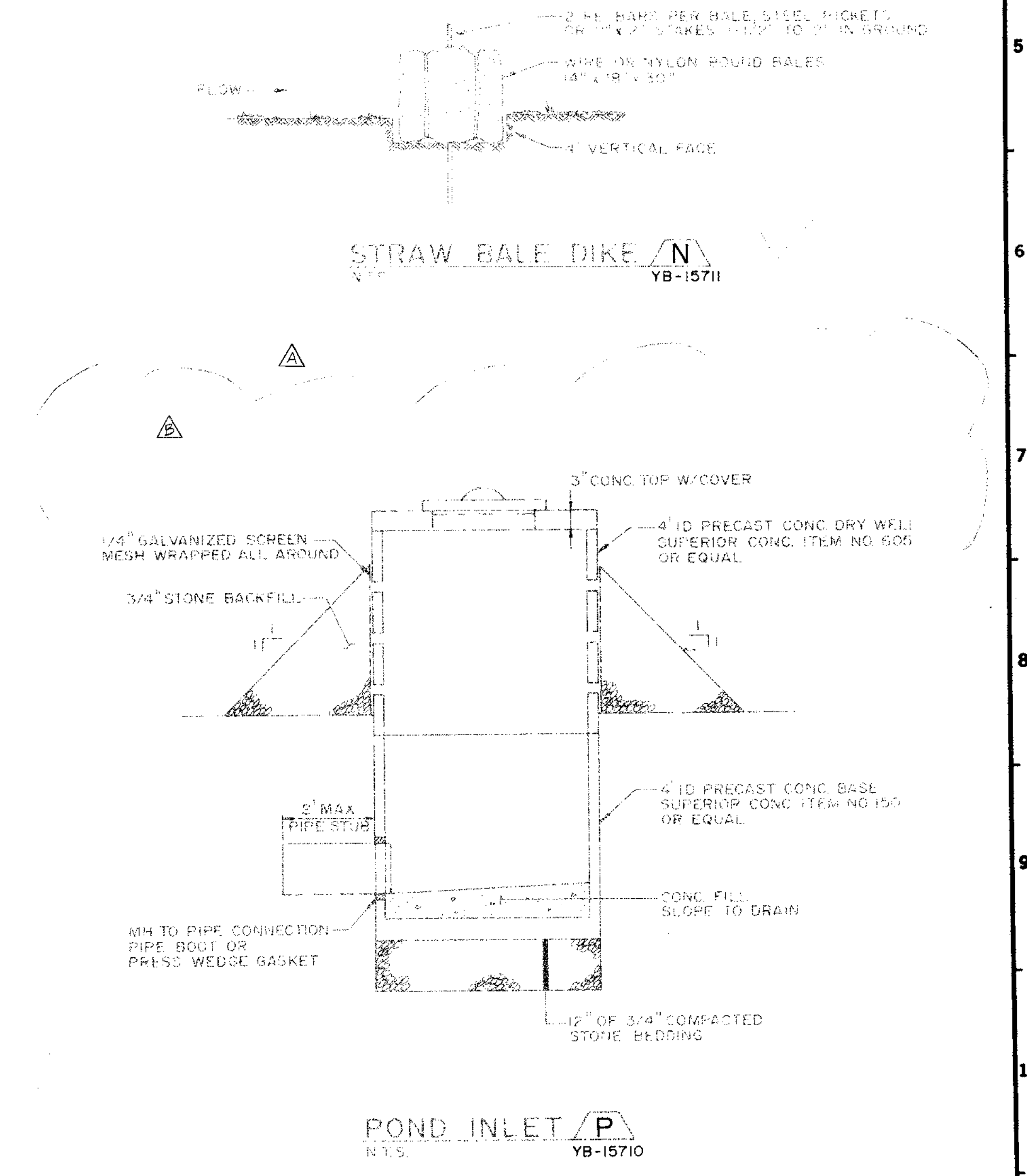
TYPICAL CATCH BASIN / A
NTS. YB-14791
YB-15710
YB-15711



TEMPORARY CULVERT CAP / C
NTS. YB-14791



AREA DRAIN-CELL 2 / 13
NTS. YB-15711A



DRAWING NO.		REFERENCE DRAWING TITLE		CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.	SEVEE & MAHER ENGINEERS, PA WESTBROOK, MAINE E.C. JORDAN CO. CONSULTING ENGINEERS JOB NO. 4187-02 DWG. NO.	DIM MB/RDC 12/1/83 CKD MAHER 12/16/83 CKD RST 14/1/83 CORR WJAN 12-17-83 APPVD JTL 12-19-83 ISSUE CODE P-PRELIM B-BIDS M-MTLT.O. C-CONST SCALE AS NOTED	Great Northern Paper a company of Great Northern Nekoosa Corporation	CENTRAL ENGINEERING DEPARTMENT EAST MILLINOCKET MILL DOLBY 3 LANDFILL LANDFILL AREA DRAINAGE DETAILS JOB NO. 2668 ENG. REG. NO. 2-8313 FILE NO. 2-092-7082 YB-14793-C
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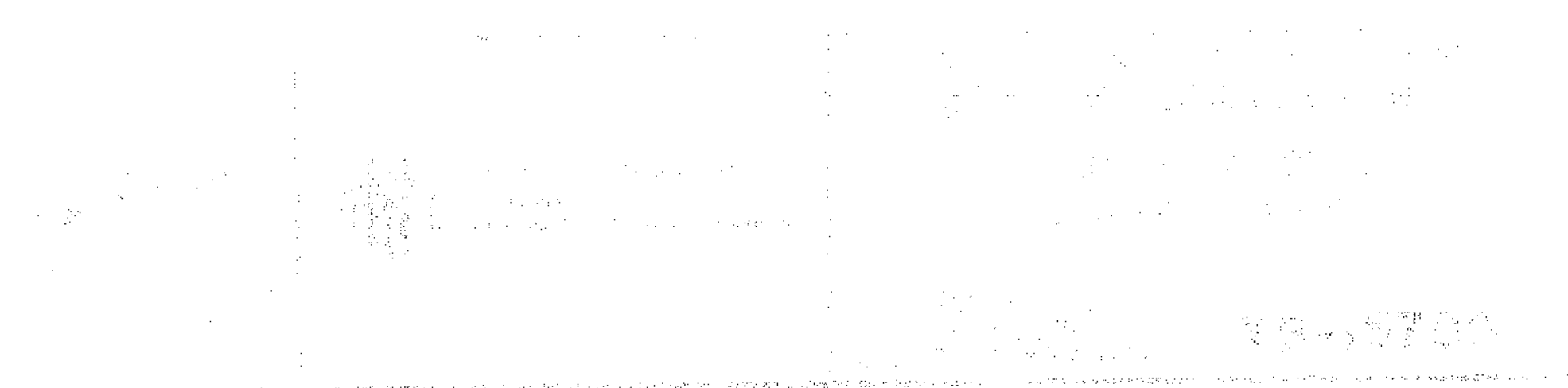
GREAT NORTHERN PAPER CO. MILLINOCKET, MAINE

DOLBY 3 LANDFILL CELL 2 CONSTRUCTION

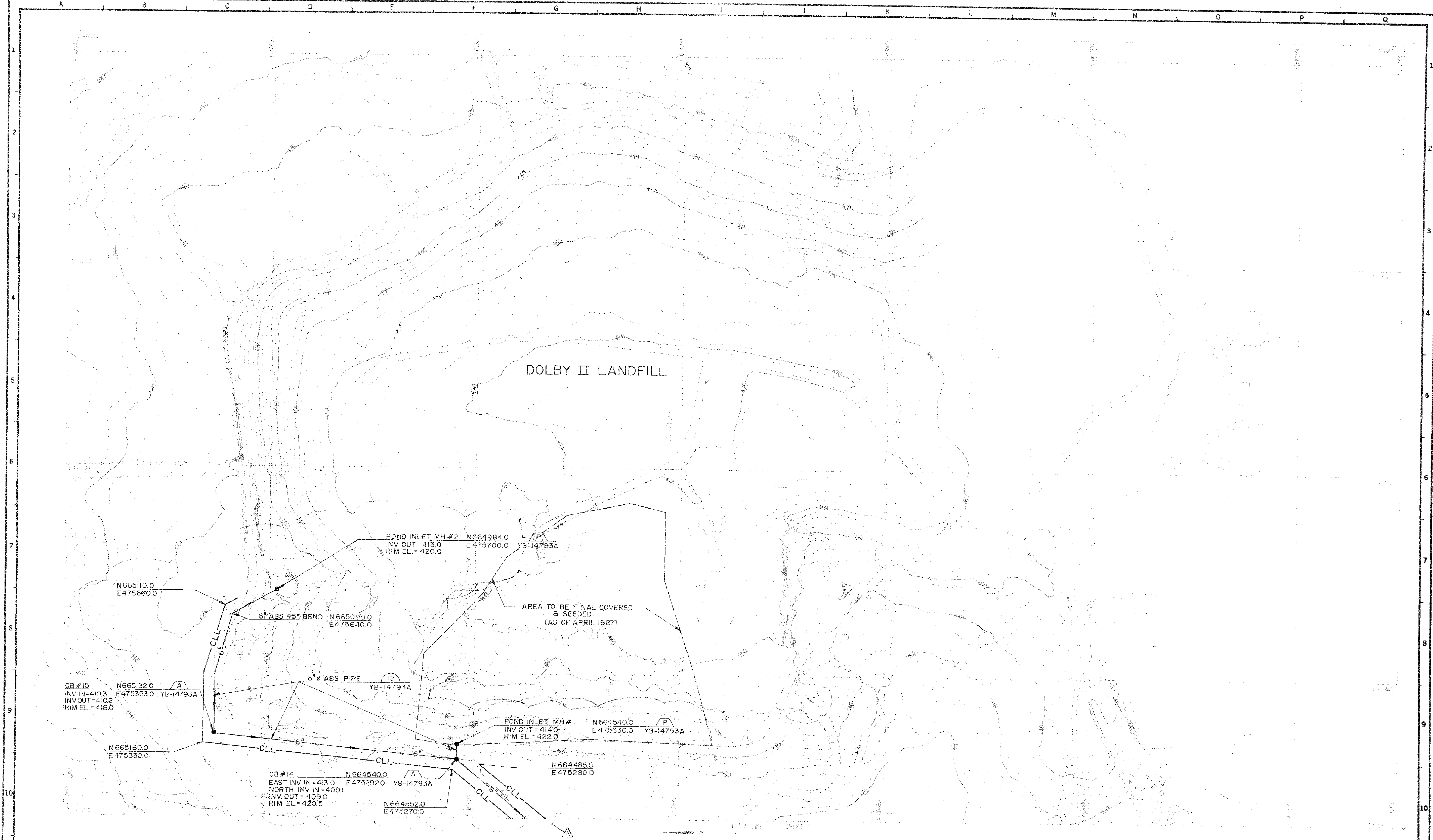
CELL	DESCRIPTION	DATE	BY
CELL 1	STANDARD CONSTRUCTION OF LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 2	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 3	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 4	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 5	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 6	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 7	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 8	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 9	LANDFILL PLOTS	12/15/87	SEV & MAH
CELL 10	LANDFILL PLOTS	12/15/87	SEV & MAH

SEV & MAHER ENGINEERS, PA
WESTBROOK, MAINE

1987



19-5700



John S. Seavey
 1/16/87

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPRD	ISS. NO.
		C	A	1/16/87	NOT IN THIS CONTRACT				

SEVEE & MAHER ENGINEERS, PA
 WESTBROOK, MAINE

DRN	VAT	6-42
CKD	ANC	6-487
CKD	ECG	6-387
CKD	WAN	6-352
APPROD		
ISSUE CODE		
P-PRELIM	B-BIDS	
M-MTLY	C-CONST	
SCALE 1" = 100'		



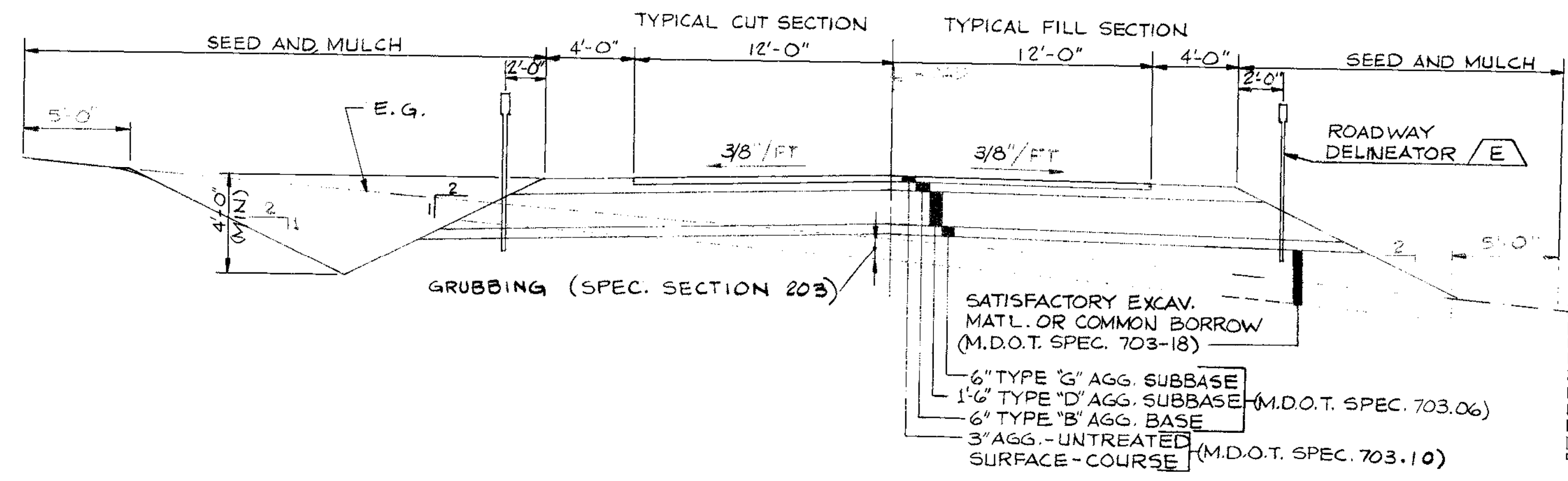
Great Northern Paper
 a company of
 Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
 DOLBY 3 LANDFILL
 CELL 2
 SITE LOCATION PLAN

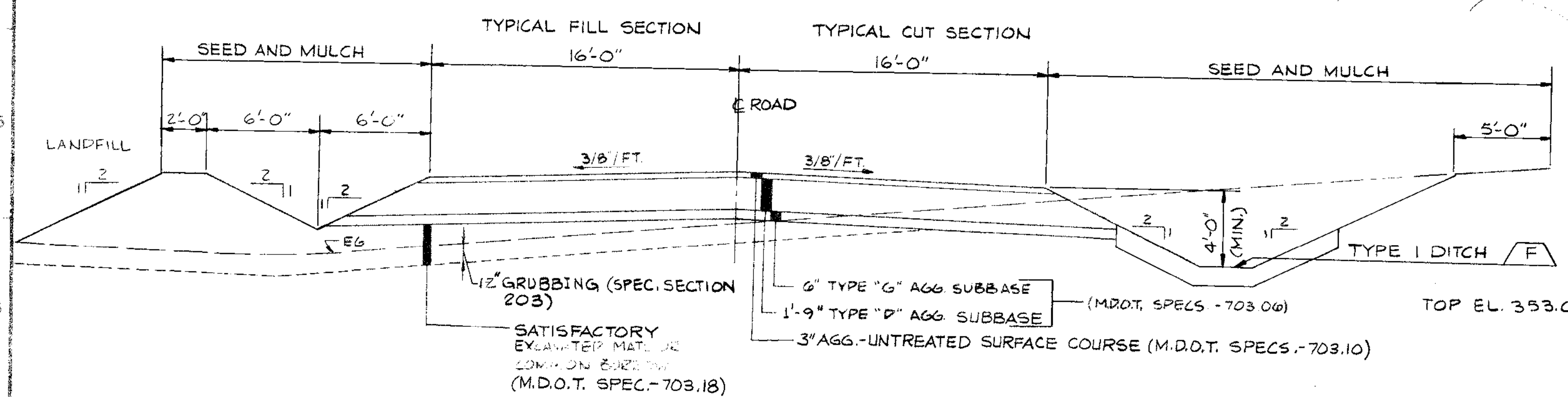
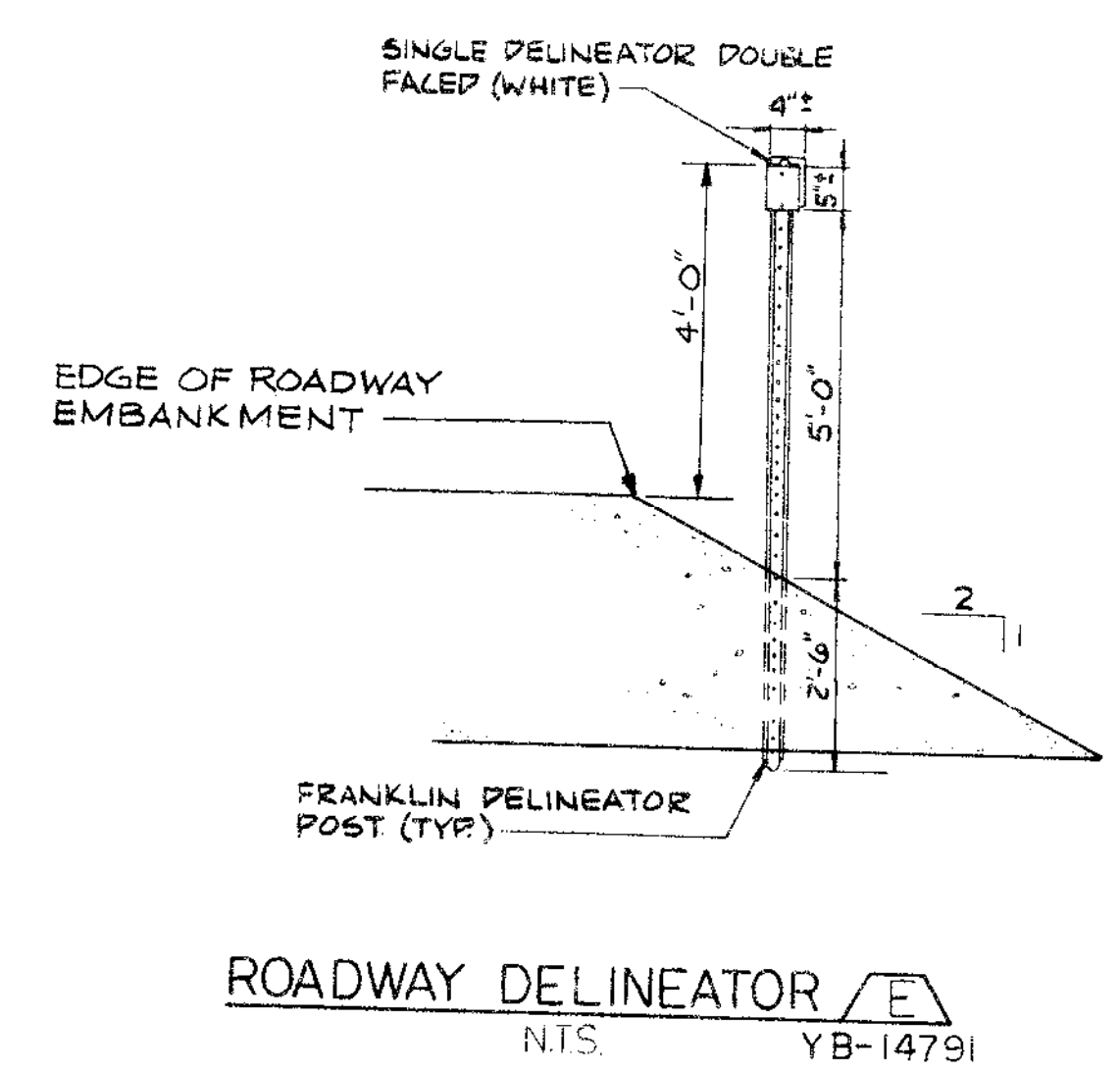
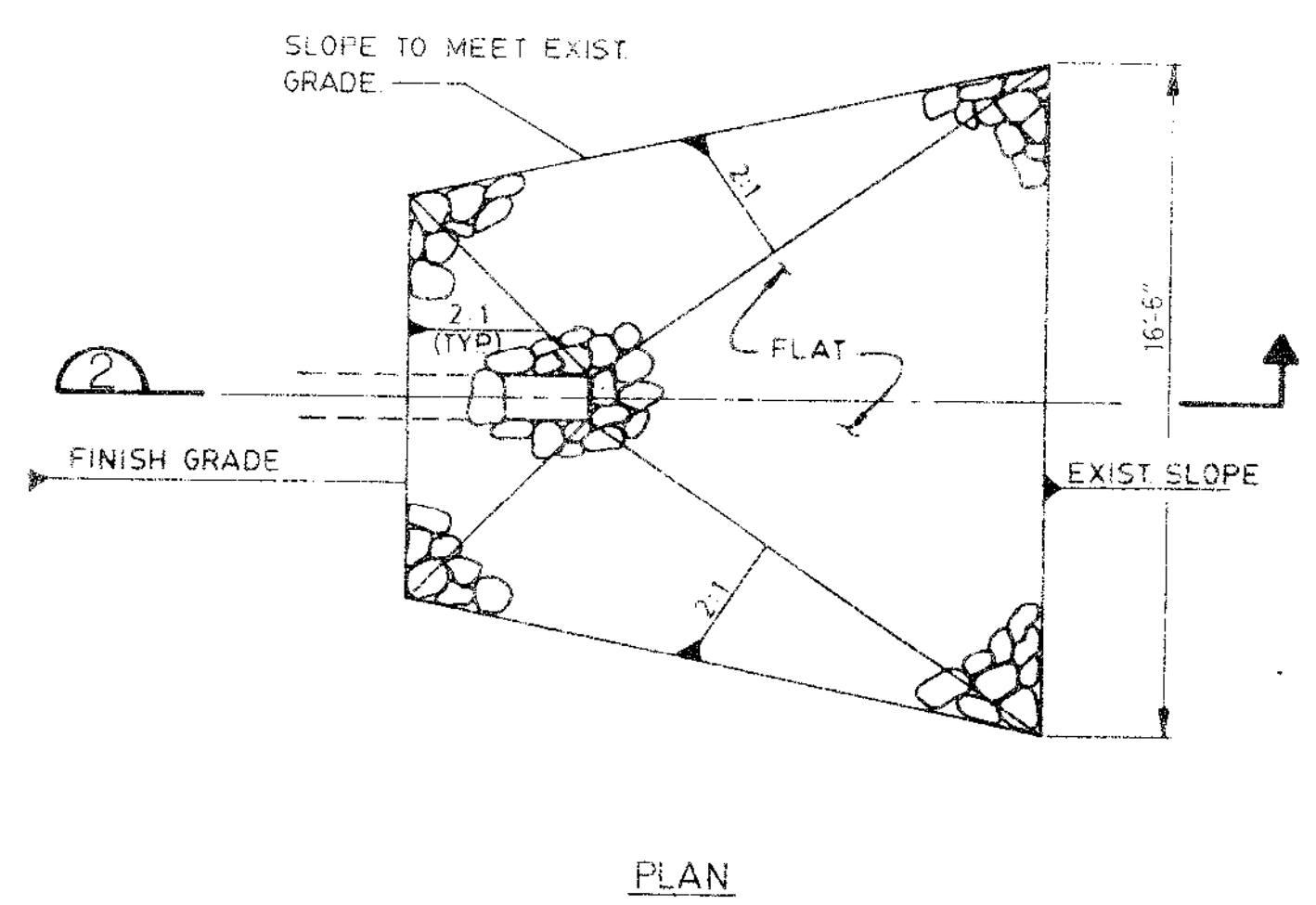
JOB NO. 94473
 ENG. REG. NO. 2-8516
 FILE NO. 2-092-4703, 7082

YB-15710 A
 SHEET 2 OF 2

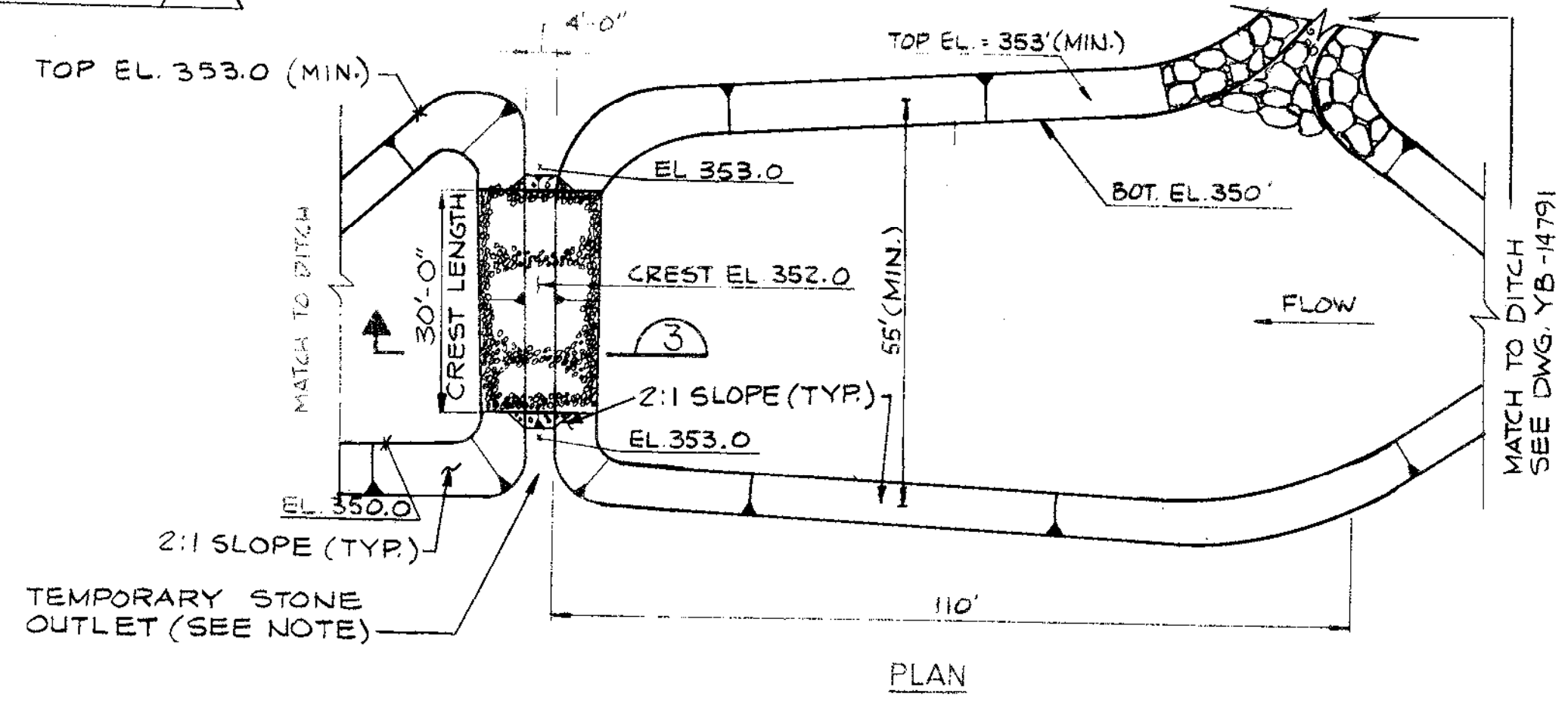
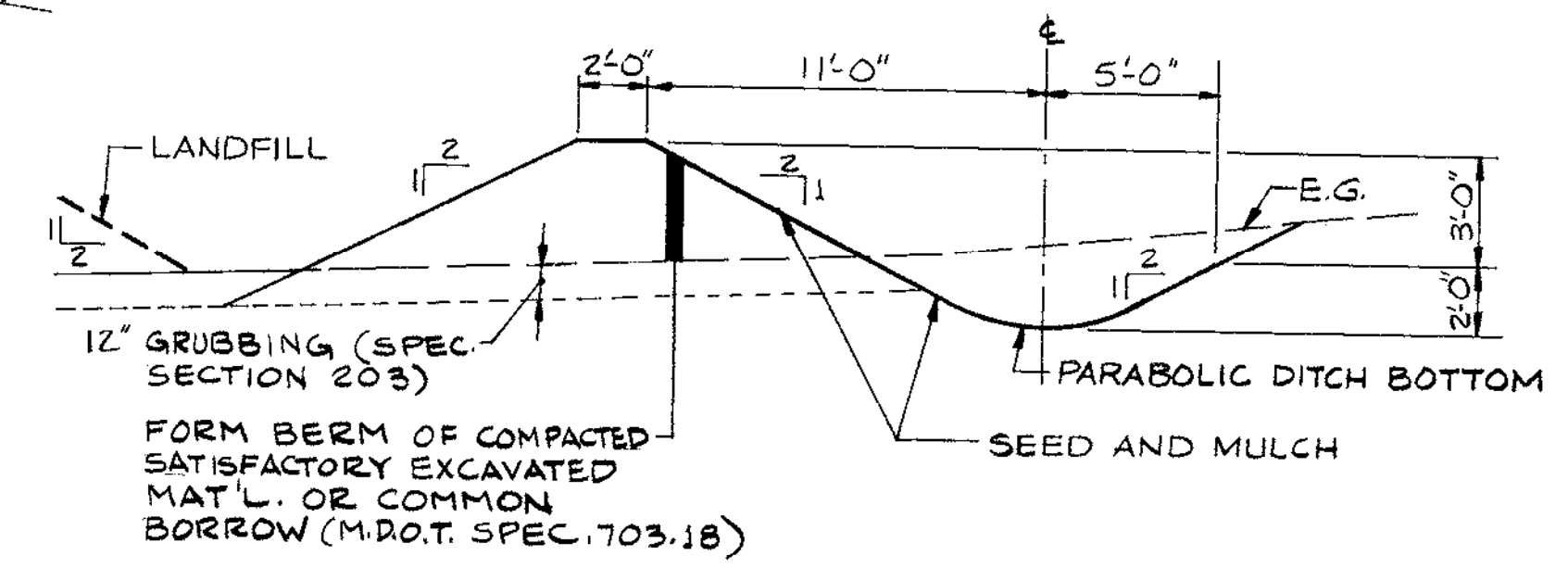
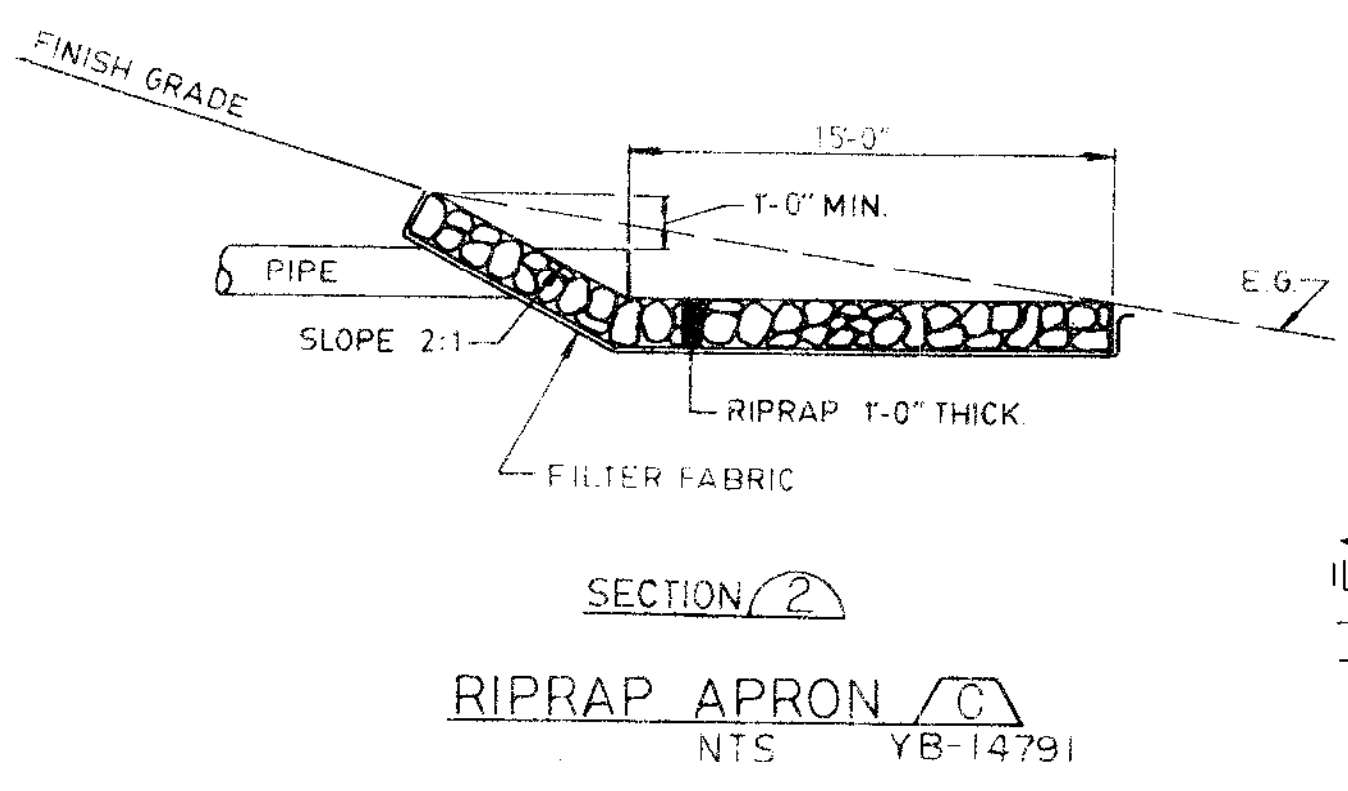
JOB NO. 8717



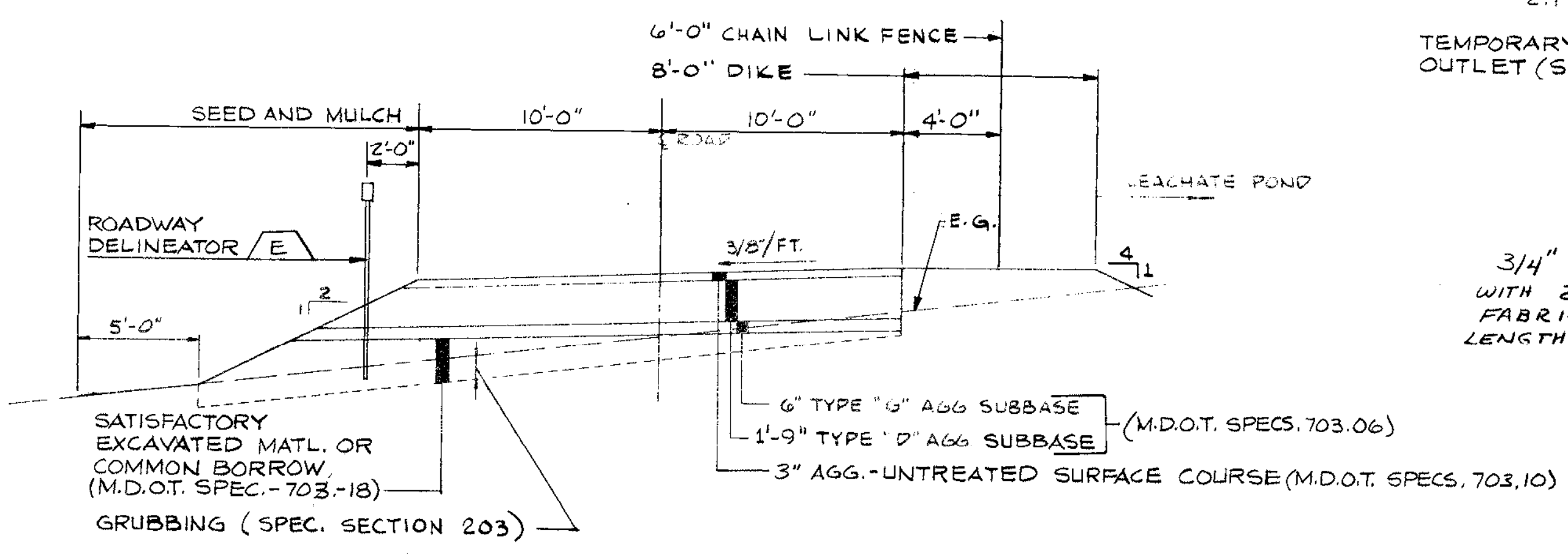
TYPICAL SECTION
MAIN ACCESS ROAD
NTS



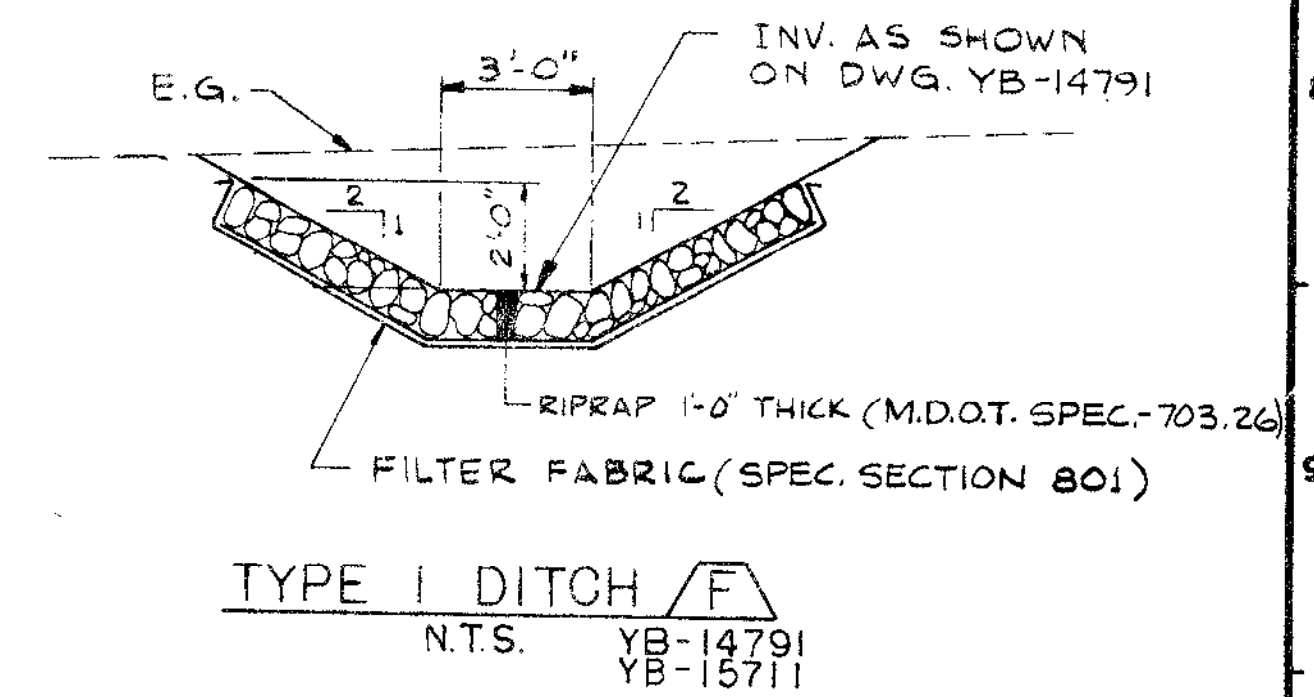
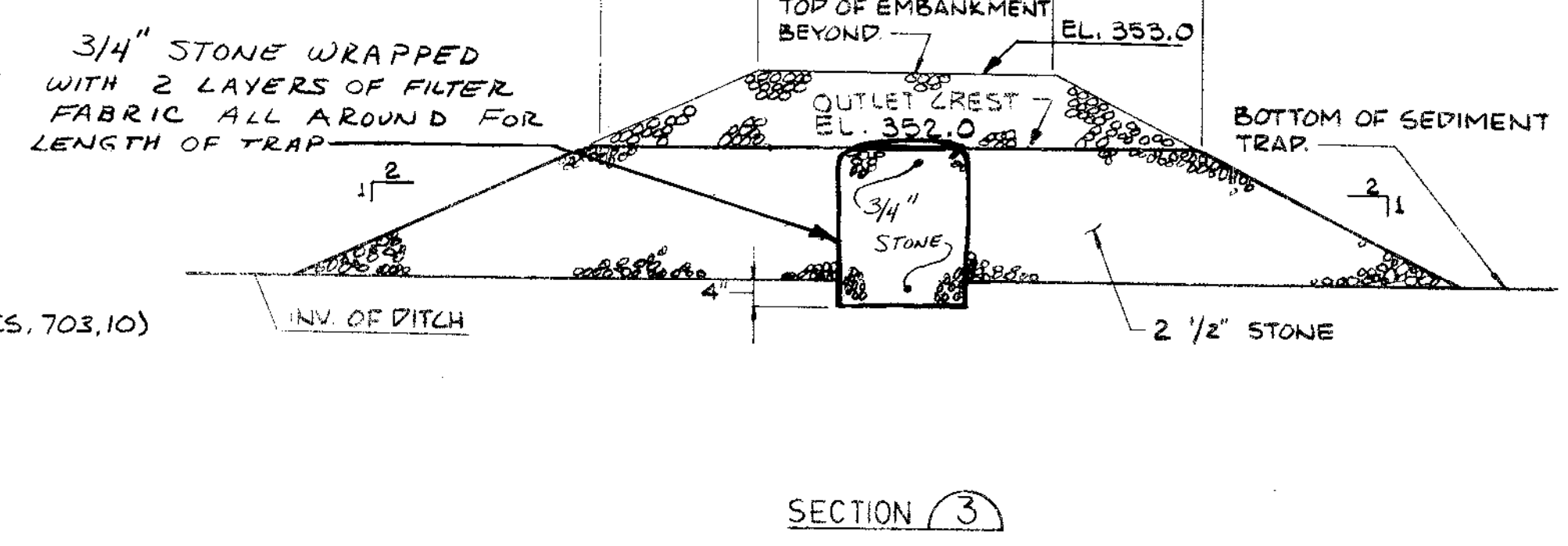
TYPICAL SECTION
LANDFILL ACCESS ROAD
NTS



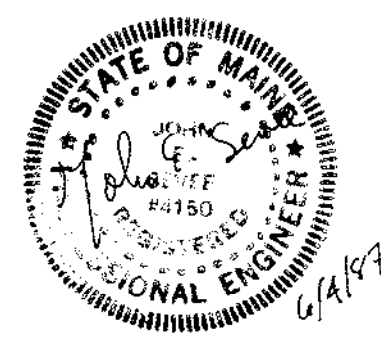
STONE OUTLET SEDIMENT TRAP / D
NTS YB-14791



TYPICAL SECTION
LEACHATE POND ACCESS ROAD
NTS



NOTE: STONE OUTLET TO BECOME PERMANENT FEATURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIPRAP. AREA TO BE SEED AND MULCHED WHEN CONSTRUCTION COMPLETE.



NO.	DATE	REVISION	BY	CHKD.	APP'D.	JOB NO.
C	5/24/87	GENERAL REVISION FOR JOB #94473 CELL 2	WJN	ECJ	WJN	4187-02
V	1/15/81	NOTES & 3/4" STONE AND FILTER FABRIC	WJN	WJN	WJN	4187-02

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO. YB-14791

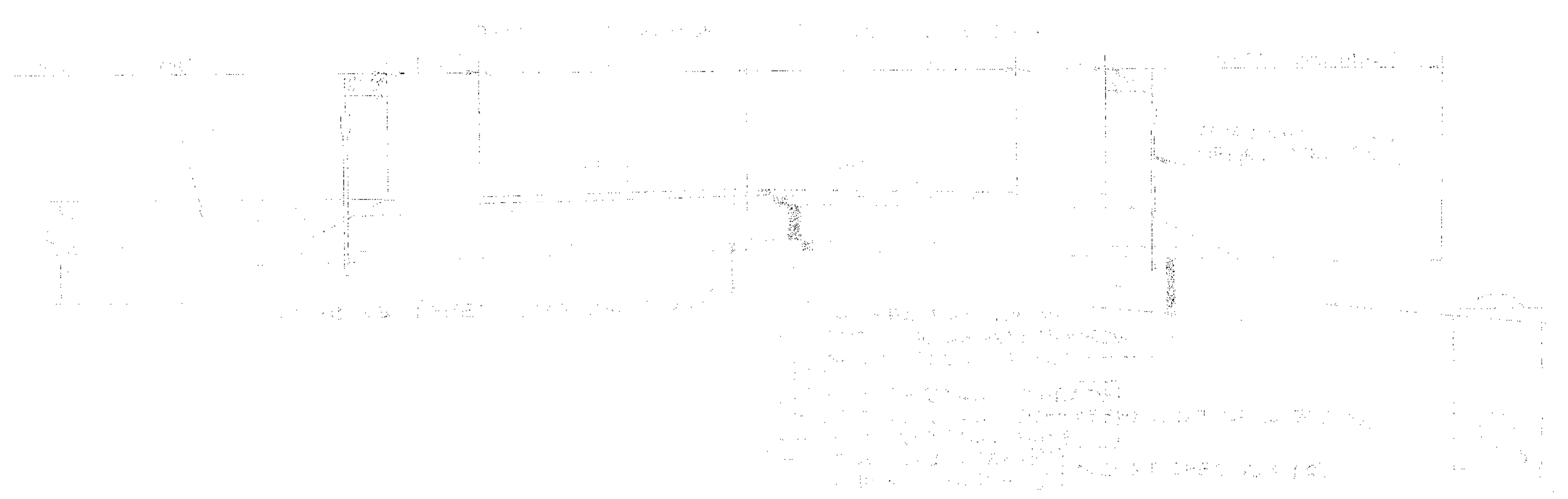
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

ISSUE CODE
P-PRELIM B-BIOS
M-MULTI Q-C-CONST
SCALE NOTED

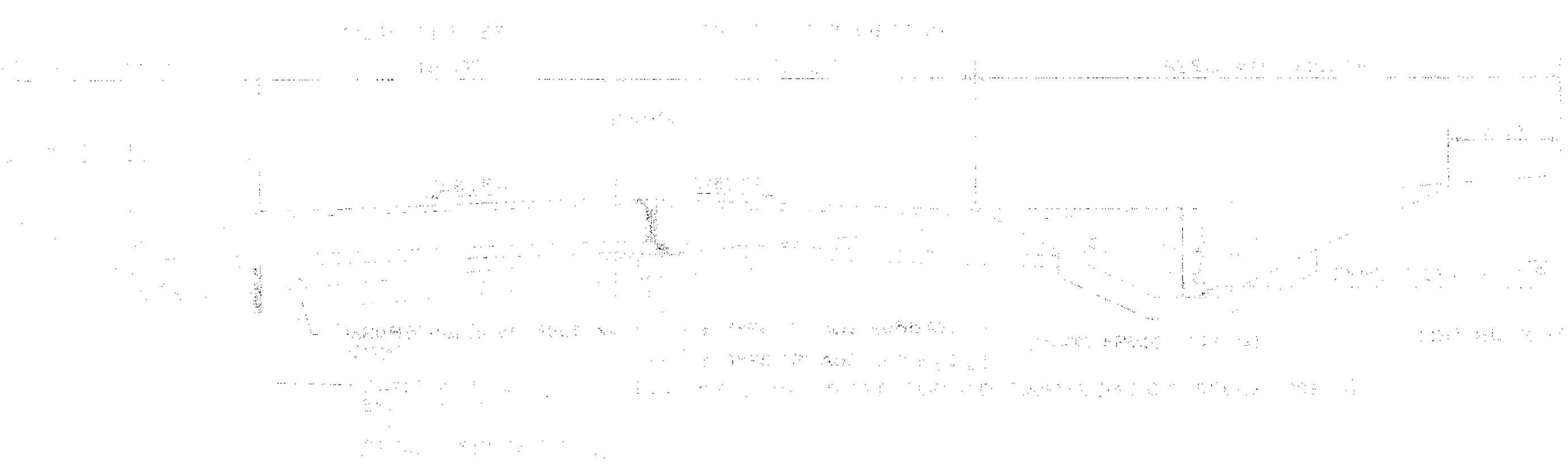
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
ACCESS ROAD
TYPICAL SECTIONS & DETAILS

JOB NO. 2668
ENG. REG. NO. 2-8313
FILE NO. 2-092-7082

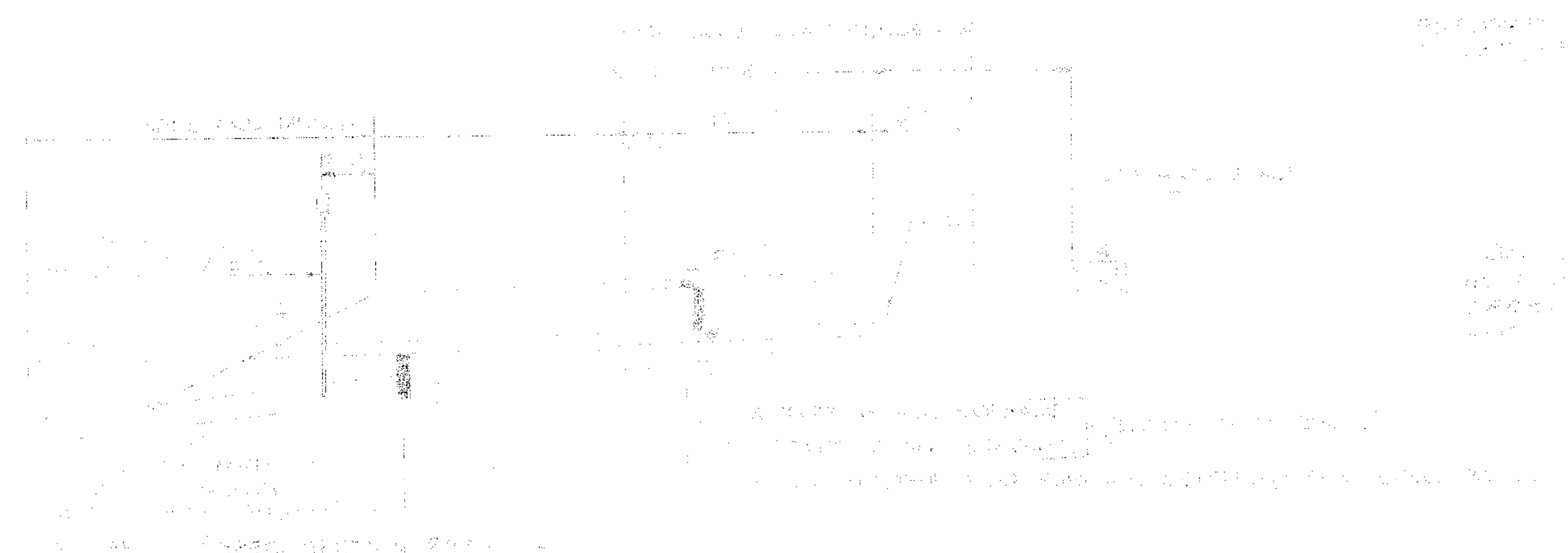
YB-14794-B



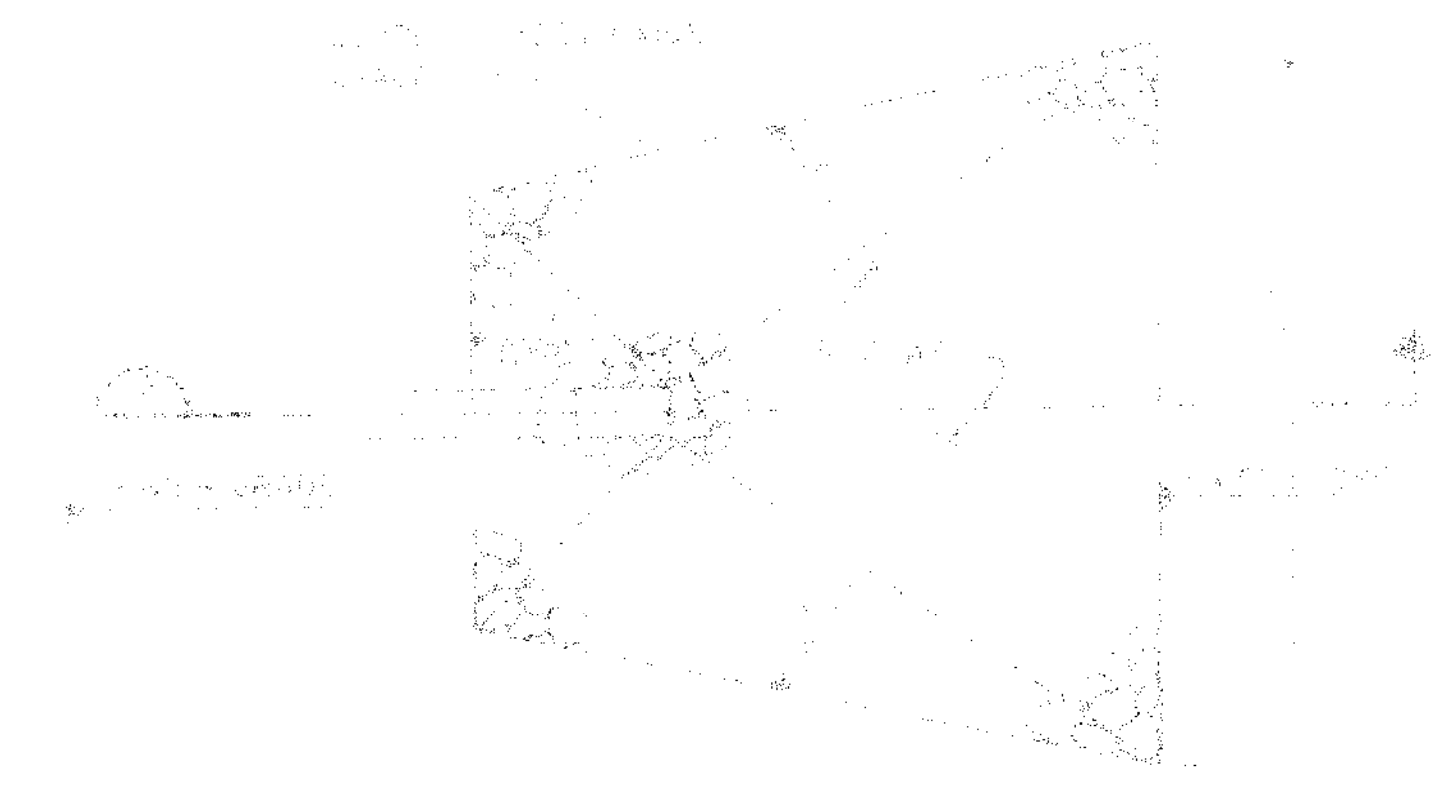
PLAN VIEW
OF THE STRUCTURE



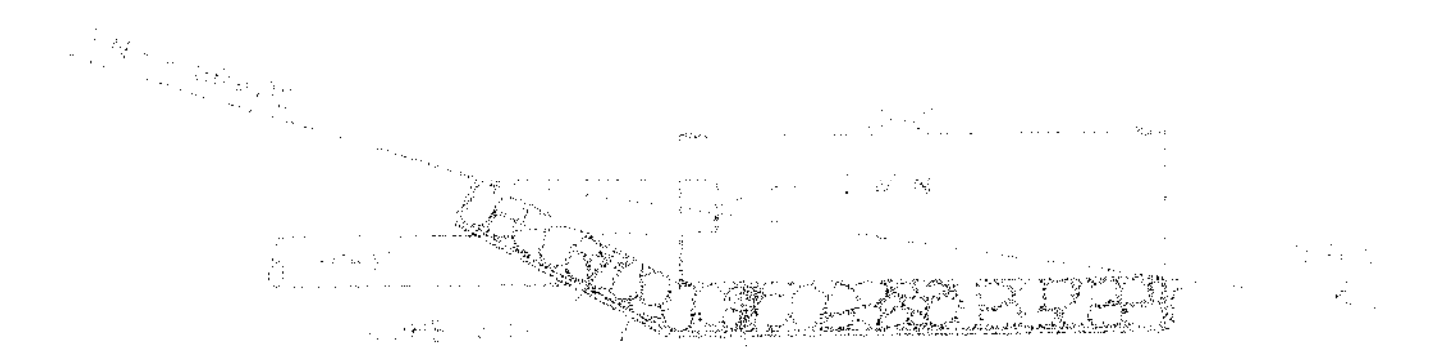
PLAN VIEW
OF THE STRUCTURE



PLAN VIEW
OF THE STRUCTURE



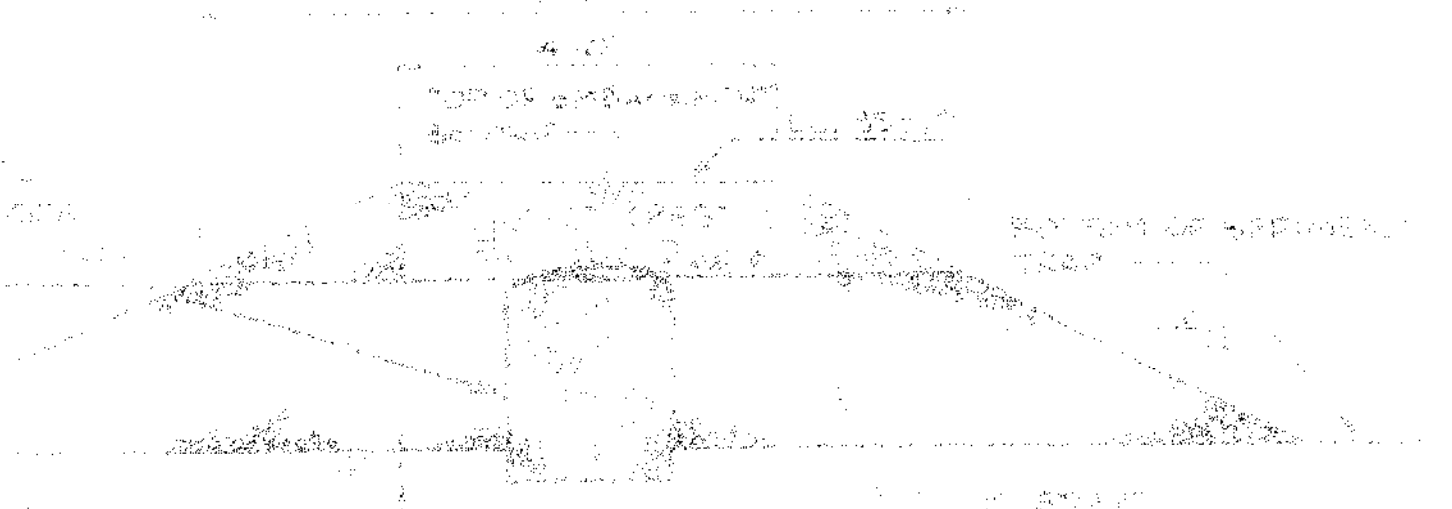
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ELEVATION

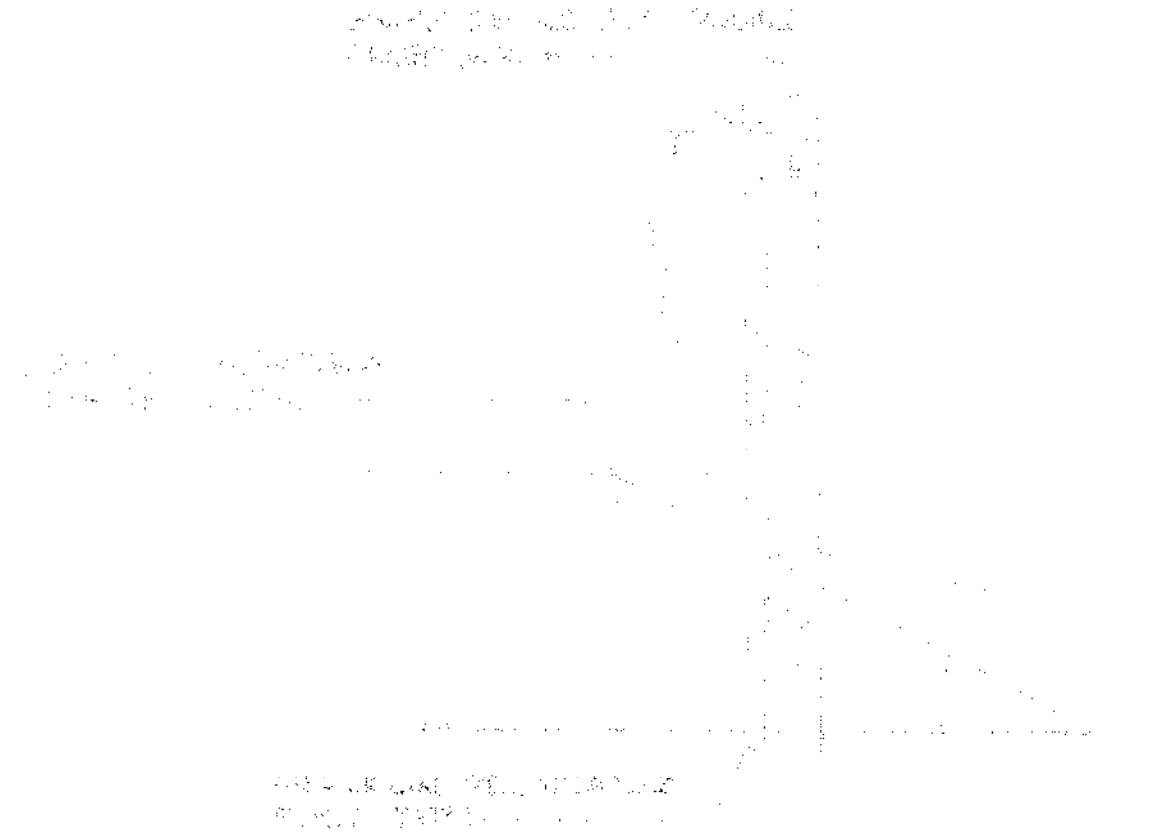


PLAN

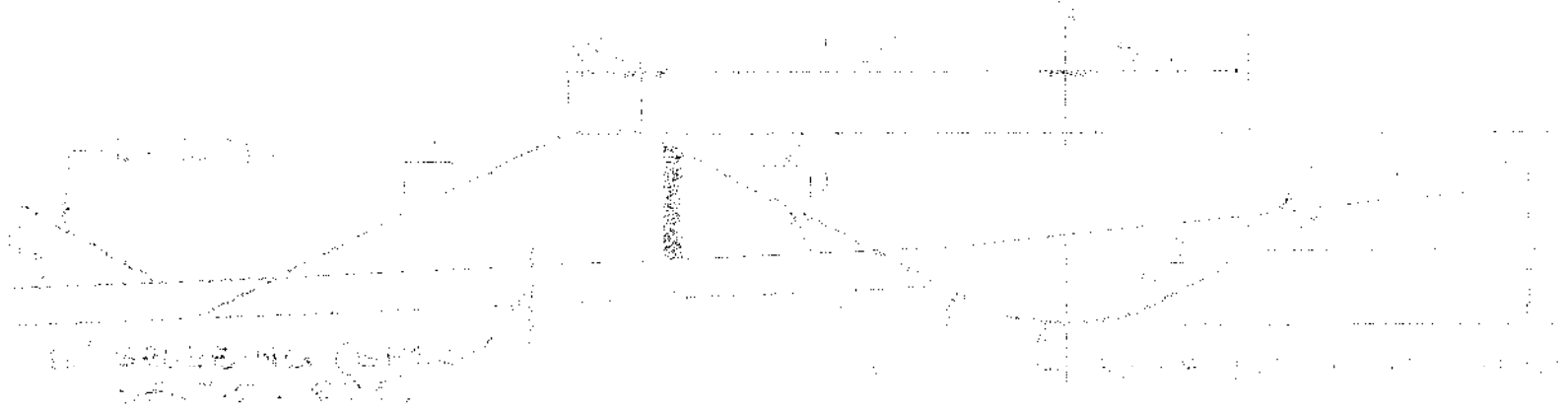


ELEVATION

STONE WALL SECTION THROUGH

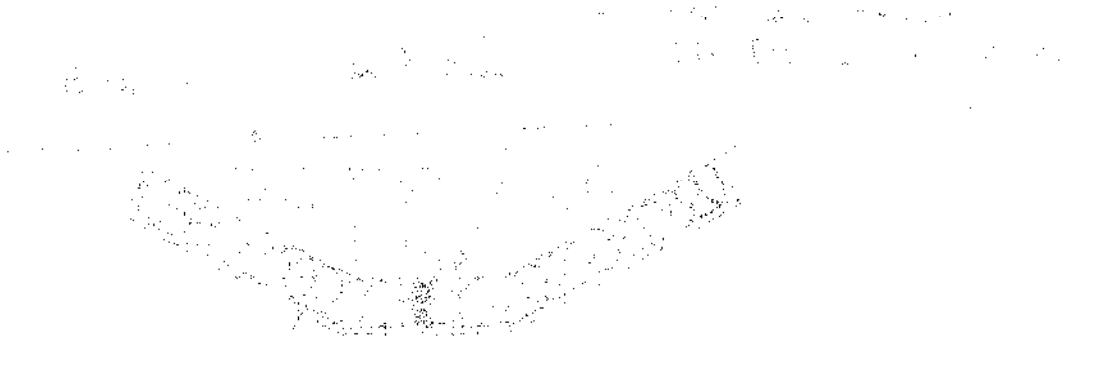


PLAN VIEW OF BRIDGE



ELEVATION
OF THE STRUCTURE

TYPICAL SECTION
OF THE STRUCTURE



PLAN VIEW

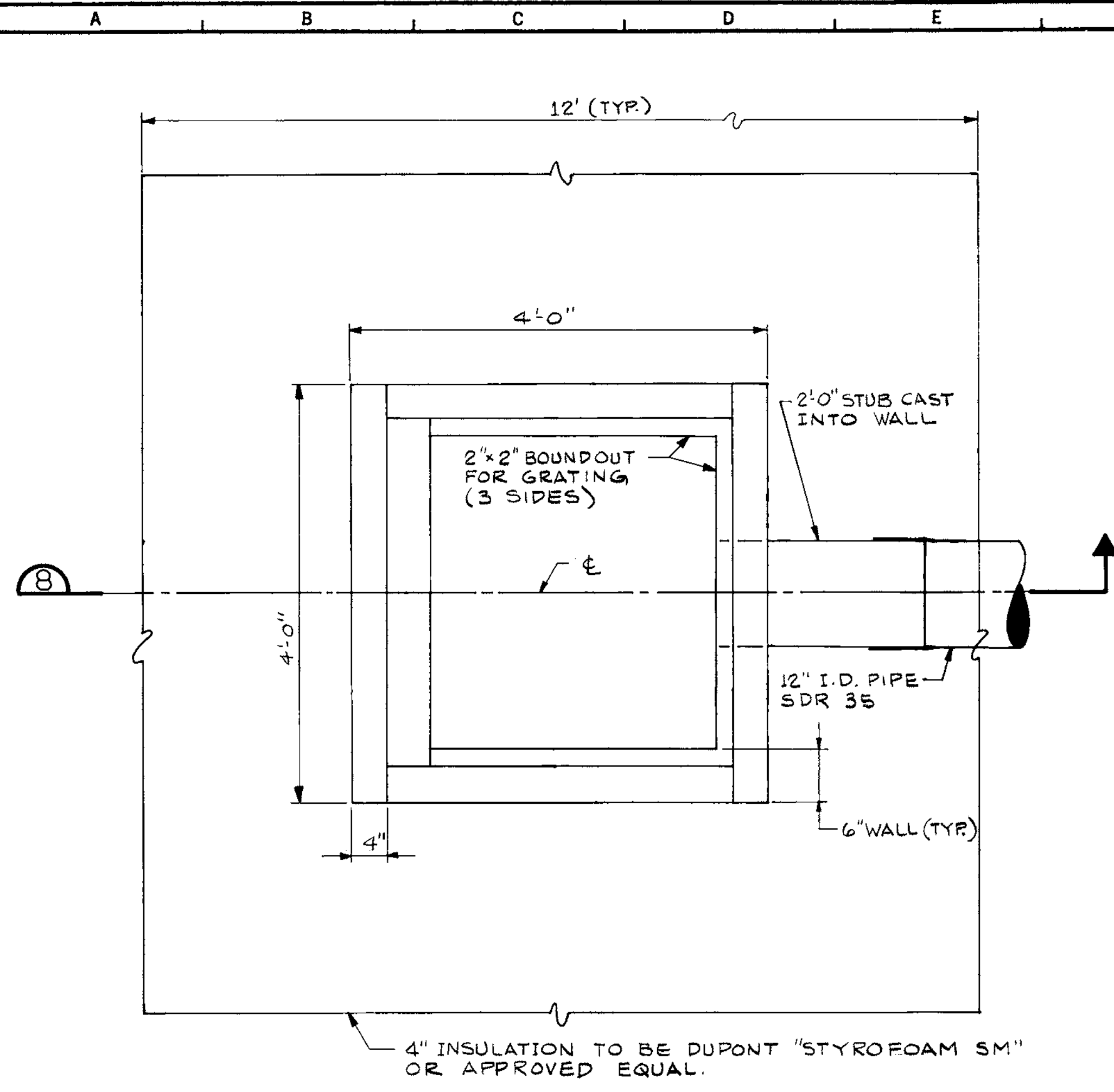
SECTION THROUGH THE STRUCTURE

SEVEE & MAHER ENGINEERS, PA
ARCHITECTS
1000 N. 10TH ST., SUITE 100
PHILADELPHIA, PA 19107
TEL: 215-595-1234
FAX: 215-595-1234
WWW.SMAHER.COM

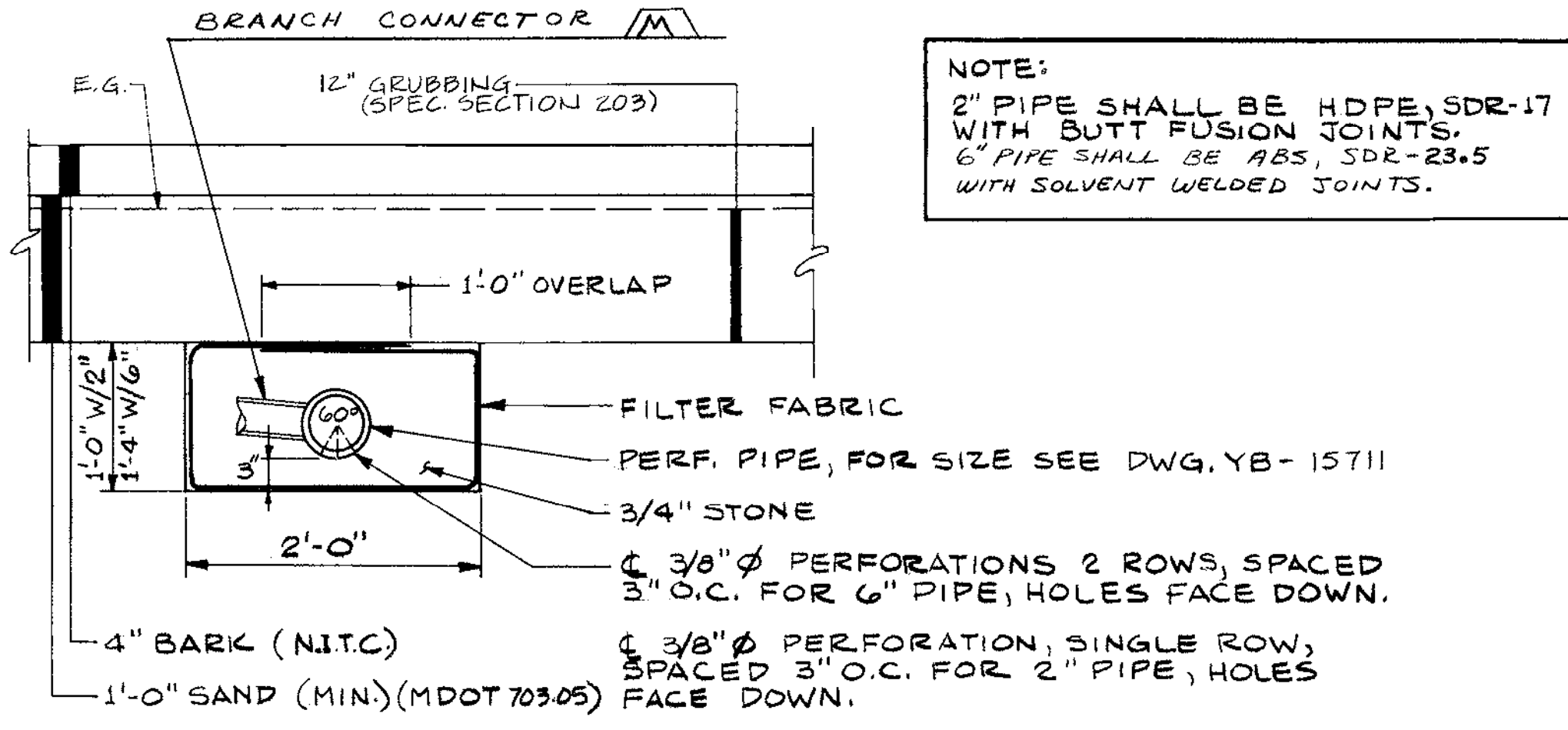
SEVEE & MAHER ENGINEERS, PA
ARCHITECTS
EO JORDANCO
CONSULTING ENGINEERS
1000 N. 10TH ST., SUITE 100
PHILADELPHIA, PA 19107
TEL: 215-595-1234
FAX: 215-595-1234
WWW.SMAHER.COM

Great Northern Pipe
1000 N. 10TH ST., SUITE 100
PHILADELPHIA, PA 19107
TEL: 215-595-1234
FAX: 215-595-1234
WWW.GNPIPE.COM

General Engineering Department
1000 N. 10TH ST., SUITE 100
PHILADELPHIA, PA 19107
TEL: 215-595-1234
FAX: 215-595-1234
WWW.GENENG.COM

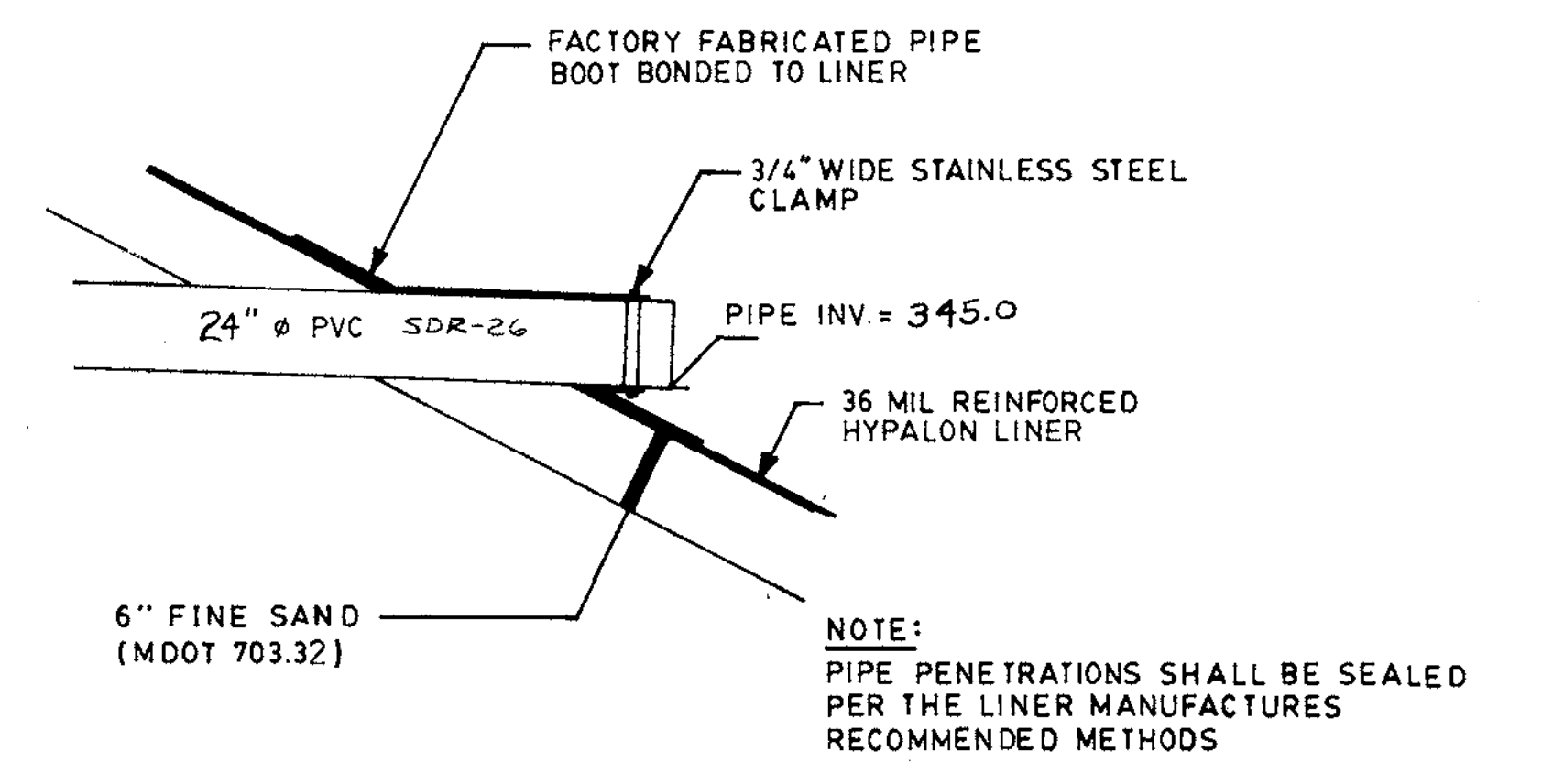


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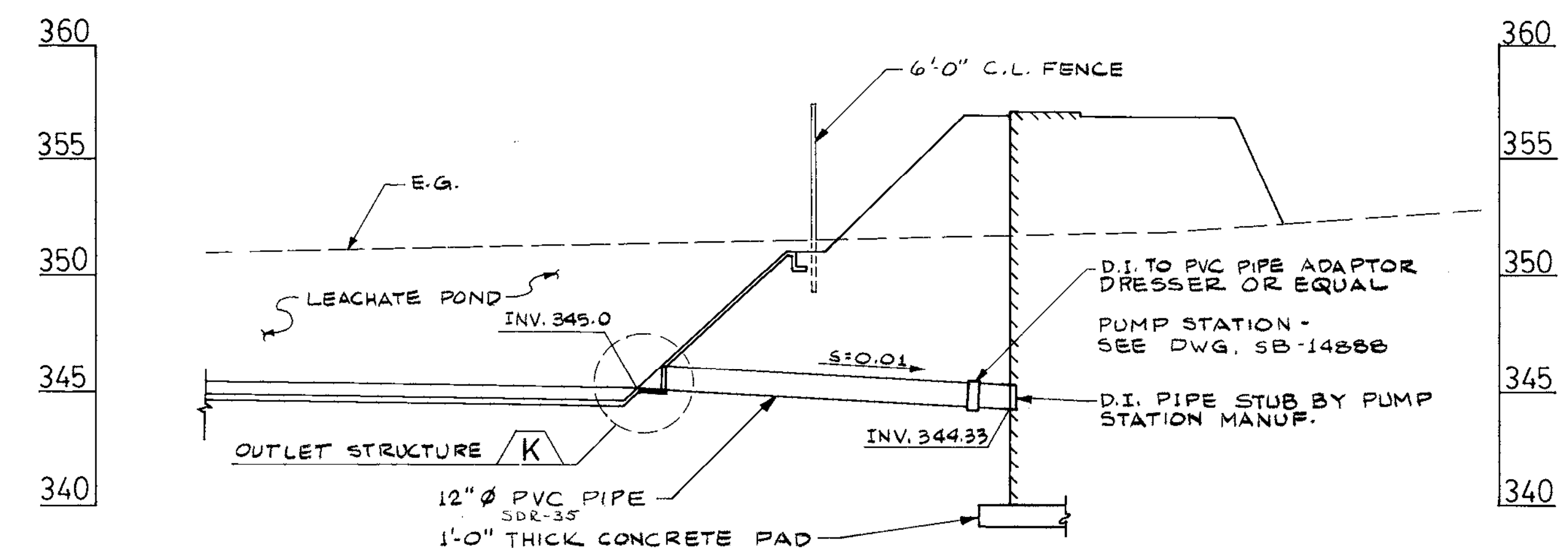


NOTE:
 2" PIPE SHALL BE HDPE, SDR-17 WITH BUTT FUSION JOINTS.
 6" PIPE SHALL BE ABS, SDR-23.5 WITH SOLVENT WELDED JOINTS.

2-IN. 6-IN. LEACHATE COLLECTION PIPES (9)
 SCALE: 1" = 1'-0"
 YB-14791
 YB-15711

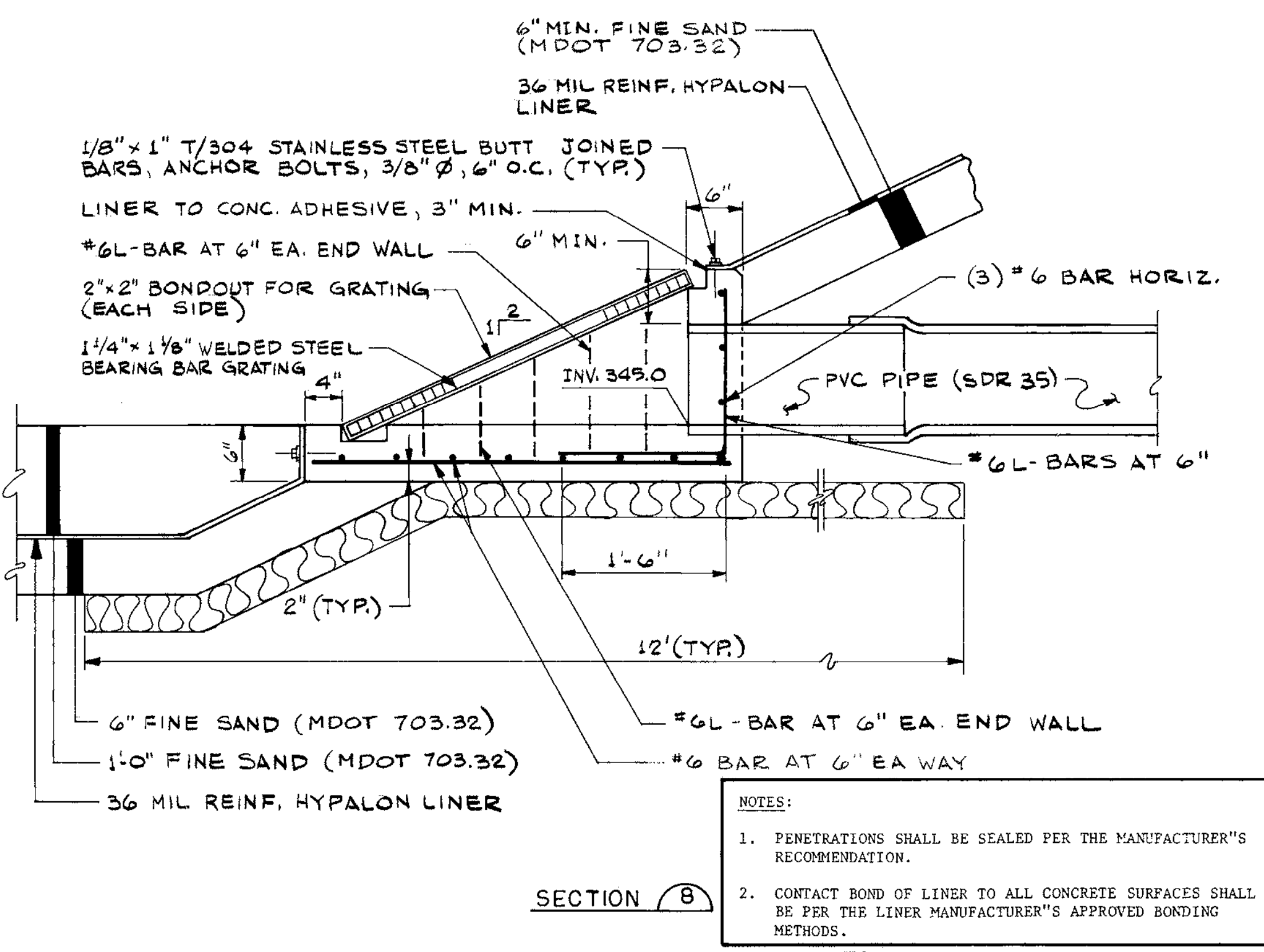


POND INLET AND PIPE BOOT (L)
 N.T.S.
 YB-14791

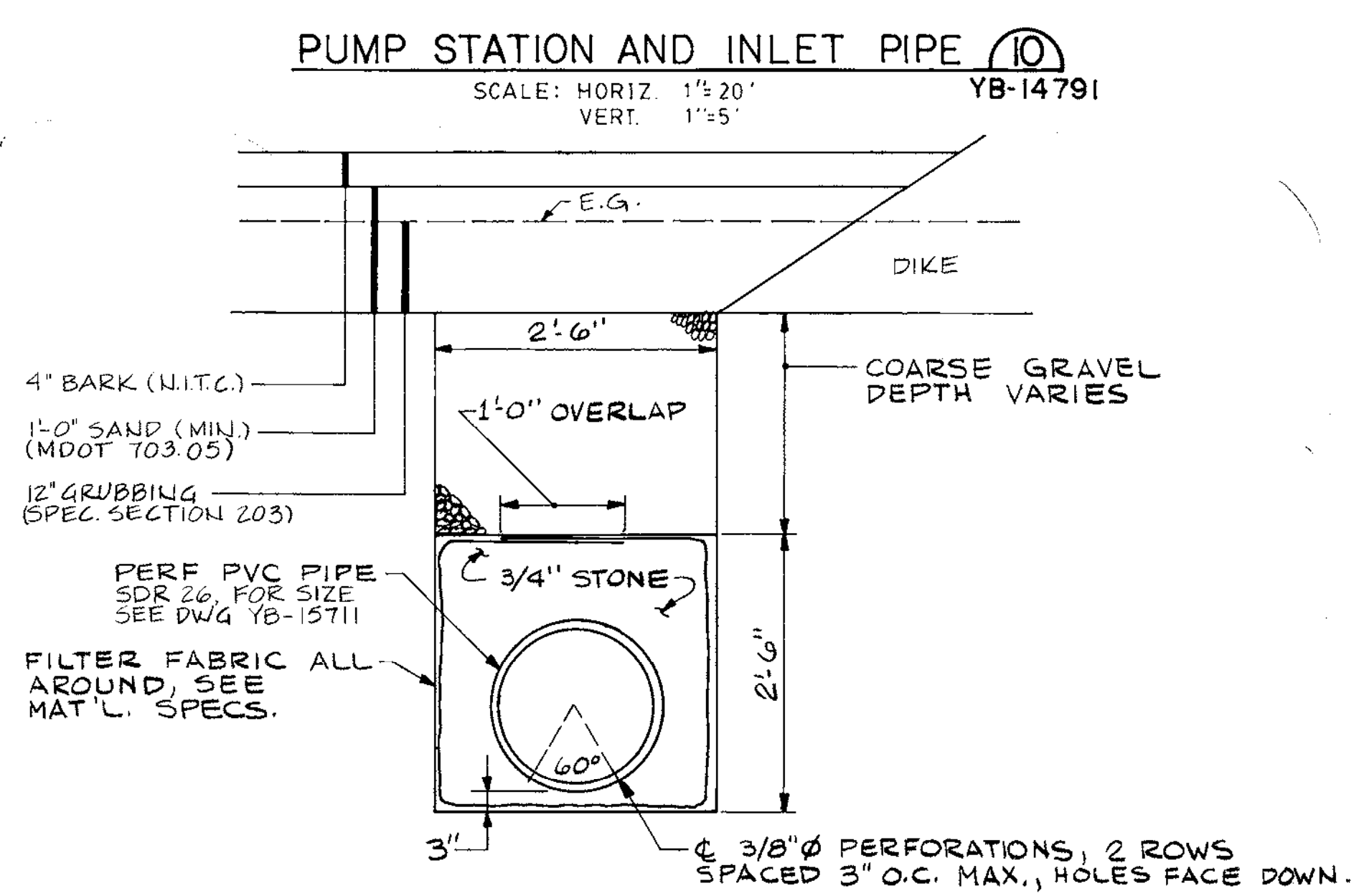


PUMP STATION AND INLET PIPE (10)
 SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5"
 YB-14791

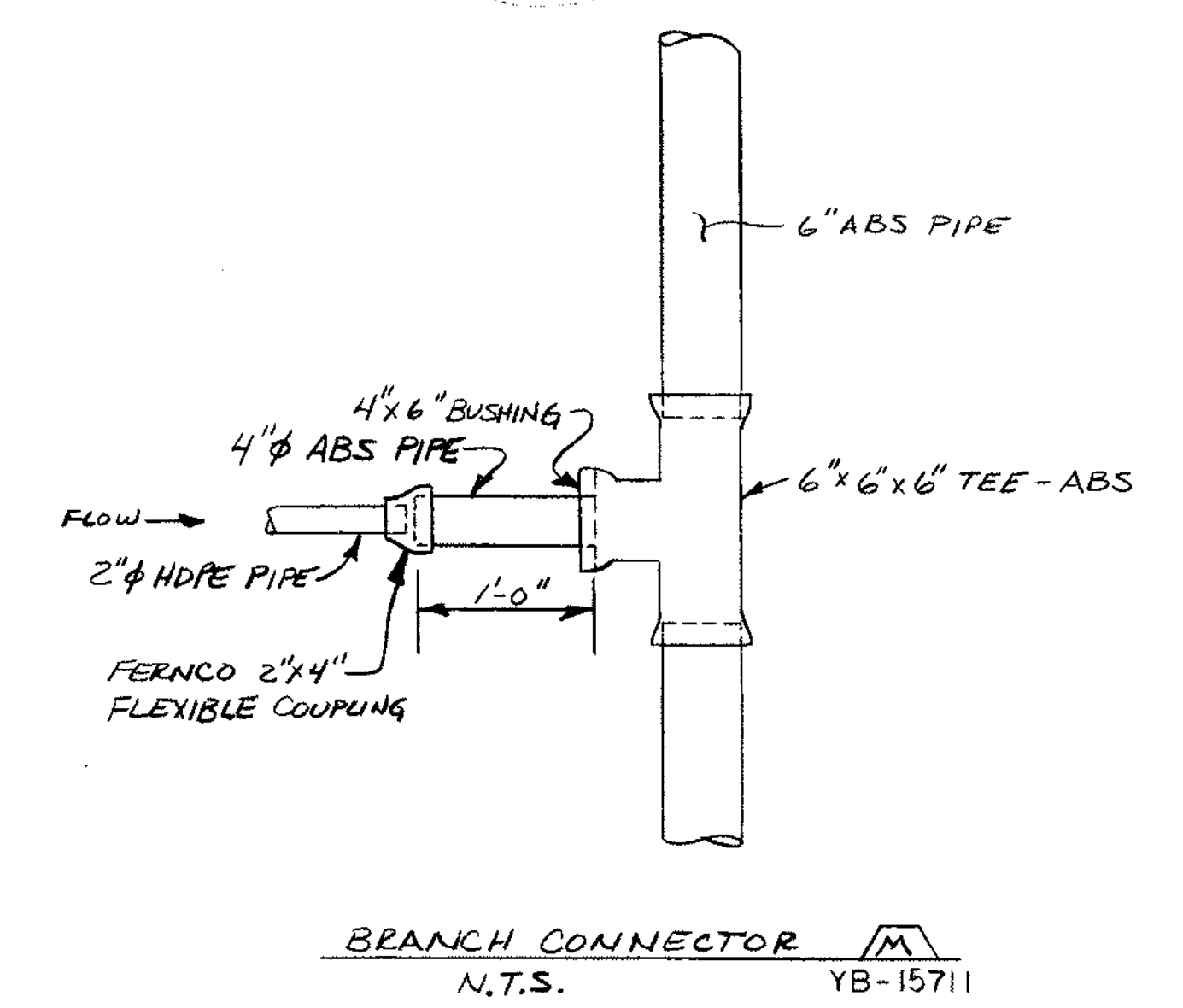
NOTES:
 2" PIPE HDPE SDR-17 W/BUTT FUSION JOINTS
 4" PIPE ABS SDR-23.5 W/SOLVENT JOINTS
 6" PIPE ABS SDR-23.5 W/SOLVENT JOINTS
 12" PIPE PVC SDR-35
 18" PIPE PVC SDR-26
 24" PIPE PVC SDR-26
 GATE VALVES - CLOW F506S MECH. JOINT, NO RISING STEM FOR 4" & 24" PIPE OR EQUAL
 INDICATOR POST - CLOW F5760 OR EQUAL
 12" PIPE PVC SDR-26



OUTLET STRUCTURE (TYP) (K)
 SCALE: 1" = 1'-0"
 YB-14791



PERF. LEACHATE COLLECTION MAIN (11)
 YB-14791
 YB-15711



BRANCH CONNECTOR (M)
 N.T.S.
 YB-15711

NOTES:
 1. PENETRATIONS SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATION.
 2. CONTACT BOND OF LINER TO ALL CONCRETE SURFACES SHALL BE PER THE LINER MANUFACTURER'S APPROVED BONDING METHODS.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		C	A	5/26/87	GENERAL REVISION FOR JOB # 94473 CELL 2	ECJ	ECJ	WJN	94473

SEVEE & MAHER ENGINEERS, PA
 WESTBROOK, MAINE
E.C. JORDAN CO.
 CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO. _____

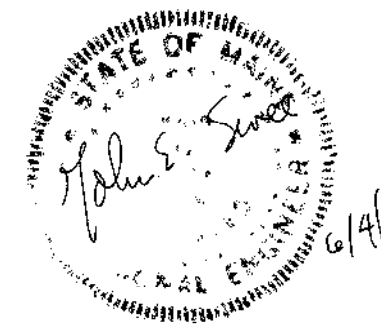
DRN 2-100 11/22/83
 CKD MAHER 12/16/83
 CORR
 APPVD
 ISSUE CODE
 P-PRELIM B-BIDS
 M-MTL. D.C. CONST
 SCALE NOTED

Great Northern Paper
 a company of
 Great Northern Nekeosa Corporation

CENTRAL ENGINEERING DEPARTMENT
 EAST MILLINOCKET MILL
 DOLBY 3 LANDFILL
 SITE DEVELOPMENT
 DETAILS

JOB NO. 2668
 ENG. REQ. NO. 2-8313
 FILE NO. 2-0927082

YB-14796-A

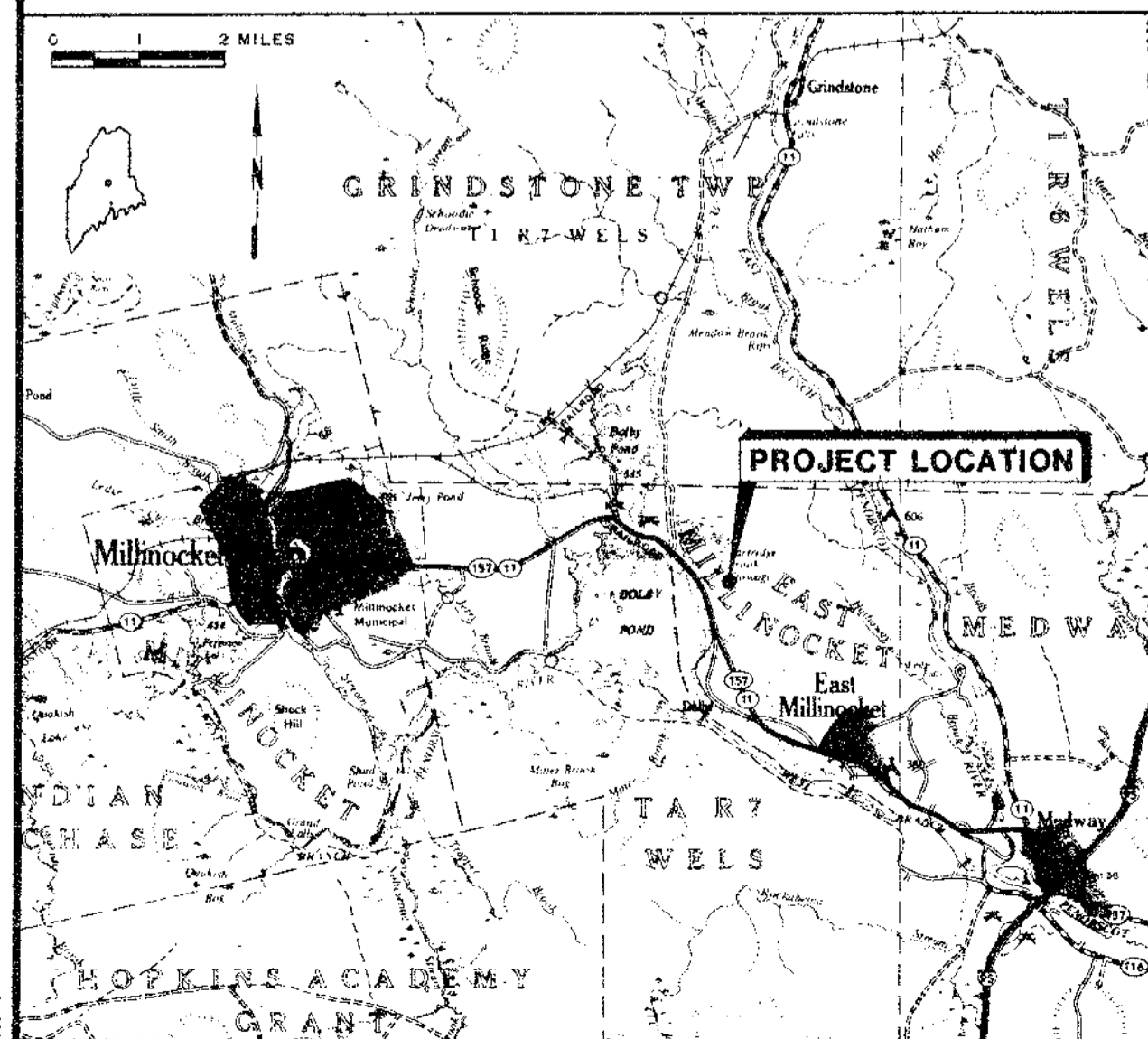


GREAT NORTHERN PAPER CO. MILLINOCKET, MAINE

DOLBY 3 LANDFILL CELL 3 CONSTRUCTION

RECORD DRAWINGS

	<u>TITLE</u>	<u>DWG. NO.</u>
COVER SHEET		YB-15911
DOLBY 3 LANDFILL	SYMBOLS & ABBREVIATIONS	YB-15912
DOLBY 3 LANDFILL	SITE LOCATION PLAN	YB-15913
DOLBY 3 LANDFILL	SITE DEVELOPMENT PLAN	YB-15914
DOLBY 3 LANDFILL	SECTIONS & DETAILS	YB-15915



SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

1988



Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY 3 LANDFILL
CELLS 3A AND 3B
COVER SHEET

JOB NO. _____
ENG. REG. NO. 2-8627
FILE NO. 2-092-4703,7082

YB-15911

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		NORTH ARROW (TRUE)			NORTH ARROW (MAGNETIC)
		NORTH ARROW (PLAN NORTH)			NORTH ARROW (MAGNETIC)
		CONTOUR LINES			EDGE OF WATER
		SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)
		EXISTING GROUND (PROFILES & SECTIONS)			ROCK OUTCROP OR LEDGE
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT			FENCE LINE (WOOD)
		CONSTRUCTION BASELINE			FENCE LINE (WIRE)
		PROPERTY OR DEED LINE (NOT SURVEYED)			RETAINING WALL (TYPE)
		PROPERTY LINE W/ BEARING & DISTANCE			GUARD RAIL
		ROADS, EASEMENTS OR RIGHT OF WAY LINE			BUILDING & STRUCTURES
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)			STEPS W/ TYPE (WOOD/CONCRETE)
		SURVEY MONUMENT			SLOPE RATIO (HORIZONTAL TO VERTICAL)
		SURVEY IRON (FOUND)			SLOPES (W/ SLOPE RATIO)
		DRILL HOLE, PK OR STAKE			EDGE OF TRAVELED WAY (TYPE)
		WOODS OR BRUSH LINE			CUT OR FILL LINE
		INDIVIDUAL TREE (DECIDUOUS)			CONSTRUCTION LIMIT LINE
		INDIVIDUAL TREE (CONIFEROUS)			BITUMINOUS PAVEMENT
		TREE, TO BE REMOVED			GRAVEL ROAD
		MARSH AREA			CONCRETE
		TEST BORING, MONITORING WELL OR PROBE & NUMBER			TEST BORING, MONITORING WELL OR PROBE & NUMBER

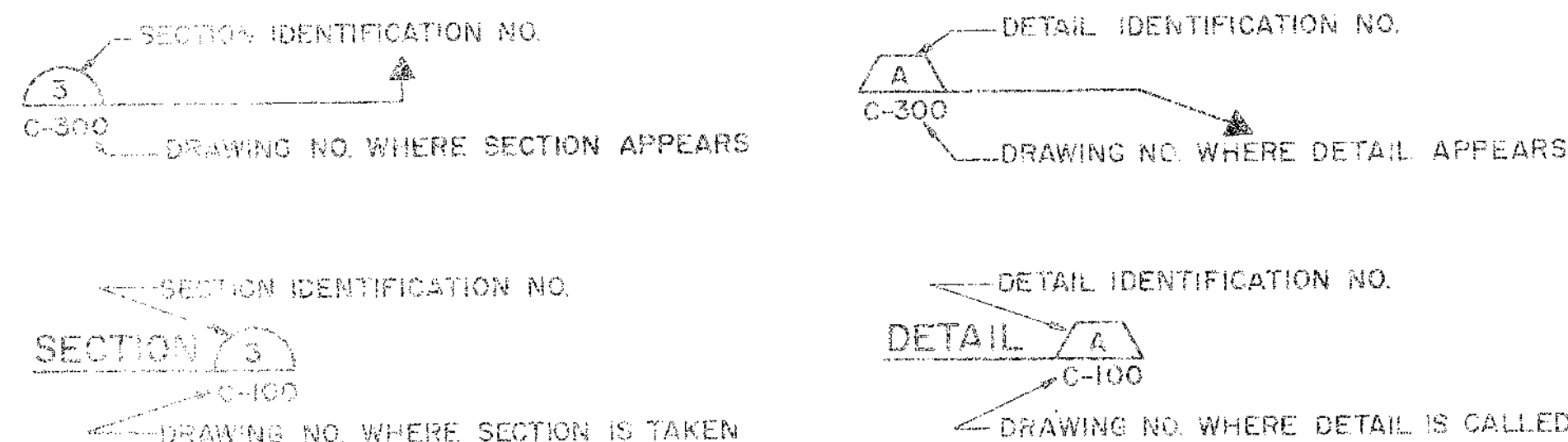
PIPE SCHEDULE

2" HDPE SHALL BE SDR 17 WITH BUTT FUSED JOINTS.
 6" PVC SHALL BE SDR 21 WITH PUSH-ON JOINTS.
 12" PVC SHALL BE SDR 26 WITH PUSH-ON JOINTS.

ABBREVIATIONS

A.C.C.H.P. ASPHALT COATED C.H.P.	CONC CONCRETE	FPS FEET PER SECOND	NO NUMBER
A.C.F. ASBESTOS CEMENT FIBRE	CONST CONSTRUCTION	FEET FEET	O.C. ON CENTER
AC AC	CONTR CONTRACTOR	FOOTING FOOTING	O.D. OUTSIDE DIAMETER
AGG AGGREGATE	CTR CENTER	GAUGE GAUGE	P.O.C. POINT OF CURVE
ALUM ALUMINUM	CY CUBIC YARD	GAL GALLON	P.O.I. POINT OF INTERSECTION
APPD APPROVED	D DEGREE OF CURVE (ARC DEP.)	GALV GALVANIZED	P.T. POINT OF TANGENT
APPROX APPROXIMATE	DBL DOUBLE	GPD GALLONS PER DAY	PERF PERFORATED
ASB ASBESTOS	DEG OR DEGREE	GPM GALLONS PER MINUTE	PFS POUNDS PER SQUARE INCH
ASPR ASPHALT	DEPT DEPARTMENT	HDPE HIGH DENSITY POLYETHYLENE	PVC POLYVINYL CHLORIDE
A72 C.H.P. ALUMINUM TYPE 2 C.H.P.	DI DIA OR DIAMETER	HP HOSPITAL	PVHT PAVEMENT
AUTC AUTOMATIC	DIA OR DIA OR DIAMETER	HYD HYDRANT	QTY QUANTITY
AVE AUXILIARY	DIM DIMENSION	I.D. INSIDE DIAMETER	R.O.R. RIGHT OF WAY
AVG AVERAGE	DIST DISTANCE	IN OR IN INCHES	RAD RADIUS
AZ AZIMUTH	DN DOWN	INVERT INVERT	RQSD ROUNDED
B.C.C.H.P. BITUMINOUS COATED C.H.P.	DR DRAIN	INV. EL. INVERT ELEVATION	RT RIGHT
B.M. BENCH MARK	DWG DRAWING	LB LB	ROBE ROBE
BIT BITUMINOUS	EA EACH	LINEAR FEET LINEAR FEET	S SLOPE
BUILD BUILDING	EG EXISTING GROUND	LOC LOCATION	SCH SCHEDULES
BOI BOILING	ELEC ELECTRIC	LEFT LEFT	SF SQUARE FEET
BRG BRACING	ELL ELL	N.H. NAIL HOLE	SHT SHEET
C.B. CATCH BASIN	EQUI EQUIPMENT	M.C. MECHANICAL JOINT	STA STATION
C.H.P. CORRUGATED METAL PIPE	EST ESTIMATED	MATERIAL MATERIAL	SY SQUARE YARD
C.O. CLEAN OUT	EXP EXPANSE	MAX MAXIMUM	TAN TANGENT
CEN. LINE. CEMENT LINKED	EXIST EXISTING	MANUFACTURER MANUFACTURER	TDB TOP OF BENCH MARK
CENTRAL ANGLE OF CURVE	F.G. FINISH GRADE	MIN MINIMUM	TEMP TEMPORARY
CF CONIC FEET	FIBERGLASS FIBERGLASS	MISCELLANEOUS MISCELLANEOUS	TYP TYPICAL
CFS CUBIC FEET PER SECOND	FOU FOUNDATION	MON MONUMENT	TOL TOLLS
CI CAST IRON	FLEX FLEXIBLE	NOT IN THIS CONTRACT NOT IN THIS CONTRACT	TRF TRAFFIC
CL CLASS	FLG FLANGE	R.T.S. NOT TO SCALE	TRF TRAFFIC
	FLR FLOOR	N/P NOT OR FORMERLY	YD YARD

VIEW MARKERS & IDENTIFICATION



SEVEE & MAHER ENGINEERS, INC.
 WESTBROOK, MAINE

JOB NO. 8804

Great Northern Paper
 a company of
 Great Northern Nekeosa Corporation

CENTRAL ENGINEERING DEPARTMENT

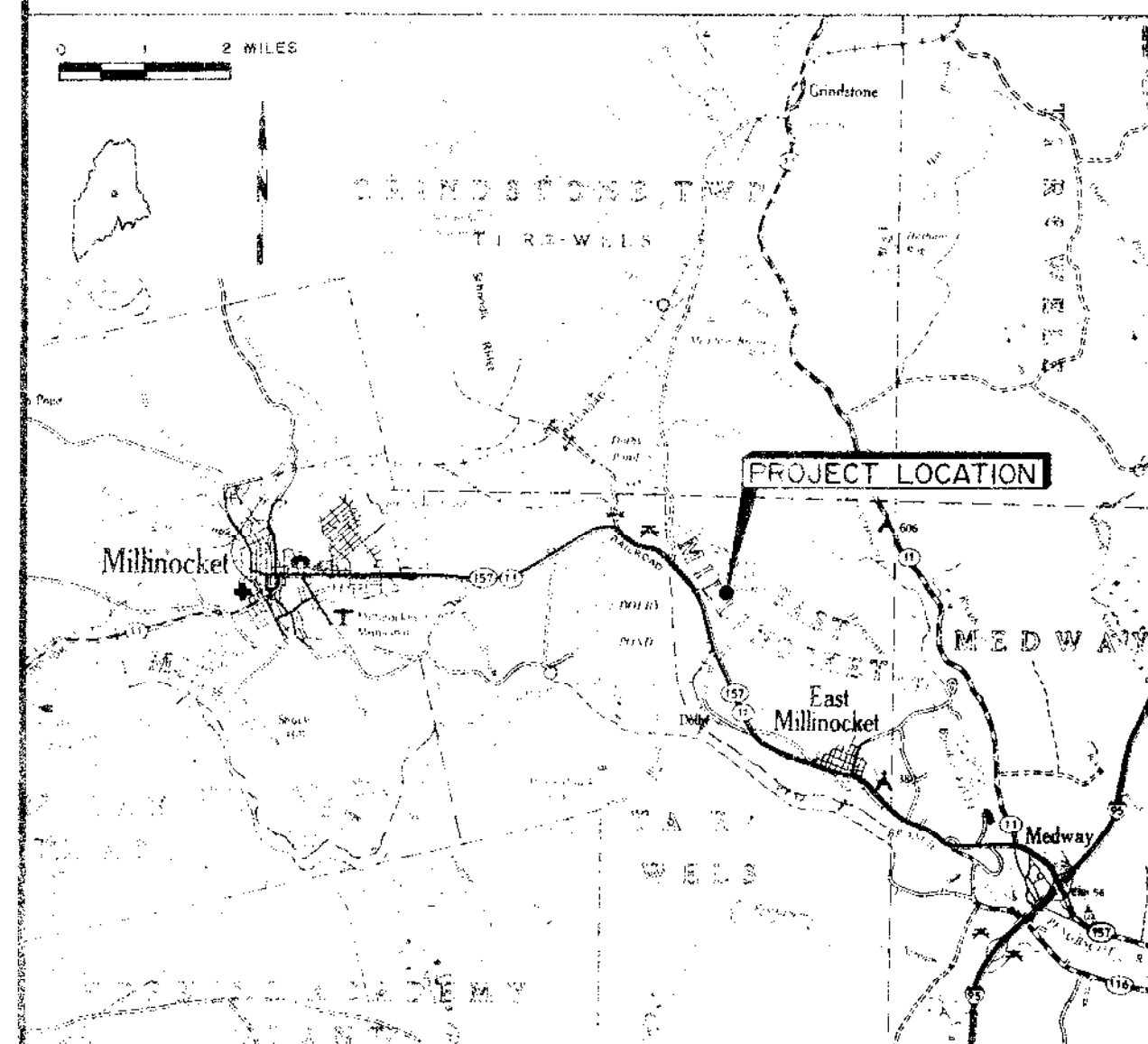
DOLBY 3 LANDFILL
 CELLS 3A AND 3B
 SYMBOLS & ABBREVIATIONS

JOB NO. _____
 ENG. REG. NO. 2-8627
 FILE NO. 2-092-4703,7082

YB-15912


GREAT NORTHERN PAPER CO. MILLINOCKET, MAINE

DOLBY III LANDFILL CELL 4 CONSTRUCTION



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1989

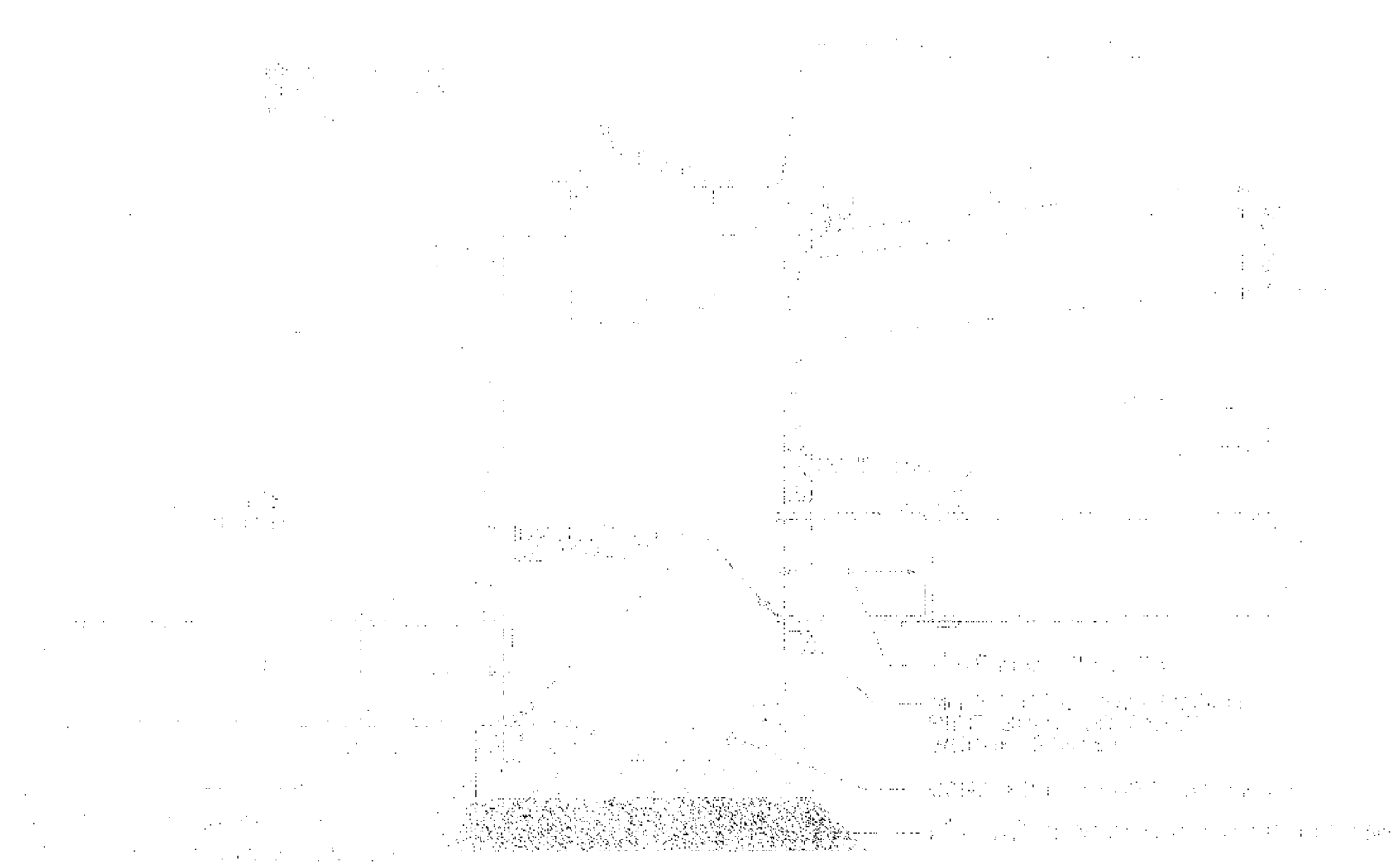
 Great Northern Paper a company of Great Northern Nekeosa Corporation	CENTRAL ENGINEERING DEPARTMENT
	DOLBY III LANDFILL CELL 4 COVER SHEET
JOB NO. 94528 ENG. REG. NO. FILE NO. 2-092-4703, 7082	YB-19000



NO.	DESCRIPTION	DATE	BY	CHECKED
1	AS BUILT DRAWING			
2	REVISIONS			
3	REVISIONS			
4	REVISIONS			
5	REVISIONS			
6	REVISIONS			
7	REVISIONS			
8	REVISIONS			
9	REVISIONS			
10	REVISIONS			
11	REVISIONS			
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44	REVISIONS			
45	REVISIONS			
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47	REVISIONS			
48	REVISIONS			
49	REVISIONS			
50	REVISIONS			

SEVEN & MAHER ENGINEERS, INC.
 CORDELAND, MAINE
 1000 W. 10th St.
 Cordeland, Maine 04824
 Phone: (207) 833-1111
 Fax: (207) 833-1112
 E-mail: info@sevenmaher.com
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 Cordeland, Maine 04824
 Phone: (207) 833-1111
 Fax: (207) 833-1112
 E-mail: info@gnp.com
 Website: www.gnp.com



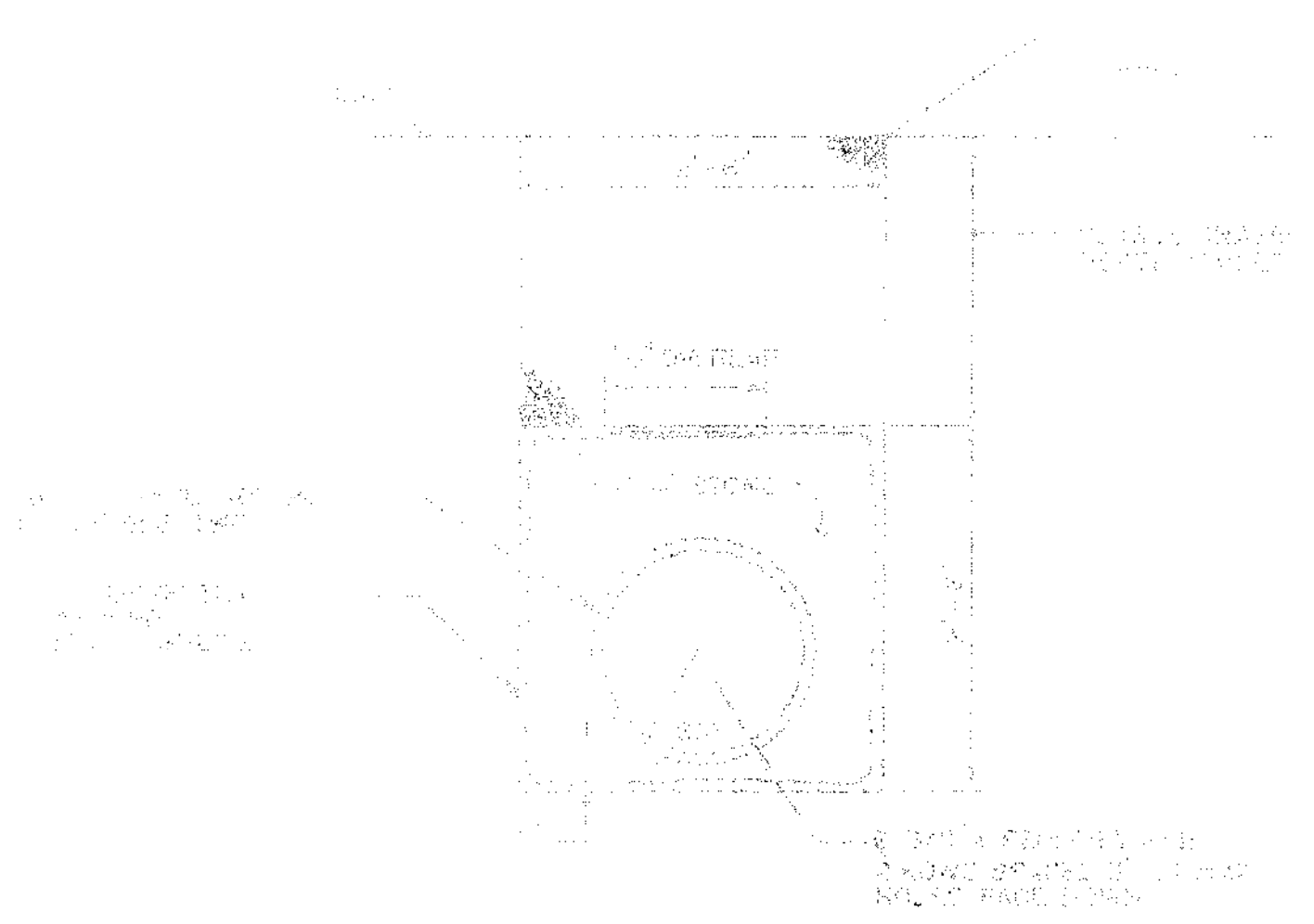
SECTION A-A



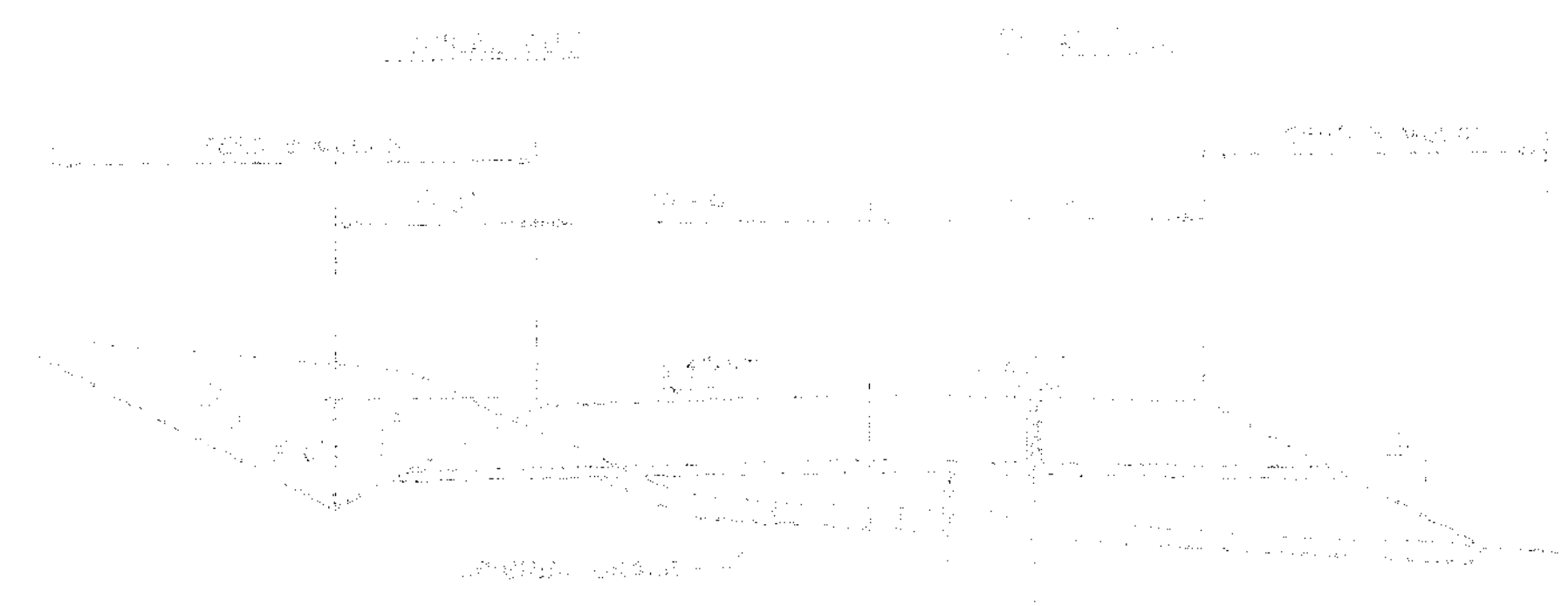
SECTION B-B



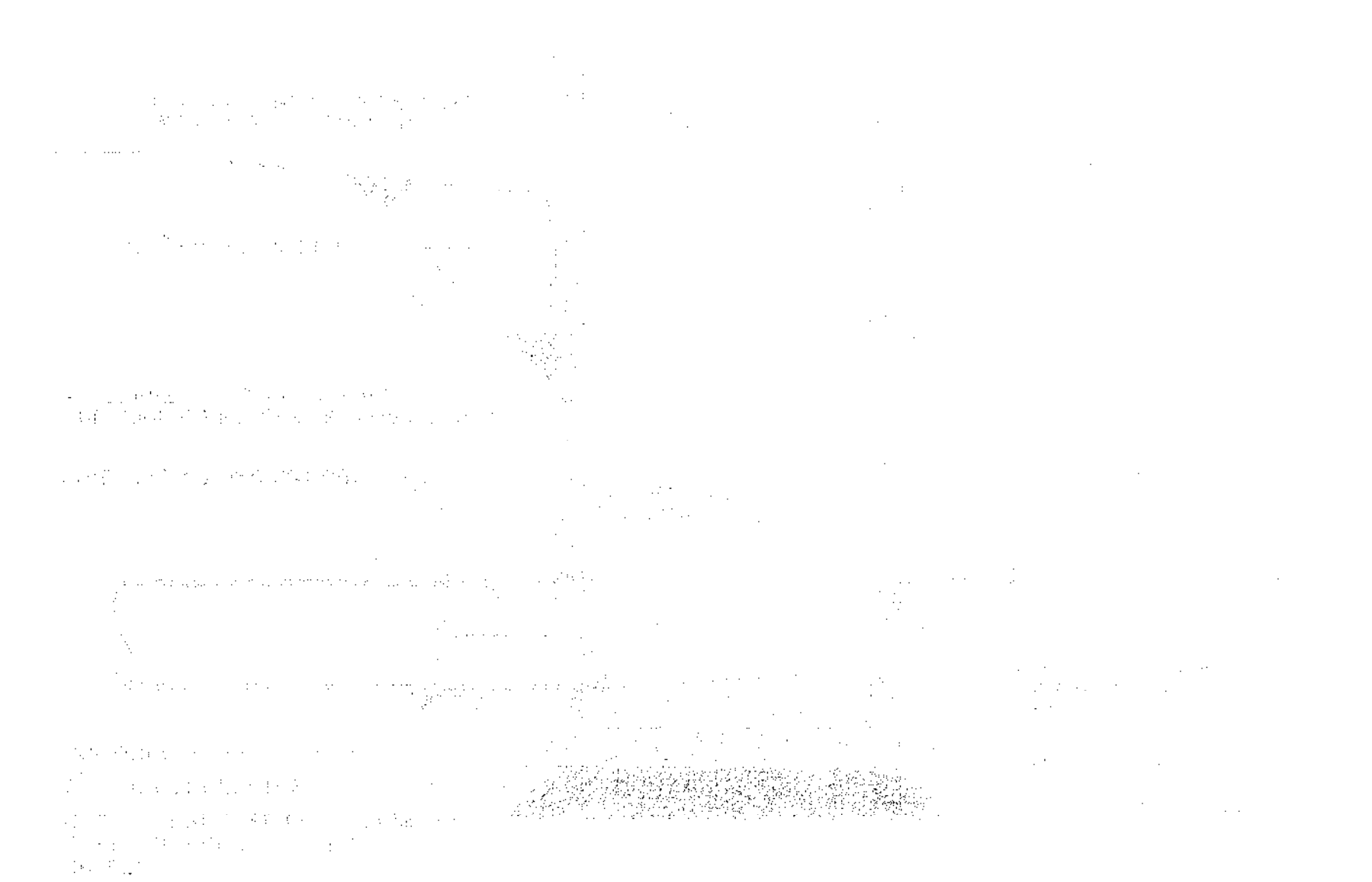
SECTION C-C



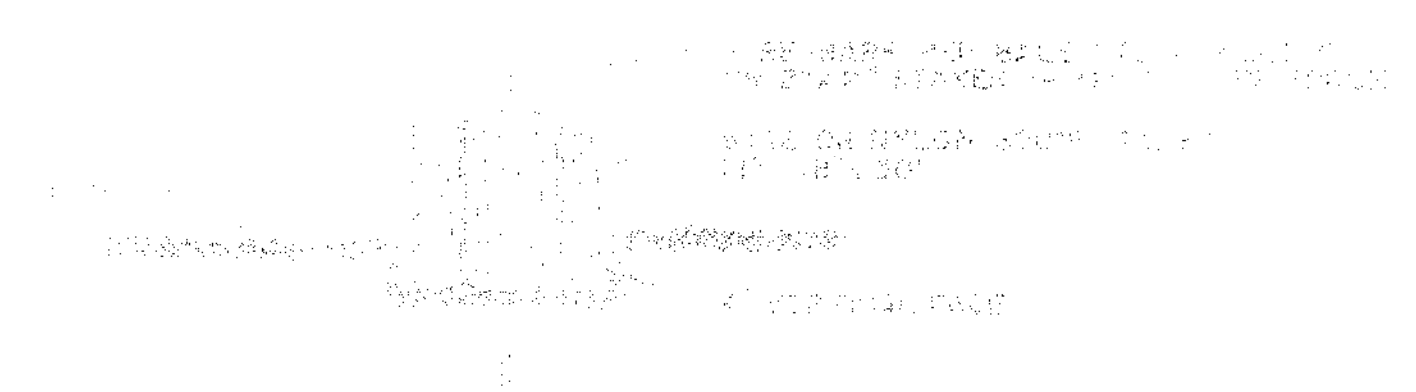
SECTION D-D



SECTION E-E



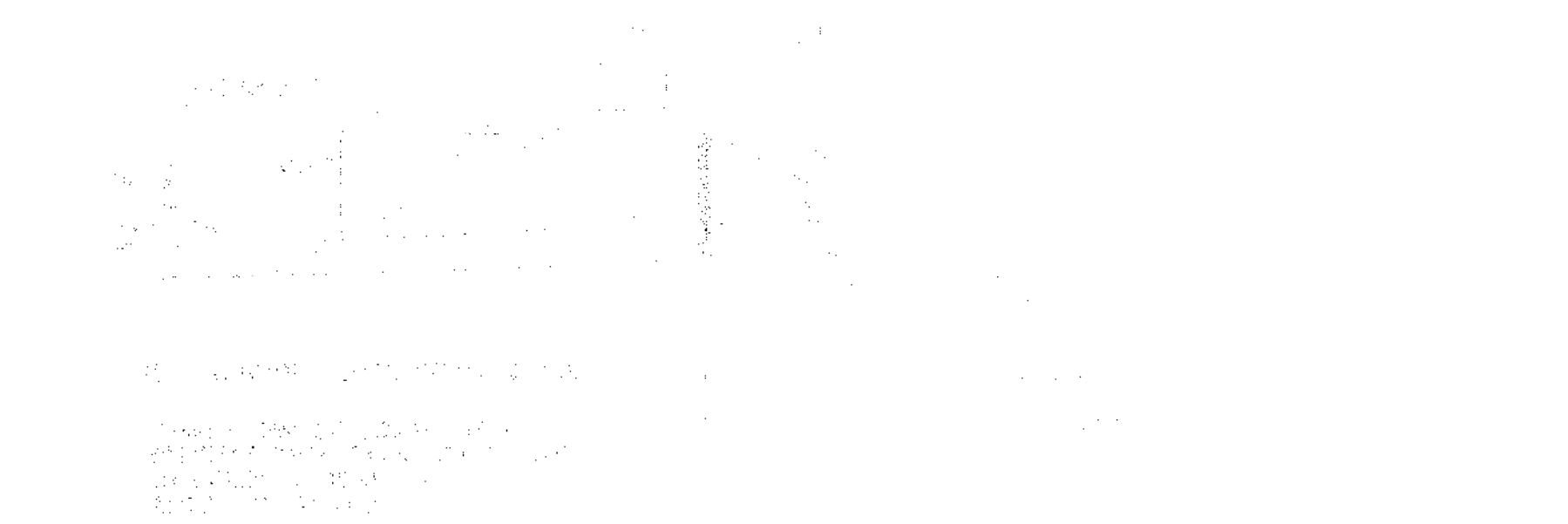
SECTION F-F



SECTION G-G



SECTION H-H



SECTION I-I

LEWIS & WARD ENGINEERS, INC.
DAMSKILL DAM

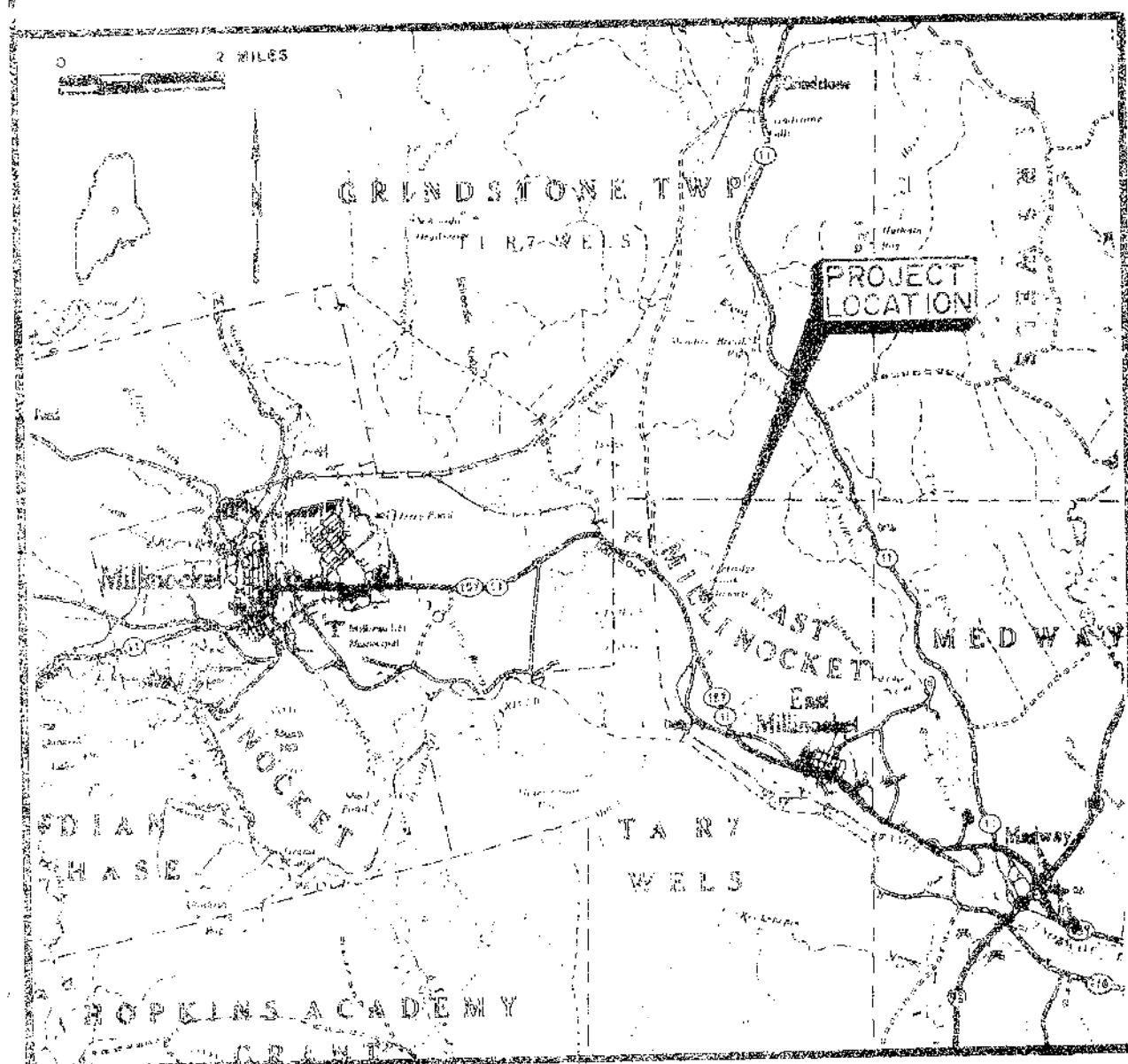
GEORGIA-PACIFIC, NORTHERN PAPERS DIVISION

MILLINOCKET, MAINE

DOLBY III LANDFILL

REMEDIAL ACTIONS CELLS 1 AND 2


SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19176
2	SYMBOLS & ABBREVIATIONS	YB-19177
3	SITE LOCATION PLAN	YB-19178
4	EXISTING TOPOGRAPHY PLAN - CELL 1	YB-19179
5	EXISTING TOPOGRAPHY PLAN - CELL 2	YB-19180
6	SECTIONS & DETAILS	YB-19181



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE


1990

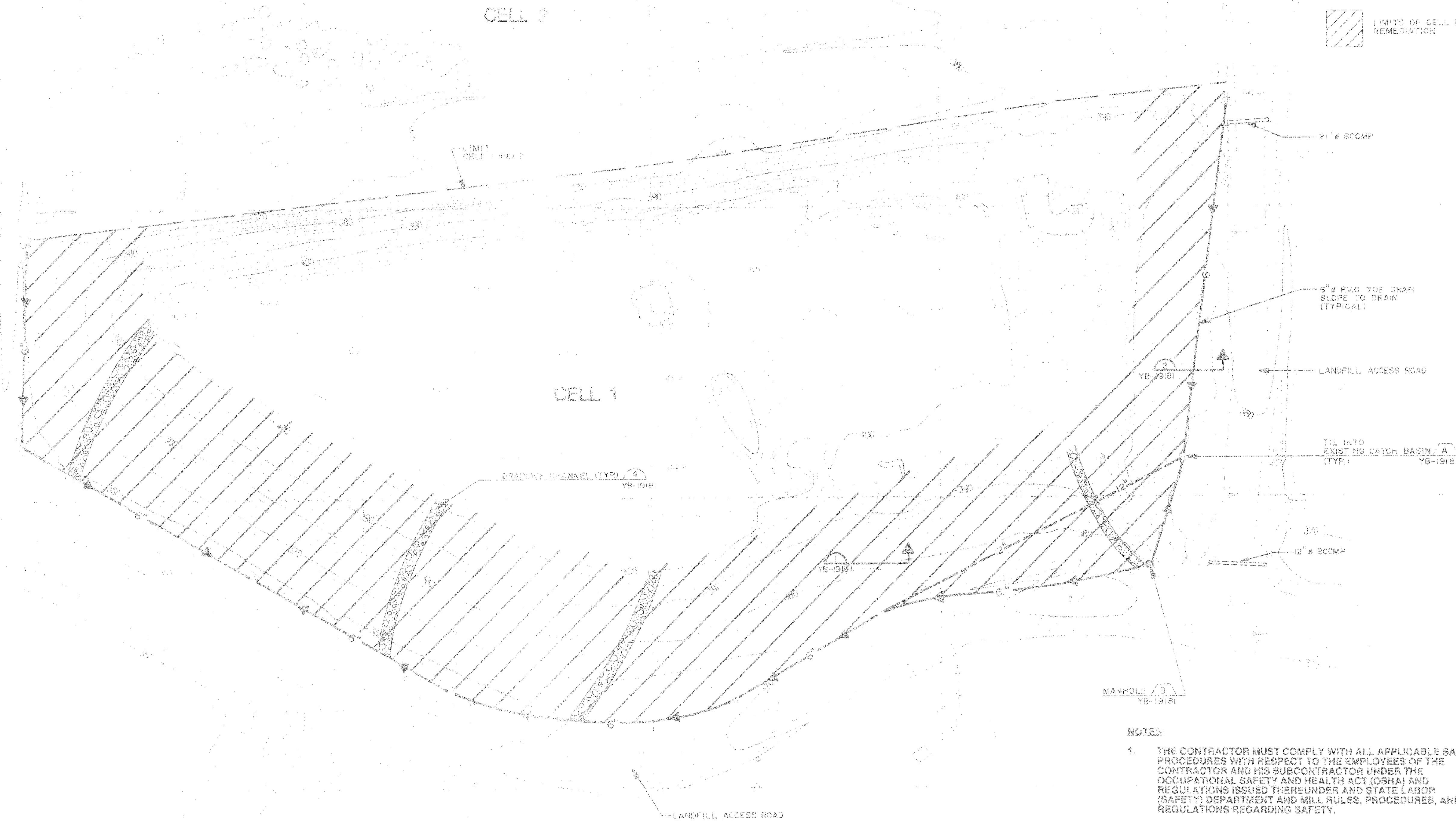


 <p>Great Northern Paper a company of Great Northern Nekeasa Corporation</p>	<p>CENTRAL ENGINEERING DEPARTMENT EAST MILLINOCKET MILL</p> <p>DOLBY III LANDFILL REMEDIAL ACTIONS - CELL 1 & 2 COVER SHEET</p>
	<p>JOB NO. _____ ENG. REG. NO. _____ FILE NO. Z-092-4307, 702P</p> <p style="text-align: right;">YB-19176</p>

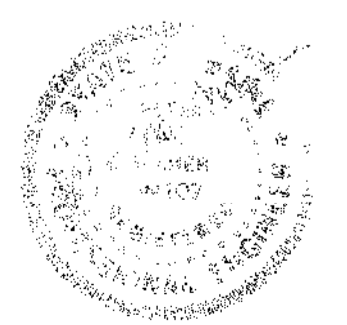
NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

LEGEND

 LIMITS OF CELL 1 REMEDIATION



- NOTES:
1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
 2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.



10/30	RECORD DRAWING
7/8/98	DOLBY DE LANDFILL-CELL 1 TOPOGRAPHIC SURVEY & EXISTING 1978
4/10/98	ISSUED FOR BID - ADDENDUM 1
1/2/98	ISSUED FOR BID
1/2/98	ISSUED FOR BID

SEVERE & MAHER ENGINEERS, INC.
CLAMBERLAND, MAINE

DATE	7/90
ISSUE	1/90
BY	
CHECKED	
APPROVED	



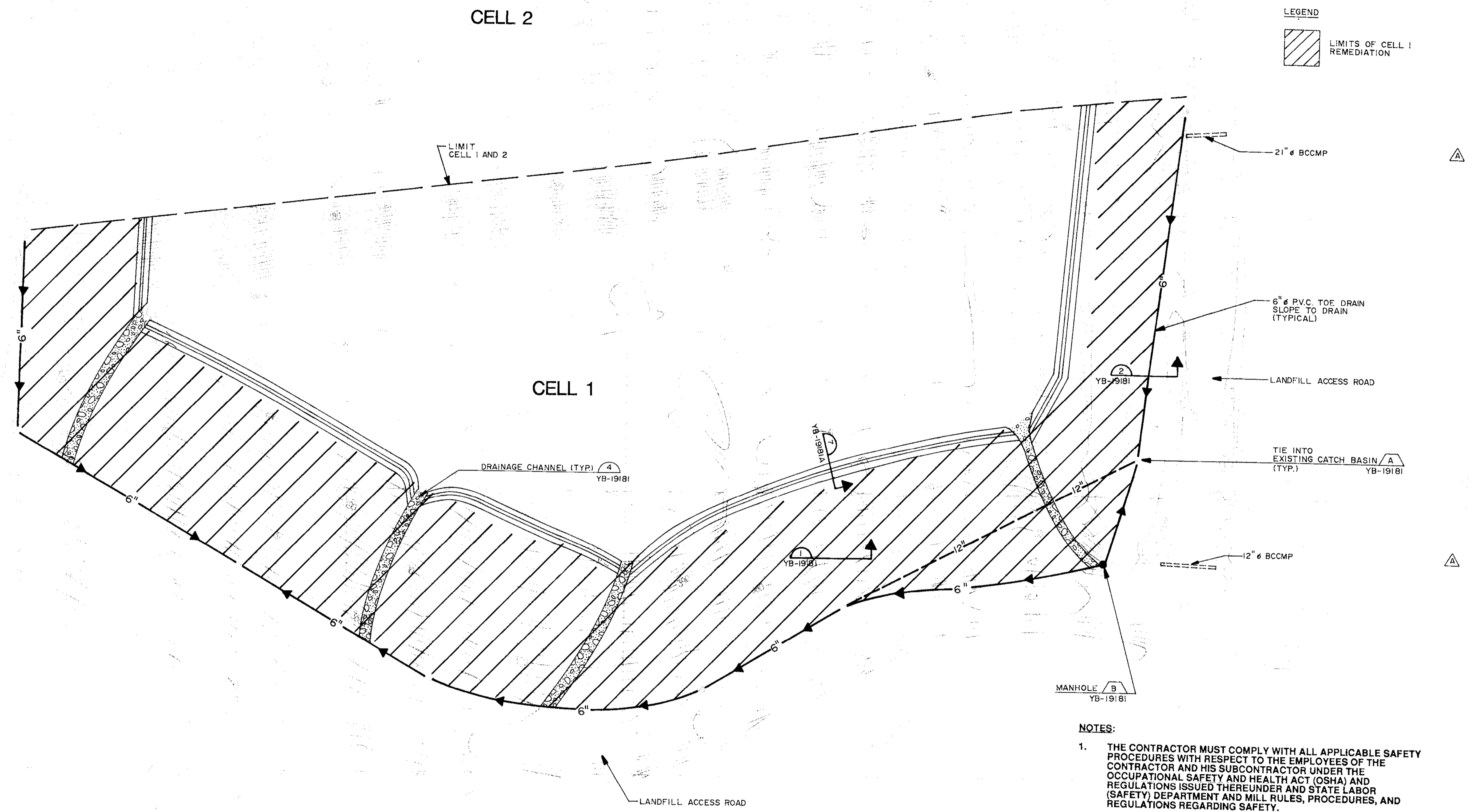
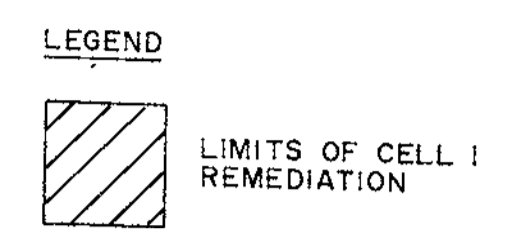
Great Northern Paper
A Division of
International Paper Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY DE LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1

Y8-19179

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.



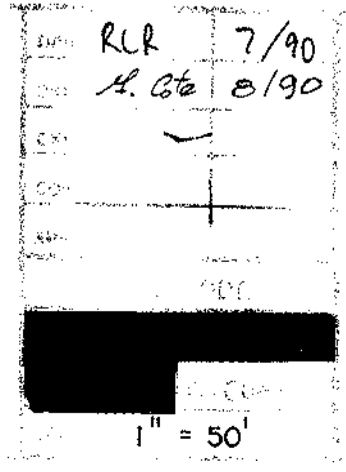
LEACHATE HOLDING POND

- NOTES:
1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
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YB-15798	DOLBY III LANDFILL - CELL 1, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87)	B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1
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SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

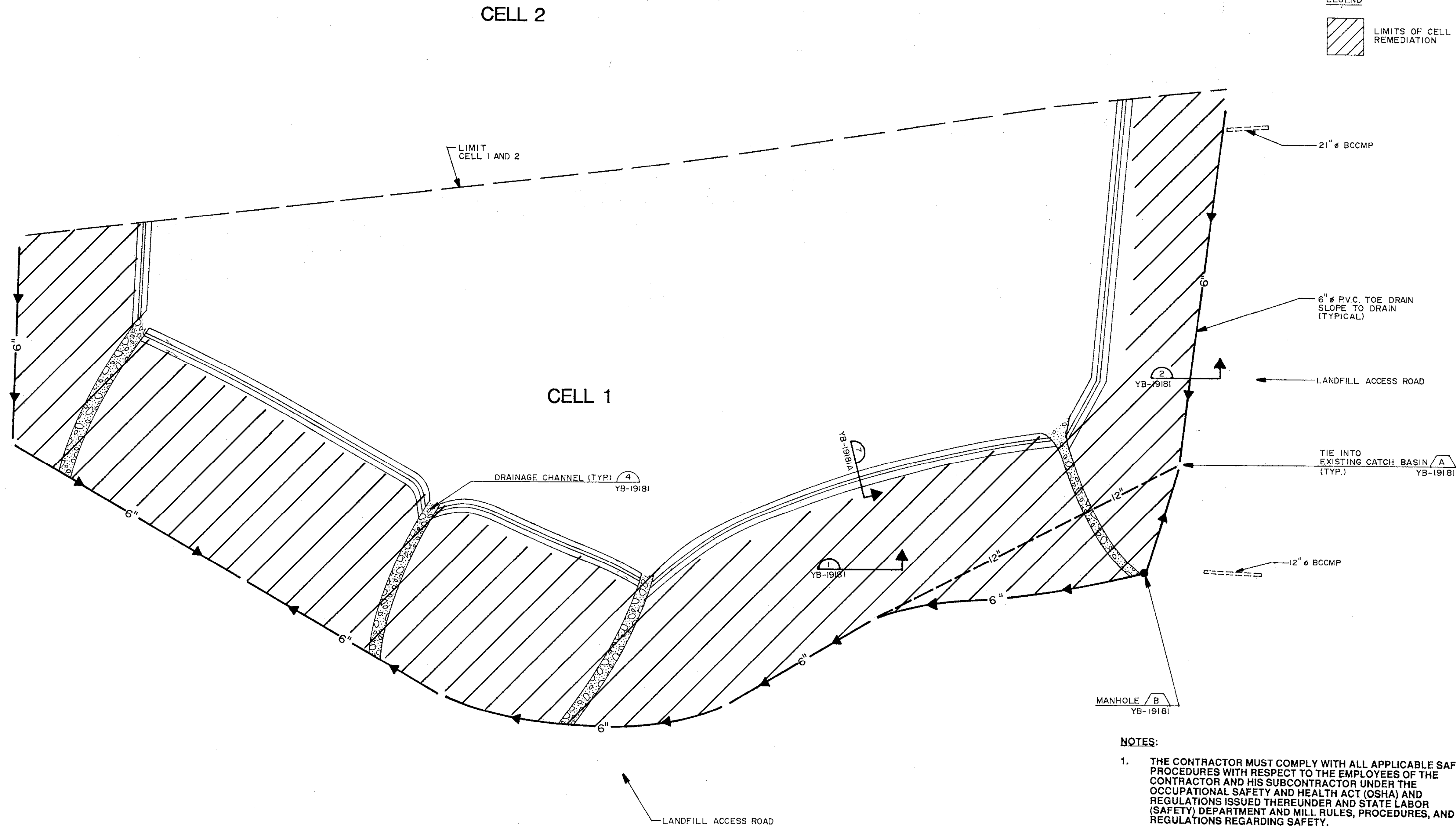
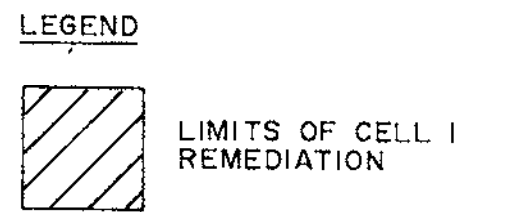


DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1

2-092-4703, 7082

Y 19179A

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.



- NOTES:
1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
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SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

RLR 7/90
M. B. 8/90
1" = 50'

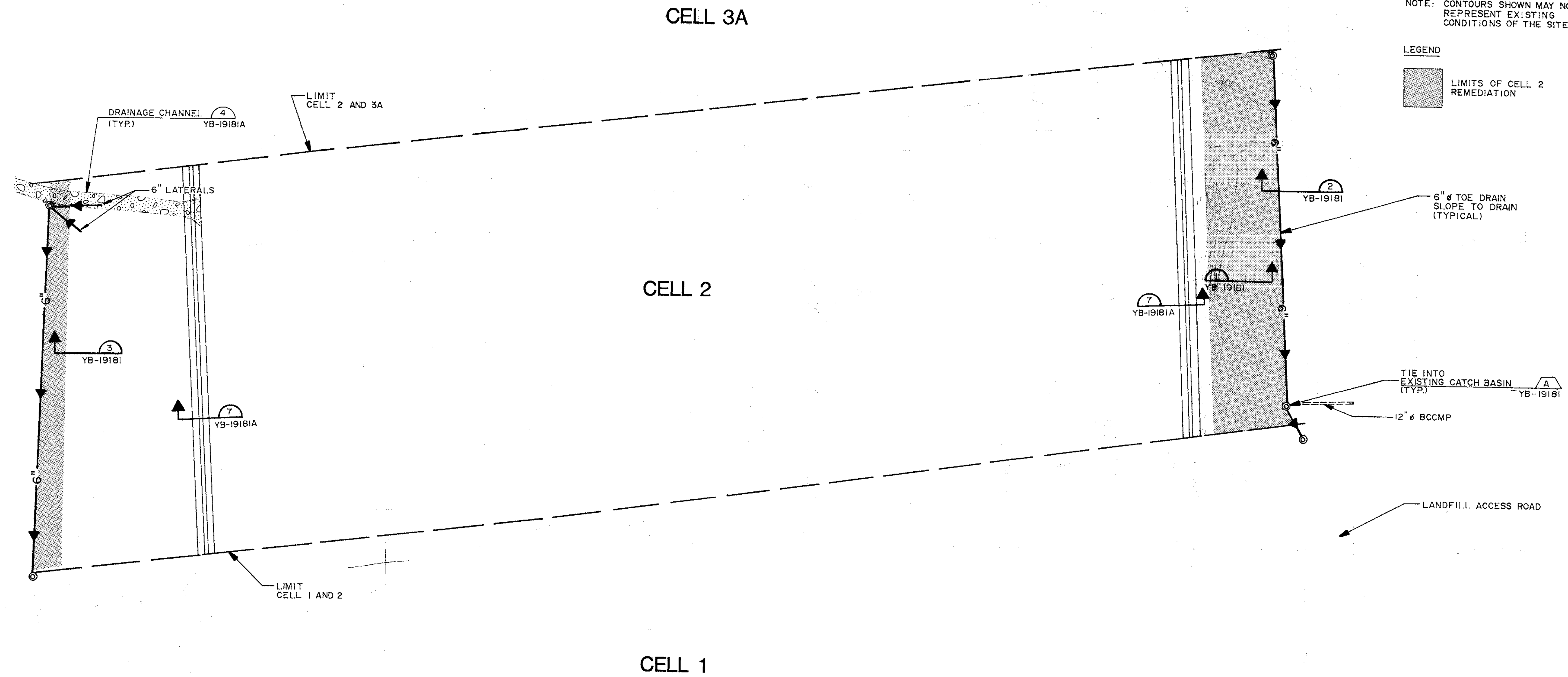
NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
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LEGEND

■ LIMITS OF CELL 2 REMEDIATION



YB-15799 DOLBY III LANDFILL-CELL 2, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87) B A 12/90 RECORD DRAWING 8/20/90 ISSUED FOR BID - ADDENDUM I

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

R.L. 7/90
M.G. 8/90

EAST MILLINOCKET MILL
DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 2

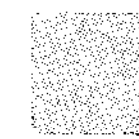
2-092-4703, 7082

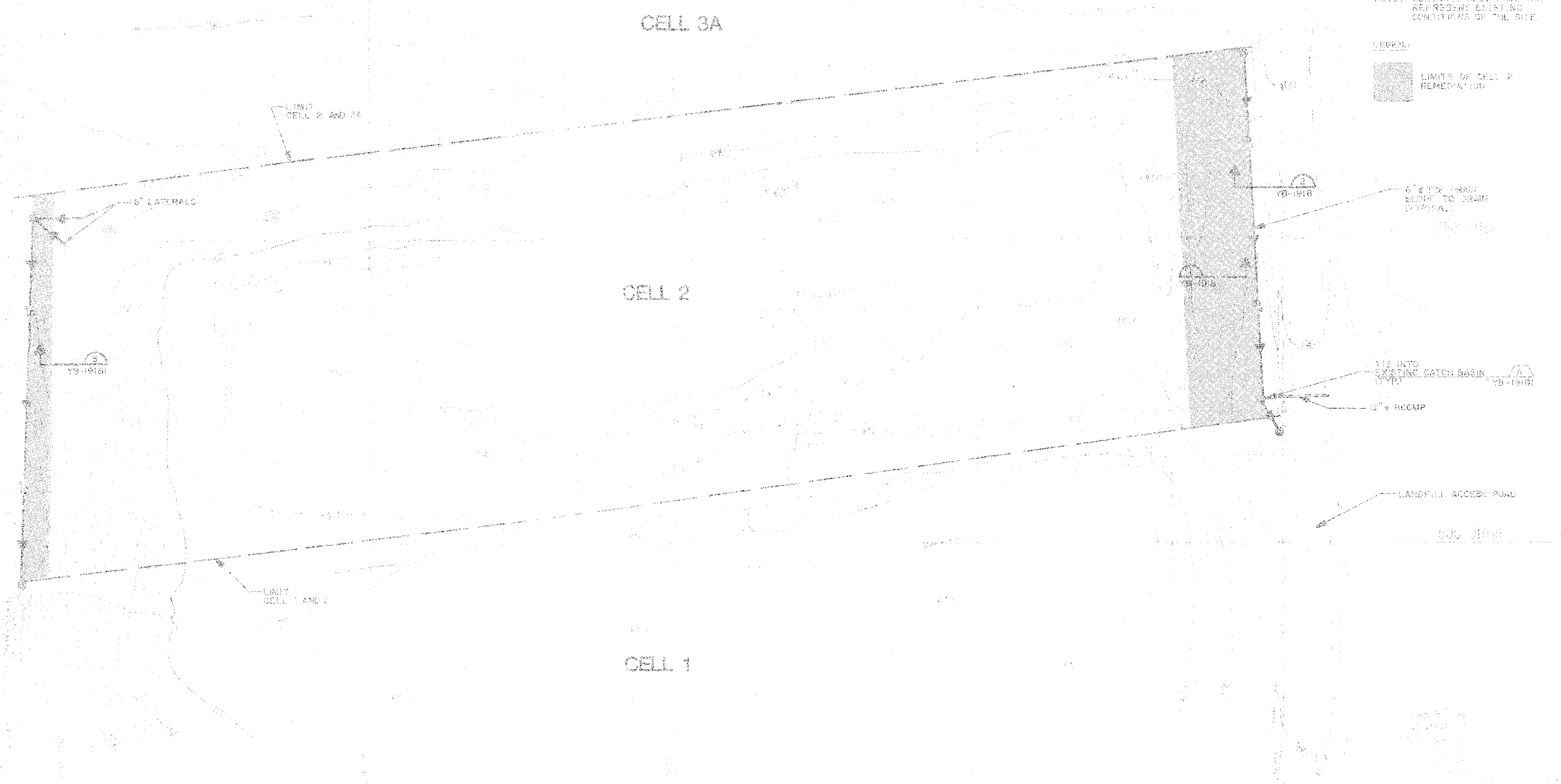
Y -19180A

NOTES

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
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LEGEND
 LIMITS OF CELL 2 REMEDIATION



NO.	DATE	DESCRIPTION	BY	CHKD.
1	8/20/09	ISSUED FOR BID - ADDENDUM 1		
2	12/19/09	RECORD DRAWING		
3	12/19/09	ISSUED FOR BID - ADDENDUM 1		
4	12/19/09	ISSUED FOR BID - ADDENDUM 1		
5	12/19/09	ISSUED FOR BID - ADDENDUM 1		
6	12/19/09	ISSUED FOR BID - ADDENDUM 1		
7	12/19/09	ISSUED FOR BID - ADDENDUM 1		
8	12/19/09	ISSUED FOR BID - ADDENDUM 1		
9	12/19/09	ISSUED FOR BID - ADDENDUM 1		
10	12/19/09	ISSUED FOR BID - ADDENDUM 1		

SEVER & MAHER ENGINEERS, INC.
 CUMBERLAND, MAINE

DATE	12/19/09
SCALE	AS SHOWN
PROJECT	DOLBY MILL LANDFILL
DRAWN BY	J. MAHER
CHECKED BY	J. MAHER
IN CHARGE	J. MAHER

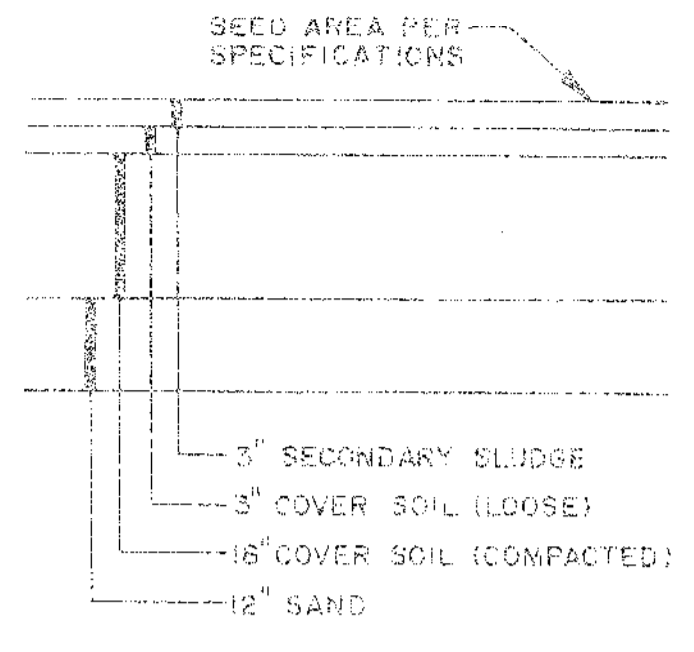


Grand Northern Paper
 100 MILL STREET
 EAST MILLINOCKET, MAINE 04930

**CENTRAL ENGINEERING DEPARTMENT
 EAST MILLINOCKET MILL**

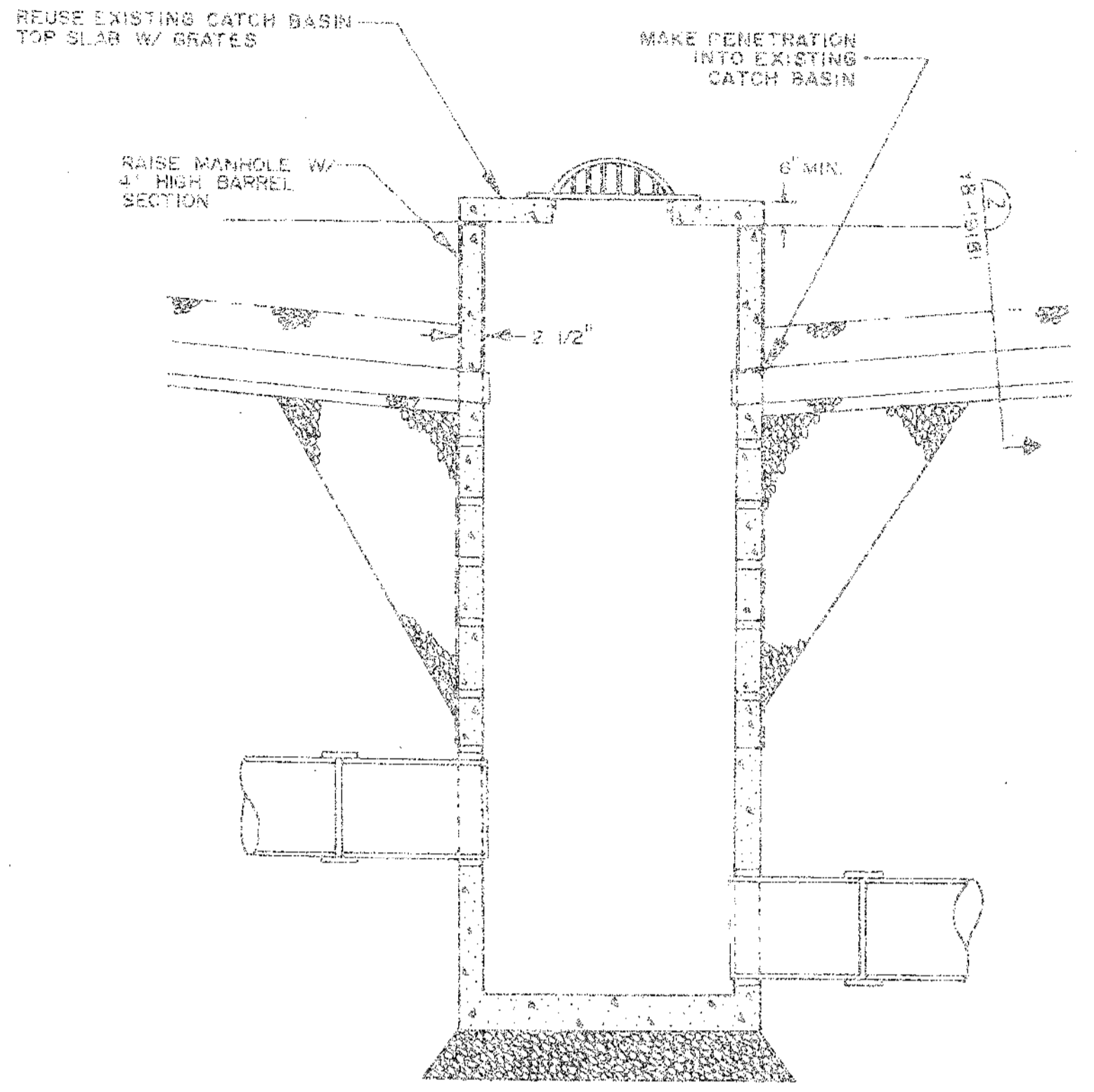
DOLBY MILL LANDFILL
 REMEDIATION ACTIONS - CELL 1 & 2
 EXISTING TOPOGRAPHY PLAN - CELL 2

12/19/09

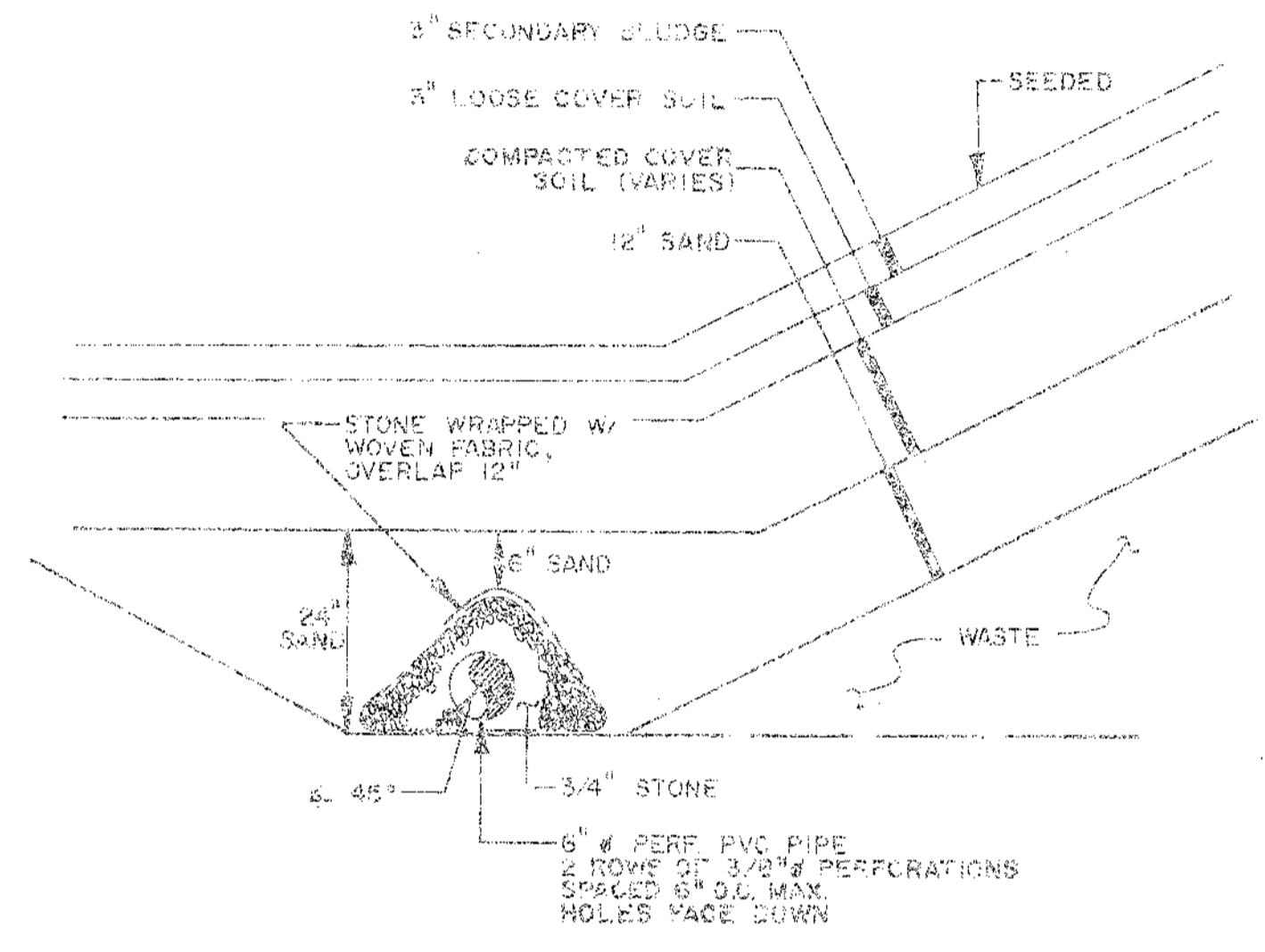
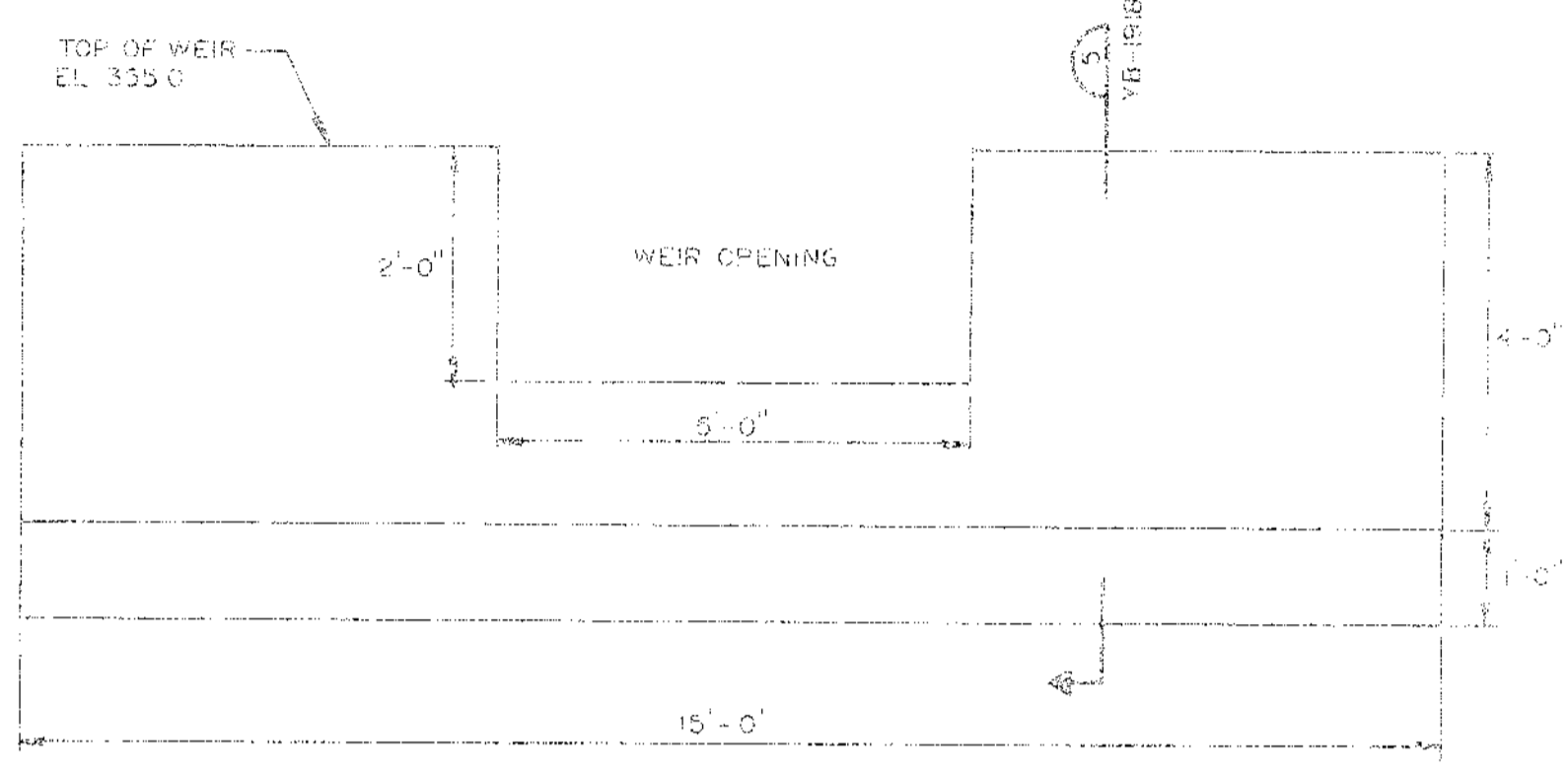


NOTE: SOUTHERN SIDE OF CELL 2 AND ALONG ENTIRE FACE OF CELL 1 AS SHOWN ON EXISTING TOPOGRAPHY PLANS

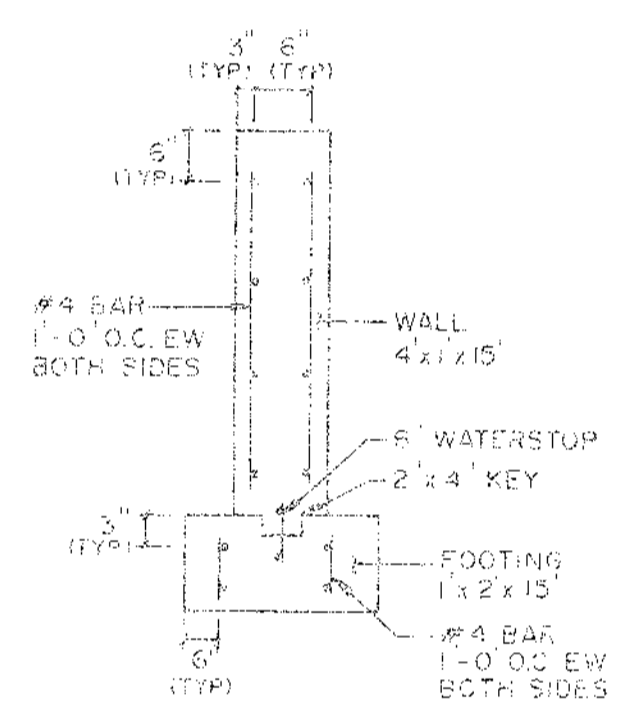
FINAL COVER SECTION 1
SCALE: 1" = 2'-0"



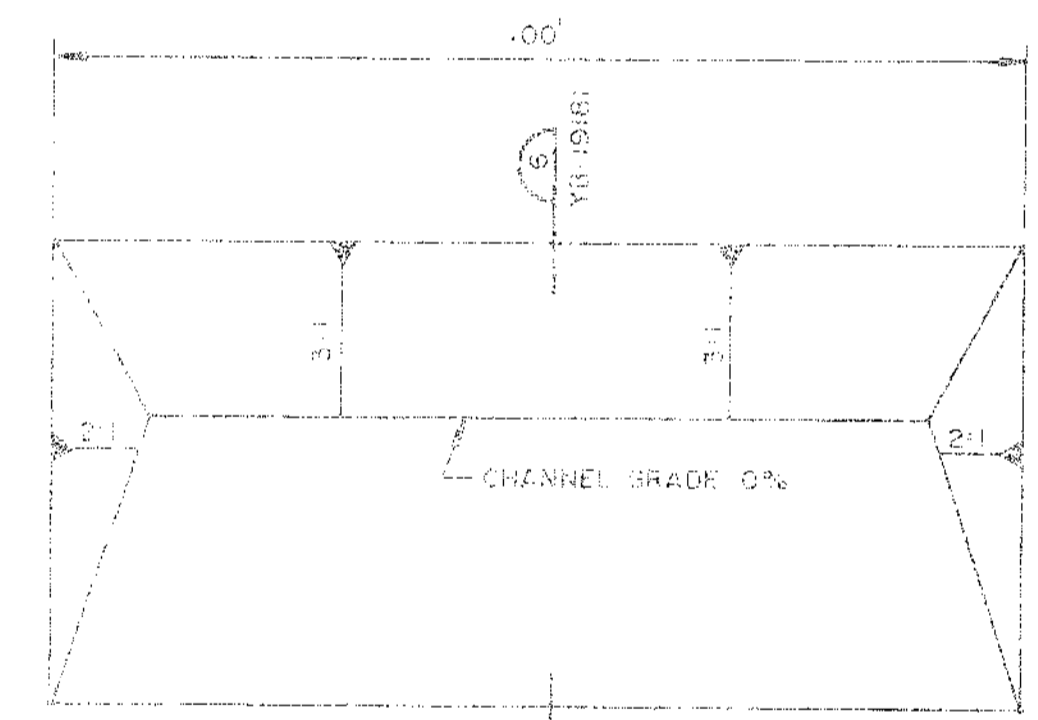
CATCH BASIN A
N.T.S. (EXISTING)
YB-19179
YB-19180



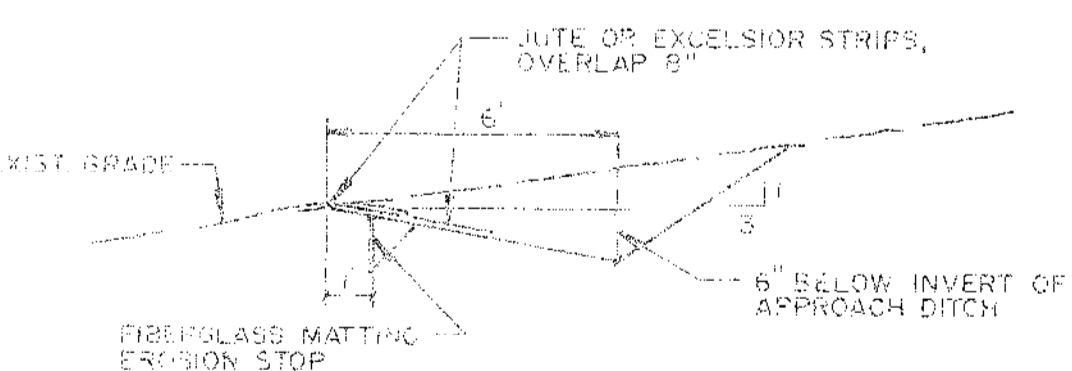
TOE DRAIN SECTION 2
N.T.S.
YB-19179
YB-19180



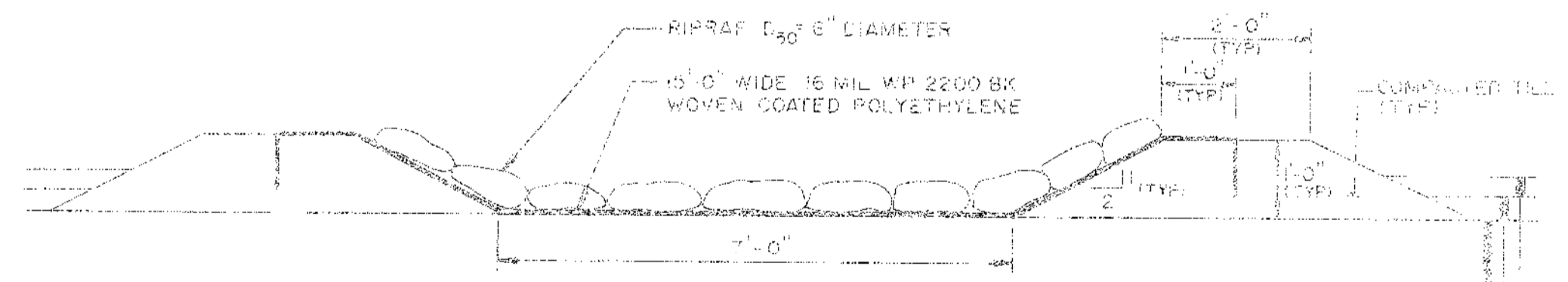
SECTION 5 WEIR DETAIL C
SCALE: 1" = 2'-0"



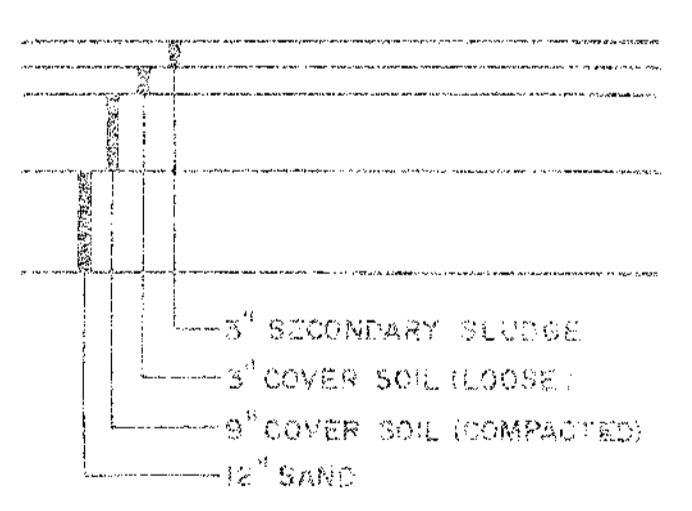
NOTE: LAST 20 FT OF DRAINAGE DITCH NOT TO EXCEED 1% GRADE



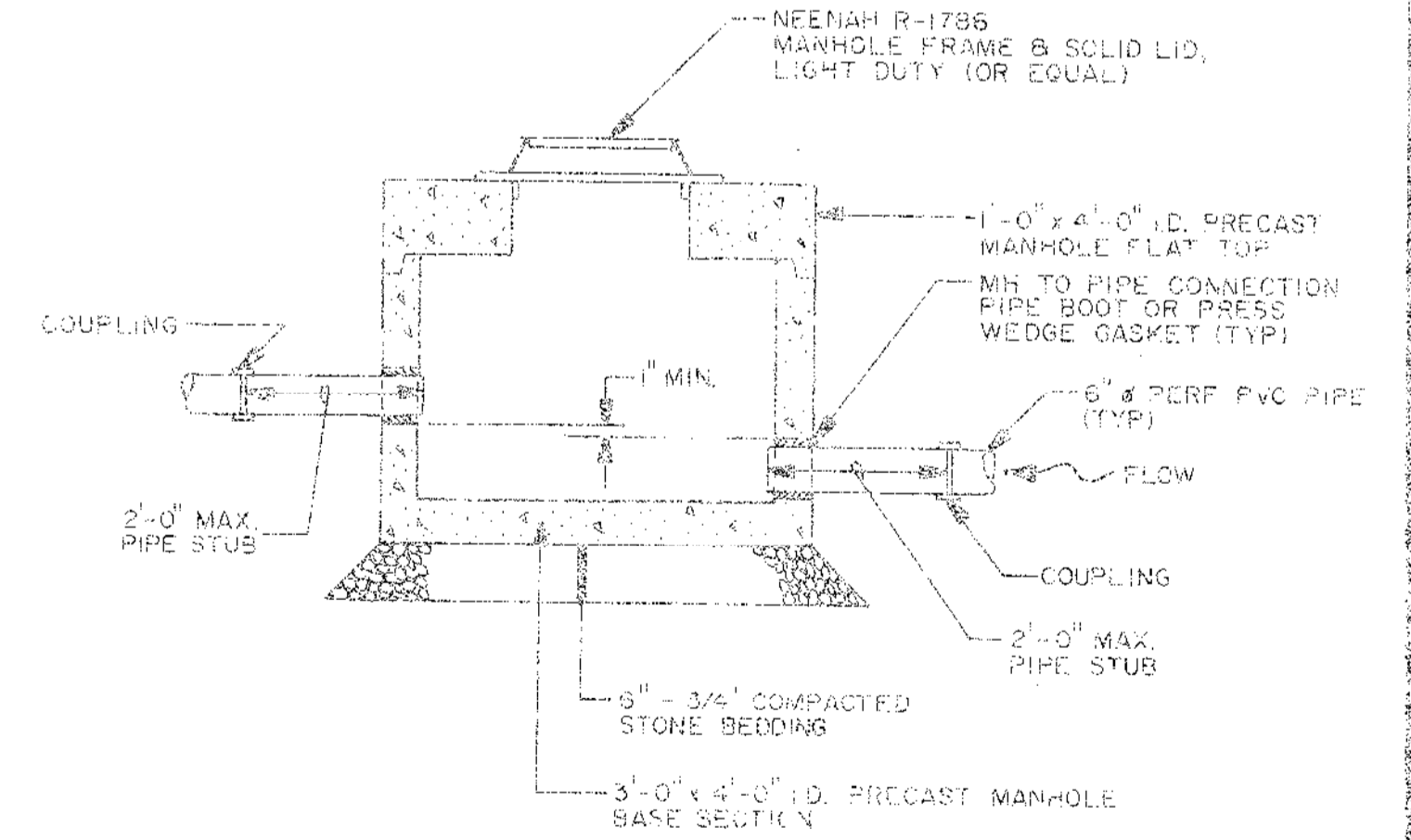
SECTION 6 LEVEL SPREADER D
N.T.S.
YB-19181



SECTION 4 SIDESLOPE DRAINAGE CHANNELS
SCALE: 1" = 2'-0"



NOTE: NORTHERN SIDE OF CELL 2 SHOWN ON EXISTING TOPOGRAPHY PLAN.
INTERMEDIATE SLOPE COVER SECTION 3
SCALE: 1" = 2'-0"



MANHOLE B
SCALE: 1" = 2'-0"



DATE	2/22	7/90
REV	1/00	8/90
DESIGN		
DRAWN		
CHECKED		
ISSUE CODE		
SCALE	AS SHOWN	

1950	RECORD DRAWING
0	ISSUED FOR BID - ADDENDUM 1
0302	REVISION

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE



Great Northern Paper
a subsidiary of
Great Northern National Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY BE LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
SECTIONS & DETAILS

FILE NO. 2-092-4003-7092
YB-19181

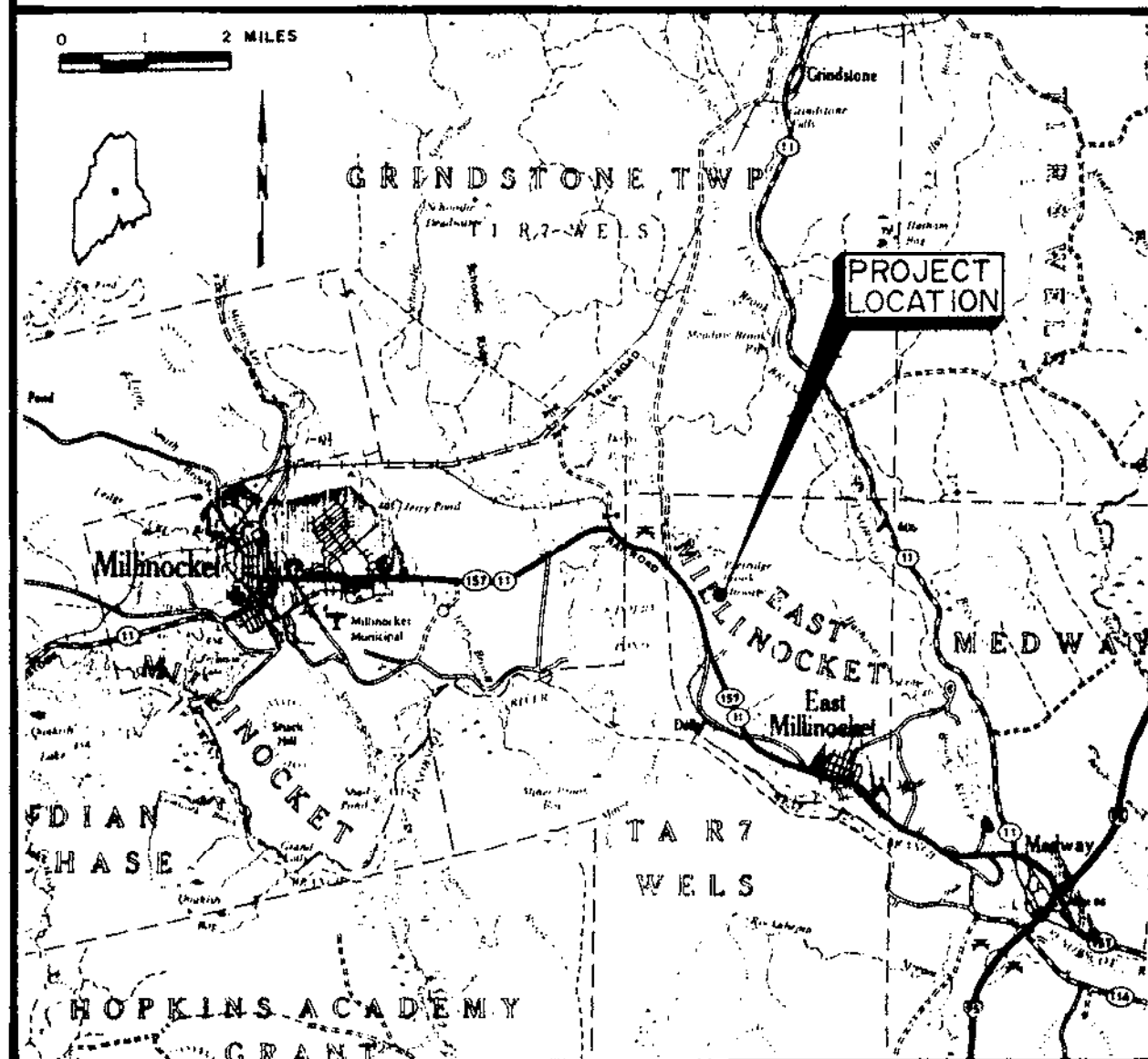
GEORGIA-PACIFIC, NORTHERN PAPERS DIVISION

MILLINOCKET, MAINE

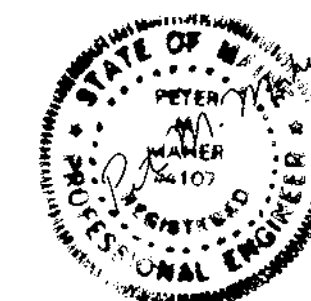
DOLBY III LANDFILL

FINAL COVER OF CELLS 3A, 3B AND 4

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19167
2	SYMBOLS & ABBREVIATIONS	YB-19168
3	SITE LOCATION PLAN	YB-19169
4	EXISTING TOPOGRAPHY PLAN	YB-19170
5	SECTIONS & DETAILS	YB-19171



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990



Great Northern Paper
a company of
Great Northern Nekeosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER - CELLS 3A, 3B, & 4
COVER SHEET

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703,7082

YB-19167

SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (TRUE)		NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		STONE WALL		TP-103		TEST PIT & NUMBER
	DRAINAGE COURSES W/DIRECTION & DITCH		EDGE OF WATER		WATER ELEVATION (GROUND OR SURFACE)		ROCK OUTCROP OR LEDGE				CLEAN OUT STRUCTURES
	CONTOUR LINES		FENCE LINE (WOOD)		FENCE LINE (WIRE)		MANHOLE				WATER VALVE
	SPOT ELEVATION (GRADE)		RETAINING WALL (TYPE)				HYDRANT				TELEPHONE OR POWER POLE
	EXISTING GROUND (PROFILES & SECTIONS)		GUARD RAIL				CATCH BASIN				
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT		BUILDING & STRUCTURES				UNDERGROUND TELEPHONE CABLE/CONDUIT				
	CONSTRUCTION BASELINE		STEPS W/TYPE (WOOD/CONCRETE)				OVERHEAD ELECTRICAL LINE				
	PROPERTY OR DEED LINE (NOT SURVEYED)		SLOPE RATIO (HORIZONTAL TO VERTICAL)				SANITARY SEWER, SIZE & TYPE				
	PROPERTY LINE W/BEARING & DISTANCE		SLOPES (W/SLOPE RATIO)				FORCE MAIN, SIZE & TYPE				
	ROADS, EASEMENTS OR RIGHT OF WAY LINE		EDGE OF TRAVELED WAY (TYPE)				WATER MAIN, SIZE & TYPE				
	BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		CUT OR FILL LINE				STORM DRAIN, SIZE & TYPE				
	SURVEY MONUMENT		CONSTRUCTION LIMIT LINE				UNDERDRAIN, SIZE & TYPE				
	SURVEY IRON (FOUND)		BITUMINOUS PAVEMENT				CULVERT, SIZE & TYPE				
	DRILL HOLE, PK OR STAKE		GRAVEL ROAD				RAILROAD				
	WOODS OR BRUSH LINE		CONCRETE				SILTATION FENCE				
	INDIVIDUAL TREE (DECIDUOUS)		TEST BORING, MONITORING WELL OR PROBE & NUMBER								
	INDIVIDUAL TREE (CONIFEROUS)										
	TREE, TO BE REMOVED										
	MARSH AREA										

MATERIAL SPECIFICATIONS

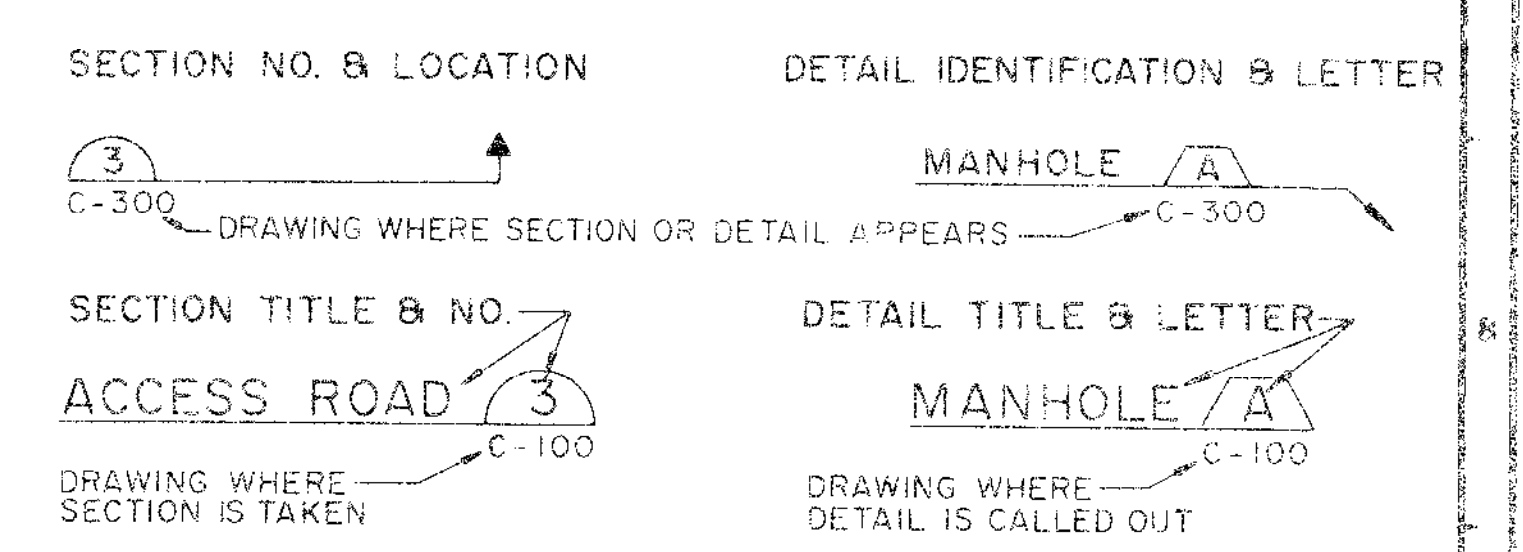
FINAL COVER

SAND	MDOT SPECIFICATION 703.06b, TYPE F (AGGREGATE FOR SAND LEVELING) PERMEABILITY $\geq 1 \times 10^{-5}$ cm/sec
COVER SOIL	WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE, NO STONES GREATER THAN 4 INCHES IN DIAMETER (COMPACTED 95 PERCENT STANDARD PROCTOR)
TOP COVER SOIL	A MIXTURE OF WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE AND SECONDARY SLUDGE, NO STONES GREATER THAN 3 INCHES IN DIAMETER
SLUDGE	HOMOGENEOUS SECONDARY SLUDGE AS RECEIVED FROM MILL.

MATERIAL TESTING SCHEDULE

BORROW SOURCE	TEST	FREQUENCY
COVER SOIL SAND SAND	GRAIN SIZE	4 TEST
	GRAIN SIZE	2 TEST
	PERMEABILITY	2 TEST
ON-SITE		
COVER SOIL SAND SAND	GRAIN SIZE	1/2000 CY
	GRAIN SIZE	4 TEST
	PERMEABILITY	1/5000 CY
TEST METHODS		
GRAIN SIZE	ASTM D422	
PERMEABILITY	ASTM D2434	

VIEW MARKERS & IDENTIFICATION



ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.F.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	C.E.M. LIN.	CEMENT LINED	EA	EACH	HOPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPROX	APPROXIMATE	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	U.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
ASB	ASBESTOS	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR *	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASPH	ASPHALT	CONC	CONCRETE	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONSTR	CONSTRUCTION	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AUTO	AUTOMATIC	CONTR	CONTRACTOR	EXIST	EXISTING	LD	LEACHATE COLLECTION	P.O.T.	POINT OF TANGENT	W/	WITH
ALX	AUXILIARY	CTR	CENTER	F.G.	FIBERGLASS	LD	LEAK DETECTION	PERF	PERFORATED	W/O	WITHOUT
AVE	AVENUE	CY	CUBIC YARD	FBRGL	FIBERGLASS	LTN. FT.	LINEAR FEET	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FDN	FOUNDATION	LOC	LOCATION	PVC	POLYVINYL CHLORIDE		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPTH	FLG	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DIAMETER	FT OR'	FEET	MATI	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DUCTILE IRON	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	Gauge	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		



DATE	BY	CHKD	APPVD	JOB NO.

SEVEE & MAHER ENGINEERS, INC.
SUMBERLAND, MAINE

DRW	2/16	7/90
CKD	2/16	5/90
APPVD		
ISSUE CODE	B - BIDS	
SCALE		

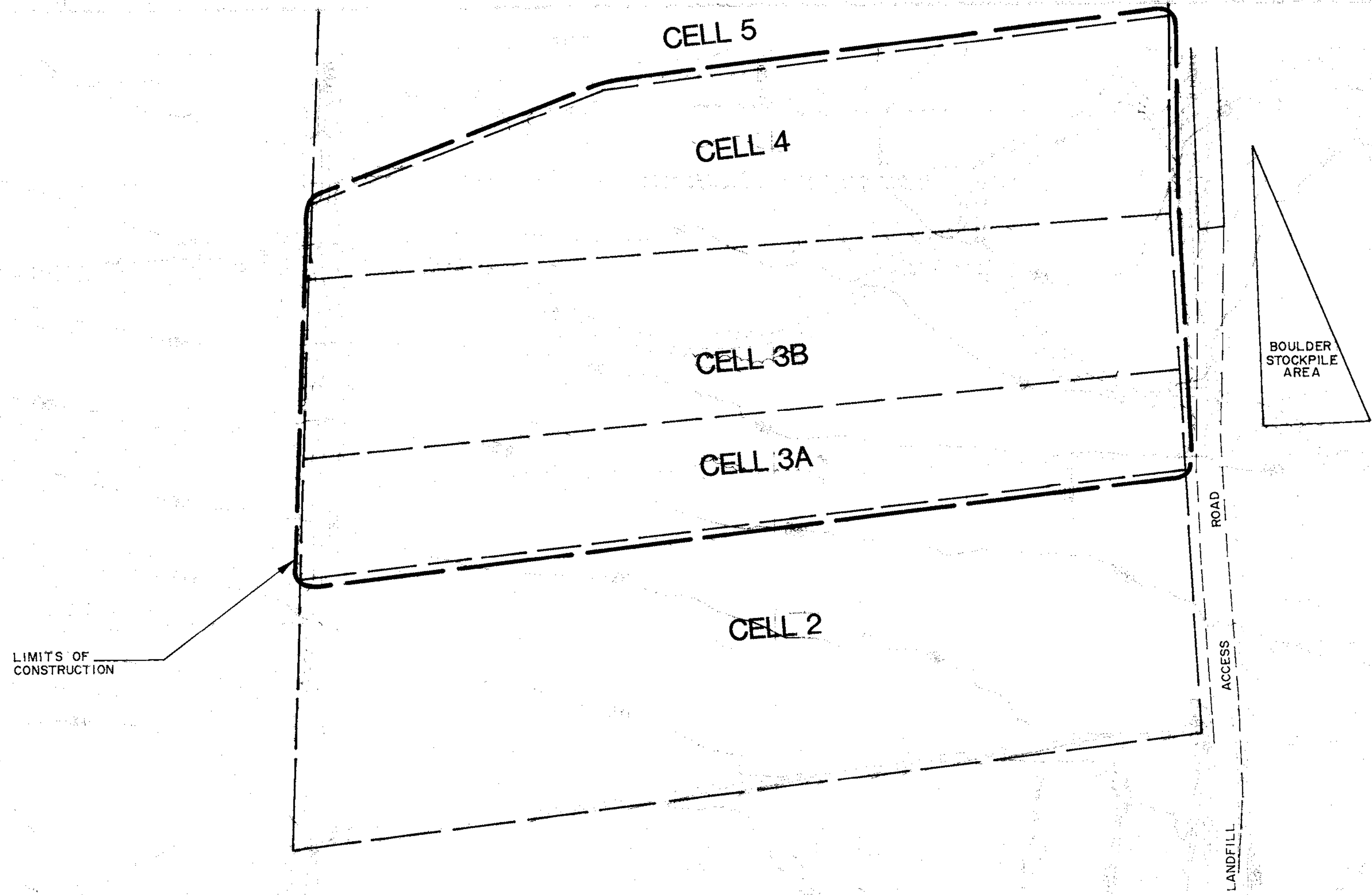


CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER - CELLS 3A, 3B, & 4
SYMBOLS & ABBREVIATIONS

JOB NO. _____
ENGR. NO. _____
FILE NO. 2-092-4703, 7042

YB-19168



LIMITS OF CONSTRUCTION

BOULDER STOCKPILE AREA

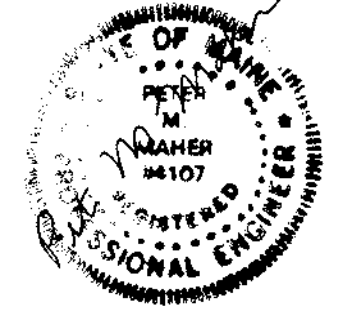
ROAD
ACCESS
LANDFILL

LEACHATE HOLDING POND

ROAD

BENCH MARK
BRASS PLUG EL. 356.99' N663871.733
E473716.059

WET WELL & PUMP STATION



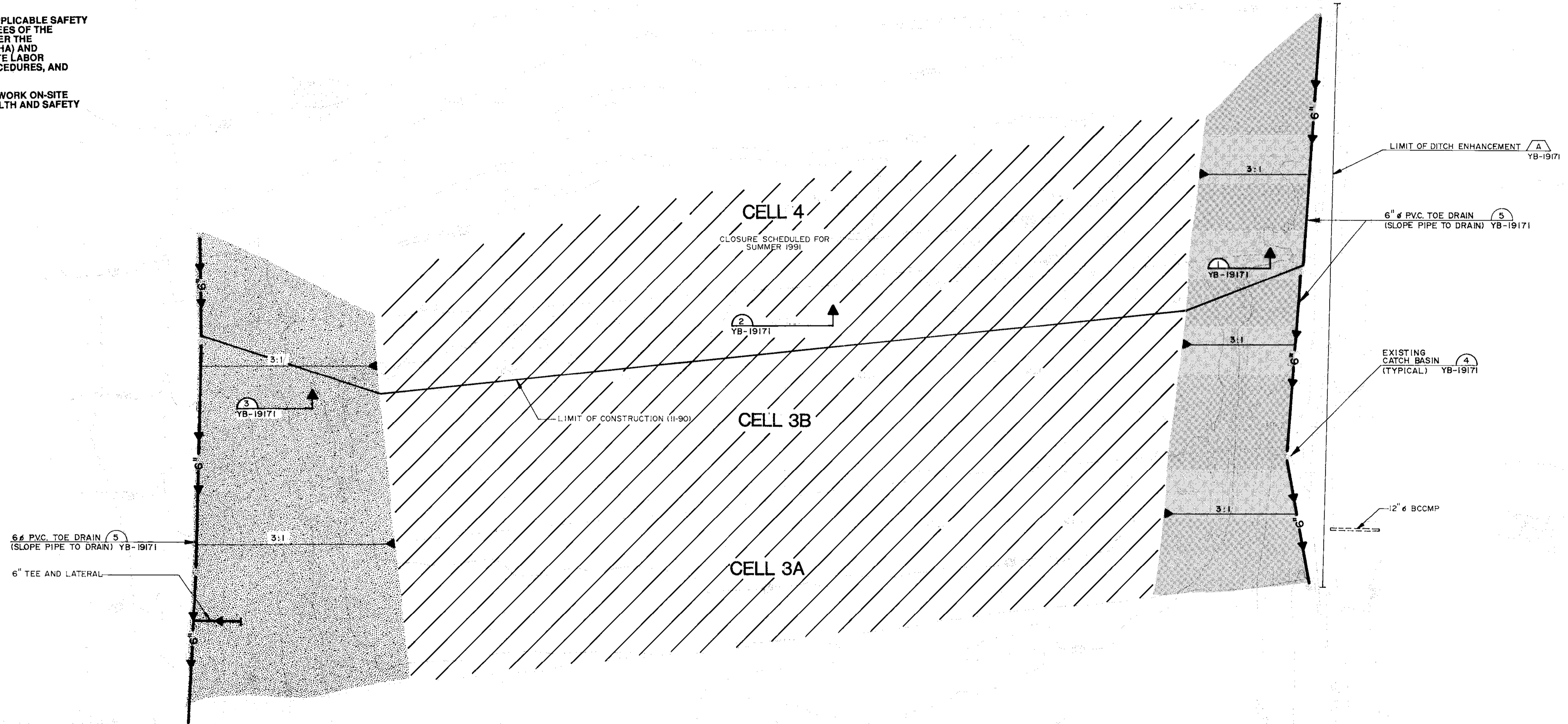
RCL 7/90
A. Cole 8/90



NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
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YB-16476 DOLBY III LANDFILL-CELLS 3A, 3B, & 4 TOPO. SURVEY & DIGITIZ.(4/18/90) B A 8/20/90 ISSUED FOR BID-ADDENDUM I

12/90 RECORD DRAWING

PKC

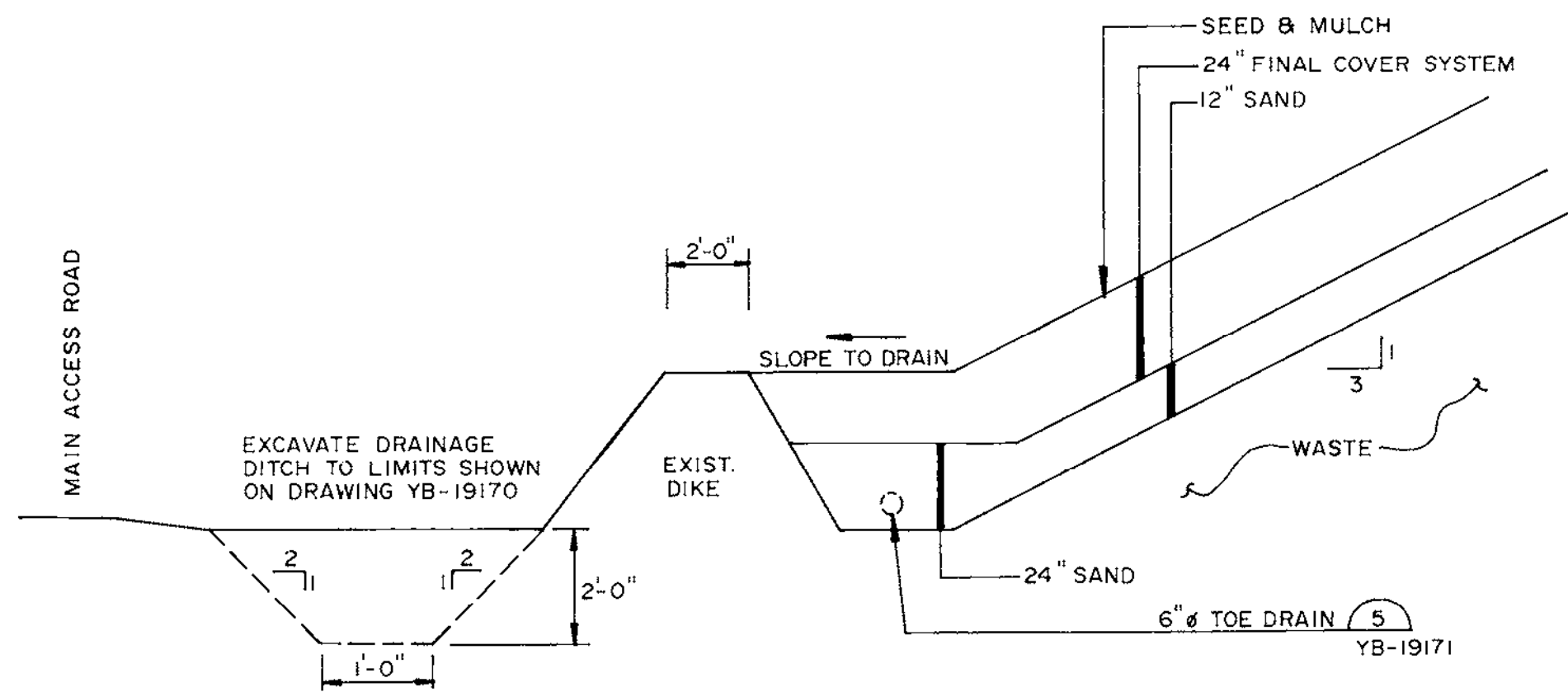
CUMBERLAND, MAINE

RLR 7/90
 At Cont. 8/190
 1" = 50'

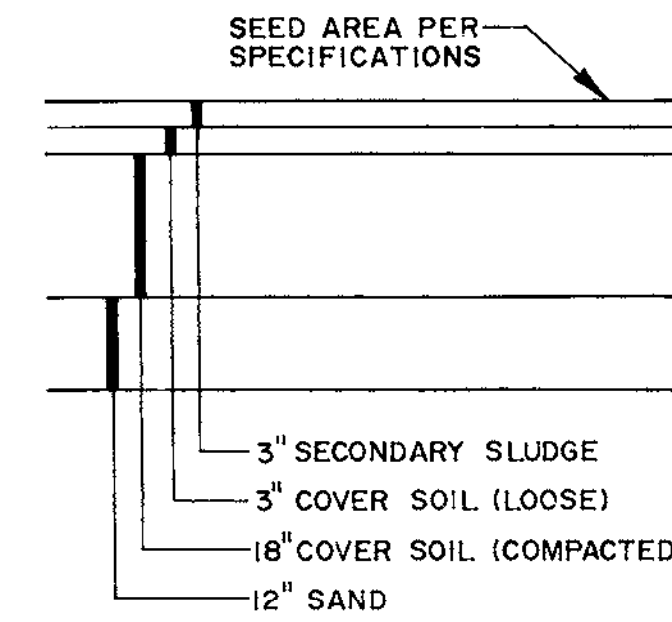
EAST MILLINOCKET MILL
 DOLBY III LANDFILL
 FINAL COVER-CELLS 3A, 3B, & 4
 EXISTING TOPOGRAPHY PLAN

2-092-4703,7082

YB-19170

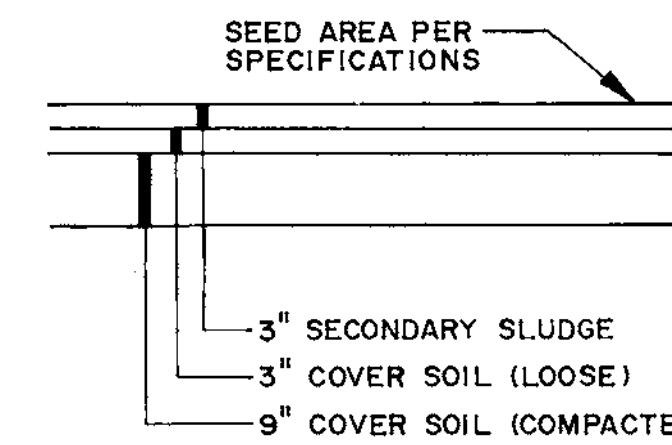


DITCH ENHANCEMENT DETAIL
N.T.S. YB-19170



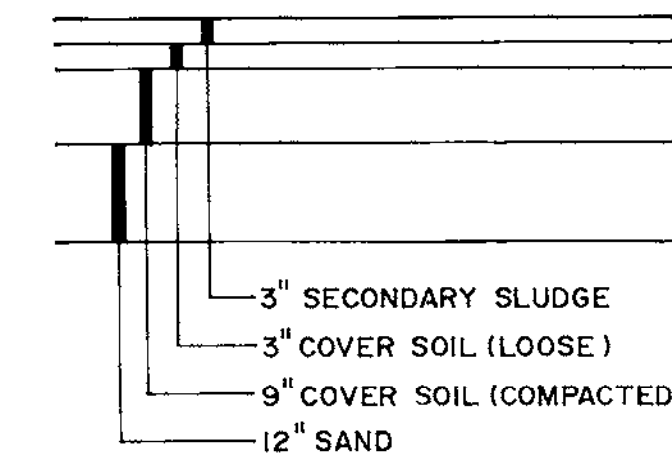
NOTE: SOUTHERN SIDE OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

FINAL COVER SECTION
SCALE: 1" = 2'-0" YB-19170



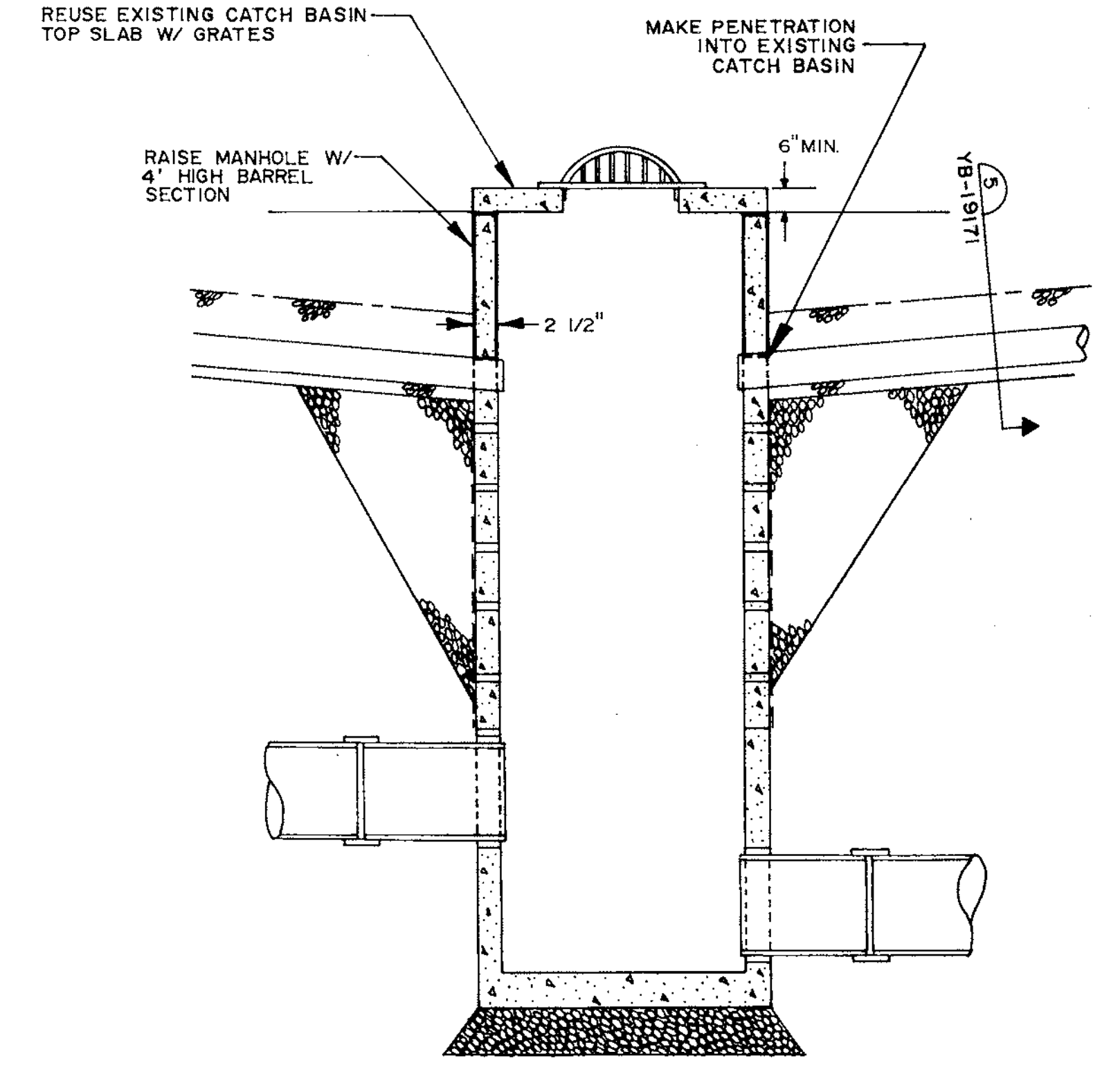
NOTE: TOP OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE TOP COVER SECTION
SCALE: 1" = 2'-0" YB-19170

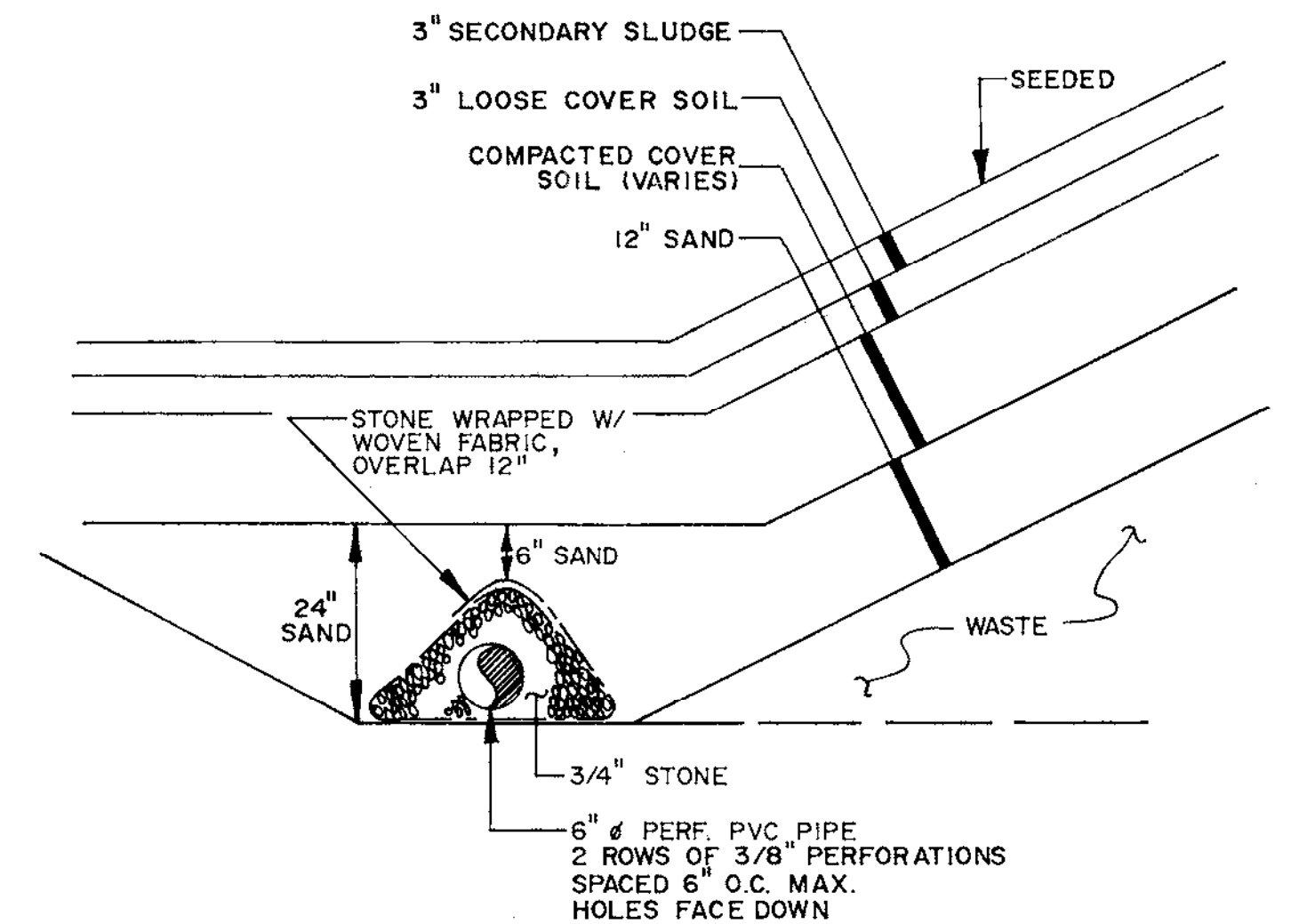


NOTE: NORTHERN SIDE OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE SLOPE COVER SECTION
SCALE: 1" = 2'-0" YB-19170



CATCH BASIN
N.T.S. (EXISTING) YB-19170



SECTION 5
N.T.S. YB-19170 YB-19171



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.	JOB NO.
				12/90	RECORD DRAWING					
		B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1					

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRN	RLR	7/90
CKD	A. Cole	8/90
CKD		
CORR		
APPVD		
ISSUE CODE		
C-CONST		
SCALE AS SHOWN		



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER-CELLS 3A, 3B, & 4
SECTIONS & DETAILS

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703, 7082

YB-19171

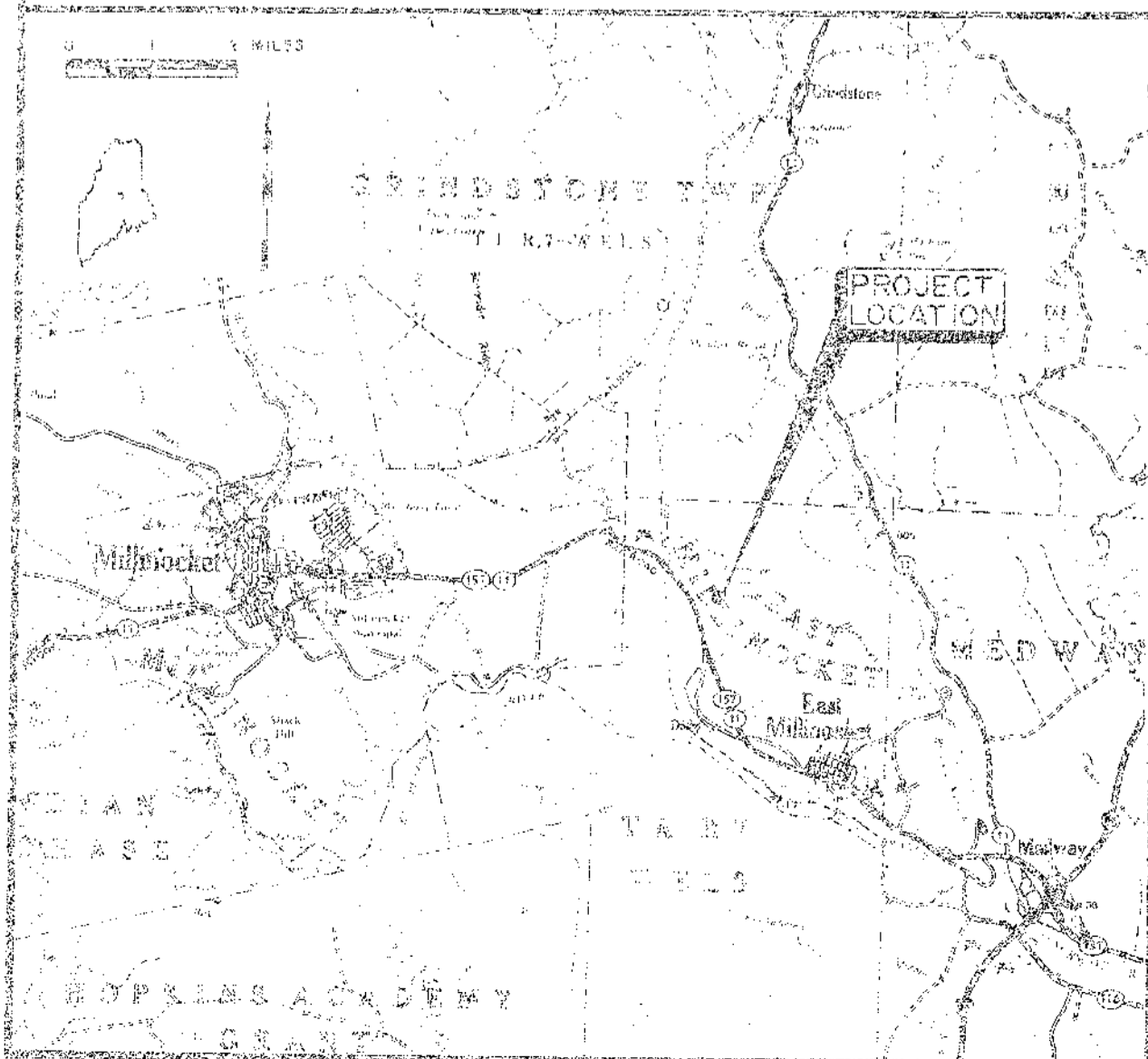
GREAT NORTHERN PAPER CO.

MILLINOCKET, MAINE

DOLBY III LANDFILL


CELL 5 CONSTRUCTION

SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19086
2	SYMBOLS & ABBREVIATIONS	YB-19087
3	SITE LOCATION PLAN SHEET 1 OF 2	YB-19088
4	SITE LOCATION PLAN SHEET 2 OF 2	YB-19088
5	SITE DEVELOPMENT PLAN	YB-19089
6	SECTIONS & DETAILS	YB-19090
7	FINAL GRADING PLAN	YB-19091 (N.I.T.C.)



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990



 <p>Great Northern Paper a company of Great Northern Nekoosa Corporation</p>	<p>CENTRAL ENGINEERING DEPARTMENT</p> <hr/> <p>DOLBY III LANDFILL CELL 5 COVER SHEET</p>
	<p>DWG. NO. 94960 ENG. REG. NO. _____ FILE NO. 2-092-4103.2082</p> <p style="text-align: right;">YB-19086</p>

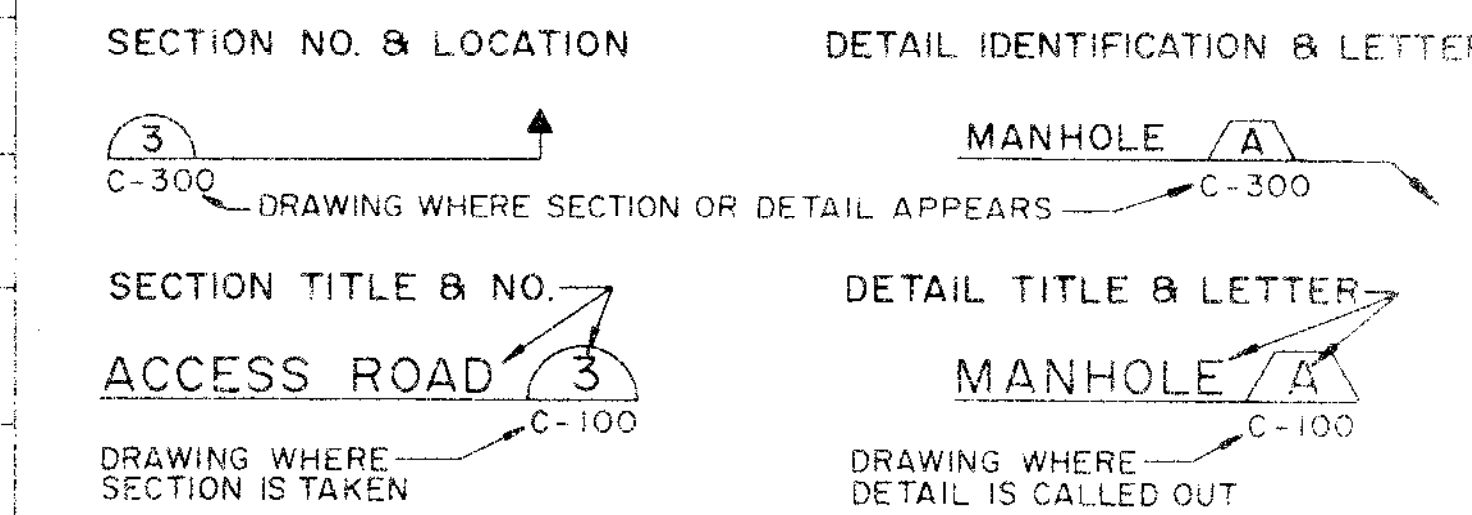
SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (TRUE)		STONE WALL		TP-103		TP-103		TEST PIT & NUMBER		
	NORTH ARROW (MAGNETIC)		DRAINAGE COURSES W/DIRECTION & DITCH						CLEAN OUT STRUCTURES		
	NORTH ARROW (PLAN NORTH)		EDGE OF WATER						MANHOLE		
	CONTOUR LINES		WATER ELEVATION (GROUND OR SURFACE)						WATER VALVE		
	SPOT ELEVATION (GRADE)		ROCK OUTCROP OR LEDGE						HYDRANT		
	EXISTING GROUND (PROFILES & SECTIONS)		FENCE LINE (WOOD)						TELEPHONE OR POWER POLE		
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT		FENCE LINE (WIRE)						CATCH BASIN		
	CONSTRUCTION BASELINE		RETAINING WALL (TYPE)						UNDERGROUND GAS MAIN & SIZE		
	PROPERTY OR DEED LINE (NOT SURVEYED)		GUARD RAIL						UNDERGROUND TELEPHONE CABLE/CONDUIT		
	PROPERTY LINE W/BEARING & DISTANCE		BUILDING & STRUCTURES						UNDERGROUND ELECTRIC CABLE/CONDUIT		
	ROADS, EASEMENTS OR RIGHT OF WAY LINE		STEPS W/TYPE (WOOD/CONCRETE)						OVERHEAD ELECTRICAL LINE		
	BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		SLOPE RATIO (HORIZONTAL TO VERTICAL)						SANITARY SEWER, SIZE & TYPE		
	SURVEY MONUMENT		SLOPES (W/SLOPE RATIO)						FORCE MAIN, SIZE & TYPE		
	SURVEY IRON (FOUND)		EDGE OF TRAVELED WAY (TYPE)						WATER MAIN, SIZE & TYPE		
	DRILL HOLE, PK OR STAKE		CUT OR FILL LINE						STORM DRAIN, SIZE & TYPE		
	WOODS OR BRUSH LINE		CONSTRUCTION LIMIT LINE						UNDERDRAIN, SIZE & TYPE		
	INDIVIDUAL TREE (DECIDUOUS)		BITUMINOUS PAVEMENT						CULVERT, SIZE & TYPE		
	INDIVIDUAL TREE (CONIFEROUS)		GRAVEL ROAD						RAILROAD		
	TREE, TO BE REMOVED		CONCRETE						SILTATION FENCE		
	MARSH AREA		TEST BORING, MONITORING WELL OR PROBE & NUMBER								

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	CEM. LIN.	CEMENT LINED	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONSTR	CONSTRUCTION	EXIST	EXISTING	LB	POUND	P.O.T.	POINT OF TANGENT	W	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LIN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPTH	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DIAMETER	FT OR'	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

VIEW MARKERS & IDENTIFICATION



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APP'D	JOB NO.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

ORIN	RCL	5/90
CHKD	SKR	5/90
APP'D	BAP	5/90
ISSUE CODE		
B-BIDS		
SCALE		

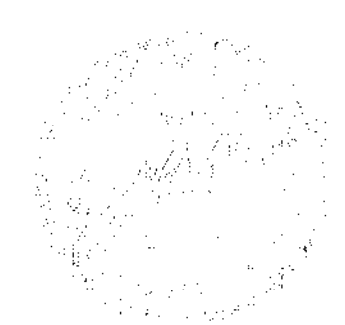
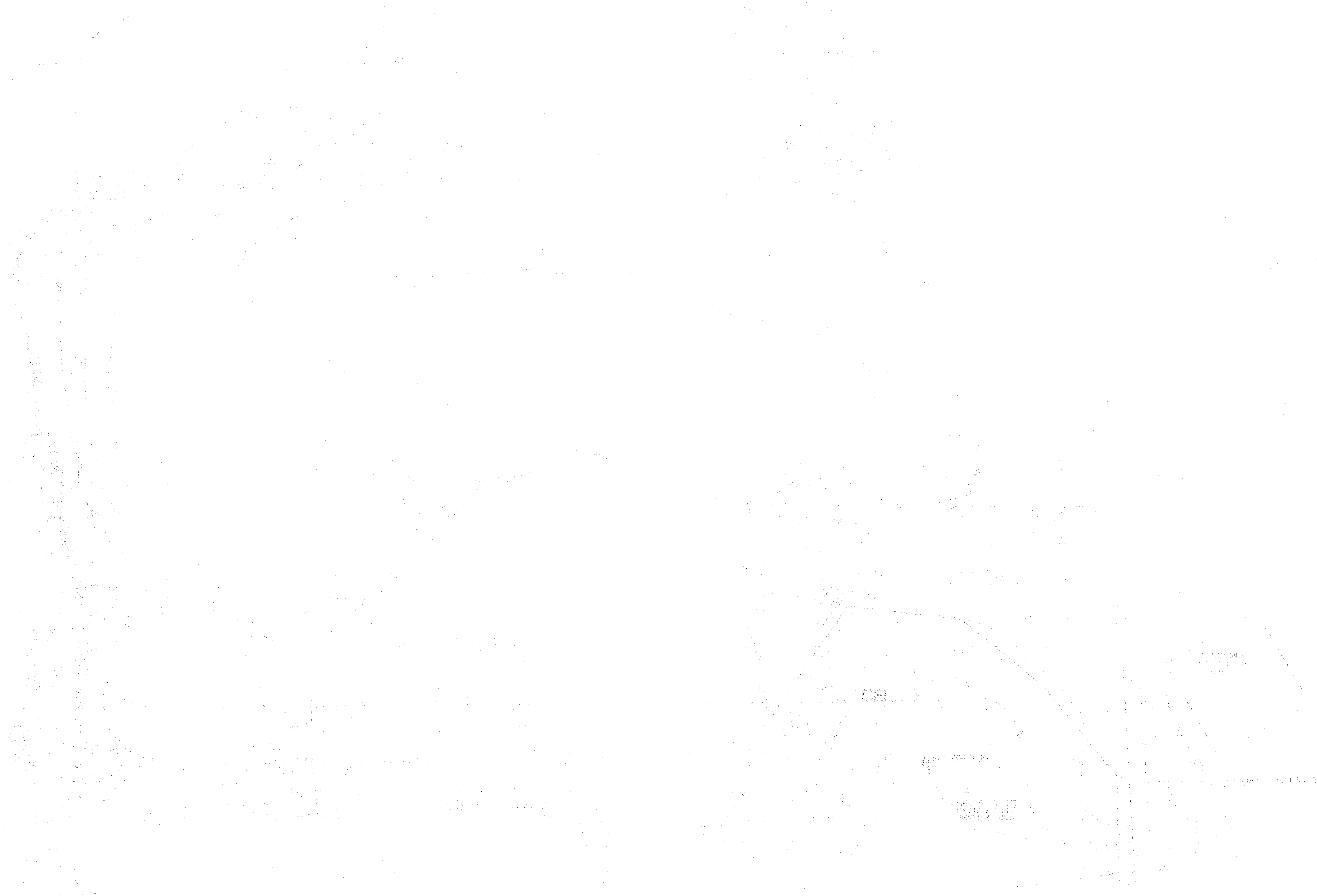


CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
SYMBOLS & ABBREVIATIONS

JOB NO. 94545
 ENG. REQ. NO. 2-092-4703.7082
 FILE NO. 2-092-4703.7082

YB-19087



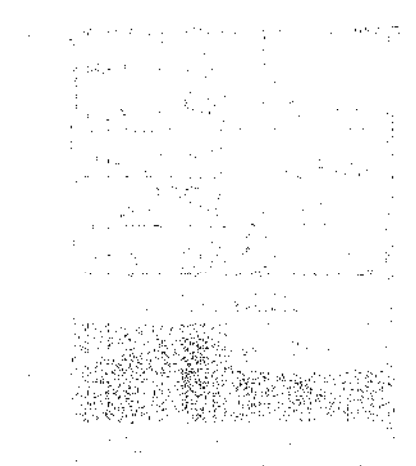
1. The site plan is based on the data provided by the client and is not to be used for any other purpose without the written consent of the engineer.

2. The engineer is not responsible for the accuracy of the data provided by the client.

3. The engineer is not responsible for the accuracy of the data provided by the client.

4. The engineer is not responsible for the accuracy of the data provided by the client.

CIVIL ENGINEERING CO.,
 1234567890



1. The site plan is based on the data provided by the client and is not to be used for any other purpose without the written consent of the engineer.

2. The engineer is not responsible for the accuracy of the data provided by the client.

1. The site plan is based on the data provided by the client and is not to be used for any other purpose without the written consent of the engineer.

2. The engineer is not responsible for the accuracy of the data provided by the client.

2

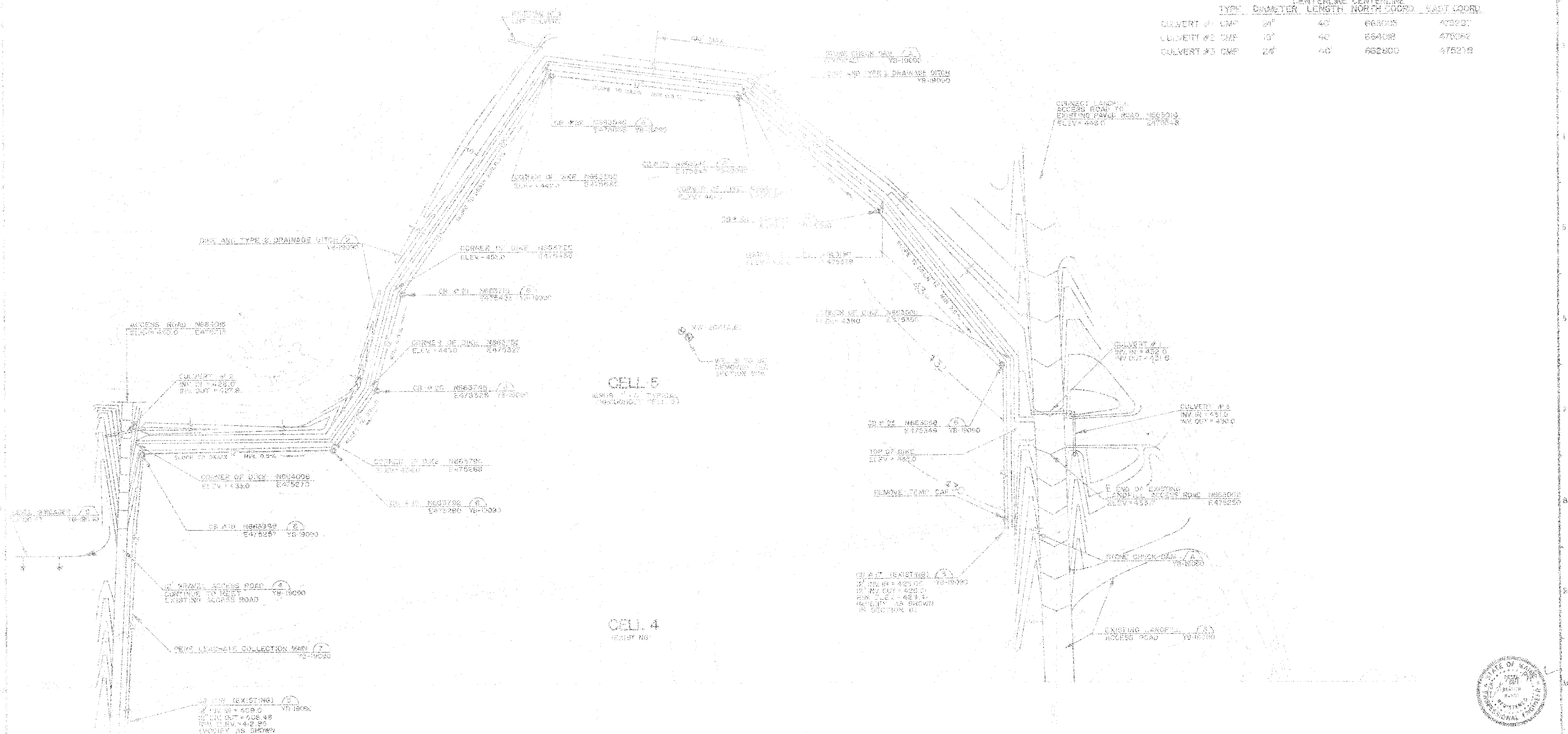
OPERATION NOTES

CELL 4

- 1 REMOVE MINIMUM 15 FT LONG DIKE SECTIONS SEPARATING CB#19 AND CB#21 FROM CELL 6.

CULVERT SCHEDULE

TYPE	DIAMETER	MIDPOINT CENTERLINE LENGTH	MIDPOINT CENTERLINE NORTH COORD.	EAST COORD.
CULVERT #1 CMP	24"	40'	668015	475207
CULVERT #2 CMP	18"	40'	668018	475202
CULVERT #3 CMP	24"	40'	668000	475218



NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMITS	10/15/88	JM	SM
2	REVISED FOR CONSTRUCTION	11/15/88	JM	SM
3	REVISED FOR AS-BUILT	01/15/89	JM	SM

DEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

Scale: 1" = 50'
Date: 10/15/88
Issue Code: E-100

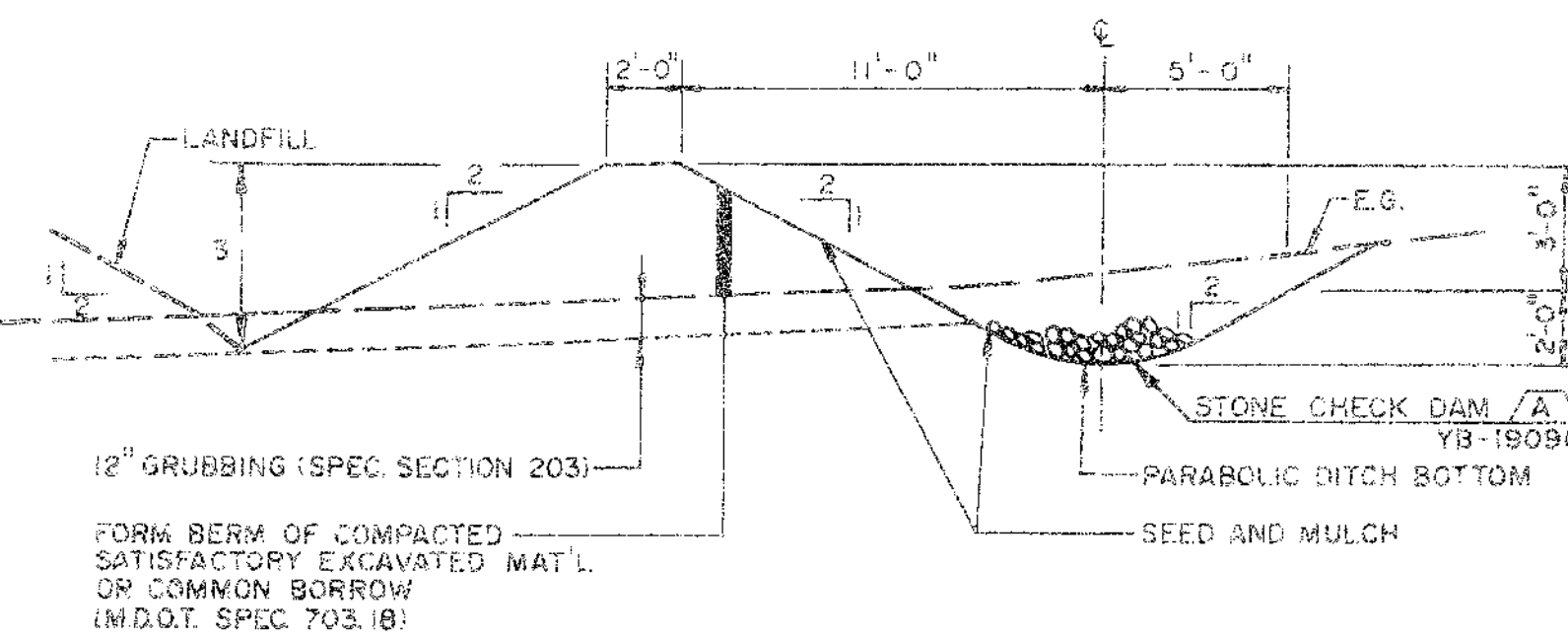
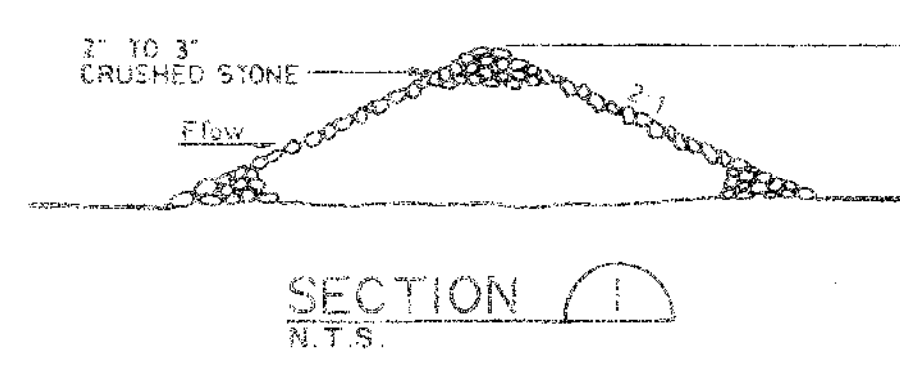
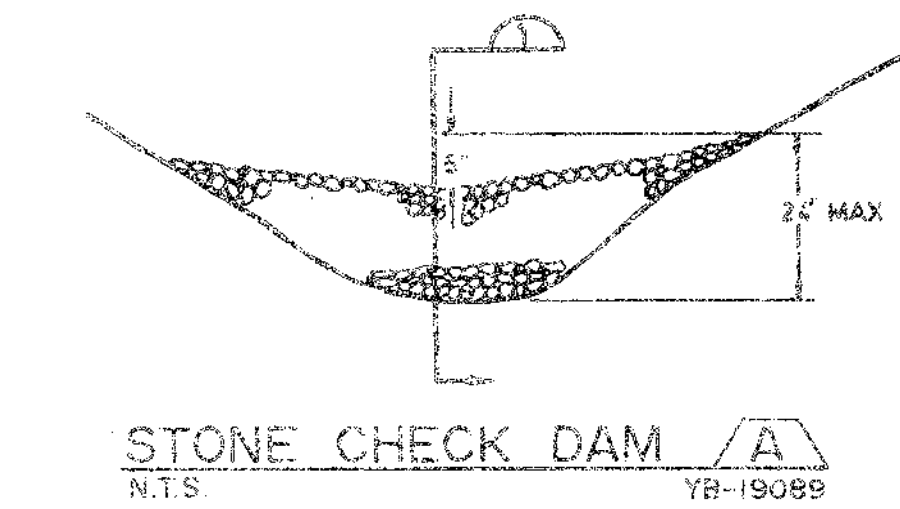
Great Northern Paper
a subsidiary of
Great Northern Pulp and Paper Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

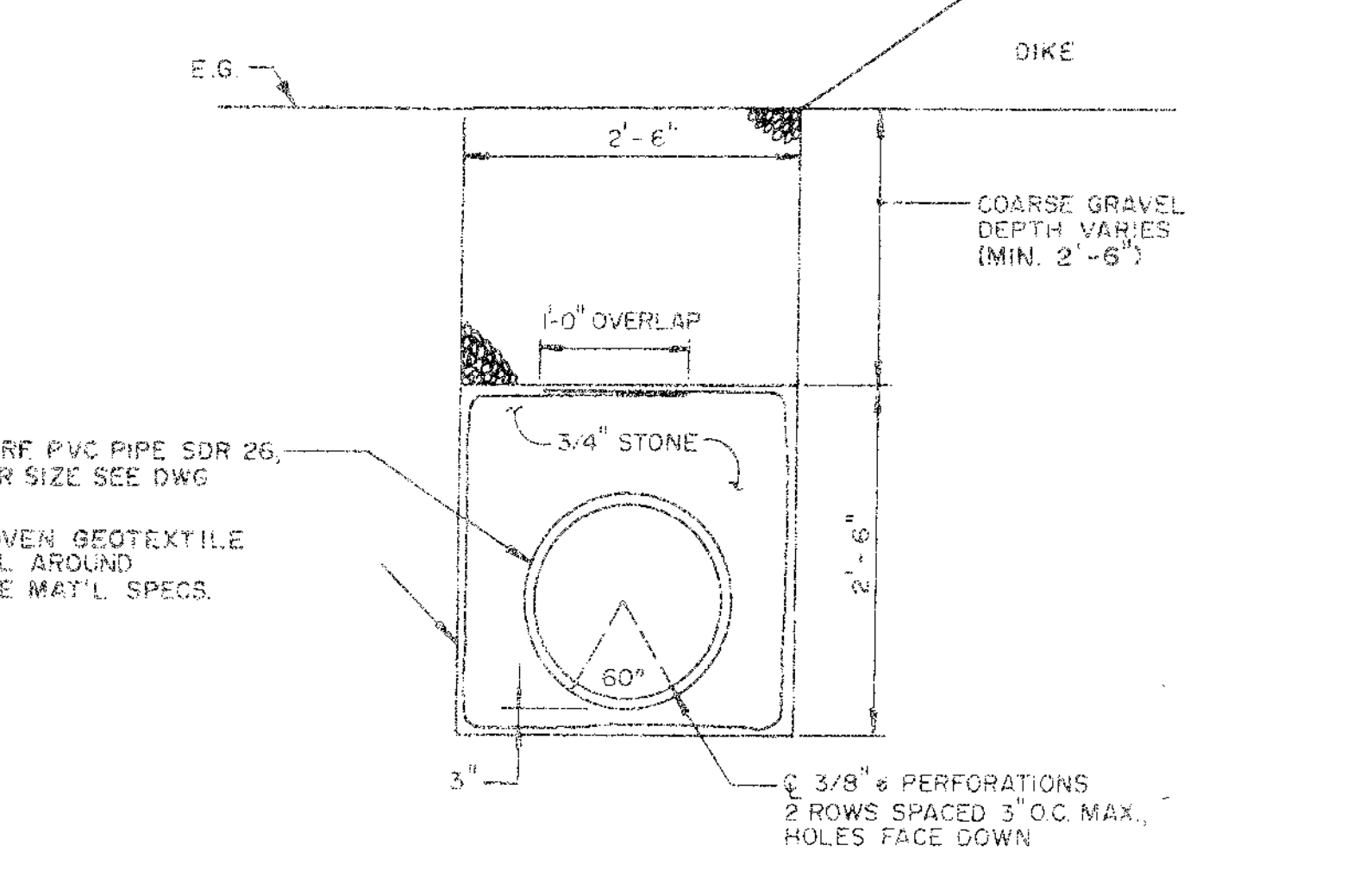
DOLBY III LANDFILL
CELL 5
SITE DEVELOPMENT PLAN

JOB NO. 94855
FILE NO. 8-282-3705/7050
YB-19089

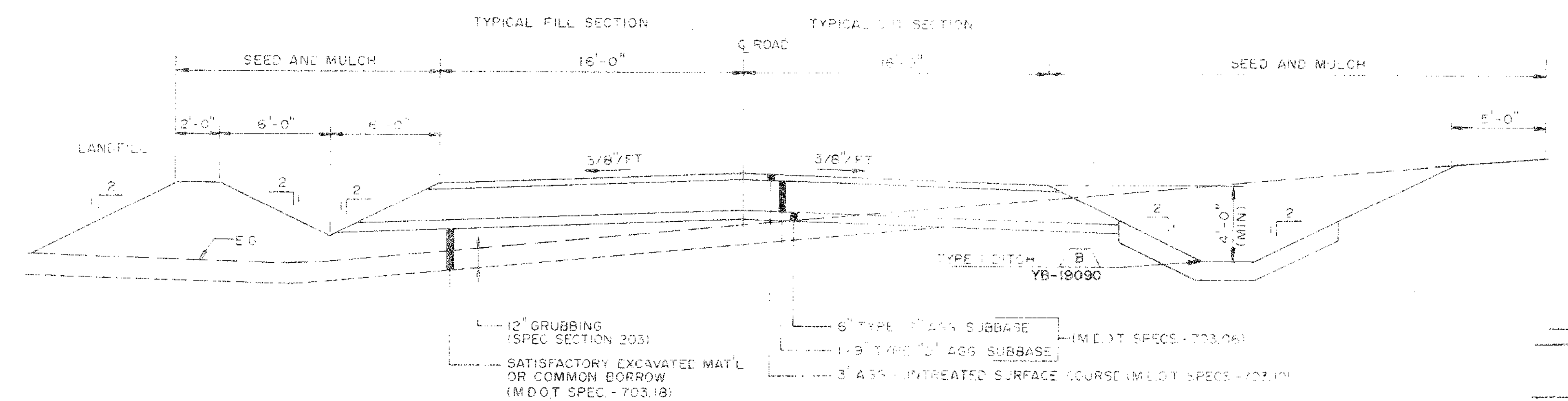




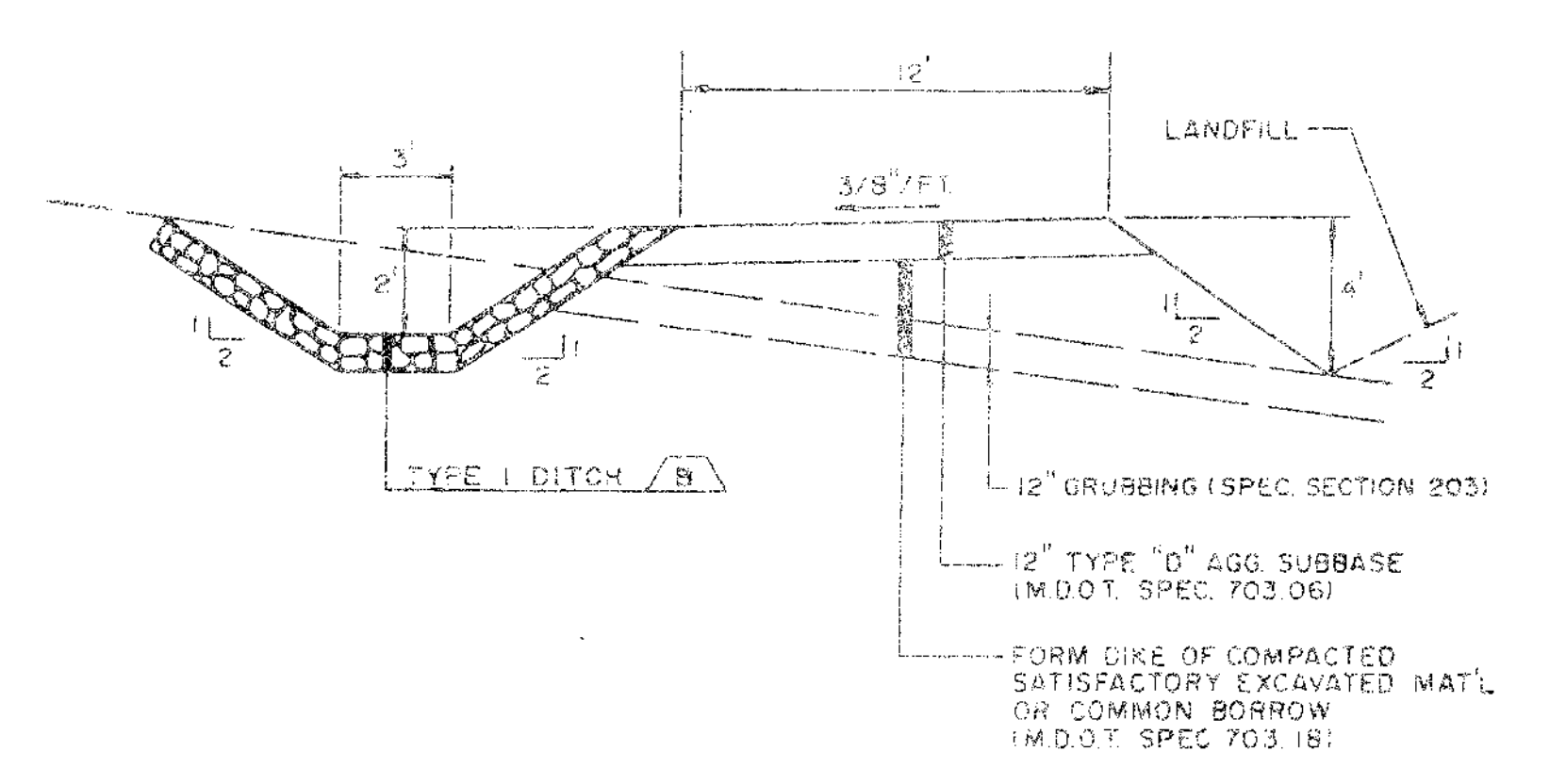
TYPICAL SECTION
DIKE AND TYPE 2 DRAINAGE DITCH (2)
SCALE: 1" = 5'
YB-19089



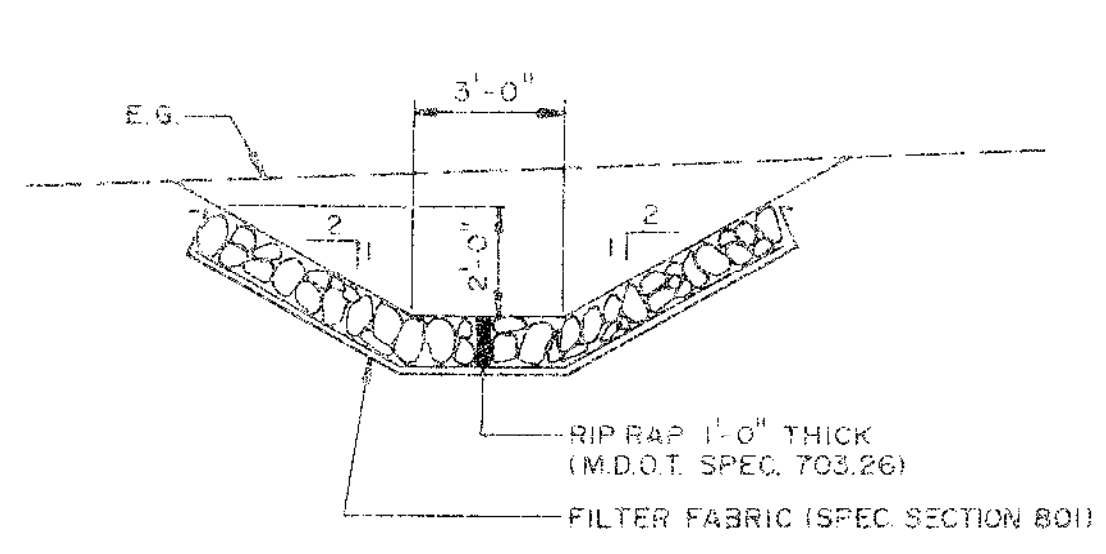
PERF LEACHATE COLLECTION MAIN (7)
N.T.S. YB-19089



TYPICAL SECTION
LANDFILL ACCESS ROAD (3)
N.T.S. YB-19088

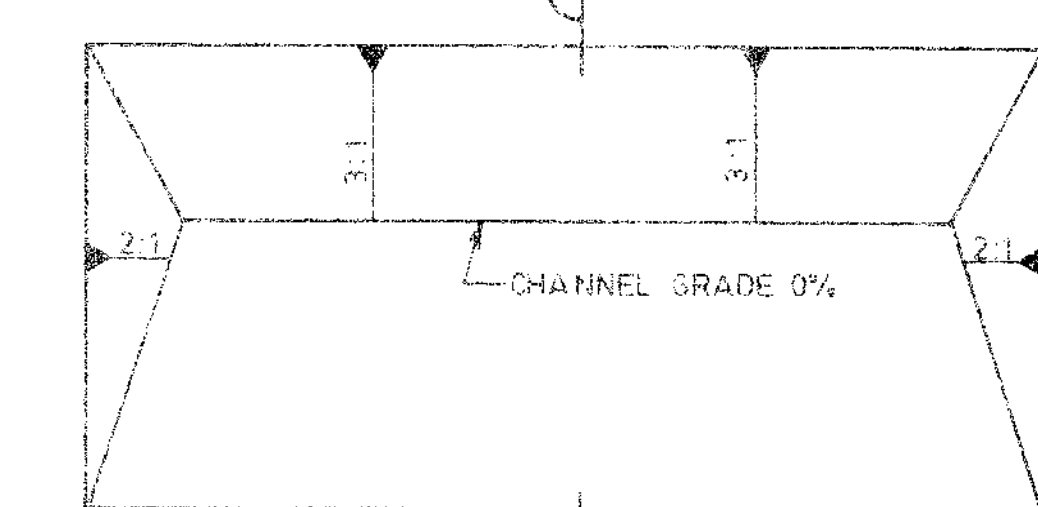


DIKE ACCESS ROAD (4)
N.T.S. YB-19089



TYPE I DITCH (B)
N.T.S. YB-19090

NOTE: STONE OUTLET TO BECOME PERMANENT FIXTURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIP RAP AREA TO BE SEEDED AND MULCHED WHEN CONSTRUCTION COMPLETE.



SECTION (B)
LEVEL SPREADER (C)
N.T.S. YB-19089

NOTE: LAST 20 FT OF DRAINAGE DITCH NOT TO EXCEED 1/4% GRADE

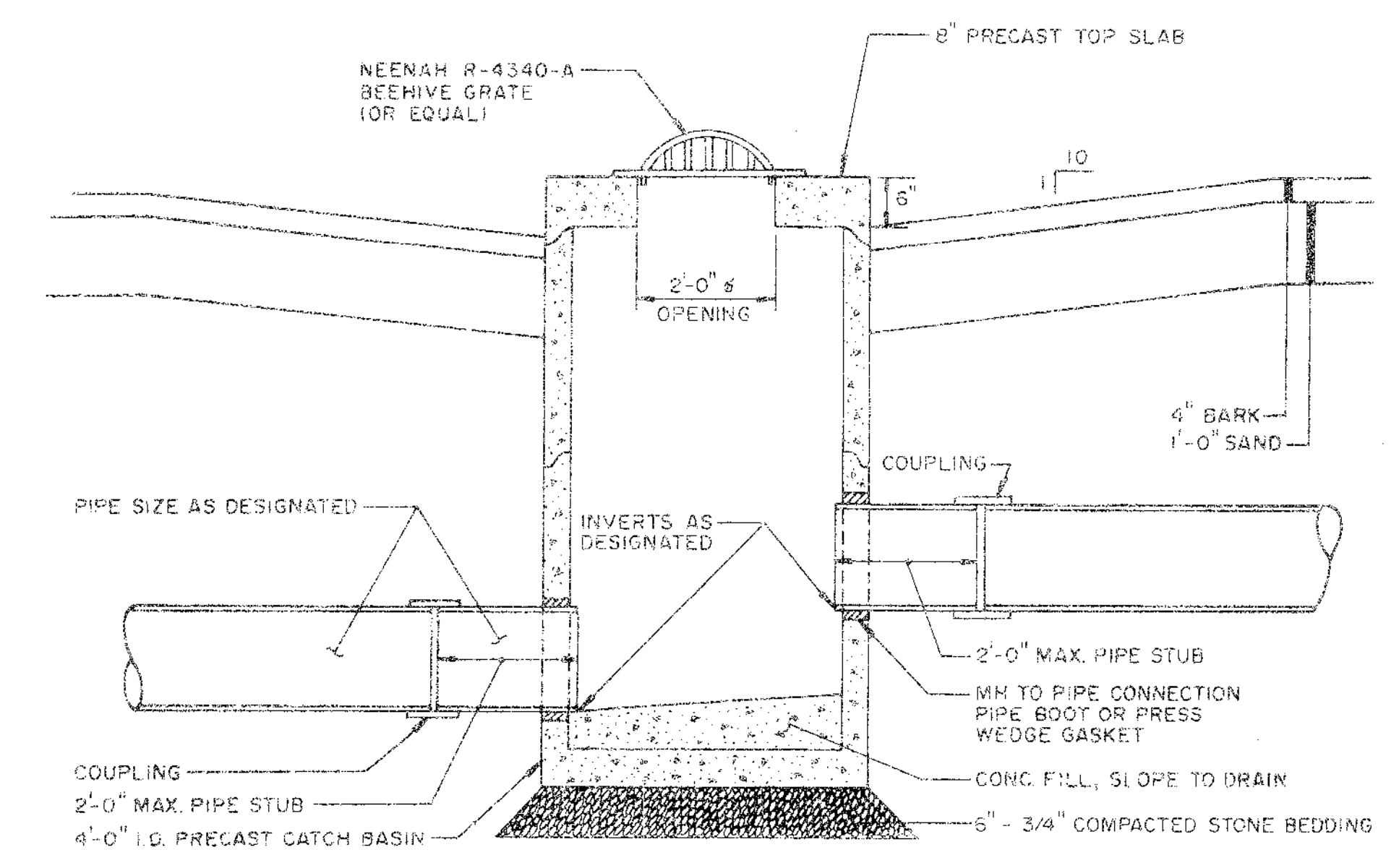
UNDISTURBED OUTLET

EXIST GRADE

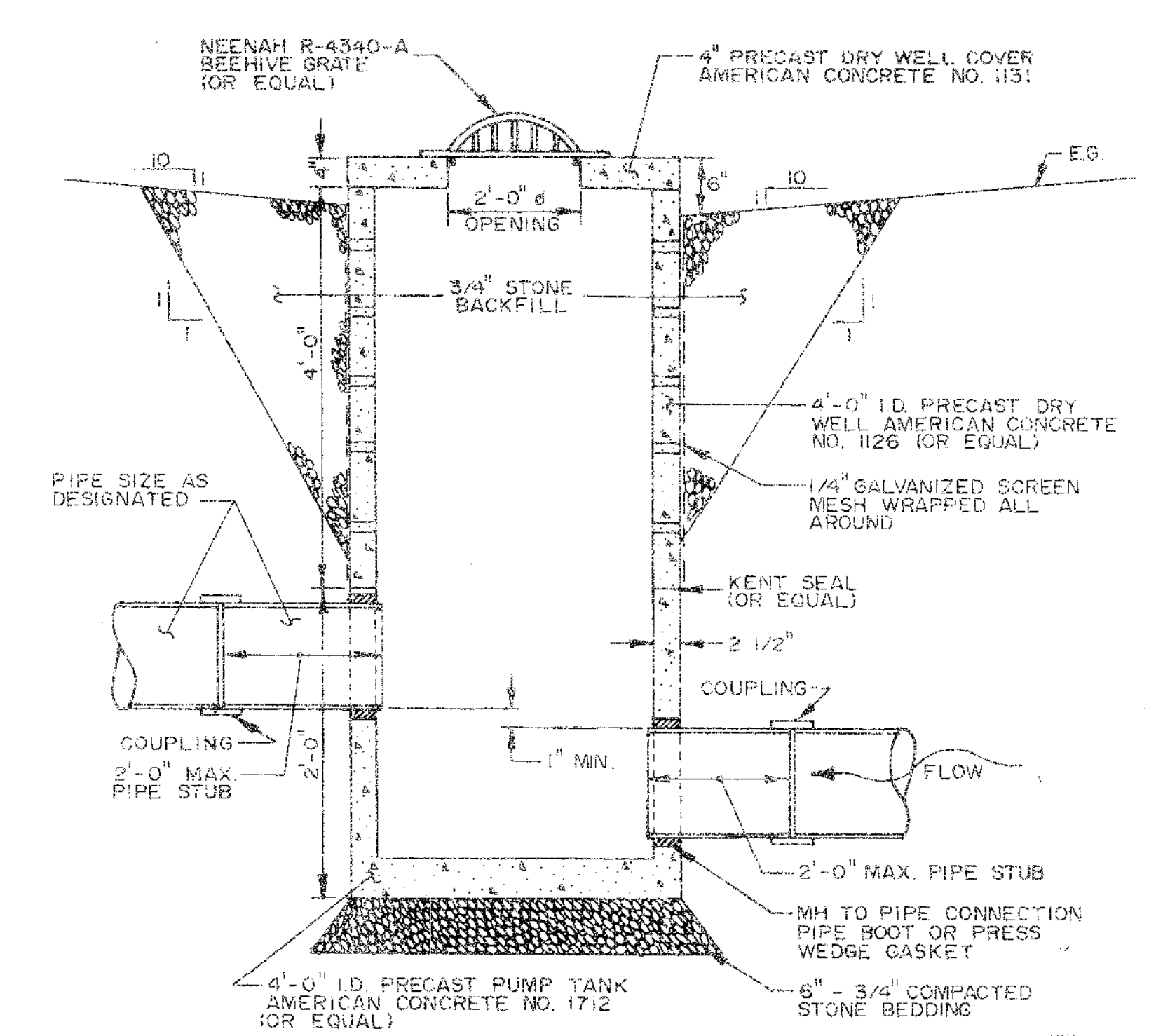
FIBERGLASS MATTING EROSION STOP

JUTE OR EXCELSIOR STRIPS, OVERLAP 8"

5" BELOW INVERT OF APPROACH DITCH



TYPICAL CATCH BASIN (5)
N.T.S. (EXISTING) YB-19089



CATCH BASIN (6)
N.T.S. YB-19089

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	REV.	DATE	REVISION	BY	CHKD	APP'D	JOB NO.
									9019

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRN	FLR	5/90
CHKD	JHL	5/90
CHKD	DXL	5/90
CHKD	SPR	5/90
CHKD	BBP	5/90
ISSUE CODE		B-Bids
SCALE		AS SHOWN

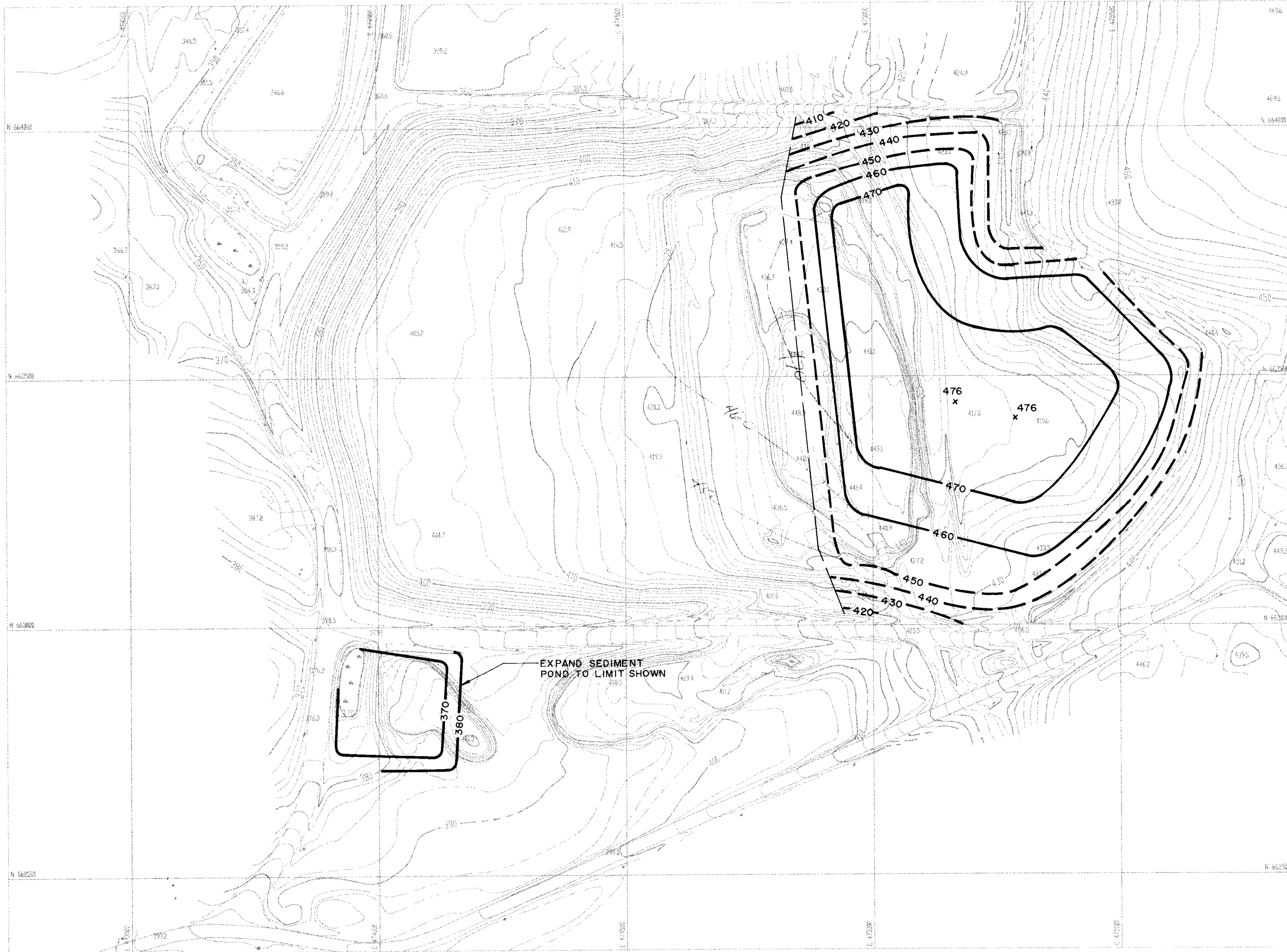
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY III LANDFILL
CELL 5
SECTIONS & DETAILS

JOB NO. 94545
ENG. REQ. NO. 2-032-4703.7082
FILE NO. YB-19090





LEGEND
 — 470 — CELL 6 FINAL GRADES
 - - - 450 - - - CELL 5 FINAL GRADES

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				8-5-91	SUBMITTED TO MDEP				

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

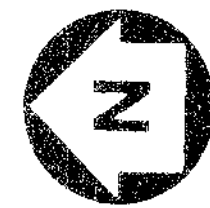
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CKD	7/91 <i>AMC</i>
CKD	
CON	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL.T.O.	C - CONST
SCALE 1" = 100'	



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
 DOLBY III LANDFILL
 CELL 6
 FINAL GRADING PLAN

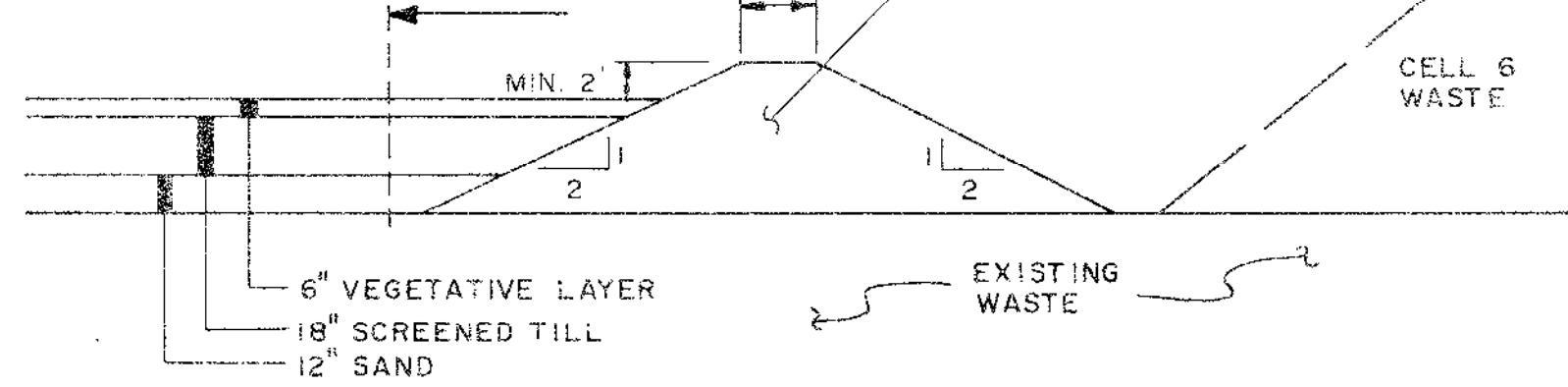
JOB NO. _____
 ENG. REG. NO. _____
 FILE NO. 2-092-4703, 7082

YB-20023

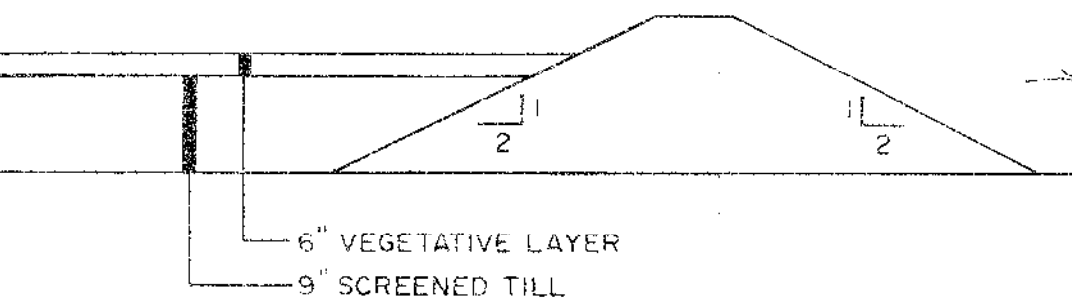


FORM BERM OF COMPACTED SATISFACTORY EXCAVATED MAT'L OR COMMON BORROW (M.D.O.T. SPEC. 703.1B)

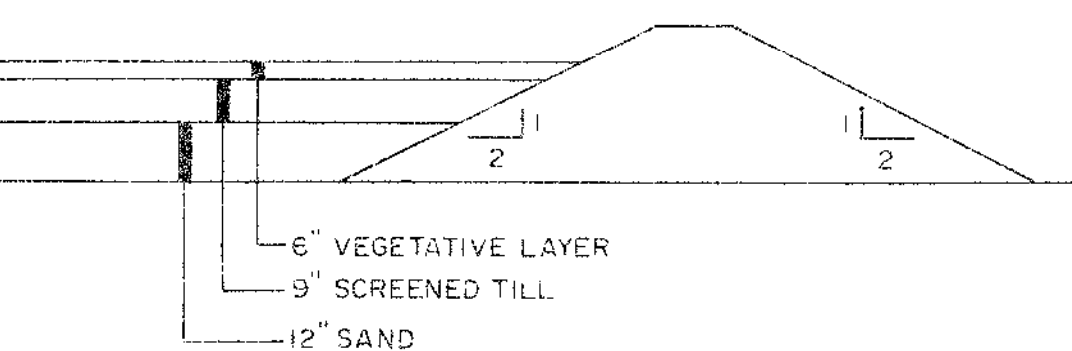
REPLACE DISTURBED AREAS W/ LAYERS AS SHOWN



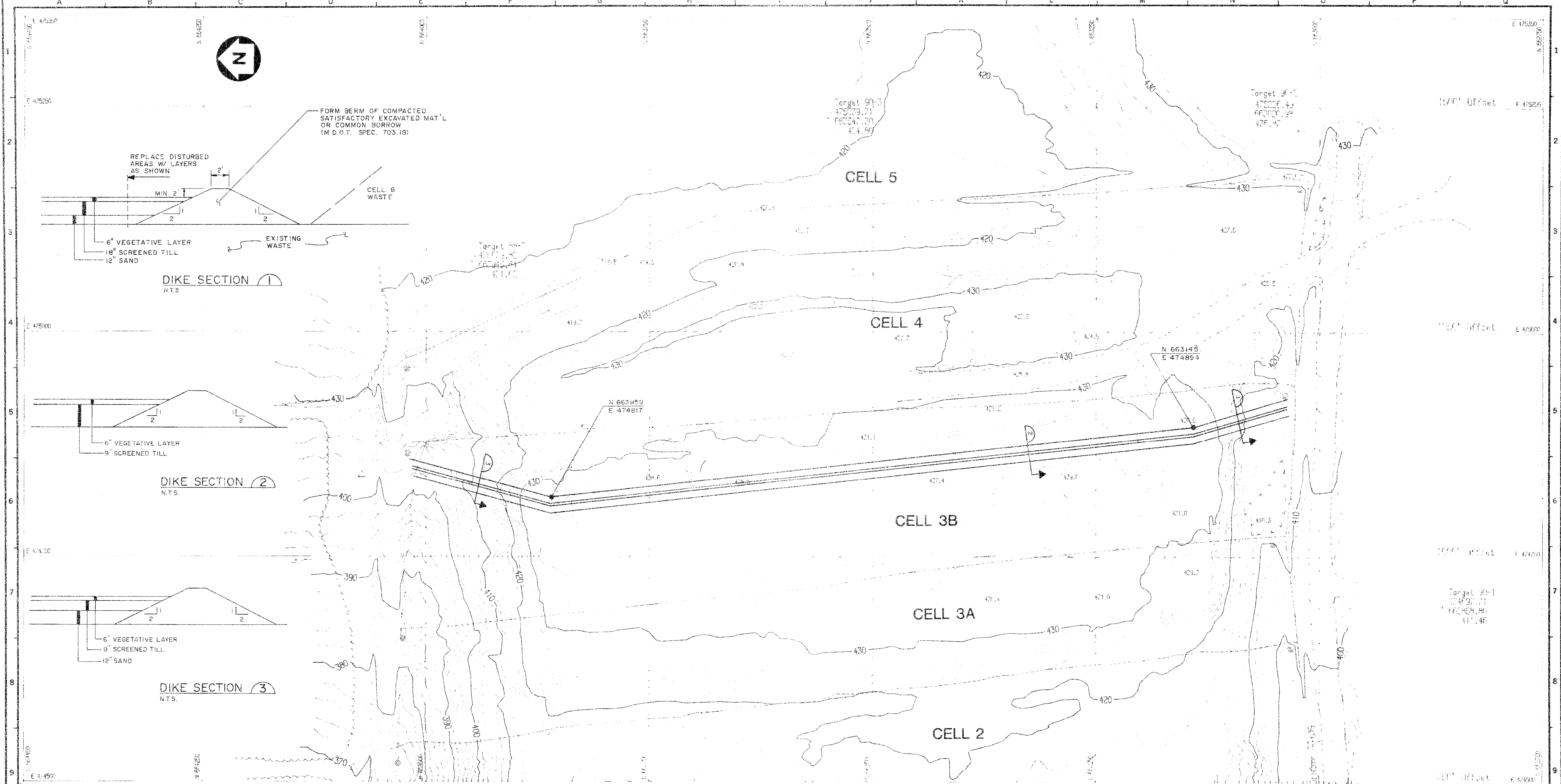
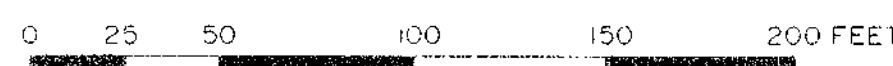
DIKE SECTION 1
N.T.S.



DIKE SECTION 2
N.T.S.



DIKE SECTION 3
N.T.S.



NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING ASBESTOS HANDLING.
2. CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

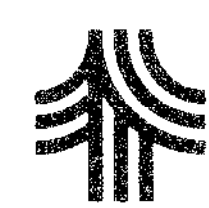
MATERIAL QUANTITIES

BORROW	1500 CY
SEEDING	20 UNITS

NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
1	1-8-92	RECORD DRAWING				
2	8-5-91	SUBMITTED TO MDEP				
3	4/18/90					

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	
CKD	7/91 <i>AMC</i>
CRG	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTLY. D.C. CONST	
SCALE AS SHOWN	

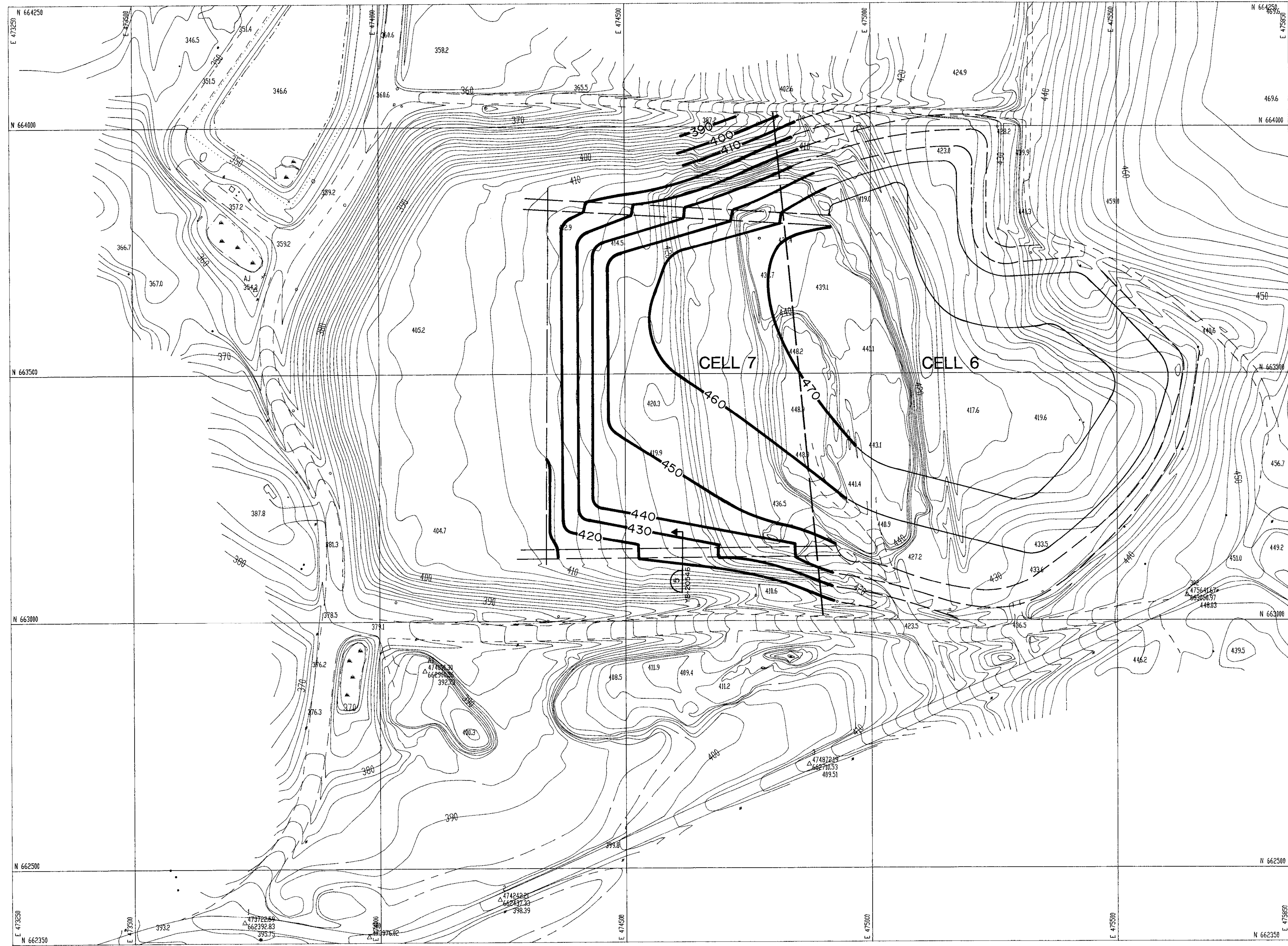


Great Northern Paper
a company of
Great Northern Nekeassa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY III LANDFILL
CELL 6
SITE DEVELOPMENT PLAN

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703, 7062

YB-20024



COMPILED AND CONTROLLED BY JAMES W. SEWALL, CO.			
OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS			
FROM AERIAL PHOTOGRAPHS DATED 8/9/90			
DRAWING NO.	REFERENCE DRAWING TITLE	CODE NO.	DATE

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

JOB NO. 92051

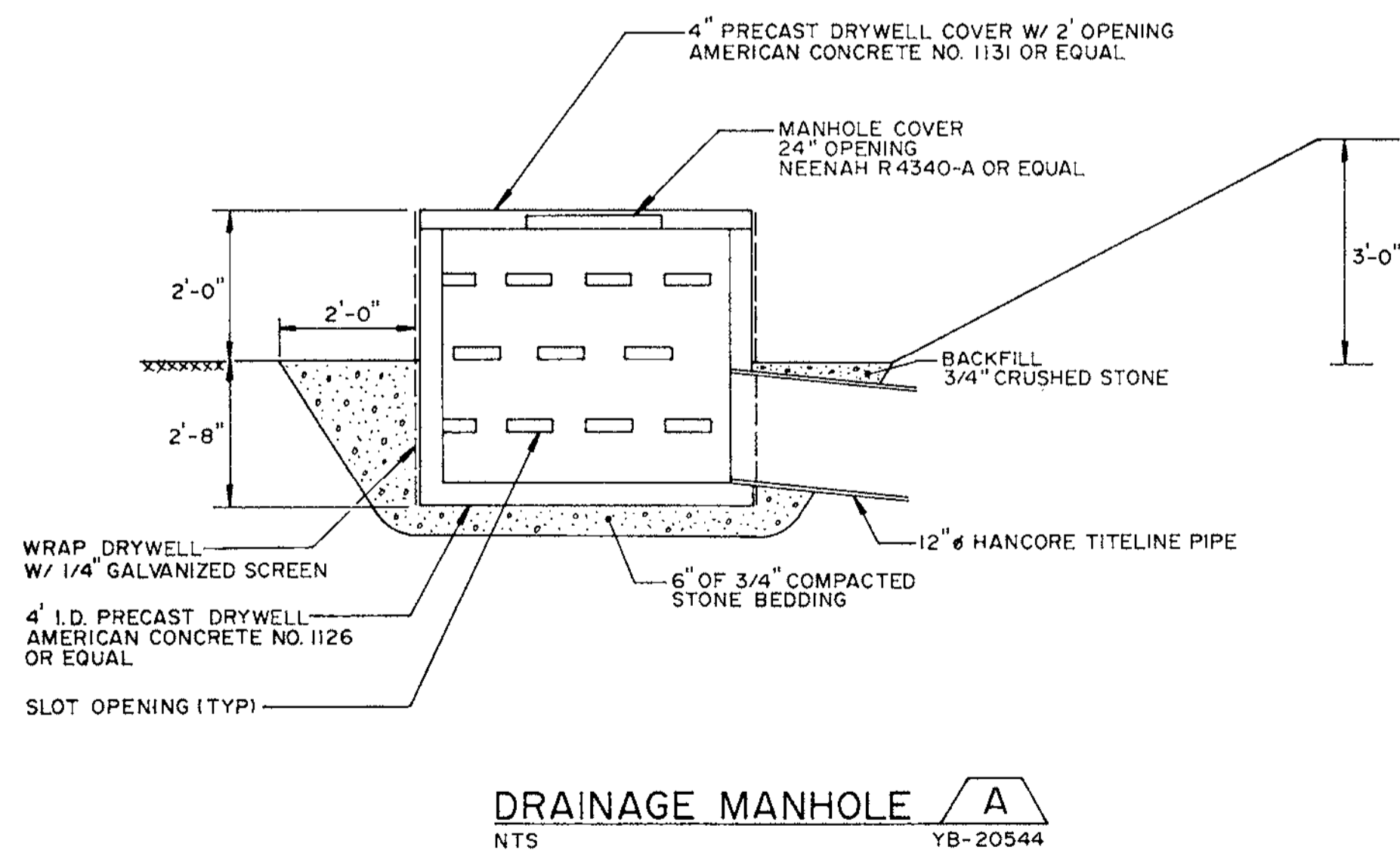
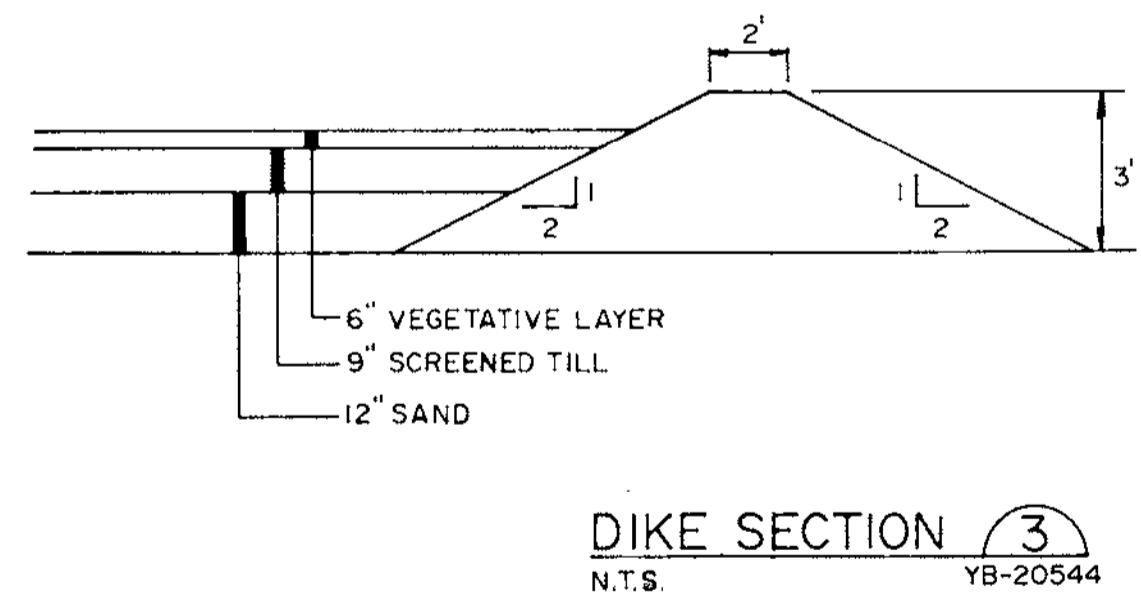
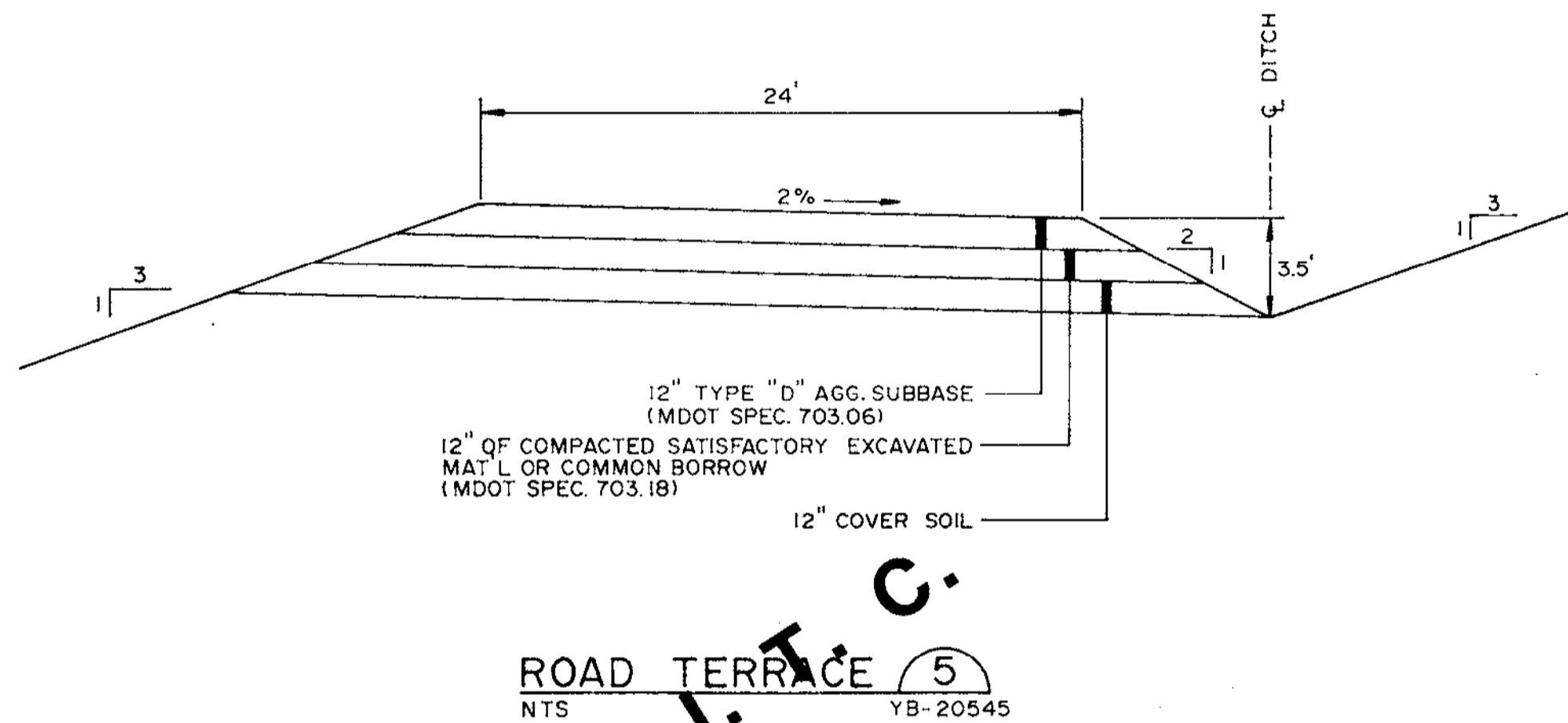
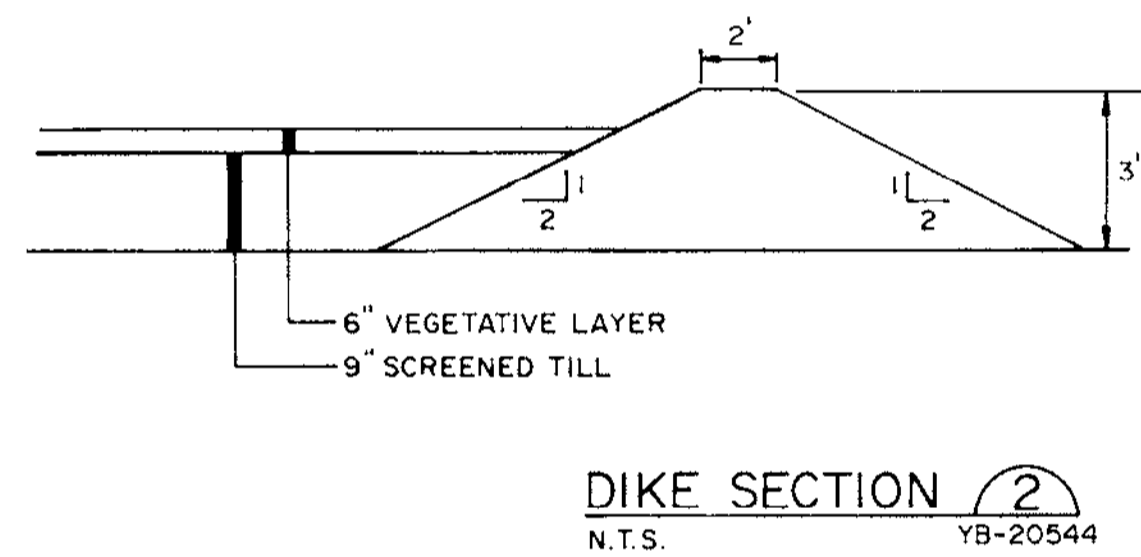
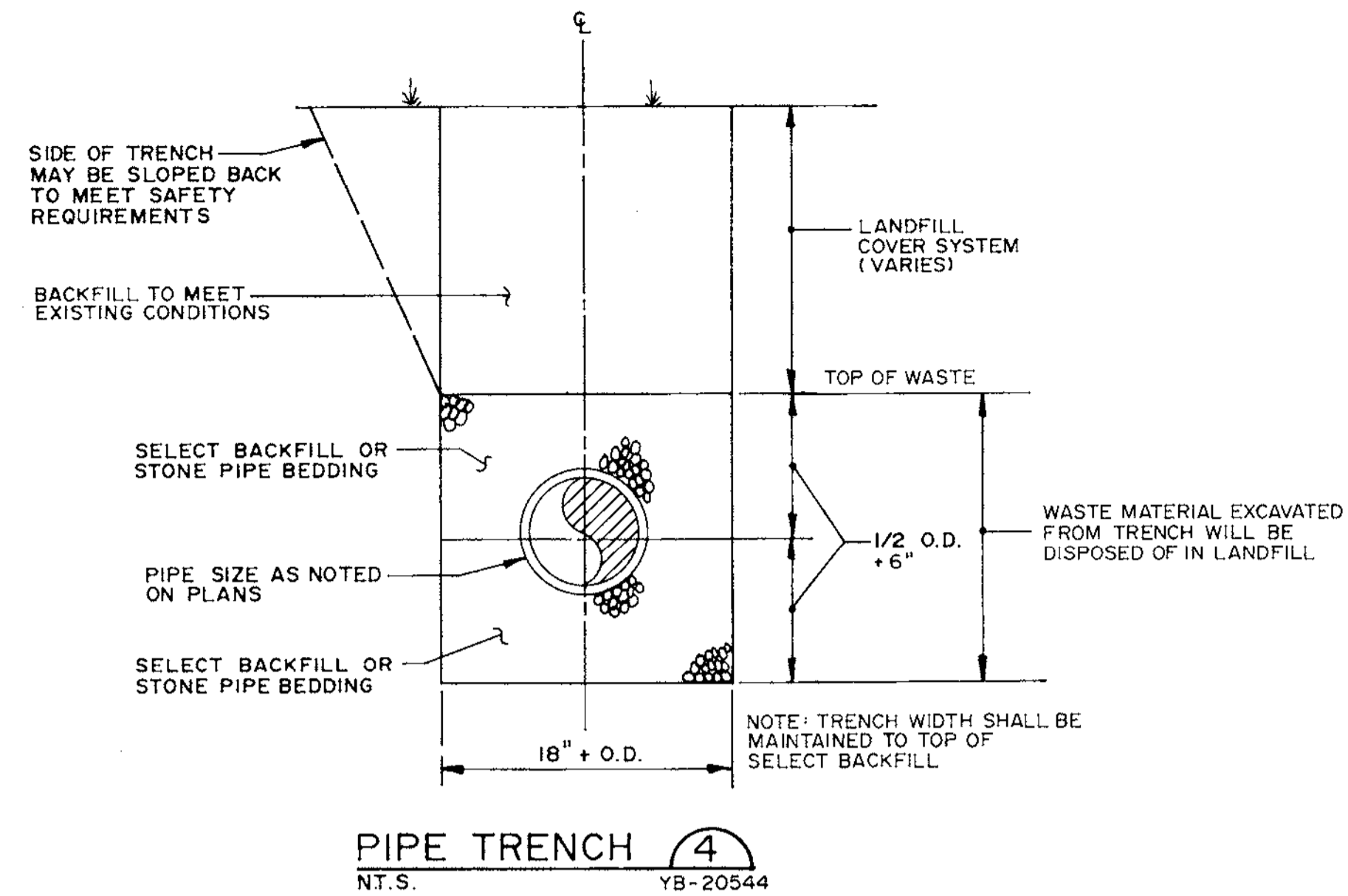
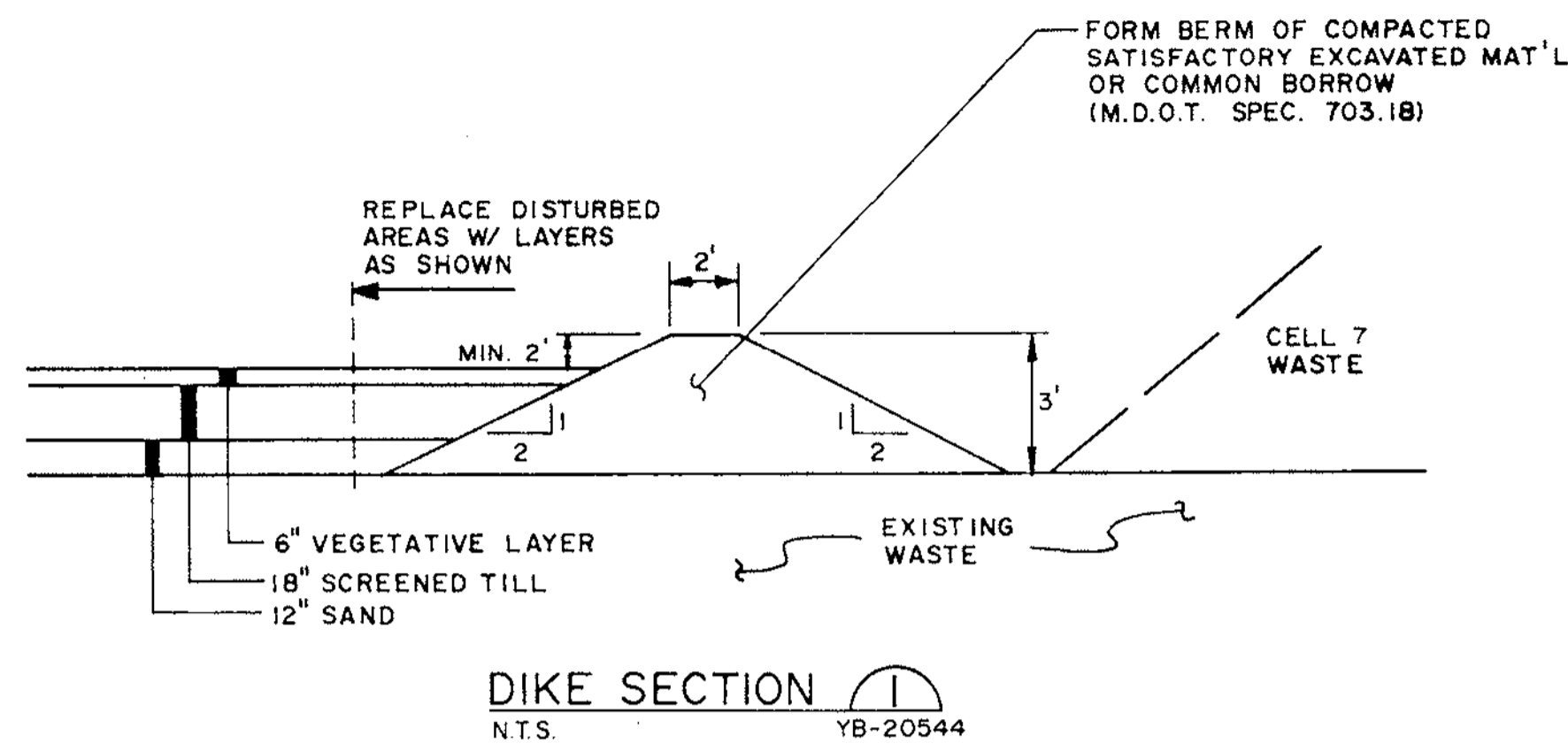
DRN	PAF	9-92
CKD	SAHE	9-92
CKD		
CORR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL. T.O.C.	C - CONST.	
SCALE 1" = 100'		



CENTRAL ENGINEERING DEPARTMENT
 EAST OPERATION
 DOLBY III LANDFILL
 CELL 7
 FINAL GRADING PLAN

JOB NO. _____
 ENG. REQ. NO. 95-6249
 FILE NO. 2-092-4703_7082

YB-20545



GENERAL NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
3. EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	≤ 5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM CELL 7 AREA PRIOR TO PLACING THE DRAINAGE OR EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIALS -

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	PERCENT
TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

MATERIAL QUANTITIES:

GRUBBING	17,000 CY
DIKE SOIL	1,600 CY
12" DIA. PIPE	355 LF
3/4" STONE	74 CY
DRYWELLS WITH COVERS, GRATES & FRAMES	2

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				1/93	RECORD DRAWING				JOB NO. 92051

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	PAF	9-92
CKD	AHC	9-92
CONR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - M.T.L.O.C. CONST		
SCALE N.T.S.		

BOWATER

GREAT NORTHERN PAPER, INC.

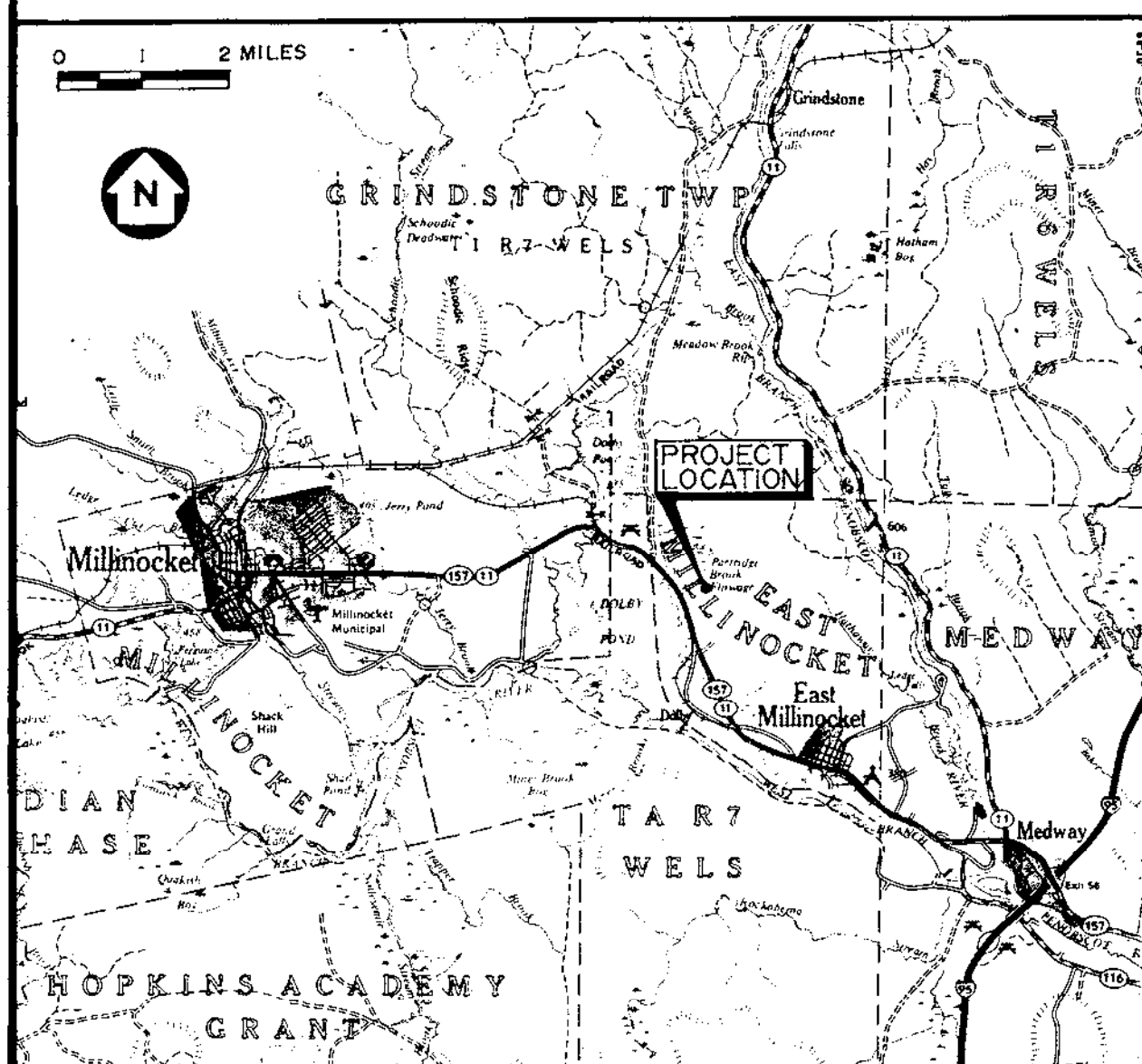
CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION
DOLBY III LANDFILL
CELL 7
DETAILS, SECTIONS &
MATERIAL SPECIFICATIONS

JOB NO. _____
ENG. REG. NO. 95-6249
FILE NO. 2-092-4703, 7082

Y B-20546


GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY III LANDFILL CELL 6 CLOSURE, CELLS 8 & 9 CONSTRUCTION

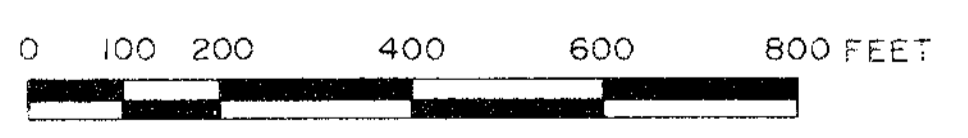
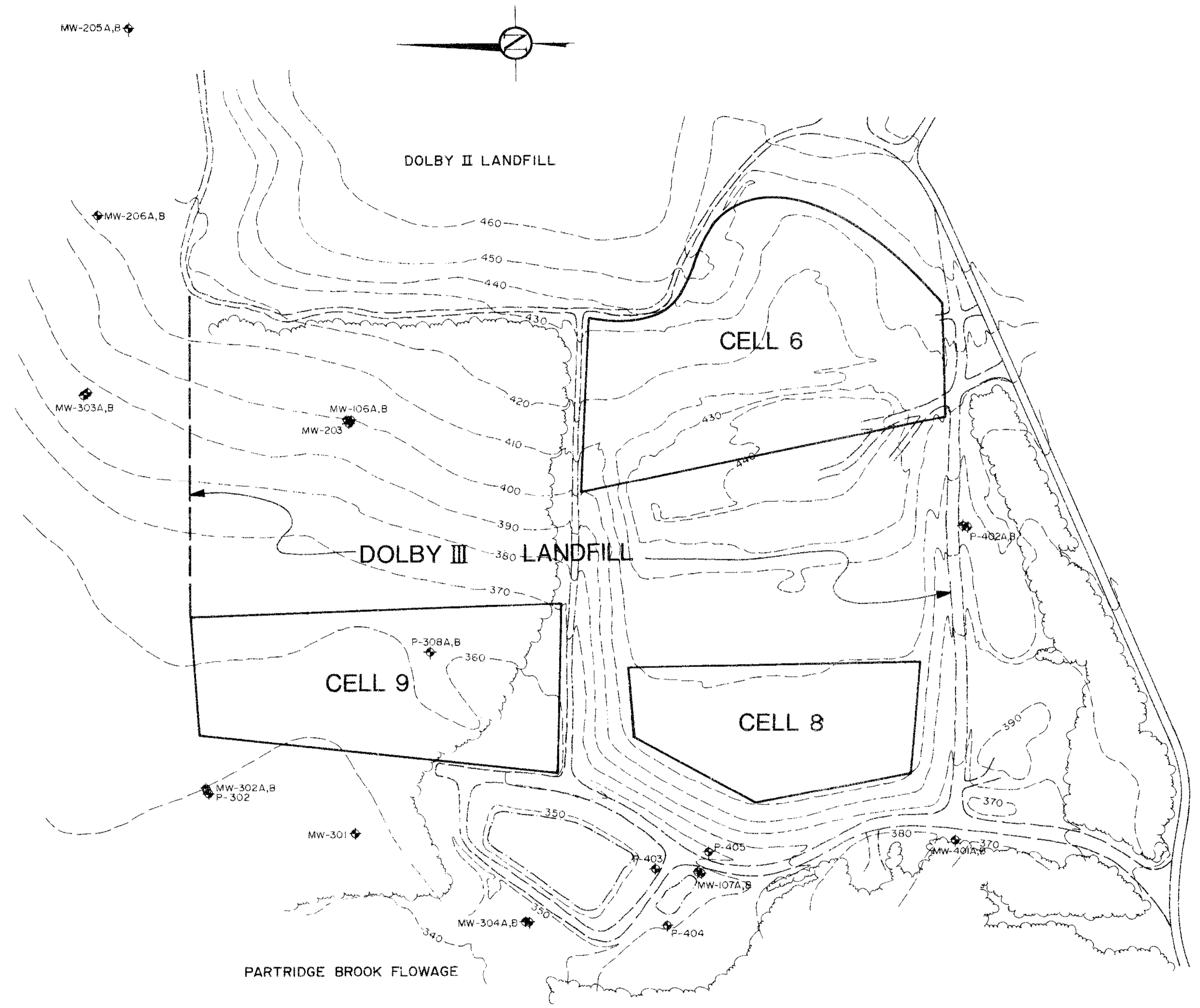
SHT NO.	TITLE	DWG NO.
1	COVER SHEET	YB-21000
2	SYMBOLS & ABBREVIATIONS	YB-21001
3	SITE LOCATION PLAN	YB-21002
4	CELL 8 - SITE DEVELOPMENT PLAN	YB-21003
5	CELL 9 - SITE DEVELOPMENT PLAN	YB-21004
6	CELLS 6 & 8 - FINAL GRADING PLAN	YB-21005
7	SECTIONS & DETAILS	YB-21006



**SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1993**



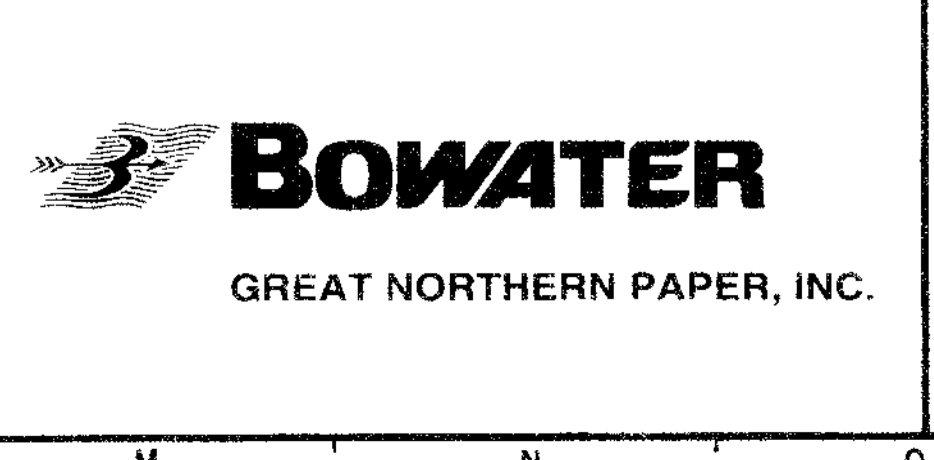
 BOWATER <small>GREAT NORTHERN PAPER, INC.</small>	<small>CENTRAL ENGINEERING DEPARTMENT EAST OPERATION</small> DOLBY III LANDFILL CELL 6 CLOSURE, CELLS 8 & 9 CONSTRUCTION COVER SHEET
JOB NO. _____ ENG. REG. NO. _____ FILE NO. 2-092-4703,7082	YB-21000



DRAWING NO.	REFERENCE DRAWING TITLE	CODE NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
		B	8-4-93	ISSUED FOR BID	4HC			JOB NO. 9302B

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

DRN	PAF	6/93
CKD	4HC	6/93
CDR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL T.O.	C - CONST	
SCALE 1" = 200'		



CENTRAL ENGINEERING DEPARTMENT
 EAST OPERATION
 DOLBY III LANDFILL
 CELL 6 CLOSURE,
 CELLS 8 & 9 CONSTRUCTION
 SITE LOCATION PLAN

JOB NO. _____
 ENG. REQ. NO. _____
 FILE NO. 2-092-4703.7062

YB-21002



E 474500

CELL 7

EXISTING 12" PIPE

EXISTING 12" PIPE

CB #1

12" CB #9

CB #8

YB-21006

YB-21006

DRAINAGE MANHOLE
INV. OUT 397.2
RIM 400.9

YB-21006

CELL 8
REMOVE 15" OF COVER SOIL
(5.6 ACRES)

DRAINAGE MANHOLE
INV. OUT 398.7
RIM 402.4

YB-21006

22-1/2° ELBOW
TURN TO MATCH SLOPE

22-1/2° ELBOW
TURN TO MATCH SLOPE

CB #2

12" PIPE INSTALLED
INTO EXISTING CB #3

DRAINAGE MANHOLE
INV. OUT 396.4
RIM 400.1

YB-21006

E 474000

CONTAINMENT DIKE

CB # 6A0

12" HANCORE TITELINE PIPE
(TYP)

YB-21006

CB #3

22-1/2° ELBOW
TURN TO MATCH SLOPE

12" CB #7

12" PIPE INSTALLED
INTO EXISTING CB #7

N 664000

CB #4

12" PIPE INSTALLED
INTO EXISTING CB #5

CB #5

CB #6

ACCESS ROAD

N 663500

0 25 50 100 150 200 FEET



COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.
OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS
FROM AERIAL PHOTOGRAPHS DATED 8/9/90

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRAWN	PAF	6-93
CHECKED	MAH	6-93
DESIGNED		
CORRECTED		
APPROVED		
ISSUE CODE		
P. PRELIM	B-BUS	
M-MYL T.O.C.	C-CONST	
SCALE 1" = 50'		



GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

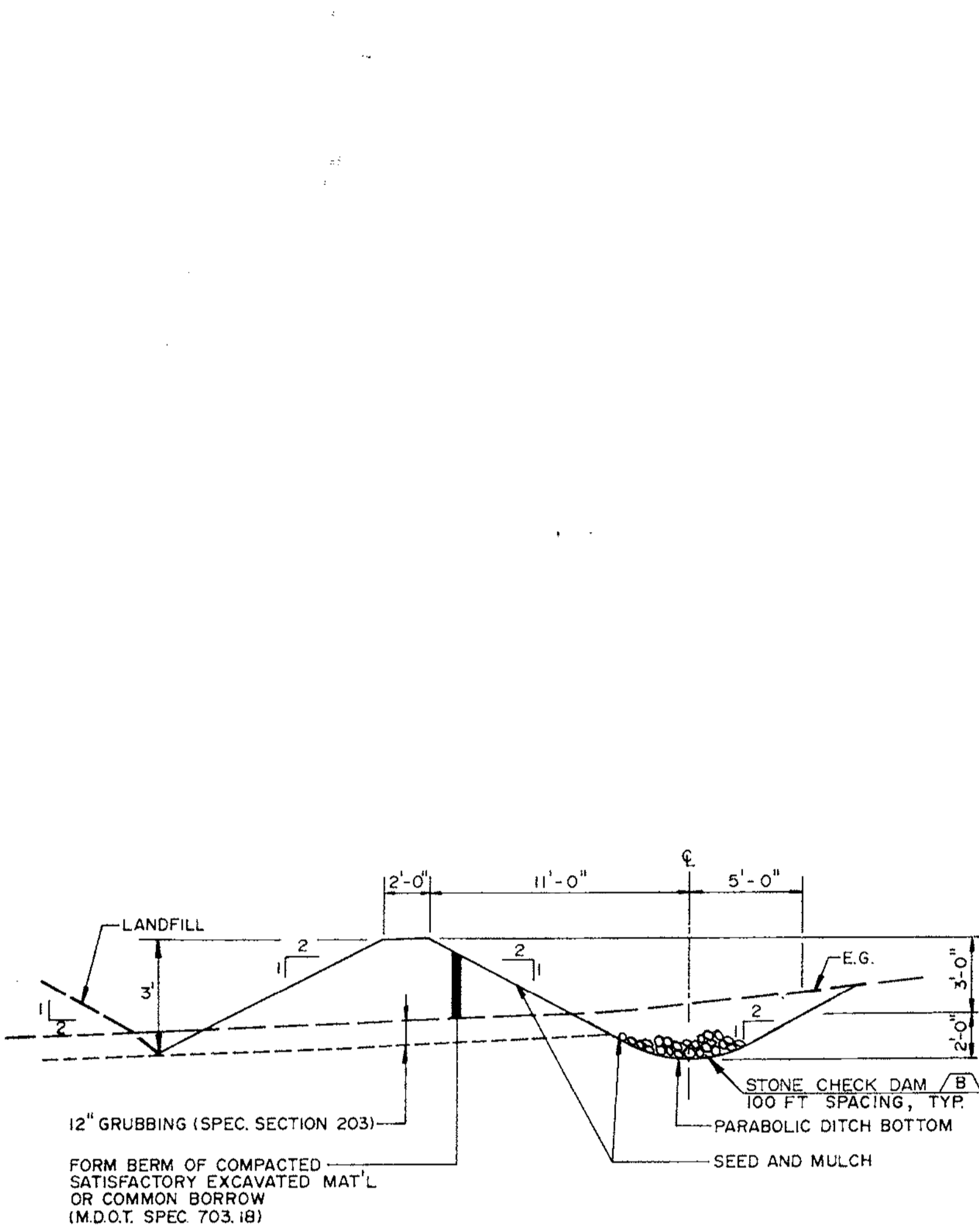
DOLBY III LANDFILL
CELL 8
SITE DEVELOPMENT PLAN

YB-21003

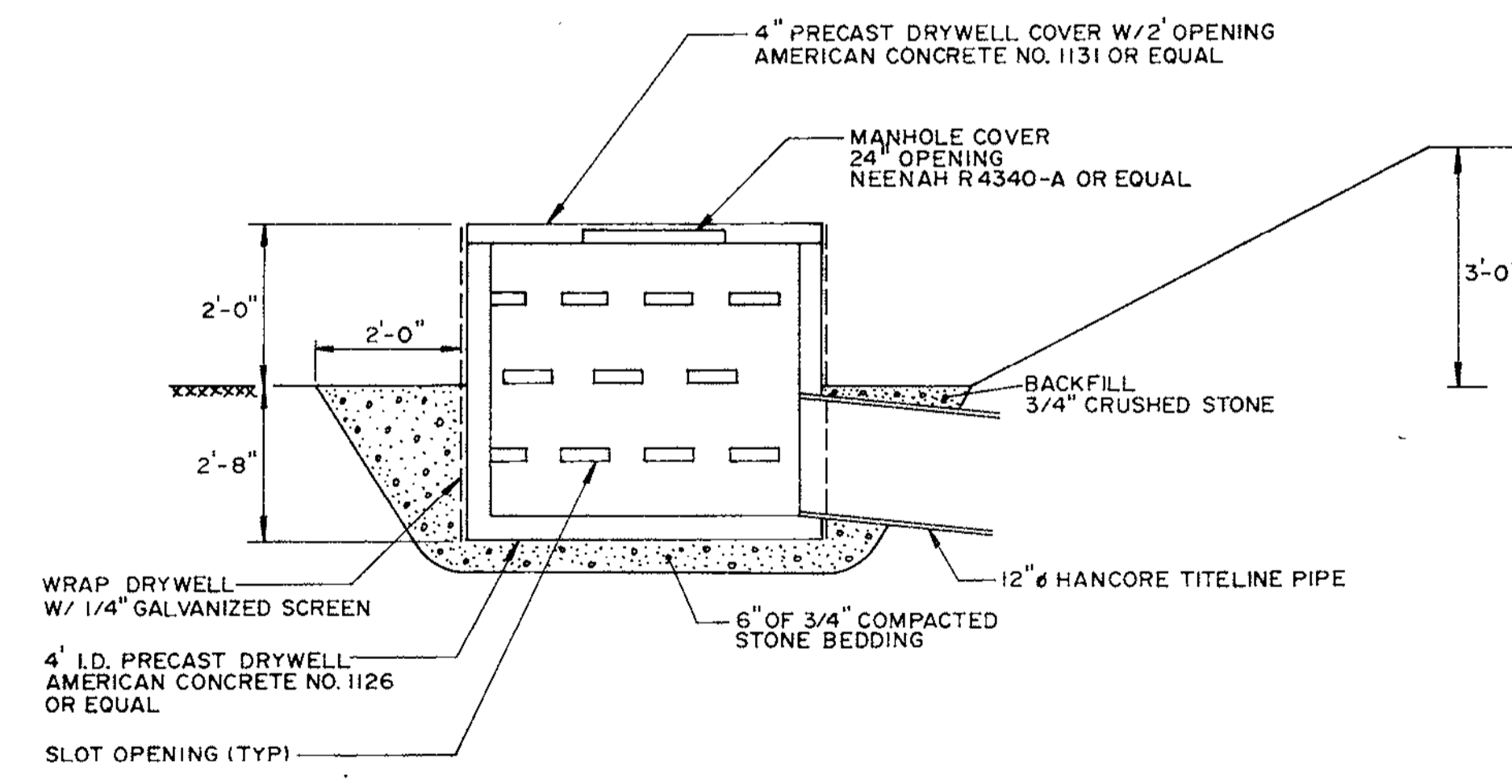
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	ING.	DATE	REVISION	BY	CHKD.	APPVD.	JOB NO.
		B	I	8-4-93	ISSUED FOR BID	MAH			93028
				8-18-94	RECORD DRAWING/CELL 8 CONSTRUCTION	CJB			

JOB NO. 93028

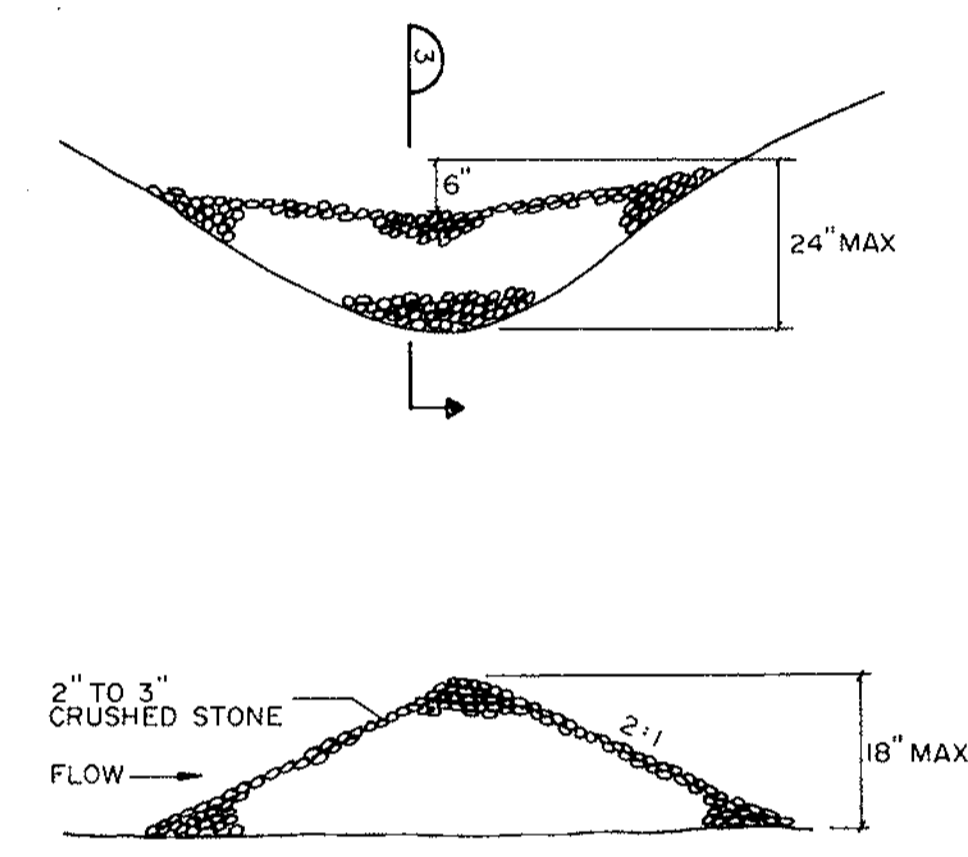
JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703,7082



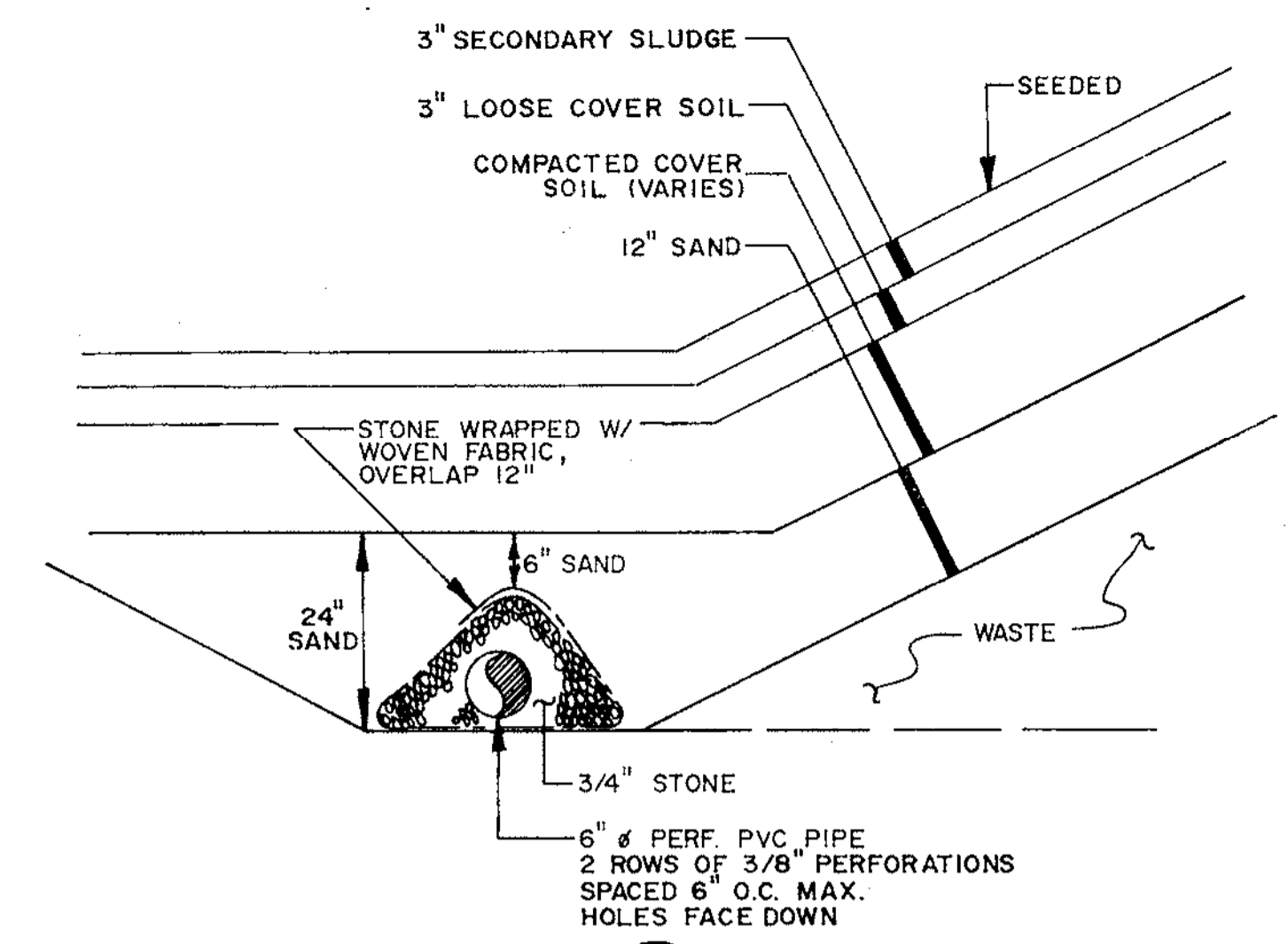
DIKE AND TYPE 2 DRAINAGE DITCH (2)
YB-21004



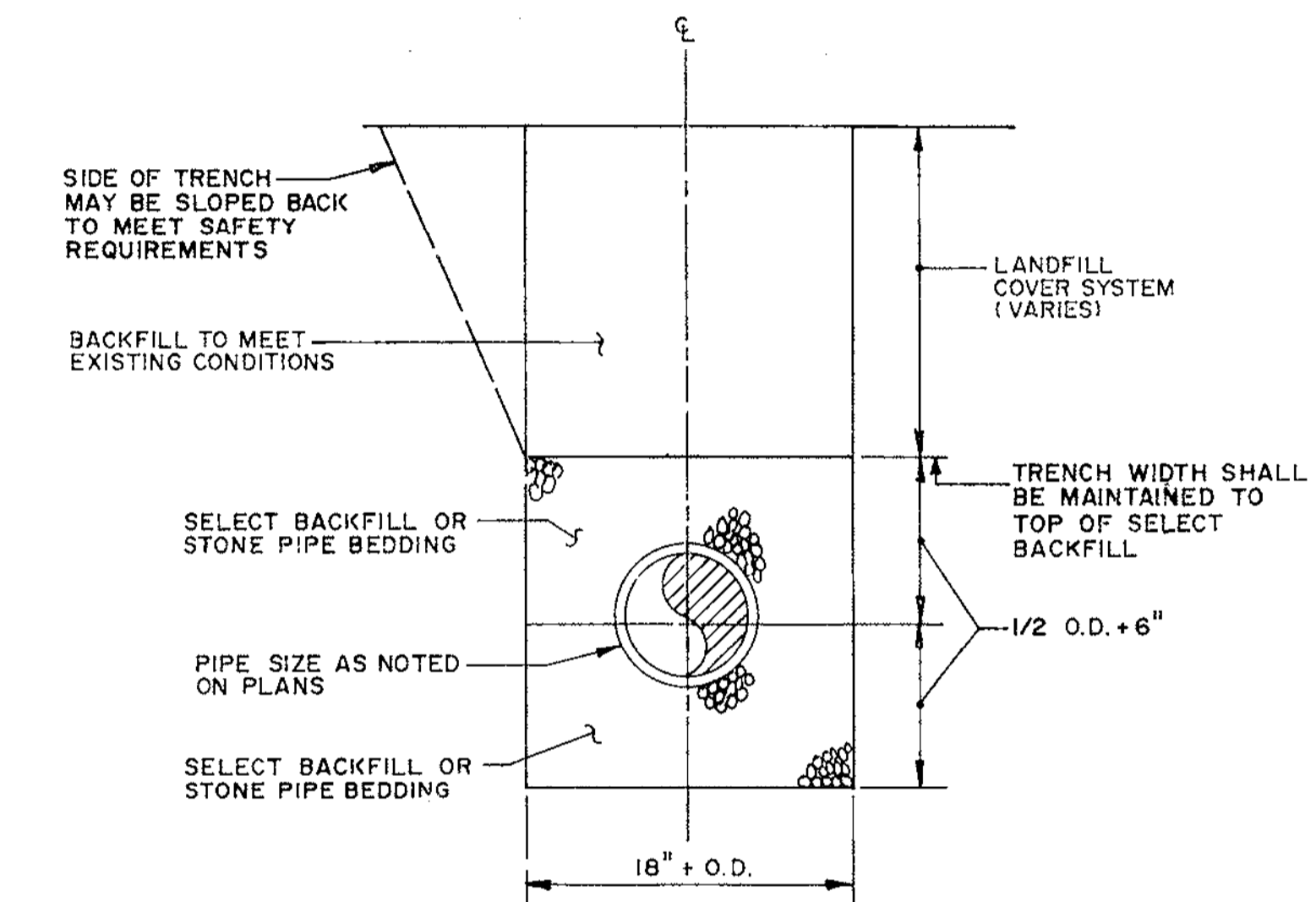
DRAINAGE MANHOLE (A)
NTS YB-21003



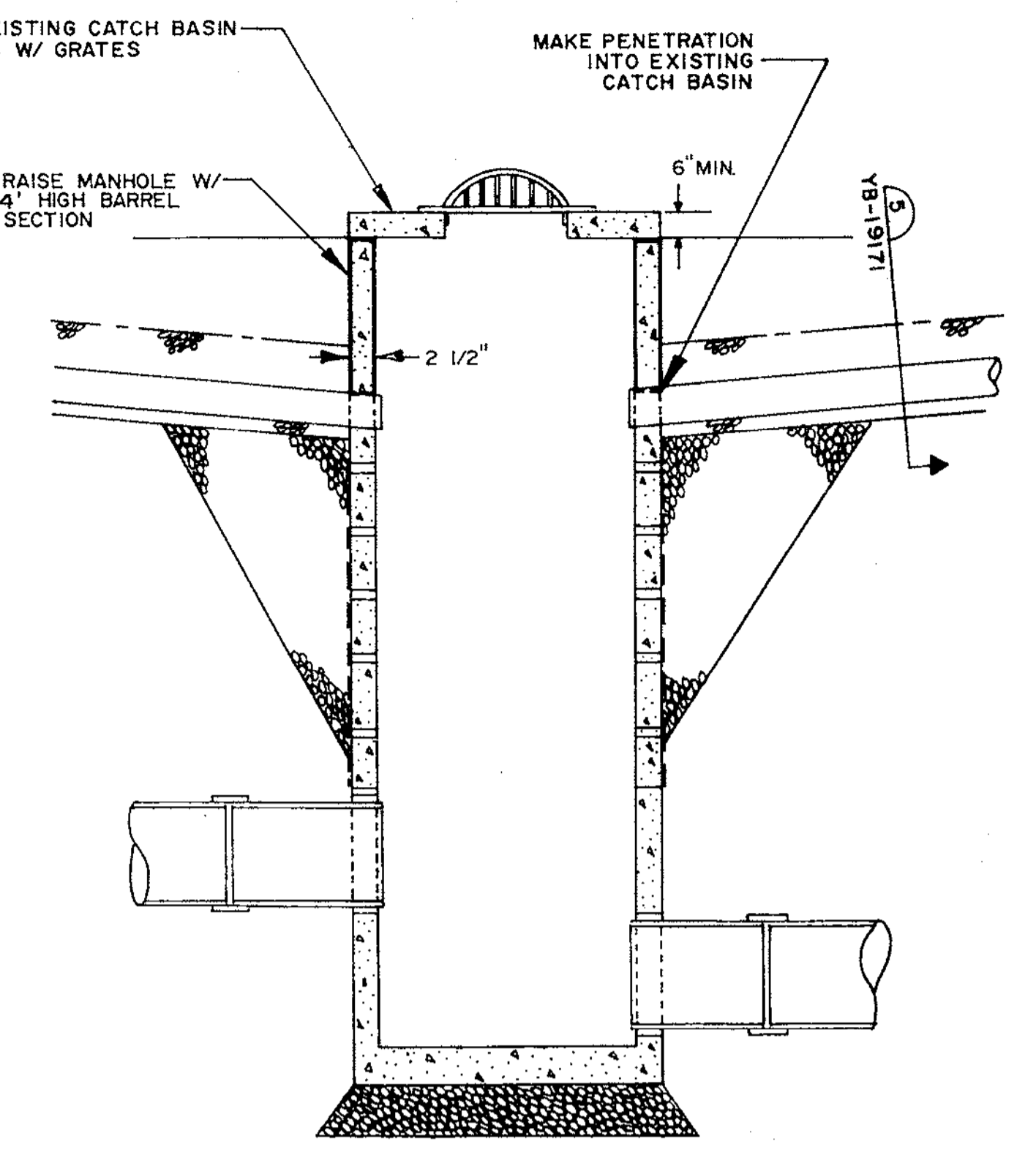
SECTION (3)
STONE CHECK DAM (B)
NTS YB-21006
YB-21004



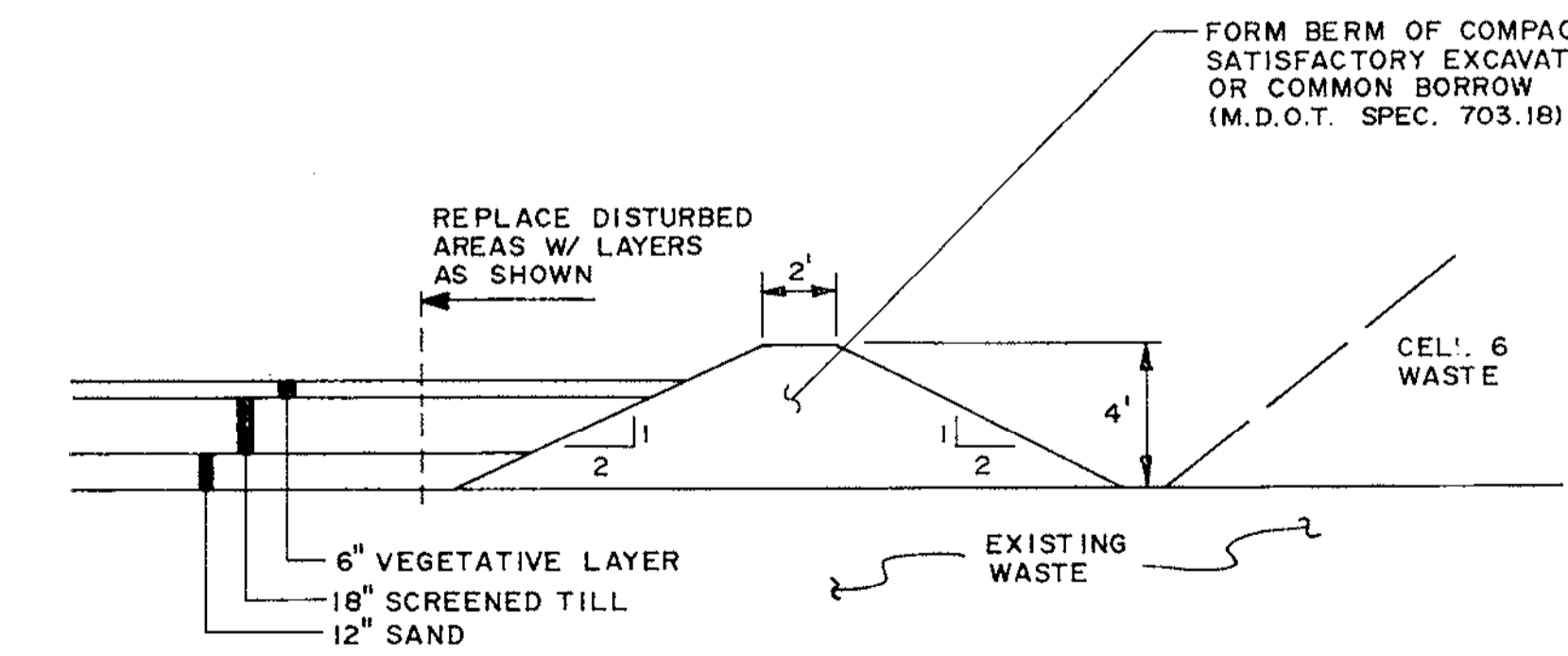
SECTION (8)
NTS YB-21006
YB-21005



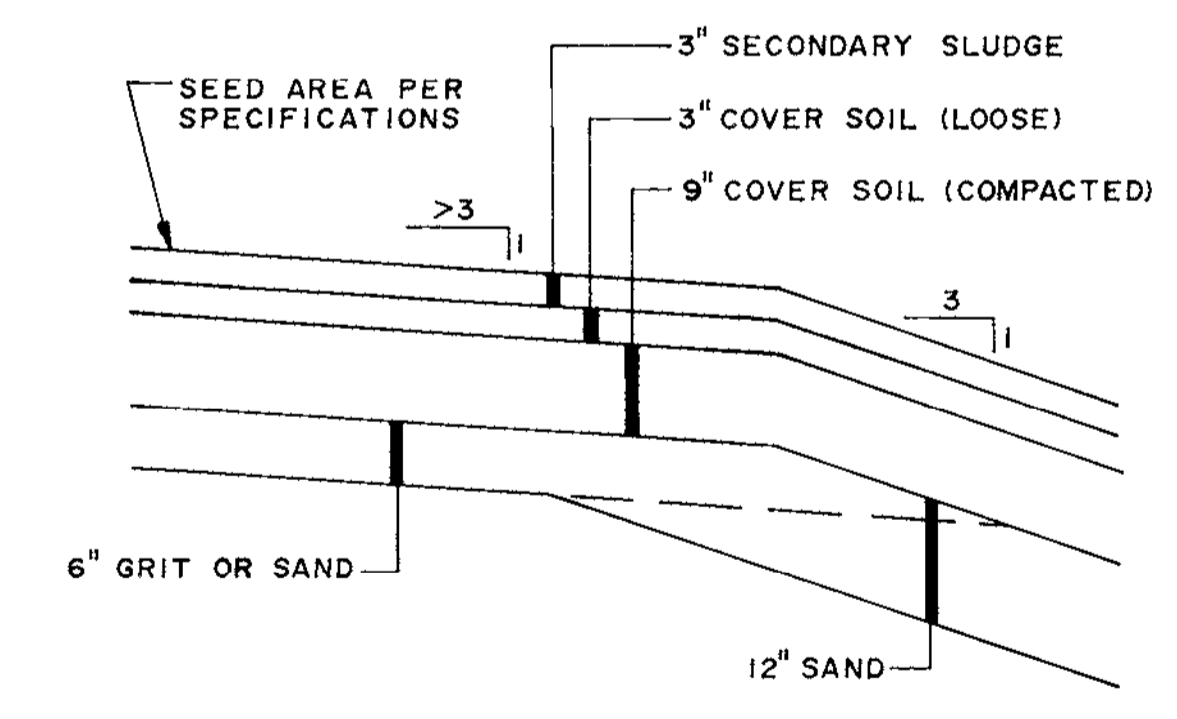
PIPE TRENCH (5)
NTS YB-21003



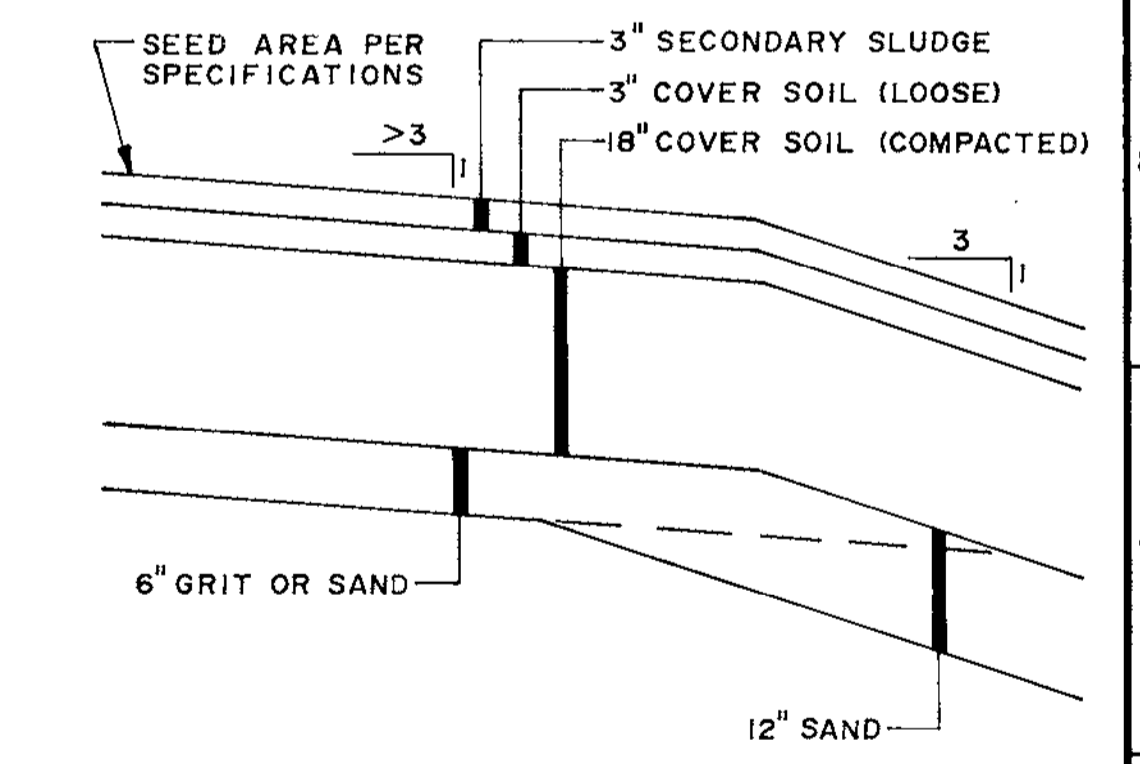
CATCH BASIN (9)
NTS (EXISTING) YB-21005



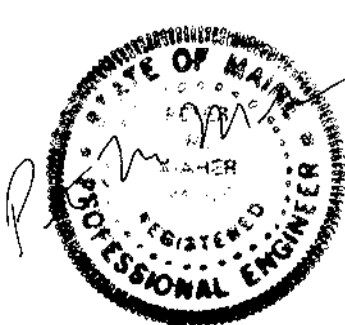
TYPICAL DIKE SECTION (4)
NTS YB-21003



INTERMEDIATE SLOPE COVER SECTION (6)
NTS YB-21005



FINAL COVER SECTION (7)
NTS YB-21005



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				8-18-94	RECORD DRAWING/CELL 8 CONSTRUCTION	CJE			
		B	1	8-4-93	ISSUED FOR BID	YH			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

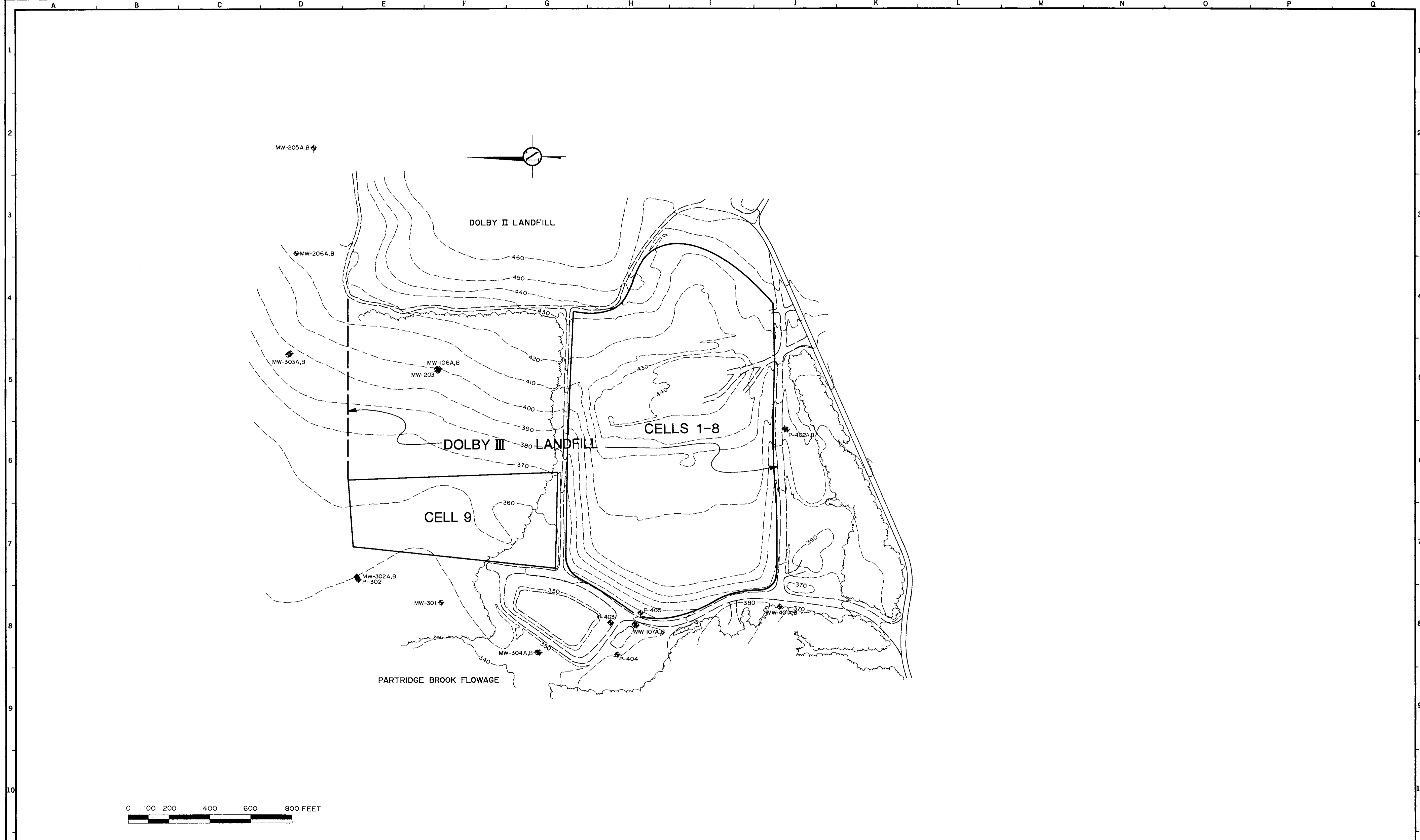
DRN PAF	6-93
CKD HHC	6-93
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. T.O.C. CONST	
SCALE NTS	



CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION
DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION
SECTIONS 8 & 9 DETAILS

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703.7082

YB-21006



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

JOB NO. 94028

BOWATER
 GREAT NORTHERN PAPER, INC.

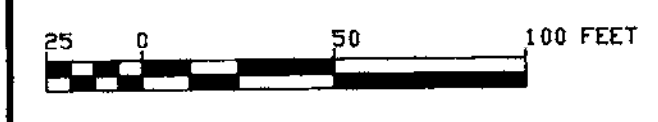
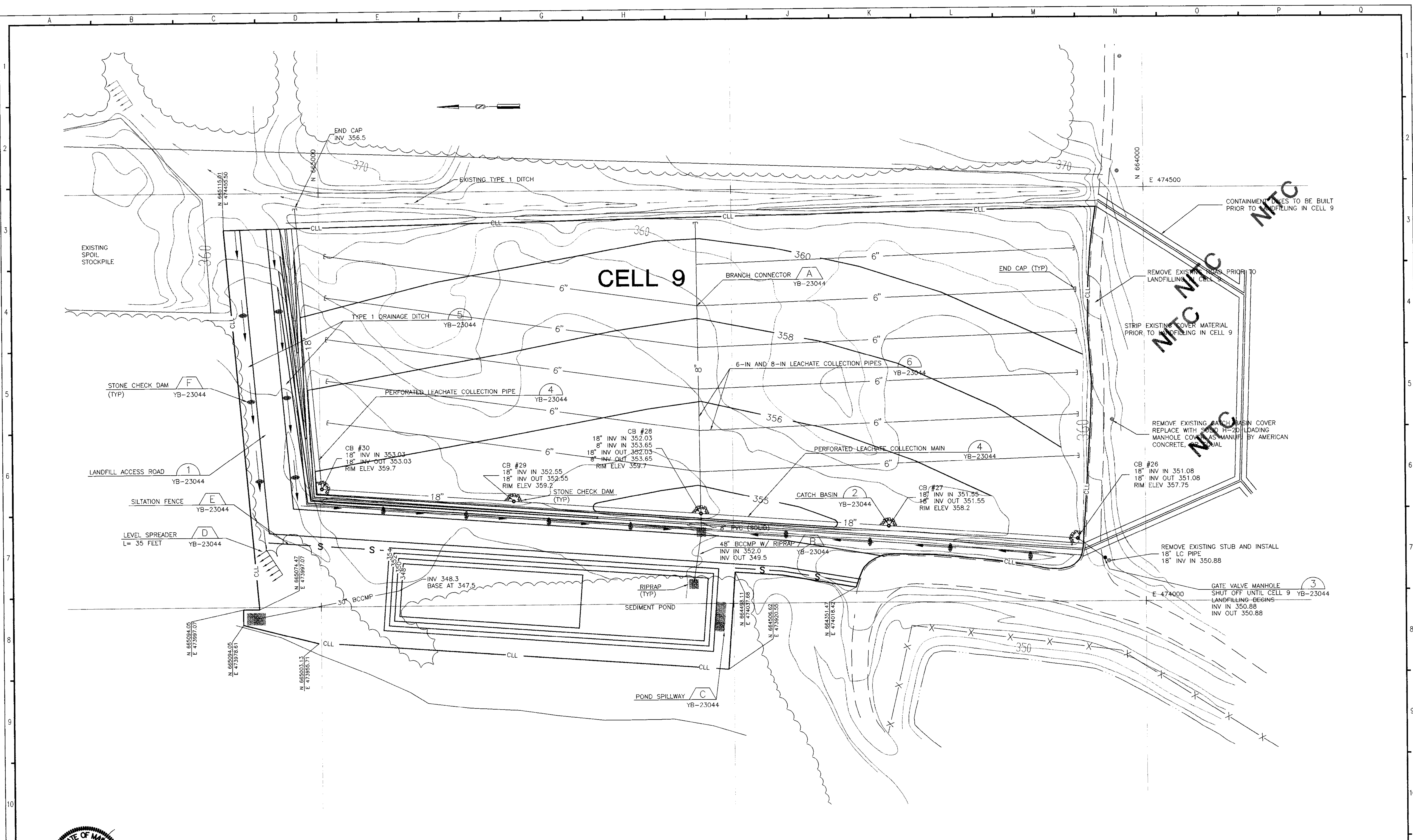
DRN	
CKD	
CKD	
CONR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. T.O.	C - CONST
SCALE 1" = 200'	

EAST OPERATION
 DOLBY III LANDFILL
 CELL 9 CONSTRUCTION
 SITE LOCATION PLAN

JOB NO. 94654
 ENG. REG. NO. _____
 FILE NO. 2-092-4703,7082

YB-23041

D:\GMP\ACAD\CELL9\GMP\CELL9.dwg, 12/15/21, 4:03:55



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				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

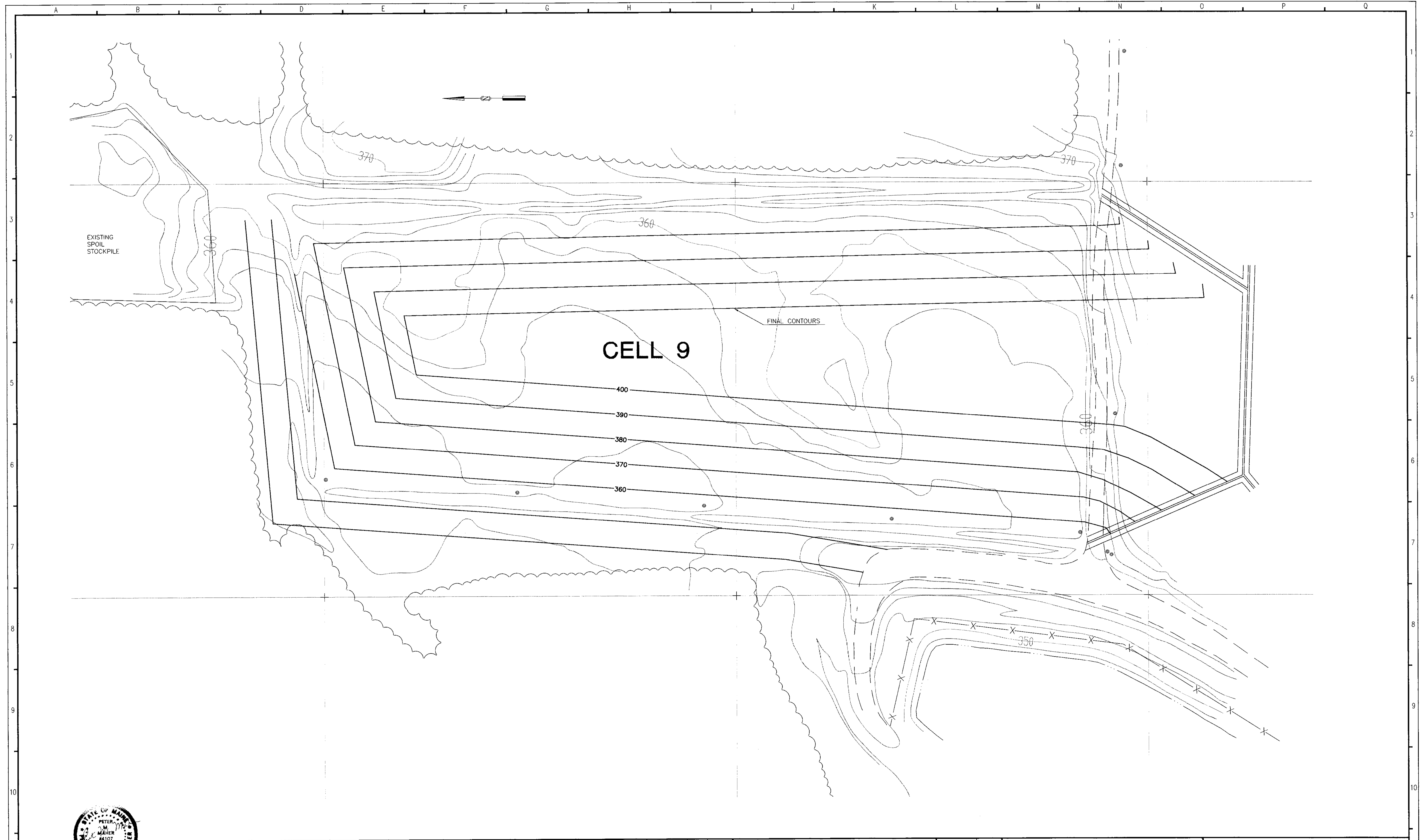
SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 94028

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - M.T.O.	C - Const.
SCALE AS SHOWN	



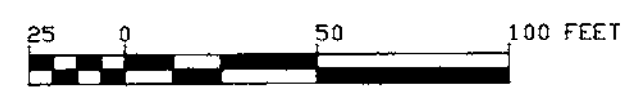
EAST OPERATION	
DOLBY III LANDFILL	
CELL 9 CONSTRUCTION	
SITE DEVELOPMENT PLAN	
JOB NO. 94654	YB-23042
ENG. REQ. NO.	
FILE NO. 2-092-4703.7082	



EXISTING SPOIL STOCKPILE

FINAL CONTOURS

CELL 9



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				94028
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

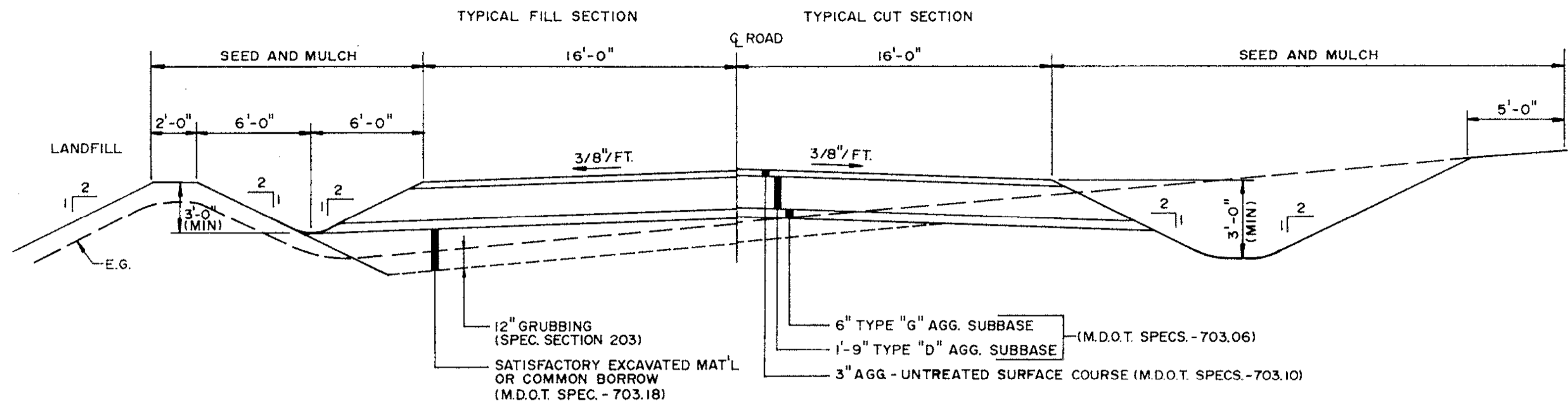
JOB NO. 94028

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CHK	
CHK	
CORR	
APPVD	

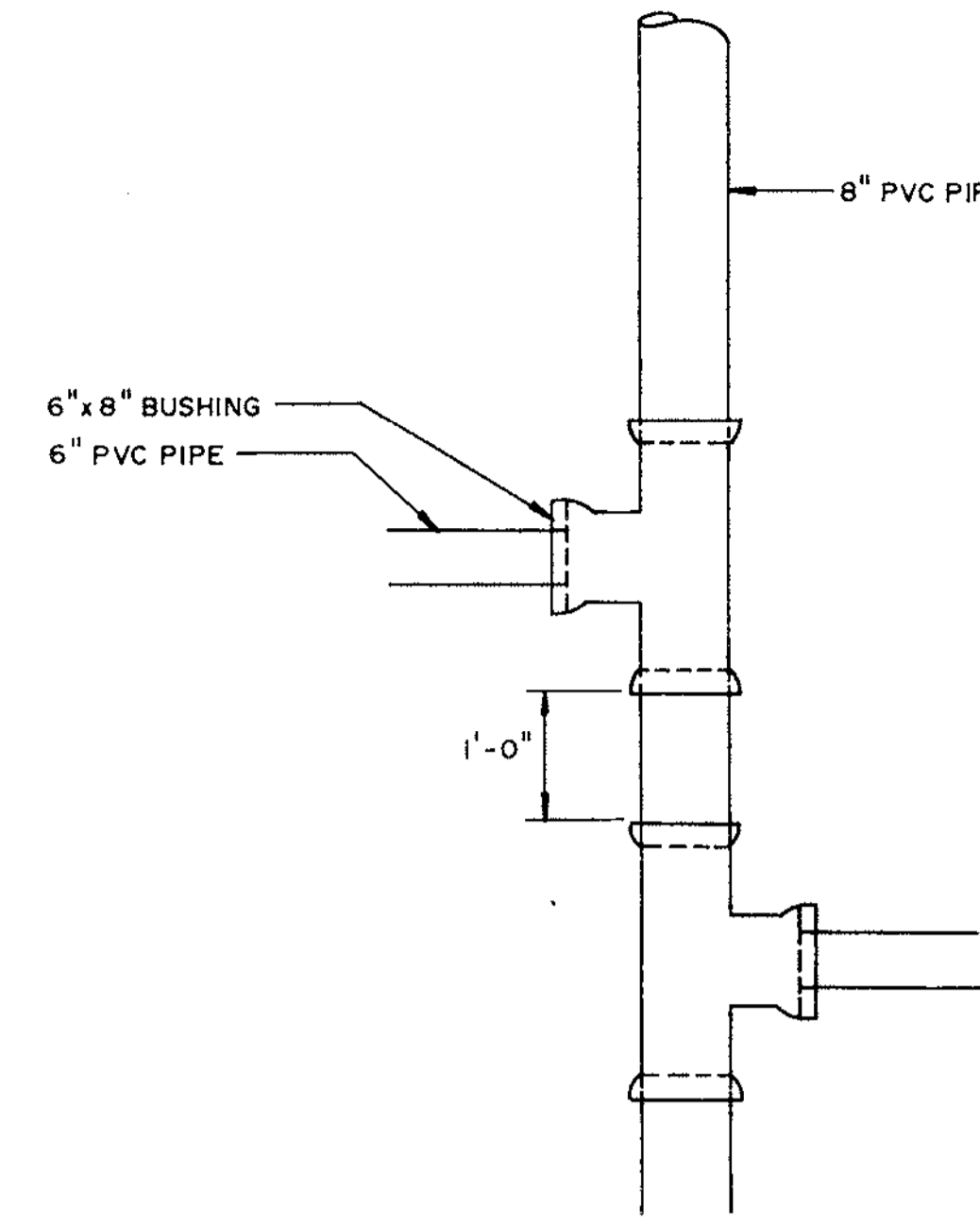
BOWATER
Great Northern Paper

EAST OPERATION
**DOLBY III LANDFILL
CELL 9 CONSTRUCTION**
FINAL GRADING PLAN
JOB NO. 94654
ENG. REG. NO. _____
FILE NO. 2-092-4703.7082
YB-23043

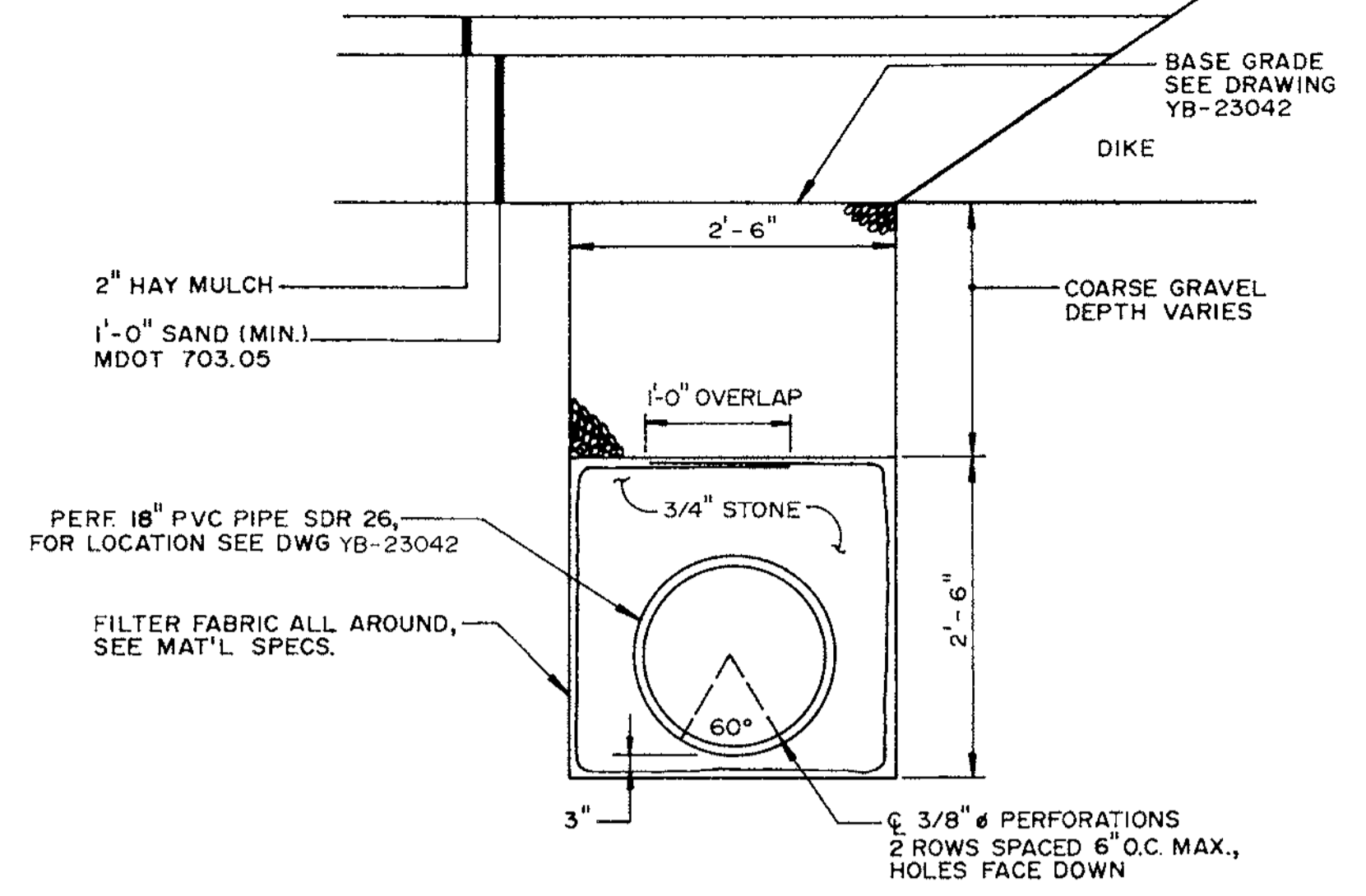
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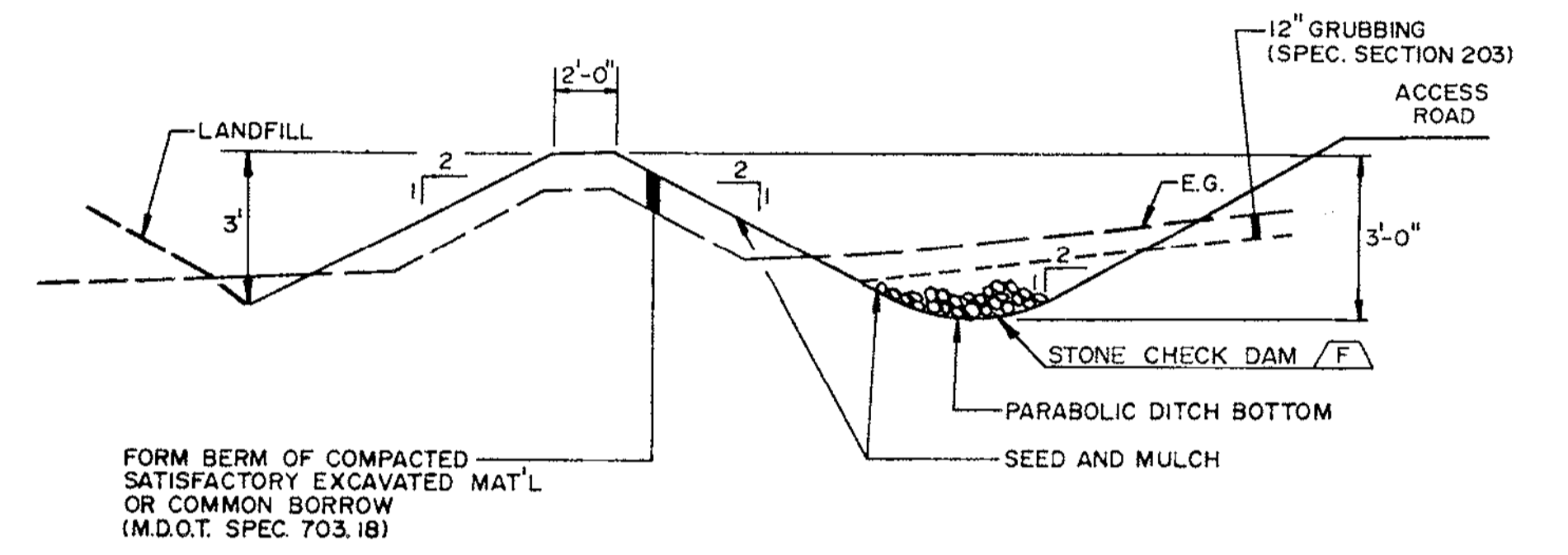
**TYPICAL SECTION
 LANDFILL ACCESS ROAD** (1)
 N.T.S. YB-23042



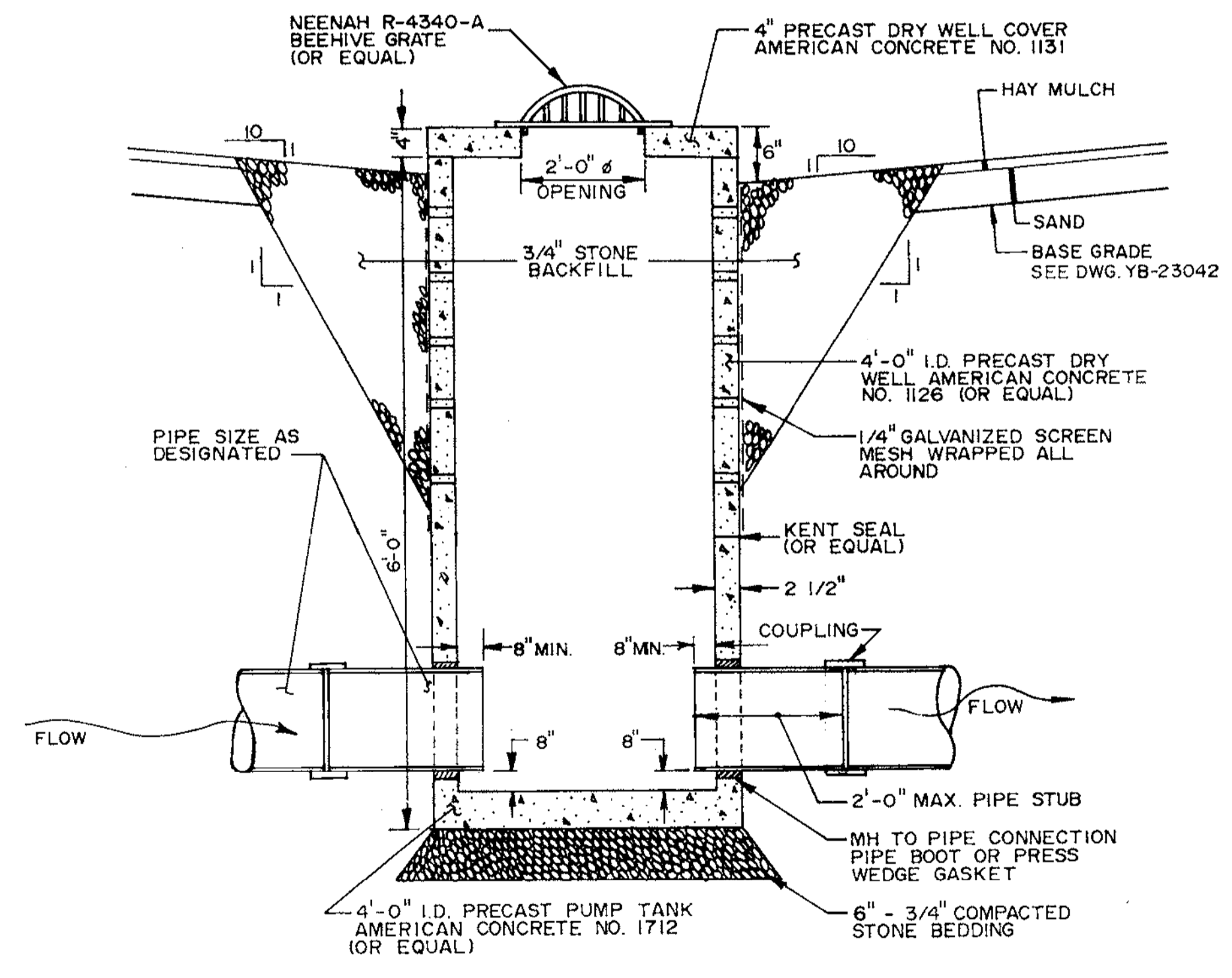
BRANCH CONNECTOR (A)
 N.T.S. YB-23042



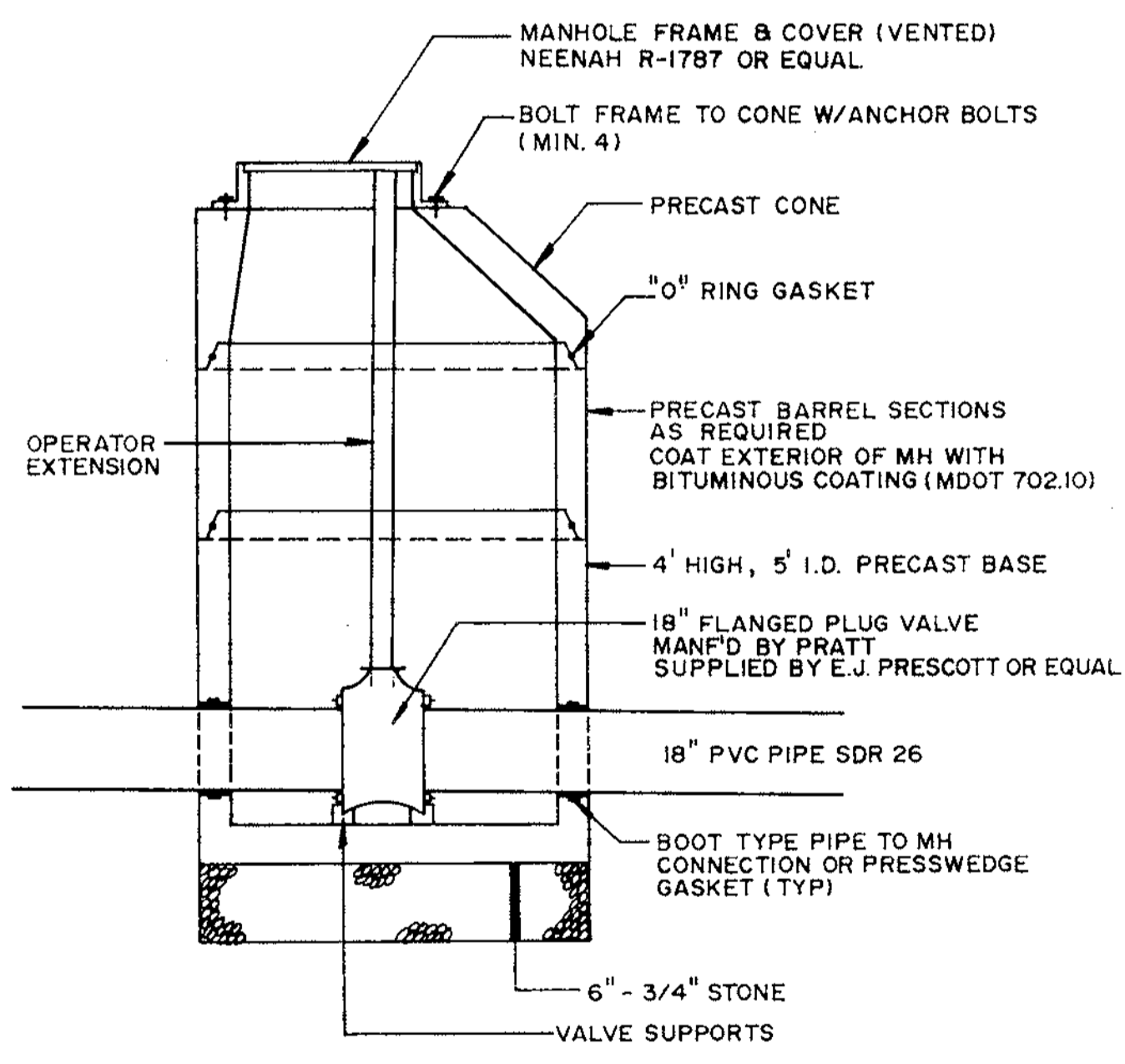
PERF. LEACHATE COLLECTION MAIN (4)
 N.T.S. YB-23042



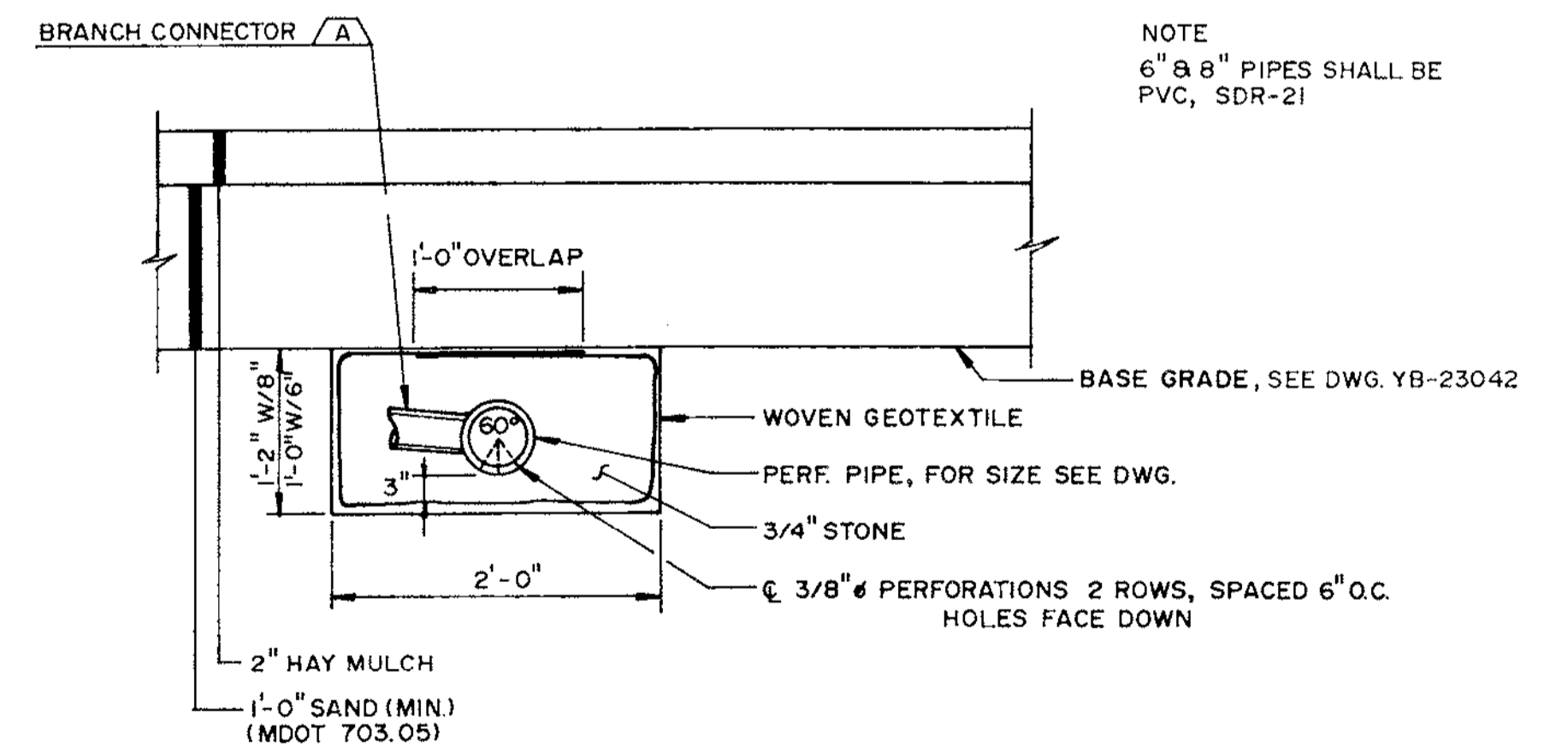
DIKE AND TYPE I DRAINAGE DITCH (5)
 N.T.S. YB-23042



CATCH BASIN (2)
 N.T.S. YB-23042



VALVE MANHOLE (3)
 N.T.S. YB-23042



6-IN. 8-IN. LEACHATE COLLECTION PIPES (6)
 N.T.S. YB-23042



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

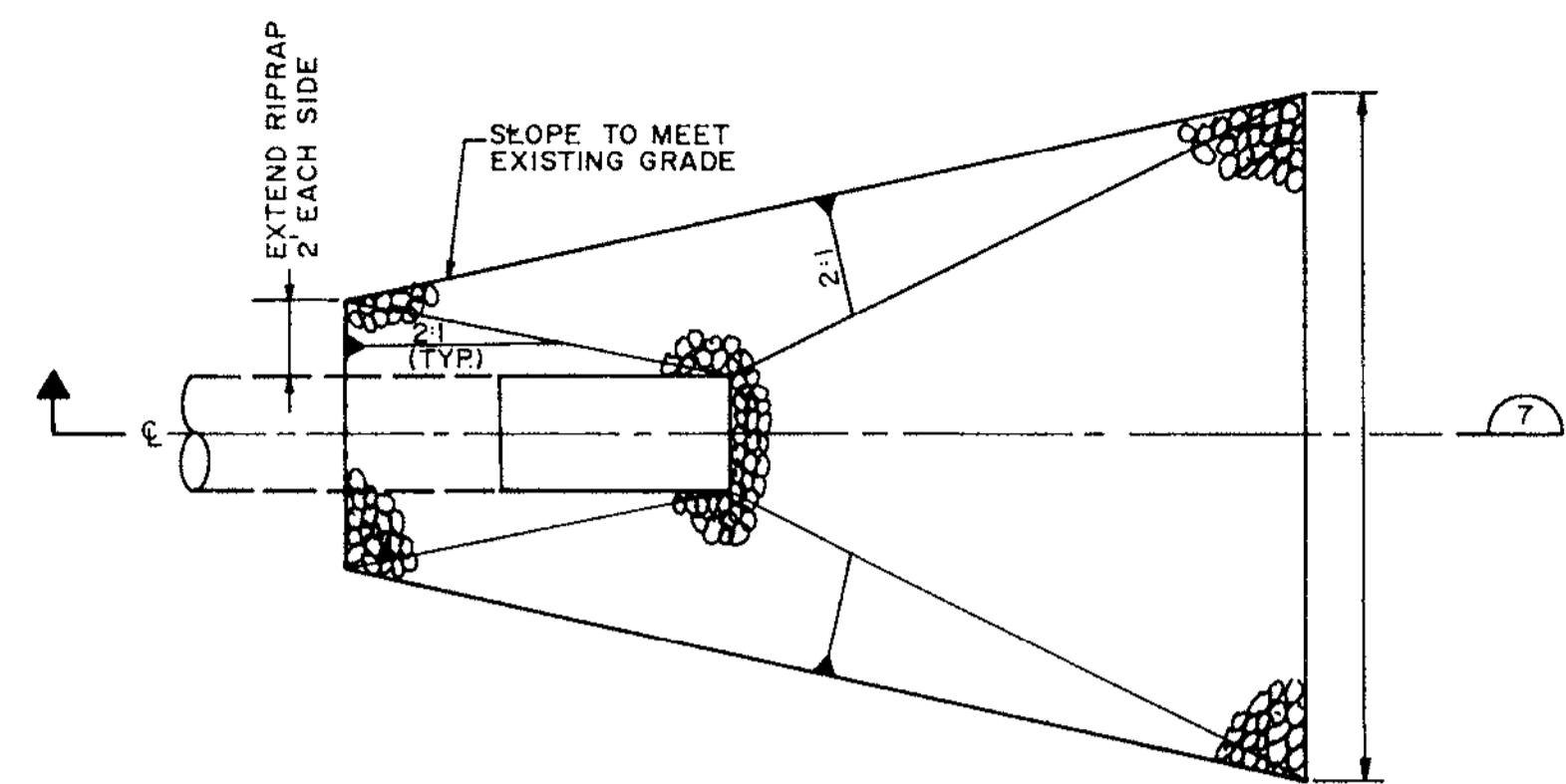
SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

JOB NO. 94028

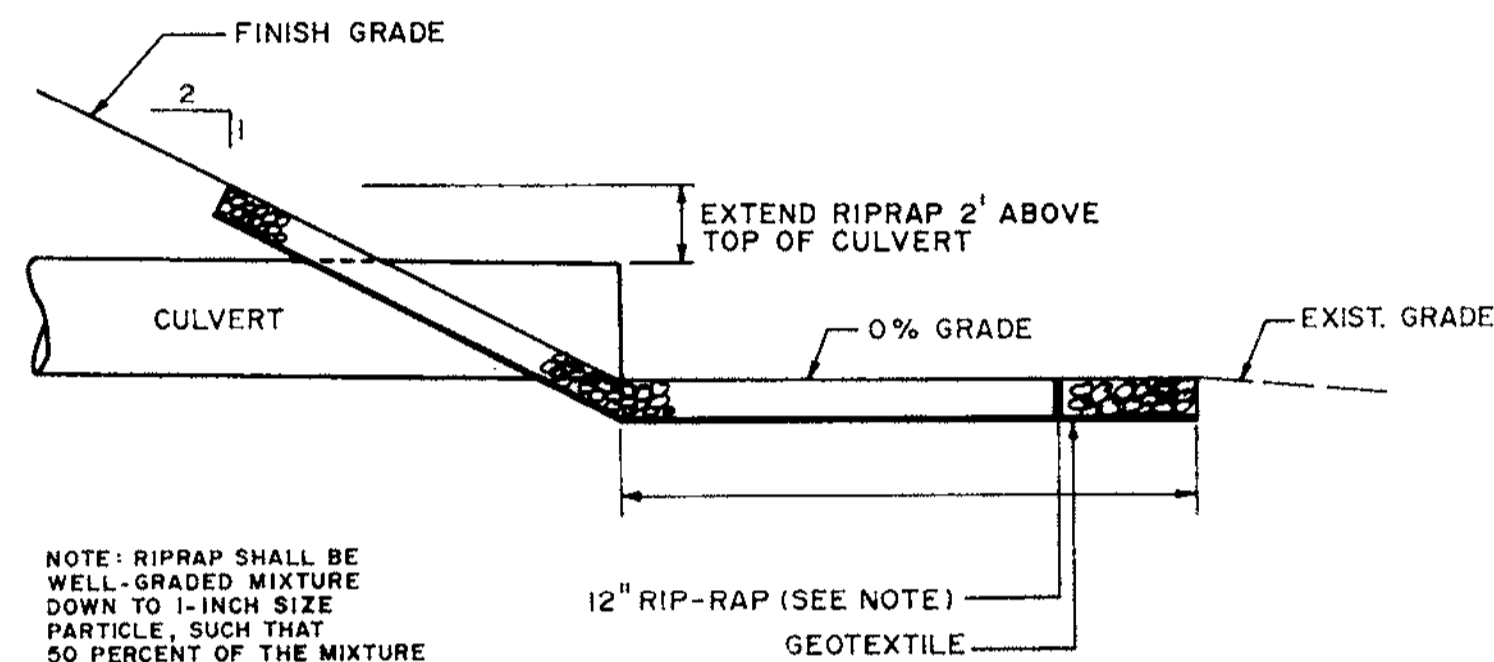
DRN	
CKD	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. O.C. CONST	
SCALE N.T.S.	



EAST OPERATION
 DOLBY III LANDFILL
 CELL 9 CONSTRUCTION
 SECTIONS & DETAILS
 JOB NO. 94654
 ENG. REQ. NO. _____
 FILE NO. 2-092-4703,7082
YB-23044
 SHEET 1 OF 2



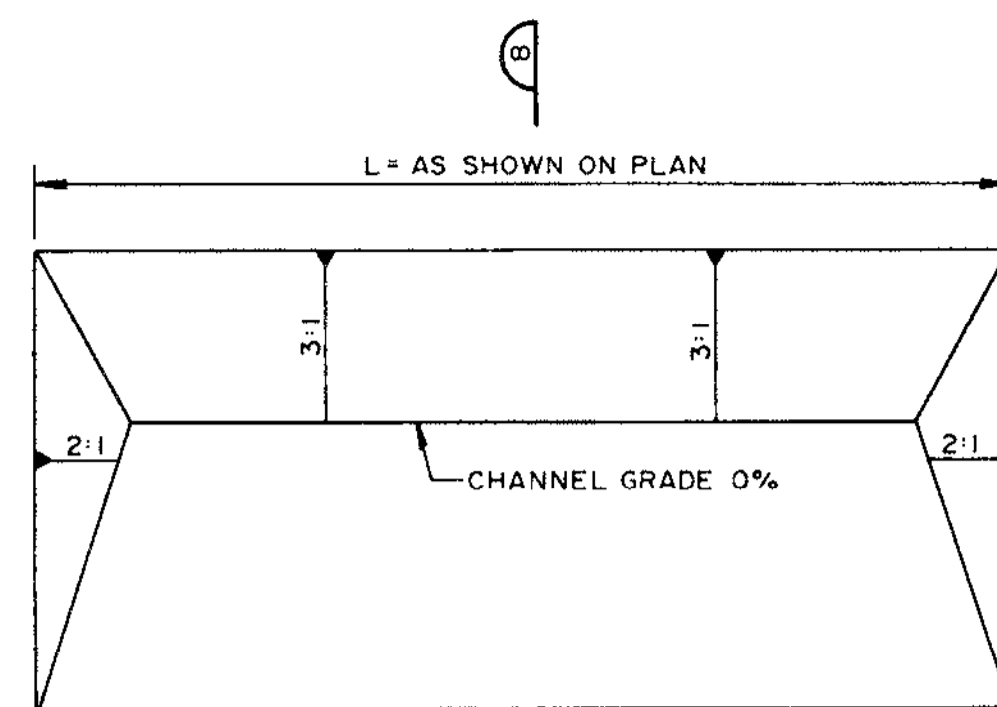
PLAN
N.T.S.



NOTE: RIPRAP SHALL BE WELL-GRADED MIXTURE DOWN TO 1-INCH SIZE PARTICLE, SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN 4."

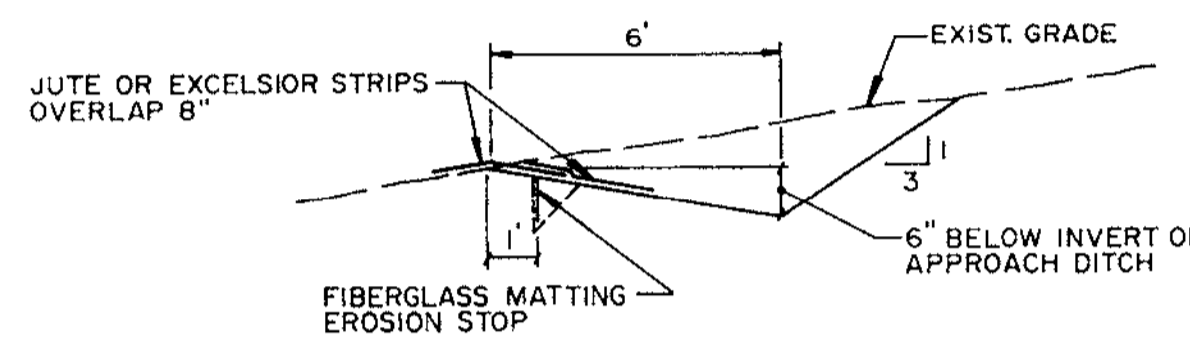
SECTION 7
N.T.S.

CULVERT W/ RIPRAP B
YB-23042



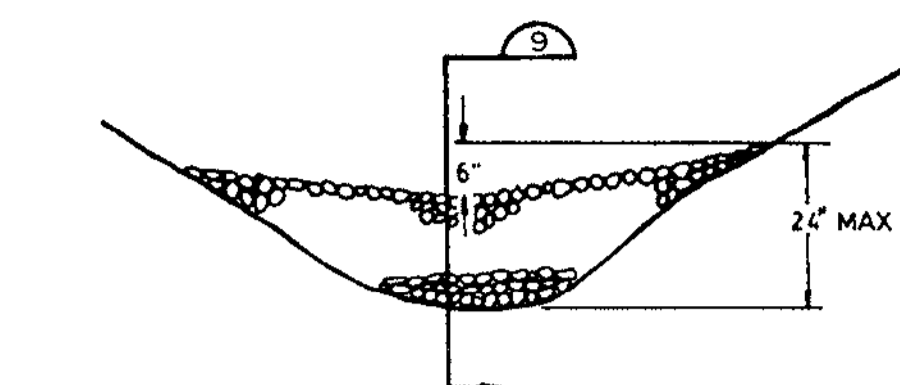
NOTE: LAST 20 FT. OF DRAINAGE DITCH NOT TO EXCEED 1% GRADE

PLAN
N.T.S.

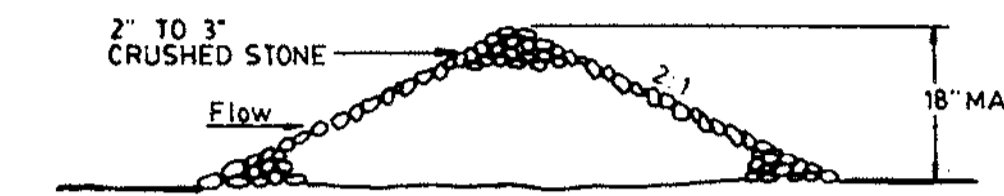


SECTION 8
N.T.S.

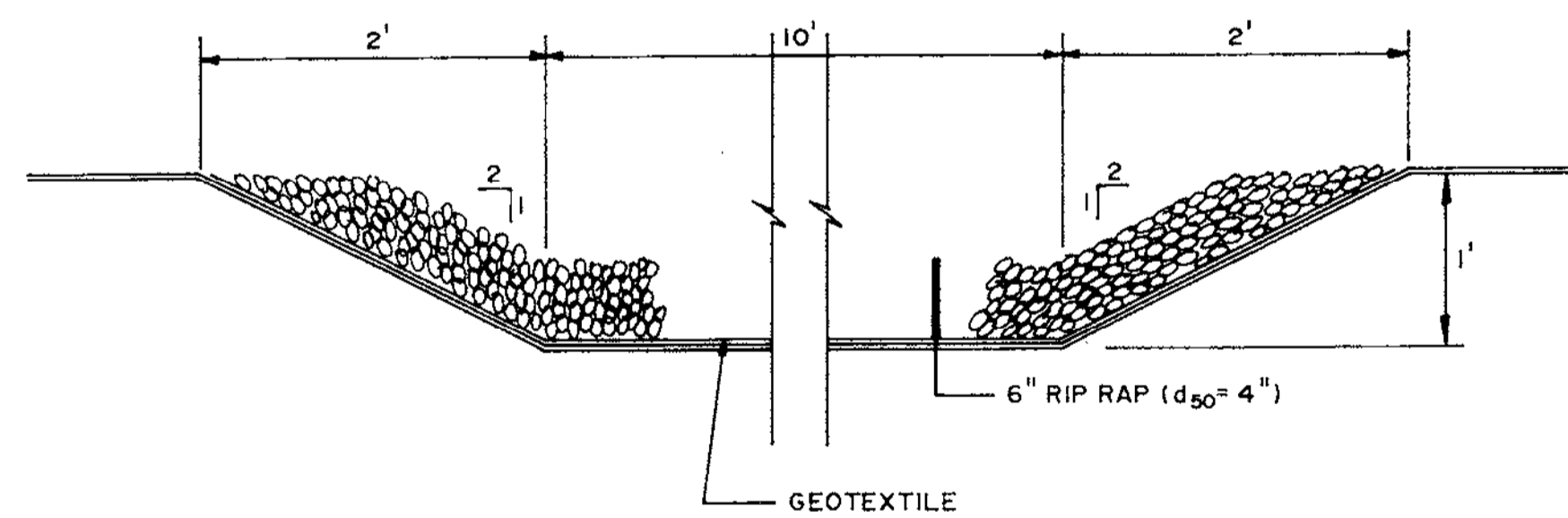
LEVEL SPREADER D
YB-23042



STONE CHECK DAM F
N.T.S. YB-23042

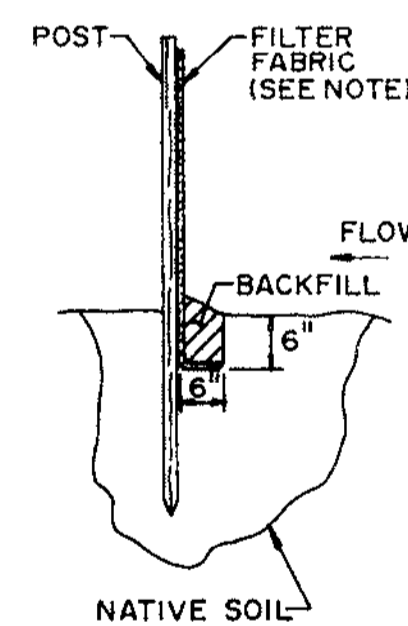


SECTION 9
N.T.S.

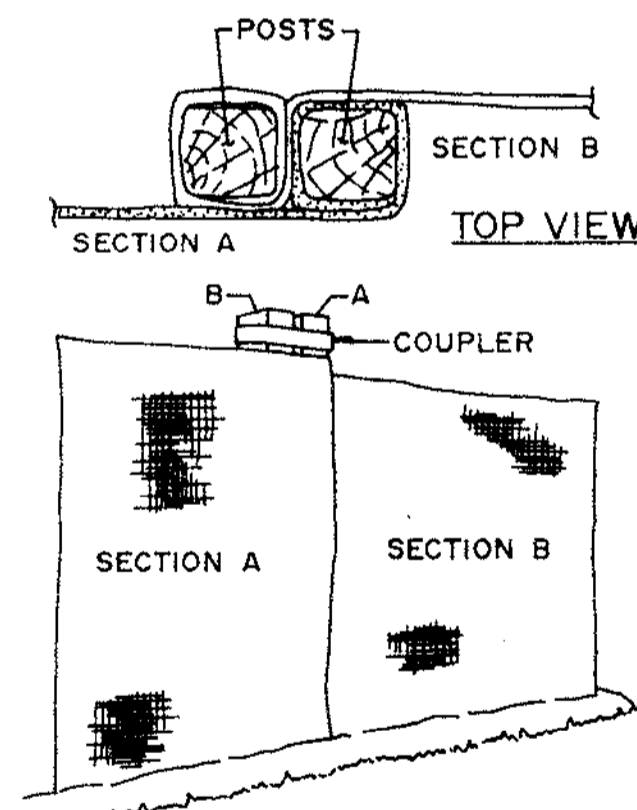


POND SPILLWAY C
N.T.S. YB-23042

NOTE: SILTATION FENCE SHALL BE ENVIROFENCE AS MANF. BY MIRAFI INC., PROPEX SILT STOP AS MANF. BY AMOCO FABRICS CO. OR EQUAL



TOE-IN DETAIL



JOINING SECTIONS

SILTATION FENCE E
N.T.S. YB-23042



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 94028

DRN	
CKD	
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. T.O.C. - CONST.	
SCALE	N.T.S.



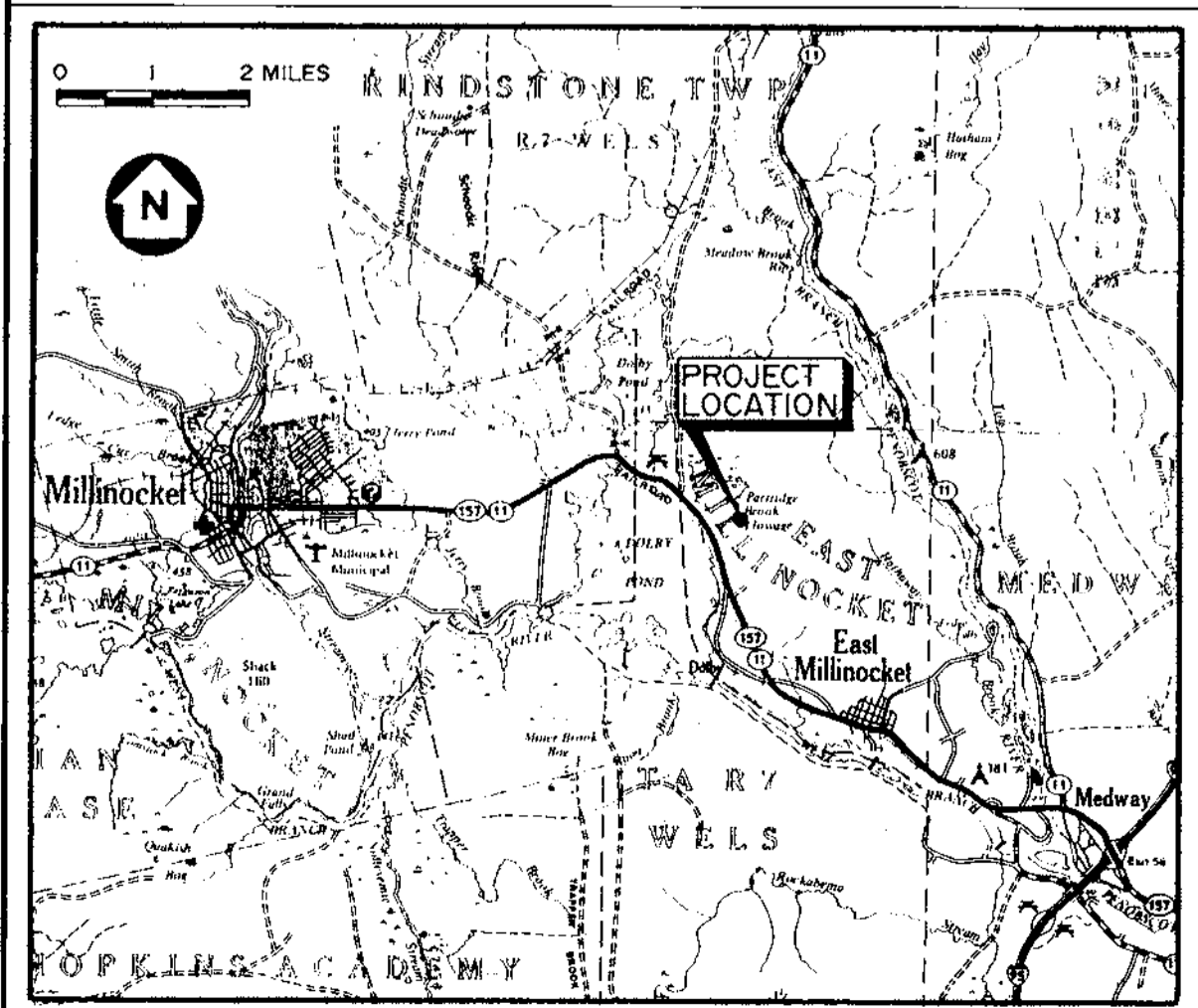
EAST OPERATION
DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SECTIONS & DETAILS
JOB NO. 94654
ENG. REQ. NO. _____
FILE NO. 2-092-4703, 7082
YB-23044
SHEET 2 OF 2

GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY III LANDFILL CELL 10 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-23378
2	SYMBOLS & ABBREVIATIONS	YB-23379
3	SITE LOCATION PLAN	YB-23380
4	CELL 10 - SITE DEVELOPMENT PLAN	YB-23381
5	CELLS 7 & 8 CLOSURE - FINAL GRADING PLAN	YB-23382
6	CELL 10 - FINAL GRADING PLAN	YB-23383
7	SECTIONS & DETAILS	YB-23384 SHEET 1 OF 2
8	SECTIONS & DETAILS	YB-23384 SHEET 2 OF 2

**SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE**

1995



<p>SEVEE & MAHER ENGINEERS, INC. CONSULTING ENGINEERS CUMBERLAND CENTER, MAINE</p> <p>JOB NO. 95019</p>	<table border="1"> <tr><td>DRN</td><td></td></tr> <tr><td>CHK</td><td></td></tr> <tr><td>CHK</td><td></td></tr> <tr><td>CORR</td><td></td></tr> <tr><td>APPVD</td><td></td></tr> <tr><td colspan="2">ISSUE CODE</td></tr> <tr><td>P - Prelim</td><td>B - Bids</td></tr> <tr><td>M - Mtl T.O.</td><td>C - Const.</td></tr> <tr><td>SCALE</td><td></td></tr> </table>	DRN		CHK		CHK		CORR		APPVD		ISSUE CODE		P - Prelim	B - Bids	M - Mtl T.O.	C - Const.	SCALE		<p>BOWATER Great Northern Paper</p>	<p>EAST OPERATION</p> <p>DOLBY III LANDFILL CELL 10 CONSTRUCTION</p> <p>COVER SHEET</p> <p>JOB NO. _____ ENG. REQ. NO. _____ FILE NO. 2-092-4703,7082</p> <p style="font-size: 1.5em; font-weight: bold;">YB-23378</p>
DRN																					
CHK																					
CHK																					
CORR																					
APPVD																					
ISSUE CODE																					
P - Prelim	B - Bids																				
M - Mtl T.O.	C - Const.																				
SCALE																					

D:\WORK\ACAD\PLT\10\GNPC0110 Tue May 23 09:35:02 1995

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
	NORTH ARROW (MAGNETIC)		STONE WALL		MANHOLE
	NORTH ARROW (PLAN NORTH)		DRAINAGE COURSE (WITH DIRECTION)		CATCH BASIN
	CONTOUR LINES		EDGE OF WATER		WATER VALVE
	SPOT ELEVATION (GRADE)		WATER ELEVATION (GROUND OR SURFACE)		HYDRANT
	EXISTING GROUND		FENCE LINE (WOOD)		UTILITY POLE
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		FENCE LINE (WIRE)		CLEAN OUT STRUCTURE
	PROPERTY LINE OR R.O.W.		RETAINING WALL		UNDERGROUND GAS MAIN
	PROPERTY LINE W/ BEARING AND DISTANCE		GUARD RAIL		UNDERGROUND TELEPHONE LINE
	CONSTRUCTION BASELINE		BUILDING AND STRUCTURES		UNDERGROUND ELECTRICAL LINE
	BOUNDARY LINE (State, County, Municipality)		SLOPE RATIO (HORIZONTAL TO VERTICAL)		OVERHEAD ELECTRICAL LINE
	SURVEY MONUMENT		SLOPES (WITH SLOPE RATIO)		SANITARY SEWER, SIZE & TYPE
	SURVEY IRON		EDGE OF TRAVELLED WAY		FORCE MAIN, SIZE & TYPE
	DRILL HOLE, PK, OR STAKE		CUT OR FILL LINE		WATER MAIN, SIZE & TYPE
	WOODS OR BRUSH LINE		CONSTRUCTION LIMIT LINE		STORM DRAIN, SIZE & TYPE
	INDIVIDUAL TREE (Deciduous)		BITUMINOUS PAVEMENT		UNDERDRAIN, SIZE & TYPE
	INDIVIDUAL TREE (Coniferous)		CONCRETE		CULVERT
	TREE, TO BE REMOVED		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		RAILROAD
	MARSH AREA		TEST PIT AND NUMBER		SILTATION FENCE

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW - MDOT SPECIFICATION 703.18
ROADWAY SUBBASE - MDOT SPECIFICATION 703.06 TYPE "D"
ROADWAY SUBBASE - MDOT SPECIFICATION 703.06 TYPE "G"
ROADWAY SURFACE COURSE - MDOT SPECIFICATION 703.10

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET - MDOT SPECIFICATION 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE - SDR 21

12" PVC PIPE - SDR 26

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 10 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED: TALL FESCUE 59%
RED FESCUE 25%
RED TOP 5%
LADINO CLOVER 3%
ANNUAL RYEGRASS 8%

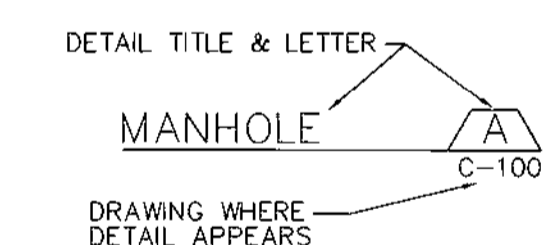
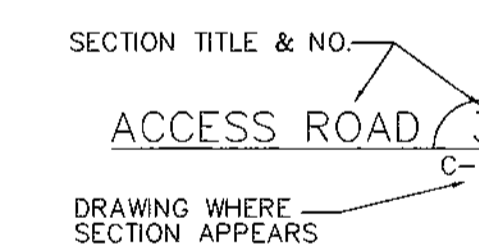
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

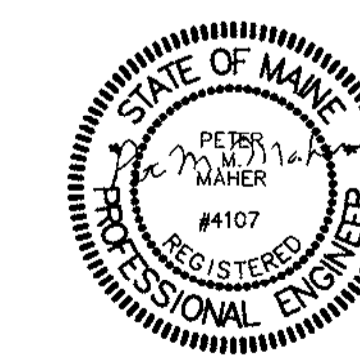
INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION



A.C.C.M.P.	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE (ARC DEF.)	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	P.I.	POINT OF INTERSECTION
AC	ACRE	DEG OR °	DEGREE	HYD	HYDRANT	P.T.	POINT OF TANGENT
AGG	AGGREGATE	DEPT	DEPARTMENT	I.D.	INSIDE DIAMETER	PERF	PERFORATED
ALUM	ALUMINUM	DI	DIAMETER	IN OR "	INCHES	PSI	POUNDS PER SQUARE INCH
APPD	APPROVED	DIA OR Ø	DIA	INV	INVERT	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	DIM	DIMENSION	INV. EL	INVERT ELEVATION	PVMT	PAVEMENT
ASB	ASBESTOS	DIST	DISTANCE	LB	POUND	QTY	QUANTITY
ASPH	ASPHALT	DN	DOWN	LC	LEACHATE COLLECTION	R.O.W.	RIGHT OF WAY
AUTO	AUTOMATIC	DR	DRAIN	LD	LEAK DETECTION	RAD	RADIUS
AUX	AUXILIARY	DWG	DRAWING	LD	LEAK DETECTION	REQD	REQUIRED
AVE	AVENUE	EA	EACH	LOC	LOCATION	RT	RIGHT
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LT	LEFT	RTE	ROUTE
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	ELEC	ELECTRIC	M.H.	MANHOLE	S	SLOPE
B.M.	BENCH MARK	EL	ELEVATION	M.J.	MECHANICAL JOINT	SCH	SCHEDULE
BIT	BITUMINOUS	ELB	ELBOW	MATI	MATERIAL	SF	SQUARE FEET
BLDG	BUILDING	EQUIP	EQUIPMENT	MAX	MAXIMUM	SD	STORM DRAIN
BOT	BOTTOM	EST	ESTIMATED	MFR	MANUFACTURE	SDR	STANDARD DIMENSION RATIO
BRG	BEARING	EXC	EXCAVATE	MIN	MINIMUM	SHT	SHEET
C.B.	CATCH BASIN	EXIST	EXISTING	MISC	MISCELLANEOUS	STA	STATION
CEN	CENTER	F.G.	FINISH GRADE	MON	MONUMENT	SY	SQUARE YARD
CEM. LIN.	CEMENT LINED	FBRGL	FIBERGLASS	N.I.T.C.	NOT IN THIS CONTRACT	TAN	TANGENT
C.M.P.	CORRUGATED METAL PIPE	FDN	FOUNDATION	N.T.S.	NOT TO SCALE	TDH	TOTAL DYNAMIC HEAD
C.O.	CLEAN OUT	FLEX	FLEXIBLE	N/F	NOW OR FORMERLY	TEMP	TEMPORARY
CF	CUBIC FEET	FLG	FLANGE	NO. OR #	NUMBER	TYP	TYPICAL
CFS	CUBIC FEET PER SECOND	FLR	FLOOR	O.C.	ON CENTER	V	VOLTS
CI	CAST IRON	FPS	FEET PER SECOND	O.D.	OUTSIDE DIAMETER	W/	WITH
CL	CLASS	FT OR '	FEET			W/O	WITHOUT
CONC	CONCRETE	FTG	FOOTING			YD	YARD
CONST	CONSTRUCTION	GAL	GALLON				
CONTR	CONTRACTOR	GALV	GALVANIZED				
CTR	CENTER	GPD	GALLONS PER DAY				
CY	CUBIC YARD	GPM	GALLONS PER MINUTE				



SEVEE & MAHER ENGINEERS, INC.

CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

EAST OPERATION

DOLBY III LANDFILL
CELL 10 CONSTRUCTION

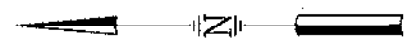
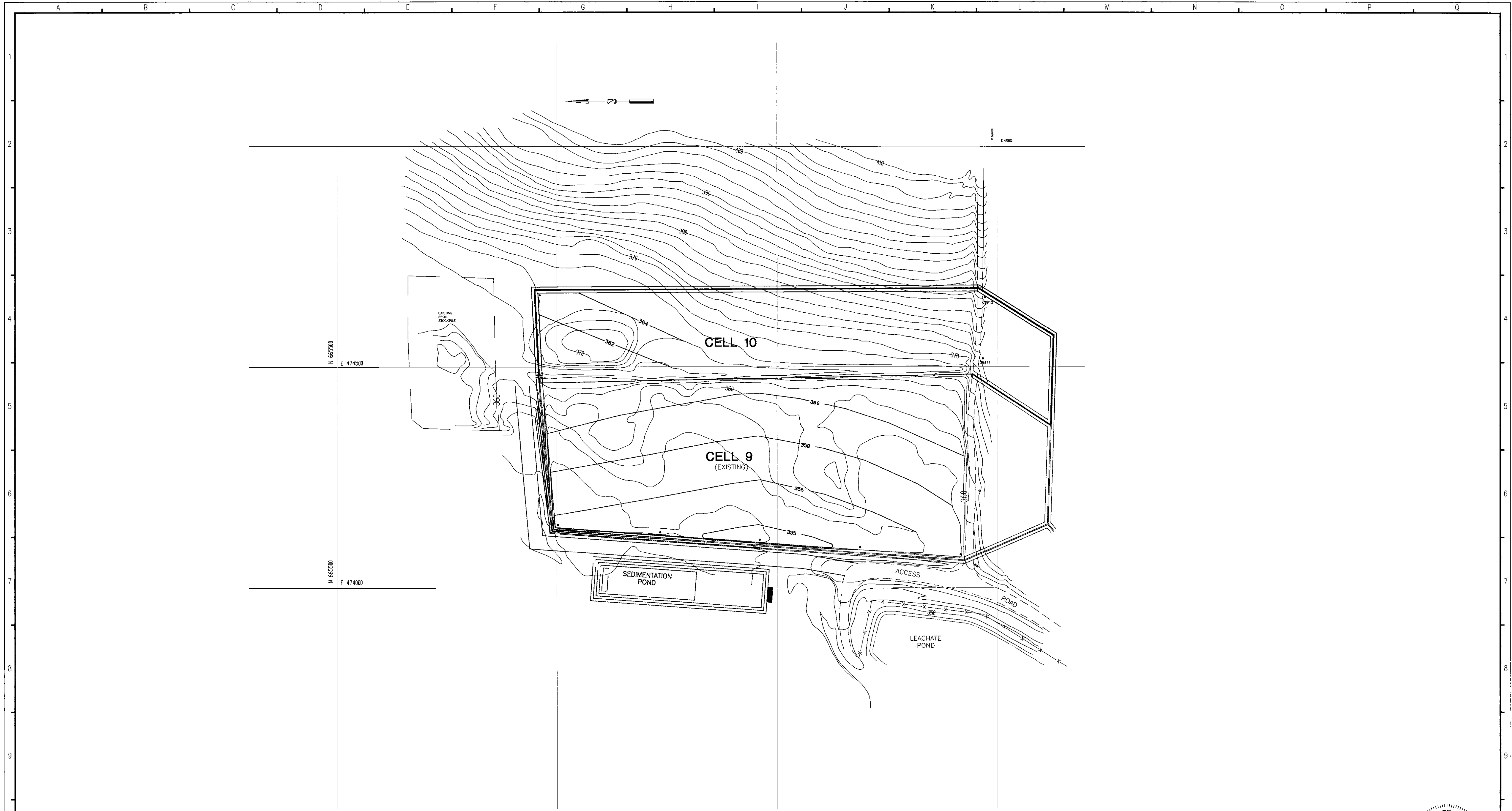
SYMBOLS & ABBREVIATIONS

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703,7082

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mfr T.O.	C - Const.
SCALE	



YB-23379



N 665500
E 474500
N 665500
E 474000

EXISTING SPILL STRUCTURE

CELL 10

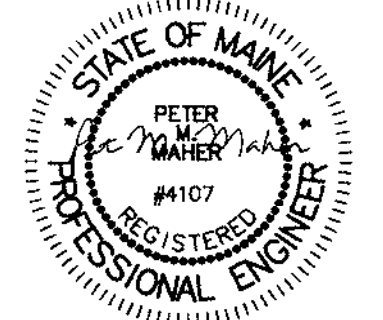
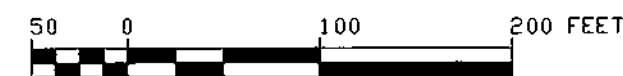
CELL 9
(EXISTING)

SEDIMENTATION POND

ACCESS

ROAD

LEACHATE POND



YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION																			
YB-23042	DOLBY III LANDFILL AREA, CELL 9 CONSTRUCTION, SITE DEVELOPMENT PLAN																			
				5/95	SUBMITTED FOR BID															
				4/95	SUBMITTED TO CLIENT															
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.											

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mtl T.O.	C - Const.
SCALE AS SHOWN	



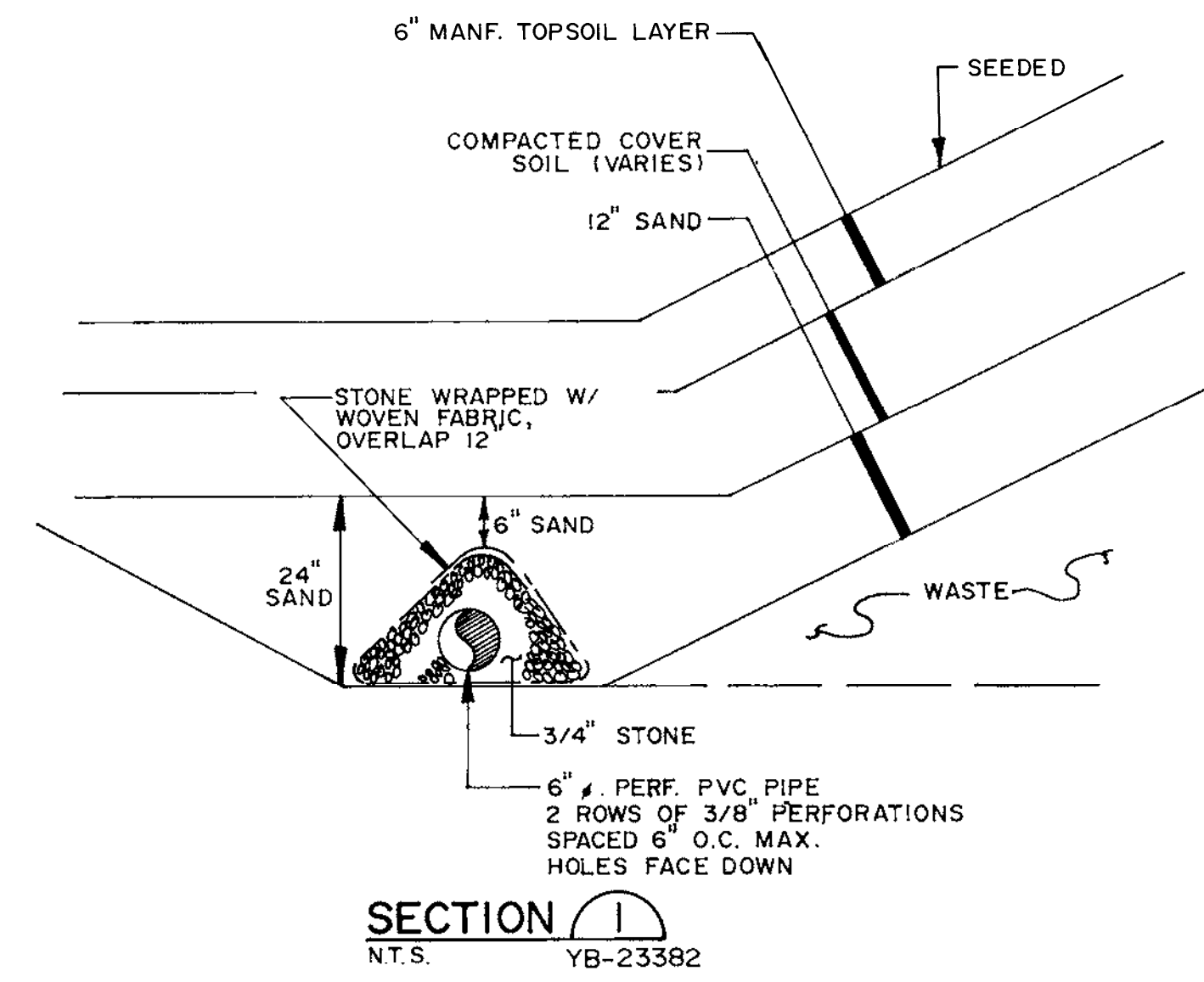
EAST OPERATION

DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SITE LOCATION PLAN

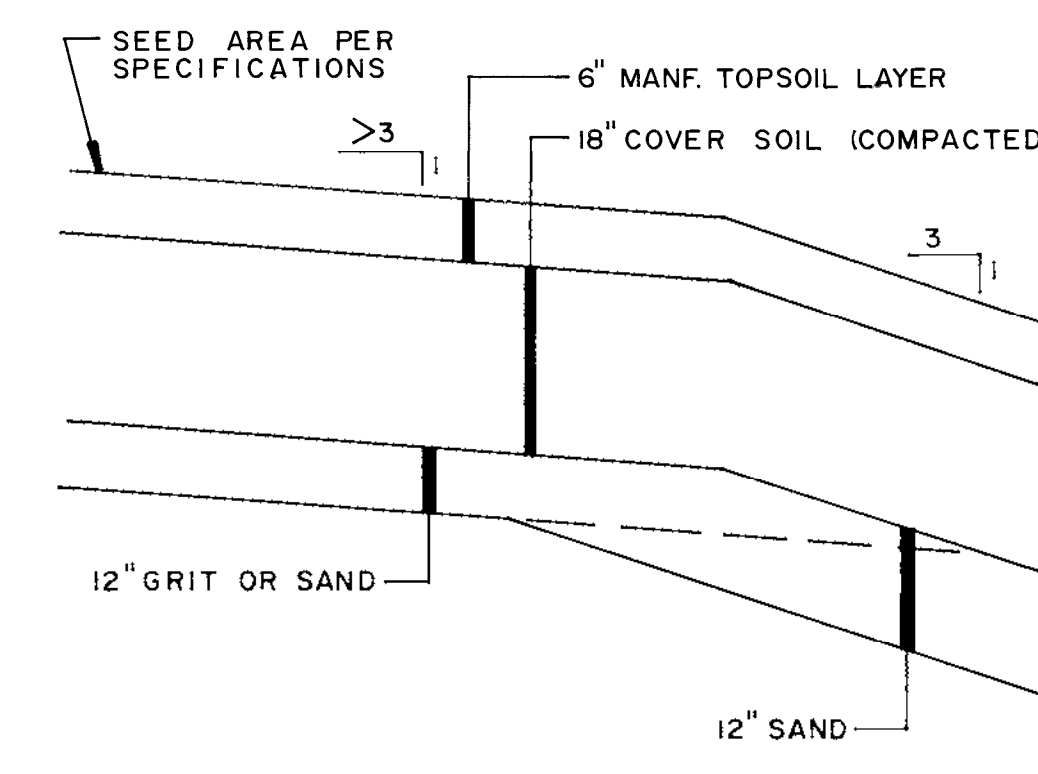
JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703,7082

YB-23380

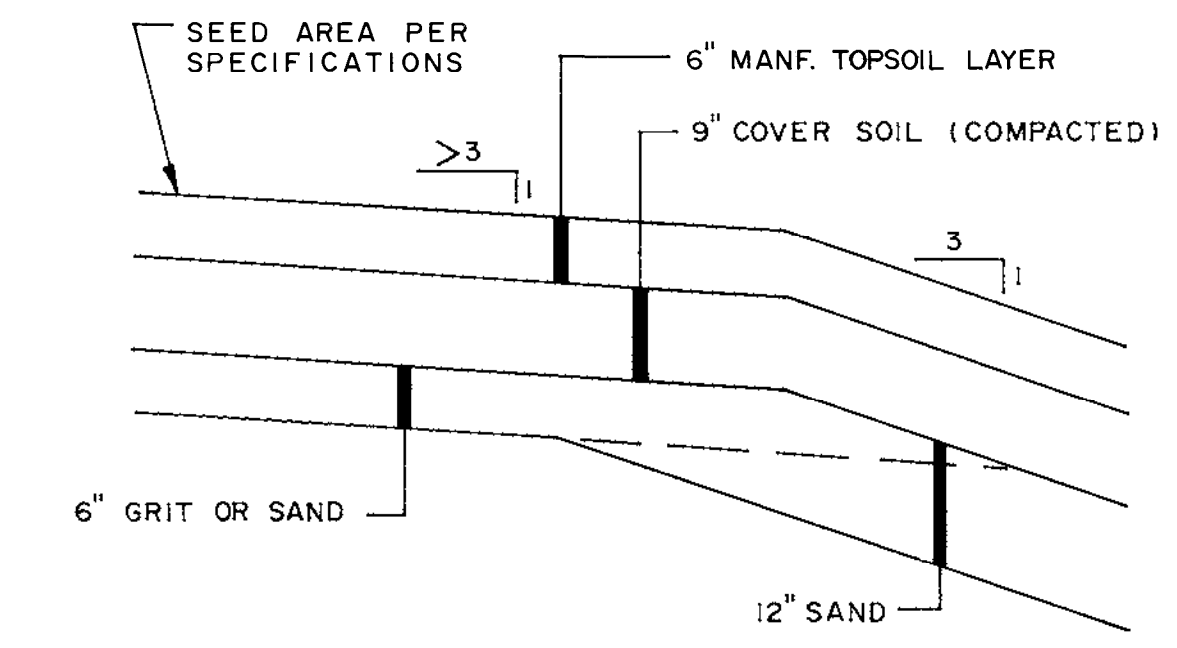
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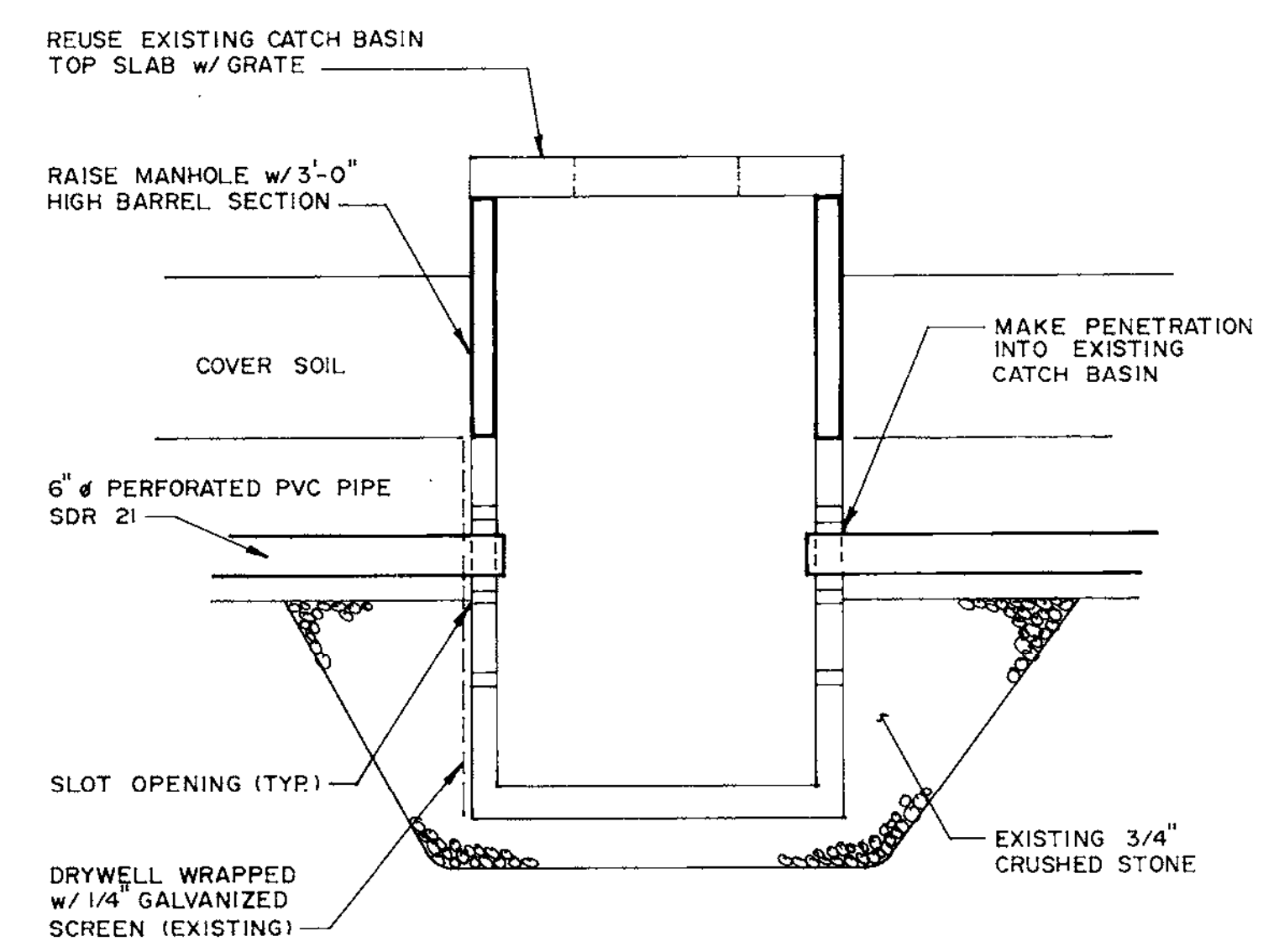
SECTION 1
N.T.S. YB-23382



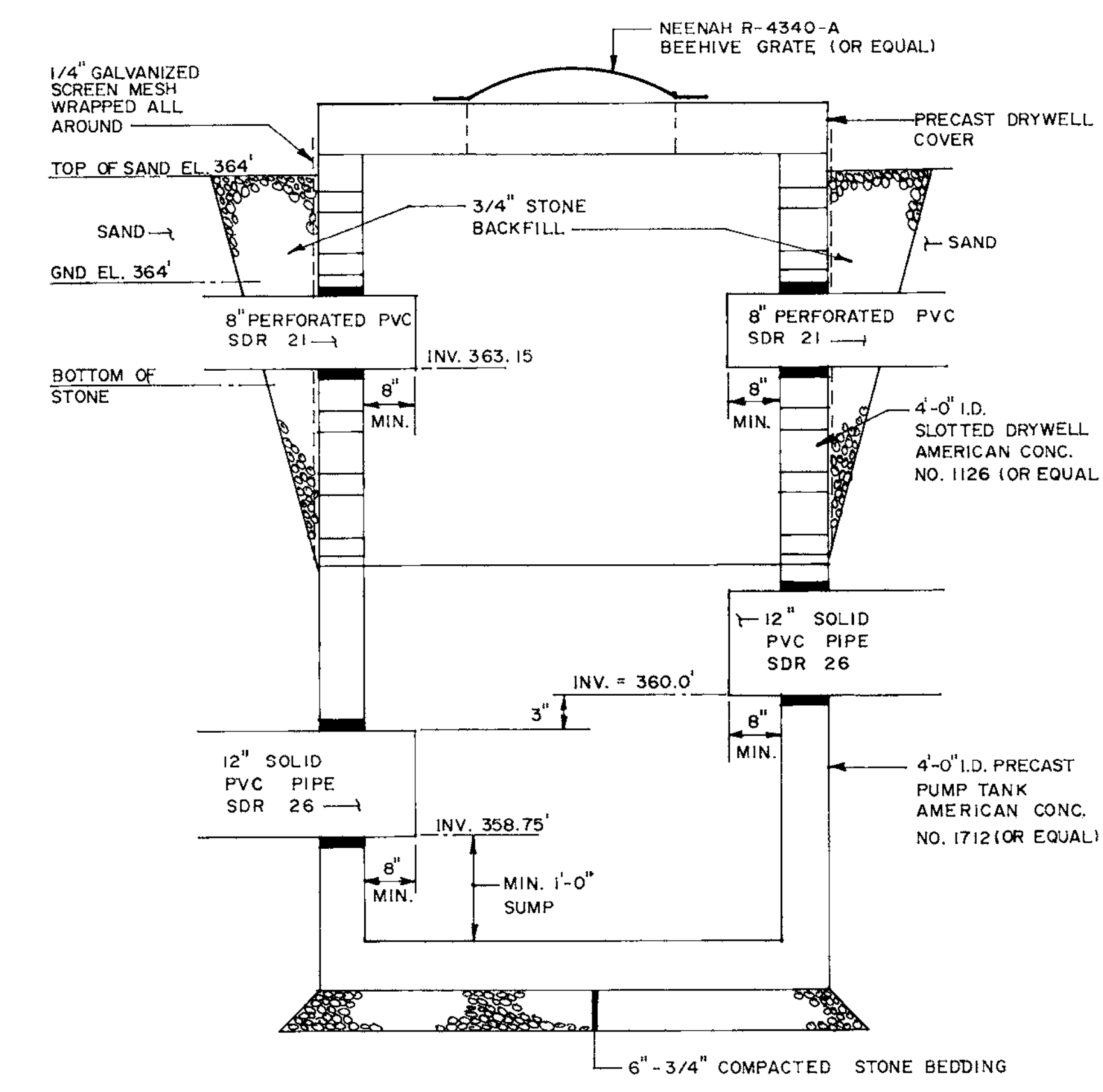
FINAL COVER SECTION 2
N.T.S. YB-23382



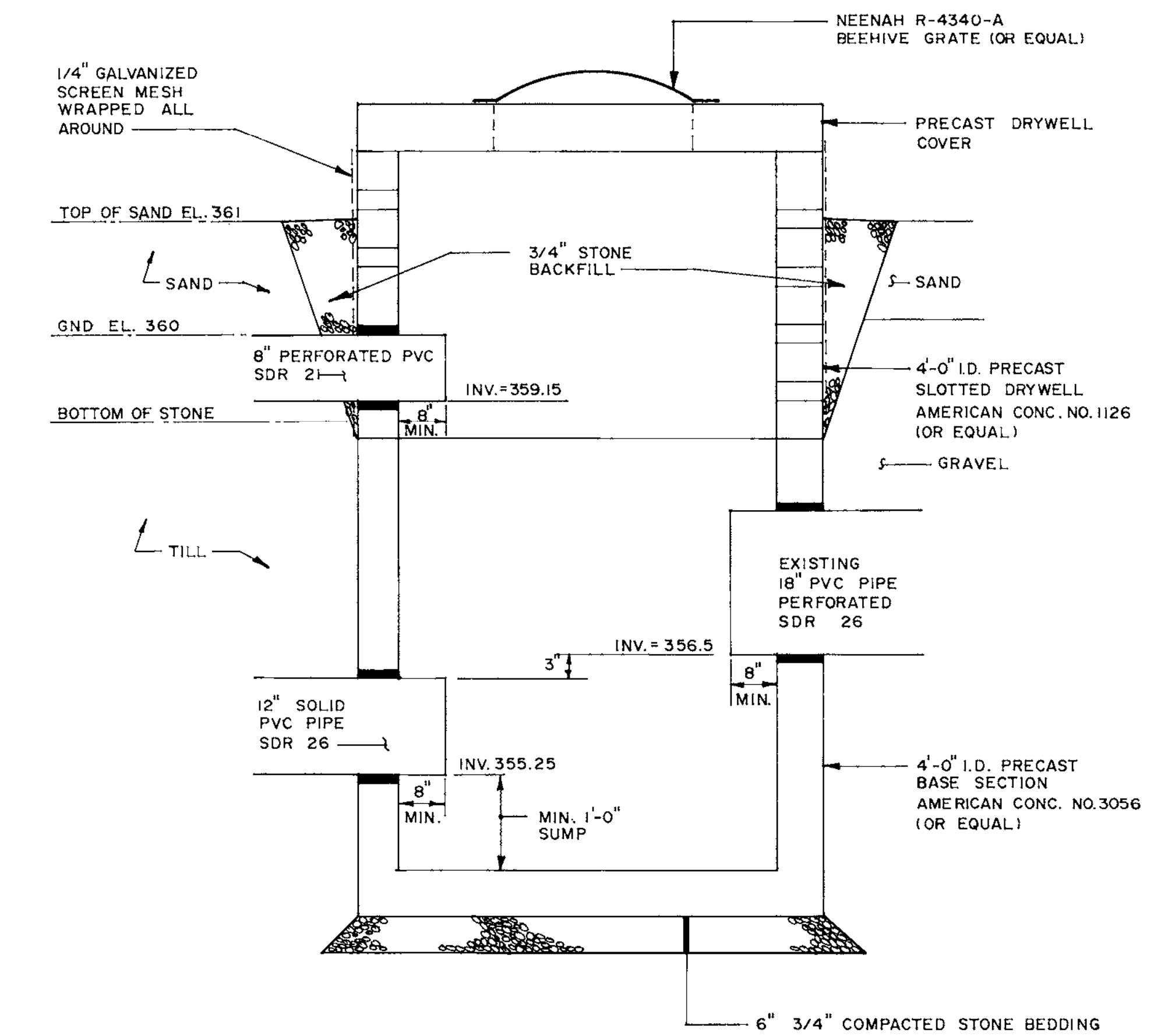
INTERMEDIATE SLOPE COVER SECTION 3
N.T.S. YB-23382



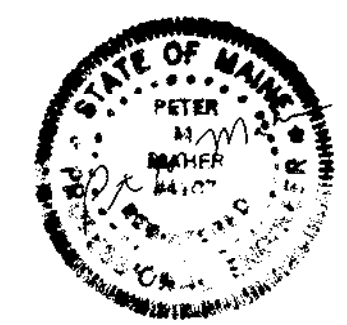
DRAINAGE MANHOLE 4
N.T.S. (EXISTING) YB-23382



CATCH BASIN # 32 A
N.T.S. YB-23381



CATCH BASIN # 31 B
N.T.S. YB-23381



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		C		8/95	ISSUED FOR CONSTRUCTION				
		B		5/95	SUBMITTED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

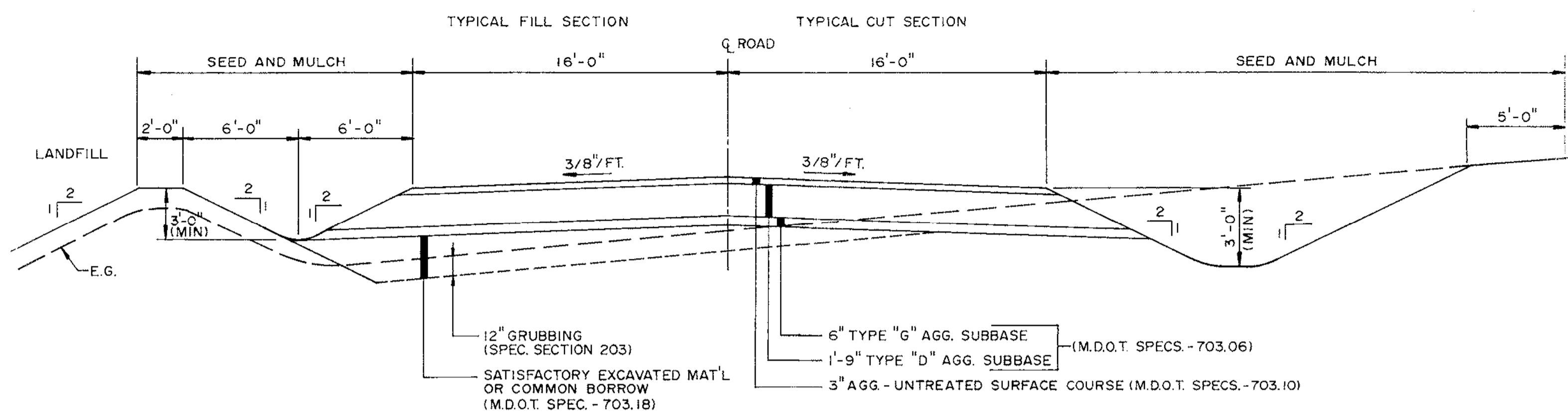
JOB NO. 95019

DRN	HAH
CKD	SMC
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. O.C. CONST.	
SCALE	N.T.S.

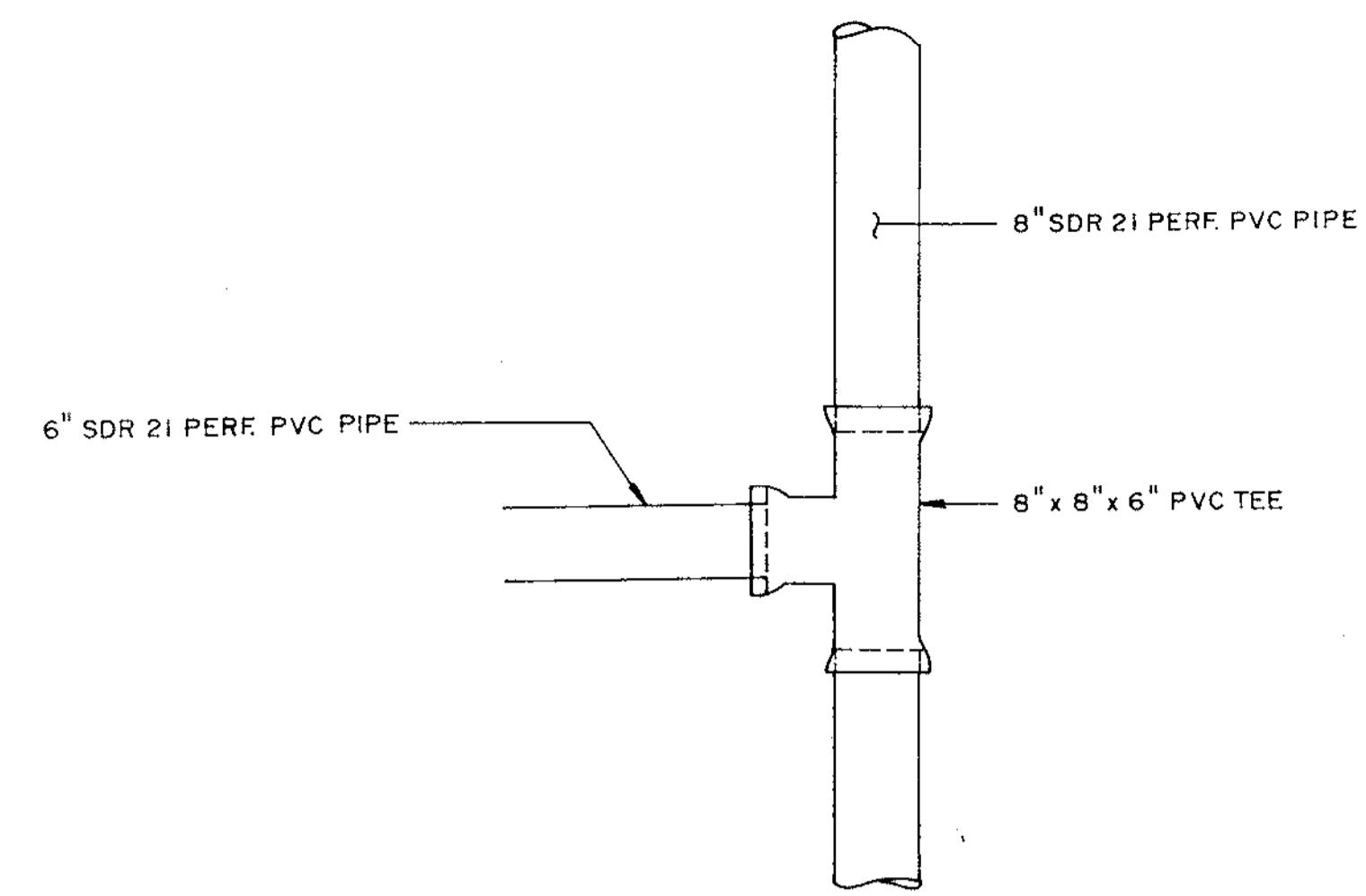


EAST OPERATION
DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SECTIONS & DETAILS
JOB NO. 94678
ENG. REQ. NO. _____
FILE NO. 2-092-4703.7082
YB-23384
SHEET 1 OF 2

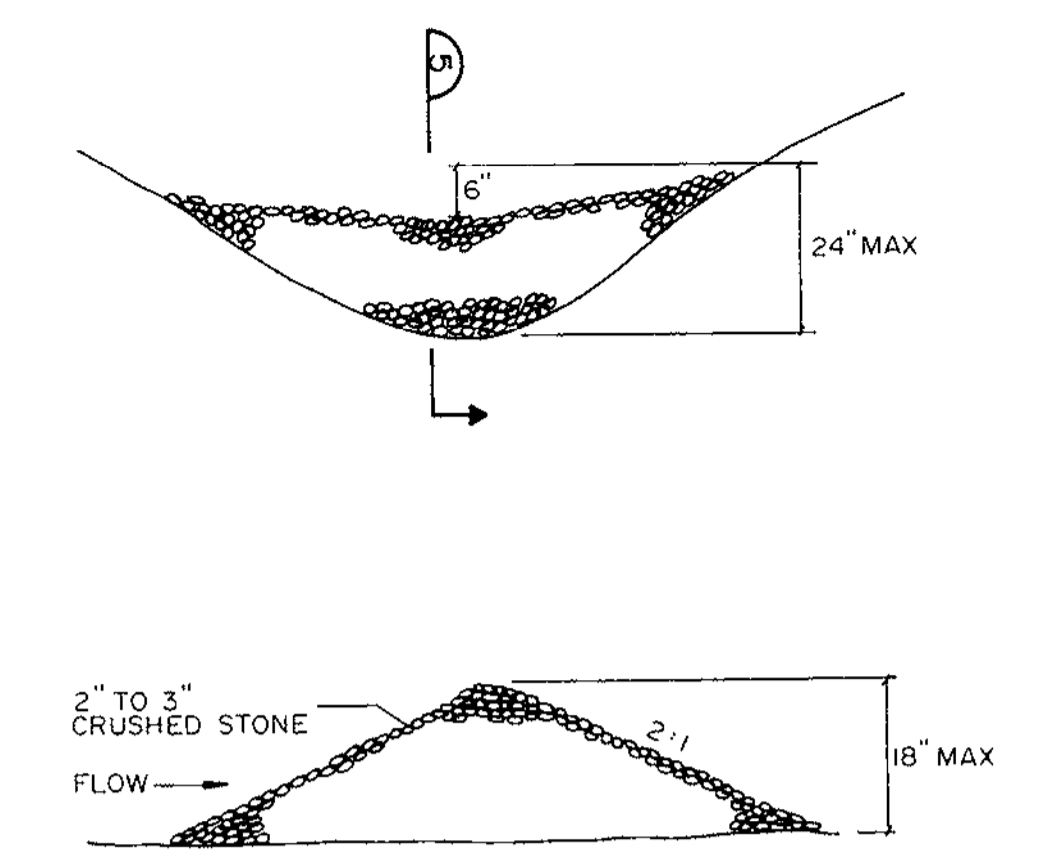
A B C D E F G H I J K L M N O P Q



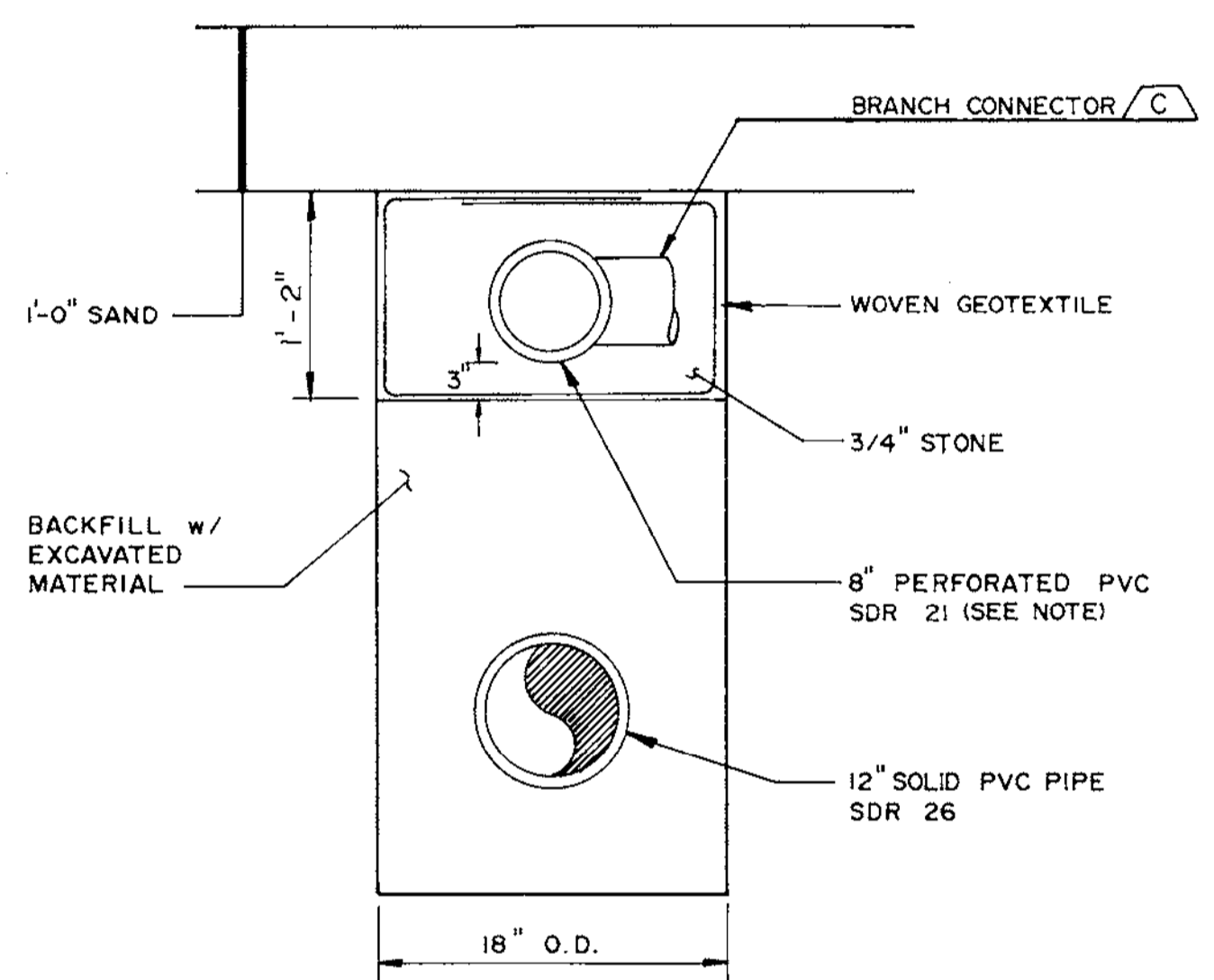
**TYPICAL SECTION
LANDFILL ACCESS ROAD**
NTS



BRANCH CONNECTOR / C
N.T.S. YB-23381

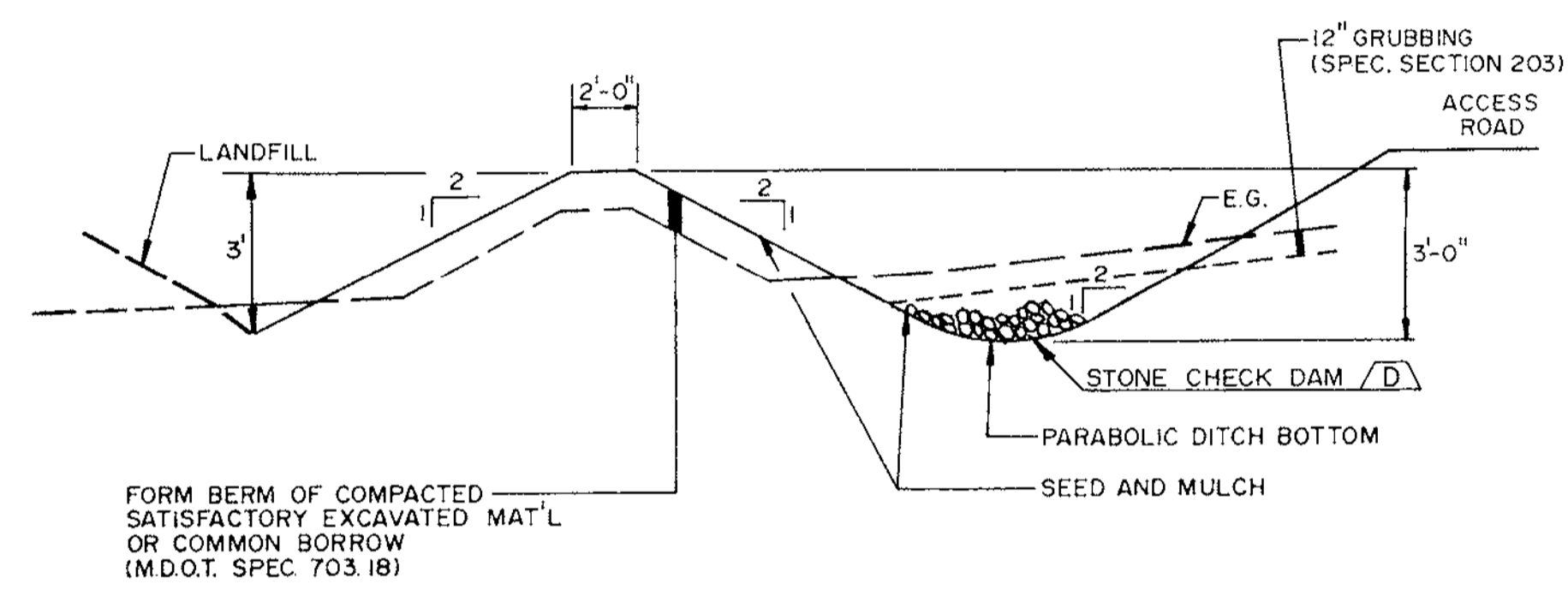


**SECTION 5
STONE CHECK DAM / D**
N.T.S. YB-23381

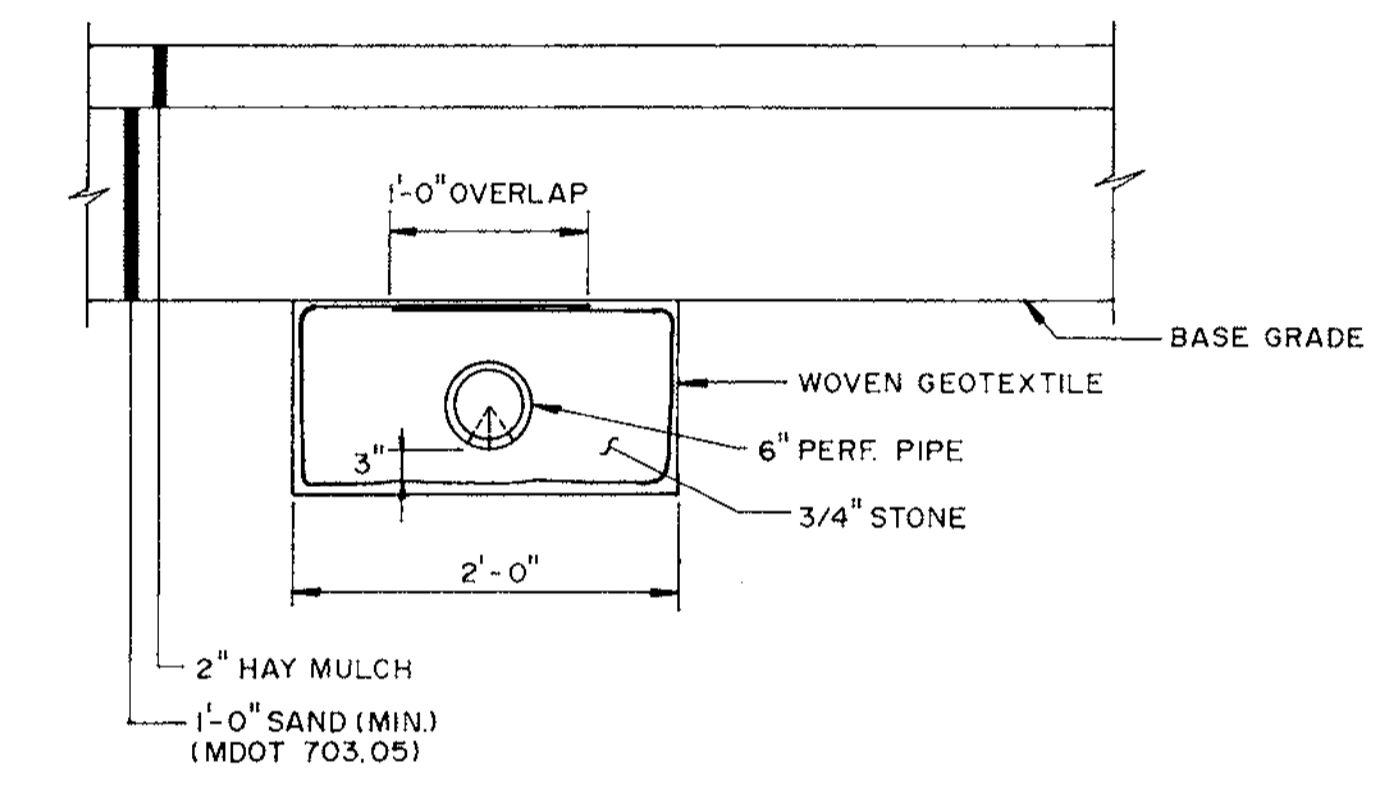


NOTE
PIPE PERFORATIONS SHALL BE
3/8" HOLES, 6" O.C., 2 ROWS.
ROWS SHALL BE MINIMUM 45"
MAXIMUM 60" FROM INVERT OF
PIPE. HOLES SHALL FACE DOWN.

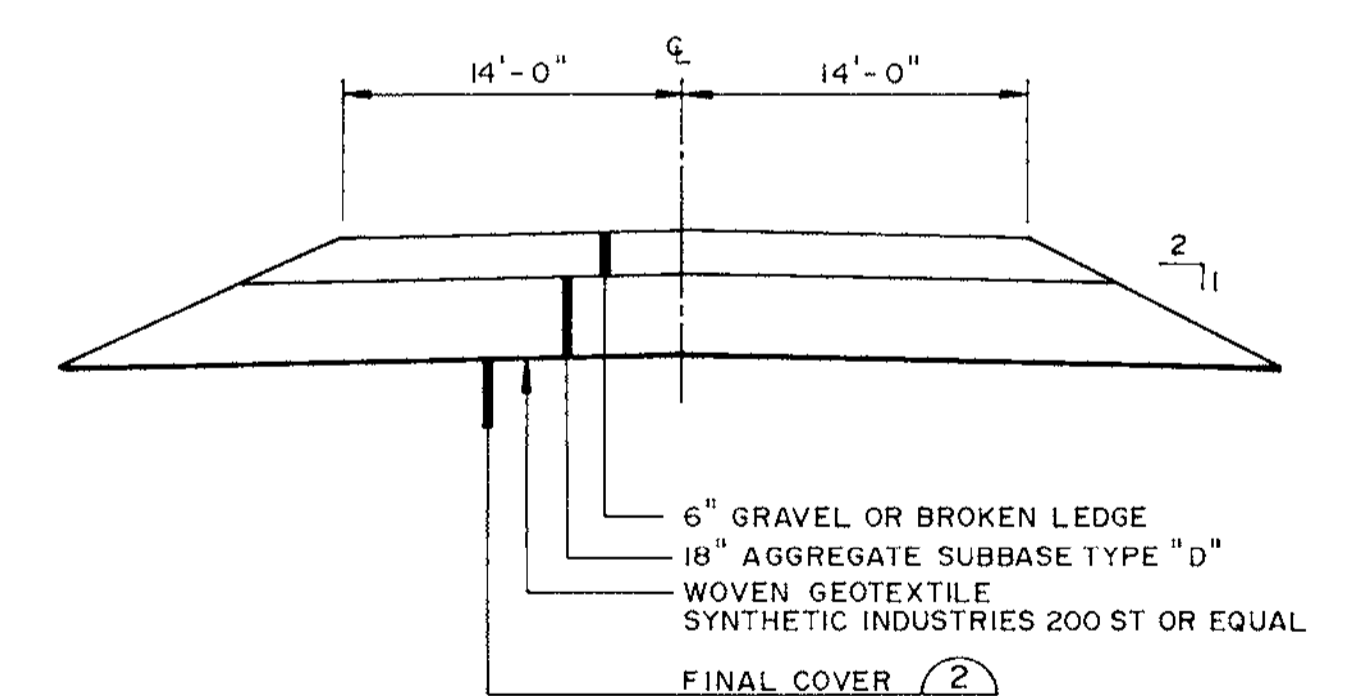
12-IN., 8-IN. LEACHATE COLLECTION PIPES 6
N.T.S. YB-23381



DIKE AND TYPE 2 DRAINAGE DITCH 7
N.T.S. YB-23381



6-IN. LEACHATE COLLECTION PIPE 8
N.T.S. YB-23381



ACCESS ROAD 9
N.T.S. YB-23382



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB No.
		C		8/95	ISSUED FOR CONSTRUCTION				
		B		5/95	SUBMITTED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	HAM
CKD	
CKD	
CONR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. O. C. CONST.	
SCALE N.T.S.	



EAST OPERATION
DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SECTIONS & DETAILS

JOB NO. 94678
ENG. REG. NO. _____
FILE NO. 2-092-4703.7082
YB-23384
SHEET 2 OF 2

JOB NO. 95019

GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY III LANDFILL CELL 11 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-25219
2	SYMBOLS & ABBREVIATIONS	YB-25220
3	EXISTING CONDITIONS PLAN	YB-25221
4	CELL 11 - SITE DEVELOPMENT PLAN	YB-25222
5	FINAL GRADING PLAN	YB-25223
6	SECTIONS & DETAILS	YB-25224

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine



DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mtg. T.O.	C - Const.
SCALE NONE	



EAST OPERATION	
DOLBY III LANDFILL CELL 11 CONSTRUCTION	
COVER SHEET	
JOB NO. 84744	YB-25219
ENG. REG. NO.	
FILE NO. 2-092-7082	

99070.00

SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		STONE WALL		MANHOLE		CATCH BASIN		WATER VALVE
	CONTOUR LINES		EDGE OF WATER		DRAINAGE COURSE (WITH DIRECTION)		HYDRANT		UTILITY POLE		CLEAN OUT STRUCTURE
	SPOT ELEVATION (GRADE)		FENCE LINE (WOOD)		UNDERGROUND GAS MAIN		UNDERGROUND TELEPHONE LINE		UNDERGROUND ELECTRICAL LINE		OVERHEAD ELECTRICAL LINE
	EXISTING GROUND		FENCE LINE (WIRE)		RETAINING WALL		SANITARY SEWER (SIZE & TYPE)		FORCE MAIN (SIZE & TYPE)		WATER MAIN (SIZE & TYPE)
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		GUARD RAIL		CLEARING LIMIT LINE		STORM DRAIN (SIZE & TYPE)		UNDERDRAIN (SIZE & TYPE)		CULVERT
	PROPERTY LINE OR R.O.W.		BUILDING AND STRUCTURES		SILTATION FENCE		PERIMETER DRAIN (SIZE & TYPE)		LEACHATE TRANSPORT (SIZE & TYPE)		LEACHATE COLLECTION (SIZE & TYPE)
	PROPERTY LINE W/ BEARING AND DISTANCE		SLOPE RATIO (HORIZONTAL TO VERTICAL)		LEAK DETECTION, SIZE & TYPE		TERRACE DRAINAGE SWALE		GRAVITY SEWER		SOLID WALL PIPE
	CONSTRUCTION BASELINE		SLOPES (WITH SLOPE RATIO)		RAILROAD						
	BOUNDARY LINE (State, County, Municipality)		EDGE OF TRAVELED WAY		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER						
	SURVEY MONUMENT		CUT OR FILL LINE		TEST PIT AND NUMBER						
	SURVEY IRON		WOODS OR BRUSH LINE								
	DRILL HOLE, PK, OR STAKE		INDIVIDUAL TREE (Deciduous)								
	INDIVIDUAL TREE (Coniferous)		TREE, TO BE REMOVED								
	MAPPED WETLAND		MAPPED WETLAND								

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

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MATERIAL:

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FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

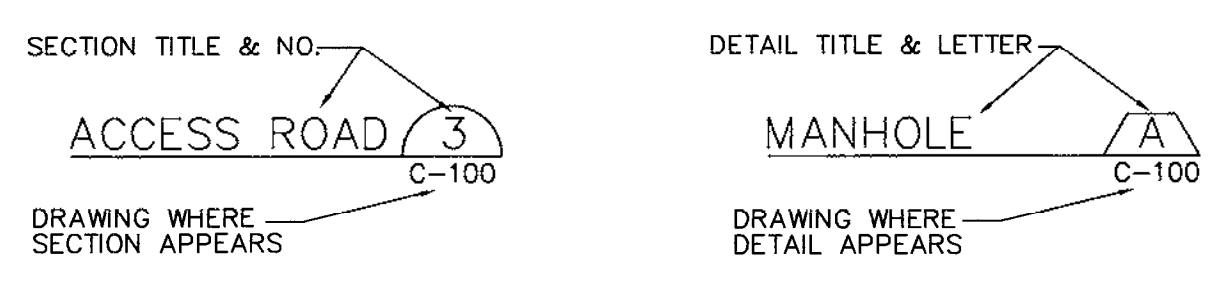
MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

<p>A.C.C.M.P. A.C.P. AC AGG ALUM APPD APPROX ARMH ASB ASPH AUTO AUX AVE AZ</p> <p>B.C.C.M.P. B.M. BIT BLDG BOT BRG</p> <p>C.B. CEN CEM. LIN. C.M.P. C.O. CF CFS CI CL CONC CONSTR CONTR CTR CY</p>	<p>ASPHALT COATED C.M.P. ASBESTOS CEMENT PIPE ACRE AGGREGATE ALUMINUM APPROVED APPROXIMATE AIR RELEASE MANHOLE ASBESTOS ASPHALT OR AUTOMATIC AUXILIARY AVENUE AZIMUTH</p> <p>BITUMINOUS COATED C.M.P. BENCH MARK BITUMINOUS BUILDING BOTTOM BEARING</p> <p>CATCH BASIN CENTER CEMENT LINED CORRUGATED METAL PIPE CLEAN OUT CUBIC FEET CUBIC FEET PER SECOND CAST IRON CLASS CONCRETE CONSTRUCTION CONTRACTOR CENTER CUBIC YARD</p>	<p>D DBL DEC OR DEPT DI DIA OR # DIM DIST DN DR DWG EA EG ELEC EL ELB EQUIP EST EXC EXIST</p> <p>F.G. FBRGL FDN FLEX FLG FLR FPS FT OR FTG GA GAL GALV GPD GPM</p>	<p>DEGREE OF CURVE DOUBLE DIAMETER DEPARTMENT DUCTILE IRON DIAMETER DIMENSION DISTANCE DOWN DRAWING DRAIN DRAWING EACH EXISTING GROUND OR GRADE ELECTRIC ELEVATION ELBOW EQUIPMENT ESTIMATED EXCAVATE EXISTING</p> <p>FINISH GRADE FIBERGLASS FOUNDATION FLEXIBLE FLANGE FLOOR FEET PER SECOND FEET FOOTING GAUGE GALLON GALVANIZED GALLONS PER DAY GALLONS PER MINUTE</p>	<p>HDPE HP HYD I.D. IN OR # INV INV. EL. LB LC LD LIN. FT. LOC LT M.H. M.J. MATL MAX MFR MIN MISC MON</p> <p>MANHOLE MECHANICAL JOINT MATERIAL MAXIMUM MANUFACTURE MINIMUM MISCELLANEOUS MONUMENT</p> <p>N.I.T.C. NOT TO SCALE NOW OR FORMERLY NUMBER O.C. O.D.</p> <p>ON CENTER OUTSIDE DIAMETER</p>	<p>HIGH DENSITY POLYETHYLENE HORSEPOWER HYDRANT INCHES INVERT INVERT ELEVATION POUND LEACHATE COLLECTION LEAK DETECTION LINEAR FEET LOCATION LEACHATE TRANSPORT MANHOLE MECHANICAL JOINT MATERIAL MAXIMUM MANUFACTURE MINIMUM MISCELLANEOUS MONUMENT NOT IN THIS CONTRACT NOT TO SCALE NOW OR FORMERLY NUMBER ON CENTER OUTSIDE DIAMETER</p>	<p>P.C. PD P.I. P.T. PERF PSI PVC PVMT QTY R.O.W. RAD REQD RT RTE S SCH SF SHT STA SY TAN TDH TEMP TYP V W/O YD</p> <p>POINT ON CURVE PERIMETER DRAIN POINT OF INTERSECTION POINT OF TANGENT PERFORATED POUNDS PER SQUARE INCH POLYVINYL CHLORIDE PAVEMENT QUANTITY RIGHT OF WAY RADIUS REQUIRED RIGHT ROUTE SLOPE SCHEDULE SQUARE FEET SHEET STATION SQUARE YARD TANGENT TOTAL DYNAMIC HEAD TEMPORARY TYPICAL VOLTS WITH WITHOUT YARD</p>
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VIEW MARKERS & IDENTIFICATION



CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		7/30/99	SUBMITTED TO CLIENT				

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

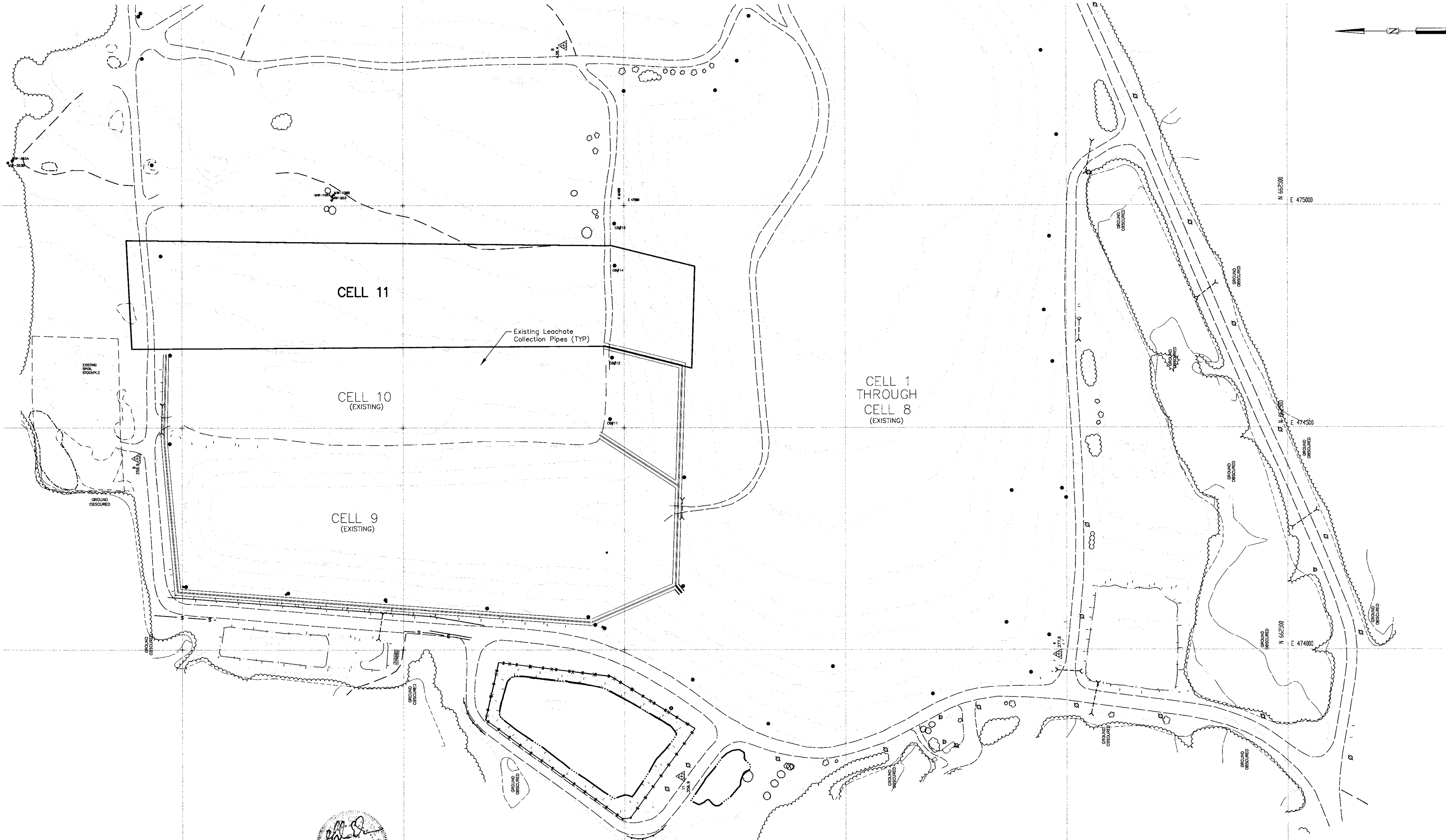
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CHK	GHC
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CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mt. T.O.	C - Const.
SCALE AS SHOWN	

BOWATER
Great Northern Paper

CENTRAL ENGINEERING
**DOLBY III LANDFILL
CELL 11 CONSTRUCTION
SYMBOLS & ABBREVIATIONS**

JOB NO. 94744
ENG. REG. NO. _____
FILE NO. 2-092-7082

YB-25220

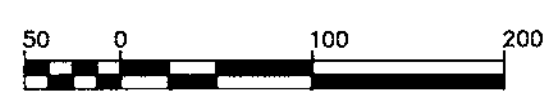
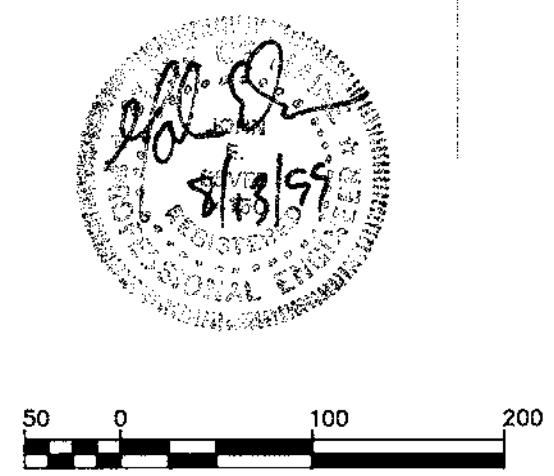


N 662500
E 475000

N 662500
E 474500

N 662500
E 474000

- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.



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		7/30/99	SUBMITTED TO CLIENT				JOB NO. 99070

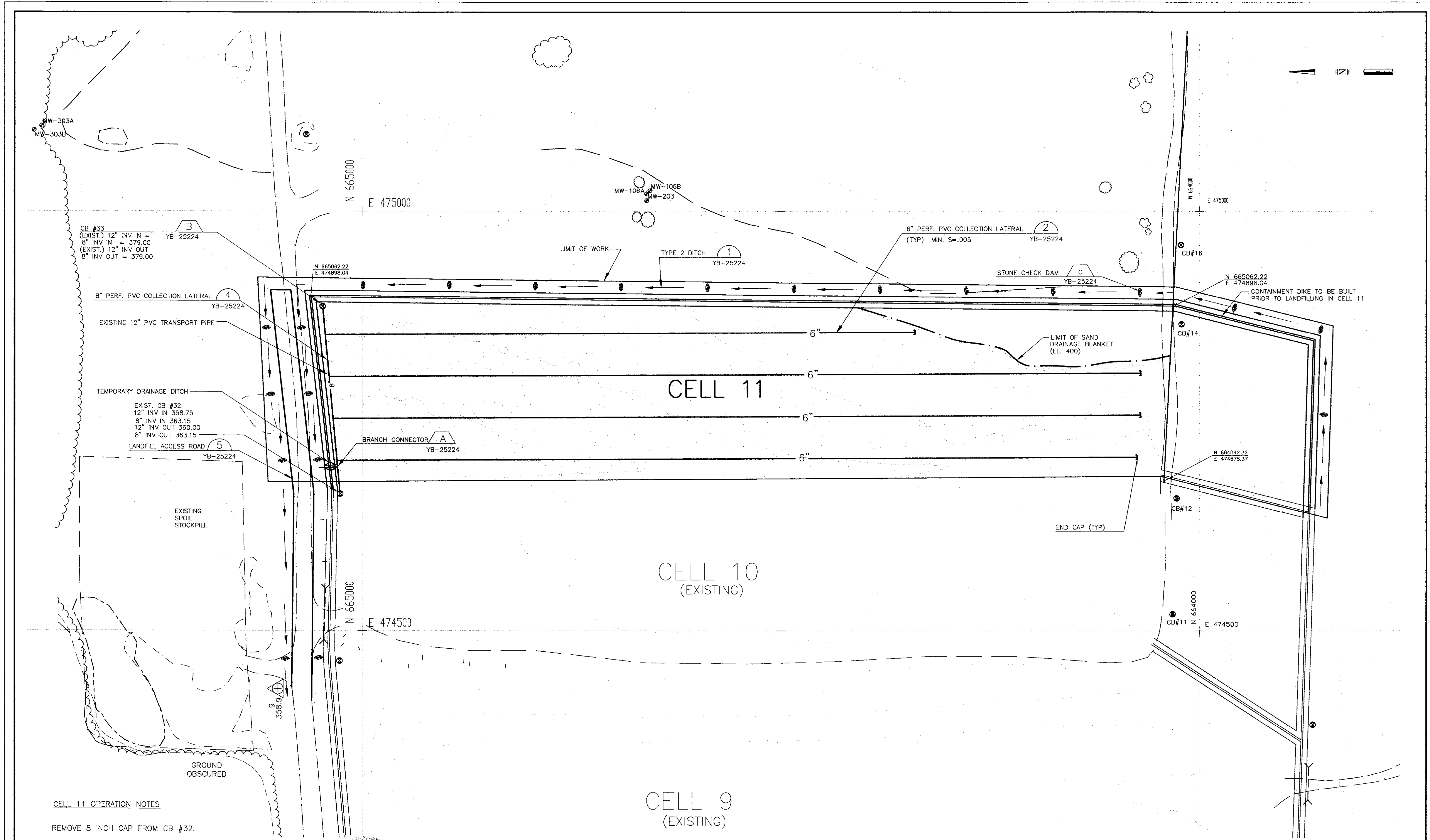
SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mtl. T.O.	C - Const.
SCALE AS SHOWN	

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Great Northern Paper

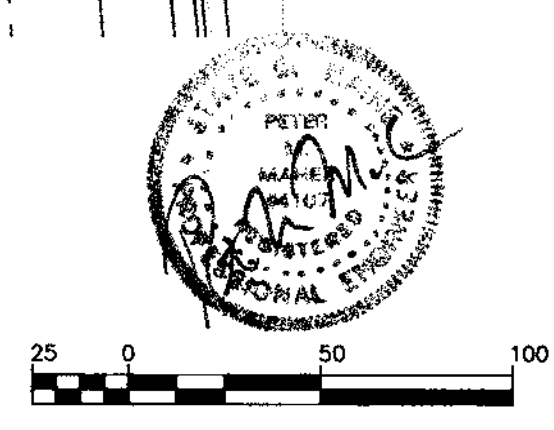
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**DOLBY III LANDFILL
CELL 11 CONSTRUCTION**
EXISTING CONDITIONS PLAN
JOB NO. 94744
ENG. REQ. NO. YB-25221
FILE NO. 2-092-7082

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CELL 11 OPERATION NOTES

- REMOVE 8 INCH CAP FROM CB #32.
- REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.
- BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.
- STRIP EXISTING LANDFILL COVER ON CELL 3B.
- REMOVE EXISTING CATCH BASIN COVER ON CELL 3B (CB #14) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVER.



CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB NO.
		12/27/99	RECORD DRAWING				
		7/30/99	SUBMITTED TO CLIENT				

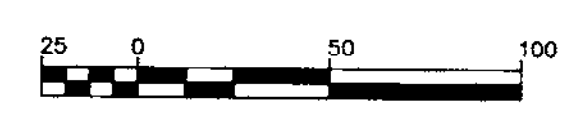
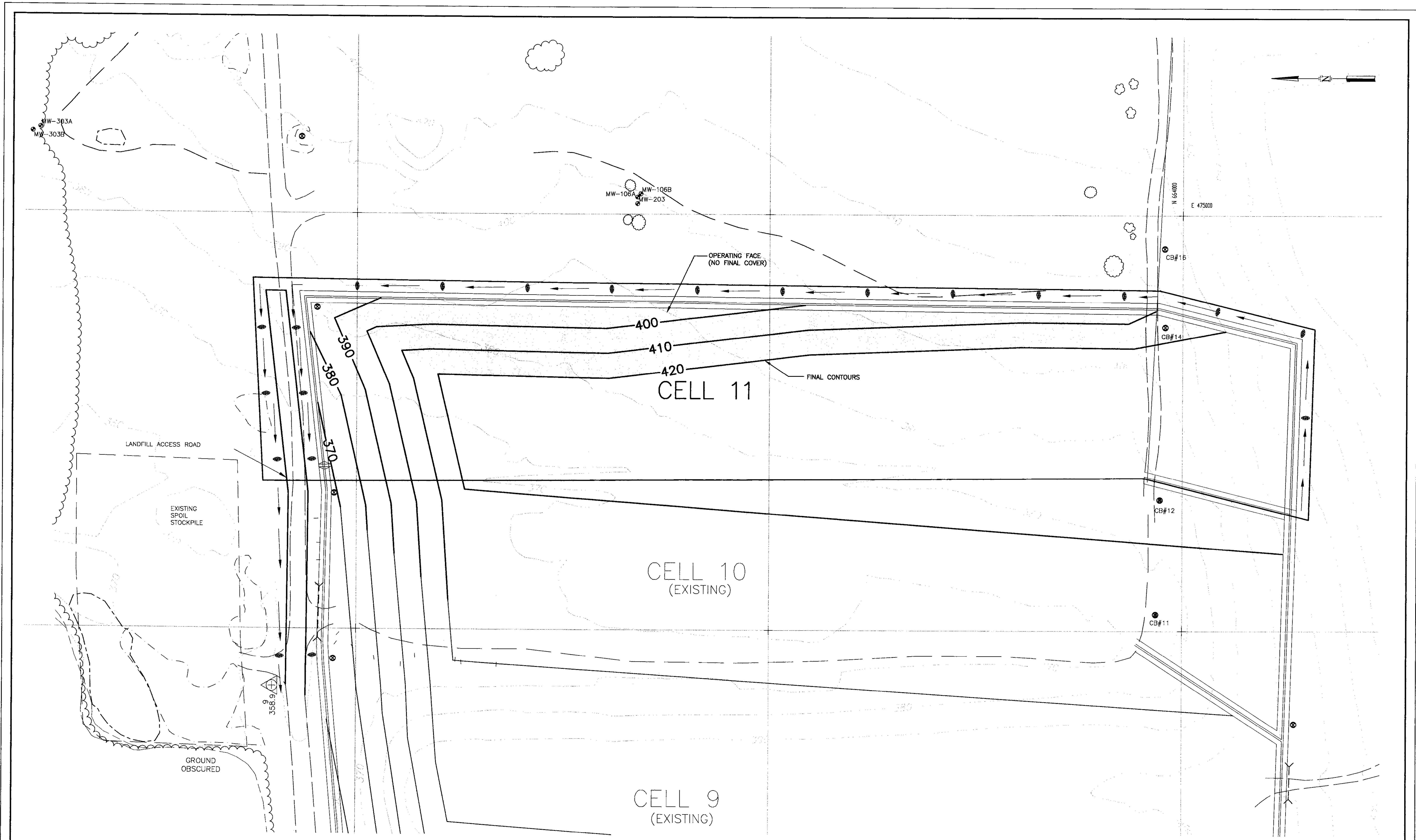
SME
 Seeve & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

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EAST OPERATION
 DOLBY III LANDFILL
 CELL 11 CONSTRUCTION
 SITE DEVELOPMENT PLAN
 JOB NO. 94744
 ENG. REQ. NO. YB-25222
 FILE NO. 2-092-7082

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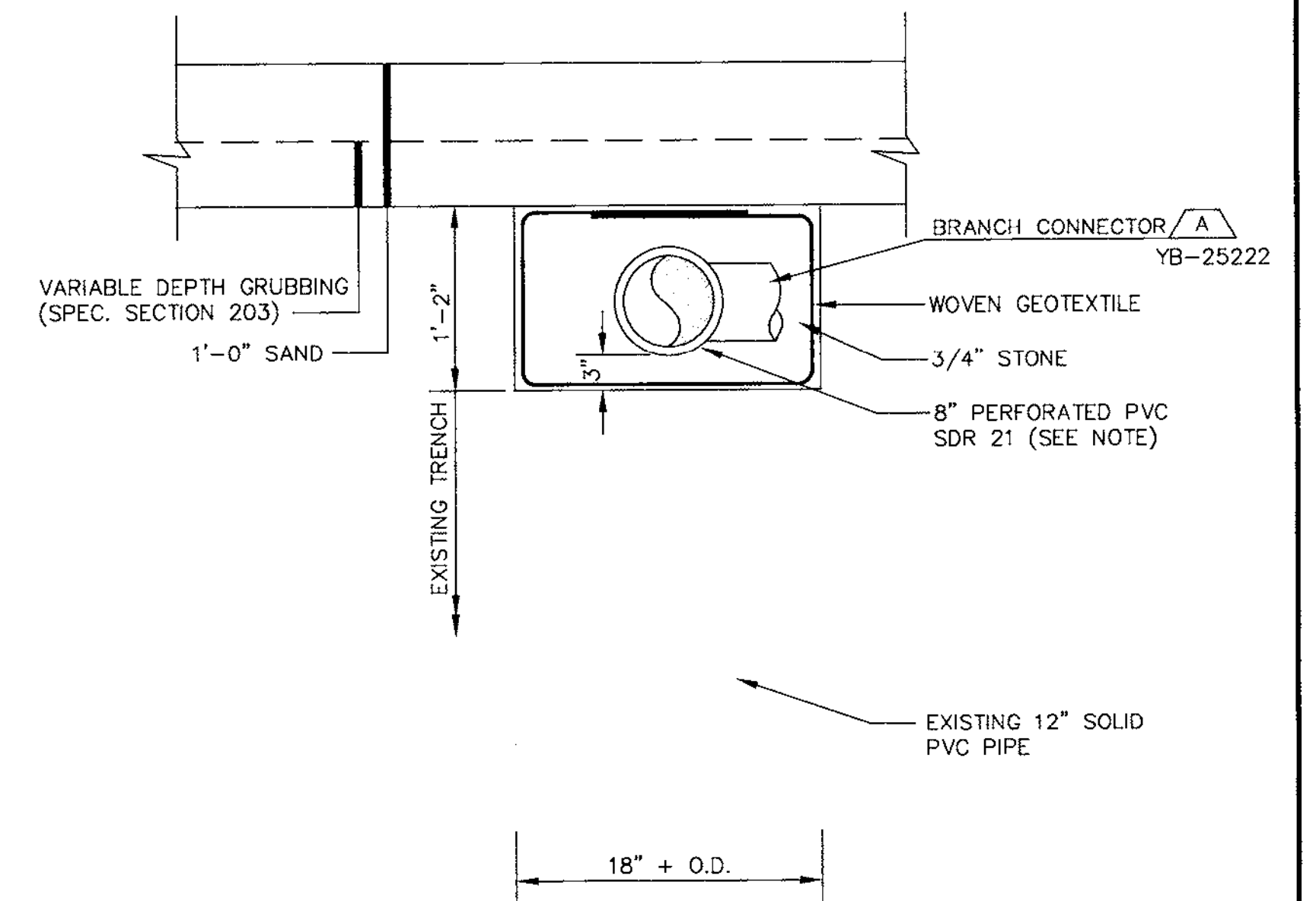
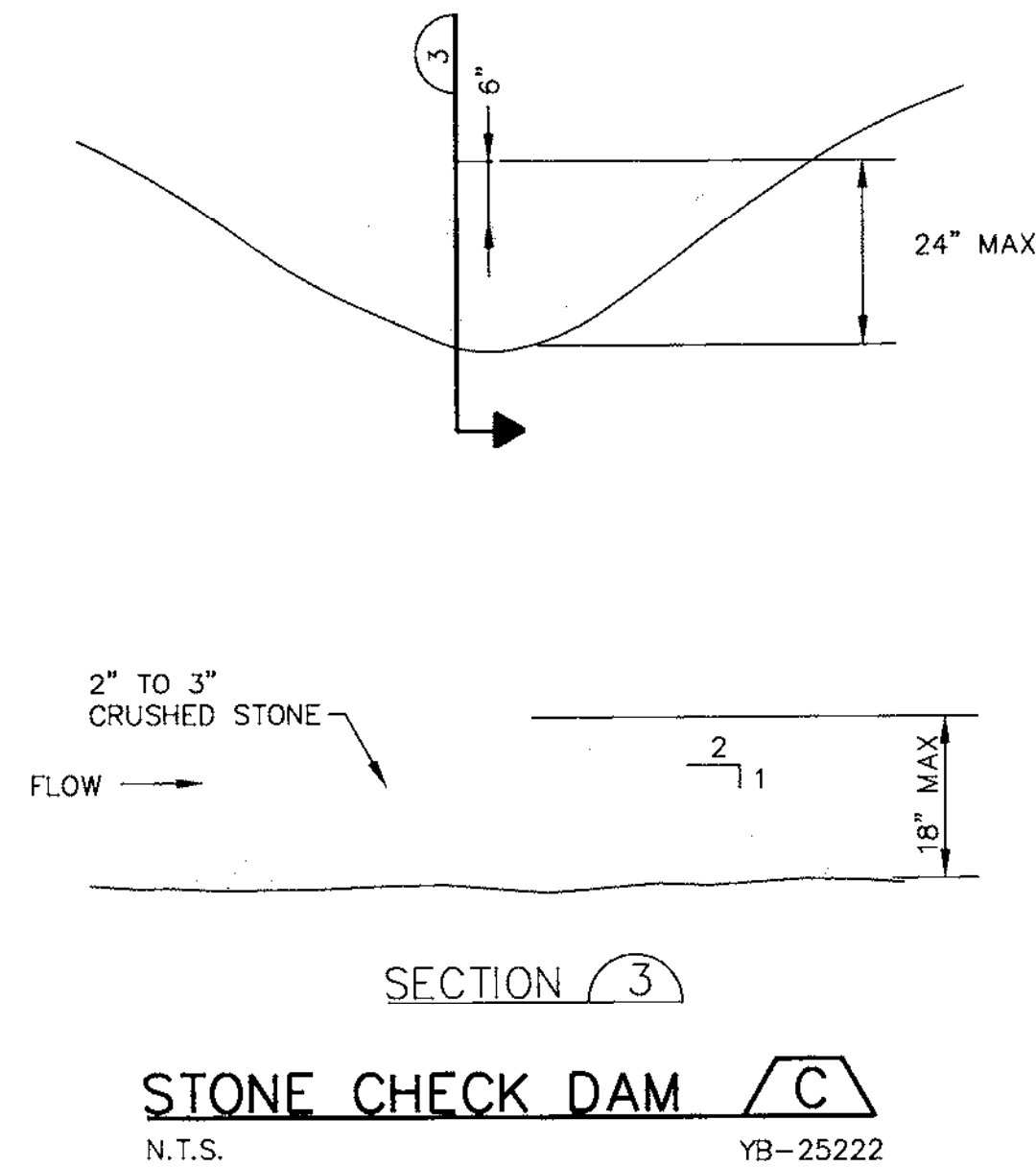
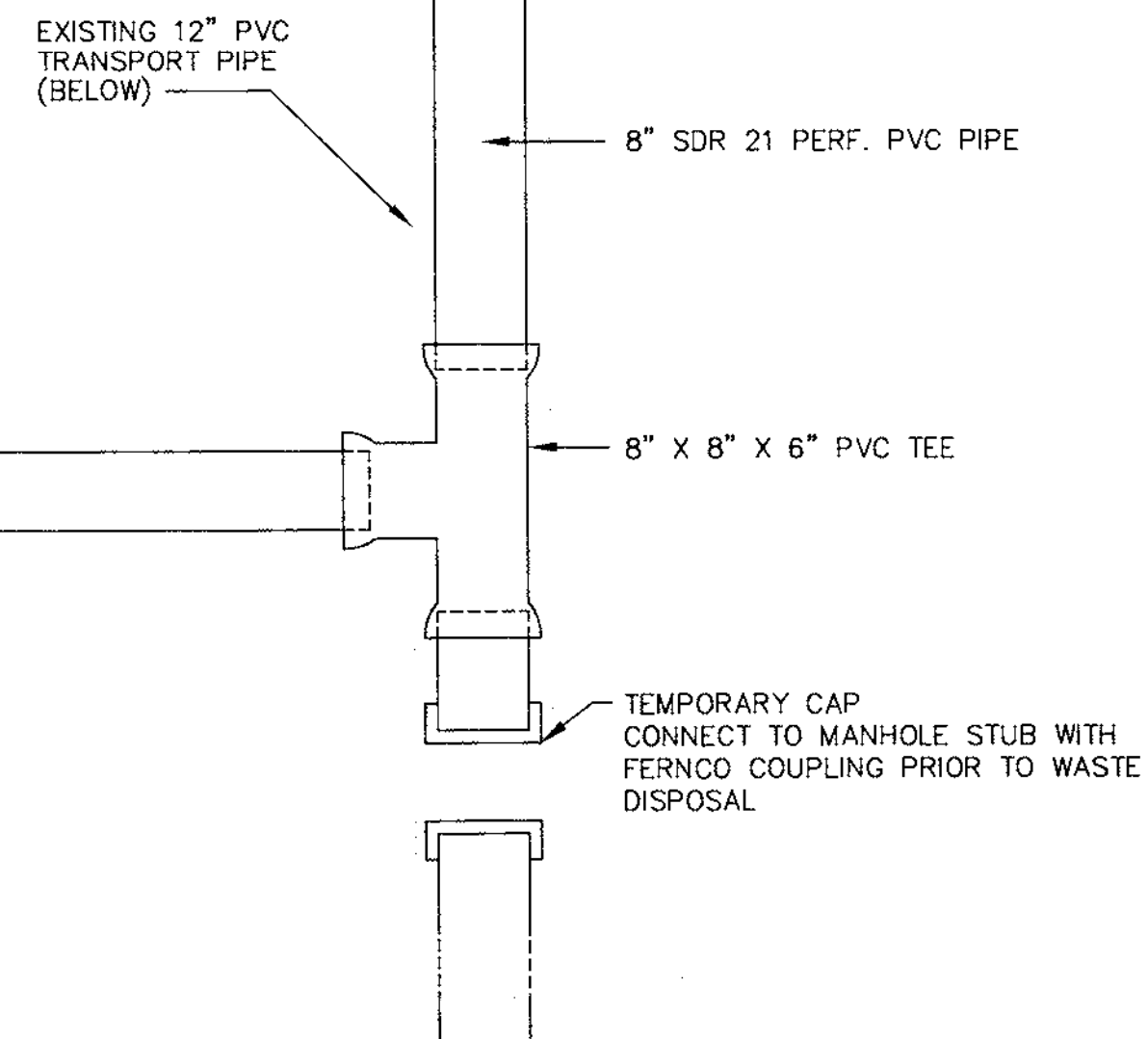
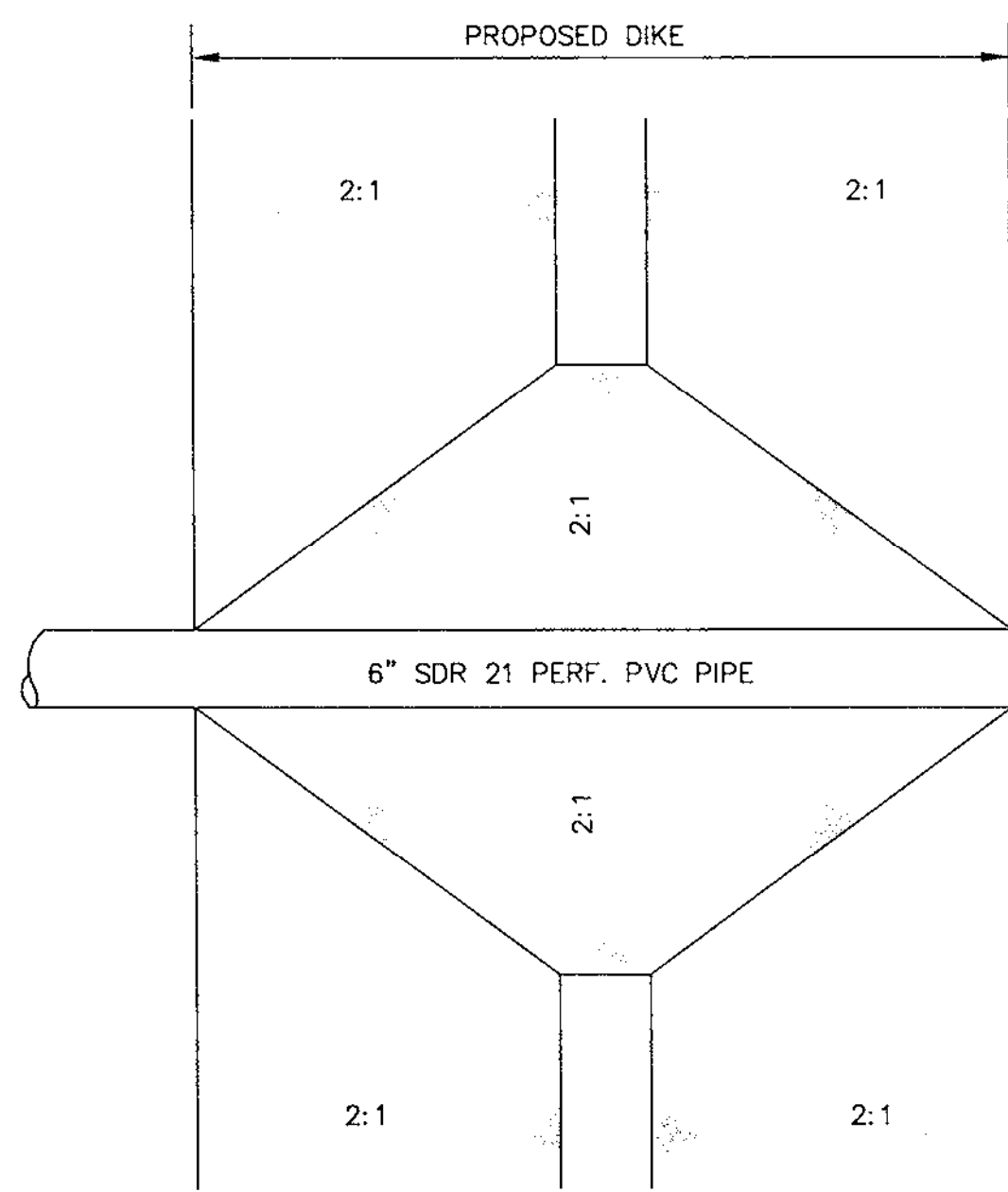
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		7/30/99	SUBMITTED TO CLIENT				

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SCALE AS SHOWN	



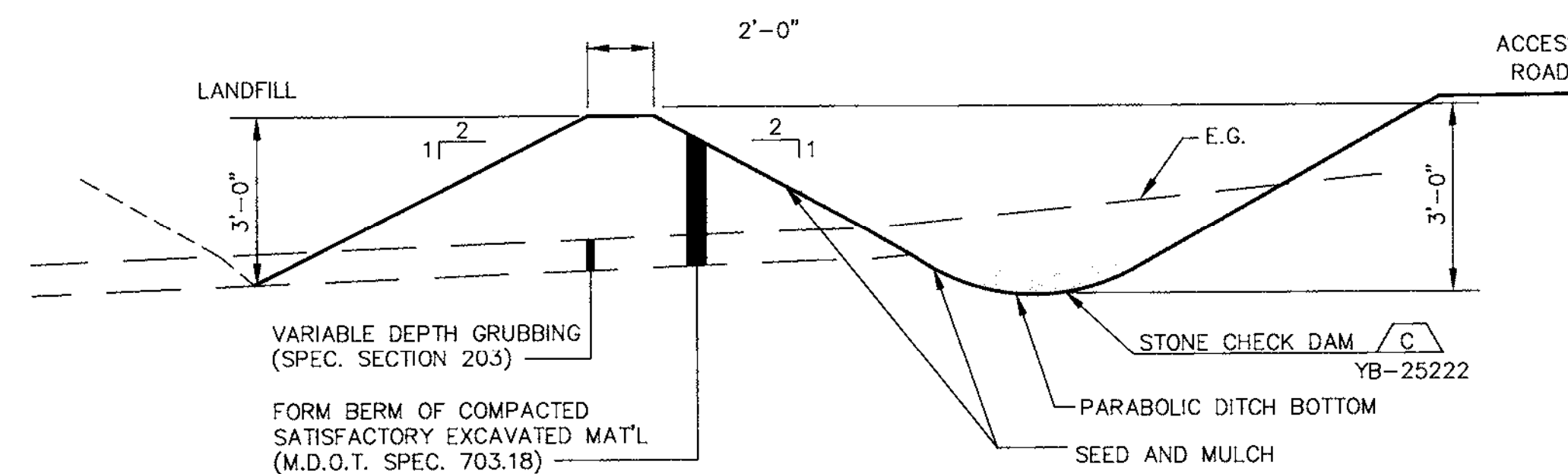
EAST OPERATION
DOLBY III LANDFILL
CELL 11 CONSTRUCTION
FINAL GRADING PLAN
 JOB NO. 94744
 ENG. REQ. NO. YB-25223
 FILE NO. 2-092-7082



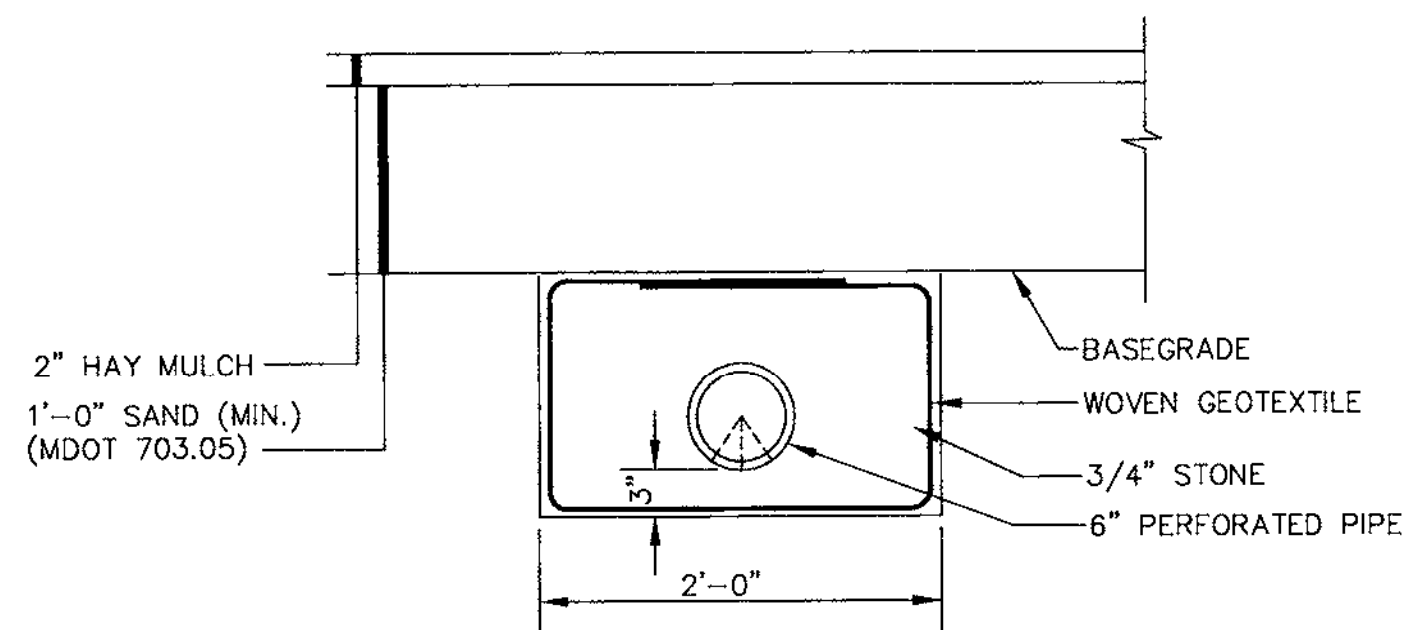
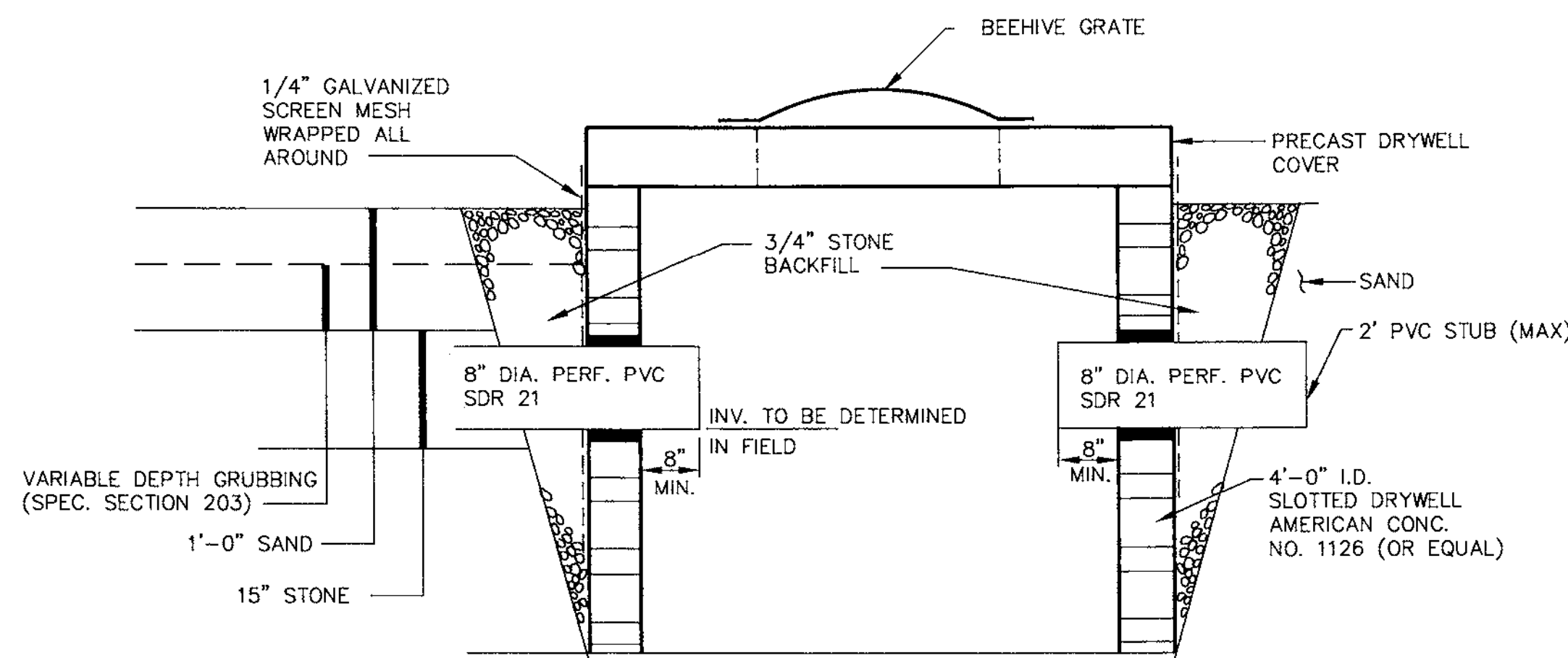
NOTE:
PIPE PERFORATIONS SHALL BE
3/8" DIA. HOLES, 6" O.C., 2 ROWS.
ROWS SHALL BE MINIMUM 45"
MAXIMUM 60" FROM INVERT OF
PIPE. HOLES SHALL FACE DOWN.

8" LEACHATE COLLECTION PIPES **4**
N.T.S. YB-25222

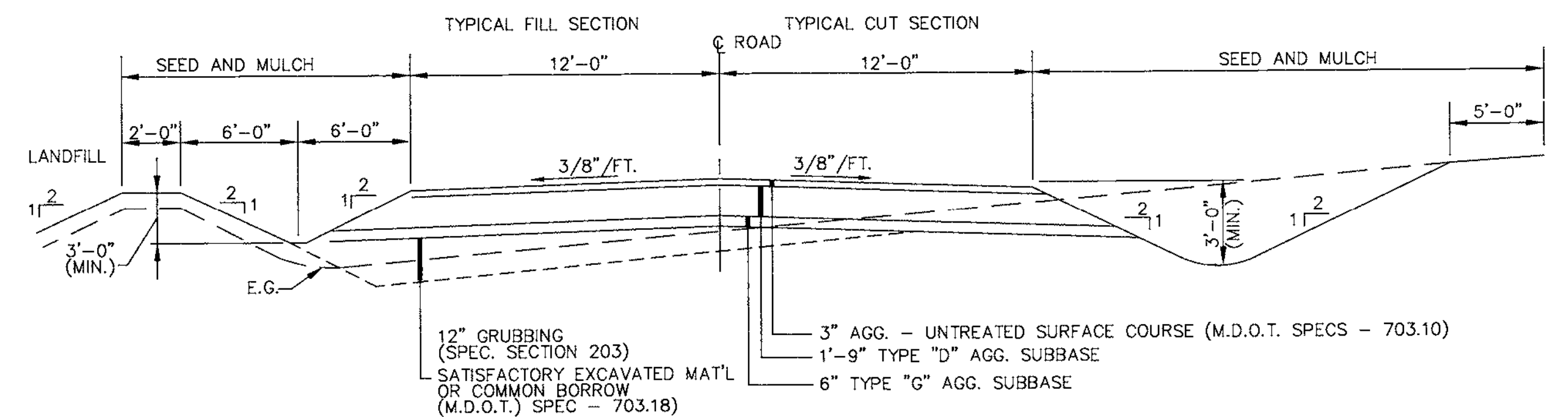
BRANCH CONNECTOR **A**
N.T.S. YB-25222



DIKE AND TYPE 2 DRAINAGE DITCH **1**
N.T.S. YB-25222



6" LEACHATE COLLECTION PIPE **2**
N.T.S. YB-25222



LANDFILL ACCESS ROAD **4**
N.T.S. YB-25222

CATCH BASIN # 33 **B**
N.T.S. YB-25222



CODE	NO.	DATE	REVISION	BY	CRD	APPVD	JOB NO.
		12/27/99	RECORD DRAWING				99070
		7/30/99	SUBMITTED TO CLIENT				99070

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Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
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DRN	MSB
CHK	GHC
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APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mfr. T.O.	C - Const.
SCALE AS SHOWN	

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EAST OPERATION
DOLBY III LANDFILL
CELL 11 CONSTRUCTION
SECTIONS & DETAILS
JOB NO. 94744
ENG. REQ. NO. YB-25224
FILE NO. 2-092-7082

GREAT NORTHERN PAPER, INC. MILLINOCKET, MAINE DOLBY III LANDFILL CELL 12 CONSTRUCTION CELL 10 CLOSURE

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-25539
2	SYMBOLS & ABBREVIATIONS	YB-25540
3	EXISTING CONDITIONS PLAN	YB-25541
4	CELL 12 - SITE DEVELOPMENT PLAN	YB-25542
5	OPERATIONAL GRADING PLAN	YB-25543
6	SECTIONS & DETAILS (SHEET 1 OF 2)	YB-25544
7	SECTIONS & DETAILS (SHEET 2 OF 2)	YB-25544

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

Sevee

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
1	-			5/31/00	P	SUBMITTED TO CLIENT												
2	-			6/8/00	C	ISSUED FOR CONSTRUCTION												
3	-																	
4	-																	
5	-																	
6	-																	

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE: NINE		



CAD FILE: GNPCOV12.DWG

EAST OPERATION	
DOLBY III LANDFILL CELL 12 CONSTRUCTION CELL 10 CLOSURE COVER SHEET	
JOB NO. 94744	YB-25539
FILE NO. 2-092-7082	
LDC. NO.	

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SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		STONE WALL		MANHOLE		CATCH BASIN		WATER VALVE
	CONTOUR LINES		EDGE OF WATER		WATER ELEVATION (GROUND OR SURFACE)		HYDRANT		UTILITY POLE		CLEAN OUT STRUCTURE
	SPOT ELEVATION (GRADE)		FENCE LINE (WOOD)		FENCE LINE (WIRE)		UNDERGROUND GAS MAIN		UNDERGROUND TELEPHONE LINE		UNDERGROUND ELECTRICAL LINE
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		RETAINING WALL		GUARD RAIL		OVERHEAD ELECTRICAL LINE		SANITARY SEWER (SIZE & TYPE)		FORCE MAIN (SIZE & TYPE)
	PROPERTY LINE OR R.O.W.		SLOPES (WITH SLOPE RATIO)		EDGE OF TRAVELED WAY		WATER MAIN (SIZE & TYPE)		STORM DRAIN (SIZE & TYPE)		UNDERDRAIN (SIZE & TYPE)
	PROPERTY LINE W/ BEARING AND DISTANCE		BUILDING AND STRUCTURES		CLEARING LIMIT LINE		CULVERT		RAILROAD		SILTATION FENCE
	CONSTRUCTION BASELINE		SLOPE RATIO (HORIZONTAL TO VERTICAL)		BITUMINOUS PAVEMENT		CONCRETE		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		TEST PIT AND NUMBER
	BOUNDARY LINE (State, County, Municipality)		SLOPES (WITH SLOPE RATIO)		TREE, TO BE REMOVED		MAPPED WETLAND		PERIMETER DRAIN (SIZE & TYPE)		LEACHATE TRANSPORT (SIZE & TYPE)
	SURVEY MONUMENT		SLOPES (WITH SLOPE RATIO)		TREE, TO BE REMOVED		MAPPED WETLAND		LEACHATE COLLECTION (SIZE & TYPE)		LEAK DETECTION, SIZE & TYPE
	SURVEY IRON		SLOPES (WITH SLOPE RATIO)		TREE, TO BE REMOVED		MAPPED WETLAND		TERRACE DRAINAGE SWALE		GRAVITY SEWER
	DRILL HOLE, PK, OR STAKE		SLOPES (WITH SLOPE RATIO)		TREE, TO BE REMOVED		MAPPED WETLAND		SOLID WALL PIPE		
	WOODS OR BRUSH LINE										
	INDIVIDUAL TREE (Deciduous)										
	INDIVIDUAL TREE (Coniferous)										
	TREE, TO BE REMOVED										
	MAPPED WETLAND										

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW - MDOT SPECIFICATION 703.18

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET - MDOT SPECIFICATION 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE - SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 11 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	TALL FESCUE	50%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

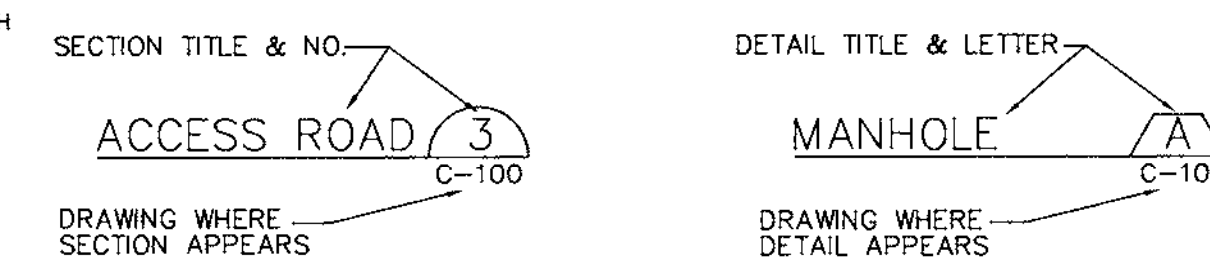
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION



<p>A.C.C.M.P. A.C.P. AC AOG ALUM APPD APPROX ARMH ASB ASPH AUTO AUX AVE AZ</p> <p>B.C.C.M.P. B.M. BIT BLDG BOT BRG</p> <p>C.B. CEN CEM. LIN. C.M.P. C.O. CF CFS CI CL CONC CONST CONTR CTR CY</p>	<p>ASPHALT COATED C.M.P. ASBESTOS CEMENT PIPE ACRE AGGREGATE ALUMINUM APPROVED APPROXIMATE AIR RELEASE MANHOLE ASBESTOS ASPHALT AUTOMATIC AUXILIARY AVENUE AZIMUTH</p> <p>BITUMINOUS COATED C.M.P. BENCH MARK BITUMINOUS BUILDING BOTTOM BEARING</p> <p>CATCH BASIN CENTER CEMENT LINED CORRUGATED METAL PIPE CLEAN OUT CUBIC FEET CUBIC FEET PER SECOND CAST IRON CLASS CONCRETE CONSTRUCTION CONTRACTOR CENTER CUBIC YARD</p>	<p>D DBL DEG OR DEPT DI DIA OR Ø DIM DIST DN DR DWG EA EG ELEC EL ELB EQUIP EST EXC EXIST</p> <p>F.C. FBRGL FDN FLEX FLG FLR FPS FT OR FTG GA GAL GALV GPD GPM</p>	<p>DEGREE OF CURVE DOUBLE DIAMETER DEPARTMENT DUCTILE IRON DIAMETER DIMENSION DISTANCE DOWN DRAIN DRAWING EACH EXISTING GROUND OR GRADE ELECTRIC ELEVATION ELBOW EQUIPMENT ESTIMATED EXCAVATE EXISTING</p> <p>FINISH GRADE FIBERGLASS FOUNDATION FLEXIBLE FLANGE FLOOR FEET PER SECOND FOOTING GAUGE GALLON GALVANIZED GALLONS PER DAY GALLONS PER MINUTE</p>	<p>HDPE HP HYD</p> <p>I.D. IN OR INV INV. EL</p> <p>LB LC LD LIN FT. LOC LT</p> <p>M.H. M.J. MATL MAX MFR MIN MISC MON</p> <p>N.I.T.C. N.T.S. N/F NO. OR #</p> <p>O.C. O.D.</p>	<p>HIGH DENSITY POLYETHYLENE HORSEPOWER HYDRANT</p> <p>INSIDE DIAMETER INCHES INVERT INVERT ELEVATION</p> <p>POUND LEACHATE COLLECTION LEAK DETECTION LEAK FEET LOCATION LEACHATE TRANSPORT</p> <p>MANHOLE MECHANICAL JOINT MATERIAL MAXIMUM MANUFACTURE MINIMUM MISCELLANEOUS MONUMENT</p> <p>NOT IN THIS CONTRACT NOT TO SCALE NOW OR FORMERLY NUMBER</p> <p>ON CENTER OUTSIDE DIAMETER</p>	<p>P.C. PD P.I. P.T. PERF PSI PVC PVMT</p> <p>QTY QUANTITY</p> <p>R.O.W. RAD RECD RT RTE</p> <p>S SCH SF SHT STA SY</p> <p>TAN TDH TEMP TYP</p> <p>V VOLTS</p> <p>W/ W/O YD</p>	<p>POINT ON CURVE PERIMETER DRAIN POINT OF INTERSECTION POINT OF TAKEN PERFORATED POUNDS PER SQUARE INCH POLYVINYL CHLORIDE PAVEMENT</p> <p>RIGHT OF WAY RADIUS REQUIRED RIGHT ROUTE</p> <p>SLOPE SCHEDULE SQUARE FEET SHEET STATION SQUARE YARD</p> <p>TANGENT TOTAL DYNAMIC HEAD TEMPORARY TYPICAL</p> <p>WITH WITHOUT YARD</p>
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Rama

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2	-	6/8/00	C	ISSUED FOR CONSTRUCTION							
1	-	5/31/00	P	SUBMITTED TO CLIENT							
REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE

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Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

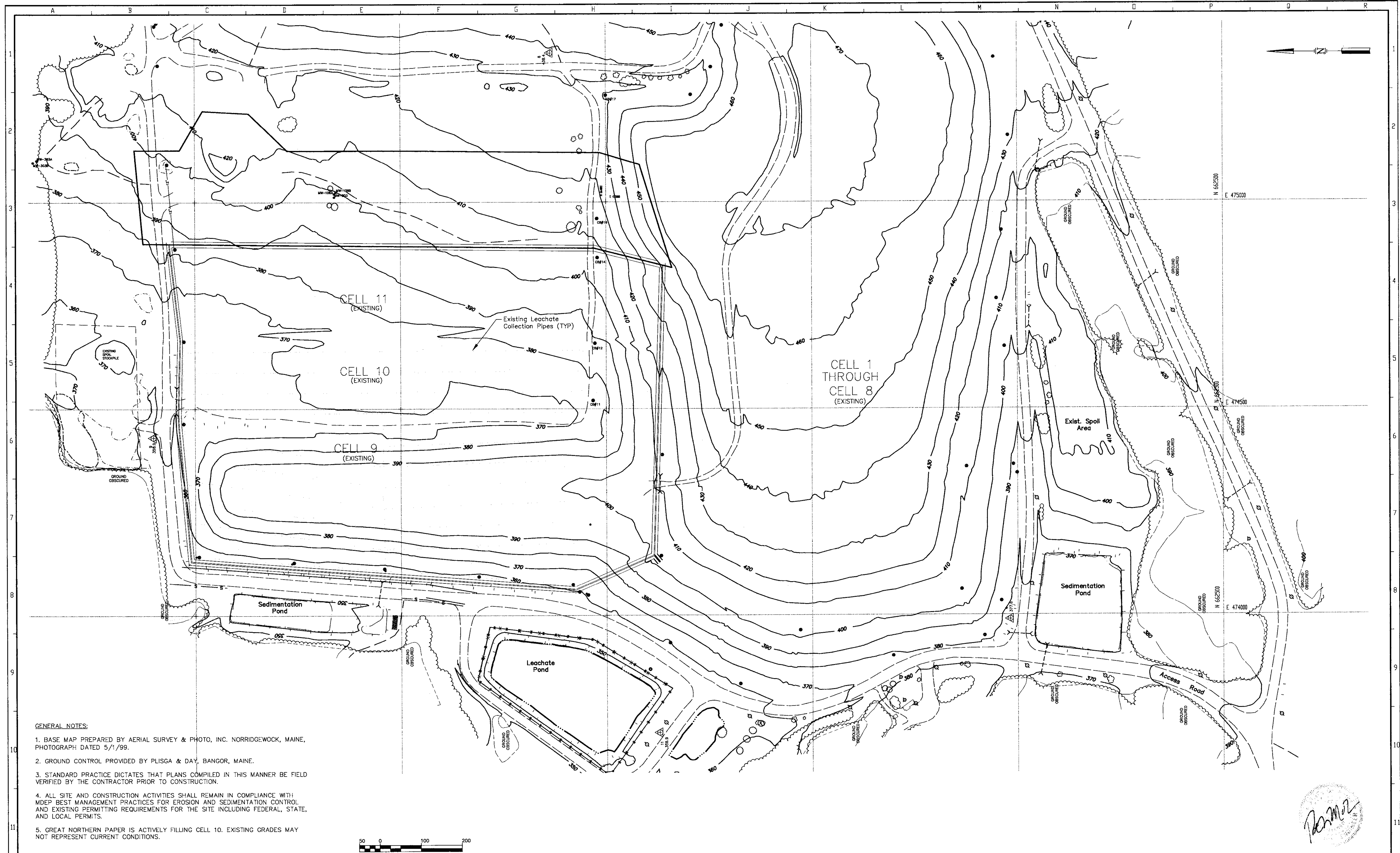
DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	



EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 94744
FILE NO. 2-992-7082
LOC. NO. **YB-25540**

CAD FILE: SYMSHT.DWG



- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH: MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
 5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 10. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



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REV	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REVISION	BY	CHKD	APPVD	JOB
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5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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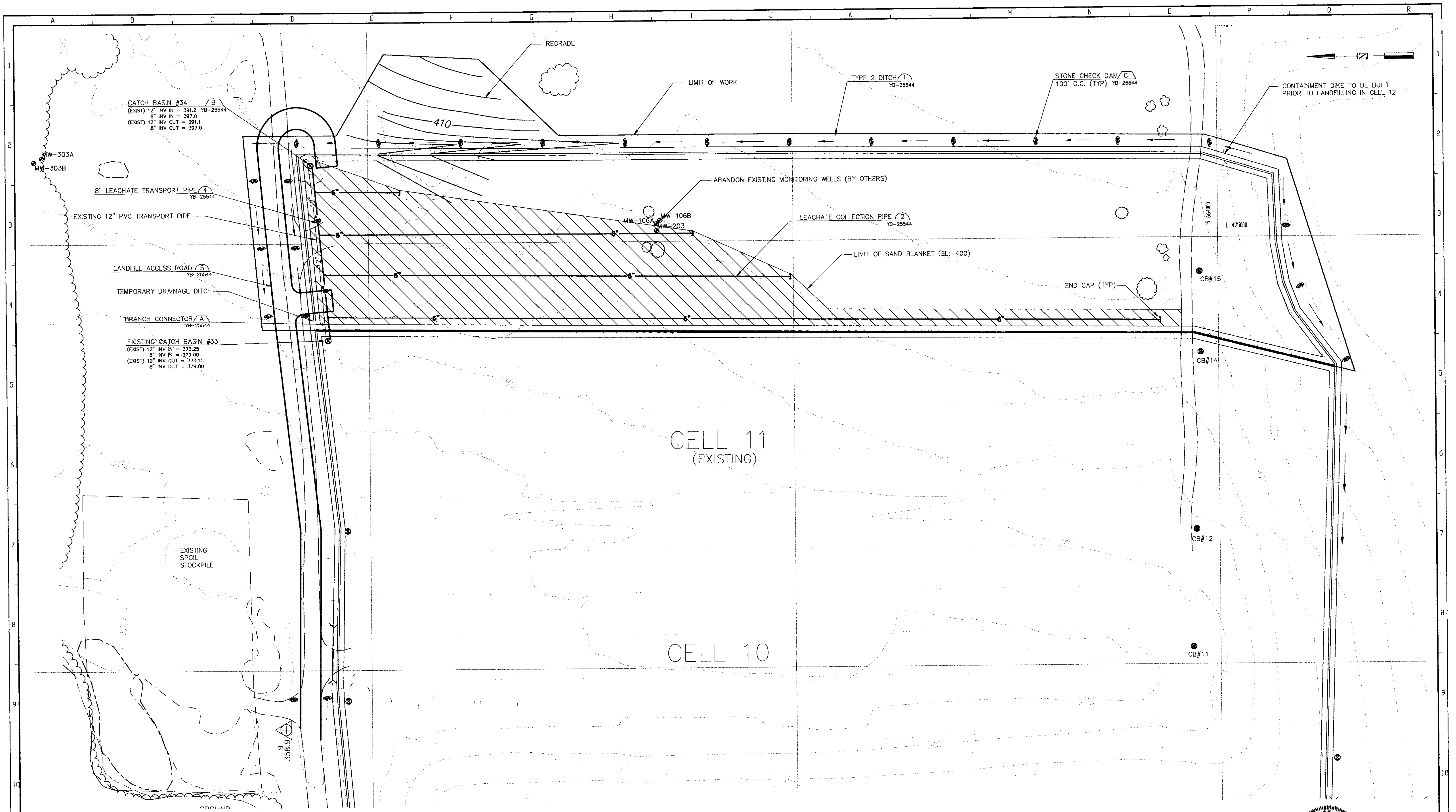
SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 00044

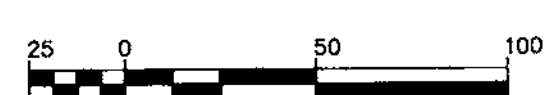
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APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	NONE	



EAST OPERATION	
DOLBY III LANDFILL	
CELL 12 CONSTRUCTION	
CELL 10 CLOSURE	
EXISTING CONDITIONS PLAN	
JOB NO.	94744
FILE NO.	2-092-7082
LOC. NO.	YB-25541



CELL 12 OPERATION NOTES (PRIOR TO FILLING)
 REMOVE 8 INCH CAP FROM CB #33.
 REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.
 BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 4.
 REMOVE EXISTING CATCH BASIN COVER ON CELL 4 (CB #16) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVER.



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REVISION	BY	CKD	APPV	JOB	CODE	DATE	REVISION	BY	CKD	APPV	JOB
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12	3	-	ASB	10/16/01	RECORD DRAWING											
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1	-	-	P	5/31/00	SUBMITTED TO CLIENT											

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 00044

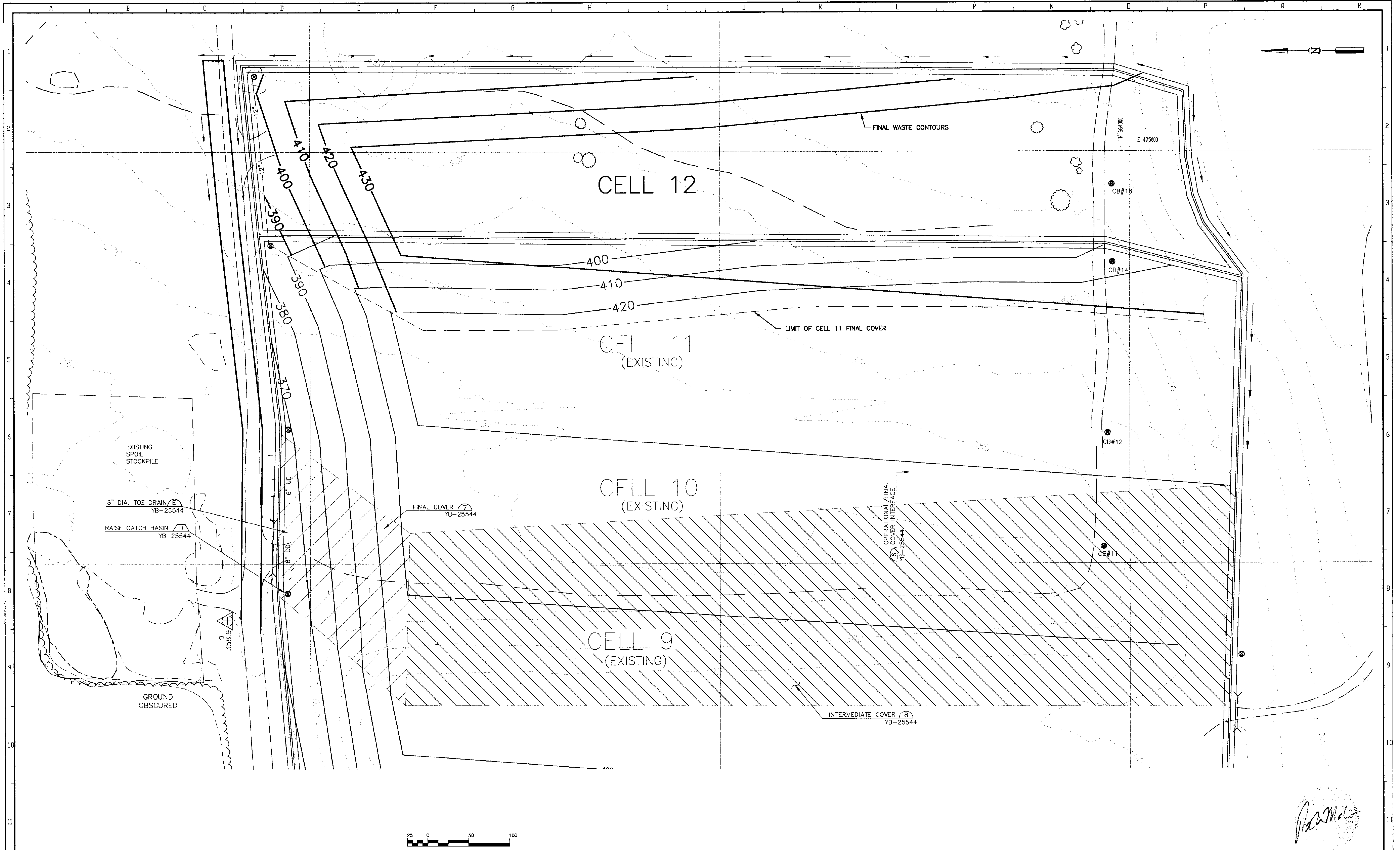
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APPV		
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P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	



CAD FILE: SITEDEV.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
CELL 12 - SITE DEVELOPMENT PLAN
 JOB NO. 94744
 FILE NO. P-022-7082
 LDC NO. **YB-25542**

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3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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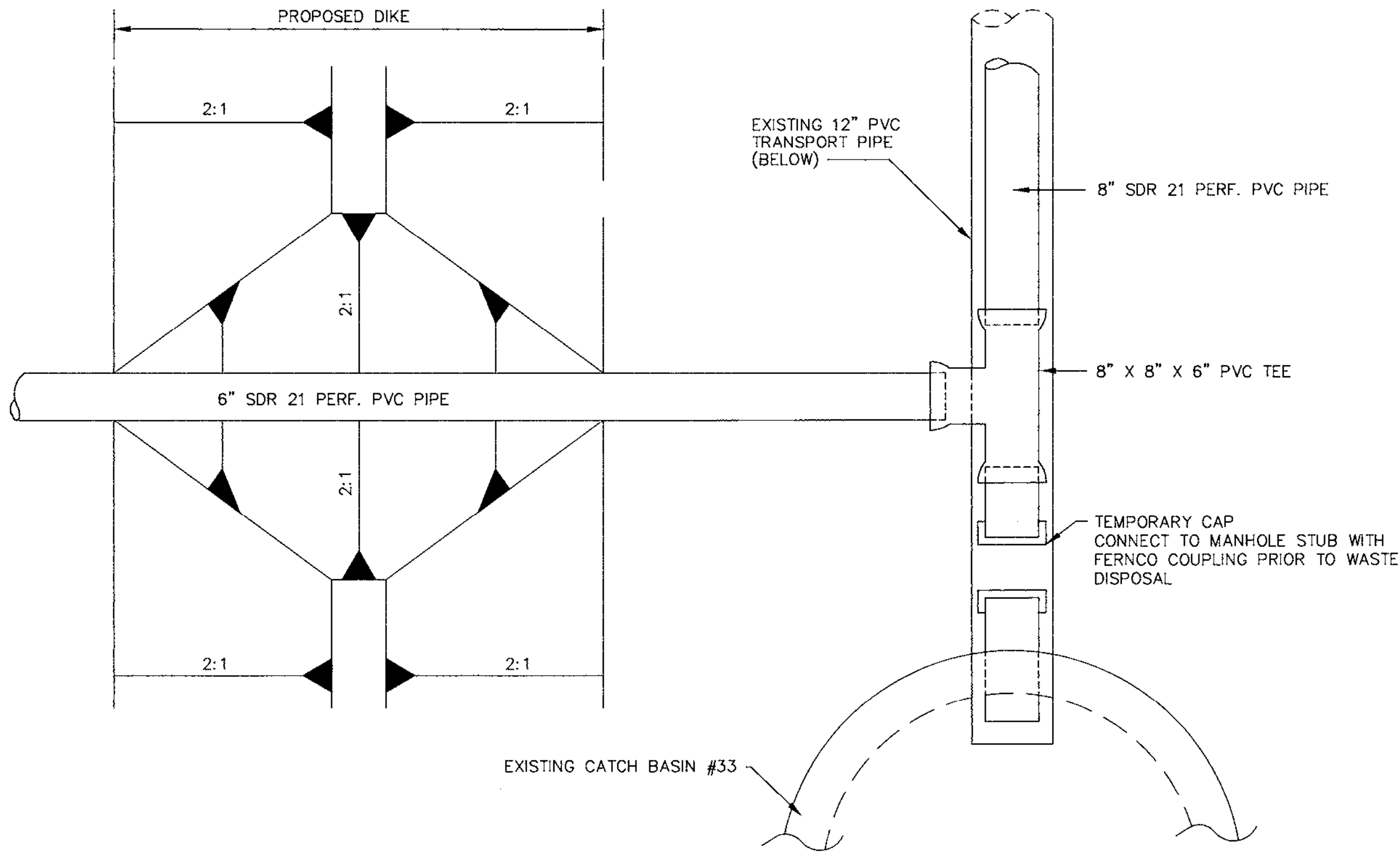
SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
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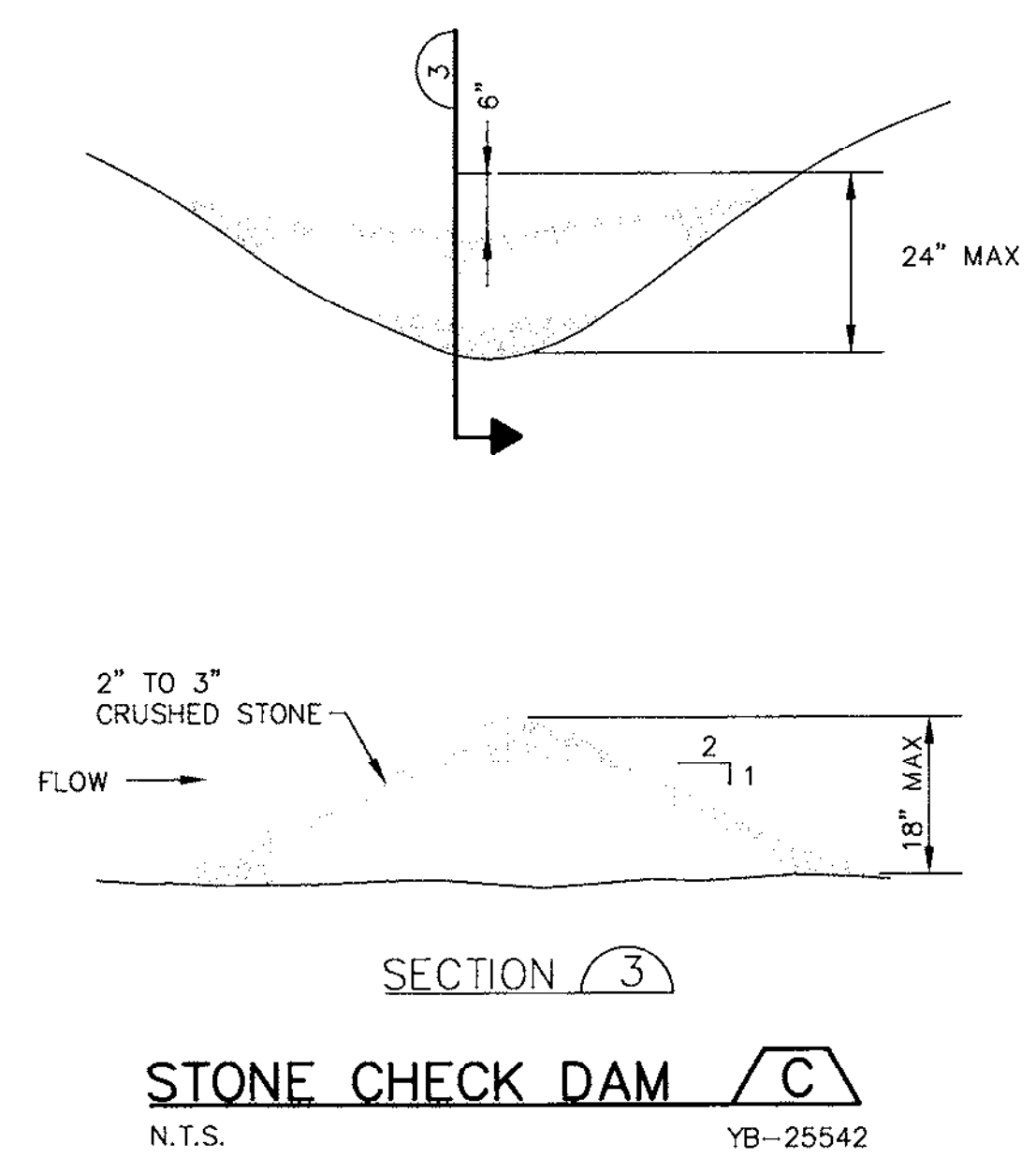


EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
OPERATIONAL GRADING PLAN
 JOB NO. 94744
 FILE NO. 2-992-7082
 LDC. NO. **YB-25543**

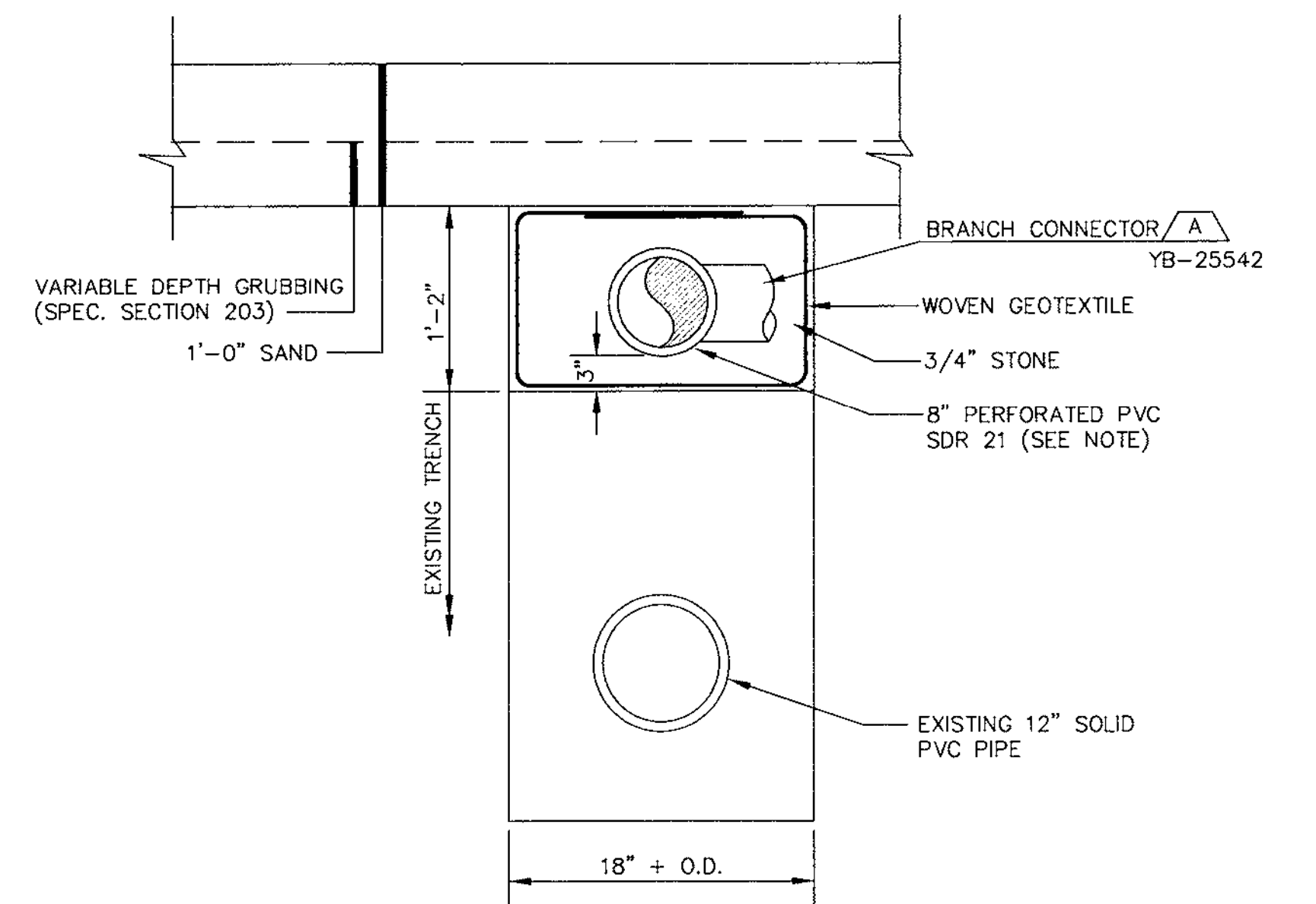
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BRANCH CONNECTOR A
N.T.S. YB-25542

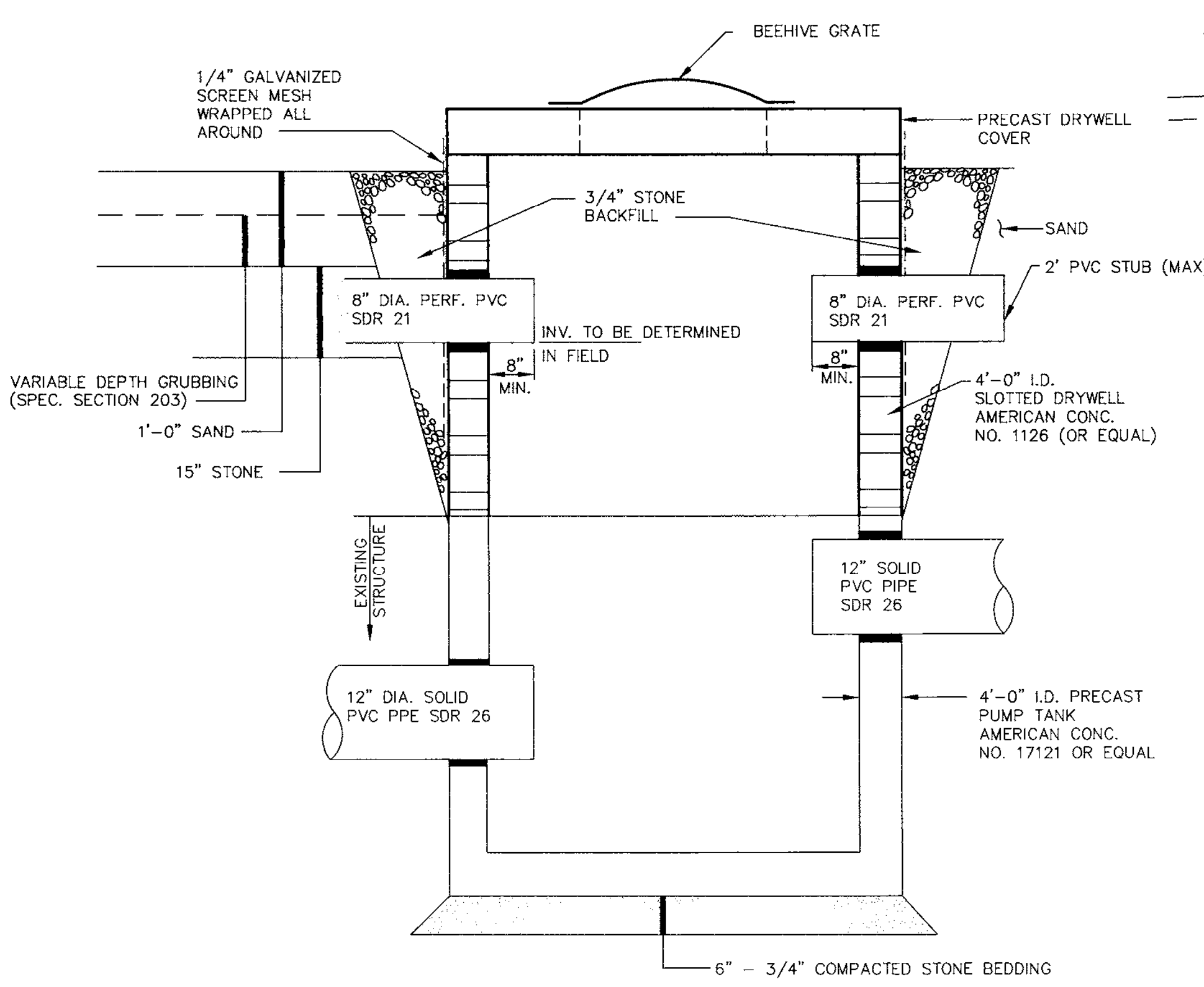


STONE CHECK DAM C
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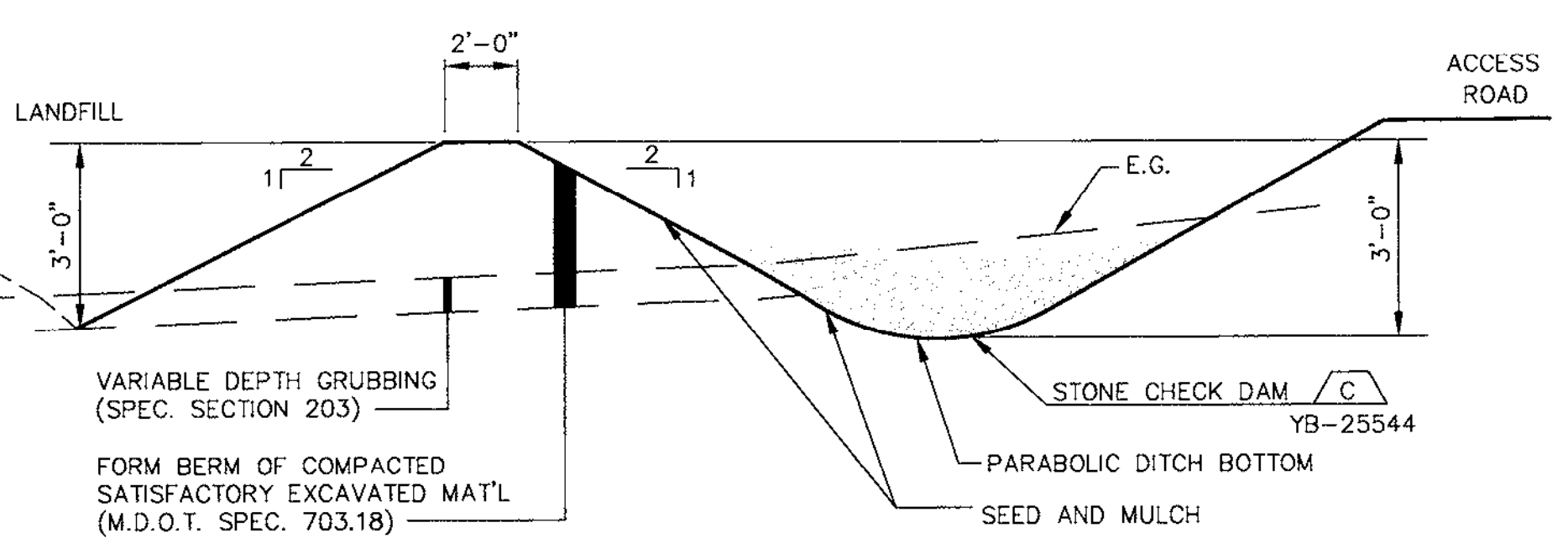


8" LEACHATE TRANSPORT PIPES 4
N.T.S. YB-25542

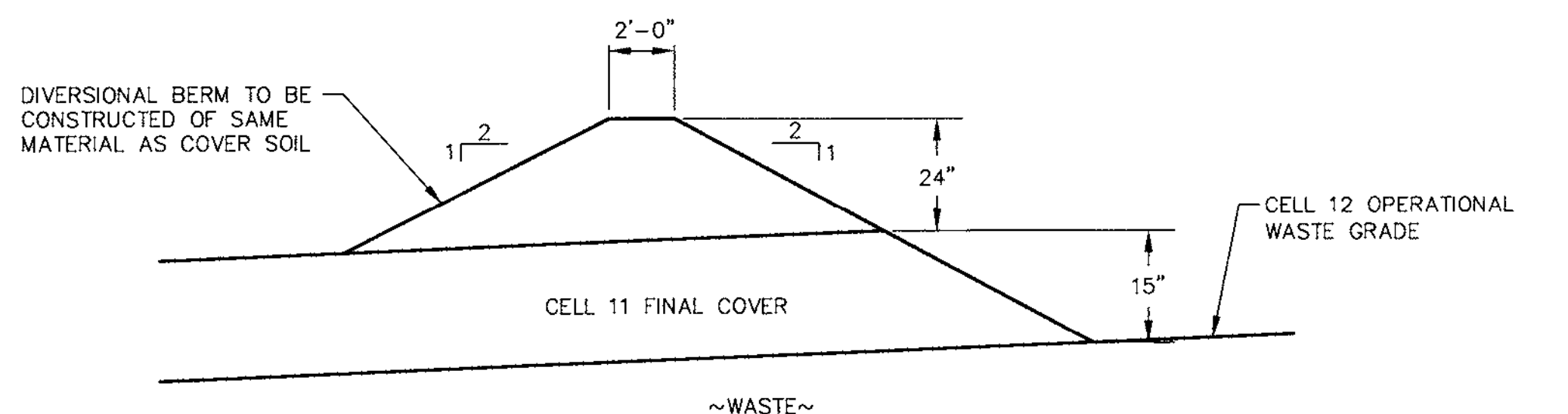
NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS, ROWS SHALL BE MINIMUM 45", MAXIMUM 60" FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.



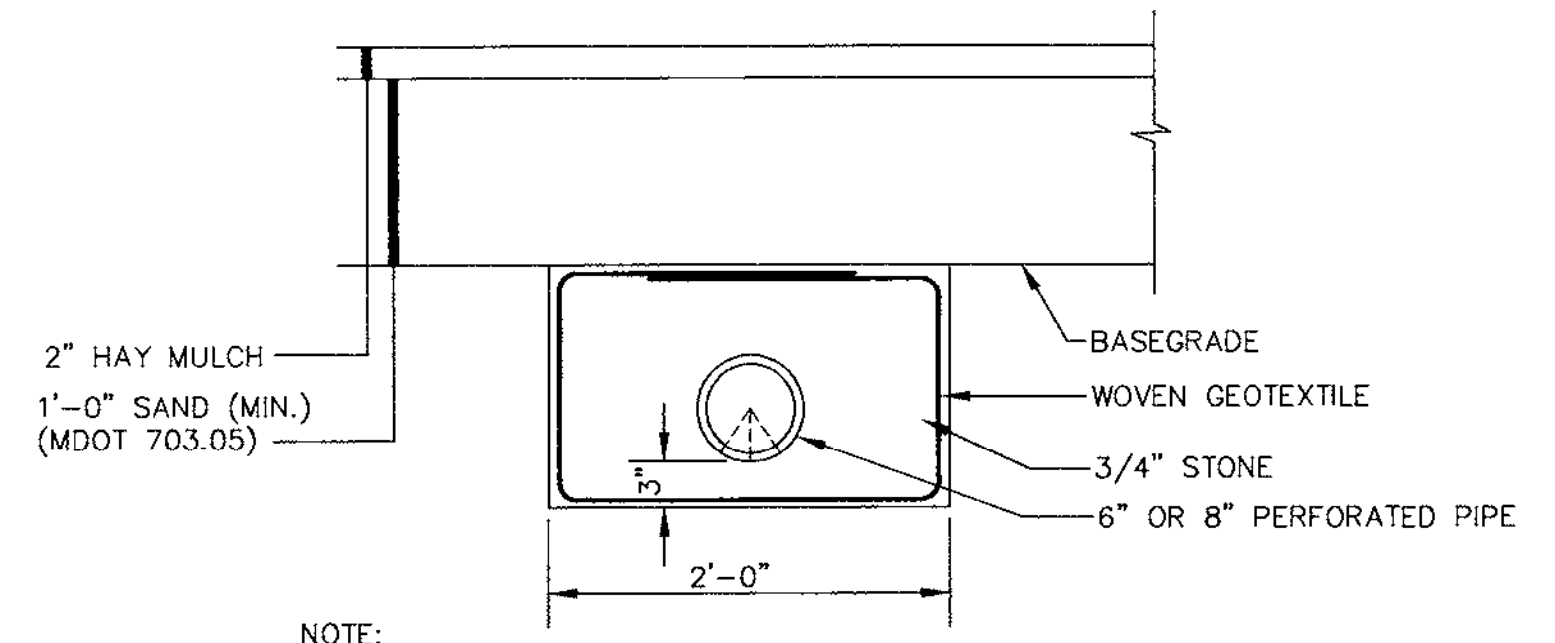
CATCH BASIN # 34 B
N.T.S. YB-25542



DIKE AND TYPE 2 DRAINAGE DITCH 1
N.T.S. YB-25542

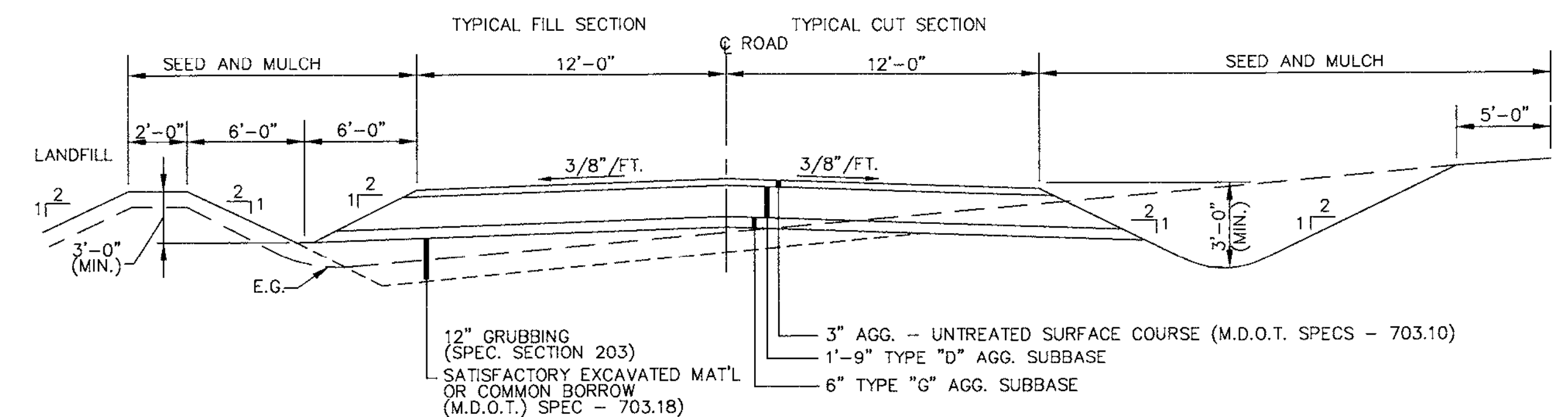


OPERATIONAL/FINAL COVER INTERFACE 6
N.T.S. YB-25543



LEACHATE COLLECTION PIPE 2
N.T.S. YB-25542

NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS, ROWS SHALL BE MINIMUM 45", MAXIMUM 60" FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.



LANDFILL ACCESS ROAD 5
N.T.S. YB-25542

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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2				6/8/00	C	ISSUED FOR CONSTRUCTION												
3																		
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SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

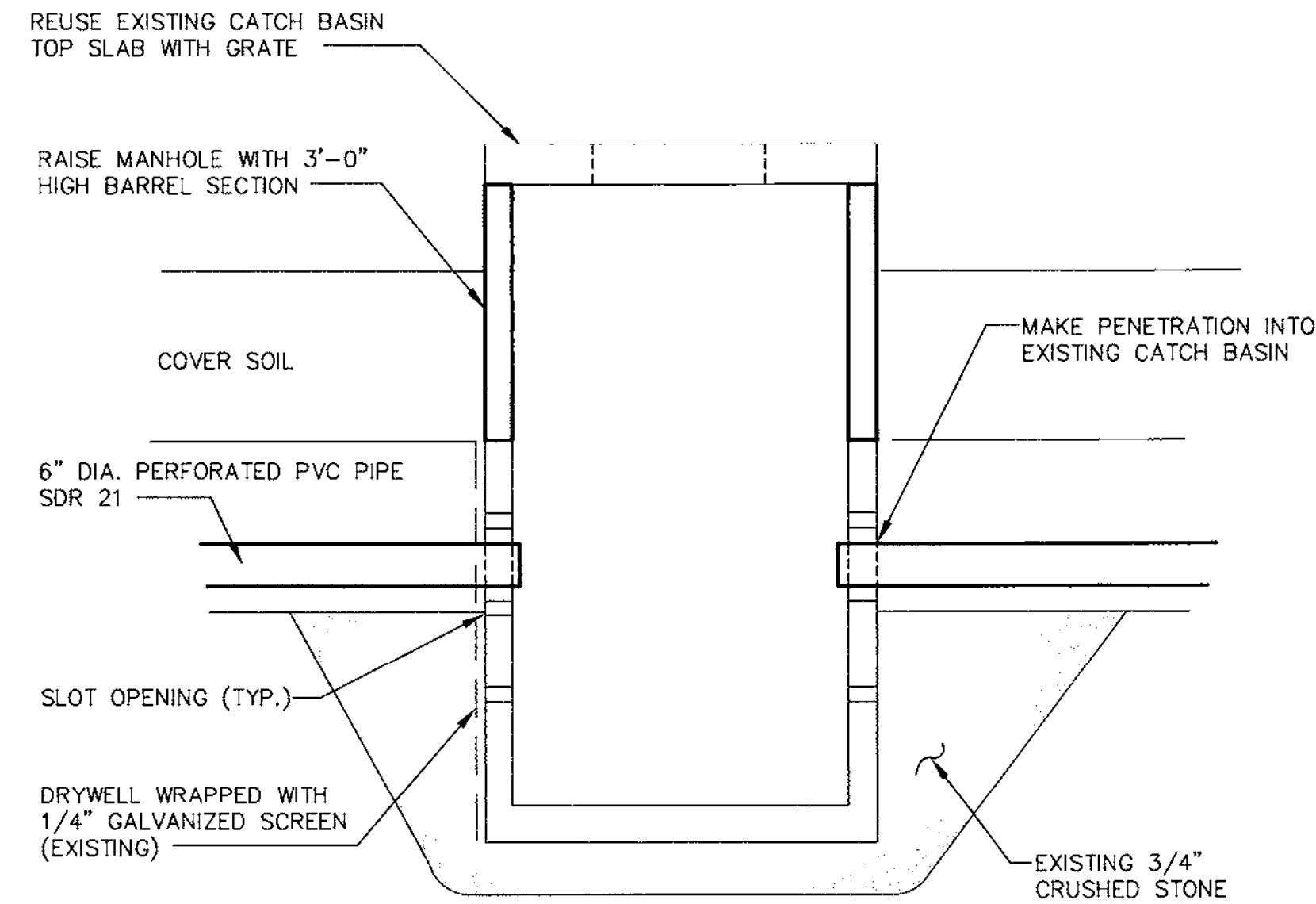
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CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

Great Northern
PAPER, INC.

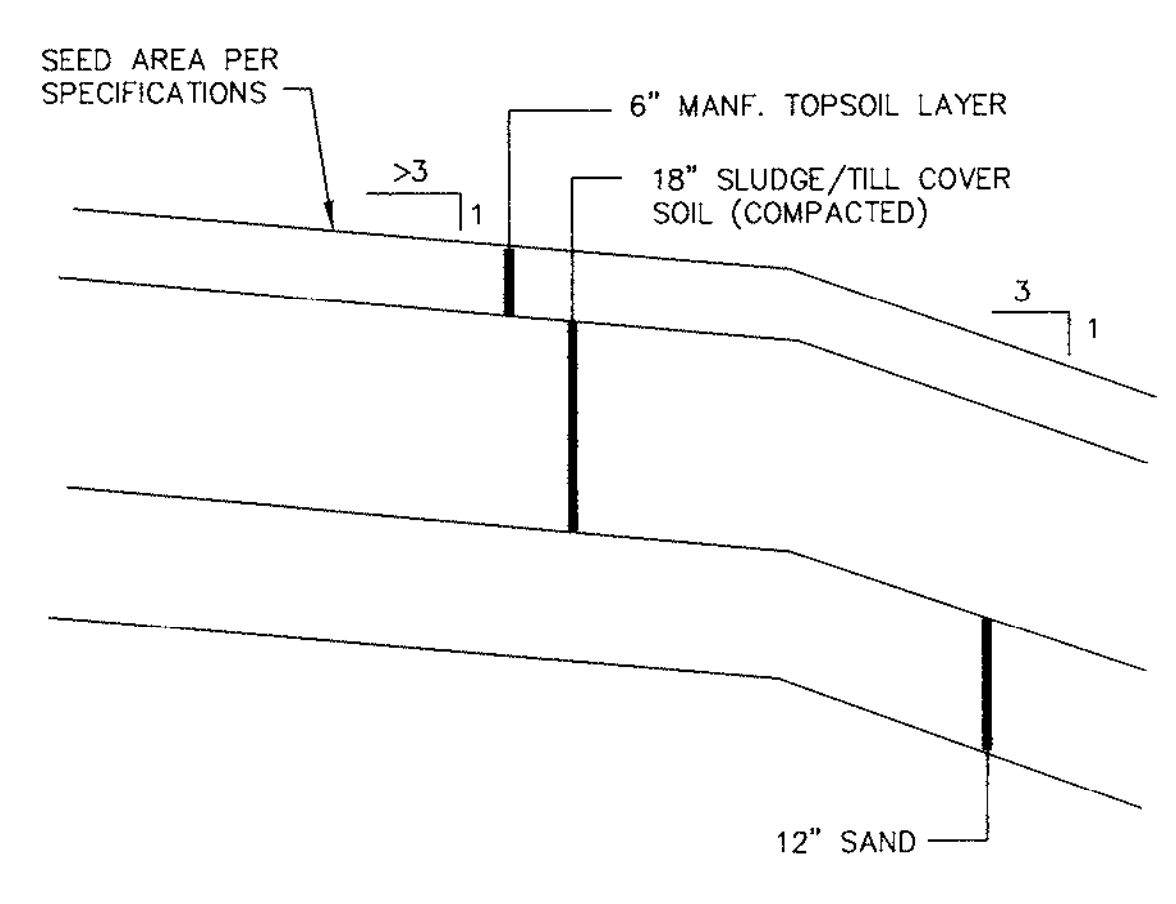
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EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SECTIONS & DETAILS
JOB NO. 94744
FILE NO. 2-992-7082
LIC. NO. **YB-25544**
SHEET 1 OF 2

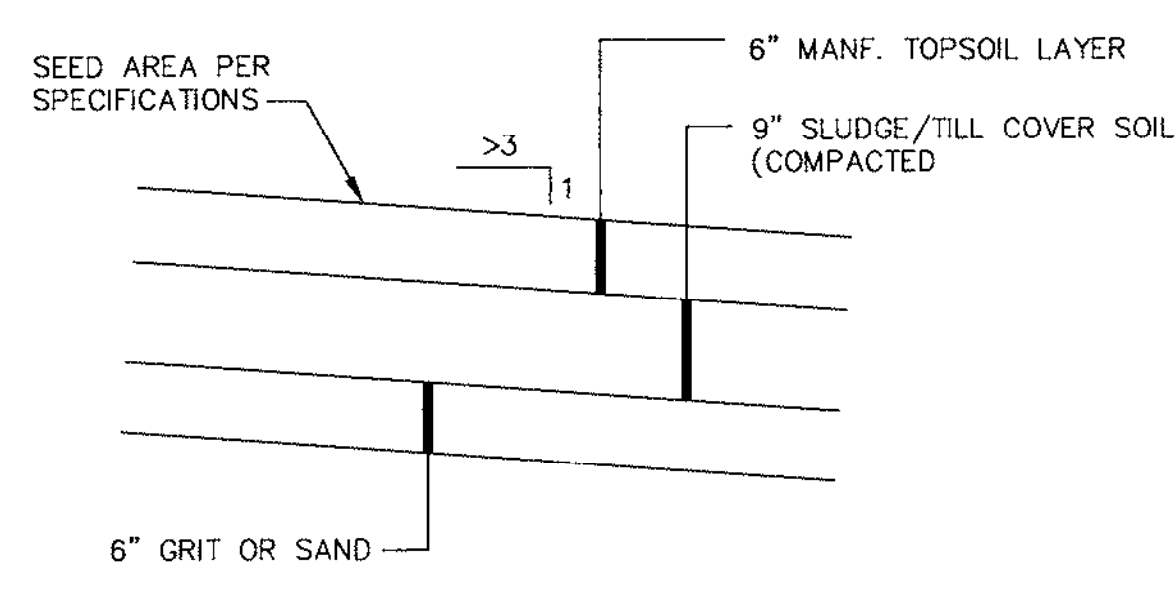
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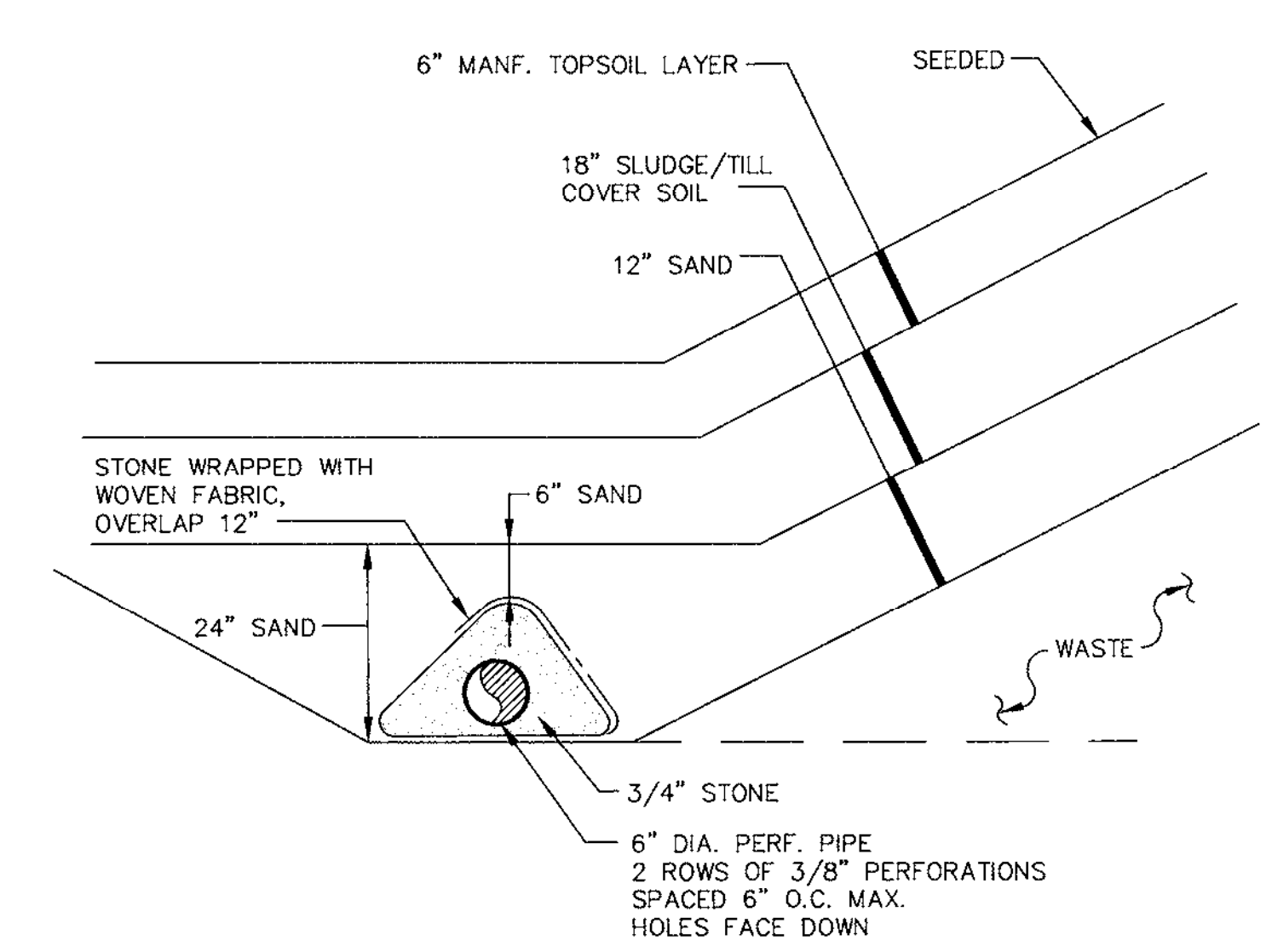
RAISE CATCH BASIN /D/
N.T.S. (EXISTING) YB-25543



FINAL COVER /7/
N.T.S. YB-25543



INTERMEDIATE COVER /8/
N.T.S. YB-25543



TOE DRAIN /E/
N.T.S. YB-25543

6:\p06\1\CAD\CELL\DETAILS.dwg Thu Jun 08 10:14:33 2000

Sevee & Maher

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-																	
4	-																	
12	3																	
2	-			6/8/00	C	ISSUED FOR CONSTRUCTION												
1	-			5/31/00	P	SUBMITTED TO CLIENT												

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MBISK	5/31/00
CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	



CAD FILE: DETAILS.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SECTIONS & DETAILS

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25544
SHEET 2 OF 2

SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		STONE WALL		MANHOLE		CATCH BASIN		WATER VALVE
	CONTOUR LINES		EDGE OF WATER		WATER ELEVATION (GROUND OR SURFACE)		HYDRANT		UTILITY POLE		CLEAN OUT STRUCTURE
	SPOT ELEVATION (GRADE)		FENCE LINE (WOOD)		FENCE LINE (WIRE)		UNDERGROUND GAS MAIN		UNDERGROUND TELEPHONE LINE		UNDERGROUND ELECTRICAL LINE
	EXISTING GROUND		RETAINING WALL		GUARD RAIL		OVERHEAD ELECTRICAL LINE		SANITARY SEWER (SIZE & TYPE)		FORCE MAIN (SIZE & TYPE)
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		SLOPE RATIO (HORIZONTAL TO VERTICAL)		SLOPES (WITH SLOPE RATIO)		WATER MAIN (SIZE & TYPE)		STORM DRAIN (SIZE & TYPE)		UNDERDRAIN (SIZE & TYPE)
	PROPERTY LINE OR R.O.W.		BUILDING AND STRUCTURES		CLEARING LIMIT LINE		BITUMINOUS PAVEMENT		CONCRETE		CULVERT
	PROPERTY LINE W/ BEARING AND DISTANCE		SLOPE RATIO (HORIZONTAL TO VERTICAL)		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		RAILROAD		SILTATION FENCE		PERIMETER DRAIN (SIZE & TYPE)
	CONSTRUCTION BASELINE		SLOPES (WITH SLOPE RATIO)		EDGE OF TRAVELED WAY		LEACHATE TRANSPORT (SIZE & TYPE)		LEACHATE COLLECTION (SIZE & TYPE)		LEAK DETECTION, SIZE & TYPE
	BOUNDARY LINE (State, County, Municipality)		CUT OR FILL LINE		CLEARING LIMIT LINE		TERRACE DRAINAGE SWALE		GRAVITY SEWER		SOLID WALL PIPE
	SURVEY MONUMENT		WOODS OR BRUSH LINE		INDIVIDUAL TREE (Deciduous)		INDIVIDUAL TREE (Coniferous)		TREE, TO BE REMOVED		MAPPED WETLAND
	SURVEY IRON		DRILL HOLE, PK, OR STAKE		INDIVIDUAL TREE (Deciduous)		INDIVIDUAL TREE (Coniferous)		TREE, TO BE REMOVED		MAPPED WETLAND
	WOODS OR BRUSH LINE		INDIVIDUAL TREE (Deciduous)		INDIVIDUAL TREE (Coniferous)		TREE, TO BE REMOVED		MAPPED WETLAND		MAPPED WETLAND
	INDIVIDUAL TREE (Deciduous)		INDIVIDUAL TREE (Coniferous)		TREE, TO BE REMOVED		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND
	TREE, TO BE REMOVED		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND
	MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND		MAPPED WETLAND

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW - MDT SPECIFICATION 703.18

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

SAND BLANKET - MDT SPECIFICATION 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PVC PIPE - SDR 35

6" PVC PIPE - SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 13 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

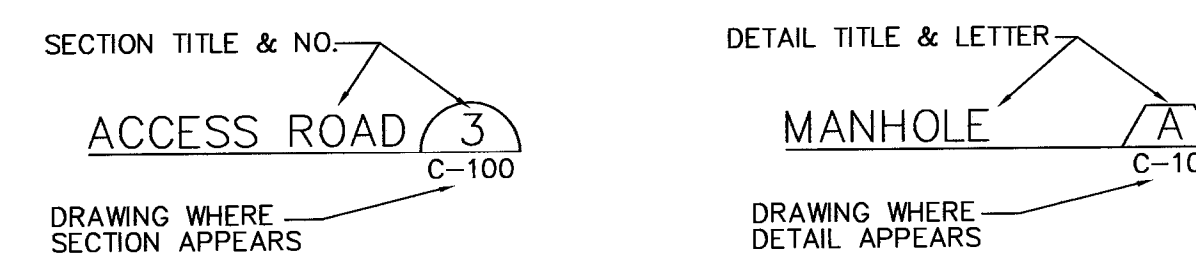
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDT 618.05 AND MDT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION



<p>A.C.C.M.P. A.C.P. AC AGG ALUM APPD APPROX ARMH ASB ASPH AUTO AUX AVE AZ</p> <p>B.C.C.M.P. S.M. BIT BLDG BOT BRG</p> <p>C.B. CEN CEM. LIN. C.M.P. C.O. CF CFS C CI CONC CONST CONTR CTR CY</p>	<p>ASPHALT COATED C.M.P. ASBESTOS CEMENT PIPE ACRE AGGREGATE ALUMINUM APPROVED APPROXIMATE AIR RELEASE MANHOLE ASB ASPH AUTOMATIC AUXILIARY AVENUE AZIMUTH</p> <p>BITUMINOUS COATED C.M.P. BENCH MARK BITUMINOUS BUILDING BOTTOM BEARING</p> <p>CATCH BASIN CEMENT LINED CORRUGATED METAL PIPE CLEAN OUT CUBIC FEET CUBIC FEET PER SECOND CAST IRON CLASS CONCRETE CONSTRUCTION CONTRACTOR CENTER CUBIC YARD</p>	<p>D DEB DEG OR DEPT DI DIA OR # DIM DN DR DWG EA EG ELEC ELEVATION ELB EQUIP EST EXC EXIST</p> <p>F.G. FBRGL FON FLEX FLG FLR FPS FT OR FTG</p> <p>GA GAL GALV GPD GPM</p>	<p>DEGREE OF CURVE DOUBLE DIAMETER DEPARTMENT DUCTILE IRON DIAMETER DIMENSION DISTANCE DOWN DRAIN DRAWING EACH EXISTING GROUND OR GRADE ELECTRIC ELEVATION ELBOW EQUIPMENT ESTIMATED EXCAVATE EXISTING</p> <p>FINISH GRADE FIBERGLASS FOUNDATION FLEXIBLE FLANGE FLOOR FEET PER SECOND FEET FOOTING</p> <p>GAUGE GALLON GALLONZ GALLONS PER DAY GALLONS PER MINUTE</p>	<p>HDPE HP HYD</p> <p>I.D. IN OR INV INV. EL</p> <p>LB LC LD LN FT. LOC LT</p> <p>M.H. M.J. MATL MAX MFR MIN MISC MON</p> <p>N.I.T.C. N.T.S. N/O NO. OR #</p> <p>O.C. O.D.</p>	<p>HIGH DENSITY POLYETHYLENE HORSEPOWER HYDRANT</p> <p>INSIDE DIAMETER INCHES INVERT INVERT ELEVATION</p> <p>POUND LEACHATE COLLECTION LEAK DETECTION LINEAR FEET LOCATION LEACHATE TRANSPORT</p> <p>MANHOLE MECHANICAL JOINT MATERIAL MAXIMUM MANUFACTURE MINIMUM MISCELLANEOUS MONUMENT</p> <p>NOT IN THIS CONTRACT NOT TO SCALE NOW OR FORMERLY NUMBER</p> <p>ON CENTER OUTSIDE DIAMETER</p>	<p>P.C. PD P.I. P.T. PERF PSI PVC PVMT</p> <p>QTY</p> <p>R.O.W. RAD REQD RT RTE</p> <p>S SCH SF SHT STA SY</p> <p>TAN TDH TEMP TYP</p> <p>V VOLTS</p> <p>W/ W/O YD</p>	<p>POINT ON CURVE PERIMETER DRAIN POINT OF INTERSECTION POINT OF TANGENT PERFORATED POUNDS PER SQUARE INCH POLYVINYL CHLORIDE PAVEMENT</p> <p>QUANTITY</p> <p>RIGHT OF WAY RADIUS REQUIRED RIGHT ROUTE</p> <p>SLOPE SCHEDULE SQUARE FEET SHEET STATION SQUARE YARD</p> <p>TANGENT TOTAL DYNAMIC HEAD TEMPORARY TYPICAL</p> <p>VOLTS</p> <p>WITH WITHOUT YARD</p>
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SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

JOB NO. 02021

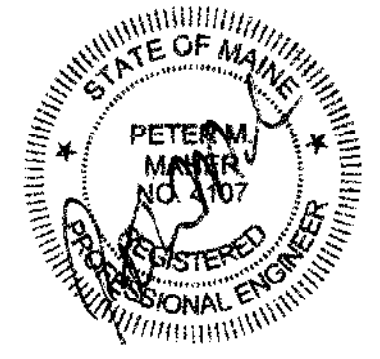
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CHKD	GHC	3/8/02
APPVD	-	-
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

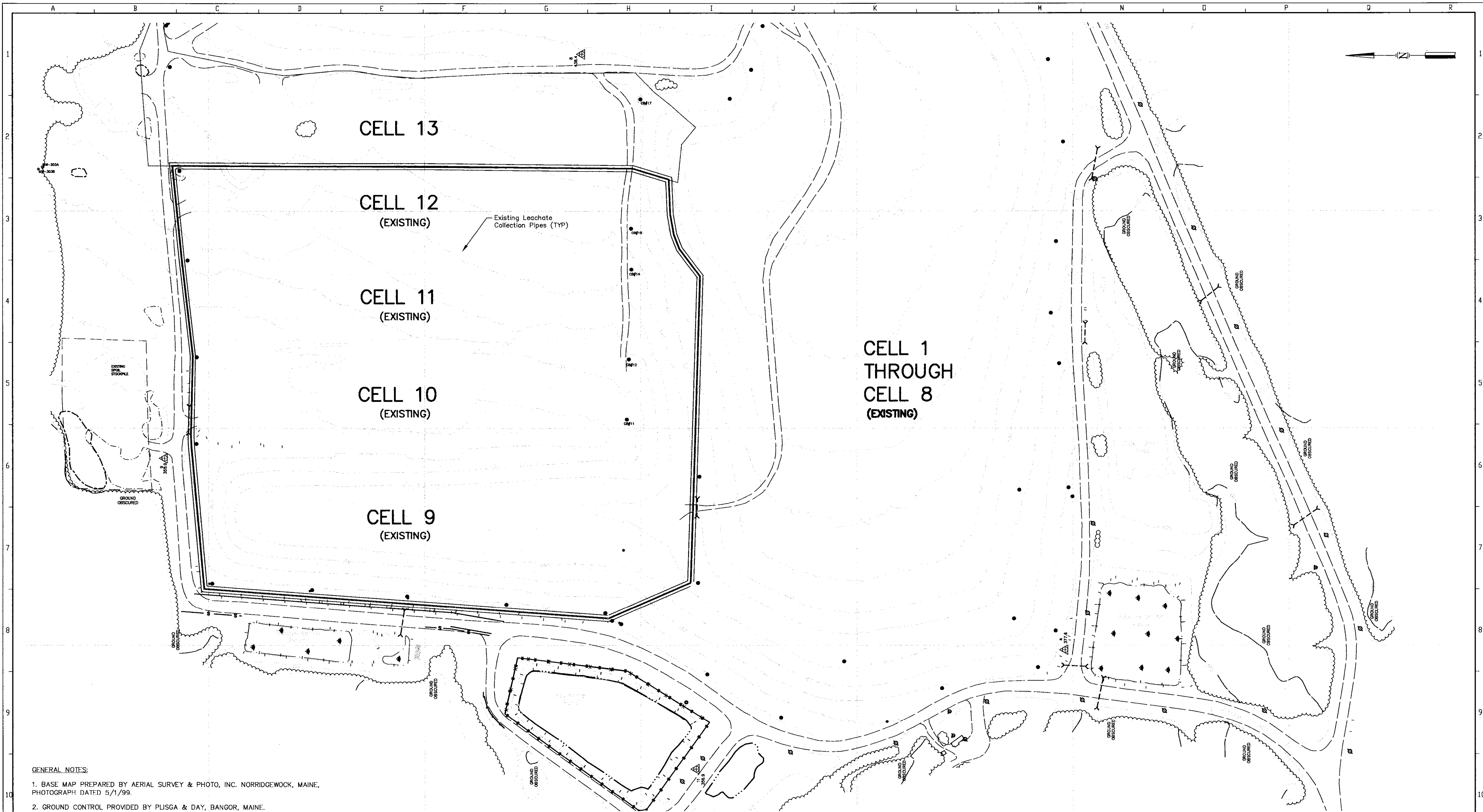
KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

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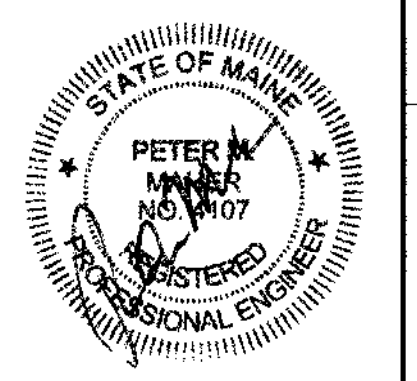
EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 24768
FILE NO. 2-092-7082
LDC. NO. **YB-26078**





- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
 5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 12. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-																	
4	-																	
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2	-			4/29/02	C	ISSUED FOR CONSTRUCTION	GHC											
1	-				P	SUBMITTED TO CLIENT	GHC											

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NINE	

KATAHDIN PAPER COMPANY, LLC.
 MILLINOCKET, MAINE

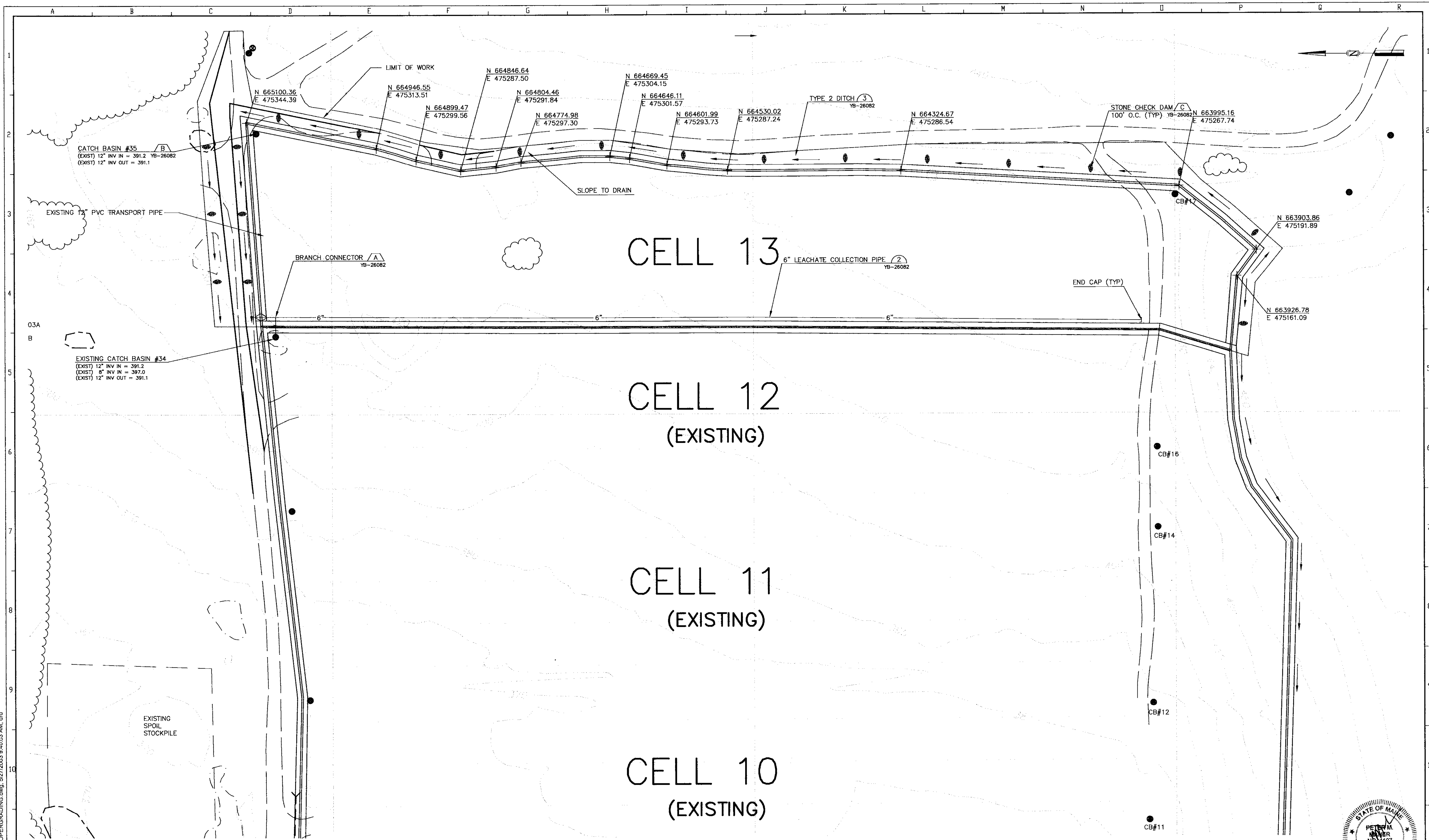
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EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
EXISTING CONDITIONS PLAN

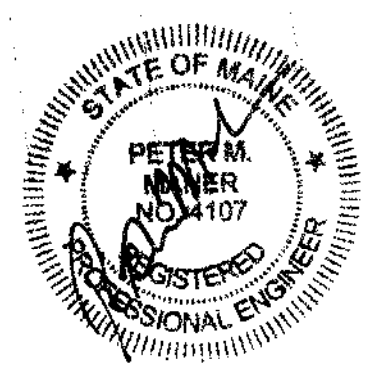
JOB NO. 94768
 FILE NO. 2-092-7082
 LDC. NO. _____

YB-26079

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CELL 13 OPERATION NOTES (PRIOR TO FILLING)
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 5.



NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	5/03	ASB	RECORD DRAWING													
2	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION													
1	-	-	-	P	SUBMITTED TO CLIENT													

SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 02021

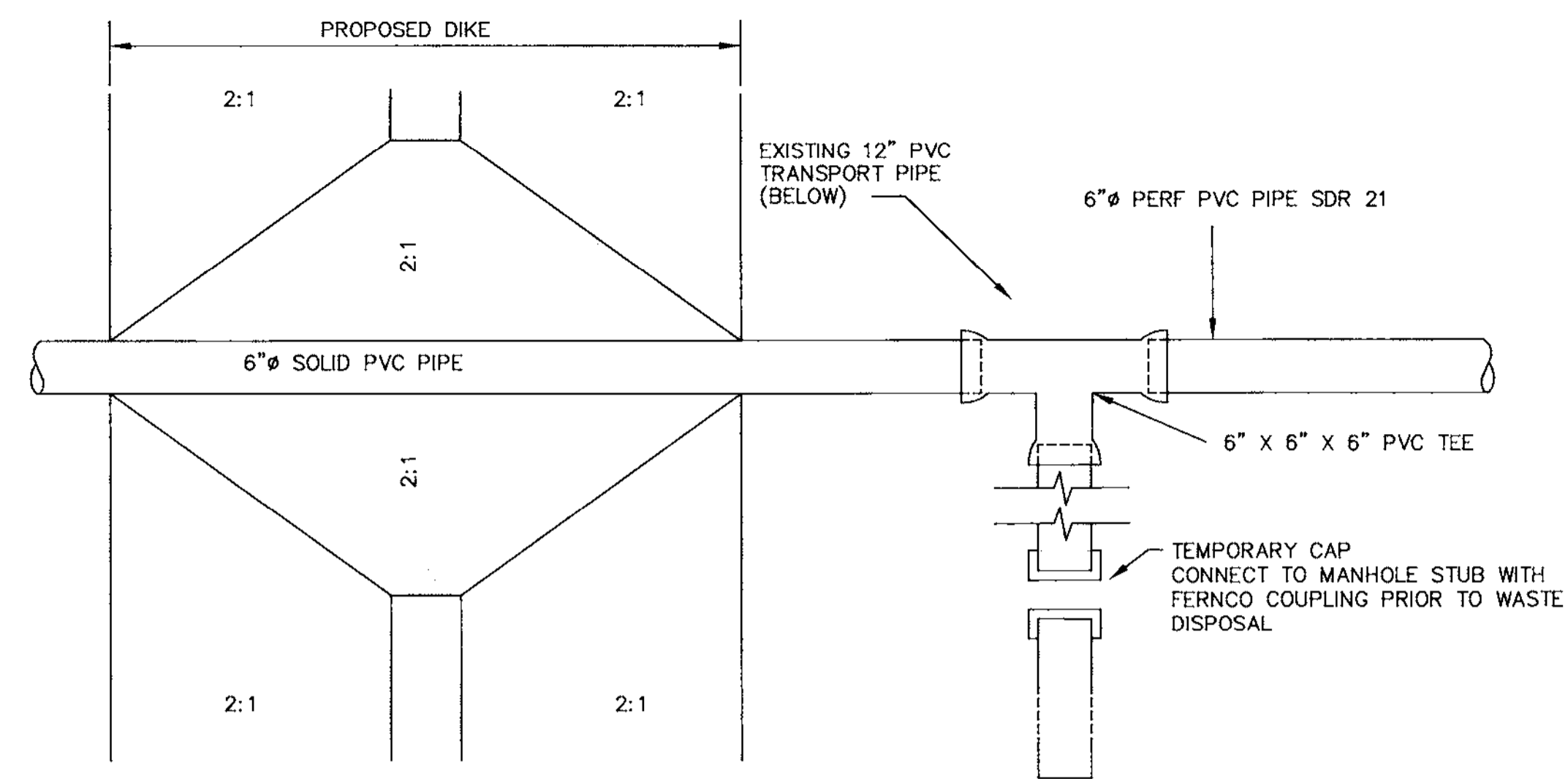
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CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
 MILLINOCKET, MAINE

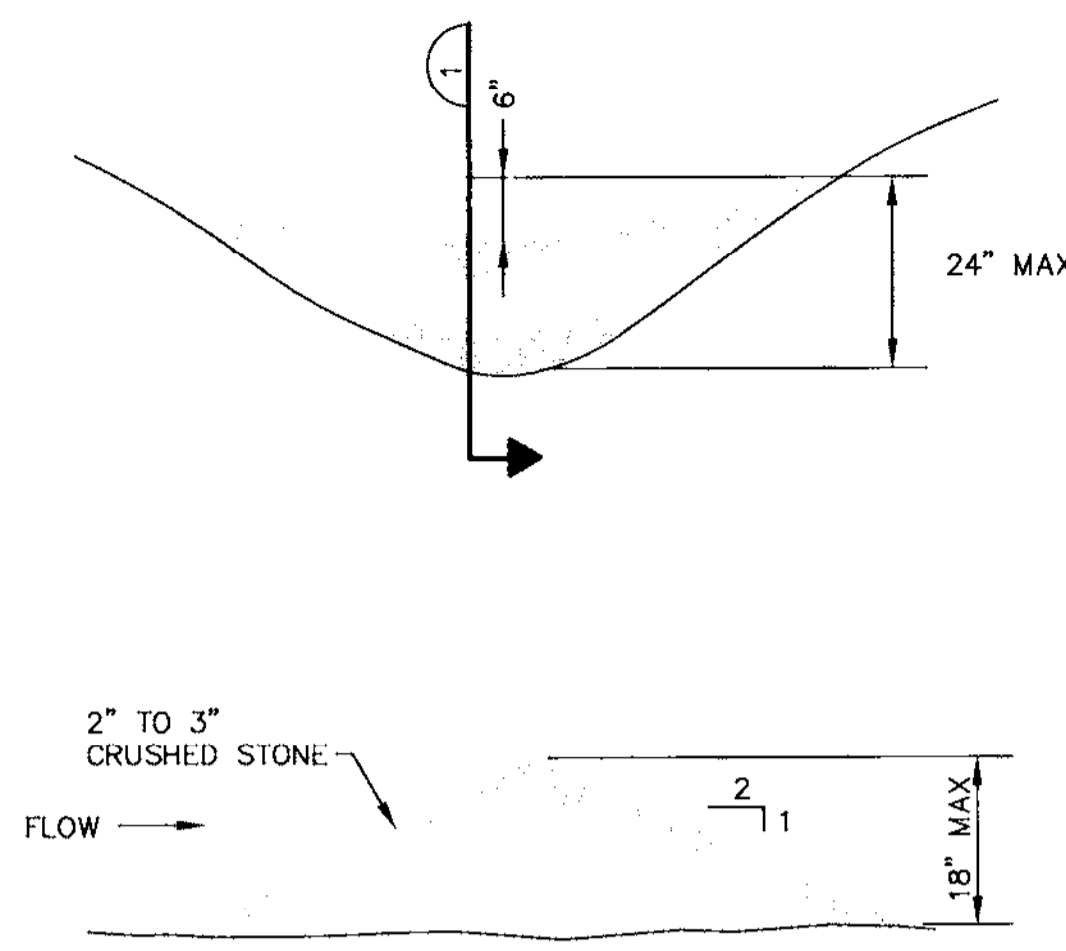
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EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
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 JOB NO. 24768
 FILE NO. 2-092-2082
YB-26080

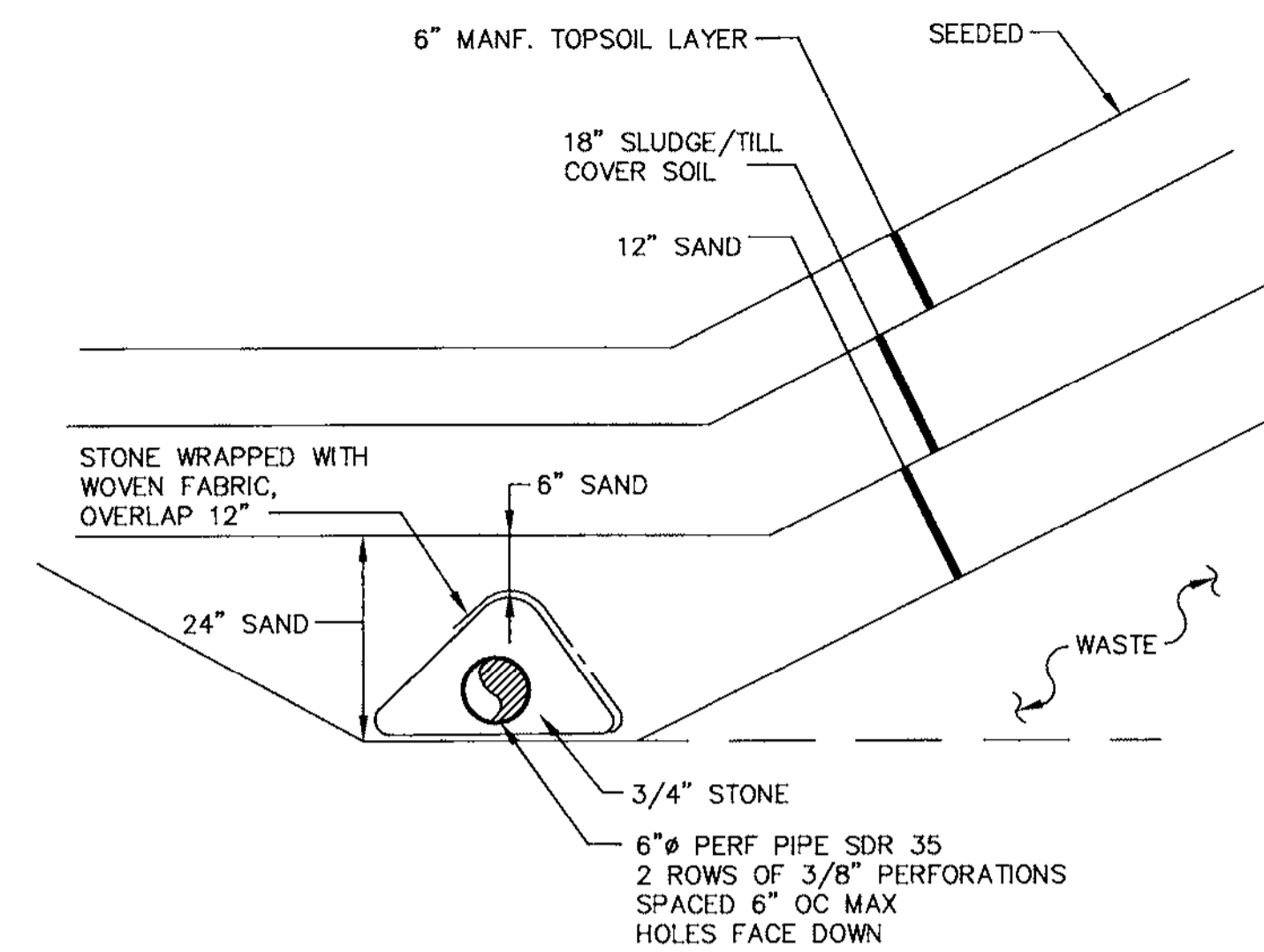
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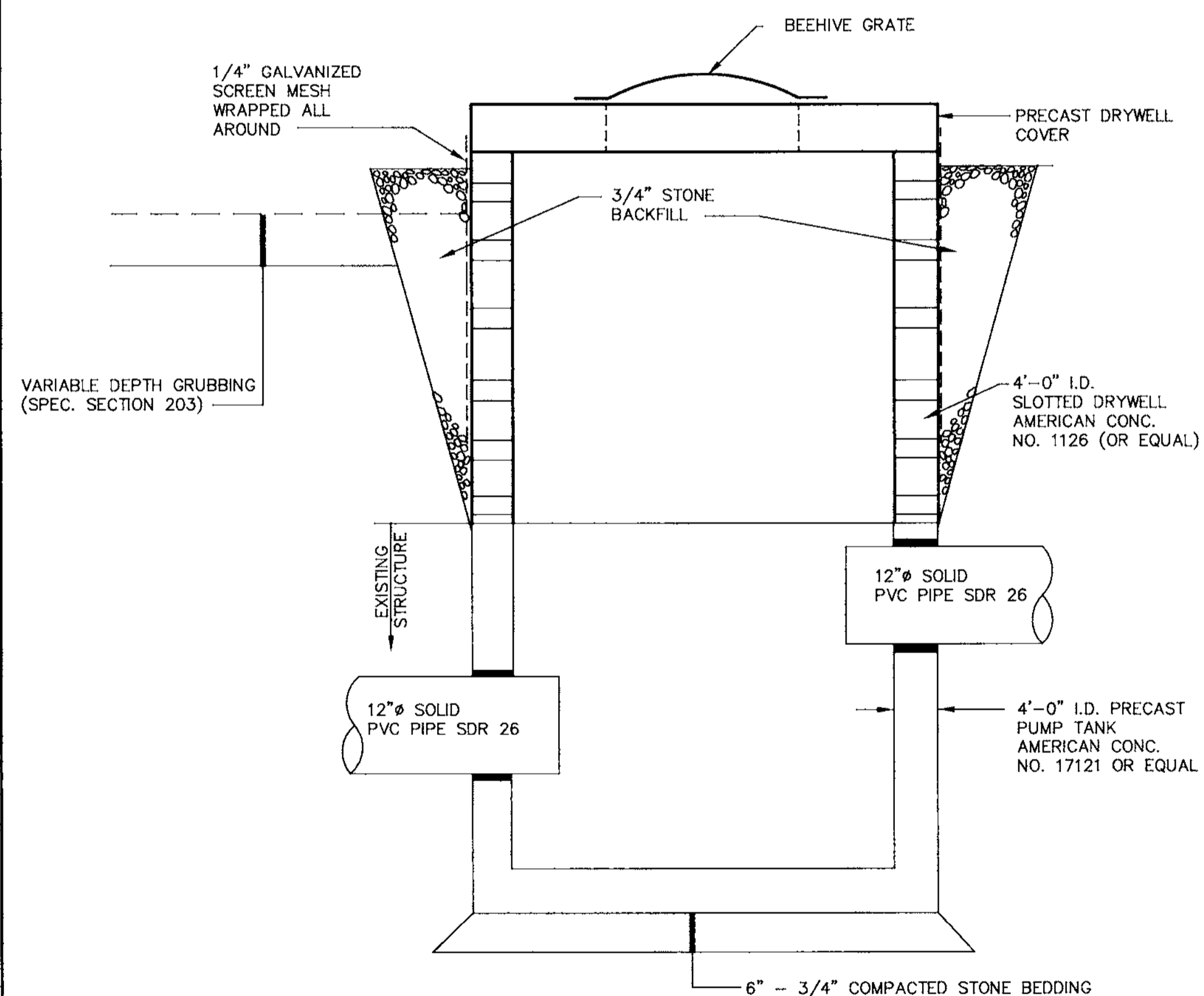
BRANCH CONNECTOR **A**
N.T.S. YB-26080



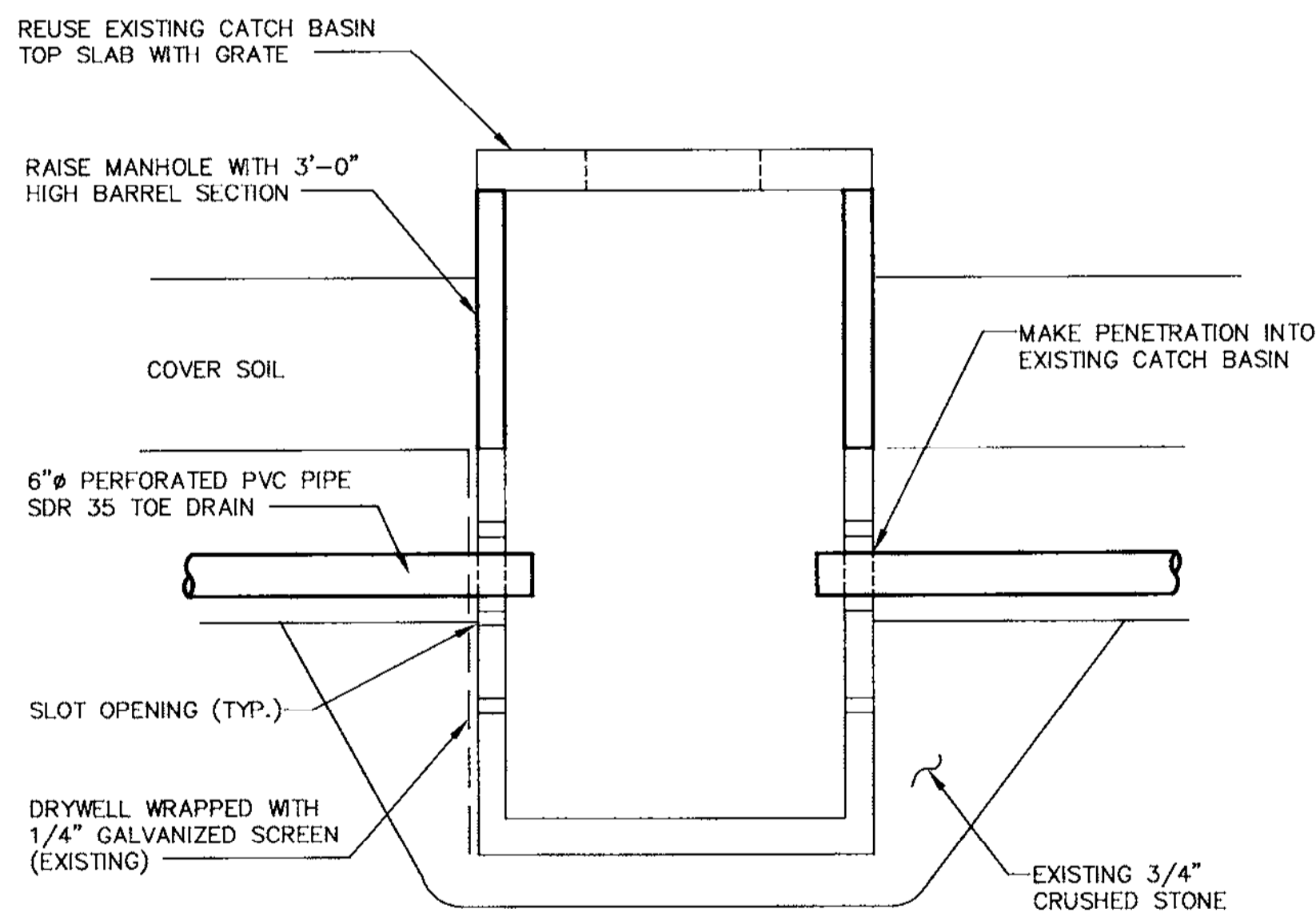
STONE CHECK DAM **C**
N.T.S. YB-26080



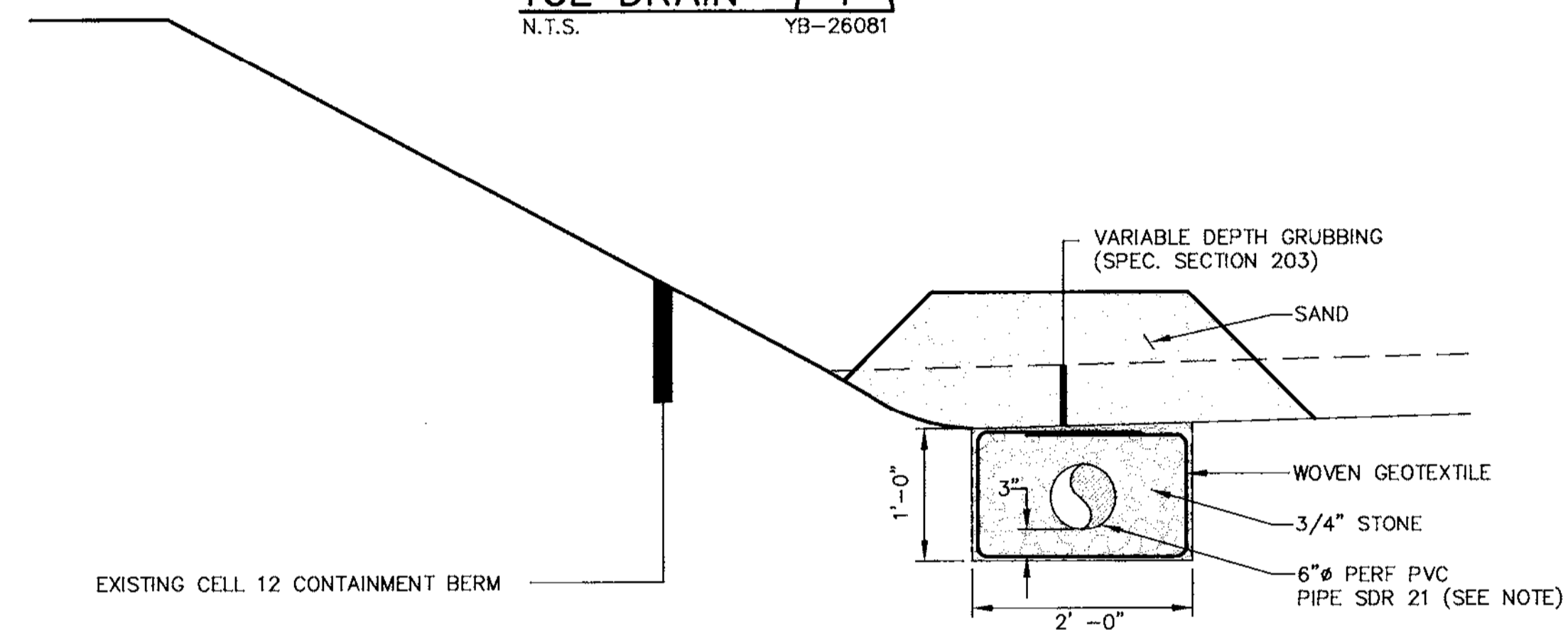
TOE DRAIN **1**
N.T.S. YB-26081



CATCH BASIN # 35 **B**
N.T.S. YB-26080

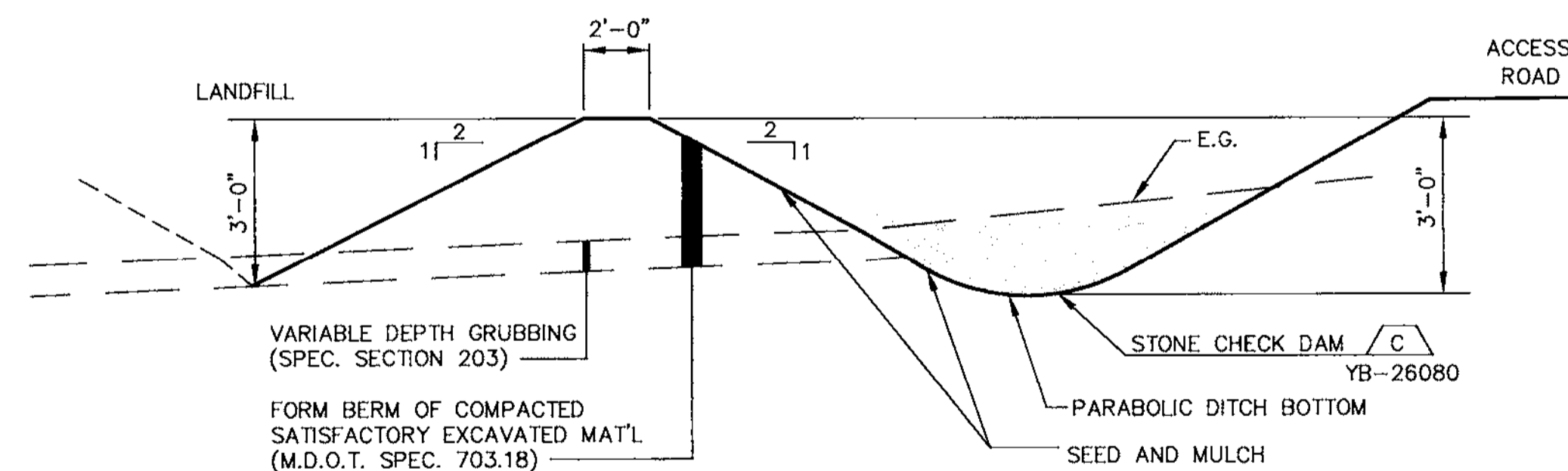


RAISE CATCH BASIN **D**
N.T.S. (EXISTING) YB-26081



NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS. ROWS SHALL BE MINIMUM 45', MAXIMUM 60' FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.

6" LEACHATE COLLECTION PIPE **2**
N.T.S. YB-26080



DIKE AND TYPE 2 DRAINAGE DITCH **3**
N.T.S. YB-26080

REV. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	5/03	ASB	RECORD DRAWING											
2	-	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC										
1	-	-	-	-	P	SUBMITTED TO CLIENT	GHC										

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JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
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ISSUE CODE		
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B	-	Bids
C	-	Construction
ASB	-	As Built
SCALE	NONE	

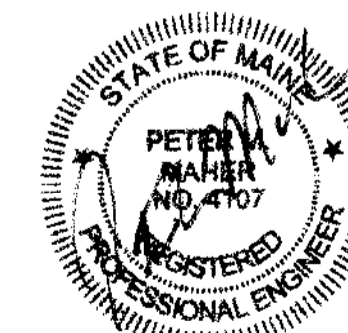
KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

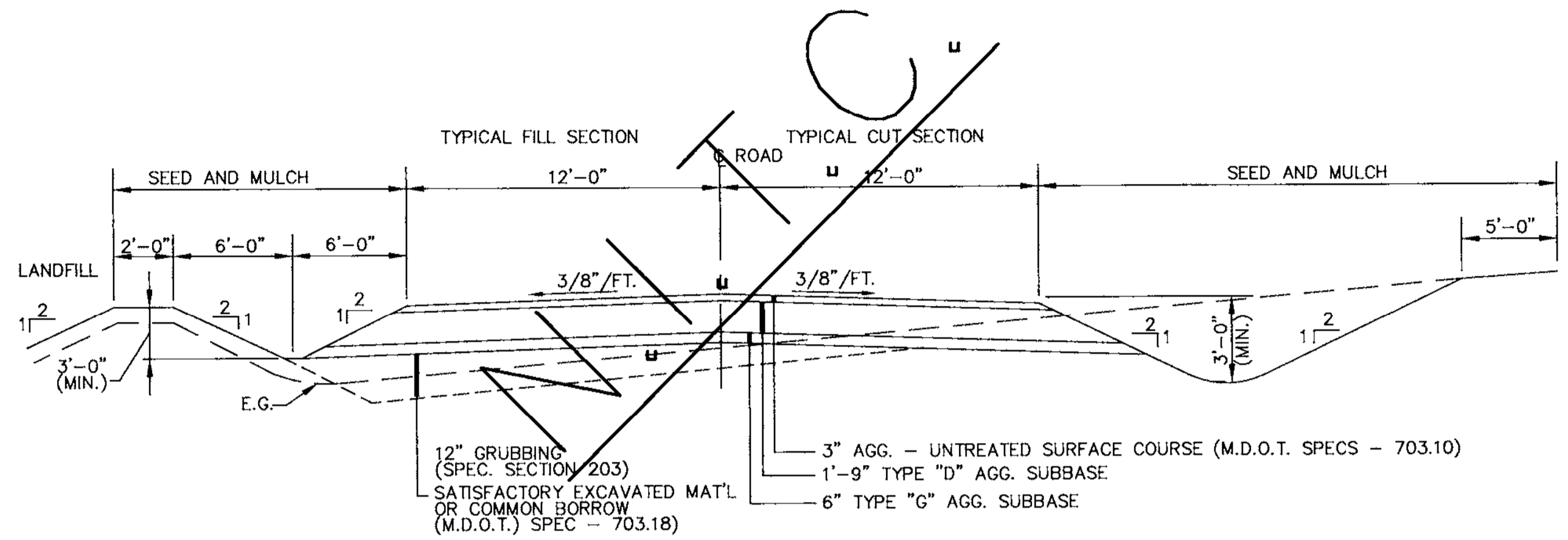
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EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS

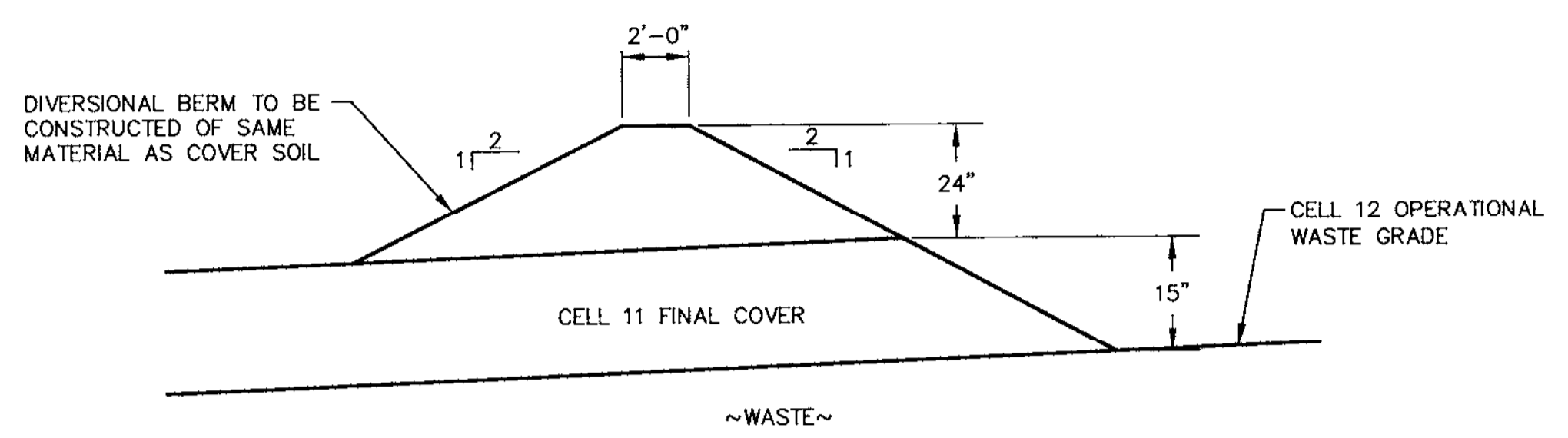
JOB NO. 9476R
FILE NO. 2-092-7082
LDC. NO.

YB-26082
SHEET 1 OF 3

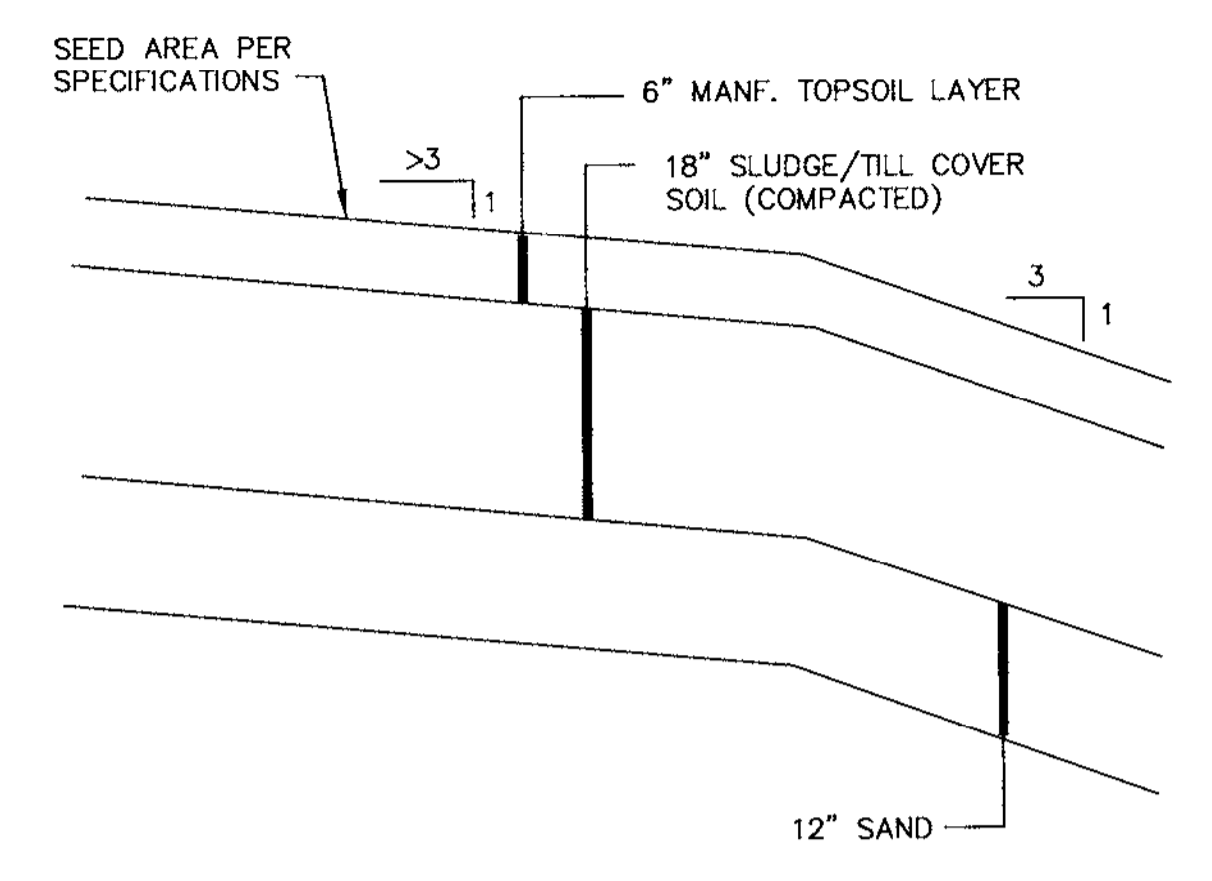




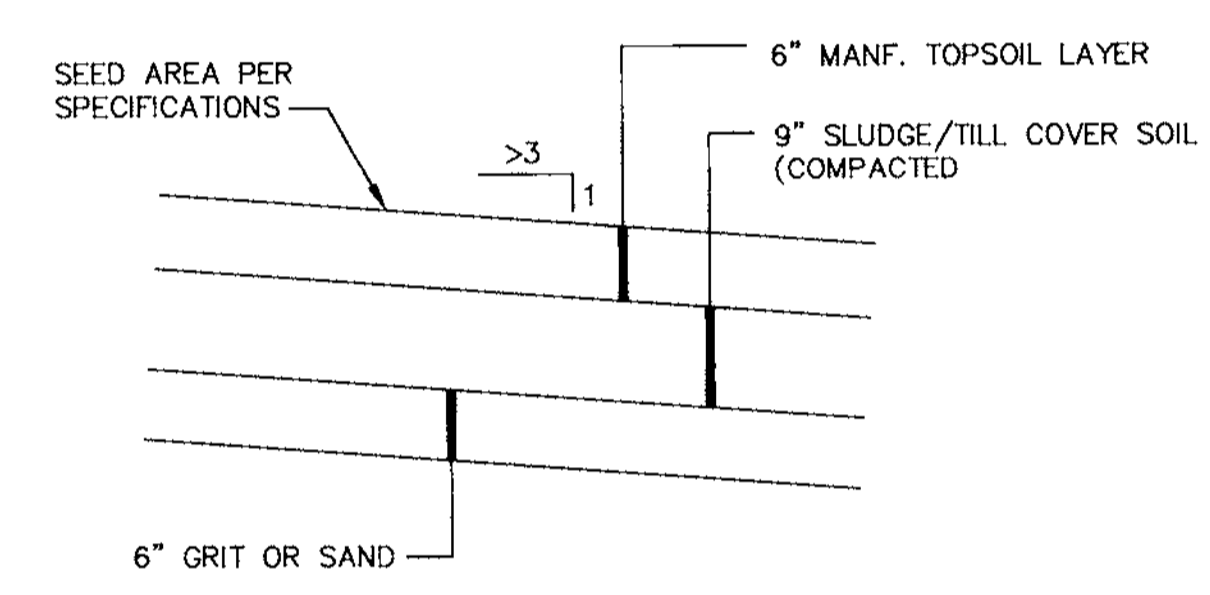
LANDFILL ACCESS ROAD (4)
N.T.S. YB-26080



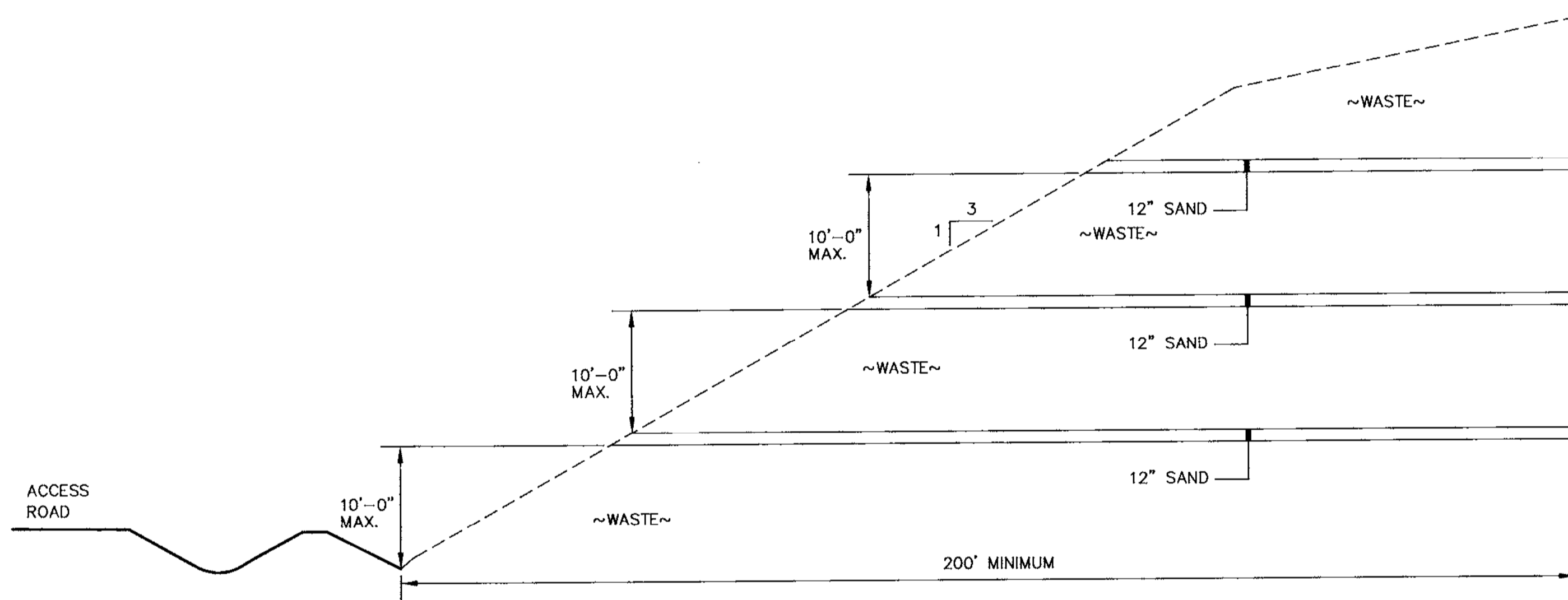
OPERATIONAL/FINAL COVER INTERFACE (5)
N.T.S. YB-26081



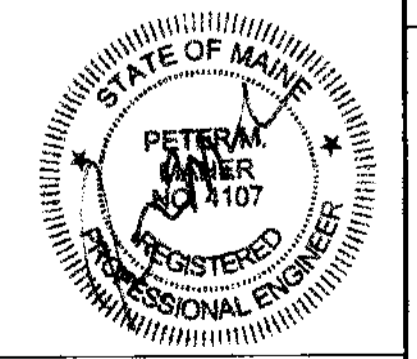
FINAL COVER (6)
N.T.S. YB-26081



INTERMEDIATE COVER (7)
N.T.S. YB-26081



SLOPE STABILIZING DRAINAGE SYSTEM (10)
N.T.S. YB-26081



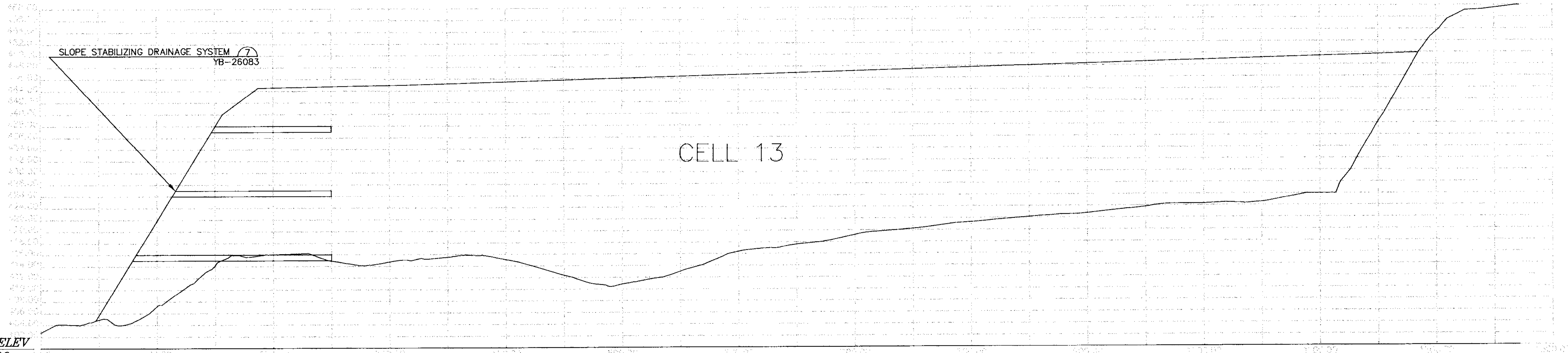
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	5/03	ASB	RECORD DRAWING	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	P	SUBMITTED TO CLIENT	GHC	-	-	-	-	-	-	-	-	-	-

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JOB NO. 02021

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE
CAD FILE: DETAILS.DWG

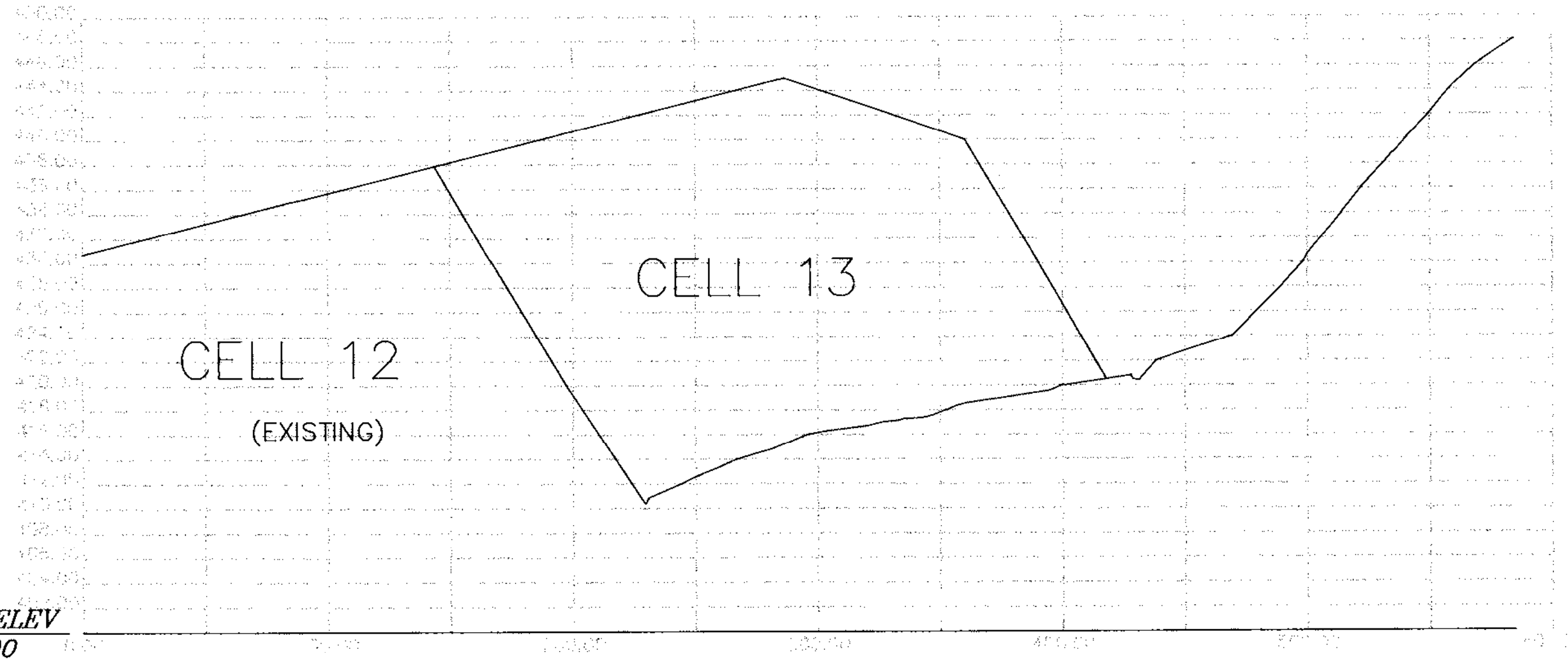
EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS
YB-26083
SHEET 2 OF 3

DATUM ELEV
400.00
GROUP
SECTION A-A'



SECTION A - A' 8
YB-26081

DATUM ELEV
400.00
GROUP
SECTION B-B'



SECTION B - B' 9
YB-26081



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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1	-				P	SUBMITTED TO CLIENT	GHC										

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Cumberland Center, ME 04021
JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
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ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS
YB-26084
JOB NO. 94768
FILE NO. 2-032-7082
LOC. NO. _____
SHEET 3 OF 3

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SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (TRUE)		NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		DRAINAGE COURSE (WITH DIRECTION)		UG	UNDERGROUND GAS MAIN	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		EDGE OF WATER		UT	UNDERGROUND TELEPHONE LINE			
	NORTH ARROW (PLAN NORTH)		CONTOUR LINES		WATER ELEVATION (GROUND OR SURFACE)		UE	UNDERGROUND ELECTRICAL LINE			
	CONTOUR LINES		SPOT ELEVATION (INVERT ELEVATION)		FENCE LINE (WOOD)		OE	OVERHEAD ELECTRICAL LINE			
	SPOT ELEVATION (INVERT ELEVATION)		EXISTING GROUND		FENCE LINE (WIRE)		OT	OVERHEAD TELEPHONE LINE			
	EXISTING GROUND		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		STONE WALL		12" SS	SANITARY SEWER			
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		PROPERTY LINE OR R.O.W.		RETAINING WALL		8" FM	FORCE MAIN			
	PROPERTY LINE OR R.O.W.		PROPERTY LINE W/ BEARING AND DISTANCE		GUARD RAIL		8" W	WATER MAIN			
	PROPERTY LINE W/ BEARING AND DISTANCE		CONSTRUCTION BASELINE		BUILDING AND STRUCTURES		12" SD	STORM DRAIN			
	CONSTRUCTION BASELINE		BOUNDARY LINE (State, County, Municipality)		SLOPE RATIO (HORIZONTAL TO VERTICAL)		8" UD	UNDERDRAIN			
	BOUNDARY LINE (State, County, Municipality)		SURVEY MONUMENT		SLOPES (WITH SLOPE RATIO)		6" PD	PERIMETER DRAIN			
	SURVEY MONUMENT		SURVEY CONTROL		EDGE OF ROAD		6" LT	LEACHATE TRANSPORT			
	SURVEY CONTROL		PROPERTY PIN, DRILL HOLE, PK, OR STAKE		CUT OR FILL LINE		6" LC	LEACHATE COLLECTION			
	PROPERTY PIN, DRILL HOLE, PK, OR STAKE		WOODS OR BRUSH LINE		BITUMINOUS PAVEMENT		6" LD	LEAK DETECTION			
	WOODS OR BRUSH LINE		INDIVIDUAL TREE		CONCRETE		6" G	GAS COLLECTION			
	INDIVIDUAL TREE		MAPPED WETLAND		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			REDUCER			
	MAPPED WETLAND		GAS VENT		TEST PIT AND NUMBER			MECHANICAL CAP OR PLUG			
	GAS VENT		GAS VENT (CAPPED)		SURFACE WATER SAMPLE LOCATION			COUPLING			
	GAS VENT (CAPPED)		CLEAN OUT STRUCTURE		GAS EXTRACTION WELL			BEND			
	CLEAN OUT STRUCTURE		CULVERT		MANHOLE			TEE			
	CULVERT		RAILROAD		CATCH BASIN			PIPE TO BE ABANDONED			
	RAILROAD		SLOPE INCLINOMETER		WATER OR GAS VALVE			RISER PIPE & INLET GRATE			
	SLOPE INCLINOMETER		VIBRATING WIRE SETTLEMENT CELL		HYDRANT			STORM GRATE			
	VIBRATING WIRE SETTLEMENT CELL		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT		AIR RELEASE VALVE			DRAINAGE INLET STRUCTURE			
	VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT		VERTICAL DISPLACEMENT MONUMENT		SURGE RELEASE VALVE			UNDERDRAIN SUMP			
	VERTICAL DISPLACEMENT MONUMENT		LIQUID SETTLEMENT GAGE		UTILITY POLE			SILTATION FENCE			
	LIQUID SETTLEMENT GAGE		LIGHT POLE		CLEARING OR CONSTRUCTION LIMIT LINE						

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW -- MDOT SPECIFICATION 703.18

STONE BEDDING -- THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

3/4" STONE -- THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

SAND BLANKET -- MDOT SPECIFICATION 703.05

COMPACTION -- DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PVC PIPE -- SDR 35

12" LEACHATE TRANSPORT PIPE -- SOLID HANCOR TITELINE

SEED AND FERTILIZER:

ARFAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED: TALL FESCUE 50%
RED FESCUE 25%
RED TOP 5%
LADINO CLOVER 3%
ANNUAL RYEGRASS 8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

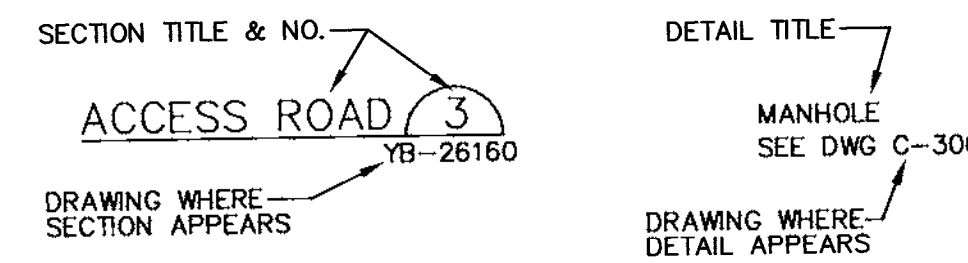
MULCH -- THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION -- MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

ACOMP	ASPHALT COATED CMP	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
ADP	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HORIZ	HORIZONTAL	PP	POWER POLE
AC	ACRE	DEG	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
AGG	AGGREGATE	DEPT	DEPARTMENT	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	DI	DUCTILE IRON	ID	INSIDE DIAMETER	PVMT	PAVEMENT
APPROX	APPROXIMATE	DIA OR #	DIAMETER	IN	INCHES	QTY	QUANTITY
ARMH	AIR RELEASE MANHOLE	DIM	DIMENSION	INVT	INVERT	RCP	REINFORCED CONCRETE PIPE
ASB	ASBESTOS	DIST	DISTANCE	INV	INVERT ELEVATION	ROW	RIGHT OF WAY
ASP	ASPHALT	DN	DOWN	INV EL	INVERT ELEVATION	RAD	RADIUS
AUTO	AUTOMATIC	DR	DRAIN	LB	POUND	REQD	REQUIRED
AUX	AUXILIARY	DWG	DRAWING	LC	LEACHATE COLLECTION	RT	RIGHT
AVE	AVENUE	EA	EACH	LD	LEAK DETECTION	ROUTE	ROUTE
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LF	LINEAR FEET	RTE	ROUTE
		ELEC	ELECTRIC	LOC	LOCATION	S	SLOPE
		EL	ELEVATION	LOC	LOCATION	SCH	SCHEDULE
		ELB	ELBOW	LT	LEACHATE TRANSPORT	SF	SQUARE FEET
BCOMP	BITUMINOUS COATED CMP	EOP	EDGE OF PAVEMENT	MH	MANHOLE	SHT	SHEET
BM	BENCH MARK	EQUIP	EQUIPMENT	MJ	MECHANICAL JOINT	SMH	SANITARY MANHOLE
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL	ST	STREET
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM	STA	STATION
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE	SY	SQUARE YARD
BV	BALL VALVE	FG	FINISH GRADE	MIN	MINIMUM	TAN	TANGENT
		FBGL	FIBERGLASS	MON	MISCELLANEOUS MONUMENT	TDH	TOTAL DYNAMIC HEAD
CB	CATCH BASIN	FDN	FOUNDATION			TEMP	TEMPORARY
CEM	CENTER	FLG	FLANGE	NTC	NOT IN THIS CONTRACT	TRP	TYPICAL
CEM LIN	CEMENT LINED	FLO	FLOOR	NTS	NOT TO SCALE	UD	UNDERDRAIN
CMP	CORRUGATED METAL PIPE	FLR	FLOOR	N/F	NOW OR FORMERLY	V	VOLTS
CD	CLEAN OUT	FT	FEET	NO OR #	NUMBER	VA	VALVE ANCHORING TEE
CF	CUBIC FEET	FT OR	FOOTING	OC	ON CENTER	VERT	VERTICAL
CFS	CUBIC FEET PER SECOND	FTG	FOOTING	OD	OUTSIDE DIAMETER		
CI	CAST IRON	GA	GAUGE	PC	POINT OF CURVE	WG	WATER GATE
CL	CLASS	GAL	GALLON	PD	PERIMETER DRAIN	W/	WITH
CONC	CONCRETE	GALV	GALVANIZED	PI	POINT OF INTERSECTION	W/O	WITHOUT
CONSTR	CONSTRUCTION	GPM	GALLONS PER MINUTE	PIV	POST INDICATOR VALVE	YD	YARD
CONTR	CONTRACTOR			PT	POINT OF TANGENT		
CS	CURB STOP						
CTR	CENTER						
CU	COPPER						
CY	CUBIC YARD						

VIEW MARKERS & IDENTIFICATION



REV	NO	DRAWING NO	REFERENCE DRAWING TITLE	CODE	DATE	REV	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV	REVISION	BY	CHKD	APPVD	JOB	
6	-																			
5	-																			
4	-																			
3	-																			
2	-				7/12/04	C	ISSUED FOR CONSTRUCTION													
1	-				6/15/04	P	SUBMITTED TO CLIENT	GHC												

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

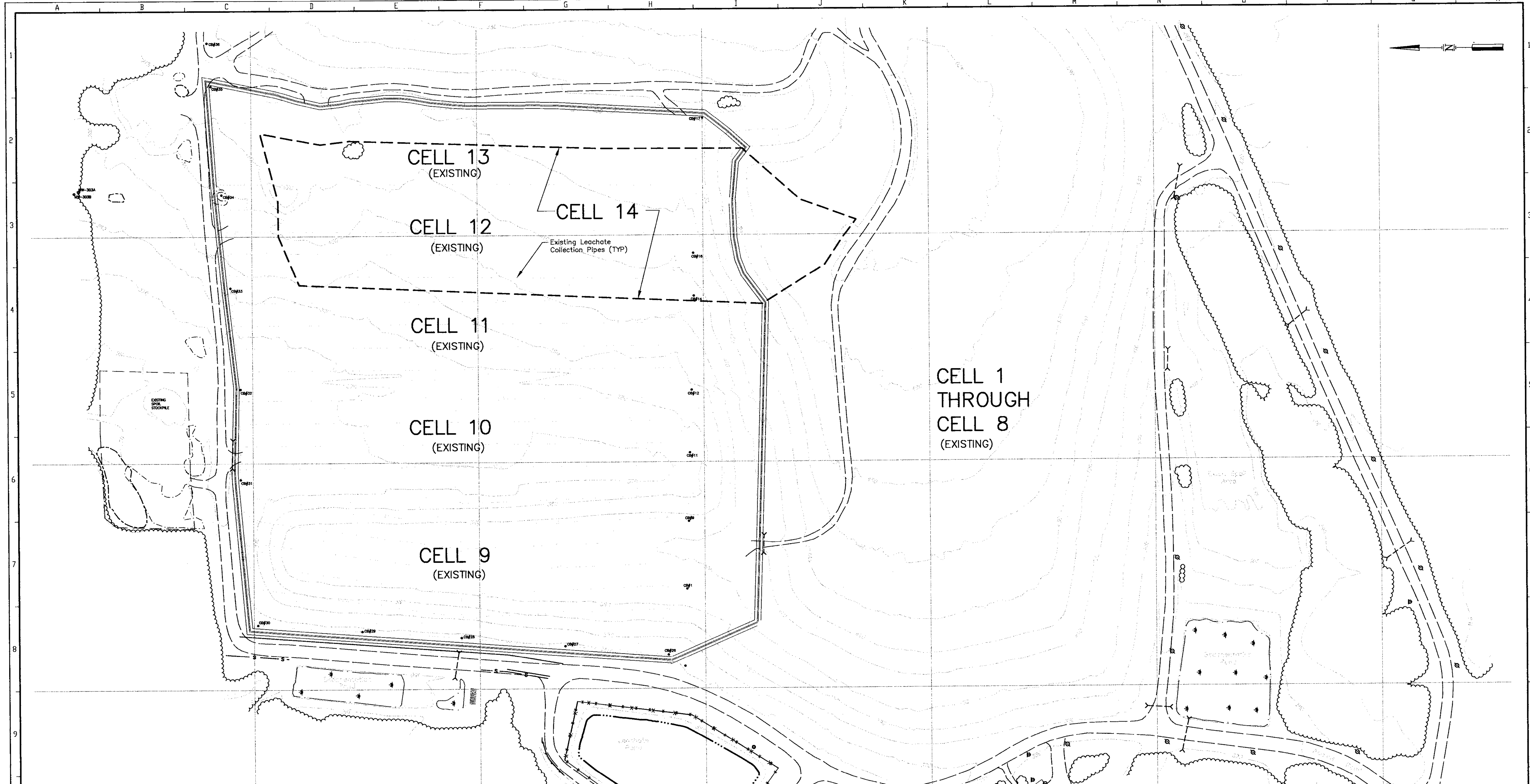
EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO. _____

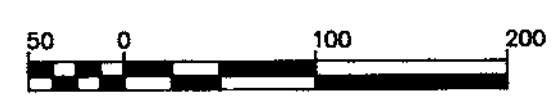
YB-26160

CAD FILE: SYMSHT.DWG

JOB NO. 04011.04



- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE. PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
 5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 13. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



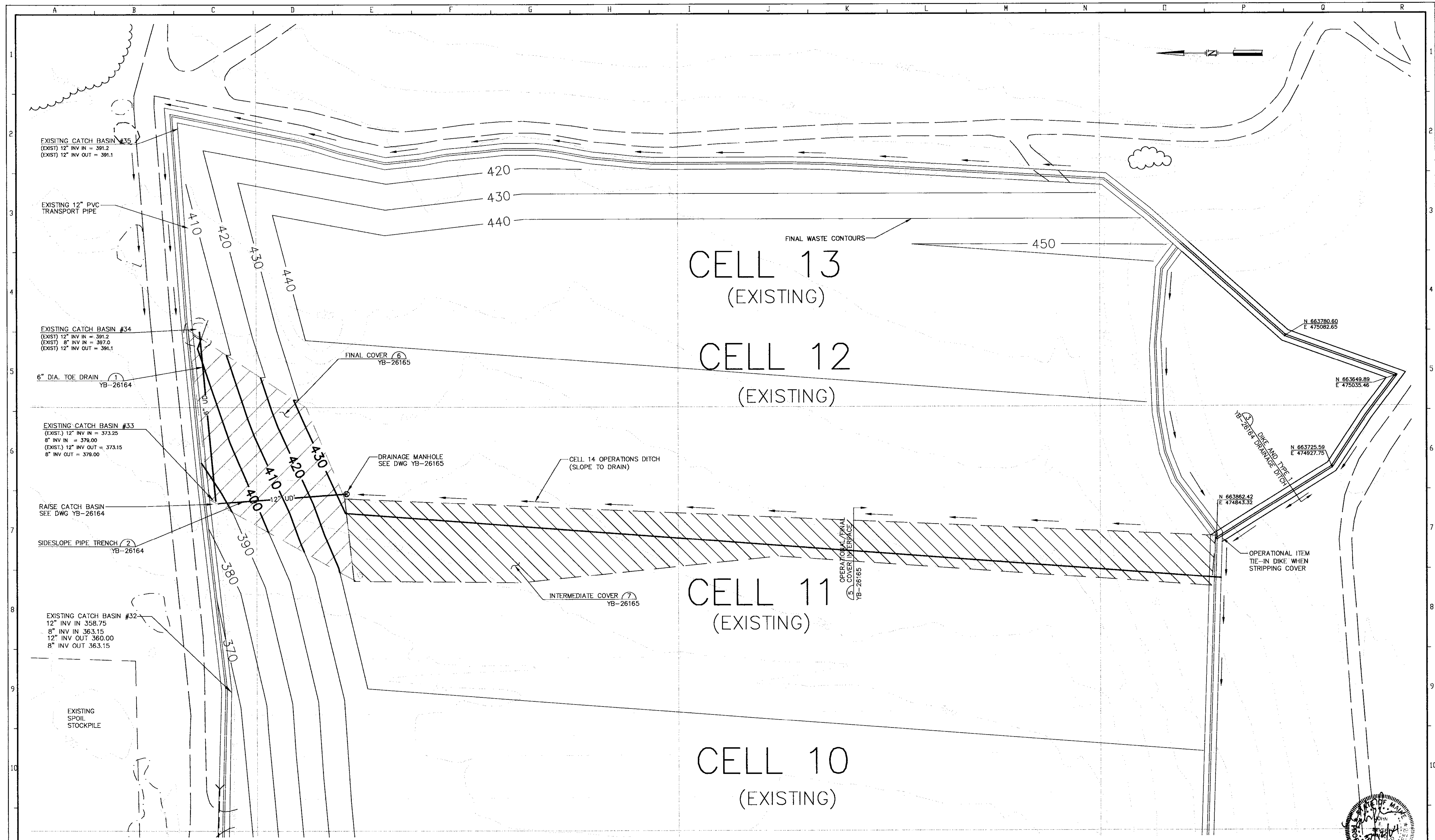
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2			C	7/12/04									ISSUED FOR CONSTRUCTION

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 04011.04

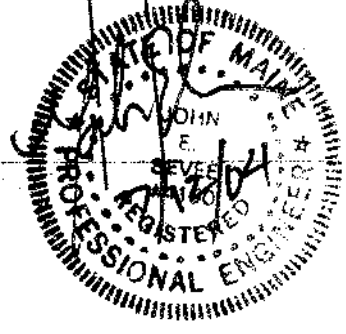
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: CELL14-EXCON.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
EXISTING CONDITIONS PLAN
 JOB NO. 46226
 FILE NO. 2-992-7082
 LIC. NO. _____
YB-26161

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CELL 14 OPERATION NOTES (PRIOR TO FILLING)
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 6.



REV.	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION
6									
5									
4									
3									
2	7/12/04								ISSUED FOR CONSTRUCTION
1	6/15/04								SUBMITTED TO CLIENT

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

DRN	PAF	6/14/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE:		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

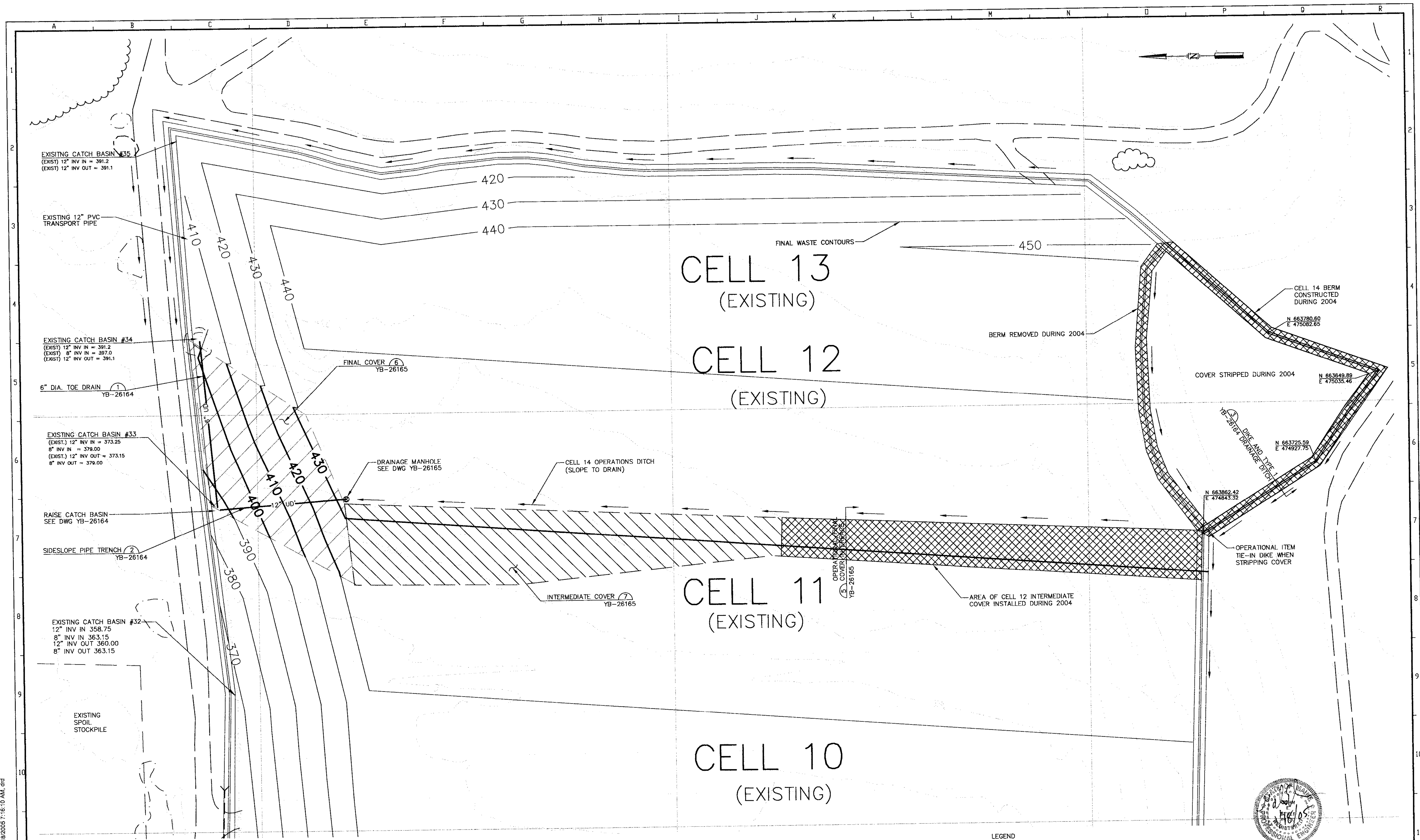
CAD FILE: CELL14-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SITE DEVELOPMENT PLAN

JOB NO. 46226
 FILE NO. 2-092-7082
 LOC. NO.

YB-26162

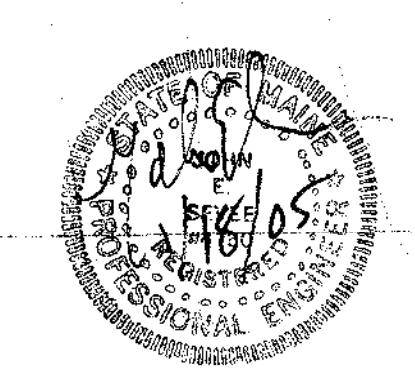
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CELL 14 OPERATION NOTES (PRIOR TO FILLING)
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 6.



LEGEND
 2004 CONSTRUCTION ACTIVITIES



REV.	DATE	DESCRIPTION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1/18/05	C	ADD 2004 CONSTRUCTION ACTIVITIES														
2	7/12/04	C	ISSUED FOR CONSTRUCTION														
1	6/15/04	P	SUBMITTED TO CLIENT														

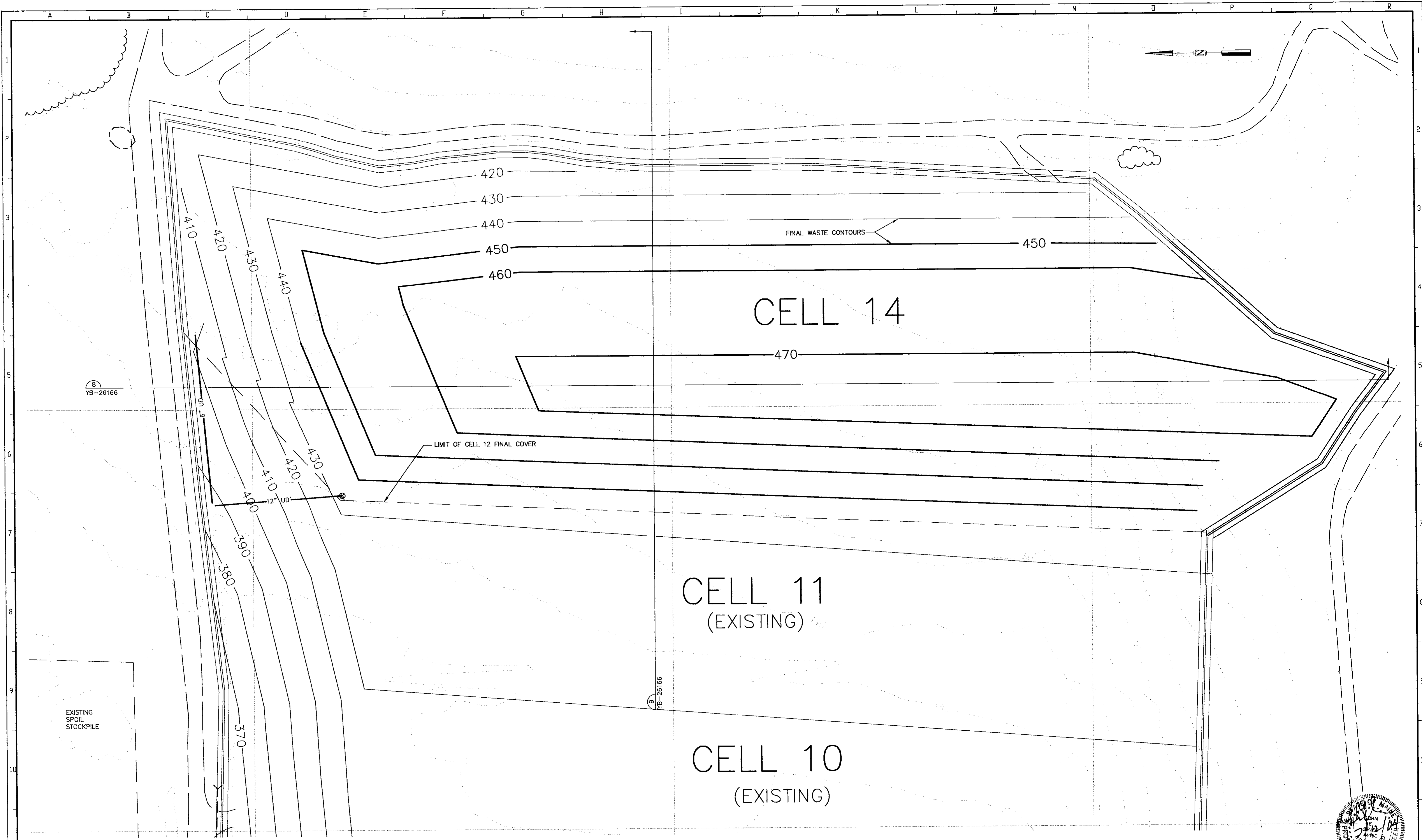
SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 04011.04

DIRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: CELL14-OPERGRADING.DWG

EAST OPERATION
 DOLBY III LANDFILL
 CELL 14 CONSTRUCTION
 CELL 12 CLOSURE
 2004 CONSTRUCTION ACTIVITIES
 JOB NO. 46226
 FILE NO. 2-092-7082
 L.D.C. NO. **YB-26162A**

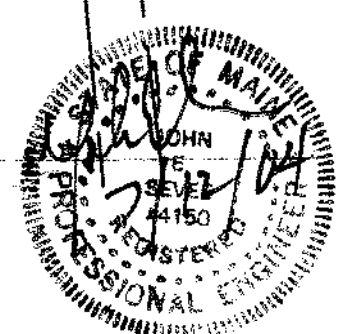
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8
YB-26166

9
YB-26166

EXISTING SPOIL STOCKPILE



REV.	DRAWING NO.	REFERENCE DRAWING TITLE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	7/12/04	C	ISSUED FOR CONSTRUCTION												
1	-	-	6/15/04	P	SUBMITTED TO CLIENT												

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

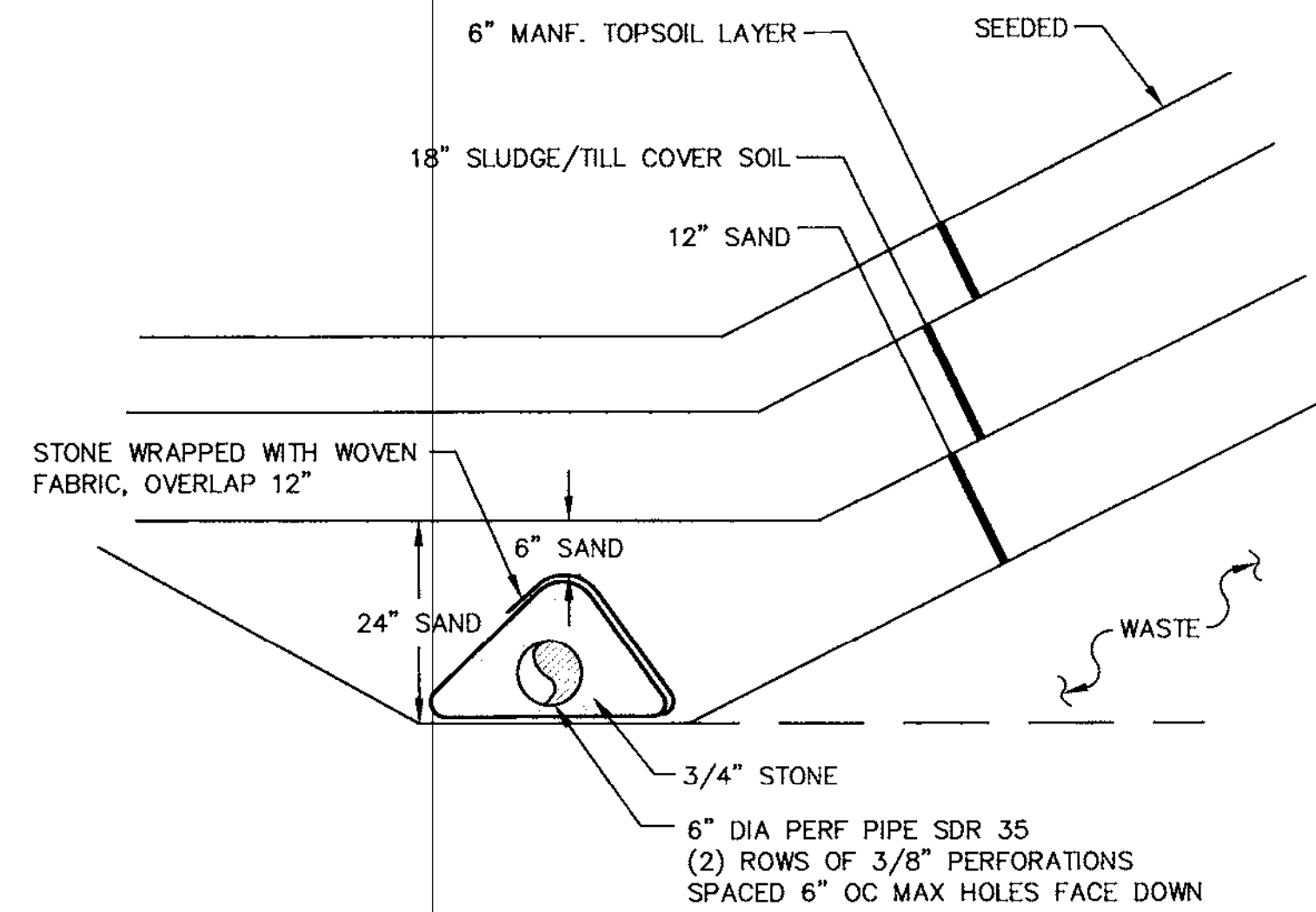
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL14-OPERGRADING.DWG

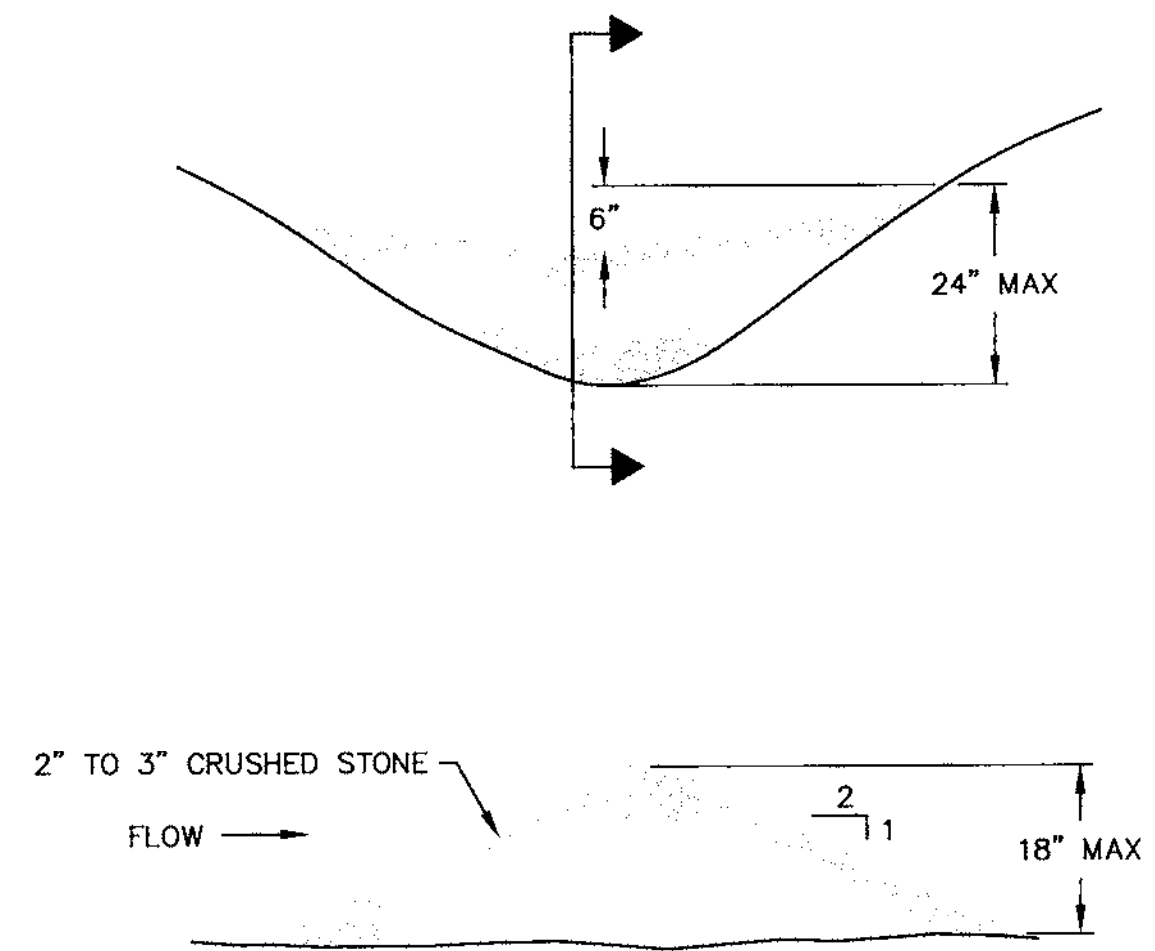
EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
CELL 14-OPERATIONAL GRADING PLAN
JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO. **YB-26163**

JOB NO. 04011.04

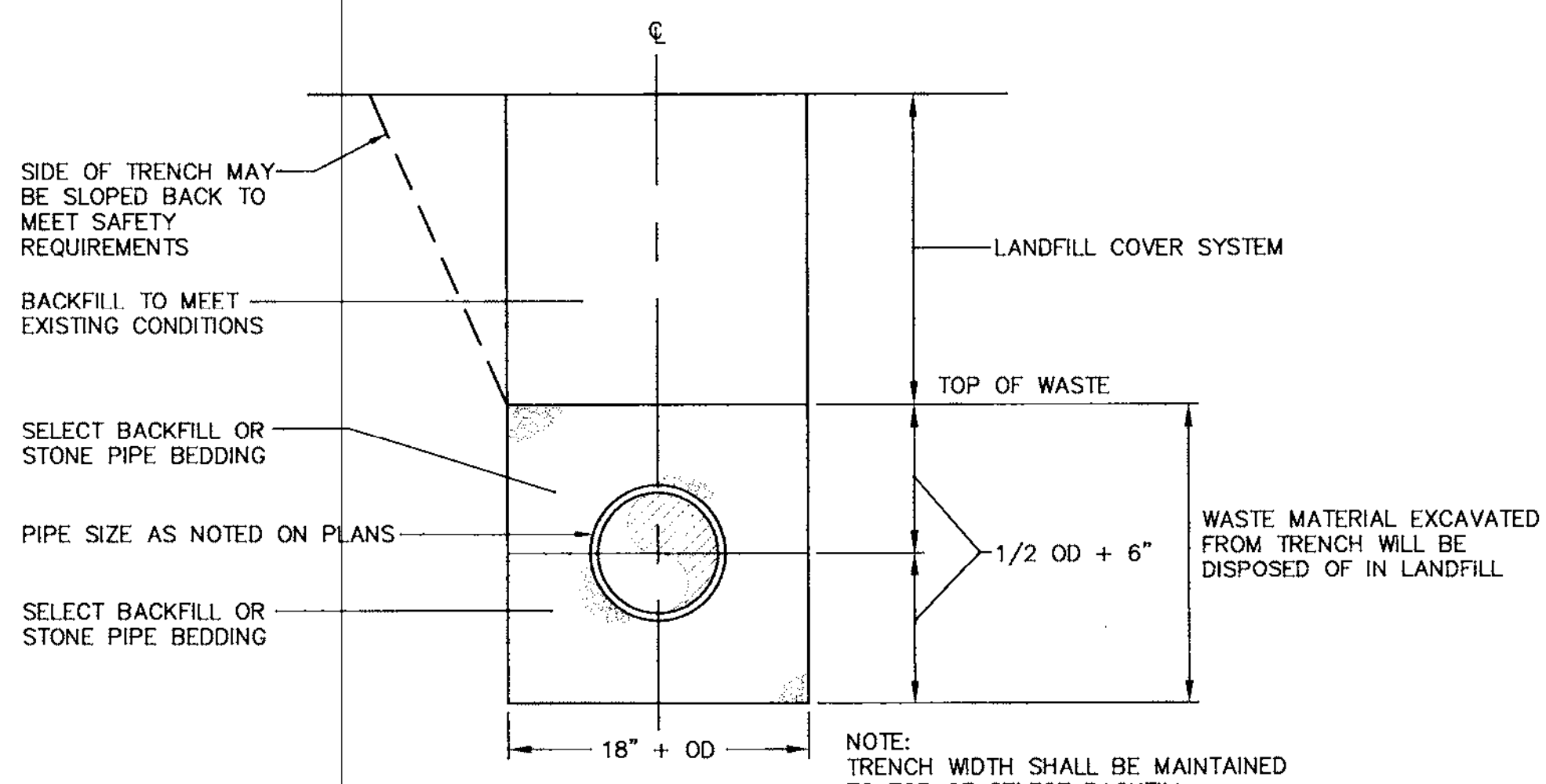
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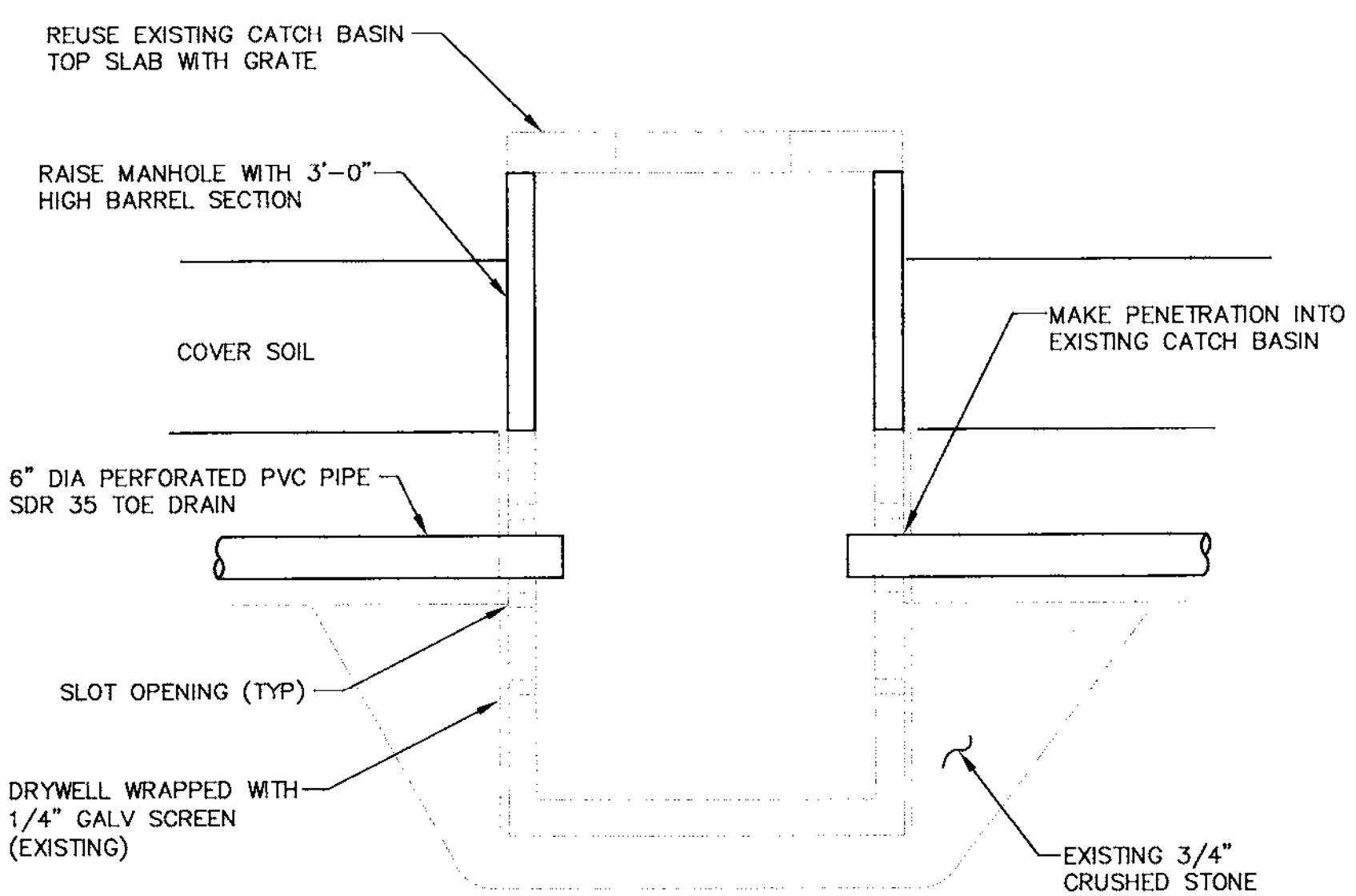
TOE DRAIN 1
NTS YB-26162



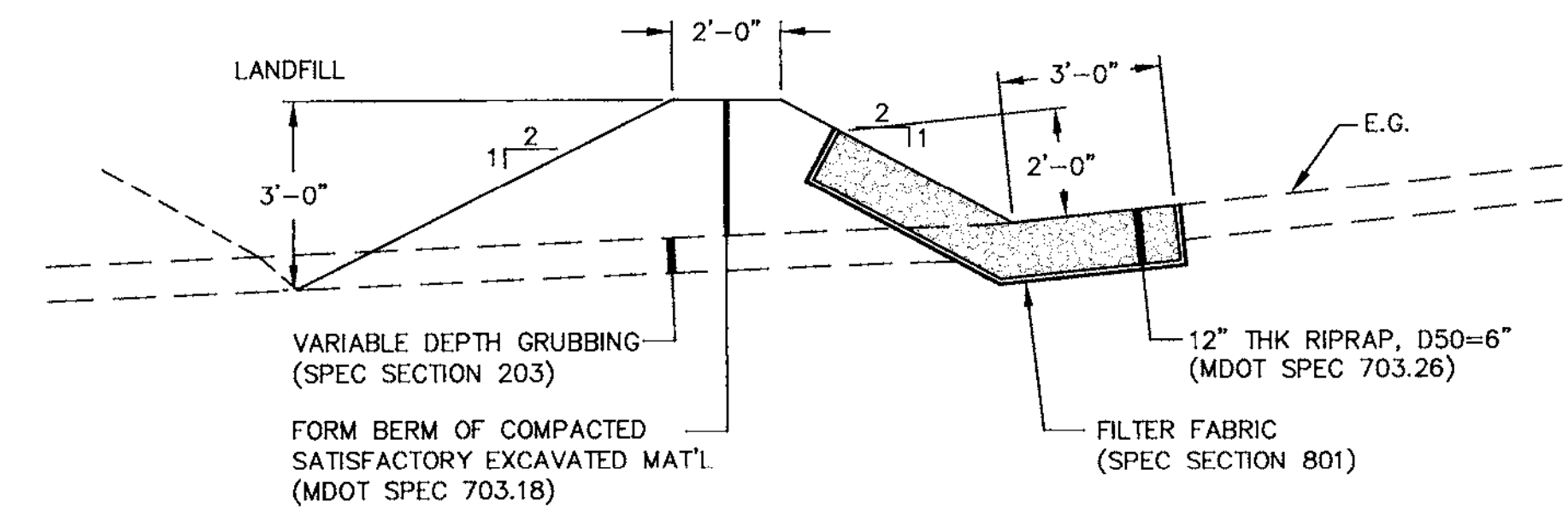
**SECTION
STONE CHECK DAM**
NTS



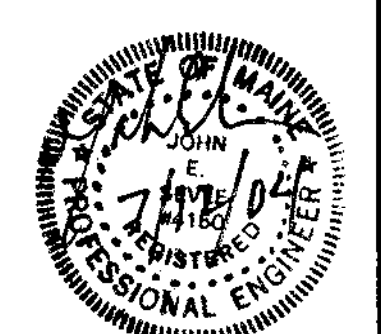
SIDESLOPE PIPE TRENCH 2
NTS YB-26162



RAISE CATCH BASIN
NTS (EXISTING)



DIKE AND TYPE 1 DRAINAGE DITCH 3
NTS YB-26162



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NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	7/12/04	C	ISSUED FOR CONSTRUCTION	GHC	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	6/15/04	P	SUBMITTED TO CLIENT	GHC	-	-	-	-	-	-	-	-	-	-	-

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD	-	-
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE: NONE		

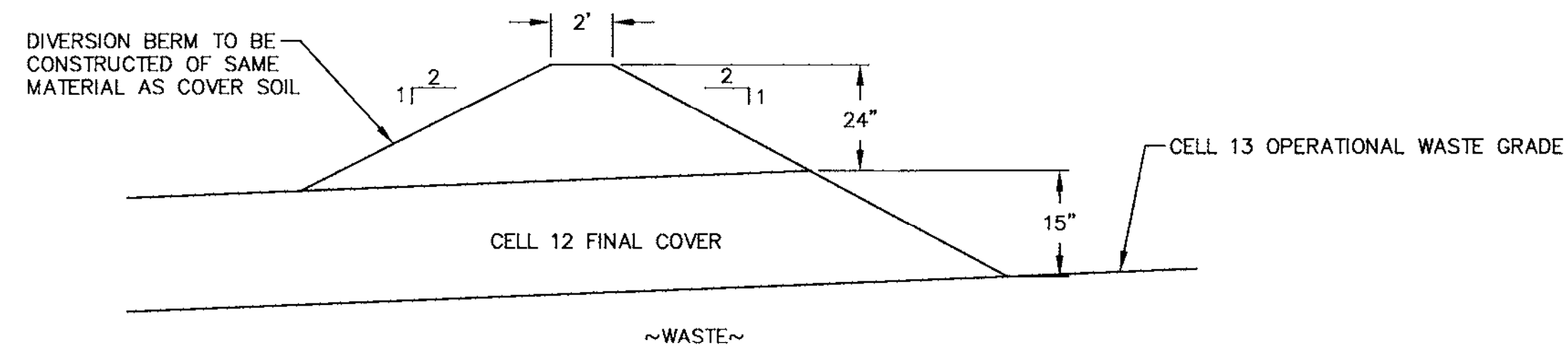
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

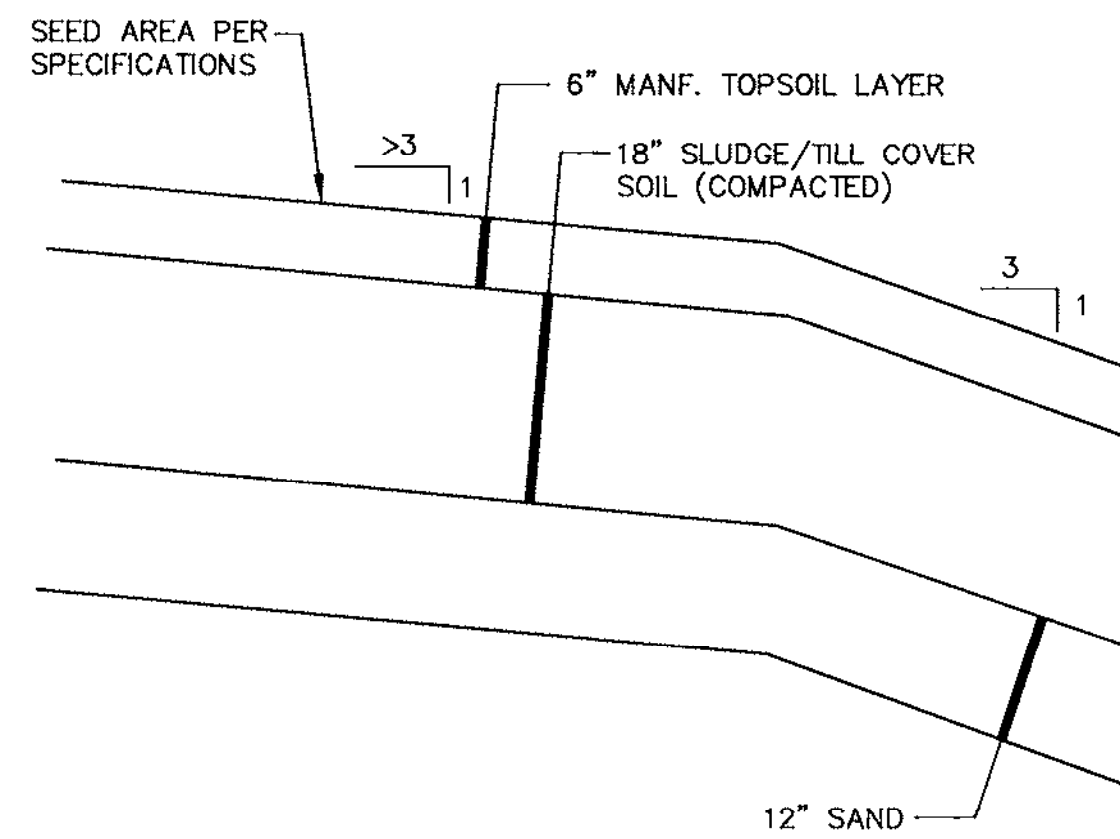
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FILE NO. 2-092-7082
LIC. NO.

YB-26164
SHEET 1 OF 3

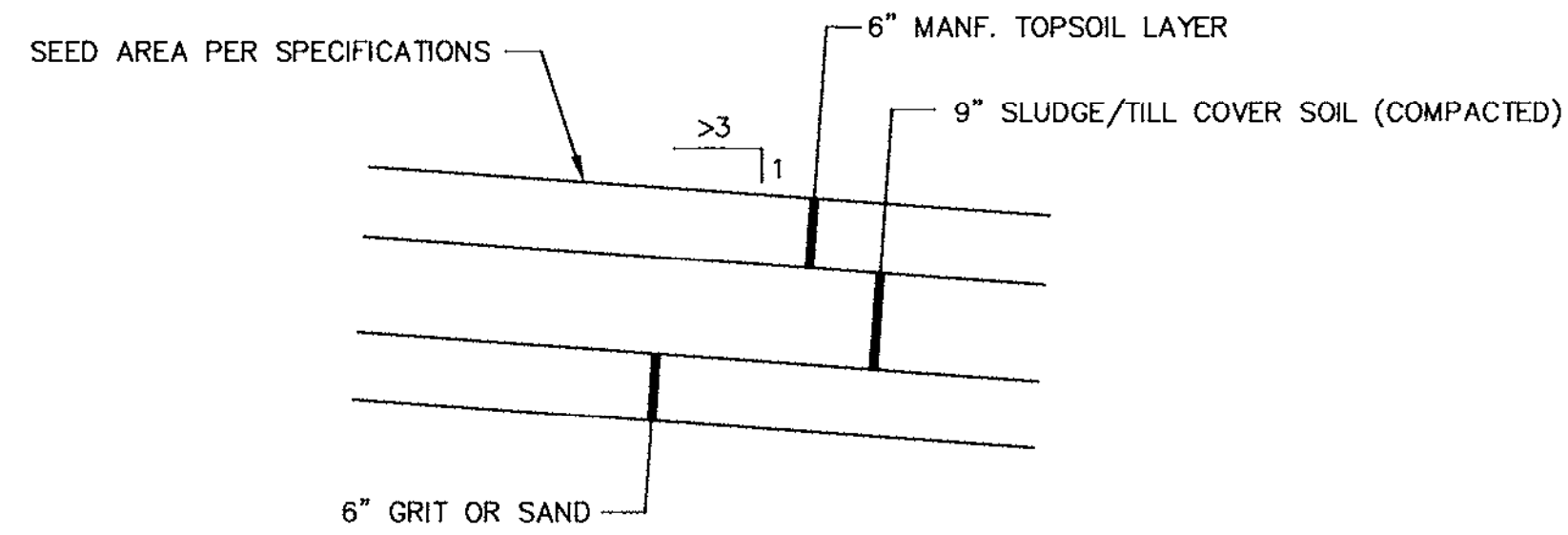
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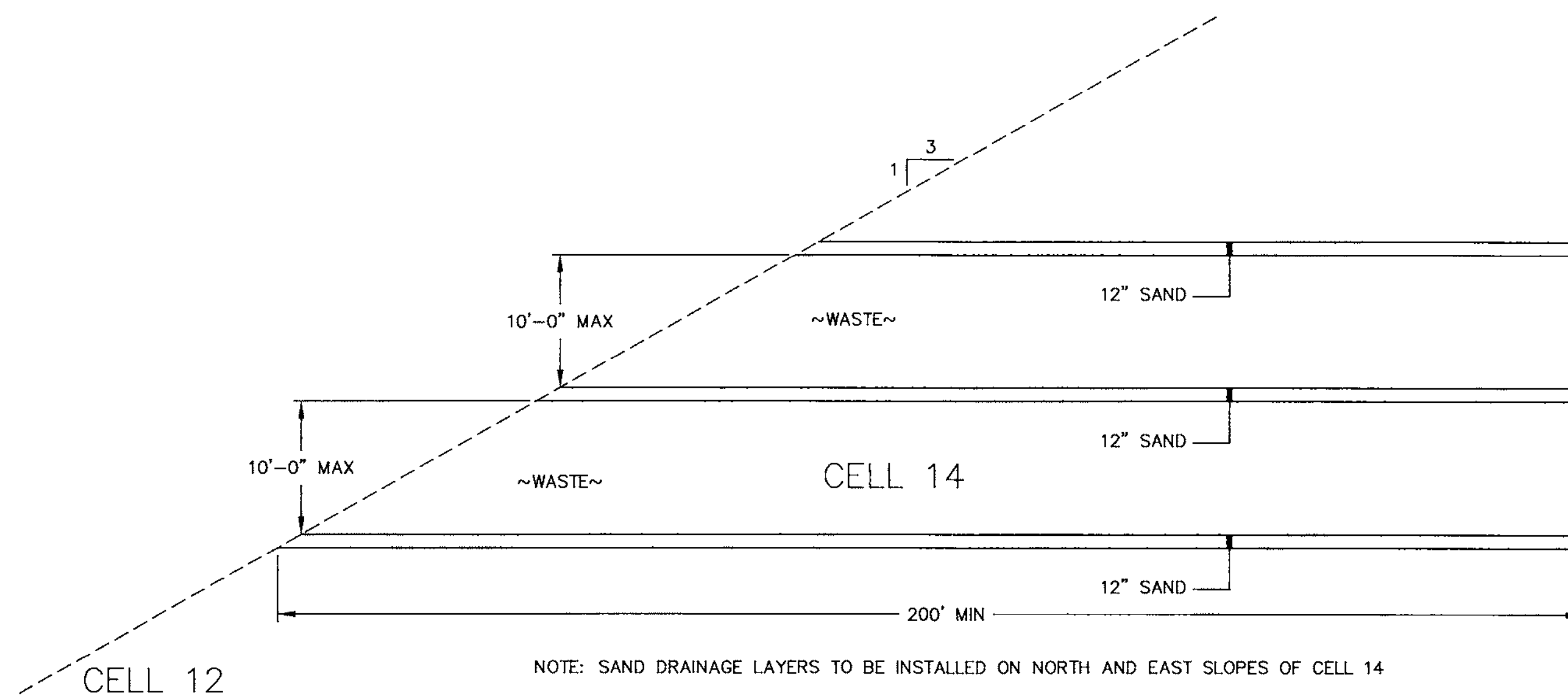
OPERATIONAL/FINAL COVER INTERFACE 5
NTS YB-26162



FINAL COVER 6
NTS YB-26162

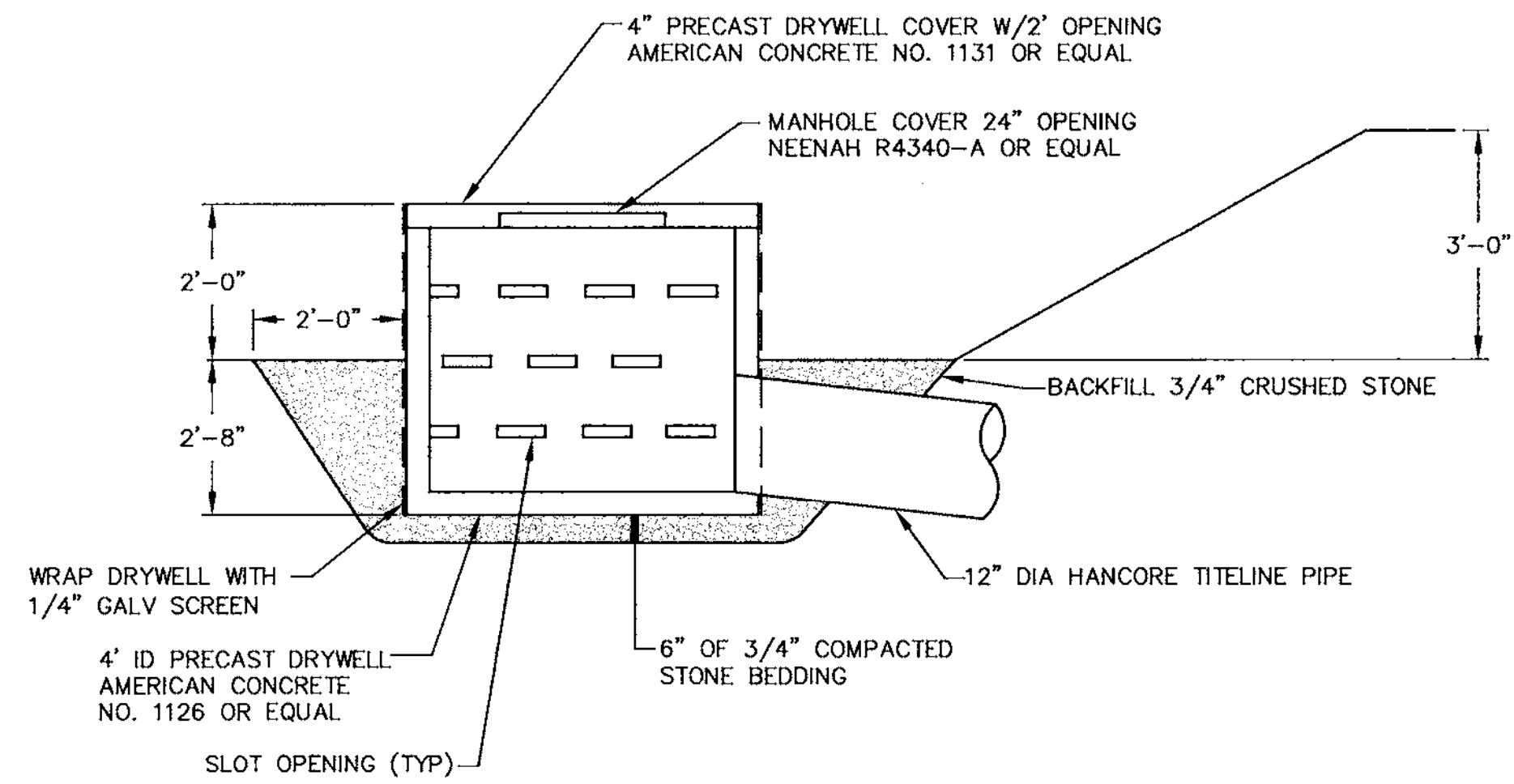


INTERMEDIATE COVER 7
NTS YB-26162

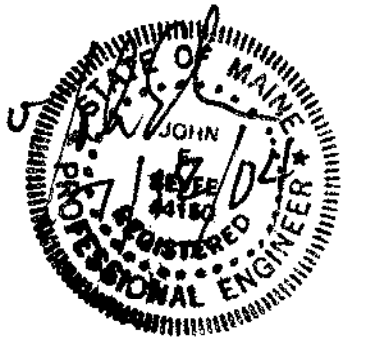


NOTE: SAND DRAINAGE LAYERS TO BE INSTALLED ON NORTH AND EAST SLOPES OF CELL 14

SLOPE STABILIZING DRAINAGE SYSTEM 10
NTS YB-26166



DRAINAGE MANHOLE
NTS



REV.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6																		
5																		
4																		
3																		
2				7/12/04	C	ISSUED FOR CONSTRUCTION												
1				6/15/04	P	SUBMITTED TO CLIENT	GHC											

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

ISSUE CODE:
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE - NONE

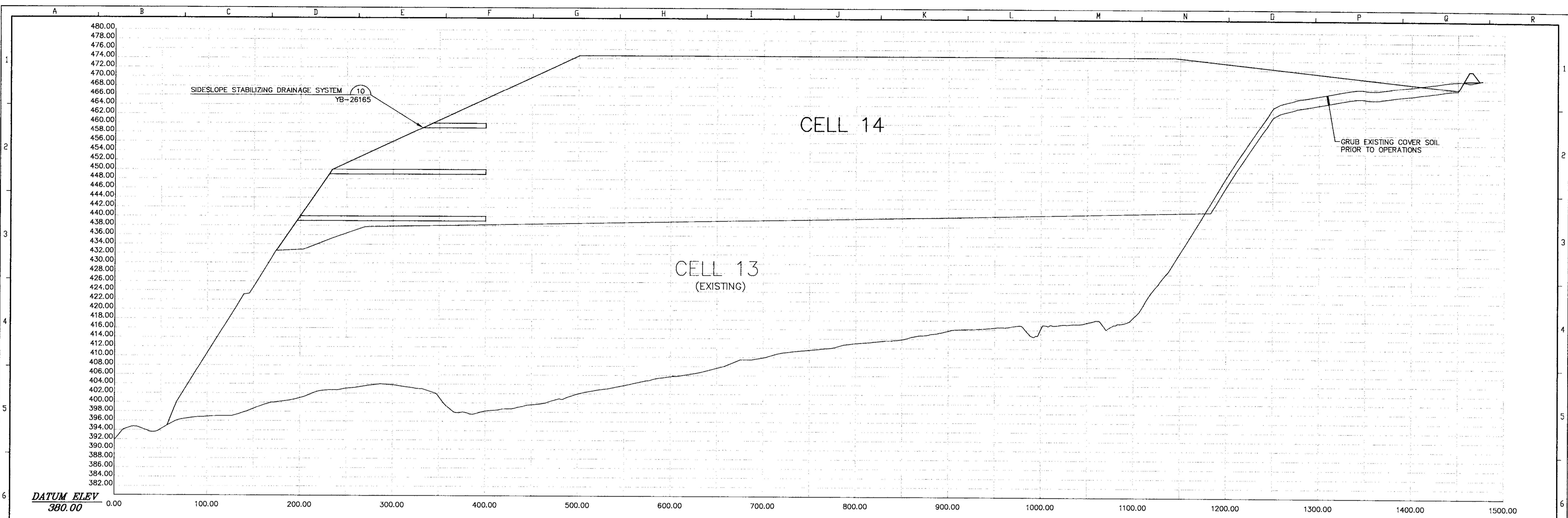
EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-092-7082
LIC. NO. _____

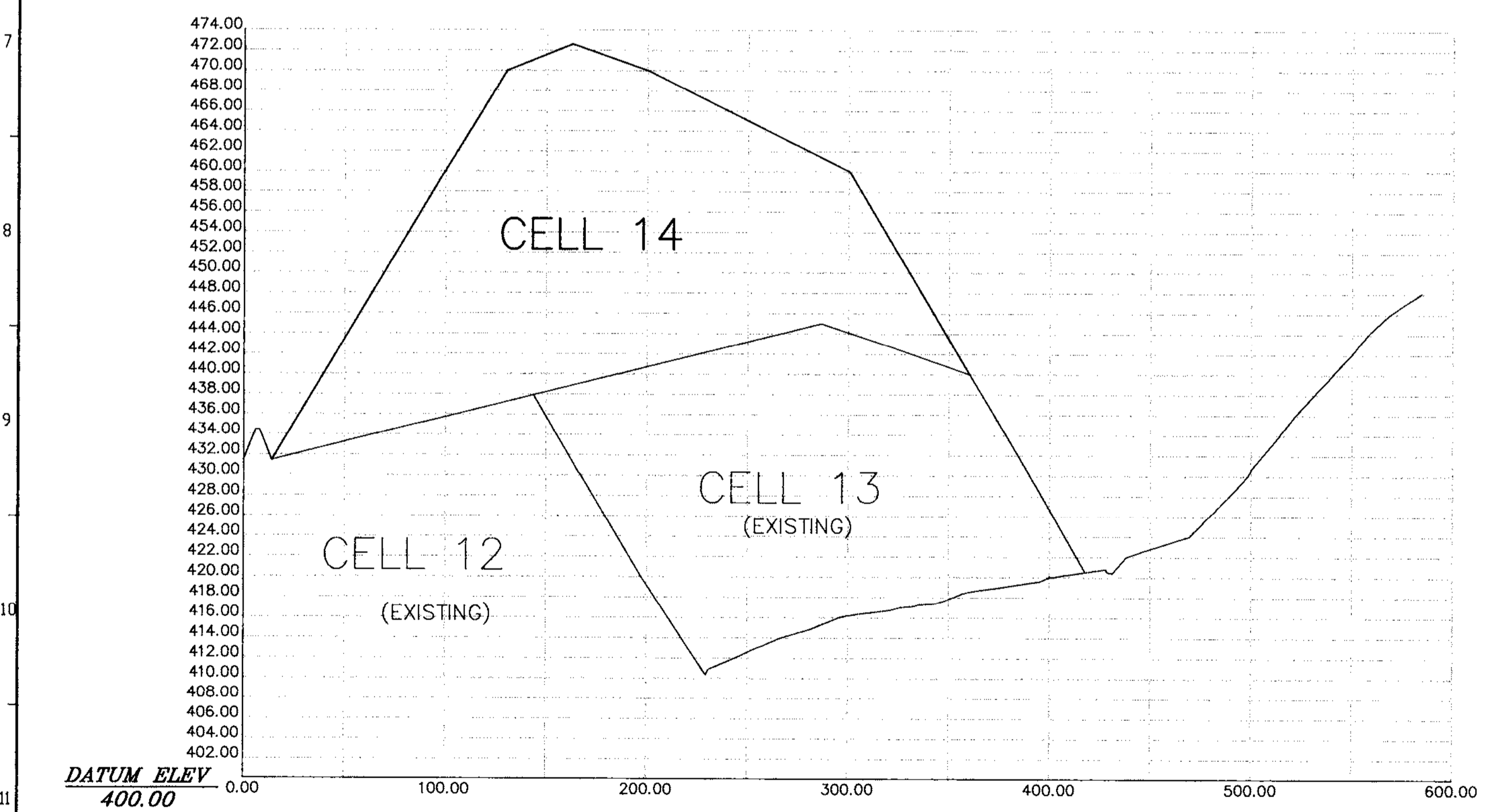
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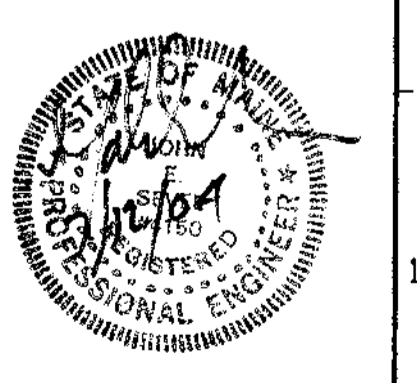
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SECTION 8
YB-26163



SECTION 9
YB-26163



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	7/12/04	C	-	ISSUED FOR CONSTRUCTION	GHC	-	-	-	-	-	-	-	-	-	-	-
1	-	-	6/15/04	P	-	SUBMITTED TO CLIENT	-	-	-	-	-	-	-	-	-	-	-	-

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road, P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

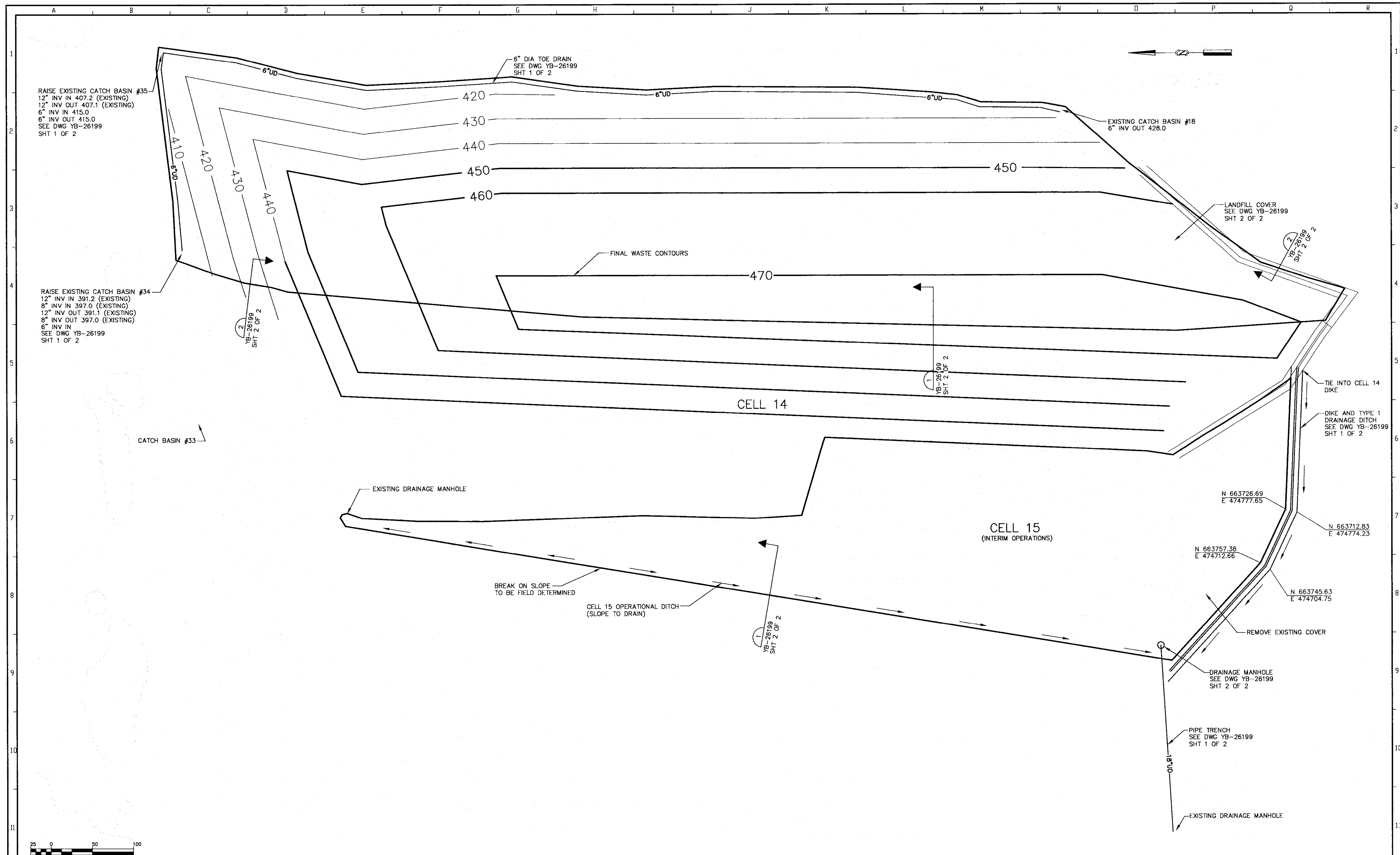
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-092-7082
LIC. NO. _____

YB-26166
SHEET 3 OF 3



RAISE EXISTING CATCH BASIN #35
 12" INV IN 407.2 (EXISTING)
 12" INV OUT 407.1 (EXISTING)
 6" INV IN 415.0
 6" INV OUT 415.0
 SEE DWG YB-26199
 SHT 1 OF 2

RAISE EXISTING CATCH BASIN #34
 12" INV IN 391.2 (EXISTING)
 8" INV IN 397.0 (EXISTING)
 12" INV OUT 391.1 (EXISTING)
 8" INV OUT 397.0 (EXISTING)
 6" INV IN
 SEE DWG YB-26199
 SHT 1 OF 2

2
 YB-26199
 SHT 2 OF 2

6" DIA TOE DRAIN
 SEE DWG YB-26199
 SHT 1 OF 2

EXISTING CATCH BASIN #18
 6" INV OUT 428.0

LANDFILL COVER
 SEE DWG YB-26199
 SHT 2 OF 2

2
 YB-26199
 SHT 2 OF 2

1
 YB-26199
 SHT 2 OF 2

TIE INTO CELL 14
 DIKE

DIKE AND TYPE 1
 DRAINAGE DITCH
 SEE DWG YB-26199
 SHT 1 OF 2

N 663726.69
 E 474777.65

N 663712.83
 E 474774.23

N 663757.38
 E 474712.66

N 663745.63
 E 474704.75

REMOVE EXISTING COVER

DRAINAGE MANHOLE
 SEE DWG YB-26199
 SHT 2 OF 2

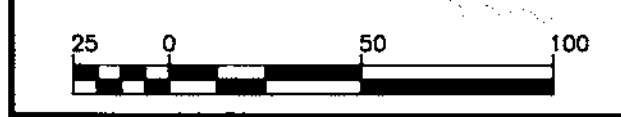
PIPE TRENCH
 SEE DWG YB-26199
 SHT 1 OF 2

EXISTING DRAINAGE MANHOLE

BREAK ON SLOPE
 TO BE FIELD DETERMINED

CELL 15 OPERATIONAL DITCH
 (SLOPE TO DRAIN)

1
 YB-26199
 SHT 2 OF 2



REV.	DATE	DESCRIPTION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	2/12/07	UPDATED PER MEDEP COMMENTS												
2	10/6/06	SUBMITTED TO MEDEP												
1	8/24/06	SUBMITTED TO CLIENT												

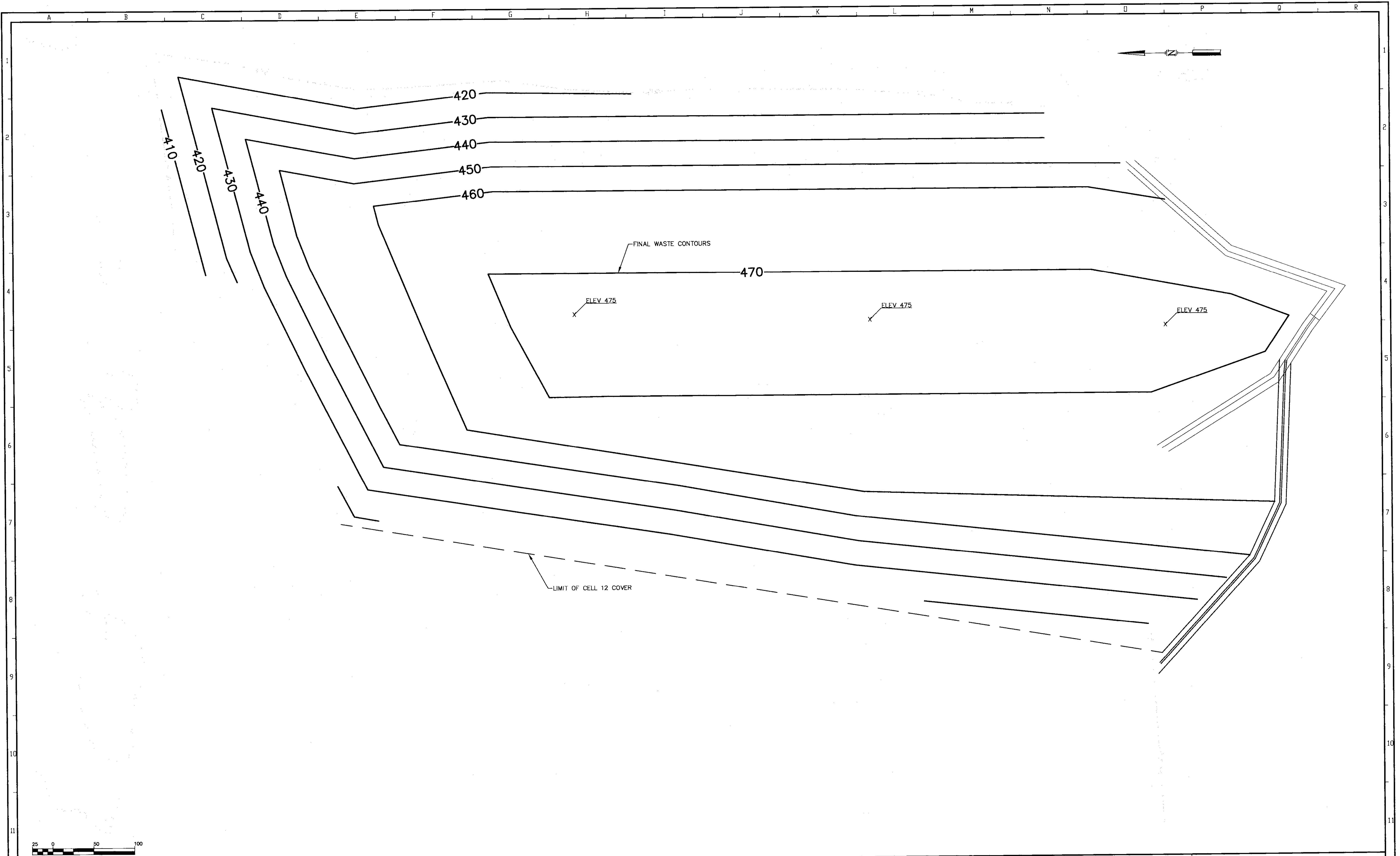
SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 83A
 Cumberland Center, ME 04021
 JOB NO. 06116

DRN	PAF	7/18/06
CHKD	GHC	8/8/06
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	AS SHOWN	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: YB-26197 B0


EAST OPERATION
DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
SITE DEVELOPMENT PLAN
 JOB NO. _____
 FILE NO. _____
 LDC NO. _____
YB-26197

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REF.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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4	-																	
3	-			2/12/07	P	UPDATED PER MEDEP COMMENTS												
2	-			10/16/06	P	SUBMITTED TO MEDEP			GHC									
1	-			8/24/06	P	SUBMITTED TO CLIENT			RBC									

SME

Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 06116

DIRN PAF 7/18/06
 CHKD GHC 8/6/06
 APPVD

ISSUE CODE
 P - Preliminary
 B - Bids
 C - Construction
 ASB - As Built
 SCALE NINE

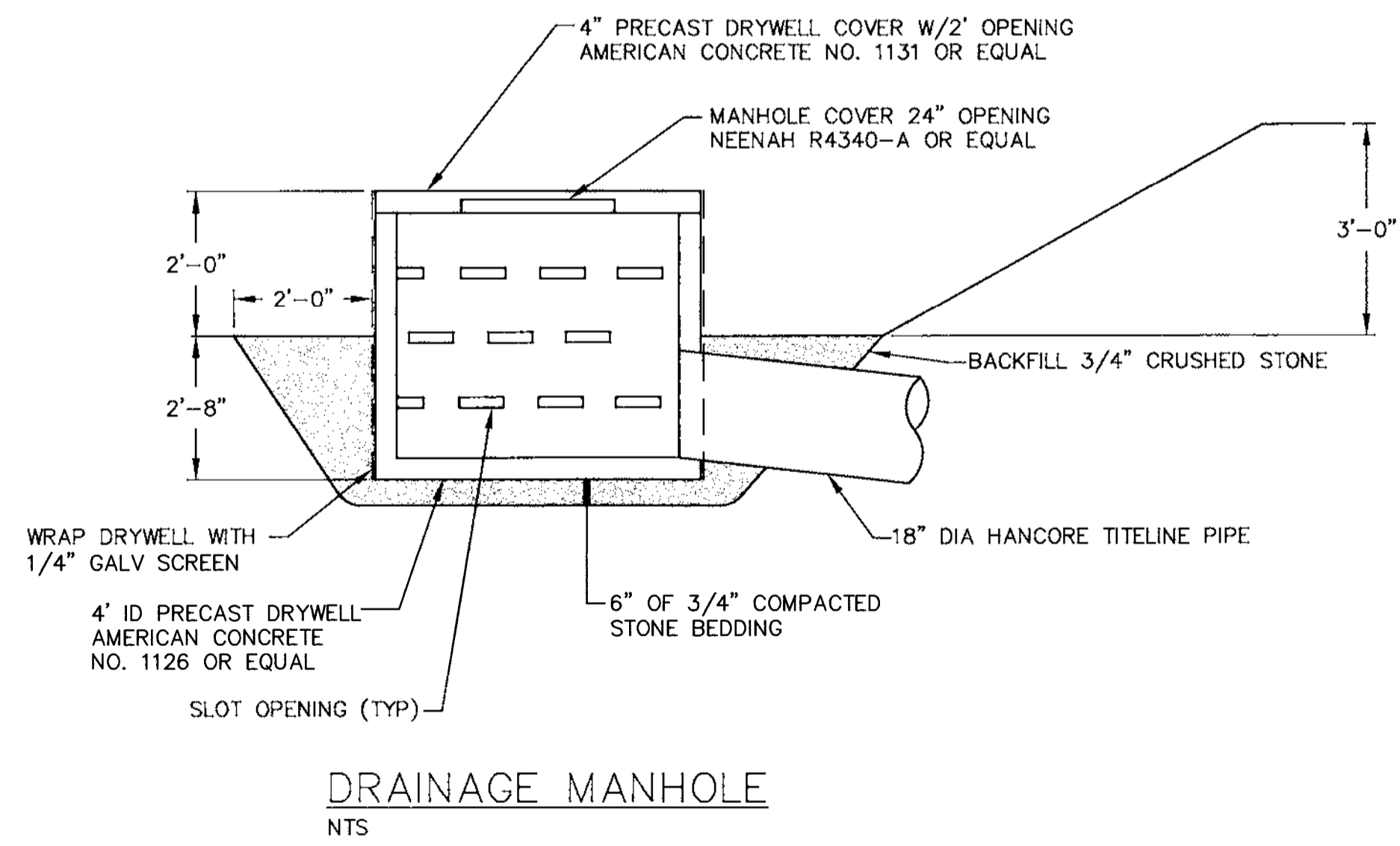
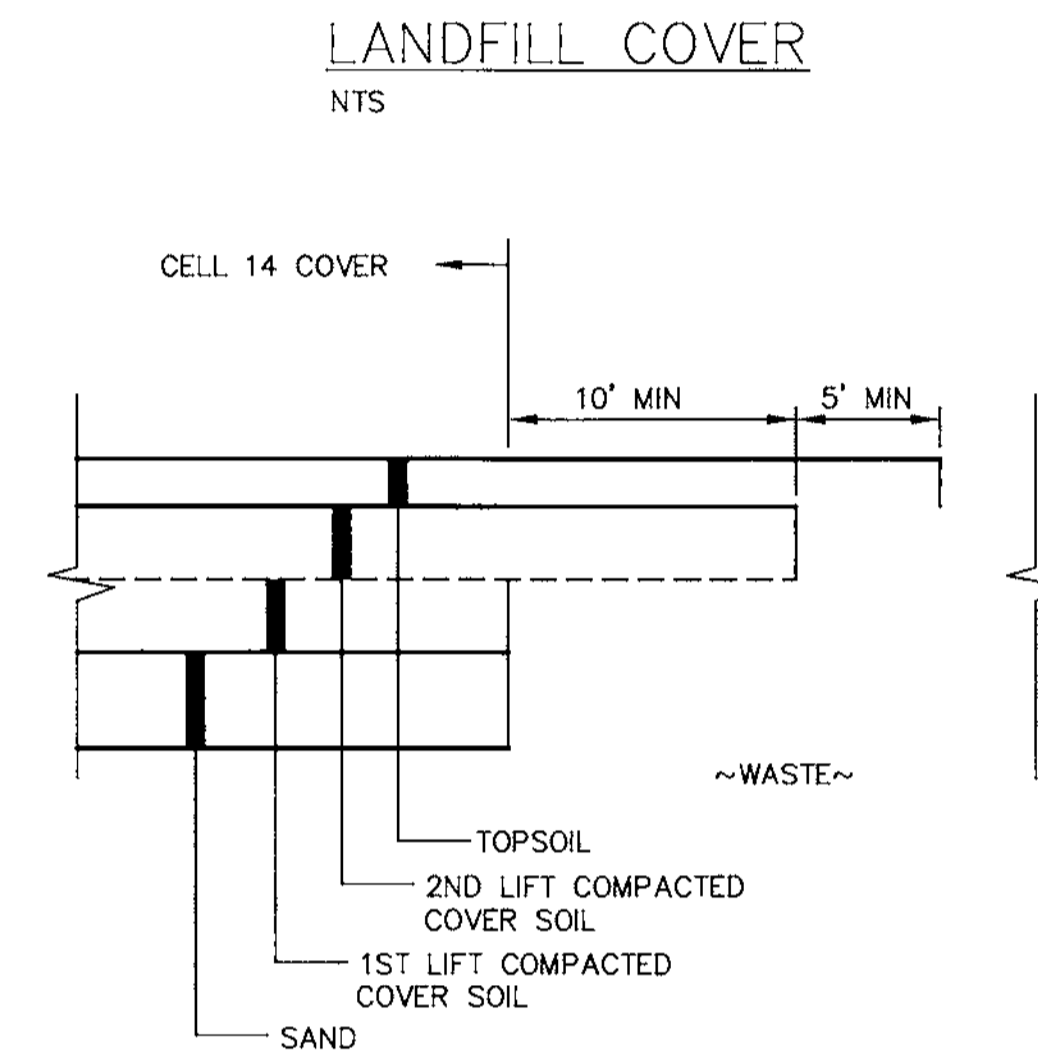
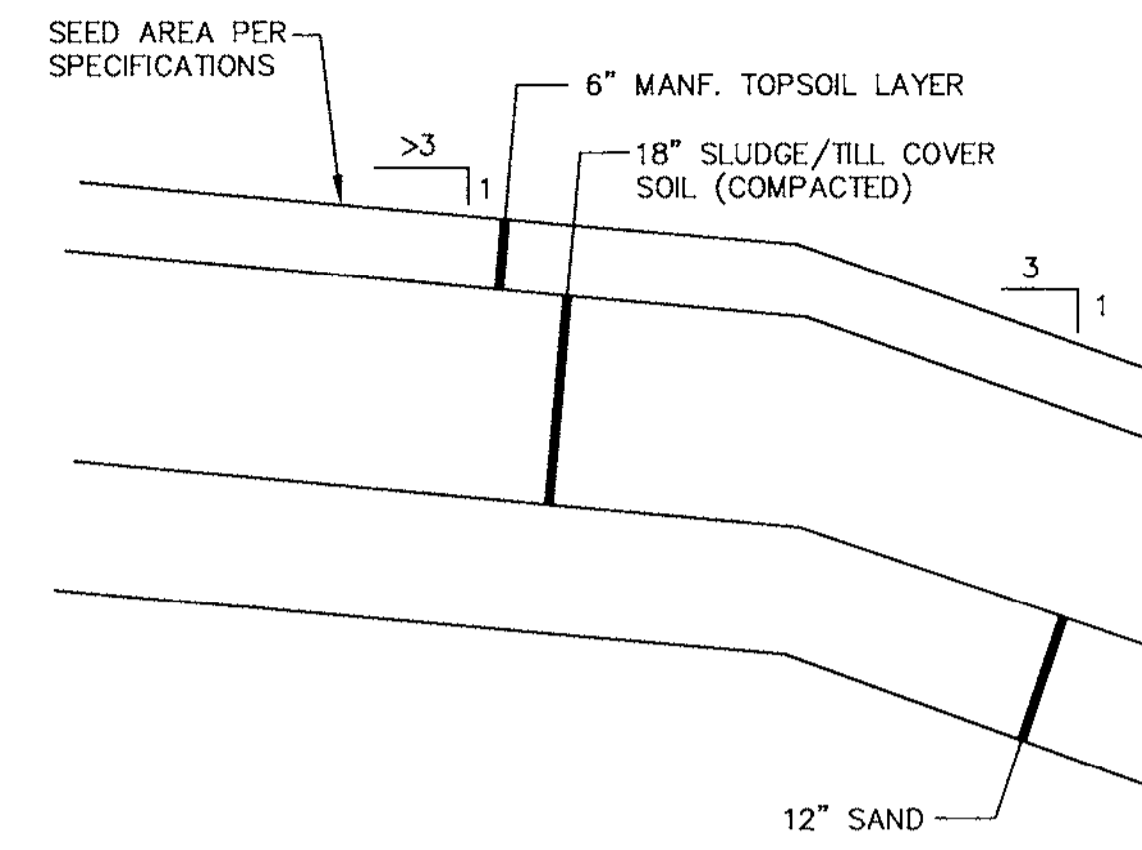
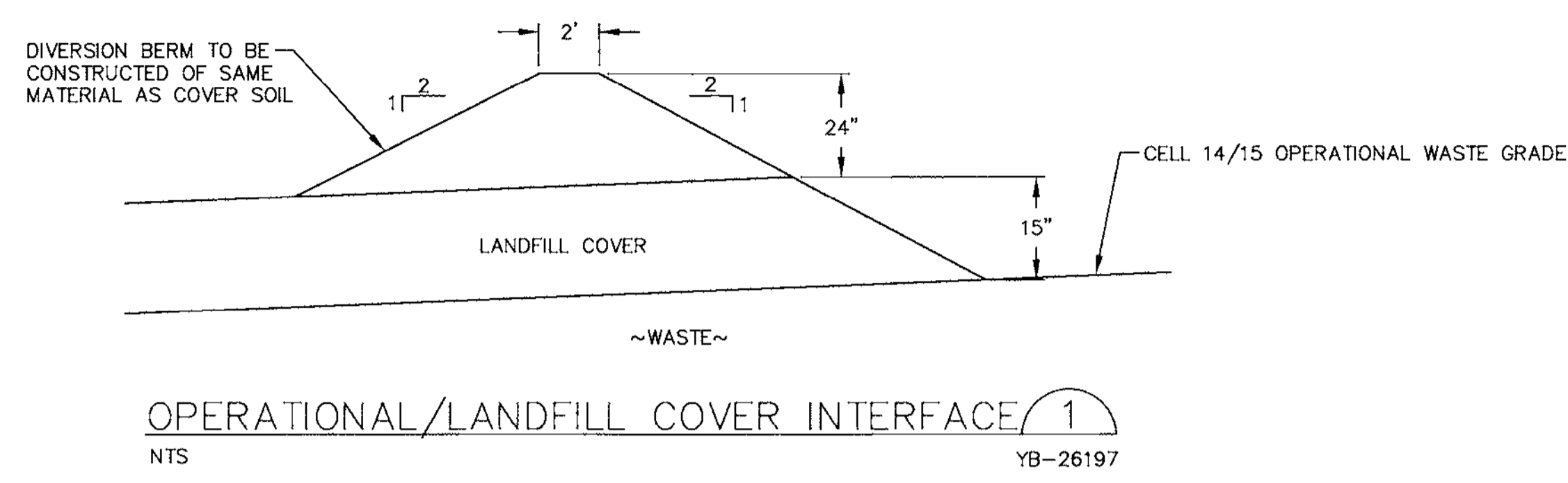
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

CAD FILE: YB-26198 B0

EAST OPERATION
DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
CELL 15 OPERATIONAL GRADING PLAN

JOB NO. _____
 FILE NO. _____
 LDC. NO. _____

YB-26198



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-																	
4	-																	
3	-			2/12/07	P	UPDATED PER MEDEP COMMENTS												
2	-			10/6/06	P	SUBMITTED TO MEDEP			GHC									
1	-			8/24/06	P	SUBMITTED TO CLIENT			RBC									

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 04011.04

DRN	DRD	8/11/06
CHKD	GHC	8/11/06
APPVD	-	-
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: YB-26199 B1

EAST OPERATION
DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
SECTIONS & DETAILS
 JOB NO. _____
 FILE NO. _____
 LIC. NO. _____
YB-26199
 SHEET 2 OF 2

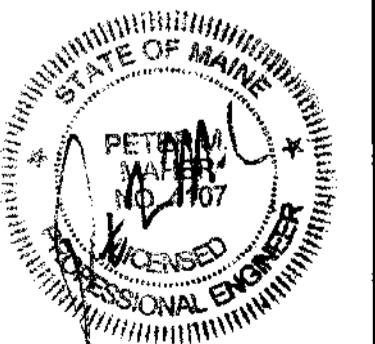
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KATAHDIN PAPER COMPANY, LLC EAST MILLINOCKET, MAINE DOLBY III LANDFILL CELL 16 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	
2	SYMBOLS & ABBREVIATIONS	C-100
3	EXISTING CONDITIONS PLAN	C-101
4	SITE DEVELOPMENT PLAN	C-102
5	OPERATIONAL GRADING PLAN	C-103
6	SECTIONS & DETAILS (SHEET 1 OF 1)	C-300

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	JOB NO. 08035.05	 Sevee & Maher Engineers, Inc. <small>4 Blanchard Road P.O. Box 85A Cumberland Center, ME 04021</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DIRN</td><td>MSB</td><td>7/08</td></tr> <tr><td>CHKD</td><td>GHC</td><td>7/08</td></tr> <tr><td>APPVD</td><td></td><td></td></tr> <tr><td colspan="3" style="text-align: center;">ISSUE CODE</td></tr> <tr><td colspan="3">P - Preliminary</td></tr> <tr><td colspan="3">B - Bids</td></tr> <tr><td colspan="3">C - Construction</td></tr> <tr><td colspan="3">ASB - As Built</td></tr> <tr><td colspan="3">SCALE NONE</td></tr> </table>	DIRN	MSB	7/08	CHKD	GHC	7/08	APPVD			ISSUE CODE			P - Preliminary			B - Bids			C - Construction			ASB - As Built			SCALE NONE			KATAHDIN PAPER COMPANY LLC. EAST MILLINOCKET, MAINE CAD FILE: COVERSHT.DWG	EAST OPERATION DOLBY III LANDFILL CELL 16 CONSTRUCTION COVER SHEET JOB NO. _____ FILE NO. _____ LOC. NO. _____
DIRN	MSB	7/08																																																
CHKD	GHC	7/08																																																
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SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (TRUE)		NORTH ARROW (MAGNETIC)		EDGE OF WATER		UG		UT		UE
	NORTH ARROW (PLAN NORTH)		WATER ELEVATION (GROUND OR SURFACE)		FENCE LINE (WOOD)		OE		OT		12" SS
	CONTOUR LINES		FENCE LINE (WIRE)		RETAINING WALL		8" FM		8" W		12" SD
	SPOT ELEVATION (INVERT ELEVATION)		STONE WALL		GUARD RAIL		8" UD		6" PD		6" LT
	EXISTING GROUND		RETAINING WALL		BUILDING AND STRUCTURES		6" LC		6" LD		6" G
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		SLOPE RATIO (HORIZONTAL TO VERTICAL)		SLOPES (WITH SLOPE RATIO)						
	PROPERTY LINE OR R.O.W.		EDGE OF ROAD		CUT OR FILL LINE						
	PROPERTY LINE W/ BEARING AND DISTANCE		BITUMINOUS PAVEMENT		CONCRETE						
	CONSTRUCTION BASELINE		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		UTILITY POLE						
	BOUNDARY LINE (State, County, Municipality)		TEST PIT AND NUMBER		LIGHT POLE						
	SURVEY MONUMENT		SURFACE WATER SAMPLE LOCATION								
	SURVEY CONTROL		GAS VENT								
	PROPERTY PIN, DRILL HOLE, PK, OR STAKE		GAS VENT (CAPPED)								
	WOODS OR BRUSH LINE		CLEAN OUT STRUCTURE								
	INDIVIDUAL TREE		CULVERT								
	MAPPED WETLAND		RAILROAD								
	GAS VENT		SLOPE INCLINOMETER								
	GAS VENT (CAPPED)		VIBRATING WIRE SETTLEMENT CELL								
	CLEAN OUT STRUCTURE		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT								
	CULVERT		VERTICAL DISPLACEMENT MONUMENT								
	RAILROAD		LIQUID SETTLEMENT GAGE								
	SLOPE INCLINOMETER										
	VIBRATING WIRE SETTLEMENT CELL										
	VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT										
	VERTICAL DISPLACEMENT MONUMENT										
	LIQUID SETTLEMENT GAGE										

GENERAL NOTES:
 THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:
 COMMON BORROW - MDOT SPECIFICATION 703.18
 SCREENED TILL - SHALL BE EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. SCREENED TILL SHALL BE GLACIAL TILL FREE OF FROZEN MATERIALS, PERISHABLE RUBBISH, PEAT, ORGANIC MATTER, LARGE ROCK FRAGMENTS, OR OTHER UNSUITABLE MATERIAL AND SHALL BE SCREENED TO LESS THAN 4" IN DIAMETER WITH GREATER THAN 20 PERCENT FINES. THE FINAL SURFACE OF THE SCREENED TILL SHALL BE FREE FROM PROTRUDING ROCKS GREATER THAN 3" IN DIAMETER.

SAND - THE DRAINAGE SAND SHALL BE AGGREGATE FREE OF ORGANIC MATTER, DEBRIS, AND ROCK FRAGMENTS LARGER THAN 1 INCH IN DIAMETER. SAND SHALL MEET A GRADATION AND HYDRAULIC CONDUCTIVITY REQUIREMENT AS FOLLOWS:

a. SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE
1/4"	60 - 100
#40	0 - 50
#200	0 - 7

b. REMODELLED HYDRAULIC CONDUCTIVITY (ASTM D 5084-90) MAXIMUM $\geq 1 \times 10^{-3}$ cm/sec

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PERFORATED HDPE UNDERDRAIN PIPE - SDR 21 - HDPE PIPE JOINTS SHALL BE BUTT-FUSION WELDED OR ELECTROFUSION COUPLED.

12" UNDERDRAIN/LEACHATE TRANSPORT PIPE - SOLID HANCOR TITELINE

SEED AND FERTILIZER:
 AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:
 FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:		
TALL FESCUE		59%
RED FESCUE		25%
RED TOP		5%
LADINO CLOVER		3%
ANNUAL RYEGRASS		8%

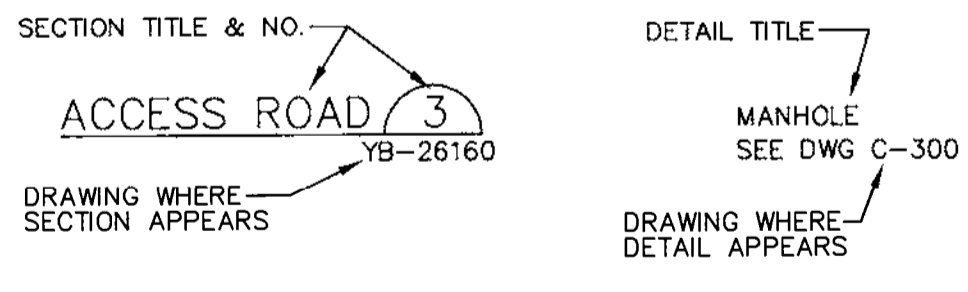
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION



ACOMP	ASPHALT COATED CMP	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
AC	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HORIZ	HORIZONTAL	PP	POWER POLE
AGG	AGGREGATE	DEG OR	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	DEPT	DEPTH	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	DI	DUCTILE IRON	ID	INSIDE DIAMETER	PVMT	PAVEMENT
APPD	APPROVED	DIA OR Ø	DIAMETER	IN OR	INCHES	QTY	QUANTITY
APPROX	APPROXIMATE	DM	DIMENSION	INVERT	INVERT ELEVATION	ROP	REINFORCED CONCRETE PIPE
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	LD	LEACHATE COLLECTION	ROW	RIGHT OF WAY
ASB	ASBESTOS	DN	DOWN	LF	LEAK DETECTION	RAD	RADIUS
ASP	ASPHALT	DR	DRAIN	LOC	LOCATION	REQD	REQUIRED
AUTO	AUTOMATIC	DWG	DRAWING	LT	LEACHATE TRANSPORT	RT	RIGHT
AUX	AUXILIARY	EA	EACH	LT	LEACHATE TRANSPORT	RTE	ROUTE
AVE	AVENUE	EG	EXISTING GROUND OR GRADE	LB	LEACHATE COLLECTION	S	SLOPE
AZ	AZIMUTH	ELEC	ELECTRIC	LC	LEACHATE COLLECTION	SCH	SCHEDULE
		EL	ELEVATION	LD	LEAK DETECTION	SF	SQUARE FEET
		ELB	ELBOW	LF	LINEAR FEET	SHT	SHEET
BCCMP	BITUMINOUS COATED CMP	EOP	EDGE OF PAVEMENT	LOC	LOCATION	SMH	SANITARY MANHOLE
BM	BENCH MARK	EQ	EQUIPMENT	LT	LEACHATE TRANSPORT	ST	STREET
BIT	BITUMINOUS	EST	ESTIMATED	MH	MANHOLE	STA	STATION
BLDG	BUILDING	EXC	EXCAVATE	LD	LEAK DETECTION	SY	SQUARE YARD
BOTM	BOTTOM	EXIST	EXISTING	LD	LEAK DETECTION	TAN	TANGENT
BRG	BEARING	FG	FINISH GRADE	LOC	LOCATION	TDB	TOTAL DYNAMIC HEAD
BY	BALL VALVE	FIBRGL	FIBERGLASS	LOC	LOCATION	TEMP	TEMPORARY
CB	CATCH BASIN	FDN	FOUNDATION	LOC	LOCATION	TP	TYPICAL
CEN	CENTER	FLG	FLANGE	LOC	LOCATION	UD	UNDERDRAIN
CEN LIN	CEMENT LINED	FLR	FLOOR	LOC	LOCATION	V	VOLTS
CMP	CORRUGATED METAL PIPE	FLS	FLEXIBLE	LOC	LOCATION	VA TEE	VALVE ANCHORING TEE
CO	CLEAN OUT	FT OR	FEET OR	LOC	LOCATION	VERT	VERTICAL
CF	CUBIC FEET	FTG	FOOTING	LOC	LOCATION		
CFS	CUBIC FEET PER SECOND	GA	GAUGE	LOC	LOCATION		
C	CAST IRON	GAL	GALLON	LOC	LOCATION		
CL	CLASS	GALV	GALVANIZED	LOC	LOCATION		
CONC	CONCRETE	GPM	GALLONS PER MINUTE	LOC	LOCATION		
CONST	CONSTRUCTION			LOC	LOCATION		
CONTR	CONTRACTOR			LOC	LOCATION		
CS	CURB STOP			LOC	LOCATION		
CTR	CENTER			LOC	LOCATION		
CU	COPPER			LOC	LOCATION		
CY	CUBIC YARD			LOC	LOCATION		

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 83A
 Cumberland Center, ME 04021

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE NONE		

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

EAST OPERATION
 DOLBY III LANDFILL
 CELL 16 CONSTRUCTION
 SYMBOLS AND ABBREVIATIONS

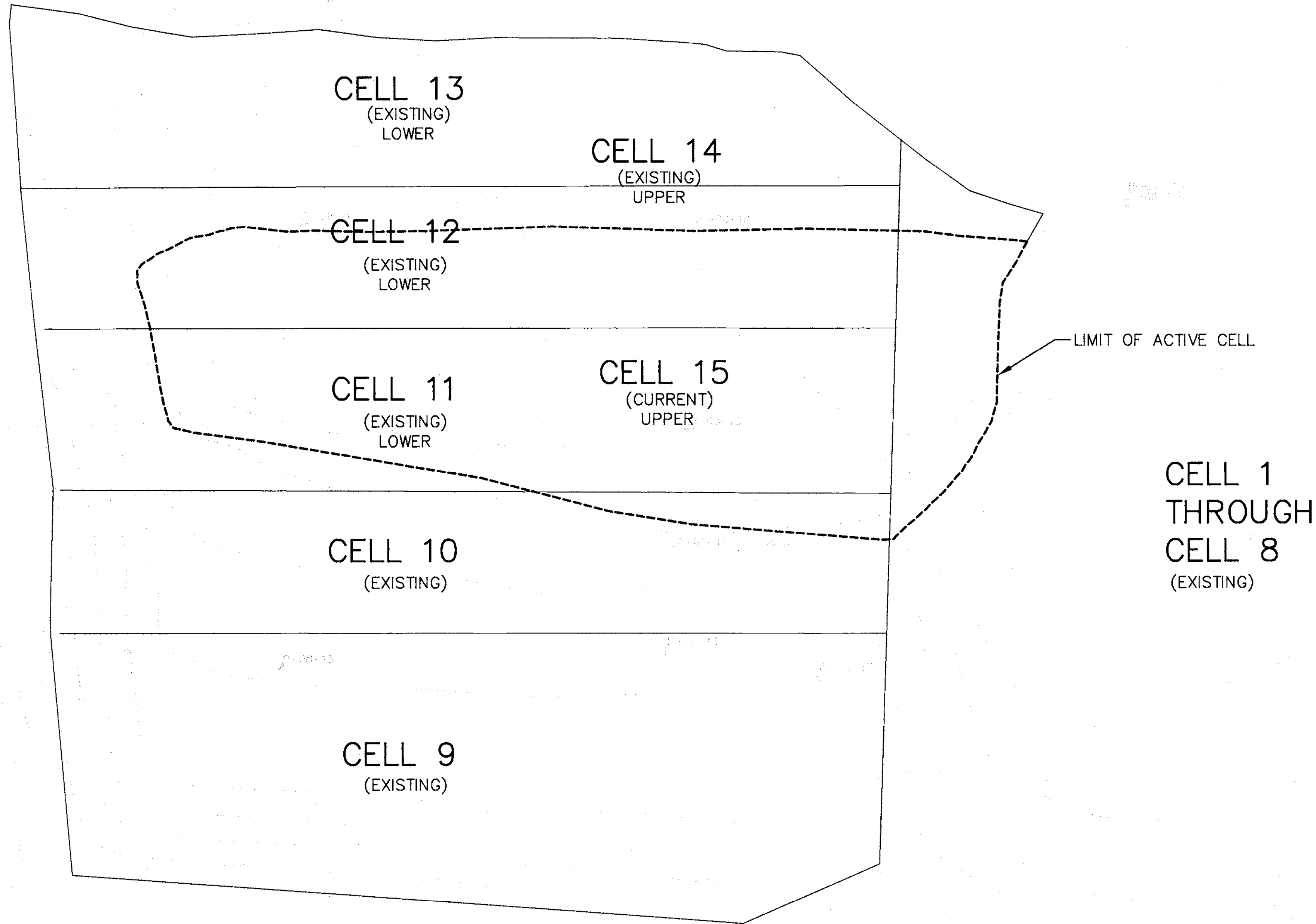
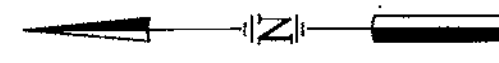
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 FILE NO. _____
 LOC. NO. _____

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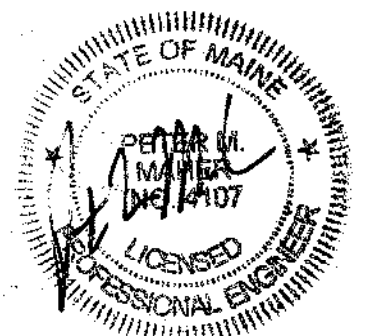
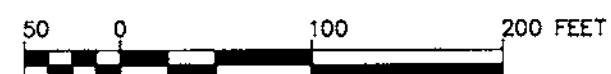
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1	-	-	P	7/23/08	SUBMITTED TO MEDEP													

JOB NO. 08035.05



GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/14/08.
2. GROUND CONTROL PROVIDED BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE.
3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
5. KATAHDIN PAPER COMPANY IS ACTIVELY FILLING CELL 15. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	
1			P	7/23/08		SUBMITTED TO MEDEP													

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE AS SHOWN		

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

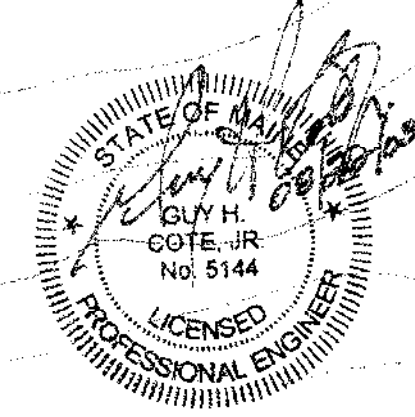
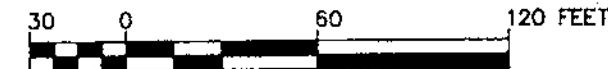
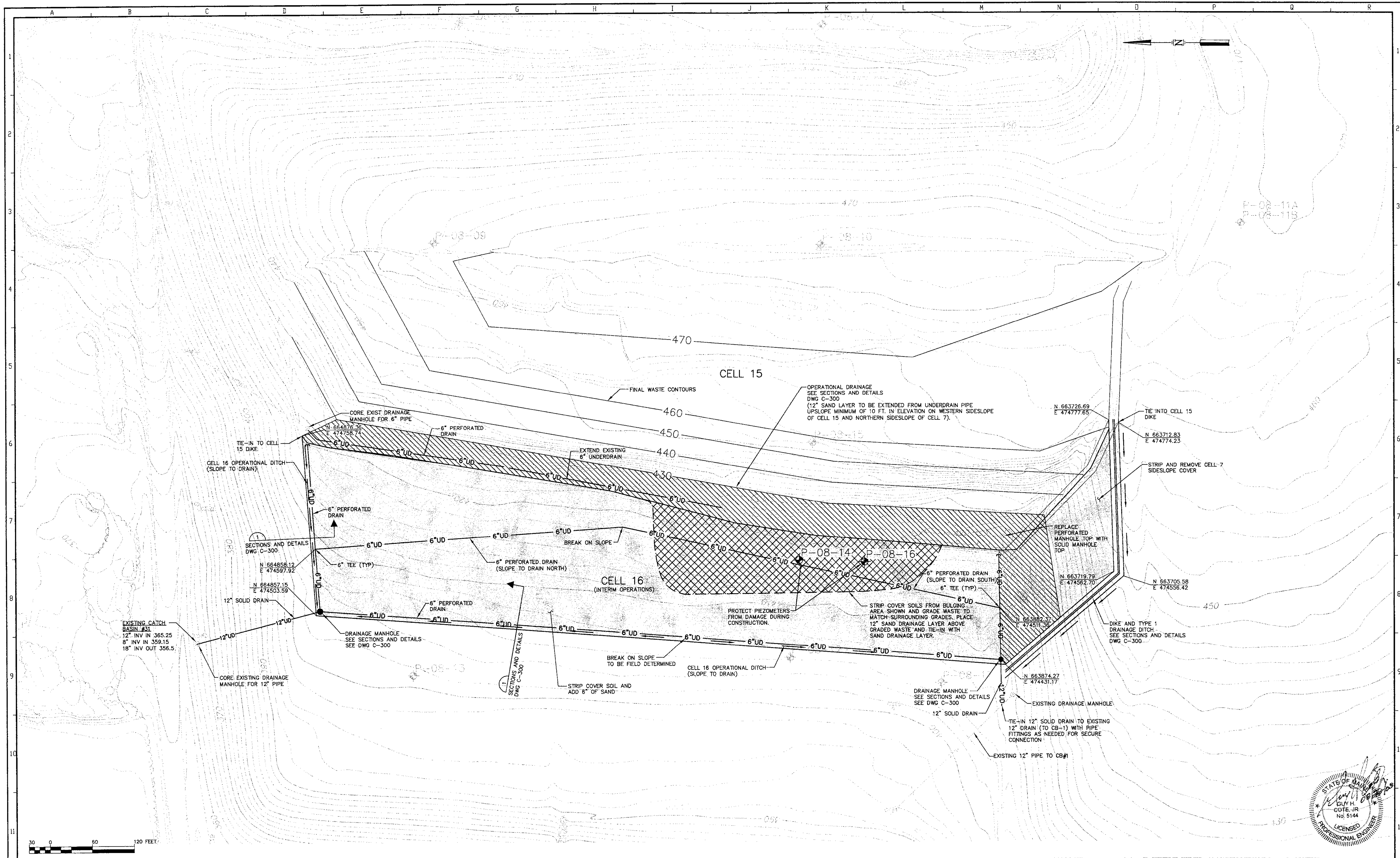
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EAST OPERATION
DOLBY III LANDFILL
CELL 16 CONSTRUCTION
EXISTING CONDITIONS PLAN

JOB NO. _____
FILE NO. _____
LOC. NO. _____

C-101

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SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN MSB 7/08
CHKD GHC 7/08
APPVD
ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

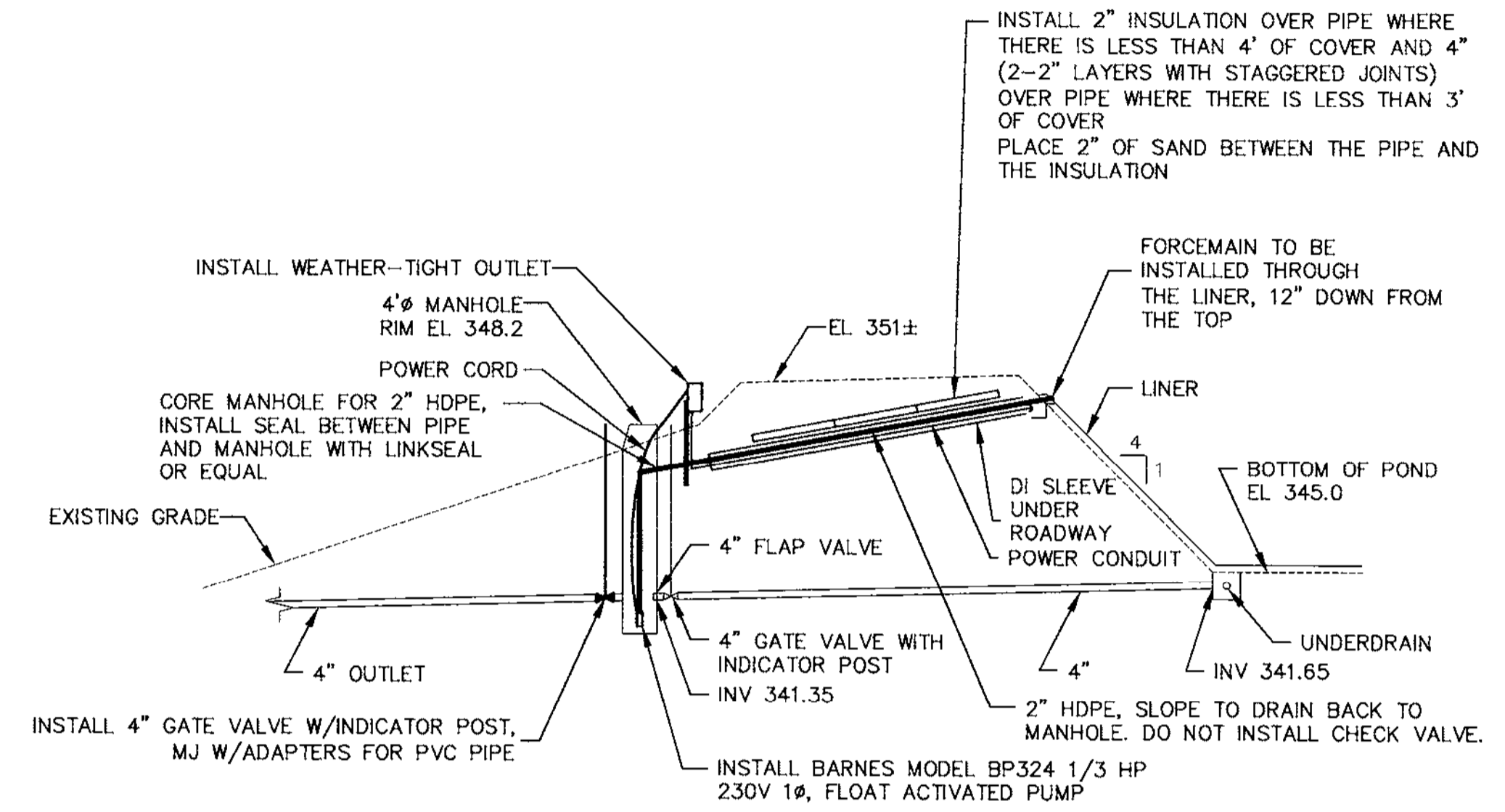
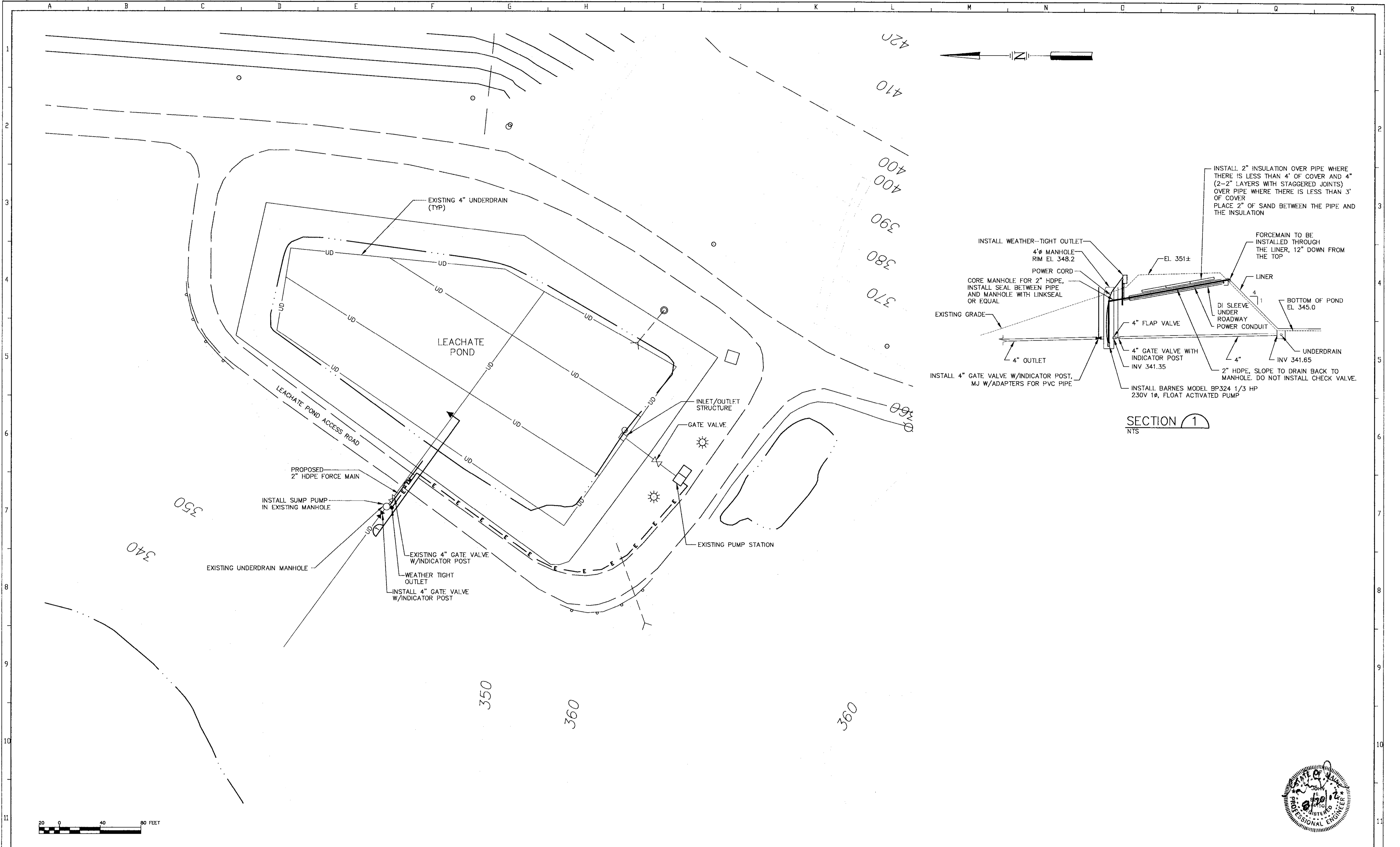
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EAST OPERATION
DOLBY III LANDFILL
CELL 16 CONSTRUCTION
SITE DEVELOPMENT PLAN

JOB NO. _____
FILE NO. _____
LOC. NO. _____

C-102

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5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC.	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	NORRIDGEWOOD, MAINE - PHOTO DATE 10/23/95, GROUND CONTROL BY PLUSGA & DAY.	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.	8/13/02	SUBMITTED TO MDEP											
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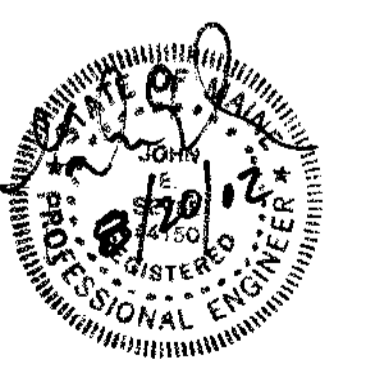
SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

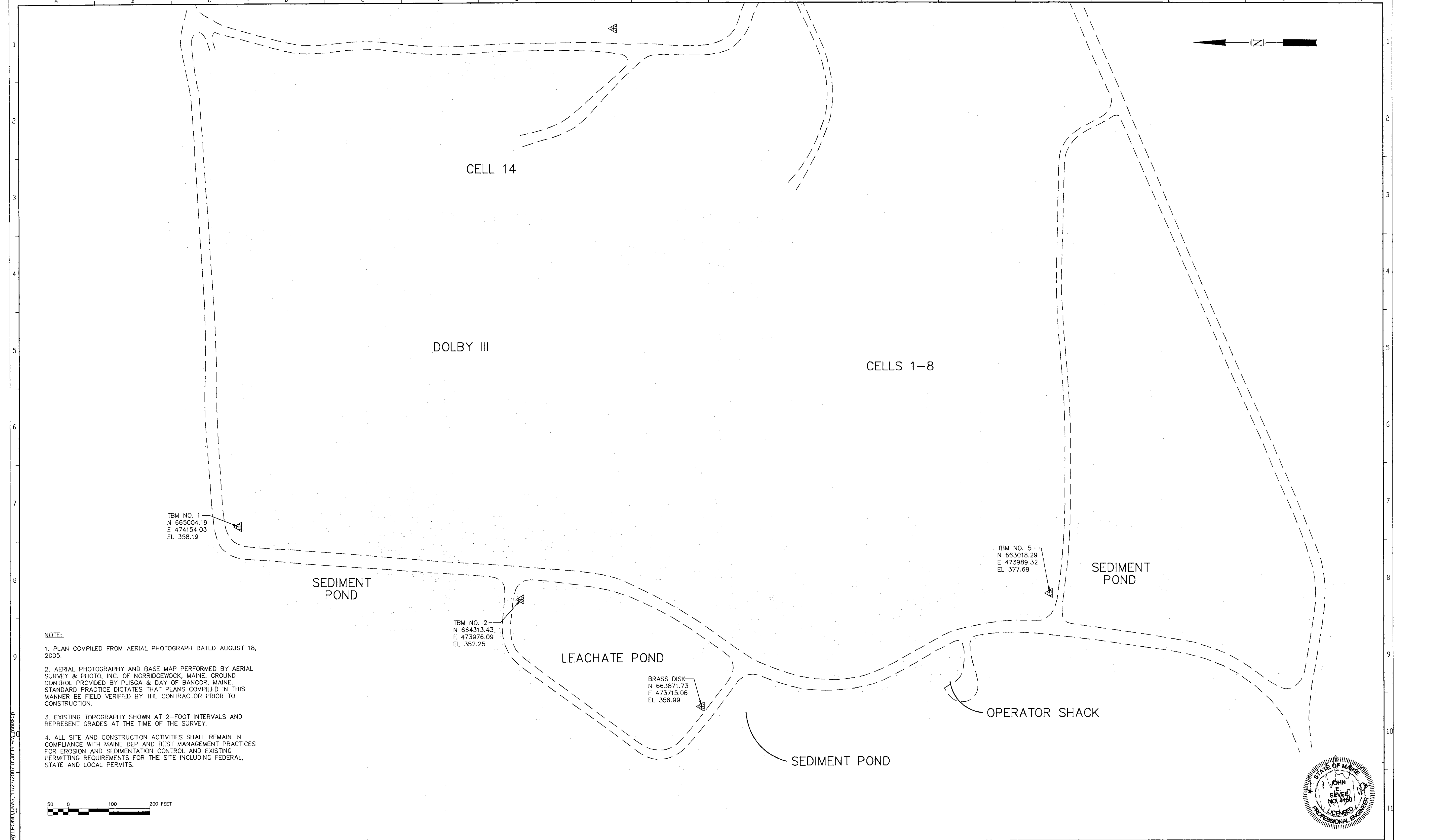
DRN	DRD	7/27/02
CHKD	GHC	7/27/02
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	NONE	



CAD FILE: AS9548.DWG

EAST OPERATION
DOLBY III LANDFILL
LEACHATE POND
REPIPING OF UNDERDRAIN DISCHARGE
 JOB NO. _____
 FILE NO. _____
 LDC. NO. _____
YB-26109





NOTE:

1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOOD, MAINE. GROUND CONTROL PROVIDED BY PLISGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MAINE DEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.

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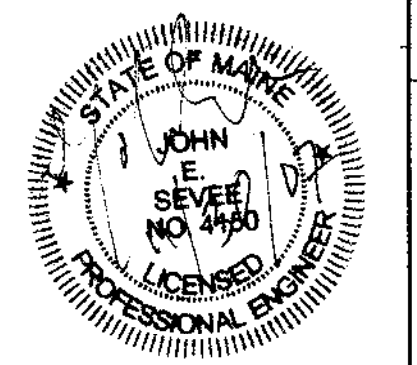
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4	-																	
3	-			11/26/07	ASB	RECORD DRAWING												
2	-			10/31/06	B	ISSUED FOR BID		GHC										
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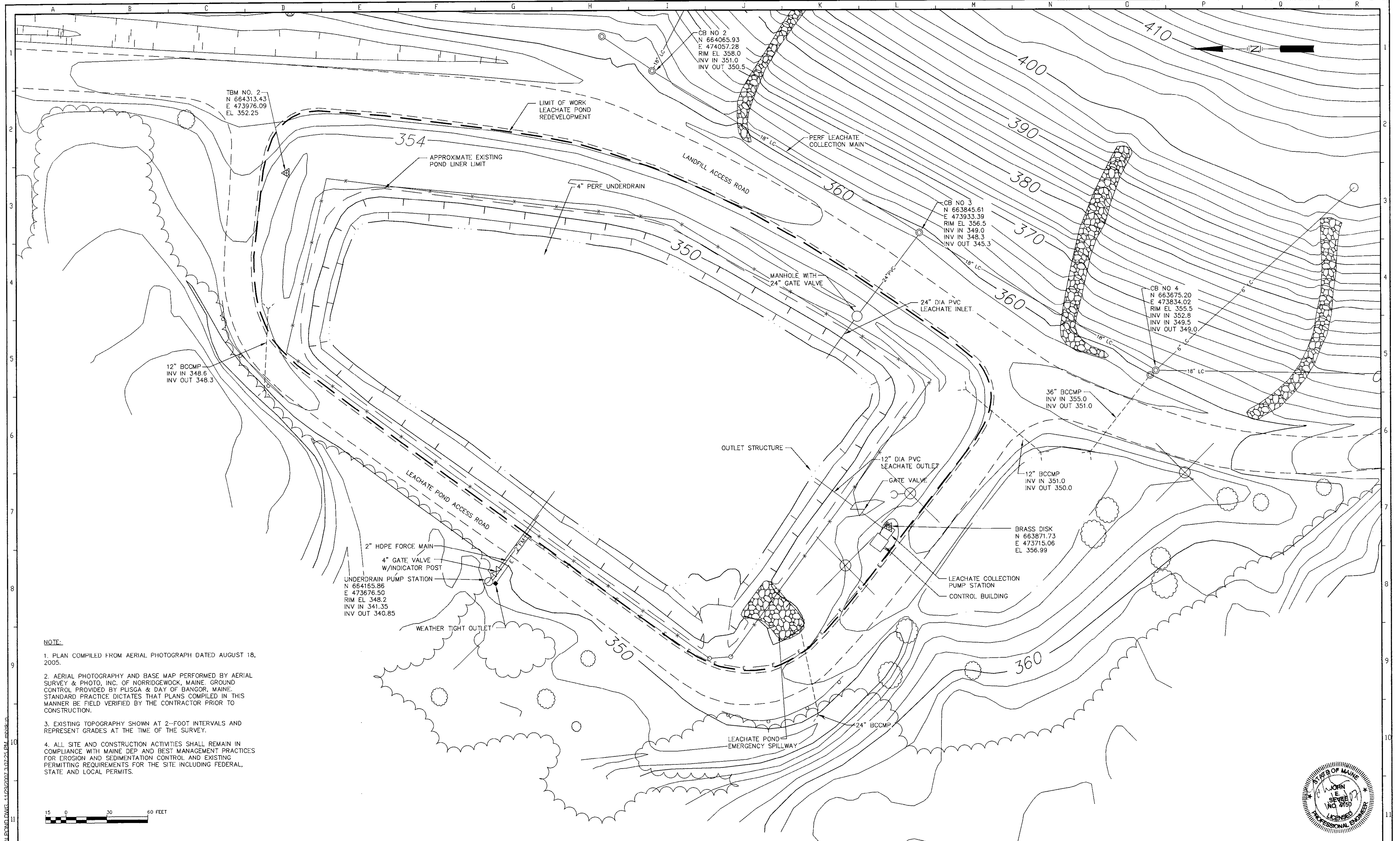
SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE: AS NOTED		

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: LPOND.DWG

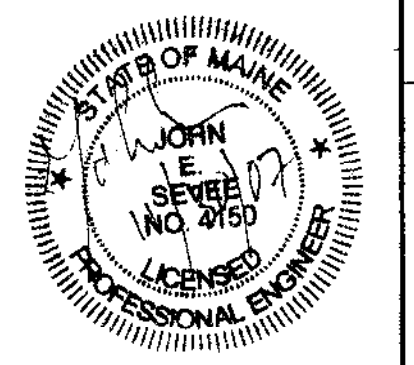
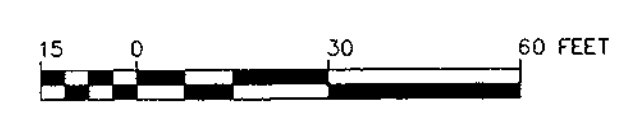
EAST OPERATION
DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
SITE LOCATION PLAN
 JOB NO. 05043
 FILE NO. 0-000-0000
 I.D.C. NO.
YB-26189





NOTE:

1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOOD, MAINE. GROUND CONTROL PROVIDED BY PLISGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
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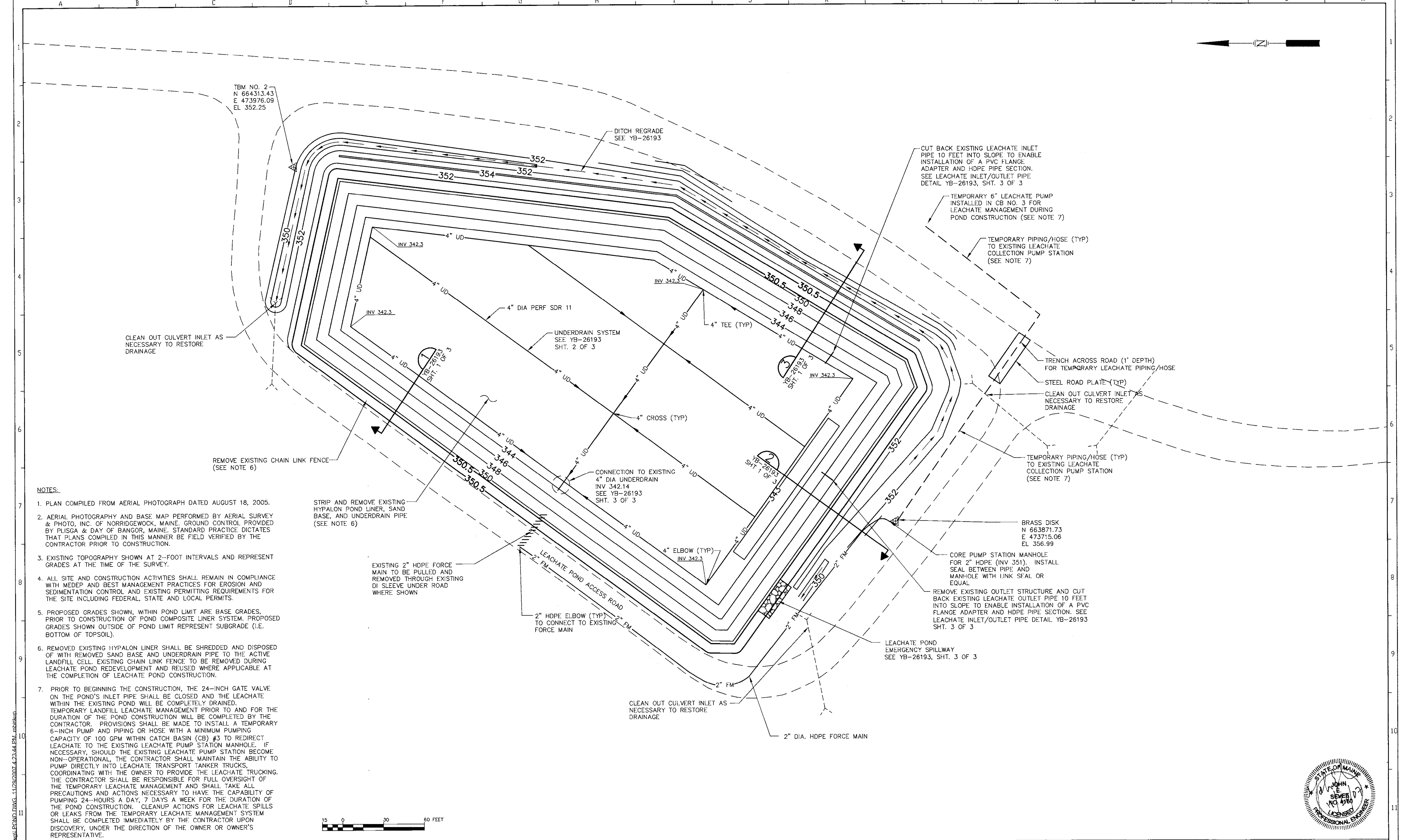


REV.	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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4	-	11/26/07	ASE	-	-	-	-	-	RECORD DRAWING	-	-	-	-
3	-	10/31/06	B	-	-	-	-	-	ISSUED FOR BID	GHC	-	-	-
2	-	5/17/06	P	-	-	-	-	-	REVISED PER MEDEP COMMENTS	GHC	-	-	-
1	-	12/9/05	P	-	-	-	-	-	SUBMITTED TO MEDEP	GHC	-	-	-

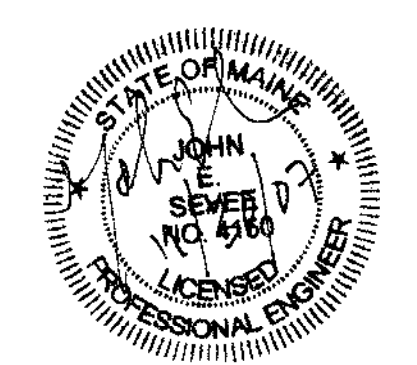
SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: LPOND.DWG

EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 EXISTING CONDITIONS PLAN
 YB-26190



- NOTES:**
1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
 2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE. GROUND CONTROL PROVIDED BY PLUSGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MEDEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.
 5. PROPOSED GRADES SHOWN, WITHIN POND LIMIT ARE BASE GRADES. PRIOR TO CONSTRUCTION OF POND COMPOSITE LINER SYSTEM. PROPOSED GRADES SHOWN OUTSIDE OF POND LIMIT REPRESENT SUBGRADE (I.E. BOTTOM OF TOPSOIL).
 6. REMOVED EXISTING HYPALON LINER SHALL BE SHREDDED AND DISPOSED OF WITH REMOVED SAND BASE AND UNDERDRAIN PIPE TO THE ACTIVE LANDFILL CELL. EXISTING CHAIN LINK FENCE TO BE REMOVED DURING LEACHATE POND REDEVELOPMENT AND REUSED WHERE APPLICABLE AT THE COMPLETION OF LEACHATE POND CONSTRUCTION.
 7. PRIOR TO BEGINNING THE CONSTRUCTION, THE 24-INCH GATE VALVE ON THE POND'S INLET PIPE SHALL BE CLOSED AND THE LEACHATE WITHIN THE EXISTING POND WILL BE COMPLETELY DRAINED. TEMPORARY LANDFILL LEACHATE MANAGEMENT PRIOR TO AND FOR THE DURATION OF THE POND CONSTRUCTION WILL BE COMPLETED BY THE CONTRACTOR. PROVISIONS SHALL BE MADE TO INSTALL A TEMPORARY 6-INCH PUMP AND PIPING OR HOSE WITH A MINIMUM PUMPING CAPACITY OF 100 GPM WITHIN CATCH BASIN (CB) #3 TO REDIRECT LEACHATE TO THE EXISTING LEACHATE PUMP STATION MANHOLE. IF NECESSARY, SHOULD THE EXISTING LEACHATE PUMP STATION BECOME NON-OPERATIONAL, THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO PUMP DIRECTLY INTO LEACHATE TRANSPORT TANKER TRUCKS. COORDINATING WITH THE OWNER TO PROVIDE THE LEACHATE TRUCKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL OVERSIGHT OF THE TEMPORARY LEACHATE MANAGEMENT AND SHALL TAKE ALL PRECAUTIONS AND ACTIONS NECESSARY TO HAVE THE CAPABILITY OF PUMPING 24-HOURS A DAY, 7 DAYS A WEEK FOR THE DURATION OF THE POND CONSTRUCTION. CLEANUP ACTIONS FOR LEACHATE SPILLS OR LEAKS FROM THE TEMPORARY LEACHATE MANAGEMENT SYSTEM SHALL BE COMPLETED IMMEDIATELY BY THE CONTRACTOR UPON DISCOVERY, UNDER THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE.



REV.	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION
6	-	-	-	-	-	-	-	-	-
5	11/26/07	ASB	-	-	-	-	-	-	RECORD DRAWING
4	12/5/06	B	-	-	-	-	-	-	ADDENDUM NO. 2
3	10/31/06	B	-	-	-	-	-	-	ISSUED FOR BID
2	5/17/06	P	-	-	-	-	-	-	REVISED PER MEDEP COMMENTS
1	12/9/05	P	-	-	-	-	-	-	SUBMITTED TO MEDEP

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 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

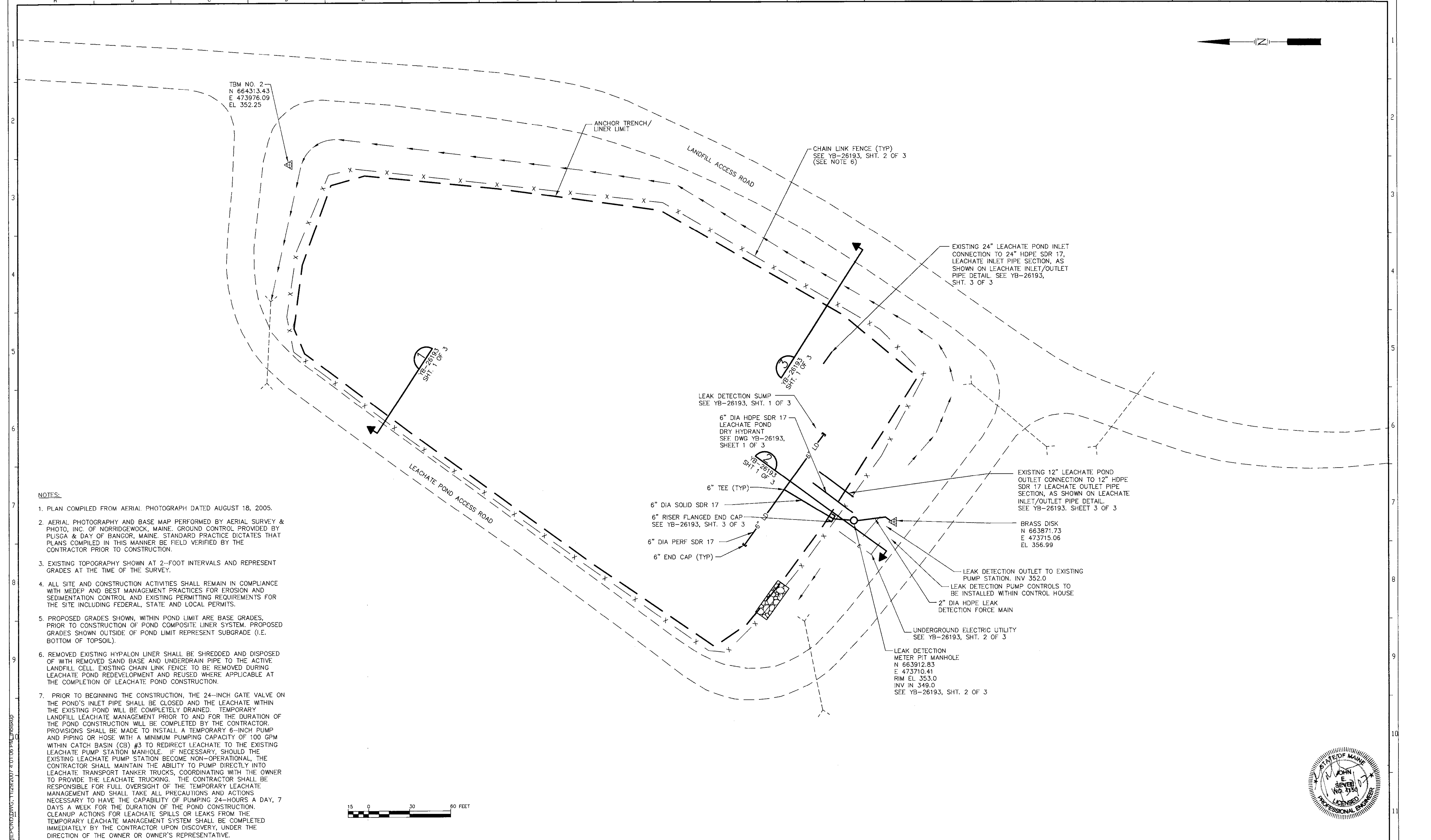
CAD FILE: LPOND.DWG

EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 BASE GRADING AND
 UNDERDRAIN PLAN

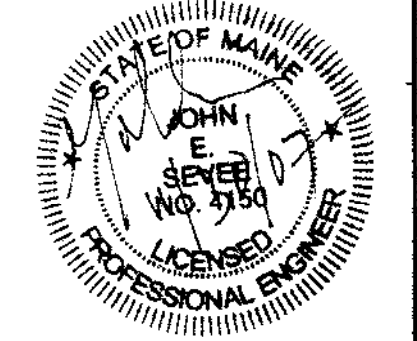
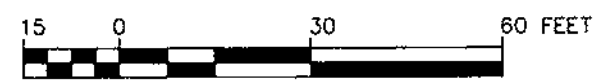
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 LDC. NO. _____

YB-26191

DRN	MBISK	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	-	Preliminary
B	-	Bids
C	-	Construction
ASB	-	As Built
SCALE	-	AS NOTED



- NOTES:**
1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
 2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE. GROUND CONTROL PROVIDED BY PLUSGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
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REV.	DATE	DESCRIPTION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	11/26/07	ASE RECORD DRAWING												
3	10/31/06	B ISSUED FOR BID		GHC										
2	5/17/06	P REVISED PER MEDEP COMMENTS		GHC										
1	12/9/05	P SUBMITTED TO MEDEP		GHC										

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 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine

JOB NO. 05043.01

DRN	MBISK	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	AS NOTED	

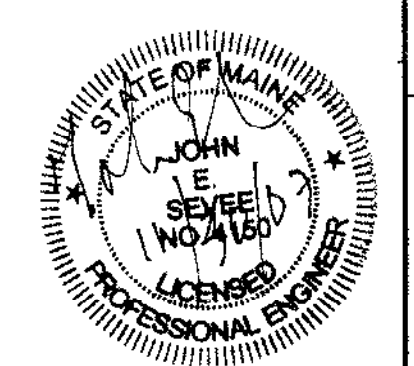
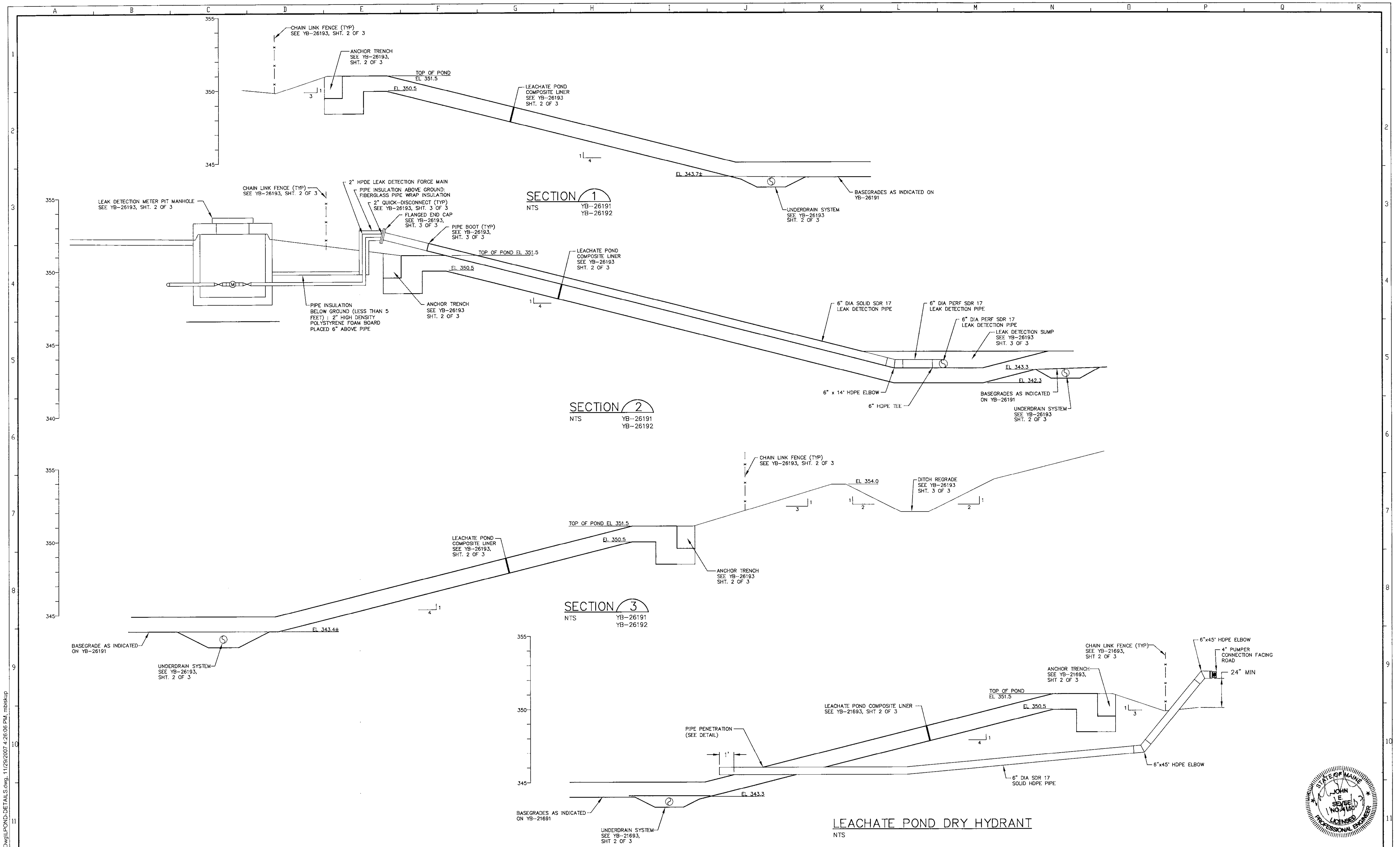
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 LEAK DETECTION PLAN

JOB NO. 0000
 FILE NO. 0-000-0000
 LOC. NO. _____

CAD FILE: LPOND.DWG

YB-26192



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
1				12/9/05	P								SUBMITTED TO MEDEP				
2				5/17/06	P								REVISED PER MEDEP COMMENTS				
3				10/31/06	B								ISSUED FOR BID				
4				11/26/07	ASB								RECORD DRAWING				

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Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	AS NOTED	

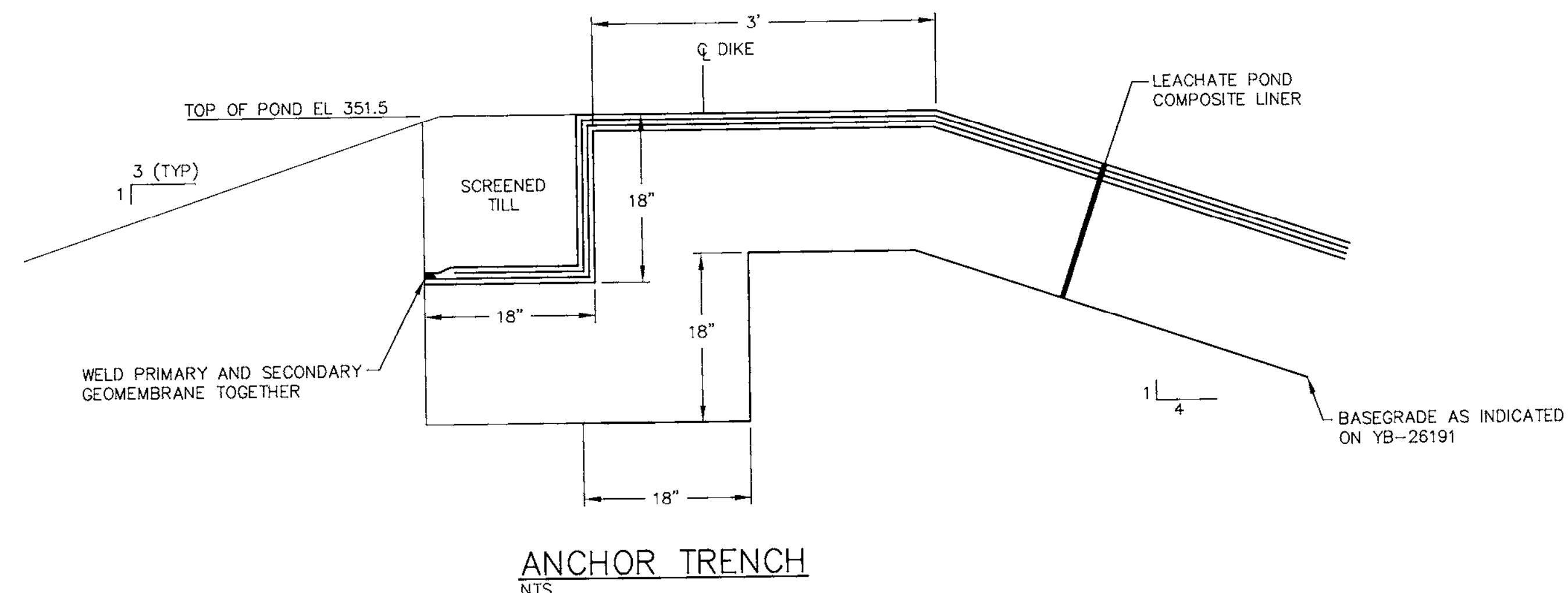
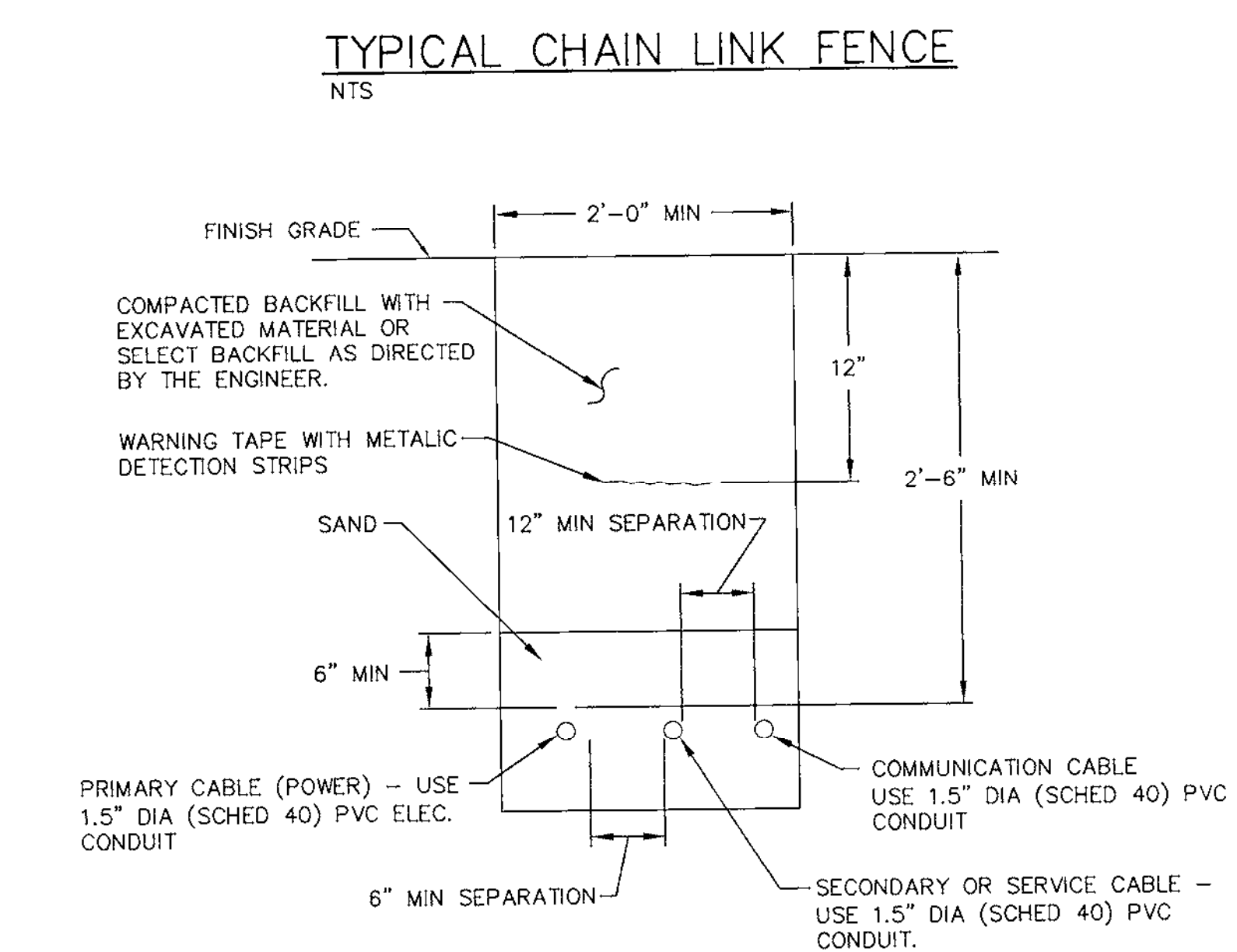
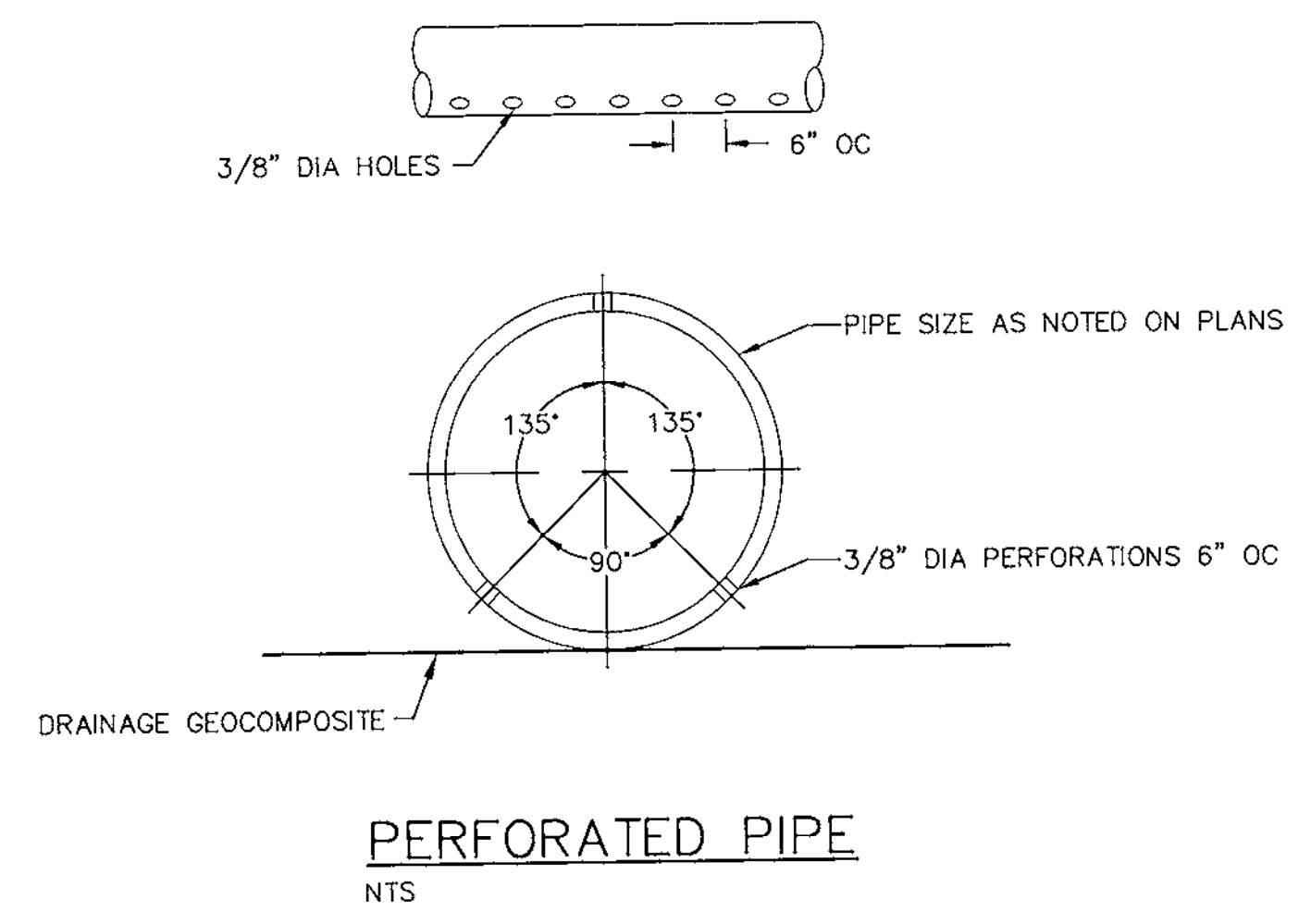
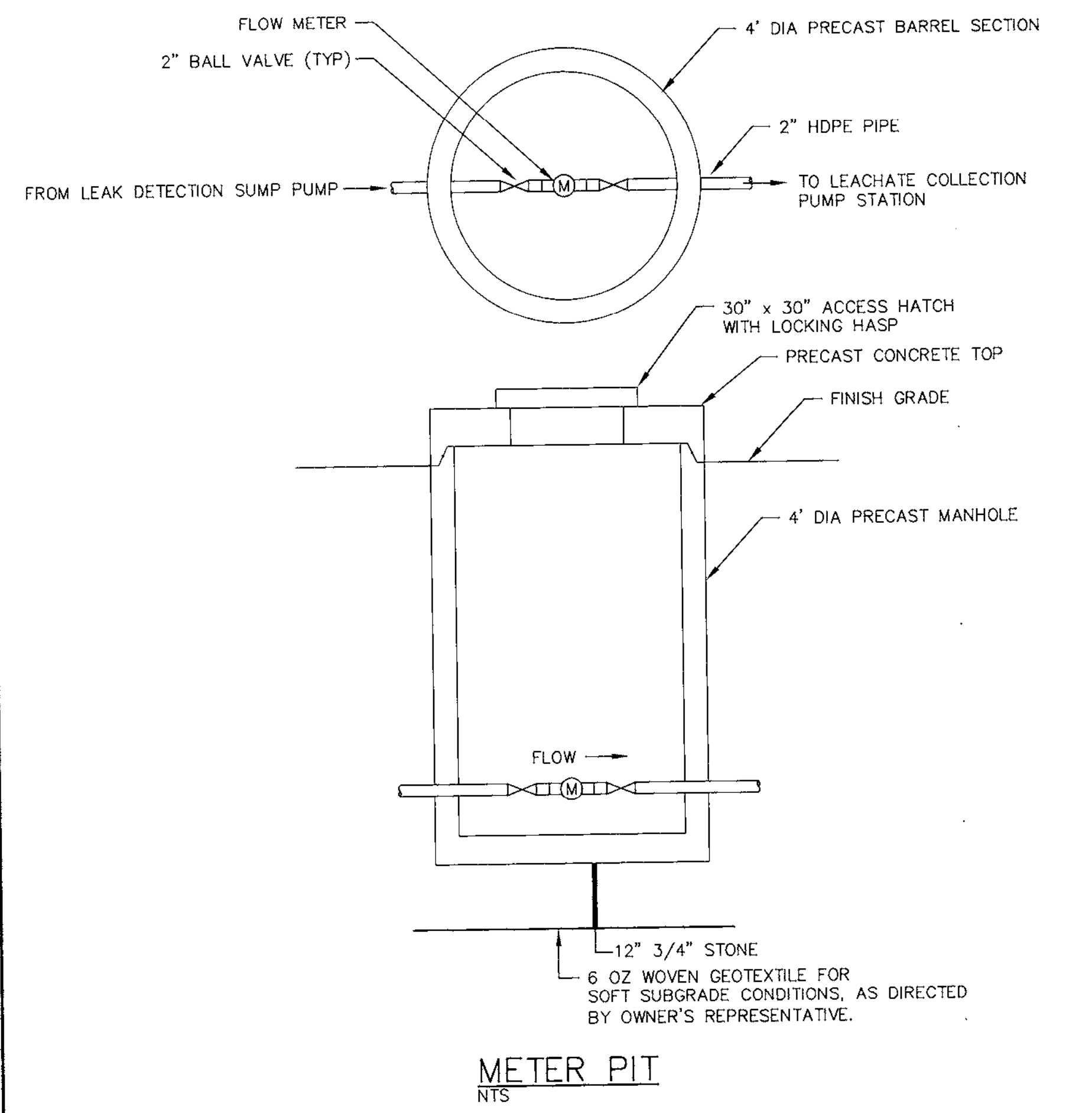
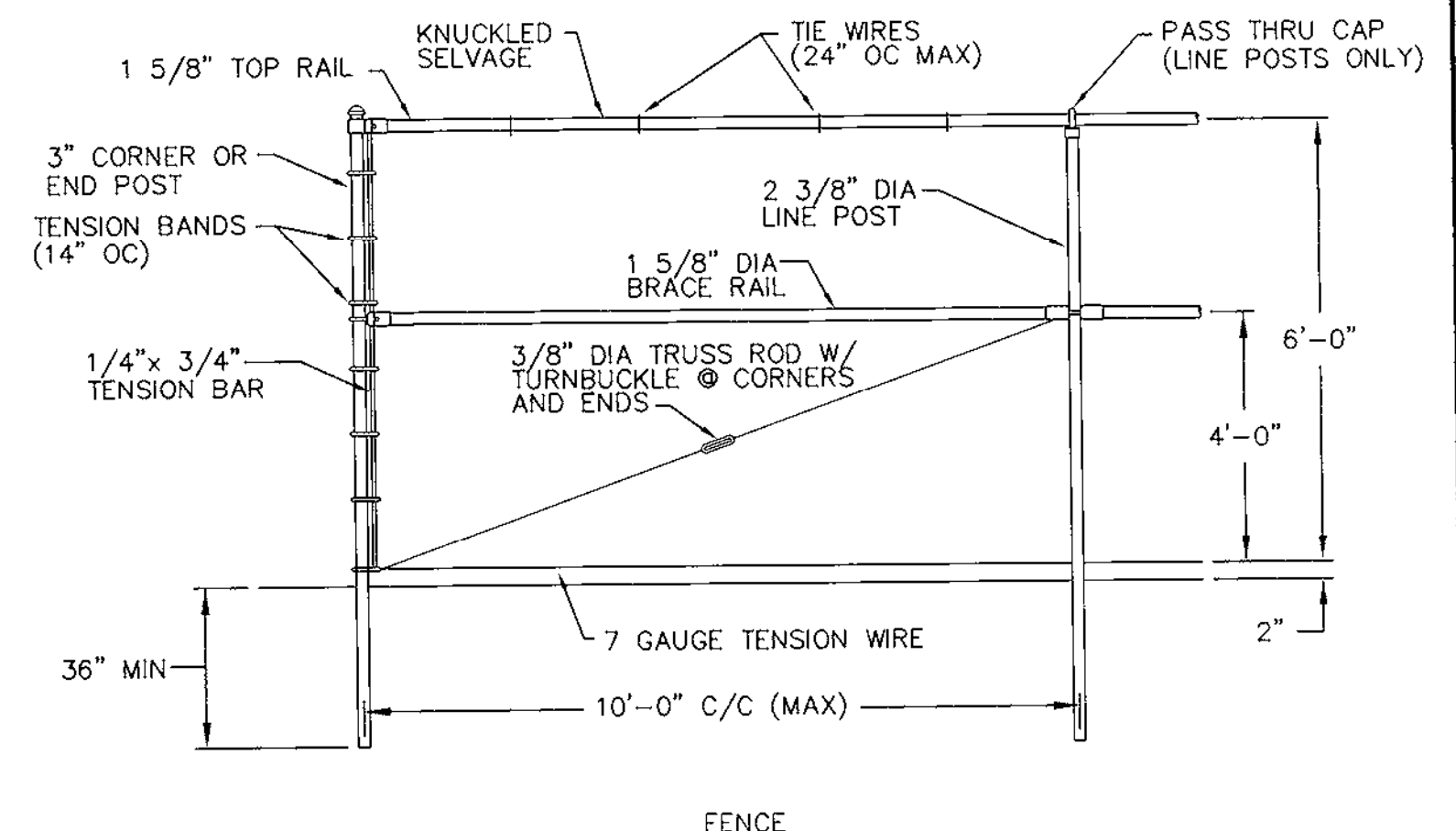
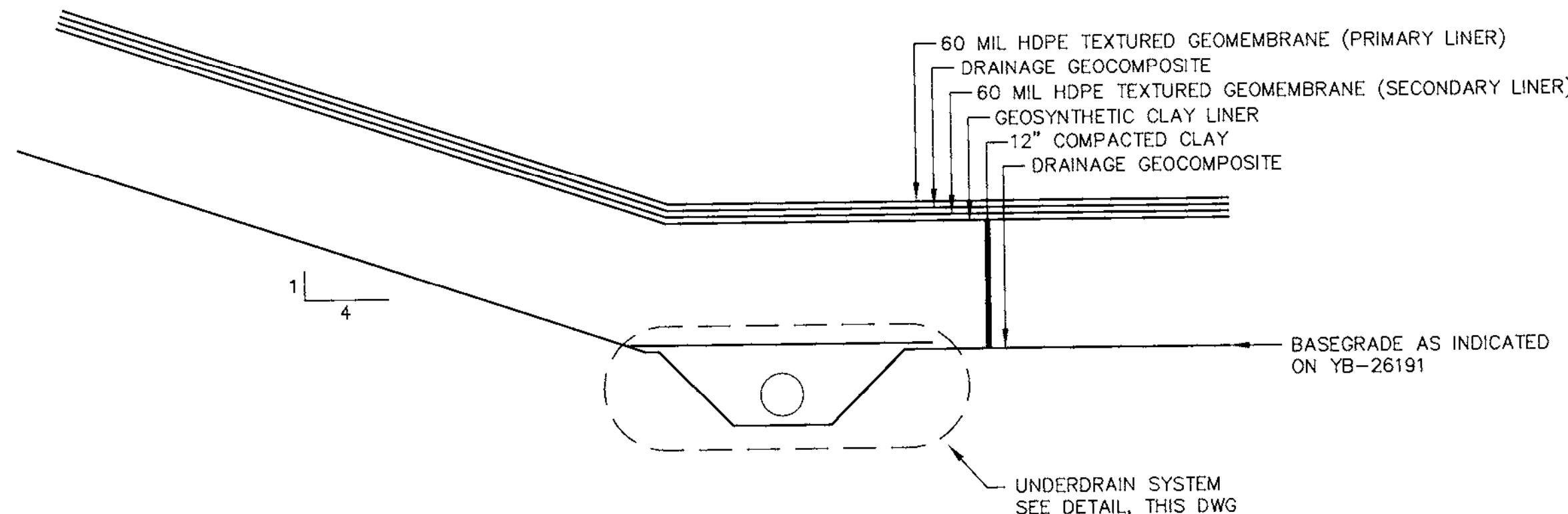
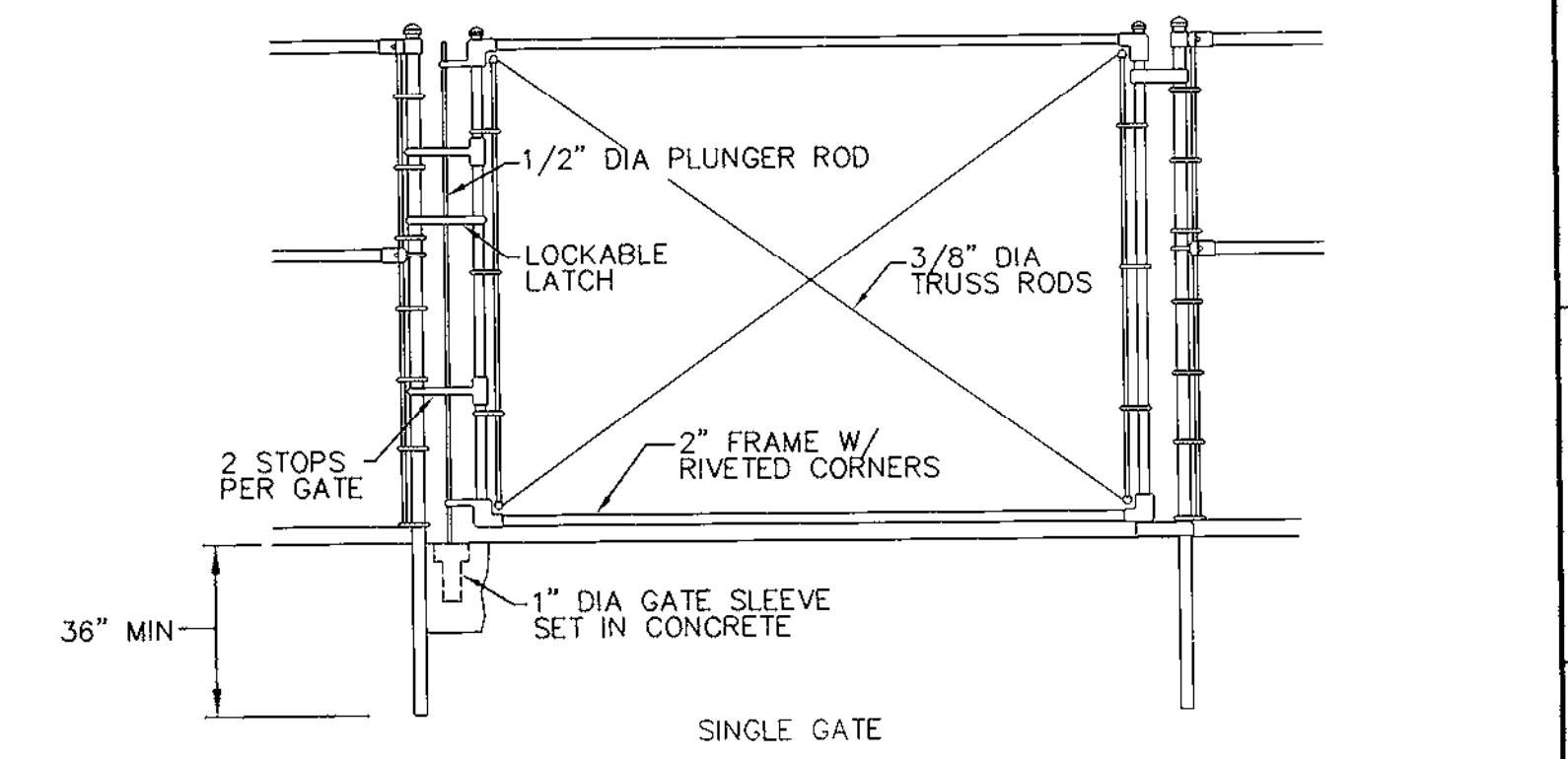
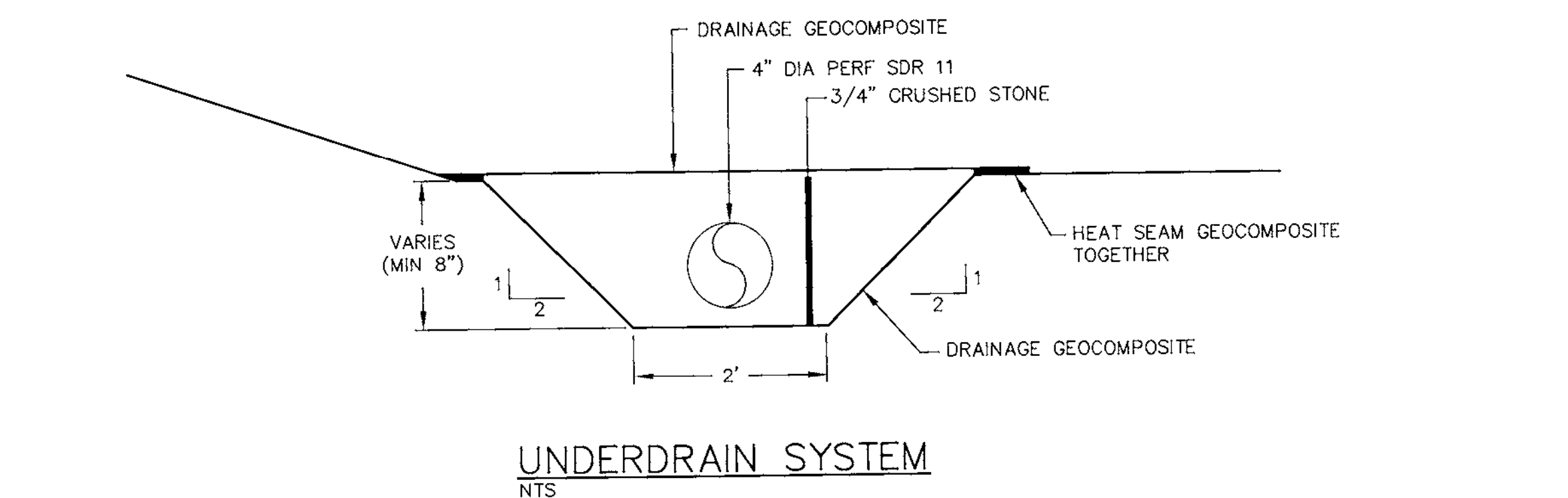
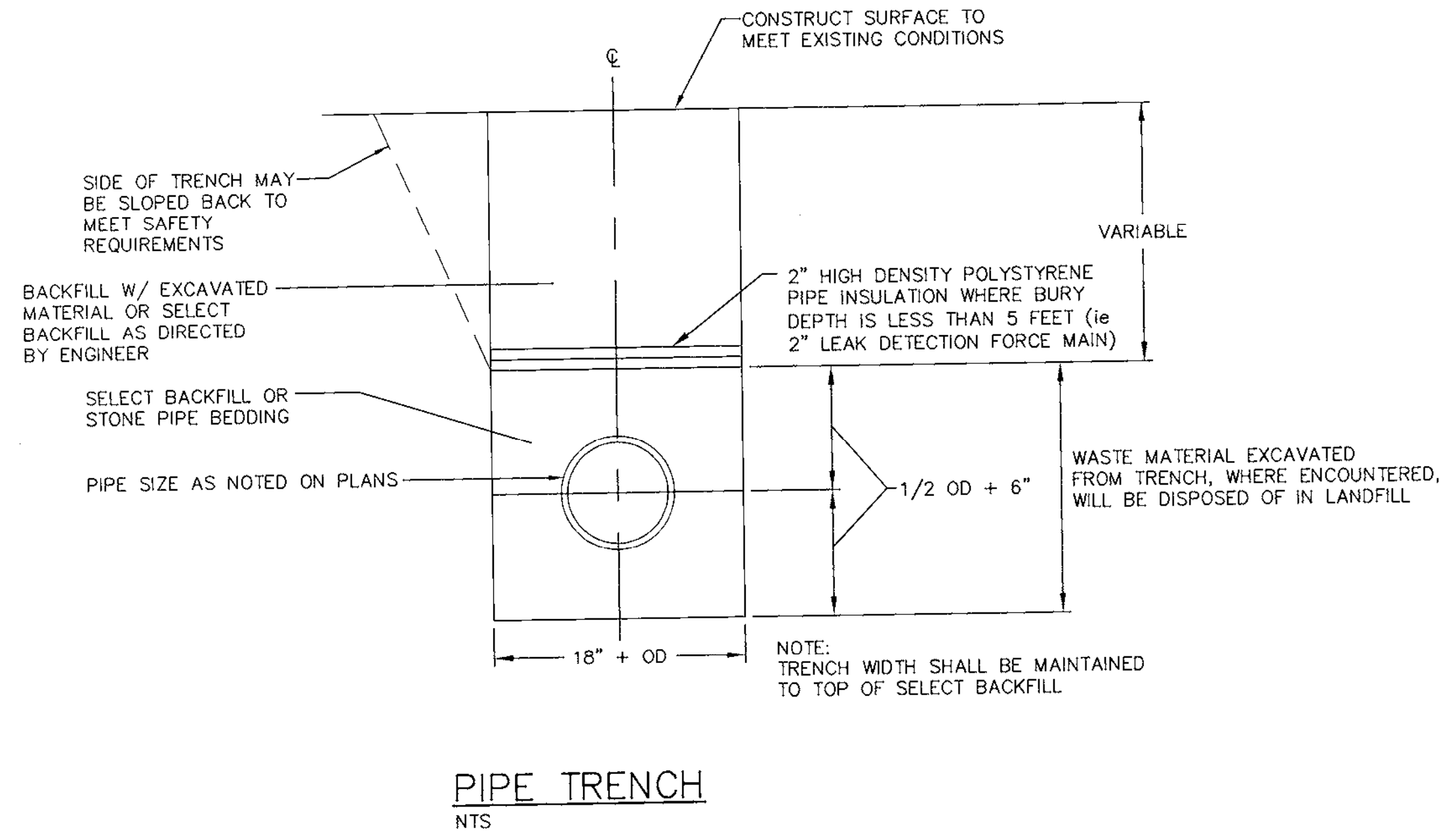
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

CAD FILE: YB-26193 B0

EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 SECTIONS AND DETAILS
 (SHEET 1 OF 3)

JOB NO. 00000
 FILE NO. 0-000-0000
 LDC. NO. **YB-26193**

G:\kpc\Do\CAD\Leachate Pond\Rec\DWG\LPO\DETAILS.dwg, 11/29/2007 4:26:06 PM, mbiskup



REV	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV	REVISION
6	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
4	11/26/07	ASB	-	-	-	-	-	-	RECORD DRAWING
3	10/31/08	B	GHC	-	-	-	-	-	ISSUED FOR BID
2	5/17/06	P	GHC	-	-	-	-	-	REVISED PER MEDEP COMMENTS
1	12/9/05	P	GHC	-	-	-	-	-	SUBMITTED TO MEDEP

SME

Sevee & Maher Engineers, Inc.

Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

JOB NO. 05043.01

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD	-	-

ISSUE CODE

P - Preliminary

B - Bids

C - Construction

ASB - As Built

SCALE AS NOTED

KATAHDIN PAPER COMPANY LLC.

EAST MILLINOCKET, MAINE

CAD FILE: YB-26193 B1

EAST OPERATION

DOLBY III LANDFILL

LEACHATE POND REDEVELOPMENT

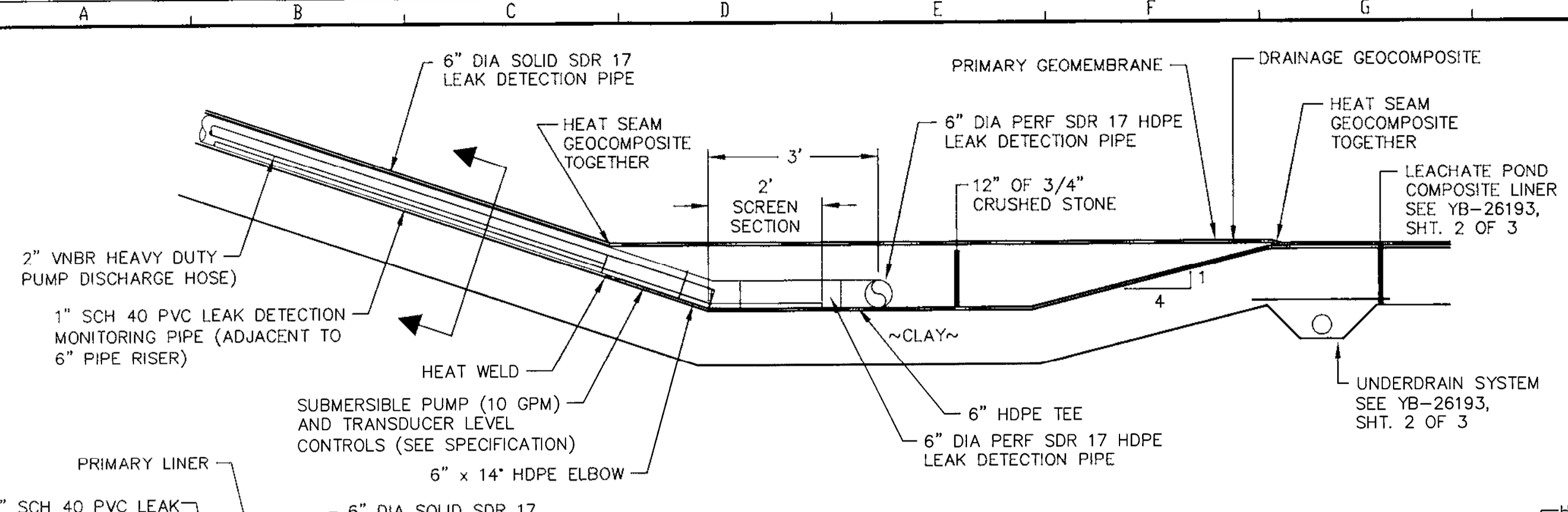
SECTIONS AND DETAILS

(SHEET 2 OF 3)

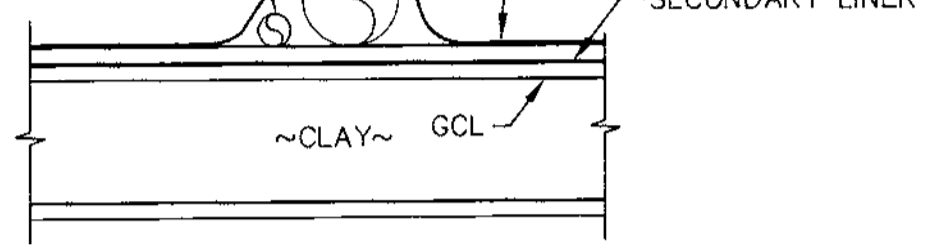
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LOC. NO.

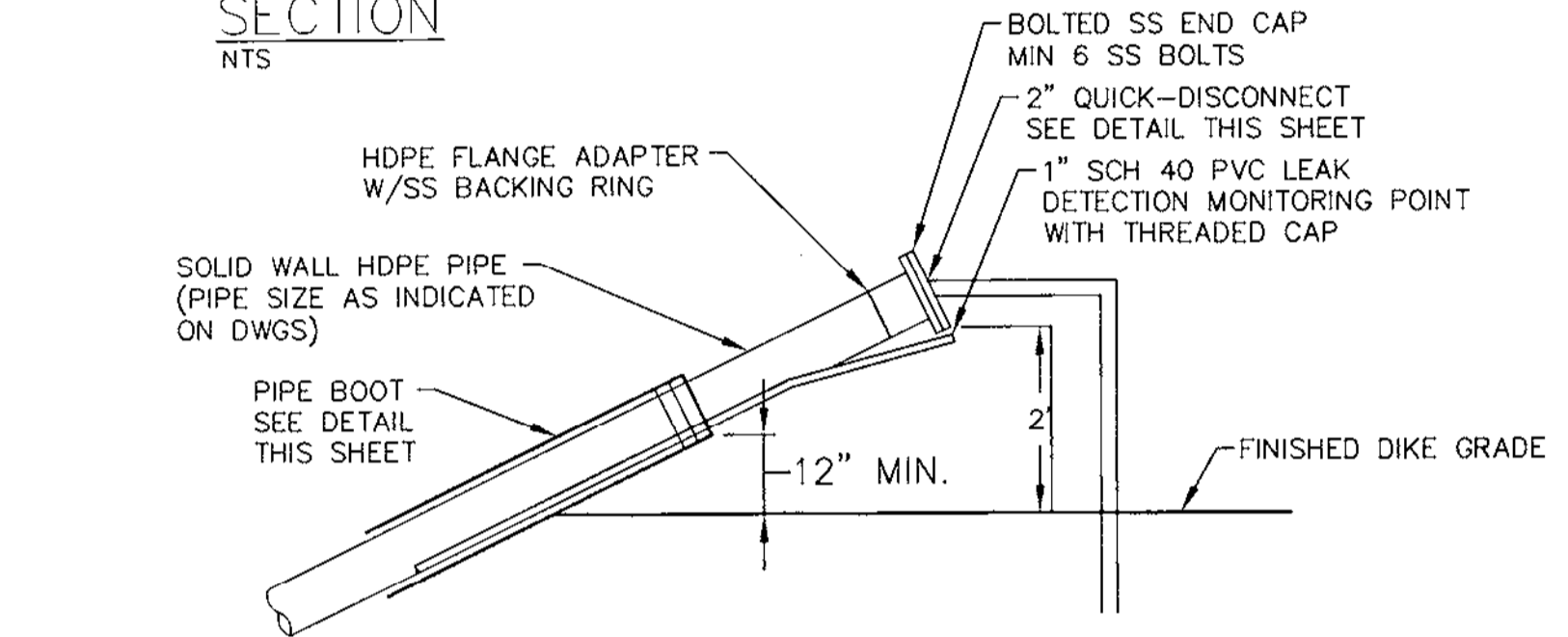
YB-26193



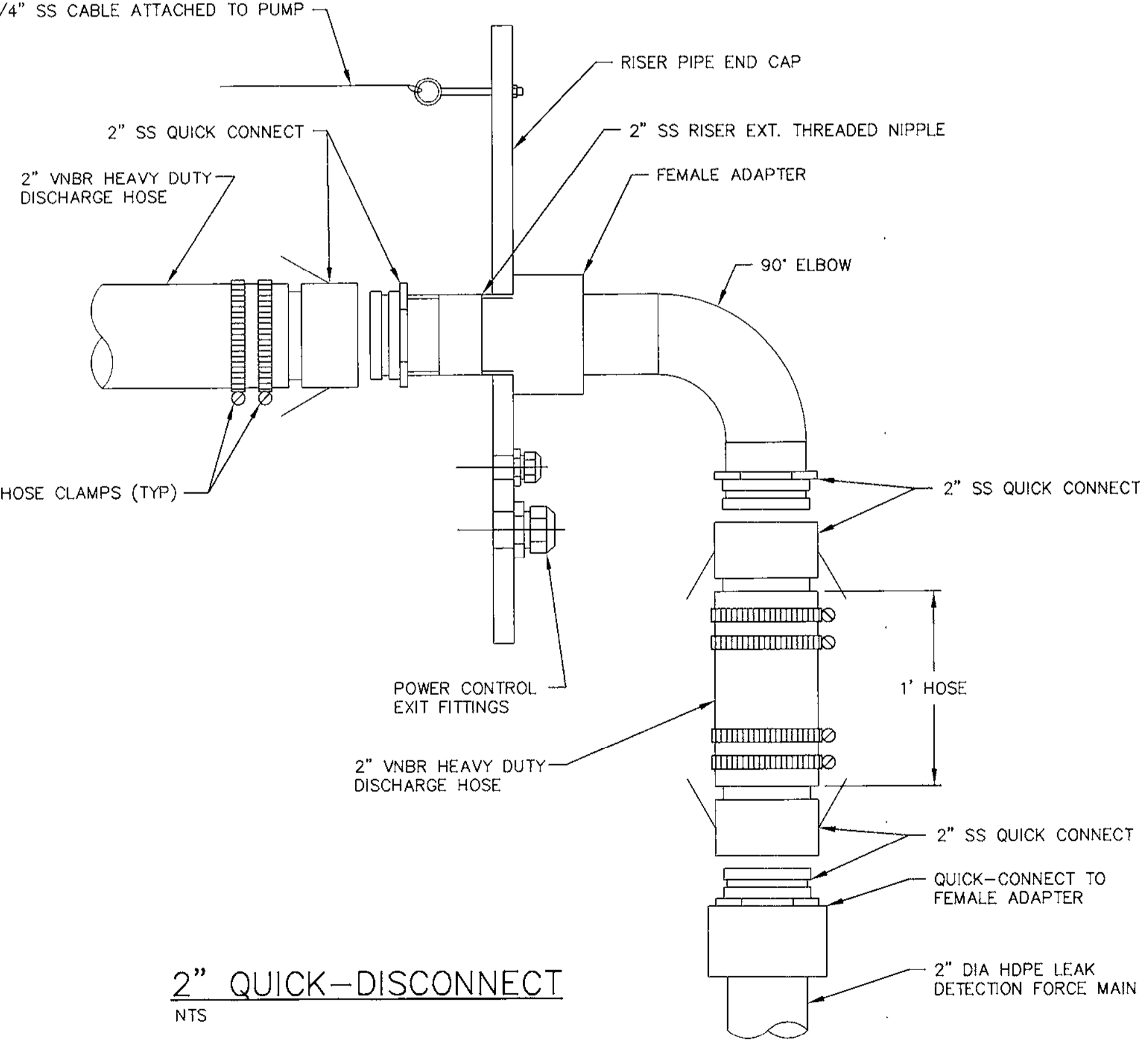
LEAK DETECTION SUMP
NTS



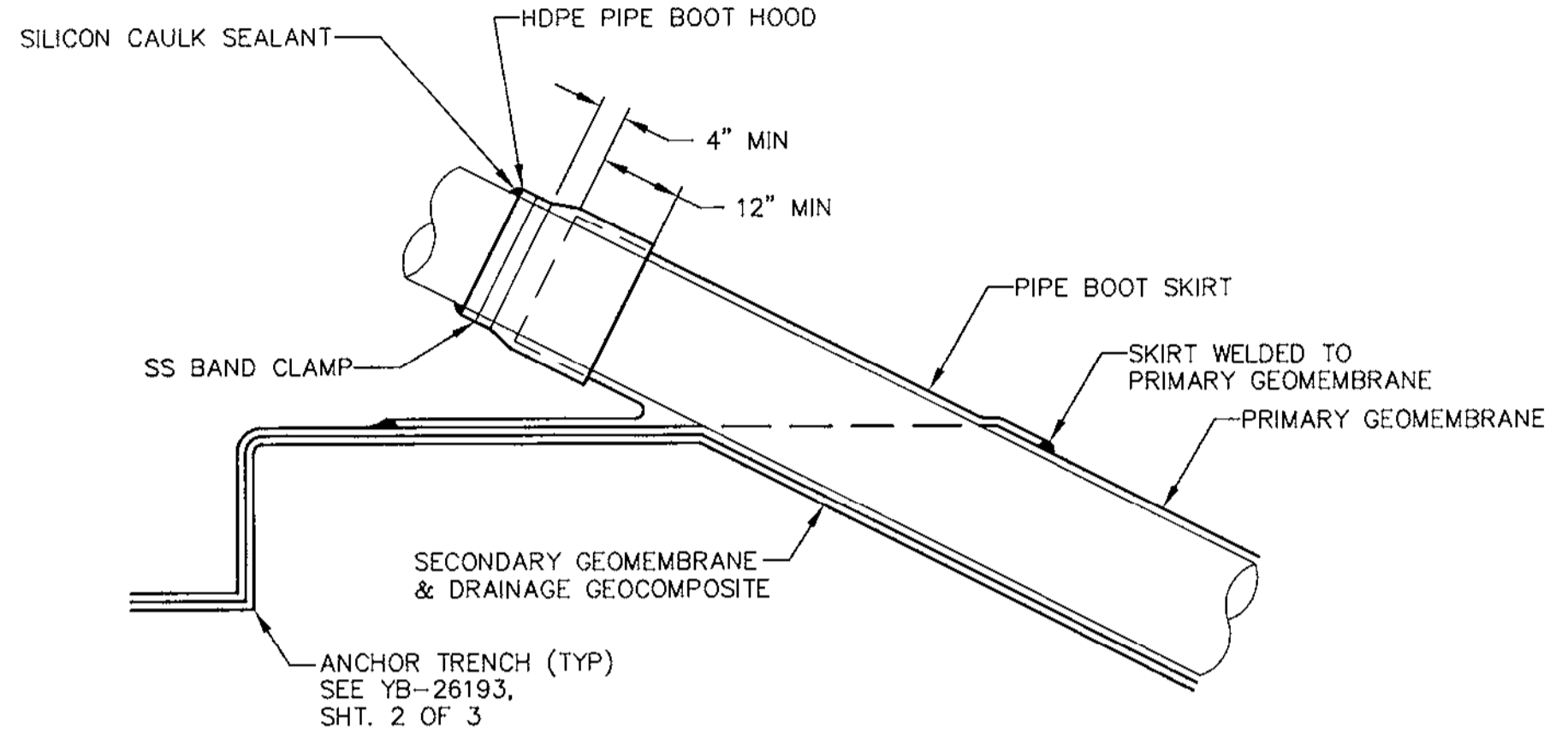
SECTION
NTS



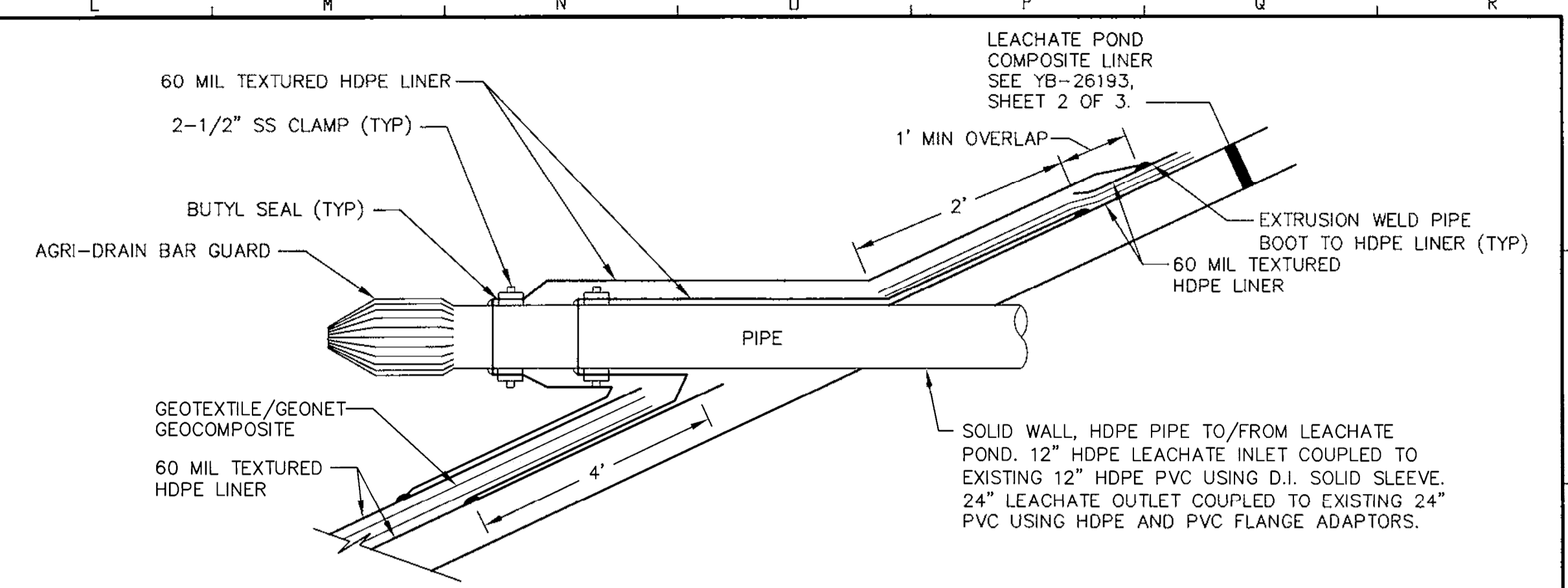
FLANGED END CAP
NTS



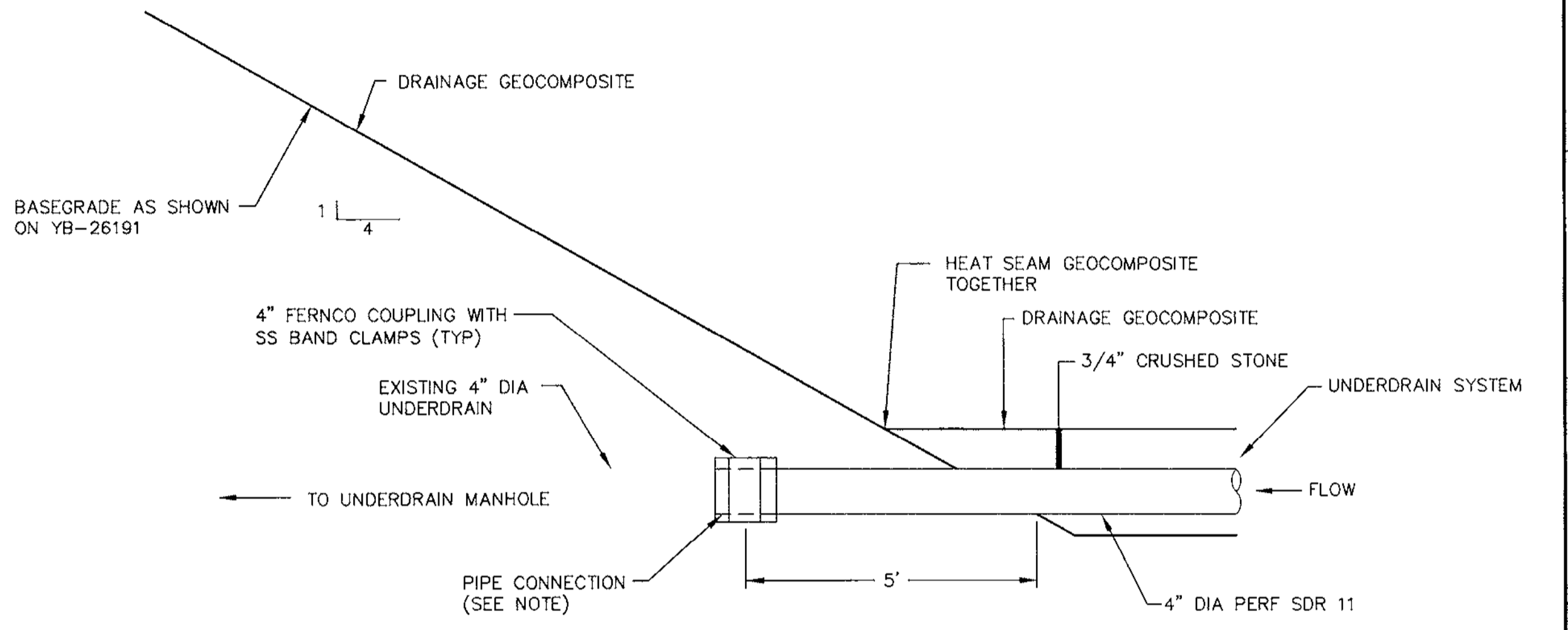
2" QUICK-DISCONNECT
NTS



LEAK DETECTION PUMP CONDUIT PIPE BOOT
NTS

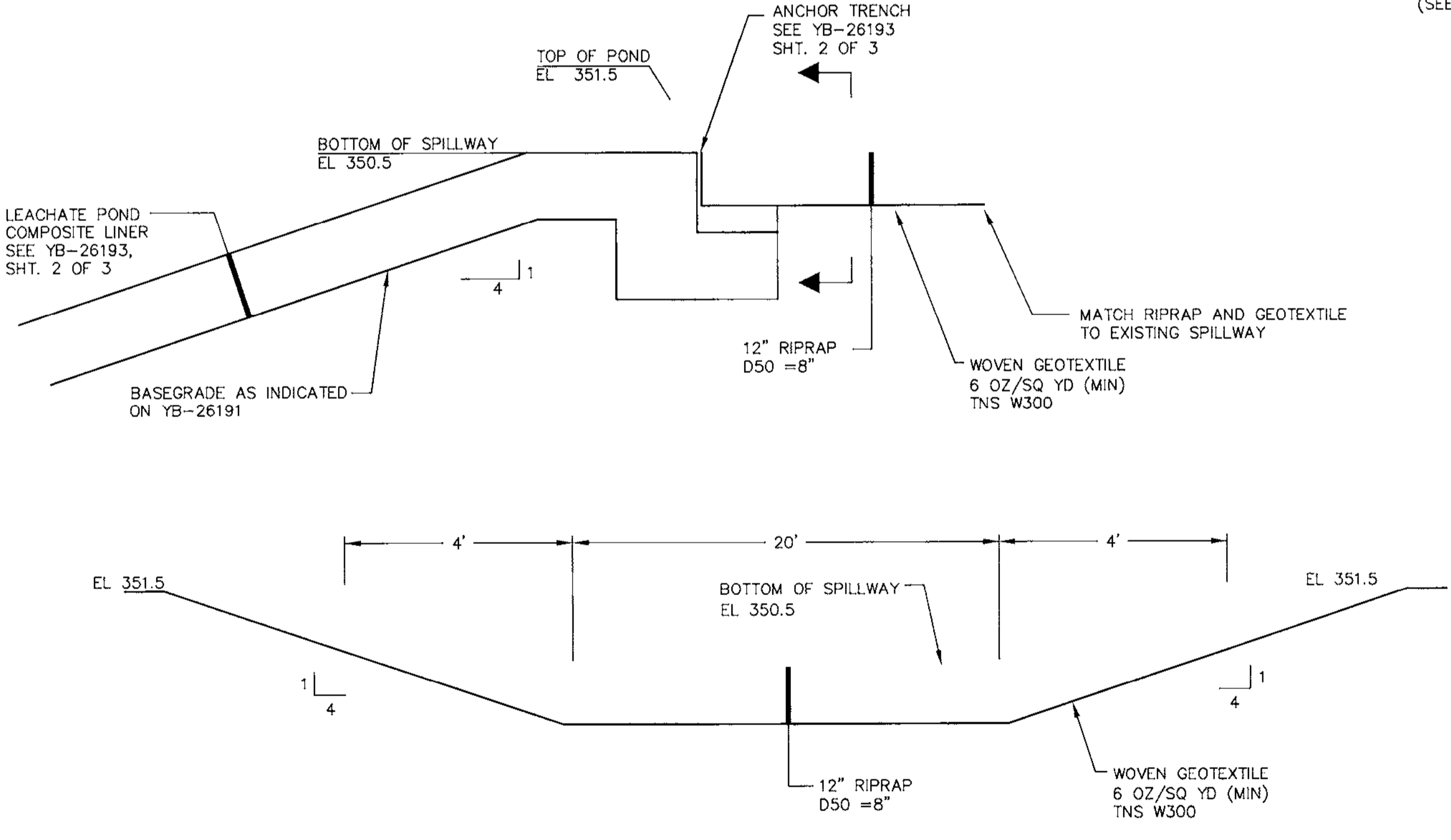


LEACHATE INLET/OUTLET PIPE
NTS

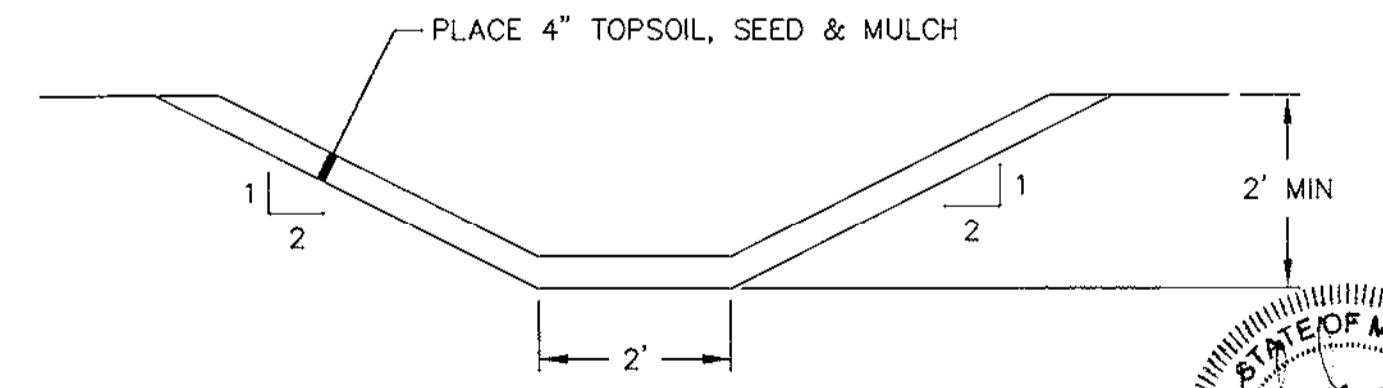


CONNECTION TO EXISTING 4" UNDERDRAIN
NTS

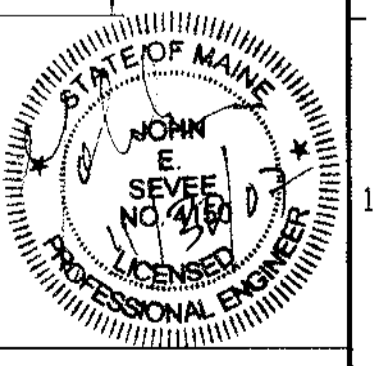
NOTE:
CUT BACK EXISTING UNDERDRAIN 5 FT INTO SLOPE TO CONNECT. MATCH EXISTING INVERT AND DRAINAGE MEDIA FROM PIPE CONNECTIONS TO BASEGRADE.



SECTION LEACHATE POND EMERGENCY SPILLWAY
NTS



DITCH REGRADE
NTS



REV.	DATE	DESCRIPTION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	11/26/07	ASB RECORD DRAWING	ASB	-	-	-	-	-	-	-	-	-	-	-
3	10/31/06	B ISSUED FOR BID	B	GHC	-	-	-	-	-	-	-	-	-	-
2	5/17/06	P REVISED PER MEDEP COMMENTS	P	GHC	-	-	-	-	-	-	-	-	-	-
1	12/9/05	P SUBMITTED TO MEDEP	P	GHC	-	-	-	-	-	-	-	-	-	-

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Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine
JOB NO. 05043.01

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	-	Preliminary
B	-	Bids
C	-	Construction
ASB	-	As Built
SCALE	-	AS NOTED

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE
CAD FILE: YB-26193 B2

EAST OPERATION
DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
SECTIONS AND DETAILS
(SHEET 3 OF 3)
JOB NO. 00000
FILE NO. 0-000-0000
LIC. NO. YB-26193

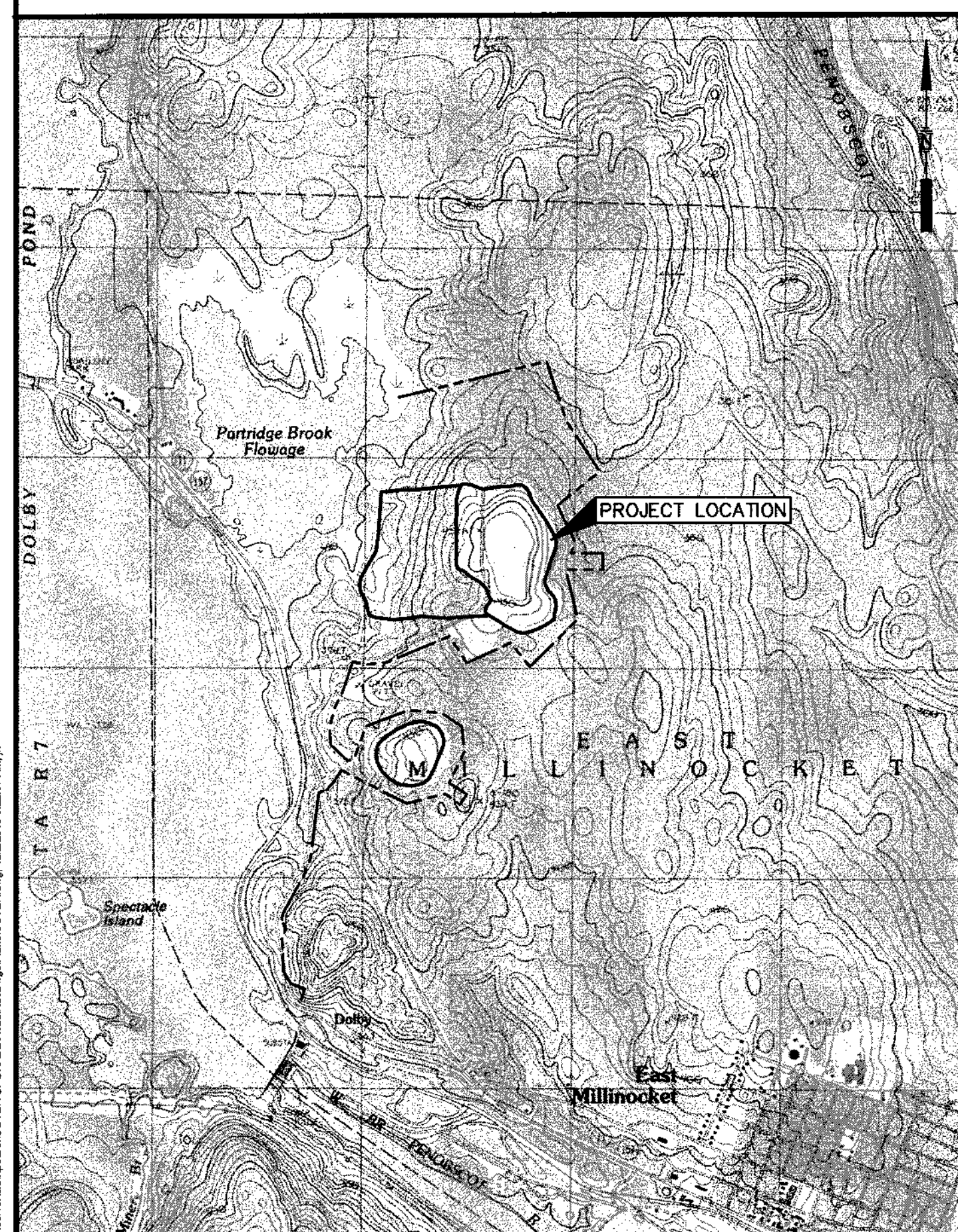
MAINE BUREAU OF GENERAL SERVICES

DOLBY LANDFILL COVER UPGRADE - PHASE 1

EAST MILLINOCKET, MAINE

TITLE	DWG NO
COVER SHEET	C-000
SYMBOLS & ABBREVIATIONS	C-100
PHASED CLOSURE PLAN	C-101
EXISTING CONDITIONS PLAN	C-102
SITE BASE GRADING PLAN (NOT INCLUDED)	C-103
SITE PLAN	C-104
GAS COLLECTION PIPING PLAN	C-105
UNDERDRAIN PIPING PLAN	C-106
SECTIONS AND DETAILS	C-300
SECTIONS AND DETAILS	C-301
SECTIONS AND DETAILS	C-302
SECTIONS AND DETAILS	C-303
LAYOUT POINT TABLES (NOT INCLUDED)	C-304
SEDIMENT POND #3 RESTORATION PLAN AND DETAILS	C-305
SECTIONS AND DETAILS	C-306

LOCATION MAP



SME

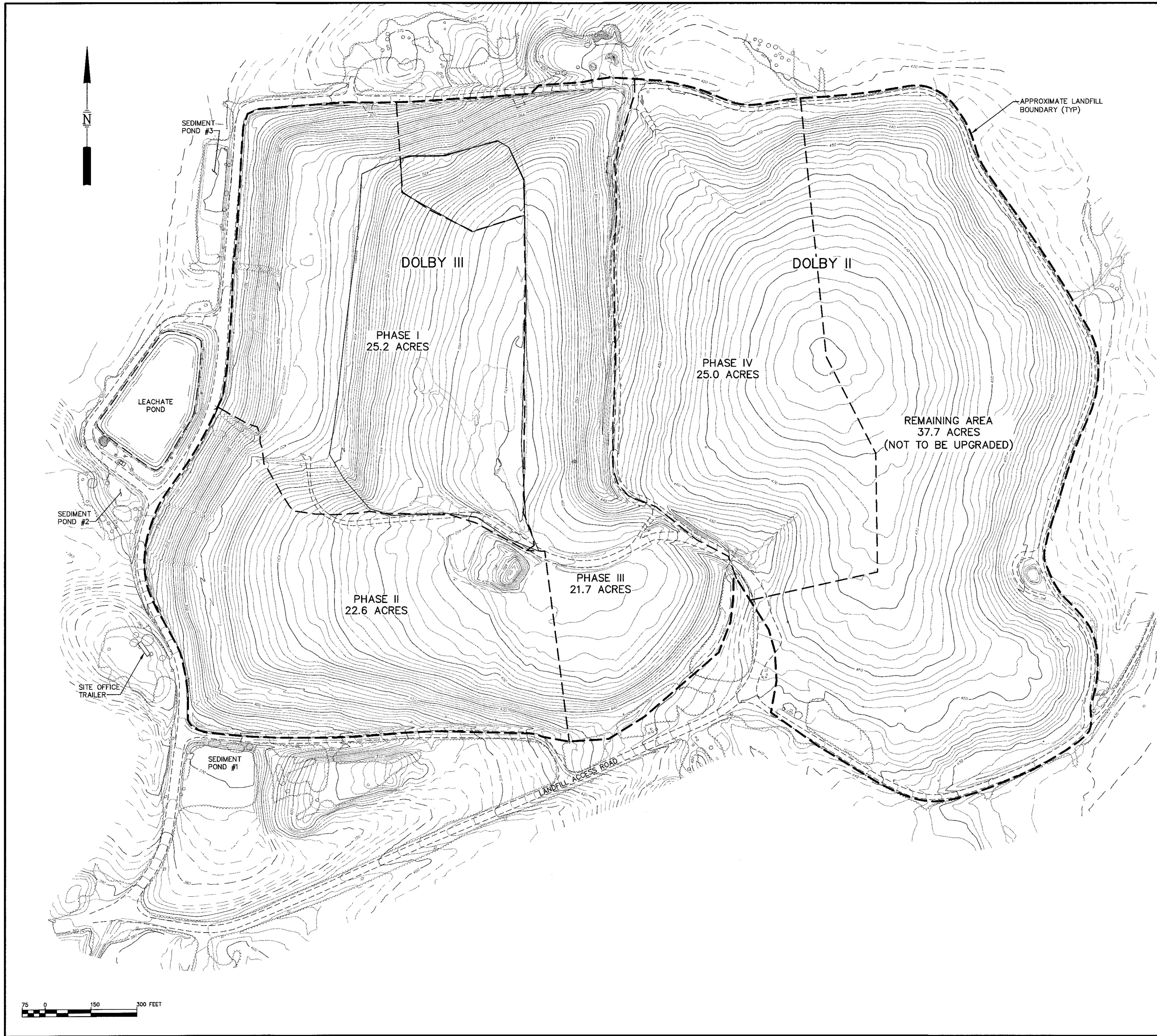
Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com



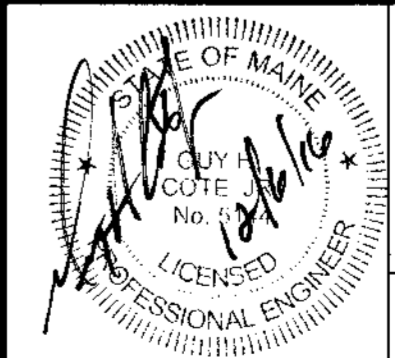
RECORD DRAWINGS



NOTES

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, NORRIDGEWOCK, MAINE. PHOTO DATE 10/15/2015. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE. VERTICAL DATUM: NAVD 1929. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. ADDITIONAL DITCH TOPOGRAPHY ALONG TOE OF LANDFILL BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 10/7/2015
3. PHASED CLOSURE AREAS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.

REV.	BY	DATE	STATUS
	MMT	11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID

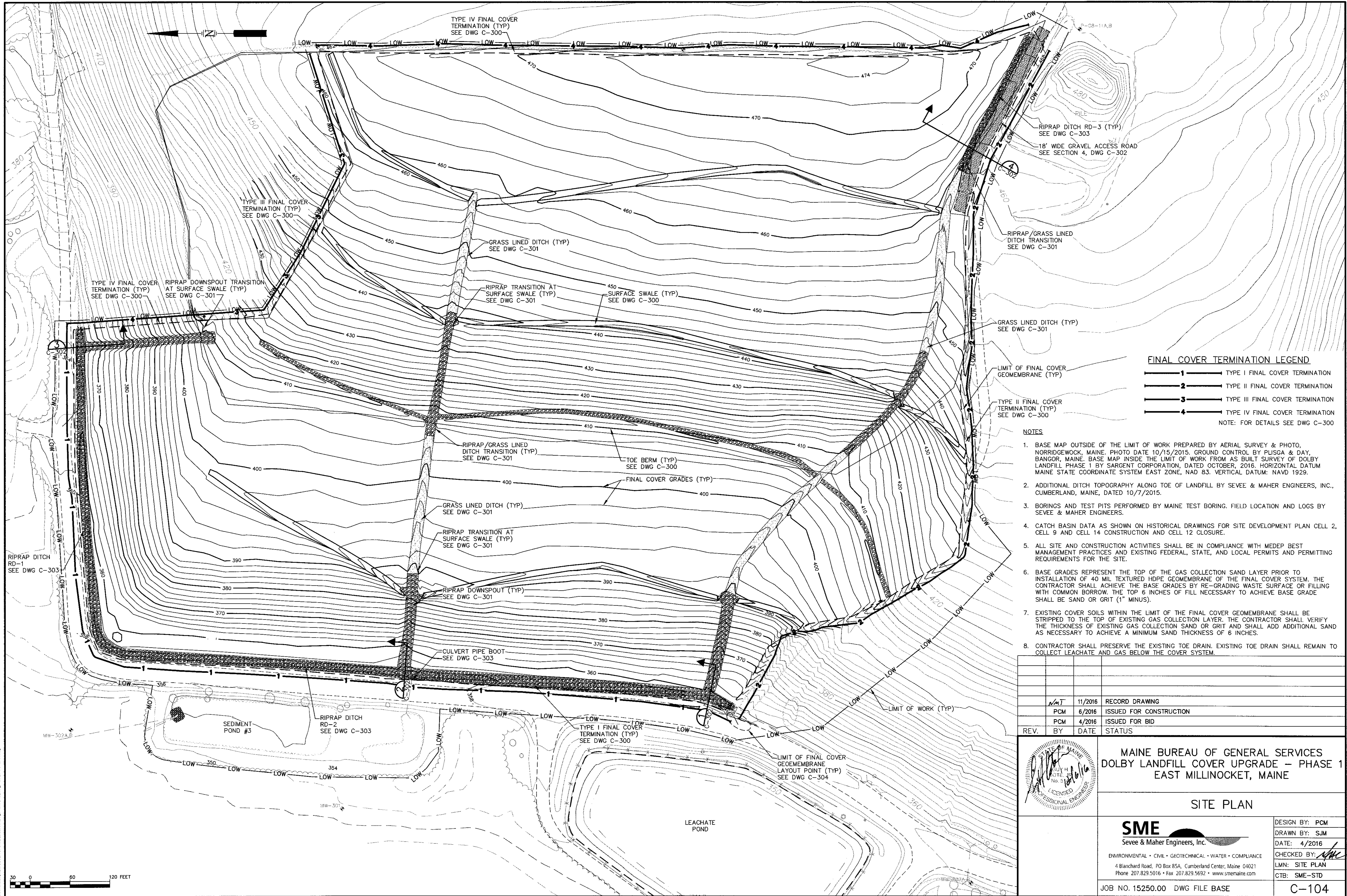


MAINE BUREAU OF GENERAL SERVICES
 DOLBY LANDFILL COVER UPGRADE – PHASE 1
 EAST MILLINOCKET, MAINE

PHASED CLOSURE PLAN

SME
 Sevee & Maher Engineers, Inc.
 ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: PCM
 DRAWN BY: SJM
 DATE: 4/2016
 CHECKED BY: *[Signature]*
 LMN: PHASED
 CTB: SME-STD



FINAL COVER TERMINATION LEGEND

1	TYPE I FINAL COVER TERMINATION
2	TYPE II FINAL COVER TERMINATION
3	TYPE III FINAL COVER TERMINATION
4	TYPE IV FINAL COVER TERMINATION

NOTE: FOR DETAILS SEE DWG C-300

- NOTES**
1. BASE MAP OUTSIDE OF THE LIMIT OF WORK PREPARED BY AERIAL SURVEY & PHOTO, NORRIDGEWOCK, MAINE. PHOTO DATE 10/15/2015. GROUND CONTROL BY PLUSGA & DAY, BANGOR, MAINE. BASE MAP INSIDE THE LIMIT OF WORK FROM AS BUILT SURVEY OF DOLBY LANDFILL PHASE 1 BY SARGENT CORPORATION, DATED OCTOBER, 2016. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. VERTICAL DATUM: NAVD 1929.
 2. ADDITIONAL DITCH TOPOGRAPHY ALONG TOE OF LANDFILL BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 10/7/2015.
 3. BORINGS AND TEST PITS PERFORMED BY MAINE TEST BORING. FIELD LOCATION AND LOGS BY SEVEE & MAHER ENGINEERS.
 4. CATCH BASIN DATA AS SHOWN ON HISTORICAL DRAWINGS FOR SITE DEVELOPMENT PLAN CELL 2, CELL 9 AND CELL 14 CONSTRUCTION AND CELL 12 CLOSURE.
 5. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.
 6. BASE GRADES REPRESENT THE TOP OF THE GAS COLLECTION SAND LAYER PRIOR TO INSTALLATION OF 40 MIL TEXTURED HDPE GEOMEMBRANE OF THE FINAL COVER SYSTEM. THE CONTRACTOR SHALL ACHIEVE THE BASE GRADES BY RE-GRADING WASTE SURFACE OR FILLING WITH COMMON BORROW. THE TOP 6 INCHES OF FILL NECESSARY TO ACHIEVE BASE GRADE SHALL BE SAND OR GRIT (1" MINUS).
 7. EXISTING COVER SOILS WITHIN THE LIMIT OF THE FINAL COVER GEOMEMBRANE SHALL BE STRIPPED TO THE TOP OF EXISTING GAS COLLECTION LAYER. THE CONTRACTOR SHALL VERIFY THE THICKNESS OF EXISTING GAS COLLECTION SAND OR GRIT AND SHALL ADD ADDITIONAL SAND AS NECESSARY TO ACHIEVE A MINIMUM SAND THICKNESS OF 6 INCHES.
 8. CONTRACTOR SHALL PRESERVE THE EXISTING TOE DRAIN. EXISTING TOE DRAIN SHALL REMAIN TO COLLECT LEACHATE AND GAS BELOW THE COVER SYSTEM.

REV.	BY	DATE	STATUS
	NMJ	11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID

MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE - PHASE 1
EAST MILLINOCKET, MAINE

SITE PLAN

SME
 Sevee & Maher Engineers, Inc.

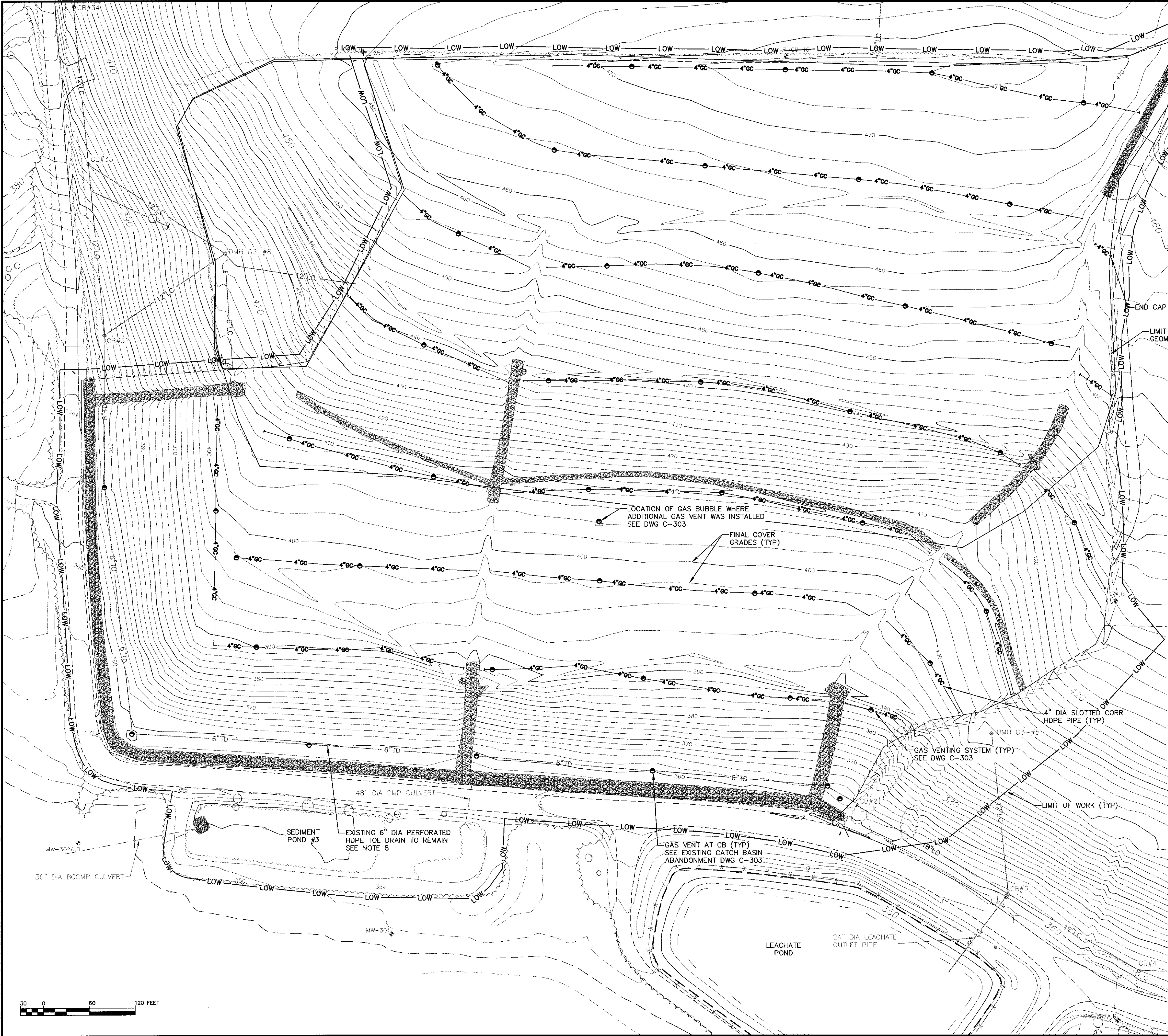
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: PCM
 DRAWN BY: SJM
 DATE: 4/2016
 CHECKED BY: *[Signature]*
 LMN: SITE PLAN
 CTB: SME-STD

JOB NO. 15250.00 DWG FILE BASE C-104

MAIN: 11/2016 11:00 AM
 11/2016 11:00 AM
 11/2016 11:00 AM

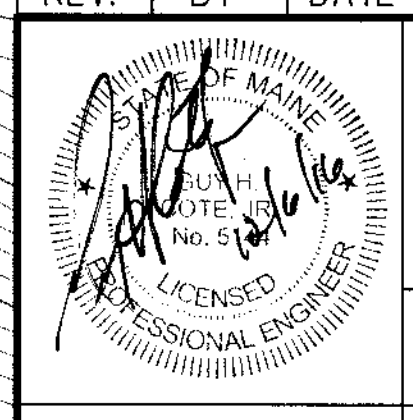
PHASE III
ACRES = 22



NOTES

1. BASE MAP OUTSIDE OF THE LIMIT OF WORK PREPARED BY AERIAL SURVEY & PHOTO, NORRIDGEWOCK, MAINE. PHOTO DATE 10/15/2015. GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE. BASE MAP INSIDE THE LIMIT OF WORK FROM AS BUILT SURVEY OF DOLBY LANDFILL PHASE 1 BY SARGENT CORPORATION, DATED OCTOBER, 2016. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. VERTICAL DATUM: NAVD 1929.
2. ADDITIONAL DITCH TOPOGRAPHY ALONG TOE OF LANDFILL BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 10/7/2015.
3. BORINGS AND TEST PITS PERFORMED BY MAINE TEST BORING. FIELD LOCATION AND LOGS BY SEVEE & MAHER ENGINEERS.
4. CATCH BASIN DATA AS SHOWN ON HISTORICAL DRAWINGS FOR SITE DEVELOPMENT PLAN CELL 2, CELL 9 AND CELL 14 CONSTRUCTION AND CELL 12 CLOSURE.
5. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.
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REV.	BY	DATE	STATUS
		11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID

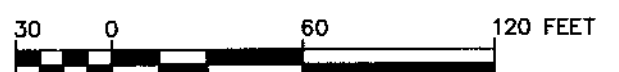


MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE - PHASE 1
EAST MILLINOCKET, MAINE

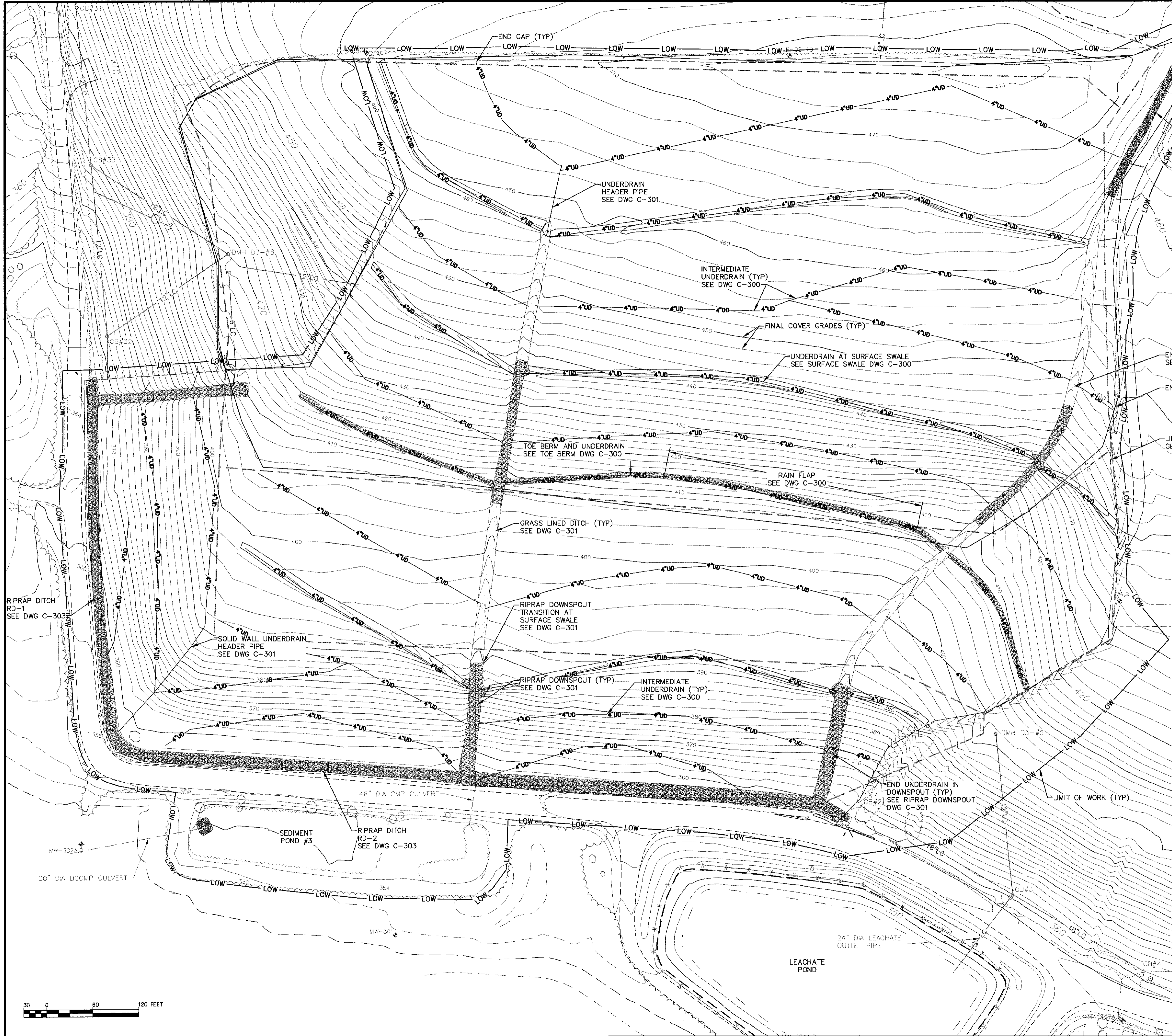
GAS COLLECTION PIPING PLAN

SME
Sevee & Maher Engineers, Inc.
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: PCM
DRAWN BY: SJM
DATE: 4/2016
CHECKED BY: [Signature]
LMN: GC-PIPING
CTB: SME-STD



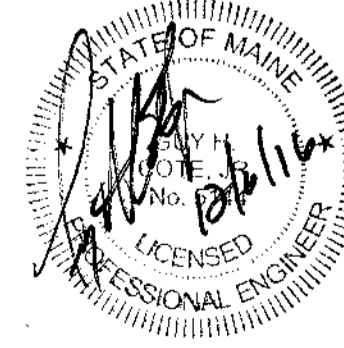
PHASE III
ACRES = 22



NOTES

1. BASE MAP OUTSIDE OF THE LIMIT OF WORK PREPARED BY AERIAL SURVEY & PHOTO, NORRIDGEWOCK, MAINE. PHOTO DATE 10/15/2015. GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE. BASE MAP INSIDE THE LIMIT OF WORK FROM AS BUILT SURVEY OF DOLBY LANDFILL PHASE 1 BY SARGENT CORPORATION, DATED OCTOBER, 2016. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. VERTICAL DATUM: NAVD 1929.
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REV.	BY	DATE	STATUS
	NRT	11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID



MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE - PHASE 1
EAST MILLINOCKET, MAINE

UNDERDRAIN PIPING PLAN

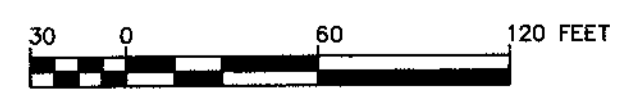
SME
Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: PCM
DRAWN BY: SJM
DATE: 4/2016
CHECKED BY: *AMC*
LMN: UD-PIPING
CTB: SME-STD

JOB NO. 15250.00 DWG FILE BASE

C-106



www.sevee.com/COVER_UPGRADE/underdrain_piping/phase3_eng_1072016_2:30:00 PM.rvt

GENERAL NOTES

1. UTILITIES AND AGENCIES

BANGOR AND AROOSTOOK RAILROAD
 MAINE DEPARTMENT OF TRANSPORTATION - DIVISION OFFICE, BANGOR, MAINE
 BANGOR HYDRO-ELECTRIC CO. - ROUTE 2, LINCOLN, MAINE
 NYNEX
 DIG SAFE

2. NOTES

-REFER TO DRAWING YB-22974 FOR MANHOLE AND STRUCTURE SCHEDULE
 -PAVEMENT AND BASES REMOVED BY THE PIPELINE CONSTRUCTION SHALL BE REPLACED TO THE SAME THICKNESS OF THE ADJACENT LAYERS.
 -ALL AREAS DISTURBED BY THE PIPELINE CONSTRUCTION AND NOT RESURFACED SHALL BE COVERED WITH "WO (2)" INCHES OF LOAM, GRADED, SEEDED, AND MULCHED.
 -THRUST RESTRAINT REQUIRED ON ALL FORCE MAIN BENDS GREATER THAN 22.5'. SEE DETAIL YB-22977

LEGEND

	EXISTING	PROPOSED
STRUCTURES		
MANHOLE		
CONTOUR		211
WETLAND EDGE		
LEACHATE LINE		
SURVEY BASELINE		
TREE LINE		
OVERHEAD TELEPHONE		O.T.
UTILITY POLE		37
TEST PIT		37
WETLAND SETBACK BUFFER		
RAILROAD		
FILL OR CUT AREA (PROFILE)		

DATUM

HORIZONTAL DATUM FROM STATION 0+00 TO STATION 167+00 IS BASED ON MAINE STATE GRID (EAST ZONE) 1927 NORTH AMERICAN DATUM.
 VERTICAL DATUM FROM STATION 0+00 TO STATION 167+00 IS BASED ON NGVD83

HORIZONTAL AND VERTICAL CONTROL

SQUAW BAY CONTROL POINT #1 - BRASS DISK IN TOP OF CONCRETE MANHOLE ON WESTERLY SIDE OF LEACHATE POND.
 COORDINATES: NORTH 66463.732
 EAST 473628.762
 ELEVATION: 348.58
 IDENTIFICATION: "MON #1"

SQUAW BAY CONTROL POINT #2 - BRASS DISK IN TOP OF CONCRETE STATION ON SOUTHERLY SIDE OF LEACHATE POND.
 COORDINATES: NORTH 662871.733
 EAST 473745.058
 ELEVATION: 356.99
 IDENTIFICATION: "MON #2"

SQUAW BAY CONTROL POINT #3 - BRASS DISK IN TOP OF CONCRETE CHIMNEY ON NORTHWEST CORNER OF FIBER RECYCLE BUILDING.
 COORDINATES: NORTH 653349.302
 EAST 473333.704
 ELEVATION: 315.24
 IDENTIFICATION: CONTROL MON 7054

VERTICAL DATUM CONVERSION FACTOR
 TO CONVERT NGVD (29) TO "WELL DATUM, ADD 1.59".
 TO CONVERT WELL DATUM TO NGVD (29) SUBTRACT 1.59".

TEMPORARY BENCHMARKS (TBM)
 TBM PL-13 - TOP OF WALLER - ELEV. 306.56 - STA. 31+00, 45'.
 TBM SCOUT RD - TOP OF GRIND STONE - ELEV. 309.70 - STA. 61+35, 50'.
 TBM GREENWOOD BLDG - FAINT MARK ON BLDG ELEV. 307.41 - STA. 167+00 105'.



NO.	DATE	DESCRIPTION	BY	CHK.	APP.
C	3/96	RECORD DRAWING	MSB	PBT	
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT	22846
B	4/95	ISSUED FOR BIDS	MSB	PBT	22846
P	4/25	PRELIMINARY CONSTRUCTION ISSUE	MSB	JRK	22846

SQUAW BAY CORP
 CONSULTING ENGINEERS

PO. BOX 164 CUMBERLAND CENTER, MAINE 04112

SRV: JRK 9/94
 CHK: PBT 10/94
 CORR:
 APP'D:
 ISSUE CHECK
 P - Plan, S - Bids
 W - W/T, C - Const.
 CMT: N.T.S.

BOWATER
 Great Northern Paper

EAST OPERATION
 LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION
 STA. 0+00 TO STA. 167+00
 8" FORCE MAIN
 INDEX, SYMBOLS, AND GENERAL NOTES

JOB NO. 22846
 ENG. REG. NO.
 FILE NO. 2-092-4783

YB-22960
 SHEET 1 OF 1

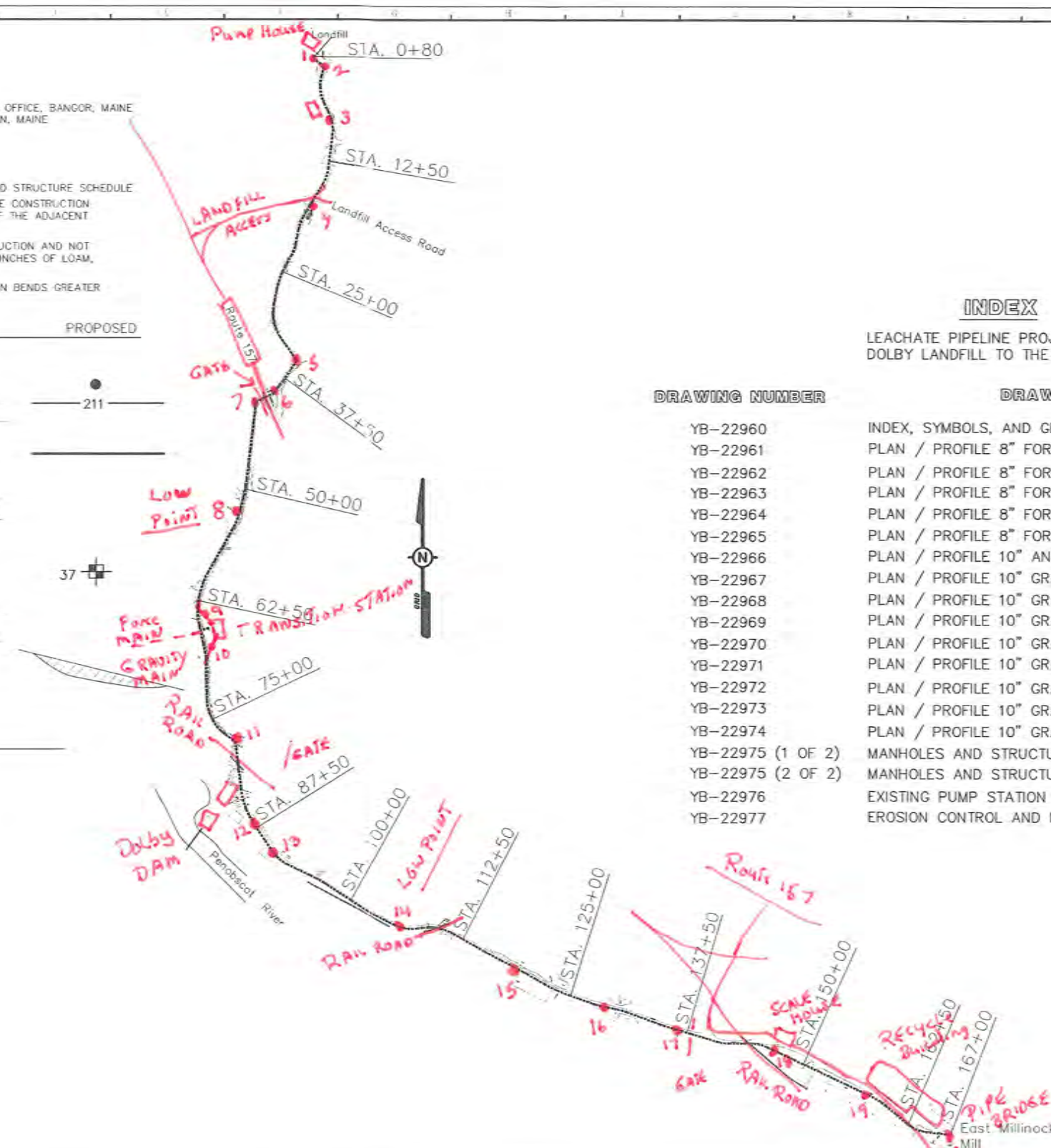
INDEX

LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION

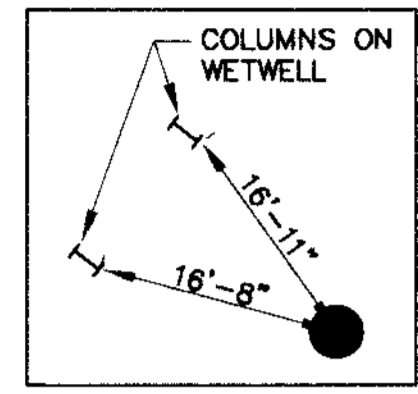
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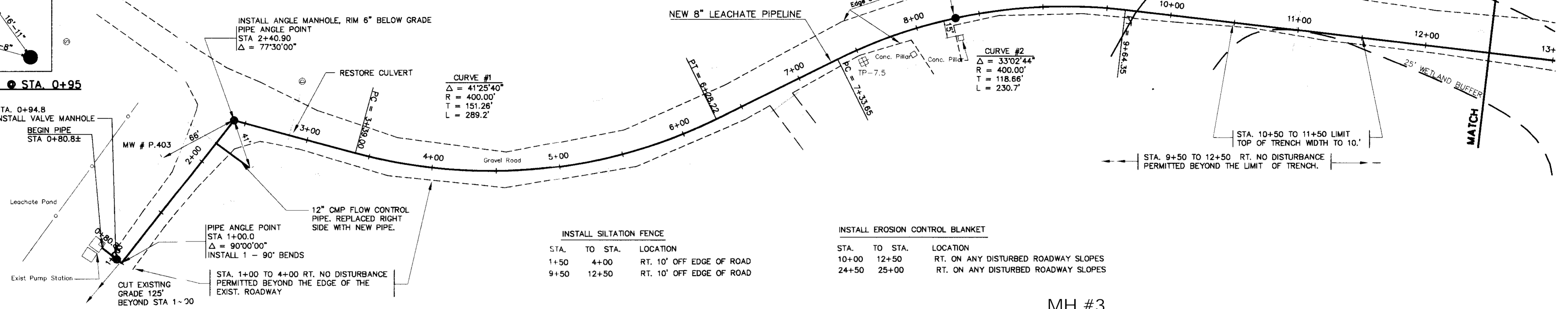
YB-22960	INDEX, SYMBOLS, AND GENERAL NOTES
YB-22961	PLAN / PROFILE 8" FORCE MAIN - STA. 0+80 TO STA. 12+50
YB-22962	PLAN / PROFILE 8" FORCE MAIN - STA. 12+50 TO STA. 25+00
YB-22963	PLAN / PROFILE 8" FORCE MAIN - STA. 25+00 TO STA. 37+50
YB-22964	PLAN / PROFILE 8" FORCE MAIN - STA. 37+50 TO STA. 50+00
YB-22965	PLAN / PROFILE 8" FORCE MAIN - STA. 50+00 TO STA. 62+50
YB-22966	PLAN / PROFILE 10" AND 12" GRAVITY TRANSITION - STA. 62+50 TO STA. 75+00
YB-22967	PLAN / PROFILE 10" GRAVITY SECTION STA. 75+00 TO STA. 87+50
YB-22968	PLAN / PROFILE 10" GRAVITY SECTION STA. 87+50 TO STA. 100+00
YB-22969	PLAN / PROFILE 10" GRAVITY SECTION STA. 100+00 TO STA. 112+50
YB-22970	PLAN / PROFILE 10" GRAVITY SECTION STA. 112+50 TO STA. 125+00
YB-22971	PLAN / PROFILE 10" GRAVITY SECTION STA. 125+00 TO STA. 137+50
YB-22972	PLAN / PROFILE 10" GRAVITY SECTION STA. 137+50 TO STA. 150+00
YB-22973	PLAN / PROFILE 10" GRAVITY SECTION STA. 150+00 TO STA. 162+50
YB-22974	PLAN / PROFILE 10" GRAVITY SECTION STA. 162+50 TO STA. 167+00
YB-22975 (1 OF 2)	MANHOLES AND STRUCTURES - MISCELLANEOUS DETAILS
YB-22975 (2 OF 2)	MANHOLES AND STRUCTURES - MISCELLANEOUS DETAILS
YB-22976	EXISTING PUMP STATION MODIFICATIONS - PLANS AND DETAILS
YB-22977	EROSION CONTROL AND MISCELLANEOUS DETAILS



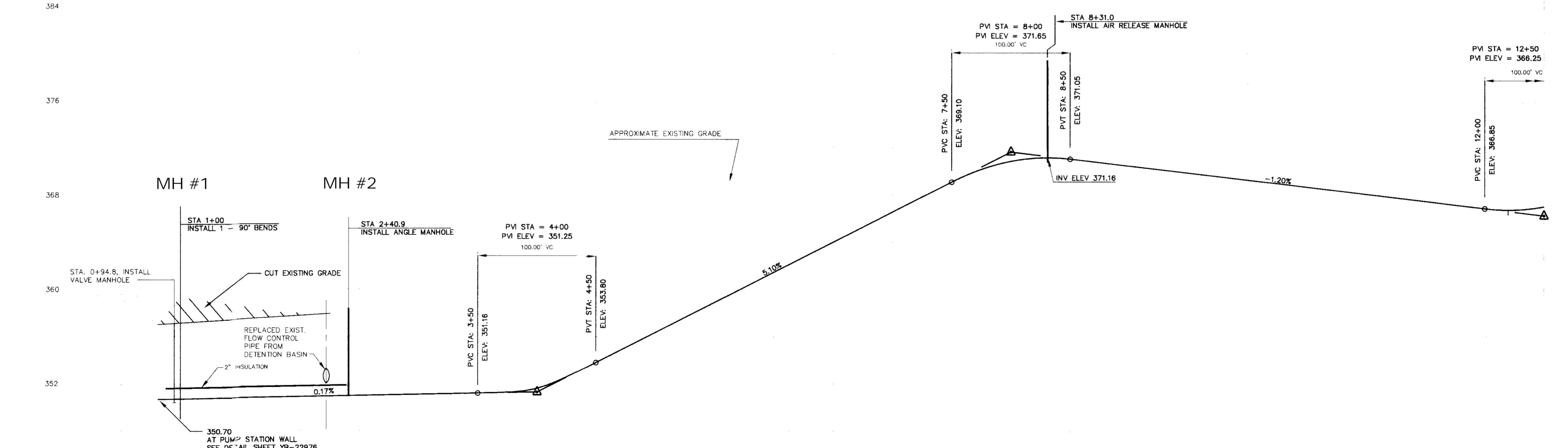
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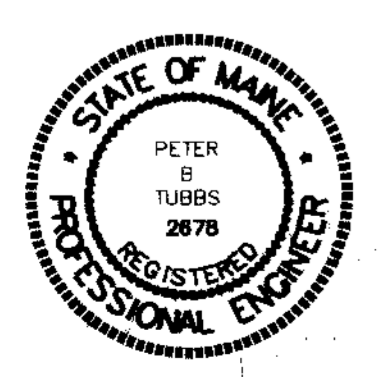
TIES TO MH @ STA. 0+95



MH #3



STATION	ELEVATION
0+00	348.00
1+00	350.73
2+00	350.82
3+00	350.91
4+00	351.08
5+00	351.16
6+00	351.87
7+00	353.80
8+00	356.35
9+00	358.90
10+00	361.45
11+00	364.00
12+00	366.55
13+00	369.10
14+00	370.86
15+00	371.05
16+00	369.85
17+00	369.85
18+00	369.25
19+00	368.65
20+00	368.05
21+00	367.45
22+00	366.85
23+00	367.01



NO.	DESCRIPTION	DATE	BY	CHECKED
YB-14801	DOLBY 3 LANDFILL, INTERPRETIVE GEOLOGIC PROFILES			
YB-14800	DOLBY 3 LANDFILL, PHREATIC SURFACE MAP			
YB-14799	DOLBY 3 LANDFILL, BEDROCK SURFACE TOPOGRAPHY MAP	C	3/96	REC'D/DRAWING
YB-14797	DOLBY 3 LANDFILL, SITE DEVELOPMENT	C	6/95	ISSUED FOR CONSTRUCTION
YB-14796-A	DOLBY 3 LANDFILL, SITE DEVELOPMENT DETAILS	B	4/95	ISSUED FOR BIDS
YB-14795	DOLBY 3 LANDFILL, LEACHATE POND DETAILS	P	4/95	PRELIMINARY CONSTRUCTION ISSUE
SB-14888	DOLBY LANDFILL LEACHATE PUMP STATION, PLANS & SECTIONS	P	12/94	SUBMITTED W/ PERMIT APPLICATION

SQUAW BAY CORP
CONSULTING ENGINEERS

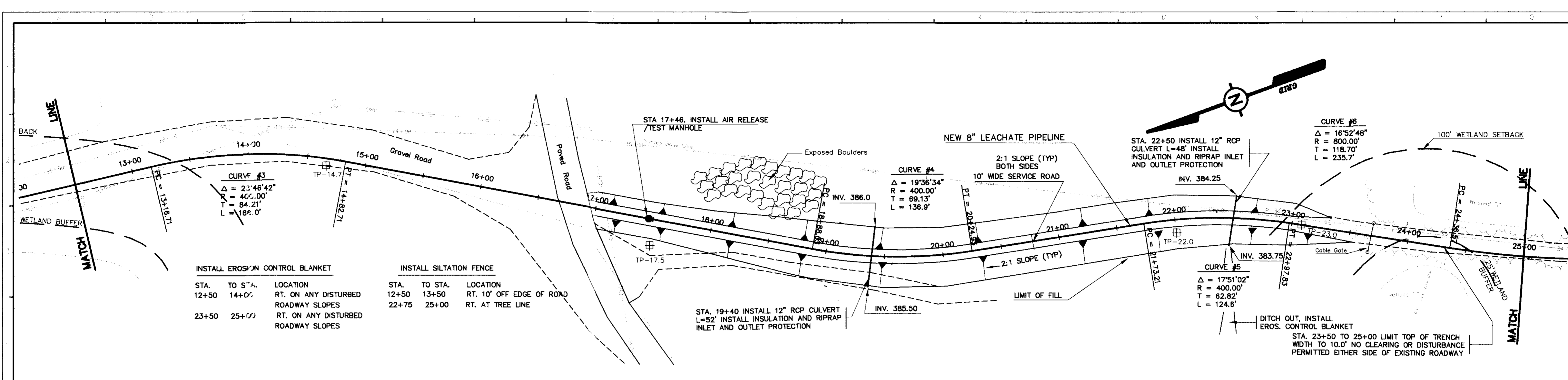
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CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - M/T.O.	C - Const.	
1"=40H; 1"=4'V		

BOWATER

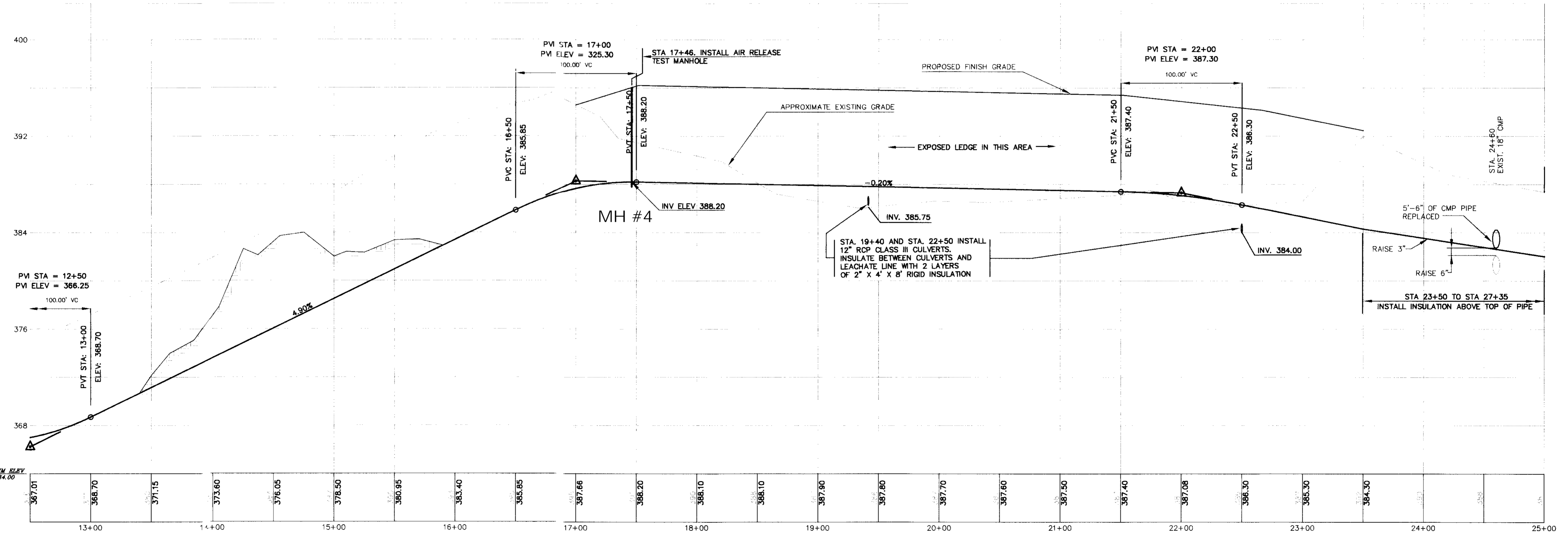
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 0+80.8 TO STA. 12+50
8" FORCE MAIN
PLAN & PROFILE

JOB NO. 22846
ENG. REG. NO. YB-22961
FILE NO. 2-092-4783
SHEET 1 OF 1

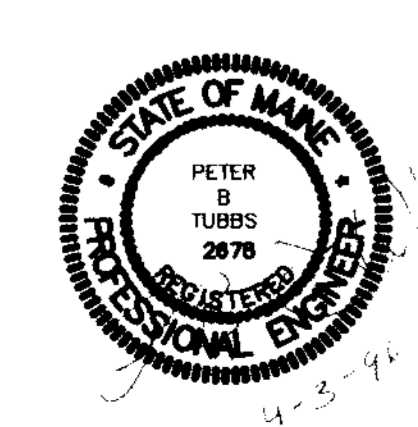
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INSTALL EROSION CONTROL BLANKET			INSTALL SILTATION FENCE		
STA.	TO STA.	LOCATION	STA.	TO STA.	LOCATION
12+50	14+00	RT. ON ANY DISTURBED ROADWAY SLOPES	12+50	13+50	RT. 10' OFF EDGE OF ROAD
23+50	25+00	RT. ON ANY DISTURBED ROADWAY SLOPES	22+75	25+00	RT. AT TREE LINE



STATION	ELEVATION
12+50	367.01
13+00	366.70
13+50	371.15
14+00	373.60
14+50	376.05
15+00	378.50
15+50	380.95
16+00	383.40
16+50	385.85
17+00	387.66
17+50	386.20
18+00	388.10
18+50	386.10
19+00	387.90
19+50	387.80
20+00	387.70
20+50	387.60
21+00	387.50
21+50	387.40
22+00	387.08
22+50	386.30
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23+50	384.30
24+00	383.30
24+50	382.30
25+00	381.30



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

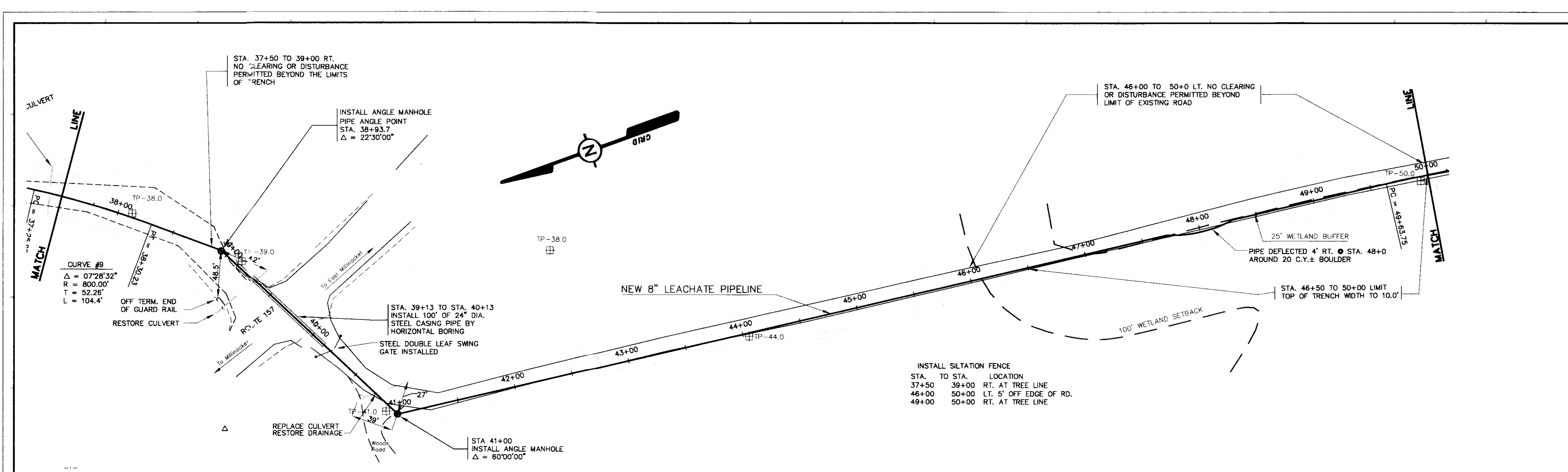
P.O. BOX 88A CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mod. I.D.	C - Const.
Scale: 1"=40'H; 1"=4'V		

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 12+50 TO STA. 25+00
8" FORCE MAIN
PLAN & PROFILE

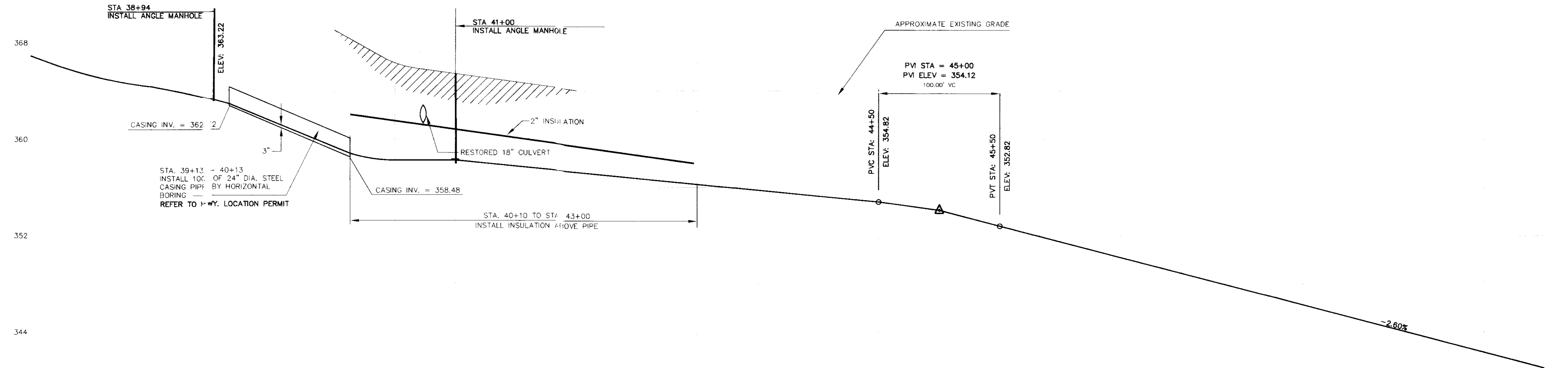
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SHEET 1 OF 1

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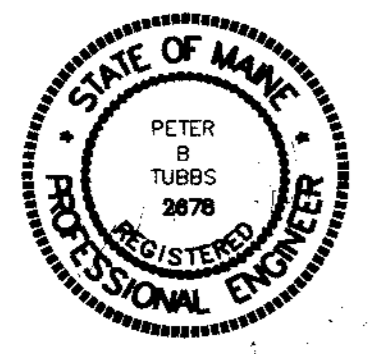


MH #6

MH #7



Station	Elevation
38+00	
39+00	
40+00	
41+00	358.22
42+00	357.75
43+00	357.25
44+00	356.76
45+00	356.27
46+00	355.79
47+00	355.30
48+00	354.82
49+00	354.34
50+00	344.12



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	REVISION DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
P	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

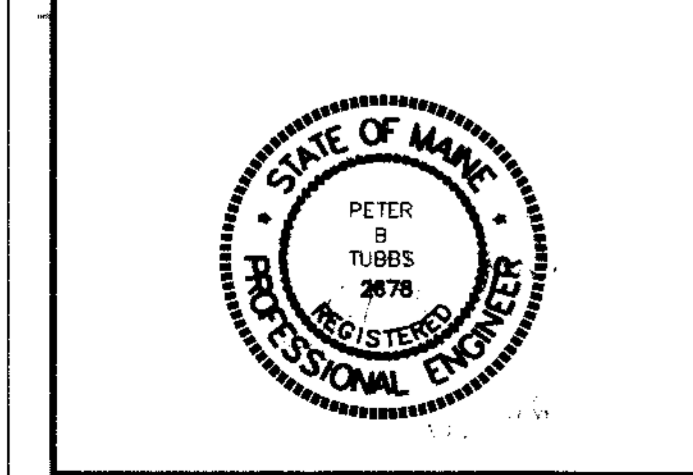
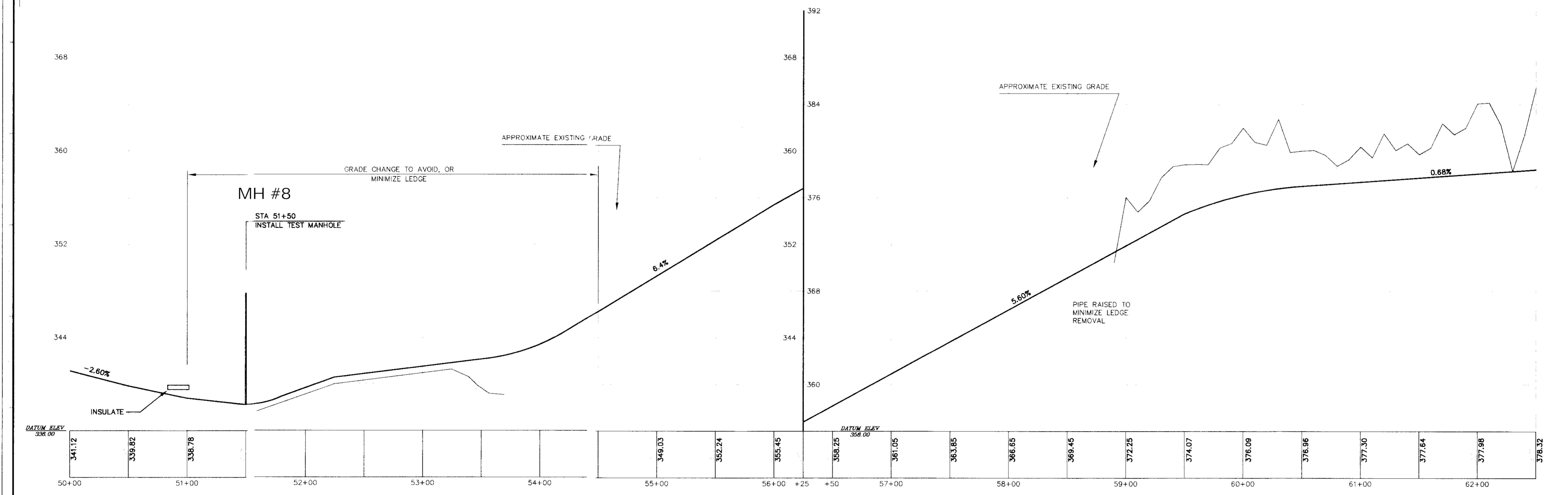
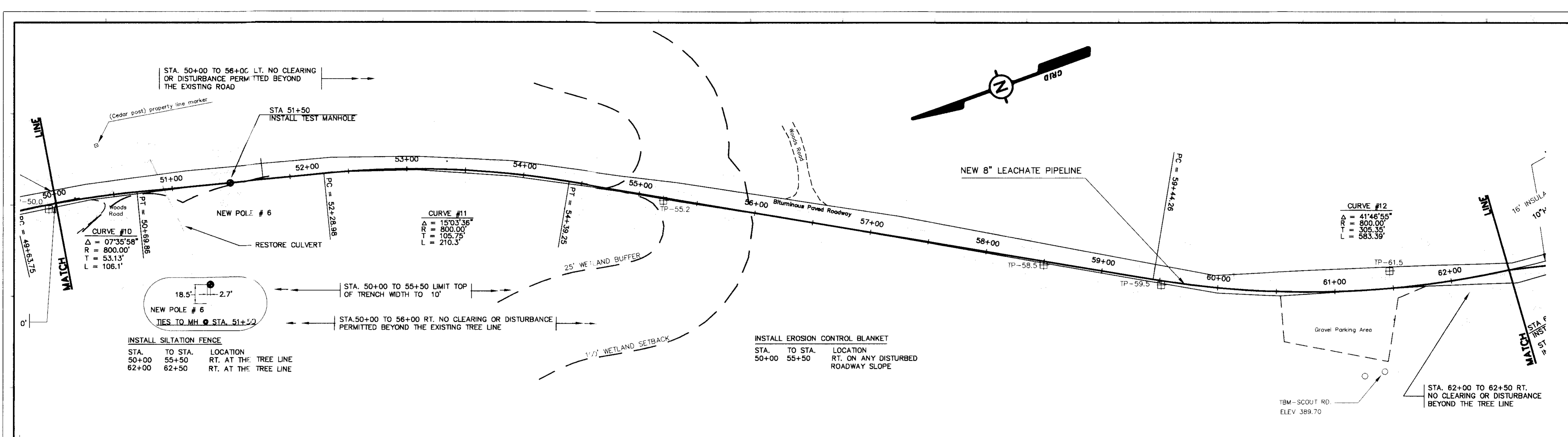
100 W. CLIMBERLAND ST. PORTLAND, MAINE 04102

DRN	JRK	9/94
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CORR		
APPVD		
ISSUE CODE		
P	Prelim	B - Bids
M	Mt. T.O.	C - Const.
1"=40'H; 1"=4'V		

BOWATER
Water Infrastructure Group

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 37+50 TO STA. 50+00
8" FORCE MAIN
PLAN & PROFILE

JOB NO. 22846
ENG. REG. NO. YB-22964
FILE NO. 2-092-4783
SHEET 1 OF 1



NO.	DATE	DESCRIPTION	BY	CHECKED
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B	4/95	ISSUED FOR BIDS	MSB	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	Prelim B - Bids	
M	Mtl T.O. C - Const.	
1"=40'H; 1"=4'V		

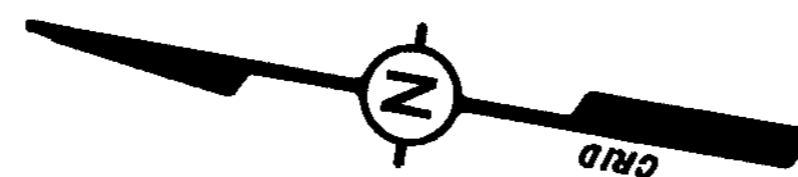
BOWATER

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 50+00 TO STA. 62+50
8" FORCE MAIN
PLAN & PROFILE

JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

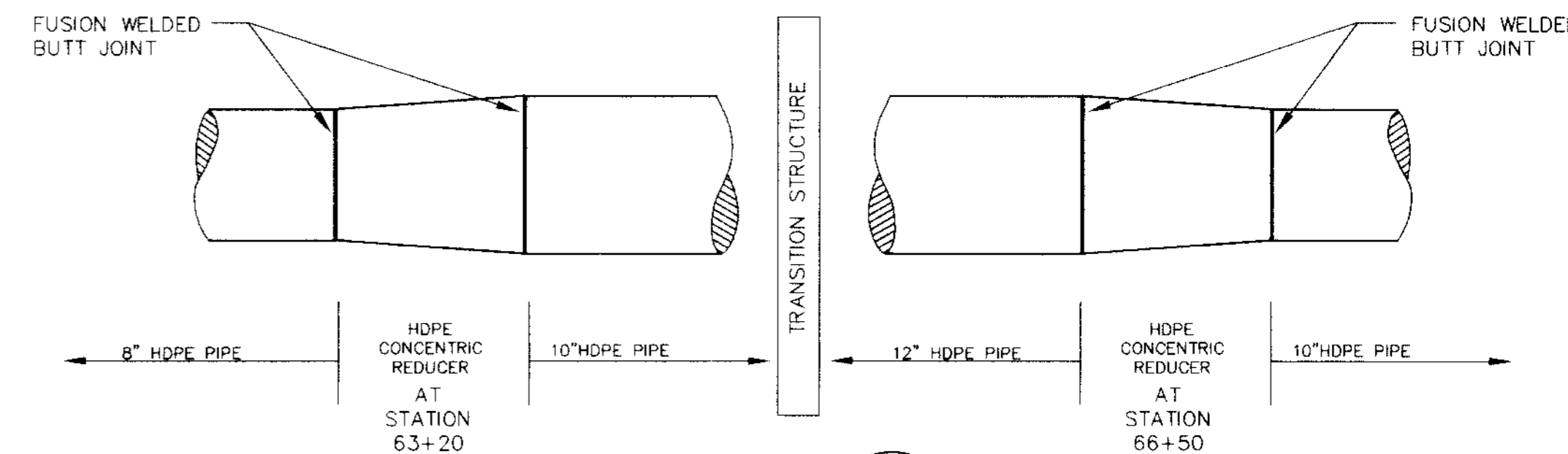
YB-22965
SHEET 1 OF 1

94-22-A-40 9409/MSJ Rev. 40" 4 10 4 11 1995



TRANSITION STATION

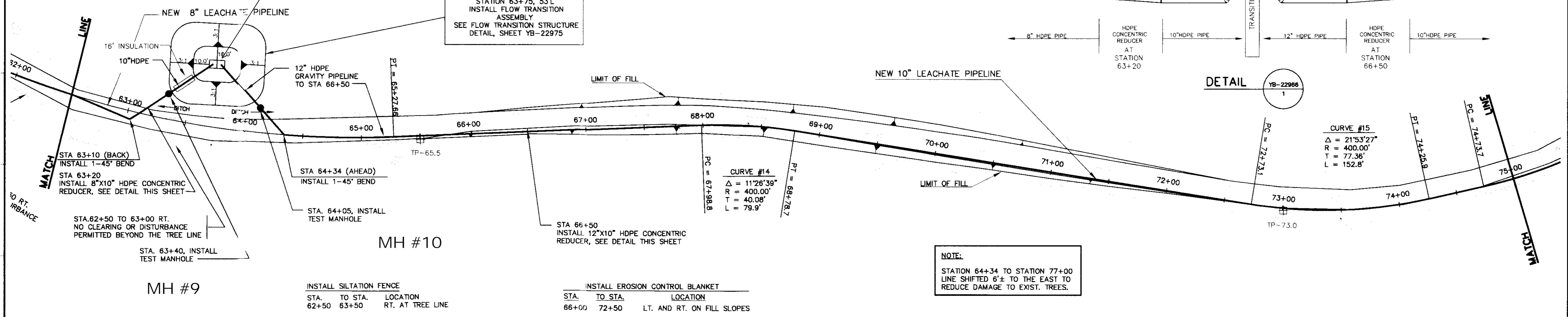
STATION 63+75, 53'L
INSTALL FLOW TRANSITION
ASSEMBLY
SEE FLOW TRANSITION STRUCTURE
DETAIL, SHEET YB-22975



DETAIL YB-22966
1

CURVE #15
Δ = 21°53'27"
R = 400.00'
T = 77.36'
L = 152.8'

CURVE #14
Δ = 11°26'39"
R = 400.00'
T = 40.08'
L = 79.9'

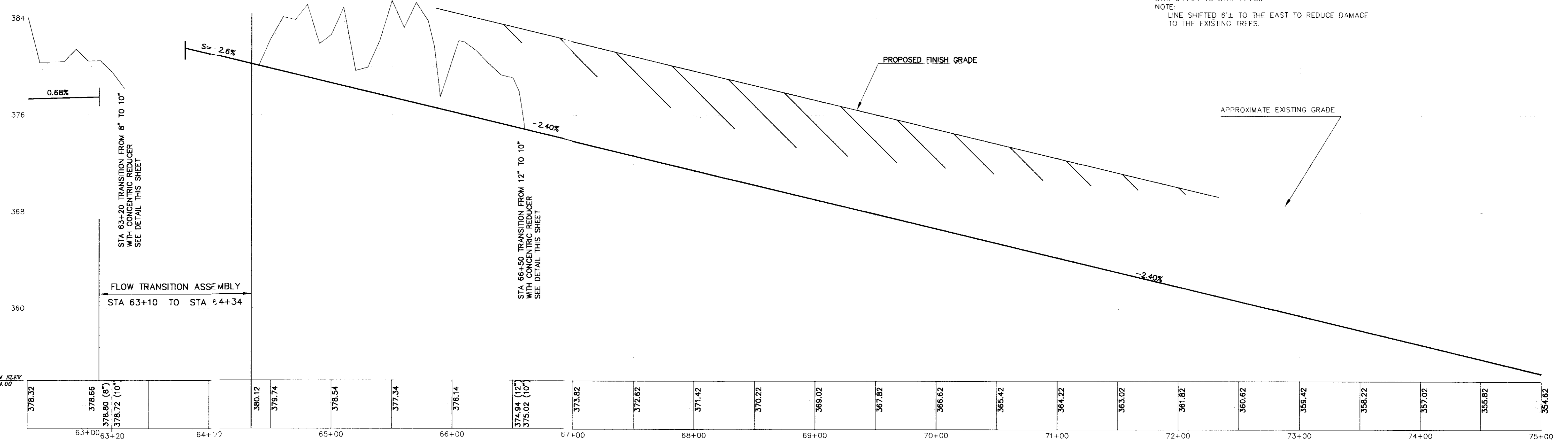


NOTE:
STATION 64+34 TO STATION 77+00
LINE SHIFTED 6'± TO THE EAST TO
REDUCE DAMAGE TO EXIST. TREES.

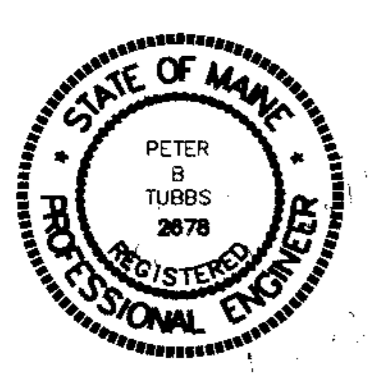
STA. 64+64 TO STA. 77+00
NOTE:
LINE SHIFTED 6'± TO THE EAST TO REDUCE DAMAGE
TO THE EXISTING TREES.

INSTALL SILTATION FENCE
STA. TO STA. LOCATION
62+50 63+50 RT. AT TREE LINE

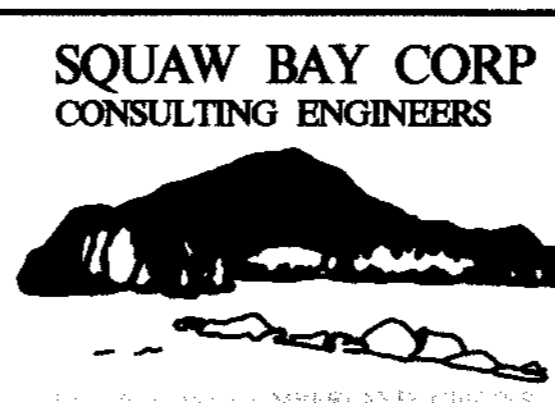
INSTALL EROSION CONTROL BLANKET
STA. TO STA. LOCATION
66+00 72+50 LT. AND RT. ON FILL SLOPES



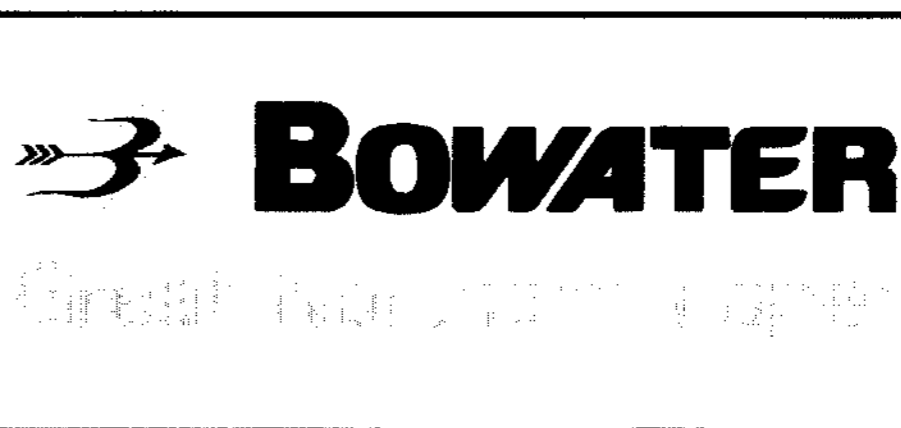
STATION	ELEVATION
63+00	378.32
63+20	378.66
63+20	378.80 (8")
63+20	378.72 (10")
64+00	380.12
64+00	378.74
65+00	378.54
65+00	377.34
66+00	376.14
66+00	374.94 (12")
66+00	375.02 (10")
67+00	373.82
68+00	372.62
68+00	371.42
69+00	370.22
69+00	369.02
70+00	367.82
70+00	366.62
71+00	365.42
71+00	364.22
72+00	363.02
72+00	361.82
73+00	360.62
73+00	359.42
74+00	358.22
74+00	357.02
75+00	355.82
75+00	354.62



NO.	DATE	DESCRIPTION	BY	CHK
C	3/96	RECEIVED DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

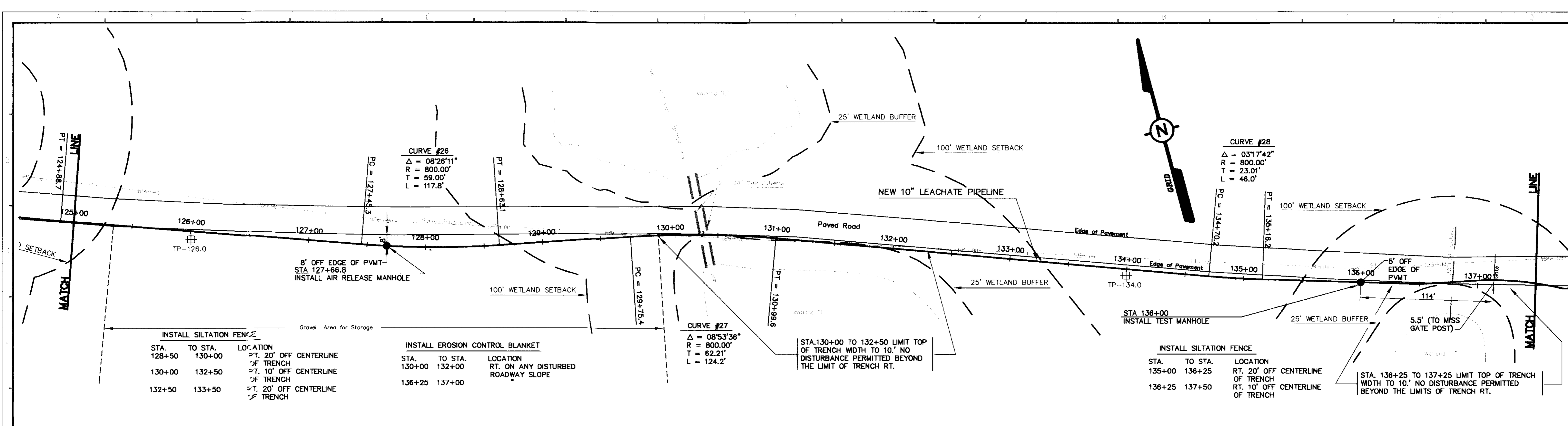


DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mod T.O.	C - Const.
1"=40'H; 1"=4'V		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 62+50 TO STA. 75+00
8" FORCE MAIN/12" & 10" GRAVITY TRANSITION
PLAN & PROFILE
JOB NO. 22846
ENG. REG. NO. 2-092-4783
FILE NO. 2-092-4783
YB-22966
SHEET 1 OF 1

94 22966-A-09400-102 11-90 2 10/24/91



INSTALL SILTATION FENCE

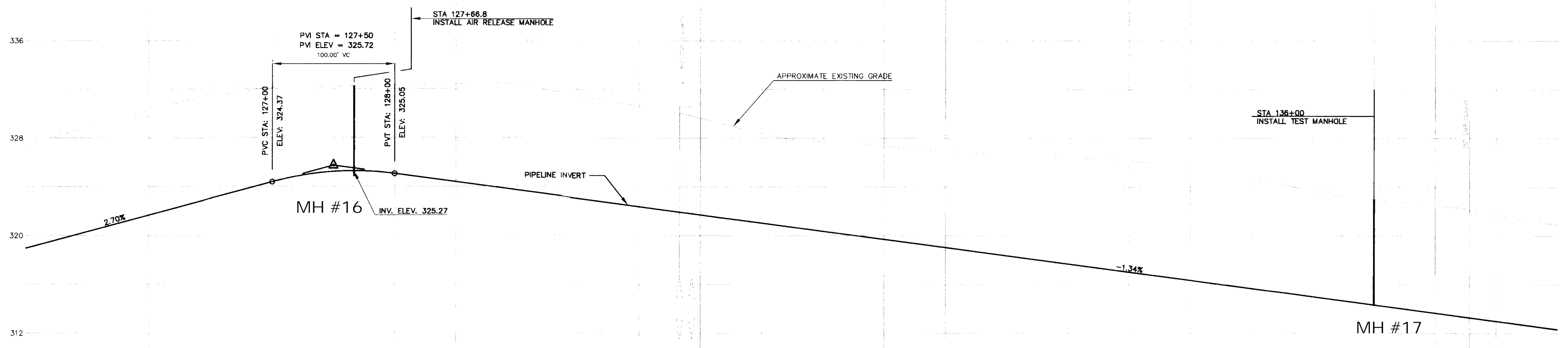
STA.	TO STA.	LOCATION
128+50	130+00	RT. 20' OFF CENTERLINE OF TRENCH
130+00	132+50	RT. 10' OFF CENTERLINE OF TRENCH
132+50	133+50	RT. 20' OFF CENTERLINE OF TRENCH

INSTALL EROSION CONTROL BLANKET

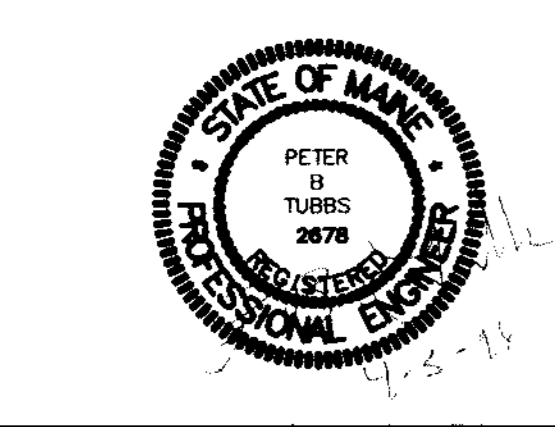
STA.	TO STA.	LOCATION
130+00	132+00	RT. ON ANY DISTURBED ROADWAY SLOPE
136+25	137+00	

INSTALL SILTATION FENCE

STA.	TO STA.	LOCATION
135+00	136+25	RT. 20' OFF CENTERLINE OF TRENCH
136+25	137+50	RT. 10' OFF CENTERLINE OF TRENCH



STATION	ELEVATION
125+00	318.97
126+00	320.32
127+00	321.67
128+00	323.02
129+00	324.37
130+00	325.72
131+00	325.05
132+00	324.38
133+00	323.71
134+00	323.04
135+00	322.37
136+00	321.70
137+00	321.03
138+00	320.36
139+00	319.69
140+00	319.02
141+00	318.35
142+00	317.68
143+00	317.01
144+00	316.34
145+00	315.67
146+00	315.00
147+00	314.33
148+00	313.66
149+00	312.99
150+00	312.32



NO.	DATE	DESCRIPTION	BY	CHK.
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

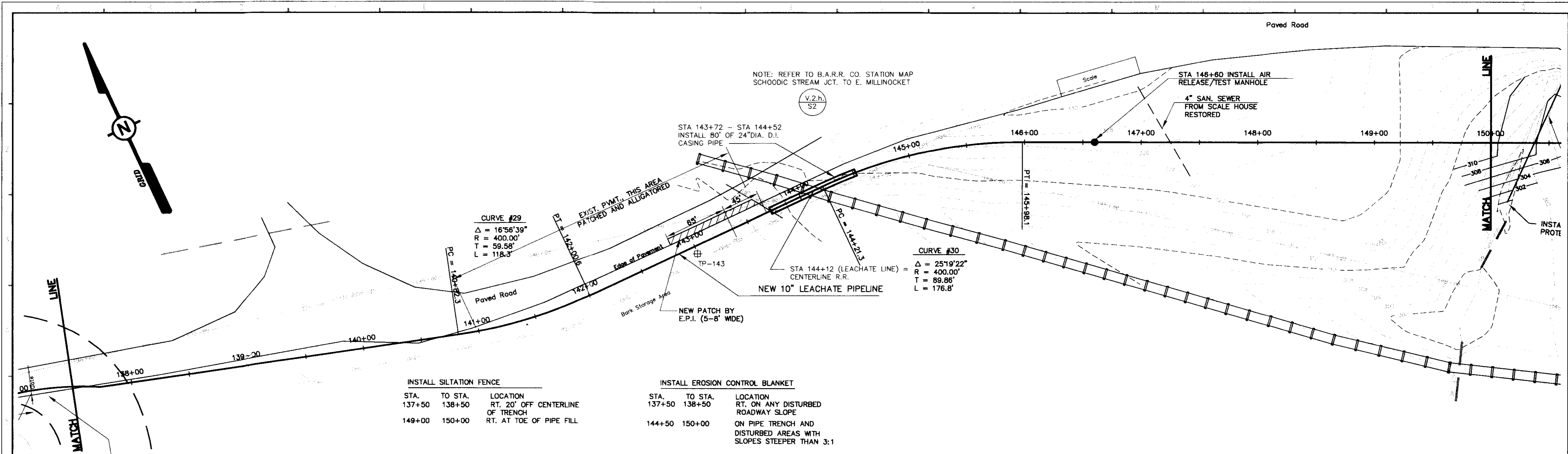
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mt. T.O.	C - Const.
SCALE 1"=40'; 1"=4'V		

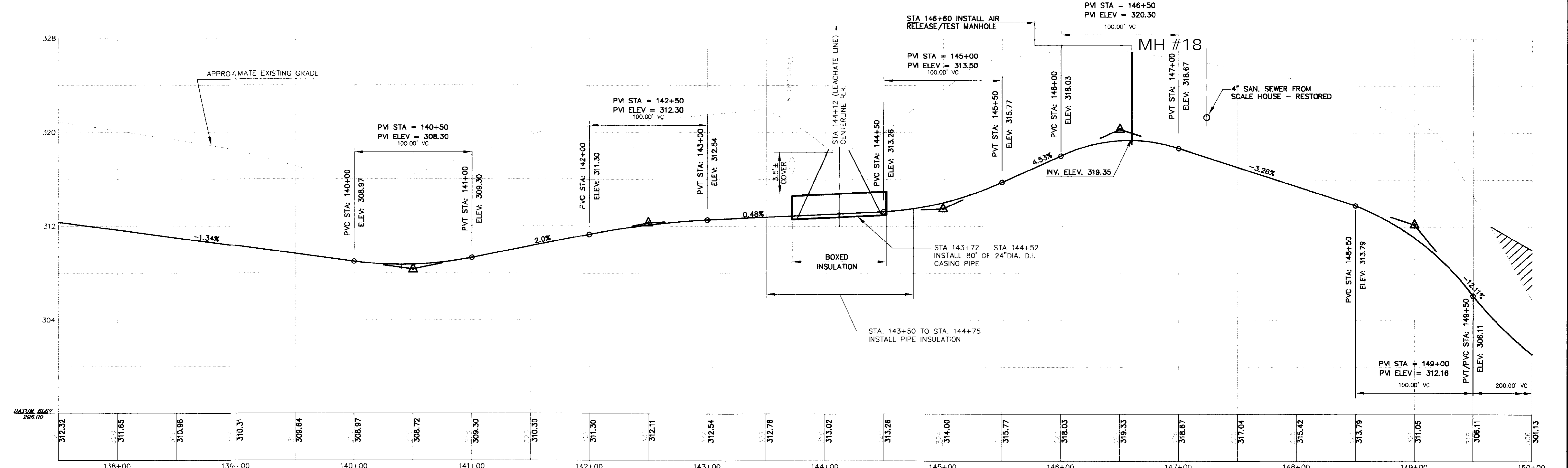
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 125+00 TO STA. 137+50
10' GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REG. NO. YB-22971
FILE NO. 2-092-4783
SHEET 1 OF 1

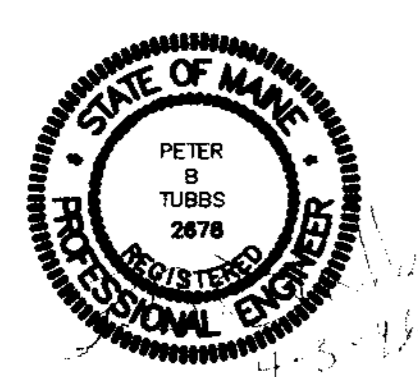
3: 54-227\ALAD 9402.M12 Thu Mar 26 15:04:11 1998



INSTALL SILTATION FENCE			INSTALL EROSION CONTROL BLANKET		
STA.	TO STA.	LOCATION	STA.	TO STA.	LOCATION
137+50	138+50	RT. 20' OFF CENTERLINE OF TRENCH	144+50	150+00	RT. ON ANY DISTURBED ROADWAY SLOPE
149+00	150+00	RT. AT TOE OF PIPE FILL			ON PIPE TRENCH AND DISTURBED AREAS WITH SLOPES STEEPER THAN 3:1



STATION	ELEVATION
137+00	312.32
138+00	311.85
139+00	310.96
140+00	310.31
141+00	309.64
142+00	308.97
143+00	308.72
144+00	309.30
145+00	310.30
146+00	311.30
147+00	312.11
148+00	312.54
149+00	312.78
150+00	313.02
151+00	313.26
152+00	314.00
153+00	315.77
154+00	318.03
155+00	319.33
156+00	318.67
157+00	317.04
158+00	315.42
159+00	313.79
160+00	311.05
161+00	306.11
162+00	301.13



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P	3/15/95	SUBMITTED FOR R.R. APPROVAL	PBT	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86 CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mt. T.O.	C - Const.
1"=40' HORIZ, 1"=4' VERT		

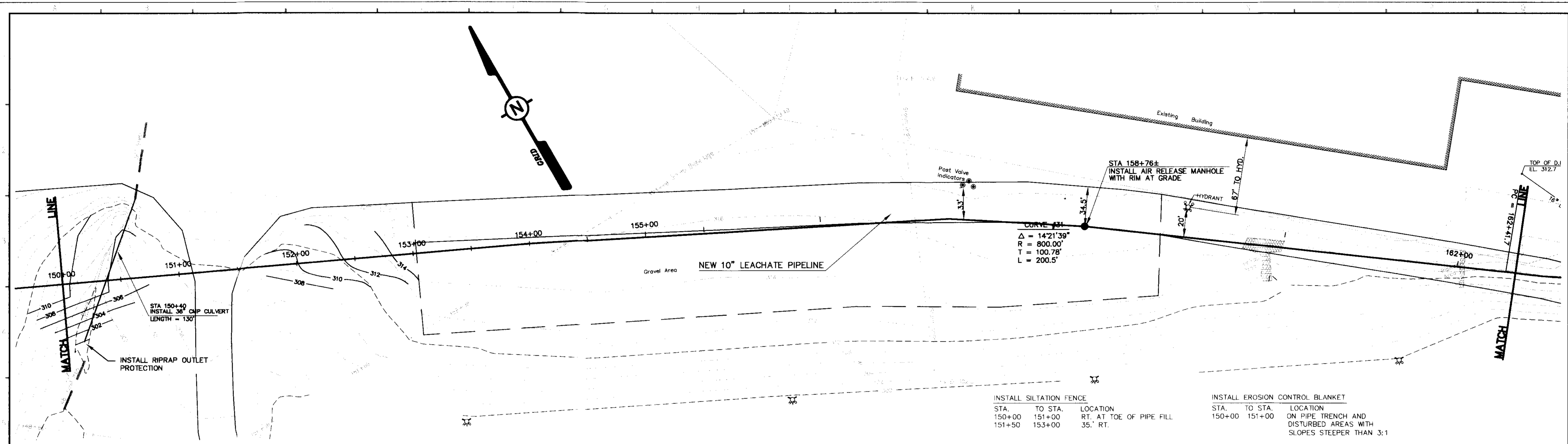
BOWATER
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 137+50 TO STA. 150+00
10' GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

YB-22972
SHEET 1 OF 1

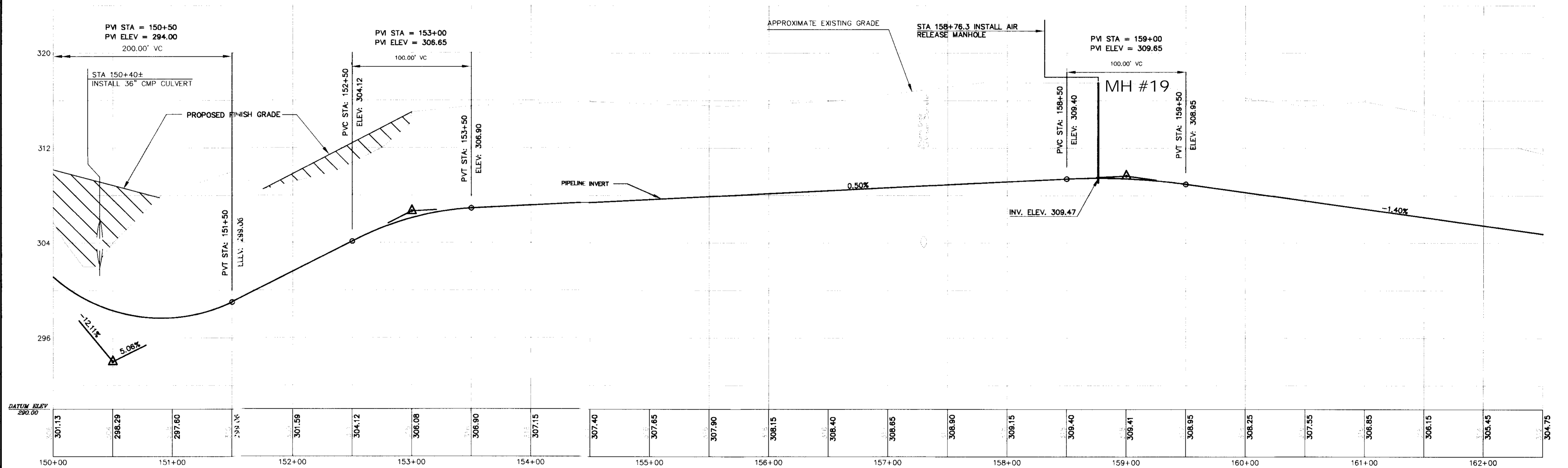
34-227-ACAD-9402-PL2 Thu Mar 26 15:25:33 1996



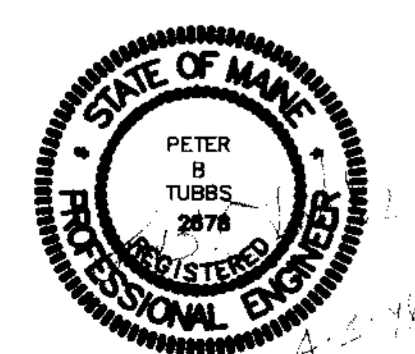
INSTALL SILTATION FENCE
 STA. TO STA. LOCATION
 150+00 151+00 RT. AT TOE OF PIPE FILL
 151+50 153+00 35.' RT.

INSTALL EROSION CONTROL BLANKET
 STA. TO STA. LOCATION
 150+00 151+00 ON PIPE TRENCH AND
 DISTURBED AREAS WITH
 SLOPES STEEPER THAN 3:1

CURVE DATA
 $\Delta = 142'13.9"$
 $R = 800.00'$
 $T = 100.78'$
 $L = 200.5'$



STATION	150+00	151+00	152+00	153+00	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00	162+00													
ELEVATION	301.13	296.29	297.60	299.16	301.59	304.12	306.08	306.90	307.15	307.40	307.65	307.90	308.15	308.40	308.65	308.90	309.15	309.40	309.41	308.95	308.25	307.55	306.85	306.15	305.45	304.75



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	MSB	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
 CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		

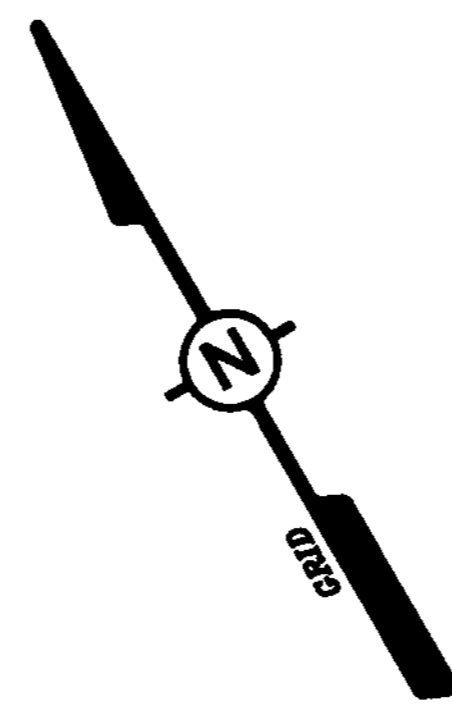
BOWATER
 Great Northern Paper

EAST OPERATION
 LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION
 STA. 150+00 TO STA. 162+50
 10' GRAVITY SECTION
 PLAN & PROFILE

JOB NO. 22846
 ENG. REQ. NO.
 FILE NO. 2-092-4783

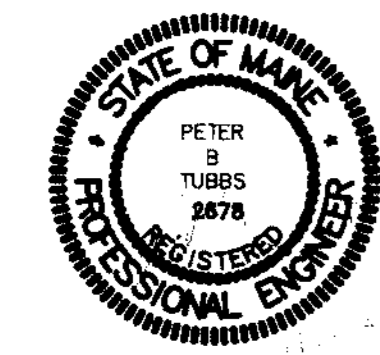
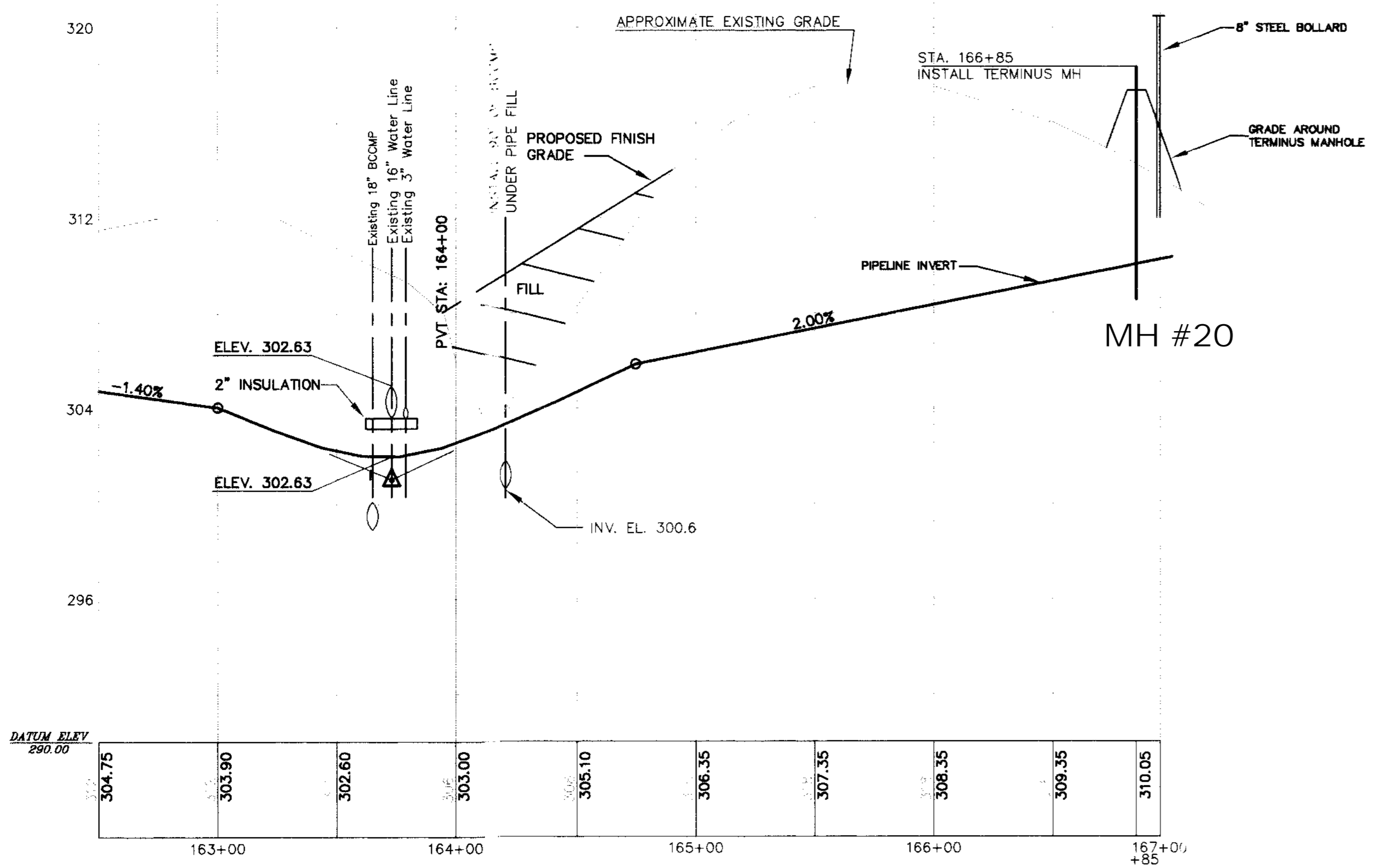
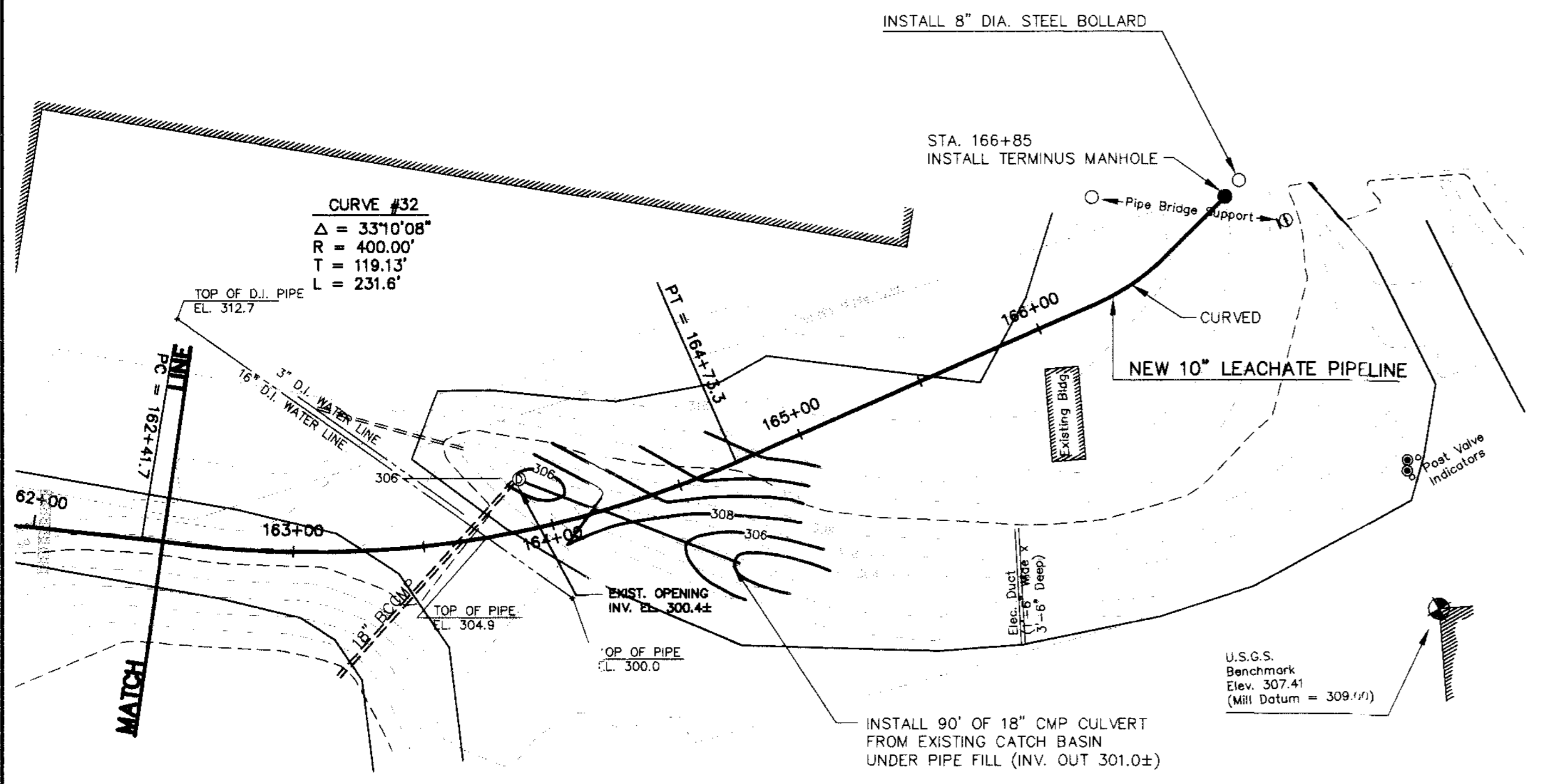
YB-22973
 SHEET 1 OF 1

D:\394-227\ACAD\9402\1012 Thu Mar 26 11:34:14 1996



MANHOLE AND STRUCTURE SCHEDULE

STATION	TYPE	SIZE	DESCRIPTION
0+95	CIRCULAR	8' DIA.	GATE AND CHECK VALVE
2+41	CIRCULAR	6' DIA.	ANGLE
8+31	CIRCULAR	6' DIA.	AIR RELEASE
17+46	CIRCULAR	8' DIA.	AIR RELEASE / TEST
34+96	CIRCULAR	8' DIA.	ANGLE / TEST
38+94	CIRCULAR	4' DIA.	ANGLE
41+00	CIRCULAR	4' DIA.	ANGLE
51+50	CIRCULAR	8' DIA.	TEST
63+40	CIRCULAR	8' DIA.	TEST
63+75, 53' LT.	RECTANGULAR	6' X 12'	FLOW TRANSITION STRUCTURE
64+05	CIRCULAR	8' DIA.	TEST
78+35	CIRCULAR	4' DIA.	ANGLE
85+30	CIRCULAR	8' DIA.	TEST
91+50	CIRCULAR	4' DIA.	AIR RELEASE
108+00	CIRCULAR	8' DIA.	TEST
127+67	CIRCULAR	6' DIA.	AIR RELEASE
136+00	CIRCULAR	8' DIA.	TEST
120+00	CIRCULAR	4' DIA.	JUNCTION
146+60	CIRCULAR	8' DIA.	AIR RELEASE / TEST
158+76	CIRCULAR	6' DIA.	AIR RELEASE
166+85	CIRCULAR	8' DIA.	VALVE



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04023

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	Preim	B - Bids
M	M - T.O.	C - Const.
SCALE	1"=40'H; 1"=4'V	

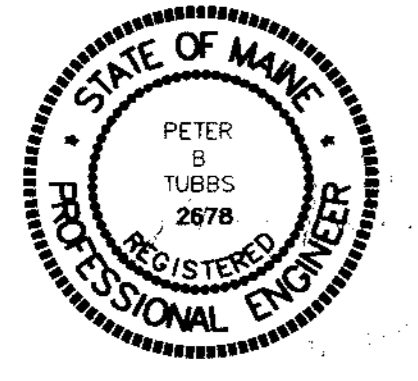
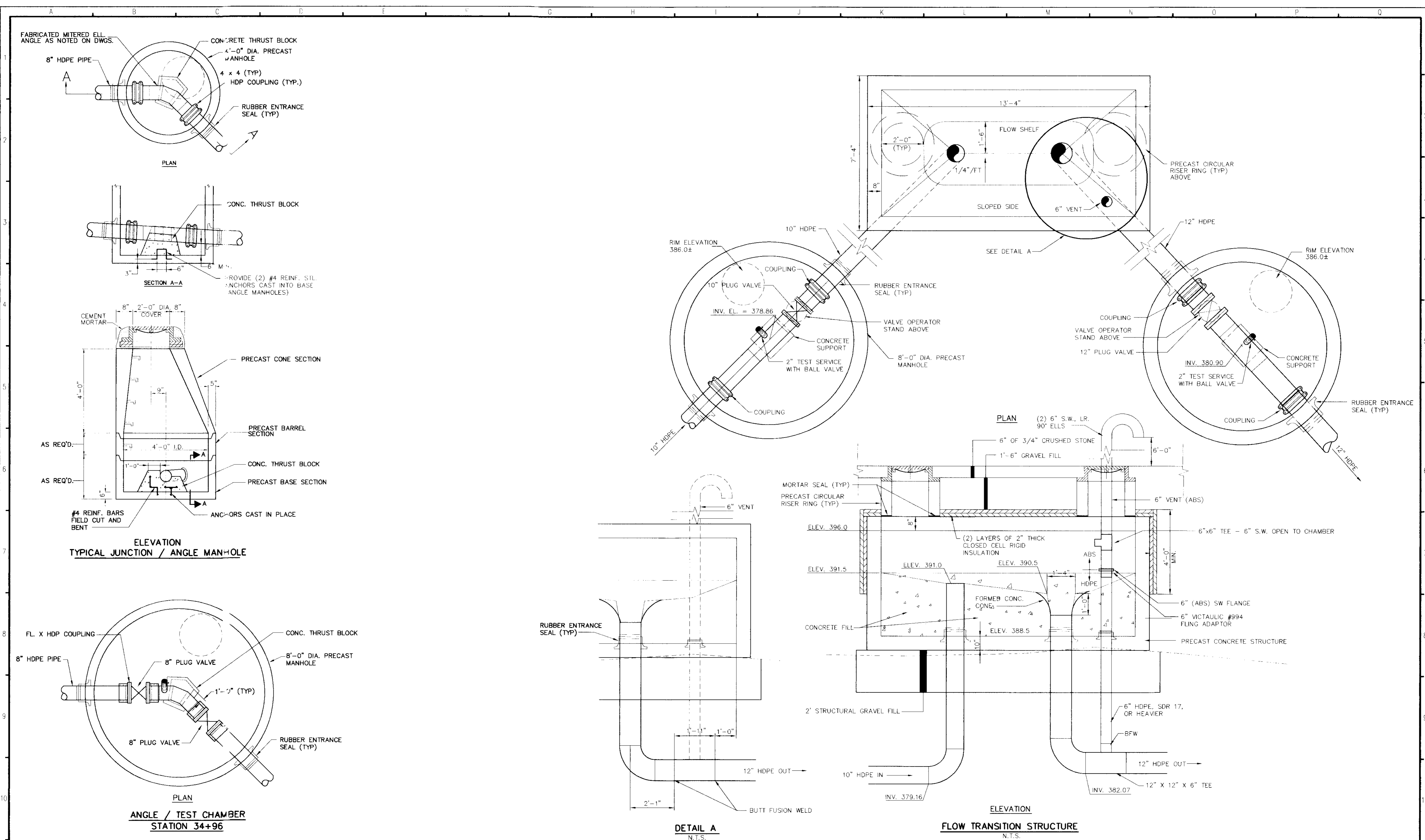


EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 162+50 TO STA. 167+00
10' GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

YB-22974
SHEET 1 OF 1

D. 94-207 ACAD(3422)112 IHL A04 4 09 33 41 1996



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB NO.
		C	3/96		RECORD DRAWING	MSB	PBT		
		C	6/95		ISSUED FOR CONSTRUCTION	BAK	PBT		
		B	4/95		ISSUED FOR BIDS	MSB	PBT		
		P	4/95		PRELIMINARY CONSTRUCTION ISSUE	MSB	PBT		

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

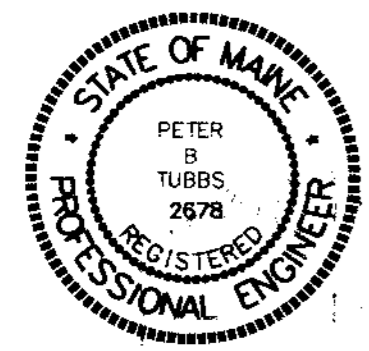
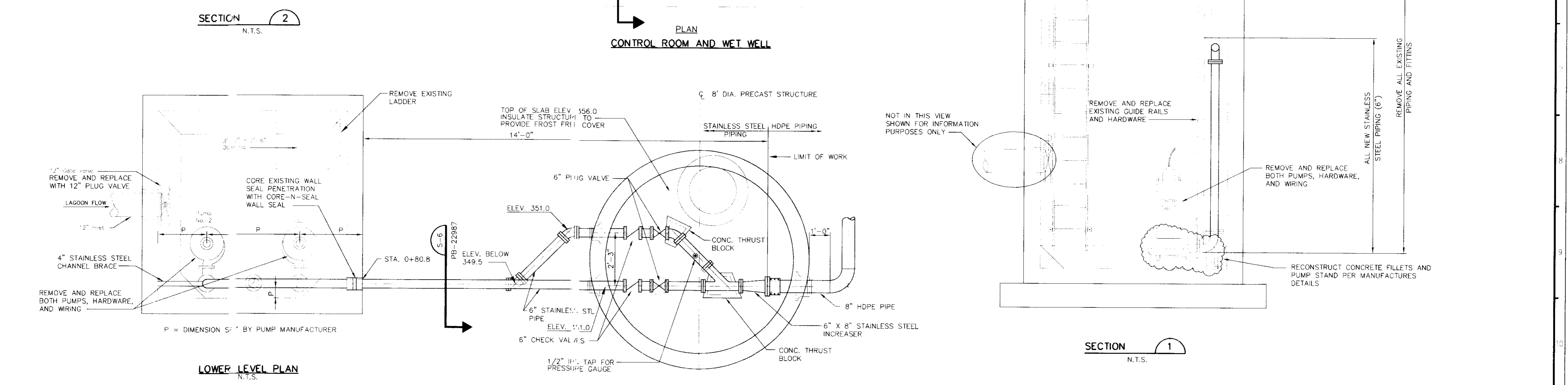
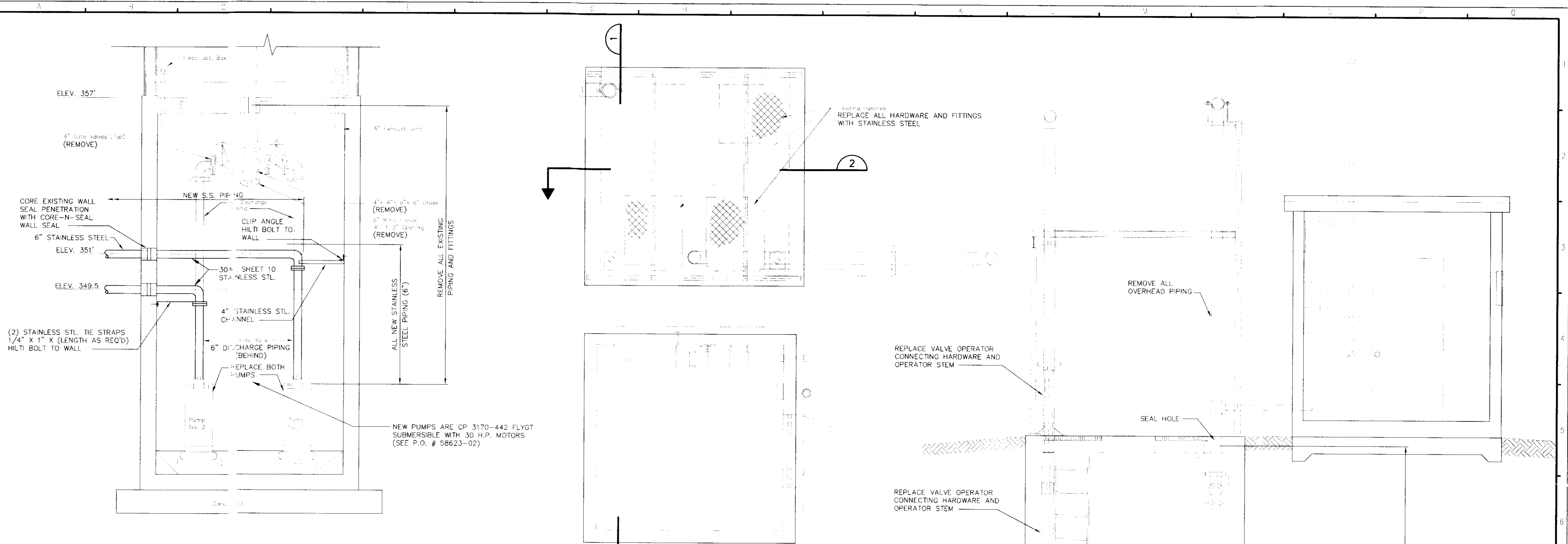
DRN	MSB	4/95
CHK	PBT	4/95
CHK		
APPVD		
ISSUE CODE		
P	Prelim	B - Bids
M	MH T.O.	C - Const.
SCALE AS NOTED		

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
MANHOLES AND STRUCTURES
MISCELLANEOUS DETAILS

JOB NO. 22846
ENG. REQ. NO. _____
FILE NO. 2-092-4783

YB-22975
SHEET 1 OF 2

L 54-227 JAC/UC/EL-2 Thu Mar 26 07:33:46 1998



NO.	DATE	BY	CHK	APP'D	JOB NO.
C	3/96	RECORD DRAWING	MSB	PBT	
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT	
B	6/95	ISSUED FOR BIDS	MSB	PBT	
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	MSB	PBT	

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

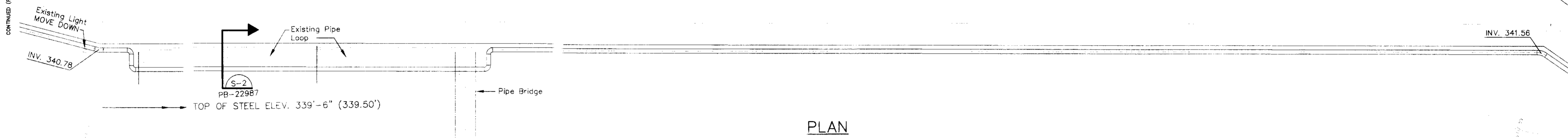
DRN	MSB	4/95
CHK	PBT	4/95
CHK		
CORR		
APPVD		
ISSUE CODE		
P	Prelim	B - Bids
M	Mil. T.O.	C - Const.
SCALE AS NOTED		

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
EXISTING PUMP STATION MODIFICATIONS
PLANS AND SECTIONS

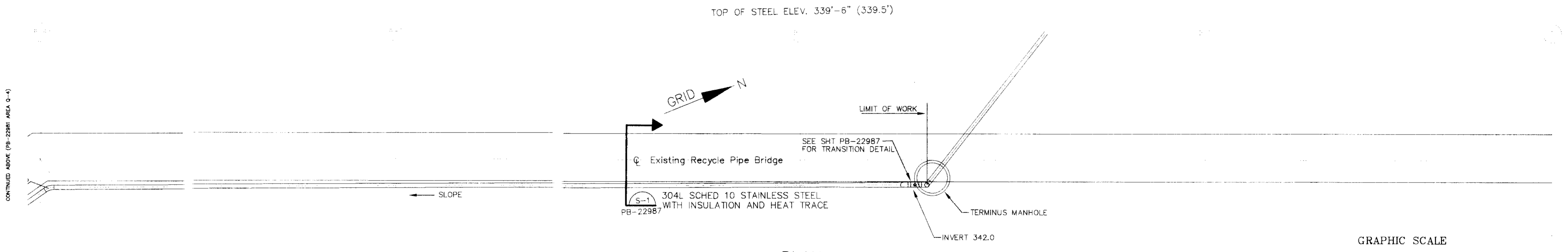
JOB NO. 22846
ENG. REQ. NO. YB-22976
FILE NO. 2-092-4783

CONTINUED (PB-22982 AREA Q-9)

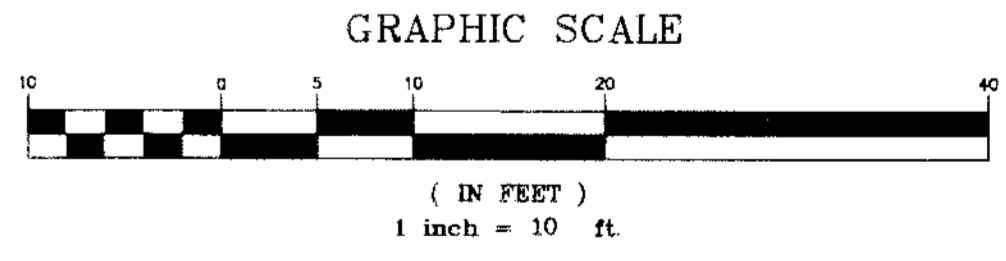
CONTINUED ABOVE (PB-22981 AREA Q-4)



PLAN



PLAN



PF-01632-C	SIMONS ENGINEERING/RECYCLE FIBER PLANT	C	8/17/95	ISSUED FOR CONSTRUCTION	BDB	DWY
PF-01631-D	SIMONS ENGINEERING/RECYCLE FIBER PLANT	P	8/8/95	FOR CLIENT REVIEW	BDB	DWY
		P	5/28/95	FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

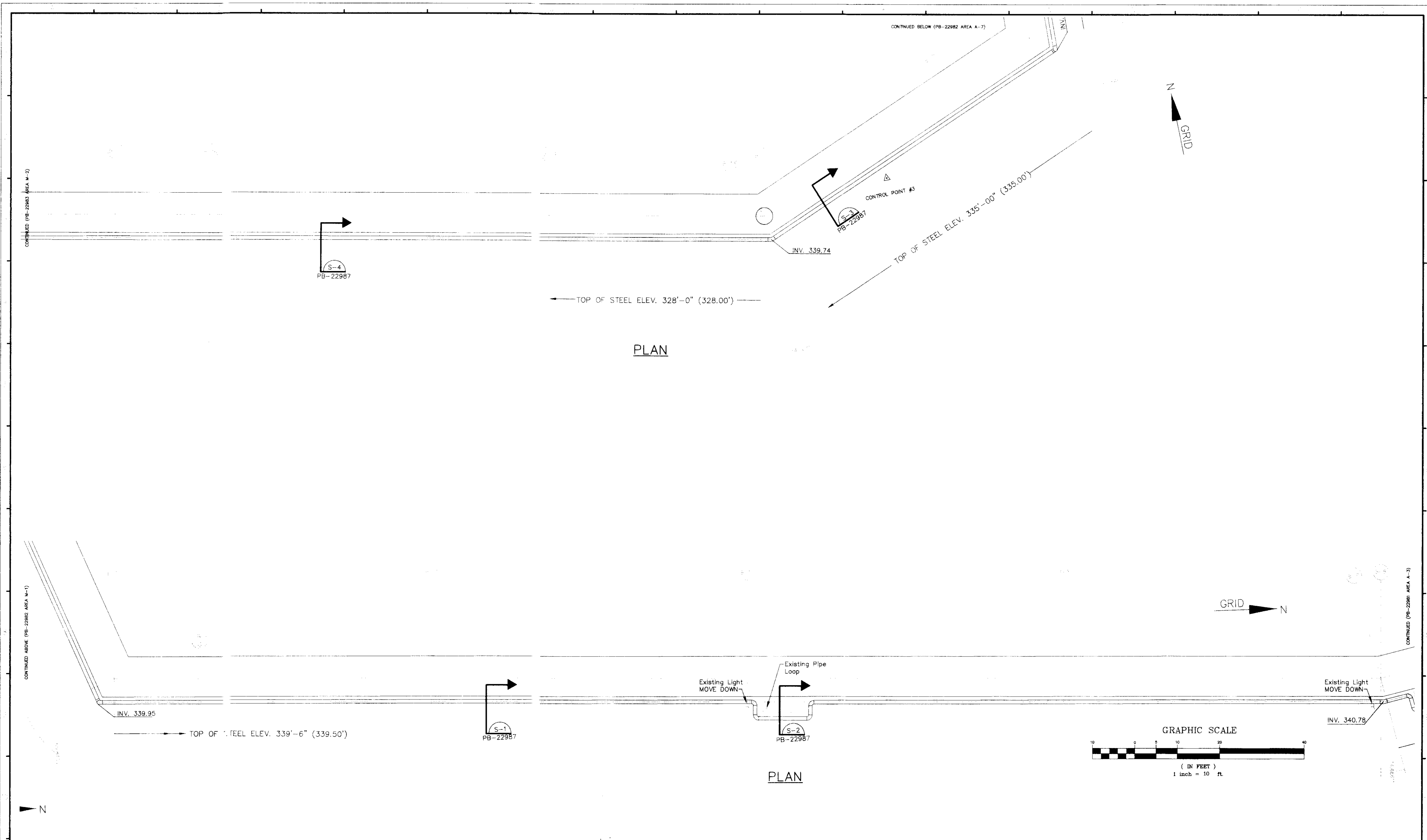
DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mt. T.O.	C - Const.	
1" = 10'		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
PIPE BRIDGE
10' GRAVITY SEWER

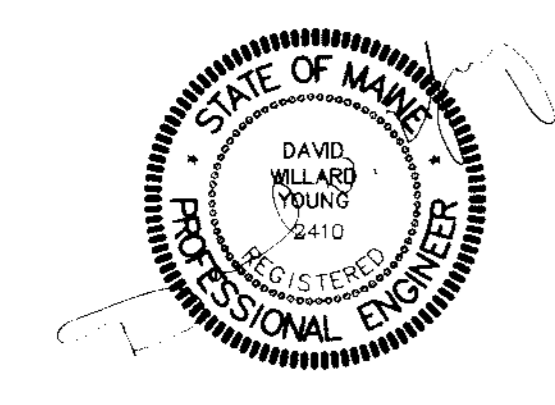
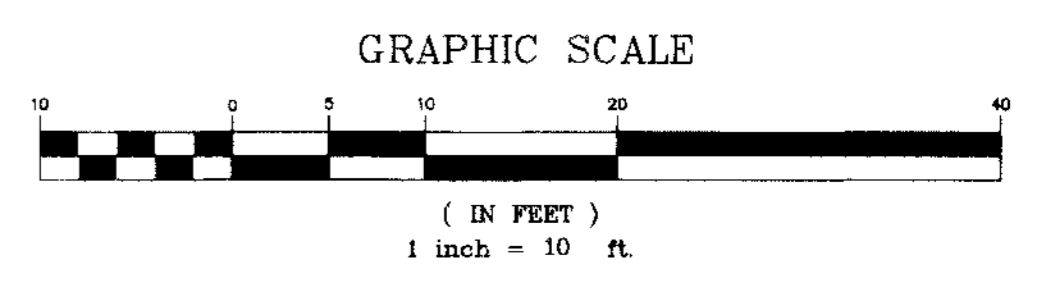
JOB NO. 22846
ENG. REG. NO.
FILE NO. 2-092-4783

SHEET 1 OF 8



PLAN

PLAN



NO.	DATE	DESCRIPTION	BY	CHK
PF-01833-C	8/17/95	ISSUED FOR CONSTRUCTION	MSB	DWY
PF-01833-B	8/8/95	FOR CLIENT REVIEW	MSB	DWY
PF-01834-B	5/26/95	FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

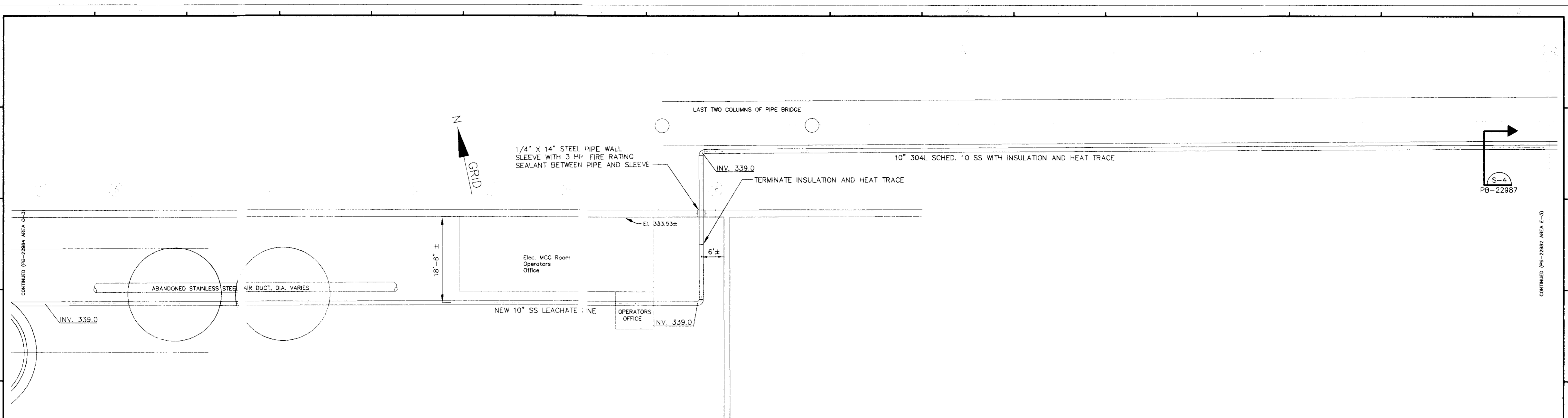
DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mt. I.O.	C - Const.	
1" = 10'		

BOWATER
Great Northern Paper

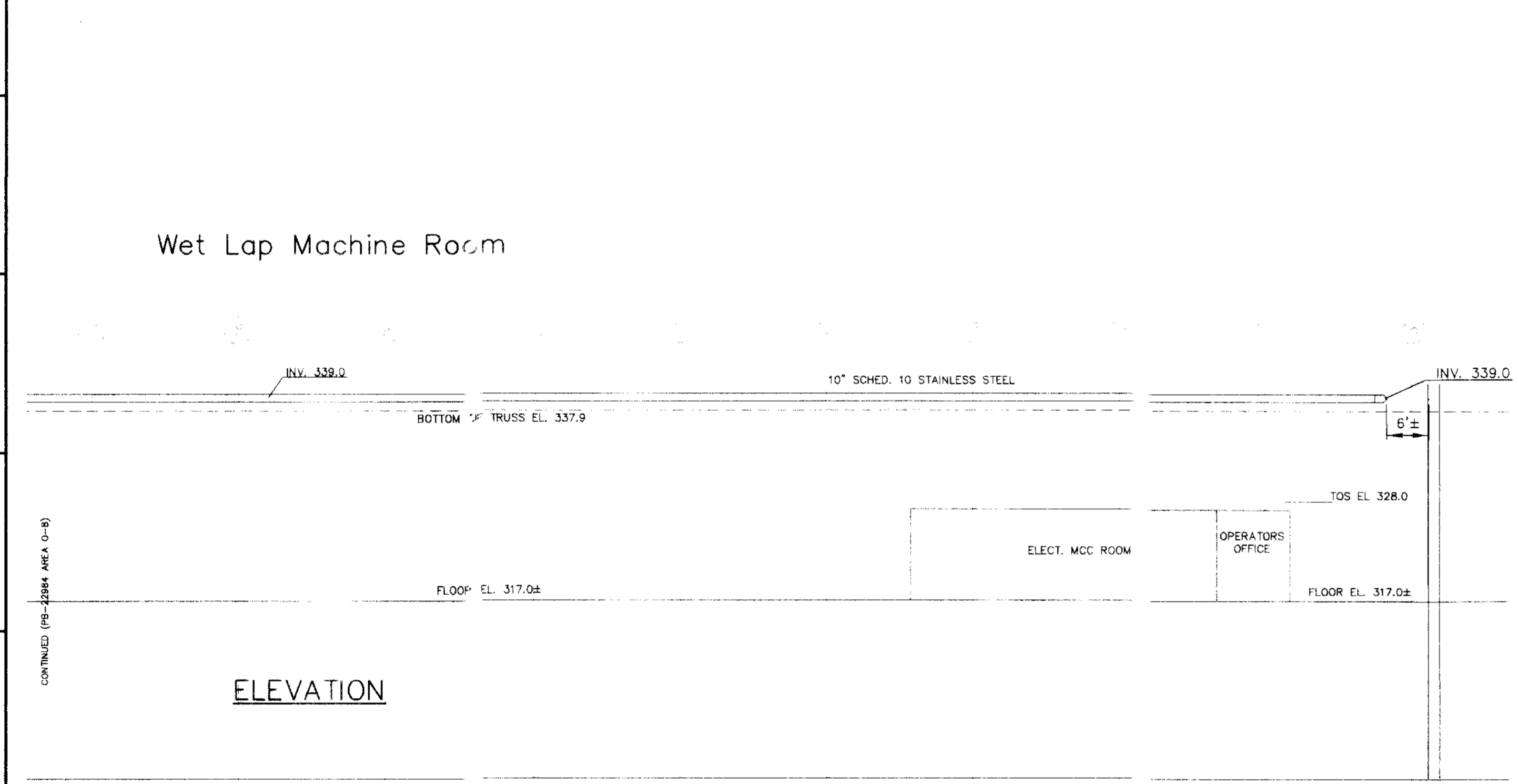
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
PIPE BRIDGE
10" GRAVITY SEWER

JOB NO. 22846
ENG. REQ. NO. _____
FILE NO. 2-092-4783

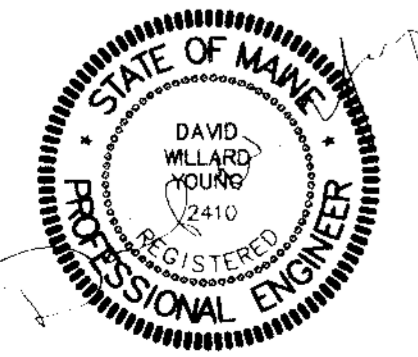
DATE: 8/17/95
SHEET 2 OF 8



PLAN



ELEVATION



PF-01634-B	SIMPSONS ENGINEERING/RECYCLE FIBER PLANT	8/17/95	ISSUED FOR CONSTRUCTION	BDB	DWY
		8/8/95	ISSUED FOR CLIENT REVIEW		
		5/26/95	ISSUED FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

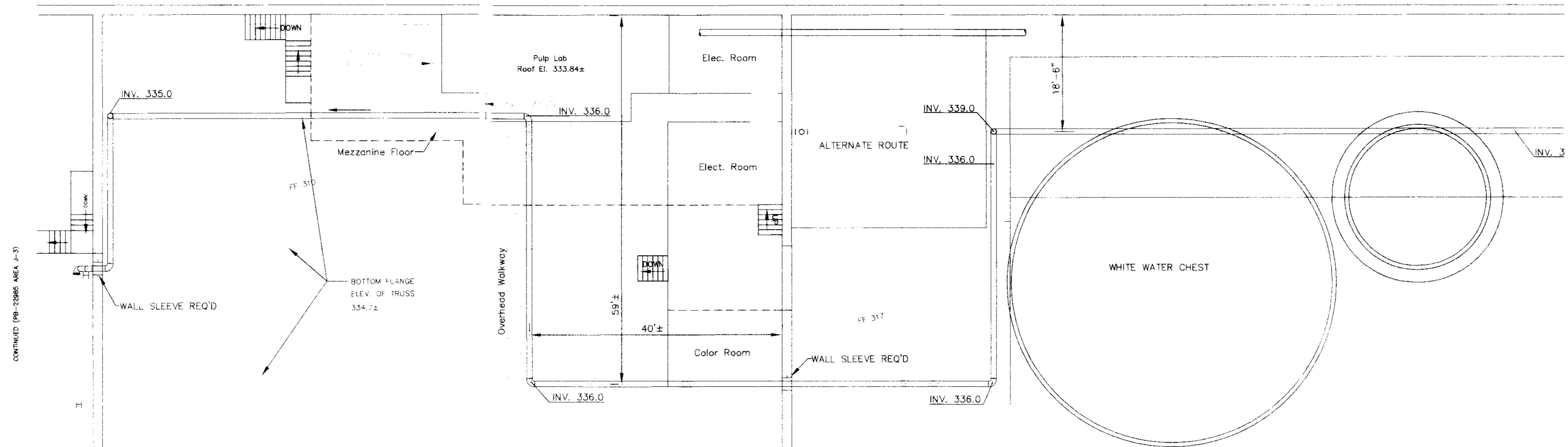
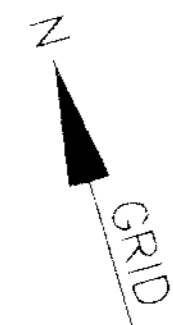
DRN	DWY	5/95
CHK		
CHK		
CORR		
APPROV		
ISSUED FOR CONSTRUCTION		
P - Prelim	B - Bids	
M - Mt. T.O.	C - Const.	
1" = 10'		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
PIPE BRIDGE AND WET LAP ROOM
10" GRAVITY SEWER

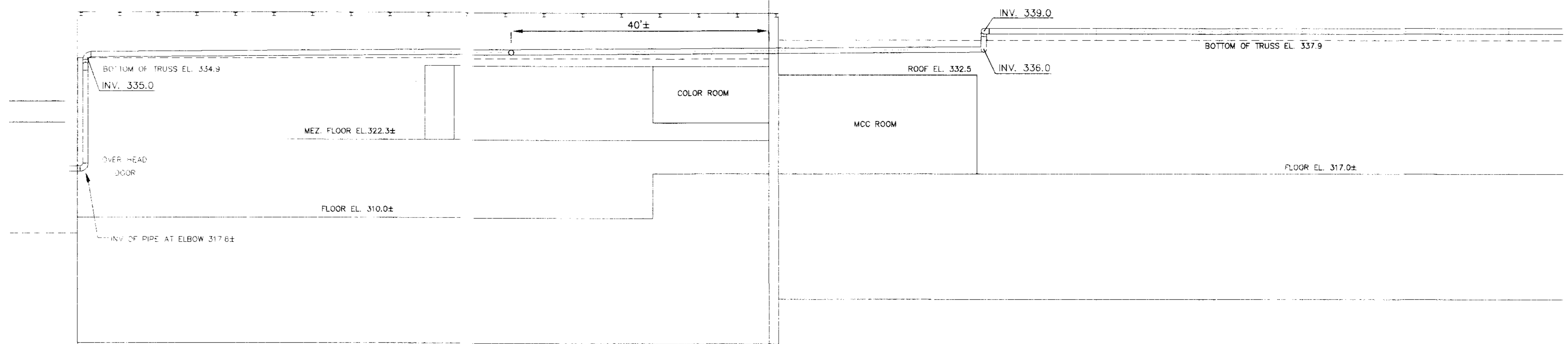
JOB NO. 22846
ENG. REG. NO.
FILE NO. 2-092-4783

SHEET 3 OF 8

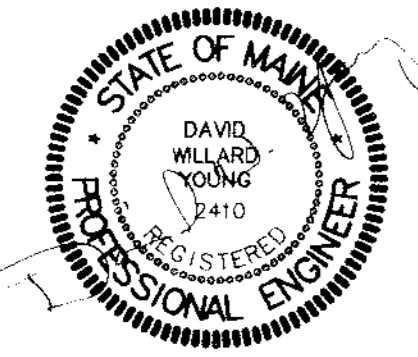


PLAN

← DISC FILTER AREA Screen Room → Wet Lap Machine Room



ELEVATION



NO.	DATE	DESCRIPTION	BY	CHK
C	8/17/95	ISSUED FOR CONSTRUCTION	BDB	DWY
	8/8/95	ISSUED FOR CLIENT REVIEW	MSB	DWY
	5/26/95	ISSUED FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

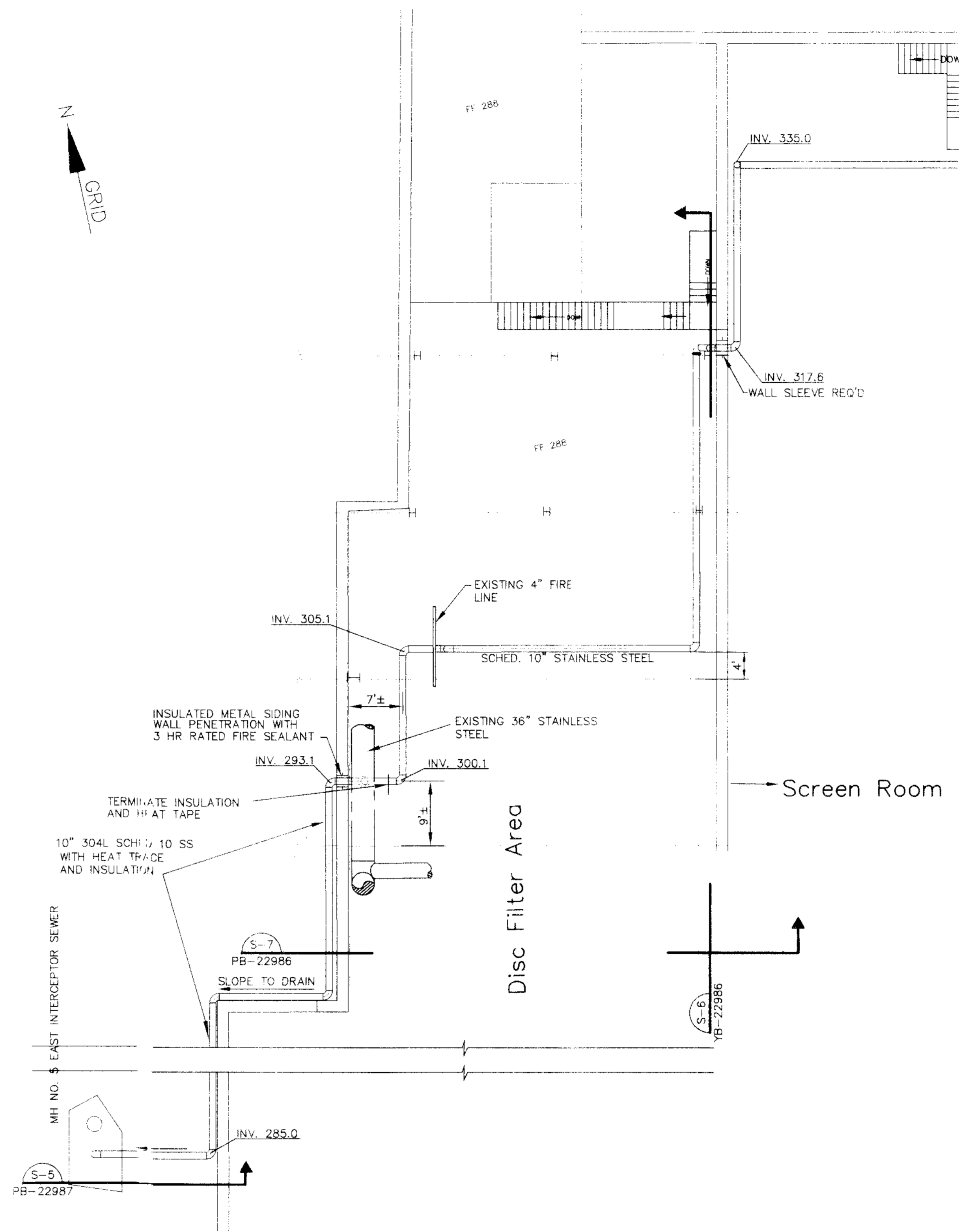
DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P	Prelim	B - Bids
M	Mt. T.O.	C - Conct.
1" = 10'		



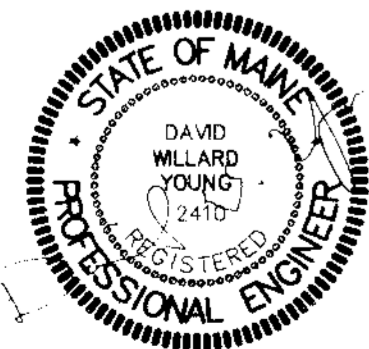
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
WET LAP AND SCREEN ROOM AREA
10" GRAVITY SEWER

JOB NO. 22846
ENG. REQ. NO. _____
FILE NO. 2-992-4783

10/20/95
SHEET 4 OF 8



CONTINUED (PB-22984 AREA C-3)



NO.	DATE	DESCRIPTION	BY	CHECKED
AF-375-E		SIMONS ENGINEERING/DISC FILTER BLDG.		
YF-719-F		SIMONS ENGINEERING/GROUND WOOD IMPROVEMENTS STEEL @ EL 310	C	8/17/95 ISSUED FOR CONSTRUCTION
YF-725-B		SIMONS ENGINEERING/EAST INTERCEPTOR SEWER	P	8/8/95 ISSUED FOR CLIENT REVIEW
YF-696-B		SIMONS ENGINEERING/EAST INTERCEPTOR SEWER	P	5/25/95 ISSUED FOR CLIENT REVIEW

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04023

DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - MII T.O.	C - Const.	
1" = 10'		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
DISC FILTER AREA
10" GRAVITY SEWER

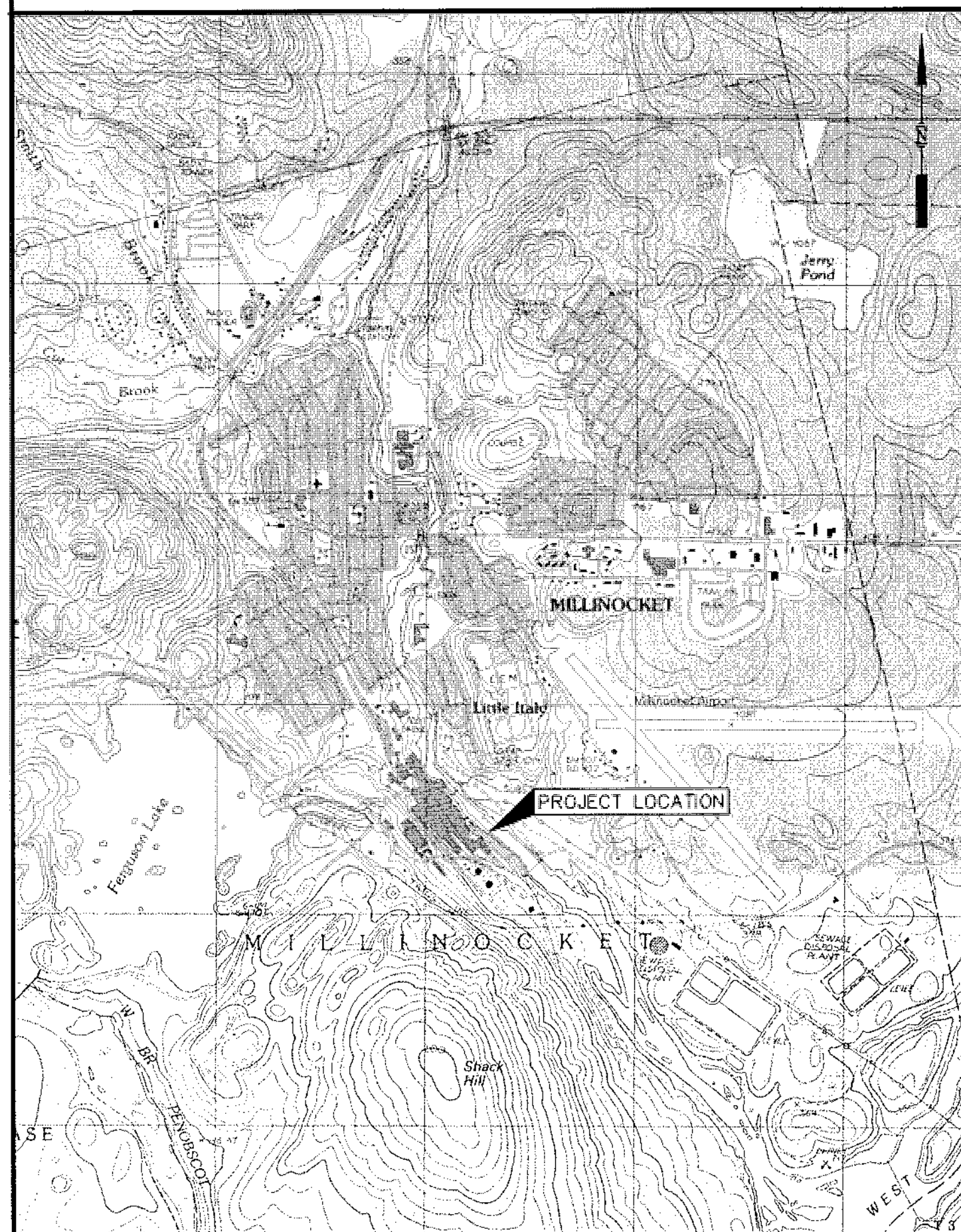
JOB NO. 22846
ENG. REQ. NO. 22846
FILE NO. 2-982-4783

22980
SHEET 5 OF 8

MAINE DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT LEACHATE PIPELINE RELOCATION GNP MILL FACILITY EAST MILLINOCKET, MAINE

TITLE	DWG NO
COVER SHEET	
SYMBOLS & ABBREVIATIONS	C-100
SITE OVERVIEW PLAN	C-101
LEACHATE PIPELINE PLAN AND PROFILE	C-200
LEACHATE PIPELINE PLAN AND PROFILE	C-201
LEACHATE PIPELINE PLAN AND PROFILE	C-202
SECTIONS AND DETAILS	C-300
SECTIONS AND DETAILS	C-301
SECTIONS AND DETAILS	C-302
SECTIONS AND DETAILS	C-303
SECTIONS AND DETAILS	C-304
SECTIONS AND DETAILS	C-305
FLOW METER BUILDING ELECTRICAL PLAN	6312-14001-E03

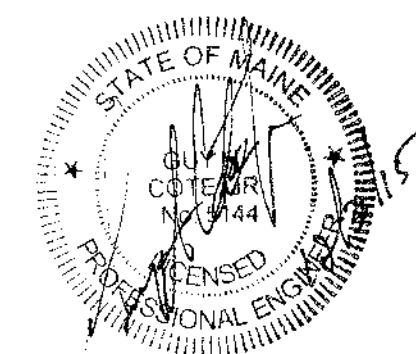
LOCATION MAP



SME
Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com



RECORD DRAWINGS

MANHOLE AND CATCH BASIN NOTES:

THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

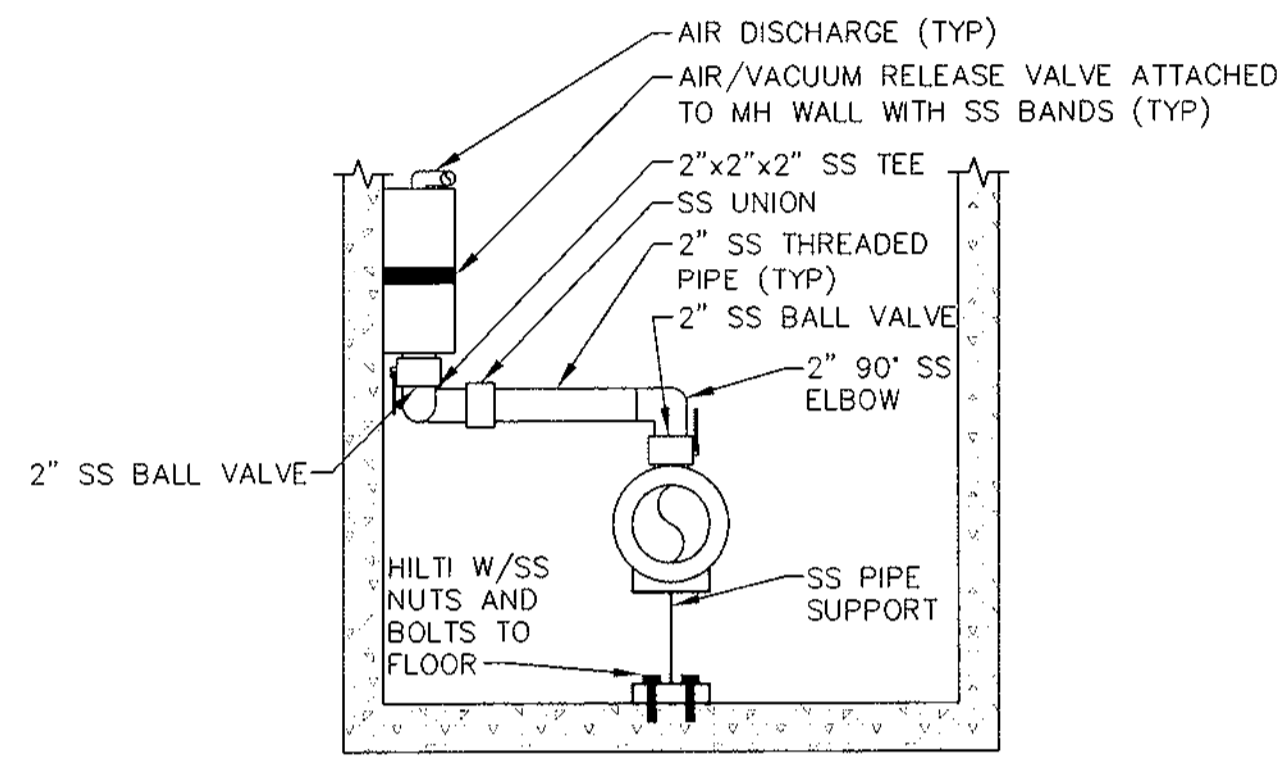
PRODUCT DATA: SUBMIT PRODUCT DATA FOR ALL MATERIALS USED ON THE JOB FOR REVIEW FOR LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN CONTRACT DOCUMENTS.

SHOP DRAWINGS: SUBMIT FOR REVIEW SHOP DRAWINGS OF ALL PRECAST UNITS. MANUFACTURER'S INFORMATION SHALL BE SUBMITTED FOR JOINT SEALANTS AND WATERPROOFING. MANUFACTURE SHALL PROVIDE ANTI-FLOTATION DESIGN SHOP DRAWINGS AND CALCULATIONS, INCLUDING ANY EXTENDED BASE SLABS AS NECESSARY, FOR PROPOSED MANHOLES. MANUFACTURER SHALL ASSUME GROUNDWATER LEVELS EQUAL TOP OF GROUND ELEVATIONS AND PROVIDE FOR A 1.2 FACTOR OF SAFETY AGAINST FLOTATION.

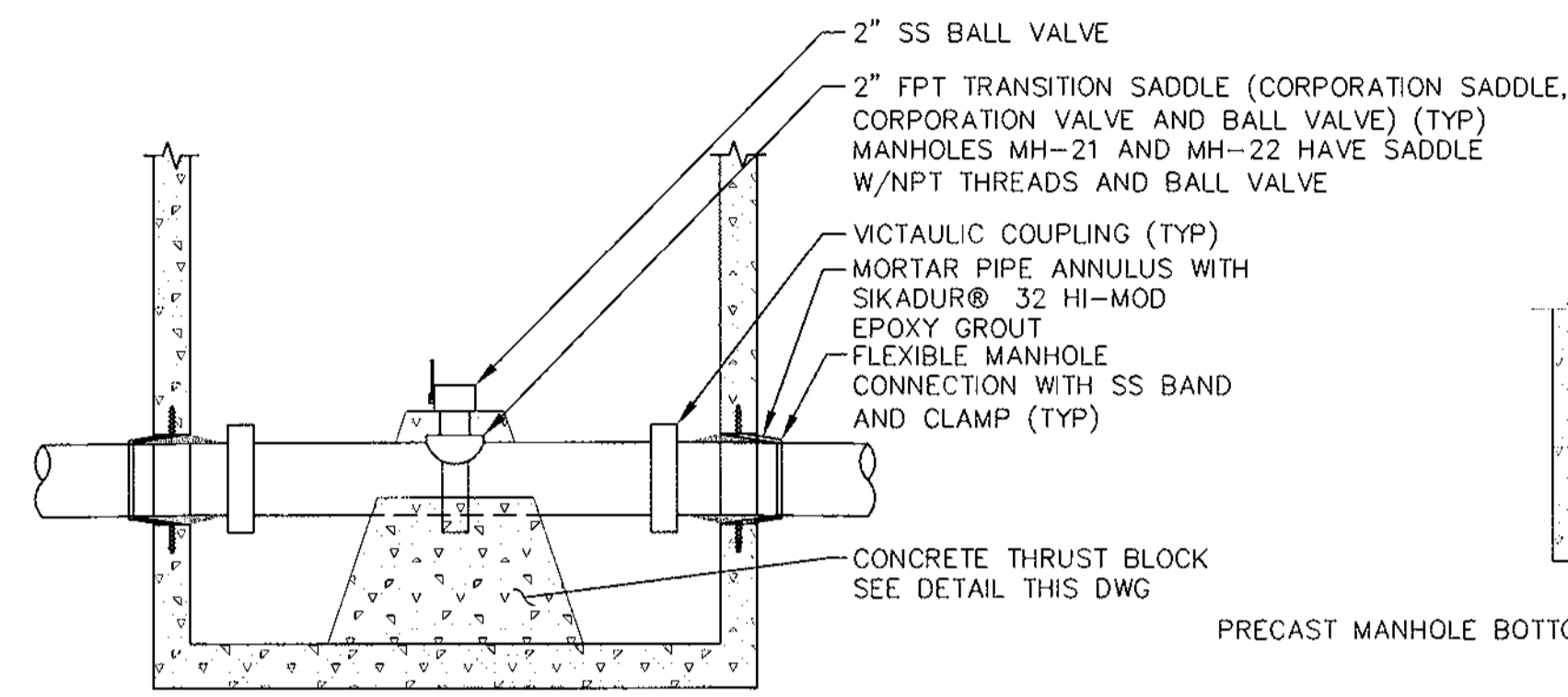
LOAD RATING: ALL MANHOLES AND CATCH BASINS SHALL BE H-20 LOAD RATED.

MANHOLE SCHEDULE

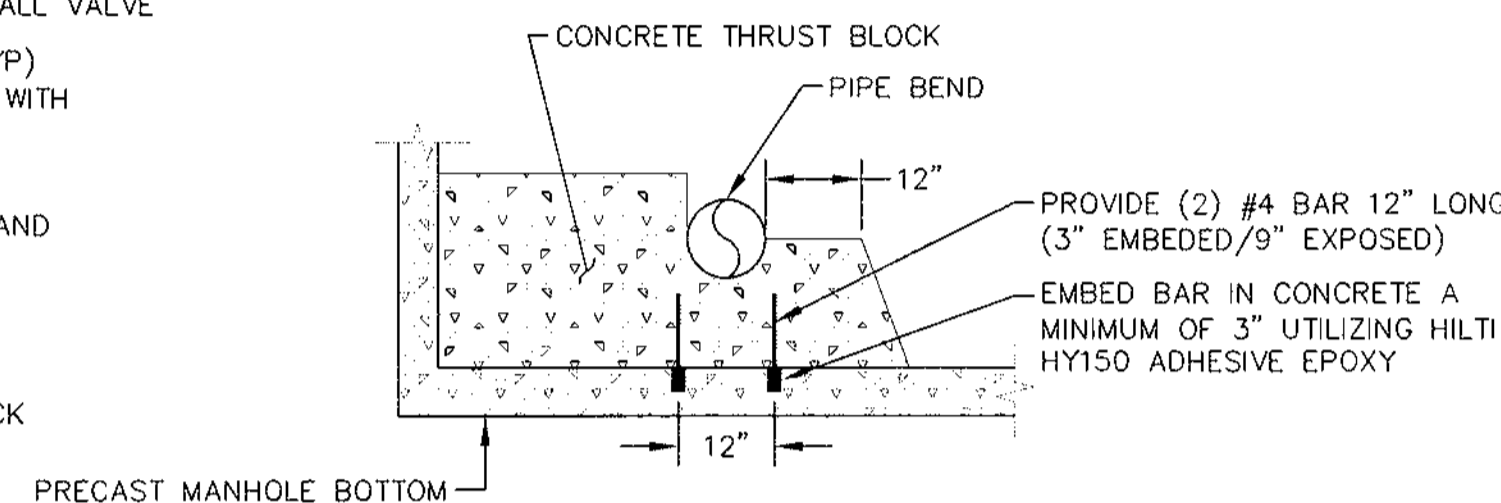
MANHOLE	PIPE ANGLE (DEGREES)	STATION	INSIDE DIA (FEET)	RIM EL (FEET)	INVERT IN		INVERT OUT		BOTTOM EL
					PIPE DIA (INCHES)	PIPE INV EL (FEET)	PIPE DIA (INCHES)	PIPE INV EL (FEET)	
MH-20	NONE	2+45	8	316.0	10 (EXIST)	308.0 (EXIST)	10	308.0	307.0/-
MH-21	NONE	5+00	6	314.1	10	308.0	10	308.0	307.0
MH-22	45 (3-SEGMENT)	11+90	6	310.2	10	301.7	10	301.7	300.7
MH-23	52 (3-SEGMENT)	13+64	6	309.6	10	300.5	10	300.5	299.5
MH-24	NA	19+03.5	6	300.5	10	295.5	10	295.5	294.5
MH-25	45 (3-SEGMENT)	21+81	6	299.9	10	293.4	10	293.4	292.4
MH-26	90 (5-SEGMENT)	24+13.9	6	298.8	10	291.6	10	291.6	290.6
FLOW METER BLDG	SEE DETAIL ON DWG C-301	24+73.9	NA (6' x 10')	NA	10	290.0	8	289.0	288.0
MH-28	NA	24+85.5	6	298.7	8	289.0	18	289.0	288.0
							12	291.8	
MH-29	75 (5-SEGMENT)	26+06.5	8	295.2	18	286.0	18	286.0	285.0
MH-30	90 (5-SEGMENT)	30+88.1	8	286.0	18	279.3	18	279.3	278.3
ECB	NA	NA	6	NA	NA	NA	12	287.5	NA



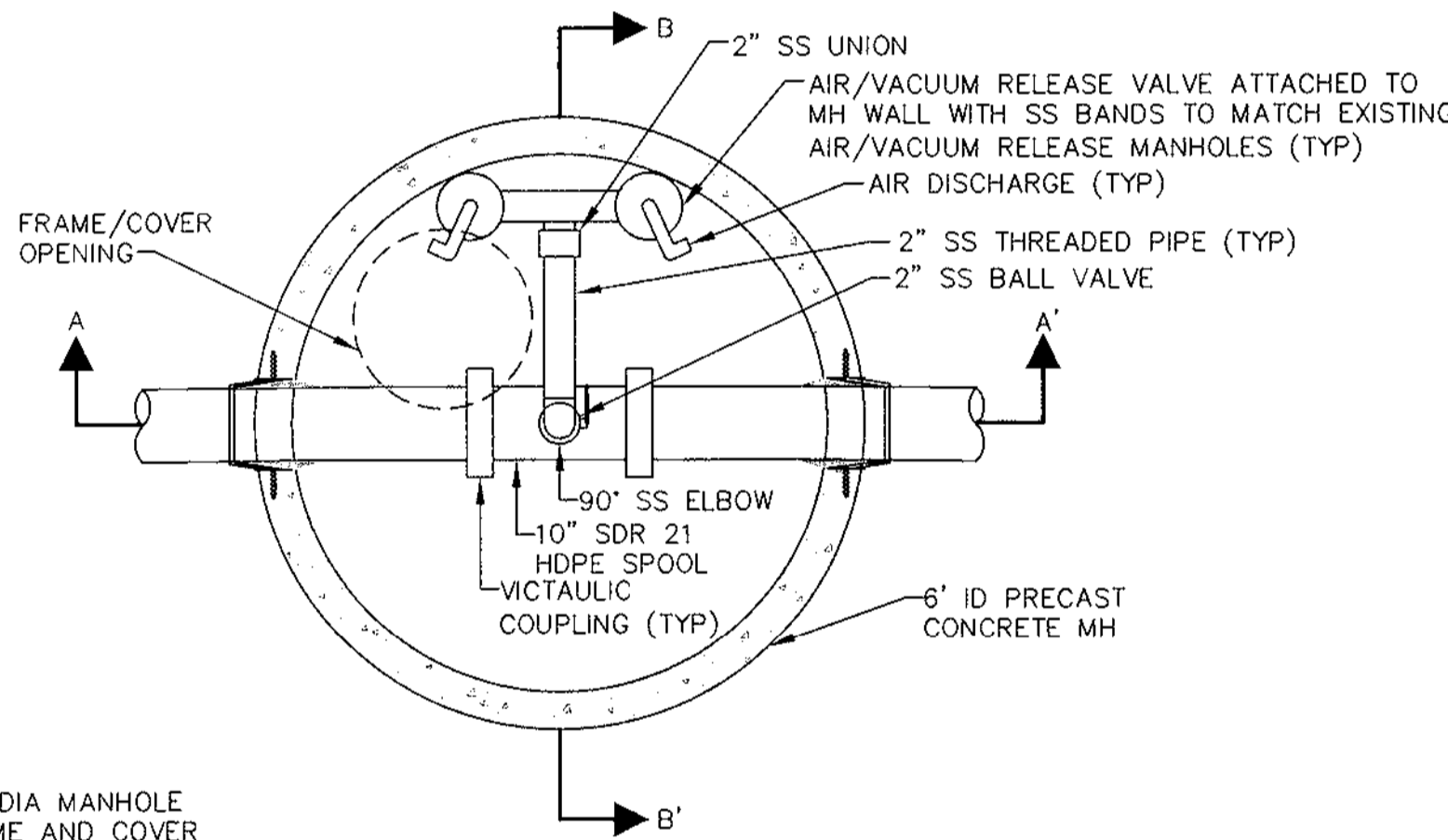
SECTION B-B'



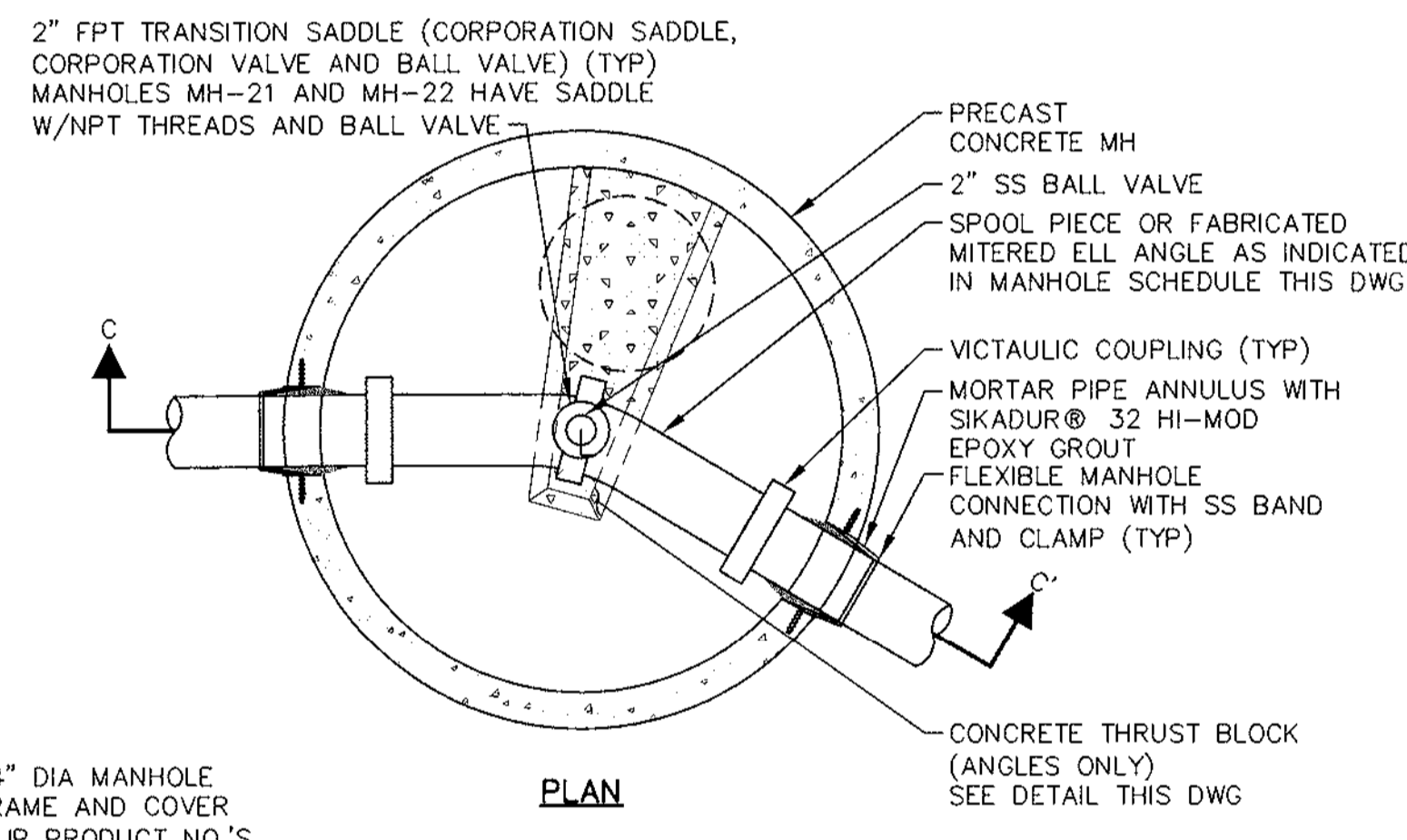
SECTION C-C'



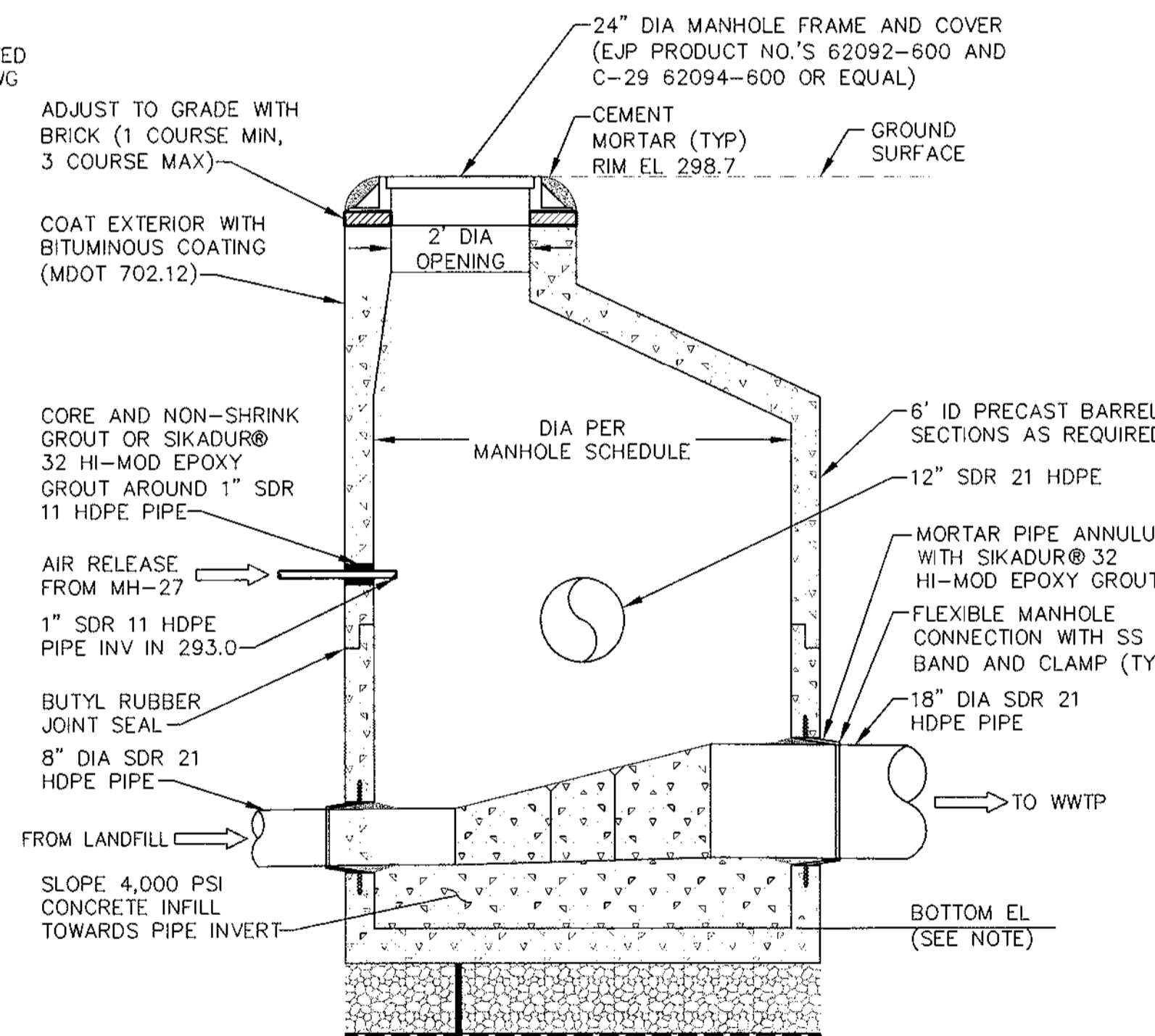
SECTION D-D'
MANHOLE THRUST BLOCK



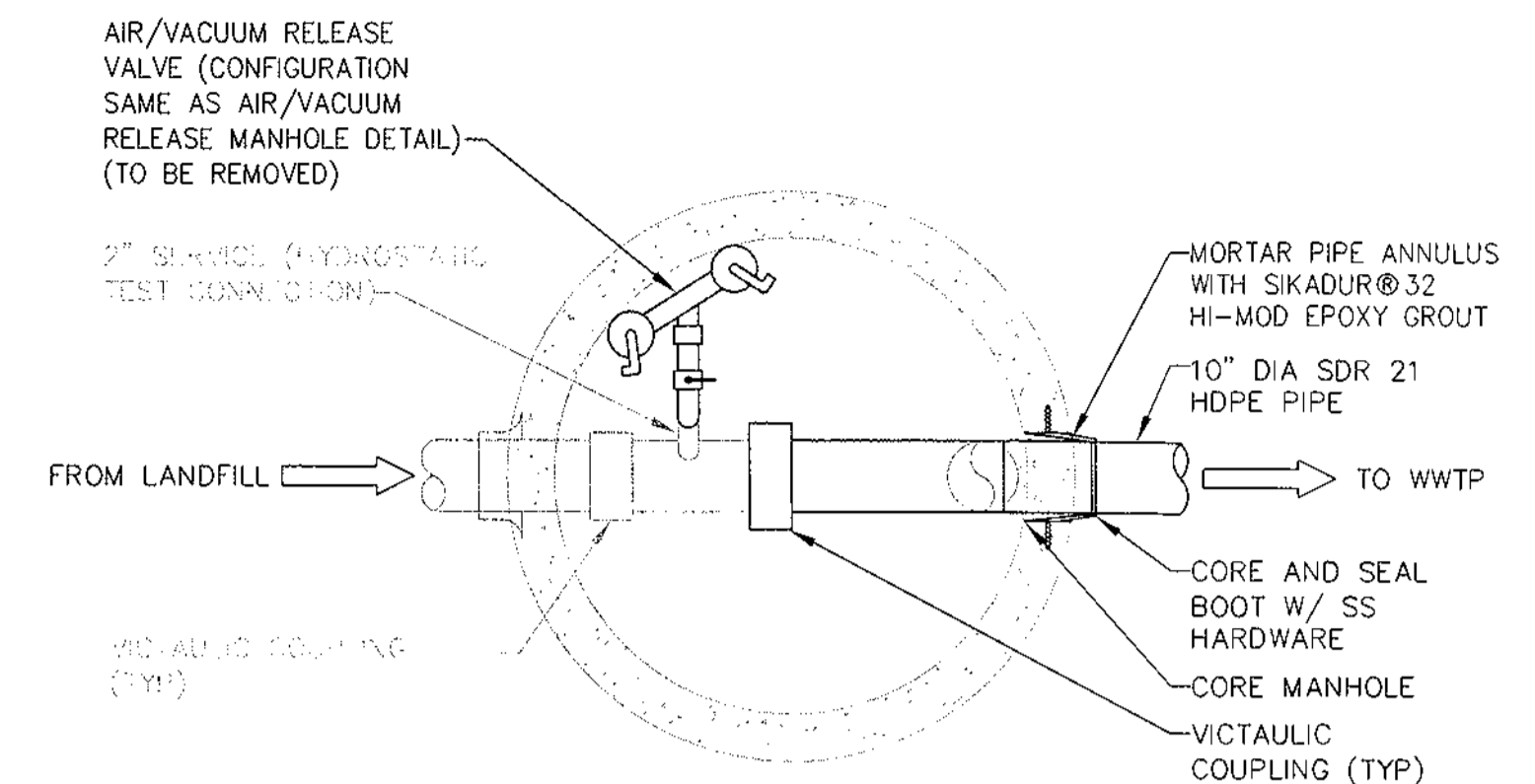
PLAN



PLAN



ELEVATION
MANHOLE 28

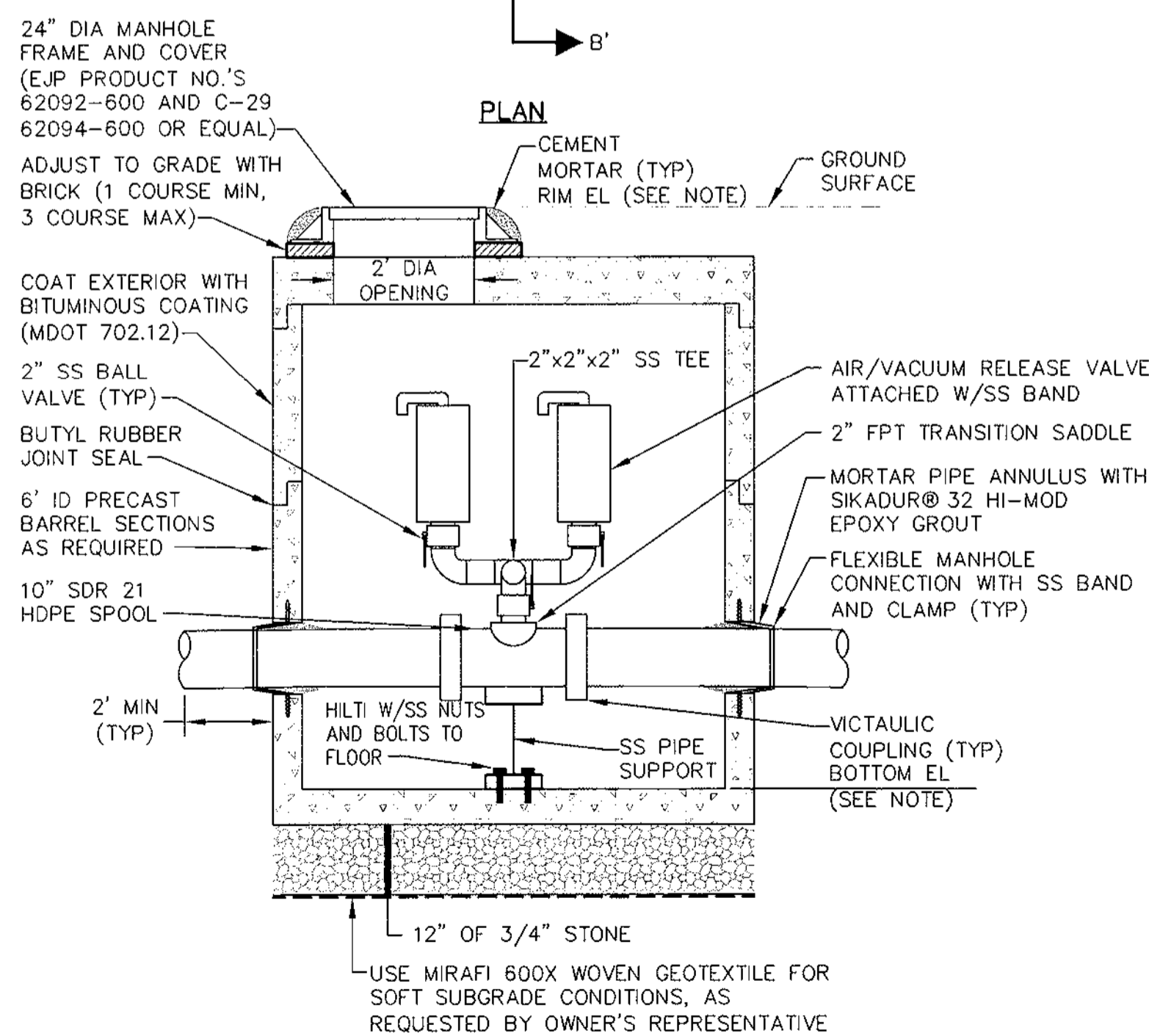


PLAN

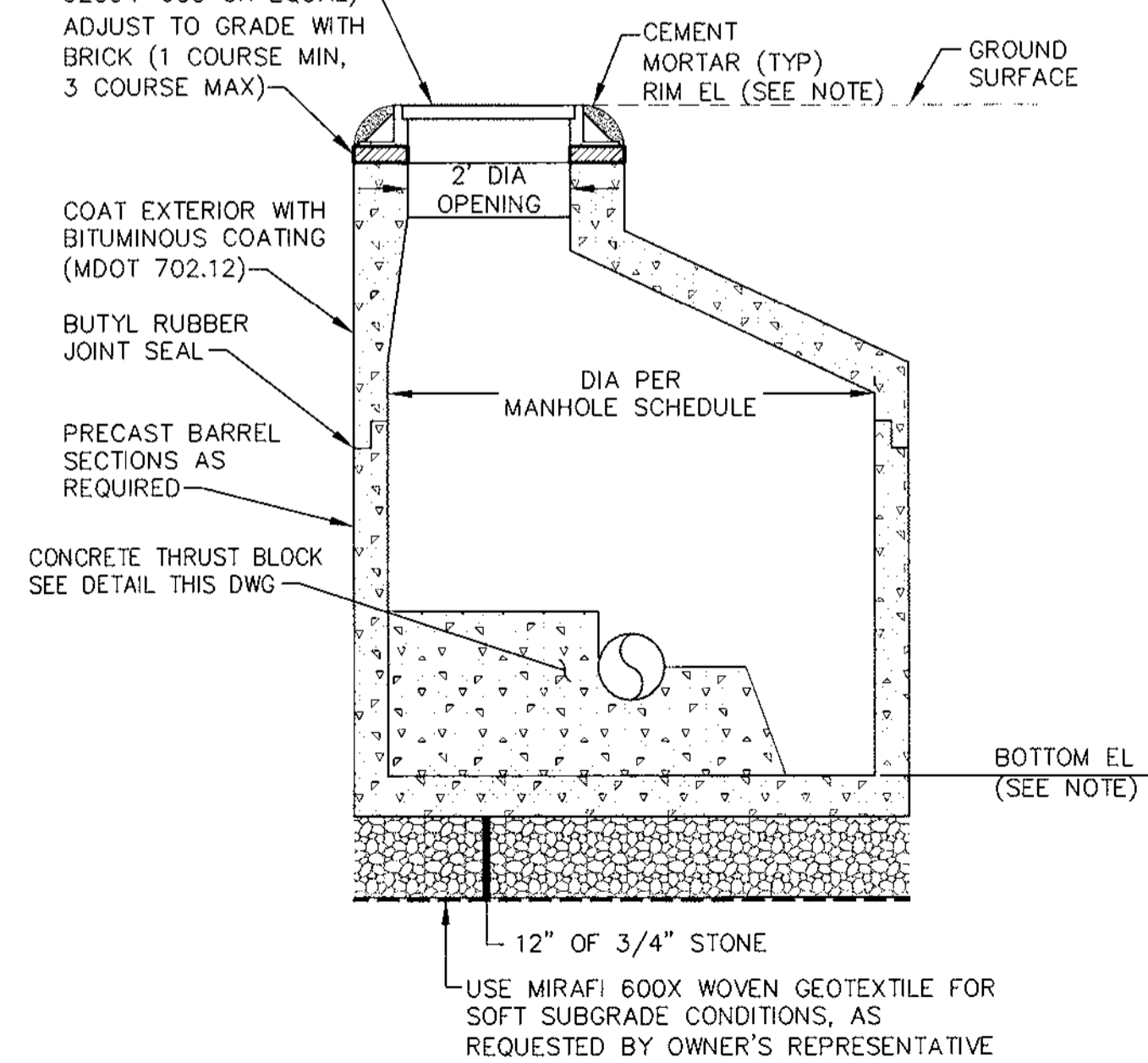
ELEVATION

- NOTES:**
- CONFIRM PIPE DIMENSIONS PRIOR TO CONSTRUCTION
 - TERMINUS MANHOLE PIPING SHALL BE DEWATERED PRIOR TO TIE-IN. ALL LEACHATE FROM THE SYSTEM SHALL BE DISPOSED OF IN GNP MILL SEWER MANHOLE AT LOCATION DETERMINED BY ENGINEER. ANTICIPATED LEACHATE VOLUME FROM DEWATERING IS 20,000 GALLONS.

TERMINUS MANHOLE (MH 20)



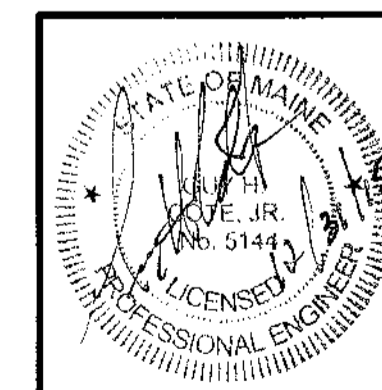
SECTION A-A'



ELEVATION
MANHOLE

AIR/VACUUM RELEASE MANHOLE

REV.	BY	DATE	STATUS
	BDP	12/15	RECORD DRAWING
	BDP	8/15	REVISED PER CHANGE ORDER 1
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	7/15	REVISED PER ADDENDUM 1
	BDP	6/15	ISSUED FOR BID



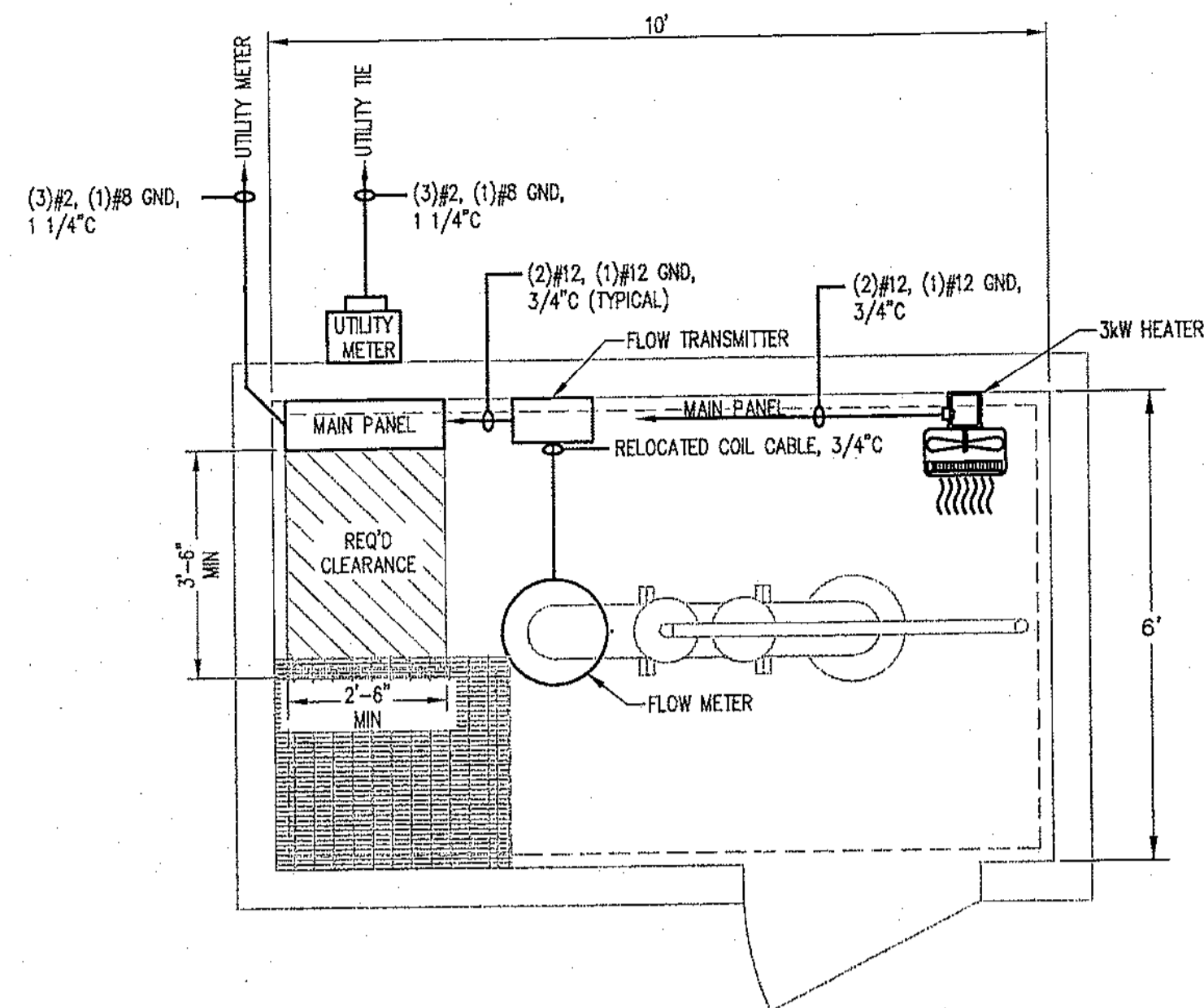
MAINE DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT
LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

SECTIONS AND DETAILS

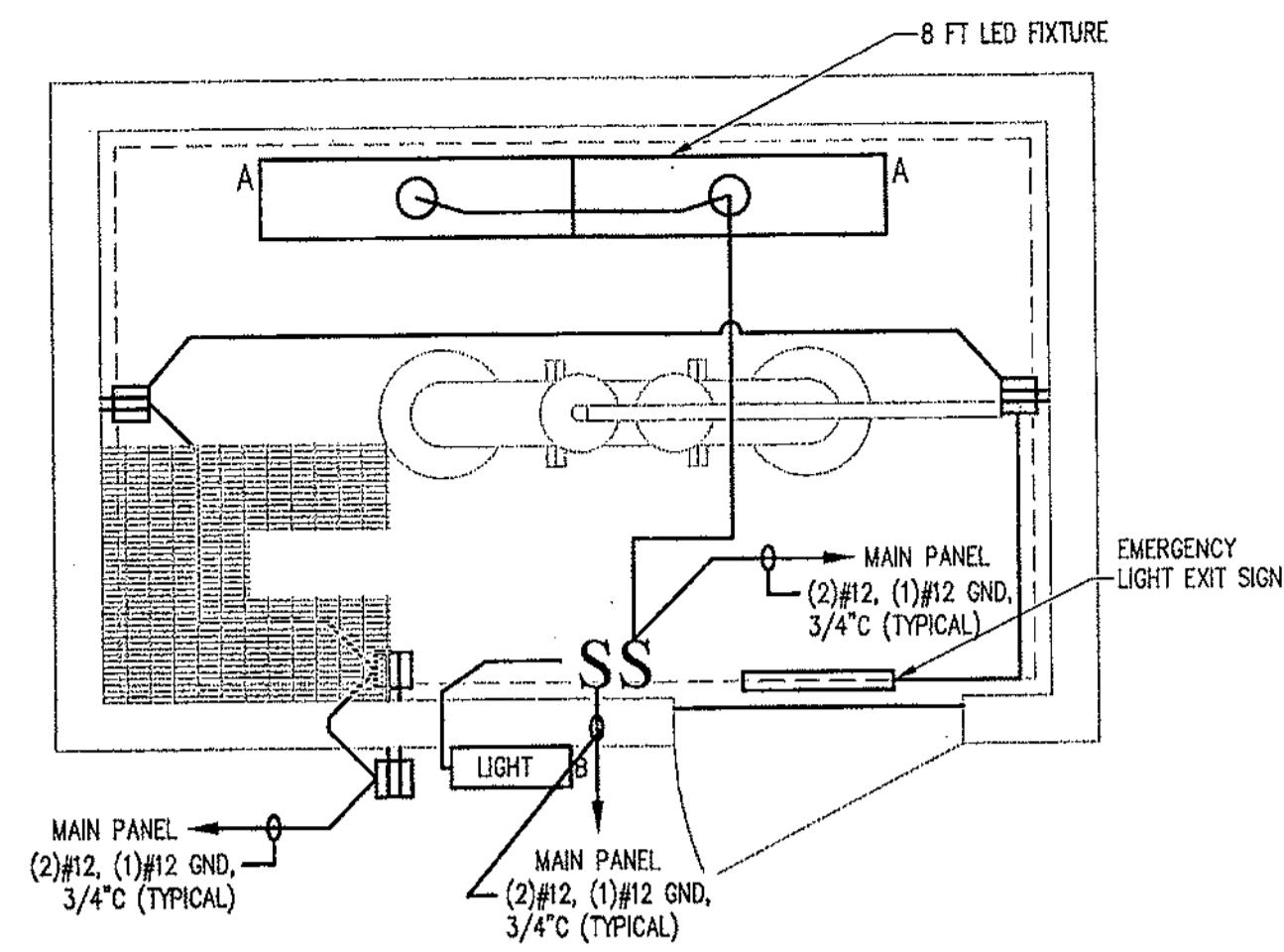
SME
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4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: BDP
DRAWN BY: JRL
DATE: 5/28/2015
CHECKED BY: BDP
LMN: LMN
CTB: SME-STD

JOB NO. 14134.09 DWG FILE DETAILS C-300



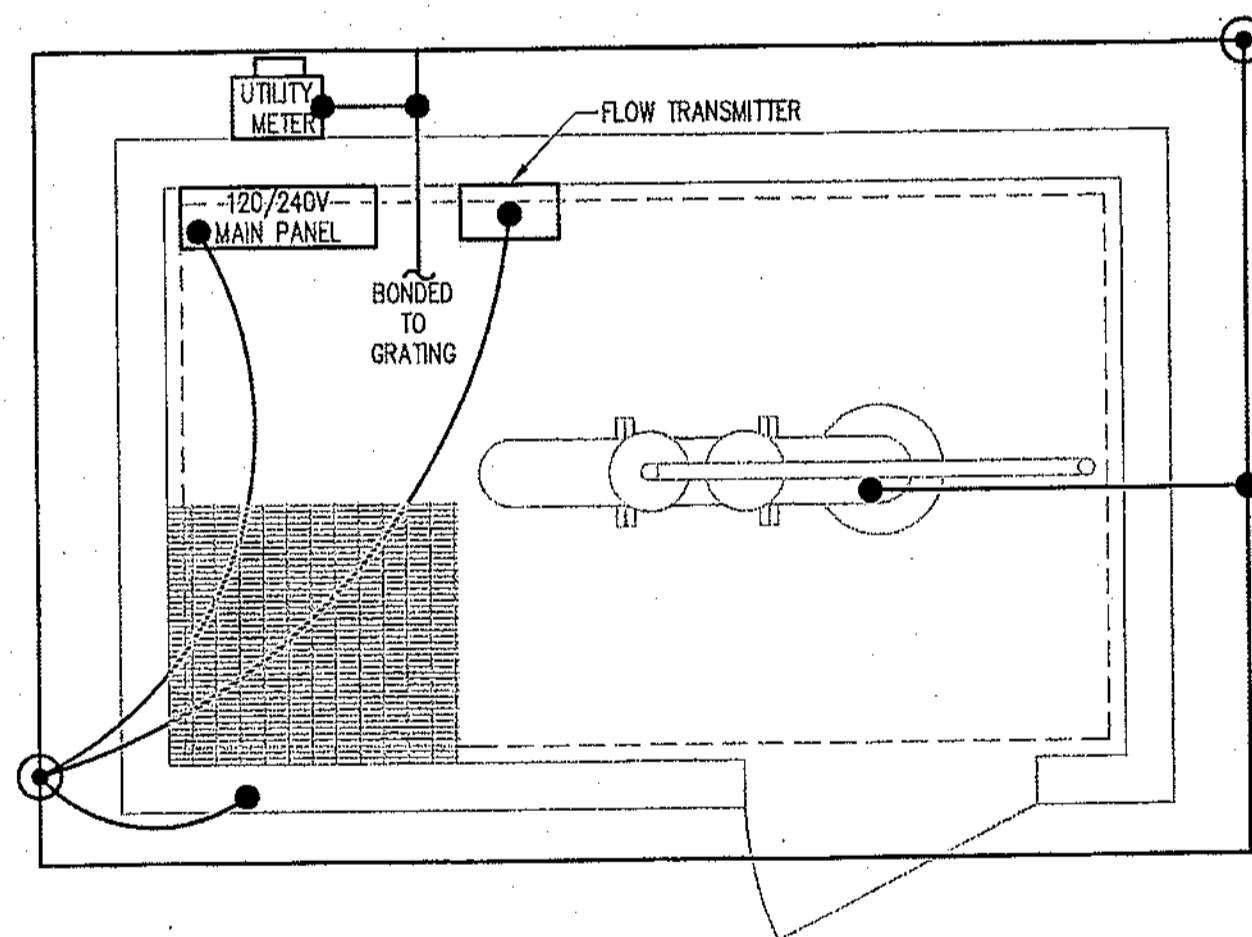
POWER PLAN - UPPER
FLOW METER BUILDING (MH27)
SCALE: NTS



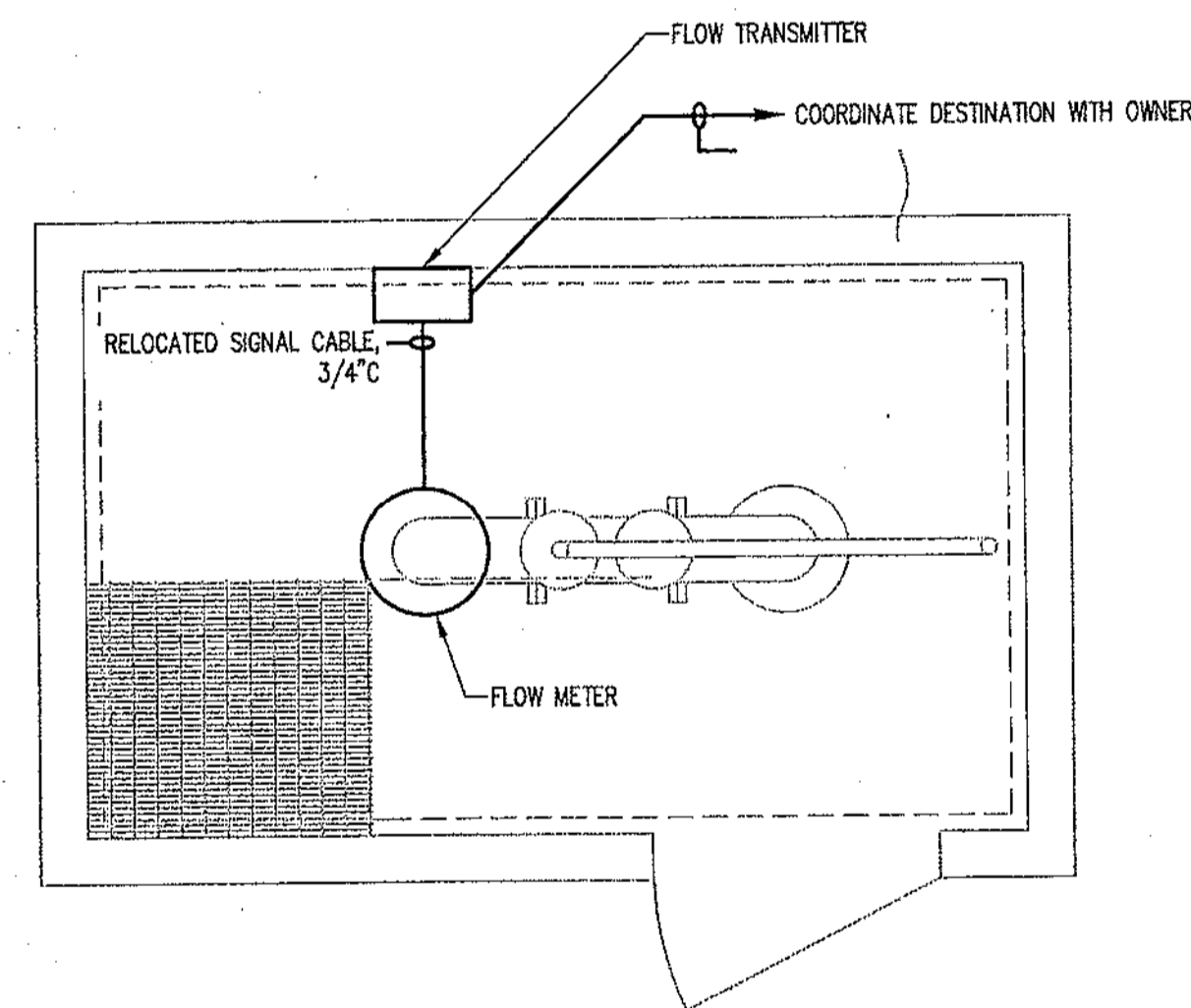
LIGHTING PLAN
FLOW METER BUILDING (MH27)
SCALE: NTS

CIRCUIT DIRECTORY			
1	LEFT OF PANEL - RECEPTILES TOWNSIDE	2	INSIDE & OUTSIDE LIGHTS
3		4	RIGHT OF PANEL RECEPTILES
5			EXIT-EMERGENCY LIGHT
6		7	ELECTRIC SPACE HEATER
8		9	ELECTRIC SPACE HEATER
10		11	FLOW METER
12		13	
14		15	

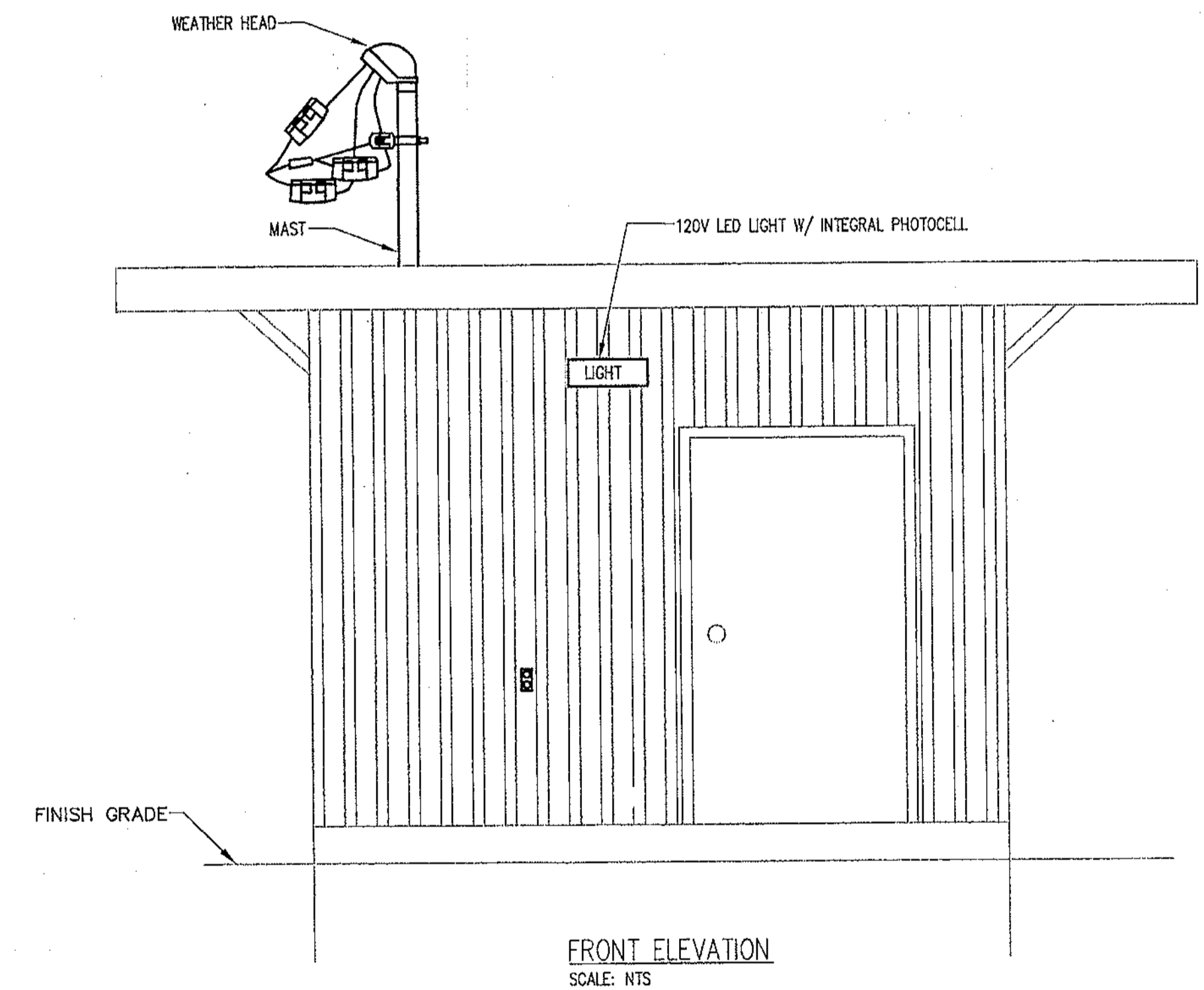
PANEL SCHEDULE
MAIN PANEL



GROUNDING PLAN
FLOW METER BUILDING (MH27)
SCALE: NTS



I&C PLAN
FLOW METER BUILDING (MH27)
SCALE: NTS



FRONT ELEVATION
SCALE: NTS

NOTES:

- TYPE "A" FIXTURES SHOWN SHALL BE MODEL NUMBER LUN4-2487BHO-EJ-PEBA AS MANUFACTURED BY COLUMBIA LIGHTING, OR APPROVED EQUAL. PROVIDE BACKUP BATTERY PACK FOR EGRESS LIGHTING REQUIREMENTS.
- TYPE "B" FIXTURE SHOWN SHALL BE MODEL NUMBER LMC-18LU-SK-E-2-PC(1) WITH PHOTOCELL AND POLYCARBONATE SHIELD AS MANUFACTURED BY HUBBELL, OUTDOOR LIGHTING, OR APPROVED EQUAL.
- PROVIDE ELECTRICAL SERVICE AND UTILITY METER PER ALL ELECTRICAL UTILITY (EMERA) REQUIREMENTS. COORDINATE WITH EMERA FOR ALL ELECTRICAL SERVICE WORK.
- MAINTAIN MINIMUM REQUIRED CLEARANCE IN FRONT OF MAIN PANEL AS INDICATED.
- GFCE RECEPTILES SHOWN SHALL BE PROVIDED WITH WEATHERPROOF IN-USE RATED COVERS.
- ELECTRICAL EQUIPMENT SHALL BE SURFACE MOUNTED.
- MAIN PANEL SHALL HAVE 100A RATED MAIN CIRCUIT BREAKER AND 100A RATED BUSES. IT SHALL HAVE 16 CIRCUITS MINIMUM AND BE RATED NEMA 12.
- BOND BUILDING REBAR, UTILITY METER, TRANSMITTER, PIPE AND PANEL TO SINGLE GROUND ROD ADJACENT TO BUILDING.
- RELOCATE EXISTING FLOW TRANSMITTER FROM PRESENT LOCATION. LOCATE TRANSMITTER ADJACENT TO FLOW METER SUCH THAT EXISTING CABLE CAN BE RE-PURPOSED. COORDINATE FLOW TRANSMITTER OUTPUT SIGNAL REQUIREMENTS WITH OWNER.

DISCLAIMER:

EXISTING BUILDING INFORMATION REPRODUCED FROM ORIGINAL PRINT.
MID-SOUTH ENGINEERING HAS NOT VERIFIED THE ACCURACY OF THE INFORMATION SUPPLIED FROM THIS DRAWING.

RECORD DRAWING

THIS DRAWING DEPICTS INFORMATION BASED ON OWNER'S RECORD COPY OF DRAWINGS, SPECIFICATIONS, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, AND OTHER WRITTEN INTERPRETATIONS AND CLARIFICATIONS, AS DELIVERED TO MID-SOUTH ENGINEERING AND ANNOTATED BY OWNER TO SHOW CHANGES MADE DURING CONSTRUCTION. THESE CHANGES MADE DURING CONSTRUCTION HAVE NOT BEEN VERIFIED BY MID-SOUTH ENGINEERING. THEREFORE MID-SOUTH ENGINEERING CANNOT SEAL THIS DRAWING. USE OF THIS INFORMATION SHALL BE AT THE USER'S RISK.

NO.	DATE	BY	DESCRIPTION
1	12/23/15	CJB	ISSUED RECORD DRAWING
0	6/23/15	GAC	ISSUED FOR CONSTRUCTION

REVISIONS	
1658 Malvern Ave. Hot Springs, Arkansas 71901 209 Mackenon Drive Carv, North Caroling 27511 70 Spring Street, Suite 3 Millinocket, Maine 04462 WWW.MSECO.COM	

LEACHATE PIPELINE RELOCATION GNP MILL FACILITY ELECTRICAL PLAN			
SEVEE & MAHER ENGINEERS, INC. EAST MILLINOCKET, MAINE			
SCALE	DRN.	GAC	6/17/15
NTS	APP.	DBM	6/18/15
			DRAWING NO. 6312-14001-E03

GENERAL NOTES

1. UTILITIES AND AGENCIES

BANGOR AND AROOSTOOK RAILROAD
 MAINE DEPARTMENT OF TRANSPORTATION - DIVISION OFFICE, BANGOR, MAINE
 BANGOR HYDRO-ELECTRIC CO. - ROUTE 2, LINCOLN, MAINE
 NYNEX
 DIG SAFE

2. NOTES

-REFER TO DRAWING YB-22974 FOR MANHOLE AND STRUCTURE SCHEDULE
 -PAVEMENT AND BASES REMOVED BY THE PIPELINE CONSTRUCTION SHALL BE REPLACED TO THE SAME THICKNESS OF THE ADJACENT LAYERS.
 -ALL AREAS DISTURBED BY THE PIPELINE CONSTRUCTION AND NOT RESURFACED SHALL BE COVERED WITH "WO (2)" INCHES OF LOAM, GRADED, SEEDED, AND MULCHED.
 -THRUST RESTRAINT REQUIRED ON ALL FORCE MAIN BENDS GREATER THAN 22.5'. SEE DETAIL YB-22977

LEGEND

	EXISTING	PROPOSED
STRUCTURES		
MANHOLE		
CONTOUR		211
WETLAND EDGE		
LEACHATE LINE		
SURVEY BASELINE		
TREE LINE		
OVERHEAD TELEPHONE		
UTILITY POLE		
TEST PIT		
WETLAND SETBACK BUFFER		
RAILROAD		
FILL OR CUT AREA (PROFILE)		

DATUM

HORIZONTAL DATUM FROM STATION 0+00 TO STATION 167+00 IS BASED ON MAINE STATE GRID (EAST ZONE) 1927 NORTH AMERICAN DATUM.
 VERTICAL DATUM FROM STATION 0+00 TO STATION 167+00 IS BASED ON NGVD83

HORIZONTAL AND VERTICAL CONTROL

SQUAW BAY CONTROL POINT #1 - BRASS DISK IN TOP OF CONCRETE MANHOLE ON WESTERLY SIDE OF LEACHATE POND.
 COORDINATES: NORTH 66463.732
 EAST 473626.762
 ELEVATION: 348.58
 IDENTIFICATION: "MON #1"

SQUAW BAY CONTROL POINT #2 - BRASS DISK IN TOP OF CONCRETE STATION ON SOUTHERLY SIDE OF LEACHATE POND.
 COORDINATES: NORTH 662871.733
 EAST 473745.058
 ELEVATION: 356.99
 IDENTIFICATION: "MON #2"

SQUAW BAY CONTROL POINT #3 - BRASS DISK IN TOP OF CONCRETE CHIMNEY ON NORTHWEST CORNER OF FIBER RECYCLE BUILDING.
 COORDINATES: NORTH 653349.302
 EAST 473333.704
 ELEVATION: 315.24
 IDENTIFICATION: CONTROL MON 7054

VERTICAL DATUM CONVERSION FACTOR
 TO CONVERT NGVD (29) TO "WELL DATUM, 400 1.59".
 TO CONVERT WELL DATUM TO NGVD (29) SUBTRACT 1.59".

TEMPORARY BENCHMARKS (TBM)
 TBM, PL-13 - TOP OF WALLER - ELEV. 306.56 - STA. 31+00, 45'.
 TBM, SCOUT RD - TOP OF GRIND STONE - ELEV. 309.70 - STA. 61+35, 50'.
 TBM, GREENWOOD BLDG - FAINT MARK ON BLDG ELEV. 307.41 - STA. 167+00 105'.



NO.	DATE	DESCRIPTION	BY	CHKD	APP'D
C	3/96	RECORD DRAWING	MSB	PBT	
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT	22846
B	4/95	ISSUED FOR BIDS	MSB	PBT	22846
P	4/25	PRELIMINARY CONSTRUCTION ISSUE	MSB	JRK	22846

SQUAW BAY CORP
 CONSULTING ENGINEERS

PO. BOX 164 CUMBERLAND CENTER, MAINE 04112

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APP'D		
ISSUE CHECK		
P - Plan	B - Bids	
W - W/TG	C - Const.	
CHK	N.T.S.	



EAST OPERATION
 LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION
 STA. 0+00 TO STA. 167+00
 8" FORCE MAIN
 INDEX, SYMBOLS, AND GENERAL NOTES

JOB NO. 22846
 ENG. REG. NO. 22846
 FILE NO. 2-092-4783

YB-22960
 SHEET 1 OF 1

INDEX

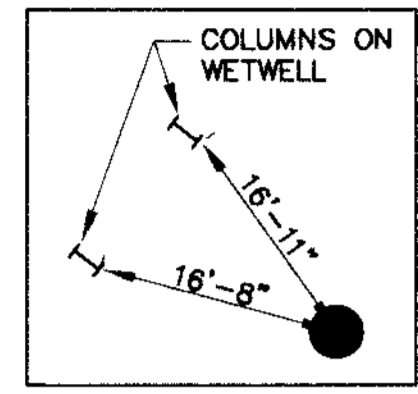
LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION

DRAWING NUMBER

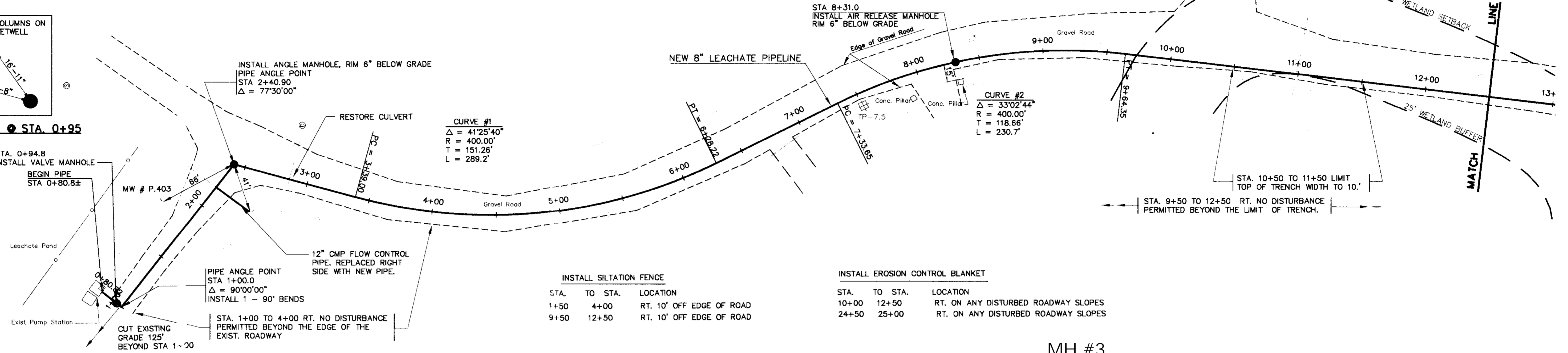
DRAWING TITLE

YB-22960	INDEX, SYMBOLS, AND GENERAL NOTES
YB-22961	PLAN / PROFILE 8" FORCE MAIN - STA. 0+80 TO STA. 12+50
YB-22962	PLAN / PROFILE 8" FORCE MAIN - STA. 12+50 TO STA. 25+00
YB-22963	PLAN / PROFILE 8" FORCE MAIN - STA. 25+00 TO STA. 37+50
YB-22964	PLAN / PROFILE 8" FORCE MAIN - STA. 37+50 TO STA. 50+00
YB-22965	PLAN / PROFILE 8" FORCE MAIN - STA. 50+00 TO STA. 62+50
YB-22966	PLAN / PROFILE 10" AND 12" GRAVITY TRANSITION - STA. 62+50 TO STA. 75+00
YB-22967	PLAN / PROFILE 10" GRAVITY SECTION STA. 75+00 TO STA. 87+50
YB-22968	PLAN / PROFILE 10" GRAVITY SECTION STA. 87+50 TO STA. 100+00
YB-22969	PLAN / PROFILE 10" GRAVITY SECTION STA. 100+00 TO STA. 112+50
YB-22970	PLAN / PROFILE 10" GRAVITY SECTION STA. 112+50 TO STA. 125+00
YB-22971	PLAN / PROFILE 10" GRAVITY SECTION STA. 125+00 TO STA. 137+50
YB-22972	PLAN / PROFILE 10" GRAVITY SECTION STA. 137+50 TO STA. 150+00
YB-22973	PLAN / PROFILE 10" GRAVITY SECTION STA. 150+00 TO STA. 162+50
YB-22974	PLAN / PROFILE 10" GRAVITY SECTION STA. 162+50 TO STA. 167+00
YB-22975 (1 OF 2)	MANHOLES AND STRUCTURES - MISCELLANEOUS DETAILS
YB-22975 (2 OF 2)	MANHOLES AND STRUCTURES - MISCELLANEOUS DETAILS
YB-22976	EXISTING PUMP STATION MODIFICATIONS - PLANS AND DETAILS
YB-22977	EROSION CONTROL AND MISCELLANEOUS DETAILS

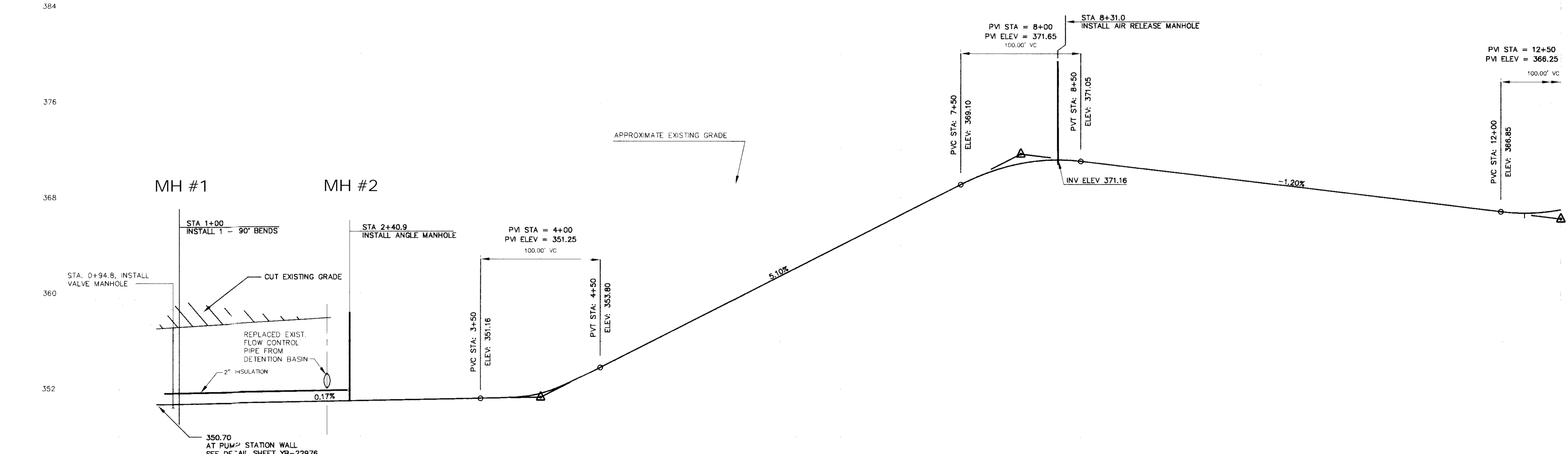
D:\94-229\ACAD\DWG\THU.PWP 20 07:50:05 1995



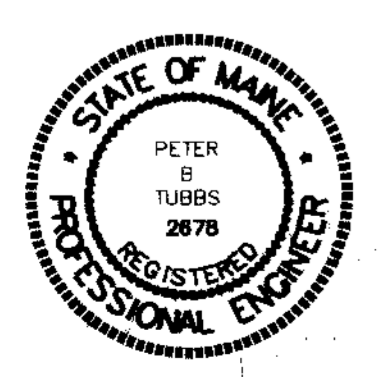
TIES TO MH @ STA. 0+95



MH #3



1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00	12+00												
350.73	350.82	350.91	350.99	351.08	351.16	351.87	353.80	356.35	358.90	361.45	364.00	366.55	369.10	370.86	371.05	369.85	369.85	369.25	368.65	368.05	367.45	366.85	367.01



YB-14801	DOLBY 3 LANDFILL, INTERPRETIVE GEOLOGIC PROFILES																								
YB-14800	DOLBY 3 LANDFILL, PHREATIC SURFACE MAP																								
YB-14799	DOLBY 3 LANDFILL, BEDROCK SURFACE TOPOGRAPHY MAP	C	3/96	RECORD DRAWING		MSB	PBT																		
YB-14797	DOLBY 3 LANDFILL, SITE DEVELOPMENT	C	6/95	ISSUED FOR CONSTRUCTION		BAK	PBT																		
YB-14796-A	DOLBY 3 LANDFILL, SITE DEVELOPMENT DETAILS	B	4/95	ISSUED FOR BIDS		MSB	PBT																		
YB-14795	DOLBY 3 LANDFILL, LEACHATE POND DETAILS	P	4/95	PRELIMINARY CONSTRUCTION ISSUE		RMC	PBT																		
SB-14888	DOLBY LANDFILL LEACHATE PUMP STATION, PLANS & SECTIONS	P	12/94	SUBMITTED W/ PERMIT APPLICATION		JRK	PBT																		

SQUAW BAY CORP
CONSULTING ENGINEERS

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- MH T.O.	C - Const.
1"=40H; 1"=4'V		

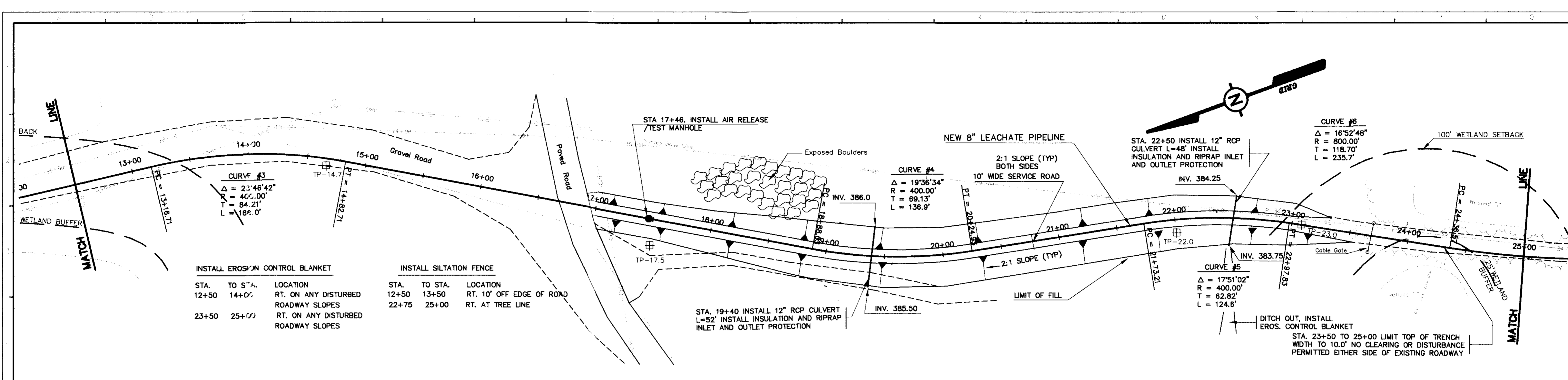
BOWATER

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 0+80.8 TO STA. 12+50
8" FORCE MAIN
PLAN & PROFILE

JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

YB-22961
SHEET 1 OF 1

DATE PLOTTED: 10/24/94 11:40:51 AM 5:10:46 PM 1994

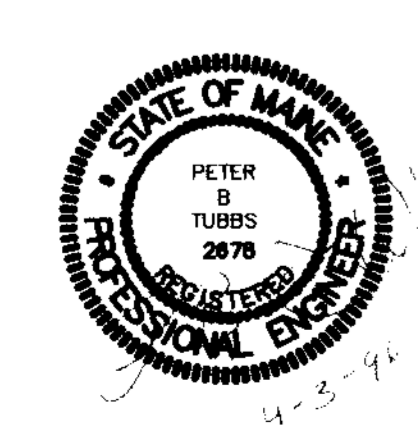
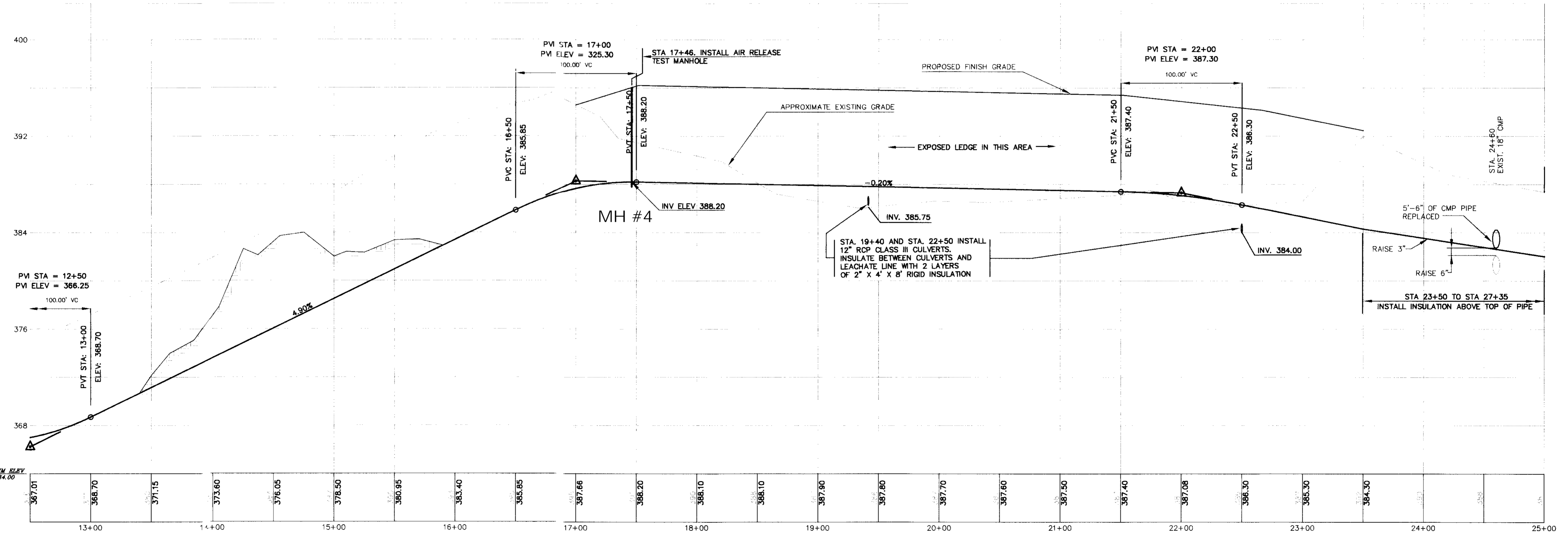


INSTALL EROSION CONTROL BLANKET

STA.	TO STA.	LOCATION
12+50	14+00	RT. ON ANY DISTURBED ROADWAY SLOPES
23+50	25+00	RT. ON ANY DISTURBED ROADWAY SLOPES

INSTALL SILTATION FENCE

STA.	TO STA.	LOCATION
12+50	13+50	RT. 10' OFF EDGE OF ROAD
22+75	25+00	RT. AT TREE LINE



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

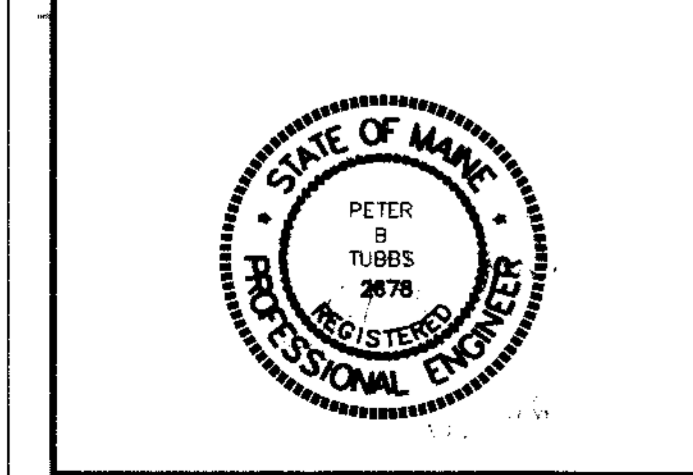
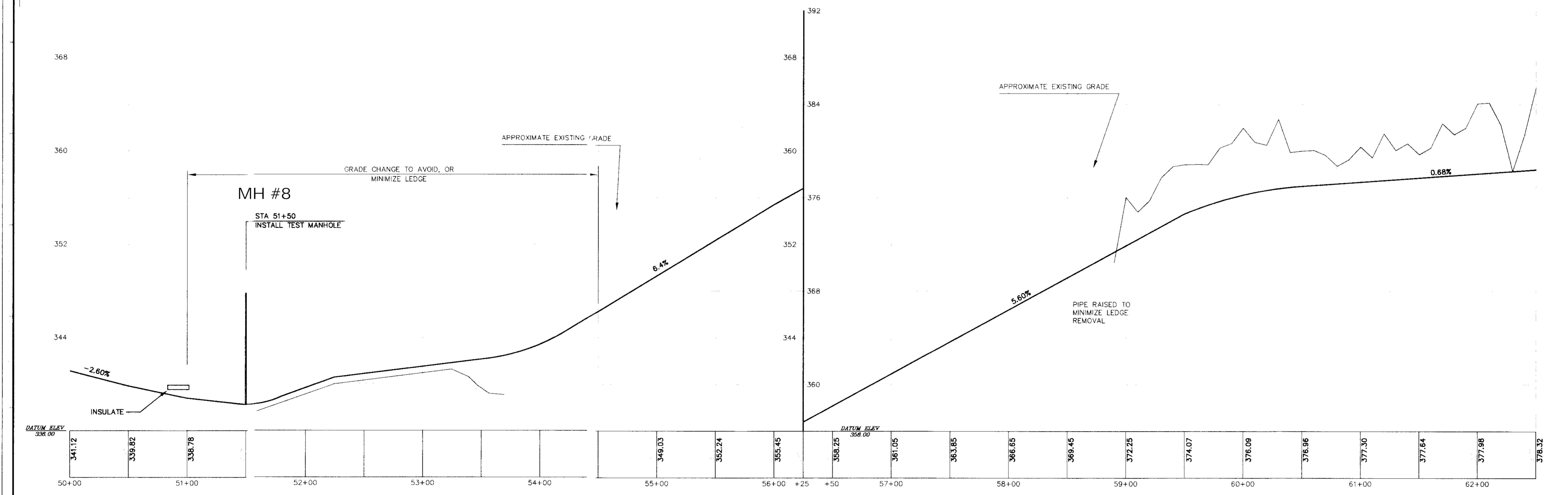
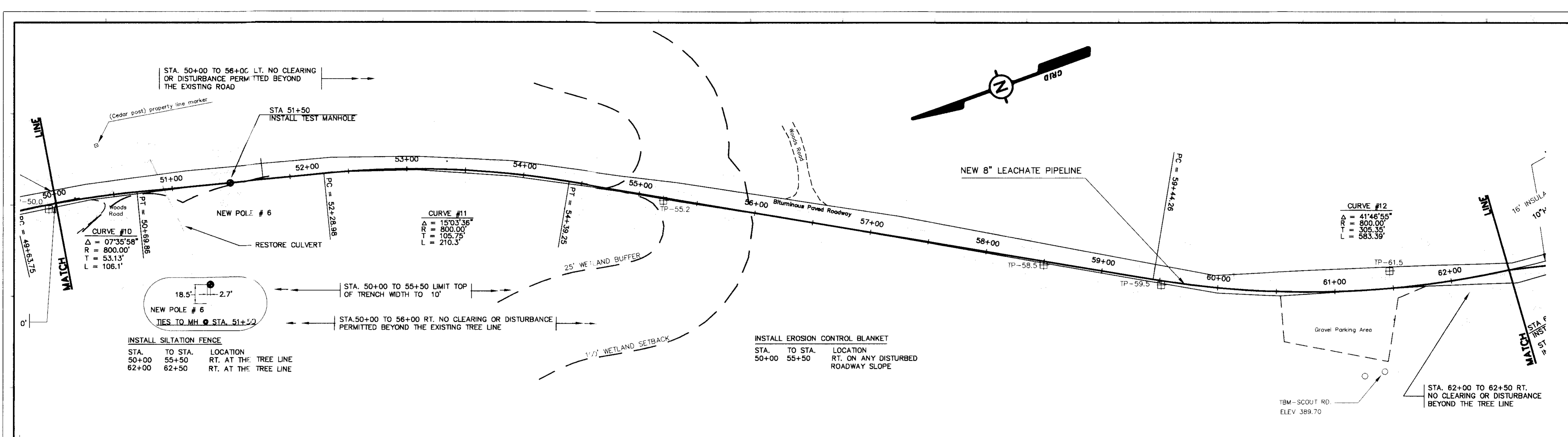
P.O. BOX 88A CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	Prelim B - Bids	
M	Mtl. I.D. C - Const.	
Scale: 1"=40'H; 1"=4'V		

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 12+50 TO STA. 25+00
8" FORCE MAIN
PLAN & PROFILE

JOB NO. 22846
ENG. REG. NO. YB-22962
FILE NO. 2-092-4783
SHEET 1 OF 1

L: 94-227 ACAD 9/22/94 Tue Mar 28 14:07:07 1996



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	REVISION DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	MSB	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

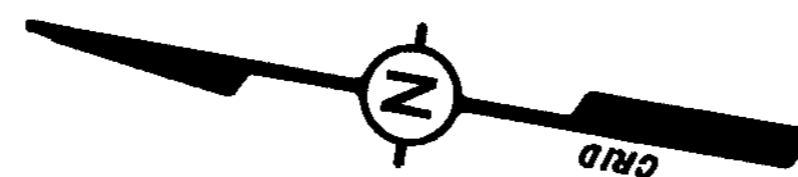
DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mt. T.O.	C - Const.
1"=40'H; 1"=4'V		

BOWATER

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 50+00 TO STA. 62+50
8" FORCE MAIN
PLAN & PROFILE

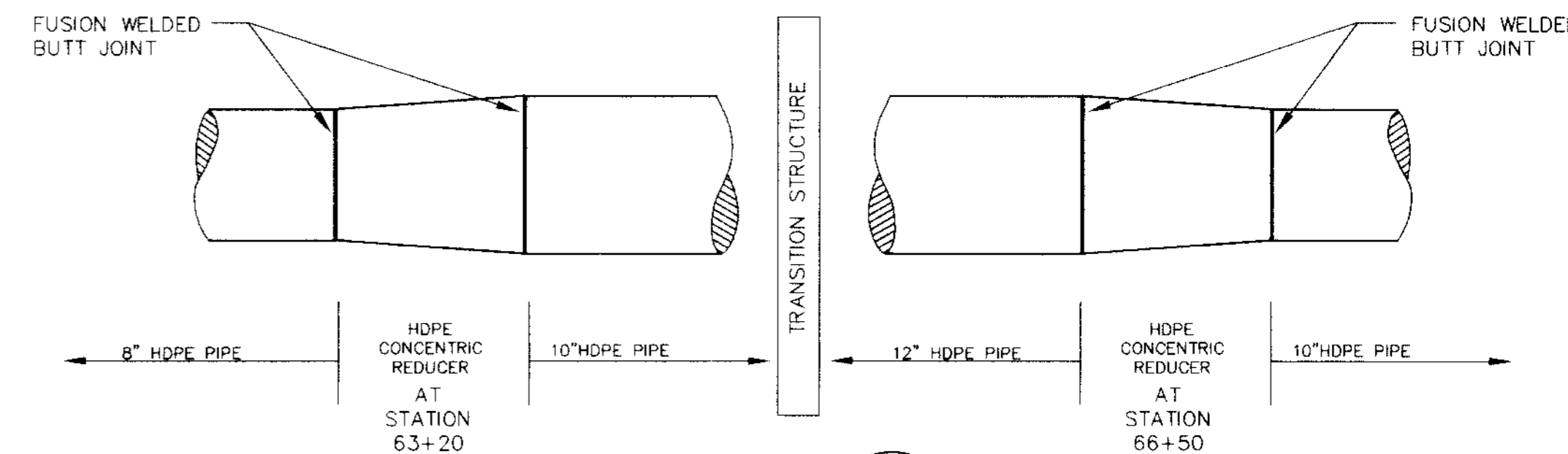
JOB NO. 22846
ENG. REQ. NO. YB-22965
FILE NO. 2-092-4783
SHEET 1 OF 1

94-22-A-40 9409/MSJ Rev. 40" 4 10 4 11 1995



TRANSITION STATION

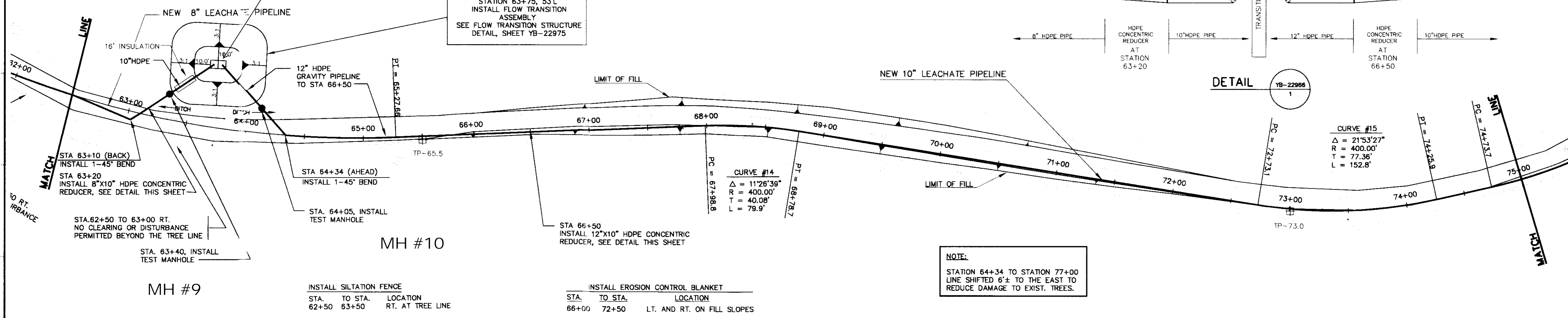
STATION 63+75, 53'L
INSTALL FLOW TRANSITION
ASSEMBLY
SEE FLOW TRANSITION STRUCTURE
DETAIL, SHEET YB-22975



DETAIL
YB-22966
1

CURVE #15
Δ = 21°53'27"
R = 400.00'
T = 77.36'
L = 152.8'

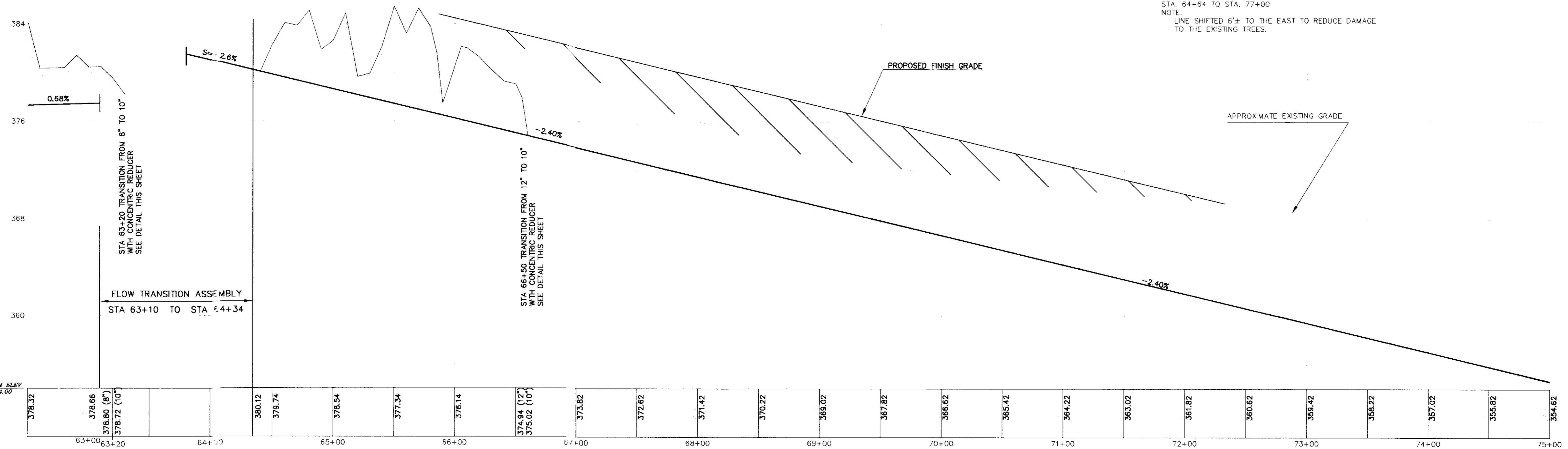
CURVE #14
Δ = 11°26'39"
R = 400.00'
T = 40.08'
L = 79.9'



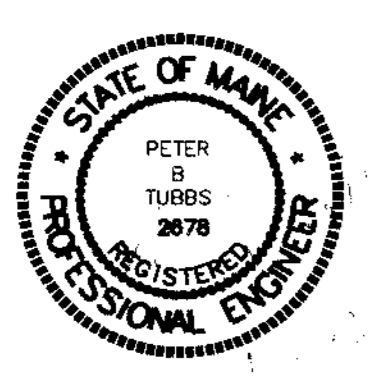
NOTE:
STATION 64+34 TO STATION 77+00
LINE SHIFTED 6'± TO THE EAST TO
REDUCE DAMAGE TO EXIST. TREES.

STA. 64+64 TO STA. 77+00
NOTE:
LINE SHIFTED 6'± TO THE EAST TO REDUCE DAMAGE
TO THE EXISTING TREES.

INSTALL SILTATION FENCE			INSTALL EROSION CONTROL BLANKET		
STA.	TO STA.	LOCATION	STA.	TO STA.	LOCATION
62+50	63+50	RT. AT TREE LINE	66+00	72+50	LT. AND RT. ON FILL SLOPES



DATUM ELEV	378.32	378.66	378.80 (8")	378.72 (10")	380.12	378.74	378.54	377.34	376.14	374.94 (12")	375.02 (10")	373.82	372.62	371.42	370.22	369.02	367.82	366.62	365.42	364.22	363.02	361.82	360.62	359.42	358.22	357.02	355.82	354.62
	63+00	63+20	64+00	64+00	65+00	65+00	66+00	66+00	67+00	67+00	68+00	68+00	69+00	69+00	70+00	70+00	71+00	71+00	72+00	72+00	73+00	73+00	74+00	74+00	75+00	75+00	75+00	



NO.	DATE	DESCRIPTION	BY	CHKD.
C	3/96	RECEIVED DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

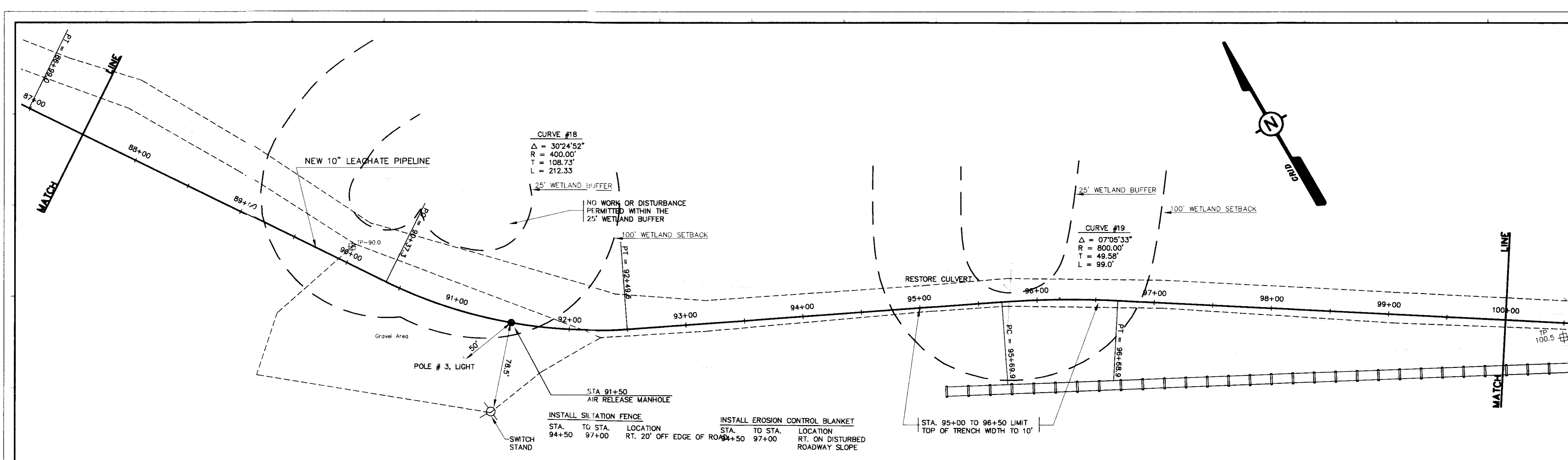


DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mtl T.O.	C - Const.
1"=40'H; 1"=4'V		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 62+50 TO STA. 75+00
8" FORCE MAIN/12" & 10" GRAVITY TRANSITION
PLAN & PROFILE
JOB NO. 22846
ENG. REG. NO. 2-092-4783
FILE NO. 2-092-4783
YB-22966
SHEET 1 OF 1

94 22966-A-09400-102 11-90 2 10/24/94



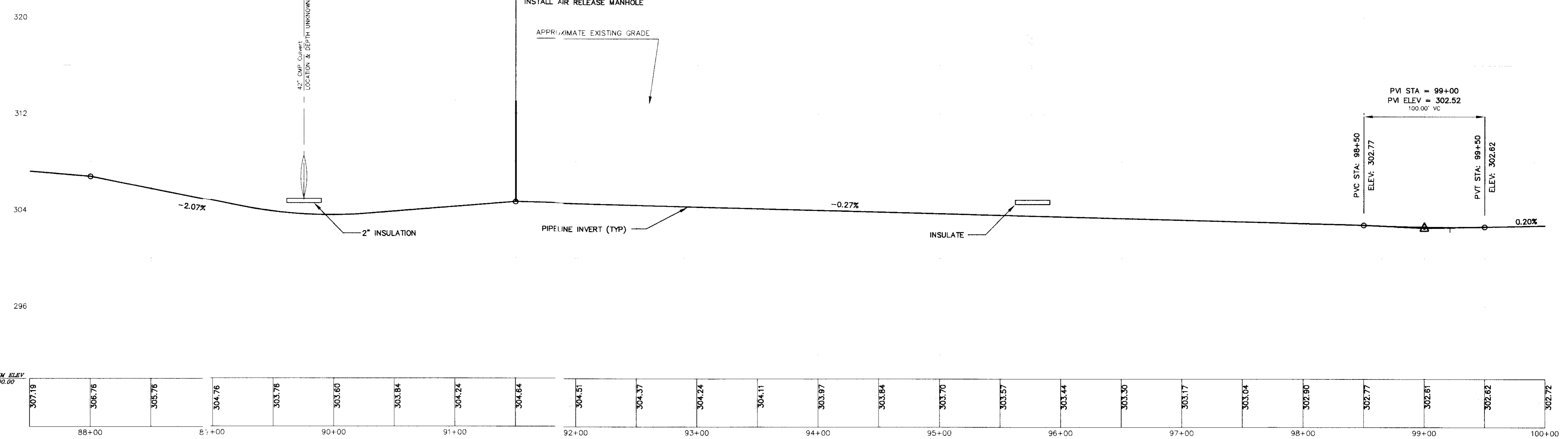
CURVE #18
 $\Delta = 30^{\circ}24'52''$
 $R = 400.00'$
 $T = 108.73'$
 $L = 212.33'$

CURVE #19
 $\Delta = 07^{\circ}05'33''$
 $R = 800.00'$
 $T = 49.58'$
 $L = 99.0'$

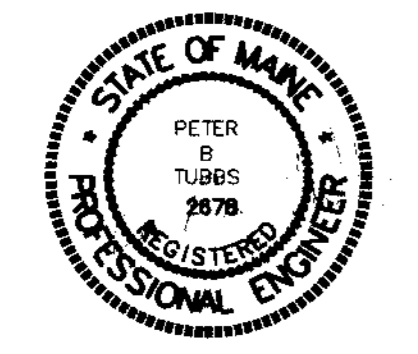
MH #13

STA 91+50
 INSTALL AIR RELEASE MANHOLE

APPROXIMATE EXISTING GRADE



STATION	ELEVATION
88+00	307.19
89+00	306.76
90+00	305.76
91+00	304.76
92+00	303.76
93+00	303.60
94+00	303.84
95+00	304.24
96+00	304.64
97+00	304.51
98+00	304.37
99+00	304.24
100+00	304.11



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
 CONSULTING ENGINEERS

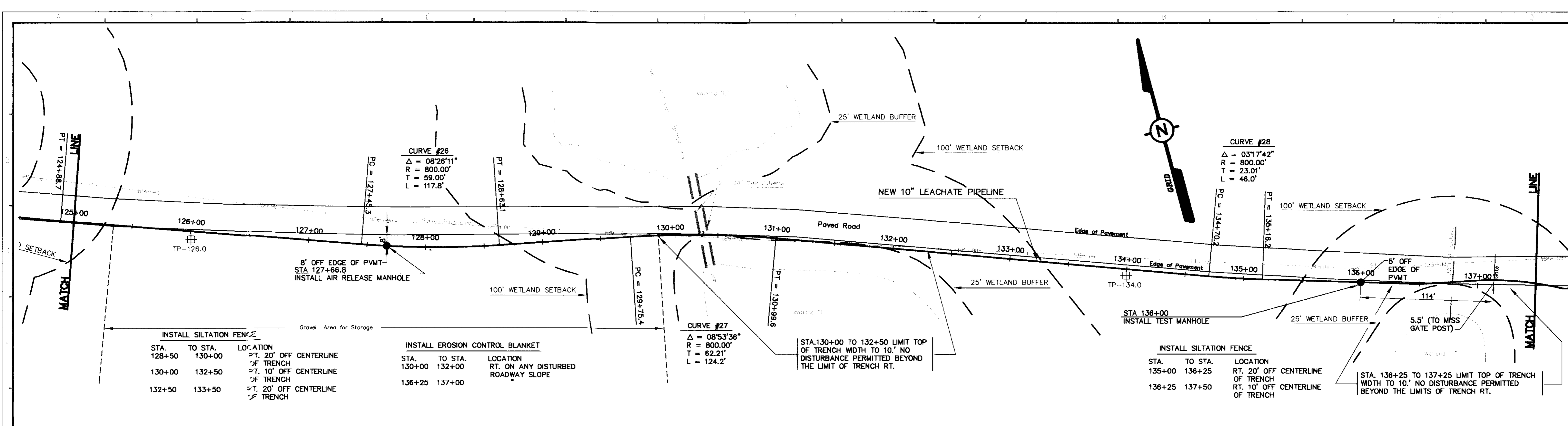
DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		

BOWATER

EAST OPERATION
 LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION
 STA. 87+50 TO STA. 100+00
 10" GRAVITY SECTION
 PLAN & PROFILE

JOB NO. 22846
 ENG. REQ. NO. YB-22968
 FILE NO. 2-092-4783
 SHEET 1 OF 1

15. 94-22 10-40-9402-012 10. 407 4-25-13 10 11946



INSTALL SILTATION FENCE

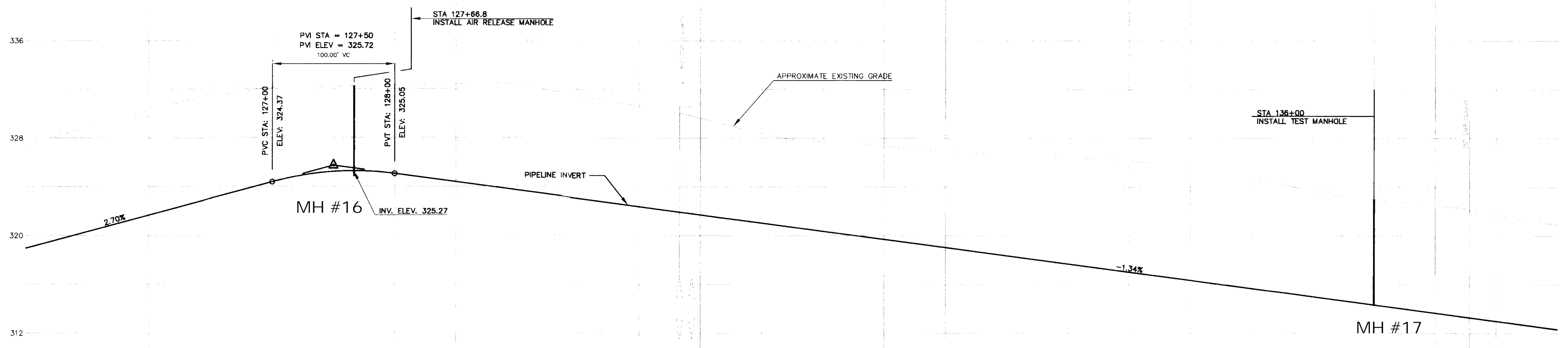
STA.	TO STA.	LOCATION
128+50	130+00	RT. 20' OFF CENTERLINE OF TRENCH
130+00	132+50	RT. 10' OFF CENTERLINE OF TRENCH
132+50	133+50	RT. 20' OFF CENTERLINE OF TRENCH

INSTALL EROSION CONTROL BLANKET

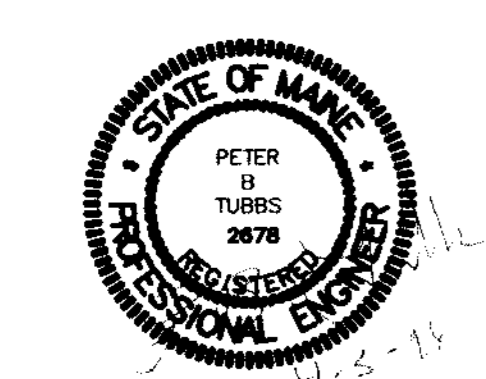
STA.	TO STA.	LOCATION
130+00	132+00	RT. ON ANY DISTURBED ROADWAY SLOPE
136+25	137+00	

INSTALL SILTATION FENCE

STA.	TO STA.	LOCATION
135+00	136+25	RT. 20' OFF CENTERLINE OF TRENCH
136+25	137+50	RT. 10' OFF CENTERLINE OF TRENCH



DATUM ELEV	318.97	320.32	321.67	323.02	324.37	325.72	325.05	324.38	323.71	323.04	322.37	321.70	321.03	320.36	319.69	319.02	318.35	317.68	317.01	316.34	315.67	315.00	314.33	313.66	312.99	312.32
STA.	125+00	126+00	127+00	128+00	129+00	130+00	131+00	132+00	133+00	134+00	135+00	136+00	137+00													



NO.	DATE	DESCRIPTION	BY	CHKD.
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

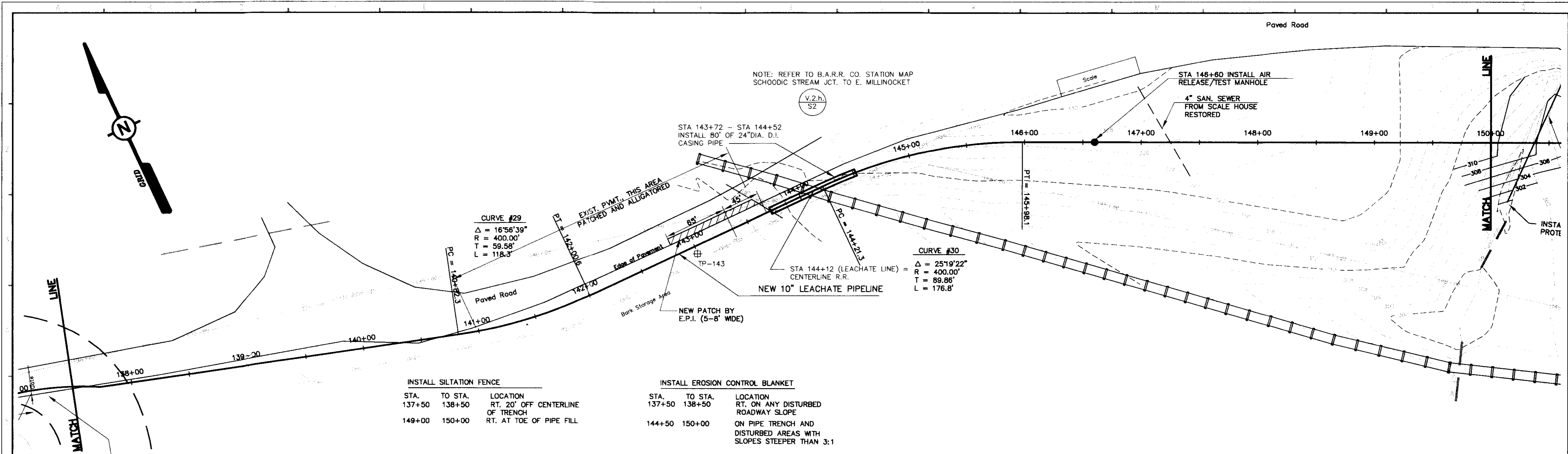
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mt. T.O.	C - Const.
SCALE 1"=40'; 1"=4'V		

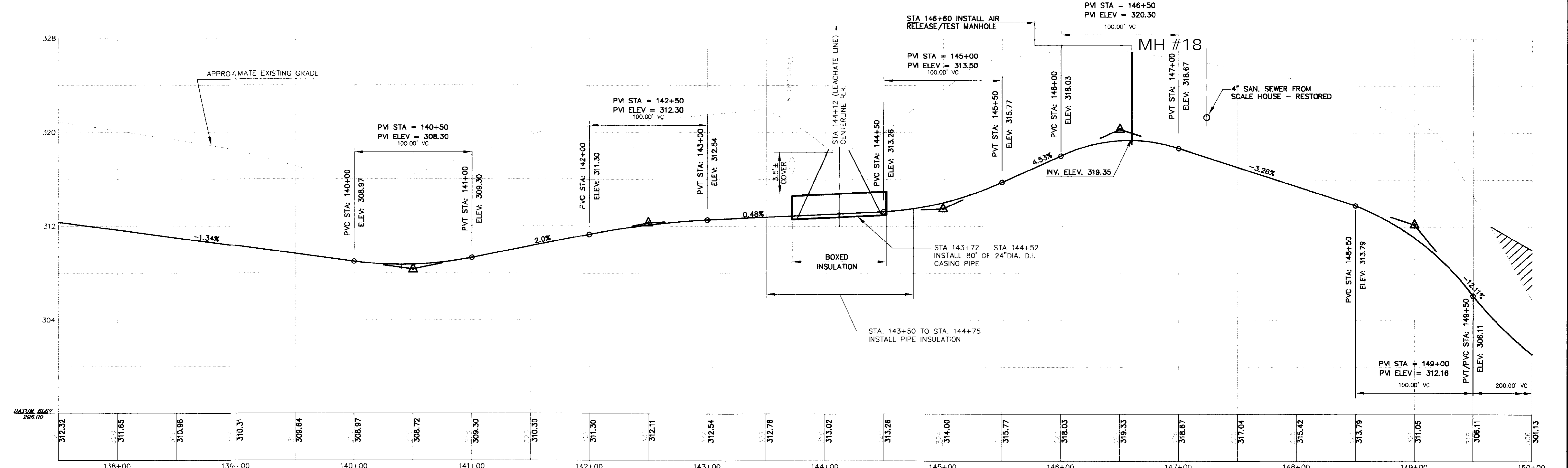
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 125+00 TO STA. 137+50
10' GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REG. NO. YB-22971
FILE NO. 2-092-4783
SHEET 1 OF 1

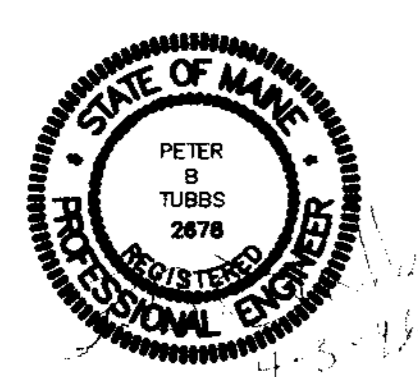
3: 54-227\ALAD 9402.M12 Thu Mar 26 15:04:11 1998



INSTALL SILTATION FENCE			INSTALL EROSION CONTROL BLANKET		
STA.	TO STA.	LOCATION	STA.	TO STA.	LOCATION
137+50	138+50	RT. 20' OFF CENTERLINE OF TRENCH	144+50	150+00	RT. ON ANY DISTURBED ROADWAY SLOPE
149+00	150+00	RT. AT TOE OF PIPE FILL			ON PIPE TRENCH AND DISTURBED AREAS WITH SLOPES STEEPER THAN 3:1



STATION	ELEVATION
137+00	312.32
138+00	311.65
139+00	310.96
140+00	310.31
141+00	309.64
142+00	308.97
143+00	308.72
144+00	309.30
145+00	310.30
146+00	311.30
147+00	312.11
148+00	312.54
149+00	312.78
150+00	313.02
151+00	313.26
152+00	314.00
153+00	315.77
154+00	318.03
155+00	319.33
156+00	318.67
157+00	317.04
158+00	315.42
159+00	313.79
160+00	311.05
161+00	306.11
162+00	301.13



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P	3/15/95	SUBMITTED FOR R.R. APPROVAL	PBT	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86 CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mt. T.O.	C - Const.
1"=40' HORIZ, 1"=4' VERT		

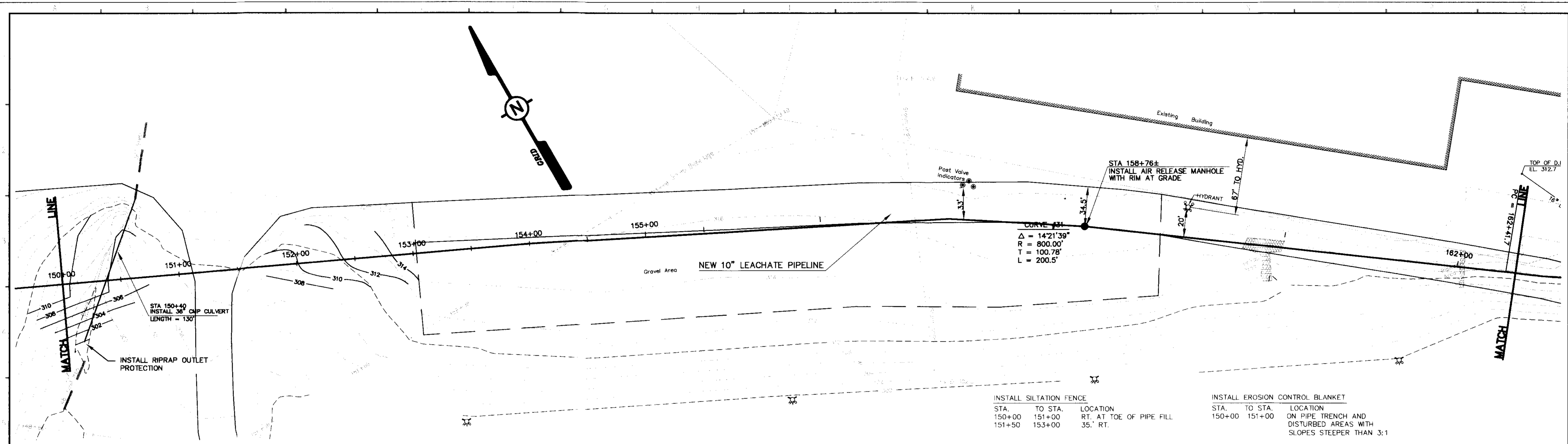
BOWATER
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 137+50 TO STA. 150+00
10' GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

YB-22972
SHEET 1 OF 1

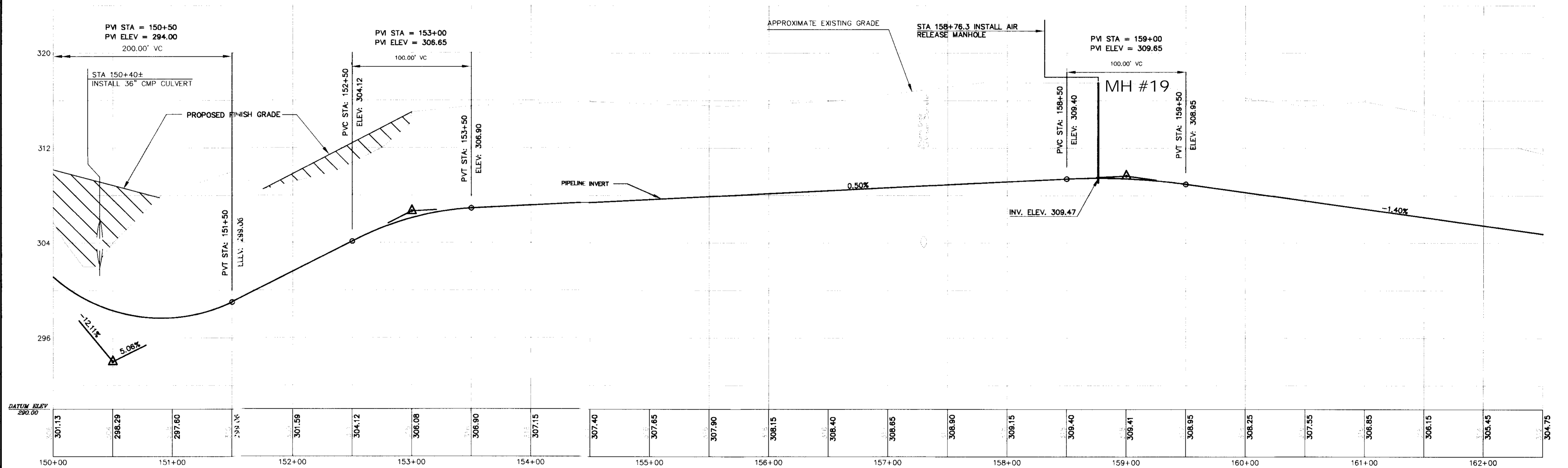
34-227-ACAD-9402-PL2 Thu Mar 26 15:25:33 1996



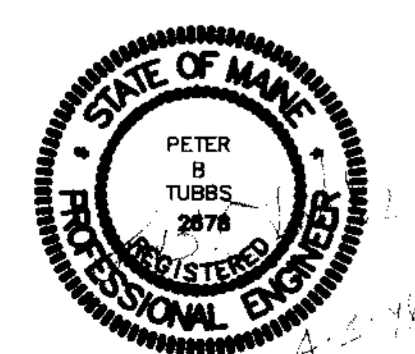
INSTALL SILTATION FENCE
 STA. TO STA. LOCATION
 150+00 151+00 RT. AT TOE OF PIPE FILL
 151+50 153+00 35.' RT.

INSTALL EROSION CONTROL BLANKET
 STA. TO STA. LOCATION
 150+00 151+00 ON PIPE TRENCH AND
 DISTURBED AREAS WITH
 SLOPES STEEPER THAN 3:1

CURVE DATA
 $\Delta = 142'139''$
 $R = 800.00'$
 $T = 100.78'$
 $L = 200.5'$



STATION	150+00	151+00	152+00	153+00	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00	162+00													
ELEVATION	301.13	296.29	297.60	299.16	301.59	304.12	306.08	306.90	307.15	307.40	307.65	307.90	308.15	308.40	308.65	308.90	309.15	309.40	309.41	308.95	308.25	307.55	306.85	306.15	305.45	304.75



NO.	DATE	DESCRIPTION	BY	CHK
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	MSB	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
 CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

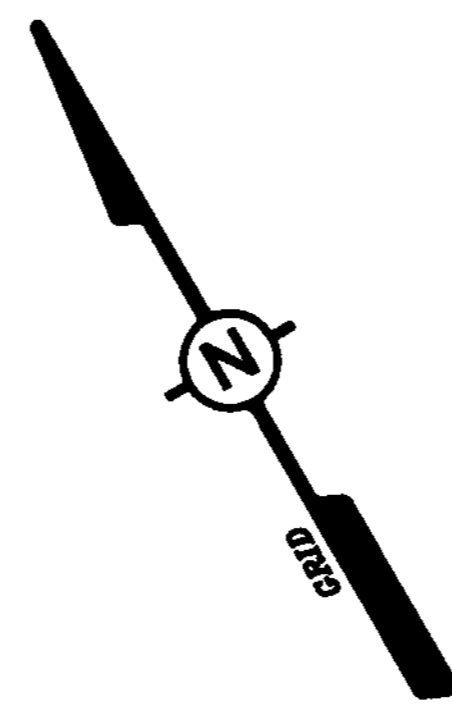
DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		

EAST OPERATION
 LEACHATE PIPELINE PROJECT
 DOLBY LANDFILL TO THE EAST OPERATION
 STA. 150+00 TO STA. 162+50
 10' GRAVITY SECTION
 PLAN & PROFILE

JOB NO. 22846
 ENG. REQ. NO.
 FILE NO. 2-092-4783

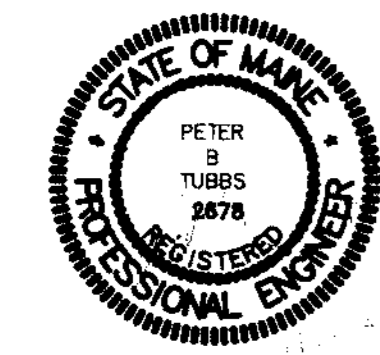
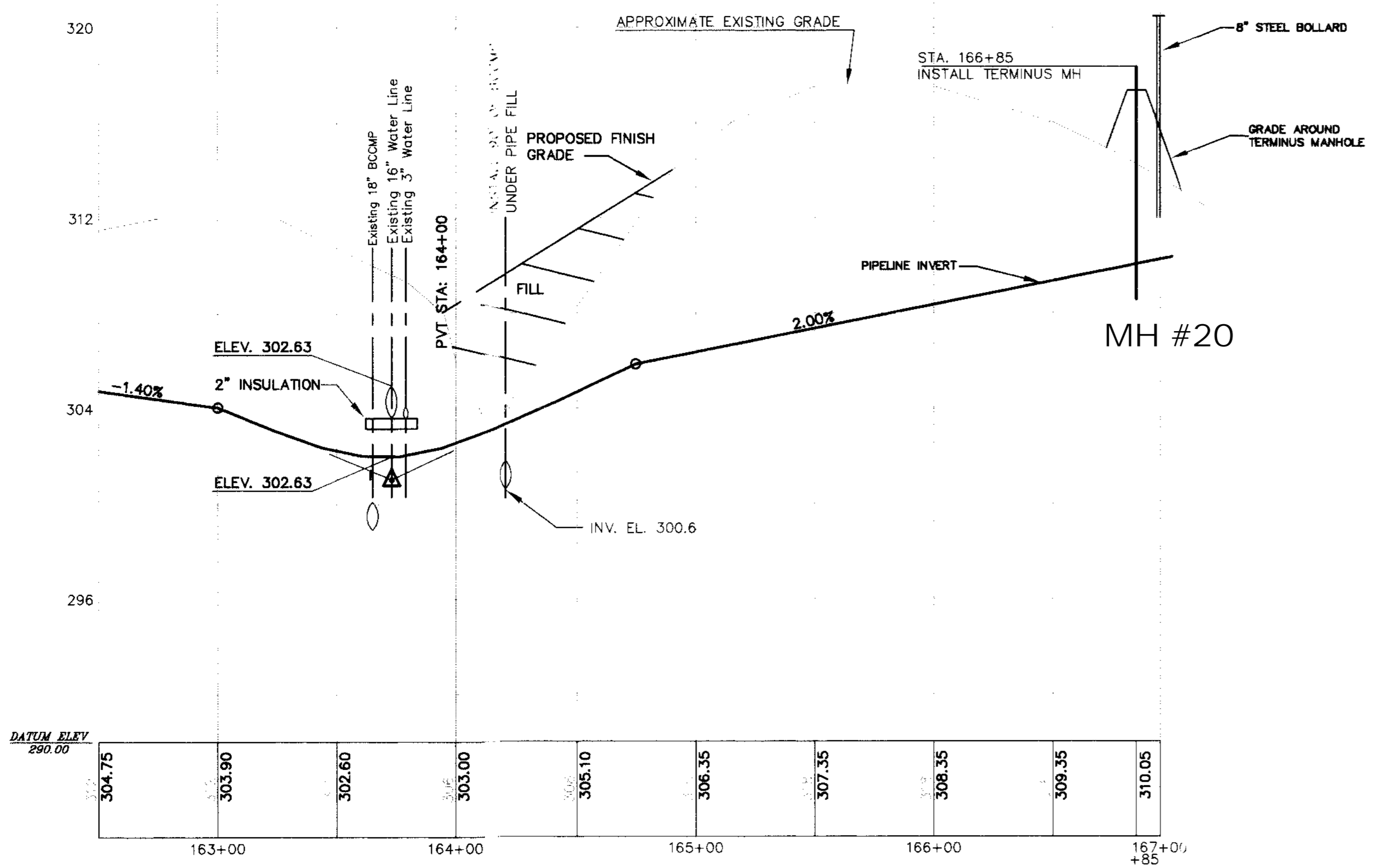
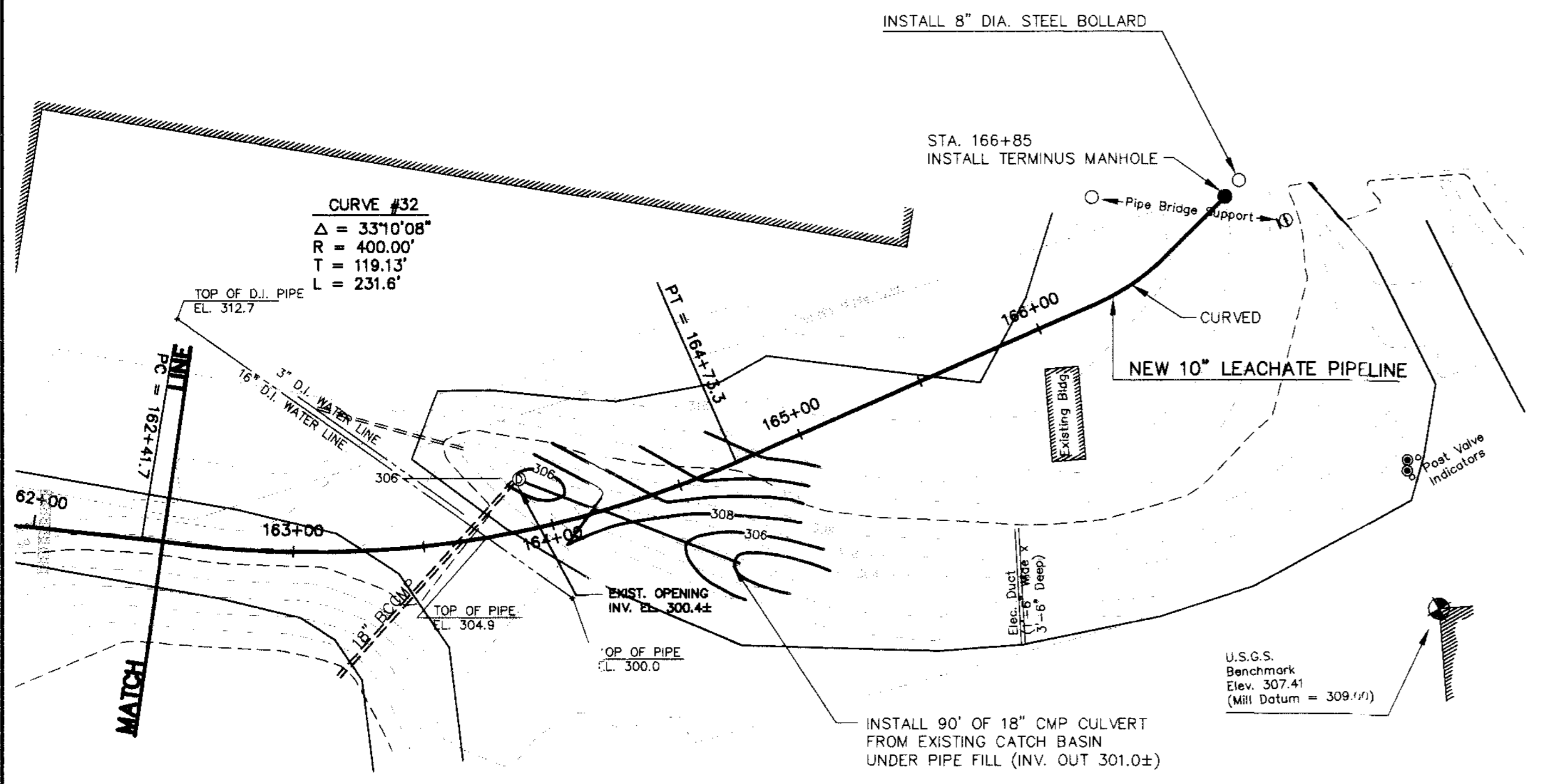
YB-22973
 SHEET 1 OF 1

D:\394-227\ACAD\9422\112 Thu Mar 26 15:34:14 1996



MANHOLE AND STRUCTURE SCHEDULE

STATION	TYPE	SIZE	DESCRIPTION
0+95	CIRCULAR	8' DIA.	GATE AND CHECK VALVE
2+41	CIRCULAR	6' DIA.	ANGLE
8+31	CIRCULAR	6' DIA.	AIR RELEASE
17+46	CIRCULAR	8' DIA.	AIR RELEASE / TEST
34+96	CIRCULAR	8' DIA.	ANGLE / TEST
38+94	CIRCULAR	4' DIA.	ANGLE
41+00	CIRCULAR	4' DIA.	ANGLE
51+50	CIRCULAR	8' DIA.	TEST
63+40	CIRCULAR	8' DIA.	TEST
63+75, 53' LT.	RECTANGULAR	6' X 12'	FLOW TRANSITION STRUCTURE
64+05	CIRCULAR	8' DIA.	TEST
78+35	CIRCULAR	4' DIA.	ANGLE
85+30	CIRCULAR	8' DIA.	TEST
91+50	CIRCULAR	4' DIA.	AIR RELEASE
108+00	CIRCULAR	8' DIA.	TEST
127+67	CIRCULAR	6' DIA.	AIR RELEASE
136+00	CIRCULAR	8' DIA.	TEST
120+00	CIRCULAR	4' DIA.	JUNCTION
146+60	CIRCULAR	8' DIA.	AIR RELEASE / TEST
158+76	CIRCULAR	6' DIA.	AIR RELEASE
166+85	CIRCULAR	8' DIA.	VALVE



NO.	DATE	DESCRIPTION	BY	CHECKED
C	3/96	RECORD DRAWING	MSB	PBT
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT
B	4/95	ISSUED FOR BIDS	RMC	PBT
P	4/95	PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT
P		SUBMITTED W/ PERMIT APPLICATION	JRK	PBT

SQUAW BAY CORP
CONSULTING ENGINEERS

P.O. BOX 86A CUMBERLAND CENTER, MAINE 04023

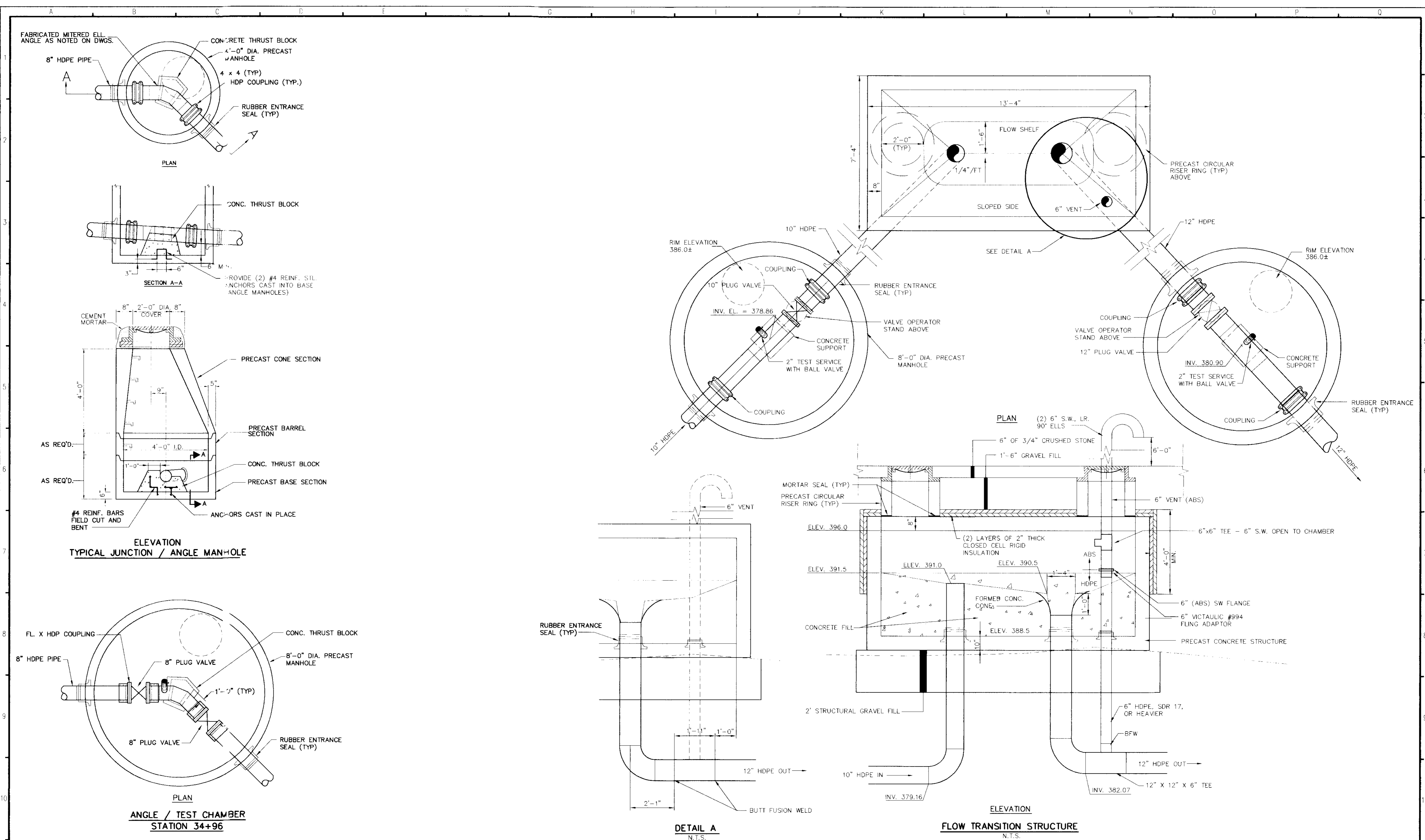
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CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	Preim	B - Bids
M	M - T.O.	C - Const.
SCALE	1"=40'H; 1"=4'V	



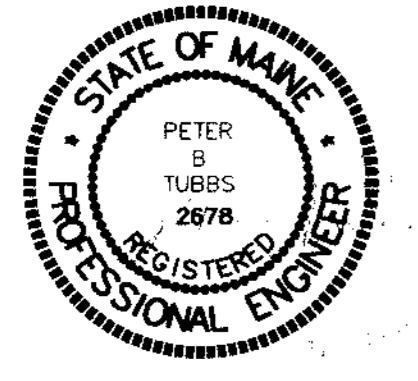
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 162+50 TO STA. 167+00
10' GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REQ. NO. YB-22974
FILE NO. 2-092-4783
SHEET 1 OF 1

D. 94-207 ACAD/3422/312 IHL A04 4 09 33 41 1096



L 54-227 JAC/UE/LAL-2 Thu Mar 26 07:33:46 1998



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB NO.
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		C	6/95		ISSUED FOR CONSTRUCTION	BAK	PBT		
		B	4/95		ISSUED FOR BIDS	MSB	PBT		
		P	4/95		PRELIMINARY CONSTRUCTION ISSUE	MSB	PBT		

SQUAW BAY CORP
CONSULTING ENGINEERS

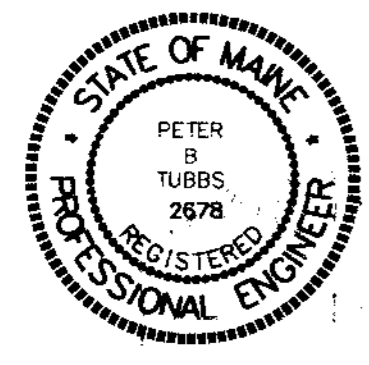
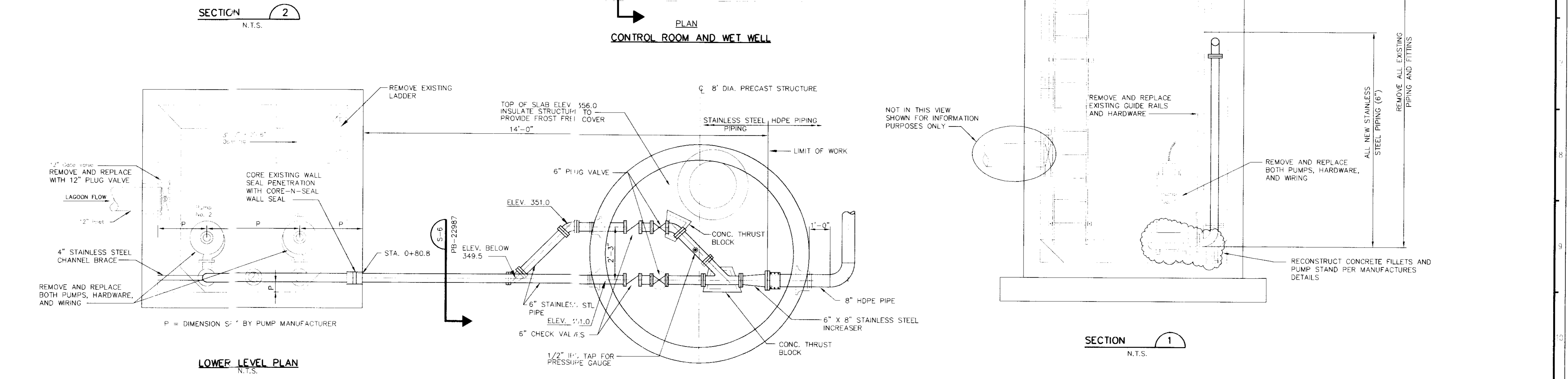
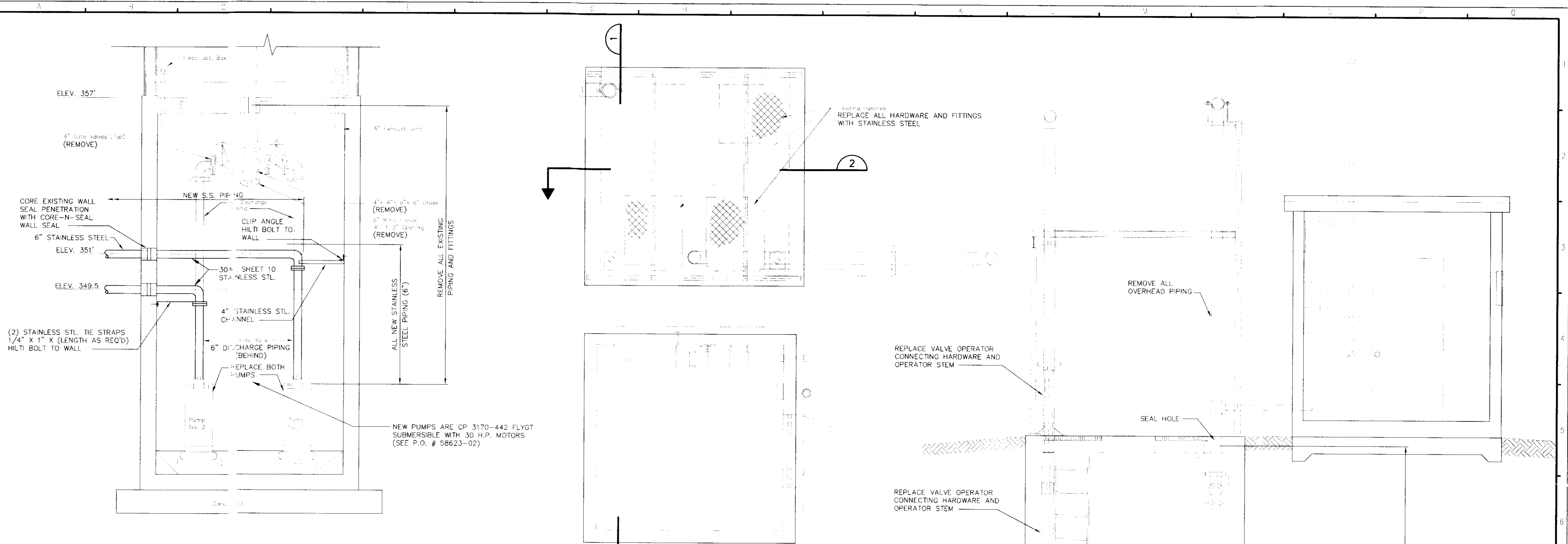
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	MSB	4/95
CHK	PBT	4/95
CHK		
APPVD		
ISSUE CODE		
P	Prelim	B - Bids
M	MH T.O.	C - Const.
SCALE AS NOTED		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
MANHOLES AND STRUCTURES
MISCELLANEOUS DETAILS

JOB NO. 22846
ENG. REQ. NO. YB-22975
FILE NO. 2-092-4783
SHEET 1 OF 2



NO.	DATE	BY	CHK.	APP'D.	JOB NO.
C	3/96	RECORD DRAWING	MSB	PBT	
C	6/95	ISSUED FOR CONSTRUCTION	BAK	PBT	
B	6/95	ISSUED FOR BIDS	MSB	PBT	
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SQUAW BAY CORP
CONSULTING ENGINEERS



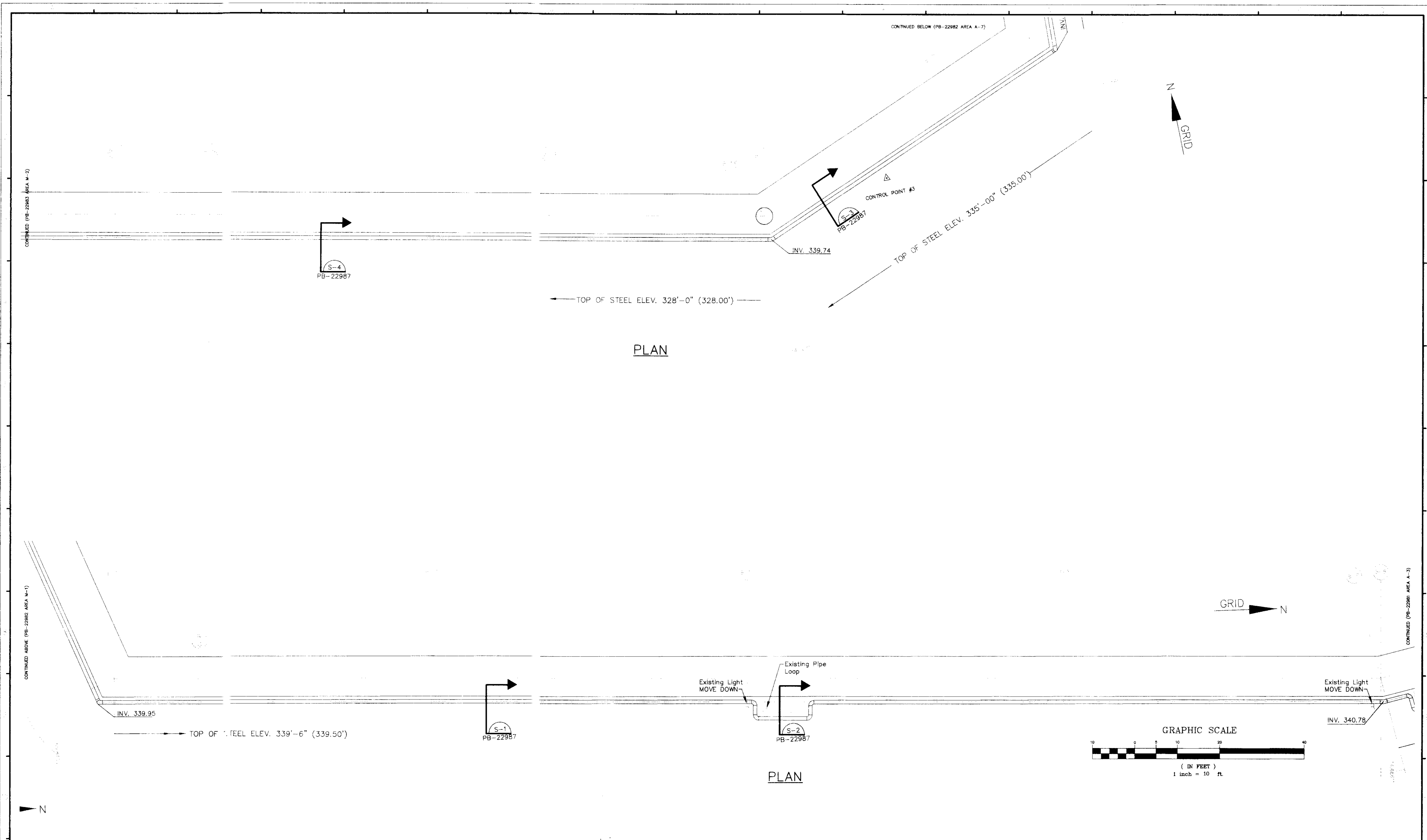
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APPVD		
ISSUE CODE		
P	Prelim	B - Bids
M	Mil. T.O.	C - Const.
SCALE AS NOTED		



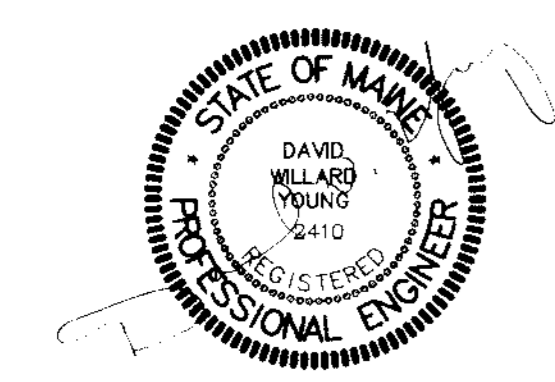
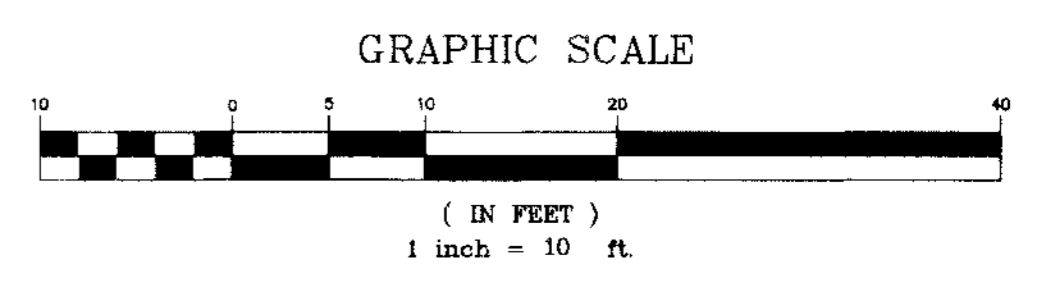
EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
EXISTING PUMP STATION MODIFICATIONS
PLANS AND SECTIONS

JOB NO. 22846
ENG. REQ. NO. YB-22976
FILE NO. 2-092-4783



PLAN

PLAN



NO.	DATE	DESCRIPTION	BY	CHK
PF-01833-C	8/17/95	ISSUED FOR CONSTRUCTION	MSB	DWY
PF-01833-B	8/8/95	FOR CLIENT REVIEW	MSB	DWY
PF-01834-B	5/26/95	FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS



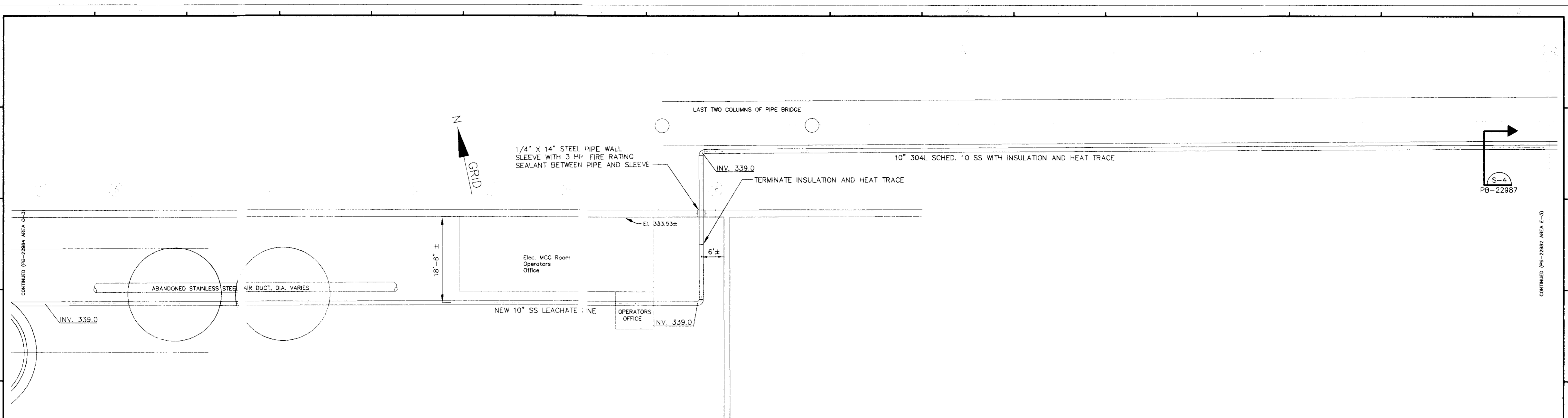
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mt. I.O.	C - Const.	
1" = 10'		

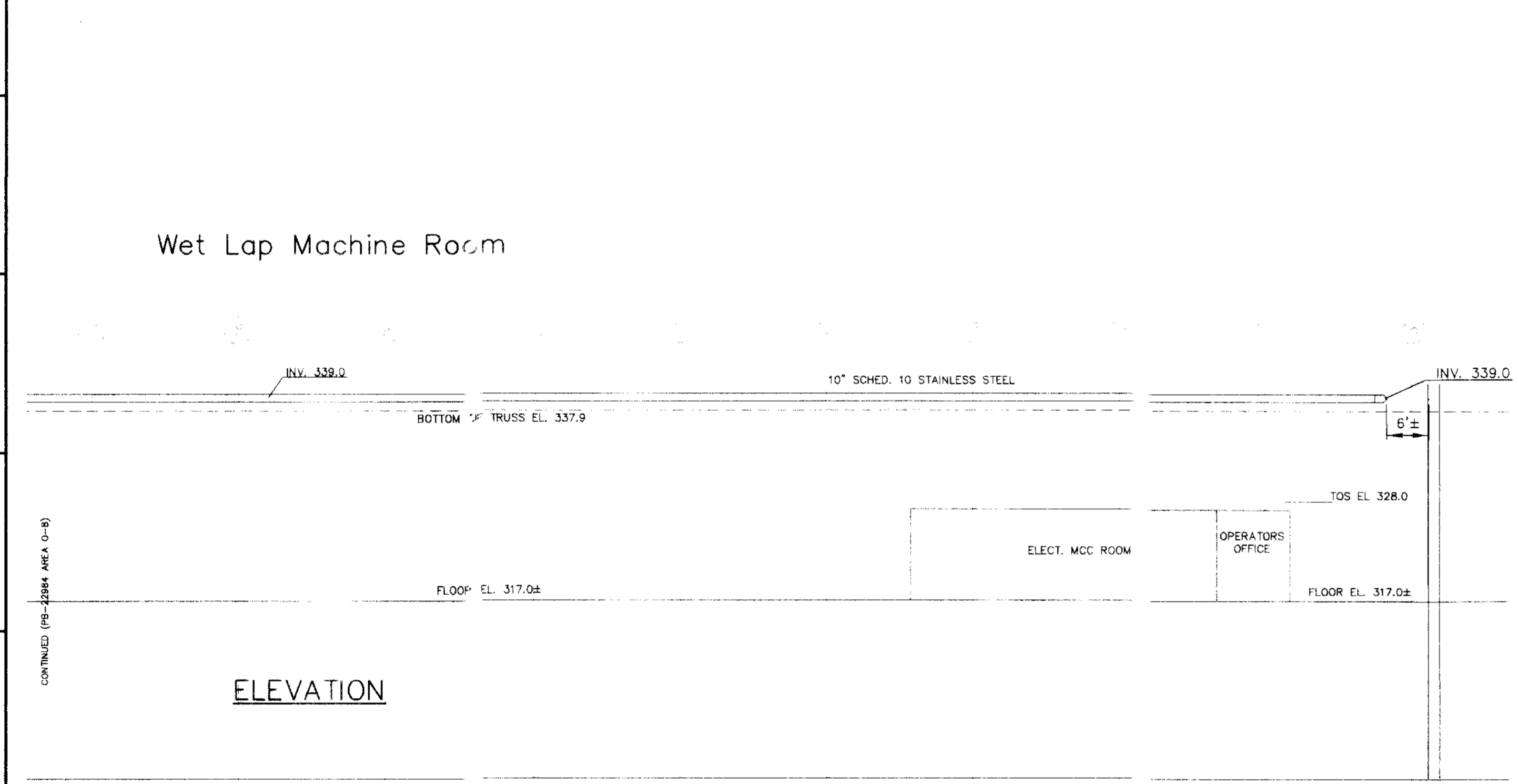


EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
PIPE BRIDGE
10" GRAVITY SEWER

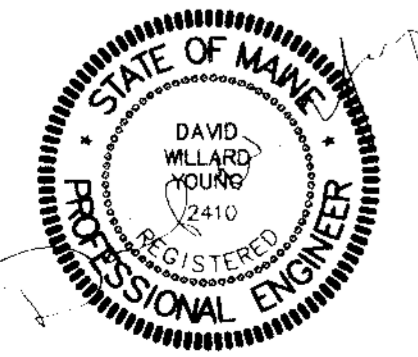
JOB NO. 22846
ENG. REQ. NO. 2-092-4783
SHEET 2 OF 8



PLAN



ELEVATION



PF-01634-B	SIMPSONS ENGINEERING/RECYCLE FIBER PLANT	8/17/95	ISSUED FOR CONSTRUCTION	BDB	DWY
		8/8/95	ISSUED FOR CLIENT REVIEW		
		5/26/95	ISSUED FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

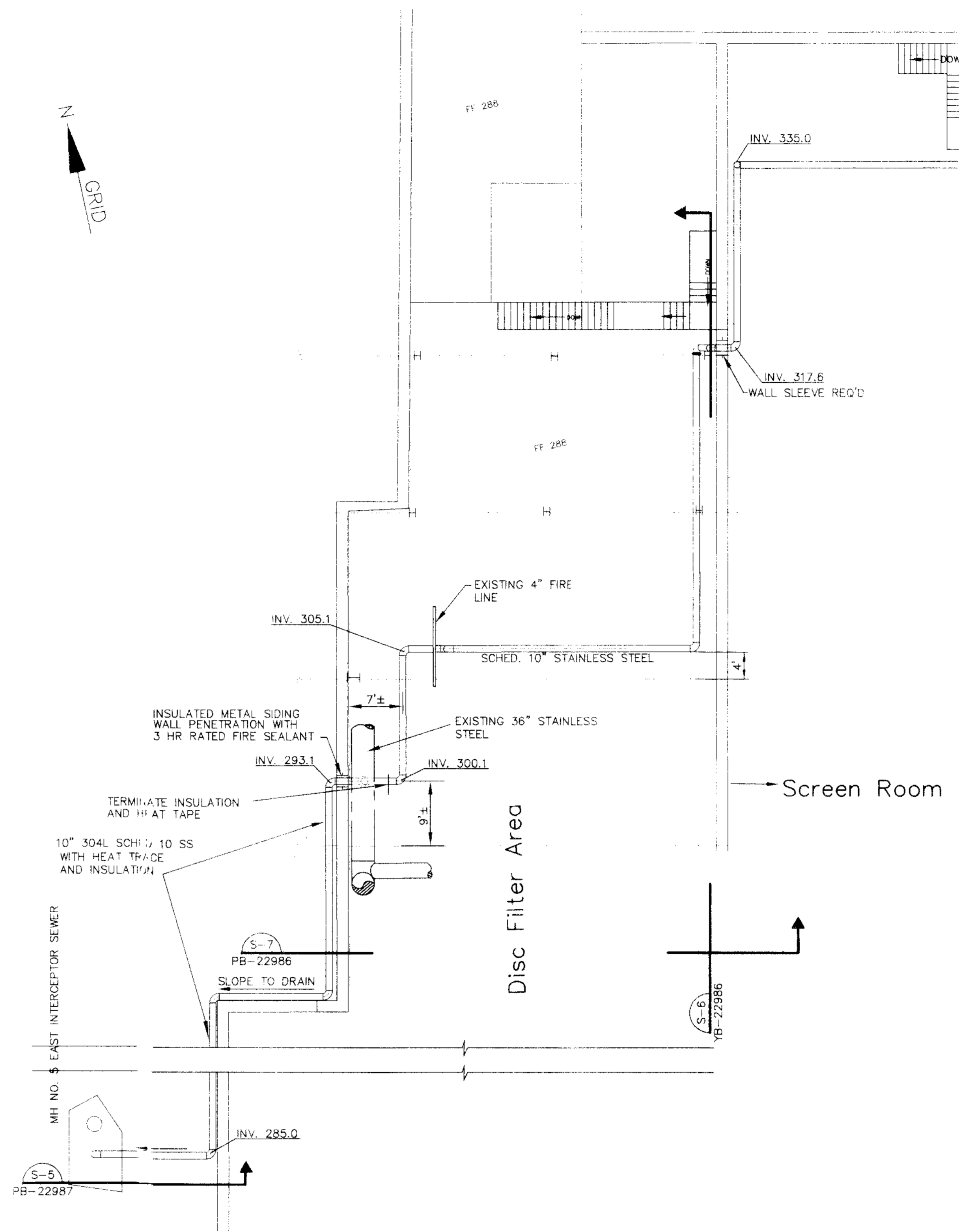
DRN	DWY	5/95
CHK		
CHK		
CORR		
APPROV		
ISSUED FOR CONSTRUCTION		
P - Prelim	B - Bids	
M - Mt. T.O.	C - Const.	
1" = 10'		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
PIPE BRIDGE AND WET LAP ROOM
10" GRAVITY SEWER

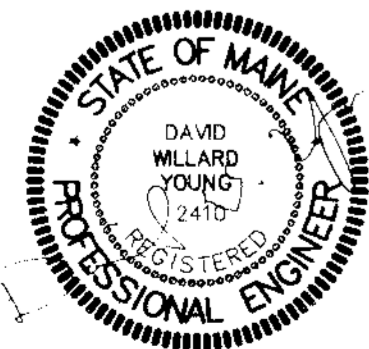
JOB NO. 22846
ENG. REG. NO.
FILE NO. 2-092-4783

SHEET 3 OF 8



CONTINUED (PB-22984 AREA C-3)

PLAN



NO.	DATE	DESCRIPTION	BY	CHECKED
AF-375-E		SIMONS ENGINEERING/DISC FILTER BLDG.		
YF-719-F		SIMONS ENGINEERING/GROUND WOOD IMPROVEMENTS STEEL @ EL 310		
YF-725-B		SIMONS ENGINEERING/EAST INTERCEPTOR SEWER		
YF-696-B		SIMONS ENGINEERING/EAST INTERCEPTOR SEWER		

NO.	DATE	DESCRIPTION	BY	CHECKED
C	8/17/95	ISSUED FOR CONSTRUCTION	BDG	DWY
P	8/8/95	ISSUED FOR CLIENT REVIEW	MSB	DWY
P	5/25/95	ISSUED FOR CLIENT REVIEW	MSB	DWY

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04023

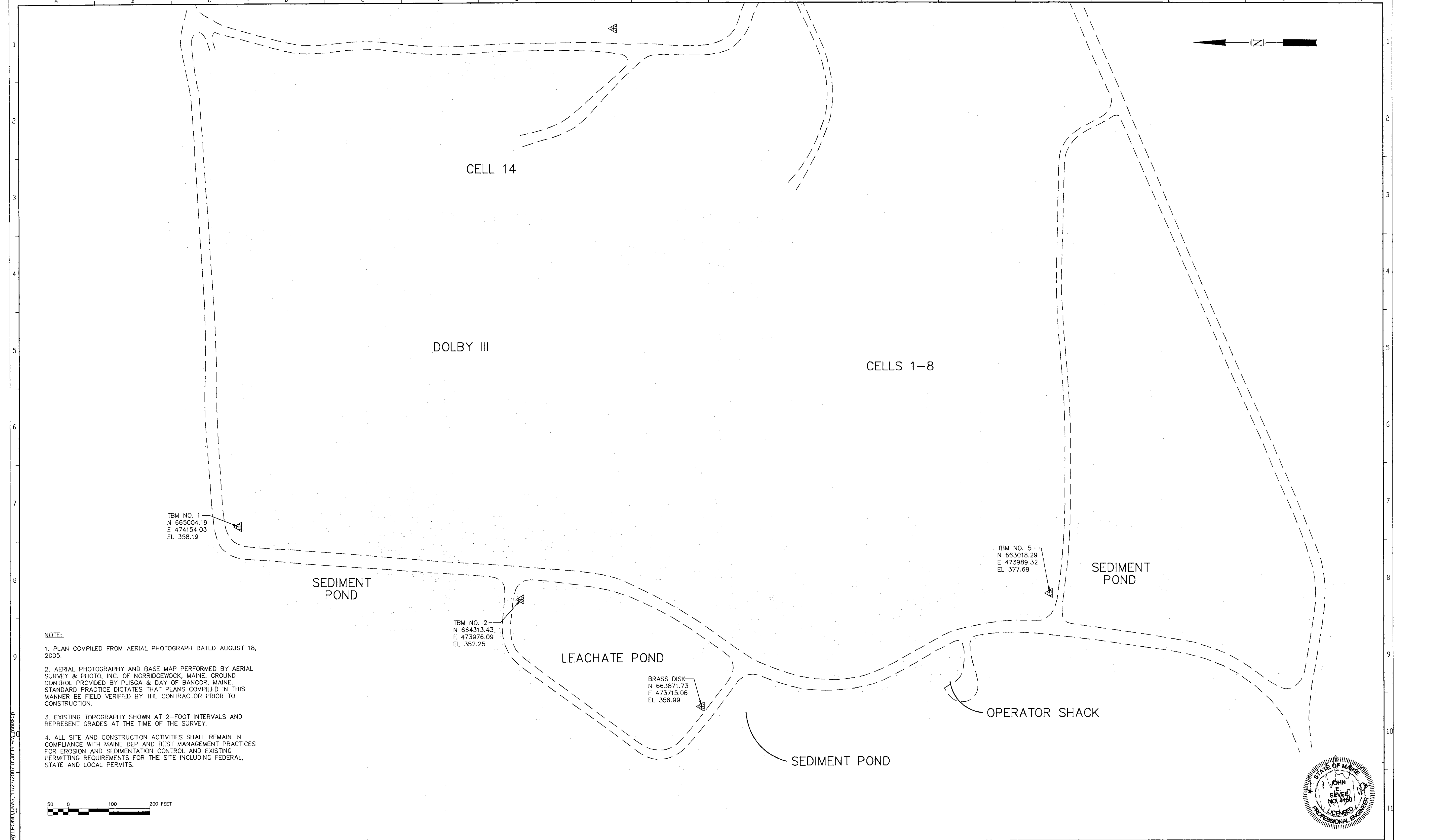
DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - MII T.O.	C - Const.	
1" = 10'		



EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
DISC FILTER AREA
10" GRAVITY SEWER

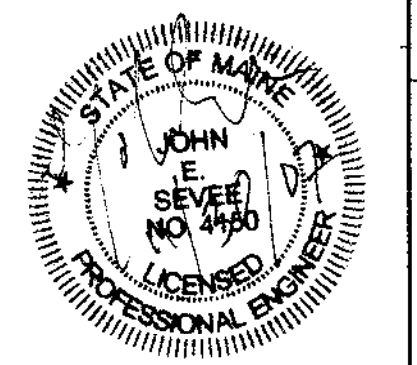
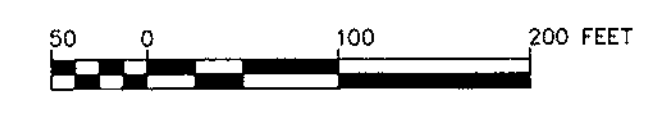
JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-982-4783

22846
SHEET 5 OF 8



NOTE:

1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOOD, MAINE. GROUND CONTROL PROVIDED BY PLISGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MAINE DEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.



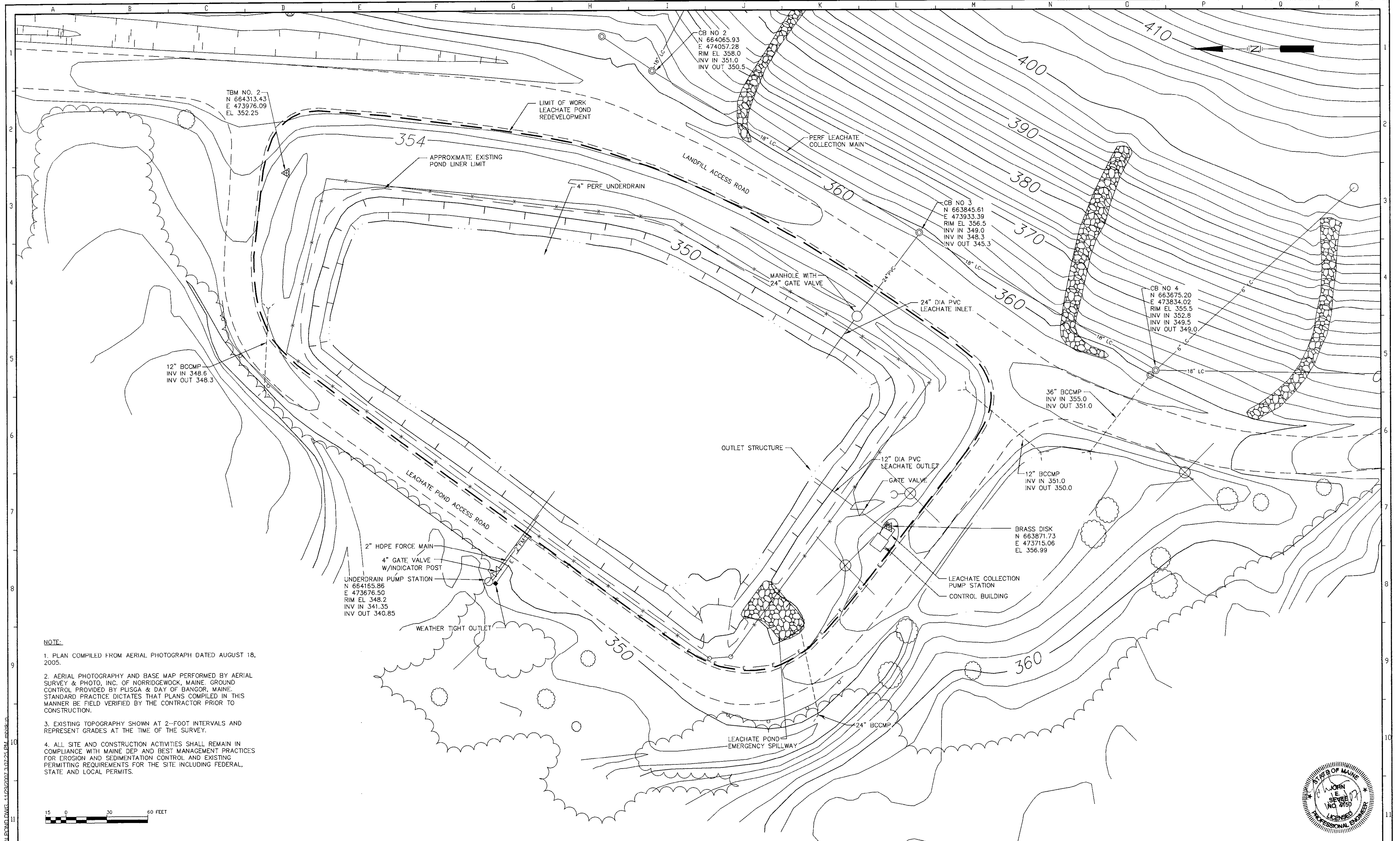
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6	-																	
5	-																	
4	-			11/26/07	ASB	RECORD DRAWING												
3	-			10/31/06	B	ISSUED FOR BID		GHC										
2	-			5/17/06	P	REVISED PER MEDEP COMMENTS		GHC										
1	-			12/9/05	P	SUBMITTED TO MEDEP		GHC										

SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

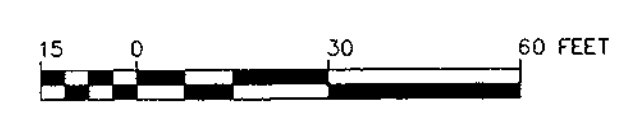
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: LPOND.DWG

EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 SITE LOCATION PLAN
 JOB NO. 02000
 FILE NO. 0-000-0000
 I.D.C. NO.
YB-26189

C:\p\05043\05043.dwg PLOT DATE: 11/27/07 9:38:14 AM PLOT: 11/27/07 9:38:14 AM



- NOTE:**
1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
 2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOOD, MAINE. GROUND CONTROL PROVIDED BY PLUSGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MAINE DEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.



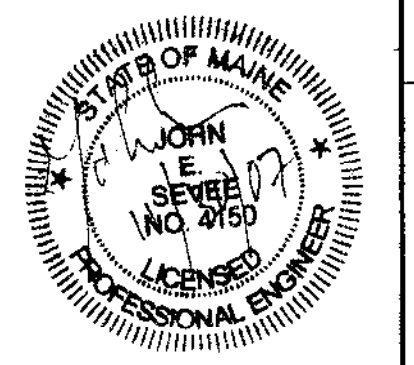
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5	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	11/26/07	ASE						RECORD DRAWING				
3	-	10/31/06	B						ISSUED FOR BID	GHC			
2	-	5/17/06	P						REVISED PER MEDEP COMMENTS	GHC			
1	-	12/9/05	P						SUBMITTED TO MEDEP	GHC			

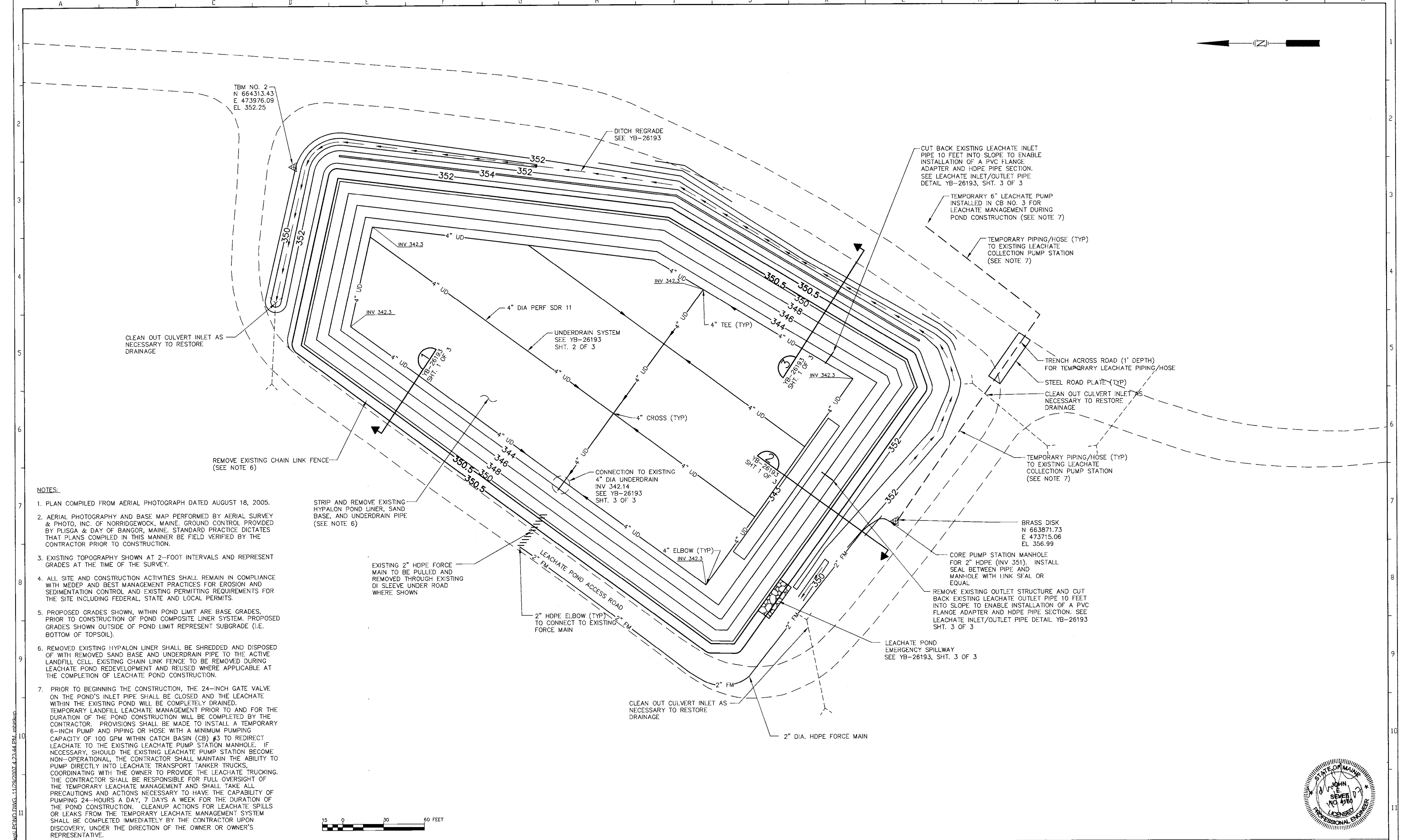
SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

DRN	MBISK	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE AS NOTED		

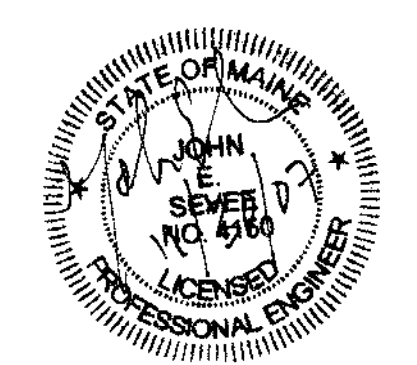
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: LPOND.DWG

EAST OPERATION
DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
EXISTING CONDITIONS PLAN
 JOB NO. 060000
 FILE NO. 0-300-0000
 LDC NO. _____
YB-26190





- NOTES:**
1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
 2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE. GROUND CONTROL PROVIDED BY PLUSGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 3. EXISTING TOPOGRAPHY SHOWN AT 2'-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MEDEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.
 5. PROPOSED GRADES SHOWN, WITHIN POND LIMIT ARE BASE GRADES. PRIOR TO CONSTRUCTION OF POND COMPOSITE LINER SYSTEM. PROPOSED GRADES SHOWN OUTSIDE OF POND LIMIT REPRESENT SUBGRADE (I.E. BOTTOM OF TOPSOIL).
 6. REMOVED EXISTING HYPALON LINER SHALL BE SHREDDED AND DISPOSED OF WITH REMOVED SAND BASE AND UNDERDRAIN PIPE TO THE ACTIVE LANDFILL CELL. EXISTING CHAIN LINK FENCE TO BE REMOVED DURING LEACHATE POND REDEVELOPMENT AND REUSED WHERE APPLICABLE AT THE COMPLETION OF LEACHATE POND CONSTRUCTION.
 7. PRIOR TO BEGINNING THE CONSTRUCTION, THE 24-INCH GATE VALVE ON THE POND'S INLET PIPE SHALL BE CLOSED AND THE LEACHATE WITHIN THE EXISTING POND WILL BE COMPLETELY DRAINED. TEMPORARY LANDFILL LEACHATE MANAGEMENT PRIOR TO AND FOR THE DURATION OF THE POND CONSTRUCTION WILL BE COMPLETED BY THE CONTRACTOR. PROVISIONS SHALL BE MADE TO INSTALL A TEMPORARY 6-INCH PUMP AND PIPING OR HOSE WITH A MINIMUM PUMPING CAPACITY OF 100 GPM WITHIN CATCH BASIN (CB) #3 TO REDIRECT LEACHATE TO THE EXISTING LEACHATE PUMP STATION MANHOLE. IF NECESSARY, SHOULD THE EXISTING LEACHATE PUMP STATION BECOME NON-OPERATIONAL, THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO PUMP DIRECTLY INTO LEACHATE TRANSPORT TANKER TRUCKS. COORDINATING WITH THE OWNER TO PROVIDE THE LEACHATE TRUCKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL OVERSIGHT OF THE TEMPORARY LEACHATE MANAGEMENT AND SHALL TAKE ALL PRECAUTIONS AND ACTIONS NECESSARY TO HAVE THE CAPABILITY OF PUMPING 24-HOURS A DAY, 7 DAYS A WEEK FOR THE DURATION OF THE POND CONSTRUCTION. CLEANUP ACTIONS FOR LEACHATE SPILLS OR LEAKS FROM THE TEMPORARY LEACHATE MANAGEMENT SYSTEM SHALL BE COMPLETED IMMEDIATELY BY THE CONTRACTOR UPON DISCOVERY, UNDER THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE.



REV.	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION
6	-	-	-	-	-	-	-	-	-
5	11/26/07	ASB	-	-	-	-	-	-	RECORD DRAWING
4	12/5/06	B	GHC	-	-	-	-	-	ADDENDUM NO. 2
3	10/31/06	B	GHC	-	-	-	-	-	ISSUED FOR BID
2	5/17/06	P	GHC	-	-	-	-	-	REVISED PER MEDEP COMMENTS
1	12/9/05	P	GHC	-	-	-	-	-	SUBMITTED TO MEDEP

SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

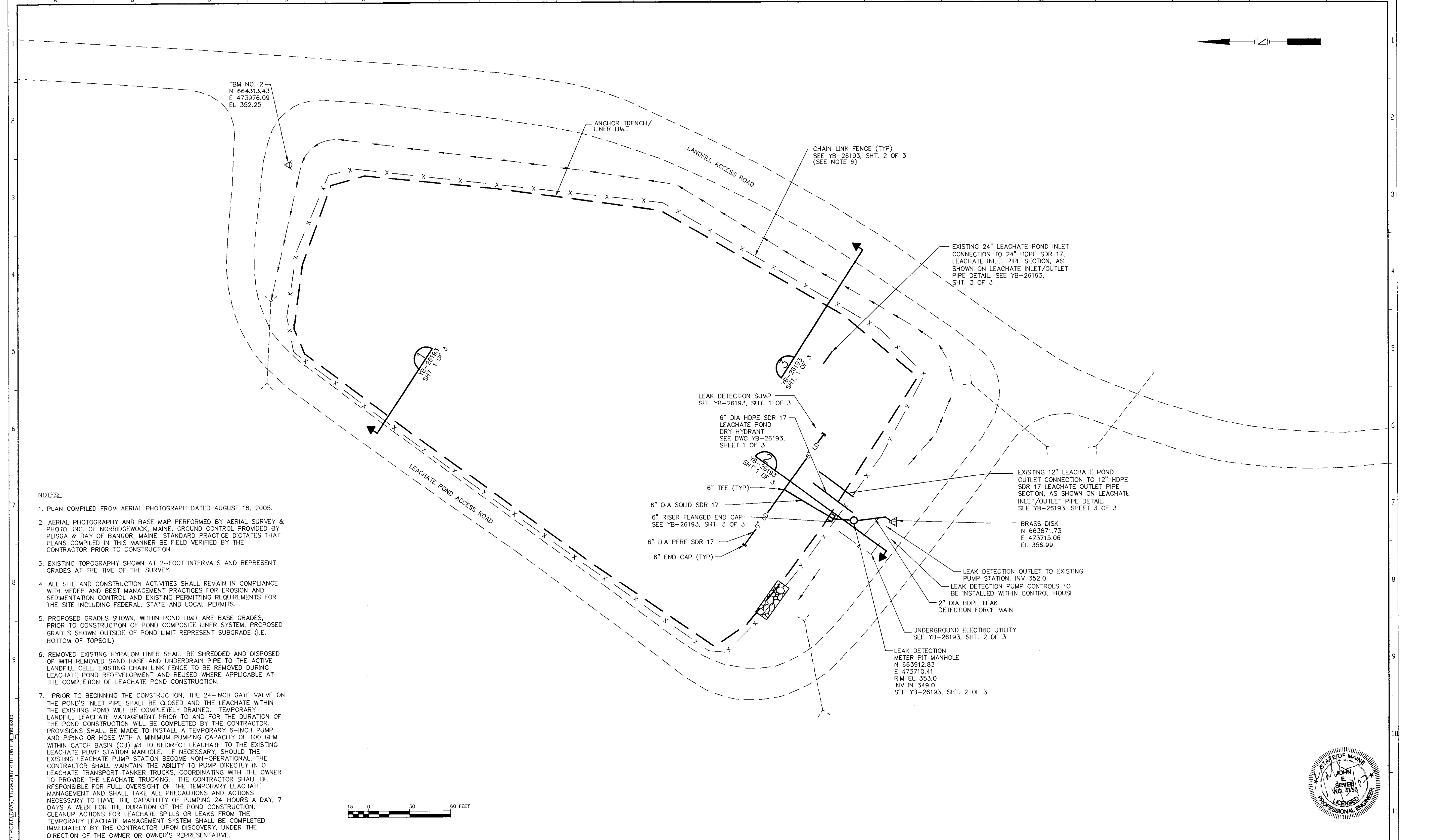
CAD FILE: LPOND.DWG

EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 BASE GRADING AND
 UNDERDRAIN PLAN

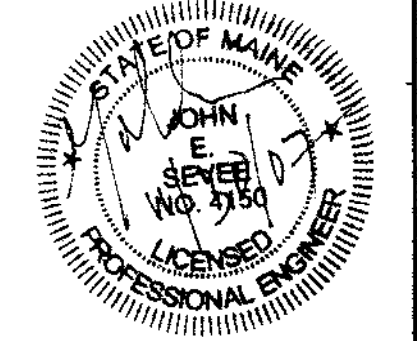
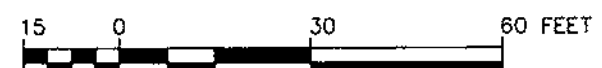
JOB NO. 000000
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YB-26191

DRN	MBISK	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	-	Preliminary
B	-	Bids
C	-	Construction
ASB	-	As Built
SCALE	-	AS NOTED



- NOTES:**
1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
 2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE. GROUND CONTROL PROVIDED BY PLUSGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MEDEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.
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 6. REMOVED EXISTING HYPALON LINER SHALL BE SHREDDED AND DISPOSED OF WITH REMOVED SAND BASE AND UNDERDRAIN PIPE TO THE ACTIVE LANDFILL CELL. EXISTING CHAIN LINK FENCE TO BE REMOVED DURING LEACHATE POND REDEVELOPMENT AND REUSED WHERE APPLICABLE AT THE COMPLETION OF LEACHATE POND CONSTRUCTION.
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REV.	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION
6	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
4	11/26/07	ASE							RECORD DRAWING
3	10/31/06	B							ISSUED FOR BID
2	5/17/06	P							REVISED PER MEDEP COMMENTS
1	12/9/05	P							SUBMITTED TO MEDEP

SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine

DRN	MBISK	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	AS NOTED	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

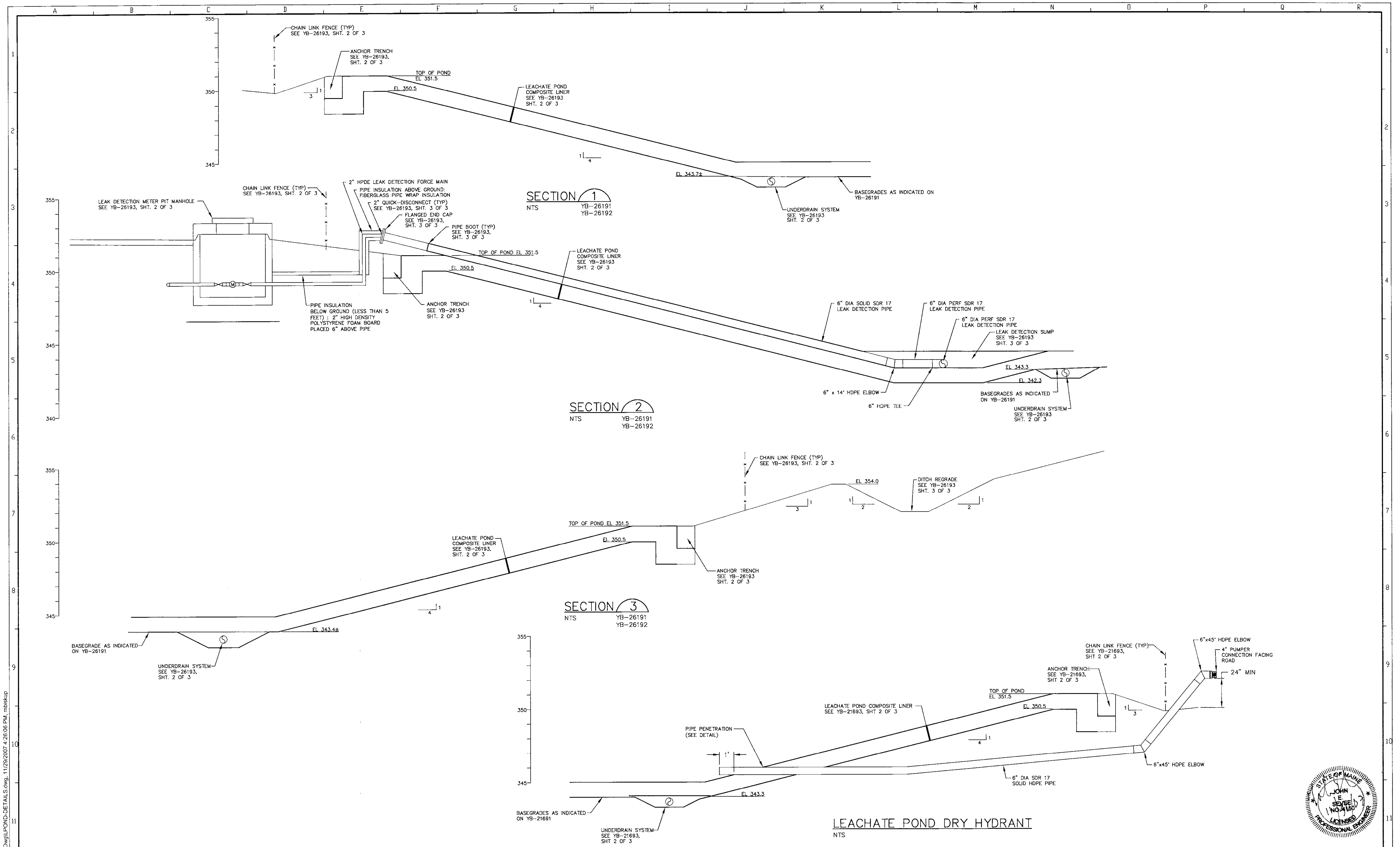
EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 LEAK DETECTION PLAN

CAD FILE: LPOND.DWG

JOB NO. 0000
 FILE NO. 0-000-0000
 LOC. NO. _____

YB-26192

JOB NO. 05043.01

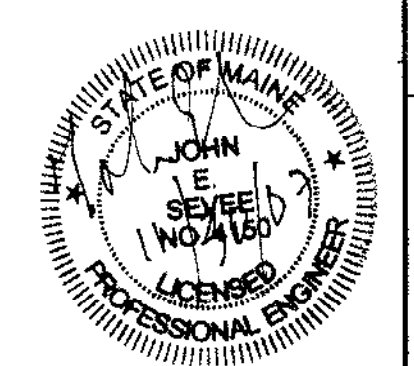


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5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	11/26/07	ASB	RECORD DRAWING											
3	-	-	B	10/31/06	B	ISSUED FOR BID											
2	-	-	P	5/17/06	P	REVISED PER MEDEP COMMENTS											
1	-	-	P	12/9/05	P	SUBMITTED TO MEDEP											

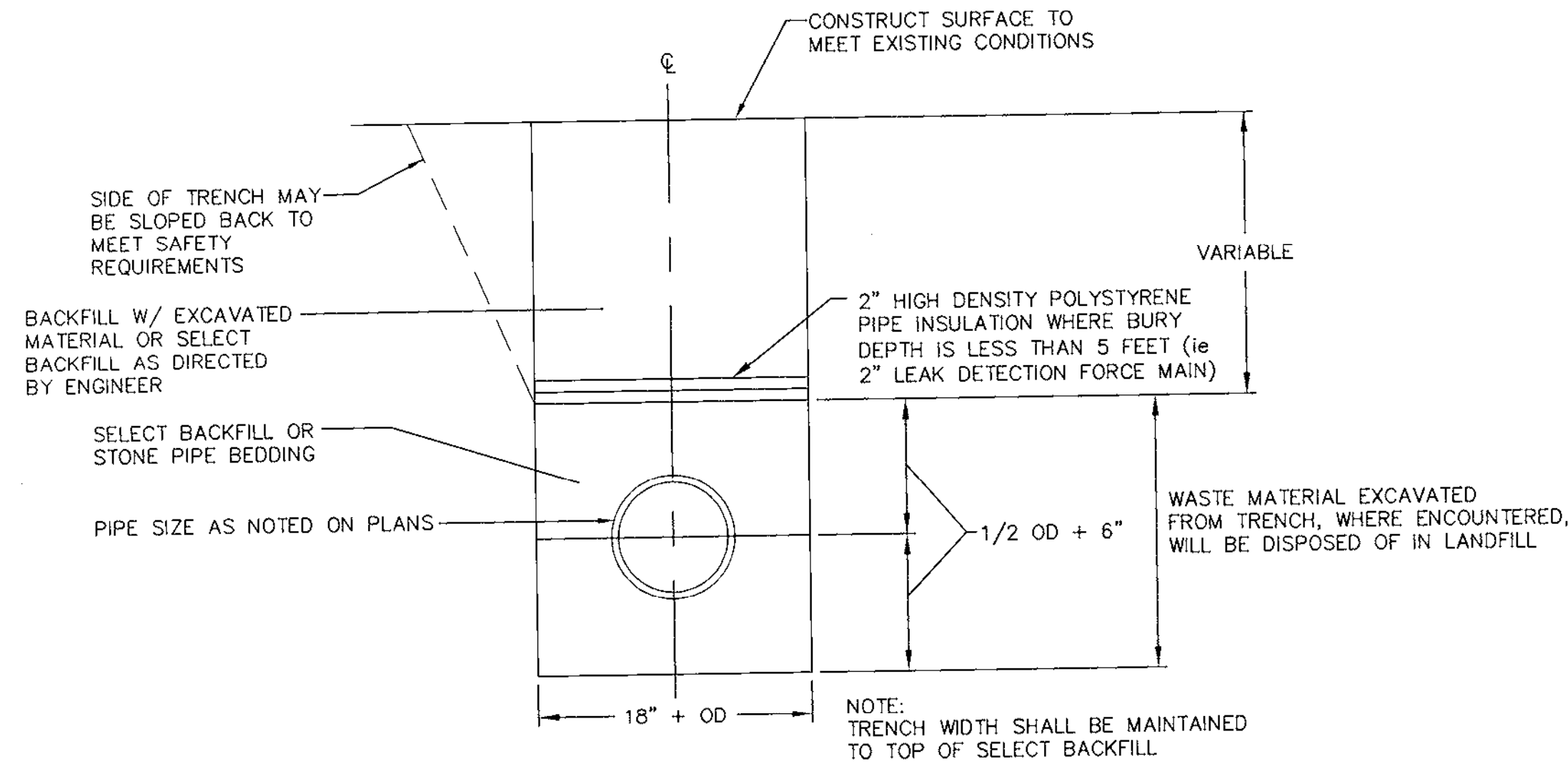
SME
Sevee & Maher Engineers, Inc.
 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine
 JOB NO. 05043.01

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: YB-26193 B0

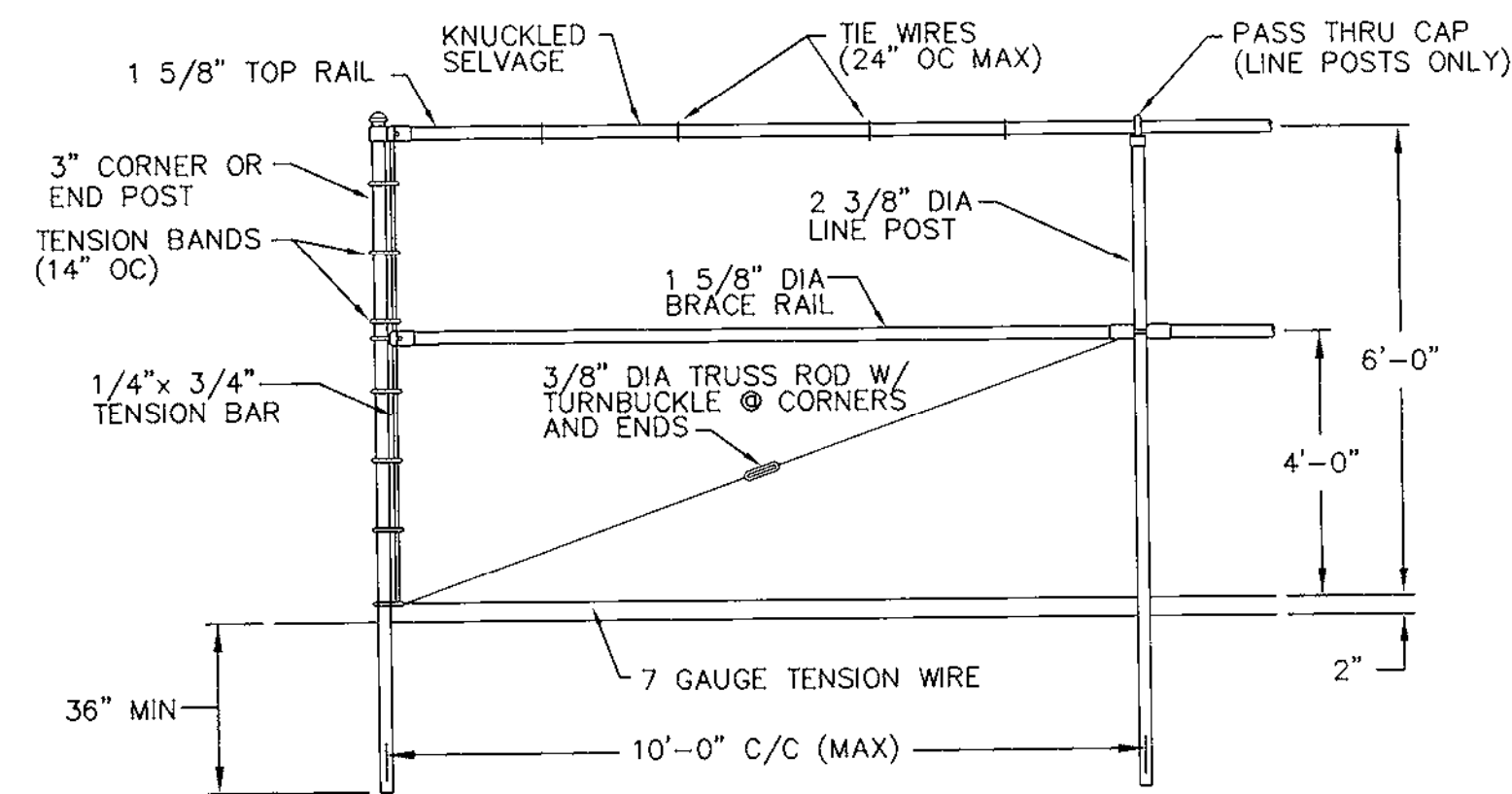
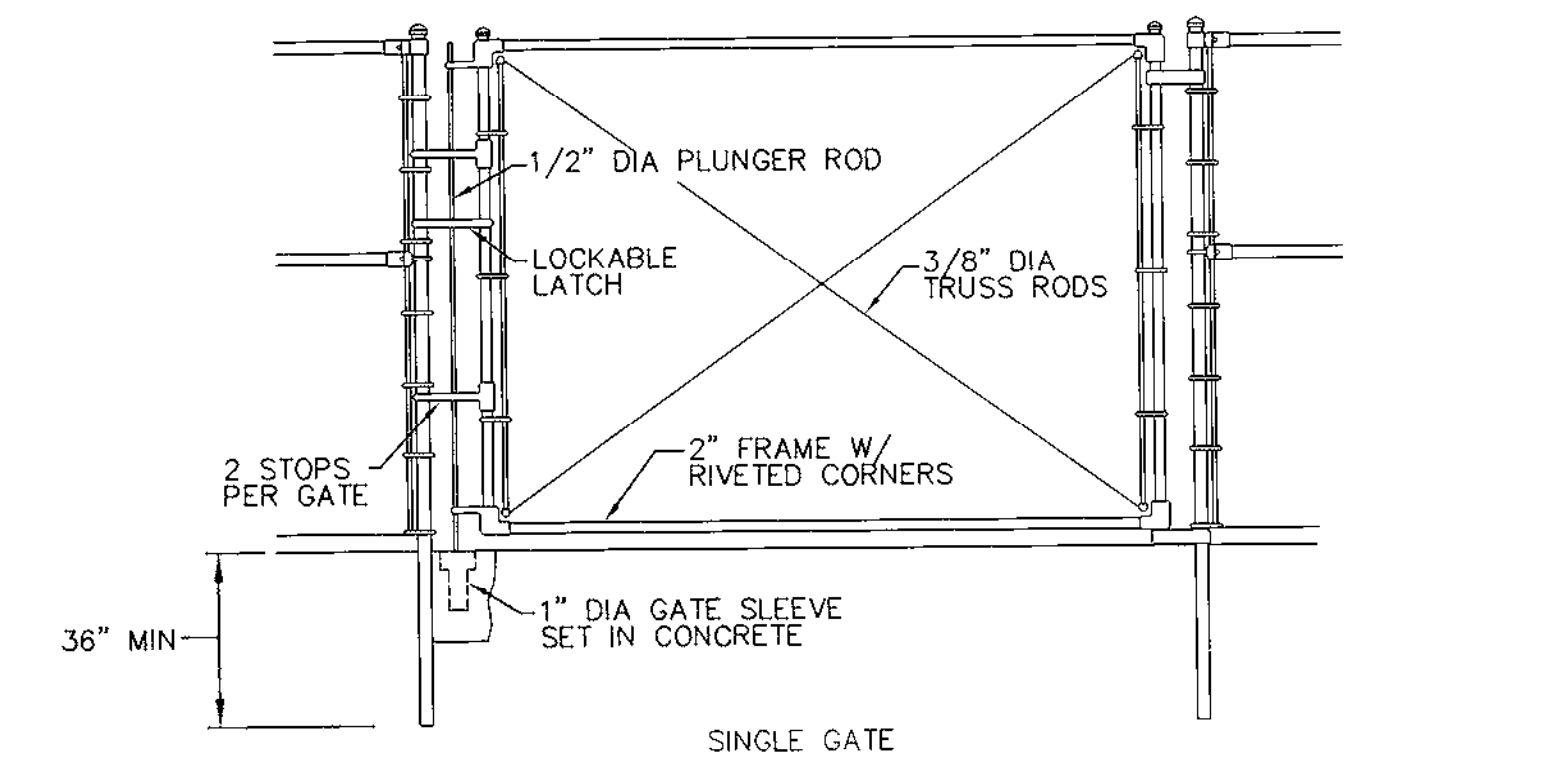
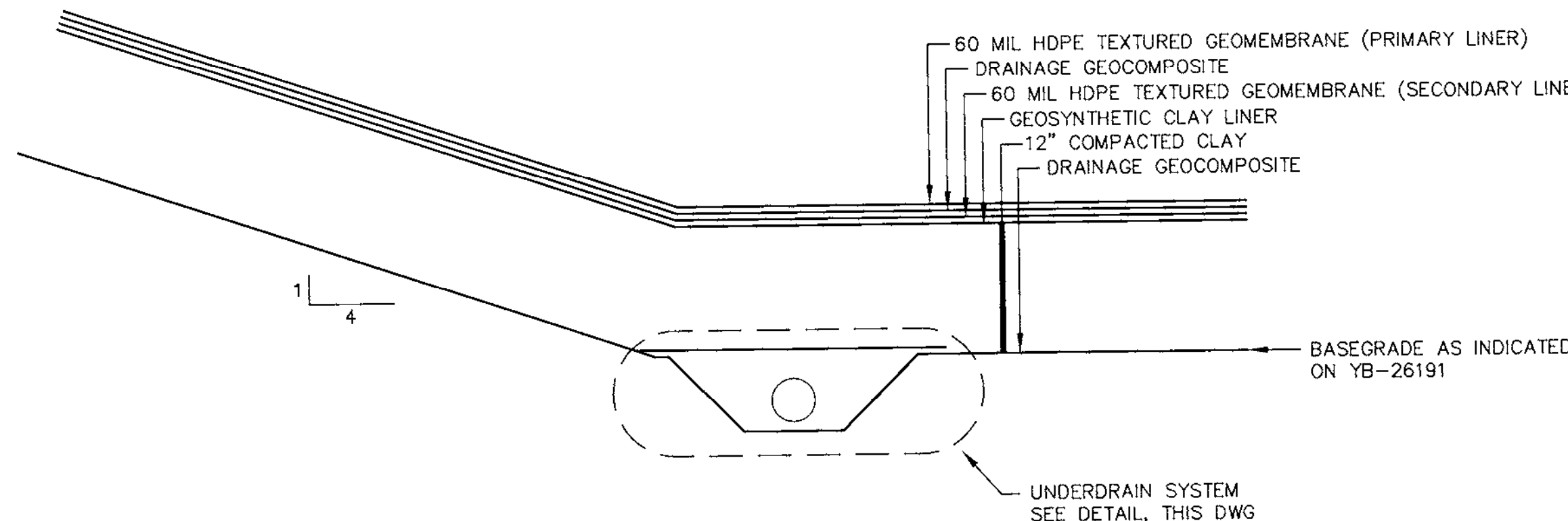
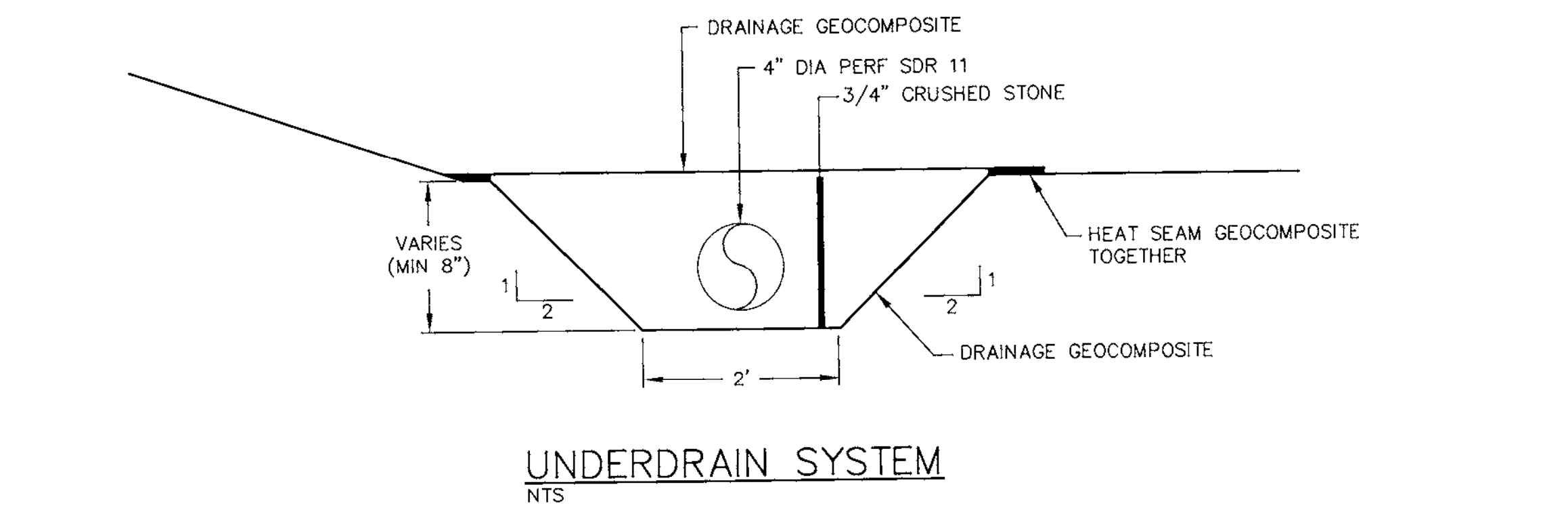
EAST OPERATION
 DOLBY III LANDFILL
 LEACHATE POND REDEVELOPMENT
 SECTIONS AND DETAILS
 (SHEET 1 OF 3)
 JOB NO. 00000
 FILE NO. 0-000-0000
 LDC. NO. YB-26193



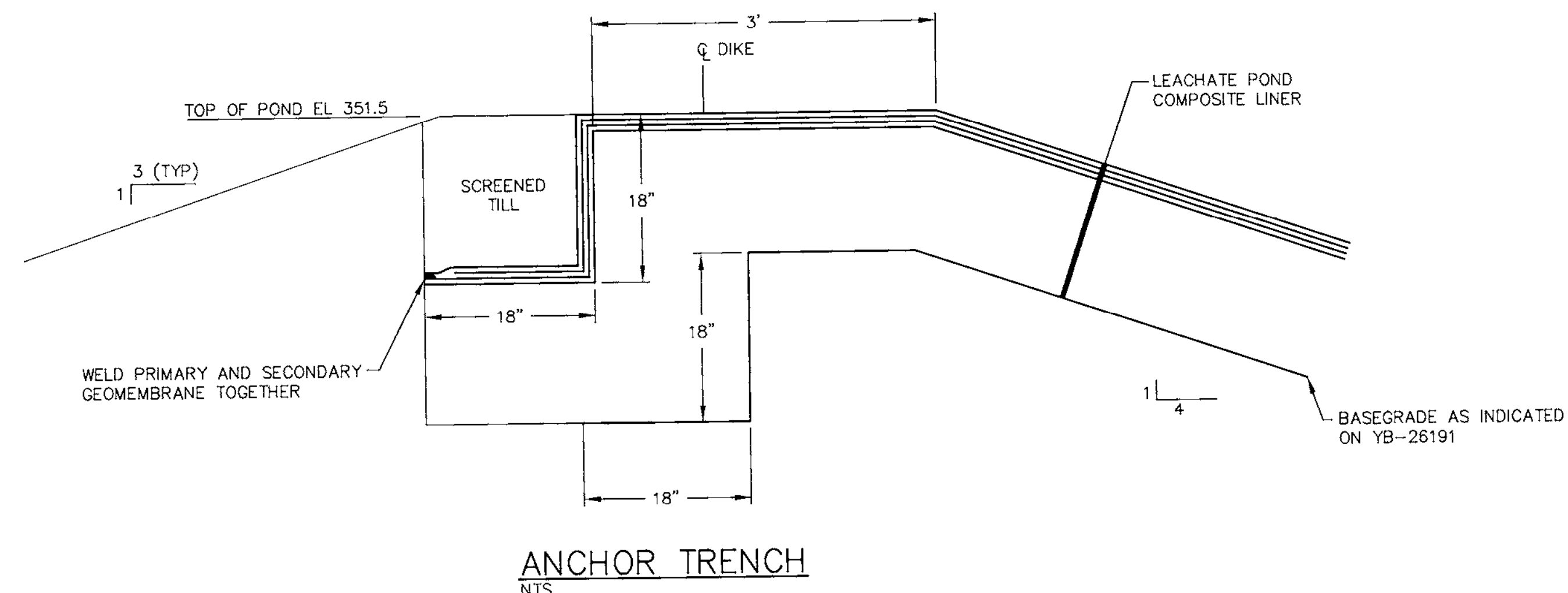
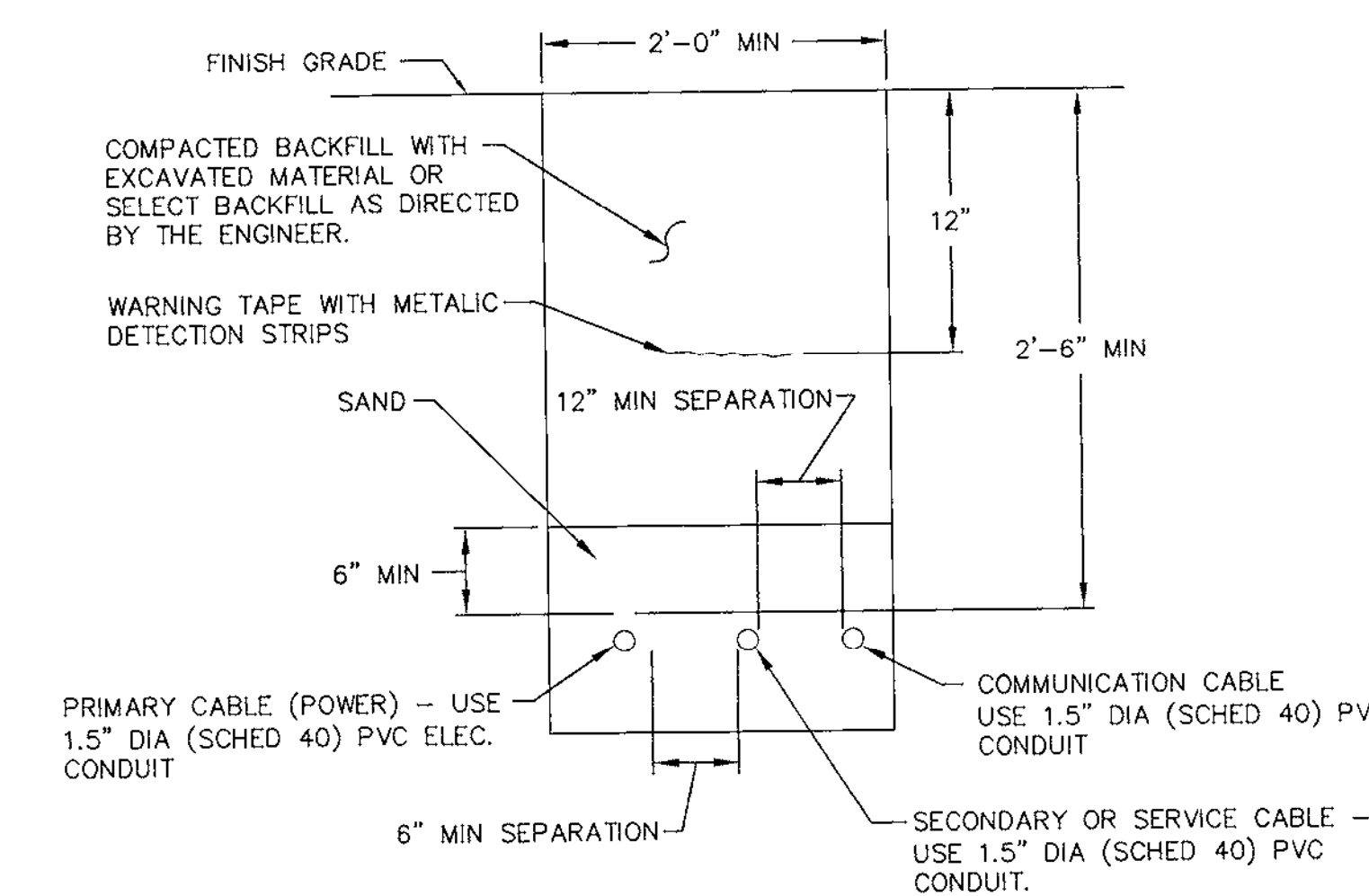
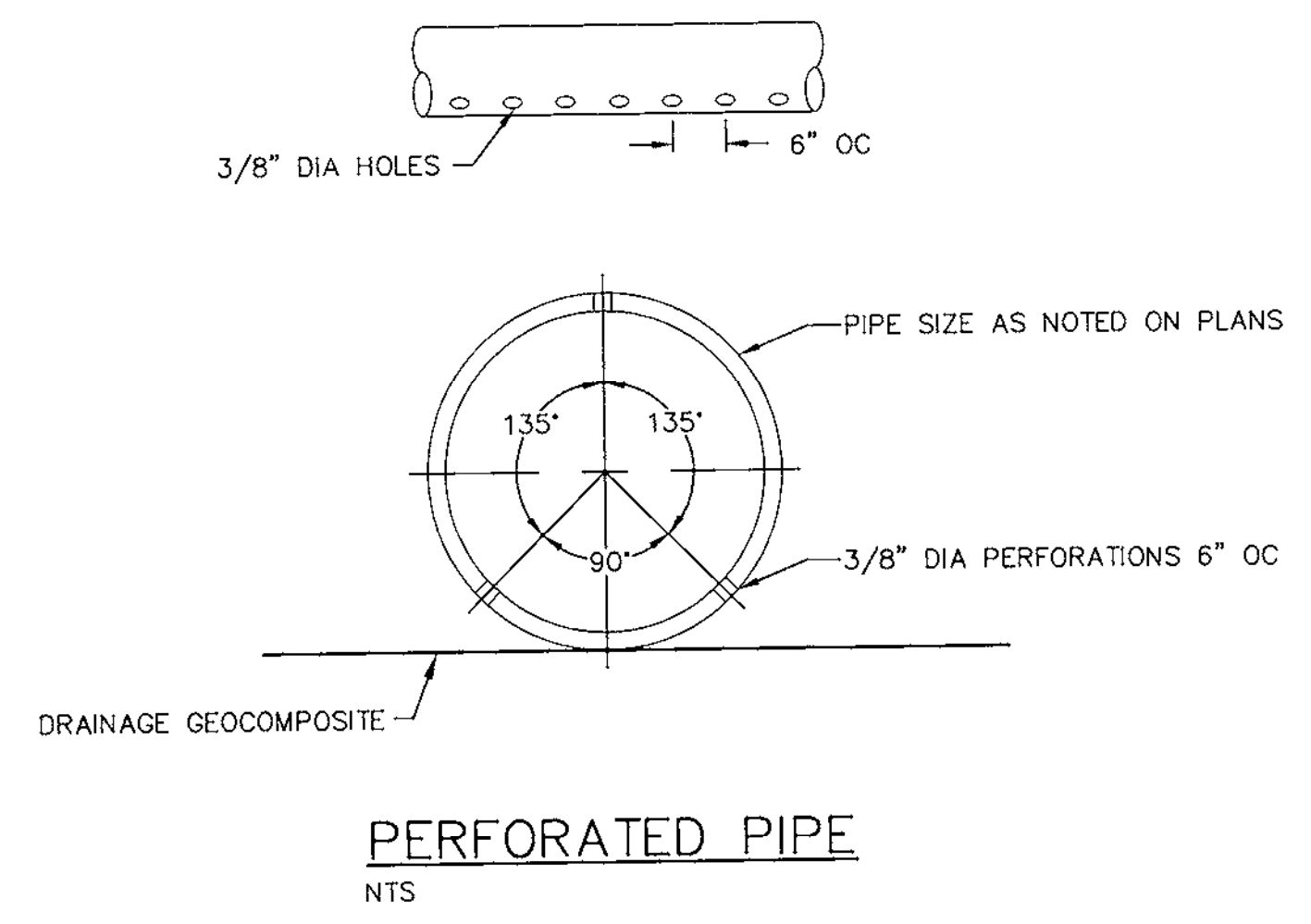
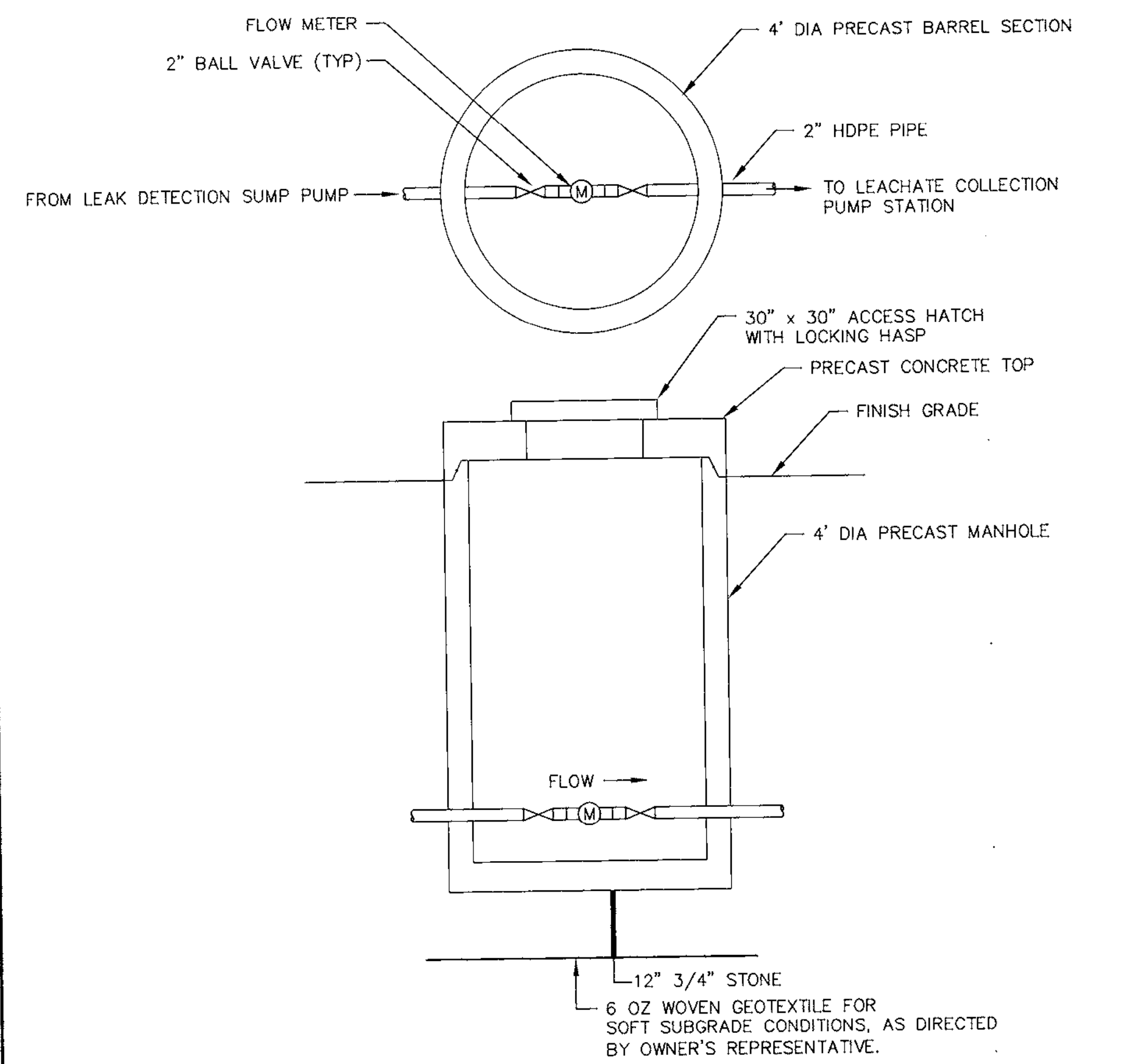
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PIPE TRENCH
NTS



TYPICAL CHAIN LINK FENCE
NTS



REV	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV	REVISION
6	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
4	11/26/07	ASB	-	-	-	-	-	-	RECORD DRAWING
3	10/31/08	B	GHC	-	-	-	-	-	ISSUED FOR BID
2	5/17/06	P	GHC	-	-	-	-	-	REVISED PER MEDEP COMMENTS
1	12/9/05	P	GHC	-	-	-	-	-	SUBMITTED TO MEDEP

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE AS NOTED		

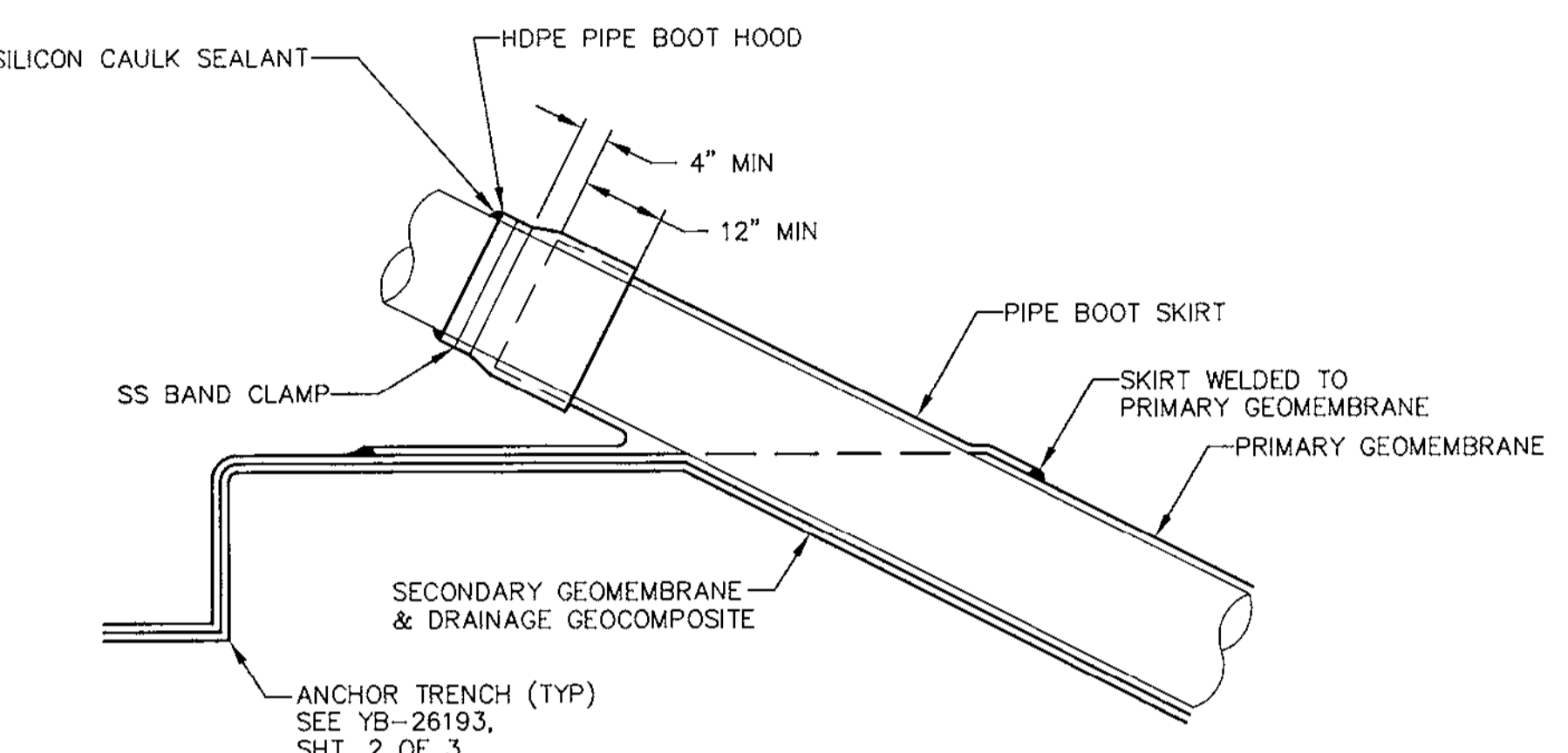
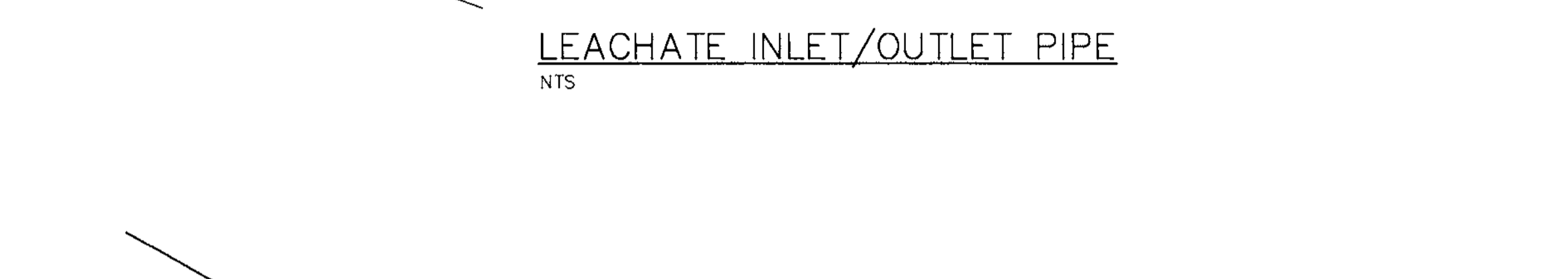
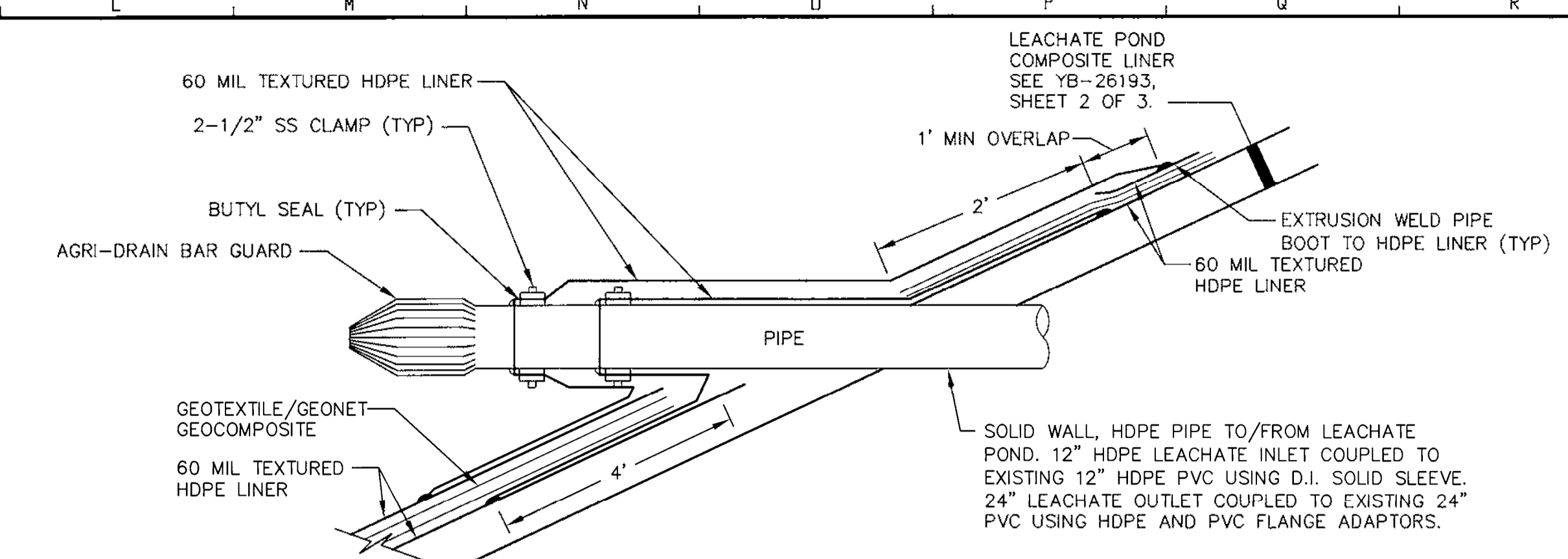
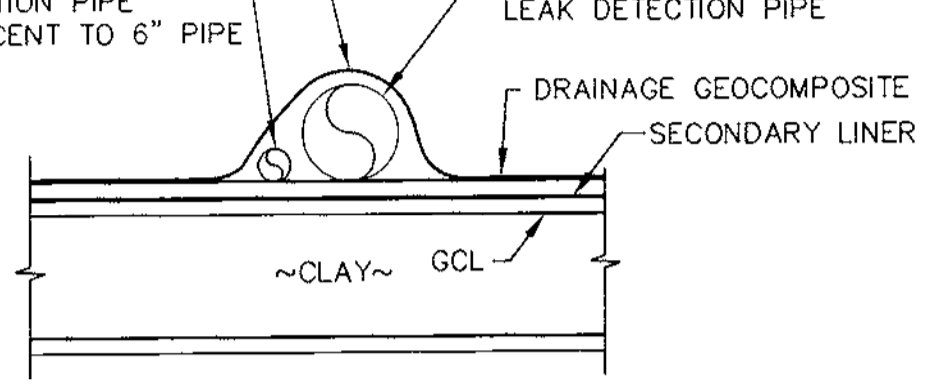
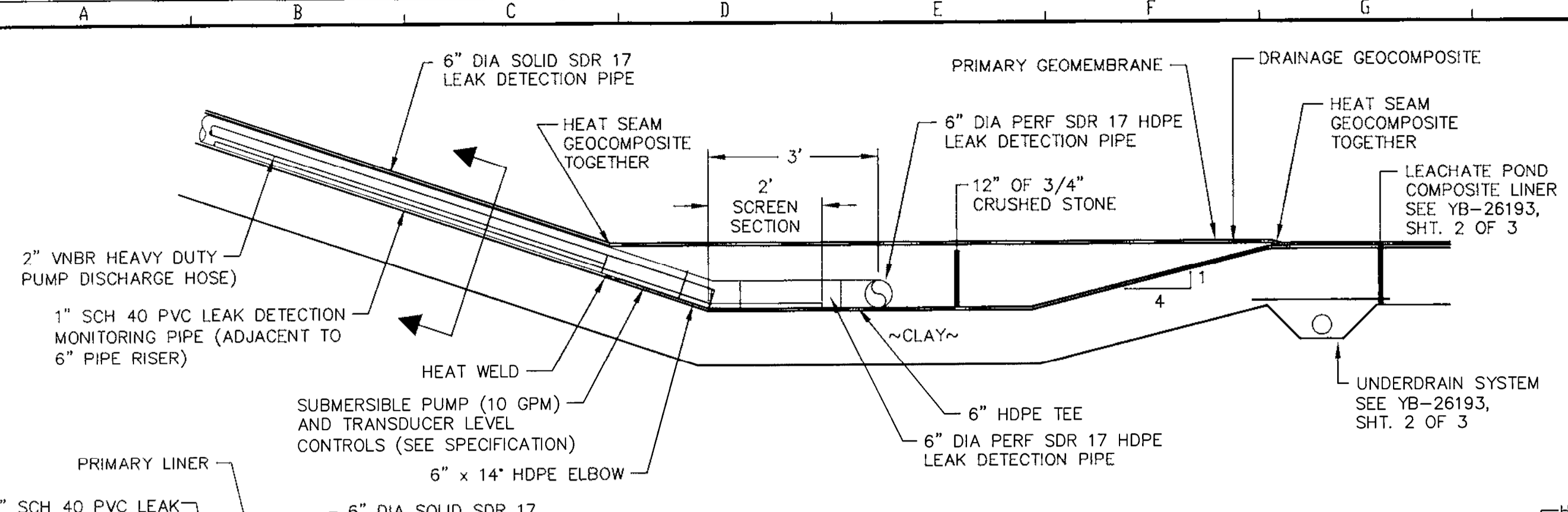
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

EAST OPERATION
DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
SECTIONS AND DETAILS
(SHEET 2 OF 3)

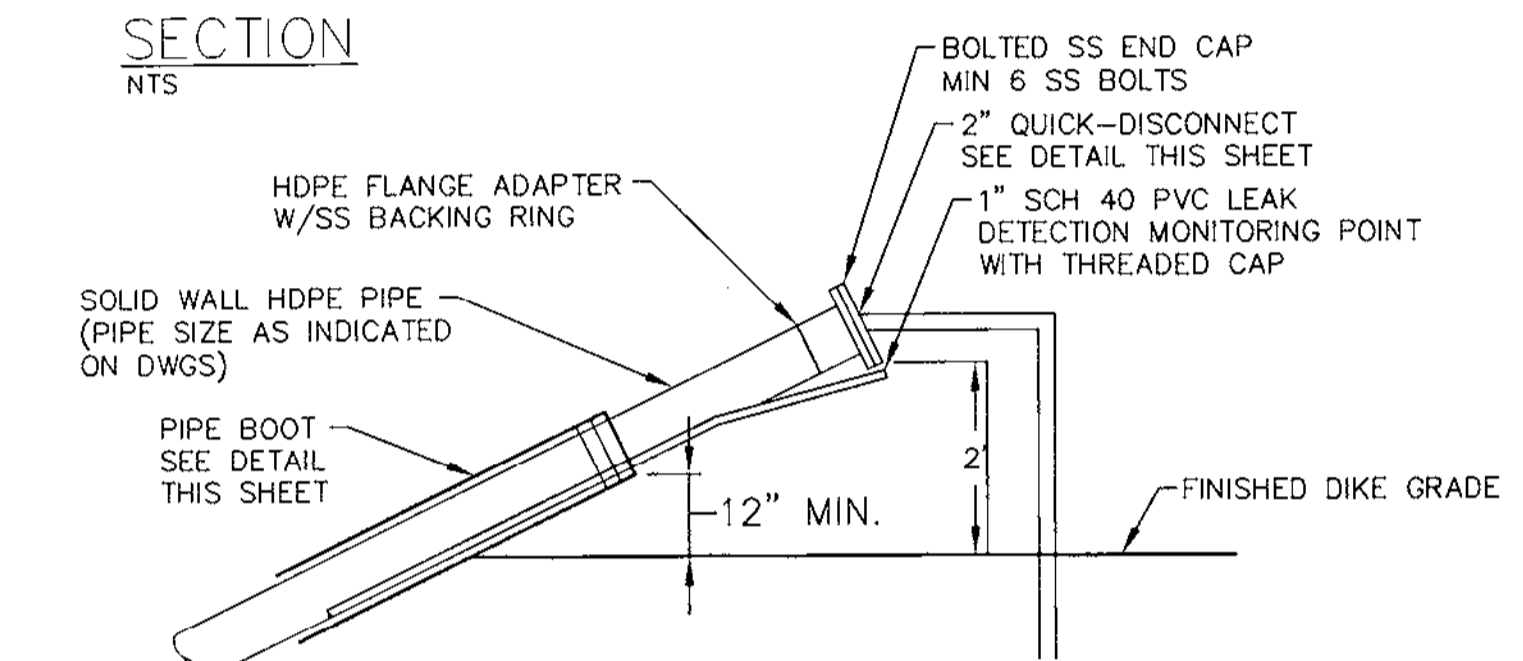
CAD FILE: YB-26193 B1

STATE OF MAINE
J. JOHN SEVEE
NO. 4190
LICENSED PROFESSIONAL ENGINEER

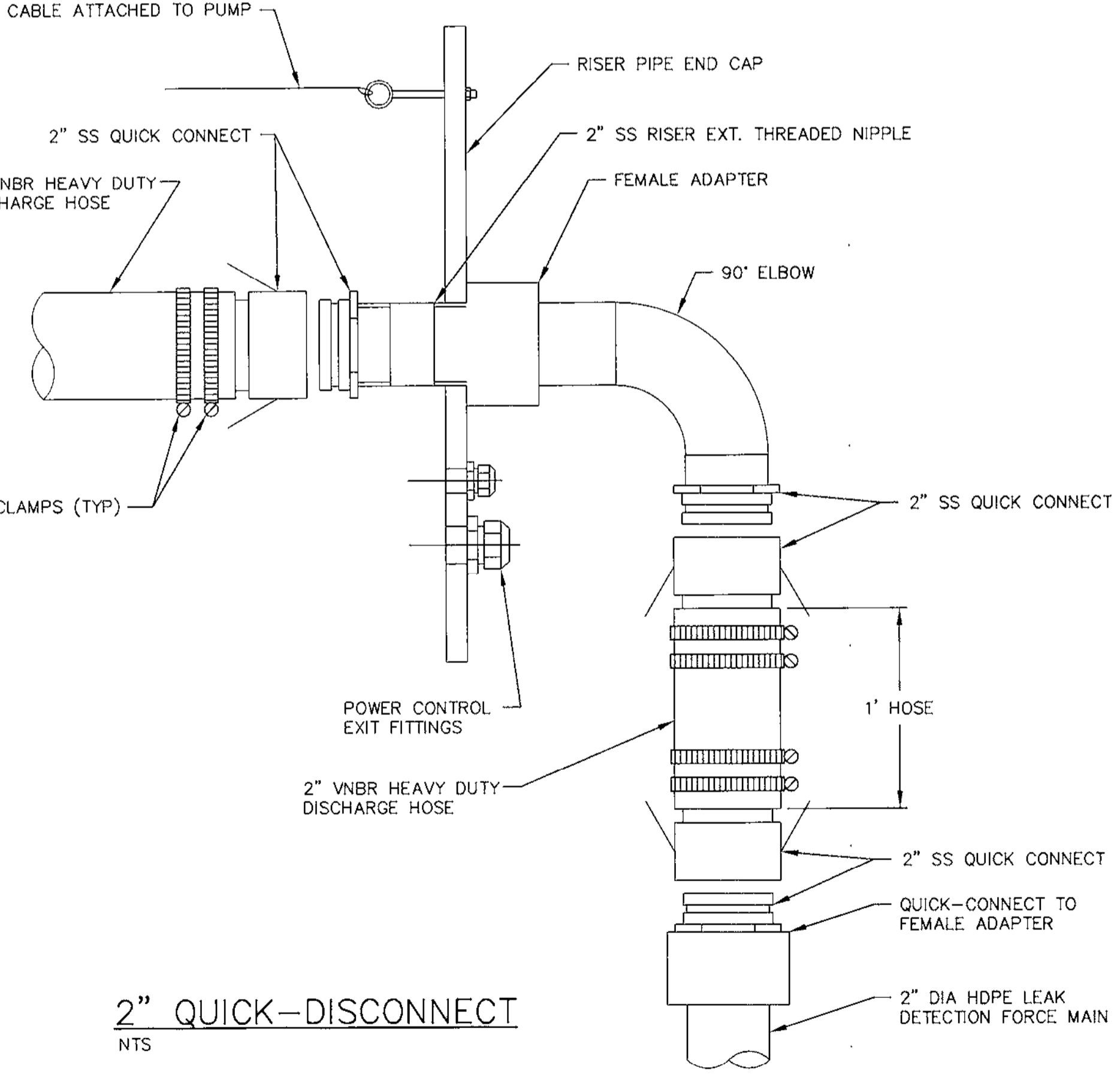
YB-26193



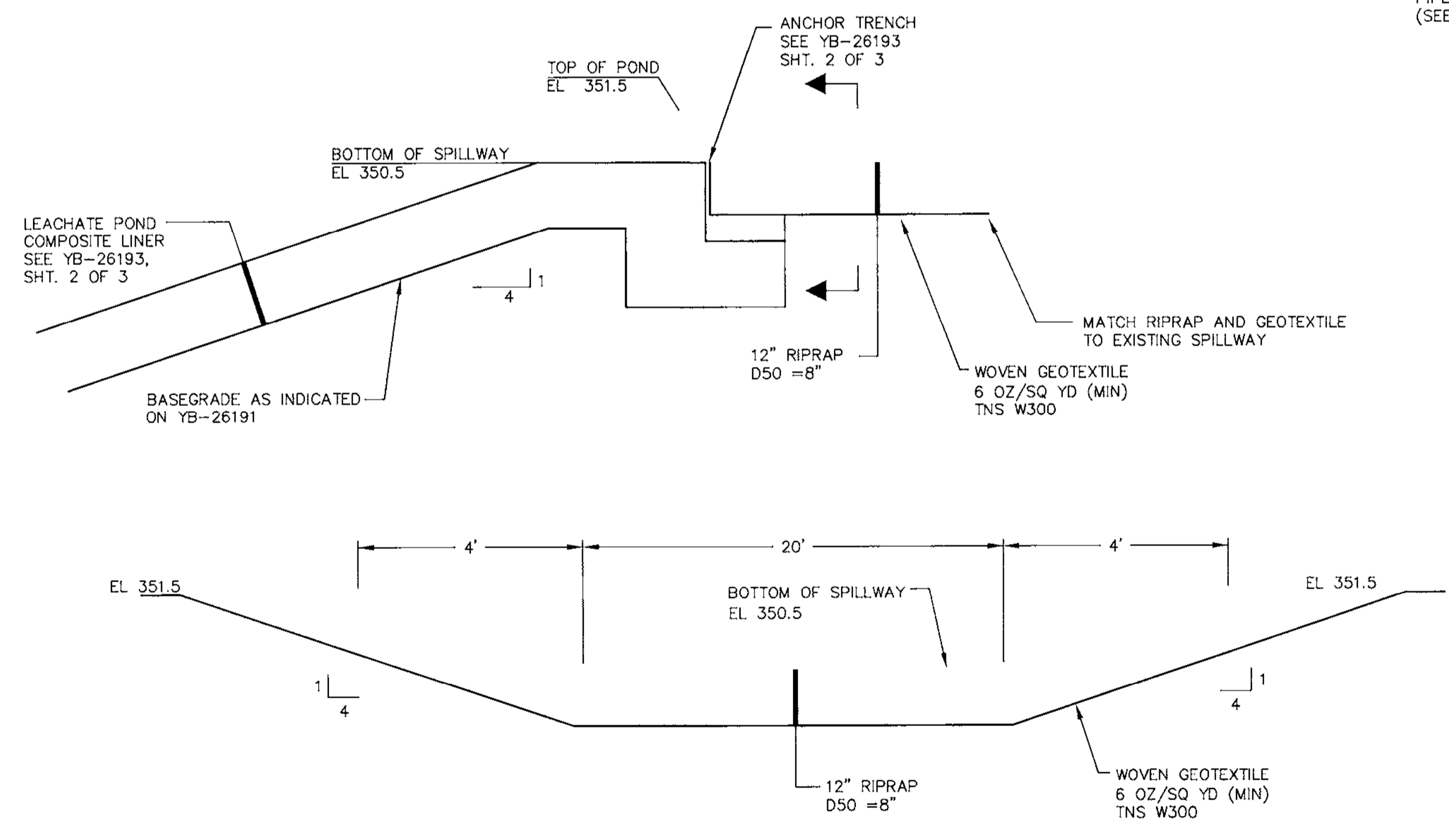
LEAK DETECTION PUMP CONDUIT PIPE BOOT
NTS



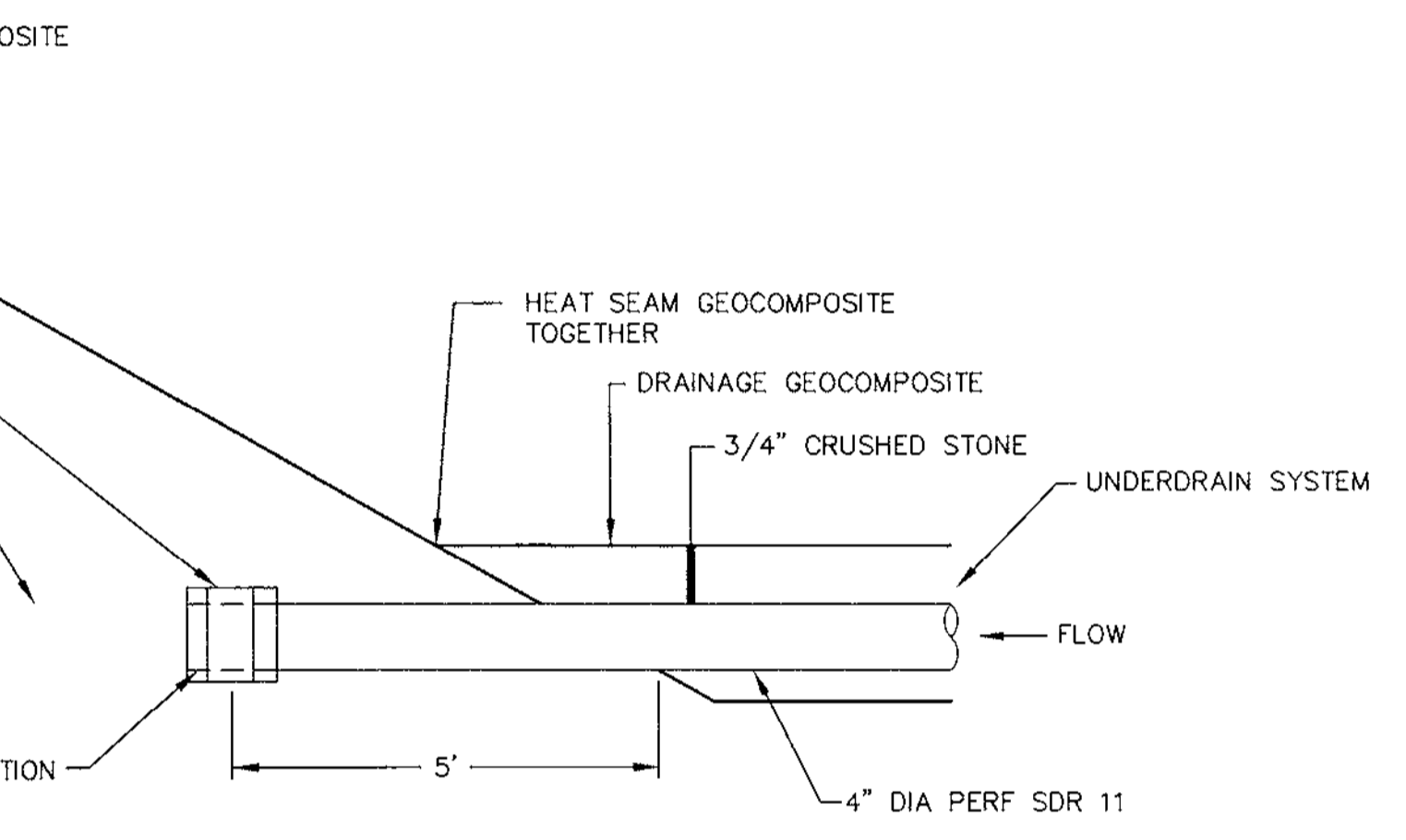
FLANGED END CAP
NTS



2" QUICK-DISCONNECT
NTS

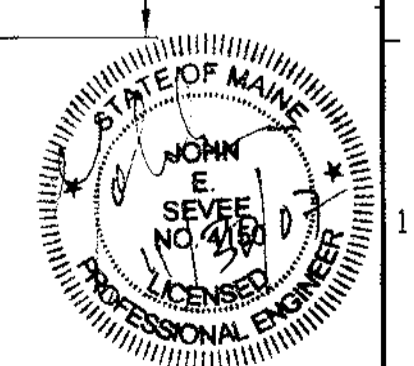


SECTION
LEACHATE POND EMERGENCY SPILLWAY
NTS



DITCH REGRADE
NTS

NOTE:
CUT BACK EXISTING UNDERDRAIN 5 FT INTO SLOPE TO CONNECT. MATCH EXISTING INVERT AND DRAINAGE MEDIA FROM PIPE CONNECTIONS TO BASEGRADE.



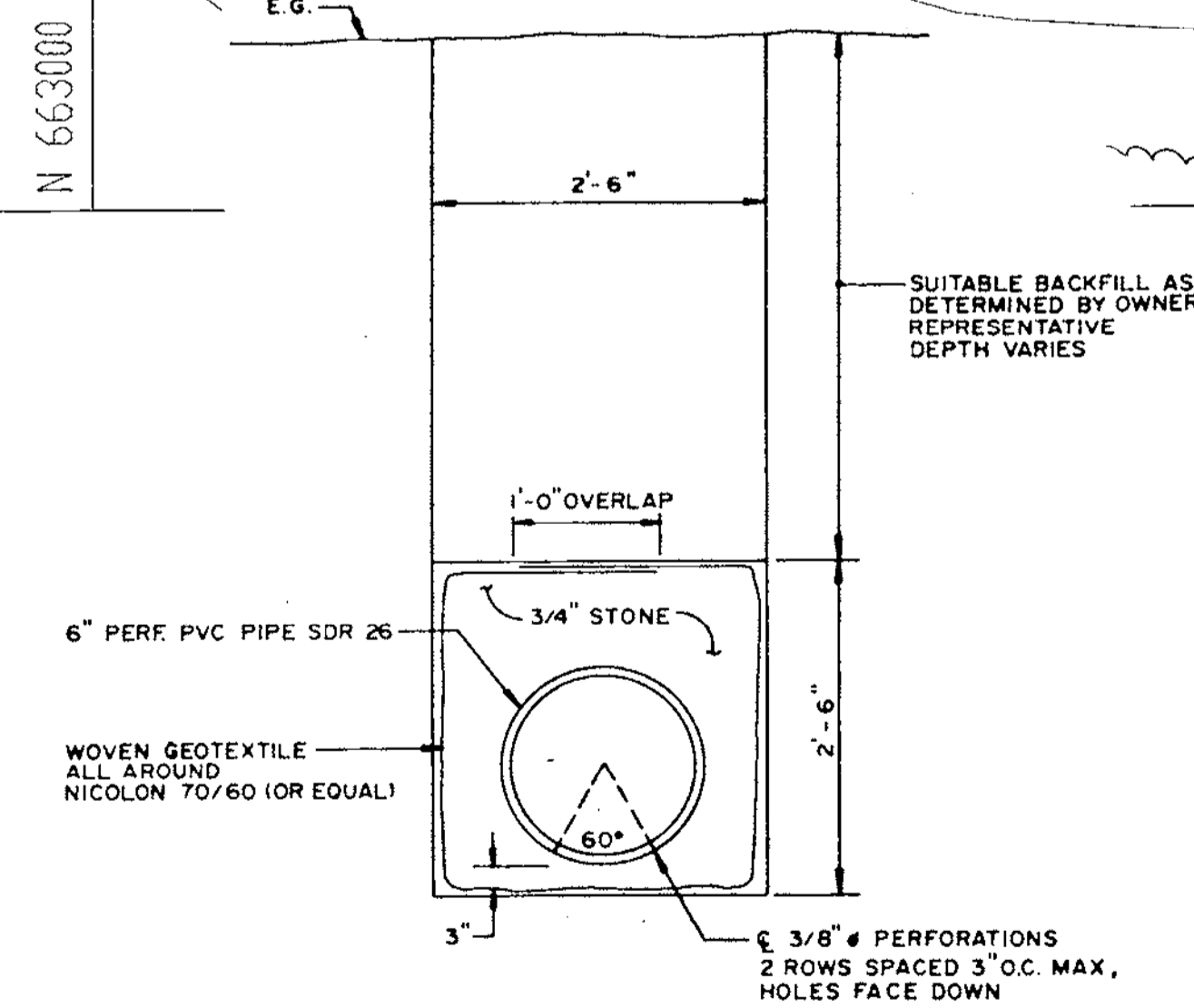
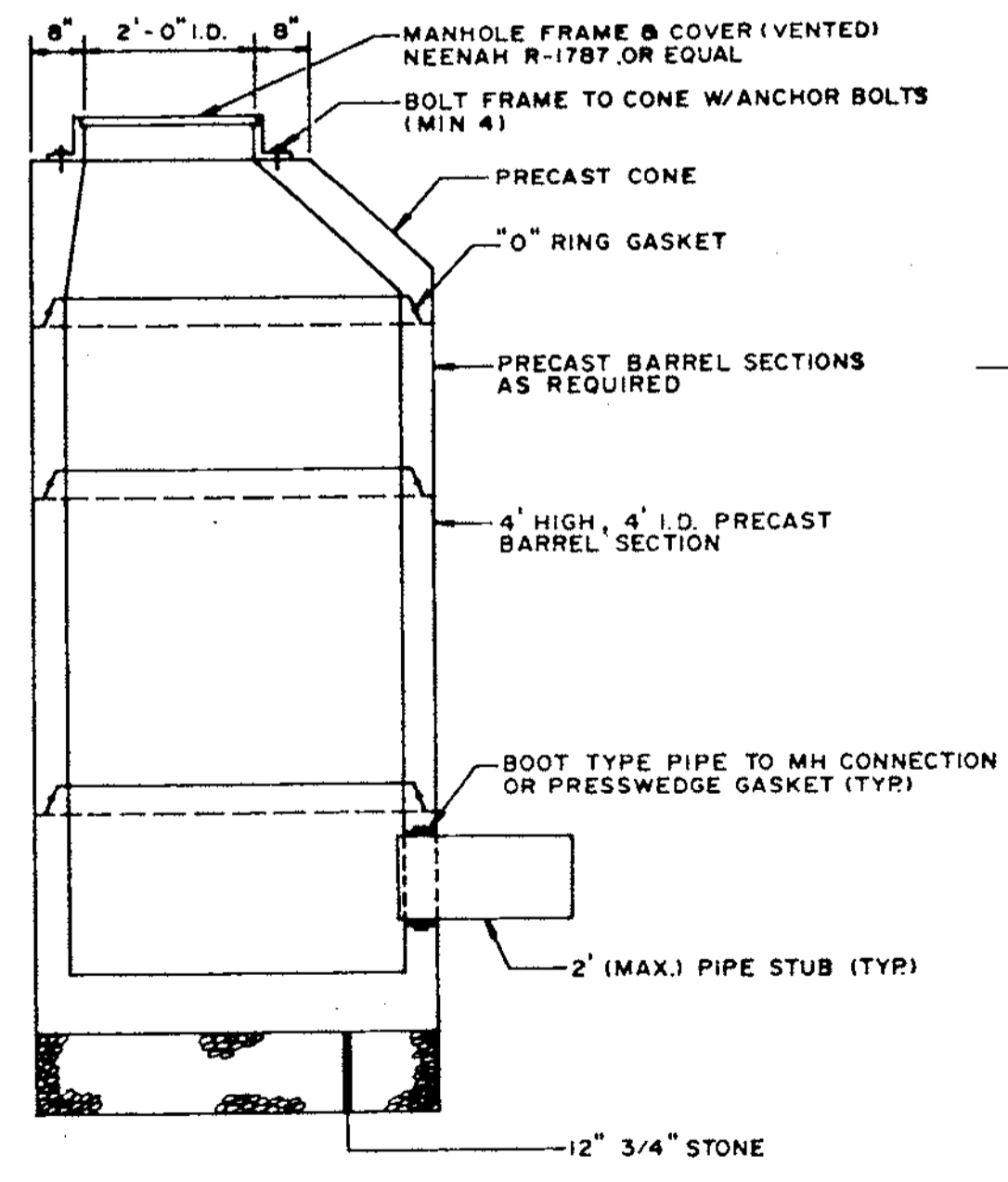
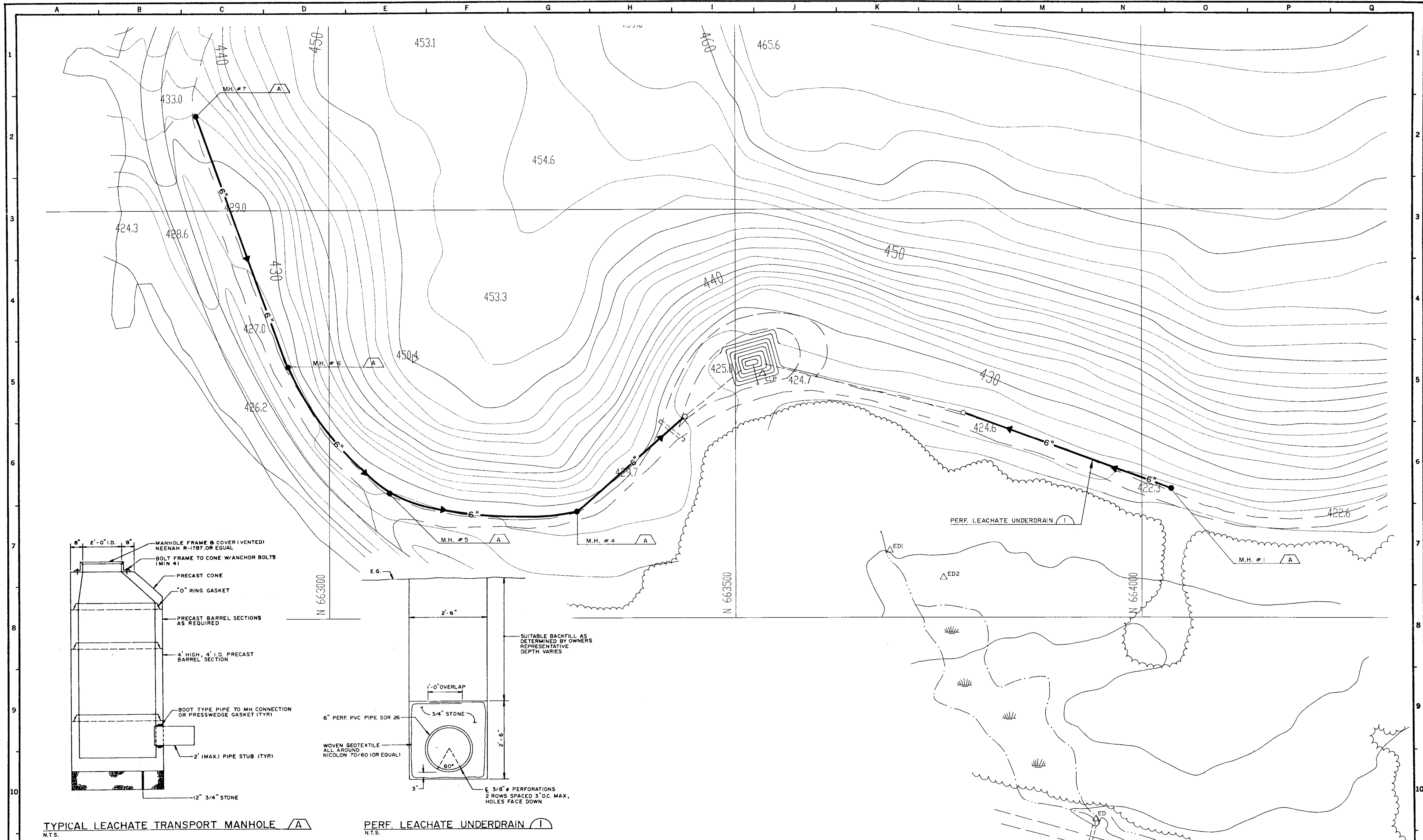
REV.	DATE	DESCRIPTION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	11/26/07	ASB RECORD DRAWING	ASB	-	-	-	-	-	-	-	-	-	-	-
3	10/31/06	B ISSUED FOR BID	B	GHC	-	-	-	-	-	-	-	-	-	-
2	5/17/06	P REVISED PER MEDEP COMMENTS	P	GHC	-	-	-	-	-	-	-	-	-	-
1	12/9/05	P SUBMITTED TO MEDEP	P	GHC	-	-	-	-	-	-	-	-	-	-

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine
JOB NO. 05043.01

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P	-	Preliminary
B	-	Bids
C	-	Construction
ASB	-	As Built
SCALE	-	AS NOTED

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE
CAD FILE: YB-26193 B2

EAST OPERATION
DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
SECTIONS AND DETAILS
(SHEET 3 OF 3)
JOB NO. 00000
FILE NO. 0-000-0000
LIC. NO. YB-26193



TYPICAL LEACHATE TRANSPORT MANHOLE (A)
N.T.S.

PERF. LEACHATE UNDERDRAIN (I)
N.T.S.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
YB-19328	TEMPORARY LEACHATE POND, DOLBY II LANDFILL			11/91	RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	RR	6/91
CKD	5/20/91	MLL
CDR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL/O	C - CONST	
SCALE 1" = 50'		



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY II LANDFILL
NORTHEAST INTERCEPTOR
TRENCH EXTENSION

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703_7082

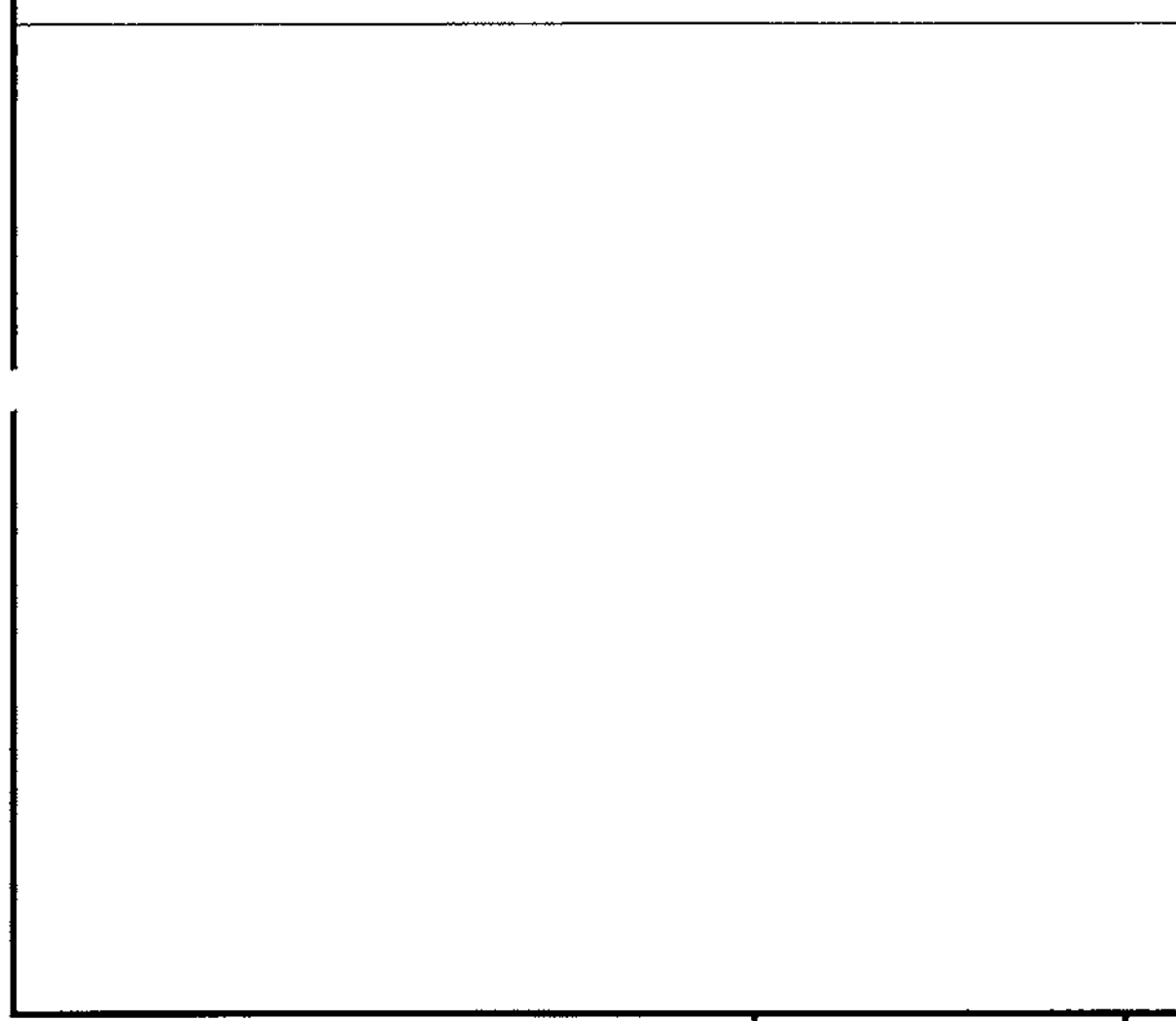
YB-20021

GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY II LANDFILL REGRADING

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-23586
2	SYMBOLS & ABBREVIATIONS	YB-23587
3	SITE LOCATION PLAN	YB-23588
4	SITE DEVELOPMENT PLAN	YB-23589
5	DOLBY II NORTH SITE DEVELOPMENT PLAN	YB-23590
6	DOLBY II SOUTH SITE DEVELOPMENT PLAN	YB-23591 N.I.T.C.
7	FINAL GRADING PLAN	YB-23592
8	SECTIONS & DETAILS	YB-23593

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1996



SEVEE & MAHER ENGINEERS, INC. CONSULTING ENGINEERS CUMBERLAND CENTER, MAINE JOB NO. 95068	DRN	PAF	BOWATER Great Northern Paper	EAST OPERATION
	CHK	GHC		DOLBY II LANDFILL REGRADING COVER SHEET
	CORR			JOB NO. 67996
	APPVD			ENG. REQ. NO. _____
		ISSUE CODE	FILE NO. 2-092-4703,7082	
		P - Prelim B - Bids	YB-23586	
		M - Mtg T.O. C - Const.		
		SCALE		

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		NORTH ARROW (MAGNETIC)			NORTH ARROW (PLAN NORTH)
		CONTOUR LINES			EDGE OF WATER
		SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)
		EXISTING GROUND			FENCE LINE (WOOD)
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			FENCE LINE (WIRE)
		PROPERTY LINE OR R.O.W.			RETAINING WALL
		PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL
		CONSTRUCTION BASELINE			BUILDING AND STRUCTURES
		BOUNDARY LINE (State, County, Municipality)			SLOPE RATIO (HORIZONTAL TO VERTICAL)
		SURVEY MONUMENT			SLOPES (WITH SLOPE RATIO)
		SURVEY IRON			EDGE OF TRAVELED WAY
		DRILL HOLE, PK, OR STAKE			CUT OR FILL LINE
		WOODS OR BRUSH LINE			CLEARING LIMIT LINE
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT
		INDIVIDUAL TREE (Coniferous)			CONCRETE
		TREE, TO BE REMOVED			TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
		MARSH AREA			TEST PIT AND NUMBER
					MANHOLE
					CATCH BASIN
					WATER VALVE
					HYDRANT
					UTILITY POLE
					CLEAN OUT STRUCTURE
					UNDERGROUND GAS MAIN
					UNDERGROUND TELEPHONE LINE
					UNDERGROUND ELECTRICAL LINE
					OVERHEAD ELECTRICAL LINE
					SANITARY SEWER (SIZE & TYPE)
					FORCE MAIN (SIZE & TYPE)
					WATER MAIN (SIZE & TYPE)
					STORM DRAIN (SIZE & TYPE)
					UNDERDRAIN (SIZE & TYPE)
					CULVERT
					RAILROAD
					SILTATION FENCE
					PERIMETER DRAIN (SIZE & TYPE)
					LEACHATE TRANSPORT (SIZE & TYPE)
					LEACHATE COLLECTION (SIZE & TYPE)
					LEAK DETECTION, SIZE & TYPE

GENERAL NOTES:

- THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
- CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
- EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 85 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	<5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM WORK AREA PRIOR TO PLACING THE EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDDED.

MATERIALS -

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K)

10 LBS PER UNIT

SEED:	PERCENT
TALL FESCUE	50%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

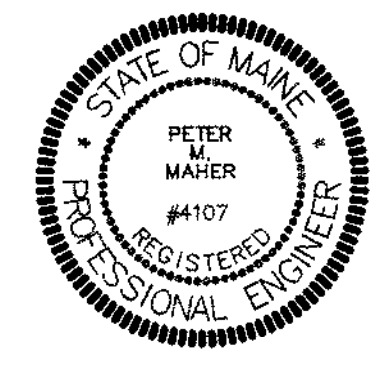
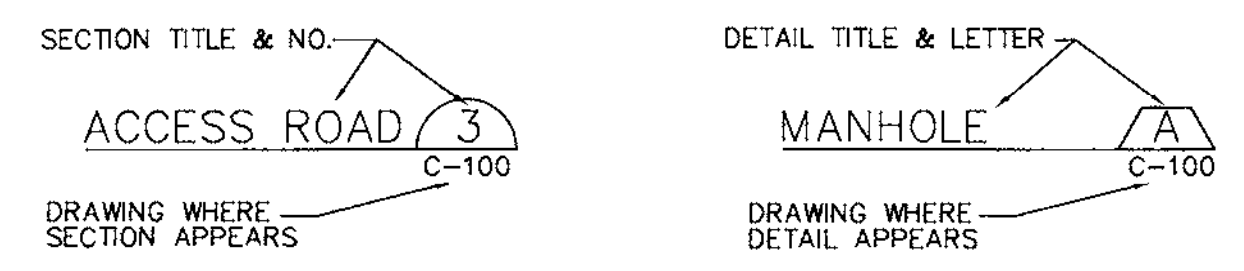
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

A.C.C.M.P.	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HOPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	PD	PERIMETER DRAIN
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT	P.L.	POINT OF INTERSECTION
AGG	AGGREGATE	DEPT	DEPARTMENT	I.D.	INSIDE DIAMETER	P.T.	POINT OF TANGENT
ALUM	ALUMINUM	DI	DIAMETER	IN OR "	INCHES	PERF	PERFORATED
APRD	APPROVED	DIA OR Ø	DIAMETER	INV	INVERT	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	DIM	DIMENSION	INV. EL	INVERT ELEVATION	PVC	POLYVINYL CHLORIDE
ASB	ASBESTOS	DIST	DISTANCE			PVMT	PAVEMENT
ASPH	ASPHALT	DN	DOWN	LB	POUND	QTY	QUANTITY
AUTO	AUTOMATIC	DR	DRAIN	LC	LEACHATE COLLECTION	R.O.W.	RIGHT OF WAY
AUX	AUXILIARY	DWG	DRAWING	LD	LEAK DETECTION	RAD	RADIUS
AVE	AVENUE	DR	DRAIN	LN FT.	LINEAR FEET	REQD	REQUIRED
AZ	AZIMUTH	EA	EACH	LOC	LOCATION	RT	ROUTE
		EG	EXISTING GROUND OR GRADE	LT	LEACHATE TRANSPORT	RTE	ROUTE
		ELEC	ELECTRIC	M.H.	MANHOLE	S	SLOPE
		ELB	ELBOW	M.J.	MECHANICAL JOINT	SCH	SCHEDULE
		EQUIP	EQUIPMENT	MATL	MATERIAL	SF	SQUARE FEET
		EST	ESTIMATED	MAX	MAXIMUM	SHIT	SHIT
		EXC	EXCAVATE	MFR	MANUFACTURE	STA	STATION
		EXIST	EXISTING	MIN	MINIMUM	SY	SQUARE YARD
		F.G.	FINISH GRADE	MISC	MISCELLANEOUS	TAN	TANGENT
		FBRGL	FIBERGLASS	MON	MONUMENT	TDH	TOTAL DYNAMIC HEAD
		FM	FOUNDATION	N.I.T.C.	NOT IN THIS CONTRACT	TEMP	TEMPORARY
		FLEX	FLEXIBLE	N.T.S.	NOT TO SCALE	TYP	TYPICAL
		FLG	FLANGE	N/F	NOW OR FORMERLY	V	VOLTS
		FLR	FLOOR	NO. OR #	NUMBER	W/	WITH
		FPS	FEET PER SECOND	O.C.	ON CENTER	W/O	WITHOUT
		FT OR'	FEET	O.D.	OUTSIDE DIAMETER	YD	YARD
		FTG	FOOTING				
		GA	GAUGE				
		GAL	GALLON				
		GALV	GALVANIZED				
		GPD	GALLONS PER DAY				
		GPM	GALLONS PER MINUTE				

VIEW MARKERS & IDENTIFICATION



DRAWING NO.	REFERENCE DRAWING TITLE	CODE NO.	DATE	REVISION	BY	CHKD	APPROV	JOB NO.
			2/20/96	ISSUED FOR BID				
			2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

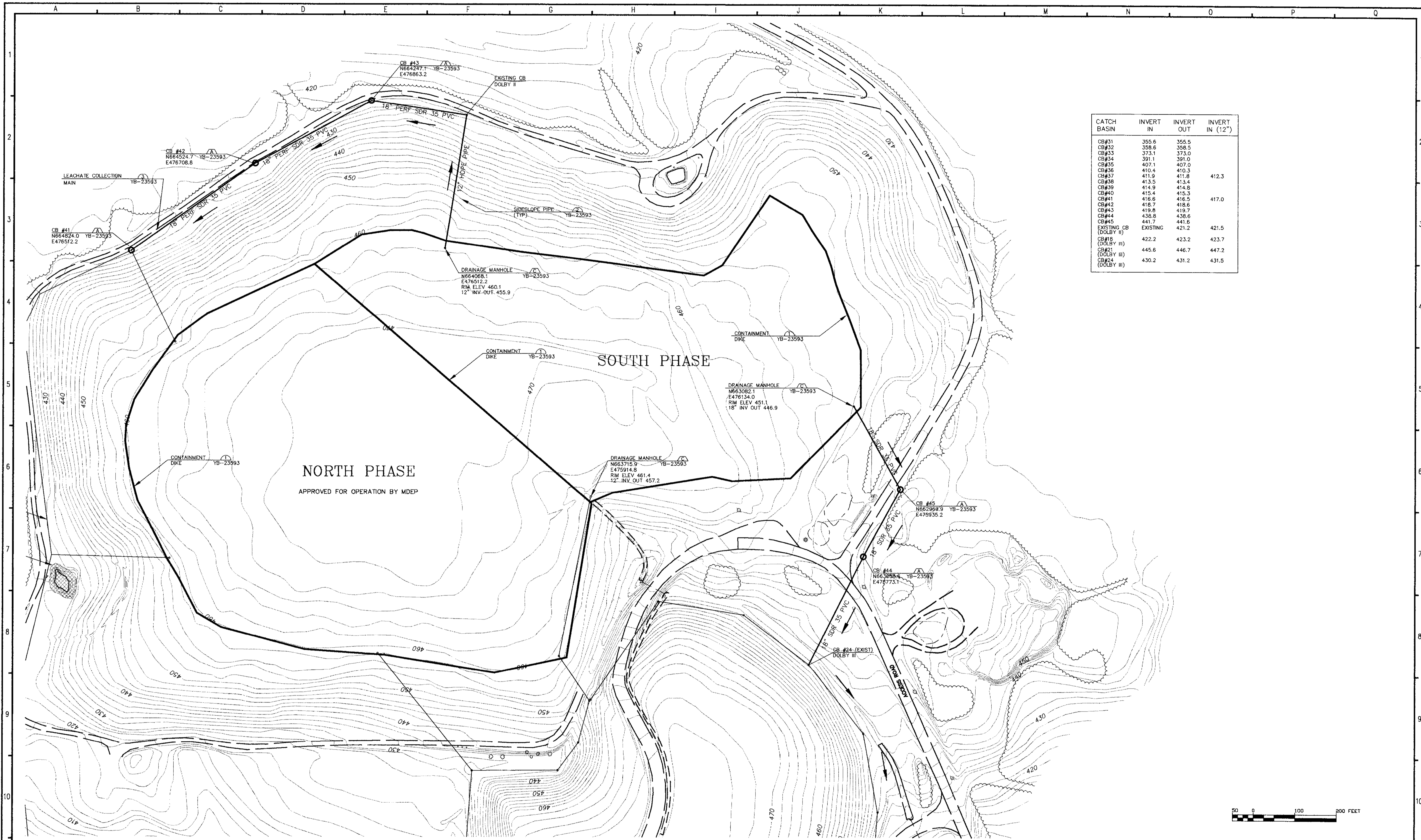
JOB NO. 95068

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CHK	GHG
CHK	
CORR	
APPROV	

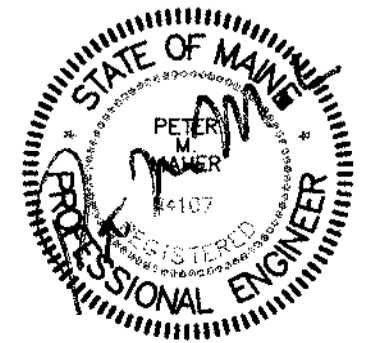
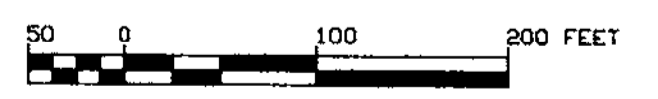


EAST OPERATION
DOLBY II LANDFILL REGRADING
SYMBOLS & ABBREVIATIONS

JOB NO. 67996
ENG. REG. NO. _____
FILE NO. 2-092-4603,7082
YB-23587



CATCH BASIN	INVERT IN	INVERT OUT	INVERT IN (12")
CB#31	355.6	355.5	
CB#32	358.6	358.5	
CB#33	373.1	373.0	
CB#34	391.1	391.0	
CB#35	407.1	407.0	
CB#36	410.4	410.3	
CB#37	411.9	411.8	412.3
CB#38	413.5	413.4	
CB#39	414.9	414.8	
CB#40	415.4	415.3	
CB#41	416.6	416.5	417.0
CB#42	418.7	418.6	
CB#43	419.8	419.7	
CB#44	438.8	438.6	
CB#45	441.7	441.6	
EXISTING CB (DOLBY II)	EXISTING	EXISTING	421.5
CB#18 (DOLBY III)	422.2	423.2	423.7
CB#21 (DOLBY III)	445.6	446.7	447.2
CB#24 (DOLBY III)	430.2	431.2	431.5



BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE - PHOTO DATE 10/23/95.									
GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE									
STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.			12/28/97	RECORD DRAWING					
			3/11/97	PROJECT STATUS TO MDEP					
			2/20/96	ISSUED FOR BID					
			2/9/96	SUBMITTED TO CLIENT					
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

DRN
CHK
CHK
CORR
APPVD

ISSUE CODE
P - Prelim B - Bids
M - Mtl. T.O. C - Const.
SCALE AS SHOWN

JOB NO. 95068

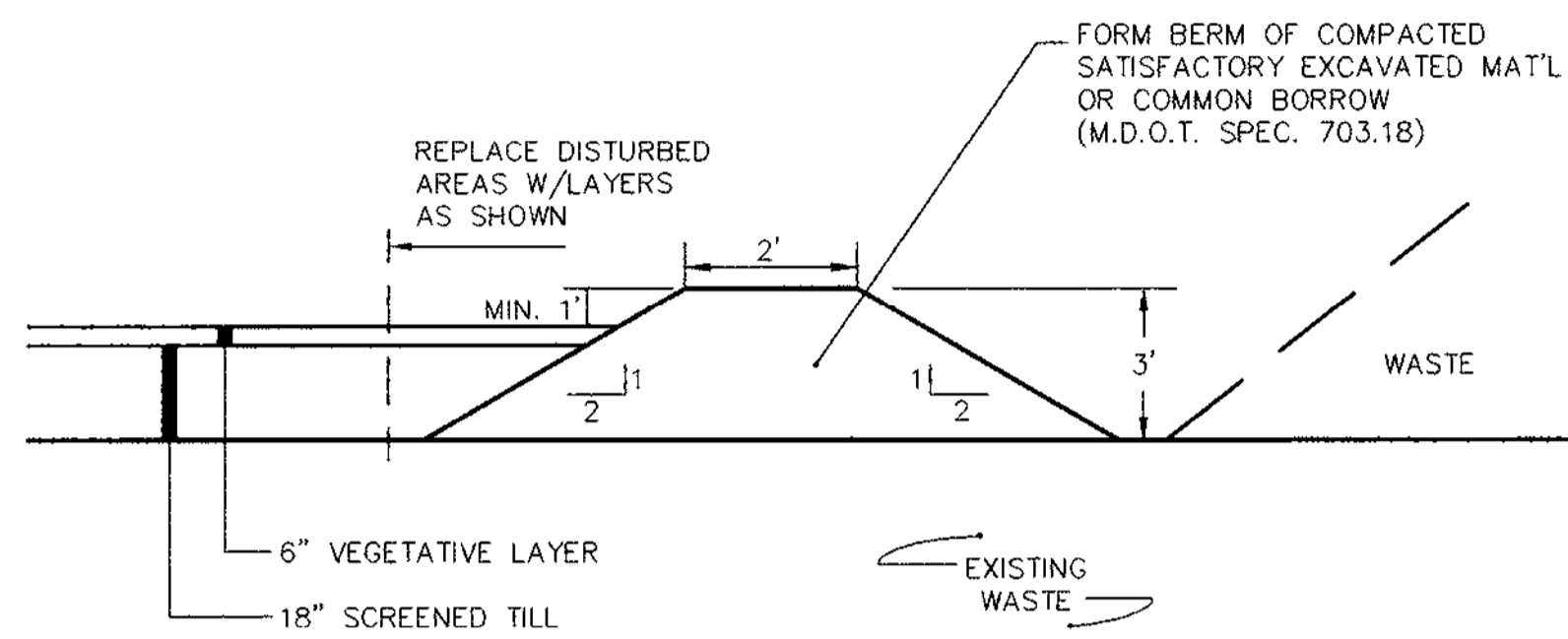
BOWATER
Great Northern Paper

EAST OPERATION
DOLBY II LANDFILL REGRADING
DOLBY II SOUTH SITE DEVELOPMENT PLAN

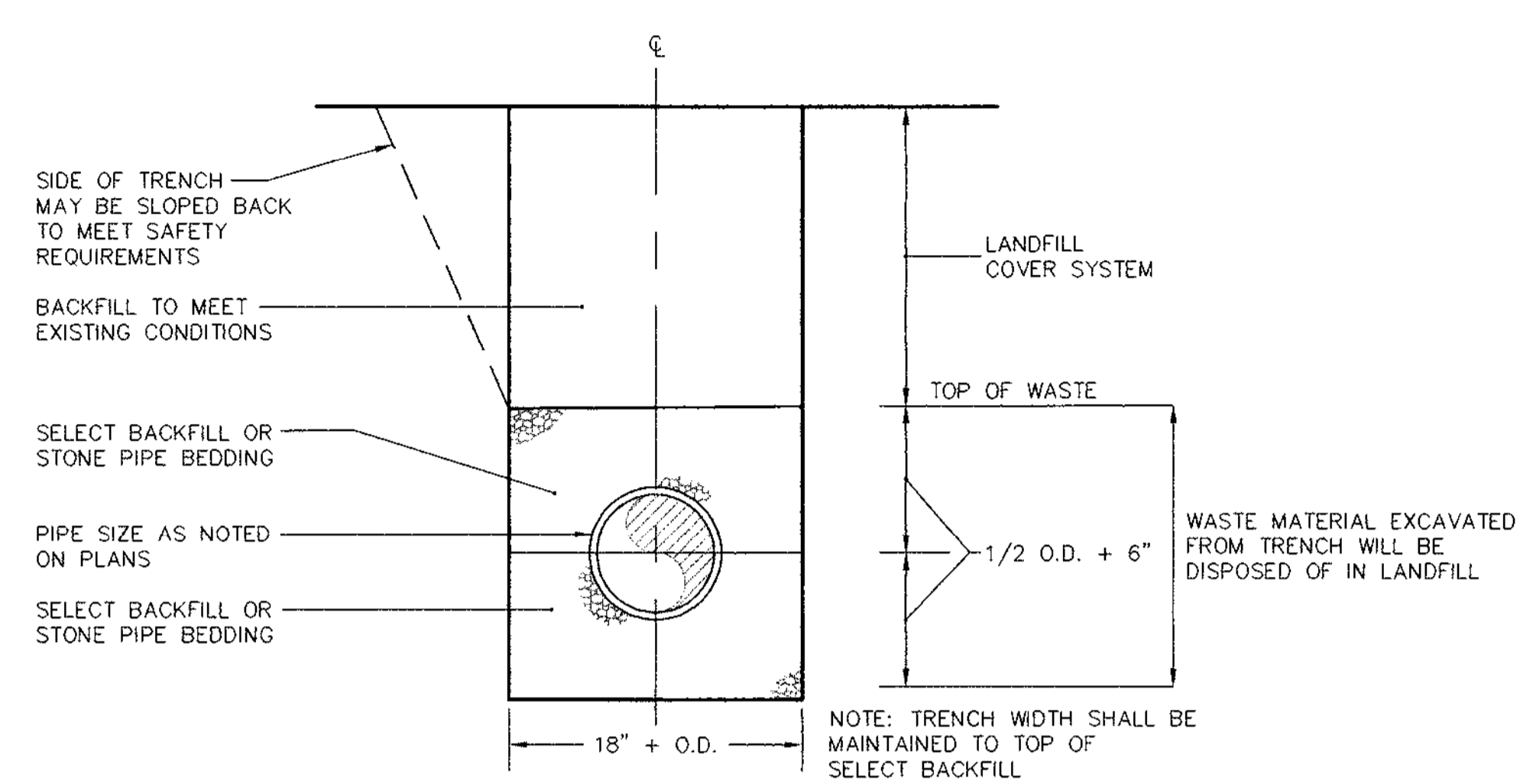
JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-23591

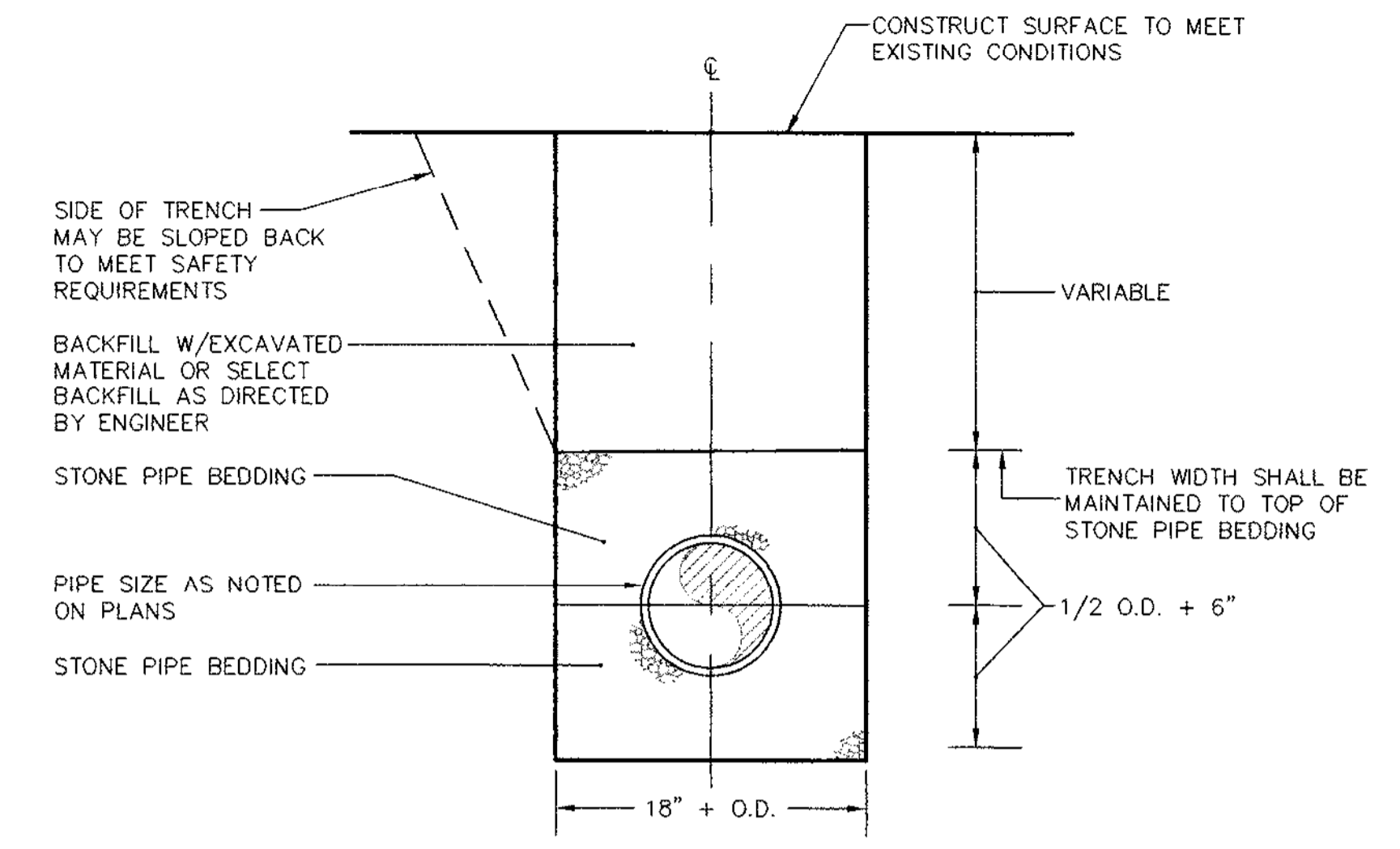
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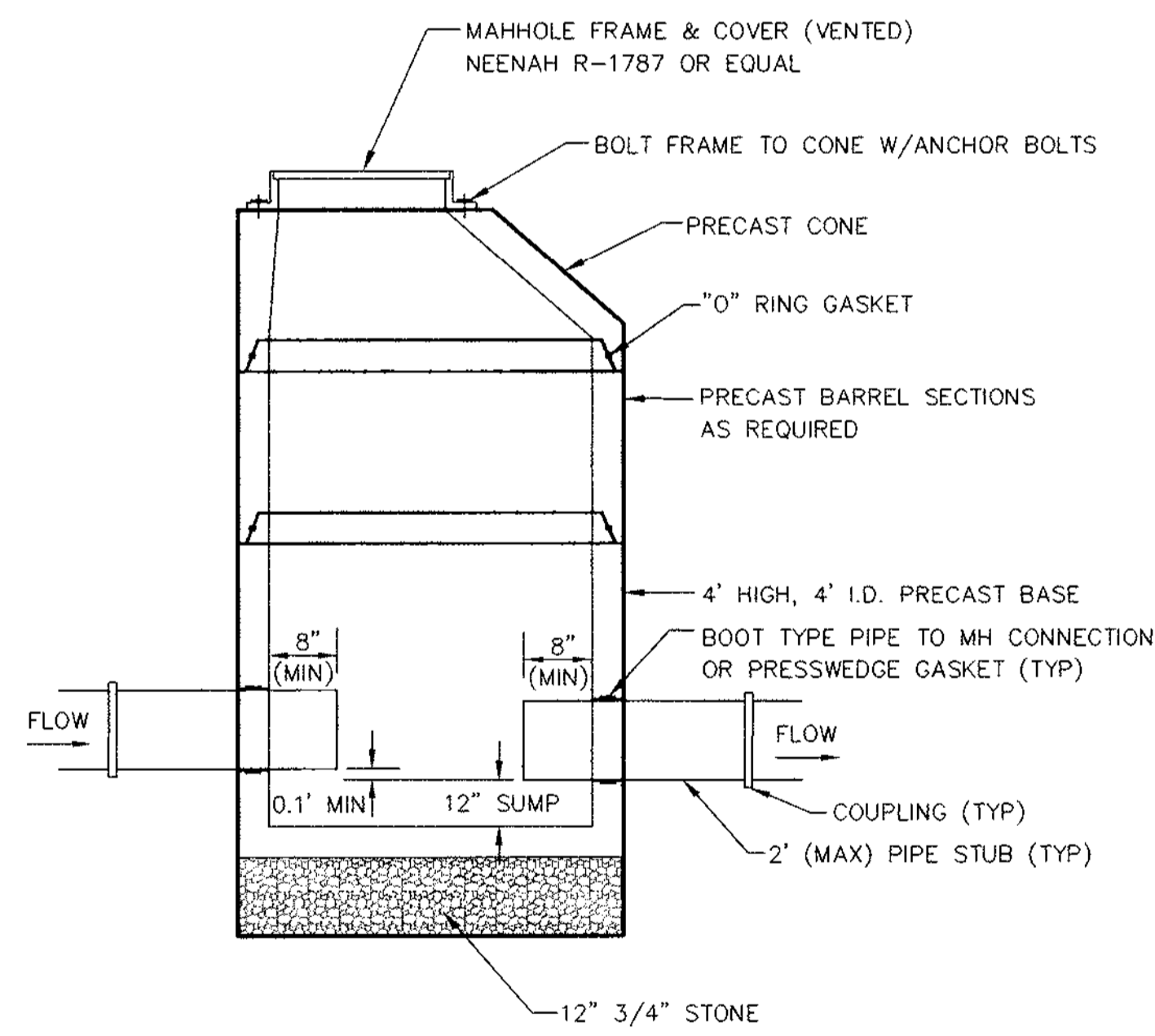
DIKE SECTION
NTS
YB-23590
YB-23591



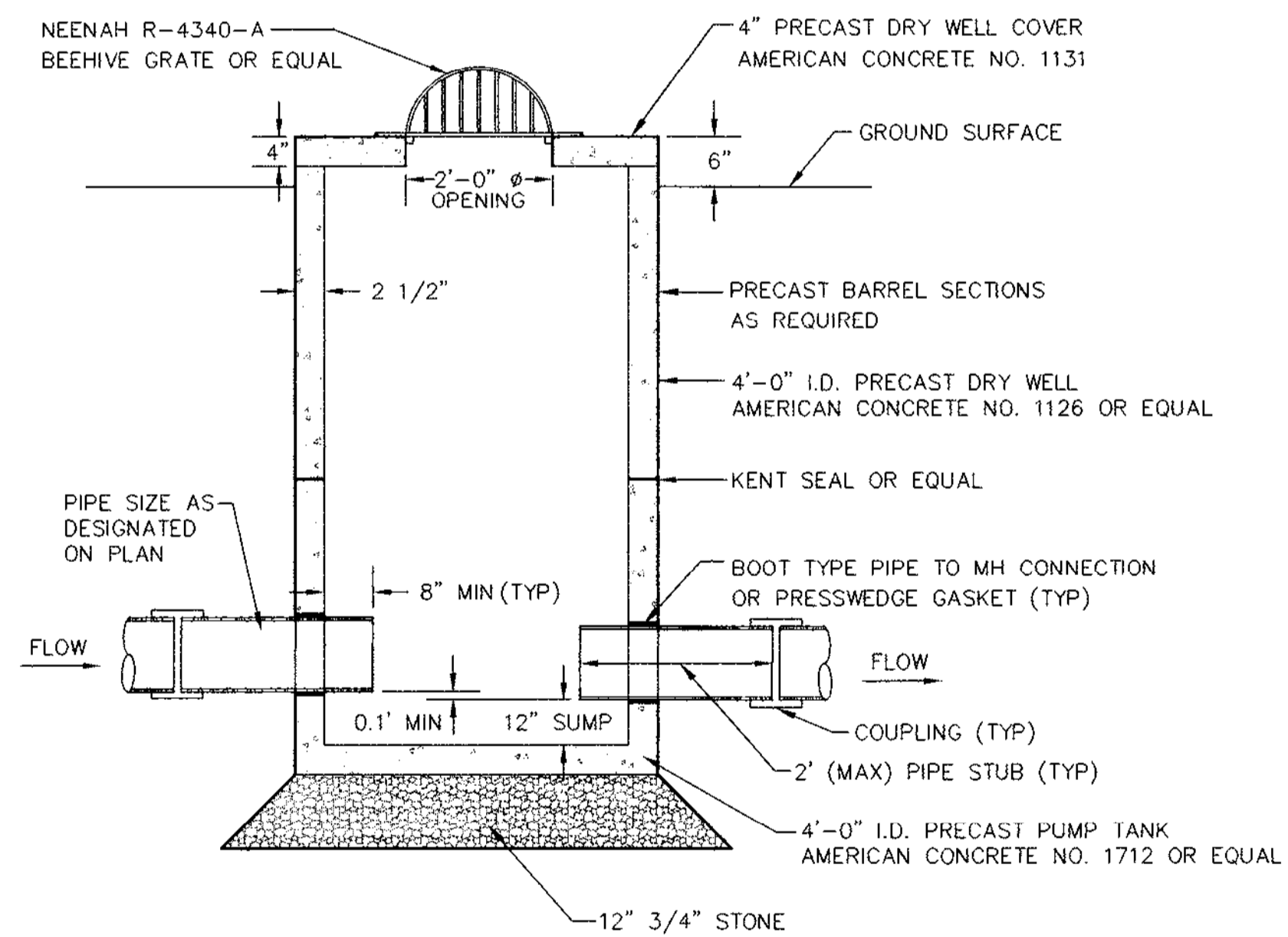
SIDESLOPE PIPE TRENCH
NTS
YB-23590
YB-23591



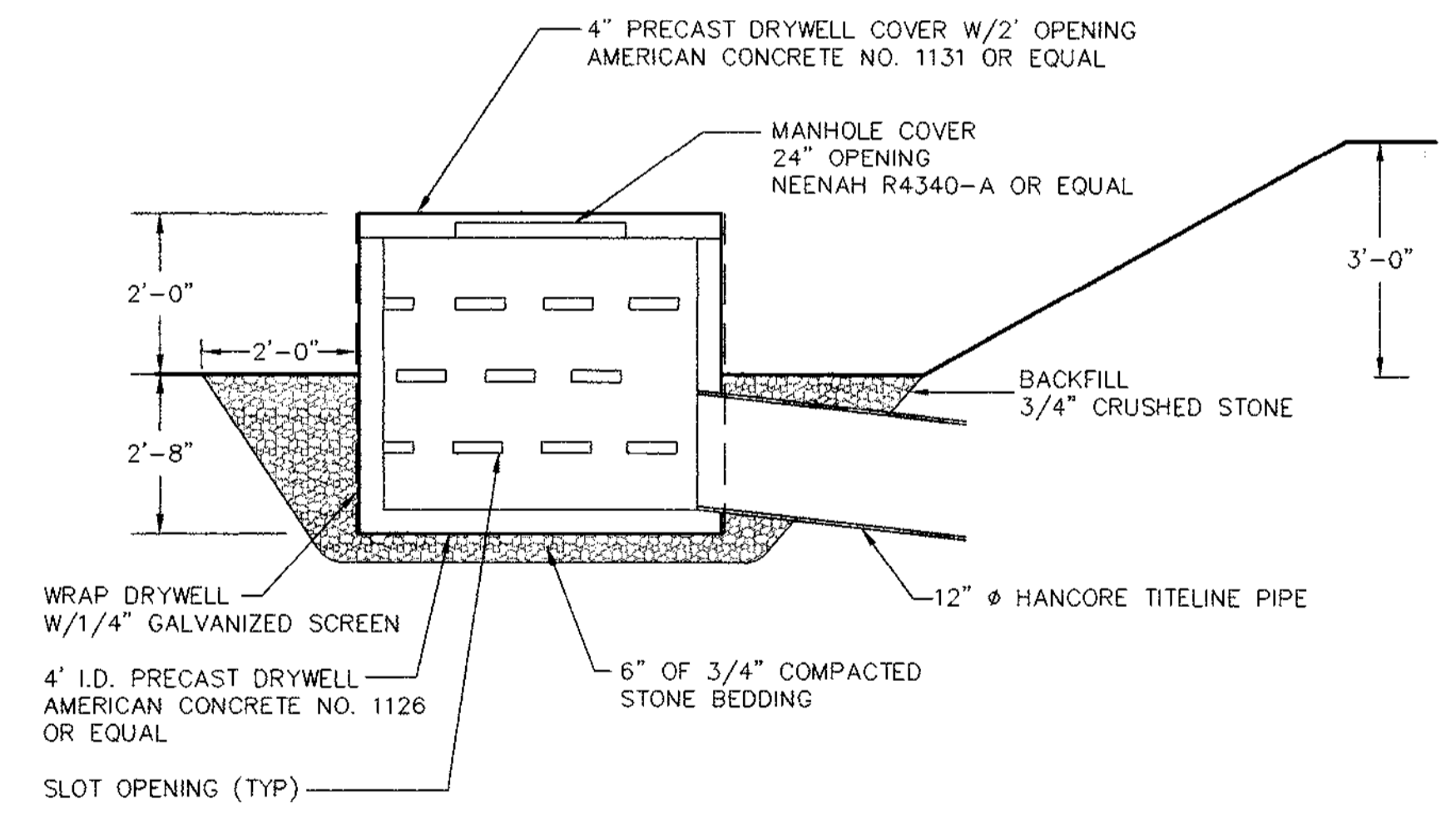
LEACHATE COLLECTION MAIN PIPE TRENCH
NTS
YB-23590
YB-23591



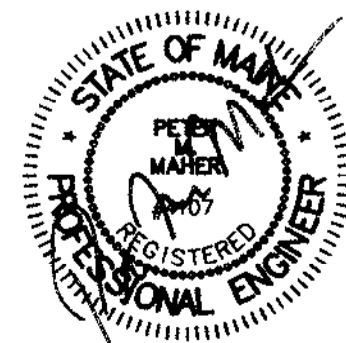
TYPICAL MANHOLE
NTS
YB-23590
YB-23591



CATCH BASIN
NTS
YB-23590



DRAINAGE MANHOLE
NTS
YB-23590
YB-23591



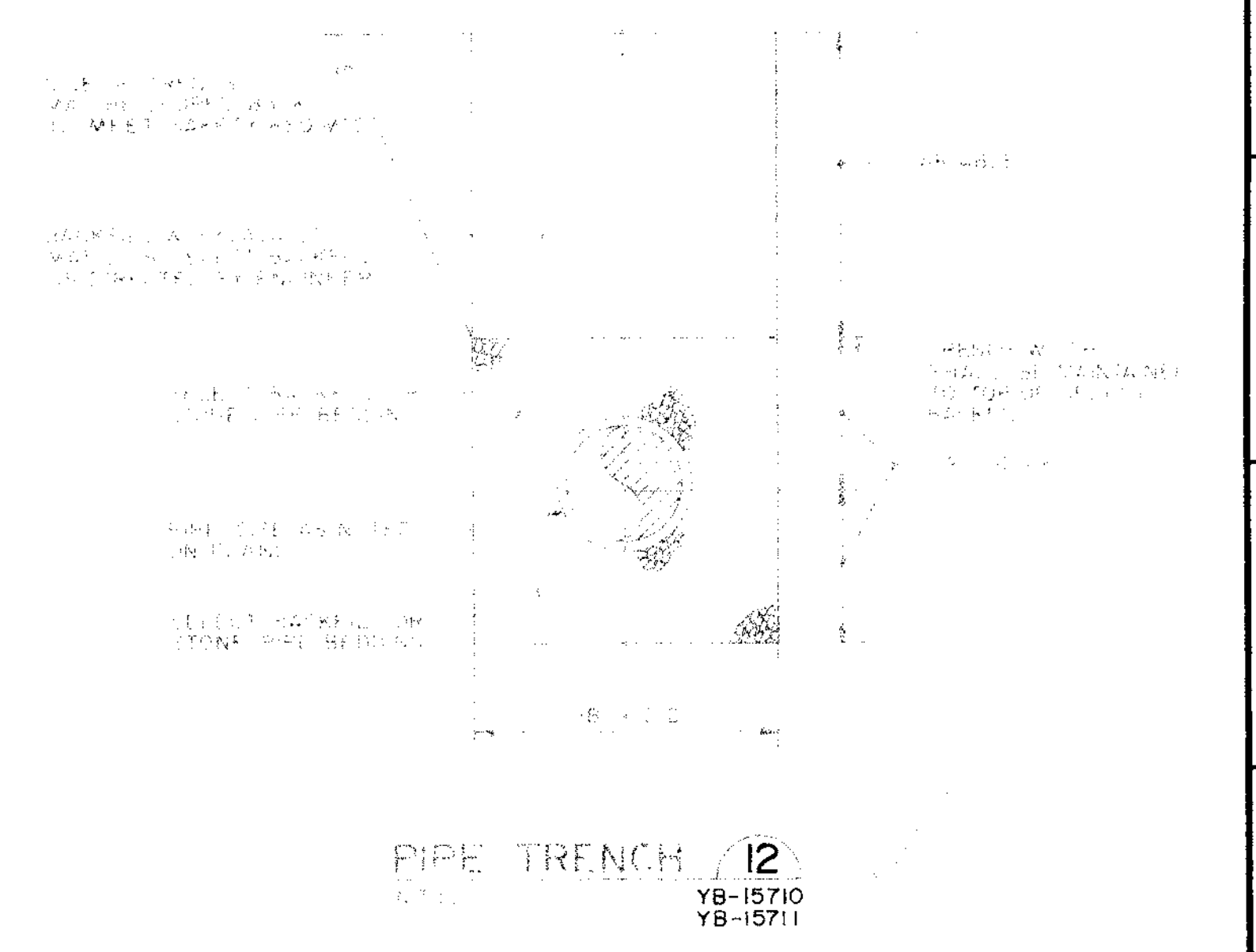
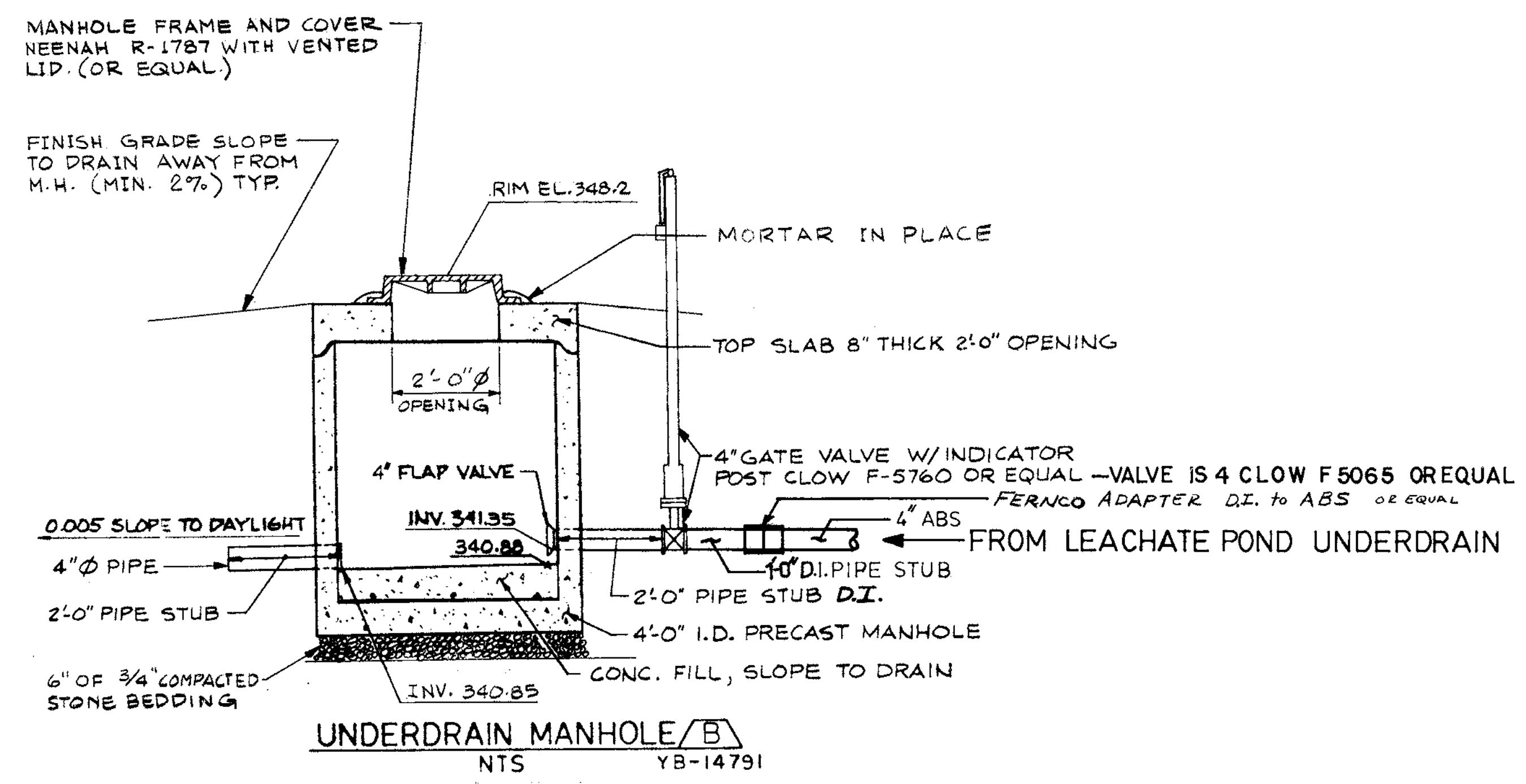
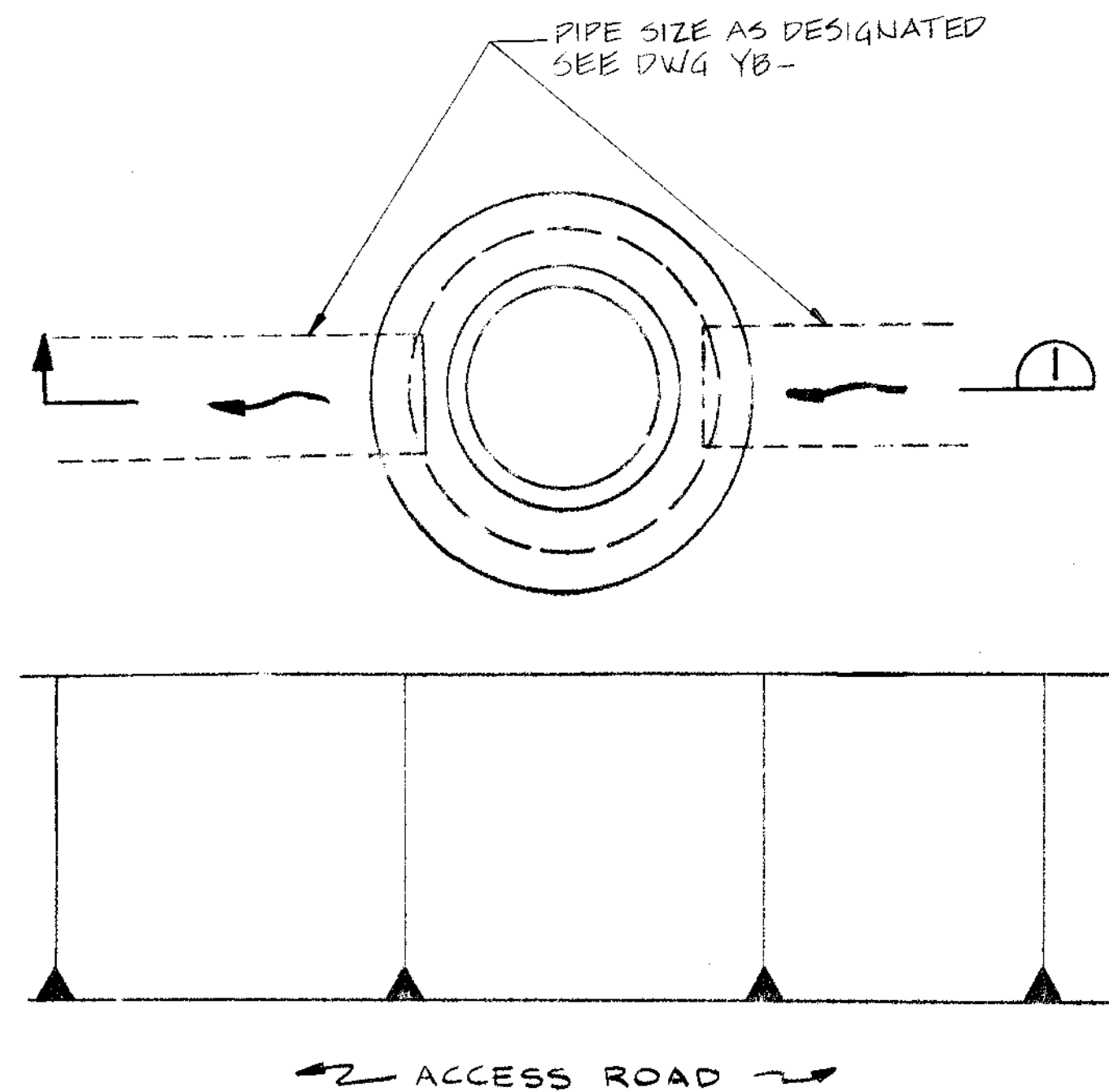
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				1/16/97	RECORD DRAWING				
				2/20/96	ISSUED FOR BID				
				2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE
JOB NO. 95068

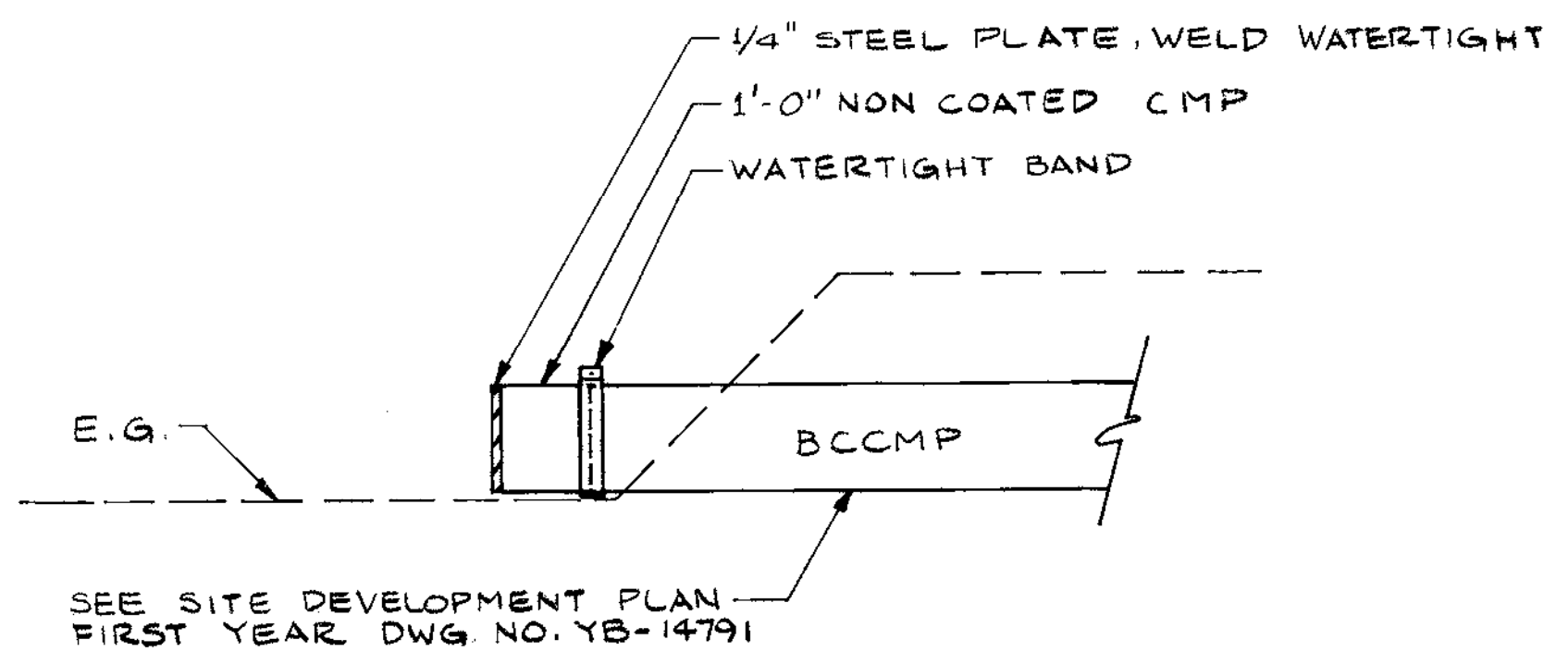
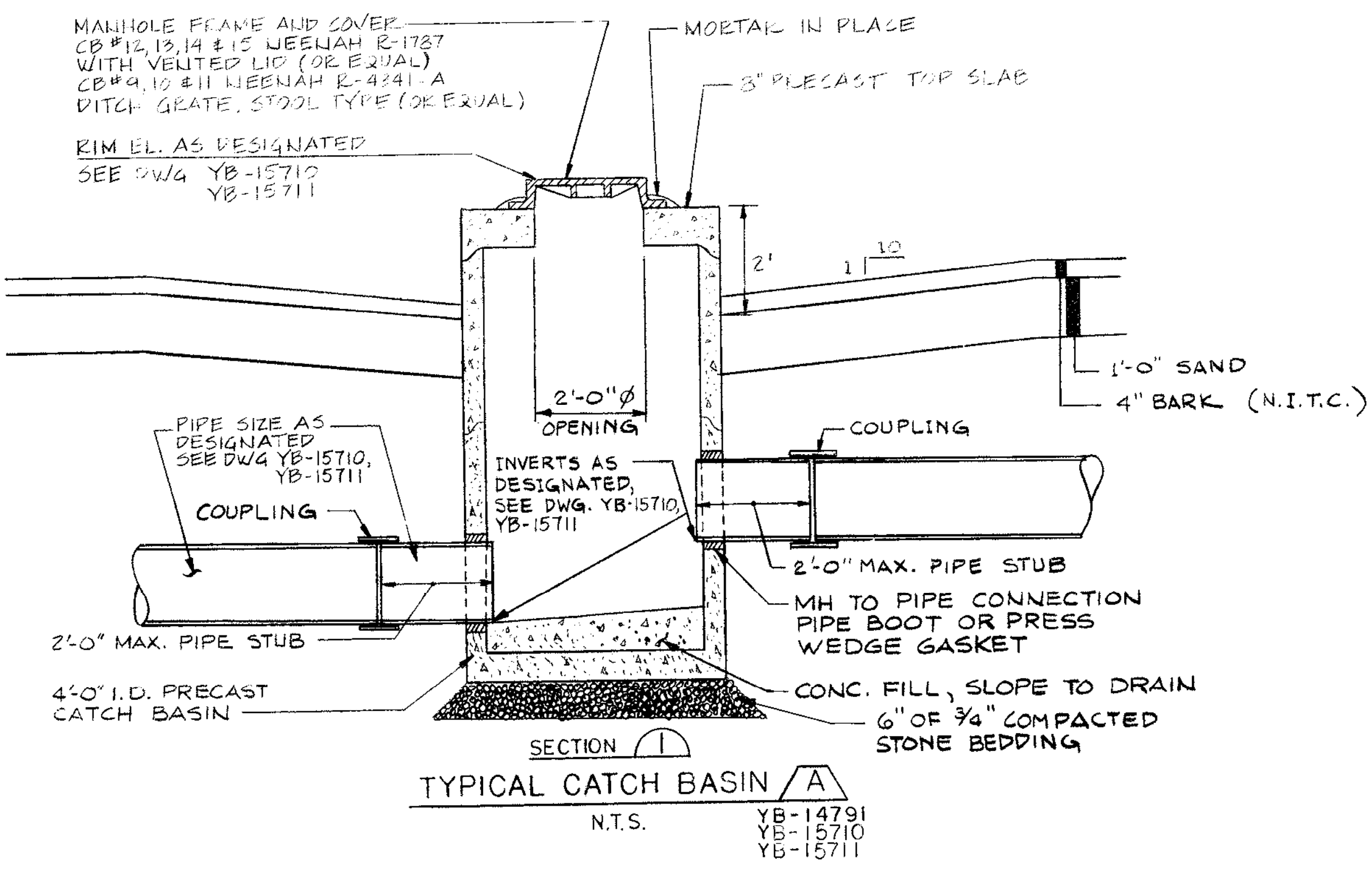
DRN	
CHK	<i>SMC</i>
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mfr T.O.	C - Const.
SCALE AS SHOWN	



EAST OPERATION
DOLBY II LANDFILL REGRADING SECTIONS & DETAILS
JOB NO. 67996
ENG. REQ. NO. _____
FILE NO. 2-092-4703,7082
YB-23593

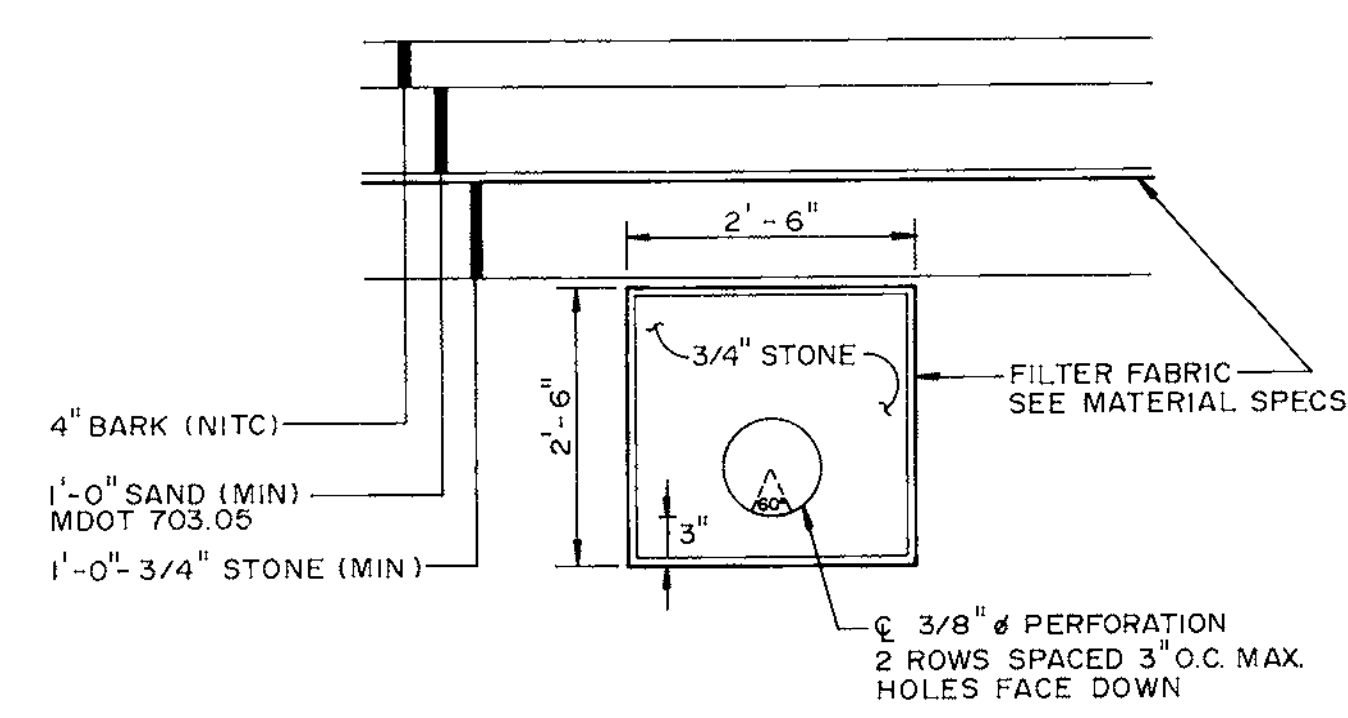


PLAN



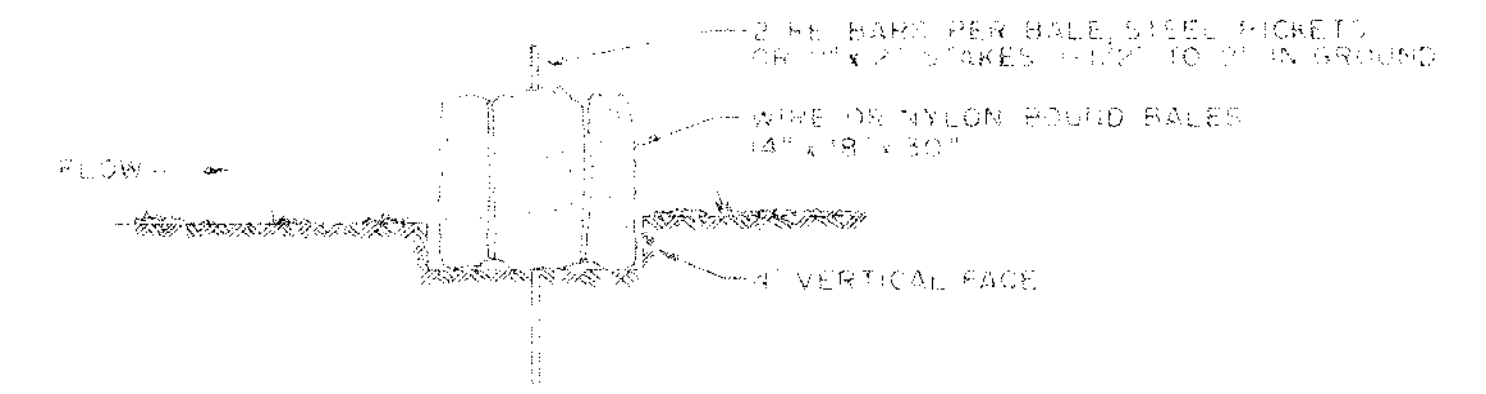
TEMPORARY CULVERT CAP / C

NTS. YB-14791



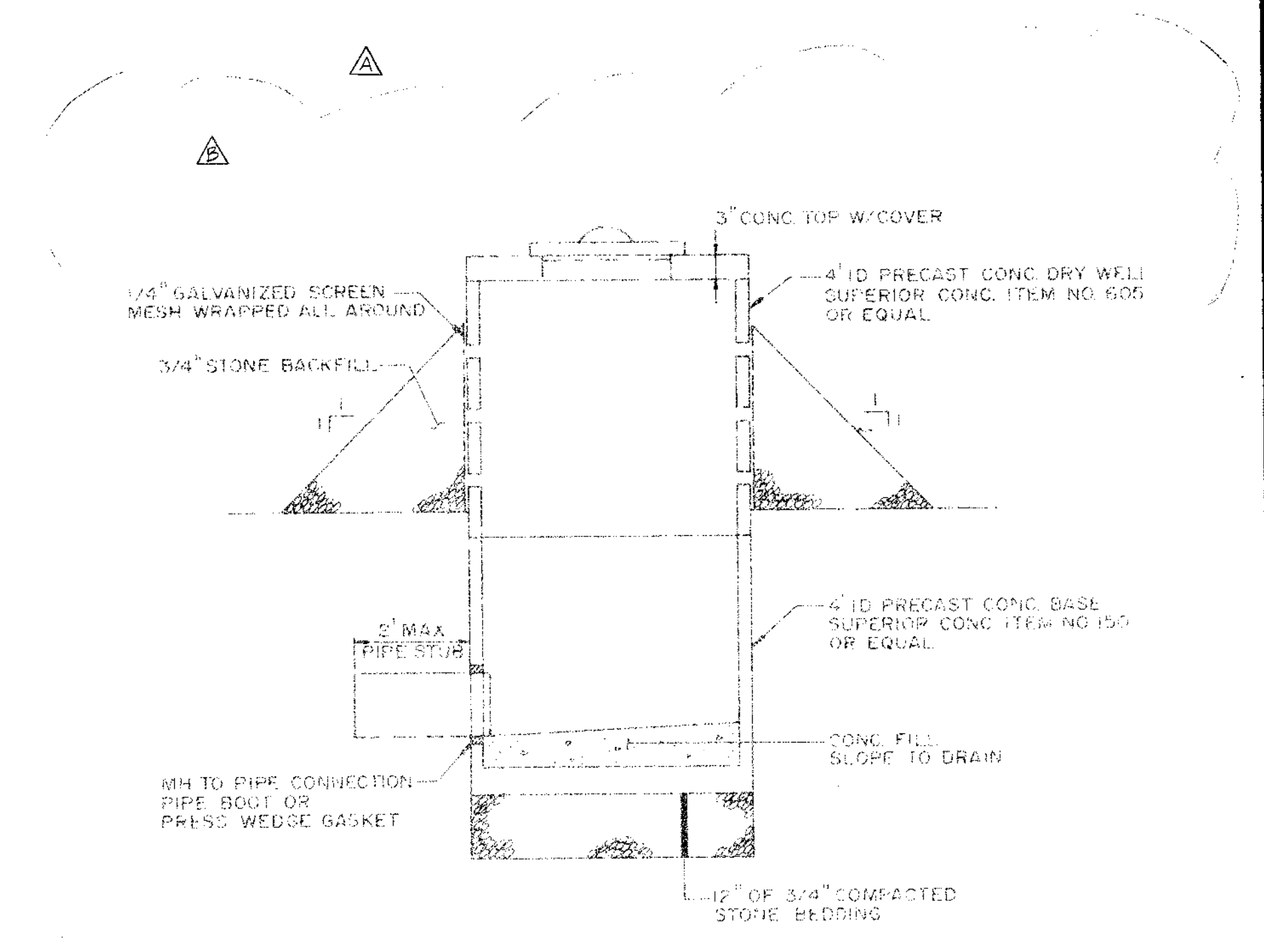
AREA DRAIN-CELL 2 / B

NTS. YB-15711A



STRAW BALE DIKE / N

NTS. YB-15711



POND INLET / P

NTS. YB-15710



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		C	C	12/1/83	RECORD DRAWING	MJC	BRZ		94473
		C	B	11/14/87	NOT IN THIS CONTRACT	MJC	BRZ		94473
		C	A	5/14/87	GENERAL REVISION FOR TOP # 94473 CELL 2	MJC	ECS	WJN	94473

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

ISSUE CODE
P - PRELIM B - BIDS
M - MTL T.O. C - CONST
SCALE AS NOTED

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
LANDFILL AREA
DRAINAGE DETAILS

JOB NO. 2668
ENG. REG. NO. 2-8313
FILE NO. 2-092-7082

YB-14793-C

GREAT NORTHERN PAPER CO. MILLINOCKET, MAINE

DOLBY 3 LANDFILL CELL 2 CONSTRUCTION

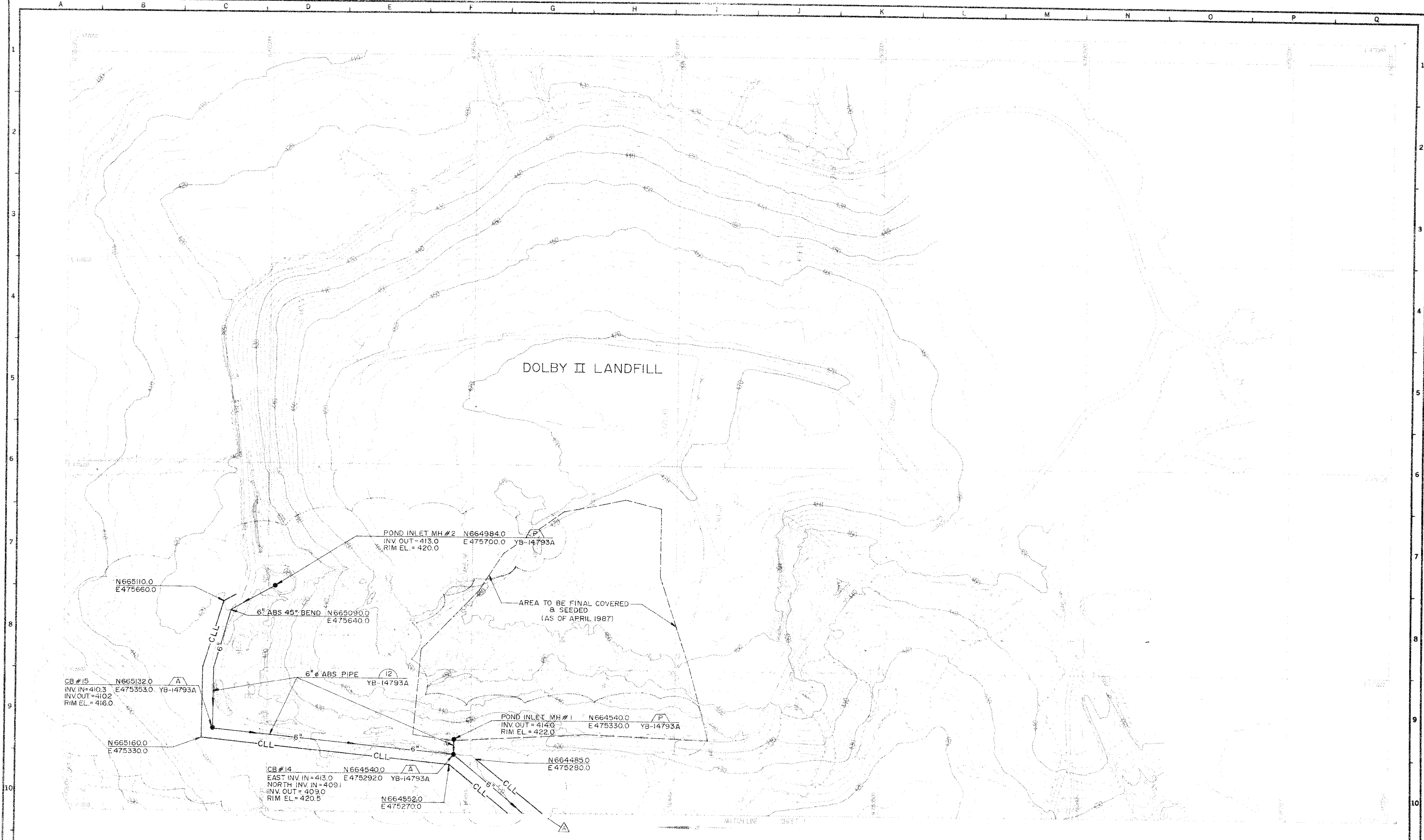
CELL	DESCRIPTION	DATE	BY
CELL 1	STANDARD	10/15/87	SMITH
CELL 2	STANDARD	10/15/87	SMITH
CELL 3	STANDARD	10/15/87	SMITH
CELL 4	STANDARD	10/15/87	SMITH
CELL 5	STANDARD	10/15/87	SMITH
CELL 6	STANDARD	10/15/87	SMITH
CELL 7	STANDARD	10/15/87	SMITH
CELL 8	STANDARD	10/15/87	SMITH
CELL 9	STANDARD	10/15/87	SMITH
CELL 10	STANDARD	10/15/87	SMITH

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

1987



SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE
1987



John S. Seavey
1/11/87

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPRD	ISS. NO.
		C	A	1/11/87	NOT IN THIS CONTRACT				

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

DRN	VAT	6-42
CKD	JNC	6-487
CKD	ECG	6-387
COLR	WAN	6-352
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTLY. OF C - CONST		
SCALE 1" = 100'		

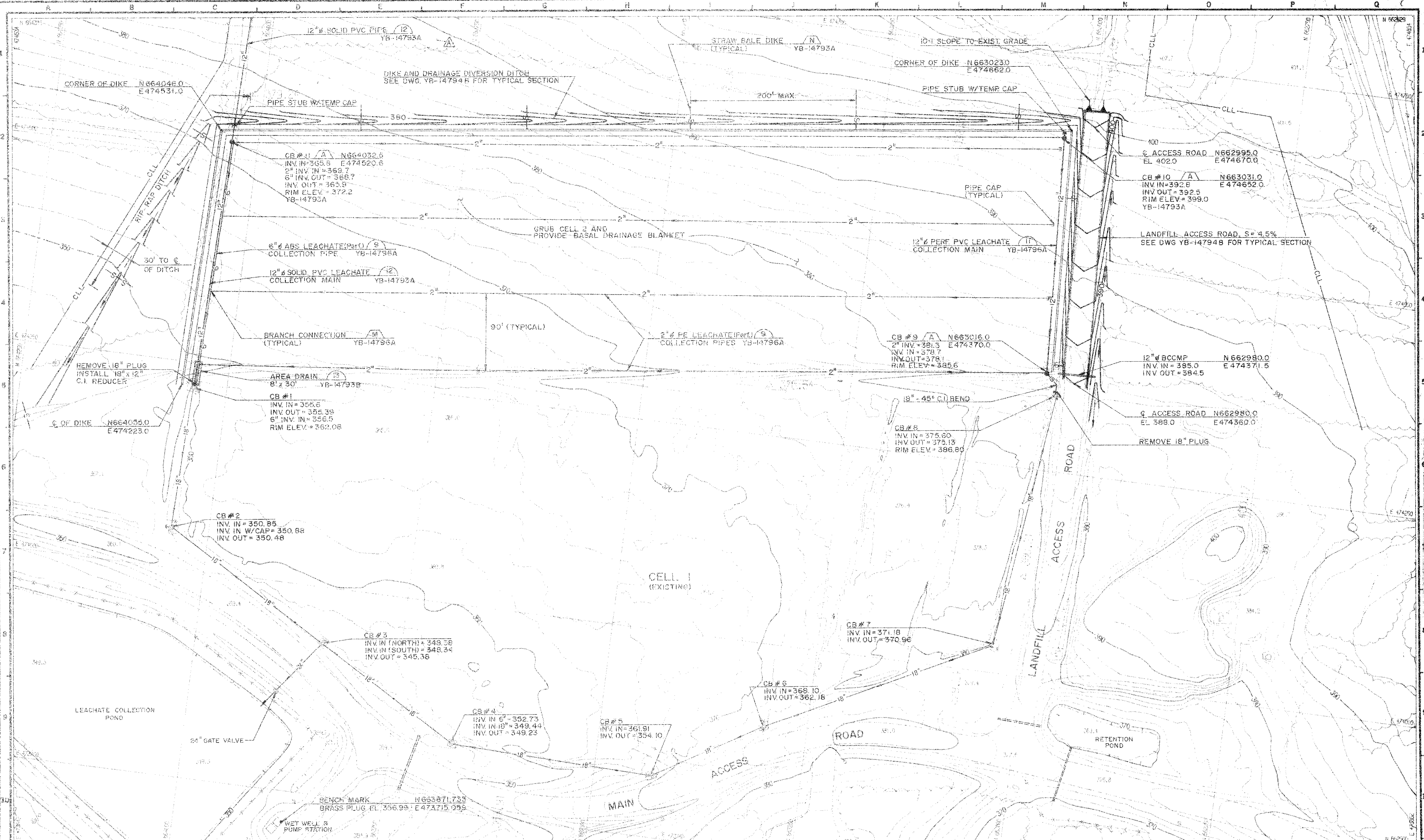


CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
CELL 2
SITE LOCATION PLAN

JOB NO. 94473
ENG. REG. NO. 2-8516
FILE NO. 2-092-4703, 7082

YB-15710 A
SHEET 2 OF 2

JOB NO. 8717



DRIVING REL.	REFERENCE DRAWING TITLE	DATE	BY	CHKD	APPVD	DATE
YB-15263	DOLBY 3 LANDFILL AREA TOPOGRAPHIC SURVEY & DIGITIZATION AS OF 12-9-85	03/92	NO	WAB		

SEVEE & MAHER ENGINEERS, P.A.
WESTBROOK, MAINE

CHKD	PAF	6-2-87
CHKD	JHC	6-4-87
CHKD	EC5	6-3-87
CHKD	JRN	6-3-87
APPRD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL. T.O.C.	C - CONST	
SCALE 1" = 50'		



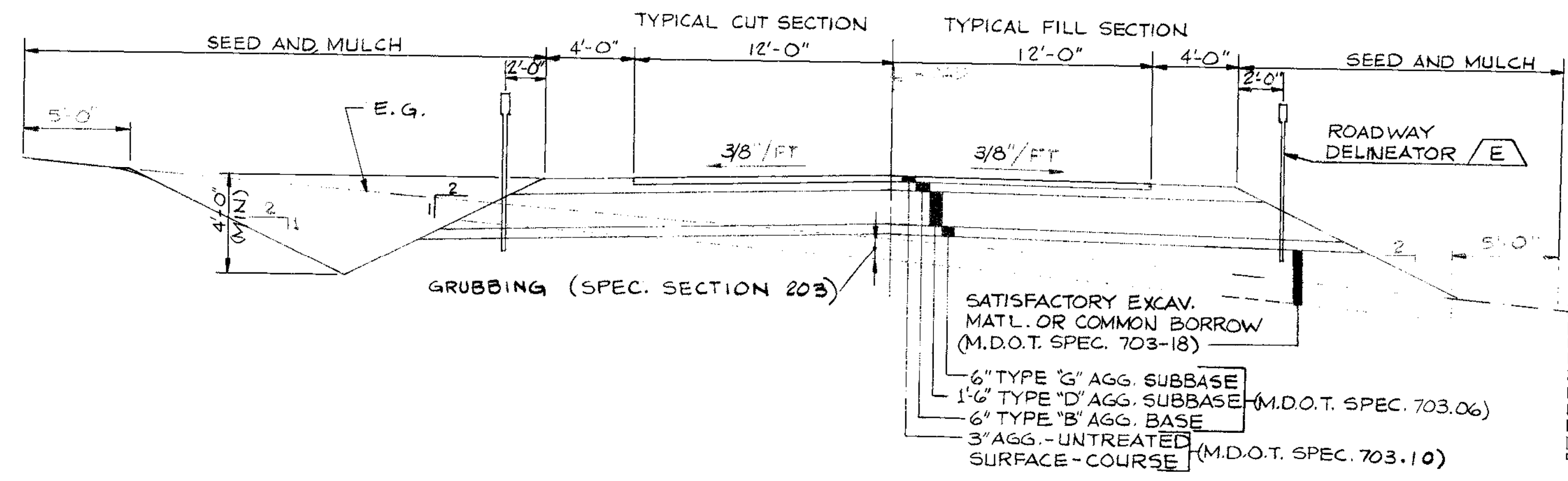
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
SITE DEVELOPMENT PLAN
CELL 2

JOB NO. 24473
ENG. REG. NO. 2-8516
FILE NO. 2-092-7082

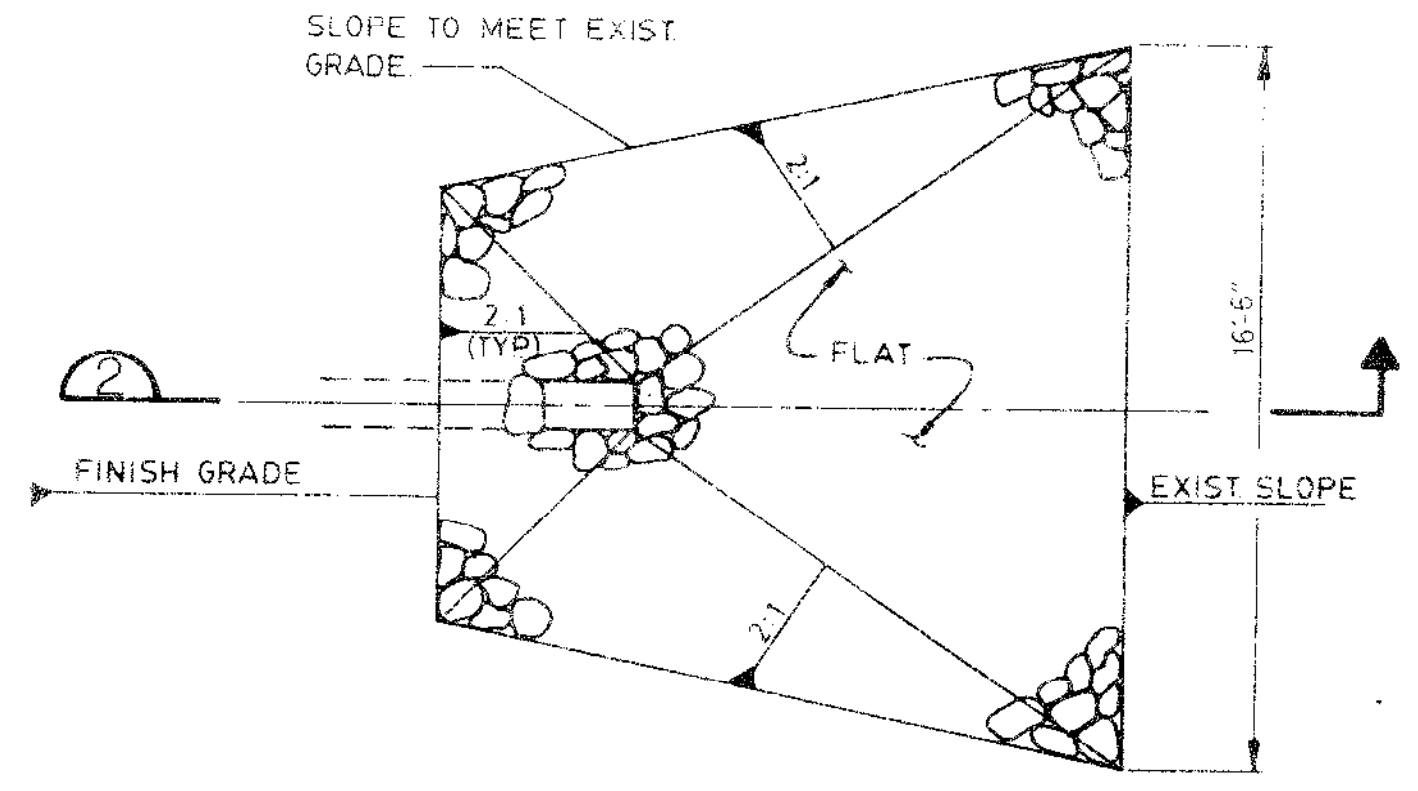
YB-15711A

RECORD DRAWING
NOT IN THIS CONTRACT

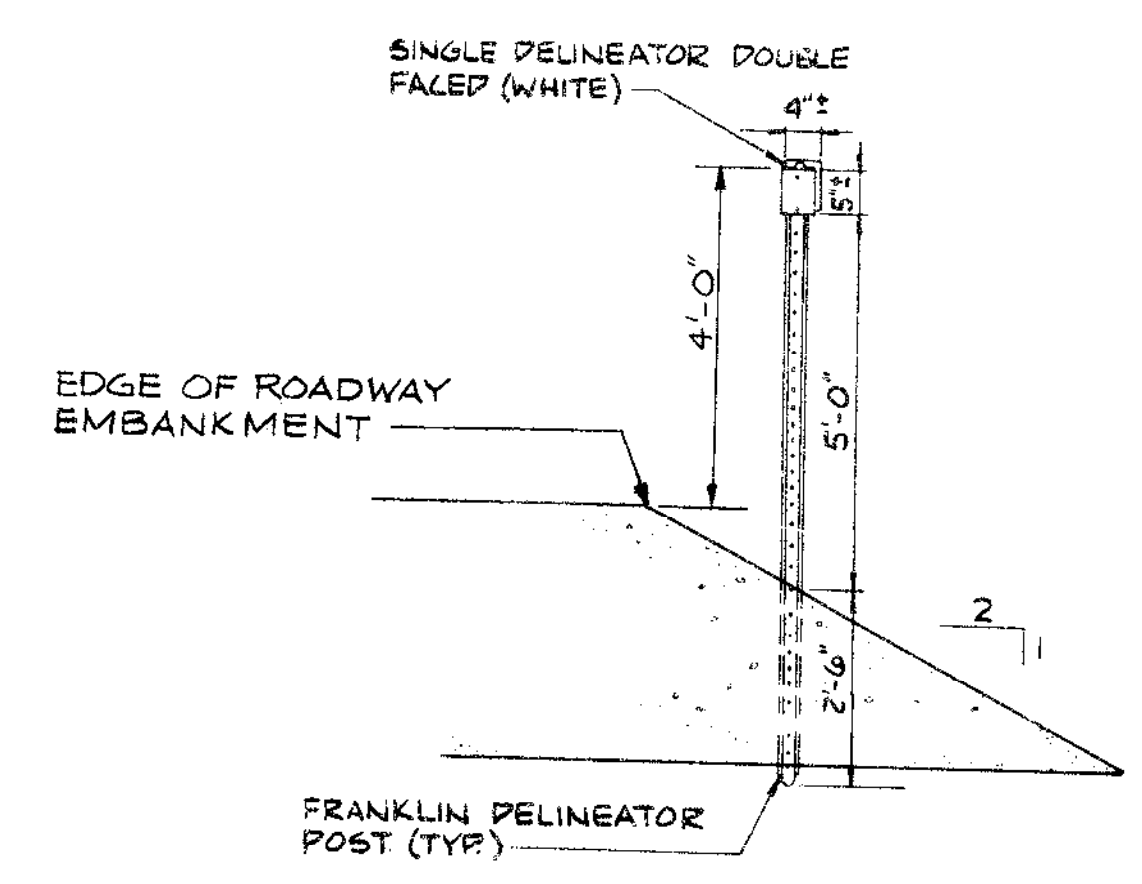
JOB NO. 0717



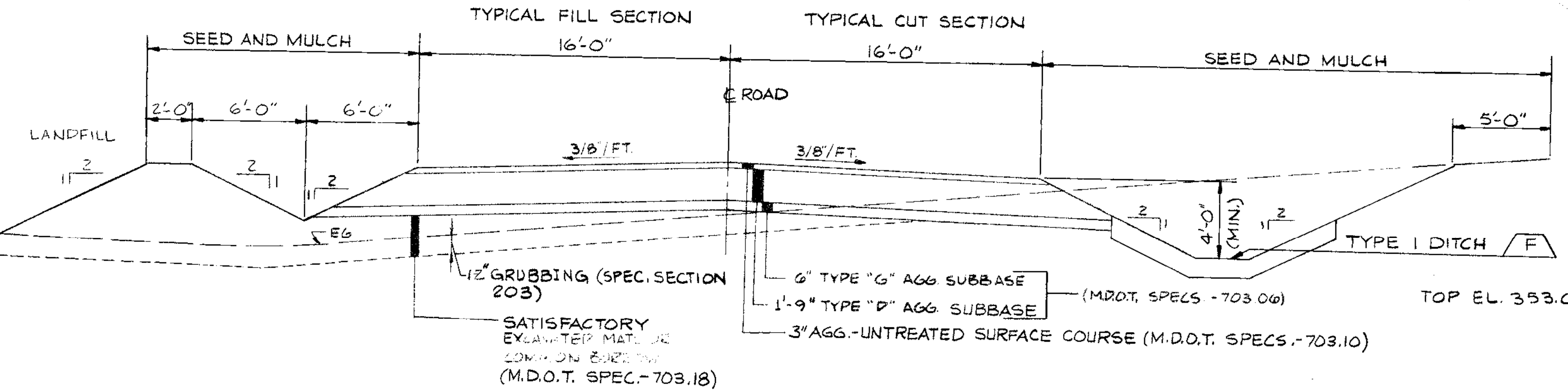
TYPICAL SECTION
MAIN ACCESS ROAD
N.T.S.



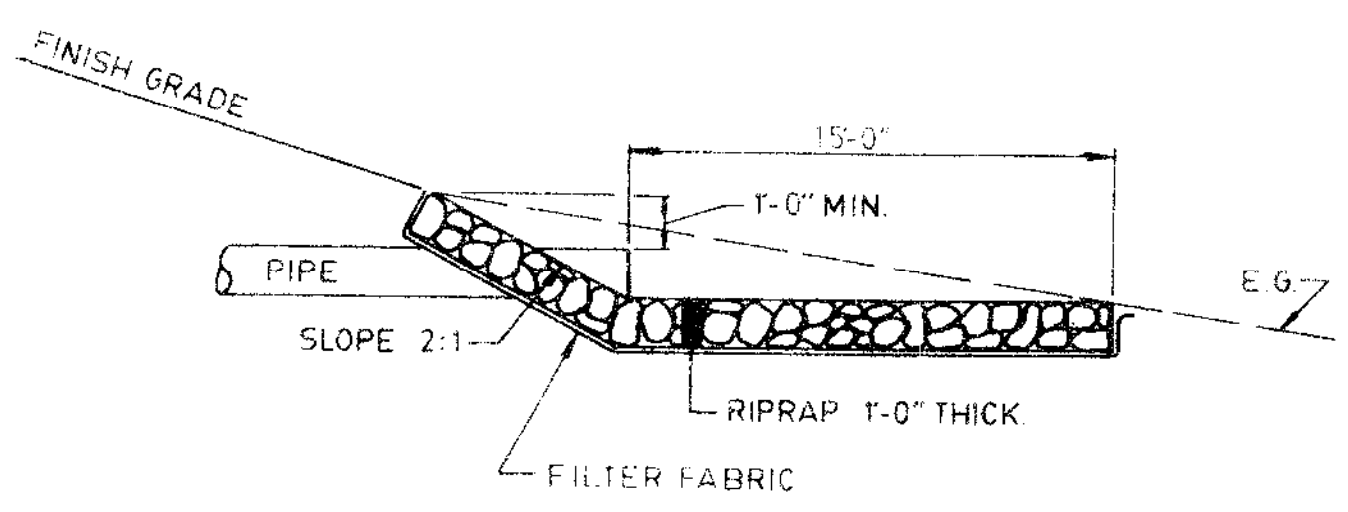
PLAN



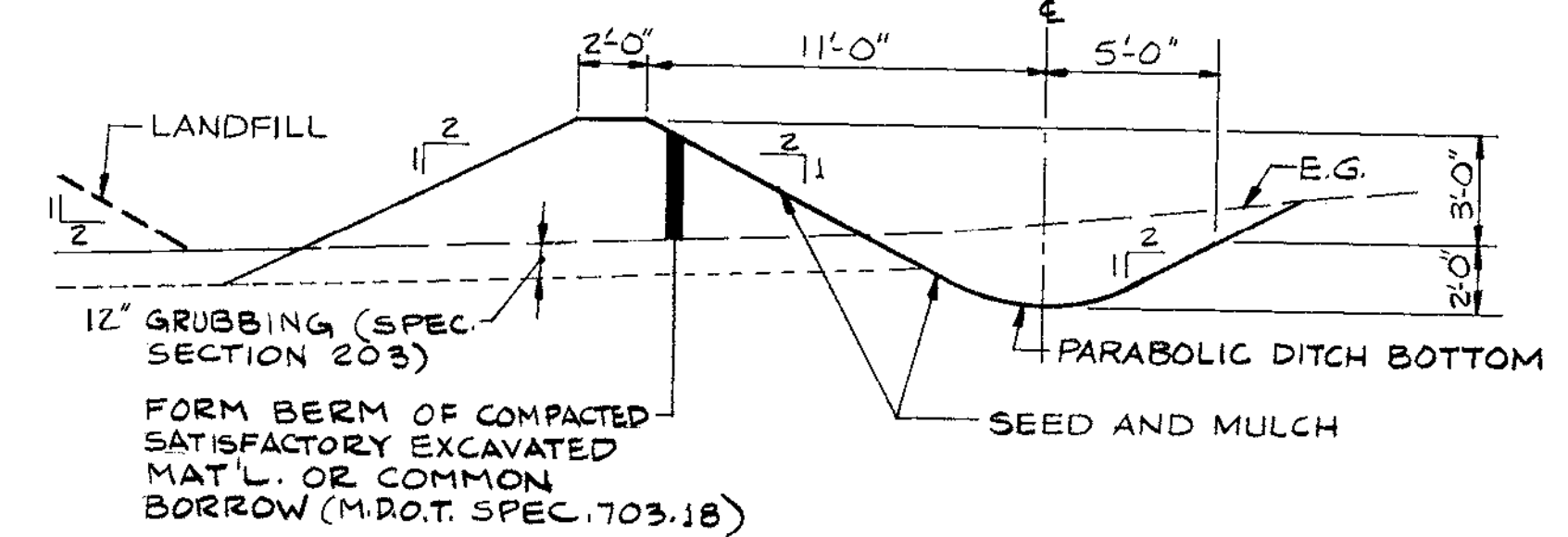
ROADWAY DELINEATOR
N.T.S. YB-14791



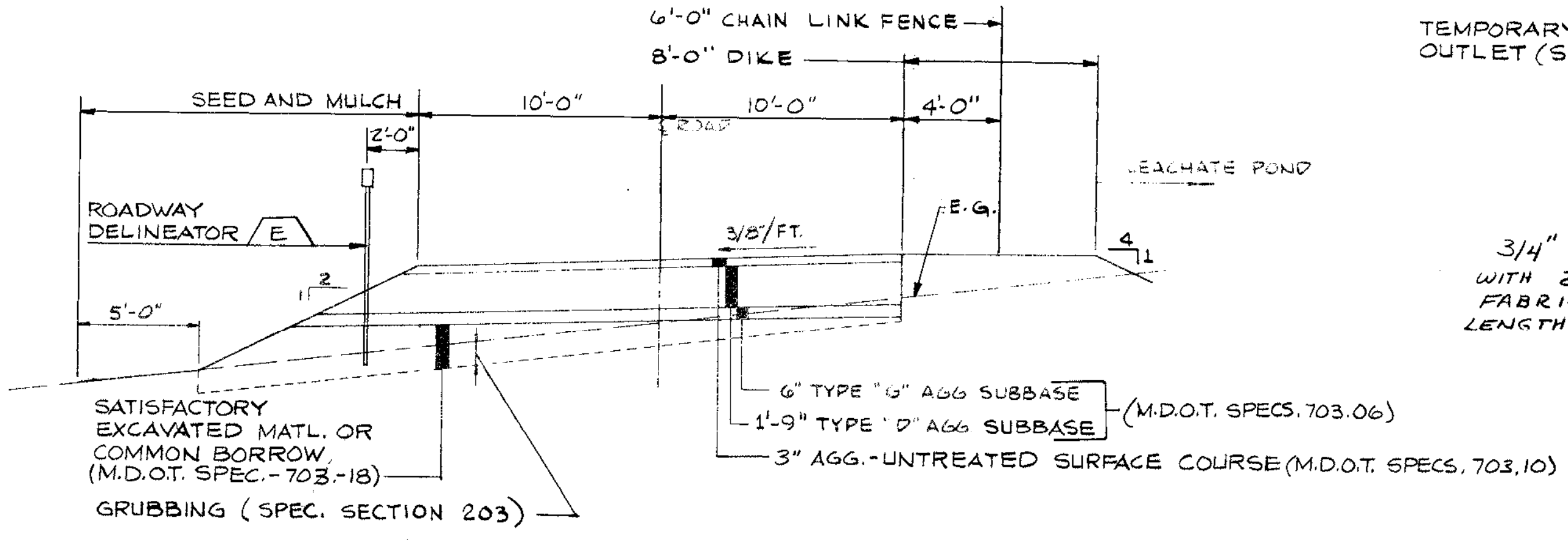
TYPICAL SECTION
LANDFILL ACCESS ROAD
N.T.S.



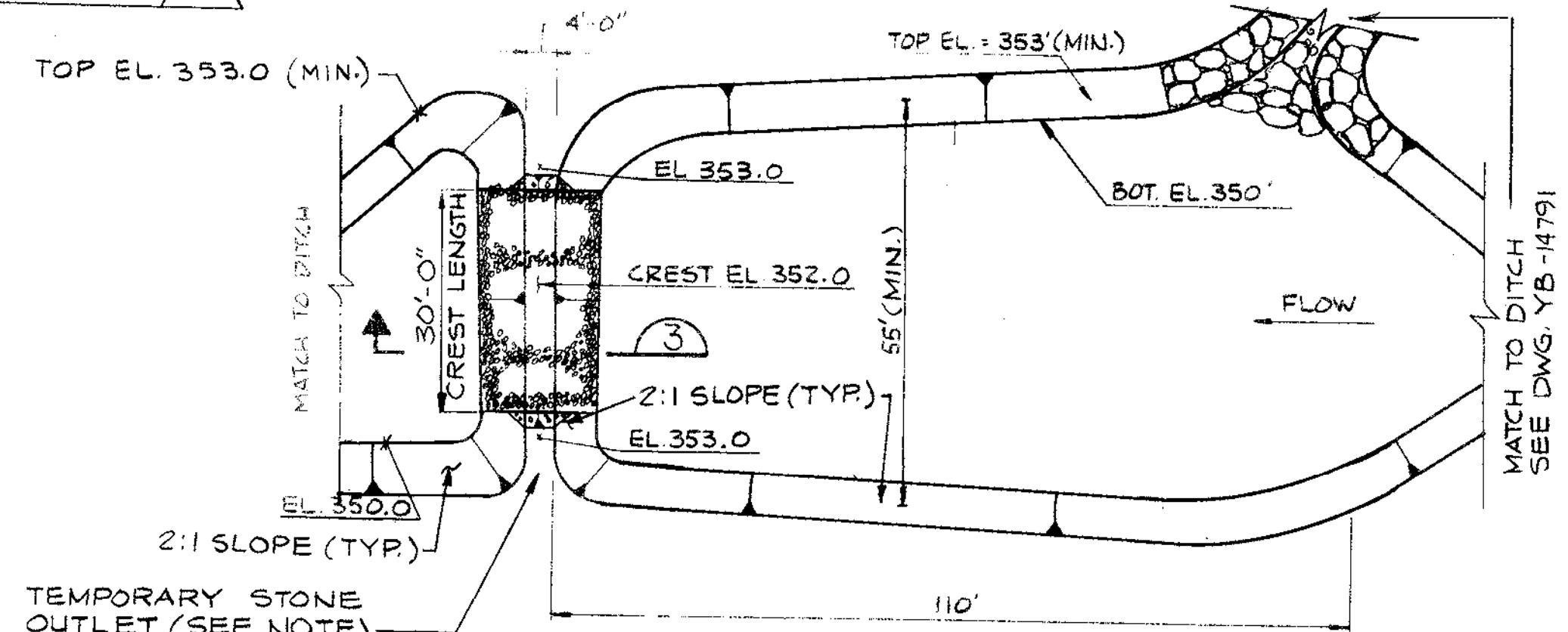
SECTION 2
RIPRAP APRON
N.T.S. YB-14791



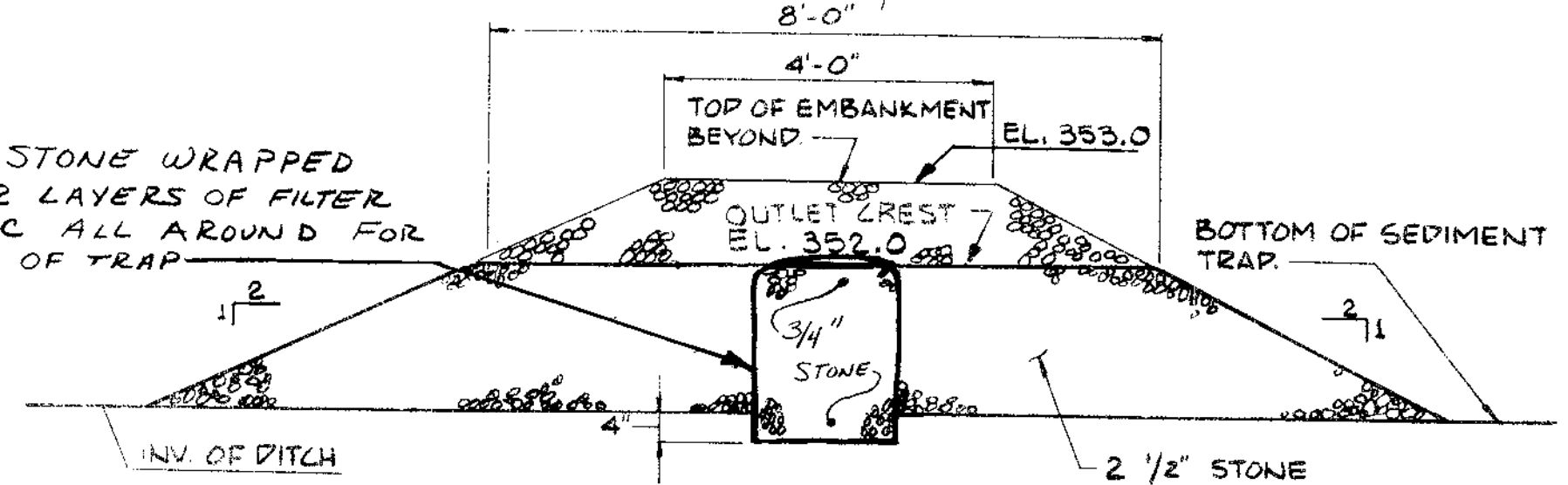
TYPICAL SECTION
DIKE AND TYPE 2 DRAINAGE DITCH
SCALE: 1" = 5'



TYPICAL SECTION
LEACHATE POND ACCESS ROAD
N.T.S.

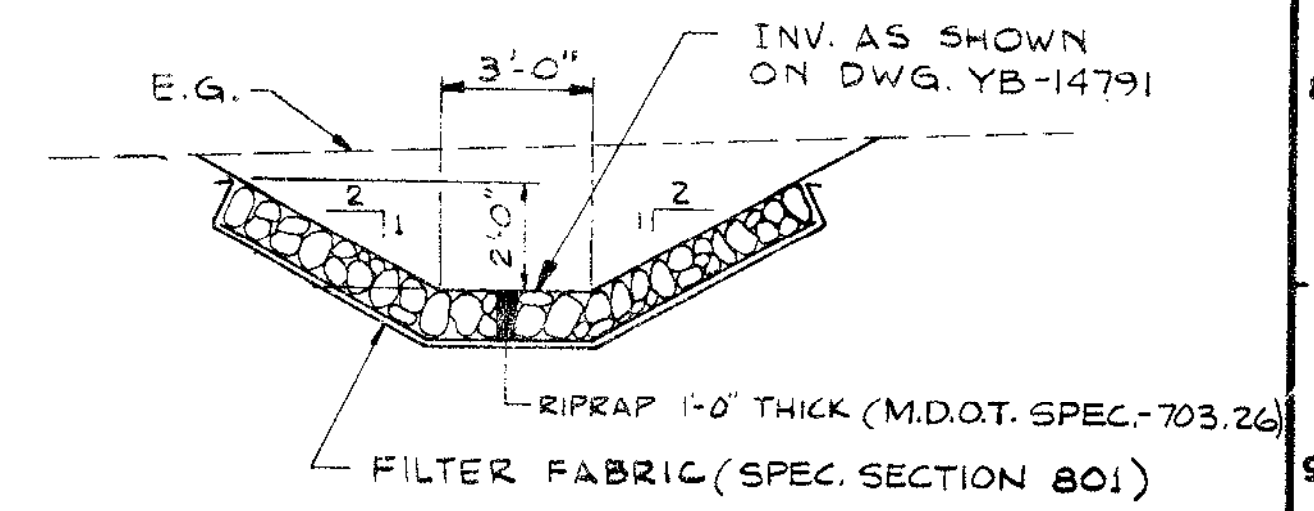


PLAN



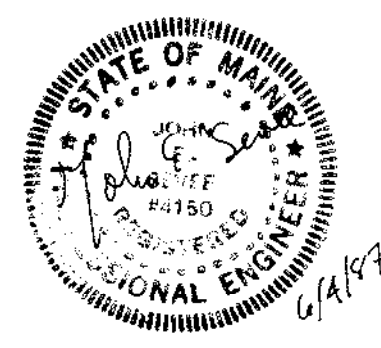
SECTION 3

STONE OUTLET SEDIMENT TRAP
N.T.S. YB-14791



TYPE I DITCH
N.T.S. YB-14791
YB-15711

NOTE: STONE OUTLET TO BECOME PERMANENT FEATURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIPRAP. AREA TO BE SEED AND MULCHED WHEN CONSTRUCTION COMPLETE.



NO.	DATE	REVISION	BY	CHKD.	APPROV.	JOB NO.
C	5/24/87	GENERAL REVISION FOR JOB #94473 CELL 2	WJN	ECJ	WJN	4187-02
V	1/15/81	NOTES & 3/4" STONE AND FILTER FABRIC	WJN	WJN	WJN	4187-02

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO. YB-14791

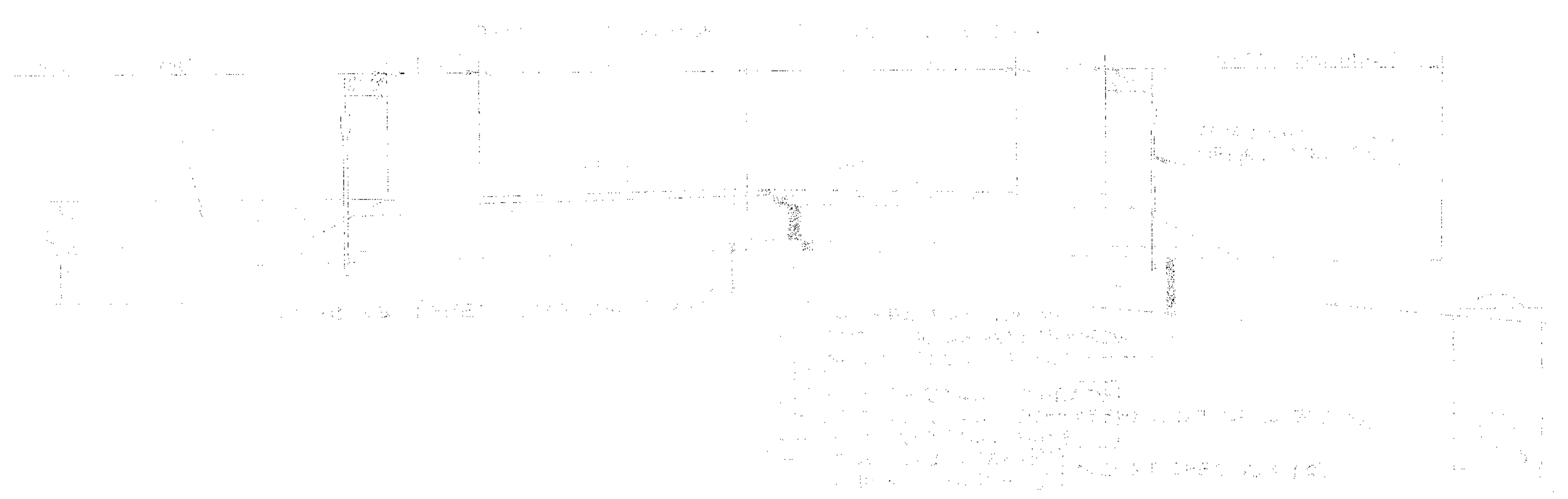
Great Northern Paper
a company of
Great Northern Nekeosa Corporation

ISSUE CODE
P-PRELIM B-BIOS
M-MULTI Q-C-CONST
SCALE NOTED

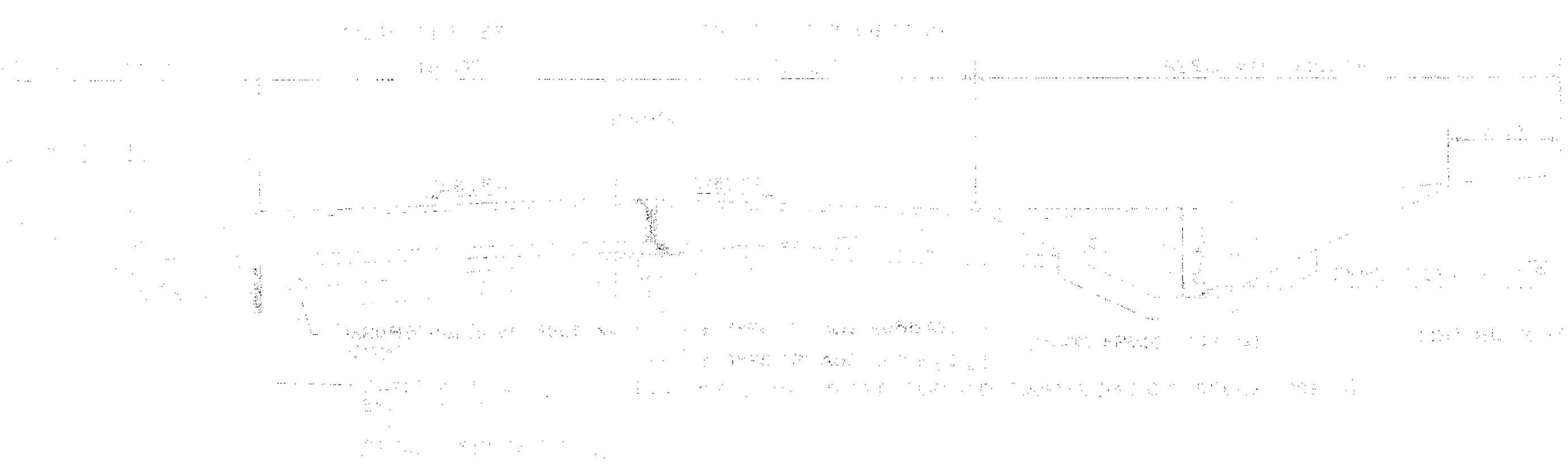
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
ACCESS ROAD
TYPICAL SECTIONS & DETAILS

JOB NO. 2668
ENG. REG. NO. 2-8313
FILE NO. 2-092-7082

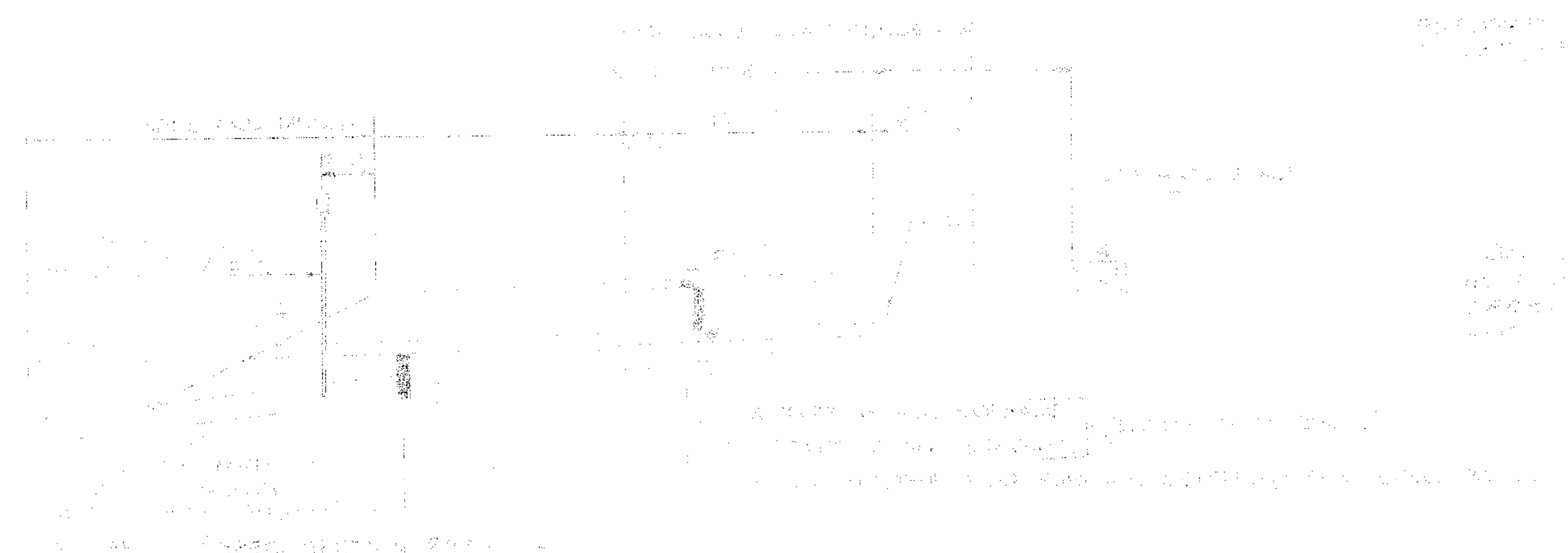
YB-14794-B



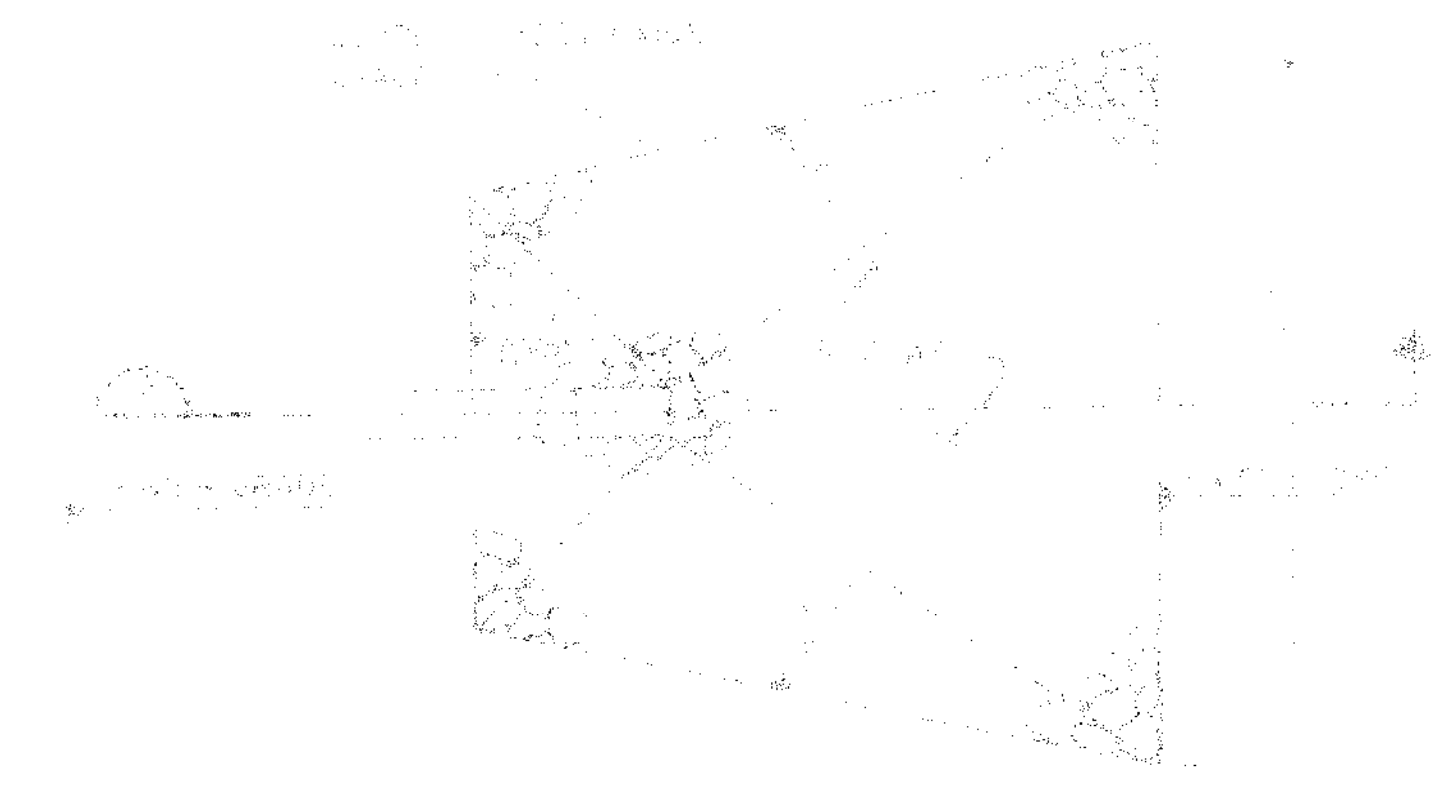
PLAN VIEW OF STRUCTURE



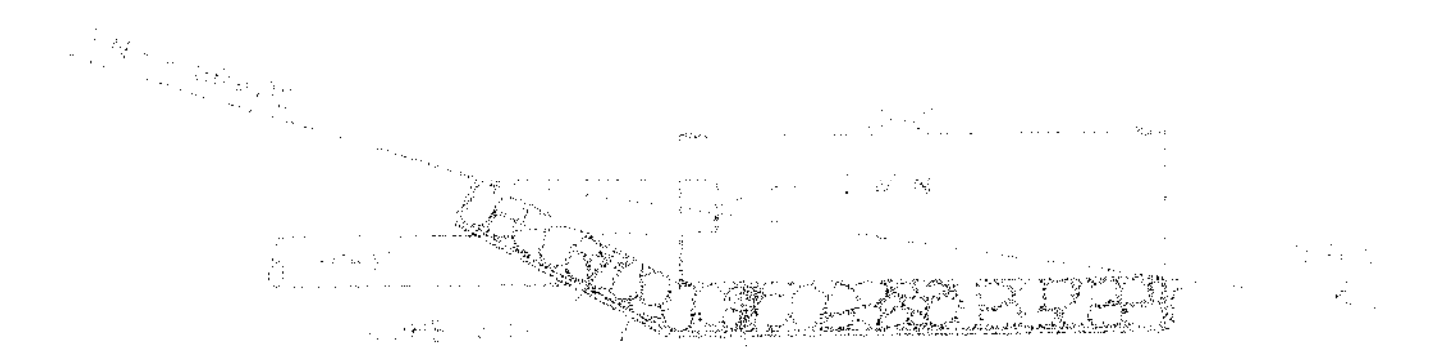
PLAN VIEW OF STRUCTURE



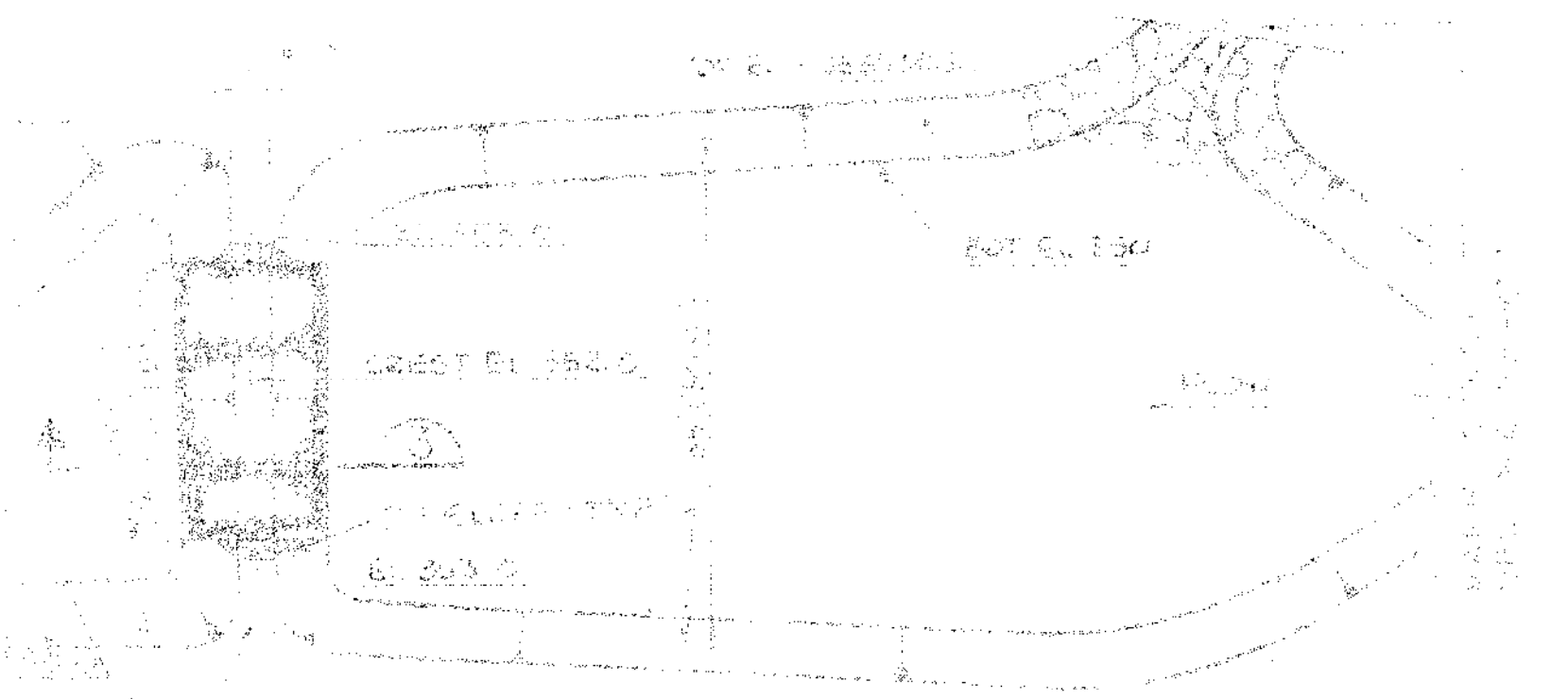
PLAN VIEW OF STRUCTURE



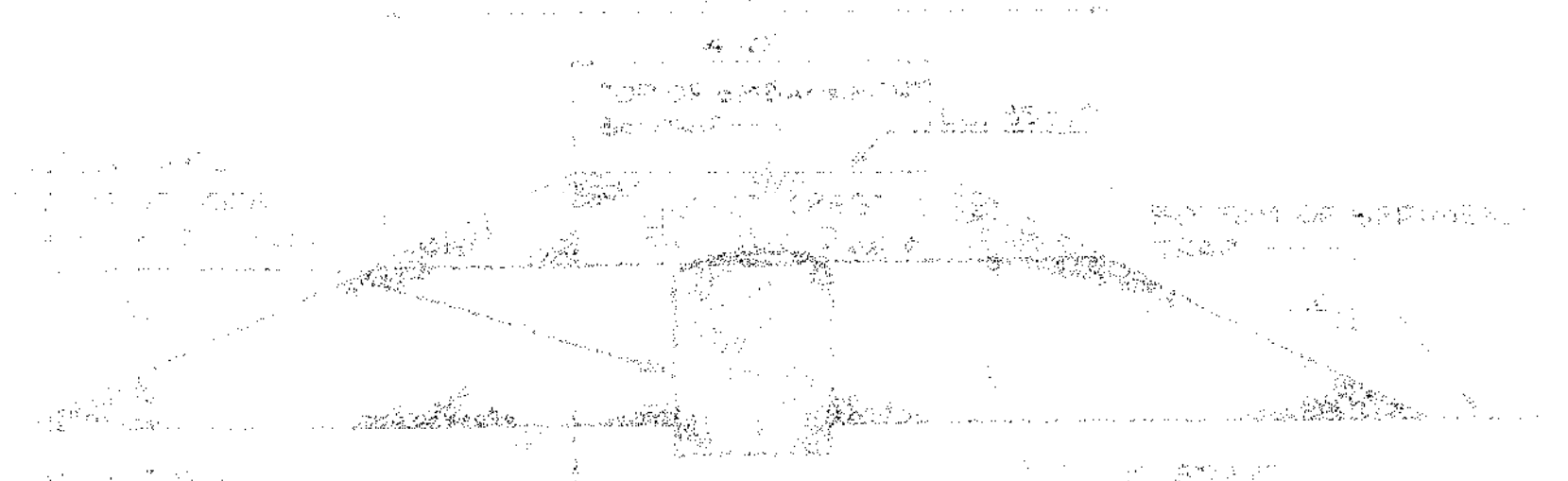
PLAN



CROSS SECTION

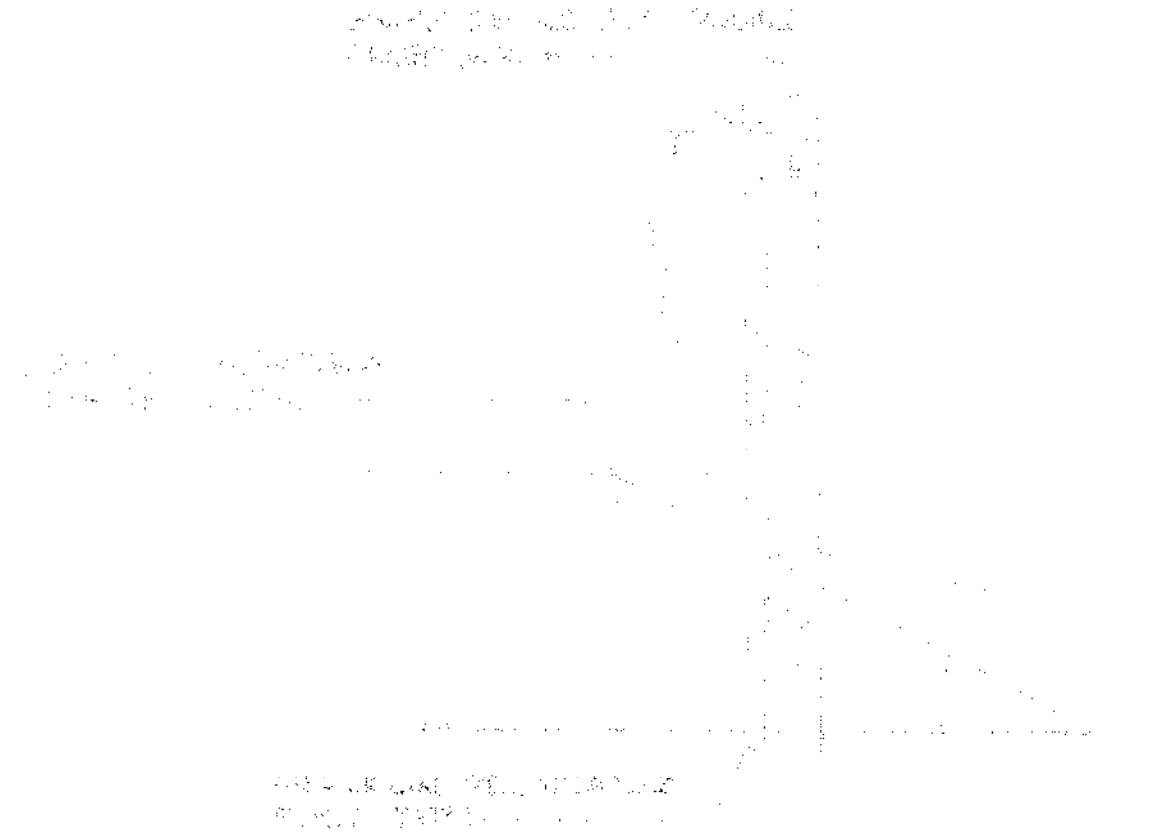


PLAN

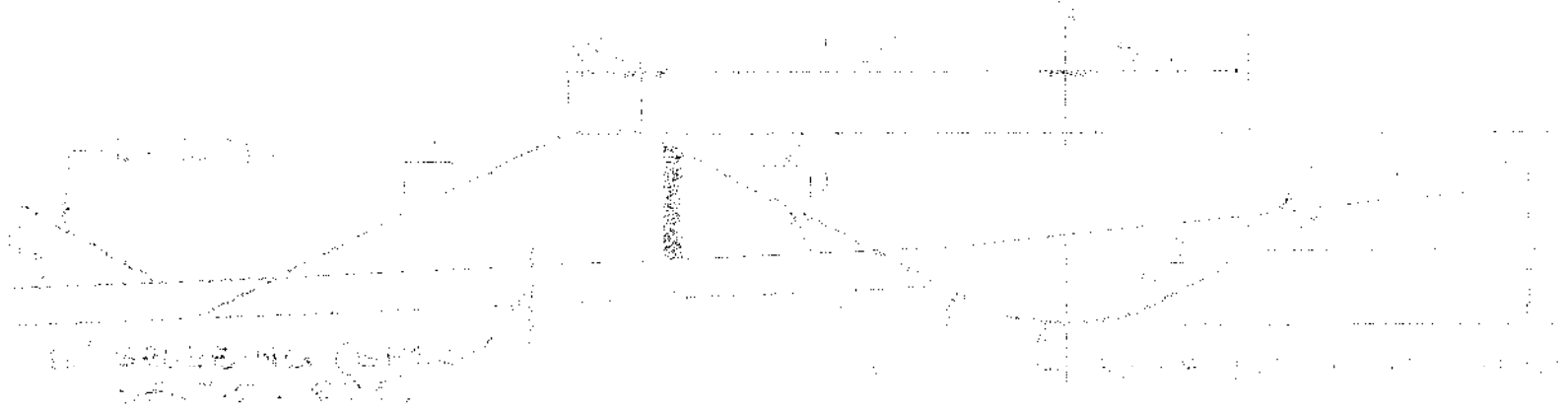


CROSS SECTION

STONE WALL SECTION

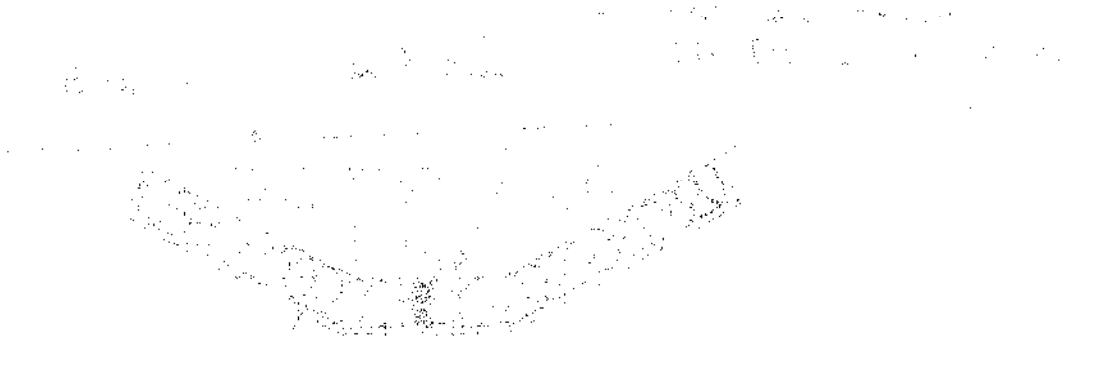


PLAN



CROSS SECTION

TYPICAL SECTION OF TYPE 2 OF FACE WITH



CROSS SECTION

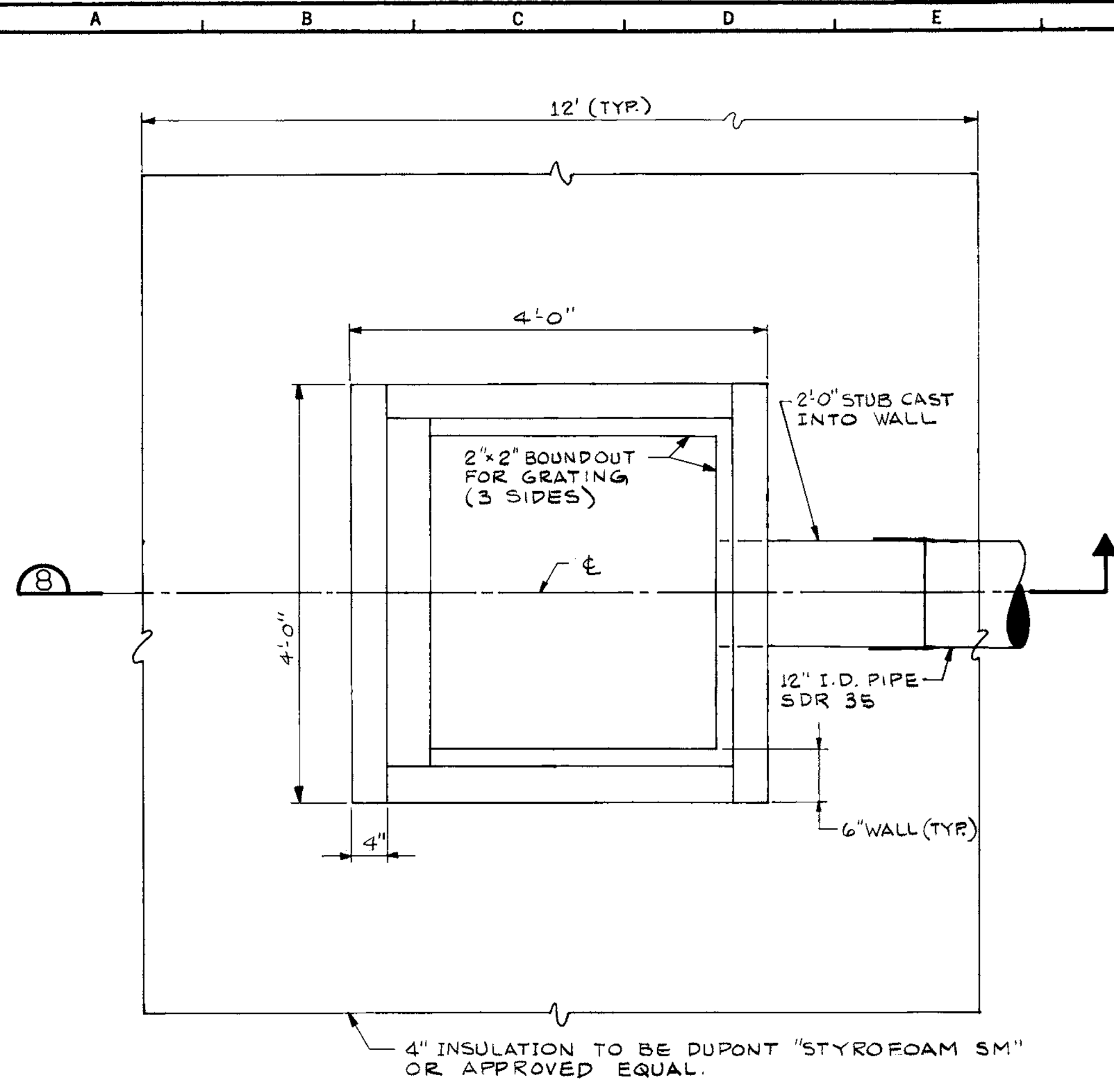
Notes and specifications for the structure, including material requirements and construction details.

Project information and notes, including site details and construction requirements.

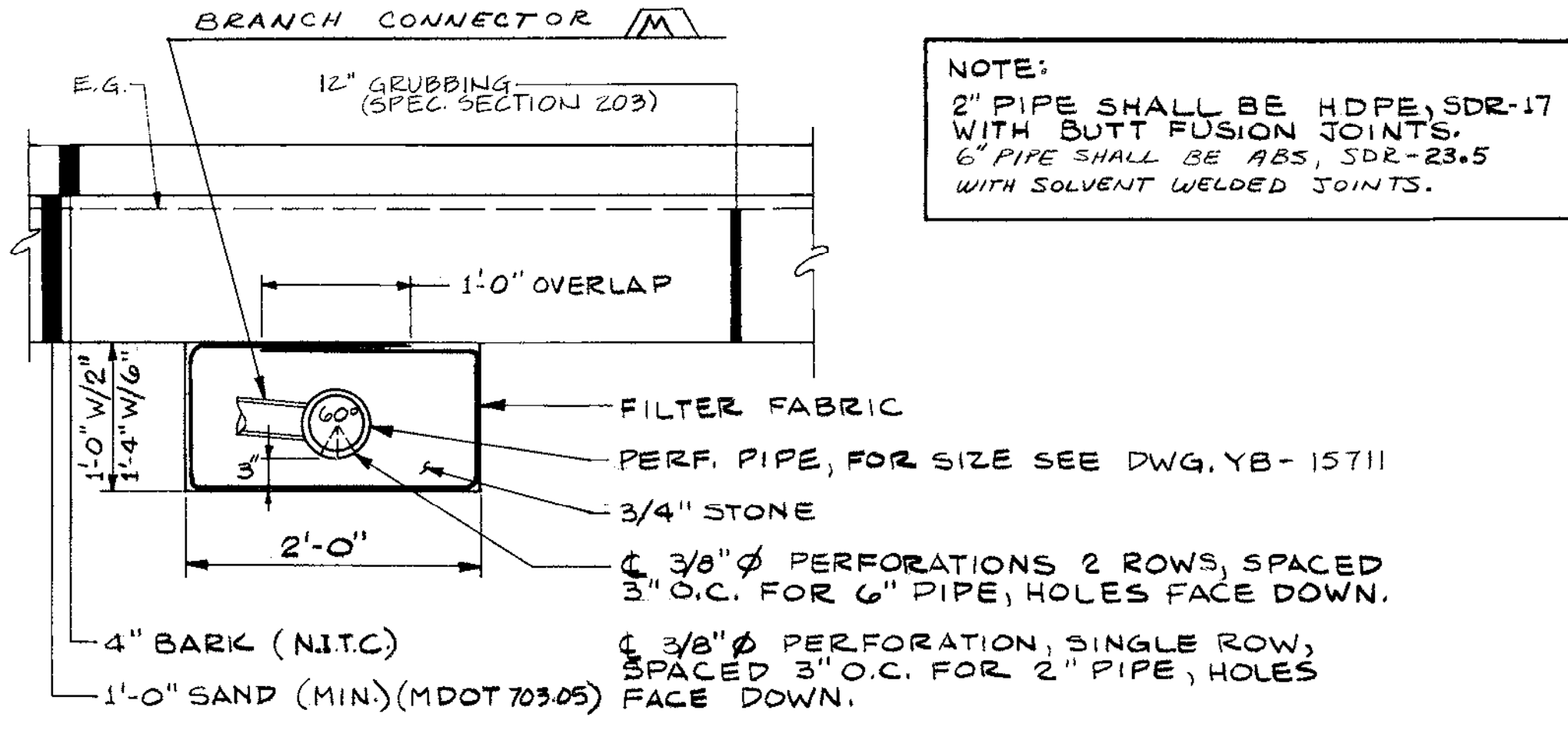
SEVEE & MAHER ENGINEERS, PA
 ARCHITECTS
EO JORDANCO
 CONSULTING ENGINEERS

Great Northern Road
 [Logo]

Contractor information and contact details.

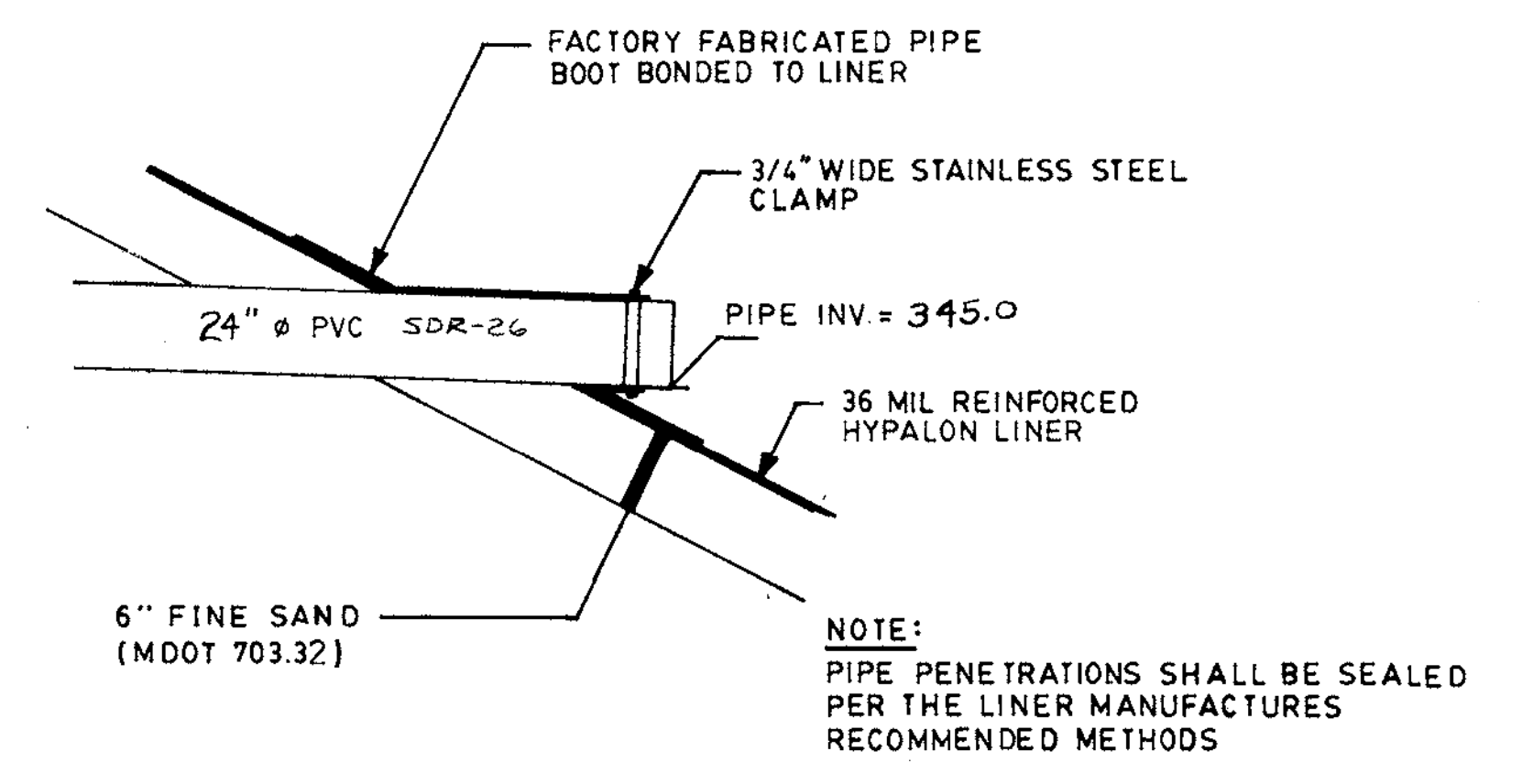


PLAN

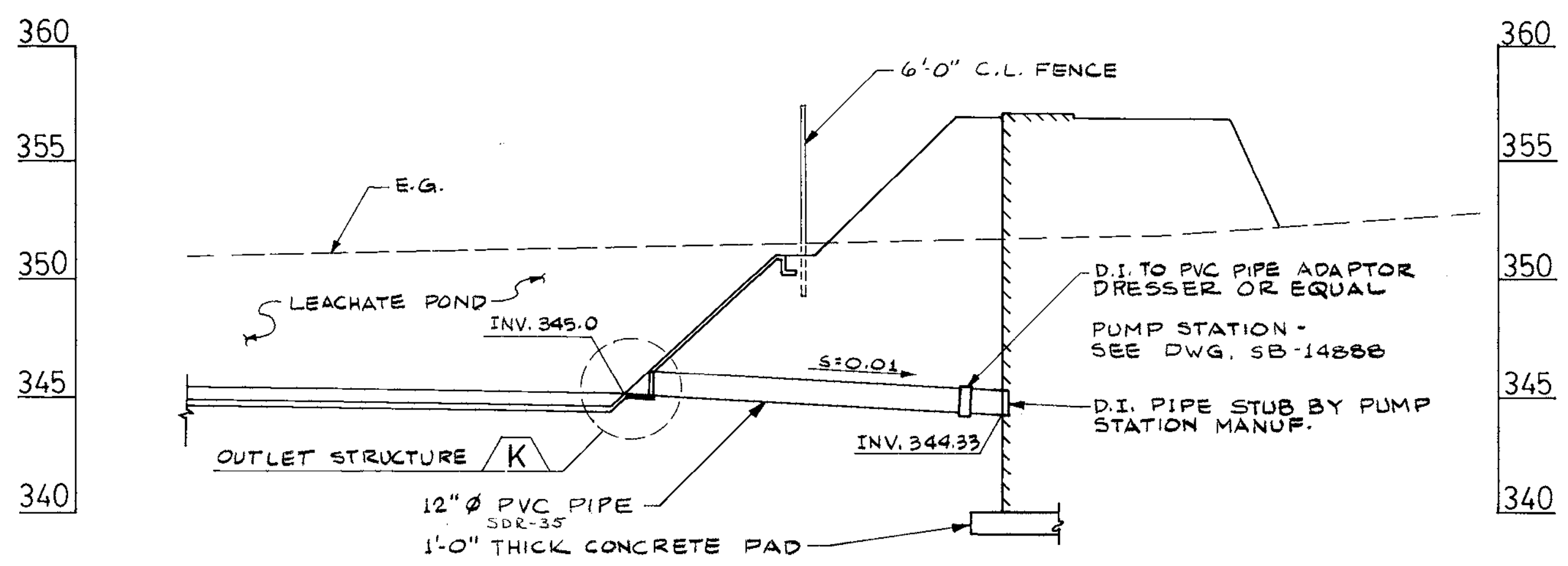


NOTE:
 2" PIPE SHALL BE HDPE, SDR-17 WITH BUTT FUSION JOINTS.
 6" PIPE SHALL BE ABS, SDR-23.5 WITH SOLVENT WELDED JOINTS.

2-IN. 6-IN. LEACHATE COLLECTION PIPES (9)
 SCALE: 1" = 1'-0"
 YB-14791
 YB-15711

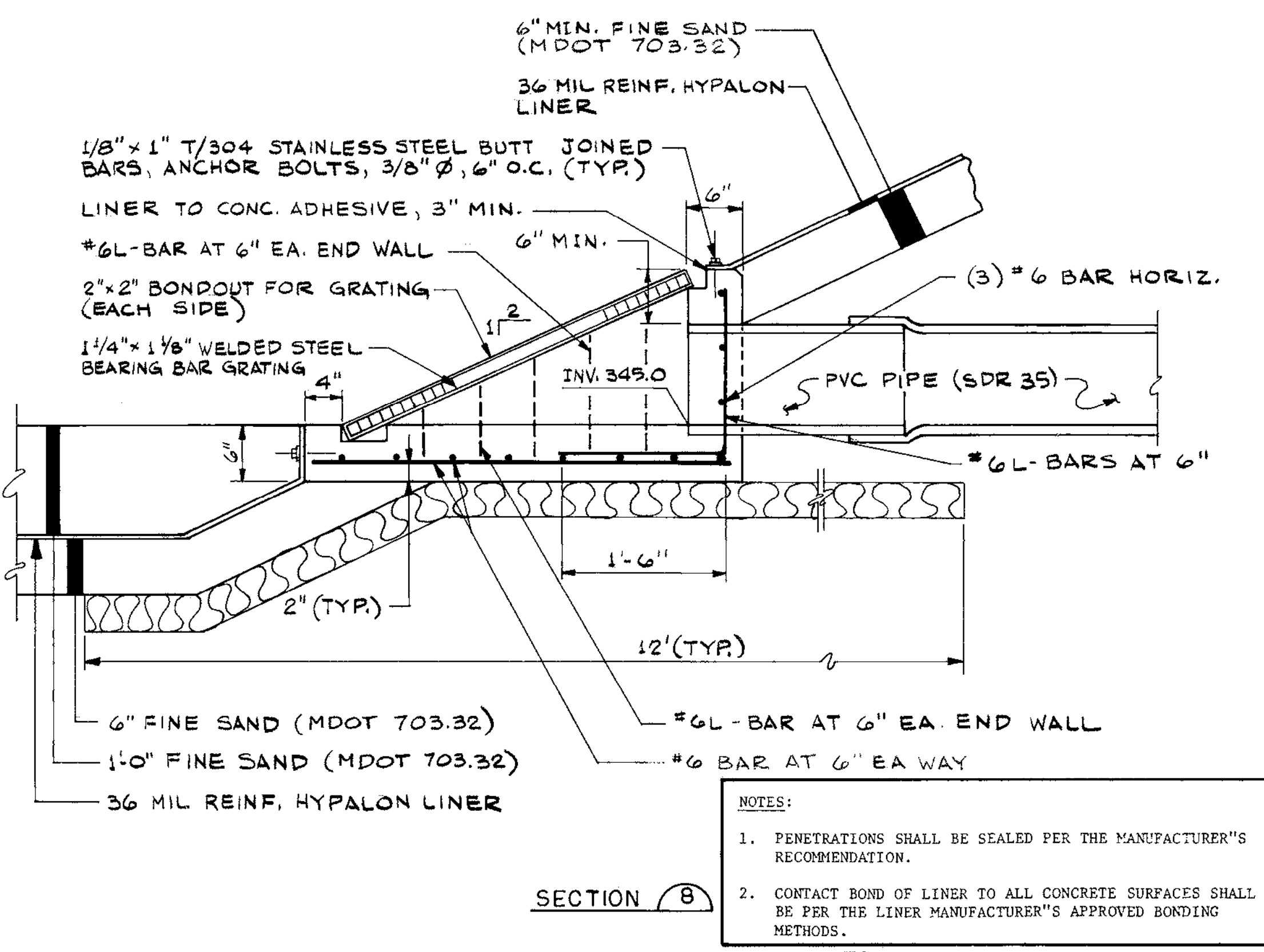


POND INLET AND PIPE BOOT (L)
 N.T.S.
 YB-14791



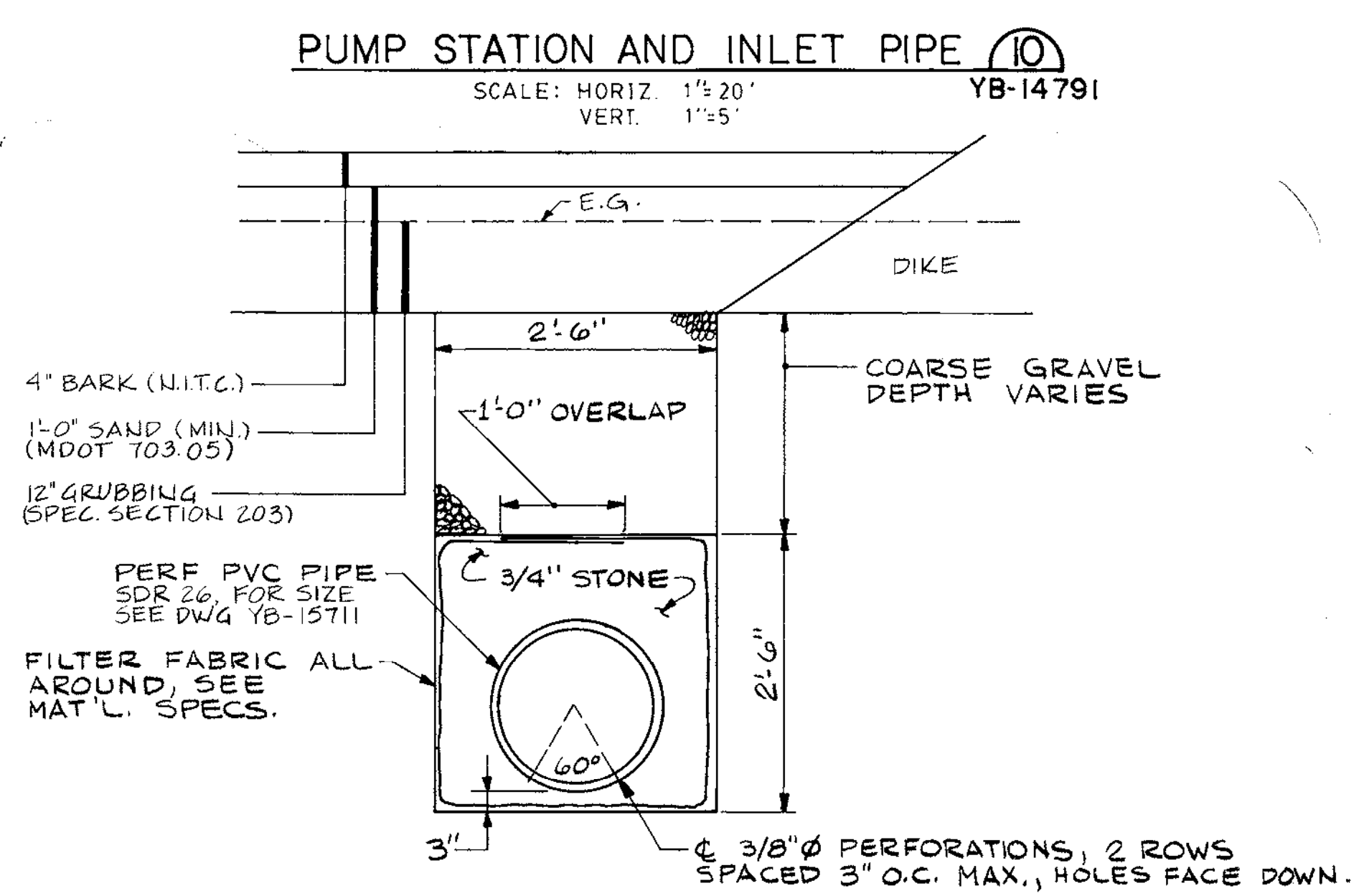
PUMP STATION AND INLET PIPE (10)
 SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5"
 YB-14791

NOTES:
 2" PIPE HDPE SDR-17 W/BUTT FUSION JOINTS
 4" PIPE ABS SDR-23.5 W/SOLVENT JOINTS
 6" PIPE ABS SDR-23.5 W/SOLVENT JOINTS
 12" PIPE PVC SDR-35
 18" PIPE PVC SDR-26
 24" PIPE PVC SDR-26
 GATE VALVES - CLOW F506S MECH. JOINT, NO RISING STEM FOR 4" & 24" PIPE OR EQUAL
 INDICATOR POST - CLOW F5760 OR EQUAL
 12" PIPE PVC SDR-26

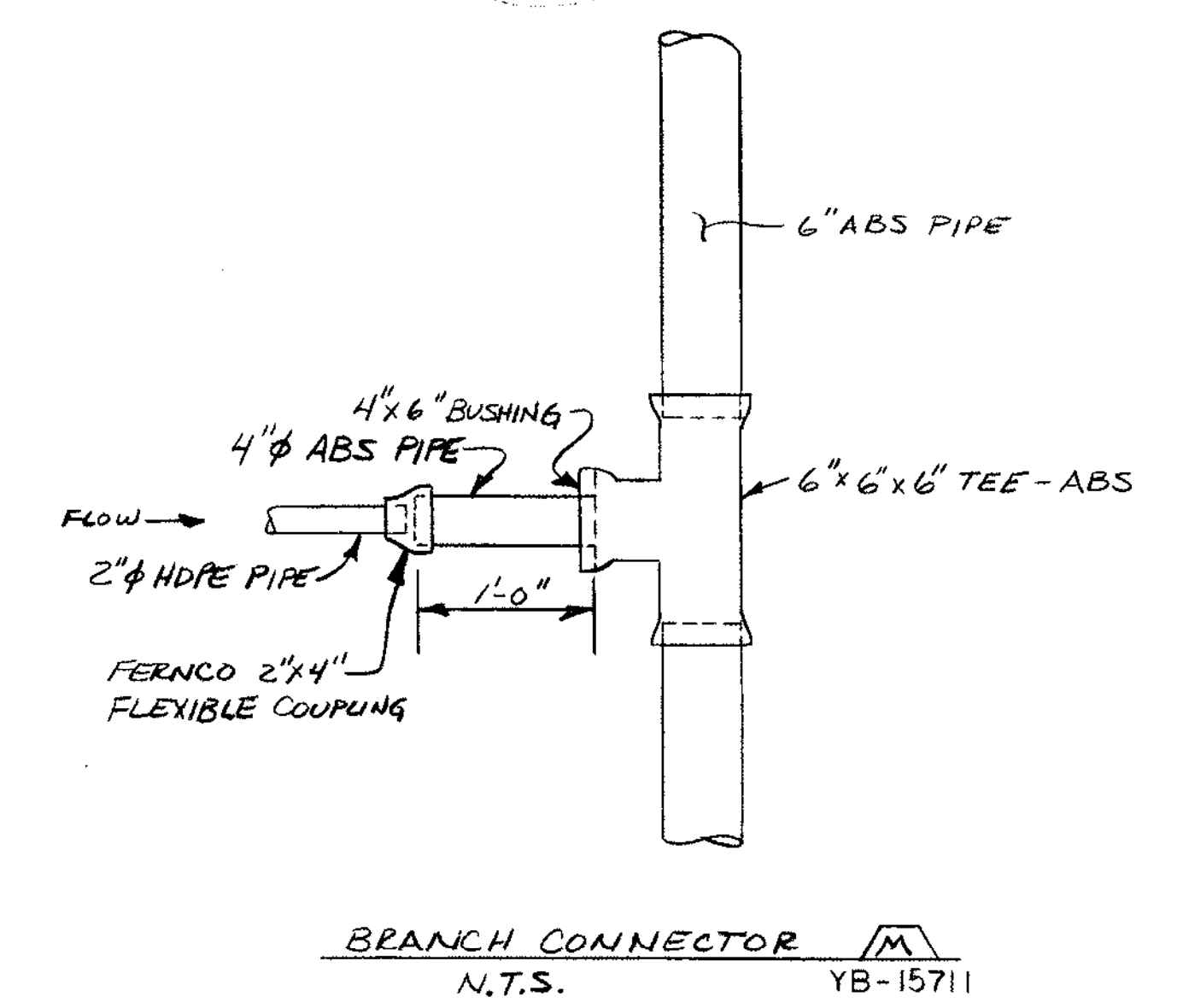


OUTLET STRUCTURE (TYP) (K)
 SCALE: 1" = 1'-0"
 YB-14791

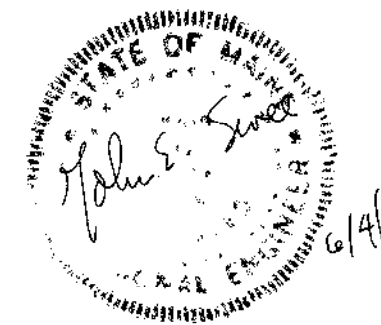
NOTES:
 1. PENETRATIONS SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATION.
 2. CONTACT BOND OF LINER TO ALL CONCRETE SURFACES SHALL BE PER THE LINER MANUFACTURER'S APPROVED BONDING METHODS.



PERF LEACHATE COLLECTION MAIN (11)
 YB-14791
 YB-15711



BRANCH CONNECTOR (M)
 N.T.S.
 YB-15711



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		C	A	5/26/87	GENERAL REVISION FOR JOB # 94473 CELL 2	JHC	ECJ	WAN	94473

SEVEE & MAHER ENGINEERS, PA
 WESTBROOK, MAINE
E.C. JORDAN CO.
 CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

Great Northern Paper
 a company of
 Great Northern Nekeosa Corporation

ISSUE CODE
 P - PRELIM B - BIDS
 M - MTL. D.C. - CONST
 SCALE NOTED

CENTRAL ENGINEERING DEPARTMENT
 EAST MILLINOCKET MILL
 DOLBY 3 LANDFILL
 SITE DEVELOPMENT
 DETAILS

JOB NO. 2668
 ENG. REQ. NO. 2-8313
 FILE NO. 2-0927082

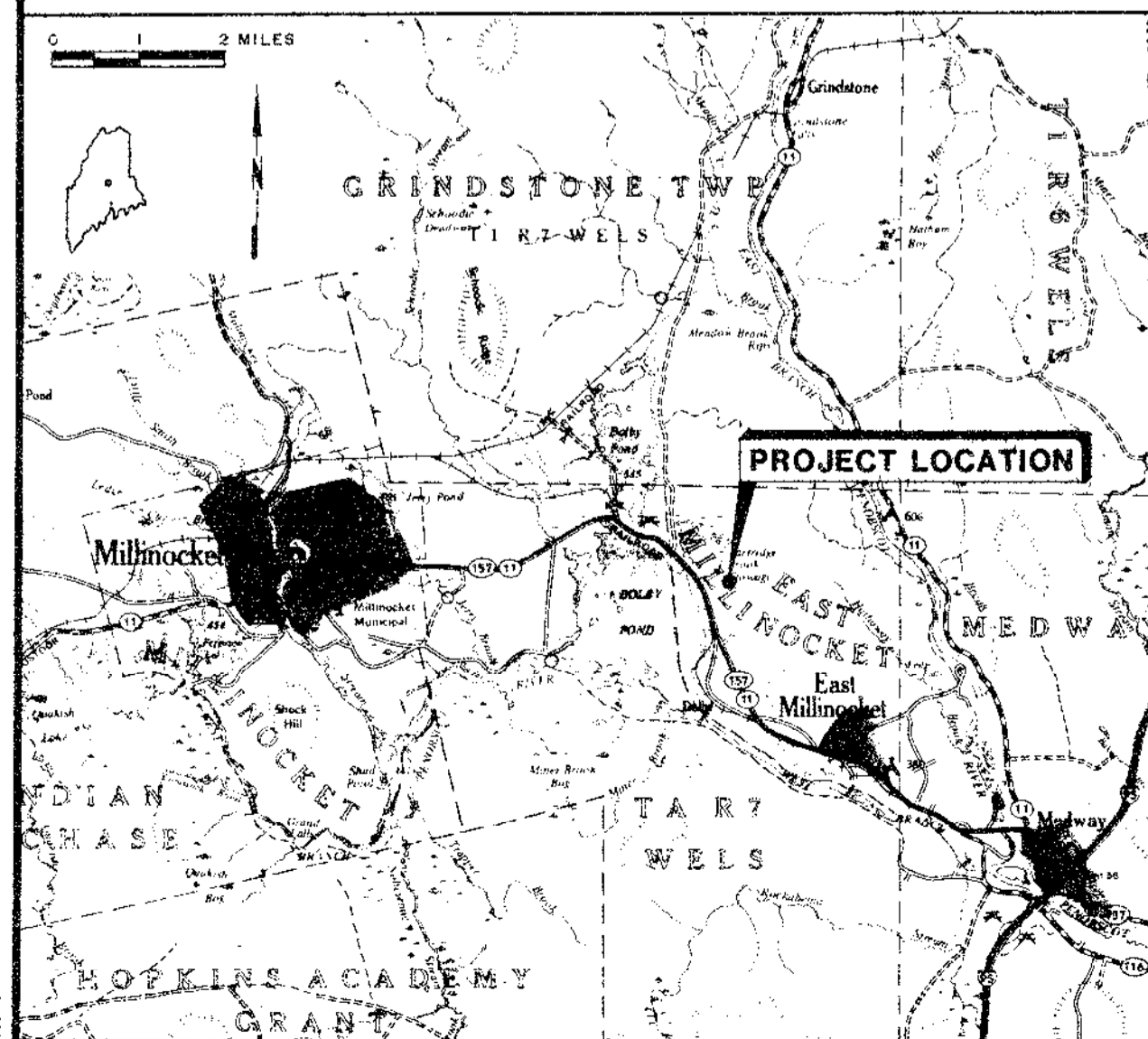
YB-14796-A

GREAT NORTHERN PAPER CO. MILLINOCKET, MAINE

DOLBY 3 LANDFILL CELL 3 CONSTRUCTION

RECORD DRAWINGS

	<u>TITLE</u>	<u>DWG. NO.</u>
COVER SHEET		YB-15911
DOLBY 3 LANDFILL	SYMBOLS & ABBREVIATIONS	YB-15912
DOLBY 3 LANDFILL	SITE LOCATION PLAN	YB-15913
DOLBY 3 LANDFILL	SITE DEVELOPMENT PLAN	YB-15914
DOLBY 3 LANDFILL	SECTIONS & DETAILS	YB-15915



SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

1988



Great Northern Paper
a company of
Great Northern Nekeosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY 3 LANDFILL
CELLS 3A AND 3B
COVER SHEET

JOB NO. _____
ENG. REG. NO. 2-8627
FILE NO. 2-092-4703, 7082

YB-15911

SYMBOLS

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
	NORTH ARROW (TRUE)		NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)
	CONTOUR LINES		SPOT ELEVATION (GRADE)		STONE WALL
	EXISTING GROUND (PROFILES & SECTIONS)		ROCK OUTCROP OR LEDGE		DRAINAGE COURSES W/DIRECTION & DITCH
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT		FENCE LINE (WOOD)		FENCE LINE (WIRE)
	CONSTRUCTION BASELINE		RETAINING WALL (TYPE)		EDGE OF WATER
	PROPERTY OR DEED LINE (NOT SURVEYED)		GUARD RAIL		WATER ELEVATION (GROUND OR SURFACE)
	PROPERTY LINE W/BEARING & DISTANCE		BUILDING & STRUCTURES		ROCK OUTCROP OR LEDGE
	ROADS, EASEMENTS OR RIGHT OF WAY LINE		STEPS W/TYPE (WOOD/CONCRETE)		FENCE LINE (WOOD)
	BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		SLOPE RATIO (HORIZONTAL TO VERTICAL)		FENCE LINE (WIRE)
	SURVEY MONUMENT		SLOPES (W/SLOPE RATIO)		RETAINING WALL (TYPE)
	SURVEY IRON (FOUND)		EDGE OF TRAVELED WAY (TYPE)		GUARD RAIL
	DRILL HOLE, PK OR STAKE		CUT OR FILL LINE		BUILDING & STRUCTURES
	WOODS OR BRUSH LINE		CONSTRUCTION LIMIT LINE		STEPS W/TYPE (WOOD/CONCRETE)
	INDIVIDUAL TREE (DECIDUOUS)		BITUMINOUS PAVEMENT		SLOPE RATIO (HORIZONTAL TO VERTICAL)
	INDIVIDUAL TREE (CONIFEROUS)		GRAVEL ROAD		SLOPES (W/SLOPE RATIO)
	TREE, TO BE REMOVED		CONCRETE		EDGE OF TRAVELED WAY (TYPE)
	MARSH AREA		TEST BORING, MONITORING WELL OR PROBE & NUMBER		CUT OR FILL LINE

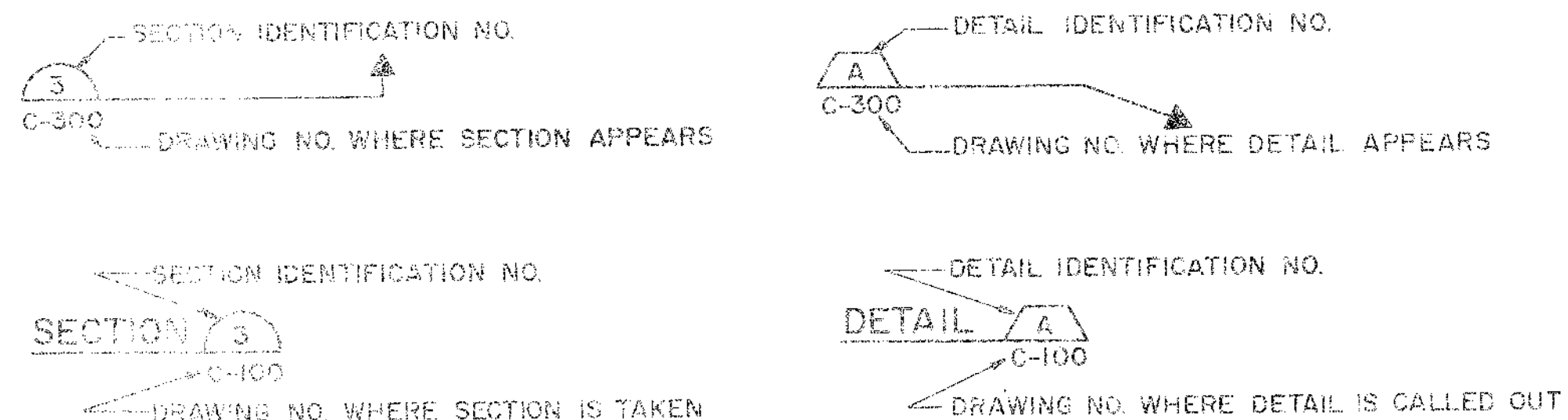
PIPE SCHEDULE

2" HDPE SHALL BE SDR 17 WITH BUTT FUSED JOINTS.
 6" PVC SHALL BE SDR 21 WITH PUSH-ON JOINTS.
 12" PVC SHALL BE SDR 26 WITH PUSH-ON JOINTS.

ABBREVIATIONS

A.C.C.H.P. ASPHALT COATED C.H.P.	CONC CONCRETE	FPS FEET PER SECOND	NO NUMBER
A.C.F. ASBESTOS CEMENT FIBRE	CONST CONSTRUCTION	FEET FEET	ON CENTER ON CENTER
AC AGGREGATE	CONTR CONTRACTOR	FOOTING FOOTING	OUTSIDE DIAMETER OUTSIDE DIAMETER
ALUM ALUMINUM	CENR CENTER	GAGE GAGE	POINT OF CURVE POINT OF CURVE
APPD APPROVED	CY CUBIC YARD	GAL GALLON	POINT OF INTERSECTION POINT OF INTERSECTION
APPROX APPROXIMATE	D DEGREE OF CURVE (ARC DEP.)	GALV GALVANIZED	P.T. POINT OF TANGENT
ASB ASBESTOS	DBL DOUBLE	GPD GALLONS PER DAY	PERF PERFORATED
ASPR ASPHALT	DEG OR DEGREE	GPL GALLONS PER MINUTE	PFS POUNDS PER SQUARE INCH
A72 C.H.P. ALUMINUM TYPE 2 C.H.P.	DEPT DEPARTMENT	HDP HIGH DENSITY POLYETHYLENE	PVC POLYVINYL CHLORIDE
AUTC AUTOMATIC	DI DIA OR DIAMETER	HP HOLESPONER	PVHT PAVEMENT
AVE AUXILIARY	DIM DIMENSION	HYD HYDRANT	QTY QUANTITY
AVR AVERAGE	DIST DISTANCE	I.D. INSIDE DIAMETER	R.O.R. RADIUS OF HAY
AZ AZIMUTH	DR DOWN	IN INCHES	RAV RADIUS
B.C.C.H.P. BITUMINOUS COATED C.H.P.	DR DRAIN	INVT INVERT	RSQD ROUNDED
B.M. BENCH MARK	DR DRAINING	INV. EL. INVERT ELEVATION	RT RIGHT
BIT BITUMINOUS	EA EACH	LB POUND	ROVR ROVER
BNG BUILDING	EG EG	LIB. FT. LINEAR FEET	S SLOPE
DOT DOT	EG EXISTING GROUND	LOC LOCATION	SCH SCHEDULES
DR DRAIN	ELEC ELECTRIC	LT LEFT	SF SQUARE FEET
C.B. CATCH BASIN	ELB ELBOW	N.H. NAIL HOLE	SHT SHEET
C.C. CORRUGATED METAL PIPE	EQ EQUIPMENT	M.H. MECHANICAL JOINT	STA STATION
C.C. CLEAN OUT	EST ESTIMATED	NAT NATURAL	SY SQUARE YARD
CEN. LIN. CEMENT LINE	EXP EXPANSE	NAV NAVIGATOR	TAN TANGENT
CHR CENTRAL ANGLE OF CURVE	EXS EXISTING	MAN MANUFACTURE	TCH TANGENT TO 90° ORHIC HEAD
CF CONIC FEET	F.G. FINISH GRADE	MINS MINUTE	TEMP TEMPORARY
CFS CUBIC FEET PER SECOND	FIBR FIBERGLASS	MISC MISCELLANEOUS	TOP TOP
CI CAST IRON	FO FOUNDATION	MON MONUMENT	TYP TYPICAL
CL CLASS	FLEX FLEXIBLE	MS IN THIS CONTRACT	TOL TOLLS
	FLG FLANGE	NOT TO SCALE	TRF TRAFFIC
	FLR FLOOR	NOV OR FORMERLY	TRF TRAFFIC

VIEW MARKERS & IDENTIFICATION



SEVEE & MAHER ENGINEERS, INC.
 WESTBROOK, MAINE

JOB NO. 8804

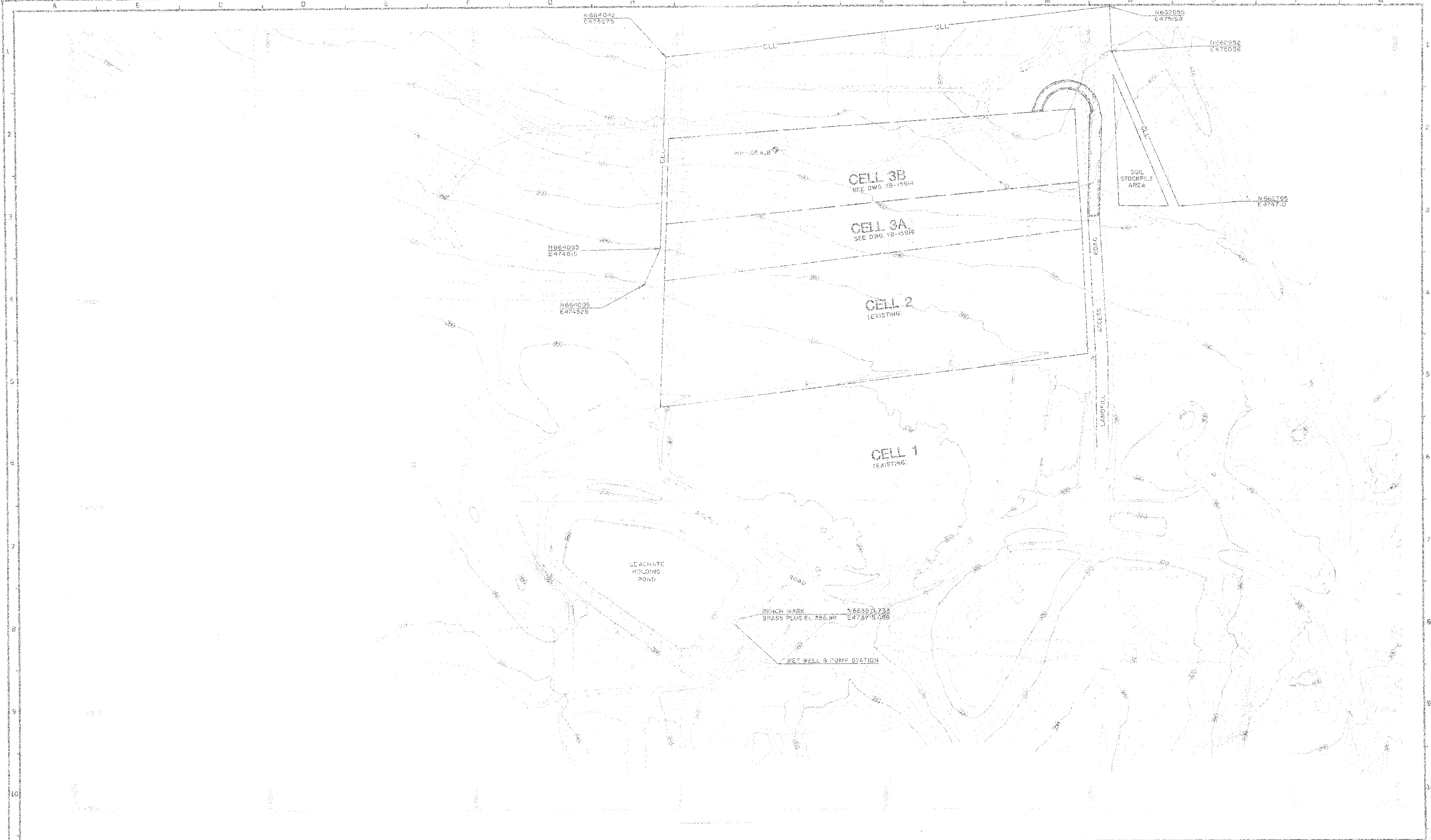
Great Northern Paper
 a company of
 Great Northern Nekeosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY 3 LANDFILL
 CELLS 3A AND 3B
 SYMBOLS & ABBREVIATIONS

JOB NO. 2-8627
 ENG. REG. NO. 2-8627
 FILE NO. 2-092-4703,7082

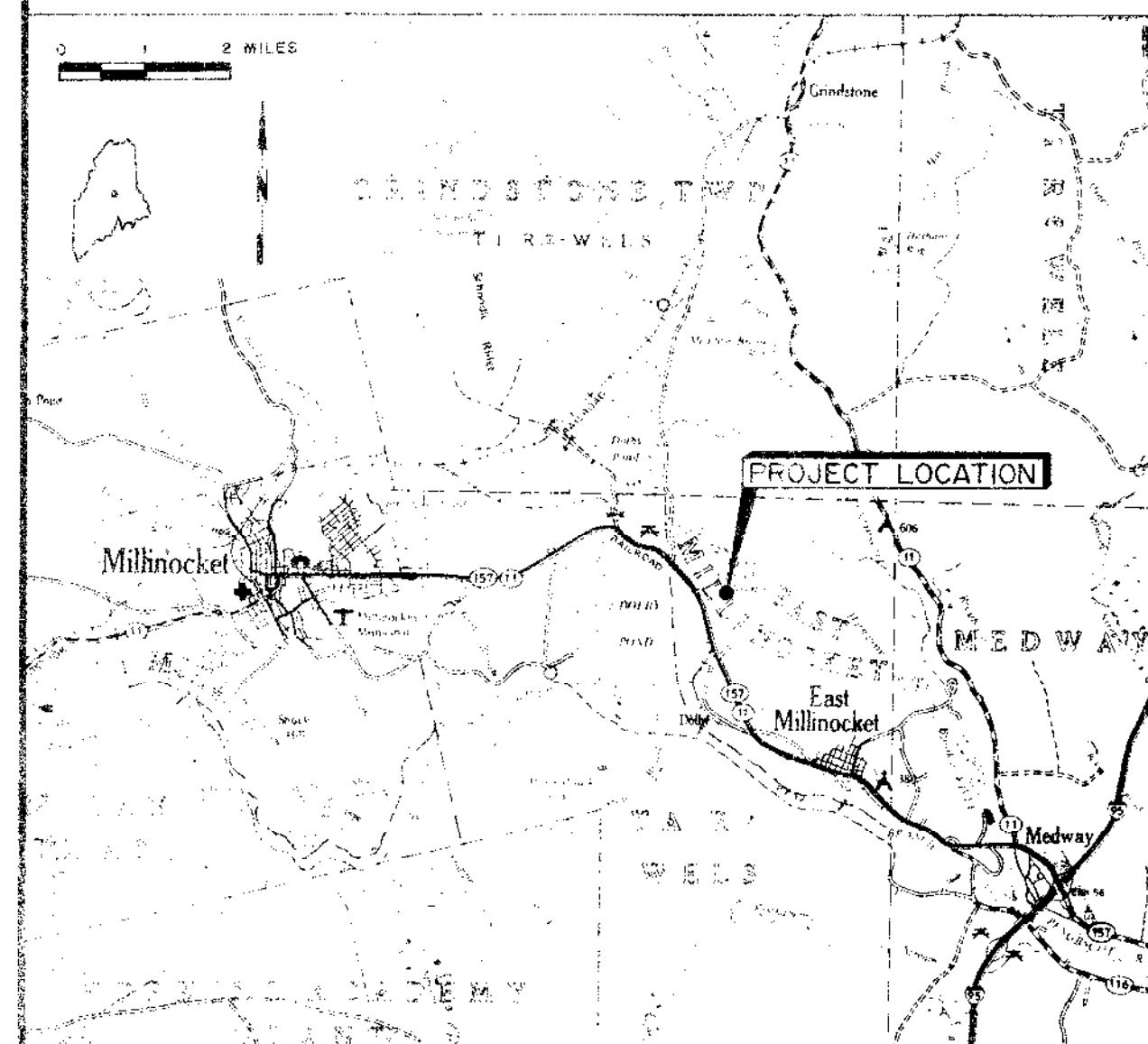
YB-15912



YB-15293 SHEET 1 of 2	DOLBY III LANDFILL AREA TOPOGRAPHIC SURVEY AND DIGITIZATION AS OF DECEMBER 5, 1985												SEVEE & MAHER ENGINEERS, INC. WESTBROOK, MAINE JOB NO. 8804		DATE: 9/88 DRAWN BY: J. Cole CHECKED BY: J. Cole SCALE: 1" = 100' ISSUE CODE: M - PRELIM B - BIDD M - M.C. T.D. C - COMPLY		CENTRAL ENGINEERING DEPARTMENT EAST MILLINOCKET MILL DOLBY III LANDFILL CELLS 3A AND 3B SITE LOCATION PLAN JOB NO. _____ ENG. REG. NO. 2-5527 FILE NO. 2-332-0705, 7082 YB-15913			
DRAWING NO.	REFERENCE DRAWING TITLE		CODE	NO.	DATE	REVISION	BY	CHKD	DATE	JOB NO.										


GREAT NORTHERN PAPER CO. MILLINOCKET, MAINE

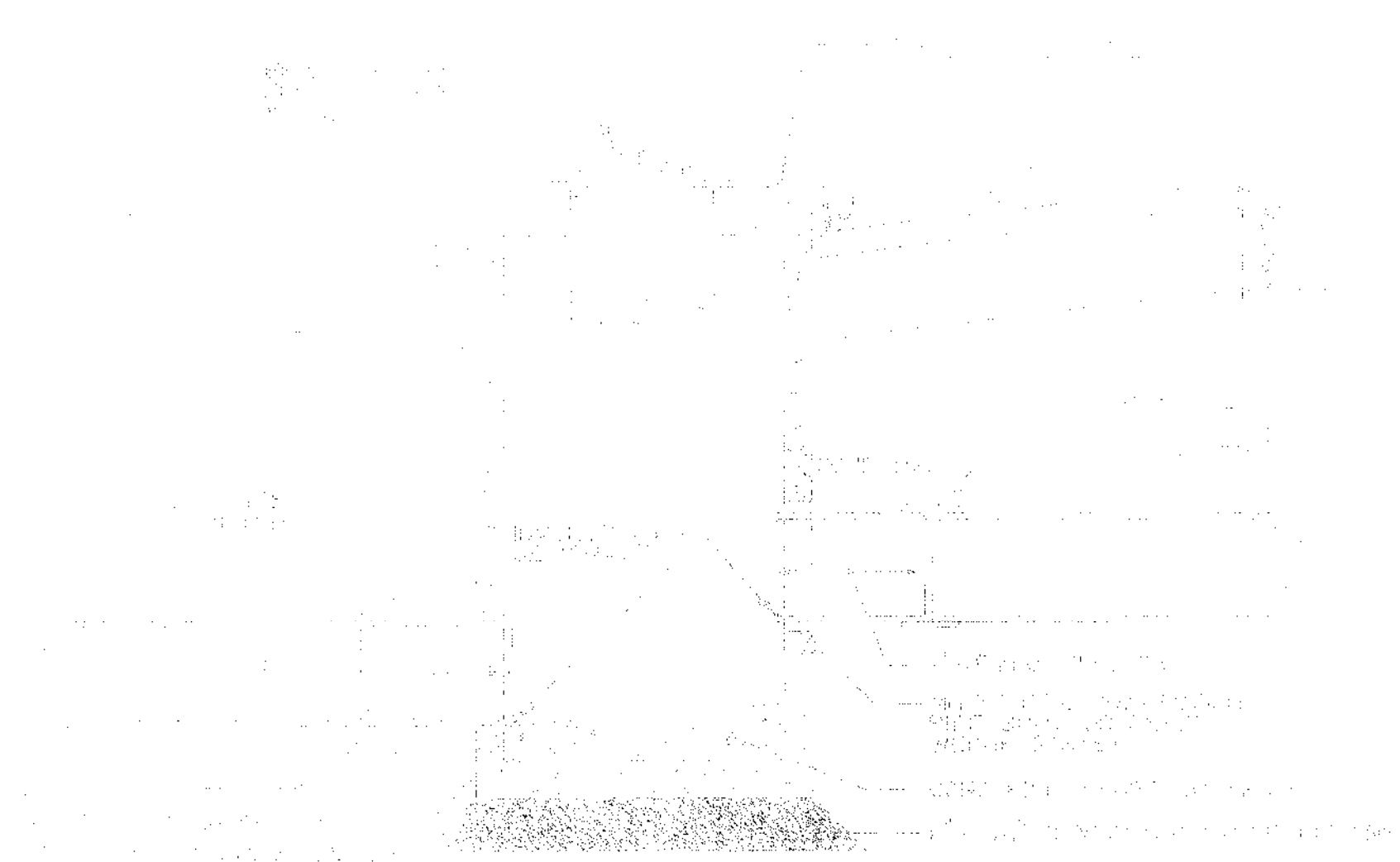
DOLBY III LANDFILL CELL 4 CONSTRUCTION



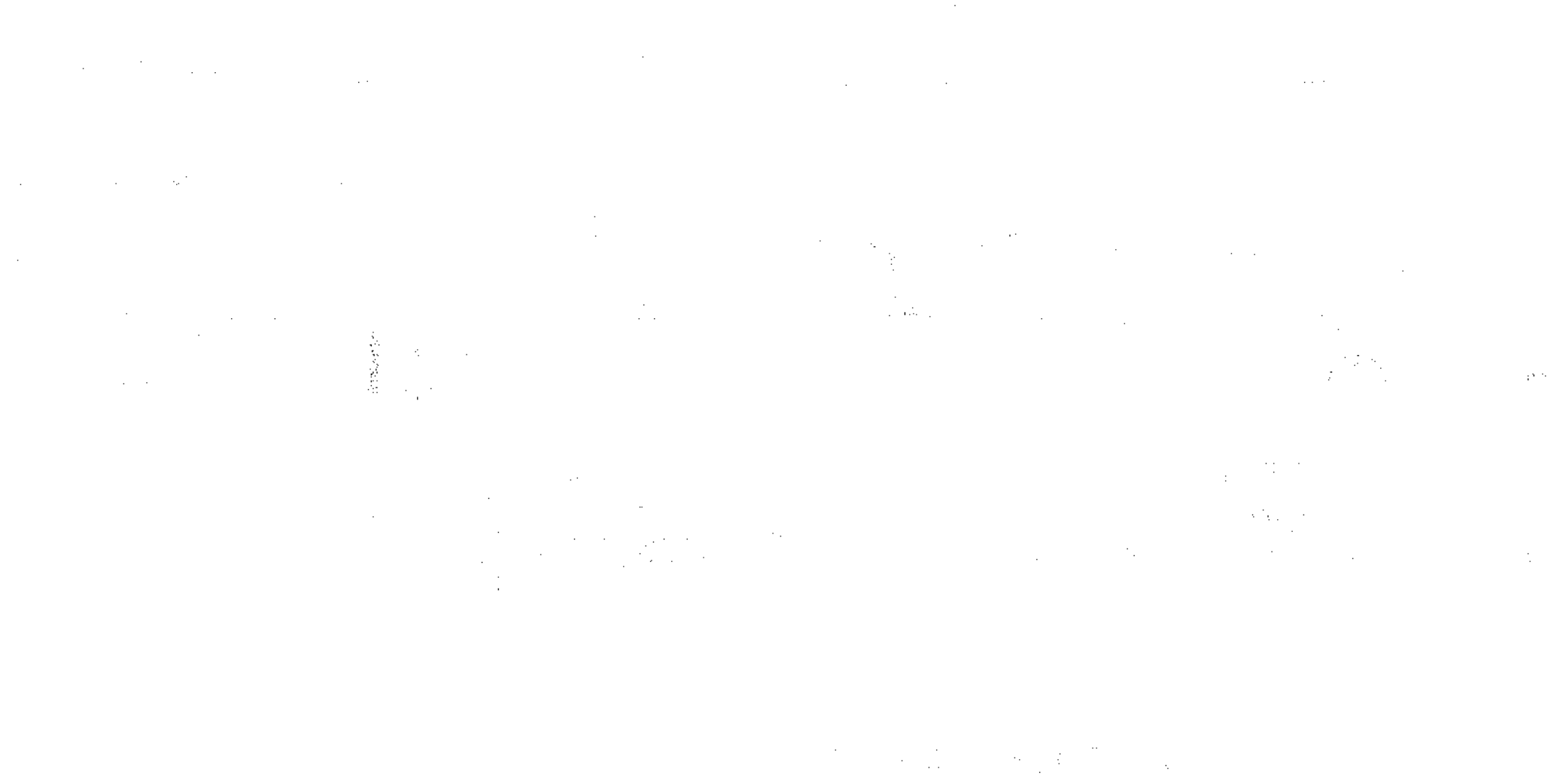
SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1989

 Great Northern Paper a company of Great Northern Nekeosa Corporation	CENTRAL ENGINEERING DEPARTMENT
	DOLBY III LANDFILL CELL 4 COVER SHEET
JOB NO. 94528 ENG. REG. NO. FILE NO. 2-092-4703, 7082	YB-19000



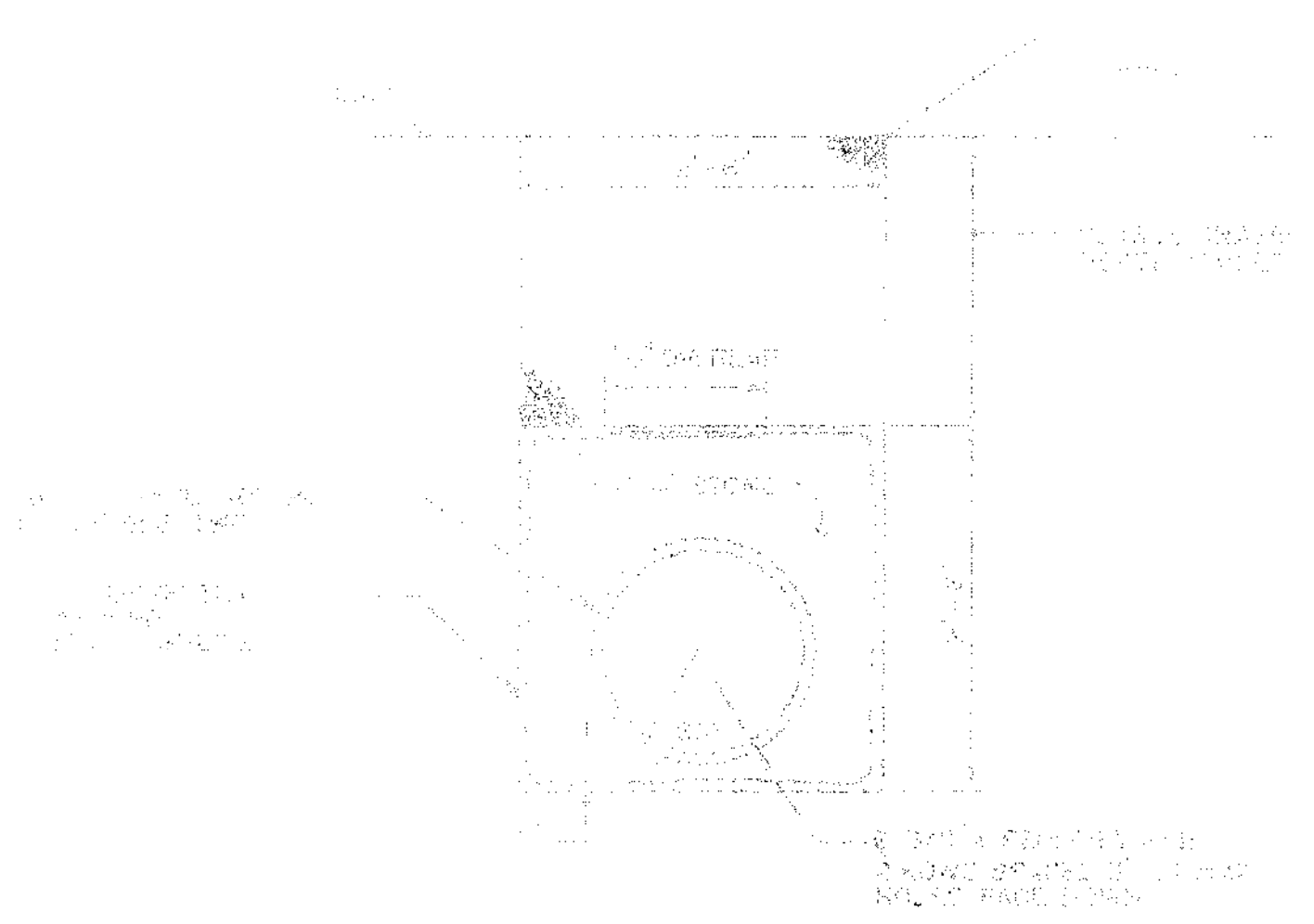
SECTION A-A



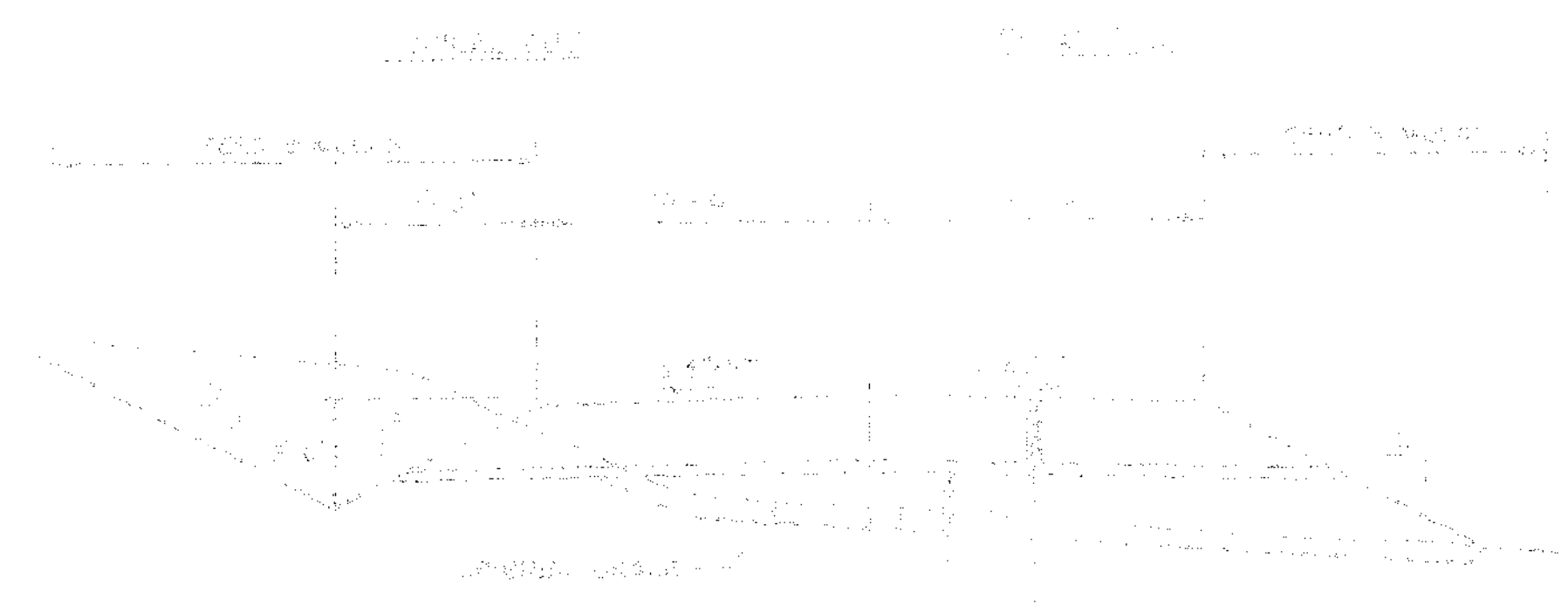
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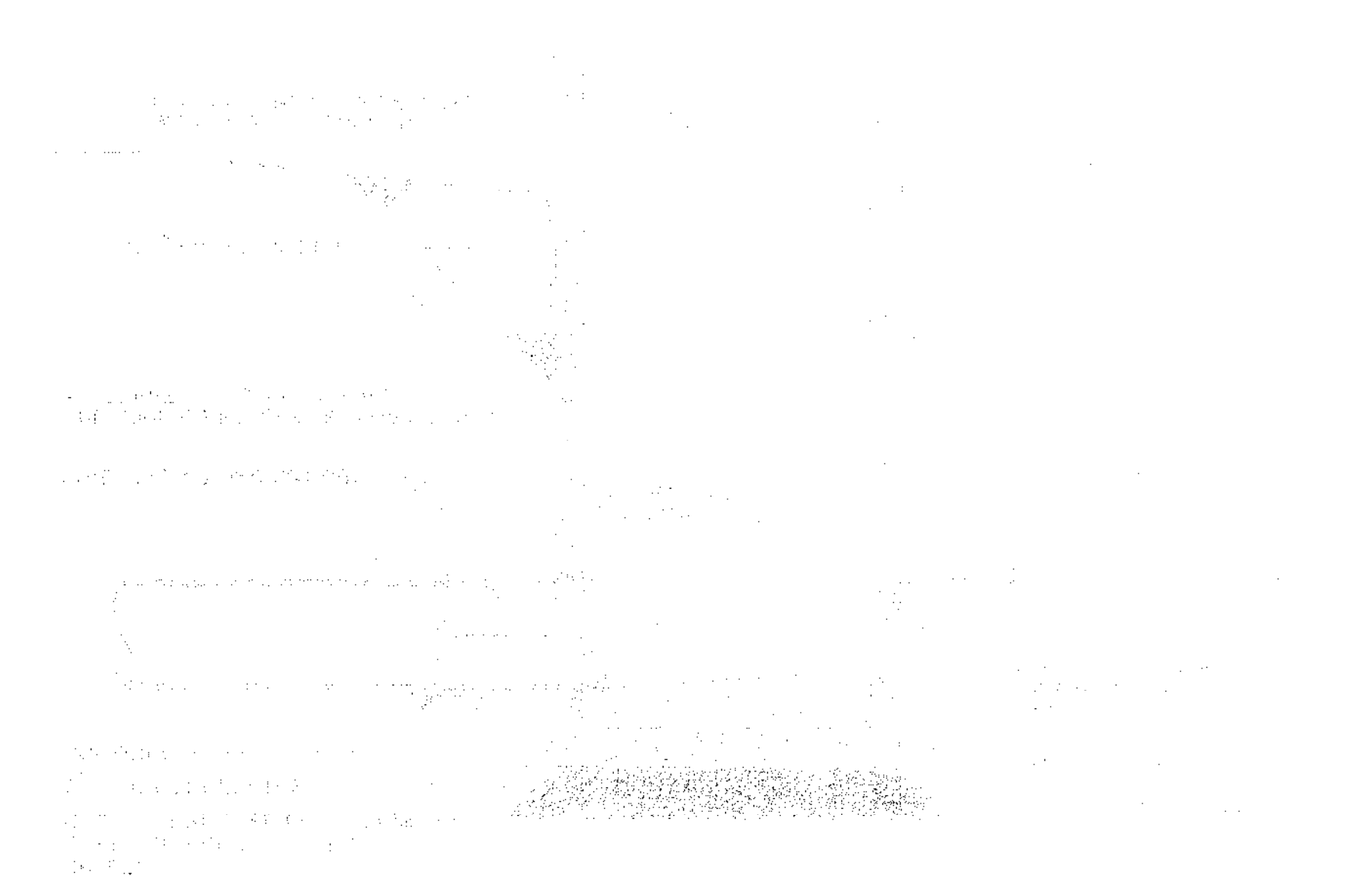
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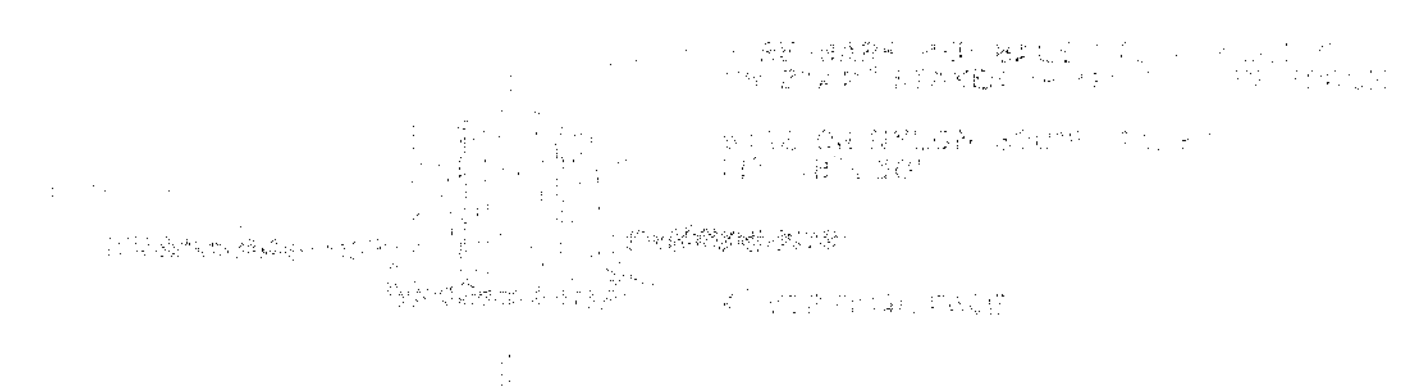
SECTION D-D



SECTION E-E



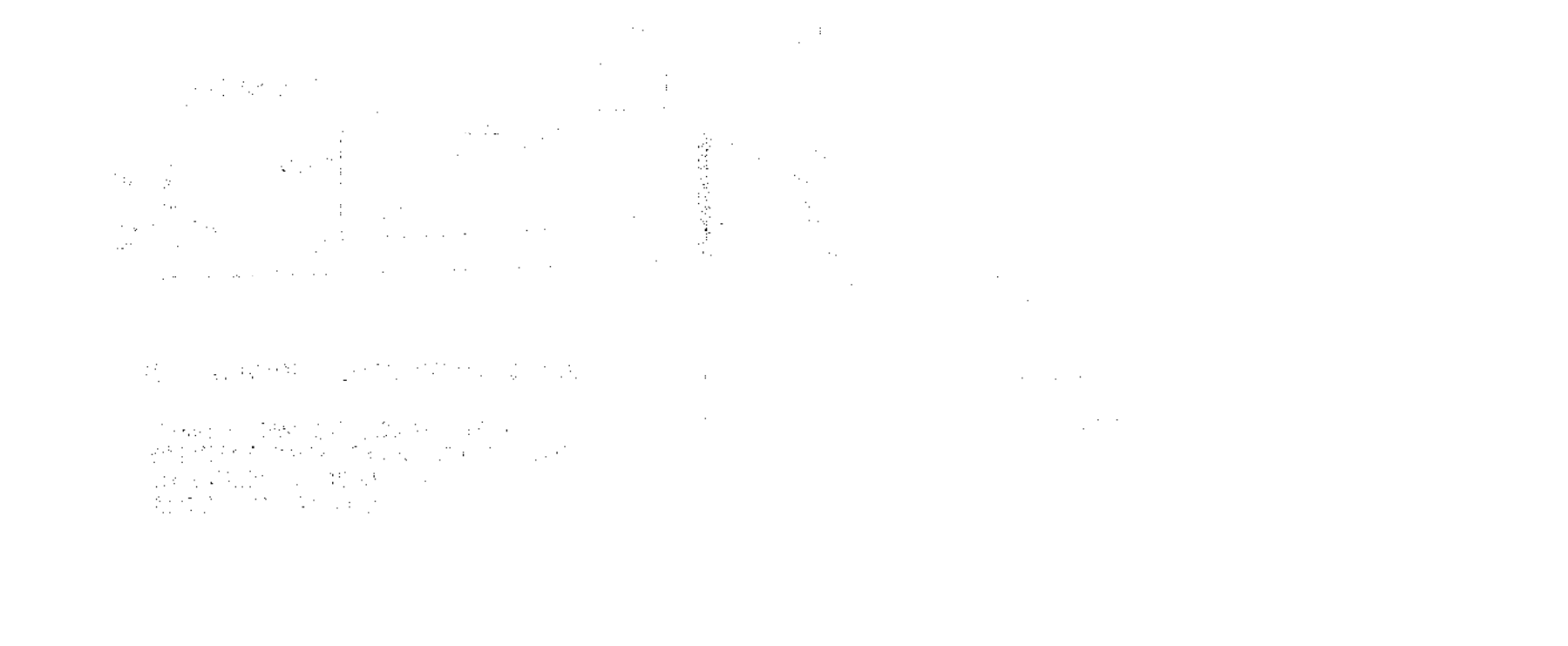
SECTION F-F



SECTION G-G



SECTION H-H



SECTION I-I

Notes and specifications for the dam structure, including details on materials, construction, and safety. The text is dense and contains technical specifications.

LEWIS & WARD ENGINEERS, INC.
CONSULTING ENGINEERS



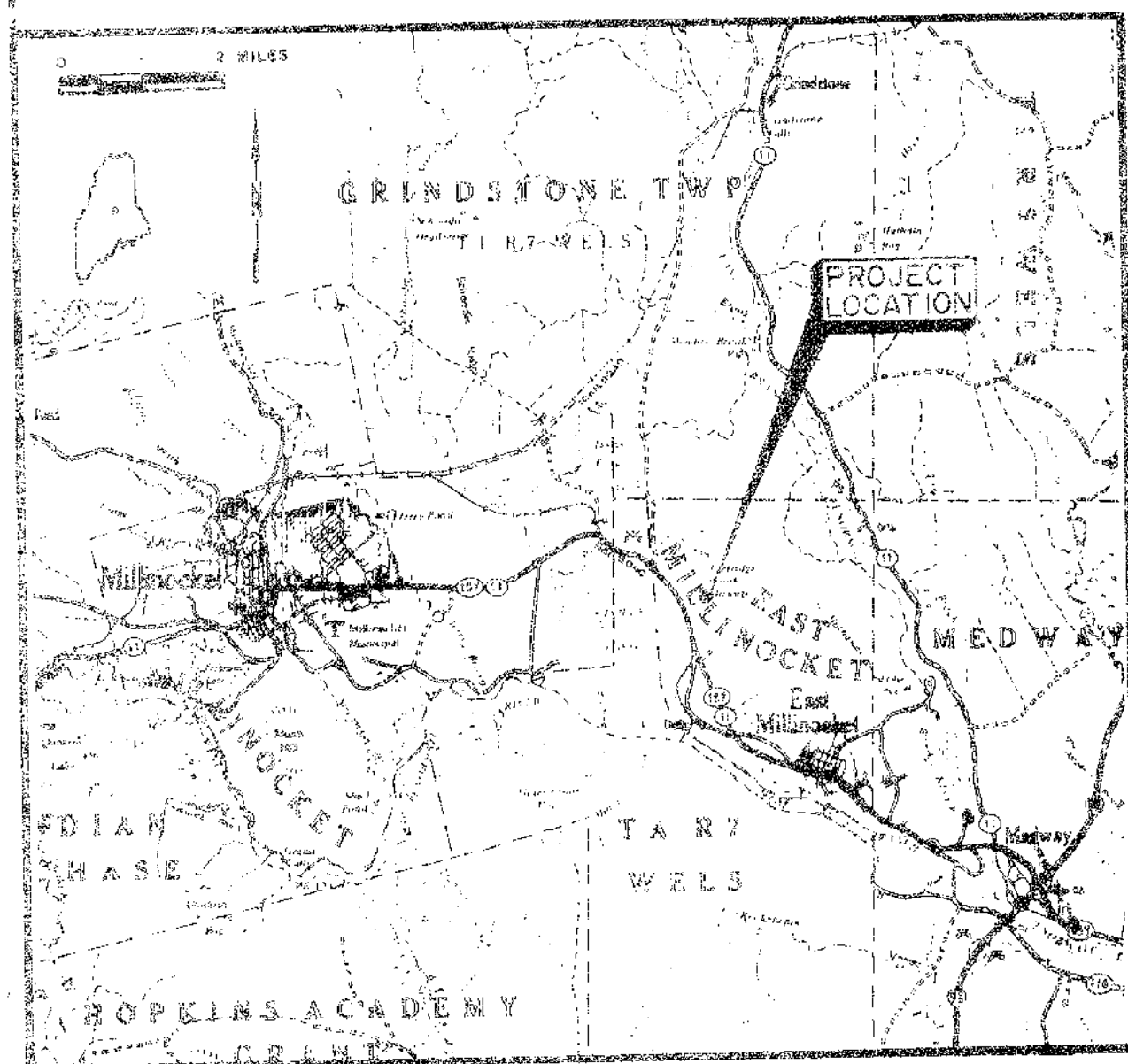
GEORGIA-PACIFIC, NORTHERN PAPERS DIVISION

MILLINOCKET, MAINE

DOLBY III LANDFILL

REMEDIAL ACTIONS CELLS 1 AND 2


SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19176
2	SYMBOLS & ABBREVIATIONS	YB-19177
3	SITE LOCATION PLAN	YB-19178
4	EXISTING TOPOGRAPHY PLAN - CELL 1	YB-19179
5	EXISTING TOPOGRAPHY PLAN - CELL 2	YB-19180
6	SECTIONS & DETAILS	YB-19181

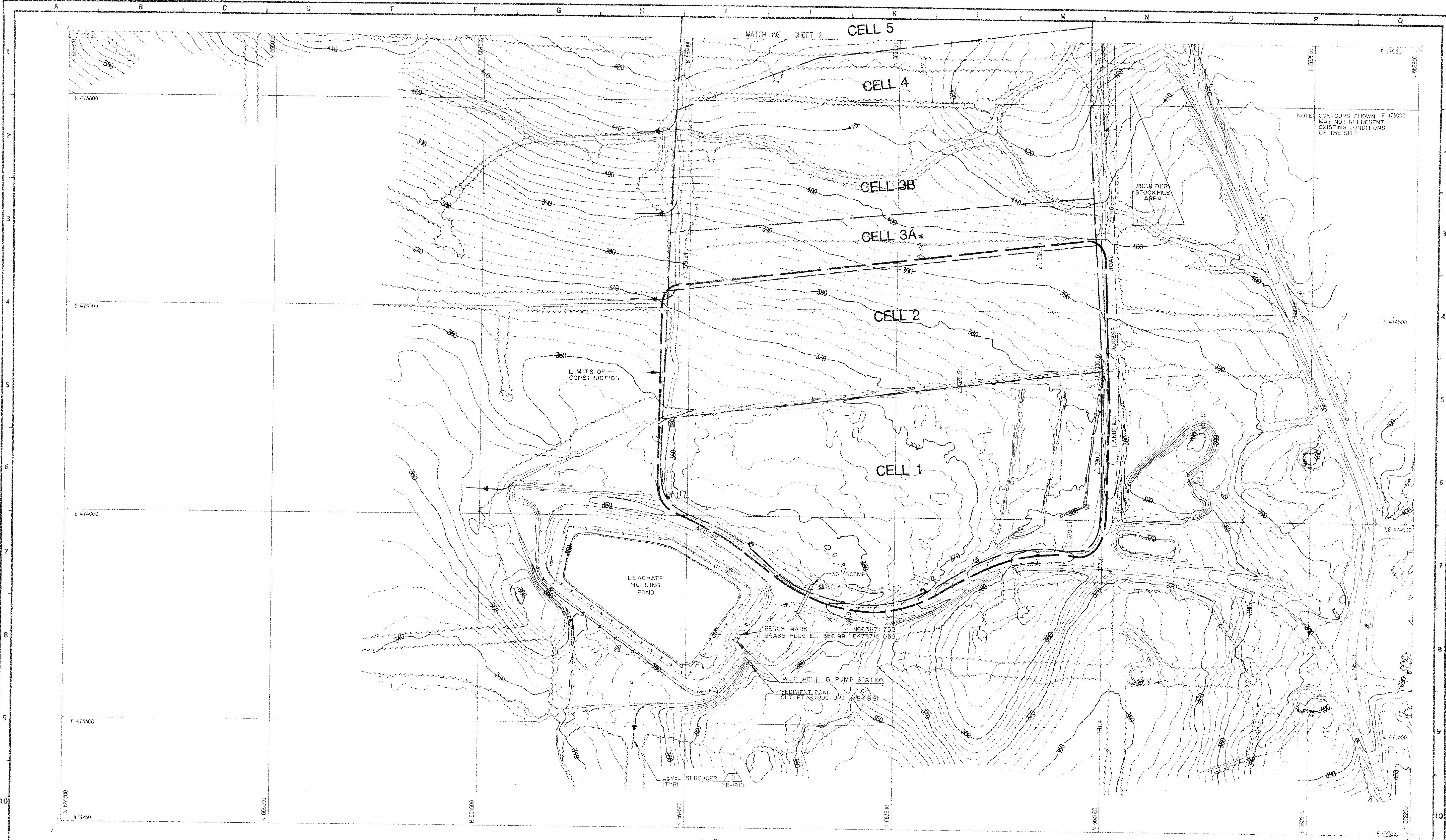


SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1990



 <p>Great Northern Paper a company of Great Northern Nekeasa Corporation</p>	<p>CENTRAL ENGINEERING DEPARTMENT EAST MILLINOCKET MILL</p> <p>DOLBY III LANDFILL REMEDIAL ACTIONS - CELL 1 & 2 COVER SHEET</p>
	<p>JOB NO. _____ ENG. REG. NO. _____ FILE NO. Z-092-4307, 702P</p> <p style="text-align: right;">YB-19176</p>



NOTE: CONTOURS SHOWN E 475000 MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE



DRAWING NO.	PROJECT DRAWING TITLE	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
YB-152.63	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION	12/90	RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRW	RLR	1/90
CKD	M. C. C.	2/90
CRD		
CORR		
APPVD		
ISSUE CODE		
C-CONST		
SCALE 1" = 100'		



Great Northern Paper
a company of
Great Northern Nekeosa Corporation

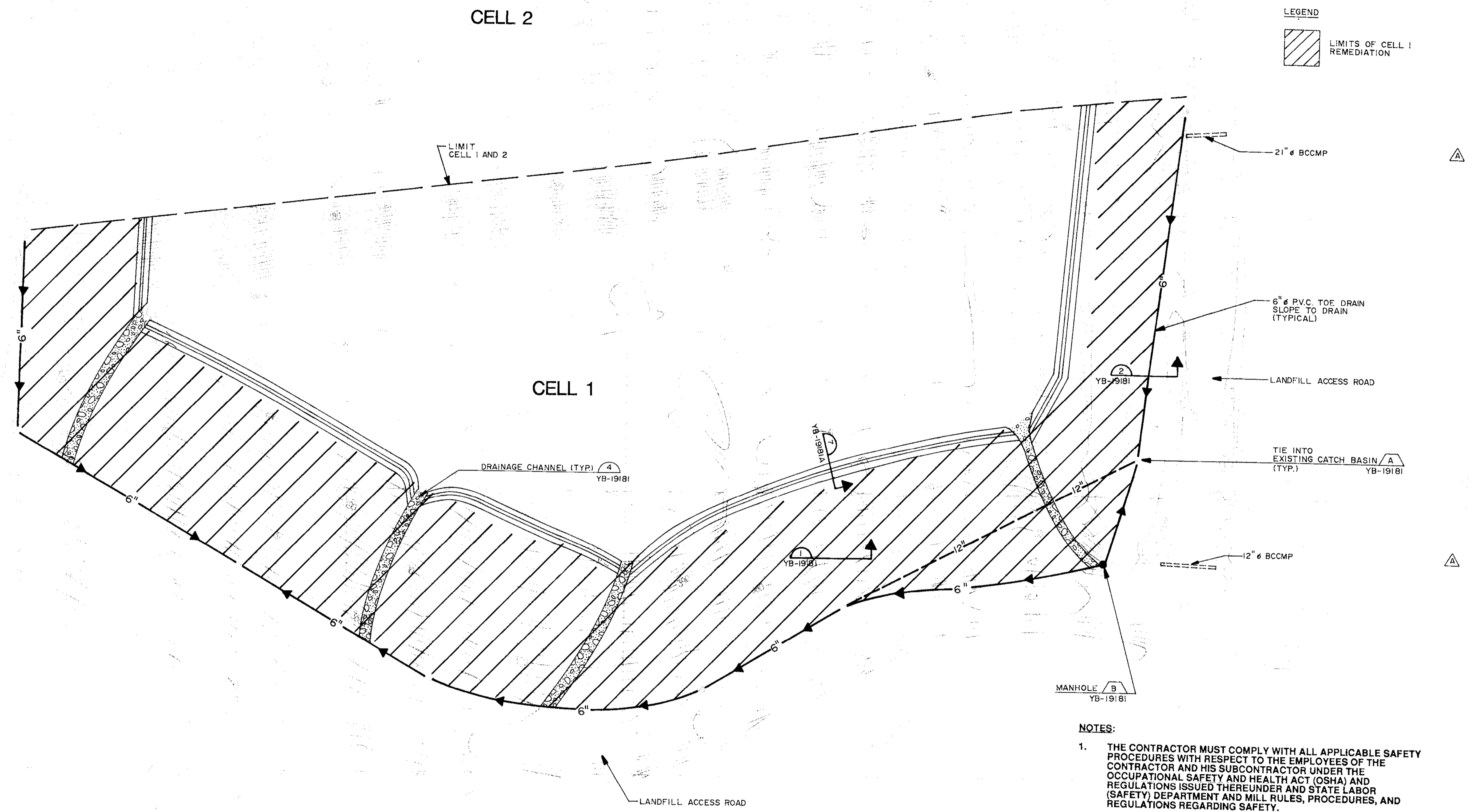
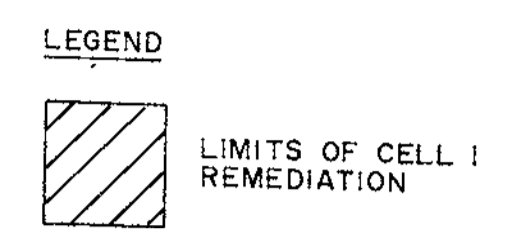
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
SITE LOCATION PLAN

JOB NO.
ENG. REG. NO.
FILE NO. 2-092-4703.7092

YB-19178

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.



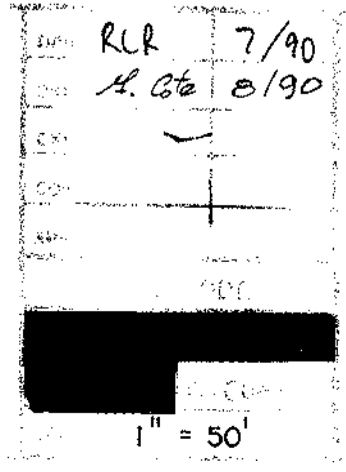
LEACHATE HOLDING POND

- NOTES:
1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
 2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.



YB-15798	DOLBY III LANDFILL - CELL 1, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87)	B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1
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SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

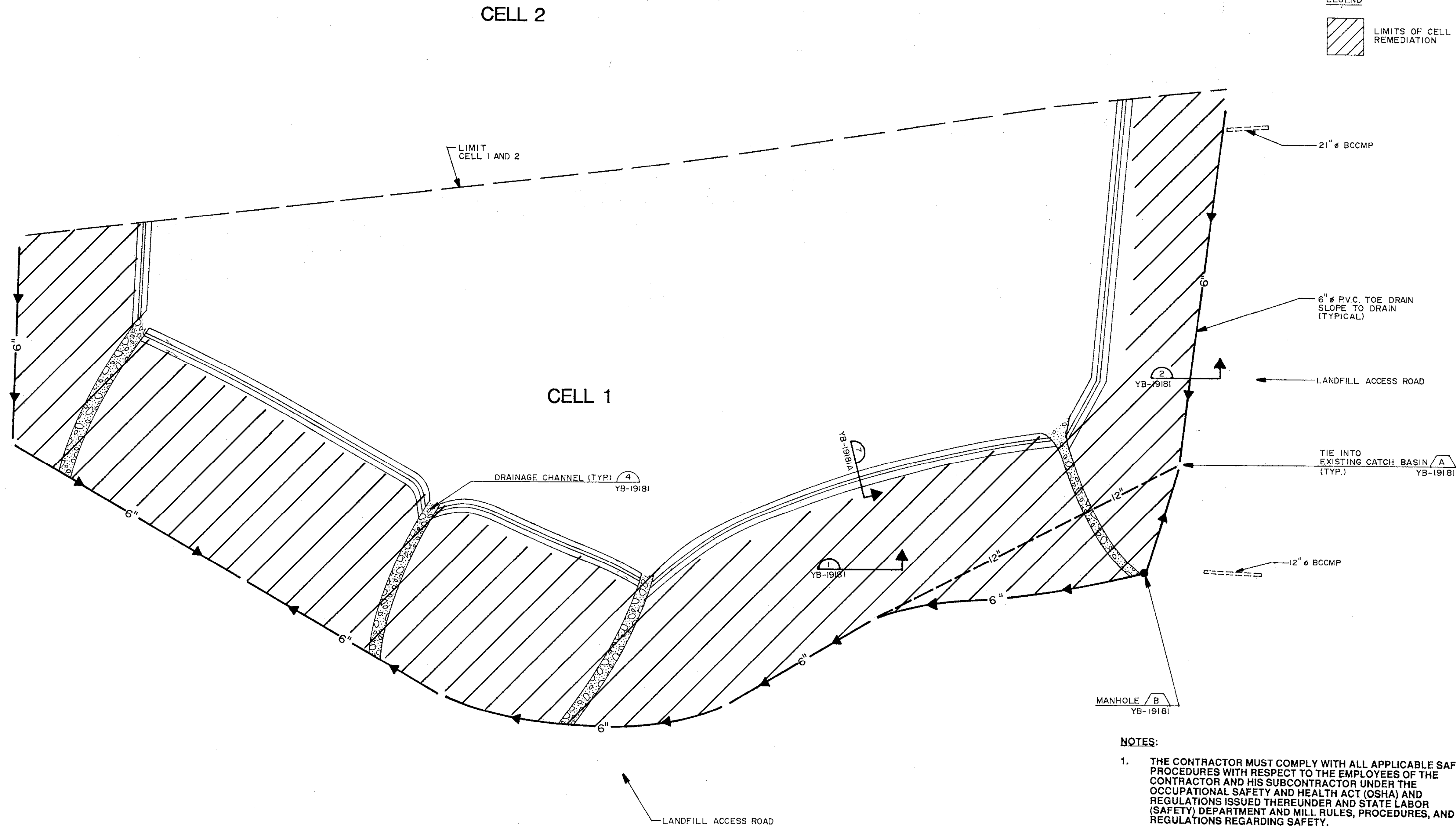
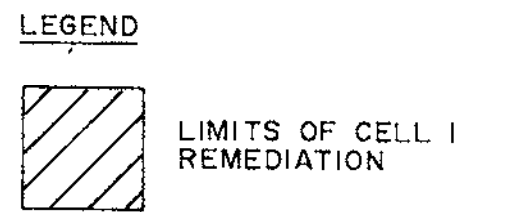


DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1

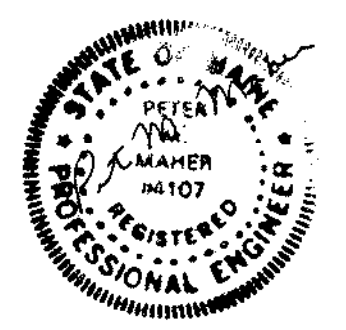
2-092-4703, 7082

Y 19179A

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.



- NOTES:
1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
 2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

RLR 7/90
M. B. 8/90

1" = 50'

YB-15798 DOLBY III LANDFILL-CELL I, TOPOGRAPHIC SURVEY & DIGITIZ.(9/4/87) B A 8/20/90 ISSUED FOR BID - ADDENDUM I

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1
2-092-4703,7082 Y 19179A

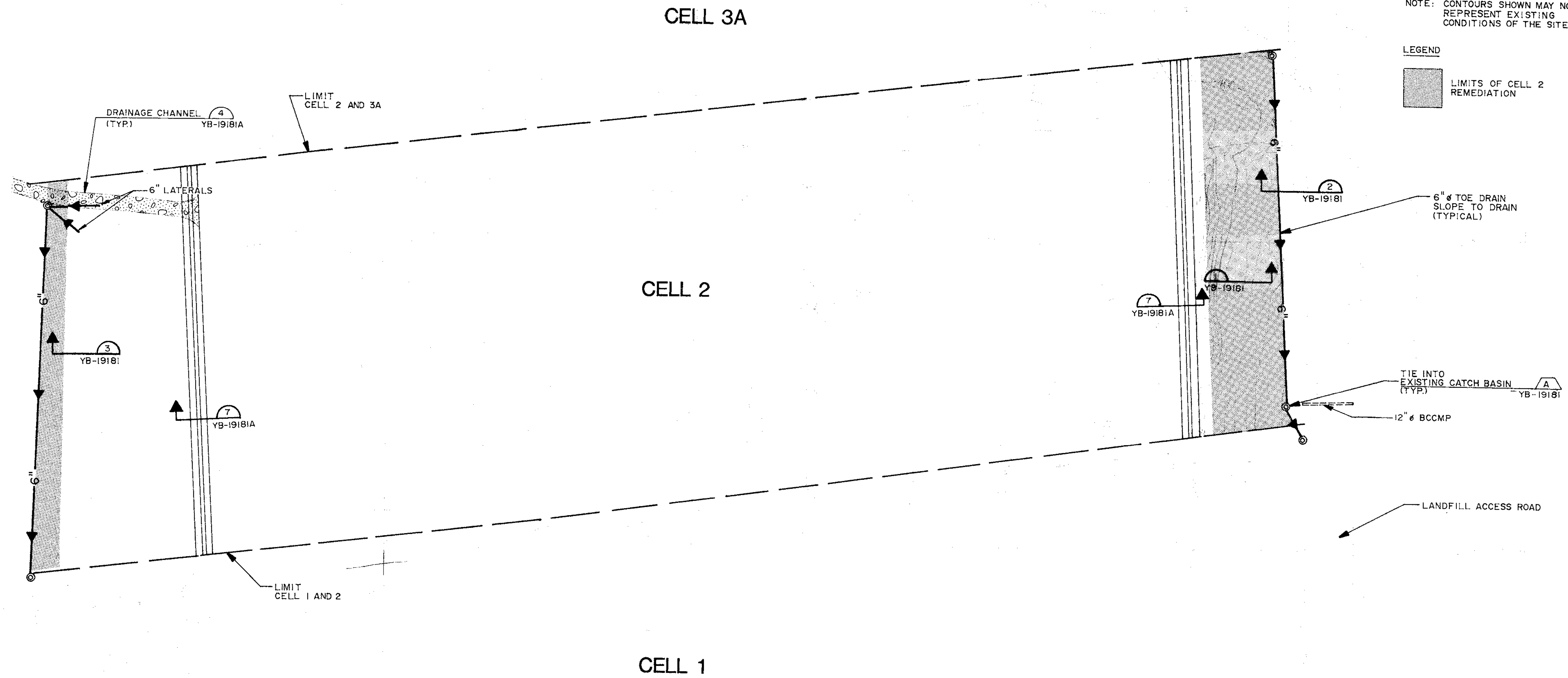
NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

LEGEND

■ LIMITS OF CELL 2 REMEDIATION



YB-15799 DOLBY III LANDFILL-CELL 2, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87) B A 12/90 RECORD DRAWING 8/20/90 ISSUED FOR BID - ADDENDUM I

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

R.L. 7/90
M.G. 8/90

EAST MILLINOCKET MILL
DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 2

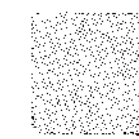
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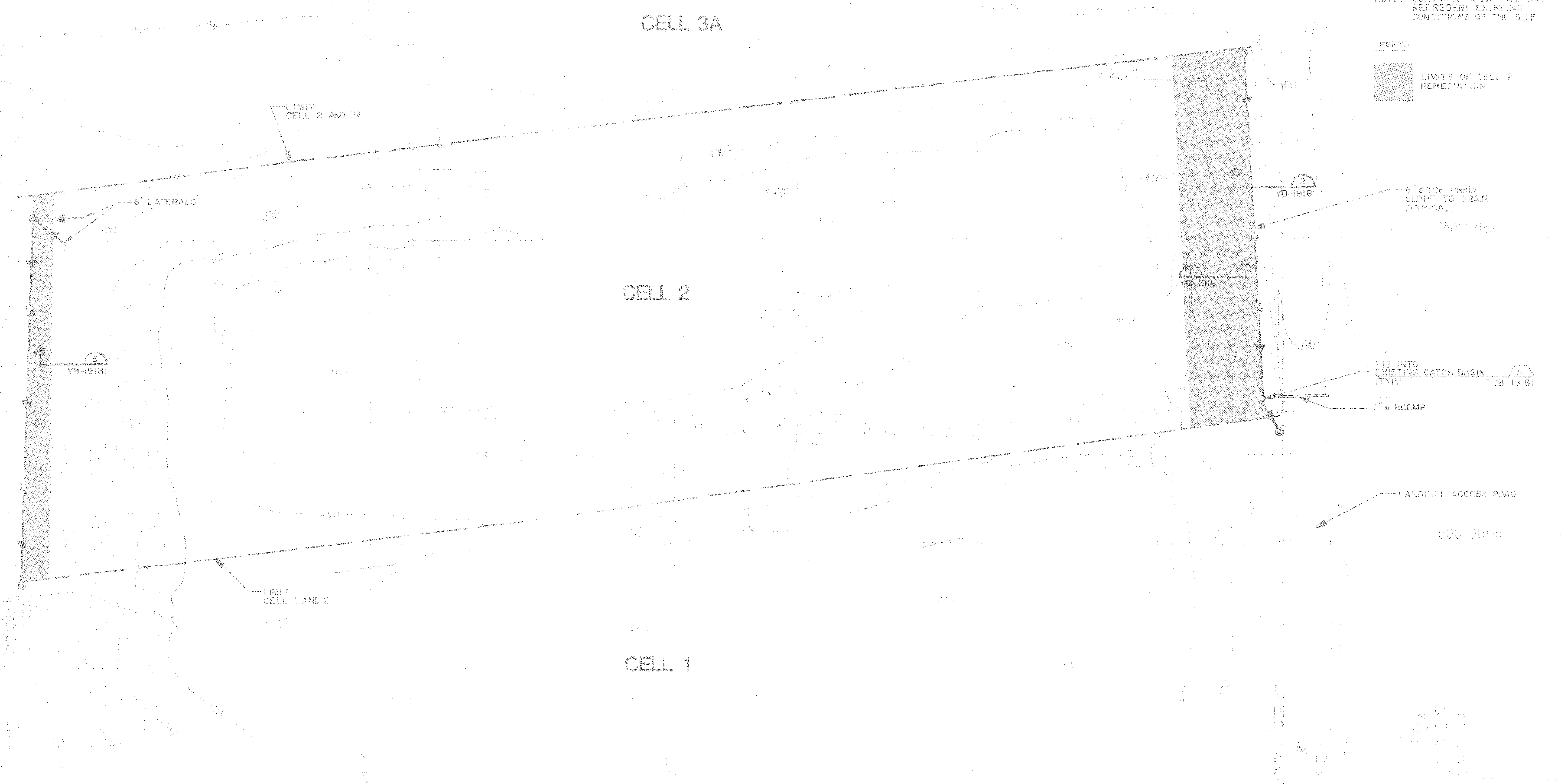
Y -19180A

NOTES

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

LEGEND
 LIMITS OF CELL 2 REMEDIATION



NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR BIDDING	12/31/2024	JM	SM
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			

SEVER & MAHER ENGINEERS, INC.
 CUMBERLAND, MAINE

DATE	12/31/2024
PROJECT	DOLBY MILL LANDFILL
DRAWN BY	JM
CHECKED BY	SM
SCALE	AS SHOWN
TITLE	REMEDIAL ACTIONS - CELL 1 & 2



Grand Northern Paper
 1000 Main Street
 Grand Rapids, MI 49503

**CENTRAL ENGINEERING DEPARTMENT
 EAST MILLINOCKET MILL**

DOLBY MILL LANDFILL
 REMEDIAL ACTIONS - CELL 1 & 2
 EXISTING TOPOGRAPHY PLAN - CELL 2

YB-1918C

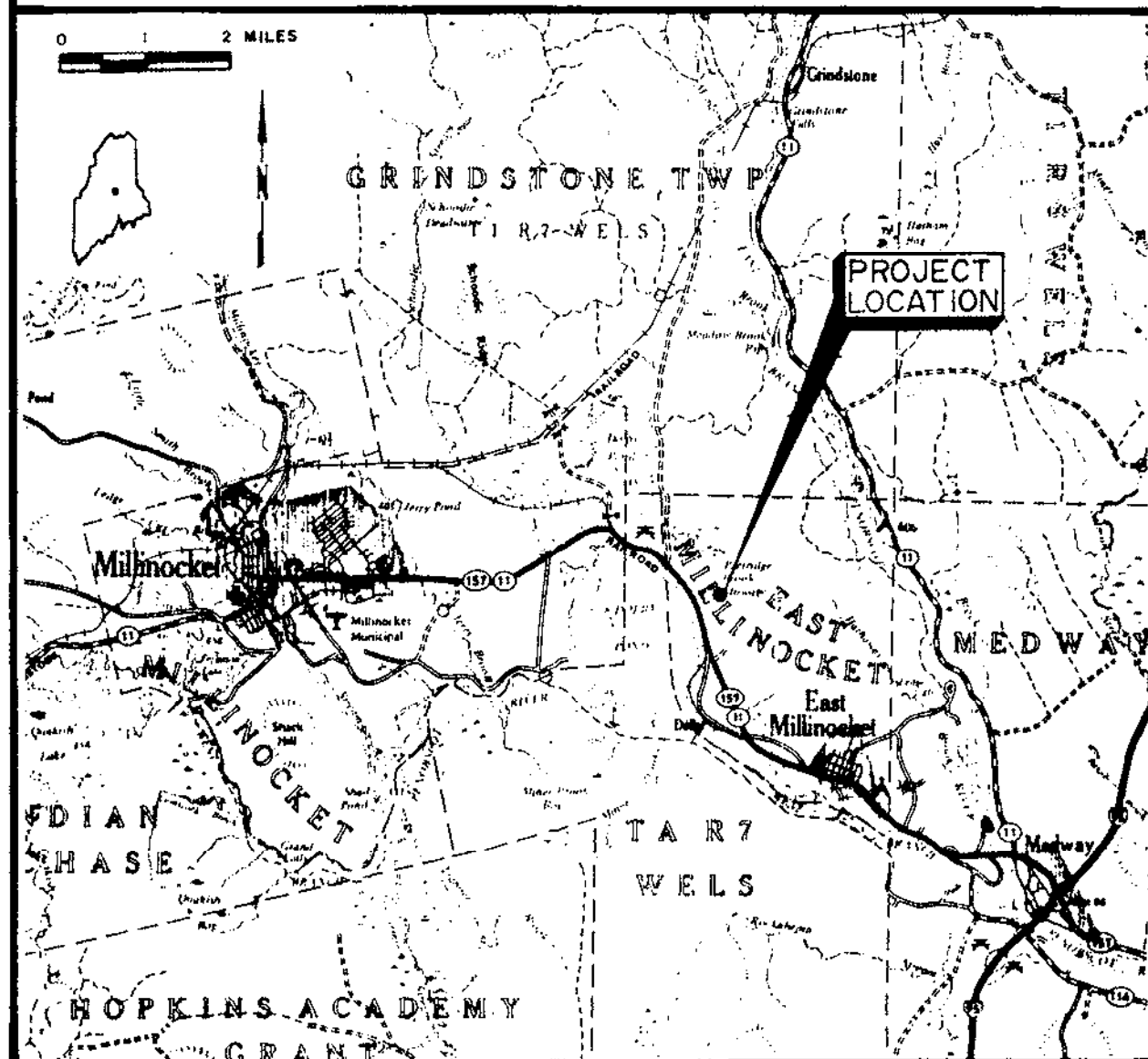
GEORGIA-PACIFIC, NORTHERN PAPERS DIVISION

MILLINOCKET, MAINE

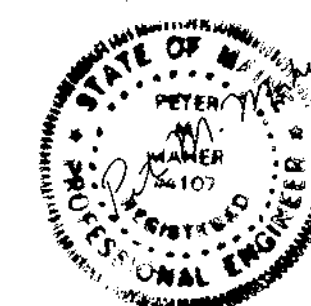
DOLBY III LANDFILL

FINAL COVER OF CELLS 3A, 3B AND 4

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19167
2	SYMBOLS & ABBREVIATIONS	YB-19168
3	SITE LOCATION PLAN	YB-19169
4	EXISTING TOPOGRAPHY PLAN	YB-19170
5	SECTIONS & DETAILS	YB-19171



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990



Great Northern Paper
a company of
Great Northern Nekeosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER - CELLS 3A, 3B, & 4
COVER SHEET

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703,7082

YB-19167

SYMBOLS

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED

MATERIAL SPECIFICATIONS

FINAL COVER

SAND -	MDOT SPECIFICATION 703.06b, TYPE F (AGGREGATE FOR SAND LEVELING) PERMEABILITY $\geq 1 \times 10^{-5}$ cm/sec
COVER SOIL -	WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE. NO STONES GREATER THAN 4 INCHES IN DIAMETER (COMPACTED 95 PERCENT STANDARD PROCTOR)
TOP COVER SOIL -	A MIXTURE OF WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE AND SECONDARY SLUDGE. NO STONES GREATER THAN 3 INCHES IN DIAMETER
SLUDGE -	HOMOGENEOUS SECONDARY SLUDGE AS RECEIVED FROM MILL.

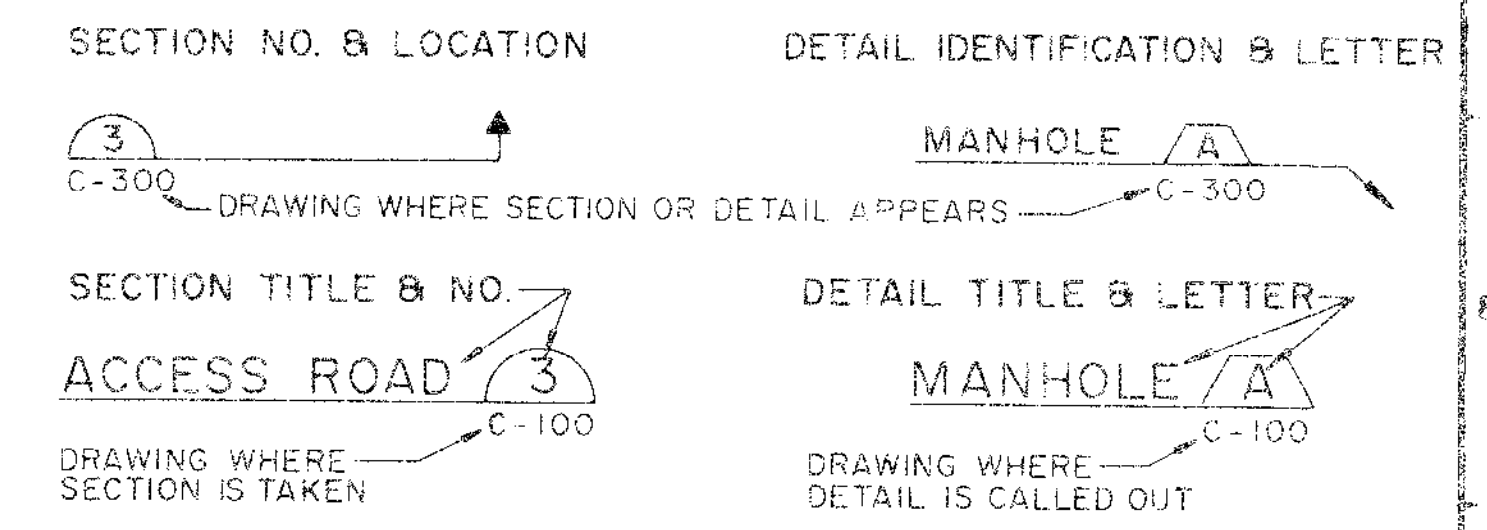
MATERIAL TESTING SCHEDULE

BORROW SOURCE	TEST	FREQUENCY
COVER SOIL SAND SAND	GRAIN SIZE	4 TEST
	GRAIN SIZE	2 TEST
	PERMEABILITY	2 TEST
ON-SITE		
COVER SOIL SAND SAND	GRAIN SIZE	1/2000 CY
	GRAIN SIZE	4 TEST
	PERMEABILITY	1/5000 CY

TEST METHODS

GRAIN SIZE	ASTM D422
PERMEABILITY	ASTM D2434

VIEW MARKERS & IDENTIFICATION



ABBREVIATIONS

A.C.C.M.P. ASPHALT COATED C.M.P. A.C.F. ASBESTOS CEMENT PIPE AC ACRE AGG AGGREGATE ALUM ALUMINUM APPD APPROVED APPROX APPROXIMATE ASB ASBESTOS ASPH ASPHALT AT2 C.M.P. ALUMINUM TYPE 2 C.M.P. AUTO AUTOMATIC ALX AUXILIARY AVE AVENUE AVG AVERAGE AZ AZIMUTH B.C.C.M.P. BITUMINOUS COATED C.M.P. B.M. BENCH MARK BIT BITUMINOUS BLDG BUILDING BOT BOTTOM BRG BEARING C.B. CATCH BASIN	C.M.P. CEMENT LINED CEN CENTRAL ANGLE OF CURVE CFS CUBIC FEET CFSY CUBIC FEET PER SECOND CI CAST IRON CL CLASS CONC CONCRETE CONST CONSTRUCTION CONTR CONTRACTOR CTR CENTER CY CUBIC YARD D DEGREE OF CURVE (ARC DEF.) DBL DOUBLE DEG OR ° DEGREE DEPT DEPARTMENT DI DIA OR Ø DIAMETER DIA OR Ø DIAMETER DIM DIMENSION DIST DISTANCE DN DOWN	CORRUGATED METAL PIPE CLEAN OUT CEMENT LINED CENTRAL ANGLE OF CURVE CUBIC FEET CUBIC FEET PER SECOND CAST IRON CLASS CONCRETE CONSTRUCTION CONTRACTOR CENTER CUBIC YARD DEGREE OF CURVE (ARC DEF.) DOUBLE DEGREE DEPARTMENT DUCTILE IRON DIAMETER DIMENSION DISTANCE DOWN	DR DRAIN DWG DRAWING EA EACH EG EXISTING GROUND OR GRADE ELEC ELECTRIC ELL ELBOW EQUIP EQUIPMENT EST ESTIMATED EXC EXCAVATE EXIST EXISTING F.G. FINISH GRADE FBRGL FIBERGLASS FDN FOUNDATION FLEX FLEXIBLE FLG FLANGE FLR FLOOR FPS FEET PER SECOND FT OR ' FEET FTG FOOTING GA GAUGE GAL GALLON GALV GALVANIZED	GPD GALLONS PER DAY GPM GALLONS PER MINUTE HOPE HIGH DENSITY POLYETHYLENE HP HORSEPOWER HYD HYDRANT I.D. INSIDE DIAMETER IN OR " INCHES INV INVERT INV. EL. INVERT ELEVATION LB POUND LEACHATE COLLECTION LEACHATE COLLECTION LD LEAK DETECTION LFN LINEAR FEET LOC LOCATION LT LEFT M.H. MANHOLE M.J. MECHANICAL JOINT MATL MATERIAL MAX. MAXIMUM MFR MANUFACTURE MIN. MINIMUM MISC MISCELLANEOUS	MON MONUMENT N.I.T.C. NOT IN THIS CONTRACT N.T.S. NOT TO SCALE N/F NOW OR FORMERLY NO. OR # NUMBER O.C. ON CENTER O.D. OUTSIDE DIAMETER P.C. POINT OF CURVE P.I. POINT OF INTERSECTION P.T. POINT OF TANGENT PERF PERFORATED POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE PAYMENT PAYMENT QTY QUANTITY R.O.W. RIGHT OF WAY RAD RADIUS REQD REQUIRED RT RIGHT RTE ROUTE S SLOPE SCH SCHEDULE	SF SQUARE FEET SHT SHEET STA STATION SY SQUARE YARD TAN TANGENT TDH TOTAL DYNAMIC HEAD TEMP TEMPORARY TYP TYPICAL V VOLTS W/ WITH W/O WITHOUT YD YARD
--	---	--	---	---	--	--



NO.	DATE	BY	CHKD	APPVD	JOB NO.

SEVEE & MAHER ENGINEERS, INC.
SUMBERLAND, MAINE

DRW	7/90
CKD	8/90
APPVD	
ISSUE CODE	8-BIDS
SCALE	

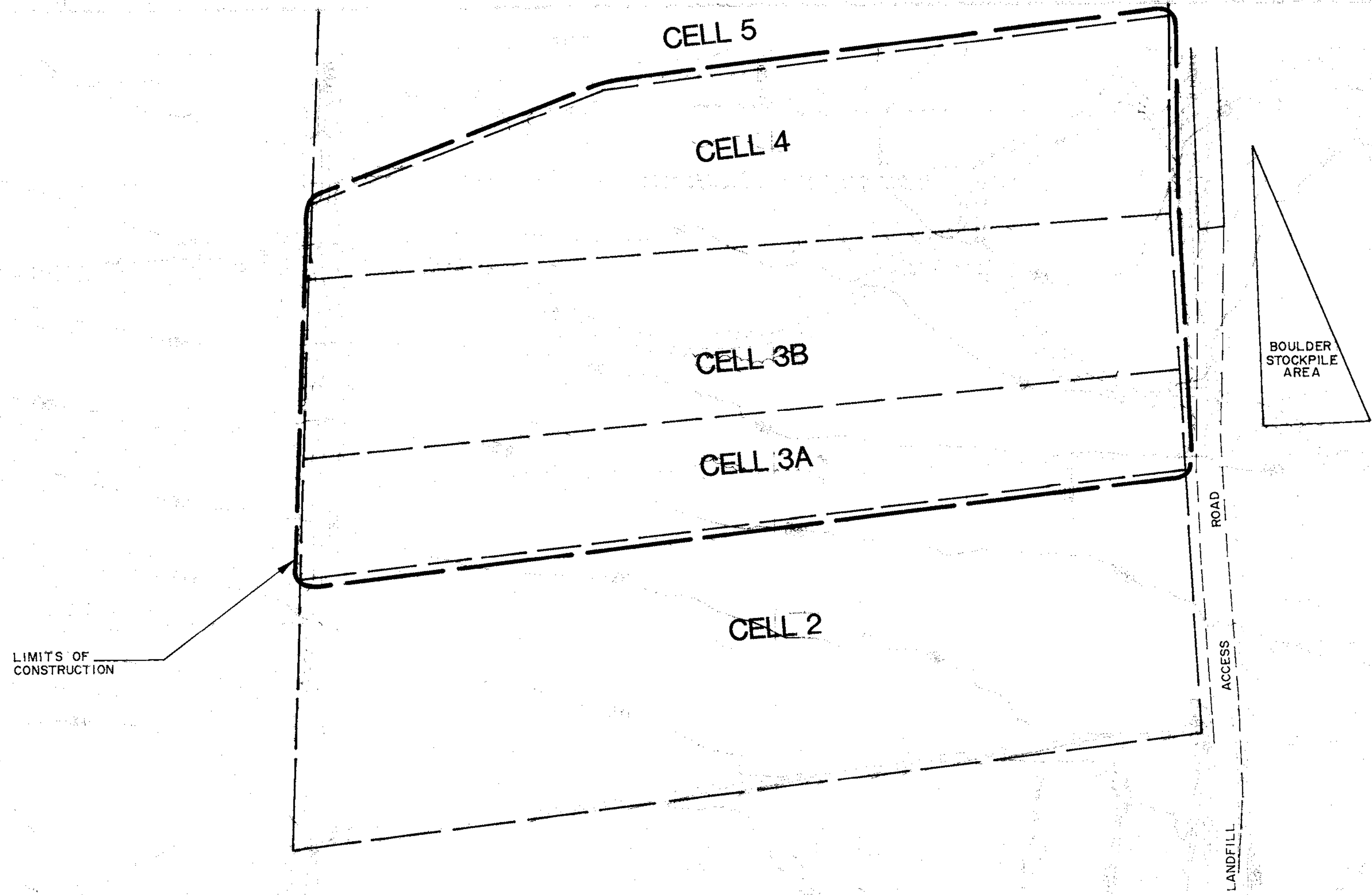


CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER - CELLS 3A, 3B, & 4
SYMBOLS & ABBREVIATIONS

JOB NO. _____
ENGR. NO. _____
FILE NO. 2-992-4703, 7042

YB-19168



LIMITS OF CONSTRUCTION

BOULDER STOCKPILE AREA

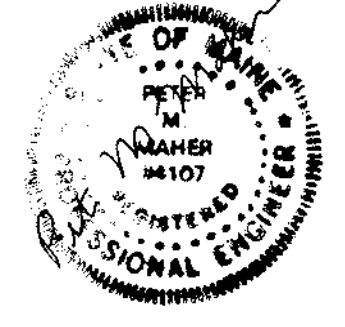
ROAD
ACCESS
LANDFILL

LEACHATE HOLDING POND

ROAD

BENCH MARK
BRASS PLUG EL. 356.99 N663871.733
E473716.059

WET WELL & PUMP STATION



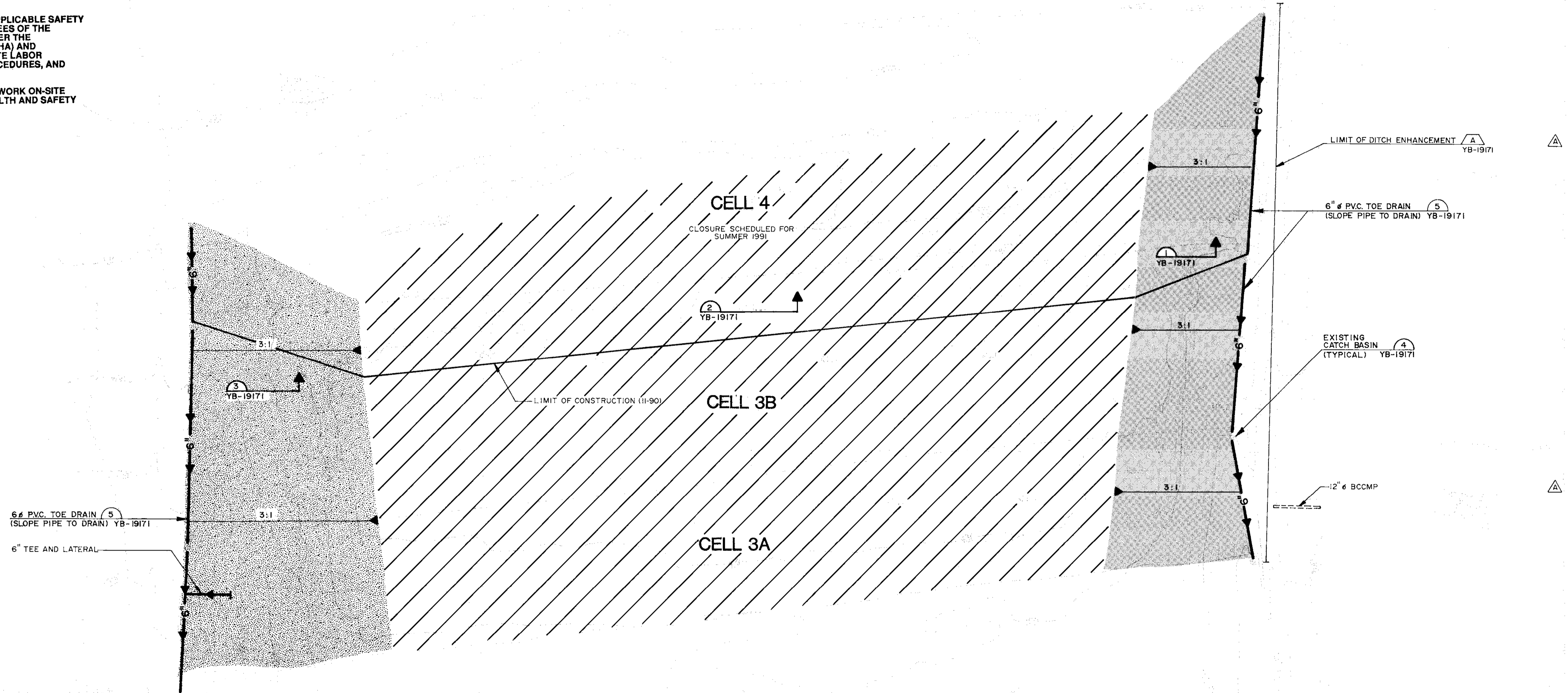
RCL 7/90
A. Cole 8/90



NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.



YB-16476	DOLBY III LANDFILL-CELLS 3A, 3B, & 4 TOPO. SURVEY & DIGITIZ. (4/18/90)	B	A	8/20/90	ISSUED FOR BID-ADDENDUM 1
12/90 RECORD DRAWING					

CUMBERLAND, MAINE

RLR 7/90
At Cont. 8/19/90

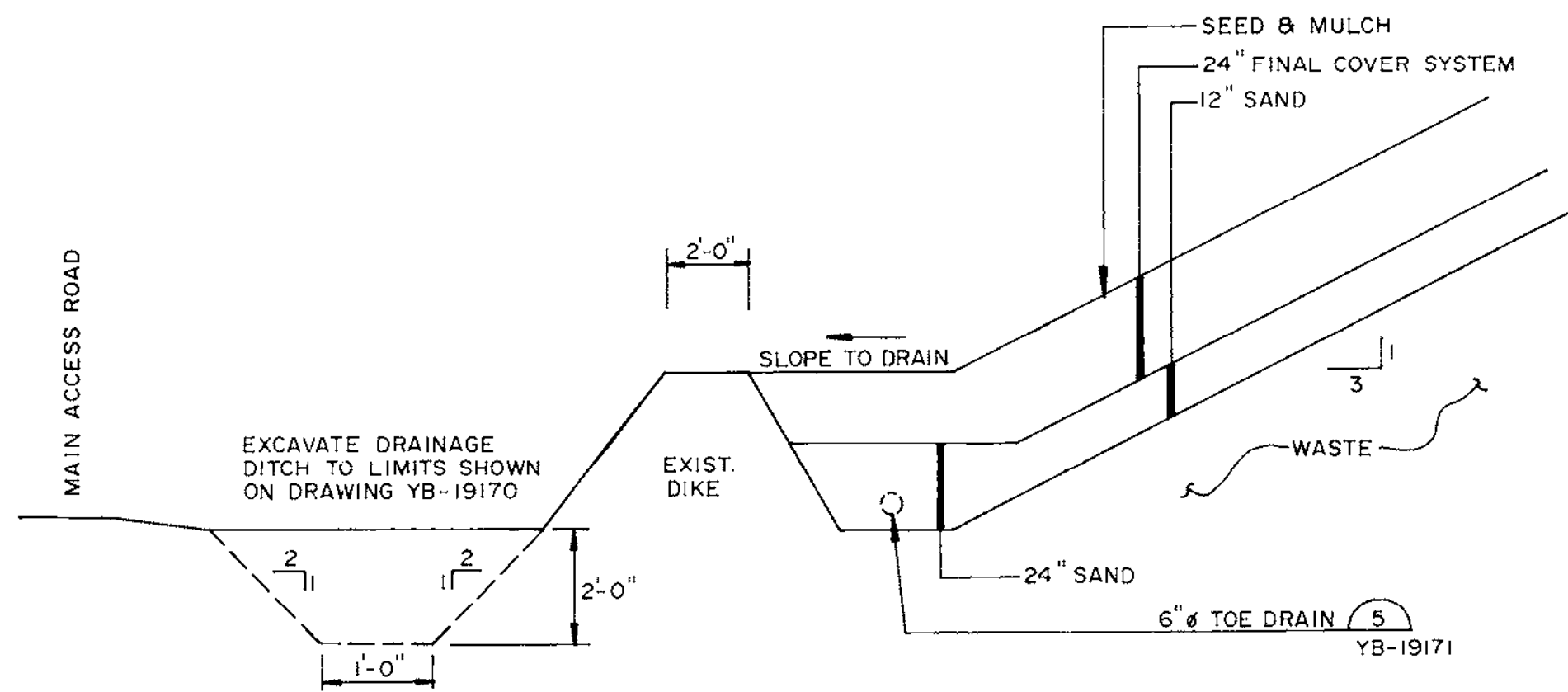
1" = 50'

EAST MILLINOCKET MILL

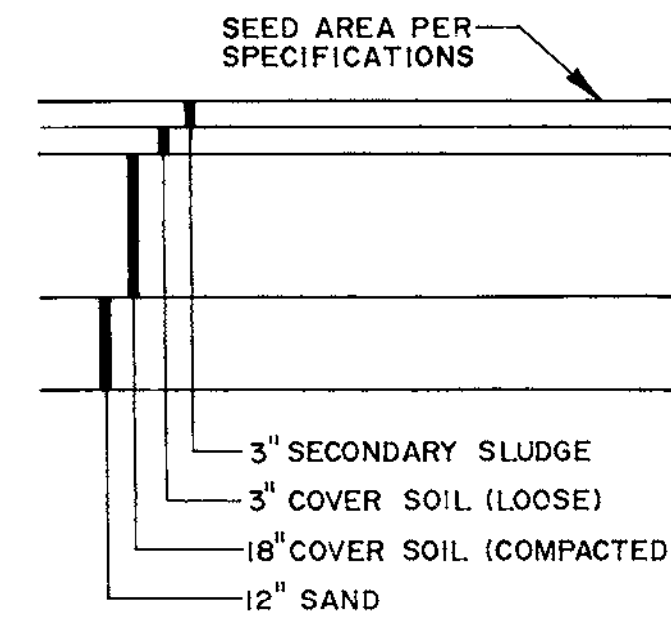
DOLBY III LANDFILL
FINAL COVER-CELLS 3A, 3B, & 4
EXISTING TOPOGRAPHY PLAN

YB-19170

2-092-4703,7082

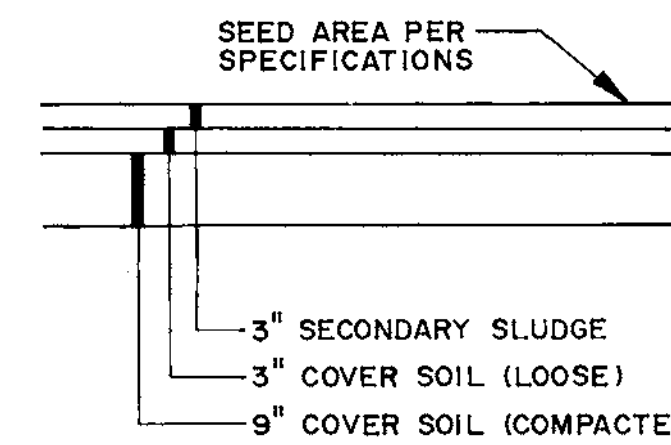


DITCH ENHANCEMENT DETAIL
N.T.S. YB-19170



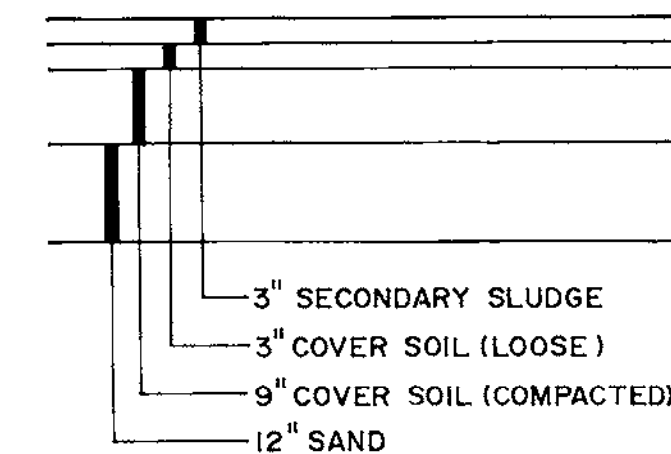
NOTE: SOUTHERN SIDE OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

FINAL COVER SECTION
SCALE: 1" = 2'-0" YB-19170



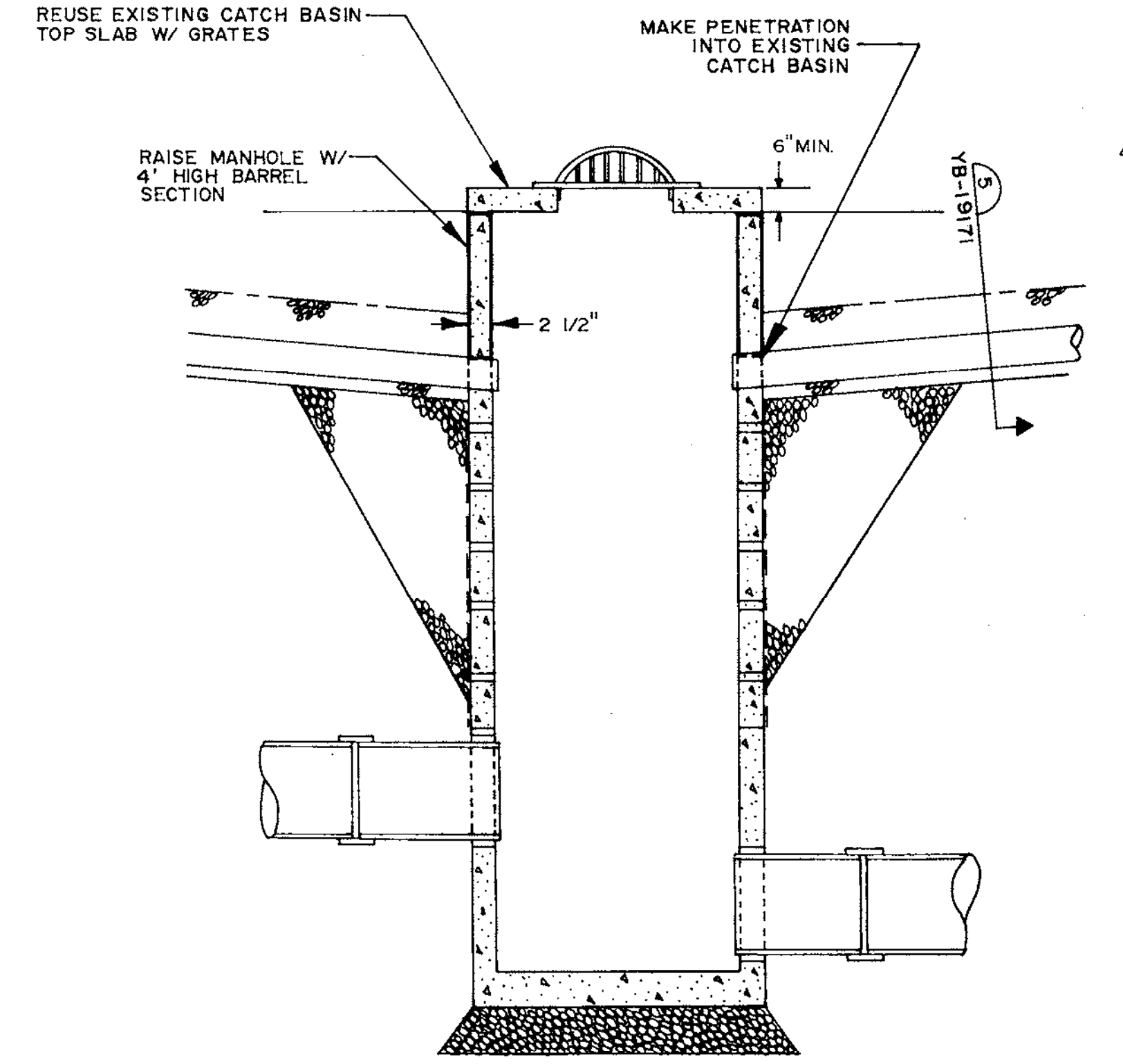
NOTE: TOP OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE TOP COVER SECTION
SCALE: 1" = 2'-0" YB-19170

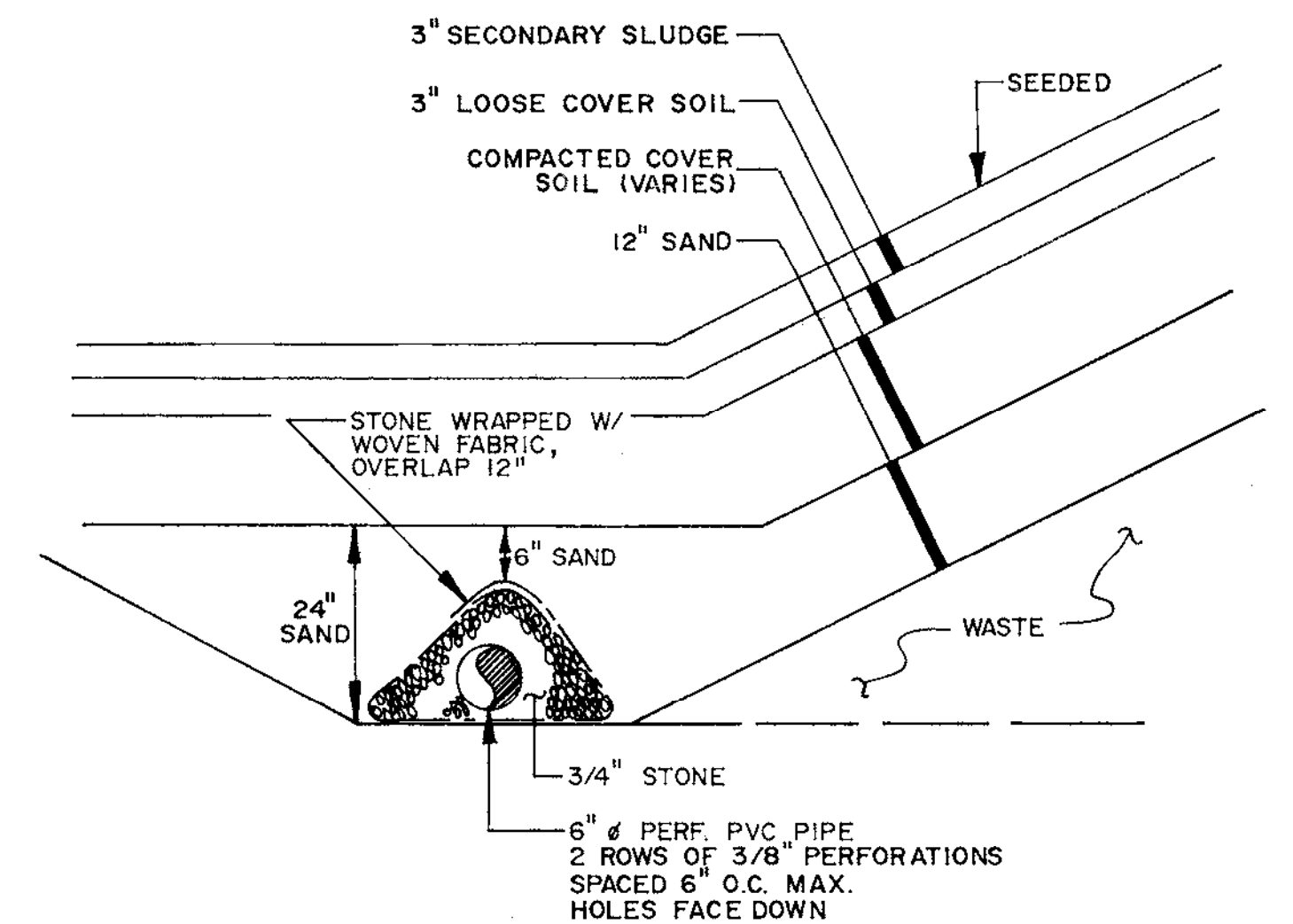


NOTE: NORTHERN SIDE OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE SLOPE COVER SECTION
SCALE: 1" = 2'-0" YB-19170



CATCH BASIN
N.T.S. (EXISTING) YB-19170



SECTION 5
N.T.S. YB-19170 YB-19171



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.	JOB NO.
				12/90	RECORD DRAWING					
		B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1					

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRN	RLR	7/90
CKD	A. Cole	8/90
CHKD		
CORR		
APPVD		
ISSUE CODE		
C-CONST		
SCALE AS SHOWN		



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER-CELLS 3A, 3B, & 4
SECTIONS & DETAILS

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703, 7082

YB-19171

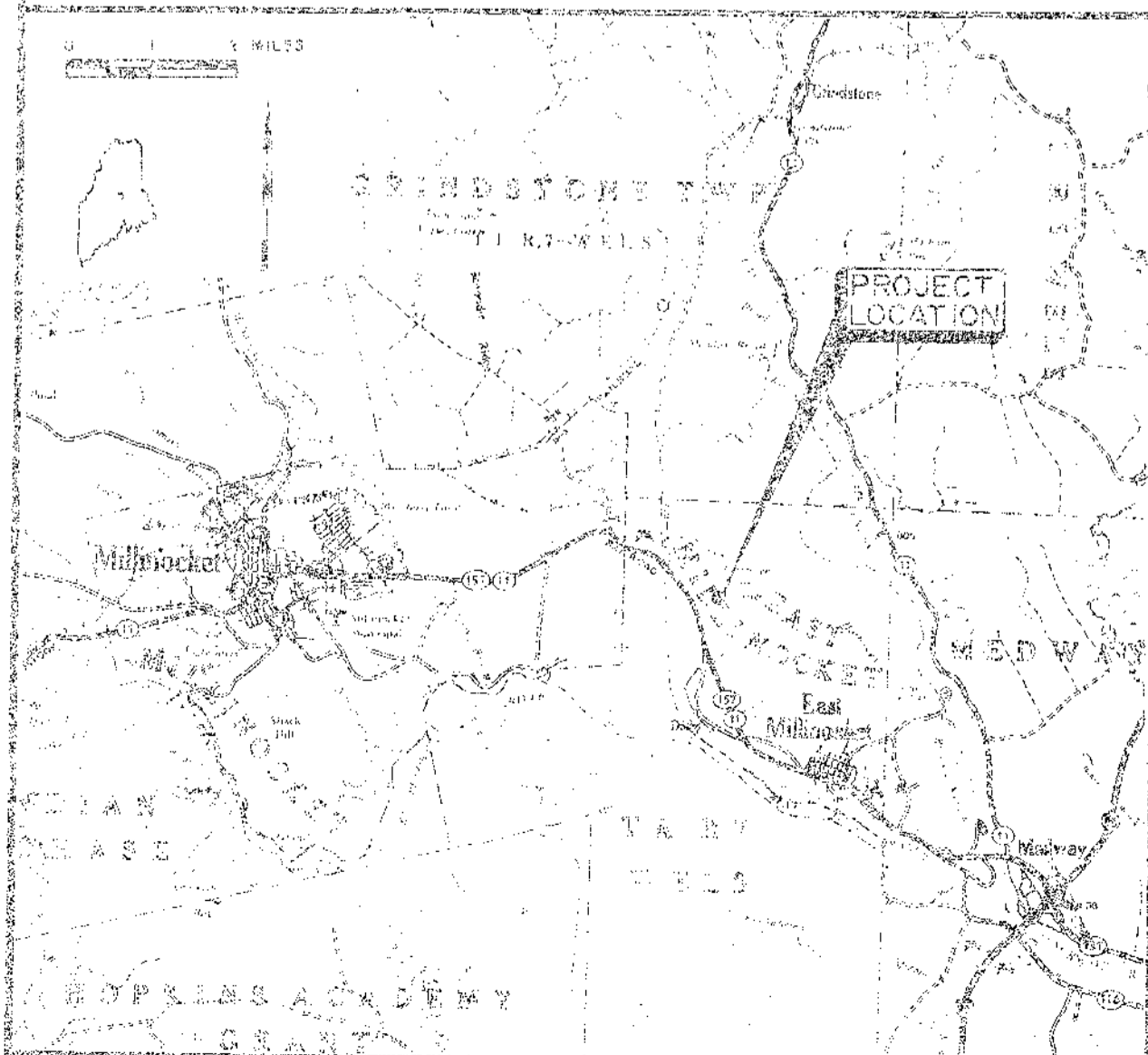
GREAT NORTHERN PAPER CO.

MILLINOCKET, MAINE

DOLBY III LANDFILL


CELL 5 CONSTRUCTION

SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19086
2	SYMBOLS & ABBREVIATIONS	YB-19087
3	SITE LOCATION PLAN SHEET 1 OF 2	YB-19088
4	SITE LOCATION PLAN SHEET 2 OF 2	YB-19088
5	SITE DEVELOPMENT PLAN	YB-19089
6	SECTIONS & DETAILS	YB-19090
7	FINAL GRADING PLAN	YB-19091 (N.I.T.C.)



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990

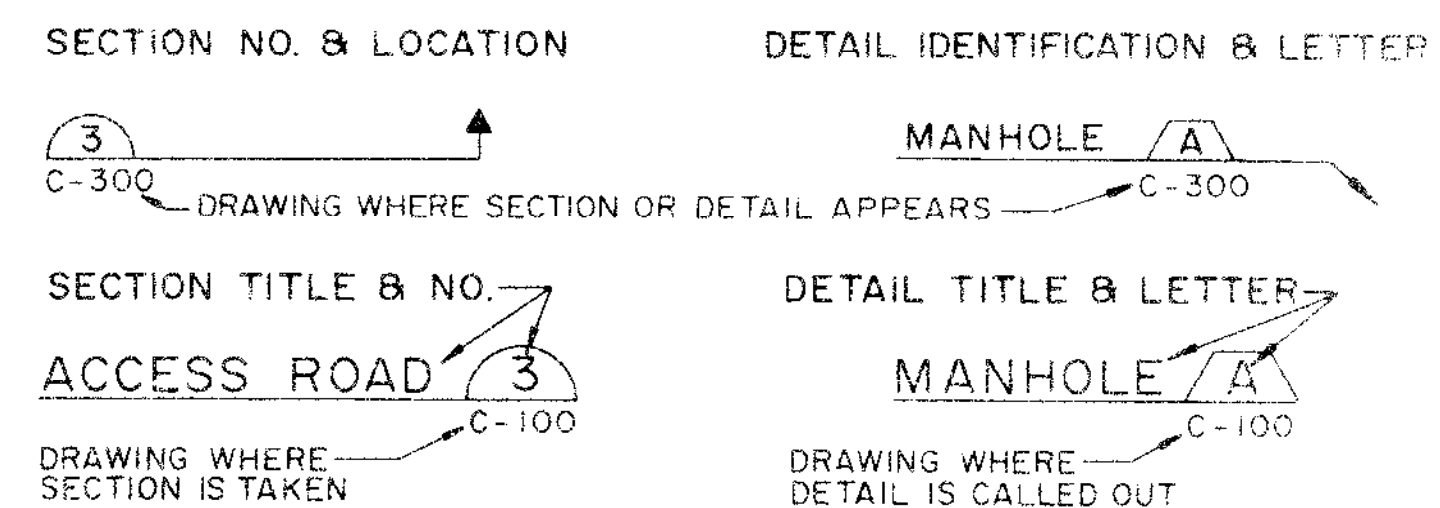


 <p>Great Northern Paper a company of Great Northern Nekoosa Corporation</p>	<p>CENTRAL ENGINEERING DEPARTMENT</p> <hr/> <p>DOLBY III LANDFILL CELL 5 COVER SHEET</p> <hr/> <p>DWG. NO. 94960 ENG. REG. NO. _____ FILE NO. 2-092-4103.2082</p>
	<p>YB-19086</p>

SYMBOLS

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
	NORTH ARROW (TRUE)		STONE WALL		TEST PIT & NUMBER
	NORTH ARROW (MAGNETIC)		DRAINAGE COURSES W/DIRECTION & DITCH		CLEAN OUT STRUCTURES
	NORTH ARROW (PLAN NORTH)		EDGE OF WATER		MANHOLE
	CONTOUR LINES		WATER ELEVATION (GROUND OR SURFACE)		WATER VALVE
	SPOT ELEVATION (GRADE)		ROCK OUTCROP OR LEDGE		HYDRANT
	EXISTING GROUND (PROFILES & SECTIONS)		FENCE LINE (WOOD)		TELEPHONE OR POWER POLE
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT		FENCE LINE (WIRE)		CATCH BASIN
	CONSTRUCTION BASELINE		RETAINING WALL (TYPE)		UNDERGROUND GAS MAIN & SIZE
	PROPERTY OR DEED LINE (NOT SURVEYED)		GUARD RAIL		UNDERGROUND TELEPHONE CABLE / CONDUIT
	PROPERTY LINE W/BEARING & DISTANCE		BUILDING & STRUCTURES		UNDERGROUND ELECTRIC CABLE / CONDUIT
	ROADS, EASEMENTS OR RIGHT OF WAY LINE		STEPS W/TYPE (WOOD/CONCRETE)		OVERHEAD ELECTRICAL LINE
	BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		SLOPE RATIO (HORIZONTAL TO VERTICAL)		SANITARY SEWER, SIZE & TYPE
	SURVEY MONUMENT		SLOPES (W/SLOPE RATIO)		FORCE MAIN, SIZE & TYPE
	SURVEY IRON (FOUND)		EDGE OF TRAVELED WAY (TYPE)		WATER MAIN, SIZE & TYPE
	DRILL HOLE, PK OR STAKE		CUT OR FILL LINE		STORM DRAIN, SIZE & TYPE
	WOODS OR BRUSH LINE		CONSTRUCTION LIMIT LINE		UNDERDRAIN, SIZE & TYPE
	INDIVIDUAL TREE (DECIDUOUS)		BITUMINOUS PAVEMENT		CULVERT, SIZE & TYPE
	INDIVIDUAL TREE (CONIFEROUS)		GRAVEL ROAD		RAILROAD
	TREE, TO BE REMOVED		CONCRETE		SILTATION FENCE
	MARSH AREA		TEST BORING, MONITORING WELL OR PROBE & NUMBER		

VIEW MARKERS & IDENTIFICATION



ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	CEM. LIN.	CEMENT LINED	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONSTR	CONSTRUCTION	EXIST	EXISTING	LB	POUND	P.O.T.	POINT OF TANGENT	W	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LIN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPTH	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DUCTILE IRON	FT OR'	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIAM	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIA OR Ø	DIA	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIM	DIMENSION	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DIST	DISTANCE	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APP'D	JOB NO.
									9019

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

ORIN	RCL	5/90
CHKD	SKR	5/90
APP'D	BAP	5/90
ISSUE CODE		
B-BIDS		
SCALE		

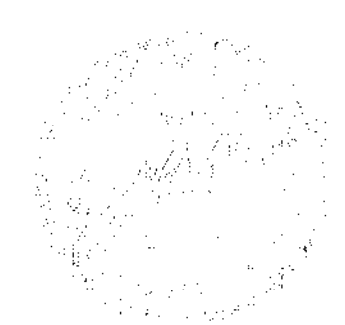
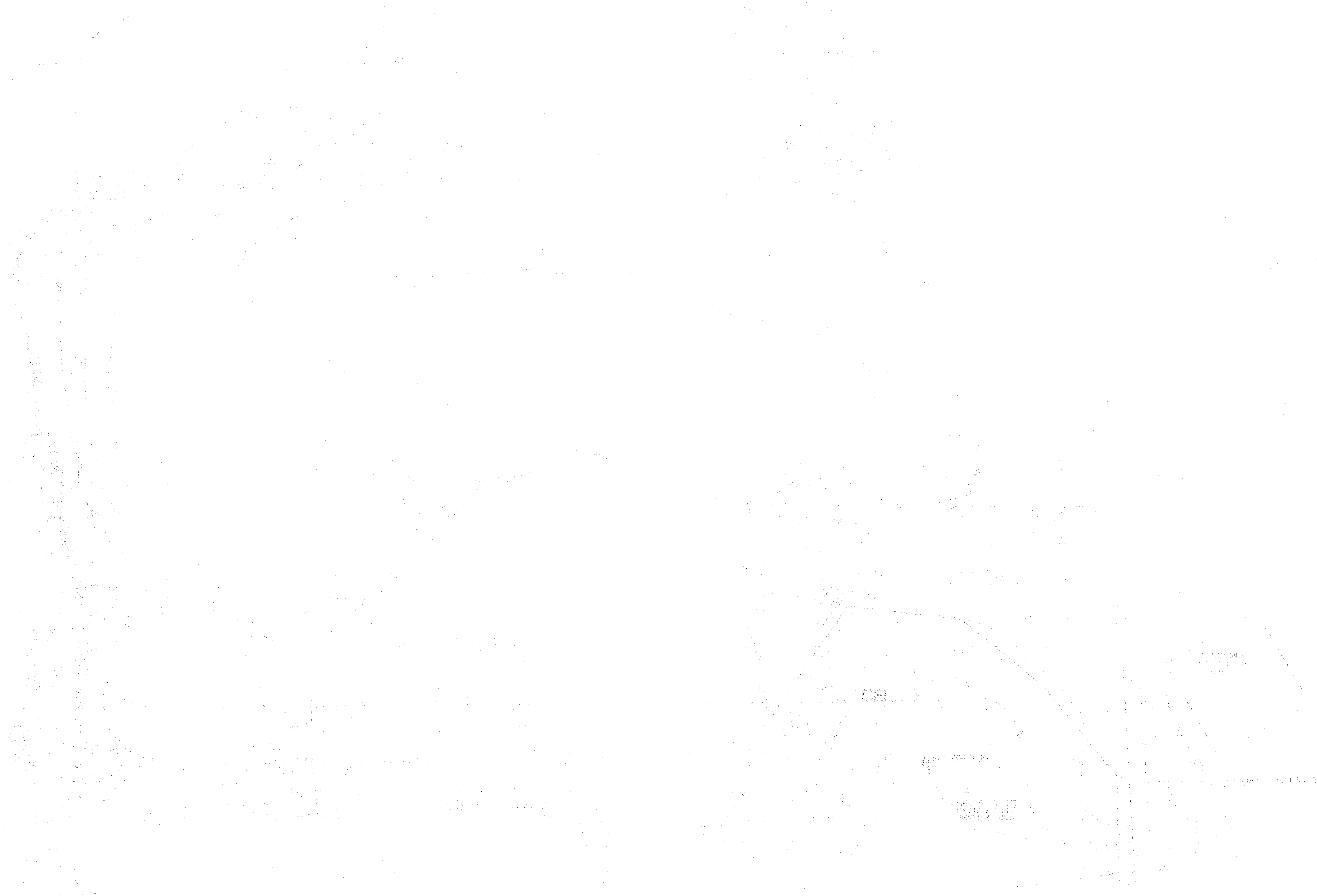


CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
SYMBOLS & ABBREVIATIONS

JOB NO. 94545
ENG. REQ. NO. 2-092-4703.7082
FILE NO. 2-092-4703.7082

YB-19087



1. The site plan is based on the data provided by the client and is not to be used for any other purpose without the written consent of the engineer.

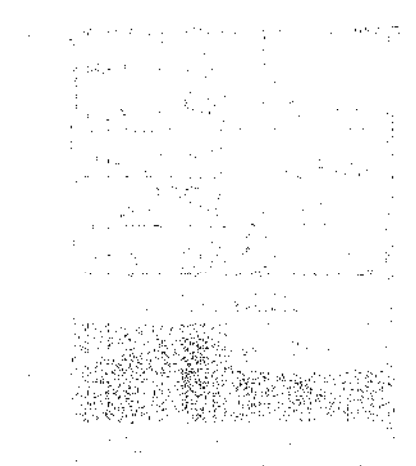
2. The engineer is not responsible for the accuracy of the data provided by the client.

3. The engineer is not responsible for the accuracy of the data provided by the client.

4. The engineer is not responsible for the accuracy of the data provided by the client.

5. The engineer is not responsible for the accuracy of the data provided by the client.

CIVIL ENGINEERING, INC.
 12345 MAIN ST.
 SUITE 100
 WASHINGTON, D.C. 20001



I hereby certify that the above is a true and correct copy of the original as shown to me.

 Date: _____

1. The site plan is based on the data provided by the client and is not to be used for any other purpose without the written consent of the engineer.

2. The engineer is not responsible for the accuracy of the data provided by the client.

3. The engineer is not responsible for the accuracy of the data provided by the client.

4. The engineer is not responsible for the accuracy of the data provided by the client.

5. The engineer is not responsible for the accuracy of the data provided by the client.

2

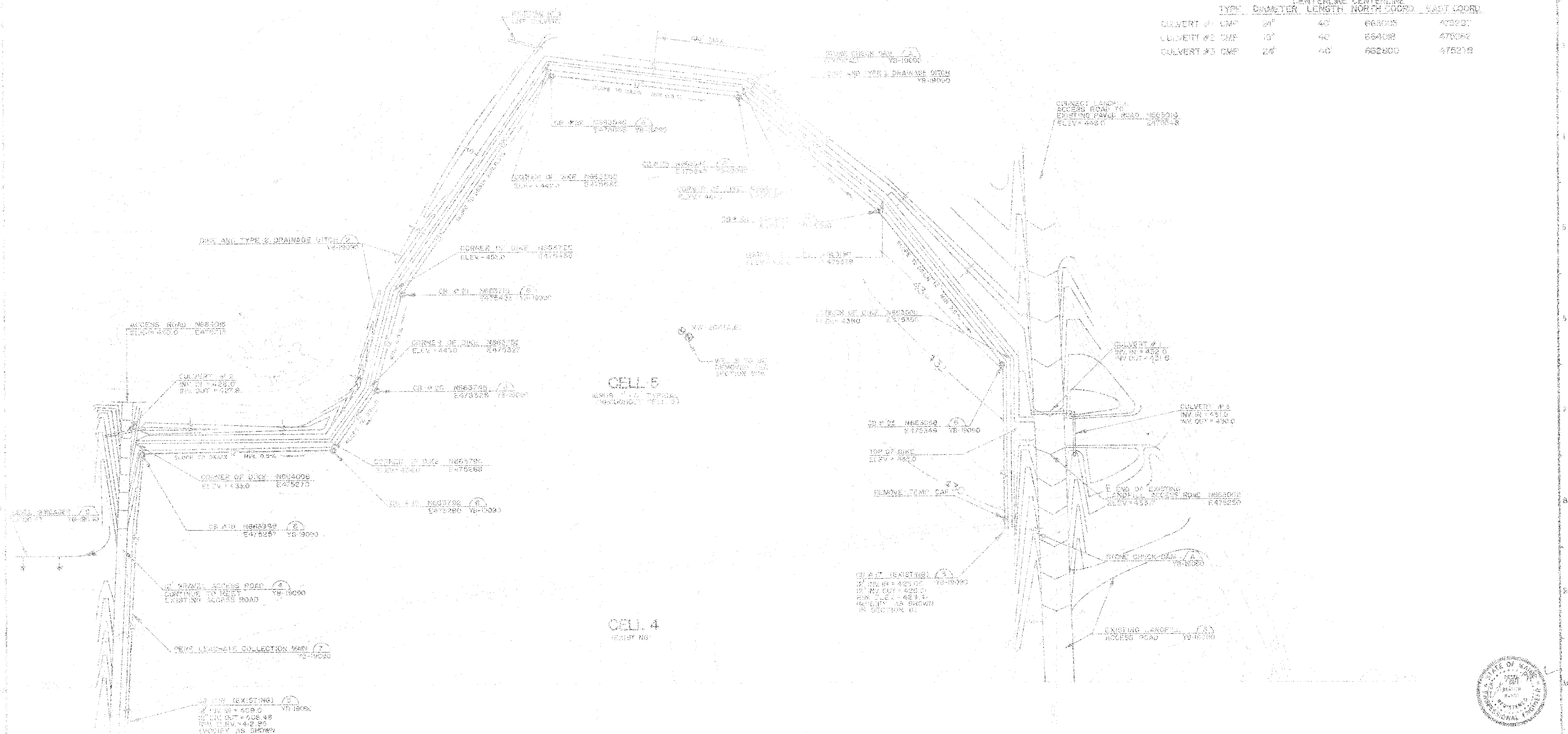
OPERATION NOTES

CELL 4

- REMOVE MINIMUM 15 FT LONG DIKE SECTIONS SEPARATING CB#19 AND CB#21 FROM CELL 6.

CULVERT SCHEDULE

TYPE	DIAMETER	MIDPOINT CENTERLINE LENGTH	MIDPOINT CENTERLINE NORTH COORD.	EAST COORD.
CULVERT #1 CMP	24"	40'	668015	475207
CULVERT #2 CMP	18"	40'	668018	475202
CULVERT #3 CMP	24"	40'	668000	475218

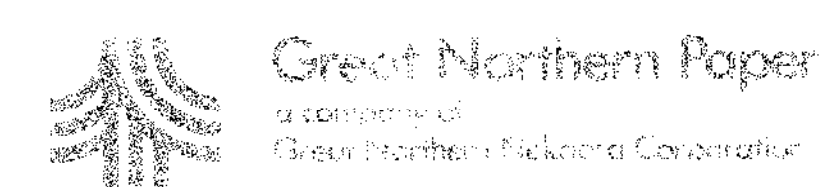


YR. 1984	DOLBY III LANDFILL, CELL 5, SITE DEVELOPMENT PLAN	SCALE: AS SHOWN	DATE: 10/19/84
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DEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DATE: 10/19/84	SCALE: 1" = 50'
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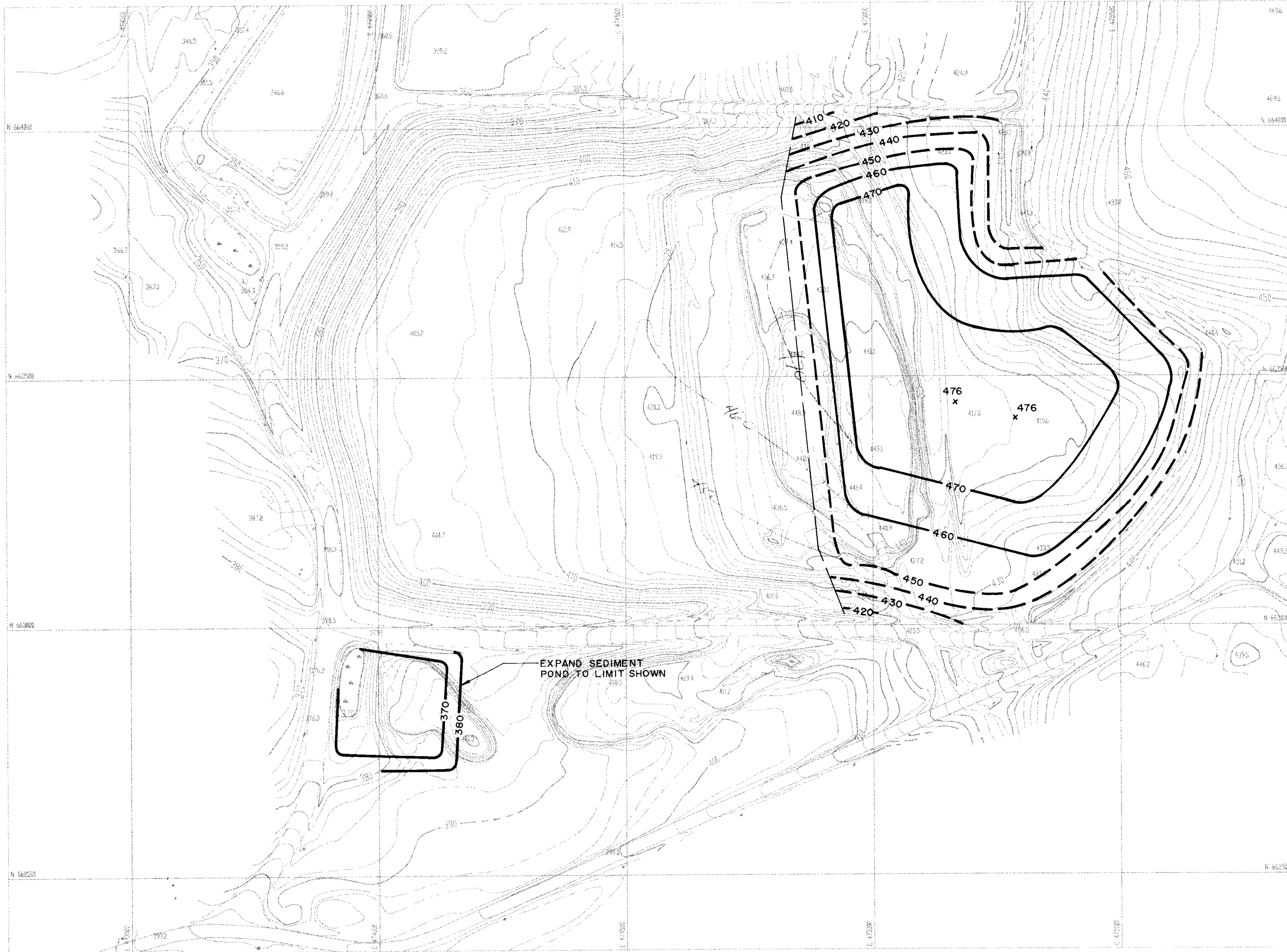


CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
SITE DEVELOPMENT PLAN

JOB NO. 9019
FILE NO. 8-282-3705/7050
YB-19089





LEGEND
 — 470 — CELL 6 FINAL GRADES
 - - - 450 - - - CELL 5 FINAL GRADES

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				8-5-91	SUBMITTED TO MDEP				

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

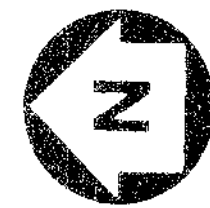
DRN	
CKD	7/91
CKD	
CKD	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL.T.O.	C - CONST
SCALE 1" = 100'	



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
 DOLBY III LANDFILL
 CELL 6
 FINAL GRADING PLAN

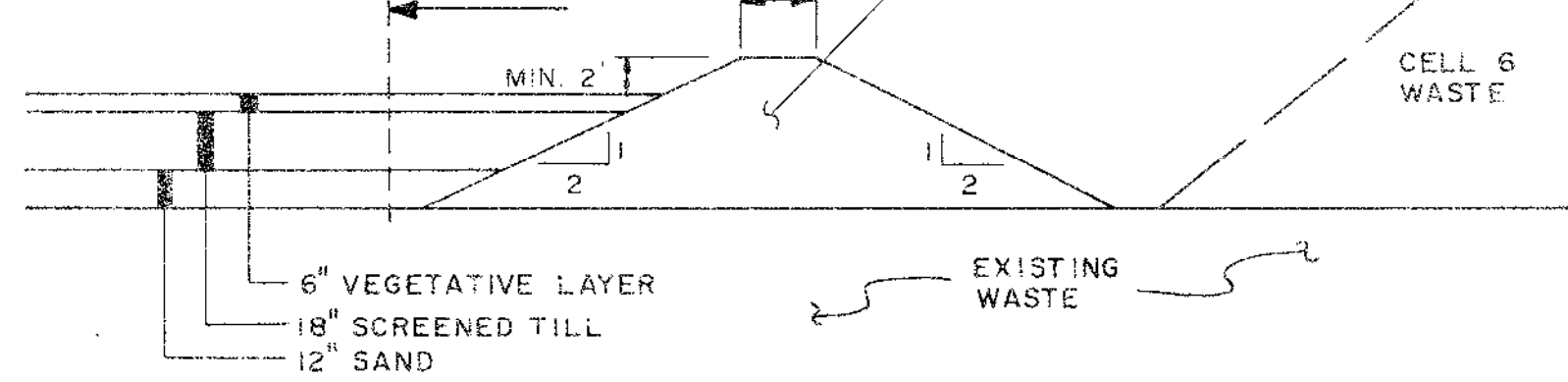
JOB NO. _____
 ENG. REG. NO. _____
 FILE NO. 2-092-4703, 7082

YB-20023

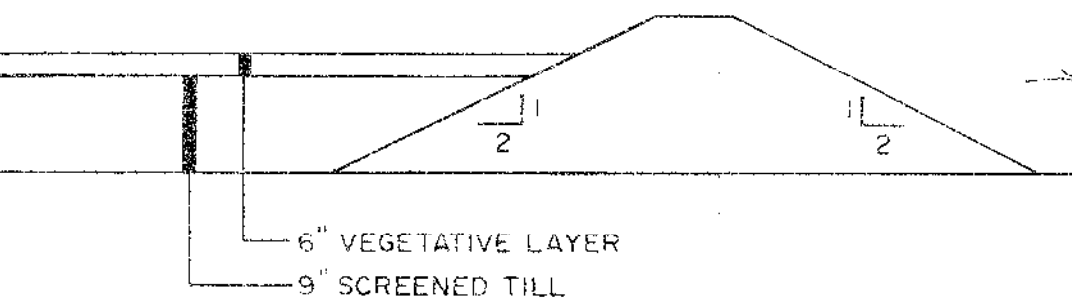


FORM BERM OF COMPACTED SATISFACTORY EXCAVATED MAT'L OR COMMON BORROW (M.D.O.T. SPEC. 703.1B)

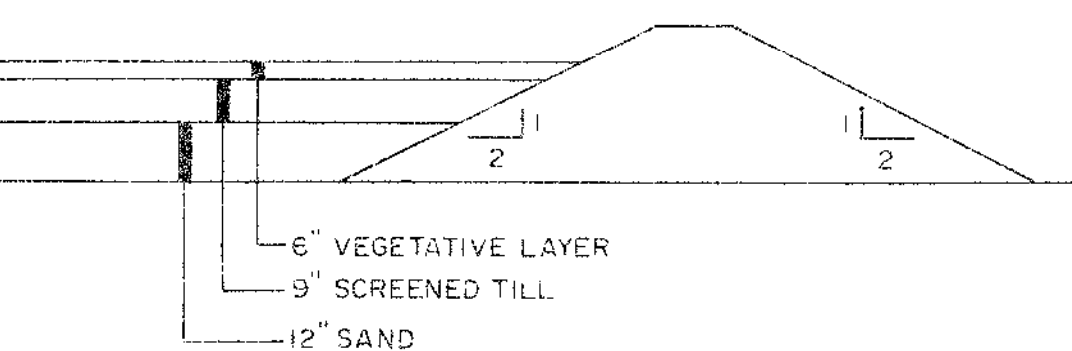
REPLACE DISTURBED AREAS W/ LAYERS AS SHOWN



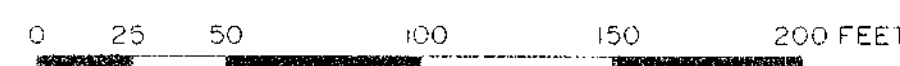
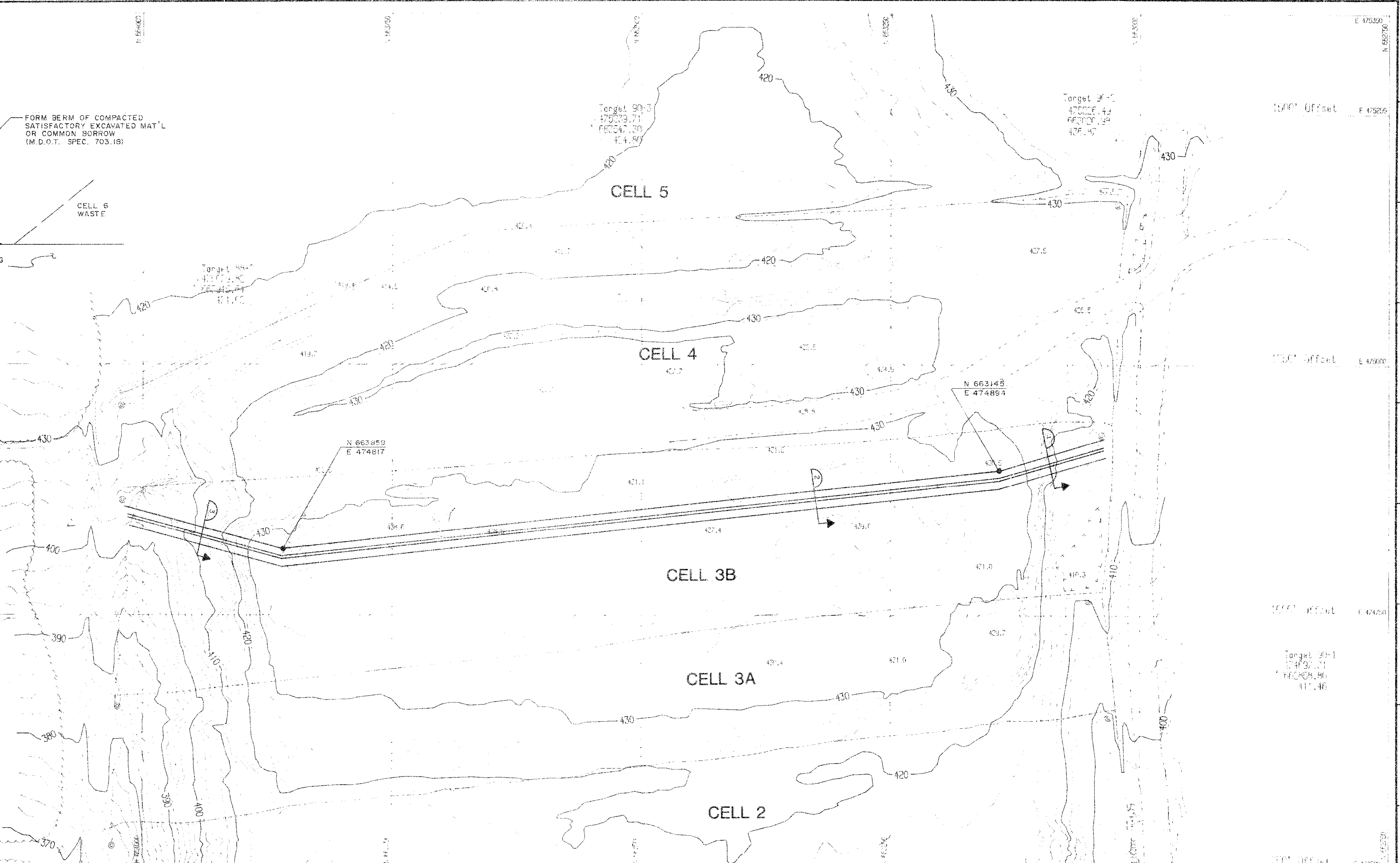
DIKE SECTION 1
N.T.S.



DIKE SECTION 2
N.T.S.



DIKE SECTION 3
N.T.S.



NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING ASBESTOS HANDLING.
2. CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL QUANTITIES

BORROW 1500 CY
SEEDING 20 UNITS

NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
1	1-8-92	RECORD DRAWING				
2	8-5-91	SUBMITTED TO MDEP				
3	4/18/90					
4						
5						
6						
7						
8						
9						
10						
11						

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

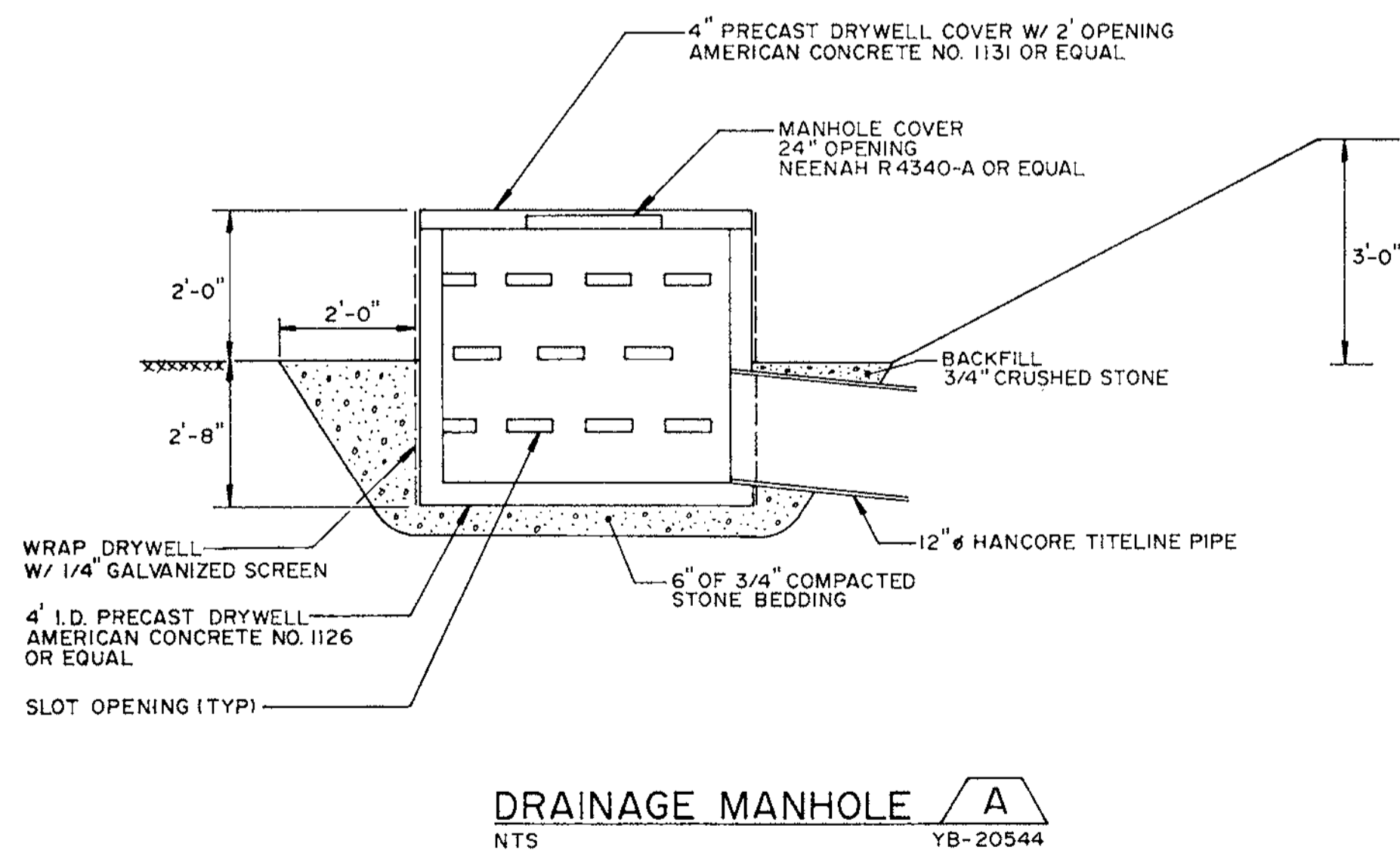
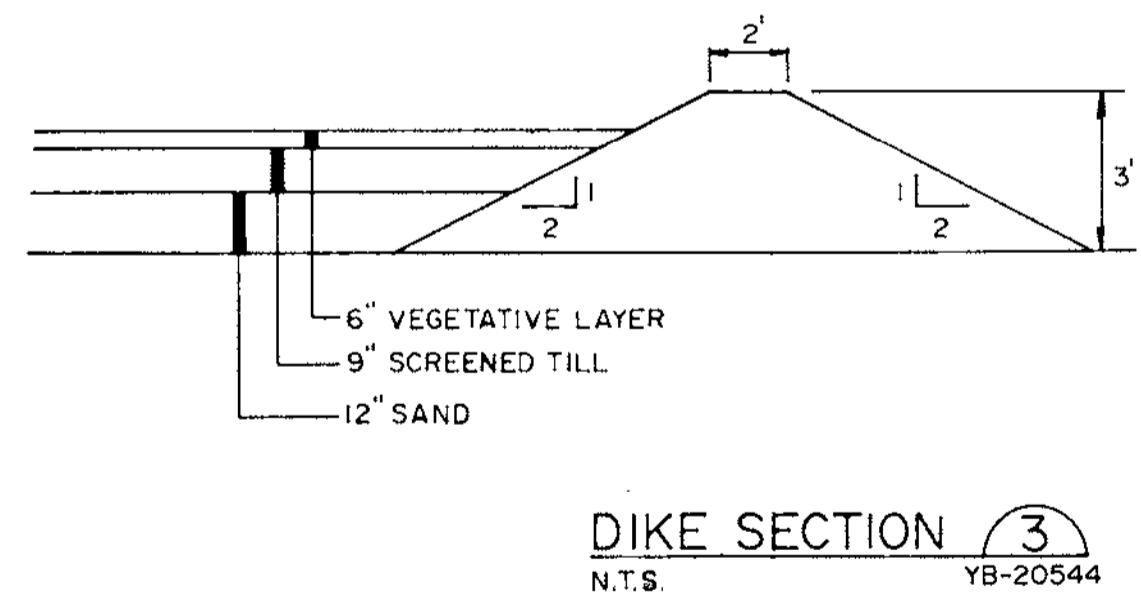
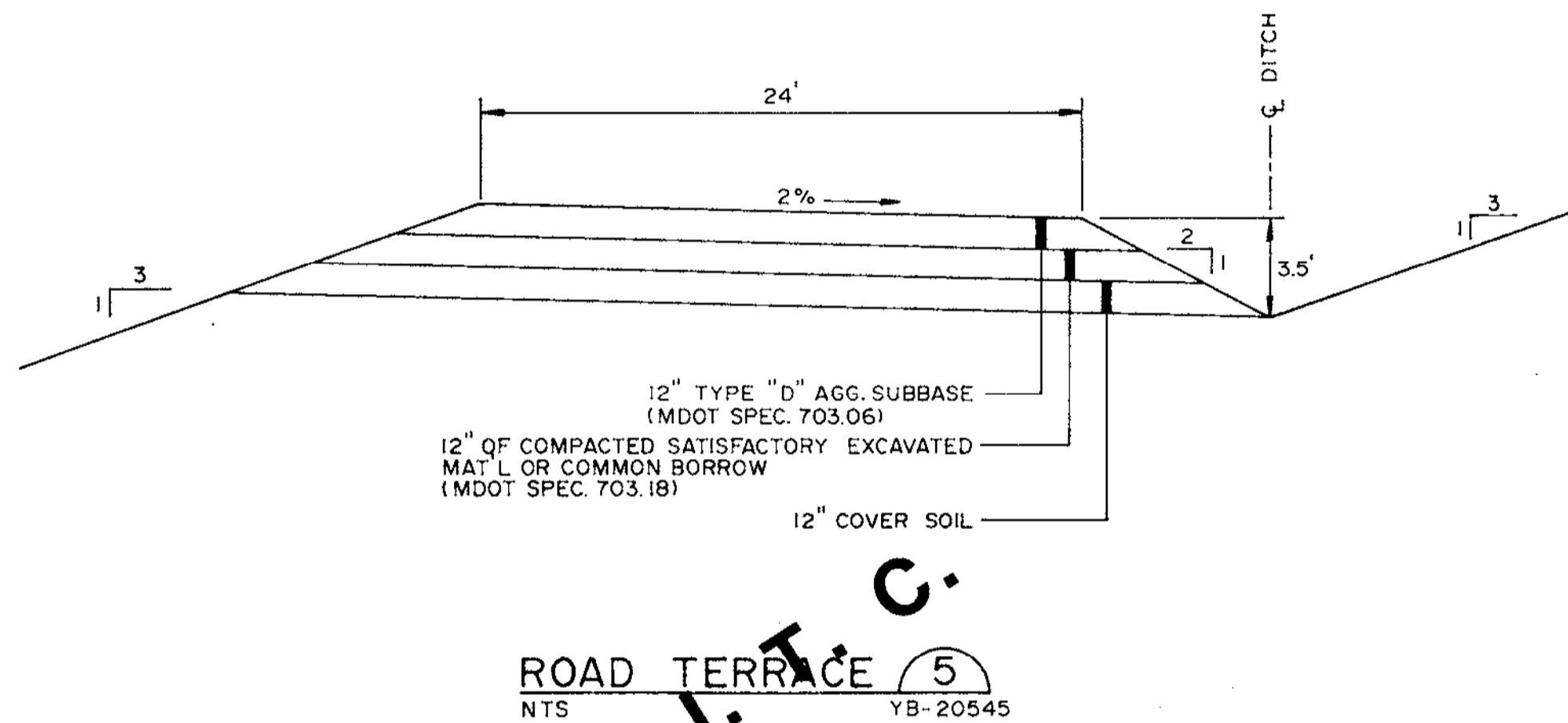
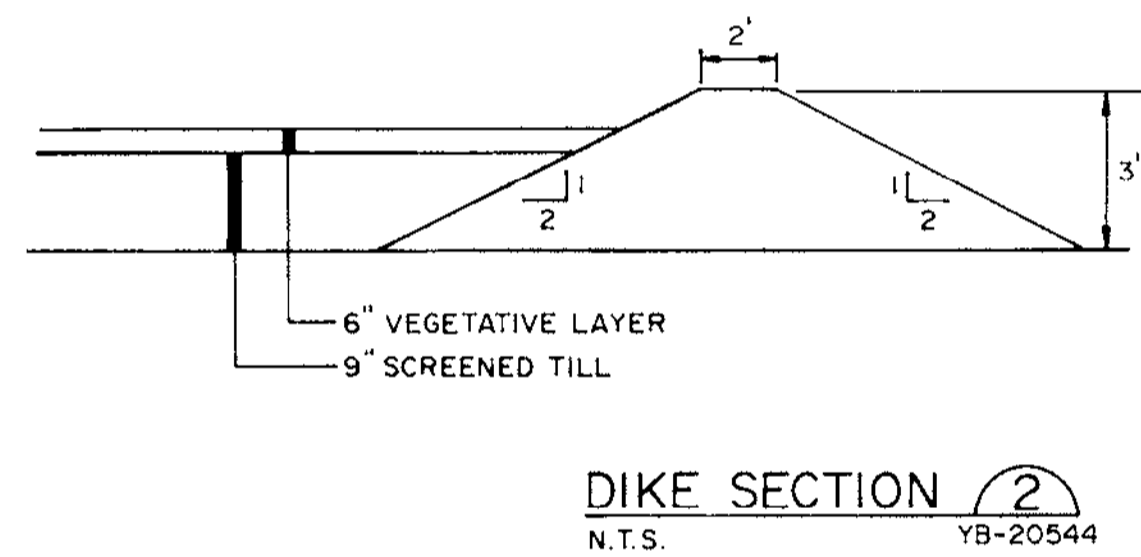
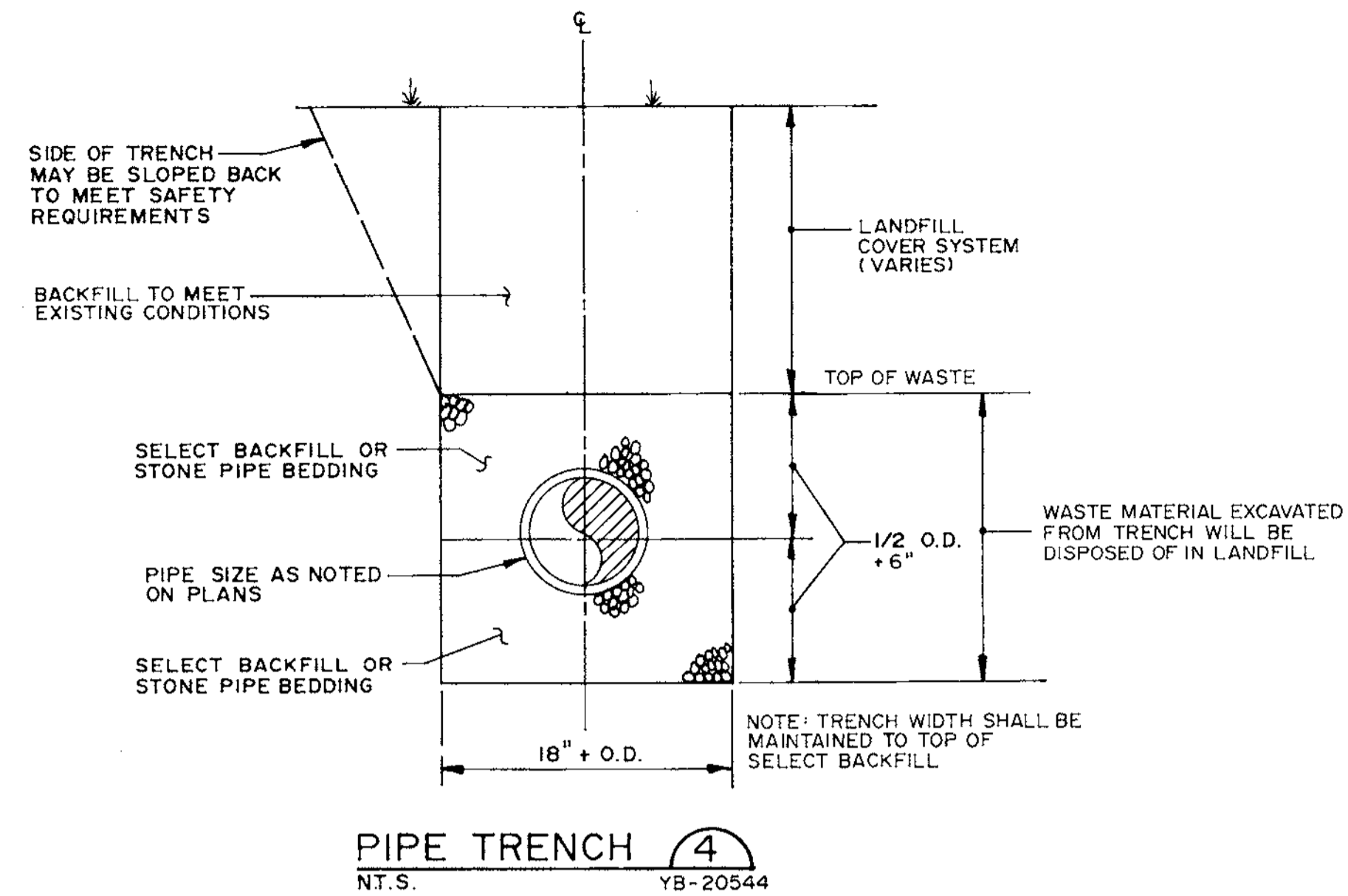
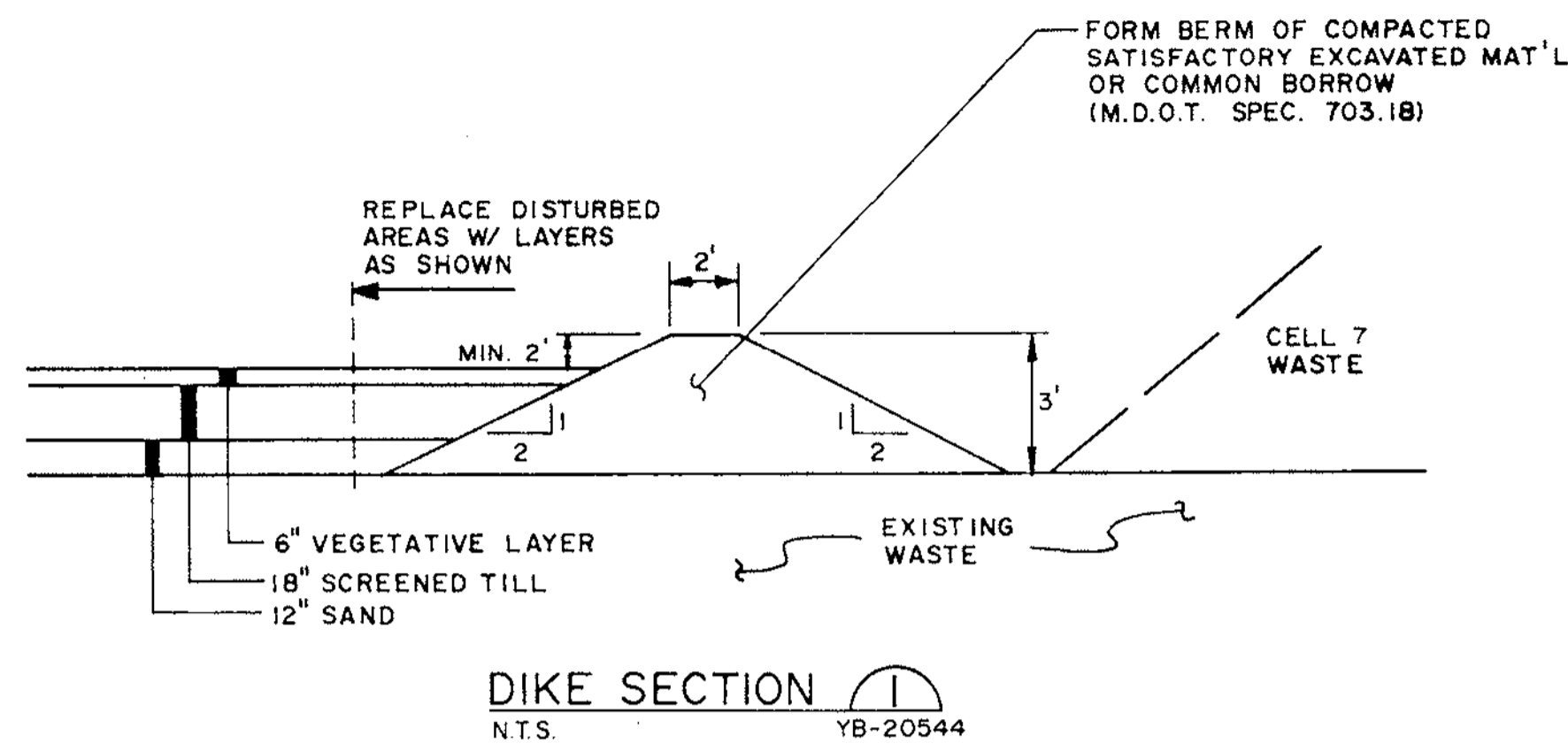
DRN	
CKD	7/91 <i>AMC</i>
CRG	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL.Y.D.C - CONST	
SCALE AS SHOWN	



CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY III LANDFILL
CELL 6
SITE DEVELOPMENT PLAN

JOB NO. _____
ENG. REG. NO. _____
FILE NO. 2-092-4703, 7062

YB-20024



GENERAL NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
3. EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	≤ 5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM CELL 7 AREA PRIOR TO PLACING THE DRAINAGE OR EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIALS -

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:		PERCENT
TALL FESCUE		59%
RED FESCUE		25%
RED TOP		5%
LADINO CLOVER		3%
ANNUAL RYEGRASS		8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

MATERIAL QUANTITIES:

GRUBBING	17,000 CY
DIKE SOIL	1,600 CY
12" DIA. PIPE	355 LF
3/4" STONE	74 CY
DRYWELLS WITH COVERS, GRATES & FRAMES	2

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				1/93	RECORD DRAWING				JOB NO. 92051

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	PAF	9-92
CKD	AHC	9-92
CKD		
CONR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - M.T.L.O.C. CONST		
SCALE N.T.S.		



GREAT NORTHERN PAPER, INC.

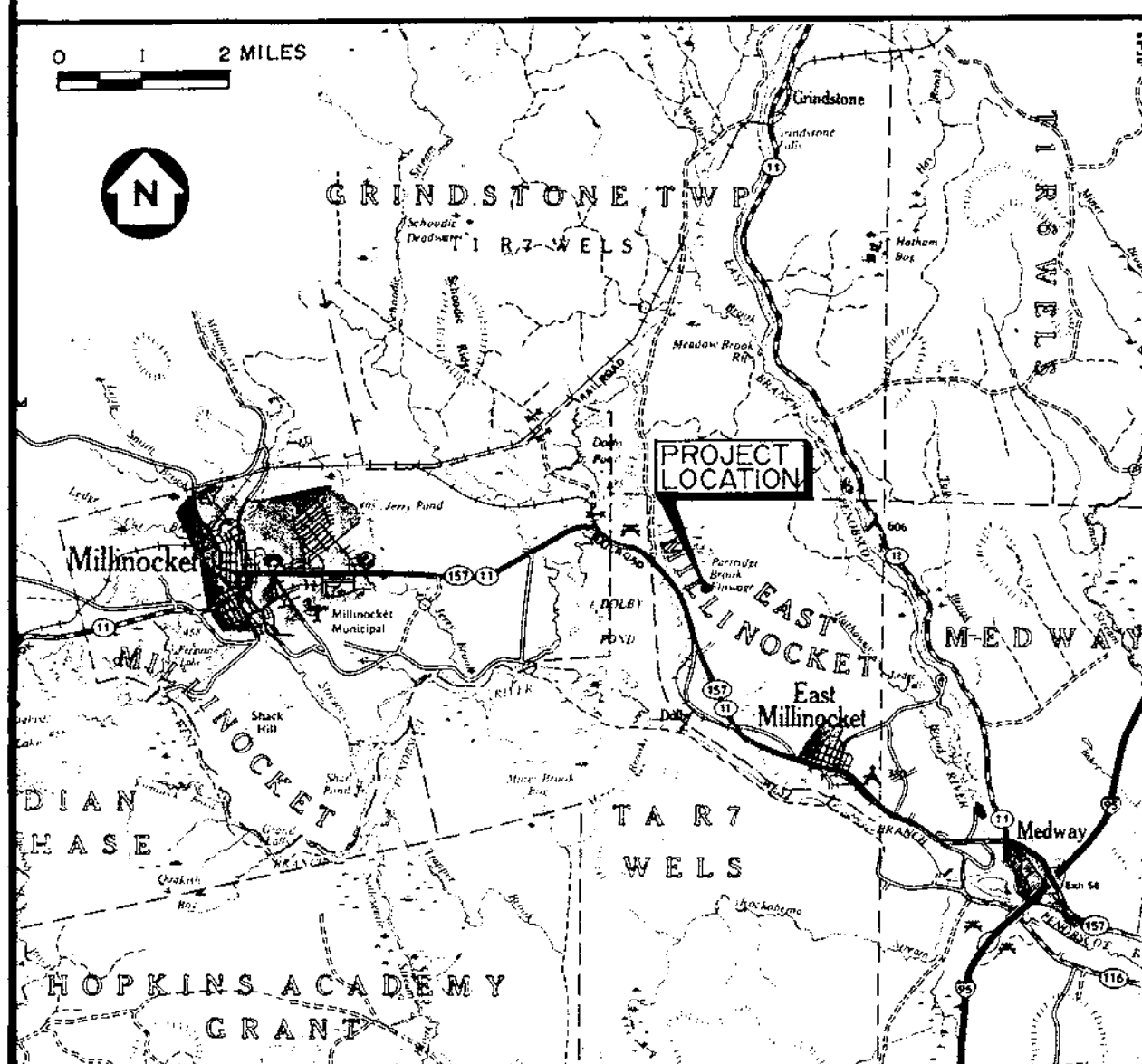
CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION
DOLBY III LANDFILL
CELL 7
DETAILS, SECTIONS &
MATERIAL SPECIFICATIONS

JOB NO. _____
ENG. REG. NO. 95-6249
FILE NO. 2-092-4703,7082

Y B-20546


GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY III LANDFILL CELL 6 CLOSURE, CELLS 8 & 9 CONSTRUCTION

SHT NO.	TITLE	DWG NO.
1	COVER SHEET	YB-21000
2	SYMBOLS & ABBREVIATIONS	YB-21001
3	SITE LOCATION PLAN	YB-21002
4	CELL 8 - SITE DEVELOPMENT PLAN	YB-21003
5	CELL 9 - SITE DEVELOPMENT PLAN	YB-21004
6	CELLS 6 & 8 - FINAL GRADING PLAN	YB-21005
7	SECTIONS & DETAILS	YB-21006



**SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1993**



 BOWATER <small>GREAT NORTHERN PAPER, INC.</small>	<small>CENTRAL ENGINEERING DEPARTMENT EAST OPERATION</small> DOLBY III LANDFILL CELL 6 CLOSURE, CELLS 8 & 9 CONSTRUCTION COVER SHEET
<small>JOB NO. _____ ENG. REG. NO. _____ FILE NO. 2-092-4703,7082</small>	YB-21000

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		NORTH ARROW (TRUE)			STONE WALL
		NORTH ARROW (MAGNETIC)			DRAINAGE COURSES W/DIRECTION & DITCH
		NORTH ARROW (PLAN NORTH)			EDGE OF WATER
		CONTOUR LINES			WATER ELEVATION (GROUND OR SURFACE)
		SPOT ELEVATION (GRADE)			ROCK OUTCROP OR LEDGE
		EXISTING GROUND (PROFILES & SECTIONS)			FENCE LINE (WOOD)
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT			FENCE LINE (WIRE)
		CONSTRUCTION BASELINE			RETAINING WALL (TYPE)
		PROPERTY OR DEED LINE (NOT SURVEYED)			GUARD RAIL
		PROPERTY LINE W/BEARING & DISTANCE			BUILDING & STRUCTURES
		ROADS, EASEMENTS OR RIGHT OF WAY LINE			STEPS W/TYPE (WOOD/CONCRETE)
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)			SLOPE RATIO (HORIZONTAL TO VERTICAL)
		SURVEY MONUMENT			SLOPES (W/SLOPE RATIO)
		SURVEY IRON (FOUND)			EDGE OF TRAVELED WAY (TYPE)
		DRILL HOLE, PK OR STAKE			CUT OR FILL LINE
		WOODS OR BRUSH LINE			CONSTRUCTION LIMIT LINE
		INDIVIDUAL TREE (DECIDUOUS)			BITUMINOUS PAVEMENT
		INDIVIDUAL TREE (CONIFEROUS)			GRAVEL ROAD
		TREE, TO BE REMOVED			CONCRETE
		MARSH AREA			TEST BORING, MONITORING WELL OR PROBE & NUMBER

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	C.E.M. LIN.	CEMENT LINED	EA	EACH	HP	HIGH DENSITY POLYETHYLENE	N.I.S.	NOW TO SCALE	STA	STATION
AGG	AGGREGATE	CF	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONST	CONSTRUCTION CONTRACTOR	EXIST	EXISTING	LB	POUND	P.T.	POINT OF TANGENT	W/	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPARTMENT	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DUCTILE IRON	FT OR'	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

GENERAL NOTES:

- THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
- CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
- EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	≤5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM CELL 8 AREA PRIOR TO PLACING THE DRAINAGE OR EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIALS:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

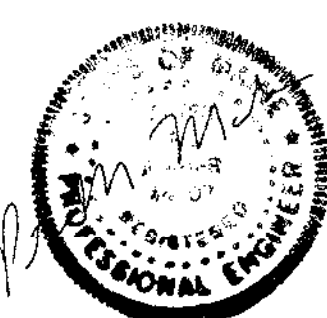
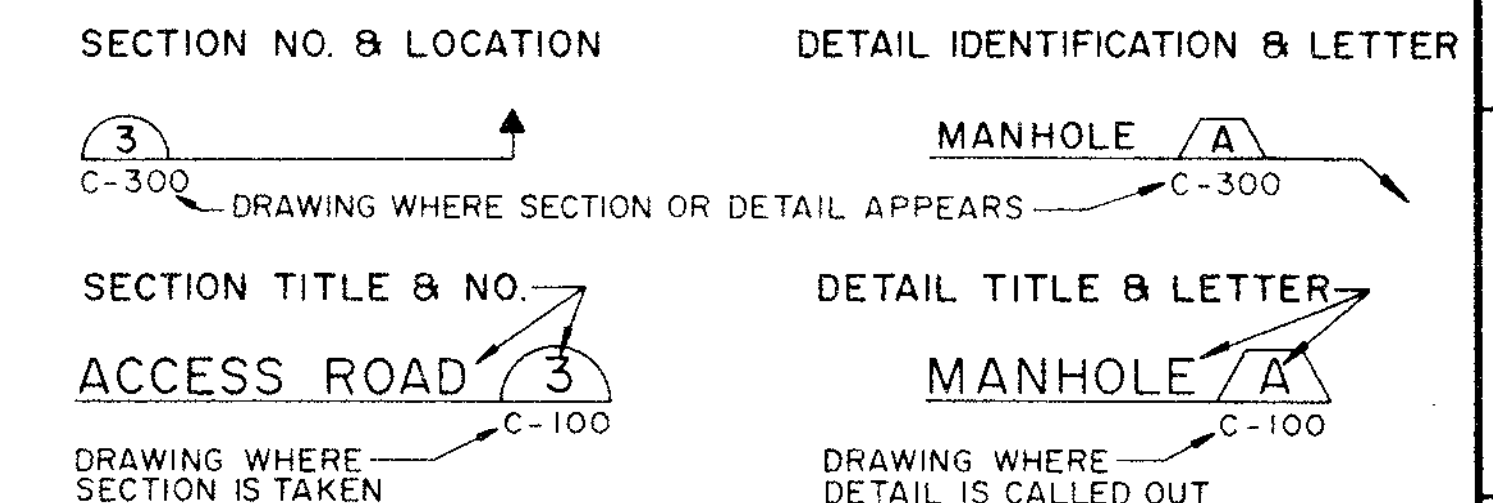
SEED:		
TALL FESCUE		59%
RED FESCUE		25%
RED TOP		5%
LADINO CLOVER		3%
ANNUAL RYEGRASS		8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION



CHANGING NO.	REFERENCE DRAWING TITLE	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		8-4-93	ISSUED FOR BID				93028

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

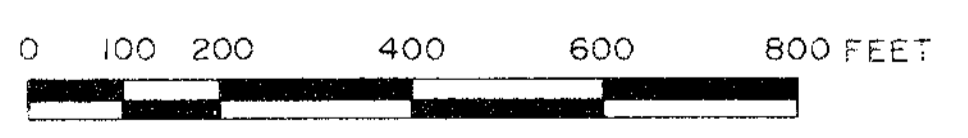
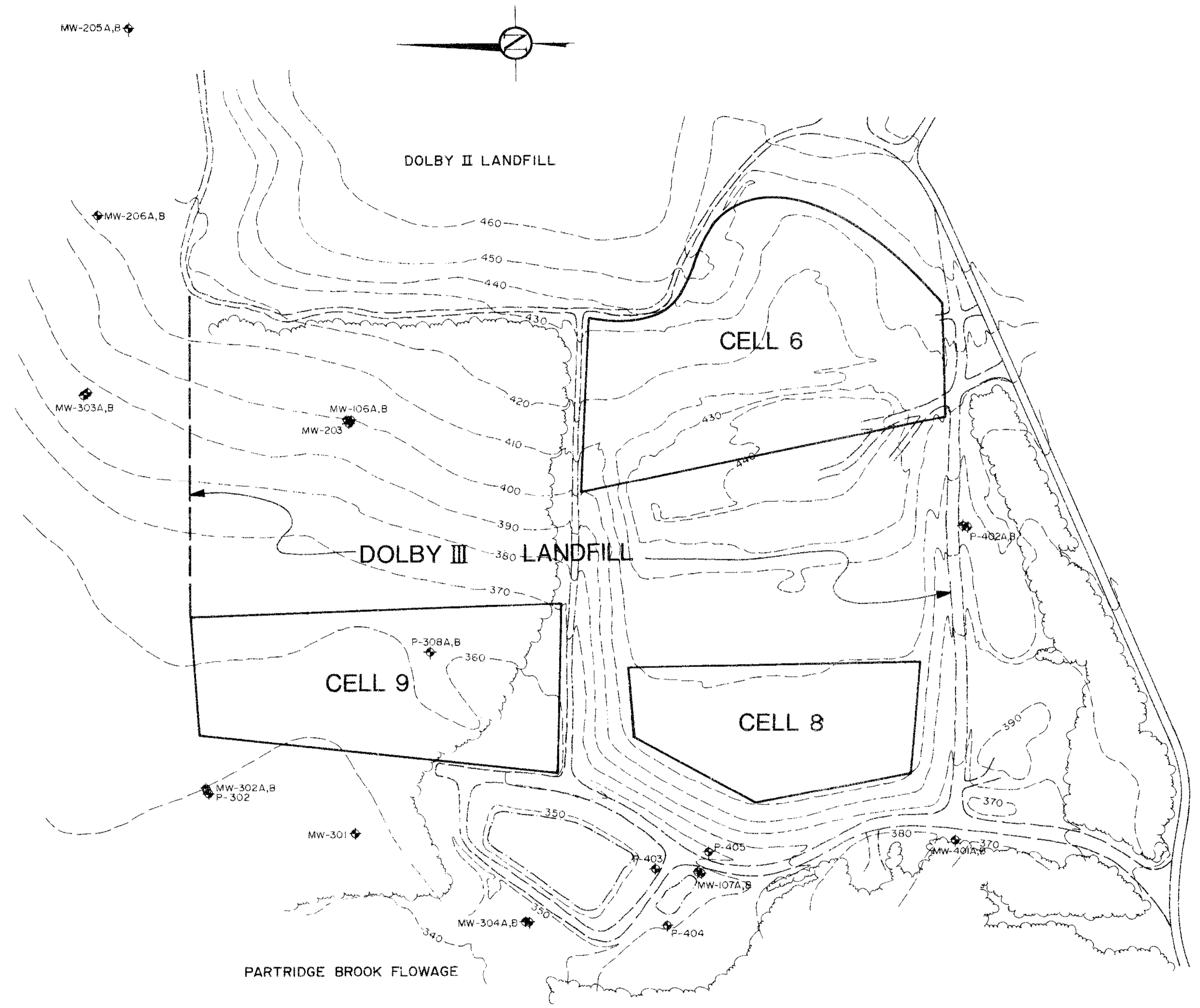
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CKD	AMC	6/93
CKD		
CKD		
APPVD		
ISSUE CODE		
B - BIDS		
SCALE		



CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION
DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION
SYMBOLS & ABBREVIATIONS

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703,7082

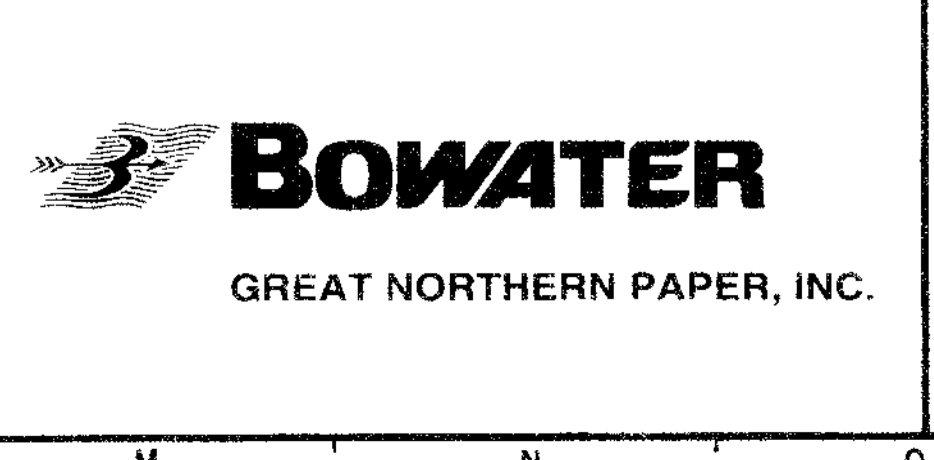
YB-21001



DRAWING NO.	REFERENCE DRAWING TITLE	CODE NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
		B	8-4-93	ISSUED FOR BID	4HC			JOB NO. 9302B

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

DRN	PAF	6/93
CKD	4HC	6/93
CDR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL T.O.	C - CONST	
SCALE 1" = 200'		



CENTRAL ENGINEERING DEPARTMENT
 EAST OPERATION
 DOLBY III LANDFILL
 CELL 6 CLOSURE,
 CELLS 8 & 9 CONSTRUCTION
 SITE LOCATION PLAN

JOB NO. _____
 ENG. REQ. NO. _____
 FILE NO. 2-092-4703.7062

YB-21002



E 474500

CELL 7

EXISTING 12" PIPE

EXISTING 12" PIPE

CB #1

12" CB #9

CB #8

YB-21006

YB-21006

DRAINAGE MANHOLE
INV. OUT 397.2
RIM 400.9

YB-21006

CELL 8
REMOVE 15" OF COVER SOIL
(5.6 ACRES)

DRAINAGE MANHOLE
INV. OUT 398.7
RIM 402.4

YB-21006

22-1/2° ELBOW
TURN TO MATCH SLOPE

YB-21006

12" HANCORE TITELINE PIPE
(TYP)

YB-21006

CB #2

12" PIPE INSTALLED
INTO EXISTING CB #3

DRAINAGE MANHOLE
INV. OUT 396.4
RIM 400.1

YB-21006

22-1/2° ELBOW
TURN TO MATCH SLOPE

12" PIPE INSTALLED INTO
EXISTING CB #7

E 474000

CONTAINMENT DIKE

22-1/2° ELBOW
TURN TO MATCH SLOPE

CB # 6A0

CB #3

12" PIPE INSTALLED
INTO EXISTING CB #5

CB #5

CB #6

CB #4

ACCESS ROAD

N 664000

N 663500

0 25 50 100 150 200 FEET



COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.
OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS
FROM AERIAL PHOTOGRAPHS DATED 8/9/90

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	PAF	6-93
CHK	AMC	6-93
CKD		
CORR		
APPR		
ISSUE CODE		
P	PRELIM	B-BUS
M	MYL	T.D.C. CONST
SCALE 1" = 50'		



GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

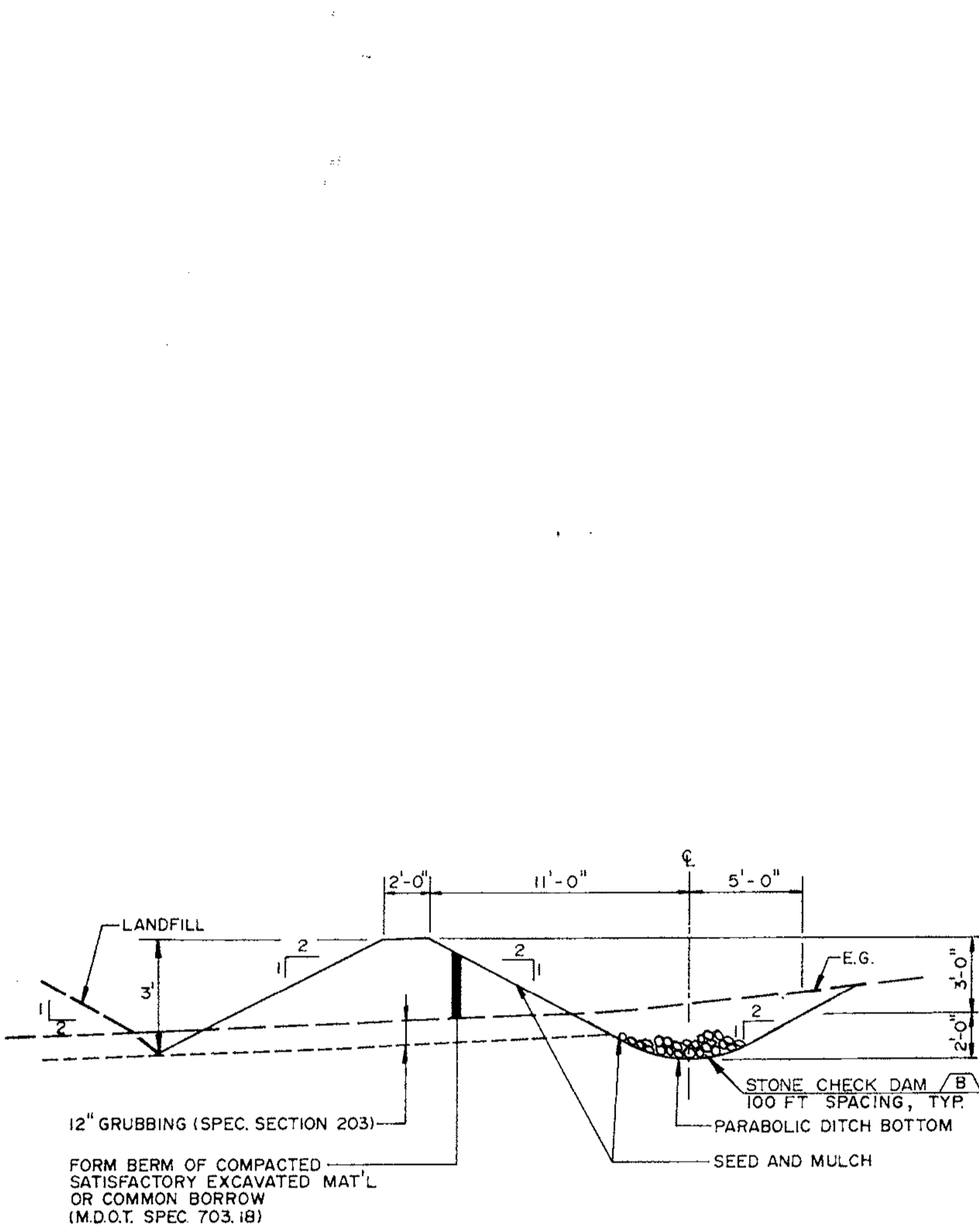
DOLBY III LANDFILL
CELL 8
SITE DEVELOPMENT PLAN

YB-21003

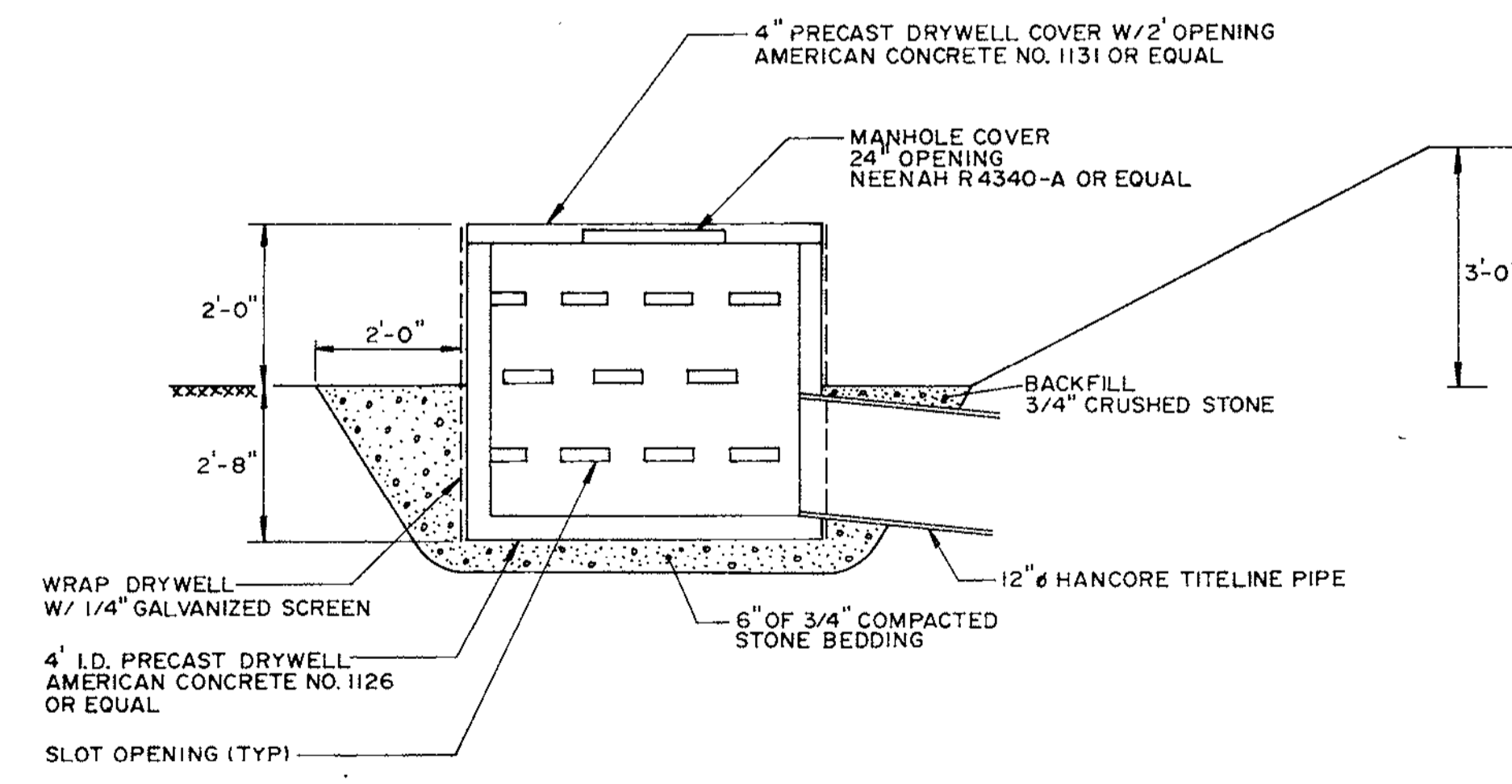
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		B	I	8-4-93	ISSUED FOR BID	AMC			93028
				8-18-94	RECORD DRAWING/CELL 8 CONSTRUCTION	CJB			

JOB NO. 93028

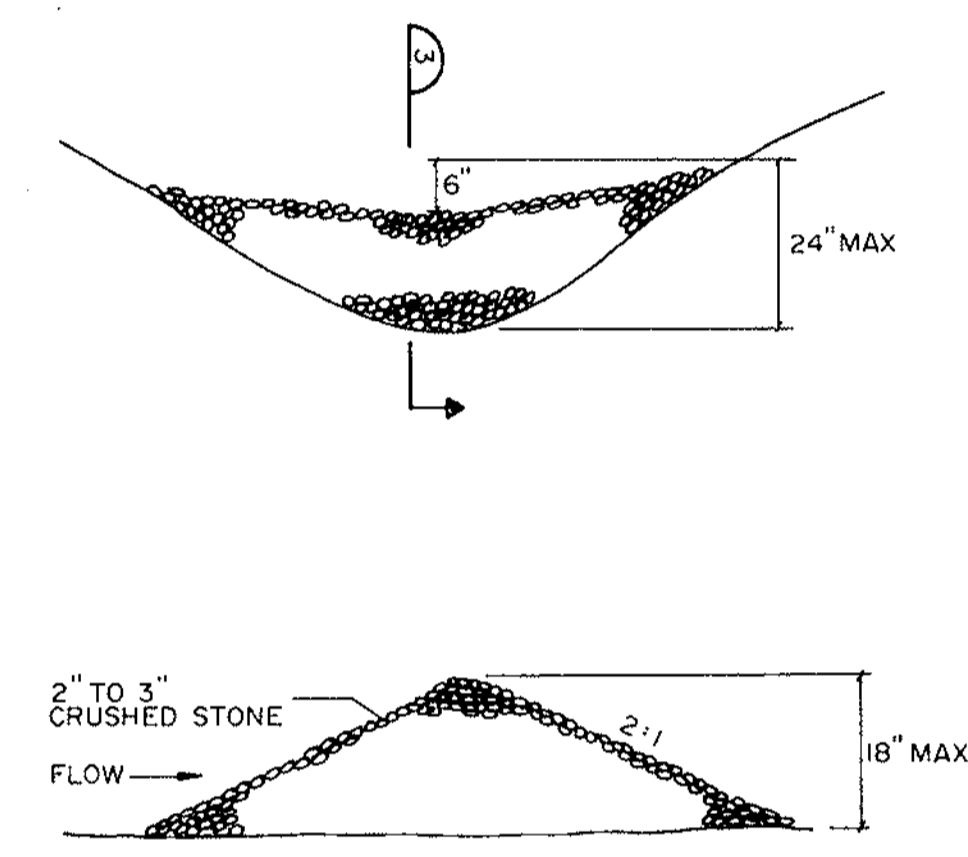
ENG. REQ. NO.
FILE NO. 2-092-4703,7082



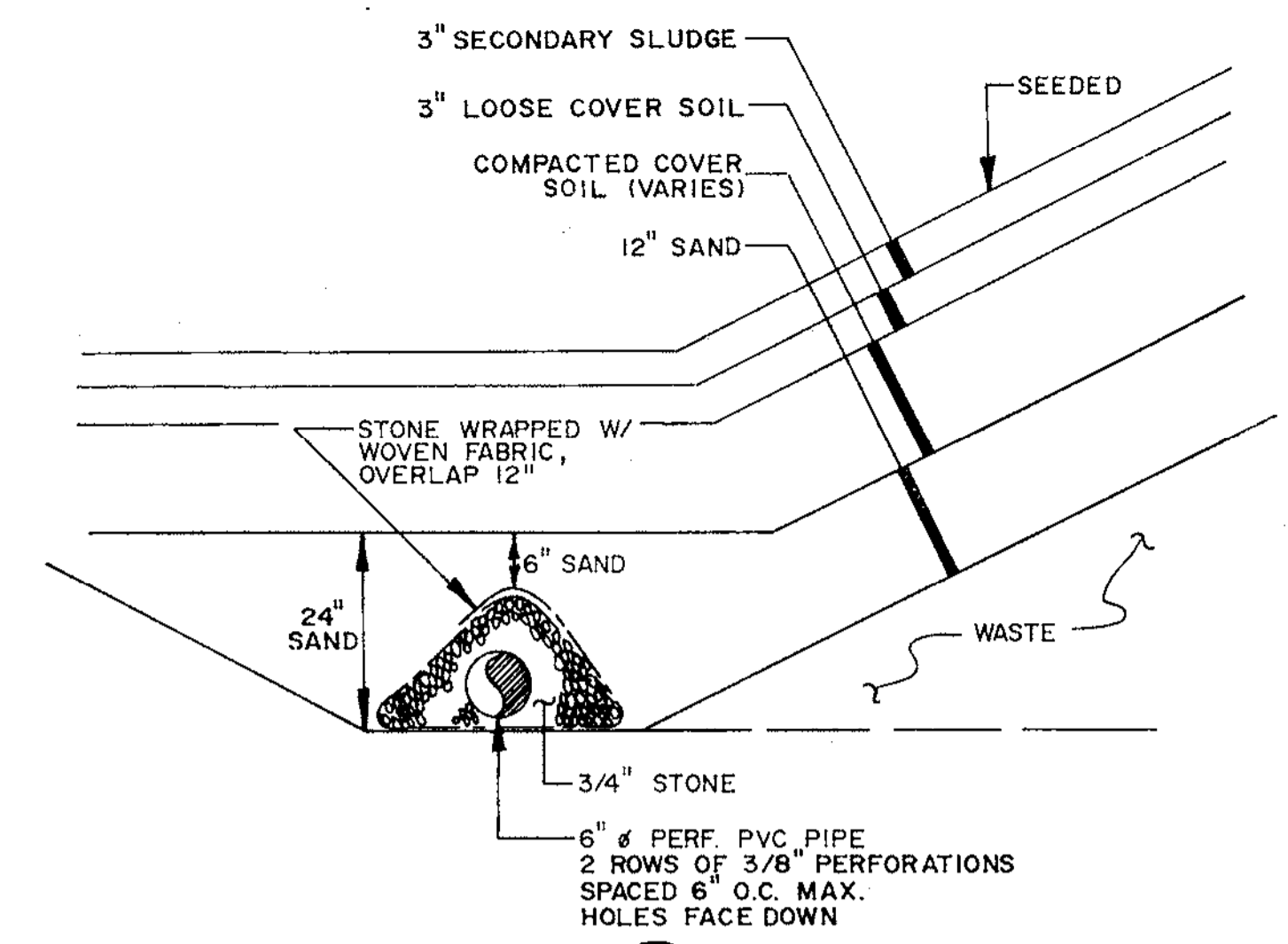
DIKE AND TYPE 2 DRAINAGE DITCH (2)
YB-21004



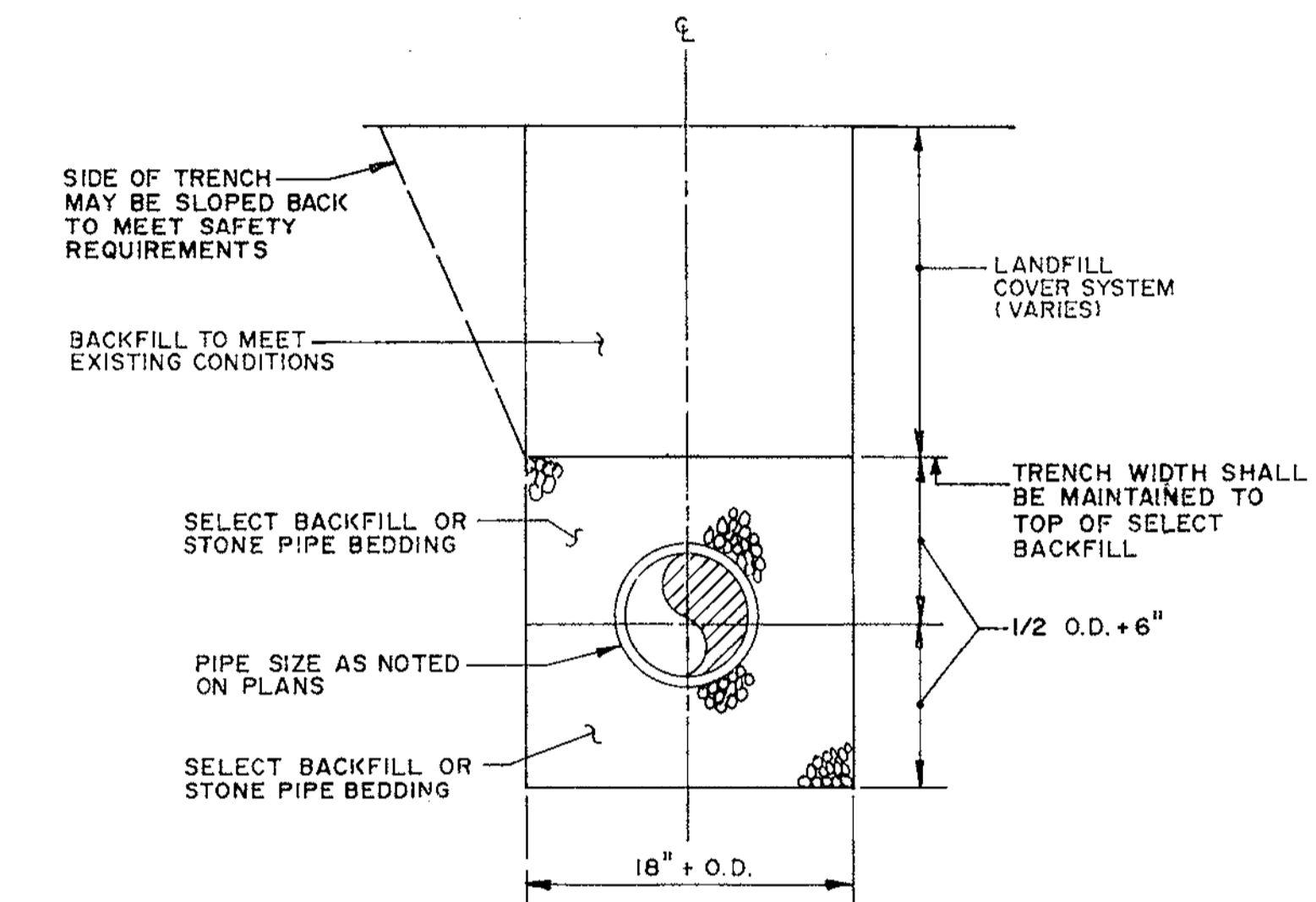
DRAINAGE MANHOLE (A)
NTS YB-21003



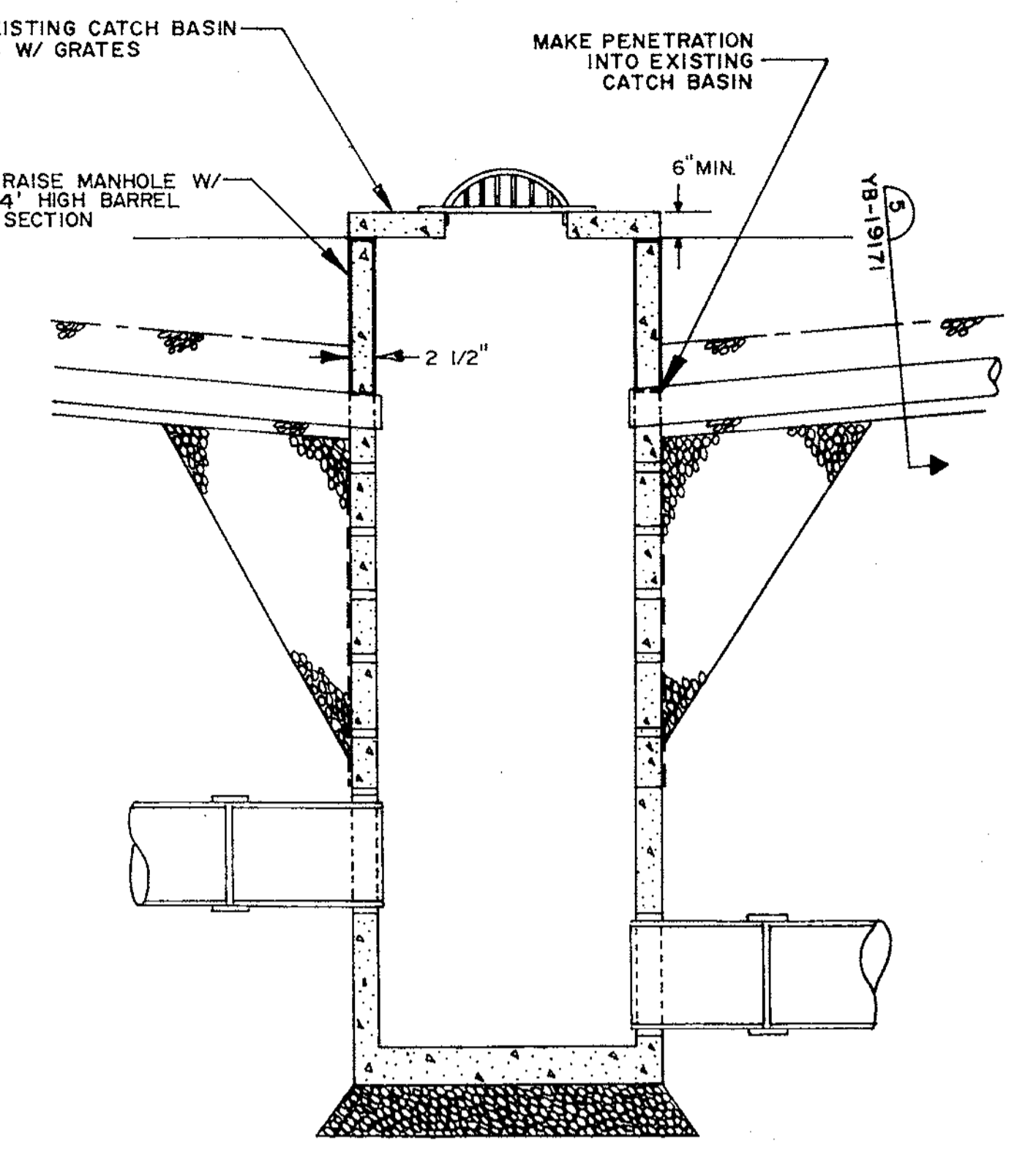
SECTION (3)
STONE CHECK DAM (B)
NTS YB-21006
YB-21004



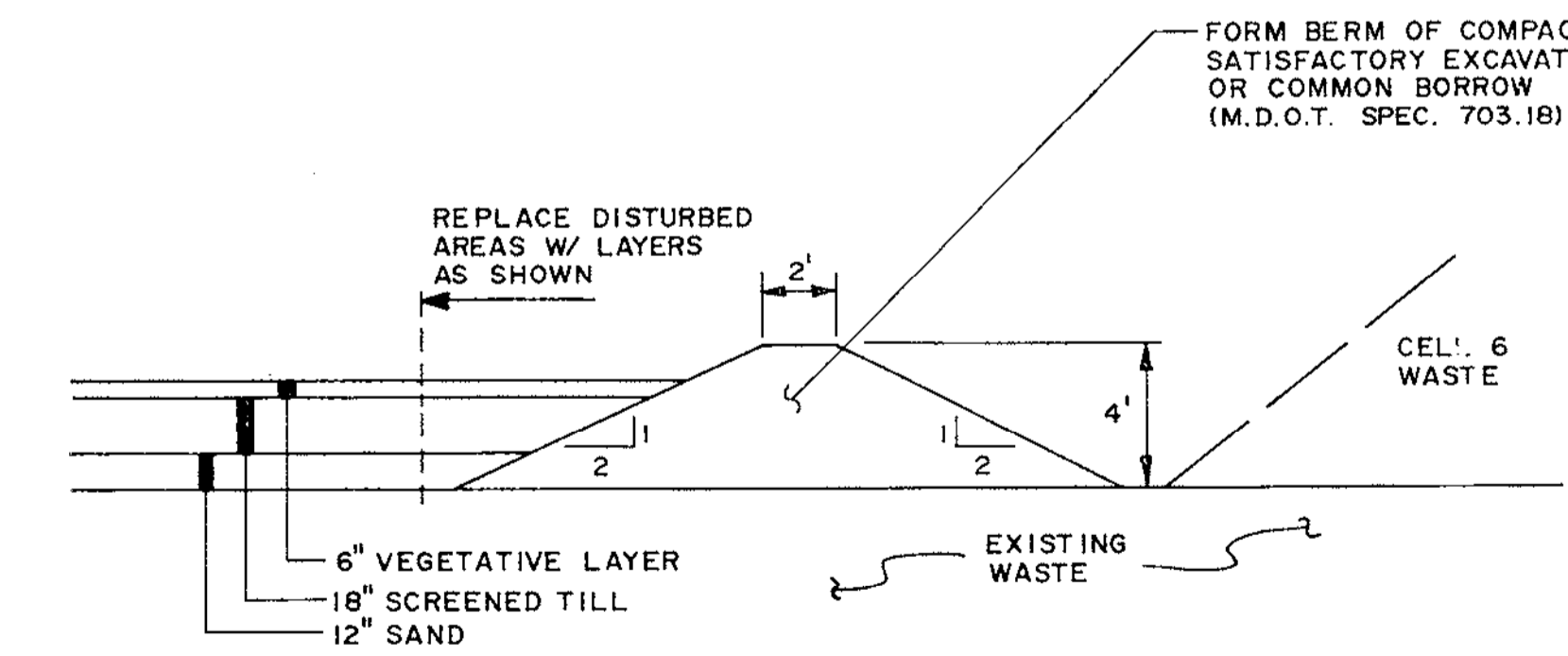
SECTION (8)
NTS YB-21006
YB-21005



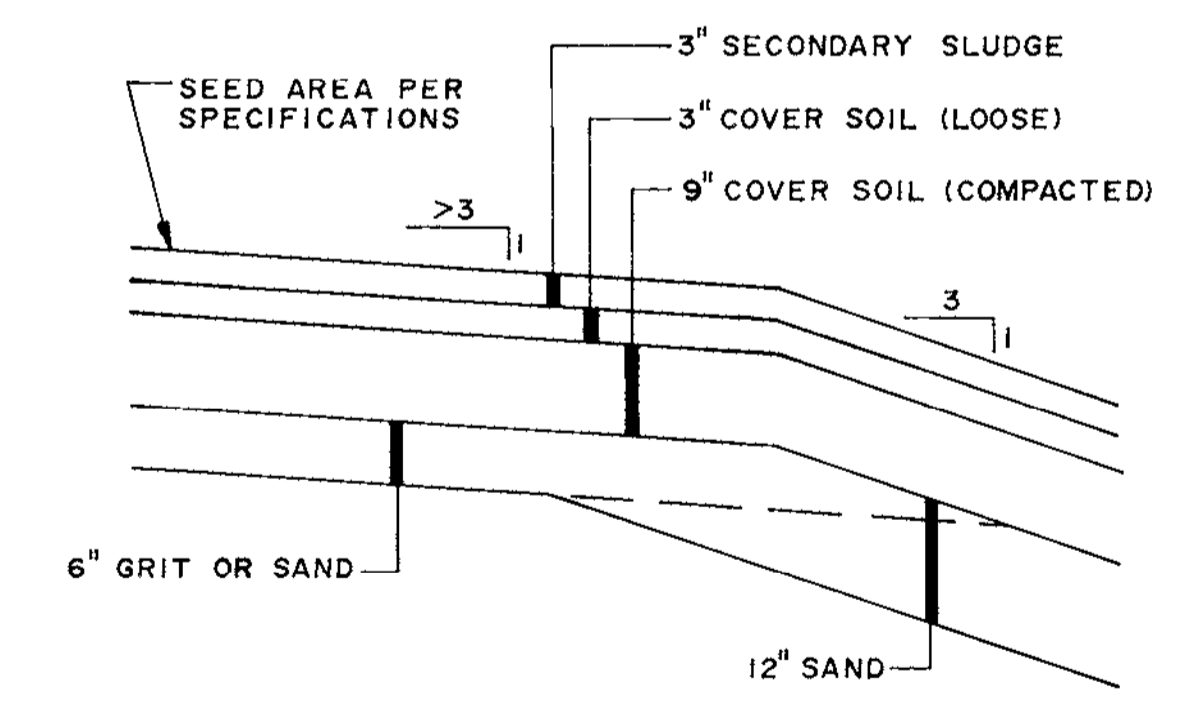
PIPE TRENCH (5)
NTS YB-21003



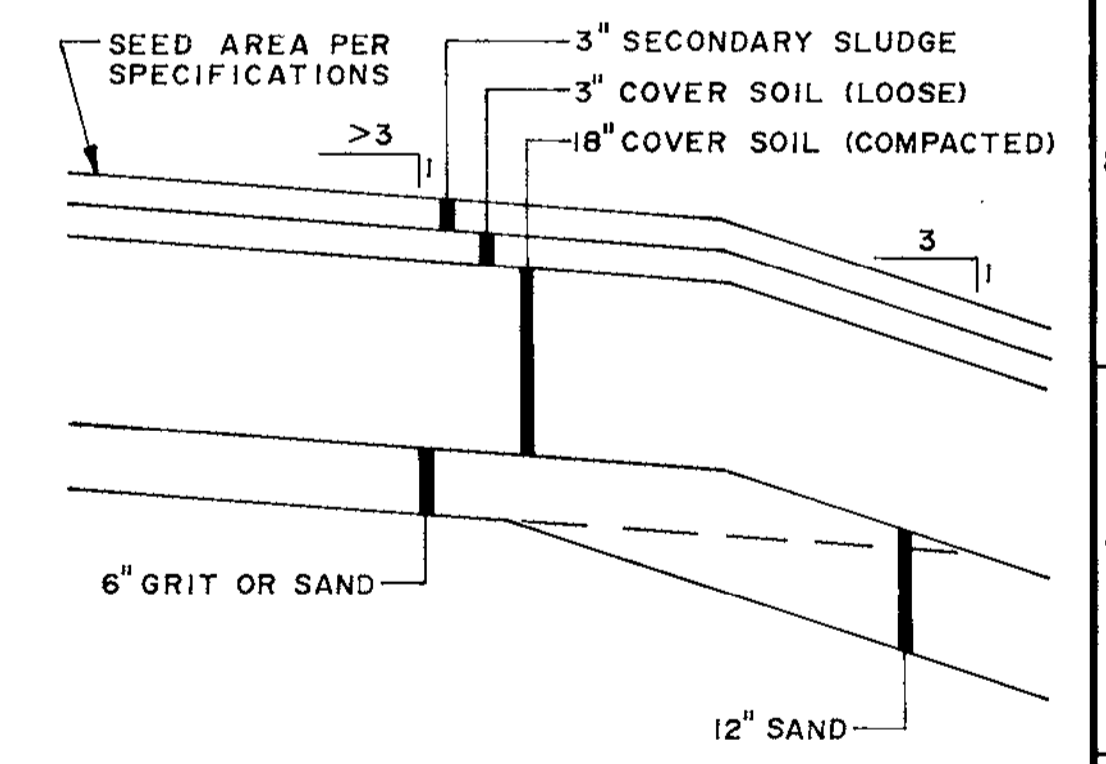
CATCH BASIN (9)
NTS (EXISTING) YB-21005



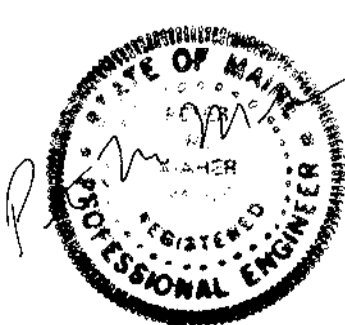
TYPICAL DIKE SECTION (4)
NTS YB-21003



INTERMEDIATE SLOPE COVER SECTION (6)
NTS YB-21005



FINAL COVER SECTION (7)
NTS YB-21005



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				8-18-94	RECORD DRAWING/CELL 8 CONSTRUCTION	CJE			
		B	1	8-4-93	ISSUED FOR BID	YH			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

DRN PAF	6-93
CKD	44C 6-93
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. T.O.C. CONST	
SCALE NTS	



CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION
DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION
SECTIONS 8 & 9 DETAILS

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703.7082

YB-21006

SYMBOLS

	NORTH ARROW (TRUE)		NORTH ARROW (MAGNETIC)
	NORTH ARROW (PLAN NORTH)		CONTOUR LINES
	SPOT ELEVATION (GRADE)		EXISTING GROUND
	SURVEY BASELINE WITH TRAVERSATION OR INTERSECTION POINT		CONSTRUCTION BASELINE
	PROPERTY OR DEED LINE		PROPERTY LINE W/ BEARINGS & DISTANCES
	WALL, BASEMENTS OR RIGHT OF WAY LINE		BOUNDARY LINE
	SURVEY MONUMENT		SURVEY IRON (ROUND)
	IRON PIPE OR STAKE		WALLS OR BRUSH LINE
	INDIVIDUAL TREE (REMAIN)		INDIVIDUAL TREE (REMOVE)
	TREE TO BE REMOVED		RECLAIM AREA
	STONE WALL		CHAIN POLE STRUCTURE & CONSTRUCTION IN PLACE
	SPOT ELEVATION		FLYOVER LINE
	ROCKY SURFACE OR LEVEL		POINT LINE
	RETAINING WALL (TYPE)		GRADE LINE
	SLOPE RATIO		SLOPES
	EDGE OF TRAVELED WAY		CUT OR FILL LINE
	CONSTRUCTION LIMIT LINE		BRIDGEMAN'S PAYEMENT
	GRAVEL ROAD		RAILROAD
	SAND OR GRAVEL		SILTATION FENCE
	1ST POINT MONITORING STATION OR PILE NO. & NUMBER		MANHOLE
	UNDERGROUND GAS MAIN		UNDERGROUND TELEPHONE CABLE
	UNDERGROUND ELECTRICAL CABLE		OVERHEAD ELECTRICAL LINE
	SANITARY SEWER		FORCE MAIN
	WATER MAIN		STORM DRAIN
	UNDERDRAIN		CULVERT

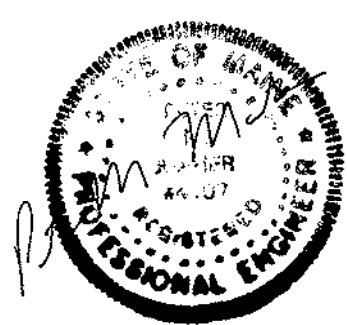
ABBREVIATIONS

A.C.P.	ASPHALT COATED C.W.P.	C.M.P.	CORRUGATED METAL PIPE	D.P.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASBESTOS CEMENT PIPE	C.S.	CLEAR CUT	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ACRE	C.S.	CEMENT LINE	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	AGGREGATE	C.S.	CENTRAL ANGLE OF CURVE	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ALUMINUM	C.S.	CUBIC FEET	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	APPROVED	C.S.	CURB FEET PER BEARING	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	APPROXIMATE	C.S.	DASH IRON	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASBESTOS	C.S.	CLASS	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASPHALT	C.S.	CONCRETE	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ALUMINUM TYPE 2 C.W.P.	C.S.	CONSTRUCTION	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	AUTOMATIC	C.S.	CONTRACTOR	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	AUXILIARY	C.S.	CENTER	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	AVIATION	C.S.	CUBIC YARD	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	AVIATION	C.S.	DEGREE OF CURVE (AND DEF.)	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DEGREE	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DEPARTMENT	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DUCILE IRON	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DIA OR Ø	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DIMENSION	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DIST	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE
A.C.P.	ASTM	C.S.	DOWN	D.W.	DRAINAGE	D.P.P.	DOLLARS PER BAG	D.P.T.	DRAINAGE	D.P.W.	DRAINAGE

- GENERAL NOTES:**
- THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
 - CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
- MATERIAL SPECIFICATION:**
- COMMON BORROW** - MDT SPECIFICATION - 703.18
- ROADWAY SUBBASE** - MDT SPECIFICATION - 703.06 TYPE "D"
- ROADWAY SUBBASE** - MDT SPECIFICATION - 703.06 TYPE "G"
- ROADWAY SURFACE COURSE** - MDT SPECIFICATION - 703.10
- STONE BEDDING** - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.
- PIPE BEDDING** - THE PIPE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.
- BASAL BLANKET** - MDT SPECIFICATION - 703.05
- COMPACTION** - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).
- 6" AND 8" PVC PIPE** - SDR 21
- 18" PVC PIPE** - SDR 26
- GRUBBING:**
- ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 9 ROADWAY AND SEDIMENTATION POND AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.
- SEED AND FERTILIZER:**
- AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDDED.
- MATERIALS -**
- AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)
- FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT
- SEED:
- | | |
|-----------------|-----|
| TALL FESCUE | 59% |
| RED FESCUE | 25% |
| RED TOP | 5% |
| LADINO CLOVER | 3% |
| ANNUAL RYEGRASS | 8% |
- THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT
- MULCH** - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE.
- INSTALLATION** - MDT 618.05 AND MDT 618.06
- RECOMMENDED TIME OF SEEDING** IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION

SECTION NO. & LOCATION	DETAIL IDENTIFICATION & LETTER
3 DRAWING WHERE SECTION OR DETAIL APPEARS	MANHOLE A C-100
SECTION TITLE & NO.	DETAIL TITLE & LETTER
ACCESS ROAD 3 C-100	MANHOLE A C-100
DRAWING WHERE SECTION IS TAKEN	DRAWING WHERE DETAIL IS CALLED OUT



SEVER & MAHER ENGINEERS, INC.
CUMBERLAND, MARYLAND

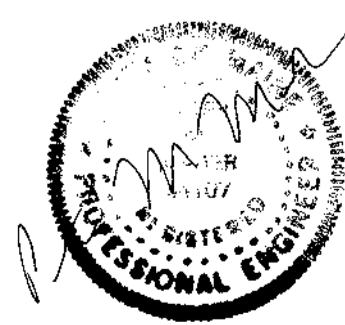
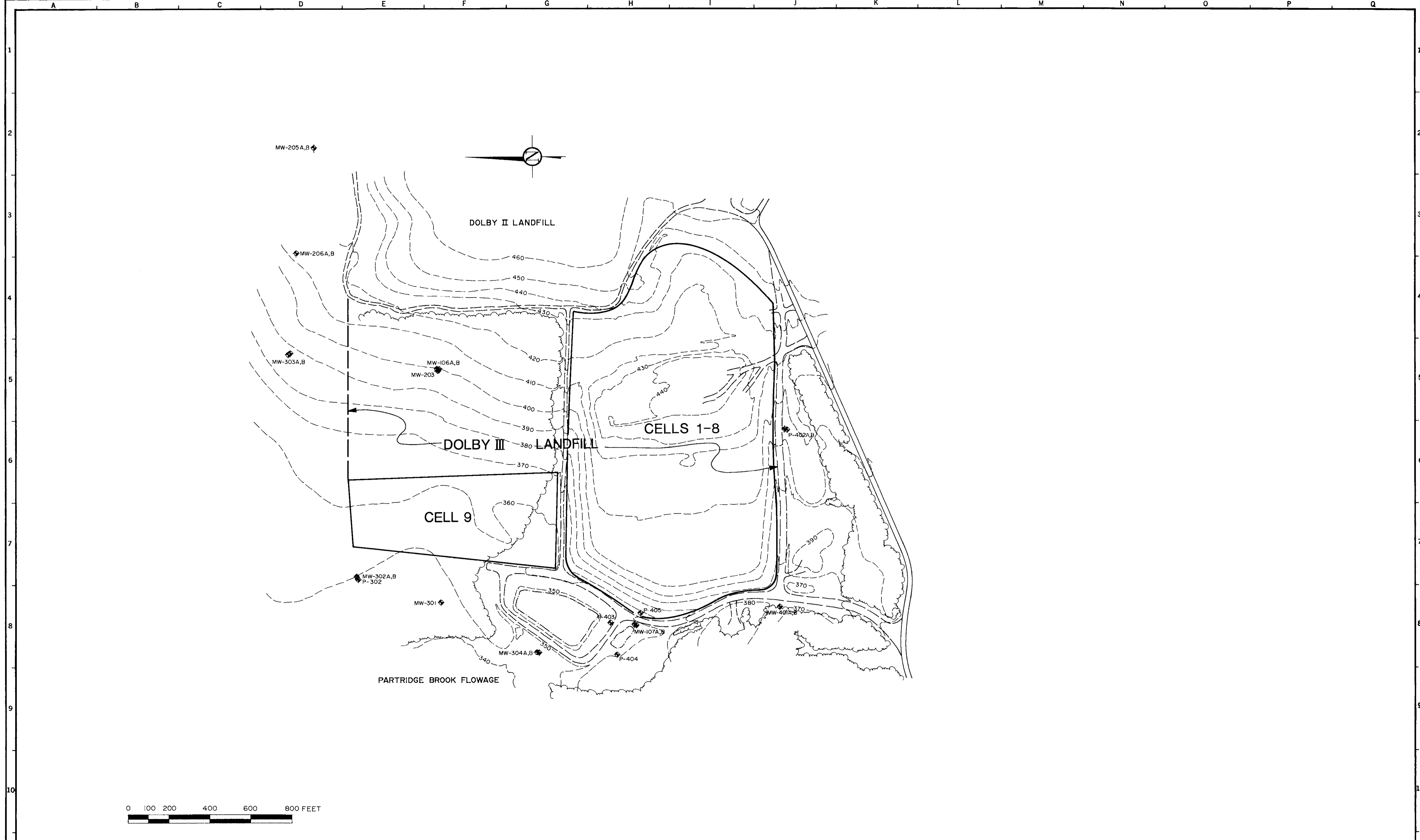


**EAST OPERATION
DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SYMBOLS & ABBREVIATIONS**

94654
FILE NO. 2-092-470-2192
YD-23040

7/95 RECORD DRAWING
9/8/94 ISSUED FOR BID
9/7/94 SUBMITTED TO CLIENT

94028



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
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				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

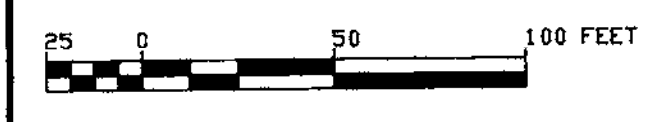
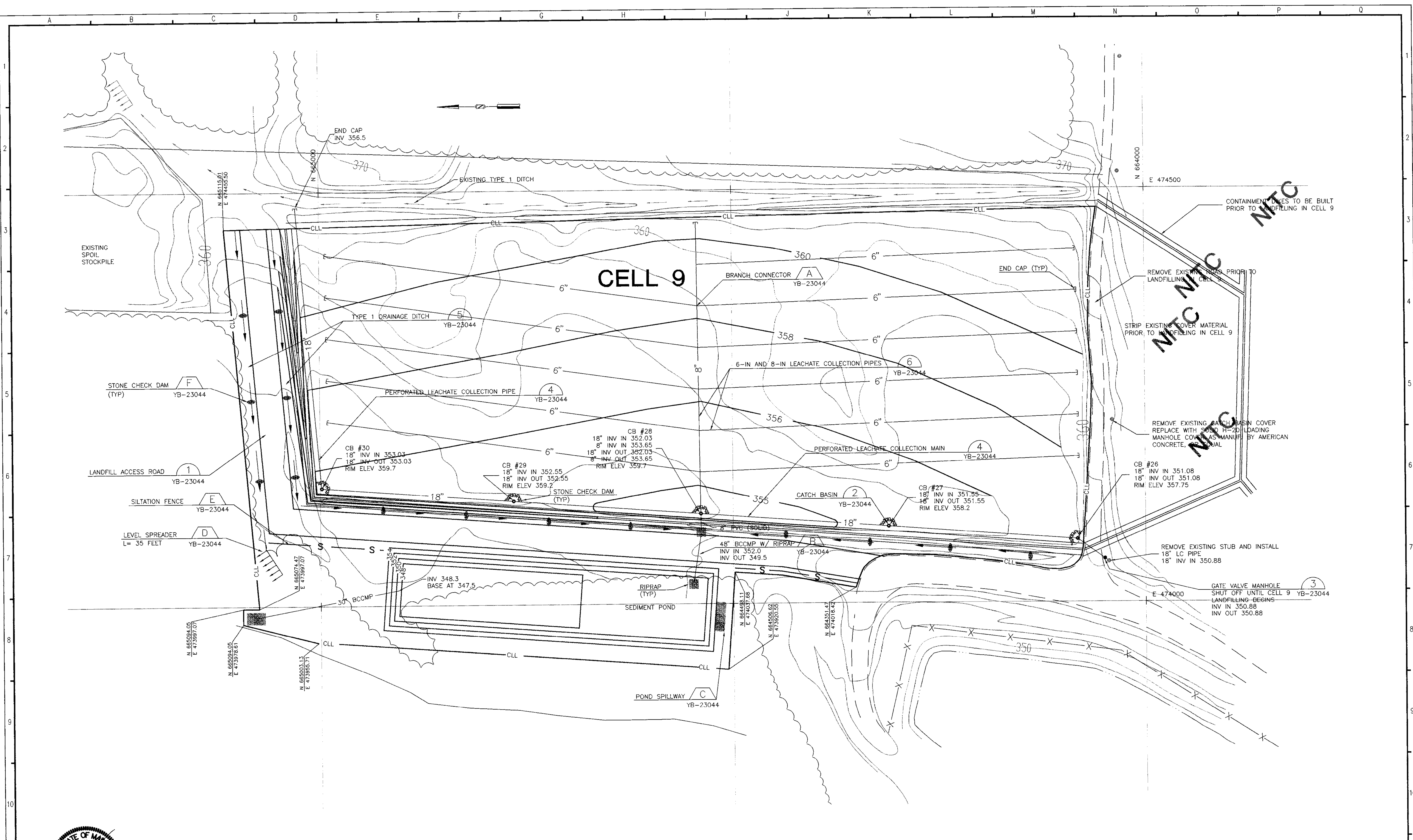
SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE
 JOB NO. 94028

DRN	
CKD	
CKD	
CONR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. O.	C - CONST
SCALE 1" = 200'	



EAST OPERATION
 DOLBY III LANDFILL
 CELL 9 CONSTRUCTION
 SITE LOCATION PLAN
 JOB NO. 94654
 ENG. REG. NO. _____
 FILE NO. 2-092-4703,7082
YB-23041

D:\GMP\ACAD\CELL9\GMP\CELL9.dwg, 12/15/21, 4:03:55



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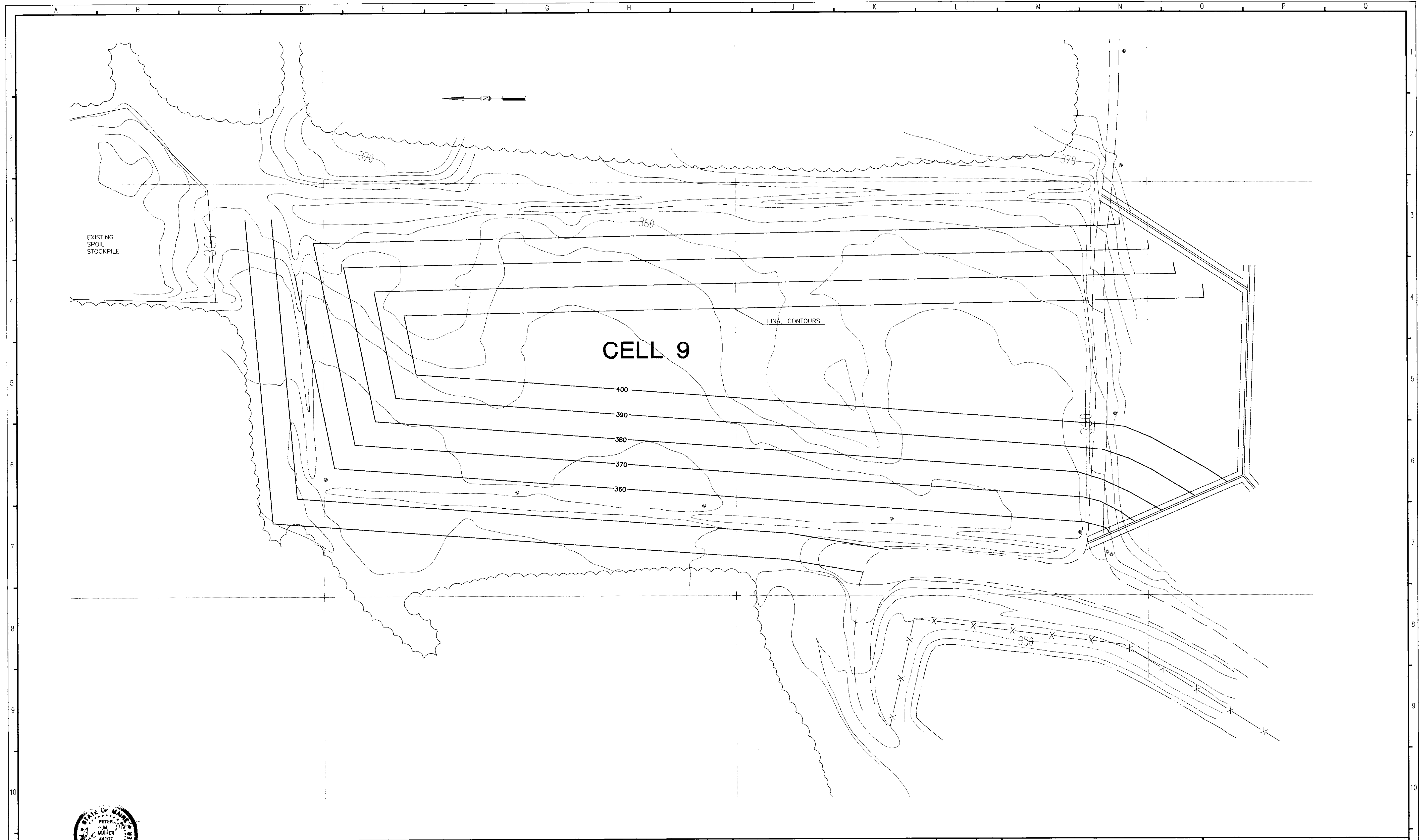
SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 94028

DRN	
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CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - M.T.O.	C - Const.
SCALE AS SHOWN	



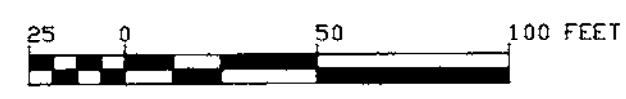
EAST OPERATION
**DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SITE DEVELOPMENT PLAN**
JOB NO. 94654
ENG. REQ. NO. YB-23042
FILE NO. 2-092-4703,7082



EXISTING SPOIL STOCKPILE

FINAL CONTOURS

CELL 9



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

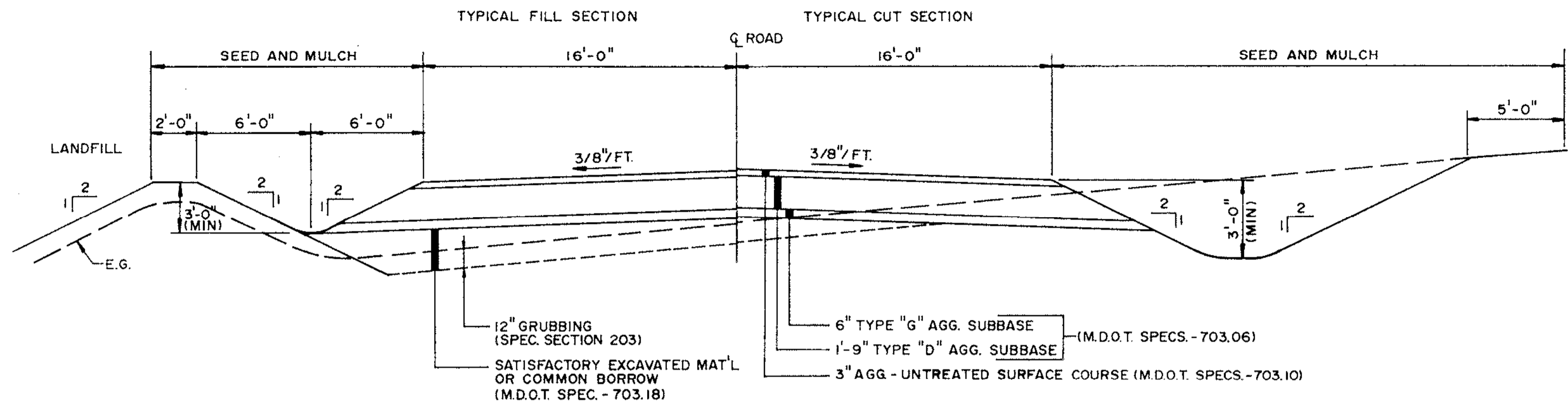
JOB NO. 94028

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CHK	
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CORR	
APPVD	
ISSUE CODE	
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M - M.H.T.O.	C - Const.
SCALE AS SHOWN	

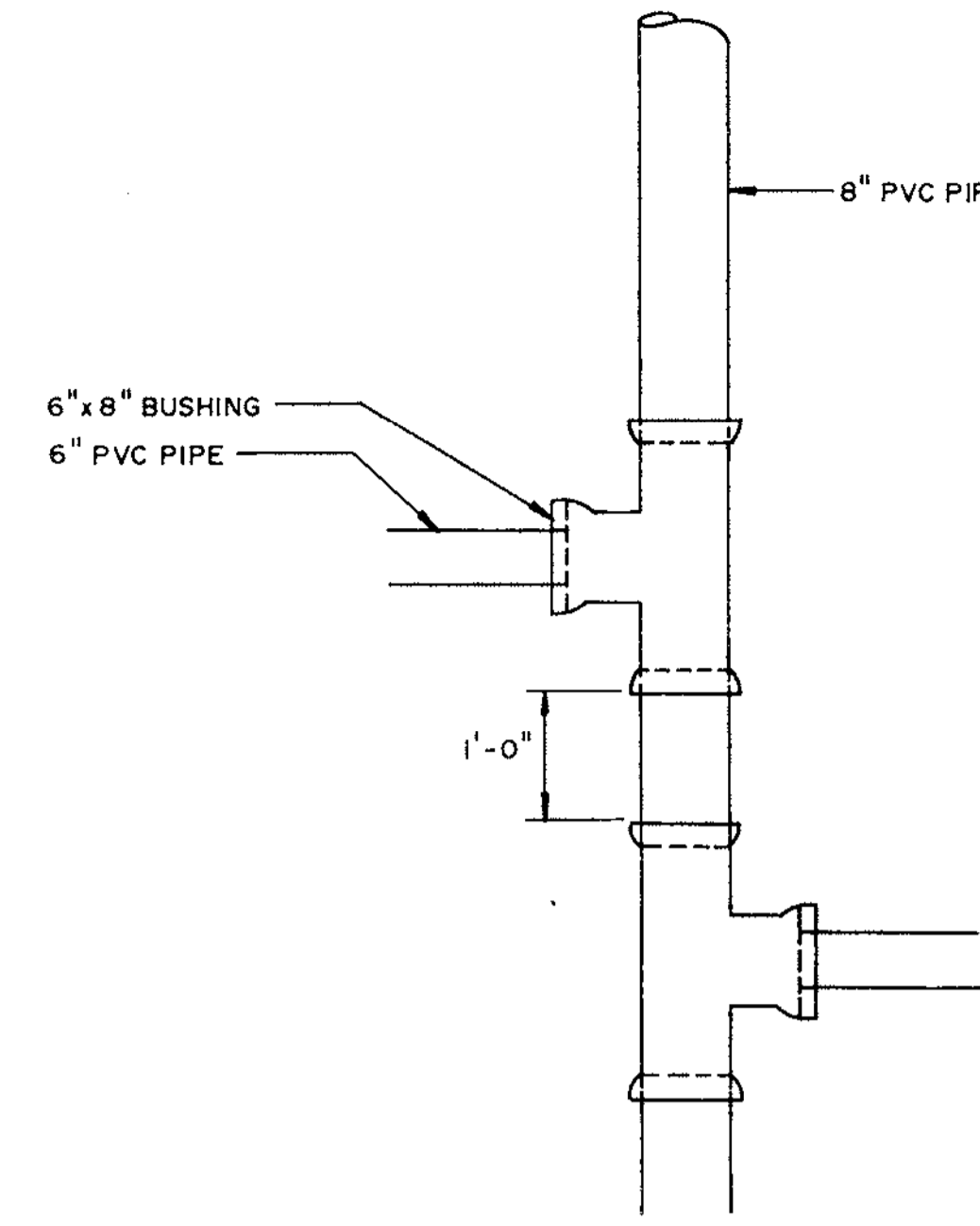
BOWATER
Great Northern Paper

EAST OPERATION
DOLBY III LANDFILL
CELL 9 CONSTRUCTION
FINAL GRADING PLAN
JOB NO. 94654
ENG. REQ. NO. YB-23043
FILE NO. 2-092-4703.7082

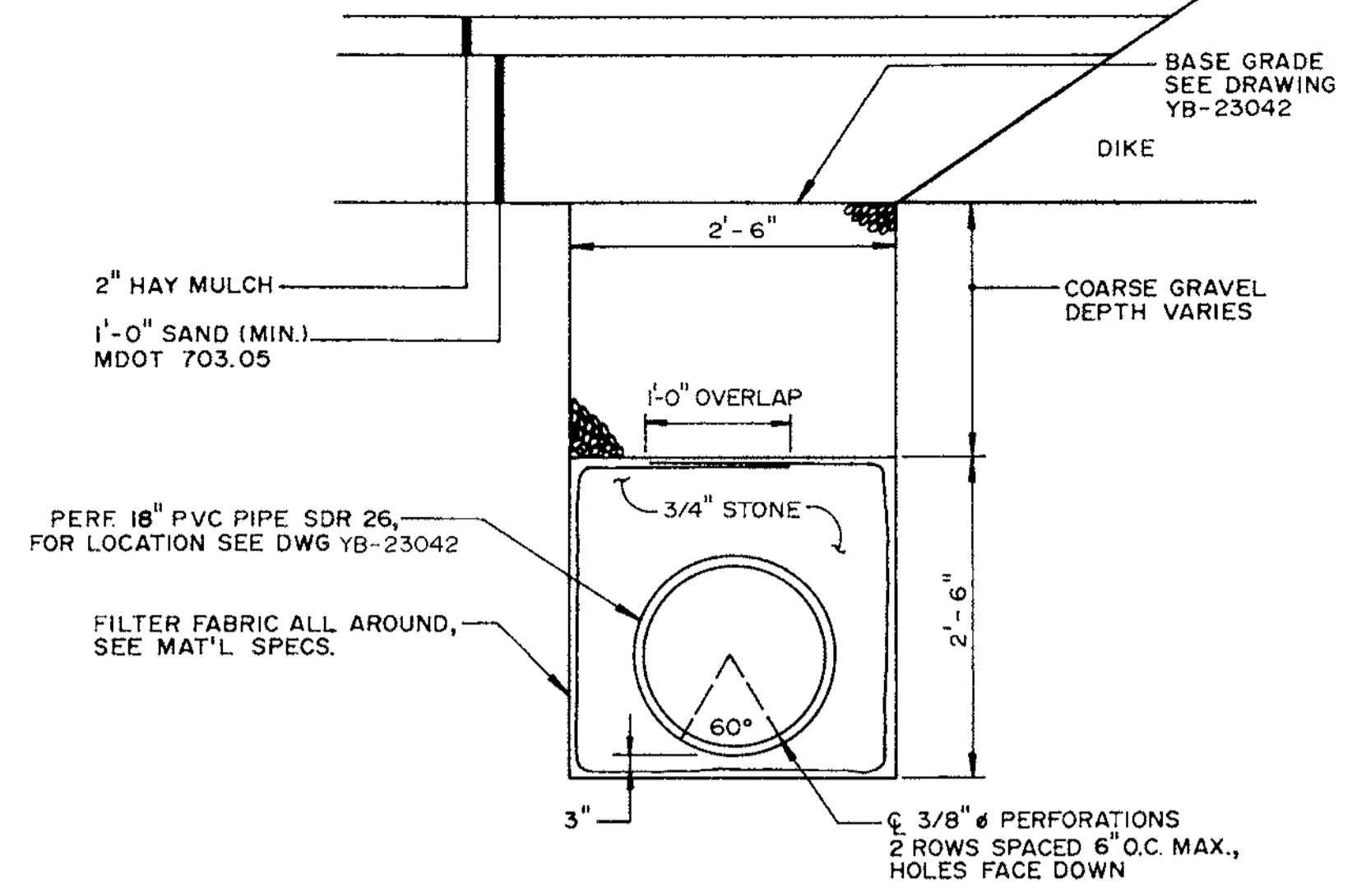
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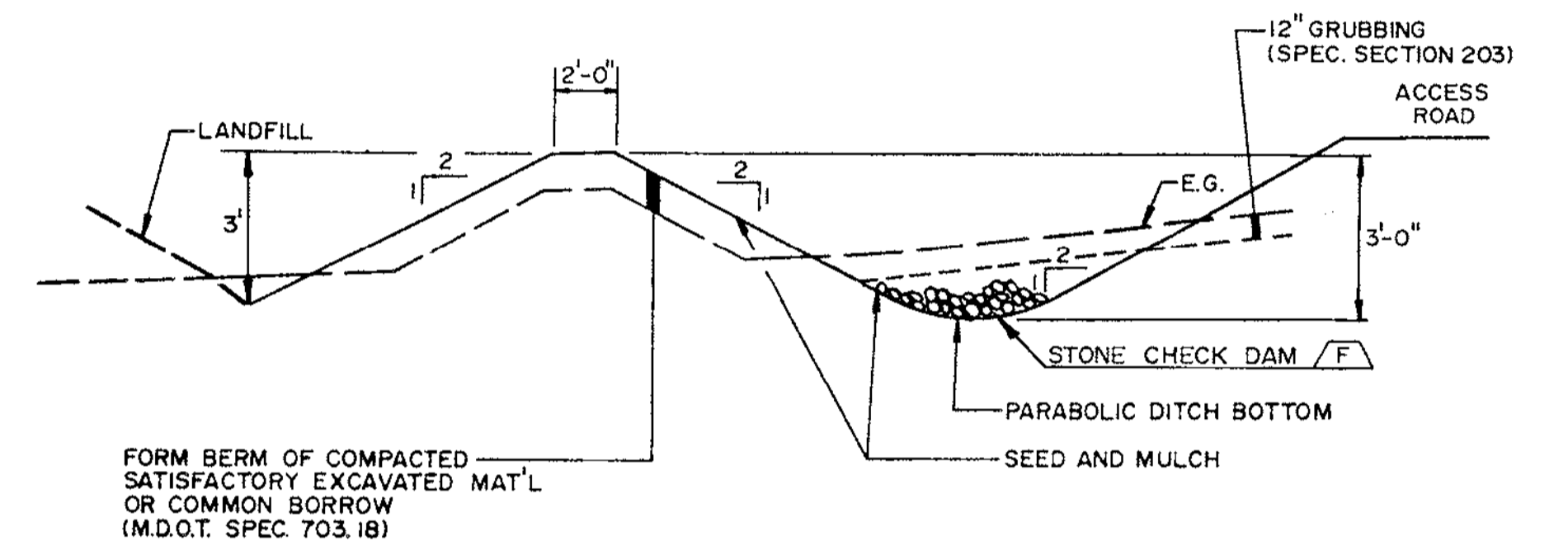
**TYPICAL SECTION
 LANDFILL ACCESS ROAD** (1)
 N.T.S. YB-23042



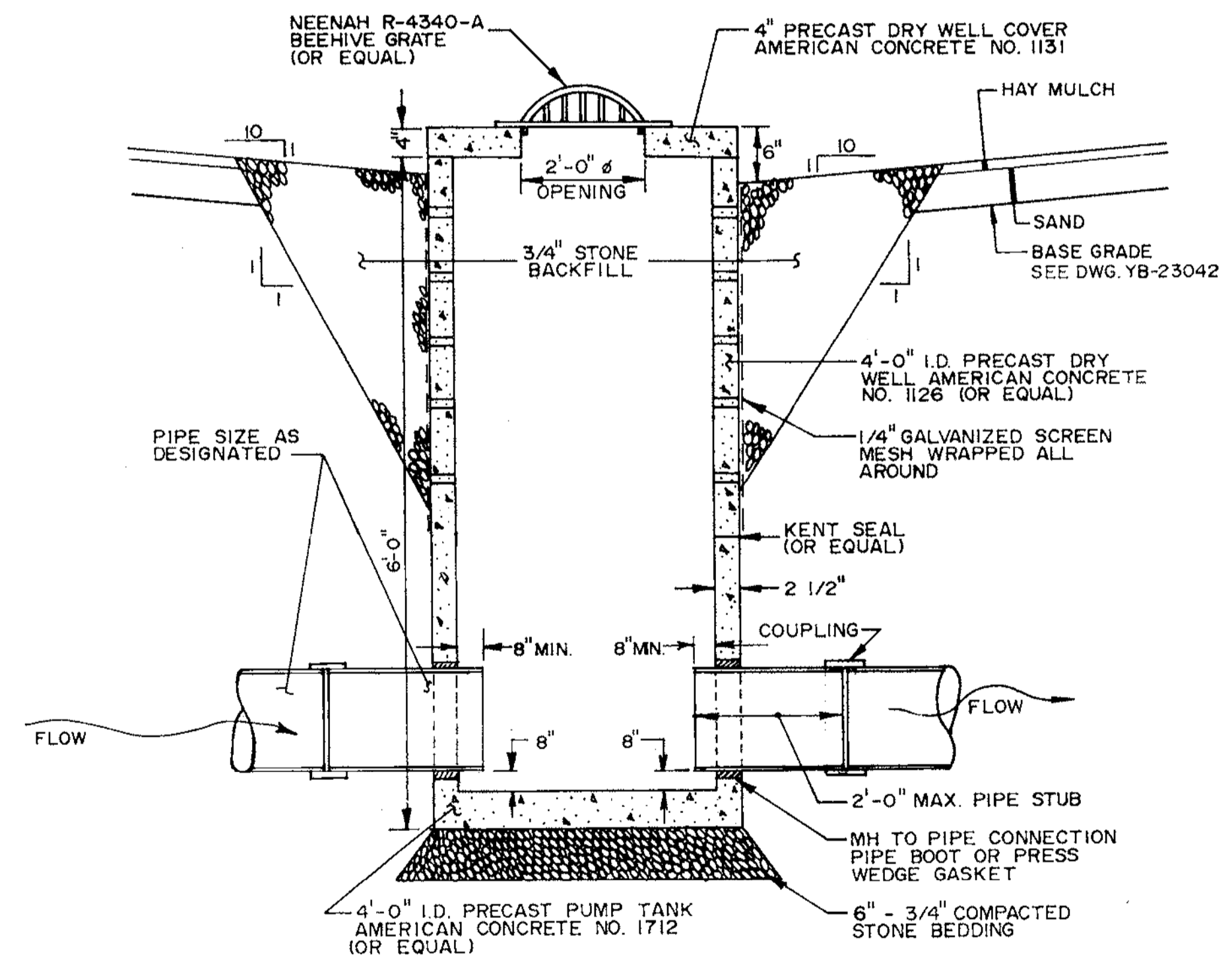
BRANCH CONNECTOR (A)
 N.T.S. YB-23042



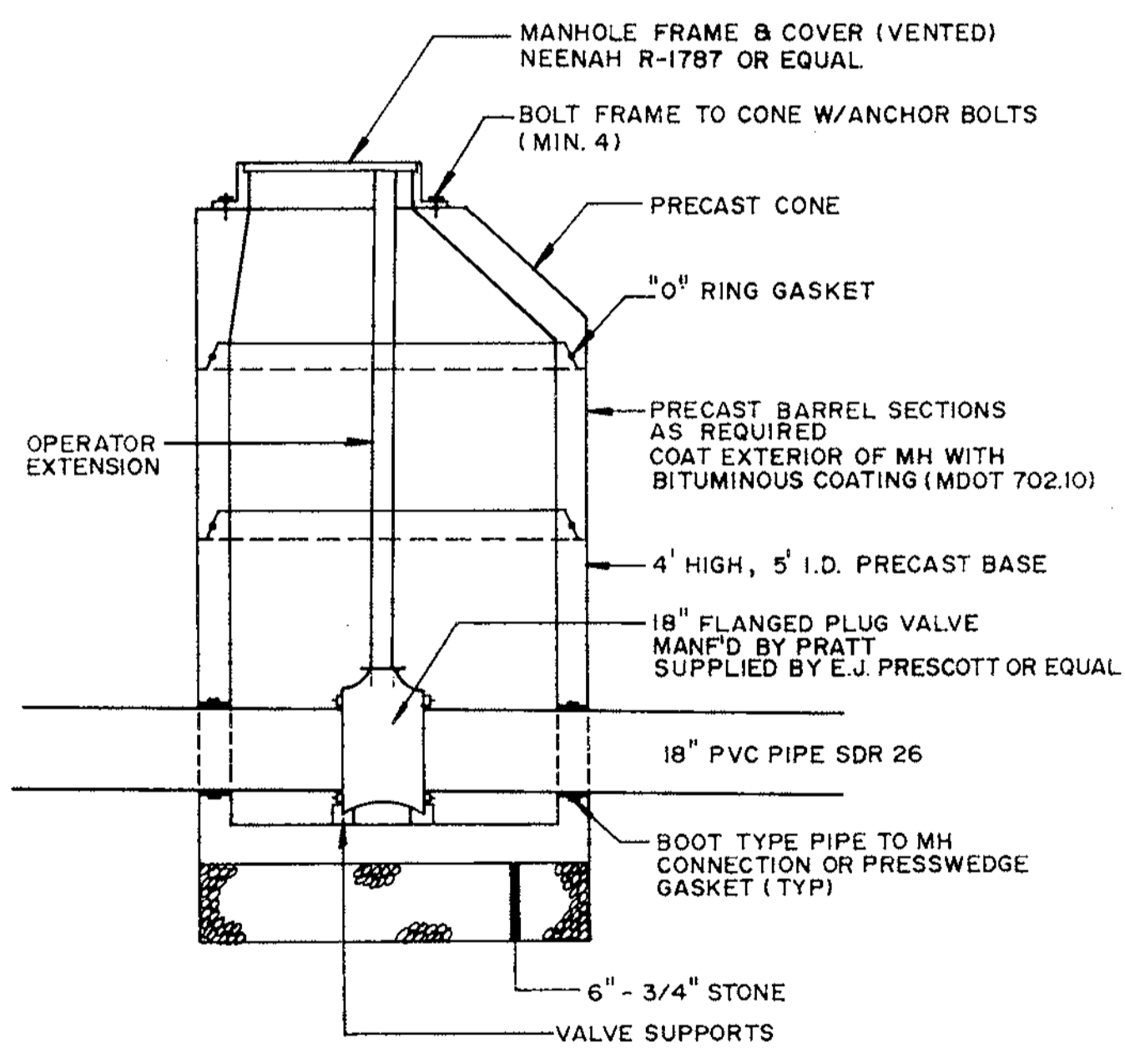
PERF. LEACHATE COLLECTION MAIN (4)
 N.T.S. YB-23042



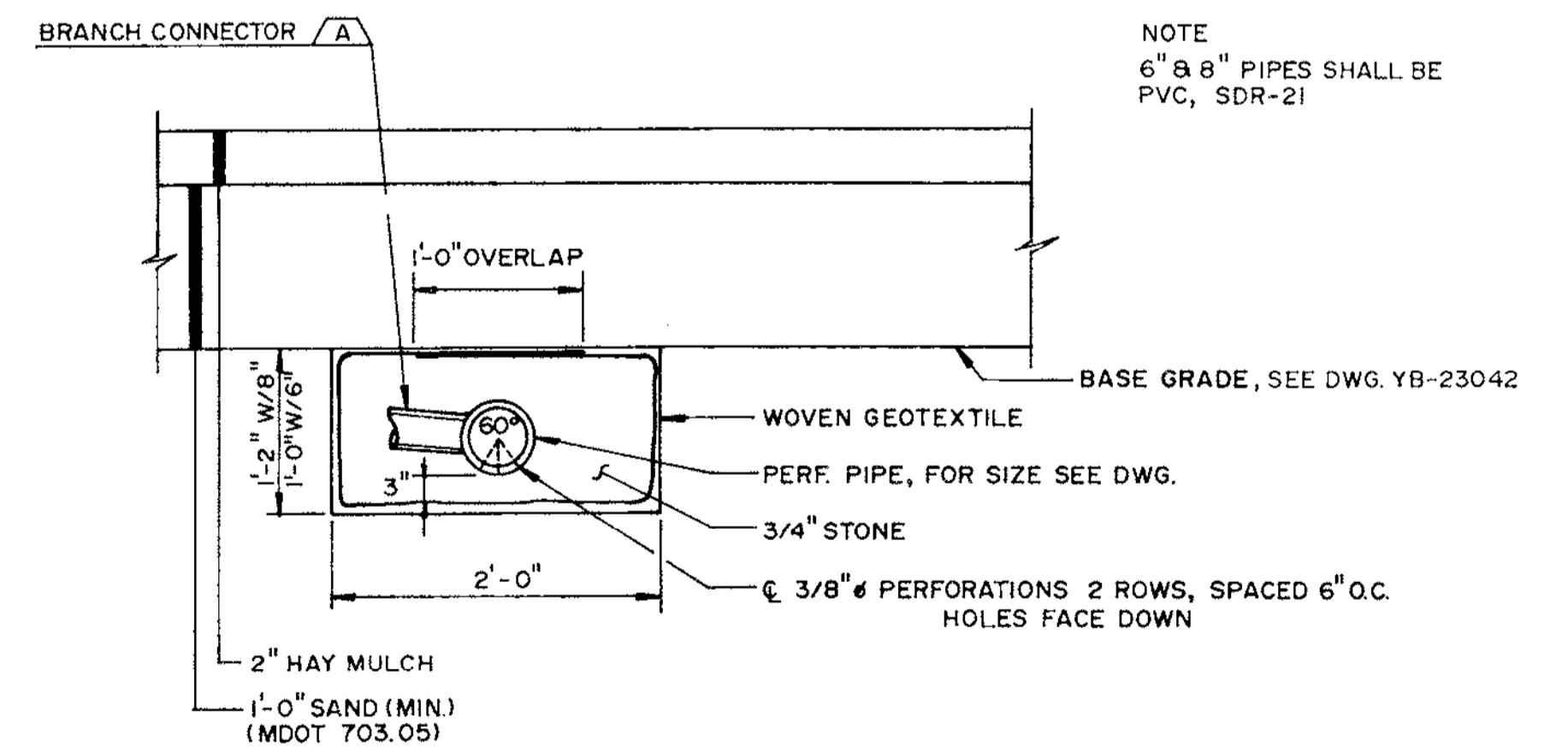
DIKE AND TYPE I DRAINAGE DITCH (5)
 N.T.S. YB-23042



CATCH BASIN (2)
 N.T.S. YB-23042



VALVE MANHOLE (3)
 N.T.S. YB-23042



6-IN. 8-IN. LEACHATE COLLECTION PIPES (6)
 N.T.S. YB-23042



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
 CONSULTING ENGINEERS
 CUMBERLAND, MAINE

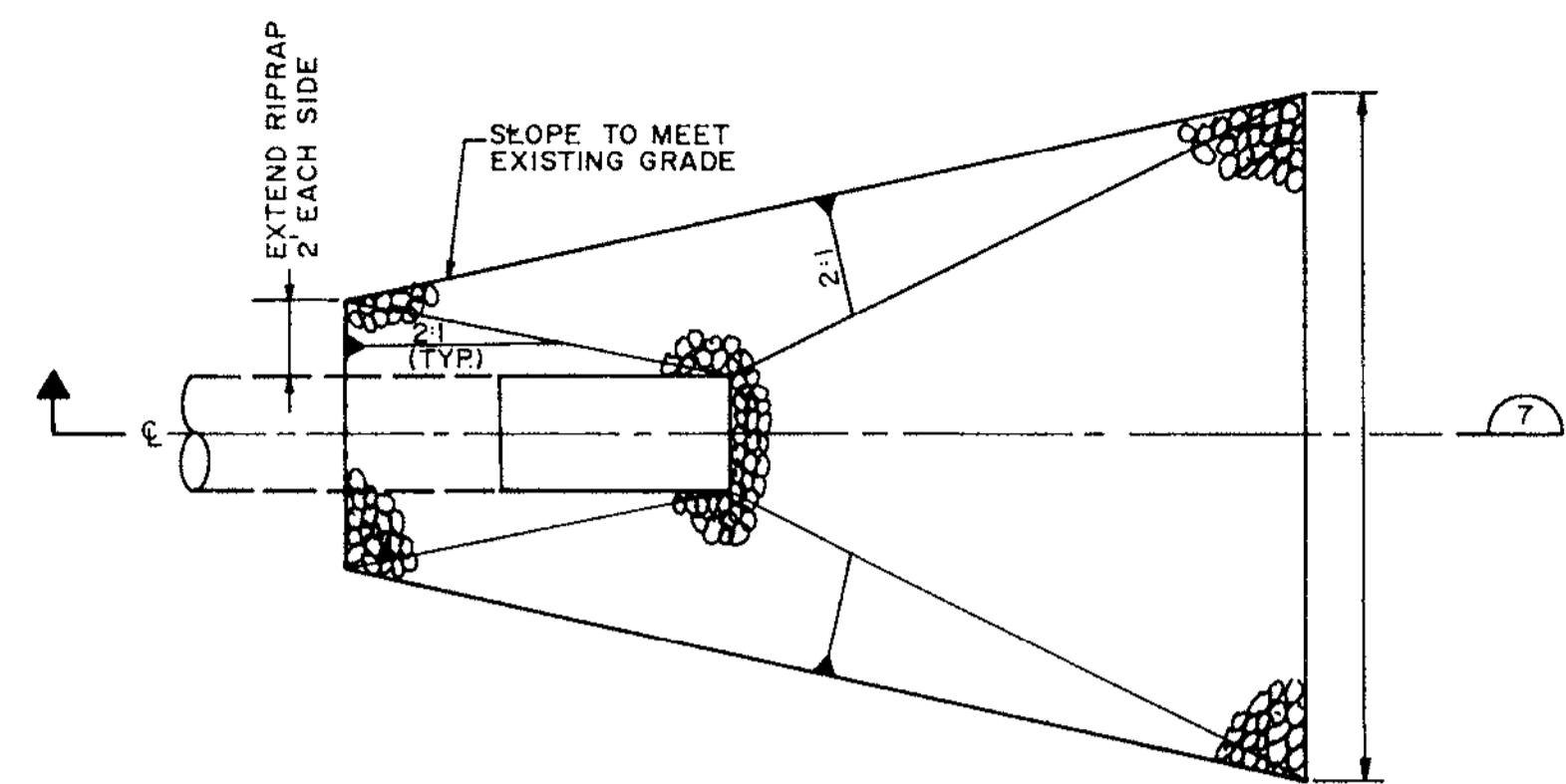
JOB NO. 94028

DRN	
CKD	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. O.C. CONST	
SCALE N.T.S.	

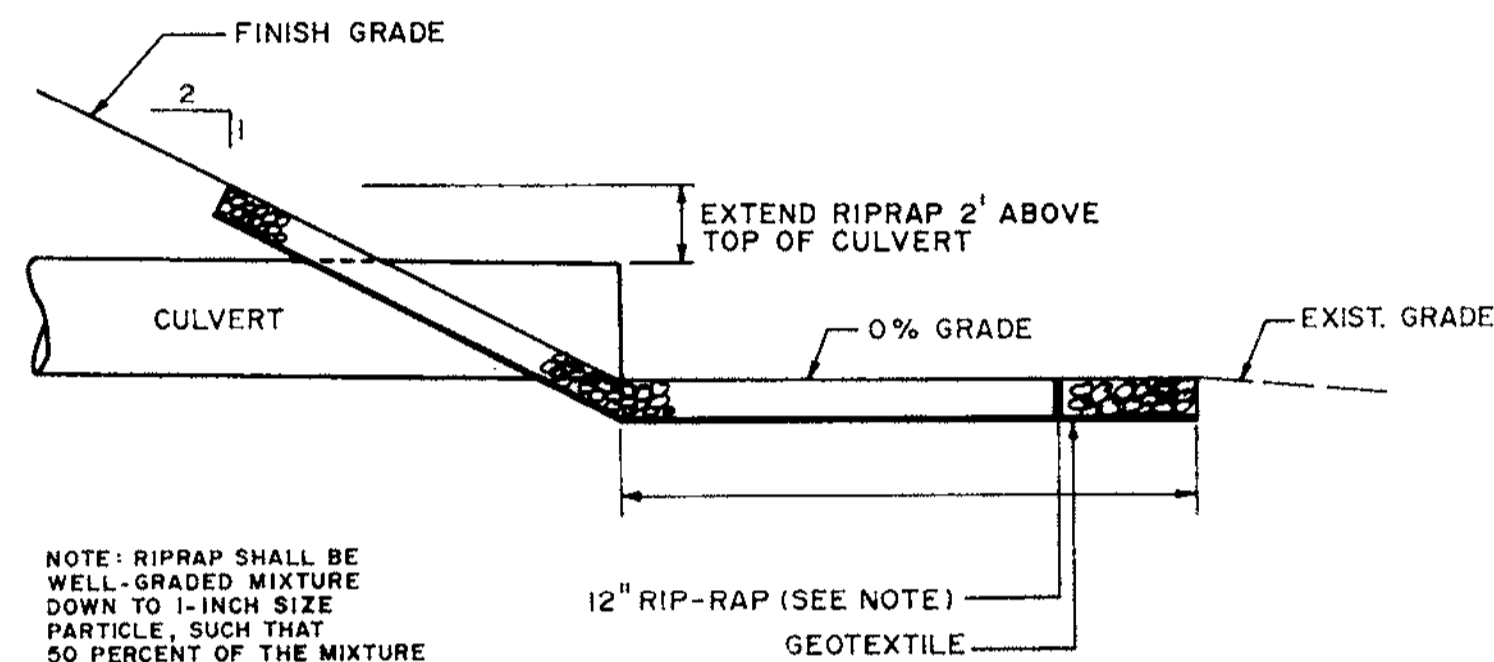


EAST OPERATION
 DOLBY III LANDFILL
 CELL 9 CONSTRUCTION
 SECTIONS & DETAILS

JOB NO. 94654
 ENG. REQ. NO. _____
 FILE NO. 2-092-4703,7082
YB-23044
 SHEET 1 OF 2



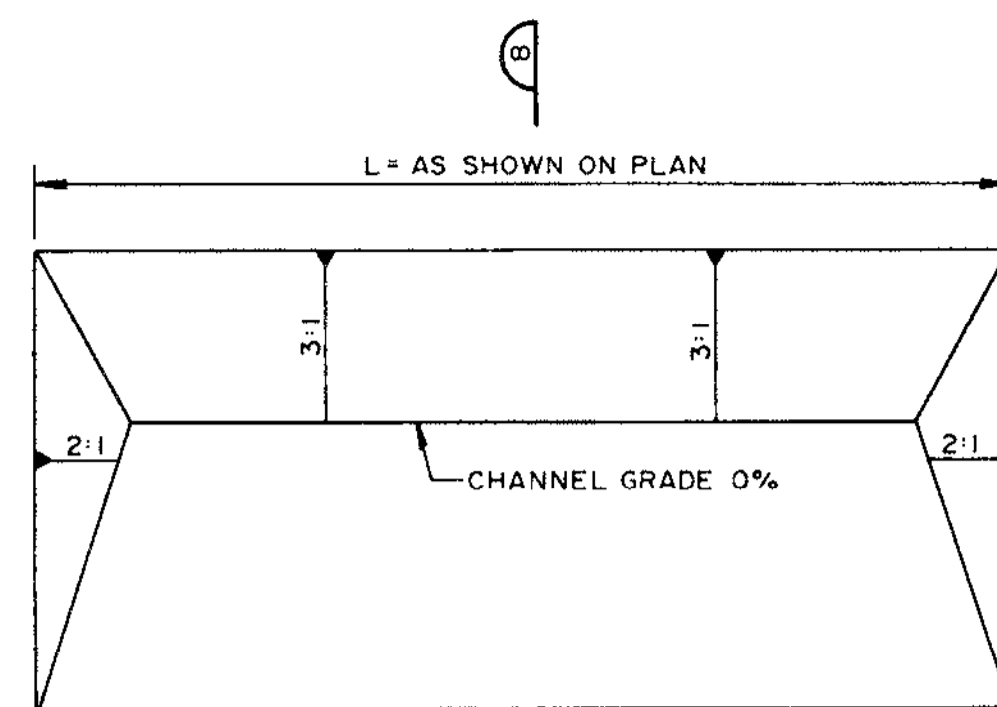
PLAN
N.T.S.



NOTE: RIPRAP SHALL BE WELL-GRADED MIXTURE DOWN TO 1-INCH SIZE PARTICLE, SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN 4."

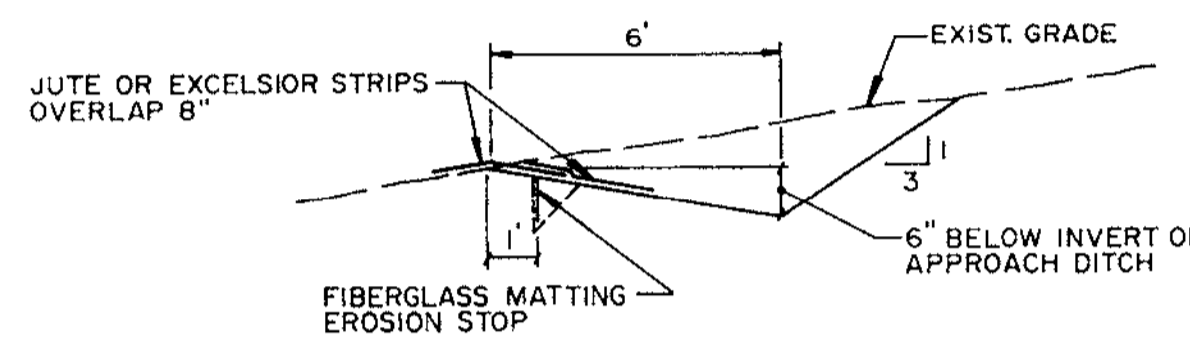
SECTION 7
N.T.S.

CULVERT W/ RIPRAP B
YB-23042



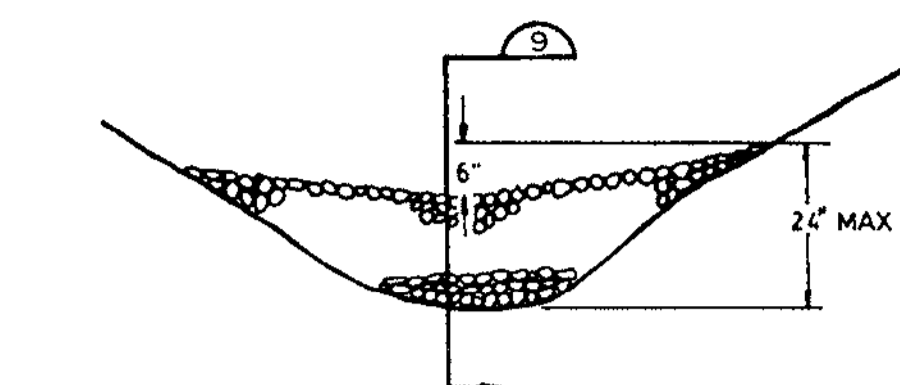
NOTE: LAST 20 FT. OF DRAINAGE DITCH NOT TO EXCEED 1% GRADE

PLAN
N.T.S.

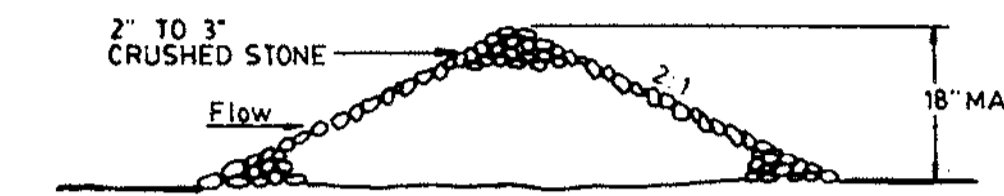


SECTION 8
N.T.S.

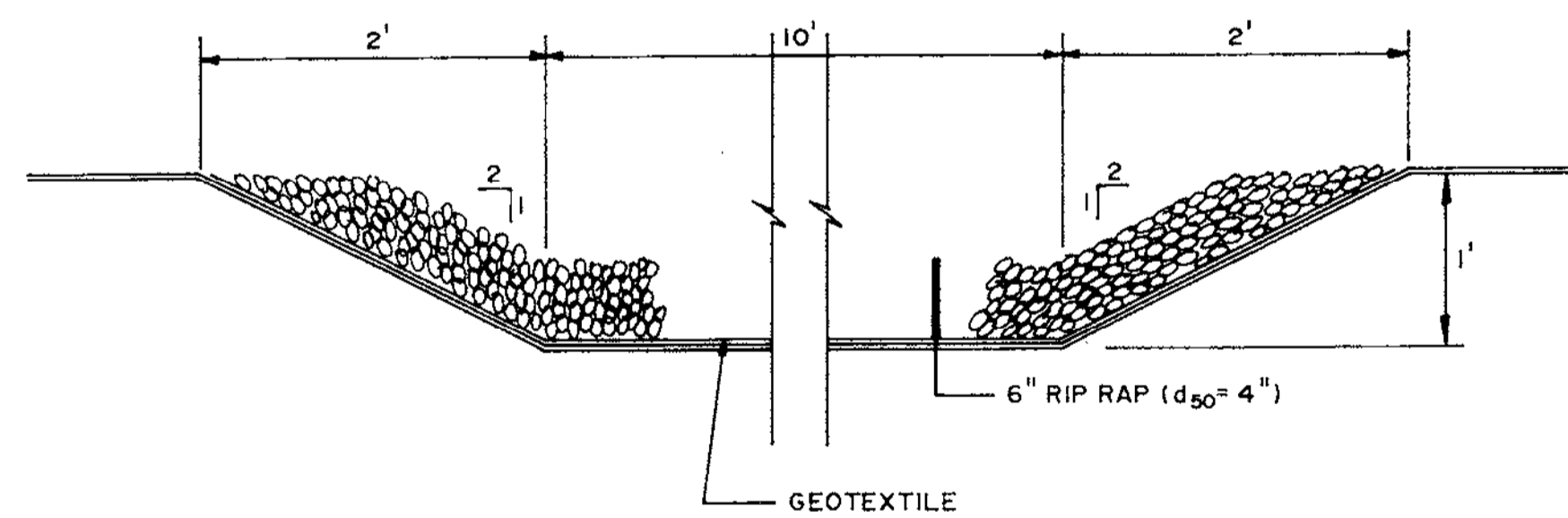
LEVEL SPREADER D
YB-23042



STONE CHECK DAM F
N.T.S. YB-23042

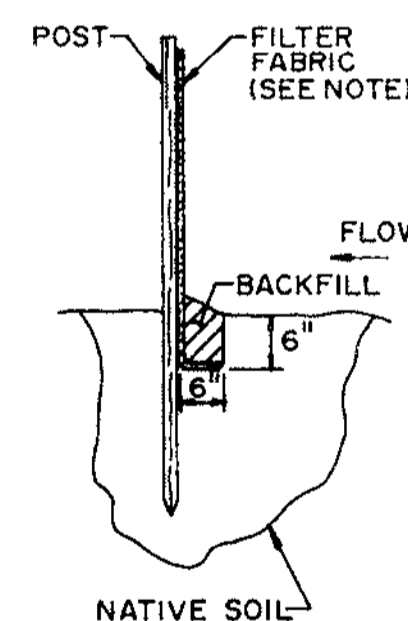


SECTION 9
N.T.S.

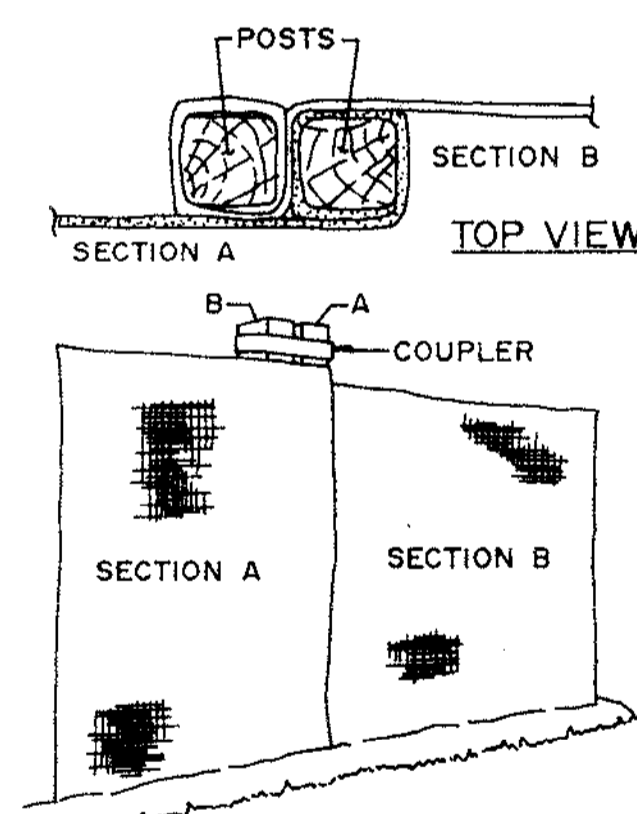


POND SPILLWAY C
N.T.S. YB-23042

NOTE: SILTATION FENCE SHALL BE ENVIROFENCE AS MANF. BY MIRAFI INC., PROPEX SILT STOP AS MANF. BY AMOCO FABRICS CO. OR EQUAL



TOE-IN DETAIL



JOINING SECTIONS

SILTATION FENCE E
N.T.S. YB-23042



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 94028

DRN	
CKD	
CKD	
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APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. T.O.C. - CONST	
SCALE	N.T.S.



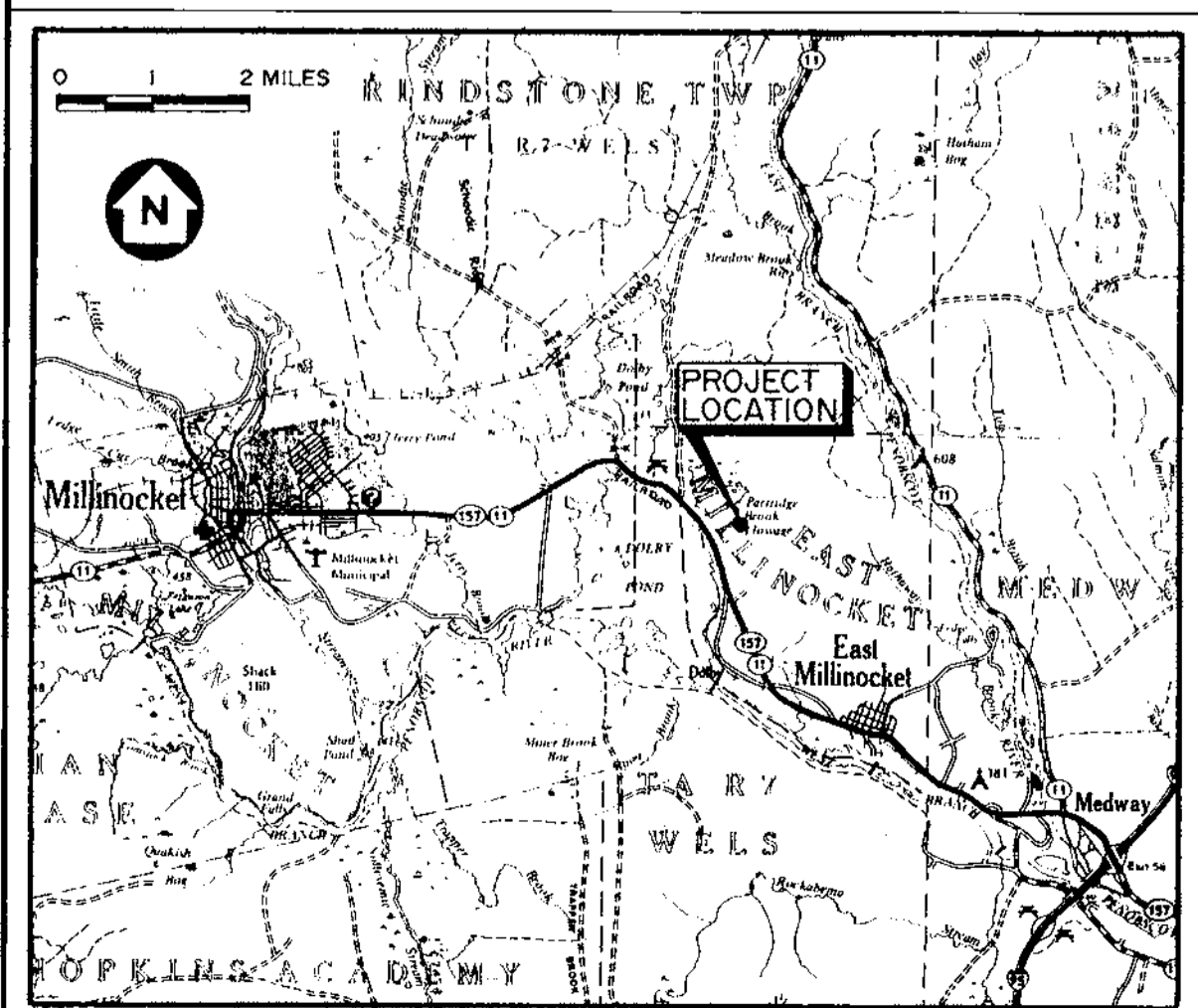
EAST OPERATION
DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SECTIONS & DETAILS
JOB NO. 94654
ENG. REQ. NO. _____
FILE NO. 2-092-4703, 7082
YB-23044
SHEET 2 OF 2

GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY III LANDFILL CELL 10 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-23378
2	SYMBOLS & ABBREVIATIONS	YB-23379
3	SITE LOCATION PLAN	YB-23380
4	CELL 10 - SITE DEVELOPMENT PLAN	YB-23381
5	CELLS 7 & 8 CLOSURE - FINAL GRADING PLAN	YB-23382
6	CELL 10 - FINAL GRADING PLAN	YB-23383
7	SECTIONS & DETAILS	YB-23384 SHEET 1 OF 2
8	SECTIONS & DETAILS	YB-23384 SHEET 2 OF 2

**SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE**

1995



<p>SEVEE & MAHER ENGINEERS, INC. CONSULTING ENGINEERS CUMBERLAND CENTER, MAINE</p> <p>JOB NO. 95019</p>	<table border="1"> <tr><td>DRN</td><td></td></tr> <tr><td>CHK</td><td></td></tr> <tr><td>CHK</td><td></td></tr> <tr><td>CORR</td><td></td></tr> <tr><td>APPVD</td><td></td></tr> <tr><td colspan="2">ISSUE CODE</td></tr> <tr><td>P - Prelim</td><td>B - Bids</td></tr> <tr><td>M - Mtl T.O.</td><td>C - Const.</td></tr> <tr><td>SCALE</td><td></td></tr> </table>	DRN		CHK		CHK		CORR		APPVD		ISSUE CODE		P - Prelim	B - Bids	M - Mtl T.O.	C - Const.	SCALE		<p>BOWATER Great Northern Paper</p>	<p>EAST OPERATION</p> <p>DOLBY III LANDFILL CELL 10 CONSTRUCTION</p> <p>COVER SHEET</p> <p>JOB NO. _____ ENG. REQ. NO. _____ FILE NO. 2-092-4703,7082</p> <p style="font-size: 24pt; font-weight: bold;">YB-23378</p>
DRN																					
CHK																					
CHK																					
CORR																					
APPVD																					
ISSUE CODE																					
P - Prelim	B - Bids																				
M - Mtl T.O.	C - Const.																				
SCALE																					

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EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
	NORTH ARROW (MAGNETIC)		STONE WALL		MANHOLE
	NORTH ARROW (PLAN NORTH)		DRAINAGE COURSE (WITH DIRECTION)		CATCH BASIN
	CONTOUR LINES		EDGE OF WATER		WATER VALVE
	SPOT ELEVATION (GRADE)		WATER ELEVATION (GROUND OR SURFACE)		HYDRANT
	EXISTING GROUND		FENCE LINE (WOOD)		UTILITY POLE
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		FENCE LINE (WIRE)		CLEAN OUT STRUCTURE
	PROPERTY LINE OR R.O.W.		RETAINING WALL		UNDERGROUND GAS MAIN
	PROPERTY LINE W/ BEARING AND DISTANCE		GUARD RAIL		UNDERGROUND TELEPHONE LINE
	CONSTRUCTION BASELINE		BUILDING AND STRUCTURES		UNDERGROUND ELECTRICAL LINE
	BOUNDARY LINE (State, County, Municipality)		SLOPE RATIO (HORIZONTAL TO VERTICAL)		OVERHEAD ELECTRICAL LINE
	SURVEY MONUMENT		SLOPES (WITH SLOPE RATIO)		SANITARY SEWER, SIZE & TYPE
	SURVEY IRON		EDGE OF TRAVELLED WAY		FORCE MAIN, SIZE & TYPE
	DRILL HOLE, PK, OR STAKE		CUT OR FILL LINE		WATER MAIN, SIZE & TYPE
	WOODS OR BRUSH LINE		CONSTRUCTION LIMIT LINE		STORM DRAIN, SIZE & TYPE
	INDIVIDUAL TREE (Deciduous)		BITUMINOUS PAVEMENT		UNDERDRAIN, SIZE & TYPE
	INDIVIDUAL TREE (Coniferous)		CONCRETE		CULVERT
	TREE, TO BE REMOVED		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		RAILROAD
	MARSH AREA		TEST PIT AND NUMBER		SILTATION FENCE

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW - MDOT SPECIFICATION 703.18
ROADWAY SUBBASE - MDOT SPECIFICATION 703.06 TYPE "D"
ROADWAY SUBBASE - MDOT SPECIFICATION 703.06 TYPE "G"
ROADWAY SURFACE COURSE - MDOT SPECIFICATION 703.10

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET - MDOT SPECIFICATION 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE - SDR 21

12" PVC PIPE - SDR 26

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 10 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED: TALL FESCUE 59%
RED FESCUE 25%
RED TOP 5%
LADINO CLOVER 3%
ANNUAL RYEGRASS 8%

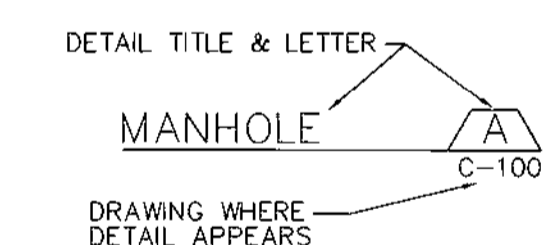
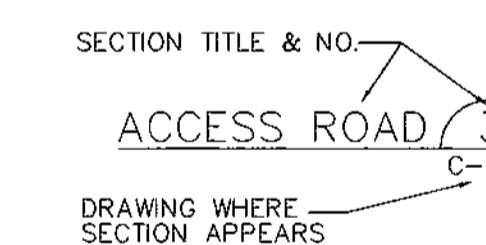
THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

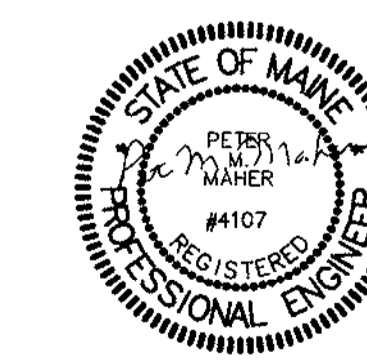
INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION



A.C.C.M.P.	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE (ARC DEF.)	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	P.I.	POINT OF INTERSECTION
AC	ACRE	DEG OR °	DEGREE	HYD	HYDRANT	P.T.	POINT OF TANGENT
AGG	AGGREGATE	DEPT	DEPARTMENT	I.D.	INSIDE DIAMETER	PERF	PERFORATED
ALUM	ALUMINUM	DI	DIAMETER	IN OR "	INCHES	PSI	POUNDS PER SQUARE INCH
APPD	APPROVED	DIA OR Ø	DIA	INV	INVERT	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	DIM	DIMENSION	INV. EL	INVERT ELEVATION	PVMT	PAVEMENT
ASB	ASBESTOS	DIST	DISTANCE	LB	POUND	QTY	QUANTITY
ASPH	ASPHALT	DN	DOWN	LC	LEACHATE COLLECTION	R.O.W.	RIGHT OF WAY
AUTO	AUTOMATIC	DR	DRAIN	LD	LEAK DETECTION	RAD	RADIUS
AUX	AUXILIARY	DWG	DRAWING	LD	LEAK DETECTION	REQD	REQUIRED
AVE	AVENUE	EA	EACH	LOC	LOCATION	RT	RIGHT
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LT	LEFT	RTE	ROUTE
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	ELEC	ELECTRIC	M.H.	MANHOLE	S	SLOPE
B.M.	BENCH MARK	EL	ELEVATION	M.J.	MECHANICAL JOINT	SCH	SCHEDULE
BIT	BITUMINOUS	ELB	ELBOW	MATI	MATERIAL	SF	SQUARE FEET
BLDG	BUILDING	EQUIP	EQUIPMENT	MAX	MAXIMUM	SD	STORM DRAIN
BOT	BOTTOM	EST	ESTIMATED	MFR	MANUFACTURE	SDR	STANDARD DIMENSION RATIO
BRG	BEARING	EXC	EXCAVATE	MIN	MINIMUM	SHT	SHEET
C.B.	CATCH BASIN	EXIST	EXISTING	MISC	MISCELLANEOUS	STA	STATION
CEN	CENTER	F.G.	FINISH GRADE	MON	MONUMENT	SY	SQUARE YARD
CEM. LIN.	CEMENT LINED	FBRGL	FIBERGLASS	N.I.T.C.	NOT IN THIS CONTRACT	TAN	TANGENT
C.M.P.	CORRUGATED METAL PIPE	FDN	FOUNDATION	N.T.S.	NOT TO SCALE	TDH	TOTAL DYNAMIC HEAD
C.O.	CLEAN OUT	FLEX	FLEXIBLE	N/F	NOW OR FORMERLY	TEMP	TEMPORARY
CF	CUBIC FEET	FLG	FLANGE	NO. OR #	NUMBER	TYP	TYPICAL
CFS	CUBIC FEET PER SECOND	FLR	FLOOR	O.C.	ON CENTER	V	VOLTS
CI	CAST IRON	FPS	FEET PER SECOND	O.D.	OUTSIDE DIAMETER	W/	WITH
CL	CLASS	FT OR '	FEET			W/O	WITHOUT
CONC	CONCRETE	FTG	FOOTING			YD	YARD
CONST	CONSTRUCTION	GAL	GALLON				
CONTR	CONTRACTOR	GALV	GALVANIZED				
CTR	CENTER	GPD	GALLONS PER DAY				
CY	CUBIC YARD	GPM	GALLONS PER MINUTE				



SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

EAST OPERATION

DOLBY III LANDFILL
CELL 10 CONSTRUCTION

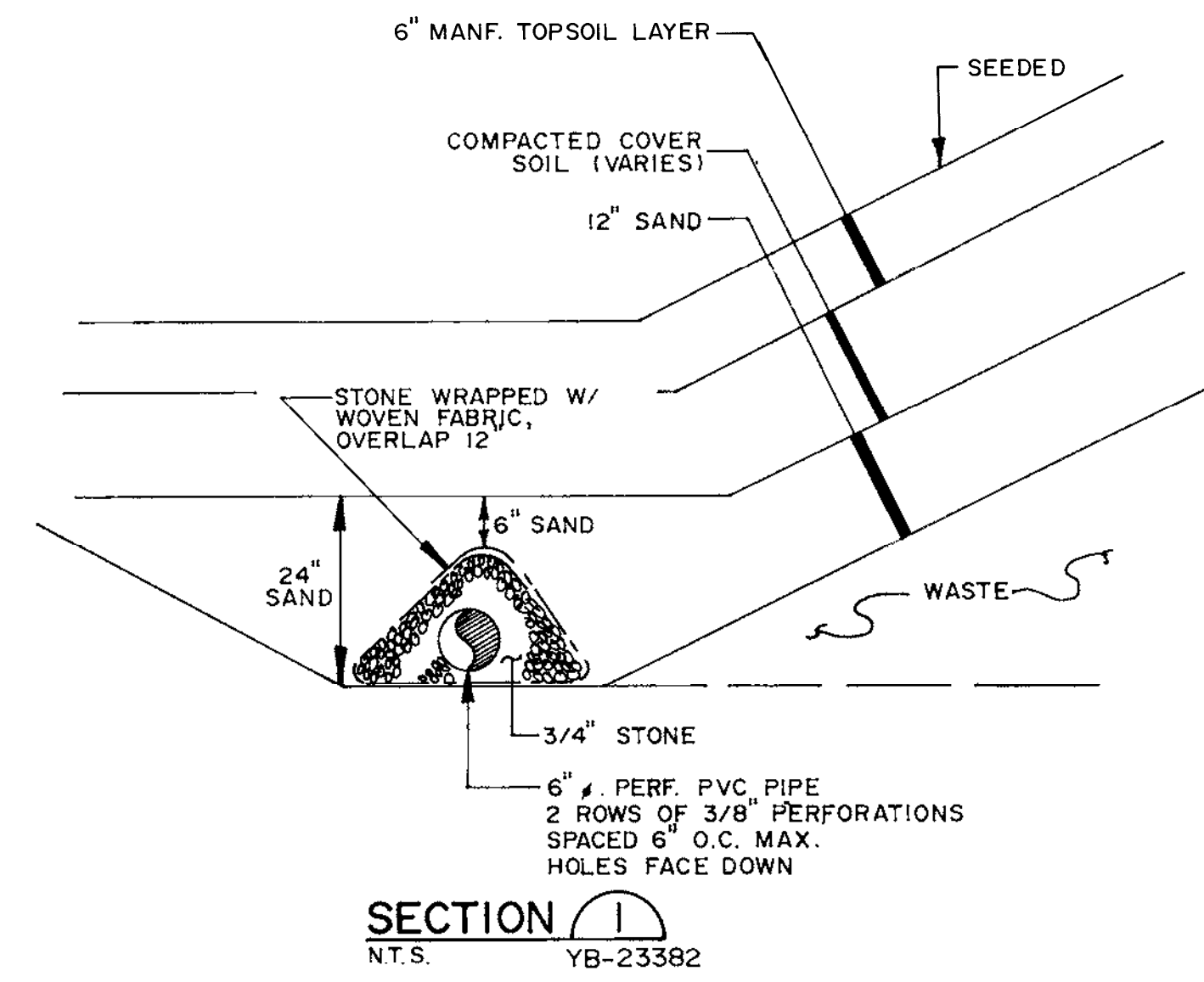
SYMBOLS & ABBREVIATIONS

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703,7082

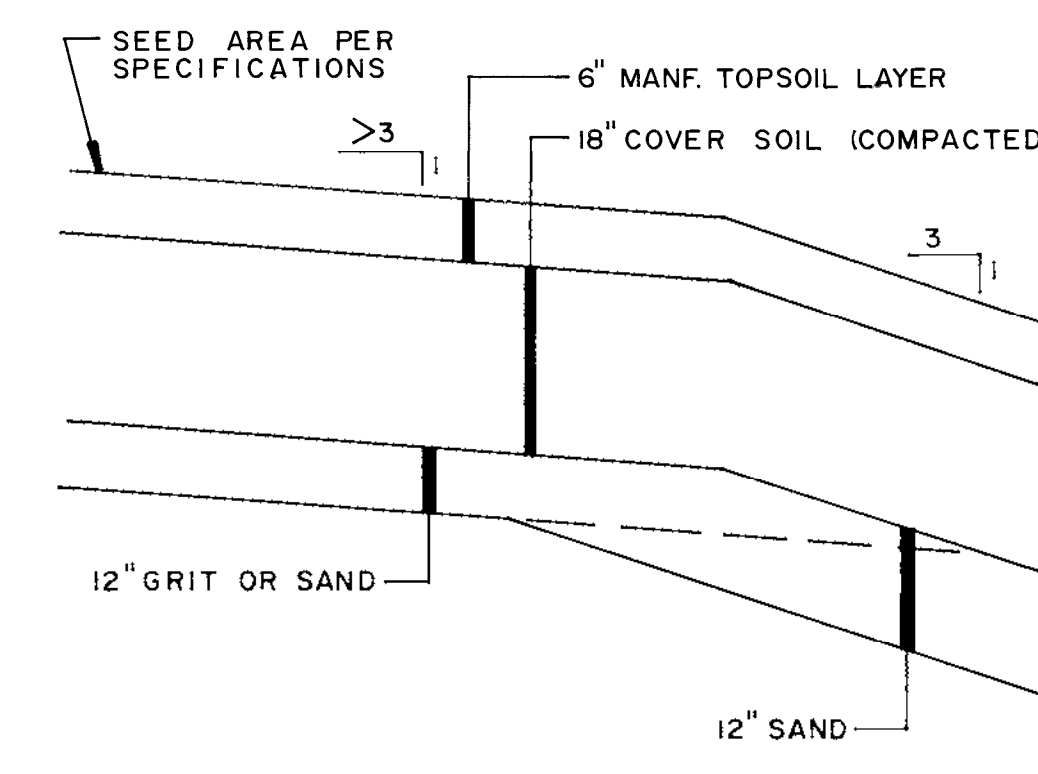
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APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mfr T.O.	C - Const.
SCALE	



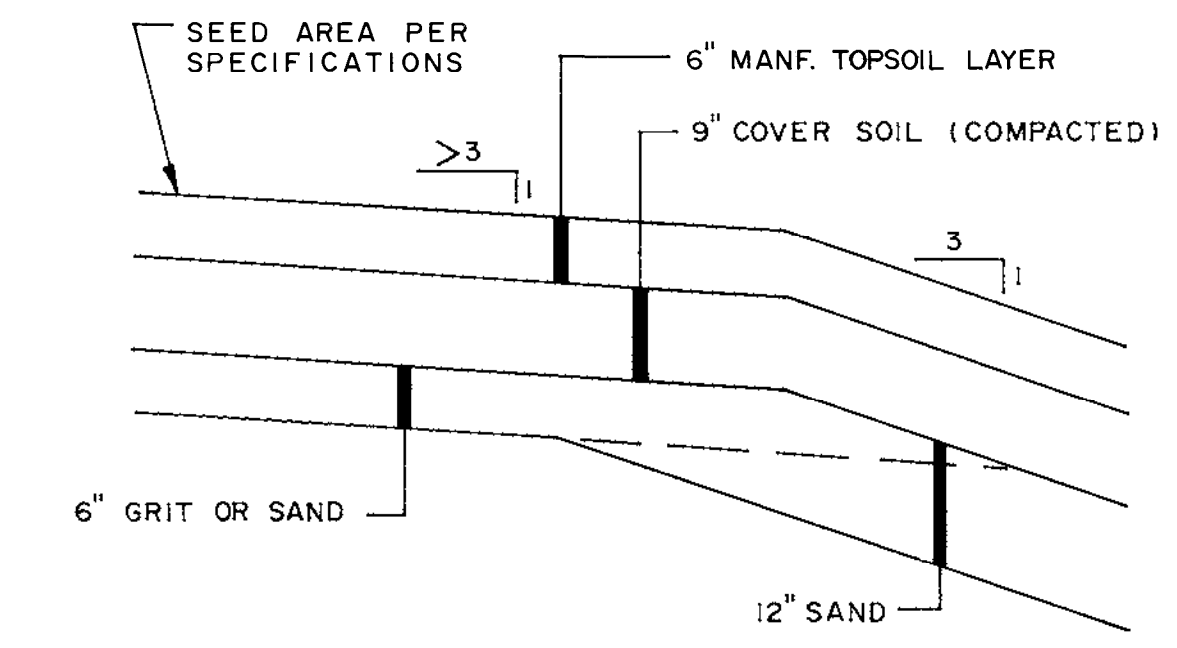
YB-23379



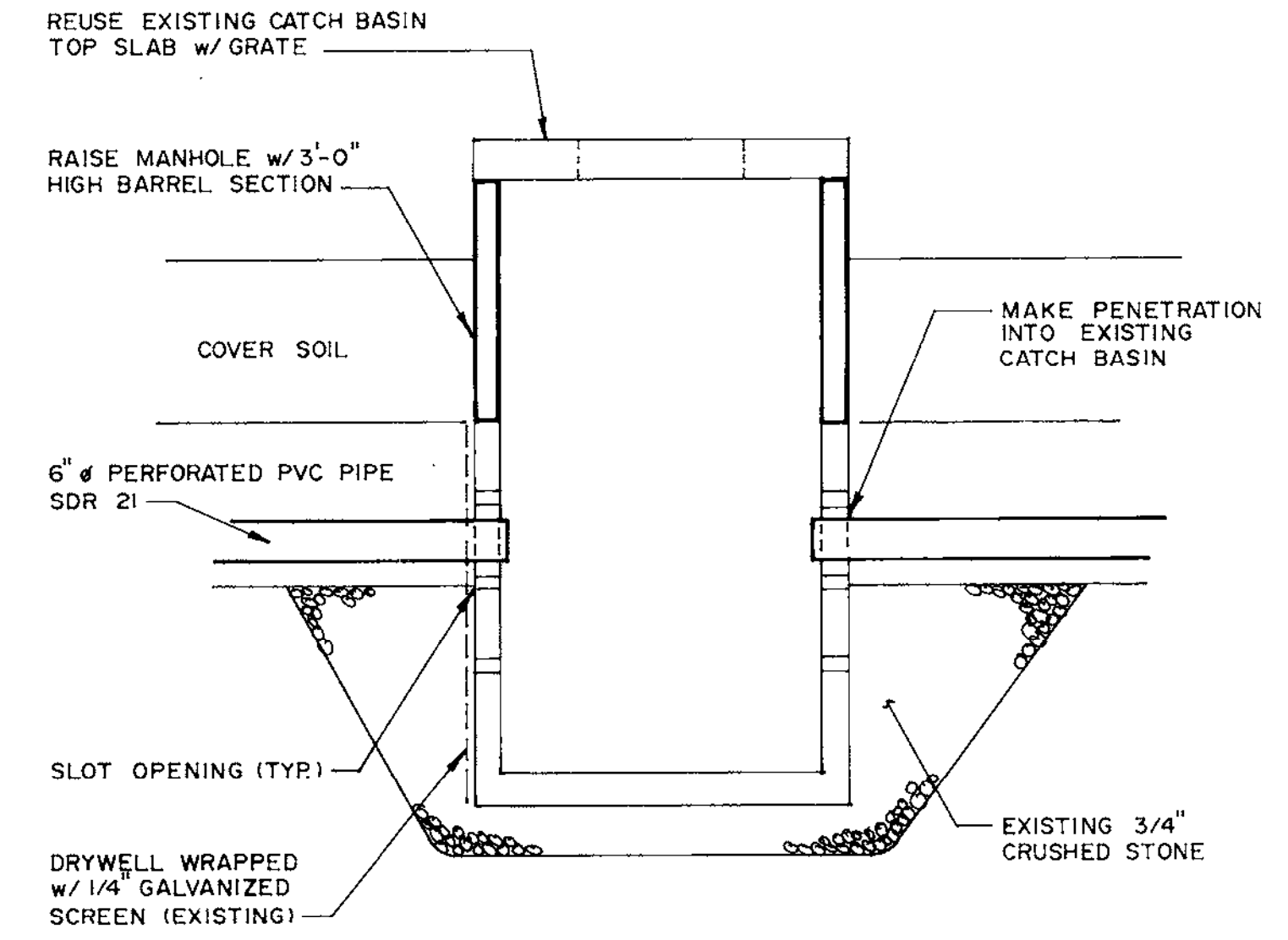
SECTION 1
N.T.S. YB-23382



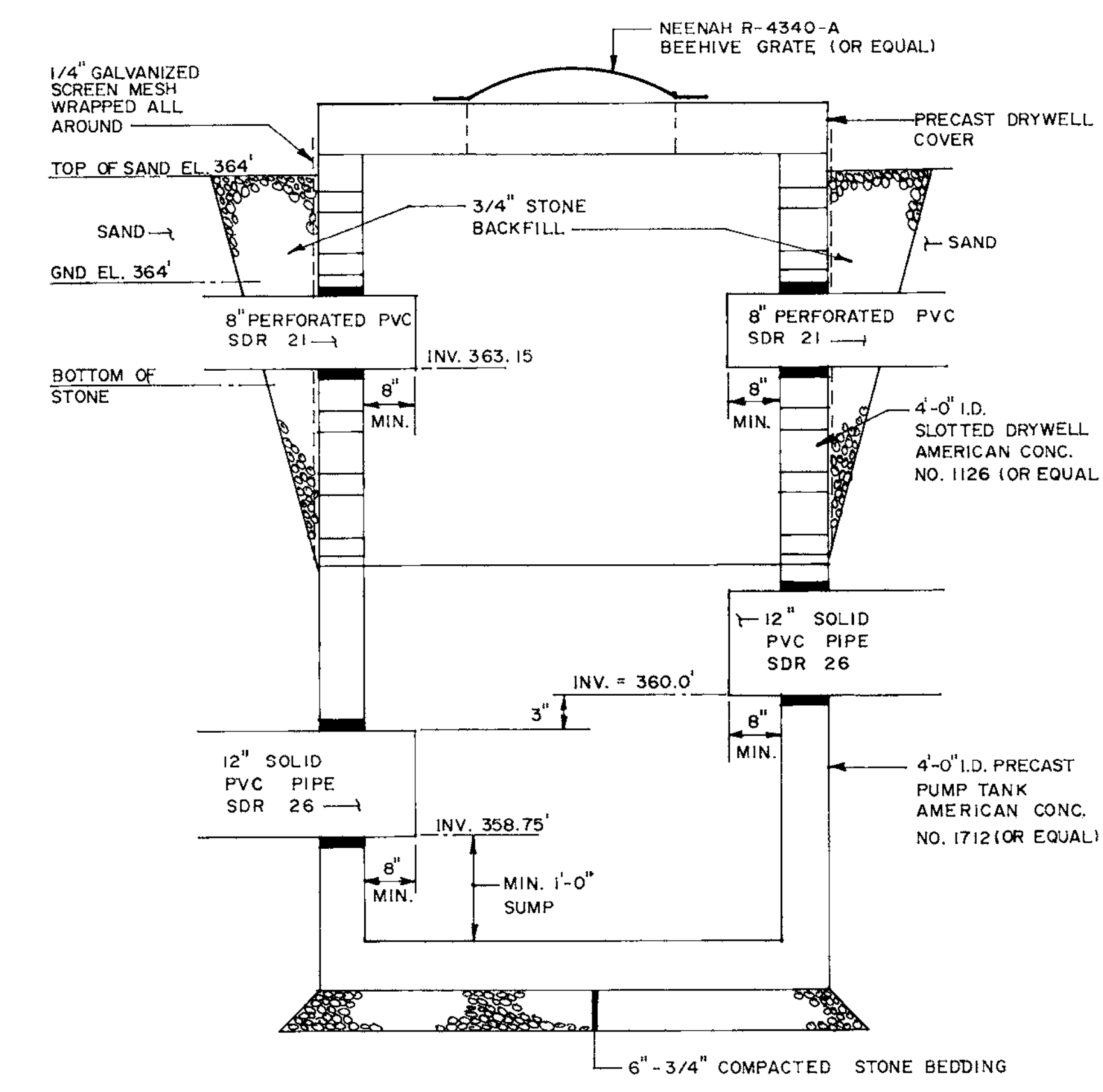
FINAL COVER SECTION 2
N.T.S. YB-23382



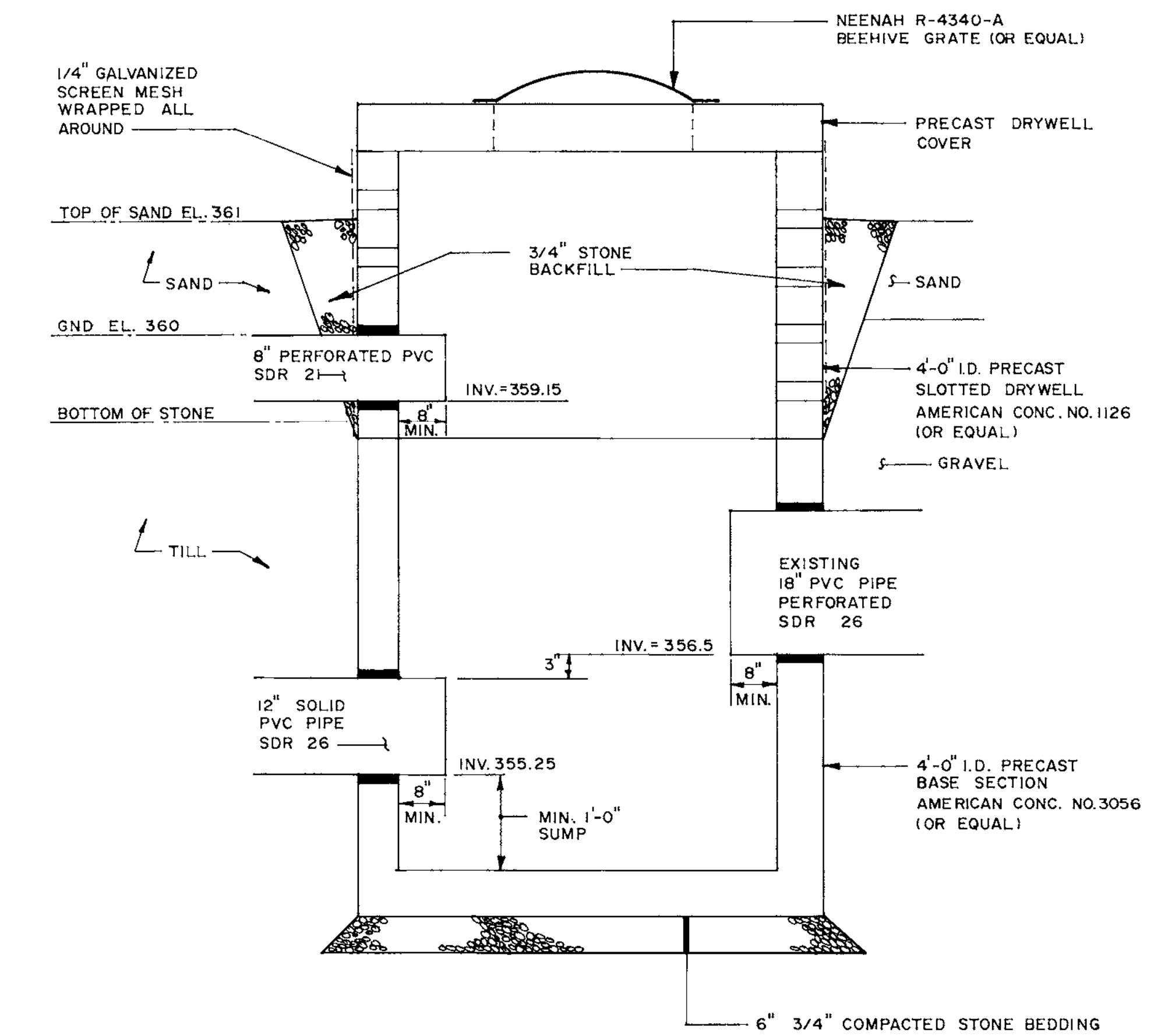
INTERMEDIATE SLOPE COVER SECTION 3
N.T.S. YB-23382



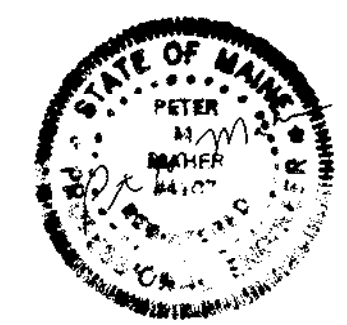
DRAINAGE MANHOLE 4
N.T.S. (EXISTING) YB-23382



CATCH BASIN # 32 A
N.T.S. YB-23381



CATCH BASIN # 31 B
N.T.S. YB-23381



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		C		8/95	ISSUED FOR CONSTRUCTION				
		B		5/95	SUBMITTED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND, MAINE

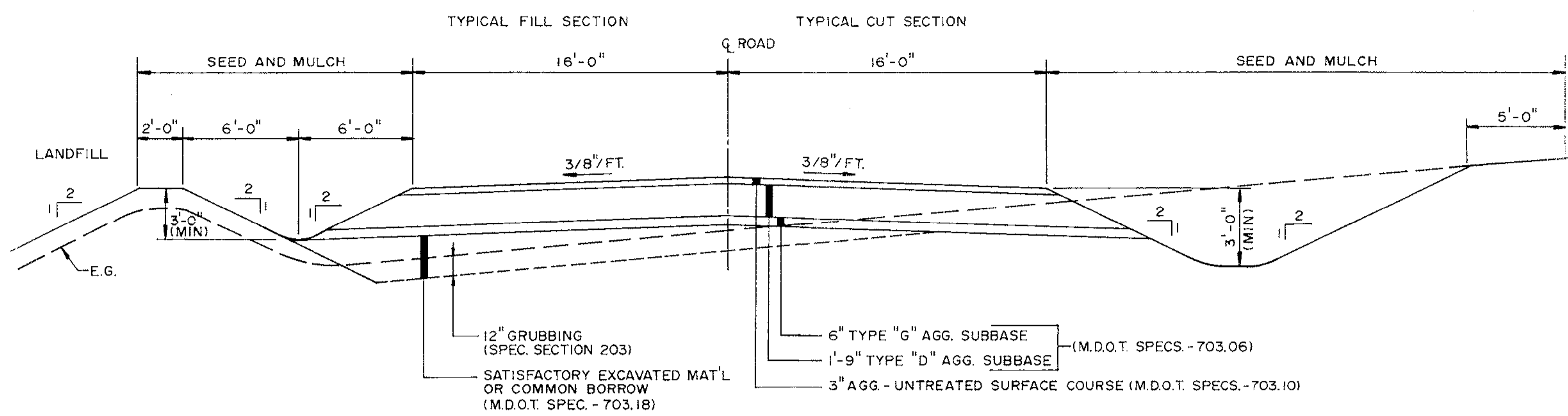
JOB NO. 95019

DRN	HAH
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ISSUE CODE	
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M - MTL. O.C. CONST.	
SCALE	N.T.S.

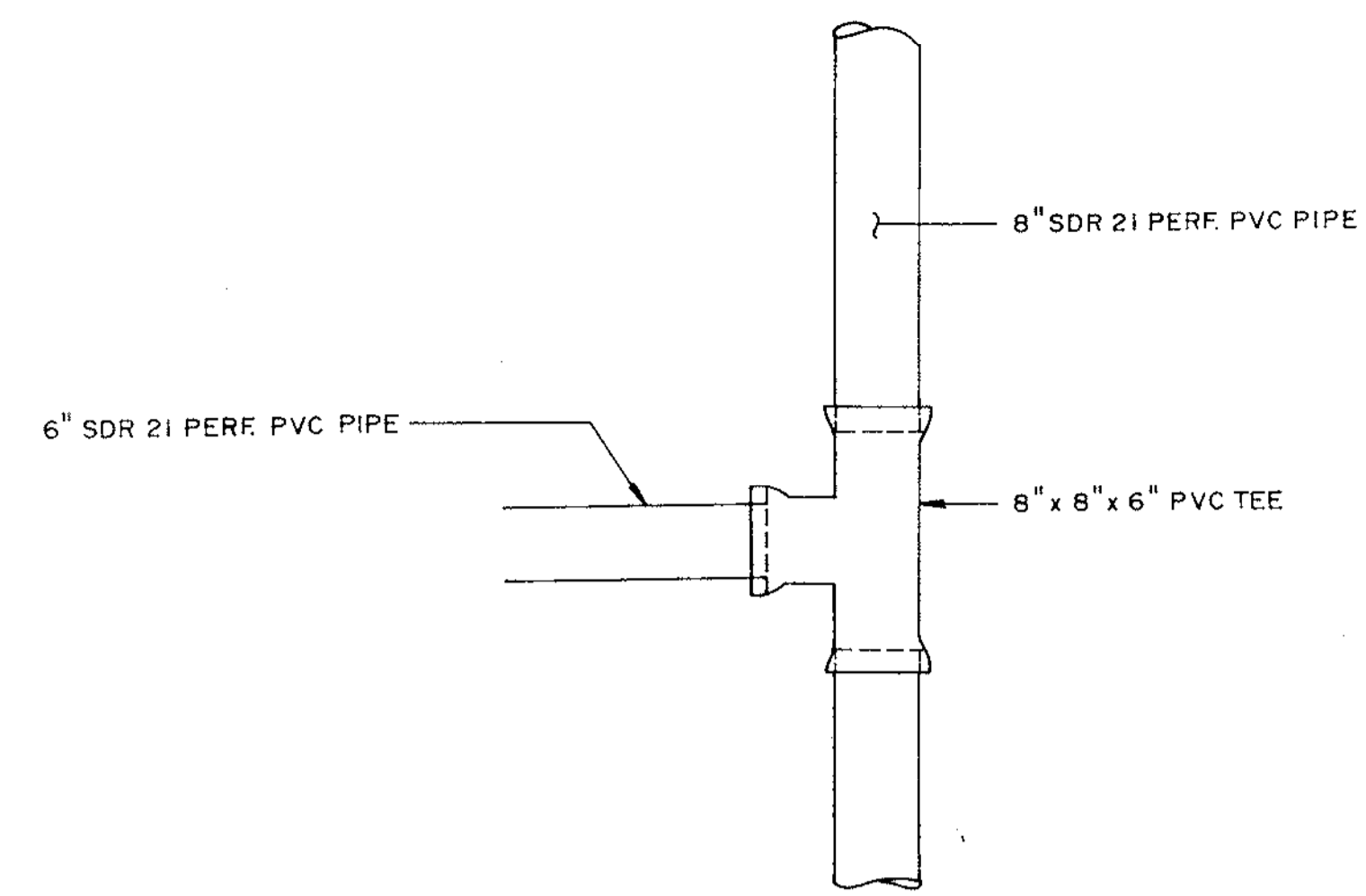


EAST OPERATION
DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SECTIONS & DETAILS
JOB NO. 94678
ENG. REQ. NO. _____
FILE NO. 2-092-4703.7082
YB-23384
SHEET 1 OF 2

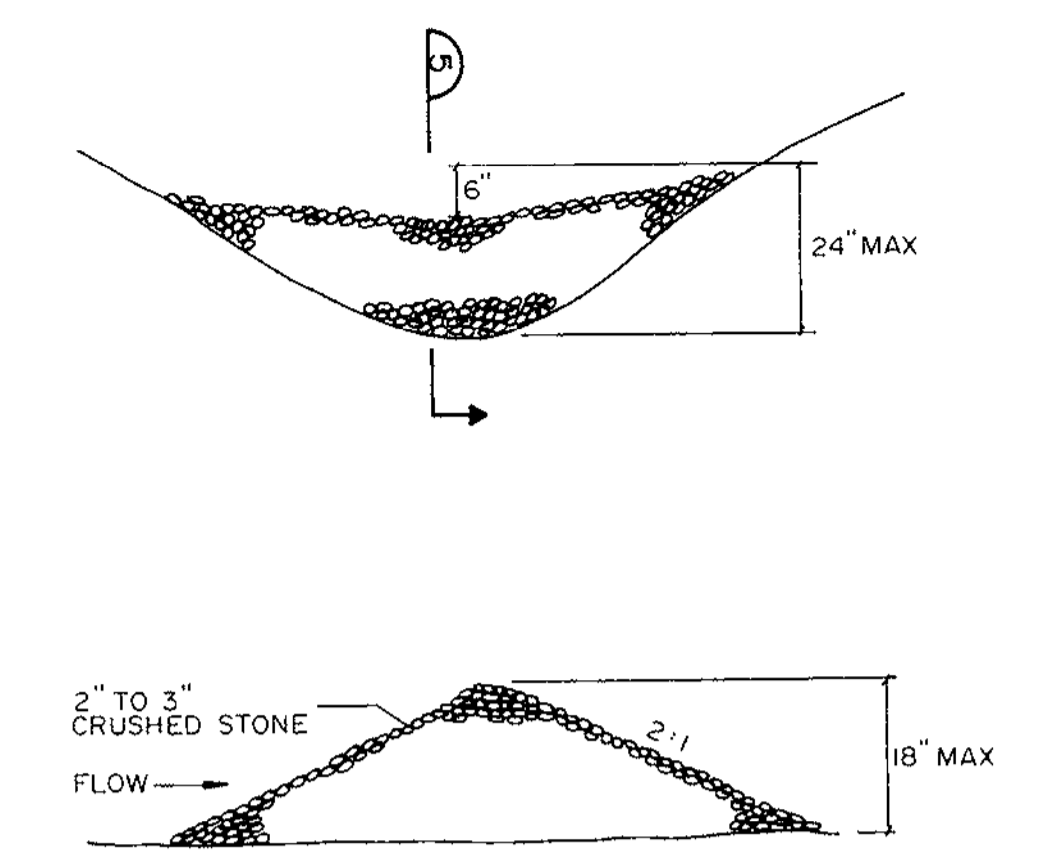
A B C D E F G H I J K L M N O P Q



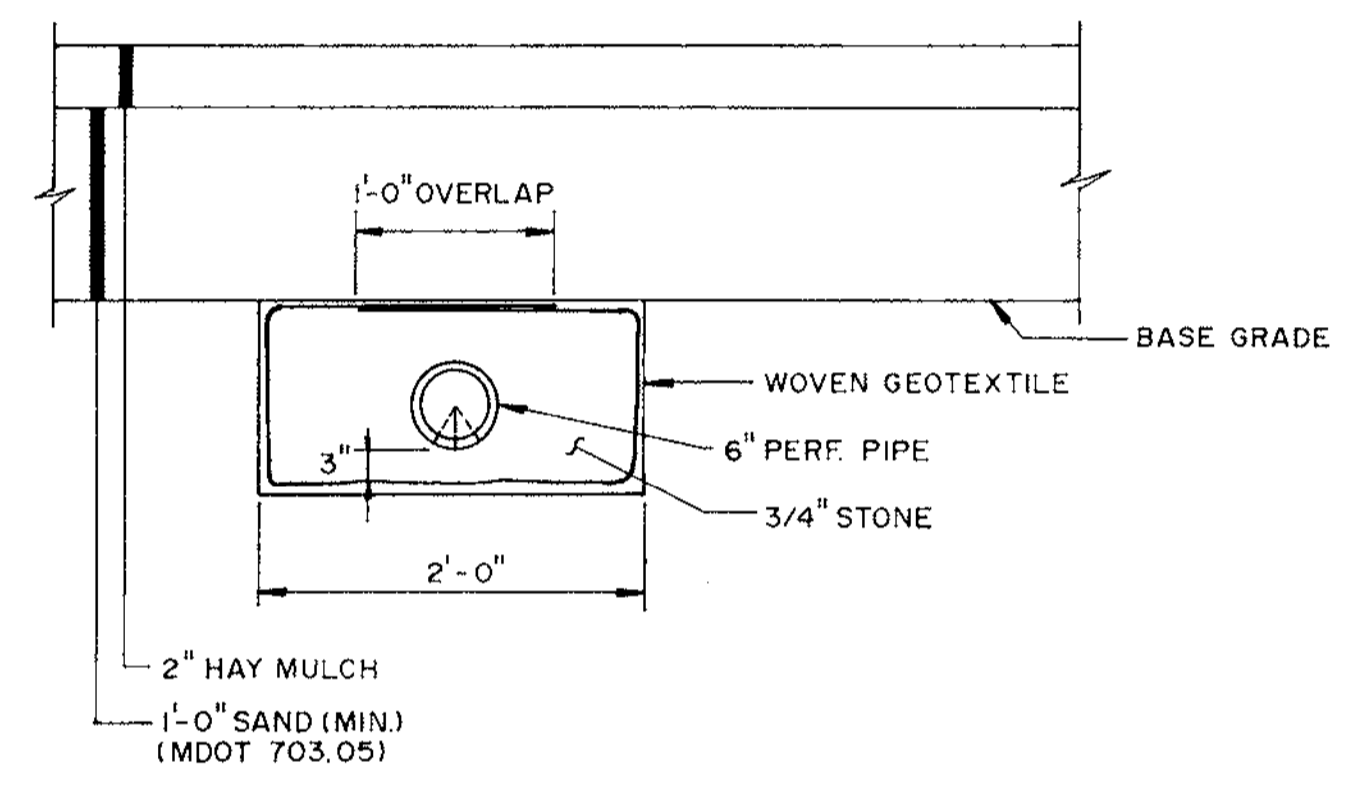
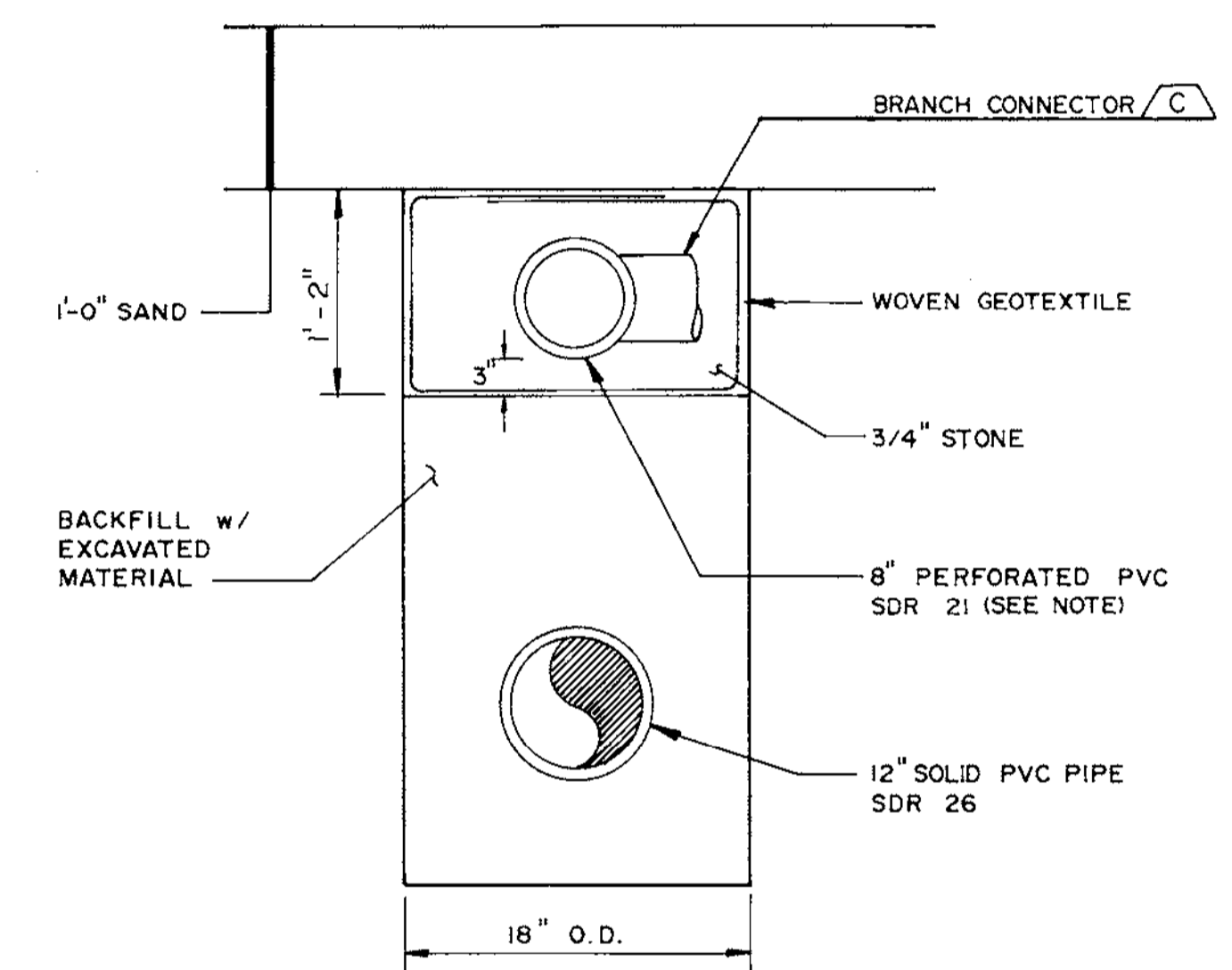
TYPICAL SECTION
LANDFILL ACCESS ROAD
NTS



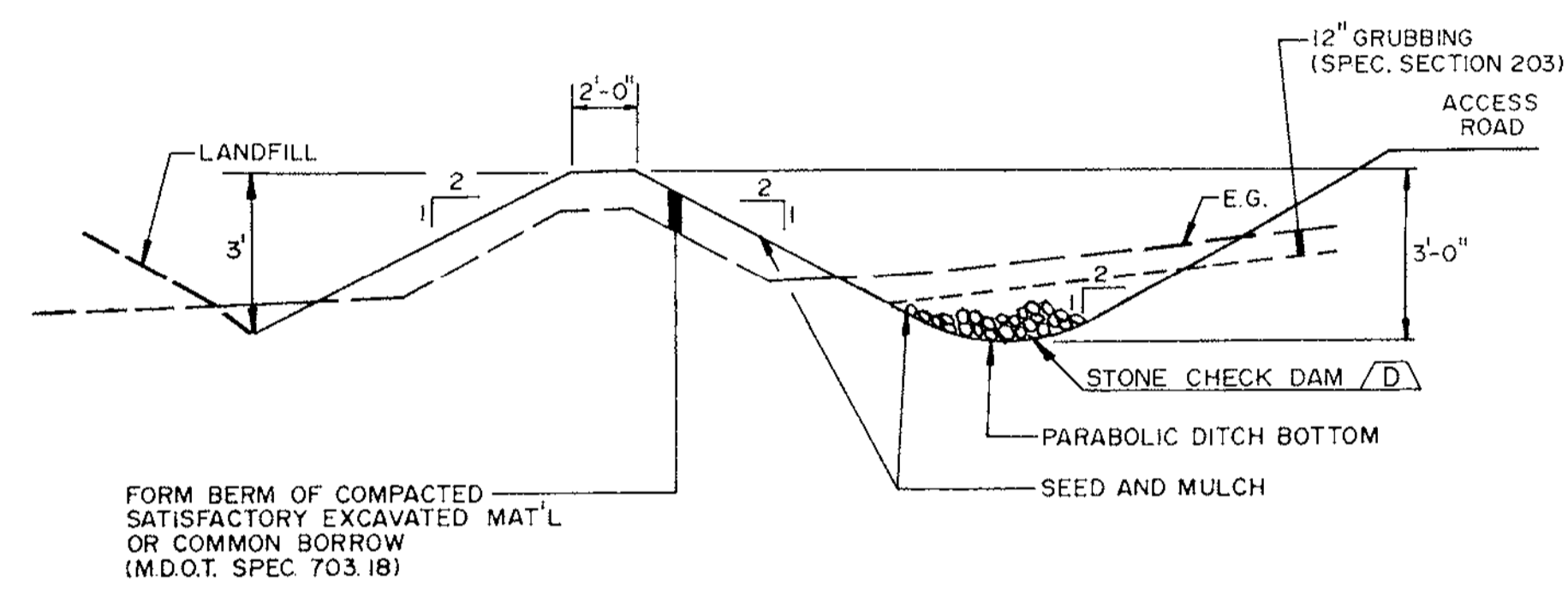
BRANCH CONNECTOR / C
N.T.S. YB-23381



SECTION 5
STONE CHECK DAM / D
N.T.S. YB-23381



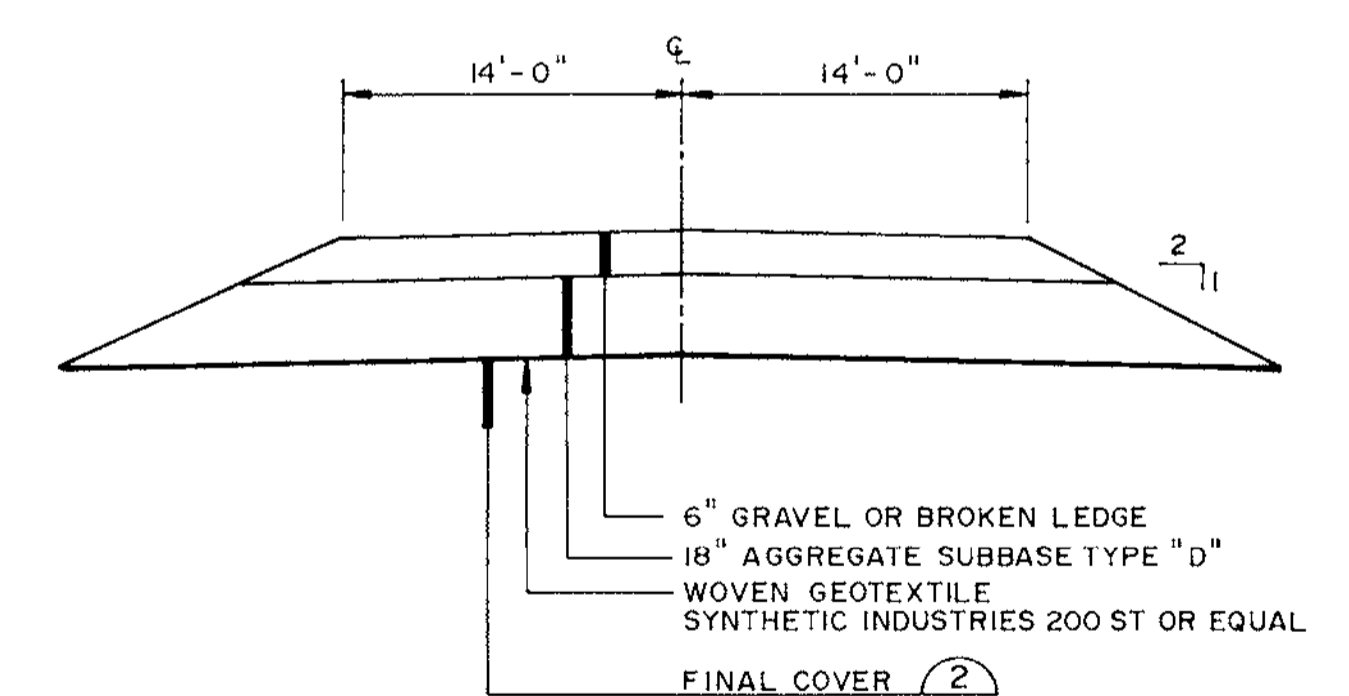
6-IN. LEACHATE COLLECTION PIPE / 8
N.T.S. YB-23381



DIKE AND TYPE 2 DRAINAGE DITCH / 7
N.T.S. YB-23381

NOTE
PIPE PERFORATIONS SHALL BE
3/8" HOLES, 6" O.C., 2 ROWS.
ROWS SHALL BE MINIMUM 45"
MAXIMUM 60" FROM INVERT OF
PIPE. HOLES SHALL FACE DOWN.

12-IN., 8-IN. LEACHATE COLLECTION PIPES / 6
N.T.S. YB-23381



ACCESS ROAD / 9
N.T.S. YB-23382



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB No.
		C	8/95		ISSUED FOR CONSTRUCTION				
		B	5/95		SUBMITTED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 95019

DRN	HAM
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CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL. O. C. CONST	
SCALE N.T.S.	



EAST OPERATION
DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SECTIONS & DETAILS

JOB NO. 94678
ENG. REG. NO.
FILE NO. 2-092-4703.7082

YB-23384
SHEET 2 OF 2

172202

GREAT NORTHERN PAPER, INC. A SUBSIDIARY OF BOWATER INCORPORATED MILLINOCKET, MAINE DOLBY III LANDFILL CELL 11 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-25219
2	SYMBOLS & ABBREVIATIONS	YB-25220
3	EXISTING CONDITIONS PLAN	YB-25221
4	CELL 11 - SITE DEVELOPMENT PLAN	YB-25222
5	FINAL GRADING PLAN	YB-25223
6	SECTIONS & DETAILS	YB-25224

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine



DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mt. T.O.	C - Const.
SCALE NONE	



EAST OPERATION	
DOLBY III LANDFILL CELL 11 CONSTRUCTION	
COVER SHEET	
JOB NO. 84744	YB-25219
ENG. REG. NO.	
FILE NO. 2-092-7082	

99070.00

SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		STONE WALL		MANHOLE		CATCH BASIN		WATER VALVE
	CONTOUR LINES		EDGE OF WATER		DRAINAGE COURSE (WITH DIRECTION)		HYDRANT		UTILITY POLE		CLEAN OUT STRUCTURE
	SPOT ELEVATION (GRADE)		FENCE LINE (WOOD)		UNDERGROUND GAS MAIN		UNDERGROUND TELEPHONE LINE		UNDERGROUND ELECTRICAL LINE		OVERHEAD ELECTRICAL LINE
	EXISTING GROUND		FENCE LINE (WIRE)		RETAINING WALL		SANITARY SEWER (SIZE & TYPE)		FORCE MAIN (SIZE & TYPE)		WATER MAIN (SIZE & TYPE)
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		GUARD RAIL		CLEARING LIMIT LINE		STORM DRAIN (SIZE & TYPE)		UNDERDRAIN (SIZE & TYPE)		CULVERT
	PROPERTY LINE OR R.O.W.		BUILDING AND STRUCTURES		SILTATION FENCE		PERIMETER DRAIN (SIZE & TYPE)		LEACHATE TRANSPORT (SIZE & TYPE)		LEACHATE COLLECTION (SIZE & TYPE)
	PROPERTY LINE W/ BEARING AND DISTANCE		SLOPE RATIO (HORIZONTAL TO VERTICAL)		LEAK DETECTION, SIZE & TYPE		TERRACE DRAINAGE SWALE		GRAVITY SEWER		SOLID WALL PIPE
	CONSTRUCTION BASELINE		SLOPES (WITH SLOPE RATIO)		RAILROAD						
	BOUNDARY LINE (State, County, Municipality)		EDGE OF TRAVELED WAY		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER						
	SURVEY MONUMENT		CUT OR FILL LINE		TEST PIT AND NUMBER						
	SURVEY IRON		WOODS OR BRUSH LINE								
	DRILL HOLE, PK, OR STAKE		INDIVIDUAL TREE (Deciduous)								
	INDIVIDUAL TREE (Coniferous)		TREE, TO BE REMOVED								
	MAPPED WETLAND		MAPPED WETLAND								

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW - MDOT SPECIFICATION 703.18
 STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET - MDOT SPECIFICATION 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE - SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 11 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

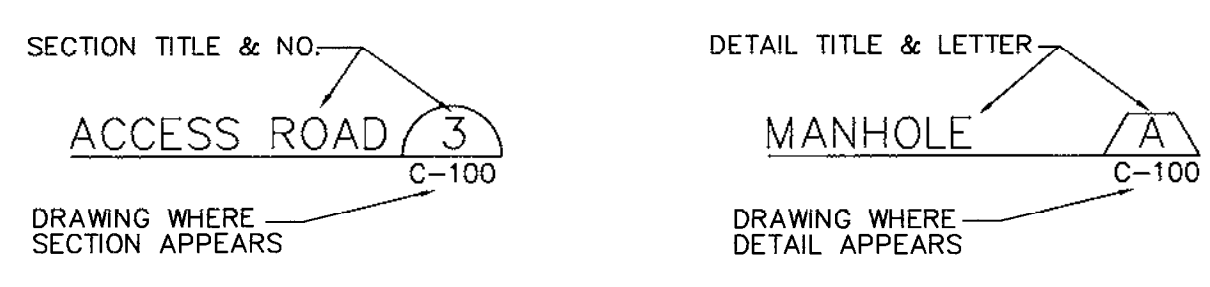
MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

A.C.C.M.P. A.C.P. AC AGG ALUM APPD APPROX ARMH ASB ASPH AUTO AUX AVE AZ B.C.C.M.P. B.M. BIT BLDG BOT BRG C.B. CEN CEM. LIN. C.M.P. C.O. CF CFS CI CL CONC CONSTR CONTR CTR CY	ASPHALT COATED C.M.P. ASBESTOS CEMENT PIPE ACRE AGGREGATE ALUMINUM APPROVED APPROXIMATE AIR RELEASE MANHOLE ASBESTOS ASPHALT OR AUTOMATIC AUXILIARY AVENUE AZIMUTH BITUMINOUS COATED C.M.P. BENCH MARK BITUMINOUS BUILDING BOTTOM BEARING CATCH BASIN CENTER CEMENT LINED CORRUGATED METAL PIPE CLEAN OUT CUBIC FEET CUBIC FEET PER SECOND CAST IRON CLASS CONCRETE CONSTRUCTION CONTRACTOR CENTER CUBIC YARD	DBL DEC OR DEPT DI DIA OR # DIM DIST DN DR DWG EA EG ELEC ELB EQUIP EST EXC EXIST F.G. FBRGL FDN FLEX FLG FLR FPS FT OR FTG GA GAL GALV GPD GPM	DEGREE OF CURVE DOUBLE DIAMETER DEPARTMENT DUCTILE IRON DIAMETER DIMENSION DISTANCE DOWN DRAWING DRAIN DRAWING EACH EXISTING GROUND OR GRADE ELECTRIC ELEVATION ELBOW EQUIPMENT ESTIMATED EXCAVATE EXISTING FINISH GRADE FIBERGLASS FOUNDATION FLEXIBLE FLANGE FLOOR FEET PER SECOND FEET FOOTING GAUGE GALLON GALVANIZED GALLONS PER DAY GALLONS PER MINUTE	HDPE HP HYD I.D. IN OR * INV INV. EL. LB LC LD LIN FT. LOC LT M.H. M.J. MATL MAX MFR MIN MISC MON N.I.T.C. N.T.S. N/F NO. OR # O.C. O.D.	HIGH DENSITY POLYETHYLENE HORSEPOWER HYDRANT INSIDE DIAMETER INCHES INVERT INVERT ELEVATION POUND LEACHATE COLLECTION LEAK DETECTION LINEAR FEET LOCATION LEACHATE TRANSPORT MANHOLE MECHANICAL JOINT MATERIAL MAXIMUM MANUFACTURE MINIMUM MISCELLANEOUS MONUMENT NOT IN THIS CONTRACT NOT TO SCALE NOW OR FORMERLY NUMBER ON CENTER OUTSIDE DIAMETER	P.C. PD P.I. P.T. PERF PSI PVC PVMT QTY R.O.W. RAD REQD RT RTE S SCH SF SHT STA SY TAN TDH TEMP TYP V W/ W/O YD	POINT ON CURVE PERIMETER DRAIN POINT OF INTERSECTION POINT OF TANGENT PERFORATED POUNDS PER SQUARE INCH POLYVINYL CHLORIDE PAVEMENT QUANTITY RIGHT OF WAY RADIUS REQUIRED RIGHT ROUTE SLOPE SCHEDULE SQUARE FEET SHEET STATION SQUARE YARD TANGENT TOTAL DYNAMIC HEAD TEMPORARY TYPICAL VOLTS WITH WITHOUT YARD
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VIEW MARKERS & IDENTIFICATION



CODE	NO.	DATE	REVISION	BY	CHKD	APPRVD	JOB NO.
		7/30/99	SUBMITTED TO CLIENT				

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 Waste Management and Hydrogeologic Consultants
 Cumberland Center, Maine

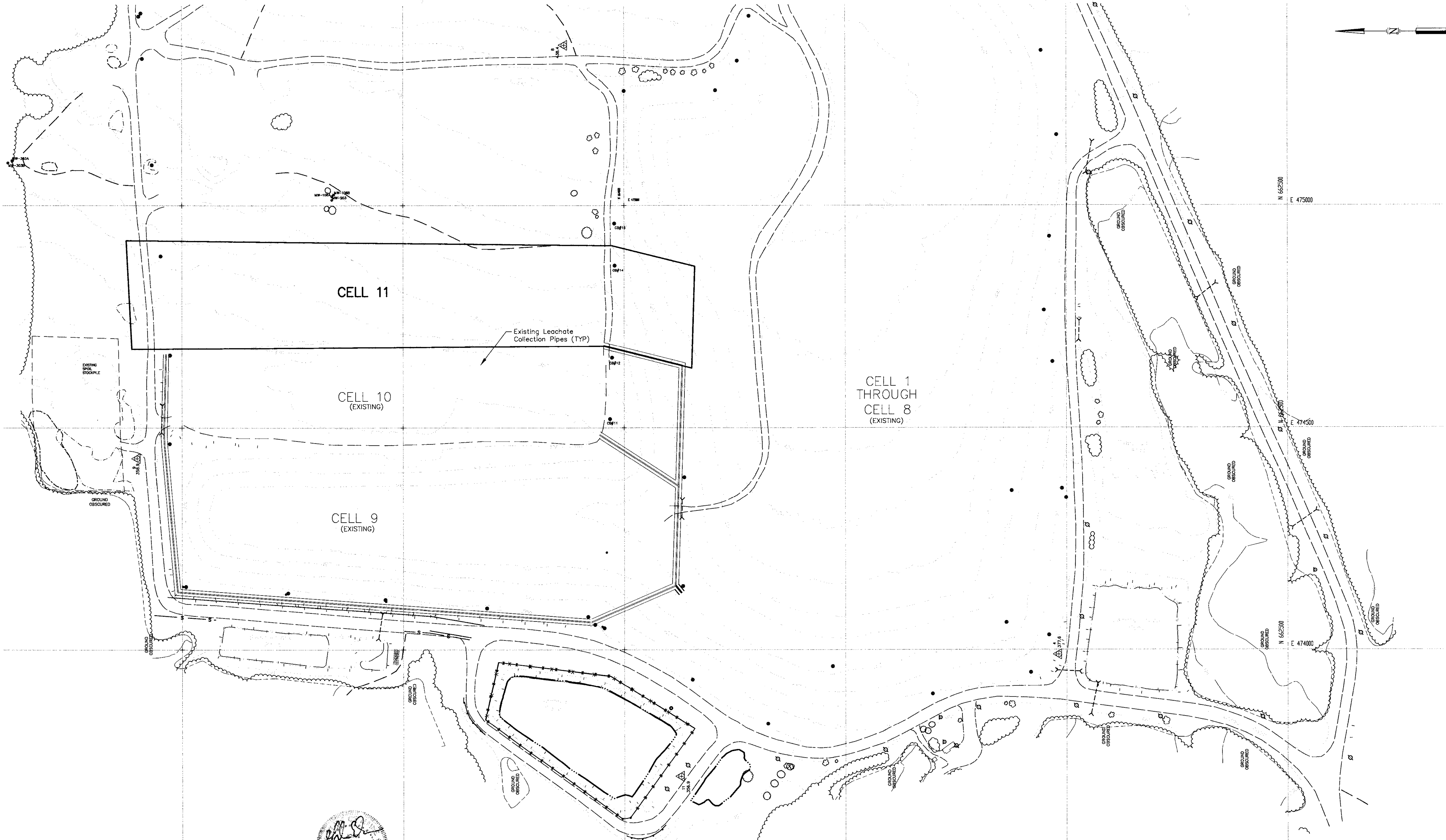
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CHK	GHC
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CORR	
APPRVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mt. T.O.	C - Const.
SCALE AS SHOWN	

BOWATER
 Great Northern Paper

CENTRAL ENGINEERING
 DOLBY III LANDFILL
 CELL 11 CONSTRUCTION
 SYMBOLS & ABBREVIATIONS

JOB NO. 94744
 ENG. REG. NO. _____
 FILE NO. 2-092-7082

YB-25220

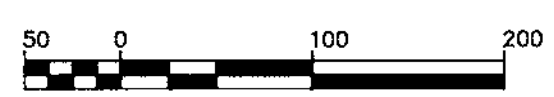
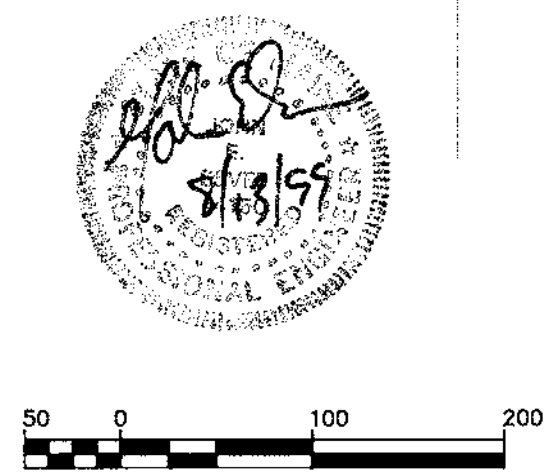


N 662500
E 475000

N 662500
E 474500

N 662500
E 474000

- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.



CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB No.
		7/30/99	SUBMITTED TO CLIENT				JOB NO. 99070

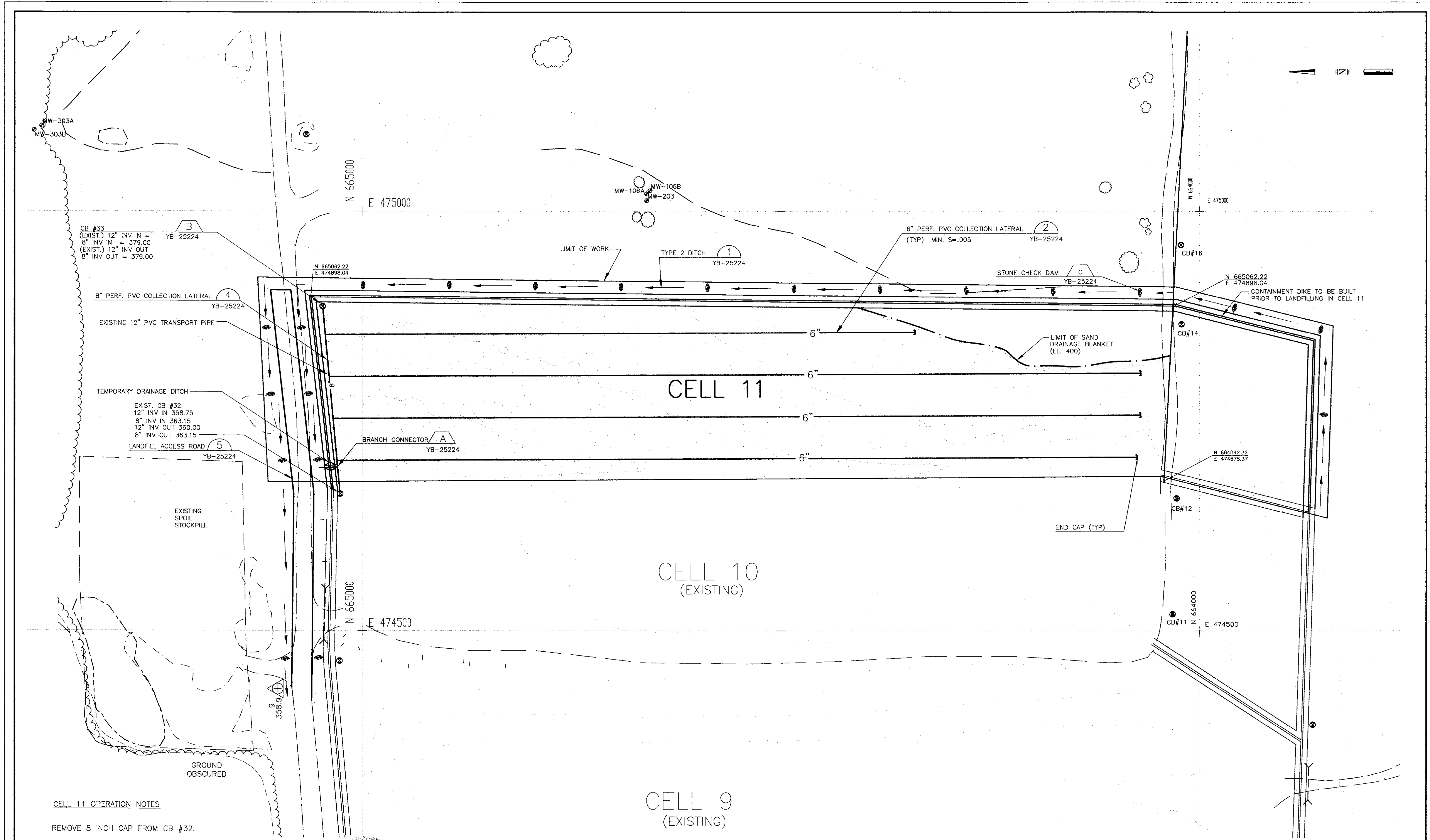
SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
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M - Mtl. T.O.	C - Const.
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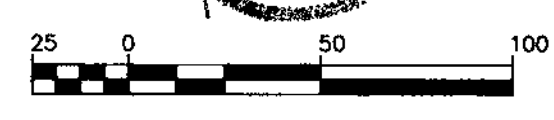
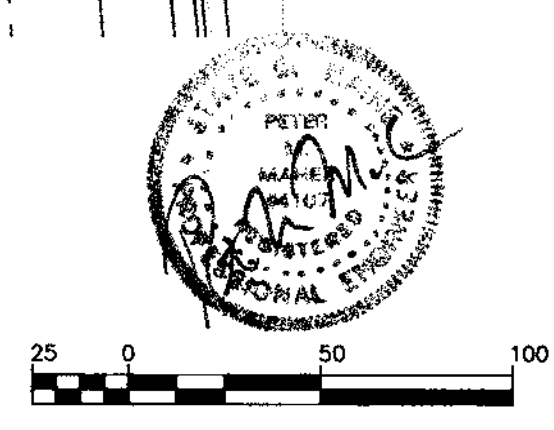
EAST OPERATION
**DOLBY III LANDFILL
CELL 11 CONSTRUCTION**
EXISTING CONDITIONS PLAN
JOB NO. 94744
ENG. REQ. NO. YB-25221
FILE NO. 2-092-7082

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CELL 11 OPERATION NOTES

- REMOVE 8 INCH CAP FROM CB #32.
- REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.
- BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.
- STRIP EXISTING LANDFILL COVER ON CELL 3B.
- REMOVE EXISTING CATCH BASIN COVER ON CELL 3B (CB #14) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVER.



CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB NO.
		12/27/99	RECORD DRAWING				
		7/30/99	SUBMITTED TO CLIENT				

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SCALE	AS SHOWN

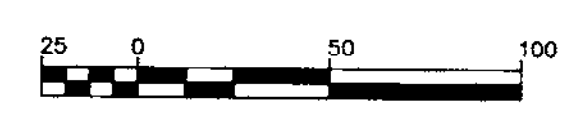
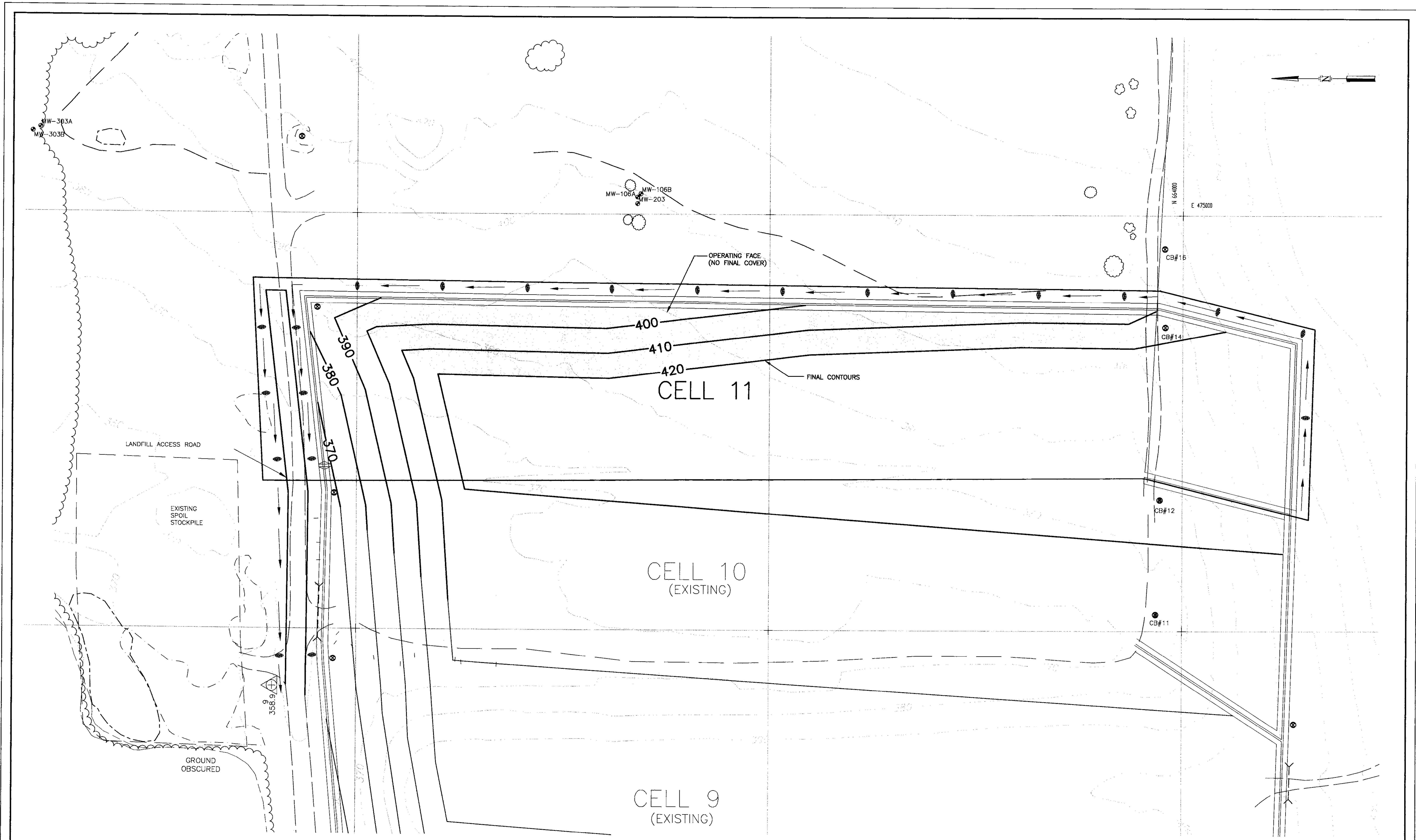
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EAST OPERATION
DOLBY III LANDFILL
CELL 11 CONSTRUCTION
SITE DEVELOPMENT PLAN

JOB NO. 94744
 ENG. REQ. NO. _____
 FILE NO. 2-092-7082

YB-25222

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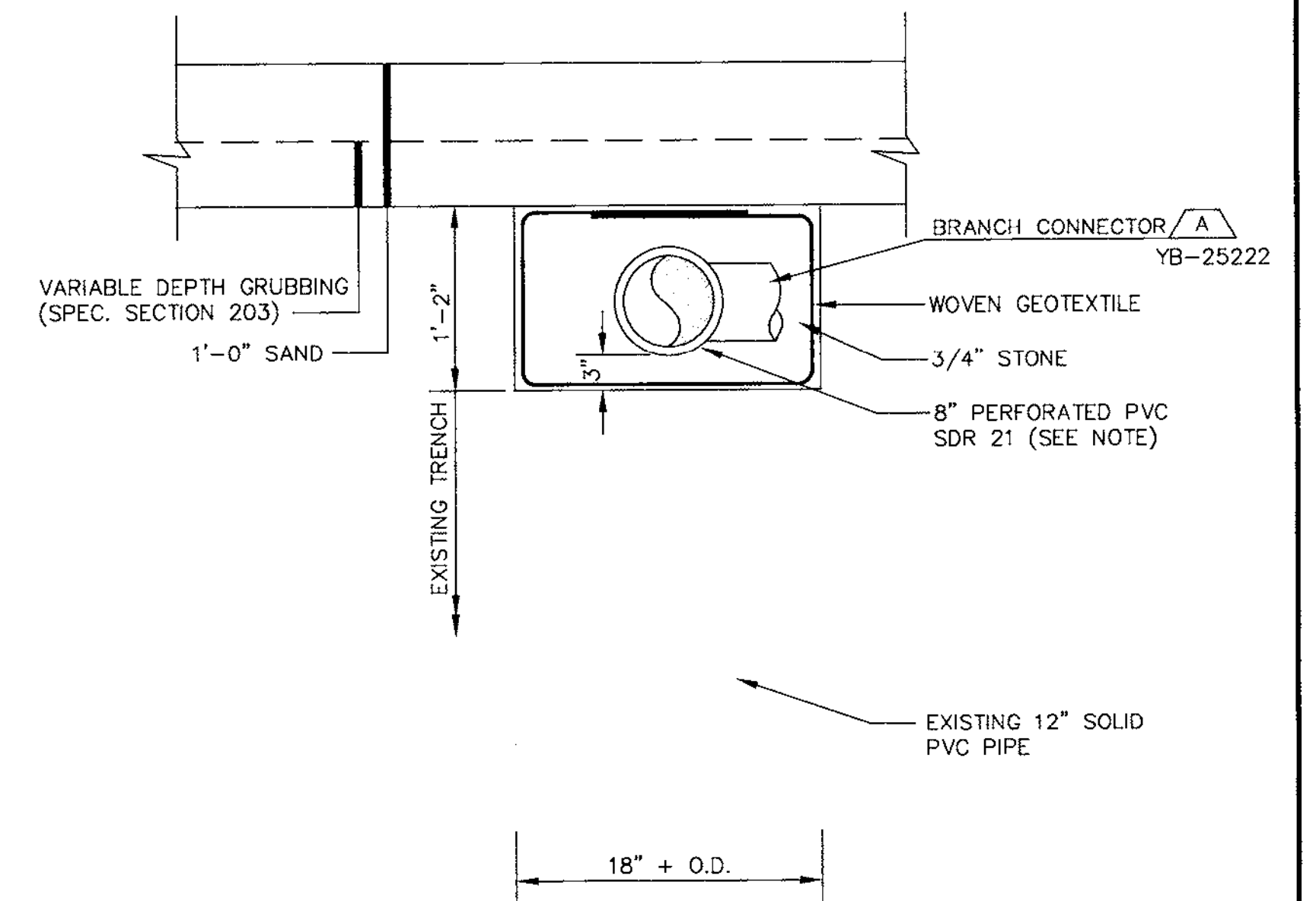
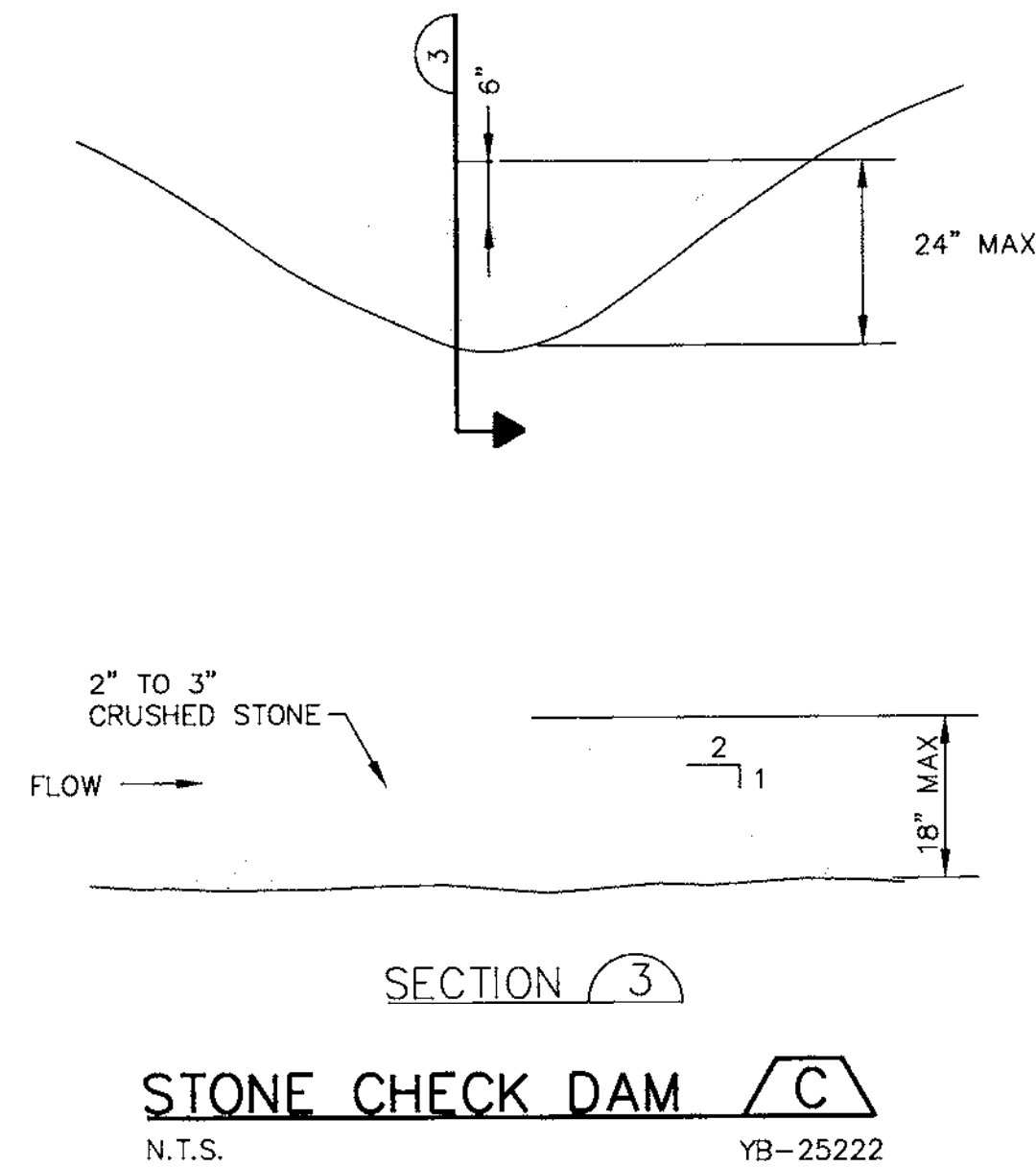
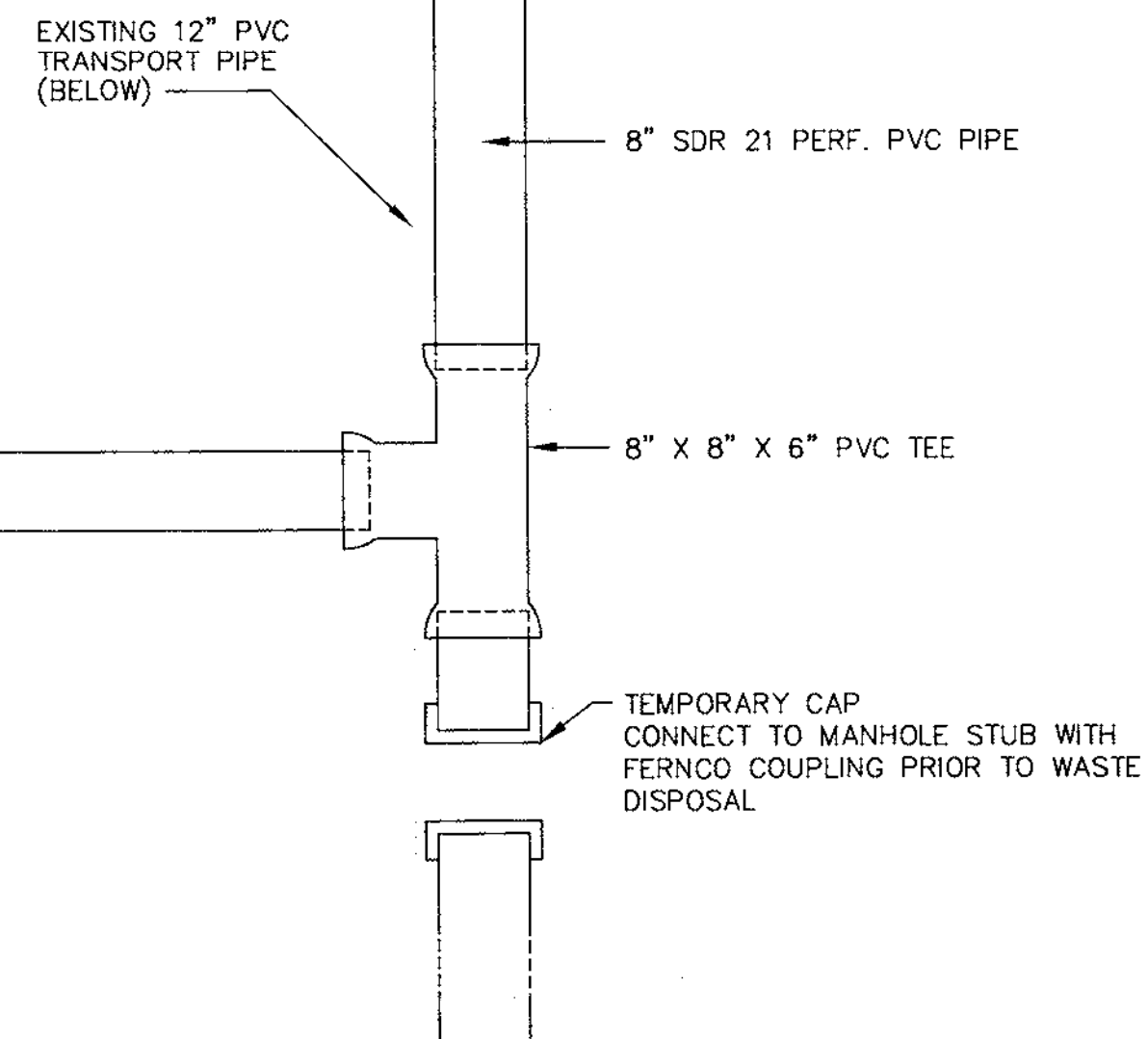
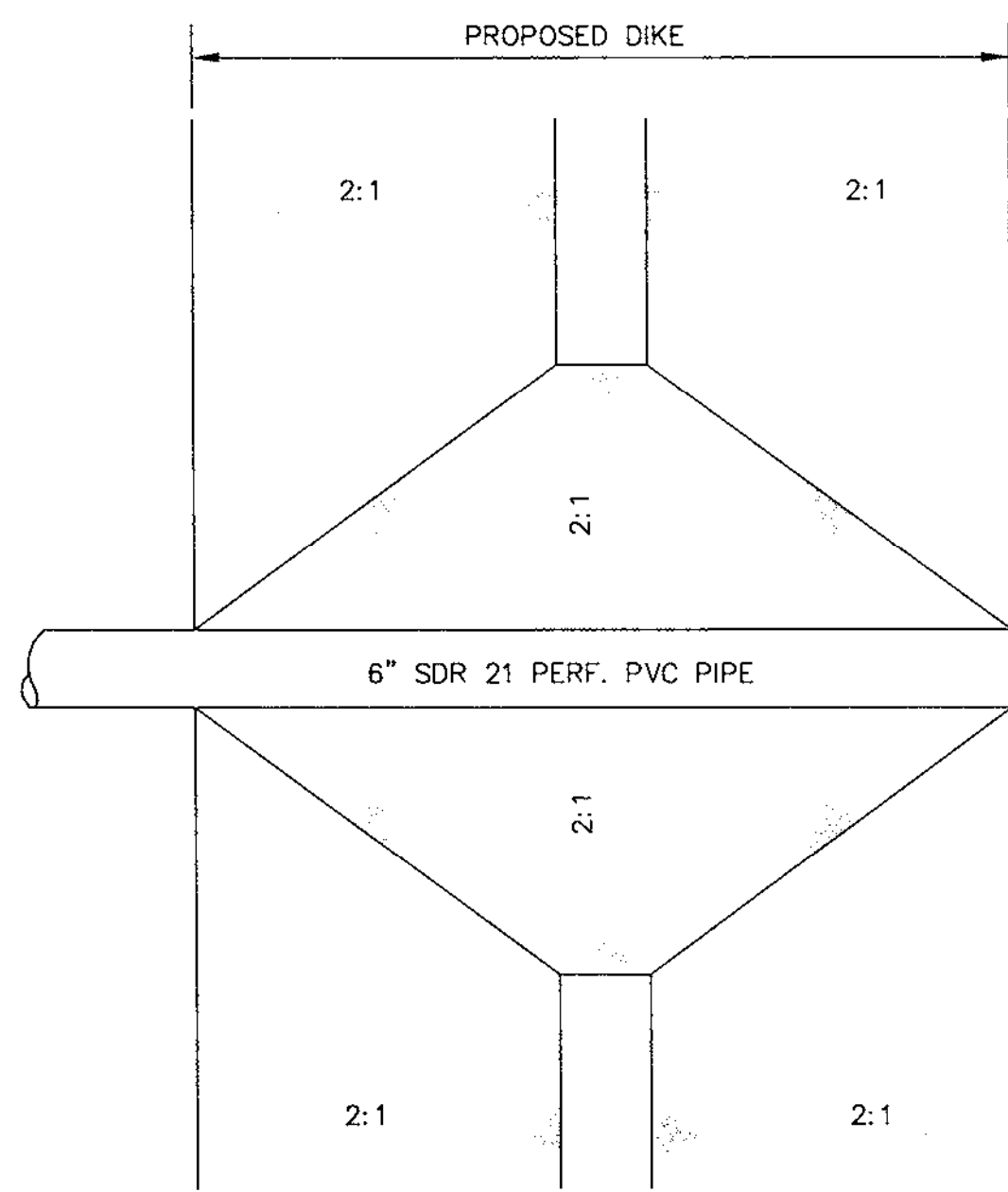
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		7/30/99	SUBMITTED TO CLIENT				

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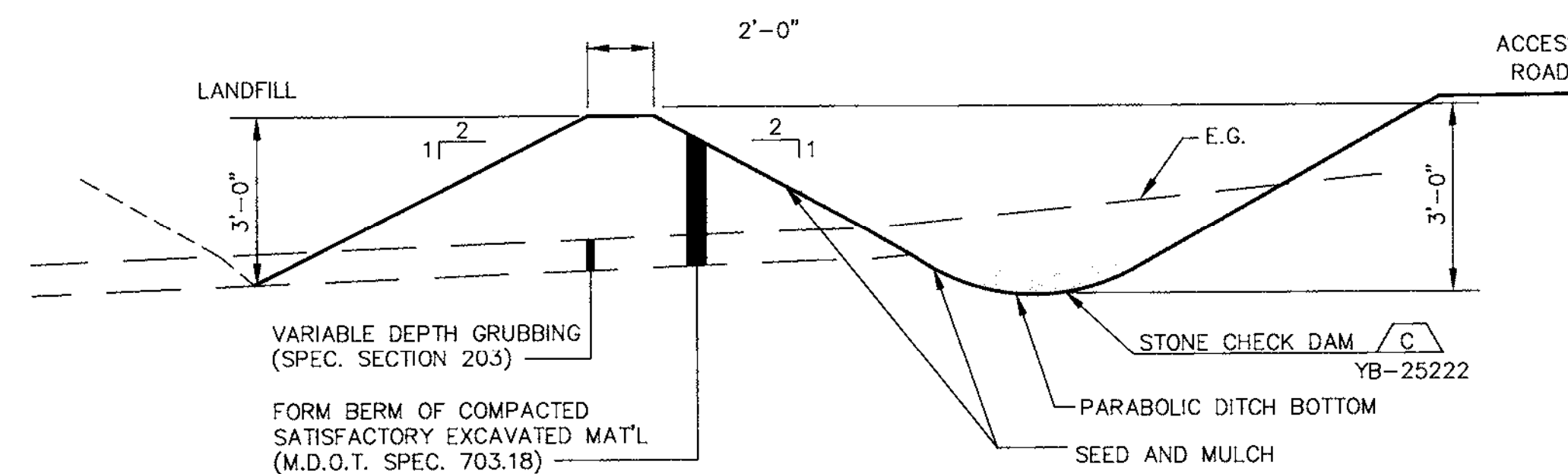
EAST OPERATION
DOLBY III LANDFILL
CELL 11 CONSTRUCTION
FINAL GRADING PLAN
 JOB NO. 94744
 ENG. REQ. NO. YB-25223
 FILE NO. 2-092-7082



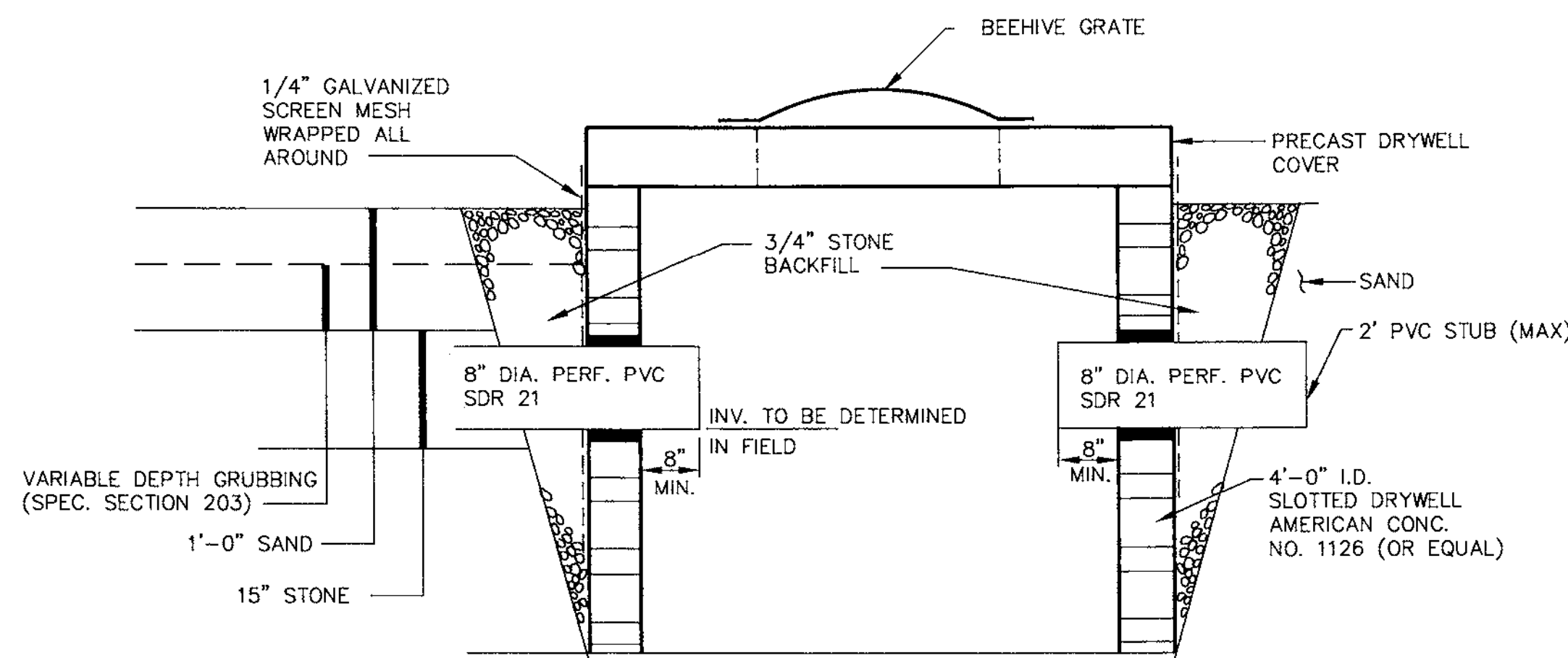
NOTE:
PIPE PERFORATIONS SHALL BE
3/8" DIA. HOLES, 6" O.C., 2 ROWS.
ROWS SHALL BE MINIMUM 45"
MAXIMUM 60" FROM INVERT OF
PIPE. HOLES SHALL FACE DOWN.

8" LEACHATE COLLECTION PIPES 4
N.T.S. YB-25222

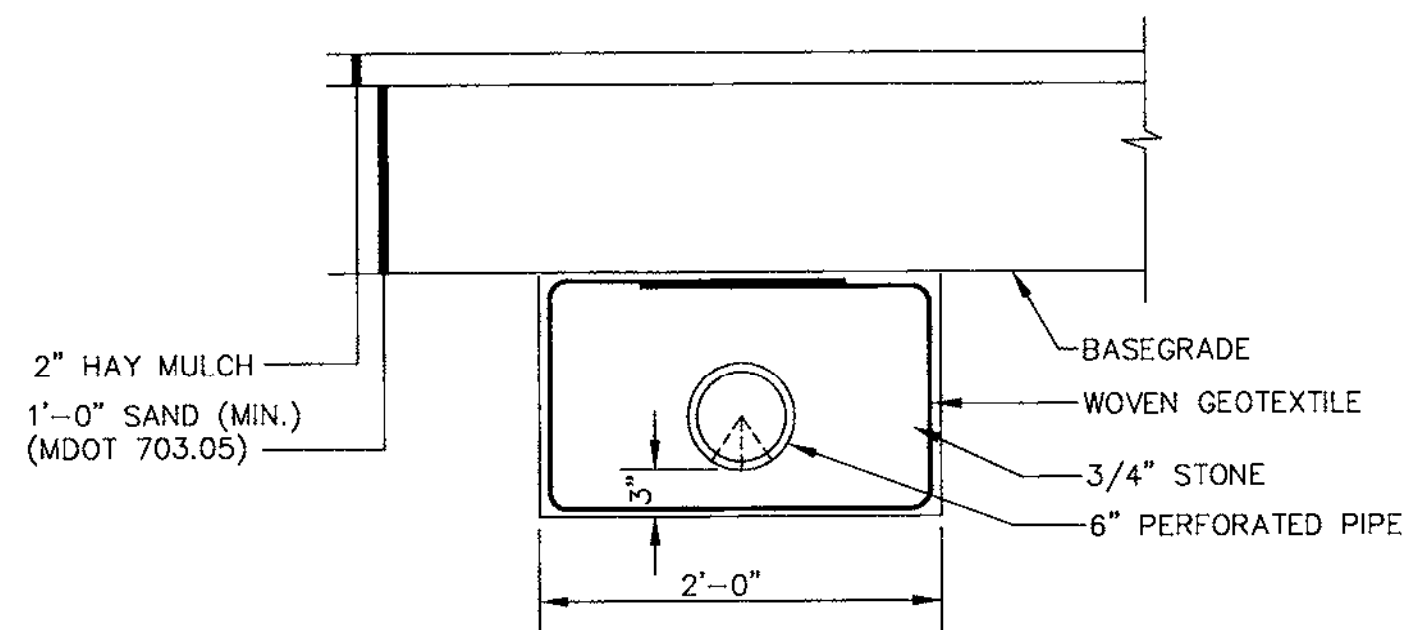
BRANCH CONNECTOR A
N.T.S. YB-25222



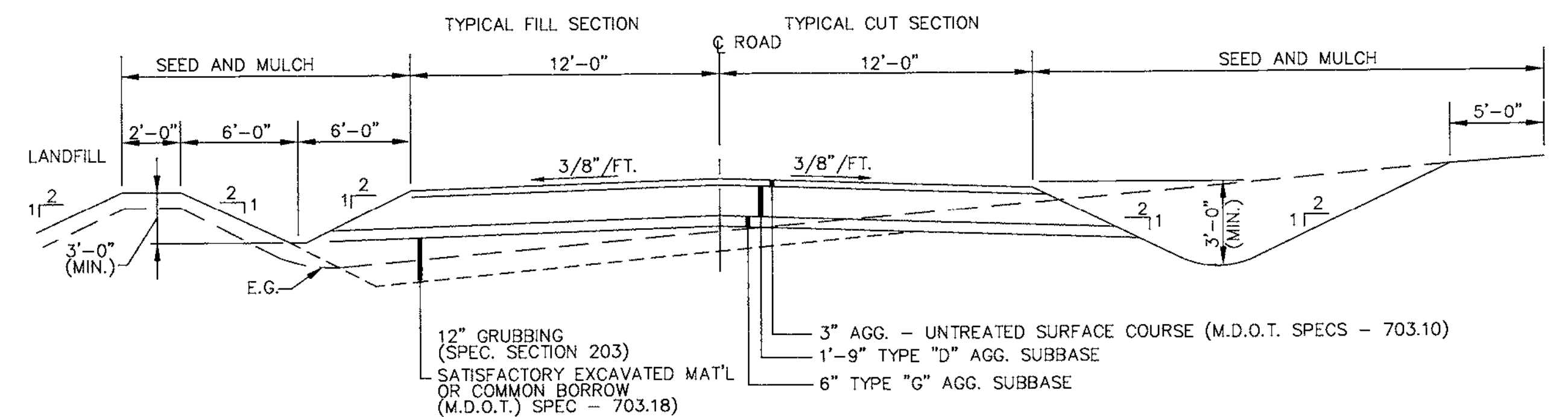
DIKE AND TYPE 2 DRAINAGE DITCH 1
N.T.S. YB-25222



CATCH BASIN # 33 B
N.T.S. YB-25222



6" LEACHATE COLLECTION PIPE 2
N.T.S. YB-25222



LANDFILL ACCESS ROAD 4
N.T.S. YB-25222



CATCH BASIN # 33 B
N.T.S. YB-25222

CODE	NO.	DATE	REVISION	BY	CRD	APPVD	JOB NO.
	12/27/99		RECORD DRAWING				99070
	7/30/98		SUBMITTED TO CLIENT				99070

SME
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EAST OPERATION
**DOLBY III LANDFILL
CELL 11 CONSTRUCTION**
SECTIONS & DETAILS
JOB NO. 94744
ENG. REQ. NO. YB-25224
FILE NO. 2-092-7082

GREAT NORTHERN PAPER, INC. MILLINOCKET, MAINE DOLBY III LANDFILL CELL 12 CONSTRUCTION CELL 10 CLOSURE

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-25539
2	SYMBOLS & ABBREVIATIONS	YB-25540
3	EXISTING CONDITIONS PLAN	YB-25541
4	CELL 12 - SITE DEVELOPMENT PLAN	YB-25542
5	OPERATIONAL GRADING PLAN	YB-25543
6	SECTIONS & DETAILS (SHEET 1 OF 2)	YB-25544
7	SECTIONS & DETAILS (SHEET 2 OF 2)	YB-25544

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

Sevee

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
1	-			5/31/00	P	SUBMITTED TO CLIENT												
2	-			6/8/00	C	ISSUED FOR CONSTRUCTION												
3	-																	
4	-																	
5	-																	
6	-																	

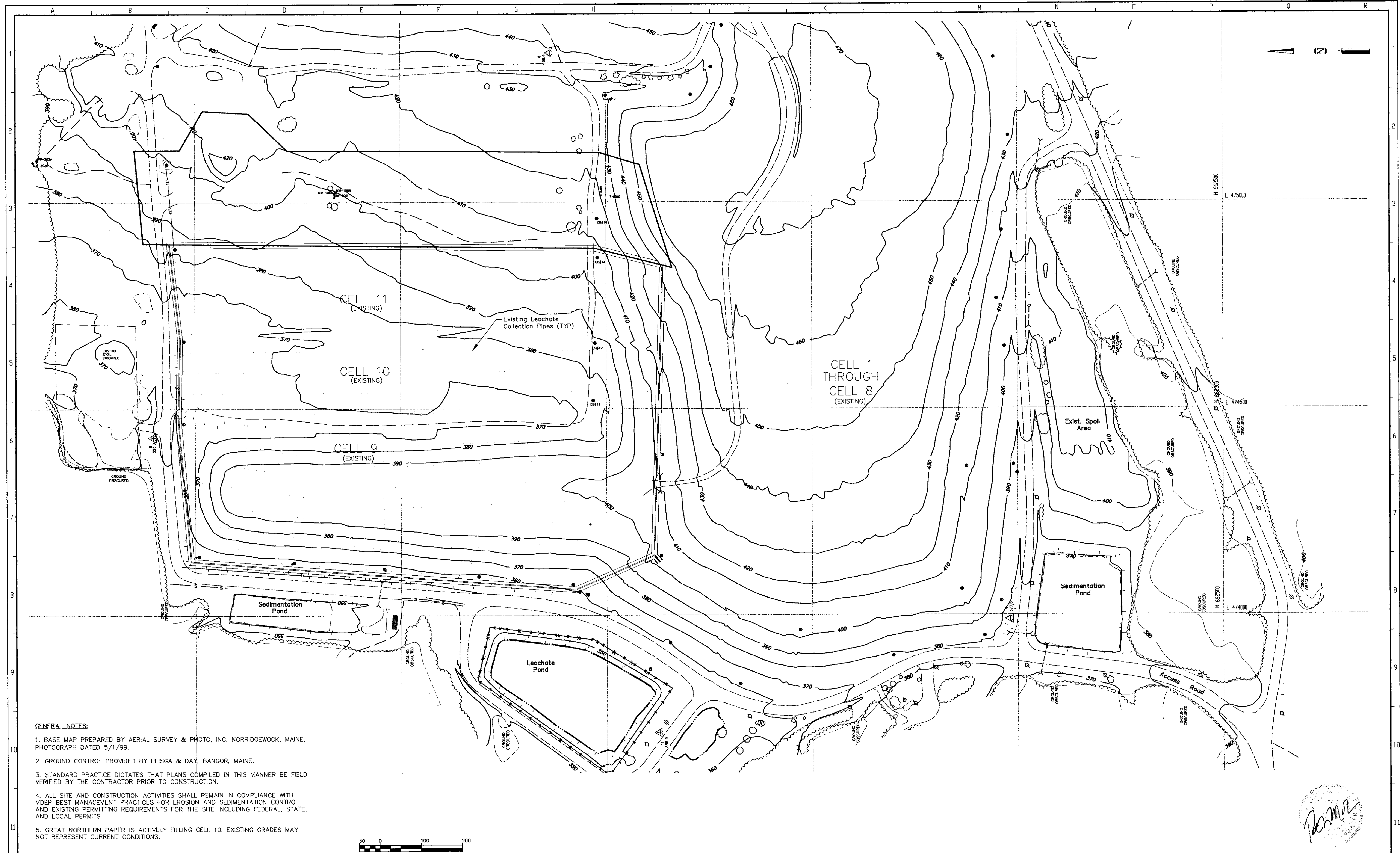
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CHKD	GHC	5/31/00
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ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE: NONE		



CAD FILE: GNPCOV12.DWG

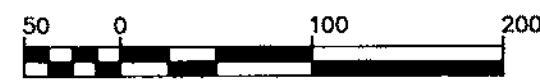
EAST OPERATION	
DOLBY III LANDFILL CELL 12 CONSTRUCTION CELL 10 CLOSURE COVER SHEET	
JOB NO. 94744	YB-25539
FILE NO. 2-092-7082	
LDC. NO.	

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GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH: MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 10. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



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REV	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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1	-	-	5/31/00	P	SUBMITTED TO CLIENT											

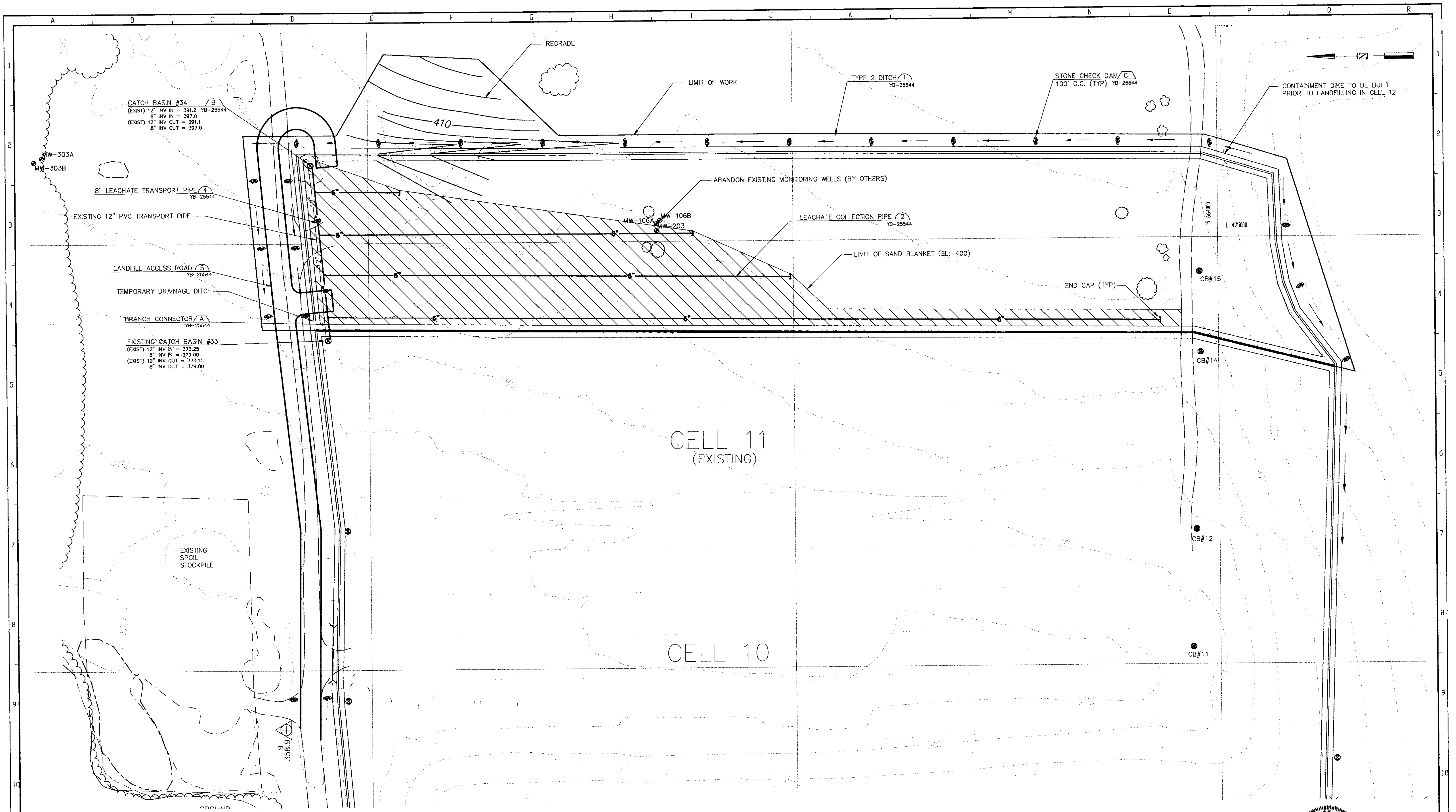
SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 00044

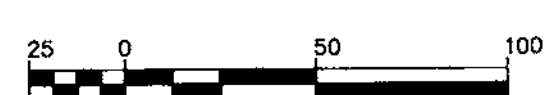
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APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	NONE	

Great Northern
 PAPER, INC.

EAST OPERATION	
DOLBY III LANDFILL	
CELL 12 CONSTRUCTION	
CELL 10 CLOSURE	
EXISTING CONDITIONS PLAN	
JOB NO.	94744
FILE NO.	2-992-7082
LOC. NO.	YB-25541



CELL 12 OPERATION NOTES (PRIOR TO FILLING)
 REMOVE 8 INCH CAP FROM CB #33.
 REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.
 BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 4.
 REMOVE EXISTING CATCH BASIN COVER ON CELL 4 (CB #16) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVER.



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	3	-	ASB	10/16/01	RECORD DRAWING											
2	-	-	C	6/8/00	ISSUED FOR CONSTRUCTION											
1	-	-	P	5/31/00	SUBMITTED TO CLIENT											

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 Cumberland Center, ME 04021

JOB NO. 00044

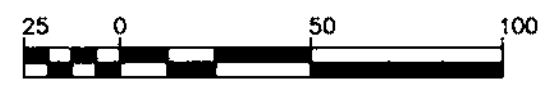
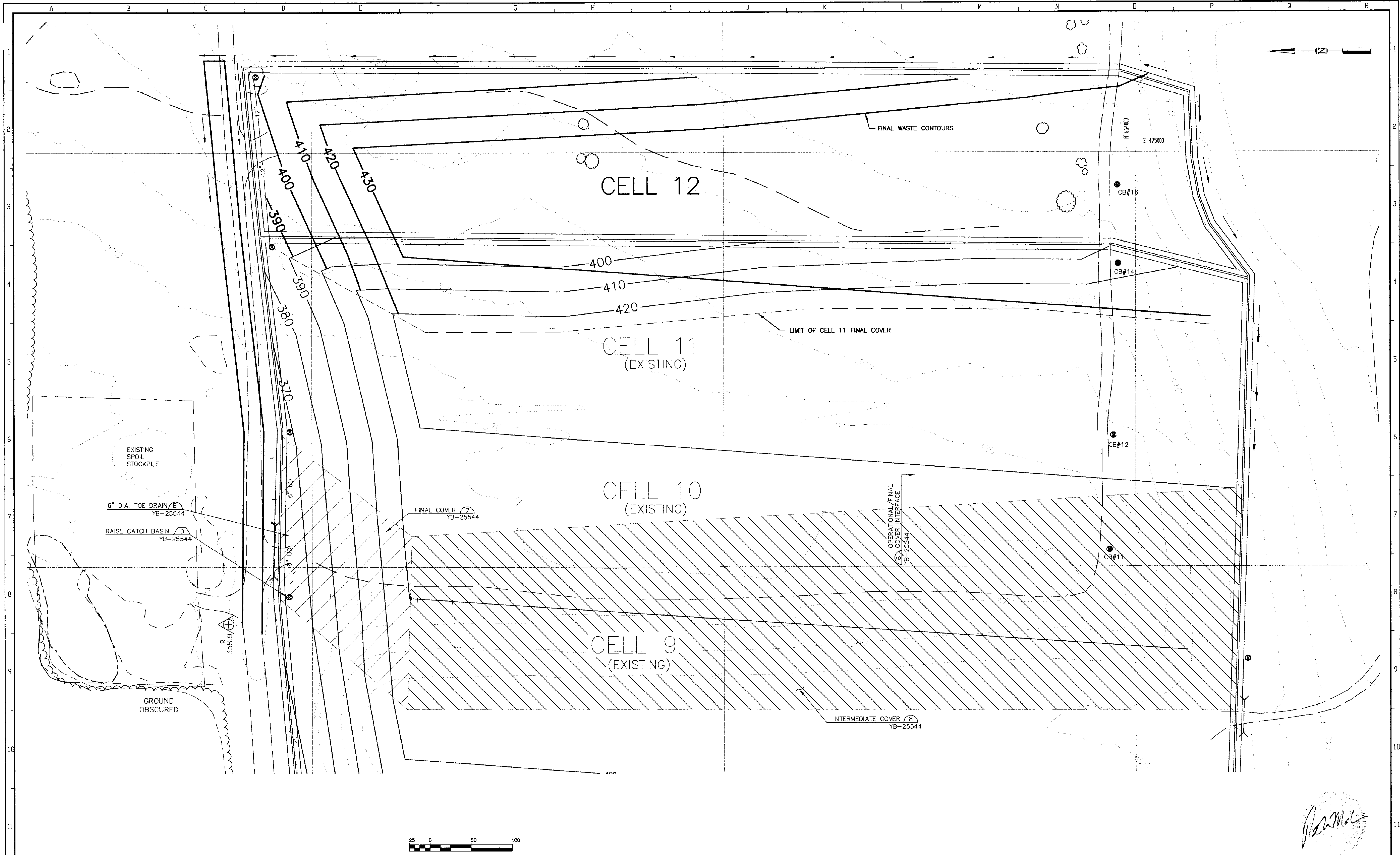
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B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	



CAD FILE: SITEDEV.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
CELL 12 - SITE DEVELOPMENT PLAN
 JOB NO. 94744
 FILE NO. P-092-7082
 LDC NO. **YB-25542**

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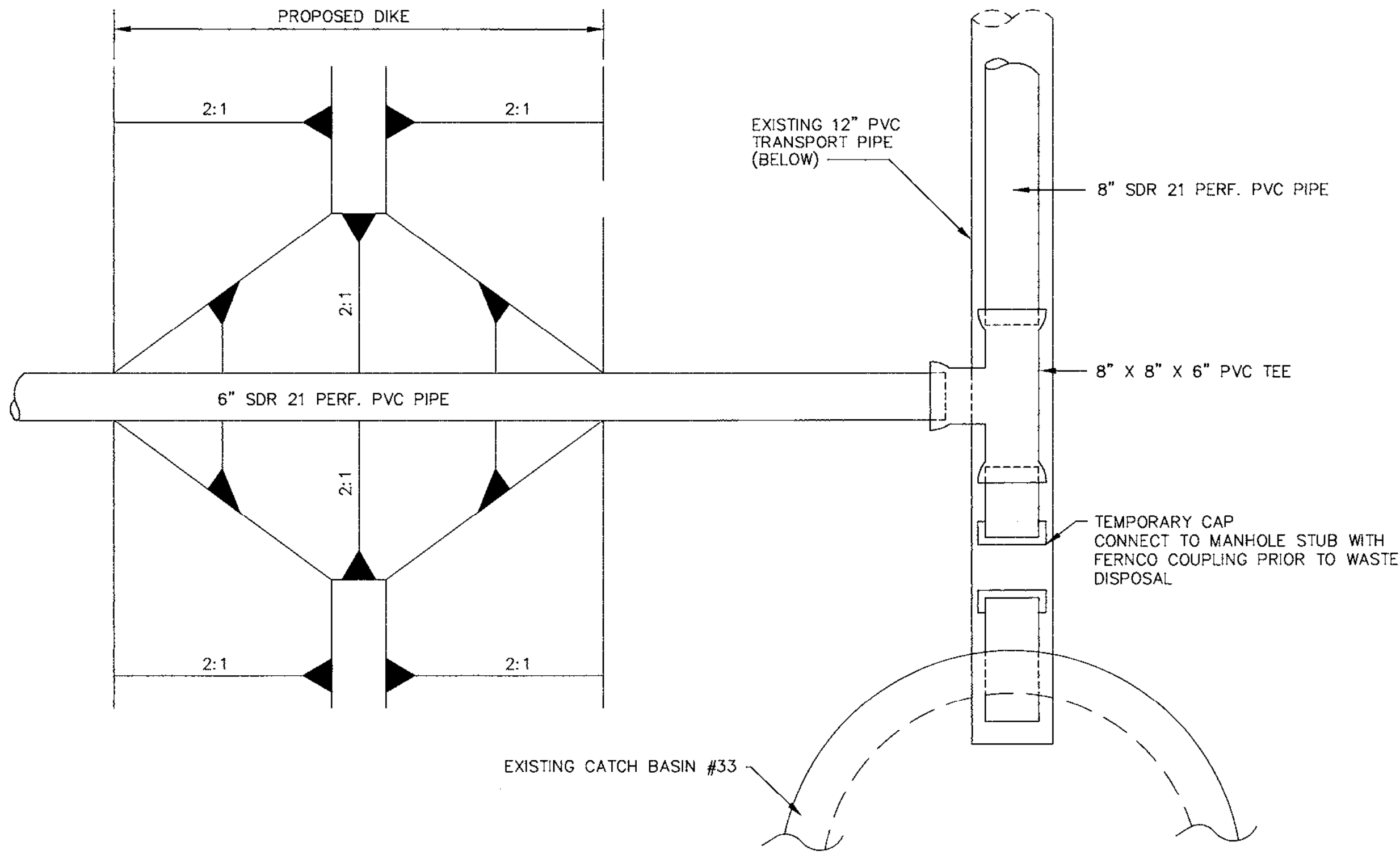
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3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	C	6/8/00	ISSUED FOR CONSTRUCTION											
1	-	-	P	5/31/00	SUBMITTED TO CLIENT											

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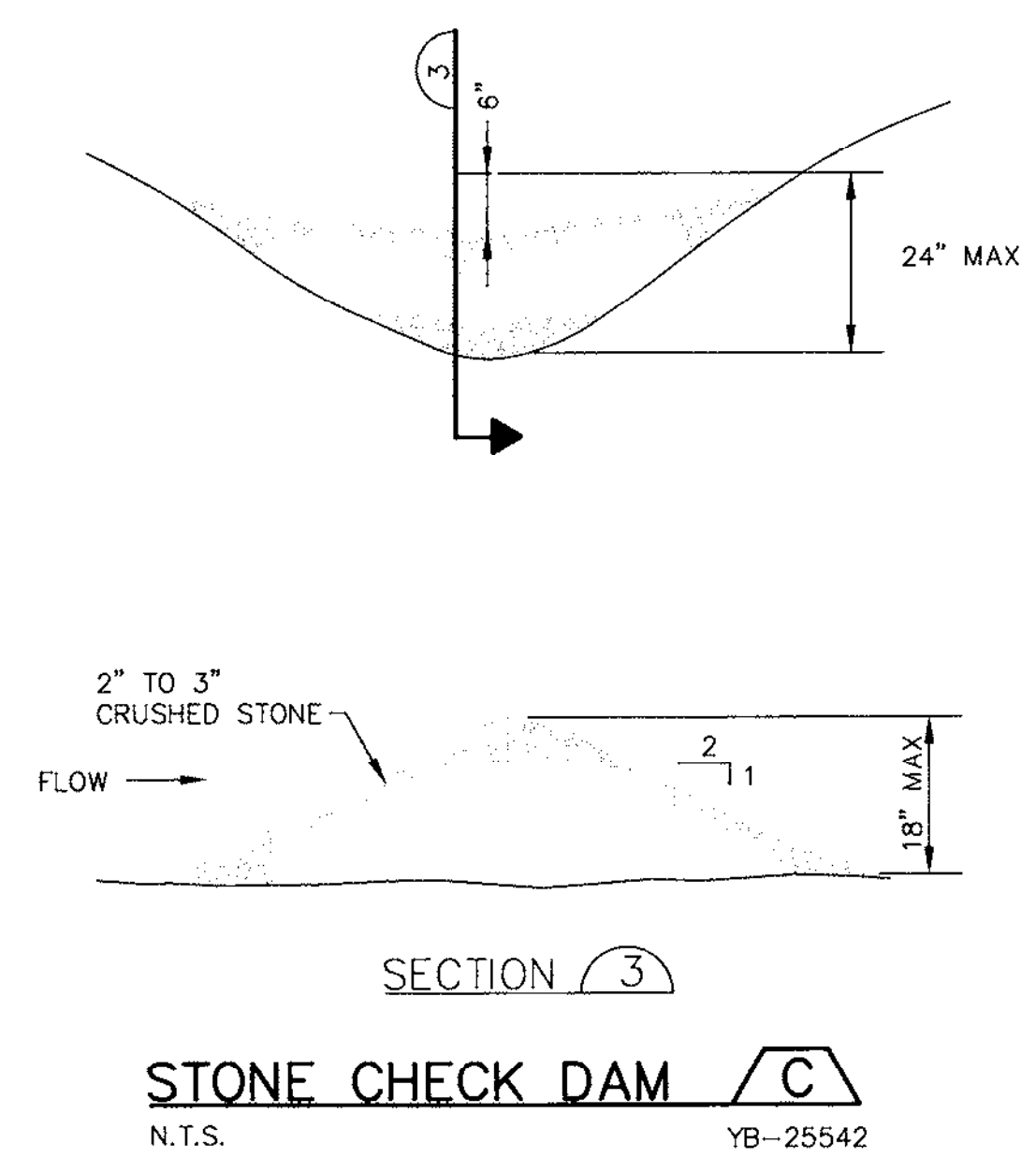
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B	- Bids	
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ASB	- As Built	
SCALE	NONE	



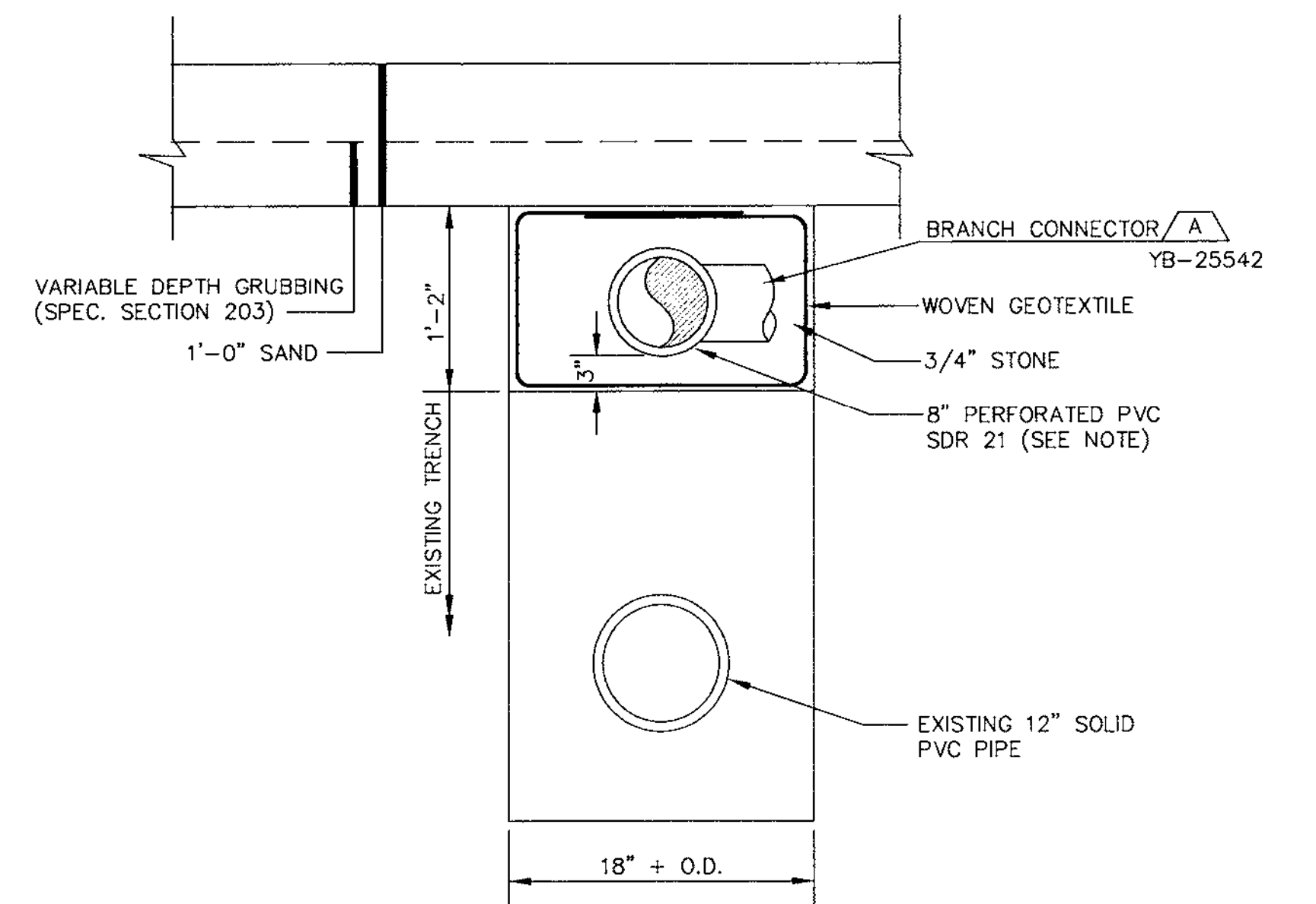
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DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
OPERATIONAL GRADING PLAN
 JOB NO. 94744
 FILE NO. 2-992-7082
 LDC. NO. **YB-25543**



BRANCH CONNECTOR A
N.T.S. YB-25542

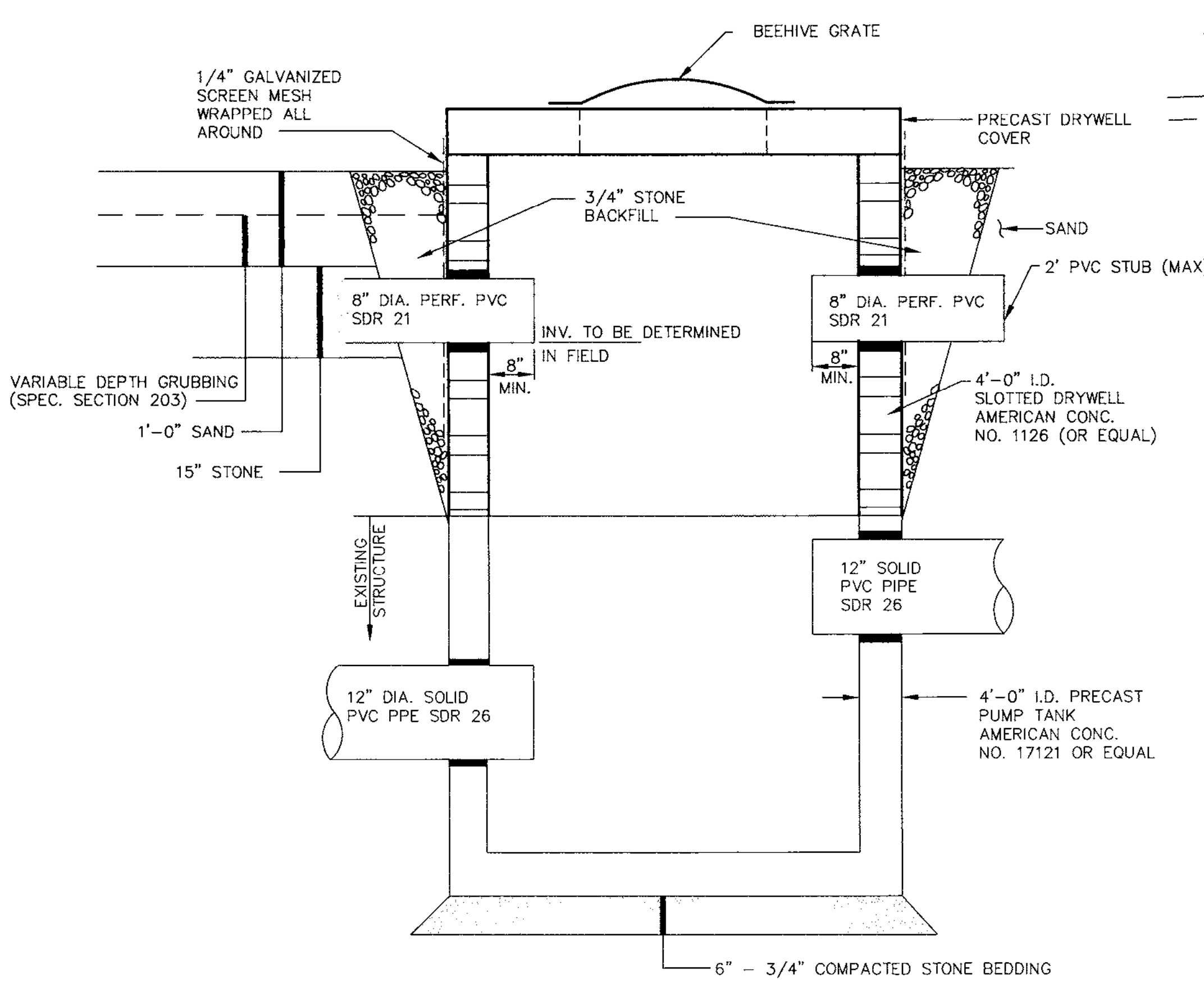


STONE CHECK DAM C
N.T.S. YB-25542

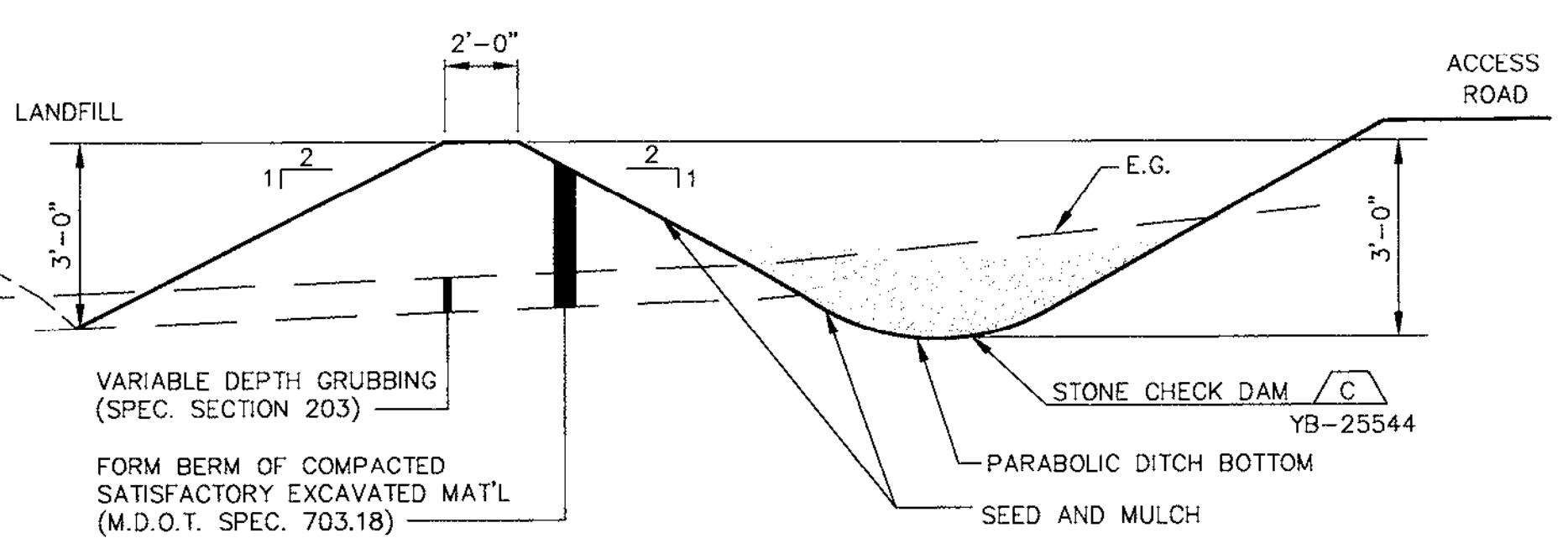


8" LEACHATE TRANSPORT PIPES 4
N.T.S. YB-25542

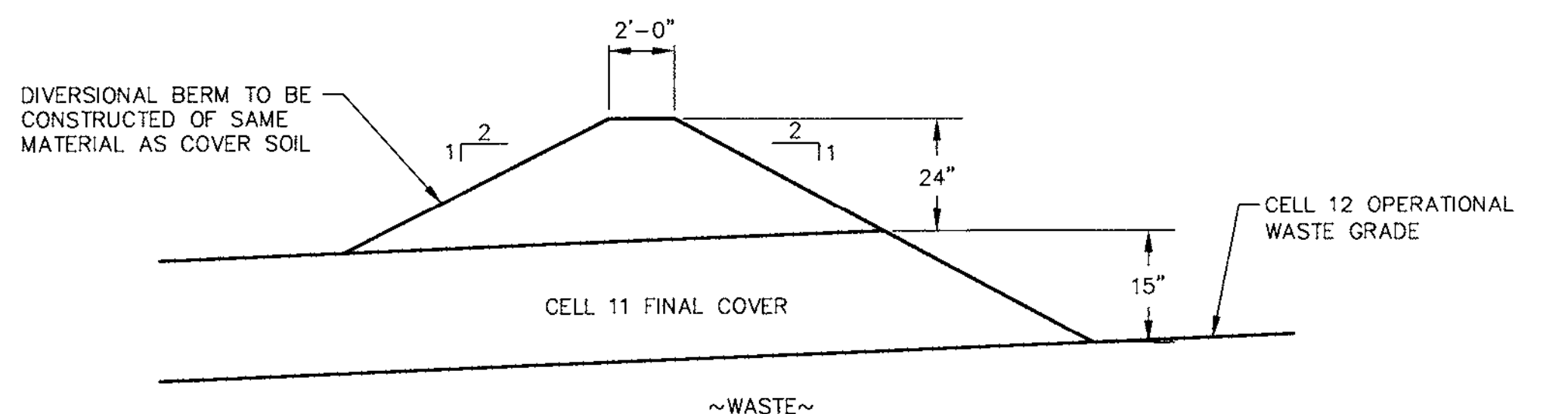
NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS, ROWS SHALL BE MINIMUM 45", MAXIMUM 60" FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.



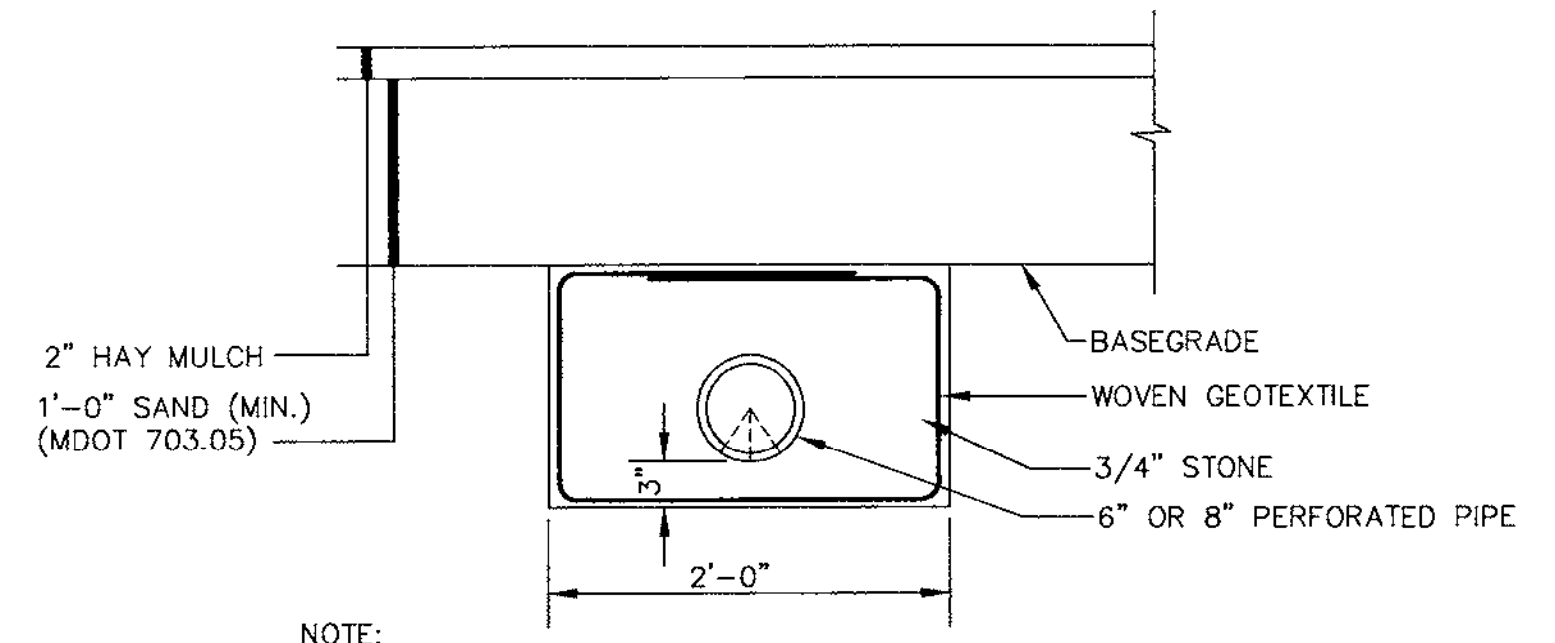
CATCH BASIN # 34 B
N.T.S. YB-25542



DIKE AND TYPE 2 DRAINAGE DITCH 1
N.T.S. YB-25542

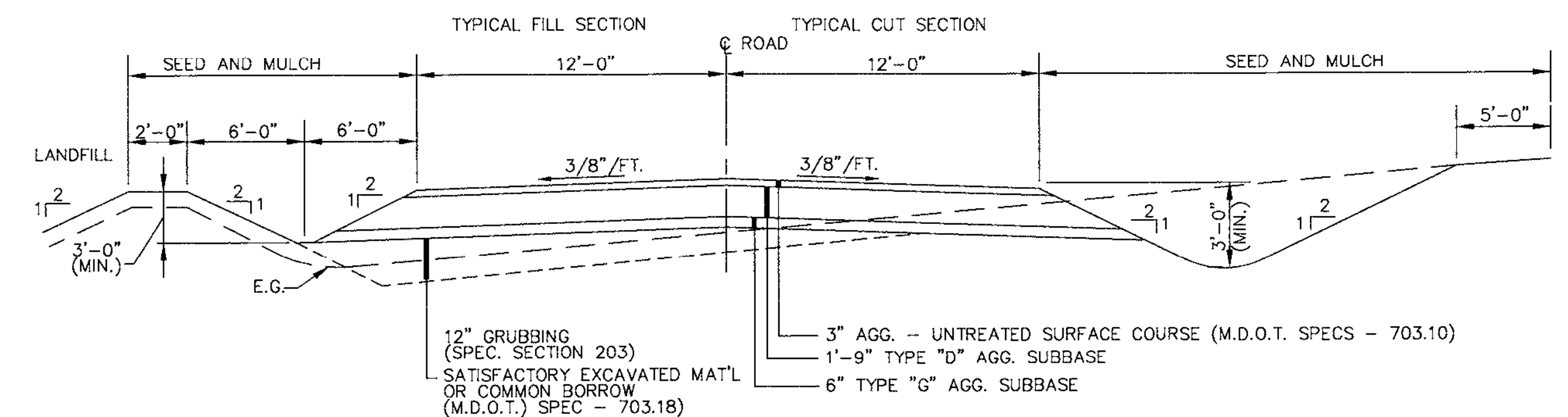


OPERATIONAL/FINAL COVER INTERFACE 6
N.T.S. YB-25543



LEACHATE COLLECTION PIPE 2
N.T.S. YB-25542

NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS, ROWS SHALL BE MINIMUM 45", MAXIMUM 60" FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.



LANDFILL ACCESS ROAD 5
N.T.S. YB-25542

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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2				6/8/00	C	ISSUED FOR CONSTRUCTION												
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4																		
5																		
6																		

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Cumberland Center, ME 04021

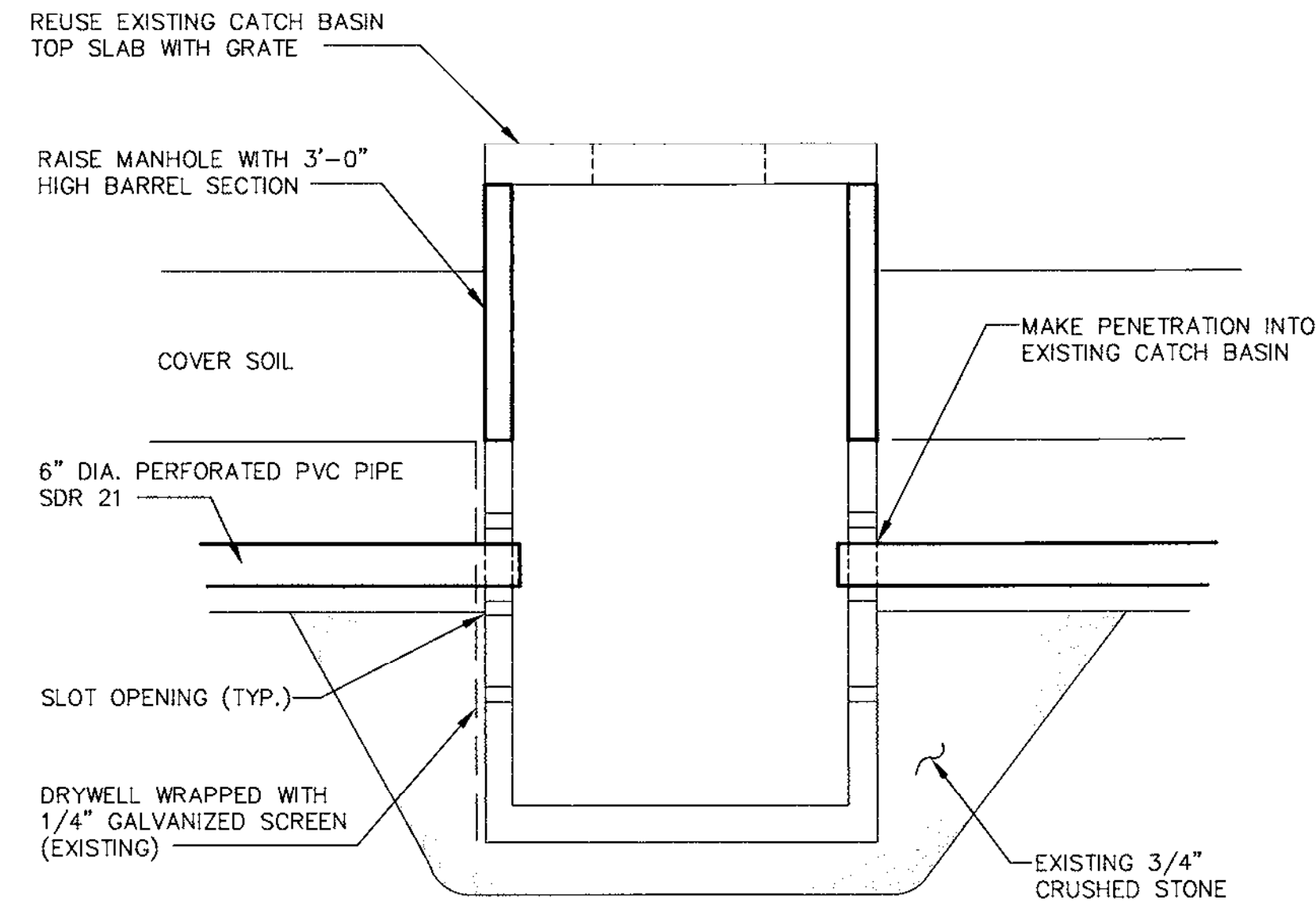
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CHKD	GHC	5/31/00
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ISSUE CODE		
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B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

Great Northern
PAPER, INC.

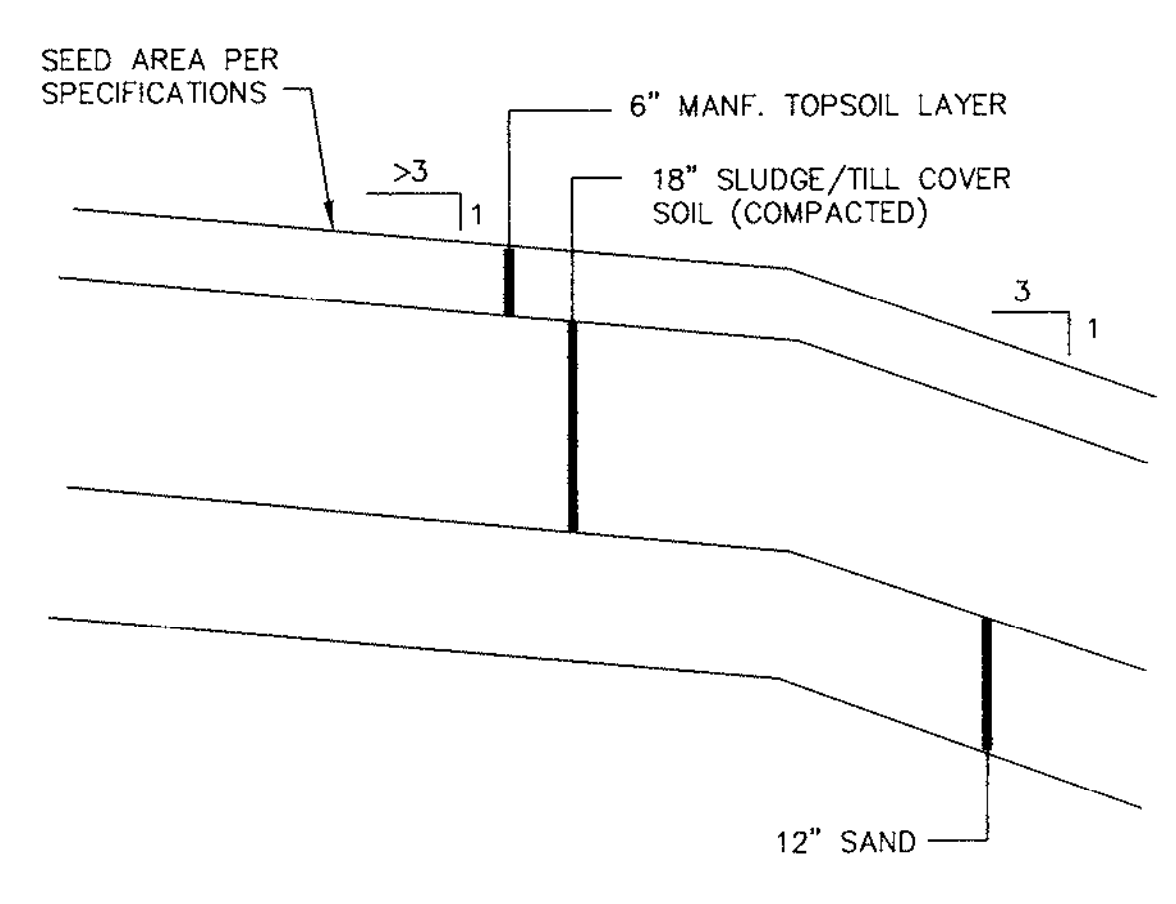
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EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SECTIONS & DETAILS
JOB NO. 94744
FILE NO. 2-992-7082
LIC. NO.
YB-25544
SHEET 1 OF 2

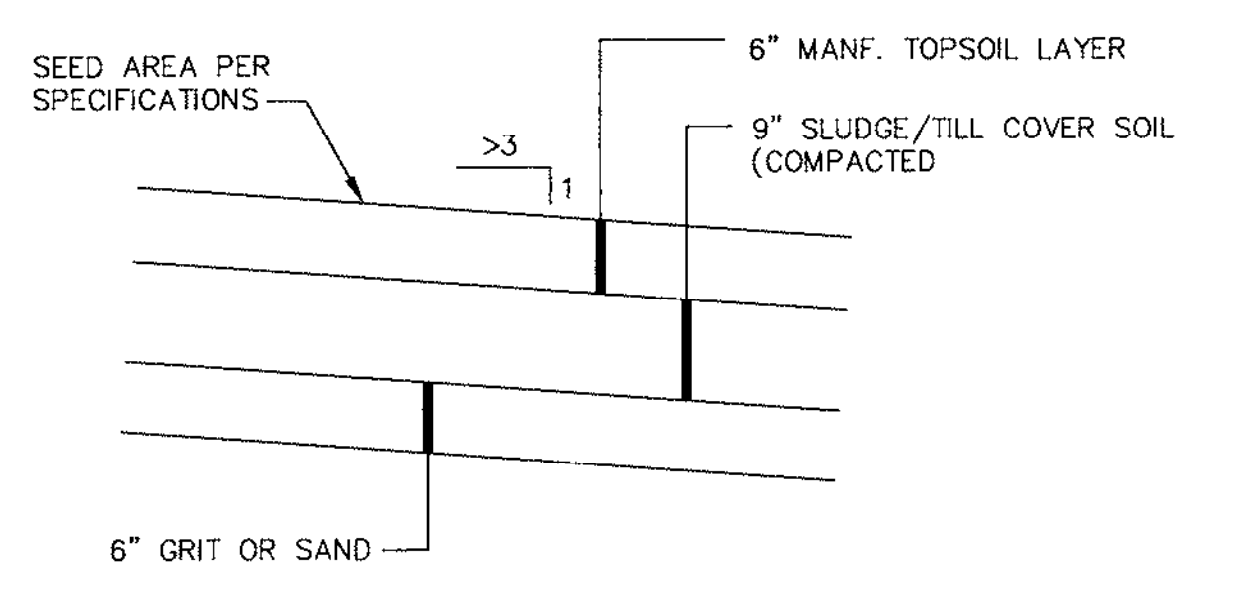
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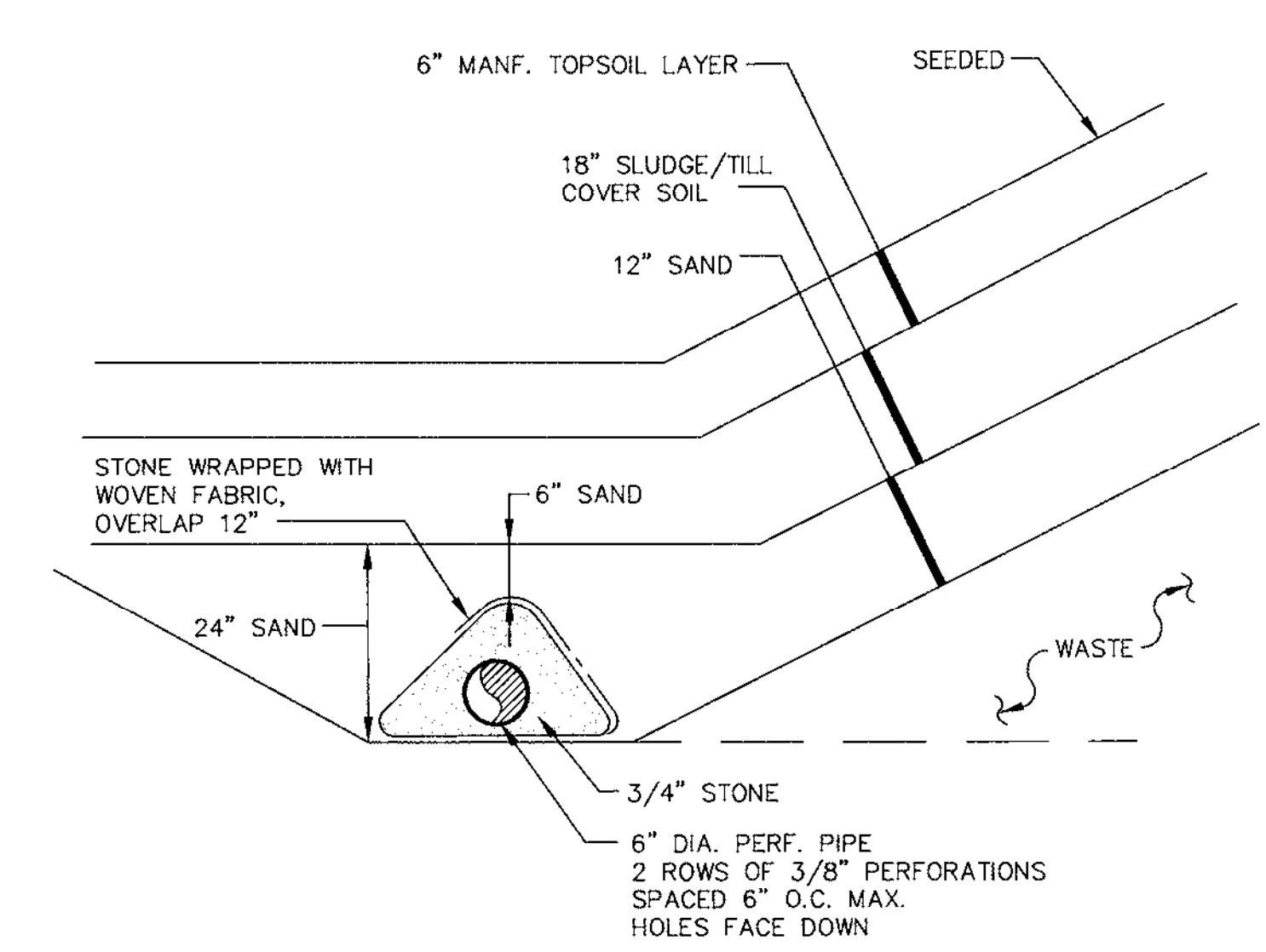
RAISE CATCH BASIN D
 N.T.S. (EXISTING) YB-25543



FINAL COVER 7
 N.T.S. YB-25543



INTERMEDIATE COVER 8
 N.T.S. YB-25543



TOE DRAIN E
 N.T.S. YB-25543

Sevee & Maher

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REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5	-																	
4	-																	
12	3																	
2	-			6/8/00	C	ISSUED FOR CONSTRUCTION												
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Cumberland Center, ME 04021

DRN	MBISK	5/31/00
CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

Great Northern
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CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL

CELL 12 CONSTRUCTION

CELL 10 CLOSURE

SECTIONS & DETAILS

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25544

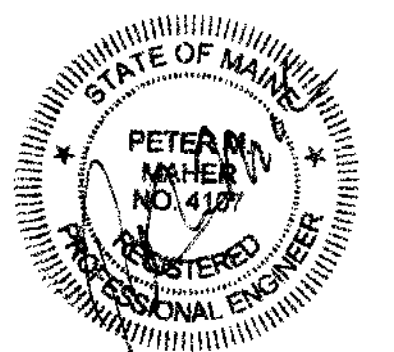
SHEET 2 OF 2

KATAHDIN PAPER COMPANY, LLC. MILLINOCKET, MAINE DOLBY III LANDFILL CELL 13 CONSTRUCTION CELL 11 CLOSURE

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-26077
2	SYMBOLS & ABBREVIATIONS	YB-26078
3	EXISTING CONDITIONS PLAN	YB-26079
4	CELL 13 - SITE DEVELOPMENT PLAN	YB-26080
5	OPERATIONAL GRADING PLAN	YB-26081
6	SECTIONS & DETAILS (SHEET 1 OF 3)	YB-26082
7	SECTIONS & DETAILS (SHEET 2 OF 3)	YB-26083
8	SECTIONS & DETAILS (SHEET 3 OF 3)	YB-26084

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine



REV	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	JOB NO. 02021	<table border="1" style="font-size: 8px;"> <tr><td>DRN</td><td>KLC</td><td>3/6/02</td></tr> <tr><td>CHKD</td><td>GHC</td><td>3/8/02</td></tr> <tr><td>APPVD</td><td>-</td><td>-</td></tr> <tr><td colspan="3">ISSUE CODE</td></tr> <tr><td colspan="3">P - Preliminary</td></tr> <tr><td colspan="3">B - Bids</td></tr> <tr><td colspan="3">C - Construction</td></tr> <tr><td colspan="3">ASB - As Built</td></tr> <tr><td colspan="3">SCALE NONE</td></tr> </table>	DRN	KLC	3/6/02	CHKD	GHC	3/8/02	APPVD	-	-	ISSUE CODE			P - Preliminary			B - Bids			C - Construction			ASB - As Built			SCALE NONE			KATAHDIN PAPER COMPANY, LLC. MILLINOCKET, MAINE	EAST OPERATION DOLBY III LANDFILL CELL 13 CONSTRUCTION CELL 11 CLOSURE COVER SHEET JOB NO. 94768 FILE NO. 2-092-7082 LOC. NO. _____ YB-26077
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CHKD	GHC	3/8/02																																															
APPVD	-	-																																															
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SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		STONE WALL		MANHOLE		CATCH BASIN		WATER VALVE
	CONTOUR LINES		EDGE OF WATER		WATER ELEVATION (GROUND OR SURFACE)		HYDRANT		UTILITY POLE		CLEAN OUT STRUCTURE
	SPOT ELEVATION (GRADE)		FENCE LINE (WOOD)		FENCE LINE (WIRE)		UNDERGROUND GAS MAIN		UNDERGROUND TELEPHONE LINE		UNDERGROUND ELECTRICAL LINE
	EXISTING GROUND		RETAINING WALL		GUARD RAIL		OVERHEAD ELECTRICAL LINE		SANITARY SEWER (SIZE & TYPE)		FORCE MAIN (SIZE & TYPE)
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		SLOPE RATIO (HORIZONTAL TO VERTICAL)		SLOPES (WITH SLOPE RATIO)		WATER MAIN (SIZE & TYPE)		STORM DRAIN (SIZE & TYPE)		UNDERDRAIN (SIZE & TYPE)
	PROPERTY LINE OR R.O.W.		BUILDING AND STRUCTURES		CLEARING LIMIT LINE		BITUMINOUS PAVEMENT		CONCRETE		CULVERT
	PROPERTY LINE W/ BEARING AND DISTANCE		SLOPE RATIO (HORIZONTAL TO VERTICAL)		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		RAILROAD		SILTATION FENCE		PERIMETER DRAIN (SIZE & TYPE)
	CONSTRUCTION BASELINE		SLOPES (WITH SLOPE RATIO)		EDGE OF TRAVELED WAY		LEACHATE TRANSPORT (SIZE & TYPE)		LEACHATE COLLECTION (SIZE & TYPE)		LEAK DETECTION, SIZE & TYPE
	BOUNDARY LINE (State, County, Municipality)		CUT OR FILL LINE		CLEARING LIMIT LINE		TERRACE DRAINAGE SWALE		GRAVITY SEWER		SOLID WALL PIPE
	SURVEY MONUMENT		BITUMINOUS PAVEMENT		CONCRETE		CULVERT		CULVERT		CULVERT
	SURVEY IRON		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT
	DRILL HOLE, PK, OR STAKE		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT
	WOODS OR BRUSH LINE		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT
	INDIVIDUAL TREE (Deciduous)		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT
	INDIVIDUAL TREE (Coniferous)		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT
	TREE, TO BE REMOVED		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT
	MAPPED WETLAND		CONCRETE		CULVERT		CULVERT		CULVERT		CULVERT

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW - MDT SPECIFICATION 703.18

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

SAND BLANKET - MDT SPECIFICATION 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PVC PIPE - SDR 35

6" PVC PIPE - SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 13 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

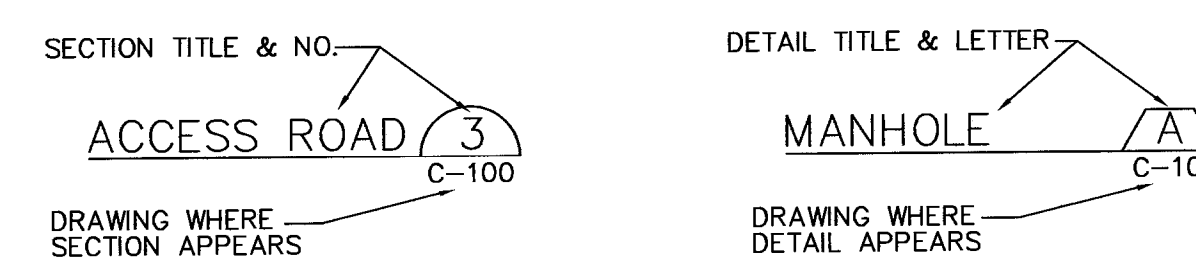
MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDT 618.05 AND MDT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

A.C.C.M.P.	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	PD	PERIMETER DRAIN
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT	P.I.	POINT OF INTERSECTION
AGG	AGGREGATE	DEPT	DEPARTMENT	I.D.	INSIDE DIAMETER	P.T.	POINT OF TANGENT
ALUM	ALUMINUM	DI	DUCTILE IRON	IN OR "	INCHES	PERF	PERFORATED
APPD	APPROVED	DIA OR #	DIAMETER	INV	INVERT	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	DIM	DIMENSION	INV EL	INVERT ELEVATION	PVC	POLYVINYL CHLORIDE
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	LB	POUND	PVMT	PAVEMENT
ASB	ASBESTOS	DN	DOWN	LC	LEACHATE COLLECTION	QTY	QUANTITY
ASPH	ASPHALT	DR	DRAIN	LD	LEAK DETECTION	RAD	RADIUS
AUTO	AUTOMATIC	DWG	DRAWING	LD LN FT.	LINEAR FEET	REQD	REQUIRED
AUX	AUXILIARY	EA	EACH	LOC	LOCATION	RT	RIGHT
AVE	AVENUE	EG	EXISTING GROUND OR GRADE	LOC	LOCATION	RTE	ROUTE
AZ	AZIMUTH	ELEC	ELECTRIC	LT	LEACHATE TRANSPORT	S	SLOPE
		EL	ELEVATION	M.H.	MANHOLE	SCH	SCHEDULE
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	ELB	ELBOW	M.J.	MECHANICAL JOINT	SF	SQUARE FEET
B.M.	BENCH MARK	EQUIP	EQUIPMENT	MATL	MATERIAL	SHT	SHEET
BIT	BITUMINOUS	EST	ESTIMATED	MAX	MAXIMUM	STA	STATION
BLDG	BUILDING	EXC	EXCAVATE	MFR	MANUFACTURE	SY	SQUARE YARD
BOT	BOTTOM	EXIST	EXISTING	MIN	MINIMUM	TAN	TANGENT
BRG	BEARING			MISC	MISCELLANEOUS	TDH	TOTAL DYNAMIC HEAD
		F.G.	FINISH GRADE	MON	MONUMENT	TEMP	TEMPORARY
C.B.	CATCH BASIN	FBRGL	FIBERGLASS	N.I.T.C.	NOT IN THIS CONTRACT	TYP	TYPICAL
CEN	CENTER	FON	FOUNDATION	N.T.S.	NOT TO SCALE	V	VOLTS
CEM. LIN.	CEMENT LINED	FLEX	FLEXIBLE	NO. OR #	NUMBER	W/O	WITHOUT
C.M.P.	CORRUGATED METAL PIPE	FLG	FLANGE	O.C.	ON CENTER	YD	YARD
C.O.	CLEAN OUT	FLR	FLOOR	O.D.	OUTSIDE DIAMETER		
CF	CUBIC FEET	FPS	FEET PER SECOND				
CFS	CUBIC FEET PER SECOND	FT	FEET				
C	CAST IRON	FTG	FOOTING				
CL	CLASS	GA	GAUGE				
CONC	CONCRETE	GAL	GALLON				
CONST	CONSTRUCTION	GALV	GALVANIZED				
CONTR	CONTRACTOR	GPD	GALLONS PER DAY				
CTR	CENTER	GPM	GALLONS PER MINUTE				
CY	CUBIC YARD						

VIEW MARKERS & IDENTIFICATION



REV.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	5/03	ASB	RECORD DRAWING													
1	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION													
				P	SUBMITTED TO CLIENT													

Sveve & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD	-	-
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

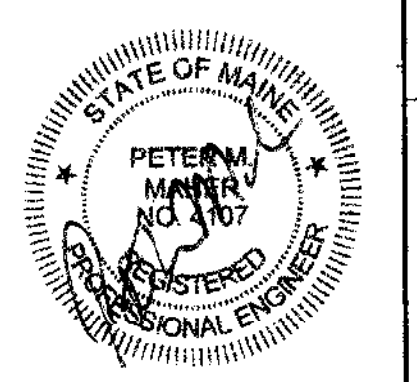
KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: SYMSHT.DWG

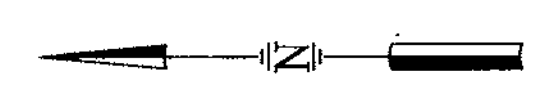
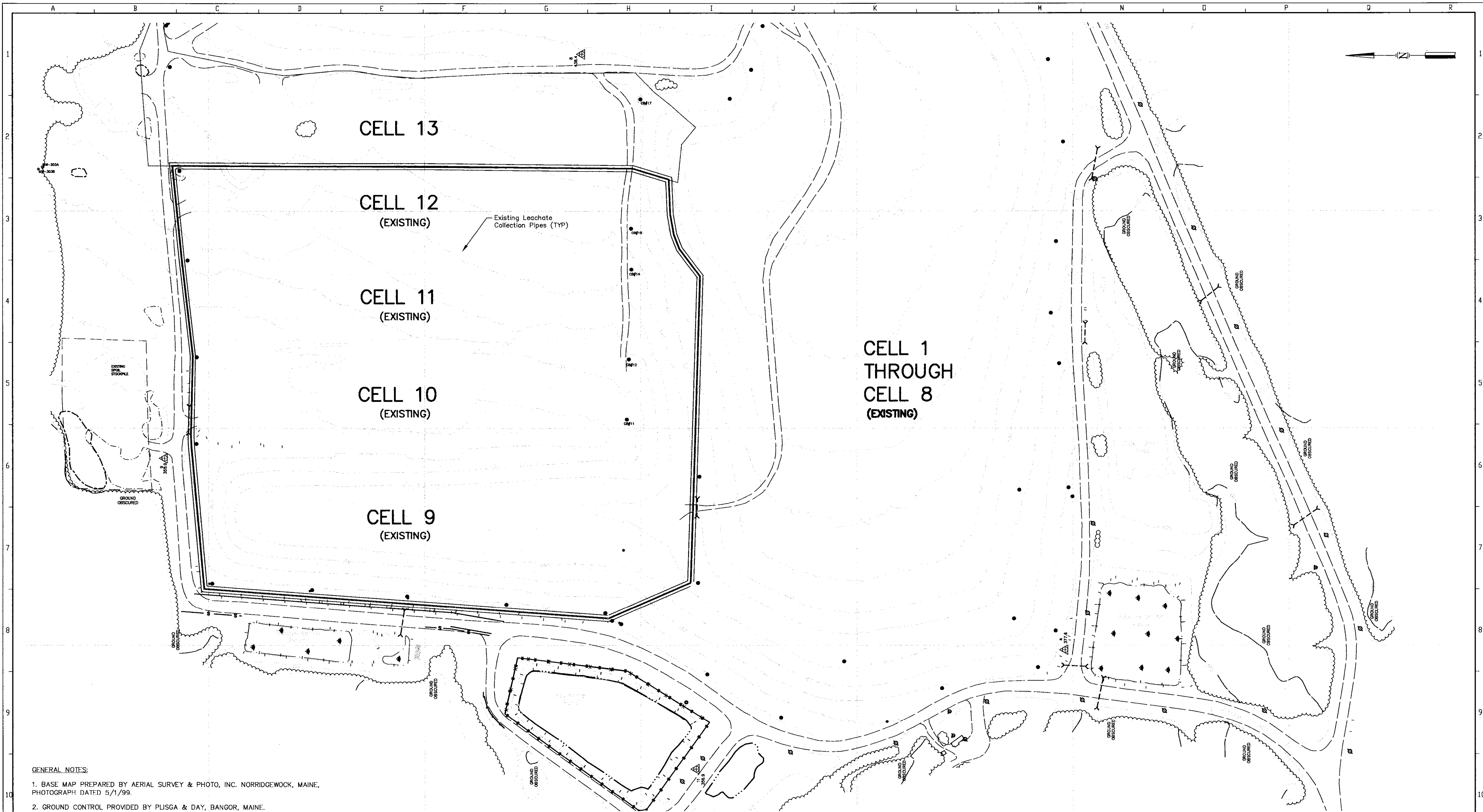
EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SYMBOLS & ABBREVIATIONS

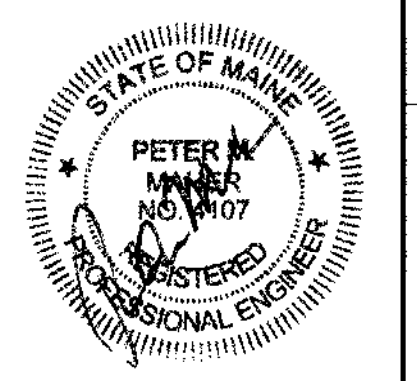
JOB NO. 24768
FILE NO. 2-092-7082
LDC. NO. **YB-26078**



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- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
 5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 12. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	3	-	-	12/02	ASB	RECORD DRAWING											
2	-	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC										
1	-	-	-	-	P	SUBMITTED TO CLIENT	GHC										

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NINE	

KATAHDIN PAPER COMPANY, LLC.
 MILLINOCKET, MAINE

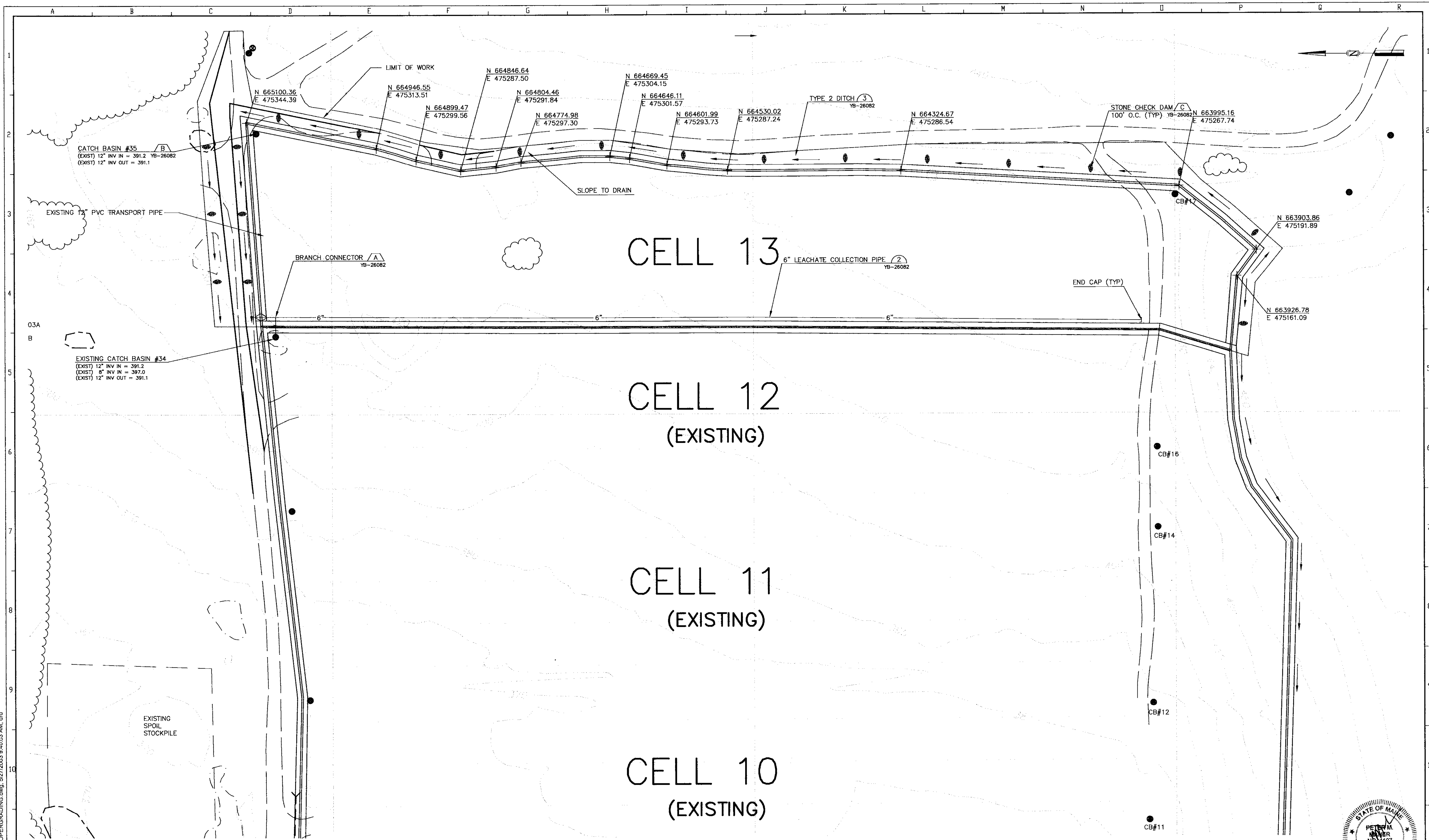
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EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
EXISTING CONDITIONS PLAN

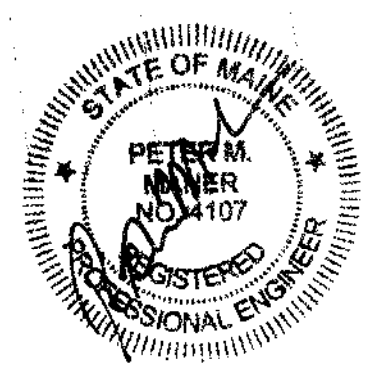
JOB NO. 94768
 FILE NO. 2-092-7082
 LDC NO. _____

YB-26079

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CELL 13 OPERATION NOTES (PRIOR TO FILLING)
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 5.



NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	5/03	ASB	ASB	RECORD DRAWING												
2	-	-	4/29/02	C	C	ISSUED FOR CONSTRUCTION												
1	-	-	-	P	P	SUBMITTED TO CLIENT												

SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 02021

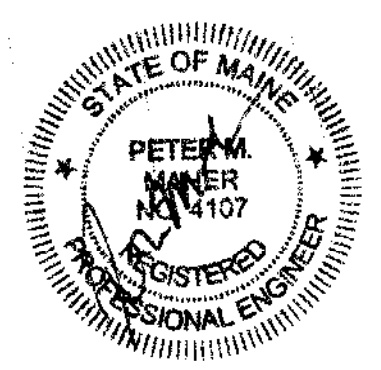
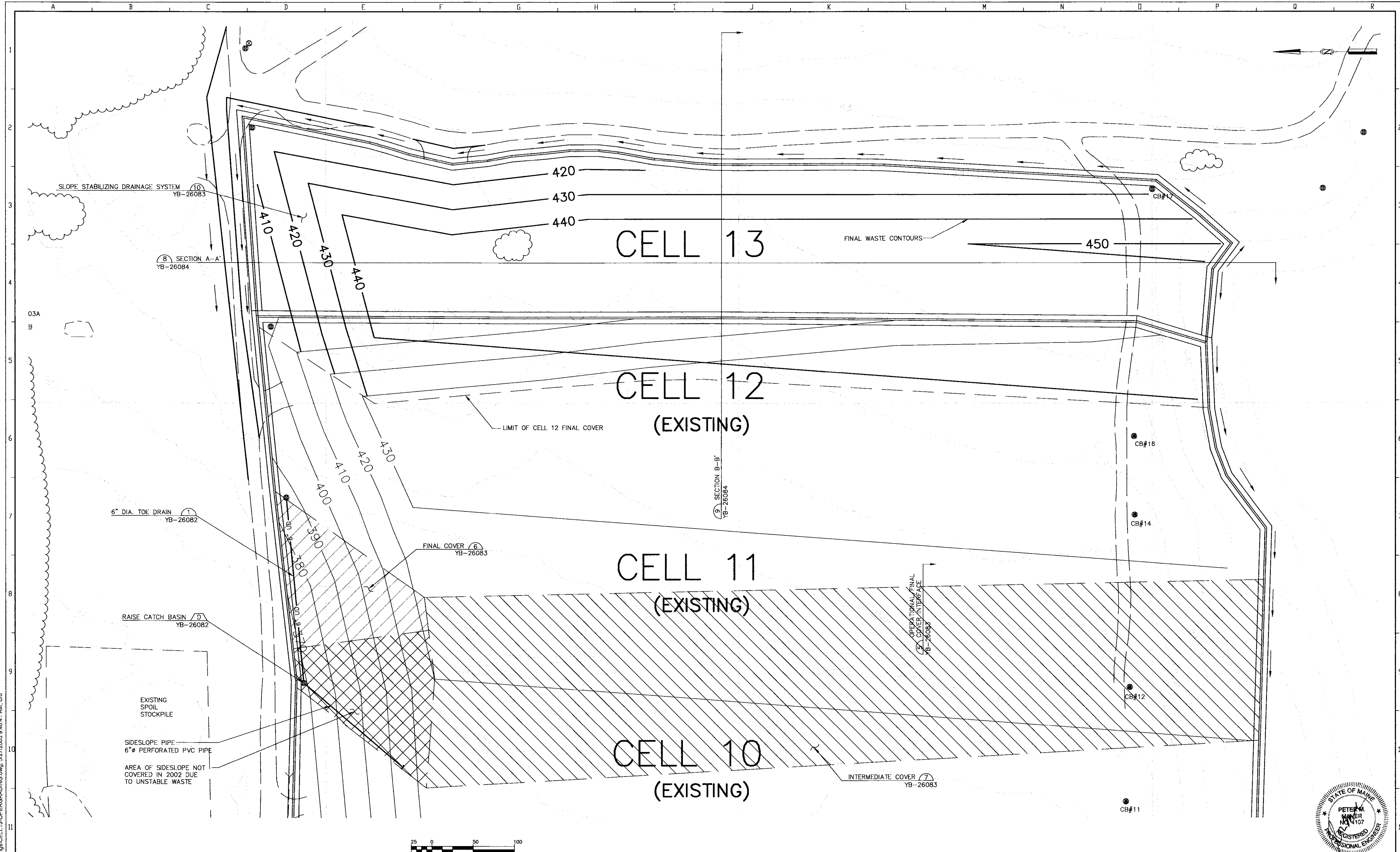
DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
 MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
CELL 13 - SITE DEVELOPMENT PLAN
 JOB NO. 24768
 FILE NO. 2-092-2082
YB-26080

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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	3	-	5/03	ASB	RECORD DRAWING													
2	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION													
1	-	-	-	P	SUBMITTED TO CLIENT													

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
 MILLINOCKET, MAINE

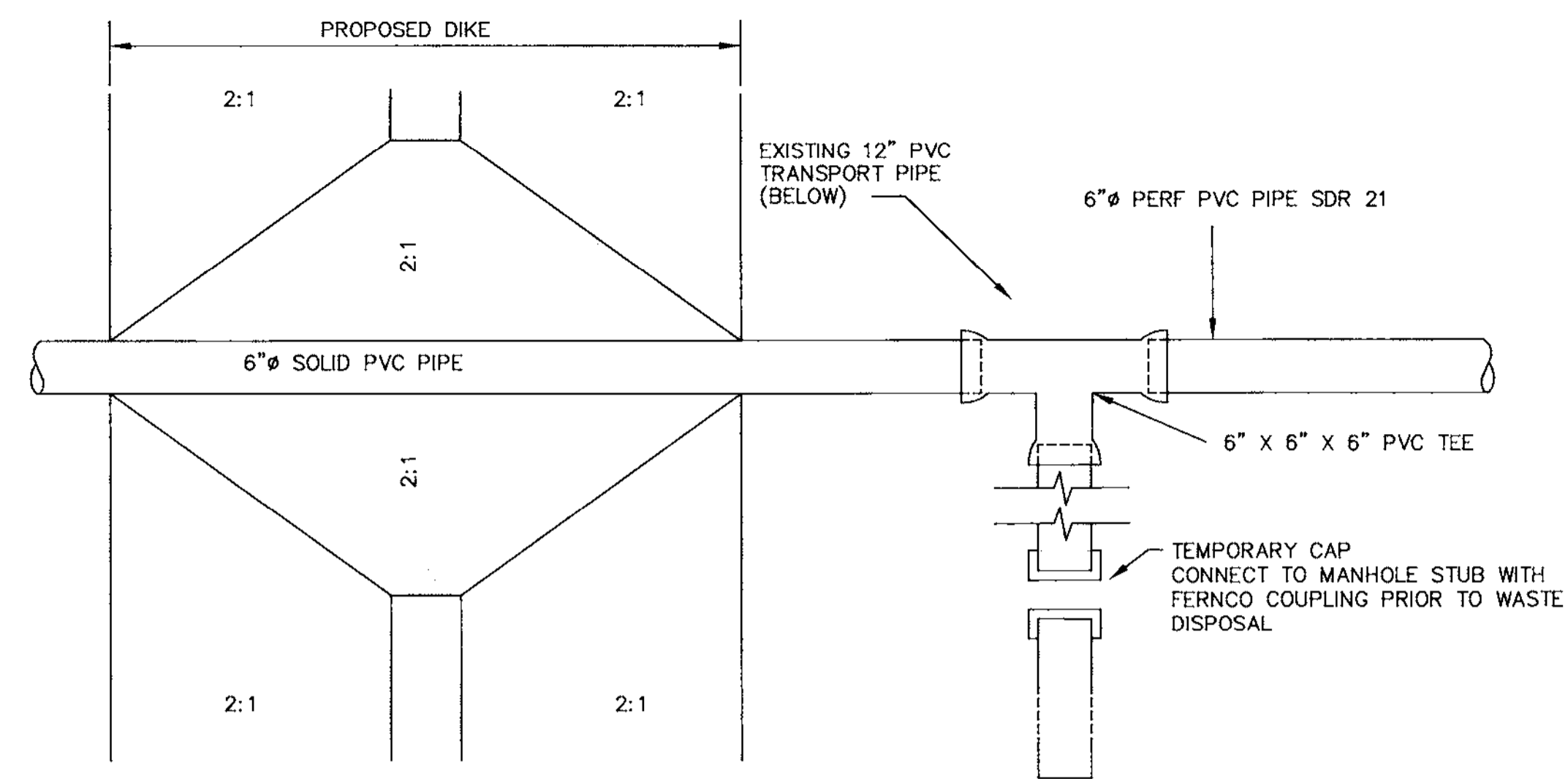
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EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
OPERATIONAL GRADING PLAN

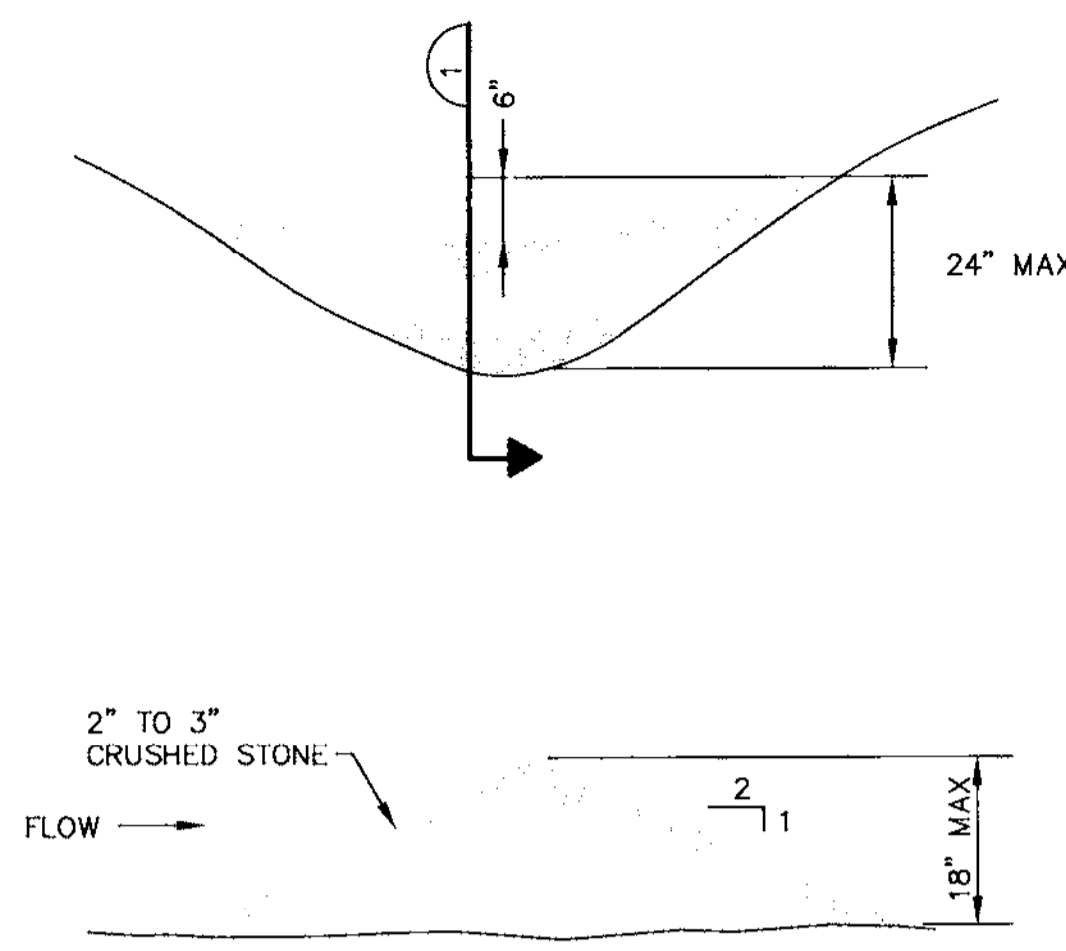
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 FILE NO. 2-02-7082
 LDC. NO.

YB-26081

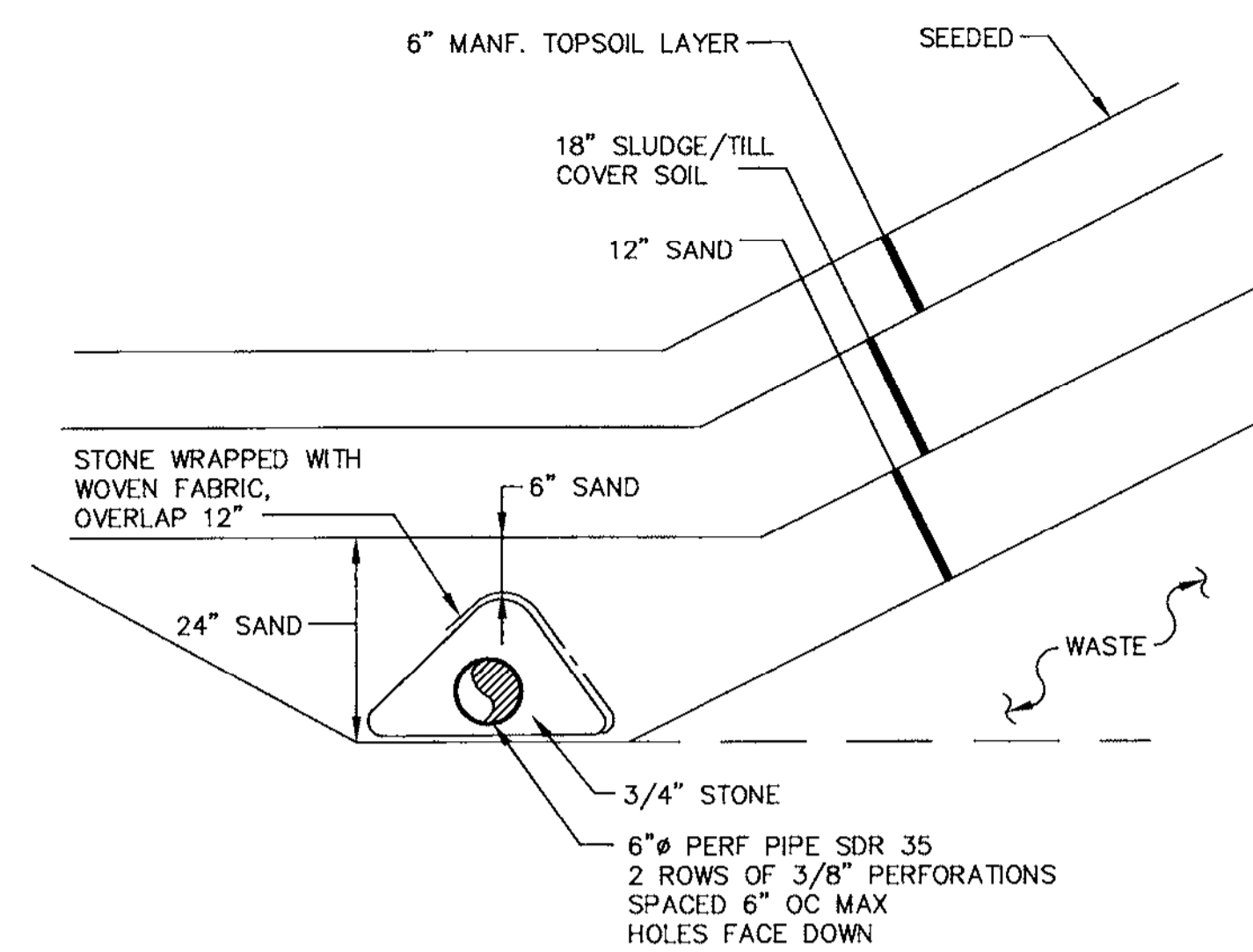
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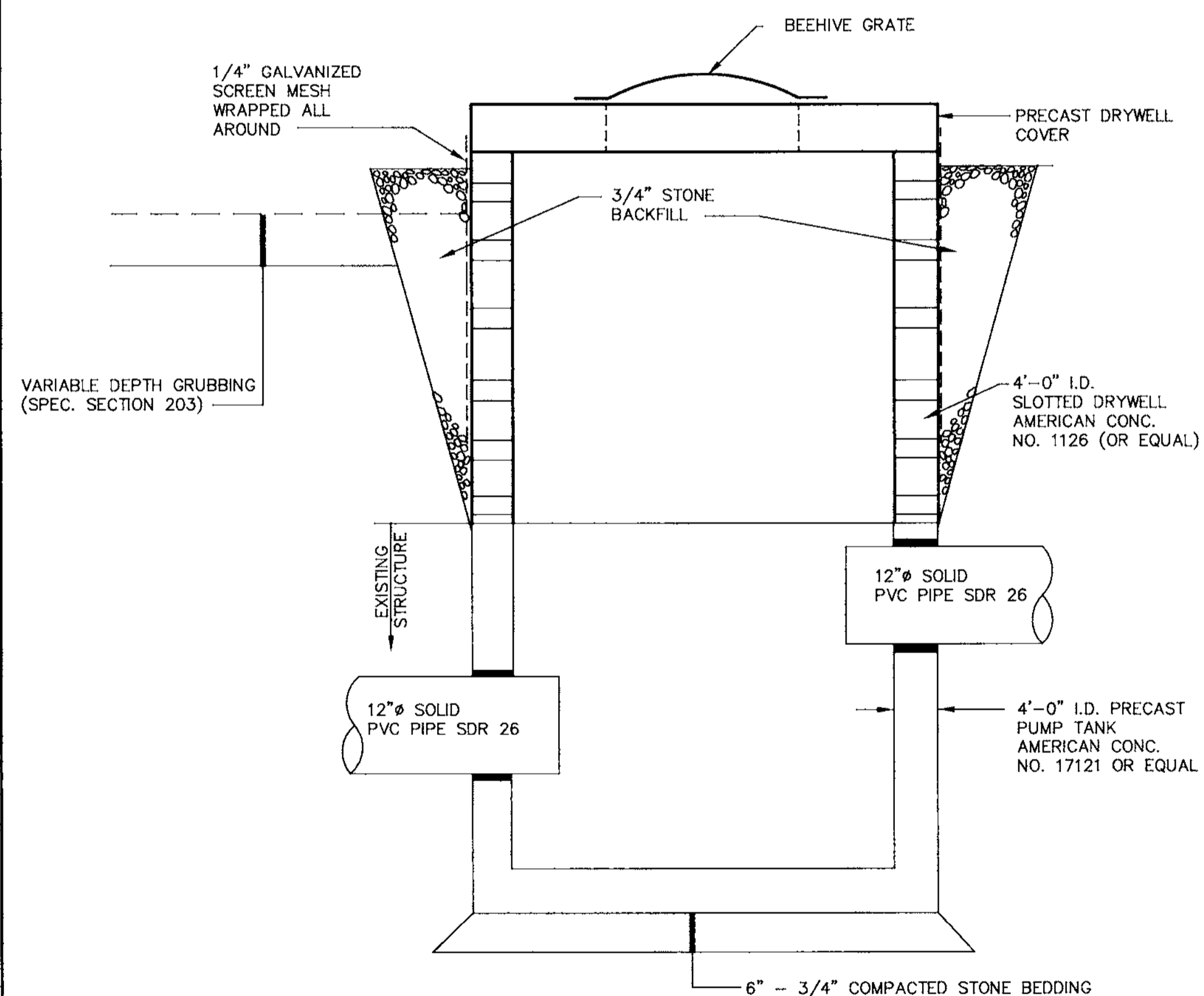
BRANCH CONNECTOR **A**
N.T.S. YB-26080



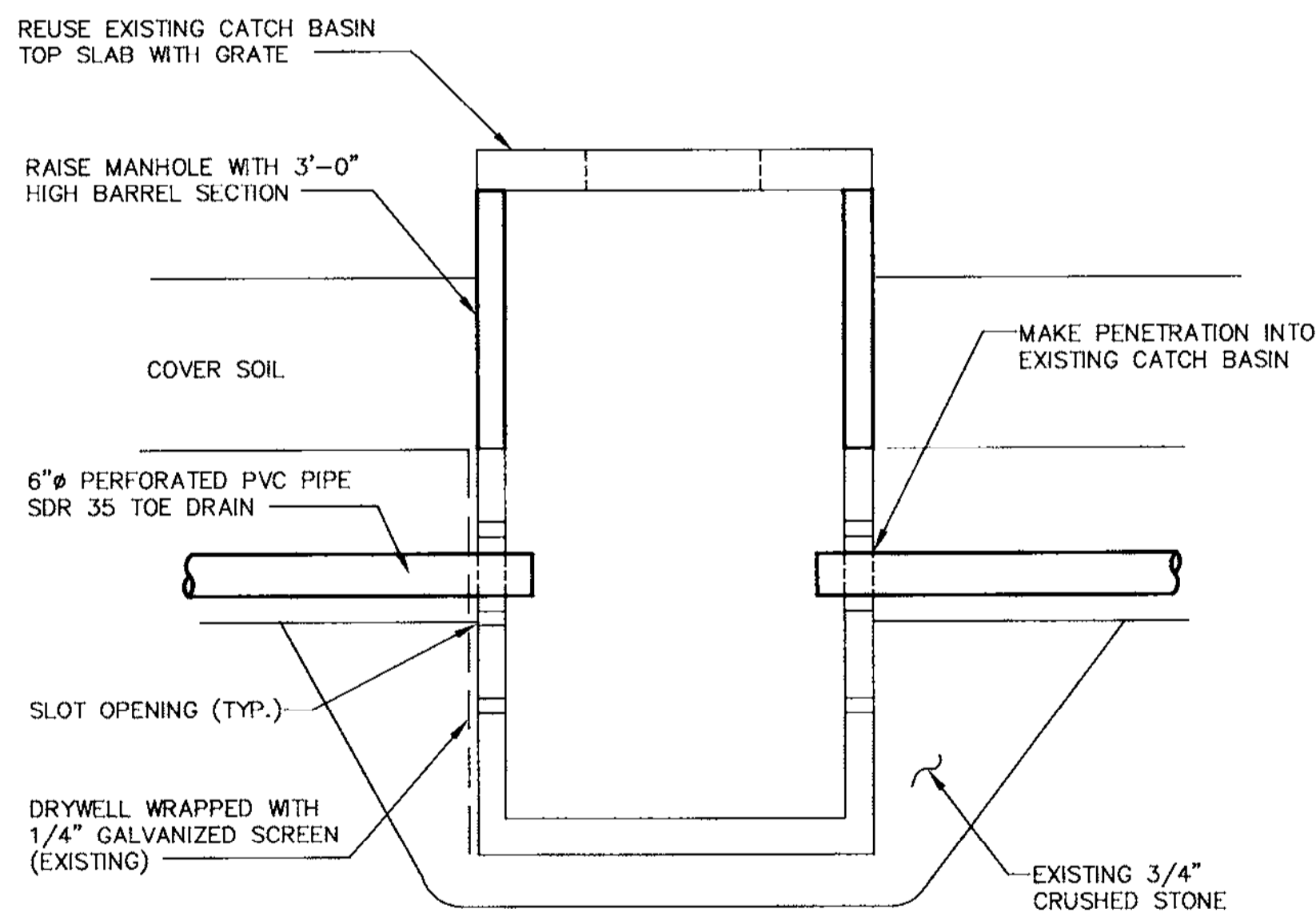
STONE CHECK DAM **C**
N.T.S. YB-26080



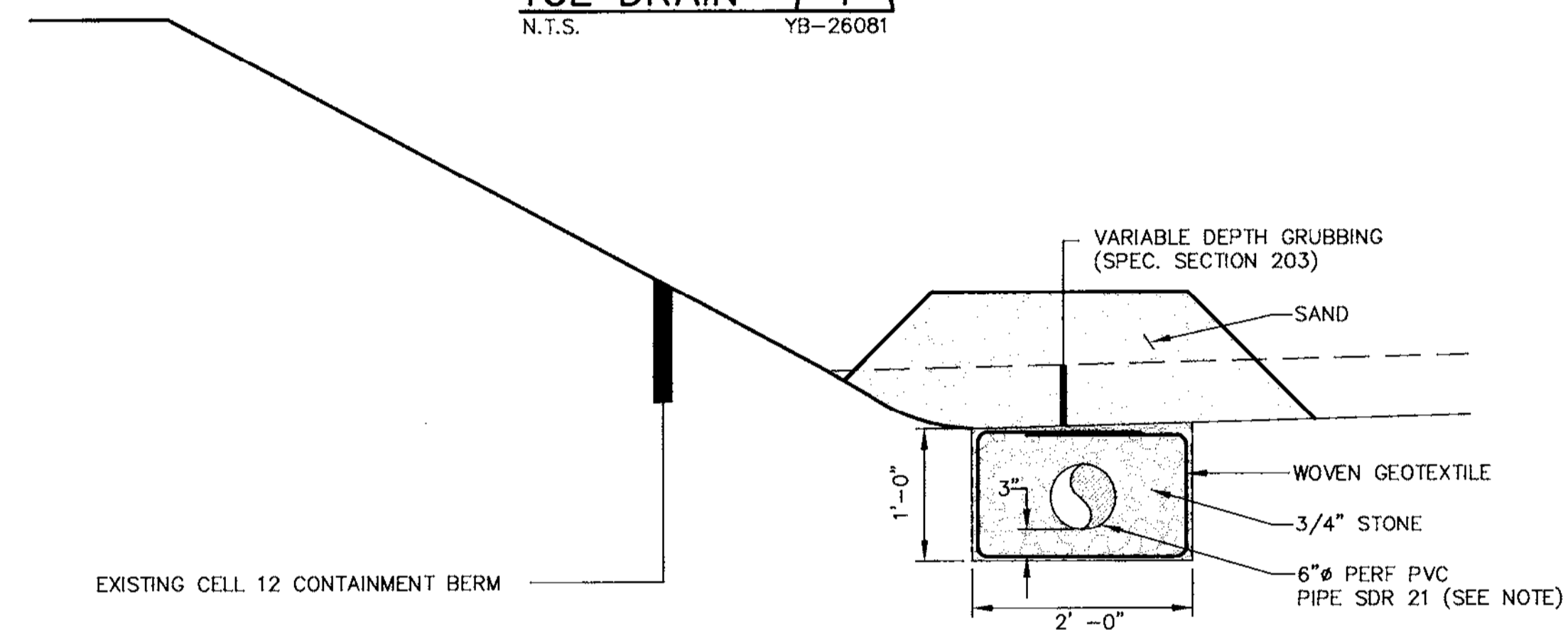
TOE DRAIN **1**
N.T.S. YB-26081



CATCH BASIN # 35 **B**
N.T.S. YB-26080

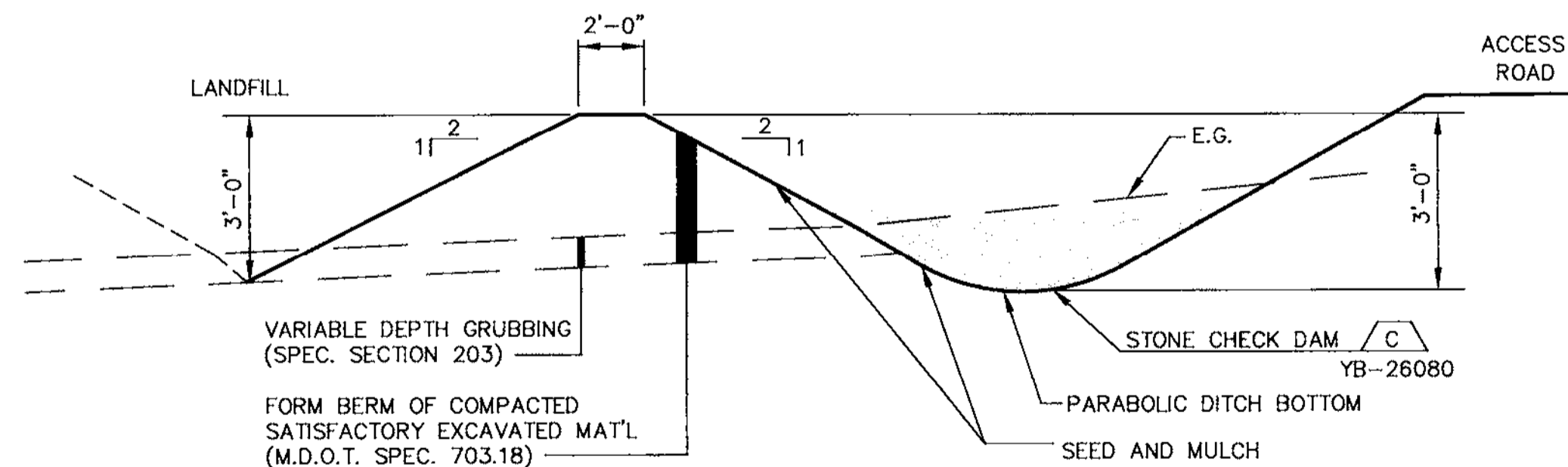


RAISE CATCH BASIN **D**
N.T.S. (EXISTING) YB-26081



6" LEACHATE COLLECTION PIPE **2**
N.T.S. YB-26080

NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS. ROWS SHALL BE MINIMUM 45', MAXIMUM 60' FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.



DIKE AND TYPE 2 DRAINAGE DITCH **3**
N.T.S. YB-26080

REV. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	5/03	ASB	RECORD DRAWING											
2	-	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION				GHC							
1	-	-	-	-	P	SUBMITTED TO CLIENT				GHC							

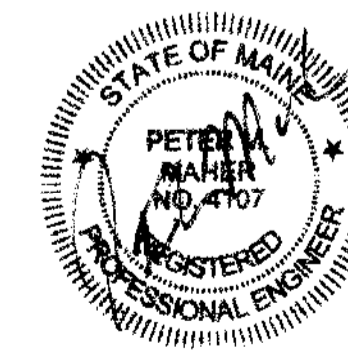
SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 02021

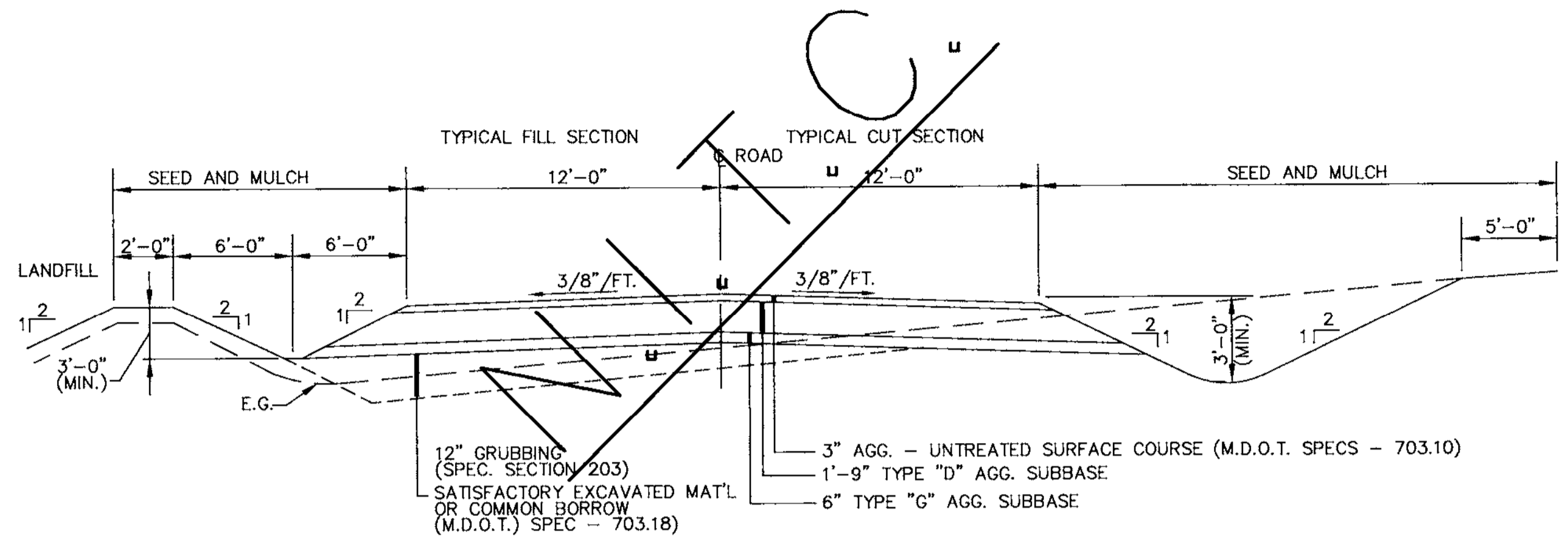
DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD	-	-
ISSUE CODE		
P	-	Preliminary
B	-	Bids
C	-	Construction
ASB	-	As Built
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

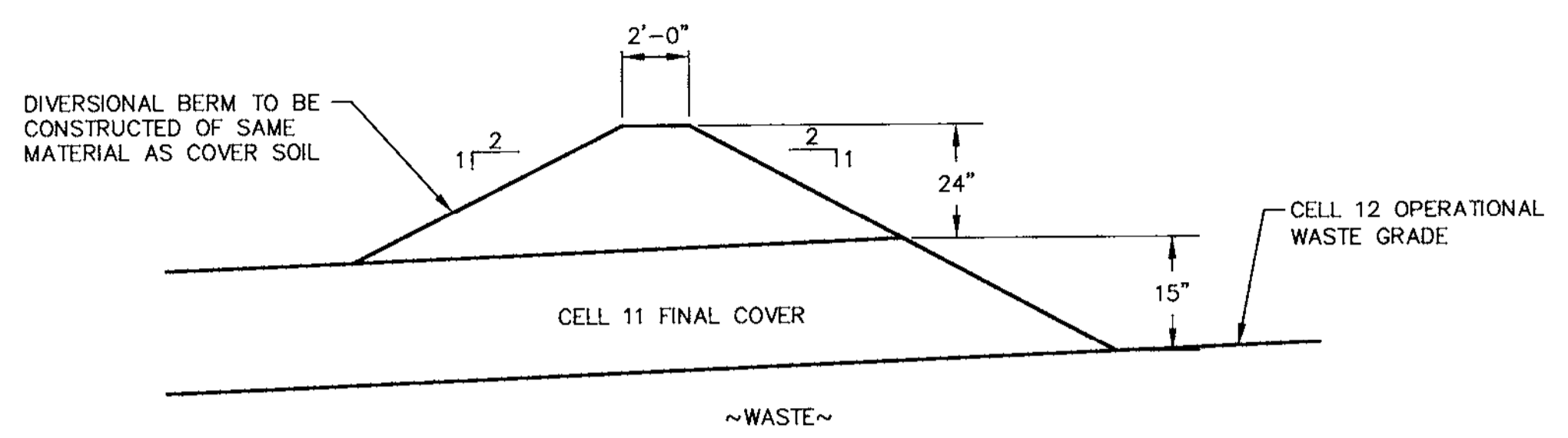
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EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS
YB-26082
JOB NO. 9476R
FILE NO. 2-092-7082
LDC. NO. _____
SHEET 1 OF 3

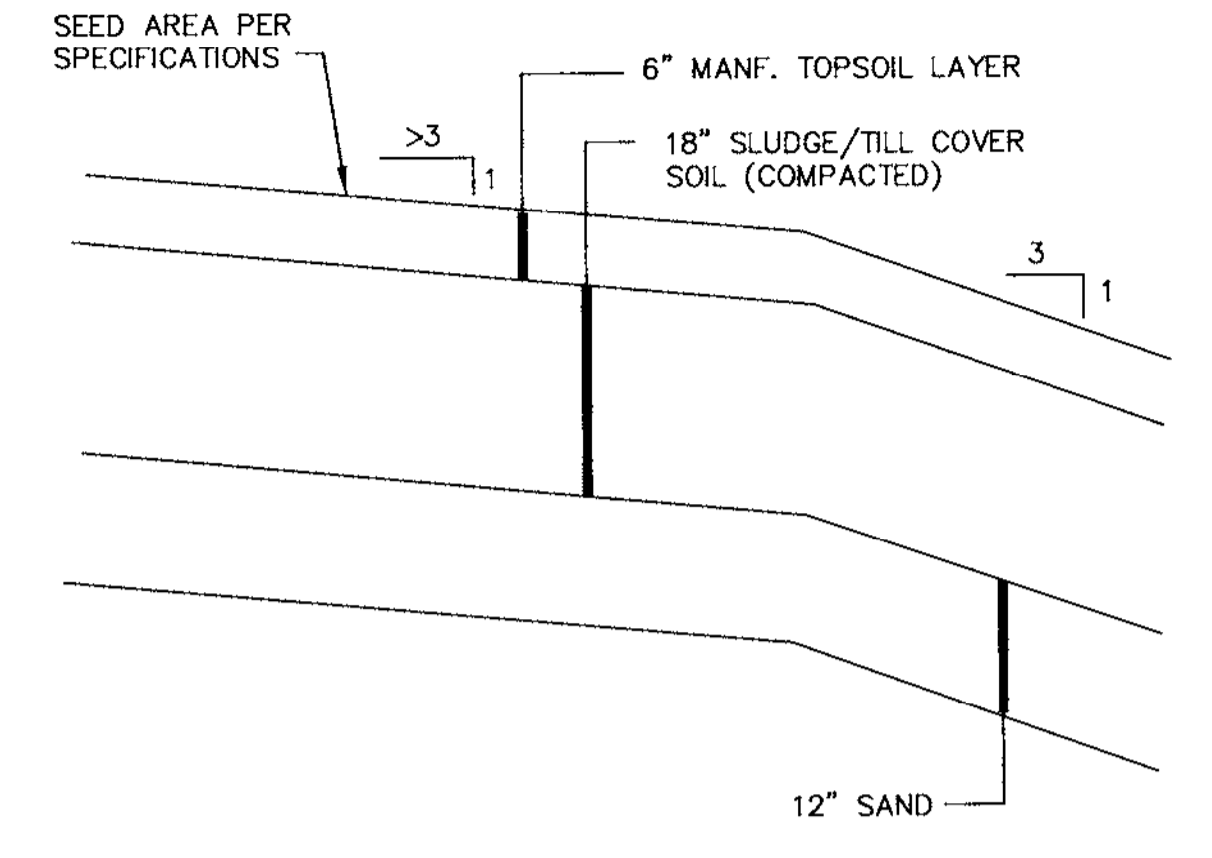




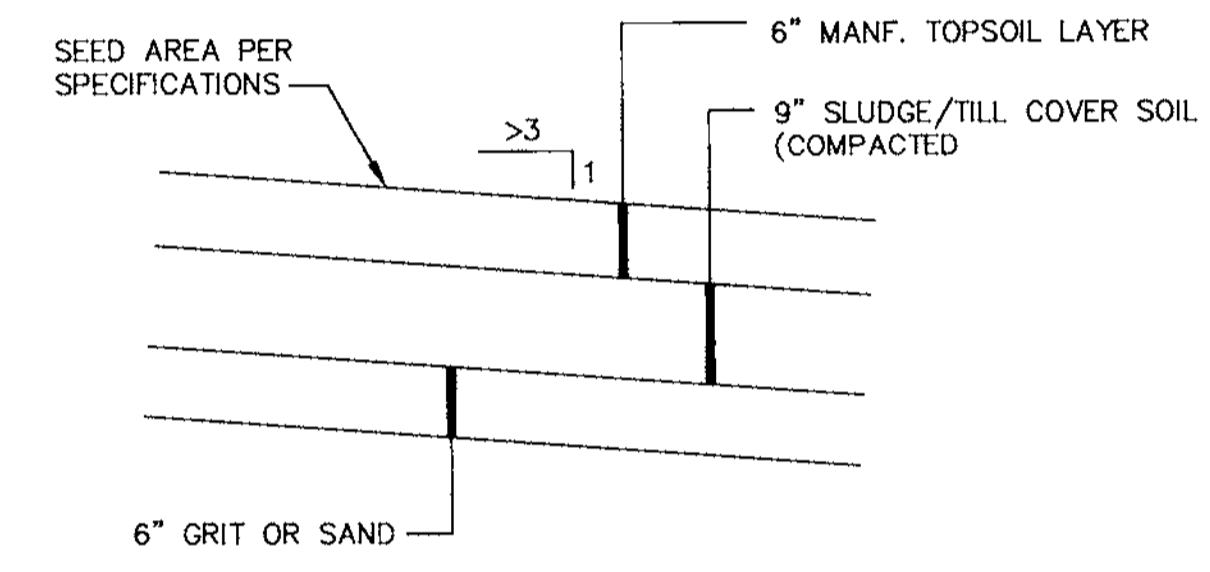
LANDFILL ACCESS ROAD (4)
N.T.S. YB-26080



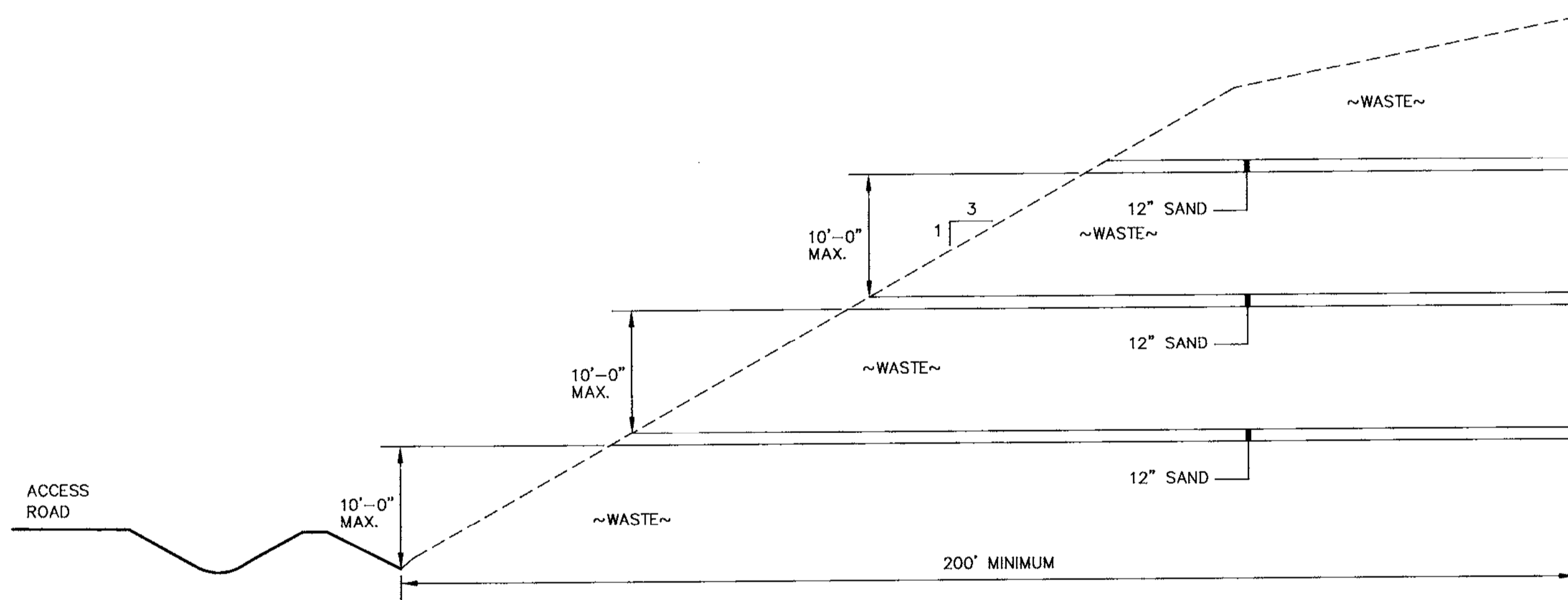
OPERATIONAL/FINAL COVER INTERFACE (5)
N.T.S. YB-26081



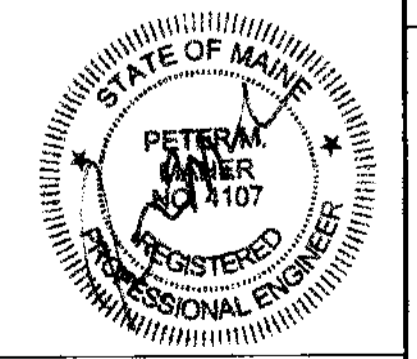
FINAL COVER (6)
N.T.S. YB-26081



INTERMEDIATE COVER (7)
N.T.S. YB-26081



SLOPE STABILIZING DRAINAGE SYSTEM (10)
N.T.S. YB-26081



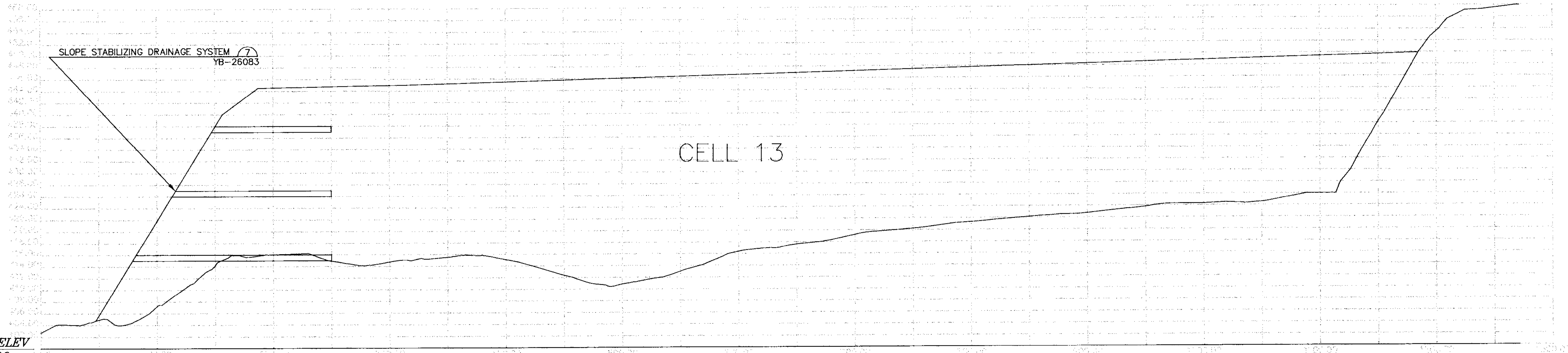
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3	-	-	-	5/03	ASB	RECORD DRAWING	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	P	SUBMITTED TO CLIENT	GHC	-	-	-	-	-	-	-	-	-	-

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 02021

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE
CAD FILE: DETAILS.DWG

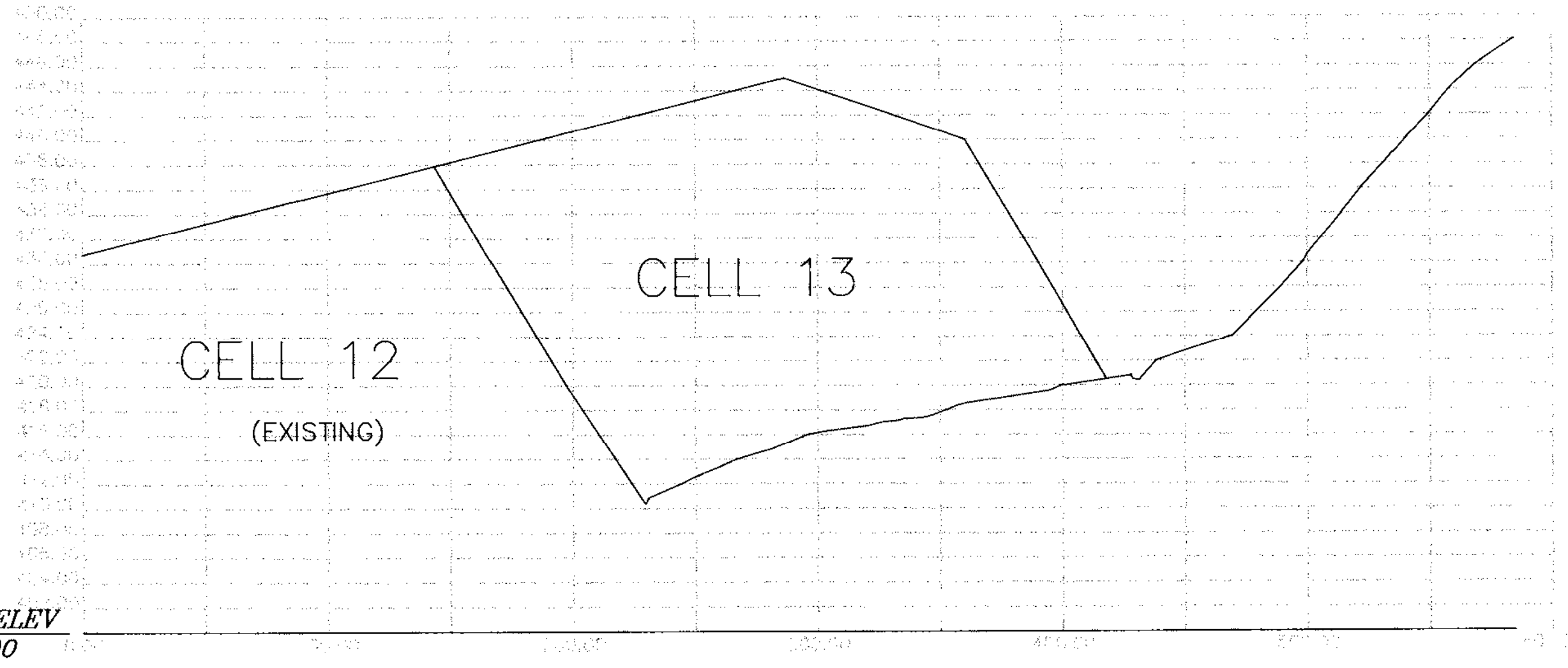
EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS
YB-26083
SHEET 2 OF 3

DATUM ELEV
400.00
GROUP
SECTION A-A'



SECTION A - A' 8
YB-26081

DATUM ELEV
400.00
GROUP
SECTION B-B'



SECTION B - B' 9
YB-26081



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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5	-																
4	-																
3	-			5/03	ASB	RECORD DRAWINGS											
2	-			4/29/02	C	ISSUED FOR CONSTRUCTION	GHC										
1	-				P	SUBMITTED TO CLIENT	GHC										

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 854
Cumberland Center, ME 04021

JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS
YB-26084
SHEET 3 OF 3

JOB NO. 94768
FILE NO. 2-032-7082
LIC. NO.

F:\G:\D\CAD\CAD\CELL13\Record Drawings\CELL13-OPERGRADING.dwg, 5/27/2003 10:01:46 AM, .dtd

SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
	NORTH ARROW (TRUE)		NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		DRAINAGE COURSE (WITH DIRECTION)		UG	UNDERGROUND GAS MAIN	
	NORTH ARROW (MAGNETIC)		NORTH ARROW (PLAN NORTH)		EDGE OF WATER		UT	UNDERGROUND TELEPHONE LINE			
	NORTH ARROW (PLAN NORTH)		CONTOUR LINES		WATER ELEVATION (GROUND OR SURFACE)		UE	UNDERGROUND ELECTRICAL LINE			
	CONTOUR LINES		SPOT ELEVATION (INVERT ELEVATION)		FENCE LINE (WOOD)		OE	OVERHEAD ELECTRICAL LINE			
	SPOT ELEVATION (INVERT ELEVATION)		EXISTING GROUND		FENCE LINE (WIRE)		OT	OVERHEAD TELEPHONE LINE			
	EXISTING GROUND		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		STONE WALL		12" SS	SANITARY SEWER			
	SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		PROPERTY LINE OR R.O.W.		RETAINING WALL		8" FM	FORCE MAIN			
	PROPERTY LINE OR R.O.W.		PROPERTY LINE W/ BEARING AND DISTANCE		GUARD RAIL		8" W	WATER MAIN			
	PROPERTY LINE W/ BEARING AND DISTANCE		CONSTRUCTION BASELINE		BUILDING AND STRUCTURES		12" SD	STORM DRAIN			
	CONSTRUCTION BASELINE		BOUNDARY LINE (State, County, Municipality)		SLOPE RATIO (HORIZONTAL TO VERTICAL)		8" UD	UNDERDRAIN			
	BOUNDARY LINE (State, County, Municipality)		SURVEY MONUMENT		SLOPES (WITH SLOPE RATIO)		6" PD	PERIMETER DRAIN			
	SURVEY MONUMENT		SURVEY CONTROL		EDGE OF ROAD		6" LT	LEACHATE TRANSPORT			
	SURVEY CONTROL		PROPERTY PIN, DRILL HOLE, PK, OR STAKE		CUT OR FILL LINE		6" LC	LEACHATE COLLECTION			
	PROPERTY PIN, DRILL HOLE, PK, OR STAKE		WOODS OR BRUSH LINE		BITUMINOUS PAVEMENT		6" LD	LEAK DETECTION			
	WOODS OR BRUSH LINE		INDIVIDUAL TREE		CONCRETE		6" G	GAS COLLECTION			
	INDIVIDUAL TREE		MAPPED WETLAND		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			REDUCER			
	MAPPED WETLAND		GAS VENT		TEST PIT AND NUMBER			MECHANICAL CAP OR PLUG			
	GAS VENT		GAS VENT (CAPPED)		SURFACE WATER SAMPLE LOCATION			COUPLING			
	GAS VENT (CAPPED)		CLEAN OUT STRUCTURE		GAS EXTRACTION WELL			BEND			
	CLEAN OUT STRUCTURE		CULVERT		MANHOLE			TEE			
	CULVERT		RAILROAD		CATCH BASIN			PIPE TO BE ABANDONED			
	RAILROAD		SLOPE INCLINOMETER		WATER OR GAS VALVE			RISER PIPE & INLET GRATE			
	SLOPE INCLINOMETER		VIBRATING WIRE SETTLEMENT CELL		HYDRANT			STORM GRATE			
	VIBRATING WIRE SETTLEMENT CELL		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT		AIR RELEASE VALVE			DRAINAGE INLET STRUCTURE			
	VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT		VERTICAL DISPLACEMENT MONUMENT		SURGE RELEASE VALVE			UNDERDRAIN SUMP			
	VERTICAL DISPLACEMENT MONUMENT		LIQUID SETTLEMENT GAGE		UTILITY POLE			SILTATION FENCE			
	LIQUID SETTLEMENT GAGE		LIGHT POLE		CLEARING OR CONSTRUCTION LIMIT LINE						

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW -- MDOT SPECIFICATION 703.18

STONE BEDDING -- THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

3/4" STONE -- THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

SAND BLANKET -- MDOT SPECIFICATION 703.05

COMPACTION -- DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PVC PIPE -- SDR 35

12" LEACHATE TRANSPORT PIPE -- SOLID HANCOR TITELINE

SEED AND FERTILIZER:

ARFAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	TALL FESCUE	50%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

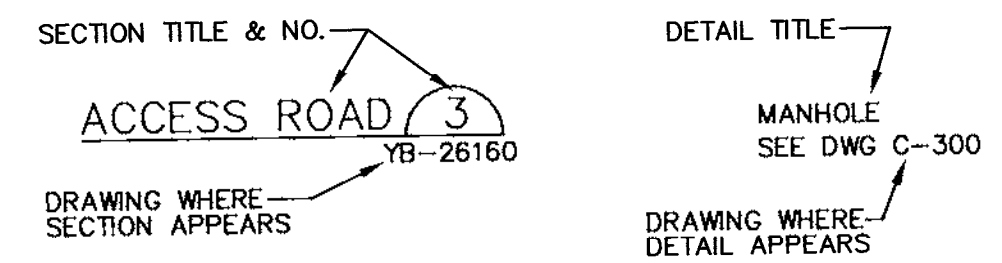
MULCH -- THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION -- MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

ACOMP	ASPHALT COATED CMP	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
ADP	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HORIZ	HORIZONTAL	PP	POWER POLE
AC	ACRE	DEG	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
AGG	AGGREGATE	DEPT	DEPARTMENT	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	DI	DIAMETER	ID	INSIDE DIAMETER	PVMT	PAVEMENT
APPROX	APPROXIMATE	DIA OR #	DIAMETER	IN	INCHES	QTY	QUANTITY
ARMH	AIR RELEASE MANHOLE	DM	DIMENSION	INVT	INVERT	RCP	REINFORCED CONCRETE PIPE
ASB	ASBESTOS	DIST	DISTANCE	INV	INVERT ELEVATION	ROW	RIGHT OF WAY
ASP	ASPHALT	DN	DOWN	INV EL	INVERT ELEVATION	RAD	RADIUS
AUTO	AUTOMATIC	DR	DRAIN	LB	POUND	REQD	REQUIRED
AUX	AUXILIARY	DWG	DRAWING	LC	LEACHATE COLLECTION	RT	RIGHT
AVE	AVENUE	EA	EACH	LD	LEAK DETECTION	ROUTE	ROUTE
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LF	LINEAR FEET	RTE	ROUTE
		ELEC	ELECTRIC	LOC	LOCATION	S	SLOPE
		EL	ELEVATION	LOC	LOCATION	SCH	SCHEDULE
		ELB	ELBOW	LT	LEACHATE TRANSPORT	SF	SQUARE FEET
BCOMP	BITUMINOUS COATED CMP	EOP	EDGE OF PAVEMENT	MH	MANHOLE	SHT	SHEET
BM	BENCH MARK	EQUIP	EQUIPMENT	MJ	MECHANICAL JOINT	SMH	SANITARY MANHOLE
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL	ST	STREET
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM	STA	STATION
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE	SY	SQUARE YARD
BV	BALL VALVE	FG	FINISH GRADE	MIN	MINIMUM	TAN	TANGENT
		FBGL	FIBERGLASS	MON	MISCELLANEOUS MONUMENT	TDH	TOTAL DYNAMIC HEAD
CB	CATCH BASIN	FDN	FOUNDATION			TEMP	TEMPORARY
CEM	CENTER	FLG	FLANGE	NITC	NOT IN THIS CONTRACT	TRP	TYPICAL
CEM LIN	CEMENT LINED	FLR	FLOOR	NTS	NOT TO SCALE	UD	UNDERDRAIN
CMP	CORRUGATED METAL PIPE	FLS	FLOOR FINISH	N/F	NOW OR FORMERLY	V	VOLTS
CD	CLEAN OUT	FT	FEET	NO OR #	NUMBER	VA	VALVE ANCHORING TEE
CF	CUBIC FEET	FT OR	FEET OR	OC	ON CENTER	VERT	VERTICAL
CFS	CUBIC FEET PER SECOND	FTG	FOOTING	OD	OUTSIDE DIAMETER	WG	WATER GATE
CI	CAST IRON	GA	GAUGE	PC	POINT OF CURVE	W/	WITH
CL	CLASS	GAL	GALLON	PD	PERIMETER DRAIN	W/O	WITHOUT
CONC	CONCRETE	GALV	GALVANIZED	PI	POINT OF INTERSECTION	YD	YARD
CONSTR	CONSTRUCTION	GPM	GALLONS PER MINUTE	PIV	POST INDICATOR VALVE		
CONTR	CONTRACTOR			PT	POINT OF TANGENT		
CS	CURB STOP						
CTR	CENTER						
CU	COPPER						
CY	CUBIC YARD						

VIEW MARKERS & IDENTIFICATION



REV. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
6																		
5																		
4																		
3																		
2				7/12/04	C	ISSUED FOR CONSTRUCTION												
1				6/15/04	P	SUBMITTED TO CLIENT	GHC											

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

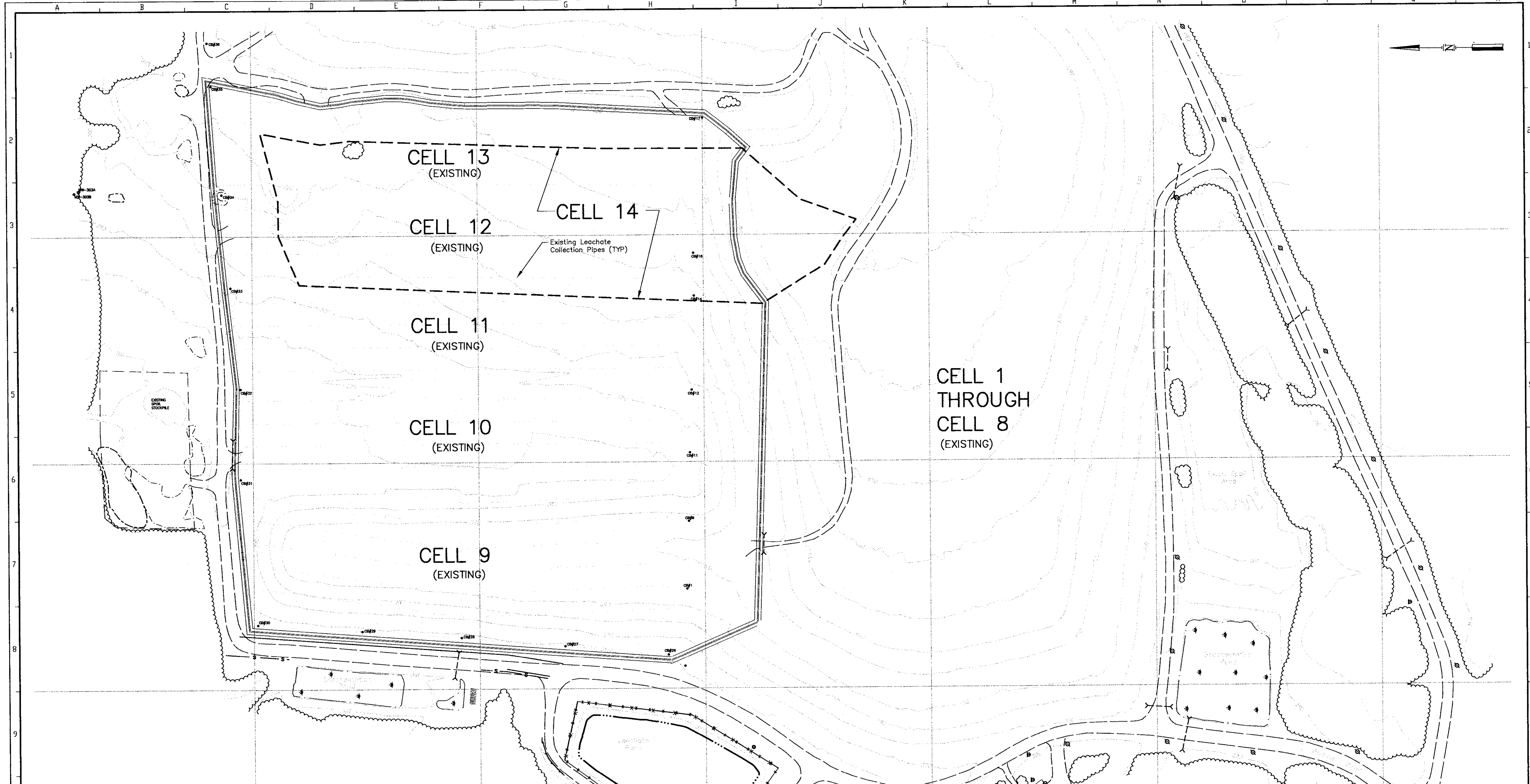
EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO. _____

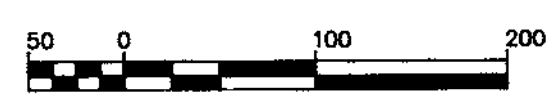
YB-26160

CAD FILE: SYMSHT.DWG

JOB NO. 04011.04



- GENERAL NOTES:**
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE. PHOTOGRAPH DATED 5/1/99.
 2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
 3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
 5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 13. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



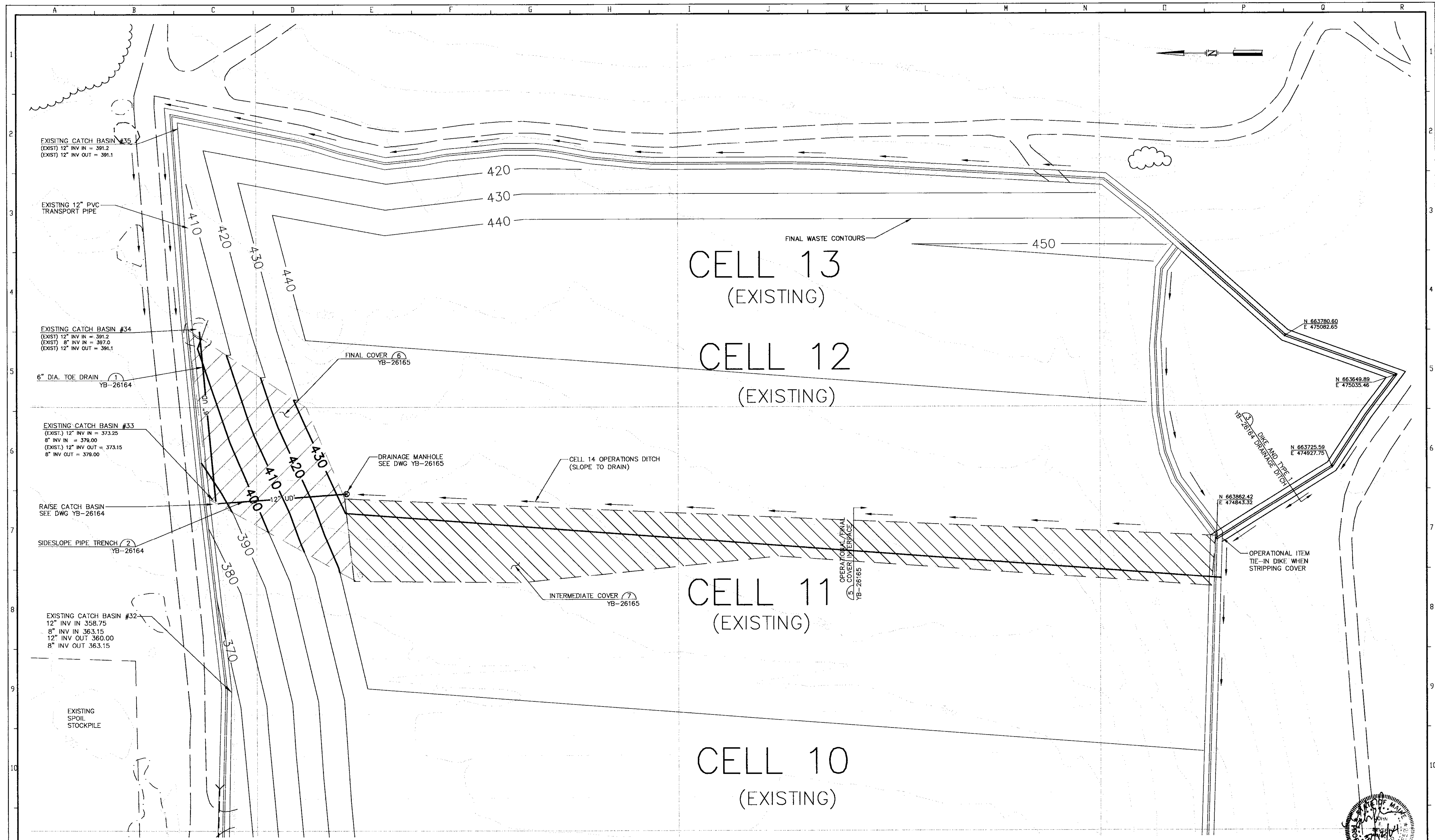
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1			P	6/15/04		SUBMITTED TO CLIENT												
2			C	7/12/04		ISSUED FOR CONSTRUCTION												

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 04011.04

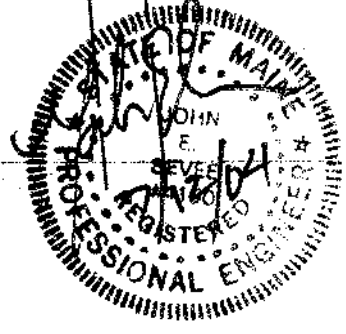
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: CELL14-EXCON.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
EXISTING CONDITIONS PLAN
 JOB NO. 46226
 FILE NO. 2-992-7082
 LIC. NO. _____
YB-26161

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CELL 14 OPERATION NOTES (PRIOR TO FILLING)
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 6.



REV.	DATE	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION
6									
5									
4									
3									
2	7/12/04	C							ISSUED FOR CONSTRUCTION
1	6/15/04	P							SUBMITTED TO CLIENT

SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

DRN	PAF	6/14/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE:		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

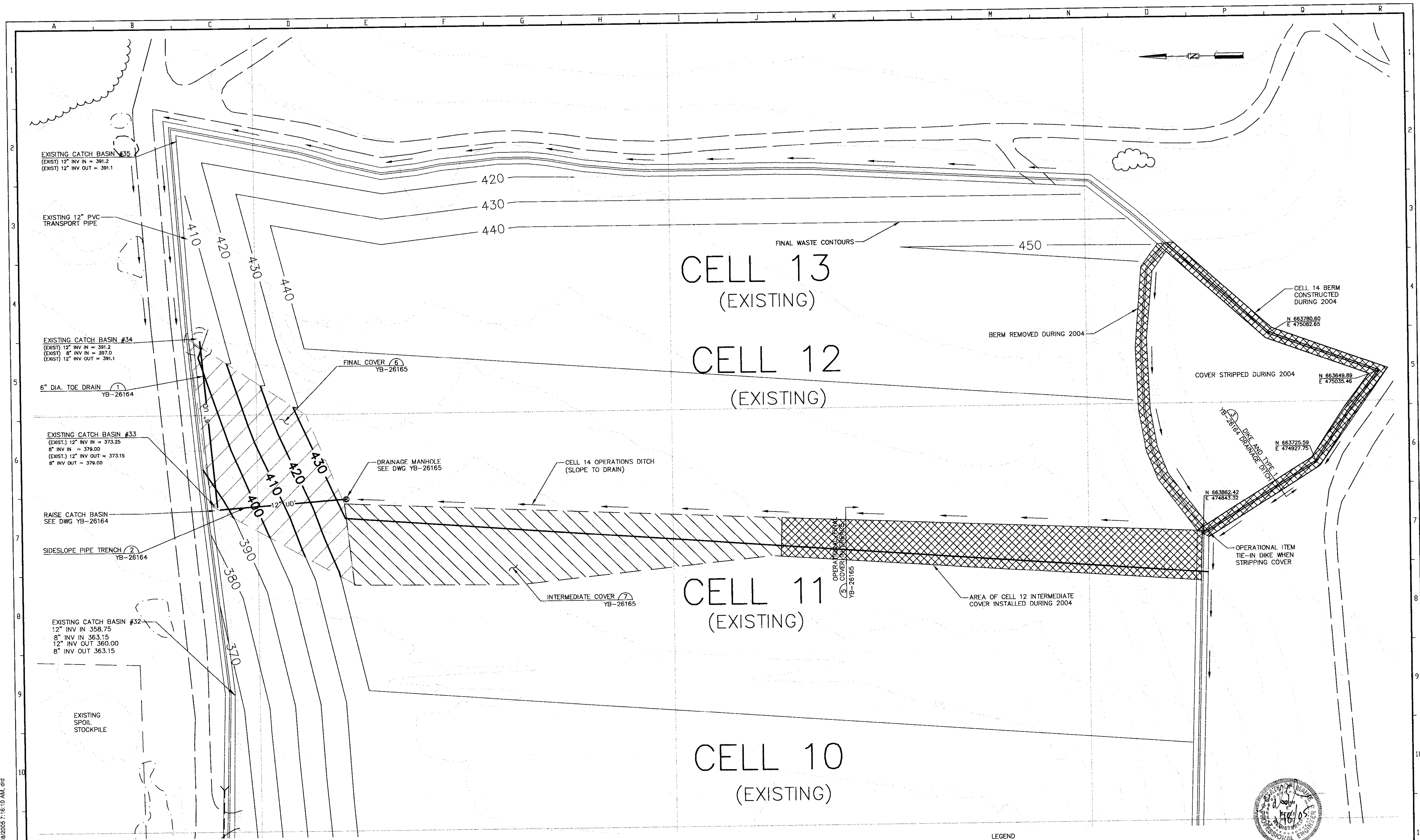
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EAST OPERATION
 DOLBY III LANDFILL
 CELL 14 CONSTRUCTION
 CELL 12 CLOSURE
 SITE DEVELOPMENT PLAN

JOB NO. 46226
 FILE NO. 2-092-7082
 LOC. NO.

YB-26162

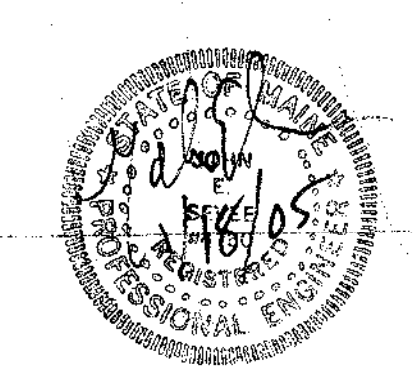
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CELL 14 OPERATION NOTES (PRIOR TO FILLING)
 STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 6.



LEGEND
 2004 CONSTRUCTION ACTIVITIES



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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3	-	-	-	1/18/05	C	ADDED 2004 CONSTRUCTION ACTIVITIES	GHC	-	-	-	-	-	-	-	-	-	-
2	-	-	-	7/12/04	C	ISSUED FOR CONSTRUCTION	GHC	-	-	-	-	-	-	-	-	-	-
1	-	-	-	6/15/04	P	SUBMITTED TO CLIENT	GHC	-	-	-	-	-	-	-	-	-	-

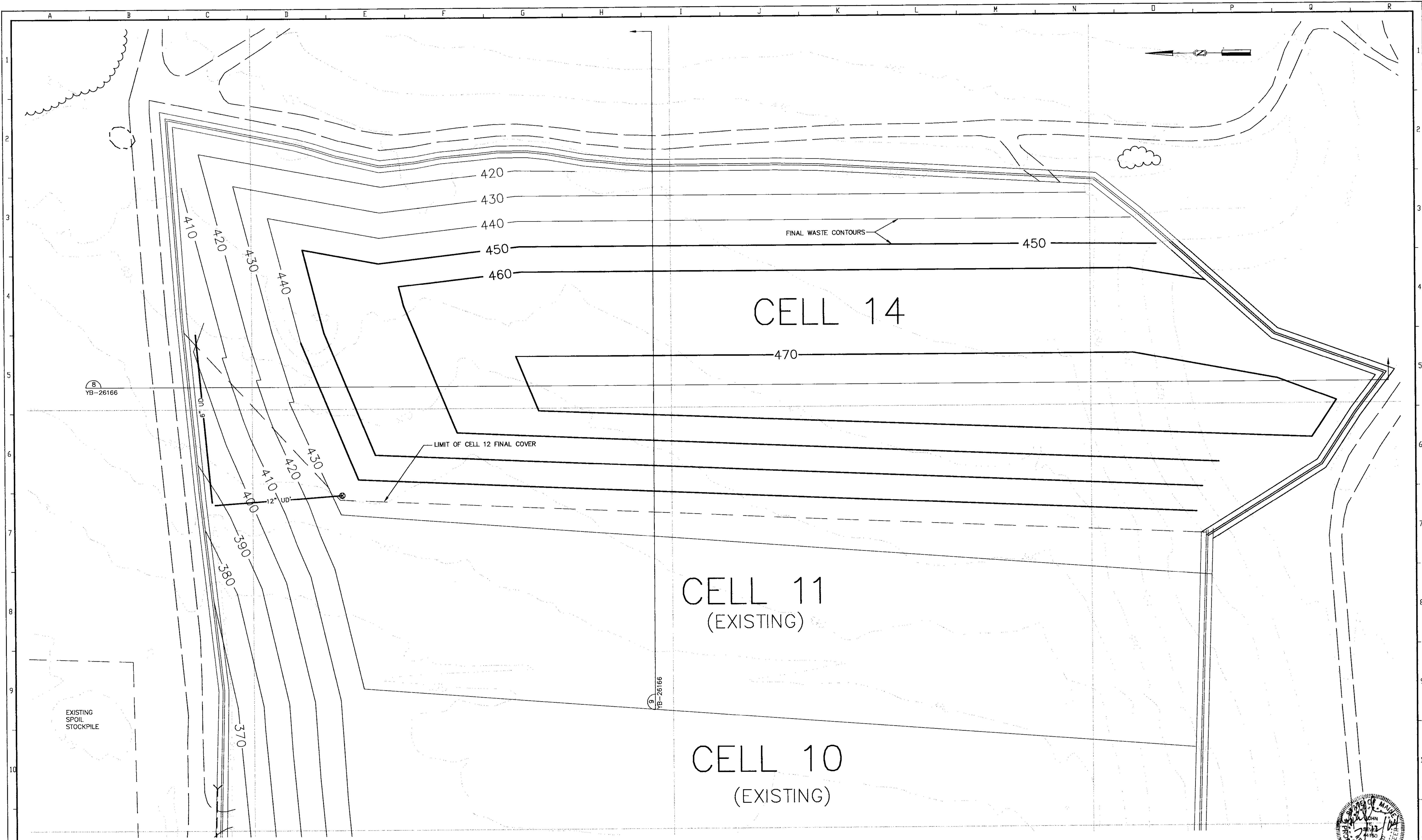
SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 04011.04

DRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
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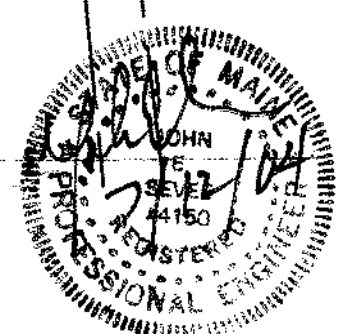
EAST OPERATION
 DOLBY III LANDFILL
 CELL 14 CONSTRUCTION
 CELL 12 CLOSURE
 2004 CONSTRUCTION ACTIVITIES
 JOB NO. 46226
 FILE NO. 2-092-7082
 LDC. NO. **YB-26162A**

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B
YB-26166

EXISTING
SPOIL
STOCKPILE



REV.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	7/12/04	C	ISSUED FOR CONSTRUCTION												
1	-	-	-	6/15/04	P	SUBMITTED TO CLIENT												

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

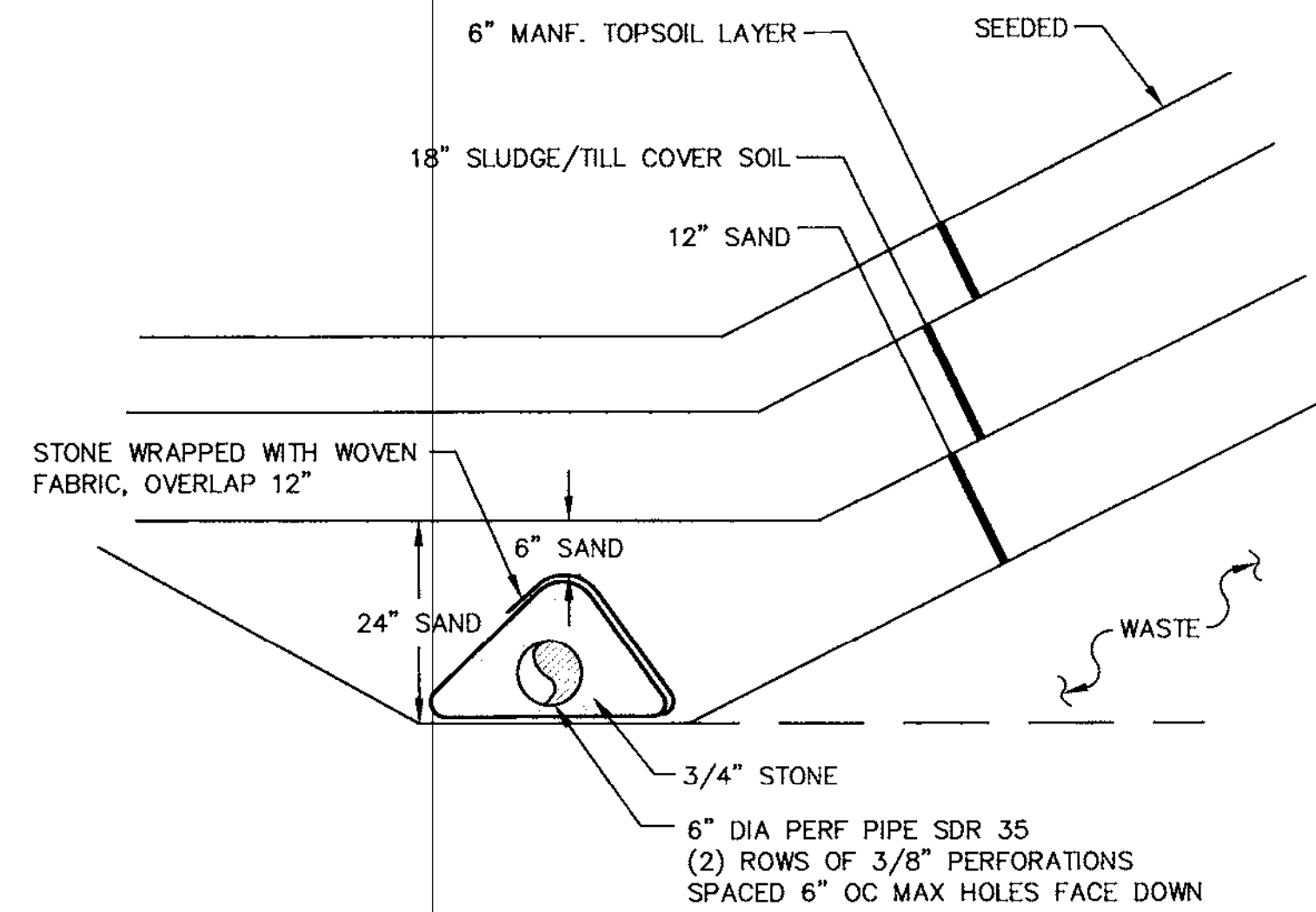
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL14-OPERGRADING.DWG

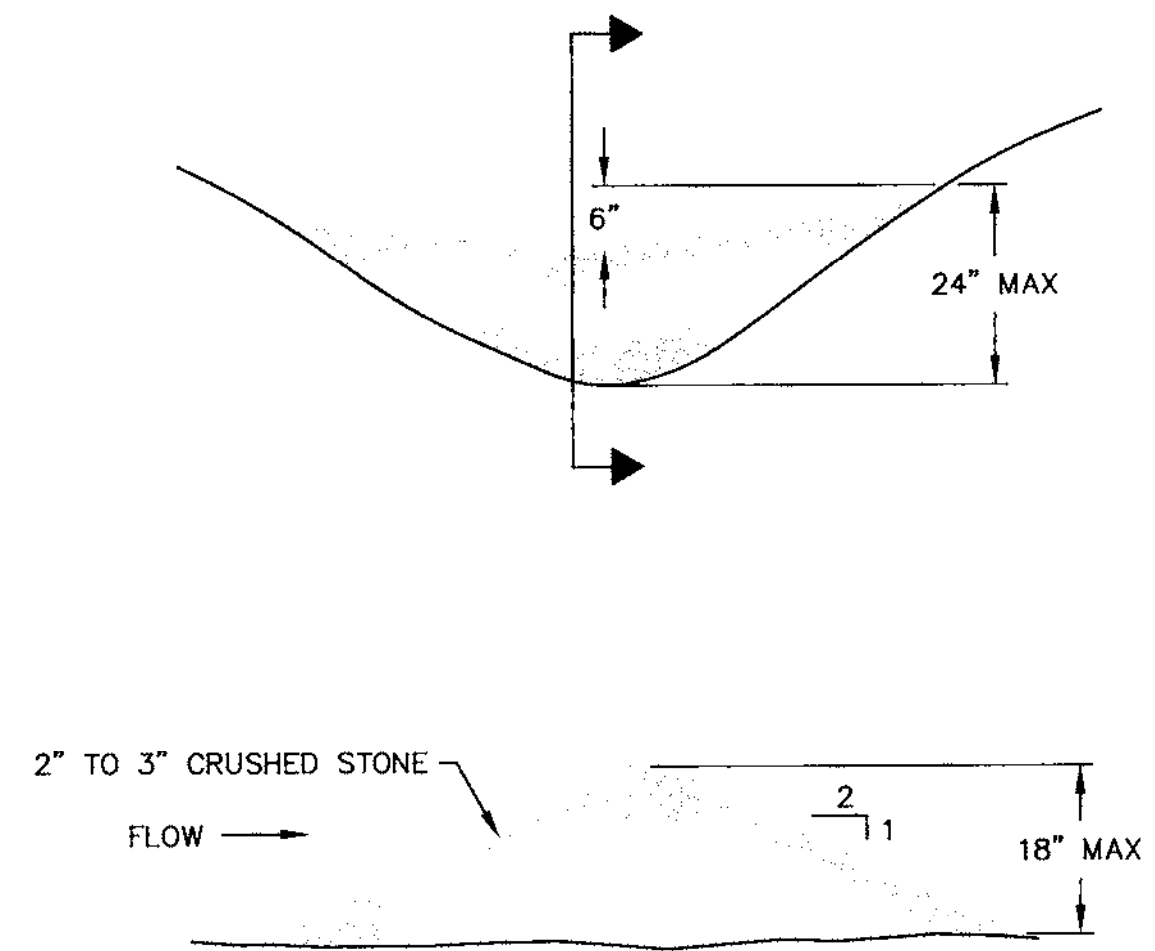
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DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
CELL 14-OPERATIONAL GRADING PLAN
JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO. **YB-26163**

JOB NO. 04011.04

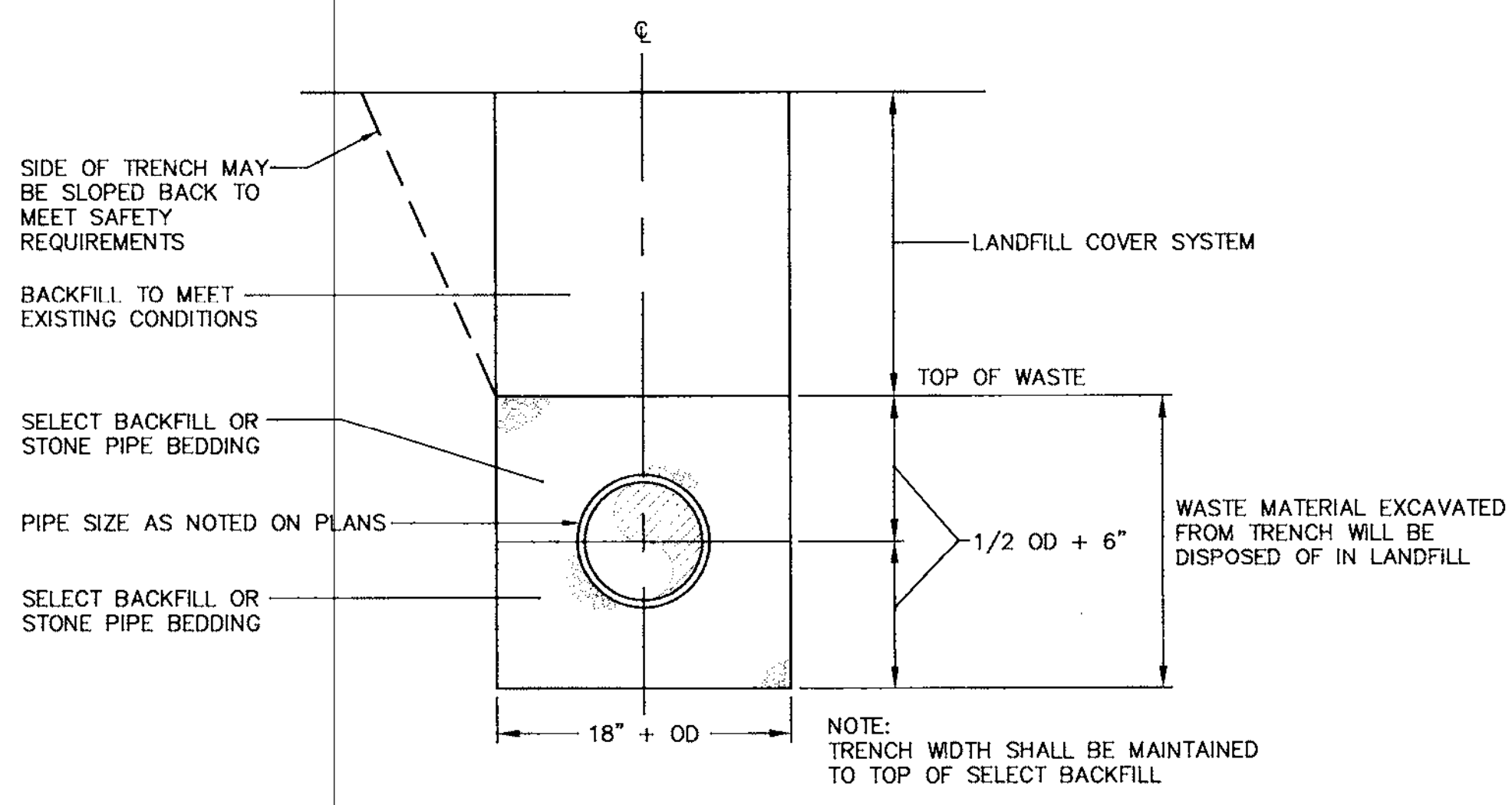
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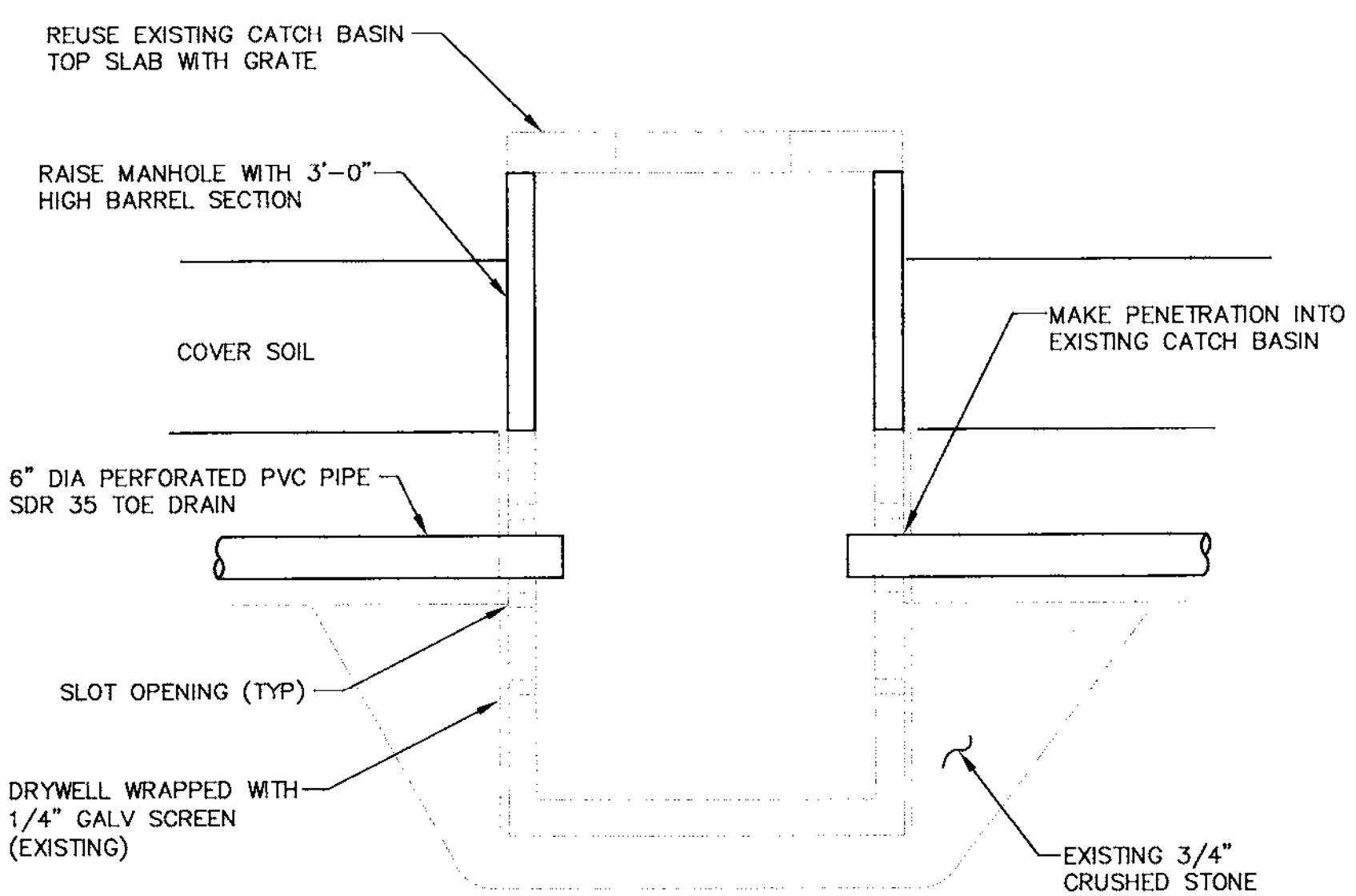
TOE DRAIN 1
NTS YB-26162



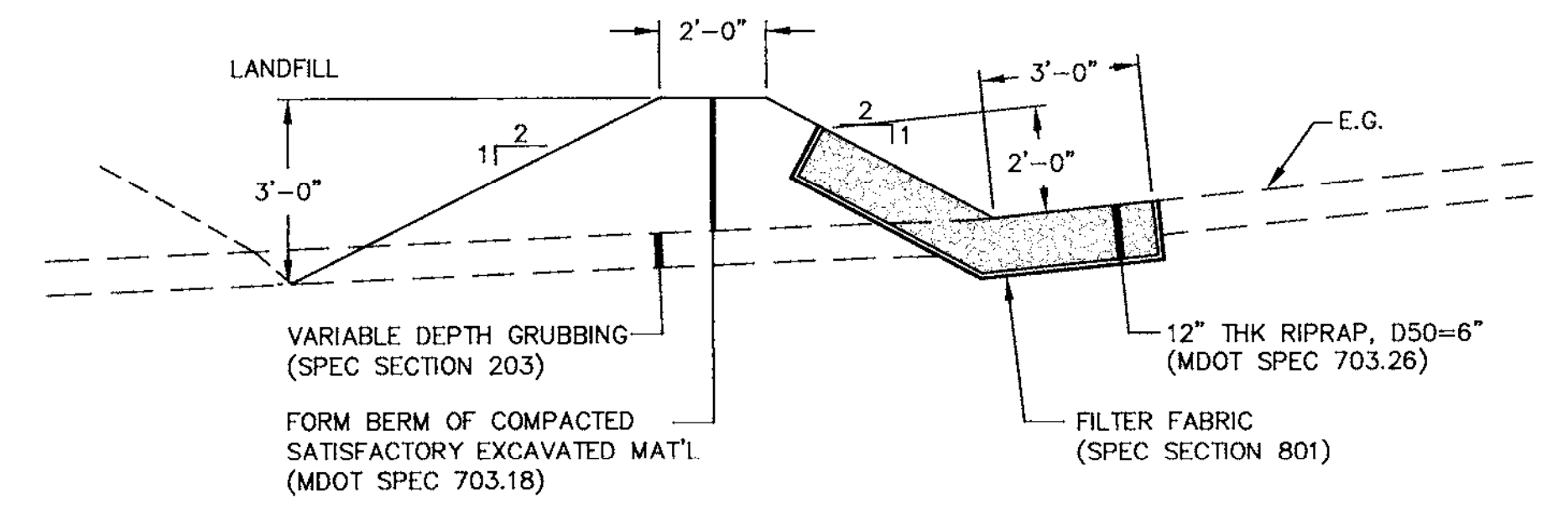
**SECTION
STONE CHECK DAM**
NTS



SIDESLOPE PIPE TRENCH 2
NTS YB-26162



RAISE CATCH BASIN
NTS (EXISTING)



DIKE AND TYPE 1 DRAINAGE DITCH 3
NTS YB-26162



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NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	7/12/04	C	ISSUED FOR CONSTRUCTION	GHC											
1	-	-	-	6/15/04	P	SUBMITTED TO CLIENT	GHC											

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD	-	-
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE: NONE		

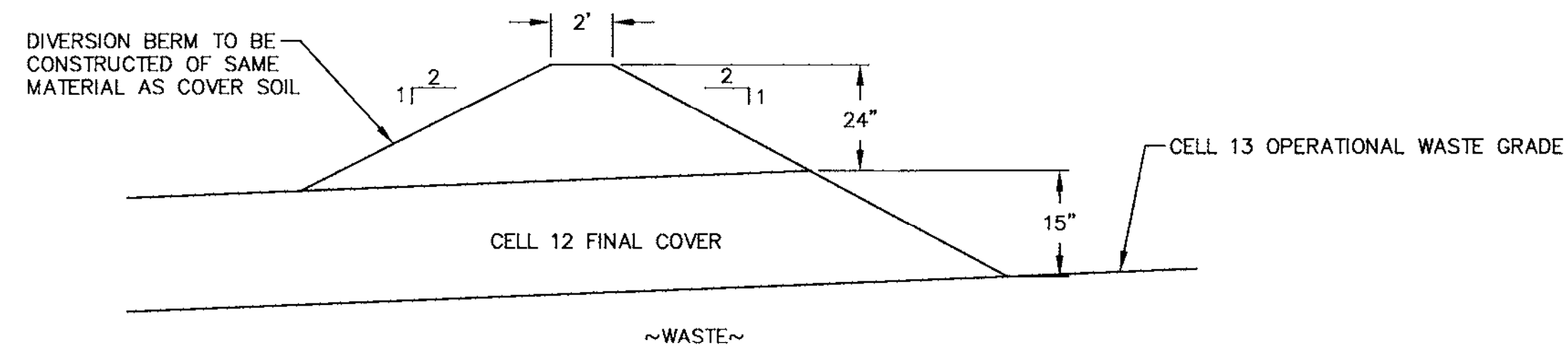
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
SECTION 12 CLOSURE
SECTIONS & DETAILS

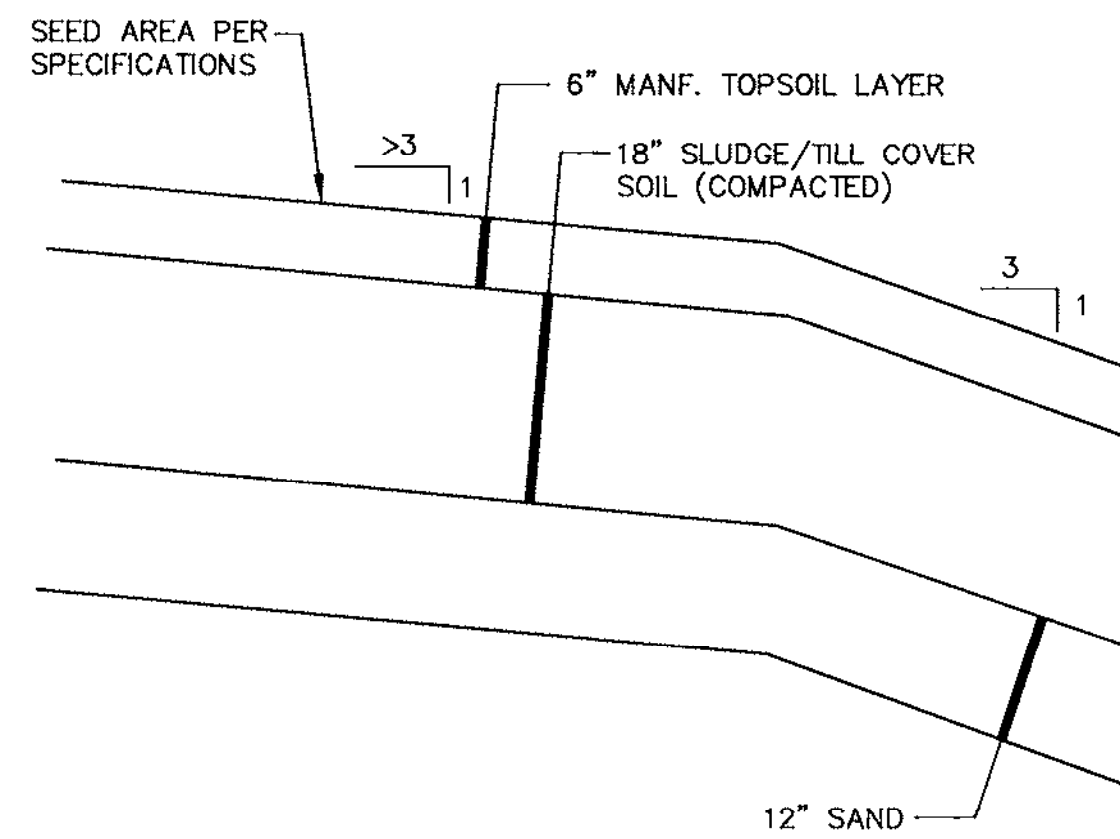
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FILE NO. 2-092-7082
LIC. NO.

YB-26164
SHEET 1 OF 3

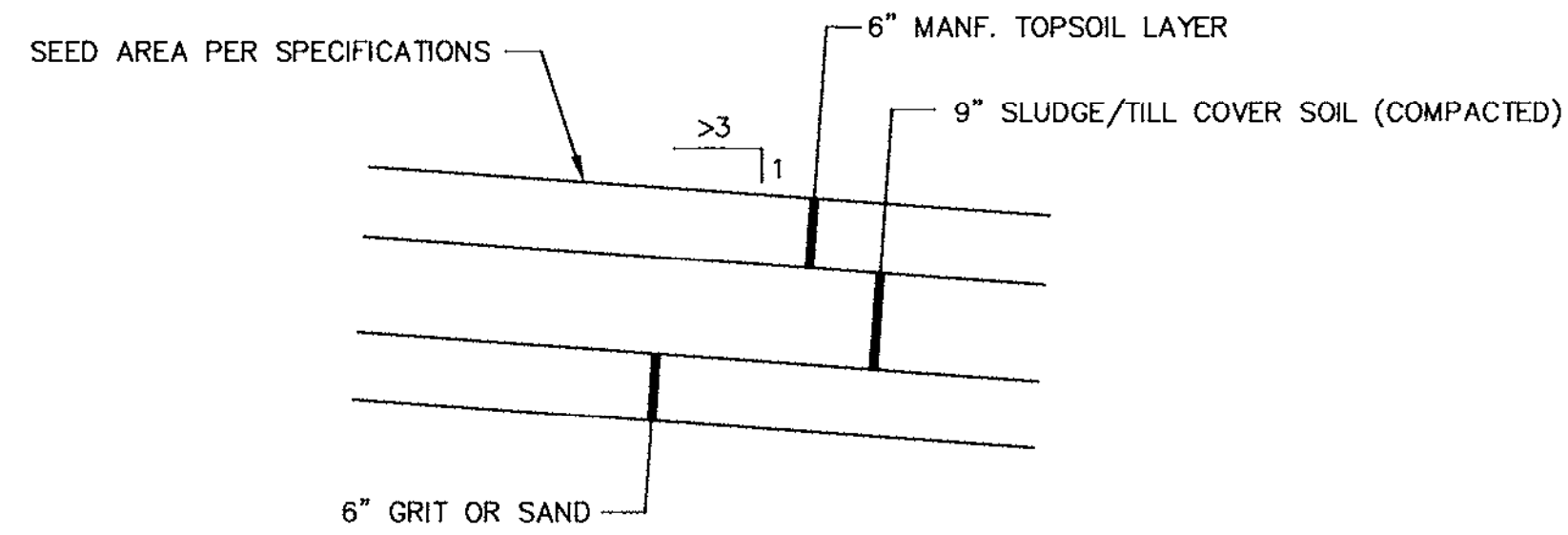
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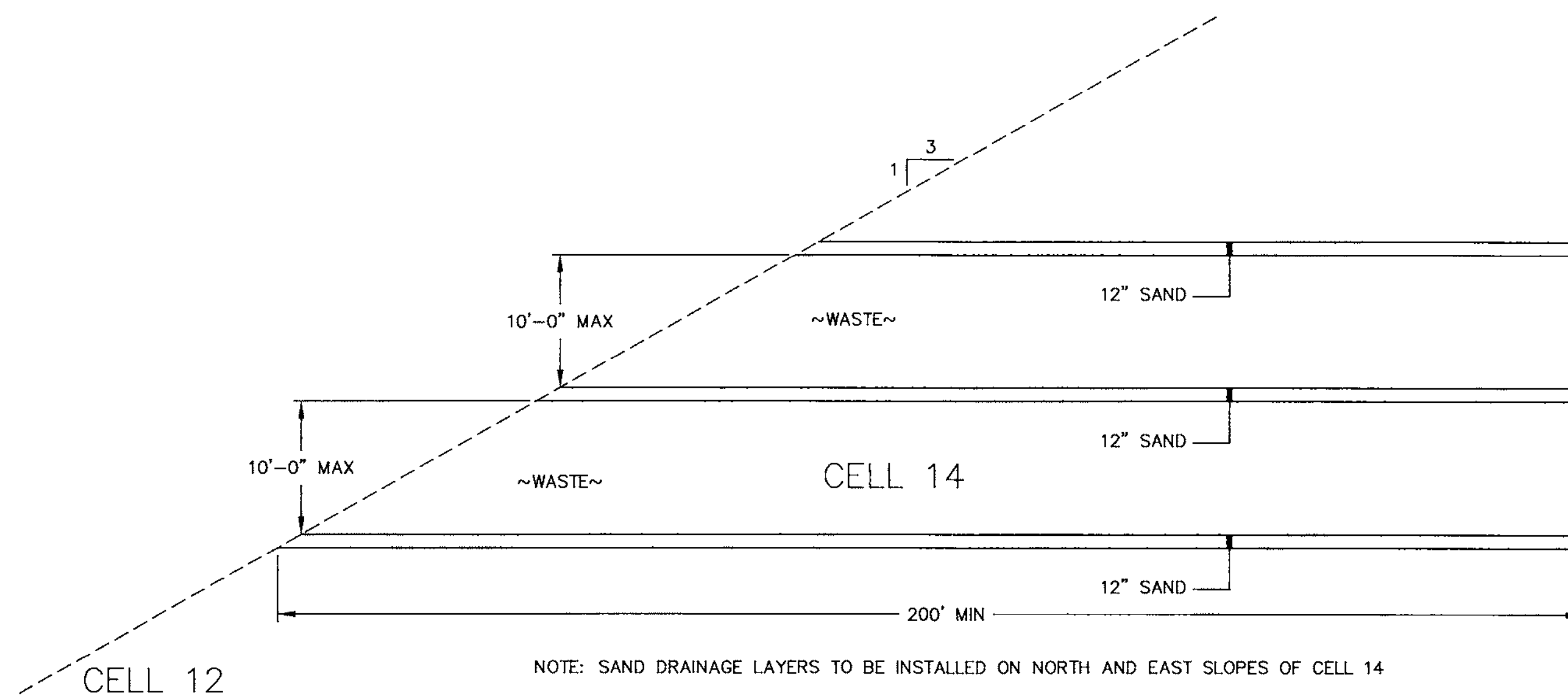
OPERATIONAL/FINAL COVER INTERFACE (5)
NTS YB-26162



FINAL COVER (6)
NTS YB-26162

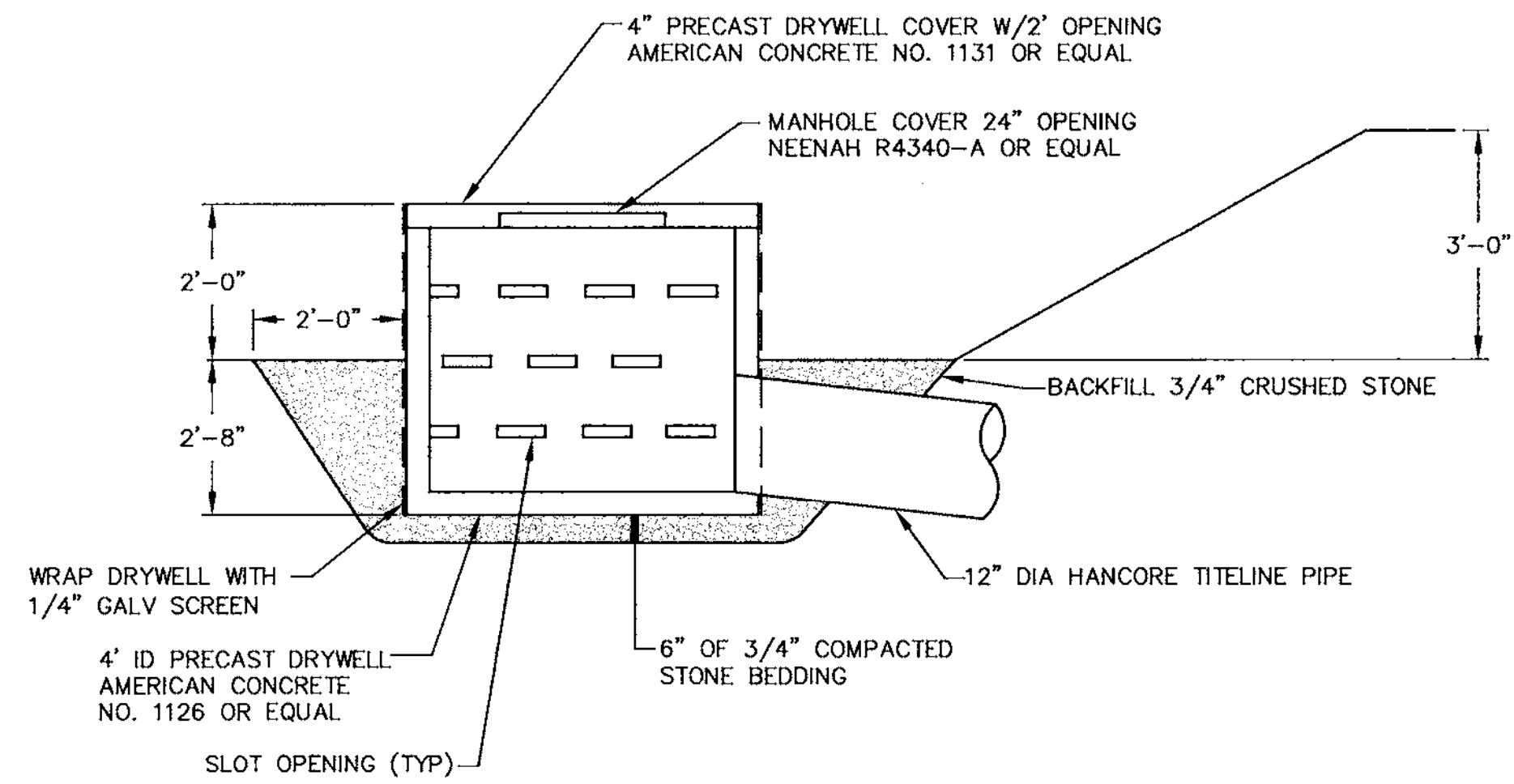


INTERMEDIATE COVER (7)
NTS YB-26162

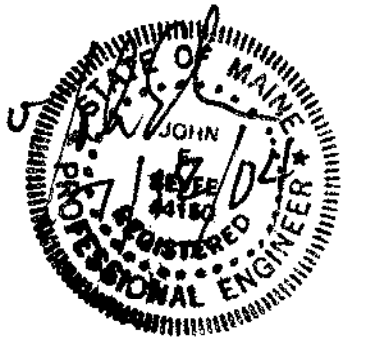


NOTE: SAND DRAINAGE LAYERS TO BE INSTALLED ON NORTH AND EAST SLOPES OF CELL 14

SLOPE STABILIZING DRAINAGE SYSTEM (10)
NTS YB-26166



DRAINAGE MANHOLE
NTS



REV.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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5																		
4																		
3																		
2				7/12/04	C	ISSUED FOR CONSTRUCTION												
1				6/15/04	P	SUBMITTED TO CLIENT	GHC											

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

ISSUE CODE:
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE - NONE

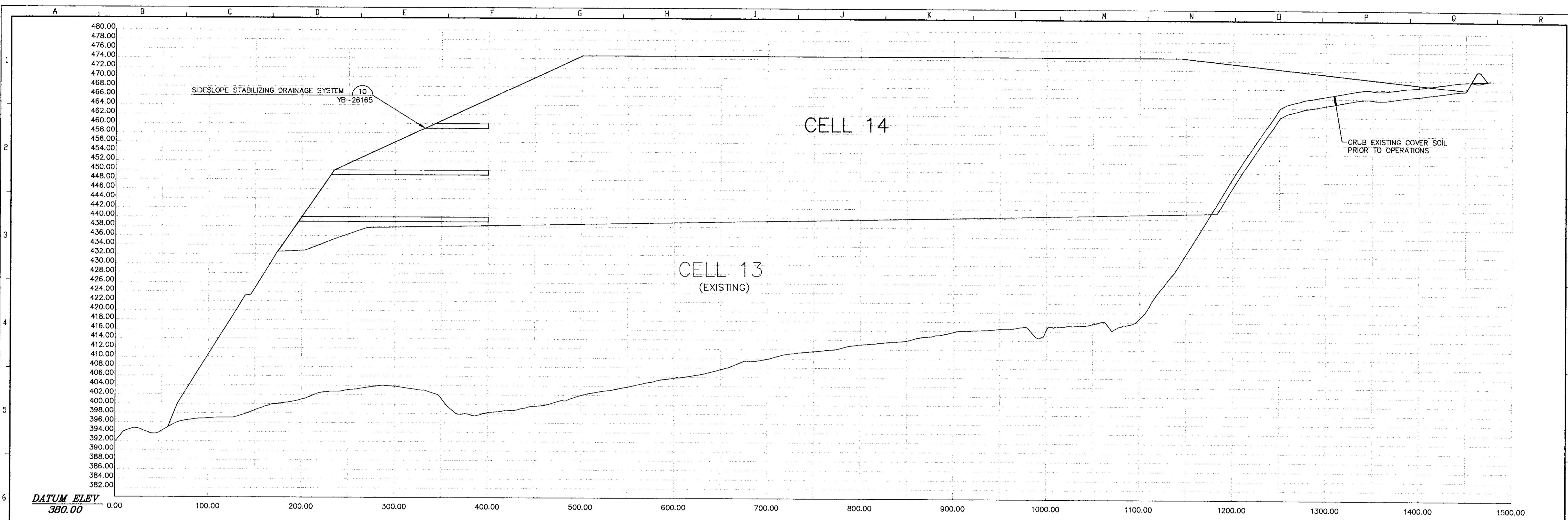
EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-092-7082
LIC. NO. _____

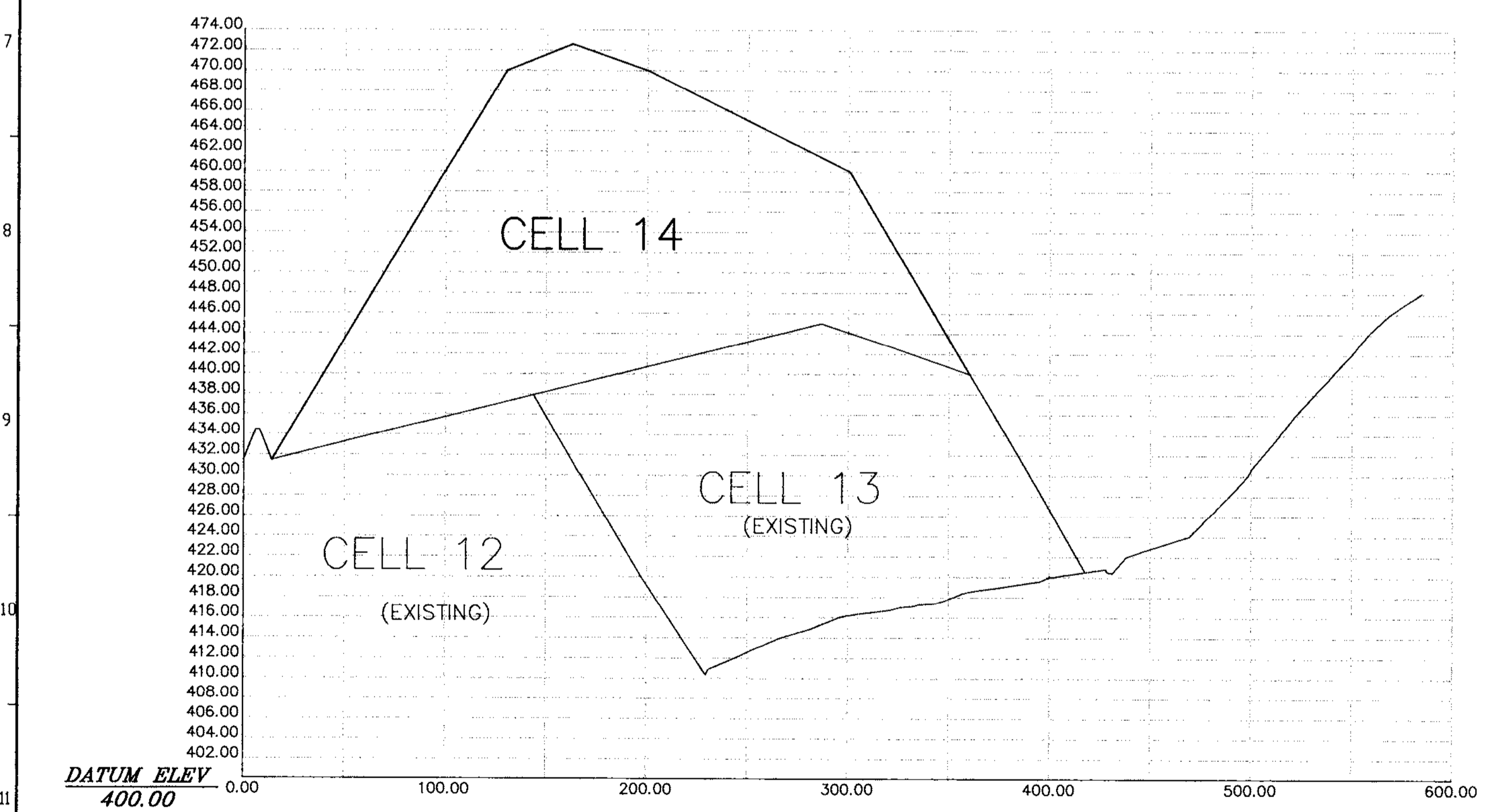
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SHEET 2 OF 3

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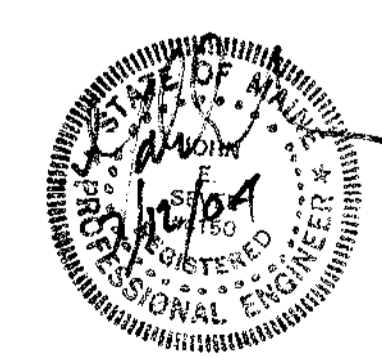
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SECTION 8
YB-26163



SECTION 9
YB-26163



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	SUBMITTED TO CLIENT	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
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3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	7/12/04	C	-	ISSUED FOR CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	6/15/04	P	-	SUBMITTED TO CLIENT	-	-	-	-	-	-	-	-	-	-	-	-	-

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road, P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

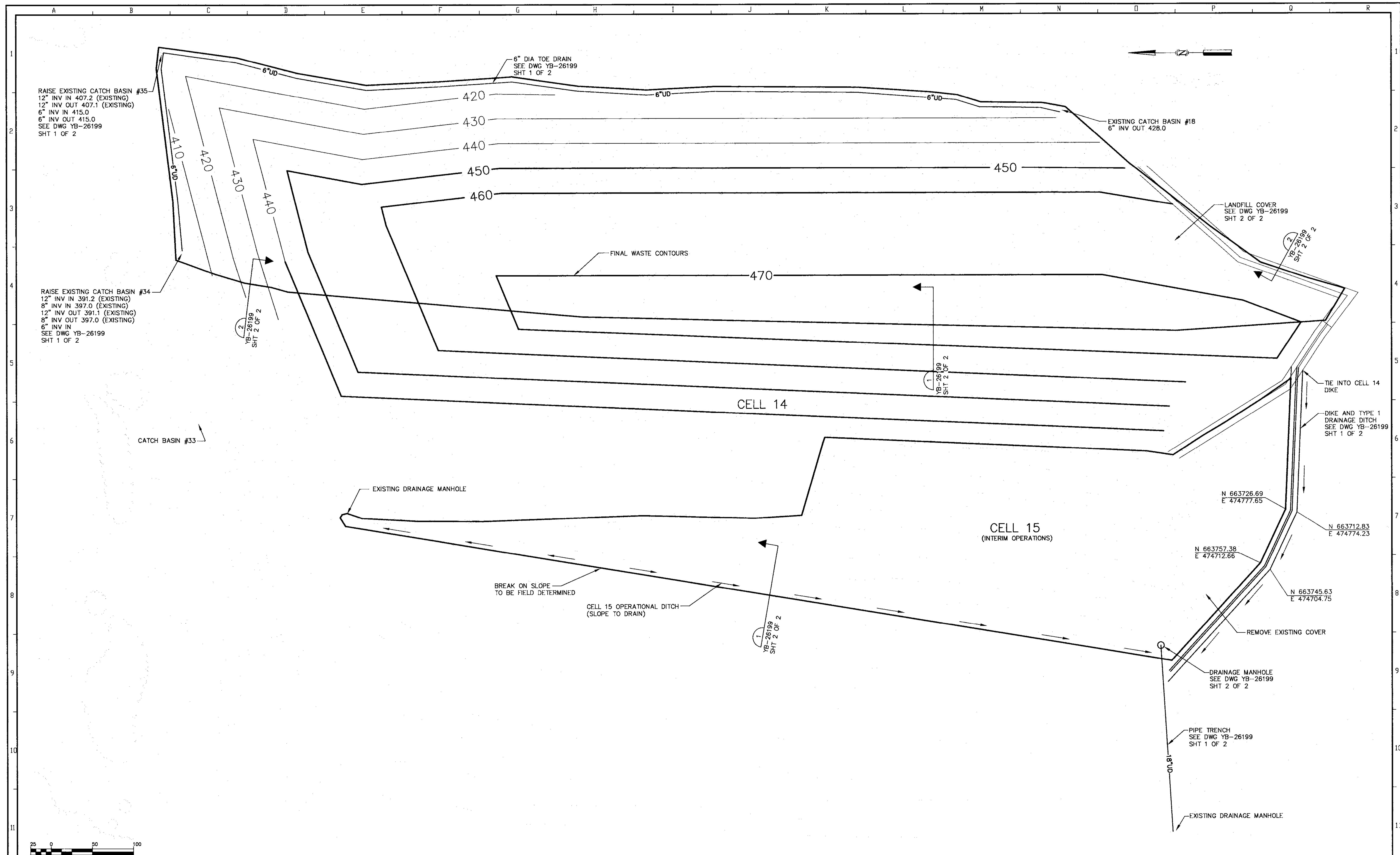
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-092-7082
LIC. NO. _____

YB-26166
SHEET 3 OF 3



RAISE EXISTING CATCH BASIN #35
 12" INV IN 407.2 (EXISTING)
 12" INV OUT 407.1 (EXISTING)
 6" INV IN 415.0
 6" INV OUT 415.0
 SEE DWG YB-26199
 SHT 1 OF 2

RAISE EXISTING CATCH BASIN #34
 12" INV IN 391.2 (EXISTING)
 8" INV IN 397.0 (EXISTING)
 12" INV OUT 391.1 (EXISTING)
 8" INV OUT 397.0 (EXISTING)
 6" INV IN
 SEE DWG YB-26199
 SHT 1 OF 2

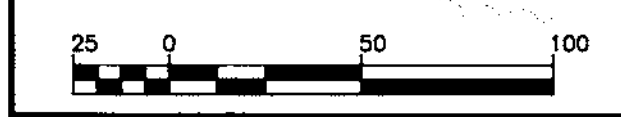
2
 YB-26199
 SHT 2 OF 2

1
 YB-26199
 SHT 2 OF 2

2
 YB-26199
 SHT 2 OF 2

1
 YB-26199
 SHT 2 OF 2

1
 YB-26199
 SHT 1 OF 2



REV.	DATE	DESCRIPTION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	2/12/07	UPDATED PER MEDEP COMMENTS												
2	10/6/06	SUBMITTED TO MEDEP												
1	8/24/06	SUBMITTED TO CLIENT												

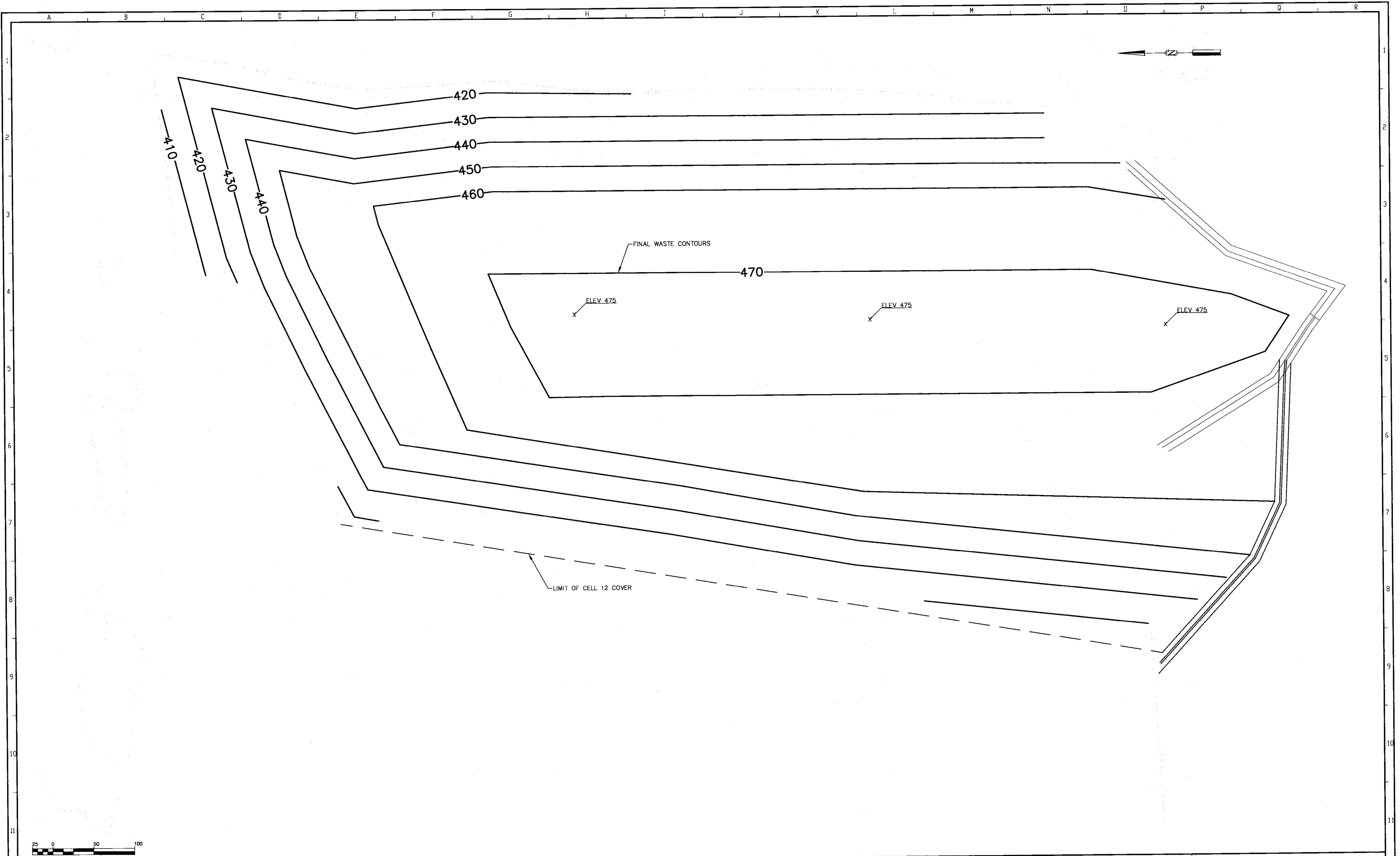
SME
 Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 83A
 Cumberland Center, ME 04021
 JOB NO. 06116

DRN	PAF	7/18/06
CHKD	GHC	8/8/06
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE	AS SHOWN	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: YB-26197 B0

EAST OPERATION
DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
SITE DEVELOPMENT PLAN
 JOB NO. _____
 FILE NO. _____
 LDC NO. _____
YB-26197

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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	2/12/07	P	UPDATED PER MEDEP COMMENTS	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	10/16/06	P	SUBMITTED TO MEDEP	GHC	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	8/24/06	P	SUBMITTED TO CLIENT	RBC	-	-	-	-	-	-	-	-	-	-	-

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021

JOB NO. 06116

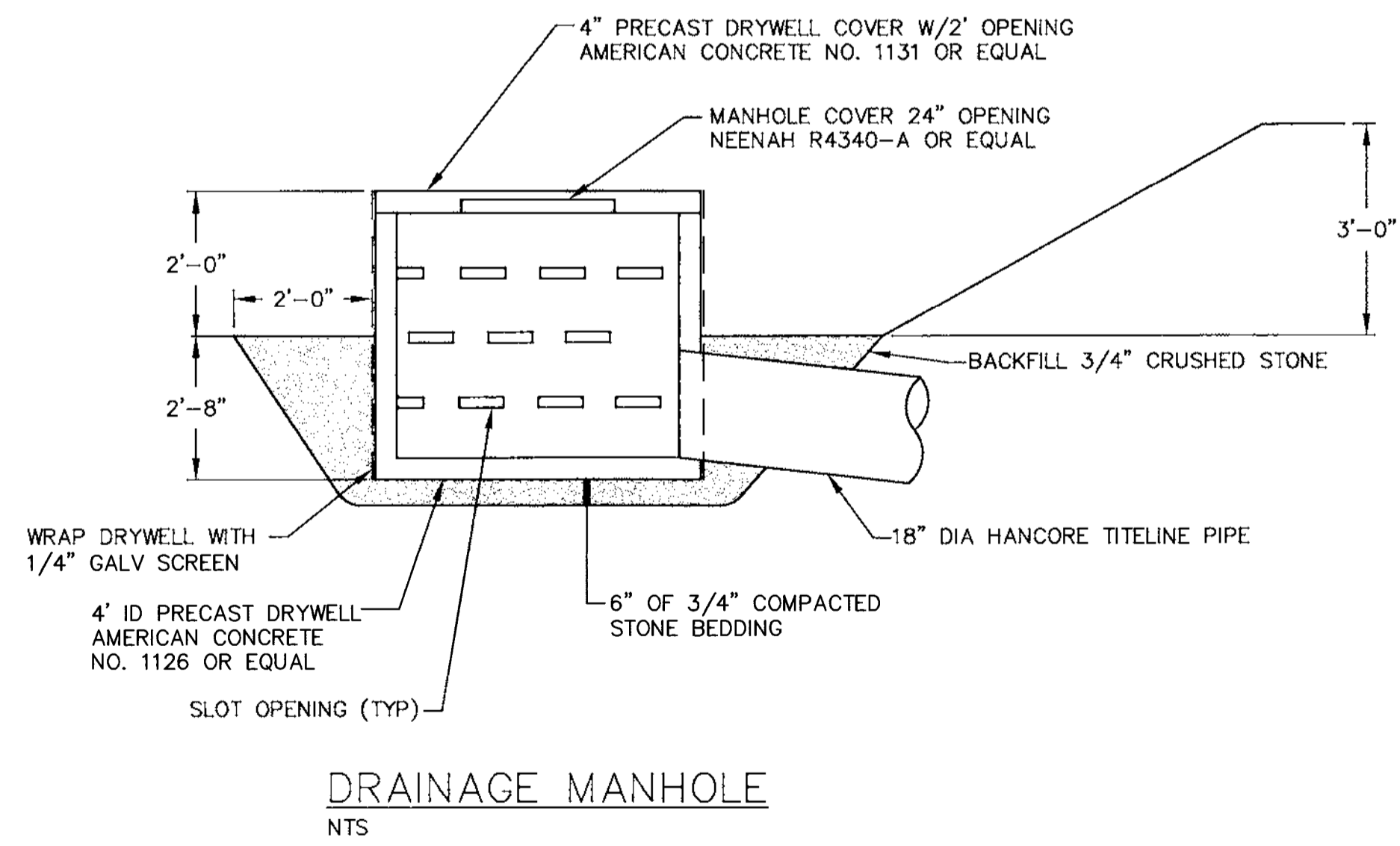
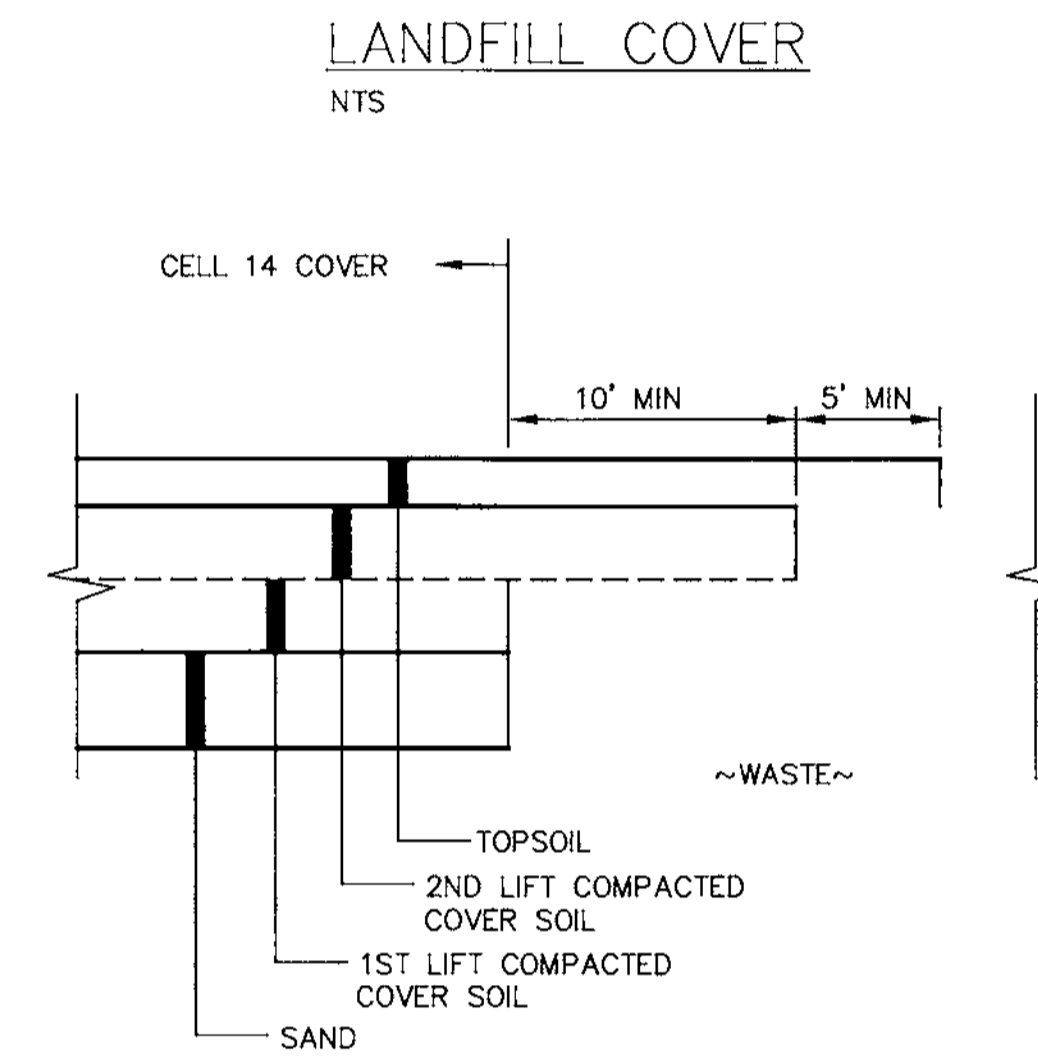
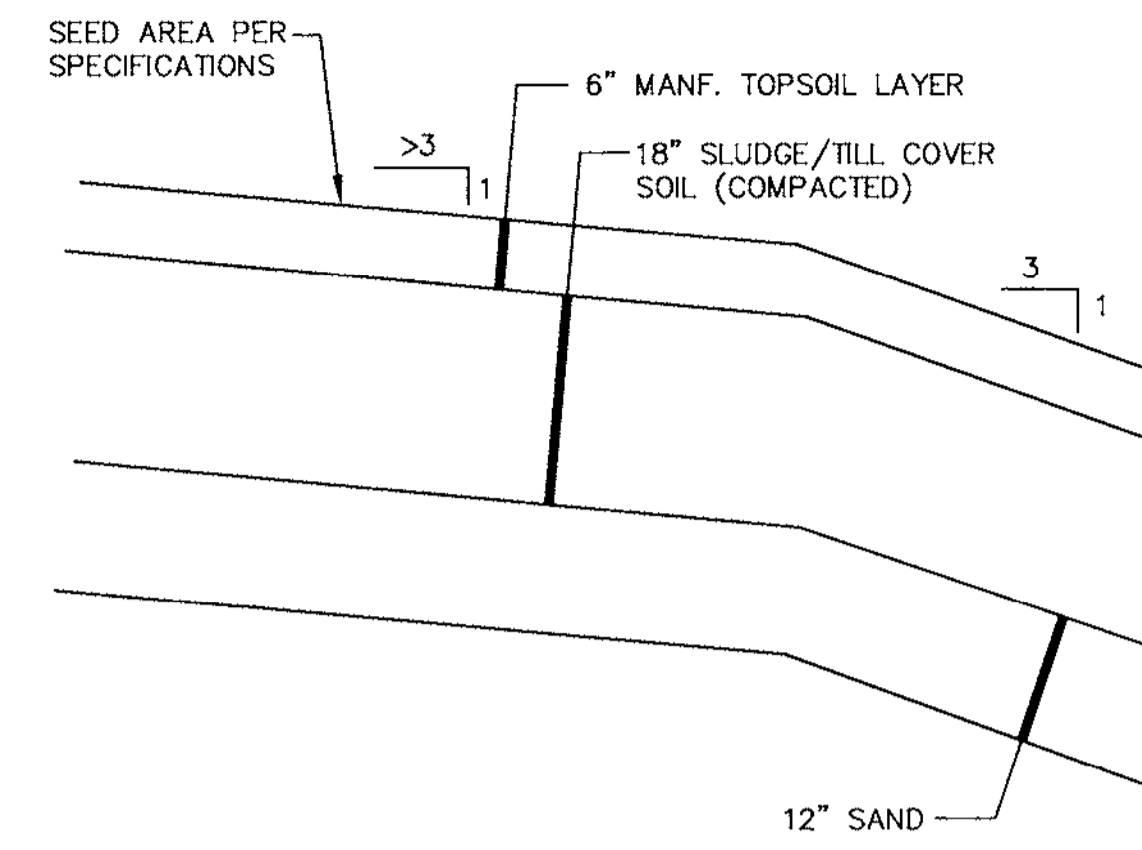
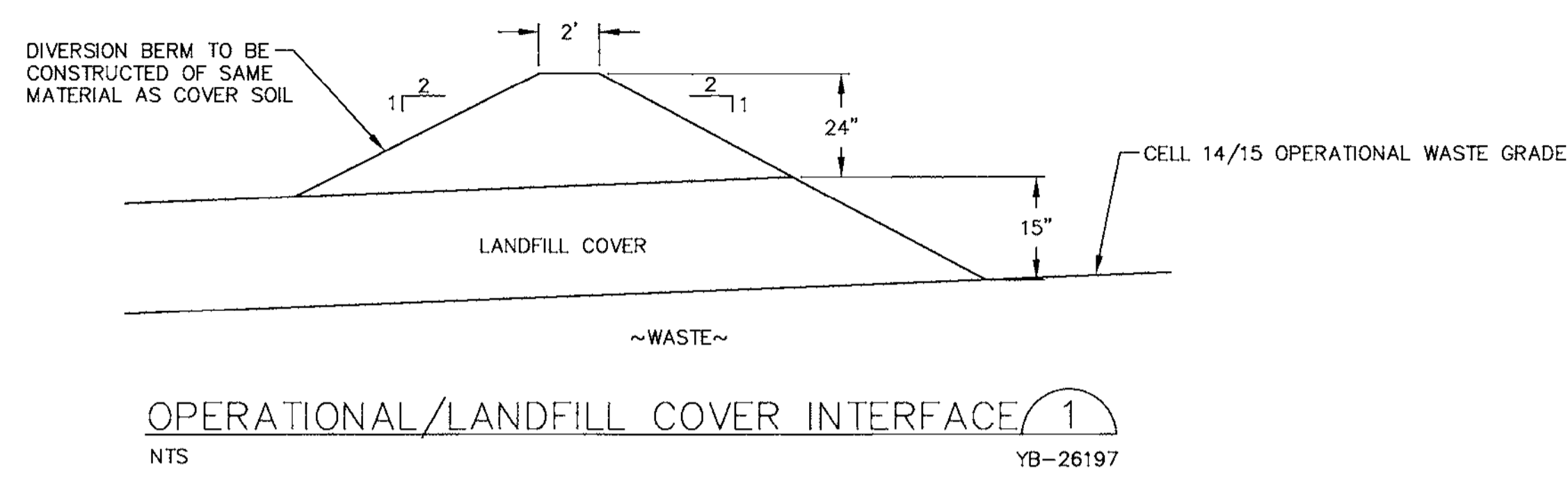
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

CAD FILE: YB-26198 B0

EAST OPERATION
DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
CELL 15 OPERATIONAL GRADING PLAN

JOB NO. _____
 FILE NO. _____
 LDC. NO. _____

YB-26198



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB
6	-																	
5	-																	
4	-																	
3	-																	
2	-			2/12/07	P	UPDATED PER MEDEP COMMENTS												
1	-			10/6/06	P	SUBMITTED TO MEDEP												
1	-			8/24/06	P	SUBMITTED TO CLIENT												

SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 85A
 Cumberland Center, ME 04021
 JOB NO. 04011.04

DRN	DRD	8/11/06
CHKD	GHC	8/11/06
APPVD	-	-
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE
 CAD FILE: YB-26199 B1

EAST OPERATION
DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
SECTIONS & DETAILS
YB-26199
 SHEET 2 OF 2

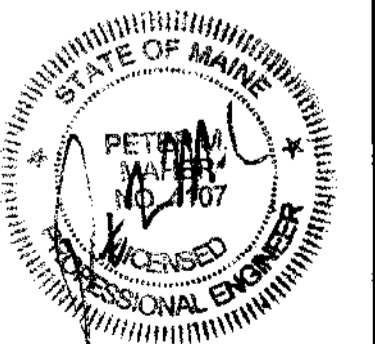
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KATAHDIN PAPER COMPANY, LLC EAST MILLINOCKET, MAINE DOLBY III LANDFILL CELL 16 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	
2	SYMBOLS & ABBREVIATIONS	C-100
3	EXISTING CONDITIONS PLAN	C-101
4	SITE DEVELOPMENT PLAN	C-102
5	OPERATIONAL GRADING PLAN	C-103
6	SECTIONS & DETAILS (SHEET 1 OF 1)	C-300

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CHKD	APPVD	JOB	JOB NO. 08035.05	
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2																				
3																				
4																				
5																				
6																				

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

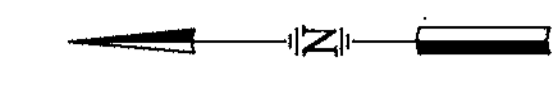
DIRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: COVERSHT.DWG

EAST OPERATION		
DOLBY III LANDFILL CELL 16 CONSTRUCTION COVER SHEET		
JOB NO.	FILE NO.	LOC. NO.

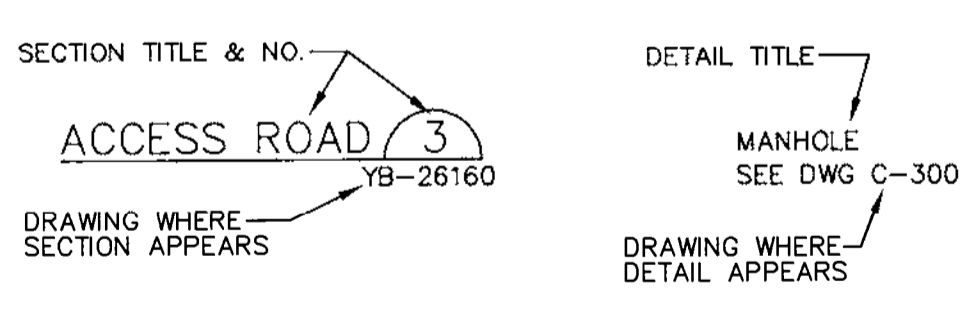
SYMBOLS



EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		NORTH ARROW (TRUE)			DRAINAGE COURSE (WITH DIRECTION)
		NORTH ARROW (MAGNETIC)			EDGE OF WATER
		NORTH ARROW (PLAN NORTH)			WATER ELEVATION (GROUND OR SURFACE)
		CONTOUR LINES			FENCE LINE (WOOD)
		SPOT ELEVATION (INVERT ELEVATION)			FENCE LINE (WIRE)
		EXISTING GROUND			STONE WALL
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			RETAINING WALL
		PROPERTY LINE OR R.O.W.			GUARD RAIL
		PROPERTY LINE W/ BEARING AND DISTANCE			BUILDING AND STRUCTURES
		CONSTRUCTION BASELINE			SLOPE RATIO (HORIZONTAL TO VERTICAL)
		BOUNDARY LINE (State, County, Municipality)			SLOPES (WITH SLOPE RATIO)
		SURVEY MONUMENT			EDGE OF ROAD
		SURVEY CONTROL			CUT OR FILL LINE
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE			BITUMINOUS PAVEMENT
		WOODS OR BRUSH LINE			CONCRETE
		INDIVIDUAL TREE			TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
		MAPPED WETLAND			TEST PIT AND NUMBER
		GAS VENT			SURFACE WATER SAMPLE LOCATION
		GAS VENT (CAPPED)			GAS EXTRACTION WELL
		CLEAN OUT STRUCTURE			MANHOLE
		CULVERT			CATCH BASIN
		RAILROAD			WATER OR GAS VALVE
		SLOPE INCLINOMETER			HYDRANT
		VIBRATING WIRE SETTLEMENT CELL			AIR RELEASE VALVE
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT			SURGE RELEASE VALVE
		VERTICAL DISPLACEMENT MONUMENT			UTILITY POLE
		LIQUID SETTLEMENT GAGE			LIGHT POLE

ACOMP ASPHALT COATED CMP	D DEGREE OF CURVE	HDPE HIGH DENSITY POLYETHYLENE	PERF PERFORATED
ACP ASBESTOS CEMENT PIPE	DBL DOUBLE	HORIZ HORIZONTAL	POWER POLE
AC ACRE	DEG OR DEGREE	HP HORSEPOWER	PP POUNDS PER SQUARE INCH
AGG AGGREGATE	DEPT DEPARTMENT	HYD HYDRANT	PVC POLYVINYL CHLORIDE
ALUM ALUMINUM	DI DIA OR DIAMETER	ID IN OR INCHES	PVMT PAVEMENT
APPD APPROVED	DM DIMENSION	INVERT INVERT ELEVATION	QTY QUANTITY
APPROX APPROXIMATE	DIST DISTANCE	INV INVERT	ROP REINFORCED CONCRETE PIPE
ARMH AIR RELEASE MANHOLE	DN DOWN	INV EL INVERT ELEVATION	ROW RIGHT OF WAY
ASB ASBESTOS	DR DRAIN	LC LEACHATE COLLECTION	RAD RADIUS
ASP ASPHALT	DWG DRAWING	LD LEAK DETECTION	REQD REQUIRED
AUTO AUTOMATIC	EA EACH	LF LINEAR FEET	RT RIGHT
AUX AUXILIARY	EG EXISTING GROUND OR GRADE	LOC LOCATION	RTE ROUTE
AVE AVENUE	ELEC ELECTRIC	LT LEACHATE TRANSPORT	S SLOPE
AZ AZIMUTH	EL ELEVATION	ELB ELBOW	SCH SCHEDULE
BCCMP BITUMINOUS COATED CMP	EOP EDGE OF PAVEMENT	MH MANHOLE	SF SQUARE FEET
BM BENCH MARK	EQU EQUIPMENT	MJ MECHANICAL JOINT	SHT SHEET
BIT BITUMINOUS	EST ESTIMATED	MATL MATERIAL	SMH SANITARY MANHOLE
BLDG BUILDING	EXC EXCAVATE	MAX MAXIMUM	ST STREET
BOT BOTTOM	EXIST EXISTING	MFR MANUFACTURE	STA STATION
BRG BEARING	FG FINISH GRADE	MIN MINIMUM	SY SQUARE YARD
BY BALL VALVE	FBRGL FIBERGLASS	MISC MISCELLANEOUS	TAN TANGENT
CB CATCH BASIN	FDN FOUNDATION	MON MONUMENT	TDB TOTAL DYNAMIC HEAD
CBN CENTER	FLEX FLEXIBLE	NITC NOT IN THIS CONTRACT	TEMP TEMPORARY
CEM LIN CEMENT LINED	FLG FLANGE	NTS NOT TO SCALE	TYP TYPICAL
CMP CORRUGATED METAL PIPE	FLR FLOOR	N/F NOW OR FORMERLY	UD UNDERDRAIN
CO CLEAN OUT	FPS FEET PER SECOND	NO OR # NO OR #	V VOLTS
CF CUBIC FEET	FT OR FEET	OC ON CENTER	VA VALVE ANCHORING TEE
CFS CUBIC FEET PER SECOND	FTG FOOTING	OD OUTSIDE DIAMETER	VERT VERTICAL
C CAST IRON	GA GAUGE	PC POINT OF CURVE	WG WATER GATE
CL CLASS	GAL GALLON	PD PERIMETER DRAIN	WTH WITH
CONC CONCRETE	GALV GALVANIZED	PI POINT OF INTERSECTION	W/O WITHOUT
CONST CONSTRUCTION	GPD GALLONS PER DAY	PIV POST INDICATOR VALVE	YD YARD
CONTR CONTRACTOR	GPM GALLONS PER MINUTE	PT POINT OF TANGENT	
CS CURB STOP			
CTR CENTER			
CU COPPER			
CY CUBIC YARD			

VIEW MARKERS & IDENTIFICATION



GENERAL NOTES:
 THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:
 COMMON BORROW - MDOT SPECIFICATION 703.18
 SCREENED TILL - SHALL BE EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. SCREENED TILL SHALL BE GLACIAL TILL FREE OF FROZEN MATERIALS, PERISHABLE RUBBISH, PEAT, ORGANIC MATTER, LARGE ROCK FRAGMENTS, OR OTHER UNSUITABLE MATERIAL AND SHALL BE SCREENED TO LESS THAN 4" IN DIAMETER WITH GREATER THAN 20 PERCENT FINES. THE FINAL SURFACE OF THE SCREENED TILL SHALL BE FREE FROM PROTRUDING ROCKS GREATER THAN 3" IN DIAMETER.

SAND - THE DRAINAGE SAND SHALL BE AGGREGATE FREE OF ORGANIC MATTER, DEBRIS, AND ROCK FRAGMENTS LARGER THAN 1 INCH IN DIAMETER. SAND SHALL MEET A GRADATION AND HYDRAULIC CONDUCTIVITY REQUIREMENT AS FOLLOWS:

a. SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE
1/4"	60 - 100
#40	0 - 50
#200	0 - 7

b. REMOLDED HYDRAULIC CONDUCTIVITY (ASTM D 5084-90) MAXIMUM $\geq 1 \times 10^{-3}$ cm/sec
 3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

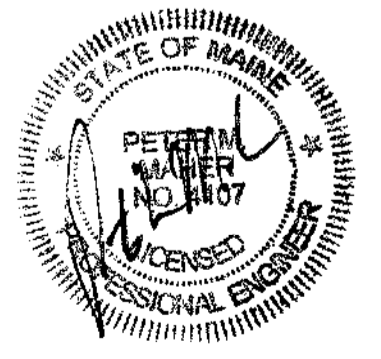
6" PERFORATED HDPE UNDERDRAIN PIPE - SDR 21 - HDPE PIPE JOINTS SHALL BE BUTT-FUSION WELDED OR ELECTROFUSION COUPLED.
 12" UNDERDRAIN/LEACHATE TRANSPORT PIPE - SOLID HANCOR TITELINE

SEED AND FERTILIZER:
 AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT		
SEED:	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT
 MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE
 INSTALLATION - MDOT 618.05 AND MDOT 618.06
 RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.



SME
Sevee & Maher Engineers, Inc.
 4 Blanchard Road P.O. Box 83A
 Cumberland Center, ME 04021

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE NONE		

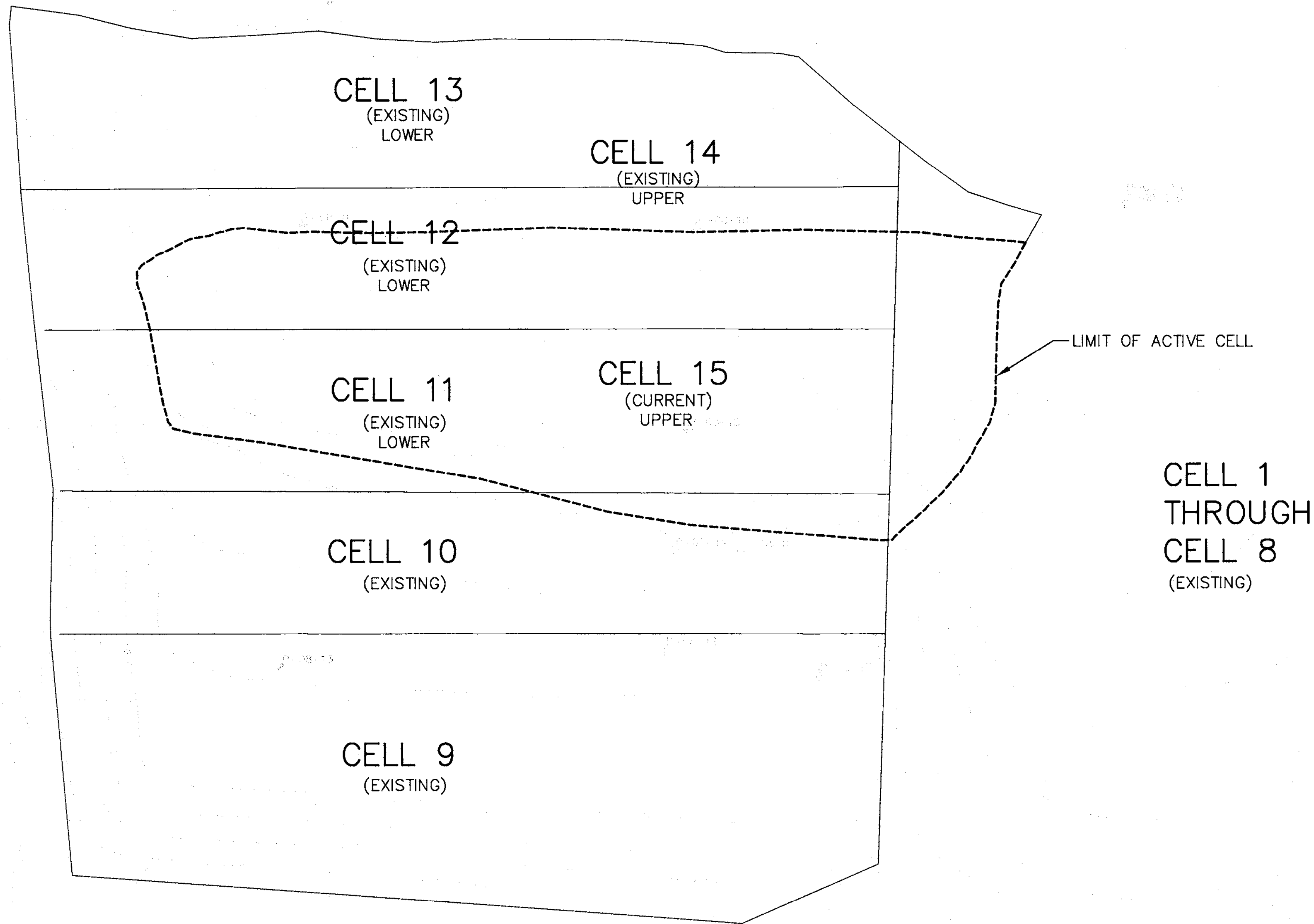
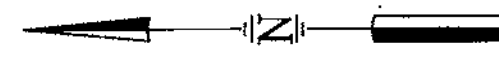
KATAHDIN PAPER COMPANY LLC.
 EAST MILLINOCKET, MAINE

EAST OPERATION
 DOLBY III LANDFILL
 CELL 16 CONSTRUCTION
 SYMBOLS AND ABBREVIATIONS

CAD FILE: SYMSHT

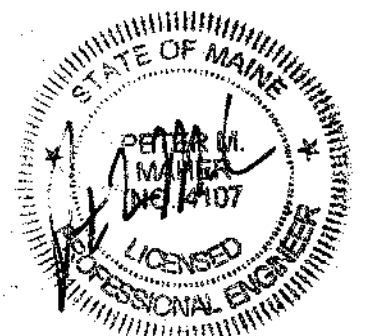
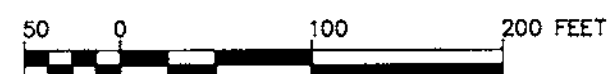
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 FILE NO. _____
 LOC. NO. _____
C-100

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4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	P	7/23/08	SUBMITTED TO MEDEP															



GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/14/08.
2. GROUND CONTROL PROVIDED BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE.
3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.
5. KATAHDIN PAPER COMPANY IS ACTIVELY FILLING CELL 15. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.



REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	
1	-	-	P	7/23/08	-	SUBMITTED TO MEDEP													

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P	- Preliminary	
B	- Bids	
C	- Construction	
ASB	- As Built	
SCALE AS SHOWN		

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

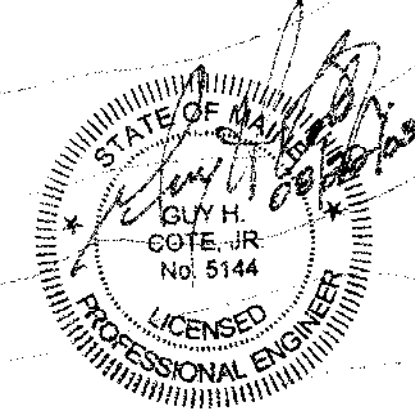
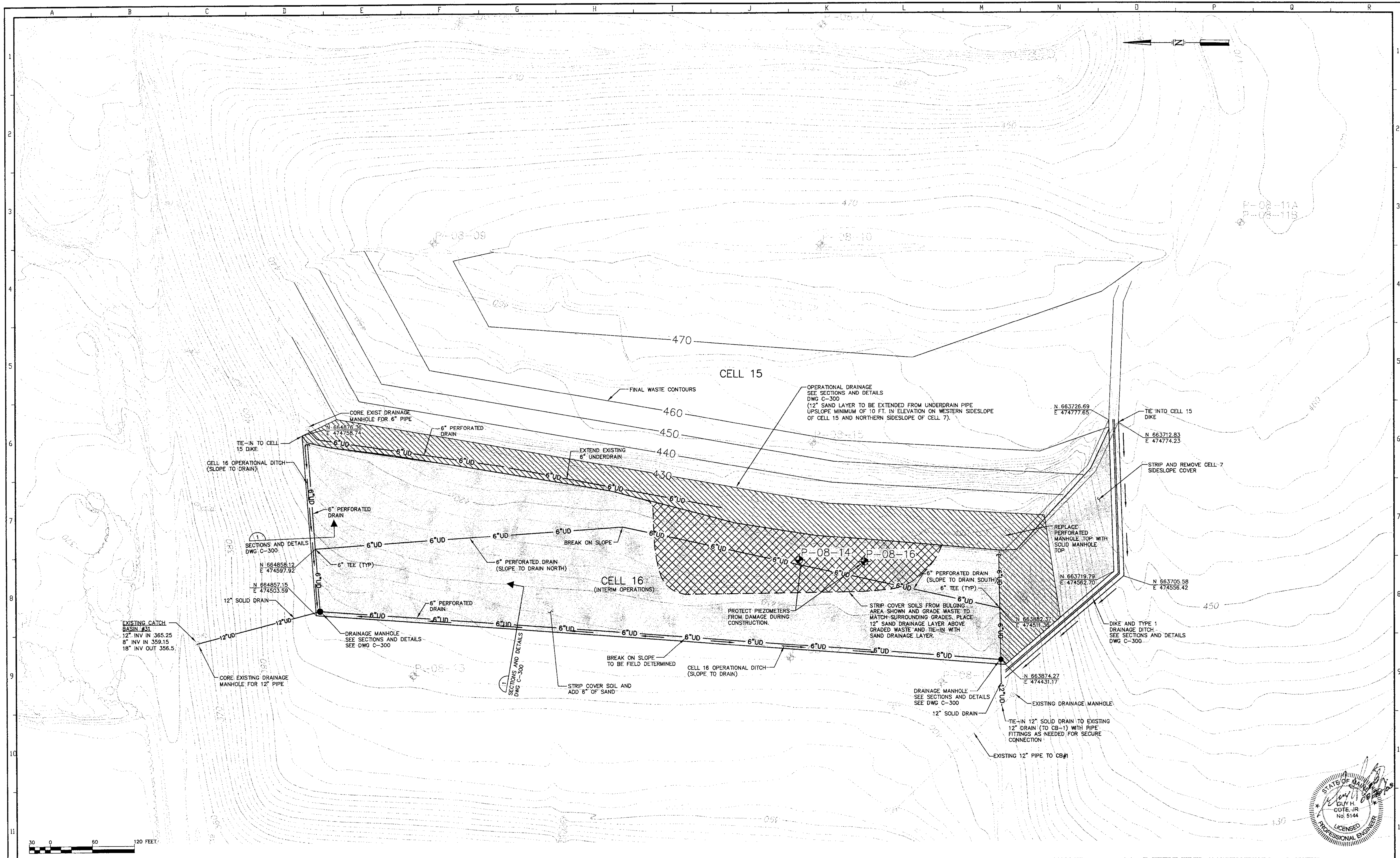
EAST OPERATION
DOLBY III LANDFILL
CELL 16 CONSTRUCTION
EXISTING CONDITIONS PLAN

CAD FILE: CELL15-16Site

JOB NO. _____
FILE NO. _____
LOC. NO. _____

C-101

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4	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	P	8/22/08	-	REVISED PER MEDEP COMMENTS	-	-	-	-	-	-	-
2	-	-	P	7/25/08	-	RESUBMITTED TO MEDEP	KCC	GHC	-	-	-	-	-
1	-	-	P	7/23/08	-	SUBMITTED TO MEDEP	KCC	GHC	-	-	-	-	-

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL15-16Site

EAST OPERATION

DOLBY III LANDFILL
CELL 16 CONSTRUCTION
SITE DEVELOPMENT PLAN

JOB NO. _____
FILE NO. _____
LOC. NO. _____

C-102

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APPENDIX C
INSPECTION LOGS

**WEEKLY INSPECTION REPORT
DOLBY LANDFILL**

Date: _____

Time: _____

Weather: _____

Inspected By: _____

Item	Condition	
	Ok	Not Ok
DOLBY II LANDFILL		
LEACHATE HOLDING POND		
Level of Pond (low, medium, or high)		
Outlet Structure Accessible		
DOLBY III LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Poor Drainage, Ponding		
PERIMETER DRAIN AND CATCH BASINS		
Flow Conditions (slow, medium or fast)		
Catch Basins Intact and Serviceable		
ACTIVE CELL		
Containment Dikes Intact and Functioning		
Cell Access Road Condition		
Leachate Collection Structures Intact and Functioning		
LEACHATE COLLECTION POND		
Liner		
Pond Level		
LEACHATE PUMP STATION		
Flow Measurement (gallons)		
LEAK DETECTION SYSTEM		
Leachate level		
Flow Measurement (gallons)		
LEACHATE PIPELINE		
Manholes Intact and Serviceable		
SITE ROADWAYS		
Check Roadway Ditches for Signs of Erosion		
Silt Fence Properly Installed (if applicable)		

COMMENTS:

ACTION

TAKEN:

**QUARTERLY INSPECTION REPORT
DOLBY LANDFILL**

Date: _____

Time: _____

Weather: _____

Inspected By: _____

Item	Condition	
	Ok	Not Ok
DOLBY I LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Poor Drainage, Ponding		
Excessive Settling, Crack Development		
Grass Die-off-Failure to Thrive		
Mowing Required		
Germination of Trees, Deep Root Vegetation		
Animal Burrowing		
COLLECTION PONDS		
West End Pond Level (low, medium, or high)		
East End Pond Level (low, medium, or high)		
Vegetative Build-up in Ponds (Cat Tails)		
ACCESS GATES		
Gates Secured and Working Properly (Facility Front and Rear Main Gates)		
Roads Accessible by Vehicle		
DOLBY II LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Poor Drainage, Ponding		
Excessive Settling, Crack Development		
Grass Die-off-Failure to Thrive		
Mowing Required		
Germination of Trees, Deep Root Vegetation		
Animal Burrowing		
PERIMETER DRAIN CATCH BASINS		
Build-up Sediment in Catch Basins		
Flow Conditions (low, medium, or high)		
Catch Basins Intact and Serviceable		
LEACHATE HOLDING POND		
Iron Staining (wooded area east of pond)		
DOLBY III LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Excessive Settling, Crack Development		
Grass Die-off-Failure to Thrive		
Mowing Required		
Germination of Trees, Deep Root Vegetation		
Poor Drainage, Ponding		
Animal Burrowing		
Access Road Condition		
PERIMETER DRAIN AND CATCH BASINS		
Build-up of Sediment in Catch Basins		
Valves Functioning Properly (free turning)		

Item	Condition	
	Ok	Not OK
LEACHATE COLLECTION POND		
GEOMEMBRANE LINER		
Condition of Liner (rips, holes, torn seams)		
LEACHATE PUMP STATION		
Build-up Sediment in Wetwells		
Pumps Functioning Properly (amps, noises)		
Valves Functioning Properly (free turning)		
Flow Conditions (low, medium, or high)		
Properly Vented		
Electrical Panel Inspection (corrosion, etc.)		
Flow Meter Inspection – Flow meter not working		
LEAK DETECTION SYSTEM		
Pump functioning properly (amps, noises)		
Flow Conditions (low, medium, high)		
Flow Meter Inspection		
Control Panel Inspection		
UNDERDRAIN PUMPING SYSTEM		
Pump functioning properly		
Flow Conditions		
SITE SEDIMENTATION STRUCTURES		
NORTHWEST SEDIMENTATION BASIN		
Check Outlet Structure for Condition		
Water Level (low, medium, or high)		
WEST SEDIMENTATION BASIN		
Check Outlet Structure for Condition		
Water Level (low, medium, or high)		
SOUTHWEST SEDIMENTATION BASIN		
Check Outlet Structure for Condition		
Water Level (low, medium, or high)		
SITE ROADWAYS AND DRAINAGE		
Check Catch Basins for Build-up of Sediment		
Check Culverts for Blocked Drainage and/or damage		
Check Monitoring Wells for Visual Damage		
General condition of Perimeter Roadways		
LEACHATE PIPELINE		
Check Manhole Exterior Condition		
Check Transition Station Exterior Condition		
Check Aboveground Utility Line to the Transition Station		
General condition of Leachate Pipeline Access Road		

COMMENTS:

RECOMMENDED ACTIONS:

APPENDIX D

**ACTION LEAKAGE RATE/RESPONSE ACTION PLAN
FOR LEACHATE POND LINER**

ACTION LEAKAGE RATE/RESPONSE ACTION PLAN FOR LEACHATE POND LINER

Note to Reader: This plan is an update of the Action Leakage Rate/ Response Action Plan prepared for the Dolby leachate pond in 2006. The update did not change the calculations used for determining the action leakage rate. At the time of this plan in 2006, the leachate pond, as intended herein, had not been constructed. The narrative for this plan was updated to recognize that the leachate pond was subsequently constructed.

A leak detection system was included in the leachate pond construction to monitor the performance of the primary liner. The leak detection system consists of a drainage geocomposite layer below the primary 60-mil HDPE geomembrane. Beneath the leak detection system is a secondary 60-mil HDPE geomembrane overlying a geosynthetic clay liner (GCL), followed by a 12-inch-thick compacted clay layer. At the south end of the leak detection system is a 6-inch diameter SDR-17 HDPE perforated pipe buried in a 12-inch-thick layer of 3/4-inch drainage stone (i.e., a sump). Sample tubing is provided in the leak detection piping system so that the landfill operator can sample the contents of the sump. All water collected in the leak detection system drains to the leak detection sump. The leak detection sump is equipped with a 1/2-HP submersible pump, which is activated by a transducer system. The discharge line from the pump contains a flow meter for recording discharge from the leak detection layer. The pump discharges to the leachate pump station sump where it is pumped off site. The engineering drawings for the leachate pond are appended to the Post-Closure Monitoring and Maintenance Plan for Dolby Landfill.

Estimated Liner Leakage Rates. The amount of leakage through the primary liner depends on several factors, including the following:

- The number and size of holes or imperfections in the geomembrane liner;
- The head above the primary liner;
- The uniformity of contact between the geomembrane liner and underlying geocomposite; and
- The hydraulic conductivity of the material in contact with the primary liner.

Typically, two-hole or imperfections sizes are used in defining leakage rates through a geomembrane liner system. Small holes (i.e., $3 \times 10^{-6} \text{ m}^2$) roughly equal to the thickness of the geomembrane should be considered representative of actual field conditions and more typical of operating conditions. A larger hole (i.e., $1 \times 10^{-4} \text{ m}^2$) should be used to size the hydraulic capacity of the leak detection layer (ref. Cell and Liner System Detailed Design (Design Examples), J.P. Giroud/Geosyntec Consultants, 1992).

For the leachate pond, Sevee & Maher Engineers, Inc. (SME) calculated leakage rates through the primary liner using the larger hole size. The frequency of imperfections in a geomembrane is associated with the degree of QA/QC associated with the manufacture and installation of the membrane. Because a detailed

geomembrane QA/QC program was developed for the project (ref. "Contract Documents and Construction Specifications for Leachate Pond Redevelopment, Dolby III Landfill", SME, Revised May 2006), a minimal number of defects are anticipated. Giroud et al. suggests that for liner installation with good QA/QC, between one and three manufacture holes per acre and one installation defect per acre can be expected. SME calculated total leakage rates through the primary liner for one hole per acre (with a size of $1 \times 10^{-4} \text{ m}^2$) to predict the hydraulic capacity of the leak detection system.

The second variable affecting flow through the primary geomembrane liner is hydraulic head on the liner. SME used a hydraulic head for a pond level at a normal operating depth of two feet to determine the leak detection time.

The last two variables that affect leakage rate through the primary liner are the hydraulic conductivity of the materials in contact with the liner and the contact conditions. Calculated flow estimates were based on the proposed liner design. For primary liner, which will be underlain by a drainage geocomposite and secondary liner, flow rates were estimated based on analytical models developed by Giroud and Bonaparte (1989b) for flow through composite liners. Giroud and Bonaparte defined two conditions corresponding to the contact made between the geomembrane and underlying material that affect the flow through the geomembrane liner. A good contact is defined by Bonaparte et al. as a membrane installed with few wrinkles on top of a low hydraulic conductivity soil layer. Poor contact is defined as a geomembrane installed with a certain number of wrinkles and/or placed on a low-hydraulic conductivity soil layer that has not been well compacted and does not appear smooth. SME developed estimates of leakage through the primary geomembrane liner system for a single geomembrane underlain by a high permeability material (drainage geocomposite). Based on these variables, leakage rates through the primary geomembrane liner systems were calculated for the worst case. SME also evaluated hydraulic capacities of the leak detection system to handle the calculated flows and the time of travel for these flows in the leak detection systems. For the conditions described above, the calculations demonstrate that the leak detection system has the capacity to both handle worst case design flows and detect leaks in an approximate 20-hour period. This exceeds the regulatory requirement of detecting leaks from a leachate pond liner system within 24-hours.

An action leakage rate (ALR) of 20 gallons per acre per day (gpad) was established for the leachate pond. This is the standard action leakage rate value used by the U.S.EPA and the MEDEP. The ALR represents the minimum rate of leakage that will trigger interaction between the landfill owner and the MEDEP to determine the appropriate response action for the leakage.

Monitoring Frequency

The total flows will be obtained daily from a flow meter installed on the discharge lines for the leak detection system. Leak detection water quality samples will be collected during the regular water quality sampling rounds three times per year. The water quality samples of the leak detection sump will be collected using a peristaltic pump. The data will be incorporated into the submittals to the MEDEP.

Reporting Procedures

The landfill operator will submit a yearly report presenting all of the data collected during the preceding year and any recommended changes to the monitoring program, such as adjustments of the UAL values.

Response Actions

The landfill operator will record daily flow measurements from the leak detection discharge pipe and notify the MEDEP within 5 working days of obtaining four consecutive readings suggesting primary liner seepage is in exceedance of ALR. As weather conditions allow, the landfill operator will drain the leachate pond and visually inspect the liner and repair damaged areas within 15 days and no more than 30 days after notifying the MEDEP. If the visual inspection and subsequent repairs fail to reduce the seepage rate below the ALR, the landfill operator will consult with the MEDEP regarding other remedial measures.

The landfill operator will prepare a report summarizing the results of the inspection and repairs and submit it to the MEDEP for its review. The report will contain recommendations for continuation of the sampling program¹.

¹ The leak detection calculations were transmitted in a letter to MEDEP (Lou Pizzuti) dated May 17, 2006.

APPENDIX H

WASTE LOGS

**Millinocket
Truck hauling tally sheet for Dolby landfill**

YEAR 2021

Load Number	Truck Number	Empty weight	Load Weight	Material Weight	Tons of material	Yards	Date	Material	Driver Initials
1	15	28300	48660	20360	10.18	19.81	9/1/2021	Ash	
2	11	20780	33500	12720	6.36	12.37	9/1/2021	Ash	
3	10	21800	35080	13280	6.64	12.92	9/1/2021	Ash	
4	11	20780	33500	12720	6.36	12.37	9/1/2021	Ash	
5	10	21800	35080	13280	6.64	12.92	9/1/2021	Ash	
6	11	20780	33500	12720	6.36	12.37	9/1/2021	Ash	
7	15	28300	48660	20360	10.18	19.81	9/1/2021	Ash	
8	10	21800	35080	13280	6.64	12.92	9/1/2021	Ash	
9	11	20780	33500	12720	6.36	12.37	9/1/2021	Ash	
10				0	0	0.00		Ash	
11				0	0	0.00		Ash	
12				0	0	0.00		Ash	
13				0	0	0.00		Ash	
Total				131440	65.72	127.86			

Medway

Truck hauling tally sheet for Dolby landfill

YEAR 2021

Load Number	Truck Number	Empty weight	Load Weight	Material Weight	Tons of material	Yards	Date	Material	Driver Initials
1	7	28520	44720	16200	8.1	15.76	9/1/2021	Ash	
2	6	18900	31520	12620	6.31	12.28	9/1/2021	Ash	
3	6	18900	31520	12620	6.31	12.28	9/1/2021	Ash	
4	7	28520	44720	16200	8.1	15.76	9/1/2021	Ash	
5	7	28520	44720	16200	8.1	15.76	9/1/2021	Ash	
6	6	18900	31520	12620	6.31	12.28	9/1/2021	Ash	
7	6	18900	31520	12620	6.31	12.28	9/1/2021	Ash	
8	7	28520	44720	16200	8.1	15.76	9/1/2021	Ash	
9	7	28520	44720	16200	8.1	15.76	9/1/2021	Ash	
10	6	18900	31520	12620	6.31	12.28	9/1/2021	Ash	
11	7	28520	44720	16200	8.1	15.76	9/1/2021	Ash	
12				0	0	0.00		Ash	
13				0	0	0.00		Ash	
Total				160300	80.15	155.93			

APPENDIX I

SELF-AUDIT CHECKLIST

State of Maine, Bureau of General Services
Dolby III Landfill Compliance Self-Audit Checklist

Report Year: 2021

General License Information

- * Any new licenses or revisions issued to the facility during the year? Yes No
- If yes, was the new license listed in the submitted facilities annual report? Yes No
- List the new licenses: Minor Revision #S-000796-2D-AD-N for landfill cover upgrade.

Chapter 400 Requirements

- * Was the annual report fee submitted with the annual report? Yes No
- If no, reason the fee was not submitted: Direct inter-governmental billing with Service Center

Chapter 401, Section 4 Requirements

401.4.A Requirements

- * Is the facilities operations manual being properly maintained? Yes No (This includes up-to-date certified copies to the Department and to key operating and management personnel of the landfill.)
- If no, describe what is being done to bring the facility up to compliance: _____
- * Is there a certified copy of the operations manual available for use at the facility at all times? Yes No
- If no, describe what is being done to bring the facility up to compliance: Landfill not operating daily. Operations Manual with Landfill Operator and Subcontractors.
- * Was the operations manual reviewed annually by the operator and updated as necessary? Yes (Date Reviewed:) No
- If no, describe what is being done to bring the facility up to compliance: _____

401.4.B Requirements

- * Were operational personnel appropriately trained in relevant sections of the operations manual? Yes No
- If no, describe what is being done to bring the facility up to compliance: _____
- * Are at least two key personnel trained in the operation of, and regulatory requirements for, the landfill facilities? Yes No
- If no, describe what is being done to bring the facility up to compliance: _____

401.4.C Requirements

* Were all waste excepted at the facility allowed under the current license and handled as described in the landfill's approved operations manual? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facility operations manual, solid waste characterization plan, followed? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Access to the facility is controlled so that the public is not exposed to potential health and safety hazards and access is only permitted when an attendant is on duty. Yes No

The hours of operation and other limitations to access are prominently posted at the entrance to the landfill. Yes No *Landfill is closed. Gates are locked.*

If no in either, describe what is being done to bring the facility up to compliance: _____

* Are access roads within the facility maintained and is the road maintenance program implemented to prevent the migration of dust, mud or waste from the facility on access, public or private roads? Yes No

Are access roads onto a cell of a landfill constructed and maintained to prevent the migration of leachate outside the cell? Yes No

If no in either, describe what is being done to bring the facility up to compliance: _____

* Is the facilities cell development plans up-to-date and submitted with the annual report? Yes No *Only operating in temporary cell.*

If no, describe what is being done to bring the facility up to compliance: _____

* Was the waste in the active landfill cell compacted at least once during the operating day? Yes No

If no, describe what is being done to bring the facility up to compliance: *N/A*

* Was daily, intermediate and phased final cover placed according to the facilities operating manual? Yes No

If no, describe what is being done to bring the facility up to compliance: *Phase II of final capping taking place summer of 2022.*

401.4.C Requirements continued

* Was the facilities stormwater management and erosion control plan followed?
 Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facilities leachate management plan followed? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facilities methane and H₂S gas monitoring program done quarterly and any exceedances of triggers reported to the Department within 24hrs? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Were required quarterly landfill inspections completed? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facilities dust control plan followed? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Is the landfill operation equipment sufficient to meet operating requirements of this section? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Does the facility have proper fire and emergency plan? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facilities hazardous and special waste handling and exclusion plan properly followed? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facilities litter control plan properly followed? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

401.4.C Requirements continued

* Was the facilities quarterly groundwater and leachate reports submitted to the Department? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Are all the facilities operation records maintained on file as required? Yes No

If no, describe what is being done to bring the facility up to compliance: _____

* Was the facilities asbestos disposal plan followed? Yes No

If no, describe what is being done to bring the facility up to compliance: N/A

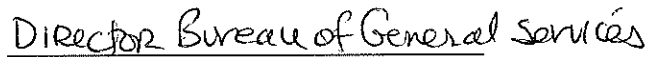


Evaluator

WILLIAM Longfellow

9/14/22

Date



Title

APPENDIX J

WATER QUALITY MONITORING DATA

REPORT PREPARED: 12/8/2021 13:56
 FOR: Dolby Landfill

SUMMARY REPORT
 Field Parameters

SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(103)		Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	mg/L	NTU						
103																
4/27/2000	XX	103XX36643	24	6.24	3.3		434.32									
8/1/2000	XX	103XX36739	30	6.03	7		425.86		15.81	9.1	4.2					
10/24/2000	XX	103XX36823	D	D	D											
5/8/2001	XX	103XX37019	25.7	6.04	5.4		432.35			11.2	2.3					
7/24/2001	XX	103XX37096	D	D	D			18.86		D	D					
10/16/2001	XX	103XX37180	D	D	D					D						
5/15/2002	XX	103XX37391	23	6.21	5		431.95			11.2	3.15					
7/29/2002	XX	103XX37466	28	4.93	10.2		426.33		15.69	9.6	1.03					
10/18/2002	XX	103XX37547	D	D	D					D	D					
6/18/2003	XX	103XX37790	26.9	6.43	7.2		430.62			10.2	0.98					
8/6/2003	XX	103XX37839	27.2	6.07	10.3		428.02		15.92	9	0.78					
10/6/2003	XX	103XX37900	30.2	5.9	9.5		429.02			10.1	1.12					
5/12/2004	XX	103XX38119	28.9	5.8	5.8		431.2			14.3	1.9					
8/19/2004	XX	103XX38218	31	6.3	10.3		426.06		15.88	9.1	0.44					
10/18/2004	XX	103XX38278	D	D	D					D	D					
5/24/2005	XX	GW103X004	25.2	7.35	6.1	7.56	432.01	439.57		10.5	1					
8/17/2005	XX	GW103X01G	31	6.13	6.7	14	425.57	439.57	15.92	10.5	0.8					
10/13/2005	XX	GW103X038	D	D	D	D				D	D					
5/15/2006	XX	GW103X084	26.1	6.49	5.3		432.85			9.7	1.4					
8/7/2006	XX	GW103X06C	31	6.28	11.4		430.95		15.81	10.1	1.24					
10/11/2006	XX	GW103X050	32	6.69	9.8		427.29			8.2	0.7					
5/22/2007	XX	GW103X09G	28	6.67	5.9		432.42			10.4	0.6					
8/21/2007	XX	GW103X0B9	D	D	D		D		16.05	D	D					
11/1/2007	XX	GW103X0D1	34	5.67	9.6		428.26			9.8	1.6					
5/28/2008	XX	GW103X0F9	29	5.63	8.1		429.35			9.6	1.9					
8/26/2008	XX	GW103X0H9	32	5.3	10.5		429.21			8.9	1.4					
10/28/2008	XX	GW103X0IH	34	5.47	9.7		429.21			8.7	0.8					
5/18/2009	XX	GW103X10H	29	5.05	6.3	8.27	431.3	439.57		10.7	0.9					
8/17/2009	XX	GW103X12H	30	4.58	11.7	9.41	430.16	439.57		8.4	2.7					
10/29/2009	XX	GW103X145	31	5.48	8.8	9.29	346.49	439.57		9.44	1.2					
6/10/2010	XX	GW103X166	30	7.15	8.1		428.48			8.8	1.01					
8/19/2010	XX	GW103X187	D	D	D		424.22			D	D					
10/26/2010	XX	GW103X19F	34	6.21	10		426.93			9.51	23.4					
11/3/2011	XX	GW103X112	32	5.9	9.9	9.66	429.91	439.57	16.05	4	1.3					
5/15/2012	XX	GW103X1JF	34	6	11.1	6.86	432.71	439.57	14.4	4	2.1					
8/14/2012	XX	GW103X218	28	5.4	12.3	13.93	425.64	439.57		8	1.2					
10/31/2012	XX	GW103X232	26	5.9	11.2	8.2	431.37	439.57	16.05	8	0					
5/22/2013	XX	GW103X24G	28	6.7	7.3	10.01	429.56	439.57		6	0.6					
7/25/2013	XX	GW103X26A	27	7.2	12.5	11.52	428.05	439.57		5	0					
10/3/2013	XX	GW103X284	33	6.2	11.7	11.99	427.58	439.57	16.03	4	0.5					
6/6/2014	XX	GW103X29I	27	5.8	7.6	9.9	429.67	439.57		2	0.4					
8/22/2014	XX	GW103X2BC	32	6.7	11.3	14.48	425.09	439.57		1	0.2					
11/14/2014	XX	GW103X2D6	27	7	7	9.43	430.14	439.57	16.1	2	1.4					
6/5/2015	XX	GW103X2F2	30	7.6	7.5	8.12	431.45	439.57		10.4	0.4					
9/2/2015	XX	GW103X2GH	30	9.1	10.2	13.58	425.99	439.57		8.9	0.05 U					
11/5/2015	XX	GW103X2IB	28	6.6	9.5	8.83	430.74	439.57	16.08	9.8	0.1					
6/13/2016	XX	GW103X32I	29	5.9	7.6	11.57	428	439.57		9.2	2					
9/19/2016	XX	GW103X33F	D	D	D	D	D	D		D	D					

SUMMARY REPORT

Field Parameters

(103)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
11/7/2016	XX	GW103X359	D	D	D	D	D	D	16.09	D	D					
6/12/2017	XX	GW103X374	28	6.3	9.9	9.5	430.07	439.57		10.5	5					
8/28/2017	XX	GW103X381	I	I	I	I	I	439.57		I	I					
11/13/2017	XX	GW103X3AC	25	7	9.3	13.95	425.62	439.57	16.09	9.9	0.2					
6/18/2018	XX	GW103X3C7	29	6.5	8.1	11.69	427.88	439.57		9.4	0.5					
8/13/2018	XX	GW103X3D2	I	I	I	I	I	439.57		I	I					
11/26/2018	XX	GW103X3FF	A	A	A	A	A	439.57		A	A					
6/3/2019	XX	GW103X3HA	59	7.6	11.7	8.02	431.55	439.57		12.7	1.1					
8/12/2019	XX	GW103X3I5	45	7	12.2	13.35	426.22	439.57		12.3	1.1					
10/23/2019	XX	GW103X40I	D	D	D	D		439.57		D	D					
6/15/2020	XX	GW103X42D	90	6.6	11.2	11.5	428.07	439.57		8.6	1.1					
8/3/2020	XX	GW103X438	I	I	I	I		439.57		I	I					
10/19/2020	XX	GW103X461	D	D	D	D		439.57	16.04	D	D					
6/21/2021	XX	GW103X47G	135	6.9	12.1	13.16	426.41	439.57		6.7	0.3					
9/20/2021	XX	GW103X49B	D	D	D	D		439.57	16.1	D	D					
104B																
4/27/2000	XX	104BXX36643	150	8.17	3.5		426.44									
8/1/2000	XX	104BXX36739	137	8.07	5		422.38		32.58	1.2	0.8					
10/24/2000	XX	104BXX36823	132	8.22	7		421.04			0.6	0.3					
5/8/2001	XX	104BXX37019	150	8.13	7.2		424.71			1	5.5					
7/24/2001	XX	104BXX37096	139	8.3	9.8		420.75		32.54	0.8	0.35					
10/16/2001	XX	104BXX37180	144	8.14	7.8		418.82			1.1	0.64					
5/15/2002	XX	104BXX37391	152	7.89	5.8		424.72			2.1	0.22					
7/29/2002	XX	104BXX37466	149	7.77	8.8		421.79		32.52	1	0.73					
10/15/2002	XX	104BXX37544	150	7.62	7.2		419.28			1.8	0.3					
6/19/2003	XX	104BXX37791	161	8.17	7.3		424.43			0.7	0.2					
8/5/2003	XX	104BXX37838	149	7.94	8.7		423.57		32.58	0.8	0.41					
10/7/2003	XX	104BXX37901	153.6	8.12	7.5		424.28			1.6	0.3					
4/26/2004	XX	104BXX38103	156.2	7.18	5.3		425.12			1.1	0.33					
8/9/2004	XX	104BXX38208	144	7.56	8.7		422.148		32.61	1.3	0.4					
10/11/2004	XX	104BXX38271	144	8.09	8.2		421.49			0.8	0.44					
5/24/2005	XX	GW104B005	143	8.31	6.2	10.81	424.92	435.73		4	0.1					
8/1/2005	XX	GW104B01H	142	7.52	8	13.41	422.32	435.73	32.58	0.9	0.6					
10/25/2005	XX	GW104B039	142	7.22	7.9	10.16	425.57	435.73		1.3	0.5					
5/10/2006	XX	GW104B085	138.9	6.96	6.2		425.2			1.2	0.58					
7/24/2006	XX	GW104B06D	141	6.82	8.4		424.44		32.52	1	0.4					
10/10/2006	XX	GW104B051	139	7.68	8.1		422.63			0.7	0.6					
5/10/2007	XX	GW104B09H	138	6.92	6.8		425.13			1.5	0.7					
8/6/2007	XX	GW104B08A	139	7.52	7.2		421.88		32.58	1	0.3					
10/24/2007	XX	GW104B0D2	140	7.14	7.7		422.37			0.7	0.7					
5/28/2008	XX	GW104B0FA	142	7.69	6.6		423.98			0.6	0.3					
8/11/2008	XX	GW104B0HA	140	7.09	8.4		424.97			0.5	0.4					
10/15/2008	XX	GW104B0II	138	7.52	7.9		424.97			0.9	0.7					
5/6/2009	XX	GW104B10I	142	6.34	6.2	10.96	424.77	435.73		1	0.6					
8/4/2009	XX	GW104B12I	142	6.8	8.3	9.41	426.32	435.73		0.7	0.7					
10/19/2009	XX	GW104B146	140	6.65	7.4	12.34	423.39	435.73		1.1	0.4					
5/25/2010	XX	GW104B167	143	6.64	7.5		423.37			0.86	0.19					
8/2/2010	XX	GW104B188	144	7.36	8.1		421.11			0.98	0.55					
10/12/2010	XX	GW104B19G	146	7.68	7.9		421.84			0.68	0.4					

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Field Parameters

(104B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
5/16/2011	XX	GW104B1DI	132	7.8	5.9	10.22	425.51	435.73	32.48	1	0.2						
8/9/2011	XX	GW104B1F9	149	7.65	12.1	14.72	421.01	435.73	32.4	1	0.2						
11/3/2011	XX	GW104B1H0	145	7.4	7.4	11.52	424.21	435.73	32.6	1	0.2						
5/14/2012	XX	GW104B1IE	146	7.9	8.2	10.24	425.49	435.73	32.42	1	0.6						
8/14/2012	XX	GW104B207	113	7.8	11.7	14.76	420.97	435.73		2	0.2						
10/31/2012	XX	GW104B221	143	7.4	10.8	10.55	425.18	435.73	32.6	0.8	0						
5/22/2013	XX	GW104B23F	144	7.3	7.7	11.35	424.38	435.73		1	0.8						
7/23/2013	XX	GW104B259	145	7.9	16	11.83	423.9	435.73		0.2	0.2						
10/1/2013	XX	GW104B273	140	7.8	11.7	11.3	424.43	435.73	32.42	1	0.5						
6/4/2014	XX	GW104B28H	143	7.7	9.3	11.55	424.18	435.73		1	0.2						
8/19/2014	XX	GW104B2AB	139	7.8	12.8	12.84	422.89	435.73		0.8	0.2						
11/12/2014	XX	GW104B2C5	145	8	7.9	10.56	425.17	435.73	32.55	1	0.2						
6/3/2015	XX	GW104B2E1	151	8	7.2	10.61	425.12	435.73		0.7	0.2						
9/2/2015	XX	GW104B2FG	131	8	11.6	12.24	423.49	435.73		0.9	0.3						
11/4/2015	XX	GW104B2HA	150	8.2	9.3	10.61	425.12	435.73	32.6	0.5	0.2						
6/14/2016	XX	GW104B310	140	7.8	8.9	11.86	423.87	435.73		0.9	0.4						
9/20/2016	XX	GW104B32E	147	8	10.6	16.25	419.48	435.73		0.7	0.3						
11/8/2016	XX	GW104B348	141	7.9	9	16.26	419.47	435.73	32.6	0.8	0.1						
6/14/2017	XX	GW104B363	137	8.1	9.2	11.99	423.74	435.73		0.8	0.5						
8/30/2017	XX	GW104B37H	153	8.2	8.9	15.98	419.75	435.73		0.8	0.2						
11/15/2017	XX	GW104B39B	150	8	8	11.4	424.33	435.73	32.6	0.4	0.2						
6/19/2018	XX	GW104B3B6	167	8.5	8	12.95	422.78	435.73		0.8	0.4						
8/14/2018	XX	GW104B3DF	171	8.1	9.9	13.38	422.35	435.73		0.6	0.3						
11/27/2018	XX	GW104B3EE	174	8.3	7.4	11.1	424.63	435.73	32.58	0.3	0.5						
6/4/2019	XX	GW104B3G9	140	7.8	8.9	10.97	424.76	435.73		4.6	0.4						
8/14/2019	XX	GW104B3II	140	8.3	9.3	14.02	421.71	435.73		5.5	0.2						
10/22/2019	XX	GW104B3JH	162	7.1	8.9	13.5	422.23	435.73		5	0.3						
6/16/2020	XX	GW104B41C	151	7.8	10.9	12.88	422.85	435.73		3.4	0.4						
8/4/2020	XX	GW104B441	124	7.1	10	15.7	420.03	435.73		2.2	0.3						
10/20/2020	XX	GW104B450	128	7.8	8.5	15.27	420.46	435.73	32.65	1.5	0.3						
6/22/2021	XX	GW104B46F	125	7.1	10.4	14.13	421.6	435.73		1.4	0.1						
9/21/2021	XX	GW104B48A	126	7.5	8.7	15.3	420.43	435.73	32.6	0.5	0.1						
107A																	
5/3/2000	XX	107AXX36649	1263	6.69	4.4		352.78										
8/10/2000	XX	107AXX36748	987	6.5	7		350.44		22.19	0.51	0.2						
11/9/2000	XX	107AXX36839	807	6.76	9		350.66			0.53	0.3						
5/16/2001	XX	107AXX37027	1083	6.58	7.1		351.59			0.4	0.1						
8/1/2001	XX	107AXX37104	1948	6.41	12.4		349.87		22.31	0.8	0.1						
10/24/2001	XX	107AXX37188	2620	6.63	11		350.19			0.8	0.3						
5/22/2002	XX	107AXX37398	2520	6.77	10.5		352.06			0.7	0.6						
8/2/2002	XX	107AXX37470	2710	6.52	12.4		350.61		22.31	0.4	0.3						
10/23/2002	XX	107AXX37552	2230	6.79	9.9		350.68			0.5	0.3						
6/24/2003	XX	107AXX37796	2220	6.56	10.6		351.52			0.3	0.2						
8/13/2003	XX	107AXX37846	2150	6.59	11.6		351.32		22.19	0.5	0.22						
10/16/2003	XX	107AXX37910	1967	6.66	10		351.89			0.7	0.34						
5/13/2004	XX	107AXX38120	1042	6.82	4.5		351.91			1.2	0.44						
8/2/2004	XX	107AXX38201	835	6.89	13		350.94		22.24	0.7	0.22						
10/19/2004	XX	107AXX38279	897	6.92	11.6		350.74			0.5	0.49						
5/10/2005	XX	GW107A006	1305	6.59	8.6	2.87	353.22	356.09		0.9	0.3						

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Field Parameters

(107A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
7/27/2005	XX	GW107A011	1375	6.4	11.6	5.23	350.86	356.09	22.23	1.5	0.3						
10/27/2005	XX	GW107A03A	1178	6.5	9.5	2.78	353.31	356.09		0.5	0.4						
5/3/2006	XX	GW107A086	697	6.75	6.5		352.57			0.8	0.42						
8/1/2006	XX	GW107A06E	597	6.79	12.7		351.44		22.03	0.6	0.5						
10/25/2006	XX	GW107A052	562	6.8	10.2		351.91			0.1	0.6						
5/8/2007	XX	GW107A09I	526	6.78	6.8		352.89			0.6	0.3						
8/7/2007	XX	GW107A08B	609	6.74	11.2		350.59		22.21	0.85	0.3						
10/31/2007	XX	GW107A0D3	843	6.6	10.3		350.71			2	0.5						
5/28/2008	XX	GW107A0FB	819	6.56	8.5		351.61			0.4	0.4						
8/18/2008	XX	GW107A0HB	699	6.42	12.2		351.82			0.1	0.4						
10/23/2008	XX	GW107A0IJ	615	6.52	9		351.82			0.6	0.3						
5/12/2009	XX	GW107A10J	503	6.43	8.6	3.58	352.51	356.09		0.58	0.1						
8/11/2009	XX	GW107A12J	555	5.98	12.3	3.93	352.16	356.09		0.39	1.5						
10/26/2009	XX	GW107A147	616	6.62	8.9	4.44	351.65	356.09		0.1	0.6						
6/2/2010	XX	GW107A168	520	6.79	9.5		351.06			0.59	0.27						
8/5/2010	XX	GW107A189	600	6.28	12.2		349.97			0.31	0.4						
10/18/2010	XX	GW107A19H	961	6.4	10.6		350.97			0.11	0.28						
5/18/2011	XX	GW107A1D8	970	6.2	12.2	2.9	353.19	356.09	22.1	1	0						
8/9/2011	XX	GW107A1EJ	800	6.33	15.1	5.74	350.35	356.09	22.04	1	0.4						
11/2/2011	XX	GW107A1GA	713	6.5	6.1	4.52	351.57	356.09	22.23	1	0.6						
5/17/2012	XX	GW107A1I4	813	6.5	10.1	3.28	352.81	356.09	22.04	1	0						
8/14/2012	XX	GW107A1JH	890	6.2	17.5	6.04	350.05	356.09		1	0.4						
10/31/2012	XX	GW107A21B	1117	6.7	13.1	3.66	352.43	356.09	22.2	1	0						
5/21/2013	XX	GW107A235	1301	6.5	10.8	4.44	351.65	356.09		0.8	0.1						
7/22/2013	XX	GW107A24J	1080	6.5	15.3	5.2	350.89	356.09		0.8	0.2						
10/1/2013	XX	GW107A26D	925	6.6	17.4	5.79	350.3	356.09	22.23	1	0.5						
6/4/2014	XX	GW107A287	477	7	10.3	4.4	351.69	356.09		0.8	0.8						
8/19/2014	XX	GW107A2A1	787	6.8	15.9	5.53	350.56	356.09		0.6	0.6						
11/12/2014	XX	GW107A2BF	999	6.7	8.2	4.5	351.59	356.09	22.02	0.8	0.6						
6/3/2015	XX	GW107A2DB	773	6.7	8.1	3.7	352.39	356.09		0.6	0.3						
9/2/2015	XX	GW107A2F6	1118	6.6	15.8	4.95	351.14	356.09		0.7	0.3						
11/4/2015	XX	GW107A2H0	1246	6.7	9.4	3.92	352.17	356.09	22.04	0.9	0.7						
6/15/2016	XX	GW107A30A	655	6.6	10.4	4.66	351.43	356.09		0.5	0.6						
9/20/2016	XX	GW107A324	627	6.8	14.6	6.55	349.54	356.09		0.4	0.4						
11/8/2016	XX	GW107A33I	816	6.7	11.3	6.04	350.05	356.09	22.22	0.2	0.5						
6/14/2017	XX	GW107A35D	1271	6.5	9.5	4.51	351.58	356.09		0.4	3.1						
8/29/2017	XX	GW107A377	1543	6.7	12.9	6.35	349.74	356.09		0.5	0.3						
11/15/2017	XX	GW107A39I	1415	6.7	9.6	4.65	351.44	356.09	22.22	0.6	0.5						
6/19/2018	XX	GW107A3AG	896	7	10.1	5.2	350.89	356.09		0.3	1.3						
8/16/2018	XX	GW107A3D5	1258	7.2	11.8	5.28	350.81	356.09		0.6	0.5						
11/28/2018	XX	GW107A3E4	1038	7.3	6.9	5.28	350.81	356.09	22.22	0.4	0.5						
6/5/2019	XX	GW107A3FJ	653	7.2	11.1	3.74	352.35	356.09		0.1 U	0.4						
8/14/2019	XX	GW107A3I8	1000	6.9	13.5	5.43	350.66	356.09		3.5	0.4						
10/23/2019	XX	GW107A3J7	914	7.1	9.6	6.86	349.23	356.09		0.5	0.8						
6/17/2020	XX	GW107A412	565	7	12.7	6.95	349.14	356.09		0.5	0.6						
8/4/2020	XX	GW107A43B	760	6.7	14.7	6.16	349.93	356.09		0.7	0.5						
10/22/2020	XX	GW107A44A	1190	7	11	5.19	350.9	356.09	22.22	0.9	0.6						
6/22/2021	XX	GW107A465	972	6.9	14.7	5.46	350.63	356.09		0.4	0.2						
9/21/2021	XX	GW107A480	1352	6.8	13.2	5.12	350.97	356.09	22.23	0.4	0.8						

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Field Parameters

(113)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)							
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU							
113																		
4/27/2000	XX	113XX36643	1216	6.73	3.2		393											
8/1/2000	XX	113XX36739	1439	6.43	9		391.58		21.44	0.6	0.7							
11/8/2000	XX	113XX36838	1241	6.48	8		391.46			0.54	0.5							
5/8/2001	XX	113XX37019	1278	6.4	7.5		392.46			0.6	0.9							
7/24/2001	XX	113XX37096	1338	6.4	11.3		391.11		21.47	0.7	1.68							
10/16/2001	XX	113XX37180	1348	6.36	9.4		390.77			0.9	0.54							
5/15/2002	XX	113XX37391	1279	6.36	5.4		392.67			0.9	0.27							
7/31/2002	XX	113XX37468	1504	6.37	11.1		391.73		21.28	0.4	2.67							
10/18/2002	XX	113XX37547	1465	6.4	8.9		391.04			0.5	0.5							
6/18/2003	XX	113XX37790	1442	6.4	7.5		392.44			0.3	0.75							
8/6/2003	XX	113XX37839	1448	6.42	10		392.28		21.44	0.5	1.32							
10/6/2003	XX	113XX37900	1453	6.38	9.5		392.49			1.3	0.5							
5/12/2004	XX	113XX38119	1411	6.48	6.4		392.44			0.6	0.46							
8/19/2004	XX	113XX38218	1396	6.32	9.6		391.94		21.46	2.1	1.62							
10/18/2004	XX	113XX38278	1326	6.4	8.9		391.6			0.7	0.87							
5/24/2005	XX	GW113X008	1106	6.43	5.7	4.03	392.59	396.62		0.7	0.6							
8/17/2005	XX	GW113X020	1279	6.3	6.8	5.26	391.36	396.62	21.46	0.8	1.1							
10/13/2005	XX	GW113X03C	1275	6.15	6.1	4.21	392.41	396.62		0.7	0.6							
5/15/2006	XX	GW113X088	1201	6.4	6.1		392.64			1.3	0.66							
8/7/2006	XX	GW113X06G	1244	6.34	10.7		392.22		21.42	1.2	2.5							
10/11/2006	XX	GW113X054	1240	6.38	9.4		391.33			0.2	0.6							
5/22/2007	XX	GW113X0A0	1131	6.4	6.2		392.66			0.1	0.4							
8/21/2007	XX	GW113X0BD	1224	6.32	8.9		390.9		21.45	0.1	0.9							
11/1/2007	XX	GW113X0D5	1182	6.43	9.2		391.97			0.6	0.6							
5/28/2008	XX	GW113X0FD	1212	6.33	8.3		392.21			0.1	0.9							
8/26/2008	XX	GW113X0HD	1236	6.41	9.9		392.23			0.1	0.6							
10/28/2008	XX	GW113X0J1	1209	6.26	9.2		392.23			0.2	0.8							
5/18/2009	XX	GW113X111	1112	6.32	6.1	4.12	392.5	396.62		0.1	0.8							
8/17/2009	XX	GW113X131	1154	6.08	10.7	4.35	392.27	396.62		0.1	1.3							
10/29/2009	XX	GW113X149	1178	6.26	8.3	4.12	392.5	396.62		0.1	1							
6/10/2010	XX	GW113X16A	1121	6.24	7.6		391.23			0.1	0.68							
8/19/2010	XX	GW113X18B	1139	6.1	10.2		390.15			0.33	0.53							
10/26/2010	XX	GW113X19J	1118	6.14	9.5		392.07			0.1	0.47							
11/4/2011	XX	GW113X1I3	1105	6.3	7.8	4.19	392.43	396.62	21.5	1	0.7							
5/17/2012	XX	GW113X1JG	972	6.4	8.5	4.02	392.6	396.62	21.3	1	0							
8/14/2012	XX	GW113X219	1000	6	14.4	4.92	391.7	396.62		3	1.8							
10/31/2012	XX	GW113X233	1015	6.5	12.1	3.8	392.82	396.62	21.45	1	0							
5/22/2013	XX	GW113X24H	988	6	8.6	4.22	392.4	396.62		1	0.4							
7/25/2013	XX	GW113X26B	1001	6.2	11.7	4.43	392.19	396.62		1	0							
10/3/2013	XX	GW113X285	985	6.4	11	4.4	392.22	396.62	21.43	1	0.2							
6/6/2014	XX	GW113X29J	925	6.4	9.4	4.2	392.42	396.62		1	0.5							
8/22/2014	XX	GW113X2BD	936	6.7	12.1	5.01	391.61	396.62		1	0.3							
11/14/2014	XX	GW113X2D7	924	6.6	7.7	4.05	392.57	396.62	21.49	1	0.5							
6/5/2015	XX	GW113X2F3	1049	6.4	8.7	4.03	392.59	396.62		1.2	0.4							
9/2/2015	XX	GW113X2GI	972	6.9	11.2	4.64	391.98	396.62		1	0.2							
11/5/2015	XX	GW113X2IC	929	6.1	8.9	4.05	392.57	396.62	21.49	0.7	0.2							
6/13/2016	XX	GW113X322	989	6.2	8.5	4.37	392.25	396.62		0.6	0.5							
9/19/2016	XX	GW113X33G	950	6.7	12.5	6.44	390.18	396.62		0.6	0.3							

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Field Parameters

(113)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
11/7/2016	XX	GW113X35A	948	6.5	8.7	6.42	390.2	396.62	21.48	0.6	0.2						
6/12/2017	XX	GW113X375	924	6.4	9.8	4.19	392.43	396.62		0.1	4.2						
8/28/2017	XX	GW113X38J	1094	6.6	11.2	5.41	391.21	396.62		0.8	0.3						
11/13/2017	XX	GW113X3AD	1023	6.3	8.6	4.18	392.44	396.62	21.48	1.5	0.2						
6/18/2018	XX	GW113X3C8	1080	6.6	9.2	4.5	392.12	396.62		1.4	0.3						
8/13/2018	XX	GW113X3D3	1262	6.4	13.9	4.88	391.74	396.62		0.5	0.5						
11/26/2018	XX	GW113X3FG	A	A	A	A	A	396.62		A	A						
6/3/2019	XX	GW113X3HB	910	7.1	12.2	4.15	392.47	396.62		9.9	0.5						
8/12/2019	XX	GW113X3I6	767	6.9	15.3	4.39	392.23	396.62		3.2	1.2						
10/23/2019	XX	GW113X40J	777	7.3	10.4	5.34	391.28	396.62		8.3	0.5						
6/15/2020	XX	GW113X42E	683	6.9	11.4	5.4	391.22	396.62		3.2	0.8						
8/3/2020	XX	GW113X439	806	6.8	19.9	6.05	390.57	396.62		5	0.5						
10/19/2020	XX	GW113X462	998	6.8	11.5	5.36	391.26	396.62	21.5	7.6	1.7						
6/21/2021	XX	GW113X47H	932	6.7	16	5.15	391.47	396.62		4.3	1.2						
9/20/2021	XX	GW113X49C	961	6.8	15.1	5.57	391.05	396.62	21.3	4.7	1.2						

202AR

4/27/2000	XX	202ARXX36643	1804	6.65	3.7		413.27										
8/2/2000	XX	202ARXX36740	1767	6.72	7		410.84		84.33	0.47	0.2						
10/24/2000	XX	202ARXX36823	1739	6.71	6		409.82			0.4	0.2						
5/9/2001	XX	202ARXX37020	1912	6.62	7.2		412.01			0.6	0.3						
7/24/2001	XX	202ARXX37096	1785	6.58	10.8		408.7		84.25	0.5	0.2						
10/16/2001	XX	202ARXX37180	1929	6.53	9.3		407.89			3.1	0.2						
5/16/2002	XX	202ARXX37392	1947	6.61	7.1		413.12			1	0.27						
7/31/2002	XX	202ARXX37468	1853	6.57	11.1		410.15		84.22	1.2	0.53						
10/16/2002	XX	202ARXX37545	1915	6.63	7.6		408.32			4	0.2						
6/17/2003	XX	202ARXX37789	1995	6.59	8		412.37			0.2	1.7						
8/6/2003	XX	202ARXX37839	1851	6.61	10.1		411.54		84.07	0.4	0.43						
10/8/2003	XX	202ARXX37902	1906	6.62	8.1		412.43			1.7	0.31						
4/28/2004	XX	202ARXX38105	1930	6.62	5.4		412.42			2.4	0.22						
8/11/2004	XX	202ARXX38210	1806	6.49	9.3		409.4		84.32	2.4	0.26						
10/12/2004	XX	202ARXX38272	1786	6.52	8.2		409.05			2	0.41						
5/19/2005	XX	GW202A009	1717	6.58	6.6	1.91	412.03	413.94		3.8	0.2						
8/4/2005	XX	GW202A021	1680	6.56	5.8	4.22	409.72	413.94	84.25	0.6	0.4						
10/25/2005	XX	GW202A03D	1781	6.57	7.8	1.47	412.47	413.94		0.3	0.3						
5/9/2006	XX	GW202A089	1687	6.56	6.4		411.62			1.4	0.49						
7/25/2006	XX	GW202A06H	1680	6.52	10.5		411.02		84.05	0.6	0.4						
10/19/2006	XX	GW202A055	1686	6.64	8.7		411.36			0.1	0.4						
5/10/2007	XX	GW202A0A1	1673	6.53	8.3		411.23			0.2	0.6						
8/6/2007	XX	GW202A0BE	1669	6.49	9.6		408.42		84.25	0.1	0.4						
10/25/2007	XX	GW202A0D6	1746	6.57	8		410.46			0.4	0.5						
5/29/2008	XX	GW202A0FE	1656	6.64	6.7		410.63			0.1	0.4						
8/12/2008	XX	GW202A0HE	1713	6.54	10.4		411.72			0.1	0.7						
10/16/2008	XX	GW202A0J2	1595	6.54	8.6		411.72			1.4	0.5						
5/4/2009	XX	GW202A112	1693	6.46	7	2.64	411.3	413.94		0.3	0.2						
8/5/2009	XX	GW202A132	1689	6.06	10.7	2.14	411.8	413.94		0.2	0.5						
10/20/2009	XX	GW202A14A	1643	6.34	7.5	3.6	410.34	413.94		0.1	0.4						
5/26/2010	XX	GW202A16B	1577	6.33	9.4		409.66			5.56	0.25						
8/2/2010	XX	GW202A18C	1628	6.33	10.1		407.83			0.42	0.54						
10/12/2010	XX	GW202A1A0	1693	6.44	8.4		410.31			0.42	0.42						

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 FOR: Dolby Landfill

SUMMARY REPORT
Field Parameters

SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(202AR)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
5/17/2011	XX	GW202A1DJ	1515	6.5	6.2	2.04	411.9	413.94	84.08	1	0.7						
8/10/2011	XX	GW202A1FA	1602	6.43	11.3	5.97	407.97	413.94	84.1	1	0.2						
11/3/2011	XX	GW202A1H1	1648	6.5	7.8	2.98	410.96	413.94	84.25	1	0.2						
5/16/2012	XX	GW202A1IF	1527	6.5	9.8	2.53	411.41	413.94	84.06	0.6	0						
8/15/2012	XX	GW202A208	1524	6.5	12.1	6.35	407.59	413.94		0.4	0.2						
10/31/2012	XX	GW202A222	1546	6.7	12.1	2.1	411.84	413.94	84.3	0.4	0						
5/20/2013	XX	GW202A23G	1579	6.6	8.8	3.65	410.29	413.94		1	0.3						
7/23/2013	XX	GW202A25A	1540	6.5	12.3	5.29	408.65	413.94		1	0.2						
10/2/2013	XX	GW202A274	1514	6.7	11.2	4.24	409.7	413.94	84.29	0.3	0.2						
6/3/2014	XX	GW202A28I	1496	6.5	11.3	4.3	409.64	413.94		1	1.3						
8/19/2014	XX	GW202A2AC	1459	6.8	11.3	5.96	407.98	413.94		0.8	0.1						
11/12/2014	XX	GW202A2C6	1437	6.7	7.5	3.11	410.83	413.94	84.18	1	0.2						
6/2/2015	XX	GW202A2E2	1654	6.5	7	3.48	410.46	413.94		0.4	0.3						
9/2/2015	XX	GW202A2FH	1429	6.5	12.1	5.44	408.5	413.94		0.5	0.05 U						
11/3/2015	XX	GW202A2HB	1475	6.5	7.9	3.35	410.59	413.94	84.3	0.1	0.2						
6/14/2016	XX	GW202A311	1433	6.4	10.9	4.52	409.42	413.94		0.7	1.5						
9/22/2016	XX	GW202A32F	1458	6.5	10.1	8.87	405.07	413.94		0.8	0.5						
11/9/2016	XX	GW202A349	1460	6.5	8.6	9.12	404.82	413.94	84.2	0.1	0.1						
6/13/2017	XX	GW202A364	1400	6.6	10.3	4.33	409.61	413.94		3	0.8						
8/30/2017	XX	GW202A37I	1435	6.4	9.4	7.45	406.49	413.94		0.3	0.8						
11/16/2017	XX	GW202A39C	1394	6.8	7.4	7.56	406.38	413.94	84.2	0.6	0.5						
6/20/2018	XX	GW202A3B7	1586	6.7	9.6	4.96	408.98	413.94		0.5	0.3						
8/14/2018	XX	GW202A3DG	1570	6.6	10.5	5.54	408.4	413.94		0.3	0.1						
11/27/2018	XX	GW202A3EF	F	F	F	F	F	413.94		F	F						
6/4/2019	XX	GW202A3GA	1418	6.6	9	3.93	410.01	413.94		2.8	1.2						
8/13/2019	XX	GW202A3IJ	1403	6.6	11.6	5.72	408.22	413.94		1.6	0.3						
10/24/2019	XX	GW202A3JI	1410	6.9	8	4.13	409.81	413.94		0.4	0.2						
6/16/2020	XX	GW202A41D	1273	6.6	9	5.25	408.69	413.94		0.5	0.6						
8/5/2020	XX	GW202A442	1272	6.5	11	7.5	406.44	413.94		0.4	0.4						
10/22/2020	XX	GW202A451	1276	6.8	9.3	4.65	409.29	413.94	84.32	1.5	0.5						
6/23/2021	XX	GW202A46G	1276	6.6	8.9	6	407.94	413.94		1.1	0.2						
9/23/2021	XX	GW202A48B	1298	6.5	11.4	3.51	410.43	413.94	84.2	0.3	0.3						
202B & 202BR																	
4/27/2000	XX	202BXX36643	929	6.68	3.6		409.98										
8/2/2000	XX	202BXX36740	1566	6.55	9		407.94		12.15	0.4	2.4						
10/24/2000	XX	202BXX36823	1910	6.59	8		407.42			0.4	3.9						
5/9/2001	XX	202BXX37020	1298	6.45	6.8		409.11			0.4	9						
7/25/2001	XX	202BXX37097	1875	6.49	12.3		405.94		12.13	0.6	4.42						
10/16/2001	XX	202BXX37180	1548	6.61	11.1		405.25			0.6	1.75						
5/16/2002	XX	202BXX37392	1207	6.39	6.2		410.08			1.4	0.76						
7/31/2002	XX	202BXX37468	1661	6.42	12.8		407.4		12.13	0.4	3.31						
10/16/2002	XX	202BXX37545	1576	6.68	9.4		405.64			0.7	8.1						
6/17/2003	XX	202BXX37789	1285	6.53	8.1		409.24			0.3	4.7						
8/6/2003	XX	202BXX37839	1394	6.52	12.8		408.58		12.15	0.4	1.21						
10/8/2003	XX	202BXX37902	1648	6.48	10.6		409.36			0.7	3.42						
4/28/2004	XX	202BXX38105	1200	6.54	5.5		409.25			1.7	1.91						
8/11/2004	XX	202BXX38210	1732	6.42	12.1		406.54		12.14	1.1	1.6						
10/12/2004	XX	202BXX38272	1828	6.45	10		406.24			0.7	2.61						
5/19/2005	XX	GW202B00A	883	6.53	6.2	5.49	408.87	414.36		0.8	6.4						

SUMMARY REPORT

Field Parameters

(202B & 202BR)			Specific Conductance	pH	Temperature	Water Level	Water Level	Water Level	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
8/4/2005	XX	GW202B022	1300	6.45	8.1	7.42	406.94	414.36	11.37 Z3	1.2	19.1						
10/25/2005	XX	GW202B03E	1345	6.5	9.2	5.01	409.35	414.36		0.7	48.9						
5/9/2006	XX	GW202B08A	917	6.57	5.4		408.59			0.9	49.2						
7/25/2006	XX	GW202B06I	1066	6.42	12.3		408.08		11.24	1.1	35.3						
10/19/2006	XX	GW202B056	1399	6.52	10.1		408.49			0.3	35.4						
5/10/2007	XX	GW202B0A2	865	6.52	6.6		408.17			0.1	29.1						
8/6/2007	XX	GW202B0BF	1377	6.7	12.5		405.83		11.41	6.29	48.7						
10/25/2007	XX	GW202B0D7	1214	6.6	9.7		407.76			0.6	7.5						
5/29/2008	XX	GW202B0FF	822	6.64	6.9		407.48			0.6	9.4						
8/26/2008	XX	GW202B0HF	880	6.48	13		408.6			0.3	12.6						
10/16/2008	XX	GW202B0J3	1153	6.4	10.4		408.6			0.8	23.7						
5/4/2009	XX	GW202B113	822	6.41	6	6.46	407.9	414.36		0.48	27.4						
8/5/2009	XX	GW202B133	864	5.96	13.4	5.92	408.44	414.36		0.41	28.2						
10/20/2009	XX	GW202B14B	1255	6.18	8.9	7.1	407.26	414.36		0.1	64.7						
5/26/2010	XX	GW202B16C	912	6.56	9.4		406.55			0.19	11.6						
8/2/2010	XX	GW202B18D	1260	6.33	12.8		404.85			0.66	3.88						
10/12/2010	XX	GW202B1A1	867	6.5	10.7		407.29			0.98	3.31						
5/17/2011	XX	GW202B1E0	650	6.5	5.5	5.62	408.74	414.36	11.25	1	4.1						
8/10/2011	XX	GW202B1FB	1290	6.37	13.6	9.16	405.2	414.36	11.25	1	3						
11/3/2011	XX	GW202B1H2	886	6.5	9.3	6.65	407.71	414.36	11.5	1	1.2						
5/16/2012	XX	GW202B1IG	710	6.5	8.8	6.1	408.26	414.36	11.27	0.4	6						
8/15/2012	XX	GW202B209	1125	6.4	15.4	9.5	404.86	414.36		0.6	0.6						
10/31/2012	XX	GW202B223	807	6.7	12.8	5.56	408.8	414.36	11.53	0.6	0						
5/20/2013	XX	GW202B23H	751	6.6	8.5	7.02	407.34	414.36		4	11.1						
7/23/2013	XX	GW202B25B	853	6.4	13.4	8.76	405.6	414.36		2	2.9						
10/2/2013	XX	GW202B275	973	6.7	13.8	7.31	407.05	414.36	11.48	0.8	0.2						
6/3/2014	XX	GW202B28J	842	6.6	10.6	7.92	406.44	414.36		2	5.3						
8/19/2014	XX	GW202B2AD	1162	6.7	12.9	9.15	405.21	414.36		0.8	0.3						
11/12/2014	XX	GW202B2C7	1162	6.6	8	6.6	407.76	414.36	11.42	2	0.2						
6/2/2015	XX	GW202B2E3	793	6.6	7.8	6.65	407.71	414.36		0.3	0.1						
9/2/2015	XX	GW202B2F1	1209	6.5	16.1	8.64	405.72	414.36		0.9	0.2						
11/3/2015	XX	GW202B2HC	1028	6.5	8.8	6.6	407.76	414.36	11.5	0.4	0.1						
6/14/2016	XX	GW202B312	778	6.3	9	8.13	406.23	414.36		0.2	11.3						
9/22/2016	XX	GW202B32G	!	!	!	!	!	414.36		!	!						
11/9/2016	XX	GW202B34A	!	!	!	11.03	403.33	414.36	11.52	!	!						
6/13/2017	XX	GW202B365	847	6.6	13.1	7.92	406.44	414.36		1	7.4						
8/30/2017	XX	GW202B37J	!	!	!	!	!	414.36		!	!						
11/16/2017	XX	GW202B39D	1108	6.6	8	7.4	406.96	414.36	11.52	0.6	0.3						
6/20/2018	XX	GW202B3B8	840	6.7	14.3	8.6	405.76	414.36		1.2	2.5						
8/14/2018	XX	GW202B3DH	713	6.6	17.2	9.1	405.26	414.36		1.6	2.4						
11/27/2018	XX	GW202B3EG	1369	7	5.4	7.26	407.1	414.36	11.52	0.2	0.5						
6/4/2019	XX	GW202B3GB	604	6.7	9.7	7.59	406.77	414.36		2.4	2.3						
8/13/2019	XX	GW202B3J0	949	6.6	15.5	9.31	405.05	414.36		3.5	0.8						
10/24/2019	XX	GW202B3JJ	917	6.9	9	7.56	406.8	414.36		0.6	0.3						
6/16/2020	XX	GW202B41E	!	!	!	!	!	414.36		!	!						
8/5/2020	XX	GW202B443	!	!	!	!	!	414.36		!	!						
10/22/2020	XX	GW202B452	!	!	!	!	!	414.36		!	!						
6/23/2021	XX	GW202B46H	!	!	!	!	!	414.36		!	!						
9/23/2021	XX	GW202B48C	1431	6.4	13.1	6.16			14.6	0.7	1.2						

SUMMARY REPORT

Field Parameters

(205A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
205A																
4/27/2000	XX	205AXX36643	553	7.16	4		414.67									
8/2/2000	XX	205AXX36740	692	7.06	9		411.86		34.92	0.57	0.3					
10/25/2000	XX	205AXX36824	541	7.1	6		411.33			0.7	0.2					
5/9/2001	XX	205AXX37020	660	7.02	7.8		413.35			0.8	0.2					
7/25/2001	XX	205AXX37097	601	7.04	11		409.62		34.89	1	0.1					
10/17/2001	XX	205AXX37181	570	7.08	9.6		410.25			2.9	0.18					
5/15/2002	XX	205AXX37391	906	6.92	6.4		414.43			0.9	0.17					
8/1/2002	XX	205AXX37469	764	6.88	10.6		411.26		35.71	0.8	0.29					
10/16/2002	XX	205AXX37545	758	6.88	8.2		410.36			0.6	0.2					
6/19/2003	XX	205AXX37791	994	6.94	8.5		413.62			0.4	0.5					
8/20/2003	XX	205AXX37853	758	6.97	10.7		412.11		34.96	0.5	0.36					
10/9/2003	XX	205AXX37903	746	7	10		413.66			0.8	0.29					
4/27/2004	XX	205AXX38104	852	7.06	5.2		413.89			2.3	0.25					
8/12/2004	XX	205AXX38211	713	6.8	11.6		411.35		34.94	1	0.35					
10/14/2004	XX	205AXX38274	686	6.88	8.2		411.07			1.1	0.19					
5/17/2005	XX	GW205A00B	901	7	6.5	5.62	414.45	420.07		0.7	0.2					
8/4/2005	XX	GW205A023	966	6.97	6.8	8.21	411.86	420.07	34.88	1	0.4					
10/27/2005	XX	GW205A03F	737	6.92	8.2	5.22	414.85	420.07		1.1	0.5					
5/9/2006	XX	GW205A08B	818	7	6.9		413.72			0.8	0.51					
7/25/2006	XX	GW205A06J	1013	6.92	11.1		413.02		34.7	0.6	0.5					
10/23/2006	XX	GW205A057	683	7.15	8.7		414.27			0.1	0.3					
5/14/2007	XX	GW205A0A3	928	6.84	6.1		412.16			0.1	0.5					
8/16/2007	XX	GW205A0BG	857	7.01	9		411.02		34.87	0.7	0.7					
10/25/2007	XX	GW205A0D8	758	7.13	9.1		413.17			0.2	0.5					
5/29/2008	XX	GW205A0FG	971	7.23	6.8		412.81			0.1	0.4					
8/12/2008	XX	GW205A0HG	989	6.97	11		414.05			0.1	0.9					
10/16/2008	XX	GW205A0J4	861	6.94	9.5		414.05			0.2	0.7					
5/4/2009	XX	GW205A114	909	6.9	7.3	6.3	413.77	420.07		0.4	0.4					
8/5/2009	XX	GW205A134	938	6.56	12.3	5.47	414.6	420.07		0.5	0.9					
10/20/2009	XX	GW205A14C	801	6.85	8.3	7.15	412.92	420.07		0.1	1					
5/26/2010	XX	GW205A16D	842	6.98	9.7		411.94			0.63	0.28					
8/3/2010	XX	GW205A18E	749	6.74	10.3		410.29			0.4	1.49					
10/13/2010	XX	GW205A1A2	616	6.95	9.5		412.82			0.42	0.87					
5/17/2011	XX	GW205A1E1	680	7	6.3	5.38	414.69	420.07	34.71	0.8	2.9					
8/9/2011	XX	GW205A1FC	827	6.9	13.8	9.1	410.97	420.07	34.72	2	1.5					
11/3/2011	XX	GW205A1H3	724	6.9	10.1	6.7	413.37	420.07	35.91	2	0.3					
5/16/2012	XX	GW205A1IH	588	7.1	11.1	5.71	414.36	420.07	34.7	1	0					
8/16/2012	XX	GW205A20A	643	7	13.7	10.86	409.21	420.07		2	0.8					
10/30/2012	XX	GW205A224	575	7.1	12.7	6.61	413.46	420.07	34.89	1	0					
5/20/2013	XX	GW205A23I	561	6.9	8.8	7.5	412.57	420.07		1	0.5					
7/23/2013	XX	GW205A25C	572	7.3	10.3	8.5	411.57	420.07		1	0.7					
10/2/2013	XX	GW205A276	516	7.5	12.9	7.75	412.32	420.07	34.97	1	0.3					
6/3/2014	XX	GW205A290	510	7.1	10.1	7.23	412.84	420.07		2	0.3					
8/19/2014	XX	GW205A2AE	512	7.2	11.6	9.05	411.02	420.07		0.8	0.2					
11/12/2014	XX	GW205A2C8	494	7.3	8.2	6.05	414.02	420.07	34.82	2	0.5					
6/2/2015	XX	GW205A2E4	544	7.3	6.6	6.2	413.87	420.07		0.4	0.3					
9/2/2015	XX	GW205A2FJ	474	7.7	11.6	7.92	412.15	420.07		0.5	0.8					
11/3/2015	XX	GW205A2HD	472	7.1	8.6	5.98	414.09	420.07	34.85	8.6	0.8					

SUMMARY REPORT
Field Parameters

(205A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
6/14/2016	XX	GW205A313	534	7.3	8.5	7.45	412.62	420.07		0.5	1.5					
9/21/2016	XX	GW205A32H	548	7.6	9.8	11.25	408.82	420.07		0.5	0.4					
11/9/2016	XX	GW205A34B	489	7.2	9.5	10.1	409.97	420.07	34.83	0.6	0.2					
6/13/2017	XX	GW205A366	508	7.4	10.8	7.01	413.06	420.07		0.9	1.6					
8/30/2017	XX	GW205A380	508	6.9	9.5	10	410.07	420.07		1	0.5					
11/16/2017	XX	GW205A39E	488	7.8	7.8	6.43	413.64	420.07	34.83	0.3	0.5					
6/19/2018	XX	GW205A3B9	551	7.5	8.9	8.11	411.96	420.07		0.8	1.6					
8/14/2018	XX	GW205A3DI	542	7.2	10.5	7.74	412.33	420.07		0.5	0.3					
11/27/2018	XX	GW205A3EH	497	7.7	7.6	6.15	413.92	420.07	34.81	0.5	0.8					
6/4/2019	XX	GW205A3GC	484	7.5	7.7	6.2	413.87	420.07		2.1	1.1					
8/13/2019	XX	GW205A3J1	482	7.3	10.7	9.3	410.77	420.07		4.5	0.8					
10/23/2019	XX	GW205A400	454	7.6	8.9	8.1	411.97	420.07		0.6	0.6					
6/16/2020	XX	GW205A41F	411	7.3	10	8.21	411.86	420.07		1	0.8					
8/5/2020	XX	GW205A444	430	7.3	13.7	10.6	409.47	420.07		1.2	0.6					
10/20/2020	XX	GW205A453	417	7.1	9.3	6.63	413.44	420.07	34.77	3.1	0.6					
6/23/2021	XX	GW205A46I	409	7	8.7	9.13	410.94	420.07		1.2	0.6					
9/22/2021	XX	GW205A48D	403	7.1	11.5	7.4	412.67	420.07	34.51	0.6	0.3					
205B																
4/27/2000	XX	205BXX36643	378	7.16	3.3		415.25									
8/2/2000	XX	205BXX36740	328	7.08	8		412.14		17.75	0.45	0.5					
10/25/2000	XX	205BXX36824	386	7.03	8		411.77			0.6	0.2					
5/9/2001	XX	205BXX37020	796	6.89	8		413.75			0.5	0.4					
7/25/2001	XX	205BXX37097	461	6.88	11.4		409.64		17.79	0.8	0.66					
10/17/2001	XX	205BXX37181	697	6.74	10.9		410.62			1.8	0.48					
5/15/2002	XX	205BXX37391	968	7.01	5.7		415			0.9	0.22					
8/1/2002	XX	205BXX37469	865	6.49	10.1		411.42		18.58	0.4	0.4					
10/16/2002	XX	205BXX37545	1144	6.44	9.4		410.68			1	0.5					
6/19/2003	XX	205BXX37791	1066	6.85	8.1		413.91			0.5	0.4					
8/19/2003	XX	205BXX37852	597	6.62	11.1		412.51		17.76	0.4	4.24					
10/9/2003	XX	205BXX37903	1274	6.75	10.4		414.01			1.1	0.43					
4/27/2004	XX	205BXX38104	876	7.03	5.9		414.32			2.1	0.2					
8/12/2004	XX	205BXX38211	395	6.73	10.5		411.5		17.79	1.7	0.52					
10/14/2004	XX	205BXX38274	460	6.54	9.7		411.15			0.4	0.72					
5/17/2005	XX	GW205B00C	894	6.94	5.6	4.64	414.69	419.33		1.1	0.2					
8/4/2005	XX	GW205B024	335	7.05	6.8	7.48	411.85	419.33	17.75	0.7	1.1					
10/27/2005	XX	GW205B03G	922	6.82	9.4	4.21	415.12	419.33		0.6	0.5					
5/9/2006	XX	GW205B08C	670	7.08	5.8		414.05			1.4	0.67					
7/25/2006	XX	GW205B070	302	7.16	11		412.96		17.58	1.7	0.7					
10/19/2006	XX	GW205B058	212	7.25	10.4		413.83			0.1	0.8					
5/14/2007	XX	GW205B0A4	600	7.06	5.4		413.12			0.4	0.5					
8/16/2007	XX	GW205B0BH	633	7.1	9.9		410.86		17.75	0.5	1.3					
10/25/2007	XX	GW205B0D9	389	7.26	9.9		413.39			0.5	0.6					
5/27/2008	XX	GW205B0FH	599	7.42	6.2		412.66			0.1	0.6					
8/12/2008	XX	GW205B0HH	614	7.13	11.1		414.33			0.3	0.8					
10/16/2008	XX	GW205B0J5	339	7.35	10.2		414.33			0.6	0.5					
5/4/2009	XX	GW205B115	525	7.15	6.4	5.63	413.7	419.33		0.4	0.5					
8/5/2009	XX	GW205B135	563	7.08	12	4.75	414.58	419.33		0.2	0.5					
10/20/2009	XX	GW205B14D	340	7.35	8.9	6.43	412.9	419.33		0.1	0.7					
5/26/2010	XX	GW205B16E	411	7.23	10.1		411.83			0.56	0.4					

SUMMARY REPORT

Field Parameters

(205B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
8/3/2010	XX	GW205B18F	472	7.05	11.2		409.93			0.5	0.74					
10/13/2010	XX	GW205B1A3	352	7.03	10.2		413.03			0.42	0.25					
5/17/2011	XX	GW205B1E2	473	7.2	6	4.65	414.68	419.33	17.56	0.6	0.6					
8/9/2011	XX	GW205B1FD	225	7	15.7	8.64	410.69	419.33	17.57	2	1.1					
11/3/2011	XX	GW205B1H4	277	6.9	11.2	5.93	413.4	419.33	17.76	1	0.3					
5/16/2012	XX	GW205B1I1	345	7.4	10.9	4.81	414.52	419.33	17.55	1	0.3					
8/16/2012	XX	GW205B20B	247	7	14.5	9.67	409.66	419.33		2	1.5					
10/30/2012	XX	GW205B225	417	7.1	12.8	5.56	413.77	419.33	17.78	0.6	0					
5/20/2013	XX	GW205B23J	257	7.4	9.5	6.78	412.55	419.33		1	0.5					
7/23/2013	XX	GW205B25D	281	7.4	12.6	8.28	411.05	419.33		1	0.8					
10/2/2013	XX	GW205B277	260	7.5	13.7	6.95	412.38	419.33	17.76	1	0.3					
6/3/2014	XX	GW205B291	408	7.1	11	6.95	412.38	419.33		1	0.4					
8/19/2014	XX	GW205B2AF	324	7.1	11.8	8.81	410.52	419.33		1	0.2					
11/12/2014	XX	GW205B2C9	330	7.2	8.9	5.36	413.97	419.33	17.72	1	0.2					
6/2/2015	XX	GW205B2E5	259	7.3	6.1	5.53	413.8	419.33		1	0.2					
9/2/2015	XX	GW205B2G0	192	7.1	13.6	7.47	411.86	419.33		0.2	0.1					
11/3/2015	XX	GW205B2HE	298	7.3	9.3	5.31	414.02	419.33	17.75	2	0.1					
6/14/2016	XX	GW205B314	228	7.4	8.3	7	412.33	419.33		0.5	1.5					
9/21/2016	XX	GW205B321	201	7.2	12.3	10.96	408.37	419.33		0.3	0.3					
11/9/2016	XX	GW205B34C	178	7	10.1	9.75	409.58	419.33	17.76	0.4	0.1					
6/13/2017	XX	GW205B367	305	7.4	10.4	6.85	412.48	419.33		0.5	1.1					
8/30/2017	XX	GW205B381	203	7.2	10.9	10.01	409.32	419.33		1	0.2					
11/16/2017	XX	GW205B39F	389	7.6	9.1	5.95	413.38	419.33	17.76	0.4	0.4					
6/19/2018	XX	GW205B3BA	288	7.4	8.8	8.01	411.32	419.33		1.5	2.1					
8/14/2018	XX	GW205B3DJ	256	7.1	12.6	7.66	411.67	419.33		0.9	0.3					
11/27/2018	XX	GW205B3EI	439	8	7.2	5.58	413.75	419.33	17.76	3.6	0.5					
6/4/2019	XX	GW205B3GD	467	7.4	7.8	5.96	413.37	419.33		2.1	0.3					
8/13/2019	XX	GW205B3J2	190	7.2	13.1	8.78	410.55	419.33		4.4	0.5					
10/23/2019	XX	GW205B401	369	7.9	9.7	7.83	411.5	419.33		0.5	0.3					
6/16/2020	XX	GW205B41G	232	7.4	8.9	8.02	411.31	419.33		0.5	0.2					
8/5/2020	XX	GW205B445	204	7	14.1	10.28	409.05	419.33		0.9	0.2					
10/20/2020	XX	GW205B454	185	7.5	10.5	6.02	413.31	419.33	17.8	1	0.4					
6/23/2021	XX	GW205B46J	228	7.2	8.7	8.92	410.41	419.33		0.8	0.2					
9/22/2021	XX	GW205B48E	247	6.9	12.8	7.92	411.41	419.33	18.93	0.3	0.1					
206A																
4/27/2000	XX	206AXX36643	1291	6.17	3		404.16									
8/2/2000	XX	206AXX36740	2590	6.83	6		397.58		31.23	0.45	0.4					
10/25/2000	XX	206AXX36824	3130	6.84	7		395.14			0.4	0.8					
5/8/2001	XX	206AXX37019	2350	6.69	8		401.83			0.5	0.6					
7/25/2001	XX	206AXX37097	2910	6.71	9.2		395.73		31.21	0.5	0.39					
10/17/2001	XX	206AXX37181	3480	6.7	9.8		393.13			0.8	1.37					
5/16/2002	XX	206AXX37392	1802	6.71	6.4		401.65			1.3	0.62					
8/1/2002	XX	206AXX37469	2230	6.66	9.6		397.81		31.04	0.5	1					
10/17/2002	XX	206AXX37546	3440	6.81	8.2		394.71			5	1.7					
6/19/2003	XX	206AXX37791	2380	6.7	7.5		400.49			0.3	1.3					
8/18/2003	XX	206AXX37851	2350	6.76	8.4		398.37		31.24	0.6	0.64					
10/13/2003	XX	206AXX37907	2510	6.8	9		399.09			0.9	0.34					
4/29/2004	XX	206AXX38106	2390	6.75	5.6		400.6			2.7	0.96					
8/16/2004	XX	206AXX38215	2940	6.65	8.5		397.39		31.21	1	1.34					

SUMMARY REPORT

Field Parameters

(206A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
10/12/2004	XX	206AXX38272	2650	6.81	8		397.08			2.2	1.66						
5/17/2005	XX	GW206A00D	1950	6.66	6.4	13.48	401.83	415.31		1.6	0.4						
8/15/2005	XX	GW206A025	2580	6.66	5.2	18.1	397.21	415.31	31.22	0.7	1.1						
10/24/2005	XX	GW206A03H	2270	6.69	5	13.35	401.96	415.31		1.3	0.4						
5/11/2006	XX	GW206A08D	2160	6.68	7		400.46			2	0.84						
7/26/2006	XX	GW206A071	2200	6.68	9.5		398.96		31.06	1.5	1.2						
10/23/2006	XX	GW206A059	2250	6.69	8.8		400.1			0.5	1						
5/14/2007	XX	GW206A0A5	2000	6.6	7		400.55			0.3	0.7						
8/16/2007	XX	GW206A0BI	2600	6.7	8.6		396.58		31.22	0.2	1.3						
10/29/2007	XX	GW206A0DA	2670	6.71	7.2		398.48			2.8	0.6						
5/27/2008	XX	GW206A0FI	1938	6.73	6.6		399.1			0.1	1						
8/13/2008	XX	GW206A0HI	1621	6.62	9.1		400.77			0.1	0.6						
10/20/2008	XX	GW206A0J6	2090	6.49	7.3		400.77			0.4	0.7						
5/5/2009	XX	GW206A116	1884	6.62	6	14.65	400.66	415.31		0.2	0.7						
8/6/2009	XX	GW206A136	1531	6.04	10.2	12.71	402.6	415.31		1	1.5						
10/21/2009	XX	GW206A14E	2230	6.43	8.2	17.36	397.95	415.31		0.1	0.9						
5/27/2010	XX	GW206A16F	1284	6.43	7.5		397.82			1.03	0.35						
8/3/2010	XX	GW206A18G	2180	6.55	10.1		396.77			0.53	0.94						
10/13/2010	XX	GW206A1A4	1941	6.63	8.7		397.62			0.28	0.94						
5/17/2011	XX	GW206A1E3	1422	6.6	6.3	11.39	403.92	415.31	31.07	0.6	0.5						
8/9/2011	XX	GW206A1FE	2569	6.49	13.3	18.47	396.84	415.31	31.08	1	0.6						
11/3/2011	XX	GW206A1H5	2004	6.6	9.4	15.34	399.97	415.31	31.24	1	0.3						
5/16/2012	XX	GW206A1IJ	1570	6.7	10.5	12.96	402.35	415.31	31.06	0.4	1.2						
8/15/2012	XX	GW206A20C	2144	6.3	16.1	18.32	396.99	415.31		1	0.3						
10/30/2012	XX	GW206A226	630	6.5	12.2	15.26	400.05	415.31	31.26	1	0						
5/20/2013	XX	GW206A240	1734	6.7	9.3	16.5	398.81	415.31		0.6	0.4						
7/23/2013	XX	GW206A25E	1073	6.5	14	16.94	398.37	415.31		1	0.7						
10/2/2013	XX	GW206A278	2060	6.9	13.6	16.85	398.46	415.31	31.27	0.4	0.6						
6/3/2014	XX	GW206A292	811	6.1	10.4	15.43	399.88	415.31		0.6	0.8						
8/20/2014	XX	GW206A2AG	1880	6.9	10.6	18.53	396.78	415.31		1	0.4						
11/11/2014	XX	GW206A2CA	210	6.5	8.7	14.8	400.51	415.31	31.2	0.8	0.5						
6/2/2015	XX	GW206A2E6	1845	6.6	5.8	14.35	400.96	415.31		0.7	0.2						
9/2/2015	XX	GW206A2G1	2167	6.6	13	18.41	396.9	415.31		1.6	0.3						
11/3/2015	XX	GW206A2HF	358	6.4	7.9	14.48	400.83	415.31	31.25	0.5	0.2						
6/15/2016	XX	GW206A315	1858	6.5	10.1	17.31	398	415.31		0.4	1.1						
9/21/2016	XX	GW206A32J	2428	6.6	10.5	21.75	393.56	415.31		2.2	0.3						
11/9/2016	XX	GW206A34D	2645	6.6	8.4	22.3	393.01	415.31	31.24	0.3	0.2						
6/13/2017	XX	GW206A368	1659	6.6	10.6	14.99	400.32	415.31		2.1	2.1						
8/30/2017	XX	GW206A382	2540	6.7	8.3	18.6	396.71	415.31		1.8	0.2						
11/15/2017	XX	GW206A39G	2570	6.6	7.7	16.16	399.15	415.31	31.24	0.7	0.4						
6/19/2018	XX	GW206A3BB	2159	6.7	8.2	16.75	398.56	415.31		0.3	1.1						
8/14/2018	XX	GW206A3E0	2688	6.7	10	18.28	397.03	415.31		0.4	0.5						
11/27/2018	XX	GW206A3EJ	1731	6.7	7.6	14.75	400.56	415.31	31.24	0.2	0.5						
6/4/2019	XX	GW206A3GE	470	6.7	8.4	13.2	402.11	415.31		2.1	0.5						
8/13/2019	XX	GW206A3J3	2125	6.7	12.1	17.72	397.59	415.31		5.1	0.5						
10/23/2019	XX	GW206A402	2490	6.9	8.2	13.75	401.56	415.31		0.5	0.4						
6/16/2020	XX	GW206A41H	1335	6.6	8.2	16.73	398.58	415.31		1.1	0.3						
8/5/2020	XX	GW206A446	1593	6.5	13.9	19.18	396.13	415.31		0.7	0.2						
10/20/2020	XX	GW206A455	2270	6.7	9.1	21.25	394.06	415.31	31.3	1.3	0.3						
6/23/2021	XX	GW206A470	1881	6.8	7.9	17.29	398.02	415.31		3.2	0.2						

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FOR: Dolby Landfill

SUMMARY REPORT

Field Parameters

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(206A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
9/22/2021	XX	GW206A48F	2272	6.6	10.3	20.23	395.08	415.31	31.68	0.6	0.1					
206B																
4/27/2000	XX	206BXX36643	75	6.83	3.6		405.17									
8/2/2000	XX	206BXX36740	D	D	D				18.69							
10/25/2000	XX	206BXX36824	D	D	D											
5/8/2001	XX	206BXX37019	96.1	5.26	9.2		402.21			9.7	4					
7/25/2001	XX	206BXX37097	D	D	D				18.66	D	D					
10/17/2001	XX	206BXX37181	D	D	D					D	D					
5/16/2002	XX	206BXX37392	157	6.35	6		401.91			4.5	2.33					
7/29/2002	XX	206BXX37466	D	D	D				18.69	D	D					
10/15/2002	XX	206BXX37544	D	D	D					D	D					
6/17/2003	XX	206BXX37789	207	6.27	7.2		400.7			4	2.7					
8/18/2003	XX	206BXX37851	171.6	6.12	9.7		399.01		18.67	4.3	2.58					
10/13/2003	XX	206BXX37907	116.7	6.19	10.2		399.6			8.6	1.88					
4/29/2004	XX	206BXX38106	194.4	6.18	5		400.96			3.9	1.94					
8/16/2004	XX	206BXX38215	D	D	D				18.68	D	D					
10/12/2004	XX	206BXX38272	D	D	D					D	D					
5/17/2005	XX	GW206B00E	167	6.11	6.2	13.04	402.23	415.27		5.2	1.47					
8/15/2005	XX	GW206B026	D	D	D	D			18.68	D	D					
10/24/2005	XX	GW206B03I	84.8	6.25	6.8	12.38	402.89	415.27		9.8	1.2					
5/11/2006	XX	GW206B08E	134.9	6.65	6.1		400.82			6.6	2.17					
7/26/2006	XX	GW206B072	174	6.13	10.5		399.22		18.51	4.6	7.3					
10/23/2006	XX	GW206B05A	102	6.32	10.1		401.36			8.3	7.4					
5/14/2007	XX	GW206B0A6	173	6.41	7.3		400.85			5	3.4					
8/16/2007	XX	GW206B0BJ	D	D	D		D		18.64	D	D					
10/29/2007	XX	GW206B0DB	D	D	D		D			D	D					
5/27/2008	XX	GW206B0FJ	D	D	D		D			D	D					
8/13/2008	XX	GW206B0HJ	182	6.01	10.6		401.13			4	2.5					
10/20/2008	XX	GW206B0J7	D	D	D		D			D	D					
5/5/2009	XX	GW206B117	185	6.06	5.7	14.36	400.91	415.27		3	1.4					
8/6/2009	XX	GW206B137	127	5.46	11.4	11.84	403.43	415.27		5.9	1.5					
10/21/2009	XX	GW206B14F	199	6.33	9.3	16.65	398.62	415.27		4	2					
5/27/2010	XX	GW206B16G	D	D	D		398.45			D	D					
8/3/2010	XX	GW206B18H	D	D	D					D	D					
10/13/2010	XX	GW206B1A5	104	6.4	10.2		398.98			7.97	3.81					
5/17/2011	XX	GW206B1E4	61	6.2	5.8	9.75	405.52	415.27	18.54	6	1.3					
8/9/2011	XX	GW206B1FF	D	D	D	17.95	397.32	415.27	18.52	D	D					
11/4/2011	XX	GW206B1H6	182	6.2	8.7	15.21	400.06	415.27	18.71	2	0.5					
5/16/2012	XX	GW206B1J0	98	6.2	9.7	12.29	402.98	415.27	18.48	5	0.3					
8/15/2012	XX	GW206B20D	I	I	I	17.72	397.55	415.27		I	I					
10/30/2012	XX	GW206B227	143	6.2	12.5	14.85	400.42	415.27	18.72	5	0					
5/20/2013	XX	GW206B241	178	6.9	7.4	16.2	399.07	415.27		5	1.1					
7/24/2013	XX	GW206B25F	196	6.2	14.1	16.31	398.96	415.27		5	0.5					
10/2/2013	XX	GW206B279	165	6.6	14.4	16.24	399.03	415.27	18.74	5	0.3					
6/3/2014	XX	GW206B293	189	7.2	10.9	15.15	400.12	415.27		4	0.8					
8/20/2014	XX	GW206B2AH	D	D	D	D	D	415.27		D	D					
11/11/2014	XX	GW206B2CB	91	6.4	9.2	13.36	401.91	415.27	18.66	2	0.3					
6/2/2015	XX	GW206B2E7	120	7.1	5.4	13.7	401.57	415.27		7.9	0.05 U					
9/2/2015	XX	GW206B2G2	I	I	I	I		415.27		I	I					

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Field Parameters

(206B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
11/3/2015	XX	GW206B2HG	90	6.4	9.1	13.6	401.67	415.27	18.71	8	0.3					
6/15/2016	XX	GW206B316	166	7	8.4	16.8	398.47	415.27		5	12.2					
9/21/2016	XX	GW206B330	D	D	D	D	D	D		D	D					
11/9/2016	XX	GW206B34E	D	D	D	D	D	D	18.7	D	D					
6/13/2017	XX	GW206B369	176	7.1	9.9	15.15	400.12	415.27		7.1	1.9					
8/30/2017	XX	GW206B383	I	I	I	I	I	415.27		I	I					
11/15/2017	XX	GW206B39H	260	7.3	8.6	15.95	399.32	415.27	18.7	6.8	0.8					
6/19/2018	XX	GW206B3BC	260	7.2	7.8	16.6	398.67	415.27		3.5	6.5					
8/14/2018	XX	GW206B3E1	I	I	I	I	I	415.27		I	I					
11/27/2018	XX	GW206B3F0	106	7.7	7.5	14.45	400.82	415.27	18.7	8.1	0.8					
6/4/2019	XX	GW206B3GF	146	7.2	7.3	12.74	402.53	415.27		10.6	0.8					
8/13/2019	XX	GW206B3J4	191	6.8	11.8	17.1	398.17	415.27		10.7	2.5					
10/23/2019	XX	GW206B403	D	D	D	D	D	415.27		D	D					
6/16/2020	XX	GW206B41I	179	6.6	8.8	16.42	398.85	415.27		5.1	1.6					
8/5/2020	XX	GW206B447	I	I	I	I	I	415.27		I	I					
10/22/2020	XX	GW206B456	D	D	D	D	D	415.27	18.76	D	D					
6/23/2021	XX	GW206B471	215	7	7.5	16.82	398.45	415.27		6.8	0.6					
9/22/2021	XX	GW206B48G	D	D	D	D	D	415.27	18.7	D	D					
301																
5/3/2000	XX	301XX36649	348	7.07	3.9		347.49									
8/9/2000	XX	301XX36747	338	6.55	8		346.65		17.46	0.38	1.5					
11/8/2000	XX	301XX36838	362	6.9	8		347.04			3.02	0.4					
5/16/2001	XX	301XX37027	434	6.59	5.6		347.31			0.6	0.2					
7/31/2001	XX	301XX37103	416	6.53	11.6		345.5		17.42	0.7	0.4					
10/23/2001	XX	301XX37187	494	6.72	9.7		346.53			0.8	0.2					
5/21/2002	XX	301XX37397	505	6.68	6.6		347.51			0.9	0.1					
8/2/2002	XX	301XX37470	526	6.34	11.5		346.48		17.42	0.2	0.3					
10/23/2002	XX	301XX37552	554	6.6	9.7		346.96			0.5	0.3					
6/24/2003	XX	301XX37796	603	6.52	7.5		347.03			0.3	0.2					
8/12/2003	XX	301XX37845	596	6.34	11.6		347.12		17.48	0.3	0.87					
10/16/2003	XX	301XX37910	641	6.47	10		347.68			0.5	0.1					
5/5/2004	XX	301XX38112	663	6.56	4.5		347.79			0.8	0.33					
8/9/2004	XX	301XX38208	634	6.28	10.3		346.67		17.44	1.1	0.52					
10/20/2004	XX	301XX38280	666	6.53	9.3		346.93			0.7	0.39					
5/11/2005	XX	GW301X00F	672	6.47	5.7	3.54	347.8	351.34		0.5	0.3					
7/27/2005	XX	GW301X027	701	6.48	10.5	4.9	346.44	351.34	17.44	2	0.5					
11/7/2005	XX	GW301X03J	755	6.47	9.4	3.46	347.88	351.34		0.5	0.4					
5/1/2006	XX	GW301X08F	792	6.65	4.5		346.99			0.6	0.41					
7/31/2006	XX	GW301X073	841	6.43	12		347.03		17.26	0.3	0.7					
10/26/2006	XX	GW301X05B	881	6.57	9.1		347.74			0.1	0.4					
5/9/2007	XX	GW301X0A7	868	6.59	5.3		347.5			0.2	0.5					
8/9/2007	XX	GW301X0C0	990	6.53	10.4		346.31		17.46	0.2	0.6					
10/30/2007	XX	GW301X0DC	1185	6.56	9.1		347.29			0.6	0.6					
6/3/2008	XX	GW301X0G0	1226	6.49	6.2		347.4			0.1	0.1					
8/14/2008	XX	GW301X0I0	1245	6.32	10.6		347.79			0.1	0.7					
10/21/2008	XX	GW301X0J8	1249	6.37	9.1		347.79			0.1	0.5					
5/11/2009	XX	GW301X118	1256	6.32	5.7	3.7	347.64	351.34		0.4	0.5					
8/10/2009	XX	GW301X138	1272	5.98	10.8	4.05	347.29	351.34		0.1	0.7					
10/22/2009	XX	GW301X14G	1354	6.38	8.5	4.36	346.98	351.34		0.1	0.4					

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Field Parameters

(301)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
6/1/2010	XX	GW301X16H	1319	6.47	7.4		346.53			0.1	0.6					
8/5/2010	XX	GW301X18I	1369	6.29	12.2		345.33			0.18	0.43					
10/18/2010	XX	GW301X1A6	1433	6.22	9.6		347.28			0.1	0.14					
5/18/2011	XX	GW301X1D9	1265	6.3	6.3	3.55	347.79	351.34	17.35	0.8	0					
8/9/2011	XX	GW301X1F0	1534	6.21	13.5	5.11	346.23	351.34	17.3	2	0.3					
11/2/2011	XX	GW301X1GB	1353	6.4	9.1	3.88	347.46	351.34	17.48	2	0.2					
5/15/2012	XX	GW301X1I5	1321	6.4	8.5	3.61	347.73	351.34	17.27	1	0					
8/14/2012	XX	GW301X1JI	980	5.9	14.5	5.52	345.82	351.34		1	0.9					
10/30/2012	XX	GW301X21C	1470	6.6	11.5	3.83	347.51	351.34	17.5	1	0					
5/22/2013	XX	GW301X236	1594	6.4	6.3	3.95	347.39	351.34		1	0.6					
7/25/2013	XX	GW301X250	1600	6	11.8	4.66	346.68	351.34		2	0.6					
10/1/2013	XX	GW301X26E	1464	6.6	11.6	4.51	346.83	351.34	17.48	1	0.4					
6/4/2014	XX	GW301X288	1590	6.6	7.8	4.4	346.94	351.34		1	0.3					
8/20/2014	XX	GW301X2A2	1693	6.8	12.4	4.95	346.39	351.34		1	0.2					
11/11/2014	XX	GW301X2BG	1715	6.8	6.2	3.75	347.59	351.34	17.45	1	0.2					
6/3/2015	XX	GW301X2DC	1883	6.3	6.4	3.75	347.59	351.34		1	0.05 U					
9/1/2015	XX	GW301X2F7	1750	6.4	12.1	4.52	346.82	351.34		1	0.05 U					
11/4/2015	XX	GW301X2H1	1739	6.4	8	3.76	347.58	351.34	17.46	0.7	0.2					
6/15/2016	XX	GW301X30B	1785	6.3	9.5	4.26	347.08	351.34		0.4	0.6					
9/20/2016	XX	GW301X325	1990	6.3	12.6	5.41	345.93	351.34		1.6	0.2					
11/10/2016	XX	GW301X33J	1992	6.6	8	4.57	346.77	351.34	17.48	0.3	0.1					
6/14/2017	XX	GW301X35E	1820	6.4	7.7	4.5	346.84	351.34		3	0.7					
8/29/2017	XX	GW301X378	1891	6.5	9.8	5.89	345.45	351.34		0.2	0.3					
11/14/2017	XX	GW301X392	1882	6.4	8.8	4.1	347.24	351.34	17.48	1.7	0.3					
6/19/2018	XX	GW301X3AH	2041	6.5	8.5	4.8	346.54	351.34		0.2	0.7					
8/14/2018	XX	GW301X3D6	2114	6.4	12.5	4.79	346.55	351.34		2.9	0.2					
11/28/2018	XX	GW301X3E5	2156	6.7	7.5	3.76	347.58	351.34	17.48	0.6	0.3					
6/5/2019	XX	GW301X3G0	1896	6.6	6.8	4.19	347.15	351.34		1.1	0.2					
8/13/2019	XX	GW301X3I9	1867	6.6	11	4.85	346.49	351.34		2.5	0.5					
10/23/2019	XX	GW301X3J8	1803	6.8	9.3	4.28	347.06	351.34		0.3	0.2					
6/16/2020	XX	GW301X413	1587	6.5	7.8	4.98	346.36	351.34		0.5	0.1					
8/4/2020	XX	GW301X43C	1561	6.5	12.3	6.35	344.99	351.34		0.9	0.2					
10/21/2020	XX	GW301X44B	1612	6.7	9.1	4.14	347.2	351.34	17.52	0.9	0.3					
6/22/2021	XX	GW301X466	1501	6.5	11.6	5.26	346.08	351.34		0.6	0.2					
9/22/2021	XX	GW301X481	1581	6.6	11.8	4.52	346.82	351.34	17.9	0.3	0.2					
302B																
5/3/2000	XX	302BXX36649	345	6.15	5		348.95									
8/9/2000	XX	302BXX36747	121	6.14	6		346.58		28.04	0.37	0.4					
11/8/2000	XX	302BXX36838	405	6.04	8		347.59			0.6	0.1					
5/16/2001	XX	302BXX37027	625	6.08	6.1		347.76			0.5	0.1					
7/31/2001	XX	302BXX37103	436	5.97	10.6		345.39		28.12	0.9	0.2					
10/23/2001	XX	302BXX37187	470	5.8	9.6		347.08			1.4	0.3					
5/21/2002	XX	302BXX37397	623	6.13	6.9		348.71			1.5	0.1					
8/7/2002	XX	302BXX37475	602	6.08	10.2		346.34		28.12	0.5	0.2					
10/23/2002	XX	302BXX37552	655	6.18	8.7		347.82			0.5	0.8					
6/23/2003	XX	302BXX37795	912	6.04	8.5		347.68			0.4	0.3					
8/12/2003	XX	302BXX37845	862	6.25	10.8		348.1		28.16	0.5	0.44					
10/20/2003	XX	302BXX37914	970	6.26	8.8		348.74			0.6	0.29					
5/4/2004	XX	302BXX38111	1055	6.21	5.7		348.91			1.3	0.25					

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Field Parameters

(302B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
8/5/2004	XX	302BXX38204	838	6.13	11.2		347.35		28.1	1.2	0.15						
10/20/2004	XX	302BXX38280	898	6.13	8.9		347.33			1	0.19						
5/11/2005	XX	GW302B00G	943	6.07	8.1	4.98	349.18	354.16		0.7	0.2						
7/27/2005	XX	GW302B028	906	6.24	10	7.69	346.47	354.16	28.09	1.1	0.3						
11/7/2005	XX	GW302B040	1010	6.14	10.1	5.2	348.96	354.16		1.2	0.4						
5/1/2006	XX	GW302B08G	1067	6.23	5.6		348.42			0.6	0.38						
7/31/2006	XX	GW302B074	1119	6.13	10.2		347.79		27.91	1.2	0.5						
10/25/2006	XX	GW302B05C	1000	6.31	9.1		349.01			0.1	0.3						
5/9/2007	XX	GW302B0A8	994	6.23	6.1		348.73			0.3	0.3						
8/9/2007	XX	GW302B0C1	936	6.28	8.9		346.47		28.12	0.5	0.4						
10/30/2007	XX	GW302B0DD	1029	6.37	8.2		348.18			1	0.5						
6/2/2008	XX	GW302B0G1	1087	6.13	6.7		347.77			0.1	0.3						
8/14/2008	XX	GW302B0I1	1150	6.03	10.5		349.51			0.1	0.4						
10/21/2008	XX	GW302B0J9	1084	6.16	8.5		349.51			0.3	0.4						
5/11/2009	XX	GW302B119	1149	6.02	6.7	5.04	349.12	354.16		0.8	0.3						
8/10/2009	XX	GW302B139	1111	5.77	10.8	5.82	348.34	354.16		0.3	0.4						
10/22/2009	XX	GW302B14H	1097	6.01	8.4	6.5	347.66	354.16		0.1	0.5						
6/1/2010	XX	GW302B16I	1134	6.45	7.4		346.41			0.61	0.19						
8/4/2010	XX	GW302B18J	1113	6.4	11.1		345.45			0.45	0.37						
10/14/2010	XX	GW302B1A7	1164	6.28	9.3		348.08			0.16	0.34						
5/18/2011	XX	GW302B1DA	1019	6.3	9.8	4.62	349.54	354.16	28.01	1	0						
8/8/2011	XX	GW302B1F1	1096	6.2	14.8	7.77	346.39	354.16	27.95	1	0						
11/1/2011	XX	GW302B1GC	1262	8.9	8.9	5.66	348.5	354.16	28.12	1	0.2						
5/15/2012	XX	GW302B1I6	1341	6.3	11.1	4.86	349.3	354.16	27.9	0.6	0.2						
8/16/2012	XX	GW302B1JJ	1219	6.3	14.2	8.54	345.62	354.16		2	0.3						
10/30/2012	XX	GW302B21D	1282	6.4	13.2	5.55	348.61	354.16	28.14	0.8	0						
5/21/2013	XX	GW302B237	1445	6.4	8.8	6.2	347.96	354.16		2	0.5						
7/25/2013	XX	GW302B251	1483	6.2	11	7.09	347.07	354.16		2	0.3						
10/1/2013	XX	GW302B26F	1464	6.7	13.4	6.9	347.26	354.16	28.15	0.8	0.3						
6/3/2014	XX	GW302B289	1384	6.4	10.2	6.72	347.44	354.16		2	0.4						
8/20/2014	XX	GW302B2A3	1347	6.9	13	7.51	346.65	354.16		1	0.6						
11/11/2014	XX	GW302B2BH	1314	6.6	6.1	5.4	348.76	354.16	28.05	1	0.2						
6/3/2015	XX	GW302B2DD	1582	6.5	6.4	5.32	348.84	354.16		0.6	0.3						
9/1/2015	XX	GW302B2F8	1416	6.5	11.2	6.89	347.27	354.16		1.2	0.3						
11/4/2015	XX	GW302B2H2	1381	6.5	8.4	5.42	348.74	354.16	28.12	1	0.5						
6/15/2016	XX	GW302B30C	1563	6.3	9	6.59	347.57	354.16		0.6	0.8						
9/21/2016	XX	GW302B326	1479	6.5	12.1	8.2	345.96	354.16		0.7	0.6						
11/8/2016	XX	GW302B340	1349	6.6	5.8	6.91	347.25	354.16	28.1	1.2	0.2						
6/13/2017	XX	GW302B35F	1419	6.5	13.2	6.69	347.47	354.16		4	1.8						
8/29/2017	XX	GW302B379	1503	6.5	9.8	8.8	345.36	354.16		0.6	0.4						
11/14/2017	XX	GW302B393	1419	6.7	7.6	6.13	348.03	354.16	28.14	1.4	0.5						
6/19/2018	XX	GW302B3AI	1680	6.7	10.4	7.73	346.43	354.16		1.4	0.8						
8/14/2018	XX	GW302B3D7	1657	6.5	9.6	7.03	347.13	354.16		1.2	0.6						
11/28/2018	XX	GW302B3E6	1709	6.9	7.5	5.7	348.46	354.16	28.14	1.4	0.5						
6/5/2019	XX	GW302B3G1	1591	6.6	8.5	6.04	348.12	354.16		12.5	0.4						
8/13/2019	XX	GW302B3IA	1653	6.6	14.3	7.46	346.7	354.16		6	0.8						
10/23/2019	XX	GW302B3J9	1560	6.7	8.6	6.72	347.44	354.16		0.5	0.5						
6/17/2020	XX	GW302B414	1518	6	9.9	7.61	346.55	354.16		0.8	0.8						
8/5/2020	XX	GW302B43D	1476	6.5	13.5	8.66	345.5	354.16		0.8	0.6						
10/21/2020	XX	GW302B44C	1401	6.7	7.9	5.52	348.64	354.16	28.18	2.3	0.8						

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Field Parameters

(302B)			Specific Conductance	pH	Temperature	Water Level	Water Level	Water Level	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
6/22/2021	XX	GW302B467	1574	6.5	11.6	8.03	346.13	354.16		0.7	0.4					
9/22/2021	XX	GW302B482	1582	6.5	12.2	6.69	347.47	354.16	27.45	0.9	0.8					
302C																
5/3/2000	XX	302CXX36649	292	5.91	4.5		347.84									
8/9/2000	XX	302CXX36747	362	5.9	8		345.52		14.21	0.39	0.7					
11/8/2000	XX	302CXX36838	402	6.07	8		346.58			0.46	0.2					
5/16/2001	XX	302CXX37027	507	5.85	5.8		346.81			0.5	0.2					
7/31/2001	XX	302CXX37103	453	5.93	10.6		344.12		14.23	0.8	0.3					
10/23/2001	XX	302CXX37187	504	5.93	10.1		345.88			0.9	0.2					
5/21/2002	XX	302CXX37397	453	5.92	6.7		347.54			2.3	0.1					
8/7/2002	XX	302CXX37475	754	5.92	10.6		345.13		14.23	0.4	1.2					
10/23/2002	XX	302CXX37552	796	6.16	9.4		346.75			1.3	0.3					
6/23/2003	XX	302CXX37795	796	5.9	8.4		346.66			0.4	0.9					
8/12/2003	XX	302CXX37845	1000	5.99	12.2		346.92		14.19	0.6	0.23					
10/20/2003	XX	302CXX37914	801	5.88	10.9		347.51			0.8	0.29					
5/4/2004	XX	302CXX38111	898	6.03	5.2		348.13			1.1	0.28					
8/5/2004	XX	302CXX38204	868	6.05	11.2		346.16		14.23	1	0.24					
10/20/2004	XX	302CXX38280	823	6.02	10.3		346.11			0.9	0.19					
5/11/2005	XX	GW302C00H	812	5.95	6.8	5.16	348.05	353.21		0.6	0.3					
7/27/2005	XX	GW302C029	967	6.08	10.9	7.94	345.27	353.21	14.25	2.7	0.5					
11/7/2005	XX	GW302C041	954	5.96	10.3	5.39	347.82	353.21		0.7	0.3					
5/1/2006	XX	GW302C08H	1023	6.07	5.3		347.27			0.9	0.3					
7/31/2006	XX	GW302C075	1108	6.15	11.6		346.61		14.04	1.6	0.2					
10/25/2006	XX	GW302C05D	918	6.15	10.2		347.83			0.1	0.4					
5/9/2007	XX	GW302C0A9	935	6.17	5.8		347.59			0.1	0.4					
8/9/2007	XX	GW302C0C2	974	6.25	10.2		345.26		14.22	0.4	0.5					
10/30/2007	XX	GW302C0DE	938	6.33	10		347.02			0.9	0.5					
6/2/2008	XX	GW302C0G2	1150	6.34	6.5		346.57			0.1	0.2					
8/14/2008	XX	GW302C0I2	1088	6.05	11.2		348.39			0.1	0.5					
10/21/2008	XX	GW302C0JA	1022	6.2	9.8		348.39			0.5	0.4					
5/11/2009	XX	GW302C11A	1093	6.13	6	5.21	348	353.21		0.9	0.3					
8/10/2009	XX	GW302C13A	1124	5.71	11.8	6.04	347.17	353.21		0.4	0.3					
10/22/2009	XX	GW302C14I	967	6.41	9.3	6.72	346.49	353.21		0.1	0.4					
6/1/2010	XX	GWXXX17F	1137	6.66	7.7		345.23			0.1	0.36					
8/4/2010	XX	GW302C190	1011	6.36	11.8		344.27			0.47	0.61					
10/14/2010	XX	GW302C1A8	1137	6.3	10.5		346.93			0.1	0.35					
5/18/2011	XX	GW302C1DB	609	6.2	8.8	4.78	348.43	353.21	14.1	1	0					
8/8/2011	XX	GW302C1F2	1200	6.16	12.2	8.03	345.18	353.21	14.03	1	0					
11/1/2011	XX	GW302C1GD	1233	6.3	10.1	5.7	347.51	353.21	14.25	1	0.2					
5/15/2012	XX	GW302C1I7	1040	6.3	9.6	5.05	348.16	353.21	14	1	0					
8/16/2012	XX	GW302C200	1304	6	13	8.68	344.53	353.21		1	0.4					
10/30/2012	XX	GW302C21E	1271	6.6	12.1	5.82	347.39	353.21	14.22	1	0					
5/21/2013	XX	GW302C238	1486	6.4	7.3	6.37	346.84	353.21		1	0.3					
7/25/2013	XX	GW302C252	1504	6.3	11.9	7.19	346.02	353.21		1	0.3					
10/1/2013	XX	GW302C26G	1294	6.6	11.3	6.6	346.61	353.21	14.24	0.8	0.2					
6/3/2014	XX	GW302C28A	1401	6.1	8.7	6.74	346.47	353.21		0.3	0.3					
8/20/2014	XX	GW302C2A4	1134	6.8	12.4	7.6	345.61	353.21		1	0.4					
11/11/2014	XX	GW302C2BI	1327	6.5	7.9	5.4	347.81	353.21	14.18	0.8	0.2					
6/3/2015	XX	GW302C2DE	1563	6.4	6.3	5.33	347.88	353.21		0.4	0.2					

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Field Parameters

(302C)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
9/1/2015	XX	GW302C2F9	1200	6.4	12.9	6.91	346.3	353.21		0.5	0.3					
11/4/2015	XX	GW302C2H3	1349	6.5	8.8	5.45	347.76	353.21	14.22	1	0.5					
6/15/2016	XX	GW302C30D	1565	6.3	8.8	6.7	346.51	353.21		0.2	0.3					
9/21/2016	XX	GW302C327	1253	6.4	13.2	8.2	345.01	353.21		0.6	0.4					
11/8/2016	XX	GW302C341	1323	6.4	8.3	6.93	346.28	353.21	14.18	0.2	0.1					
6/13/2017	XX	GW302C35G	1520	6.4	10.4	6.94	346.27	353.21		0.6	1.2					
8/29/2017	XX	GW302C37A	1311	6.4	11.3	8.91	344.3	353.21		0.4	0.1					
11/14/2017	XX	GW302C394	1440	6.4	9	6.15	347.06	353.21	14.22	1.2	0.3					
6/19/2018	XX	GW302C3AJ	1689	6.5	8.6	7.75	345.46	353.21		0.1	0.3					
8/14/2018	XX	GW302C3D8	1491	6.5	13.8	7.1	346.11	353.21		2.5	0.2					
11/28/2018	XX	GW302C3E7	1793	7.4	7.1	5.7	347.51	353.21	14.22	0.4	0.3					
6/5/2019	XX	GW302C3G2	1483	6.5	7.4	6.31	346.9	353.21		6.6	0.5					
8/13/2019	XX	GW302C3IB	1518	6.5	13.8	7.43	345.78	353.21		4.5	0.3					
10/23/2019	XX	GW302C3JA	1305	6.7	9.7	6.86	346.35	353.21		0.4	0.2					
6/17/2020	XX	GW302C415	1507	6.5	9.5	7.7	345.51	353.21		0.6	0.2					
8/5/2020	XX	GW302C43E	1309	6.4	12.5	8.69	344.52	353.21		0.5	0.2					
10/21/2020	XX	GW302C44D	1465	6.7	9.3	5.58	347.63	353.21	14.26	1.5	0.4					
6/22/2021	XX	GW302C468	1675	6.4	10.8	8.03	345.18	353.21		0.2	0.4					
9/22/2021	XX	GW302C483	1491	6.8	12.5	6.62	346.59	353.21	14.85	0.4	0.3					
303A																
4/27/2000	XX	303AXX36643	1482	6.81	5.5		379.15									
8/2/2000	XX	303AXX36740	1354	6.65	8		375.57		43.58	0.51	2					
10/25/2000	XX	303AXX36824	2070	6.62	9		374			0.5	0.8					
5/9/2001	XX	303AXX37020	2650	6.57	9.4		377.37			0.5	0.3					
7/25/2001	XX	303AXX37097	1808	6.56	12		373.91		43.63	0.6	0.82					
10/17/2001	XX	303AXX37181	2460	6.55	12.1		372.54			0.8	0.46					
5/16/2002	XX	303AXX37392	1837	6.79	7.6		377.36			1.4	1.58					
8/1/2002	XX	303AXX37469	1560	6.48	11.2		374.75		43.57	0.5	0.65					
10/17/2002	XX	303AXX37546	1998	6.56	10.1		373.48			1.9	0.2					
6/23/2003	XX	303AXX37795	1473	6.69	8.2		376.6			0.3	0.5					
8/19/2003	XX	303AXX37852	1611	6.57	9.2		375.49		43.61	0.4	0.63					
10/14/2003	XX	303AXX37908	2040	6.58	8.8		376.34			0.5	0.67					
5/3/2004	XX	303AXX38110	1737	6.59	7.7		377.08			1.2	0.42					
8/17/2004	XX	303AXX38216	1929	6.39	9.7		375.24		43.56	0.6	1.21					
10/19/2004	XX	303AXX38279	2260	6.56	8.4		374.61			0.9	0.31					
5/18/2005	XX	GW303A001	1610	6.65	7.3	11.68	377.97	389.65		0.9	0.5					
8/15/2005	XX	GW303A02A	1093	6.64	6.6	14.77	374.88	389.65	43.57	0.5	0.3					
11/3/2005	XX	GW303A042	1842	6.47	9	11.86	377.79	389.65		1.2	0.5					
5/11/2006	XX	GW303A081	1086	6.42	7.8		377.17			0.8	0.51					
7/26/2006	XX	GW303A076	1065	6.48	10.5		376.84		43.45	1.2	0.6					
10/24/2006	XX	GW303A05E	1410	6.42	9		376.96			0.1	0.6					
5/15/2007	XX	GW303A0AA	1382	6.51	7.3		377.08			0.6	0.6					
8/15/2007	XX	GW303A0C3	1111	6.54	9.2		374.67		43.62	0.22	0.5					
10/29/2007	XX	GW303A0DF	1704	6.57	8.5		375.54			4.9	0.7					
6/2/2008	XX	GW303A0G3	1195	6.68	7.4		376.6			0.1	0.3					
8/13/2008	XX	GW303A0I3	993	6.57	10.4		377.44			0.1	0.6					
10/20/2008	XX	GW303A0JB	1034	6.42	7.5		377.44			0.5	0.8					
5/5/2009	XX	GW303A11B	1296	6.5	7.4	12.24	377.41	389.65		0.47	0.2					
8/6/2009	XX	GW303A13B	994	6.14	10.6	11.4	378.25	389.65		0.13	0.7					

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Field Parameters

(303A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
10/21/2009	XX	GW303A14J	926	6.64	9.1	14.41	375.24	389.65		0.1	0.9					
5/27/2010	XX	GW303A170	919	6.67	8.5		375.48			0.59	0.27					
8/4/2010	XX	GW303A191	1037	6.29	10.6		374.33			0.55	0.64					
10/14/2010	XX	GW303A1A9	1536	6.46	8		374.62			0.28	0.54					
5/17/2011	XX	GW303A1E5	850	6.4	7.4	10.85	378.8	389.65	43.55	0.6	1.1					
8/9/2011	XX	GW303A1FG	724	6.38	13.1	15.22	374.43	389.65	36.11	1	0.2					
11/3/2011	XX	GW303A1H7	1024	6.3	9.8	12.88	376.77	389.65	43.6	1	1.4					
5/17/2012	XX	GW303A1J1	911	6.4	8.7	11.58	378.07	389.65	43.45	0.4	0					
8/15/2012	XX	GW303A20E	856	6.1	15.8	15.08	374.57	389.65		1	0.3					
11/1/2012	XX	GW303A228	1120	6.6	9.4	11.05	378.6	389.65	43.62	0.6	0.4					
5/21/2013	XX	GW303A242	875	6.6	8.4	13.48	376.17	389.65		1	0.4					
7/24/2013	XX	GW303A25G	800	6.3	16	13.89	375.76	389.65		1	0.4					
10/2/2013	XX	GW303A27A	818	6.9	10.8	14.28	375.37	389.65	43.85	0.6	1					
6/3/2014	XX	GW303A294	846	6	9.6	13.01	376.64	389.65		1	0.3					
8/20/2014	XX	GW303A2A1	811	7	12.8	15.24	374.41	389.65		1	0.3					
11/12/2014	XX	GW303A2CC	1007	6.5	7.8	12.49	377.16	389.65	43.55	1	0.2					
6/3/2015	XX	GW303A2E8	834	6.5	6.7	12.02	377.63	389.65		0.7	0.2					
9/1/2015	XX	GW303A2G3	651	6.3	10.1	14.89	374.76	389.65		0.3	0.05 U					
11/3/2015	XX	GW303A2HH	877	6.6	8.1	12.26	377.39	389.65	43.64	0.2	0.3					
6/15/2016	XX	GW303A317	559	6.4	9	14.08	375.57	389.65		0.2	1.1					
9/20/2016	XX	GW303A331	726	6.3	10.7	16.81	372.84	389.65		0.4	0.3					
11/8/2016	XX	GW303A34F	936	6.5	8.5	17.58	372.07	389.65	43.55	0.3	0.2					
6/13/2017	XX	GW303A36A	656	6.5	9.8	12.68	376.97	389.65		0.1	0.7					
8/30/2017	XX	GW303A384	1143	6.9	8.5	15.55	374.1	389.65		0.2	0.2					
11/15/2017	XX	GW303A39I	1028	6.7	7.4	13.25	376.4	389.65	43.55	0.9	0.3					
6/20/2018	XX	GW303A3BD	1276	6.8	8.4	13.93	375.72	389.65		0.1	0.3					
8/15/2018	XX	GW303A3E2	1285	6.7	10.1	14.9	374.75	389.65		0.2	0.2					
11/27/2018	XX	GW303A3F1	1291	6.7	7.8	12.46	377.19	389.65	43.54	0.1	0.2					
6/4/2019	XX	GW303A3GG	830	6.7	7.7	11.76	377.89	389.65		0.1	0.3					
8/14/2019	XX	GW303A3J5	556	6.6	9.7	14.73	374.92	389.65		3.9	0.2					
10/22/2019	XX	GW303A404	771	6.7	7.7	15.9	373.75	389.65		3.5	0.2					
6/16/2020	XX	GW303A41J	622	6.9	7.3	13.96	375.69	389.65		1.2	0.2					
8/4/2020	XX	GW303A448	584	6.5	10	15.78	373.87	389.65		0.5	0.2					
10/20/2020	XX	GW303A457	827	6.8	9	16.07	373.58	389.65	43.62	1.3	0.3					
6/22/2021	XX	GW303A472	596	6.3	10	14.51	375.14	389.65		0.5	0.2					
9/21/2021	XX	GW303A48H	90	7	9.4	15.76	373.89	389.65	43.62	0.4	0.1					
303B																
4/27/2000	XX	303BXX36643	808	6.59	5		381									
8/2/2000	XX	303BXX36740	1355	6.47	9		376.68		26.5	0.31	0.2					
10/25/2000	XX	303BXX36824	2470	6.61	9		374.7			0.5	0.5					
5/9/2001	XX	303BXX37020	1878	6.59	6.8		379.1			0.5	0.9					
7/25/2001	XX	303BXX37097	1905	6.46	11		374.77		26.47	0.6	0.23					
10/17/2001	XX	303BXX37181	2630	6.62	12.5		373.2			1.2	0.18					
5/16/2002	XX	303BXX37392	1226	6.72	6.5		378.69			0.8	0.29					
8/2/2002	XX	303BXX37470	1131	6.42	11.2		376.07		26.5	0.9	0.38					
10/17/2002	XX	303BXX37546	2200	6.64	10.4		374.21			1.1	0.3					
6/23/2003	XX	303BXX37795	1084	6.61	8.1		377.83			0.3	0.6					
8/19/2003	XX	303BXX37852	1601	6.46	10.9		376.86		26.5	0.4	0.53					
10/14/2003	XX	303BXX37908	2190	6.59	11.5		377.66			1.7	0.41					

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Field Parameters

(303B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
5/3/2004	XX	303BXX38110	1378	6.61	7		378.66			2	0.52					
8/17/2004	XX	303BXX38216	1941	6.53	11.6		376.55		26.51	0.8	0.27					
10/19/2004	XX	303BXX38279	2100	6.63	10.6		375.8			0.8	0.24					
5/18/2005	XX	GW303B00J	990	6.7	6.6	9.94	379.68	389.62		0.7	0.6					
8/15/2005	XX	GW303B02B	902	6.4	7.8	13.46	376.16	389.62	26.45	0.6	0.2					
11/3/2005	XX	GW303B043	1604	6.5	10.2	10.11	379.51	389.62		0.6	0.5					
5/11/2006	XX	GW303B08J	986	6.4	6.4		378.74			0.7	0.25					
7/26/2006	XX	GW303B077	869	6.46	12.4		378.1		26.31	1.5	0.6					
10/24/2006	XX	GW303B05F	1489	6.4	10.7		378.31			0.1	0.4					
5/15/2007	XX	GW303B0AB	855	6.6	6.1		378.57			0.3	0.4					
8/15/2007	XX	GW303B0C4	1116	6.41	9.7		375.75		26.5	0.5	0.3					
10/29/2007	XX	GW303B0DG	1832	6.61	9.8		376.76			1.7	0.6					
6/3/2008	XX	GW303B0G4	772	6.79	7.1		377.91			0.1	0.4					
8/13/2008	XX	GW303B0I4	729	6.44	11.3		378.87			0.3	0.4					
10/20/2008	XX	GW303B0JC	990	6.41	9.9		378.87			0.5	0.6					
5/5/2009	XX	GW303B11C	844	6.47	6.2	10.73	378.89	389.62		0.5	0.4					
8/6/2009	XX	GW303B13C	655	6.11	11.2	9.8	379.82	389.62		0.5	0.3					
10/21/2009	XX	GW303B150	859	6.29	10.8	13.23	376.39	389.62		0.2	0.5					
5/27/2010	XX	GW303B171	611	6.6	7.4		376.67			0.67	0.19					
8/4/2010	XX	GW303B192	1061	6.43	10.8		375.3			0.59	0.27					
10/14/2010	XX	GW303B1AA	1350	6.28	9.7		375.73			0.55	0.42					
5/17/2011	XX	GW303B1E6	500	6.4	7.3	8.79	380.83	389.62	26.4	0.8	0.7					
8/9/2011	XX	GW303B1FH	631	6.06	17	13.95	375.67	389.62	26.3	1	0.2					
11/3/2011	XX	GW303B1H8	937	6.4	10.7	11.3	378.32	389.62	26.5	1	0.1					
5/17/2012	XX	GW303B1J2	685	6.4	8.9	9.95	379.67	389.62	26.3	1	0					
8/15/2012	XX	GW303B20F	711	5.9	17.9	13.98	375.64	389.62		1	0.7					
11/1/2012	XX	GW303B229	1205	6.7	10.7	9.35	380.27	389.62	26.5	0.8	0.4					
5/21/2013	XX	GW303B243	570	6.5	7.5	12.08	377.54	389.62		0.8	0.3					
7/24/2013	XX	GW303B25H	536	6.3	15.8	12.59	377.03	389.62		1	0.2					
10/2/2013	XX	GW303B27B	707	6.7	12.7	12.64	376.98	389.62	26.5	0.6	0.4					
6/3/2014	XX	GW303B295	589	6.2	8.4	11.6	378.02	389.62		1	0.3					
8/20/2014	XX	GW303B2AJ	723	6.7	12.6	14.29	375.33	389.62		1	0.3					
11/12/2014	XX	GW303B2CD	1143	6.5	9.1	10.85	378.77	389.62	21.05	1	0.3					
6/3/2015	XX	GW303B2E9	632	6.5	6.2	10.25	379.37	389.62		1	0.1					
9/1/2015	XX	GW303B2G4	559	6.3	11	13.55	376.07	389.62		0.8	0.05 U					
11/3/2015	XX	GW303B2HI	718	6.5	9.3	10.64	378.98	389.62	26.5	0.6	0.2					
6/15/2016	XX	GW303B318	383	6.2	8.7	12.68	376.94	389.62		0.5	0.3					
9/20/2016	XX	GW303B332	851	6.3	12	15.83	373.79	389.62		1.1	0.3					
11/8/2016	XX	GW303B34G	1069	6.3	9.8	16.9	372.72	389.62	26.49	0.3	0.2					
6/13/2017	XX	GW303B36B	413	6.4	8.4	11.11	378.51	389.62		0.2	1.1					
8/30/2017	XX	GW303B385	491	6.4	10.3	14.2	375.42	389.62		0.5	0.1					
11/15/2017	XX	GW303B39J	1023	6.4	8.8	11.69	377.93	389.62	26.49	0.9	0.3					
6/20/2018	XX	GW303B3BE	477	6.6	7.8	12.5	377.12	389.62		0.3	0.3					
8/15/2018	XX	GW303B3E3	586	6.1	10.6	13.4	376.22	389.62		1.7	0.2					
11/27/2018	XX	GW303B3F2	1279	6.8	8.5	10.64	378.98	389.62	26.47	1.3	0.3					
6/4/2019	XX	GW303B3GH	456	6.7	6.7	9.45	380.17	389.62		2.4	0.2					
8/14/2019	XX	GW303B3J6	423	6.4	10.2	13.34	376.28	389.62		4.2	0.3					
10/22/2019	XX	GW303B405	800	6.4	9.1	14.9	374.72	389.62		4.2	0.3					
6/16/2020	XX	GW303B420	455	6.6	6.8	12.42	377.2	389.62		0.9	0.2					
8/4/2020	XX	GW303B449	562	6.3	10.2	14.74	374.88	389.62		0.7	0.2					

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(303B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
10/20/2020	XX	GW303B458	933	6.5	9.6	15.45	374.17	389.62	26.58	1.6	0.2					
6/22/2021	XX	GW303B473	445	6.2	9.6	13	376.62	389.62		0.6	0.2					
9/21/2021	XX	GW303B481	848	6.3	10.8	14.96	374.66	389.62	26.48	0.4	0.2					
304A																
5/3/2000	XX	304AXX36649	380	7.62	5.4		345.36									
8/9/2000	XX	304AXX36747	314	7.86	11		343.2		23.92	0.86	0.6					
11/9/2000	XX	304AXX36839	358	7.91	13		344.4			0.68	0.2					
5/16/2001	XX	304AXX37027	383	7.94	7.4		345.02			0.5	0.1					
7/31/2001	XX	304AXX37103	310	7.71	14.5		341.82		23.92	0.7	0.2					
10/23/2001	XX	304AXX37187	394	7.83	11.9		343.28			0.6	0.1					
5/21/2002	XX	304AXX37397	387	7.48	9.7		345.31			0.8	0.2					
7/30/2002	XX	304AXX37467	378	7.71	13.1		343.36		23.92	1.4	0.4					
10/22/2002	XX	304AXX37551	473	7.5	10.5		345.05			0.8	0.2					
6/24/2003	XX	304AXX37796	409	7.5	11.8		344.65			0.5	0.6					
8/7/2003	XX	304AXX37840	383	7.45	13.8		344.67		23.91	0.5	0.34					
10/21/2003	XX	304AXX37915	454	7.75	9.8		345.39			1	0.59					
5/10/2004	XX	304AXX38117	447	7.6	7.1		345.13			0.8	0.31					
7/28/2004	XX	304AXX38196	420	7.71	10		344.71		23.94	0.9	0.55					
10/21/2004	XX	304AXX38281	456	7.82	10.3		344.27			0.7	0.2					
5/10/2005	XX	GW304A010	450	7.35	6.9	4.46	345.86	350.32		0.6	0.3					
7/28/2005	XX	GW304A02C	374	7.62	10.5	6.82	343.5	350.32	23.66	2.1	0.8					
11/8/2005	XX	GW304A044	440	7.62	10.2	4.67	345.65	350.32		6.1	0.3					
5/3/2006	XX	GW304A090	333	7.4	6		345.95			4.3	1.59					
8/1/2006	XX	GW304A078	428	7.38	13.3		344.75		23.61	3.2	38					
10/26/2006	XX	GW304A05G	374	7.43	10.3		345.47			2.5	4.7					
5/8/2007	XX	GW304A0AC	343	7.04	6.2		345.37			0.7	0.7					
8/7/2007	XX	GW304A0C5	338	7.47	11		343.07		23.35	1.3	0.7					
10/31/2007	XX	GW304A0DH	402	7.2	9.5		344.9			1.5	0.8					
6/3/2008	XX	GW304A0G5	367	7.64	7.4		345.12			0.2	0.3					
8/18/2008	XX	GW304A0I5	367	7.29	12		345.05			0.7	0.5					
10/23/2008	XX	GW304A0JD	343	7.38	9.2		345.05			1.1	0.4					
5/12/2009	XX	GW304A11D	341	7.29	6.6	4.81	345.51	350.32		1.2	0.3					
8/11/2009	XX	GW304A13D	340	7.16	12.9	4.74	345.58	350.32		0.6	0.8					
10/26/2009	XX	GW304A151	350	6.77	9.4	4.57	345.75	350.32		0.2	0.6					
6/2/2010	XX	GW304A172	316	7.05	8.8		343.96			1.1	0.38					
8/5/2010	XX	GW304A193	315	7.37	13.5		341.61			0.89	0.65					
10/18/2010	XX	GW304A1AB	341	7.36	10.5		345.29			0.81	0.42					
5/19/2011	XX	GW304A1DC	296	7.8	10.1	4.46	345.86	350.32	21.2	2	0.2					
8/8/2011	XX	GW304A1F3	266	7.66	14.1	7.67	342.65	350.32	21.13	1	0					
11/2/2011	XX	GW304A1GE	314	7.5	10.3	5.04	345.28	350.32	21.35	2	0.5					
5/15/2012	XX	GW304A1I8	339	8.5	9.4	4.61	345.71	350.32	20.28	3	0.2					
8/15/2012	XX	GW304A201	259	6.9	17.3	8.49	341.83	350.32		1	0.7					
10/31/2012	XX	GW304A21F	300	7.5	13.6	3.85	346.47	350.32	21.32	1	0					
5/21/2013	XX	GW304A239	301	7.8	9.3	5.12	345.2	350.32		2	0.1					
7/25/2013	XX	GW304A253	273	6.6	13.6	6.57	343.75	350.32		2	0.3					
10/2/2013	XX	GW304A26H	279	8.2	14.2	5.76	344.56	350.32	21.34	1	0.9					
6/4/2014	XX	GW304A28B	270	7.8	10.1	4.91	345.41	350.32		1	0.4					
8/20/2014	XX	GW304A2A5	260	7.9	14.2	6.98	343.34	350.32		2	1.2					
11/12/2014	XX	GW304A2BJ	231	6.7	8.6	4.98	345.34	350.32	21.28	1	0.8					

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(304A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
6/3/2015	XX	GW304A2DF	282	7.9	7.2	4.58	345.74	350.32		1.9	1						
9/2/2015	XX	GW304A2FA	240	8	12.9	6.3	344.02	350.32		0.6	0.5						
11/4/2015	XX	GW304A2H4	272	7.6	10.7	4.89	345.43	350.32	21.32	1.7	1						
6/16/2016	XX	GW304A30E	252	7.8	10.2	5.84	344.48	350.32		1.6	1.7						
9/21/2016	XX	GW304A328	265	7.9	13.1	9.35	340.97	350.32		1.8	0.5						
11/8/2016	XX	GW304A342	246	7.4	9.9	7.43	342.89	350.32	21.34	1.8	0.8						
6/14/2017	XX	GW304A35H	247	7.9	10.1	5.82	344.5	350.32		1.6	3						
8/29/2017	XX	GW304A37B	248	7.8	10.8	8.98	341.34	350.32		2.6	0.5						
11/14/2017	XX	GW304A39S	243	7.2	9.3	10.8	339.52	350.32	21.34	2	0.4						
6/21/2018	XX	GW304A3B0	263	8.1	8.5	7.03	343.29	350.32		1.6	5.1						
8/15/2018	XX	GW304A3D9	285	8.1	15.5	7	343.32	350.32		1.9	0.6						
11/30/2018	XX	GW304A3E8	277	8.8	7.8	4.81	345.51	350.32	21.34	8.5	0.8						
6/5/2019	XX	GW304A3G3	241	8.2	9.8	5.28	345.04	350.32		4	0.5						
8/14/2019	XX	GW304A3IC	233	8.1	11.7	7.71	342.61	350.32		3.6	0.6						
10/24/2019	XX	GW304A3JB	275	7.9	10.3	4.6	345.72	350.32		0.3	0.8						
6/17/2020	XX	GW304A416	211	6.9	10.8	6.85	343.47	350.32		0.7	0.5						
8/5/2020	XX	GW304A43F	212	7.5	14.4	9.03	341.29	350.32		1	0.6						
10/22/2020	XX	GW304A44E	282	7.5	11	5.19	345.13	350.32	21.38	1.7	0.9						
6/22/2021	XX	GW304A469	255	7.2	13.6	7.6	342.72	350.32		1.4	0.6						
9/22/2021	XX	GW304A484	267	7	13.9	6.15	344.17	350.32	24.95	1.3	0.3						
304B																	
5/3/2000	XX	304BXX36649	58	6.35	4.9		344.82										
8/9/2000	XX	304BXX36747	191	6.78	18		342.59		10.79	4.41	1.1						
11/9/2000	XX	304BXX36839	222	6.64	9		343.84			4.72	0.9						
5/16/2001	XX	304BXX37027	303	6.57	7.8		344.38			4.2	0.3						
7/31/2001	XX	304BXX37103	D	D	D				10.77	D	D						
10/23/2001	XX	304BXX37187	341	6.45	12.8		342.67			1.7	1.2						
5/21/2002	XX	304BXX37397	208	6.54	9.8		344.74			9.1	0.9						
7/30/2002	XX	304BXX37467	331	6.48	14.2		342.7		10.77	4.6	0.8						
10/22/2002	XX	304BXX37551	327	6.48	11.7		344.53			3.6	1.2						
6/24/2003	XX	304BXX37796	314	6.55	12.3		343.94			5.5	0.7						
8/7/2003	XX	304BXX37840	259	6.37	15.2		344.03		10.81	4.5	1.01						
10/21/2003	XX	304BXX37915	268	6.54	10.7		344.8			4.8	2.09						
5/10/2004	XX	304BXX38117	226	6.9	7.6		344.38			7.3	0.79						
7/28/2004	XX	304BXX38196	224	6.6	11.1		344.04		10.75	5	0.57						
10/21/2004	XX	304BXX38281	219	6.69	11.4		343.57			3.4	0.37						
5/10/2005	XX	GW304B011	152	6.89	7.5	4.35	345.2	349.55		8	1.1						
7/28/2005	XX	GW304B02D	297	6.54	12.9	6.84	342.71	349.55	10.76	6	0.6						
11/8/2005	XX	GW304B04S	236	6.65	10.2	4.55	345	349.55		6.3	0.4						
5/3/2006	XX	GW304B091	152.6	7.08	5.3		345.37			8.2	0.78						
8/1/2006	XX	GW304B079	218	6.49	14.4		343.94		10.65	5.7	0.4						
10/26/2006	XX	GW304B05H	212	6.7	11.1		344.76			5.2	0.4						
5/8/2007	XX	GW304B0AD	186	6.93	5.8		344.51			7.2	0.5						
8/7/2007	XX	GW304B0C6	245	6.65	13.2		342.18		10.76	4.8	0.7						
10/31/2007	XX	GW304B0D1	238	6.49	10.9		344.11			5.5	1.2						
6/5/2008	XX	GW304B0G6	144	6.42	8.2		344.29			7.2	0.4						
8/18/2008	XX	GW304B0I6	111	5.86	13.7		344.14			3.3	0.8						
10/23/2008	XX	GW304B0JE	131	6.36	10.4		344.14			2.6	2.2						
5/12/2009	XX	GW304B11E	72.3	6.12	6.8	4.91	344.64	349.55		3.5	2						

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(304B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
8/11/2009	XX	GW304B13E	184	5.46	14.4	4.81	344.74	349.55		4.3	1					
10/26/2009	XX	GW304B152	119	6.85	9.2	4.57	344.98	349.55		3	17.5					
6/2/2010	XX	GW304B173	117	7.19	9.9		343			5.27	0.84					
8/5/2010	XX	GW304B194	152.7	6.47	15.3		340.73			4.17	8.21					
10/18/2010	XX	GW304B1AC	129	5.79	11.2		344.51			2.91	4.29					
5/19/2011	XX	GW304B1DD	63	6.4	8.7	4.5	345.05	349.55	10.63	5	2.1					
8/8/2011	XX	GW304B1F4	127	6.34	14.6	7.81	341.74	349.55	10.63	5	0					
11/2/2011	XX	GW304B1GF	130	6.2	10.3	5.15	344.4	349.55	10.84	2	0.5					
5/15/2012	XX	GW304B1I9	71	6	9.4	4.5	345.05	349.55	10.93	4	0.6					
8/15/2012	XX	GW304B202	223	5.8	17.2	8.65	340.9	349.55		4	1.9					
10/31/2012	XX	GW304B21G	144	6.2	12.5	3.9	345.65	349.55	10.85	5	0					
5/21/2013	XX	GW304B23A	127	7.2	8.1	5.27	344.28	349.55		5	0.3					
7/25/2013	XX	GW304B254	138	5.8	16.8	6.75	342.8	349.55		5	1					
10/2/2013	XX	GW304B26I	127	6.9	14.7	5.92	343.63	349.55	10.85	4	1.2					
6/4/2014	XX	GW304B28C	112	7.5	10.8	6.12	343.43	349.55		5	0.6					
8/20/2014	XX	GW304B2A6	114	7	14.9	6.96	342.59	349.55		5	0.3					
11/12/2014	XX	GW304B2C0	61	6.3	8.3	5.1	344.45	349.55	10.75	4	0.4					
6/3/2015	XX	GW304B2DG	44	6.6	9	4.65	344.9	349.55		2.3	0.2					
9/2/2015	XX	GW304B2FB	103	6.6	15.6	6.45	343.1	349.55		5	0.05 U					
11/4/2015	XX	GW304B2H5	80	6.5	10	4.92	344.63	349.55	10.85	4.6	2.4					
6/16/2016	XX	GW304B30F	92	6.6	10.9	6.3	343.25	349.55		5.7	3.7					
9/21/2016	XX	GW304B329	106	6.6	17.6	9.46	340.09	349.55		4.8	0.5					
11/8/2016	XX	GW304B343	151	7.1	9.8	7.45	342.1	349.55	10.82	2.6	0.2					
6/14/2017	XX	GW304B35I	108	6.7	10	6.1	343.45	349.55		8.3	1.2					
8/29/2017	XX	GW304B37C	82	6.9	13.5	9.09	340.46	349.55		7	0.2					
11/14/2017	XX	GW304B396	110	6.7	9.4	5.59	343.96	349.55	10.82	4	0.3					
6/21/2018	XX	GW304B3B1	119	7.1	10.3	7.26	342.29	349.55		6	6.2					
8/15/2018	XX	GW304B3DA	134	5.7	15.1	7.15	342.4	349.55		5.3	0.5					
11/30/2018	XX	GW304B3E9	55	8	5.5	4.9	344.65	349.55	10.83	1.3	0.3					
6/5/2019	XX	GW304B3G4	104	7	10.3	5.53	344.02	349.55		13.5	0.2					
8/14/2019	XX	GW304B3ID	124	7.2	14.5	7.88	341.67	349.55		9.5	0.4					
10/24/2019	XX	GW304B3JC	98	7.5	10.8	4.45	345.1	349.55		4.4	0.2					
6/17/2020	XX	GW304B417	103	6.7	12.4	7.02	342.53	349.55		6.5	0.4					
8/5/2020	XX	GW304B43G	116	6.6	15.8	9.18	340.37	349.55		4.6	0.2					
10/22/2020	XX	GW304B44F	41	6.9	11.1	5.14	344.41	349.55	10.88	2.7	0.5					
6/22/2021	XX	GW304B46A	146	6.4	14.1	7.65	341.9	349.55		5.2	0.3					
9/22/2021	XX	GW304B485	211	6.6	15.1	5.72	343.83	349.55	11.87	0.9	0.2					
401A																
5/3/2000	XX	401AXX36649	204	7.72	7		369.36									
8/10/2000	XX	401AXX36748	190	7.7	8		366.27		43.58	1.13	0.5					
11/9/2000	XX	401AXX36839	196	7.89	8		366.4			0.67	1.6					
5/17/2001	XX	401AXX37028	225	7.91	6.6		367.93			4.2	0.9					
8/1/2001	XX	401AXX37104	216	7.73	10.1		365.2		43.58	2.1	0.3					
10/24/2001	XX	401AXX37188	226	7.88	10.7		365.33			0.7	0.9					
5/22/2002	XX	401AXX37398	216	7.84	8.7		368.22			5.4	1.4					
7/30/2002	XX	401AXX37467	235	7.68	11		366.13		43.58	2.7	0.6					
10/22/2002	XX	401AXX37551	240	7.84	9.4		366.19			2.2	0.4					
6/25/2003	XX	401AXX37797	243	7.82	9.6		367.57			1.7	1.6					
8/11/2003	XX	401AXX37844	236	7.83	11.1		367.14		43.57	2.6	0.25					

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(401A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
10/21/2003	XX	401AXX37915	246	7.59	8.5		368.16			1.1	2.33					
5/10/2004	XX	401AXX38117	249	7.84	8.3		368.16			5.8	0.29					
7/29/2004	XX	401AXX38197	226	7.17	10.1		366.55		43.61	5.2	0.47					
10/21/2004	XX	401AXX38281	230	7.87	10		366.15			2.9	0.4					
5/9/2005	XX	GW401A012	226	7.98	7.3	5.69	369.79	375.48		7.4	0.3					
7/28/2005	XX	GW401A02E	226	7.79	10.7	8.88	366.6	375.48	43.65	5.3	1.6					
11/8/2005	XX	GW401A046	229	7.58	9.9	7.05	368.43	375.48		1.9	0.3					
5/4/2006	XX	GW401A092	227	7.53	7.8		367.93			7.4	0.63					
8/2/2006	XX	GW401A07A	234	7.66	11.4		367.33		43.34	5.6	1					
10/30/2006	XX	GW401A05I	236	8.1	8.9		368.24			2.3	0.6					
5/7/2007	XX	GW401A0AE	235	7.48	7.4		369.12			7.1	0.5					
8/14/2007	XX	GW401A0C7	239	8.04	10.2		365.8		43.62	5.3	0.5					
11/5/2007	XX	GW401A0DJ	245	7.84	8.7		367.38			3.7	1.1					
6/5/2008	XX	GW401A0G7	240	7.6	7.7		367.52			6.2	0.2					
8/20/2008	XX	GW401A0I7	246	7.48	10.9		368.11			4.1	0.7					
10/27/2008	XX	GW401A0JF	241	7.58	9.3		368.11			2.7	1.1					
5/13/2009	XX	GW401A11F	247	7.27	7.6	6.81	368.67	375.48		3	0.3					
8/13/2009	XX	GW401A13F	252	7.17	10.6	7.31	368.17	375.48		4	0.9					
10/28/2009	XX	GW401A153	259	7.32	8.3	7.9	367.58	375.48		3.3	0.6					
6/3/2010	XX	GW401A174	251	7.8	8.3		366.53			5.59	0.34					
8/17/2010	XX	GW401A195	259	7.94	11		364.57			4.55	0.54					
10/19/2010	XX	GW401A1AD	265	7.48	8.6		366.51			2.52	0.26					
5/16/2011	XX	GW401A1DE	337	7	6.6	6.36	369.12	375.48	43.6	6	0.2					
8/8/2011	XX	GW401A1F5	241	7.62	12.3	9.52	365.96	375.48	43.5	4	0.2					
11/1/2011	XX	GW401A1GG	253	7.4	9.94	7.67	367.81	375.48	43.66	2	0.4					
5/14/2012	XX	GW401A1IA	265	8	8.7	6.56	368.92	375.48	43.5	5	0.3					
8/14/2012	XX	GW401A203	182	6.4	12	9.66	365.82	375.48		3	1.3					
11/1/2012	XX	GW401A21H	295	7.8	10.4	6.85	368.63	375.48	43.65	2	0.5					
5/21/2013	XX	GW401A23B	312	8	8.3	8.1	367.38	375.48		5	0.8					
7/22/2013	XX	GW401A255	270	7.9	10.9	8.51	366.97	375.48		5	0.9					
9/30/2013	XX	GW401A26J	255	8.2	15	8.23	367.25	375.48	43.65	3	1.1					
6/4/2014	XX	GW401A28D	266	7.7	11.2	7.65	367.83	375.48		5	0.2					
8/19/2014	XX	GW401A2A7	266	7.8	12.6	9.68	365.8	375.48		5	0.5					
11/11/2014	XX	GW401A2C1	259	7.3	8.3	7.28	368.2	375.48	43.61	3	0.8					
6/2/2015	XX	GW401A2DH	291	8	6.9	6.95	368.53	375.48		5.2	0.2					
9/1/2015	XX	GW401A2FC	255	7.9	10.6	8.2	367.28	375.48		4.2	0.8					
11/3/2015	XX	GW401A2H6	278	8	8.8	7.35	368.13	375.48		5.4	5					
6/14/2016	XX	GW401A30G	269	7.8	8.3	8.54	366.94	375.48		6.1	1.1					
9/20/2016	XX	GW401A32A	359	7.7	10.4	10.81	364.67	375.48		3.6	0.8					
11/9/2016	XX	GW401A344	274	8	8.9	10.4	365.08	375.48	43.65	2.3	0.4					
6/14/2017	XX	GW401A35J	258	8	8.9	7.68	367.8	375.48		5.5	3					
8/29/2017	XX	GW401A37D	276	7.9	9.2	10.25	365.23	375.48		4.2	0.6					
11/14/2017	XX	GW401A397	263	7.7	8.6	7.52	367.96	375.48	43.65	3.7	0.4					
6/20/2018	XX	GW401A3B2	292	8.1	9.2	8.65	366.83	375.48		5.1	0.8					
8/15/2018	XX	GW401A3DB	298	8.1	10.2	8.85	366.63	375.48		3.8	0.8					
11/30/2018	XX	GW401A3EA	292	8	4.5	7.16	368.32	375.48	43.65	3.5	0.5					
6/5/2019	XX	GW401A3G5	370	7.8	8.2	6.76	368.72	375.48		10.9	0.5					
8/14/2019	XX	GW401A3IE	270	8.1	10	9.1	366.38	375.48		10.5	0.6					
10/22/2019	XX	GW401A3JD	272	7.9	10.9	8.99	366.49	375.48		4.6	0.6					
6/17/2020	XX	GW401A418	247	8	9.6	8.59	366.89	375.48		4.1	0.6					

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(401A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
8/4/2020	XX	GW401A43H	246	7.4	9.8	10.22	365.26	375.48		5.5	0.5					
10/21/2020	XX	GW401A44G	253	7.9	8.4	8.74	366.74	375.48	43.68	2.6	0.8					
6/23/2021	XX	GW401A46B	250	7.5	12.3	8.85	366.63	375.48		5.2	0.3					
9/21/2021	XX	GW401A486	256	7.6	12.7	8.82	366.66	375.48	43.65	3.6	0.4					
401B																
5/3/2000	XX	401BXX36649	343	7.86	4.9		366.33									
8/10/2000	XX	401BXX36748	323	8.03	5		363.28		25.92	0.51	0.2					
11/9/2000	XX	401BXX36839	310	8.16	8		363.38			0.98	1.2					
5/17/2001	XX	401BXX37028	350	8.2	6.6		364.97			1.2	20.3					
8/1/2001	XX	401BXX37104	333	7.94	12		362.17		25.89	0.8	0.2					
10/24/2001	XX	401BXX37188	347	8.07	10.8		362.32			0.9	11.9					
5/22/2002	XX	401BXX37398	330	7.92	9.1		365.18			0.9	4.4					
7/30/2002	XX	401BXX37467	360	8.06	10.4		363.28		25.89	1.5	1.5					
10/22/2002	XX	401BXX37551	365	8.11	9.8		363.35			0.5	0.6					
6/25/2003	XX	401BXX37797	368	8.06	8.7		364.54			0.4	1					
8/11/2003	XX	401BXX37844	361	8.01	12.1		364.48		25.93	0.2	1					
10/21/2003	XX	401BXX37915	383	8.26	8.4		365.25			0.4	0.85					
5/10/2004	XX	401BXX38117	385	8.03	8.2		365.17			0.9	0.34					
7/29/2004	XX	401BXX38197	345	7.98	10.8		363.93		23.95	1.6	0.42					
10/21/2004	XX	401BXX38281	360	8.07	10.7		363.22			1.1	0.36					
5/9/2005	XX	GW401B013	346	8.04	6.8	6.05	366.88	372.93		0.5	0.4					
7/28/2005	XX	GW401B02F	346	7.95	10.3	9.27	363.66	372.93	25.92	1.1	1					
11/8/2005	XX	GW401B047	356	7.9	10.7	7.45	365.48	372.93		1.6	1					
5/4/2006	XX	GW401B093	345	7.76	7.9		365.28			1.9	0.58					
8/2/2006	XX	GW401B07B	354	7.81	13.7		364.44		25.74	0.5	1.4					
10/30/2006	XX	GW401B05J	362	7.98	9.7		365.68			0.1	0.6					
5/7/2007	XX	GW401B04F	358	7.75	7.4		366.02			0.1	0.6					
8/14/2007	XX	GW401B0C8	361	8.05	11.1		362.73		25.89	0.1	0.6					
11/5/2007	XX	GW401B0E0	377	8.16	9.2		365.04			0.7	1.3					
6/5/2008	XX	GW401B0G8	359	7.95	8.7		364.56			0.2	0.2					
8/20/2008	XX	GW401B0I8	364	7.82	11.5		365.09			0.1	0.4					
10/27/2008	XX	GW401B0JG	360	7.81	9.8		365.09			0.1	0.7					
5/13/2009	XX	GW401B11G	360	7.62	7.5	7.21	365.72	372.93		0.2	0.4					
8/13/2009	XX	GW401B13G	370	7.52	10.7	7.82	365.11	372.93		0.1	0.8					
10/28/2009	XX	GW401B154	380	7.83	8.9	8.11	364.82	372.93		0.1	0.6					
6/3/2010	XX	GW401B175	364	7.8	8.2		363.52			0.12	0.37					
8/17/2010	XX	GW401B196	377	8.07	12.1		361.37			0.35	0.37					
10/19/2010	XX	GW401B1AE	386	7.62	10.5		363.64			0.25	0.48					
5/16/2011	XX	GW401B1DF	335	7.8	6.3	6.25	366.68	372.93	25.81	0.8	0					
8/8/2011	XX	GW401B1F6	350	7.87	14.7	10.02	362.91	372.93	25.75	1	0.4					
11/1/2011	XX	GW401B1GH	359	7.5	10.46	7.98	364.95	372.93	25.94	1	0.4					
5/14/2012	XX	GW401B1B	375	7.9	8.9	6.9	366.03	372.93	25.76	0.3	0.1					
8/14/2012	XX	GW401B204	291	7.3	16.5	10.17	362.76	372.93		1	0.5					
11/1/2012	XX	GW401B21I	403	7.6	10.6	8.1	364.83	372.93	25.93	0.4	7.3					
5/21/2013	XX	GW401B23C	377	7.9	8.1	8.48	364.45	372.93		0.8	1.5					
7/22/2013	XX	GW401B256	381	7.9	11.5	8.95	363.98	372.93		0.8	0.6					
9/30/2013	XX	GW401B270	377	7	12.3	8.65	364.28	372.93	26.05	1	0.4					
6/4/2014	XX	GW401B28E	375	7.7	11.6	8.15	364.78	372.93		1	0.3					
8/19/2014	XX	GW401B2A8	377	7.9	11.9	10	362.93	372.93		0.6	0.5					

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(401B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
11/11/2014	XX	GW401B2C2	366	7.2	9.2	7.57	365.36	372.93	25.9	1	0.4						
6/2/2015	XX	GW401B2DI	397	7.9	6.6	7.34	365.59	372.93		0.5	0.2						
9/1/2015	XX	GW401B2FD	366	7.9	11.8	8.6	364.33	372.93		0.3	0.8						
11/3/2015	XX	GW401B2H7	438	8	9.3	7.65	365.28	372.93	25.93	2	6.6						
6/14/2016	XX	GW401B30H	386	7.8	8.7	8.95	363.98	372.93		0.3	8.3						
9/20/2016	XX	GW401B32B	390	7.8	11.3	11.43	361.5	372.93		0.4	0.6						
11/9/2016	XX	GW401B345	395	7.9	9.7	10.85	362.08	372.93	25.92	0.3	0.2						
6/14/2017	XX	GW401B360	373	8	8.5	8.18	364.75	372.93		0.8	2.3						
8/29/2017	XX	GW401B37E	392	7.9	10.3	10.9	362.03	372.93		0.3	0.2						
11/14/2017	XX	GW401B398	380	7.8	8.9	7.9	365.03	372.93	25.92	5.6	0.4						
6/20/2018	XX	GW401B3B3	428	8.1	8.6	9.16	363.77	372.93		0.2	0.5						
8/15/2018	XX	GW401B3DC	420	7.7	11.2	9.26	363.67	372.93		0.2	0.3						
11/30/2018	XX	GW401B3EB	416	7.9	8.3	7.55	365.38	372.93	25.92	1.2	0.3						
6/5/2019	XX	GW401B3G6	394	8	10	7.28	365.65	372.93		2.4	0.6						
8/14/2019	XX	GW401B3IF	394	8	10.5	9.4	363.53	372.93		4.4	0.6						
10/22/2019	XX	GW401B3JE	393	8	10	9.38	363.55	372.93		0.7	0.5						
6/17/2020	XX	GW401B419	355	7.9	11.6	9.08	363.85	372.93		2.4	0.8						
8/4/2020	XX	GW401B43I	358	7.6	12.2	10.79	362.14	372.93		0.7	0.3						
10/21/2020	XX	GW401B44H	357	7.9	8.8	8.85	364.08	372.93	25.98	0.8	0.7						
6/23/2021	XX	GW401B46C	358	7.5	12.6	9.36	363.57	372.93		0.7	0.3						
9/21/2021	XX	GW401B487	362	7.6	13.2	9.15	363.78	372.93	25.9	0.2	0.6						
402A																	
5/3/2000	XX	402AXX36649	210	8.03	4.7		401.66										
8/10/2000	XX	402AXX36748	198	8.03	9		401.12		62.81	0.55	0.3						
11/9/2000	XX	402AXX36839	194	8.14	8		401.22			0.66	0.3						
5/17/2001	XX	402AXX37028	224	8.24	7.2		401.25			0.4	0.1						
8/1/2001	XX	402AXX37104	215	7.97	16.2		399.76		62.8	1.4	0.5						
10/24/2001	XX	402AXX37188	221	8.08	10.9		400.66			0.8	0.5						
5/22/2002	XX	402AXX37398	213	7.97	9		401.35			0.7	0.3						
7/30/2002	XX	402AXX37467	228	7.95	12.2		400.79		62.8	0.9	0.9						
10/22/2002	XX	402AXX37551	233	8.18	9.4		401.02			0.7	0.2						
6/25/2003	XX	402AXX37797	242	7.6	10.1		401.1			0.4	0.7						
8/11/2003	XX	402AXX37844	232	7.86	13.6		401.52		62.78	0.3	0.35						
10/22/2003	XX	402AXX37916	239	8.2	6.8		401.92			0.7	0.57						
5/11/2004	XX	402AXX38118	249	7.41	6.6		401.52			1.7	0.51						
7/29/2004	XX	402AXX38197	227	7.57	11.8		401.18		62.82	2.2	0.11						
10/26/2004	XX	402AXX38286	234	7.74	9.2		401.04			1	0.23						
5/9/2005	XX	GW402A014	230	7.6	6	4.05	402.05	406.1		2.1	0.2						
8/1/2005	XX	GW402A02G	229	7.64	10.1	5.3	400.8	406.1	62.84	3.4	0.7						
11/9/2005	XX	GW402A048	235	7.91	8.3	4.58	401.52	406.1		1.8	0.4						
5/4/2006	XX	GW402A094	229	7.77	7.6		401.91			2.8	0.4						
8/2/2006	XX	GW402A07C	232	7.61	14.8		401.49		62.63	4.8	0.6						
10/30/2006	XX	GW402A060	243	8.06	9		402			0.4	0.8						
5/7/2007	XX	GW402A0AG	242	7.79	7.1		401.76			0.6	0.3						
8/14/2007	XX	GW402A0C9	237	7.91	10.4		400.76		62.74	4.1	0.6						
11/5/2007	XX	GW402A0E1	257	8.02	8.4		401.62			2	0.6						
6/5/2008	XX	GW402A0G9	247	8.01	8.2		401.45			1.8	0.3						
8/20/2008	XX	GW402A0I9	258	7.7	11.2		401.49			1	0.5						
10/27/2008	XX	GW402A0JH	259	7.84	9.4		401.49			0.6	0.5						

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(402A)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
5/13/2009	XX	GW402A11H	264	7.67	7.1	4.35	401.75	406.1		0.5	0.3					
8/13/2009	XX	GW402A13H	262	7.38	12.1	4.66	401.44	406.1		1.2	0.7					
10/28/2009	XX	GW402A155	278	8	8.3	4.5	401.6	406.1		0.5	0.5					
6/3/2010	XX	GW402A176	273	8.07	8.8		401.19			2.04	0.21					
8/17/2010	XX	GW402A197	274	7.76	11.7		399.69			1.49	0.57					
10/19/2010	XX	GW402A1AF	297	7.74	9.4		401.32			1.26	0.18					
5/16/2011	XX	GW402A1DG	281	8	6.7	4.13	401.97	406.1	62.78	1	3.6					
8/8/2011	XX	GW402A1F7	273	7.84	13.4	5.19	400.91	406.1	62.63	1	0					
11/1/2011	XX	GW402A1GI	276	7.7	9.8	4.5	401.6	406.1	62.83	1	0.5					
5/16/2012	XX	GW402A1IC	328	7.8	10.9	4.05	402.05	406.1	62.6	0.6	0					
8/15/2012	XX	GW402A205	367	8	16.4	5.84	400.26	406.1		1	0					
10/31/2012	XX	GW402A21J	315	7.4	12.4	4.15	401.95	406.1	62.83	1	0					
5/20/2013	XX	GW402A23D	303	7.9	8.9	4.6	401.5	406.1		5	0.2					
7/22/2013	XX	GW402A257	318	7.8	15.8	5.41	400.69	406.1		2	0.3					
9/30/2013	XX	GW402A271	309	8.3	12.7	4.65	401.45	406.1	62.8	1	1.1					
6/4/2014	XX	GW402A28F	347	7.9	11.8	4.8	401.3	406.1		1	0.4					
8/19/2014	XX	GW402A2A9	331	7.9	11.8	5.2	400.9	406.1		1	0.5					
11/11/2014	XX	GW402A2C3	313	7.1	7.2	4.37	401.73	406.1	62.75	1	0.3					
6/4/2015	XX	GW402A2DJ	381	7.8	8.1	4.3	401.8	406.1		2.6	0.6					
9/1/2015	XX	GW402A2FE	323	7.8	12	4.79	401.31	406.1		0.3	0.8					
11/3/2015	XX	GW402A2H8	347	7.9	8.9	4.38	401.72	406.1	62.82	3.6	1					
6/14/2016	XX	GW402A30I	353	7.6	8.7	4.75	401.35	406.1		1.5	2.2					
9/20/2016	XX	GW402A32C	368	7.8	12.2	6.08	400.02	406.1		1.2	0.5					
11/9/2016	XX	GW402A346	386	7.8	8.9	5.32	400.78	406.1	62.78	1.1	0.4					
6/14/2017	XX	GW402A36I	343	8	8.9	4.8	401.3	406.1		0.3	1.7					
8/29/2017	XX	GW402A37F	379	7.9	10.2	6.3	399.8	406.1		2.5	0.6					
11/15/2017	XX	GW402A399	343	7.7	8	4.72	401.38	406.1	62.76	1.5	0.4					
6/20/2018	XX	GW402A3B4	418	8.1	9.3	4.95	401.15	406.1		0.1	0.6					
8/15/2018	XX	GW402A3DD	407	7.6	12.8	4.92	401.18	406.1		1.6	0.3					
11/28/2018	XX	GW402A3EC	439	8.1	7.6	4.28	401.82	406.1	62.75	0.4	0.6					
6/5/2019	XX	GW402A3G7	410	7.7	9.4	4.33	401.77	406.1		0.4	0.8					
8/13/2019	XX	GW402A3IG	385	7.9	10.9	5.18	400.92	406.1		6.8	0.8					
10/22/2019	XX	GW402A3JF	376	7.8	10.1	4.51	401.59	406.1		3	0.3					
6/17/2020	XX	GW402A41A	333	8	11.7	5.32	400.78	406.1		4.3	0.6					
8/4/2020	XX	GW402A43J	346	7.3	12.6	5.97	400.13	406.1		3.2	0.6					
10/21/2020	XX	GW402A44I	375	7.9	8.5	4.75	401.35	406.1	62.8	3.8	0.6					
6/23/2021	XX	GW402A46D	388	7.5	9.5	5.83	400.27	406.1		1.3	0.3					
9/21/2021	XX	GW402A488	378	7.3	11.1	4.92	401.18	406.1	62.88	1.5	0.4					
402B																
5/3/2000	XX	402BXX36649	1422	6.88	4		399.32									
8/10/2000	XX	402BXX36748	2130	6.72	7		398.69		22.81	0.39	0.1					
11/9/2000	XX	402BXX36839	1913	6.86	8		398.82			0.6	0.3					
5/17/2001	XX	402BXX37028	2180	6.9	6.8		398.86			0.5	0.1					
8/1/2001	XX	402BXX37104	2040	6.69	13.2		397.37		22.87	1.2	0.1					
10/24/2001	XX	402BXX37188	2030	6.79	10.8		398.79			6.1	0.1					
5/22/2002	XX	402BXX37398	1858	6.82	9.4		399.08			0.7	0.1					
8/7/2002	XX	402BXX37475	2030	6.72	11.1		398.05		22.87	0.4	0.2					
10/24/2002	XX	402BXX37553	1996	6.92	9.6		398.87			1.1	0.2					
6/25/2003	XX	402BXX37797	1968	6.83	8.9		398.53			0.3	0.2					

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(402B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
8/11/2003	XX	402BXX37844	1905	6.83	11.6		399.21		22.77	0.4	0.14					
10/22/2003	XX	402BXX37916	1858	6.89	7.6		399.74			0.6	0.3					
5/11/2004	XX	402BXX38118	1828	6.91	5.9		399.06			1.7	0.19					
8/2/2004	XX	402BXX38201	1631	6.73	10.4		398.63		22.78	1.5	0.2					
10/26/2004	XX	402BXX38286	1670	6.83	10		398.62			1	0.19					
5/9/2005	XX	GW402B015	1175	6.96	5.6	6.63	399.81	406.44		0.3	0.1					
8/1/2005	XX	GW402B02H	1520	6.72	9.4	8.18	398.26	406.44	22.81	0.4	0.3					
11/9/2005	XX	GW402B049	1514	6.89	9.4	7.32	399.12	406.44		0.5	0.3					
5/5/2006	XX	GW402B095	1349	6.98	6.3		399.67			0.3	0.44					
8/2/2006	XX	GW402B07D	1465	6.94	12.2		398.97		22.58	1.1	0.7					
10/30/2006	XX	GW402B061	1368	6.96	10.1		399.75			0.1	0.5					
5/7/2007	XX	GW402B0AH	1344	6.98	6.1		399.33			0.1	1					
8/14/2007	XX	GW402B0CA	1384	7.02	10.2		398.27		22.78	0.2	0.4					
11/5/2007	XX	GW402B0E2	1183	7.03	9.6		399.72			1.2	0.5					
6/11/2008	XX	GW402B0GA	1330	6.93	7		399.09			0.2	0.2					
8/20/2008	XX	GW402B0IA	1341	6.91	10.8		398.76			0.3	0.7					
10/27/2008	XX	GW402B0JI	1293	6.91	10.4		398.76			0.4	0.6					
5/13/2009	XX	GW402B11I	1280	6.98	6.2	7.05	399.39	406.44		0.4	0.4					
8/13/2009	XX	GW402B13I	1282	6.77	10.6	4.47	401.97	406.44		0.2	0.6					
10/28/2009	XX	GW402B156	1290	7.02	9.4	7.05	399.39	406.44		0.1	0.2					
6/3/2010	XX	GW402B177	1233	7.13	7.4		398.78			0.1	0.81					
8/17/2010	XX	GW402B198	1259	6.89	11.2		397.37			0.1	0.42					
10/19/2010	XX	GW402B1AG	1293	6.82	10.2		399.13			0.19	0.22					
5/16/2011	XX	GW402B1DH	1000	6.9	6	6.4	400.04	406.44	22.58	1	1					
8/8/2011	XX	GW402B1F8	1138	6.6	13.7	7.93	398.51	406.44	22.6	1	0					
11/1/2011	XX	GW402B1GJ	1166	6.8	10.4	7.22	399.22	406.44	22.78	1	0.2					
5/16/2012	XX	GW402B1ID	1001	6.9	9.4	6.72	399.72	406.44	22.59	0.6	0.4					
8/15/2012	XX	GW402B206	1168	6.9	13.3	8.33	398.11	406.44		1	0					
10/31/2012	XX	GW402B220	1118	7	12.2	6.39	400.05	406.44	22.8	0.4	0					
5/20/2013	XX	GW402B23E	1151	6.9	7.3	7.35	399.09	406.44		0.8	0.5					
7/22/2013	XX	GW402B258	1183	6.5	14.2	8.44	398	406.44		1	0.2					
9/30/2013	XX	GW402B272	1140	7	12.4	7.6	398.84	406.44	22.8	0.6	0.3					
6/4/2014	XX	GW402B28G	1146	6.9	11.2	7.78	398.66	406.44		1	0.1					
8/19/2014	XX	GW402B2AA	1117	7.3	13.4	7.85	398.59	406.44		0.6	0.4					
11/11/2014	XX	GW402B2C4	1084	6.7	8.6	7.02	399.42	406.44	22.73	1	0.4					
6/4/2015	XX	GW402B2E0	1183	6.9	7.1	7.01	399.43	406.44		0.3	0.2					
9/1/2015	XX	GW402B2FF	1092	6.9	11.7	7.6	398.84	406.44		0.3	0.05 U					
11/3/2015	XX	GW402B2H9	1110	7	9.6	7.83	398.61	406.44	22.8	0.8	1					
6/14/2016	XX	GW402B30J	1117	6.7	7.8	7.49	398.95	406.44		0.2	0.5					
9/20/2016	XX	GW402B32D	1120	6.8	11.5	8.78	397.66	406.44		0.2	0.3					
11/9/2016	XX	GW402B347	1118	7	9.5	7.74	398.7	406.44	22.8	0.2	0.3					
6/14/2017	XX	GW402B362	1033	6.9	7.5	7.78	398.66	406.44		0.2	2.8					
8/29/2017	XX	GW402B37G	1070	6.9	9.8	9.25	397.19	406.44		0.1	0.2					
11/15/2017	XX	GW402B39A	1066	6.9	9.1	7.41	399.03	406.44	22.8	0.3	0.3					
6/20/2018	XX	GW402B3B5	1160	7.1	7.9	7.92	398.52	406.44		0.2	0.6					
8/15/2018	XX	GW402B3DE	1165	6.8	10.4	7.9	398.54	406.44		0.1	0.6					
11/28/2018	XX	GW402B3ED	997	7.3	8.4	7.22	399.22	406.44	22.8	0.4	0.6					
6/5/2019	XX	GW402B3G8	1007	7	7.5	7.33	399.11	406.44		0.4	0.5					
8/13/2019	XX	GW402B3IH	1016	7.1	10.8	7.68	398.76	406.44		1.6	0.8					
10/22/2019	XX	GW402B3JG	1000	7	10	7.53	398.91	406.44		1.9	0.6					

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 CUMBERLAND CENTER, ME 04021

(402B)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
6/17/2020	XX	GW402B41B	894	6.9	11.9	8.2	398.24	406.44		0.8	0.5					
8/4/2020	XX	GW402B440	880	7.2	11.6	8.65	397.79	406.44		2.2	0.4					
10/21/2020	XX	GW402B44J	895	7.1	9.3	7.12	399.32	406.44	22.81	0.9	0.6					
6/23/2021	XX	GW402B46E	878	6.9	8.8	8.54	397.9	406.44		0.9	0.5					
9/21/2021	XX	GW402B489	894	6.8	11.2	7.5	398.94	406.44	22.75	0.5	0.8					

LDS

6/10/2008	XX	LDSXX39597	911	7.44	14.2											
8/19/2008	XX	LDSXX39687	981	6.87	16.2											
10/22/2008	XX	LDSXX39736	1058	6.83	9.8											
5/7/2009	XX	LDSXX39940	1558	7.38	9.1						5.9					
8/12/2009	XX	LDSXX40037	1454	6.83	16.3											
10/27/2009	XX	LDSXX40113	1498	6.57	7.9											
6/7/2010	XX	GWXXXX1B8	1684	7.39	17.5											
8/18/2010	XX	GWXXXX1B9	1773	7.62	18.4											
10/21/2010	XX	GWXXXX1BA	1580	6.81	10.8											
5/18/2011	XX	LTXXXX1EF	887	7	13.9					0.8	1.8					
8/10/2011	XX	LTXXXX1G6	1046	6.96	17.2					1	1.4					
11/2/2011	XX	LTXXXX1HH	1018	6.8	10.4					1	0.9					
5/14/2012	XX	LTXXXX1JB	1528	7	13.4					0.6	0.7					
8/14/2012	XX	LTXXXX214	1125	6.9	19.2					2	0					
10/30/2012	XX	LTXXXX22I	1356	6.9	13.4					2	1.8					
5/21/2013	XX	LTXXXX24C	1371	7.1	16.9					6	3.5					
7/25/2013	XX	LTXXXX266	1383	6.9	21.4					3	5					
10/1/2013	XX	LTXXXX280	1346	7.1	20.8					1	0.8					
6/5/2014	XX	LTXXXX29E	1664	7.2	13.7					1	3.1					
8/21/2014	XX	LTXXXX2B8	915	7.8	18.6					2	1.8					
11/13/2014	XX	LTXXXX2D2	975	6.9	7					1	1.8					
6/4/2015	XX	LTXXXX2EI	1018	7	13.6					1.8	2.2					
9/3/2015	XX	LTXXXX2GD	918	7.1	23					1.1	2.2					
11/5/2015	XX	LTXXXX2I7	914	7	9.4					2.1	2.8					
6/16/2016	XX	LTXXXX31H	1014	6.8	19.8					1.3	1					
9/22/2016	XX	LTXXXX33B	1053	7.5	18					0.5	2.6					
11/10/2016	XX	LTXXXX355	995	7.1	8.8					1.4	0.8					
6/15/2017	XX	LTXXXX370	1304	7	17.7					0.7	1.1					
8/31/2017	XX	LTXXXX38E	1140	7.1	18.5					1.5	1.3					
11/16/2017	XX	LTXXXX3A8	1078	6.9	7.1					2	2.7					
6/21/2018	XX	LTXXXX3C3	1352	7	19.3					0.3	2.1					
8/16/2018	XX	LTXXXX3CI	1282	6.7	21.4					0.5	1.8					
11/29/2018	XX	LTXXXX3FB	1689	6.9	7.1					2.9	0.6					
6/6/2019	XX	LTXXXX3H6	1497	7.1	20.3					3.4	0.6					
8/15/2019	XX	LTXXXX3I1	1408	7.1	23.9					2.5	1.6					
10/24/2019	XX	LTXXXX40E	1162	7.2	11.8					0.5	0.8					
6/18/2020	XX	LTXXXX429	1415	7.3	22.3					2.5	0.8					
8/6/2020	XX	LTXXXX434	1099	7	22					1.7	0.9					
10/22/2020	XX	LTXXXX45H	1193	7.1	11.5					2.2	0.8					
6/24/2021	XX	LTXXXX47C	922	6.8	23					0.7	8.5					
9/23/2021	XX	LTXXXX497	916	6.6	19.4					1.4	0.3					

LP

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Field Parameters

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(LP)		Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
5/3/2000	XX	LPXX36649	2068	6.88	7.7											
8/9/2000	XX	LPXX36747	2940	7.47	18											
11/8/2000	XX	LPXX36838	3330	7.75	10.1											
5/16/2001	XX	LPXX37027	3610	7.63	12											
7/31/2001	XX	LPXX37103	4760	7.11	20.2											
10/23/2001	XX	LPXX37187	4560	7.35	11.3											
5/21/2002	XX	LPXX37397	2590	7.1	12.2											
8/6/2002	XX	LPXX37474	3760	7.44	20.6											
10/24/2002	XX	LPXX37553	3250	7.57	8.3											
6/26/2003	XX	LPXX37798	2320	7.43	24.9											
8/13/2003	XX	LPXX37846	2190	7.36	23.4											
10/22/2003	XX	LPXX37916	1751	7.52	7.4											
5/6/2004	XX	LPXX38113	1805	6.76	10.8											
7/27/2004	XX	LPXX38195	2250	7.49	16.9											
10/25/2004	XX	LPXX38285	2680	7.67	10.1											
5/12/2005	XX	LTLPPX002	1791	7.34	11.5											
7/25/2005	XX	LTLPPX01E	2500	7.59	20.6											
11/9/2005	XX	LTLPPX036	2500	7.59	20.6											
5/2/2006	XX	LTLPPX082	1941	6.83	9.6											
8/3/2006	XX	LTLPPX06A	1638	7.25	22.4											
10/18/2006	XX	LTLPPX04I	2050	7.53	10.6											
5/21/2007	XX	LTLPPX09E	1718	6.8	9											
8/8/2007	XX	LTLPPX0B7	A	A	A				A	A						
11/6/2007	XX	LTLPPX0CJ	1772	7.06	7.1											
5/27/2008	XX	LTLPPX0F7	1806	7.58	20.4											
8/19/2008	XX	LTLPPX0H7	1755	7.38	20											
10/22/2008	XX	LTLPPX0IF	2070	7.59	6.3											
5/7/2009	XX	LTLPPX10F	2070	7.09	10.4											
8/12/2009	XX	LTLPPX12F	2320	6.88	18											
10/27/2009	XX	LTLPPX143	1570	6.46	7.9											
6/7/2010	XX	LTLPPX164	2090	7.12	16.4								D3			
8/18/2010	XX	LTLPPX185	3120	7.84	20.8								D3			
10/21/2010	XX	LTLPPX19D	2290	6.98	9.9								D3			
5/18/2011	XX	LTXXX1ED	1055	6.8	10.7				8	74.3						
8/10/2011	XX	LTXXX1G4	2200	8.46	18.8				10	55.6						
11/2/2011	XX	LTXXX1HF	1904	7	9.6				5	45.4						
5/14/2012	XX	LTXXX1J9	1182	6.9	18.2				5	62.4						
8/15/2012	XX	LTXXX212	1828	8.3	24.4				8	63.6						
10/30/2012	XX	LTXXX22G	1405	7.4	13.4				6	4.2						
5/21/2013	XX	LTXXX24A	1560	7.7	16				6	20						
7/25/2013	XX	LTXXX264	1379	7.8	23				6	26.5						
10/1/2013	XX	LTXXX27I	1600	7.4	24.9				6	6.5						
6/5/2014	XX	LTXXX29C	1648	7.7	15.7				4	5.8						
8/21/2014	XX	LTXXX2B6	2730	7.7	18.2				6	8.2						
11/13/2014	XX	LTXXX2D0	1210	7	6.6				4	8.4						
6/4/2015	XX	LTXXX2EG	1202	7.1	15.1				6.8	13.8						
9/3/2015	XX	LTXXX2GB	1600	8	26.8				8.4	18.6						
11/5/2015	XX	LTXXX2I5	1172	7.2	9.2				5.8	12.8						
6/16/2016	XX	LTXXX31F	1806	7.7	20.5				6.6	23.1						
9/22/2016	XX	LTXXX339	2171	8.2	20.6				10.7	5.8						

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Field Parameters

(LP)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
11/10/2016	XX	LTXXXX353	2346	7.6	6.3					7.4	6.8						
6/15/2017	XX	LTXXXX36I	1650	7.8	20.6					6.9	12.2						
8/31/2017	XX	LTXXXX38C	2829	7.7	18.1					6.9	8.4						
11/16/2017	XX	LTXXXX3A6	1170	7.7	4.1					8.5	6.7						
6/21/2018	XX	LTXXXX3C1	2070	7.9	23.2					9.6	14.5						
8/16/2018	XX	LTXXXX3CG	1677	7.9	25.5					13.9	4.6						
11/29/2018	XX	LTXXXX3F9	630	7.7	1.7					2.4	0.8						
6/6/2019	XX	LTXXXX3H4	1182	7.4	23.4					12.4	12.6						
8/15/2019	XX	LTXXXX3HJ	1875	7.9	25.2					6.6	6.7						
10/24/2019	XX	LTXXXX40C	1549	7.7	11					5.4	2.6						
6/18/2020	XX	LTXXXX427	1511	7.7	28.7					5.2	3.1						
8/6/2020	XX	LTXXXX432	1733	8.1	24					3.7	5.6						
10/22/2020	XX	LTXXXX45F	1073	7.3	10.7					5.6	2.1						
6/24/2021	XX	LTXXXX47A	1625	7.7	21.3					1.8	5.6						
10/5/2021	XX	LTXXXX49J	1110	7.6	22.4					9.1	17						

LPD2

5/19/2005	XX	LTLPD2003	246	7.31	10.8					9.6	5.4						
8/2/2005	XX	LTLPD201F	642	6.67	16.6					10.3	18.5						
10/26/2005	XX	LTLPD2037	292	7.64	8.4					4.3	11.8						
5/10/2006	XX	LTLPD2083	204	6.87	12.8					7	3.68						
7/24/2006	XX	LTLPD206B	199	6.99	21.6					7.5	9						
10/10/2006	XX	LTLPD204J	582	8.29	10					12.3	25.8						
5/21/2007	XX	LTLPD209F	200	7.23	9.7					8.4	2.2						
8/6/2007	XX	LTLPD208B	597	7.19	20.6					6.46	39						
10/24/2007	XX	LTLPD20D0	200	7.37	11.7					9.6	4.8						
5/28/2008	XX	LTLPD20F8	280	6.96	13.7					7.9	5.4						
8/11/2008	XX	LTLPD20H8	236	7.08	18.4					3	2.5						
10/15/2008	XX	LTLPD20IG	243	7.11	9.7					3.8	5.1						
5/6/2009	XX	LTLPD210G	202	6.72	11.7					6.8	3.4						
8/4/2009	XX	LTLPD212G	177	6.6	19.6					5.45	2.4						
10/19/2009	XX	LTLPD2144	198	6.67	4.6					6.1	4.7						
5/25/2010	XX	LTLPD2165	344	6.97	19.4					4.25	6.53						
8/2/2010	XX	LTLPD2186	479	6.91	16.8						54						
10/12/2010	XX	LTLPD219E	232	7.13	9.1					6.61	5.61						
5/18/2011	XX	LTXXXX1EE	94	7.8	9.9					6	1.2						
8/10/2011	XX	LTXXXX1G5	588	7.49	19					1	25.8						
11/2/2011	XX	LTXXXX1HG	413	6.3	8.8					3	55.3						
5/14/2012	XX	LTXXXX1JA	143	6.8	12.9					5	1.4						
8/14/2012	XX	LTXXXX213	503	7.3	21.1					3	22.3						
10/30/2012	XX	LTXXXX22H	729	6.7	14.6					6	0						
5/21/2013	XX	LTXXXX24B	112	6.7	15.1					5	3.1						
7/25/2013	XX	LTXXXX265	220	7.6	19.1					5	5.3						
10/1/2013	XX	LTXXXX27J	265	6.9	20.4					3	2.1						
6/5/2014	XX	LTXXXX29D	181	6.9	16.5					1	2.8						
8/21/2014	XX	LTXXXX2B7	461	7.9	16.9					5	5.7						
11/13/2014	XX	LTXXXX2D1	314	7	2.8					1	4.6						
6/4/2015	XX	LTXXXX2EH	133	7.6	11.9					5.7	2.6						
9/3/2015	XX	LTXXXX2GC	249	8.2	20.5					4.9	1.9						
11/5/2015	XX	LTXXXX2I6	334	6.6	8.6					6.4	4.8						

SUMMARY REPORT

Field Parameters

(LPD2)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
6/16/2016	XX	LTXXX31G	517	6.5	16.7					5.9	17.6					
9/22/2016	XX	LTXXX33A	D	D	D					D	D					
11/10/2016	XX	LTXXX354	D	D	D					D	D					
6/15/2017	XX	LTXXX36J	162	7.4	16.9					4.9	7.9					
8/31/2017	XX	LTXXX38D	523	8	14.9					2	8.2					
11/16/2017	XX	LTXXX3A7	285	6.8	3.7					3.4	5.6					
6/21/2018	XX	LTXXX3C2	352	7	18.4					4.6	8.1					
8/16/2018	XX	LTXXX3CH	300	7.5	20.5					2.9	1.3					
11/29/2018	XX	LTXXX3FA	299	7.5	1.8					2.8	1.2					
6/6/2019	XX	LTXXX3H5	123	7.8	19.3					8.5	0.8					
8/15/2019	XX	LTXXX3I0	451	7.5	18.1					0.5	2.6					
10/24/2019	XX	LTXXX40D	231	7.6	11.5					2.3	2.1					
6/18/2020	XX	LTXXX428	343	7	21.4					3.2	1.6					
8/6/2020	XX	LTXXX433	476	7.5	21.9					4.2	3.6					
10/22/2020	XX	LTXXX45G	172	6.6	10.1					6.5	1.3					
6/24/2021	XX	LTXXX47B	402	6.7	16.3					5.8	1.8					
9/23/2021	XX	LTXXX496	142	7	18.3					6.8	1.8					
ND																
5/3/2000	XX	NDXX36649	D	D	D											
8/9/2000	XX	NDXX36747	D	D	D											
11/8/2000	XX	NDXX36838	D	D	D											
5/16/2001	XX	NDXX37027	D	D	D					D	D					
7/31/2001	XX	NDXX37103	D	D	D					D	D					
10/23/2001	XX	NDXX37187	D	D	D					D	D					
5/21/2002	XX	NDXX37397	D	D	D					D	D					
7/30/2002	XX	NDXX37467	D	D	D					D	D					
10/22/2002	XX	NDXX37551	D	D	D					D	D					
6/23/2003	XX	NDXX37795	D	D	D					D	D					
8/13/2003	XX	NDXX37846	D	D	D					D	D					
10/20/2003	XX	NDXX37914	D	D	D					D	D					
5/6/2004	XX	NDXX38113	D	D	D					D	D					
7/27/2004	XX	NDXX38195	D	D	D					D	D					
10/25/2004	XX	NDXX38285	D	D	D					D	D					
5/12/2005	XX	SWNDXX016	D	D	D					D	D					
7/25/2005	XX	SWNDXX021	D	D	D					D	D					
11/10/2005	XX	SWNDXX04A	162	8.58	2.8					14.5	16.5					
5/2/2006	XX	SWNDXX096	138.5	6.86	11.5					12.7	158					
8/3/2006	XX	SWNDXX07E	D	D	D					D	D					
10/18/2006	XX	SWNDXX062	D	D	D					D	D					
5/21/2007	XX	SWNDXX0AI	D	D	D			D		D	D					
8/8/2007	XX	SWNDXX0CB	D	D	D					D	D					
11/6/2007	XX	SWNDXX0E3	D	D	D					D	D					
6/11/2008	XX	SWNDXX0GB	264	7.57	19.9					7.6	9.4					
8/19/2008	XX	SWNDXX0IB	D	D	D			D		D	D					
10/22/2008	XX	SWNDXX0JJ	D	D	D					D	D					
5/18/2009	XX	SWNDXX11J	D	D	D					D	D					
8/17/2009	XX	SWNDXX13J	D	D	D					D	D					
10/29/2009	XX	SWNDXX157	D	D	D					D	D					
6/7/2010	XX	SWNDXX178	259	8.27	21.4					7.01	1.76					

SUMMARY REPORT

Field Parameters

(ND)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
8/18/2010	XX	SWNDXX199	D	D	D					D	D						
10/21/2010	XX	SWNDXX1AH	D	D	D					D	D						
5/18/2011	XX	SWXXXX1E9	186	7.5	9.4					6	0.4						
8/10/2011	XX	SWXXXX1G0	D	D	D					D	D						
11/2/2011	XX	SWXXXX1HB	D	D	D					D	D						
5/14/2012	XX	SWXXXX1J5	D	D	D					D	D						
8/14/2012	XX	SWXXXX20I	F6	F6	F6					F6	F6						
10/29/2012	XX	SWXXXX22C	D	D	D					D	D						
5/21/2013	XX	SWXXXX246	D	D	D					D	D						
7/24/2013	XX	SWXXXX260	D	D	D					D	D						
10/1/2013	XX	SWXXXX27E	D	D	D					D	D						
6/5/2014	XX	SWXXXX298	D	D	D					D	D						
8/21/2014	XX	SWXXXX2B2	D	D	D					D	D						
11/13/2014	XX	SWXXXX2CG	D	D	D					D	D						
6/4/2015	XX	SWXXXX2EC	D	D	D					D	D						
9/3/2015	XX	SWXXXX2G7	D	D	D					D	D						
11/5/2015	XX	SWXXXX2I1	I	I	I					I	I						
6/16/2016	XX	SWXXXX31B	D	D	D					D	D						
9/22/2016	XX	SWXXXX335	D	D	D					D	D						
11/10/2016	XX	SWXXXX34J	D	D	D					D	D						
6/15/2017	XX	SWXXXX36E	D	D	D					D	D						
8/31/2017	XX	SWXXXX388	D	D	D					D	D						
11/16/2017	XX	SWXXXX3A2	D	D	D					D	D						
6/21/2018	XX	SWXXXX3BH	D	D	D					D	D						
8/16/2018	XX	SWXXXX3CC	D	D	D					D	D						
11/29/2018	XX	SWXXXX3F5	D	D	D					D	D						
6/6/2019	XX	SWXXXX3H0	D	D	D					D	D						
8/15/2019	XX	SWXXXX3HF	D	D	D					D	D						
10/24/2019	XX	SWXXXX408	I	I	I					I	I						
6/18/2020	XX	SWXXXX423	D	D	D					D	D						
8/6/2020	XX	SWXXXX42I	D	D	D					D	D						
10/22/2020	XX	SWXXXX45B	D	D	D					D	D						
6/24/2021	XX	SWXXXX476	D	D	D					D	D						
9/23/2021	XX	SWXXXX49I	D	D	D					D	D						
PBFR																	
5/14/2012	XX	SWXXXX1J4	108	6.8	11.4					6	0.1						
8/14/2012	XX	SWXXXX20H	99	7.1	20.1					5	11.6						
10/29/2012	XX	SWXXXX22B	133	6.9	12.4					5	5.9						
5/21/2013	XX	SWXXXX245	50	7.3	13.8					6	1						
7/24/2013	XX	SWXXXX25J	57	6.3	22.8					5	1.8						
10/1/2013	XX	SWXXXX27D	70	6.4	13.7					5	1.2						
6/5/2014	XX	SWXXXX297	45	7.2	19.7					5	0.9						
8/21/2014	XX	SWXXXX2B1	49	7.5	19.8					6	2.1						
11/13/2014	XX	SWXXXX2CF	78	7.1	4.3					5	1.2						
6/4/2015	XX	SWXXXX2EB	112	7.5	12.3					6.9	1.5						
9/3/2015	XX	SWXXXX2G6	74	7.9	21.5					4	1.7						
11/5/2015	XX	SWXXXX2I0	55	7.6	6.3					9.2	1.1						
6/16/2016	XX	SWXXXX31A	54	7.9	17.2					5.6	2.3						
9/22/2016	XX	SWXXXX334	70	8.2	17.1					4.7	1.7						

SUMMARY REPORT

Field Parameters

(PBFR)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
11/10/2016	XX	SWXXX34I	109	8.6	4.4					9.3	1.1					
6/15/2017	XX	SWXXX36D	65	8.2	18					5.4	1.4					
8/31/2017	XX	SWXXX387	84	8.4	17.8					5.6	2.7					
11/16/2017	XX	SWXXX3A1	89	7.6	1.2					9.7	5.4					
6/21/2018	XX	SWXXX3BG	60	8.2	20.8					5	1.3					
8/16/2018	XX	SWXXX3CB	67	7.1	23.1					3.7	1.1					
11/29/2018	XX	SWXXX3F4	332	7.6	1.9					9.1	1.1					
6/6/2019	XX	SWXXX3GJ	156	7.3	21.5					5.8	0.6					
8/15/2019	XX	SWXXX3HE	61	8	21.7					8.1	0.8					
10/24/2019	XD	SWDP3X40G	378	3.8	11.6					7.1	0.8					
6/18/2020	XX	SWXXX422	53	7.6	26.4					5	1.1					
8/6/2020	XX	SWXXX42H	56	8.3	22.9					6.1	1.2					
10/22/2020	XX	SWXXX45A	105	7.9	10					11.3	0.8					
6/24/2021	XX	SWXXX475	53	7.6	17.6					7.3	0.8					
9/23/2021	XX	SWXXX490	54	6.4	20					4.7	0.7					
PBFB																
5/3/2000	XX	PBFBXX36649	50	6.61	12.2											
8/9/2000	XX	PBFBXX36747	56	6.35	21											
11/8/2000	XX	PBFBXX36838	44	7.29	9.7											
5/16/2001	XX	PBFBXX37027	37	6.75	10.5					8.4	1.7					
7/31/2001	XX	PBFBXX37103	47	7.38	28.7					7.3	2.8					
10/24/2001	XX	PBFBXX37188	147	6.96	12					5.5	2.5					
5/21/2002	XX	PBFBXX37397	322	7.13	14					9.1	0.5					
8/6/2002	XX	PBFBXX37474	63.5	7.03	21.3					2.9	2.7					
10/24/2002	XX	PBFBXX37553	70	6.42	4.8					3.7	0.7					
6/26/2003	XX	PBFBXX37798	48	6.81	23.2					7.43	1.8					
8/13/2003	XX	PBFBXX37846	48.7	7.03	25.3					4.8	2.04					
10/23/2003	XX	PBFBXX37917	40.3	6.92	4.6					3.9	1.86					
5/6/2004	XX	PBFBXX38113	53.2	7.23	12.2					4.4	1.94					
7/27/2004	XX	PBFBXX38195	49.6	7.48	15.8					6	3.33					
10/25/2004	XX	PBFBXX38285	48.3	8.84	7.1					5.6	4.48					
5/12/2005	XX	SWPBFB018	53	8.36	14.3					5.3	2					
7/25/2005	XX	SWPBFB030	60	8.51	18.8					4.2	3.4					
11/10/2005	XX	SWPBFB04C	38	9.02	5.7					4.2	1.8					
5/2/2006	XX	SWPBFB098	36.9	7.53	9.4					8.4	2.8					
8/3/2006	XX	SWPBFB07G	52	8.63	22.4					2.6	2.4					
10/18/2006	XX	SWPBFB064	40	8.61	8.7					8.2	3					
5/21/2007	XX	SWPBFB0B0	29	8.05	9.8					7.6	1.4					
8/8/2007	XX	SWPBFB0CD	55.2	6.62	20.2					5	2.6					
11/6/2007	XX	SWPBFB0E5	30.8	8.04	5.4					6.3	1.2					
6/11/2008	XX	SWPBFB0GD	27	7.1	14.2					5.9	7.6					
8/19/2008	XX	SWPBFB0ID	50	6.52	21					4.4	1.7					
10/22/2008	XX	SWPBFB101	48	6.96	4.5					7.8	1.8					
5/7/2009	XX	SWPBFB121	51.5	6.78	10.3					5.4	2.9					
8/12/2009	XX	SWPBFB141	54.2	6.8	15.7					2.3	3.6					
10/27/2009	XX	SWPBFB159	35.5	6.39	4.1					6.3	1.6					
6/7/2010	XX	SWPBFB17A	36	7.21	13.1					4.38	3.73					
8/18/2010	XX	SWPBFB19B	60.5	7.63	17.8						2.1					
10/21/2010	XX	SWPBFB1AJ	35.9	7.29	6.3					6.8	0.75					

SUMMARY REPORT

Field Parameters

(PBFB)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
5/18/2011	XX	SWXXXX1E7	33	7.8	12.9					8	1.2					
8/10/2011	XX	SWXXXX1FI	48	7.32	20.6					5	2.43					
11/2/2011	XX	SWXXXX1H9	45	7.2	6					8	19.8					
5/14/2012	XX	SWXXXX1J3	49	6.8	18.9					10	1.1					
8/14/2012	XX	SWXXXX20G	58	6.9	24.5					5	7					
10/29/2012	XX	SWXXXX22A	51	6.6	12.9					6	4					
5/21/2013	XX	SWXXXX244	48	7.1	15.3					6	1.5					
7/24/2013	XX	SWXXXX25I	63	5.8	24.8					6	2.2					
10/1/2013	XX	SWXXXX27C	110	7.1	22.4					5	1.1					
6/5/2014	XX	SWXXXX296	60	7	16.7					5	0.8					
8/21/2014	XX	SWXXXX2B0	50	7.8	18.8					4	2.6					
11/13/2014	XX	SWXXXX2CE	46	7.5	3.3					5	0.6					
6/4/2015	XX	SWXXXX2EA	46	8	13.7					7.1	2.1					
9/3/2015	XX	SWXXXX2G5	44	7.8	23.3					5.1	2.7					
11/5/2015	XX	SWXXXX2HJ	39	7.7	7					9.1	1.3					
6/16/2016	XX	SWXXXX319	69	8.2	17.3					5.9	2.7					
9/22/2016	XX	SWXXXX333	48	8	19.1					5.2	1.2					
11/10/2016	XX	SWXXXX34H	50	8.6	5.2					8.8	0.4					
6/15/2017	XX	SWXXXX36C	45	8	19.2					6.2	1.1					
8/31/2017	XX	SWXXXX386	58	8.1	19.3					6	1.2					
11/16/2017	XX	SWXXXX3A0	68	7.8	2.4					10.9	0.8					
6/21/2018	XX	SWXXXX3BF	49	7.6	22					4.9	1.3					
8/16/2018	XX	SWXXXX3CA	61	7.7	23.9					4.3	1.8					
11/29/2018	XX	SWXXXX3F3	71	8.1	1.2					11.4	0.8					
6/6/2019	XX	SWXXXX3GI	43	7.9	23.4					7.5	0.6					
8/15/2019	XX	SWXXXX3HD	48	7.9	22.8					9.1	1.1					
10/24/2019	XX	SWXXXX406	M7	7.7	11					7.6	1.3					
6/18/2020	XX	SWXXXX421	42	7	28.1					5	1.1					
8/6/2020	XX	SWXXXX42G	42	7.4	24.4					5.3	1.1					
10/22/2020	XX	SWXXXX459	48	7	10.4					9.1	0.9					
6/24/2021	XX	SWXXXX474	51	7.4	16.2					5.1	1.2					
9/23/2021	XX	SWXXXX48J	5.7	6.2	19.5					3.5	0.6					

SPO																
5/3/2000	XX	SPOXX36649	D	D	D											
8/9/2000	XX	SPOXX36747	D	D	D											
11/8/2000	XX	SPOXX36838	D	D	D											
5/16/2001	XX	SPOXX37027	D	D	D					D	D					
7/31/2001	XX	SPOXX37103	D	D	D					D	D					
10/23/2001	XX	SPOXX37187	D	D	D					D	D					
5/21/2002	XX	SPOXX37397	D	D	D					D	D					
7/30/2002	XX	SPOXX37467	D	D	D					D	D					
10/22/2002	XX	SPOXX37551	D	D	D					D	D					
6/23/2003	XX	SPOXX37795	D	D	D					D	D					
8/13/2003	XX	SPOXX37846	D	D	D					D	D					
10/20/2003	XX	SPOXX37914	D	D	D					D	D					
5/6/2004	XX	SPOXX38113	174.3	6.69	8.2					7.1	4.49					
7/27/2004	XX	SPOXX38195	D	D	D					D	D					
10/25/2004	XX	SPOXX38285	D	D	D					D	D					
5/12/2005	XX	SWSP0X01A	D	D	D					D	D					

SUMMARY REPORT

Field Parameters

(SPO)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
7/25/2005	XX	SWSP0X032	D	D	D					D	D					
11/10/2005	XX	SWSP0X04E	196	8.71	3.6					5	1.1					
5/2/2006	XX	SWSP0X09A	195.3	6.55	8.1					8.7	4.21					
8/3/2006	XX	SWSP0X07I	174	7.34	21.1					2.3	8.7					
10/18/2006	XX	SWSP0X066	121	8.36	8.5					5.6	5.9					
5/21/2007	XX	SWSP0X0B2	146	7.07	10.6					10	2.9					
8/9/2007	XX	SWSP0X0CF	D	D	D					D	D					
11/6/2007	XX	SWSP0X0E7	87	8.15	2.7					9.6	4.4					
6/11/2008	XX	SWSP0X0GF	72	5.83	17.9					4.3	12					
8/19/2008	XX	SWSP0X0GJ	D	D	D		D			D	D					
10/22/2008	XX	SWSP0X103	D	D	D					D	D					
5/7/2009	XX	SWSP0X123	159.2	7.1	11.9					6	4.9					
8/17/2009	XX	SWSP0X127	D	D	D					D	D					
10/27/2009	XX	SWSP0X15B	92.5	7.27	4.6					6.9	2.2					
6/7/2010	XX	SWSP0X17C	106	7.38	16.9					4.65	2.25					
8/18/2010	XX	SWSP0X17H	D	D	D					D	D					
10/21/2010	XX	SWSP0X1B1	D	D	D					D	D					
5/18/2011	XX	SWXXXX1EA	96	8	13.3					8	1.4					
8/10/2011	XX	SWXXXX1G1	D	D	D					D	D					
11/2/2011	XX	SWXXXX1HC	F6	F6	F6					F6	F6					
5/14/2012	XX	SWXXXX1J6	115	6.7	15.1					5	0.6					
8/14/2012	XX	SWXXXX20J	F6	F6	F6					F6	F6					
10/29/2012	XX	SWXXXX22D	114	6.8	12.7					3	2.7					
5/21/2013	XX	SWXXXX247	153	6.7	14.2					6	1.8					
7/24/2013	XX	SWXXXX261	99	6.1	22.7					6	2.8					
10/1/2013	XX	SWXXXX27F	I	I	I					I	I					
6/5/2014	XX	SWXXXX299	D	D	D					D	D					
8/21/2014	XX	SWXXXX2B3	I	I	I					I	I					
11/13/2014	XX	SWXXXX2CH	97	7.8	3.6					3	1.2					
6/4/2015	XX	SWXXXX2ED	101	7.5	13.2					4	2.2					
9/3/2015	XX	SWXXXX2G8	D	D	D					D	D					
11/5/2015	XX	SWXXXX2I2	94	7.4	5.4					8.3	1.2					
6/16/2016	XX	SWXXXX31C	D	D	D					D	D					
9/22/2016	XX	SWXXXX336	D	D	D					D	D					
11/10/2016	XX	SWXXXX350	I	I	I					I	I					
6/15/2017	XX	SWXXXX36F	I	I	I					I	I					
8/31/2017	XX	SWXXXX389	D	D	D					D	D					
11/16/2017	XX	SWXXXX3A3	D	D	D					D	D					
6/21/2018	XX	SWXXXX3B1	D	D	D					D	D					
8/16/2018	XX	SWXXXX3CD	D	D	D					D	D					
11/29/2018	XX	SWXXXX3F6	D	D	D					D	D					
6/6/2019	XX	SWXXXX3H1	134	7.5	21.2					8.5	0.8					
8/15/2019	XX	SWXXXX3HG	D	D	D					D	D					
10/24/2019	XX	SWXXXX409	105	7.8	11.8					7.8	0.9					
6/18/2020	XX	SWXXXX424	D	D	D					D	D					
8/6/2020	XX	SWXXXX42J	I	I	I					I	I					
10/22/2020	XX	SWXXXX45C	I	I	I					I	I					
6/24/2021	XX	SWXXXX477	D	D	D					D	D					
9/23/2021	XX	SWXXXX492	D	D	D					D	D					

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FOR: Dolby Landfill

SUMMARY REPORT

Field Parameters

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SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(SPON)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)					
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU					
SPON																
5/12/2005	XX	SWSPON01B	581	7.96	9.7					6.5	9.4					
7/25/2005	XX	SWSPON033	D	D	D					D	D					
11/10/2005	XX	SWSPON04F	674	8.03	2.1					8.7	4.6					
5/2/2006	XX	SWSPON09B	525	7.14	4					7.9	21.6					
8/3/2006	XX	SWSPON07J	1483	7.17	19.4					2	9.1					
10/18/2006	XX	SWSPON067	696	7.62	7.3					5.2	4.8					
5/21/2007	XX	SWSPON0B3	546	6.94	7.1					5.2	2.1					
8/9/2007	XX	SWSPON0CG	D	D	D					D	D					
11/6/2007	XX	SWSPON0E8	395	7.7	3.1					8.2	16.8					
6/11/2008	XX	SWSPON0GG	315	7.32	19					7.1	29.6					
8/19/2008	XX	SWSPON0H0	563	6.93	18.2					4.2	10.5					
10/22/2008	XX	SWSPON104	755	6.72	5.1					5.7	6.2					
5/7/2009	XX	SWSPON124	667	7.43	10.3					6	3.9					
8/12/2009	XX	SWSPON128	462	7.24	17.4					6.1	6.5					
10/27/2009	XX	SWSPON15C	446	6.2	3					10.6	3.1					
6/7/2010	XX	SWSPON17D	291	7.12	13.5					5.66	3					
8/18/2010	XX	SWSPON17I	D	D	D					D	D					
10/21/2010	XX	SWSPON1B2	694	7.18	7.3						1.82					
5/18/2011	XX	SWXXXX1EB	292	7.8	8.3					6	0.6					
8/10/2011	XX	SWXXXX1G2	D	D	D					D	D					
11/2/2011	XX	SWXXXX1HD	878	6.9	5.1					8	1.8					
5/14/2012	XX	SWXXXX1J7	287	7.1	11.3					5	2.4					
8/14/2012	XX	SWXXXX210	F6	F6	F6					F6	F6					
10/29/2012	XX	SWXXXX22E	753	6.7	12.2					6	8.2					
5/21/2013	XX	SWXXXX248	713	6.9	11.9					6	1.1					
7/24/2013	XX	SWXXXX262	412	6.4	19.3					5	2.8					
10/1/2013	XX	SWXXXX27G	709	7	15.9					6	2.6					
6/5/2014	XX	SWXXXX29A	843	7.2	13					3	0.6					
8/21/2014	XX	SWXXXX2B4	626	7.5	15.7					2	4.5					
11/13/2014	XX	SWXXXX2C1	672	7.3	2.3					3	0.8					
6/4/2015	XX	SWXXXX2EE	747	7.1	11					4	0.8					
9/3/2015	XX	SWXXXX2G9	812	7.6	18.8					5	2.2					
11/5/2015	XX	SWXXXX2I3	564	6.9	5.1					5.4	2.6					
6/16/2016	XX	SWXXXX31D	717	7.6	13.7					3.9	6.1					
9/22/2016	XX	SWXXXX337	D	D	D					D	D					
11/10/2016	XX	SWXXXX351	1213	7.8	4.9					9.4	7.8					
6/15/2017	XX	SWXXXX36G	647	7.7	15					5.2	2.1					
8/31/2017	XX	SWXXXX38A	D	D	D					D	D					
11/16/2017	XX	SWXXXX3A4	1033	7.1	2.6					11.5	1.3					
6/21/2018	XX	SWXXXX3BJ	D	D	D					D	D					
8/16/2018	XX	SWXXXX3CE	D	D	D					D	D					
11/29/2018	XX	SWXXXX3F7	227	7.6	1.2					8.3	0.6					
6/6/2019	XX	SWXXXX3H2	601	7.3	18.1					3.4	0.6					
8/15/2019	XX	SWXXXX3HH	481	7.5	17.5					3	0.8					
10/24/2019	XX	SWXXXX40A	473	7.7	8.5					7.9	1.1					
6/18/2020	XX	SWXXXX425	D	D	D					D	D					
8/6/2020	XX	SWXXXX430	I	I	I					I	I					
10/22/2020	XX	SWXXXX45D	317	7	8.8					9.5	0.6					

SUMMARY REPORT

Field Parameters

(SPON)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
6/24/2021	XX	SWXXXX478	D	D	D					D	D						
9/23/2021	XX	SWXXXX493	383	7	16.3					4.4	1.3						
SPOS																	
5/12/2005	XX	SWSP0501C	111	8.42	9.9					6.1	0.8						
7/25/2005	XX	SWSP05034	202	7.83	15.9					6.3	14.9						
11/10/2005	XX	SWSP0504G	109	8.8	2.5					11.4	1						
5/2/2006	XX	SWSP0509C	116.8	6.97	6.7					8.2	5.45						
8/3/2006	XX	SWSP05080	174	7.51	19.1					3	0.9						
10/18/2006	XX	SWSP05068	143	8.31	7.6					7.7	6.3						
5/21/2007	XX	SWSP050B4	102	7.68	7.3					9.7	0.7						
8/8/2007	XX	SWSP050CH	140	6.7	17.1					6	3.9						
11/6/2007	XX	SWSP050E9	102	7.71	3					12.1	0.8						
6/11/2008	XX	SWSP050GH	101	7.25	16					7.6	4.9						
8/19/2008	XX	SWSP050H1	195	6.87	17.2					3.6	1.1						
10/22/2008	XX	SWSP05105	185	7.12	4.5					7.8	0.8						
5/7/2009	XX	SWSP05125	125.7	6.64	8.9					4.9	0.8						
8/12/2009	XX	SWSP05129	171	6.9	16.5					3.5	0.8						
10/27/2009	XX	SWSP0515D	95.1	6.41	3.2					10.5	0.7						
6/7/2010	XX	SWSP0517E	116	7.22	12.9					7.08	0.97						
8/18/2010	XX	SWSP0517J	D	D	D					D	D						
10/21/2010	XX	SWSP051B3	149.7	7.07	6.5					8.66	0.37						
5/18/2011	XX	SWXXXX1EC	88	7.5	10.3					8	0.4						
8/10/2011	XX	SWXXXX1G3	D	D	D					D	D						
11/2/2011	XX	SWXXXX1HE	127	7.3	5.2					6	0.3						
5/14/2012	XX	SWXXXX1J8	137	7.5	9.7					8	0.3						
8/14/2012	XX	SWXXXX211	F6	F6	F6					F6	F6						
10/29/2012	XX	SWXXXX22F	143	6.9	12					2	3.1						
5/21/2013	XX	SWXXXX249	123	7	7.1					6	1.1						
7/24/2013	XX	SWXXXX263	120	6.4	18.8					5	0.8						
10/1/2013	XX	SWXXXX27H	171	6.9	13.3					6	0.8						
6/5/2014	XX	SWXXXX29B	173	7.2	13.3					4	0.3						
8/21/2014	XX	SWXXXX2B5	166	7.8	16.9					5	1.4						
11/13/2014	XX	SWXXXX2CJ	107	7.3	3.2					4	0.8						
6/4/2015	XX	SWXXXX2EF	132	8	10.5					6.5	0.3						
9/3/2015	XX	SWXXXX2GA	233	7.9	17.9					5.6	2.2						
11/5/2015	XX	SWXXXX2I4	97	7.4	4.6					9	1.3						
6/16/2016	XX	SWXXXX31E	D	D	D					D	D						
9/22/2016	XX	SWXXXX338	D	D	D					D	D						
11/10/2016	XX	SWXXXX352	261	8.3	5.3					8.8	0.8						
6/15/2017	XX	SWXXXX36H	172	8.1	16.7					5.8	3.6						
8/31/2017	XX	SWXXXX38B	D	D	D					D	D						
11/16/2017	XX	SWXXXX3A5	155	7.6	3.5					9.4	0.8						
6/21/2018	XX	SWXXXX3C0	191	7.8	20.1					5.3	1.6						
8/16/2018	XX	SWXXXX3CF	172	7.9	21.1					5.4	0.5						
11/29/2018	XX	SWXXXX3F8	135	8.1	1.9					10.5	0.6						
6/6/2019	XX	SWXXXX3H3	111	7.8	20.6					8.1	0.8						
8/15/2019	XX	SWXXXX3HI	169	8.1	19.6					9	1.6						
10/24/2019	XX	SWXXXX40B	106	7.8	9.7					9.2	1.2						
6/18/2020	XX	SWXXXX426	187	7.5	21.3					4.4	0.8						

(SPOS)			Specific Conductance	pH	Temperature	Water Level Depth	Water Level Elevation	Water Level Reference Point	Well Depth	Dissolved Oxygen	Turbidity (field)						
Date	Type	Sample ID	µmhos/cm @25°C	STU	Deg C	Feet	Feet	Feet	Feet	mg/L	NTU						
8/6/2020	XX	SWXXXX431	205	7.9	22.4					6.1	1.3						
10/22/2020	XX	SWXXXX45E	102	6.8	9.5					8.8	0.6						
6/24/2021	XX	SWXXXX479	122	6.9	17.2					6.6	0.9						
9/23/2021	XX	SWXXXX494	113	7.2	18					5.1	0.9						
UDLP																	
6/24/2021	XX	LFXXXX47J	788	7.1	16.5					1.5	0.5						
9/23/2021	XX	LFXXXX49F	538	6.6	17.9					1.6	0.6						

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- !- The sampling location was damaged or destroyed.
- A- The sampling location was Inaccessible
- D- The sampling location was dry.
- D3- Sample too dark to take reading.
- F- The sampling location was frozen.
- F6- No flow. Sample not taken.
- I- The sampling location yielded insufficient quantity to collect a sample.
- M7- No reading taken at this location.
- U- Not Detected above the laboratory reporting limit.
- Z3- Reference Point (Top of PVC) Changed.

SUMMARY REPORT

Inorganics

(104B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
104B													
4/27/2000	XX	104BXX36643	0.1 U	1 U		102	186	16.5	63.6	41	50.5	2.2	2.6
8/1/2000	XX	104BXX36739	0.1 U	1 U		95	1	17.9	39.5	47	50.5	1 U	3.9
10/24/2000	XX	104BXX36823	0.1 U	1 U		92	1	17	29.7	48	50.5	1 U	2.4
5/8/2001	XX	104BXX37019	0.1 U	1.5		91	5	17.4	29.9	48	51	1 U	2.6
7/24/2001	XX	104BXX37096	0.1 U	1 U		95	1 U	18.2	32.2	47	50	1 U	2
10/16/2001	XX	104BXX37180	0.1 U	1 U		89	1	16.4	31.5	46	50	1 U	2.9
5/15/2002	XX	104BXX37391	0.1 U	1 U		78	1 U	18.7	31.3	42	46	1 U	1.5
7/29/2002	XX	104BXX37466	0.1 U	1 U		100	1	17.9	32.5	48	50	1 U	2.2
10/15/2002	XX	104BXX37544	0.1 U	1 U		88	1 U	18.2	29.2	40	42	1 U	2.4
6/19/2003	XX	104BXX37791	0.2 U	2 U		80	1 U	18	73	44	51	1 U	2 U
8/5/2003	XX	104BXX37838	0.2 U	2 U		82	1 U	16	68	48	50	1 U	2 U
10/7/2003	XX	104BXX37901	0.2 U	2 U		75	1 U	17	62	44	50	1	2 U
4/26/2004	XX	104BXX38103	0.2 U	0.5 U		34	1 U	18	71	44	50	1	2.7
8/9/2004	XX	104BXX38208	0.2 U	2 U		82	1 U	16	62	47	49	1 U	3
10/11/2004	XX	104BXX38271	0.2 U	2 U		78	1 U	16	65	46	49	1 U	3
5/24/2005	XX	GW104B005	0.29	2 U		91	1 U	18	57	46	48	1 U	2
8/1/2005	XX	GW104B01H	0.2 U	2 U		140	1 U	15	59	42	46	1 U	2 U
10/25/2005	XX	GW104B039	0.2 U	2 U		79	1 U	16	67	49	51	1 U	2 U
5/10/2006	XX	GW104B085	0.2 U	2 U		70	1 U	18	75	44	47	1 U	2 U
7/24/2006	XX	GW104B06D	0.2 U	2 U		77	1 U	18	70	50	50	1 U	2 U
10/10/2006	XX	GW104B051	0.2 U	2 U		88	1 U	16	65	51	52	1 U	2 U
5/10/2007	XX	GW104B09H	0.9	0.5 U		98	1 U	15	64	52	54	1 U	2 U
8/6/2007	XX	GW104B0BA	0.2 U	0.5 U		78	1 U	15	70	46	47	1.8	2 U
10/24/2007	XX	GW104B0D2	0.2 U	0.5 U		100	1 U	16	62	37	37	1 U	2 U
10/24/2007	XD	GWDP2X0EJ	0.2 U	0.5 U		110	1 U	16	64		49	1 U	2 U
5/28/2008	XX	GW104B0FA	0.2 U	0.5 U		140	1 U	17	65	53	53	1 U	2 U
8/11/2008	XX	GW104B0HA	0.2 U	0.5 U		79	1 U	15	54	49	50	1 U	2 U
10/15/2008	XX	GW104B0II	0.2 U	0.5 U		110	1 U	17	57	48	49	1 U	2 U
10/15/2008	XD	GWDP1X106	0.2 U	0.5 U		100	1 U	17	57		49	1 U	2 U
5/6/2009	XX	GW104B10I	0.2 U	0.5 U		120	0.6 U	18	54	50	50	1 U	2 U
8/4/2009	XX	GW104B12I	0.2 U	0.5 U		100	2 U	17	51	49	50	1 U	2 U
10/19/2009	XX	GW104B146	0.2 U	0.5 U		35	1 U	18	59	48	49	1 U	2 U
5/25/2010	XX	GW104B167	0.2 U	0.5 U		91	1 U	15	57	49	49	1 U	2 U
5/25/2010	XD	GWDP1X15J	0.2 U	0.5 U		98	1 U	15	57		49	1 U	2 U
8/2/2010	XX	GW104B188	0.2 U	0.5 UH		87	1.1 U	17	57	50	50	1 U	2 U
10/12/2010	XX	GW104B19G	0.2 U	0.5 U		110	1.1 U	17	58	49	50	1 U	2 U
5/16/2011	XX	GW104B1DI	0.2 U	0.5 U		96	5 U	18	59	48	48	1 U	2 U
5/16/2011	XD	GWXXXX1EG	0.2 U	0.5 U		80	5 U	17	59	47	47	1 U	2 U
8/9/2011	XX	GW104B1F9	0.08 U	0.2 U		79	0.46 U	17	59	50	50	0.57 J	1.3 J
11/3/2011	XX	GW104B1H0	0.082 U	0.2 U		80	0.32 U	17	57	51	51	0.82 J	1.2 J
11/3/2011	XD	GWDP2X1HJ	0.082 U	0.2 U		56	0.32 U	17	51	50	50	0.63 J	1.2 U
5/14/2012	XX	GW104B1IE	0.2 U	0.5 U		64	2.5 U	15	57	47	47	1 U	2 U
5/14/2012	XD	GWXXXX1JC	0.2 U	0.5 U		70	2.5 U	16	59	47	47	1 U	2 U
8/14/2012	XX	GW104B207	0.2 U	0.25 U		74	2.5 U	15	52	46	46	1 U	1
8/14/2012	XD	GWDP1X215	0.2 U	0.25 U		82	2.7 U	15	51	48	48	1 U	1
10/31/2012	XX	GW104B221	0.2 U	0.25 U		140	2.5 U	15	59	43	43	0.64	1
5/22/2013	XX	GW104B23F	0.2 U	0.25 U		90	2.5 U	17	54	51	51	0.76	1.1
5/22/2013	XD	GWDP3X24F	0.2 U	0.25 U		88	2.5 U	16	42	48	48	0.67	1.2

SUMMARY REPORT

Inorganics

(104B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
7/23/2013	XX	GW104B259	0.2 U	0.25 U		85	2.5 U	16	62	51	51	0.6	1.1			
10/1/2013	XX	GW104B273	0.2 U	0.25 U		75	2.5 U	17	57	49	49	0.5 U	1.1			
6/4/2014	XX	GW104B28H	0.16	0.05 U		100	4 U	18	61.4	48	48	1 U	2.9			
6/4/2014	XD	GWDP3X29H	0.1 U	0.05 U		99	4 U	18	61.8	47	47	1 U	3.7			
8/19/2014	XX	GW104B2AB	0.1 U	0.05 U		97	4 U	17	63.1	50	50	1 U	2.6			
11/12/2014	XX	GW104B2C5	0.1 U	0.05 U		92	4 U	17	58.8	53	53	1 U	2 U			
6/3/2015	XX	GW104B2E1	0.1 U	0.05 U		90	4 U	16	58.3	47	47	1 U	2.5			
6/3/2015	XD	GWDP3X2F1	0.1 U	0.05 U		96	4 U	16	56.8	48	48	1 U	2.6			
9/2/2015	XX	GW104B2FG	0.1 U	0.074		87	4 U	16	63.5	49	49	1 U	2 U			
11/4/2015	XX	GW104B2HA	0.1 U	0.05 U		100	4 U	16	60.4	50	50	1 U	2			
6/14/2016	XD	GWDP3X320	0.1 U	0.088		94	4 U	17	62	46	46	1 U	3.4			
6/14/2016	XX	GW104B310	0.1 U	0.092		110	4 U	17	59.6	50	50	1 U	2 U			
9/20/2016	XX	GW104B32E	0.1 U	0.05 U		100	4 U	18	62.0	53	53	1 U	2.4			
11/8/2016	XX	GW104B348	0.1 U	0.05 U		94	4 U	19	63	57	57	1 U	2.5			
6/14/2017	XD	GWDP3X373	0.1 U	0.092		82	4 U	23	63.2	44	44	1 U	2.9			
6/14/2017	XX	GW104B363	0.1 U	0.11		66	4 U	18	62.2	49	49	1 U	3.1			
8/30/2017	XX	GW104B37H	0.1 U	0.065		100	4 U	17	62.2	49	49	1 U	2.6			
11/15/2017	XX	GW104B39B	0.1 U	0.05 U		85	4 U	16	62.2	52	52	1 U	2 U			
6/19/2018	XD	GWDP3X3C6	0.1 U	0.095		110	4 U	18	56.3	55	55	1 U	2 U			
6/19/2018	XX	GW104B3B6	0.1 U	0.096		110	4 U	18	60.6	52	52	1 U	2.2			
8/14/2018	XX	GW104B3DF	0.1 U	0.089		110	4 U	18	61.1	51	51	1 U	2 U			
11/27/2018	XX	GW104B3EE	0.1 U	0.05 U		87	4 U	19	64.2	53	53	1 U	3.2			
6/4/2019	XD	GWDP3X3H9	0.1 U	0.092		120	4 U	18	61.3	53	53	1 U	2 U			
6/4/2019	XX	GW104B3G9	0.1 U	0.092		100	4 U	18	66.8	54	54	1 U	2 U			
8/14/2019	XX	GW104B3II	0.1 U	0.076		120	4 U	18	63.5	53	53	1 U	3.4			
10/22/2019	XX	GW104B3JH	0.1 U	0.082		130	4 U	17	62.5	50	50	1 U	2.3			
6/16/2020	XD	GWDP3X42C	0.1 U	0.096		100	4 U	14	61.8	56	56	1 U	2 U			
6/16/2020	XX	GW104B41C	0.1 U	0.063		100	4 U	15	62.3	53	53	1 U	2 U			
8/4/2020	XX	GW104B441R							68.7							
8/4/2020	XX	GW104B441	0.1 U	0.06		53	4 U	14		53	53	1 U	2 U			
10/20/2020	XX	GW104B450	0.1 U	0.05 U		98	4 U	15	63.5	52	52	1 U	2 U			
6/22/2021	XD	GWDP3X47F	0.1 U	0.05 U		100	4 U	18	66.6	56	56	1 U	2 U			
6/22/2021	XX	GW104B46F	0.1 U	0.057		99	4 U	17	64.4	53	53	1 U	2 U			
9/21/2021	XX	GW104B48A	0.1 U	0.05 U		87	13	17	60.8	58	58	1 U	2 U			
107A																
5/3/2000	XX	107AXX36649	0.1 U	2		757	43	12.9	642.7	440	526.2	12.9	105			
8/10/2000	XX	107AXX36748	0.1 U	1.3		621	1	10.4	487	350	452.5	6.3	75.2			
11/9/2000	XX	107AXX36839	0.1 U	1.5		524	3	8	359.1	398	404	6.1	82.1			
5/16/2001	XX	107AXX37027	0.1 U	2		703	1	12.7	522.5	440	470	9.6	111			
8/1/2001	XX	107AXX37104	0.1 U	1.4		1324	5	11.2	1068	1000	1020	23.3	151.4			
10/24/2001	XX	107AXX37188	0.1 U	1.7		1834	7	11.4	1548.1	1429	1440	33.4	222			
5/22/2002	XX	107AXX37398	0.1 U	1.85		1811	6	15.4	1466.7	1210	1378	62.6	193			
8/2/2002	XX	107AXX37470	0.1 U	1.8		1831	3	10	1316	1320	1428	34.8	186.4			
10/23/2002	XX	107AXX37552	0.1 U	1 U		1360	3	14.6	1071.3	1100	1148	24.7	118.4			
6/24/2003	XX	107AXX37796	0.2 U	2 U		1400	2	11	1200	1000	1100	24	140			
8/13/2003	XX	107AXX37846	0.2 U	2 U		1300	1	9.1	1000	970	1000	21	110			
10/16/2003	XX	107AXX37910	0.2 U	2 U		1100	1 U	9.5	1000	900	950	18	98			
5/13/2004	XX	107AXX38120	0.2 U	2 U		540	1 U	8.4	600	420	450	6.5	47			
8/2/2004	XX	107AXX38201	0.2 U	2 U		440	1 U	9.6	420	405	430	6	36			

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(107A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/19/2004	XX	107AXX38279	0.2 U	2 U		480	1 U	9.8	460	420	460	5.6	45				
5/10/2005	XX	GW107A006	0.2 U	2 U		910	1 U	10	810	500	550	6.5	100				
7/27/2005	XX	GW107A011	0.2 U	2 U		910	1 U	9.5	850	615	690	11	93				
10/27/2005	XX	GW107A03A	0.2 U	2 U		610	3	8.8	640	530	620	7.1	57				
5/3/2006	XX	GW107A086	0.2 U	2 U		340	1 U	7.7	410	350	370	4	26				
8/1/2006	XX	GW107A06E	0.24	2 U		300	1 U	8.6	310	270	290	3.2	17				
10/25/2006	XX	GW107A052	0.2 U	2 U		280	1 U	8.4	200	240	260	2.9	14				
5/8/2007	XX	GW107A09I	0.5 U	0.5 U		310	1 U	7.5	290	290	310	1.5	15				
5/8/2007	XD	GWDP3X0EC	0.5 U	0.5 U		290	1 U	7.4	270		310	1.5	15				
8/7/2007	XX	GW107A0BB	0.2 U	0.5 U		430	1.2	6.5	340	280	320	11	22				
10/31/2007	XX	GW107A0D3	0.2 U	0.5 U		510	1 U	6.9	480	390	420	6.3	48				
5/28/2008	XX	GW107A0FB	0.2 U	0.5 U		500	1 U	8.4	430	360	380	5.1	41				
8/18/2008	XX	GW107A0HB	0.2 U	0.5 U		440	1 U	7.3	310	350	380	5.5	22				
10/23/2008	XX	GW107A0IJ	0.2 U	0.5 U		330	1 U	7	310	270	290	5.2	23				
5/12/2009	XX	GW107A10J	0.2 U	0.5 U		300	0.6 U	6.9	240	250	270	3.9	15				
5/12/2009	XD	GWDP3X10C	0.2 U	0.5 U		300	0.6 U	7	260		270	2.2	15				
8/11/2009	XX	GW107A12J	0.2 U	0.5 U		320	0.6 U	7.4	270	270	290	4.2	17				
10/26/2009	XX	GW107A147	0.2 U	0.5 U		400	1 U	6.4	260	270	290	4.3	37				
6/2/2010	XX	GW107A168	0.2 U	0.5 U		310	1 U	6.2	290	245	260	6.1	20				
8/5/2010	XX	GW107A189	0.2 U	0.5 U		360	1.1 U	5.9	300	290	320	4.2	25				
8/5/2010	XD	GWDP3X182	0.2 U	0.5 U		360	1 U	6	310		320	2.7	25				
10/18/2010	XX	GW107A19H	0.2 U	0.5 U		580	1.2 U	6.7	390	450	480	13	57				
5/18/2011	XX	GW107A1D8	0.2 U	0.5 U		680	5 U	7.3	440	550	550	16	83				
8/9/2011	XX	GW107A1EJ	0.08 U	0.2 U		450	0.7 J	6	260	380	380	9	40				
11/2/2011	XX	GW107A1GA	0.082 U	0.2 U		410	0.32 U	6	300	360	360	6.9	36				
5/17/2012	XX	GW107A1I4	0.2 U	0.09 U		418	2.5 U	6.4	380	420	420	6.81	54				
8/14/2012	XX	GW107A1JH	0.2 U	0.25 U		720	2.6 U	5	430	590	590	11.1	60				
10/31/2012	XX	GW107A21B	0.2 U	0.25 U		680	2.5 U	4.9	490	540	540	9.3	62				
5/21/2013	XX	GW107A235	0.2 U	0.25 U		740	2.5 U	6.2	510	580	580	10	77				
7/22/2013	XX	GW107A24J	0.2 U	0.25 U		710	2.5 U	5.8	440	500	500	7.6	58				
10/1/2013	XX	GW107A26D	0.2 U	0.25 U		580	2.5 U	5.4	390	500	500	6.8	45				
6/4/2014	XX	GW107A287	0.1 U	0.05 U		320	4 U	12	222	250	250	1.7	24				
8/19/2014	XX	GW107A2A1	0.1 U	0.05 U		680	4.8	8.1	386	560	560	6.6	47				
11/12/2014	XX	GW107A2BF	0.16	0.05 U		780	4 U	6.5	465	560	560	8	47				
6/3/2015	XX	GW107A2DB	0.1 U	0.05 U		540	4 U	7.3	509	430	430	13	72				
9/2/2015	XX	GW107A2F6	0.1	0.05 U		710	4 U	6.9	476	590	590	11	46				
11/4/2015	XX	GW107A2H0	0.11	0.05 U		780	4 U	1 U	536	670	670	11	45				
6/15/2016	XX	GW107A30A	0.1 U	0.05 U		420	4 U	6.6	315	330	330	4.1	19				
9/20/2016	XX	GW107A324	0.63	0.05 U		420	4 U	6.6	299	360	360	5.2	18				
11/8/2016	XX	GW107A33I	2.2	0.05 U		510	4 U	3.5	420	540	540	10	32				
6/14/2017	XX	GW107A35D	0.26	0.15		930	4 U	1 U	867	900	900	25	88				
8/29/2017	XX	GW107A377	0.59	0.05 U		930	4	1 U	720	840	840	17	57				
11/15/2017	XX	GW107A39I	1.5	0.05 U		880	4 U	1 U	682	880	880	16	42				
6/19/2018	XX	GW107A3AG	0.17	0.05 U		770	4 U	4.1	476	670	670	12	45				
8/16/2018	XX	GW107A3D5	0.36	0.05 U		670	4 U	2.3	548	660	660	9.5	36				
11/28/2018	XX	GW107A3E4	0.92	0.21		560	4 U	6.2	448	560	570	7.8	27				
6/5/2019	XX	GW107A3FJ	0.1 U	0.22		760	4 U	3.4	419	570	570	6.5	56				
8/14/2019	XX	GW107A3I8	0.21	0.05 U		610	4 U	10	470	540	540	7.9	36				
10/23/2019	XX	GW107A3J7	0.92	0.05 U		540	4 U	6.2	474	500	500	7.6	24				
6/17/2020	XX	GW107A412	0.35	0.05 U		580	4 U	5.8	399	570	570	7.2	39				

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(107A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
8/4/2020	XX	GW107A43B	0.6	0.05 U		530	4 U	7.3		520	520	6.7	28			
8/4/2020	XX	GW107A43BR							445							
10/22/2020	XX	GW107A44A	5.6	0.05 U		930	4 U	1 U	780	1000	1000	21	54			
6/22/2021	XX	GW107A465	2.2	0.05 U		860	4 U	1 U	626	930	930	13	46			
9/21/2021	XX	GW107A480	3.2	0.05 U		1100	5.6	1 U	783	1100	1100	18	54			
202AR																
4/27/2000	XX	202ARXX36643	2.42	2.2		1046	17	7	984.8	820	985.8	15.1	38.4			
8/2/2000	XX	202ARXX36740	2.21	1.7		1095	4	7.5	998.6	920	1056.5	14.7	35.6			
10/24/2000	XX	202ARXX36823	1.22	2.7		1043	3	6	933.3	950	1090.8	18.2	38.1			
5/9/2001	XX	202ARXX37020	1.69	2.7		1128	2	7.9	944.2	1000	1060	14.1	41.2			
7/24/2001	XX	202ARXX37096	0.784	1 U		1142	2	7.5	946.8	1020	1075	13.6	27.9			
10/16/2001	XX	202ARXX37180	1.37	1 U		1176	2	2.5	1126	1105	1110	12.6	37.7			
5/16/2002	XX	202ARXX37392	1.28	1 U		1135	1	9.9	1061.2	990	1060	13	38.8			
7/31/2002	XX	202ARXX37468	2.02	1 U		1118	3	9.7	469.3	952.5	1036	15.2	28.9			
10/16/2002	XX	202ARXX37545	2.14	1 U		1129	5	12.5	943.4	1000	1064	14.9	34.2			
6/17/2003	XX	202ARXX37789	2.8	2 U		1100	2	10	1100	960	1000	11	34			
8/6/2003	XX	202ARXX37839	2.6	2 U		1000	2	8.6	1100	970	1000	15	24			
10/8/2003	XX	202ARXX37902	2.8	2 U		1100	2	9.4	1100	920	1000	14	27			
4/28/2004	XX	202ARXX38105	1.8	2 U		1100	1 U	8.5	1200	920	960	14	33			
8/11/2004	XX	202ARXX38210	4.1	2 U		950	3	8.4	1000	930	1000	14	26			
10/12/2004	XX	202ARXX38272	3.6	2 U		1000	1 U	7.2	1100	920	1000	21	23			
5/19/2005	XX	GW202A009	3.8	2 U		1100	7	7.7	950	900	980	10	31			
8/4/2005	XX	GW202A021	4.3	2 U		1000	1 U	6.6	890	98	100	11	23			
10/25/2005	XX	GW202A03D	3.3	2 U		1000	6	6.4	1100	940	1000	13	26			
5/9/2006	XX	GW202A089	1.4	2 U		1000	8.5	6.6	1700	1000	1000	13	27			
7/25/2006	XX	GW202A06H	3.6	2 U		1000	2.6	6.3	1300	820	860	13	21			
10/19/2006	XX	GW202A055	3.8	2 U		1000	1.7	5.3	1000	960	1000	12	22			
5/10/2007	XX	GW202A0A1	3.6	0.5 U		1000	3.1	5.1	1100	1040	1100	8.4	25			
8/6/2007	XX	GW202A0BE	4.8	0.5 U		1000	1.8	4.4	1200	960	1000	47	23			
10/25/2007	XX	GW202A0D6	2	0.5 U		1000	3.7	5.4	1400	920	1000	18	24			
5/29/2008	XX	GW202A0FE	2.1	0.5 U		990	1 U	5.3	1000	920	1000	11	23			
8/12/2008	XX	GW202A0HE	1.9	0.5 U		1000	1.4	5.5	950	920	1000	15	19			
8/12/2008	XD	GWDP1X0H2	1.8	0.5 U		1000	1.1	5.4	900		1000	15	20			
10/16/2008	XX	GW202A0J2	1.7	0.5 U		950	1.9	5.6	830	950	990	11	21			
5/4/2009	XX	GW202A112	2.9	0.5 U		1000	0.6 U	5.3	1200	940	1000	19	23			
8/5/2009	XX	GW202A132	2.8	0.5 U		1100	2 U	5.2	1300	920	1000	14	24			
8/5/2009	XD	GWDP1X12A	2.7	0.5 U		1100	2	4.9	1300		1000	18	23			
10/20/2009	XX	GW202A14A	2.2	0.5 U		980	1.9	4.7	840	910	970	19	23			
5/26/2010	XX	GW202A16B	2.4	0.5 U		890	1.8	4	1100	880	920	11	19			
8/2/2010	XX	GW202A18C	2.3	0.5 UH		930	1.4	4.2	1000	920	980	15	22			
10/12/2010	XX	GW202A1A0	2.8	0.5 U		970	1.7	4.5	860	920	990	19	23			
5/17/2011	XX	GW202A1DJ	2.1	0.5 U		990	5 U	3.8	920	920	920	20	26			
8/10/2011	XX	GW202A1FA	2.7	0.2 U		910	2.4 J	5.2	870	920	920	16	23			
8/10/2011	XD	GWDP1X1G7	2.6	0.2 U		890	2.8 J	4.3	860	950	950	16	22			
11/3/2011	XX	GW202A1H1	2.9	0.2 U		960	2.7	5.8	820	990	990	16	22			
5/16/2012	XX	GW202A1IF	2.6	0.5 U		940	2.5 U	1 U	820	860	860	11.1	20			
8/15/2012	XX	GW202A208	2.9	0.25 U		920	2.5 U	4.3	770	890	890	12.4	17			
10/31/2012	XX	GW202A222	3.4	0.25 U		940	2.5	4.1	840	960	960	12	18			
5/20/2013	XX	GW202A23G	2.7	0.25 U		950	2.5 U	4.4	780	930	930	11	18			

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(202AR)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7/23/2013	XX	GW202A25A	2.9	0.25 U		920	2.5 U	4.2	790	890	890	10	16				
10/2/2013	XX	GW202A274	3.1	0.25 U		910	2.6	4.3	790	930	930	10	16				
6/3/2014	XX	GW202A281	3.4	0.05 U		940	4 U	1 U	818	890	890	8.9	18				
8/19/2014	XX	GW202A2AC	3.8	0.05 U		940	4 U	1 U	812	910	910	9	17				
11/12/2014	XX	GW202A2C6	4.1	0.05 U		950	4 U	1 U	846	940	940	9.1	18				
6/2/2015	XX	GW202A2E2	3.3	0.05 U		960	4.8	1 U	813	880	880	8.9	22				
9/2/2015	XX	GW202A2FH	3.6	0.05 U		910	4 U	1 U	864	870	870	9.8	18				
11/3/2015	XX	GW202A2HB	3.5	0.05 U		950	4 U	1.6	839	930	930	9.6	18				
6/14/2016	XX	GW202A311	3.1	0.05 U		900	4.4	1 U	815	830	830	7.5	17				
9/22/2016	XX	GW202A32F	3.5	0.05 U		900	4 U	1 U	800	810	810	8.6	18				
11/9/2016	XX	GW202A349	3.5	0.05 U		840	4 U	1 U	818	900	900	9.7	16				
6/13/2017	XX	GW202A364	3.6	0.05 U		920	4 U	1 U	822	870	870	9.4	18				
8/30/2017	XX	GW202A371	3.7	0.05 U		900	4 U	1 U	801	880	880	8.9	16				
11/16/2017	XX	GW202A39C	3.5	0.05 U		860	4 U	1 U	822	830	830	8.6	17				
6/20/2018	XX	GW202A3B7	3.5	0.05 U		920	4 U	1 U	849	900	900	8.8	18				
8/14/2018	XX	GW202A3DG	3.6	0.05 U		920	4 U	1.1	802	890	890	8.9	16				
6/4/2019	XX	GW202A3GA	3.5	0.05 U		950	4 U	1 U	804	860	860	9.2	15				
8/13/2019	XX	GW202A3IJ	3.4	0.05 U		880	4 U	1 U	802	910	910	9.4	18				
10/24/2019	XX	GW202A3JI	3.2	0.05 U		860	5.6	1 U	784	850	850	9.5	15				
6/16/2020	XX	GW202A41D	3	0.05 U		920	4 U	1 U	795	940	940	9.3	15				
8/5/2020	XX	GW202A442	3.2	0.05 U		850	4.4	2.1	874	860	860	9.5	15				
10/22/2020	XX	GW202A451	3.6	0.05 U		880	4 U	1 U	864	870	870	9.8	14				
6/23/2021	XX	GW202A46G	3	0.82		900	4 U	1 U	846	900	900	10	16				
9/23/2021	XX	GW202A48B	3.5	0.05 U		820	4 U	1 U	794	910	910	9.8	15				
202B & 202BR																	
4/27/2000	XX	202BXX36643	1.9	1.4		538	247	6.7	478.6	410	474.7	10.4	20.6				
8/2/2000	XX	202BXX36740	3	1.7		986	7	7	840.3	810	923.1	19.2	35.5				
10/24/2000	XX	202BXX36823	2.52	2.8		1241	56	5.5	962.4	1100	1196.9	24.6	55.3				
5/9/2001	XX	202BXX37020	1.35	2.2		752	6	8.2	599.7	660	692.5	13.4	33.9				
7/25/2001	XX	202BXX37097	0.424	1 U		1200	10	5.8	1001.5	1130	1130	15.2	37.5				
10/16/2001	XX	202BXX37180	1.04	3.2		1021	8	14.4	779.5	904	910	11.8	42.2				
5/16/2002	XX	202BXX37392	1.15	1 U		695	1	9.1	648.8	530	635	10.1	28.3				
7/31/2002	XX	202BXX37468	1.71	1 U		1008	1	15.2	879.5	847.5	916	17.2	33.5				
10/16/2002	XX	202BXX37545	1.47	1.7		1039	15	17.3	893.2	850	952	17.2	37.8				
6/17/2003	XX	202BXX37789	2	2 U		670	20	10	350	590	640	11	23				
8/6/2003	XX	202BXX37839	2.1	2 U		820	1 U	12	930	720	750	15	23				
10/8/2003	XX	202BXX37902	2.8	4.4		920	1 U	12	860	780	830	16	27				
4/28/2004	XX	202BXX38105	1.8	2 U		630	1 U	8.9	730	540	560	11	22				
8/11/2004	XX	202BXX38210	4.6	2 U		870	1 U	9.7	990	880	960	17	30				
10/12/2004	XX	202BXX38272	4.9	2 U		1000	1 U	9	1100	920	1000	33	31				
5/19/2005	XX	GW202B00A	2.6	2 U		510	4	6.5	530	440	480	7.1	15				
8/4/2005	XX	GW202B022	4	2 U		770	22	8	720	680	710	13	9.4				
10/25/2005	XX	GW202B03E	2.3	2 U		660	22	7.2	580	680	730	12	25				
5/9/2006	XX	GW202B08A	0.2 U	2 U		500	5	5.7	590	470	500	10	14				
7/25/2006	XX	GW202B06I	3.8	2 U		560	21	6.2	690	540	570	11	17				
10/19/2006	XX	GW202B056	2.8	2 U		810	43	6	830	780	810	14	22				
5/10/2007	XX	GW202B0A2	2.2	0.5 U		500	17	4.3	490	520	550	4.9	12				
5/10/2007	XD	GWDP1X0EA	2.4	0.5 U		510	51	4.4	480		540	4.6	12				
8/6/2007	XX	GW202B0BF	5.4	0.5 U		770	540	4.9	800	740	770	47	21				

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(202B & 202BR)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/25/2007	XX	GW202B0D7	1.2	1.2		680	32	6.4	640	640	680	14	20				
5/29/2008	XX	GW202B0FF	1.6	0.5 U		440	9.7	5.3	460	440	460	12	9.6				
8/26/2008	XX	GW202B0HF	1.8	0.5 U		470	19	4.9	410	460	490	8.1	11				
10/16/2008	XX	GW202B0J3	1.9	0.5 U		640	22	5.8	490	640	670	16	18				
5/4/2009	XX	GW202B113	2.1	10		480	41	33	580	430	460	9	44				
8/5/2009	XX	GW202B133	2.4	0.5 U		490	9.6	4.3	630	450	480	8.6	12				
10/20/2009	XX	GW202B14B	1.9	0.5 U		640	1 U	5.4	480	660	700	16	21				
5/26/2010	XX	GW202B16C	1.9	0.5 U		490	12	4.3	490	470	500	12	13				
8/2/2010	XX	GW202B18D	2.7	0.5 UH		680	46	4.8	170	670	700	13	19				
10/12/2010	XX	GW202B1A1	0.2 U	2.6		570	2.8	4.9	440	480	500	12	15				
5/17/2011	XX	GW202B1E0	1.1	0.5 U		380	4.2 U	4.7	240	370	370	7.5	9.6				
8/10/2011	XX	GW202B1FB	2.1	0.2 U		690	4.6	7.6	550	720	720	15	22				
11/3/2011	XX	GW202B1H2	1.8	0.2 U		480	4.2	6.5	420	500	500	11	11				
5/16/2012	XX	GW202B1IG	1.5	0.5 U		390	5	4.9	360	400	400	5.66	7.7				
8/15/2012	XX	GW202B209	2.3	0.25 U		650	2.5 U	5.7	580	660	660	10.5	15				
10/31/2012	XX	GW202B223	1.2	0.25 U		380	8.8	3.8	400	400	400	8.4	8.3				
5/20/2013	XX	GW202B23H	1.4	0.25 U		430	14	4.3	350	420	420	5.9	8.3				
7/23/2013	XX	GW202B25B	1.8	0.25 U		460	19	4.4	400	480	480	6.7	9.6				
10/2/2013	XX	GW202B275	2.3	0.25 U		550	4.5	4.5	410	580	580	7.4	12				
6/3/2014	XX	GW202B28J	2	0.05 U		490	16	4	383	460	460	4.6	12				
8/19/2014	XX	GW202B2AD	3.3	0.05 U		760	84	1 U	644	730	730	8.5	17				
11/12/2014	XX	GW202B2C7	2.1	1.2		710	12	1.7	624	700	700	7.7	18				
6/2/2015	XX	GW202B2E3	1.7	0.05 U		440	26	6.2	347	390	390	4	10				
9/2/2015	XX	GW202B2FI	3.3	0.05 U		760	29	3.3	694	710	710	9.8	17				
11/3/2015	XX	GW202B2HC	2.7	0.1		620	10	1.2	562	600	600	7.3	15				
6/14/2016	XX	GW202B312	1.8	0.05 U		480	8	3.3	404	410	410	4.4	10				
9/22/2016	XX	GW202B32G	1	1		1	1	1	1	1	1	1	1				
11/9/2016	XX	GW202B34A	1	1		1	1	1	1	1	1	1	1				
6/13/2017	XX	GW202B365	1.6	0.05 U		560	5.6	8.4	472	480	480	5.4	13				
8/30/2017	XX	GW202B37J	1	1		1	1	1	1	1	1	1	1				
11/16/2017	XX	GW202B39D	1.9	0.16		720	14	15	673	670	670	9.2	17				
6/20/2018	XX	GW202B3B8	2	0.05 U		550	17	19	398	510	510	5.2	13				
8/14/2018	XX	GW202B3DH	2.9	0.35		780	4 U	27	675	730	730	7.5	14				
11/27/2018	XX	GW202B3EG	2.2	0.14		710	13	23	674	690	700	8	17				
6/4/2019	XX	GW202B3GB	1.5	0.05 U		390	8.8	15	320	360	360	3.7	6.5				
8/13/2019	XX	GW202B3J0	2.6	0.052		600	4 U	18	539	610	610	6.9	14				
10/24/2019	XX	GW202B3JJ	2.3	0.24		620	6.8	16	446	570	570	7.3	14				
6/16/2020	XX	GW202B41E	!	!		!	!	!	!	!	!	!	!				
8/5/2020	XX	GW202B443	!	!		!	!	!	!	!	!	!	!				
10/22/2020	XX	GW202B452	!	!		!	!	!	!	!	!	!	!				
6/23/2021	XX	GW202B46H	!	!		!	!	!	!	!	!	!	!				
9/23/2021	XX	GW202B48C	4.5	0.074		950	5.6	1 U	922	1000	1000	14	21				
205A																	
4/27/2000	XX	205AXX36643	0.217	1.7		265	6	8.9	222.7	160	189.9	3	30.9				
8/2/2000	XX	205AXX36740	0.348	1.8		435	5	6.4	307.78	280	322.2	4.9	57				
10/25/2000	XX	205AXX36824	0.297	2		351	1	3.1	200.6	230	240.4	4.7	52.8				
5/9/2001	XX	205AXX37020	0.157	3		382	1	6.3	235.2	235	252	5	62.1				
7/25/2001	XX	205AXX37097	0.1 U	1 U		372	1	8.3	249.3	230	253	3.4	48				
10/17/2001	XX	205AXX37181	0.147	1 U		319	1	4.9	237.3	215	222	3.1	54.9				

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(205A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
5/15/2002	XX	205AXX37391	0.184	1 U		510	1 U	5.3	380.9	330	376	5	74.5				
8/1/2002	XX	205AXX37469	0.1 U	1 U		452	3	7.6	292.4	280	309	63.7	53				
10/16/2002	XX	205AXX37545	0.173	1 U		405	3	5.9	274.9	270	296	4.3	59.8				
6/19/2003	XX	205AXX37791	0.42	2 U		460	4	11	480	370	390	5.6	57				
8/20/2003	XX	205AXX37853	0.34	2 U		320	3	8.8	340	290	310	5.2	45				
10/9/2003	XX	205AXX37903	0.29	2 U		240	1 U	9.4	330	230	250	4.9	41				
4/27/2004	XX	205AXX38104	0.2 U	2 U		290	1 U	9.2	400	260	270	7.7	45				
8/12/2004	XX	205AXX38211	0.46	2 U		260	1 U	12	610	190	200	3.9	34				
10/14/2004	XX	205AXX38274	0.2 U	2 U		320	1 U	9.3	330	230	250	6	47				
5/17/2005	XX	GW205A00B	0.34	2 U		95	1 U	10	450	260	290	4.3	48				
8/4/2005	XX	GW205A023	0.55	2 U		390	1 U	10	440	230	250	5.7	38				
10/27/2005	XX	GW205A03F	0.2 U	2 U		320	3.5	8.8	410	280	310	4.5	42				
5/9/2006	XX	GW205A08B	0.2 U	2 U		400	3.5	11	480	340	360	4.4	40				
7/25/2006	XX	GW205A06J	0.3	2 U		540	3	12	580	480	500	5.7	43				
10/23/2006	XX	GW205A057	0.35	2 U		370	2	9.4	330	270	290	3.3	35				
5/14/2007	XX	GW205A0A3	0.2 U	2 U		520	3.5	11	460	480	500	2.2	39				
8/16/2007	XX	GW205A0BG	0.5 U	0.5 U		490	1.7	9	410	380	40	14	37				
8/16/2007	XD	GWDP1X0EE	0.5 U	0.5 U		480	1.8	9.2	380		38	9.8	37				
10/25/2007	XX	GW205A0D8	0.2 U	0.5 U		400	1.9	9.7	400	330	350	4.2	39				
5/29/2008	XX	GW205A0FG	0.2 U	0.5 U		530	1.9	11	510	470	500	7.8	36				
8/12/2008	XX	GW205A0HG	0.2 U	0.5 U		550	2.1	11	450	480	500	4.9	33				
10/16/2008	XX	GW205A0J4	0.2 U	0.5 U		470	1.6	11	410	420	440	5.8	32				
10/16/2008	XD	GWDP2X107	0.2 U	0.5 U		480	2.3	12	410		440	5.3	32				
5/4/2009	XX	GW205A114	0.2 U	10		530	2.9	33	520	425	450	5.8	44				
8/5/2009	XX	GW205A134	0.2 U	0.5 U		530	2 U	11	560	440	470	4.9	33				
10/20/2009	XX	GW205A14C	0.2 U	0.5 U		430	1 U	12	350	360	380	4.6	33				
5/26/2010	XX	GW205A16D	0.2 U	0.5 U		480	1.4	10	480	390	410	5.4	29				
5/26/2010	XD	GWDP2X160	0.2 U	0.5 U		460	2	9.6	400		410	5	28				
8/3/2010	XX	GW205A18E	0.2 U	0.5 U		430	2.1	11	350	350	360	3.9	33				
10/13/2010	XX	GW205A1A2	0.2 U	0.5 U		360	1.2 U	9.9	240	240	260	2.3	34				
5/17/2011	XX	GW205A1E1	0.2 U	0.5 U		440	4.2 U	10	380	380	380	4.1	35				
8/9/2011	XX	GW205A1FC	0.08 U	0.2 U		450	1.5 J	10	250	380	380	4	39				
11/3/2011	XX	GW205A1H3	0.12 J	0.2 U		390	1.16 J	10	300	330	330	4	35				
5/16/2012	XX	GW205A11H	0.2 U	0.5 U		320	2.5 U	13	250	240	240	2.15	36				
8/16/2012	XX	GW205A20A	0.2 U	0.25 U		380	2.6 U	9.5	270	290	290	3.09	37				
10/30/2012	XX	GW205A224	0.2 U	0.25 U		300	2.5 U	7.8	260	240	240	2.2	37				
5/20/2013	XX	GW205A23I	0.2 U	0.25 U		320	2.5 U	9.2	210	230	230	1.7	41				
7/23/2013	XX	GW205A25C	0.2 U	0.25 U		340	2.5 U	8.8	240	230	230	2.2	41				
10/2/2013	XX	GW205A276	0.2 U	0.25 U		270	2.5 U	7.8	190	190	190	1.7	41				
6/3/2014	XX	GW205A290	0.24	0.05 U		310	4 U	8.8	188	190	190	1.4	43				
8/19/2014	XX	GW205A2AE	0.32	0.05 U		340	4 U	7.3	234	200	210	1.5	44				
11/12/2014	XX	GW205A2C8	0.34	0.05 U		290	4 U	8.2	216	200	200	1.4	40				
6/2/2015	XX	GW205A2E4	0.18	0.05 U		300	4 U	8.5	211	200	200	1.4	42				
9/2/2015	XX	GW205A2FJ	0.35	0.05 U		270	4 U	7.9	216	190	190	1.5	39				
11/3/2015	XX	GW205A2HD	0.37	0.05 U		250	4 U	8.2	218	190	190	1.5	43				
6/14/2016	XX	GW205A313	0.2	0.05 U		310	4 U	9.5	233	200	200	1.4	44				
9/21/2016	XX	GW205A32H	0.34	0.05 U		280	4 U	8.5	206	170	170	2.1	42				
11/9/2016	XX	GW205A34B	0.32	0.05 U		260	4 U	7.7	220	200	200	2	40				
6/13/2017	XX	GW205A366	0.1 U	0.05 U		340	4 U	10	220	200	200	1.4	40				
8/30/2017	XX	GW205A380	0.19	0.05 U		320	4 U	9.3	228	210	210	1.3	40				

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(205A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
11/16/2017	XX	GW205A39E	0.36	0.05 U		260	4 U	7.7	213	180	180	1.3	41				
6/19/2018	XX	GW205A3B9	0.1 U	0.05 U		340	4 U	11	228	220	220	1.1	40				
8/14/2018	XX	GW205A3D1	0.18	0.05 U		300	4 U	8.9	210	190	190	1.4	44				
11/27/2018	XX	GW205A3EH	0.14	0.075		240	4 U	9.3	199	170	170	1.5	40				
6/4/2019	XX	GW205A3GC	0.1 U	0.05 U		300	4 U	9.4	217	200	200	1.3	38				
8/13/2019	XX	GW205A3J1	0.13	0.05 U		280	4 U	7.9	215	210	210	1.3	41				
10/23/2019	XX	GW205A400	0.29	0.05 U		250	4 U	7.5	212	170	170	1.6	38				
6/16/2020	XX	GW205A41F	0.12	0.05 U		290	4 U	7.4	219	230	230	1.2	38				
8/5/2020	XX	GW205A444	0.13	0.05 U		260	4 U	6.8	225	220	220	1.5	36				
10/20/2020	XX	GW205A453	0.16	0.05 U		270	4 U	7.1	215	180	180	1.3	36				
6/23/2021	XX	GW205A46I	0.1 U	0.13		290	4 U	8.8	217	200	200	2.2	38				
9/22/2021	XX	GW205A48D	0.3	0.05 U		230	4 U	7	189	180	180	1.3	39				
205B																	
4/27/2000	XX	205BXX36643	0.1 U	1.3		215	36	11.5	184.1	150	172.7	2.3	3.5				
8/2/2000	XX	205BXX36740	0.1 U	1.1		226	2	13.2	166.6	160	169.7	2.8	3.4				
10/25/2000	XX	205BXX36824	0.1 U	1.4		254	1 U	11.5	168.8	210	214.1	3.4	4.7				
5/9/2001	XX	205BXX37020	0.1 U	2.3		413	1	12.4	290.1	360	366	3.5	7.1				
7/25/2001	XX	205BXX37097	0.1 U	1 U		295	2	9.5	218.1	229	244	2.7	8.3				
10/17/2001	XX	205BXX37181	0.1 U	1 U		418	1 U	9.8	352	345	364	3	20.5				
5/15/2002	XX	205BXX37391	0.1 U	1 U		547	1	13.2	430.3	330	478	4.3	33.6				
8/1/2002	XX	205BXX37469	0.1 U	1 U		507	2	9.6	403.9	400	430	90.6	23.1				
10/16/2002	XX	205BXX37545	0.1 U	1 U		664	2	14.6	540.7	540	586	6.4	34.4				
6/19/2003	XX	205BXX37791	0.2 U	2 U		410	1 U	12	440	350	370	4.4	13				
8/19/2003	XX	205BXX37852	0.2	2 U		280	1 U	11	330	280	300	3	8.6				
10/9/2003	XX	205BXX37903	0.2 U	2 U		330	1 U	11	340	290	310	3.3	7.9				
4/27/2004	XX	205BXX38104	0.2 U	2 U		250	1 U	12	260	220	220	3	8.4				
8/12/2004	XX	205BXX38211	0.2 U	2 U		210	1 U	13	220	195	210	2	6.1				
10/14/2004	XX	205BXX38274	0.2 U	2 U		220	1 U	11	230	210	230	4.5	5.8				
5/17/2005	XX	GW205B00C	0.2 U	2 U		280	1 U	12	400	200	220	2.9	6				
8/4/2005	XX	GW205B024	0.46	2 U		240	1 U	11	170	155	160	1.5	2.4				
10/27/2005	XX	GW205B03G	0.2 U	2 U		300	1 U	12	500	315	340	3.2	6.2				
5/9/2006	XX	GW205B08C	0.2 U	2 U		200	4	12	330	195	210	2	2.9				
7/25/2006	XX	GW205B070	0.2 U	2 U		140	1 U	11	170	135	140	1.6	2 U				
10/19/2006	XX	GW205B058	0.2 U	2 U		130	1 U	9.8	110	105	110	1.2	2 U				
5/14/2007	XX	GW205B0A4	0.2 U	2 U		260	1 U	11	310	250	270	1 U	2 U				
8/16/2007	XX	GW205B0BH	0.2 U	0.5 U		240	1 U	10	240	200	220	5.8	2 U				
10/25/2007	XX	GW205B0D9	0.2 U	0.5 U		210	1 U	10	200	170	180	2.2	2 U				
5/27/2008	XX	GW205B0FH	0.2 U	0.5 U		240	1 U	10	230	190	210	2.9	2 U				
5/27/2008	XD	GWDP2X0F3	0.2 U	0.5 U		230	1 U	10	220		220	3.4	2 U				
8/12/2008	XX	GW205B0HH	0.2 U	0.5 U		340	1 U	10	280	300	320	2.5	2 U				
10/16/2008	XX	GW205B0J5	0.2 U	0.5 U		160	1 U	10	160	120	130	2.1	2 U				
5/4/2009	XX	GW205B115	0.2 U	0.5 U		280	0.6 U	10	310	220	230	2.6	2 U				
8/5/2009	XX	GW205B135	0.2 U	0.5 U		270	2 U	10	370	260	280	2.4	2 U				
10/20/2009	XX	GW205B14D	0.2 U	0.5 U		160	1 U	8.9	120	125	130	1.9	2 U				
10/20/2009	XD	GWDP1X15E	0.2 U	0.5 U		160	1 U	9.3	130		130	1.9	2 U				
5/26/2010	XX	GW205B16E	0.2 U	0.5 U		170	1 U	8.1	200	155	160	2.3	2 U				
8/3/2010	XX	GW205B18F	0.2 U	0.5 U		170	2.5 U	7.8	180	140	150	2.1	2 U				
8/3/2010	XD	GWDP1X180	0.2 U	0.5 U		170	1.1 U	7.9	160		150	2.1	2 U				
10/13/2010	XX	GW205B1A3	0.2 U	0.5 U		160	1.1 U	6.4	120	135	140	2	2 U				

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(205B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
5/17/2011	XX	GW205B1E2	0.2 U	0.5 U		260	4.2 U	7.9	190	240	240	2.1	2 U				
8/9/2011	XX	GW205B1FD	0.08 U	0.2 U		130	0.38 U	6.4	97	100	100	1.4	1.2 U				
11/3/2011	XX	GW205B1H4	0.082 U	0.22 J		130	0.32 U	6.8	110	130	130	1.6	1.2 U				
5/16/2012	XX	GW205B1II	0.2 U	0.5 U		140	2.5 U	6.1	120	120	120	1.09	2 U				
8/16/2012	XX	GW205B20B	0.2 U	0.331		140	2.5 U	6.3	100	110	110	1.54	0.5 U				
10/30/2012	XX	GW205B225	0.2 U	0.25 U		170	2.5 U	4.9	190	180	180	1.4	0.5 U				
5/20/2013	XX	GW205B23J	0.2 U	0.25 U		150	2.5 U	6.2	100	120	120	1.3	0.5 U				
7/23/2013	XX	GW205B25D	0.2 U	0.26		170	2.5 U	6.2	120	130	130	1.5	0.52				
10/2/2013	XX	GW205B277	0.2 U	0.25 U		130	2.5 U	5.1	110	120	120	0.98	0.5 U				
6/3/2014	XX	GW205B291	0.1 U	0.05 U		170	4 U	5.1	194	140	140	1 U	2				
8/19/2014	XX	GW205B2AF	0.1 U	0.05 U		140	4 U	4.2	128	130	130	1 U	4.3				
11/12/2014	XX	GW205B2C9	0.1 U	0.05 U		170	4 U	4	158	150	150	1 U	2.9				
6/2/2015	XX	GW205B2E5	0.1 U	0.05 U		170	4 U	4.6	120	110	110	1 U	3.2				
9/2/2015	XX	GW205B2G0	0.1 U	0.091		120	4 U	4.5	108	100	100	1 U	2.1				
11/3/2015	XX	GW205B2HE	0.1 U	0.079		160	4 U	4.7	153	150	150	1 U	2 U				
6/14/2016	XX	GW205B314	0.1 U	0.08		140	4 U	6.9	114	110	110	1 U	2 U				
9/21/2016	XX	GW205B32I	0.1 U	0.05 U		140	4 U	4.9	87.7	87	87	1 U	3				
11/9/2016	XX	GW205B34C	0.1 U	0.05 U		91	4 U	4.6	93	97	97	1.1	2.4				
6/13/2017	XX	GW205B367	0.1 U	0.05 U		210	4 U	4.5	166	160	160	1 U	2.3				
8/30/2017	XX	GW205B381	0.5	0.05 U		130	4 U	3.9	103	110	110	1 U	2 U				
11/16/2017	XX	GW205B39F	0.12	0.05 U		200	4 U	2.7	165	160	160	1 U	4.3				
6/19/2018	XX	GW205B3BA	0.1 U	0.05 U		220	4 U	5.7	135	140	140	1 U	2 U				
8/14/2018	XX	GW205B3DJ	0.1 U	0.05 U		160	4 U	3.8	117	110	110	1 U	2 U				
11/27/2018	XX	GW205B3EI	0.1 U	0.05 U		160	4 U	4.2	170	160	160	1 U	2.6				
6/4/2019	XX	GW205B3GD	0.1 U	0.05 U		220	4 U	4.3	202	190	190	1.1	2 U				
8/13/2019	XX	GW205B3J2	0.1 U	0.05 U		130	4 U	3.6	96.5	110	110	1 U	2.6				
10/23/2019	XX	GW205B401	0.1 U	0.05 U		170	4 U	3.9	148	140	140	1.2	2 U				
6/16/2020	XX	GW205B41G	0.1 U	0.05 U		150	4 U	4.3	133	140	140	1 U	2 U				
8/5/2020	XX	GW205B445	0.1 U	0.05 U		130	4 U	3.9	118	110	110	1 U	2 U				
10/20/2020	XX	GW205B454	0.1 U	0.05 U		130	4 U	3.6	97.4	99	99	1 U	2 U				
6/23/2021	XX	GW205B46J	0.1 U	0.05 U		140	4 U	3.5	125	120	120	1.6	2 U				
9/22/2021	XX	GW205B48E	0.1 U	0.05 U		150	4 U	2.8	134	140	140	1	2 U				
206A																	
4/27/2000	XX	206AXX36643	21	2		774	16	8.4	545.3	135	141.4	14.7	24.2				
8/2/2000	XX	206AXX36740	20.8	3.3		1605	9	11.1	1218.2	1350	1531.2	33.8	70.7				
10/25/2000	XX	206AXX36824	29.1	5.1		1971	24	1.8	1468	1850	1948.7	48.5	95.3				
5/8/2001	XX	206AXX37019	34.2	4		1480	4	10.4	902.9	1100	1225	27.6	56.5				
7/25/2001	XX	206AXX37097	34.2	1 U		1862	13	10.5	1419.5	1680	1715	29.4	62.7				
10/17/2001	XX	206AXX37181	49.3	1 U		2088	33	1 U	1375.2	1997	2010	37.6	101				
5/16/2002	XX	206AXX37392	28.5	1 U		1065	2	13.5	817.5	990	1010	14.4	46.3				
8/1/2002	XX	206AXX37469	38.6	1.4		1682	14	11.5	1157.3	1440	1558	334.4	71.2				
10/17/2002	XX	206AXX37546	40.3	1 U		1943	31	8.8	1436.9	1850	1912	41.7	102				
6/19/2003	XX	206AXX37791	36	2 U		920	46	15	1000	1000	1100	4.9	38				
8/18/2003	XX	206AXX37851	33	2 U		1100	35	13	1000	1150	1200	25	33				
10/13/2003	XX	206AXX37907	38	2 U		1100	43	12	960	1040	1100	30	30				
4/29/2004	XX	206AXX38106	38	2 U		1100	51	11	1100	1020	1100	30	40				
8/16/2004	XX	206AXX38215	54	2 U		1700	58	8.5	1300	1560	1600	32	50				
10/12/2004	XX	206AXX38272	48	2 U		1300	17	9.2	1300	1400	1500	53	42				
5/17/2005	XX	GW206A00D	31	2 U		1100	48	8	1000	1320	1500	19	35				

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(206A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
8/15/2005	XX	GW206A025	45	2 U		1400	80	7.7	1200	1400	1400	33	46				
10/24/2005	XX	GW206A03H	37	2 U		1100	63	7.6	1100	1140	1200	29	36				
5/11/2006	XX	GW206A08D	48	2 U		1200	61	7.2	1500	1220	1300	30	37				
7/26/2006	XX	GW206A071	45	2 U		1100	65	8.1	740	1000	1100	24	27				
10/23/2006	XX	GW206A059	29	2 U		1100	60	6.3	1000	1160	1200	31	33				
5/14/2007	XX	GW206A0A5	31	2 U		960	52	6.2	980	115	1200	17	26				
5/14/2007	XD	GWDP2X0EB	32	2 U		880	45	6.1	930		1300	17	26				
8/16/2007	XX	GW206A0B1	34	0.5 U		1400	70	3.6	470	1440	1500	65	40				
10/29/2007	XX	GW206A0DA	30	0.5 U		1400	80	6.4	1500	1400	1500	48	44				
5/27/2008	XX	GW206A0F1	28	0.5 U		1000	58	5.5	1000	1030	1100	36	26				
5/27/2008	XD	GWDP1X0F2	28	0.5 U		1000	61	5.3	930		1200	35	26				
8/13/2008	XX	GW206A0H1	20	0.5 U		980	54	5.8	790	1000	1100	26	25				
10/20/2008	XX	GW206A0J6	19	0.5 U		1200	61	5.5	950	1300	1400	37	34				
5/5/2009	XX	GW206A116	32	0.5 U		970	26	5	910	950	1100	32	21				
8/6/2009	XX	GW206A136	26	0.5 U		880	44	13	1200	900	980	28	19				
8/6/2009	XD	GWDP2X12B	28	0.5 U		880	49	13	1300		970	24	19				
10/21/2009	XX	GW206A14E	34	0.5 U		1000	66	4.3	910	1120	1200	47	32				
5/27/2010	XX	GW206A16F	28	0.5 U		980	70	5.5	710	1000	1100	19	24				
8/3/2010	XX	GW206A18G	35	0.5 U		1100	55	3.9	1000	1200	1300	36	31				
10/13/2010	XX	GW206A1A4	25	0.5 U		770	47	6.6	620	880	930	31	22				
10/13/2010	XD	GWDP1X1B4	25	0.5 U		820	50	6.8	670		920	28	22				
5/17/2011	XX	GW206A1E3	23	0.5 U		760	42	5	630	810	810	24	19				
8/9/2011	XX	GW206A1FE	29	0.2 U		1300	91	4	1000	1400	1400	47	43				
11/3/2011	XX	GW206A1H5	27	0.2 U		1000	59	4.9	790	1100	1100	36	25				
5/16/2012	XX	GW206A1J	26	0.5 U		720	45	4.5	670	830	830	17.1	15				
8/15/2012	XX	GW206A20C	25	0.25 U		1200	77	3.7	940	1200	1200	28.3	26				
10/30/2012	XX	GW206A226	29	0.25 U		630	20	3.9	810	700	700	21	15				
5/20/2013	XX	GW206A240	29	0.25 U		990	65	3.7	740	1100	1100	20	19				
7/23/2013	XX	GW206A25E	24	0.25 U		950	29	2.7	590	1000	1000	14	19				
10/2/2013	XX	GW206A278	29	0.25 U		1000	77	2.8	860	1200	1200	23	23				
6/3/2014	XX	GW206A292	22	0.05 U		1000	61	1 U	465	1100	1100	8.2	22				
8/20/2014	XX	GW206A2AG	37	0.05 U		1200	91	1 U	1040	1400	1400	26	33				
11/11/2014	XX	GW206A2CA	3.1	0.05 U		440	11	1 U	107	450	450	1.2	19				
6/2/2015	XX	GW206A2E6	29	0.05 U		900	52	1.4	748	920	920	18	24				
9/2/2015	XX	GW206A2G1	36	0.05 U		1100	82	1 U	1090	1200	1200	30	30				
11/3/2015	XX	GW206A2HF	15	0.05 U		820	45	1 U	307	870	870	10	21				
6/15/2016	XX	GW206A315	28	0.1 U		1000	71	7.4	794	980	980	15	22				
9/21/2016	XX	GW206A32J	40	0.05 U		1300	75	2.2	1100	1300	1300	27	34				
11/9/2016	XX	GW206A34D	42	0.05 U		1400	94	1.4	1240	1400	1400	32	39				
6/13/2017	XX	GW206A368	28	0.05 U		1000	44	1 U	778	970	970	18	21				
8/30/2017	XX	GW206A382	39	0.05 U		1400	64	1 U	1080	1400	1400	30	34				
11/15/2017	XX	GW206A39G	41	0.5 U		1200	60	1.1	1220	1400	1400	29	30				
6/19/2018	XX	GW206A3BB	32	0.05 U		1000	76	3.4	863	1100	1100	21	23				
8/14/2018	XX	GW206A3E0	41	0.25 U		1300	48	1	1030	1400	1400	26	32				
11/27/2018	XX	GW206A3EJ	36	0.05 U		840	45	9.8	776	36	36	22	27				
6/4/2019	XX	GW206A3GE	23	0.2		730	24	2.3	614	810	810	17	16				
8/13/2019	XX	GW206A3J3	39	0.05 U		1200	90	1 U	1020	1200	1200	27	27				
10/23/2019	XX	GW206A402	47	0.05 U		1200	96	1 U	1320	1600	1600	34	30				
6/16/2020	XX	GW206A41H	32	0.05 U		1000	44	1 U	755	1300	1300	20	20				
8/5/2020	XX	GW206A446	36	0.05 U		1100	75	2.4	936	1300	1300	24	27				

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(206A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10/20/2020	XX	GW206A455	46	0.05 U		1400	45	1 U	1300	1600	1600	34	32
6/23/2021	XX	GW206A470	35	0.05 U		1000	72	1 U	960	1100	1100	25	25
9/22/2021	XX	GW206A48F	41	0.05 U		1400	53	1 U	1210	1400	1400	31	32

206B													
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4/27/2000	XX	206BXX36643	0.1 U	1 U		48	22	12.5	23.3	10.5	11.1	3.7	2.5
8/2/2000	XX	206BXX36740	D	D			D	D	D	D	D	D	D
10/25/2000	XX	206BXX36824	D	D			D	D	D	D	D	D	D
5/8/2001	XX	206BXX37019	0.1 U	1.4		55	1	13.8	22.1	8	8	2.5	2.4
7/25/2001	XX	206BXX37097	D	D			D	D	D	D	D	D	D
10/17/2001	XX	206BXX37181	D	D			D	D	D	D	D	D	D
5/16/2002	XX	206BXX37392	0.1 U	1.2		88	2	17.4	47.8	44	48	2.5	2.2
7/29/2002	XX	206BXX37466	D	D		D	D	D	D	D	D	D	D
10/15/2002	XX	206BXX37544	D	D		D	D	D	D	D	D	D	D
6/17/2003	XX	206BXX37789	0.2 U	2 U		100	1 U	23	89	68	73	1.8	3.8
8/18/2003	XX	206BXX37851	0.21	2 U		56	1	19	68	54	57	2.6	2.3
10/13/2003	XX	206BXX37907	0.2 U	2 U		31	1 U	12	46	34	35	3.1	2 U
4/29/2004	XX	206BXX38106	0.21	2 U		110	1 U	19	88	64	64	1.5	3.1
8/16/2004	XX	206BXX38215	D	D		D	D	D	D	D	D	D	D
10/12/2004	XX	206BXX38272	D	D		D	D	D	D	D	D	D	D
5/17/2005	XX	GW206B00E	0.45	2 U		92	1 U	14	69	57	58	2	2.7
8/15/2005	XX	GW206B026	D	D		D	D	D	D	D	D	D	D
10/24/2005	XX	GW206B031	0.2 U	2 U		28	1 U	7.3	32	32	33	5.1	2 U
5/11/2006	XX	GW206B08E	0.2 U	2 U		69	1 U	13	68	51	53	1.9	2 U
7/26/2006	XX	GW206B072	0.2	2 U		72	3.2	13	79	64	68	1.6	2.6
10/23/2006	XX	GW206B05A	0.2 U	2 U		50	1 U	6.6	37	39	39	3.1	2 U
5/14/2007	XX	GW206B0A6	0.2 U	2 U		86	1 U	11	82	81	83	1 U	2 U
8/16/2007	XX	GW206B0BJ	D	D		D	D	D	D	D	D	D	D
10/29/2007	XX	GW206B0DB	D	D		D	D	D	D	D	D	D	D
5/27/2008	XX	GW206B0FJ	D	D		D	D	D	D	D	D	D	D
8/13/2008	XX	GW206B0HJ	0.2 U	0.71		100	1 U	9.9	78	80	82	1.4	2 U
10/20/2008	XX	GW206B0J7	D	D		D	D	D	D	D	D	D	D
5/5/2009	XX	GW206B117	0.2 U	0.85		110	0.6 U	8.9	77	78	79	2.5	2
8/6/2009	XX	GW206B137	0.2 U	0.79		90	2 U	15	66	56	58	2	2
10/21/2009	XX	GW206B14F	0.2 U	0.53		200	1 U	9.5	85	81	85	2.6	2 U
5/27/2010	XX	GW206B16G	D	D		D	D	D	D	D	D	D	D
8/3/2010	XX	GW206B18H	D	D		D	D	D	D	D	D	D	D
10/13/2010	XX	GW206B1A5	0.2 U	0.51		68	1.7	4.5	36	42	42	2.5	2 U
5/17/2011	XX	GW206B1E4	0.2 U	0.5 U		35	4.2 U	2.8	28	28	28	3.4	2 U
8/9/2011	XX	GW206B1FF	D	D		D	D	D	D	D	D	D	D
11/4/2011	XX	GW206B1H6	0.082 U	0.46 J		95	0.32 U	10	67	76	76	2.3	1.2 U
5/16/2012	XX	GW206B1J0	0.2 U	0.5 U		41	2.5 U	4.4	43	37	37	2.41	2 U
8/15/2012	XX	GW206B20D	I	I		I	I	I	I	I	I	I	I
10/30/2012	XX	GW206B227	0.2 U	0.35		66	2.5 U	6	55	54	54	2.6	0.96
5/20/2013	XX	GW206B241	0.2 U	0.37		82	2.5 U	7.2	35	57	57	1.3	0.85
7/24/2013	XX	GW206B25F	0.2 U	0.54		84	3.4	6.6	62	66	66	1.5	1.2
10/2/2013	XX	GW206B279	0.2 U	0.3		77	2.5 U	6.5	58	58	58	1.2	0.63
6/3/2014	XX	GW206B293	0.1 U	0.82		99	4 U	8.4	75.8	72	72	1.2	3.8
8/20/2014	XX	GW206B2AH	D	D		D	D	D	D	D	D	D	D
11/11/2014	XX	GW206B2CB	0.1 U	0.36		44	4 U	1 U	25.6	30	30	2.8	3.8

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(206B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
6/2/2015	XX	GW206B2E7	0.1 U	0.25		70	4.4	5.1	35.7	38	38	1.5	3.5				
9/2/2015	XX	GW206B2G2	I	I		I	I	I	I	I	I	I	I				
11/3/2015	XX	GW206B2HG	0.1 U	0.35		59	4 U	2.2	33.2	36	36	2.5	2 U				
6/15/2016	XX	GW206B316	0.1 U	0.29		78	12	7.4	58.4	56	56	1 U	2.4				
9/21/2016	XX	GW206B330	D	D		D	D	D	D	D	D	D	D				
11/9/2016	XX	GW206B34E	D	D		D	D	D	D	D	D	D	D				
6/13/2017	XX	GW206B369	0.37	0.28		100	4 U	3.4	52.1	36	36	1.4	2.3				
8/30/2017	XX	GW206B383	I	I		I	I	I	I	I	I	I	I				
11/15/2017	XX	GW206B39H	0.1 U	0.62		88	4 U	8.7	75.3	66	66	1	3				
6/19/2018	XX	GW206B3BC	0.1 U	0.55		110	4 U	9.7	69	70	70	1 U	2.2				
8/14/2018	XX	GW206B3E1	I	I		I	I	I	I	I	I	I	I				
11/27/2018	XX	GW206B3F0	0.1 U	0.47		39	4 U	13	34.6	36	36	2.1	2.3				
6/4/2019	XX	GW206B3GF	0.1 U	0.17		81	4 U	4.1	53	39	39	1.5	2 U				
8/13/2019	XX	GW206B3J4	0.1 U	0.45		98	19	7.8	64	64	64	1.2	3				
10/23/2019	XX	GW206B403	D	D		D	D	D	D	D	D	D	D				
6/16/2020	XX	GW206B411	0.1 U	0.61		95	11	6.9	74.6	77	77	1.1	2 U				
8/5/2020	XX	GW206B447	I	I		I	I	I	I	I	I	I	I				
10/22/2020	XX	GW206B456	D	D		D	D	D	D	D	D	D	D				
6/23/2021	XX	GW206B471	0.1 U	0.66		140	7.6	8	79.6	76	76	2	2 U				
9/22/2021	XX	GW206B48G	D	D		D	D	D	D	D	D	D	D				
301																	
5/3/2000	XX	301XX36649	0.1 U	1 U		212	41	9.3	166.3	110	125.2	1.8	28.7				
8/9/2000	XX	301XX36747	0.1 U	1 U		219	3	12	126.8	110	129.3	1.8	31.6				
11/8/2000	XX	301XX36838	0.1 U	1 U		242	1 U	12.9	125.8	142	143.4	1.7	31.9				
5/16/2001	XX	301XX37027	0.1 U	1 U		247	1 U	12.8	161.4	146	148	1.6	35.5				
7/31/2001	XX	301XX37103	0.1 U	1 U		245	1	12.7	159.7	150	152	3.8	35.6				
10/23/2001	XX	301XX37187	0.1 U	1 U		281	2	14.7	191	160	174	2.5	40				
5/21/2002	XX	301XX37397	0.1 U	1 U		293	2	16.3	141.9	175	178	2.2	43.1				
8/2/2002	XX	301XX37470	0.1 U	1 U		337	1	16.6	147.4	188	200	2.9	42.6				
10/23/2002	XX	301XX37552	0.1 U	1 U		304	1	23.1	205.8	190	208	2.4	43.3				
6/24/2003	XX	301XX37796	0.2 U	2 U		300	1 U	19	320	210	230	2.2	37				
8/12/2003	XX	301XX37845	0.2 U	2 U		340	1 U	23	320	200	230	2.6	33				
10/16/2003	XX	301XX37910	0.2 U	2 U		340	1 U	24	320	230	250	2.9	33				
5/5/2004	XX	301XX38112	0.2 U	2 U		370	1 U	23	350	250	270	2.5	31				
8/9/2004	XX	301XX38208	0.2 U	2 U		390	1 U	24	320	265	280	2.5	35				
10/20/2004	XX	301XX38280	0.2 U	2 U		420	1 U	23	330	260	280	3.4	35				
5/11/2005	XX	GW301X00F	0.2 U	2 U		410	1 U	27	360	270	290	4.1	42				
7/27/2005	XX	GW301X027	0.2 U	2 U		440	1 U	24	410	280	300	2.8	38				
11/7/2005	XX	GW301X03J	0.2 U	2 U		480	3	24	430	320	350	3.5	40				
5/1/2006	XX	GW301X08F	0.2 U	2 U		450	3.5	24	450	330	350	3.9	40				
7/31/2006	XX	GW301X073	0.2 U	2 U		480	1 U	26	500	330	360	5.1	41				
10/26/2006	XX	GW301X05B	0.2 U	2 U		498	1 U	28	390	370	380	3.8	36				
5/9/2007	XX	GW301X0A7	0.5 U	0.5 U		500	3.2	27	500	420	442	1.1	38				
8/9/2007	XX	GW301X0C0	0.2 U	0.5 U		620	1 U	26	560	400	440	24	42				
10/30/2007	XX	GW301X0DC	0.2 U	0.5 U		700	1 U	30	670	490	530	8.2	50				
10/30/2007	XD	GWDP3X0F0	0.2 U	0.5 U		680	1 U	30	670		530	7.8	50				
6/3/2008	XX	GW301X0G0	0.2 U	0.5 U		660	1 U	26	670	520	580	15	49				
8/14/2008	XX	GW301X0I0	0.2 U	0.5 U		700	1 U	25	560	540	570	9	49				
8/14/2008	XD	GWDP3X0H4	0.2 U	0.5 U		670	1 U	25	620		570	9.3	49				

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(301)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/21/2008	XX	GW301X0J8	0.2 U	0.5 U		760	1 U	26	790	550	590	10	58				
5/11/2009	XX	GW301X118	0.2 U	0.5 U		700	0.6 U	27	760	550	590	12	61				
8/10/2009	XX	GW301X138	0.2 U	0.5 U		770	0.6 U	27	910	550	590	10	62				
10/22/2009	XX	GW301X14G	0.2 U	0.5 U		750	1 U	29	690	570	600	15	71				
10/22/2009	XD	GWDP3X15G	0.2 U	0.5 U		780	1 U	28	810		600	14	73				
6/1/2010	XX	GW301X16H	0.2 U	0.5 U		780	1 U	27	710	580	610	13	77				
8/5/2010	XX	GW301X18I	0.2 U	0.5 U		800	1.1 U	25	760	590	630	11	77				
10/18/2010	XX	GW301X1A6	0.2 U	0.5 U		850	1.2 U	24	620	600	630	14	94				
5/18/2011	XX	GW301X1D9	0.2 U	0.5 U		820	4.2 U	27	710	640	640	13	90				
8/9/2011	XX	GW301X1F0	0.08 U	0.2 U		890	0.38 U	25	730	670	670	14	100				
11/2/2011	XX	GW301X1GB	0.082 U	0.2 U		810	0.55 J	27	660	640	640	13	87				
5/15/2012	XX	GW301X1I5	0.2 U	0.09 U		750	2.5 U	31	680	570	570	8	77				
8/14/2012	XX	GW301X1JI	0.2 U	0.25 U		810	3.5	26	620	610	610	8.99	89				
10/30/2012	XX	GW301X21C	0.2 U	0.25 U		900	2.5 U	25	790	680	680	8.9	99				
5/22/2013	XX	GW301X236	0.2 U	0.25 U		960	2.5 U	26	740	710	710	8.9	100				
7/25/2013	XX	GW301X250	0.2 U	0.25 U		1000	2.5 U	24	810	730	730	10	110				
10/1/2013	XX	GW301X26E	0.2 U	0.25 U		960	2.5 U	26	740	700	700	9.5	100				
6/4/2014	XX	GW301X288	0.1 U	0.05 U		1000	4 U	28	921	770	780	9.4	100				
8/20/2014	XX	GW301X2A2	0.1 U	0.05 U		1100	4 U	28	1010	890	900	11	100				
11/11/2014	XX	GW301X2BG	0.1 U	0.05 U		1100	4 U	28	854	830	830	12	110				
6/3/2015	XX	GW301X2DC	0.1 U	0.05 U		1100	4 U	24	876	840	840	11	110				
9/1/2015	XX	GW301X2F7	0.1 U	0.05 U		1200	4 U	23	1030	820	820	13	100				
11/4/2015	XX	GW301X2H1	0.1 U	0.05 U		1100	4 U	22	930	850	850	11	110				
6/15/2016	XX	GW301X30B	0.1 U	0.05 U		1100	4 U	25	954	850	850	11	110				
9/20/2016	XX	GW301X325	0.1 U	0.05 U		1300	4 U	26	971	910	910	13	110				
11/10/2016	XX	GW301X33J	0.1 U	0.05 U		1200	4 U	24	1000	1100	1100	15	95				
6/14/2017	XX	GW301X35E	0.1 U	0.05 U		1200	4 U	26	1080	960	960	14	97				
8/29/2017	XX	GW301X378	0.1 U	0.05 U		1200	4 U	24	1020	980	980	14	96				
11/14/2017	XX	GW301X392	0.1 U	0.1		1200	4 U	29	948	970	970	16	87				
6/19/2018	XX	GW301X3AH	0.1 U	0.05 U		1200	4 U	49	972	1000	1000	15	83				
8/14/2018	XX	GW301X3D6	0.1 U	0.05 U		1200	4 U	45	1010	1000	1000	16	91				
11/28/2018	XX	GW301X3E5	0.1 U	0.05 U		1200	12	47	1050	1100	1100	17	82				
6/5/2019	XX	GW301X3G0	0.1 U	0.05 U		1300	4 U	44	1040	1000	1000	17	77				
8/13/2019	XX	GW301X3I9	0.1 U	0.05 U		1200	4 U	42	999	1000	1000	17	78				
10/23/2019	XX	GW301X3J8	0.1 U	0.05 U		1200	4 U	38	1020	1000	1000	17	69				
6/16/2020	XX	GW301X413	0.1 U	0.05 U		1200	4 U	34	984	1100	1100	15	61				
8/4/2020	XX	GW301X43C	0.1 U	0.05 U		1000	4 U	34		970	980	16	56				
8/4/2020	XX	GW301X43CR							997								
10/21/2020	XX	GW301X44B	0.1 U	0.05 U		1000	4 U	32	1080	1000	1000	16	59				
6/22/2021	XX	GW301X466	0.1 U	0.05 U		1100	4 U	27	977	1000	1000	15	53				
9/22/2021	XX	GW301X481	0.1 U	0.05 U		1000	4 U	30	946	1000	1000	16	58				
302B																	
5/3/2000	XX	302BXX36649	0.1 U	1 U		224	9	11.1	143.9	81	88.9	3.5	50.9				
8/9/2000	XX	302BXX36747	0.1 U	1 U		307	1	12.1	175.8	165	181.8	3.1	39.3				
11/8/2000	XX	302BXX36838	0.1 U	1 U		303	1 U	12	153	144	147.5	4.3	52.1				
5/16/2001	XX	302BXX37027	0.1 U	1 U		368	1	14.5	223.2	210	230	4.1	47.5				
7/31/2001	XX	302BXX37103	0.1 U	1 U		300	1	12.8	189.7	158	158	7.4	46.5				
10/23/2001	XX	302BXX37187	0.1 U	1 U		314	2	14.8	177.4	158	162	4.3	53.4				
5/21/2002	XX	302BXX37397	0.1 U	1 U		394	1 U	19	259.6	200	230	6.3	69.2				

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(302B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
8/7/2002	XX	302BXX37475	0.1 U	1 U		438	4	17.7	288.1	265	290	14.7	49.9				
10/23/2002	XX	302BXX37552	0.1 U	1 U		362	1 U	20	245.4	230	244	6.7	57.7				
6/23/2003	XX	302BXX37795	0.2 U	2 U		530	1 U	39	460	325	350	13	50				
8/12/2003	XX	302BXX37845	0.2 U	2 U		460	1 U	27	370	330	360	9.6	39				
10/20/2003	XX	302BXX37914	0.27	2 U		500	1 U	45	460	330	350	13	41				
5/4/2004	XX	302BXX38111	0.2 U	2 U		540	1 U	63	540	370	390	24	41				
8/5/2004	XX	302BXX38204	0.2 U	2 U		520	1 U	37	460	340	360	10	38				
10/20/2004	XX	302BXX38280	0.2 U	2 U		520	1 U	36	490	325	350	16	40				
5/11/2005	XX	GW302B00G	0.2 U	2 U		600	1 U	78	490	330	350	12	52				
7/27/2005	XX	GW302B028	0.2 U	2 U		690	1 U	59	570	390	390	12	43				
11/7/2005	XX	GW302B040	0.2 U	2 U		600	3	63	520	390	410	13	50				
5/1/2006	XX	GW302B08G	0.2 U	2 U		620	1 U	63	640	415	460	22	51				
7/31/2006	XX	GW302B074	0.2 U	2 U		660	1 U	61	630	450	480	17	49				
10/25/2006	XX	GW302B05C	0.25	2 U		640	1 U	53	620	480	500	13	45				
5/9/2007	XX	GW302B0A8	0.5 U	0.5 U		610	1 U	50	530	440	470	8.2	42				
8/9/2007	XX	GW302B0C1	0.2 U	0.5 U		670	1 U	46	550	385	400	34	42				
10/30/2007	XX	GW302B0DD	0.2 U	0.5 U		670	1 U	41	630	450	490	16	48				
6/2/2008	XX	GW302B0G1	0.2 U	0.5 U		640	1 U	38	530	480	520	32	44				
8/14/2008	XX	GW302B0I1	0.2 U	0.5 U		680	1 U	37	570	530	560	23	47				
10/21/2008	XX	GW302B0J9	0.2 U	0.5 U		680	1 U	40	640	470	490	21	47				
10/21/2008	XD	GWDP3X108	0.2 U	0.5 U		680	1 U	40	660		500	22	46				
5/11/2009	XX	GW302B119	0.2 U	0.5 U		700	0.6 U	35	720	540	560	28	44				
8/10/2009	XX	GW302B139	0.2 U	0.5 U		720	0.6 U	35	670	520	560	24	46				
8/10/2009	XD	GWDP3X12C	0.2 U	0.5 U		730	0.6 U	35	680		560	22	45				
10/22/2009	XX	GW302B14H	0.2 U	0.5 U		650	1 U	39	520	490	520	22	50				
6/1/2010	XX	GW302B16I	0.2 U	0.5 U		700	1.1 U	36	610	510	550	24	49				
8/4/2010	XX	GW302B18J	0.2 U	0.5 UH		680	1 U	41	570	520	550	22	52				
10/14/2010	XX	GW302B1A7	0.2 U	0.5 U		750	1.1 U	37	490	530	570	22	56				
5/18/2011	XX	GW302B1DA	0.2 U	0.5 U		640	5 U	26	510	540	540	22	60				
8/8/2011	XX	GW302B1F1	0.08 U	0.2 U		770	0.39 U	30	300	600	600	22	69				
11/1/2011	XX	GW302B1GC	0.082 U	0.2 U		830	0.32 U	24	650	670	670	28	63				
5/15/2012	XX	GW302B1I6	0.2 U	0.09 U		760	2.5 U	17	640	650	650	19	57				
8/16/2012	XX	GW302B1JJ	0.2 U	0.25 U		820	2.5 U	25	540	630	630	19.6	62				
10/30/2012	XX	GW302B21D	0.2 U	0.25 U		790	2.5 U	20	690	670	670	20	63				
5/21/2013	XX	GW302B237	0.2 U	0.25 U		870	2.5 U	16	410	720	720	21	70				
7/25/2013	XX	GW302B251	0.2 U	0.25 U		940	2.5 U	17	670	730	730	22	70				
10/1/2013	XX	GW302B26F	0.2 U	0.25 U		910	2.5 U	19	660	700	700	21	75				
6/3/2014	XX	GW302B289	0.1 U	0.23		840	4 U	19	654	670	680	18	64				
8/20/2014	XX	GW302B2A3	0.11	0.14		850	4 U	22	716	700	700	16	70				
11/11/2014	XX	GW302B2BH	0.1 U	0.14		860	4 U	18	642	660	660	18	72				
6/3/2015	XX	GW302B2DD	0.11	0.05 U		960	4 U	11	712	720	720	21	78				
9/1/2015	XX	GW302B2F8	0.15	0.46		900	4 U	18	768	650	650	22	75				
11/4/2015	XX	GW302B2H2	0.13	0.05 U		960	4 U	1 U	745	770	770	21	80				
6/15/2016	XX	GW302B30C	0.67	0.05 U		990	4 U	7.9	764	740	740	20	82				
9/21/2016	XX	GW302B326	0.31	0.05 U		930	4 U	13	678	720	720	19	75				
11/8/2016	XX	GW302B340	0.16	0.1		850	4 U	18	706	770	770	20	73				
6/13/2017	XX	GW302B35F	0.46	0.05 U		1000	4 U	14	763	760	760	21	74				
8/29/2017	XX	GW302B379	0.34	0.05 U		950	4 U	14	719	740	740	20	75				
11/14/2017	XX	GW302B393	0.4	0.05 U		960	4 U	8.6	738	780	780	22	72				
6/19/2018	XX	GW302B3AI	0.69	0.11		940	4 U	11	758	810	810	19	68				

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(302B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
8/14/2018	XX	GW302B3D7	0.79	0.05 U		990	4 U	12	733	840	840	21	79				
11/28/2018	XX	GW302B3E6	0.58	0.05 U		950	4 U	10	754	840	840	23	70				
6/5/2019	XX	GW302B3G1	0.81	0.068		1000	4.4	1 U	837	880	880	25	69				
8/13/2019	XX	GW302B3IA	1.1	0.05 U		1100	4 U	1 U	863	900	900	28	76				
10/23/2019	XX	GW302B3J9	0.86	0.05 U		1000	4 U	13	861	820	820	24	72				
6/17/2020	XX	GW302B414	0.85	0.05 U		990	4 U	1 U	808	940	940	25	65				
8/5/2020	XX	GW302B43D	0.91	0.05 U		930	6	13	2160	820	820	24	65				
10/21/2020	XX	GW302B44C	0.7	0.05 U		1000	4 U	1 U	471	880	880	26	68				
6/22/2021	XX	GW302B467	0.96	0.05 U		1100	4 U	1 U	891	940	940	28	67				
9/22/2021	XX	GW302B482	1.1	0.05 U		1100	4 U	1 U	908	980	980	28	73				
302C																	
5/3/2000	XX	302CXX36649	0.1 U	1 U		189	23	9.6	105.5	39	47.3	2.6	55				
8/9/2000	XX	302CXX36747	0.1 U	1 U		293	1	15.5	117	120	132.3	4.3	59.8				
11/8/2000	XX	302CXX36838	0.1 U	1 U		281	1 U	12.2	144.9	135	135.3	4.7	55.4				
5/16/2001	XX	302CXX37027	0.1 U	1 U		294	1	14.1	144	155	160	6.5	55.2				
7/31/2001	XX	302CXX37103	0.1 U	1 U		308	2	12.1	138	154	156	8.1	44.4				
10/23/2001	XX	302CXX37187	0.1 U	1 U		327	2	14.5	210.8	165	174	5.7	58.3				
5/21/2002	XX	302CXX37397	0.1 U	1 U		270	1 U	19.4	176.5	110	118	5.1	60.4				
8/7/2002	XX	302CXX37475	0.1 U	1 U		465	1 U	21.5	283	240	264	11.8	74.3				
10/23/2002	XX	302CXX37552	0.1 U	1 U		453	1 U	29.6	299.5	270	296	11.9	71.1				
6/23/2003	XX	302CXX37795	0.2 U	2 U		410	1 U	46	370	240	260	13	51				
8/12/2003	XX	302CXX37845	0.2 U	2 U		540	1 U	48	520	370	390	19	44				
10/20/2003	XX	302CXX37914	0.2 U	2 U		400	1 U	50	340	220	240	12	41				
5/4/2004	XX	302CXX38111	0.2 U	2 U		410	1 U	69	420	250	270	14	40				
8/5/2004	XX	302CXX38204	0.27	2 U		510	1 U	56	690	315	340	12	34				
10/20/2004	XX	302CXX38280	0.2 U	2 U		490	1 U	55	420	280	310	14	140				
5/11/2005	XX	GW302C00H	0.2 U	2 U		470	1 U	79	390	230	250	12	55				
7/27/2005	XX	GW302C029	0.2 U	2 U		630	1 U	78	570	380	400	12	53				
11/7/2005	XX	GW302C041	0.2 U	2 U		580	3	74	490	350	370	16	56				
5/1/2006	XX	GW302C08H	0.2 U	2 U		580	1.5	66	540	370	390	18	55				
7/31/2006	XX	GW302C075	0.2 U	2 U		640	1 U	57	610	460	490	16	48				
10/25/2006	XX	GW302C05D	0.2 U	2 U		560	1 U	55	380	340	360	14	39				
5/9/2007	XX	GW302C0A9	0.5 U	0.5 U		550	1 U	51	450	425	450	9.4	42				
8/9/2007	XX	GW302C0C2	0.26	0.5 U		640	2	41	490	390	410	48	40				
8/9/2007	XD	GWDP3X0EG	0.24	0.5 U		620	1.6	41	490		410	48	40				
10/30/2007	XX	GW302C0DE	0.2 U	0.5 U		600	1 U	43	530	400	420	18	44				
6/2/2008	XX	GW302C0G2	0.2 U	0.5 U		670	1 U	35	600	520	580	32	46				
6/2/2008	XD	GWDP3X0F4	0.2 U	0.5 U		670	1 U	36	570		560	31	46				
8/14/2008	XX	GW302C0I2	0.2 U	0.5 U		610	1 U	34	470	470	500	24	43				
10/21/2008	XX	GW302C0JA	0.2 U	0.5 U		620	1.2	32	590	470	490	22	38				
5/11/2009	XX	GW302C11A	0.2 U	0.5 U		640	0.6 U	32	540	525	530	18	40				
8/10/2009	XX	GW302C13A	0.2 U	0.5 U		670	0.6 U	33	480	490	540	26	45				
10/22/2009	XX	GW302C14I	0.2 U	0.5 U		580	1 U	31	460	440	460	22	35				
6/1/2010	XX	GWXXX17F	0.2 U	0.5 U		700	1 U	26	650	510	550	25	44				
6/1/2010	XD	GWDP3X161	0.2 U	0.5 U		680	1 U	26	680		550	24	44				
8/4/2010	XX	GW302C190	0.2 U	0.5 UH		600	1.1 U	23	490	480	510	20	42				
10/14/2010	XX	GW302C1A8	0.2 U	0.5 U		630	1.3 U	23	450	505	530	23	48				
5/18/2011	XX	GW302C1DB	0.2 U	0.5 U		320	5 U	18	280	290	290	12	26				
5/18/2011	XD	GWXXX1EH	0.2 U	0.5 U		320	5 U	18	270	290	290	12	25				

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(302C)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
8/8/2011	XX	GW302C1F2	0.08 U	0.2 U		800	1.3 J	19	530	650	650	28	71			
11/1/2011	XX	GW302C1GD	0.082 U	0.2 U		750	0.32 U	17	560	650	650	28	57			
11/1/2011	XD	GWDP1X1HI	0.082 U	0.2 U		780	0.32 U	17	590	670	670	30	57			
5/15/2012	XX	GW302C1I7	0.2 U	0.09 U		470	2.5 U	12	380	430	430	14	34			
5/15/2012	XD	GWDP2X1JD	0.2 U	0.09 U		480	2.5 U	14	370	430	430	14	33			
8/16/2012	XX	GW302C200	0.2 U	0.25 U		800	2.5 U	13	580	640	640	24	64			
8/16/2012	XD	GWDP2X216	0.2 U	0.25 U		810	2.5 U	13	620	650	650	24	62			
10/30/2012	XX	GW302C21E	0.2 U	0.25 U		760	2.6 U	12	650	670	670	20	60			
10/30/2012	XD	GWDP3X231	0.2 U	0.25 U		770	2.5 U	12	590	650	650	20	59			
5/21/2013	XX	GW302C238	0.2 U	0.25 U		860	2.5 U	12	650	750	750	21	70			
7/25/2013	XX	GW302C252	0.2 U	0.25 U		940	2.5 U	12	650	740	740	22	69			
7/25/2013	XD	GWDP1X267	0.2 U	0.25 U		960	2.5 U	12	640	770	770	23	71			
10/1/2013	XX	GW302C26G	0.2 U	0.25 U		800	2.5 U	10	620	680	680	21	58			
10/1/2013	XD	GWDP1X281	0.2 U	0.25 U		800	2.5 U	10	610	660	660	21	58			
6/3/2014	XX	GW302C28A	0.18	0.05 U		860	4 U	9	636	700	700	19	62			
8/20/2014	XX	GW302C2A4	0.12	0.05 U		740	4 U	22	575	620	620	17	52			
8/20/2014	XD	GWDP3X2BB	0.12	0.05 U		730	4 U	15	551	630	630	17	53			
11/11/2014	XX	GW302C2BI	0.68	0.05 U		760	4 U	6.2	595	670	670	19	64			
11/11/2014	XD	GWDP1X2D3	0.66	0.05 U		800	4 U	5.5	589	650	660	19	63			
6/3/2015	XX	GW302C2DE	0.98	0.05 U		930	4 U	1.5	631	730	730	20	71			
9/1/2015	XX	GW302C2F9	0.3	0.05 U		820	4 U	5.4	617	650	650	19	56			
9/1/2015	XD	GWDP3X2GG	0.3	0.05 U		830	4 U	4.8	577	660	660	19	57			
11/4/2015	XX	GW302C2H3	1.4	0.05 U		860	4 U	1 U	667	710	710	21	66			
11/4/2015	XD	GWDP1X2I8	1.4	0.05 U		870	4 U	1 U	688	700	700	21	63			
6/15/2016	XX	GW302C30D	0.32	0.05 U		970	4 U	0.32	731	770	770	20	74			
9/21/2016	XD	GWDP3X33E	0.32	0.05 U		810	4 U	1 U	582	640	640	19	55			
9/21/2016	XX	GW302C327	0.32	0.05 U		800	4 U	1 U	563	640	640	19	53			
11/8/2016	XD	GWDP1X356	0.82	0.05 U		790	4 U	1.7	636	740	740	22	63			
11/8/2016	XX	GW302C341	0.83	0.05 U		820	4 U	1.3	674	740	740	22	64			
6/13/2017	XX	GW302C35G	1.2	0.05 U		1000	4 U	1 U	728	810	810	24	67			
8/29/2017	XD	GWDP3X38H	0.75	0.05 U		830	4 U	1 U	623	710	710	20	54			
8/29/2017	XX	GW302C37A	0.7	0.05 U		840	4 U	1 U	626	710	710	19	52			
11/14/2017	XD	GWDP1X3A9	2.4	0.05 U		880	4 U	1 U	566	730	730	22	55			
11/14/2017	XX	GW302C394	2.3	0.05 U		880	4 U	1 U	590	720	720	22	55			
6/19/2018	XX	GW302C3AJ	1.5	0.05 U		1000	4 U	1 U	744	880	880	24	62			
8/14/2018	XD	GWDP3X3D1	1.6	0.05 U		880	4 U	1 U	654	780	780	21	59			
8/14/2018	XX	GW302C3D8	1.5	0.05 U		910	4 U	1 U	658	790	790	22	57			
11/28/2018	XD	GWDP1X3FC	3.6	0.05 U		1000	4 U	1 U	772	890	890	27	61			
11/28/2018	XX	GW302C3E7	3.6	0.05 U		1000	4 U	1 U	756	880	880	26	62			
6/5/2019	XX	GW302C3G2	4	0.05 U		1100	4 U	1 U	767	870	880	28	60			
8/13/2019	XD	GWDP3X3I4	0.65	0.05 U		980	4 U	1 U	700	900	900	27	61			
8/13/2019	XX	GW302C3IB	0.72	0.05 U		990	4 U	1 U	736	890	890	27	60			
10/23/2019	XD	GWDP1X40F	1.9	0.05 U		860	6	1 U	692	750	750	23	47			
10/23/2019	XX	GW302C3JA	0.71	0.05 U		860	4 U	6.1	661	730	730	22	45			
6/17/2020	XX	GW302C415	1.9	0.05 U		1000	4 U	1 U	801	1000	1000	27	54			
8/5/2020	XD	GWDP3X437	1	0.05 U		900	4.8	1.4	775	800	800	24	46			
8/5/2020	XX	GW302C43E	1.5	0.05 U		900	4 U	1.3	735	820	820	24	44			
10/21/2020	XD	GWDP1X45I	5.3	0.05 U		1000	4 U	6.4	824	920	920	30	53			
10/21/2020	XX	GW302C44D	5.3	0.05 U		970	4 U	1 U	723	910	910	30	52			
6/22/2021	XX	GW302C468	1.9	0.05 U		1200	5.2	1 U	977	1100	1100	33	60			

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(302C)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
9/22/2021	XX	GW302C483	3.3	0.05 U		1000	4 U	1 U	812	990	990	29	55				
9/22/2021	XD	GWDP1X498	3.4	0.05 U		1100	4 U	1 U	782	990	990	29	54				
303A																	
4/27/2000	XX	303AXX36643	8.15	6.3		815	7	13.8	693.9	680	747.4	10.1	33				
8/2/2000	XX	303AXX36740	7.83	2.7		853	6	15.7	665.3	680	773.7	10.4	44.4				
10/25/2000	XX	303AXX36824	5.21	3.5		1262	4	12.4	1065.1	1180	1254.9	22.7	75.8				
5/9/2001	XX	303AXX37020	11.7	8		1537	6	12.4	1260.7	1470	1470	25.4	79.8				
7/25/2001	XX	303AXX37097	5.48	4.1		1120	4	14.5	927.8	1030	1035	11.2	43.8				
10/17/2001	XX	303AXX37181	6.52	1.2		1476	4	13.2	1274.3	1385	1395	11.9	83.9				
5/16/2002	XX	303AXX37392	11.2	3.6		993	1	13	829	840	916	10.7	39.2				
8/1/2002	XX	303AXX37469	10.78	7.1		920	4	20.7	728.3	770	842	158.5	39.1				
10/17/2002	XX	303AXX37546	9.66	1.2		1104	1	21.4	863.4	1000	1040	14	61.9				
6/23/2003	XX	303AXX37795	12	7.7		820	1 U	16	700	740	760	9.4	28				
8/19/2003	XX	303AXX37852	13	3.1		870	1 U	14	800	790	830	10	29				
10/14/2003	XX	303AXX37908	15	2 U		1000	1 U	20	980	920	1000	15	37				
5/3/2004	XX	303AXX38110	16	2.4		920	1 U	21	1000	820	840	12	31				
8/17/2004	XX	303AXX38216	17	2 U		1000	1 U	18	990	930	1000	15	35				
10/19/2004	XX	303AXX38279	18	2 U		1100	1 U	14	1200	1120	1200	27	42				
5/18/2005	XX	GW303A001	24	3		930	1 U	15	1000	600	200	12	31				
8/15/2005	XX	GW303A02A	15	2.3		690	1.5	16	710	180	650	7.4	24				
11/3/2005	XX	GW303A042	12	2 U		970	6.5	14	970	960	1000	13	46				
5/11/2006	XX	GW303A081	12	2 U		600	1 U	19	690	520	580	8.7	25				
7/26/2006	XX	GW303A076	10	2 U		580	1 U	18	640	540	590	7.2	19				
10/24/2006	XX	GW303A05E	11	2 U		770	1 U	18	640	720	750	11	32				
5/15/2007	XX	GW303A0AA	9.3	2 U		810	1 U	15	660	840	890	9.9	24				
8/15/2007	XX	GW303A0C3	8.4	0.56		690	1 U	16	540	550	590	29	23				
8/15/2007	XD	GWDP2X0EF	8.7	0.56		700	1 U	16	540		610	21	23				
10/29/2007	XX	GW303A0DF	6.1	0.5 U		970	1 U	14	1000	900	950	23	42				
6/2/2008	XX	GW303A0G3	7.9	1.6		660	1 U	17	640	640	690	8	20				
8/13/2008	XX	GW303A0I3	7.1	1.1		560	1 U	17	440	530	580	7.4	14				
10/20/2008	XX	GW303A0JB	6.3	0.78		590	1 U	18	470	530	570	9.7	19				
5/5/2009	XX	GW303A11B	8.5	0.86		730	0.6 U	15	780	690	730	15	19				
8/6/2009	XX	GW303A13B	7.6	3.1		580	2 U	41	650	520	560	9.7	38				
10/21/2009	XX	GW303A14J	6.8	1		560	1 U	16	390	480	510	10	15				
5/27/2010	XX	GW303A170	6.6	2		510	1.1 U	18	530	470	490	8.3	11				
8/4/2010	XX	GW303A191	7.5	0.55 H		530	1 U	14	530	540	560	12	16				
10/14/2010	XX	GW303A1A9	4.8	0.5 U		710	1.2	14	540	730	750	15	26				
5/17/2011	XX	GW303A1E5	6.5	2.8		500	4.2 U	11	420	490	490	9.3	8.8				
8/9/2011	XX	GW303A1FG	6.6	1.4		390	0.38 U	14	310	380	380	7.6	9.4				
11/3/2011	XX	GW303A1H7	7.9	0.46 J		540	0.32 U	14	440	560	560	13	15				
5/17/2012	XX	GW303A1J1	7.9	1.4		300	2.5 U	13	450	490	490	6.99	8.6				
8/15/2012	XX	GW303A20E	7.1	0.83		480	2.5 U	15	400	490	490	6.82	9.5				
11/1/2012	XX	GW303A228	8.5	0.25 U		550	2.5 U	12	510	530	530	8.7	15				
5/21/2013	XX	GW303A242	6.3	1.7		460	2.5 U	16	390	480	480	5.2	8.6				
7/24/2013	XX	GW303A25G	6.6	2.1		460	2.5 U	15	320	440	440	4.8	7.3				
10/2/2013	XX	GW303A27A	6.6	0.41		430	2.5 U	15	340	430	430	4.8	9.2				
6/3/2014	XX	GW303A294	6	2.5		500	4 U	13	388	440	440	5.3	9.6				
8/20/2014	XX	GW303A2AI	6.7	0.57		450	4 U	13	363	450	450	5.1	11				
11/12/2014	XX	GW303A2CC	9.2	0.05 U		620	4 U	10	511	610	610	7.8	17				

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(303A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride					
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
6/3/2015	XX	GW303A2E8	6.5	2.3		430	4 U	10	322	400	400	4.8	9					
9/1/2015	XX	GW303A2G3	6.3	0.86		300	4 U	11	305	360	360	4.6	8					
11/3/2015	XX	GW303A2HH	7.1	0.24		500	4 U	15	401	480	480	6.3	13					
6/15/2016	XX	GW303A317	4.4	2.6		350	4 U	15	255	270	270	2.9	5.8					
9/20/2016	XX	GW303A331	5.9	0.093		350	4 U	14	320	370	370	4.9	13					
11/8/2016	XX	GW303A34F	6.1	0.05 U		550	4 U	14	434	630	630	7.1	19					
6/13/2017	XX	GW303A36A	5.3	1.2		420	4 U	13	304	370	370	4.5	7.7					
8/30/2017	XX	GW303A384	5.1	0.76		380	4 U	13	289	360	360	3.9	7.8					
11/15/2017	XX	GW303A39I	6.3	0.05 U		510	4 U	11	461	510	510	7.2	17					
6/20/2018	XX	GW303A3BD	5.1	2.1		360	4 U	14	292	330	330	3.7	5.3					
8/15/2018	XX	GW303A3E2	5.1	0.05 U		360	4 U	15	263	340	340	4	6.7					
11/27/2018	XX	GW303A3F1	7.5	0.66		690	4 U	11	570	690	690	10	20					
6/4/2019	XX	GW303A3GG	5	2.5		410	4 U	12	286	350	350	4.7	5.9					
8/14/2019	XD	GWDP1X3I2	5.3	1.1		360	4 U	15	240	320	320	3.9	6.4					
8/14/2019	XX	GW303A3J5	5.3	0.94		350	4 U	16	221	350	350	3.9	6.9					
10/22/2019	XX	GW303A404	5.7	0.05 U		430	4 U	12	330	380	380	5.9	11					
6/16/2020	XX	GW303A41J	5.6	2.3		400	4 U	9	318	400	400	4.9	4.2					
8/4/2020	XD	GWDP1X435	5.7	0.74		360	4 U	11		380	380	4.9	5.8					
8/4/2020	XD	GWDP1X435R							326									
8/4/2020	XX	GW303A448	5.7	0.96		340	4 U	10		360	360	4.8	5					
8/4/2020	XX	GW303A448R							328									
10/20/2020	XX	GW303A457	7.4	0.05 U		510	4 U	9.9	462	520	520	7.7	17					
6/22/2021	XX	GW303A472	5.7	2.1		380	4 U	13	331	370	370	5.3	5.8					
9/21/2021	XX	GW303A48H	6.2	0.064		440	4 U	11	386	500	500	6.3	12					
303B																		
4/27/2000	XX	303BXX36643	5.36	8		444	35	8.1	349.6	300	364.6	5	18					
8/2/2000	XX	303BXX36740	4.94	2.8		826	1	12.1	675.3	700	784.8	12.7	51.6					
10/25/2000	XX	303BXX36824	3.92	5.1		1605	7	7.6	1337.8	1480	1545.3	30.5	85.4					
5/9/2001	XX	303BXX37020	10.2	12.5		1051	1	8.1	733	950	982.5	14	49.6					
7/25/2001	XX	303BXX37097	6.26	3.6		1143	2	10.7	890.3	860	930	16.4	51.1					
10/17/2001	XX	303BXX37181	8.7	5.7		1604	5	11.3	1392.2	1514	1523	24.4	86.1					
5/16/2002	XX	303BXX37392	7.28	8.2		673	1	8.3	505.3	485	560	1 U	20.6					
8/2/2002	XX	303BXX37470	5.16	10.5		650	2	11.9	460	480	528	7.9	33.9					
10/17/2002	XX	303BXX37546	4.38	1.9		1296	7	19.9	999.1	1150	1198	20.4	75.8					
6/23/2003	XX	303BXX37795	9.9	13		510	1 U	16	450	420	470	7.1	16					
8/19/2003	XX	303BXX37852	11	2.8		810	1 U	11	770	780	820	13	30					
10/14/2003	XX	303BXX37908	12	2 U		1100	1 U	9.9	1100	1040	1100	21	38					
5/3/2004	XX	303BXX38110	12	5.5		680	1 U	12	650	590	610	10	20					
8/17/2004	XX	303BXX38216	14	2		1100	1 U	10	970	970	1100	16	39					
10/19/2004	XX	303BXX38279	15	2.5		1100	1 U	9	1100	1120	1200	23	35					
5/18/2005	XX	GW303B00J	20 U	6.8		520	1 U	13	170	440	480	6.1	12					
8/15/2005	XX	GW303B02B	10	4		490	1 U	14	410	400	440	7.1	26					
11/3/2005	XX	GW303B043	12	3.4		840	3.5	9	890	800	850	12	35					
5/11/2006	XX	GW303B08J	7.8	2 U		530	1 U	16	570	485	510	9.3	24					
7/26/2006	XX	GW303B077	7.7	2.7		420	1 U	15	440	400	420	6	15					
10/24/2006	XX	GW303B05F	6.9	2 U		790	1 U	13	920	780	810	13	35					
5/15/2007	XX	GW303B0AB	7.5	4.3		480	1 U	15	390	460	480	5.2	8.6					
8/15/2007	XX	GW303B0C4	0.21	1.6		650	1 U	13	490	470	510	37	29					
10/29/2007	XX	GW303B0DG	4.9	0.68		1100	1 U	10	1200	920	1000	26	44					

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(303B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
6/3/2008	XX	GW303B0G4	6.5	4.4		370	1 U	15	390	380	380	8	7.1			
8/13/2008	XX	GW303B0I4	5.5	2.5		350	1 U	17	280	330	360	6.3	9.5			
10/20/2008	XX	GW303B0JC	4.5	1.1		540	1 U	15	450	490	520	11	21			
5/5/2009	XX	GW303B11C	7.5	3.1		460	0.6 U	13	410	430	440	8.5	8.5			
8/6/2009	XX	GW303B13C	5.9	7.3		340	2 U	35	240	290	320	5.9	20			
10/21/2009	XX	GW303B150	4.4	1.5		460	1 U	13	360	410	420	12	17			
5/27/2010	XX	GW303B171	4.7	3.4		320	1 U	17	260	290	300	6.1	6.2			
8/4/2010	XX	GW303B192	6	0.84 H		540	1 U	10	550	550	580	12	19			
8/4/2010	XD	GWDP2X181	6.2	0.7 H		550	1.1 U	10	430		580	12	18			
10/14/2010	XX	GW303B1AA	2.4	4.6		720	1.1 U	10	530	705	720	16	24			
5/17/2011	XX	GW303B1E6	4.4	4.4		280	4.2 U	12	220	260	260	5.3	4.3			
8/9/2011	XX	GW303B1FH	4.2	1.7		320	0.38 U	13	180	290	290	6.5	11			
11/3/2011	XX	GW303B1H8	5.2	1.1 J		500	0.32 U	11	400	510	510	11	11			
5/17/2012	XX	GW303B1J2	6.4	2.6		120	2.5 U	12	290	330	330	5.08	5.4			
8/15/2012	XX	GW303B20F	5.7	2		370	2.5 U	12	300	350	350	6	7.2			
11/1/2012	XX	GW303B229	6.8	0.89		670	2.5 U	11	580	600	600	10	14			
5/21/2013	XX	GW303B243	4.8	3.8		250	2.5 U	14	230	270	270	3.7	4			
7/24/2013	XX	GW303B25H	4.4	3.2		290	2.5 U	12	190	250	250	3.9	4			
10/2/2013	XX	GW303B27B	4.6	0.35		370	2.5 U	9.6	300	390	390	5.6	8.7			
6/3/2014	XX	GW303B295	4.6	3.3		340	4 U	12	239	280	280	3.5	6.2			
8/20/2014	XX	GW303B2AJ	5.7	1.2		410	4 U	11	326	400	400	5.3	11			
11/12/2014	XX	GW303B2CD	7.3	2.1		700	4 U	6.4	572	660	660	9.1	18			
6/3/2015	XX	GW303B2E9	4.2	3.4		310	4 U	9.6	229	270	270	3.5	6.3			
9/1/2015	XX	GW303B2G4	2.8	1.9		350	4 U	9.7	268	280	280	4.4	8.2			
11/3/2015	XX	GW303B2HI	4.7	1.6		420	4 U	9.6	348	390	390	5.4	8.5			
6/15/2016	XX	GW303B318	2.6	2.4		230	4 U	13	157	170	170	2.3	5			
9/20/2016	XX	GW303B332	4.3	1.3		510	4 U	10	400	430	430	6.6	15			
11/8/2016	XX	GW303B34G	4.2	2.6		600	4 U	8.4	523	620	620	9.2	19			
6/13/2017	XX	GW303B36B	3.2	2		100	4 U	12	191	210	210	3.3	4.2			
8/30/2017	XX	GW303B385	2.7	3		300	4 U	13	220	240	240	3.4	8.4			
11/15/2017	XX	GW303B39J	5	0.98		610	4 U	6.2	554	640	640	9	18			
6/20/2018	XX	GW303B3BE	3.8	2.4		240	4 U	13	168	190	190	2.8	3			
8/15/2018	XX	GW303B3E3	2.7	0.82		340	4 U	13	252	270	270	4.2	9.1			
11/27/2018	XX	GW303B3F2	5.4	3.8		650	4 U	7.2	565	680	680	9.7	17			
6/4/2019	XX	GW303B3GH	3.9	2.6		260	4 U	12	182	220	220	3.4	3.1			
8/14/2019	XX	GW303B3J6	3.2	1.8		250	4 U	14	178	210	210	3.2	6.3			
10/22/2019	XX	GW303B405	4.6	0.16		490	4 U	9.6	415	430	430	7.6	15			
6/16/2020	XX	GW303B420	4.6	2.9		280	4 U	9.7	205	260	260	3.4	2.8			
8/4/2020	XX	GW303B449	5.5	0.62		290	4 U	10		320	320	4.9	7.6			
8/4/2020	XX	GW303B449R							301							
10/20/2020	XX	GW303B458	6.2	3.1		570	4 U	6.5	508	580	580	9.7	16			
6/22/2021	XX	GW303B473	3.4	2.3		270	4 U	12	229	250	250	4.2	4.8			
9/21/2021	XX	GW303B481	4.9	0.61		500	4 U	8.2	464	560	560	8.7	15			
304A																
5/3/2000	XX	304AXX36649	0.1 U	1.4		216	14	13.7	164.3	145	164.6	1.6	9.5			
8/9/2000	XX	304AXX36747	0.1 U	1.3		191	2	15.4	114.8	135	148.5	2.9	8.5			
11/9/2000	XX	304AXX36839	0.1 U	1.1		289	1 U	14.5	70.3	170	180.8	1	10.3			
5/16/2001	XX	304AXX37027	0.1 U	1.4		210	1	16.9	108.5	160	164	1.6	13.2			
7/31/2001	XX	304AXX37103	0.1 U	1 U		198	2	15.8	102.6	146	146	7.6	9			

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(304A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/23/2001	XX	304AXX37187	0.1 U	1 U		236	3	15.9	165.3	166	175	1.7	15.4				
5/21/2002	XX	304AXX37397	0.12	1 U		241	1 U	17.9	117.4	180	180	1 U	16.8				
7/30/2002	XX	304AXX37467	0.1 U	1 U		232	1	19.4	109.1	165	170	1.1	14				
10/22/2002	XX	304AXX37551	0.1 U	1 U		265	2	19.5	137.9	205	220	1 U	18				
6/24/2003	XX	304AXX37796	0.2 U	2 U		220	1 U	15	230	195	210	1 U	11				
8/7/2003	XX	304AXX37840	0.2 U	2 U		210	1 U	15	210	170	180	1 U	7.2				
10/21/2003	XX	304AXX37915	0.2 U	2 U		260	1 U	17	250	200	220	1.2	12				
5/10/2004	XX	304AXX38117	0.2 U	2 U		210	1 U	14	220	190	210	1	9.1				
7/28/2004	XX	304AXX38196	0.2 U	2 U		210	1 U	16	190	195	210	1 U	9.6				
10/21/2004	XX	304AXX38281	0.2 U	2 U		320	1 U	16	240	200	220	1 U	11				
5/10/2005	XX	GW304A010	0.2 U	2 U		290	1 U	5.6	260	180	190	1 U	4.8				
7/28/2005	XX	GW304A02C	0.2 U	2 U		200	1.2	13	190	180	190	1 U	6.2				
11/8/2005	XX	GW304A044	0.2 U	2 U		240	1 U	13	130	200	220	1.2	7.6				
5/3/2006	XX	GW304A090	0.2 U	2 U		170	1.5	13	200	145	180	1.3	8.5				
8/1/2006	XX	GW304A078	0.24	2 U		230	23	12	240	190	200	1.1	8.7				
10/26/2006	XX	GW304A05G	0.2 U	2 U		239	5.5	13	180	180	190	1 U	9.7				
5/8/2007	XX	GW304A0AC	0.5 U	0.5 U		190	1.9	5.8	190	190	200	1 U	7				
8/7/2007	XX	GW304A0C5	0.2 U	0.5 U		250	1 U	11	190	180	190	3.8	12				
8/7/2007	XD	GWDP4X0EH	0.2 U	0.5 U		240	1 U	11	230		180	2.8	12				
10/31/2007	XX	GW304A0DH	0.2 U	0.5 U		260	1 U	13	270	180	190	1 U	18				
6/3/2008	XX	GW304A0G5	0.2 U	0.5 U		210	1 U	11	160	150	160	1.8	8.2				
8/18/2008	XX	GW304A0I5	0.2 U	0.5 U		240	1 U	13	150	160	170	1.1	9.4				
10/23/2008	XX	GW304A0JD	0.2 U	0.5 U		210	1 U	11	180	160	170	1 U	9				
10/23/2008	XD	SWDP4X109	0.2 U	0.5 U		210	1 U	11	170		170	1.2	9.1				
5/12/2009	XX	GW304A11D	0.2 U	0.5 U		190	0.6 U	13	140	155	160	1.2	7.4				
8/11/2009	XX	GW304A13D	0.2 U	0.5 U		240	1.7	13	170	120	150	1.6	5.8				
10/26/2009	XX	GW304A151	0.2 U	0.5 U		290	1.1	13	160	155	160	1.3	7.1				
6/2/2010	XX	GW304A172	0.2 U	0.5 U		190	2.3	14	170	150	150	2.2	6.8				
8/5/2010	XX	GW304A193	0.2 U	0.5 U		170	1.1 U	13	160	150	150	1	6.1				
10/18/2010	XX	GW304A1AB	0.2 U	0.5 U		200	1.3 U	12	130	130	130	1.3	11				
5/19/2011	XX	GW304A1DC	0.2 U	0.5 U		150	5 U	12	130	140	140	1.1	5.1				
8/8/2011	XX	GW304A1F3	0.08 U	0.2 U		180	0.38 U	13	90	140	140	0.94 J	5.1				
8/8/2011	XD	GWDP2X1G8	0.08 U	0.2 U		720	0.38 U	7.6	130	680	680	0.8 J	33				
11/2/2011	XX	GW304A1GE	0.082 U	0.2 U		170	0.32 U	13	130	140	140	1.3	3.8				
5/15/2012	XX	GW304A1I8	0.2 U	0.09 U		130	2.5 U	9.9	130	130	130	1	4.1				
5/15/2012	XD	GWDP3X1JE	0.2 U	0.09 U		130	2.5 U	10	140	130	130	1.2	4.5				
8/15/2012	XX	GW304A201	0.2 U	0.25 U		140	2.5 U	12	110	120	120	1.36	2.5				
10/31/2012	XX	GW304A21F	0.2 U	0.25 U		140	2.5 U	11	130	130	130	0.8	8.6				
10/31/2012	XD	GWDP1X22J	0.2 U	0.25 U		150	2.5 U	11	130	130	130	0.6	9.3				
5/21/2013	XX	GW304A239	0.2 U	0.25 U		140	2.5 U	13	120	130	130	0.63	6.1				
5/21/2013	XD	GWDP1X24D	0.8	0.25 U		160	2.5 U	12	120	130	130	0.8	9.7				
7/25/2013	XX	GW304A253	0.2 U	0.25 U		180	2.5 U	12	120	130	130	0.64	6.5				
7/25/2013	XD	GWDP3X269	0.2 U	0.25 U		180	2.5 U	13	120	130	130	0.82	6.9				
10/2/2013	XX	GW304A26H	0.2 U	0.25 U		170	2.5 U	12	120	130	130	0.58	9.5				
10/2/2013	XD	GWDP2X283	0.2 U	0.25 U		180	2.5 U	12	120	130	130	0.53	9.9				
6/4/2014	XX	GW304A28B	0.1 U	0.05 U		160	4 U	13	121	110	110	1 U	6.9				
6/4/2014	XD	GWDP1X29F	0.1 U	0.05 U		160	4 U	13	118	120	120	1 U	6.5				
8/20/2014	XX	GW304A2A5	0.1 U	0.05 U		160	6	13	121	140	140	1 U	7				
8/20/2014	XD	GWDP1X2B9	0.1 U	0.05 U		150	4 U	13	119	130	130	1 U	7.8				
11/12/2014	XX	GW304A2BJ	0.1 U	0.05 U		160	4 U	10	103	120	120	1 U	6				

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(304A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
11/12/2014	XD	GWDP2X2D5	0.1 U	0.05 U		140	4 U	10	106	130	130	1 U	6.1				
6/3/2015	XX	GW304A2DF	0.1 U	0.05 U		160	4 U	11	112	120	120	1 U	5.1				
6/3/2015	XD	GWDP1X2EJ	0.1 U	0.05 U		150	4 U	11	108	120	120	1 U	5.1				
9/2/2015	XX	GW304A2FA	0.1 U	0.052		160	4 U	12	117	120	120	1 U	4.3				
9/2/2015	XD	GWDP1X2GE	0.1 U	0.05 U		160	4 U	12	125	120	120	1 U	4.6				
11/4/2015	XX	GW304A2H4	0.1 U	0.05 U		180	4 U	11	121	130	130	1 U	5.6				
11/4/2015	XD	GWDP2X2IA	0.1 U	0.05 U		180	4 U	11	116	130	130	1 U	5.5				
6/16/2016	XD	GWDP1X31I	0.1 U	0.05 U		150	4 U	13	114	120	120	1 U	4.7				
6/16/2016	XX	GW304A30E	0.1 U	0.05 U		150	4 U	13	112	120	120	1 U	4.5				
9/21/2016	XD	GWDP1X33C	0.1 U	0.05 U		190	4 U	14	107	120	120	1 U	3.6				
9/21/2016	XX	GW304A328	0.1 U	0.05 U		140	4 U	14	109	110	110	1 U	3.3				
11/8/2016	XD	GWDP2X358	0.1 U	0.05 U		140	4 U	13	117	140	140	1 U	5.6				
11/8/2016	XX	GW304A342	0.1 U	0.05 U		150	4 U	13	118	140	140	1 U	4.6				
6/14/2017	XD	GWDP1X371	0.1 U	0.05 U		140	4 U	14	116	120	120	1 U	4				
6/14/2017	XX	GW304A35H	0.1 U	0.05 U		140	4 U	14	121	180	180	1 U	3.4				
8/29/2017	XD	GWDP1X38F	0.1 U	0.05 U		180	4 U	12	108	120	120	1 U	2.9				
8/29/2017	XX	GW304A37B	0.1 U	0.05 U		160	4 U	12	111	120	120	1 U	3.5				
11/14/2017	XD	GWDP2X3AB	0.1 U	0.05 U		160	4 U	11	109	120	120	1 U	3.9				
11/14/2017	XX	GW304A395	0.1 U	0.05 U		150	4 U	12	104	120	120	1 U	3.8				
6/21/2018	XD	GWDP1X3C4	0.1 U	0.05 U		190	4 U	13	113	120	120	1 U	2 U				
6/21/2018	XX	GW304A3B0	0.1 U	0.05 U		170	4.8	13	125	120	120	1 U	2 U				
8/15/2018	XD	GWDP1X3CJ	0.1 U	0.05 U		170	4 U	14	109	120	120	1 U	2.7				
8/15/2018	XX	GW304A3D9	0.1 U	0.05 U		150	8	14	111	120	120	1 U	2.2				
11/30/2018	XD	GWDP2X3FE	0.1 U	0.05 U		140	4 U	12	118	120	120	1 U	4.7				
11/30/2018	XX	GW304A3E8	0.1 U	0.05 U		110	4 U	12	119	120	120	1 U	4.5				
6/5/2019	XD	GWDP1X3H7	0.1 U	0.05 U		170	4 U	12	110	120	120	1 U	3.7				
6/5/2019	XX	GW304A3G3	0.1 U	0.05 U		160	4 U	12	107	120	120	1 U	3				
8/14/2019	XX	GW304A3IC	0.1 U	0.05 U		160	4 U	14		120	120	1 U	3.1				
8/14/2019	XX	GW304A3ICR							117								
10/24/2019	XD	GWDP2X40H	0.1 U	0.05 U		160	5.2	12	107	120	120	1 U	2.9				
10/24/2019	XX	GW304A3JB	0.1 U	0.05 U		150	4 U	12	112	120	120	1 U	3.3				
6/17/2020	XD	GWDP1X42A	0.1 U	0.05 U		150	4 U	10	114	140	140	1 U	2.8				
6/17/2020	XX	GW304A416	0.1 U	0.05 U		140	4 U	11	106	130	130	1 U	2.1				
8/5/2020	XX	GW304A43F	0.1 U	0.05 U		120	4 U	11	113	120	120	1 U	2.1				
10/22/2020	XD	GWDP2X460	0.1 U	0.05 U		160	4 U	9.2	128	130	130	1 U	4.8				
10/22/2020	XX	GW304A44E	0.1 U	0.05 U		170	4 U	9.4	129	130	130	1 U	4.5				
6/22/2021	XD	GWDP1X47D	0.1 U	0.05 U		140	4 U	13	110	130	130	1 U	3				
6/22/2021	XX	GW304A469	0.1 U	0.05 U		99	4 U	13	114	130	130	1 U	2.8				
9/22/2021	XX	GW304A484	0.1 U	0.05 U		150	4 U	11	127	140	140	1 U	4.6				
9/22/2021	XD	GWDP2X49A	0.1 U	0.05 U		150	7.2	11	130	140	140	1 U	4.5				
304B																	
5/3/2000	XX	304BXX36649	0.1 U	1 U		67	86	2.9	22	22	24.2	5	1.4				
8/9/2000	XX	304BXX36747	0.1 U	1 U		122	16	7.7	39.4	54	61.6	1	20.3				
11/9/2000	XX	304BXX36839	0.1 U	1 U		168	1	6.5	74.3	58	58.6	1 U	63.7				
5/16/2001	XX	304BXX37027	0.1 U	1 U		163	1 U	13.4	47.6	74	75	1 U	34.1				
7/31/2001	XX	304BXX37103	D	D			D	D	D	D	D	D	D				
10/23/2001	XX	304BXX37187	0.1 U	1 U		204	16	20.7	121.4	110	115	1.7	25.7				
5/21/2002	XX	304BXX37397	0.1	1 U		125	1	8.9	49.8	76	80	1	13.4				
7/30/2002	XX	304BXX37467	0.1 U	1 U		187	1 U	14	68.7	120	122	1.4	15.6				

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(304B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/22/2002	XX	304BXX37551	0.1 U	1 U		175	2	13.3	73.8	110	116	1.5	21.7				
6/24/2003	XX	304BXX37796	0.2 U	2 U		120	1 U	12	130	100	100	1 U	19				
8/7/2003	XX	304BXX37840	0.2 U	2 U		120	1 U	11	110	96	100	1 U	13				
10/21/2003	XX	304BXX37915	0.2 U	2 U		140	1 U	11	100	92	93	1.4	14				
5/10/2004	XX	304BXX38117	0.2 U	2 U		63	1 U	10	87	70	70	1 U	12				
7/28/2004	XX	304BXX38196	0.2 U	2 U		98	1 U	10	74	78	81	1 U	9.7				
10/21/2004	XX	304BXX38281	0.2 U	2 U		180	1 U	11	92	78	83	1 U	8.7				
5/10/2005	XX	GW304B011	0.2 U	2 U		100	1 U	6.8	59	58	59	1 U	11				
7/28/2005	XX	GW304B02D	0.2 U	2 U		180	16	7.6	110	60	63	1 U	34				
11/8/2005	XX	GW304B045	0.2 U	2 U		150	1 U	6.8	99	62	65	1 U	33				
5/3/2006	XX	GW304B091	0.2 U	2 U		120	1 U	6.8	62	56	57	1 U	11				
8/1/2006	XX	GW304B079	0.24	2 U		120	1 U	7.1	85	60	61	1 U	24				
10/26/2006	XX	GW304B05H	0.2 U	2 U		96	1 U	5.9	77	56	56	1 U	26				
5/8/2007	XX	GW304B0AD	0.5 U	0.5 U		98	1 U	6.7	74	68	69	1 U	13				
8/7/2007	XX	GW304B0C6	0.2 U	0.5 U		160	2.1	6.1	98	68	69	2.2	28				
10/31/2007	XX	GW304B0D1	0.2 U	0.5 U		160	1 U	6.1	85	68	69	1 U	29				
6/5/2008	XX	GW304B0G6	0.2 U	0.5 U		98	1 U	6.9	53	54	54	1 U	5.8				
6/5/2008	XD	LTDP4X0F5	0.2 U	0.5 U		100	1 U	6.9	56		54	1 U	5.9				
8/18/2008	XX	GW304B0I6	0.2 U	0.5 U		100	1 U	5.4	35	46	46	1.2	3.1				
10/23/2008	XX	GW304B0JE	0.2 U	0.5 U		93	3.7	6.5	50	53	53	1.4	3.3				
5/12/2009	XX	GW304B11E	0.2 U	0.5 U		67	0.6 U	3.5	20	28	28	1	4.3				
8/11/2009	XX	GW304B13E	0.2 U	0.5 U		140	0.6 U	3.5	69	33	33	1	30				
10/26/2009	XX	GW304B152	0.2 U	0.5 U		110	5.8	4.1	44	31	33	1.6	20				
6/2/2010	XX	GW304B173	0.2 U	0.5 U		72	1 U	4.4	38	42	42	1.1	5.4				
8/5/2010	XX	GW304B194	0.2 U	0.5 U		89	1.7	5.2	47	40	40	1.2	21				
10/18/2010	XX	GW304B1AC	0.2 U	0.5 U		85	1.6	3.8	38	34	34	2.2	21				
10/18/2010	XD	GWDP3X1B6	0.2 U	0.5 U		100	1.4	3.9	35		34	2.4	21				
5/19/2011	XX	GW304B1DD	0.2 U	0.5 U		25	5 U	2.9	19	26	26	1 U	3.8				
8/8/2011	XX	GW304B1F4	0.08 U	0.2 U		87	0.38 U	Y4	28	39	39	0.72 J	18				
11/2/2011	XX	GW304B1GF	0.082 U	0.2 U		75	0.32 U	3.8	44	34	34	1.3	15				
5/15/2012	XX	GW304B1I9	0.2 U	0.09 U		13	2.5 U	2.5	29	26	26	1	6.5				
8/15/2012	XX	GW304B202	0.2 U	0.25 U		160	2.5 U	3.6	68	36	36	1 U	46				
10/31/2012	XX	GW304B21G	0.2 U	0.25 U		52	2.5 U	3.1	53	34	34	0.96	22				
5/21/2013	XX	GW304B23A	0.67	0.25 U		34	2.5 U	3.8	32	37	37	0.69	9.8				
7/25/2013	XX	GW304B254	0.2 U	0.25 U		90	2.5 U	5.1	41	41	41	0.85	9.8				
10/2/2013	XX	GW304B26I	0.2 U	0.25 U		72	2.5 U	5.8	36	42	42	0.7	7.5				
6/4/2014	XX	GW304B28C	0.1 U	0.05 U		69	4 U	5.5	37.3	44	44	1 U	5				
8/20/2014	XX	GW304B2A6	0.1 U	0.053		68	4 U	4.6	36.9	43	43	1 U	9.4				
11/12/2014	XX	GW304B2C0	0.1 U	0.05 U		63	4 U	3.1	26.5	31	31	1.2	7.2				
6/3/2015	XX	GW304B2DG	0.1 U	0.05 U		29	4 U	2.9	20.2	26	26	1 U	3.3				
9/2/2015	XX	GW304B2FB	0.1 U	0.05 U		75	4 U	5	35.9	43	43	1 U	4.7				
11/4/2015	XX	GW304B2H5	0.1 U	0.05 U		73	4 U	5.8	27	35	35	1 U	4.2				
6/16/2016	XX	GW304B30F	0.1 U	0.05 U		64	4 U	3.6	29.2	39	39	1 U	5.1				
9/21/2016	XX	GW304B329	0.1 U	0.05 U		75	16	4.5	33.2	44	44	1 U	3.6				
11/8/2016	XX	GW304B343	0.1 U	0.057		96	4 U	5.3	52.2	71	71	1 U	7.5				
6/14/2017	XX	GW304B35I	0.1 U	0.05 U		72	4 U	4.7	37.1	48	48	1 U	3.4				
8/29/2017	XX	GW304B37C	0.1 U	0.05 U		71	14	1.8	27.8	38	38	1 U	2.9				
11/14/2017	XX	GW304B396	0.1 U	0.05 U		75	4 U	2.7	37.8	48	48	1 U	3.9				
6/21/2018	XX	GW304B3B1	0.1 U	0.05 U		84	4 U	3.8	36.8	43	43	1 U	3.8				
8/15/2018	XX	GW304B3DA	0.1 U	0.05 U		88	4.4	2.8	40.1	40	40	1 U	9				

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(304B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
11/30/2018	XX	GW304B3E9	0.1 U	0.05 U		22	4 U	1 U	18.2	24	24	2.1	2.3				
6/5/2019	XX	GW304B3G4	0.1 U	0.05 U		110	5.2	2.3	36.7	45	45	1 U	3.8				
8/14/2019	XX	GW304B3ID	0.1 U	0.05 U		77	47	4.6	42.4	55	55	1 U	6				
10/24/2019	XX	GW304B3JC	0.1 U	0.05 U		65	47	4.2	37.7	49	49	1 U	5.3				
6/17/2020	XX	GW304B417	0.1 U	0.05 U		84	6	3.6	40.1	62	62	1 U	4.1				
8/5/2020	XX	GW304B43G	0.1 U	0.05 U		39	66	3.6	50.7	58	58	1 U	5.2				
10/22/2020	XX	GW304B44F	0.1 U	0.05 U		68	6.8	3.2	22.6	34	34	2.6	2.9				
6/22/2021	XX	GW304B46A	0.1 U	0.05 U		100	10	3.8	60.7	72	72	1.1	6.2				
9/22/2021	XX	GW304B485	0.1 U	0.05 U		220	4 U	3.8	95.3	110	110	1 U	15				
401A																	
5/3/2000	XX	401AXX36649	0.1 U	1 U		128	15	5.4	78.7	78	87.9	1.1	3.6				
8/10/2000	XX	401AXX36748	0.1 U	1 U		136	1	6.2	56	78	80.8	1.2	4.3				
11/9/2000	XX	401AXX36839	0.1 U	1 U		125	1 U	6.8	49.8	100	103.2	1 U	4.6				
5/17/2001	XX	401AXX37028	0.1 U	1 U		126	1	7.5	59.2	95	96	1 U	3.7				
8/1/2001	XX	401AXX37104	0.1 U	1 U		131	3	8.3	61.7	79	79	3.2	4				
10/24/2001	XX	401AXX37188	0.1 U	1 U		133	3	10.1	71.6	94	99	1.1	4.1				
5/22/2002	XX	401AXX37398	0.1 U	1 U		137	4	9.2	60.6	90	94	1 U	3.2				
7/30/2002	XX	401AXX37467	0.1 U	1 U		145	2	9.9	59.5	98	100	1.1	3.4				
10/22/2002	XX	401AXX37551	0.1 U	1 U		125	1 U	11.1	60.7	98	102	1 U	4				
6/25/2003	XX	401AXX37797	0.2 U	2 U		99	1 U	10	110	100	100	1 U	2.8				
8/11/2003	XX	401AXX37844	0.2 U	2 U		78	1 U	9.9	100	95	99	1 U	3.6				
10/21/2003	XX	401AXX37915	0.2 U	2 U		120	1 U	11	110	95	98	1 U	4.2				
5/10/2004	XX	401AXX38117	0.2 U	2 U		90	1 U	12	110	95	96	1 U	5.3				
7/29/2004	XX	401AXX38197	0.2 U	2 U		100	1 U	11	95	78	80	1 U	5.3				
10/21/2004	XX	401AXX38281	0.2 U	2 U		180	1 U	12	110	95	96	1 U	5.6				
5/9/2005	XX	GW401A012	0.2 U	2 U		140	1 U	11	100	74	76	1 U	5.7				
7/28/2005	XX	GW401A02E	0.2 U	2 U		160	1.2	12	130	95	97	1 U	5.8				
11/8/2005	XX	GW401A046	0.2 U	2 U		120	1 U	13	120	90	95	1 U	6.2				
5/4/2006	XX	GW401A092	0.2 U	2 U		120	1 U	12	120	97	99	1 U	6.1				
8/2/2006	XX	GW401A07A	0.2 U	2 U		120	1 U	14	100	93	94	12	5.7				
10/30/2006	XX	GW401A05I	0.2 U	2 U		140	1 U	15	110	93	94	1 U	5.9				
5/7/2007	XX	GW401A0AE	0.5 U	0.5 U		130	1 U	13	110	100	110	1 U	5.7				
8/14/2007	XX	GW401A0C7	0.2 U	0.5 U		150	1 U	14	88	93	95	2.3	6.8				
11/5/2007	XX	GW401A0DJ	0.2 U	0.5 U		160	1 U	17	130	98	99	1 U	7.7				
6/5/2008	XX	GW401A0G7	0.2 U	0.5 U		140	1 U	15	110	97	97	1 U	6.1				
8/20/2008	XX	GW401A0I7	0.2 U	0.5 U		160	1 U	17	110	98	99	1	6.4				
10/27/2008	XX	GW401A0JF	0.2 U	0.5 U		140	1 U	15	120	96	98	1 U	7.2				
5/13/2009	XX	GW401A11F	0.2 U	0.5 U		160	0.6 U	18	98	95	96	1 U	7.8				
8/13/2009	XX	GW401A13F	0.2 U	0.5 U		150	0.6 U	17	110	97	99	1 U	6.9				
10/28/2009	XX	GW401A153	0.2 U	0.5 U		120	1 U	18	92	95	98	1 U	8.1				
10/28/2009	XD	SWDP4X15H	0.2 U	0.5 U		140	1 U	18	90		100	1.3	8				
6/3/2010	XX	GW401A174	0.2 U	0.5 U		120	1 U	19	120	95	95	1.6	8				
8/17/2010	XX	GW401A195	0.2 U	0.5 U		150	1 U	19	93	95	99	1.7	8.4				
10/19/2010	XX	GW401A1AD	0.2 U	0.5 U		140	1.3 U	20	93	94	97	1 U	9.1				
5/16/2011	XX	GW401A1DE	0.2 U	0.5 U		140	5 U	18	100	86	86	1.1	9				
8/8/2011	XX	GW401A1F5	0.08 U	0.2 U		2 J	0.7 J	20	72	99	99	1.8	10				
11/1/2011	XX	GW401A1GG	0.082 U	0.2 U		140	0.32 U	20	110	100	100	1	7.9				
5/14/2012	XX	GW401A1IA	0.2 U	0.5 U		100	2.5 U	19	110	89	89	1 U	8				
8/14/2012	XX	GW401A203	0.2 U	0.25 U		160	2.8 U	20	99	95	95	1.14	8.4				

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(401A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
11/1/2012	XX	GW401A21H	0.2 U	0.25 U		150	2.5 U	19	110	85	85	0.86	8.6			
5/21/2013	XX	GW401A23B	0.2 U	0.25 U		130	2.5 U	21	100	96	96	0.68	9.4			
7/22/2013	XX	GW401A255	0.2 U	0.25 U		120	2.5 U	21	100	90	90	0.81	9.4			
9/30/2013	XX	GW401A26J	0.2 U	0.25 U		120	2.5 U	22	78	94	94	0.53	9.4			
6/4/2014	XX	GW401A28D	0.1 U	0.069		160	4 U	23	113	93	94	1 U	10			
8/19/2014	XX	GW401A2A7	0.1 U	0.065		180	7.2	22	113	110	110	1	14			
11/11/2014	XX	GW401A2C1	0.1 U	0.05 U		160	6	24	106	100	100	1 U	12			
6/2/2015	XX	GW401A2DH	0.1 U	0.05 U		160	8.8	23	108	94	94	1 U	11			
9/1/2015	XX	GW401A2FC	0.1 U	0.23		180	4 U	23	121	98	98	1 U	11			
11/3/2015	XX	GW401A2H6	0.1 U	0.05 U		150	4 U	24	118	100	100	1 U	11			
6/14/2016	XX	GW401A30G	0.1 U	0.05 U		160	4 U	23	123	99	99	1 U	12			
9/20/2016	XX	GW401A32A	0.1 U	0.05 U		200	4 U	24	122	100	100	1 U	11			
11/9/2016	XX	GW401A344	0.1 U	0.05 U		170	5.2	25	119	110	110	1.1	12			
6/14/2017	XX	GW401A35J	0.1 U	0.05 U		150	4 U	25	119	12	12	1 U	10			
8/29/2017	XX	GW401A37D	0.1 U	0.05 U		180	4 U	24	120	100	100	1 U	11			
11/14/2017	XX	GW401A397	0.1 U	0.05 U		160	4 U	23	115	93	93	1 U	9.9			
6/20/2018	XX	GW401A3B2	0.1 U	0.05 U		190	4 U	24	120	100	100	1 U	12			
8/15/2018	XX	GW401A3DB	0.1 U	0.05 U		170	4 U	25	119	110	110	1 U	11			
11/30/2018	XX	GW401A3EA	0.1 U	0.064		150	4 U	28	120	96	96	1 U	8.9			
6/5/2019	XX	GW401A3G5	0.1 U	0.05 U		190	4 U	24	116	100	100	1 U	10			
8/14/2019	XX	GW401A3IE	0.1 U	0.05 U		170	4 U	24	125	100	100	1 U	11			
10/22/2019	XX	GW401A3JD	0.1 U	0.05 U		180	4 U	24	127	110	110	1 U	8.9			
6/17/2020	XX	GW401A418	0.1 U	0.05 U		160	4 U	22	120	120	120	1 U	8.9			
8/4/2020	XX	GW401A43H	0.1 U	0.05 U		120	4 U	22		110	110	1 U	9.6			
8/4/2020	XX	GW401A43HR							130							
10/21/2020	XX	GW401A44G	0.1 U	0.05 U		180	4 U	41	135	110	110	1 U	8.8			
6/23/2021	XX	GW401A46B	0.1 U	0.05 U		190	4 U	23	125	110	110	1 U	10			
9/21/2021	XX	GW401A486	0.1 U	0.05 U		140	4.4	24	121	120	120	1 U	9.7			
401B																
5/3/2000	XX	401BXX36649	0.1 U	1.1		195	30	25	142.6	83	92.9	2	29.8			
8/10/2000	XX	401BXX36748	0.1 U	1.1		352	2	27.5	109.5	92	99	1.3	30.1			
11/9/2000	XX	401BXX36839	0.1 U	1.1		198	1	27.8	77.8	99	101	1.1	26			
5/17/2001	XX	401BXX37028	0.1 U	1.6		203	12	30	117	98	99	1.1	23.1			
8/1/2001	XX	401BXX37104	0.1 U	1 U		213	3	31.8	128.2	102	102	3.7	25.1			
10/24/2001	XX	401BXX37188	0.1 U	1 U		215	29	29.8	119.6	98	104	1.4	26.1			
5/22/2002	XX	401BXX37398	0.15	1 U		213	6	32	85.4	100	104	1.3	25.5			
7/30/2002	XX	401BXX37467	0.1 U	1 U		218	1 U	34.5	92.9	97	108	1.4	25.4			
10/22/2002	XX	401BXX37551	0.1 U	1 U		191	1 U	30.4	87.9	109	112	1 U	25.3			
6/25/2003	XX	401BXX37797	0.2 U	2 U		170	1 U	33	160	110	110	1.3	25			
8/11/2003	XX	401BXX37844	0.2 U	2 U		170	1 U	30	150	107	110	1.1	19			
10/21/2003	XX	401BXX37915	0.2 U	2 U		200	1 U	29	160	108	110	1	20			
5/10/2004	XX	401BXX38117	0.2 U	2 U		150	1 U	35	160	98	110	1	21			
7/29/2004	XX	401BXX38197	0.2 U	2 U		170	1 U	32	140	100	110	1.2	20			
10/21/2004	XX	401BXX38281	0.2 U	2 U		270	1 U	32	160	110	120	1 U	20			
5/9/2005	XX	GW401B013	0.2 U	2 U		210	1.2	32	160	98	100	1.2	20			
7/28/2005	XX	GW401B02F	0.2 U	2 U		230	3.6	30	170	115	120	1 U	17			
11/8/2005	XX	GW401B047	0.2 U	2 U		200	1 U	34	150	120	130	1.1	20			
5/4/2006	XX	GW401B093	0.2 U	2 U		210	1 U	30	170	115	120	1.8	18			
8/2/2006	XX	GW401B07B	0.2 U	2 U		190	1 U	32	160	115	120	1 U	17			

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(401B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
10/30/2006	XX	GW401B05J	0.32	2 U		210	1 U	32	140	120	130	1 U	16				
5/7/2007	XX	GW401B0AF	0.5 U	0.5 U		210	1 U	32	170	140	150	1 U	14				
8/14/2007	XX	GW401B0C8	0.2 U	0.5 U		220	1 U	31	150	110	130	3.6	15				
11/5/2007	XX	GW401B0E0	0.2 U	0.5 U		230	1 U	33	210	130	140	1	17				
6/5/2008	XX	GW401B0G8	0.2 U	0.5 U		220	1 U	29	160	130	140	1.4	11				
8/20/2008	XX	GW401B0I8	0.2 U	0.5 U		230	1 U	31	160	120	140	1.4	12				
10/27/2008	XX	GW401B0JG	0.2 U	0.5 U		180	1 U	28	190	120	140	1.7	13				
5/13/2009	XX	GW401B11G	0.2 U	0.5 U		230	0.6 U	32	150	135	140	1.6	12				
8/13/2009	XX	GW401B13G	0.2 U	0.5 U		220	0.6 U	33	180	120	140	1.3	11				
10/28/2009	XX	GW401B154	0.2 U	0.5 U		190	1 U	30	150	145	150	2.1	11				
6/3/2010	XX	GW401B175	0.2 U	0.5 U		220	1 U	31	170	140	140	2.2	10				
8/17/2010	XX	GW401B196	0.2 U	0.5 U		220	1 U	28	160	150	150	2.4	10				
10/19/2010	XX	GW401B1AE	0.2 U	0.5 U		220	1.3 U	31	140	145	150	1.6	10				
5/16/2011	XX	GW401B1DF	0.2 U	0.5 U		230	5 U	29	160	150	150	3.1	9.8				
8/8/2011	XX	GW401B1F6	0.08 U	0.2 U		220	0.38 U	31	150	160	160	1.4	9.6				
11/1/2011	XX	GW401B1GH	0.082 U	0.2 U		220	0.32 U	27	160	170	170	1.6	6.9				
5/14/2012	XX	GW401B1IB	0.2 U	0.5 U		200	2.5 U	26	160	150	150	1 U	6.9				
8/14/2012	XX	GW401B204	0.2 U	0.25 U		150	2.8 U	26	140	160	160	1.43	6.3				
11/1/2012	XX	GW401B211	0.2 U	0.25 U		230	2.5 U	26	170	160	160	1	6.5				
5/21/2013	XX	GW401B23C	0.2 U	0.25 U		200	2.5 U	26	160	160	160	1	6.7				
7/22/2013	XX	GW401B256	0.2 U	0.25 U		230	2.5 U	25	160	150	150	1.1	6.3				
9/30/2013	XX	GW401B270	0.2 U	0.25 U		220	2.5 U	26	170	170	170	0.99	6.4				
6/4/2014	XX	GW401B28E	0.1 U	0.05 U		240	4 U	24	176	160	160	1 U	7				
8/19/2014	XX	GW401B2A8	0.1 U	0.05 U		240	5.6	24	175	180	180	1 U	9				
11/11/2014	XX	GW401B2C2	0.1 U	0.05 U		220	4 U	24	157	180	180	1 U	8.1				
6/2/2015	XX	GW401B2DI	0.1 U	0.05 U		230	4 U	20	165	160	160	1 U	6.8				
9/1/2015	XX	GW401B2FD	0.1 U	0.05 U		220	4 U	20	189	180	180	1 U	6.6				
11/3/2015	XX	GW401B2H7	0.1 U	0.05 U		230	4 U	21	186	180	180	1 U	7.2				
6/14/2016	XX	GW401B30H	0.1 U	0.05 U		230	4 U	21	191	180	180	1 U	6.7				
9/20/2016	XX	GW401B32B	0.1 U	0.05 U		270	4 U	20	191	190	190	1 U	5.8				
11/9/2016	XX	GW401B345	0.1 U	0.05 U		230	4 U	20	185	200	200	1.1	7.8				
6/14/2017	XX	GW401B360	0.1 U	0.05 U		200	4 U	20	197	190	190	1.2	6				
8/29/2017	XX	GW401B37E	0.1 U	0.05 U		240	4 U	17	183	200	200	1 U	4.6				
11/14/2017	XX	GW401B398	0.1 U	0.05 U		230	4 U	17	180	200	200	1 U	4.8				
6/20/2018	XX	GW401B3B3	0.1 U	0.05 U		270	4 U	17	210	200	200	1 U	5.2				
8/15/2018	XX	GW401B3DC	0.1 U	0.05 U		240	4 U	17	200	240	300	1 U	4.6				
11/30/2018	XX	GW401B3EB	0.1 U	0.05 U		220	4 U	15	198	200	200	1 U	4.1				
6/5/2019	XX	GW401B3G6	0.1 U	0.05 U		250	4 U	14	194	210	210	1 U	3.6				
8/14/2019	XX	GW401B3IF	0.1 U	0.05 U		260	4 U	15	194	210	210	1 U	5.7				
10/22/2019	XX	GW401B3JE	0.1 U	0.05 U		260	4 U	14	205	200	200	1 U	4.3				
6/17/2020	XX	GW401B419	0.1 U	0.05 U		220	4 U	12	202	240	240	1 U	2.6				
8/4/2020	XX	GW401B43I	0.1 U	0.05 U		200	4 U	11		210	210	1 U	3.6				
8/4/2020	XX	GW401B43IR							210								
10/21/2020	XX	GW401B44H	0.1 U	0.05 U		240	4.4	11	217	210	210	1 U	2.2				
6/23/2021	XX	GW401B46C	0.1 U	0.05 U		240	4 U	12	204	220	220	1 U	3.4				
9/21/2021	XX	GW401B487	0.1 U	0.05 U		220	4 U	11	197	220	220	1 U	3.2				
402A																	
5/3/2000	XX	402AXX36649	0.178	1 U		128	2	9.3	86.9	78	88.9	1 U	4.4				
8/10/2000	XX	402AXX36748	0.119	1 U		81	1 U	10.8	67.2	85	92.9	1 U	4.5				

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(402A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
11/9/2000	XX	402AXX36839	0.1 U	1 U		131	1 U	8.4	57.4	90	94.9	1 U	5.3			
5/17/2001	XX	402AXX37028	0.1 U	1 U		125	2	9.2	58.7	91	92	1 U	7.2			
8/1/2001	XX	402AXX37104	0.1 U	1 U		180	1	9.7	63.4	90	90	3.2	7.2			
10/24/2001	XX	402AXX37188	0.1 U	1 U		137	4	8.6	62.3	82	90	1.6	8.3			
5/22/2002	XX	402AXX37398	0.18	1 U		141	1 U	9	63.9	83	86	1 U	6.7			
7/30/2002	XX	402AXX37467	0.1 U	1 U		142	1 U	9.4	68.9	85	90	1 U	8.1			
10/22/2002	XX	402AXX37551	0.1 U	1 U		121	1 U	9.3	61.8	76	82	1 U	8.3			
6/25/2003	XX	402AXX37797	0.2 U	2 U		100	1 U	10	110	89	91	1 U	10			
8/11/2003	XX	402AXX37844	0.2 U	2 U		86	1 U	8.6	100	86	90	1 U	8.6			
10/22/2003	XX	402AXX37916	0.2 U	2 U		120	1 U	9.5	99	88	90	1 U	9.8			
5/11/2004	XX	402AXX38118	0.2 U	2 U		87	1 U	10	120	90	91	1 U	12			
7/29/2004	XX	402AXX38197	0.2 U	2 U		100	1 U	9.4	100	79	82	1 U	12			
10/26/2004	XX	402AXX38286	0.2 U	2 U		120	1 U	10	110	85	90	1 U	14			
5/9/2005	XX	GW402A014	0.2 U	2 U		150	1 U	8.5	110	79	81	1 U	14			
8/1/2005	XX	GW402A02G	0.2 U	2 U		190	1 U	8.8	120	88	91	1 U	12			
11/9/2005	XX	GW402A048	0.47	2 U		110	1 U	8.3	120	94	96	1.2	15			
5/4/2006	XX	GW402A094	0.2 U	2 U		130	1 U	8	120	90	93	1 U	16			
8/2/2006	XX	GW402A07C	0.2 U	2 U		120	1 U	8.4	110	89	90	1.2	15			
10/30/2006	XX	GW402A060	0.2	2 U		120	1 U	8.7	120	88	89	1 U	16			
5/7/2007	XX	GW402A0AG	0.5 U	0.5 U		140	1 U	7.8	120	95	100	1 U	16			
8/14/2007	XX	GW402A0C9	0.2 U	0.5 U		160	1 U	8.5	99	89	90	2.8	19			
11/5/2007	XX	GW402A0E1	0.2 U	0.5 U		160	1 U	8.6	150	93	94	1 U	21			
6/5/2008	XX	GW402A0G9	0.2 U	0.5 U		150	1 U	7.7	120	94	94	1 U	16			
8/20/2008	XX	GW402A0I9	0.2 U	0.5 U		170	1 U	8.2	120	93	95	1.3	18			
10/27/2008	XX	GW402A0JH	0.2 U	0.5 U		130	1 U	7.1	130	94	95	1.3	22			
5/13/2009	XX	GW402A11H	0.2 U	0.5 U		160	0.6 U	8.3	110	94	95	1.2	22			
5/13/2009	XD	LTDP4X10D	0.2 U	0.5 U		130	0.6 U	8.3	110		94	1 U	22			
8/13/2009	XX	GW402A13H	0.2 U	0.5 U		170	0.6 U	8.8	130	94	95	1 U	21			
10/28/2009	XX	GW402A155	0.2 U	0.5 U		130	1 U	7.1	100	93	96	1.6	24			
6/3/2010	XX	GW402A176	0.2 U	0.5 U		160	1.1 U	7.2	120	85	94	1.5	21			
8/17/2010	XX	GW402A197	0.2 U	0.5 U		180	1 U	6.4	110	96	97	1.8	27			
10/19/2010	XX	GW402A1AF	0.2 U	0.5 U		170	1.4 U	8.3	110	94	96	1.7	29			
5/16/2011	XX	GW402A1DG	0.2 U	0.5 U		170	5 U	8.3	120	98	98	1.6	32			
8/8/2011	XX	GW402A1F7	0.08 U	0.2 U		190	0.38 U	12	110	93	93	1.4	34			
11/1/2011	XX	GW402A1GI	0.082 U	0.2 U		170	0.32 U	8	120	100	100	1.8	27			
5/16/2012	XX	GW402A1IC	0.2 U	0.5 U		180	2.5 U	7.1	120	91	91	1.65	33			
8/15/2012	XX	GW402A205	0.2 U	0.25 U		180	2.5 U	7.1	120	96	96	1.87	32			
10/31/2012	XX	GW402A21J	0.2 U	0.25 U		170	3.3	6.6	140	85	85	1.4	29			
5/20/2013	XX	GW402A23D	0.2 U	0.25 U		180	2.5 U	7.8	110	94	94	1.2	26			
7/22/2013	XX	GW402A257	0.2 U	0.25 U		190	2.5 U	7.1	130	94	94	1.5	31			
9/30/2013	XX	GW402A271	0.2 U	0.25 U		190	2.5 U	7.2	130	100	100	1.5	31			
6/4/2014	XX	GW402A28F	0.1 U	0.05 U		210	4 U	7.7	157	100	100	1.1	34			
8/19/2014	XX	GW402A2A9	0.1 U	0.05 U		220	4 U	7.6	149	110	110	1.3	34			
11/11/2014	XX	GW402A2C3	0.1 U	0.05 U		170	4 U	8	130	110	110	1.1	32			
6/4/2015	XX	GW402A2DJ	0.1 U	0.05 U		190	4 U	6.9	144	100	100	1.3	35			
9/1/2015	XX	GW402A2FE	0.1 U	0.05 U		200	4 U	6.8	154	110	110	1.5	34			
11/3/2015	XX	GW402A2H8	0.1 U	0.05 U		170	4 U	7.8	150	110	110	1.3	33			
6/14/2016	XX	GW402A30I	0.1 U	0.05 U		220	4 U	7.8	162	110	110	1.3	38			
9/20/2016	XX	GW402A32C	0.1 U	0.05 U		220	4 U	8	171	120	120	1.5	39			
11/9/2016	XX	GW402A346	0.1 U	0.05 U		190	4 U	7.9	180	130	130	1.8	40			

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(402A)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
6/14/2017	XX	GW402A361	0.1 U	0.05 U		180	4 U	13	166	110	110	1.7	36			
8/29/2017	XX	GW402A37F	0.1 U	0.05 U		200	4 U	6.8	172	120	120	1.3	38			
11/15/2017	XX	GW402A399	0.1 U	0.05 U		180	4 U	6.4	168	120	120	1.3	33			
6/20/2018	XX	GW402A3B4	0.1 U	0.05 U		220	4 U	7.4	182	120	120	1.3	39			
8/15/2018	XX	GW402A3DD	0.1 U	0.05 U		650	4 U	4.5	172	650	650	1.4	15			
11/28/2018	XX	GW402A3EC	0.1 U	0.05 U		170	4 U	6.7	170	120	120	1.4	32			
6/5/2019	XX	GW402A3G7	0.1 U	0.05 U		250	4 U	6.5	184	130	130	1.5	36			
8/13/2019	XX	GW402A3IG	0.1 U	0.05 U		240	4 U	6.6	180	140	140	1.6	40			
10/22/2019	XX	GW402A3JF	0.1 U	0.44		240	4 U	7.4	177	130	130	1.9	34			
6/17/2020	XX	GW402A41A	0.1 U	0.05 U		200	4 U	6.5	177	140	140	1.7	35			
8/4/2020	XX	GW402A43J	0.1 U	0.05 U		180	4 U	6.6		140	140	1.8	34			
8/4/2020	XX	GW402A43JR							206							
10/21/2020	XX	GW402A44I	0.1 U	0.85		250	4 U	6.6	203	140	140	1.7	36			
6/23/2021	XX	GW402A46D	0.1 U	0.05 U		230	4 U	7.2	211	160	160	2.3	39			
9/21/2021	XX	GW402A488	0.1 U	0.05 U		220	4 U	6.4	203	170	170	1.9	37			
402B																
5/3/2000	XX	402BXX36649	0.1 U	2.9		796	91	8.5	689.4	610	680.7	16.5	58			
8/10/2000	XX	402BXX36748	0.1 U	3.8		1299	4	7.8	1084.4	1000	1131.2	23.1	122			
11/9/2000	XX	402BXX36839	0.221	3		1205	5	7.6	926.4	1000	1071.6	21.4	98.7			
5/17/2001	XX	402BXX37028	0.1 U	2.5		1308	1	7.9	1038.7	1050	1148	21.9	79.4			
8/1/2001	XX	402BXX37104	0.1 U	1.1		1305	3	7.2	1137.5	1100	1130	22.2	75.8			
10/24/2001	XX	402BXX37188	0.115	1 U		1258	5	30.9	1082.1	1029	1045	18.7	82.8			
5/22/2002	XX	402BXX37398	0.1 U	1.45		1089	3	10.1	958.6	880	974	15.3	65.3			
8/7/2002	XX	402BXX37475	0.1 U	1.1		1079	2	10.9	866.8	864	934	16.5	63.8			
10/24/2002	XX	402BXX37553	0.1 U	1 U		1068	3	17.2	937.6	1000	1040	211.2	70.8			
6/25/2003	XX	402BXX37797	0.2 U	2 U		830	1 U	13	920	720	780	16	50			
8/11/2003	XX	402BXX37844	0.37	2 U		880	1 U	7.6	840	890	940	13	51			
10/22/2003	XX	402BXX37916	0.25	2 U		890	1 U	7.1	900	760	810	14	40			
5/11/2004	XX	402BXX38118	0.2 U	2 U		730	1 U	10	680	680	710	14	39			
8/2/2004	XX	402BXX38201	0.28	2 U		770	1 U	9.4	710	690	740	13	42			
10/26/2004	XX	402BXX38286	0.2 U	2 U		810	1 U	7.8	820	700	730	10	39			
5/9/2005	XX	GW402B015	0.2 U	2 U		700	1 U	8.4	640	460	480	8.6	34			
8/1/2005	XX	GW402B02H	0.2 U	2 U		940	1 U	8.2	870	760	810	9.3	44			
11/9/2005	XX	GW402B049	0.2 U	2 U		670	1 U	7.4	950	700	750	8.7	41			
5/5/2006	XX	GW402B095	0.2 U	2 U		640	2.5	7.1	760	600	640	8.7	30			
8/2/2006	XX	GW402B07D	0.2 U	2 U		800	1 U	7.3	820	740	790	9.8	39			
10/30/2006	XX	GW402B061	0.34	2 U		630	1 U	6	610	600	630	7.6	27			
5/7/2007	XX	GW402B0AH	0.5 U	0.5 U		680	1 U	6.5	650	690	730	6	24			
8/14/2007	XX	GW402B0CA	0.2 U	0.5 U		780	1 U	7.7	720	720	750	37	33			
11/5/2007	XX	GW402B0E2	4.6	0.5 U		660	1 U	7.8	710	610	670	11	26			
6/11/2008	XX	GW402B0GA	0.2 U	0.5 U		770	1 U	7.3	740	710	770	13	25			
8/20/2008	XX	GW402B0IA	0.2 U	0.5 U		800	1 U	8.6	710	710	770	10	25			
8/20/2008	XD	GWDP4X0H5	0.2 U	0.5 U		790	1 U	8.7	700		770	11	25			
10/27/2008	XX	GW402B0JI	0.2 U	0.5 U		720	1 U	7	800	680	740	13	26			
5/13/2009	XX	GW402B11I	0.2 U	0.5 U		750	0.6 U	8	730	690	720	13	26			
8/13/2009	XX	GW402B13I	0.2 U	0.5 U		400	0.6 U	8.3	910	680	720	9.5	25			
8/13/2009	XD	GWDP4X12D	0.2 U	0.5 U		760	0.6 U	8.3	860		720	9.6	26			
10/28/2009	XX	GW402B156	0.2 U	0.5 U		490	1 U	7	540	670	700	15	26			
6/3/2010	XX	GW402B177	0.2 U	0.5 U		690	1.1 U	7.3	790	620	680	13	27			

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(402B)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
8/17/2010	XX	GW402B198	0.2 U	0.5 U		720	1 U	7	630	670	700	13	28			
8/17/2010	XD	GWDP4X183	0.2 U	0.5 U		720	2.2 U	7.3	590		700	12	28			
10/19/2010	XX	GW402B1AG	0.2 U	0.5 U		700	2.5 U	8.1	570	650	690	10	30			
5/16/2011	XX	GW402B1DH	0.2 U	0.5 U		580	5 U	6.6	550	540	540	12	23			
8/8/2011	XX	GW402B1F8	0.08 U	0.2 U		170	0.38 U	14	590	140	140	11	4.6			
11/1/2011	XX	GW402B1GJ	0.082 U	0.2 U		670	0.32 U	7.4	630	710	710	11	26			
5/16/2012	XX	GW402B1ID	0.2 U	0.5 U		600	2.5 U	6.8	540	580	580	5.64	22			
8/15/2012	XX	GW402B206	0.2 U	0.25 U		690	2.5 U	6.9	460	640	640	7.05	26			
10/31/2012	XX	GW402B220	0.2 U	0.25 U		590	2.5 U	6.4	610	590	590	6	22			
5/20/2013	XX	GW402B23E	0.2 U	0.25 U		650	2.5 U	7.2	510	630	630	5.9	23			
7/22/2013	XX	GW402B258	0.2 U	0.25 U		700	2.5 U	7.1	560	620	620	5.9	23			
9/30/2013	XX	GW402B272	0.2 U	0.25 U		640	2.5 U	6.8	590	670	670	6.1	23			
6/4/2014	XX	GW402B28G	0.1 U	0.05 U		700	4.4	7	626	630	630	4.4	21			
8/19/2014	XX	GW402B2AA	0.1 U	0.05 U		710	4 U	6.9	614	670	670	5	20			
11/11/2014	XX	GW402B2C4	0.1 U	0.05 U		640	4 U	6.8	576	630	630	4.8	20			
6/4/2015	XX	GW402B2E0	0.1 U	0.05 U		660	4 U	6.2	578	590	590	4.7	17			
9/1/2015	XX	GW402B2FF	0.15	0.39		710	4 U	5.9	688	640	640	5.4	18			
11/3/2015	XX	GW402B2H9	0.13	0.05 U		620	4 U	1.5	581	600	600	5.1	17			
6/14/2016	XX	GW402B30J	0.1 U	0.05 U		690	4 U	6.1	625	600	600	4.3	20			
9/20/2016	XX	GW402B32D	0.11	0.05 U		670	4 U	5.7	630	620	620	4.9	17			
11/9/2016	XX	GW402B347	0.11	0.05 U		660	4 U	5.7	638	660	660	5.5	18			
6/14/2017	XX	GW402B362	0.1 U	0.05 U		640	4 U	8.5	646	620	620	4.9	14			
8/29/2017	XX	GW402B37G	0.1 U	0.05 U		640	4 U	3.8	582	620	620	4.5	14			
11/15/2017	XX	GW402B39A	0.1	0.05 U		630	4 U	3.9	596	650	650	4.6	13			
6/20/2018	XX	GW402B385	0.1 U	0.05 U		650	4 U	4.9	620	640	640	4.3	18			
8/15/2018	XX	GW402B3DE	0.1 U	0.54		650	4 U	4.5	586	140	140	4.5	14			
11/28/2018	XX	GW402B3ED	0.1	0.05 U		640	10	7.3	590	620	620	4.5	13			
6/5/2019	XX	GW402B3G8	0.1 U	0.05 U		650	4 U	4.9	588	600	600	4.3	11			
8/13/2019	XX	GW402B3IH	0.1 U	0.05 U		600	4 U	5.6	572	610	620	4.9	14			
10/22/2019	XX	GW402B3JG	0.1 U	0.05 U		660	4 U	6.4	588	590	590	5	12			
6/17/2020	XX	GW402B41B	0.1 U	0.05 U		590	4 U	5.7	546	630	630	4.5	10			
8/4/2020	XX	GW402B440	0.1 U	0.05 U		540	4 U	6.4		580	580	4.5	11			
8/4/2020	XX	GW402B440R							607							
10/21/2020	XX	GW402B44J	0.11	0.05 U		590	4 U	6.2	606	580	580	4.7	9.8			
6/23/2021	XX	GW402B46E	0.1 U	0.05 U		590	4 U	7.3	563	600	600	4.9	11			
9/21/2021	XX	GW402B489	0.16	0.05 U		570	6	6.5	554	600	600	4.6	11			
LDS																
6/10/2008	XX	LDSXX39597	0.21	0.5 U	0.045	550	8.6	22	480	430	460	19	28			
8/19/2008	XX	LDSXX39687	0.2 U	0.5 U	0.053	600	8.8	22	510	470	500	20	25			
10/22/2008	XX	LDSXX39736	0.2 U	0.5 U	0.06	640	9.9	13	640	520	550	11	25			
5/7/2009	XX	LDSXX39940	2.7	0.5 U		880	37	1 U	870	790	820	30	49			
8/12/2009	XX	LDSXX40037	2.8	0.5 U	0.05 U	800	72	1 U	680	725	770	19	40			
10/27/2009	XX	LDSXX40113	2.2	0.5 U	0.02 U	820	24	9.5	650	740	770	49	41			
6/7/2010	XX	GWXXX1B8	5.9	0.5 U	0.02 U	970	42	1 U	790	840	880	25	47			
8/18/2010	XX	GWXXX1B9	7.1	0.5 U	0.02 U	1000	34	1 U	660	880	950	42	54			
10/21/2010	XX	GWXXX1BA	4.5	0.5 U	0.24	860	32	1 U	590	785	810	29	49			
5/18/2011	XX	LTXXXX1EF	1.4	0.5 U	0.045	560	20	18	440	510	510	18	38			
8/10/2011	XX	LTXXXX1G6	1.5	0.2 U	0.079	580	17	19	360	520	520	11	40			
11/2/2011	XX	LTXXXX1HH	1.6	0.2 U	0.044	620	13	19	430	500	500	12	35			

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(LDS)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5/14/2012	XX	LTXXXX1JB	5.1	0.5 U	0.02 U	850	18	30	730	676	676	21	41
8/14/2012	XX	LTXXXX214	7.1	0.25 U	0.086	370	46	3.7	180	320	320	41.3	4
10/30/2012	XX	LTXXXX22I	5.4	0.25 U	0.043	790	14	27	650	710	710	20	42
5/21/2013	XX	LTXXXX24C	5	0.25 U	0.041	830	15	24	600	740	740	18	40
7/25/2013	XX	LTXXXX266	4.9	0.25 U	0.042	840	14	21	580	690	690	19	38
10/1/2013	XX	LTXXXX280	4.9	0.25 U	0.02 U	800	15	13	620	710	710	17	38
6/5/2014	XX	LTXXXX29E	7.9	0.05 U	0.1 U	1000	14	1 U	738	830	830	23	49
8/21/2014	XX	LTXXXX2B8	1.4	0.05 U	0.1 U	550	4.4	16	406	440	440	7.2	37
11/13/2014	XX	LTXXXX2D2	0.66	0.19	0.1 U	560	4 U	29	428	480	480	8.4	38
6/4/2015	XX	LTXXXX2EI	1.2	0.05 U	0.1 U	590	10	20	419	440	440	6.5	37
9/3/2015	XX	LTXXXX2GD	1	0.05 U	0.1 U	570	9.6	16	436	460	460	6.8	32
11/5/2015	XX	LTXXXX2I7	1.1	0.05 U	0.1 U	580	8.8	16	452	470	470	6.2	37
6/16/2016	XX	LTXXXX31H	1.6	0.05 U	0.1 U	630	6.4	26	496	500	500	7.6	34
9/22/2016	XX	LTXXXX33B	1.5	0.05 U	0.1 U	620	9.6	1 U	473	480	480	7.6	34
11/10/2016	XX	LTXXXX355	1.3	0.05 U	0.1 U	590	10	1 U	444	540	540	8	36
6/15/2017	XX	LTXXXX370	3.9	0.05 U	0.1 U	780	6.8	36	658	640	640	16	38
8/31/2017	XX	LTXXXX38E	2.4	0.05 U	0.1 U	720	7.6	22	547	590	590	11	38
11/16/2017	XX	LTXXXX3A8	2.6	0.05 U	0.1 U	680	8	51	503	560	560	12	35
6/21/2018	XX	LTXXXX3C3	3.2	0.05 U	0.1 U	760	5.6	30	578	620	620	13	35
8/16/2018	XX	LTXXXX3CI	2.8	0.05 U	0.1 U	750	8.8	24	555	630	630	12	38
11/29/2018	XX	LTXXXX3FB	6.2	0.05 U	0.1 U	820	4 U	29	712	720	720	24	42
6/6/2019	XX	LTXXXX3H6	6.6	0.05 U	0.1 U	900	4.8	26	755	810	810	21	39
8/15/2019	XX	LTXXXX3I1	6	0.05 U	0.1 U	880	8	23	651	760	760	19	40
10/24/2019	XX	LTXXXX40E	2.3	0.05 U	0.1 U	620	23	16	533	550	550	12	31
6/18/2020	XX	LTXXXX429	2.4	0.05 U	0.1 U	860	13	12	531	630	630	11	150
8/6/2020	XX	LTXXXX434	2.6	0.05 U	0.1 U	790	17	5.8	573	580	580	11	120
10/22/2020	XX	LTXXXX45H	2.4	0.05 U	0.1 U	780	10	10 U	559	580	580	10	110
6/24/2021	XX	LTXXXX47C	1.5	0.5 U	0.34	580	4 U	110	382	420	420	85	54
9/23/2021	XX	LTXXXX497	0.46	0.05 U	0.1 U	570	11	16	508	520	520	7.2	34

LPD2

5/19/2005	XX	LTLPD2003	0.79	2 U	0.1 U	160	4	4.5	120	115	120	6.9	2 U	
8/2/2005	XX	LTLPD201F	3.3	2 U		410	16	6.9	410	345	370	17	4.5	
10/26/2005	XX	LTLPD2037	2.9	2 U	0.12	160	12	18	130	110	120	11	2 U	
5/10/2006	XX	LTLPD2083	0.2 U	2 U	0.02 U	95	3	3.5	120	97	99	8.1	2	
7/24/2006	XX	LTLPD206B	0.21	2 U	0.024	100	7	1.9	110	100	100	9.2	2 U	
10/10/2006	XX	LTLPD204J	4.9	2 U	0.02 U	320	22	12	340	290	310	24	5.2	
5/21/2007	XX	LTLPD209F	0.65	2 U	0.02 U	94	1 U	1.8	100	100	110	4.2	1	
8/6/2007	XX	LTLPD208B	1.5	0.5 U	0.17	370	30	6.9	360	300	330	40	6.1	
10/24/2007	XX	LTLPD20D0	0.43	0.5 U	0.074	170	5.7	24	100	62	63	9.7	2 U	
5/28/2008	XX	LTLPD20F8	1.7	0.5 U	0.02 U	140	1 U	3.4	140	145	150	8	2 U	
8/11/2008	XX	LTLPD20H8	0.2 U	0.5 U	0.03	130	1.3	1.5	120	110	130	8.2	2 U	
10/15/2008	XX	LTLPD20IG	2.4	0.67	0.04	140	3.7	17	130	100	110	10	2 U	
5/6/2009	XX	LTLPD210G	0.2 U	0.5 U		120	0.6 U	1.3	90	98	100	5.8	1.1	
5/6/2009	XD	GWDP2X10B	0.2 U	0.5 U		150	0.6 U	1.2	90		100	4.8	2 U	
8/4/2009	XX	LTLPD212G	0.2 U	0.5 U	0.03	120	2 U	1 U	86	89	91	6.4	2 U	
10/19/2009	XX	LTLPD2144	0.71	0.5 U	0.04	140	5.2	15	86	71	72	9.9	2 U	
10/19/2009	XD	GWDP2X15F	0.71	2.2		120	1.3	15	90		100	10	2 U	
5/25/2010	XX	LTLPD2165	2.8	0.5 U	0.02 U	190	2.7	3.6	180	165	170	11	2 U	
8/2/2010	XX	LTLPD2186	1.9	0.5 UH	0.029	280	25	1 U	110		240	260	28	3.3

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(LPD2)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/12/2010	XX	LTLPD219E	0.62	1.5	0.062	150	4.8	30	97	73	74	9.6	2 U				
10/12/2010	XD	GWDP2X1B5	0.55	1.6	0.035	160	4.7	31	51		74	9.8	2 U				
5/18/2011	XX	LTXXXX1EE	0.2 U	0.5 U	0.02 U	26	5 U	2.9	44	44	44	4	2 U				
8/10/2011	XX	LTXXXX1G5	4.3	0.2 U	0.12	330	13	5	240	300	300	39	6.2				
11/2/2011	XX	LTXXXX1HG	6.3	0.2 U	0.039	200	17	15	170	210	210	13	1.2 U				
5/14/2012	XX	LTXXXX1JA	0.2 U	0.5 U	0.02 U	70	2.5 U	2.6	66	63	63	7	2 U				
8/14/2012	XX	LTXXXX213	4.6	0.25 U	0.03	810	14	21	550	710	710	23.1	41				
10/30/2012	XX	LTXXXX22H	3.4	0.58	0.041	200	13	35	140	120	120	9.5	1				
5/21/2013	XX	LTXXXX24B	0.2 U	0.25 U	0.025	28	3.1	2.4	48	53	53	6.2	0.58				
7/25/2013	XX	LTXXXX265	0.86	0.25 U	2.4	130	11	13	70	91	91	8.2	0.7				
10/1/2013	XX	LTXXXX27J	2.1	0.4	0.031	140	6.9	14	88	120	120	9.4	0.58				
6/5/2014	XX	LTXXXX29D	0.16	0.05 U	0.1 U	98	8	1 U	67.2	82	82	5.6	2 U				
8/21/2014	XX	LTXXXX2B7	3.4	0.05 U	0.14	310	25	1 U	218	250	250	23	7.2				
11/13/2014	XX	LTXXXX2D1	2.7	0.81	0.1 U	190	29	33	125	110	110	7.4	2.6				
6/4/2015	XX	LTXXXX2EH	0.1 U	0.05 U	0.1 U	68	4 U	3.4	56.3	56	56	4.4	2.7				
9/3/2015	XX	LTXXXX2GC	1.6	1.6	0.1 U	180	4 U	24	110	91	91	15	2.7				
11/5/2015	XX	LTXXXX2I6	4.3	0.49	0.1 U	200	34	16	151	150	150	8.8	3.1				
6/16/2016	XX	LTXXXX31G	4.6	0.31	0.1 U	290	4 U	1 U	268	260	260	11	7.1				
9/22/2016	XX	LTXXXX33A	D	D	D	D	D	D	D	D	D	D	D				
11/10/2016	XX	LTXXXX354	D	D	D	D	D	D	D	D	D	D	D				
6/15/2017	XX	LTXXXX36J	0.54	2.4	0.1 U	94	4 U	4.9	82.7	79	79	7.4	2.2				
8/31/2017	XX	LTXXXX38D	6.2	0.19	0.1 U	310	8.4	15	235	250	250	27	6.8				
11/16/2017	XX	LTXXXX3A7	2.1	1	0.1 U	190	10	43	135	78	78	7.1	2.9				
6/21/2018	XX	LTXXXX3C2	2.6	0.076	0.1 U	200	6	1.9	168	160	160	12	2.1				
8/16/2018	XX	LTXXXX3CH	0.8	5.3	0.1 U	230	4 U	22	108	92	92	11	2.1				
11/29/2018	XX	LTXXXX3FA	2.7	0.39	0.1 U	180	19	38	136	94	94	8.2	3.9				
6/6/2019	XX	LTXXXX3H5	0.1 U	0.05 U	0.1 U	76	4 U	2.9	50.5	45	45	5.2	2 U				
8/15/2019	XX	LTXXXX3I0	4.5	0.05 U	0.1 U	250	7.2	11	213	220	220	15	4.4				
10/24/2019	XX	LTXXXX40D	1	2.7	0.1 U	130	8	23	89.7	58	58	12	3.6				
6/18/2020	XX	LTXXXX428	3.6	0.05 U	0.1 U	200	4 U	6.3	192	220	220	10	2.2				
8/6/2020	XX	LTXXXX433	3.7	0.05 U	0.18	370	12	1 U	297	280	280	43	14				
10/22/2020	XX	LTXXXX45G	0.18	6.2	0.1 U	150	4 U	40	90.2	21	21	9.8	2 U				
6/24/2021	XX	LTXXXX47B	3.6	0.1	0.1 U	260	6.4	14	244	240	240	14	2.8				
9/23/2021	XX	LTXXXX496	0.1 U	4	0.19	92	4 U	21	74.7	45	45	9.9	2 U				
ND																	
5/3/2000	XX	NDXX36649	D		D			D	D			D	D				
8/9/2000	XX	NDXX36747	D		D			D	D			D	D				
11/8/2000	XX	NDXX36838	D		D			D	D			D	D				
5/16/2001	XX	NDXX37027	D	D			D	D	D	D	D	D	D				
7/31/2001	XX	NDXX37103	D	D			D	D	D	D	D	D	D				
10/23/2001	XX	NDXX37187	D	D	D			D	D	D	D	D	D				
5/21/2002	XX	NDXX37397	D	D	D	D		D	D	D	D	D	D				
7/30/2002	XX	NDXX37467	D	D	D	D		D	D	D	D	D	D				
10/22/2002	XX	NDXX37551	D	D	D	D		D	D	D	D	D	D				
6/23/2003	XX	NDXX37795	D	D	D	D		D	D	D	D	D	D				
8/13/2003	XX	NDXX37846	D	D	D	D		D	D	D	D	D	D				
10/20/2003	XX	NDXX37914	D	D	D	D		D	D	D	D	D	D				
5/6/2004	XX	NDXX38113	D	D	D	D		D	D	D	D	D	D				
7/27/2004	XX	NDXX38195	D	D	D	D		D	D	D	D	D	D				

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(ND)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride			
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
10/25/2004	XX	NDXX38285	D	D	D	D	D	D	D	D	D	D	D			
5/12/2005	XX	SWNDXX016	D	D		D	D	D	D	D	D	D	D			
7/25/2005	XX	SWNDXX021	D	D		D	D	D	D	D	D	D	D			
11/10/2005	XX	SWNDXX04A	0.2 U	2 U	0.1 U	96	20	10	77	61	63	8.6	2 U			
5/2/2006	XX	SWNDXX096	0.21	2 U	0.16	73	160	9.2	79	53	56	16	2 U			
8/3/2006	XX	SWNDXX07E	D	D	D	D	D	D	D	D	D	D	D			
10/18/2006	XX	SWNDXX062	D	D	D	D	D	D	D	D	D	D	D			
5/21/2007	XX	SWNDXX0AI	D	D		D	D	D	D	D	D	D	D			
8/8/2007	XX	SWNDXX0CB	D	D		D	D	D	D	D	D	D	D			
11/6/2007	XX	SWNDXX0E3	D	D		D	D	D	D	D	D	D	D			
6/11/2008	XX	SWNDXX0GB	0.2 U	0.5 U	0.12	200	5.5	21	150	105	110	21	2 U			
8/19/2008	XX	SWNDXX0IB	D	D	D	D	D	D	D	D	D	D	D			
10/22/2008	XX	SWNDXX0JJ	D	D		D	D	D	D	D	D	D	D			
5/18/2009	XX	SWNDXX11J	D	D		D	D	D	D	D	D	D	D			
8/17/2009	XX	SWNDXX13J	D	D	D	D	D	D	D	D	D	D	D			
10/29/2009	XX	SWNDXX15J	D	D	D	D	D	D	D	D	D	D	D			
6/7/2010	XX	SWNDXX178	0.2 U	0.5 U	0.031	160	1.5	5.1	160	120	120	16	2 U			
8/18/2010	XX	SWNDXX199	D	D		D	D	D	D	D	D	D	D			
10/21/2010	XX	SWNDXX1AH	D	D		D	D	D	D	D	D	D	D			
5/18/2011	XX	SWXXX1E9	0.2 U	0.5 U	0.02 U	86	5 U	4.2	86	89	89	5	2 U			
8/10/2011	XX	SWXXX1G0	D	D	D	D	D	D	D	D	D	D	D			
11/2/2011	XX	SWXXX1HB	D	D	D	D	D	D	D	D	D	D	D			
5/14/2012	XX	SWXXX1J5	D	D	D	D	D	D	D	D	D	D	D			
8/14/2012	XX	SWXXX20I	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6			
10/29/2012	XX	SWXXX22C	D	D	D	D	D	D	D	D	D	D	D			
5/21/2013	XX	SWXXX246	D	D	D	D	D	D	D	D	D	D	D			
7/24/2013	XX	SWXXX260	D	D	D	D	D	D	D	D	D	D	D			
10/1/2013	XX	SWXXX27E	D	D	D	D	D	D	D	D	D	D	D			
6/5/2014	XX	SWXXX298	D	D	D	D	D	D	D	D	D	D	D			
8/21/2014	XX	SWXXX2B2	D	D	D	D	D	D	D	D	D	D	D			
11/13/2014	XX	SWXXX2CG	D	D	D	D	D	D	D	D	D	D	D			
6/4/2015	XX	SWXXX2EC	D	D	D	D	D	D	D	D	D	D	D			
9/3/2015	XX	SWXXX2G7	D	D	D	D	D	D	D	D	D	D	D			
11/5/2015	XX	SWXXX2I1	I	I	I	I	I	I	I	I	I	I	I			
6/16/2016	XX	SWXXX31B	D	D	D	D	D	D	D	D	D	D	D			
9/22/2016	XX	SWXXX335	D	D	D	D	D	D	D	D	D	D	D			
11/10/2016	XX	SWXXX34J	D	D	D	D	D	D	D	D	D	D	D			
6/15/2017	XX	SWXXX36E	D	D	D	D	D	D	D	D	D	D	D			
8/31/2017	XX	SWXXX388	D	D	D	D	D	D	D	D	D	D	D			
11/16/2017	XX	SWXXX3A2	D	D	D	D	D	D	D	D	D	D	D			
6/21/2018	XX	SWXXX3BH	D	D	D	D	D	D	D	D	D	D	D			
8/16/2018	XX	SWXXX3CC	D	D	D	D	D	D	D	D	D	D	D			
6/6/2019	XX	SWXXX3H0	D	D	D	D	D	D	D	D	D	D	D			
8/15/2019	XX	SWXXX3HF	D	D	D	D	D	D	D	D	D	D	D			
10/24/2019	XX	SWXXX408	I	I	I	I	I	I	I	I	I	I	I			
6/18/2020	XX	SWXXX423	D	D	D	D	D	D	D	D	D	D	D			
8/6/2020	XX	SWXXX42I	D	D	D	D	D	D	D	D	D	D	D			
10/22/2020	XX	SWXXX45B	D	D	D	D	D	D	D	D	D	D	D			
6/24/2021	XX	SWXXX476	D	D	D	D	D	D	D	D	D	D	D			
9/23/2021	XX	SWXXX49I	D	D	D	D	D	D	D	D	D	D	D			

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(PBF)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

PBF													
5/3/2000	XX	PBFXX36649	0.1 U	1 U	0.084	59	1	3.4	30.4	20	25.3	8.6	5.6
8/9/2000	XX	PBFXX36747	0.1 U	1.7	0.018	328	4	10.7	192	145	187.9	7.4	50.2
11/8/2000	XX	PBFXX36838	0.1 U	2.2	0.02	78	3	1.2	20.2	26	26.3	7.6	7.2
5/16/2001	XX	PBFXX37027	0.1 U	1.9	0.012	378	4	16	230.5	215	236	5.8	53.8
7/31/2001	XX	PBFXX37103	0.1 U	6	0.038	125	7	2.6	57.2	37	40	12.9	15.9
10/23/2001	XX	PBFXX37187	0.1 U	1 U	0.034	408	4	14.1	175.1	232	246	6.6	57.7
5/21/2002	XX	PBFXX37397	0.1 U	1 U	0.005	330	4	15.9	210.5	185	198	8.8	45.1
8/8/2002	XX	PBFXX37476	0.1 U	1 U	0.055	105	21	4.2	42.6	38	42	11.5	9
10/24/2002	XX	PBFXX37553	0.1 U	1 U	0.029	45	2	3.9	14.4	18	18	13.2	4.3
6/26/2003	XX	PBFXX37798	0.2 U	2 U	0.1 U	41	2	2.1	30	24	24	11	2.9
8/13/2003	XX	PBFXX37846	0.2 U	2 U	0.1 U	54	12	2.3	36	26	27	9.8	3.4
10/23/2003	XX	PBFXX37917	0.2 U	2 U	0.1 U	54	4	5	40	26	27	14	3.9
5/6/2004	XX	PBFXX38113	0.2 U	2 U	0.1 U	18	1 U	2.6	29	22	22	11	3.3
7/27/2004	XX	PBFXX38195	0.2 U	0.5 U	0.1 U	79	2	10	73	62	65	7.3	4.6
10/25/2004	XX	PBFXX38285	0.2 U	2 U	0.1 U	68	1 U	2.8	30	27	27	8.8	3.7
5/12/2005	XX	SWPBFX017	0.2 U	2 U	0.1 U	66	2	4.4	29	23	23	8.7	2.7
7/25/2005	XX	SWPBFX02J	0.2 U	2 U	0.1 U	86	2.5	2.8	25	22	23	13	3.5
11/10/2005	XX	SWPBFX04B	0.2 U	2 U	0.1 U	42	1 U	4.3	24	18	18	8	2.5
5/2/2006	XX	SWPBFX097	0.2 U	2 U	0.02 U	20	2.5	3.6	46	30	31	6.4	3.8
8/3/2006	XX	SWPBFX07F	0.2 U	2 U	0.02 U	650	4	5.4	35	35	35	11	2.8
10/18/2006	XX	SWPBFX063	0.2 U	2 U	0.02 U	59	1.1	7.4	38	37	37	8.6	3.6
5/21/2007	XX	SWPBFX0AJ	0.95	2 U	0.02 U	43	2.9	4.4	31	30	30	5	3.1
8/8/2007	XX	SWPBFX0CC	0.2 U	0.5 U	0.022	61	1 U	1.7	23	19	19	9.3	2 U
11/6/2007	XX	SWPBFX0E4	0.2 U	0.5 U	0.02	67	2.6	9.2	26	22	22	8.6	3.3
6/11/2008	XX	SWPBFX0GC	0.2 U	0.5 U	0.082	280	3.4	19	150	162	170	17	16
8/19/2008	XX	SWPBFX0IC	0.2 U	0.5 U	0.026	81	1 U	2.2	34	35	35	9.6	2.5
10/22/2008	XX	SWPBFX100	0.2 U	0.5 U	0.03	60	1.8	2.1	24	21	21	9.2	2 U
5/7/2009	XX	SWPBFX120	0.2 U	0.5 U		34	1.7	1.9	19	21	21	6.3	1.3
8/12/2009	XX	SWPBFX140	0.2 U	0.5 U	0.05 U	93	1.1	3.2	71	60	61	6.4	3.3
10/27/2009	XX	SWPBFX158	0.2 U	0.5 U	0.02 U	84	1 U	8.9	32	30	30	6.4	4.4
6/7/2010	XX	SWPBFX179	0.2 U	0.5 U	0.02 U	82	3.8	3	43	52	52	6	9.6
8/18/2010	XX	SWPBFX19A	0.2 U	0.5 U	0.02 U	44	1.1 U	1 U	14	21	21	1.1	7.9
10/21/2010	XX	SWPBFX1AI	0.2 U	0.5 U	0.024	1 U	1.4 U	3.2	17	15	15	7.3	2 U
5/18/2011	XX	SWXXXX1E8	0.2 U	0.5 U	0.02 U	17	5 U	1.8	19	17	17	7.2	3
8/10/2011	XX	SWXXXX1FJ	0.08 U	0.2 U	0.021	26	0.45 U	1.5	16	16	16	9	1.2 J
8/10/2011	XD	LTDP3X1G9	0.08 U	0.2 U	0.016	33	0.46 U	1.5	16	16	16	9.2	1.3 J
11/2/2011	XX	SWXXXX1HA	0.082 U	0.2 U	0.02	69	2.35 J	6.7	37	36	36	5	4.4

PBFR													
5/14/2012	XX	SWXXXX1J4	0.2 U	0.5 U	0.02 U	39	2.5 U	4.8	34	32	32	4.5	4.3
8/14/2012	XX	SWXXXX20H	0.2 U	0.25 U	0.18	85	16	5.2	39	45	45	16.9	2.2
10/29/2012	XX	SWXXXX22B	0.2 U	0.5	0.16	58	2.5 U	7.6	50	36	36	8	4.1
10/29/2012	XD	SWDP2X230	0.2 U	0.25 U	0.03	58	2.5 U	5.9	48	32	32	7.8	3.8
5/21/2013	XX	SWXXXX245	0.2 U	0.25 U	0.02 U	30	2.5 U	1.1	18	21	21	6.8	1
5/21/2013	XD	SWDP2X24E	0.2 U	0.25 U	0.02 U	35	2.5 U	1	18	21	21	6.5	1
7/24/2013	XX	SWXXXX25J	0.2 U	0.25 U	0.03	33	2.7	0.82	16	22	22	9.1	1
7/24/2013	XD	SWDP2X268	0.2 U	0.25 U	0.02 U	23	2.5 U	0.83	15	21	21	9.5	1
10/1/2013	XX	SWXXXX27D	0.2 U	0.37	1.1	33	12	4.2	18	14	14	9.2	1.3

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(PBFR)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
10/1/2013	XD	SWDP3X282	0.2 U	2	1.2	18	5 U	5.1	21	17	17	10	1.2				
6/5/2014	XX	SWXXXX297	0.1 U	0.05 U	0.1 U	35	4 U	1 U	19	15	15	6.2	2.5				
6/5/2014	XD	SWDP2X29G	0.1 U	0.05 U	0.1 U	36	4 U	1 U	18.3	16	16	6.2	2.2				
8/21/2014	XX	SWXXXX2B1	0.1 U	0.05 U	0.1 U	41	7.2	1 U	20	20	20	6.6	2.8				
8/21/2014	XD	SWDP2X2BA	0.1 U	0.05 U	0.1 U	32	4 U	1 U	19.8	22	22	6.7	2.8				
11/13/2014	XX	SWXXXX2CF	0.1 U	0.36	0.1 U	61	6.8	12	23.5	15	15	6.8	4.4				
11/13/2014	XD	SWDP3X2D4	0.1 U	0.05 U	0.1 U	50	4 U	4.5	23.1	16	16	6.7	4.1				
6/4/2015	XX	SWXXXX2EB	0.1 U	0.05 U	0.1 U	72	8	4.9	37.1	38	38	3.9	4				
6/4/2015	XD	SWDP2X2F0	0.1 U	0.05 U	0.1 U	61	13	4.8	36.4	39	39	4.1	3.6				
9/3/2015	XX	SWXXXX2G6	0.1 U	0.05 U	0.1 U	47	4.8	1 U	29	27	27	8.4	3.6				
9/3/2015	XD	SWDP2X2GF	0.1 U	0.05 U	0.1 U	57	4 U	1 U	28.4	25	25	8.4	3.7				
11/5/2015	XX	SWXXXX2I0	0.1 U	0.05 U	0.1 U	71	4 U	1 U	25.4	23	23	8.1	2.8				
11/5/2015	XD	SWDP3X2I9	0.1 U	0.05 U	0.1 U	64	10	1 U	27.2	22	22	7.8	3.7				
6/16/2016	XD	SWDP2X31J	0.1 U	0.05 U	0.1 U	30	4 U	1 U	21.7	20	20	6	3.6				
6/16/2016	XX	SWXXXX31A	0.1 U	0.05 U	0.1 U	45	4 U	1 U	22	20	20	6	5.1				
9/22/2016	XD	SWDP2X33D	0.1 U	0.05 U	0.1 U	47	4 U	1 U	22.8	20	20	6.5	3.3				
9/22/2016	XX	SWXXXX334	0.1 U	0.05 U	0.1 U	51	4 U	1 U	22.3	21	21	6.4	3				
11/10/2016	XD	SWDP3X357	0.1 U	0.46	0.1 U	57	4 U	15	26	19	19	6.3	6.2				
11/10/2016	XX	SWXXXX34I	0.1 U	0.45	0.1 U	51	4 U	14	25.7	17	17	6.3	6.3				
6/15/2017	XD	SWDP2X372	0.1 U	0.05 U	0.1 U	43	4 U	1 U	23.7	18	18	9	2.6				
6/15/2017	XX	SWXXXX36D	0.1 U	0.05 U	0.1 U	46	4 U	1 U	24.2	18	18	9.1	3.4				
8/31/2017	XD	SWDP2X38G	0.1 U	0.05 U	0.1 U	69	8.8	1.5	35	28	28	9.9	3.6				
8/31/2017	XX	SWXXXX387	0.1 U	0.5	0.1 U	72	18	1 U	31.2	22	22	9.7	3.1				
11/16/2017	XD	SWDP3X3AA	0.1 U	0.77	0.18	97	76	37	38	7.4	7.4	11	3.7				
11/16/2017	XX	SWXXXX3A1	0.1 U	0.86	0.16	99	190	25	37.8	5.1	5.1	11	4.3				
6/21/2018	XD	SWDP2X3C5	0.1 U	0.05 U	0.1 U	83	4 U	1 U	22.8	18	18	7.9	2 U				
6/21/2018	XX	SWXXXX3BG	0.1 U	0.05 U	0.1 U	94	4 U	1 U	22.7	17	17	7.9	2 U				
8/16/2018	XD	SWDP2X3D0	0.1 U	0.05 U	0.1 U	56	4 U	1 U	23.4	17	17	8.8	2.1				
8/16/2018	XX	SWXXXX3CB	0.1 U	0.12	0.1 U	76	4 U	1	24.4	19	19	8.9	2 U				
11/29/2018	XD	SWDP3X3FD	0.1 U	0.5	0.1 U	200	20	89	150	53	53	6.4	5.8				
11/29/2018	XX	SWXXXX3F4	0.1 U	1.9	0.1 U	200	14	89	144	40	40	6.9	5.7				
6/6/2019	XD	SWDP2X3H8	0.1 U	0.05 U	0.1 U	48	4 U	1 U	27.1	23	23	8.6	2.3				
6/6/2019	XX	SWXXXX3GJ	0.1 U	0.05 U	0.1 U	46	4 U	1 U	45.6	24	24	8.9	2.2				
8/15/2019	XD	SWDP2X3I3	0.1 U	0.05 U	0.1 U	48	4 U	1 U	23.3	20	20	9	3.7				
8/15/2019	XX	SWXXXX3HE	0.1 U	0.05 U	0.1 U	55	4.4	1 U	23.4	20	20	8.9	4				
10/24/2019	XD	SWDP3X40G	0.1 U	0.14	0.1 U	70	4 U	11	38.1	25	25	13	4.3				
10/24/2019	XX	SWXXXX407	0.1 U	0.14	0.1 U	62	4 U	11	37.4	25	25	13	4.1				
6/18/2020	XD	SWDP2X42B	0.1 U	0.05 U	0.1 U	51	4 U	1 U	20.9	18	18	8.8	2 U				
6/18/2020	XX	SWXXXX422	0.1 U	0.26	0.1 U	43	17	4.3	20.5	17	17	8.8	2 U				
8/6/2020	XD	SWDP2X436	0.1 U	0.05 U	0.1 U	29	4 U	1.2	20.8	16	16	9.4	2 U				
8/6/2020	XX	SWXXXX42H	0.1 U	0.05 U	0.1 U	55	4 U	1.1	20	16	16	9.4	2 U				
10/22/2020	XD	SWDP3X45J	0.1 U	0.05 U	0.1 U	78	4 U	25	49.7	24	24	9.1	2.4				
10/22/2020	XX	SWXXXX45A	0.1 U	0.05 U	0.1 U	79	4 U	16	51.1	26	26	9.5	2.2				
6/24/2021	XX	SWXXXX475	0.1 U	0.09	0.1 U	36	4 U	1 U	23.3	20	20	11	2 U				
6/24/2021	XD	SWDP2X47E	0.1 U	1.2	0.1 U	21	4 U	1 U	23.3	17	17	10	2.1				
9/23/2021	XX	SWXXXX490	0.1 U	0.05 U	0.1 U	31	4 U	1 U	26	28	28	8.7	2 U				
9/23/2021	XD	SWDP3X499	0.1 U	0.05 U	0.1 U	44	4 U	1 U	25.9	28	28	8.8	2 U				
PBFB																	
5/3/2000	XX	PBFBXX36649	0.1 U	1 U	0.068	37	3	3.2	16.8	12	13.1	16.7	3				

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(PFBF)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
8/9/2000	XX	PBFXX36747	0.1 U	1 U	0.007	58	8	1 U	14.9	190	200	13.3	1.5				
11/8/2000	XX	PBFXX36838	0.1 U	1.1	0.003	47	5	3.2	10.2	5	5.1	9.1	2.9				
5/16/2001	XX	PBFXX37027	0.1 U	1.9	0.018	48	2	3.3	11.6	7	7	10.4	2.1				
7/31/2001	XX	PBFXX37103	0.1 U	1 U	0.016	54	12	5.7	13.4	14	14	11.2	3.8				
10/24/2001	XX	PBFXX37188	0.1 U	1 U	0.022	114	12	17.1	30.1	1 U	1 U	6.7	3.1				
5/21/2002	XX	PBFXX37397	0.1 U	1.2	0.009	57	2	5.1	12.9	2.58	4	10.4	1 U				
8/6/2002	XX	PBFXX37474	0.1 U	1 U	0.014	73	15	3.8	25	24	25	14	1.1				
10/24/2002	XX	PBFXX37553	0.1 U	1 U	0.016	41	1	11.4	10.6	8	8	9.7	2.2				
6/26/2003	XX	PBFXX37798	0.2 U	2 U	0.1 U	36	9	1 U	19	12	12	15	2 U				
8/13/2003	XX	PBFXX37846	0.2 U	2 U	0.1 U	34	2	2.1	21	14	14	11	2.4				
10/23/2003	XX	PBFXX37917	0.2 U	2 U	0.1 U	71	4	3.2	16	4	4	38	2				
5/6/2004	XX	PBFXX38113	0.2 U	2 U	0.1 U	29	1 U	2.4	24	16	16	13	2.8				
7/27/2004	XX	PBFXX38195	0.2 U	0.5 U	0.1 U	10	3	1.5	18	29	30	21	2 U				
10/25/2004	XX	PBFXX38285	0.2 U	2 U	0.1 U	67	1 U	5.3	19	11	11	10	2.8				
5/12/2005	XX	SWPBF018	0.2 U	2 U	0.1 U	51	1 U	3.5	21	17	17	8.6	2				
7/25/2005	XX	SWPBF030	0.2 U	2 U	0.1 U	70	2.5	2.3	26	21	22	13	3.2				
11/10/2005	XX	SWPBF04C	0.2 U	2 U	0.1 U	52	2.5	3.4	10	18	18	16	2 U				
5/2/2006	XX	SWPBF098	0.2 U	2 U	0.05	57	2	2	16	10	11	10	2 U				
8/3/2006	XX	SWPBF07G	0.2 U	2 U	0.03	42	3.3	1.3	23	20	20	13	2 U				
10/18/2006	XX	SWPBF064	0.2 U	2 U	0.02 U	43	1.7	4.2	10 U	11	11	14	2 U				
5/21/2007	XX	SWPBF0B0	0.98	2 U	0.025	20	1 U	2.4	13	8	7.9	7.1	2 U				
8/8/2007	XX	SWPBF0CD	0.2 U	0.5 U	0.03	65	2	1.2	25	23	23	11	2 U				
11/6/2007	XX	SWPBF0E5	0.2 U	0.5 U	0.02	83	1 U	5.6	10 U	2	3	21	2 U				
6/11/2008	XX	SWPBF0GD	0.2 U	0.5 U	0.032	77	1.2	2.5	12	4	4.7	23	2 U				
8/19/2008	XX	SWPBF0ID	0.2 U	0.5 U	0.023	66	1.4	1.6	24	21	21	11	2 U				
10/22/2008	XX	SWPBF101	0.2 U	0.5 U	0.05	76	3.4	2.6	23	16	16	14	2 U				
5/7/2009	XX	SWPBF121	0.2 U	0.5 U		51	1.2	1.3	14	12	12	8.4	2 U				
8/12/2009	XX	SWPBF141	0.2 U	0.5 U	0.05 U	90	3.3	1 U	26	22	22	22	2 U				
10/27/2009	XX	SWPBF159	0.2 U	0.5 U	0.02 U	87	1 U	5	10	6	5.7	14	2 U				
6/7/2010	XX	SWPBF17A	0.2 U	0.5 U	0.22	58	50	1.8	10 U	20	20	20	2 U				
8/18/2010	XX	SWPBF19B	0.2 U	0.5 U	0.021	49	9.6	1 U	20	27	27	11	2 U				
10/21/2010	XX	SWPBF1AJ	0.2 U	0.5 U	0.03	47	8	7.1	10 U	5	5.1	10	2 U				
5/18/2011	XX	SWXXX1E7	0.2 U	0.5 U	0.02 U	15	5 U	2	14	11	11	8.2	2 U				
8/10/2011	XX	SWXXX1FI	0.08 U	0.2 U	0.023	29	6.6	1.3	16	15	15	9.4	1.3 J				
11/2/2011	XX	SWXXX1H9	0.082 U	0.2 U	0.046	50	28	1.6	13	12	12	18	1.4 J				
5/14/2012	XX	SWXXX1J3	0.2 U	0.5 U	0.19	37	8.7	28	17	2 U	2 U	15	2 U				
8/14/2012	XX	SWXXX20G	0.2 U	0.25 U	0.11	42	140	0.86	16	27	27	18.6	1.7				
10/29/2012	XX	SWXXX22A	0.2 U	0.25 U	0.02 U	10	23	1.1	17	14	14	9.5	1.1				
5/21/2013	XX	SWXXX244	0.2 U	0.25 U	0.02 U	8	2.5 U	2	10 U	13	13	7.5	1.1				
7/24/2013	XX	SWXXX25I	0.2 U	0.25 U	0.02 U	36	2.5 U	0.67	16	20	20	10	0.96				
10/1/2013	XX	SWXXX27C	0.2 U	0.25 U	0.02 U	21	2.5 U	0.76	17	2 U	2 U	9.3	0.86				
6/5/2014	XX	SWXXX296	0.1 U	0.05 U	0.1 U	40	28	1 U	17	14	14	7.2	2.4				
8/21/2014	XX	SWXXX2B0	0.1 U	0.05 U	0.1 U	40	5.2	1 U	17.6	18	18	6.6	3.9				
11/13/2014	XX	SWXXX2CE	0.1 U	0.05 U	0.1 U	42	4 U	1 U	17.8	16	16	7.6	2.9				
6/4/2015	XX	SWXXX2EA	0.1 U	0.18	0.1	22	4.4	1 U	13.7	13	13	7.3	2.9				
9/3/2015	XX	SWXXX2G5	0.1 U	0.066	0.1 U	28	4 U	5.5	18.3	16	16	8.4	2 U				
11/5/2015	XX	SWXXX2HJ	0.1 U	0.05 U	0.1 U	52	4 U	1 U	17.9	16	16	8.9	3				
6/16/2016	XX	SWXXX319	0.1 U	0.05 U	0.1 U	67	4 U	1 U	18.4	16	16	6.3	4.1				
9/22/2016	XX	SWXXX333	0.12	0.05 U	0.1 U	61	4 U	1 U	19.6	18	18	6.6	3.2				
11/10/2016	XX	SWXXX34H	0.1 U	0.05 U	0.1 U	43	4 U	1 U	16.5	18	18	6.4	3.4				

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(PBFB)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
6/15/2017	XX	SWXXX36C	0.1 U	0.05 U	0.1 U	45	4 U	1 U	20.7	16	16	9.9	2 U				
8/31/2017	XX	SWXXX386	0.1 U	0.073	0.1 U	58	4 U	1 U	22.6	18	18	9.1	3.1				
11/16/2017	XX	SWXXX3A0	0.1 U	0.05 U	0.1 U	67	4 U	1 U	26.6	20	20	11	3.8				
6/21/2018	XX	SWXXX3BF	0.1 U	0.05 U	0.1 U	54	10	1 U	19.6	15	15	8.6	2 U				
8/16/2018	XX	SWXXX3CA	0.1 U	0.05 U	0.1 U	82	4 U	1 U	21.9	19	19	9.4	2 U				
11/29/2018	XX	SWXXX3F3	0.1 U	0.3	0.1 U	57	4 U	9.9	26.4	13	13	11	3.5				
6/6/2019	XX	SWXXX3GI	0.1 U	0.05 U	0.1 U	48	4 U	1 U	18.3	14	14	11	2 U				
8/15/2019	XX	SWXXX3HD	0.1 U	0.05 U	0.1 U	51	4 U	1 U	17.4	18	18	9.1	3.2				
10/24/2019	XX	SWXXX406	0.1 U	0.06	0.1 U	44	7.2	1 U	20.2	12	12	16	3.5				
6/18/2020	XX	SWXXX421	0.1 U	0.05 U	0.1 U	57	15	1 U	18.3	16	16	9.4	2 U				
8/6/2020	XX	SWXXX42G	0.1 U	1.1	0.1 U	41	4 U	3.4	18.8	9.1	9.1	9.5	2 U				
10/22/2020	XX	SWXXX459	0.1 U	0.05 U	0.1 U	63	8.4	5.8	22.4	13	13	13	2 U				
6/24/2021	XX	SWXXX474	0.1 U	0.05 U	0.1 U	45	6.8	1 U	20.5	18	18	10	2.3				
9/23/2021	XX	SWXXX48J	0.1 U	0.05 U	0.1 U	46	16	1 U	21.6	18	18	15	2 U				
SPO																	
5/3/2000	XX	SPOXX36649	D		D			D	D			D	D				
8/9/2000	XX	SPOXX36747	D		D			D	D			D	D				
11/8/2000	XX	SPOXX36838	D		D			D	D			D	D				
5/16/2001	XX	SPOXX37027	D	D			D	D		D	D	D	D				
7/31/2001	XX	SPOXX37103	D	D			D	D	D	D	D	D	D				
10/23/2001	XX	SPOXX37187	D	D	D		D	D	D	D	D	D	D				
5/21/2002	XX	SPOXX37397	D	D	D	D	D	D	D	D	D	D	D				
7/30/2002	XX	SPOXX37467	D	D	D	D	D	D	D	D	D	D	D				
10/22/2002	XX	SPOXX37551	D	D	D	D	D	D	D	D	D	D	D				
6/23/2003	XX	SPOXX37795	D	D	D	D	D	D	D	D	D	D	D				
8/13/2003	XX	SPOXX37846	D	D	D	D	D	D	D	D	D	D	D				
10/20/2003	XX	SPOXX37914	D	D	D	D	D	D	D	D	D	D	D				
5/6/2004	XX	SPOXX38113	0.2 U	2 U	0.12	100	3	4.1	81	65	67	17	4.8				
7/27/2004	XX	SPOXX38195	D	D	D	D	D	D	D	D	D	D	D				
10/25/2004	XX	SPOXX38285	D	D	D	D	D	D	D	D	D	D	D				
5/12/2005	XX	SWSP0X01A	D	D	D	D	D	D	D	D	D	D	D				
7/25/2005	XX	SWSP0X032	D	D	D	D	D	D	D	D	D	D	D				
11/10/2005	XX	SWSP0X04E	0.2 U	2 U	0.1 U	140	3	15	110	75	77	12	6.8				
5/2/2006	XX	SWSP0X09A	0.2 U	2 U	0.05	98	1.5	2.3	86	67	69	15	19				
8/3/2006	XX	SWSP0X07I	0.2 U	2 U	0.12	130	7.5	1 U	76	74	75	17	4.8				
10/18/2006	XX	SWSP0X066	0.2 U	2 U	0.06	82	5.7	4.3	45	45	46	13	6.8				
5/21/2007	XX	SWSP0X0B2	0.2 U	2 U	0.042	92	2	3.2	58	54	55	9.3	13				
8/9/2007	XX	SWSP0X0CF	D	D		D	D	D	D	D	D	D	D				
11/6/2007	XX	SWSP0X0E7	0.2 U	0.5 U	0.03	94	2	14	30	21	21	13	2.1				
6/11/2008	XX	SWSP0X0GF	0.2 U	0.5 U	0.1	90	6.5	4.7	36	27	27	18	2 U				
8/19/2008	XX	SWSP0X0GJ	D	D	D	D	D	D	D	D	D	D	D				
10/22/2008	XX	SWSP0X103	D	D	D	D	D	D	D	D	D	D	D				
5/7/2009	XX	SWSP0X123	0.2 U	0.5 U		100	0.6 U	6.7	57	53	54	10	9.4				
8/17/2009	XX	SWSP0X127	D	D	D	D	D	D	D	D	D	D	D				
10/27/2009	XX	SWSP0X15B	0.2 U	0.5 U	0.02	70	1 U	10	33	27	27	10	3.7				
6/7/2010	XX	SWSP0X17C	0.2 U	0.5 U	0.038	80	2.1	2	35	36	36	16	7.4				
8/18/2010	XX	SWSP0X17H	D	D		D	D	D	D	D	D	D	D				
10/21/2010	XX	SWSP0X1B1	D	D		D	D	D	D	D	D	D	D				
5/18/2011	XX	SWXXX1EA	0.2 U	0.5 U	0.02 U	43	5 U	9.2	39	29	29	13	3.9				

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(SPO)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
8/10/2011	XX	SWXXXX1G1	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6				
11/2/2011	XX	SWXXXX1HC	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6				
5/14/2012	XX	SWXXXX1J6	0.2 U	0.5 U	0.041	59	3.1	5.7	40	32	32	13	5.9				
8/14/2012	XX	SWXXXX20J	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6				
10/29/2012	XX	SWXXXX22D	0.2 U	0.25 U	0.12	80	26	3.6	42	33	33	16	6.6				
5/21/2013	XX	SWXXXX247	0.2 U	0.53	0.11	54	23	2.7	27	31	31	11	7.2				
7/24/2013	XX	SWXXXX261	0.21	0.25 U	0.083	69	37	3.9	21	38	38	12	4.7				
10/1/2013	XX	SWXXXX27F	I	I	I	I	I	I	I	I	I	I	I				
6/5/2014	XX	SWXXXX299	D	D	D	D	D	D	D	D	D	D	D				
8/21/2014	XX	SWXXXX2B3	I	I	I	I	I	I	I	I	I	I	I				
11/13/2014	XX	SWXXXX2CH	0.1 U	0.05 U	0.1 U	75	4 U	6.5	30	25	25	11	3.3				
6/4/2015	XX	SWXXXX2ED	0.1 U	0.05 U	0.1 U	79	24	1 U	40.2	41	41	11	3.7				
9/3/2015	XX	SWXXXX2G8	D	D	D	D	D	D	D	D	D	D	D				
11/5/2015	XX	SWXXXX2I2	0.1 U	0.05 U	0.1 U	82	4 U	6.2	36.2	28	28	9.8	2.5				
6/16/2016	XX	SWXXXX31C	D	D	D	D	D	D	D	D	D	D	D				
9/22/2016	XX	SWXXXX336	D	D	D	D	D	D	D	D	D	D	D				
11/10/2016	XX	SWXXXX350	I	I	I	I	I	I	I	I	I	I	I				
6/15/2017	XX	SWXXXX36F	I	I	I	I	I	I	I	I	I	I	I				
8/31/2017	XX	SWXXXX389	D	D	D	D	D	D	D	D	D	D	D				
11/16/2017	XX	SWXXXX3A3	D	D	D	D	D	D	D	D	D	D	D				
6/21/2018	XX	SWXXXX3BI	D	D	D	D	D	D	D	D	D	D	D				
8/16/2018	XX	SWXXXX3CD	D	D	D	D	D	D	D	D	D	D	D				
6/6/2019	XX	SWXXXX3H1	0.1 U	0.05 U	0.1 U	96	16	1 U	62.5	51	52	15	2.8				
8/15/2019	XX	SWXXXX3HG	D	D	D	D	D	D	D	D	D	D	D				
10/24/2019	XX	SWXXXX409	0.1 U	0.34	0.1 U	64	5.2	7.9	34.8	24	24	15	3.1				
6/18/2020	XX	SWXXXX424	D	D	D	D	D	D	D	D	D	D	D				
8/6/2020	XX	SWXXXX42J	I	I	I	I	I	I	I	I	I	I	I				
10/22/2020	XX	SWXXXX45C	I	I	I	I	I	I	I	I	I	I	I				
6/24/2021	XX	SWXXXX477	D	D	D	D	D	D	D	D	D	D	D				
9/23/2021	XX	SWXXXX492	D	D	D	D	D	D	D	D	D	D	D				
SPON																	
5/12/2005	XX	SWSPON01B	0.32	2 U	0.1 U	400	16	42	270	240	260	16	19				
7/25/2005	XX	SWSPON033	D	D		D	D	D	D	D	D	D	D				
11/10/2005	XX	SWSPON04F	0.2 U	2 U	0.1 U	380	2.5	28	360	260	290	9.5	24				
5/2/2006	XX	SWSPON09B	0.2 U	2 U	0.09	270	20	18	280	220	240	15	22				
8/3/2006	XX	SWSPON07J	2.3	2 U	0.05	960	3.6	80	750	640	670	30	41				
10/18/2006	XX	SWSPON067	2	2 U	0.06	440	6.2	41	320	270	290	13	33				
5/21/2007	XX	SWSPON0B3	0.46	2 U	0.033	360	1.4	50	260	220	240	12	20				
8/9/2007	XX	SWSPON0CG	D	D		D	D	D	D	D	D	D	D				
11/6/2007	XX	SWSPON0E8	0.2 U	1	0.06	310	8.9	74	130	105	110	16	6.3				
6/11/2008	XX	SWSPON0GG	0.2 U	0.5 U	0.15	230	13	29	150	115	120	22	4.4				
8/19/2008	XX	SWSPON0H0	0.3	0.5 U	0.13	330	6.9	1.9	250	270	290	22	9.3				
10/22/2008	XX	SWSPON104	0.78	0.5 U	0.12	480	4.1	12	430	360	380	18	25				
5/7/2009	XX	SWSPON124	0.2 U	0.5 U		380	3	5.4	290	300	320	14	25				
8/12/2009	XX	SWSPON128	0.2 U	0.5 U	0.05 U	270	3.1	3.3	240	210	230	12	8.6				
10/27/2009	XX	SWSPON15C	0.2 U	0.5 U	0.02 U	260	1 U	22	220	180	190	10	13				
6/7/2010	XX	SWSPON17D	0.2 U	0.5 U	0.02 U	190	1.3	5	180	140	140	15	2.9				
8/18/2010	XX	SWSPON17I	D	D		D	D	D	D	D	D	D	D				
10/21/2010	XX	SWSPON1B2	0.2 U	0.5 U	0.11	420	1.4 U	64	280	240	260	11	29				

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Inorganics

(SPON)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
5/18/2011	XX	SWXXXX1EB	0.2 U	0.5 U	0.022	170	5 U	7.3	150	150	150	9.2	9.6				
8/10/2011	XX	SWXXXX1G2	D	D	D	D	D	D	D	D	D	D	D				
11/2/2011	XX	SWXXXX1HD	1.6	0.2 U	0.059	470	1.46 J	17	360	400	400	14	49				
5/14/2012	XX	SWXXXX1J7	0.2 U	0.5 U	0.024	140	2.5 U	5.7	130	130	130	13	5.4				
8/14/2012	XX	SWXXXX210	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6				
10/29/2012	XX	SWXXXX22E	1.7	0.25 U	0.049	440	5 U	23	360	370	370	11	34				
5/21/2013	XX	SWXXXX248	0.2 U	0.25 U	0.04	420	2.5 U	5.3	300	340	340	15	36				
7/24/2013	XX	SWXXXX262	0.29	0.25 U	0.5	250	18	6.8	140	190	190	16	9.2				
10/1/2013	XX	SWXXXX27G	1.3	0.25 U	0.02 U	380	8.7	4.1	320	330	330	13	26				
6/5/2014	XX	SWXXXX29A	0.3	0.16	0.1 U	540	8.8	1 U	396	400	400	14	36				
8/21/2014	XX	SWXXXX2B4	0.28	0.05 U	0.1 U	410	13	32	232	270	270	12	30				
11/13/2014	XX	SWXXXX2CI	1.2	0.12	0.13	400	4 U	20	291	320	320	20	27				
6/4/2015	XX	SWXXXX2EE	0.87	0.05 U	0.1 U	440	30	1 U	289	330	330	15	29				
9/3/2015	XX	SWXXXX2G9	0.7	0.11	0.15	550	26	1 U	404	450	450	22	29				
11/5/2015	XX	SWXXXX2I3	1.2	0.18	0.1 U	390	4.8	1 U	286	320	320	11	31				
6/16/2016	XX	SWXXXX31D	0.14	0.9	0.1 U	450	24	1 U	350	330	330	16	38				
9/22/2016	XX	SWXXXX337	D	D	D	D	D	D	D	D	D	D	D				
11/10/2016	XX	SWXXXX351	0.1 U	18	0.1 U	890	4 U	380	640	240	240	21	25				
6/15/2017	XX	SWXXXX36G	0.1 U	0.096	0.1 U	440	4 U	77	378	300	300	17	13				
8/31/2017	XX	SWXXXX38A	D	D	D	D	D	D	D	D	D	D	D				
11/16/2017	XX	SWXXXX3A4	0.11	0.085	0.1 U	750	4 U	270	600	300	300	17	14				
6/21/2018	XX	SWXXXX3BJ	D	D	D	D	D	D	D	D	D	D	D				
8/16/2018	XX	SWXXXX3CE	D	D	D	D	D	D	D	D	D	D	D				
11/29/2018	XX	SWXXXX3F7	0.1 U	0.72	0.1 U	390	4 U	140	310	170	170	11	5.3				
6/6/2019	XX	SWXXXX3H2	0.26	0.093	0.1 U	400	5.6	34	336	310	310	15	11				
8/15/2019	XX	SWXXXX3HH	0.1 U	0.05 U	0.1 U	310	16	22	243	240	240	11	11				
10/24/2019	XX	SWXXXX40A	0.1 U	0.52	0.1 U	330	7.6	89	265	170	170	16	3.7				
6/18/2020	XX	SWXXXX425	D	D	D	D	D	D	D	D	D	D	D				
8/6/2020	XX	SWXXXX430	D	D	D	D	D	D	D	D	D	D	D				
10/22/2020	XX	SWXXXX45D	0.1 U	0.05 U	0.1 U	260	4 U	38	190	160	160	13	4.8				
6/24/2021	XX	SWXXXX478	D	D	D	D	D	D	D	D	D	D	D				
9/23/2021	XX	SWXXXX493	0.1 U	0.05 U	0.1 U	270	15	28	224	220	220	15	4				
SPOS																	
5/12/2005	XX	SWSP0501C	0.2 U	2 U	0.13	93	1 U	5.8	190	43	44	8.5	2.5				
7/25/2005	XX	SWSP05034	0.2 U	2 U	0.1 U	150	7	1.9	100	98	100	15	2.1				
11/10/2005	XX	SWSP0504G	0.2 U	2 U	0.1 U	71	1 U	5.4	55	46	47	7.6	3				
5/2/2006	XX	SWSP0509C	0.2 U	2 U	0.02 U	49	3	3.9	56	49	50	9.7	5.5				
8/3/2006	XX	SWSP05080	0.2 U	2 U	0.02 U	120	1.2 U	1 U	89	82	83	13	2.9				
10/18/2006	XX	SWSP05068	0.2 U	2 U	0.02 U	94	1 U	3.2	64	63	64	10	6.2				
5/21/2007	XX	SWSP050B4	0.2 U	2 U	0.02 U	66	1 U	3.8	44	40	41	8.8	6.3				
8/8/2007	XX	SWSP050CH	0.2 U	0.5 U	0.021	120	4.6	1 U	68	63	64	13	2 U				
11/6/2007	XX	SWSP050E9	0.2 U	0.5 U	0.02 U	92	1 U	8.8	46	34	34	12	3.9				
11/6/2007	XD	SWDP4X0F1	0.2 U	0.5 U	0.02 U	170	1 U	8.6	46		36	12	3.9				
6/11/2008	XX	SWSP050GH	0.2 U	0.5 U	0.034	97	1 U	4.3	50	40	40	15	3.4				
8/19/2008	XX	SWSP050H1	0.2 U	0.5 U	0.038	160	1 U	1 U	88	94	95	12	3				
10/22/2008	XX	SWSP05105	0.2 U	0.5 U	0.03	140	1 U	3.2	83	73	74	8.8	11				
5/7/2009	XX	SWSP05125	0.2 U	0.5 U		80	0.6 U	2.7	49	50	51	7.5	6				
8/12/2009	XX	SWSP05129	0.2 U	0.5 U	0.05 U	130	0.6 U	1 U	94	80	81	12	3.1				
10/27/2009	XX	SWSP0515D	0.2 U	0.5 U	0.02 U	16	1 U	5.4	41	35	36	12	3.1				

SUMMARY REPORT

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(SPOS)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride				
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
6/7/2010	XX	SWSP0S17E	0.2 U	0.5 U	0.02 U	78	1 U	2.5	44	52	52	11	4				
8/18/2010	XX	SWSP0S17J	D	D		D	D	D	D	D	D	D	D				
10/21/2010	XX	SWSP0S1B3	0.2 U	0.5 U	0.025	120	1.4 U	21	59	39	39	8.4	4.2				
10/21/2010	XD	SWDP4X1B7	0.2 U	0.5 U	0.022	140	1.4 U	22	59		39	8.4	4.2				
5/18/2011	XX	SWXXX1EC	0.2 U	0.5 U	0.02 U	33	8.3 U	3.8	38	37	37	8.8	2.3				
8/10/2011	XX	SWXXX1G3	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6				
11/2/2011	XX	SWXXX1HE	0.082 U	0.2 U	0.0079 J	75	0.32 U	2.5	53	56	56	9.5	3				
5/14/2012	XX	SWXXX1J8	0.2 U	0.5 U	0.02 U	62	2.5 U	3.1	45	41	41	12	2.3				
8/14/2012	XX	SWXXX211	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6				
10/29/2012	XX	SWXXX22F	0.2 U	0.25 U	0.02 U	78	2.5 U	6.2	63	56	56	7.8	3.7				
5/21/2013	XX	SWXXX249	0.2 U	0.25 U	0.02 U	53	2.5 U	2	49	54	54	8.3	2.4				
7/24/2013	XX	SWXXX263	0.2 U	0.25 U	0.02 U	79	2.5 U	2.4	53	52	52	14	1.1				
10/1/2013	XX	SWXXX27H	0.2 U	0.25 U	0.02 U	88	2.5 U	0.58	83	87	87	11	1.4				
6/5/2014	XX	SWXXX29B	0.1 U	0.05 U	0.1 U	110	4.4	1 U	83.4	91	91	7.3	2 U				
8/21/2014	XX	SWXXX2B5	0.1 U	0.12	0.1 U	130	7.2	14	78.6	83	83	9.9	3.3				
11/13/2014	XX	SWXXX2CJ	0.1 U	0.05 U	0.1 U	84	4 U	5	45.5	41	41	8.2	3				
6/4/2015	XX	SWXXX2EF	0.1 U	0.05 U	0.1 U	73	4 U	1 U	44	45	45	7.6	2 U				
9/3/2015	XX	SWXXX2GA	0.1 U	0.05 U	0.1 U	150	7.2	1 U	101	100	100	13	2.3				
11/5/2015	XX	SWXXX2I4	0.1 U	0.05 U	0.1 U	88	4 U	1 U	48.8	45	45	8.6	2.8				
6/16/2016	XX	SWXXX31E	D	D	D	D	D	D	D	D	D	D	D				
9/22/2016	XX	SWXXX338	D	D	D	D	D	D	D	D	D	D	D				
11/10/2016	XX	SWXXX352	0.1 U	0.05 U	0.1 U	140	4 U	39	94	74	74	7.2	5.7				
6/15/2017	XX	SWXXX36H	0.1 U	0.05 U	0.1 U	93	4 U	1 U	72	71	71	8.2	2 U				
8/31/2017	XX	SWXXX38B	D	D	D	D	D	D	D	D	D	D	D				
11/16/2017	XX	SWXXX3A5	0.1 U	0.05 U	0.1 U	82	4 U	7.6	55.2	43	43	8	4				
6/21/2018	XX	SWXXX3C0	0.1 U	0.05 U	0.1 U	140	4 U	1 U	90.4	97	97	10	2 U				
8/16/2018	XX	SWXXX3CF	0.1 U	0.05 U	0.1 U	120	4 U	1 U	75.6	78	78	10	2 U				
11/29/2018	XX	SWXXX3F8	0.1 U	0.05 U	0.1 U	45	4 U	3	45	38	38	7.7	2.7				
6/6/2019	XX	SWXXX3H3	0.1 U	0.05 U	0.1 U	80	4 U	1 U	56	54	54	9.2	2 U				
8/15/2019	XX	SWXXX3HI	0.1 U	0.05 U	0.1 U	120	4 U	1 U	85.2	88	88	8.6	2.5				
10/24/2019	XX	SWXXX40B	0.1 U	0.05 U	0.1 U	96	4 U	1 U	51.1	47	47	18	3.1				
6/18/2020	XX	SWXXX426	0.1 U	0.35	0.1 U	120	6	1 U	88.7	100	100	10	2 U				
8/6/2020	XX	SWXXX431	0.1 U	0.05 U	0.1 U	120	6.4	1 U	96.2	94	94	8.7	2 U				
10/22/2020	XX	SWXXX45E	0.1 U	0.05 U	0.1 U	100	4 U	18	58.7	38	38	14	2 U				
6/24/2021	XX	SWXXX479	0.1 U	0.05 U	0.1 U	98	4 U	1 U	69	75	75	9	2 U				
9/23/2021	XX	SWXXX494	0.1 U	0.05 U	0.1 U	84	8.8	1 U	61.7	60	60	11	2 U				
UDLP																	
6/24/2021	XX	LFXXX47J	0.19	0.098		540	4 U	24	452	420	420	6.9	30				
9/23/2021	XX	LFXXX49F	0.16	0.096		310	4 U	13	282	310	310	4.2	13				

REPORT PREPARED: 12/8/2021 06:59 FOR: Dolby Landfill			SUMMARY REPORT Inorganics									Page 39 of 39 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021	
(UDLP)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Chloride
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- ! - The sampling location was damaged or destroyed.
- D - The sampling location was dry.
- F6 - No flow. Sample not taken.
- H - Analyzed outside U.S.EPA's recommended hold time
- I - The sampling location yielded insufficient quantity to collect a sample.
- J - Analyte was positively identified/Associated value is an estimate.
- U - Not Detected above the laboratory reporting limit.
- UH - Not Detected above the laboratory reporting limit. Analyzed outside U.S.EPA's recommended hold time
- Y4 - Laboratory instrument malfunction, therefore no data available to report.

REPORT PREPARED: 12/8/2021 07:00
 FOR: Dolby Landfill

SUMMARY REPORT
 LP Inorganics

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(LP)		Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Biochemical Oxygen Demand	Chemical Oxygen Demand	Chloride	Cyanide
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L

LP															
4/7/1986	XX	LPXX31509	0.32				10						37		12
6/23/1986	XX	LPXX31586	0.13				11					103		30	
9/17/1986	XX	LPXX31672	3.1				15					136		44	
11/11/1986	XX	LPXX31727	0.1 U				3					158		58	
4/6/1987	XX	LPXX31873	20				200					428		72	
6/29/1987	XX	LPXX31957	12				4					260		115	
10/5/1987	XX	LPXX32055	2				1100	4320				5615		300	
11/16/1987	XX	LPXX32097	8		3		900	4734				5680		270	
3/29/1988	XX	LPXX32231	5		2		125	780				574		48	
6/27/1988	XX	LPXX32321	12		1.45		250	2428				2080		240	
9/26/1988	XX	LPXX32412	11		1.47		14	2174				1235		180	
11/10/1988	XX	LPXX32457	19		0.955		164	1987				1068		280	
3/26/1989	XX	LPXX32593	17		0.86		260	957				560		46	
6/23/1989	XX	LPXX32682	21		0.33		155	1789				1168		330	
9/25/1989	XX	LPXX32776	20		0.15		71	1990				1140		560	
12/4/1989	XX	LPXX32846	24		1.58		30	2130						320	
3/22/1990	XX	LPXX32954	9		1.46		192	1078				238		130	
6/19/1990	XX	LPXX33043	4		0.77		73	683				190		120	
9/6/1990	XX	LPXX33122	18		0.104		45	1688				284		238	
10/23/1990	XX	LPXX33169	5		0.42		109	730				274		90	
3/13/1991	XX	LPXX33310	7.8		0.97		69.6	384.6				164.8		60	
6/7/1991	XX	LPXX33396	18.5				10	1272.7				225		171	
8/23/1991	XX	LPXX33473	1.7		0.08		30	761.7				116		111	
10/14/1991	XX	LPXX33525	7.6		1.29		41	1089.4				210		178	
3/17/1992	XX	LPXX33680	13.8		1.04		292	1487				365		187	
6/11/1992	XX	LPXX33766	8.4		1.26		30	1627				440		266	
8/13/1992	XX	LPXX33829	8.3		0.69		22	1942.3				375		296	
10/20/1992	XX	LPXX33897	21.8		0.15		25	1869				470		302	
4/13/1993	XX	LPXX34072	9.3		0.71		568	3589				581		1648	
8/3/1993	XX	LPXX34184	17.6		2.12		6.7	2204				615		1911	
10/19/1993	XX	LPXX34261	3.1		0.16		230	1320.5				297		1020	
5/10/1994	XX	LPXX34464	12.5		0.24		156	6430.2				252		932	
8/2/1994	XX	LPXX34548	10.5		0.52		150	1557.3				188		598	
10/19/1994	XX	LPXX34626	18.4		0.23		14.4	1254.8				172		605	271.5
5/2/1995	XX	LPXX34821	8.3		0.165		39	1458.8				143			224
7/7/1995	XX	LPXX34887	8.16		1.33		62.5	1760.9				260			244
10/16/1995	XX	LPXX34988	8.9		1.04		128	1311.4				136			250
5/15/1996	XX	LPXX35200	11		0.06		18.5	1217.6				258			265
8/12/1996	XX	LPXX35289	10.8		1.76		20.8	1657.6				355			209
10/9/1996	XX	LPXX35347	12.8		0.395		30.6	1760.1				357			222
6/5/1997	XX	LPXX35586	13.24		0.16		32	1777.6				450			166
8/14/1997	XX	LPXX35656	13.7		1.97		58	2450.9				457			211
10/31/1997	XX	LPXX35734	12.6		1.67		17.3	1345.5				276.8			175
5/5/1998	XX	LPXX35920	12.8		0.156		61.3	1421				195.7			181
8/14/1998	XX	LPXX36021	13.6		0.208		72.1	1423				129.1			140
10/21/1998	XX	LPXX36089	14.2		0.984		79.5	1264				193.4			154
4/28/1999	XX	LPXX36278	19.35		0.301		39.4	1257.2				111.5			102
7/23/1999	XX	LPXX36364	17.46		0.276		3.5	1470.5				118.9			218

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LP Inorganics

(LP)			Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Biochemical Oxygen Demand	Chemical Oxygen Demand	Chloride	Cyanide
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
10/14/1999	XX	LPXX36447	17.68		0.978	2582		59.4	1573.4			462			156	
5/3/2000	XX	LPXX36649	23.4	6.1	1.364	1943	133	61.7	1243.8	1180	1351.4	263			95.2	
8/9/2000	XX	LPXX36747	14.56	15.5	1.18	2440	101	8.4	1407.3	1475	1835.7	238.8			136.8	
11/8/2000	XX	LPXX36838	22.05	13.5	0.861	2464	80	78	1351.7	1900	1979.6	203.3			110.6	
5/16/2001	XX	LPXX37027	22.8	10	0.503	2563	125	50	1418.9	1800	1865	253			141.4	
7/31/2001	XX	LPXX37103	27	2.4	0.287	3903	128	20	1035.2	2550	2700	383.4			208	
10/23/2001	XX	LPXX37187	22.4	4.4	1.1	3556	50	17.4	1810.8	2415	2475	325.2			248	
5/21/2002	XX	LPXX37397	15.75	1.88	0.093	1828	129	91	1229.7	1230	1354	56.3			107	
8/6/2002	XX	LPXX37474	22.05	3.1	0.585	2684	119	3.2	1302.4	1914	2005	140.1			161.5	
10/24/2002	XX	LPXX37553	21.1	1.35	0.575	2118	45	52.2	1167.1	1650	1720	144.5			139.6	
6/26/2003	XX	LPXX37798	14	2 U	0.23	1400	83	70	1100	1000	1100	68			78	
8/13/2003	XX	LPXX37846	14	2 U	0.36	1400	50	51	870	1080	1100	74			58	
10/22/2003	XX	LPXX37916	11	2 U	0.13	1000	58	180	930	680	710	60	36	180	27	27
5/6/2004	XX	LPXX38113	9.9	2 U	0.1 U	1000	54	77	870	800	840	46	54	140	37	10 U
7/27/2004	XX	LPXX38195	15	0.5 U	0.1 U	1400	55	47	2300	1120	1200	80	68	220	93	10 U
10/25/2004	XX	LPXX38285	21	2 U	0.1 U	1700	24	13	1300	1300	1400	64			100	
5/12/2005	XX	LTLPPX002	11	2 U	0.28	1100	35	61	970	840	880	69			48	
7/25/2005	XX	LTLPPX01E	14	2 U	0.27	1800	86	30	1300	1600	1700	77			88	
11/9/2005	XX	LTLPPX036	12	2 U	0.1 U	920	50	95	1000	900	980	40	22	140	48	10 U
5/2/2006	XX	LTLPPX082	12	2 U	0.3	1300	54	80	1100	890	980	47			53	
8/3/2006	XX	LTLPPX06A	12	2 U	0.41	910	58	32	820	780	810	52			41	
10/18/2006	XX	LTLPPX04I	17	2 U	0.65	1400	50	120	650	1040	1100	48	20	170	65	19
5/21/2007	XX	LTLPPX09E	1.1	2 U	0.43	1000	65	66	790	780	820	59			47	
5/21/2007	XD	LTXXX0ED	1.1	2 U	0.47	1100	64	54	850	860	860	77			38	
8/8/2007	XX	LTLPPX0B7	A	A		A	A	A	A	A	A	A			A	
11/6/2007	XX	LTLPPX0CJ	4.2	1.9	0.28	1200	82	320	680	590	640	67	64	200	38	0.015
5/27/2008	XX	LTLPPX0F7	1.2	0.5 U	0.22	1200	63	15	810	880	930	92			69	
8/19/2008	XX	LTLPPX0H7	4.3	0.5 U	0.28	1100	66	33	740	860	920	56			45	
10/22/2008	XX	LTLPPX0IF	6	0.5 U	0.55	1900	69	100	1500	1300	1400	120	110	300	92	0.01 U
5/7/2009	XX	LTLPPX10F	7.5	0.5 U		1400	50	50	1200	940	1000	170			33	
8/12/2009	XX	LTLPPX12F	8.3	0.5 U	0.26	1400	30	4	1300	1120	1200	260			59	
10/27/2009	XX	LTLPPX143	4.9	0.59	0.14	840	59	65	680	675	710	150	170	400	34	0.18
6/7/2010	XX	LTLPPX164	8.2	0.5 U	0.19	1300	87	48	670	960	1000	130			62	
6/7/2010	XD	LTD4X162	8	0.5 U	0.21	1300	95	48	680		1000	130			62	
8/18/2010	XX	LTLPPX185	15	0.5 U	0.022	2000	46	11	760	1560	1700	110			140	
10/21/2010	XX	LTLPPX19D	10	0.5 U	0.37	1400	45	150	920	1060	1100	68	18	140	66	0.01 U
5/18/2011	XX	LTXXX1ED	5	0.5 U	0.11	710	31	37	500	610	610	37			24	
5/18/2011	XD	LTXXX1EI	5	0.5 U	0.11	710	33	37	510	620	620	36			24	
8/10/2011	XX	LTXXX1G4	6.6	0.2 U	0.51	1300	68	15	680	1200	1300	89			130	
11/2/2011	XX	LTXXX1HF	11	0.2 U	0.16	1200	17	67	750	1100	1100	51			48	
11/2/2011	XD	LTD3X110	11	0.2 U	0.15	1100	20	66	770	980	980	51			48	
5/14/2012	XX	LTXXX1J9	5.6	0.52	0.035	640	24	33	490	520	520	26			17	
8/15/2012	XX	LTXXX212	5.3	0.25 U	0.33	1300	100	13	690	1100	1100	96.5			85	
8/15/2012	XD	LTD3X217	5.3	0.25 U	0.34	1300	92	13	650	1000	1000	97.7			84	
10/30/2012	XX	LTXXX22G	9.6	0.25 U	0.12	940	23	70	680	780	780	32			33	
5/21/2013	XX	LTXXX24A	8	0.25 U	0.14	960	42	26	650	810	810	31			42	
7/25/2013	XX	LTXXX264	6.4	0.25 U	0.17	900	70	11	370	740	760	43			47	
10/1/2013	XX	LTXXX27I	11	0.25 U	0.066	1000	18	18	510	890	890	33			37	
6/5/2014	XX	LTXXX29C	11	0.05 U	0.1 U	1100	7.2	1 U	749	850	850	27			39	
8/21/2014	XX	LTXXX2B6	27	0.05 U	0.14	1800	82	1.1	1160	1400	1400	51			82	

(LP)	Date	Type	Sample ID	Ammonia (N)	Nitrate (N)	Total Phosphorus	Total Dissolved Solids	Total Suspended Solids	Sulfate	Ca-mg Hardness (CaCO3)	Bicarbonate Alkalinity (CaCO3)	Alkalinity (CaCO3)	Organic Carbon	Biochemical Oxygen Demand	Chemical Oxygen Demand	Chloride	Cyanide
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11/13/2014	XX		LTXXXX2D0	6.9	1.1	0.1 U	830	7.2	100	556	590	590	23			23	
6/4/2015	XX		LTXXXX2EG	6.2	0.36	0.1 U	700	15	28	500	550	560	18			19	
9/3/2015	XX		LTXXXX2GB	7.8	0.16	0.14	1100	26	1.5	705	870	880	47			50	
11/5/2015	XX		LTXXXX2I5	7.6	0.39	0.1 U	800	25	3.1	548	640	640	24			24	
6/16/2016	XX		LTXXXX31F	11	0.38	0.1 U	1100	6.8	1 U	760	930	930	30			48	
9/22/2016	XX		LTXXXX339	4.2	0.84	0.19	1400	24	1 U	871	1000	1100	54			82	
11/10/2016	XX		LTXXXX353	14	0.69	0.1 U	1500	14	1 U	918	1200	1200	51			82	
6/15/2017	XX		LTXXXX36I	12	0.12	0.1 U	1000	4 U	26	810	910	910	30			39	
8/31/2017	XX		LTXXXX38C	27	0.05 U	0.11	1800	10	1 U	1230	1600	1600	55			91	
11/16/2017	XX		LTXXXX3A6	7.4	0.75	0.1 U	780	8.4	77	610	600	600	22			26	
6/21/2018	XX		LTXXXX3C1	9.2	1.4	0.1 U	1300	8.8	1 U	875	1000	1000	34			50	
8/16/2018	XX		LTXXXX3CG	5.5	0.53	0.15	1000	49	54	644	810	820	35			50	
11/29/2018	XX		LTXXXX3F9	3.2	0.6	0.1 U	270	4 U	33	259	260	260	9.9			11	
6/6/2019	XX		LTXXXX3H4	7.5	0.18	0.1 U	680	17	23	551	630	630	19			20	
8/15/2019	XX		LTXXXX3HJ	16	0.05 U	0.1 U	1200	4 U	1 U	824	1100	1100	45			51	
10/24/2019	XX		LTXXXX40C	12	0.68	0.1 U	950	6.8	35	696	850	850	30			39	
6/18/2020	XX		LTXXXX427	12	0.05 U	0.1 U	1000	4 U	1 U	742	1000	1000	32			39	
8/6/2020	XX		LTXXXX432	4.4	0.31	0.1 U	1200	10	1.4	907	1000	1000	43			57	
10/22/2020	XX		LTXXXX45F	3.7	4.4	0.1 U	750	9.6	88	565	540	540	24			27	
6/24/2021	XX		LTXXXX47A	8.5	0.084	0.1 U	1200	4.8	1 U	822	1000	1000	40			50	
10/5/2021	XX		LTXXXX49J	5.6	0.52	0.1 U	710	7.2	55	523	580	580	23			21	

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- A- The sampling location was Inaccessible
- U- Not Detected above the laboratory reporting limit.

SUMMARY REPORT

Metals

(103)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
103																	
4/27/2000	XX	103XX36643				0.02 U		0.01 U	0.36	1.38							
8/1/2000	XX	103XX36739				0.058		0.01 U	0.3	1.49							
10/24/2000	XX	103XX36823				D				D							
5/8/2001	XX	103XX37019	0.008 U			0.119		0.01 U	0.24	1.2							
7/24/2001	XX	103XX37096	D			D		D	D	D							
10/16/2001	XX	103XX37180	D			D		D	D	D							
5/15/2002	XX	103XX37391	0.01 U	0.9		0.095	0.4	0.01 U	0.36	1.5							
7/29/2002	XX	103XX37466	0.01	1.3		0.034	0.4	0.01 U	0.28	1.5							
10/18/2002	XX	103XX37547	D	D		D	D	D	D	D							
6/18/2003	XX	103XX37790	0.005 U	2.8		0.032	1 U	0.01 U	1 U	1.3							
8/6/2003	XX	103XX37839	0.005 U	3.1		0.02	1 U	0.01 U	1 U	1.4							
10/6/2003	XX	103XX37900	0.005 U	3.5		0.031	1 U	0.01 U	1 U	1.8							
5/12/2004	XX	103XX38119	0.005 U	3.1		0.022	1 U	0.01 U	1 U	1 U							
8/19/2004	XX	103XX38218	0.005 U	3.5		0.031	1 U	0.01 U	1 U	1.9							
10/18/2004	XX	103XX38278	D	D		D	D	D	D	D							
5/24/2005	XX	GW103X004	0.005 U	2.9		0.03	1 U	0.01 U	1 U	1.2							
8/17/2005	XX	GW103X01G	0.005 U	2.8		0.02	1 U	0.01 U	1 U	1.6							
10/13/2005	XX	GW103X038	D	D		D	D	D	D	D							
5/15/2006	XX	GW103X084	0.005 U	3.7		0.02	1 U	0.01 U	1 U	1.7							
8/7/2006	XX	GW103X06C	0.005 U	4.1		0.02	1 U	0.01 U	1 U	1.8							
10/11/2006	XX	GW103X050	0.005 U	3.9		0.02 B	1 U	0.01 U	1 U	1.7							
5/22/2007	XX	GW103X09G	0.005 U	3.6		0.11	1 U	0.01 U	1 U	1.7							
8/21/2007	XX	GW103X0B9	D	D		D	D	D	D	D							
11/1/2007	XX	GW103X0D1	0.005 U	4.1		0.059	1 U	0.01 U	1 U	1.8							
5/28/2008	XX	GW103X0F9	0.005 U	3.8		0.024	1 U	0.01 U	1 U	1.6							
8/26/2008	XX	GW103X0H9	0.005 U	3.3		0.03	1 U	0.01 U	1 U	1.5							
10/28/2008	XX	GW103X0IH	0.005 U	4.3		0.043	1 U	0.01 U	1 U	1.8							
5/18/2009	XX	GW103X10H	0.005 U	2.9		0.017	1 U	0.01 U	1 U	1.4							
8/17/2009	XX	GW103X12H	0.005 U	3.4		0.072	1 U	0.01 U	1 U	1.3							
10/29/2009	XX	GW103X145	0.005 U	3		0.068	1 U	0.01 U	1 U	1.4							
6/10/2010	XX	GW103X166	0.005 U	3.2		0.019	1 U	0.01 U	1 U	1.4							
8/19/2010	XX	GW103X187	D	D		D	D	D	D	D							
10/26/2010	XX	GW103X19F	0.005 U	4		0.36	1 U	0.013	1 U	1.6							
9/20/2021	XX	GW103X49B	D	D		D	D	D	D	D							
104B																	
4/27/2000	XX	104BXX36643				0.049		0.132	1.12	4.25							
8/1/2000	XX	104BXX36739				0.043		0.08	1.01	4.05							
10/24/2000	XX	104BXX36823	0.008 U			0.189		0.08	1.01	4.2							
5/8/2001	XX	104BXX37019	0.008 U			0.329		0.09	1.14	4.6							
7/24/2001	XX	104BXX37096	0.008 U			0.063		0.08	1.12	4.3							
10/16/2001	XX	104BXX37180	0.01 U			0.064		0.06	1.04	4.1							
5/15/2002	XX	104BXX37391	0.01 U	9.6		0.13	1.8	0.07	1.177	4.7							
7/29/2002	XX	104BXX37466	0.01 U	10.2		0.036	1.7	0.07	1.03	4.1							
10/15/2002	XX	104BXX37544	0.01 U	9.1		0.062	1.6	0.06	1	3.8							
6/19/2003	XX	104BXX37791	0.005 U	26		0.016	2	0.08	1 U	4							
8/5/2003	XX	104BXX37838	0.005 U	24		0.01 U	1.9	0.064	1	3.5							
10/7/2003	XX	104BXX37901	0.005 U	22		0.01	1.8	0.056	1 U	3.6							

SUMMARY REPORT

Metals

(104B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
4/26/2004	XX	104BXX38103	0.005 U	25		0.01 U	2	0.063	1.2	5.1							
8/9/2004	XX	104BXX38208	0.005 U	22		0.044	1.8	0.063	1 U	3.5							
10/11/2004	XX	104BXX38271	0.005 U	23		0.024	1.8	0.063	1 U	3.7							
5/24/2005	XX	GW104B005	0.005 U	20		0.03	1.6	0.04	1 U	3.5							
8/1/2005	XX	GW104B01H	0.005 U	21		0.02	1.7	0.05	1 U	4.1							
10/25/2005	XX	GW104B039	0.005 U	24		0.03	1.7	0.04	1 U	4.1							
5/10/2006	XX	GW104B085	0.005 U	27		0.01 B	1.8	0.04	1 U	3.9							
7/24/2006	XX	GW104B06D	0.005 U	25		0.02 B	1.8	0.04	1.2	4.3							
10/10/2006	XX	GW104B051	0.005 U	23		0.04 B	1.8	0.05	1	4							
5/10/2007	XX	GW104B09H	0.005 U	23		0.041	1.7	0.032	1 U	3.6							
8/6/2007	XX	GW104B08A	0.005 U	25		0.02	1.8	0.045	1.2	4.7							
10/24/2007	XX	GW104B0D2	0.005 U	22		0.01	1.7	0.04	1 U	4							
10/24/2007	XD	GWDP2X0EJ	0.005 U	23		0.01 U	1.7	0.04	1 U	4.2							
5/28/2008	XX	GW104B0FA	0.005 U	23		0.04	1.8	0.03	1	4.3							
8/11/2008	XX	GW104B0HA	0.005 U	19		0.011	1.6	0.03	1 U	3.8							
10/15/2008	XX	GW104B0II	0.005 U	20		0.02	1.6	0.03	1	3.7							
10/15/2008	XD	GWDP1X106	0.005 U	20		0.01 U	1.6	0.03	1	3.7							
5/6/2009	XX	GW104B10I	0.005 U	19		0.02	1.5	0.027	1 U	3.6							
8/4/2009	XX	GW104B12I	0.005 U	18		0.015	1.5	0.026	1 U	3.3							
10/19/2009	XX	GW104B146	0.005 U	21		0.02	1.7	0.03	1	4.3							
5/25/2010	XX	GW104B167	0.005 U	20		0.01 U	1.6	0.024	1.1	3.9							
5/25/2010	XD	GWDP1X15J	0.005 U	20		0.025	1.6	0.024	1.1	3.9							
8/2/2010	XX	GW104B188	0.005 U	20		0.025	1.6	0.022	1.1	3.8							
10/12/2010	XX	GW104B19G	0.005 U	20		0.16	2	0.022	1 U	3.5							
5/16/2011	XX	GW104B1DI	0.005 U	21		0.01 U	1.6	0.023	1.1	3.8							
5/16/2011	XD	GWXXX1EG	0.005 U	21		0.01 U	1.7	0.024	1.1	4							
8/9/2011	XX	GW104B1F9	0.0016 U	21		0.017	1.7	0.028	1	4							
11/3/2011	XX	GW104B1H0	0.0016 U	20		0.011	1.6	0.031	0.91 J	3.9							
11/3/2011	XD	GWDP2X1HJ	0.0016 U	18		0.0088 J	1.5	0.027	0.86 J	3.6							
5/14/2012	XX	GW104B1IE	0.005 U	20		0.02	1.7	0.03	1.1	4.1							
5/14/2012	XD	GWXXX1JC	0.005 U	21		0.014	1.7	0.03	1.1	4.1							
8/14/2012	XX	GW104B207	0.005 U	18		0.01	1.6	0.029	1 U	3.9							
8/14/2012	XD	GWDP1X215	0.005 U	18		0.029	1.5	0.03	1 U	3.9							
10/31/2012	XX	GW104B221	0.005 U	21		0.01 U	1.7	0.028	1.1	4.2							
5/22/2013	XX	GW104B23F	0.005 U	19		0.01 U	1.5	0.023	1 U	3.5							
5/22/2013	XD	GWDP3X24F	0.005 U	15		0.01 U	1.2	0.018	1 U	2.8							
7/23/2013	XX	GW104B259	0.005 U	22		0.01 U	1.6	0.021	1.3	4.1							
10/1/2013	XX	GW104B273	0.005 U	20		0.01 U	1.6	0.026	1 U	4.1							
6/4/2014	XX	GW104B28H	0.008 U	21.5		0.1 U	1.87	0.0176	1	4.29							
6/4/2014	XD	GWDP3X29H	0.008 U	21.6		0.1 U	1.89	0.0183	1 U	4.29							
8/19/2014	XX	GW104B2AB	0.008 U	22.5		0.1 U	1.7	0.0213	1 U	4.29							
11/12/2014	XX	GW104B2C5	0.008 U	20.7		0.1 U	1.71	0.0223	1 U	4.23							
6/3/2015	XX	GW104B2E1	0.008 U	20.4		0.1 U	1.77	0.019	1.05	4.16							
6/3/2015	XD	GWDP3X2F1	0.008 U	20		0.1 U	1.7	0.019	1 U	4.03							
9/2/2015	XX	GW104B2FG	0.008 U	22.4		0.1 U	1.83	0.014	1 U	4.66							
11/4/2015	XX	GW104B2HA	0.008 U	21.2		0.1 U	1.78	0.019	1.01	4.39							
6/14/2016	XD	GWDP3X320	0.008 U	21.8		0.1 U	1.84	0.021	1.1	4.4							
6/14/2016	XX	GW104B310	0.008 U	20.9		0.1 U	1.81	0.021	1.1	4.35							
9/20/2016	XX	GW104B32E	0.008 U	22		0.1 U	1.78	0.018	1	4.49							
11/8/2016	XX	GW104B348	0.008 U	22.6		0.1 U	1.61	0.016	1	4.54							

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Metals

(104B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
6/14/2017	XD	GWDP3X373	0.008 U	22.3		0.1 U	1.82	0.0223	1.15	4.41							
6/14/2017	XX	GW104B363	0.008 U	21.9		0.1 U	1.83	0.0277	1.22	4.32							
8/30/2017	XX	GW104B37H	0.008 U	22		0.297	1.76	0.0552	1.05	4.5							
11/15/2017	XX	GW104B39B	0.008 U	22.1		0.1 U	1.7	0.0166	1	4.51							
6/19/2018	XD	GWDP3X3C6	0.008 U	19.5		0.1 U	1.86	0.0253	1 U	3.95							
6/19/2018	XX	GW104B3B6	0.008 U	21		0.1 U	2.01	0.0273	1 U	4.22							
8/14/2018	XX	GW104B3DF	0.008 U	21.6		0.1 U	1.74	0.0172	1 U	4.26							
11/27/2018	XX	GW104B3EE	0.008 U	22.9		0.1 U	1.7	0.0197	1.12	4.65							
6/4/2019	XD	GWDP3X3H9	0.008 U	21.7		0.1 U	1.7	0.0123	1 U	4.18							
6/4/2019	XX	GW104B3G9	0.008 U	23.7		0.1 U	1.84	0.0132	1.04	4.62							
8/14/2019	XX	GW104B3II	0.008 U	22.5		0.1 U	1.78	0.0144	1 U	4.38							
10/22/2019	XX	GW104B3JH	0.008 U	22.1		0.1 U	1.78	0.0079	1.03	4.81							
6/16/2020	XD	GWDP3X42C	0.008 U	21.8		0.1 U	1.77	0.0137	1 U	4.35							
6/16/2020	XX	GW104B41C	0.008 U	22.1		0.1 U	1.75	0.0131	1 U	4.35							
8/4/2020	XX	GW104B44I	0.008 U			0.1 U	1.9	0.019	1.02	4.68							
8/4/2020	XX	GW104B441R		24.4													
10/20/2020	XX	GW104B450	0.008 U	22.6		0.1 U	1.7	0.0159	1.1	4.65							
6/22/2021	XD	GWDP3X47F	0.008 U	23.5		0.135	1.96	0.0335	1.03	4.48							
6/22/2021	XX	GW104B46F	0.008 U	22.6		0.108	1.94	0.0302	1 U	4.29							
9/21/2021	XX	GW104B48A	0.008 U	21		1.01	2.05	0.057	1.12	4.56							
107A																	
5/3/2000	XX	107AXX36649				0.02 U		0.951	1.98	37.35							
8/10/2000	XX	107AXX36748				0.75		0.94	1.86	31.9							
11/9/2000	XX	107AXX36839	0.008 U			1.669		0.99	1.48	25.8							
5/16/2001	XX	107AXX37027	0.008 U			0.366		0.94	1.68	30.2							
8/1/2001	XX	107AXX37104	0.008 U			0.87		12.96	2.56	67.1							
10/24/2001	XX	107AXX37188	0.008 U			1.85		24.96	3.12	93.2							
5/22/2002	XX	107AXX37398	0.01 U	370.2		1.74	131.7	7.05	2.751	89.2							
8/2/2002	XX	107AXX37470	0.03	307.2	0.01 U	1.22	133.3	13.92	3.6	90.9							
10/23/2002	XX	107AXX37552	0.043	226.2	0.01 U	1.007	123	13.17	2.43	73.8							
6/24/2003	XX	107AXX37796	0.005 U	270	0.003 U	1.2	140	17	4	57							
8/13/2003	XX	107AXX37846	0.005 U	220	0.011	0.9	120	15	3.8	56							
10/16/2003	XX	107AXX37910	0.005 U	210	0.003 U	0.65	120	16	4.3	64							
5/13/2004	XX	107AXX38120	0.005 U	130	0.005	0.36	67	0.79	2.9	46							
8/2/2004	XX	107AXX38201	0.005 U	98	0.0081	0.42	43	7.6	2.5	32							
10/19/2004	XX	107AXX38279	0.005 U	100	0.003 U	0.62	52	7.6	2.3	33							
5/10/2005	XX	GW107A006	0.005 U	160	0.003 U	0.36	100	20	3	38							
7/27/2005	XX	GW107A011	0.005 U	160	0.003 U	0.46	110	9.8	3	45							
10/27/2005	XX	GW107A03A	0.005 U	130	0.003 U	0.94	76	14	2.3	37							
5/3/2006	XX	GW107A086	0.005 U	88	0.005 B	0.14	46	7.2	1.5	28							
8/1/2006	XX	GW107A06E	0.005 U	73	0.003 U	0.27	31	5.3	1.9	19							
10/25/2006	XX	GW107A052	0.005 U	50	0.003 U	0.16	19	4.4	1.1	12							
5/8/2007	XX	GW107A09I	0.005 U	62		0.12	32	6.1	1.4	18							
5/8/2007	XD	GWDP3X0EC	0.005 U	58		0.12	30	5.8	1.4	18							
8/7/2007	XX	GW107A0BB	0.005 U	75		0.26	37	11	1.9	18							
10/31/2007	XX	GW107A0D3	0.005 U	99		0.42	56	19	2.4	19							
5/28/2008	XX	GW107A0FB	0.005 U	90		0.2	51	18	2.9	20							
8/18/2008	XX	GW107A0HB	0.005 U	68		0.26	35	14	1.4	18							
10/23/2008	XX	GW107A0IJ	0.005 U	70		0.32	32	12	1.6	20							

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(107A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium									
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Date	Type	Sample ID																	
5/12/2009	XX	GW107A10J	0.005 U	55		0.059	24	10	1.1	16									
5/12/2009	XD	GWDP3X10C	0.005 U	65		0.083	23	12	1.1	15									
8/11/2009	XX	GW107A12J	0.005 U	67		0.17	26	13	2	15									
10/26/2009	XX	GW107A147	0.005 U	57		0.24	29	13	2.3	15									
6/2/2010	XX	GW107A168	0.005 U	75		0.054	24	16	1.8	12									
8/5/2010	XX	GW107A189	0.005 U	79		0.17	25	22	3	14									
8/5/2010	XD	GWDP3X182	0.005 U	84		0.19	25	24	3	14									
10/18/2010	XX	GW107A19H	0.005 U	90		0.28	41	33	4.3	24									
5/18/2011	XX	GW107A1D8	0.005 U	100		0.12	46	39	3.3	28									
8/9/2011	XX	GW107A1EJ	0.0016 U	65		0.19	24	24	2.2	24									
11/2/2011	XX	GW107A1GA	0.0016 U	74		0.61	28	26	4	28									
5/17/2012	XX	GW107A1I4	0.005 U	92		0.15	37	36	3.7	27									
8/14/2012	XX	GW107A1JH	0.005 U	93		0.23	47	50	7.3	38									
10/31/2012	XX	GW107A21B	0.005 U	110		0.42	52	56	7.7	45									
5/21/2013	XX	GW107A235	0.005 U	120		0.22	52	61	5.8	44									
7/22/2013	XX	GW107A24J	0.005 U	110		0.3	40	51	5.5	37									
10/1/2013	XX	GW107A26D	0.005 U	94		0.41	37	41	5.2	34									
6/4/2014	XX	GW107A287	0.008 U	58.2		0.134	18.6	1.2	1.63	18.1									
8/19/2014	XX	GW107A2A1	0.008 U	96.6		0.178	35.2	26.4	2.26	29.8									
11/12/2014	XX	GW107A2BF	0.008 U	103		0.213	50.3	37.6	5	38									
6/3/2015	XX	GW107A2DB	0.008 U	106		0.387	59	45.5	3.78	37.7									
9/2/2015	XX	GW107A2F6	0.008 U	103		0.32	53.3	29.8	4.02	38.1									
11/4/2015	XX	GW107A2H0	0.04 U	106		0.5 U	66	54.5	4.49	48.7									
6/15/2016	XX	GW107A30A	0.008 U	70.6		0.349	33.7	12.3	2.5	26.8									
9/20/2016	XX	GW107A324	0.008 U	64.1		0.5	33.7	9.57	8.3	24.6									
11/8/2016	XX	GW107A33I	0.008 U	75.7		0.424	56	17.9	28.9	28									
6/14/2017	XX	GW107A35D	0.008 U	143		0.519	124	72.5	12.2	52.4									
8/29/2017	XX	GW107A377	0.008 U	126		0.678	98.2	43	13.6	47.3									
11/15/2017	XX	GW107A391	0.008 U	108		0.597	99.9	36.2	24	56									
6/19/2018	XX	GW107A3AG	0.008 U	77.1		0.283	68.8	14.6	10.7	32.1									
8/16/2018	XX	GW107A3D5	0.008 U	91.6		0.3	77.6	24.4	11.1	37.7									
11/28/2018	XX	GW107A3E4	0.008 U	78.2		0.487	61.4	13	18.4	33.7									
6/5/2019	XX	GW107A3FJ	0.008 U	74.3		0.1 U	56.6	8.16	10.6	27.1									
8/14/2019	XX	GW107A3I8	0.008 U	80.5		0.1 U	65.4	17	9.96	28.2									
10/23/2019	XX	GW107A3J7	0.008 U	84.3		0.197	63.9	18.6	15.6	32.3									
6/17/2020	XX	GW107A412	0.008 U	70		0.1 U	54.4	13.7	12.6	26.5									
8/4/2020	XX	GW107A43B	0.008 U			0.182	63.2	11.3	17.7	28.5									
8/4/2020	XX	GW107A43BR		74															
10/22/2020	XX	GW107A44A	0.02 U	99.8		0.212	129	22.6	59.2	51.2									
6/22/2021	XX	GW107A465	0.008 U	93.2		0.537	95.5	14.1	31.3	39.5									
9/21/2021	XX	GW107A480	0.008 U	101		0.576	129	26	45.8	55.4									
113																			
4/27/2000	XX	113XX36643				40.65		7.1	6.53	11.77									
8/1/2000	XX	113XX36739				66.14		9.14	9.68	11.97									
11/8/2000	XX	113XX36838	0.107			54.75		7.95	9.8	10.9									
5/8/2001	XX	113XX37019	0.072			54.55		6.81	6.94	9.4									
7/24/2001	XX	113XX37096	0.096			76.6		9.64	9.51	9.5									
10/16/2001	XX	113XX37180	0.104			59.1		7.78	9.18	9.5									
5/15/2002	XX	113XX37391	0.094	116		61.38	62.3	7.8	7.48	10.7									

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Metals

(113)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
7/31/2002	XX	113XX37468	0.12	118.5	0.01 U	81.42	75.3	9.24	9.29	10.9						
10/18/2002	XX	113XX37547	0.21	102.6	0.014	65.2	69.7	7.05	9.09	9.6						
6/18/2003	XX	113XX37790	0.093	120	0.003 U	56	71	8.5	11	11						
8/6/2003	XX	113XX37839	0.005 U	130	0.003 U	60	78	9	10	12						
10/6/2003	XX	113XX37900	0.1	120	0.003 U	62	76	8.1	9.9	12						
5/12/2004	XX	113XX38119	0.078	130	0.005	58	70	8.3	20	15						
8/19/2004	XX	113XX38218	0.079	120	0.003 U	62	74	8.7	11	12						
10/18/2004	XX	113XX38278	0.1	110	0.003 U	68	79	8.8	14	11						
5/24/2005	XX	GW113X008	0.058	110	0.003 U	54	63	8.1	8.4	9.5						
8/17/2005	XX	GW113X020	0.1	77	0.003 U	38	44	6.5	7.8	8.2						
10/13/2005	XX	GW113X03C	0.097	120	0.008	71	81	10	10	11						
5/15/2006	XX	GW113X088	0.06	140	0.003 U	68	79	9.4	9.9	13						
8/7/2006	XX	GW113X06G	0.086	120	0.005 B	63	69	8.8	11	11						
10/11/2006	XX	GW113X054	0.097	130	0.003 U	79 B	78	9.9	12	11						
5/22/2007	XX	GW113X0A0	0.058	100		58	58	7.8	10	12						
8/21/2007	XX	GW113X0BD	0.092	110		70	64	9.1	10	9.3						
11/1/2007	XX	GW113X0D5	0.095	98		63	62	8.2	9	8.3						
11/1/2007	XD	GWDP1X0EI	0.097	100		66	65	8.7	9.3	8.6						
5/28/2008	XX	GW113X0FD	0.08	110		70	69	9.1	14	11						
8/26/2008	XX	GW113X0HD	0.069	110		72	56	9.6	9.4	9.2						
10/28/2008	XX	GW113X0J1	0.09	140		78	86	11	11	9.8						
5/18/2009	XX	GW113X111	0.049	140		59	71	10	8.9	9.5						
5/18/2009	XD	GWDP1X10A	0.045	150		76	62	11	8.5	9						
8/17/2009	XX	GW113X131	0.064	110		65	59	8.6	9.5	9.5						
10/29/2009	XX	GW113X149	0.07	94		54	52	7	7.9	8.2						
6/10/2010	XX	GW113X16A	0.066	130		78	70	11	9.3	7.8						
8/19/2010	XX	GW113X18B	0.078	97		68	58	8.9	8.8	6.7						
10/26/2010	XX	GW113X19J	0.082	78		56	45	6.8	8.8	6.7						
202AR																
4/27/2000	XX	202ARXX36643				0.35		19.46	8.32	28.77						
8/2/2000	XX	202ARXX36740				1.047		15.03	9.42	27.22						
10/24/2000	XX	202ARXX36823	0.015			1.615		20.25	10.33	27.8						
5/9/2001	XX	202ARXX37020	0.011			0.882		18.78	9.13	26.2						
7/24/2001	XX	202ARXX37096	0.014			1.528		19.17	9.9	24.4						
10/16/2001	XX	202ARXX37180	0.015			1.834		22.32	12.15	29						
5/16/2002	XX	202ARXX37392	0.01 U	276.9		0.94	89.8	19.77	10.296	30						
7/31/2002	XX	202ARXX37468	0.045	122.8	0.01 U	0.898	39.5	16.83	8.8	24.7						
7/31/2002	XD	202ARXD37468			0.01 U											
10/16/2002	XX	202ARXX37545	0.01 U	235.8	0.01 U	1.404	86.1	16.5	9.98	21.9						
6/17/2003	XX	202ARXX37789	0.071	290	0.003 U	0.76	94	20	11	34						
8/6/2003	XX	202ARXX37839	0.007	290	0.003 U	0.95	100	22	12	32						
10/8/2003	XX	202ARXX37902	0.056	290	0.003 U	0.99	95	20	12	30						
4/28/2004	XX	202ARXX38105	0.0095	320	0.003 U	1	100	22	14	34						
8/11/2004	XX	202ARXX38210	0.0076	260	0.0031	1.2	95	20	13	27						
10/12/2004	XX	202ARXX38272	0.012	280	0.003 U	1.3	100	19	11	27						
5/19/2005	XX	GW202A009	0.008	230	0.003 U	0.83	91	19	11	29						
8/4/2005	XX	GW202A021	0.01	220	0.003	1	82	18	13	28						
10/25/2005	XX	GW202A03D	0.011	270	0.003 U	1.2	92	19	13	29						
5/9/2006	XX	GW202A089	0.01	500	0.003 U	0.76	98	20	13	30						

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Metals

(202AR)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium								
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L								
Date	Type	Sample ID																
7/25/2006	XX	GW202A06H	0.009	360	0.003 B	0.83 B	97	20	13	30								
10/19/2006	XX	GW202A055	0.012	260	0.003 U	1.2	89	19	14	26								
5/10/2007	XX	GW202A0A1	0.015	290		0.91	93	19	13	31								
8/6/2007	XX	GW202A0BE	0.013	310		1.3	96	21	17	32								
10/25/2007	XX	GW202A0D6	0.012	340		1.4	130	26	13	39								
5/29/2008	XX	GW202A0FE	0.009	260		0.94	93	19	12	30								
8/12/2008	XX	GW202A0HE	0.007	240		0.95	84	17	12	29								
8/12/2008	XD	GWDP1X0H2	0.007	230		0.98	79	17	11	28								
10/16/2008	XX	GW202A0J2	0.008	210		0.98	74	15	11	26								
5/4/2009	XX	GW202A112	0.005 U	300		0.96	100	21	14	27								
8/5/2009	XX	GW202A132	0.013	340		1	120	23	12	26								
8/5/2009	XD	GWDP1X12A	0.012	340		1	120	19	12	26								
10/20/2009	XX	GW202A14A	0.01	210		1.3	77	18	12	25								
5/26/2010	XX	GW202A16B	0.01	270		1.1	93	20	17	26								
8/2/2010	XX	GW202A18C	0.011	265		1.2	84	18	17	25								
10/12/2010	XX	GW202A1A0	0.0069	210		1.5	81	16	13	23								
5/17/2011	XX	GW202A1DJ	0.005 U	240		1	79	16	15	22								
8/10/2011	XX	GW202A1FA	0.0052	220		1.2	77	18	12	26								
8/10/2011	XD	GWDP1X1G7	0.0024	220		1.2	76	18	12	25								
11/3/2011	XX	GW202A1H1	0.0085	200		1.2	78	17	14	25								
5/16/2012	XX	GW202A1IF	0.005 U	200		1.1	78	16	14	26								
8/15/2012	XX	GW202A208	0.0086	190		1.2	72	16	12	24								
10/31/2012	XX	GW202A222	0.012	200		1.6	83	16	15	25								
5/20/2013	XX	GW202A23G	0.005 U	200		0.95	69	16	13	22								
7/23/2013	XX	GW202A25A	0.0065	200		1	70	16	15	23								
10/2/2013	XX	GW202A274	0.0085	200		1.3	71	16	14	22								
6/3/2014	XX	GW202A28I	0.012	205		1.39	74.2	14.6	12.3	22.8								
8/19/2014	XX	GW202A2AC	0.015	213		1.54	68.3	15.1	12.1	21.2								
11/12/2014	XX	GW202A2C6	0.018	212		2.04	77.2	15.6	13.3	22.5								
6/2/2015	XX	GW202A2E2	0.016	207		1.38	71.9	15.8	12.3	22.7								
9/2/2015	XX	GW202A2FH	0.013	217		1.83	78.3	15.8	13.2	22.8								
11/3/2015	XX	GW202A2HB	0.011	211		1.7	75.9	16.2	13	22.9								
6/14/2016	XX	GW202A311	0.016	205		1.87	73.8	14.5	12.8	23.1								
9/22/2016	XX	GW202A32F	0.015	202		1.84	71.6	14.9	12.4	22.5								
11/9/2016	XX	GW202A349	0.015	216		1.89	68	15.1	13.4	23								
6/13/2017	XX	GW202A364	0.0125	206		1.73	74.8	15.2	13.1	22.6								
8/30/2017	XX	GW202A37I	0.014	204		1.52	71	15.3	12.8	21.9								
11/16/2017	XX	GW202A39C	0.014	209		1.75	72.8	15.5	13.1	23								
6/20/2018	XX	GW202A3B7	0.015	222		1.48	71.6	15.7	13.8	23.7								
8/14/2018	XX	GW202A3DG	0.012	204		1.6	71	14.8	12.8	21.5								
6/4/2019	XX	GW202A3GA	0.026	204		1.66	71.6	15	12.6	21.5								
8/13/2019	XX	GW202A3IJ	0.016	198		1.48	75	14.5	12.9	22.1								
10/24/2019	XX	GW202A3JI	0.014	190		1.58	75	14.5	12.7	21.6								
6/16/2020	XX	GW202A41D	0.008 U	203		0.559	70.1	13.7	13	21.9								
8/5/2020	XX	GW202A442	0.012	221		1.35	78.4	15.4	13.8	23								
10/22/2020	XX	GW202A451	0.013	220		1.82	76.6	16.3	14	22.7								
6/23/2021	XX	GW202A46G	0.008 U	219		0.666	72.8	14.1	13.8	23								
9/23/2021	XX	GW202A48B	0.012	200		2.01	71.3	14.7	12.8	20.7								

202B & 202BR

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Metals

(202B & 202BR)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
4/27/2000	XX	202BXX36643				0.02 U		8.14	4.32	17.37							
8/2/2000	XX	202BXX36740				0.552		9.06	7.18	30.35							
10/24/2000	XX	202BXX36823	0.008 U			1.861		15.96	10.26	38.3							
5/9/2001	XX	202BXX37020	0.008 U			0.266		10.35	6.17	21.8							
7/25/2001	XX	202BXX37097	0.008 U			1.099		15.75	11.14	33.8							
10/16/2001	XX	202BXX37180	0.01 U			0.201		9.33	10.8	30.2							
5/16/2002	XX	202BXX37392	0.01 U	140.6		0.043	72.3	8.24	7.958	23.5							
7/31/2002	XX	202BXX37468	0.031	183.2	0.01 U	0.142	102.5	10.96	10.15	30.2							
10/16/2002	XX	202BXX37545	0.01 U	188.5	0.011	0.36	102.6	8.82	11.52	29.2							
6/17/2003	XX	202BXX37789	0.031	25	0.03	1.9	69	8	9.9	20							
8/6/2003	XX	202BXX37839	0.005 U	190	0.003 U	0.14	110	11	11	32							
10/8/2003	XX	202BXX37902	0.005 U	180	0.004	0.051	100	11	13	32							
4/28/2004	XX	202BXX38105	0.005 U	160	0.0058	0.1	81	10	9.9	25							
8/11/2004	XX	202BXX38210	0.017	200	0.0089	0.41	120	14	13	31							
10/12/2004	XX	202BXX38272	0.005 U	230	0.003 U	0.46	130	14	13	35							
5/19/2005	XX	GW202B00A	0.005 U	110	0.005	1.1	62	7.5	9.1	18							
8/4/2005	XX	GW202B022	0.005 U	150	0.01	1.3	84	10	11	26							
10/25/2005	XX	GW202B03E	0.005 U	120	0.006	0.49	68	7.6	13 E	21							
5/9/2006	XX	GW202B08A	0.005 U	120	0.003 U	0.47	71	8.1	9.7	20							
7/25/2006	XX	GW202B06I	0.005 U	140	0.005 B	1 B	82	9.6	12 E	20							
10/19/2006	XX	GW202B056	0.005 U	170	0.008	2.4	98	9.7	13	26							
5/10/2007	XX	GW202B0A2	0.005 U	99		0.67	60	7.8	8.8	17							
5/10/2007	XD	GWDP1X0EA	0.005 U	97		0.97	58	7.5	8.6	17							
8/6/2007	XX	GW202B0BF	0.007	160		4.6	97	12	15	28							
10/25/2007	XX	GW202B0D7	0.005 U	130		3.1	76	8.8	9.5	24							
5/29/2008	XX	GW202B0FF	0.005 U	95		3	53	7.8	7.7	15							
8/26/2008	XX	GW202B0HF	0.005 U	87		0.59	48	7.4	8.2	16							
10/16/2008	XX	GW202B0J3	0.005 U	100		2.7	58	8.1	8	17							
5/4/2009	XX	GW202B113	0.005 U	120		1.3	68	10	8.5	14							
8/5/2009	XX	GW202B133	0.0057	130		1.6	73	11	8	15							
10/20/2009	XX	GW202B14B	0.005 U	100		4.1	57	8	8.2	16							
5/26/2010	XX	GW202B16C	0.005 U	100		1.1	58	8.8	11	15							
8/2/2010	XX	GW202B18D	0.005 U	33		1.2	22	3.1	4	6							
10/12/2010	XX	GW202B1A1	0.005 U	99		0.22	48	4.6	9.1	15							
5/17/2011	XX	GW202B1E0	0.005 U	51		0.22	27	3.8	5.6	8.7							
8/10/2011	XX	GW202B1FB	0.0016 U	120		0.31	62	12	9.6	20							
11/3/2011	XX	GW202B1H2	0.0016 U	86		0.62	51	7.3	10	16							
5/16/2012	XX	GW202B1IG	0.005 U	74		0.28	43	6.8	9.1	13							
8/15/2012	XX	GW202B209	0.005 U	120		0.38	69	11	11	20							
10/31/2012	XX	GW202B223	0.005 U	83		0.2	47	6.1	11	16							
5/20/2013	XX	GW202B23H	0.005 U	76		0.6	40	6.3	8.8	12							
7/23/2013	XX	GW202B25B	0.005 U	87		0.39	45	6.9	10	14							
10/2/2013	XX	GW202B275	0.005 U	87		0.38	47	6.5	10	13							
6/3/2014	XX	GW202B28J	0.008 U	78.3		1.38	45.5	5.8	8.16	15.4							
8/19/2014	XX	GW202B2AD	0.008 U	135		3.07	74.4	10.2	13.2	19.4							
11/12/2014	XX	GW202B2C7	0.008 U	125		0.642	75.6	8.26	13.2	20.2							
6/2/2015	XX	GW202B2E3	0.008 U	72.2		10.6	40.6	5.52	8.54	19.1							
9/2/2015	XX	GW202B2F1	0.008 U	144		1.9	81	11	14.4	20.9							
11/3/2015	XX	GW202B2HC	0.008 U	117		1.1	65.3	8.72	12.5	20.7							
6/14/2016	XX	GW202B312	0.008 U	85.4		1.32	46.4	6.8	9	12.9							

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Metals

(202B & 202BR)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium								
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L								
Date	Type	Sample ID																
9/22/2016	XX	GW202B32G																
11/9/2016	XX	GW202B34A																
6/13/2017	XX	GW202B365	0.008 U	101		2.86	53	7.08	11	15.2								
8/30/2017	XX	GW202B37J																
11/16/2017	XX	GW202B39D	0.008 U	141		3.11	78	8.42	15.2	26.4								
6/20/2018	XX	GW202B3B8	0.008 U	89.4		6.26	42.4	5.77	10.9	20.8								
8/14/2018	XX	GW202B3DH	0.008 U	143		2.74	77.3	9.8	15.3	20.3								
11/27/2018	XX	GW202B3EG	0.008 U	145		1.49	75.7	7.09	15.8	21.9								
6/4/2019	XX	GW202B3GB	0.008 U	70.8		1.68	34.8	4.66	9.12	15.8								
8/13/2019	XX	GW202B3J0	0.008 U	111		1.16	63.5	8.13	14.1	17.3								
10/24/2019	XX	GW202B3JJ	0.008 U	86.2		0.538	56.1	5.89	13.1	17								
6/16/2020	XX	GW202B41E	!	!		!	!	!	!	!								
8/5/2020	XX	GW202B443	!	!		!	!	!	!	!								
10/22/2020	XX	GW202B452	!	!		!	!	!	!	!								
6/23/2021	XX	GW202B46H	!	!		!	!	!	!	!								
9/23/2021	XX	GW202B48C	0.008 U	186		0.147	111	14.2	24.5	27.8								

205A																		
4/27/2000	XX	205AXX36643				0.538		1.11	1.44	14.13								
8/2/2000	XX	205AXX36740				2.492		0.84	1.83	20.3								
10/25/2000	XX	205AXX36824	0.008 U			2.124		0.93	1.66	16.7								
5/9/2001	XX	205AXX37020	0.008 U			1.848		1.07	1.62	18.5								
7/25/2001	XX	205AXX37097	0.008 U			2.28		1.29	1.76	17.2								
10/17/2001	XX	205AXX37181	0.01 U			2.18		0.94	1.98	19.7								
5/15/2002	XX	205AXX37391	0.01 U	104.9		3.326	28.9	1.35	2.079	23.4								
8/1/2002	XX	205AXX37469	0.016	80.5	0.01 U	2.806	22.2	1.17	1.83	20.5								
10/16/2002	XX	205AXX37545	0.01 U	76.5	0.01 U	2.84	20.4	1.11	1.81	16.4								
6/19/2003	XX	205AXX37791	0.005 U	140	0.003 U	2.5	31	1.5	2.6	26								
8/20/2003	XX	205AXX37853	0.005 U	98	0.012	2.2	23	1.2	2.8	22								
10/9/2003	XX	205AXX37903	0.005 U	96	0.003 U	2.2	22	1.2	2.4	20								
4/27/2004	XX	205AXX38104	0.005 U	120	0.003 U	2	25	1.1	3.9	27								
8/12/2004	XX	205AXX38211	0.005 U	180	0.003 U	2.5	38	1.7	4.5	42								
10/14/2004	XX	205AXX38274	0.005 U	97	0.003 U	1.4	21	0.9	2.3	18								
5/17/2005	XX	GW205A00B	0.005 U	130	0.003 U	1.7	30	0.89	2.9	25								
8/4/2005	XX	GW205A023	0.005 U	130	0.003 U	1.4	29	1	2.6	28								
10/27/2005	XX	GW205A03F	0.005 U	120	0.003 U	1.4	26	0.93	2.9	28								
5/9/2006	XX	GW205A08B	0.005 U	140	0.003 U	1.8	32	0.97	3.4	30								
7/25/2006	XX	GW205A06J	0.005 U	170	0.003 U	1.7 B	39	1	3.7	32								
10/23/2006	XX	GW205A057	0.005 U	100	0.003 U	1.3 B	20	0.8	2.1	26								
5/14/2007	XX	GW205A0A3	0.009	130		2.3	33	0.97	3.9	37								
8/16/2007	XX	GW205A0BG	0.005 U	120		1.5	27	0.96	3	24								
8/16/2007	XD	GWDP1X0EE	0.005 U	110		1.5	26	0.97	3	23								
10/25/2007	XX	GW205A0D8	0.005 U	120		1.4	24	0.89	2.5	27								
5/29/2008	XX	GW205A0FG	0.005 U	150		1.7	33	1.1	2.6	33								
8/12/2008	XX	GW205A0HG	0.005 U	130		1.4	30	0.94	2.5	31								
10/16/2008	XX	GW205A0J4	0.005 U	120		1.3	28	0.91	2	30								
10/16/2008	XD	GWDP2X107	0.005 U	120		1.3	28	0.91	2	31								
5/4/2009	XX	GW205A114	0.005 U	160		1.8	29	0.93	3.8	29								
8/5/2009	XX	GW205A134	0.005 U	180		1.2	27	0.97	2.4	30								
10/20/2009	XX	GW205A14C	0.005 U	100		1.1	24	0.84	3.5	25								

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Metals

(205A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
5/26/2010	XX	GW205A16D	0.005 U	150		1.2	25	0.82	3.5	28							
5/26/2010	XD	GWDP2X160	0.005 U	120		1.2	24	0.81	3.3	28							
8/3/2010	XX	GW205A18E	0.005 U	100		0.82	24	0.8	3.5	28							
10/13/2010	XX	GW205A1A2	0.005 U	69		0.44	16	0.59	1.8	21							
5/17/2011	XX	GW205A1E1	0.005 U	110		0.4	25	1	3.6	23							
8/9/2011	XX	GW205A1FC	0.0016 U	73		0.86	17	0.75	2.3	20							
11/3/2011	XX	GW205A1H3	0.0016 U	85		0.79	22	0.79	3.4	25							
5/16/2012	XX	GW205A1IH	0.005 U	73		0.23	16	0.99	3.2	23							
8/16/2012	XX	GW205A20A	0.0079	80		1.1	18	1.2	3.5	25							
10/30/2012	XX	GW205A224	0.0057	78		0.88	17	0.9	3.6	22							
5/20/2013	XX	GW205A23I	0.005 U	64		0.18	13	0.75	2.9	20							
7/23/2013	XX	GW205A25C	0.005 U	72		0.68	15	1.2	3.4	21							
10/2/2013	XX	GW205A276	0.0094	57		1.7	12	1	2.5	19							
6/3/2014	XX	GW205A290	0.008 U	55.8		0.388	12	1.09	1.62	19.5							
8/19/2014	XX	GW205A2AE	0.012	70.8		0.821	13.9	1.09	1.8	22.1							
11/12/2014	XX	GW205A2C8	0.008	63.8		0.706	13.8	0.976	1.8	20.8							
6/2/2015	XX	GW205A2E4	0.008 U	61.9		0.385	13.8	0.734	1.71	20.7							
9/2/2015	XX	GW205A2FJ	0.008 U	64.2		0.366	13.5	1.16	1.74	21.9							
11/3/2015	XX	GW205A2HD	0.008 U	64.4		0.418	13.8	0.738	1.86	21.7							
6/14/2016	XX	GW205A313	0.008 U	68.6		0.168	15.1	0.807	2	24.6							
9/21/2016	XX	GW205A32H	0.008 U	60.3		0.449	13.5	1.1	2	22.4							
11/9/2016	XX	GW205A34B	0.008	66.2		0.715	13.2	0.97	2.1	23.6							
6/13/2017	XX	GW205A366	0.008 U	65.6		0.162	13.7	0.302	1.81	21.2							
8/30/2017	XX	GW205A380	0.008 U	68		0.175	14.3	1.28	1.9	22.4							
11/16/2017	XX	GW205A39E	0.008 U	63.6		0.378	13.2	0.816	1.9	21.9							
6/19/2018	XX	GW205A3B9	0.008 U	65.7		0.1 U	15.5	0.214	2.06	22.7							
8/14/2018	XX	GW205A3DI	0.008 U	62.7		0.119	13	0.631	1.82	22							
11/27/2018	XX	GW205A3EH	0.008 U	60.6		0.1 U	11.7	0.258	1.88	20.4							
6/4/2019	XX	GW205A3GC	0.008 U	64.7		0.1 U	13.6	0.16	1.82	21.5							
8/13/2019	XX	GW205A3J1	0.008 U	62.3		0.112	14.4	0.913	1.84	22.1							
10/23/2019	XX	GW205A400	0.008 U	63.3		0.138	13.1	0.911	1.98	22.1							
6/16/2020	XX	GW205A41F	0.008 U	65.3		0.108	13.6	0.247	1.9	23							
8/5/2020	XX	GW205A444	0.008 U	66.5		0.168	14.3	0.802	1.9	22.3							
10/20/2020	XX	GW205A453	0.008 U	64.5		0.387	13.2	0.989	1.93	21.5							
6/23/2021	XX	GW205A46I	0.008 U	65.1		0.202	13.4	0.197	1.9	21.9							
9/22/2021	XX	GW205A48D	0.008 U	55.7		0.217	12.2	0.785	1.85	20.3							
205B																	
4/27/2000	XX	205BXX36643				0.02 U		0.756	0.97	11.06							
8/2/2000	XX	205BXX36740				0.231		1.39	1.03	9.11							
10/25/2000	XX	205BXX36824	0.008 U			0.377		2.36	0.96	9.4							
5/9/2001	XX	205BXX37020	0.008 U			0.623		0.68	1.49	20							
7/25/2001	XX	205BXX37097	0.008 U			0.35		2.75	1.15	9.6							
10/17/2001	XX	205BXX37181	0.01 U			0.363		5.66	1.45	11.6							
5/15/2002	XX	205BXX37391	0.01 U	111.8		0.607	36.7	0.89	2.047	21.4							
8/1/2002	XX	205BXX37469	0.021	88.2	0.01 U	0.553	44.6	6.3	1.56	10.7							
10/16/2002	XX	205BXX37545	0.01 U	116.1	0.011	0.63	60.9	9.33	1.78	10.5							
10/16/2002	XD	205BXX37468			0.01 U												
6/19/2003	XX	205BXX37791	0.005 U	110	0.003 U	0.41	40	3	1.9	12							
8/19/2003	XX	205BXX37852	0.005 U	76	0.011	0.47	35	5.3	1.8	9.5							

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Metals

(205B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
10/9/2003	XX	205BXX37903	0.005 U	79	0.003 U	0.36	34	5.3	1.7	10							
4/27/2004	XX	205BXX38104	0.005 U	67	0.0032	0.26	22	1.9	1.8	11							
8/12/2004	XX	205BXX38211	0.005 U	50	0.003 U	0.2	22	3.1	1.2	7.4							
10/14/2004	XX	205BXX38274	0.005 U	54	0.0058	0.3	24	3.3	1.3	7.3							
5/17/2005	XX	GW205B00C	0.005 U	110	0.003 U	0.22	30	0.65	1.8	16							
8/4/2005	XX	GW205B024	0.005 U	46	0.003	0.16	13	1.1	1.4	7.1							
10/27/2005	XX	GW205B03G	0.005 U	140	0.003 U	0.47	36	0.82	2.4	27							
5/9/2006	XX	GW205B08C	0.005 U	97	0.003 U	0.11	22	0.41	1.8	15							
7/25/2006	XX	GW205B070	0.005 U	49	0.003 U	0.08 B	11	0.13	1.2	7.4							
10/19/2006	XX	GW205B058	0.005 U	26	0.003 U	0.11	9.8	1	1 U	4.8							
5/14/2007	XX	GW205B0A4	0.009	86		0.091	22	0.21	2.1	17							
8/16/2007	XX	GW205B0BH	0.005 U	68		0.14	18	0.58	1.8	12							
10/25/2007	XX	GW205B0D9	0.005 U	57		0.1	15	0.61	1.3	9.2							
5/27/2008	XX	GW205B0FH	0.005 U	66		0.2	16	0.31	1.4	12							
5/27/2008	XD	GWDP2X0F3	0.005 U	63		0.18	16	0.2	1.4	12							
8/12/2008	XX	GW205B0HH	0.005 U	79		0.2	20	0.15	1.8	16							
10/16/2008	XX	GW205B0J5	0.005 U	46		0.09	12	0.2	1	8							
5/4/2009	XX	GW205B115	0.005 U	96		0.16	17	0.24	1.9	12							
8/5/2009	XX	GW205B135	0.005 U	120		0.15	17	0.14	1.7	14							
10/20/2009	XX	GW205B14D	0.005 U	35		0.062	8.8	0.19	1.2	6.1							
10/20/2009	XD	GWDP1X15E	0.005 U	36		0.071	9.1	0.19	1.3	6.3							
5/26/2010	XX	GW205B16E	0.005 U	63		0.043	11	0.065	1.6	7.5							
8/3/2010	XX	GW205B18F	0.005 U	53		0.034	11	0.19	1.6	7.4							
8/3/2010	XD	GWDP1X180	0.005 U	47		0.028	10	0.16	1.6	7.3							
10/13/2010	XX	GW205B1A3	0.005 U	33		0.096	9.6	0.66	1.1	5.9							
5/17/2011	XX	GW205B1E2	0.005 U	54		0.16	13	0.11	1.8	9.6							
8/9/2011	XX	GW205B1FD	0.0016 U	27		0.11	7.3	0.23	1.2	4.4							
11/3/2011	XX	GW205B1H4	0.0016 U	31		0.02	7.8	0.15	1.1	5.6							
5/16/2012	XX	GW205B1I1	0.005 U	33		0.01 U	8.4	0.069	1.2	5.9							
8/16/2012	XX	GW205B20B	0.005 U	29		0.01 U	7.4	0.15	1.3	4.7							
10/30/2012	XX	GW205B225	0.005 U	54		0.032	13	0.31	2.2	9.4							
5/20/2013	XX	GW205B23J	0.005 U	30		0.063	6.8	0.3	1	4.2							
7/23/2013	XX	GW205B25D	0.005 U	35		0.027	7.7	0.13	1.4	5.3							
10/2/2013	XX	GW205B277	0.005 U	31		0.024	7.8	0.35	1.2	4.8							
6/3/2014	XX	GW205B291	0.008 U	55.6		0.1 U	13.4	0.451	1.19	8.2							
8/19/2014	XX	GW205B2AF	0.008 U	37.9		0.27	8.2	1.07	1 U	4.49							
11/12/2014	XX	GW205B2C9	0.008 U	44.2		0.1 U	11.5	0.305	1.19	6.55							
6/2/2015	XX	GW205B2E5	0.008 U	34.1		0.1 U	8.45	0.228	1 U	5.01							
9/2/2015	XX	GW205B2G0	0.008 U	29.4		0.1 U	8.39	0.534	1 U	4.21							
11/3/2015	XX	GW205B2HE	0.008 U	43.6		0.1 U	10.8	0.201	1.19	6.48							
6/14/2016	XX	GW205B314	0.008 U	33.2		0.1 U	7.57	0.127	1	4.57							
9/21/2016	XX	GW205B32I	0.008 U	23.8		0.164	6.86	0.737	1	4.47							
11/9/2016	XX	GW205B34C	0.008 U	25.8		0.179	6.98	0.94	1	3.84							
6/13/2017	XX	GW205B367	0.008 U	48.4		0.1 U	10.9	0.227	1.18	6.93							
8/30/2017	XX	GW205B381	0.008 U	30.1		0.1 U	6.89	0.232	1 U	4.09							
11/16/2017	XX	GW205B39F	0.008 U	48.2		0.1 U	11	0.145	1.3	6.46							
6/19/2018	XX	GW205B3BA	0.008 U	38.2		0.1 U	9.57	0.137	1.17	5.1							
8/14/2018	XX	GW205B3DJ	0.008 U	34		0.1 U	7.76	0.126	1 U	4.1							
11/27/2018	XX	GW205B3EI	0.008 U	50		0.1 U	11	0.0761	1.28	6.17							
6/4/2019	XX	GW205B3GD	0.008 U	58.5		0.1 U	13.5	0.14	1.24	9.01							

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Metals

(205B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
8/13/2019	XX	GW205B3J2	0.008 U	27.3		0.1 U	6.88	0.0924	1 U	3.64						
10/23/2019	XX	GW205B401	0.008 U	43		0.1 U	9.89	0.205	1.16	4.93						
6/16/2020	XX	GW205B41G	0.008 U	39		0.1 U	8.72	0.118	1 U	4.4						
8/5/2020	XX	GW205B445	0.008 U	34.2		0.1 U	8.02	0.26	1.02	3.96						
10/20/2020	XX	GW205B454	0.008 U	27.4		0.142	7.04	0.479	1.09	3.73						
6/23/2021	XX	GW205B46J	0.008 U	37.1		0.174	7.89	0.443	1.04	4.14						
9/22/2021	XX	GW205B48E	0.008 U	37.4		0.1 U	9.91	0.21	1.15	4.21						
206A																
4/27/2000	XX	206AXX36643				8.51		3.92	49.8	23.2						
8/2/2000	XX	206AXX36740				29.14		7.66	103.5	52.47						
10/25/2000	XX	206AXX36824	0.236			28.38		6.92	116	58.7						
5/8/2001	XX	206AXX37019	0.176			21.58		5.1	83.8	39.7						
7/25/2001	XX	206AXX37097	0.237			37.5		7.95	119.3	56.9						
10/17/2001	XX	206AXX37181	0.267			35.92		5.64	110.6	58.2						
5/16/2002	XX	206AXX37392	0.051	88.6		15.64	144.8	7.88	70.1	34.4						
8/1/2002	XX	206AXX37469	0.19	107.6	0.01 U	31.32	215.8	6.98	90.2	48.8						
10/17/2002	XX	206AXX37546	0.45	121.6	0.01 U	40.36	275.2	6.22	115.2	57.6						
6/19/2003	XX	206AXX37791	0.24	88	0.003 U	25	190	6	81	44						
8/18/2003	XX	206AXX37851	0.22	92	0.012	27	190	6.5	79	45						
10/13/2003	XX	206AXX37907	0.21	89	0.003 U	24	180	5.2	84	44						
4/29/2004	XX	206AXX38106	0.2	89	0.003 U	27	220	6.7	91	41						
8/16/2004	XX	206AXX38215	0.18	120	0.0037	42	250	7.9	110	53						
10/12/2004	XX	206AXX38272	0.25	120	0.003 U	37	250	6.7	96	49						
5/17/2005	XX	GW206A00D	0.17	88	0.003 U	31	190	6	84	36						
8/15/2005	XX	GW206A025	0.25	120	0.003 U	37	230	7.9	110	51						
10/24/2005	XX	GW206A03H	0.26	110	0.003 U	33	210	6.6	86	48						
5/11/2006	XX	GW206A08D	0.21	130	0.003 U	32	290	8.4	110	51						
7/26/2006	XX	GW206A071	0.2	100	0.003 U	35 B	120	9	100	39						
10/23/2006	XX	GW206A059	0.24	92	0.003 U	34 B	190	6	90	38						
5/14/2007	XX	GW206A0A5	0.2	94		33	180	6.6	170	41						
5/14/2007	XD	GWDP2X0EB	0.19	92		31	170	6.3	100	39						
8/16/2007	XX	GW206A0BI	0.25	47		16	86	2.9	35	16						
10/29/2007	XX	GW206A0DA	0.26	140		48	270	8.2	120	49						
5/27/2008	XX	GW206A0FI	0.19	110		33	180	8.3	100	39						
5/27/2008	XD	GWDP1X0F2	0.18	91		30	170	7.5	88	34						
8/13/2008	XX	GW206A0HI	0.17	85		29	140	5.6	76	30						
10/20/2008	XX	GW206A0J6	0.23	100		38	170	8.4	93	36						
5/5/2009	XX	GW206A116	0.17	99		33	160	6.3	92	30						
8/6/2009	XX	GW206A136	0.16	110		48	230	7.5	110	26						
8/6/2009	XD	GWDP2X12B	0.15	140		38	230	8.9	130	24						
10/21/2009	XX	GW206A14E	0.23	99		36	160	5.8	91	34						
5/27/2010	XX	GW206A16F	0.12	85		29	120	7.2	82	26						
8/3/2010	XX	GW206A18G	0.28	110		39	180	6.2	82	34						
10/13/2010	XX	GW206A1A4	0.18	65		26	110	3.9	66	24						
10/13/2010	XD	GWDP1X1B4	0.2	71		28	120	4.2	71	23						
5/17/2011	XX	GW206A1E3	0.12	70		21	110	4.1	58	20						
8/9/2011	XX	GW206A1FE	0.25	110		45	180	6.2	98	37						
11/3/2011	XX	GW206A1H5	0.24	85		31	140	4	89	30						
5/16/2012	XX	GW206A1J	0.18	72		28	120	4.2	72	24						

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Metals

(206A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
8/15/2012	XX	GW206A20C	0.25	98		37	170	5.5	81	34							
10/30/2012	XX	GW206A226	0.21	93		27	140	4	86	30							
5/20/2013	XX	GW206A240	0.19	82		32	130	3.9	70	25							
7/23/2013	XX	GW206A25E	0.19	73		27	100	3.5	68	24							
10/2/2013	XX	GW206A278	0.27	97		38	150	4.1	77	28							
6/3/2014	XX	GW206A292	0.062	54.9		15.8	79.7	2.04	66.5	19.3							
8/20/2014	XX	GW206A2AG	0.333	126		44.4	177	4.69	97.7	35.6							
11/11/2014	XX	GW206A2CA	0.039	17.2		2.84	15.6	0.52	14	4.28							
6/2/2015	XX	GW206A2E6	0.224	82.6		30	132	3.3	82.5	26.5							
9/2/2015	XX	GW206A2G1	0.302	122		44.1	190	4.08	108	38.3							
11/3/2015	XX	GW206A2HF	0.059	38.6		7.09	51.1	1.6	47.6	13.8							
6/15/2016	XX	GW206A315	0.231	93.4		39.5	136	4.03	81.4	25.8							
9/21/2016	XX	GW206A32J	0.324	121		47.6	193	4.72	103	37.5							
11/9/2016	XX	GW206A34D	0.323	146		52.2	212	5.4	132	51.2							
6/13/2017	XX	GW206A368	0.177	89.6		29.9	135	3.69	81.9	26.5							
8/30/2017	XX	GW206A382	0.308	124		44.9	188	4.75	100	37.7							
11/15/2017	XX	GW206A39G	0.291	129		41.8	218	3.97	115	42.8							
6/19/2018	XX	GW206A3BB	0.252	91.3		35.8	154	4.08	82.5	26.9							
8/14/2018	XX	GW206A3E0	0.251	120		43	179	4.33	99.8	35.2							
11/27/2018	XX	GW206A3EJ	0.177	91.7		26.1	133	2.67	92.6	30.8							
6/4/2019	XX	GW206A3GE	0.122	70.5		19.6	106	2.62	66.2	20.1							
8/13/2019	XX	GW206A3J3	0.309	111		45.4	179	3.95	101	33.9							
10/23/2019	XX	GW206A402	0.316	147		49.2	232	4.19	129	44.3							
6/16/2020	XX	GW206A41H	0.286	92		40.4	127	3.34	90.4	25.8							
8/5/2020	XX	GW206A446	0.303	112		43.7	159	3.89	105	32.4							
10/20/2020	XX	GW206A455	0.273	146		52.3	226	4.7	128	44.2							
6/23/2021	XX	GW206A470	0.27	119		42.8	161	3.85	104	33.6							
9/22/2021	XX	GW206A48F	0.307	135		46.6	212	4.37	119	41.8							
206B																	
4/27/2000	XX	206BXX36643				0.02 U		0.12	3.18	2.42							
8/2/2000	XX	206BXX36740				D		D	D	D							
10/25/2000	XX	206BXX36824				D		D	D	D							
5/8/2001	XX	206BXX37019	0.008 U			0.171		0.01	3.03	1.9							
7/25/2001	XX	206BXX37097	D			D		D	D	D							
10/17/2001	XX	206BXX37181	D			D		D	D	D							
5/16/2002	XX	206BXX37392	0.01 U	6.1		0.166	7.9	0.03	3.964	4.2							
7/29/2002	XX	206BXX37466	D	D		D	D	D	D	D							
10/15/2002	XX	206BXX37544	D	D		D	D	D	D	D							
6/17/2003	XX	206BXX37789	0.005 U	16		0.24	12	0.03	5.4	4.4							
8/18/2003	XX	206BXX37851	0.005 U	13		0.22	8.6	0.04	4	3.9							
10/13/2003	XX	206BXX37907	0.005 U	9.2		0.087	5.6	0.018	3.8	3.5							
4/29/2004	XX	206BXX38106	0.005 U	17		0.082	11	0.011	4.6	3.3							
8/16/2004	XX	206BXX38215	D	D		D	D	D	D	D							
10/12/2004	XX	206BXX38272	D	D		D	D	D	D	D							
5/17/2005	XX	GW206B00E	0.005 U	13		0.04	8.8	0.01 U	3.9	2.9							
8/15/2005	XX	GW206B026	D	D		D	D	D	D	D							
10/24/2005	XX	GW206B031	0.005 U	8.4		0.08	2.7	0.01	3.9	4							
5/11/2006	XX	GW206B08E	0.005 U	14		0.03	8.1	0.01	5	2.5							
7/26/2006	XX	GW206B072	0.005 U	16		1.5 B	9.4	0.06	6.1	2.6							

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Metals

(206B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
10/23/2006	XX	GW206B05A	0.005 U	9.7		0.07	3.1	0.01	4	2.4						
5/14/2007	XX	GW206B0A6	0.005 U	17		0.34	9.7	0.022	6.4	3.1						
8/16/2007	XX	GW206B0BJ	D	D		D	D	D	D	D						
10/29/2007	XX	GW206B0DB	D	D		D	D	D	D	D						
5/27/2008	XX	GW206B0FJ	D	D		D	D	D	D	D						
8/13/2008	XX	GW206B0HJ	0.005 U	17		0.06	8.7	0.02	7	2.8						
10/20/2008	XX	GW206B0J7	D	D		D	D	D	D	D						
5/5/2009	XX	GW206B117	0.005 U	17		0.09	8.4	0.013	5.7	2.5						
8/6/2009	XX	GW206B137	0.005 U	15		0.039	7	0.01 U	5.8	2.2						
10/21/2009	XX	GW206B14F	0.005 U	19		0.29	9.1	0.062	7.5	2.8						
5/27/2010	XX	GW206B16G	D	D		D	D	D	D	D						
8/3/2010	XX	GW206B18H	D	D		D	D	D	D	D						
10/13/2010	XX	GW206B1A5	0.005 U	10		0.54	2.6	0.065	4.7	1.1						
5/17/2011	XX	GW206B1E4	0.005 U	9		0.02	1.4	0.01 U	3.6	1.3						
8/9/2011	XX	GW206B1FF	D	D		D	D	D	D	D						
11/4/2011	XX	GW206B1H6	0.0016 U	16		0.032	6.6	0.013	6.1	2.1						
5/16/2012	XX	GW206B1J0	0.005 U	12		0.014	3.1	0.01 U	4	1.7						
8/15/2012	XX	GW206B20D	I	I		I	I	I	I	I						
10/30/2012	XX	GW206B227	0.005 U	15		0.064	4.3	0.036	5.2	1.8						
5/20/2013	XX	GW206B241	0.005 U	8.6		0.18	3.3	0.03	3	1 U						
7/24/2013	XX	GW206B25F	0.005 U	15		0.41	5.9	0.051	5.6	1.6						
10/2/2013	XX	GW206B279	0.005 U	14		0.41	5.6	0.05	5.8	1.6						
6/3/2014	XX	GW206B293	0.008 U	18.3		0.174	7.33	0.0144	5.85	1.97						
8/20/2014	XX	GW206B2AH	D	D		D	D	D	D	D						
11/11/2014	XX	GW206B2CB	0.008 U	7.48		0.243	1.69	0.0178	3.5	2.45						
6/2/2015	XX	GW206B2E7	0.008 U	9.95		0.439	2.64	0.036	3.32	1.05						
9/2/2015	XX	GW206B2G2	I	I		I	I	I	I	I						
11/3/2015	XX	GW206B2HG	0.008 U	10		0.1 U	2	0.015	3.73	2.34						
6/15/2016	XX	GW206B316	0.008 U	14		0.362	5.69	0.042	5.2	1.51						
9/21/2016	XX	GW206B330	D	D		D	D	D	D	D						
11/9/2016	XX	GW206B34E	D	D		D	D	D	D	D						
6/13/2017	XX	GW206B369	0.008 U	13.4		0.1 U	4.51	0.009	4.73	1.55						
8/30/2017	XX	GW206B383	I	I		I	I	I	I	I						
11/15/2017	XX	GW206B39H	0.008 U	18.5		0.35	7.06	0.0368	6.5	2.1						
6/19/2018	XX	GW206B3BC	0.008 U	16.3		0.374	6.89	0.0924	5.51	1.9						
8/14/2018	XX	GW206B3E1	I	I		I	I	I	I	I						
11/27/2018	XX	GW206B3F0	0.008 U	10.5		0.192	2.03	0.0161	3.56	1.42						
6/4/2019	XX	GW206B3GF	0.008 U	14.4		0.1 U	4.12	0.0182	4.2	1.54						
8/13/2019	XX	GW206B3J4	0.008 U	15.3		2.43	6.24	0.194	5.56	1.93						
10/23/2019	XX	GW206B403	D	D		D	D	D	D	D						
6/16/2020	XX	GW206B411	0.008 U	18.6		1.61	6.84	0.102	5.75	2.66						
8/5/2020	XX	GW206B447	I	I		I	I	I	I	I						
10/22/2020	XX	GW206B456	D	D		D	D	D	D	D						
6/23/2021	XX	GW206B471	0.008 U	20		1.18	7.18	0.135	6.22	2.21						
9/22/2021	XX	GW206B48G	D	D		D	D	D	D	D						
301																
5/3/2000	XX	301XX36649				0.02 U		0.128	0.98	5.93						
8/9/2000	XX	301XX36747				0.051		0.38	1.29	6.94						
11/8/2000	XX	301XX36838	0.008 U			0.049		0.21	1.07	6.4						

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Metals

(301)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
5/16/2001	XX	301XX37027	0.008 U			0.02 U		0.77	1.19	8.2							
7/31/2001	XX	301XX37103	0.008 U			0.037		0.77	1.18	8.5							
10/23/2001	XX	301XX37187	0.008 U			0.02 U		0.94	1.66	11							
5/21/2002	XX	301XX37397	0.01 U	41.9		0.043	9	0.93	1.449	10.6							
8/2/2002	XX	301XX37470	0.01 U	44.1	0.01 U	0.038	9.1	0.7	1.45	10.7							
10/23/2002	XX	301XX37552	0.01 U	67.7	0.01 U	0.047	9	0.63	1.83	10.1							
6/24/2003	XX	301XX37796	0.005 U	110	0.003 U	0.042	11	0.74	1.7	11							
8/12/2003	XX	301XX37845	0.005 U	110	0.009	0.03	11	0.4	1.9	12							
10/16/2003	XX	301XX37910	0.005 U	110	0.003 U	0.089	11	0.43	1.9	12							
5/5/2004	XX	301XX38112	0.005 U	120	0.003 U	0.029	13	0.21	2.2	15							
8/9/2004	XX	301XX38208	0.005 U	110	0.0043	0.041	12	0.034	1.9	14							
10/20/2004	XX	301XX38280	0.005 U	110	0.003 U	0.048	13	0.64	2.3	18							
5/11/2005	XX	GW301X00F	0.005 U	120	0.003	0.1	14	0.47	1.7	16							
7/27/2005	XX	GW301X027	0.005 U	140	0.003 U	0.05	14	0.47	2.4	19							
11/7/2005	XX	GW301X03J	0.005 U	150	0.003 U	0.03	14	0.32	2.8	18							
5/1/2006	XX	GW301X08F	0.005 U	150	0.006 B	0.03	18	0.72	2.1	24							
7/31/2006	XX	GW301X073	0.005 U	170	0.007 B	0.05 B	18	0.78	3.6	29							
10/26/2006	XX	GW301X05B	0.005 U	130	0.003 U	0.05 B	17	0.52	3.5	26							
5/9/2007	XX	GW301X0A7	0.005 U	170		0.09	18	0.67	2.5	26							
8/9/2007	XX	GW301X0C0	0.005 U	190		0.087	20	0.68	3.9	31							
10/30/2007	XX	GW301X0DC	0.005 U	220		0.076	29	0.85	2.5	31							
10/30/2007	XD	GWDP3X0F0	0.005 U	220		0.066	29	0.84	2.5	30							
6/3/2008	XX	GW301X0G0	0.005 U	220		0.17	30	1.1	4.5	29							
8/14/2008	XX	GW301X0I0	0.005 U	190		0.1	22	0.82	2.3	25							
8/14/2008	XD	GWDP3X0H4	0.005 U	210		0.11	24	0.86	2.5	27							
10/21/2008	XX	GW301X0J8	0.005 U	270		0.2	27	1.1	4.4	27							
5/11/2009	XX	GW301X118	0.005 U	260		0.4	28	1.2	2.2	28							
8/10/2009	XX	GW301X138	0.005 U	320		0.2	26	0.85	2.4	27							
10/22/2009	XX	GW301X14G	0.005 U	230		0.15	28	0.83	4.2	29							
10/22/2009	XD	GWDP3X15G	0.005 U	280		0.15	27	0.83	4.1	28							
6/1/2010	XX	GW301X16H	0.005 U	240		0.22	28	0.56	3.9	28							
8/5/2010	XX	GW301X18I	0.005 U	260		0.11	28	0.55	4.2	28							
10/18/2010	XX	GW301X1A6	0.005 U	200		0.43	29	0.92	2.8	30							
5/18/2011	XX	GW301X1D9	0.005 U	230		0.13	34	0.56	4.1	28							
8/9/2011	XX	GW301X1F0	0.0016 U	240		0.093	32	0.55	4.1	30							
11/2/2011	XX	GW301X1GB	0.0016 U	210		0.24	32	0.53	4.6	30							
5/15/2012	XX	GW301X1I5	0.005 U	220		0.26	32	0.48	4.4	27							
8/14/2012	XX	GW301X1JL	0.005 U	200		0.14	29	0.4	4.4	30							
10/30/2012	XX	GW301X21C	0.005 U	260		0.15	34	0.43	5.4	31							
5/22/2013	XX	GW301X236	0.005 U	240		0.24	34	0.49	4.5	27							
7/25/2013	XX	GW301X250	0.005 U	260		0.54	40	0.95	5.8	37							
10/1/2013	XX	GW301X26E	0.005 U	240		0.83	35	0.47	4.6	31							
6/4/2014	XX	GW301X288	0.008 U	290		0.565	47.9	1.1	2.74	40							
8/20/2014	XX	GW301X2A2	0.008 U	321		0.423	49.9	0.91	3.14	45.1							
11/11/2014	XX	GW301X2BG	0.008 U	270		0.179	43.3	0.496	2.98	38.7							
6/3/2015	XX	GW301X2DC	0.008 U	276		0.209	45.7	0.572	2.55	37.5							
9/1/2015	XX	GW301X2F7	0.008 U	318		0.216	57.4	0.692	3.33	56.7							
11/4/2015	XX	GW301X2H1	0.008 U	292		0.137	49.2	0.521	3.1	44.4							
6/15/2016	XX	GW301X30B	0.008 U	290		0.101	55.8	0.625	2.8	51.4							
9/20/2016	XX	GW301X325	0.008 U	290		0.136	59.8	0.58	3	60.7							

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Metals

(301)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
11/10/2016	XX	GW301X33J	0.008 U	296		0.302	64.6	0.761	3.1	62.9						
6/14/2017	XX	GW301X35E	0.008 U	328		0.161	64.4	0.48	3.2	60.8						
8/29/2017	XX	GW301X378	0.008 U	305		0.1 U	61.8	0.481	3.19	65.5						
11/14/2017	XX	GW301X392	0.008 U	286		0.1 U	57	0.306	3	58.6						
6/19/2018	XX	GW301X3AH	0.008 U	268		0.161	73.8	0.57	2.86	65.4						
8/14/2018	XX	GW301X3D6	0.008 U	297		0.163	66.6	0.468	3.08	67.3						
11/28/2018	XX	GW301X3E5	0.008 U	313		0.349	64.6	0.35	3.18	64.4						
6/5/2019	XX	GW301X3G0	0.008 U	288		0.197	77.8	0.709	2.85	72.6						
8/13/2019	XX	GW301X3I9	0.008 U	269		0.106	79.4	0.597	3.2	82.3						
10/23/2019	XX	GW301X3J8	0.008 U	282		0.166	77	0.631	3.2	80.8						
6/16/2020	XX	GW301X413	0.008 U	277		0.106	70.9	0.552	2.77	74.6						
8/4/2020	XX	GW301X43C	0.008 U			0.1 U	75.9	0.581	3.05	81.2						
8/4/2020	XX	GW301X43CR		274												
10/21/2020	XX	GW301X44B	0.008 U	301		0.114	79.9	0.51	3.42	80.9						
6/22/2021	XX	GW301X466	0.008 U	259		0.143	79.9	0.685	2.92	77.6						
9/22/2021	XX	GW301X481	0.008 U	255		0.17	75	0.55	3.12	77.8						
302B																
5/3/2000	XX	302BXX36649				0.02 U		1.118	1.16	7.03						
8/9/2000	XX	302BXX36747				0.069		1.87	1.41	7.07						
11/8/2000	XX	302BXX36838	0.008 U			0.202		1.54	1.3	6.5						
5/16/2001	XX	302BXX37027	0.008 U			0.021		1.88	1.24	7.1						
7/31/2001	XX	302BXX37103	0.008 U			0.039		1.42	1.54	7.5						
10/23/2001	XX	302BXX37187	0.008 U			0.149		1.15	1.53	7.3						
5/21/2002	XX	302BXX37397	0.01 U	92		0.039	7.3	3.32	1.48	11.3						
8/7/2002	XX	302BXX37475	0.01 U	100.8	0.01 U	0.02 U	8.9	2.68	1.45	9.7						
10/23/2002	XX	302BXX37552	0.012	82.2	0.01 U	0.063	9.8	1.36	1.63	8.1						
6/23/2003	XX	302BXX37795	0.005 U	160	0.003 U	0.012	14	4.7	2.2	18						
8/12/2003	XX	302BXX37845	0.005 U	130	0.02	0.034	11	3.7	1.8	13						
10/20/2003	XX	302BXX37914	0.005 U	160	0.007	0.021	15	4.8	2.4	22						
5/4/2004	XX	302BXX38111	0.005 U	180	0.0035	0.036	21	6.2	3.8	26						
8/5/2004	XX	302BXX38204	0.005 U	160	0.0044	0.064	14	9.5	2.3	19						
10/20/2004	XX	302BXX38280	0.005 U	170	0.003 U	0.028	16	4.1	2.8	20						
5/11/2005	XX	GW302B00G	0.005 U	170	0.004	0.02	17	8.1	2	25						
7/27/2005	XX	GW302B028	0.005 U	200	0.003 U	0.01	17	6.3	2.7	26						
11/7/2005	XX	GW302B040	0.005 U	180	0.003 U	0.13	17	7.8	3.4	26						
5/1/2006	XX	GW302B08G	0.005 U	220	0.009 B	0.02	21	9.7	2.2	34						
7/31/2006	XX	GW302B074	0.005 U	210	0.006 B	0.03 B	26	11	3.7	35						
10/25/2006	XX	GW302B05C	0.005 U	220	0.003 U	0.02	18	9	3.1	27						
5/9/2007	XX	GW302B0A8	0.005 U	180		0.017	19	7.4	2.8	38						
8/9/2007	XX	GW302B0C1	0.005 U	190		0.031	19	1.6	3.7	31						
10/30/2007	XX	GW302B0DD	0.005 U	220		0.03	19	11	2	29						
6/2/2008	XX	GW302B0G1	0.005 U	170		0.019	25	13	3.7	31						
8/14/2008	XX	GW302B0I1	0.005 U	190		0.02	23	14	2	34						
10/21/2008	XX	GW302B0J9	0.005 U	220		0.03	22	16	3.2	27						
10/21/2008	XD	GWDP3X108	0.005 U	230		0.02	22	16	3.3	28						
5/11/2009	XX	GW302B119	0.005 U	230		0.21	36	24	1.8	39						
8/10/2009	XX	GW302B139	0.005 U	230		0.019	23	16	1.7	31						
8/10/2009	XD	GWDP3X12C	0.005 U	230		0.012	25	17	3.2	35						
10/22/2009	XX	GW302B14H	0.005 U	170		0.014	23	9.2	3.3	29						

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Metals

(302B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
6/1/2010	XX	GW302B16I	0.005 U	200		0.011	26	15	3.2	31						
8/4/2010	XX	GW302B18J	0.005 U	190		0.013	23	13	3.1	30						
10/14/2010	XX	GW302B1A7	0.005 U	160		0.033	21	13	2	31						
5/18/2011	XX	GW302B1DA	0.005 U	150		0.024	34	17	3.3	38						
8/8/2011	XX	GW302B1F1	0.0016 U	90		0.01	18	14	1.6	20						
11/1/2011	XX	GW302B1GC	0.0016 U	200		0.022	36	20	4.3	43						
5/15/2012	XX	GW302B1I6	0.005 U	190		0.01	39	21	4	40						
8/16/2012	XX	GW302B1JJ	0.005 U	160		0.01 U	34	14	4.2	40						
10/30/2012	XX	GW302B21D	0.005 U	220		0.12	34	20	4.7	42						
5/21/2013	XX	GW302B237	0.005 U	120		0.017	27	16	2.5	27						
7/25/2013	XX	GW302B251	0.005 U	200		0.02	41	22	4.6	43						
10/1/2013	XX	GW302B26F	0.005 U	200		0.015	38	22	4	43						
6/3/2014	XX	GW302B289	0.008 U	193		0.1 U	41.9	22.3	2.01	43.1						
8/20/2014	XX	GW302B2A3	0.008 U	223		0.1 U	38.8	23.8	2.1	42.6						
11/11/2014	XX	GW302B2BH	0.008 U	200		0.1 U	34.8	19.9	2.19	40.7						
6/3/2015	XX	GW302B2DD	0.008 U	206		0.1 U	47.7	27.9	2.16	44						
9/1/2015	XX	GW302B2F8	0.008 U	230		0.1 U	47.4	28.7	2.5	51.3						
11/4/2015	XX	GW302B2H2	0.02 U	224		0.2 U	45.2	25.6	2.51	49.2						
6/15/2016	XX	GW302B30C	0.008 U	220		0.1 U	52.3	30.6	2.7	50.7						
9/21/2016	XX	GW302B326	0.008 U	198		0.1 U	44.3	24.6	2.5	44.5						
11/8/2016	XX	GW302B340	0.008 U	213		0.1 U	42.1	19.7	2.6	43.5						
6/13/2017	XX	GW302B35F	0.008 U	217		0.146	53.6	33.8	2.88	54.6						
8/29/2017	XX	GW302B379	0.008 U	212		0.1 U	46.3	24.6	2.79	50						
11/14/2017	XX	GW302B393	0.008 U	219		0.1 U	46.5	28	2.9	52.6						
6/19/2018	XX	GW302B3AI	0.008 U	203		0.151	60.8	35.6	3.37	55.8						
8/14/2018	XX	GW302B3D7	0.008 U	209		0.1 U	51.5	30.6	3.41	51.1						
11/28/2018	XX	GW302B3E6	0.008 U	224		0.1 U	47.4	27.6	3.4	53.5						
6/5/2019	XX	GW302B3G1	0.008 U	230		0.1 U	63.6	35.5	4.22	61.1						
8/13/2019	XX	GW302B3IA	0.008 U	234		0.1 U	67.7	39.8	5.06	65.2						
10/23/2019	XX	GW302B3J9	0.008 U	247		0.1 U	59.3	37.5	4.85	60.6						
6/17/2020	XX	GW302B414	0.008 U	231		0.1 U	56.1	37	4.2	62.4						
8/5/2020	XX	GW302B43D	0.04 U	610		0.5 U	156	89.5	12.4	152						
10/21/2020	XX	GW302B44C	0.008 U	137		0.1 U	31.5	18.4	2.64	32.4						
6/22/2021	XX	GW302B467	0.008 U	244		0.1 U	68.7	38.4	5.8	64.3						
9/22/2021	XX	GW302B482	0.008 U	254		0.1 U	66.6	38.4	7	69.7						
302C																
5/3/2000	XX	302CXX36649				0.02 U		0.171	1.19	6.98						
8/9/2000	XX	302CXX36747				1.039		0.62	1.6	9.74						
11/8/2000	XX	302CXX36838	0.008 U			0.873		0.51	1.32	7.7						
5/16/2001	XX	302CXX37027	0.008 U			0.534		0.45	1.42	9.9						
7/31/2001	XX	302CXX37103	0.008 U			2.442		1.03	1.51	8.8						
10/23/2001	XX	302CXX37187	0.008 U			1.818		1.01	1.81	9.8						
5/21/2002	XX	302CXX37397	0.01 U	93.3		0.037	9.2	0.59	1.454	11.7						
8/7/2002	XX	302CXX37475	0.01 U	90.4	0.01 U	1.365	13.9	0.97	1.85	16.4						
10/23/2002	XX	302CXX37552	0.012	94.7	0.01 U	1.069	15.3	0.76	2.28	16.1						
6/23/2003	XX	302CXX37795	0.005 U	120	0.004	0.38	18	2.2	2.3	20						
8/12/2003	XX	302CXX37845	0.005 U	170	0.015	0.95	24	2.3	3.4	29						
10/20/2003	XX	302CXX37914	0.005 U	110	0.006	0.26	17	2.7	2.6	23						
5/4/2004	XX	302CXX38111	0.005 U	130	0.0056	0.26	22	4.1	3.5	25						

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Metals

(302C)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
8/5/2004	XX	302CXX38204	0.005 U	240	0.0058	1.2	22	8	2.9	47							
10/20/2004	XX	302CXX38280	0.005 U	140	0.003 U	2.3	18	3.8	2.7	24							
5/11/2005	XX	GW302C00H	0.005 U	120	0.005	0.08	23	5.9	2	28							
7/27/2005	XX	GW302C029	0.005 U	180	0.003 U	1.6	30	8.2	3.2	34							
11/7/2005	XX	GW302C041	0.005 U	150	0.003	0.4	29	9.8	3.5	33							
5/1/2006	XX	GW302C08H	0.005 U	160	0.01 B	0.41	35	13	2.1	38							
7/31/2006	XX	GW302C075	0.005 U	190	0.004 B	1.2 B	34	15	4.4	41							
10/25/2006	XX	GW302C05D	0.005 U	120	0.003 U	0.28	20	11	2.5	38							
5/9/2007	XX	GW302C0A9	0.005 U	130		0.21	30	14	2.7	36							
8/9/2007	XX	GW302C0C2	0.005 U	160		2.3	22	12	3.4	32							
8/9/2007	XD	GWDP3X0EG	0.005 U	160		2.2	21	12	3.5	30							
10/30/2007	XX	GW302C0DE	0.005 U	160		0.86	31	17	2.1	34							
6/2/2008	XX	GW302C0G2	0.005 U	180		1	37	20	4	38							
6/2/2008	XD	GWDP3X0F4	0.005 U	170		1	35	19	3.9	36							
8/14/2008	XX	GW302C0I2	0.005 U	140		0.21	29	18	2	38							
10/21/2008	XX	GW302C0JA	0.005 U	190		1.2	27	22	3.8	33							
5/11/2009	XX	GW302C11A	0.005 U	160		0.21	35	25	1.8	38							
8/10/2009	XX	GW302C13A	0.005 U	140		0.18	32	21	1.9	37							
10/22/2009	XX	GW302C14I	0.005 U	140		0.64	26	19	3.3	30							
6/1/2010	XX	GWXXX17F	0.005 U	210		0.7	31	28	3.2	33							
6/1/2010	XD	GWDP3X161	0.005 U	220		0.72	31	30	3.2	34							
8/4/2010	XX	GW302C190	0.005 U	150		0.83	27	20	3.2	31							
10/14/2010	XX	GW302C1A8	0.005 U	130		0.4	31	19	2	36							
5/18/2011	XX	GW302C1DB	0.005 U	72		0.049	24	11	1.9	23							
5/18/2011	XD	GWXXX1EH	0.005 U	72		0.045	23	11	1.9	22							
8/8/2011	XX	GW302C1F2	0.0016 U	150		0.6	38	25	3	41							
11/1/2011	XX	GW302C1GD	0.0016 U	150		0.17	44	25	4	42							
11/1/2011	XD	GWDP1X1HI	0.0016 U	160		0.19	47	27	4.3	46							
5/15/2012	XX	GW302C1I7	0.005 U	100		0.096	32	18	2.6	26							
5/15/2012	XD	GWDP2X1JD	0.005 U	98		0.11	31	18	2.6	27							
8/16/2012	XX	GW302C200	0.005 U	160		0.68	45	30	4.8	47							
8/16/2012	XD	GWDP2X216	0.005 U	170		0.69	47	30	4.6	50							
10/30/2012	XX	GW302C21E	0.005 U	180		0.03	49	28	5	46							
10/30/2012	XD	GWDP3X231	0.005 U	160		0.32	47	28	4.6	44							
5/21/2013	XX	GW302C238	0.005 U	180		0.42	49	30	4.3	45							
7/25/2013	XX	GW302C252	0.005 U	180		0.56	48	31	5	48							
7/25/2013	XD	GWDP1X267	0.005 U	180		0.51	47	30	5.1	46							
10/1/2013	XX	GW302C26G	0.005 U	170		0.49	47	29	4.3	46							
10/1/2013	XD	GWDP1X281	0.005 U	170		0.49	45	28	4.2	45							
6/3/2014	XX	GW302C28A	0.008 U	173		0.505	49.3	29.9	2.17	44.6							
8/20/2014	XX	GW302C2A4	0.008 U	165		0.702	39.6	28.8	2.26	39							
8/20/2014	XD	GWDP3X2BB	0.008 U	158		0.684	38.1	29.1	2.16	37.5							
11/11/2014	XX	GW302C2BI	0.008 U	155		0.192	50.3	35.8	2.81	45.9							
11/11/2014	XD	GWDP1X2D3	0.008 U	153		0.175	50.3	36.3	2.79	45.7							
6/3/2015	XX	GW302C2DE	0.008 U	159		0.229	57	42	2.69	43.9							
9/1/2015	XX	GW302C2F9	0.008 U	168		0.534	47.7	31.5	2.72	47.3							
9/1/2015	XD	GWDP3X2GG	0.008 U	158		0.488	44.2	29.6	2.6	44.8							
11/4/2015	XX	GW302C2H3	0.02 U	170		0.2 U	58.8	39.2	3.62	51.6							
11/4/2015	XD	GWDP1X2I8	0.02 U	176		0.2 U	60.6	40.4	3.68	54							
6/15/2016	XX	GW302C30D	0.008 U	196		0.606	58.7	36.6	3.1	54							

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Metals

(302C)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
9/21/2016	XD	GWDP3X33E	0.008 U	157		0.724	46.4	32.8	2.8	47.3							
9/21/2016	XX	GW302C327	0.008 U	152		0.705	44.8	33	2.8	45.9							
11/8/2016	XD	GWDP1X356	0.008 U	180		0.752	45.2	37.4	3.6	44.1							
11/8/2016	XX	GW302C341	0.008 U	192		0.796	46.9	40	3.8	44							
6/13/2017	XX	GW302C35G	0.008 U	191		0.444	61	43.6	3.99	56.4							
8/29/2017	XD	GWDP3X38H	0.008 U	169		0.68	48.9	34.6	3.23	51.3							
8/29/2017	XX	GW302C37A	0.008 U	170		0.687	48.9	34.8	3.23	51.6							
11/14/2017	XD	GWDP1X3A9	0.008 U	144		0.242	50.5	37	5.8	48.1							
11/14/2017	XX	GW302C394	0.008 U	150		0.251	52.4	37.8	6	50.1							
6/19/2018	XX	GW302C3AJ	0.008 U	184		0.572	68.8	45.3	5.06	57.6							
8/14/2018	XD	GWDP3X3D1	0.008 U	172		0.575	54.6	36.4	5.56	52.7							
8/14/2018	XX	GW302C3D8	0.008 U	176		0.585	53.3	36	5.72	53.7							
11/28/2018	XD	GWDP1X3FC	0.008 U	191		0.22	71.8	53	10.7	61.8							
11/28/2018	XX	GW302C3E7	0.008 U	188		0.223	69.5	50.5	10.5	60.8							
6/5/2019	XX	GW302C3G2	0.008 U	185		0.167	74	55	11.4	60.7							
8/13/2019	XD	GWDP3X3I4	0.008 U	178		1	62.1	0.01 U	4.25	56.9							
8/13/2019	XX	GW302C3IB	0.008 U	187		1.11	65.2	44.7	4.49	60.1							
10/23/2019	XD	GWDP1X40F	0.008 U	178		0.598	60.1	44.9	8.28	55.2							
10/23/2019	XX	GW302C3JA	0.008 U	173		0.673	55.7	41.3	4.75	51.6							
6/17/2020	XX	GW302C415	0.008 U	208		0.693	68.1	57.5	8.06	65.4							
8/5/2020	XD	GWDP3X437	0.04 U	202		0.99	66	47	6	60							
8/5/2020	XX	GW302C43E	0.04 U	191		0.88	62.5	45.4	7.3	57.5							
10/21/2020	XD	GWDP1X45I	0.008 U	198		0.314	80.5	60.5	19.8	61.6							
10/21/2020	XX	GW302C44D	0.008 U	186		0.306		60.5	18.5	57.1							
10/21/2020	XX	GW302C44DR					62.9										
6/22/2021	XX	GW302C468	0.008 U	243		0.832	89.7	60	10.8	77.6							
9/22/2021	XX	GW302C483	0.008 U	200		0.763	76	52	16.2	69.4							
9/22/2021	XD	GWDP1X498	0.008 U	191		0.658	74.1	52	16.2	67							
303A																	
4/27/2000	XX	303AXX36643				0.071		8.8	38	31.88							
8/2/2000	XX	303AXX36740				0.634		10.06	41.1	29.21							
10/25/2000	XX	303AXX36824	0.008 U			0.579		15.36	54.6	48							
5/9/2001	XX	303AXX37020	0.008 U			0.023		17.73	60.5	54.3							
7/25/2001	XX	303AXX37097	0.008 U			0.942		11.91	47.1	37.8							
10/17/2001	XX	303AXX37181	0.01 U			0.02 U		17.34	67.1	53.1							
5/16/2002	XX	303AXX37392	0.01 U	125.7		0.25	125.1	11.61	50.48	34							
8/1/2002	XX	303AXX37469	0.022	130.4	0.01 U	0.316	97.8	9.36	44.4	30.7							
10/17/2002	XX	303AXX37546	0.01 U	142.6	0.01 U	0.158	123.2	11.67	48.2	32.6							
6/23/2003	XX	303AXX37795	0.005 U	120	0.003	0.42	98	9.7	39	30							
8/19/2003	XX	303AXX37852	0.005 U	140	0.013	0.49	110	11	52	37							
10/14/2003	XX	303AXX37908	0.005 U	180	0.003 U	0.15	130	12	53	42							
5/3/2004	XX	303AXX38110	0.005 U	170	0.003 U	0.84	140	13	56	39							
8/17/2004	XX	303AXX38216	0.005 U	150	0.0036	0.016	150	14	52	37							
10/19/2004	XX	303AXX38279	0.005 U	160	0.0043	0.2	190	16	71	43							
5/18/2005	XX	GW303A00I	0.005 U	150	0.003 U	0.09	160	13	62	40							
8/15/2005	XX	GW303A02A	0.005 U	120	0.003 U	0.26	100	10	57	30							
11/3/2005	XX	GW303A042	0.005 U	140	0.007	0.08	150	14	71	40							
5/11/2006	XX	GW303A08I	0.005 U	110	0.005 B	0.05	100	12	47	26							
7/26/2006	XX	GW303A076	0.005 U	100	0.003 U	0.19 B	94	11	46	26							

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Metals

(303A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
Date	Type	Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
10/24/2006	XX	GW303A05E	0.005 U	96	0.005	0.25 B	97	15	47	26							
5/15/2007	XX	GW303A0AA	0.005 U	100		0.084	100	12	50	36							
8/15/2007	XX	GW303A0C3	0.005 U	94		0.3	75	9.8	34	20							
8/15/2007	XD	GWDP2X0EF	0.005 U	94		0.29	75	9.9	34	20							
10/29/2007	XX	GW303A0DF	0.005 U	140		0.22	160	21	62	36							
6/2/2008	XX	GW303A0G3	0.005 U	100		0.48	96	12	43	28							
8/13/2008	XX	GW303A0I3	0.005 U	73		0.42	63	9.8	35	19							
10/20/2008	XX	GW303A0JB	0.005 U	81		0.56	66	9.9	34	18							
5/5/2009	XX	GW303A11B	0.005 U	130		0.3	110	17	48	24							
8/6/2009	XX	GW303A13B	0.005 U	110		0.39	91	14	34	17							
10/21/2009	XX	GW303A14J	0.005 U	72		0.67	50	8.8	32	17							
5/27/2010	XX	GW303A170	0.005 U	91		0.51	74	12	41	16							
8/4/2010	XX	GW303A191	0.005 U	87		0.35	76	13	40	16							
10/14/2010	XX	GW303A1A9	0.005 U	95		2.3	73	13	33	23							
5/17/2011	XX	GW303A1E5	0.005 U	75		0.89	57	9.4	31	17							
8/9/2011	XX	GW303A1FG	0.0016 U	53		0.062	43	8.2	28	12							
11/3/2011	XX	GW303A1H7	0.0016 U	64		0.023	68	12	33	17							
5/17/2012	XX	GW303A1J1	0.005 U	73		0.013	64	11	32	18							
8/15/2012	XX	GW303A20E	0.005 U	68		0.52	56	9.8	28	15							
11/1/2012	XX	GW303A228	0.005 U	77		0.066	76	15	44	20							
5/21/2013	XX	GW303A242	0.005 U	74		0.43	50	7.9	23	14							
7/24/2013	XX	GW303A25G	0.005 U	61		0.58	40	7.1	27	13							
10/2/2013	XX	GW303A27A	0.005 U	68		0.64	42	7.7	25	12							
6/3/2014	XX	GW303A294	0.008 U	57.3		0.1 U	59.4	9.04	30.6	13.1							
8/20/2014	XX	GW303A2AI	0.008 U	61.4		0.1 U	51	9.04	31.6	11.2							
11/12/2014	XX	GW303A2CC	0.008 U	75.5		0.1 U	78.4	12.5	40.4	17							
6/3/2015	XX	GW303A2E8	0.008 U	47.3		0.1 U	49.5	8.48	29.3	10.8							
9/1/2015	XX	GW303A2G3	0.008 U	45.8		0.1 U	46.3	7.41	31.8	10.6							
11/3/2015	XX	GW303A2HH	0.008 U	60.5		0.1 U	60.8	10.6	36.5	13.9							
6/15/2016	XX	GW303A317	0.008 U	42.1		0.1 U	36.5	6	25.3	8.37							
9/20/2016	XX	GW303A331	0.008 U	50.6		0.1 U	47	9.21	31.9	10.1							
11/8/2016	XX	GW303A34F	0.008 U	74.4		0.121	60.3	11.8	34.8	14.4							
6/13/2017	XX	GW303A36A	0.008 U	47.7		0.1 U	45	7.41	27.9	10.9							
8/30/2017	XX	GW303A384	0.008 U	49.9		0.637	40	6.72	27.6	9.95							
11/15/2017	XX	GW303A39I	0.008 U	75.2		0.554	66.4	11.8	35.6	14.7							
6/20/2018	XX	GW303A3BD	0.008 U	55		0.865	37.5	6.66	28.3	10.4							
8/15/2018	XX	GW303A3E2	0.008 U	46		0.561	36	5.88	25.1	8.54							
11/27/2018	XX	GW303A3F1	0.008 U	92.6		0.56	82.2	13.3	38.4	19.1							
6/4/2019	XX	GW303A3GG	0.008 U	43.8		0.1 U	43	6.83	27.1	9.84							
8/14/2019	XD	GWDP1X3I2	0.008 U	40		0.1 U	34.1	5.58	26.2	8.22							
8/14/2019	XX	GW303A3J5	0.008 U	37.2		0.1 U	31.2	5.11	23.9	7.6							
10/22/2019	XX	GW303A404	0.008 U	50.9		0.1 U	49.2	8.19	31.5	9.56							
6/16/2020	XX	GW303A41J	0.008 U	48.6		0.1 U	47.6	7.47	30.5	10.9							
8/4/2020	XD	GWDP1X435	0.008 U			0.1 U	48.1	7.14	30.6	10.4							
8/4/2020	XD	GWDP1X435R		51.5													
8/4/2020	XX	GW303A448	0.008 U			0.1 U	48.6	7.21	30.5	10.4							
8/4/2020	XX	GW303A448R		51.2													
10/20/2020	XX	GW303A457	0.008 U	72		0.1 U	68.6	11.3	37	13.5							
6/22/2021	XX	GW303A472	0.008 U	52.3		0.109	48.6	7.27	30.5	10.5							
9/21/2021	XX	GW303A48H	0.008 U	60.6		0.376	57	8.56	31.6	11.7							

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Metals

(303B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium								
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L								
Date	Type	Sample ID																
303B																		
4/27/2000	XX	303BXX36643				0.02 U		6.1	23.7	16.36								
8/2/2000	XX	303BXX36740				0.035		11.9	37.3	29.06								
10/25/2000	XX	303BXX36824	0.008 U			0.182		17.96	51.9	59.3								
5/9/2001	XX	303BXX37020	0.008 U			0.03		11.61	41.1	35								
7/25/2001	XX	303BXX37097	0.008 U			0.025		16.44	56.3	37								
10/17/2001	XX	303BXX37181	0.01 U			0.03		19.32	69.3	59.8								
5/16/2002	XX	303BXX37392	0.01 U	77.5		0.027	75.7	9.09	37.06	22.3								
8/2/2002	XX	303BXX37470	0.021	71.1	0.01 U	0.02 U	68.6	9.22	37.2	19.5								
10/17/2002	XX	303BXX37546	0.01 U	144.5	0.01 U	0.041	155	28.06	47.9	41.3								
6/23/2003	XX	303BXX37795	0.005 U	65	0.003 U	0.011	70	6.7	31	19								
8/19/2003	XX	303BXX37852	0.005 U	110	0.014	0.072	120	11	51	37								
10/14/2003	XX	303BXX37908	0.005 U	150	0.003	0.01 U	170	13	56	46								
5/3/2004	XX	303BXX38110	0.005 U	79	0.003	0.06	110	10	46	27								
8/17/2004	XX	303BXX38216	0.005 U	110	0.0051	0.011	170	13	51	35								
10/19/2004	XX	303BXX38279	0.005 U	140	0.0043	0.02	190	13	67	47								
5/18/2005	XX	GW303B00J	0.005 U	55	0.003 U	0.05	10 U	7.2	37	18								
8/15/2005	XX	GW303B02B	0.005 U	54	0.003	0.01 U	68	8.3	44	16								
11/3/2005	XX	GW303B043	0.005 U	110	0.007	0.01	150	13	65	38								
5/11/2006	XX	GW303B08J	0.005 U	76	0.004 B	0.01 U	93	13	39	24								
7/26/2006	XX	GW303B077	0.005 U	58	0.003 U	0.01 B	72	10	37	17								
10/24/2006	XX	GW303B05F	0.005 U	120	0.006	0.02 B	150	18	48	34								
5/15/2007	XX	GW303B0AB	0.005 U	54		0.017	63	8.5	36	19								
8/15/2007	XX	GW303B0C4	0.005 U	69		0.039	78	12	33	18								
10/29/2007	XX	GW303B0DG	0.005 U	150		0.036	190	18	59	38								
6/3/2008	XX	GW303B0G4	0.005 U	52		0.02	63	9.1	37	17								
8/13/2008	XX	GW303B0I4	0.005 U	42		0.01	42	8.4	28	13								
10/20/2008	XX	GW303B0JC	0.005 U	65		0.01	69	11	31	17								
5/5/2009	XX	GW303B11C	0.005 U	60		0.01	62	9.9	24	14								
8/6/2009	XX	GW303B13C	0.005 U	37		0.01 U	37	9.8	23	10								
10/21/2009	XX	GW303B150	0.005 U	53		0.01 U	55	7.6	32	14								
5/27/2010	XX	GW303B171	0.005 U	45		0.011	37	7.5	27	9.2								
8/4/2010	XX	GW303B192	0.005 U	83		0.02	83	14	39	18								
8/4/2010	XD	GWDP2X181	0.005 U	64		0.014	66	11	31	18								
10/14/2010	XX	GW303B1AA	0.005 U	79		0.02	80	7.6	30	22								
5/17/2011	XX	GW303B1E6	0.005 U	34		0.01 U	32	5.8	21	8.6								
8/9/2011	XX	GW303B1FH	0.0016 U	28		0.016	26	5.5	19	6.8								
11/3/2011	XX	GW303B1H8	0.0016 U	59		0.0039 J	62	8.9	25	16								
5/17/2012	XX	GW303B1J2	0.005 U	44		0.01 U	44	7.4	24	12								
8/15/2012	XX	GW303B20F	0.005 U	44		0.01 U	45	8.2	23	12								
11/1/2012	XX	GW303B229	0.005 U	89		0.01 U	86	12	40	23								
5/21/2013	XX	GW303B243	0.005 U	35		0.01 U	34	5.7	18	7.3								
7/24/2013	XX	GW303B25H	0.005 U	31		0.01 U	28	5.3	20	7.8								
10/2/2013	XX	GW303B27B	0.005 U	48		0.01 U	43	7.4	23	11								
6/3/2014	XX	GW303B295	0.008 U	37.9		0.1 U	35.1	5.08	21.1	8.04								
8/20/2014	XX	GW303B2AJ	0.008 U	56.9		0.1 U	44.6	8.09	28.4	11								
11/12/2014	XX	GW303B2CD	0.008 U	89.5		0.129	84.6	7.47	36	18.9								
6/3/2015	XX	GW303B2E9	0.008 U	35.8		0.1 U	33.8	5.76	22.1	7.98								
9/1/2015	XX	GW303B2G4	0.008 U	42.2		0.1 U	39.5	5.54	27.1	9.93								

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Metals

(303B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
11/3/2015	XX	GW303B2HI	0.008 U	54.2		0.1 U	51.7	7.8	28.7	12.3							
6/15/2016	XX	GW303B318	0.008 U	24.6		0.1 U	23.3	4.07	17.5	4.96							
9/20/2016	XX	GW303B332	0.008 U	62.9		0.1 U	59	10.5	30.8	14.4							
11/8/2016	XX	GW303B34G	0.008 U	86.7		0.1 U	74.5	12.7	34.1	16.7							
6/13/2017	XX	GW303B36B	0.008 U	32.1		0.1 U	27	4.3	19.5	6.59							
8/30/2017	XX	GW303B385	0.008 U	37.7		0.1 U	30.6	5.36	21.9	6.8							
11/15/2017	XX	GW303B39J	0.008 U	90.9		0.1 U	79.3	7.99	33.8	19.3							
6/20/2018	XX	GW303B3BE	0.008 U	28.8		0.1 U	23.3	4.14	20.7	5.94							
8/15/2018	XX	GW303B3E3	0.008 U	39.8		0.1 U	37.2	4.96	25.4	7.46							
11/27/2018	XX	GW303B3F2	0.008 U	90.7		0.1 U	82.1	8.85	34.9	19.6							
6/4/2019	XX	GW303B3GH	0.008 U	29.1		0.1 U	26.5	4.24	19.9	6.37							
8/14/2019	XX	GW303B3J6	0.008 U	28.8		0.1 U	25.7	4.34	21	5.46							
10/22/2019	XX	GW303B405	0.008 U	63.7		0.1 U	62.2	10.1	33.8	13.9							
6/16/2020	XX	GW303B420	0.008 U	33.2		0.1 U	29.7	4.61	22.2	6.49							
8/4/2020	XX	GW303B449	0.008 U			0.1 U	44.9	6.64	29.8	8.2							
8/4/2020	XX	GW303B449R		46.4													
10/20/2020	XX	GW303B458	0.008 U	81.4		0.1 U	73.9	11.1	38.8	17.2							
6/22/2021	XX	GW303B473	0.008 U	36.5		0.1 U	33.5	5.06	21.8	7.02							
9/21/2021	XX	GW303B48I	0.008 U	71.1		0.187	69.7	9.45	33.2	15.5							
304A																	
5/3/2000	XX	304AXX36649				0.02 U		0.01 U	1.11	17.08							
8/9/2000	XX	304AXX36747				0.02		0.02	1.14	14.52							
11/9/2000	XX	304AXX36839	0.008 U			0.039		0.07	1.21	15.7							
5/16/2001	XX	304AXX37027	0.008 U			0.02 U		0.01	1.08	15.3							
7/31/2001	XX	304AXX37103	0.008 U			0.042		0.02	1.14	14.6							
10/23/2001	XX	304AXX37187	0.008 U			0.03		0.17	1.55	17							
5/21/2002	XX	304AXX37397	0.01 U	55.5		0.043	10.4	0.01 U	1.268	16.5							
7/30/2002	XX	304AXX37467	0.01 U	28.8		0.022	9	0.02	1.18	15.4							
10/22/2002	XX	304AXX37551	0.01 U	36.3		0.032	11.5	0.06	1.54	15.2							
6/24/2003	XX	304AXX37796	0.005 U	75		0.012	10	0.14	1.7	12							
8/7/2003	XX	304AXX37840	0.005 U	65		0.021	11	0.14	1.8	15							
10/21/2003	XX	304AXX37915	0.005 U	77		0.01 U	13	0.24	2	18							
5/10/2004	XX	304AXX38117	0.005 U	68		0.034	11	0.043	1.7	14							
7/28/2004	XX	304AXX38196	0.005 U	59		0.01	11	0.07	1.3	16							
10/21/2004	XX	304AXX38281	0.005 U	75		0.031	13	0.15	1.7	18							
5/10/2005	XX	GW304A010	0.005 U	93		0.02	7.4	0.05	2	7							
7/28/2005	XX	GW304A02C	0.005 U	61		0.02	8.3	0.01 U	1.7	12							
11/8/2005	XX	GW304A044	0.005 U	37		0.02	9.8	0.01 U	2.1	13							
5/3/2006	XX	GW304A090	0.005 U	64		0.03	9.3	0.01 U	1.4	13							
8/1/2006	XX	GW304A078	0.005 U	82		2.1	9	0.12	2.4	11							
10/26/2006	XX	GW304A05G	0.005 U	59		0.07 B	7.9	0.01	1.9	12							
5/8/2007	XX	GW304A0AC	0.005 U	68		0.097	5.5	0.014	1.1	8.7							
8/7/2007	XX	GW304A0C5	0.005 U	58		0.026	8.5	0.019	1.9	14							
8/7/2007	XD	GWDP4X0EH	0.005 U	59		0.017	8.6	0.019	1.9	14							
10/31/2007	XX	GW304A0DH	0.005 U	93		0.01 U	9.9	0.034	1.5	14							
6/3/2008	XX	GW304A0G5	0.005 U	52		0.024	8.2	0.01 U	1.7	11							
8/18/2008	XX	GW304A0I5	0.005 U	47		0.02	8.7	0.01 U	1.2	13							
10/23/2008	XX	GW304A0JD	0.005 U	56		0.02	8.8	0.01 U	1.3	12							
10/23/2008	XD	SWDP4X109	0.005 U	53		0.02	8.7	0.01 U	1.3	12							

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Metals

(304A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium									
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Date	Type	Sample ID																	
5/12/2009	XX	GW304A11D	0.005 U	44		0.015	8.4	0.01 U	1	12									
8/11/2009	XX	GW304A13D	0.005 U	54		0.14	8.4	0.011	1.6	11									
10/26/2009	XX	GW304A151	0.005 U	49		0.038	8.3	0.01 U	1.8	12									
6/2/2010	XX	GW304A172	0.005 U	54		0.068	8.4	0.01 U	1.6	11									
8/5/2010	XX	GW304A193	0.005 U	52		0.049	8.2	0.01 U	1.6	12									
10/18/2010	XX	GW304A1AB	0.005 U	40		0.023	7.8	0.01 U	1.2	11									
5/19/2011	XX	GW304A1DC	0.005 U	40		0.015	8	0.01 U	1.6	12									
8/8/2011	XX	GW304A1F3	0.0016 U	28		0.014	5	0.0069	0.89	7.7									
8/8/2011	XD	GWDP2X1G8	0.0016 U	40		0.034	7.2	0.0071	1.4	11									
11/2/2011	XX	GW304A1GE	0.0016 U	39		0.0054 J	7.8	0.0072 J	1.7	12									
5/15/2012	XX	GW304A1I8	0.005 U	41		0.016	7	0.01 U	1.5	9.6									
5/15/2012	XD	GWDP3X1JE	0.005 U	42		0.018	7.4	0.01 U	1.7	9.9									
8/15/2012	XX	GW304A201	0.005 U	34		0.01 U	6.9	0.01 U	2.1	11									
10/31/2012	XX	GW304A21F	0.005 U	39		0.016	7.7	0.01 U	1.8	11									
10/31/2012	XD	GWDP1X22J	0.005 U	38		0.046	8	0.01 U	1.8	12									
5/21/2013	XX	GW304A239	0.005 U	37		0.032	6.8	0.01 U	1.4	9.6									
5/21/2013	XD	GWDP1X24D	0.005 U	38		0.041	6.8	0.01 U	1.4	9.4									
7/25/2013	XX	GW304A253	0.005 U	38		0.018	6.8	0.01 U	1.6	10									
7/25/2013	XD	GWDP3X269	0.005 U	37		0.016	6.6	0.01 U	1.5	10									
10/2/2013	XX	GW304A26H	0.005 U	35		0.011	6.8	0.01 U	1.5	10									
10/2/2013	XD	GWDP2X283	0.005 U	36		0.018	7.2	0.01 U	1.5	11									
6/4/2014	XX	GW304A28B	0.008 U	36		0.1 U	7.55	0.005 U	1.03	11.2									
6/4/2014	XD	GWDP1X29F	0.008 U	35.1		0.1 U	7.35	0.005 U	1 U	10.8									
8/20/2014	XX	GW304A2A5	0.008 U	36.8		0.105	7.03	0.0124	1.07	10.7									
8/20/2014	XD	GWDP1X2B9	0.008 U	36.2		0.122	6.99	0.0136	1.03	10.7									
11/12/2014	XX	GW304A2BJ	0.008 U	31.7		0.217	5.88	0.0139	1.07	9.12									
11/12/2014	XD	GWDP2X2D5	0.008 U	32.4		0.534	6.04	0.034	1.1	8.88									
6/3/2015	XX	GW304A2DF	0.008 U	32.7		0.205	7.32	0.012	1 U	10.3									
6/3/2015	XD	GWDP1X2EJ	0.008 U	31.7		0.145	7.08	0.01	1 U	9.99									
9/2/2015	XX	GW304A2FA	0.008 U	34.8		0.1 U	7.42	0.005 U	1	11.2									
9/2/2015	XD	GWDP1X2GE	0.008 U	37.4		0.1 U	7.72	0.005 U	1.04	12.1									
11/4/2015	XX	GW304A2H4	0.008 U	36		0.1 U	7.51	0.007	1.2	10.7									
11/4/2015	XD	GWDP2X2IA	0.008 U	34.7		0.1 U	7.24	0.009	1.07	10.1									
6/16/2016	XD	GWDP1X31I	0.008 U	33.1		0.1 U	7.58	0.005 U	1 U	10.8									
6/16/2016	XX	GW304A30E	0.008 U	32.4		0.1 U	7.45	0.005 U	1	10.6									
9/21/2016	XD	GWDP1X33C	0.008 U	31.1		0.1 U	7.04	0.005 U	1	11.1									
9/21/2016	XX	GW304A328	0.008 U	32.1		0.1 U	7.1	0.005 U	1	11.6									
11/8/2016	XD	GWDP2X358	0.008 U	36		0.1 U	6.66	0.005	1.1	10.6									
11/8/2016	XX	GW304A342	0.008 U	36.2		0.1 U	6.64	0.005	1.1	10.6									
6/14/2017	XD	GWDP1X37I	0.008 U	34.6		0.116	7.33	0.0109	1.16	11.1									
6/14/2017	XX	GW304A35H	0.008 U	36		0.1 U	7.62	0.0083	1.17	11.5									
8/29/2017	XD	GWDP1X38F	0.008 U	32.4		0.181	6.57	0.0196	1.02	10.7									
8/29/2017	XX	GW304A37B	0.008 U	33.4		0.205	6.76	0.0186	1.06	11									
11/14/2017	XD	GWDP2X3AB	0.008 U	33.6		0.1 U	6.15	0.0089	1.1	10.3									
11/14/2017	XX	GW304A395	0.008 U	31.5		0.156	6.24	0.0139	1.1	10.3									
6/21/2018	XD	GWDP1X3C4	0.008 U	33.9		0.171	6.88	0.0215	1.08	10									
6/21/2018	XX	GW304A3B0	0.008 U	38.2		0.217	7.29	0.0302	1.47	10.1									
8/15/2018	XD	GWDP1X3CJ	0.008 U	32		0.762	6.99	0.069	1.05	10.6									
8/15/2018	XX	GW304A3D9	0.008 U	32.7		0.945	7.09	0.0829	1.14	11									
11/30/2018	XD	GWDP2X3FE	0.008 U	35.9		0.1 U	6.78	0.005 U	1.12	11									

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Metals

(304A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
11/30/2018	XX	GW304A3E8	0.008 U	36.4		0.1 U	6.83	0.005 U	1.16	11						
6/5/2019	XD	GWDP1X3H7	0.008 U	32.6		0.1 U	7	0.0066	1 U	10.7						
6/5/2019	XX	GW304A3G3	0.008 U	31.6		0.1 U	6.75	0.0057	1 U	10.4						
8/14/2019	XX	GW304A3IC				0.134			1	11.2						
8/14/2019	XX	GW304A3ICR	0.008 U	33.7			7.95	0.0327								
10/24/2019	XD	GWDP2X40H	0.008 U	31.1		0.114	7.2	0.0233	1.03	11						
10/24/2019	XX	GW304A3JB	0.008 U	32.5		0.13	7.49	0.0264	1.1	11.3						
6/17/2020	XD	GWDP1X42A	0.008 U	34.1		0.1 U	6.97	0.0086	1.04	12.3						
6/17/2020	XX	GW304A416	0.008 U	31.5		0.1 U	6.55	0.0081	1 U	11.4						
8/5/2020	XX	GW304A43F	0.008 U	33.5		0.1 U	7.12	0.0175	1 U	11.4						
10/22/2020	XD	GWDP2X460	0.008 U	39.7		0.1 U	7.05	0.0158	1.3	13.1						
10/22/2020	XX	GW304A44E	0.008 U	40		0.1 U	7.07	0.0175	1.35	13.4						
6/22/2021	XD	GWDP1X47D	0.008 U	32		0.279	7.26	0.0422	1 U	10.7						
6/22/2021	XX	GW304A469	0.008 U	33.5		0.349	7.26	0.0465	1.02	11.2						
9/22/2021	XX	GW304A484	0.008 U	38.4		0.377	7.56	0.0491	1.24	12.2						
9/22/2021	XD	GWDP2X49A	0.008 U	39.6		0.312	7.7	0.0444	1.26	12.5						
304B																
5/3/2000	XX	304BXX36649				0.658		0.012	0.44	3.15						
8/9/2000	XX	304BXX36747				0.239		0.03	0.91	14.67						
11/9/2000	XX	304BXX36839	0.008 U			0.099		0.01	0.89	16.9						
5/16/2001	XX	304BXX37027	0.008 U			0.09		0.01 U	0.85	19.1						
7/31/2001	XX	304BXX37103	D			D		D	D	D						
10/23/2001	XX	304BXX37187	0.008 U			0.518		0.15	1.29	21						
5/21/2002	XX	304BXX37397	0.01 U	29.9		0.061	3	0.01 U	0.911	13.3						
7/30/2002	XX	304BXX37467	0.01 U	20.9		0.076	4	0.03	1	15.8						
10/22/2002	XX	304BXX37551	0.01 U	22.6		0.104	4.2	0.01 U	1.07	13						
6/24/2003	XX	304BXX37796	0.005 U	43		0.028	5	0.01 U	1 U	11						
8/7/2003	XX	304BXX37840	0.005 U	38		0.021	4.2	0.01 U	1.1	12						
10/21/2003	XX	304BXX37915	0.005 U	35		0.042	4.1	0.012	1.1	13						
5/10/2004	XX	304BXX38117	0.005 U	29		0.033	3.5	0.01 U	1 U	11						
7/28/2004	XX	304BXX38196	0.005 U	25		0.035	2.9	0.01	1 U	9.4						
10/21/2004	XX	304BXX38281	0.005 U	31		0.043	3.5	0.01 U	1 U	11						
5/10/2005	XX	GW304B011	0.005 U	20		0.02	2.3	0.01 U	1 U	7						
7/28/2005	XX	GW304B02D	0.005 U	39		0.03	4	0.01 U	1.1	12						
11/8/2005	XX	GW304B045	0.005 U	34		0.03	3.4	0.01 U	1.1	12						
5/3/2006	XX	GW304B091	0.005 U	21		0.02	2.4	0.01 U	1 U	9.4						
8/1/2006	XX	GW304B079	0.005 U	29		0.02	3	0.01 U	1.2	11						
10/26/2006	XX	GW304B05H	0.005 U	26		0.01 B	2.9	0.01 U	1.1	12						
5/8/2007	XX	GW304B0AD	0.005 U	25		0.02	2.7	0.01 U	1 U	14						
8/7/2007	XX	GW304B0C6	0.005 U	34		0.13	3.3	0.025	1.4	16						
10/31/2007	XX	GW304B0D1	0.005 U	29		0.021	3.1	0.01 U	0.92	12						
6/5/2008	XX	GW304B0G6	0.005 U	18		0.022	2	0.01 U	1 U	8.5						
6/5/2008	XD	LTDP4XF5	0.005 U	19		0.018	2.1	0.01 U	1 U	8.8						
8/18/2008	XX	GW304B0I6	0.005 U	12		0.03	1.3	0.05	1 U	6.8						
10/23/2008	XX	GW304B0JE	0.005 U	17		0.28	1.9	0.05	1 U	8.9						
5/12/2009	XX	GW304B11E	0.005 U	8.2		0.07	1 U	0.01 U	1 U	4.3						
8/11/2009	XX	GW304B13E	0.005 U	24		0.17	2.1	0.06	1.1	7.5						
10/26/2009	XX	GW304B152	0.005 U	15		0.42	1.7	0.03	1 U	6.6						
6/2/2010	XX	GW304B173	0.005 U	13		0.1	1.4	0.02	1 U	7.1						

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Metals

(304B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium					
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
Date	Type	Sample ID													
8/5/2010	XX	GW304B194	0.005 U	16		0.44	1.8	0.13	1	8.4					
10/18/2010	XX	GW304B1AC	0.005 U	13		0.24	1.4	0.015	1 U	8.1					
10/18/2010	XD	GWDP3X1B6	0.005 U	12		0.23	1.3	0.017	1 U	7.6					
5/19/2011	XX	GW304B1DD	0.005 U	7.6		0.067	1 U	0.012	1 U	5.1					
8/8/2011	XX	GW304B1F4	0.0016 U	9.7		0.03	1	0.0061	0.53	6.3					
11/2/2011	XX	GW304B1GF	0.0016 U	15		0.043	1.6	0.0089 J	0.9 J	7.7					
5/15/2012	XX	GW304B1I9	0.005 U	9.9		0.035	1.1	0.01 U	1 U	4.5					
8/15/2012	XX	GW304B202	0.005 U	23		0.035	2.6	0.01 U	1.9	12					
10/31/2012	XX	GW304B21G	0.005 U	18		0.078	1.9	0.013	1 U	10					
5/21/2013	XX	GW304B23A	0.005 U	11		0.01 U	1.2	0.04	1 U	6.7					
7/25/2013	XX	GW304B254	0.005 U	14		0.034	1.5	0.01 U	1 U	9.3					
10/2/2013	XX	GW304B26I	0.005 U	12		0.01 U	1.4	0.01 U	1 U	8.6					
6/4/2014	XX	GW304B28C	0.008 U	12.6		0.1 U	1.42	0.0059	1 U	9.13					
8/20/2014	XX	GW304B2A6	0.008 U	12.6		0.127	1.3	0.0184	1 U	8.88					
11/12/2014	XX	GW304B2C0	0.008 U	8.95		0.197	1.02	0.0158	1 U	6.15					
6/3/2015	XX	GW304B2DG	0.008 U	6.78		0.189	0.8	0.023	1 U	4.15					
9/2/2015	XX	GW304B2FB	0.008 U	12.2		0.127	1.34	0.022	1 U	9.19					
11/4/2015	XX	GW304B2H5	0.008 U	9.09		0.1 U	1.06	0.005 U	1 U	6.24					
6/16/2016	XX	GW304B30F	0.008 U	9.69		0.122	1.21	0.033	1 U	7.47					
9/21/2016	XX	GW304B329	0.008 U	11		0.312	1.37	0.034	1 U	10.9					
11/8/2016	XX	GW304B343	0.008 U	18.1		0.204	1.69	0.037	1 U	12.7					
6/14/2017	XX	GW304B35I	0.008 U	12.6		0.1 U	1.4	0.0295	1 U	9.68					
8/29/2017	XX	GW304B37C	0.008 U	9.5		0.202	1	0.0647	1 U	7.31					
11/14/2017	XX	GW304B396	0.008 U	13.1		0.103	1.26	0.0242	1 U	8.1					
6/21/2018	XX	GW304B3B1	0.008 U	12.4		0.101	1.41	0.0304	1 U	8.79					
8/15/2018	XX	GW304B3DA	0.008 U	13.6		0.206	1.51	0.169	1 U	9.24					
11/30/2018	XX	GW304B3E9	0.008 U	6.34		0.429	0.584	0.048	1 U	1.89					
6/5/2019	XX	GW304B3G4	0.008 U	12.4		0.1 U	1.39	0.015	1 U	8.54					
8/14/2019	XX	GW304B3ID	0.008 U	14.2		0.198	1.67	0.0337	1 U	9.81					
10/24/2019	XX	GW304B3JC	0.008 U	12.4		0.952	1.66	0.108	1 U	8.36					
6/17/2020	XX	GW304B417	0.008 U	13.6		0.226	1.5	0.0709	1 U	9.37					
8/5/2020	XX	GW304B43G	0.008 U	16.6		2.48	2.26	0.315	1.11	11					
10/22/2020	XX	GW304B44F	0.008 U	7.68		0.777	0.833	0.11	1 U	3.15					
6/22/2021	XX	GW304B46A	0.008 U	20.4		0.334	2.39	0.0574	1 U	10.8					
9/22/2021	XX	GW304B485	0.008 U	32.1		1.22	3.68	0.154	1.2	14					
401A															
5/3/2000	XX	401AXX36649				0.047		0.016	1.43	9.71					
8/10/2000	XX	401AXX36748				0.027		0.01 U	1.46	9.47					
11/9/2000	XX	401AXX36839	0.09			0.044		0.08	1.19	8.2					
5/17/2001	XX	401AXX37028	0.08			0.067		0.01 U	1.35	9.2					
8/1/2001	XX	401AXX37104	0.11			0.027		0.01 U	1.47	9.3					
10/24/2001	XX	401AXX37188	0.12			0.02 U		0.01 U	1.72	9.5					
5/22/2002	XX	401AXX37398	0.13	14.9		0.066	5.5	0.01	1.544	9.6					
7/30/2002	XX	401AXX37467	0.15	15.8		0.023	4.9	0.01 U	1.27	8.3					
10/22/2002	XX	401AXX37551	0.18	15.5		0.039	5.4	0.01 U	1.53	7.8					
6/25/2003	XX	401AXX37797	0.19	34		0.01 U	6	0.01 U	1.7	8.6					
8/11/2003	XX	401AXX37844	0.18	31		0.016	5.7	0.01 U	1.5	8.1					
10/21/2003	XX	401AXX37915	0.19	33		0.01 U	6.2	0.01 U	1.6	9					
5/10/2004	XX	401AXX38117	0.16	33		0.022	6.3	0.01 U	1.7	10					

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Metals

(401A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium									
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Date	Type	Sample ID																	
7/29/2004	XX	401AXX38197	0.15	29		0.017	5.6	0.01 U	1.4	8.9									
10/21/2004	XX	401AXX38281	0.18	33		0.048	6.2	0.01 U	1.5	9.1									
5/9/2005	XX	GW401A012	0.17	31		0.01 U	5.7	0.01 U	1.7	9.1									
7/28/2005	XX	GW401A02E	0.2	40		0.01	6.3	0.01 U	1.8	10									
11/8/2005	XX	GW401A046	0.2	36		0.02	6.1	0.01 U	1.7	9.8									
5/4/2006	XX	GW401A092	0.18	36		0.01	6.3	0.01 U	1.7	10									
8/2/2006	XX	GW401A07A	0.2	32		0.02	5.9	0.01 U	1.7	9.8									
10/30/2006	XX	GW401A05I	0.23	33		0.01	6.2	0.01 U	2.1	10									
5/7/2007	XX	GW401A0AE	0.21	33		0.01 U	6.5	0.01 U	1.8	10									
8/14/2007	XX	GW401A0C7	0.18	27		0.019	5	0.01 U	1.8	8.4									
11/5/2007	XX	GW401A0DJ	0.29	42		0.019	6.4	0.01 U	2.1	11									
6/5/2008	XX	GW401A0G7	0.22	34		0.32	6.4	0.01 U	2.3	9.9									
8/20/2008	XX	GW401A0I7	0.19	34		0.02	5.5	0.01 U	1.9	8.1									
10/27/2008	XX	GW401A0JF	0.22	38		0.01	6	0.01 U	1.9	8.7									
5/13/2009	XX	GW401A11F	0.17	30		0.018	5.6	0.01 U	1.5	9.6									
8/13/2009	XX	GW401A13F	0.2	35		0.035	5.9	0.01 U	2	8.7									
10/28/2009	XX	GW401A153	0.17	28		0.01 U	5.4	0.01 U	1.4	8.6									
10/28/2009	XD	SWDP4X15H	0.17	27		0.01 U	5.4	0.01 U	1.4	8.4									
6/3/2010	XX	GW401A174	0.18	37		0.01 U	5.9	0.01 U	2.1	9.1									
8/17/2010	XX	GW401A195	0.19	28		0.01	5.6	0.01 U	1.7	8.8									
10/19/2010	XX	GW401A1AD	0.18	27		0.018	6.1	0.012	1.5	9.2									
5/16/2011	XX	GW401A1DE	0.19	30		0.01 U	6.4	0.01 U	2.2	9.3									
8/8/2011	XX	GW401A1F5	0.12	22		0.012	4.2	0.00039	1.1	6.6									
11/1/2011	XX	GW401A1GG	0.19	34		0.012	6.7	0.0002 J	2.3	10									
5/14/2012	XX	GW401A1IA	0.18	32		0.011	6.5	0.01 U	2.4	9.8									
8/14/2012	XX	GW401A203	0.18	30		0.01 U	5.9	0.01 U	2	9.7									
11/1/2012	XX	GW401A21H	0.19	32		0.01 U	7.3	0.01 U	2.4	12									
5/21/2013	XX	GW401A23B	0.15	31		0.01 U	5.7	0.01 U	2	8.7									
7/22/2013	XX	GW401A255	0.16	32		0.01 U	5.8	0.01 U	2	9.7									
9/30/2013	XX	GW401A26J	0.11	24		0.01 U	4.4	0.01 U	1.3	7.1									
6/4/2014	XX	GW401A28D	0.164	33.7		0.1 U	6.96	0.005 U	1.63	10.2									
8/19/2014	XX	GW401A2A7	0.151	34.2		0.171	6.65	0.0113	1.59	10									
11/11/2014	XX	GW401A2C1	0.151	31.5		0.238	6.59	0.01	1.59	9.63									
6/2/2015	XX	GW401A2DH	0.159	32		0.359	6.91	0.014	1.6	9.84									
9/1/2015	XX	GW401A2FC	0.166	36.2		0.1 U	7.54	0.005 U	1.74	11.6									
11/3/2015	XX	GW401A2H6	0.167	35		0.147	7.35	0.006	1.73	10.8									
6/14/2016	XX	GW401A30G	0.157	36.8		0.1 U	7.61	0.005 U	1.9	11.3									
9/20/2016	XX	GW401A32A	0.164	36.6		0.1 U	7.43	0.005 U	1.6	10.8									
11/9/2016	XX	GW401A344	0.165	35.8		0.307	7.24	0.008	1.8	11.5									
6/14/2017	XX	GW401A35J	0.159	35.8		0.164	7.24	0.0073	1.76	10.5									
8/29/2017	XX	GW401A37D	0.158	36.3		0.1 U	7.11	0.0089	1.68	10.7									
11/14/2017	XX	GW401A397	0.138	35.5		0.1 U	6.47	0.0099	1.6	9.87									
6/20/2018	XX	GW401A3B2	0.131	37.9		0.1 U	6.69	0.005 U	1.7	11.1									
8/15/2018	XX	GW401A3DB	0.144	35.5		0.1 U	7.37	0.0054	1.67	10.5									
11/30/2018	XX	GW401A3EA	0.144	36.6		0.1 U	7.04	0.005 U	1.73	10.4									
6/5/2019	XX	GW401A3G5	0.141	34.8		0.1 U	7.19	0.005 U	1.7	10.1									
8/14/2019	XX	GW401A3IE	0.148	37.5		0.1 U	7.6	0.0055	1.78	11									
10/22/2019	XX	GW401A3JD	0.135	38.5		0.1 U	7.53	0.0053	1.71	10.5									
6/17/2020	XX	GW401A418	0.138	36.2		0.1 U	7.21	0.005 U	1.7	10.7									
8/4/2020	XX	GW401A43H	0.152			0.1 U	8.08	0.005 U	1.82	11.3									

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Metals

(401A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
8/4/2020	XX	GW401A43HR		38.6													
10/21/2020	XX	GW401A44G	0.15	40.7		0.1 U	8.18	0.005 U	1.86	11.3							
6/23/2021	XX	GW401A46B	0.138	38		0.1 U	7.28	0.0053	1.71	10.4							
9/21/2021	XX	GW401A486	0.142	35.8		0.1 U	7.75	0.0246	1.74	10.6							
401B																	
5/3/2000	XX	401BXX36649				0.023		0.135	1.44	12.24							
8/10/2000	XX	401BXX36748				0.02		0.22	1.51	12.4							
11/9/2000	XX	401BXX36839	0.008 U			0.052		0.35	1.34	11.5							
5/17/2001	XX	401BXX37028	0.008 U			0.689		0.32	1.53	11.8							
8/1/2001	XX	401BXX37104	0.008 U			0.033		0.24	1.56	12.9							
10/24/2001	XX	401BXX37188	0.008 U			0.731		0.35	1.65	12							
5/22/2002	XX	401BXX37398	0.01 U	23.6		0.119	6.4	0.32	1.544	12.6							
7/30/2002	XX	401BXX37467	0.01 U	26.4		0.02 U	6.6	0.26	1.44	12.7							
10/22/2002	XX	401BXX37551	0.015	25		0.027	6.2	0.4	1.55	10.8							
6/25/2003	XX	401BXX37797	0.005 U	52		0.01 U	7	0.26	3.8	12							
8/11/2003	XX	401BXX37844	0.005 U	47		0.01 U	6.8	0.26	1.7	12							
10/21/2003	XX	401BXX37915	0.005 U	51		0.01 U	7.3	0.27	1.9	13							
5/10/2004	XX	401BXX38117	0.005 U	51		0.029	7.7	0.081	1.8	15							
7/29/2004	XX	401BXX38197	0.005 U	46		0.021	6.9	0.33	1.5	14							
10/21/2004	XX	401BXX38281	0.005 U	52		0.048	7.5	0.34	1.8	14							
5/9/2005	XX	GW401B013	0.005 U	51		0.01 U	7	0.14	1.8	13							
7/28/2005	XX	GW401B02F	0.005 U	57		0.01	7.2	0.27	2	14							
11/8/2005	XX	GW401B047	0.005 U	49		0.02	6.2	0.22	1.7	12							
5/4/2006	XX	GW401B093	0.005 U	57		0.01 U	7.7	0.01 U	2	16							
8/2/2006	XX	GW401B07B	0.005 U	53		0.02	7.2	0.26	2.3	15							
10/30/2006	XX	GW401B05J	0.005 U	45		0.01 U	6.4	0.29	2	14							
5/7/2007	XX	GW401B0AF	0.005 U	55		0.01 U	7.9	0.056	2	15							
8/14/2007	XX	GW401B0C8	0.005 U	51		0.015	6.6	0.26	2.2	14							
11/5/2007	XX	GW401B0E0	0.005 U	70		0.017	7.4	0.35	2.4	17							
6/5/2008	XX	GW401B0G8	0.005 U	52		0.013	7.6	0.23	2.5	14							
8/20/2008	XX	GW401B0I8	0.005 U	54		0.02	6.8	0.33	2.2	12							
10/27/2008	XX	GW401B0JG	0.005 U	66		0.01 U	7.2	0.39	2.4	14							
5/13/2009	XX	GW401B11G	0.005 U	49		0.018	7.1	0.048	1.6	14							
8/13/2009	XX	GW401B13G	0.005 U	61		0.01 U	7.1	0.29	2.3	13							
10/28/2009	XX	GW401B154	0.005 U	48		0.011	7.1	0.34	1.7	14							
6/3/2010	XX	GW401B175	0.005 U	58		0.01 U	7	0.21	2.3	13							
8/17/2010	XX	GW401B196	0.005 U	54		0.01 U	7.1	0.38	2.1	14							
10/19/2010	XX	GW401B1AE	0.005 U	46		0.014	7.2	0.35	1.8	14							
5/16/2011	XX	GW401B1DF	0.005 U	50		0.01 U	7.4	0.087	2.3	14							
8/8/2011	XX	GW401B1F6	0.0016 U	49		0.027	7.2	0.54	2	14							
11/1/2011	XX	GW401B1GH	0.0016 U	52		0.005 J	7.6	0.47	2.7	15							
5/14/2012	XX	GW401B1IB	0.005 U	52		0.01 U	7.8	0.041	2.7	14							
8/14/2012	XX	GW401B204	0.005 U	46		0.025	7.1	0.36	2.4	14							
11/1/2012	XX	GW401B21I	0.005 U	54		0.012	8.7	0.48	3.1	17							
5/21/2013	XX	GW401B23C	0.005 U	51		0.031	6.9	0.086	2.5	13							
7/22/2013	XX	GW401B256	0.005 U	53		0.01 U	7.2	0.3	2.7	14							
9/30/2013	XX	GW401B270	0.005 U	54		0.01 U	7.4	0.48	2.6	15							
6/4/2014	XX	GW401B28E	0.008 U	56.8		0.1 U	8.42	0.0641	1.81	14.7							
8/19/2014	XX	GW401B2A8	0.008 U	56.5		0.151	8.16	0.509	1.88	14.4							

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Metals

(401B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
11/11/2014	XX	GW401B2C2	0.008 U	50.1		0.164	7.71	0.399	1.87	14.2						
6/2/2015	XX	GW401B2DI	0.008 U	52.2		0.373	8.45	0.278	1.79	13.4						
9/1/2015	XX	GW401B2FD	0.008 U	60.2		0.1 U	9.36	0.488	2.06	16.6						
11/3/2015	XX	GW401B2H7	0.008 U	59.6		0.1 U	9.06	0.507	2.07	15.6						
6/14/2016	XX	GW401B30H	0.008 U	61.3		0.112	9.16	0.185	2.1	15.6						
9/20/2016	XX	GW401B32B	0.008 U	61.1		0.1 U	9.37	0.39	1.8	15.4						
11/9/2016	XX	GW401B345	0.008 U	59.1		0.1 U	9.08	0.401	2	14.5						
6/14/2017	XX	GW401B360	0.008 U	63.1		0.1 U	9.68	0.24	2	14.7						
8/29/2017	XX	GW401B37E	0.008 U	58.7		0.1 U	8.83	0.366	1.85	14						
11/14/2017	XX	GW401B398	0.008 U	58.3		0.138	8.37	0.534	1.9	13.5						
6/20/2018	XX	GW401B3B3	0.008 U	69.8		0.1 U	8.59	0.162	2.05	15.8						
8/15/2018	XX	GW401B3DC	0.008 U	63.8		0.1 U	9.95	0.429	2.01	14.7						
11/30/2018	XX	GW401B3EB	0.008 U	64.2		0.1 U	9.19	0.0642	2.08	14.3						
6/5/2019	XX	GW401B3G6	0.008 U	61.6		0.1 U	9.64	0.085	1.88	13.4						
8/14/2019	XX	GW401B3IF	0.008 U	61.8		0.1 U	9.59	0.383	1.91	13.8						
10/22/2019	XX	GW401B3JE	0.008 U	65.1		0.1 U	10.3	0.606	2.11	15.2						
6/17/2020	XX	GW401B419	0.008 U	64.8		0.1 U	9.72	0.23	1.96	14.7						
8/4/2020	XX	GW401B43I	0.008 U			0.1 U	10	0.279	1.92	14.1						
8/4/2020	XX	GW401B43IR		67.4												
10/21/2020	XX	GW401B44H	0.008 U	69.3		0.136	10.8	0.873	2.23	15.4						
6/23/2021	XX	GW401B46C	0.008 U	66		0.1 U	9.65	0.27	1.96	13.9						
9/21/2021	XX	GW401B487	0.008 U	62		0.1 U	10.3	0.416	2.03	14.1						
402A																
5/3/2000	XX	402AXX36649				0.02 U		0.063	0.58	6.98						
8/10/2000	XX	402AXX36748				0.053		0.13	0.59	6.63						
11/9/2000	XX	402AXX36839	0.008 U			0.07		0.08	0.53	6.4						
5/17/2001	XX	402AXX37028	0.008 U			0.077		0.11	0.53	6.5						
8/1/2001	XX	402AXX37104	0.008 U			0.102		0.11	0.58	6.7						
10/24/2001	XX	402AXX37188	0.008 U			0.117		0.1	0.67	6.9						
5/22/2002	XX	402AXX37398	0.019	14.3		0.06	6.8	0.04	0.591	6.6						
7/30/2002	XX	402AXX37467	0.01 U	16.2		0.039	6.9	0.12	0.53	6.5						
10/22/2002	XX	402AXX37551	0.015	15.4		0.086	5.6	0.13	0.76	9.7						
6/25/2003	XX	402AXX37797	0.005 U	32		0.027	8	0.24	1 U	5.9						
8/11/2003	XX	402AXX37844	0.005 U	29		0.036	7.4	0.32	1 U	5.8						
10/22/2003	XX	402AXX37916	0.005 U	28		0.085	7.1	0.22	1 U	5.6						
5/11/2004	XX	402AXX38118	0.005	32		0.096	8.6	0.096	1 U	7.3						
7/29/2004	XX	402AXX38197	0.005 U	28		0.069	7.6	0.09	1 U	6.7						
10/26/2004	XX	402AXX38286	0.005 U	31		0.099	8.2	0.1	1 U	6.1						
5/9/2005	XX	GW402A014	0.005 U	31		0.08	7.5	0.09	1 U	6.5						
8/1/2005	XX	GW402A02G	0.005	35	0.003 U	0.08	7.5	0.09	1 U	6.9						
11/9/2005	XX	GW402A048	0.005	36		0.08	8.2	0.08	1 U	6						
5/4/2006	XX	GW402A094	0.005	36		0.06	8.3	0.1	1 U	7.5						
8/2/2006	XX	GW402A07C	0.005 U	31		0.05	7.7	0.07	1 U	7						
10/30/2006	XX	GW402A060	0.005	33		0.07	8.4	0.1	1 U	7.6						
5/7/2007	XX	GW402A0AG	0.007	33		0.14	8.4	0.12	0.7	7.2						
8/14/2007	XX	GW402A0C9	0.005 U	28		0.074	7	0.048	1 U	6.5						
11/5/2007	XX	GW402A0E1	0.005 U	48		0.11	8.5	0.11	1 U	7.6						
6/5/2008	XX	GW402A0G9	0.0052	33		0.15	8.6	0.14	1 U	7.3						
8/20/2008	XX	GW402A0I9	0.005 U	35		0.1	7.2	0.09	1 U	5.9						

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Metals

(402A)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium									
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Date	Type	Sample ID																	
10/27/2008	XX	GW402A0JH	0.005 U	38		0.13	8.7	0.13	1 U	6.9									
5/13/2009	XX	GW402A11H	0.005 U	30		0.16	7.9	0.16	1 U	7.2									
5/13/2009	XD	LTDP4X10D	0.005 U	30		0.16	7.9	0.15	1 U	7.2									
8/13/2009	XX	GW402A13H	0.005 U	39		0.12	7.8	0.1	1 U	6.4									
10/28/2009	XX	GW402A155	0.005 U	28		0.11	7.2	0.1	1 U	6.4									
6/3/2010	XX	GW402A176	0.005 U	33		0.18	8.1	0.11	1 U	6.9									
8/17/2010	XX	GW402A197	0.005 U	30		0.092	8.2	0.1	1 U	7.1									
10/19/2010	XX	GW402A1AF	0.005 U	30		0.079	9	0.12	1 U	7.2									
5/16/2011	XX	GW402A1DG	0.005 U	34		0.14	9	0.19	1	7.6									
8/8/2011	XX	GW402A1F7	0.0037	32		0.098	8	0.12	0.71	7									
11/1/2011	XX	GW402A1GI	0.0035 J	34		0.088	8.9	0.13	0.83 J	7.2									
5/16/2012	XX	GW402A1IC	0.005 U	34		0.1	9.6	0.14	1 U	7.9									
8/15/2012	XX	GW402A205	0.005 U	33		0.078	9.2	0.14	1	7.6									
10/31/2012	XX	GW402A21J	0.0056	37		0.22	11	0.15	1	8.4									
5/20/2013	XX	GW402A23D	0.005 U	30		0.062	8.1	0.1	1 U	7.1									
7/22/2013	XX	GW402A257	0.005 U	36		0.08	9.2	0.13	1	7.8									
9/30/2013	XX	GW402A271	0.005 U	38		0.089	9.6	0.14	1 U	7.8									
6/4/2014	XX	GW402A28F	0.008 U	42.5		0.127	12.4	0.144	1 U	8.49									
8/19/2014	XX	GW402A2A9	0.008 U	41.9		0.143	10.7	0.148	1 U	8.06									
11/11/2014	XX	GW402A2C3	0.008 U	35.8		0.136	10	0.128	1 U	7.67									
6/4/2015	XX	GW402A2DJ	0.008 U	39.2		0.159	11.2	0.149	1 U	7.85									
9/1/2015	XX	GW402A2FE	0.008 U	42.4		0.1 U	11.8	0.143	1 U	9.04									
11/3/2015	XX	GW402A2H8	0.008 U	41.1		0.1 U	11.6	0.15	1 U	8.48									
6/14/2016	XX	GW402A30I	0.008 U	44.6		0.119	12.2	0.152	1 U	8.98									
9/20/2016	XX	GW402A32C	0.008 U	47.2		0.119	12.8	0.164	1 U	9									
11/9/2016	XX	GW402A346	0.008 U	50.7		0.138	13	0.189	1 U	9.33									
6/14/2017	XX	GW402A361	0.008 U	46.1		0.121	12.5	0.166	1 U	9.04									
8/29/2017	XX	GW402A37F	0.008 U	47.8		0.116	12.7	0.167	1 U	9.09									
11/15/2017	XX	GW402A399	0.008 U	46.6		0.121	12.5	0.159	1 U	8.89									
6/20/2018	XX	GW402A3B4	0.008 U	51.9		0.12	12.8	0.17	1 U	9.52									
8/15/2018	XX	GW402A3DD	0.008 U	47.2		0.102	13.2	0.161	1 U	8.86									
11/28/2018	XX	GW402A3EC	0.008 U	47		0.122	12.7	0.161	1 U	8.99									
6/5/2019	XX	GW402A3G7	0.008 U	50.5		0.143	14	0.176	1 U	9.19									
8/13/2019	XX	GW402A3IG	0.008 U	48.4		0.228	14.4	0.175	1 U	9.38									
10/22/2019	XX	GW402A3JF	0.008 U	48.4		0.12	13.6	0.164	1 U	9.16									
6/17/2020	XX	GW402A41A	0.008 U	49.6		0.124	13	0.166	1 U	9.52									
8/4/2020	XX	GW402A43J	0.008 U			0.139	15	0.178	1 U	9.71									
8/4/2020	XX	GW402A43JR		57.7															
10/21/2020	XX	GW402A44I	0.008 U	55.5		0.137	15.8	0.186	1 U	9.86									
6/23/2021	XX	GW402A46D	0.008 U	58.9		0.322	15.6	0.201	1 U	10									
9/21/2021	XX	GW402A488	0.008 U	54.8		0.175	16.1	0.179	1 U	9.94									
402B																			
5/3/2000	XX	402BXX36649				0.02 U		1.79	3.43	56.98									
8/10/2000	XX	402BXX36748				0.078		0.18	4.48	84.14									
11/9/2000	XX	402BXX36839	0.008 U			0.073		1.54	10.85	65.2									
5/17/2001	XX	402BXX37028	0.008 U			0.106		0.07	3.57	74.4									
8/1/2001	XX	402BXX37104	0.008 U			0.059		0.09	4.42	79.2									
10/24/2001	XX	402BXX37188	0.008 U			0.042		2.36	21.6	76.5									
5/22/2002	XX	402BXX37398	0.01 U	266.8		0.047	71	0.28	6.175	62.1									

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Metals

(402B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
8/7/2002	XX	402BXX37475	0.01 U	214.2	0.01 U	0.032	80.6	2.07	22	59.2						
10/24/2002	XX	402BXX37553	0.044	235	0.01 U	0.062	85.2	0.83	16.2	53.8						
6/25/2003	XX	402BXX37797	0.005 U	230	0.003 U	0.023	84	1.3	17	46						
8/11/2003	XX	402BXX37844	0.005 U	190	0.019	0.024	88	2.9	33	54						
10/22/2003	XX	402BXX37916	0.005 U	200	0.003 U	0.033	98	3	35	49						
5/11/2004	XX	402BXX38118	0.005 U	160	0.007	0.0879	67	1.1	15	41						
8/2/2004	XX	402BXX38201	0.005 U	160	0.0083	0.063	75	2.1	27	44						
10/26/2004	XX	402BXX38286	0.005 U	190	0.003 U	0.27	85	1.6	17	52						
5/9/2005	XX	GW402B015	0.005 U	150	0.003 U	0.02	65	0.67	13	36						
8/1/2005	XX	GW402B02H	0.005 U	200	0.003 U	0.03	90	0.16	7.3	57						
11/9/2005	XX	GW402B049	0.005 U	220	0.003 U	0.01	98	0.14	5.6	60						
5/5/2006	XX	GW402B095	0.005 U	170	0.004 B	0.02	81	1.1	15	47						
8/2/2006	XX	GW402B07D	0.005 U	200	0.003 U	0.03	78	0.68	6.3	52						
10/30/2006	XX	GW402B061	0.005 U	140	0.003 U	0.02	64	1.4	23	37						
5/7/2007	XX	GW402B0AH	0.005 U	150		0.025	68	1.5	10	38						
8/14/2007	XX	GW402B0CA	0.005 U	170		0.03	72	0.18	6.1	47						
11/5/2007	XX	GW402B0E2	0.005 U	160		0.023	76	2	24	38						
6/11/2008	XX	GW402B0GA	0.005 U	170		0.015	76	0.17	6.7	42						
8/20/2008	XX	GW402B0IA	0.005 U	180		0.02	64	0.19	5.7	39						
8/20/2008	XD	GWDP4X0H5	0.005 U	170		0.02	68	0.2	5.8	41						
10/27/2008	XX	GW402B0JI	0.005 U	180		0.02	86	0.85	12	42						
5/13/2009	XX	GW402B11I	0.005 U	160		0.028	80	0.32	3.6	40						
8/13/2009	XX	GW402B13I	0.005 U	200		0.015	100	0.23	5.6	50						
8/13/2009	XD	GWDP4X12D	0.005 U	180		0.01 U	100	0.21	5.6	50						
10/28/2009	XX	GW402B156	0.005 U	120		0.014	59	0.23	4.3	35						
6/3/2010	XX	GW402B177	0.005 U	180		0.017	82	0.81	6	36						
8/17/2010	XX	GW402B198	0.005 U	140		0.015	69	0.21	6.1	31						
8/17/2010	XD	GWDP4X183	0.005 U	130		0.014	64	0.23	5.8	30						
10/19/2010	XX	GW402B1AG	0.005 U	130		0.033	60	0.17	5	33						
5/16/2011	XX	GW402B1DH	0.005 U	120		0.015	62	0.33	9.2	26						
8/8/2011	XX	GW402B1F8	0.0016 U	130		0.012	64	0.19	6.3	32						
11/1/2011	XX	GW402B1GJ	0.0016 U	120		0.014 J	68	0.3	8.8	35						
5/16/2012	XX	GW402B1ID	0.005 U	110		0.016	64	0.59	11	30						
8/15/2012	XX	GW402B206	0.005 U	120		0.012	38	0.35	9.7	33						
10/31/2012	XX	GW402B220	0.005 U	130		0.061	70	1.5	13	36						
5/20/2013	XX	GW402B23E	0.005 U	110		0.011	58	0.34	8.2	26						
7/22/2013	XX	GW402B258	0.005 U	130		0.01 U	58	0.3	8.7	29						
9/30/2013	XX	GW402B272	0.005 U	130		0.01	65	0.54	8.6	29						
6/4/2014	XX	GW402B28G	0.008 U	136		0.1 U	69.3	1.01	6.29	30.3						
8/19/2014	XX	GW402B2AA	0.008 U	137		0.1 U	66.2	0.513	8.46	29.5						
11/11/2014	XX	GW402B2C4	0.008 U	124		0.1 U	64.7	0.418	8.18	29.3						
6/4/2015	XX	GW402B2E0	0.008 U	121		0.136	66.9	2.53	6.55	26.9						
9/1/2015	XX	GW402B2FF	0.008 U	143		0.1 U	80.5	0.625	10.8	34.1						
11/3/2015	XX	GW402B2H9	0.008 U	119		0.1 U	68.7	1.63	13.4	27.6						
6/14/2016	XX	GW402B30J	0.008 U	132		0.1 U	71.7	0.656	7.9	29.1						
9/20/2016	XX	GW402B32D	0.008 U	139		0.1 U	68.4	0.69	10.7	29.3						
11/9/2016	XX	GW402B347	0.008 U	138		0.1 U	70.9	0.454	11.9	30.9						
6/14/2017	XX	GW402B362	0.008 U	135		0.1 U	75	0.824	9.28	28.6						
8/29/2017	XX	GW402B37G	0.008 U	126		0.1 U	65.1	0.58	10.4	27.4						
11/15/2017	XX	GW402B39A	0.008 U	125		0.1 U	68.6	0.789	10.9	27.6						

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Metals

(402B)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium						
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
Date	Type	Sample ID														
6/20/2018	XX	GW402B3B5	0.008 U	138		0.1 U	66.9	2.48	10.2	28.4						
8/15/2018	XX	GW402B3DE	0.008 U	121		0.1 U	68.8	0.481	11	25.6						
11/28/2018	XX	GW402B3ED	0.008 U	128		0.129	65.9	5.04	11.7	26.7						
6/5/2019	XX	GW402B3G8	0.008 U	124		0.1 U	67.8	0.452	8.42	24.5						
8/13/2019	XX	GW402B3IH	0.008 U	117		0.1 U	68	0.891	11.9	25.6						
10/22/2019	XX	GW402B3JG	0.008 U	123		0.1 U	68.3	1.32	13.4	26.7						
6/17/2020	XX	GW402B41B	0.008 U	118		0.1 U	61.2	0.819	10.3	24.3						
8/4/2020	XX	GW402B440	0.008 U			0.1 U	67.1	0.508	12.3	25.3						
8/4/2020	XX	GW402B440R		133												
10/21/2020	XX	GW402B44J	0.008 U	128		0.102	69.4	1.33	14.8	26.4						
6/23/2021	XX	GW402B46E	0.008 U	123		0.274	62	2.31	12.2	24.3						
9/21/2021	XX	GW402B489	0.008 U	115		0.133	64.7	1.83	14.3	24.8						

LDS

6/10/2008	XX	LDSXX39597	0.01	130		3.2	38	6.2	1 U	25						
8/19/2008	XX	LDSXX39687	0.008	140		5.4	38	7.7	18	22						
10/22/2008	XX	LDSXX39736	0.006	190		10	41	12	20	21						
5/7/2009	XX	LDSXX39940	0.015	210		21	83	14	66	33						
8/12/2009	XX	LDSXX40037	0.018	150		19	75	11	60	36						
10/27/2009	XX	LDSXX40113	0.0092	160		9.8	61	8.9	50	30						
6/7/2010	XX	GWXXXX1B8	0.029	180		24	83	8.2	93	35						
8/18/2010	XX	GWXXXX1B9	0.034	140		16	75	5.4	110	37						
10/21/2010	XX	GWXXXX1BA	0.021	130		14	64	5.3	60	34						
5/18/2011	XX	LTXXXX1EF	0.013	110		9.1	39	5.8	32	26						
8/10/2011	XX	LTXXXX1G6	0.018	95		6.4	31	4.6	23	21						
11/2/2011	XX	LTXXXX1HH	0.014	110		6.8	37	5.2	27	25						
5/14/2012	XX	LTXXXX1JB	0.0062	170		8.4	73	6.2	70	41						
8/14/2012	XX	LTXXXX214	0.0061	29		4.8	26	1.5	5.5	5.1						
10/30/2012	XX	LTXXXX22I	0.019	150		6.2	67	5	73	39						
5/21/2013	XX	LTXXXX24C	0.01	140		6.5	62	5.3	56	36						
7/25/2013	XX	LTXXXX266	0.018	140		6.2	56	5.2	58	36						
10/1/2013	XX	LTXXXX280	0.017	150		6.3	59	5.1	50	34						
6/5/2014	XX	LTXXXX29E	0.02	159		5.91	82.6	4.53	89.8	44.1						
8/21/2014	XX	LTXXXX2B8	0.01	106		2.87	34.1	2.82	27.9	26.6						
11/13/2014	XX	LTXXXX2D2	0.008	122		3.05	30	1.71	17	27.3						
6/4/2015	XX	LTXXXX2EI	0.011	112		5.41	34.1	3.66	20.7	27						
9/3/2015	XX	LTXXXX2GD	0.018	120		5.98	33.1	3.95	23.4	29.6						
11/5/2015	XX	LTXXXX2I7	0.011	123		5.7	34.9	4.31	21.9	27.6						
6/16/2016	XX	LTXXXX31H	0.016	134		5.33	39.5	4.5	27.8	28.7						
9/22/2016	XX	LTXXXX33B	0.018	128		5.6	37.5	4.47	26.1	30.3						
11/10/2016	XX	LTXXXX355	0.008	120		5.64	34.9	4.34	23.3	26.9						
6/15/2017	XX	LTXXXX370	0.0143	160		5.21	63	5.55	57.2	37.9						
8/31/2017	XX	LTXXXX38E	0.016	140		4.13	47.9	4.4	41.4	34.2						
11/16/2017	XX	LTXXXX3A8	0.01	122		4.08	48	3.96	35.4	29.6						
6/21/2018	XX	LTXXXX3C3	0.018	143		5.12	53.8	4.66	43.8	32						
8/16/2018	XX	LTXXXX3CI	0.017	138		5.07	51.1	4.46	44	33						
11/29/2018	XX	LTXXXX3FB	0.011	146		3.98	84.3	3.99	75.6	45						
6/6/2019	XX	LTXXXX3H6	0.01	157		5.06	87.9	5.46	70.3	41.1						
8/15/2019	XX	LTXXXX3I1	0.015	144		5.16	71	4.86	62.9	38.2						
10/24/2019	XX	LTXXXX40E	0.013	133		7.9	48.7	3.76	36.6	33						

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Metals

(LDS)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
6/18/2020	XX	LTXXXX429	0.012	133		5.82	48.3	4.34	39.4	125							
8/6/2020	XX	LTXXXX434	0.017	142		5.74	52.8	4.45	44.1	97							
10/22/2020	XX	LTXXXX45H	0.008 U	137		6.01	52.7	4.51	39.7	88.8							
6/24/2021	XX	LTXXXX47C	0.016	102		6.16	31.1	3.55	66.2	42.2							
9/23/2021	XX	LTXXXX497	0.008	132		4.46	43.4	2.25	16.8	32.2							
LPD2																	
5/19/2005	XX	LTLPD2003	0.005 U	31		2.1	11	0.21	3	2.3							
8/2/2005	XX	LTLPD201F	0.005 U	62		1.8	61	0.67	10	9.8							
10/26/2005	XX	LTLPD2037	0.005 U	32		8.7	12	3.1	3.4	2.3							
5/10/2006	XX	LTLPD2083	0.005 U	31		0.47	9.3	0.15	2.6	2							
7/24/2006	XX	LTLPD206B	0.005 U	28		2.3 B	10	0.53	2.7	2.5							
10/10/2006	XX	LTLPD204J	0.005 U	50		2	52	0.6	9	9.1							
5/21/2007	XX	LTLPD209F	0.005 U	26		0.59	9.3	0.15	3.2	2							
8/6/2007	XX	LTLPD20B8	0.017	45		5.6	60	0.06	10	12							
10/24/2007	XX	LTLPD20D0	0.005 U	22		1.8	11	0.47	3.8	2.1							
5/28/2008	XX	LTLPD20F8	0.005 U	30		1.4	16	0.45	3.6	2.9							
8/11/2008	XX	LTLPD20H8	0.005 U	32		0.54	9.6	0.19	1.7	1.6							
10/15/2008	XX	LTLPD20IG	0.005 U	35		2.4	9.5	0.27	3.7	2.2							
5/6/2009	XX	LTLPD210G	0.005 U	23		0.77	7.9	0.11	2.2	1.5							
5/6/2009	XD	GWDP2X10B	0.005 U	23		0.77	7.8	0.11	2.3	1.5							
8/4/2009	XX	LTLPD212G	0.005 U	23		1.2	7	0.26	1.4	1.2							
10/19/2009	XX	LTLPD2144	0.005 U	22		1.2	7.5	0.23	2.8	1.7							
10/19/2009	XD	GWDP2X15F	0.005 U	23		1.2	7.8	0.24	3	1.7							
5/25/2010	XX	LTLPD2165	0.005 U	45		1.4	17	1	4	3							
8/2/2010	XX	LTLPD2186	0.005 U	19		4.2	16	0.25	3.2	2.7							
10/12/2010	XX	LTLPD219E	0.005 U	25		2.6	8.3	0.7	3	1.5							
10/12/2010	XD	GWDP2X1B5	0.005 U	13		1.4	4.4	0.38	1.6	1.2							
5/18/2011	XX	LTXXXX1EE	0.005 U	13		0.4	2.8	0.023	1.5	1 U							
8/10/2011	XX	LTXXXX1G5	0.01	36		4.7	36	0.83	6.8	6.8							
11/2/2011	XX	LTXXXX1HG	0.0025 J	40		7.5	18	2	5.1	2.8							
5/14/2012	XX	LTXXXX1JA	0.005 U	19		0.53	4.6	0.055	1.8	1							
8/14/2012	XX	LTXXXX213	0.023	130		6.5	54	5.1	52	36							
10/30/2012	XX	LTXXXX22H	0.005 U	36		4.9	12	2	4.9	2.1							
5/21/2013	XX	LTXXXX24B	0.005 U	12		0.83	4.3	0.074	1.4	1 U							
7/25/2013	XX	LTXXXX265	0.005 U	16		1.4	7.2	0.29	2.2	1.6							
10/1/2013	XX	LTXXXX27J	0.005 U	24		3.4	6.7	0.43	2.5	1.3							
6/5/2014	XX	LTXXXX29D	0.008 U	17.4		1.3	5.74	0.277	1.62	1 U							
8/21/2014	XX	LTXXXX2B7	0.024	36.5		9.6	31	1.38	6.58	5.18							
11/13/2014	XX	LTXXXX2D1	0.008	35.2		13	9.16	3.2	3.16	1.7							
6/4/2015	XX	LTXXXX2EH	0.008 U	16.2		1.23	3.82	0.09	1.61	1 U							
9/3/2015	XX	LTXXXX2GC	0.008 U	23.8		1.76	12.3	0.261	3.86	2.39							
11/5/2015	XX	LTXXXX2I6	0.009	37.4		15.2	14	4.12	3.98	2.16							
6/16/2016	XX	LTXXXX31G	0.008 U	46.1		1.78	37.2	0.975	5.6	5.86							
9/22/2016	XX	LTXXXX33A	D	D		D	D	D	D	D							
11/10/2016	XX	LTXXXX354	D	D		D	D	D	D	D							
6/15/2017	XX	LTXXXX36J	0.008 U	21.5		1.97	7.03	0.408	2.15	1.54							
8/31/2017	XX	LTXXXX38D	0.008 U	41.8		3.54	31.8	1.22	6.75	6.19							
11/16/2017	XX	LTXXXX3A7	0.008 U	38.1		5.62	9.67	1.93	3.4	1.99							
6/21/2018	XX	LTXXXX3C2	0.008 U	32.6		2.27	21.1	0.638	4.06	3.61							

SUMMARY REPORT

Metals

(LPD2)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
8/16/2018	XX	LTXXX3CH	0.008 U	22.9		0.792	12.2	0.245	3.3	2.21							
11/29/2018	XX	LTXXX3FA	0.008 U	39.2		8.37	9.18	2.78	3.13	1.74							
6/6/2019	XX	LTXXX3H5	0.008 U	14.8		1.28	3.32	0.0706	1.15	1 U							
8/15/2019	XX	LTXXX3I0	0.008 U	39.9		3.18	27.6	1.04	4.96	4.68							
10/24/2019	XX	LTXXX40D	0.008 U	23.6		3.62	7.44	1.02	2.82	1.57							
6/18/2020	XX	LTXXX428	0.008 U	41		1.4	21.7	0.576	4.71	3.77							
8/6/2020	XX	LTXXX433	0.011	46.3		13	44	1.32	7.67	10							
10/22/2020	XX	LTXXX45G	0.008 U	26.9		0.193	5.6	0.534	2.69	1.21							
6/24/2021	XX	LTXXX47B	0.008 U	53.2		2.94	27.1	1.23	5.55	4.37							
9/23/2021	XX	LTXXX496	0.008 U	16.5		0.302	8.14	0.0865	2.21	1.62							
ND																	
5/3/2000	XX	NDXX36649				D				D							
8/9/2000	XX	NDXX36747				D				D							
11/8/2000	XX	NDXX36838				D				D							
5/16/2001	XX	NDXX37027	D			D		D	D	D							
7/31/2001	XX	NDXX37103	D			D		D	D	D							
10/23/2001	XX	NDXX37187	D			D		D	D	D							
5/21/2002	XX	NDXX37397	D	D		D	D	D	D	D							
7/30/2002	XX	NDXX37467	D	D		D	D	D	D	D							
10/22/2002	XX	NDXX37551	D	D		D	D	D	D	D							
6/23/2003	XX	NDXX37795	D	D		D	D	D	D	D							
8/13/2003	XX	NDXX37846	D	D		D	D	D	D	D							
10/20/2003	XX	NDXX37914	D	D		D	D	D	D	D							
5/6/2004	XX	NDXX38113	D	D		D	D	D	D	D							
7/27/2004	XX	NDXX38195	D	D		D	D	D	D	D							
10/25/2004	XX	NDXX38285	D	D		D	D	D	D	D							
5/12/2005	XX	SWNDXX016	D	D		D	D	D	D	D							
7/25/2005	XX	SWNDXX021	D	D		D	D	D	D	D							
11/10/2005	XX	SWNDXX04A	0.005 U	26		0.64	3	0.04	4.4	1.3							
5/2/2006	XX	SWNDXX096	0.005 U	26		3.5	3.4	0.26	6.2	2.1							
8/3/2006	XX	SWNDXX07E	D	D		D	D	D	D	D							
10/18/2006	XX	SWNDXX062	D	D		D	D	D	D	D							
5/21/2007	XX	SWNDXX0A1	D	D		D	D	D	D	D							
8/8/2007	XX	SWNDXX0CB	D	D		D	D	D	D	D							
11/6/2007	XX	SWNDXX0E3	D	D		D	D	D	D	D							
6/11/2008	XX	SWNDXX0GB	0.005 U	52		0.26	4.9	0.041	7.1	2.4							
8/19/2008	XX	SWNDXX0IB	D	D		D	D	D	D	D							
10/22/2008	XX	SWNDXX0JJ	D	D		D	D	D	D	D							
5/18/2009	XX	SWNDXX11J	D	D		D	D	D	D	D							
8/17/2009	XX	SWNDXX13J	D	D		D	D	D	D	D							
10/29/2009	XX	SWNDXX157	D	D		D	D	D	D	D							
6/7/2010	XX	SWNDXX178	0.005 U	59		0.053	2.6	0.021	3.8	1							
8/18/2010	XX	SWNDXX199	D	D		D	D	D	D	D							
10/21/2010	XX	SWNDXX1AH	D	D		D	D	D	D	D							
5/18/2011	XX	SWXXX1E9	0.005 U	30		0.082	2.6	0.53	2.6	1.1							
8/10/2011	XX	SWXXX1G0	D	D		D	D	D	D	D							
11/2/2011	XX	SWXXX1HB	D	D		D	D	D	D	D							
5/14/2012	XX	SWXXX1J5	D	D		D	D	D	D	D							
8/14/2012	XX	SWXXX201	F6	F6		F6	F6	F6	F6	F6							

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 FOR: Dolby Landfill

SUMMARY REPORT
Metals

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(ND)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
10/29/2012	XX	SWXXX22C	D	D		D	D	D	D	D							
5/21/2013	XX	SWXXX246	D	D		D	D	D	D	D							
7/24/2013	XX	SWXXX260	D	D		D	D	D	D	D							
10/1/2013	XX	SWXXX27E	D	D		D	D	D	D	D							
6/5/2014	XX	SWXXX298	D	D		D	D	D	D	D							
8/21/2014	XX	SWXXX2B2	D	D		D	D	D	D	D							
11/13/2014	XX	SWXXX2CG	D	D		D	D	D	D	D							
6/4/2015	XX	SWXXX2EC	D	D		D	D	D	D	D							
9/3/2015	XX	SWXXX2G7	D	D		D	D	D	D	D							
11/5/2015	XX	SWXXX2I1	I	I		I	I	I	I	I							
6/16/2016	XX	SWXXX31B	D	D		D	D	D	D	D							
9/22/2016	XX	SWXXX335	D	D		D	D	D	D	D							
11/10/2016	XX	SWXXX34J	D	D		D	D	D	D	D							
6/15/2017	XX	SWXXX36E	D	D		D	D	D	D	D							
8/31/2017	XX	SWXXX388	D	D		D	D	D	D	D							
11/16/2017	XX	SWXXX3A2	D	D		D	D	D	D	D							
6/21/2018	XX	SWXXX3BH	D	D		D	D	D	D	D							
8/16/2018	XX	SWXXX3CC	D	D		D	D	D	D	D							
6/6/2019	XX	SWXXX3H0	D	D		D	D	D	D	D							
8/15/2019	XX	SWXXX3HF	D	D		D	D	D	D	D							
10/24/2019	XX	SWXXX408	I	I		I	I	I	I	I							
6/18/2020	XX	SWXXX423	D	D		D	D	D	D	D							
8/6/2020	XX	SWXXX42I	D	D		D	D	D	D	D							
10/22/2020	XX	SWXXX45B	D	D		D	D	D	D	D							
6/24/2021	XX	SWXXX476	D	D		D	D	D	D	D							
9/23/2021	XX	SWXXX491	D	D		D	D	D	D	D							
PBF																	
5/3/2000	XX	PBFXX36649				0.17		0.057	0.84	2.73							
8/9/2000	XX	PBFXX36747				0.111		0.06	2.28	18.94							
11/8/2000	XX	PBFXX36838	0.008 U			0.161		0.02	0.7	3.6							
5/16/2001	XX	PBFXX37027	0.008 U			1.424		2.53	2.49	22							
7/31/2001	XX	PBFXX37103	0.008 U			1.13		1.12	1.25	6.1							
10/23/2001	XX	PBFXX37187	0.008 U			0.265		0.69	2.32	19							
5/21/2002	XX	PBFXX37397	0.01 U	67.3		5.39	10.3	2.12	2.356	19.1							
8/8/2002	XX	PBFXX37476	0.01 U	12.1	0.01 U	2.35	3	1.53	0.7	4.4							
10/24/2002	XX	PBFXX37553	0.01 U	2.5	0.01 U	0.216	2	0.02	0.69	2.9							
6/26/2003	XX	PBFXX37798	0.005 U	8	0.003 U	0.67	2	0.33	1 U	2.9							
8/13/2003	XX	PBFXX37846	0.005 U	10	0.012	0.82	2.7	0.29	1 U	3.2							
10/23/2003	XX	PBFXX37917	0.005 U	12	0.003 U	0.66	2.5	0.22	1.2	3.5							
5/6/2004	XX	PBFXX38113	0.005 U	7.8	0.003 U	0.9	2.2	0.033	1 U	1.5							
7/27/2004	XX	PBFXX38195	0.005 U	24	0.003 U	1	3.2	1.4	1.3	5							
10/25/2004	XX	PBFXX38285	0.005 U	8.4	0.003 U	0.23	2.3	0.088	1.1	1.9							
5/12/2005	XX	SWPBFX017	0.005 U	8.2	0.003 U	0.51	2	0.14	1.5	1.9							
7/25/2005	XX	SWPBFX02J	0.005 U	6.8	0.003 U	1.3	2	0.82	1 U	2							
11/10/2005	XX	SWPBFX04B	0.005 U	6.5	0.009	0.25	1.8	0.04	1.6	1.9							
5/2/2006	XX	SWPBFX097	0.005 U	14	0.005	0.4	2.6	0.13	2.3	4.7							
8/3/2006	XX	SWPBFX07F	0.005 U	9.4	0.003 U	1.1	2.8	0.14	2.1	2.2							
10/18/2006	XX	SWPBFX063	0.005 U	11	0.003 U	0.32 B	2.6	0.3	2.1	2.6							
5/21/2007	XX	SWPBFX0AJ	0.005 U	8.3	0.004	0.21	2.4	0.033	1.7	2.6							

SUMMARY REPORT

Metals

(PBF)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium					
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
Date	Type	Sample ID													
8/8/2007	XX	SWPBFX0CC	0.005 U	6	0.005	0.41	1.9	0.097	1 U	1.9					
11/6/2007	XX	SWPBFX0E4	0.005 U	7.3	0.003 U	0.3	1.8	0.06	1.5	2.4					
6/11/2008	XX	SWPBFX0GC	0.005 U	44	0.0085	0.4	9.4	0.36	35	16					
8/19/2008	XX	SWPBFX0IC	0.005 U	9.6	0.003 U	0.45	2.5	0.15	2.1	2					
10/22/2008	XX	SWPBFX100	0.005 U	6.4	0.003 U	0.36	2	0.12	1.1	1.7					
5/7/2009	XX	SWPBFX120	0.005 U	5.2		0.43	1.4	0.28	1 U	1.5					
8/12/2009	XX	SWPBFX140	0.005 U	24	0.003 U	0.58	2.6	0.99	2.2	2.9					
10/27/2009	XX	SWPBFX158	0.005 U	10	0.003 U	0.1	1.7	0.04	2.4	2.7					
6/7/2010	XX	SWPBFX179	0.005 U	14	0.001 U	0.14	2	0.19	2.5	6.9					
8/18/2010	XX	SWPBFX19A	0.005 U	3.6	0.001 U	0.18	1.2	0.038	1 U	1.4					
10/21/2010	XX	SWPBFX1AI	0.005 U	4.7	0.003 U	0.24	1.3	0.025	1 U	1.6					
5/18/2011	XX	SWXXXX1E8	0.005 U	5.2	0.00029 J	0.31	1.4	0.055	1 U	2.2					
8/10/2011	XX	SWXXXX1FJ	0.0016 U	4.1	0.00034 U	0.21	1.5	0.05	0.43	1.5					
8/10/2011	XD	LTDP3X1G9	0.0016 U	4	0.00034 U	0.2	1.4	0.048	0.42	1.4					
11/2/2011	XX	SWXXXX1HA	0.0016 U	12	0.00028 U	0.093	1.8	0.11	1.6	3.6					
PBFR															
5/14/2012	XX	SWXXXX1J4	0.005 U	11	0.003 U	0.088	1.6	0.044	2	4.1					
8/14/2012	XX	SWXXXX20H	0.005 U	12	0.0031	2.4	2.2	0.99	1.3	2.6					
10/29/2012	XX	SWXXXX22B	0.005 U	15	0.003 U	0.12	3.1	0.037	1.6	4.2					
10/29/2012	XD	SWDP2X230	0.005 U	14	0.003 U	0.13	3.1	0.041	1.6	4.3					
5/21/2013	XX	SWXXXX245	0.005 U	5	0.003 U	0.27	1.4	0.085	1 U	1.3					
5/21/2013	XD	SWDP2X24E	0.005 U	5	0.003 U	0.27	1.4	0.086	1 U	1.3					
7/24/2013	XX	SWXXXX25J	0.005 U	4.4	0.003 U	0.84	1.2	0.24	1 U	1.2					
7/24/2013	XD	SWDP2X268	0.005 U	4.2	0.003 U	0.44	1.2	0.079	1 U	1.1					
10/1/2013	XX	SWXXXX27D	0.005 U	5	0.003 U	0.43	1.4	0.25	1 U	1.5					
10/1/2013	XD	SWDP3X282	0.005 U	5.9	0.003 U	0.27	1.6	0.064	1 U	1.6					
6/5/2014	XX	SWXXXX297	0.008 U	5.12	0.025 U	0.347	1.5	0.139	1 U	1.58					
6/5/2014	XD	SWDP2X29G	0.008 U	4.93	0.025 U	0.461	1.47	0.132	1 U	1.51					
8/21/2014	XX	SWXXXX2B1	0.008 U	5.22	0.025 U	0.359	1.7	0.153	1 U	1.6					
8/21/2014	XD	SWDP2X2BA	0.008 U	5.15	0.025 U	0.375	1.69	0.158	1 U	1.64					
11/13/2014	XX	SWXXXX2CF	0.008 U	6.54	0.025 U	0.194	1.73	0.0262	1 U	2.06					
11/13/2014	XD	SWDP3X2D4	0.008 U	6.41	0.025 U	0.185	1.72	0.0244	1 U	2.03					
6/4/2015	XX	SWXXXX2EB	0.008 U	12.3	0.025 U	0.941	1.56	0.948	1.45	4.76					
6/4/2015	XD	SWDP2X2F0	0.008 U	12.1	0.025 U	0.21	1.49	0.652	1.44	4.9					
9/3/2015	XX	SWXXXX2G6	0.008 U	8.2	0.025 U	0.558	2.06	0.73	1 U	2.12					
9/3/2015	XD	SWDP2X2GF	0.008 U	8.01	0.025 U	0.415	2.03	0.531	1 U	2.14					
11/5/2015	XX	SWXXXX2I0	0.008 U	7.18	0.025 U	0.307	1.82	0.038	1 U	2.1					
11/5/2015	XD	SWDP3X2I9	0.008 U	8.04	0.025 U	0.28	1.74	0.052	1.05	2.48					
6/16/2016	XD	SWDP2X31J	0.008 U	5.78	0.025 U	0.267	1.78	0.073	1 U	1.75					
6/16/2016	XX	SWXXXX31A	0.008 U	5.81	0.025 U	0.339	1.82	0.106	1 U	1.81					
9/22/2016	XD	SWDP2X33D	0.008 U	5.9	0.025 U	0.341	1.95	0.125	1 U	2.14					
9/22/2016	XX	SWXXXX334	0.008 U	5.69	0.025 U	0.332	1.96	0.121	1 U	2.08					
11/10/2016	XD	SWDP3X357	0.008 U	7	0.025 U	0.188	2.08	0.02	1 U	1.99					
11/10/2016	XX	SWXXXX34I	0.008 U	6.89	0.025 U	0.173	2.07	0.019	1 U	2					
6/15/2017	XD	SWDP2X372	0.008 U	6.58	0.025 U	0.248	1.77	0.0328	1 U	1.65					
6/15/2017	XX	SWXXXX36D	0.008 U	6.7	0.025 U	0.253	1.8	0.0325	1 U	1.69					
8/31/2017	XD	SWDP2X38G	0.008 U	9.91	0.025 U	1.33	2.48	1.13	1 U	2.07					
8/31/2017	XX	SWXXXX387	0.008 U	8.62	0.025 U	0.296	2.35	0.36	1 U	2.09					
11/16/2017	XD	SWDP3X3AA	0.008 U	10.8	0.025 U	3.74	2.68	2.06	1.2	2.63					

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 FOR: Dolby Landfill

SUMMARY REPORT

Metals

SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(PBFR)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
11/16/2017	XX	SWXXXX3A1	0.008 U	11	0.025 U	3.15	2.5	1.62	1.3	2.73							
6/21/2018	XD	SWDP2X3C5	0.008 U	6.3	0.025 U	0.346	1.71	0.0785	1 U	1.68							
6/21/2018	XX	SWXXXX3BG	0.008 U	6.3	0.025 U	0.341	1.69	0.0789	1 U	1.7							
8/16/2018	XD	SWDP2X3D0	0.008 U	6.35	0.025 U	0.383	1.84	0.0957	1 U	1.74							
8/16/2018	XX	SWXXXX3CB	0.008 U	6.65	0.025 U	0.369	1.89	0.0888	1 U	1.8							
11/29/2018	XD	SWDP3X3FD	0.008 U	52.5	0.025 U	0.1 U	4.6	0.0465	1.9	5.02							
11/29/2018	XX	SWXXXX3F4	0.008 U	50.3	0.025 U	0.468	4.54	0.251	1.86	4.83							
6/6/2019	XD	SWDP2X3H8	0.008 U	7.98	0.025 U	0.229	1.74	0.0502	1 U	2.04							
6/6/2019	XX	SWXXXX3GJ	0.008 U	14.7	0.025 U	0.267	2.17	0.548	1.23	2.44							
8/15/2019	XD	SWDP2X3I3	0.008 U	6.23	0.025 U	0.124	1.88	0.0361	1 U	1.89							
8/15/2019	XX	SWXXXX3HE	0.008 U	6.26	0.025 U	0.133	1.88	0.0415	1 U	1.9							
10/24/2019	XD	SWDP3X40G	0.008 U	12	0.025 U	0.266	1.96	0.0405	1.38	2.44							
10/24/2019	XX	SWXXXX407	0.008 U	11.8	0.025 U	0.271	1.93	0.0402	1.4	2.44							
6/18/2020	XD	SWDP2X42B	0.008 U	5.66	0.025 U	0.426	1.64	0.164	1 U	1.92							
6/18/2020	XX	SWXXXX422	0.008 U	5.52	0.025 U	0.433	1.63	0.16	1 U	1.89							
8/6/2020	XD	SWDP2X436	0.008 U	5.26	0.025 U	0.278	1.87	0.054	1 U	2.02							
8/6/2020	XX	SWXXXX42H	0.008 U	5.01	0.025 U	0.213	1.82	0.0319	1 U	1.96							
10/22/2020	XD	SWDP3X45J	0.008 U	16.2	0.025 U	0.1 U	2.27	0.0319	1.2	3.33							
10/22/2020	XX	SWXXXX45A	0.008 U	16.5	0.025 U	0.101	2.42	0.0353	1.24	3.42							
6/24/2021	XX	SWXXXX475	0.008 U	6.18	0.025 U	0.264	1.91	0.0911	1 U	2.01							
6/24/2021	XD	SWDP2X47E	0.008 U	6.16	0.025 U	0.468	1.91	0.188	1 U	1.98							
9/23/2021	XX	SWXXXX490	0.008 U	6.91	0.025 U	0.155	2.13	0.0982	1 U	2.12							
9/23/2021	XD	SWDP3X499	0.008 U	6.86	0.025 U	0.147	2.14	0.0994	1 U	2.12							

PBFB																	
5/3/2000	XX	PBFBXX36649				0.28		0.054	0.55	1.53							
8/9/2000	XX	PBFBXX36747				2.592		0.07	0.15	1.16							
11/8/2000	XX	PBFBXX36838	0.008 U			0.369		0.09	0.48	1.9							
5/16/2001	XX	PBFBXX37027	0.008 U			0.502		0.09	0.48	1.7							
7/31/2001	XX	PBFBXX37103	0.008 U			1.043		0.23	0.2	1.7							
10/24/2001	XX	PBFBXX37188	0.008 U			0.413		1.58	0.29	2.2							
5/21/2002	XX	PBFBXX37397	0.01 U	3.5		0.388	1	0.21	0.146	2.2							
8/6/2002	XX	PBFBXX37474	0.01 U	6.7		3.18	2	0.99	0.16	1.8							
10/24/2002	XX	PBFBXX37553	0.01 U	2.5		0.392	1	0.15	0.18	2.1							
6/26/2003	XX	PBFBXX37798	0.005 U	5		0.76	2	0.72	1 U	2.1							
8/13/2003	XX	PBFBXX37846	0.005 U	5.4		0.95	1.9	0.15	1 U	2.2							
10/23/2003	XX	PBFBXX37917	0.005 U	4.6		0.57	1	0.5	1 U	1.5							
5/6/2004	XX	PBFBXX38113	0.005 U	6.6		0.9	1.9	0.13	1 U	1.6							
7/27/2004	XX	PBFBXX38195	0.005 U	4.7		1.6	1.5	0.52	1 U	1.9							
10/25/2004	XX	PBFBXX38285	0.005 U	5.8		1.8	1.2	0.62	1 U	1.6							
5/12/2005	XX	SWPBFB018	0.005 U	5.8		0.53	1.6	0.12	1.2	1.5							
7/25/2005	XX	SWPBFB030	0.005 U	7.2		1.6	2	0.52	1.4	2							
11/10/2005	XX	SWPBFB04C	0.005 U	4.2		0.71	1 U	0.57	1	1.3							
5/2/2006	XX	SWPBFB098	0.005 U	4.4		0.37	1.3	0.12	1.4	1.5							
8/3/2006	XX	SWPBFB07G	0.005 U	6.4		1.2	1.7	0.24	1 U	1.6							
10/18/2006	XX	SWPBFB064	0.005 U	3.9		0.74 B	1 U	0.72	1 U	1.3							
5/21/2007	XX	SWPBFB0B0	0.005 U	3.7		0.36	1	0.1	1 U	1.5							
8/8/2007	XX	SWPBFB0CD	0.005 U	7.1		1.5	1.8	0.59	1 U	1.6							
11/6/2007	XX	SWPBFB0E5	0.005 U	3.8		0.34	1 U	0.23	1 U	1.5							
6/11/2008	XX	SWPBFB0GD	0.005 U	4.8		0.49	1 U	0.13	1 U	1.3							

SUMMARY REPORT

Metals

(PBFB)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium									
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Date	Type	Sample ID																	
8/19/2008	XX	SWPBFB0ID	0.005 U	6.4		0.77	1.9	0.33	1 U	1.4									
10/22/2008	XX	SWPBFB101	0.005 U	6.9		0.97	1.5	0.64	1 U	1.6									
5/7/2009	XX	SWPBFB121	0.005 U	3.7		0.51	1.1	0.13	1 U	1.1									
8/12/2009	XX	SWPBFB141	0.005 U	8.1		2.2	1.4	1.4	1 U	1.1									
10/27/2009	XX	SWPBFB159	0.005 U	4		0.39	1 U	0.051	1 U	1.2									
6/7/2010	XX	SWPBFB17A	0.005 U	3.2		4	1 U	0.29	1 U	1 U									
8/18/2010	XX	SWPBFB19B	0.005 U	5.6		0.77	1.5	0.9	1 U	1 U									
10/21/2010	XX	SWPBFB1AJ	0.005 U	3.8		0.29	1 U	0.11	1 U	1.1									
5/18/2011	XX	SWXXX1E7	0.005 U	3.8		0.35	1.1	0.021	1 U	1.2									
8/10/2011	XX	SWXXX1FI	0.0016 U	3.9		0.56	1.4	0.068	0.4	1.4									
11/2/2011	XX	SWXXX1H9	0.0016 U	3.2		0.89	1.1	0.052	0.53 J	1.3									
5/14/2012	XX	SWXXX1J3	0.005 U	4.6		0.76	1.4	0.05	1 U	1.6									
8/14/2012	XX	SWXXX20G	0.005 U	4.8		2.3	1	0.18	1 U	1.3									
10/29/2012	XX	SWXXX22A	0.005 U	4.7		0.27	1.3	0.016	1 U	1.6									
5/21/2013	XX	SWXXX244	0.005 U	2.6		0.18	1 U	0.017	1 U	1 U									
7/24/2013	XX	SWXXX25I	0.005 U	4.3		0.52	1.2	0.031	1 U	1.1									
10/1/2013	XX	SWXXX27C	0.005 U	4.6		0.16	1.3	0.018	1 U	1.3									
6/5/2014	XX	SWXXX296	0.008 U	4.65		1.34	1.32	0.0816	1 U	1.42									
8/21/2014	XX	SWXXX2B0	0.008 U	4.48		0.706	1.55	0.0598	1 U	1.45									
11/13/2014	XX	SWXXX2CE	0.008 U	4.59		0.474	1.54	0.034	1 U	1.58									
6/4/2015	XX	SWXXX2EA	0.008 U	3.47		0.256	1.24	0.027	1 U	1.32									
9/3/2015	XX	SWXXX2G5	0.008 U	4.74		0.337	1.58	0.048	1 U	1.64									
11/5/2015	XX	SWXXX2HJ	0.008 U	4.72		0.349	1.48	0.021	1 U	1.48									
6/16/2016	XX	SWXXX319	0.008 U	4.7		0.274	1.63	0.029	1 U	1.64									
9/22/2016	XX	SWXXX333	0.008 U	5.02		0.311	1.72	0.041	1 U	2.1									
11/10/2016	XX	SWXXX34H	0.008 U	4.16		0.255	1.48	0.018	1 U	1.62									
6/15/2017	XX	SWXXX36C	0.008 U	5.7		0.515	1.57	0.0566	1 U	1.56									
8/31/2017	XX	SWXXX386	0.008 U	5.83		0.457	1.95	0.0705	1 U	1.7									
11/16/2017	XX	SWXXX3A0	0.008 U	7.21		0.337	2.09	0.0287	1 U	2.05									
6/21/2018	XX	SWXXX3BF	0.008 U	5.28		0.385	1.54	0.0437	1 U	1.6									
8/16/2018	XX	SWXXX3CA	0.008 U	5.9		0.497	1.75	0.0494	1 U	1.48									
11/29/2018	XX	SWXXX3F3	0.008 U	7.15		0.252	2.09	0.031	1 U	1.97									
6/6/2019	XX	SWXXX3GI	0.008 U	4.89		0.511	1.48	0.0595	1 U	1.65									
8/15/2019	XX	SWXXX3HD	0.008 U	4.38		0.226	1.58	0.0267	1 U	1.48									
10/24/2019	XX	SWXXX406	0.008 U	5.78		0.952	1.41	0.153	1 U	1.73									
6/18/2020	XX	SWXXX421	0.008 U	4.85		0.562	1.51	0.104	1 U	1.79									
8/6/2020	XX	SWXXX42G	0.008 U	4.77		0.434	1.66	0.0323	1 U	1.56									
10/22/2020	XX	SWXXX459	0.008 U	6.01		0.291	1.78	0.055	1 U	2									
6/24/2021	XX	SWXXX474	0.008 U	5.34		0.497	1.74	0.0734	1 U	1.98									
9/23/2021	XX	SWXXX48J	0.008 U	5.84		0.904	1.7	0.0864	1 U	1.65									
SPO																			
5/3/2000	XX	SPOXX36649				D				D									
8/9/2000	XX	SPOXX36747				D				D									
11/8/2000	XX	SPOXX36838				D				D									
5/16/2001	XX	SPOXX37027	D			D		D	D	D									
7/31/2001	XX	SPOXX37103	D			D		D	D	D									
10/23/2001	XX	SPOXX37187	D			D		D	D	D									
5/21/2002	XX	SPOXX37397	D	D		D	D	D	D	D									
7/30/2002	XX	SPOXX37467	D	D		D	D	D	D	D									

SUMMARY REPORT

Metals

(SPO)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium								
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L								
Date	Type	Sample ID																
10/22/2002	XX	SPOXX37551	D	D		D	D	D	D	D								
6/23/2003	XX	SPOXX37795	D	D		D	D	D	D	D								
8/13/2003	XX	SPOXX37846	D	D		D	D	D	D	D								
10/20/2003	XX	SPOXX37914	D	D		D	D	D	D	D								
5/6/2004	XX	SPOXX38113	0.005 U	27		0.94	3.3	0.14	5.2	3.9								
7/27/2004	XX	SPOXX38195	D	D		D	D	D	D	D								
10/25/2004	XX	SPOXX38285	D	D		D	D	D	D	D								
5/12/2005	XX	SWSPOX01A	D	D		D	D	D	D	D								
7/25/2005	XX	SWSPOX032	D	D		D	D	D	D	D								
11/10/2005	XX	SWSPOX04E	0.005 U	36		1.4	4.7	0.64	4.6	4								
5/2/2006	XX	SWSPOX09A	0.005 U	29		1.3	3.2	0.2	7	8.7								
8/3/2006	XX	SWSPOX07I	0.005 U	26		5.7	2.6	3.6	3.7	4.5								
10/18/2006	XX	SWSPOX066	0.005 U	15		2.2 B	1.8	0.36	3.9	4.4								
5/21/2007	XX	SWSPOX0B2	0.005 U	19		0.86	2.6	0.21	2.9	7.3								
8/9/2007	XX	SWSPOX0CF	D	D		D	D	D	D	D								
11/6/2007	XX	SWSPOX0E7	0.005 U	9.8		0.32	1.4	0.04	2.4	2.1								
6/11/2008	XX	SWSPOX0GF	0.005 U	12		0.91	1.4	0.17	1.6	2.1								
8/19/2008	XX	SWSPOX0GJ	D	D		D	D	D	D	D								
10/22/2008	XX	SWSPOX103	D	D		D	D	D	D	D								
5/7/2009	XX	SWSPOX123	0.005 U	19		0.52	2.4	0.14	2.2	5.8								
8/17/2009	XX	SWSPOX127	D	D		D	D	D	D	D								
10/27/2009	XX	SWSPOX15B	0.005 U	11		0.31	1.4	0.036	2.4	2.7								
6/7/2010	XX	SWSPOX17C	0.005 U	12		1.6	1.3	0.2	1.3	5								
8/18/2010	XX	SWSPOX17H	D	D		D	D	D	D	D								
10/21/2010	XX	SWSPOX1B1	D	D		D	D	D	D	D								
5/18/2011	XX	SWXXX1EA	0.005 U	13		0.3	1.6	0.036	1.1	3.1								
8/10/2011	XX	SWXXX1G1	F6	F6		F6	F6	F6	F6	F6								
11/2/2011	XX	SWXXX1HC	F6	F6		F6	F6	F6	F6	F6								
5/14/2012	XX	SWXXX1J6	0.005 U	13		0.52	1.9	0.066	2.7	5.2								
8/14/2012	XX	SWXXX20J	F6	F6		F6	F6	F6	F6	F6								
10/29/2012	XX	SWXXX22D	0.005 U	14		1	1.8	0.71	3.3	5.5								
5/21/2013	XX	SWXXX247	0.005 U	8.4		2.2	1.4	0.55	1 U	3.1								
7/24/2013	XX	SWXXX261	0.005 U	8.4		1.8	1 U	0.39	1.1	1.2								
10/1/2013	XX	SWXXX27F	I	I		I	I	I	I	I								
6/5/2014	XX	SWXXX299	D	D		D	D	D	D	D								
8/21/2014	XX	SWXXX2B3	I	I		I	I	I	I	I								
11/13/2014	XX	SWXXX2CH	0.008 U	9.92		0.601	1.27	0.094	1.76	1.96								
6/4/2015	XX	SWXXX2ED	0.008 U	13		4.35	1.89	0.686	1.11	3								
9/3/2015	XX	SWXXX2G8	D	D		D	D	D	D	D								
11/5/2015	XX	SWXXX2I2	0.008 U	12		0.36	1.5	0.047	1.54	1.9								
6/16/2016	XX	SWXXX31C	D	D		D	D	D	D	D								
9/22/2016	XX	SWXXX336	D	D		D	D	D	D	D								
11/10/2016	XX	SWXXX350	I	I		I	I	I	I	I								
6/15/2017	XX	SWXXX36F	I	I		I	I	I	I	I								
8/31/2017	XX	SWXXX389	D	D		D	D	D	D	D								
11/16/2017	XX	SWXXX3A3	D	D		D	D	D	D	D								
6/21/2018	XX	SWXXX3B1	D	D		D	D	D	D	D								
8/16/2018	XX	SWXXX3CD	D	D		D	D	D	D	D								
6/6/2019	XX	SWXXX3H1	0.008 U	20.8		2.18	2.55	0.715	1.44	2.26								
8/15/2019	XX	SWXXX3HG	D	D		D	D	D	D	D								

SUMMARY REPORT

Metals

(SPO)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
10/24/2019	XX	SWXXXX409	0.008 U	11.7		0.331	1.33	0.0434	3.85	1.33							
6/18/2020	XX	SWXXXX424	D	D		D	D	D	D	D							
8/6/2020	XX	SWXXXX42J	I	I		I	I	I	I	I							
10/22/2020	XX	SWXXXX45C	I	I		I	I	I	I	I							
6/24/2021	XX	SWXXXX477	D	D		D	D	D	D	D							
9/23/2021	XX	SWXXXX492	D	D		D	D	D	D	D							
SPON																	
5/12/2005	XX	SWSPON01B	0.005	84		6.2	14	8.7	24	10							
7/25/2005	XX	SWSPON033	D	D		D	D	D	D	D							
11/10/2005	XX	SWSPON04F	0.005 U	110		1.2	21	9.3	14	13							
5/2/2006	XX	SWSPON09B	0.005 U	81		3.2	18	9.9	10	14							
8/3/2006	XX	SWSPON07J	0.005 U	200		1.5	61	17	82	36							
10/18/2006	XX	SWSPON067	0.005 U	90		1.4 B	23	6.4	20	16							
5/21/2007	XX	SWSPON0B3	0.005 U	78		0.56	16	1.5	14	14							
8/9/2007	XX	SWSPON0CG	D	D		D	D	D	D	D							
11/6/2007	XX	SWSPON0E8	0.005 U	42		0.73	7.1	0.82	7.6	4.1							
6/11/2008	XX	SWSPON0GG	0.005 U	48		1.4	8.1	0.59	17	5.8							
8/19/2008	XX	SWSPON0H0	0.005 U	75		2.6	15	9.5	13	8.8							
10/22/2008	XX	SWSPON104	0.005 U	130		1.2	26	8	22	16							
5/7/2009	XX	SWSPON124	0.005 U	77		0.31	23	0.4	14	16							
8/12/2009	XX	SWSPON128	0.005 U	76		0.8	13	1.6	6.9	7.5							
10/27/2009	XX	SWSPON15C	0.005 U	70		0.23	11	1.6	8.4	6.9							
6/7/2010	XX	SWSPON17D	0.005 U	62		0.42	5.6	0.8	3.8	2.7							
8/18/2010	XX	SWSPON17I	D	D		D	D	D	D	D							
10/21/2010	XX	SWSPON1B2	0.005 U	81		0.3	19	6	11	11							
5/18/2011	XX	SWXXX1EB	0.005 U	45		0.16	8.9	1.1	6.8	5.8							
8/10/2011	XX	SWXXX1G2	D	D		D	D	D	D	D							
11/2/2011	XX	SWXXX1HD	0.0016 U	94		0.42	30	9.1	20	19							
5/14/2012	XX	SWXXX1J7	0.005 U	37		0.86	8	1.4	8.2	4.8							
8/14/2012	XX	SWXXX210	F6	F6		F6	F6	F6	F6	F6							
10/29/2012	XX	SWXXX22E	0.005 U	100		1.3	27	10	21	18							
5/21/2013	XX	SWXXX248	0.005 U	76		0.85	26	3.4	18	18							
7/24/2013	XX	SWXXX262	0.005 U	37		4.7	12	4.8	8.9	5.3							
10/1/2013	XX	SWXXX27G	0.005 U	86		1.3	26	7.6	17	16							
6/5/2014	XX	SWXXX29A	0.008 U	100		1.38	35.2	8.36	25.4	25.2							
8/21/2014	XX	SWXXX2B4	0.008 U	56.8		0.686	21.9	1.58	27.2	12.2							
11/13/2014	XX	SWXXX2C1	0.008 U	77		6.89	24	7.67	15.2	15.4							
6/4/2015	XX	SWXXX2EE	0.008 U	75.3		8.66	24.4	8.78	14.7	20							
9/3/2015	XX	SWXXX2G9	0.008 U	105		3.68	34.6	16.2	18.6	24.7							
11/5/2015	XX	SWXXX2I3	0.008 U	73.9		1.3	24.7	5.92	15.2	17.1							
6/16/2016	XX	SWXXX31D	0.008 U	89		0.48	31.1	3.75	18.6	30.6							
9/22/2016	XX	SWXXX337	D	D		D	D	D	D	D							
11/10/2016	XX	SWXXX351	0.008 U	196		0.15	36.6	0.198	11.7	13							
6/15/2017	XX	SWXXX36G	0.008 U	94		0.199	34.7	0.692	5.83	21.7							
8/31/2017	XX	SWXXX38A	D	D		D	D	D	D	D							
11/16/2017	XX	SWXXX3A4	0.008 U	185		0.17	33.3	0.383	9.4	15.6							
6/21/2018	XX	SWXXX3BJ	D	D		D	D	D	D	D							
8/16/2018	XX	SWXXX3CE	D	D		D	D	D	D	D							
11/29/2018	XX	SWXXX3F7	0.008 U	98.4		0.744	15.7	0.971	4.47	5.91							

SUMMARY REPORT

Metals

(SPON)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium							
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Date	Type	Sample ID															
6/6/2019	XX	SWXXX3H2	0.008 U	93.6		0.394	24.9	4.28	10.9	13.8							
8/15/2019	XX	SWXXX3HH	0.008 U	62.8		1.55	21	1.95	3.87	18.4							
10/24/2019	XX	SWXXX40A	0.008 U	87.8		0.606	11.1	0.223	4.36	3.85							
6/18/2020	XX	SWXXX425	D	D		D	D	D	D	D							
8/6/2020	XX	SWXXX430	D	D		D	D	D	D	D							
10/22/2020	XX	SWXXX45D	0.008 U	56.2		0.656	12	0.0753	6.04	6.8							
6/24/2021	XX	SWXXX478	D	D		D	D	D	D	D							
9/23/2021	XX	SWXXX493	0.008 U	66.1		3.59	14.4	2.65	3.73	7.83							
SPOS																	
5/12/2005	XX	SWSP01C	0.006	58		25	12	4.2	3.5	36							
7/25/2005	XX	SWSP034	0.005 U	27		6.9	8	3.7	1 U	2							
11/10/2005	XX	SWSP04G	0.005 U	14		0.08	4.8	0.05	1.6	3.2							
5/2/2006	XX	SWSP09C	0.005 U	15		0.19	4.6	0.04	1.6	4.4							
8/3/2006	XX	SWSP080	0.005 U	24		0.32	7	0.22	1.4	4							
10/18/2006	XX	SWSP068	0.005 U	17		0.09 B	5.3	0.04	2.6	3.9							
5/21/2007	XX	SWSP0B4	0.005 U	11		0.051	3.9	0.011	1.4	4.7							
8/8/2007	XX	SWSP0CH	0.005 U	19		3.6	4.9	4.8	1 U	1.5							
11/6/2007	XX	SWSP0E9	0.005 U	12		0.06	4	0.01	1.3	4							
11/6/2007	XD	SWDP4X0F1	0.005 U	12		0.06	4	0.01	1.3	4.1							
6/11/2008	XX	SWSP0GH	0.005 U	14		0.23	3.6	0.12	1.6	4.7							
8/19/2008	XX	SWSP0H1	0.005 U	24		1	6.9	1.3	1.3	3.8							
10/22/2008	XX	SWSP0105	0.005 U	23		0.15	6.2	0.17	4.9	5							
5/7/2009	XX	SWSP0125	0.005 U	13		0.059	3.9	0.04	1.2	3.7							
8/12/2009	XX	SWSP0129	0.005 U	28		0.72	5.9	1.1	1.3	3.6							
10/27/2009	XX	SWSP015D	0.005 U	11		0.071	3.3	0.034	1.2	3							
6/7/2010	XX	SWSP017E	0.005 U	12		0.21	3.3	0.18	1.3	4							
8/18/2010	XX	SWSP017J	D	D		D	D	D	D	D							
10/21/2010	XX	SWSP01B3	0.005 U	16		0.1	4.7	0.063	1	4							
10/21/2010	XD	SWDP4X1B7	0.005 U	16		0.097	4.7	0.06	1 U	3.8							
5/18/2011	XX	SWXXX1EC	0.005 U	10		0.047	3.1	0.01 U	1.2	3.1							
8/10/2011	XX	SWXXX1G3	F6	F6		F6	F6	F6	F6	F6							
11/2/2011	XX	SWXXX1HE	0.0016 U	14		0.08	4.4	0.041	0.84 J	3.6							
5/14/2012	XX	SWXXX1J8	0.005 U	12		0.045	3.7	0.012	1.4	3.1							
8/14/2012	XX	SWXXX211	F6	F6		F6	F6	F6	F6	F6							
10/29/2012	XX	SWXXX22F	0.005 U	17		0.076	5	0.039	1.5	4.2							
5/21/2013	XX	SWXXX249	0.005 U	13		0.045	4	0.029	1.3	2.9							
7/24/2013	XX	SWXXX263	0.005 U	14		0.2	4.4	0.14	1 U	2.8							
10/1/2013	XX	SWXXX27H	0.005 U	22		0.26	6.8	0.24	1 U	3.5							
6/5/2014	XX	SWXXX29B	0.008 U	22.5		0.175	6.63	0.507	1.55	3.73							
8/21/2014	XX	SWXXX2B5	0.008 U	21.7		3.13	5.93	2.37	1 U	2.29							
11/13/2014	XX	SWXXX2CJ	0.008 U	11.7		0.1 U	3.95	0.0394	1.13	2.84							
6/4/2015	XX	SWXXX2EF	0.008 U	11.2		0.223	3.9	0.122	1.16	2.57							
9/3/2015	XX	SWXXX2GA	0.008 U	28.8		7.42	7.02	5.34	1 U	3.13							
11/5/2015	XX	SWXXX2I4	0.008 U	12.6		0.1 U	4.2	0.046	1.02	2.73							
6/16/2016	XX	SWXXX31E	D	D		D	D	D	D	D							
9/22/2016	XX	SWXXX338	D	D		D	D	D	D	D							
11/10/2016	XX	SWXXX352	0.008 U	27.5		0.196	6.14	0.101	1.7	4							
6/15/2017	XX	SWXXX36H	0.008 U	20.6		0.218	4.99	0.131	1 U	3.11							
8/31/2017	XX	SWXXX38B	D	D		D	D	D	D	D							

(SPOS)			Arsenic	Calcium	Copper	Iron	Magnesium	Manganese	Potassium	Sodium									
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Date	Type	Sample ID																	
11/16/2017	XX	SWXXX3A5	0.008 U	14.9		0.1 U	4.35	0.0785	1	2.94									
6/21/2018	XX	SWXXX3C0	0.008 U	25.7		0.553	6.35	0.131	1 U	3.7									
8/16/2018	XX	SWXXX3CF	0.008 U	21.4		0.568	5.36	0.606	1 U	2.7									
11/29/2018	XX	SWXXX3F8	0.008 U	12.1		0.1 U	3.6	0.206	1 U	2.56									
6/6/2019	XX	SWXXX3H3	0.008 U	15.2		0.33	4.39	0.0919	1.41	2.45									
8/15/2019	XX	SWXXX3HI	0.008 U	24.4		0.704	5.88	0.211	1 U	3.34									
10/24/2019	XX	SWXXX40B	0.008 U	14		0.132	3.94	0.0265	1.71	2.67									
6/18/2020	XX	SWXXX426	0.008 U	25.9		2.2	5.86	1.49	1.75	3.41									
8/6/2020	XX	SWXXX431	0.008 U	28.4		1.85	6.11	1.13	1.23	2.57									
10/22/2020	XX	SWXXX45E	0.008 U	16.2		0.216	4.45	0.0447	1.49	2.64									
6/24/2021	XX	SWXXX479	0.008 U	19.9		2.84	4.66	2.2	1 U	2.7									
9/23/2021	XX	SWXXX494	0.008 U	17.1		1.25	4.6	0.276	1 U	3.11									
UDLP																			
6/24/2021	XX	LFXXX47J	0.008 U	121		1.1	36.7	1.7	13.1	30.2									
9/23/2021	XX	LFXXX49F	0.008 U	81.1		1.66	19.4	1.46	6.99	21.8									

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

- Concentration Qualifier Notes:**
- I- The sampling location was damaged or destroyed.
 - B- Compound is found in the associated quality control blank as well as sample.
 - D- The sampling location was dry.
 - E- Compound exceeded upper level of calibration range and required dilution.
 - F6- No flow. Sample not taken.
 - I- The sampling location yielded insufficient quantity to collect a sample.
 - J- Analyte was positively identified/Associated value is an estimate.
 - U- Not Detected above the laboratory reporting limit.

			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Type	Sample ID														

LP																
5/7/2009	XX	LTLPPX10F			0.0096				280				13		110	20
8/12/2009	XX	LTLPPX12F			0.023				340				55		120	18
10/27/2009	XX	LTLPPX143	0.27	0.0055	0.015	0.17	0.002 U	0.0004 U	190	0.005 U	0.05 U	0.003 U	24	0.003 U	50	7
6/7/2010	XX	LTLPPX164			0.022				160				23		66	3.8
6/7/2010	XD	LTDPA4X162			0.027 J				160				23		68	5
8/18/2010	XX	LTLPPX185			0.021				41				1.2		160	1.3
10/21/2010	XX	LTLPPX19D	0.12	0.003 U	0.0094	0.17	0.002 U	0.00071	210	0.005 U	0.05 U	0.003 U	12	0.003 U	97	5.4
5/18/2011	XX	LTXXXX1ED			0.0097				130				9.2		42	5.4
5/18/2011	XD	LTXXXX1EI			0.0091				130				9.7		44	5.6
8/10/2011	XX	LTXXXX1G4			0.028				40				5.6		140	1.7
11/2/2011	XX	LTXXXX1HF	0.052	0.00035 U	0.0036 J	0.13	0.00002 U	0.00015 J	160	0.0036 J	0.0064 J	0.00028 U	6.3	0.00077 U	86	6
11/2/2011	XD	LTDPA3X110	0.054	0.00035 U	0.005	0.13	0.00002 U	0.00013 U	160	0.0036 J	0.0065 J	0.00028 U	6.7	0.00077 U	91	6.4
5/14/2012	XX	LTXXXX1J9			0.005 U				130				8.3		41	5.1
8/15/2012	XX	LTXXXX212			0.027				30				7.6		150	0.95
8/15/2012	XD	LTDPA3X217			0.028				28				7.3		140	0.92
10/30/2012	XX	LTXXXX22G			0.01				160				5.4		69	4.8
5/21/2013	XX	LTXXXX24A			0.025 U				130				3.2		78	3
7/25/2013	XX	LTXXXX264			0.018				38				2.3		67	1.3
10/1/2013	XX	LTXXXX27I	0.063	0.003 U	0.0099	0.11	0.002 U	0.0002 U	110	0.005 U	0.05 U	0.003 U	4.6	0.003 U	58	3.5
6/5/2014	XX	LTXXXX29C			0.008 U				158				1.84		85.8	5.16
8/21/2014	XX	LTXXXX2B6			0.021				174				6.87		177	5.85
11/13/2014	XX	LTXXXX2D0	0.3 U	0.008 U	0.014	0.122	0.005 U	0.005 U	149	0.01 U	0.01 U	0.025 U	5.9	0.005 U	44.6	3.98
6/4/2015	XX	LTXXXX2EG			0.012				123				7.6		47	4.55
9/3/2015	XX	LTXXXX2GB			0.008				97.7				4.24		112	1.39
11/5/2015	XX	LTXXXX2I5	0.3 U	0.008 U	0.013	0.12	0.005 U	0.005 U	137	0.01 U	0.01 U	0.025 U	7.08	0.005 U	49.9	3.99
6/16/2016	XX	LTXXXX31F			0.009				135				2.88		103	2.18
9/22/2016	XX	LTXXXX339			0.017				57.3				1.43		177	0.728
11/10/2016	XX	LTXXXX353	0.3 U	0.008 U	0.014	0.0912	0.005 U	0.005 U	105	0.01 U	0.01 U	0.025 U	1.4	0.005 U	160	1.11
6/15/2017	XX	LTXXXX36I			0.008				152				1.53		104	4.56
8/31/2017	XX	LTXXXX38C			0.008				121				2.5		224	2.56
11/16/2017	XX	LTXXXX3A6	0.3 U	0.008 U	0.009	0.105	0.005 U	0.005 U	144	0.01 U	0.01 U	0.025 U	4.39	0.005 U	60.8	3.73
6/21/2018	XX	LTXXXX3C1			0.008 U				126				1.59		136	1.07
8/16/2018	XX	LTXXXX3CG			0.008				75.1				2.54		111	0.865
11/29/2018	XX	LTXXXX3F9	0.3 U	0.008 U	0.008 U	0.0439	0.005 U	0.005 U	64.2	0.01 U	0.01 U	0.025 U	1.18	0.005 U	24	2.13
6/6/2019	XX	LTXXXX3H4			0.01				118				3.46		62	4.63
8/15/2019	XX	LTXXXX3HJ			0.015				110				1.88		133	1.7
10/24/2019	XX	LTXXXX40C	0.3 U	0.008 U	0.012	0.107	0.005 U	0.005 U	115	0.01 U	0.01 U	0.025 U	3.69	0.005 U	99.4	2.68
6/18/2020	XX	LTXXXX427			0.012				122				4.57		106	1.6
8/6/2020	XX	LTXXXX432			0.008 U				83.1				1.7		170	0.452
10/22/2020	XX	LTXXXX45F	0.3 U	0.008 U	0.008	0.0974	0.005 U	0.005 U	110	0.01 U	0.0116	0.025 U	3.78	0.005 U	70.4	2.32
6/24/2021	XX	LTXXXX47A			0.008 U				112				2.15		132	0.761
10/5/2021	XX	LTXXXX49J	0.3 U	0.008 U	0.008 U	0.0973	0.005 U	0.005 U	113	0.01 U	0.01 U	0.025 U	4.18	0.005 U	58.5	2.03

REPORT PREPARED: 12/8/2021 06:58 FOR: Dolby Landfill			SUMMARY REPORT LP Metals (part 1 of 2)								Page 2 of 2 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021			
(LP)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Type	Sample ID												

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- J- Analyte was positively identified/Associated value is an estimate.
- U- Not Detected above the laboratory reporting limit.

REPORT PREPARED: 12/8/2021 06:58

FOR: Dolby Landfill

SUMMARY REPORT

LP Metals (part 2 of 2)

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LP)			Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc								
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L								
Date	Type	Sample ID																
LP																		
5/7/2009	XX	LTLPXX10F		180			55											
8/12/2009	XX	LTLPXX12F		170			46											
10/27/2009	XX	LTLPXX143	0.014	92	0.014	0.001 U	25	0.0028 U	0.05 U	0.019								
6/7/2010	XX	LTLPXX164		170			32											
6/7/2010	XD	LTD4X162		190			38											
8/18/2010	XX	LTLPXX185		210			77											
10/21/2010	XX	LTLPXX19D	0.017	170	0.012	0.007 U	47	0.0028 U	0.05 U	0.01 U								
5/18/2011	XX	LTXXXX1ED		57			19											
5/18/2011	XD	LTXXXX1EI		58			20											
8/10/2011	XX	LTXXXX1G4		160			73											
11/2/2011	XX	LTXXXX1HF	0.011	100	0.016	0.0014 U	40	0.02		0.021 U								
11/2/2011	XD	LTD3X110	0.011	100	0.018	0.0014 U	44	0.021		0.021 U								
5/14/2012	XX	LTXXXX1J9		55			19											
8/15/2012	XX	LTXXXX212		160			74											
8/15/2012	XD	LTD3X217		160			72											
10/30/2012	XX	LTXXXX22G		95			32											
5/21/2013	XX	LTXXXX24A		89			33											
7/25/2013	XX	LTXXXX264		78			31											
10/1/2013	XX	LTXXXX27I	0.0098	73	0.005 U	0.001 U	28	0.002 U		0.005 U								
6/5/2014	XX	LTXXXX29C		108			36.3											
8/21/2014	XX	LTXXXX2B6		205			68.3											
11/13/2014	XX	LTXXXX2D0	0.01 U	64.4	0.01 U	0.01 U	19.7	0.015 U		0.02 U								
6/4/2015	XX	LTXXXX2EG		59.7			18.7											
9/3/2015	XX	LTXXXX2GB		132			48.7											
11/5/2015	XX	LTXXXX2I5	0.01 U	67.8	0.01 U	0.01 U	20.1	0.015 U		0.02 U								
6/16/2016	XX	LTXXXX31F		126			42.9											
9/22/2016	XX	LTXXXX339		257			92.1											
11/10/2016	XX	LTXXXX353	0.0134	219	0.01 U	0.01 U	71.2	0.015 U		0.02 U								
6/15/2017	XX	LTXXXX36I		114			40.2											
8/31/2017	XX	LTXXXX38C		259			93.7											
11/16/2017	XX	LTXXXX3A6	0.0109	70.1	0.01 U	0.01 U	26	0.015 U		0.02 U								
6/21/2018	XX	LTXXXX3C1		161			58.6											
8/16/2018	XX	LTXXXX3CG		121			46.5											
11/29/2018	XX	LTXXXX3F9	0.01 U	26	0.01 U	0.01 U	9.39	0.015 U		0.02 U								
6/6/2019	XX	LTXXXX3H4		59.7			20.9											
8/15/2019	XX	LTXXXX3HJ		143			54.6											
10/24/2019	XX	LTXXXX40C	0.01 U	108	0.01 U	0.01 U	40.9	0.015 U		0.02 U								
6/18/2020	XX	LTXXXX427		117			43.1											
8/6/2020	XX	LTXXXX432		188			70.6											
10/22/2020	XX	LTXXXX45F	0.0175	77.5	0.01 U	0.01 U	27.1	0.015 U		0.02 U								
6/24/2021	XX	LTXXXX47A		149			55.7											
10/5/2021	XX	LTXXXX49J	0.01 U	63.6	0.01 U	0.01 U	23.9	0.015 U		0.02 U								

REPORT PREPARED: 12/8/2021 06:58

FOR: Dolby Landfill

SUMMARY REPORT

LP Metals (part 2 of 2)

Page 2 of 2

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LP)	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Type	Sample ID						

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U- Not Detected above the laboratory reporting limit.

REPORT PREPARED: 12/8/2021 07:01
 FOR: Dolby Landfill

SUMMARY REPORT
 EPH (part 1 of 2)

Page 1 of 2
 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(301)			C9-C18 ALIPHATICS (ADJUSTED)	C19-C36 ALIPHATICS (ADJUSTED)	C11-C22 AROMATICS (ADJUSTED)	2-Methyl naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene				
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L				
301																	
10/30/2012	XX	GW301X21C	96.2 U	96.2 U	96.2 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U				
10/1/2013	XX	GW301X26E	102 U	102 U	102 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U				
11/11/2014	XX	GW301X2BG	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/4/2015	XX	GW301X2H1	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/10/2016	XX	GW301X33J	94 U	94 U	380	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/14/2017	XX	GW301X392	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/28/2018	XX	GW301X3E5	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XX	GW301X3J8RA	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XX	GW301X3J8RE	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/21/2020	XX	GW301X44BRA	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
9/22/2021	XX	GW301X481RE	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
302B																	
10/30/2012	XX	GW302B21D	96.2 U	96.2 U	96.2 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U				
10/1/2013	XX	GW302B26F	101 U	101 U	101 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U				
11/11/2014	XX	GW302B2BH	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/4/2015	XX	GW302B2H2	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/8/2016	XX	GW302B340	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/14/2017	XX	GW302B393	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/28/2018	XX	GW302B3E6	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XX	GW302B3J9	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XX	GW302B3J9RE	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/21/2020	XX	GW302B44CRA	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
9/22/2021	XX	GW302B482RE	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
302C																	
10/30/2012	XX	GW302C21E	96.2 U	96.2 U	96.2 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U				
10/30/2012	XD	GWDP3X231	96.2 U	96.2 U	96.2	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U				
10/1/2013	XX	GW302C26G	101 U	101 U	101 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U				
10/1/2013	XD	GWDP1X281	101 U	101 U	101 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U				
11/11/2014	XX	GW302C2B1	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/11/2014	XD	GWDP1X2D3	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/4/2015	XX	GW302C2H3	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/4/2015	XD	GWDP1X2I8	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/8/2016	XD	GWDP1X356	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/8/2016	XX	GW302C341	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/14/2017	XD	GWDP1X3A9	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/14/2017	XX	GW302C394	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/28/2018	XD	GWDP1X3FC	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
11/28/2018	XX	GW302C3E7	150	1900	630	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XD	GWDP1X40FRE	92 U	92 U	92 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U				
10/23/2019	XD	GWDP1X40F	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XX	GW302C3JA	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/23/2019	XX	GW302C3JARE	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/21/2020	XD	GWDP1X45IRA	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
10/21/2020	XX	GW302C44DRA	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
9/22/2021	XD	GWDP1X498RE	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
9/22/2021	XX	GW302C483RE	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				

(LP)			C9-C18 ALIPHATICS (ADJUSTED)	C19-C36 ALIPHATICS (ADJUSTED)	C11-C22 AROMATICS (ADJUSTED)	2-Methyl naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene			
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			

LP																
8/15/2012	XX	LTXXX212	100 U	100 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U			
8/15/2012	XD	LTD3X217	100 U	100 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U			
10/30/2012	XX	LTXXX22G	101 U	101 U	101 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U			
5/21/2013	XX	LTXXX24A	104 U	104 U	104 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U			
7/25/2013	XX	LTXXX264	100 U	100 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U			
10/1/2013	XX	LTXXX27I	102 U	102 U	102 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U			
6/5/2014	XX	LTXXX29C	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
8/21/2014	XX	LTXXX2B6	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
11/13/2014	XX	LTXXX2D0	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/4/2015	XX	LTXXX2EG	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
9/3/2015	XX	LTXXX2GB	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
11/5/2015	XX	LTXXX2I5	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/16/2016	XX	LTXXX31F	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
9/22/2016	XX	LTXXX339RE	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
11/10/2016	XX	LTXXX353	94 U	94 U	280	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/15/2017	XX	LTXXX36I	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
8/31/2017	XX	LTXXX38C	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
11/16/2017	XX	LTXXX3A6	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/21/2018	XX	LTXXX3C1RE	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/21/2018	XX	LTXXX3C1	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
8/16/2018	XX	LTXXX3CG	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
11/29/2018	XX	LTXXX3F9	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/6/2019	XX	LTXXX3H4RE	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/6/2019	XX	LTXXX3H4	95 U	360	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
8/15/2019	XX	LTXXX3HJRE	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
10/24/2019	XX	LTXXX40C	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
10/24/2019	XX	LTXXX40CRE	99 U	99 U	99 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U			
6/18/2020	XX	LTXXX427RE	93 U	93 U	93 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
8/6/2020	XX	LTXXX432	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
10/22/2020	XX	LTXXX45FRA	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
6/24/2021	XX	LTXXX47ARE	94 U	94 U	94 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
10/5/2021	XX	LTXXX49J	95 U	95 U	95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:
 U- Not Detected above the laboratory reporting limit.

REPORT PREPARED: 12/8/2021 07:02
FOR: Dolby Landfill

SUMMARY REPORT
EPH (part 2 of 2)

Page 1 of 2
SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(301)			Naphthalene (EPH)	Benzo(a) Anthracene	Chrysene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Indeno(1,2,3-c,d) Pyrene	Dibenz(a,h) Anthracene	Benzo(g,h,i) perylene						
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L						
301																	
10/30/2012	XX	GW301X21C		4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U						
10/1/2013	XX	GW301X26E		5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U						
11/11/2014	XX	GW301X2BG		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/4/2015	XX	GW301X2H1	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/10/2016	XX	GW301X33J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/14/2017	XX	GW301X392	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/28/2018	XX	GW301X3E5	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XX	GW301X3J8RA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XX	GW301X3J8RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/21/2020	XX	GW301X44BRA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
9/22/2021	XX	GW301X481RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
302B																	
10/30/2012	XX	GW302B21D		4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U						
10/1/2013	XX	GW302B26F		5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U						
11/11/2014	XX	GW302B2BH		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/4/2015	XX	GW302B2H2	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/8/2016	XX	GW302B340	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/14/2017	XX	GW302B393	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/28/2018	XX	GW302B3E6	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XX	GW302B3J9	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XX	GW302B3J9RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/21/2020	XX	GW302B44CRA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
9/22/2021	XX	GW302B482RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
302C																	
10/30/2012	XX	GW302C21E		4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U						
10/30/2012	XD	GWDP3X231		4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U						
10/1/2013	XX	GW302C26G		5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U						
10/1/2013	XD	GWDP1X281		5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U						
11/11/2014	XX	GW302C2BI		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/11/2014	XD	GWDP1X2D3		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/4/2015	XX	GW302C2H3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/4/2015	XD	GWDP1X2I8	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/8/2016	XD	GWDP1X356	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/8/2016	XX	GW302C341	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/14/2017	XD	GWDP1X3A9	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/14/2017	XX	GW302C394	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/28/2018	XD	GWDP1X3FC	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/28/2018	XX	GW302C3E7	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XD	GWDP1X40FRE	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U						
10/23/2019	XD	GWDP1X40F	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XX	GW302C3JA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/23/2019	XX	GW302C3JARE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/21/2020	XD	GWDP1X45IRA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/21/2020	XX	GW302C44DRA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
9/22/2021	XD	GWDP1X49BRE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
9/22/2021	XX	GW302C483RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(LP)			Naphthalene (EPH)	Benzo(a) Anthracene	Chrysene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Indeno(1,2,3-c,d) Pyrene	Dibenz(a,h) Anthracene	Benzo(g,h,i) perylene						
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L						
LP																	
8/15/2012	XX	LTXXXX212		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U						
8/15/2012	XD	LTD3X217		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U						
10/30/2012	XX	LTXXXX22G		5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U	5.05 U						
5/21/2013	XX	LTXXXX24A		5.21 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U	5.21 U						
7/25/2013	XX	LTXXXX264		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U						
10/1/2013	XX	LTXXXX27I		5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U						
6/5/2014	XX	LTXXXX29C		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
8/21/2014	XX	LTXXXX286		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/13/2014	XX	LTXXXX2D0		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/4/2015	XX	LTXXXX2EG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
9/3/2015	XX	LTXXXX2GB	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/5/2015	XX	LTXXXX2I5	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/16/2016	XX	LTXXXX31F	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
9/22/2016	XX	LTXXXX339RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/10/2016	XX	LTXXXX353	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/15/2017	XX	LTXXXX36I	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
8/31/2017	XX	LTXXXX38C	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/16/2017	XX	LTXXXX3A6	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/21/2018	XX	LTXXXX3C1RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/21/2018	XX	LTXXXX3C1	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
8/16/2018	XX	LTXXXX3CG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
11/29/2018	XX	LTXXXX3F9	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/6/2019	XX	LTXXXX3H4RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/6/2019	XX	LTXXXX3H4	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
8/15/2019	XX	LTXXXX3HJRE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/24/2019	XX	LTXXXX40C	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/24/2019	XX	LTXXXX40CRE	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U						
6/18/2020	XX	LTXXXX427RE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
8/6/2020	XX	LTXXXX432	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/22/2020	XX	LTXXXX45FRA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
6/24/2021	XX	LTXXXX47ARE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
10/5/2021	XX	LTXXXX49J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:
 U- Not Detected above the laboratory reporting limit.

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 FOR: Dolby Landfill

SUMMARY REPORT
VPH

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 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

(301)			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylene	C9-C12 ALIPHATICS (ADJUSTED)	C9-C10 AROMATICS (ADJUSTED)	C5-C8 ALIPHATICS (ADJUSTED)	Methyltertiary butylether	Naphthalene				
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L				

301															
10/30/2012	XX	GW301X21C	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	4.81 U			
10/1/2013	XX	GW301X26E	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U			
11/11/2014	XX	GW301X2BG	3 U	5 U	5 U	5 U	10 U	94 U	94 U	94 U	5 U	5 U			
11/4/2015	XX	GW301X2H1	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/10/2016	XX	GW301X33JVPH	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/14/2017	XX	GW301X392	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/28/2018	XX	GW301X3E5	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/23/2019	XX	GW301X3J8	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/21/2020	XX	GW301X44B	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
9/22/2021	XX	GW301X481	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			

302B															
10/30/2012	XX	GW302B21D	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	4.81 U			
10/1/2013	XX	GW302B26F	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U			
11/11/2014	XX	GW302B2BH	3 U	5 U	5 U	5 U	10 U	94 U	94 U	94 U	5 U	5 U			
11/4/2015	XX	GW302B2H2	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/8/2016	XX	GW302B340VPH	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/14/2017	XX	GW302B393	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/28/2018	XX	GW302B3E6	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/23/2019	XX	GW302B3J9	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/21/2020	XX	GW302B44C	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
9/22/2021	XX	GW302B482	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			

302C															
10/30/2012	XX	GW302C21E	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	4.81 U			
10/30/2012	XD	GWDP3X231	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	4.81 U			
10/1/2013	XX	GW302C26G	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U			
10/1/2013	XD	GWDP1X281	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U			
11/11/2014	XX	GW302C2BI	3 U	5 U	5 U	5 U	10 U	94 U	94 U	94 U	5 U	5 U			
11/11/2014	XD	GWDP1X2D3	3 U	5 U	5 U	5 U	10 U	94 U	94 U	94 U	5 U	5 U			
11/4/2015	XX	GW302C2H3	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/4/2015	XD	GWDP1X2I8	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/8/2016	XD	GWDP1X356VPH	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/8/2016	XX	GW302C341VPH	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/14/2017	XD	GWDP1X3A9	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/14/2017	XX	GW302C394	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/28/2018	XD	GWDP1X3FC	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
11/28/2018	XX	GW302C3E7	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/23/2019	XD	GWDP1X40F	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/23/2019	XX	GW302C3JA	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/21/2020	XD	GWDP1X45I	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
10/21/2020	XX	GW302C44D	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
9/22/2021	XX	GW302C483	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			
9/22/2021	XD	GWDP1X498	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U			

LP															
8/15/2012	XX	LTXXX212	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U			
8/15/2012	XD	LTDP3X217	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U			
10/30/2012	XX	LTXXX22G	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5.05 U			

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SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LP)			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylene	C9-C12 ALIPHATICS (ADJUSTED)	C9-C10 AROMATICS (ADJUSTED)	C5-C8 ALIPHATICS (ADJUSTED)	Methyltertiary butylether	Naphthalene				
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L				
5/21/2013	XX	LTXXXX24A	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5.21 U				
7/25/2013	XX	LTXXXX264	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
10/1/2013	XX	LTXXXX271	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
6/5/2014	XX	LTXXXX29C	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	1.9 U				
8/21/2014	XX	LTXXXX2B6	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	1.9 U				
11/13/2014	XX	LTXXXX2D0	3 U	5 U	5 U	5 U	10 U	94 U	94 U	94 U	5 U	5 U				
6/4/2015	XX	LTXXXX2EG	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	1.9 U				
9/3/2015	XX	LTXXXX2GB	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/5/2015	XX	LTXXXX2I5	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/16/2016	XX	LTXXXX31F	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
9/22/2016	XX	LTXXXX339	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/10/2016	XX	LTXXXX353DL	30 U	50 U	50 U	50 U	100 U	1000 U	1000 U	1000 U	50 U	50 U				
6/15/2017	XX	LTXXXX36I	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/31/2017	XX	LTXXXX38C	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/16/2017	XX	LTXXXX3A6	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/21/2018	XX	LTXXXX3C1RA	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/16/2018	XX	LTXXXX3CG	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/29/2018	XX	LTXXXX3F9	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/6/2019	XX	LTXXXX3H4	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/15/2019	XX	LTXXXX3HJRA	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/24/2019	XX	LTXXXX40C	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/18/2020	XX	LTXXXX427	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/6/2020	XX	LTXXXX432	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/22/2020	XX	LTXXXX45F	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/24/2021	XX	LTXXXX47A	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/5/2021	XX	LTXXXX49J	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
QCBT																
8/15/2012	XX	BTXXX21A	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
10/30/2012	XX	BTXXX234	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
5/21/2013	XX	BTXXX24I	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
7/25/2013	XX	BTXXX26C	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
10/1/2013	XX	BTXXX286	5 U	5 U	5 U	5 U	10 U	25 U	25 U	75 U	5 U	5 U				
6/5/2014	XX	BTXXX2A0	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/21/2014	XX	BTXXX2BE	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/11/2014	XX	BTXXX2D8	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/13/2014	XX	BTXXX2D9	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/4/2015	XX	BTXXX2F4	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
9/3/2015	XX	BTXXX2GJ	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/4/2015	XX	BTXXX2ID	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/5/2015	XX	BTXXX2IE	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/16/2016	XX	BTXXX323	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
9/22/2016	XX	BTXXX33H	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/8/2016	XX	BTXXX35B	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/10/2016	XX	BTXXX35C	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/15/2017	XX	BTXXX376	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/31/2017	XX	BTXXX390	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/14/2017	XX	BTXXX3AE	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/16/2017	XX	BTXXX3AF	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/21/2018	XX	BTXXX3C9RA	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				

(QCBT)			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylene	C9-C12 ALIPHATICS (ADJUSTED)	C9-C10 AROMATICS (ADJUSTED)	C5-C8 ALIPHATICS (ADJUSTED)	Methyltertiary butylether	Naphthalene				
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L				
8/16/2018	XX	BTXXXX3D4	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/28/2018	XX	BTXXXX3FH	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
11/29/2018	XX	BTXXXX3FI	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/6/2019	XX	BTXXXX3HC	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/15/2019	XX	BTXXXX3I7RA	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/23/2019	XX	BTXXXX410	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/24/2019	XX	BTXXXX411	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/18/2020	XX	BTXXXX42F	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
8/6/2020	XX	BTXXXX43A	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/21/2020	XX	BTXXXX463	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/22/2020	XX	BTXXXX464	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
6/24/2021	XX	BTXXXX47I	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
9/22/2021	XX	BTXXXX49D	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
9/23/2021	XX	BTXXXX49E	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				
10/5/2021	XX	BTXXXX4A0	3 U	5 U	5 U	5 U	10 U	100 U	100 U	100 U	5 U	5 U				

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.
 Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:
 U- Not Detected above the laboratory reporting limit.

DATE: 12/8/2021 06:51
FOR: Dolby Landfill

WATER LEVEL SUMMARY
Water Levels

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Location Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
302		Current ground surface elevation: (feet)		
5/17/2012		6.18		
8/16/2012		9.21		
10/30/2012		5.85		
5/21/2013		7.15		
7/25/2013		7.92		
10/3/2013		7.20		
6/2/2014		7.40		
8/20/2014		8.18		
11/14/2014		6.31		
6/5/2015		6.47		
9/3/2015		7.54		
11/5/2015		6.40		
6/15/2016		7.40		
9/22/2016		8.88		
11/10/2016		7.69		
6/12/2017		7.44		
8/31/2017		9.55		
11/16/2017		6.90		
6/18/2018		8.19		
8/14/2018		7.63		
11/26/2018		6.44		
6/6/2019		6.92		
8/15/2019		8.03		
10/23/2019		7.43		
6/18/2020		8.18		
8/6/2020		9.13		
10/22/2020		6.48		
6/24/2021		8.72		
9/22/2021		7.36		
403		Current ground surface elevation: (feet)		
5/17/2012		2.69		
8/15/2012		6.00		
10/30/2012		5.30		
5/21/2013		3.59		
7/25/2013		4.31		
10/3/2013		4.51		
6/2/2014		3.78		
8/20/2014		4.82		
11/14/2014		3.83		
6/5/2015		3.12		
9/3/2015		4.45		
11/5/2015		3.23		
6/15/2016		3.96		
9/22/2016		5.91		
11/10/2016		5.20		
6/12/2017		3.87		
8/31/2017		5.72		
11/16/2017		6.65		

DATE: 12/8/2021 06:51
 FOR: Dolby Landfill

WATER LEVEL SUMMARY
 Water Levels

SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

Location Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(403)				
6/18/2018		4.55		
8/14/2018		4.50		
11/26/2018		3.55		
6/6/2019		3.26		
8/15/2019		4.53		
10/23/2019		3.86		
6/18/2020		4.42		
8/6/2020		5.35		
10/22/2020		4.23		
6/24/2021		5.03		
9/22/2021		4.12		
404				
			Current ground surface elevation: (feet)	
5/17/2012		4.98		
8/15/2012		6.28		
10/30/2012		2.80		
5/21/2013		6.60		
7/25/2013		7.25		
10/3/2013		16.43		
6/2/2014		6.46		
8/20/2014		7.90		
11/14/2014		6.52		
6/5/2015		5.52		
9/3/2015		7.38		
11/5/2015		5.75		
6/15/2016		6.85		
9/22/2016		9.11		
11/10/2016		8.30		
6/12/2017		6.64		
8/31/2017		8.80		
11/16/2017		1.84		
6/18/2018		7.43		
8/14/2018		7.40		
11/26/2018		6.21		
6/6/2019		5.90		
8/15/2019		6.15		
10/23/2019		5.56		
6/18/2020		7.28		
8/6/2020		8.52		
10/22/2020		7.20		
6/24/2021		7.73		
9/22/2021		7.40		

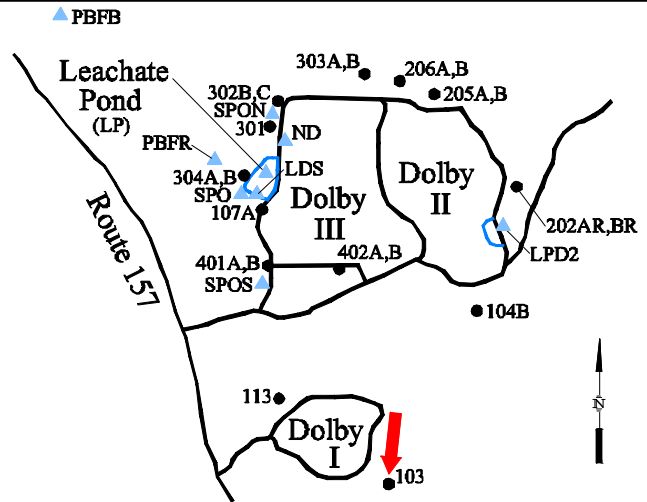
APPENDIX K

WATER QUALITY SUMMARY REPORTS

Well Description

Well located upgradient to southeast of Dolby I Landfill.

Screen Interval: **Unknown TOS to 15 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-82**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		↑ 135	D		23	to 90	32 ± 1.6		45
Dissolved Oxygen (mg/L)		6.7	D		1	to 14.3	8.7 ± 0.43		44
Total Dissolved Solids (mg/L)			D		1	U to 60	21 ± 3.5		25
Arsenic (mg/L)			D		0.005	U to 0.01	0.0056 ± 0.000		23
Calcium (mg/L)			D		0.9	to 4.3	3.2 ± 0.18		22
Manganese (mg/L)			D		0.01	U to 0.013	0.01 ± 0.000		25
pH (STU)		6.9	D		4.58	to 9.1	6.3 ± 0.12		45
Alkalinity (CaCO3) (mg/L)			D		4	to 22	9.8 ± 0.81		25
Ca-mg Hardness (CaCO3) (mg/L)			D		3.9	to 11	9 ± 0.4		25
Bicarbonate Alkalinity (CaCO3) (mg/L)			D		3.8	to 21	9.6 ± 0.81		25
Sodium (mg/L)			D		1	U to 1.9	1.5 ± 0.045		25
Chloride (mg/L)			D		1	U to 2.1	1.8 ± 0.082		25
Iron (mg/L)			D		0.017	to 0.36	0.055 ± 0.014		25
Magnesium (mg/L)			D		0.4	to 1 U	0.95 ± 0.038		22
Potassium (mg/L)			D		0.24	to 1 U	0.86 ± 0.057		25
Sulfate (mg/L)			D		2.4	to 6.3	3.6 ± 0.17		25
Total Suspended Solids (mg/L)			D		0.6	U to 198	12 ± 8		25
Turbidity (field) (NTU)		0.3	D		0	to 23.4	1.7 ± 0.53		44
Ammonia (N) (mg/L)			D		0.1	U to 1.1	0.22 ± 0.038		25
Nitrate (N) (mg/L)			D		0.5	U to 2 U	1.3 ± 0.14		25
Organic Carbon (mg/L)			D		0.9	to 4.2	1.3 ± 0.16		25

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

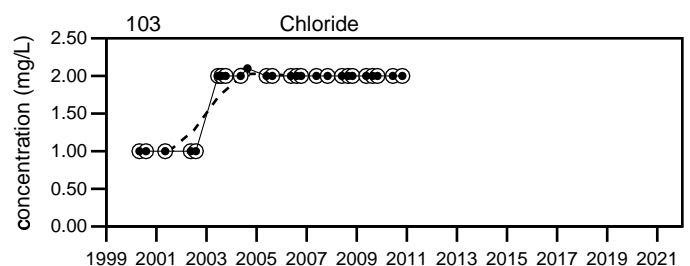
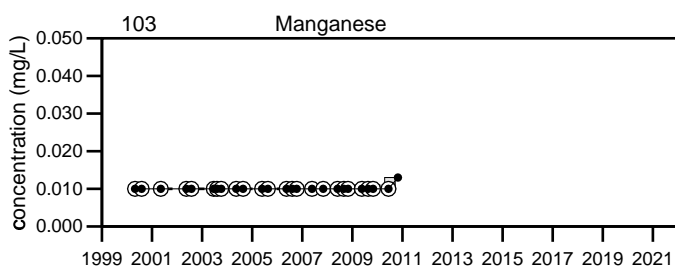
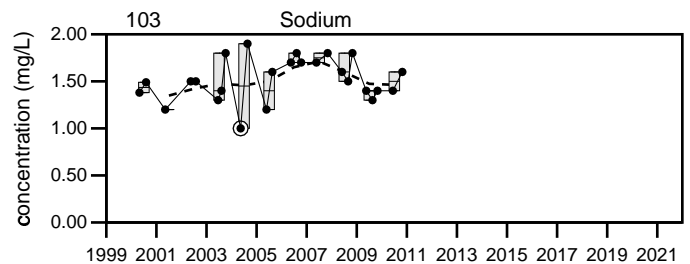
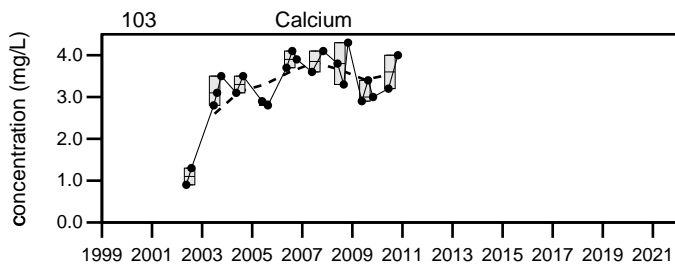
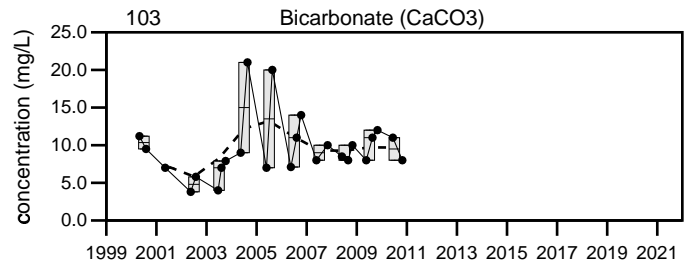
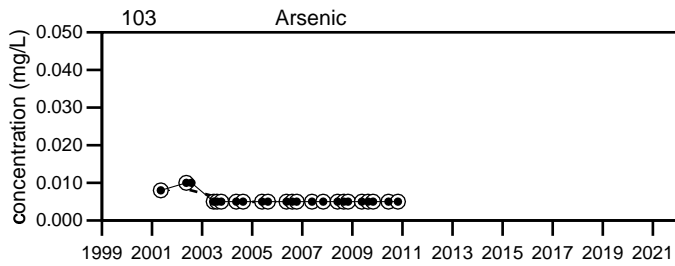
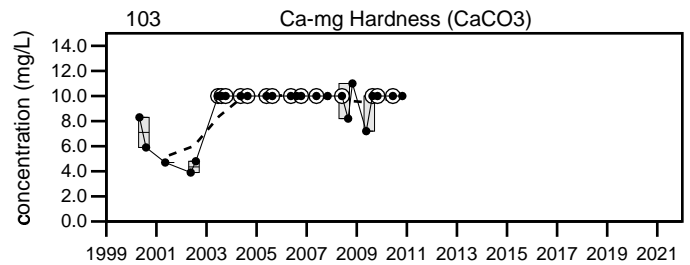
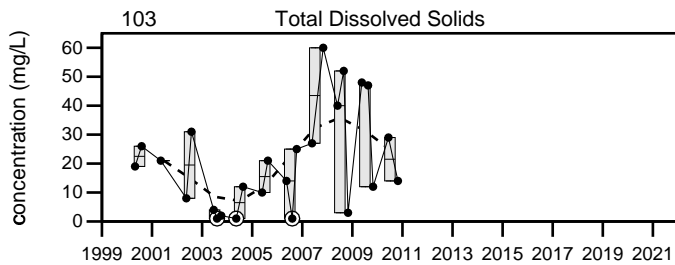
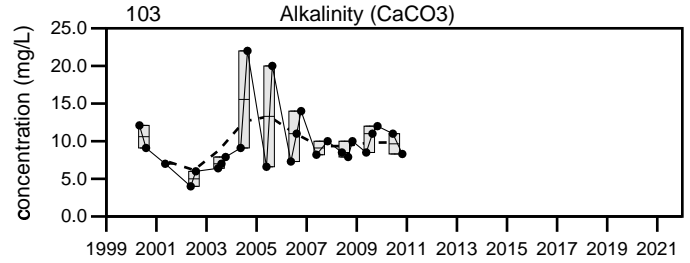
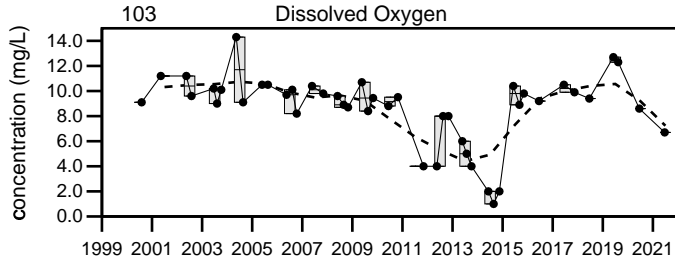
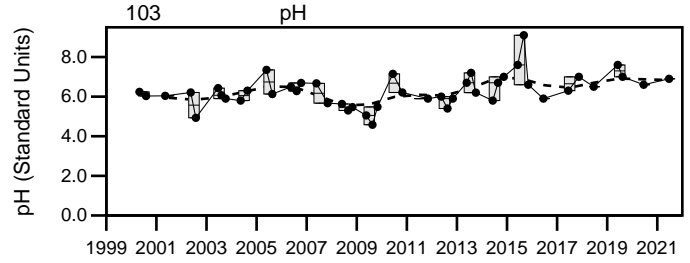
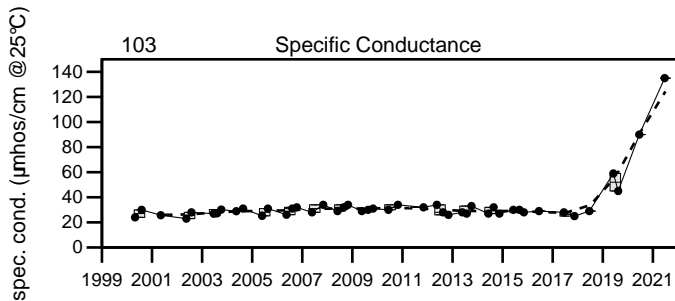
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 D = The sampling location was dry.
 Q3= 9 - 2021

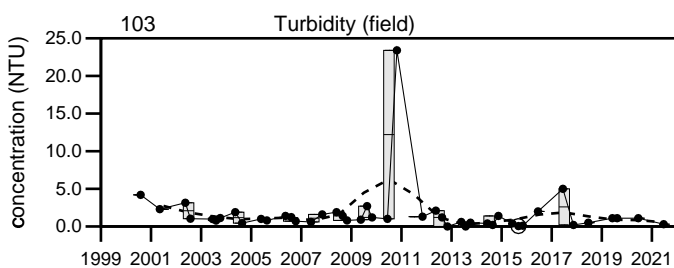
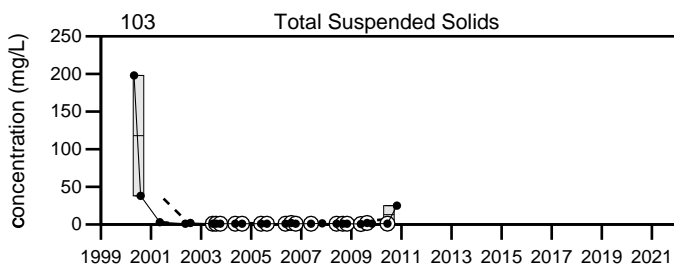
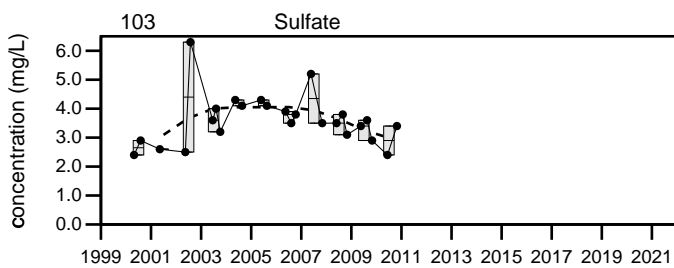
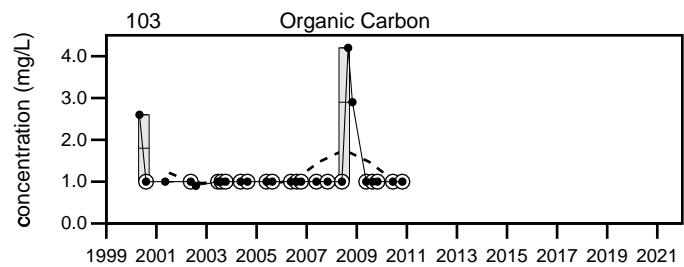
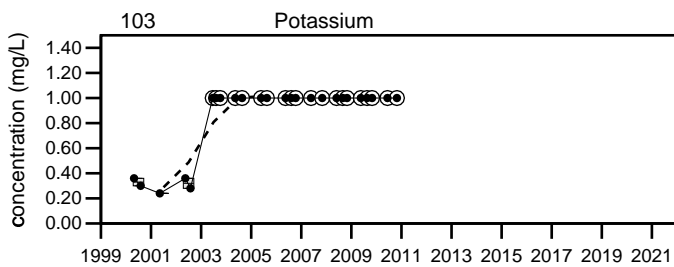
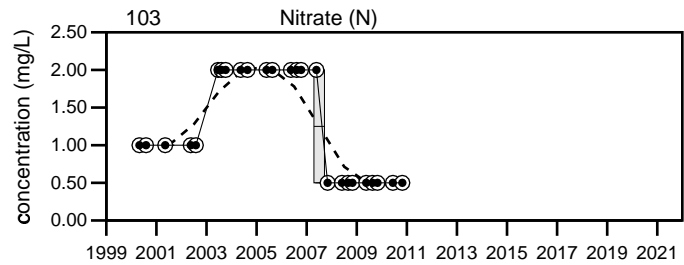
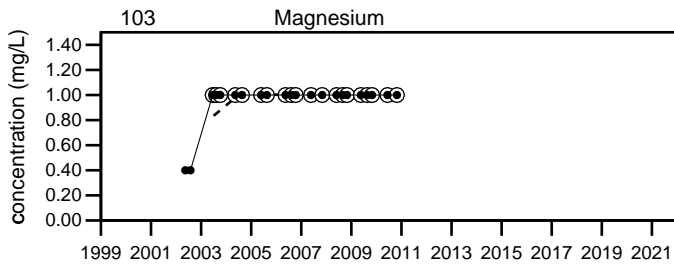
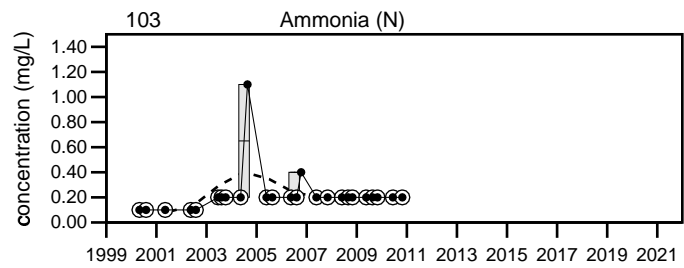
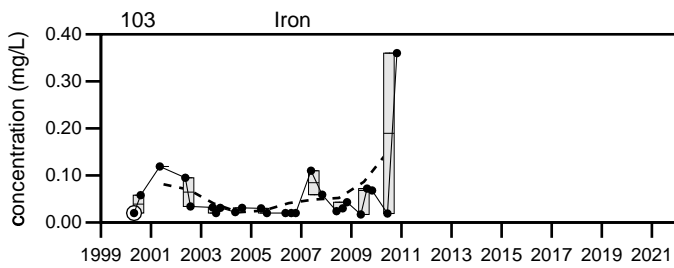


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
103

Sevee & Maher Engineers, Inc.



LEGEND

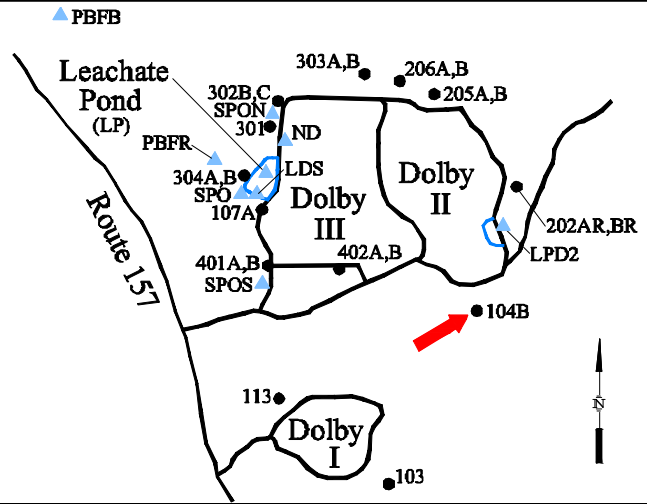
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
103

Well Description

Well located upgradient to south of Dolby II Landfill.

Screen Interval: **Unknown TOS to 37 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Mar-82**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		125	126		113	to 174	140 ± 1.2		63
Dissolved Oxygen (mg/L)		1.4	0.5		0.2	to 5.5	1.3 ± 0.14		62
Total Dissolved Solids (mg/L)		99	87		34	to 140	92 ± 2.5		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.01 U	0.0064 ± 0.000		61
Calcium (mg/L)		22.6	21		9.1	to 27	21 ± 0.44		57
Manganese (mg/L)		0.0302	0.057		0.0079	to 0.132	0.038 ± 0.003		63
pH (STU)		7.1	7.5		6.34	to 8.5	7.7 ± 0.061		63
Alkalinity (CaCO3) (mg/L)		53	↑58		37	to 57	50 ± 0.38		63
Ca-mg Hardness (CaCO3) (mg/L)		64.4	60.8		29.2	to 75	58 ± 1.4		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		53	↑58		37	to 57	49 ± 0.47		63
Sodium (mg/L)		4.29	4.56		3.3	to 5.1	4.1 ± 0.049		63
Chloride (mg/L)		2 U	2 U		1	to 3.9	2.1 ± 0.071		63
Iron (mg/L)		0.108	↑1.01		0.01 U	to 0.329	0.064 ± 0.008		63
Magnesium (mg/L)		1.94	↑2.05		1.5	to 2.01	1.7 ± 0.016		57
Potassium (mg/L)		1 U	1.12		0.91	to 1.3	1 ± 0.009		63
Sulfate (mg/L)		17	17		14	to 19	17 ± 0.15		63
Total Suspended Solids (mg/L)		4 U	13		0.32 U	to 186	5.2 ± 2.9		63
Turbidity (field) (NTU)		0.1	0.1		0	to 5.5	0.46 ± 0.086		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.9	0.16 ± 0.014		63
Nitrate (N) (mg/L)		0.057	0.05 U		0.05 U	to 2 U	0.67 ± 0.088		63
Organic Carbon (mg/L)		1 U	1 U		0.5 U	to 2.2	1 ± 0.027		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

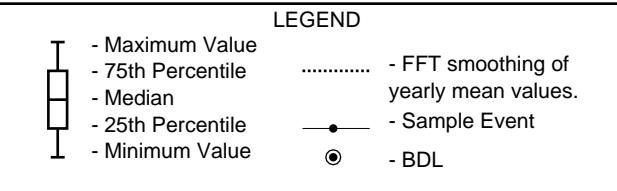
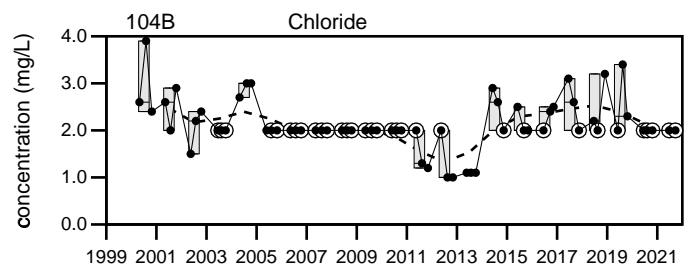
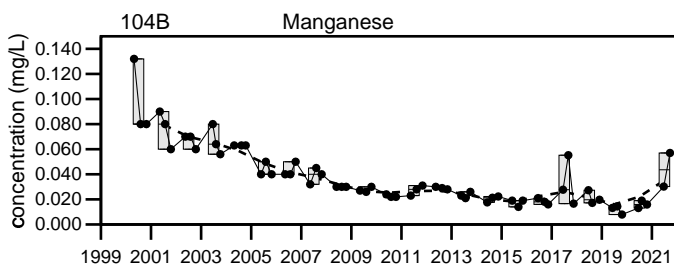
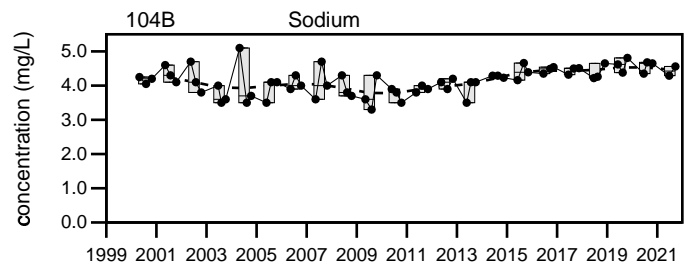
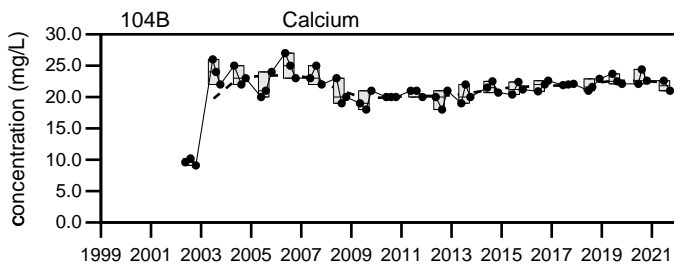
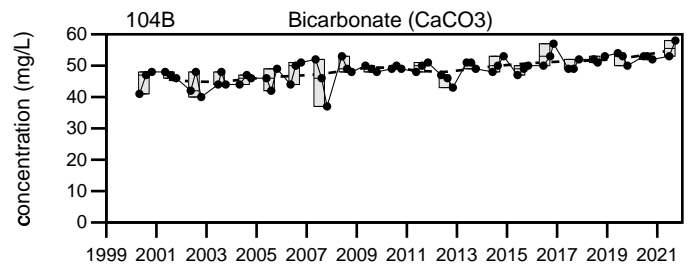
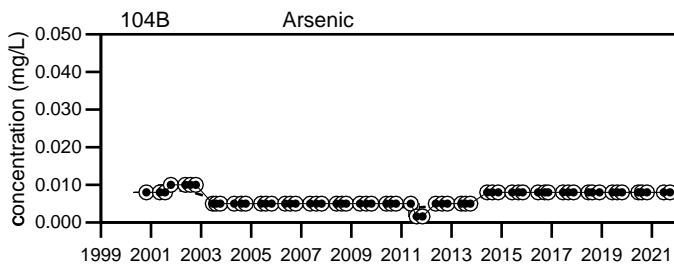
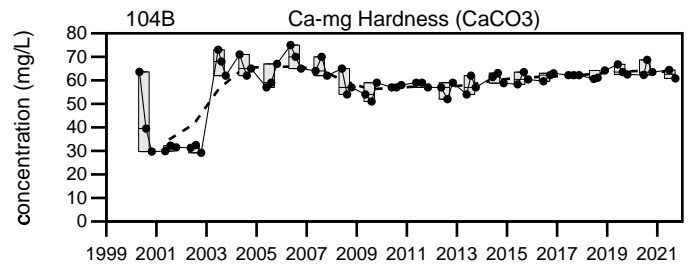
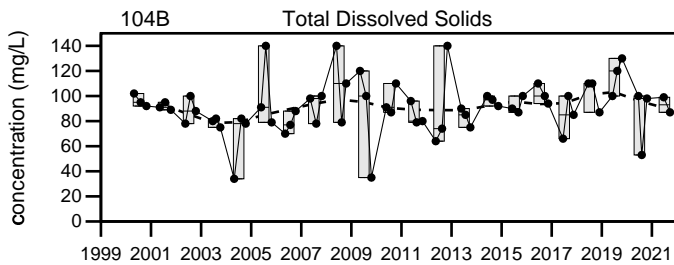
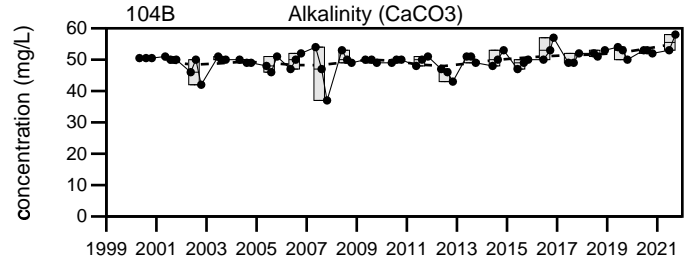
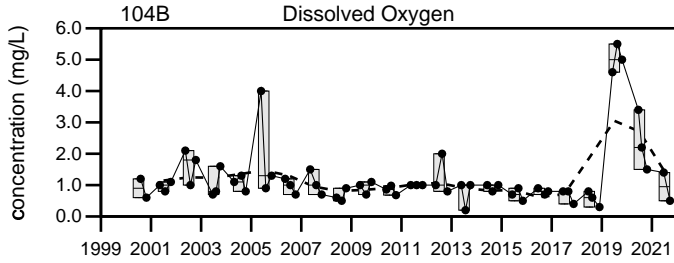
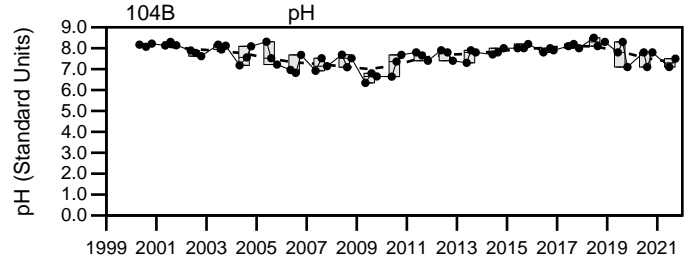
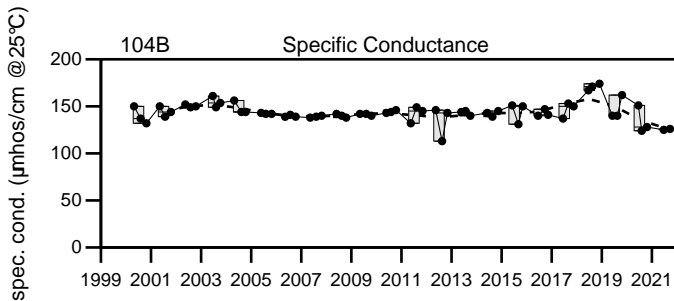
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

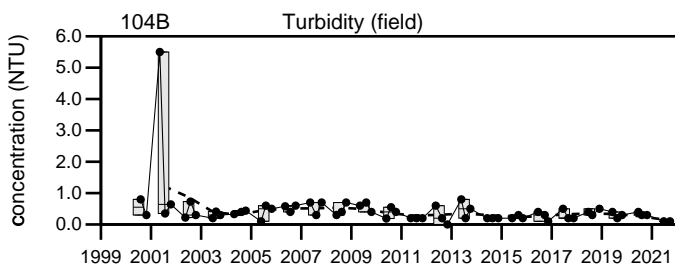
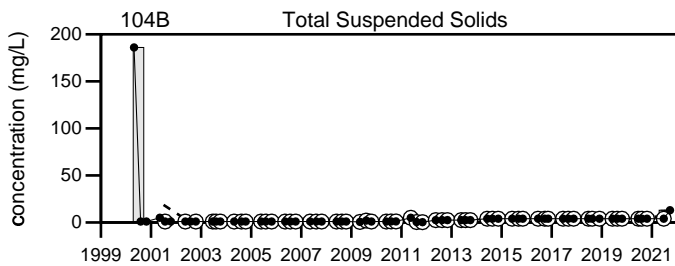
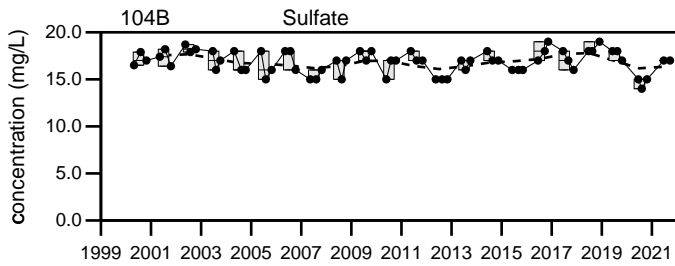
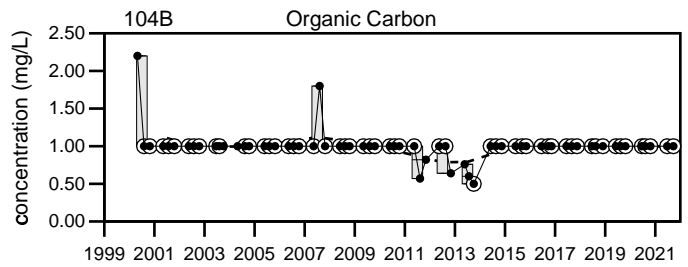
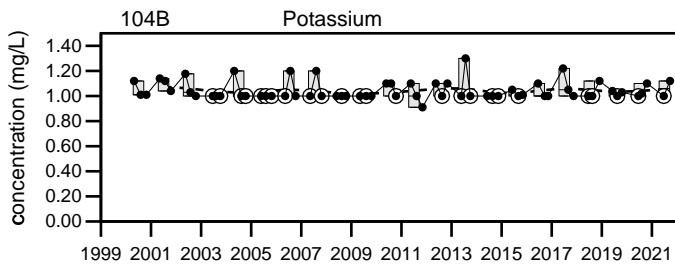
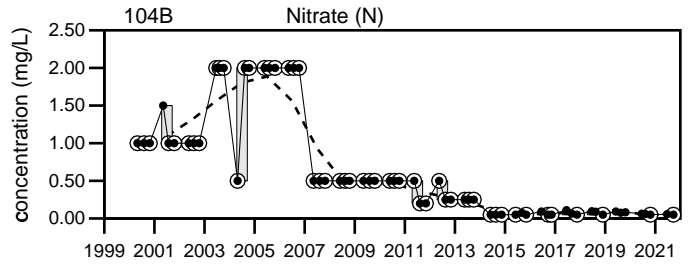
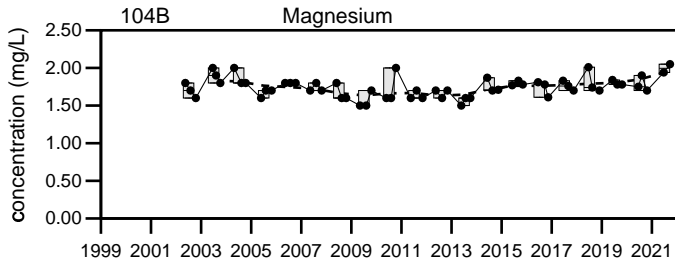
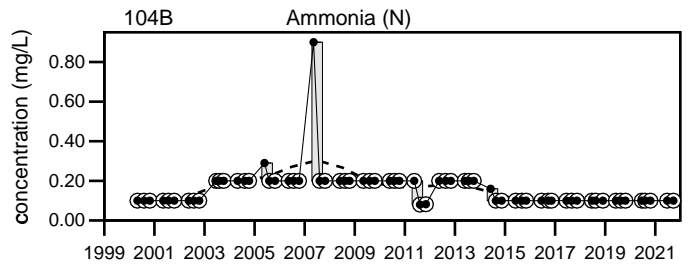
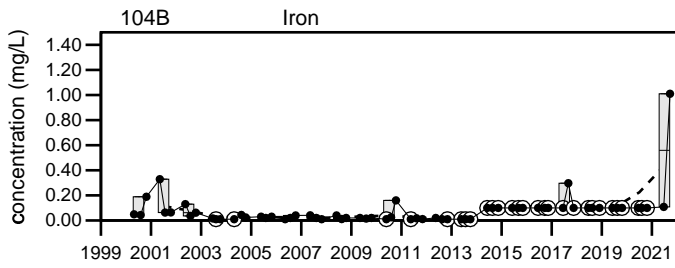
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



Dolby Landfill

104B

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

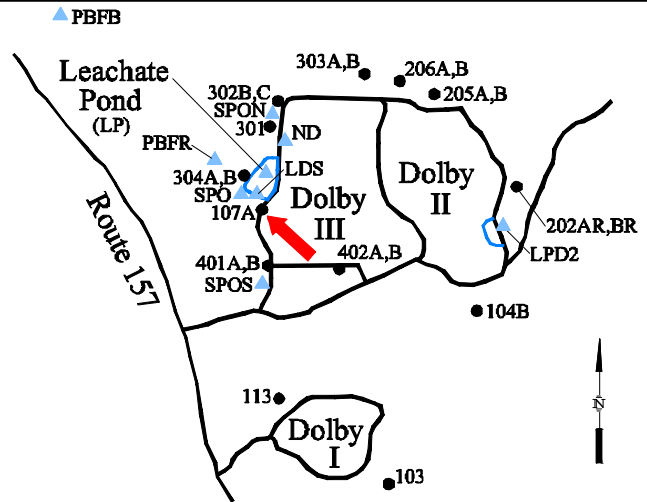
Dolby Landfill

104B

Well Description

Well located downgradient to the west of the Dolby III Landfill.

Screen Interval: **Unknown TOS to 19.36 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-82**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		972	1352		477	to 2710	1100 ± 68		63
Dissolved Oxygen (mg/L)		0.4	0.4		0.1 U	to 3.5	0.69 ± 0.063		62
Total Dissolved Solids (mg/L)		860	1100		280	to 1834	690 ± 47		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.043	0.008 ± 0.000		61
Calcium (mg/L)		93.2	101		50	to 370.2	110 ± 8.3		57
Manganese (mg/L)		14.1	26		0.79	to 72.5	21 ± 2.1		63
pH (STU)		6.9	6.8		5.98	to 7.3	6.7 ± 0.031		63
Alkalinity (CaCO3) (mg/L)		930	1100		250	to 1440	580 ± 36		63
Ca-mg Hardness (CaCO3) (mg/L)		626	783		200	to 1548.1	540 ± 38		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		930	1100		240	to 1429	550 ± 35		63
Sodium (mg/L)		39.5	55.4		12	to 93.2	36 ± 2.3		63
Chloride (mg/L)		46	54		14	to 222	60 ± 5.7		63
Iron (mg/L)		0.537	0.576		0.02 U	to 1.85	0.44 ± 0.05		63
Magnesium (mg/L)		95.5	129		18.6	to 140	61 ± 4.5		57
Potassium (mg/L)		31.3	45.8		1.1	to 59.2	6.4 ± 1.1		63
Sulfate (mg/L)		1 U	1 U		1 U	to 15.4	7.3 ± 0.4		63
Total Suspended Solids (mg/L)		4 U	5.6		0.32 U	to 43	3.2 ± 0.67		63
Turbidity (field) (NTU)		0.2	0.8		0	to 3.1	0.46 ± 0.054		62
Ammonia (N) (mg/L)		2.2	3.2		0.08 U	to 5.6	0.36 ± 0.095		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2	0.77 ± 0.1		63
Organic Carbon (mg/L)		13	18		1.5	to 62.6	11 ± 1.2		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

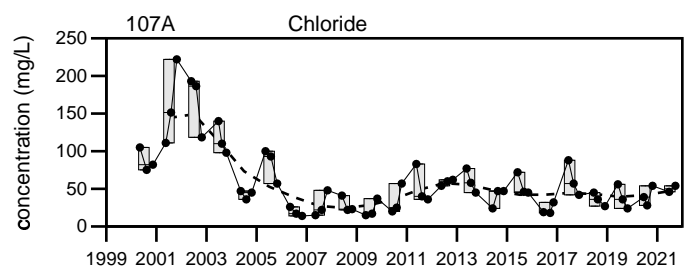
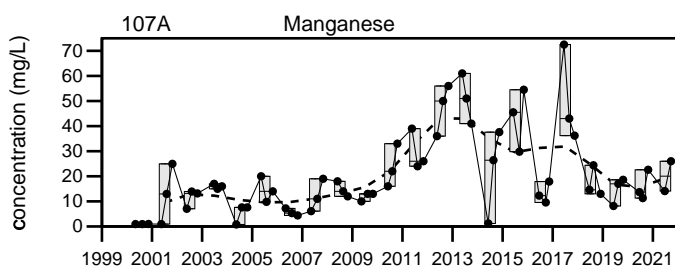
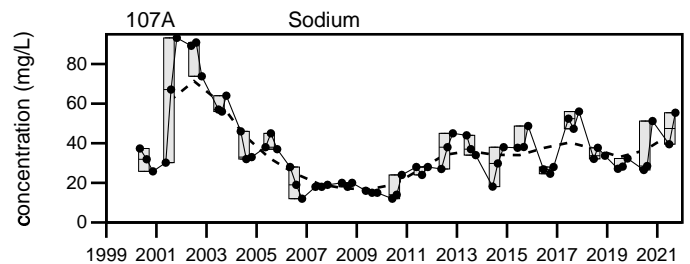
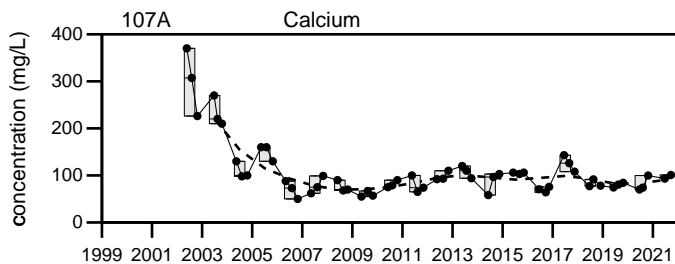
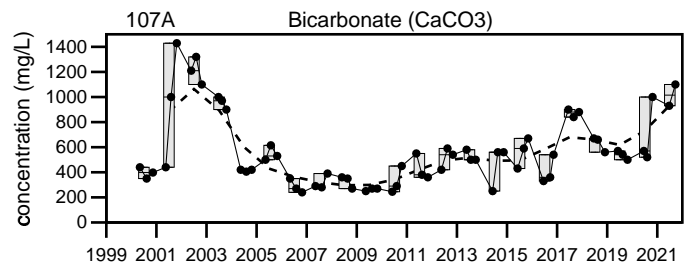
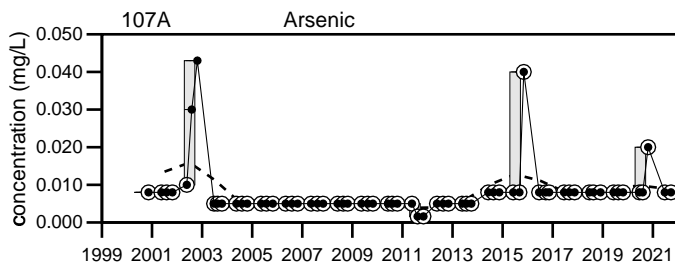
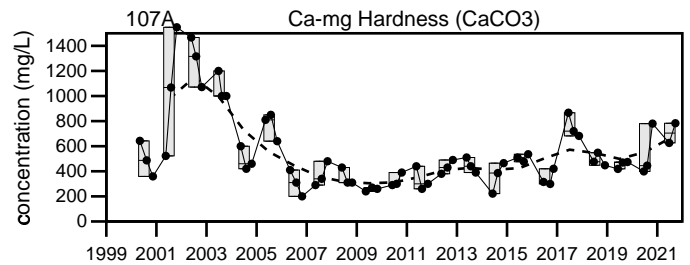
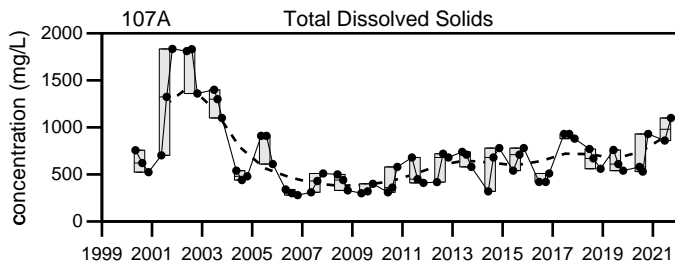
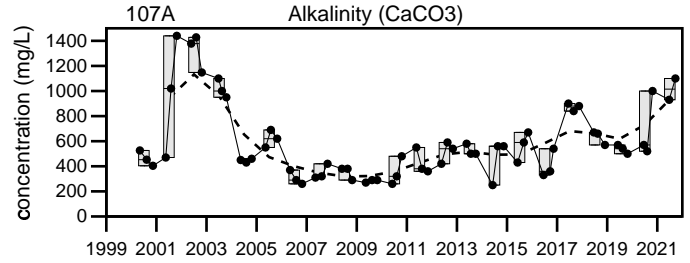
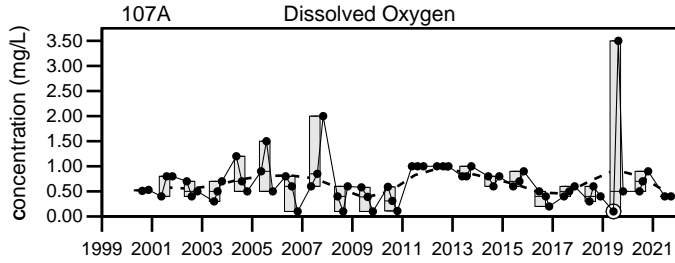
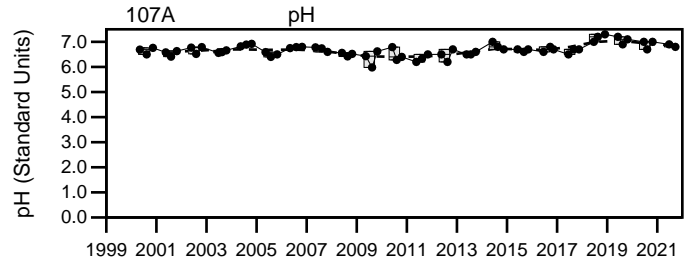
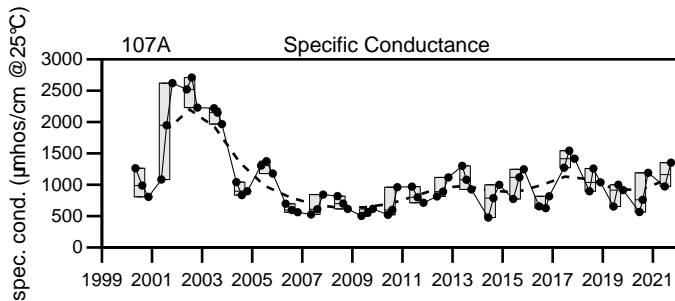
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

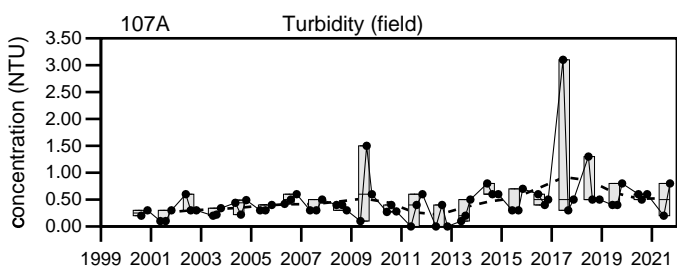
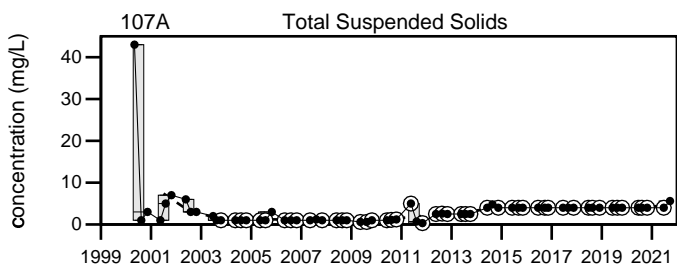
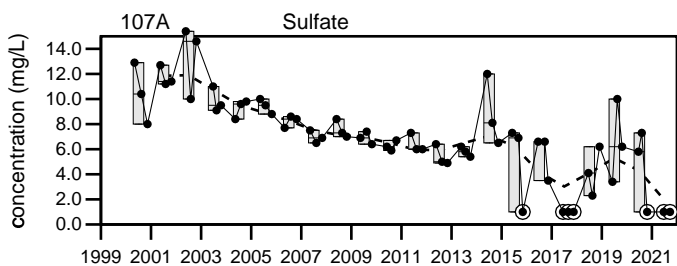
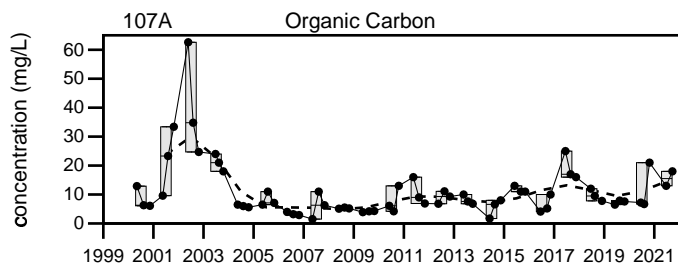
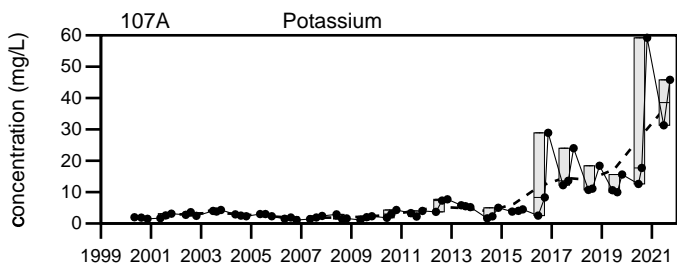
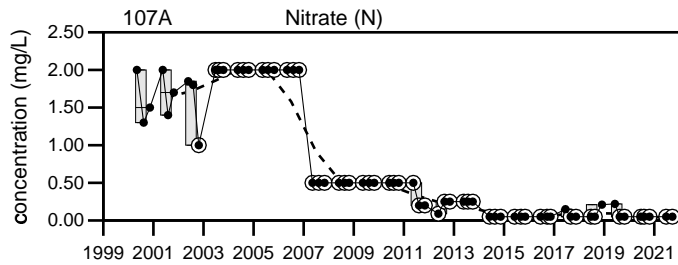
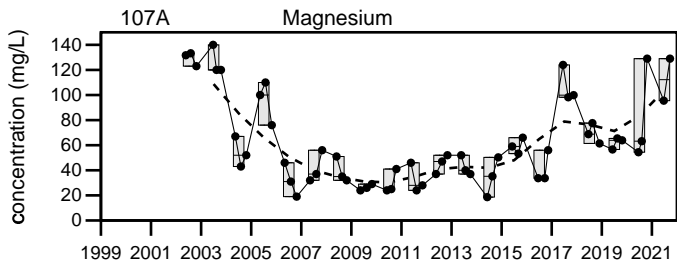
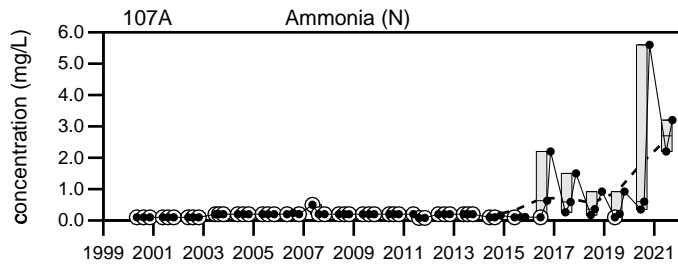
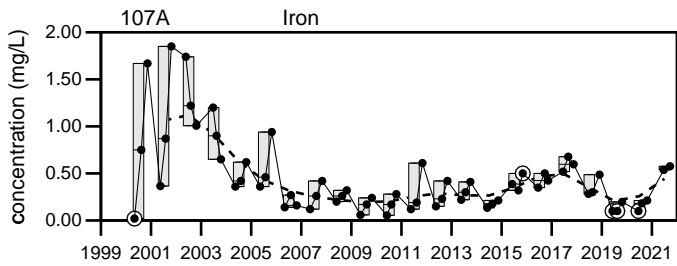
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
107A



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
107A

Well Description

Well located downgradient to northwest of Dolby I Landfill.

Screen Interval: **Unknown TOS to 21.6 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Nov-83**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**

Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		932	961		683	to 1504	1100 ± 25		60
Dissolved Oxygen (mg/L)		4.3	4.7		0.1	to 9.9	1.3 ± 0.25		59
pH (STU)		6.7	6.8		6	to 7.3	6.4 ± 0.032		60
Turbidity (field) (NTU)		1.2	1.2		0	to 4.2	0.77 ± 0.092		59

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

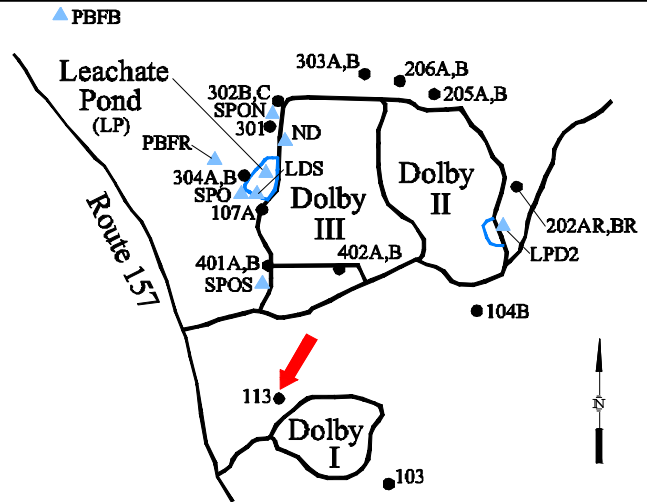
Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

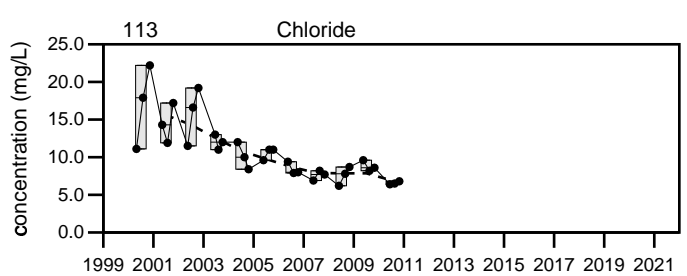
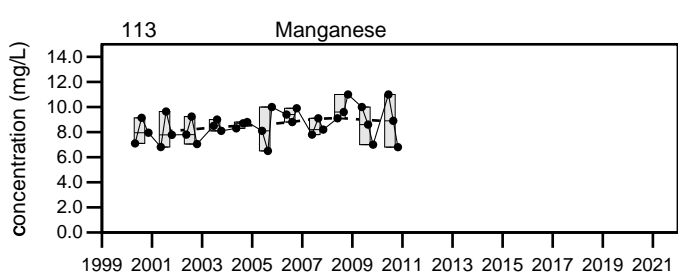
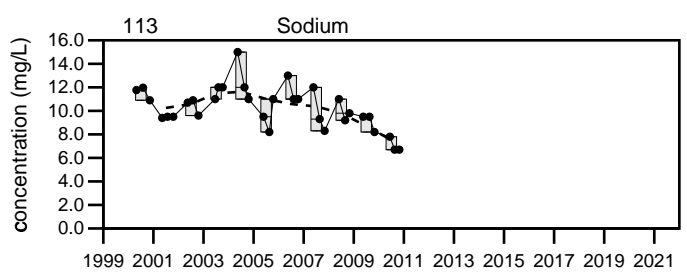
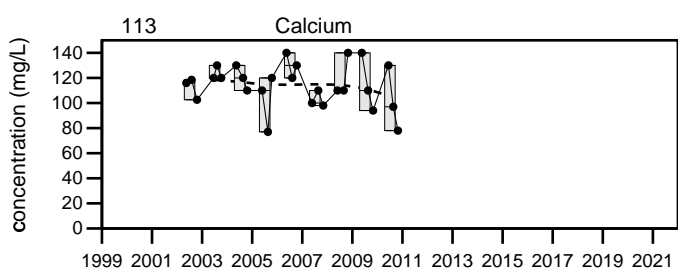
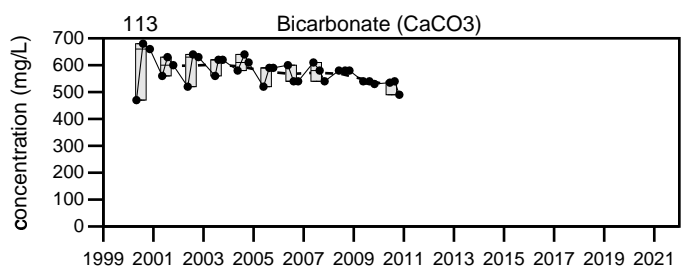
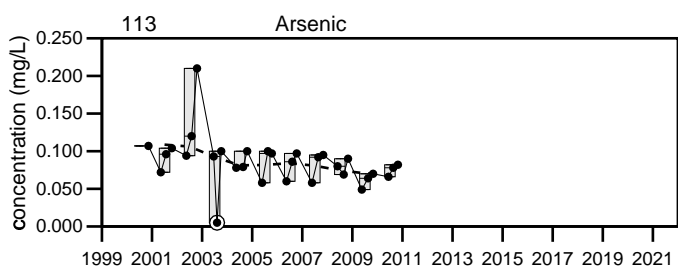
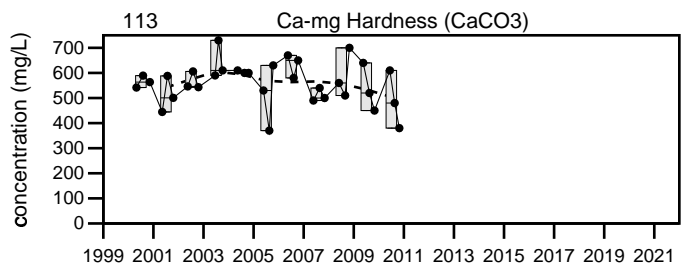
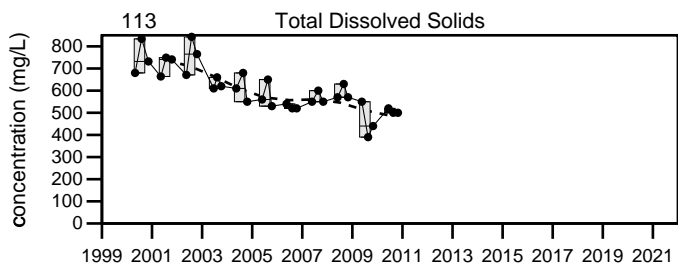
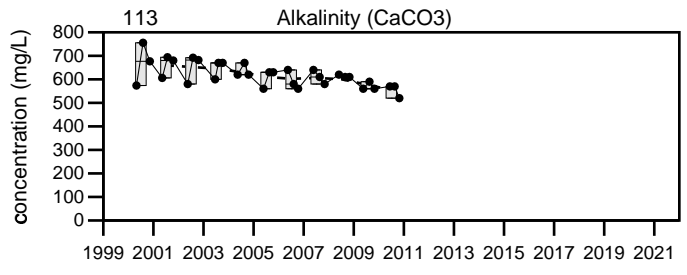
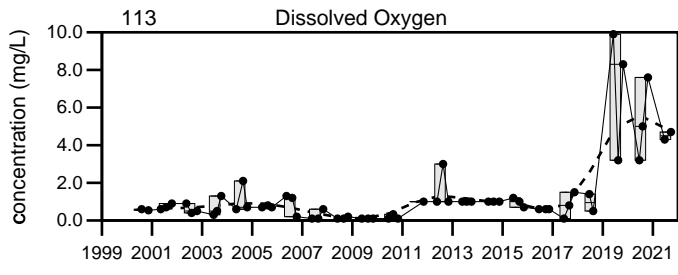
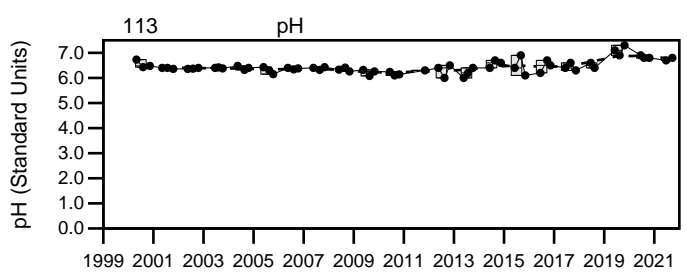
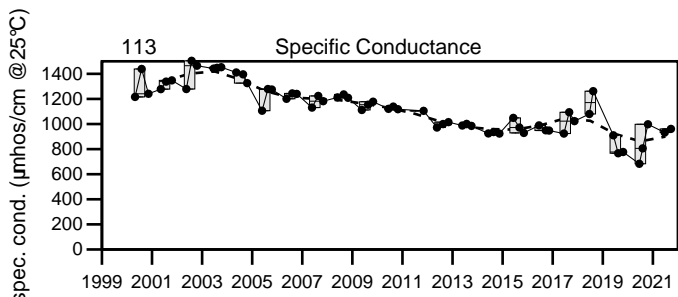
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021

Q3= 9 - 2021



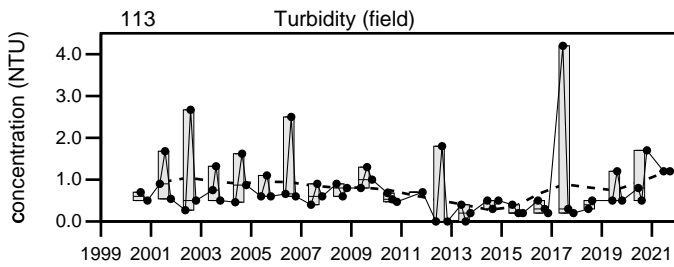
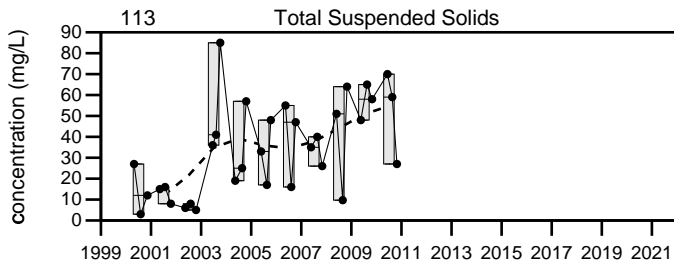
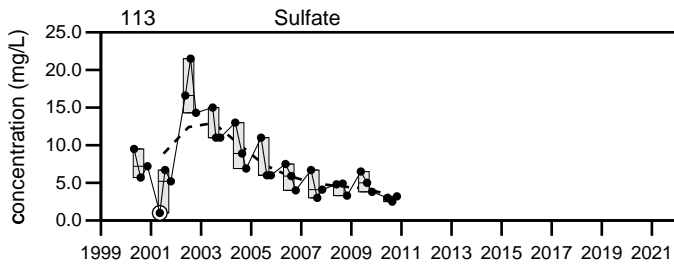
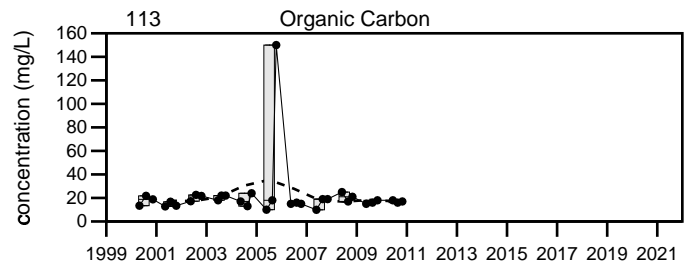
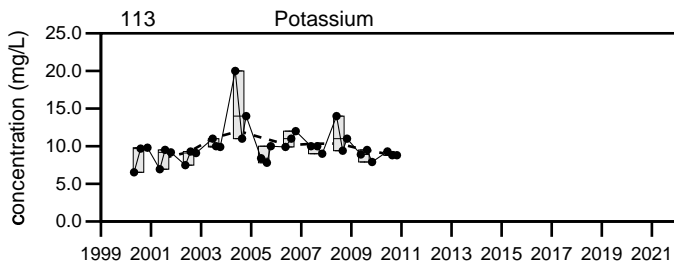
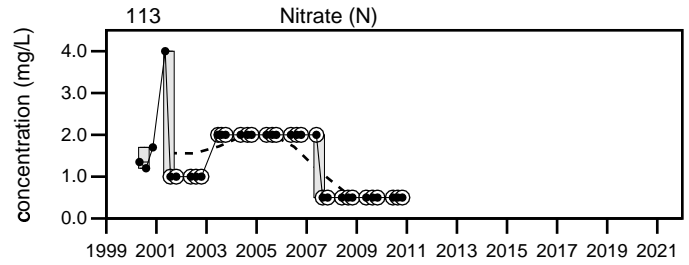
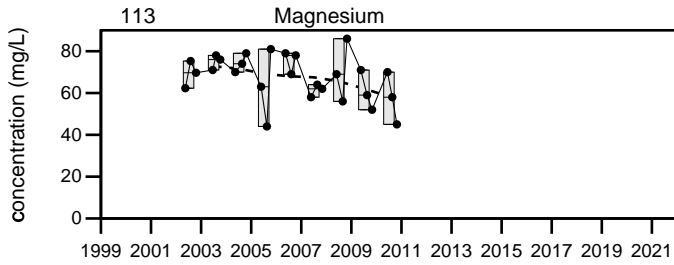
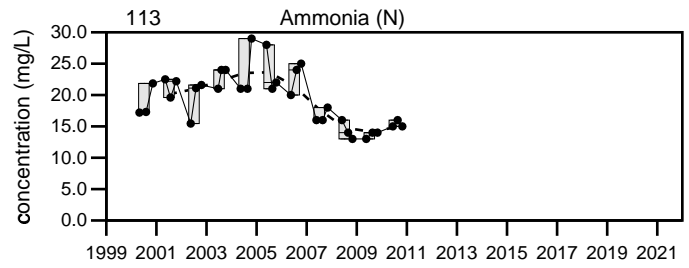
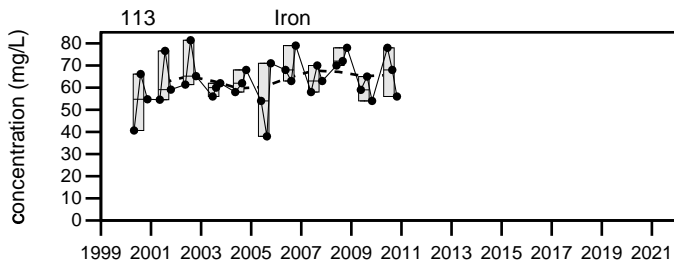


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
113

Sevee & Maher Engineers, Inc.



LEGEND

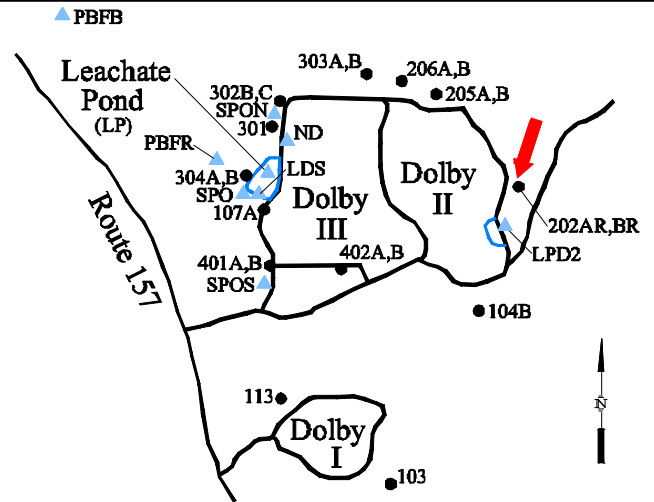
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
113

Well Description

Well located downgradient to the east of the Dolby II Landfill.

Screen Interval: **71.5 ft. to 81.5 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Oct-94**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1276	1298		1272	to 1995	1600 ± 23		62
Dissolved Oxygen (mg/L)		1.1	0.3		0.1	to 5.56	0.99 ± 0.14		61
Total Dissolved Solids (mg/L)		900	↓820		840	to 1176	980 ± 10		62
Arsenic (mg/L)		0.008 U	0.012		0.005 U	to 0.071	0.014 ± 0.001		60
Calcium (mg/L)		219	200		122.8	to 500	240 ± 7.7		56
Manganese (mg/L)		14.1	14.7		13.7	to 26	18 ± 0.33		62
pH (STU)		6.6	6.5		6.06	to 6.9	6.6 ± 0.016		62
Alkalinity (CaCO3) (mg/L)		900	910		100	to 1110	940 ± 17		62
Ca-mg Hardness (CaCO3) (mg/L)		846	794		469.3	to 1700	940 ± 24		62
Bicarbonate Alkalinity (CaCO3) (mg/L)		900	910		98	to 1105	910 ± 15		62
Sodium (mg/L)		23	↓ 20.7		21.2	to 39	26 ± 0.48		62
Chloride (mg/L)		16	15		14	to 41.2	23 ± 0.89		62
Iron (mg/L)		0.666	2.01		0.35	to 2.04	1.3 ± 0.047		62
Magnesium (mg/L)		72.8	71.3		39.5	to 130	82 ± 1.9		56
Potassium (mg/L)		13.8	12.8		8.32	to 17	13 ± 0.22		62
Sulfate (mg/L)		1 U	1 U		1 U	to 12.5	4.5 ± 0.38		62
Total Suspended Solids (mg/L)		4 U	4 U		0.6 U	to 17	3.3 ± 0.3		62
Turbidity (field) (NTU)		0.2	0.3		0	to 1.7	0.41 ± 0.042		61
Ammonia (N) (mg/L)		3	3.5		0.784	to 4.8	2.9 ± 0.11		62
Nitrate (N) (mg/L)		0.82	0.05 U		0.05 U	to 2.7	0.77 ± 0.11		62
Organic Carbon (mg/L)		10	9.8		7.5	to 47	13 ± 0.7		62

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

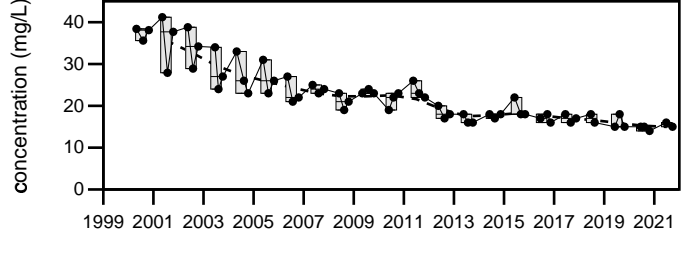
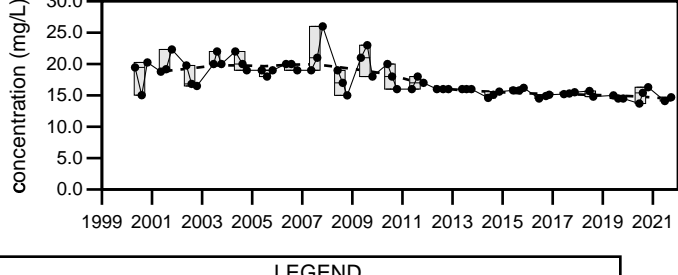
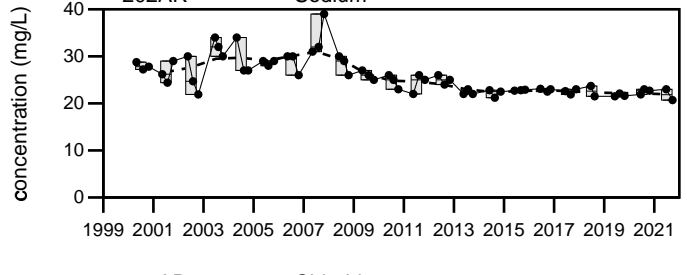
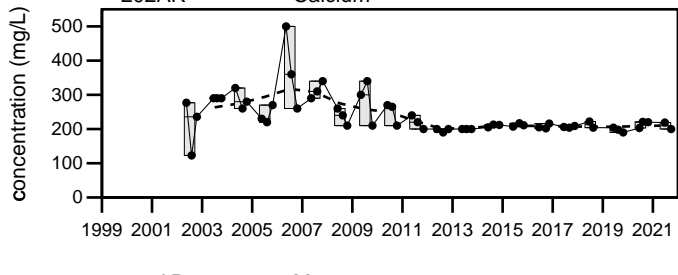
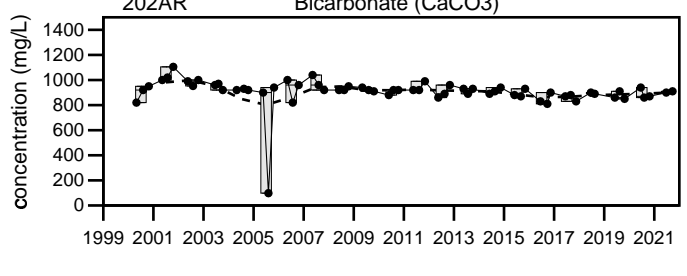
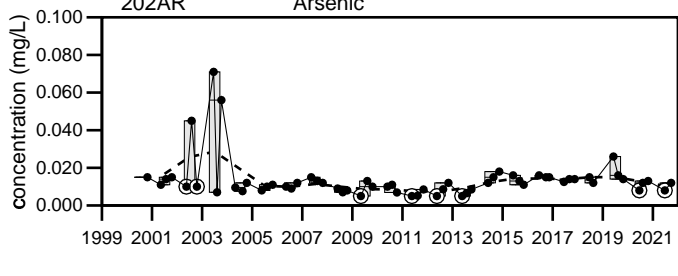
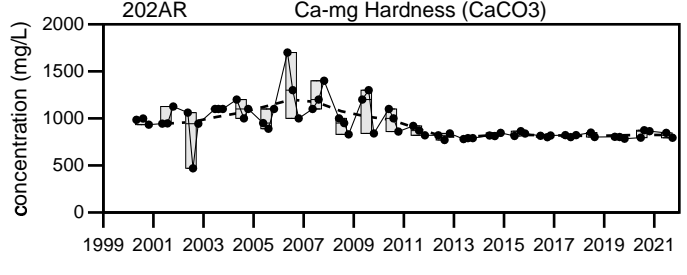
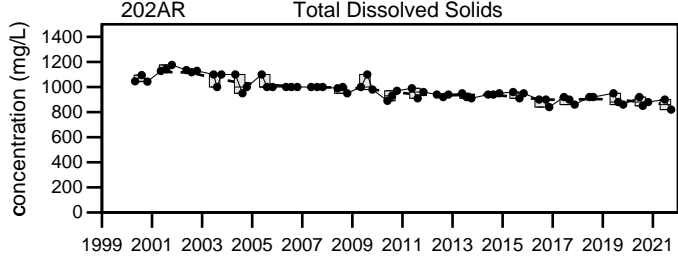
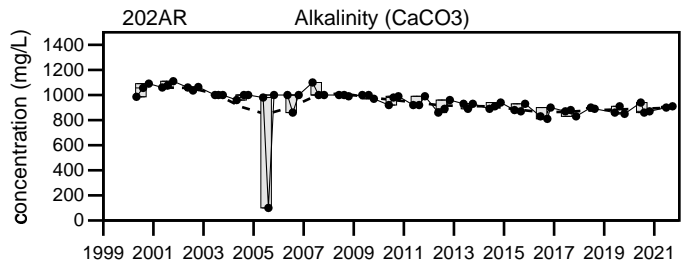
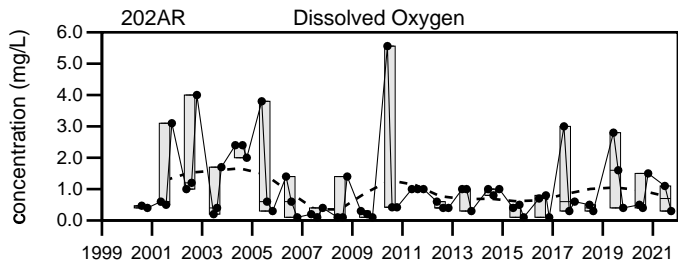
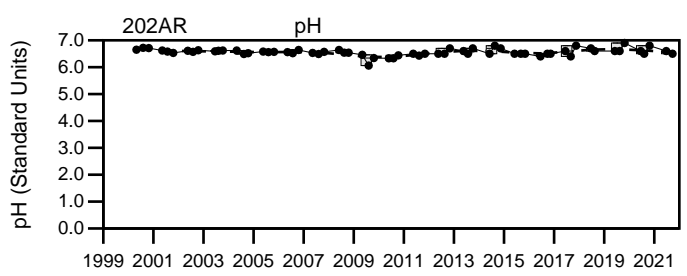
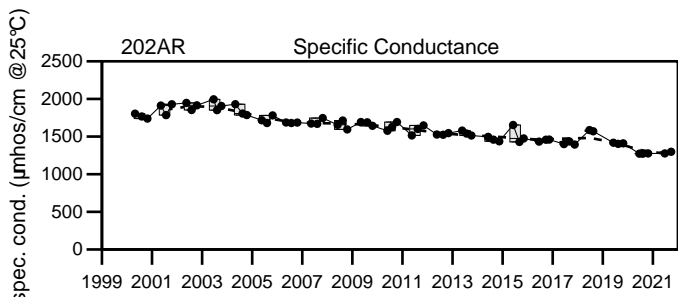
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

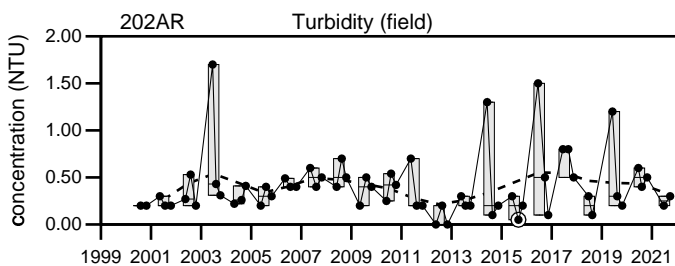
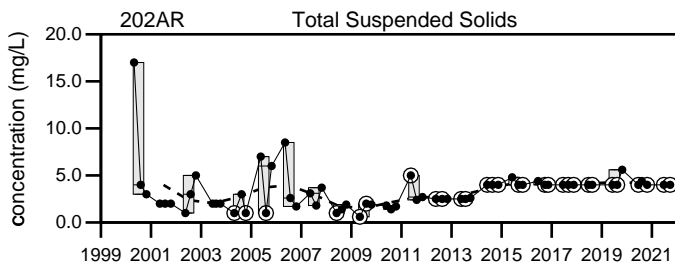
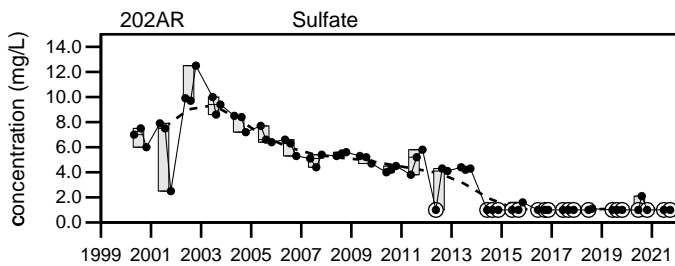
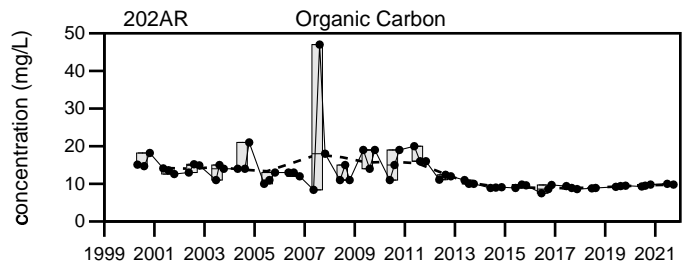
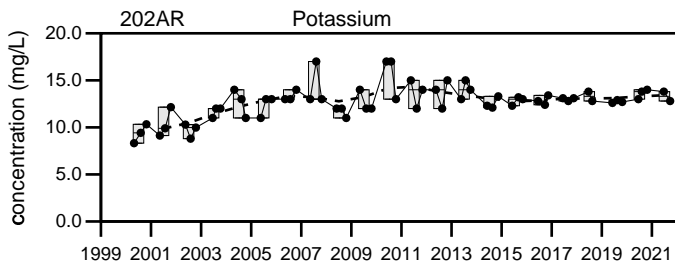
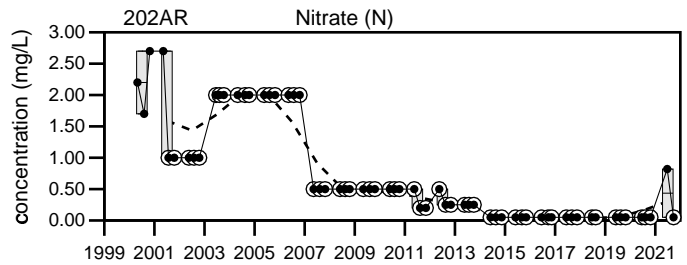
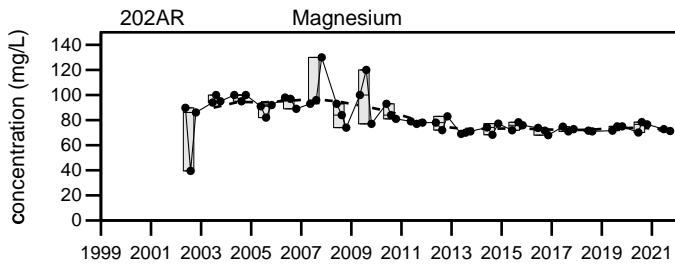
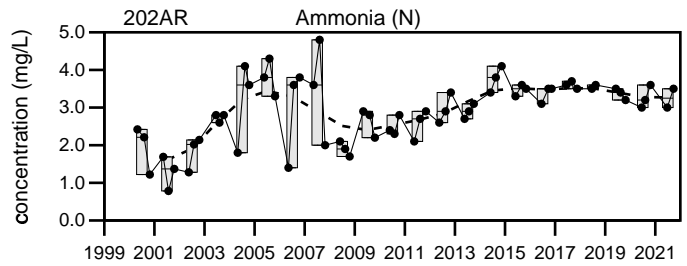
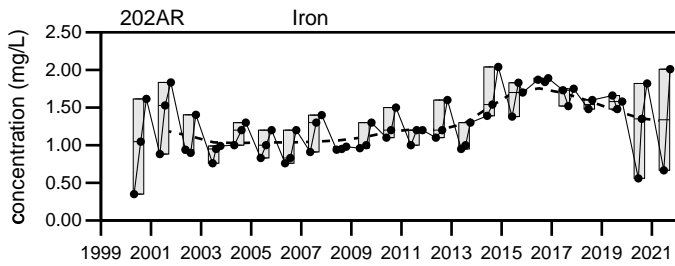
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
202AR



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill

202AR

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the east of the Dolby II Landfill.

Screen Interval:

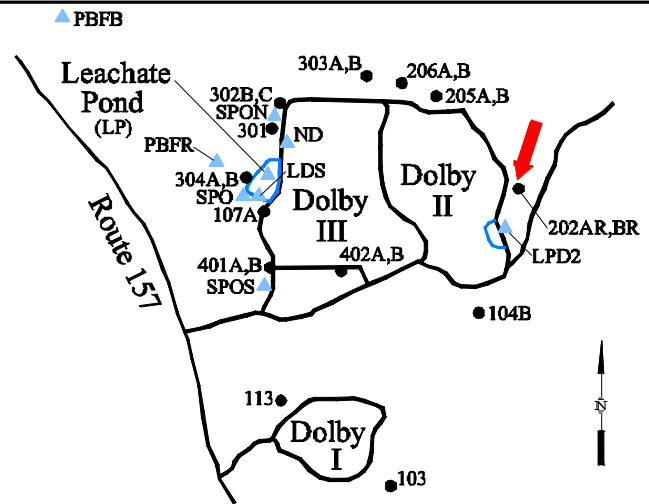
Sampled: **2 Times Annually**

Sampled Since: **Sep-21**

Material Screened: **Glacial Till/Bedrock**

Well Condition: **Good**

Sampling Method: **Low Flow**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		!	1431		604	to 1910	1100 ± 44		57
Dissolved Oxygen (mg/L)		!	0.7		0.1	to 6.29	0.99 ± 0.14		56
Total Dissolved Solids (mg/L)		!	950		380	to 1241	660 ± 27		57
Arsenic (mg/L)		!	0.008 U		0.0016 U	to 0.031	0.0073 ± 0.000		55
Calcium (mg/L)		!	186		25	to 230	120 ± 5.9		51
Manganese (mg/L)		!	14.2		3.1	to 15.96	8.7 ± 0.35		57
pH (STU)		!	6.4		5.96	to 7	6.5 ± 0.021		57
Alkalinity (CaCO3) (mg/L)		!	1000		360	to 1196.9	640 ± 25		57
Ca-mg Hardness (CaCO3) (mg/L)		!	922		170	to 1100	590 ± 27		57
Bicarbonate Alkalinity (CaCO3) (mg/L)		!	1000		360	to 1130	610 ± 24		57
Sodium (mg/L)		!	27.8		6	to 38.3	21 ± 0.91		57
Chloride (mg/L)		!	21		6.5	to 55.3	19 ± 1.4		57
Iron (mg/L)		!	0.147		0.02 U	to 10.6	1.4 ± 0.24		57
Magnesium (mg/L)		!	111		22	to 130	67 ± 3.2		51
Potassium (mg/L)		!	↑24.5		4	to 15.8	10 ± 0.35		57
Sulfate (mg/L)		!	1 U		1 U	to 33	8.5 ± 0.83		57
Total Suspended Solids (mg/L)		!	5.6		1 U	to 540	28 ± 10		57
Turbidity (field) (NTU)		!	1.2		0	to 64.7	10 ± 2		56
Ammonia (N) (mg/L)		!	4.5		0.2 U	to 5.4	2.2 ± 0.13		57
Nitrate (N) (mg/L)		!	0.074		0.05 U	to 10	1.2 ± 0.2		57
Organic Carbon (mg/L)		!	14		3.7	to 47	12 ± 0.94		57

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

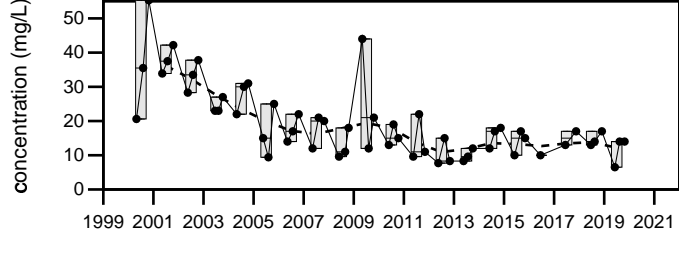
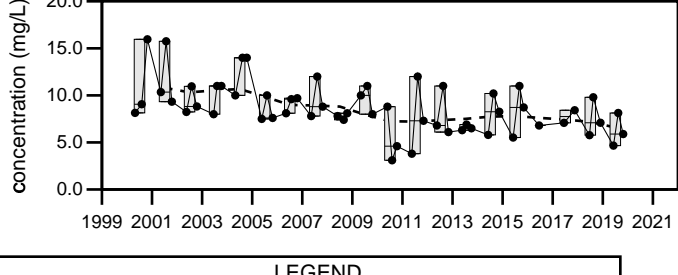
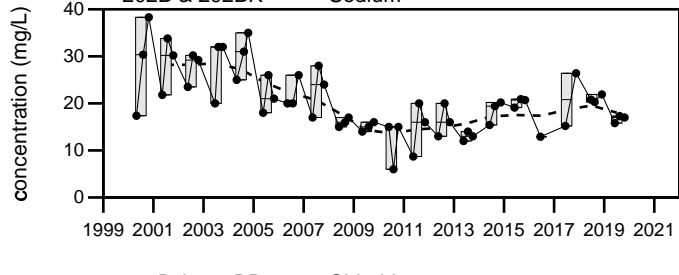
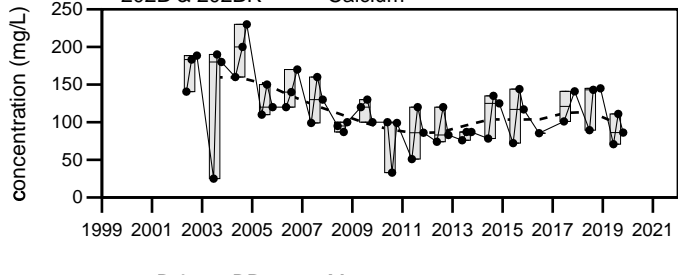
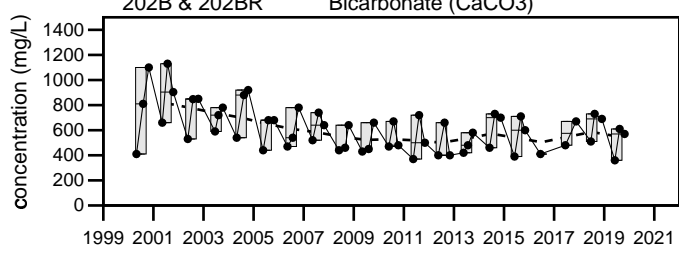
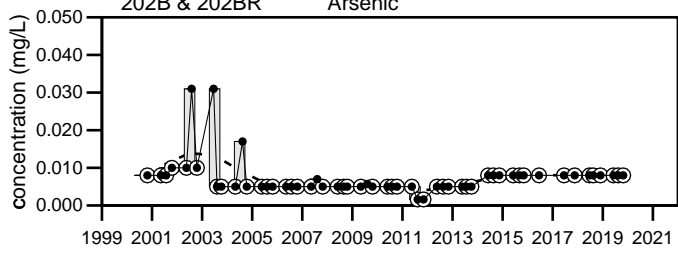
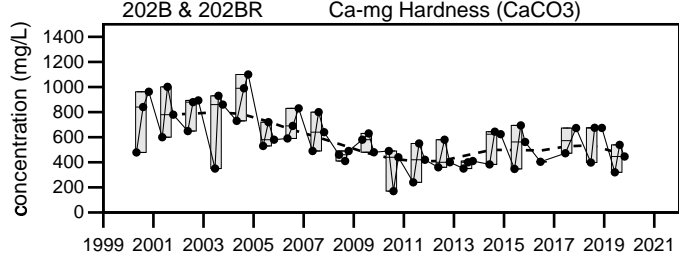
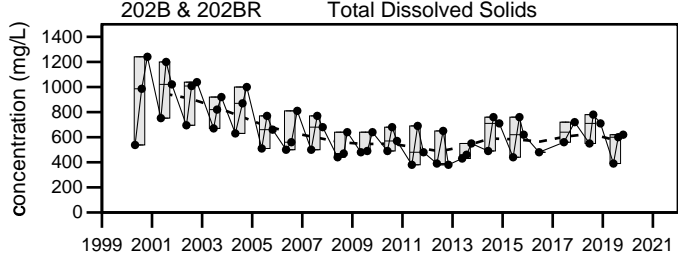
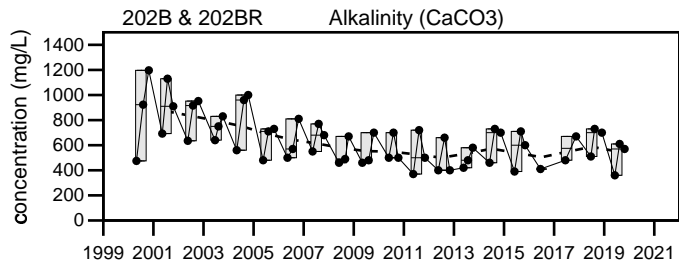
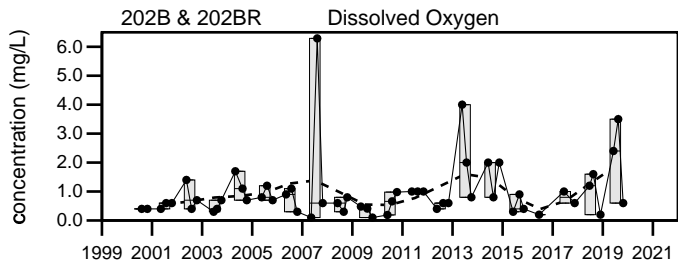
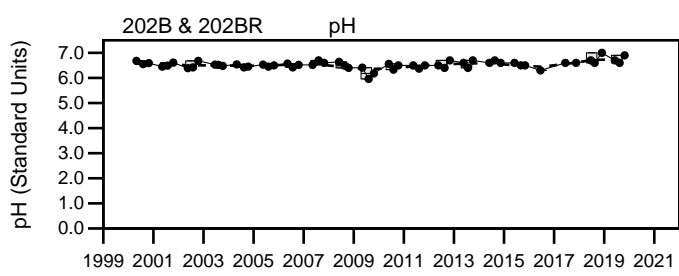
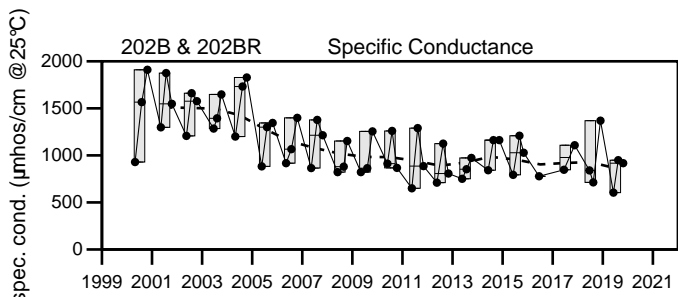
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021 ! = The sampling location was damaged or destroyed.

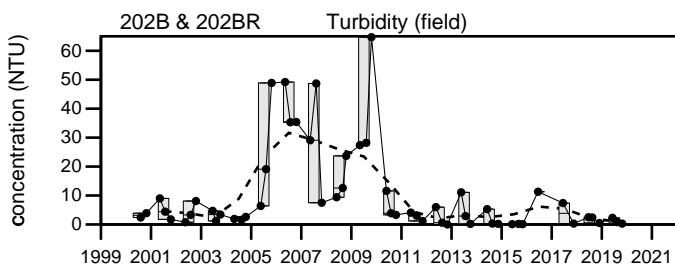
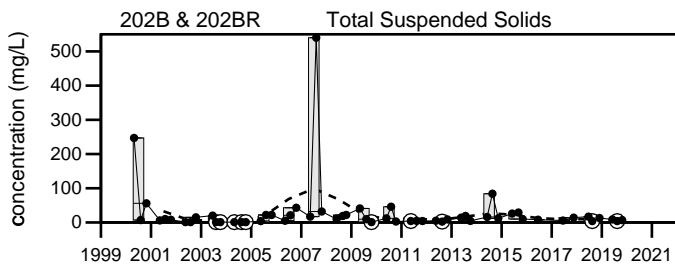
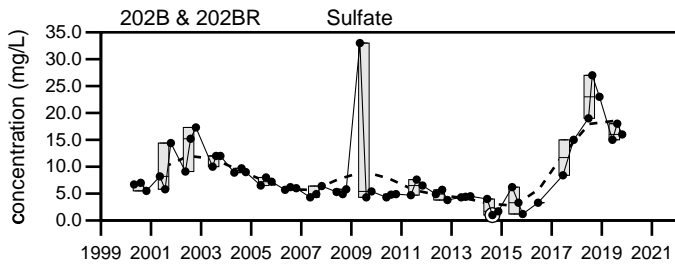
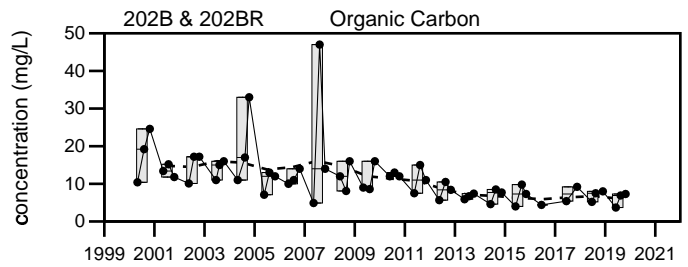
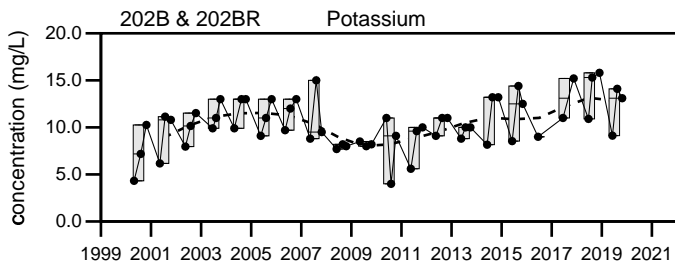
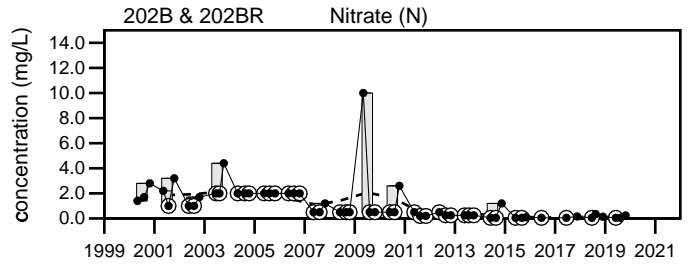
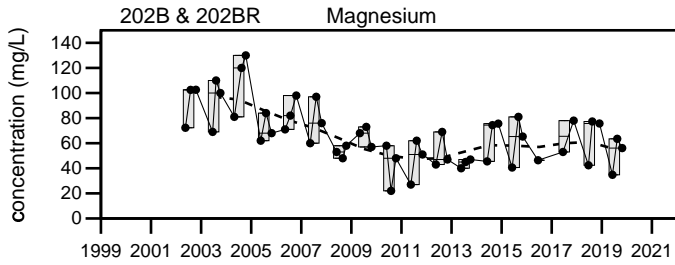
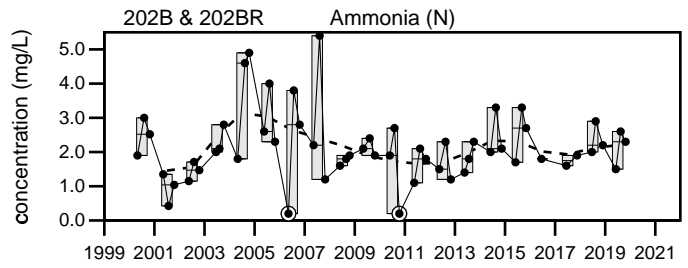
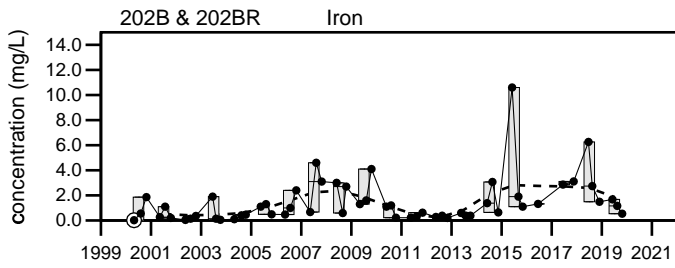


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
202B & 202BR

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill

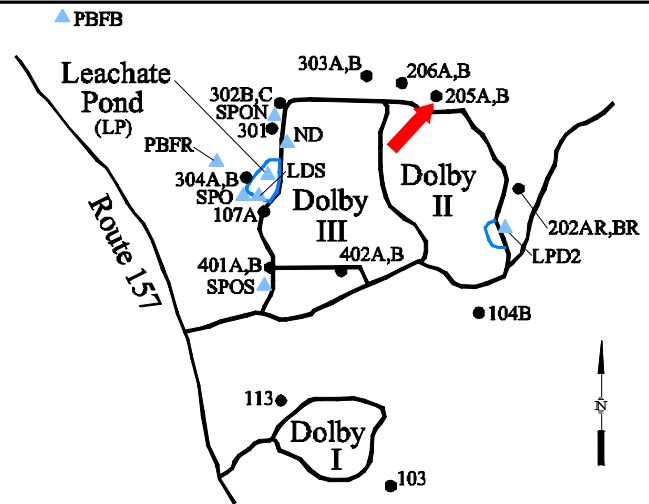
202B & 202BR

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the north of the Dolby II Landfill.

Screen Interval: **26 ft. to 31 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-86**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)	↓409	↓403			411 to 1013		670 ± 22		63
Dissolved Oxygen (mg/L)		1.2	0.6		0.1 to 8.6		1.1 ± 0.16		62
Total Dissolved Solids (mg/L)		290	230		95 to 550		360 ± 12		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U to 0.016		0.0068 ± 0.000		61
Calcium (mg/L)		65.1	↓55.7		55.8 to 180		94 ± 4.6		57
Manganese (mg/L)		0.197	0.785		0.16 to 1.7		0.93 ± 0.035		63
pH (STU)		7	7.1		6.56 to 7.8		7.1 ± 0.032		63
Alkalinity (CaCO3) (mg/L)		200	180		40 to 500		280 ± 13		63
Ca-mg Hardness (CaCO3) (mg/L)		217	189		188 to 610		310 ± 14		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		200	180		160 to 480		270 ± 11		63
Sodium (mg/L)		21.9	20.3		14.13 to 42		24 ± 0.62		63
Chloride (mg/L)		38	39		29 to 74.5		42 ± 1		63
Iron (mg/L)		0.202	0.217		0.1 U to 3.326		1.1 ± 0.11		63
Magnesium (mg/L)		13.4	12.2		11.7 to 39		21 ± 0.99		57
Potassium (mg/L)		1.9	1.85		1.44 to 4.5		2.5 ± 0.095		63
Sulfate (mg/L)		8.8	7		3.1 to 33		9.4 ± 0.45		63
Total Suspended Solids (mg/L)		4 U	4 U		1 U to 6		2.8 ± 0.16		63
Turbidity (field) (NTU)		0.6	0.3		0 to 2.9		0.59 ± 0.062		62
Ammonia (N) (mg/L)		0.1 U	0.3		0.08 U to 0.55		0.23 ± 0.013		63
Nitrate (N) (mg/L)		0.13	0.05 U		0.05 U to 10		0.92 ± 0.18		63
Organic Carbon (mg/L)		2.2	1.3		1.1 to 63.7		4.4 ± 1		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

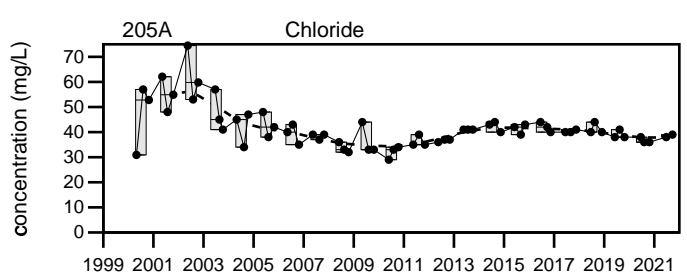
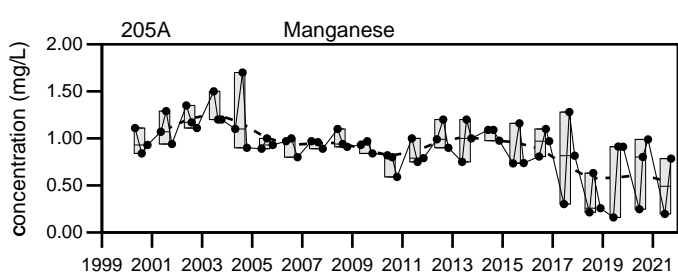
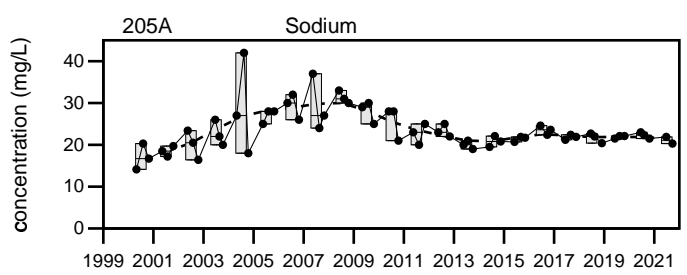
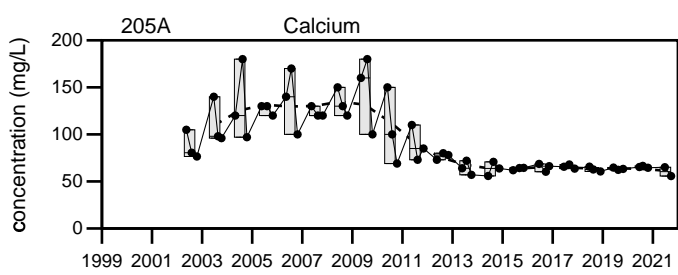
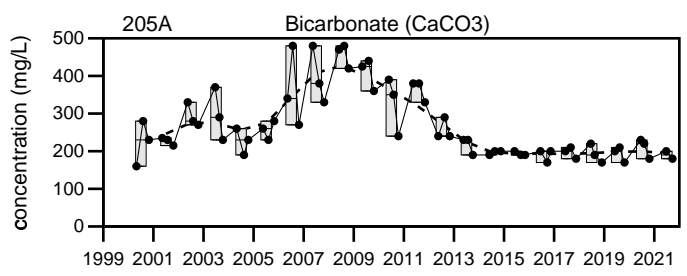
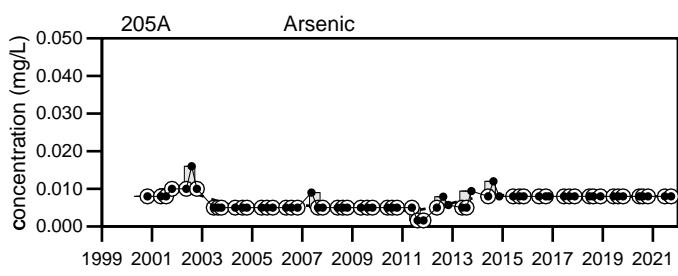
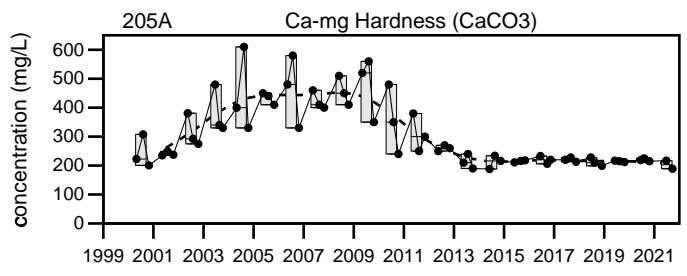
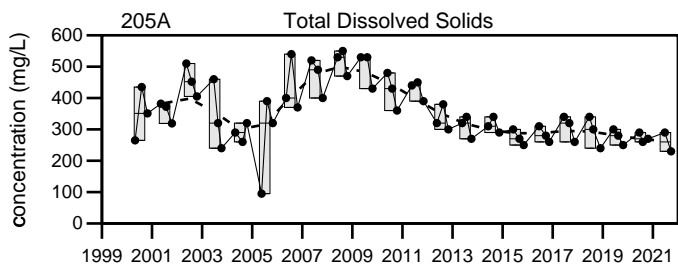
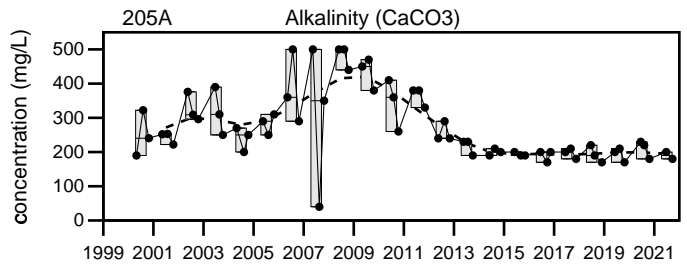
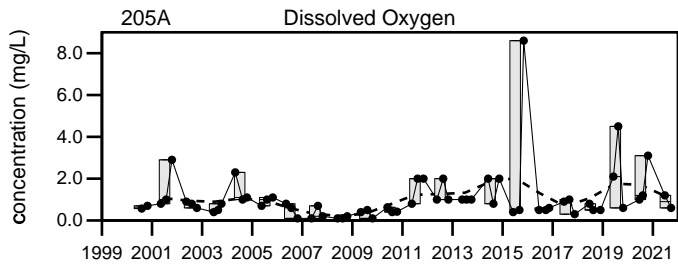
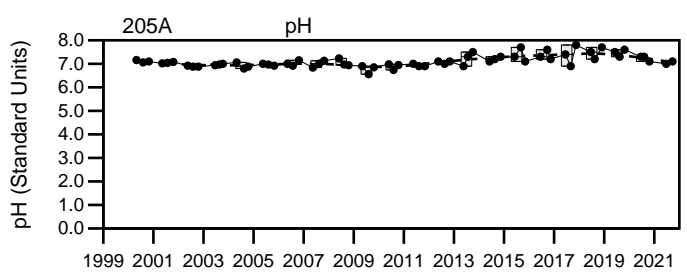
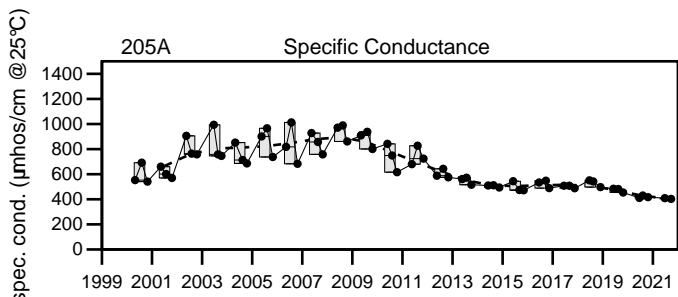
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

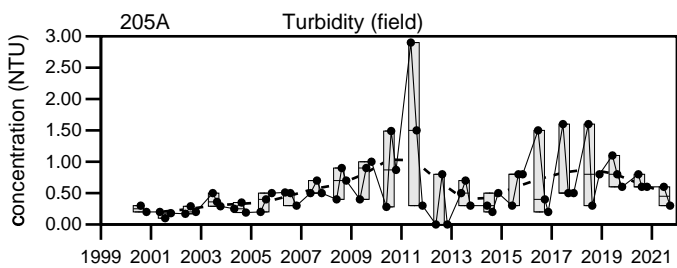
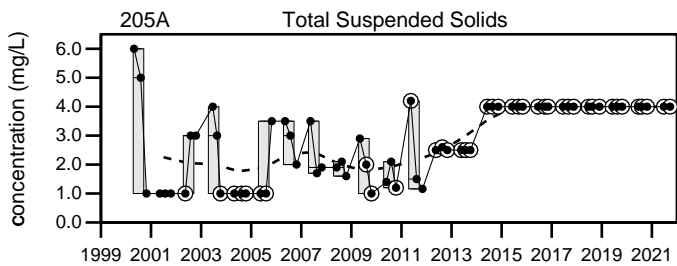
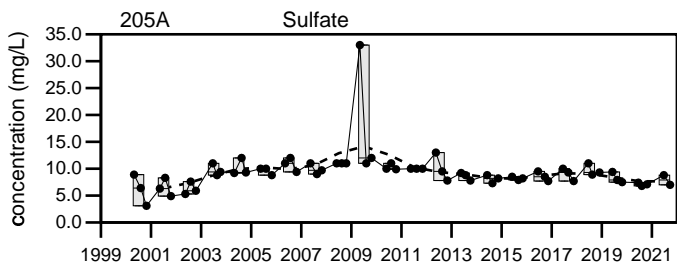
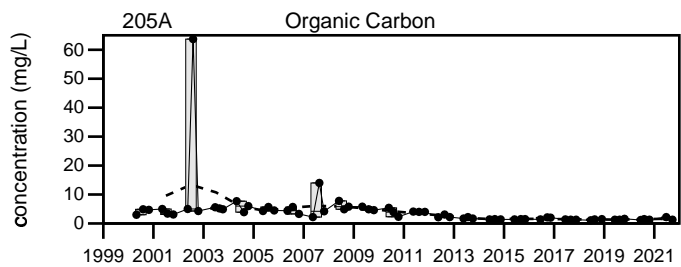
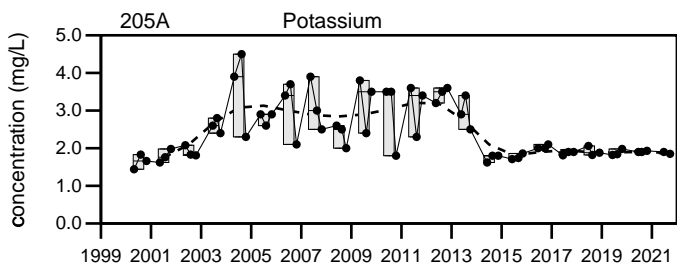
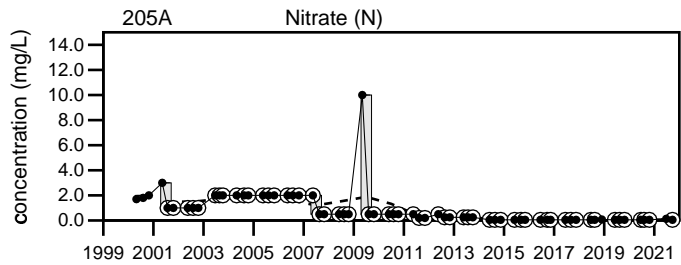
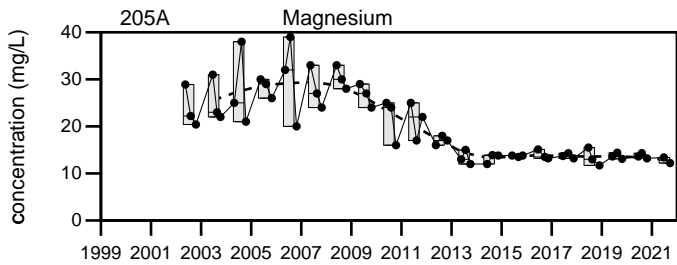
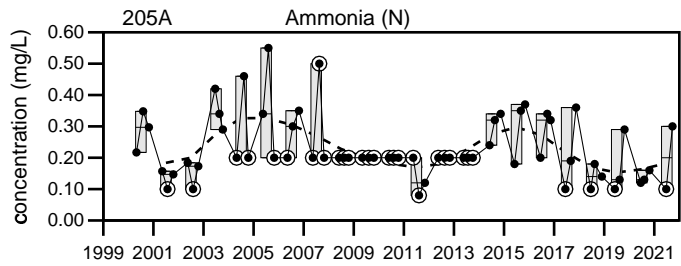
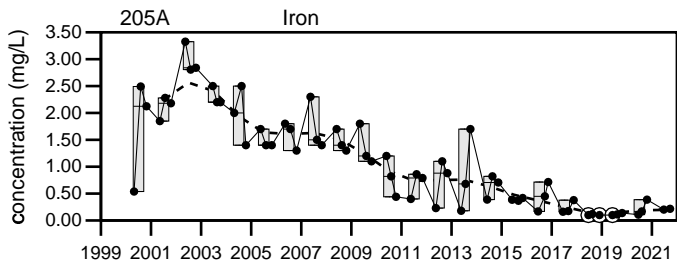


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
205A

Sevee & Maher Engineers, Inc.



LEGEND

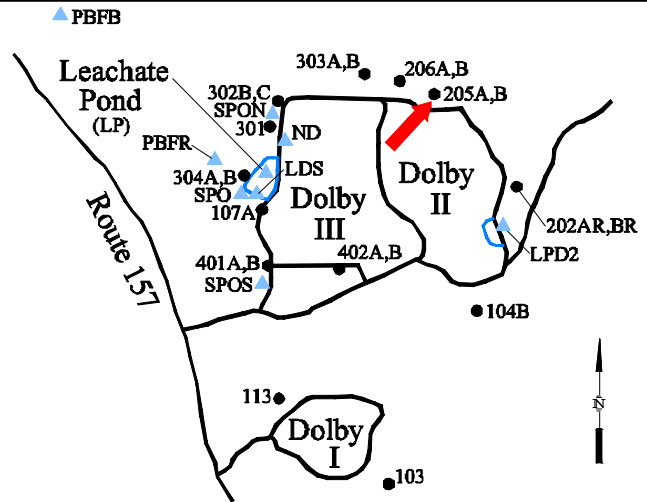
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
205A

Well Description

Well located downgradient to the north of the Dolby II Landfill.

Screen Interval: **10 ft. to 15 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-86**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		228	247		178	to 1274	450 ± 32		63
Dissolved Oxygen (mg/L)		0.8	0.3		0.1	to 4.4	0.93 ± 0.099		62
Total Dissolved Solids (mg/L)		140	150		91	to 664	220 ± 14		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.021	0.0066 ± 0.000		61
Calcium (mg/L)		37.1	37.4		23.8	to 140	55 ± 3.8		57
Manganese (mg/L)		0.443	0.21		0.065	to 9.33	1.1 ± 0.23		63
pH (STU)		7.2	6.9		6.44	to 8	7.1 ± 0.037		63
Alkalinity (CaCO3) (mg/L)		120	140		87	to 586	190 ± 13		63
Ca-mg Hardness (CaCO3) (mg/L)		125	134		87.7	to 540.7	210 ± 14		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		120	140		87	to 540	180 ± 11		63
Sodium (mg/L)		4.14	4.21		3.64	to 27	8.6 ± 0.59		63
Chloride (mg/L)		2 U	2 U		0.5 U	to 34.4	4.7 ± 0.85		63
Iron (mg/L)		0.174	0.1 U		0.01 U	to 0.63	0.18 ± 0.02		63
Magnesium (mg/L)		7.89	9.91		6.8	to 60.9	16 ± 1.5		57
Potassium (mg/L)		1.04	1.15		0.96	to 2.4	1.4 ± 0.046		63
Sulfate (mg/L)		3.5	2.8		2.7	to 14.6	8 ± 0.41		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U	to 36	2.9 ± 0.56		63
Turbidity (field) (NTU)		0.2	0.1		0	to 4.24	0.58 ± 0.077		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.5	0.16 ± 0.01		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2.3	0.74 ± 0.097		63
Organic Carbon (mg/L)		1.6	1		0.98	to 90.6	3.4 ± 1.4		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

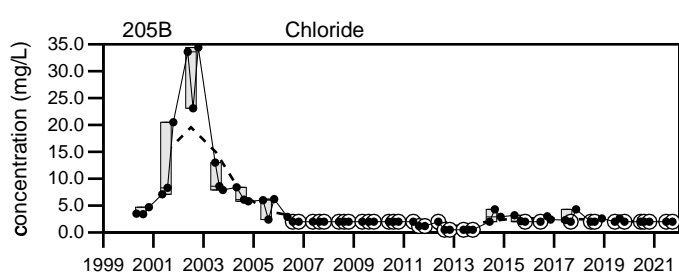
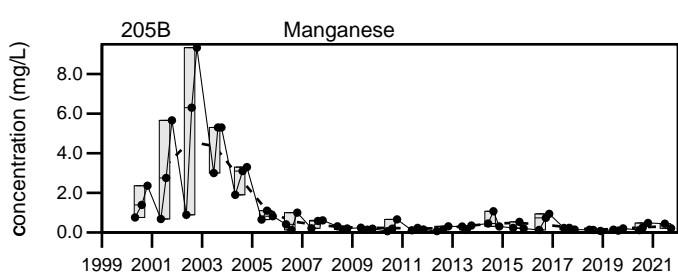
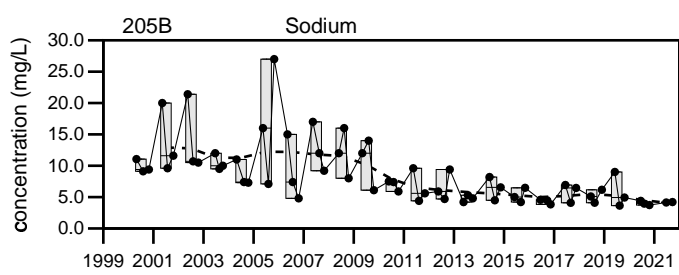
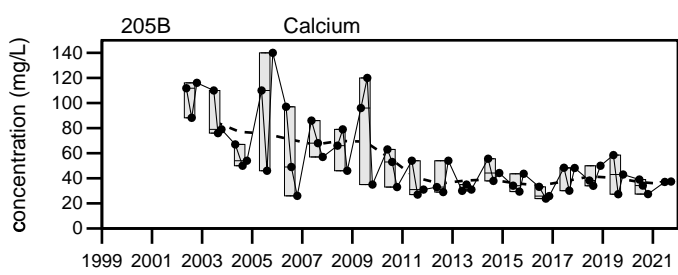
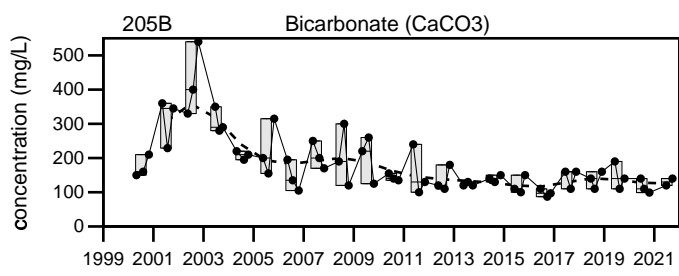
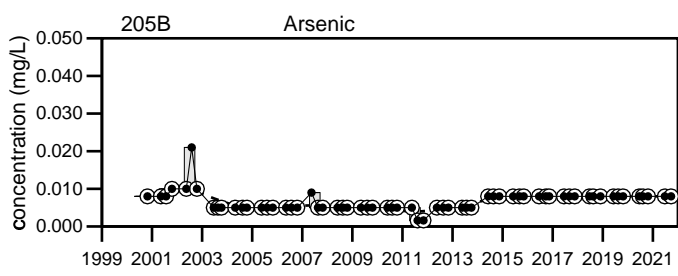
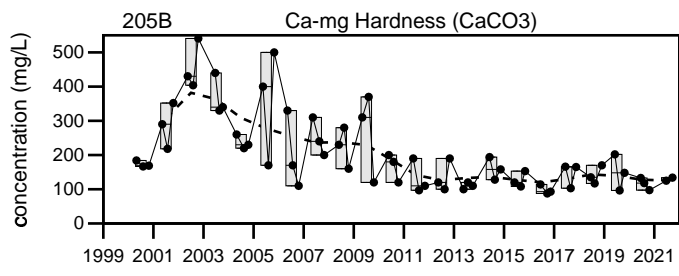
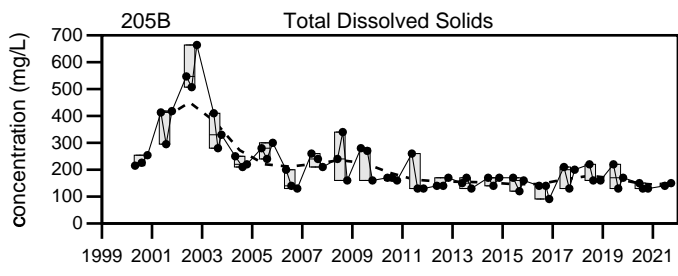
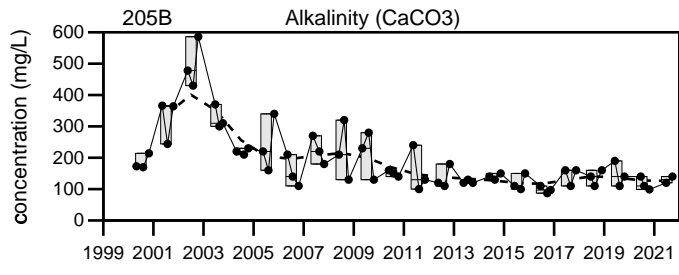
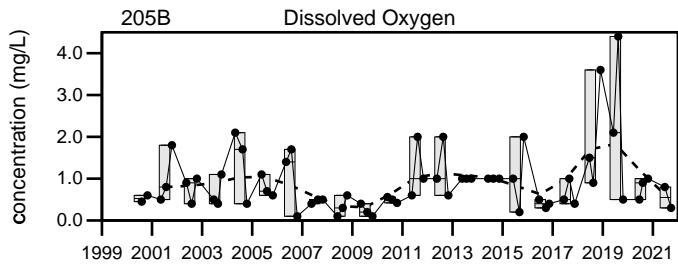
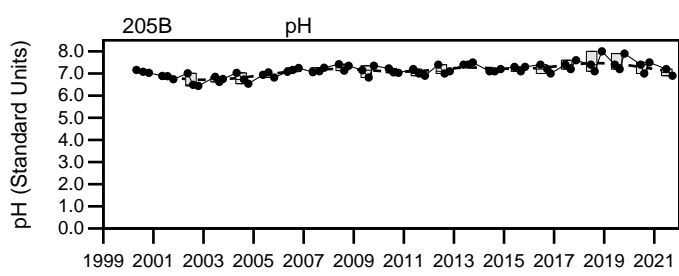
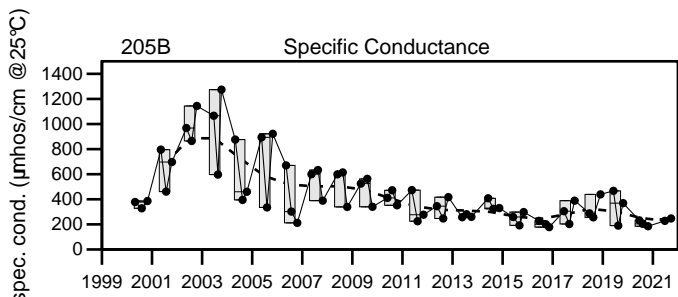
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

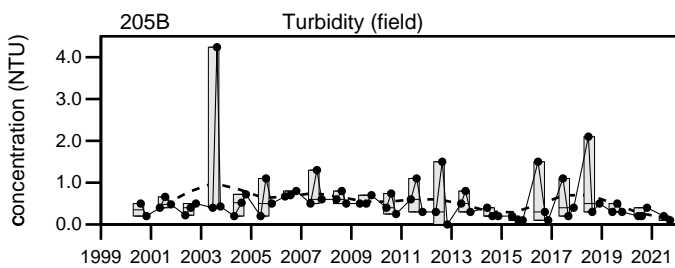
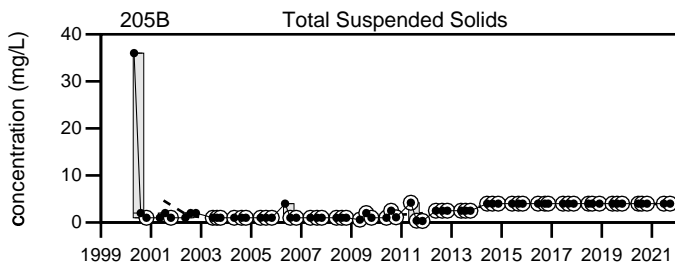
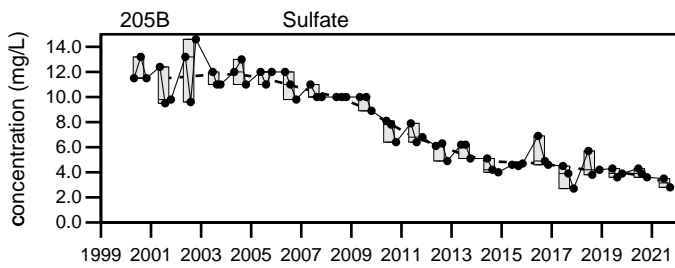
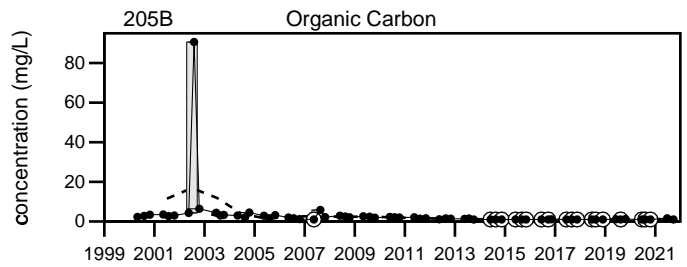
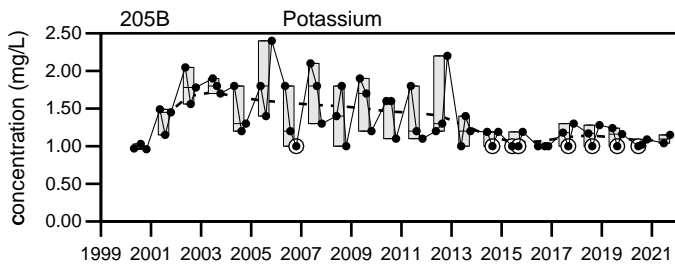
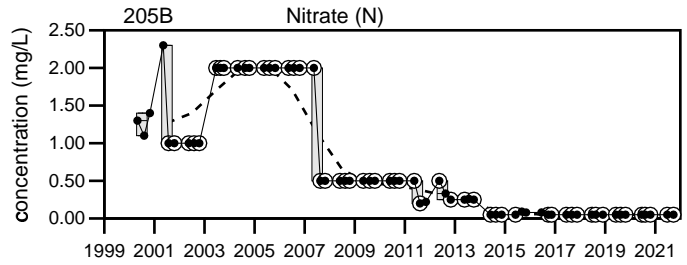
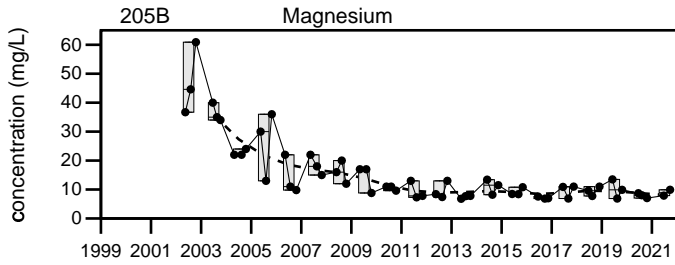
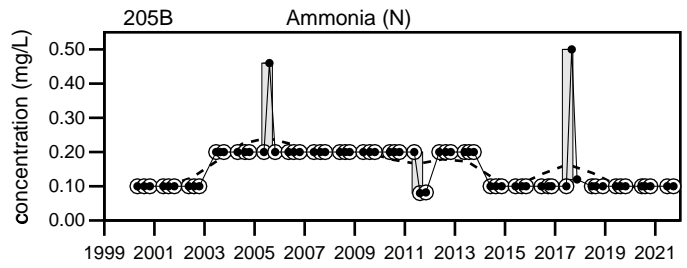
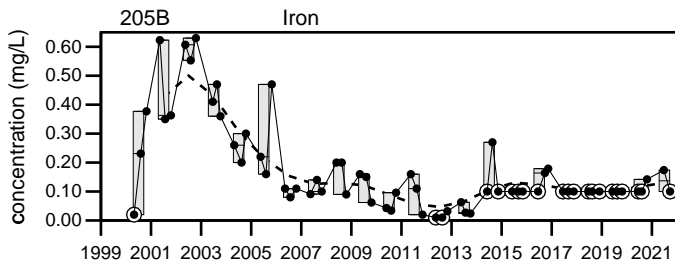
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
205B



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

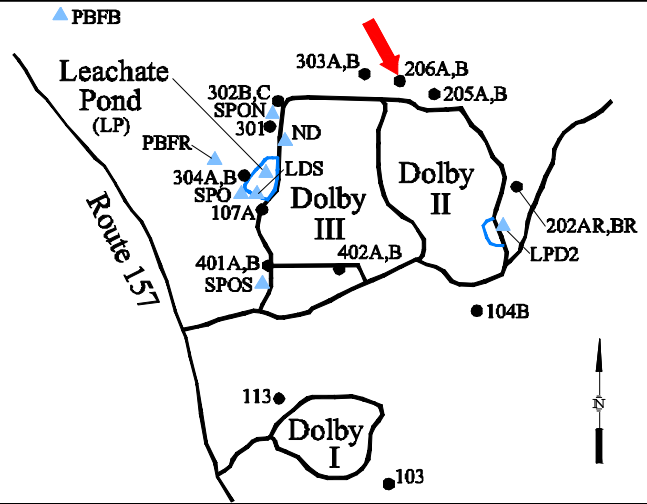
Dolby Landfill

205B

Well Description

Well located downgradient to the northwest of the Dolby II Landfill.

Screen Interval: **23.3 ft. to 28.3 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-86**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1881	2272		210 to 3480		2000 ± 84		63
Dissolved Oxygen (mg/L)		3.2	0.6		0.1 to 5.1		1 ± 0.13		62
Total Dissolved Solids (mg/L)		1000	1400		440 to 2088		1100 ± 41		63
Arsenic (mg/L)		0.27	0.307		0.039 to 0.45		0.22 ± 0.009		61
Calcium (mg/L)		119	135		17.2 to 147		98 ± 3.4		57
Manganese (mg/L)		3.85	4.37		0.52 to 9		5.3 ± 0.24		63
pH (STU)		6.8	6.6		6.04 to 6.9		6.6 ± 0.021		63
Alkalinity (CaCO3) (mg/L)		1100	1400		36 to 2010		1200 ± 45		63
Ca-mg Hardness (CaCO3) (mg/L)		960	1210		107 to 1500		960 ± 37		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		1100	1400		36 to 1997		1100 ± 46		63
Sodium (mg/L)		33.6	41.8		4.28 to 58.7		36 ± 1.5		63
Chloride (mg/L)		25	32		15 to 102		35 ± 2.4		63
Iron (mg/L)		42.8	46.6		2.84 to 52.3		33 ± 1.3		63
Magnesium (mg/L)		161	212		15.6 to 290		170 ± 7.2		57
Potassium (mg/L)		104	119		14 to 170		91 ± 3		63
Sulfate (mg/L)		1 U	1 U		1 U to 15		5.4 ± 0.49		63
Total Suspended Solids (mg/L)		72	53		2 to 96		52 ± 3		63
Turbidity (field) (NTU)		0.2	0.1		0 to 2.1		0.71 ± 0.055		62
Ammonia (N) (mg/L)		35	41		3.1 to 54		33 ± 1.1		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U to 5.1		0.89 ± 0.13		63
Organic Carbon (mg/L)		25	31		1.2 to 334.4		32 ± 5.1		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

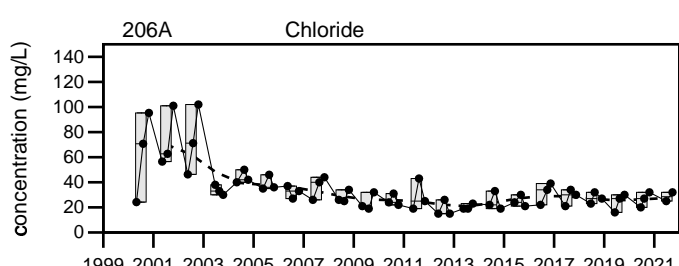
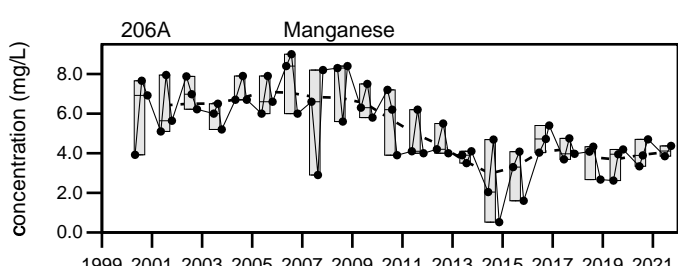
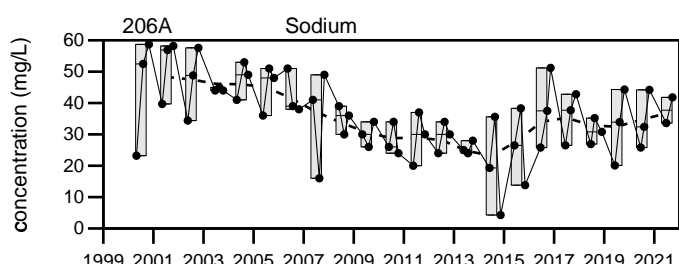
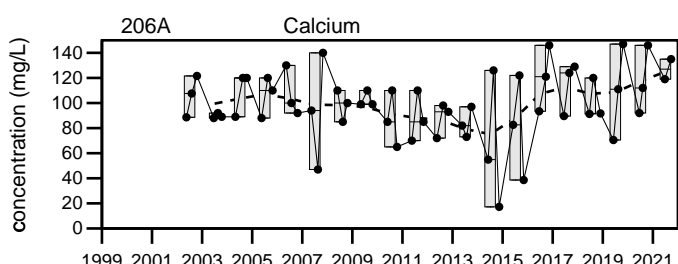
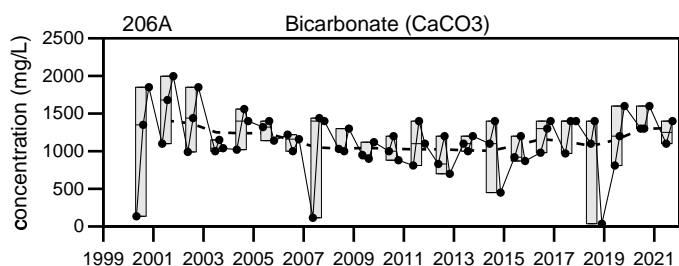
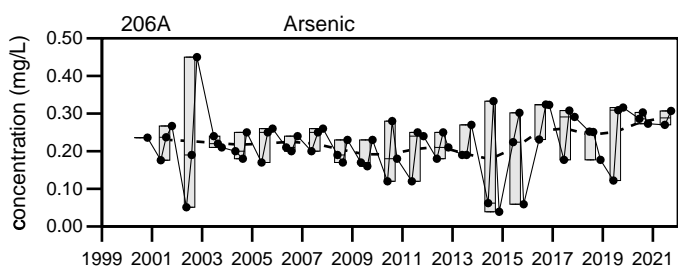
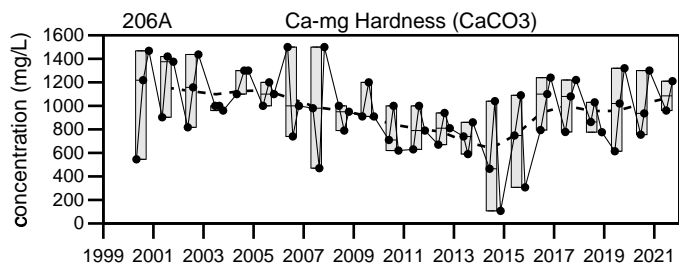
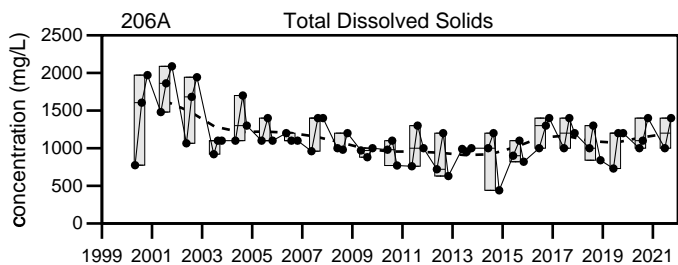
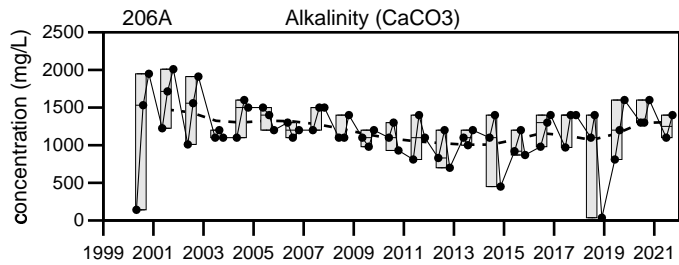
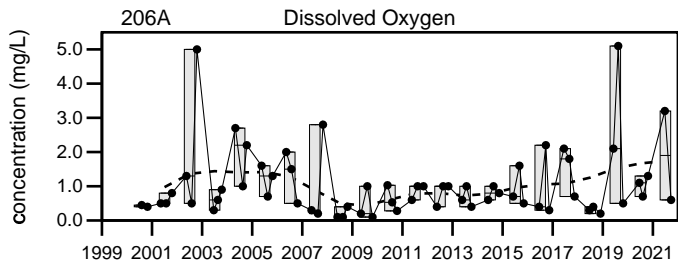
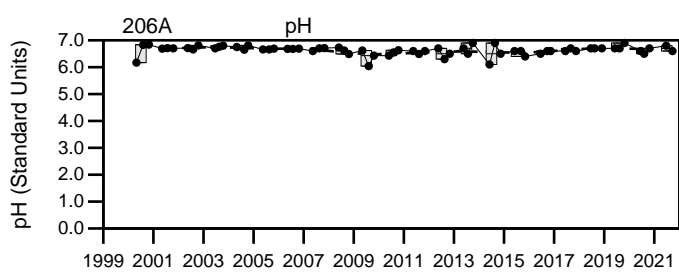
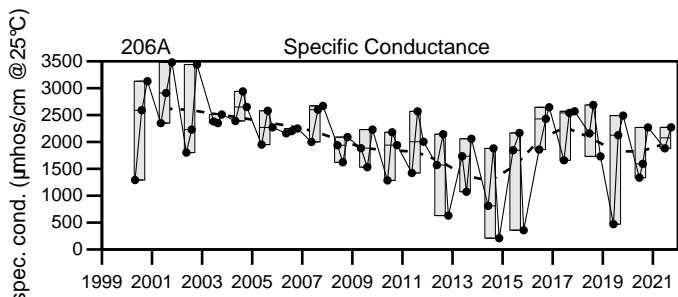
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

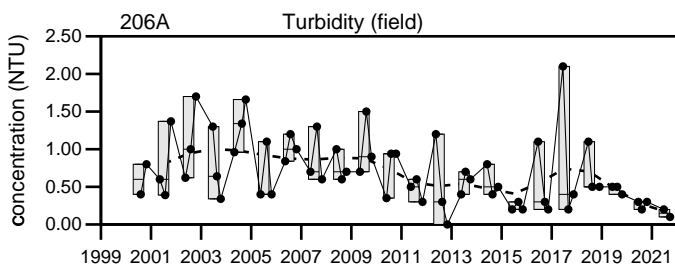
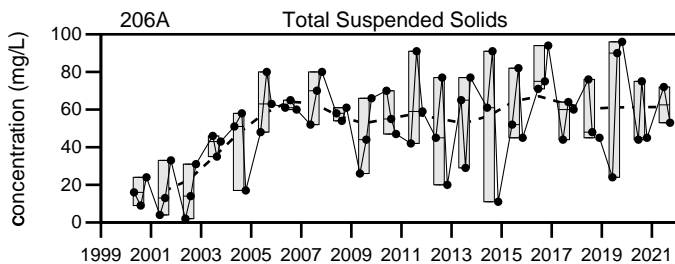
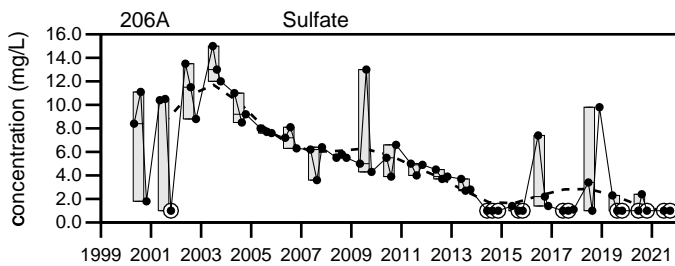
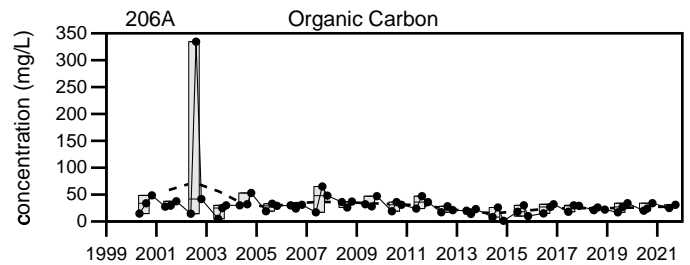
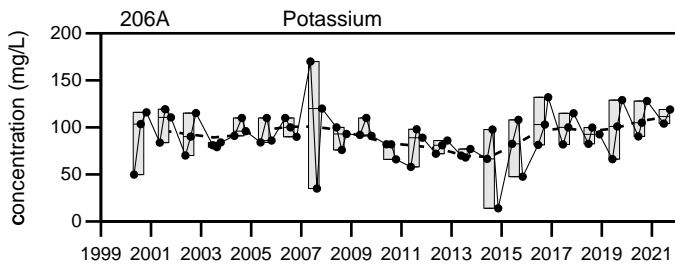
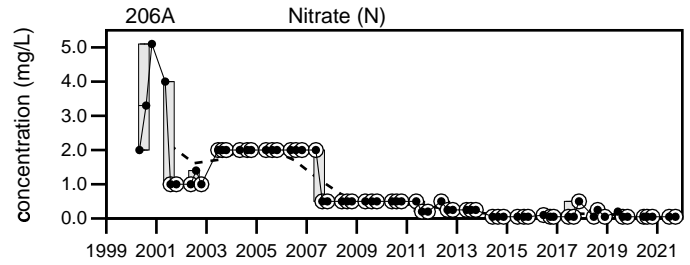
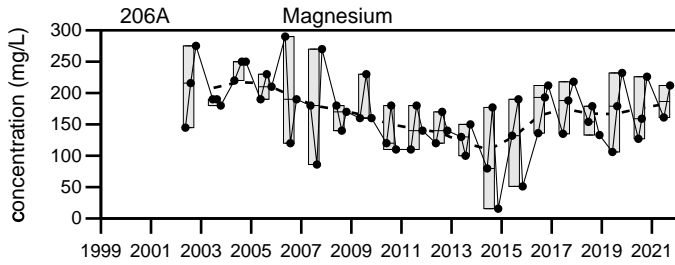
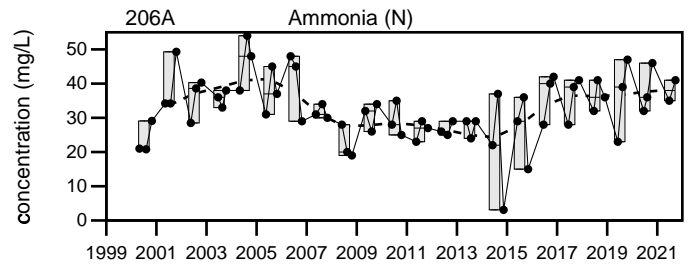
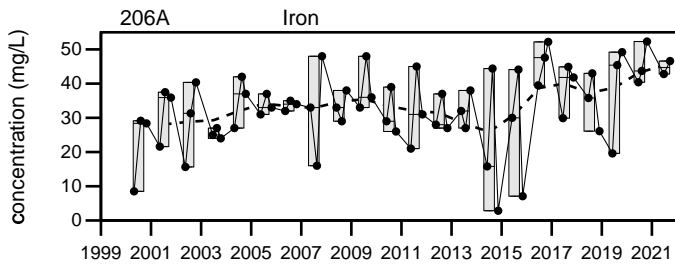


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
206A

Sevee & Maher Engineers, Inc.



LEGEND

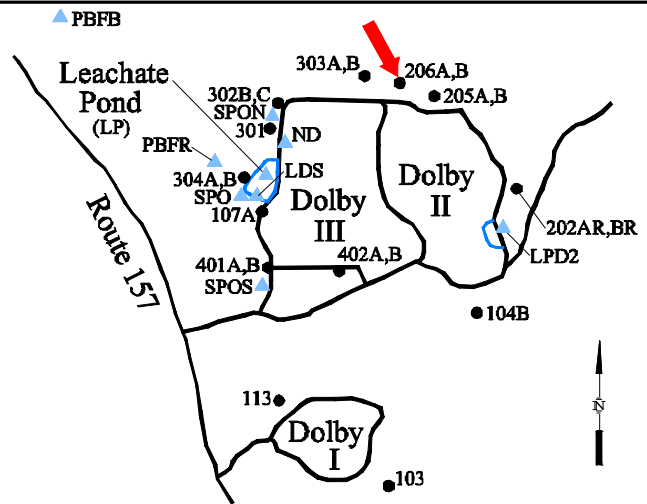
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- Sample Event
- ⊙ - BDL

Dolby Landfill
206A

Well Description

Well located downgradient to the northwest of the Dolby II Landfill.

Screen Interval: **12 ft. to 17 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-86**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		215	D		61	to 260	150 ± 8		37
Dissolved Oxygen (mg/L)		6.8	D		2	to 10.7	5.9 ± 0.38		36
Total Dissolved Solids (mg/L)		140	D		28	to 200	78 ± 5.2		37
Arsenic (mg/L)		0.008 U	D		0.0016 U	to 0.01 U	0.0061 ± 0.000		36
Calcium (mg/L)		↑20	D		6.1	to 19	14 ± 0.6		35
Manganese (mg/L)		0.135	D		0.009	to 0.194	0.036 ± 0.006		37
pH (STU)		7	D		5.26	to 7.7	6.5 ± 0.083		37
Alkalinity (CaCO3) (mg/L)		76	D		8	to 85	53 ± 3.2		37
Ca-mg Hardness (CaCO3) (mg/L)		79.6	D		22.1	to 89	57 ± 3.3		37
Bicarbonate Alkalinity (CaCO3) (mg/L)		76	D		8	to 81	52 ± 3.2		37
Sodium (mg/L)		2.21	D		1 U	to 4.4	2.3 ± 0.15		37
Chloride (mg/L)		2 U	D		0.63	to 3.8	2.2 ± 0.12		37
Iron (mg/L)		1.18	D		0.014	to 2.43	0.32 ± 0.082		37
Magnesium (mg/L)		7.18	D		1.4	to 12	6 ± 0.48		35
Potassium (mg/L)		6.22	D		3	to 7.5	4.8 ± 0.2		37
Sulfate (mg/L)		8	D		1 U	to 23	9.5 ± 0.83		37
Total Suspended Solids (mg/L)		7.6	D		0.32 U	to 22	3.8 ± 0.78		37
Turbidity (field) (NTU)		0.6	D		0	to 12.2	2.3 ± 0.42		36
Ammonia (N) (mg/L)		0.1 U	D		0.082 U	to 0.45	0.17 ± 0.013		37
Nitrate (N) (mg/L)		0.66	D		0.17	to 2 U	0.95 ± 0.11		37
Organic Carbon (mg/L)		2	D		1 U	to 5.1	2.1 ± 0.15		37

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

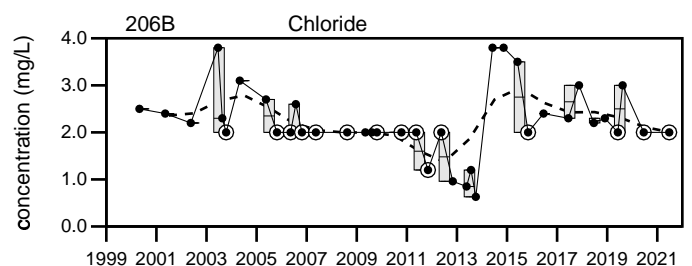
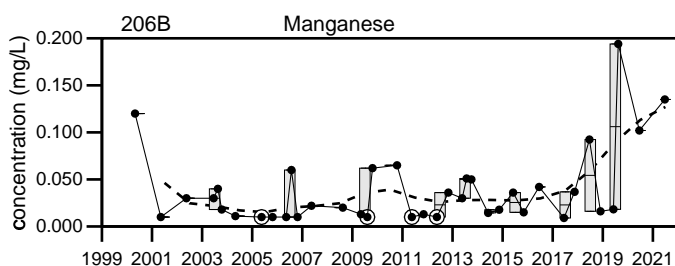
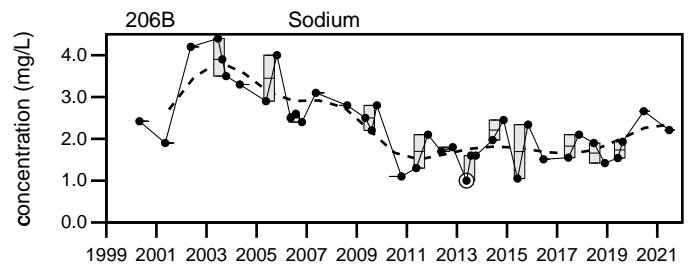
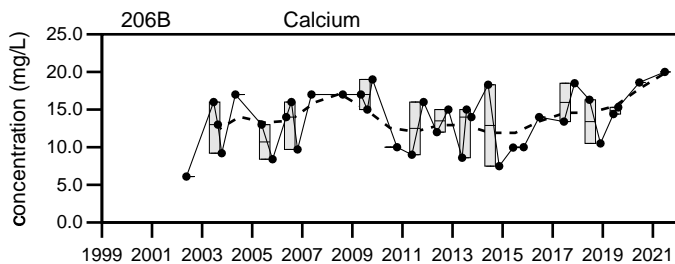
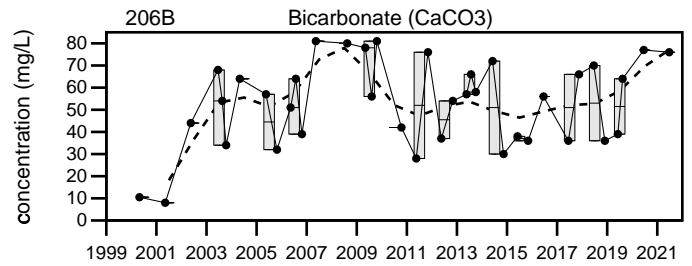
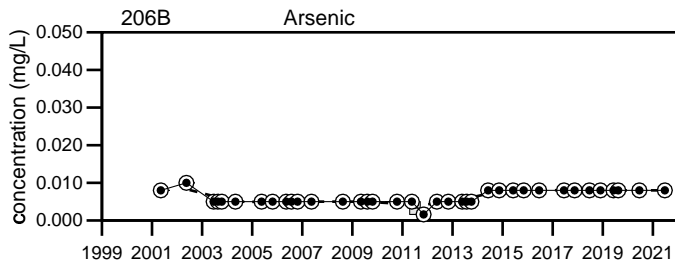
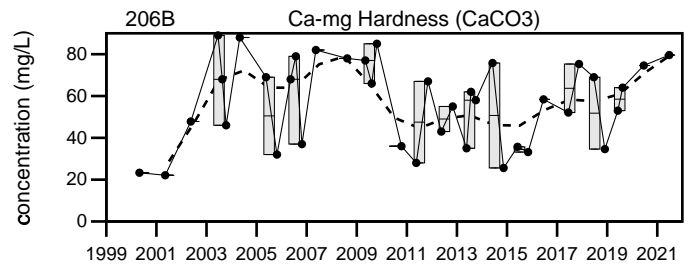
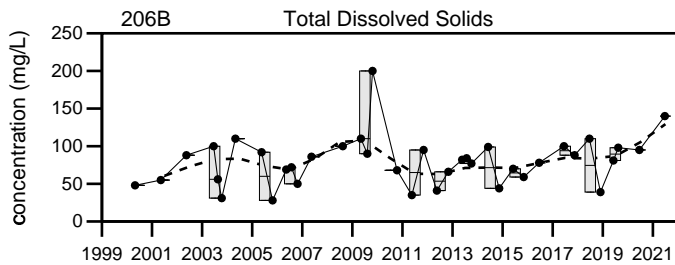
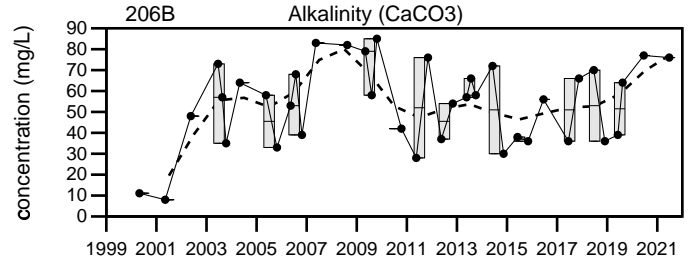
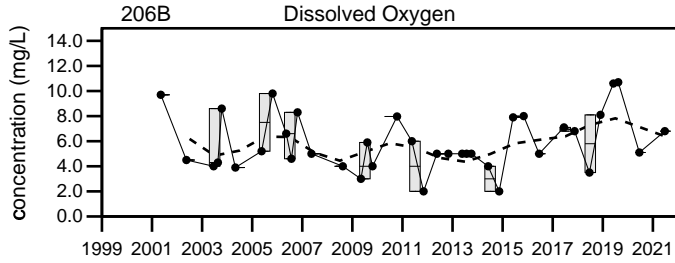
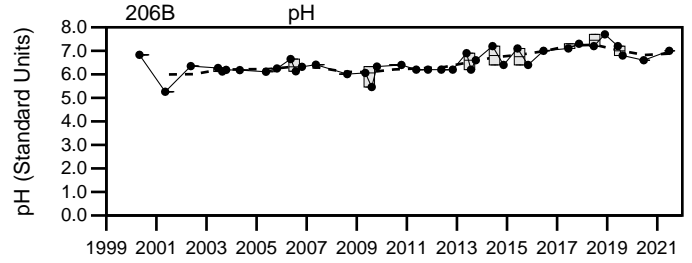
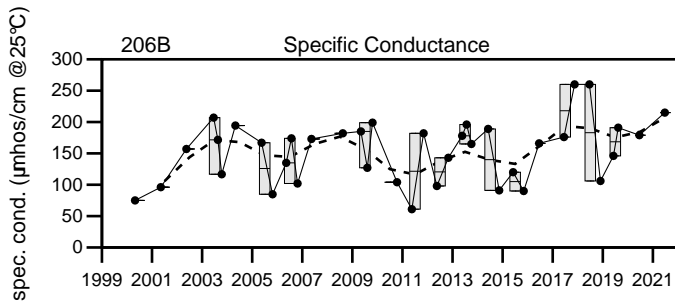
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021 D = The sampling location was dry.

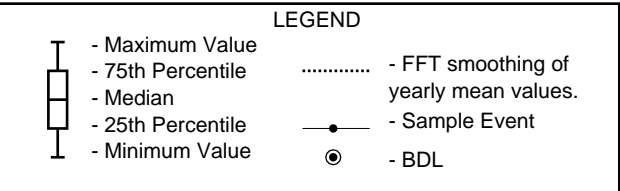
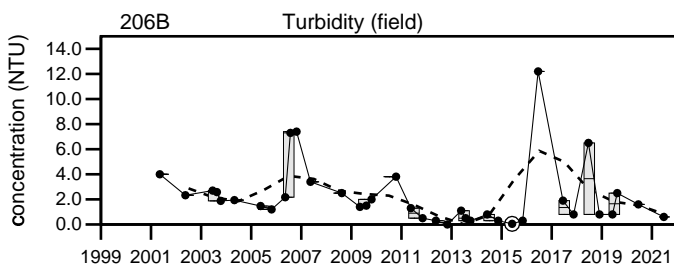
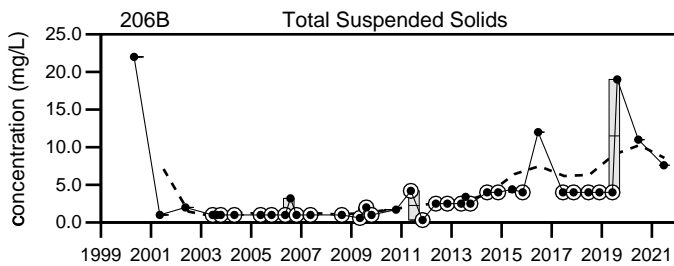
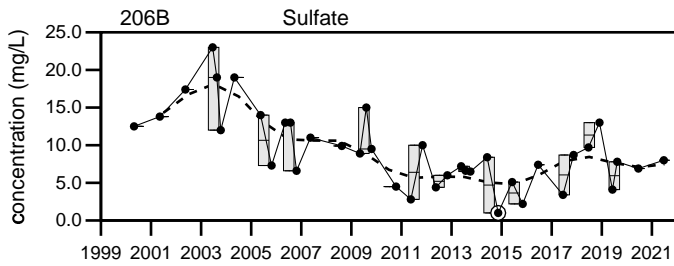
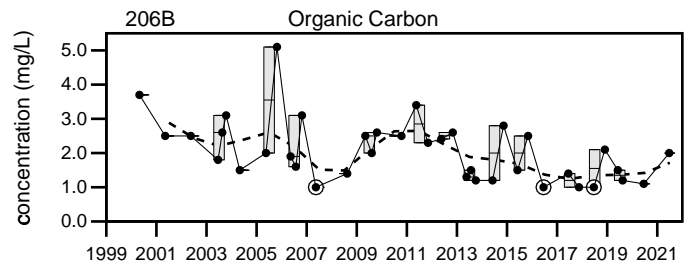
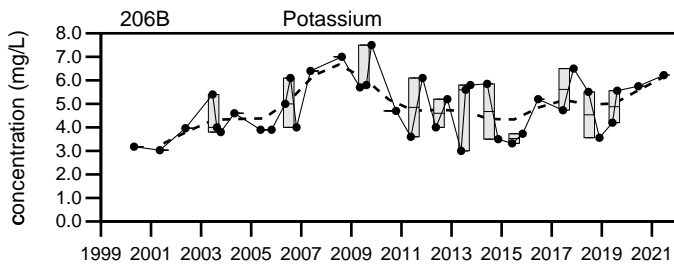
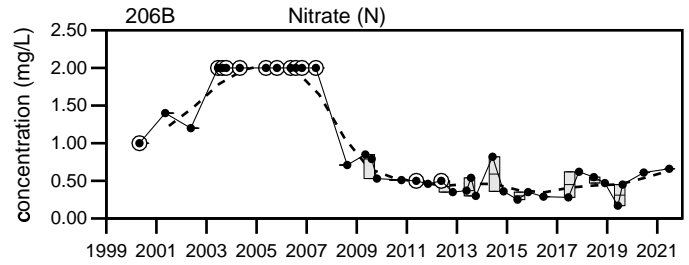
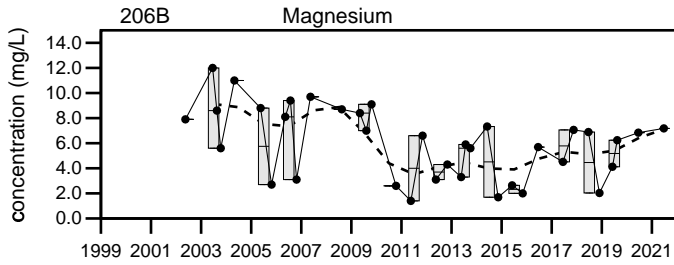
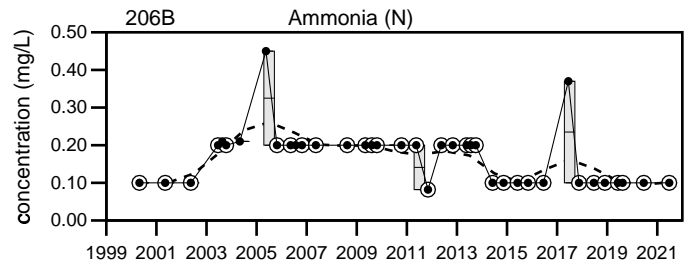
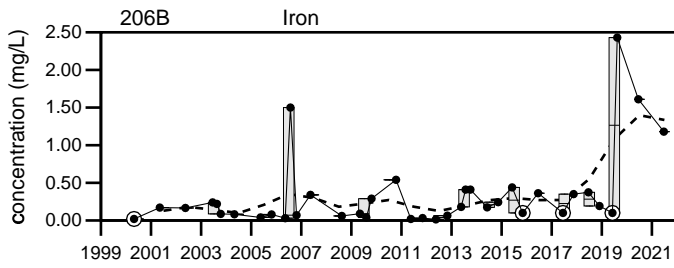


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- Sample Event
- ⊙ - BDL

Dolby Landfill
206B

Sevee & Maher Engineers, Inc.



Dolby Landfill

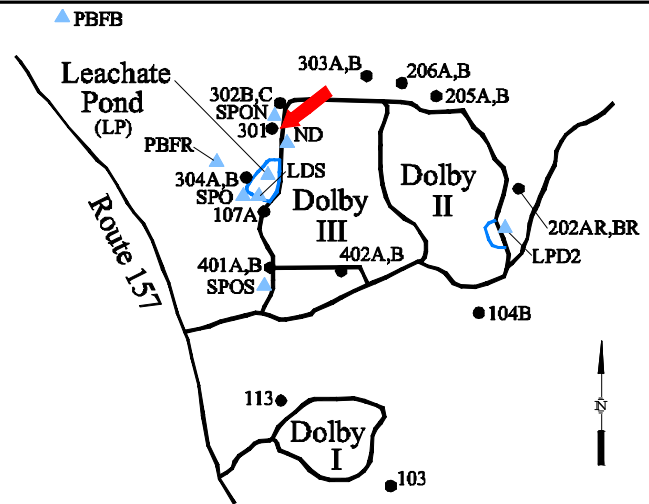
206B

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the west of Dolby III Landfill.

Screen Interval: **10 ft. to 15 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-83**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1501	1581		338	to 2156	1200 ± 68		63
Dissolved Oxygen (mg/L)		0.6	0.3		0.1	to 3.02	0.83 ± 0.094		62
Total Dissolved Solids (mg/L)		1100	1000		212	to 1300	760 ± 44		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.01 U	0.0064 ± 0.000		61
Calcium (mg/L)		259	255		41.9	to 328	220 ± 10		57
Manganese (mg/L)		0.685	0.55		0.034	to 1.2	0.61 ± 0.03		63
pH (STU)		6.5	6.6		5.9	to 7.07	6.5 ± 0.026		63
Alkalinity (CaCO3) (mg/L)		1000	1000		125.2	to 1100	600 ± 38		63
Ca-mg Hardness (CaCO3) (mg/L)		977	946		125.8	to 1080	660 ± 39		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		1000	1000		110	to 1100	590 ± 39		63
Sodium (mg/L)		77.6	77.8		5.93	to 82.3	35 ± 2.8		63
Chloride (mg/L)		53	58		28.7	to 110	67 ± 3.5		63
Iron (mg/L)		0.143	0.17		0.02 U	to 0.83	0.16 ± 0.019		63
Magnesium (mg/L)		79.9	75		9	to 79.9	37 ± 2.9		57
Potassium (mg/L)		2.92	3.12		0.98	to 5.8	2.9 ± 0.14		63
Sulfate (mg/L)		27	30		9.3	to 49	26 ± 0.98		63
Total Suspended Solids (mg/L)		4 U	4 U		0.38 U	to 41	3.1 ± 0.65		63
Turbidity (field) (NTU)		0.2	0.2		0	to 1.5	0.37 ± 0.033		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.5 U	0.15 ± 0.009		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.67 ± 0.091		63
Organic Carbon (mg/L)		15	16		1.1	to 24	9.4 ± 0.7		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

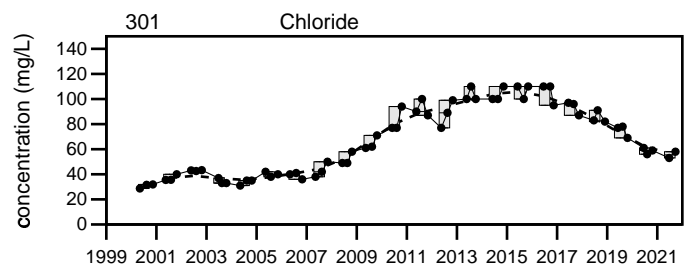
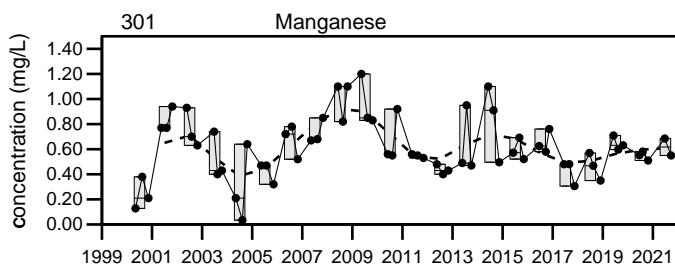
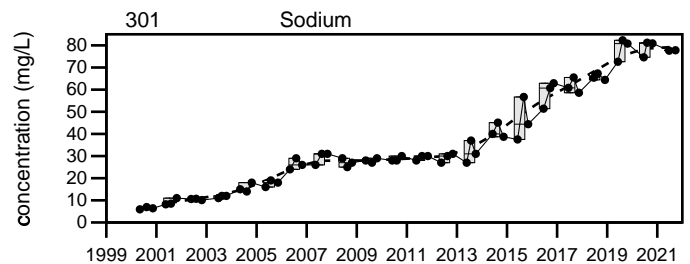
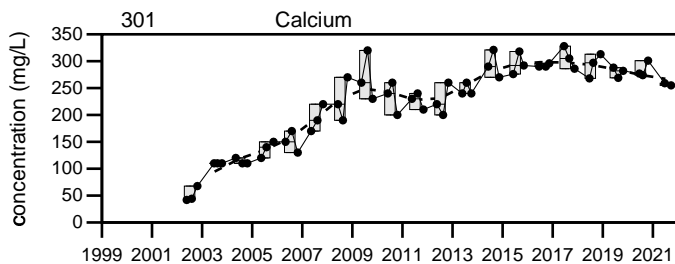
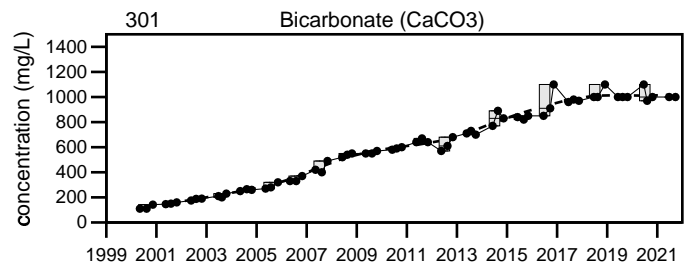
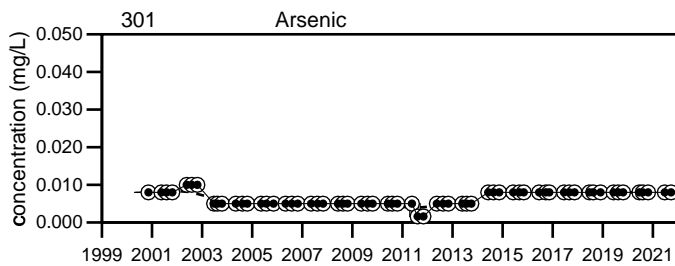
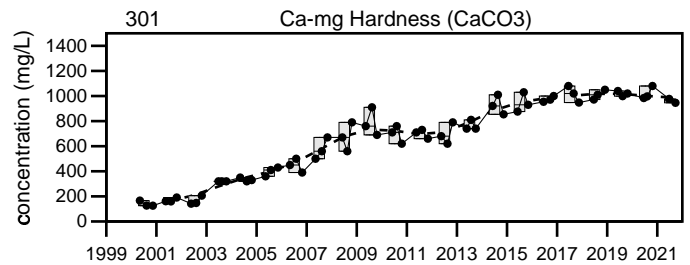
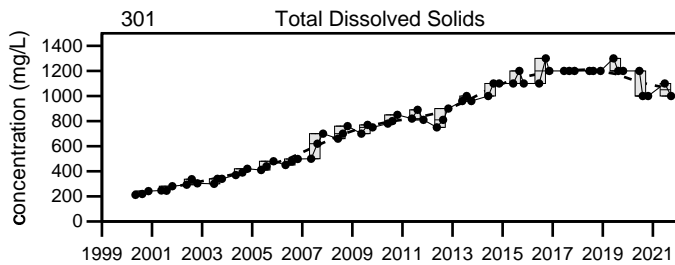
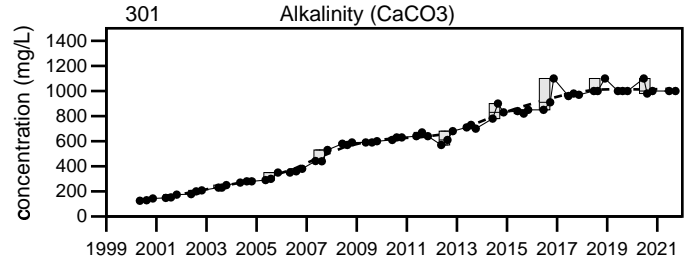
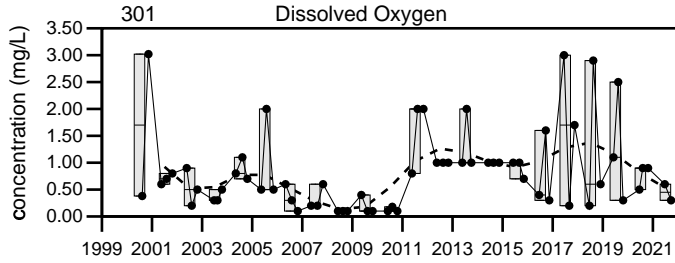
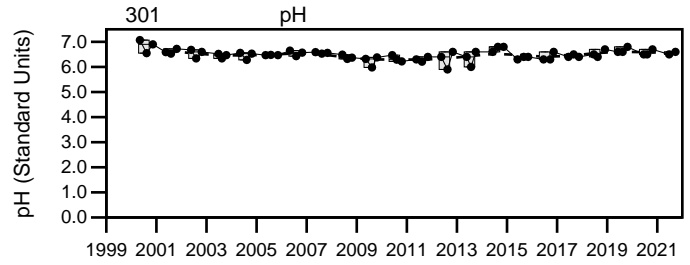
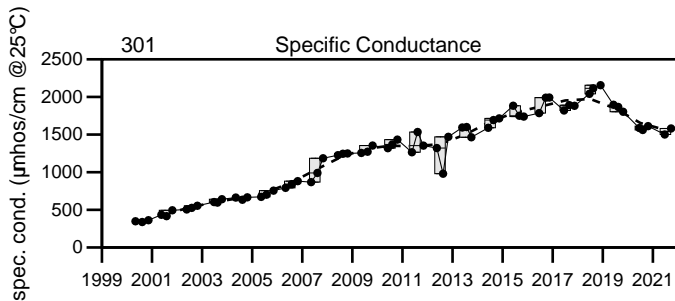
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

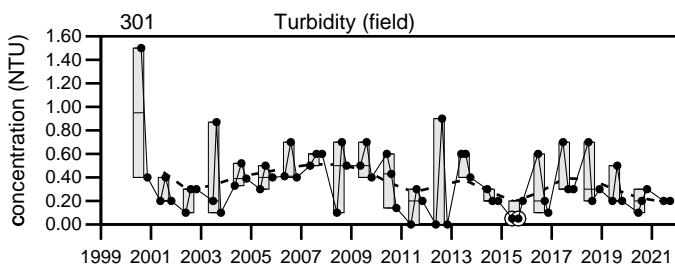
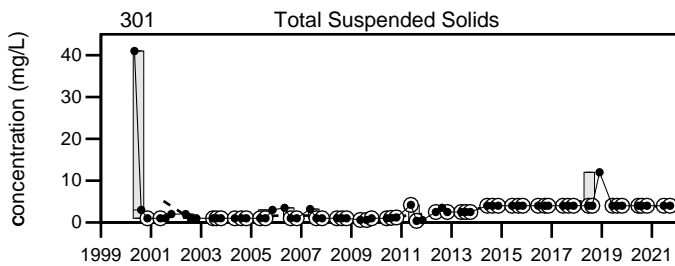
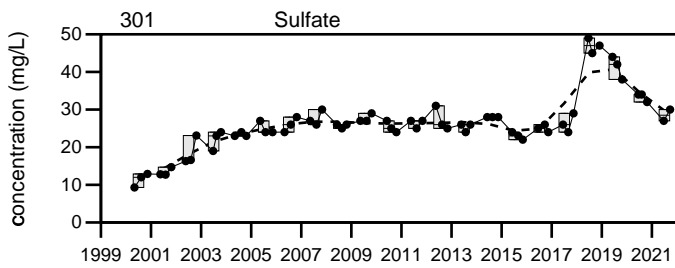
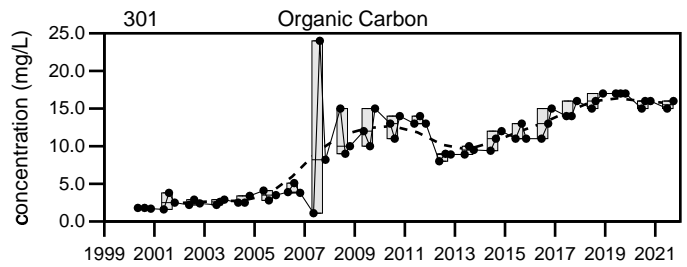
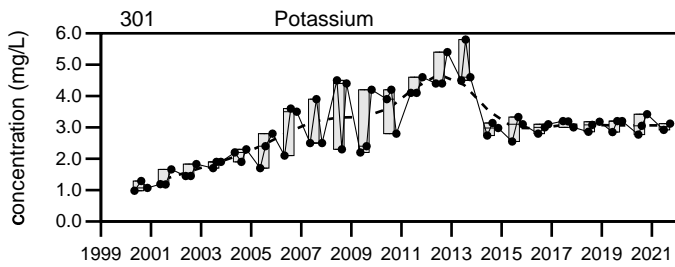
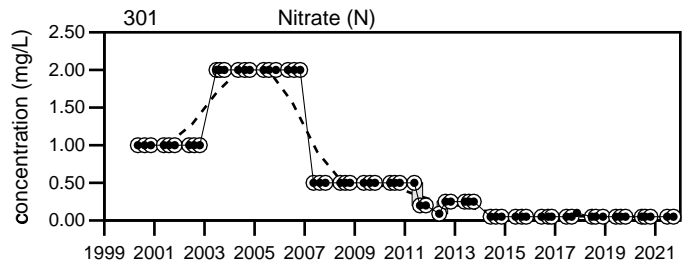
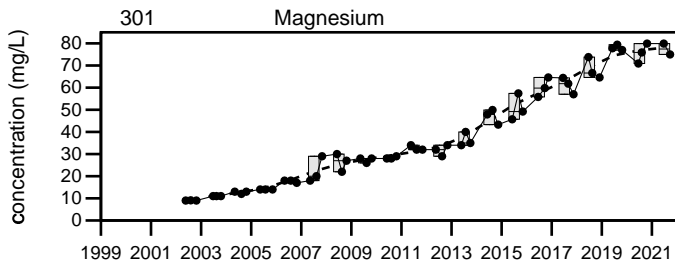
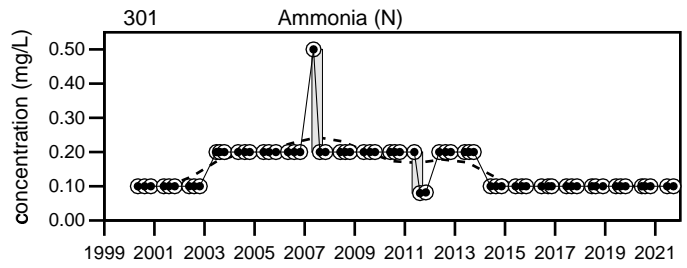
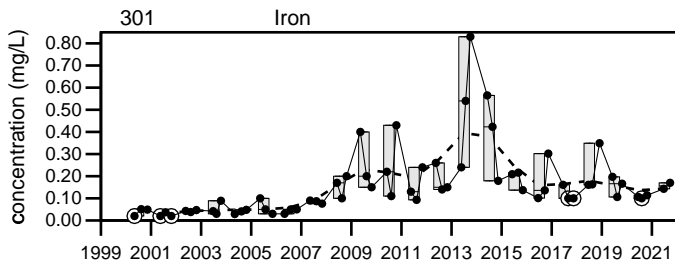
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
301



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

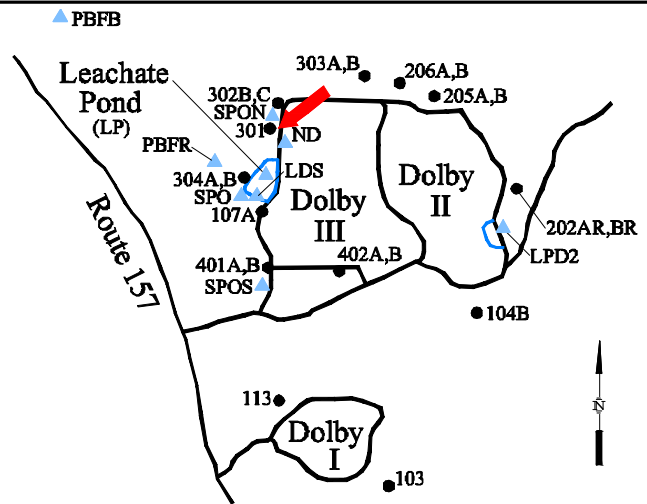
Dolby Landfill
301

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the west of Dolby III Landfill.

Screen Interval: **10 ft. to 15 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-83**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Benzene (ug/L)			3 U		3 U to 5 U		3.8 ± 0.3		12
Toluene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
Ethylbenzene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
o-Xylene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
m,p-Xylene (ug/L)			10 U		5 U to 10 U		8.8 ± 0.65		12
C11-C22 AROMATICS (ADJUSTED) (ug/L)			93 U		93 U to 380		120 ± 29		10
C19-C36 ALIPHATICS (ADJUSTED) (ug/L)			93 U		93 U to 102 U		95 ± 0.84		10
C5-C8 ALIPHATICS (ADJUSTED) (ug/L)			100 U		75 U to 100 U		94 ± 3.6		9
C9-C10 AROMATICS (ADJUSTED) (ug/L)			100 U		25 U to 100 U		83 ± 11		9
C9-C12 ALIPHATICS (ADJUSTED) (ug/L)			100 U		25 U to 100 U		83 ± 11		9
C9-C18 ALIPHATICS (ADJUSTED) (ug/L)			93 U		93 U to 102 U		95 ± 0.84		10
Methyltertiarybutylether (ug/L)			5 U		5 U to 5 U		5 ± 0		9
Naphthalene (ug/L)			5 U		4.81 U to 10 U		5.5 ± 0.5		10
Naphthalene (EPH) (ug/L)			1.9 U		1.9 U to 1.9 U		1.9 ± 1E-08		7
2-Methylnaphthalene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Acenaphthylene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Acenaphthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Fluorene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Phenanthrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(a)Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Chrysene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(b)Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(k)Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(a)Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Indeno(1,2,3-c,d)Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Dibenz(a,h)Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(g,h,i)perylene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

Acenaphthene RAGGwRs=540 ug/L, MEG16=400 ug/L, Toluene RAGGwRs=1100 ug/L, MEG16=600 ug/L, MCL=1000 ug/L, Ethylbenzene RAGGwRs=15 ug/L, MEG16=30 ug/L, MCL=700 ug/L, C11-C22 AROMATICS (ADJUSTED) RAGGwRs=600 ug/L, MEG16=200 ug/L, C19-C36 ALIPHATICS (ADJUSTED) RAGGwRs=40000 ug/L, MEG16=10000 ug/L, C5-C8 ALIPHATICS (ADJUSTED) RAGGwRs=180 ug/L, MEG16=300 ug/L, C9-C10 AROMATICS (ADJUSTED) RAGGwRs=71 ug/L, MEG16=200 ug/L, C9-C12 ALIPHATICS (ADJUSTED) RAGGwRs=350 ug/L, MEG16=700 ug/L, C9-C18 ALIPHATICS (ADJUSTED) RAGGwRs=350 ug/L, MEG16=700 ug/L, Methyltertiarybutylether RAGGwRs=140 ug/L, MEG16=35 ug/L, Naphthalene RAGGwRs=1.2 ug/L, MEG16=10 ug/L, Naphthalene (EPH)

Data Group: 183

Printed: 4/11/2022 10:44



Dolby Landfill

2021 EPH/VPH Stats

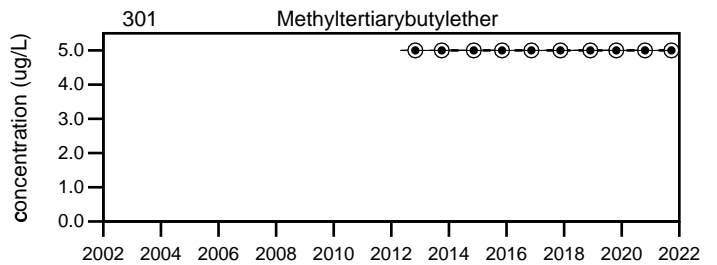
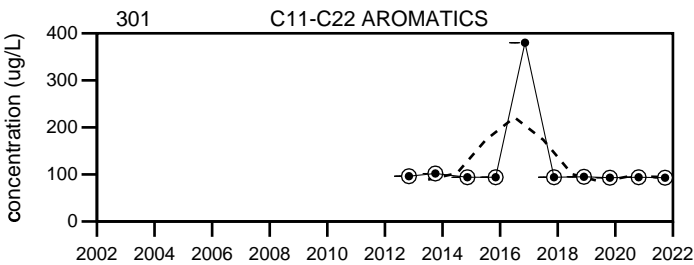
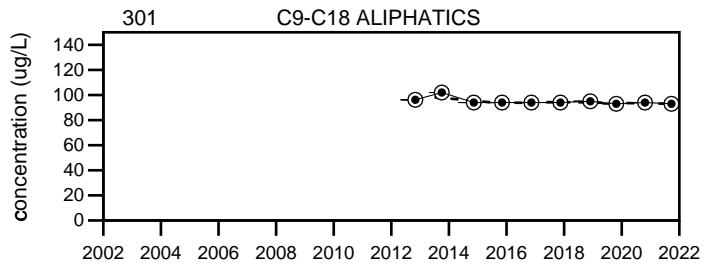
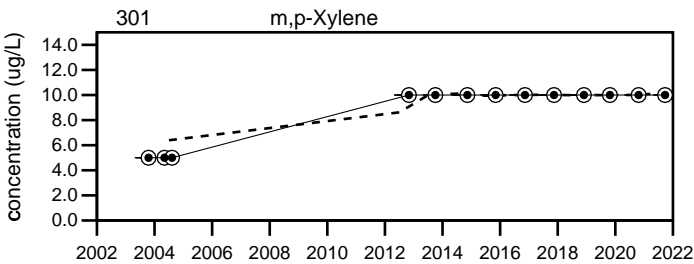
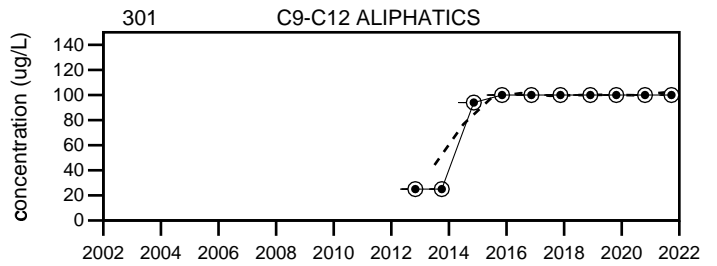
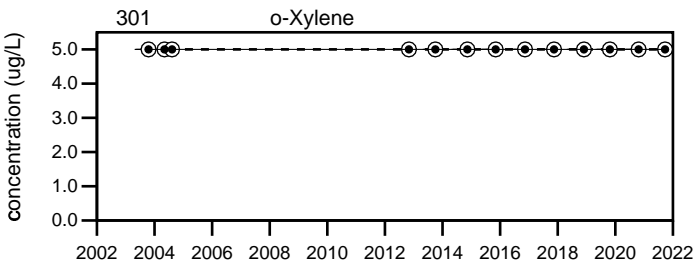
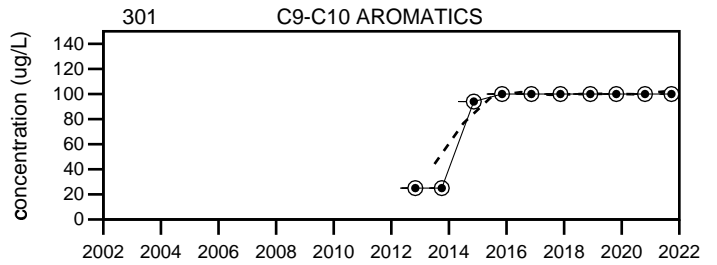
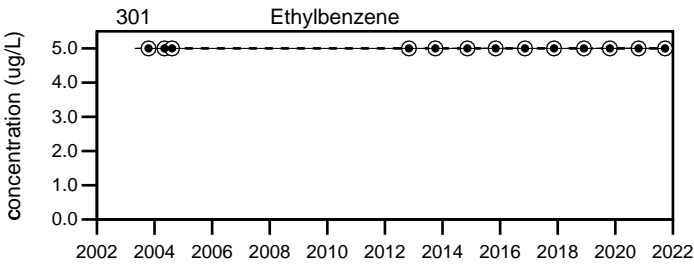
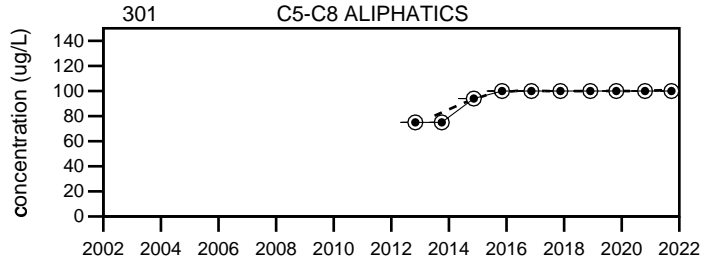
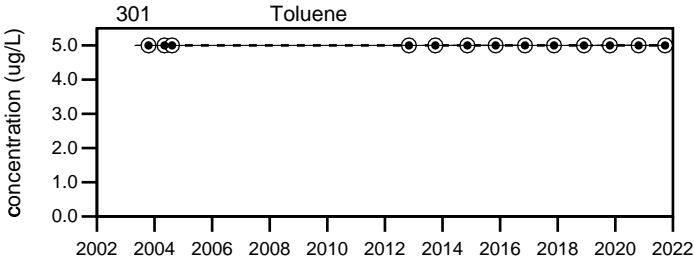
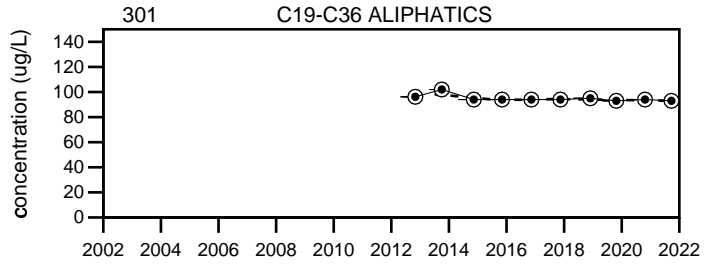
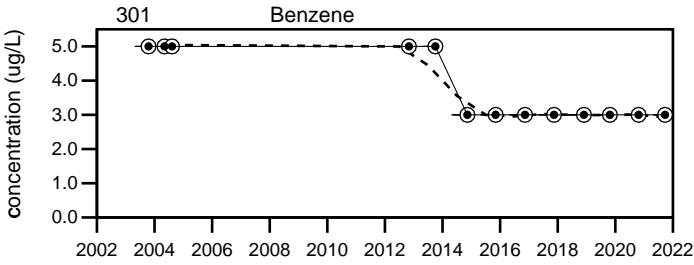
RAGGwRs=1.2 ug/L, MEG16=10 ug/L, Benzene RAGGwRs=4.6 ug/L, MEG16=4 ug/L, MCL=5 ug/L, Acenaphthylene RAGGwRs=520 ug/L, Benzo(g,h,i)perylene RAGGwRs=600 ug/L, Fluorene RAGGwRs=290 ug/L, MEG16=300 ug/L, Phenanthrene RAGGwRs=180 ug/L, Anthracene RAGGwRs=1800 ug/L, MEG16=2000 ug/L, Fluoranthene RAGGwRs=800 ug/L, MEG16=300 ug/L, Pyrene RAGGwRs=120 ug/L, MEG16=200 ug/L, Benzo(a)Anthracene RAGGwRs=0.3 ug/L, MEG16=0.5 ug/L, Chrysene RAGGwRs=250 ug/L, MEG16=50 ug/L, Benzo(b)Fluoranthene RAGGwRs=2.5 ug/L, MEG16=0.5 ug/L, Benzo(k)Fluoranthene RAGGwRs=25 ug/L, MEG16=5 ug/L, Benzo(a)Pyrene RAGGwRs=0.25 ug/L, MEG16=0.05 ug/L, MCL=0.2 ug/L, Indeno(1,2,3-c,d)Pyrene RAGGwRs=2.5 ug/L, MEG16=0.5 ug/L, Dibenz(a,h)Anthracene RAGGwRs=0.25 ug/L, MEG16=0.05 ug/L, 2-Methylnaphthalene RAGGwRs=36 ug/L, MEG16=30 ug/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

Q3= 9 - 2021

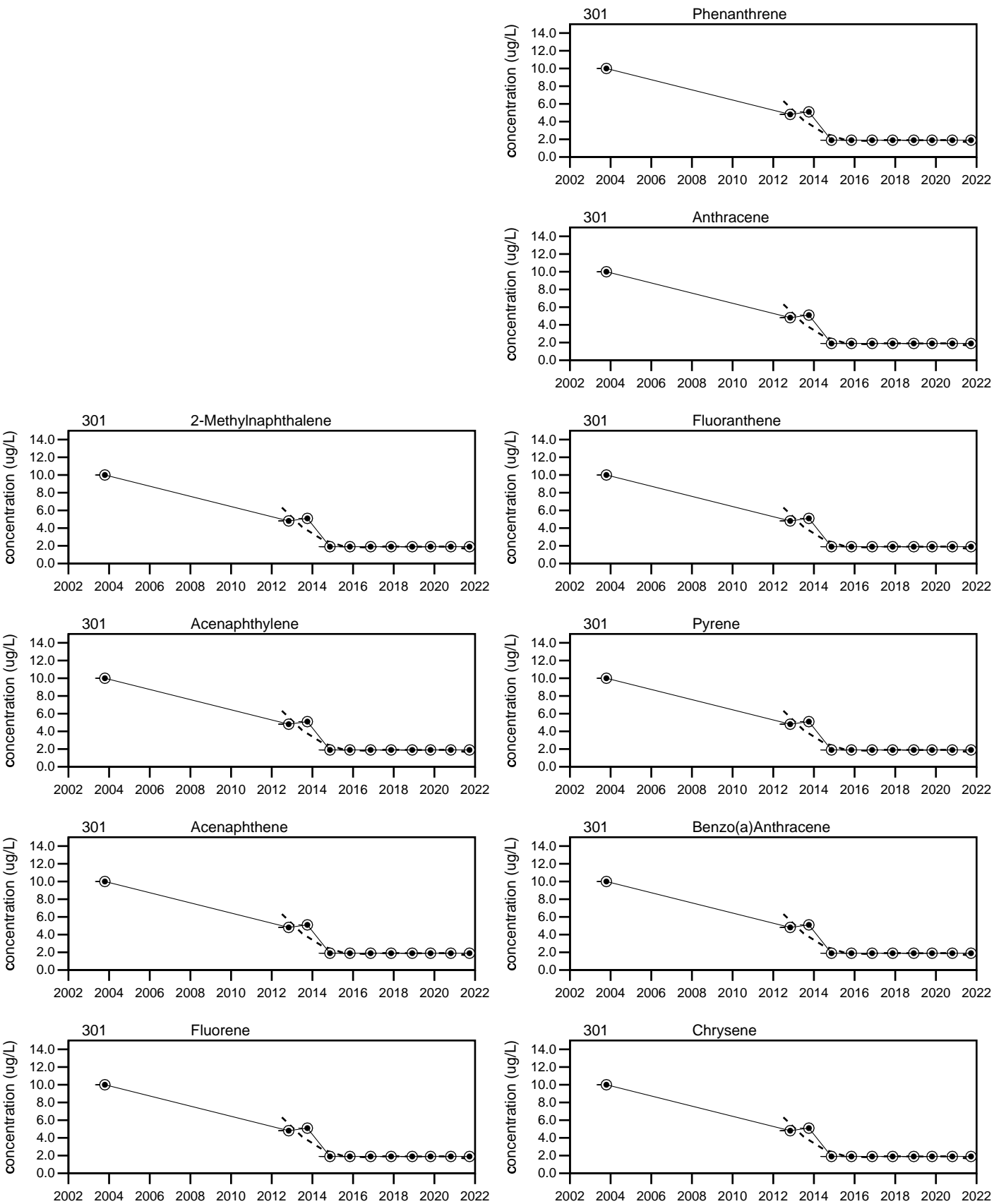


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
301

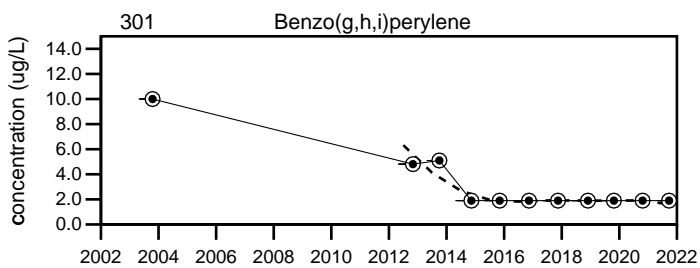
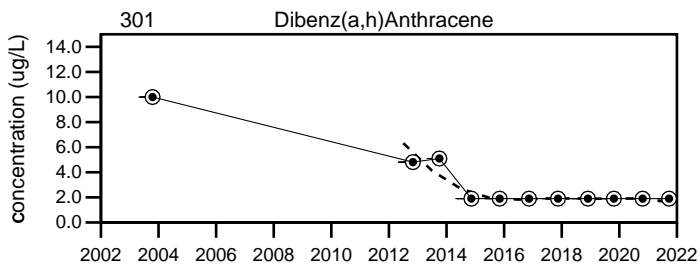
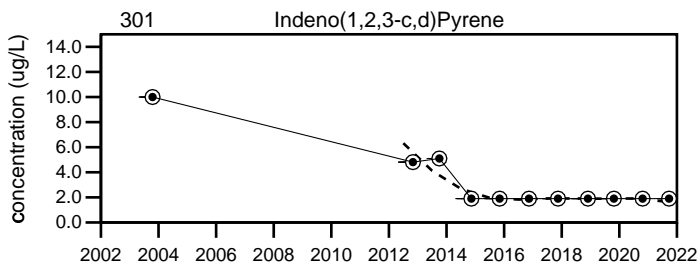
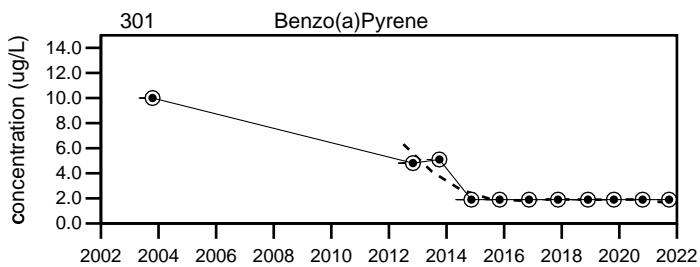
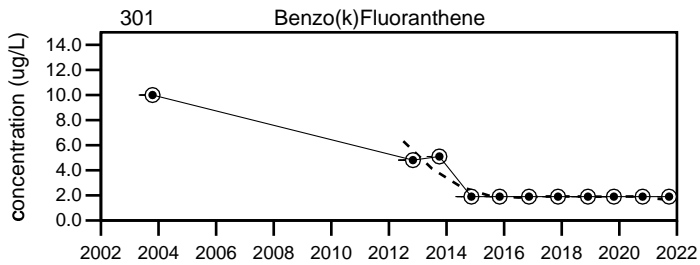
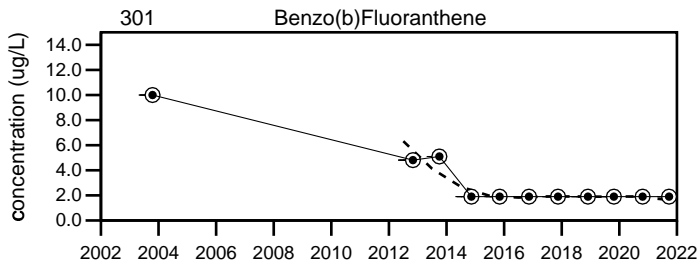
Sevee & Maher Engineers, Inc.



Dolby Landfill
301

LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL



LEGEND

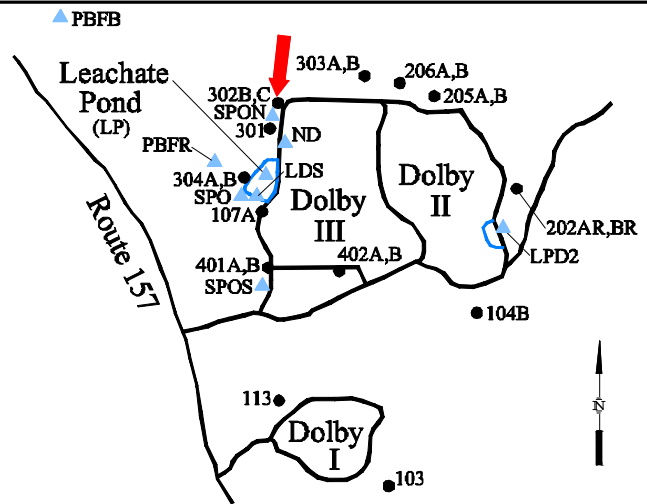
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
301

Well Description

Well located downgradient to the northwest of Dolby III Landfill.

Screen Interval: **18.8 ft. to 23.8 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-83**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1574	1582		121	to 1709	1100 ± 46		63
Dissolved Oxygen (mg/L)		0.7	0.9		0.1	to 12.5	1.2 ± 0.22		62
Total Dissolved Solids (mg/L)		1100	1100		224	to 1100	720 ± 28		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.04 U	0.0071 ± 0.000		61
Calcium (mg/L)		244	254		82.2	to 610	200 ± 9		57
Manganese (mg/L)		38.4	38.4		1.118	to 89.5	17 ± 1.8		63
pH (STU)		6.5	6.5		5.77	to 8.9	6.4 ± 0.052		63
Alkalinity (CaCO3) (mg/L)		940	↑980		88.9	to 940	560 ± 27		63
Ca-mg Hardness (CaCO3) (mg/L)		891	908		143.9	to 2160	590 ± 35		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		940	↑980		81	to 940	540 ± 28		63
Sodium (mg/L)		64.3	69.7		6.5	to 152	36 ± 2.7		63
Chloride (mg/L)		67	73		38	to 82	58 ± 1.6		63
Iron (mg/L)		0.1 U	0.1 U		0.01 U	to 0.5 U	0.07 ± 0.01		63
Magnesium (mg/L)		68.7	66.6		7.3	to 156	34 ± 3		57
Potassium (mg/L)		5.8	7		1.16	to 12.4	2.9 ± 0.2		63
Sulfate (mg/L)		1 U	1 U		1 U	to 78	26 ± 2.3		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U	to 9	2.4 ± 0.22		63
Turbidity (field) (NTU)		0.4	0.8		0	to 1.8	0.4 ± 0.034		62
Ammonia (N) (mg/L)		0.96	1.1		0.08 U	to 1.1	0.29 ± 0.031		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.69 ± 0.09		63
Organic Carbon (mg/L)		28	28		3.1	to 34	18 ± 0.9		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

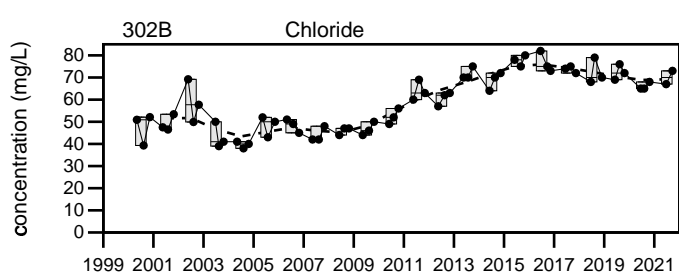
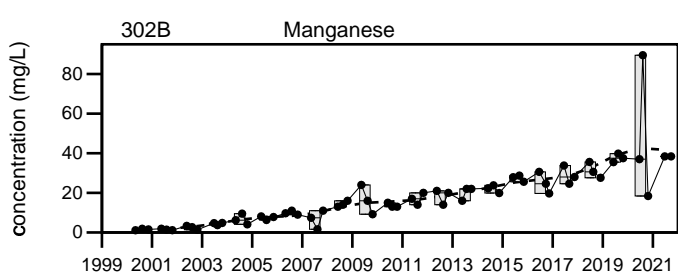
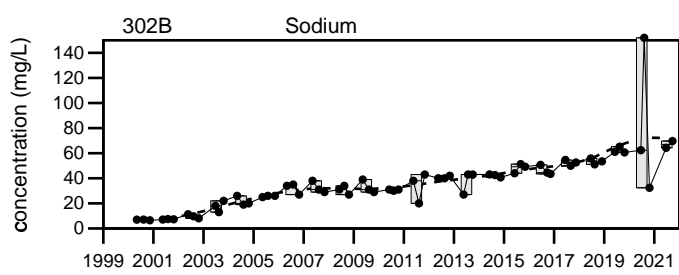
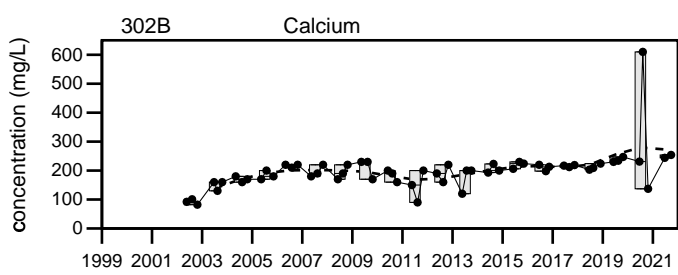
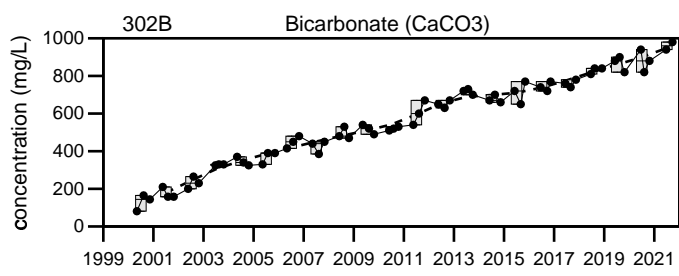
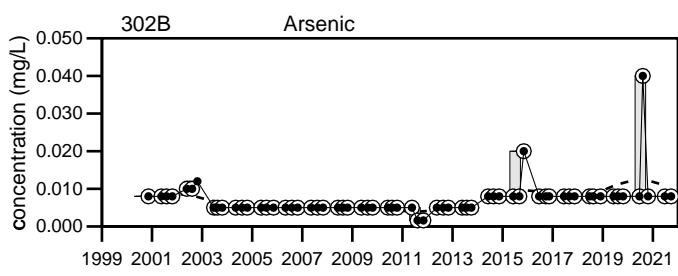
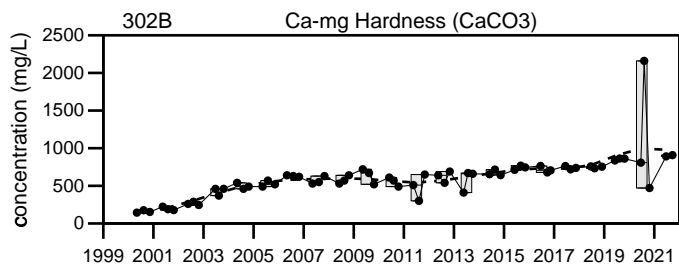
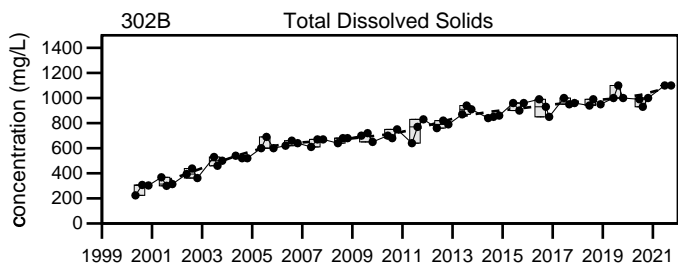
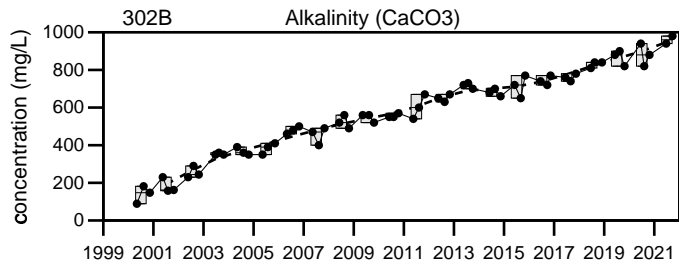
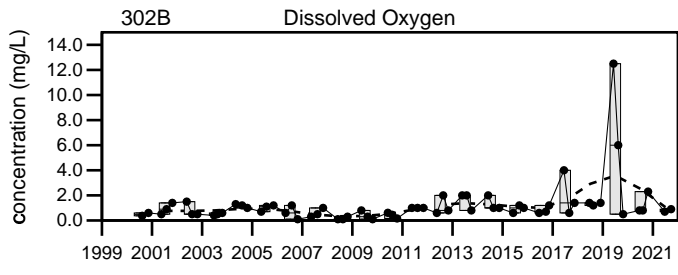
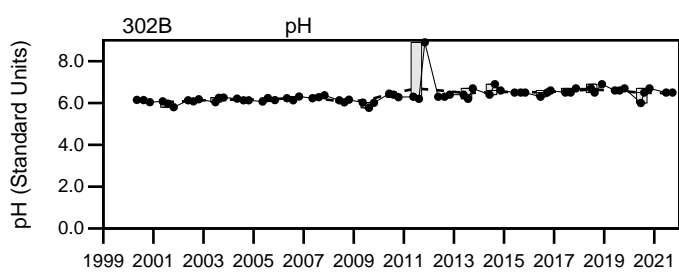
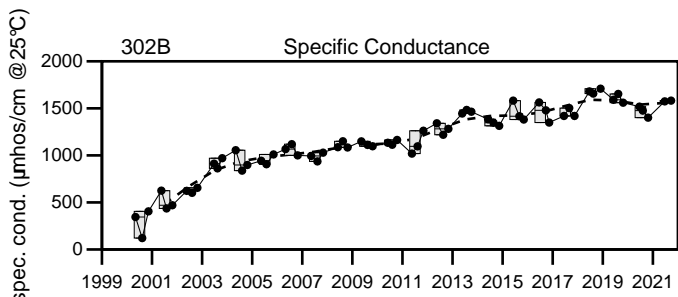
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

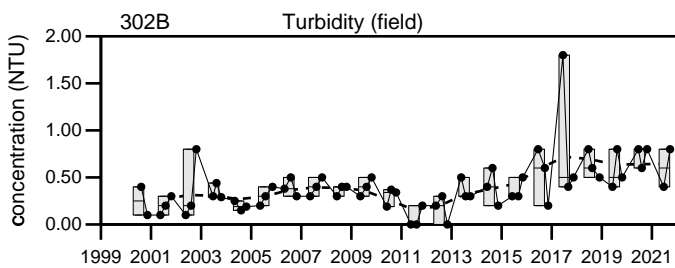
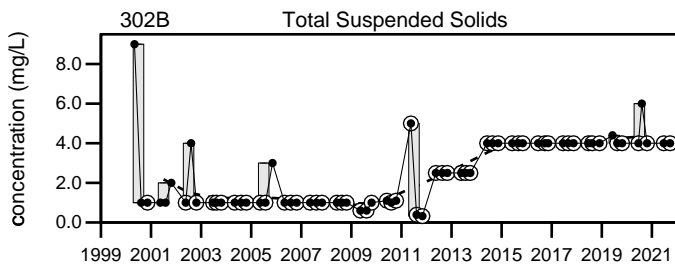
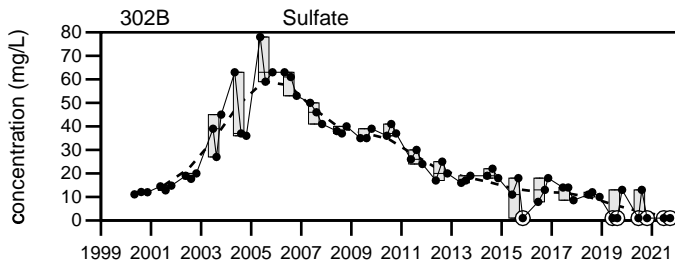
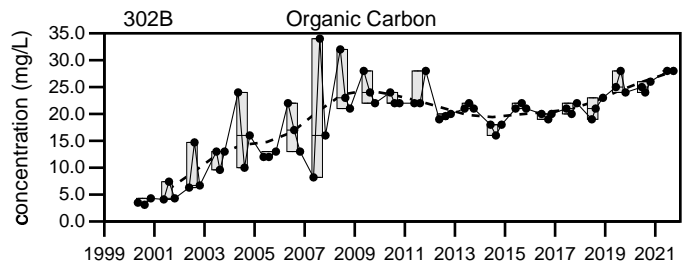
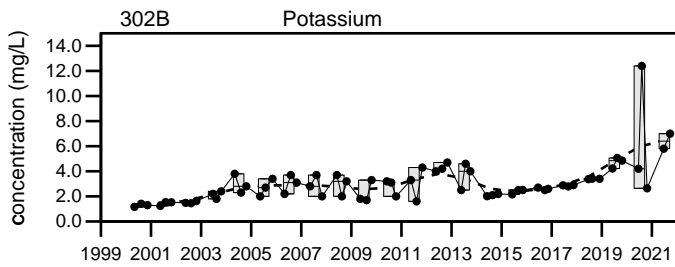
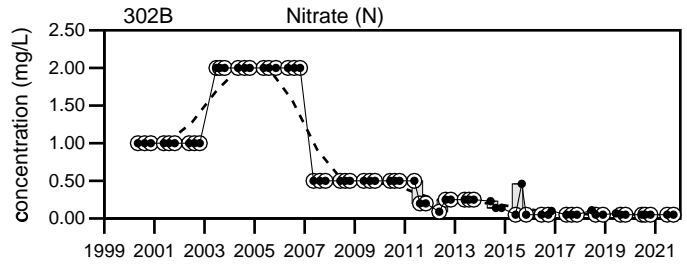
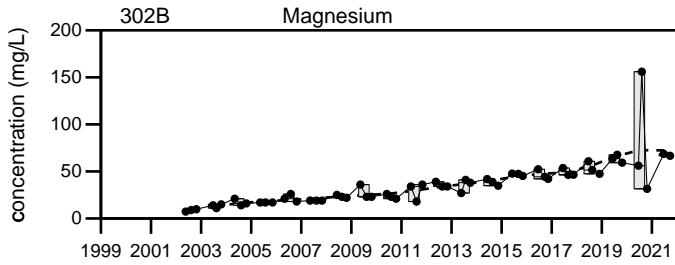
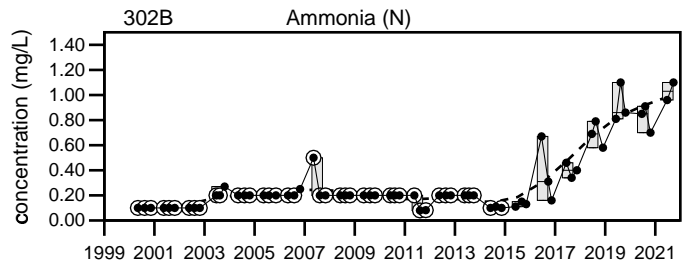
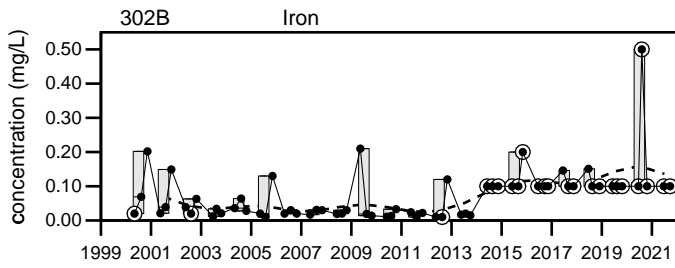


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
302B

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

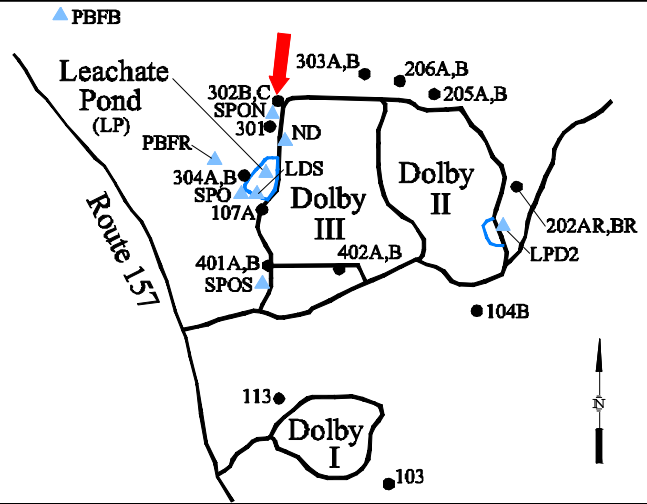
Dolby Landfill
302B

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the northwest of Dolby III Landfill.

Screen Interval: **18.8 ft. to 23.8 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-83**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Benzene (ug/L)			3 U		3 U to 5 U		3.8 ± 0.3		12
Toluene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
Ethylbenzene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
o-Xylene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
m,p-Xylene (ug/L)			10 U		5 U to 10 U		8.8 ± 0.65		12
C11-C22 AROMATICS (ADJUSTED) (ug/L)			94 U		94 U to 101 U		95 ± 0.7		10
C19-C36 ALIPHATICS (ADJUSTED) (ug/L)			94 U		94 U to 101 U		95 ± 0.7		10
C5-C8 ALIPHATICS (ADJUSTED) (ug/L)			100 U		75 U to 100 U		94 ± 3.6		9
C9-C10 AROMATICS (ADJUSTED) (ug/L)			100 U		25 U to 100 U		83 ± 11		9
C9-C12 ALIPHATICS (ADJUSTED) (ug/L)			100 U		25 U to 100 U		83 ± 11		9
C9-C18 ALIPHATICS (ADJUSTED) (ug/L)			94 U		94 U to 101 U		95 ± 0.7		10
Methyltertiarybutylether (ug/L)			5 U		5 U to 5 U		5 ± 0		9
Naphthalene (ug/L)			5 U		4.81 U to 10 U		5.5 ± 0.5		10
Naphthalene (EPH) (ug/L)			1.9 U		1.9 U to 1.9 U		1.9 ± 1E-08		7
2-Methylnaphthalene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Acenaphthylene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Acenaphthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Fluorene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Phenanthrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(a)Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Chrysene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(b)Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(k)Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(a)Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Indeno(1,2,3-c,d)Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Dibenz(a,h)Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(g,h,i)perylene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

Acenaphthene RAGGwRs=540 ug/L, MEG16=400 ug/L, Toluene RAGGwRs=1100 ug/L, MEG16=600 ug/L, MCL=1000 ug/L, Ethylbenzene RAGGwRs=15 ug/L, MEG16=30 ug/L, MCL=700 ug/L, C11-C22 AROMATICS (ADJUSTED) RAGGwRs=600 ug/L, MEG16=200 ug/L, C19-C36 ALIPHATICS (ADJUSTED) RAGGwRs=40000 ug/L, MEG16=10000 ug/L, C5-C8 ALIPHATICS (ADJUSTED) RAGGwRs=180 ug/L, MEG16=300 ug/L, C9-C10 AROMATICS (ADJUSTED) RAGGwRs=71 ug/L, MEG16=200 ug/L, C9-C12 ALIPHATICS (ADJUSTED) RAGGwRs=350 ug/L, MEG16=700 ug/L, C9-C18 ALIPHATICS (ADJUSTED) RAGGwRs=350 ug/L, MEG16=700 ug/L, Methyltertiarybutylether RAGGwRs=140 ug/L, MEG16=35 ug/L, Naphthalene RAGGwRs=1.2 ug/L, MEG16=10 ug/L, Naphthalene (EPH)

Data Group: 183

Printed: 4/11/2022 10:44



Dolby Landfill

2021 EPH/VPH Stats

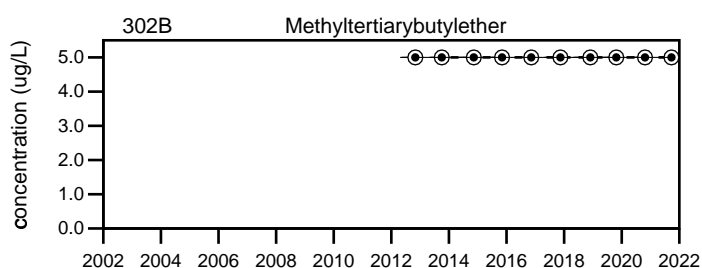
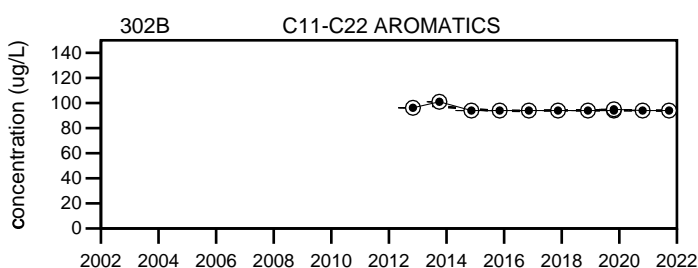
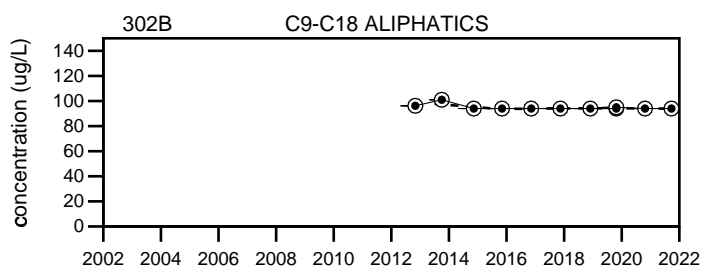
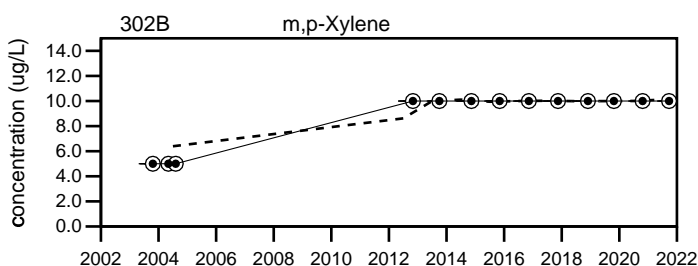
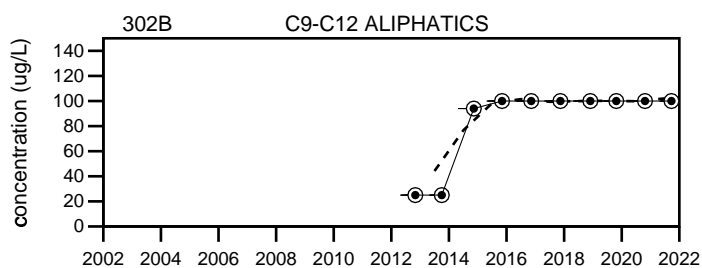
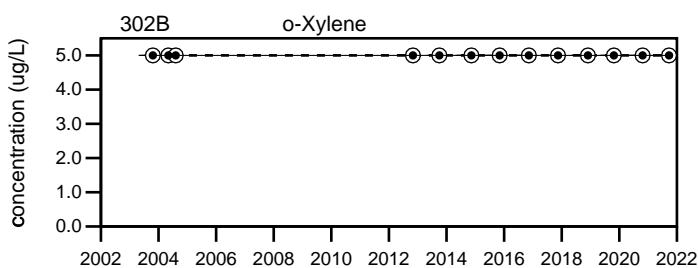
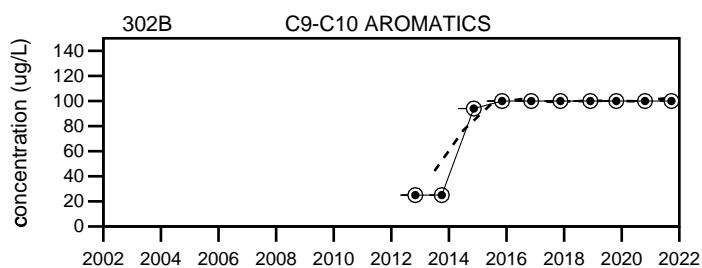
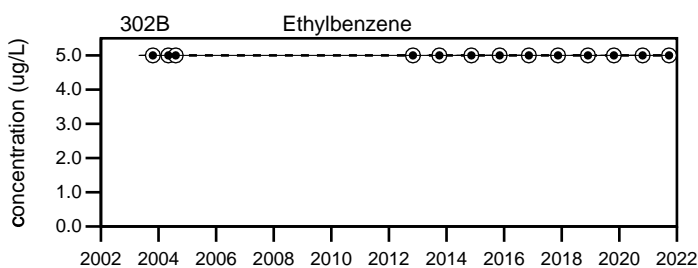
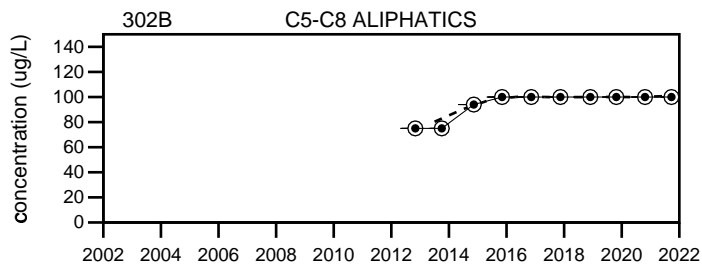
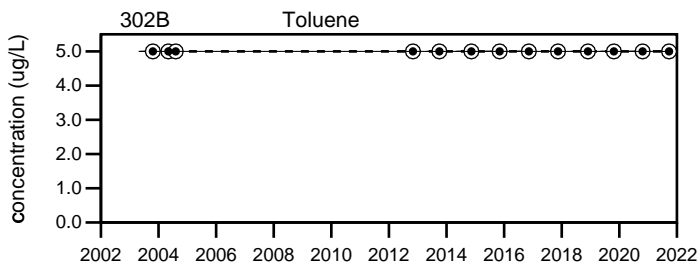
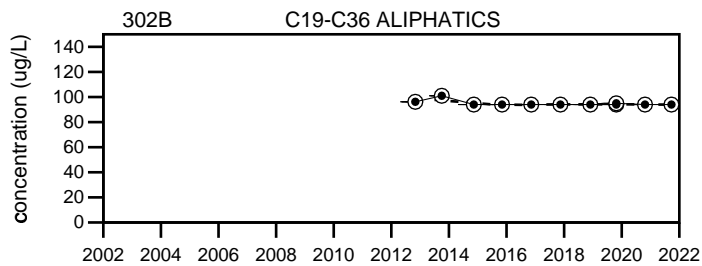
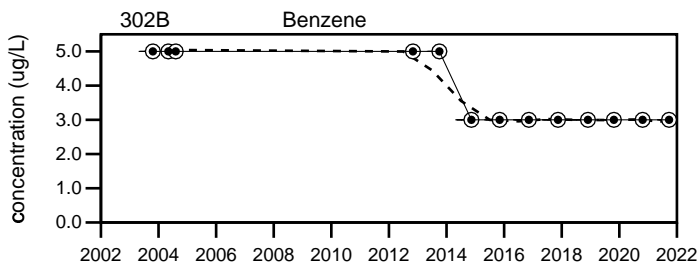
RAGGwRs=1.2 ug/L, MEG16=10 ug/L, Benzene RAGGwRs=4.6 ug/L, MEG16=4 ug/L, MCL=5 ug/L, Acenaphthylene RAGGwRs=520 ug/L, Benzo(g,h,i)perylene RAGGwRs=600 ug/L, Fluorene RAGGwRs=290 ug/L, MEG16=300 ug/L, Phenanthrene RAGGwRs=180 ug/L, Anthracene RAGGwRs=1800 ug/L, MEG16=2000 ug/L, Fluoranthene RAGGwRs=800 ug/L, MEG16=300 ug/L, Pyrene RAGGwRs=120 ug/L, MEG16=200 ug/L, Benzo(a)Anthracene RAGGwRs=0.3 ug/L, MEG16=0.5 ug/L, Chrysene RAGGwRs=250 ug/L, MEG16=50 ug/L, Benzo(b)Fluoranthene RAGGwRs=2.5 ug/L, MEG16=0.5 ug/L, Benzo(k)Fluoranthene RAGGwRs=25 ug/L, MEG16=5 ug/L, Benzo(a)Pyrene RAGGwRs=0.25 ug/L, MEG16=0.05 ug/L, MCL=0.2 ug/L, Indeno(1,2,3-c,d)Pyrene RAGGwRs=2.5 ug/L, MEG16=0.5 ug/L, Dibenz(a,h)Anthracene RAGGwRs=0.25 ug/L, MEG16=0.05 ug/L, 2-Methylnaphthalene RAGGwRs=36 ug/L, MEG16=30 ug/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

Q3= 9 - 2021

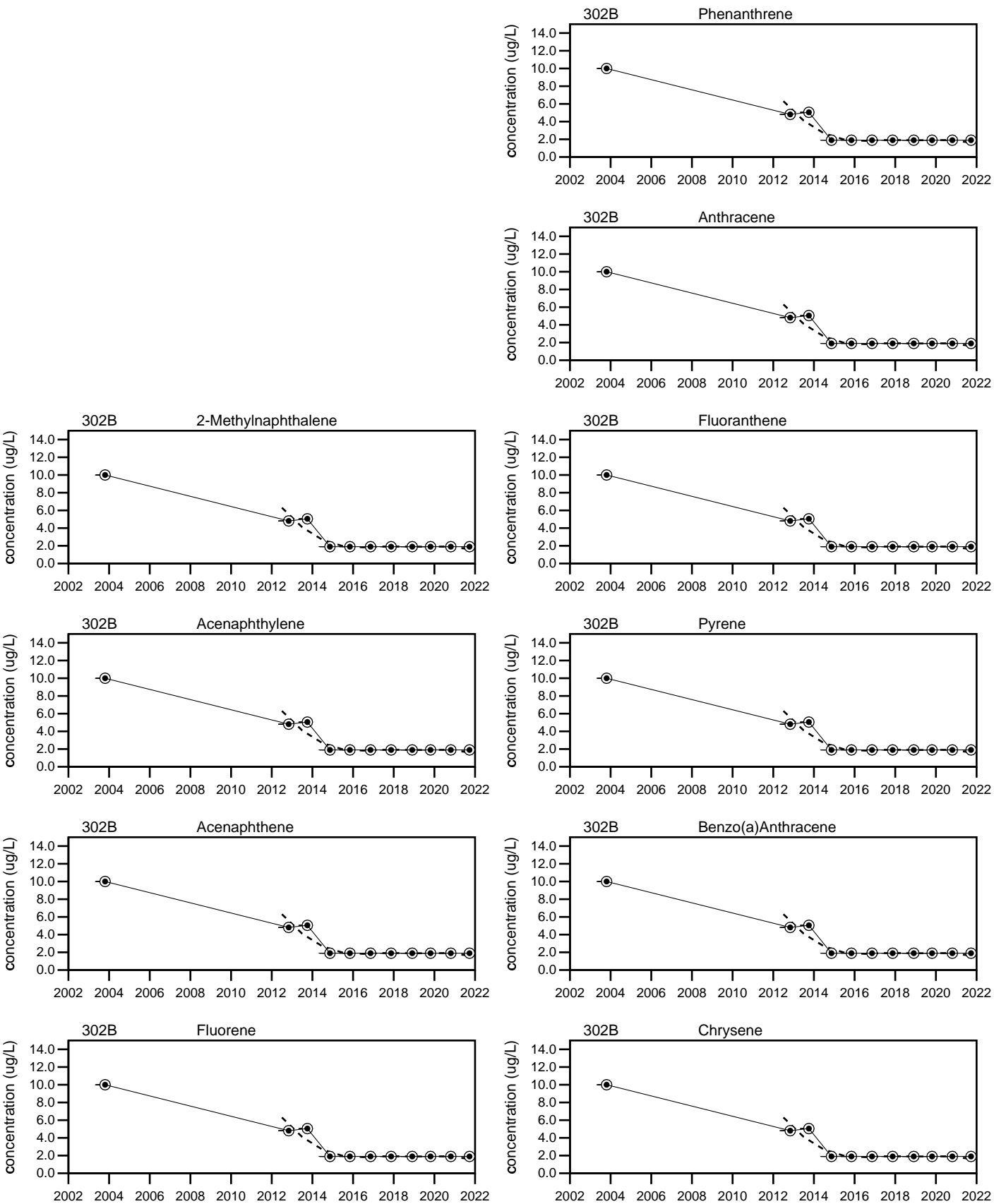


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
302B

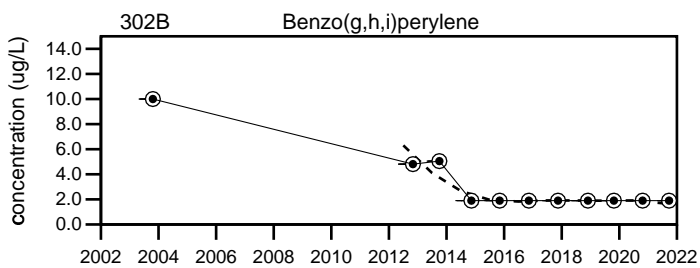
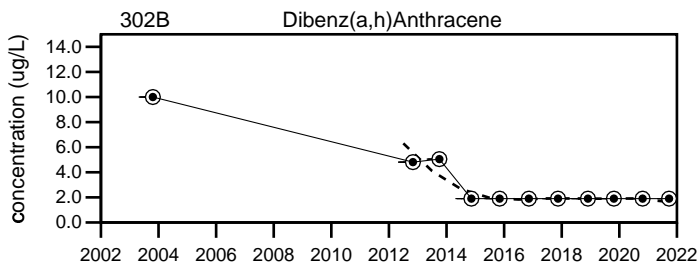
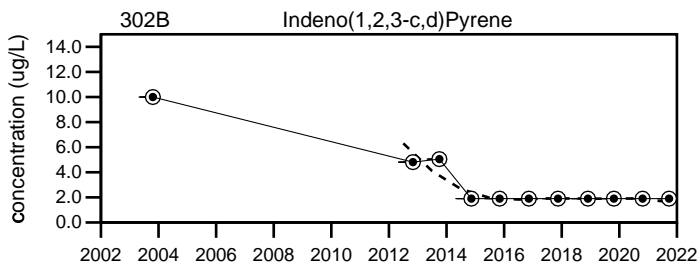
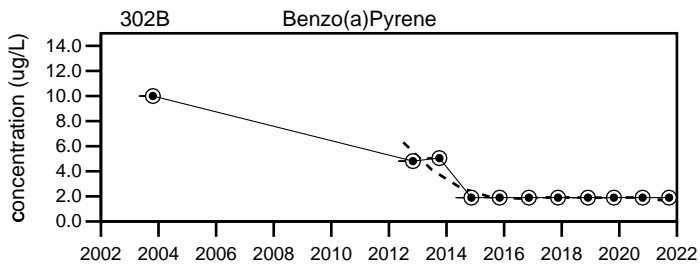
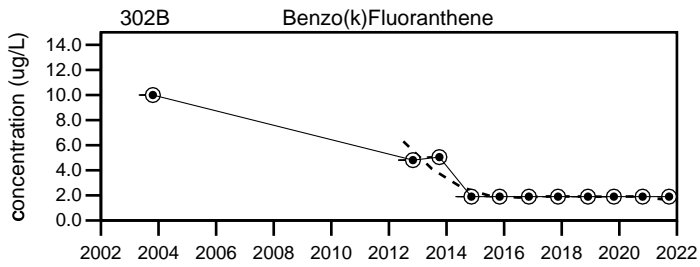
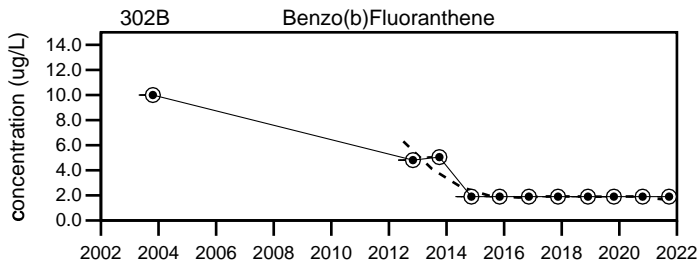
Sevee & Maher Engineers, Inc.



Dolby Landfill
302B

LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL



LEGEND

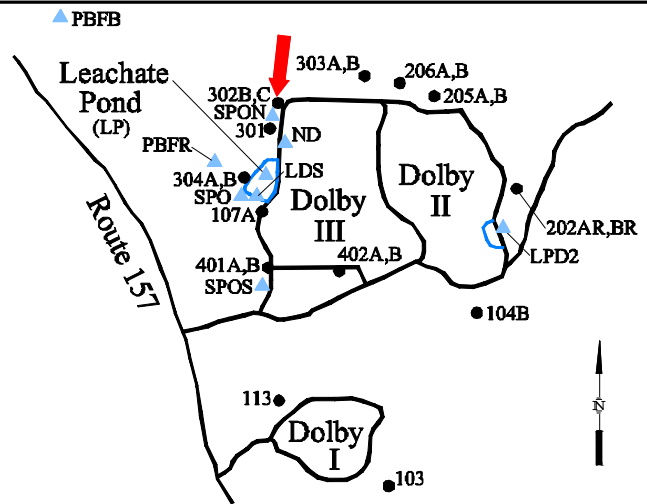
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
302B

Well Description

Well located downgradient to the northwest of Dolby III Landfill.

Screen Interval: **6 ft. to 11 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-83**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1675	1491		292	to 1793	1100 ± 44		63
Dissolved Oxygen (mg/L)		0.2	0.4		0.1	to 6.6	0.9 ± 0.13		62
Total Dissolved Solids (mg/L)		↑1200	1000		189	to 1100	670 ± 29		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.04 U	0.0071 ± 0.000		61
Calcium (mg/L)		↑243	200		72	to 240	160 ± 4.4		57
Manganese (mg/L)		60	52		0.171	to 60.5	23 ± 2.1		63
pH (STU)		6.4	6.8		5.71	to 7.4	6.3 ± 0.036		63
Alkalinity (CaCO3) (mg/L)		↑1100	990		47.3	to 1000	530 ± 30		63
Ca-mg Hardness (CaCO3) (mg/L)		↑977	↑812		105.5	to 801	520 ± 23		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		↑1100	990		39	to 1000	520 ± 31		63
Sodium (mg/L)		↑ 77.6	↑ 69.4		6.98	to 65.4	37 ± 1.9		63
Chloride (mg/L)		60	55		26	to 140	55 ± 2		63
Iron (mg/L)		0.832	0.763		0.02 U	to 2.442	0.66 ± 0.069		63
Magnesium (mg/L)		↑89.7	↑76		9.2	to 74	40 ± 2.2		57
Potassium (mg/L)		10.8	16.2		1.19	to 18.5	3.7 ± 0.34		63
Sulfate (mg/L)		1 U	1 U		1 U	to 79	23 ± 2.8		63
Total Suspended Solids (mg/L)		5.2	4 U		0.32 U	to 23	2.6 ± 0.37		63
Turbidity (field) (NTU)		0.4	0.3		0	to 1.2	0.33 ± 0.029		62
Ammonia (N) (mg/L)		1.9	3.3		0.08 U	to 5.3	0.6 ± 0.12		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.67 ± 0.091		63
Organic Carbon (mg/L)		33	29		2.6	to 48	19 ± 0.98		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

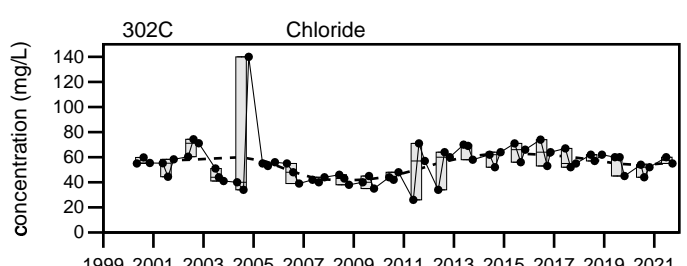
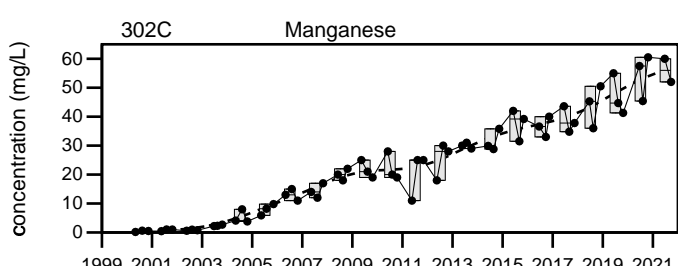
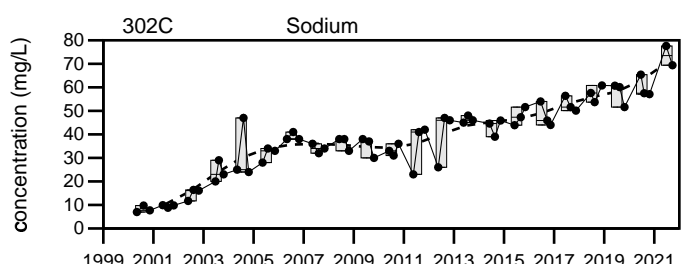
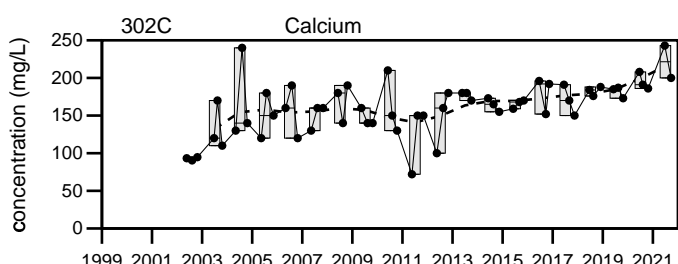
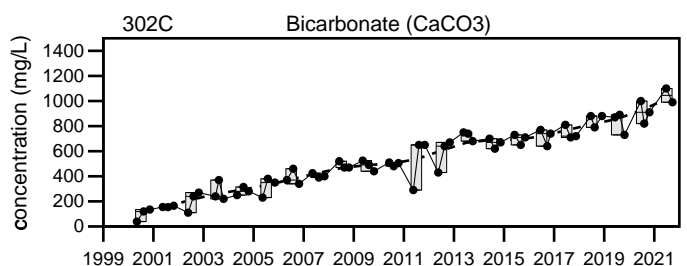
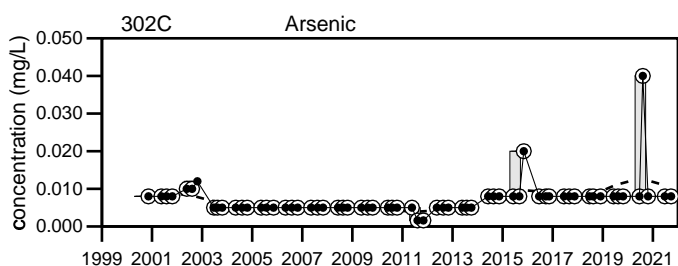
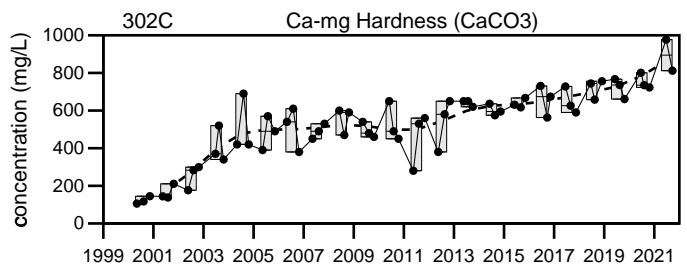
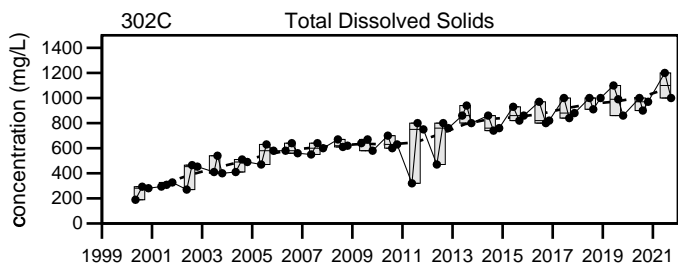
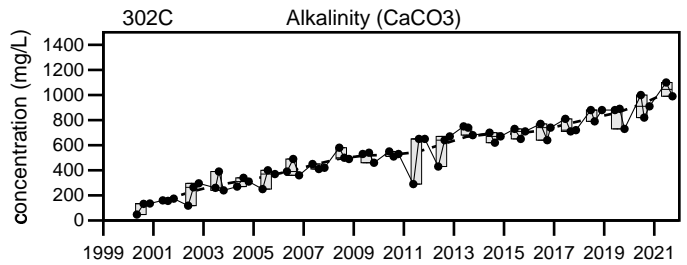
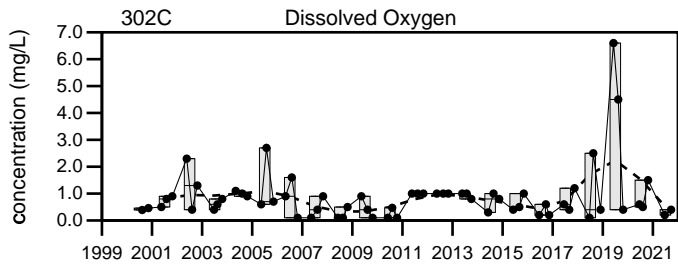
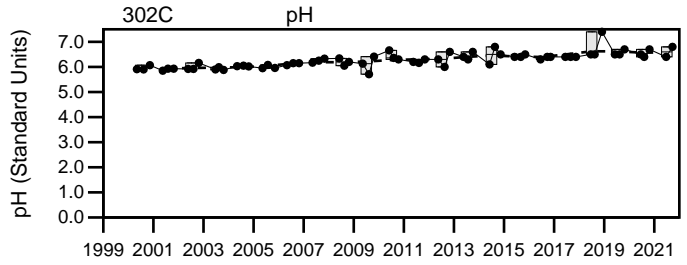
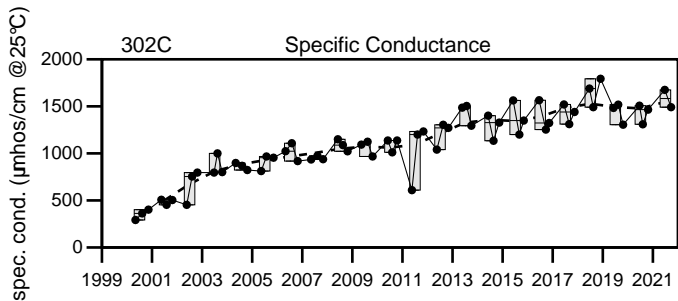
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021
 Q4= 10 - 2021

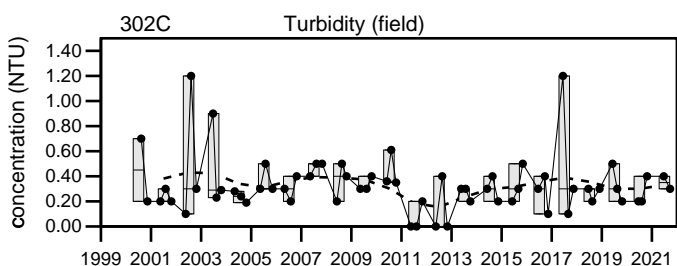
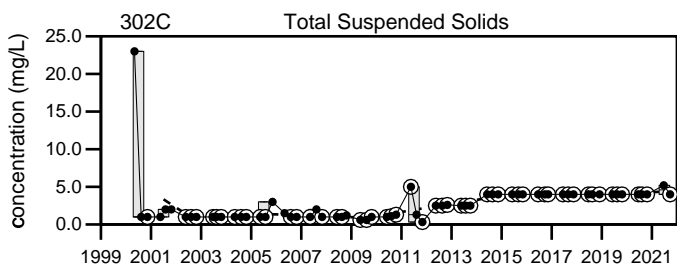
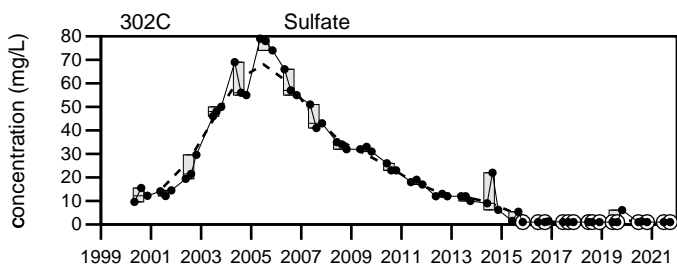
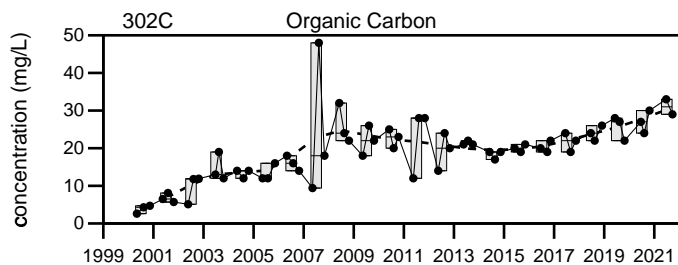
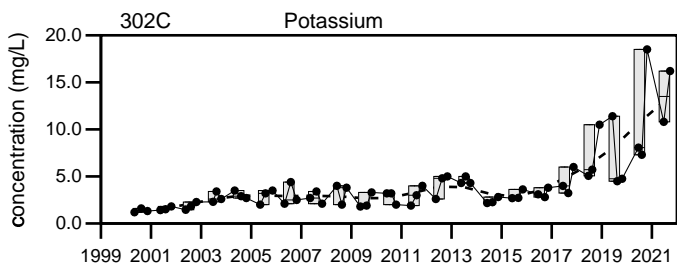
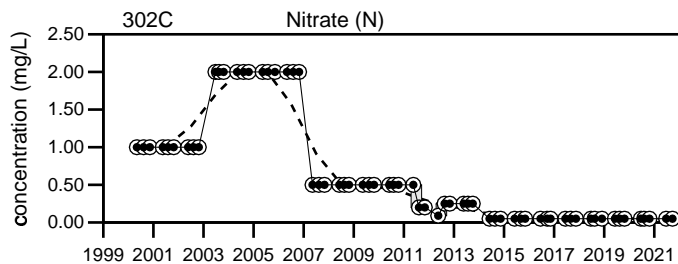
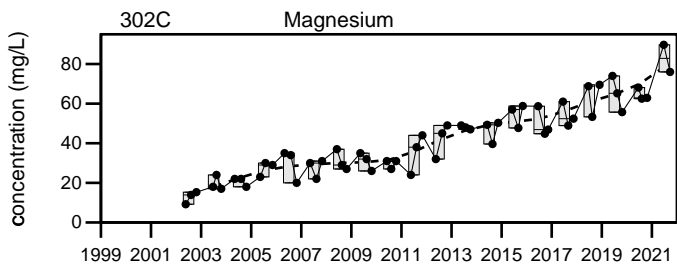
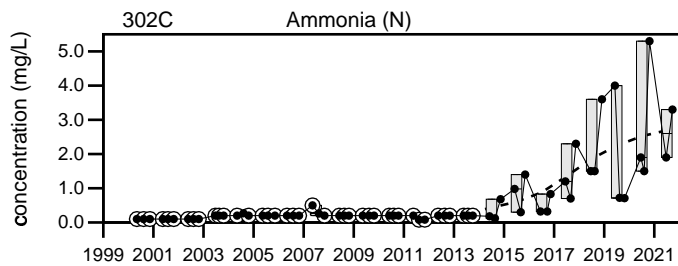
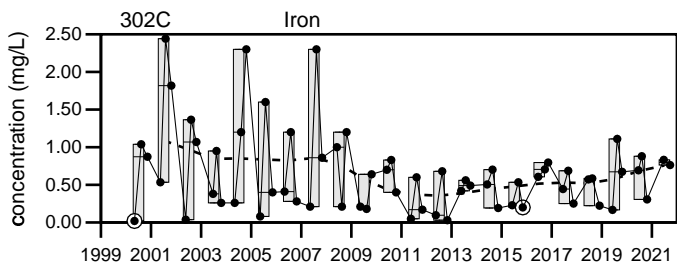


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
302C

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

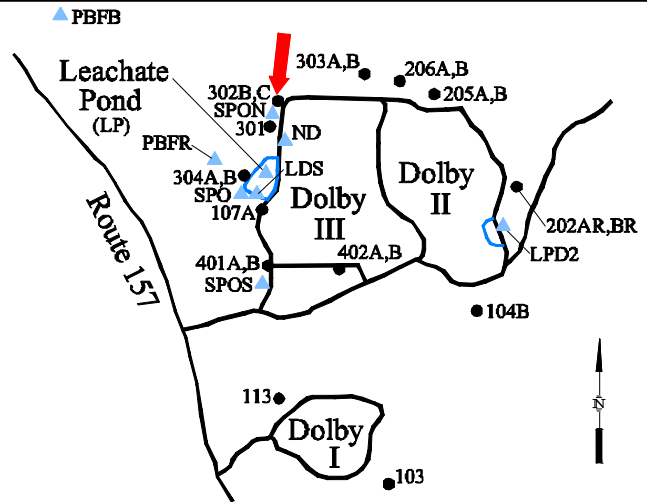
Dolby Landfill 302C

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the northwest of Dolby III Landfill.

Screen Interval: **6 ft. to 11 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-83**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Benzene (ug/L)			3 U		3 U to 5 U		3.8 ± 0.3		12
Toluene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
Ethylbenzene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
o-Xylene (ug/L)			5 U		5 U to 5 U		5 ± 0		12
m,p-Xylene (ug/L)			10 U		5 U to 10 U		8.8 ± 0.65		12
C11-C22 AROMATICS (ADJUSTED) (ug/L)			↓93 U		94 U to 630		150 ± 53		10
C19-C36 ALIPHATICS (ADJUSTED) (ug/L)			↓93 U		94 U to 1900		280 ± 180		10
C5-C8 ALIPHATICS (ADJUSTED) (ug/L)			100 U		75 U to 100 U		94 ± 3.6		9
C9-C10 AROMATICS (ADJUSTED) (ug/L)			100 U		25 U to 100 U		83 ± 11		9
C9-C12 ALIPHATICS (ADJUSTED) (ug/L)			100 U		25 U to 100 U		83 ± 11		9
C9-C18 ALIPHATICS (ADJUSTED) (ug/L)			↓93 U		94 U to 150		100 ± 5.5		10
Methyltertiarybutylether (ug/L)			5 U		5 U to 5 U		5 ± 0		9
Naphthalene (ug/L)			5 U		4.81 U to 10 U		5.5 ± 0.5		10
Naphthalene (EPH) (ug/L)			1.9 U		1.9 U to 1.9 U		1.9 ± 1E-08		7
2-Methylnaphthalene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Acenaphthylene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Acenaphthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Fluorene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Phenanthrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(a)Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Chrysene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(b)Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(k)Fluoranthene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(a)Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Indeno(1,2,3-c,d)Pyrene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Dibenz(a,h)Anthracene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11
Benzo(g,h,i)perylene (ug/L)			1.9 U		1.9 U to 10 U		3.2 ± 0.77		11

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

Acenaphthene RAGGWrs=540 ug/L, MEG16=400 ug/L, Toluene RAGGWrs=1100 ug/L, MEG16=600 ug/L, MCL=1000 ug/L, Ethylbenzene RAGGWrs=15 ug/L, MEG16=30 ug/L, MCL=700 ug/L, C11-C22 AROMATICS (ADJUSTED) RAGGWrs=600 ug/L, MEG16=200 ug/L, C19-C36 ALIPHATICS (ADJUSTED) RAGGWrs=40000 ug/L, MEG16=10000 ug/L, C5-C8 ALIPHATICS (ADJUSTED) RAGGWrs=180 ug/L, MEG16=300 ug/L, C9-C10 AROMATICS (ADJUSTED) RAGGWrs=71 ug/L, MEG16=200 ug/L, C9-C12 ALIPHATICS (ADJUSTED) RAGGWrs=350 ug/L, MEG16=700 ug/L, C9-C18 ALIPHATICS (ADJUSTED) RAGGWrs=350 ug/L, MEG16=700 ug/L, Methyltertiarybutylether RAGGWrs=140 ug/L, MEG16=35 ug/L, Naphthalene RAGGWrs=1.2 ug/L, MEG16=10 ug/L, Naphthalene (EPH)

Data Group: 183

Printed: 4/11/2022 10:44



Dolby Landfill

2021 EPH/VPH Stats

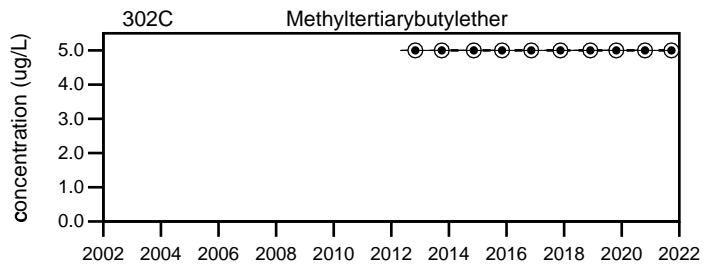
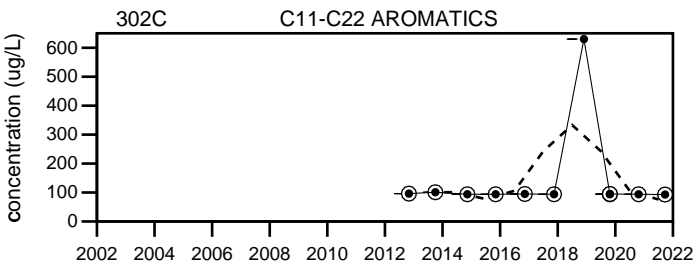
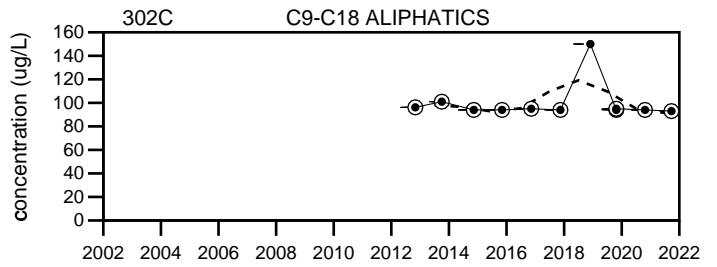
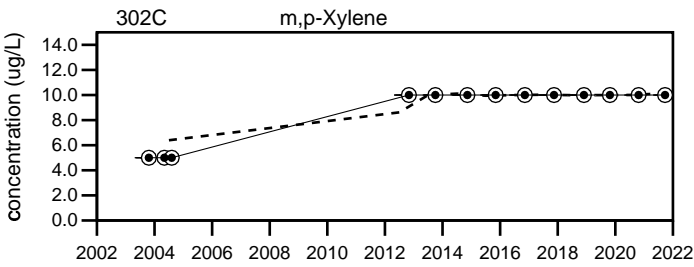
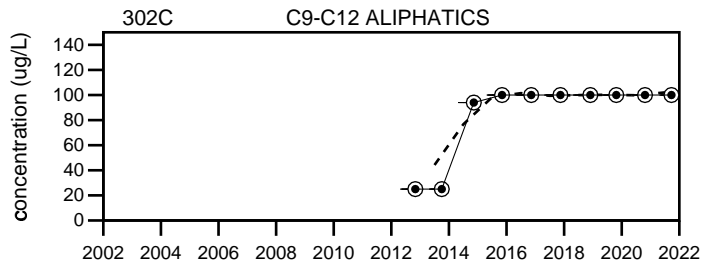
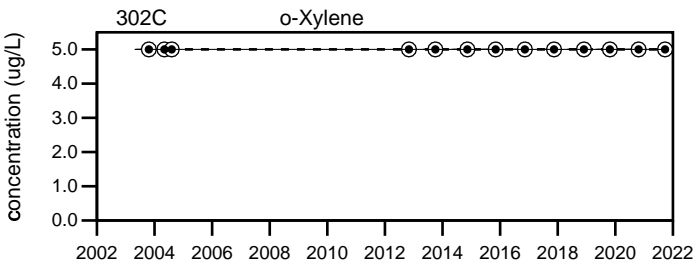
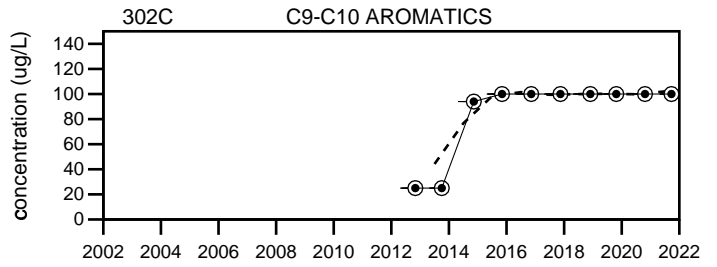
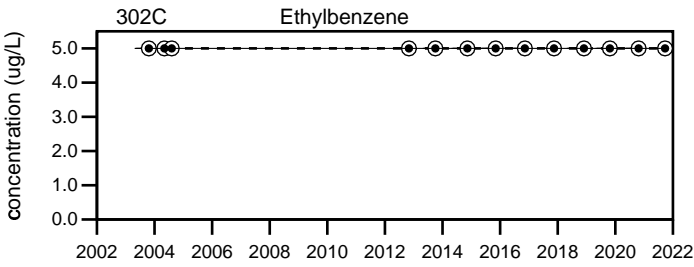
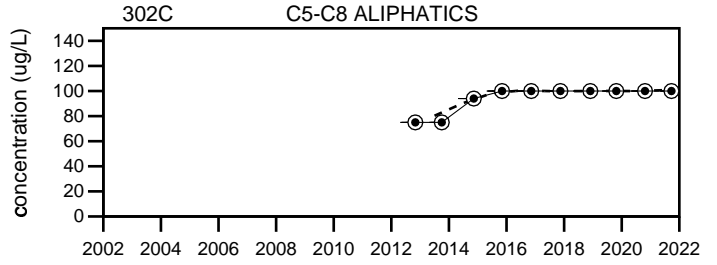
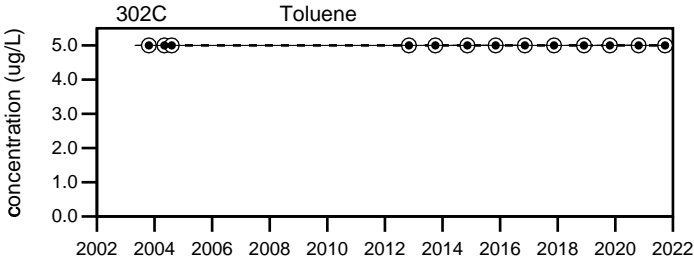
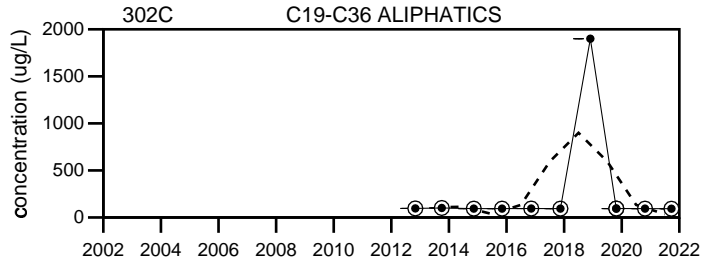
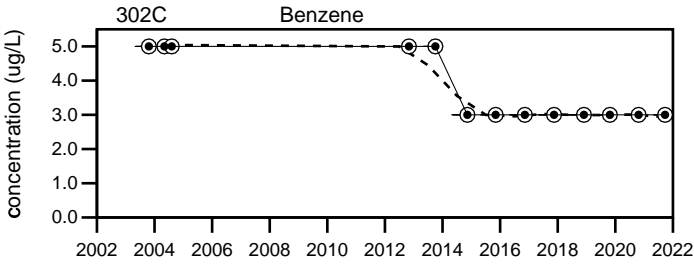
RAGGwRs=1.2 ug/L, MEG16=10 ug/L, Benzene RAGGwRs=4.6 ug/L, MEG16=4 ug/L, MCL=5 ug/L, Acenaphthylene RAGGwRs=520 ug/L, Benzo(g,h,i)perylene RAGGwRs=600 ug/L, Fluorene RAGGwRs=290 ug/L, MEG16=300 ug/L, Phenanthrene RAGGwRs=180 ug/L, Anthracene RAGGwRs=1800 ug/L, MEG16=2000 ug/L, Fluoranthene RAGGwRs=800 ug/L, MEG16=300 ug/L, Pyrene RAGGwRs=120 ug/L, MEG16=200 ug/L, Benzo(a)Anthracene RAGGwRs=0.3 ug/L, MEG16=0.5 ug/L, Chrysene RAGGwRs=250 ug/L, MEG16=50 ug/L, Benzo(b)Fluoranthene RAGGwRs=2.5 ug/L, MEG16=0.5 ug/L, Benzo(k)Fluoranthene RAGGwRs=25 ug/L, MEG16=5 ug/L, Benzo(a)Pyrene RAGGwRs=0.25 ug/L, MEG16=0.05 ug/L, MCL=0.2 ug/L, Indeno(1,2,3-c,d)Pyrene RAGGwRs=2.5 ug/L, MEG16=0.5 ug/L, Dibenz(a,h)Anthracene RAGGwRs=0.25 ug/L, MEG16=0.05 ug/L, 2-Methylnaphthalene RAGGwRs=36 ug/L, MEG16=30 ug/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

Q3= 9 - 2021

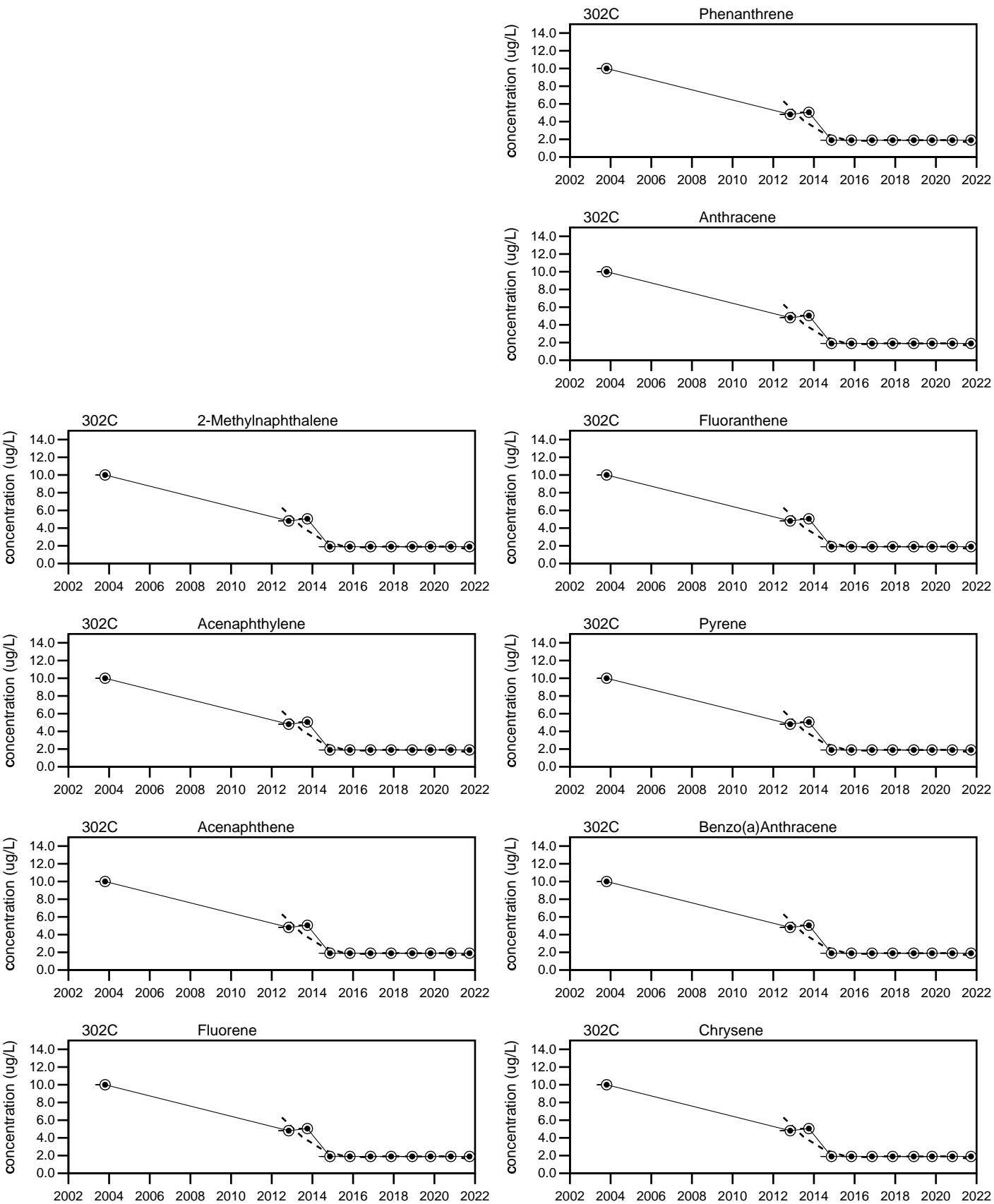


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
302C

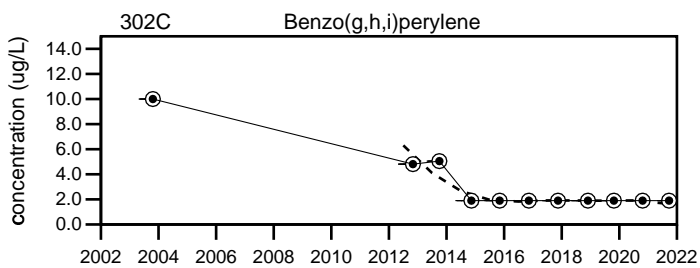
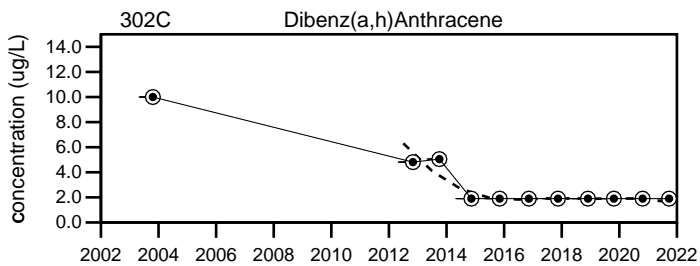
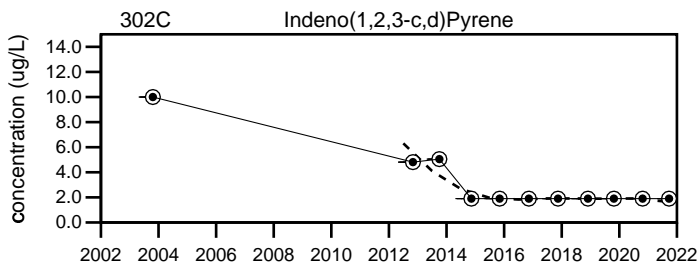
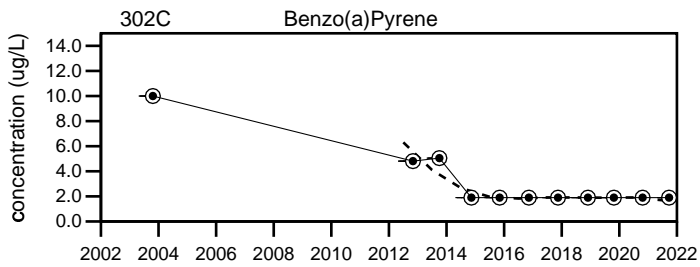
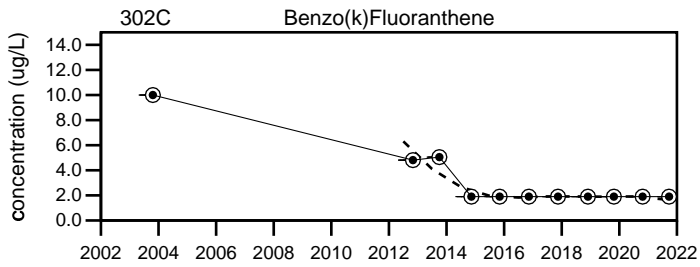
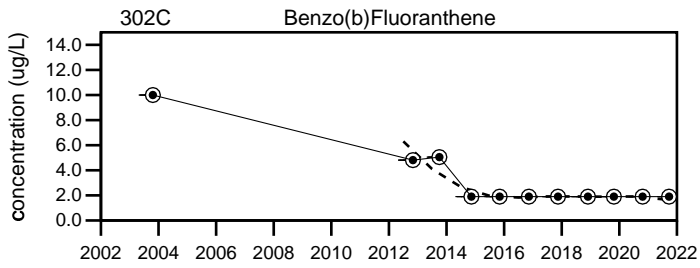
Sevee & Maher Engineers, Inc.



Dolby Landfill
302C

LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL



LEGEND

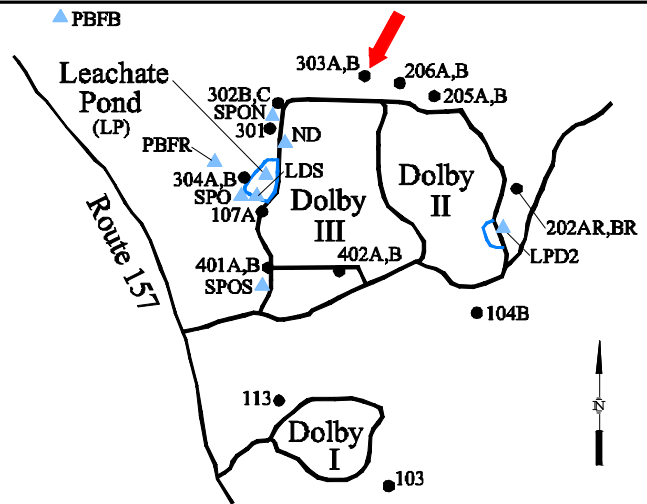
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
302C

Well Description

Well located downgradient to the northwest of the Dolby II Landfill.

Screen Interval: **32.6 ft. to 42.6 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-85**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		596	↓90		556 to 2650		1200 ± 62		63
Dissolved Oxygen (mg/L)		0.5	0.4		0.1 to 4.9		0.78 ± 0.11		62
Total Dissolved Solids (mg/L)		380	440		300 to 1537		660 ± 36		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U to 0.022		0.0066 ± 0.000		61
Calcium (mg/L)		52.3	60.6		37.2 to 180		88 ± 4.9		57
Manganese (mg/L)		7.27	8.56		5.11 to 21		11 ± 0.41		63
pH (STU)		6.3	7		6 to 7		6.5 ± 0.024		63
Alkalinity (CaCO3) (mg/L)		370	500		200 to 1470		630 ± 35		63
Ca-mg Hardness (CaCO3) (mg/L)		331	386		221 to 1274.3		580 ± 35		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		370	500		180 to 1470		610 ± 33		63
Sodium (mg/L)		10.5	11.7		7.6 to 54.3		23 ± 1.5		63
Chloride (mg/L)		5.8	12		4.2 to 83.9		23 ± 2.3		63
Iron (mg/L)		0.109	0.376		0.013 to 2.3		0.33 ± 0.045		63
Magnesium (mg/L)		48.6	57		31.2 to 190		79 ± 4.9		57
Potassium (mg/L)		30.5	31.6		23 to 71		40 ± 1.5		63
Sulfate (mg/L)		13	11		9 to 41		15 ± 0.55		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U to 7		2.7 ± 0.21		63
Turbidity (field) (NTU)		0.2	0.1		0 to 2		0.51 ± 0.048		62
Ammonia (N) (mg/L)		5.7	6.2		4.4 to 24		8.4 ± 0.47		63
Nitrate (N) (mg/L)		2.1	0.064		0.05 U to 8		1.9 ± 0.22		63
Organic Carbon (mg/L)		5.3	6.3		2.9 to 158.5		12 ± 2.5		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

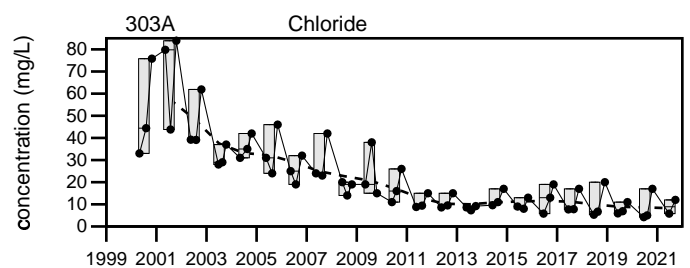
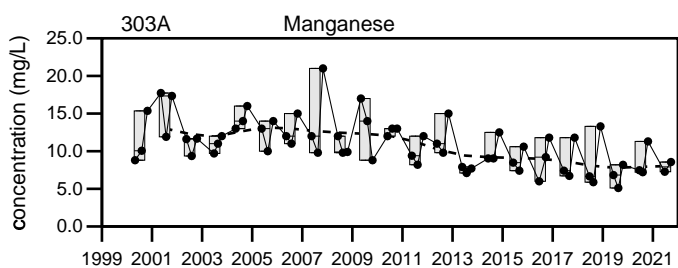
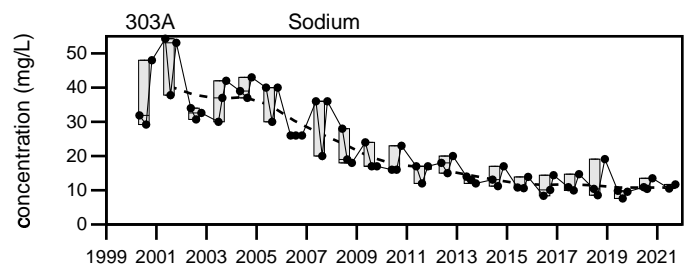
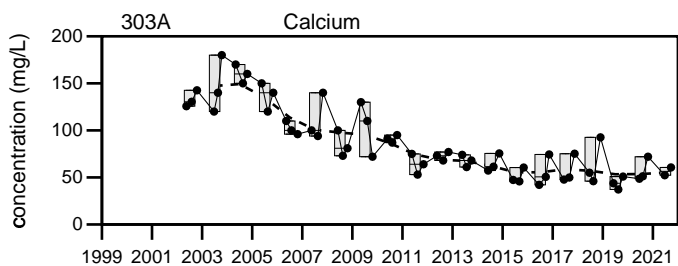
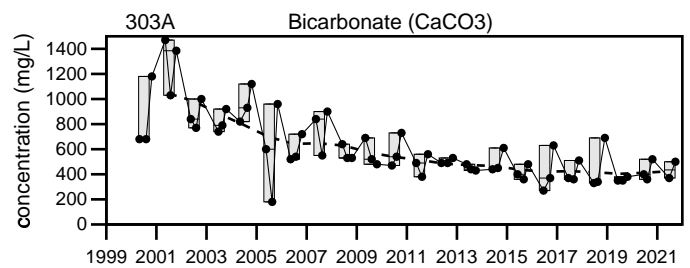
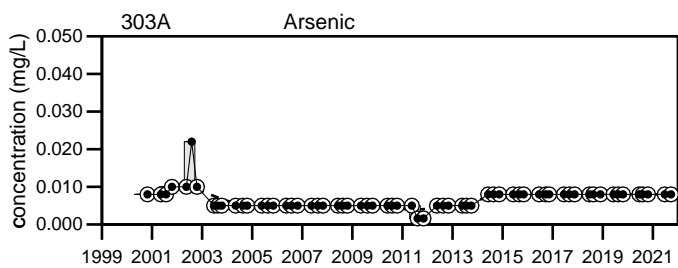
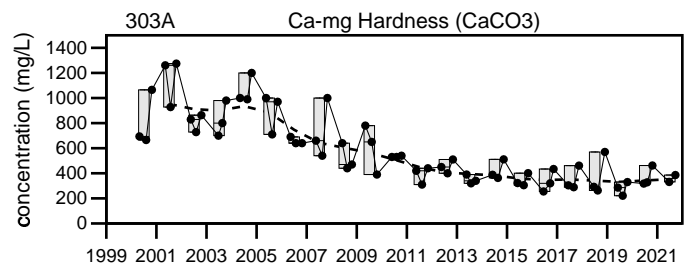
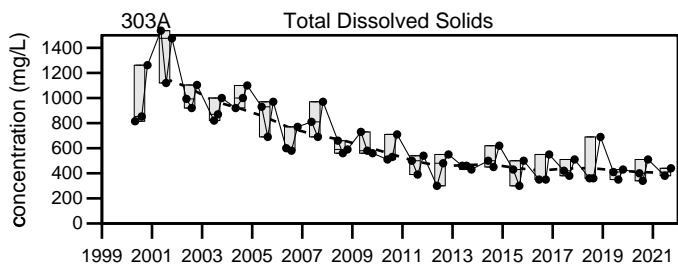
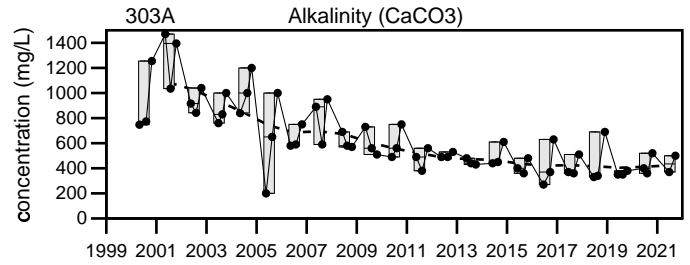
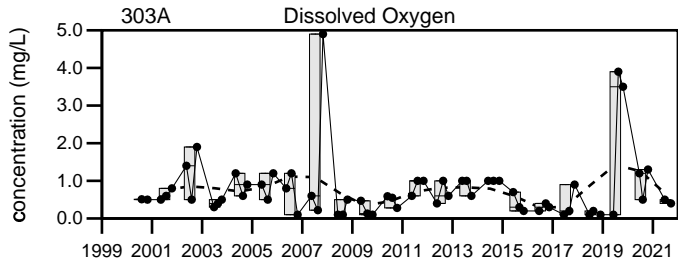
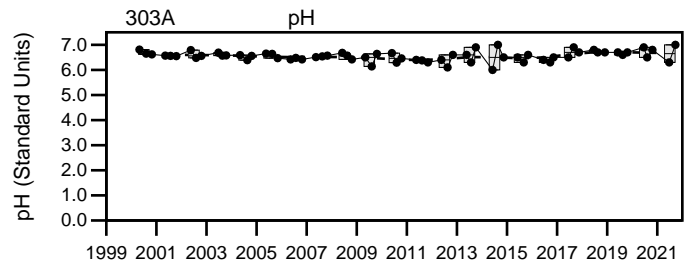
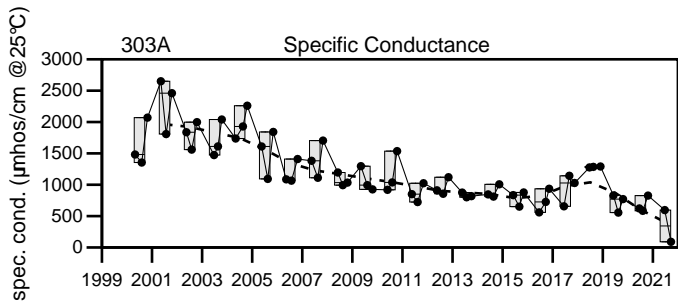
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

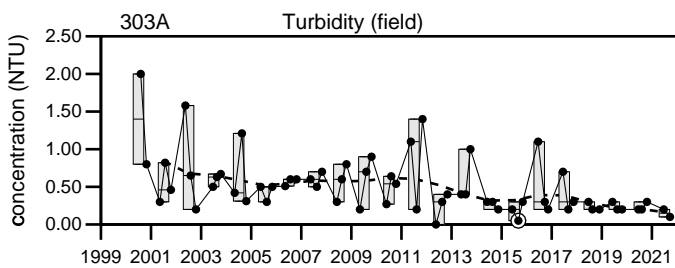
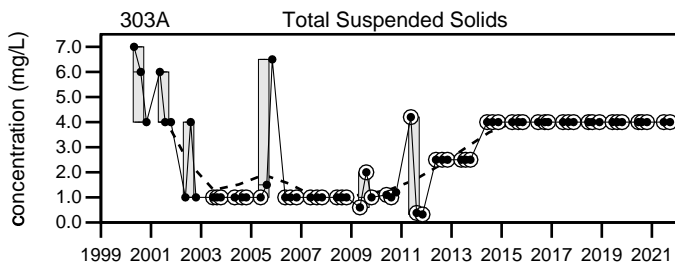
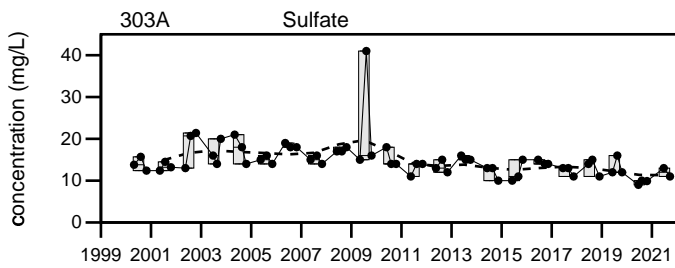
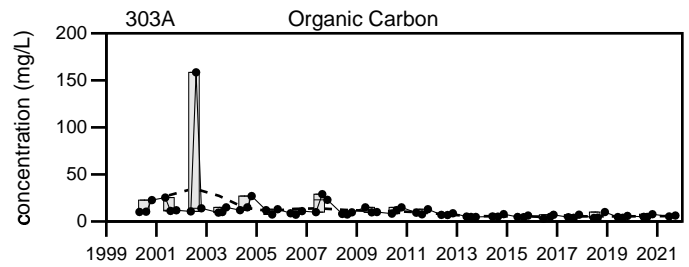
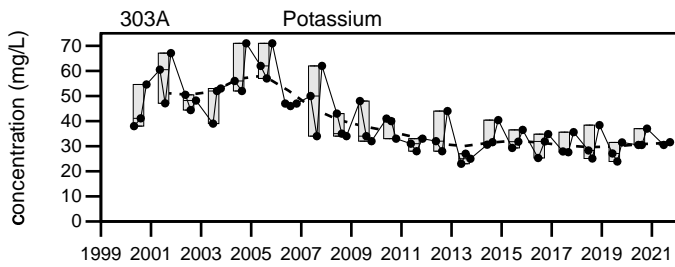
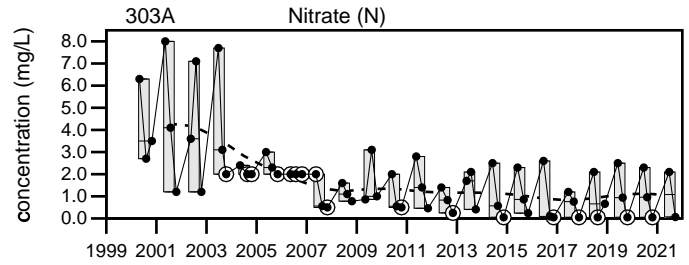
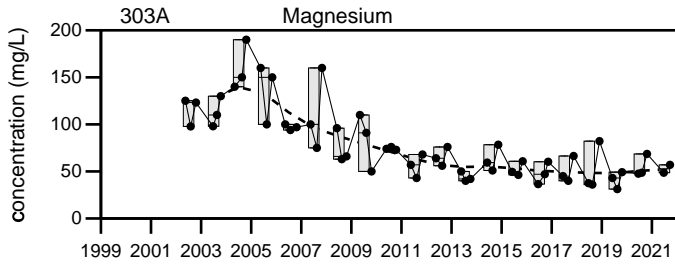
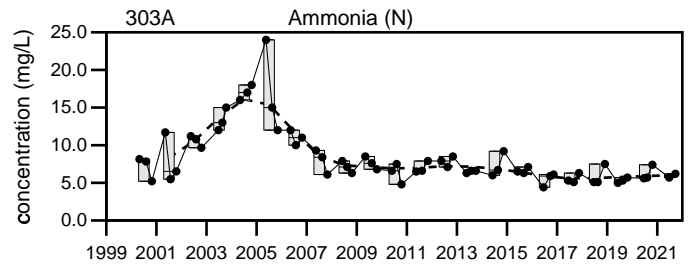
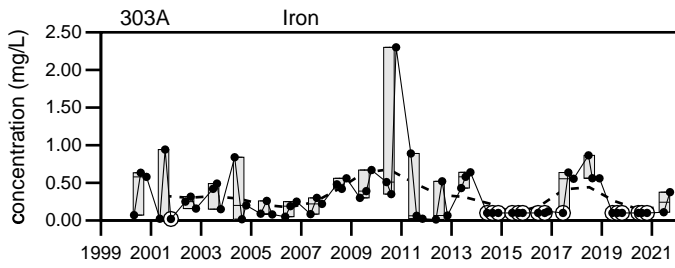
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
303A



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill

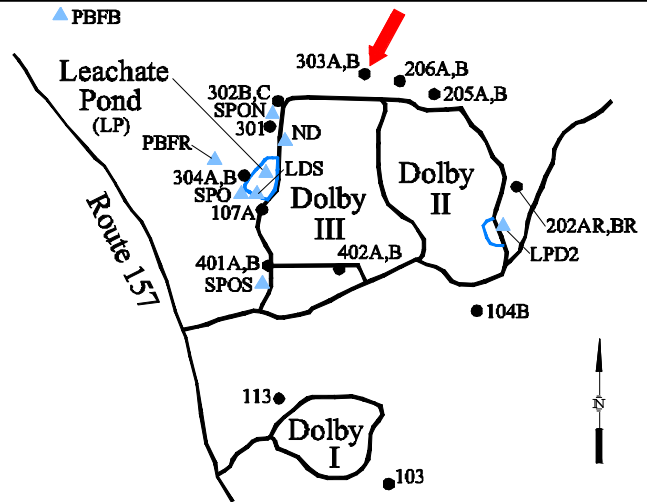
303A

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the northwest of the Dolby II Landfill.

Screen Interval: **13.3 ft. to 23.3 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-85**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		445	848		383	to 2630	1000 ± 69		63
Dissolved Oxygen (mg/L)		0.6	0.4		0.1	to 4.2	0.91 ± 0.097		62
Total Dissolved Solids (mg/L)		270	500		100	to 1605	570 ± 42		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.021	0.0066 ± 0.000		61
Calcium (mg/L)		36.5	71.1		24.6	to 150	65 ± 4.3		57
Manganese (mg/L)		5.06	9.45		4.07	to 28.06	9.5 ± 0.56		63
pH (STU)		6.2	6.3		5.9	to 6.8	6.5 ± 0.023		63
Alkalinity (CaCO3) (mg/L)		250	560		170	to 1545.3	540 ± 40		63
Ca-mg Hardness (CaCO3) (mg/L)		229	464		157	to 1392.2	490 ± 38		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		250	560		170	to 1514	520 ± 38		63
Sodium (mg/L)		7.02	15.5		4.96	to 59.8	19 ± 1.6		63
Chloride (mg/L)		4.8	15		2.8	to 86.1	20 ± 2.4		63
Iron (mg/L)		0.1 U	↑0.187		0.0039	to 0.182	0.05 ± 0.006		63
Magnesium (mg/L)		33.5	69.7		10 U	to 190	69 ± 5.9		57
Potassium (mg/L)		21.8	33.2		17.5	to 69.3	34 ± 1.6		63
Sulfate (mg/L)		12	8.2		6.2	to 35	12 ± 0.51		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U	to 35	3 ± 0.55		63
Turbidity (field) (NTU)		0.2	0.2		0	to 1.1	0.35 ± 0.025		62
Ammonia (N) (mg/L)		3.4	4.9		0.21	to 20 U	6.2 ± 0.43		63
Nitrate (N) (mg/L)		2.3	0.61		0.16	to 13	3.3 ± 0.33		63
Organic Carbon (mg/L)		4.2	8.7		1 U	to 37	9.5 ± 0.9		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

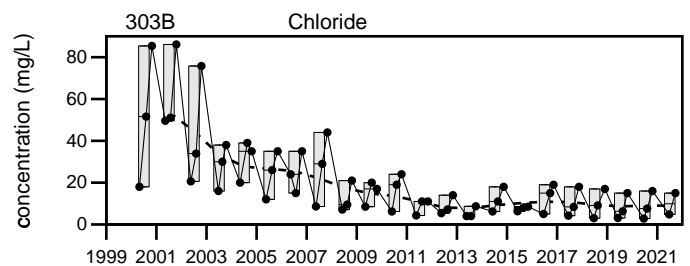
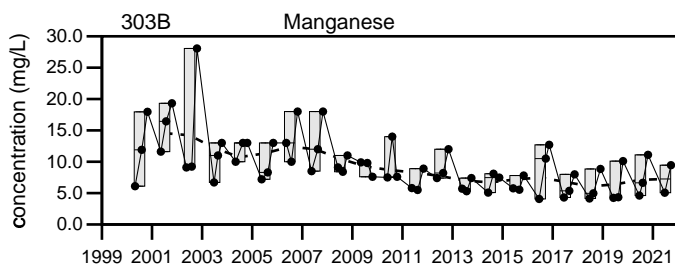
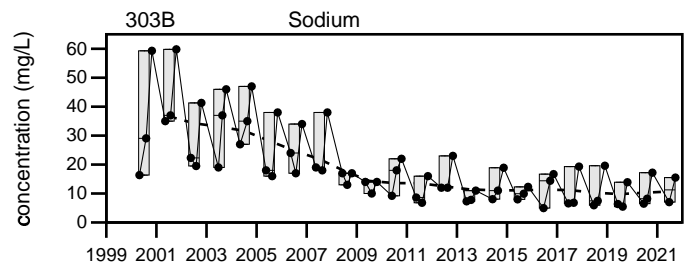
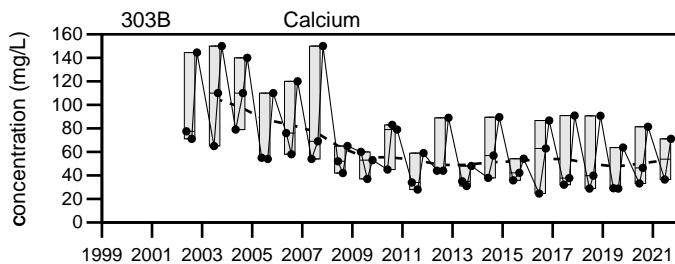
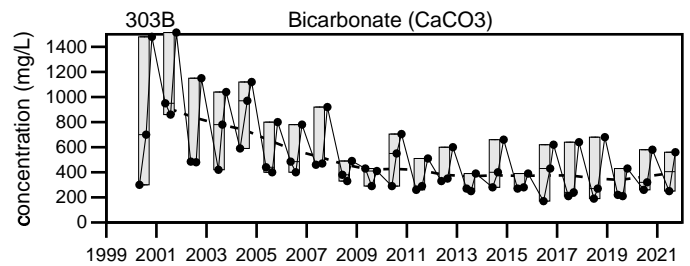
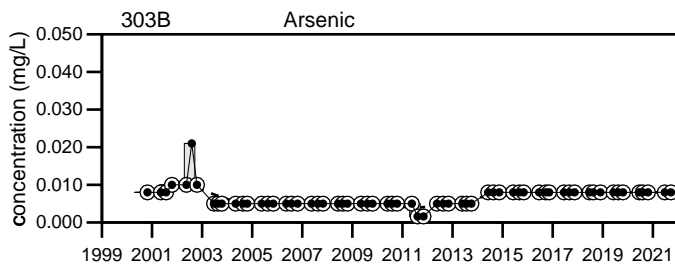
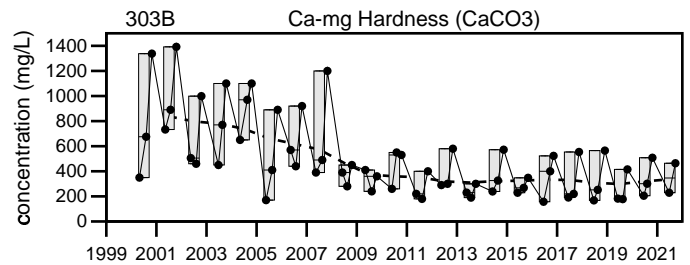
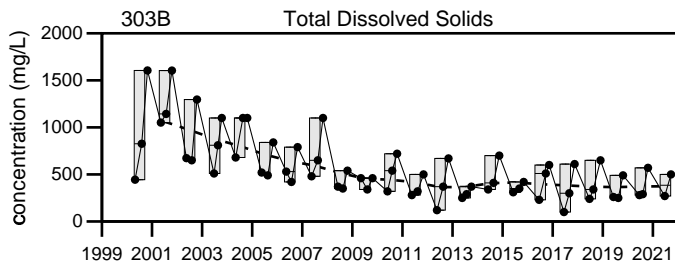
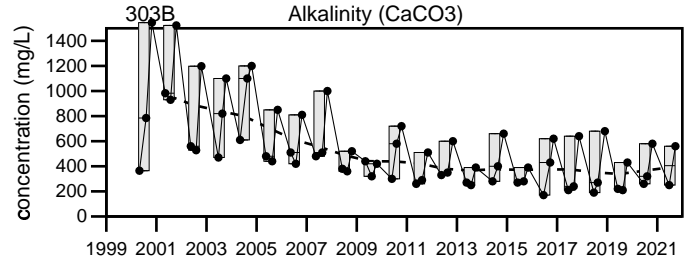
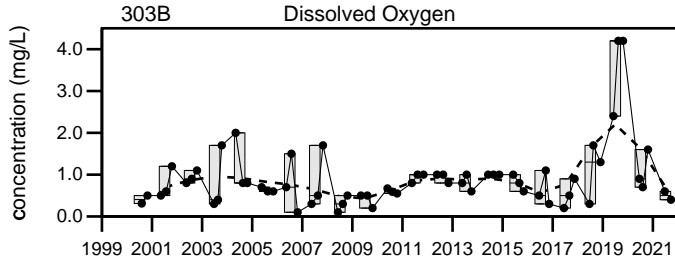
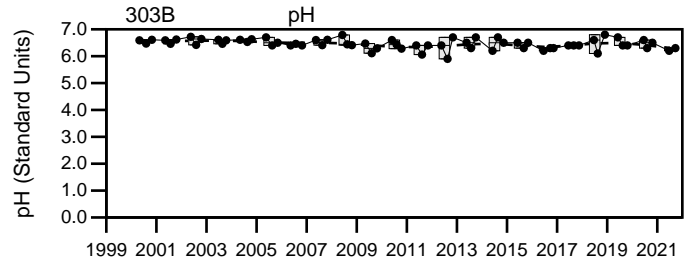
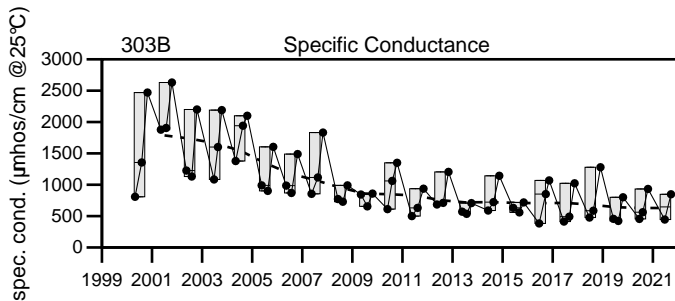
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

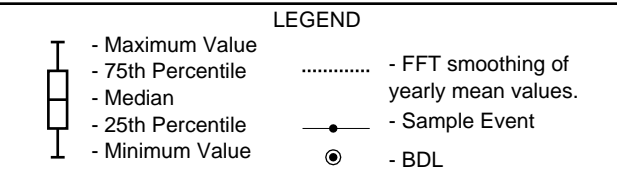
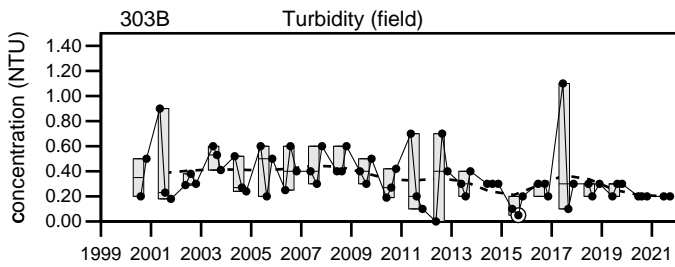
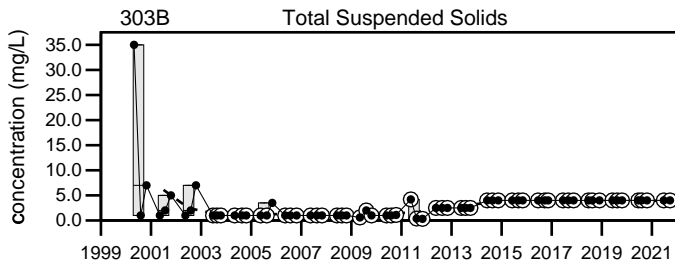
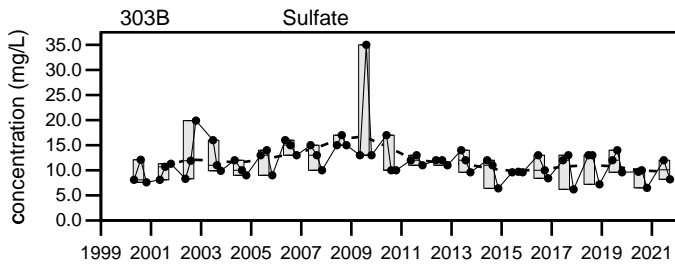
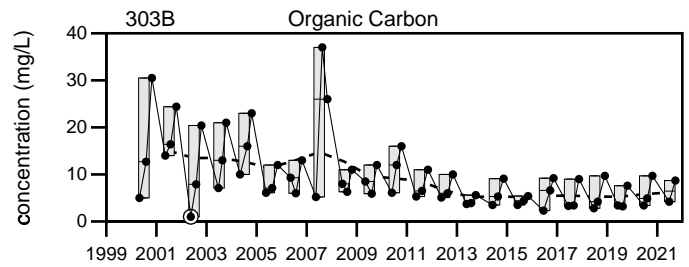
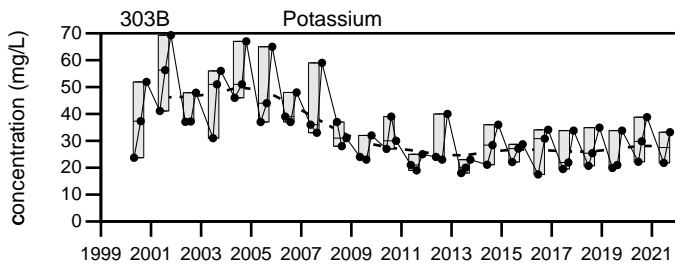
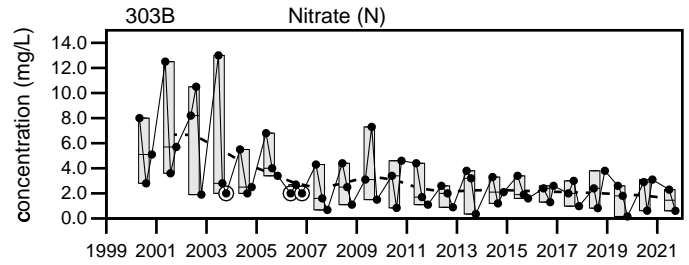
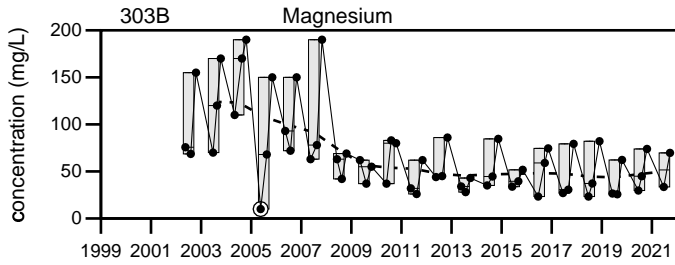
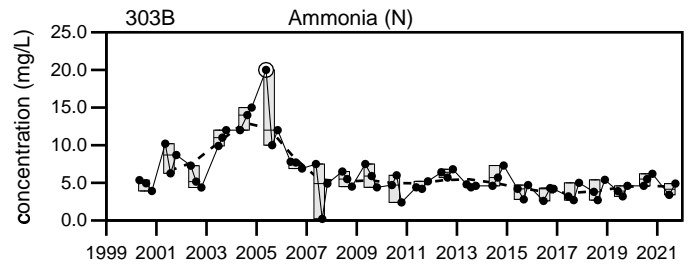
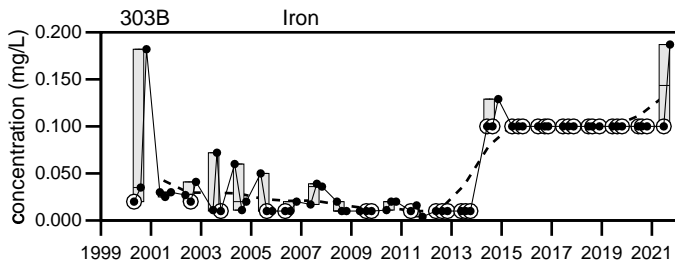
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
303B



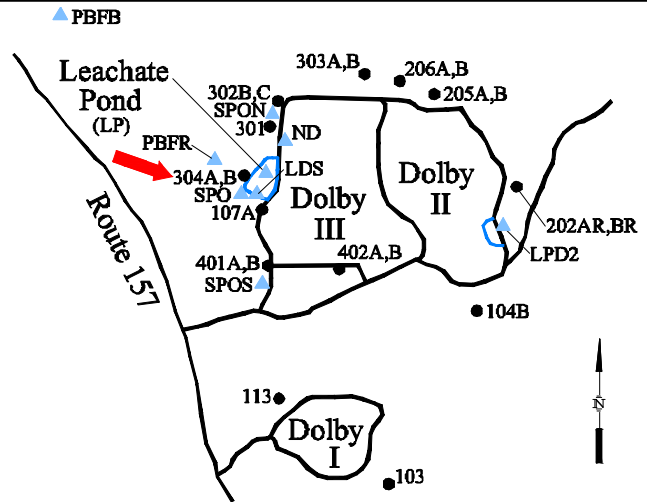
Dolby Landfill
303B

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the west of the landfill.

Screen Interval: **Unknown TOS to 21.5 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Sep-85**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		255	267		211	to 473	320 ± 8.7		63
Dissolved Oxygen (mg/L)		1.4	1.3		0.2	to 8.5	1.6 ± 0.18		62
Total Dissolved Solids (mg/L)		↓99	150		110	to 320	190 ± 5.9		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.01 U	0.0064 ± 0.000		61
Calcium (mg/L)		33.5	38.4		28	to 93	47 ± 2.2		57
Manganese (mg/L)		0.0465	0.0491		0.005 U	to 0.24	0.031 ± 0.006		63
pH (STU)		7.2	7		6.6	to 8.8	7.6 ± 0.051		63
Alkalinity (CaCO3) (mg/L)		130	140		110	to 220	160 ± 4.2		63
Ca-mg Hardness (CaCO3) (mg/L)		114	127		70.3	to 270	150 ± 5.8		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		130	140		110	to 205	150 ± 3.5		63
Sodium (mg/L)		11.2	12.2		7	to 18	12 ± 0.3		63
Chloride (mg/L)		2.8	4.6		2 U	to 18	7.4 ± 0.49		63
Iron (mg/L)		0.349	0.377		0.0054	to 2.1	0.11 ± 0.036		63
Magnesium (mg/L)		7.26	7.56		5	to 13	8.1 ± 0.22		57
Potassium (mg/L)		1.02	1.24		0.89	to 2.4	1.4 ± 0.045		63
Sulfate (mg/L)		13	11		5.6	to 19.5	13 ± 0.31		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U	to 23	3.1 ± 0.42		63
Turbidity (field) (NTU)		0.6	0.3		0	to 38	1.3 ± 0.61		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.5 U	0.15 ± 0.009		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.69 ± 0.093		63
Organic Carbon (mg/L)		1 U	1 U		0.58	to 7.6	1.3 ± 0.12		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

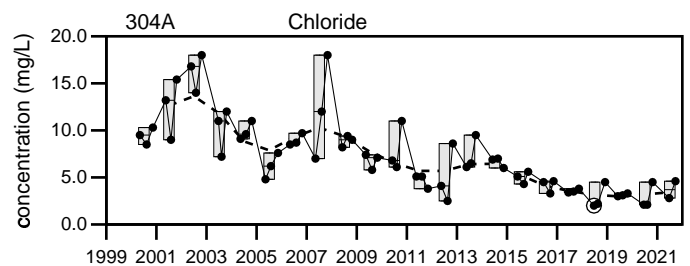
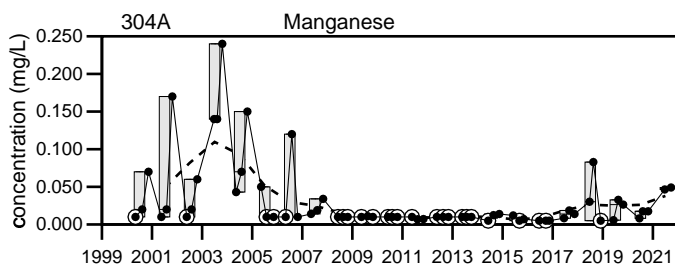
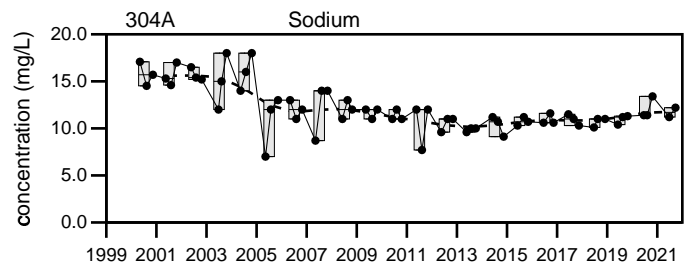
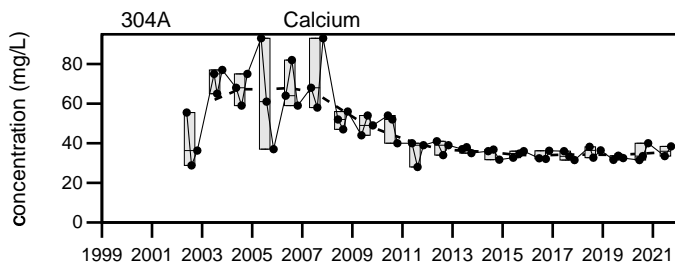
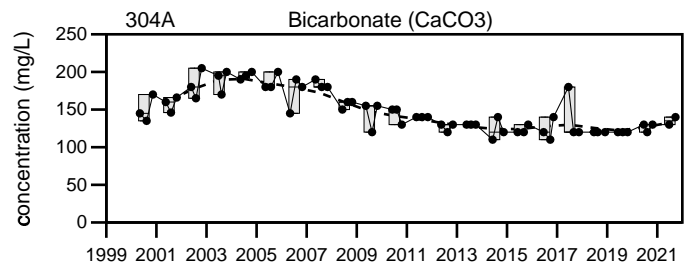
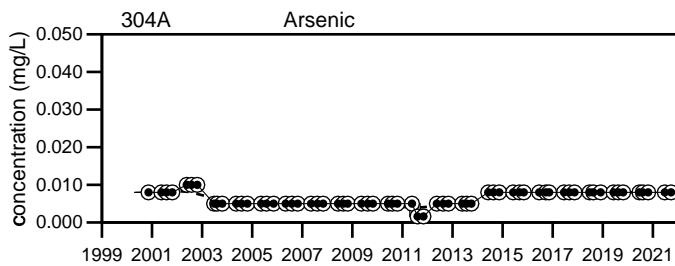
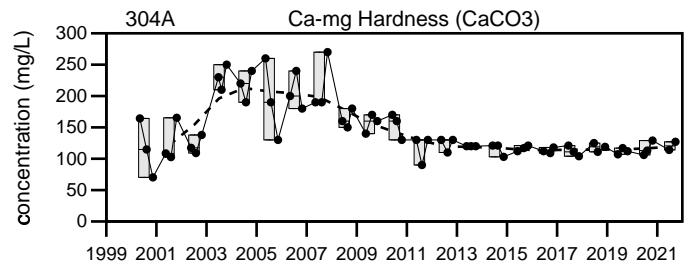
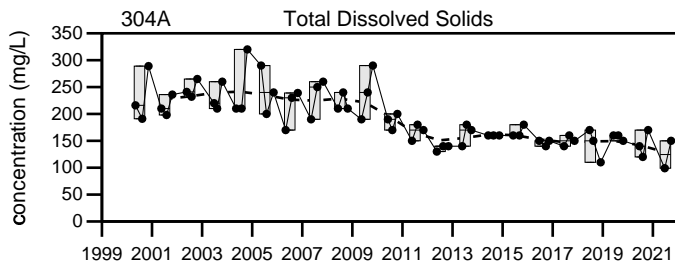
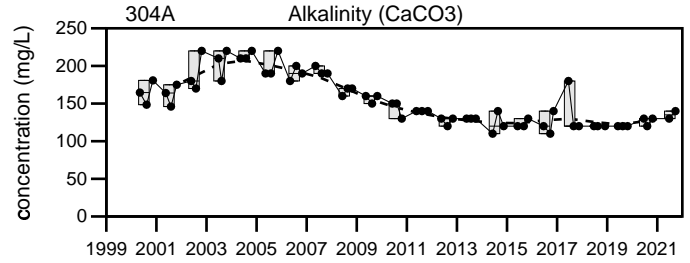
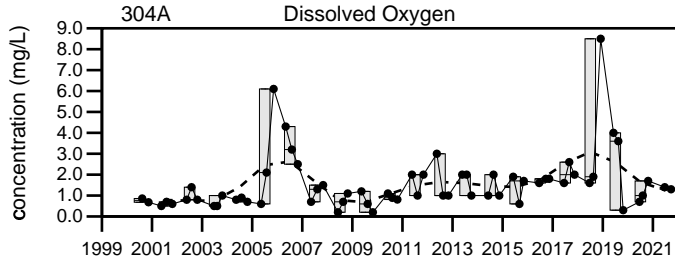
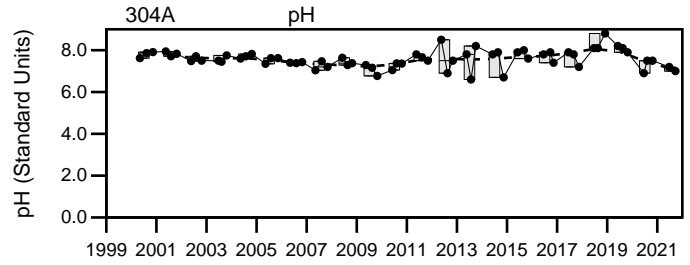
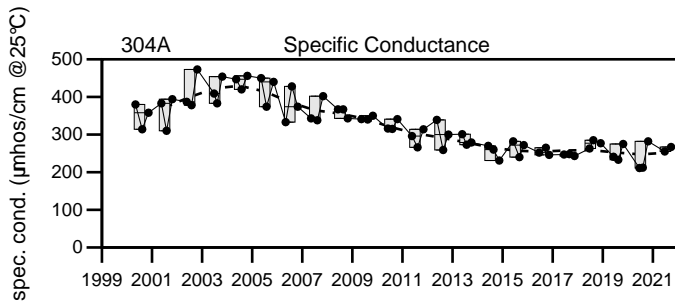
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

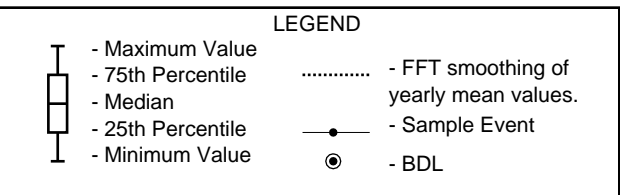
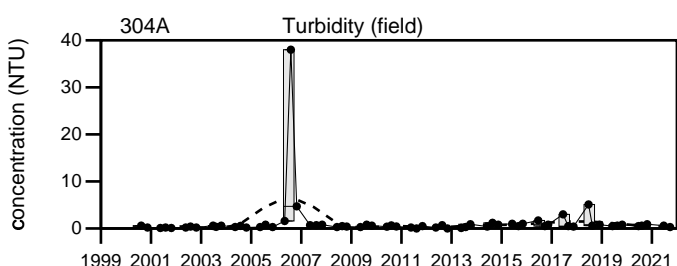
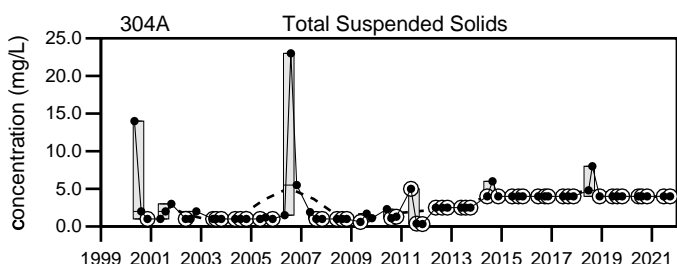
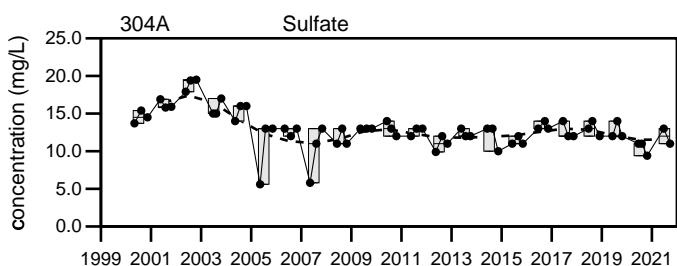
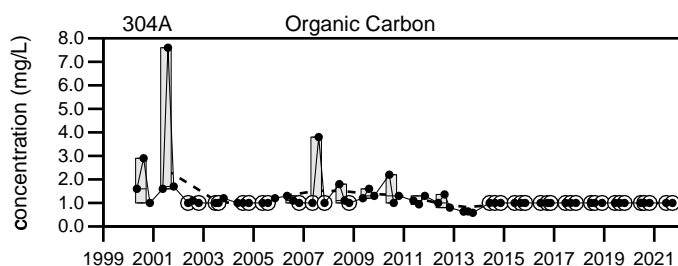
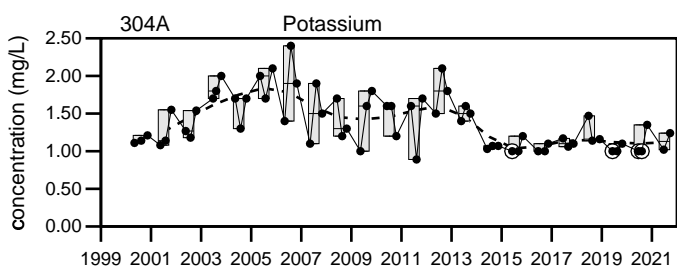
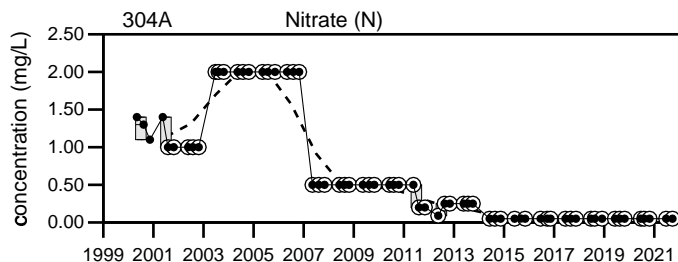
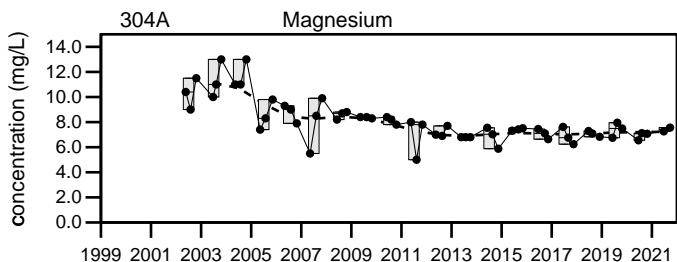
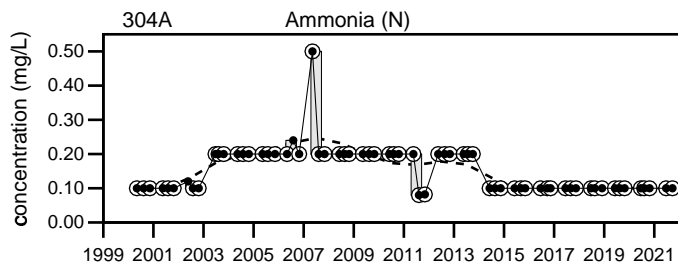
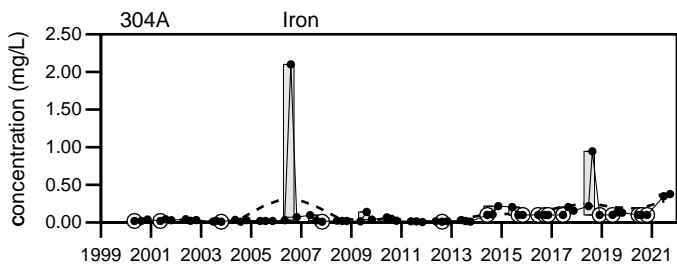
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
304A



Dolby Landfill

304A

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the west of the landfill.

Screen Interval: **Unknown TOS to 8.6 ft.**

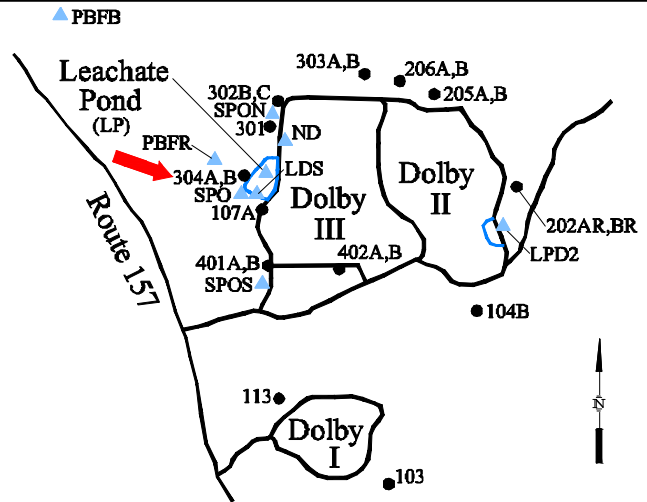
Sampled: **2 Times Annually**

Sampled Since: **Sep-85**

Material Screened: **Glacial Till**

Well Condition: **Good**

Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		146	211		41	to 341	160 ± 9.9		62
Dissolved Oxygen (mg/L)		5.2	↓0.9		1.3	to 13.5	5 ± 0.26		61
Total Dissolved Solids (mg/L)		100	↑220		13	to 204	98 ± 5.6		62
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.01 U	0.0063 ± 0.000		60
Calcium (mg/L)		20.4	32.1		6.34	to 43	18 ± 1.2		57
Manganese (mg/L)		0.0574	0.154		0.005 U	to 0.315	0.034 ± 0.006		62
pH (STU)		6.4	6.6		5.46	to 8	6.6 ± 0.057		62
Alkalinity (CaCO3) (mg/L)		72	110		24	to 122	54 ± 3		62
Ca-mg Hardness (CaCO3) (mg/L)		60.7	95.3		18.2	to 130	53 ± 3.5		62
Bicarbonate Alkalinity (CaCO3) (mg/L)		72	110		22	to 120	53 ± 2.8		62
Sodium (mg/L)		10.8	14		1.89	to 21	9.6 ± 0.47		62
Chloride (mg/L)		6.2	15		1.4	to 63.7	13 ± 1.5		62
Iron (mg/L)		0.334	1.22		0.01 U	to 2.48	0.19 ± 0.044		62
Magnesium (mg/L)		2.39	3.68		0.584	to 5	2.1 ± 0.14		57
Potassium (mg/L)		1 U	1.2		0.44	to 1.9	1 ± 0.022		62
Sulfate (mg/L)		3.8	3.8		1 U	to 20.7	6 ± 0.46		61
Total Suspended Solids (mg/L)		10	4 U		0.32 U	to 86	7.3 ± 2		62
Turbidity (field) (NTU)		0.3	0.2		0	to 17.5	1.3 ± 0.32		61
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.67	0.16 ± 0.012		62
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.67 ± 0.092		62
Organic Carbon (mg/L)		1.1	1 U		0.69	to 5	1.2 ± 0.077		62

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

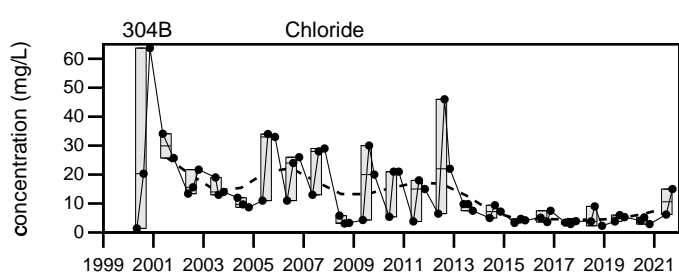
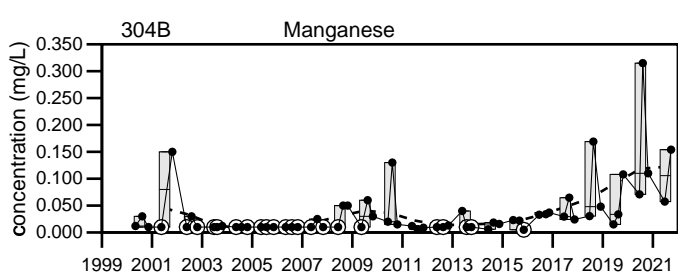
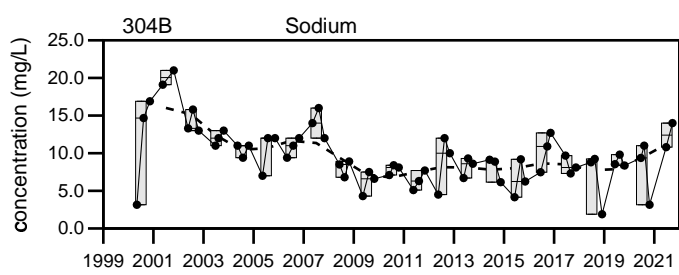
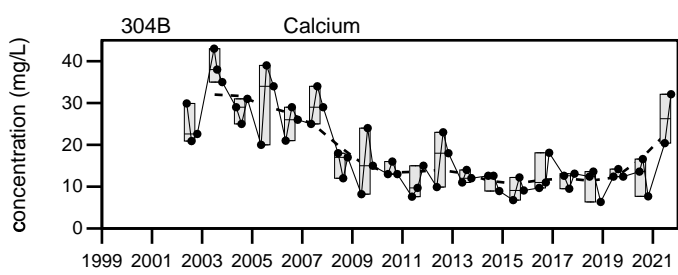
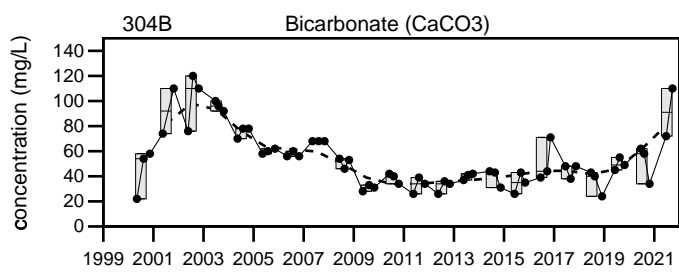
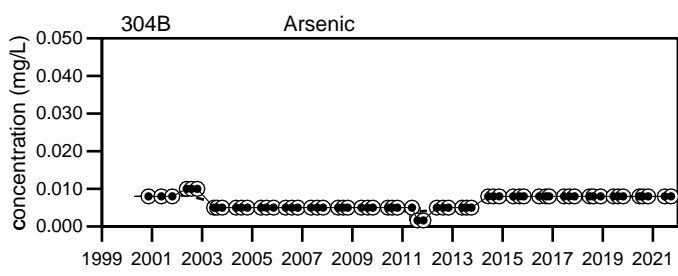
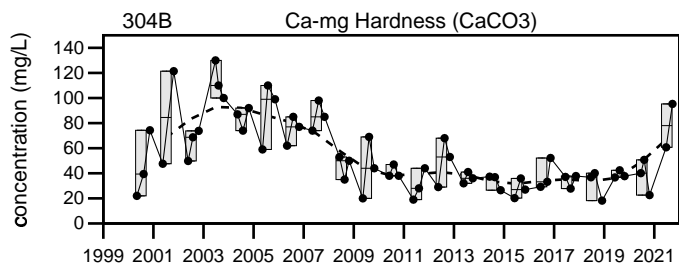
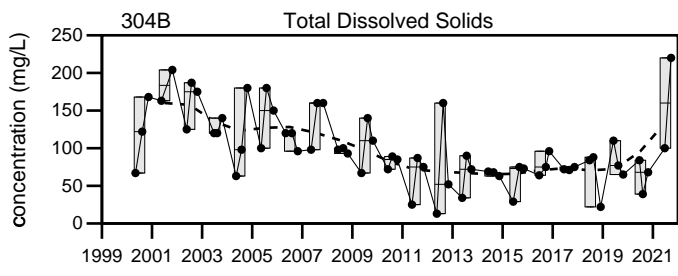
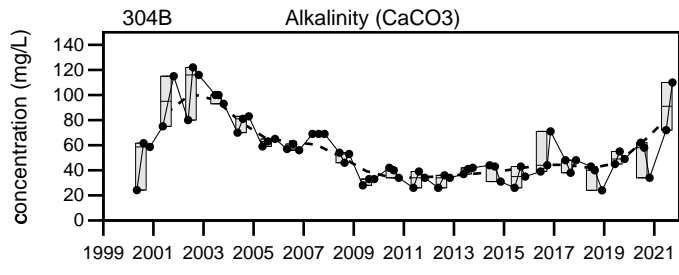
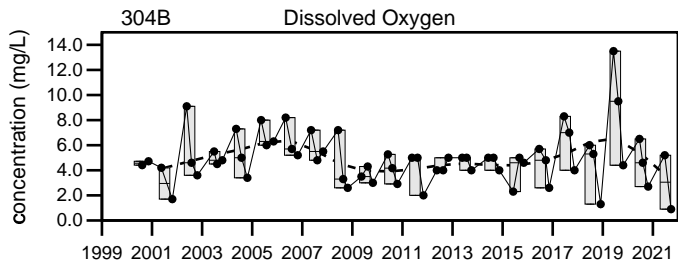
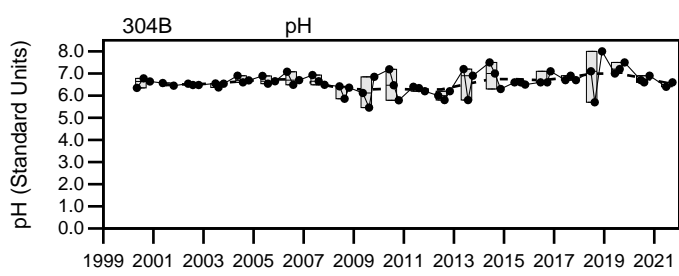
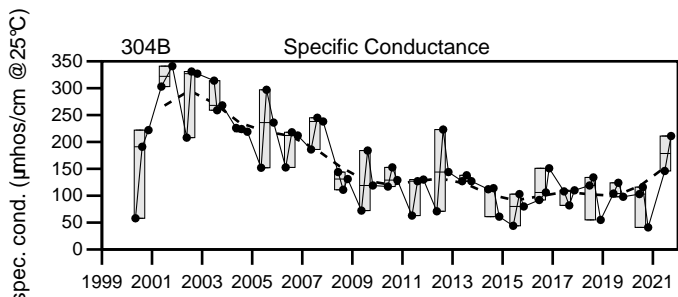
Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

Q3= 9 - 2021

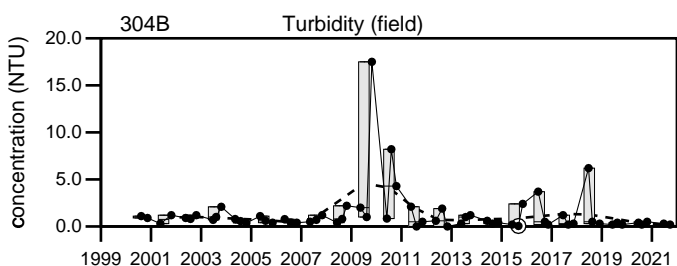
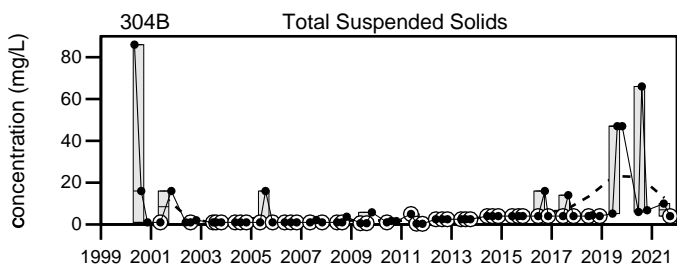
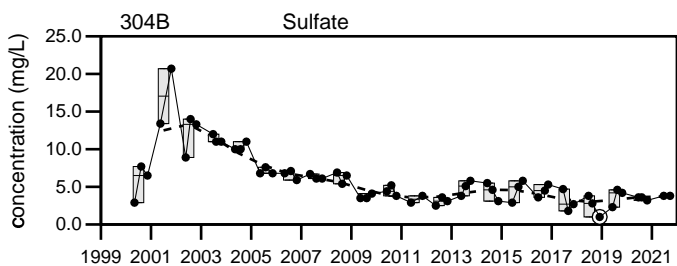
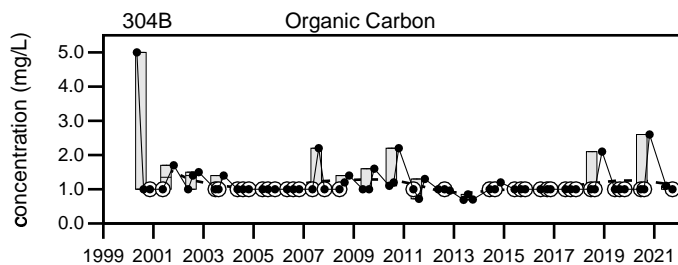
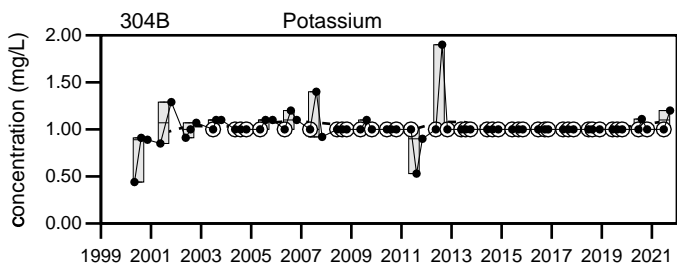
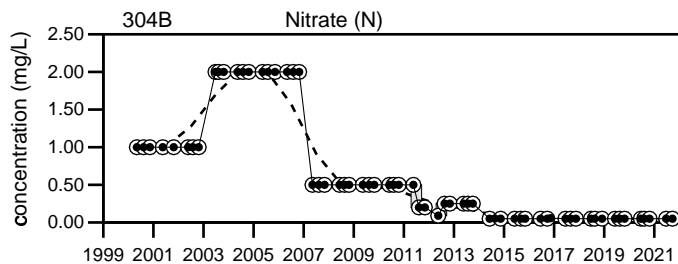
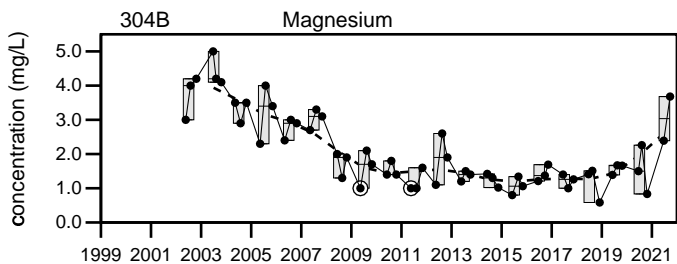
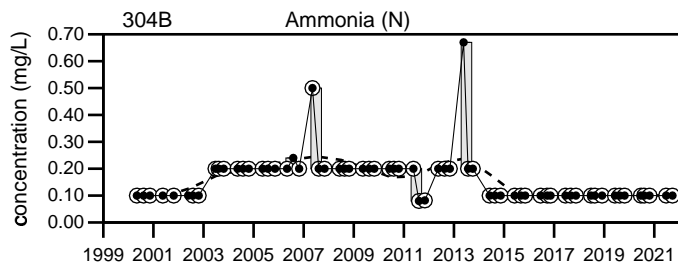
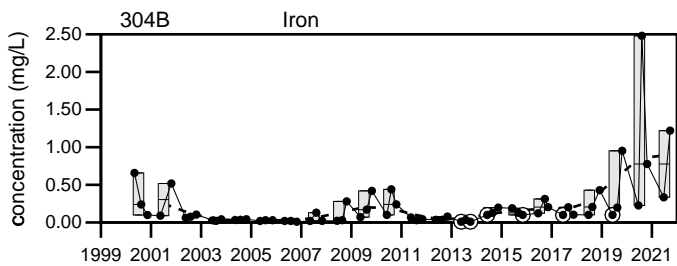


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- Sample Event
- ⊙ - BDL

Dolby Landfill
304B

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill

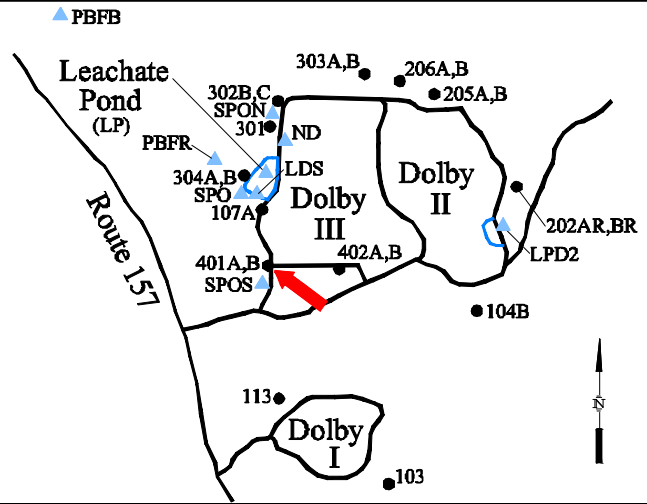
304B

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the southwest of the landfill.

Screen Interval: **30.5 ft. to 40.5 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-90**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		250	256		182 to 370		250 ± 4.3		63
Dissolved Oxygen (mg/L)		5.2	3.6		0.67 to 10.9		4.2 ± 0.26		62
Total Dissolved Solids (mg/L)		190	140		2 to 200		140 ± 3.9		63
Arsenic (mg/L)		0.138	0.142		0.08 to 0.29		0.17 ± 0.004		61
Calcium (mg/L)		38	35.8		14.9 to 42		33 ± 0.75		57
Manganese (mg/L)		0.0053	0.0246		0.0002 to 0.08		0.0098 ± 0.001		63
pH (STU)		7.5	7.6		6.4 to 8.2		7.7 ± 0.039		63
Alkalinity (CaCO3) (mg/L)		110	120		12 to 120		96 ± 1.7		63
Ca-mg Hardness (CaCO3) (mg/L)		125	121		49.8 to 135		100 ± 2.7		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		110	120		12 to 120		95 ± 1.7		63
Sodium (mg/L)		10.4	10.6		6.6 to 12		9.7 ± 0.14		63
Chloride (mg/L)		10	9.7		2.8 to 14		7.8 ± 0.35		63
Iron (mg/L)		0.1 U	0.1 U		0.01 U to 0.359		0.064 ± 0.01		63
Magnesium (mg/L)		7.28	7.75		4.2 to 8.18		6.4 ± 0.11		57
Potassium (mg/L)		1.71	1.74		1.1 to 2.4		1.7 ± 0.035		63
Sulfate (mg/L)		23	24		5.4 to 41		18 ± 0.83		63
Total Suspended Solids (mg/L)		4 U	4.4		0.32 U to 15		2.7 ± 0.3		63
Turbidity (field) (NTU)		0.3	0.4		0.2 to 5		0.78 ± 0.095		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U to 0.5 U		0.15 ± 0.009		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U to 2 U		0.68 ± 0.09		63
Organic Carbon (mg/L)		1 U	1 U		0.53 to 12		1.3 ± 0.18		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

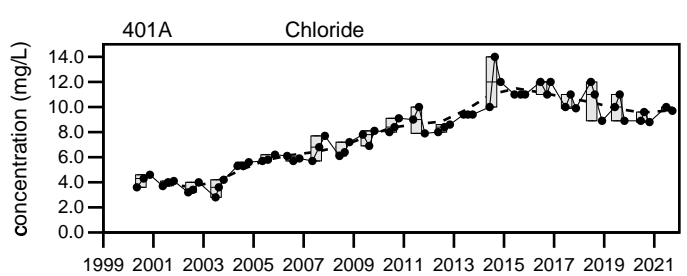
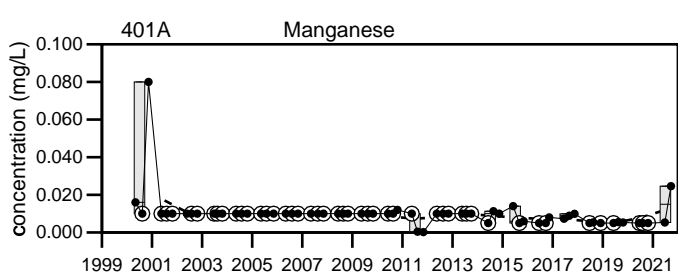
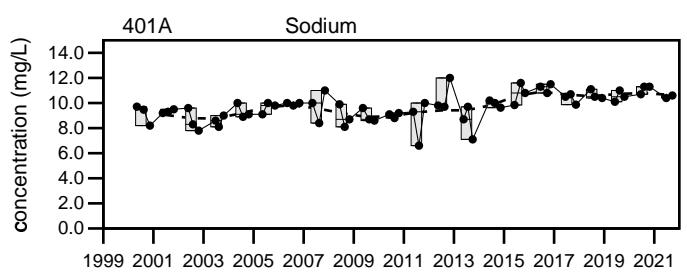
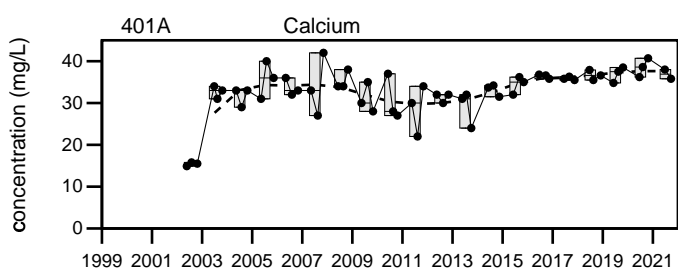
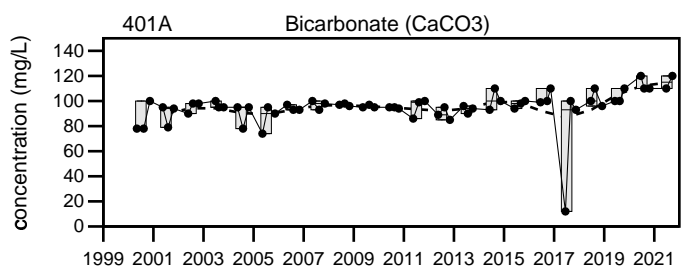
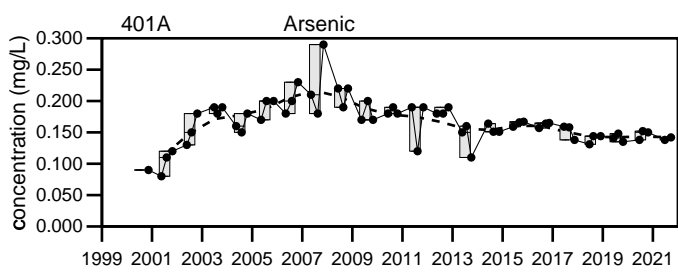
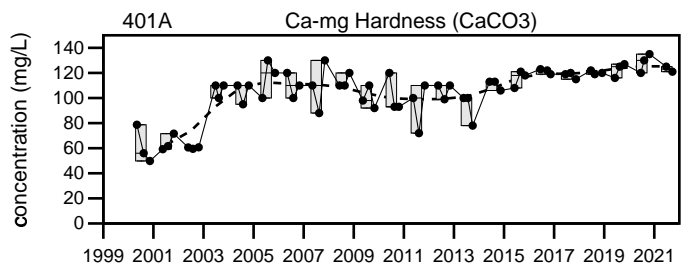
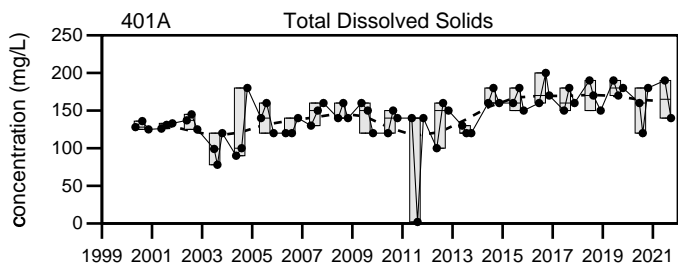
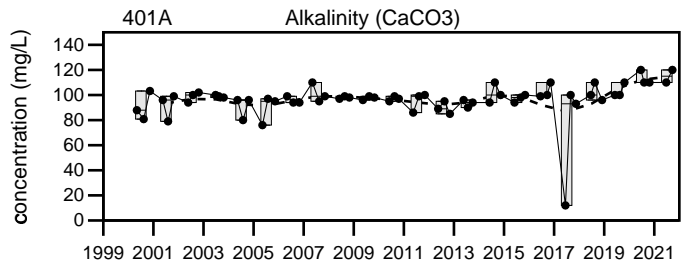
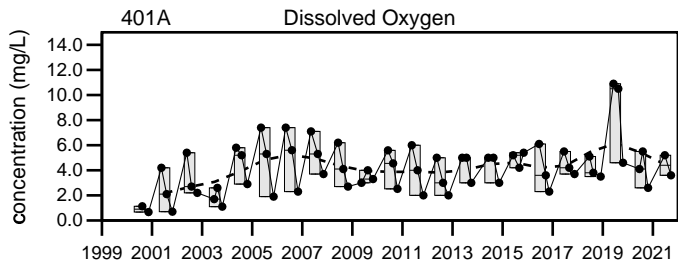
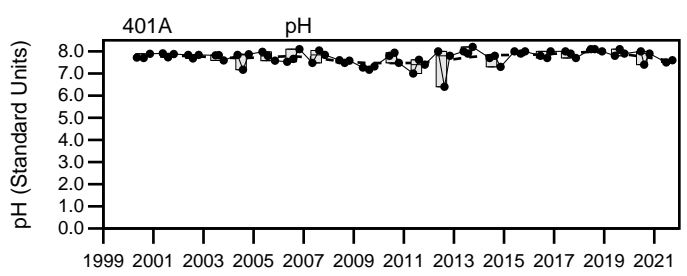
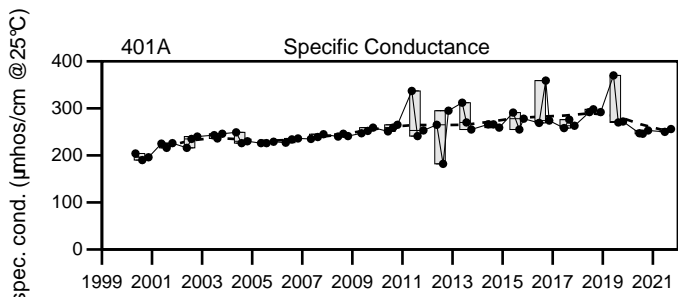
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

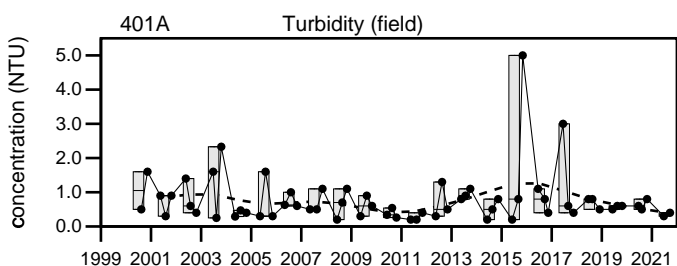
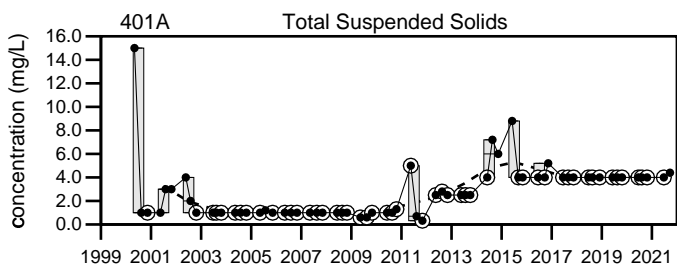
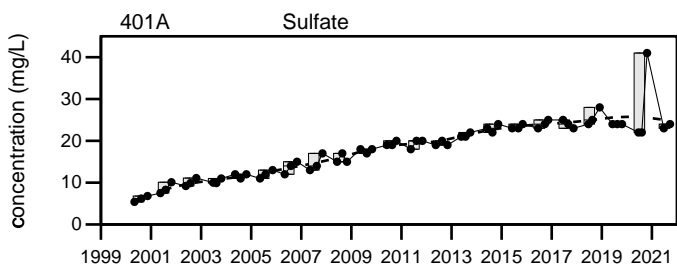
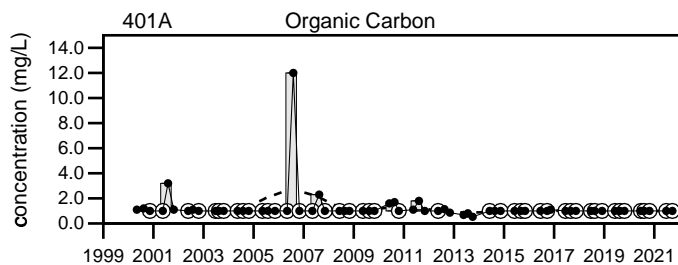
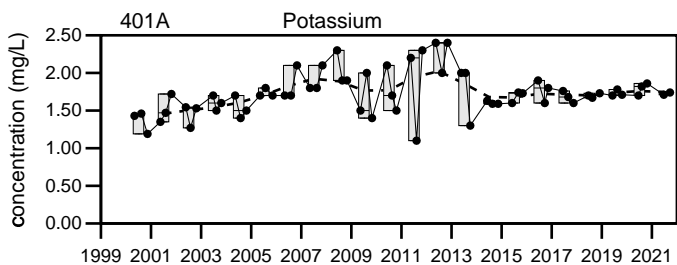
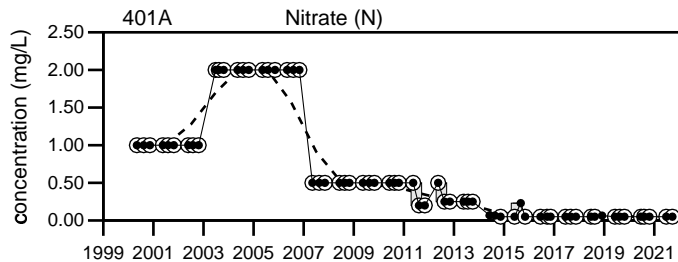
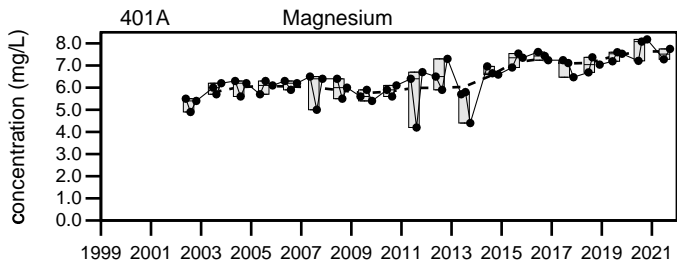
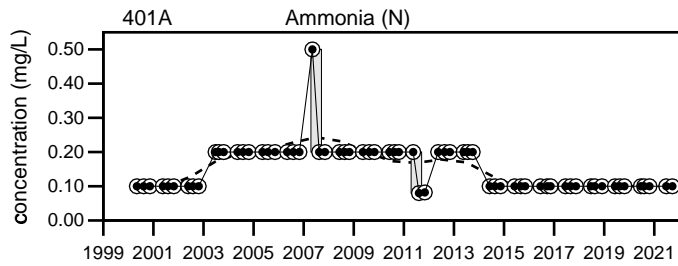
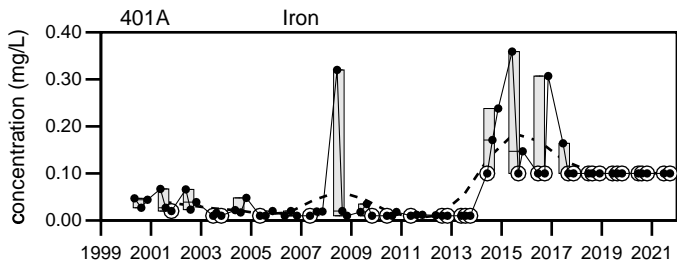


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
401A

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill 401A

Sevee & Maher Engineers, Inc.

Well Description

Well located downgradient to the southwest of the landfill.

Screen Interval: **12.5 ft. to 22.5 ft.**

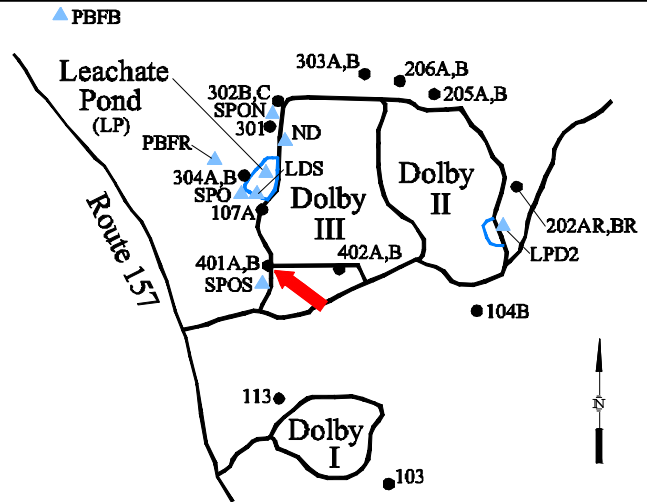
Sampled: **2 Times Annually**

Sampled Since: **Jun-90**

Material Screened: **Glacial Till**

Well Condition: **Good**

Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		358	362		291	to 438	370 ± 3.3		63
Dissolved Oxygen (mg/L)		0.7	0.2		0.1	to 5.6	0.86 ± 0.12		62
Total Dissolved Solids (mg/L)		240	220		150	to 352	220 ± 3.9		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.015	0.0064 ± 0.000		61
Calcium (mg/L)		66	62		23.6	to 70	54 ± 1.3		57
Manganese (mg/L)		0.27	0.416		0.01 U	to 0.873	0.3 ± 0.02		63
pH (STU)		7.5	7.6		7	to 8.26	7.9 ± 0.029		63
Alkalinity (CaCO3) (mg/L)		220	220		92.9	to 300	150 ± 5.2		63
Ca-mg Hardness (CaCO3) (mg/L)		204	197		77.8	to 217	160 ± 3.9		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		220	220		83	to 240	150 ± 5.2		63
Sodium (mg/L)		13.9	14.1		10.8	to 17	14 ± 0.17		63
Chloride (mg/L)		3.4	3.2		2.2	to 30.1	13 ± 0.98		63
Iron (mg/L)		0.1 U	0.1 U		0.005	to 0.731	0.076 ± 0.016		63
Magnesium (mg/L)		9.65	10.3		6.2	to 10.8	7.9 ± 0.15		57
Potassium (mg/L)		1.96	2.03		1.34	to 3.8	2 ± 0.053		63
Sulfate (mg/L)		12	11		11	to 35	26 ± 0.83		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U	to 30	3.5 ± 0.65		63
Turbidity (field) (NTU)		0.3	0.6		0	to 20.3	1.5 ± 0.41		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.5 U	0.16 ± 0.009		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.69 ± 0.092		63
Organic Carbon (mg/L)		1 U	1 U		0.99	to 3.7	1.3 ± 0.074		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

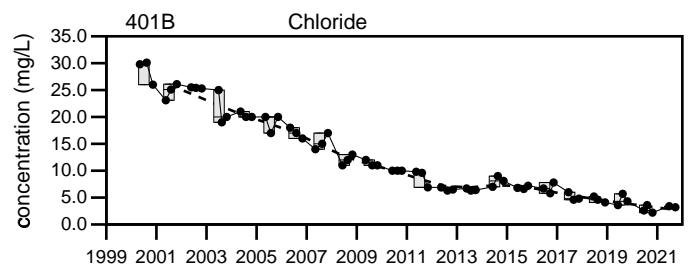
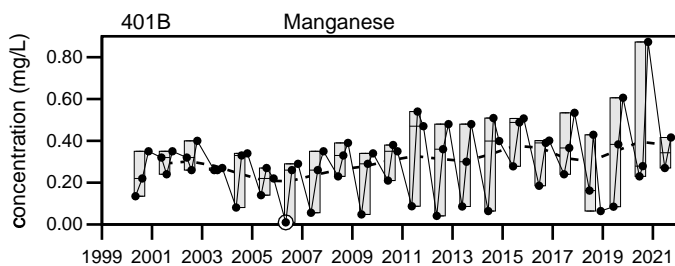
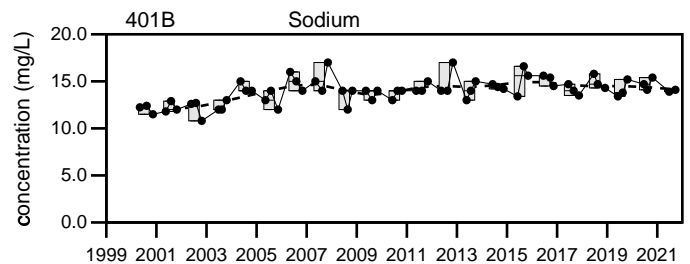
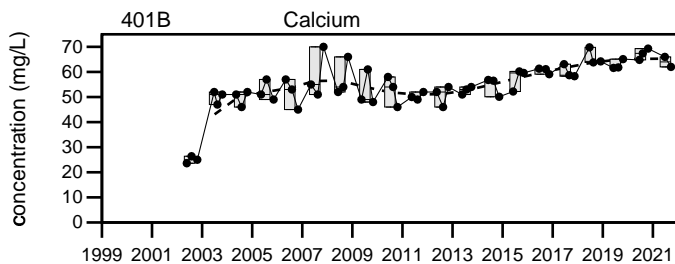
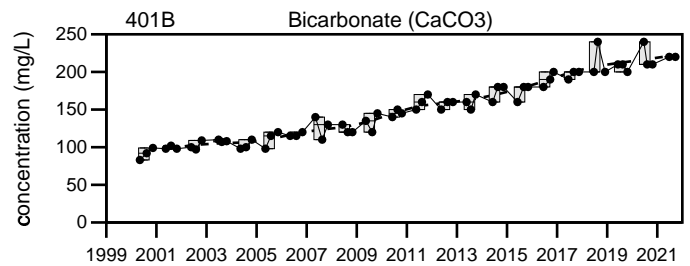
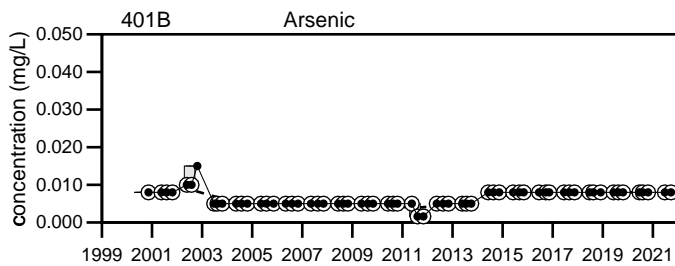
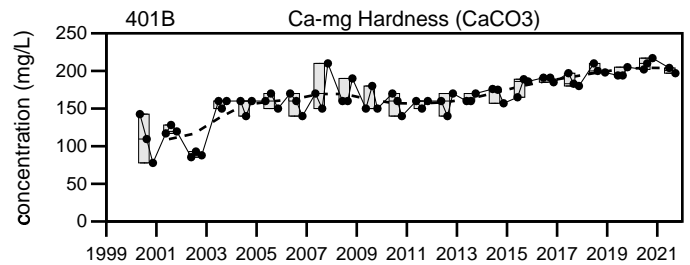
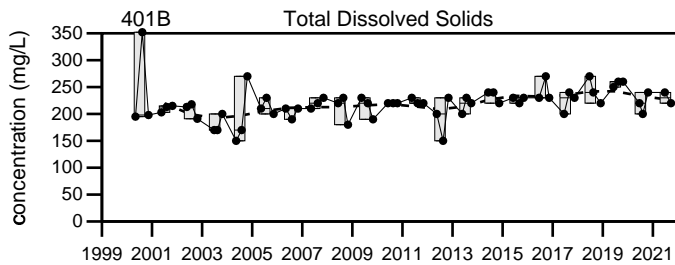
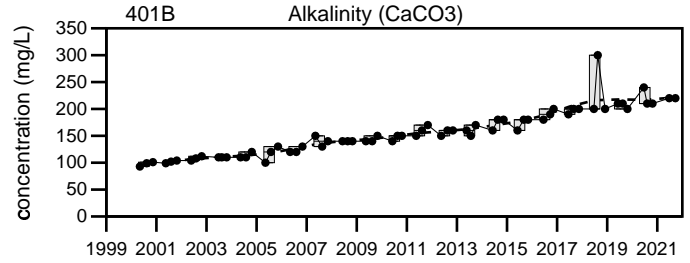
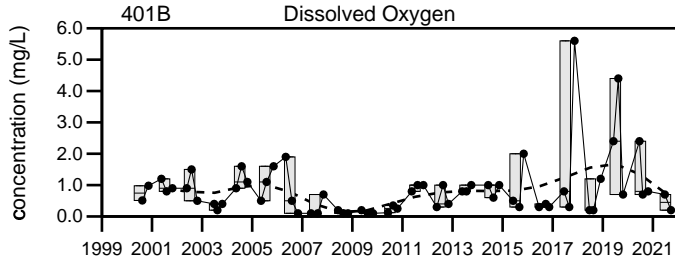
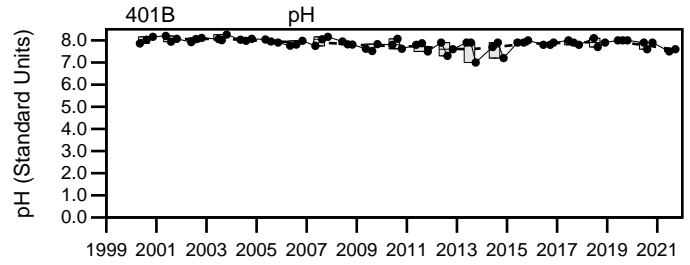
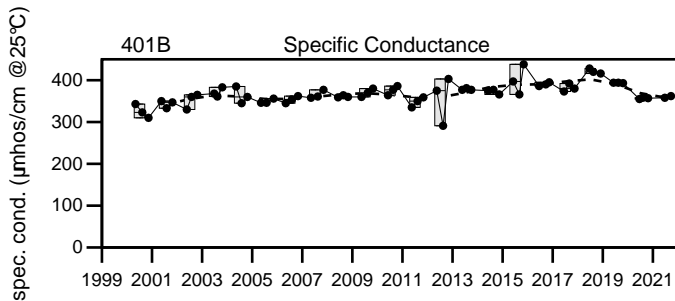
Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

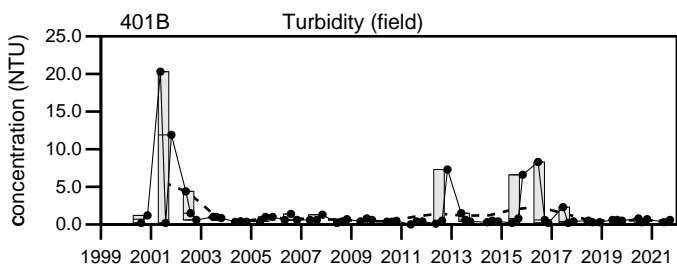
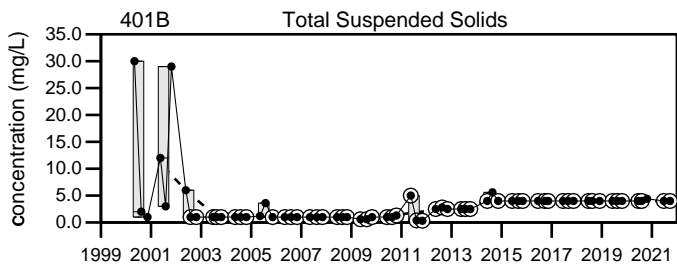
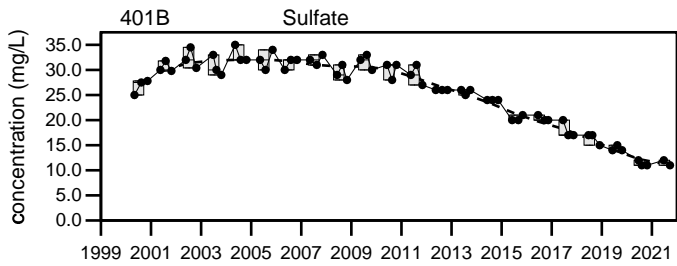
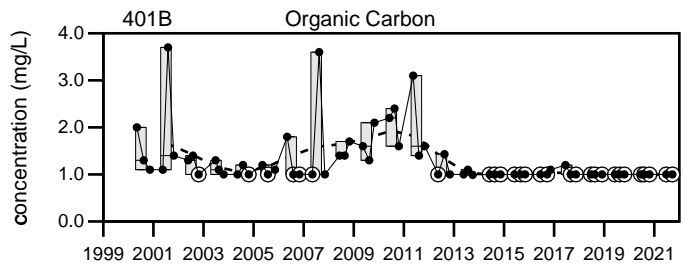
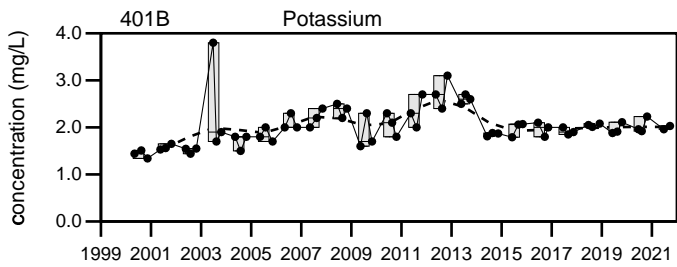
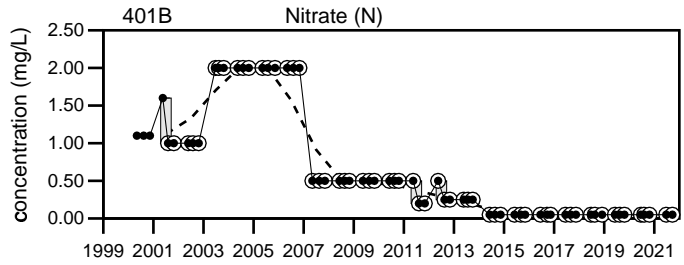
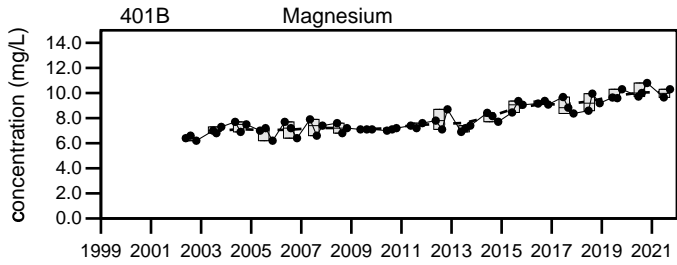
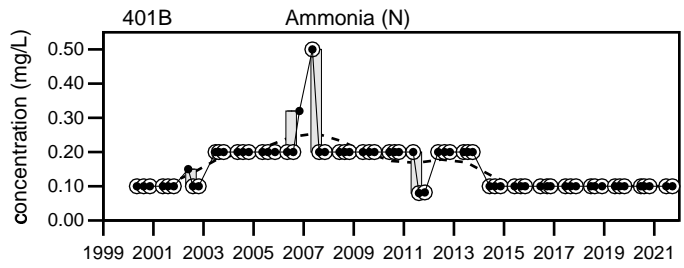
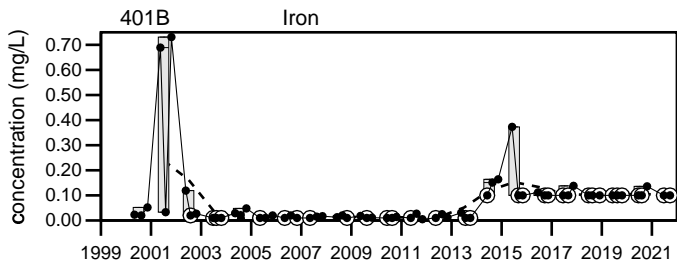
Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
401B



LEGEND

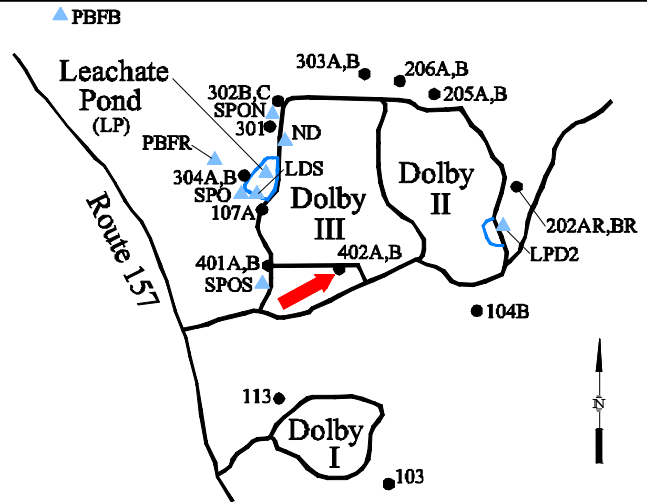
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
401B

Well Description

Well located cross-gradient to south of the Dolby III Landfill.

Screen Interval: **50.2 ft. to 60.2 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-90**
 Material Screened: **Bedrock**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		388	378		194	to 439	290 ± 8.1		63
Dissolved Oxygen (mg/L)		1.3	1.5		0.1	to 6.8	1.6 ± 0.17		62
Total Dissolved Solids (mg/L)		230	220		81	to 650	170 ± 9.2		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0035	to 0.019	0.0067 ± 0.000		61
Calcium (mg/L)		↑58.9	54.8		14.3	to 57.7	37 ± 1.2		57
Manganese (mg/L)		0.201	0.179		0.04	to 0.32	0.13 ± 0.006		63
pH (STU)		7.5	7.3		7.1	to 8.3	7.8 ± 0.029		63
Alkalinity (CaCO3) (mg/L)		160	170		81	to 650	110 ± 8.9		63
Ca-mg Hardness (CaCO3) (mg/L)		↑211	203		57.4	to 206	130 ± 4.7		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		160	170		76	to 650	110 ± 9		63
Sodium (mg/L)		↑10	↑9.94		5.6	to 9.86	7.6 ± 0.15		63
Chloride (mg/L)		39	37		4.4	to 40	23 ± 1.4		63
Iron (mg/L)		↑0.322	0.175		0.02 U	to 0.228	0.1 ± 0.005		63
Magnesium (mg/L)		15.6	↑16.1		5.6	to 15.8	9.8 ± 0.33		57
Potassium (mg/L)		1 U	1 U		0.53	to 1	0.93 ± 0.019		63
Sulfate (mg/L)		7.2	6.4		4.5	to 13	8.1 ± 0.18		63
Total Suspended Solids (mg/L)		4 U	4 U		0.32 U	to 5 U	2.3 ± 0.18		63
Turbidity (field) (NTU)		0.3	0.4		0	to 3.6	0.55 ± 0.068		62
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.5 U	0.16 ± 0.01		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.7 ± 0.089		63
Organic Carbon (mg/L)		2.3	1.9		1 U	to 3.2	1.4 ± 0.052		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

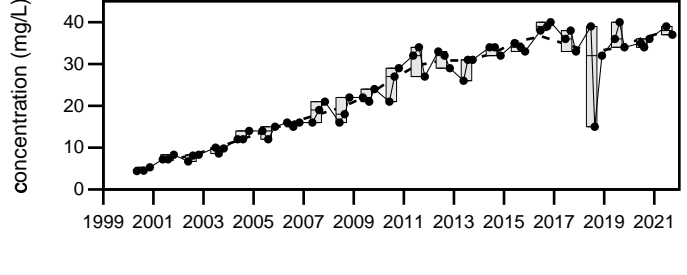
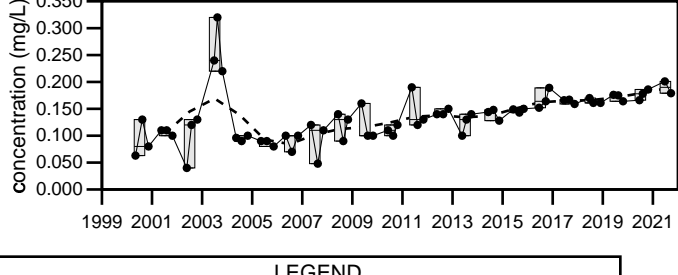
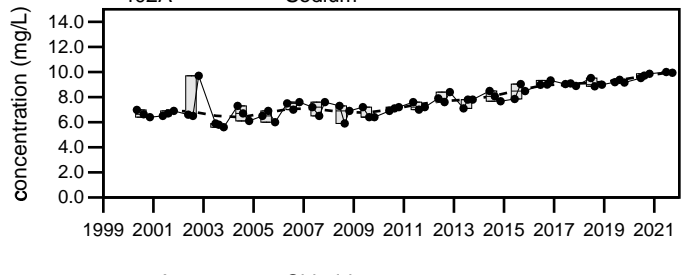
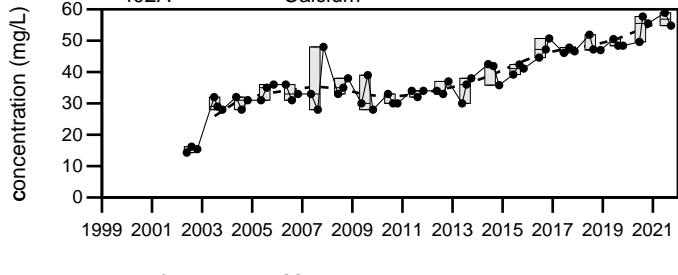
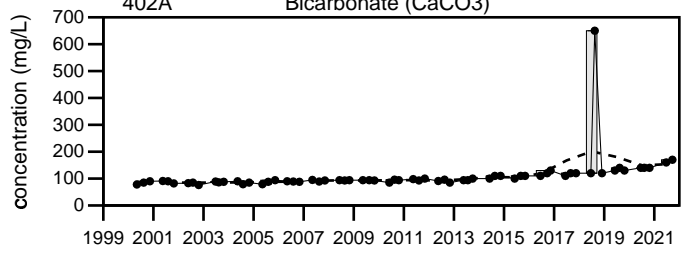
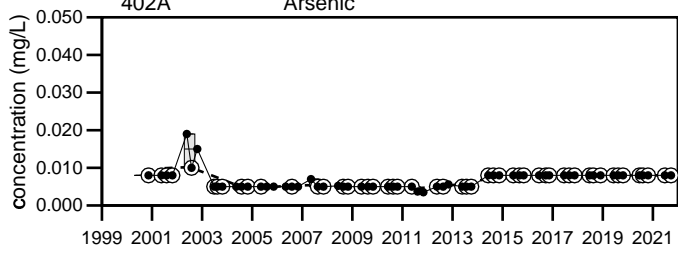
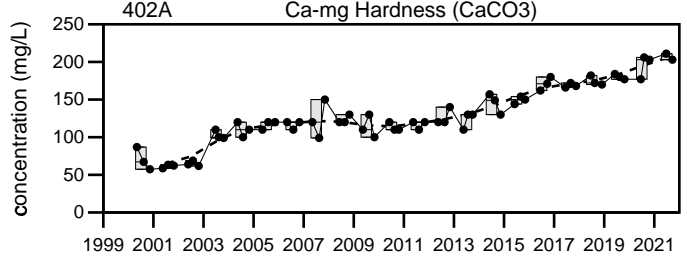
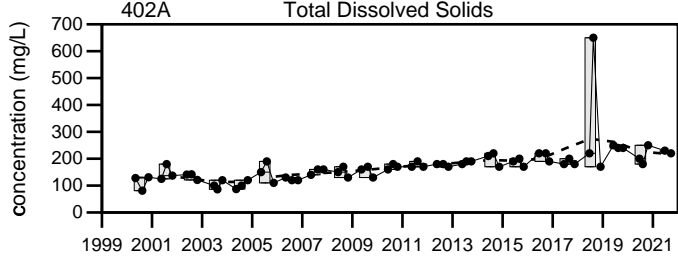
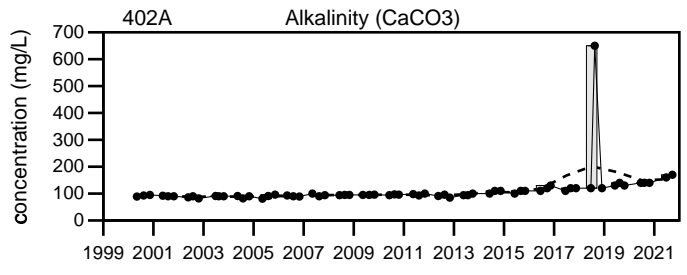
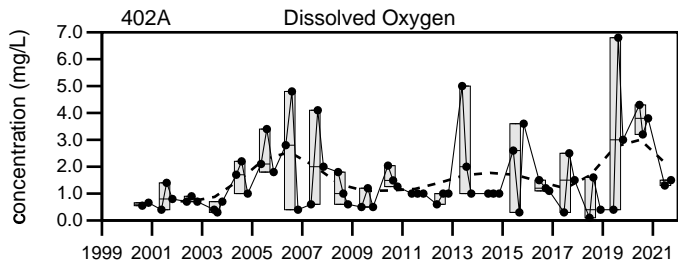
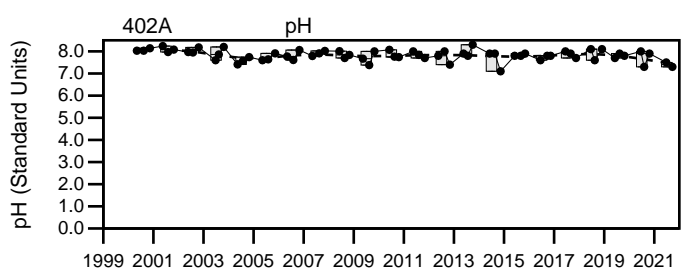
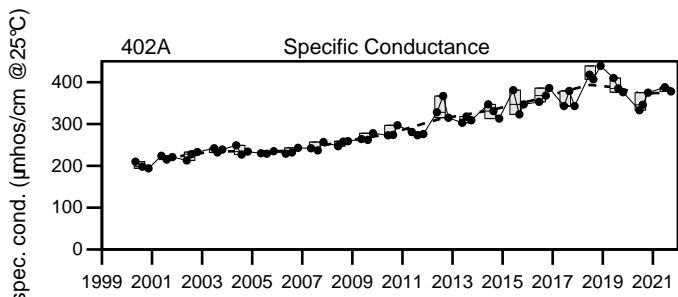
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

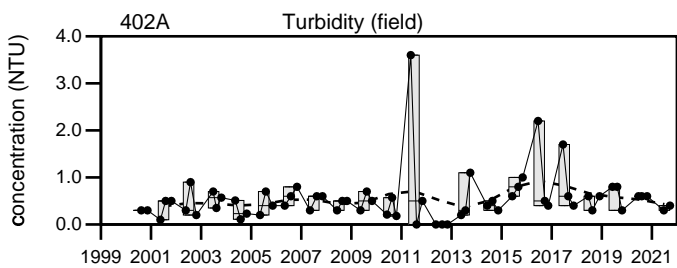
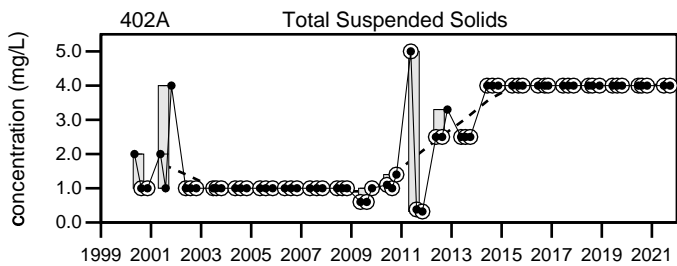
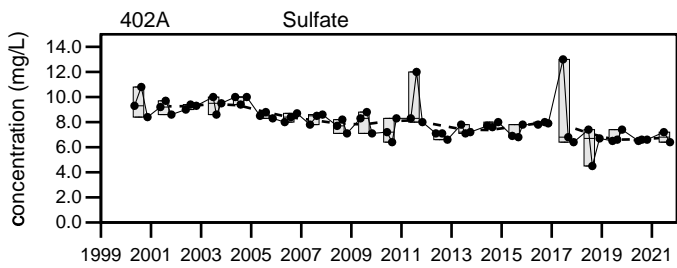
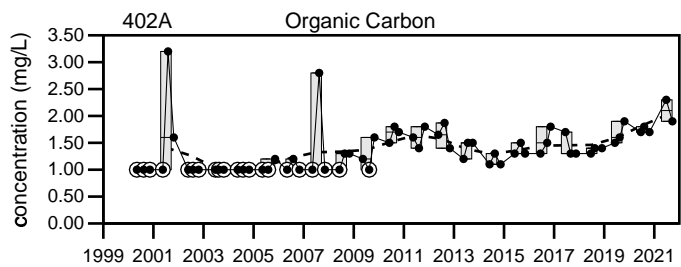
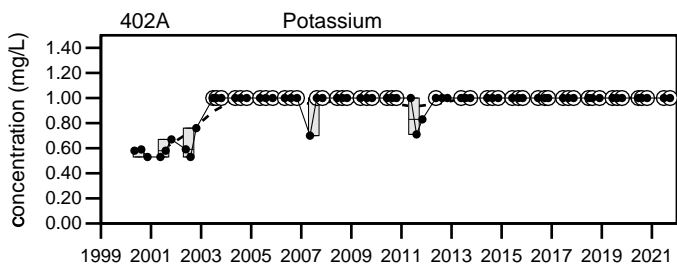
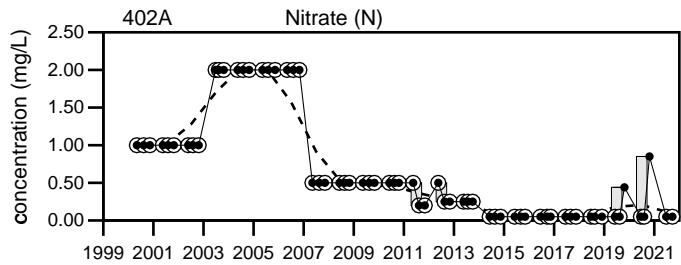
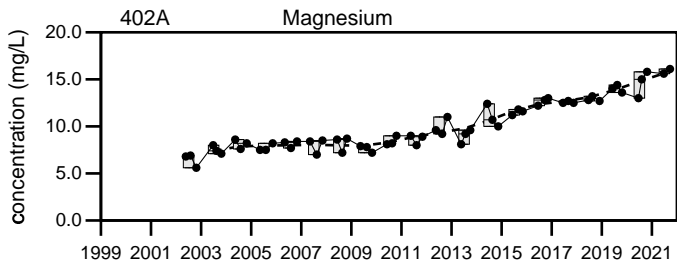
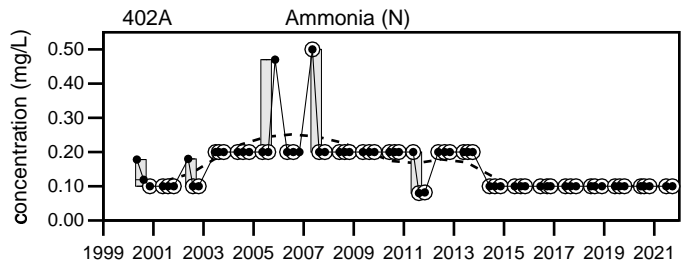
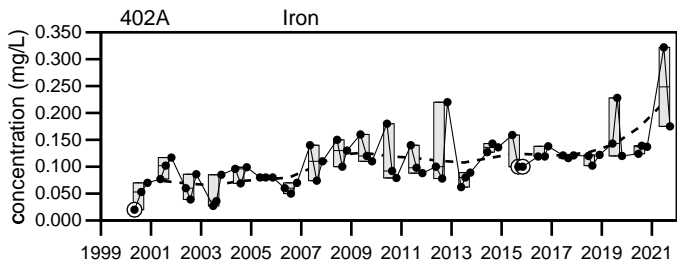


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
402A

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
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- - Sample Event
- ⊙ - BDL

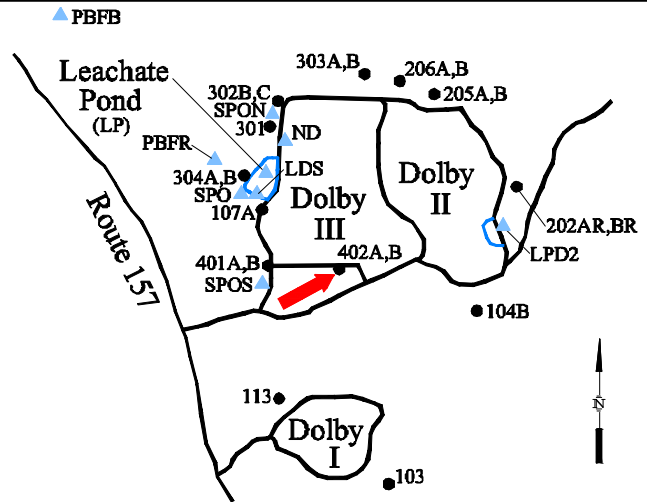
Dolby Landfill 402A

Sevee & Maher Engineers, Inc.

Well Description

Well located cross-gradient of Cells 3A and 3B to south of the Dolby III Landfill.

Screen Interval: **10 ft. to 20 ft.**
 Sampled: **2 Times Annually**
 Sampled Since: **Jun-90**
 Material Screened: **Glacial Till**
 Well Condition: **Good**
 Sampling Method: **Low Flow (Initiated Aug. 2000)**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)	↓878	894	894		880 to 2180		1300 ± 44		63
Dissolved Oxygen (mg/L)	0.9	0.5	0.5		0.1 to 6.1		0.71 ± 0.11		62
Total Dissolved Solids (mg/L)	590	570	570		170 to 1308		740 ± 27		63
Arsenic (mg/L)	0.008 U	0.008 U	0.008 U		0.0016 U to 0.044		0.0069 ± 0.000		61
Calcium (mg/L)	123	115	115		110 to 266.8		150 ± 4.8		57
Manganese (mg/L)	2.31	1.83	1.83		0.07 to 5.04		0.96 ± 0.11		63
pH (STU)	6.9	6.8	6.8		6.5 to 7.3		6.9 ± 0.018		63
Alkalinity (CaCO3) (mg/L)	600	600	600		140 to 1148		700 ± 23		63
Ca-mg Hardness (CaCO3) (mg/L)	563	554	554		460 to 1137.5		710 ± 20		63
Bicarbonate Alkalinity (CaCO3) (mg/L)	600	600	600		140 to 1100		680 ± 21		63
Sodium (mg/L)	24.3	24.8	24.8		24.3 to 84.14		40 ± 1.9		63
Chloride (mg/L)	11	11	11		4.6 to 122		32 ± 2.9		63
Iron (mg/L)	↑0.274	0.133	0.133		0.01 U to 0.27		0.059 ± 0.006		63
Magnesium (mg/L)	62	64.7	64.7		38 to 100		72 ± 1.5		57
Potassium (mg/L)	12.2	14.3	14.3		3.43 to 35		11 ± 0.84		63
Sulfate (mg/L)	7.3	6.5	6.5		1.5 to 30.9		7.7 ± 0.47		63
Total Suspended Solids (mg/L)	4 U	6	6		0.32 U to 91		4 ± 1.4		63
Turbidity (field) (NTU)	0.5	0.8	0.8		0 to 2.8		0.41 ± 0.05		62
Ammonia (N) (mg/L)	0.1 U	0.16	0.16		0.08 U to 4.6		0.23 ± 0.071		63
Nitrate (N) (mg/L)	0.05 U	0.05 U	0.05 U		0.05 U to 3.8		0.83 ± 0.12		63
Organic Carbon (mg/L)	4.9	4.6	4.6		4.3 to 211.2		13 ± 3.3		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

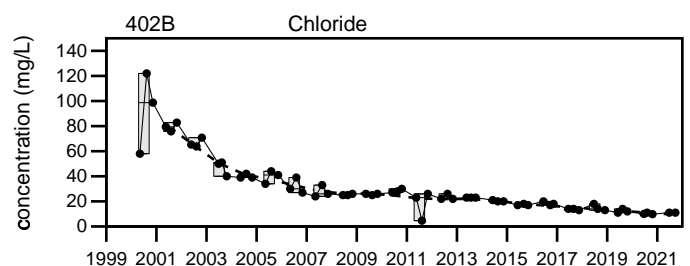
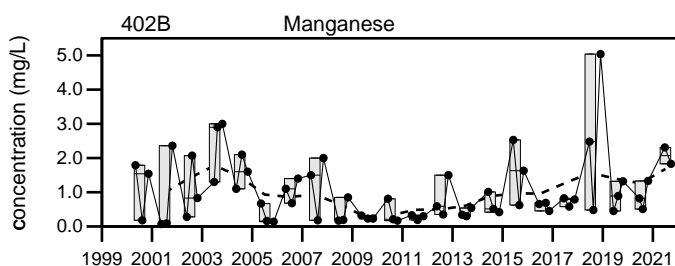
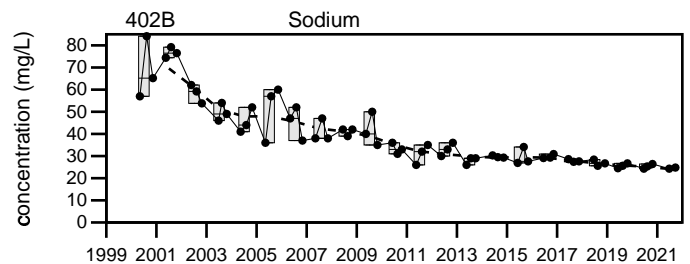
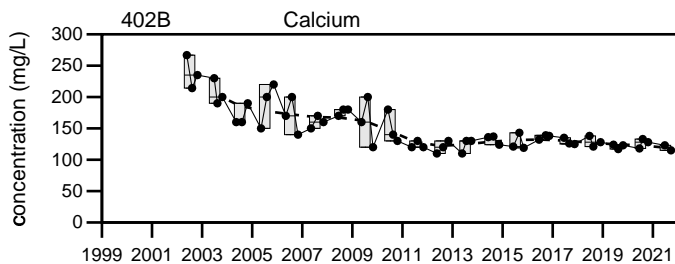
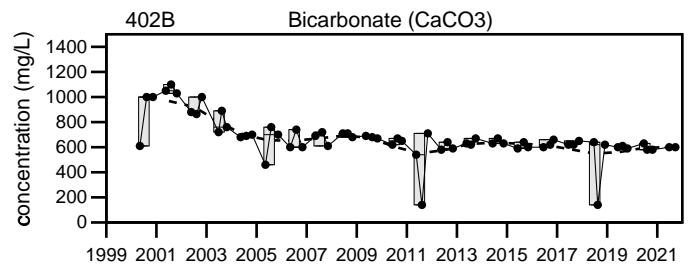
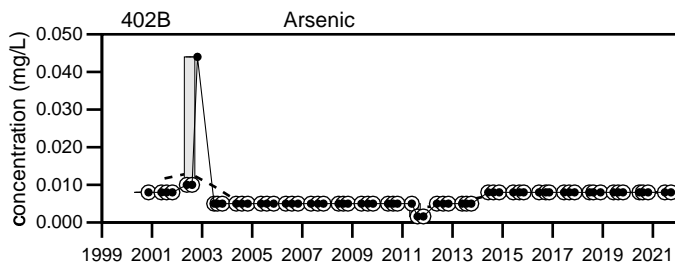
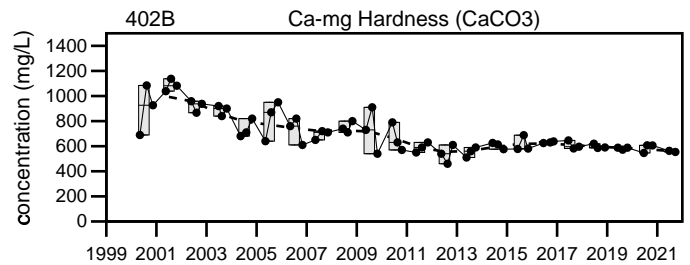
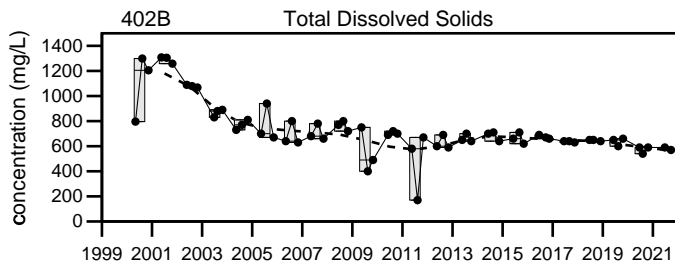
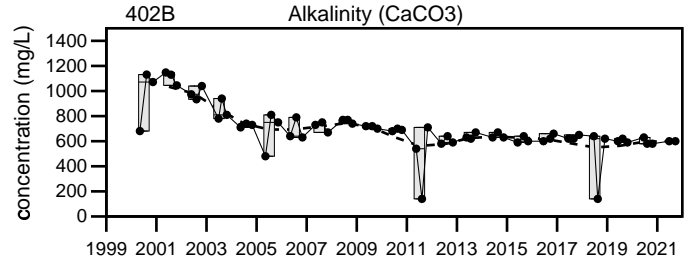
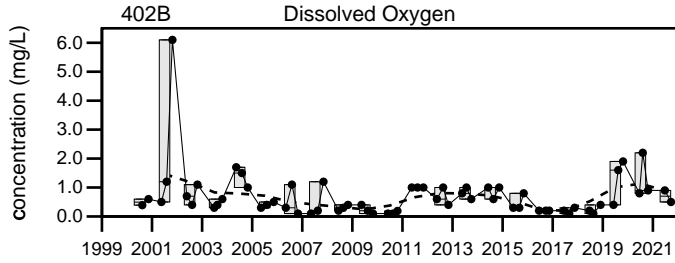
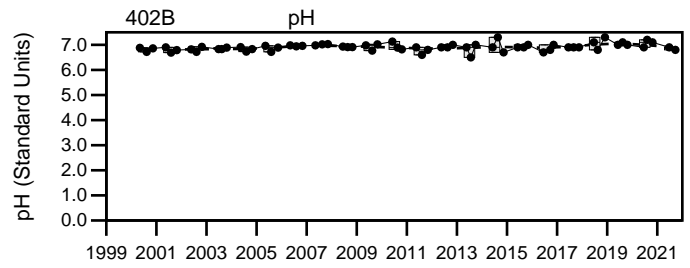
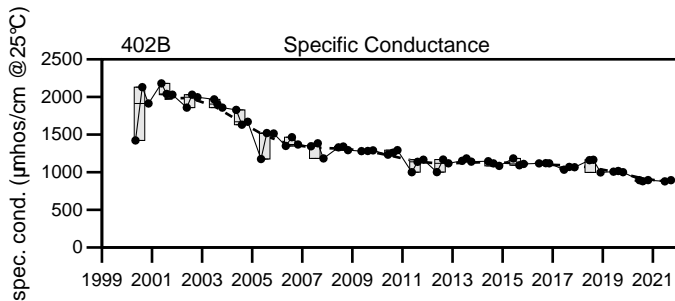
Applicable Limits:

Nitrate (N) RAGGwRs=32 mg/L, MEG16=10 mg/L, MCL=10 mg/L, Ammonia (N) MEG16=30 mg/L, Sodium MEG16=20 mg/L, Manganese RAGGwRs=0.43 mg/L, MEG16=0.3 mg/L, Iron RAGGwRs=14 mg/L, MEG16=5 mg/L, Arsenic RAGGwRs=0.00052 mg/L, MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

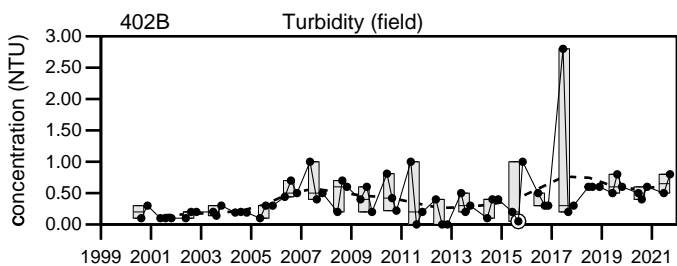
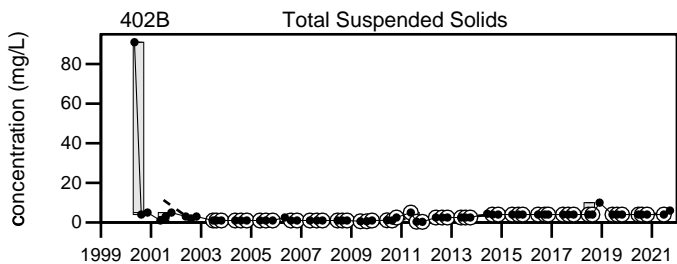
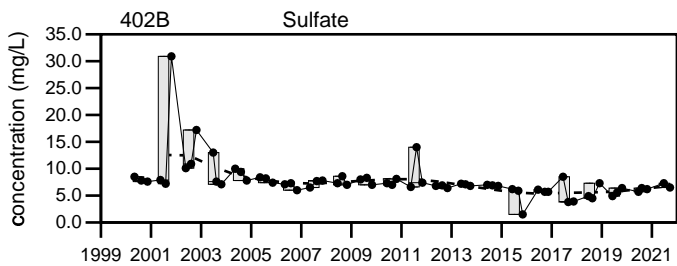
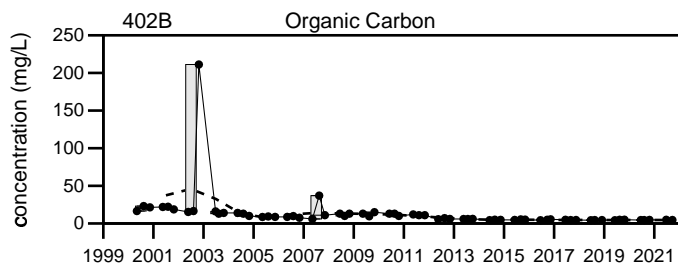
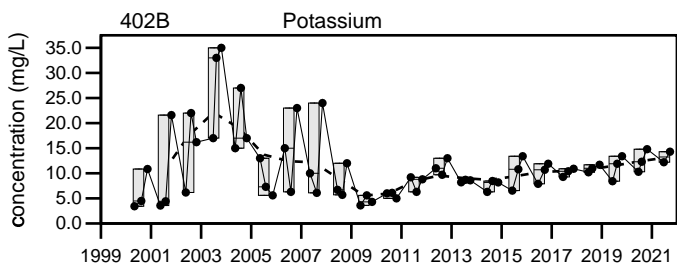
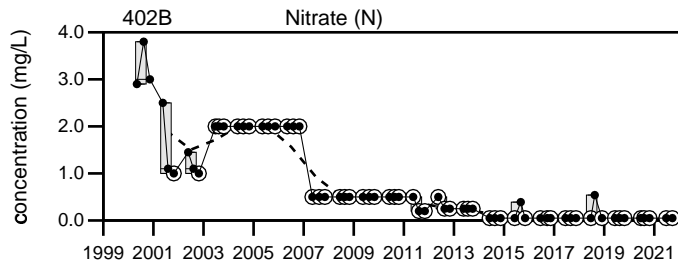
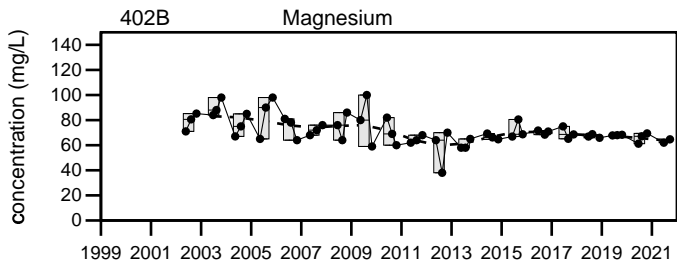
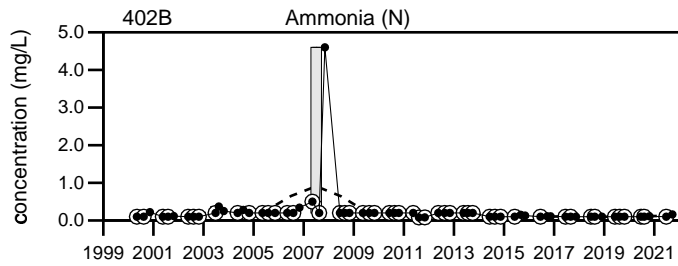
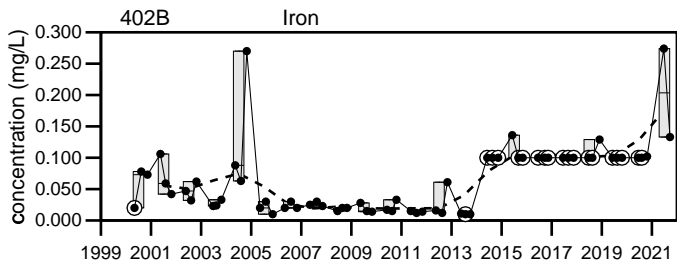


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
402B

Sevee & Maher Engineers, Inc.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
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Dolby Landfill
402B

Sevee & Maher Engineers, Inc.

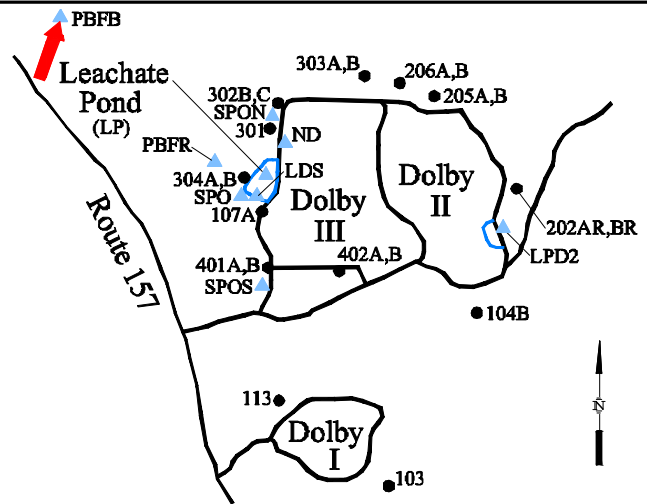
Well Description

Background surface water sample from Partridge Brook Flowage.

Sampled: **2 Times Annually**

Sampled Since: **May-00**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		51	↓5.7		27	to 322	56 ± 4.9		62
Dissolved Oxygen (mg/L)		5.1	3.5		2.3	to 11.4	6.2 ± 0.26		59
Total Dissolved Solids (mg/L)		45	46		8	to 114	50 ± 2.6		63
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.01 U	0.0064 ± 0.000		61
Calcium (mg/L)		5.34	5.84		2.5	to 8.1	5 ± 0.16		57
Manganese (mg/L)		0.0734	0.0864		0.016	to 1.58	0.24 ± 0.042		63
pH (STU)		7.4	6.2		5.8	to 9.02	7.4 ± 0.086		63
Alkalinity (CaCO3) (mg/L)		18	18		1 U	to 200	17 ± 3.1		63
Ca-mg Hardness (CaCO3) (mg/L)		20.5	21.6		10 U	to 30.1	18 ± 0.63		63
Bicarbonate Alkalinity (CaCO3) (mg/L)		18	18		1 U	to 190	17 ± 2.9		63
Sodium (mg/L)		1.98	1.65		1 U	to 2.2	1.6 ± 0.04		63
Chloride (mg/L)		2.3	2 U		0.86	to 4.1	2.3 ± 0.096		63
Iron (mg/L)		0.497	0.904		0.16	to 4	0.78 ± 0.093		63
Magnesium (mg/L)		1.74	1.7		1 U	to 2.09	1.4 ± 0.045		57
Potassium (mg/L)		1 U	1 U		0.146	to 1.4	0.9 ± 0.036		63
Sulfate (mg/L)		1 U	1 U		0.67	to 28	3.2 ± 0.54		63
Total Suspended Solids (mg/L)		6.8	16		1 U	to 140	8.4 ± 2.4		63
Turbidity (field) (NTU)		1.2	0.6		0.4	to 19.8	2.3 ± 0.34		60
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.08 U	to 0.98	0.16 ± 0.015		63
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.72 ± 0.092		63
Organic Carbon (mg/L)		10	15		6.3	to 38	12 ± 0.67		63

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

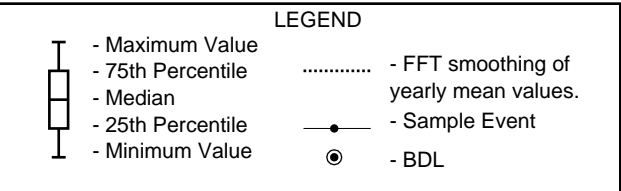
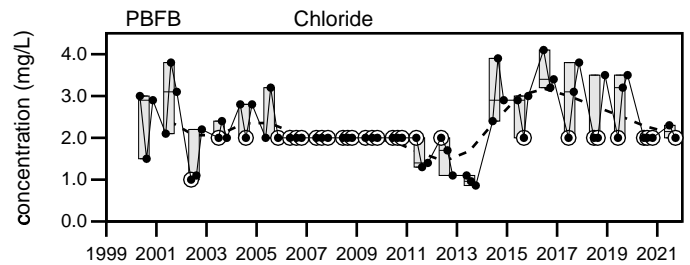
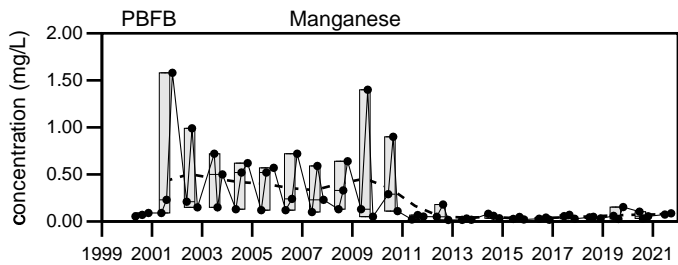
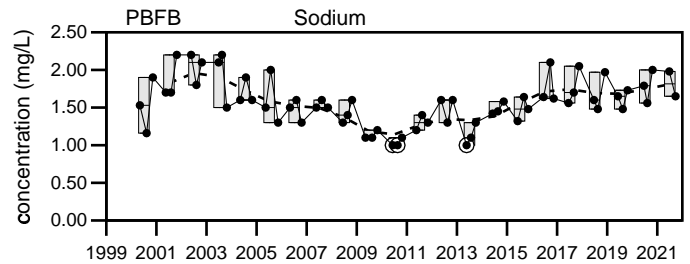
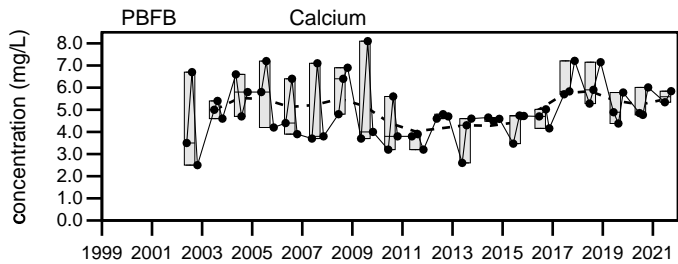
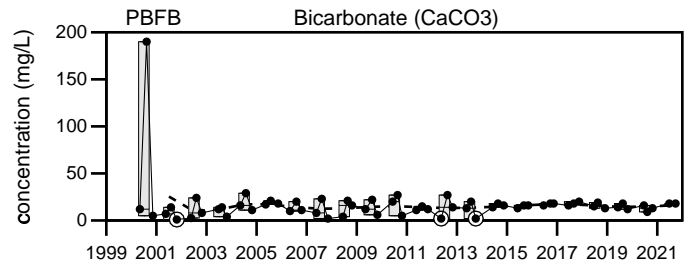
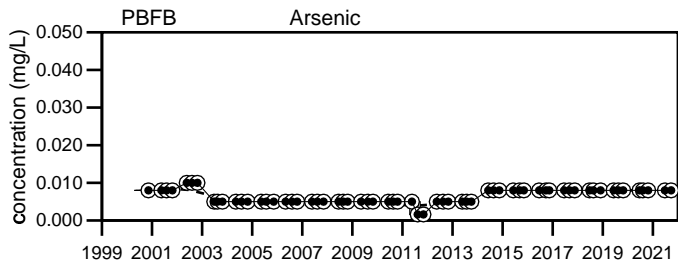
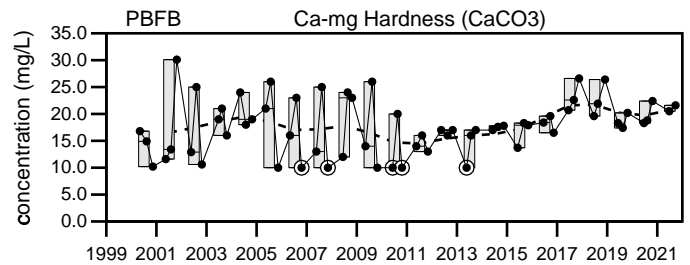
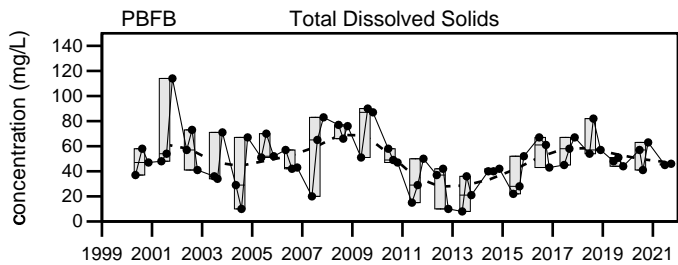
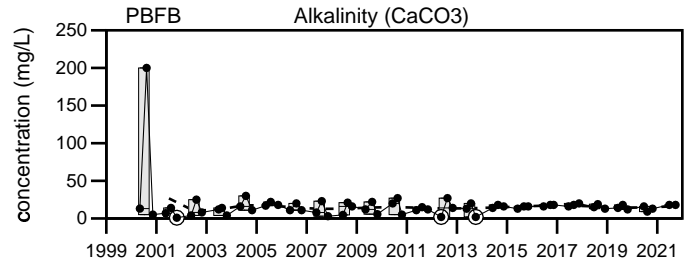
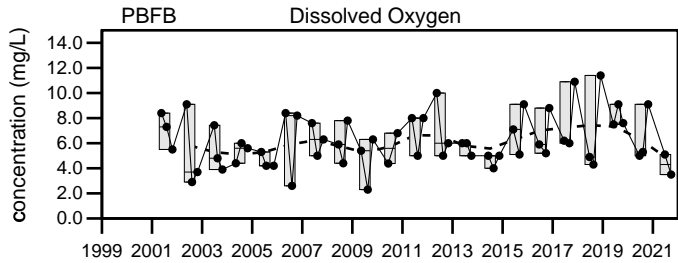
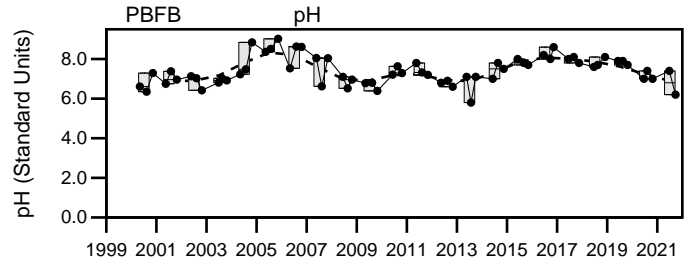
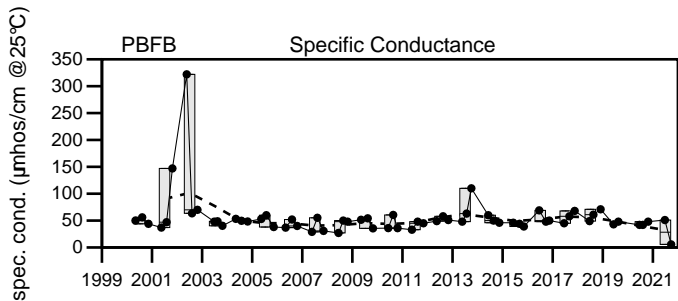
Chloride MFCCC=230 mg/L, Ammonia (N) MFCCC=1.4 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

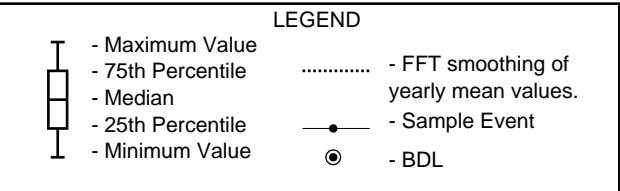
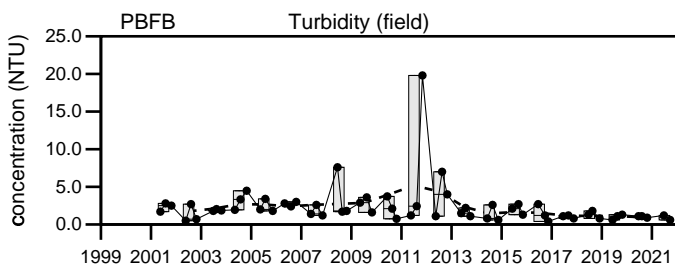
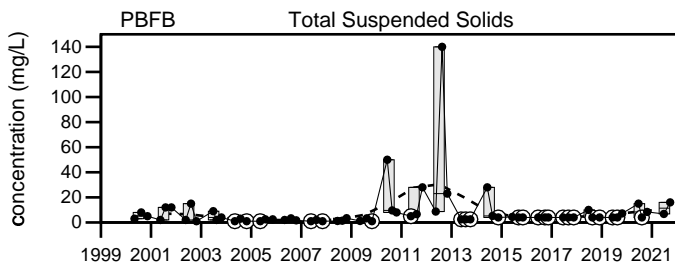
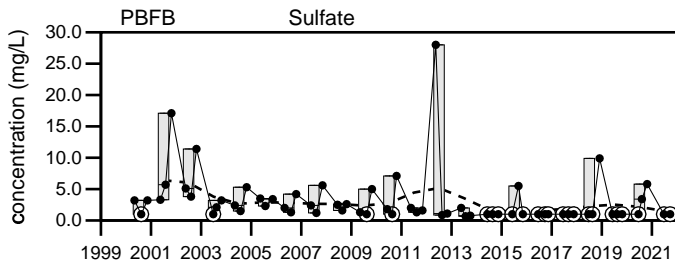
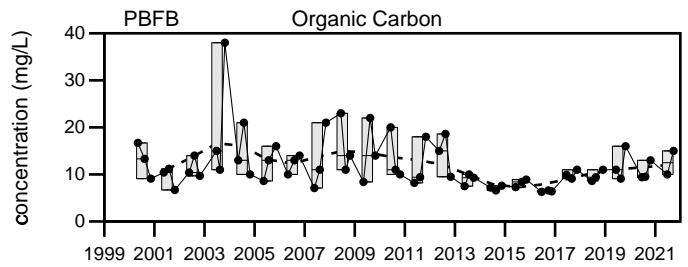
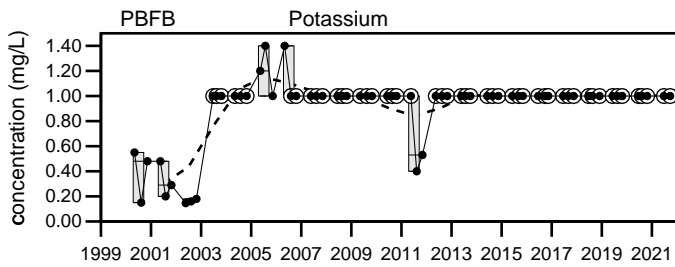
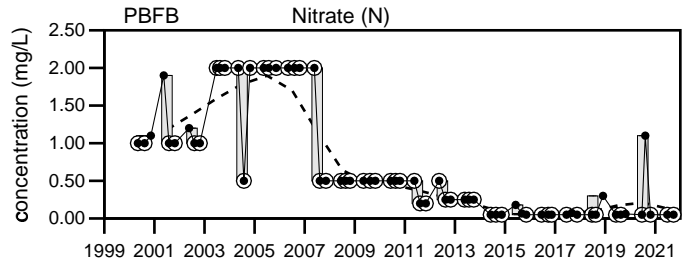
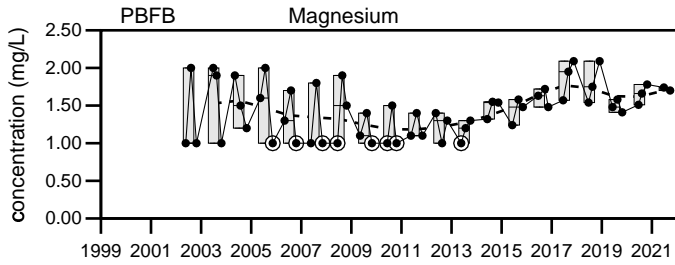
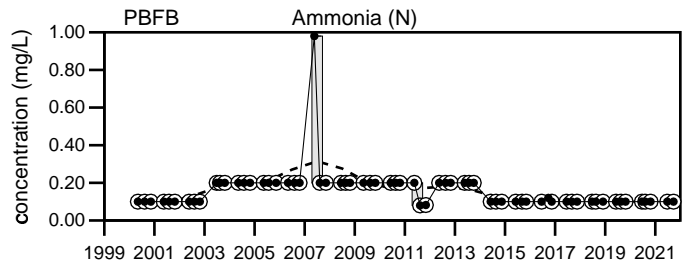
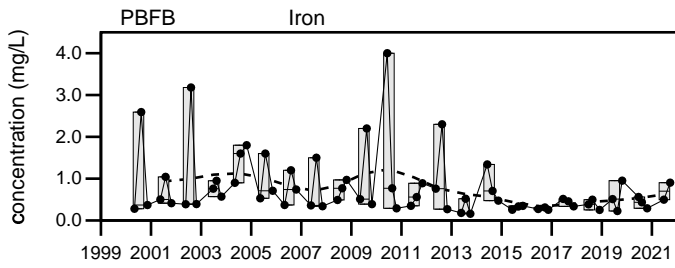
Q3= 9 - 2021



Dolby Landfill

PBFB

Sevee & Maher Engineers, Inc.



Dolby Landfill

PBFB

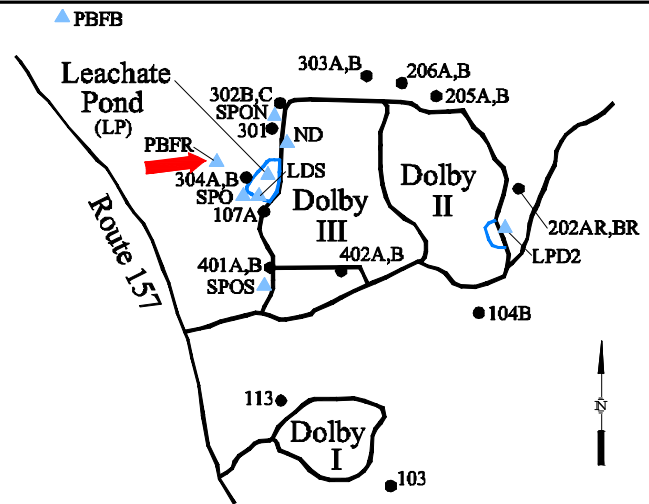
Sevee & Maher Engineers, Inc.

Well Description

Sample from the Partridge Bridge Flowage downgradient of the level spreader and the Dolby II and III Landfills.

Sampled: **2 Times Annually**
 Sampled Since: **May 2012**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		53	54		45	332	88 ± 11		26
Dissolved Oxygen (mg/L)		7.3	4.7		3.7	11.3	6.3 ± 0.38		26
Total Dissolved Solids (mg/L)		36	31		30	200	62 ± 6.4		27
Arsenic (mg/L)		0.008 U	0.008 U		0.005 U	0.008 U	0.0073 ± 0.000		27
Calcium (mg/L)		6.18	6.91		4.4	50.3	9.8 ± 1.7		27
Manganese (mg/L)		0.0911	0.0982		0.019	1.62	0.27 ± 0.074		27
pH (STU)		7.6	6.4		6.3	8.6	7.6 ± 0.12		26
Alkalinity (CaCO3) (mg/L)		20	28		5.1	45	23 ± 1.7		27
Ca-mg Hardness (CaCO3) (mg/L)		23.3	26		16	144	33 ± 4.7		27
Bicarbonate Alkalinity (CaCO3) (mg/L)		20	28		5.1	45	23 ± 1.7		27
Sodium (mg/L)		2.01	2.12		1.2	4.83	2.4 ± 0.19		27
Chloride (mg/L)		2 U	2 U		1	6.3	3.2 ± 0.27		27
Iron (mg/L)		0.264	0.155		0.088	3.15	0.52 ± 0.13		27
Magnesium (mg/L)		1.91	2.13		1.2	4.54	2 ± 0.12		27
Potassium (mg/L)		1 U	1 U		1 U	2	1.2 ± 0.054		27
Sulfate (mg/L)		1 U	1 U		0.82	89	7.9 ± 3.3		27
Total Suspended Solids (mg/L)		4 U	4 U		2.5 U	190	13 ± 6.9		27
Turbidity (field) (NTU)		0.8	0.7		0.1	11.6	2 ± 0.46		26
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.1 U	0.2 U	0.12 ± 0.008		27
Nitrate (N) (mg/L)		0.09	0.05 U		0.05 U	1.9	0.27 ± 0.074		27
Organic Carbon (mg/L)		11	8.7		3.9	16.9	8.3 ± 0.5		27
Copper (mg/L)		0.025 U	0.025 U		0.003 U	0.025 U	0.02 ± 0.002		27

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

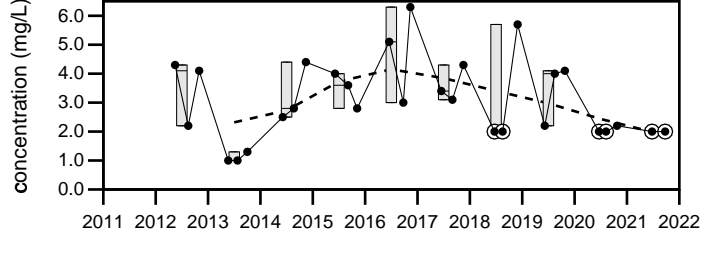
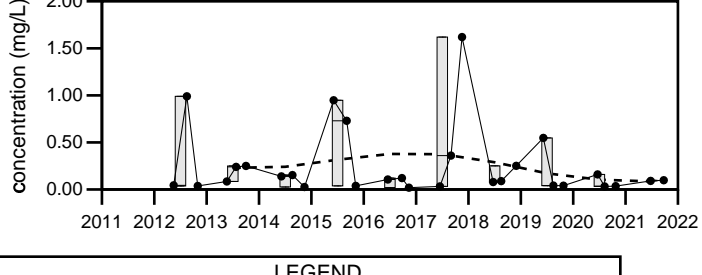
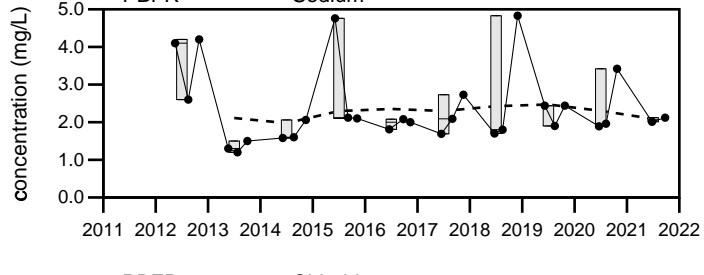
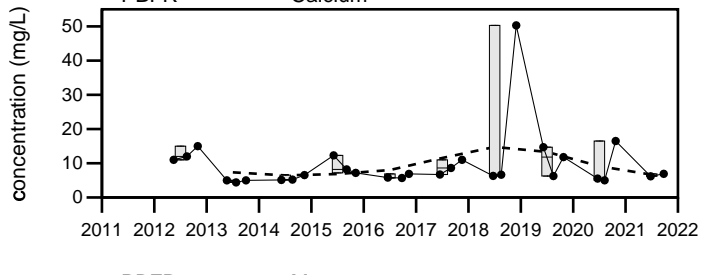
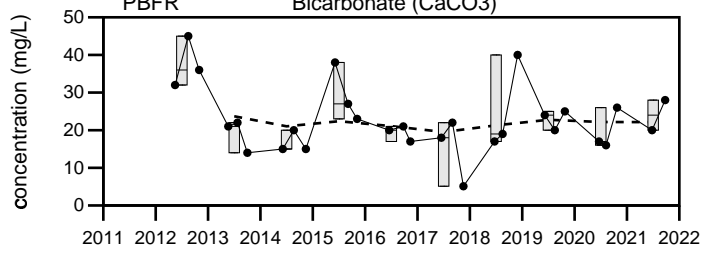
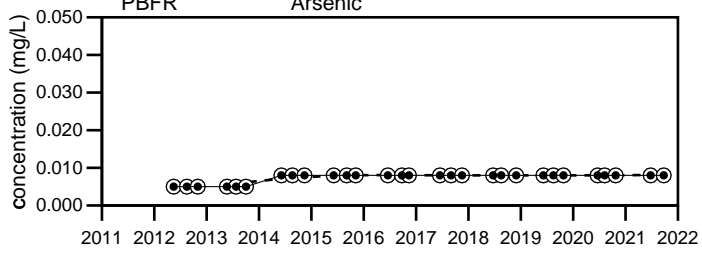
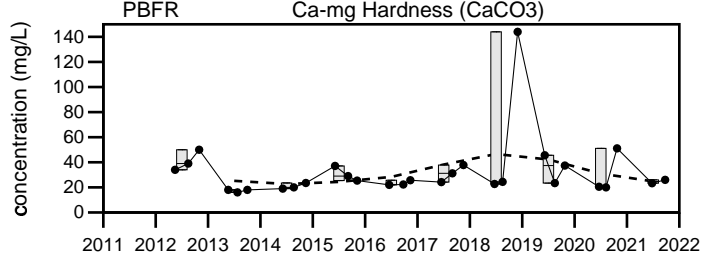
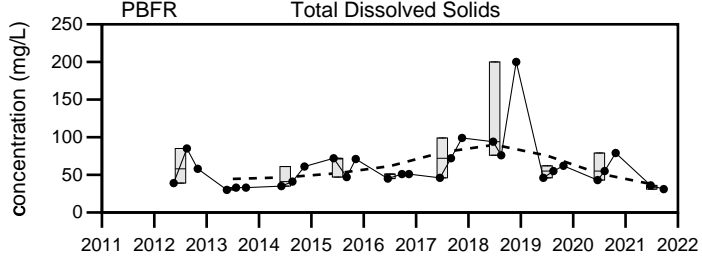
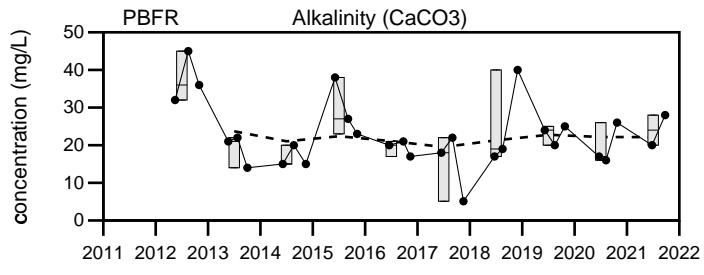
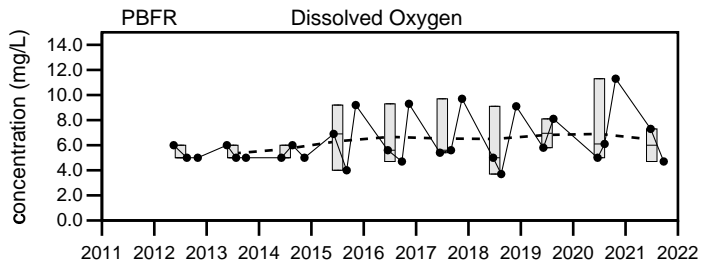
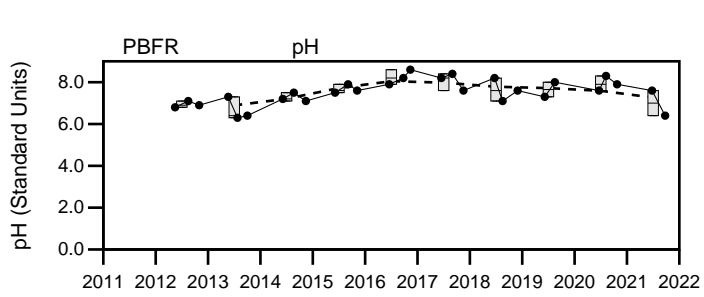
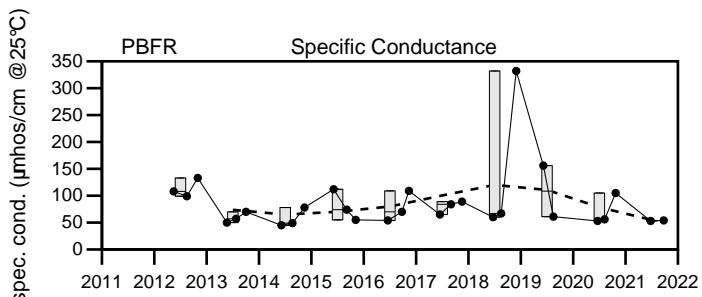
Applicable Limits:

Chloride MFCCC=230 mg/L, Ammonia (N) MFCCC=1.4 mg/L, Iron MFCCC=1 mg/L, Copper MFCCC=0.00236 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

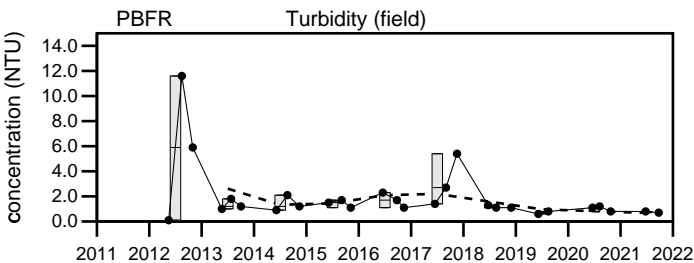
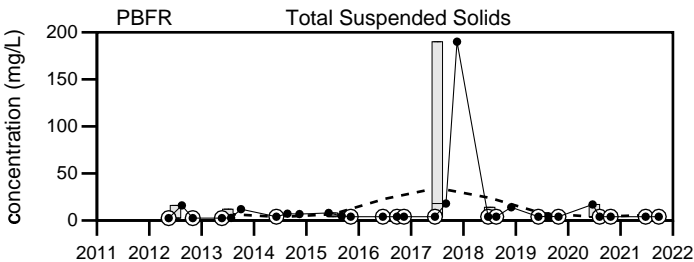
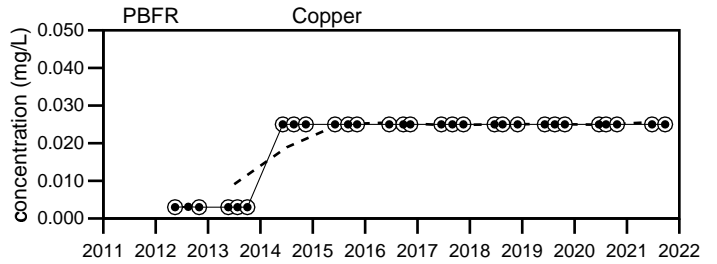
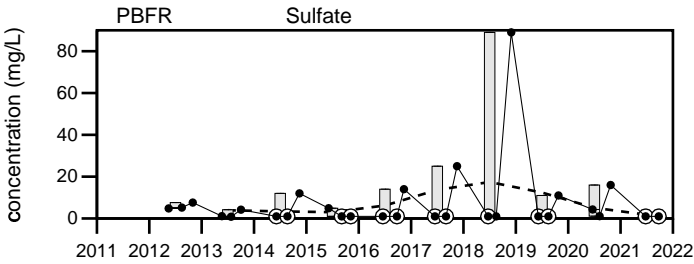
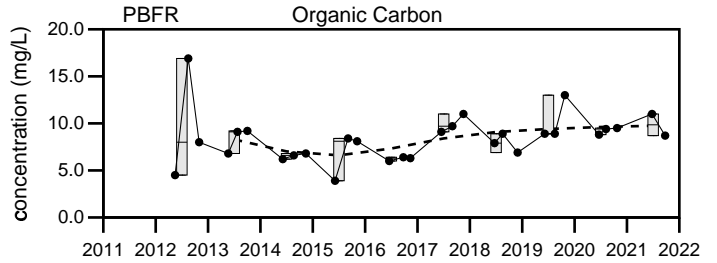
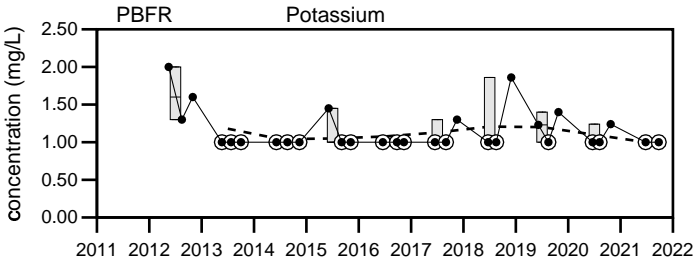
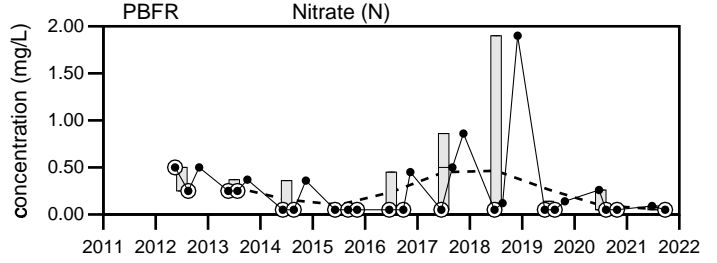
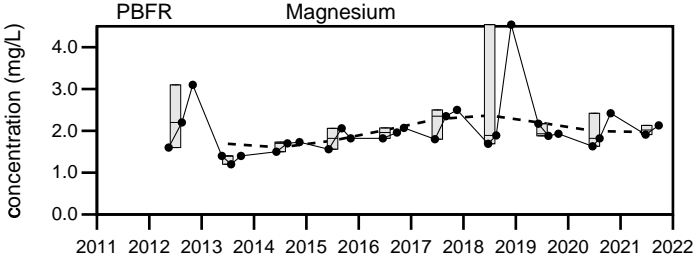
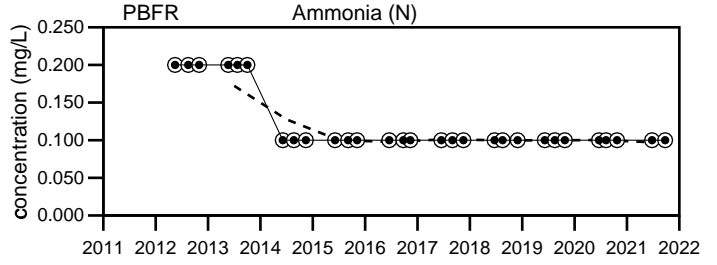
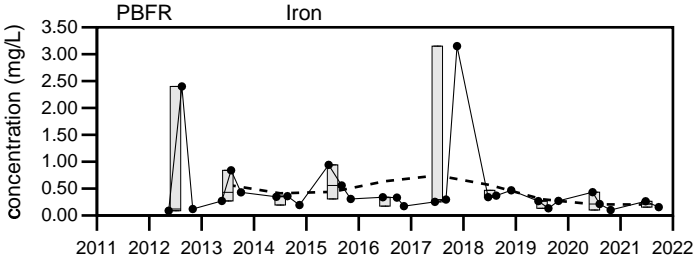
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
PBFR



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
PBFR

Sevee & Maher Engineers, Inc.

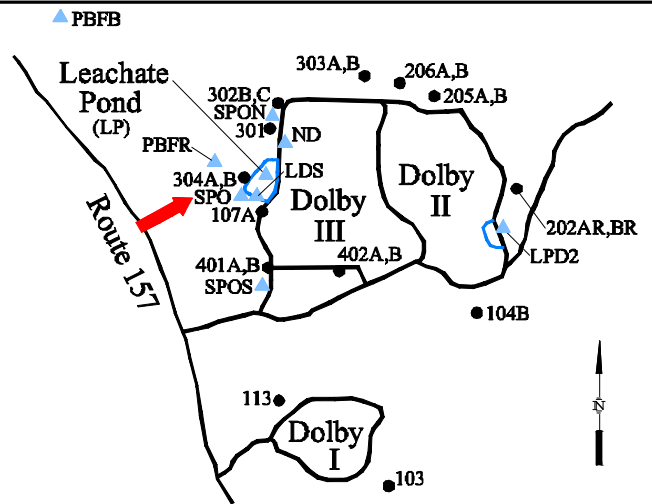
Well Description

Surface water from the detention pond outlet to the west of Dolby III.

Sampled: **2 Times Annually**

Sampled Since: **Mar-91**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		D	D		72	196	130 ± 8.1		21
Dissolved Oxygen (mg/L)		D	D		2.3	10	6.2 ± 0.49		21
Total Dissolved Solids (mg/L)		D	D		43	140	85 ± 5		21
Arsenic (mg/L)		D	D		0.005 U	0.008 U	0.0057 ± 0.000		21
Calcium (mg/L)		D	D		8.4	36	16 ± 1.7		21
Manganese (mg/L)		D	D		0.036	3.6	0.43 ± 0.17		21
pH (STU)		D	D		5.83	8.71	7.3 ± 0.16		21
Alkalinity (CaCO3) (mg/L)		D	D		21	77	42 ± 3.9		21
Ca-mg Hardness (CaCO3) (mg/L)		D	D		21	110	49 ± 5		21
Bicarbonate Alkalinity (CaCO3) (mg/L)		D	D		21	75	42 ± 3.7		21
Sodium (mg/L)		D	D		1.2	8.7	3.8 ± 0.43		21
Chloride (mg/L)		D	D		2 U	19	5.9 ± 0.88		21
Iron (mg/L)		D	D		0.3	5.7	1.4 ± 0.3		21
Magnesium (mg/L)		D	D		1 U	4.7	2 ± 0.2		21
Potassium (mg/L)		D	D		1 U	7	2.7 ± 0.35		21
Sulfate (mg/L)		D	D		1 U	15	5.5 ± 0.86		21
Total Suspended Solids (mg/L)		D	D		0.6 U	37	8.7 ± 2.2		21
Turbidity (field) (NTU)		D	D		0.6	12	3.3 ± 0.62		21
Ammonia (N) (mg/L)		D	D		0.1 U	0.21	0.18 ± 0.01		21
Nitrate (N) (mg/L)		D	D		0.05 U	2 U	0.81 ± 0.17		21
Organic Carbon (mg/L)		D	D		9.3	18	13 ± 0.58		21

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

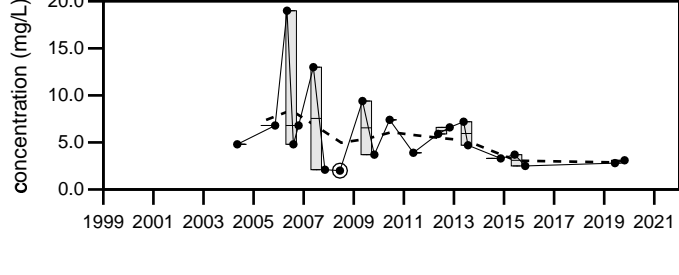
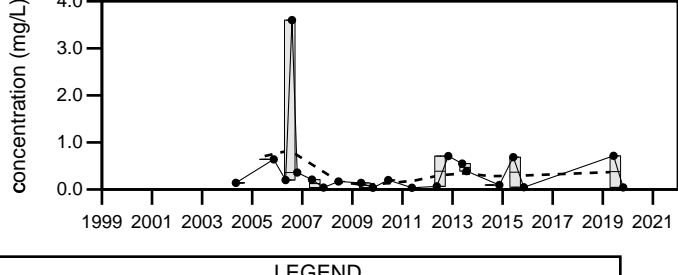
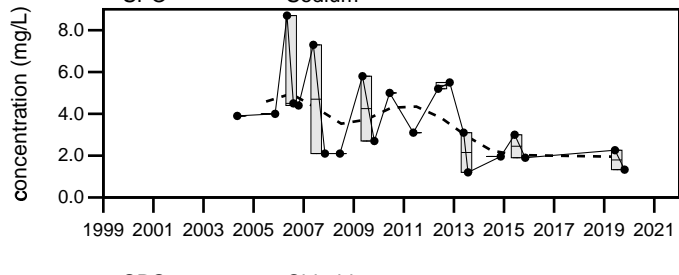
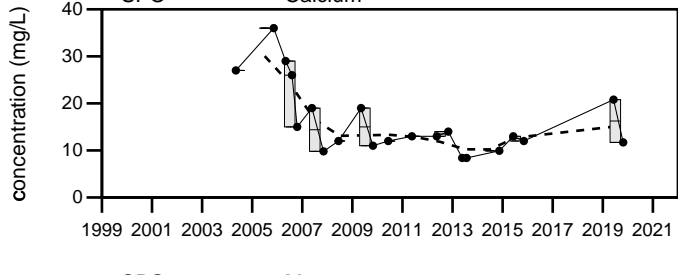
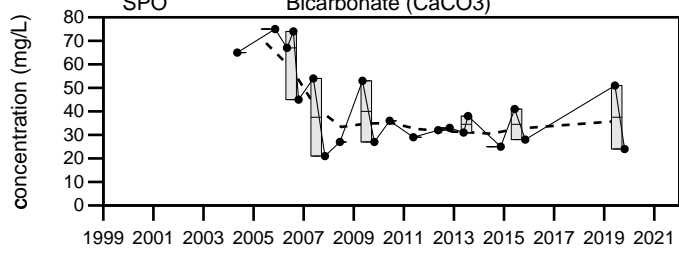
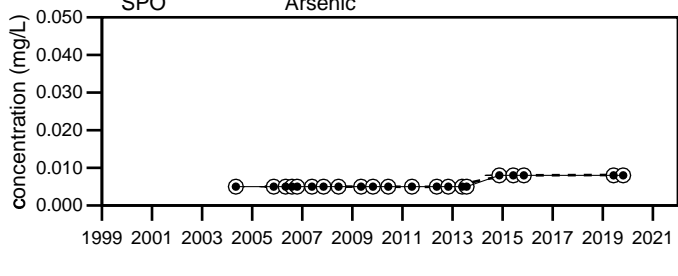
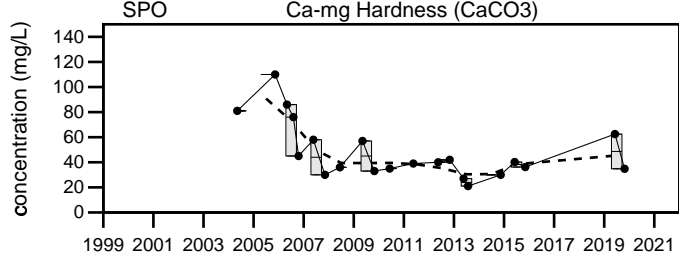
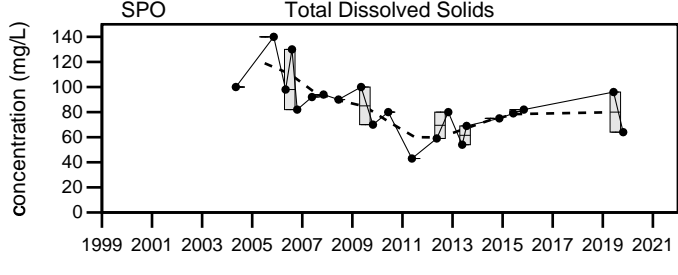
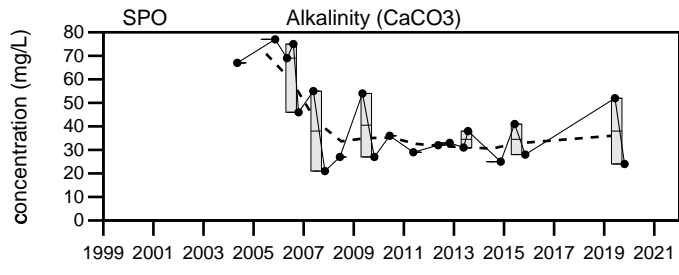
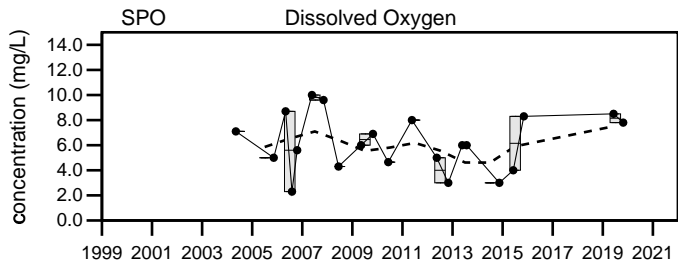
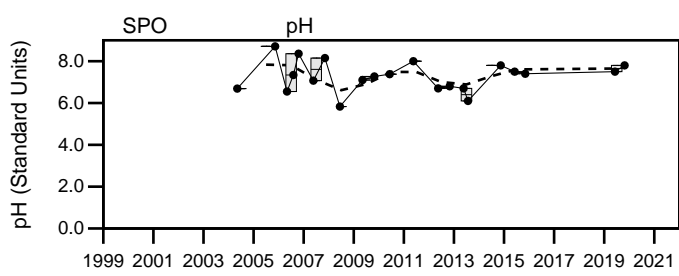
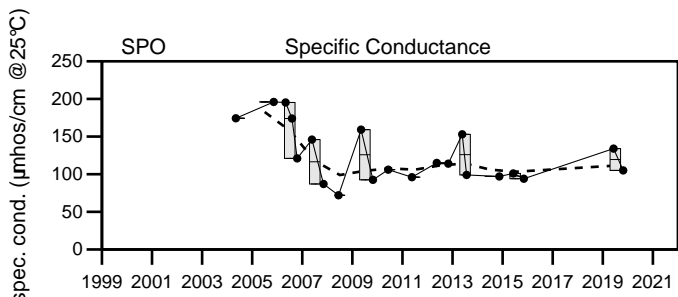
Chloride MFCCC=230 mg/L, Ammonia (N) MFCCC=1.4 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 D = The sampling location was dry.

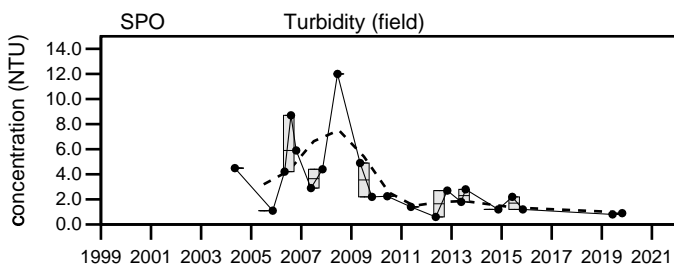
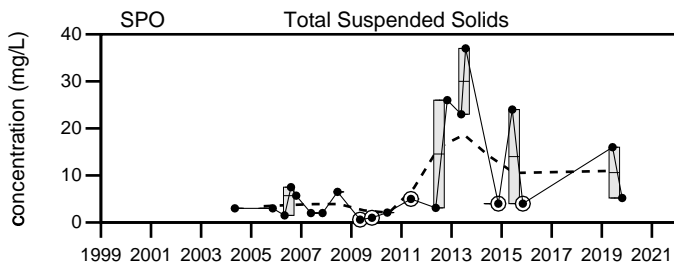
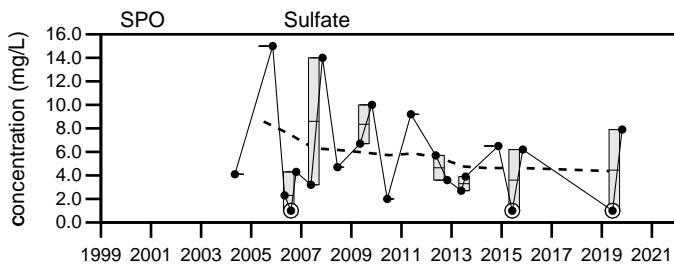
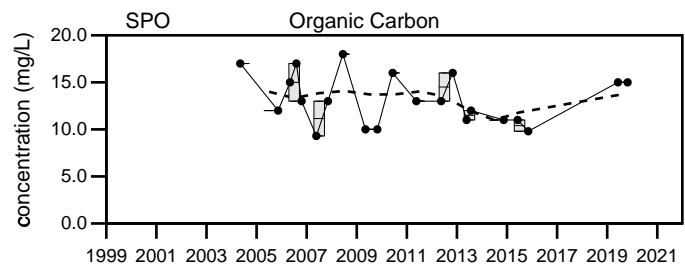
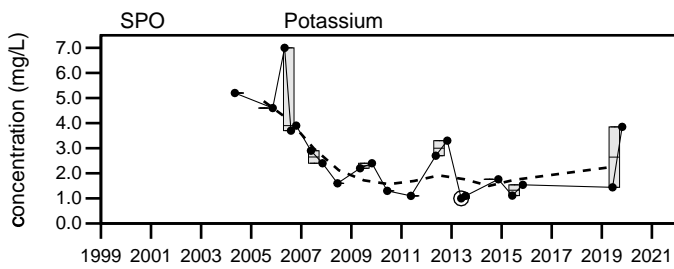
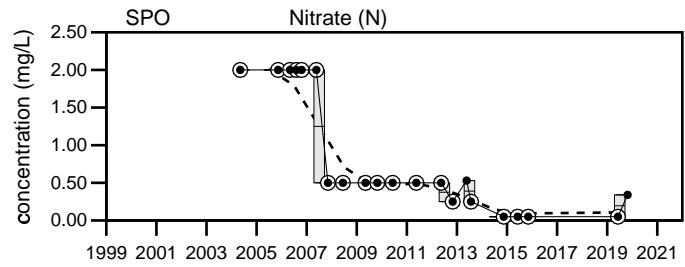
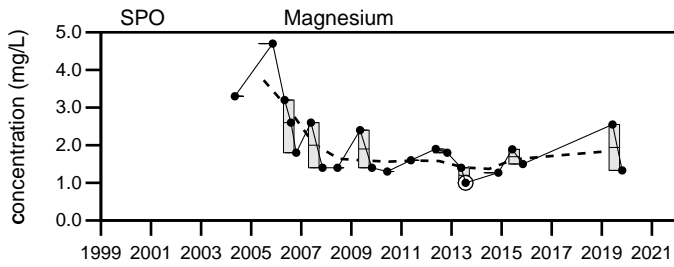
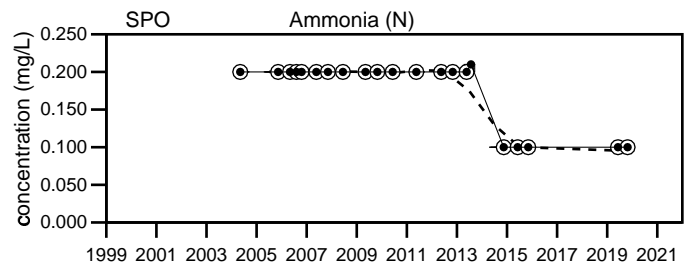
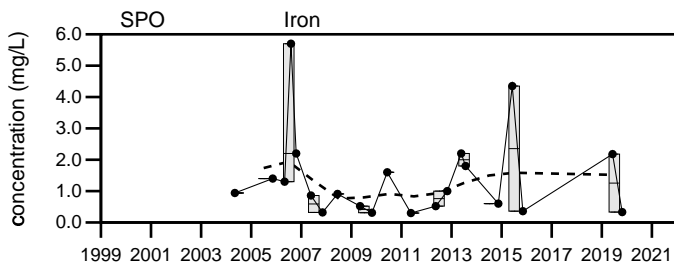
Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
SPO



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill

SPO

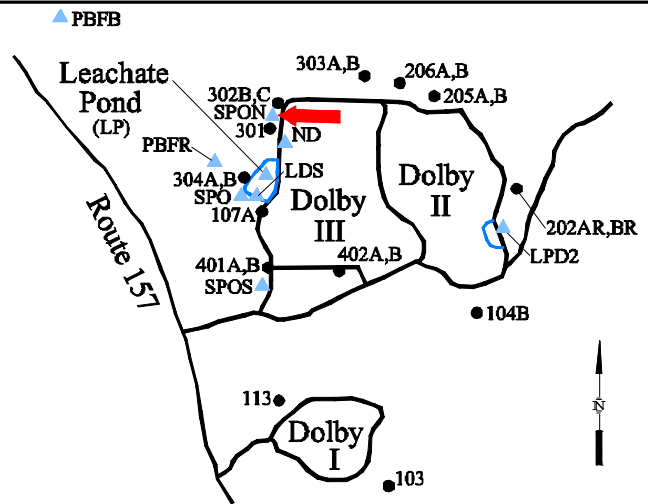
Well Description

Siltation Pond North

Sampled: **2 Times Annually**

Sampled Since: **May-05**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		D	383		227	to 1483	620 ± 42		37
Dissolved Oxygen (mg/L)		D	4.4		2	to 11.5	6 ± 0.39		36
Total Dissolved Solids (mg/L)		D	270		140	to 960	400 ± 28		37
Arsenic (mg/L)		D	0.008 U		0.0016 U	to 0.008 U	0.0061 ± 0.000		37
Calcium (mg/L)		D	66.1		37	to 200	87 ± 6.3		37
Manganese (mg/L)		D	2.65		0.0753	to 17	4.9 ± 0.74		37
pH (STU)		D	7		6.2	to 8.03	7.3 ± 0.068		37
Alkalinity (CaCO3) (mg/L)		D	220		110	to 670	280 ± 18		37
Ca-mg Hardness (CaCO3) (mg/L)		D	224		130	to 750	310 ± 22		37
Bicarbonate Alkalinity (CaCO3) (mg/L)		D	220		105	to 640	270 ± 17		37
Sodium (mg/L)		D	7.83		2.7	to 36	14 ± 1.3		37
Chloride (mg/L)		D	4		2.9	to 49	21 ± 2		37
Iron (mg/L)		D	3.59		0.15	to 8.66	1.6 ± 0.33		37
Magnesium (mg/L)		D	14.4		5.6	to 61	22 ± 1.8		37
Potassium (mg/L)		D	↓ 3.73		3.8	to 82	15 ± 2.1		37
Sulfate (mg/L)		D	28		1 U	to 380	45 ± 12		37
Total Suspended Solids (mg/L)		D	15		1 U	to 30	8 ± 1.2		37
Turbidity (field) (NTU)		D	1.3		0.6	to 29.6	5 ± 1		37
Ammonia (N) (mg/L)		D	0.1 U		0.1 U	to 2.3	0.52 ± 0.097		37
Nitrate (N) (mg/L)		D	0.05 U		0.05 U	to 18	1.1 ± 0.48		37
Organic Carbon (mg/L)		D	15		9.2	to 30	15 ± 0.71		37

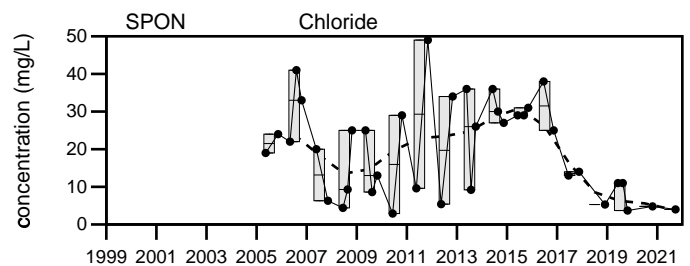
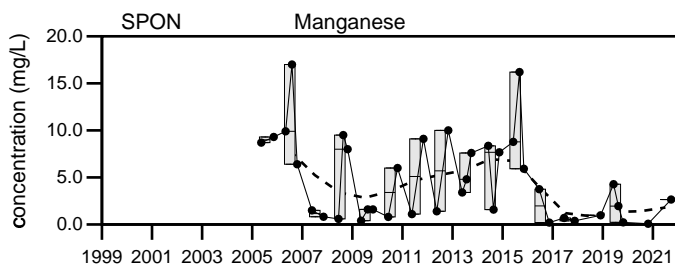
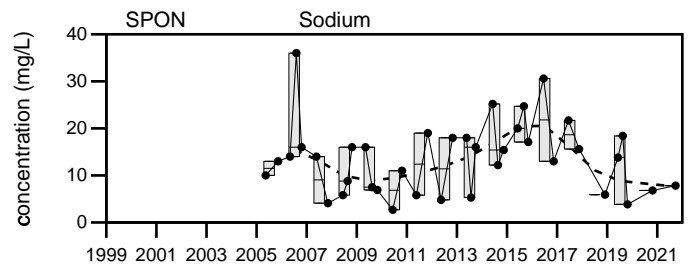
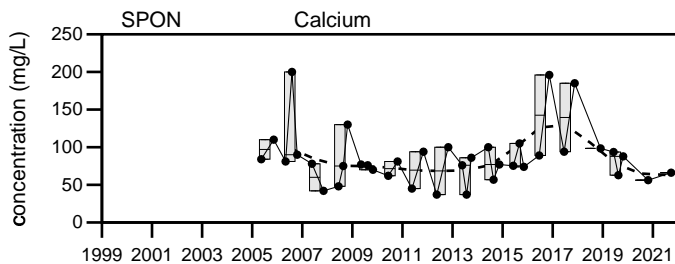
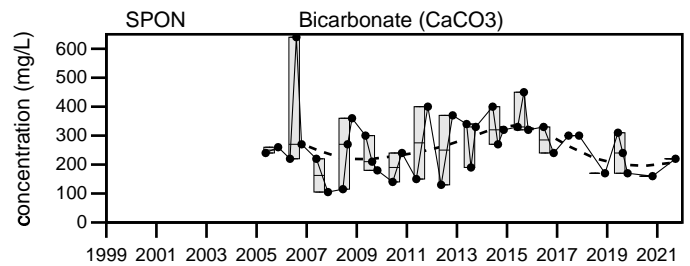
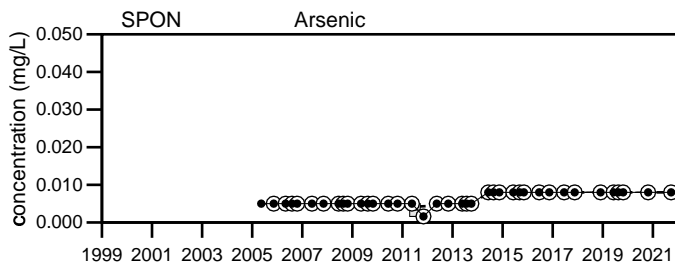
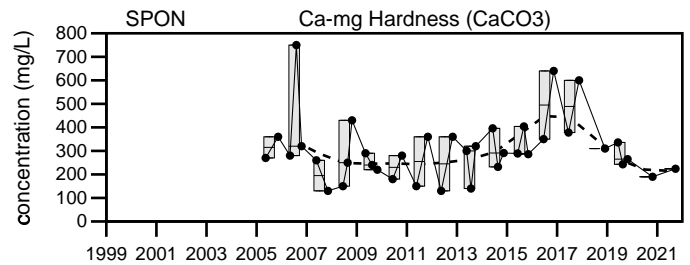
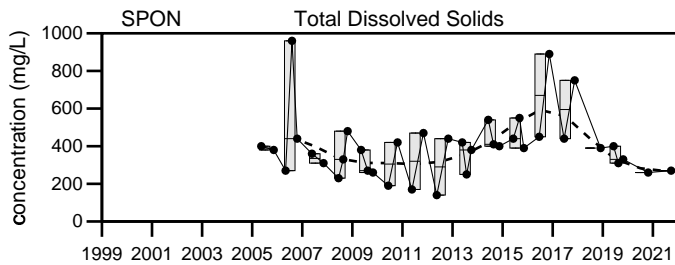
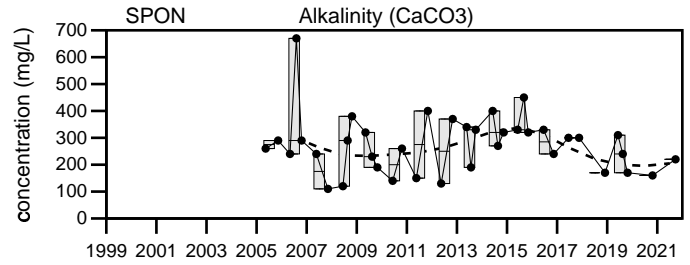
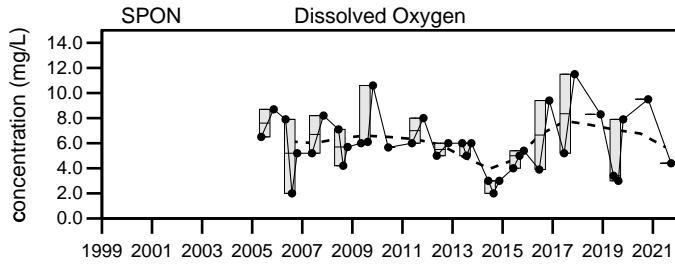
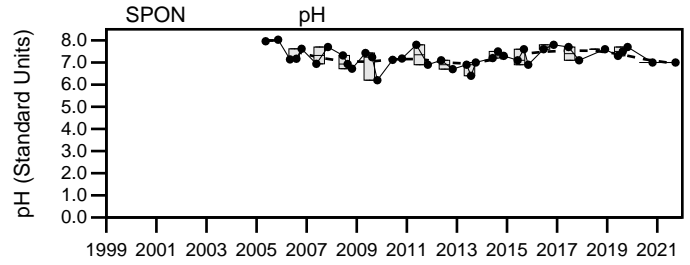
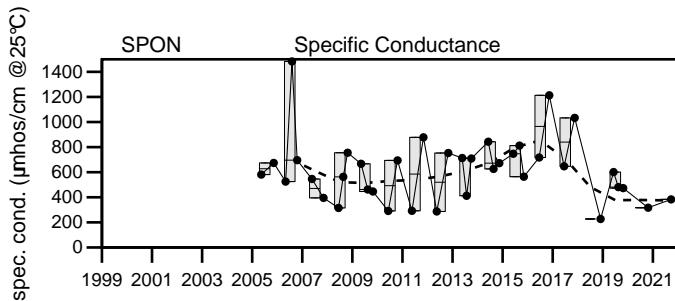
underlined/bold - values exceed a regulatory standard listed below. Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:
 Chloride MFCCC=230 mg/L, Ammonia (N) MFCCC=1.4 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

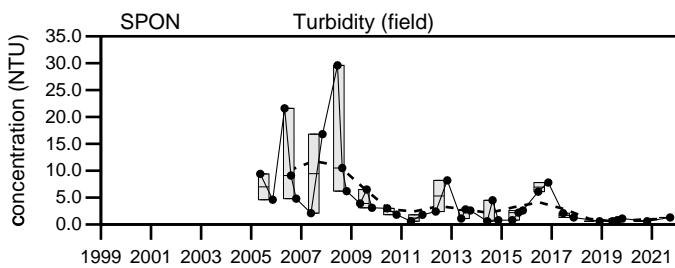
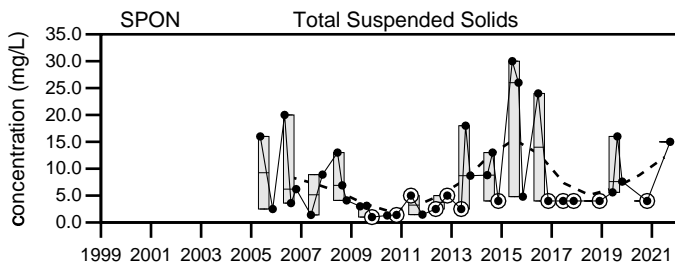
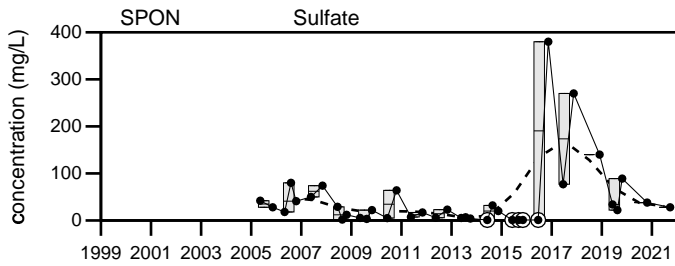
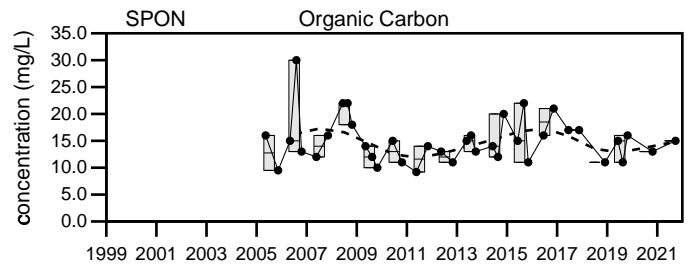
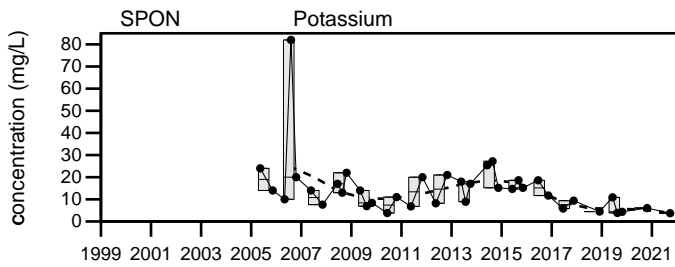
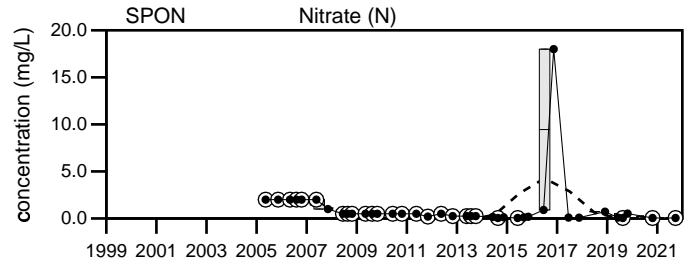
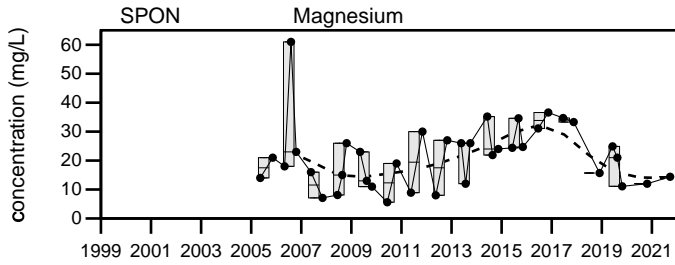
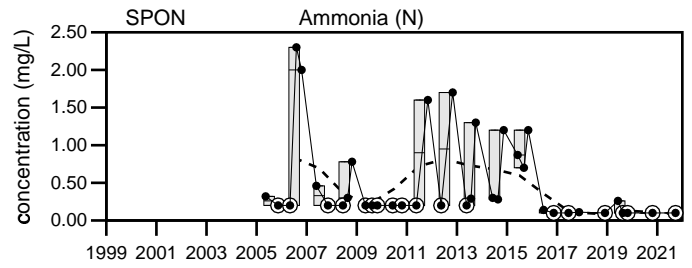
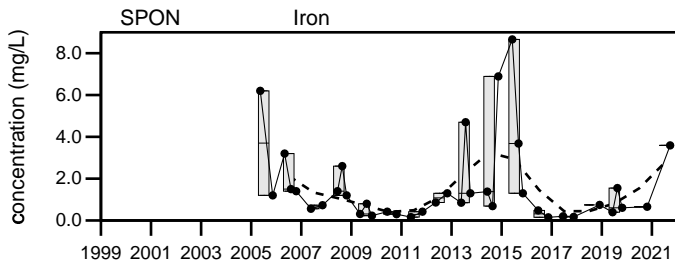
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021 D = The sampling location was dry.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
SPON



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill

SPON

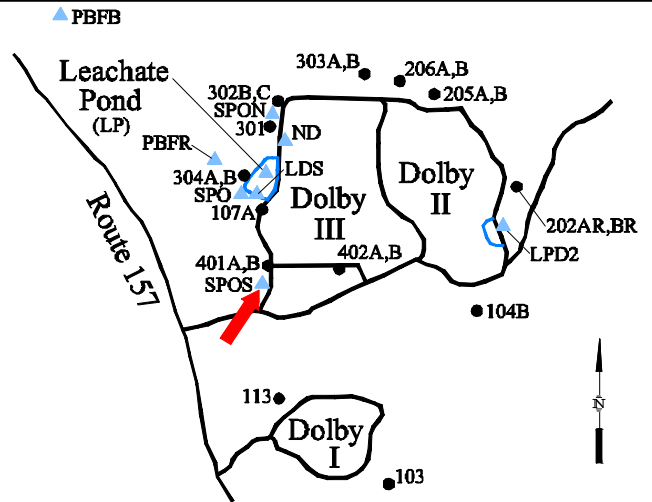
Sevee & Maher Engineers, Inc.

Well Description

Siltation Pond South

Sampled: **2 Times Annually**
 Sampled Since: **May-05**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		122	113		88	to 261	150 ± 6.3		42
Dissolved Oxygen (mg/L)		6.6	5.1		2	to 12.1	6.9 ± 0.36		42
Total Dissolved Solids (mg/L)		98	84		16	to 160	96 ± 5.1		42
Arsenic (mg/L)		0.008 U	0.008 U		0.0016 U	to 0.008 U	0.0062 ± 0.000		42
Calcium (mg/L)		19.9	17.1		10	to 58	19 ± 1.3		42
Manganese (mg/L)		2.2	0.276		0.01 U	to 5.34	0.7 ± 0.21		42
pH (STU)		6.9	7.2		6.4	to 8.8	7.5 ± 0.087		42
Alkalinity (CaCO3) (mg/L)		75	60		34	to 100	62 ± 3.4		42
Ca-mg Hardness (CaCO3) (mg/L)		69	61.7		38	to 190	68 ± 4.2		42
Bicarbonate Alkalinity (CaCO3) (mg/L)		75	60		34	to 100	62 ± 3.4		42
Sodium (mg/L)		2.7	3.11		1.5	to 36	4.1 ± 0.79		42
Chloride (mg/L)		2 U	2 U		1.1	to 11	3.2 ± 0.27		42
Iron (mg/L)		2.84	1.25		0.045	to 25	1.4 ± 0.63		42
Magnesium (mg/L)		4.66	4.6		3.1	to 12	5.2 ± 0.25		42
Potassium (mg/L)		1 U	1 U		0.84	to 4.9	1.4 ± 0.11		42
Sulfate (mg/L)		1 U	1 U		0.58	to 39	4.6 ± 1.1		42
Total Suspended Solids (mg/L)		4 U	↑ 8.8		0.32 U	to 8.3 U	3.2 ± 0.33		42
Turbidity (field) (NTU)		0.9	0.9		0.3	to 14.9	1.7 ± 0.39		42
Ammonia (N) (mg/L)		0.1 U	0.1 U		0.082 U	to 0.2 U	0.15 ± 0.008		42
Nitrate (N) (mg/L)		0.05 U	0.05 U		0.05 U	to 2 U	0.54 ± 0.11		42
Organic Carbon (mg/L)		9	11		7.2	to 18	10 ± 0.39		42

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

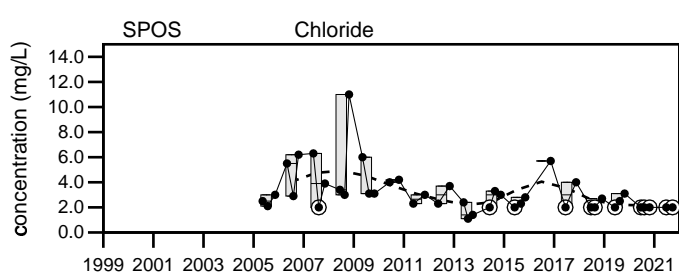
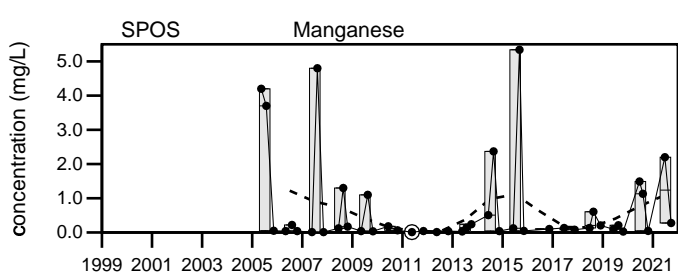
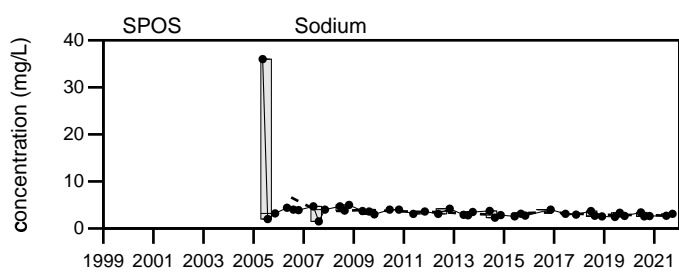
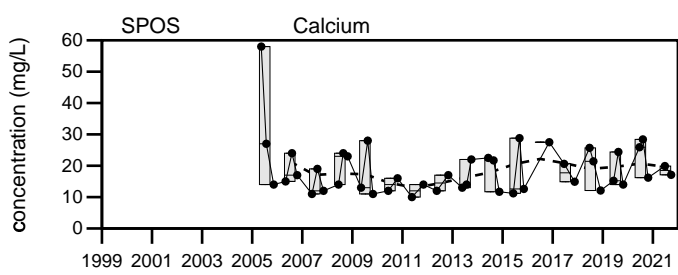
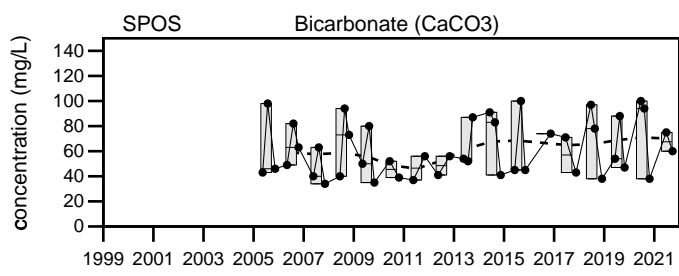
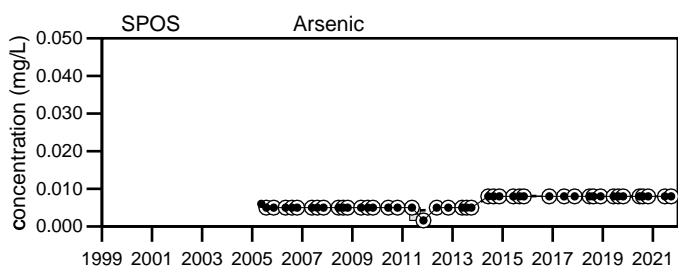
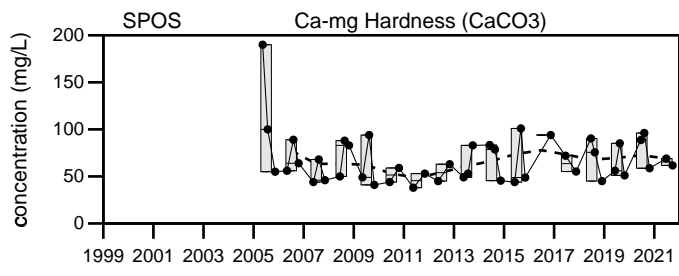
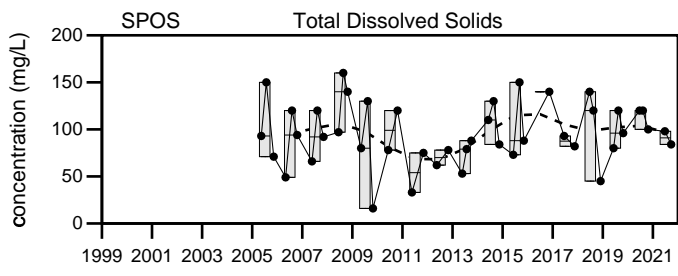
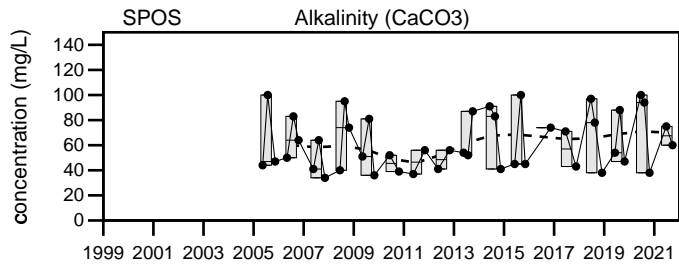
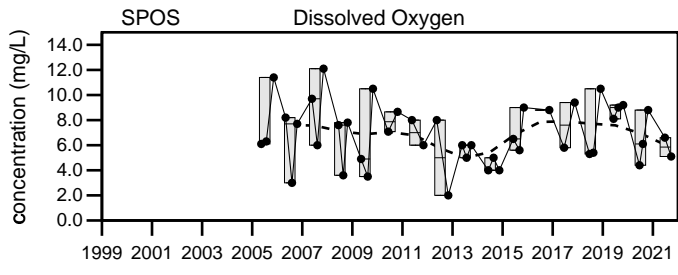
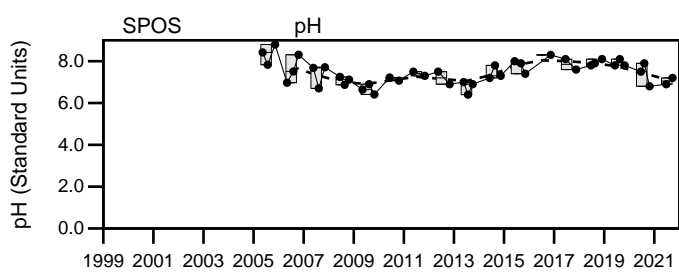
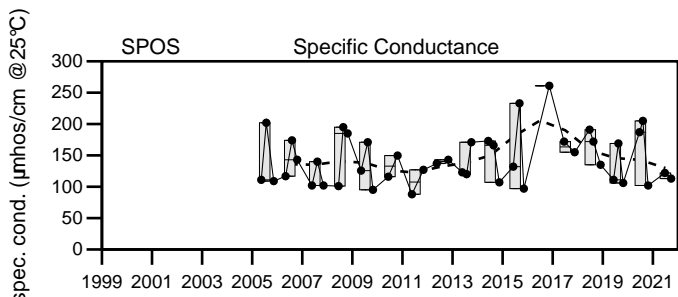
Applicable Limits:

Chloride MFCCC=230 mg/L, Ammonia (N) MFCCC=1.4 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

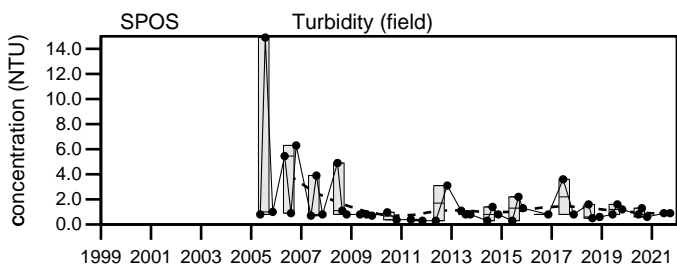
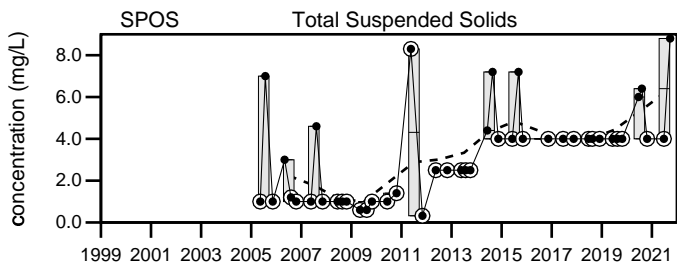
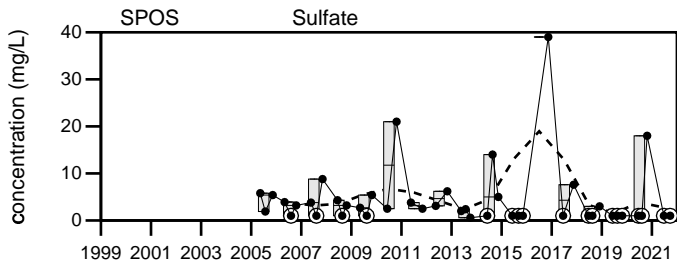
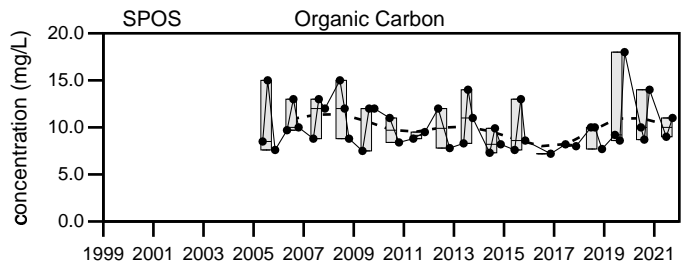
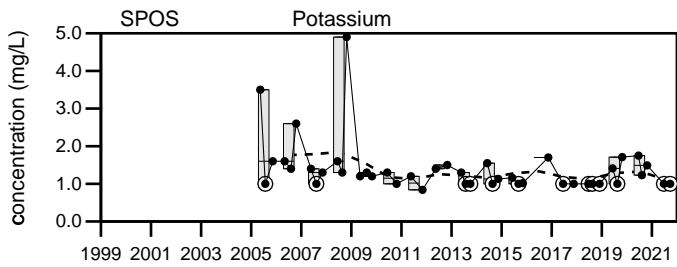
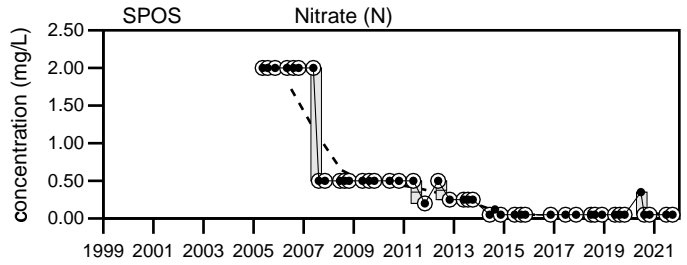
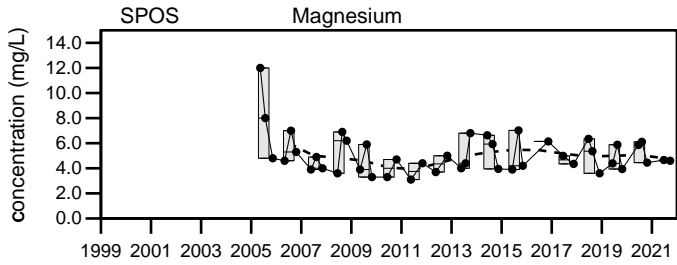
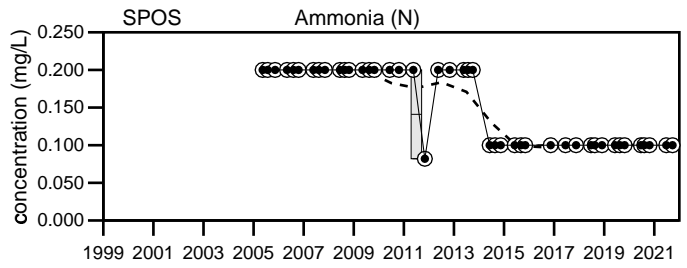
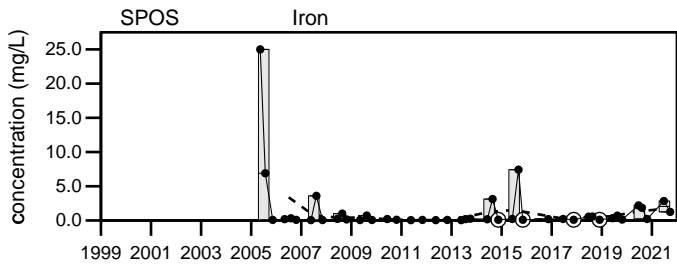
Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
SPOS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill SPOS

Sevee & Maher Engineers, Inc.

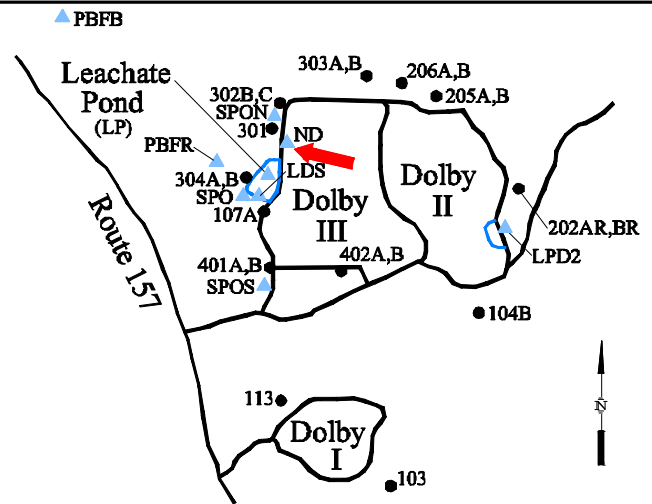
Well Description

Surface water sample from the ditch to the northwest of Dolby III.

Sampled: **2 Times Annually**

Sampled Since: **Jul-04**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		D	D		138.5	to 264	200 ± 25		5
Dissolved Oxygen (mg/L)		D	D		6	to 14.5	9.6 ± 1.7		5
Total Dissolved Solids (mg/L)		D	D		73	to 200	120 ± 24		5
Arsenic (mg/L)		D	D		0.005 U	to 0.005 U	0.005 ± 3E-11		5
Calcium (mg/L)		D	D		26	to 59	39 ± 7		5
Manganese (mg/L)		D	D		0.021	to 0.53	0.18 ± 0.098		5
pH (STU)		D	D		6.86	to 8.58	7.8 ± 0.3		5
Alkalinity (CaCO3) (mg/L)		D	D		56	to 120	88 ± 13		5
Ca-mg Hardness (CaCO3) (mg/L)		D	D		77	to 160	110 ± 18		5
Bicarbonate Alkalinity (CaCO3) (mg/L)		D	D		53	to 120	86 ± 13		5
Sodium (mg/L)		D	D		1	to 2.4	1.6 ± 0.28		5
Chloride (mg/L)		D	D		2 U	to 2 U	2 ± 0		5
Iron (mg/L)		D	D		0.053	to 3.5	0.91 ± 0.66		5
Magnesium (mg/L)		D	D		2.6	to 4.9	3.3 ± 0.43		5
Potassium (mg/L)		D	D		2.6	to 7.1	4.8 ± 0.81		5
Sulfate (mg/L)		D	D		4.2	to 21	9.9 ± 3		5
Total Suspended Solids (mg/L)		D	D		1.5	to 160	38 ± 31		5
Turbidity (field) (NTU)		D	D		0.4	to 158	37 ± 30		5
Ammonia (N) (mg/L)		D	D		0.2 U	to 0.21	0.2 ± 0.002		5
Nitrate (N) (mg/L)		D	D		0.5 U	to 2 U	1.1 ± 0.37		5
Organic Carbon (mg/L)		D	D		5	to 21	13 ± 2.9		5

underlined/bold - values exceed a regulatory standard listed below.

Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

Applicable Limits:

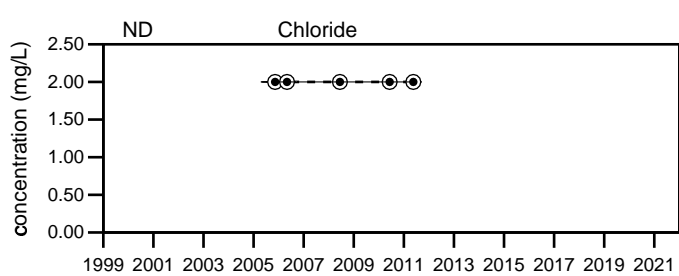
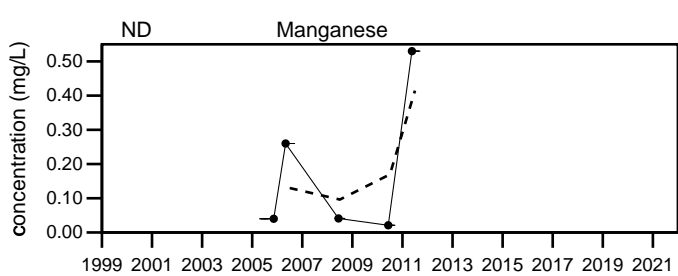
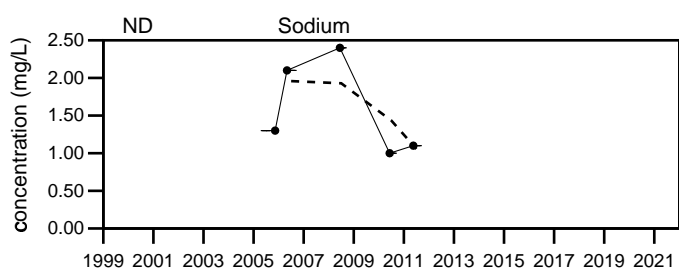
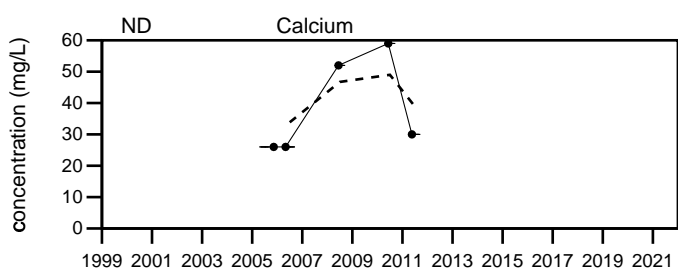
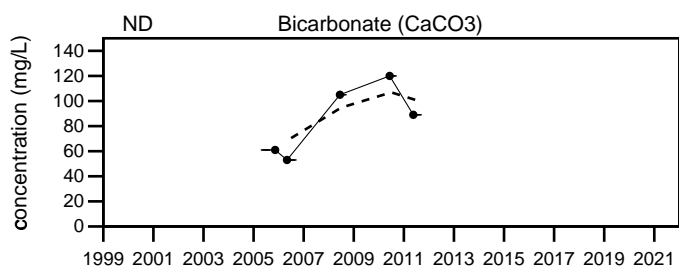
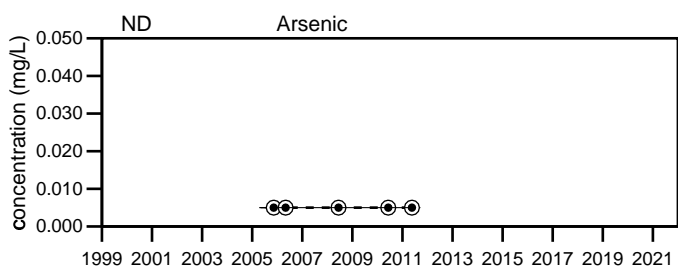
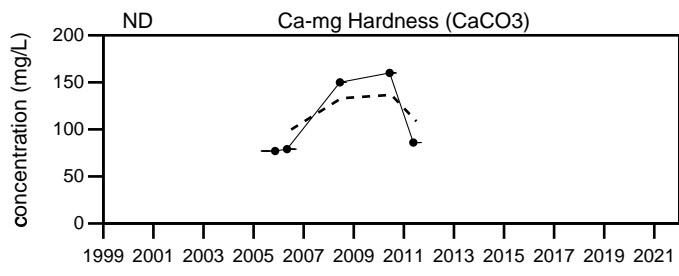
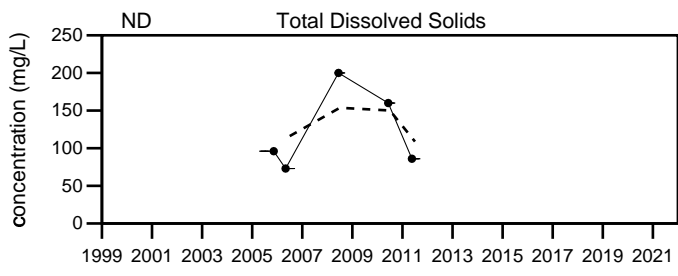
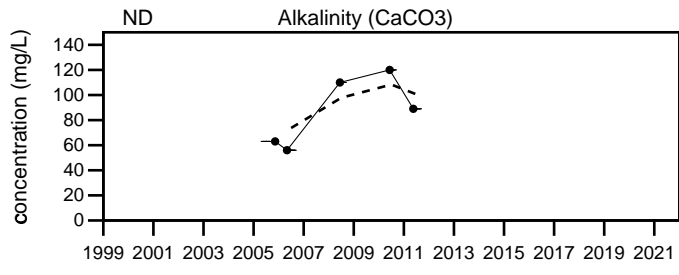
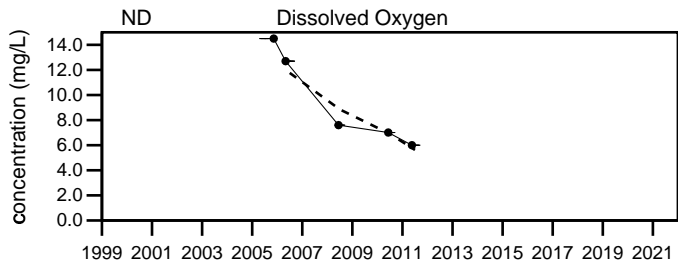
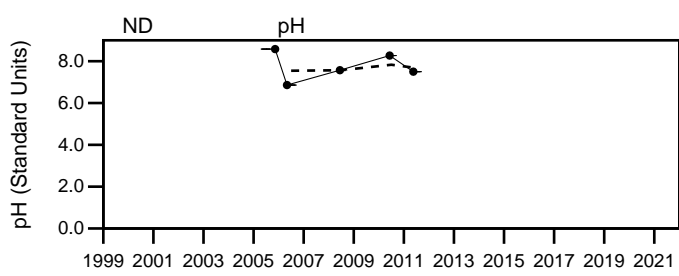
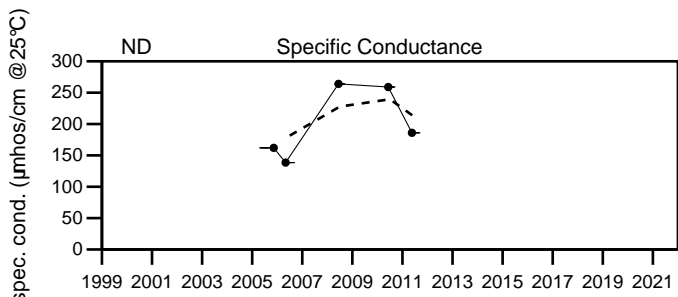
Chloride MFCCC=230 mg/L, Ammonia (N) MFCCC=1.4 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 D = The sampling location was dry.

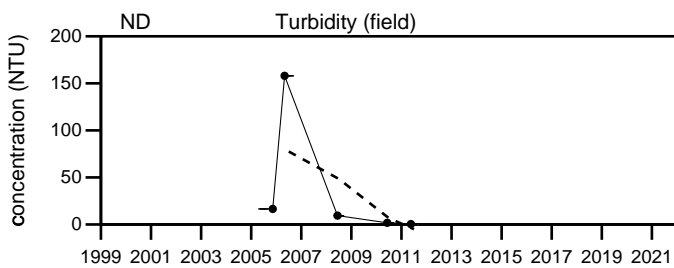
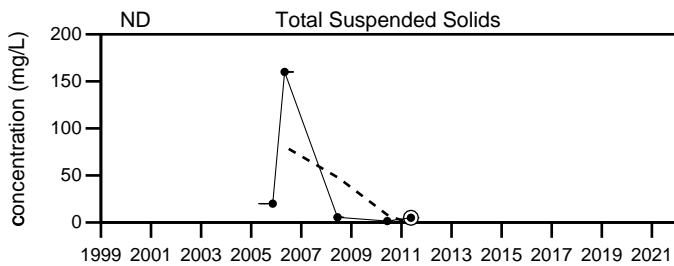
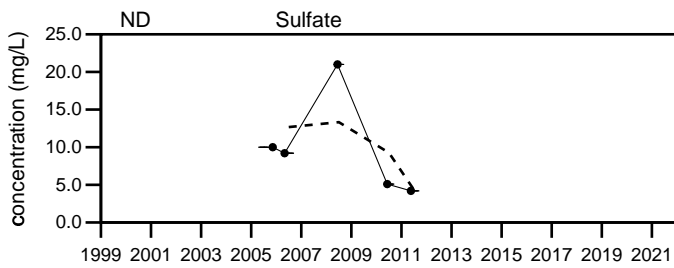
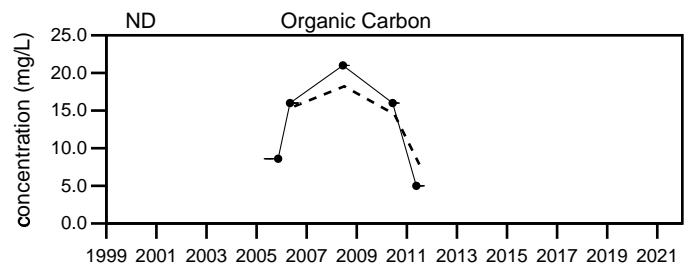
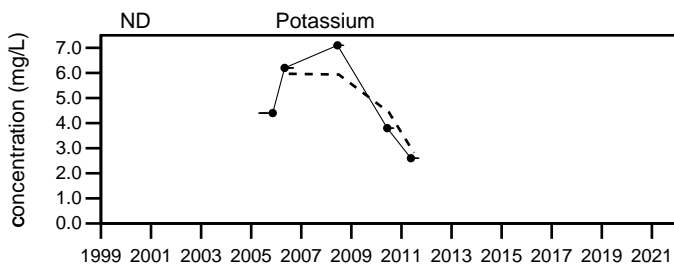
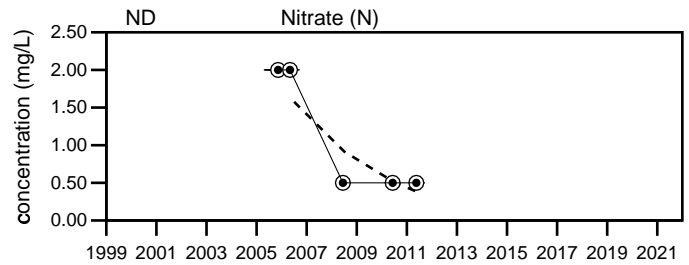
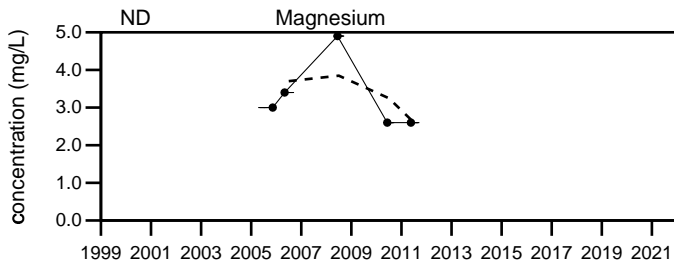
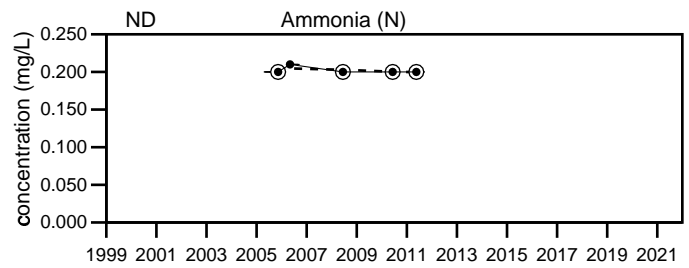
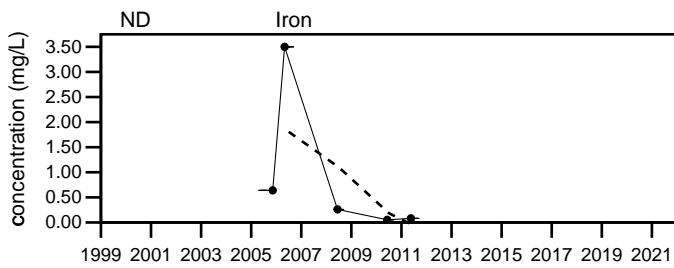
Q3= 9 - 2021



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
ND



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
ND

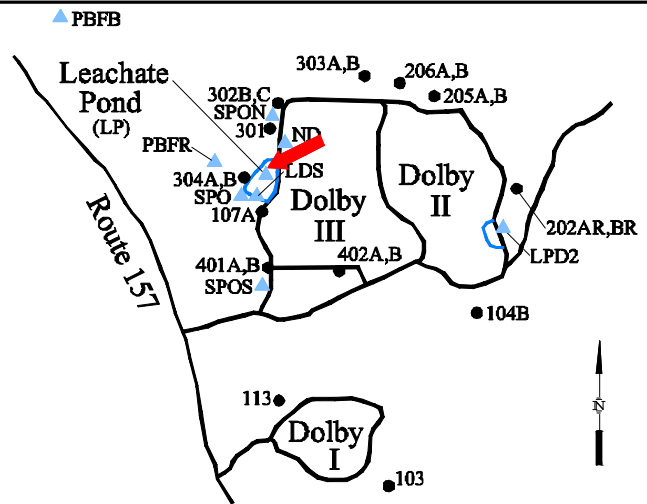
Well Description

Sample from the leachate pond to the west of landfill.

Sampled: **2 Times Annually**

Sampled Since: **Apr-86**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1625		1110	630 to 4760		2100 ± 100		62
Dissolved Oxygen (mg/L)		↓1.8		9.1	2.4 to 13.9		6.9 ± 0.46		30
Total Dissolved Solids (mg/L)		1200		710	270 to 3903		1400 ± 84		62
Arsenic (mg/L)		0.008 U		0.008 U	0.0036 to 0.068		0.02 ± 0.002		60
Calcium (mg/L)		112		113	30 to 340		150 ± 9		56
Manganese (mg/L)		0.761		2.03	0.452 to 20.95		6.1 ± 0.62		62
pH (STU)		7.7		7.6	6.46 to 8.46		7.5 ± 0.052		62
Alkalinity (CaCO3) (mg/L)		1000		580	260 to 2700		1100 ± 60		62
Ca-mg Hardness (CaCO3) (mg/L)		822		523	259 to 2300		900 ± 46		62
Bicarbonate Alkalinity (CaCO3) (mg/L)		1000		580	260 to 2550		1000 ± 55		62
Sodium (mg/L)		55.7		23.9	9.39 to 140		52 ± 3.4		61
Chloride (mg/L)		50		21	11 to 248		67 ± 5.9		62
Iron (mg/L)		2.15		4.18	1.18 to 76.7		12 ± 1.7		62
Magnesium (mg/L)		132		58.5	24 to 350		120 ± 8		56
Potassium (mg/L)		149		63.6	26 to 410		150 ± 10		62
Sulfate (mg/L)		1 U		55	1 U to 320		46 ± 6.7		62
Total Suspended Solids (mg/L)		4.8		7.2	4 U to 133		48 ± 4.5		62
Turbidity (field) (NTU)		5.6		17	0.8 to 74.3		18 ± 3.7		30
Ammonia (N) (mg/L)		8.5		5.6	1.1 to 27		11 ± 0.84		62
Nitrate (N) (mg/L)		0.084		0.52	0.05 U to 15.5		1.7 ± 0.36		62
Organic Carbon (mg/L)		40		23	9.9 to 383.4		83 ± 10		62

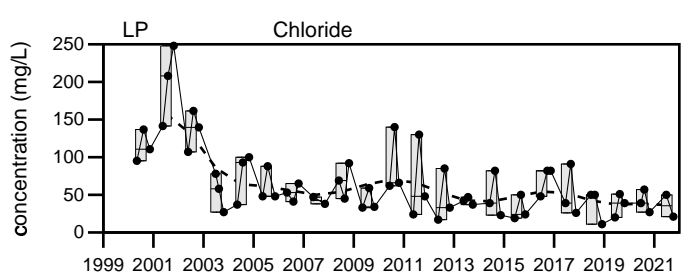
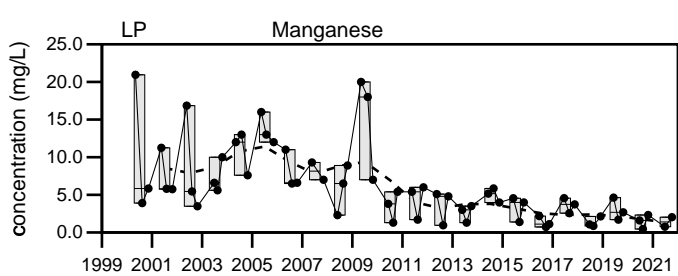
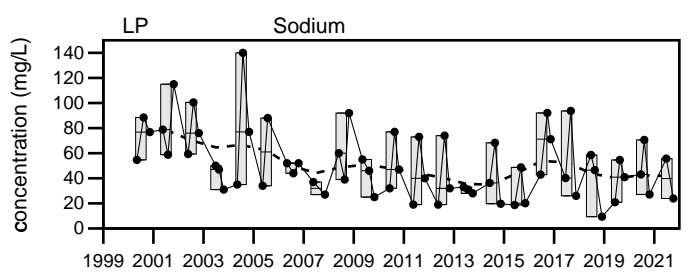
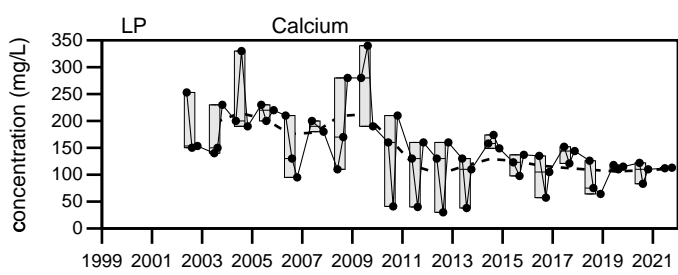
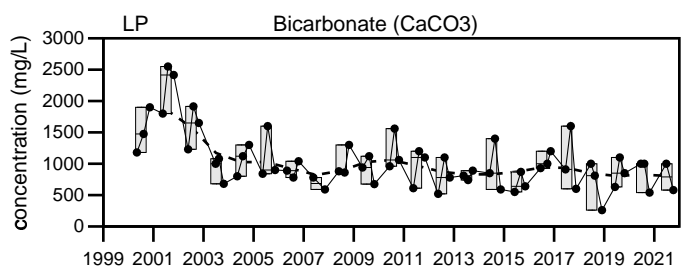
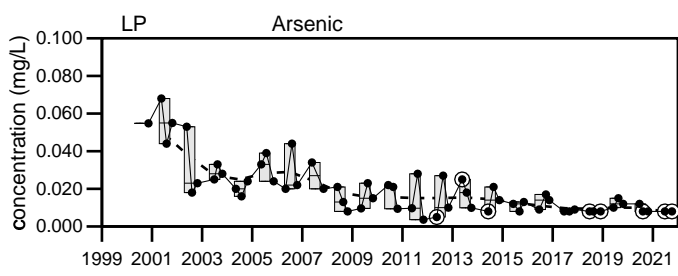
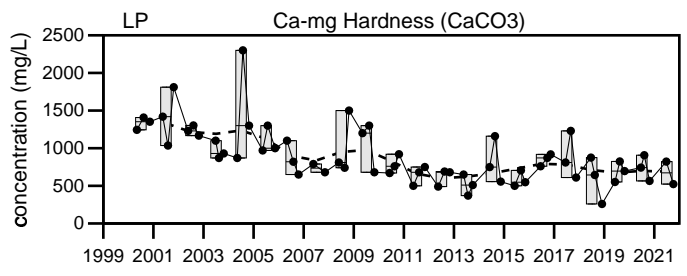
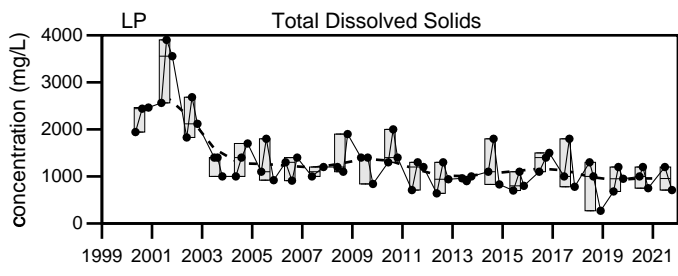
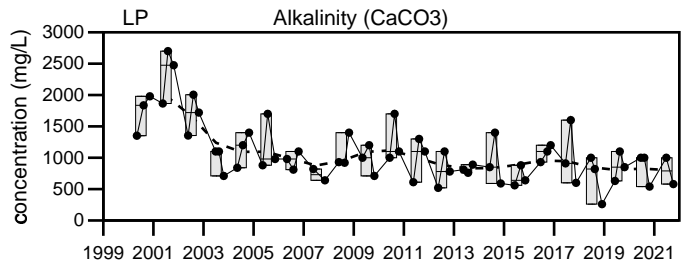
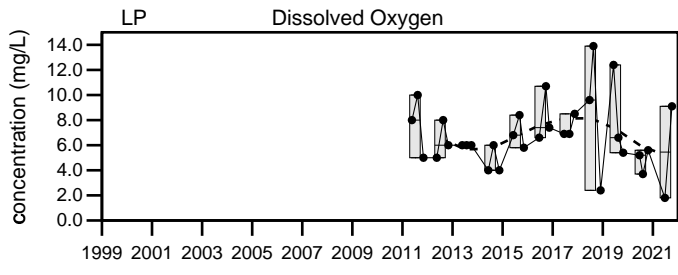
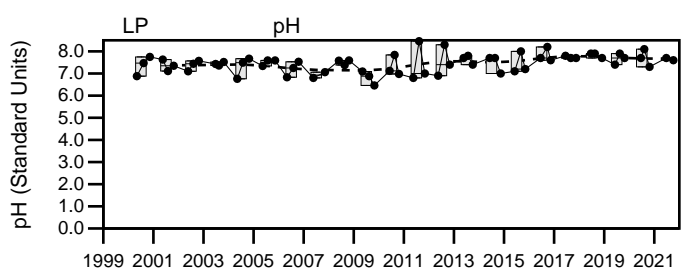
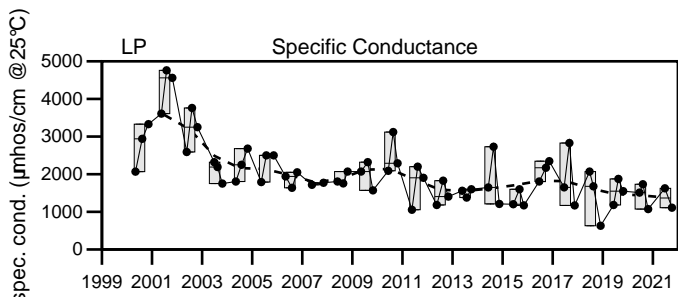
underlined/bold - values exceed a regulatory standard listed below. Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q4= 10 - 2021



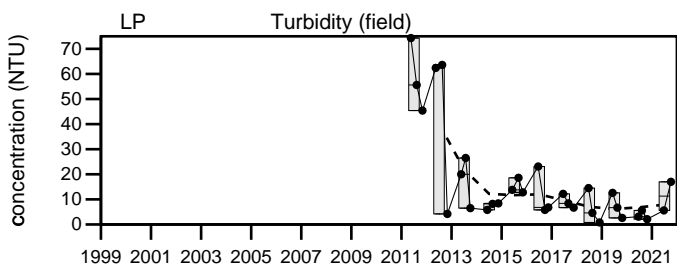
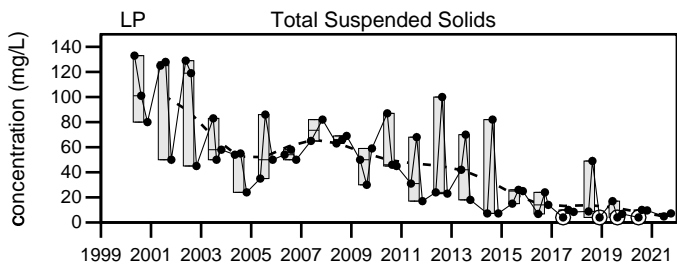
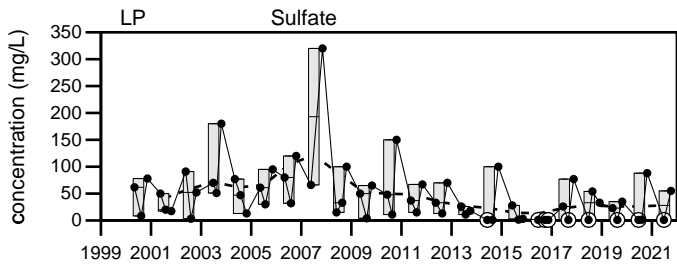
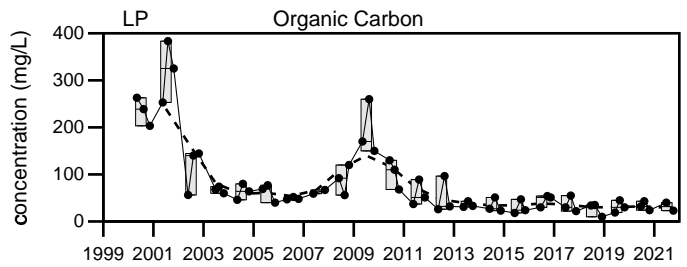
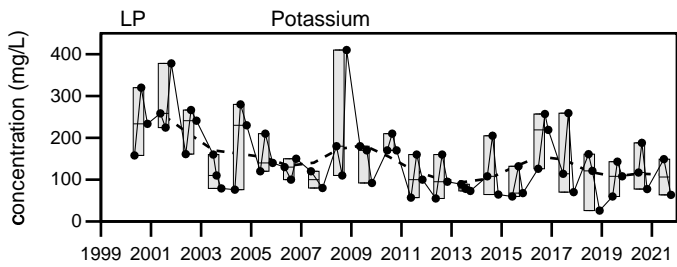
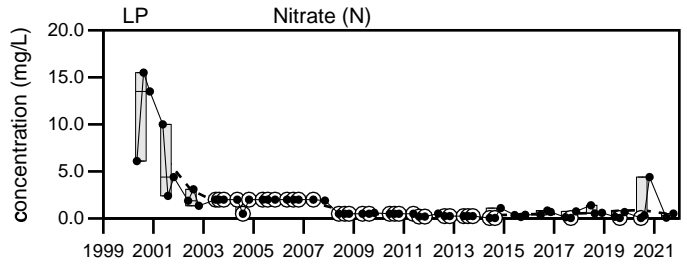
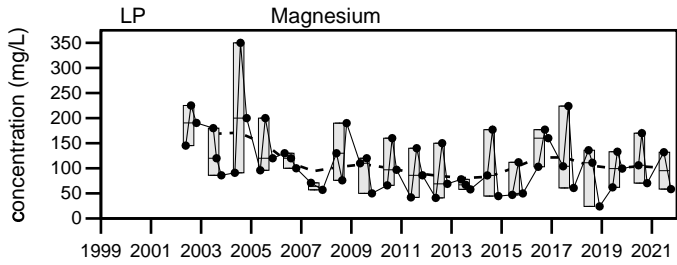
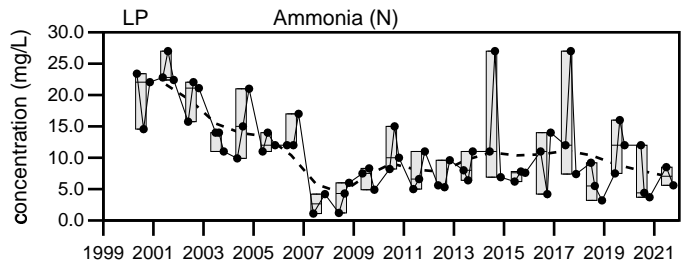
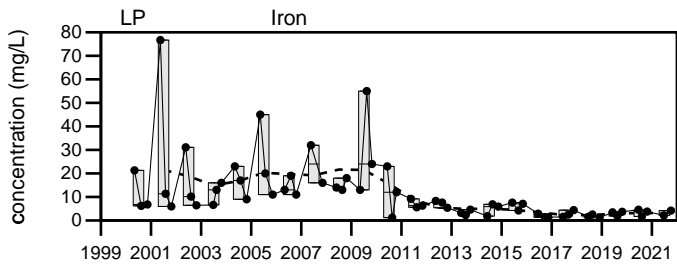


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
LP

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LEGEND

- Maximum Value
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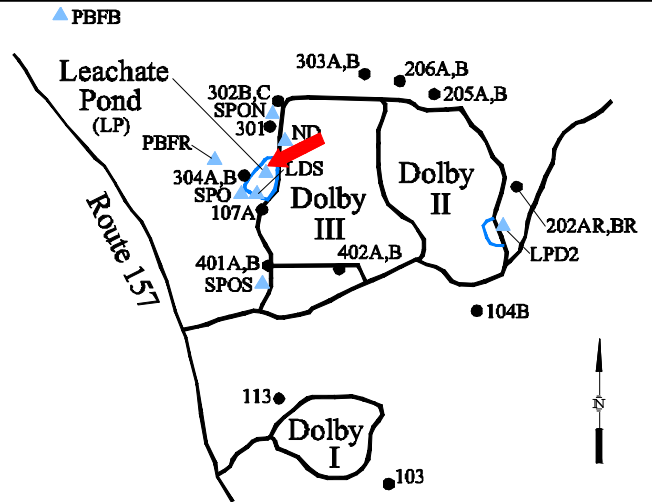
Well Description

Sample from the leachate pond to the west of landfill.

Sampled: **2 Times Annually**

Sampled Since: **Apr-86**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		1625		1110	630	to 4760	2100 ± 100		62
pH (STU)		7.7		7.6	6.46	to 8.46	7.5 ± 0.052		62
Temperature (Deg C)		21.3		22.4	1.7	to 28.7	16 ± 0.85		62
Dissolved Oxygen (mg/L)		↓ 1.8		9.1	2.4	to 13.9	6.9 ± 0.46		30
Benzene (ug/L)		3 U		3 U	3 U	to 30 U	4.5 ± 0.75		36
Toluene (ug/L)		5 U		5 U	2.8	to 50 U	6.2 ± 1.3		36
Ethylbenzene (ug/L)		5 U		5 U	3.7 U	to 50 U	6.2 ± 1.3		36
o-Xylene (ug/L)		5 U		5 U	4.4 U	to 50 U	6.2 ± 1.3		36
m,p-Xylene (ug/L)		10 U		10 U	0.96	to 100 U	11 ± 2.6		36
C11-C22 AROMATICS (ADJUSTED) (ug/L)		94 U		95 U	93 U	to 280	100 ± 6.4		29
C19-C36 ALIPHATICS (ADJUSTED) (ug/L)		94 U		95 U	93 U	to 360	100 ± 9.1		29
C5-C8 ALIPHATICS (ADJUSTED) (ug/L)		100 U		100 U	75 U	to 1000 U	130 ± 35		26
C9-C10 AROMATICS (ADJUSTED) (ug/L)		100 U		100 U	25 U	to 1000 U	120 ± 36		26
C9-C12 ALIPHATICS (ADJUSTED) (ug/L)		100 U		100 U	25 U	to 1000 U	120 ± 36		26
C9-C18 ALIPHATICS (ADJUSTED) (ug/L)		94 U		95 U	93 U	to 104 U	96 ± 0.55		29
Methyltertiarybutylether (ug/L)		5 U		5 U	2 U	to 50 U	6.3 ± 1.5		31
Naphthalene (ug/L)		5 U		5 U	1.7 U	to 50 U	6.2 ± 1.4		32
Naphthalene (EPH) (ug/L)		1.9 U		1.9 U	1.9 U	to 2 U	1.9 ± 0.005		21
2-Methylnaphthalene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Acenaphthylene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Acenaphthene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Fluorene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Phenanthrene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Anthracene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Fluoranthene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Pyrene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Benzo(a)Anthracene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Chrysene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Benzo(b)Fluoranthene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Benzo(k)Fluoranthene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Benzo(a)Pyrene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Indeno(1,2,3-c,d)Pyrene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Dibenz(a,h)Anthracene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Benzo(g,h,i)perylene (ug/L)		1.9 U		1.9 U	1.9 U	to 10 U	2.9 ± 0.4		31
Aluminum (mg/L)				0.3 U	0.02 U	to 0.3 U	0.17 ± 0.024		22
Antimony (mg/L)				0.008 U	0.00035 U	to 0.011	0.0057 ± 0.000		17
Arsenic (mg/L)		0.008 U		0.008 U	0.0036	to 0.068	0.02 ± 0.002		60

		2021 Leachate Stats			
Dolby Landfill					
Barium (mg/L)		0.0973	0.0439 to 0.25	0.14 ± 0.011	22
Beryllium (mg/L)		0.005 U	0.00002 U to 0.005 U	0.0031 ± 0.000	17
Cadmium (mg/L)		0.005 U	0.00015 to 0.005 U	0.0026 ± 0.000	17
Calcium (mg/L)	112	113	30 to 340	150 ± 9	56
Chromium (mg/L)		0.01 U	0.0036 to 0.01 U	0.0071 ± 0.000	22
Cobalt (mg/L)		0.01 U	0.0064 to 0.05 U	0.035 ± 0.004	22
Copper (mg/L)		0.025 U	0.00028 U to 0.025 U	0.01 ± 0.002	22
Iron (mg/L)	2.15	4.18	1.18 to 76.7	12 ± 1.7	62
Lead (mg/L)		0.005 U	0.00077 U to 0.005	0.0036 ± 0.000	22
Magnesium (mg/L)	132	58.5	24 to 350	120 ± 8	56
Manganese (mg/L)	0.761	2.03	0.452 to 20.95	6.1 ± 0.62	62
Nickel (mg/L)		0.01 U	0.005 to 0.022	0.012 ± 0.000	22
Potassium (mg/L)	149	63.6	26 to 410	150 ± 10	62
Selenium (mg/L)		0.01 U	0.005 U to 0.016	0.0095 ± 0.000	22
Silver (mg/L)		0.01 U	0.001 U to 0.01 U	0.007 ± 0.001	17
Sodium (mg/L)	55.7	23.9	9.39 to 140	52 ± 3.4	61
Thallium (mg/L)		0.015 U	0.00125 U to 0.02	0.0084 ± 0.002	17
Zinc (mg/L)		0.02 U	0.005 U to 0.021 U	0.014 ± 0.001	22
Ammonia (N) (mg/L)	8.5	5.6	1.1 to 27	11 ± 0.84	62
Nitrate (N) (mg/L)	0.084	0.52	0.05 U to 15.5	1.7 ± 0.36	62
Total Phosphorus Mixed Forms (PO4 and	0.1 U	0.1 U	0.022 to 1.364	0.27 ± 0.036	61
Total Dissolved Solids (mg/L)	1200	710	270 to 3903	1400 ± 84	62
Total Suspended Solids (mg/L)	4.8	7.2	4 U to 133	48 ± 4.5	62
Sulfate (mg/L)	1 U	55	1 U to 320	46 ± 6.7	62
Ca-mg Hardness (CaCO3) (mg/L)	822	523	259 to 2300	900 ± 46	62
Bicarbonate Alkalinity (CaCO3) (mg/L)	1000	580	260 to 2550	1000 ± 55	62
Alkalinity (CaCO3) (mg/L)	1000	580	260 to 2700	1100 ± 60	62
Organic Carbon (mg/L)	40	23	9.9 to 383.4	83 ± 10	62
Chloride (mg/L)	50	21	11 to 248	67 ± 5.9	62
Turbidity (field) (NTU)	5.6	17	0.8 to 74.3	18 ± 3.7	30

underlined/bold - values exceed a regulatory standard listed below.

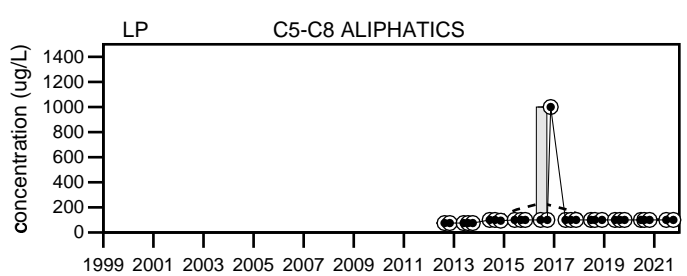
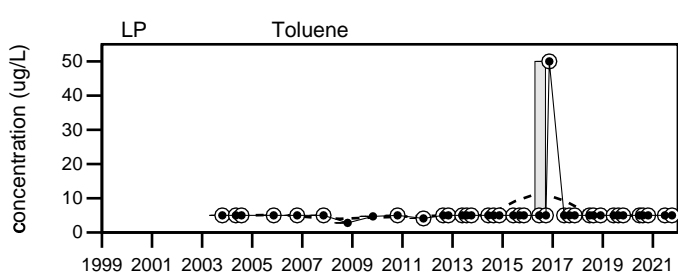
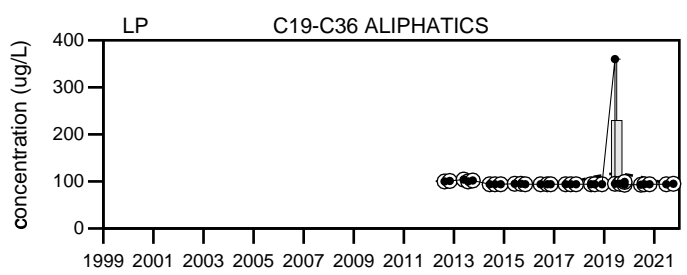
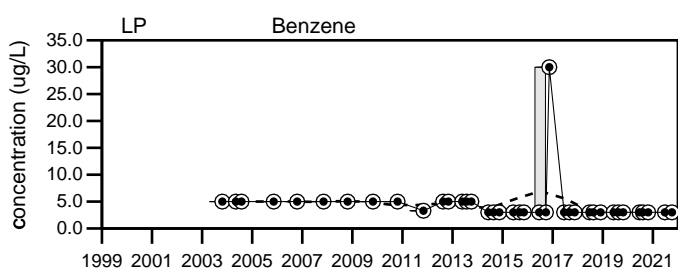
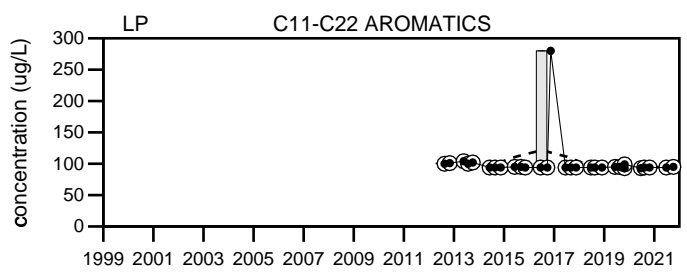
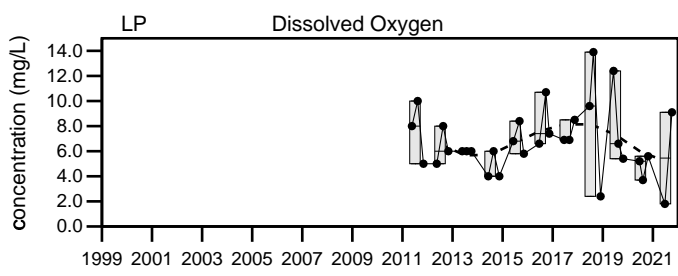
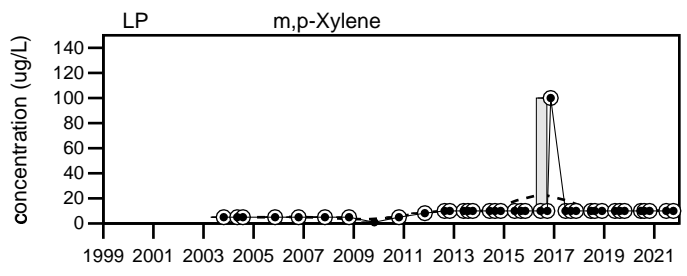
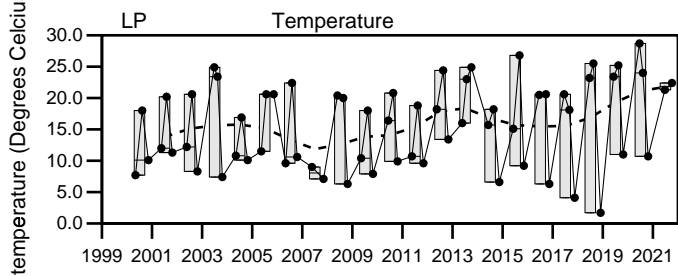
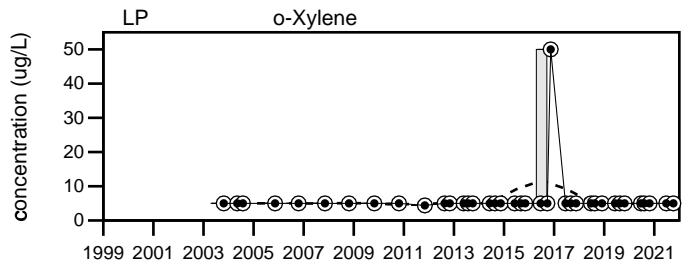
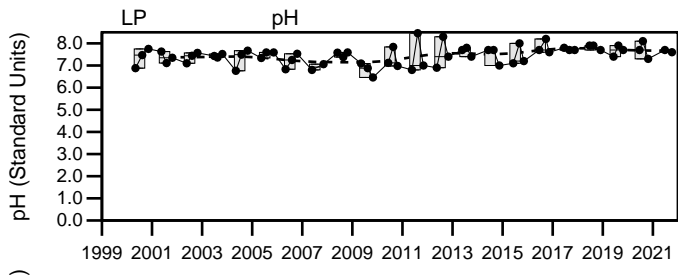
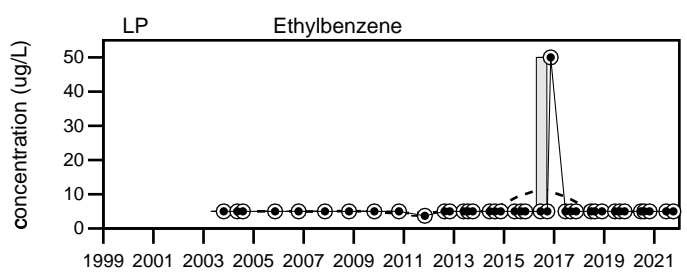
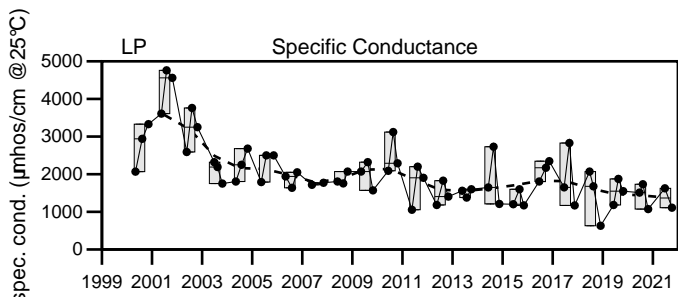
Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

Q4= 10 - 2021

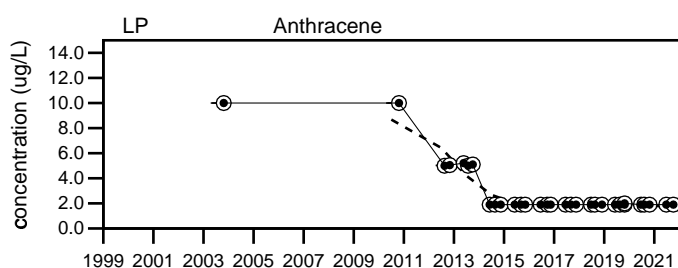
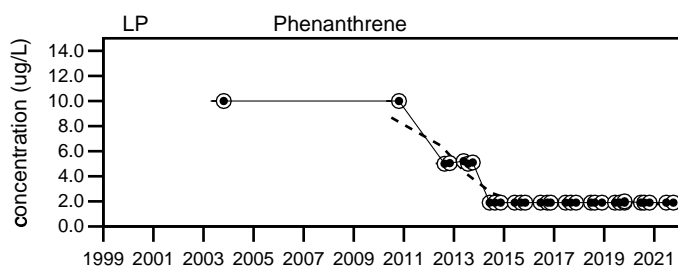
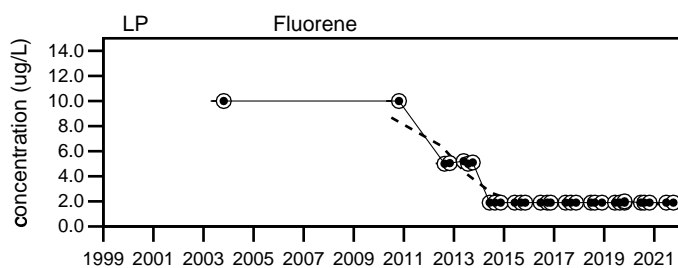
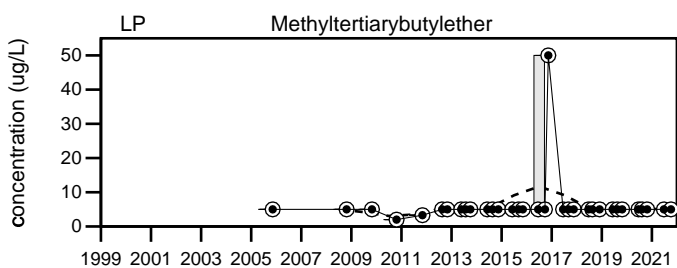
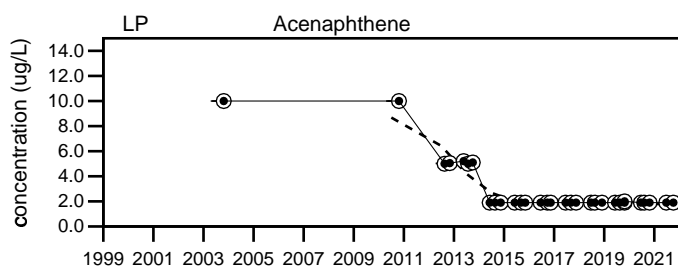
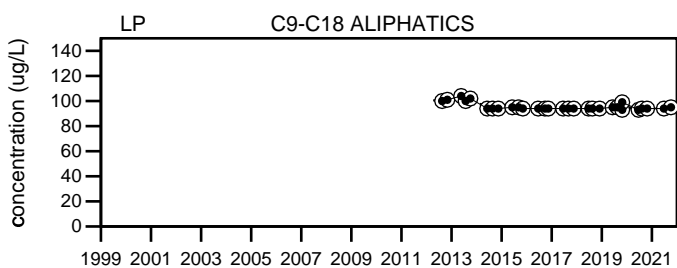
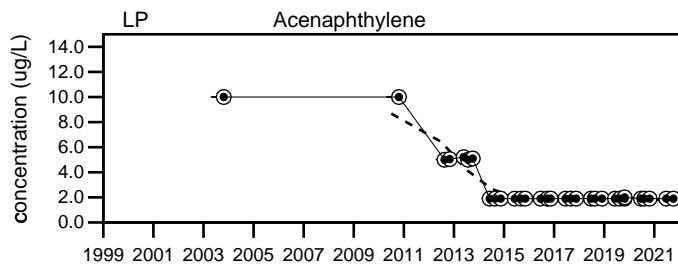
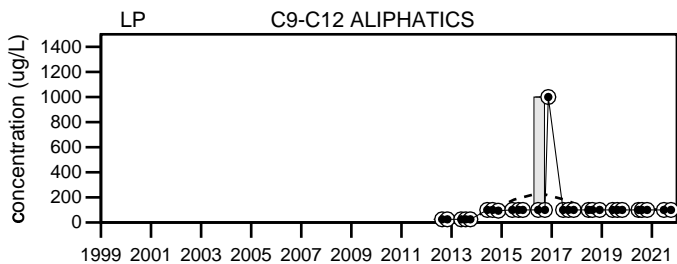
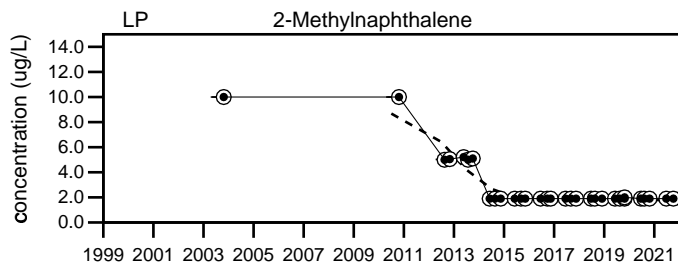
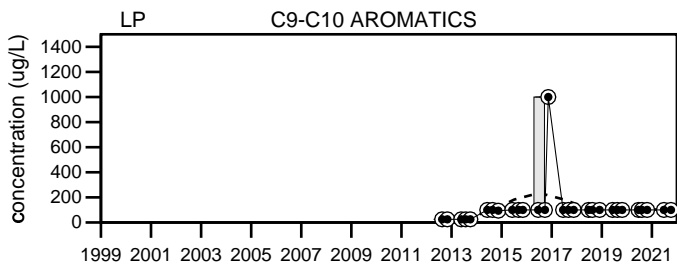


LEGEND

- Maximum Value
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- Sample Event
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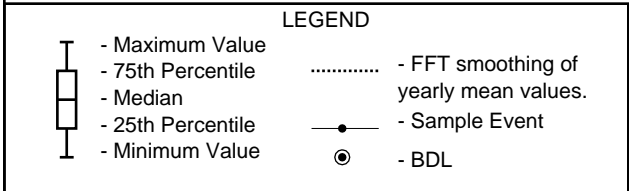
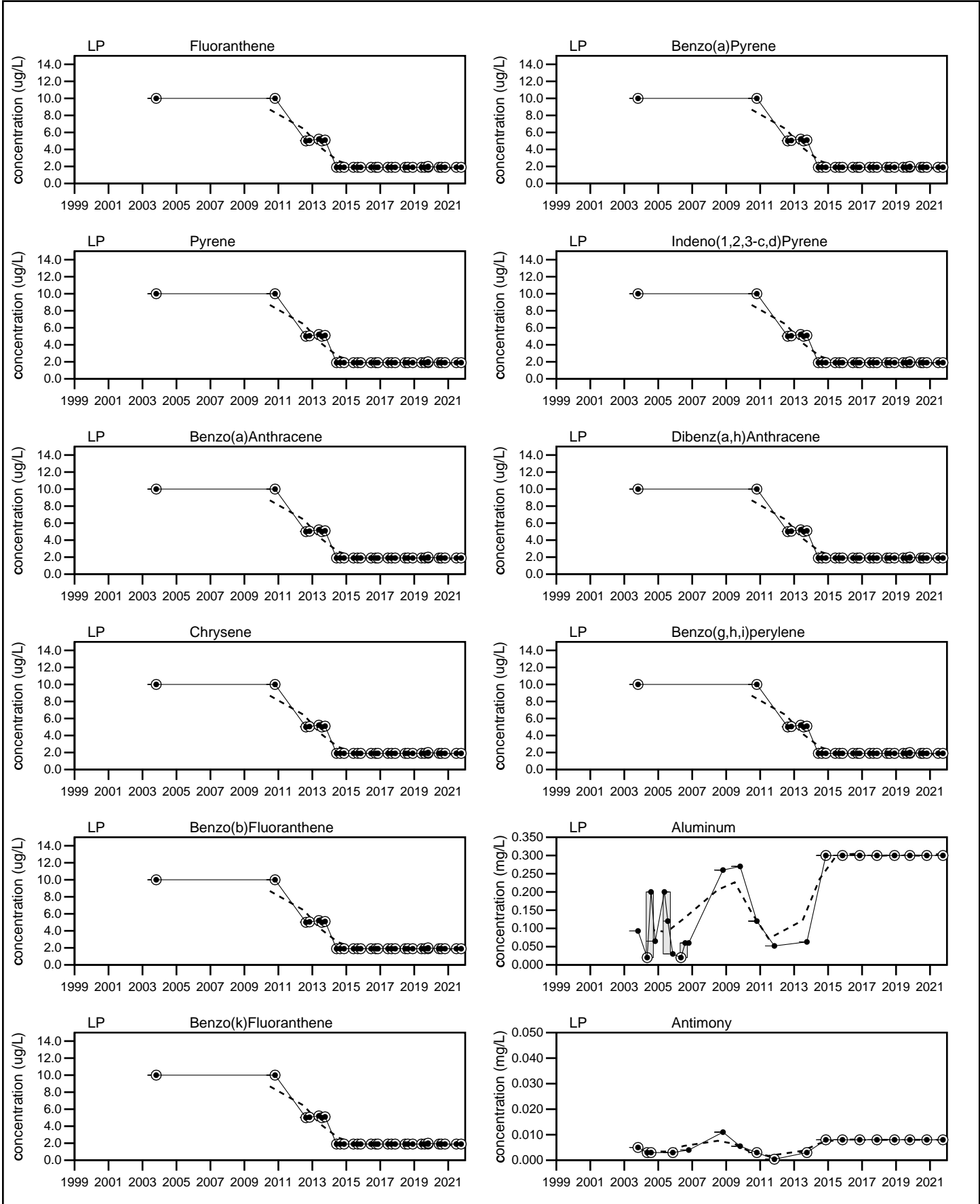
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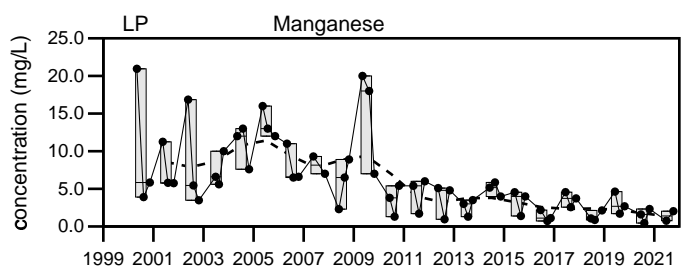
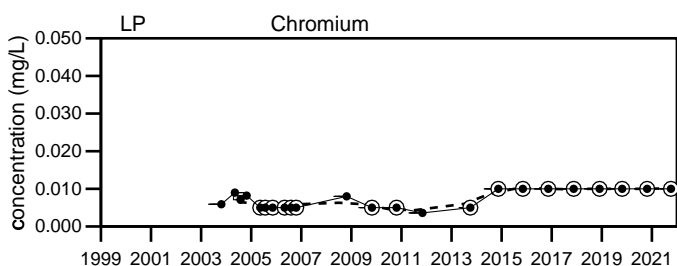
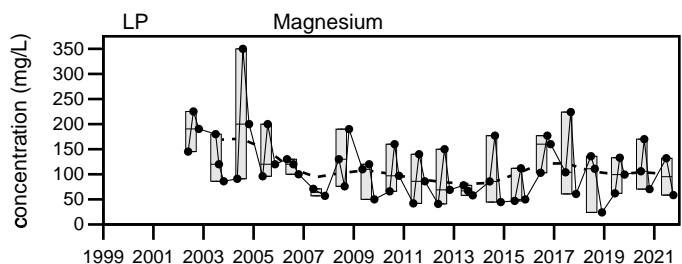
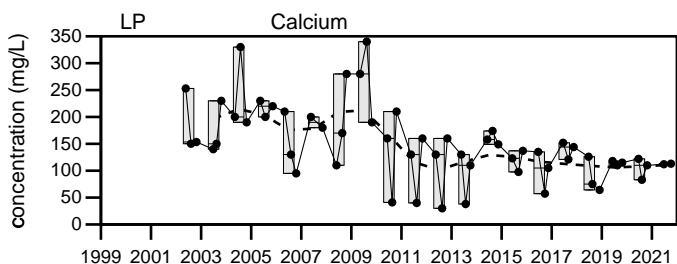
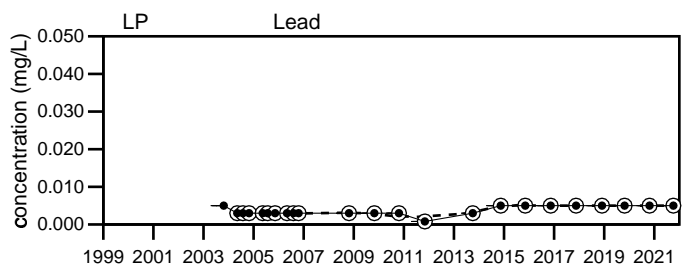
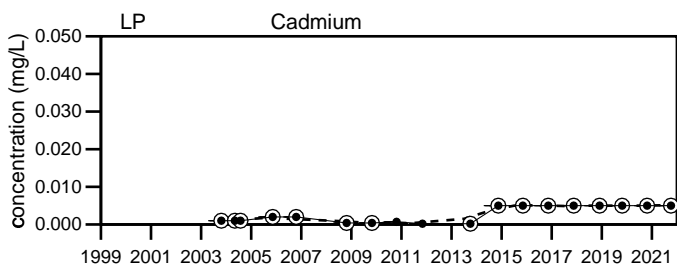
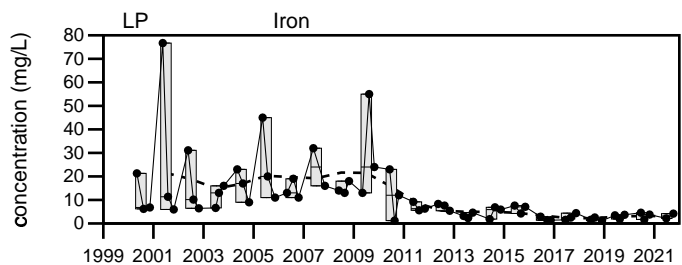
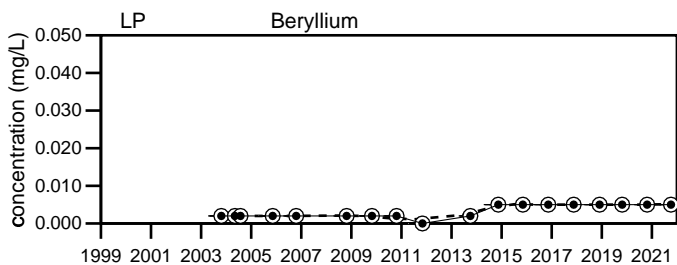
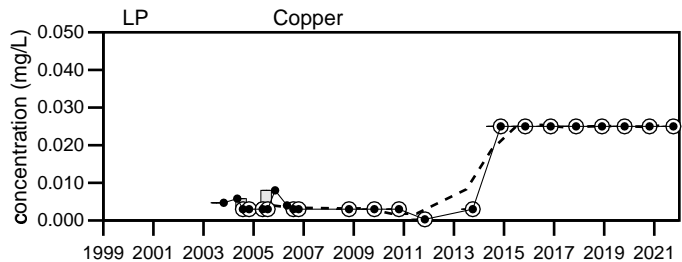
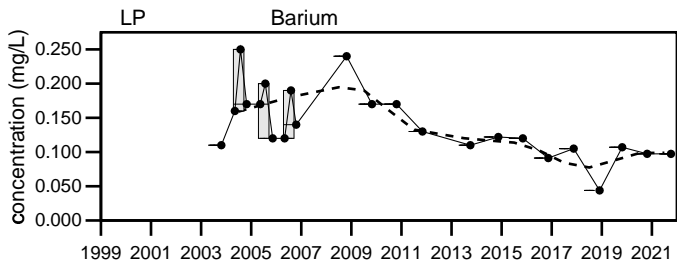
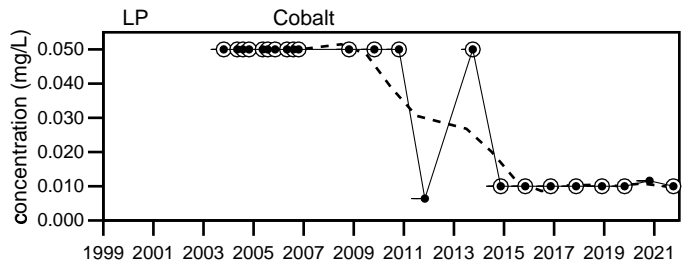
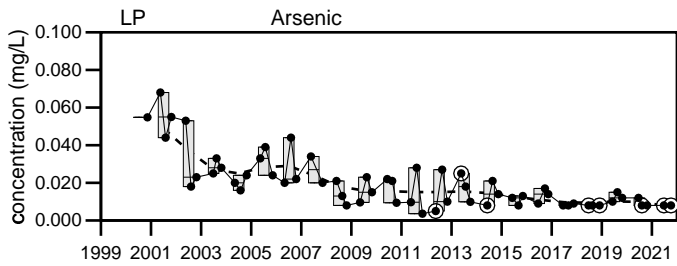
LP

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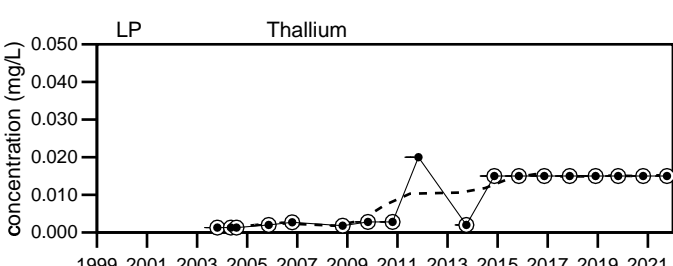
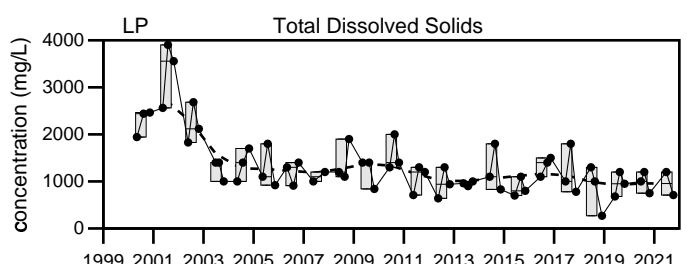
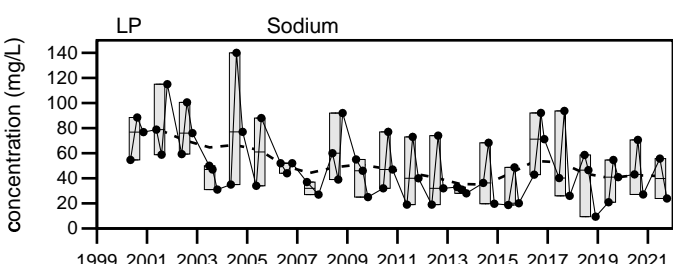
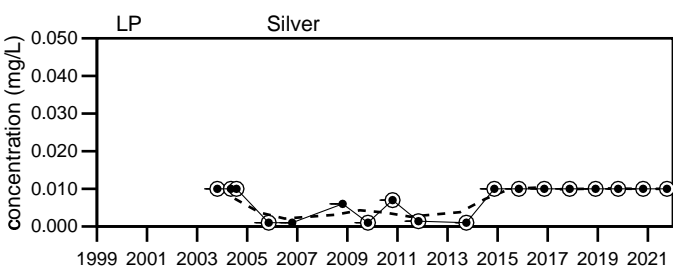
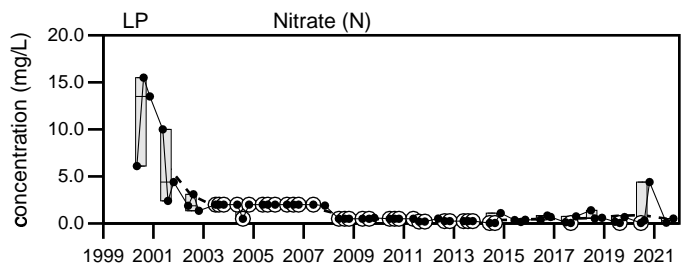
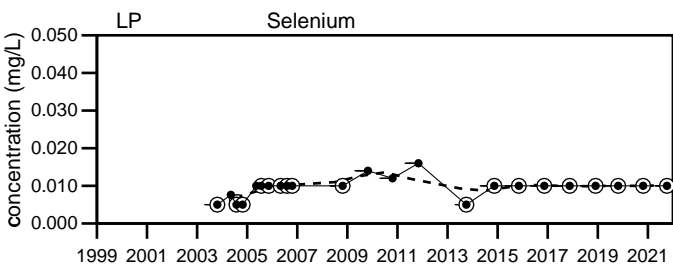
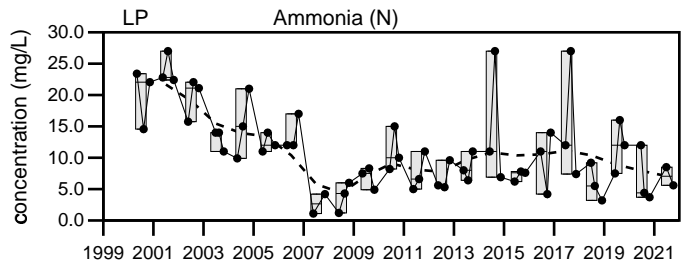
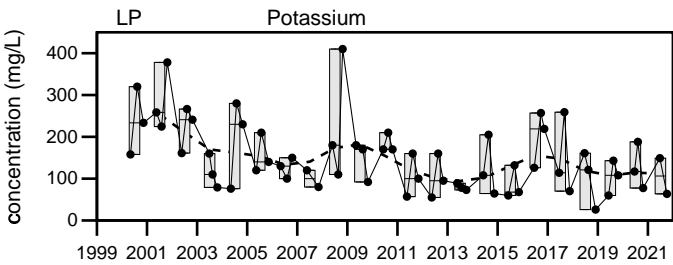
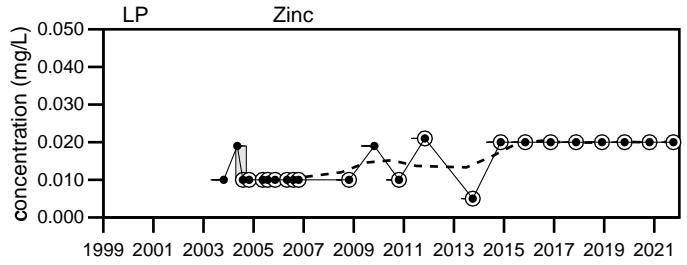
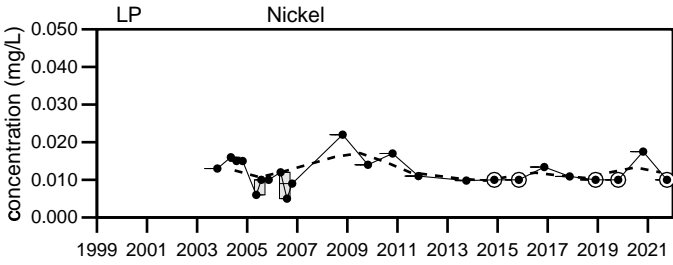
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LP

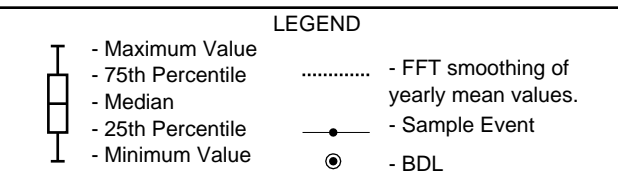
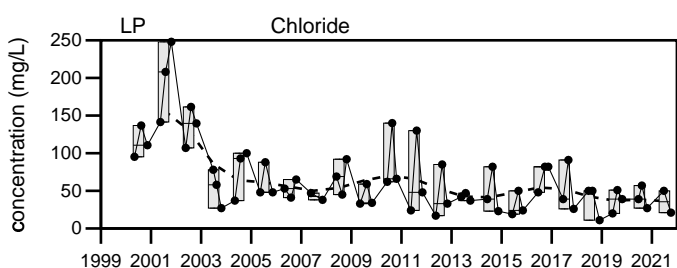
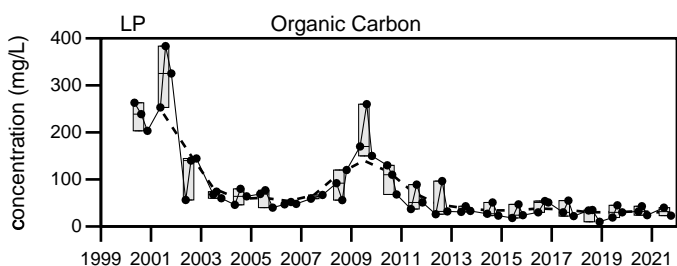
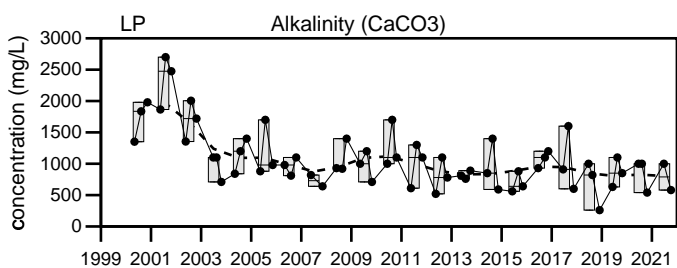
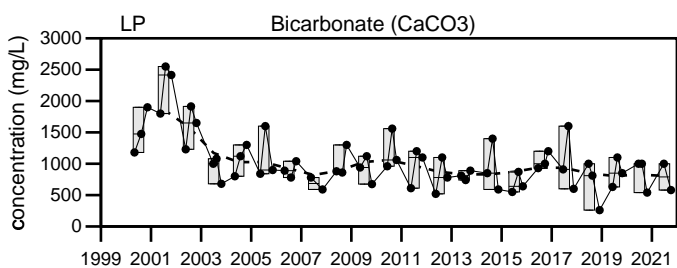
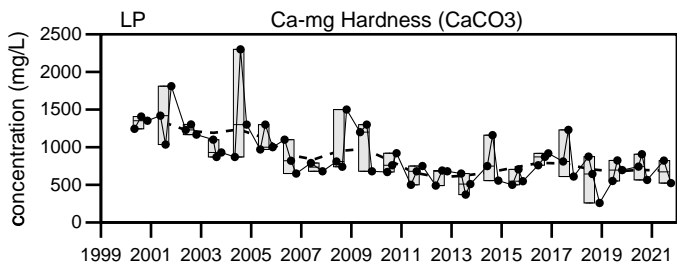
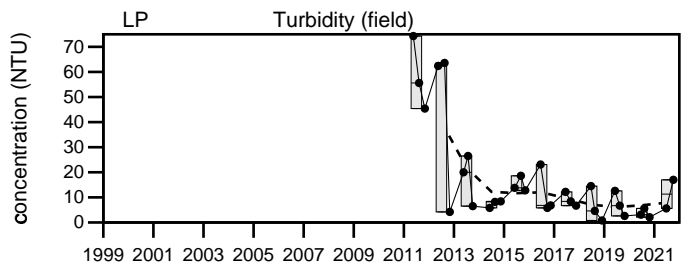
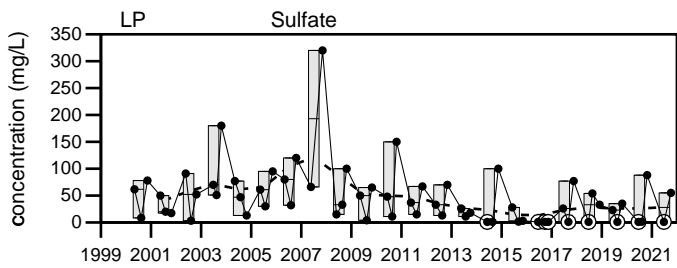


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- - FFT smoothing of yearly mean values.
- - Sample Event
- ⊙ - BDL

Dolby Landfill
LP

Sevee & Maher Engineers, Inc.



Dolby Landfill
LP

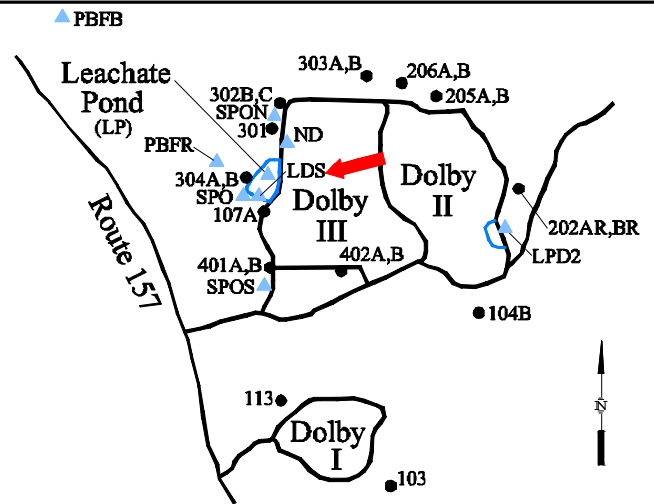
Sevee & Maher Engineers, Inc.

Well Description

Sample from the leak detection system at the Dolby III leachate pond west of landfill.

Sampled: **2 Times Annually**
 Sampled Since: **May-08**

Sampling Method: **Grab**



Chemical Summary

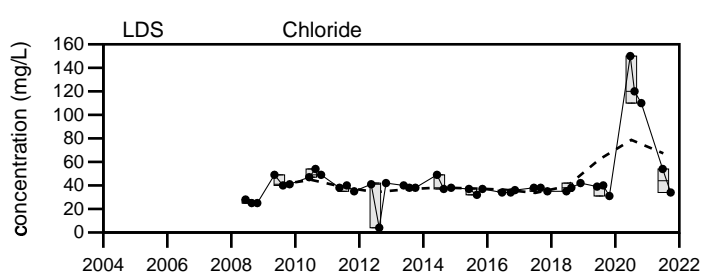
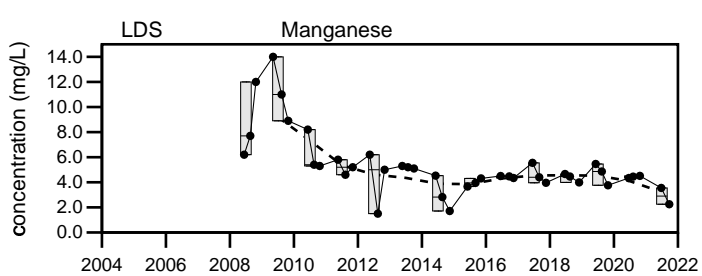
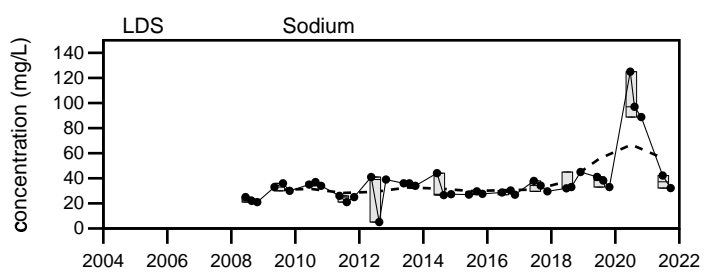
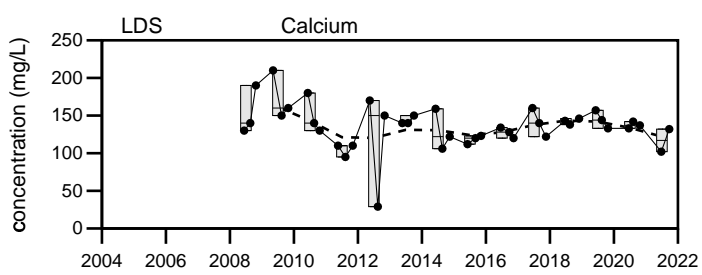
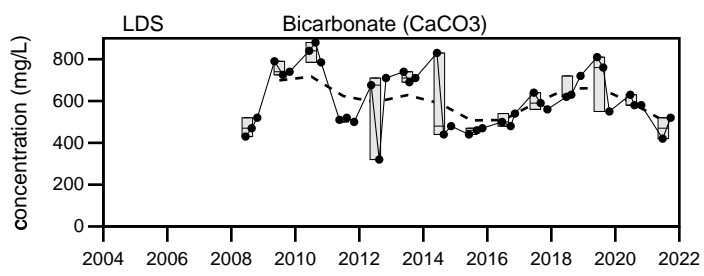
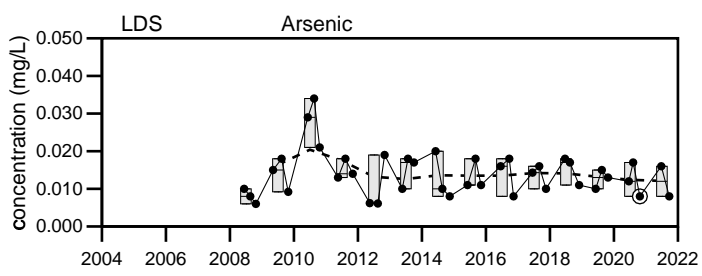
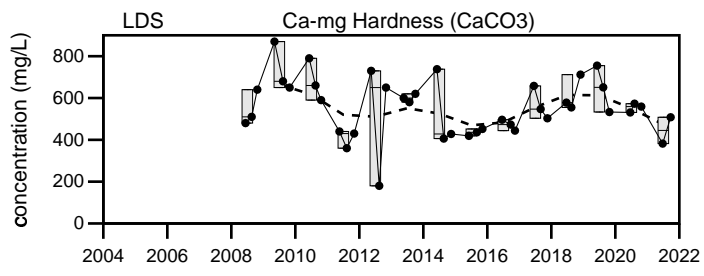
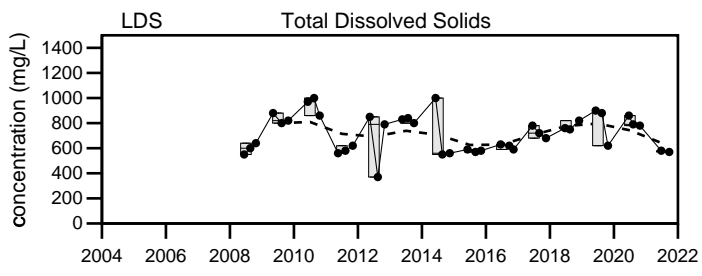
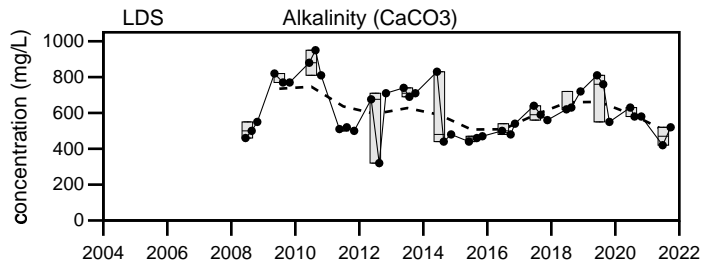
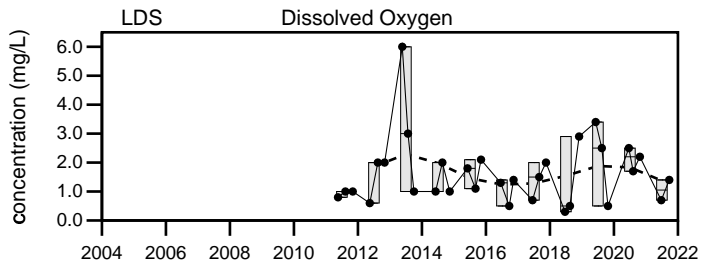
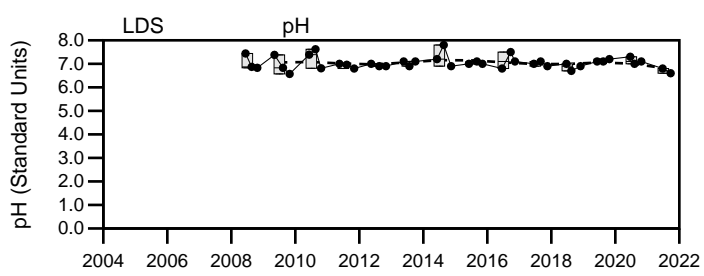
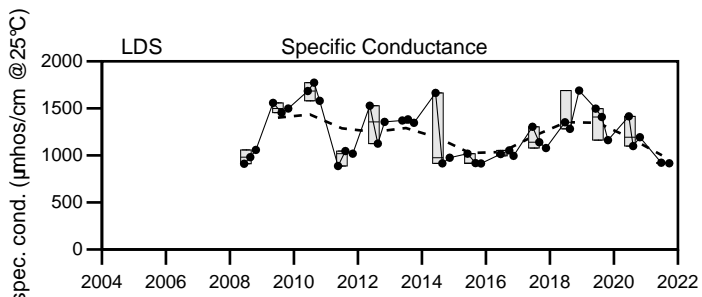
Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		922	916		887	to 1773	1200 ± 42		39
Dissolved Oxygen (mg/L)		0.7	1.4		0.3	to 6	1.7 ± 0.21		30
Total Dissolved Solids (mg/L)		580	570		370	to 1000	730 ± 24		39
Arsenic (mg/L)		0.016	0.008		0.006	to 0.034	0.014 ± 0.001		39
Calcium (mg/L)		102	132		29	to 210	140 ± 4.6		39
Manganese (mg/L)		3.55	2.25		1.5	to 14	5.4 ± 0.4		39
pH (STU)		6.8	6.6		6.57	to 7.8	7.1 ± 0.04		39
Alkalinity (CaCO3) (mg/L)		420	520		320	to 950	620 ± 23		39
Ca-mg Hardness (CaCO3) (mg/L)		382	508		180	to 870	560 ± 22		39
Bicarbonate Alkalinity (CaCO3) (mg/L)		420	520		320	to 880	610 ± 22		39
Sodium (mg/L)		42.2	32.2		5.1	to 125	37 ± 3.4		39
Chloride (mg/L)		54	34		4	to 150	44 ± 4.1		39
Iron (mg/L)		6.16	4.46		2.87	to 24	7.5 ± 0.78		39
Magnesium (mg/L)		31.1	43.4		26	to 87.9	53 ± 2.9		39
Potassium (mg/L)		66.2	16.8		1 U	to 110	45 ± 3.9		39
Sulfate (mg/L)		↑110	16		1 U	to 51	17 ± 1.9		39
Total Suspended Solids (mg/L)		4 U	11		4 U	to 72	16 ± 2.2		39
Turbidity (field) (NTU)		↑8.5	0.3		0	to 5.9	1.8 ± 0.23		31
Ammonia (N) (mg/L)		1.5	0.46		0.2 U	to 7.9	3.2 ± 0.35		39
Nitrate (N) (mg/L)		0.5 U	0.05 U		0.05 U	to 0.5 U	0.21 ± 0.031		39
Organic Carbon (mg/L)		↑85	7.2		6.2	to 49	17 ± 1.6		39

underlined/bold - values exceed a regulatory standard listed below. Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.
 Q3= 9 - 2021

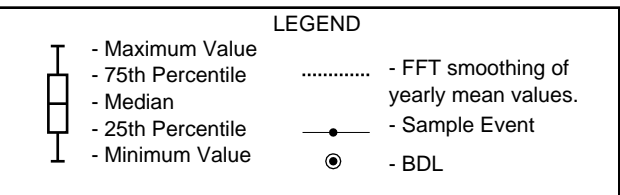
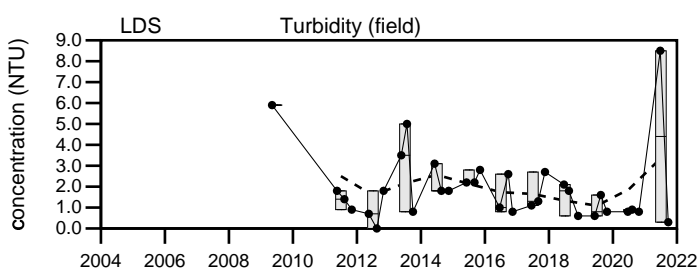
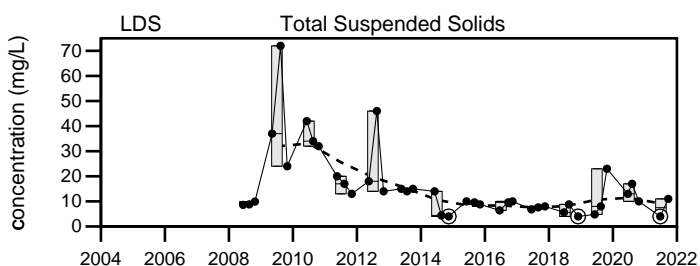
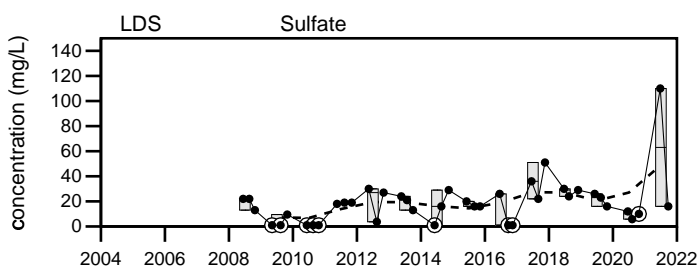
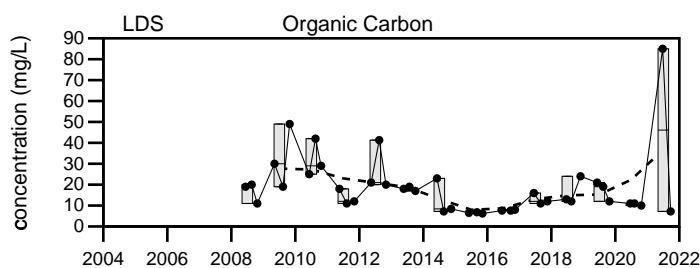
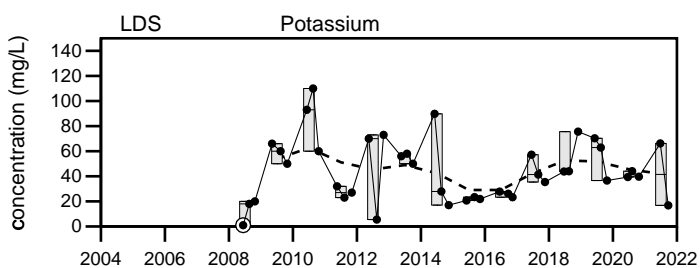
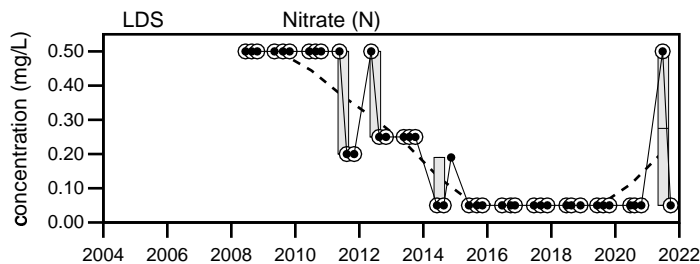
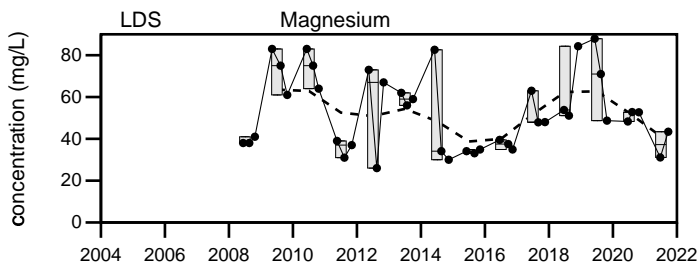
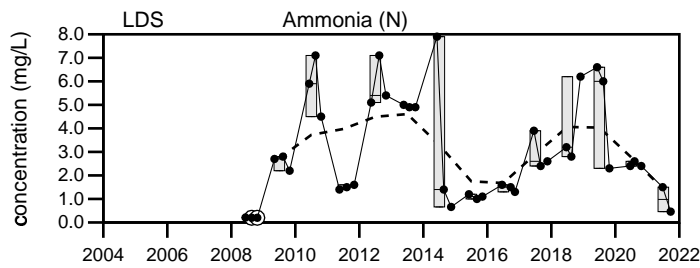
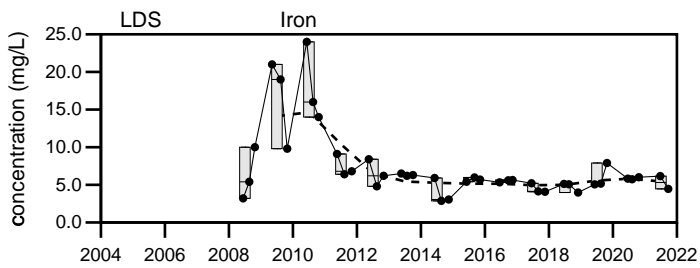


LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill
LDS

Sevee & Maher Engineers, Inc.



Dolby Landfill

LDS

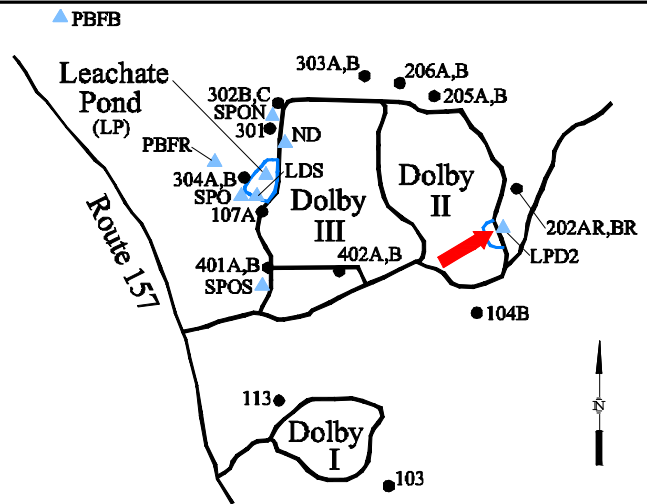
Sevee & Maher Engineers, Inc.

Well Description

Leachate Pond East of Dolby II

Sampled: **2 Times Annually**
 Sampled Since: **May-05**

Sampling Method: **Grab**



Chemical Summary

Indicator Parameters	2021				Historical (1/1/2000 - 12/31/2021)				
	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		402	142		94	to 729	320 ± 23		46
Dissolved Oxygen (mg/L)		5.8	6.8		0.5	to 12.3	5.2 ± 0.39		45
Total Dissolved Solids (mg/L)		260	92		26	to 810	190 ± 19		46
Arsenic (mg/L)		0.008 U	0.008 U		0.0025	to 0.024	0.0074 ± 0.000		46
Calcium (mg/L)		53.2	16.5		12	to 130	33 ± 2.7		46
Manganese (mg/L)		1.23	0.0865		0.023	to 5.1	0.92 ± 0.17		46
pH (STU)		6.7	7		6.3	to 8.29	7.2 ± 0.069		46
Alkalinity (CaCO3) (mg/L)		240	45		21	to 710	150 ± 18		46
Ca-mg Hardness (CaCO3) (mg/L)		244	74.7		44	to 550	150 ± 15		46
Bicarbonate Alkalinity (CaCO3) (mg/L)		240	45		21	to 710	150 ± 17		46
Sodium (mg/L)		4.37	1.62		1 U	to 36	3.8 ± 0.81		46
Chloride (mg/L)		2.8	2 U		0.58	to 41	3.8 ± 0.9		46
Iron (mg/L)		2.94	0.302		0.193	to 15.2	3.5 ± 0.53		46
Magnesium (mg/L)		27.1	8.14		2.8	to 61	17 ± 2.3		46
Potassium (mg/L)		5.55	2.21		1.15	to 52	4.9 ± 1.1		46
Sulfate (mg/L)		14	21		1 U	to 43	12 ± 1.8		46
Total Suspended Solids (mg/L)		6.4	4 U		0.6 U	to 34	9.4 ± 1.2		46
Turbidity (field) (NTU)		1.8	1.8		0	to 55.3	8.9 ± 1.9		46
Ammonia (N) (mg/L)		3.6	0.1 U		0.1 U	to 6.3	2 ± 0.26		46
Nitrate (N) (mg/L)		0.1	4		0.05 U	to 6.2	0.99 ± 0.19		46
Organic Carbon (mg/L)		14	9.9		4	to 43	13 ± 1.4		46

underlined/bold - values exceed a regulatory standard listed below.

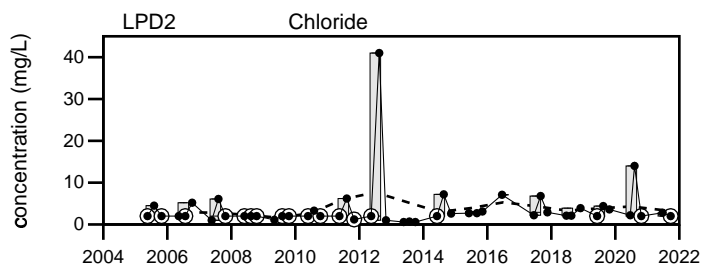
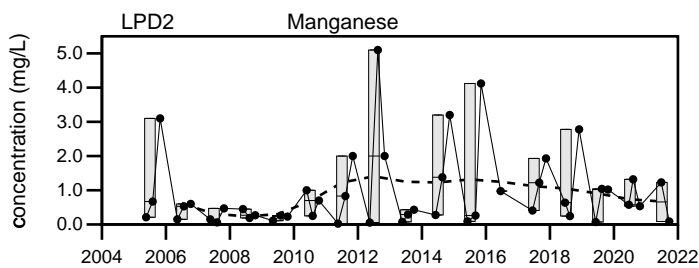
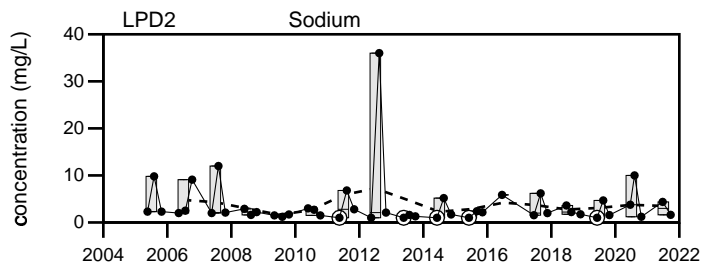
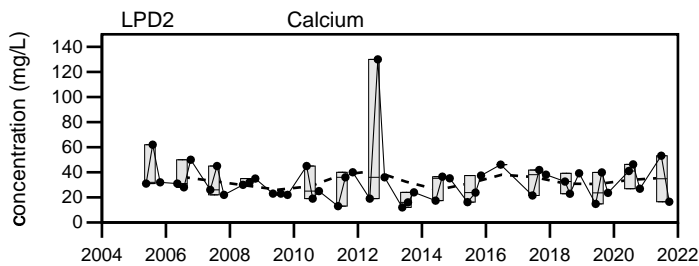
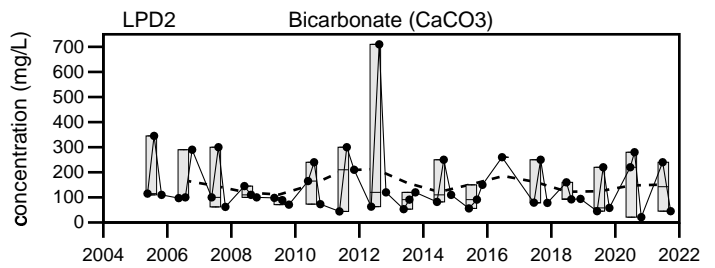
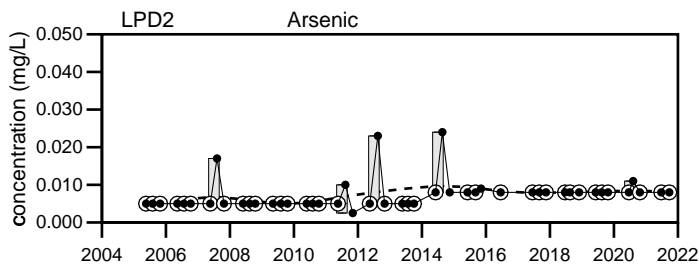
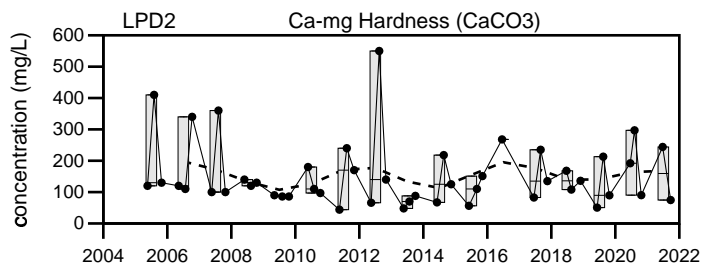
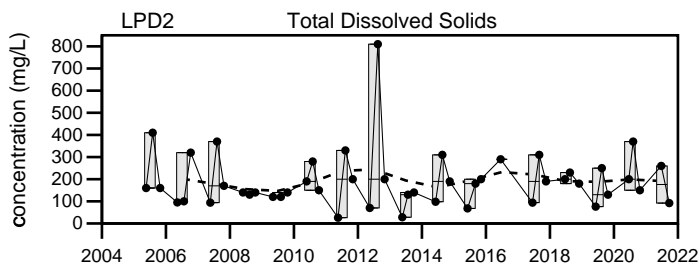
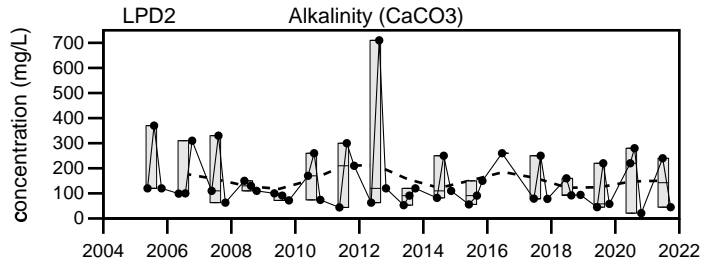
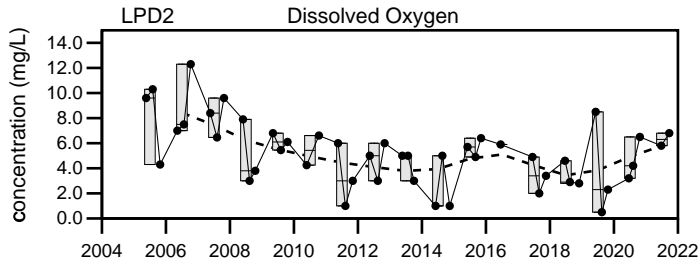
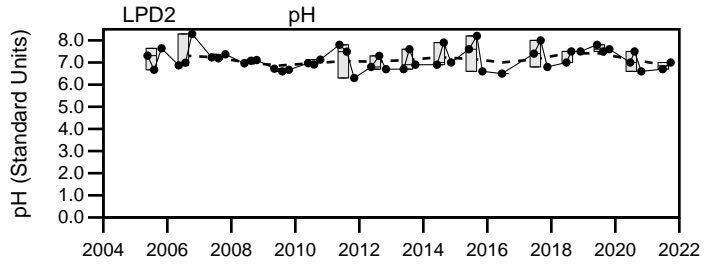
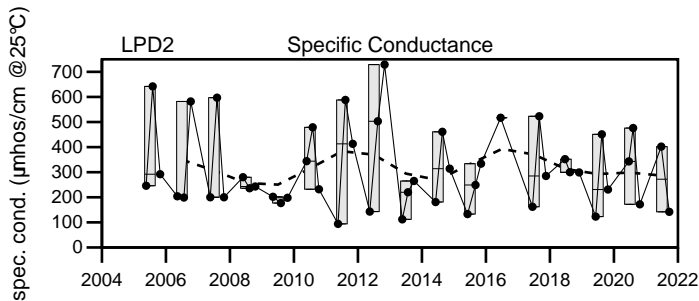
Note that a value associated with a "U" qualifier is a detection or reporting limit provided by the laboratory. If a detection limit is greater than a standard, the result cannot be said to exceed the standard.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 6 - 2021 U = Not Detected above the laboratory reporting limit.

Q3= 9 - 2021



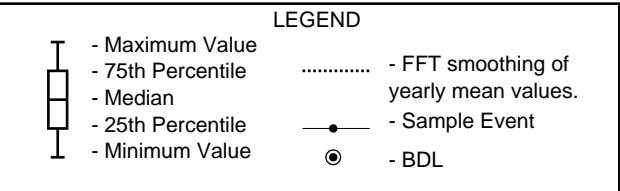
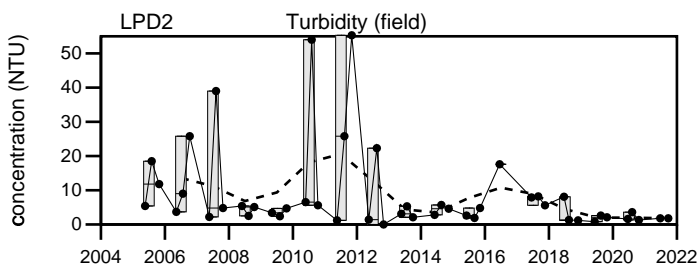
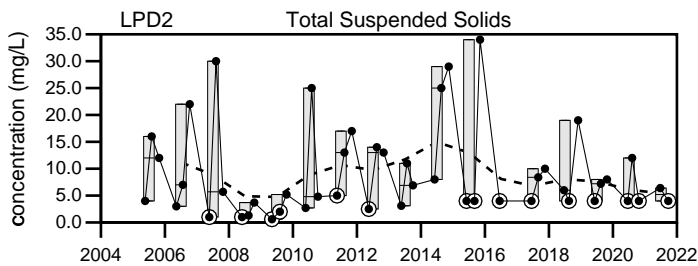
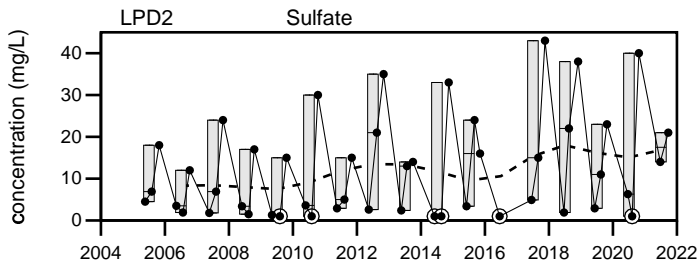
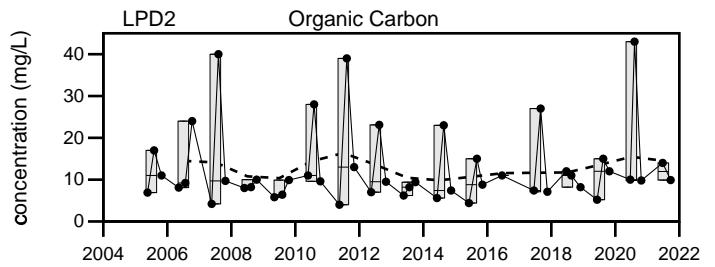
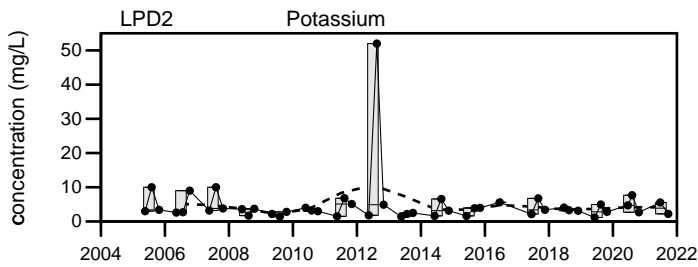
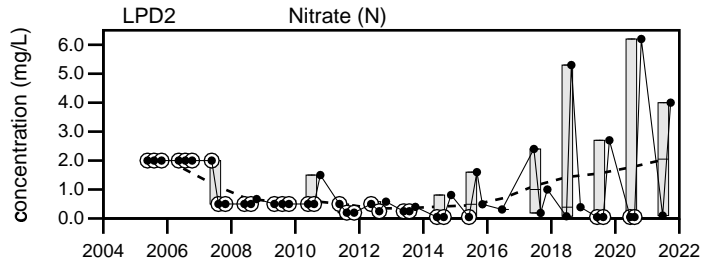
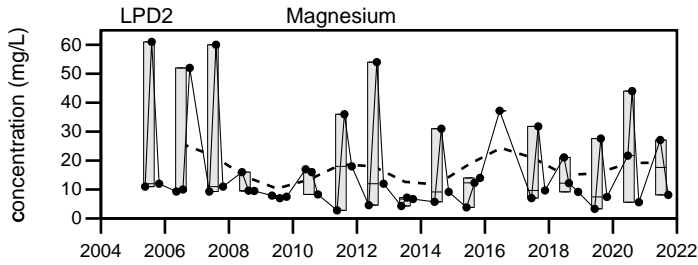
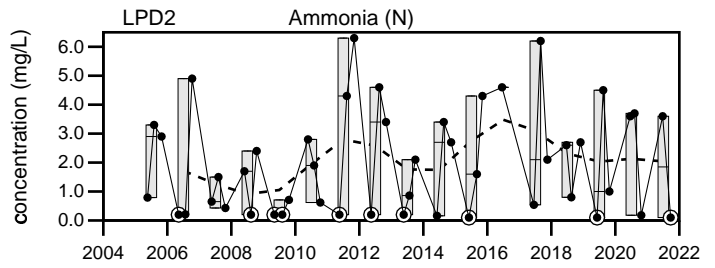
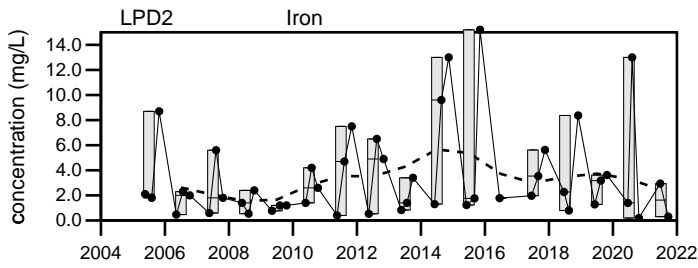
LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Dolby Landfill

LPD2

Sevee & Maher Engineers, Inc.



Dolby Landfill LPD2

Sevee & Maher Engineers, Inc.

APPENDIX L

RESULTS OF MANN-KENDALL ANALYSES

**Summary of Mann-Kendall Trend Analysis
95% Confidence (alpha=0.05)
Dolby Landfill 2021**

3-yr trend: 1/1/2019 to 12/31/2021

5-yr trend: 1/1/2017 to 12/31/2021

LOCATION	Increasing Trends		Decreasing Trends		NoTrends	
	3 Year	5 Year	3 Year	5 Year	3 Year	5 Year
104B	Mn	HCO3, ALK	DO, NO3 - N	Spec Cond, pH, NO3 - N	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., As, Ca, Fe, Mg, K, Na, NH3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fld)	Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, TDS, TSS, SO4, Hard(CaMg), OC, Cl, TURB (fld)
107A	Fe, K, Na, NH3 - N, Hard(CaMg)	Temp, K, NH3 - N			Spec Cond, pH, Temp, Water Elev., WLE NGVD29ft, Water Depth, DO, As, Ca, Mg, Mn, NO3 - N, TDS, TSS, SO4, HCO3, ALK, OC, Cl, TURB (fld)	Spec Cond, pH, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, Na, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fld)
113		Temp, Water Depth, DO, TURB (fld)	pH	Water Elev., WLE NGVD29ft	Spec Cond, Temp, Water Depth, Water Elev., WLE NGVD29ft, DO, TURB (fld)	Spec Cond, pH
202AR	OC	OC	As	Spec Cond, NH3 - N, Cl	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, Cl, TURB (fld)	pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, Na, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, TURB (fld)
205A	Fe		Spec Cond, pH, TURB (fld)	Spec Cond, TDS, SO4, Cl	Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl	pH, Temp, Water Elev., Water Depth, WLE NGVD29ft, DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TSS, Hard(CaMg), HCO3, ALK, OC, TURB (fld)
205B			SO4	SO4, TURB (fld)	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fld)	Spec Cond, pH, Temp, Water Elev., Water Depth, WLE NGVD29ft, DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, Hard(CaMg), HCO3, ALK, OC, Cl
206A	Water Depth	K	Water Elev., WLE NGVD29ft, TURB (fld)	TURB (fld)	Spec Cond, pH, Temp, DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl	Spec Cond, pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, DO, As, Ca, Fe, Mg, Mn, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl
301		Mg, Na	Spec Cond, TDS, SO4, Cl	Spec Cond, Ca, TDS, Cl, TURB (fld)	pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TSS, Hard(CaMg), HCO3, ALK, OC, TURB (fld)	pH, Temp, Water Elev., WLE NGVD29ft, Water Depth, DO, As, Fe, Mn, K, NH3 - N, NO3 - N, TSS, SO4, Hard(CaMg), HCO3, ALK, OC
302B		Ca, Mg, Mn, K, Na, NH3 - N, Hard(CaMg), HCO3, ALK, OC		SO4	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fld)	Spec Cond, pH, Temp, Water Elev., Water Depth, WLE NGVD29ft, DO, As, Fe, NO3 - N, TDS, TSS, Cl, TURB (fld)
302C		Ca, Mg, Mn, K, Na, Hard(CaMg), HCO3, ALK, OC	DO		Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fld)	Spec Cond, pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, DO, As, Fe, NH3 - N, NO3 - N, TDS, TSS, SO4, Cl, TURB (fld)
303A	Ca, Mg, Na, NH3 - N, Hard(CaMg), HCO3, ALK	Water Depth		Spec Cond, WLE NGVD29ft, Water Elev., TURB (fld)	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Fe, Mn, K, NO3 - N, TDS, TSS, SO4, OC, Cl, TURB (fld)	pH, Temp, DO, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl

303B		Water Depth, Mn, NH3 - N	DO	WLE NGVD29ft, Water Elev.	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)	Spec Cond, pH, Temp, DO, As, Ca, Fe, Mg, K, Na, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)
304A	Temp, Na, HCO3, ALK	Temp, Na	pH	pH, SO4	Spec Cond, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), OC, Cl, TURB (fid)	Spec Cond, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mg, Mn, K, NH3 - N, NO3 - N, TDS, TSS, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)
304B		Temp, Ca, Fe, Mg, Mn, Na, Hard(CaMg), HCO3, ALK, Cl	pH, DO	DO	Spec Cond, Temp, Water Elev., Water Depth, WLE NGVD29ft, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)	Spec Cond, pH, Water Elev., Water Depth, WLE NGVD29ft, As, K, NH3 - N, NO3 - N, TDS, TSS, SO4, OC, TURB (fid)
401A		Temp, Mg, K, Hard(CaMg), HCO3, ALK	DO		Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)	Spec Cond, pH, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mn, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, OC, Cl, TURB (fid)
401B	Temp	Temp, Ca, Mg, HCO3, ALK	pH, DO, SO4	Spec Cond, pH, SO4, Cl	Spec Cond, Water Elev., WLE NGVD29ft, Water Depth, As, Ca, Fe, Mg, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)	Water Elev., Water Depth, WLE NGVD29ft, DO, As, Fe, Mn, K, Na, NH3 - N, NO3 - N, TDS, TSS, Hard(CaMg), OC, TURB (fid)
402A	Mg, Na, HCO3, ALK, OC	Ca, Fe, Mg, Mn, Na, Hard(CaMg), HCO3, ALK, OC		pH	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, As, Ca, Fe, Mn, K, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), Cl, TURB (fid)	Spec Cond, Temp, Water Elev., WLE NGVD29ft, Water Depth, DO, As, K, NH3 - N, NO3 - N, TDS, TSS, SO4, Cl, TURB (fid)
402B	Fe, Mn, SO4	DO, Fe, K, SO4	Spec Cond, TDS	Spec Cond, Ca, Na, TDS, Hard(CaMg), HCO3, Cl	pH, Temp, Water Elev., WLE NGVD29ft, Water Depth, DO, As, Ca, Mg, K, Na, NH3 - N, NO3 - N, TSS, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)	pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., As, Mg, Mn, NH3 - N, NO3 - N, TSS, ALK, OC, TURB (fid)
103		Spec Cond				pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., DO, TURB (fid)
206B		Mn				Spec Cond, pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, DO, As, Ca, Fe, Mg, K, Na, NH3 - N, NO3 - N, TDS, TSS, SO4, Hard(CaMg), HCO3, ALK, OC, Cl, TURB (fid)

Key

Ag = Silver	Al = Aluminum	ALK = Alkalinity (CaCO ₃)
As = Arsenic	Ba = Barium	Be = Beryllium
Ca = Calcium	Cd = Cadmium	Cl = Chloride
Co = Cobalt	Cr = Chromium	Cu = Copper
DO = Dissolved Oxygen	Fe = Iron	Hard(CaMg) = Ca-mg Hardness (CaCO ₃)
HCO ₃ = Bicarbonate Alkalinity (CaCO ₃)	K = Potassium	Mg = Magnesium
Mn = Manganese	Na = Sodium	NH ₃ - N = Ammonia (N)
Ni = Nickel	NO ₃ - N = Nitrate (N)	OC = Organic Carbon
P = Total Phosphorus Mixed Forms (PO ₄ and Organic)	Pb = Lead	pH = pH
Sb = Antimony	Se = Selenium	SO ₄ = Sulfate
Spec Cond = Specific Conductance	TDS = Total Dissolved Solids	Temp = Temperature
Tl = Thallium	TSS = Total Suspended Solids	TURB (fld) = Turbidity (field)
Water Depth = Water Level Depth	Water Elev. = Water Level Elevation	Well Depth = Well Depth
Zn = Zinc		

- Values below the laboratory PQL (non-detects) are divided by 2. All other data qualifiers are ignored but any associated value is used.
- Samples collected for data quality control are not analyzed.
- Data sets with less than 5 data points are not analyzed.
- Data sets with a period shorter than the intended period of analysis (e.g. 3-yr analysis or 5-yr analysis) are not analyzed.
- Significant events in historical data can affect the distribution in a way that compromises the assumption of a monotonic data set. Events could include the cessation of filtering, a spill, changing sampling protocols or analytical method changes that alter the detection limit.

REFERENCES:

- State of Wisconsin, Department of Natural Resources, Remediation and Redevelopment Program Mann-Kendall Statistical Test, Form 4400-215 (2/2001)
- Gilbert, R.O., Statistical Methods for Environmental Pollution Monitoring, Van Nostrand Reinhold, 1987, pp. 204 – 240 and 272.
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APPENDIX M

LANDFILL GAS MONITORING RESULTS

SUMMARY REPORT
 Landfill Gas Monitoring

(107B)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)													
Date	% Vol.	% Vol.	ppm	ppm													
107B																	
5/17/2011	0.1 US	0.1 US	0	0													
8/10/2011	0.1 US	0.1 US	0	0													
11/3/2011	0.1 US	0.1 US	0	0													
1/10/2012	0.1 US	0.1 US	0	0													
5/14/2012	0.1 US	0.1 US	0	0													
8/14/2012	0.1 US	0.1 US	0	0													
10/31/2012	0.1 US	0.1 US	0	0													
5/20/2013	0.1 US	0.1 US	0	0													
7/24/2013	0.1 US	0.1 US	0	0													
10/1/2013	0.1 US	0.1 US	0	0													
6/2/2014	0.1 US	0.1 US	0	0													
8/18/2014	0.1 US	0.1 US	0	0													
11/10/2014	0.1 US	0.1 US	0	0													
6/1/2015	0.1 US	0.1 US	0	0													
9/3/2015	0.1 US	0.1 US	0	0													
12/17/2015	0.1 US	0.1 US	0	0													
6/13/2016	0.1 US	0.1 US	0	0													
9/19/2016	0.1 US	0.1 US	0	0													
11/7/2016	0.1 US	0.1 US	0	0													
6/12/2017	0.1 US	0.1 US	0	0													
8/28/2017	0.1 US	0.1 US	0	0													
11/13/2017	0.1 US	0.1 US	0	0													
6/18/2018	0.1 US	0.1 US	0	0													
8/13/2018	0.1 US	0.1 US	0	0													
11/26/2018	0.1 US	0.1 US	0	0													
6/3/2019	0.1 US	0.1 US	0	0													
8/12/2019	0.1 US	0.1 US	0	0													
10/21/2019	0.1 US	0.1 US	0	0													
6/15/2020	0.1 US	0.1 US	0	0													
8/3/2020	0.1 US	0.1 US	0	0													
10/19/2020	0.1 US	0.1 US	0	0													
6/21/2021	0.1 US	0.1 US	0	0													
9/20/2021	0.1 US	0.1 US	0	0													
CB-13																	
5/17/2011	0.3	0.1 US	0	0													
8/10/2011	3.8	0.1 US	0	0													
11/3/2011	1.2	0.1 US	1	0													
1/10/2012	1.3	0.1 US	6	0													
5/14/2012	0.1 US	0.1 US	0	0													
8/14/2012	0.1 US	0.1 US	0	0													
10/31/2012	0.5	0.1 US	0	0													
5/20/2013	0.1	0.1 US	0	0													
7/24/2013	0.3	0.1 US	0	0													
10/1/2013	0.1 US	0.1 US	2	0													
6/2/2014	0.1 US	0.1 US	0	0													
8/18/2014	0.1 US	0.1 US	0	0													
11/10/2014	1	0.1 US	0	0													

SUMMARY REPORT
 Landfill Gas Monitoring

(CB-13)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)														
Date	% Vol.	% Vol.	ppm	ppm														
6/1/2015	0.5	0.1 US	0	0														
9/3/2015	0.1 US	0.1 US	0	0														
12/17/2015	2.2	0.1 US	2	0														
6/13/2016	0.1 US	0.1 US	0	0														
9/19/2016	0.1 US	0.1 US	0	0														
11/7/2016	0.1 US	0.1 US	0	0														
6/12/2017	0.1 US	0.1 US	0	0														
8/28/2017	0.1 US	0.1 US	0	0														
11/13/2017	0.1 US	0.1 US	0	0														
6/18/2018	0.1 US	0.1 US	0	0														
8/13/2018	0.1 US	0.1 US	0	0														
11/26/2018	0.5	0.1 US	0	0														
6/3/2019	0.1 US	0.1 US	0	0														
8/12/2019	0.1 US	0.1 US	0	0														
10/21/2019	0.1 US	0.1 US	0	0														
6/15/2020	0.1 US	0.1 US	0	0														
8/3/2020	0.1 US	0.1 US	0	0														
10/19/2020	0.1 US	0.1 US	0	0														
6/21/2021	0.1 US	0.1 US	0	0														
9/20/2021	0.1 US	0.1 US	0	0														
CB-21																		
5/17/2011	2.2	0.1	11	0														
8/10/2011	1.5	0.1 US	2	0														
11/3/2011	7.5	0.1 US	36	0														
1/10/2012	1.5	0.1 US	8	0														
5/14/2012	0.2	0.1 US	0	0														
8/14/2012	0.8	0.1 US	0	0														
10/31/2012	2.2	0.1 US	7	0														
5/20/2013	0.2	0.1 US	0	0														
7/24/2013	0.1 US	0.1 US	0	0														
10/1/2013	0.1 US	0.1 US	0	0														
6/2/2014	0.3	0.1 US	0	0														
8/18/2014	1.4	0.1 US	0	0														
11/10/2014	0.3	0.1 US	0	0														
6/1/2015	1.3	0.1 US	0	0														
9/3/2015	0.1 US	0.1 US	0	0														
12/17/2015	1.7	0.1 US	0	0														
6/13/2016	0.1 US	0.1 US	0	0														
9/19/2016	0.1 US	0.1 US	0	0														
11/7/2016	0.7	0.1 US	0	0														
6/12/2017	1.8	0.1 US	0	0														
8/28/2017	0.1 US	0.1 US	0	0														
11/13/2017	0.1 US	0.1 US	0	0														
6/18/2018	2.4	0.1 US	3	0														
8/13/2018	0.1	0.1 US	0	0														
11/26/2018	0.3	0.1 US	0	0														
6/3/2019	0.1 US	0.1 US	0	0														
8/12/2019	1.7	0.1 US	1.1	0														
10/21/2019	0.1 US	0.1 US	0	0														

SUMMARY REPORT
 Landfill Gas Monitoring

(CB-21)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)													
Date	% Vol.	% Vol.	ppm	ppm													
6/15/2020	0.1 US	0.1 US	0	0													
8/3/2020	0.1 US	0.1 US	0	0													
10/19/2020	0.1 US	0.1 US	0	0													
6/21/2021	5	0.1 US	0	0													
9/20/2021	0.15	0.1 US	0	0													
CB-22																	
5/17/2011	0.1 US	0.1 US	0	0													
8/10/2011	0.1 US	0.1 US	0	0													
11/3/2011	0.1 US	0.1 US	0	0													
1/10/2012	0.1 US	0.1 US	0	0													
5/14/2012	1.3	0.1 US	1	0													
8/14/2012	2.6	0.1 US	0	0													
10/31/2012	0.1 US	0.1 US	0	0													
5/20/2013	0.1 US	0.1 US	0	0													
7/24/2013	0.1 US	0.1 US	0	0													
10/1/2013	0.5	0.1 US	0	0													
6/2/2014	0.1 US	0.1 US	0	0													
8/18/2014	0.1 US	0.1 US	0	0													
11/10/2014	0.1 US	0.1 US	0	0													
6/1/2015	0.1 US	0.1 US	0	0													
9/3/2015	0.1 US	0.1 US	0	0													
12/17/2015	0.2	0.1 US	0	0													
6/13/2016	0.1 US	0.1 US	0	0													
9/19/2016	0.1 US	0.1 US	0	0													
11/7/2016	0.1 US	0.1 US	0	0													
6/12/2017	1.1	0.1 US	1	0													
8/28/2017	0.1 US	0.1 US	0	0													
11/13/2017	0.1 US	0.1 US	0	0													
6/18/2018	0.1 US	0.1 US	0	0													
8/13/2018	0.3	0.1 US	0	0													
11/26/2018	0.1 US	0.1 US	0	0													
6/3/2019	0.1 US	0.1 US	0	0													
8/12/2019	2.6	0.1 US	0	0													
10/21/2019	0.1	0.1 US	0	0													
6/15/2020	0.1 US	0.1 US	0	0													
8/3/2020	0.1 US	0.1 US	0	0													
10/19/2020	0.1 US	0.1 US	0	0													
6/21/2021	0.1 US	0.1 US	0	0													
9/20/2021	0.1 US	0.1 US	0	0													
CB-30																	
5/17/2011	0.6	0.1 US	3	0													
8/10/2011	0.1 US	0.1 US	0	0													
11/3/2011	3.5	0.1 US	2	0													
1/10/2012	0.1 US	0.1 US	0	0													
5/14/2012	4.3	0.1 US	12	0													
8/14/2012	2.2	0.1 US	0	0													
10/31/2012	0.1 US	0.1 US	0	0													
5/20/2013	0.1 US	0.1 US	0	0													

SUMMARY REPORT
 Landfill Gas Monitoring

(CB-30)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)														
Date	% Vol.	% Vol.	ppm	ppm														
7/24/2013	3	0.1 US	2	0														
10/1/2013	0.5	0.1 US	0	0														
6/2/2014	0.1 US	0.1 US	0	0														
8/18/2014	3.2	0.1 US	0	0														
11/10/2014	0.1 US	0.1 US	0	0														
6/1/2015	2.5	0.1 US	0	0														
9/3/2015	15	0.1 US	0	0														
12/17/2015	0.1 US	0.1 US	0	0														
6/13/2016	1.2	0.1 US	1	0														
9/19/2016	!	!	!	!														
11/7/2016	!	!	!	!														
6/12/2017	!	!	!	!														
8/28/2017	!	!	!	!														
11/13/2017	!	!	!	!														
6/18/2018	!	!	!	!														
8/13/2018	!	!	!	!														
11/26/2018	!	!	!	!														
CB-35																		
5/17/2011	0.1 US	0.1 US	0	0														
8/10/2011	6.3	0.1 US	55	0														
11/3/2011	0.1 US	0.1 US	0	0														
1/10/2012	1.2	0.1 US	5	0														
5/14/2012	0.1 US	0.1 US	0	0														
8/14/2012	0.1 US	0.1 US	0	0														
10/31/2012	0.5	0.1 US	1	0														
5/20/2013	0.1 US	0.1 US	0	0														
7/24/2013	23.7	0.1 US	17	0														
10/1/2013	0.1 US	0.1 US	0	0														
6/2/2014	0.1 US	0.1 US	0	0														
8/18/2014	0.1 US	0.1 US	0	0														
11/10/2014	0.1 US	0.1 US	0	0														
6/1/2015	0.1 US	0.1 US	0	0														
9/3/2015	0.1 US	0.1 US	0	0														
12/17/2015	2.8	0.1 US	12	0														
6/13/2016	0.1 US	0.1 US	0	0														
9/19/2016	0.1 US	0.1 US	0	0														
11/7/2016	0.8	0.1 US	1	0														
6/12/2017	0.1 US	0.1 US	0	0														
8/28/2017	0.1 US	0.1 US	0	0														
11/13/2017	15	0.1 US	5	0														
6/18/2018	0.1 US	0.1 US	0	0														
8/13/2018	0.1 US	0.1 US	0	0														
11/26/2018	1.2	0.1 US	30	0														
6/3/2019	0.1 US	0.1 US	0	0														
8/12/2019	0.1 US	0.1 US	0	0														
10/21/2019	0.1 US	0.1 US	0	0														
6/15/2020	0.1 US	0.1 US	0	0														
8/3/2020	0.1 US	0.1 US	0	0														
10/19/2020	0.1 US	0.1 US	0	0														

SUMMARY REPORT
 Landfill Gas Monitoring

(CB-35)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)													
Date	% Vol.	% Vol.	ppm	ppm													
6/21/2021	0.1 US	0.1 US	0	0													
9/20/2021	0.1 US	0.1 US	0	0													
CB-39																	
5/17/2011	0.1	0.1 US	0	0													
8/10/2011	0.1 US	0.1 US	0	0													
11/3/2011	0.1 US	0.1 US	0	0													
1/10/2012	0.1	0.1 US	0	0													
5/14/2012	0.3	0.1 US	0	0													
8/14/2012	5	0.1 US	0	0													
10/31/2012	3.9	0.1 US	0	0													
5/20/2013	0.6	0.1 US	0	0													
7/24/2013	7.2	0.1 US	0	0													
10/1/2013	1.3	0.1 US	0	0													
6/2/2014	0.2	0.1 US	0	0													
8/18/2014	0.1 US	0.1 US	0	0													
11/10/2014	0.1 US	0.1 US	0	0													
6/1/2015	0.1 US	0.1 US	0	0													
9/3/2015	0.1 US	0.1 US	0	0													
12/17/2015	0.7	0.1 US	0	0													
6/13/2016	0.1 US	0.1 US	0	0													
9/19/2016	0.1 US	0.1 US	0	0													
11/7/2016	0.1 US	0.1 US	0	0													
6/12/2017	0.3	0.1 US	0	0													
8/28/2017	0.1 US	0.1 US	0	0													
11/13/2017	0.1 US	0.1 US	0	0													
6/18/2018	0.1 US	0.1 US	0	0													
8/13/2018	0.1	0.1 US	0	0													
11/26/2018	1	0.1 US	0	0													
6/3/2019	0.1 US	0.1 US	0	0													
8/12/2019	0.8	0.1 US	0	0													
10/21/2019	0.3	0.1 US	0	0													
6/15/2020	0.1 US	0.1 US	0	0													
8/3/2020	0.1 US	0.1 US	0	0													
10/19/2020	0.1 US	0.1 US	0	0													
6/21/2021	0.1 US	0.1 US	0	0													
9/20/2021	0.1 US	0.1 US	0	0													
CB-4																	
5/17/2011	3.2	0.1 US	3	0													
8/10/2011	10.8	0.1 US	10	0													
11/3/2011	8.6	0.1 US	16	0													
1/10/2012	8.1	0.1 US	31	0													
5/14/2012	1.6	0.1 US	1	0													
8/14/2012	7.3	0.1 US	10	0													
10/31/2012	0.1	0.1 US	0	0													
5/20/2013	7.79	0.1 US	1	0													
7/24/2013	0.1 US	0.1 US	0	0													
10/1/2013	11.6	0.1 US	0	0													
6/2/2014	12.5	0.1 US	6	0													

SUMMARY REPORT
 Landfill Gas Monitoring

(CB-4)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)													
Date	% Vol.	% Vol.	ppm	ppm													
8/18/2014	8.9	0.1 US	7	0													
11/10/2014	1.9	0.1 US	0	0													
6/1/2015	6.2	0.1 US	0	0													
9/3/2015	26	0.1 US	1	0													
12/17/2015	3.7	0.1 US	0	0													
6/13/2016	7.8	0.1 US	4	0													
9/19/2016	0.1 US	0.1 US	0	0													
11/7/2016	8.4	0.1 US	3	0													
6/12/2017	7.7	0.1 US	1	0													
8/28/2017	5	0.1 US	0	0													
11/13/2017	23	0.1 US	0	0													
6/18/2018	0.8	0.1 US	5.5	0													
8/13/2018	12	0.1 US	0	0													
11/26/2018	0.3	0.1 US	0	0													
6/3/2019	14	0	0	0													
8/12/2019	5	0.1 US	4	0													
10/21/2019	37	0.1 US	1	0													
6/15/2020	15	0.1 US	1	0													
8/3/2020	0.5	0.1 US	0	0													
10/19/2020	17	0.1 US	0	0													
6/21/2021	13	0.1 US	3.5	0													
9/20/2021	12	0.1 US	0	0													
CB-43																	
5/17/2011	0.3	0.1 US	2	0													
8/10/2011	0.1 US	0.1 US	0	0													
11/3/2011	3.1	0.1 US	0	0													
1/10/2012	1.1	0.1 US	0	0													
5/14/2012	0.1	0.1 US	0	0													
8/14/2012	0.1 US	0.1 US	0	0													
10/31/2012	0.6	0.1 US	0	0													
5/20/2013	0.3	0.1 US	0	0													
7/24/2013	3.5	0.1 US	0	0													
10/1/2013	0.5	0.1 US	0	0													
6/2/2014	0.2	0.1 US	0	0													
8/18/2014	0.1 US	0.1 US	0	0													
11/10/2014	0.1 US	0.1 US	0	0													
6/1/2015	0.1 US	0.1 US	0	0													
9/3/2015	0.1 US	0.1 US	0	0													
12/17/2015	0.7	0.1 US	0	0													
6/13/2016	0.1 US	0.1 US	0	0													
9/19/2016	0.1 US	0.1 US	0	0													
11/7/2016	0.1 US	0.1 US	0	0													
6/12/2017	0.1 US	0.1 US	0	0													
8/28/2017	0.1 US	0.1 US	0	0													
11/13/2017	0.1 US	0.1 US	0	0													
6/18/2018	1.5	0.1 US	0	0													
8/13/2018	0.7	0.1 US	0	0													
11/26/2018	0.1 US	0.1 US	0	0													
6/3/2019	0.1 US	0.1 US	0	0													

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 Landfill Gas Monitoring

(CB-43)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)													
Date	% Vol.	% Vol.	ppm	ppm													
8/12/2019	0.1 US	0.1 US	0	0													
10/21/2019	0.1 US	0.1 US	0	0													
6/15/2020	0.1 US	0.1 US	0	0													
8/3/2020	0.1 US	0.1 US	0	0													
10/19/2020	0.1 US	0.1 US	0	0													
6/21/2021	0.1 US	0.1 US	0	0													
9/20/2021	9	0.1 US	0	0													
CB-45																	
5/17/2011	0.1 US	0.1 US	0	0													
8/10/2011	0.3	0.1 US	0	0													
11/3/2011	1.6	0.1 US	0	0													
1/10/2012	0.5	0.1 US	0	0													
5/14/2012	0.1 US	0.1 US	0	0													
8/14/2012	0.1 US	0.1 US	0	0													
10/31/2012	0.2	0.1 US	0	0													
5/20/2013	0.1	0.1 US	0	0													
7/24/2013	0.1 US	0.1 US	0	0													
10/1/2013	0.1 US	0.1 US	0	0													
6/2/2014	0.2	0.1 US	0	0													
8/18/2014	0.1 US	0.1 US	0	0													
11/10/2014	0.2	0.1 US	0	0													
6/1/2015	0.1 US	0.1 US	0	0													
9/3/2015	0.1 US	0.1 US	0	0													
12/17/2015	0.1 US	0.1 US	0	0													
6/13/2016	0.1 US	0.1 US	0	0													
9/19/2016	0.1 US	0.1 US	0	0													
11/7/2016	0.1 US	0.1 US	0	0													
6/12/2017	0.3	0.1 US	0	0													
8/28/2017	0.1 US	0.1 US	0	0													
11/13/2017	0.1 US	0.1 US	0	0													
6/18/2018	0.1 US	0.1 US	0	0													
8/13/2018	0.1 US	0.1 US	0	0													
11/26/2018	0.1 US	0.1 US	0	0													
6/3/2019	0.1 US	0.1 US	0	0													
8/12/2019	0.1 US	0.1 US	0	0													
10/21/2019	0.1 US	0.1 US	0	0													
6/15/2020	0.1 US	0.1 US	0	0													
8/3/2020	0.1 US	0.1 US	0	0													
10/19/2020	0.1 US	0.1 US	0	0													
6/21/2021	0.1 US	0.1 US	0	0													
9/20/2021	0.1 US	0.1 US	0	0													
CB-6A																	
5/17/2011	2.9	0.1 US	0	0													
8/10/2011	2.3	0.1 US	0	0													
11/3/2011	4.2	0.1 US	0	0													
1/10/2012	6.2	0.1 US	0	0													
5/14/2012	0.1 US	0.1 US	0	0													
8/14/2012	1.4	0.1 US	0	0													

SUMMARY REPORT
 Landfill Gas Monitoring

(CB-6A)	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)														
Date	% Vol.	% Vol.	ppm	ppm														
10/31/2012	0.1 US	0.1 US	0	0														
5/20/2013	0.1 US	0.1 US	0	0														
7/24/2013	0.1 US	0.1 US	0	0														
10/1/2013	0.1 US	0.1 US	0	0														
6/2/2014	0.1 US	0.1 US	0	0														
8/18/2014	3.3	0.1 US	0	0														
11/10/2014	0.1 US	0.1 US	0	0														
6/1/2015	0.9	0.1 US	0	0														
9/3/2015	0.1 US	0.1 US	0	0														
12/17/2015	0.1 US	0.1 US	0	0														
6/13/2016	0.1 US	0.1 US	0	0														
9/19/2016	0.1 US	0.1 US	0	0														
11/7/2016	0.1 US	0.1 US	0	0														
6/12/2017	4.2	0.1 US	0	0														
8/28/2017	0.1 US	0.1 US	0	0														
11/13/2017	0.1 US	0.1 US	0	0														
6/18/2018	0.1 US	0.1 US	0	0														
8/13/2018	0.5	0.1 US	0	0														
11/26/2018	0.1 US	0.1 US	0	0														
6/3/2019	0.1 US	0.1 US	0	0														
8/12/2019	0.1 US	0.1 US	0	0														
10/21/2019	0.1 US	0.1 US	0	0														
6/15/2020	0.1 US	0.1 US	0	0														
8/3/2020	0.5	0.1 US	0	0														
10/19/2020	11	0.1 US	0	0														
6/21/2021	0.1 US	0.1 US	0	0														
9/20/2021	0.1 US	0.1 US	0	0														

LEACHATE PUMP STATION

5/17/2011	0.1 US	0.1 US	0	0														
8/10/2011	0.1 US	0.1 US	0	0														
11/3/2011	0.1 US	0.1 US	0	0														
1/10/2012	0.1 US	0.1 US	0	0														
5/14/2012	0.1 US	0.1 US	0	0														
8/14/2012	0.1 US	0.1 US	0	0														
10/31/2012	0.1 US	0.1 US	0	0														
5/20/2013	0.1 US	0.1 US	0	0														
7/24/2013	0.1 US	0.1 US	0	0														
10/1/2013	0.1 US	0.1 US	0	0														
6/2/2014	0.1 US	0.1 US	0	0														
8/18/2014	0.1 US	0.1 US	0	0														
11/10/2014	0.1 US	0.1 US	0	0														
6/1/2015	0.1 US	0.1 US	0	0														
9/3/2015	0.1 US	0.1 US	0	0														
12/17/2015	0.1 US	0.1 US	0	0														
6/13/2016	0.1 US	0.1 US	0	0														
9/19/2016	0.1 US	0.1 US	0	0														
11/7/2016	0.1 US	0.1 US	0	0														
6/12/2017	0.1 US	0.1 US	0	0														
8/28/2017	0.1 US	0.1 US	0	0														

SUMMARY REPORT
 Landfill Gas Monitoring

(LEACHATE PUMP STATION) Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm														
11/13/2017	0.1 US	0.1 US	0	0														
6/18/2018	0.1 US	0.1 US	0	0														
8/13/2018	0.1 US	0.1 US	0	0														
11/26/2018	0.1 US	0.1 US	0	0														
6/3/2019	0.1 US	0.1 US	0	0														
8/12/2019	0.1 US	0.1 US	0	0														
10/21/2019	0.1 US	0.1 US	0	0														
6/15/2020	0.1 US	0.1 US	0	0														
8/3/2020	0.1 US	0.1 US	0	0														
10/19/2020	0.1 US	0.1 US	0	0														
6/21/2021	0.1 US	0.1 US	0	0														
9/20/2021	0.1 US	0.1 US	0	0														
LEACHATE SUMP																		
5/17/2011	0.1 US	0.1 US	0	0														
8/10/2011	0.1 US	0.1 US	0	0														
11/3/2011	0.1 US	0.1 US	0	0														
1/10/2012	0.1 US	0.1 US	0	0														
5/14/2012	0.1 US	0.1 US	0	0														
8/14/2012	0.1 US	0.1 US	0	0														
10/31/2012	0.1 US	0.1 US	0	0														
5/20/2013	0.1 US	0.1 US	0	0														
7/24/2013	0.1 US	0.1 US	0	0														
10/1/2013	0.1 US	0.1 US	0	0														
6/2/2014	0.1 US	0.1 US	0	0														
8/18/2014	0.1 US	0.1 US	0	0														
11/10/2014	0.1 US	0.1 US	0	0														
6/1/2015	0.1 US	0.1 US	0	0														
9/3/2015	0.1 US	0.1 US	0	0														
12/17/2015	0.1 US	0.1 US	0	0														
6/13/2016	0.1 US	0.1 US	0	0														
9/19/2016	0.1 US	0.1 US	0	0														
11/7/2016	0.1 US	0.1 US	0	0														
6/12/2017	0.1 US	0.1 US	0	0														
8/28/2017	0.1 US	0.1 US	0	0														
11/13/2017	0.1 US	0.1 US	0	0														
6/18/2018	0.1 US	0.1 US	0	0														
8/13/2018	0.1 US	0.1 US	0	0														
11/26/2018	0.1 US	0.1 US	0	0														
6/3/2019	0.1 US	0.1 US	0	0														
8/12/2019	0.1 US	0.1 US	0	0														
10/21/2019	0.1 US	0.1 US	0	0														
6/15/2020	0.1 US	0.1 US	0	0														
8/3/2020	0.1 US	0.1 US	0	0														
10/19/2020	0.1 US	0.1 US	0	0														
6/21/2021	0.1 US	0.1 US	0	0														
9/20/2021	0.1 US	0.1 US	0	0														
OPERATORS SHACK																		
5/18/2011	0.1 US	0.1 US	0	0														

(OPERATORS SHACK) Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm											
8/10/2011	0.1 US	0.1 US	0	0											
11/3/2011	0.1 US	0.1 US	0	0											
1/10/2012	0.1 US	0.1 US	0	0											
5/14/2012	0.1 US	0.1 US	0	0											
8/14/2012	0.1 US	0.1 US	0	0											
10/31/2012	0.1 US	0.1 US	0	0											
5/20/2013	0.1 US	0.1 US	0	0											
7/24/2013	0.1 US	0.1 US	0	0											
10/1/2013	0.1 US	0.1 US	0	0											
6/2/2014	0.1 US	0.1 US	0	0											
8/18/2014	0.1 US	0.1 US	0	0											
11/10/2014	0.1 US	0.1 US	0	0											
6/1/2015	0.1 US	0.1 US	0	0											
9/3/2015	0.1 US	0.1 US	0	0											
12/17/2015	0.1 US	0.1 US	0	0											
6/13/2016	0.1 US	0.1 US	0	0											
9/19/2016	0.1 US	0.1 US	0	0											
11/7/2016	0.1 US	0.1 US	0	0											
6/12/2017	0.1 US	0.1 US	0	0											
8/28/2017	0.1 US	0.1 US	0	0											
11/13/2017	0.1 US	0.1 US	0	0											
6/18/2018	0.1 US	0.1 US	0	0											
8/13/2018	0.1 US	0.1 US	0	0											
11/26/2018	0.1 US	0.1 US	0	0											
6/3/2019	0.1 US	0.1 US	0	0											
8/12/2019	0.1 US	0.1 US	0	0											
10/21/2019	0.1 US	0.1 US	0	0											
6/15/2020	0.1 US	0.1 US	0	0											
8/3/2020	0.1 US	0.1 US	0	0											
10/19/2020	0.1 US	0.1 US	0	0											
6/21/2021	0.1 US	0.1 US	0	0											
9/20/2021	0.1 US	0.1 US	0	0											

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Concentration Qualifier Notes:

- !- The sampling location was damaged or destroyed.
- US- Not Detected above the reported reporting limit determined by interpreted instrument specification.