

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



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SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Sixth Edition 2012 and Interim Specifications through 2013.

DESIGN LOADING

Live Load HL - 93 Modified

TRAFFIC DATA

Current (2010) AADT	230
Future (2030) AADT	300
DHV - % of AADT	17
Design Hour Volume	51
Heavy Trucks (% of AADT)	11%
Heavy Trucks (% of DHV)	8
Directional Distribution (% of DHV)	55
18 kip Equivalent P 2.0	33
18 kip Equivalent P 2.5	30
Design Speed (mph)	Not Posted

HYDROLOGIC DATA

Drainage Area	36.3 sq mi
Design Discharge (Q50)	1270 cfs
Check Discharge (Q100)	1410 cfs
Headwater Elevation (Q50)	329.6 ft
Headwater Elevation (Q100)	330.0 ft
Discharge Velocity (Q50)	3.11 fps
Discharge Velocity (Q100)	3.45 fps
Headwater Elevation (Q1.1)	323.58 ft
Discharge Velocity (Q1.1)	1.11 fps
Headwater Elevation (Q25)	328.9 ft

MATERIALS

Concrete:	
Curbs	Class "LP"
Precast	Class "P"
All Other	Class "A"
Reinforcing Steel	ASTM A 615/A 615M, Grade 60
Prestressing Strands	AASHTO 203 (ASTM A 416), Grade 270, Low Relaxation
Structural Steel:	
All Material (except as noted)	ASTM A 709, Grade 50

BASIC DESIGN STRESSES

Concrete	f 'c = 4,350 psi
Precast Concrete	f 'c = 7,000 psi
.....	f 'ci = 5,000 psi
Reinforcing Steel	f y = 60,000 psi
Prestressing Strand	F μ = 270,000 psi
Structural Steel:	
ASTM A 709, Grade 50	F y = 50,000 psi

TURNER ANDROSCOGGIN COUNTY RICKERS BRIDGE OVER MARTIN STREAM RICKER HILL ROAD FEDERAL AID PROJECT NO. BR-1787(900)X PROJECT LENGTH 0.038 mi. BRIDGE NO. 0019

UTILITIES

Central Maine Power Company Time Warner Cable
Oxford Networks

MAINTENANCE OF TRAFFIC

Maintain a single 11' wide lane of traffic over a temporary bridge downstream.

PROJECT LOCATION:	On Ricker Hill Road, 0.25 mile from its intersection with Route No. 117. 44°16'06"N 70°17'01"W
PROGRAM AREA:	Bridge
OUTLINE OF WORK:	Bridge Replacement

STATE OF MAINE	DEPARTMENT OF TRANSPORTATION	DATE
APPROVED		10/31/14
COMMISSIONER:	<i>[Signature]</i>	
CHIEF ENGINEER:	<i>[Signature]</i>	10-2-14

STATE OF MAINE	LOEL VELLEUX	13280	PROFESSIONAL ENGINEER
SIGNATURE		P.E. NUMBER	DATE
<i>[Signature]</i>		13280	9/15/14

PROJECT INFORMATION	BRIDGE PROGRAM
PROGRAM	M. PARLIN
PROJECT MANAGER	J. VELLEUX
DESIGNER	
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WIN 17879.00
BR-1787(900)X
TURNER RICKERS BRIDGE
TITLE SHEET

SHEET NUMBER
1
OF 10

Date: 9/15/2014 Username: Brian.J.Nichols Division: BRIDGE Filename: \\00\BRIDGE\WSTA\001_Title.dgn

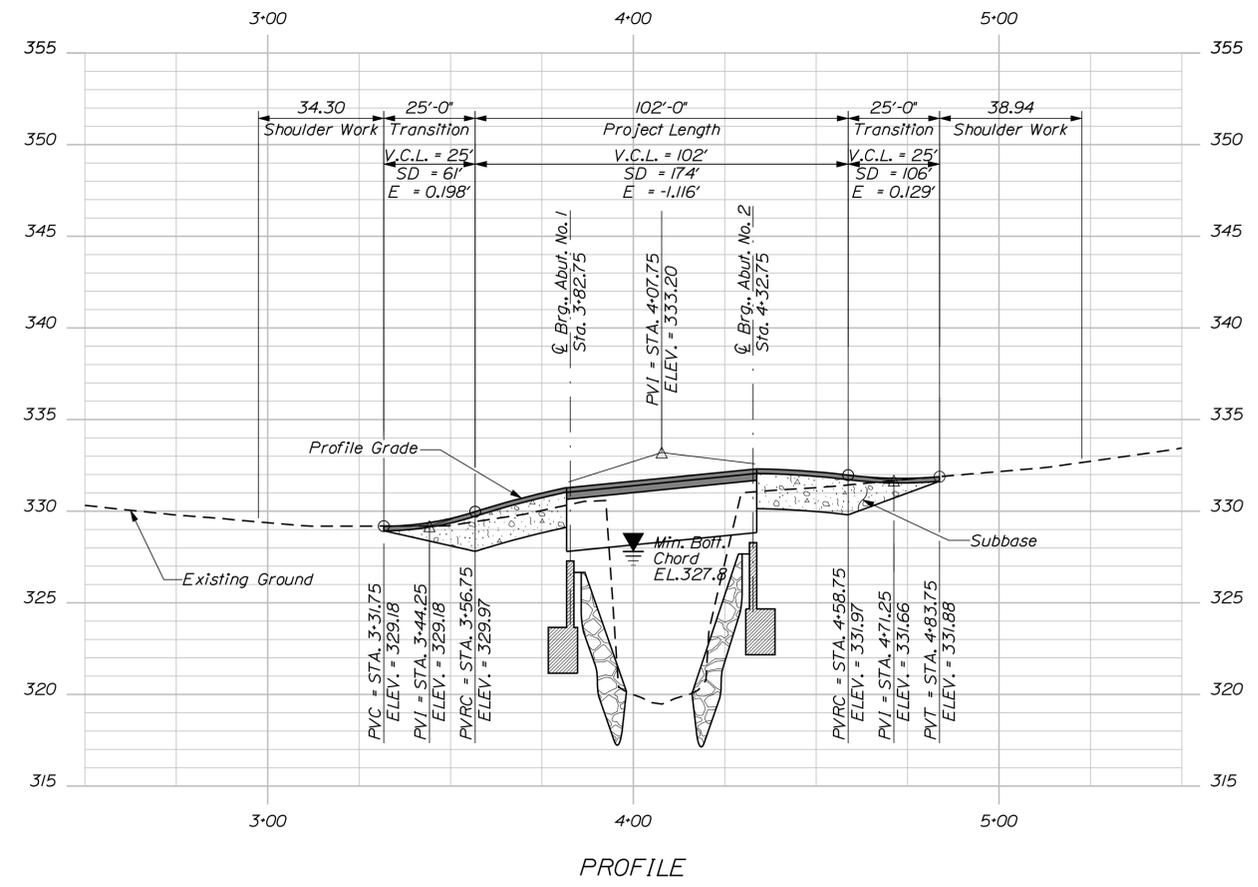
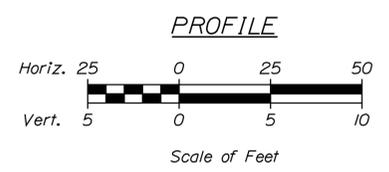
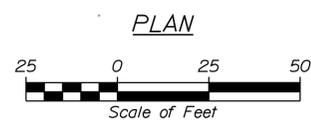
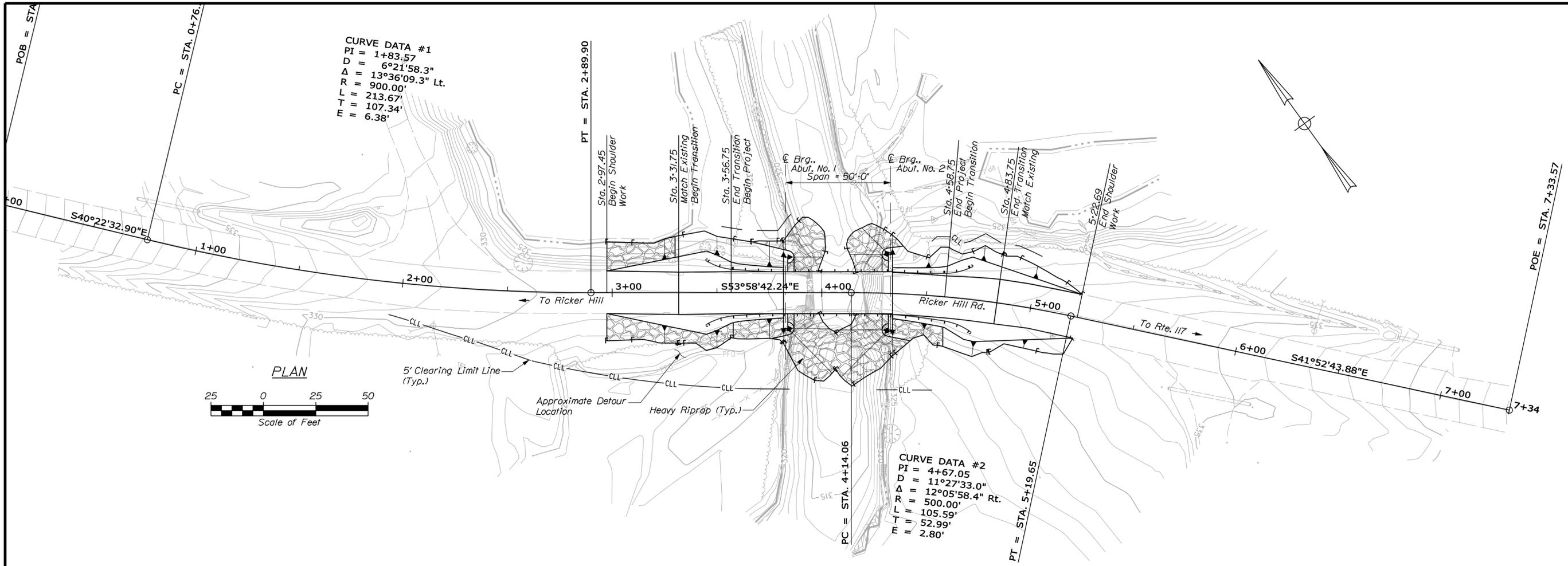
ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	REMOVING EXISTING BRIDGE (220 LF)	1	LS
203.20	COMMON EXCAVATION	200	CY
203.24	COMMON BORROW	50	CY
203.25	GRANULAR BORROW	70	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	160	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	260	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	30	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	50	T
409.15	BITUMINOUS TACK COAT - APPLIED	10	G
510.10	SPECIAL DETOUR 11' RDWY WIDTH VEHI. & PED. TRAFF. NOT SEP.	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE 1 (60 LF)	1	LS
531.51	BRIDGE STRUCTURE - DETAIL BUILD	1	LS
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.78	LOW VOLUME GUARDRAIL ENDS - TYPE 3	4	EA
610.16	HEAVY RIPRAP	680	CY
613.319	EROSION CONTROL BLANKET	80	SY
615.07	LOAM	10	CY
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	2	UN
619.1201	MULCH - PLAN QUANTITY	2	UN
619.1401	EROSION CONTROL MIX	20	CY
620.58	EROSION CONTROL GEOTEXTILE	240	SY
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.171	TRUCK - SMALL (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.33	DRUM	20	EA
652.35	CONSTRUCTION SIGNS	300	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (130 CD)	1	LS
652.38	FLAGGER	100	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- During construction, the road will be closed to traffic at the bridge location. Traffic will be maintained over the off alignment special detour for the duration of construction. The traffic control plan shall incorporate the use of a "Double Stop" approach signage; see Special Provision 652 Double Stop.
- For easements, construction limits and right of way lines, refer to Right of Way Map.
- The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.
- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.
- All embankment material behind abutments and wingwalls, except as otherwise shown, shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
- Place riprap on sideslopes up to roadway shoulder break as shown in the plan view.
- Construct the riprap shelf at EL. 326.7 at Abut. No. 1 and at EL. 327.7 at Abut. No. 2.
- Stones which cannot be rolled or compacted into the surface of the shoulder shall be removed by hand raking. Payment for hand raking will be considered incidental to Item No. 304.10, Aggregate Subbase Course - Gravel.
- Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
- Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.1401, Erosion Control Mix.
- Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
- Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 6 feet to a length of 7 feet with an embedment of 4.5 feet. Payment will be considered incidental to the guardrail pay items.
- A Low Volume Guardrail End shall be installed concurrently with the placement of each section of beam guardrail.
- Extended-use Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:
 - All exposed surfaces of concrete curbs,
 - Fascias down to the drip notch,
 - Concrete wearing surfaces,
 - Top of abutment backwalls and to one foot below the top of backwalls on the back side.
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>.
- The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.
- The project geotechnical report titled: Geotechnical Data Report, Rickers Bridge, Soils Report No 2013-27, Dated November 12, 2013 may be accessed at the MaineDOT web address.

- Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.
- Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
 - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
- The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.
- The existing bridge superstructure and substructures shall be removed in their entirety and become the property of the Contractor. The steel portions of the existing bridge are coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge is removed, the Contractor is solely responsible for the care, custody and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment and other costs required to remove and dispose of the existing bridge will be considered incidental to the bridge removal pay item.
- The supplemental bridge strengthening system installed on the bridge shall be removed by the Contractor and retained by the Department. Upon completion of demolition, strengthening components shall be transported to MaineDOT's bridge maintenance yard, 133 Fyfe Rd, Farmington, ME. Transport shall be coordinated with the Resident. Care shall be taken during demolition and transport not to damage these components. Payment for removal, loading, transporting, unloading will not be made directly, but will be considered incidental to the bridge removal item.

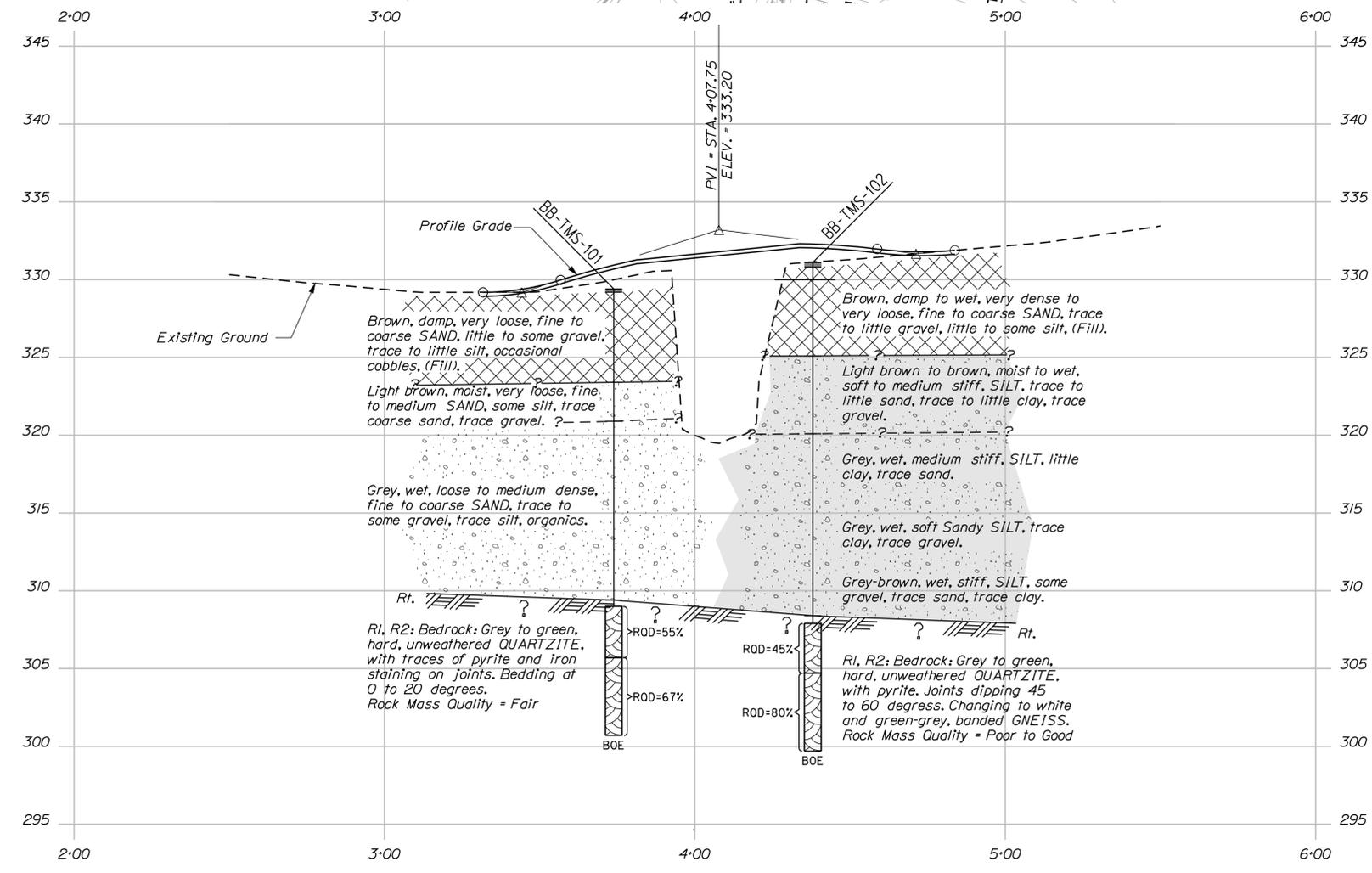
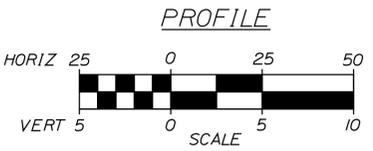
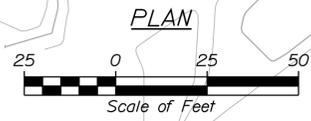
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BR-1787(900)X		BRIDGE NO. 0019		WIN		178795.00		BRIDGE PLANS			
RICKERS BRIDGE				MARTIN STREAM				ANDROSCOGGIN COUNTY				TURNER			
ESTIMATED QUANTITIES				ESTIMATED QUANTITIES				ESTIMATED QUANTITIES				ESTIMATED QUANTITIES			
SHEET NUMBER												2		OF 10	



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BR-1787(900)X		BRIDGE NO. 0019	
WIN		178795.00	
BRIDGE PLANS			
PROJ. MANAGER	MAP	BY	DATE
DESIGN-DETAILED	JRW	BAN	JUL 2014
CHECKED-REVIEWED	ASP	ASP	
DESIGNS-DETAILED			
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
RICKERS BRIDGE		ANDROSCOGGIN COUNTY	
MARTIN STREAM		GENERAL PLAN & PROFILE	
TURNER		SHEET NUMBER	
		3	
		OF 10	

CURVE DATA #1
 PI = 1+83.57
 D = 6°21'58.3"
 Δ = 13°36'09.3" Lt.
 R = 900.00'
 L = 213.67'
 T = 107.34'
 E = 6.38'

CURVE DATA #2
 PI = 4+67.05
 D = 11°27'33.0"
 Δ = 12°05'58.4" Rt.
 R = 500.00'
 L = 105.59'



LEGEND
 Boring No. Offsets, if shown
 Pavement Thickness if applicable
 Strata Interface
 Rod Rock Quality Designation for Rock Core Sample
 BOE Bottom Of Exploration

Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Filename: ... \BRIDGE\MSTA\004_BLP&ISP1.dgn Division: BRIDGE Username: Brian.J.Nichols Date: 9/17/2014

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BR-1787(900)X		BRIDGE NO. 0019	
WIN		17879.00	
BRIDGE PLANS			
RICKERS BRIDGE		ANDROSCOGGIN COUNTY	
MARTIN STREAM		TURNER	
BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE		SHEET NUMBER	
4		OF 10	
PROJ. MANAGER	BY	DATE	SIGNATURE
DESIGN-DETAILED	T. WHITE	SEPT 2014	
CHECKED-REVIEWED			
DESIGNS-DETAILED			
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

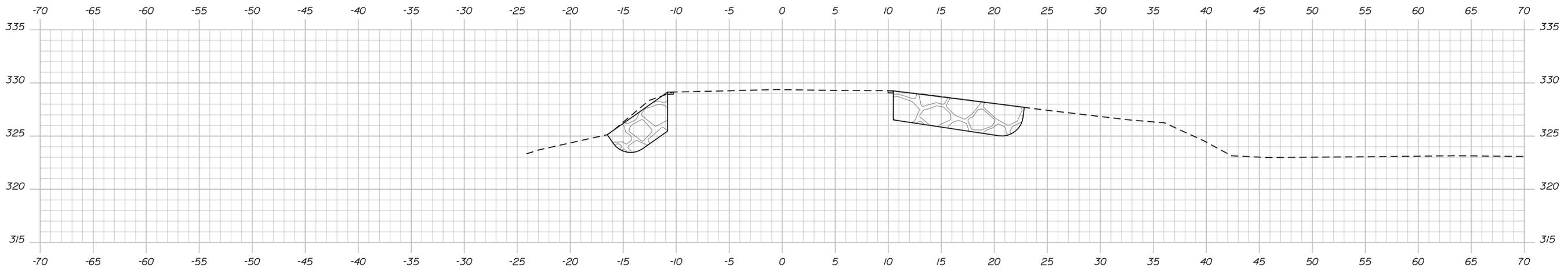
Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Rickers Bridge #0019 carries Rickers Hill Road over Martin Location: Turner, Maine		Boring No.: BB-TMS-101	
Driller: Northern Test Boring		Elevation (ft.): 329.4		Auger ID/OD: 5" Solid Stem	
Operator: Mike N., Mark S.		Datum: NAVD88		Sampler: Standard Split Spoon	
Logged By: B. Wilder		Rig Type: Diederich D-50 Trailer		Hammer Wt./Fall: 130#/30"	
Date Start/Finish: 2/17/11 08:00-12:30		Drilling Method: Cased Wash Boring		Core Barrel: ND-2"	
Boring Location: 3+33.9, 8.5 ft Rt.		Casing ID/OD: HW		Water Level#: 14.0 ft bgs.	
Hammer Efficiency Factor: 0.611		Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>			
<p>Definitions: S = Split Spoon Sample M = Unsuccessful Split Spoon Sample attempt U = Thin Wall Tube Sample MU = Unsuccessful Thin Wall Tube Sample attempt T = In Situ Shear Test PP = Pocket Penetration W = Unsuccessful In Situ Shear Test attempt</p> <p>Abbreviations: S_u = In Situ Field vane Shear Strength (psf) T_v = Pocket Torque Shear Strength (psf) C_u = Unconfined Compressive Strength (psf) N₆₀ = Standard Penetration Test Blow Count H₄₅ = 45 Degree Shear Test H₉₀ = 90 Degree Shear Test H₁₃₅ = 135 Degree Shear Test H₁₈₀ = 180 Degree Shear Test H₂₂₅ = 225 Degree Shear Test H₂₇₀ = 270 Degree Shear Test H₃₁₅ = 315 Degree Shear Test H₃₆₀ = 360 Degree Shear Test H₄₀₅ = 405 Degree Shear Test H₄₅₀ = 450 Degree Shear Test H₄₉₅ = 495 Degree Shear Test H₅₄₀ = 540 Degree Shear Test H₅₈₅ = 585 Degree Shear Test H₆₃₀ = 630 Degree Shear Test H₆₇₅ = 675 Degree Shear Test H₇₂₀ = 720 Degree Shear Test H₇₆₅ = 765 Degree Shear Test H₈₁₀ = 810 Degree Shear Test H₈₅₅ = 855 Degree Shear Test H₉₀₀ = 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Test H₃₈₂₅ = 3825 Degree Shear Test H₃₈₇₀ = 3870 Degree Shear Test H₃₉₁₅ = 3915 Degree Shear Test H₃₉₆₀ = 3960 Degree Shear Test H₄₀₀₅ = 4005 Degree Shear Test H₄₀₅₀ = 4050 Degree Shear Test H₄₀₉₅ = 4095 Degree Shear Test H₄₁₄₀ = 4140 Degree Shear Test H₄₁₈₅ = 4185 Degree Shear Test H₄₂₃₀ = 4230 Degree Shear Test H₄₂₇₅ = 4275 Degree Shear Test H₄₃₂₀ = 4320 Degree Shear Test H₄₃₆₅ = 4365 Degree Shear Test H₄₄₁₀ = 4410 Degree Shear Test H₄₄₅₅ = 4455 Degree Shear Test H₄₅₀₀ = 4500 Degree Shear Test H₄₅₄₅ = 4545 Degree Shear Test H₄₅₉₀ = 4590 Degree Shear Test H₄₆₃₅ = 4635 Degree Shear Test H₄₆₈₀ = 4680 Degree Shear Test H₄₇₂₅ = 4725 Degree Shear Test H₄₇₇₀ = 4770 Degree Shear Test H₄₈₁₅ = 4815 Degree Shear Test H₄₈₆₀ = 4860 Degree Shear Test H₄₉₀₅ = 4905 Degree Shear Test H₄₉₅₀ = 4950 Degree Shear Test H₄₉₉₅ = 4995 Degree Shear Test H₅₀₄₀ = 5040 Degree Shear Test H₅₀₈₅ = 5085 Degree Shear Test H₅₁₃₀ = 5130 Degree Shear Test H₅₁₇₅ = 5175 Degree Shear Test H₅₂₂₀ = 5220 Degree Shear Test 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6705 Degree Shear Test H₆₇₅₀ = 6750 Degree Shear Test H₆₇₉₅ = 6795 Degree Shear Test H₆₈₄₀ = 6840 Degree Shear Test H₆₈₈₅ = 6885 Degree Shear Test H₆₉₃₀ = 6930 Degree Shear Test H₆₉₇₅ = 6975 Degree Shear Test H₇₀₂₀ = 7020 Degree Shear Test H₇₀₆₅ = 7065 Degree Shear Test H₇₁₁₀ = 7110 Degree Shear Test H₇₁₅₅ = 7155 Degree Shear Test H₇₂₀₀ = 7200 Degree Shear Test H₇₂₄₅ = 7245 Degree Shear Test H₇₂₉₀ = 7290 Degree Shear Test H₇₃₃₅ = 7335 Degree Shear Test H₇₃₈₀ = 7380 Degree Shear Test H₇₄₂₅ = 7425 Degree Shear Test H₇₄₇₀ = 7470 Degree Shear Test H₇₅₁₅ = 7515 Degree Shear Test H₇₅₆₀ = 7560 Degree Shear Test H₇₆₀₅ = 7605 Degree Shear Test H₇₆₅₀ = 7650 Degree Shear Test H₇₆₉₅ = 7695 Degree Shear Test H₇₇₄₀ = 7740 Degree Shear Test H₇₇₈₅ = 7785 Degree Shear Test H₇₈₃₀ = 7830 Degree Shear Test H₇₈₇₅ = 7875 Degree Shear Test H₇₉₂₀ = 7920 Degree Shear Test H₇₉₆₅ = 7965 Degree Shear Test H₈₀₁₀ = 8010 Degree Shear Test H₈₀₅₅ = 8055 Degree Shear Test H₈₁₀₀ = 8100 Degree Shear Test H₈₁₄₅ = 8145 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Shear Test H₉₆₃₀ = 9630 Degree Shear Test H₉₆₇₅ = 9675 Degree Shear Test H₉₇₂₀ = 9720 Degree Shear Test H₉₇₆₅ = 9765 Degree Shear Test H₉₈₁₀ = 9810 Degree Shear Test H₉₈₅₅ = 9855 Degree Shear Test H₉₉₀₀ = 9900 Degree Shear Test H₉₉₄₅ = 9945 Degree Shear Test H₉₉₉₀ = 9990 Degree Shear Test H₁₀₀₃₅ = 10035 Degree Shear Test H₁₀₀₈₀ = 10080 Degree Shear Test H₁₀₁₂₅ = 10125 Degree Shear Test H₁₀₁₇₀ = 10170 Degree Shear Test H₁₀₂₁₅ = 10215 Degree Shear Test H₁₀₂₆₀ = 10260 Degree Shear Test H₁₀₃₀₅ = 10305 Degree Shear Test H₁₀₃₅₀ = 10350 Degree Shear Test H₁₀₃₉₅ = 10395 Degree Shear Test H₁₀₄₄₀ = 10440 Degree Shear Test H₁₀₄₈₅ = 10485 Degree Shear Test H₁₀₅₃₀ = 10530 Degree Shear Test H₁₀₅₇₅ = 10575 Degree Shear Test H₁₀₆₂₀ = 10620 Degree Shear Test H₁₀₆₆₅ = 10665 Degree Shear Test H₁₀₇₁₀ = 10710 Degree Shear Test H₁₀₇₅₅ = 10755 Degree Shear Test H₁₀₈₀₀ = 10800 Degree Shear Test H₁₀₈₄₅ = 10845 Degree Shear Test H₁₀₈₉₀ = 10890 Degree Shear Test H₁₀₉₃₅ = 10935 Degree Shear Test H₁₀₉₈₀ = 10980 Degree Shear Test H₁₁₀₂₅ = 11025 Degree Shear Test H₁₁₀₇₀ = 11070 Degree Shear Test H₁₁₁₁₅ = 11115 Degree Shear Test H₁₁₁₆₀ = 11160 Degree Shear Test H₁₁₂₀₅ = 11205 Degree Shear Test H₁₁₂₅₀ = 11250 Degree Shear Test H₁₁₂₉₅ = 11295 Degree Shear Test H₁₁₃₄₀ = 11340 Degree Shear Test H₁₁₃₈₅ = 11385 Degree Shear Test H₁₁₄₃₀ = 11430 Degree Shear Test H₁₁₄₇₅ = 11475 Degree Shear Test H₁₁₅₂₀ = 11520 Degree Shear Test H₁₁₅₆₅ = 11565 Degree Shear Test H₁₁₆₁₀ = 11610 Degree Shear Test H₁₁₆₅₅ = 11655 Degree Shear Test H₁₁₇₀₀ = 11700 Degree Shear Test H₁₁₇₄₅ = 11745 Degree Shear Test H₁₁₇₉₀ = 11790 Degree Shear Test H₁₁₈₃₅ = 11835 Degree Shear Test H₁₁₈₈₀ = 11880 Degree Shear Test H₁₁₉₂₅ = 11925 Degree Shear Test H₁₁₉₇₀ = 11970 Degree Shear Test H₁₂₀₁₅ = 12015 Degree Shear Test H₁₂₀₆₀ = 12060 Degree Shear Test H₁₂₁₀₅ = 12105 Degree Shear Test H₁₂₁₅₀ = 12150 Degree Shear Test H₁₂₁₉₅ = 12195 Degree Shear Test H₁₂₂₄₀ = 12240 Degree Shear Test H₁₂₂₈₅ = 12285 Degree Shear Test H₁₂₃₃₀ = 12330 Degree Shear Test H₁₂₃₇₅ = 12375 Degree Shear Test H₁₂₄₂₀ = 12420 Degree Shear Test H₁₂₄₆₅ = 12465 Degree Shear Test H₁₂₅₁₀ = 12510 Degree Shear Test H₁₂₅₅₅ = 12555 Degree Shear Test H₁₂₆₀₀ = 12600 Degree Shear Test H₁₂₆₄₅ = 12645 Degree Shear Test H₁₂₆₉₀ = 12690 Degree Shear Test H₁₂₇₃₅ = 12735 Degree Shear Test H₁₂₇₈₀ = 12780 Degree Shear Test H₁₂₈₂₅ = 12825 Degree Shear Test H₁₂₈₇₀ = 12870 Degree Shear Test H₁₂₉₁₅ = 12915 Degree Shear Test H₁₂₉₆₀ = 12960 Degree Shear Test H₁₃₀₀₅ = 13005 Degree Shear Test H₁₃₀₅₀ = 13050 Degree Shear Test H₁₃₀₉₅ = 13095 Degree Shear Test H₁₃₁₄₀ = 13140 Degree Shear Test H₁₃₁₈₅ = 13185 Degree Shear Test H₁₃₂₃₀ = 13230 Degree Shear Test H₁₃₂₇₅ = 13275 Degree Shear Test H₁₃₃₂₀ = 13320 Degree Shear Test H₁₃₃₆₅ = 13365 Degree Shear Test H₁₃₄₁₀ = 13410 Degree Shear Test H₁₃₄₅₅ = 13455 Degree Shear Test H₁₃₅₀₀ = 13500 Degree Shear Test H₁₃₅₄₅ = 13545 Degree Shear Test H₁₃₅₉₀ = 13590 Degree Shear Test H₁₃₆₃₅ = 13635 Degree Shear Test H₁₃₆₈₀ = 13680 Degree Shear Test 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15075 Degree Shear Test H₁₅₁₂₀ = 15120 Degree Shear Test H₁₅₁₆₅ = 15165 Degree Shear Test H₁₅₂₁₀ = 15210 Degree Shear Test H₁₅₂₅₅ = 15255 Degree Shear Test H₁₅₃₀₀ = 15300 Degree Shear Test H₁₅₃₄₅ = 15345 Degree Shear Test H₁₅₃₉₀ = 15390 Degree Shear Test H₁₅₄₃₅ = 15435 Degree Shear Test H₁₅₄₈₀ = 15480 Degree Shear Test H₁₅₅₂₅ = 15525 Degree Shear Test H₁₅₅₇₀ = 15570 Degree Shear Test H₁₅₆₁₅ = 15615 Degree Shear Test H₁₅₆₆₀ = 15660 Degree Shear Test H₁₅₇₀₅ = 15705 Degree Shear Test H₁₅₇₅₀ = 15750 Degree Shear Test H₁₅₇₉₅ = 15795 Degree Shear Test H₁₅₈₄₀ = 15840 Degree Shear Test H₁₅₈₈₅ = 15885 Degree Shear Test H₁₅₉₃₀ = 15930 Degree Shear Test H₁₅₉₇₅ = 15975 Degree Shear Test H₁₆₀₂₀ = 16020 Degree Shear Test H₁₆₀₆₅ = 16065 Degree Shear Test H₁₆₁₁₀ = 16110 Degree Shear Test H₁₆₁₅₅ = 16155 Degree Shear Test H₁₆₂₀₀ = 16200 Degree Shear Test H₁₆₂₄₅ = 16245 Degree Shear Test H₁₆₂₉₀ = 16290 Degree Shear Test H₁₆₃₃₅ = 16335 Degree Shear Test H₁₆₃₈₀ = 16380 Degree Shear Test H₁₆₄₂₅ = 16425 Degree Shear Test H₁₆₄₇₀ = 16470 Degree Shear Test H₁₆₅₁₅ = 16515 Degree Shear Test H₁₆₅₆₀ = 16560 Degree Shear Test H₁₆₆₀₅ = 16605 Degree Shear Test H₁₆₆₅₀ = 16650 Degree Shear Test H₁₆₆₉₅ = 16695 Degree Shear Test H₁₆₇₄₀ = 16740 Degree Shear Test H₁₆₇₈₅ = 16785 Degree Shear Test H₁₆₈₃₀ = 16830 Degree Shear Test H₁₆₈₇₅ = 16875 Degree Shear Test H₁₆₉₂₀ = 16920 Degree Shear Test H₁₆₉₆₅ = 16965 Degree Shear Test H₁₇₀₁₀ = 17010 Degree Shear Test H₁₇₀₅₅ = 17055 Degree Shear Test H₁₇₁₀₀ = 17100 Degree Shear Test H₁₇₁₄₅ = 17145 Degree Shear Test H₁₇₁₉₀ = 17190 Degree Shear Test H₁₇₂₃₅ = 17235 Degree Shear Test H₁₇₂₈₀ = 17280 Degree Shear Test H₁₇₃₂₅ = 17325 Degree Shear Test H₁₇₃₇₀ = 17370 Degree Shear Test H₁₇₄₁₅ = 17415 Degree Shear Test H₁₇₄₆₀ = 17460 Degree Shear Test H₁₇₅₀₅ = 17505 Degree Shear Test H₁₇₅₅₀ = 17550 Degree Shear Test H₁₇₅₉₅ = 17595 Degree Shear Test H₁₇₆₄₀ = 17640 Degree Shear Test H₁₇₆₈₅ = 17685 Degree Shear Test H₁₇₇₃₀ = 17730 Degree Shear Test H₁₇₇₇₅ = 17775 Degree Shear Test H₁₇₈₂₀ = 17820 Degree Shear Test H₁₇₈₆₅ = 17865 Degree Shear Test H₁₇₉₁₀ = 17910 Degree Shear Test H₁₇₉₅₅ = 17955 Degree Shear Test H₁₈₀₀₀ = 18000 Degree Shear Test H₁₈₀₄₅ = 18045 Degree Shear Test H₁₈₀₉₀ = 18090 Degree Shear Test H₁₈₁₃₅ = 18135 Degree Shear Test H₁₈₁₈₀ = 18180 Degree Shear Test H₁₈₂₂₅ = 18225 Degree Shear Test H₁₈₂₇₀ = 18270 Degree Shear Test H₁₈₃₁₅ = 18315 Degree Shear Test H₁₈₃₆₀ = 18360 Degree Shear Test H₁₈₄₀₅ = 18405 Degree Shear Test H₁₈₄₅₀ = 18450 Degree Shear Test H₁₈₄₉₅ = 18495 Degree Shear Test H₁₈₅₄₀ = 18540 Degree Shear Test H₁₈₅₈₅ = 18585 Degree Shear Test H₁₈₆₃₀ = 18630 Degree Shear Test H₁₈₆₇₅ = 18675 Degree Shear Test H₁₈₇₂₀ = 18720 Degree Shear Test H₁₈₇₆₅ = 18765 Degree Shear Test H₁₈₈₁₀ = 18810 Degree Shear Test H₁₈₈₅₅ = 18855 Degree Shear Test H₁₈₉₀₀ = 18900 Degree Shear Test H₁₈₉₄₅ = 18945 Degree Shear Test H₁₈₉₉₀ = 18990 Degree Shear Test H₁₉₀₃₅ = 19035 Degree Shear Test H₁₉₀₈₀ = 19080 Degree Shear Test H₁₉₁₂₅ = 19125 Degree Shear Test H₁₉₁₇₀ = 19170 Degree Shear Test H₁₉₂₁₅ = 19215 Degree Shear Test H₁₉₂₆₀ = 19260 Degree Shear Test H₁₉₃₀₅ = 19305 Degree Shear Test H₁₉₃₅₀ = 19350 Degree Shear Test H₁₉₃₉₅ = 19395 Degree Shear Test H₁₉₄₄₀ = 19440 Degree Shear Test H₁₉₄₈₅ = 19485 Degree Shear Test H₁₉₅₃₀ = 19530 Degree Shear Test H₁₉₅₇₅ = 19575 Degree Shear Test H₁₉₆₂₀ = 19620 Degree Shear Test H₁₉₆₆₅ = 19665 Degree Shear Test H₁₉₇₁₀ = 19710 Degree Shear Test H₁₉₇₅₅ = 19755 Degree Shear Test H₁₉₈₀₀ = 19800 Degree Shear Test H₁₉₈₄₅ = 19845 Degree Shear Test H₁₉₈₉₀ = 19890 Degree Shear Test H₁₉₉₃₅ = 19935 Degree Shear Test H₁</p>					

Date: 9/18/2014

Username: Brian.J.Nichols

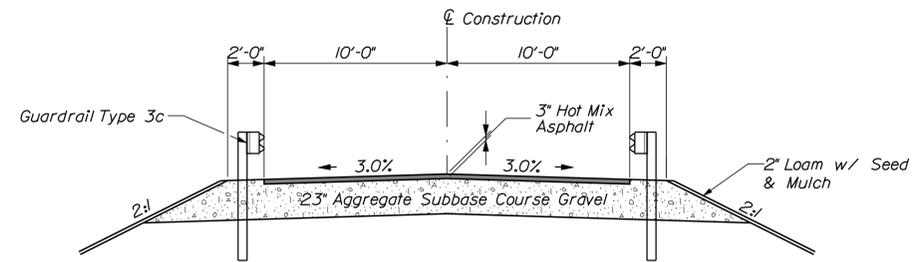
Division: BRIDGE

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3+00.00

2+97.45
Begin Shoulder Work



APPROACH DESIGN SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BR-1787(900)X
WIN
17879.00
BRIDGE NO. 0019
BRIDGE PLANS

PROJ. MANAGER	DATE
CHECKED-REVIEWED	JUL 2014
DESIGN-REVIEWED	
DESIGN-REVIEWED	
DESIGN-REVIEWED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

MAP	BY	SIGNATURE
IRV	B.J.N.	
ASP	ASP	
		P.E. NUMBER
		DATE

RICKERS BRIDGE
MARTIN STREAM
ANDROSCOGGIN COUNTY
TURNER
CROSS SECTIONS

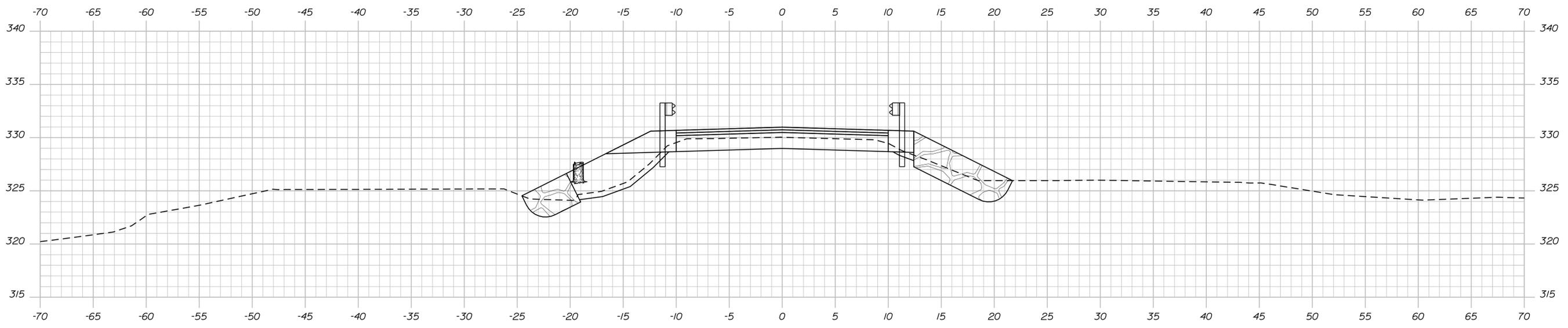
SHEET NUMBER
6
OF 10

Date: 9/18/2014

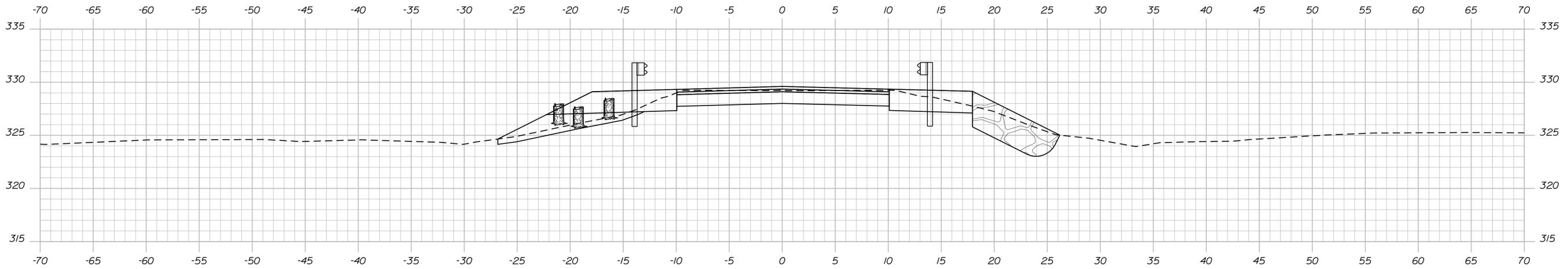
Username: Brian.J.Nichols

Division: BRIDGE

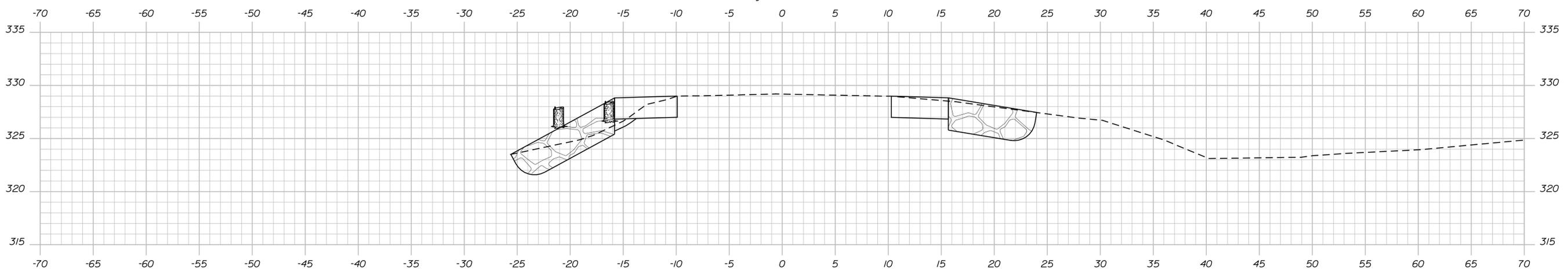
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3+75.00
 3+56.75
 End Transition
 Begin Project



3+50.00
 3+31.75
 Match Existing
 Begin Transition



Sta. 3+46 to Bridge
 Install Low Volume Gaurdrail End
 Install Reflectorized Flexible Guardrail Marker (2)

3+25.00

Sta. 3+46 to Bridge
 Install Low Volume Gaurdrail End
 Install Reflectorized Flexible Guardrail Marker (2)

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 BR-1787(900)X
 WIN
 BRIDGE NO. 0019
 17879.00
 BRIDGE PLANS

PROJ. MANAGER	MAP	BY	DATE
DESIGN DETAILED	IRV	BIN	JUL 2014
CHECKED-REVIEWED	ASP	ASP	
DESIGNS DETAILED			SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

RICKERS BRIDGE
 MARTIN STREAM
 ANDROSCOGGIN COUNTY
 TURNER

CROSS SECTIONS

SHEET NUMBER
 7
 OF 10

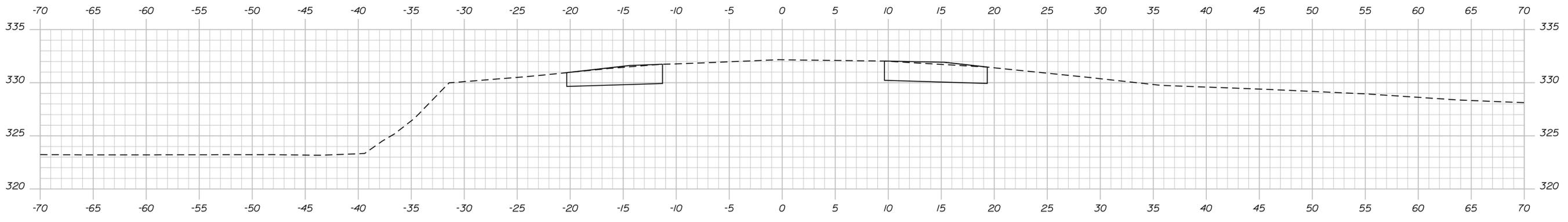
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Username: Brian.J.Nichols

Division: BRIDGE

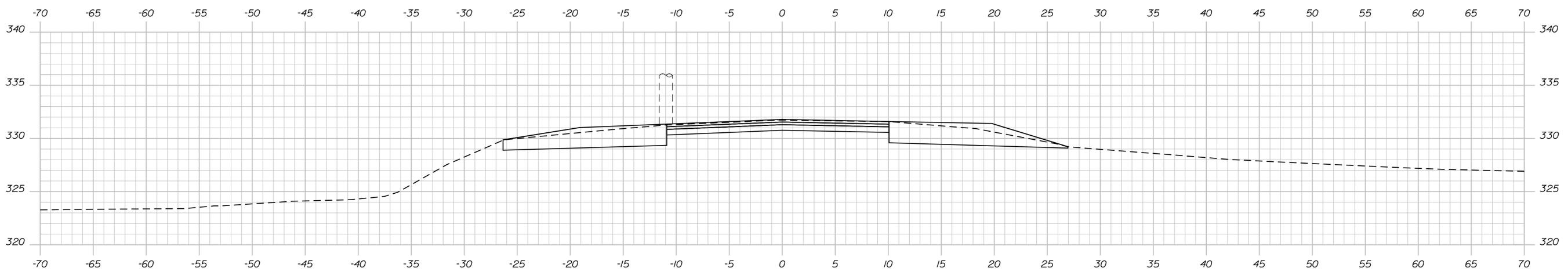
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5+22.69
End Shoulder Work

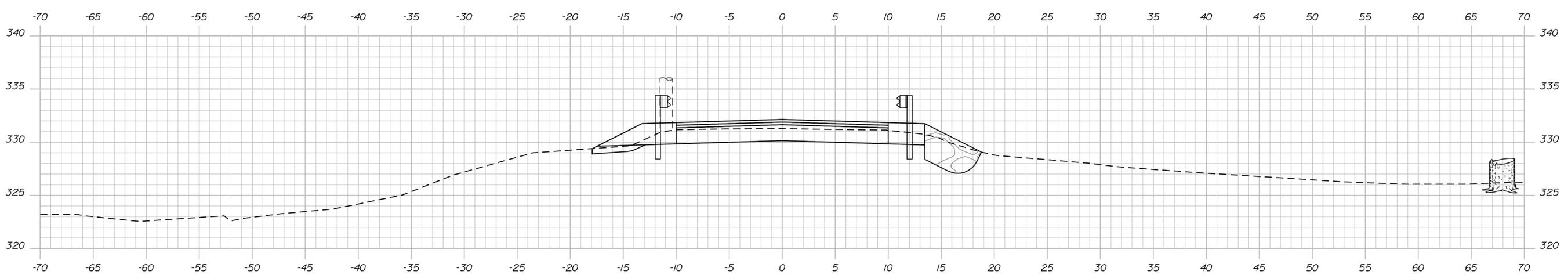


5+00.00

4+83.75
End Transition
Match Existing



4+75.00



4+50.00

3+83 To 4+33
BRIDGE

Bridge to Sta. 4+72
Install Low Volume Gaurdrail End
Install Reflectorized Flexible Guardrail Marker (2)

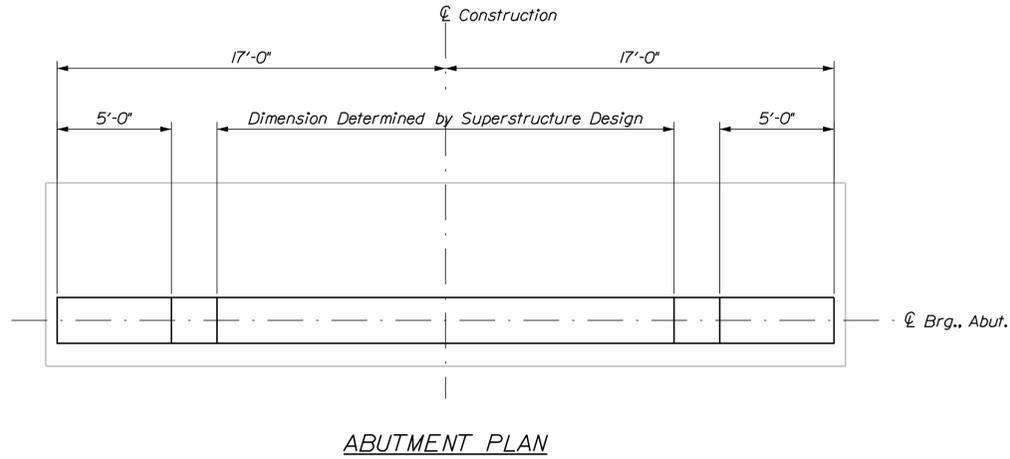
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BR-1787(900)X
WIN
17879.00
BRIDGE NO. 0019
BRIDGE PLANS

PROJ. MANAGER	MAP	BY	DATE
DESIGN DETAILED	JRV	ASP	JUL 2014
CHECKED-REVIEWED	ASP	ASP	
DESIGNS DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

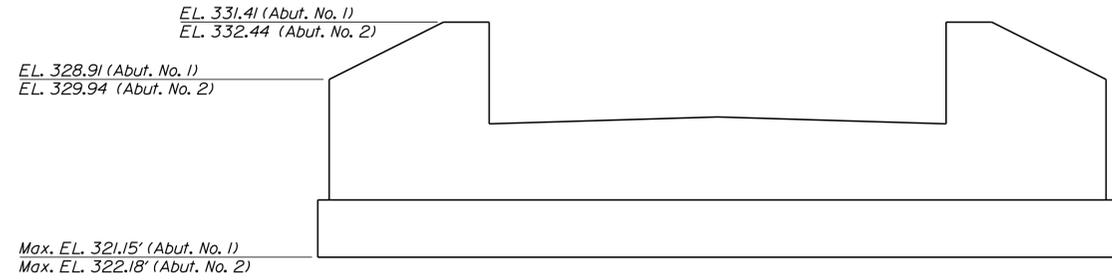
SIGNATURE	P.E. NUMBER	DATE

RICKERS BRIDGE
MARTIN STREAM
ANDROSCOGGIN COUNTY
TURNER
CROSS SECTIONS

SHEET NUMBER
8
OF 10

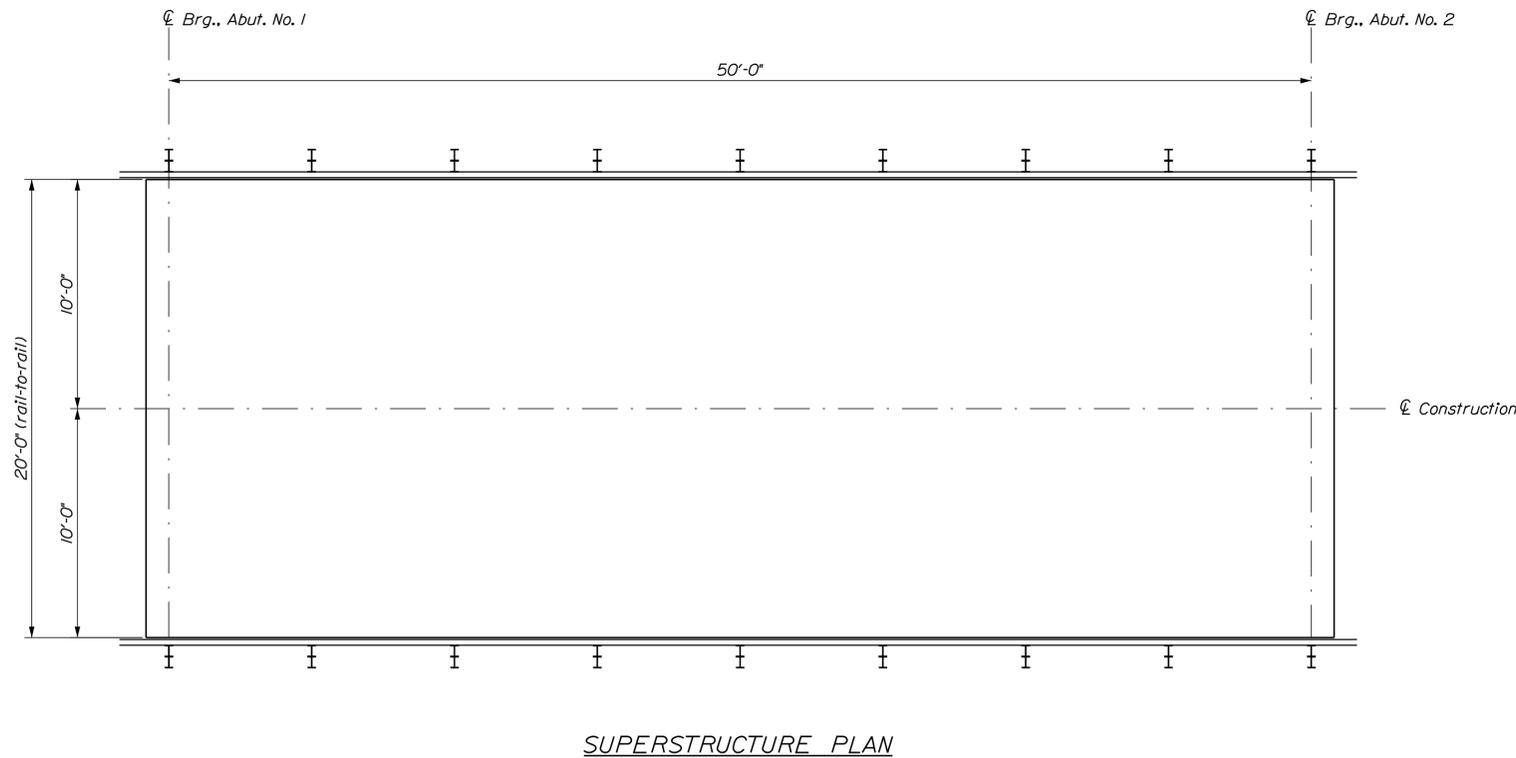


ABUTMENT PLAN

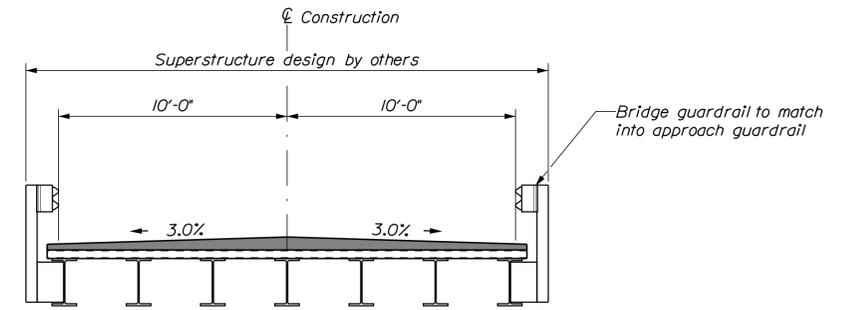


ABUTMENT ELEVATION

Bridge seat elevations determined by superstructure design

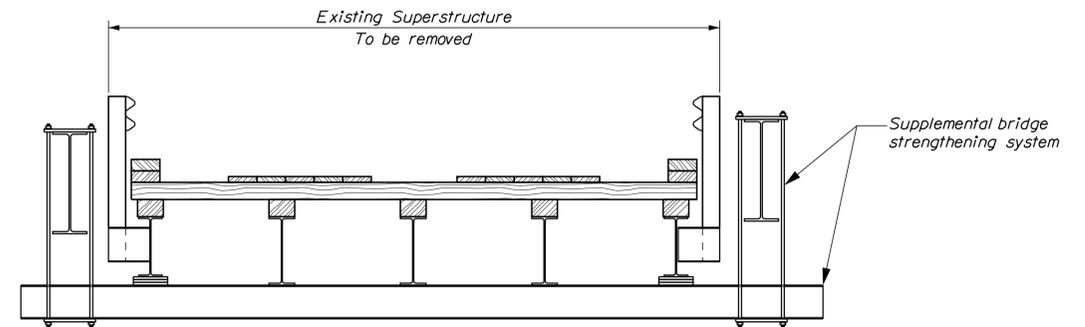


SUPERSTRUCTURE PLAN



SUPERSTRUCTURE SECTION

Conceptual only to show width requirements



EXISTING BRIDGE SECTION

DATE	SIGNATURE	P.E. NUMBER	DATE
JUL 2014			

PROJ. MANAGER	MAP	BY	DATE
DESIGN DETAILED: JRJ	BAN	BAN	JUL 2014
CHECKED-REVIEWED: ASP	ASP	ASP	
DESIGN DETAILED:			
REVISIONS 1:			
REVISIONS 2:			
REVISIONS 3:			
REVISIONS 4:			
FIELD CHANGES:			

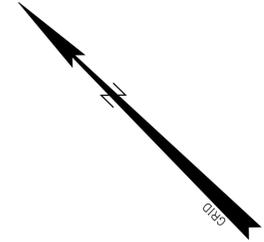
RICKERS BRIDGE
MARTIN STREAM
ANDROSCOGGIN COUNTY
TURNER
BRIDGE DETAILS

SHEET NUMBER

9

OF 10

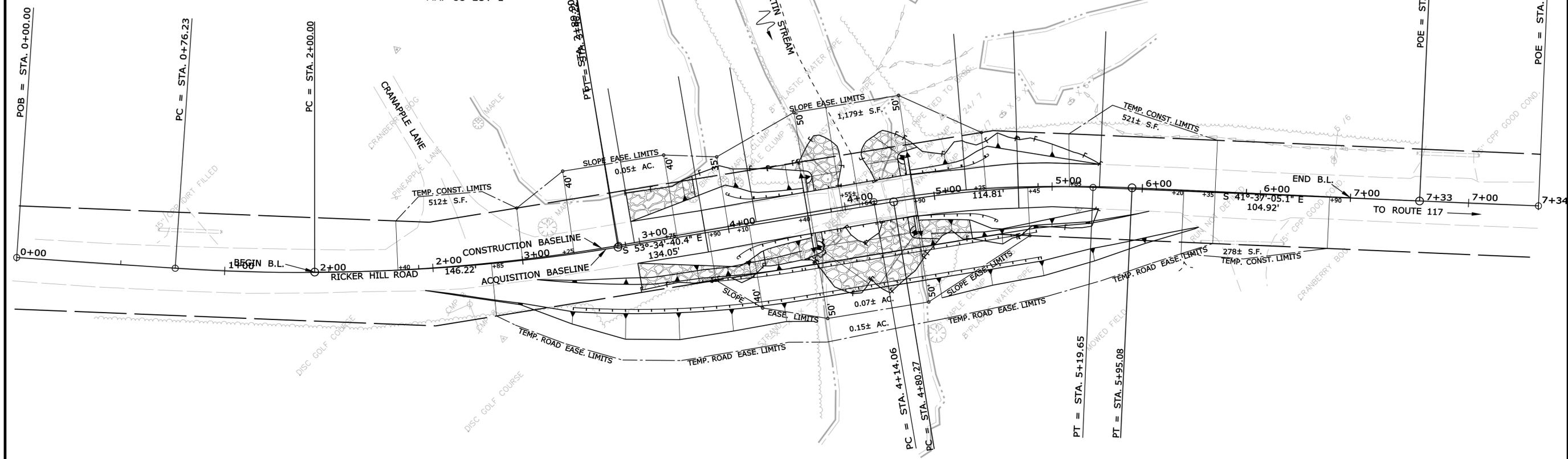
Filename: ... \MSTA\newdesign\RW\wplon.dgn
 Division: BRIDGE
 Username: joel.r.velleux
 Date: 9/12/2014



CURVE DATA #1
 PI = 2+73.27
 D = 6°21'58.3"
 Δ = 9°18'31.2" Lt.
 R = 900.00'
 L = 146.22'
 T = 73.27'
 E = 2.98'

RICKER HILL ORCHARDS
 ITEM NO. (2)
 SLOPE EASE. = 0.05± AC. (1)
 TEMP. CONST. RIGHTS = 512± S.F. (1)
 TOTAL AREA = 224± AC. (PER TAX MAP)
 MAP 53 LOT 1

RICKER HILL ORCHARDS
 ITEM NO. (3)
 SLOPE EASE. = 1,179± S.F. (1)
 TEMP. CONST. RIGHTS = 521± S.F. (1)
 TOTAL AREA = 64± AC. (PER TAX MAP)
 MAP 46 LOT 12



RICKER HILL ORCHARDS
 ITEM NO. (1)
 SLOPE EASE. = 0.07± AC. (1)
 TEMP. CONST. RIGHTS = 278± S.F. (1)
 TEMPORARY ROAD EASE. = 0.15± AC. (1)
 TOTAL AREA = 279± AC. (PER TAX MAP)
 MAP 53 LOT 2

CURVE DATA #2
 PI = 5+37.88
 D = 10°25'02.7"
 Δ = 11°57'35.3" Rt.
 R = 550.00'
 L = 114.81'
 T = 57.61'
 E = 3.01'

STATE OF MAINE
 REGISTRY OF DEEDS
 COUNTY _____
 RECEIVED _____
 at _____ h _____ m _____ M and recorded in
 Plan Book _____, Page _____
 Attest: _____ REGISTER

RIGHT OF WAY REFERENCE
 RICKER HILL ROAD
 TURNER TOWN RECORDS
 VOL. 4 PAGE 55
 1848, 3 RODS WIDE

SYMBOLS

•	PI or PIP (IRON PIPE or PIN FOUND)	○	WELL
□	ST. (SEPTIC TANK)	—	GRADING LIMIT LINE
△	BM (TRAVERSE POINT)	—	CONSTRUCTION LIMIT LINE
—	WATER LINE	—	PROPERTY LINE
—	GAS LINE	—	LIMITS OF TROUGHT PORTION (L.O.T.P.)
—	ELECTRIC LINE	—	EXISTING RIGHT OF WAY
—	TELEPHONE LINE	—	NEW RIGHT OF WAY
—	SEWER LINE	—	NEW ROW WITHIN EXIST. ROW
—		—	CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	PNS	
PROP. LINES	PNS	
AREAS		

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
 TURNER
 RIGHT OF WAY MAP

BRIDGE NO. 0019
 RICKER'S BRIDGE OVER MARTIN STREAM
 PIN 17879.00

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK		PAGE		COUNTY RECORD	
				NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
1,283		RICKER HILL ORCHARDS		EASEMENT	9/16/11	8240	191		

DAVID BERNHARDT
 COMMISSIONER
 KENNETH L. SWEENEY
 CHIEF ENGINEER
 DATE _____



To the best of my knowledge and belief, this map constitutes an accurate graphical representation of the Highway Right of Way lines shown hereon. Other boundary lines, including lines between abutters, are approximate and for general reference only. See sheet X of this plan set for reference coordinates.

RICKER HILL ROAD
 TURNER ANDROSCOGGIN COUNTY
 FEDERAL AID PROJECT NO. BR-1787(900)X
 AUGUST 2011
 SCALE 1" = 25'
 RIGHT-OF-WAY MAP
 SHEET 1 OF 1
 D.O.T. FILE NO. 1-304

SHEET NUMBER
10
 OF 10