STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WEST GARDINER

KENNEBEC COUNTY

EXIT 102\ROUTE 9

STP-2021(600)

PROJECT LENGTH : 0.35 MILE

PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing Existing Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees Conifer Deciduous
Tree Line
Clearing Limit Line CLL
Centerline-Existing
Centerline-Proposed 10+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins Existing Proposed
Manholes Existing Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles Existing Proposed
Fire Hydrants Existing Proposed
Existing Water Line W
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

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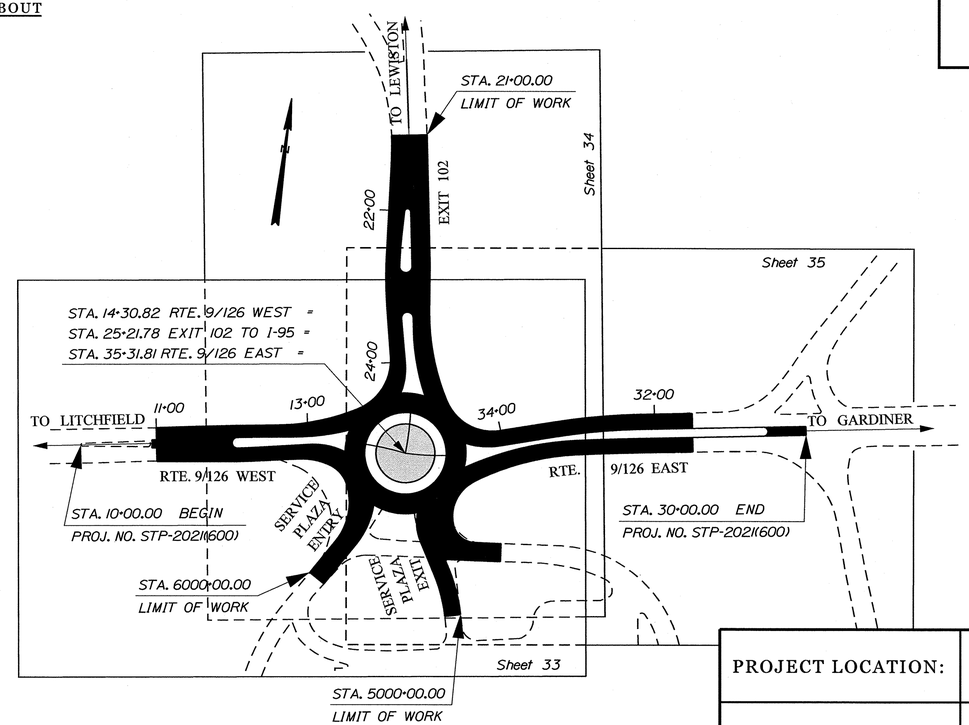
TRAFFIC DATA

TRAFFIC DATA	EXIT 102 N/O RTE. 9/126	RTE. 9/126 E/O EXIT 102	ROUNDABOUT
Current (2015) AADT	2180	10030	5490
Future (2035) AADT	2620	12040	6590
DHV - % of AADT	10%	9%	10%
Design Hour Volume	265	1116	644
% Heavy Trucks (AADT)	12%	9%	9%
% Heavy Trucks (DHV)	8%	6%	7%
Directional Distribution (DHV)	54%	53%	100%
18 kip Equivalent P 2.0	185	600	706
18 kip Equivalent P 2.5	176	572	672
Design Speed (mph)	24	25	17
Functional Class:	Interstate	Minor Arterial	N/A

TRAFFIC DATA	RTE. 9/126 W/O EXIT 102	SERVICE PLAZA DR. S/O RTE. 9/126
Current (2012) AADT	4460	5300
Future (2032) AADT	5350	6360
DHV - % of AADT	12%	6%
Design Hour Volume	637	400
% Heavy Trucks (AADT)	7%	11%
% Heavy Trucks (DHV)	5%	8%
Directional Distribution (DHV)	59%	53%
18 kip Equivalent P 2.0	180	446
18 kip Equivalent P 2.5	171	425
Design Speed (mph)	24	25
Functional Class:	Minor Arterial	Local Rd.



LAYOUT SCALE

100 0 100 200

Scale in Feet

PROJECT LOCATION:	INTERSECTION OF EXIT 102, ROUTE 9/126 AND SERVICE PLAZA DRIVE
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	CONSTRUCT A ROUNDABOUT

WIN 20216.00 STP-2021(600)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: DATE 12/8/14
CHIEF ENGINEER: DATE 12-3-14

STATE OF MAINE Jonathan D. French 13157 LICENSED PROFESSIONAL ENGINEER

SIGNATURE
13157
P.E. NUMBER
12/1/14
DATE

PROJECT INFORMATION

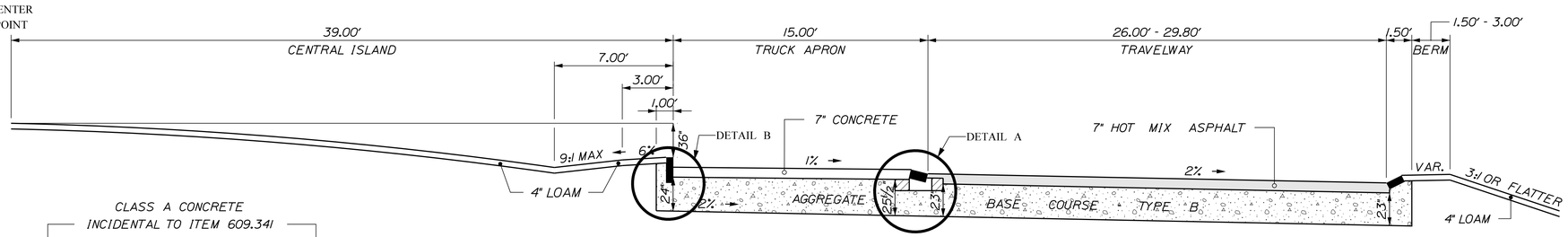
PROGRAM	HIGHWAY
PROJECT MANAGER	R. MOULTON
DESIGNER	J. FRENCH
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WEST GARDINER
EXIT 102\ROUTE 9

TITLE SHEET

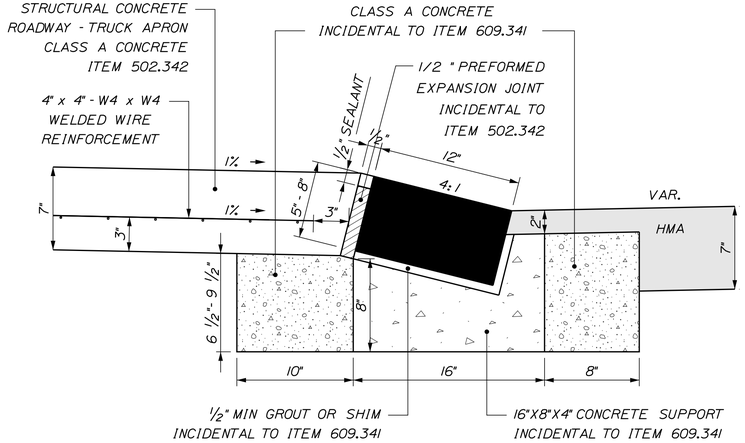
SHEET NUMBER
1
OF 57

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: Jonathan.French Date:12/1/2014



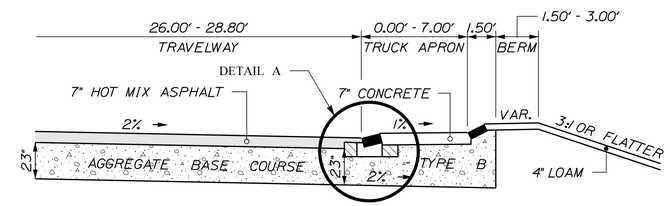
ROUNDABOUT WITH CURB

TRAVELWAY
23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH

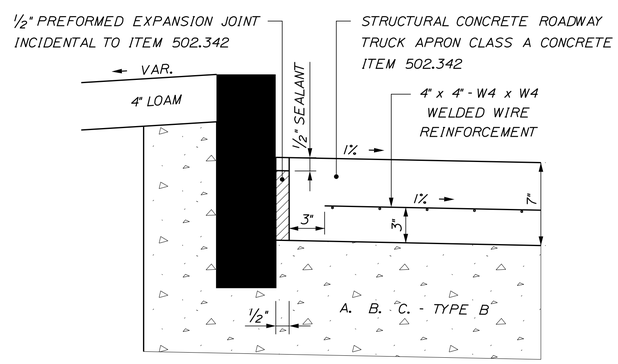


DETAIL A

SCALE 1:7.5

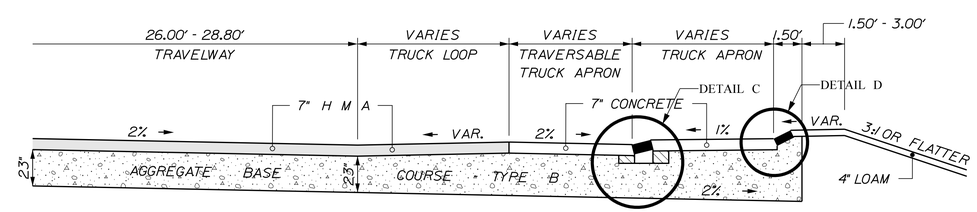


ROUNDABOUT WITH SIDE TRUCK APRON 1



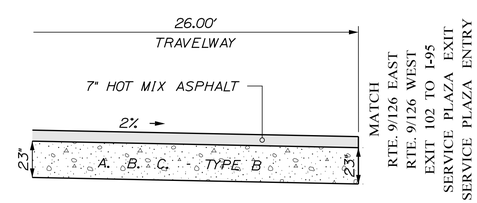
DETAIL B

SCALE 1:7.5

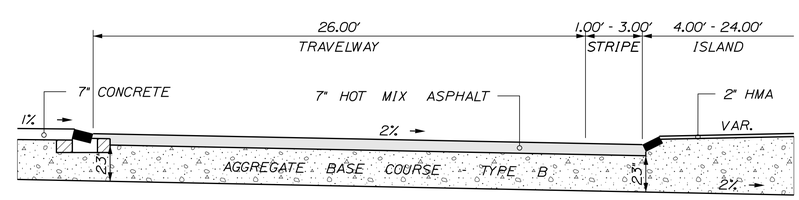


ROUNDABOUT WITH SIDE TRUCK APRON 2

DETAIL C & DETAIL D : SEE SPECIAL DETAIL (SHEET #11)



ROUNDABOUT WITHOUT CURB



ROUNDABOUT WITH ISLAND

NOT TO SCALE

CURB TYPE (SHEET)
: CURB TYPE 1
: CURB TYPE 5
: CURB TYPE 5 - TRUCK APRON
STATIONING
STA. 10+00 — STA. 14+30.82 : RTE. 9/126 WEST
STA. 20+00 — STA. 25+21.78 : EXIT 102
STA. 30+00 — STA. 35+31.81 : RTE. 9/126 EAST
STA. 5000+00 — STA. 5001+43.76 : SERVICE PLAZA EXIT
STA. 6000+00 — STA. 6001+25.43 : SERVICE PLAZA ENTRY

NOTE:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
3. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. IN AREAS THAT ARE TO BE CONSTRUCTED WITH EXISTING PAVEMENT, THE EXISTING PAVEMENT WILL BE REMOVED AND REMOVAL WILL BE PAID FOR AS ITEM #203.20 WITH THE EXCEPTION OF AREAS MARKED "EXCAVATE, LOAM AND SEED" (SEE GENERAL NOTE #34).

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

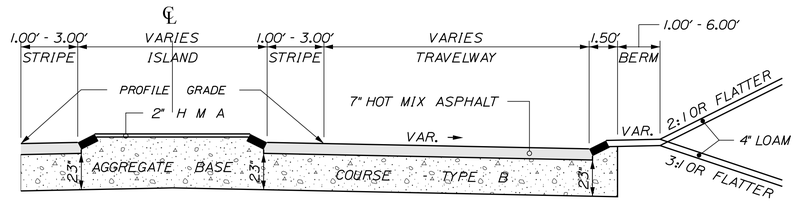
DATE

WEST GARDINER
EXIT 102\ROUTE 9

TYPICAL SECTIONS

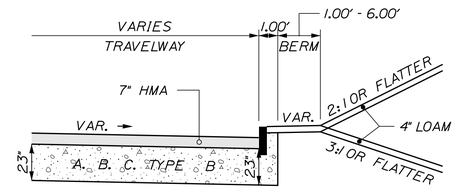
SHEET NUMBER
2
OF 57

Filename: ...\002_Typical Roundabout.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



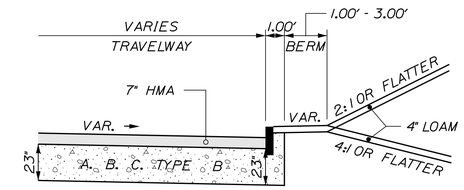
RTE. 9/126 EAST
RTE. 9/126 WEST
EXIT 102 TO I-95

PAVED ISLAND	TRAVELWAY W/CURB TYPE 5 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH
STATION TO STATION	STATION TO STATION
12+00.00 TO 13+49.02 21+97.37 TO 22+81.62 23+34.41 TO 24+40.39	12+57.11 TO 13+63.63 LT. 12+88.09 TO 13+65.26 RT. 33+65.92 TO 34+38.82 LT. 34+00.64 TO 34+73.29 RT.



RTE. 9/126 EAST
RTE. 9/126 WEST

TRAVELWAY W/CURB TYPE 1 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH
STATION TO STATION
12+26.05 TO 12+88.09 RT. 33+30.07 TO 34+00.64 RT.

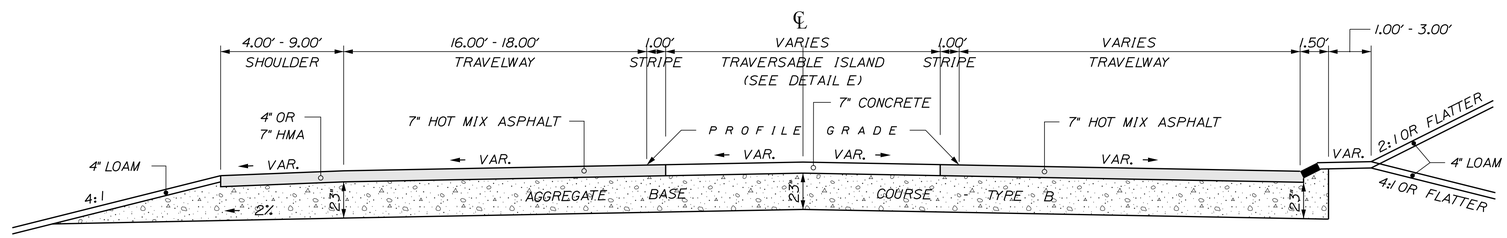


EXIT 102 TO I-95

TRAVELWAY W/CURB TYPE 1 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH
STATION TO STATION
23+24.99 TO 23+91.41 RT.

NOTE:

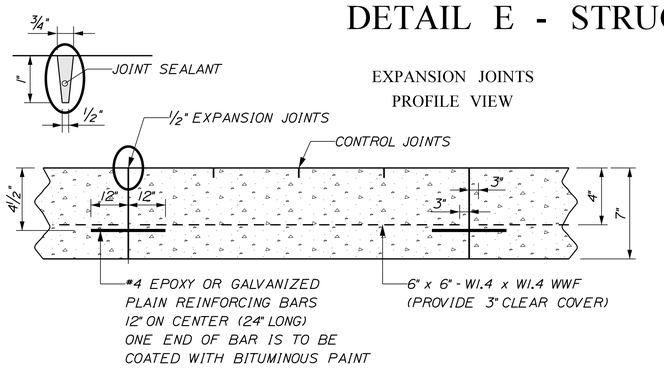
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
3. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. IN AREAS THAT ARE TO BE CONSTRUCTED WITH EXISTING PAVEMENT, THE EXISTING PAVEMENT WILL BE REMOVED AND REMOVAL WILL BE PAID FOR AS ITEM #203.20 WITH THE EXCEPTION OF AREAS MARKED "EXCAVATE, LOAM AND SEED" (SEE GENERAL NOTE #34).



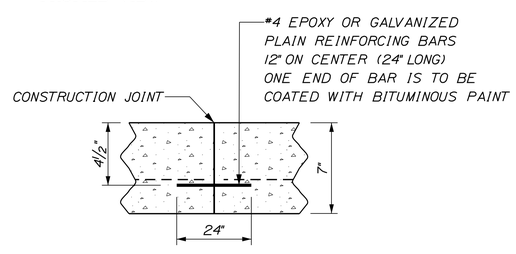
EXIT 102 TO I-95

SHOULDER	TRAVELWAY 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH	TRAVERSABLE ISLAND	TRAVELWAY W/CURB TYPE 5 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
21+00.00 TO 23+24.99 RT. (4' - 9') 21+00.00 TO 23+33.91 LT. (6' - 8')	21+00.00 TO 23+24.99 RT. (18') 21+00.00 TO 23+33.91 LT. (16')	22+83.62 TO 23+32.41	23+33.91 TO 24+54.27 LT. 23+91.41 TO 24+64.49 RT.

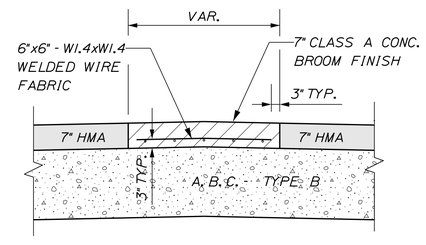
DETAIL E - STRUCTURAL CONCRETE ROADWAY MEDIAN



EXPANSION JOINTS
PROFILE VIEW



CONSTRUCTION JOINT
PROFILE VIEW



SECTION VIEW

CURB TYPE (SHEET)
: CURB TYPE 1
: CURB TYPE 5
: CURB TYPE 5 - TRUCK APRON
STATIONING
STA. 10+00 — STA. 14+30.82 : RTE. 9/126 WEST
STA. 20+00 — STA. 25+21.78 : EXIT 102
STA. 30+00 — STA. 35+31.81 : RTE. 9/126 EAST
STA. 5000+00 — STA. 5001+43.76 : SERVICE PLAZA EXIT
STA. 6000+00 — STA. 6001+25.43 : SERVICE PLAZA ENTRY

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	-----
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

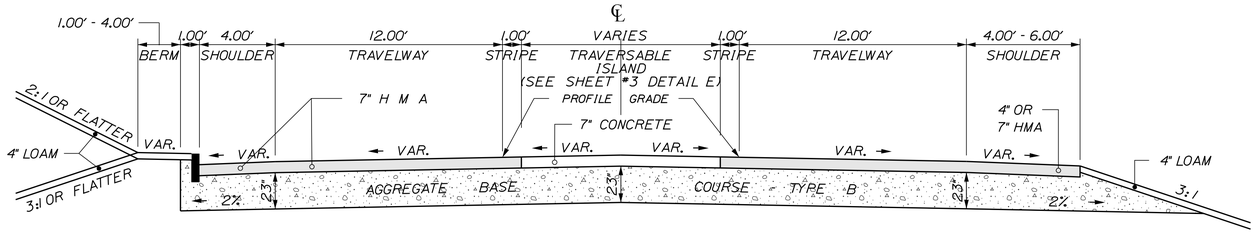
SIGNATURE
P.E. NUMBER
DATE

WEST GARDINER
EXIT 102\ROUTE 9

TYPICAL SECTIONS

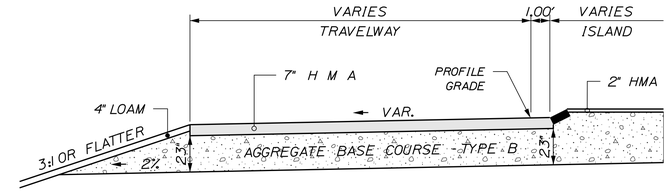
SHEET NUMBER
3
OF 57

Filename: ...\MSTA\003_TypicalExit 102.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



RTE. 9/126 WEST

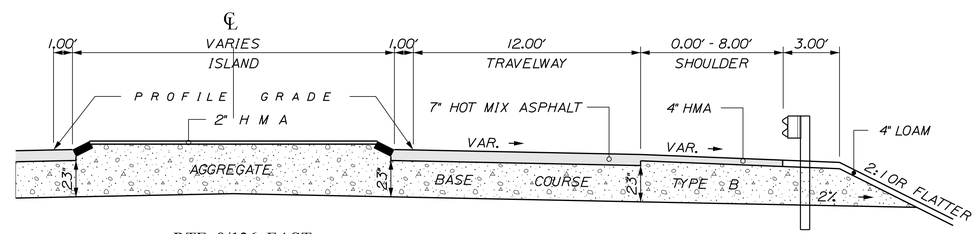
CURB SHOULDER	TRAVERSABLE ISLAND	12' TRAVELWAY 23" A. B. C. = 85.2 CY/100LF	SHOULDER
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
11+53.26 TO 12+57.11 LT.	11+00.00 TO 11+98.00	11+00.00 TO 12+26.05 RT. 11+00.00 TO 12+57.11 LT.	11+00.00 TO 11+53.26 LT. (4') 11+00.00 TO 12+26.05 RT. (6')



RTE. 9/126 EAST

TRAVELWAY 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH
STATION TO STATION
33+50.62 TO 33+65.87 LT.

CURB TYPE (SHEET)
: CURB TYPE 1
: CURB TYPE 5
: CURB TYPE 5 - TRUCK APRON
STATIONING
STA. 10+00 – STA. 14+30.82 : RTE. 9/126 WEST
STA. 20+00 – STA. 25+21.78 : EXIT 102
STA. 30+00 – STA. 35+31.81 : RTE. 9/126 EAST
STA. 5000+00 – STA. 5001+43.76 : SERVICE PLAZA EXIT
STA. 6000+00 – STA. 6001+25.43 : SERVICE PLAZA ENTRY

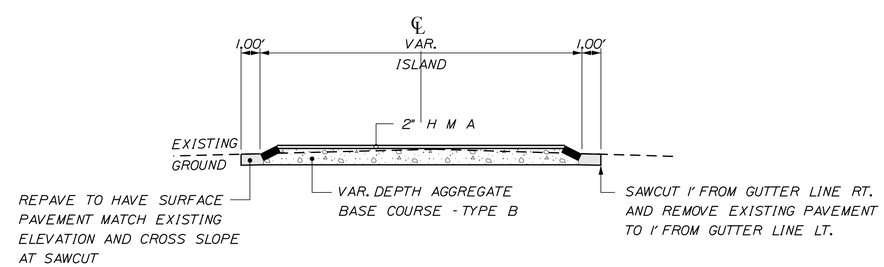


RTE. 9/126 EAST

ISLAND	12' TRAVELWAY 23" A. B. C. = 85.2 CY/100LF	GUARDRAIL SHOULDER
STATION TO STATION	STATION TO STATION	STATION TO STATION
31+50.00 TO 34+50.06	31+50.00 TO 33+17.92 LT. (12') 31+50.00 TO 33+30.07 RT. (12') 33+17.92 TO 33+50.62 LT. (VAR.)	31+50.00 TO 33+17.92 LT. (7') 31+50.00 TO 33+30.07 RT. (8')

NOTE:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
3. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. IN AREAS THAT ARE TO BE CONSTRUCTED WITH EXISTING PAVEMENT, THE EXISTING PAVEMENT WILL BE REMOVED AND REMOVAL WILL BE PAID FOR AS ITEM #203.20 WITH THE EXCEPTION OF AREAS MARKED EXCAVATE, LOAM AND SEED (SEE GENERAL NOTE #34).
5. THE SAWCUTTING OF EXISTING PAVEMENT SHALL BE INCIDENTAL TO CURB ITEMS.



RTE. 9/126 EAST
STA. 30+50 - 31+50

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

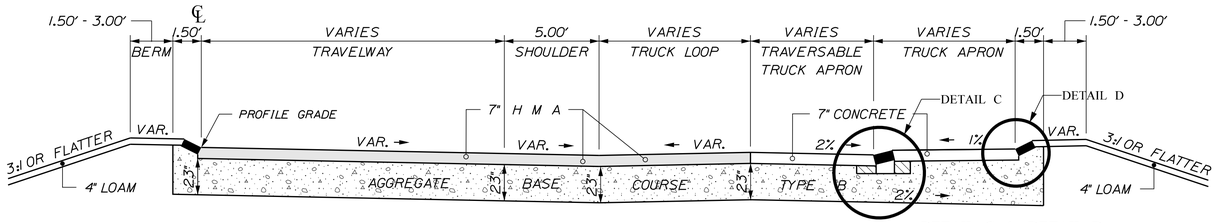
DATE

WEST GARDINER
EXIT 102\ROUTE 9

TYPICAL SECTIONS

SHEET NUMBER
4
OF 57

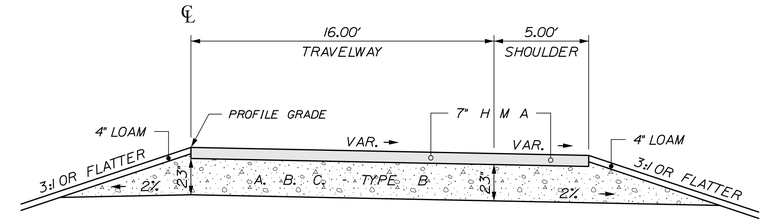
Filename: ...\004_TypicalRte 9-126 East-West.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



SERVICE PLAZA EXIT

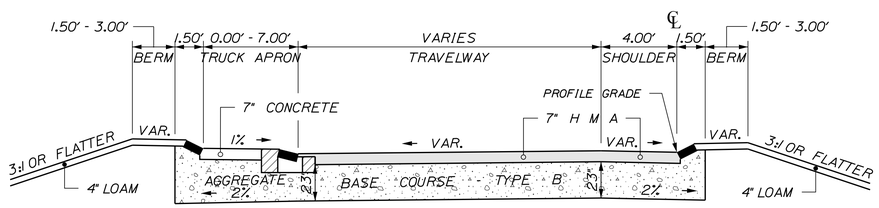
DETAIL C & DETAIL D :
SEE SPECIAL DETAIL
(SHEET #11)

TRAVELWAY W/CURB TYPE 5 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH	SHOULDER	TRUCK LOOP	TRAVERSABLE TRUCK APRON	TRUCK APRON
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
5000+74.57 TO 5001+43.76	5000+67.11 TO 5000+74.57	5000+67.11 TO 5001+43.76	5000+95.46 TO 5001+43.76	5000+75.81 TO 5001+43.76



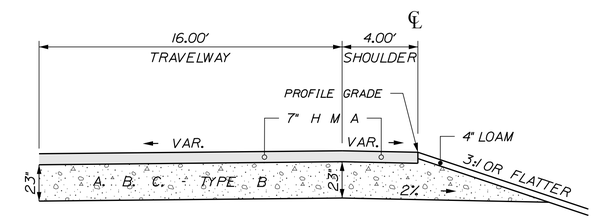
SERVICE PLAZA EXIT

16' TRAVELWAY 23" A. B. C. = 113.6 CY/100LF	SHOULDER
STATION TO STATION	STATION TO STATION
5000+00.00 TO 5000+74.57	5000+00.00 TO 5000+67.11



SERVICE PLAZA ENTRY

TRUCK APRON	TRAVELWAY W/CURB TYPE 5 23" A. B. C. = 7.1 CY/100 LF/FT OF WIDTH	SHOULDER
STATION TO STATION	STATION TO STATION	STATION TO STATION
6000+53.99 TO 6001+25.43	6000+53.99 TO 6001+25.43	6000+53.99 TO 6001+00.00



SERVICE PLAZA ENTRY

16' TRAVELWAY 23" A. B. C. = 113.6 CY/100LF	SHOULDER
STATION TO STATION	STATION TO STATION
6000+00.00 TO 6000+53.99	6000+00.00 TO 6000+53.99 LT. & RT. OF TRAVELWAY

CURB TYPE (SHEET)
: CURB TYPE 1
: CURB TYPE 5
: CURB TYPE 5 - TRUCK APRON
STATIONING
STA. 10+00 – STA. 14+30.82 : RTE. 9/126 WEST
STA. 20+00 – STA. 25+21.78 : EXIT 102
STA. 30+00 – STA. 35+31.81 : RTE. 9/126 EAST
STA. 5000+00 – STA. 5001+43.76 : SERVICE PLAZA EXIT
STA. 6000+00 – STA. 6001+25.43 : SERVICE PLAZA ENTRY

NOTE:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
3. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. IN AREAS THAT ARE TO BE CONSTRUCTED WITH EXISTING PAVEMENT, THE EXISTING PAVEMENT WILL BE REMOVED AND REMOVAL WILL BE PAID FOR AS ITEM #203.20 WITH THE EXCEPTION OF AREAS MARKED "EXCAVATE, LOAM AND SEED" (SEE GENERAL NOTE #34).

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

TYPICAL SECTIONS

SHEET NUMBER

5

OF 57

Filename: ...\005_TypicalPlaza Entry-Exit.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.15	REMOVING MANHOLE OR CATCH BASIN	3	EA
202.20	REMOVING BITUMINOUS CONCRETE PAVEMENT	575	SY
202.202	REMOVING PAVEMENT SURFACE	67	SY
203.20	COMMON EXCAVATION	8670	CY
203.26	GRAVEL BORROW	650	CY
304.15	AGGREGATE BASE COURSE - TYPE B	6625	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	1000	T
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	725	T
403.209	HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	115	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	720	T
409.15	BITUMINOUS TACK COAT - APPLIED	320	G
461.131	TEMPORARY PAVEMENT	250	T
502.341	STRUCTURAL CONCRETE ROADWAY MEDIAN	40	CY
502.342	STRUCTURAL CONCRETE ROADWAY TRUCK APRON	125	CY
603.16	15 INCH CULVERT PIPE OPTION I	20	LF
603.165	15 INCH REINFORCED CONCRETE PIPE CLASS III	512	LF
603.55	CONCRETE PIPE TIES	4	GP
604.072	CATCH BASIN TYPE AI-C	1	EA
604.092	CATCH BASIN TYPE BI-C	6	EA
604.11	CATCH BASIN TYPE CI	1	EA
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1	EA
604.249	CATCH BASIN TYPE F6-C	1	EA
605.09	6 INCH UNDERDRAIN TYPE B	1120	LF
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	312.5	LF
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	4	EA
606.356	UNDERDRAIN DELINEATOR POST	3	EA
606.81	TANGENT GUARDRAIL TERMINAL	1	EA
609.11	VERTICAL CURB TYPE 1	256	LF
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	246	LF
609.234	TERMINAL CURB TYPE 1 - 4 FOOT	4	EA
609.26	CURB TRANSITION SECTION B TYPE 1	4	EA
609.34	CURB TYPE 5	2404	LF
609.341	CURB TYPE 5 - TRUCK APRON	569	LF
609.35	CURB TYPE 5 - CIRCULAR	131	LF
610.08	PLAIN RIPRAP	38	CY
613.319	EROSION CONTROL BLANKET	275	SY
615.07	LOAM	590	CY
618.13	SEEDING METHOD NUMBER 1	47	UN
619.12	MULCH	47	UN
620.58	EROSION CONTROL GEOTEXTILE	75	SY
621.031	EVERGREEN TREES (4 FOOT - 5 FOOT) GROUP A	3	EA
621.039	EVERGREEN TREES (5 FOOT - 6 FOOT) GROUP C	3	EA
621.043	EVERGREEN TREES (6 FOOT - 8 FOOT) GROUP A	1	EA
621.101	PLUG/ STARTER PLANT	2200	EA
621.287	LARGE DECIDUOUS TREE (3 INCH - 3.50 INCH CALIPER) GROUP C	4	EA
621.389	DWARF EVERGREENS (15 INCH - 18 INCH) GROUP A	108	EA
621.39	DWARF EVERGREENS (15 INCH - 18 INCH) GROUP B	12	EA
621.397	DWARF EVERGREENS (18 INCH - 24 INCH) GROUP C	84	EA
621.415	DWARF EVERGREENS (3 FOOT - 3.50 FOOT) GROUP C	12	EA
621.531	DECIDUOUS SHRUBS (12"-18"CAL.) GROUP A	48	EA
621.54	DECIDUOUS SHRUBS (18 INCH - 24 INCH) GROUP A	48	EA
621.547	DECIDUOUS SHRUBS (2 FOOT - 3 FOOT) GROUP B	48	EA
626.21	METALLIC CONDUIT	20	LF
626.22	NON-METALLIC CONDUIT	1150	LF
626.32	24 INCH FOUNDATION	15	EA
626.33	30 INCH FOUNDATION	8	EA
626.35	CONTROLLER CABINET FOUNDATION	1	EA
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	17	EA
627.78	TEMPORARY 4 INCH PVMT. MARK LINE, W OR YELLOW	16200	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	15	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	15	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	10	HR
634.16	HIGHWAY LIGHTING	1	LS
634.2042	LED LUMINARIES	15	EA
634.210	CONVENTIONAL LIGHT STANDARD	11	EA
639.19	FIELD OFFICE TYPE B	1	EA
645.103	DEMOUNT GUIDE SIGN	6	EA
645.106	DEMOUNT REG., WARN., CONFIRMATION AND RTE MARKER ASSEMBLY SIGN	13	EA
645.108	DEMOUNT POLE	10	EA
645.113	REINSTALL GUIDE SIGN	2	EA
645.116	REINSTALL REG., WARN., CONFIRMATION AND RTE MARKER ASSEMBLY SIGN	13	EA
645.14	SPECIAL WORK NO 1: RELOCATE M.T.A. SIGN PYLON	1	EA
645.162	BREAKAWAY DEVICES MULTI-POLE	3	EA
645.251	ROADSIDE GUIDE SIGNS	1050	SF
645.289	STEEL H-BEAM POLES	6400	LB
645.292	REG., WARN., CONFIRMATION AND RTE MARKER ASSEMBLY SIGNS TYPE II	480	SF
652.33	DRUM	50	EA
652.34	CONE	75	EA
652.35	CONSTRUCTION SIGNS	920	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	125	CD
652.38	FLAGGER	6100	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	6	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
658.20	ACRYLIC LATEX COLOR FINISH, GREEN	825	SY
659.10	MOBILIZATION	1	LS
823.333	VALVE BOX, ADJUST TO GRADE	1	EA
824.32	REMOVE/RESET HYDRANT	1	EA
	* UNDETERMINED LOCATIONS		

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	8,020	
EXCAVATION OF GRAVEL BORROW FOR MAINT. OF TRAFFIC	650	
TOTAL COMMON EXCAVATION		8670

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	1,560	
TOTAL FILL		1560

ROCK EXCAVATION FOR ESTIMATE

TOTAL ROCK EXCAVATION		0

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		8670
DEDUCTIONS:		
PAVEMENT SALVAGE (CUT & FILL)	1,325	
(2) TOTAL DEDUCTIONS		1325
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		7345
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		202
TOTAL AVAILABLE NON-ROCK EXCAVATION		7547

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)	0
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)	0
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)	0

COMPUTATION OF GRAVEL BORROW FOR ESTIMATE

GRAVEL BORROW FOR MAINT. OF TRAFFIC =	650

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL			1560
TOTAL AVAIL. NON-ROCK EXCAV.	7,547 x 0.85 =	6,415	
TOTAL AVAIL. ROCK EXCAV.	0 x 1.33 =	0	
TOTAL AVAIL. STR. ROCK EXCAV.	0 x 1.33 =	0	
TOTAL WASTE MATERIAL TO BE UTILIZED	0 x 1 =	0	
(4)TOTAL AVAILABLE EXCAVATION		=	6415
IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED			4855
SURPLUS MATERIAL =	**4855 CY**		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	-----
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

ESTIMATED QUANTITIES

SHEET NUMBER

6

OF 57

Filename: ...\HIGHWAY\MSTA\006_Estimate.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

STATION	CULVERT PIPE					CATCH BASIN				UNDERDRAIN TYPE B		ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			OPTION I						TYPE B	OUTLET	DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	A1-C	B1-C	C	F6-C	LENGTH	LENGTH		
CATCH BASIN													
STA. 11+59.47, 20.9' LT. (CB#1)						1							
STA. 11+59.47, 24.2' RT. (CB#2)									1				
STA. 34+39.42, 35.2' RT. (CB#3)							1						
STA. 34+45.99, 13.2' RT. (CB#3A)							1						
STA. 34+50.00, 5.2' LT. (CB#4)							1						
STA. 34+66.43, 52.3' LT. (CB#5)							1						
STA. 35+31.75. 31.9' LT. (CB#6)								1					USE SHAPE 1 AND "A"TOP
STA. 5001+39.22, 27.1' LT. (CB#7)							1						
STA. 6001+04.00, 26.7' LT. (CB#8)							1						
ROADWAY CULVERT													
STA. 10+90.00, 30.81' LT. TO CB#1	15"	70'	III										
CB#1 LT. TO CB#2 RT.	15"	44'	III										
STA. 23+30.57, 45.0' RT. TO STA. 23+50.53, 47.0' LT.	15"	94'	III										
STA. 32+50.00, 93.0' LT. TO STA. 32+72.66, 93.0' LT.				15"	20'								ELEVATION TBD IN THE FIELD
CB#3 TO CB#3A	15"	21'	III										
CB#3A TO CB#4	15"	19'	III										
CB#4 TO CB#5	15"	52'	III										
STA. 34+51.27, 68.9' LT. TO CB#5	15"	24'	III										
CB#5 TO CB#7	15"	80'	III										
CB#6 TO CB#7	15"	48'	III										
CB#7 TO CB#8	15"	60'	III										
UNDERDRAIN													
CB#1 TO STA. 13+72.96, 57.3' LT. (HIGH POINT = 211.61)										229.2'			
CB#2 TO STA. 13+32.73, 33.2' RT. (HIGH POINT = 209.89)										171.8'			
STA. 13+72.96, 57.3' LT. (HIGH POINT = 211.61) TO STA. 23+51.46, 26.5' RT. (ELEV. = 211.49) (EXIT 102)										108.6'			
STA. 13+32.73, 33.2' RT. (HIGH POINT = 209.89) TO CB#8 LT.										76.4'			
STA. 23+32.52, 45.4' RT. (ELEV. = 211.36) TO STA. 23+51.46, 26.5' RT. (ELEV. = 211.49)											27.5'	45° ELBOW	
STA. 23+60.00, 49.4' LT. TO STA. 23+85.17, 30.8' LT. (ELEV = 212.20)											32.0'	45° ELBOW	
STA. 23+85.17, 30.8' LT. (ELEV = 212.20) TO STA. 34+52.40, 43.3' RT. (ELEV = 212.74) (RTE. 9/126 EAST)										107.0'			
STA. 33+30.05, 23.8' RT. TO CB#3										108.2'			
STA. 33+65.90, 22.8' LT. TO CB#5										110.4'			
STA. 34+27.40, 78.0' LT. (ELEV = 208.36) TO STA. 34+35.39, 108.7' LT. (ELEV = 209.36)											33.5'	45° ELBOW	
STA. 34+35.39, 108.7' LT. TO STA. 34+66.97. 55.1' LT. (ELEV = 210.52)										111.7'			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------		------
REVISIONS 2	------		------
REVISIONS 3	------		------
REVISIONS 4	------		------
FIELD CHANGES	------		------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

DRAINAGE SHEET

SHEET NUMBER

7

OF 57

Filename: ...\HIGHWAY\MSTA\007_Drainage.dgn Division: HIGHWAY Username: Jonathan.French Date:12/9/2014

GENERAL NOTES:

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:

   CENTRAL MAINE POWER
   FAIRPOINT COMMUNICATIONS
   MAINE TURNPIKE AUTHORITY
   TIME WARNER CABLE

2. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.

3. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON FINAL COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.

4. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.

5. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.

6. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

7. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.

8. PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 3" HOT MIX ASPHALT AND 12" AGGREGATE BASE COURSE GRAVEL.

9. WHEN SUPER ELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE SHOULDER PAVEMENT WILL HAVE SAME SLOPE AS TRAVELED WAY.

10. ITEMS *203.26 GRAVEL BORROW AND *461.131 TEMPORARY PAVEMENT HAVE BEEN INCLUDED IN THIS CONTRACT FOR CONSTRUCTION OF ANY TEMPORARY ROAD OR DETOUR DURING THE CONSTRUCTION OF THE ROUNDABOUT. THE AREAS OF APPLICATION AND DEPTH OF BORROW AND PAVEMENT SHALL BE SUBJECT TO PRIOR APPROVAL OF THE RESIDENT. UNAUTHORIZED USE WILL NOT BE MEASURED FOR PAYMENT.

11. IF USED UNDER PIPES, GRANULAR BORROW SHALL BE INCIDENTAL TO THE PIPE ITEM AND MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL

12. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

13. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

14. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES. FOR COMPARABLE CORRUGATED SIZES SEE THE DRAINAGE TABULATION.

15. A 3 FT. X 3 FT. SQUARE RIPRAP PAD SHALL BE CONSTRUCTED AT UNDERDRAIN OUTLETS.

16. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

17. ALL EXISTING GUARDRAIL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

18. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.

19. A DELINEATOR POST (ITEM 606.356) WILL BE INSTALLED AT EACH UNDERDRAIN OUTLET.

20. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO ITEM 606.

21. LOAM HAS BEEN ESTIMATED FOR DISTURBED AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.

22. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL SLOPES.

23. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN ALL AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

24. ACRYLIC LATEX COLOR FINISH GREEN (ITEM 658.20) SHALL BE PLACED ON ALL PAVED ISLANDS.

25. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

26. A COPY OF THE SOILS REPORT FOR THIS PROJECT IS AVAILABLE AT HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/.

27. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.

28. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.

29. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

30. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

31. STATIONS REFERENCED ARE APPROXIMATE.

32. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

33. MAINEDOT WILL FINAL STRIPE THE PROJECT.

34. PAVEMENT REMOVAL IN AREAS MARKED AS "EXCAVATE, LOAM AND SEED" WILL BE PAID FOR UNDER ITEM *202.20.

35. THE POLES, GUY WIRES, SPAN WIRES AND CABLING FOR THE EXISTING FLASHING BEACONS AT THE INTERSECTION ARE TO BE REMOVED AND THE FLASHING BEACONS ARE TO BE RETURNED TO THE MAINEDOT SIGN SHOP IN AUGUSTA. ALL WORK TO REMOVE THE EXISTING POLES, SPAN WIRE, GUY WIRES, CABLING AND TO RETURN THE FLASHING BEACONS SHALL BE INCIDENTAL TO THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

Filename: ...\MSTA\008_General_Notes.dgn Division: HIGHWAY Username: Jonathan.French Date:12/11/2014

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

GENERAL NOTES

SHEET NUMBER

8

OF 57

DRIVES AND ENTRANCES

STATIONING	TYPE	OPENING
11+25.00 LT.	PAVED ENT.	53 FT
23+25.00 LT.	PAVED ENT.	39 FT

ITEM 202.15 REMOVING MANHOLE OR CATCH BASIN

STA. 13+96.0 RT.
STA. 22+59.0 RT.
STA. 22+61.0 LT.

ITEM 604.18 ADJUST MANHOLE OR CB TO GRADE

STA. 5001+30.6 29.5' LT.

ITEM 606.23 GUARDRAIL TYPE 3C-SINGLE RAIL

		LENGTH
STA 31+50 TO STA 33+00	RT.	150.0 LF
STA 31+50 TO STA 35+00	LT.	162.5 LF

ITEM 606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL

STA. 33+00 RT.

ITEM 606.81 TANGENT GUARDRAIL TERMINAL - ENERGY ABSORBING

STA. 33+50 LT.

ITEM 609.11 VERT CURB TYPE 1

SEE GEOMETRIC SHEETS

ITEM 609.12 VERT CURB TYPE 1 - CIRCULAR

SEE GEOMETRIC SHEETS

ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT

SEE GEOMETRIC SHEETS

ITEM 609.34 CURB TYPE 5

SEE GEOMETRIC SHEETS

ITEM 609.341 CURB TYPE 5 - TRUCK APRON

SEE GEOMETRIC SHEETS

ITEM 609.35 CURB TYPE 5 - CIRCULAR

SEE GEOMETRIC SHEETS

ITEM 610.08 PLAIN RIPRAP

CROSS CULVERTS	RIPRAP PAD INLET	RIPRAP PAD OUTLET
STA. 10+90.00, 30.81' LT. TO CB#1		6' X 8'
STA. 23+30.57, 45.0' RT.	6' x 8'	
TO STA. 23+50.53, 47.0' LT.		6' x 8'
STA. 34+51.27, 68.9' LT. TO CB 5		6' x 8'

UNDERDRAIN OUTLETS	RIPRAP PAD
STA. 23+32.52, 45.4' RT.	3' X 3'
STA. 23+60.00, 49.4' LT	3' X 3'
STA. 34+27.40, 78.0' LT.	3' X 3'

DOWNSPOUTS

STA. 12+20 RT.
STA. 34+30 LT.
STA. 23+20 RT
STA. 23+60 LT.

ITEM 613.319 EROSION CONTROL BLANKET

STA. 10+35.0 — STA. 10+85.0 LT.
STA. 21+15.0 — STA. 23+20.0 RT.
STA. 23+35.0 — STA. 24+50.0 LT.
STA. 31+70.0 — STA. 32+45.0 LT.
STA. 32+65.0 — STA. 34+45.0 LT.

ITEM 823.3331 REMOVE AND RESET GATE VALVE AND BOX

STA. 34+07.85, 24.9' LT. (EXISTING)
STA. 34+11.75, 41.6' LT. (PROPOSED)

ITEM 824.32 REMOVE/RESET HYDRANT

STA. 34+07.31, 20.5' LT. (EXISTING)
STA. 34+10.68, 36.2' LT. (PROPOSED)

621 LANDSCAPING ITEMS

SEE BID BOOK

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

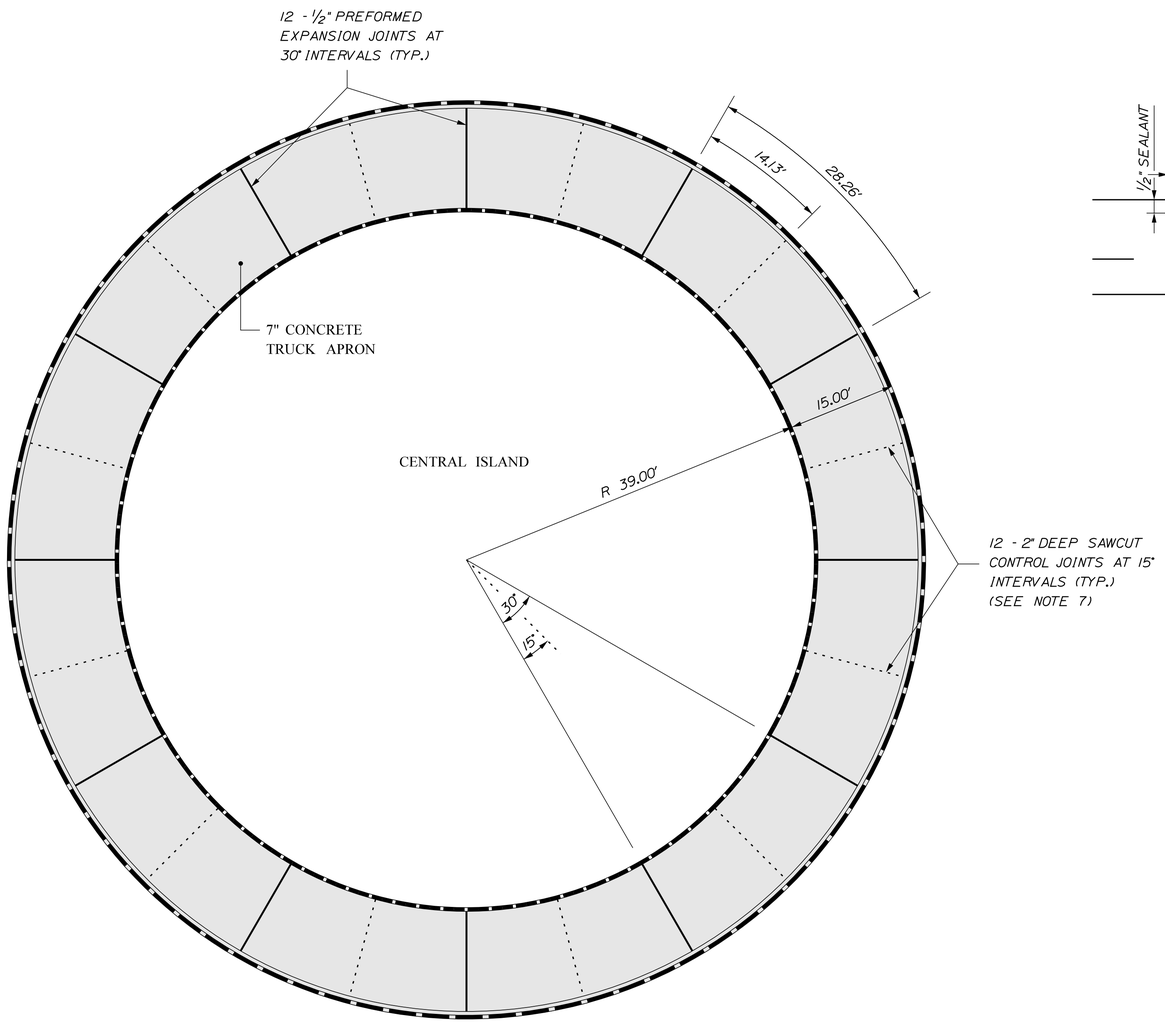
WEST GARDINER
EXIT 102\ROUTE 9

CONSTRUCTION NOTES

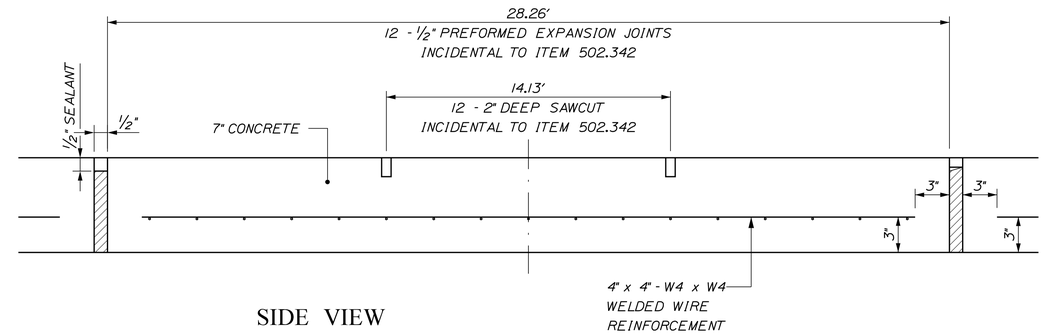
SHEET NUMBER
9
OF 57

Filename: ...\009_Construction_Notes.dgn Division: HIGHWAY Username: Jonathan.French Date:12/9/2014

CENTRAL TRUCK APRON - EXPANSION AND CONTROL JOINT LAYOUT



TOP VIEW



SIDE VIEW

1. THE 4"X4" W4XW4 WELDED WIRE REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS. THE WELDED WIRE REINFORCEMENT & CHAIRS SHALL BE INCIDENTAL TO ITEM 502.342.

2. A 3" CURB REVEAL SHALL BE PROVIDED UPON COMPLETION.

3. TWO (2) - 16"X8"X4" CONCRETE SUPPORTS SHALL BE PLACED PER CURB SECTION TO SUPPORT THE CURBING DURING CONCRETE PLACEMENT. GROUT OR SHIM EACH SECTION OF CURB TO GRADE PRIOR TO PLACING CONCRETE. FULL GROUT BED MUST BE USED WHERE SHIMS ARE LESS THAN 2" HIGH. THIS SHALL BE INCIDENTAL TO ITEM 609.341 TYPE 5 CURB - TRUCK APRON.

4. THE CLASS A CONCRETE BED FOR SLOPE GRANITE CURB WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO ITEM 609.341 TYPE 5 CURB - TRUCK APRON.

5. THE CONTRACTOR SHALL PLACE THE CONCRETE WITH CARE ASSURING THAT THE SUPPORTED CURB IS NOT DISTURBED DURING PLACEMENT.

6. THE CONCRETE SHALL BE PLACED AND CONSOLIDATED IN SUCH A MANNER THAT NO VOIDS WILL BE PRESENT WHEN COMPLETE.

7. THE CONTRACTOR SHALL PLACE CURB JOINTS TO COINCIDE WITH TRUCK APRON EXPANSION & CONTROL JOINTS.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----		-----
REVISIONS 2	-----		-----
REVISIONS 3	-----		-----
REVISIONS 4	-----		-----
FIELD CHANGES	-----		-----

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

SPECIAL DETAILS -
CENTRAL TRUCK APRON

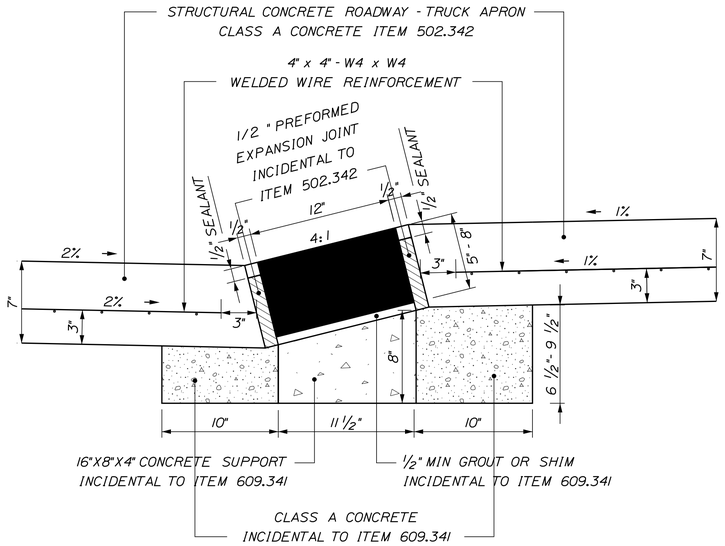
SHEET NUMBER

10

OF 57

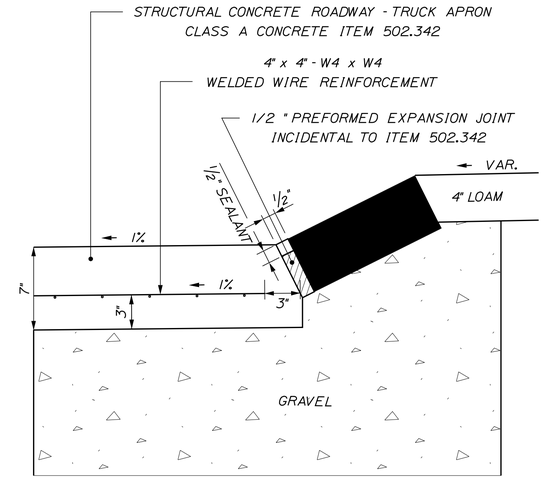
Filename: ...\010_SpecialDetail - Central Truck Apron.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

CURB DETAIL



DETAIL C

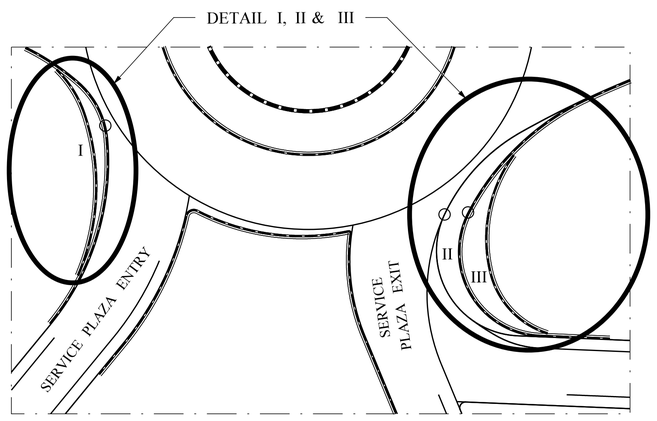
SCALE 1:7.5

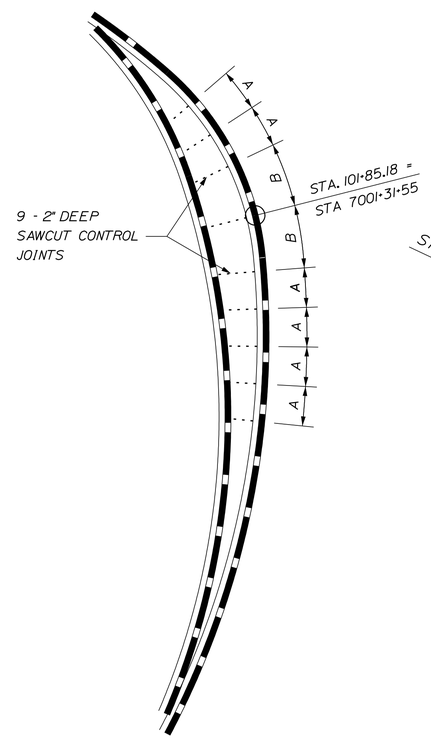


DETAIL D

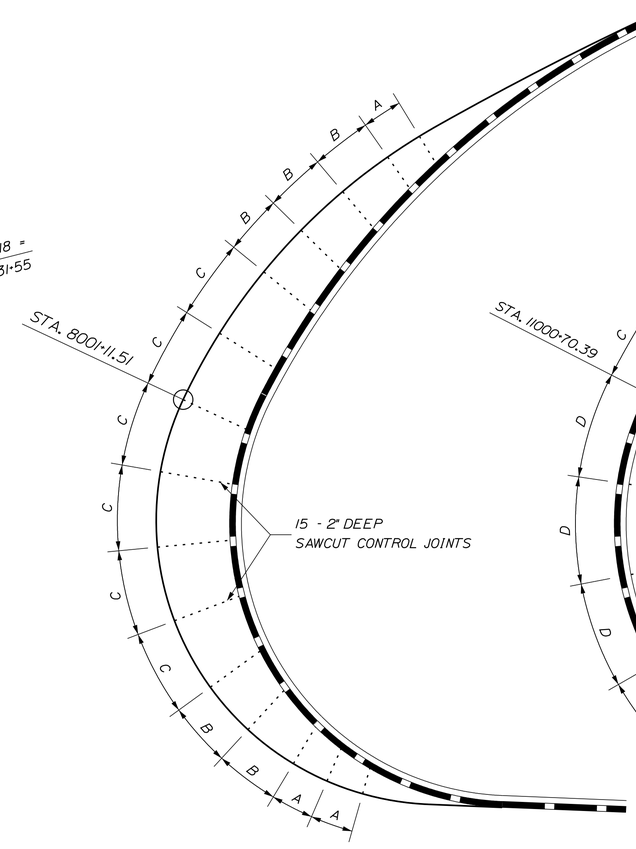
SCALE 1:7.5

SIDE TRUCK APRON CONTROL JOINT LAYOUT

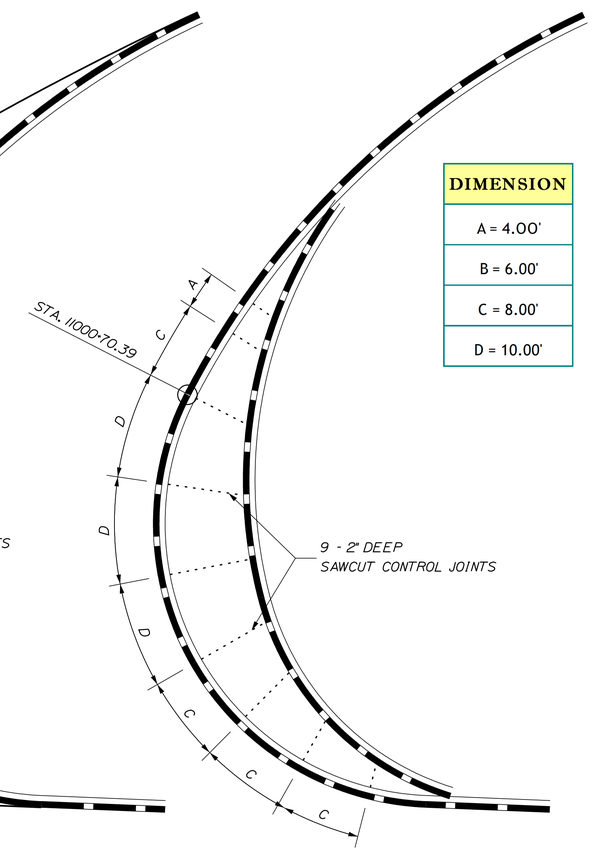




DETAIL I



DETAIL II



DETAIL III

DIMENSION
A = 4.00'
B = 6.00'
C = 8.00'
D = 10.00'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

SPECIAL DETAILS - SIDE TRUCK APRONS

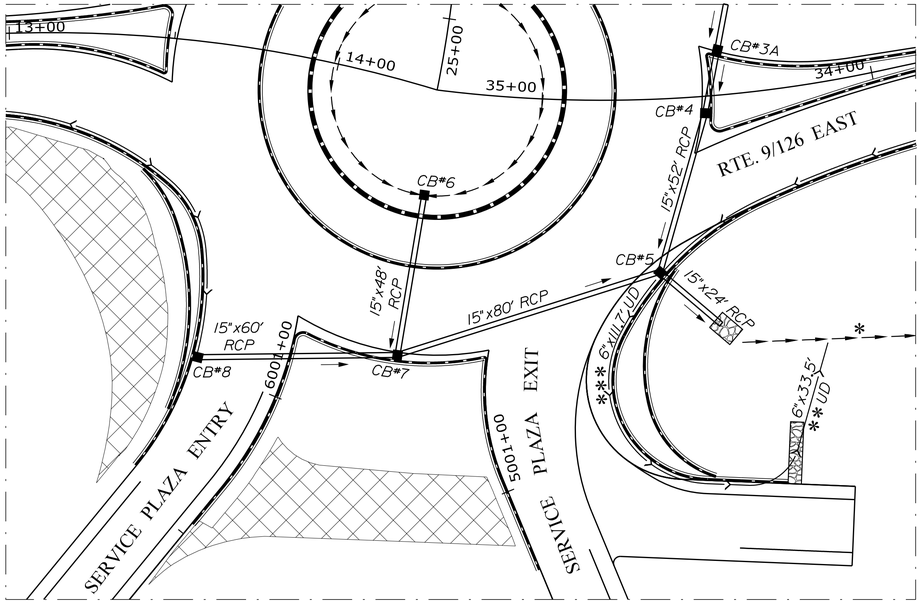
SHEET NUMBER

11

OF 57

Filename: ...\011_Special Detail - Side Truck Aprons.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

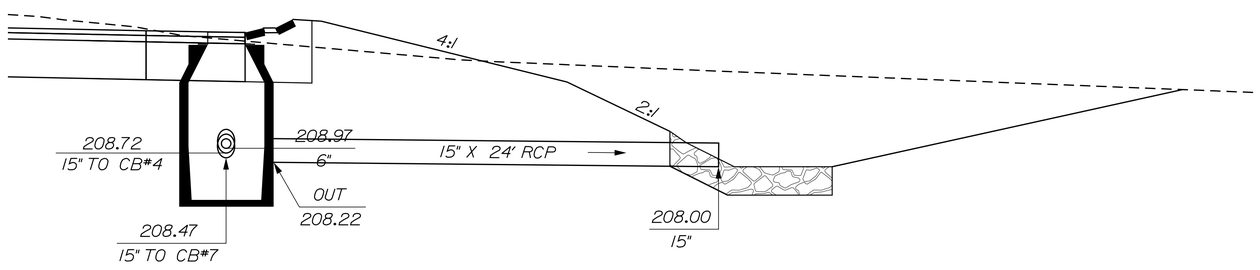
DRAINAGE DETAILS



* STA. 31+74.66 (ELEV = 207.00)
TO STA. 34+51.27 LT. (ELEV = 208.00)
CONSTRUCT DITCH

** STA. 34+27.40, 78.0' LT. (ELEV = 208.36)
TO STA. 34+35.39, 108.7' LT. (ELEV = 209.36)
INSTALL 6" x 33.5' UD TYPE B OUTLET

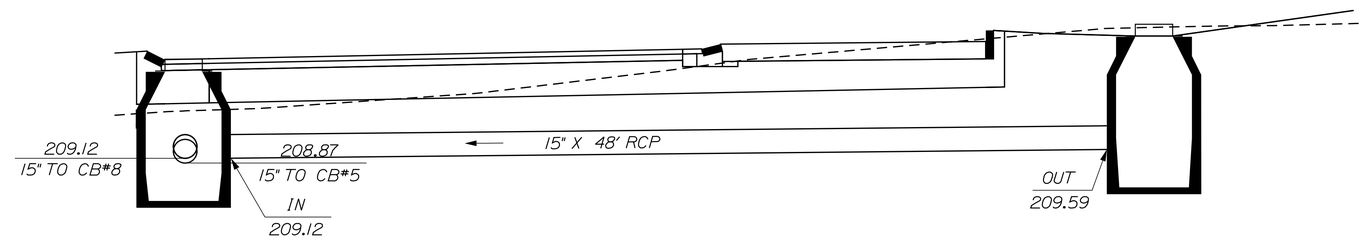
*** STA. 34+35.39, 108.7' LT. (ELEV = 209.36)
TO STA. 34+66.97, 55.1' LT. (ELEV = 210.52)
INSTALL 6" x 111.7' UD TYPE B



CB#5 TO CB#7
INSTALL 15" x 80' RCP

(CB#5) STA. 34+66.43, 52.3' LT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 215.06

STA. 34+51.27, 68.9' LT. TO CB#5
INSTALL 15" x 24' RCP



CB#7 TO CB#8
INSTALL 15" x 60' RCP

(CB#7) STA. 5001+39.22, 27.1' LT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 214.31

CB#6 TO CB#7
INSTALL 15" x 48' RCP

(CB#6) STA. 35+31.75, 31.9' LT.
CONSTRUCT CB TYPE CI
GRATE ELEV. TBD IN FIELD

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
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REVISIONS 4	-----		-----
FIELD CHANGES	-----		-----

SIGNATURE
P.E. NUMBER
DATE

WEST GARDINER
EXIT 102\ROUTE 9

SPECIAL DETAILS - DRAINAGE

SHEET NUMBER
12
OF 57

Filename: ...\012_SpecialDetail - Drainage.dgn Division: HIGHWAY Username: Jonathan.French Date:12/9/2014

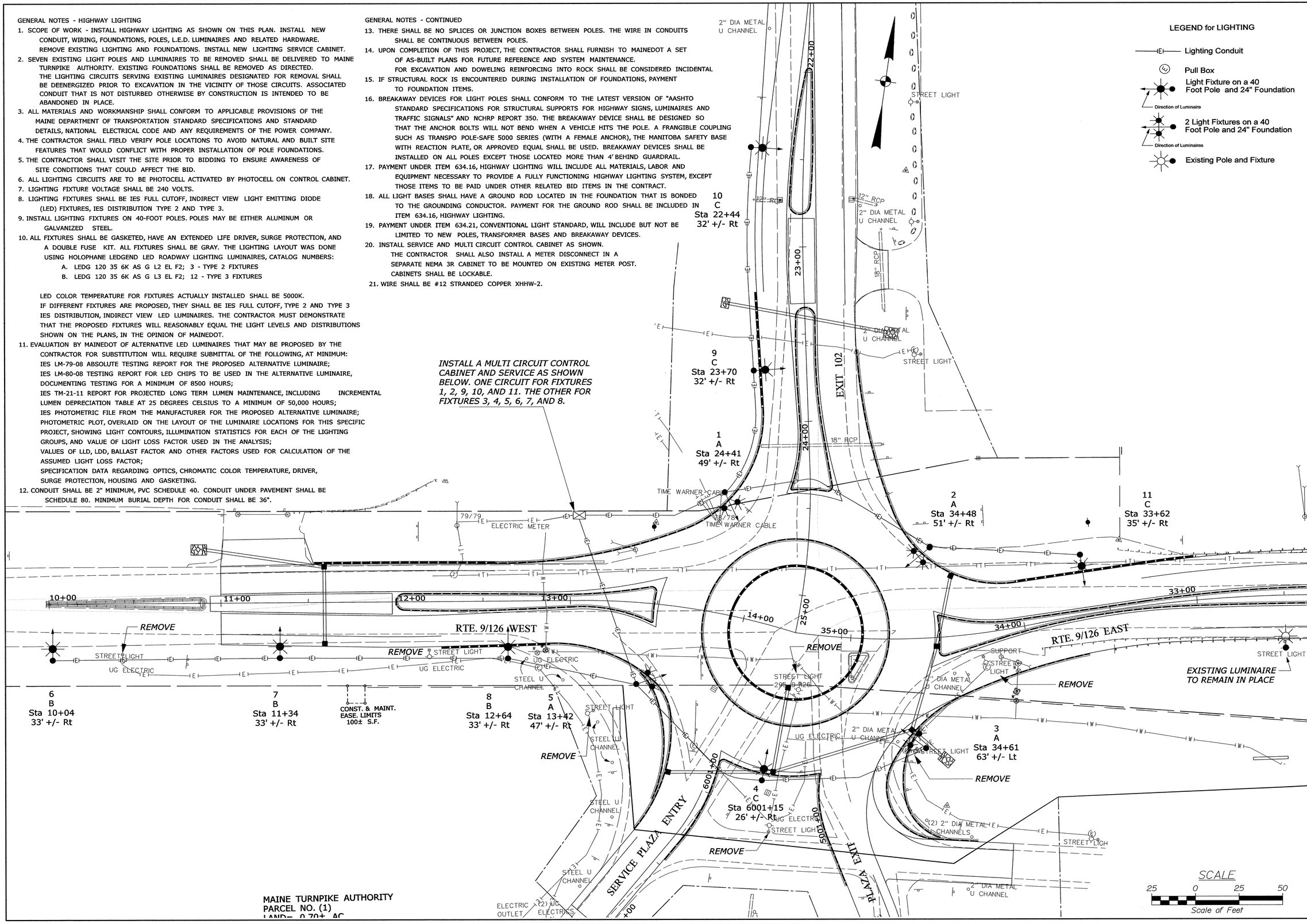
GENERAL NOTES - HIGHWAY LIGHTING

1. SCOPE OF WORK - INSTALL HIGHWAY LIGHTING AS SHOWN ON THIS PLAN. INSTALL NEW CONDUIT, WIRING, FOUNDATIONS, POLES, L.E.D. LUMINAIRES AND RELATED HARDWARE. REMOVE EXISTING LIGHTING AND FOUNDATIONS. INSTALL NEW LIGHTING SERVICE CABINET.
2. SEVEN EXISTING LIGHT POLES AND LUMINAIRES TO BE REMOVED SHALL BE DELIVERED TO MAINE TURNPIKE AUTHORITY. EXISTING FOUNDATIONS SHALL BE REMOVED AS DIRECTED. THE LIGHTING CIRCUITS SERVING EXISTING LUMINAIRES DESIGNATED FOR REMOVAL SHALL BE DEENERGIZED PRIOR TO EXCAVATION IN THE VICINITY OF THOSE CIRCUITS. ASSOCIATED CONDUIT THAT IS NOT DISTURBED OTHERWISE BY CONSTRUCTION IS INTENDED TO BE ABANDONED IN PLACE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO APPLICABLE PROVISIONS OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DETAILS, NATIONAL ELECTRICAL CODE AND ANY REQUIREMENTS OF THE POWER COMPANY.
4. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS TO AVOID NATURAL AND BUILT SITE FEATURES THAT WOULD CONFLICT WITH PROPER INSTALLATION OF POLE FOUNDATIONS.
5. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ENSURE AWARENESS OF SITE CONDITIONS THAT COULD AFFECT THE BID.
6. ALL LIGHTING CIRCUITS ARE TO BE PHOTOCELL ACTIVATED BY PHOTOCELL ON CONTROL CABINET.
7. LIGHTING FIXTURE VOLTAGE SHALL BE 240 VOLTS.
8. LIGHTING FIXTURES SHALL BE IES FULL CUTOFF, INDIRECT VIEW LIGHT EMITTING DIODE (LED) FIXTURES, IES DISTRIBUTION TYPE 2 AND TYPE 3.
9. INSTALL LIGHTING FIXTURES ON 40-FOOT POLES. POLES MAY BE EITHER ALUMINUM OR GALVANIZED STEEL.
10. ALL FIXTURES SHALL BE GASKETED, HAVE AN EXTENDED LIFE DRIVER, SURGE PROTECTION, AND A DOUBLE FUSE KIT. ALL FIXTURES SHALL BE GRAY. THE LIGHTING LAYOUT WAS DONE USING HOLOPHANE LEDGEND LED ROADWAY LIGHTING LUMINAIRES, CATALOG NUMBERS:
    A. LEDG 120 35 6K AS G L2 EL F2; 3 - TYPE 2 FIXTURES
    B. LEDG 120 35 6K AS G L3 EL F2; 12 - TYPE 3 FIXTURES

    LED COLOR TEMPERATURE FOR FIXTURES ACTUALLY INSTALLED SHALL BE 5000K. IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE IES FULL CUTOFF, TYPE 2 AND TYPE 3 IES DISTRIBUTION, INDIRECT VIEW LED LUMINAIRES. THE CONTRACTOR MUST DEMONSTRATE THAT THE PROPOSED FIXTURES WILL REASONABLY EQUAL THE LIGHT LEVELS AND DISTRIBUTIONS SHOWN ON THE PLANS, IN THE OPINION OF MAINEDOT.
11. EVALUATION BY MAINEDOT OF ALTERNATIVE LED LUMINAIRES THAT MAY BE PROPOSED BY THE CONTRACTOR FOR SUBSTITUTION WILL REQUIRE SUBMITTAL OF THE FOLLOWING, AT MINIMUM:
    IES LM-79-08 ABSOLUTE TESTING REPORT FOR THE PROPOSED ALTERNATIVE LUMINAIRE;
    IES LM-80-08 TESTING REPORT FOR LED CHIPS TO BE USED IN THE ALTERNATIVE LUMINAIRE, DOCUMENTING TESTING FOR A MINIMUM OF 8500 HOURS;
    IES TM-21-11 REPORT FOR PROJECTED LONG TERM LUMEN MAINTENANCE, INCLUDING INCREMENTAL LUMEN DEPRECIATION TABLE AT 25 DEGREES CELSIUS TO A MINIMUM OF 50,000 HOURS;
    IES PHOTOMETRIC FILE FROM THE MANUFACTURER FOR THE PROPOSED ALTERNATIVE LUMINAIRE;
    PHOTOMETRIC PLOT, OVERLAID ON THE LAYOUT OF THE LUMINAIRE LOCATIONS FOR THIS SPECIFIC PROJECT, SHOWING LIGHT CONTOURS, ILLUMINATION STATISTICS FOR EACH OF THE LIGHTING GROUPS, AND VALUE OF LIGHT LOSS FACTOR USED IN THE ANALYSIS;
    VALUES OF LLD, LDD, BALLAST FACTOR AND OTHER FACTORS USED FOR CALCULATION OF THE ASSUMED LIGHT LOSS FACTOR;
    SPECIFICATION DATA REGARDING OPTICS, CHROMATIC COLOR TEMPERATURE, DRIVER, SURGE PROTECTION, HOUSING AND GASKETING.
12. CONDUIT SHALL BE 2" MINIMUM, PVC SCHEDULE 40. CONDUIT UNDER PAVEMENT SHALL BE SCHEDULE 80. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 36".

GENERAL NOTES - CONTINUED

13. THERE SHALL BE NO SPLICES OR JUNCTION BOXES BETWEEN POLES. THE WIRE IN CONDUITS SHALL BE CONTINUOUS BETWEEN POLES.
14. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO MAINEDOT A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.
    FOR EXCAVATION AND DOWELING REINFORCING INTO ROCK SHALL BE CONSIDERED INCIDENTAL
15. IF STRUCTURAL ROCK IS ENCOUNTERED DURING INSTALLATION OF FOUNDATIONS, PAYMENT TO FOUNDATION ITEMS.
16. BREAKAWAY DEVICES FOR LIGHT POLES SHALL CONFORM TO THE LATEST VERSION OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND NCHRP REPORT 350. THE BREAKAWAY DEVICE SHALL BE DESIGNED SO THAT THE ANCHOR BOLTS WILL NOT BEND WHEN A VEHICLE HITS THE POLE. A FRANGIBLE COUPLING SUCH AS TRANSPO POLE-SAFE 5000 SERIES (WITH A FEMALE ANCHOR), THE MANITOBA SAFETY BASE WITH REACTION PLATE, OR APPROVED EQUAL SHALL BE USED. BREAKAWAY DEVICES SHALL BE INSTALLED ON ALL POLES EXCEPT THOSE LOCATED MORE THAN 4' BEHIND GUARDRAIL.
17. PAYMENT UNDER ITEM 634.16, HIGHWAY LIGHTING WILL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PROVIDE A FULLY FUNCTIONING HIGHWAY LIGHTING SYSTEM, EXCEPT THOSE ITEMS TO BE PAID UNDER OTHER RELATED BID ITEMS IN THE CONTRACT.
18. ALL LIGHT BASES SHALL HAVE A GROUND ROD LOCATED IN THE FOUNDATION THAT IS BONDED TO THE GROUNDING CONDUCTOR. PAYMENT FOR THE GROUND ROD SHALL BE INCLUDED IN ITEM 634.16, HIGHWAY LIGHTING.
19. PAYMENT UNDER ITEM 634.21, CONVENTIONAL LIGHT STANDARD, WILL INCLUDE BUT NOT BE LIMITED TO NEW POLES, TRANSFORMER BASES AND BREAKAWAY DEVICES.
20. INSTALL SERVICE AND MULTI CIRCUIT CONTROL CABINET AS SHOWN. THE CONTRACTOR SHALL ALSO INSTALL A METER DISCONNECT IN A SEPARATE NEMA 3R CABINET TO BE MOUNTED ON EXISTING METER POST. CABINETS SHALL BE LOCKABLE.
21. WIRE SHALL BE #12 STRANDED COPPER XHHW-2.



MAINE TURNPIKE AUTHORITY
PARCEL NO. (1)
LAND= 0.70± AC

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE ALBERT L. GODFREY No. 4226 LICENSED PROFESSIONAL ENGINEER

SIGNATURE 4226 P.E. NUMBER
11-19-14 DATE

PROJ. MANAGER $PROJMANAGER$	BY	DATE
DESIGN-DETAILED	RAL	June, '14
CHECKED-REVIEWED	ALG	Oct. '14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WEST GARDINER ROUNDABOUT

LIGHTING PLANS

SHEET NUMBER

13

OF 57

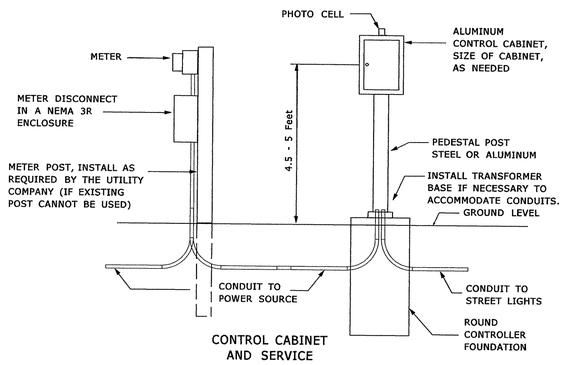
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

STATISTICS

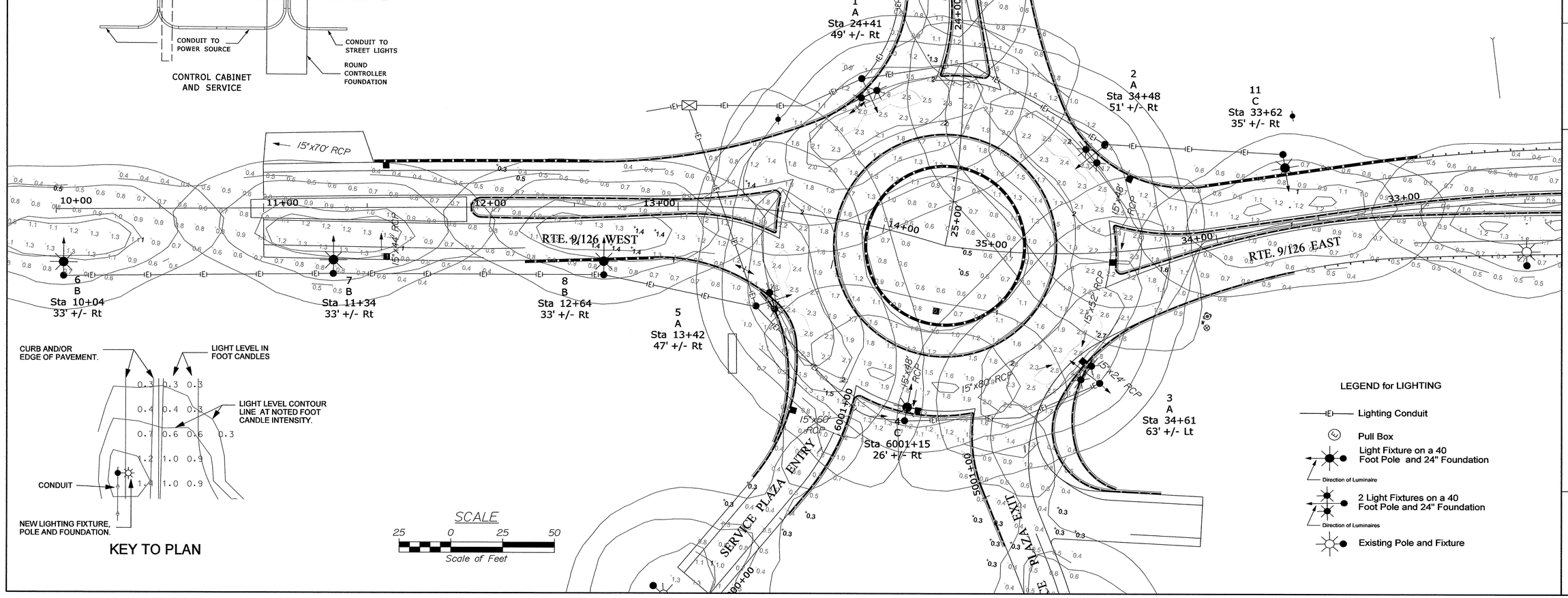
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Roundabout	+	1.6 fc	2.7 fc	0.5 fc	5.4:1	3.2:1
Rte 126 E/o Roundabout	+	0.8 fc	1.6 fc	0.3 fc	5.3:1	2.7:1
Rte 126 W/o Roundabout	+	0.8 fc	1.4 fc	0.3 fc	4.7:1	2.7:1
Service Plaza Drives	+	0.8 fc	1.5 fc	0.3 fc	5.0:1	2.7:1
Turnpike Exit	+	0.7 fc	1.3 fc	0.3 fc	4.3:1	2.3:1

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	C	4	LEDG 120 35 6K AS 0 X L3	LEDGEND ROADWAY LED	120 LED ARRAY	LEDG_120_35_6K_AS_0_X_L3.ies	Absolute	0.79	130
	B	3	LEDG 120 35 6K AS 0 X L2	LEDGEND ROADWAY LED	120 LED ARRAY	LEDG_120_35_6K_AS_0_X_L2.ies	Absolute	0.79	130
	A	4	LEDG 120 35 6K AS 0 X L3	2 LEDGEND ROADWAY LED	120 LED ARRAY	LEDG_120_35_6K_AS_0_X_L3.ies	Absolute	0.79	260



CONTROL CABINET AND SERVICE



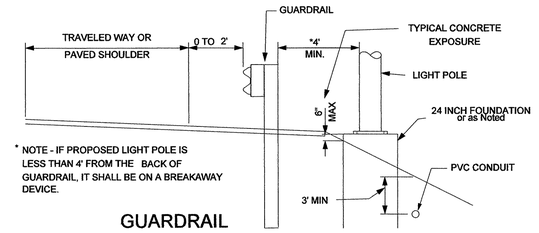
KEY TO PLAN

SCALE

25 0 25 50

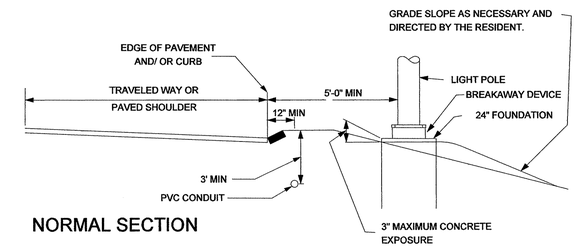
Scale of Feet

TYPICAL SECTIONS - PLACEMENT OF POLES



* NOTE - IF PROPOSED LIGHT POLE IS LESS THAN 4' FROM THE BACK OF GUARDRAIL, IT SHALL BE ON A BREAKAWAY DEVICE.

GUARDRAIL



NORMAL SECTION

LEGEND for LIGHTING

- Lighting Conduit
- Pull Box
- Light Fixture on a 40 Foot Pole and 24" Foundation (Direction of Luminaire)
- 2 Light Fixtures on a 40 Foot Pole and 24" Foundation (Direction of Luminaires)
- Existing Pole and Fixture

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE ALBERT L. GODFREY No. 4226 LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
4226	P.E. NUMBER	
11-19-14	DATE	

PROJ. MANAGER $PROJMANAGER$	BY	DATE
DESIGN-DETAILED	RAL	June, '14
CHECKED-REVIEWED	ALG	Oct. '14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WEST GARDINER ROUNDABOUT

LIGHTING PLANS

SHEET NUMBER

14

OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

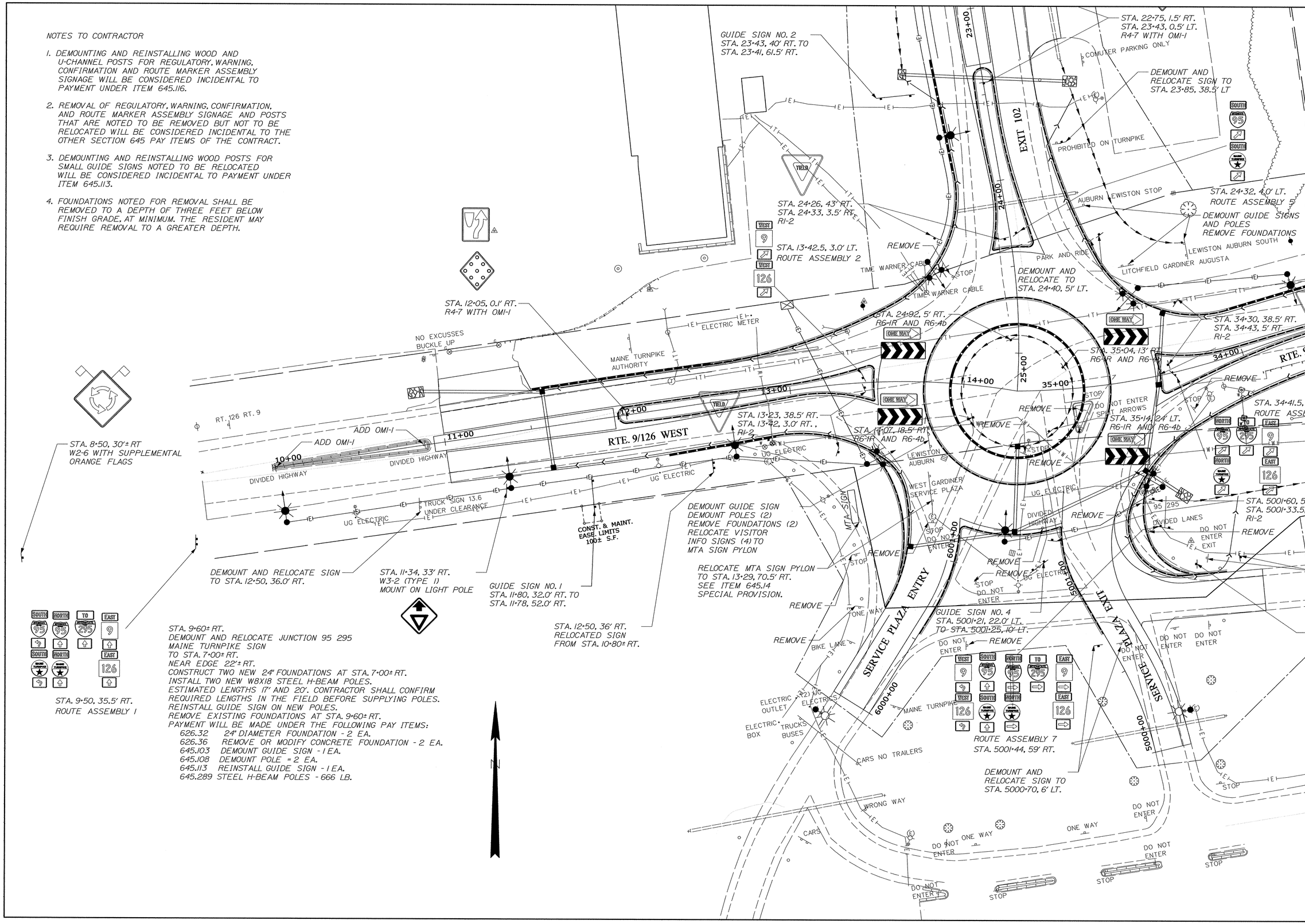
NOTES TO CONTRACTOR

1. DEMOUNTING AND REINSTALLING WOOD AND U-CHANNEL POSTS FOR REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNAGE WILL BE CONSIDERED INCIDENTAL TO PAYMENT UNDER ITEM 645.116.

2. REMOVAL OF REGULATORY, WARNING, CONFIRMATION, AND ROUTE MARKER ASSEMBLY SIGNAGE AND POSTS THAT ARE NOTED TO BE REMOVED BUT NOT TO BE RELOCATED WILL BE CONSIDERED INCIDENTAL TO THE OTHER SECTION 645 PAY ITEMS OF THE CONTRACT.

3. DEMOUNTING AND REINSTALLING WOOD POSTS FOR SMALL GUIDE SIGNS NOTED TO BE RELOCATED WILL BE CONSIDERED INCIDENTAL TO PAYMENT UNDER ITEM 645.113.

4. FOUNDATIONS NOTED FOR REMOVAL SHALL BE REMOVED TO A DEPTH OF THREE FEET BELOW FINISH GRADE, AT MINIMUM. THE RESIDENT MAY REQUIRE REMOVAL TO A GREATER DEPTH.



STA. 9+50, 35.5' RT.
ROUTE ASSEMBLY 1

STA. 9+60± RT.
DEMOUNT AND RELOCATE JUNCTION 95 295
MAINE TURNPIKE SIGN
TO STA. 7+00± RT.
NEAR EDGE 22'± RT.
CONSTRUCT TWO NEW 24" FOUNDATIONS AT STA. 7+00± RT.
INSTALL TWO NEW W8X18 STEEL H-BEAM POLES.
ESTIMATED LENGTHS 17' AND 20'. CONTRACTOR SHALL CONFIRM
REQUIRED LENGTHS IN THE FIELD BEFORE SUPPLYING POLES.
REINSTALL GUIDE SIGN ON NEW POLES.
REMOVE EXISTING FOUNDATIONS AT STA. 9+60± RT.
PAYMENT WILL BE MADE UNDER THE FOLLOWING PAY ITEMS:

626.32	24" DIAMETER FOUNDATION - 2 EA.
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION - 2 EA.
645.103	DEMOUNT GUIDE SIGN - 1 EA.
645.108	DEMOUNT POLE - 2 EA.
645.113	REINSTALL GUIDE SIGN - 1 EA.
645.289	STEEL H-BEAM POLES - 666 LB.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. JESSON
No. 7960
LICENSED
PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
11-19-14
DATE

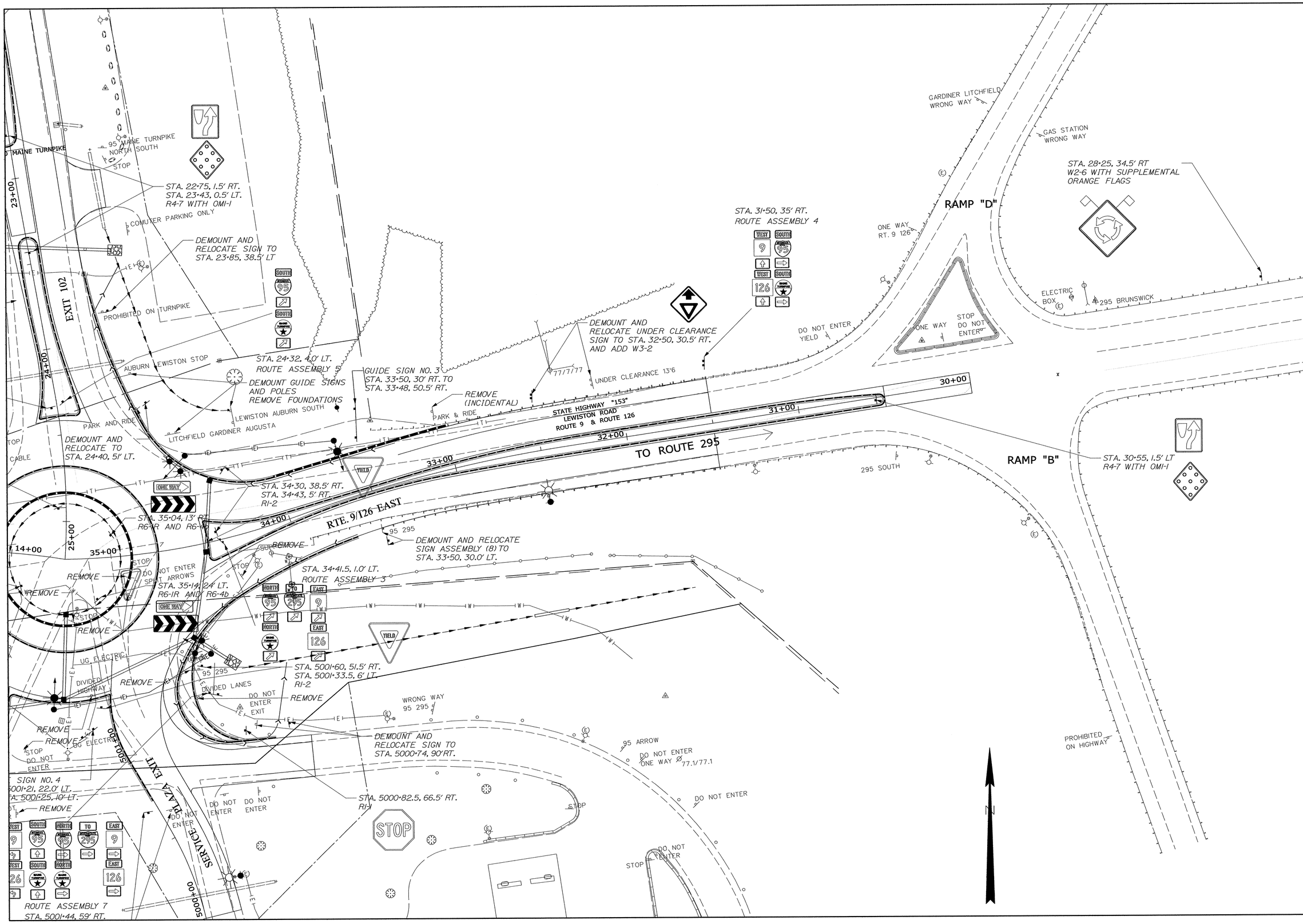
		DATE
PROJ. MANAGER RHOBE MOULTON	BY	
DESIGN-DETAILED	JLE	9-14
CHECKED-REVIEWED	ALG	10-14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WEST GARDINER
EXIT 102 / ROUTE 9

SIGNING PLANS

SHEET NUMBER
15
OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE

7960
P.E. NUMBER

11-19-14
DATE

	BY	DATE
PROJ. MANAGER RHOBE MOULTON		
DESIGN-DETAILED	JLE	9-14
CHECKED-REVIEWED	ALG	10-14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
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REVISIONS 4		
FIELD CHANGES		

WEST GARDINER EXIT 102 / ROUTE 9

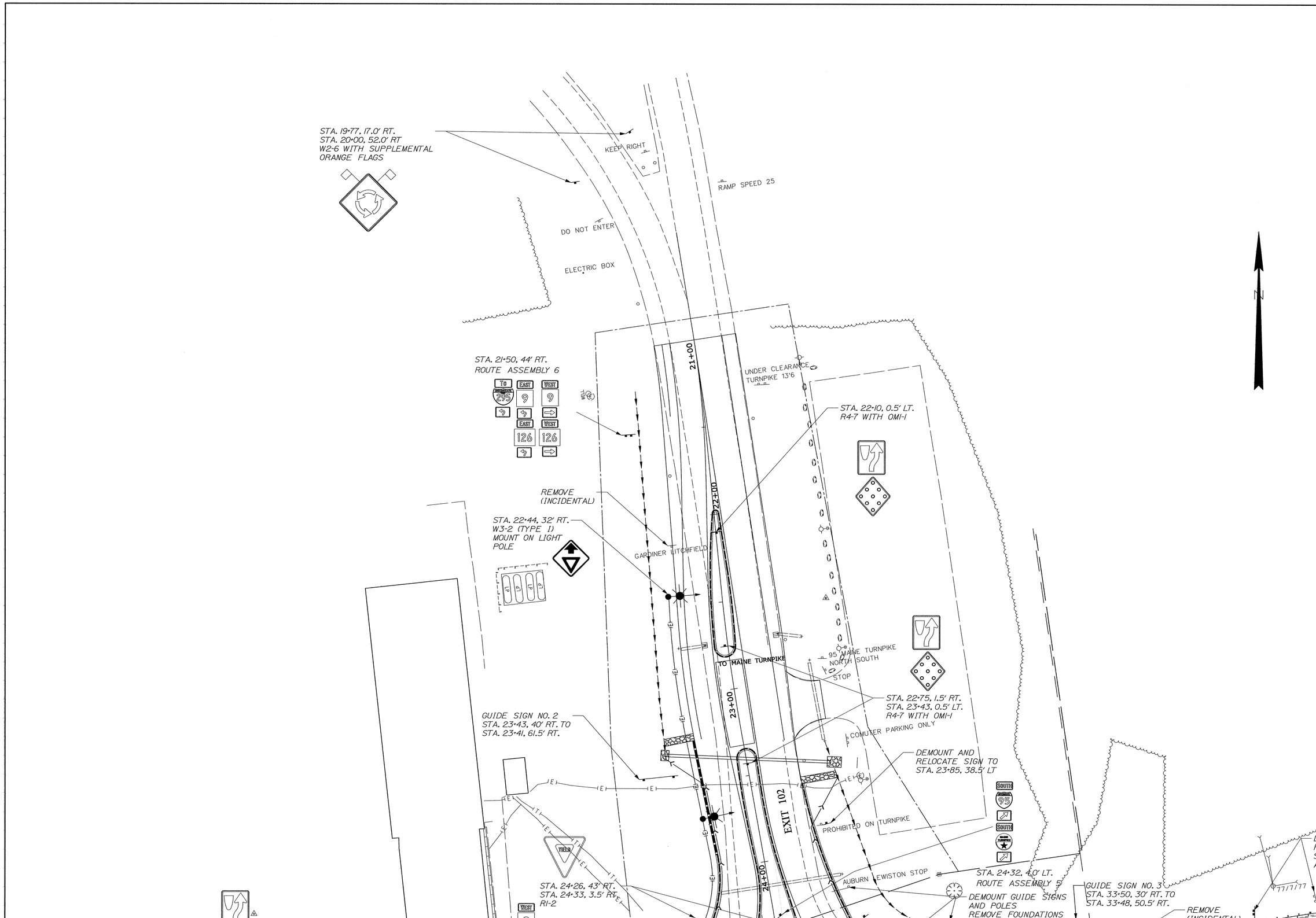
SIGNING PLANS

SHEET NUMBER

16

OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
PROFESSIONAL ENGINEER

PROJ. MANAGER RHOBE MOULTON	BY	DATE
DESIGN-DETAILED	JLE	9-14
CHECKED-REVIEWED	ALG	10-14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
11-19-14
DATE

WEST GARDINER EXIT 102 / ROUTE 9

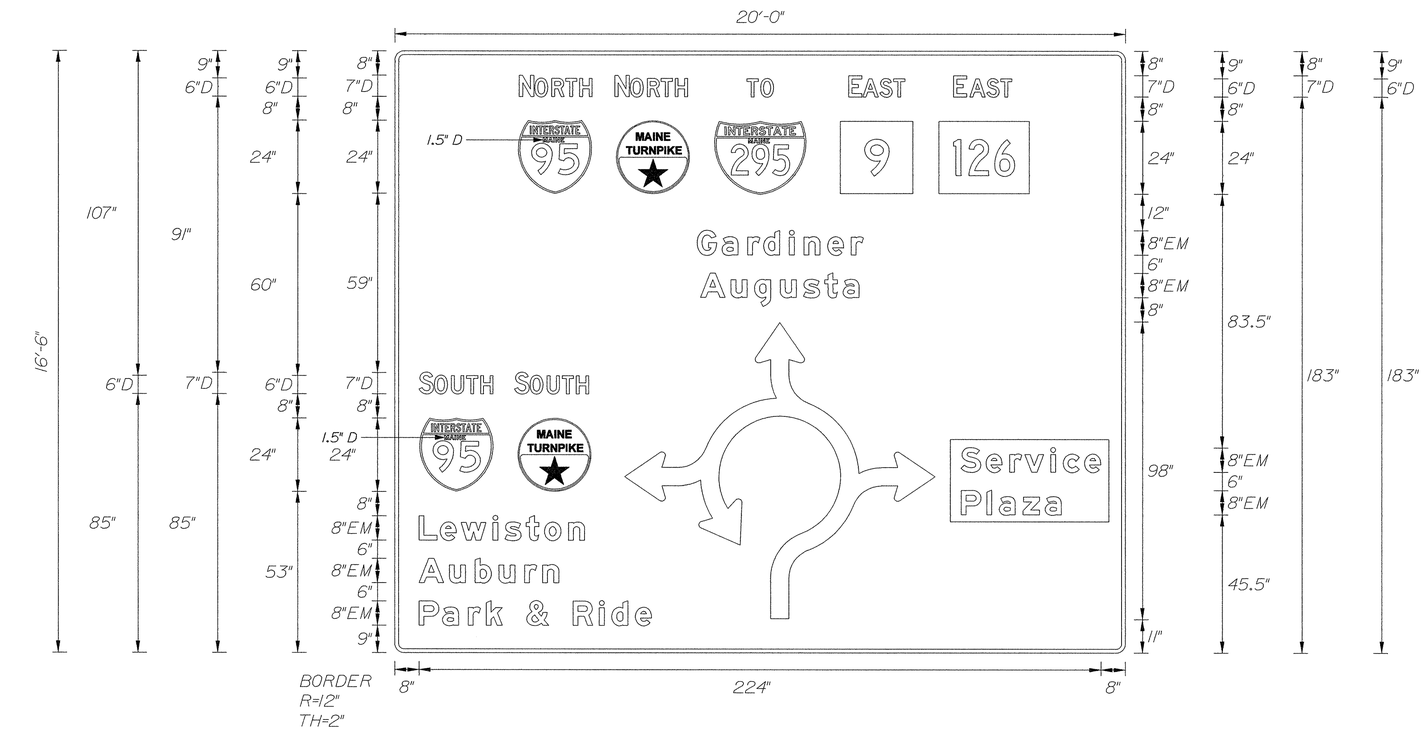
SIGNING PLANS

SHEET NUMBER

17

OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

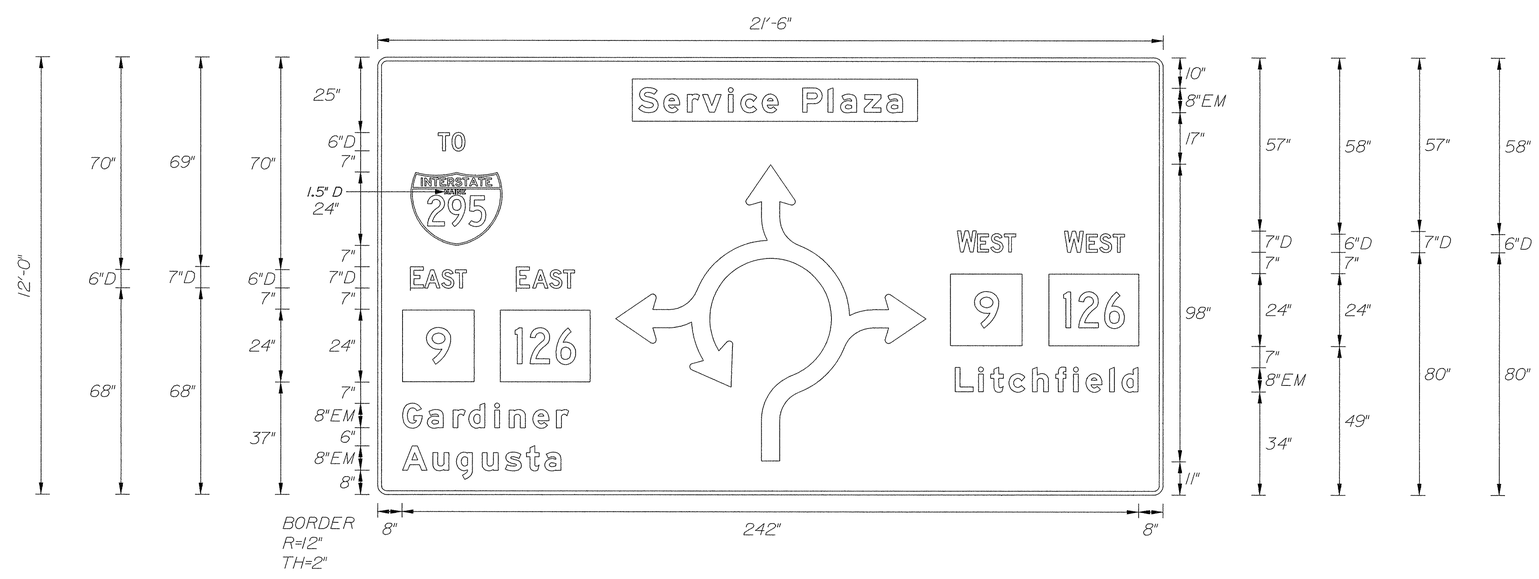


GUIDE SIGN #1

ROUTE 9/126 - EASTBOUND APPROACH
STA. 11+80, 32.0' RT TO STA. 11+78, 52' RT.

TYPE I SIGN

TRIPLE W14X30 POSTS
30" FOUNDATIONS



GUIDE SIGN #2

EXIT 102, I-95 NORTHBOUND OFF RAMP
STA. 23+43, 40.0' RT. TO STA. 23+41, 61.5' RT.

TYPE I SIGN

DOUBLE W14X30 POSTS
30" FOUNDATIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE JAMES L. EASON No. 7960 LICENSED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	
		P.E. NUMBER	
		11-19-14	
		DATE	

PROJ. MANAGER	RHOBE MOULTON	BY	DATE
DESIGN-DETAILED	JLE	JLE	9-14
CHECKED-REVIEWED	JLE	ALG	10-14
DESIGN2-DETAILED2	ALG		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WEST GARDINER
EXIT 102 / ROUTE 9

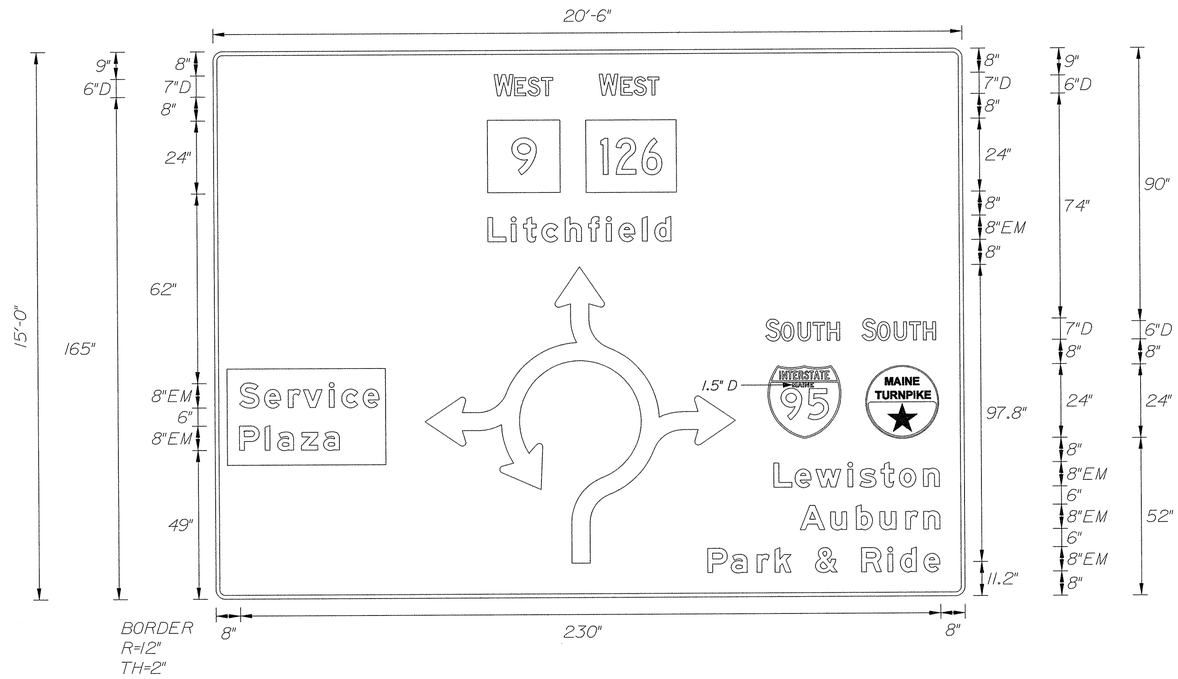
GUIDE SIGN DETAILS

SHEET NUMBER

18

OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



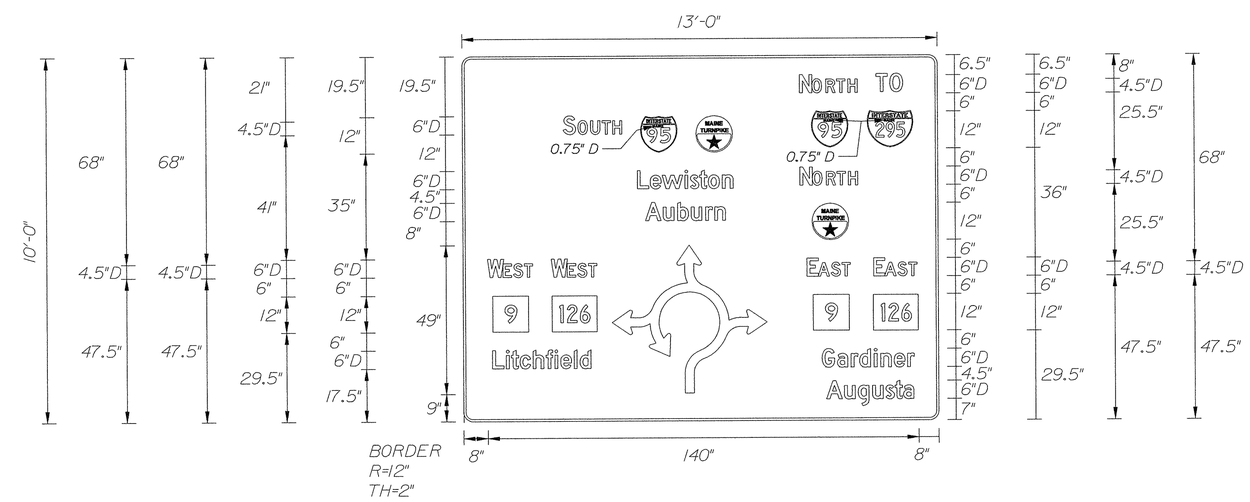
GUIDE SIGN #3

ROUTE 9/126 - WESTBOUND APPROACH
STA. 33+50, 30.0' RT TO STA. 33+48, 50.5' RT.

TYPE I SIGN

TRIPLE WI2X26 POSTS
30" FOUNDATIONS

TRANSPO BREAK-SAFE MODEL B650
WITH TYPE B ANCHORS



GUIDE SIGN #4

SERVICE PLAZA EXIT
STA. 5001+21, 22.0' LT. TO STA. 5001+25, 10.0' LT.

TYPE I SIGN

DOUBLE WIOX22 POSTS
24" FOUNDATIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20126.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. JEWSON
No. 7960
LICENSED
PROFESSIONAL ENGINEER

PROJ. MANAGER	RHOBE MOULTON	BY	DATE
DESIGN-DETAILED	JLE	JLE	9-14
CHECKED-REVIEWED	ALG		10-14
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

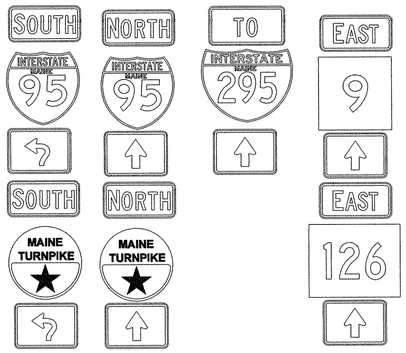
SIGNATURE
7960
P.E. NUMBER
11-19-14
DATE

WEST GARDINER
EXIT 102 / ROUTE 9

GUIDE SIGN DETAILS

SHEET NUMBER
19
OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



ROUTE ASSEMBLY 1
ROUTE 9/126

STA. 9+50, 35.5' RT.
EASTBOUND APPROACH

TRIPLE 6"X6" WOOD POSTS
TYPE II SIGN

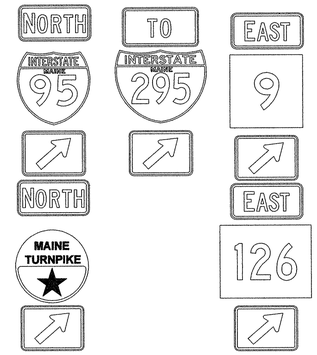
AREA = 59.31 SF

ROUTE ASSEMBLY 2
ROUTE 9/126

STA. 13+42.5, 3.0' LT.
WESTBOUND APPROACH

SINGLE 6"X6" WOOD POST
TYPE II SIGN

AREA = 17.38 SF

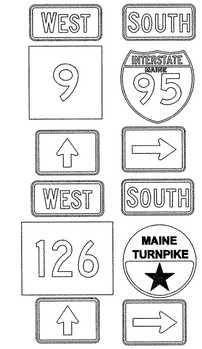


ROUTE ASSEMBLY 3
ROUTE 9/126

STA. 34+41.5, 1.0' LT.
EASTBOUND APPROACH

DOUBLE 6"X6" WOOD POSTS
TYPE II SIGN

AREA = 42.93 SF



ROUTE ASSEMBLY 4
ROUTE 9/126

STA. 31+50, 35' RT.
WESTBOUND APPROACH

DOUBLE 6"X6" WOOD POSTS
TYPE II SIGN

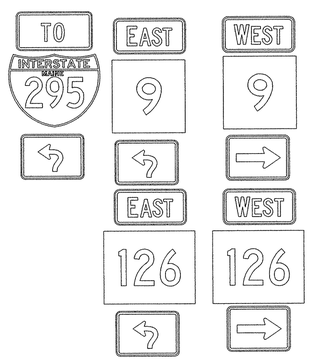
AREA = 33.75 SF

ROUTE ASSEMBLY 5
EXIT 102

STA. 24+32, 4.0' LT.
NORTHBOUND APPROACH

SINGLE 6"X6" WOOD POST
TYPE II SIGN

AREA = 16.38 SF

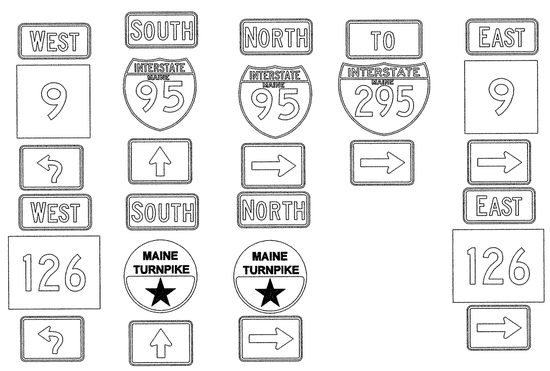


ROUTE ASSEMBLY 6
EXIT 102

STA. 21+50, 44' LT.
SOUTHBOUND APPROACH

DOUBLE 6"X6" WOOD POSTS
TYPE II SIGN

AREA = 43.94 SF



ROUTE ASSEMBLY 7
SERVICE PLAZA EXIT

STA. 5001+44, 59.0' RT.
NORTHBOUND APPROACH

TRIPLE 6"X6" WOOD POST
TYPE II SIGN

AREA = 76.68 SF

STATE OF MAINE
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STP-2021(600)

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HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
11-19-14		
DATE		

PROJ. MANAGER RHOBE MOULTON	BY	DATE
DESIGN-DETAILED	JLE	9-14
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DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
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REVISIONS 4		
FIELD CHANGES		

WEST GARDINER
EXIT 102 / ROUTE 9

ROUTE SIGN ASSEMBLY

SHEET NUMBER
20
OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

NUMBER	SIZE OF SIGN		GRAPHIC	NUMBER OF SIGNS REQUIRED	COLOR		TOTAL AREA IN SQ. FEET	TYPE	SUPPORT	REMARK
	WIDTH (IN)	HEIGHT (IN)			BACK-GROUND	LEGEND BORDER				
RI-1	36	36	STOP	1	RED	WHITE	7.45	II	4"X4" WOOD POST	---
RI-2	36	36	YIELD	8	WHITE	RED	30.72	II	U-CHANNEL	---
R4-7	24	30		5	WHITE	BLACK	25.00	II (ALUM.)	U-CHANNEL	---
R6-1R	36	12	ONE WAY	4	BLACK	BLACK/ WHITE	12.00	II	DOUBLE 4"X4" WOOD POST	---
R6-4b	60	24		4	WHITE	BLACK	40.00	II	---	MOUNTED WITH R6-1R
MI-1 (95)	24	24	INTERSTATE MAINE 95	7	RED TOP/ BLUE BOTTOM	WHITE	28.00	II	ROUTE ASSEMBLY	"MAINE" 1.5" D FONT & SEE DETAILS
MI-1 (295)	30	24	INTERSTATE MAINE 295	4	RED TOP/ BLUE BOTTOM	WHITE	20.00	II	ROUTE ASSEMBLY	"MAINE" 1.5" D FONT & SEE DETAILS
TPK	24	24	MAINE TURNPIKE	7	WHITE	GREEN	28.00	II	ROUTE ASSEMBLY	SEE DETAILS
MI-5 (9)	24	24	9	8	WHITE	BLACK	32.00	II	ROUTE ASSEMBLY	SEE DETAILS
MI-5 (126)	30	24	126	8	WHITE	BLACK	40.00	II	ROUTE ASSEMBLY	SEE DETAILS

NUMBER	SIZE OF SIGN		GRAPHIC	NUMBER OF SIGNS REQUIRED	COLOR		TOTAL AREA IN SQ. FEET	TYPE	SUPPORT	REMARK
	WIDTH (IN)	HEIGHT (IN)			BACK-GROUND	LEGEND BORDER				
M3-1 TURNPIKE	24	12	NORTH	3	GREEN	WHITE	6.00	II	ROUTE ASSEMBLY	SEE DETAILS
M3-1 INTERSTATE	24	12	NORTH	3	BLUE	WHITE	6.00	II	ROUTE ASSEMBLY	SEE DETAILS
M3-2	24	12	EAST	8	WHITE	BLACK	16.00	II	ROUTE ASSEMBLY	SEE DETAILS
M3-3 INTERSTATE	24	12	SOUTH	4	BLUE	WHITE	8.00	II	ROUTE ASSEMBLY	SEE DETAILS
M3-3 TURNPIKE	24	12	SOUTH	4	GREEN	WHITE	8.00	II	ROUTE ASSEMBLY	SEE DETAILS
M3-4	24	12	WEST	8	WHITE	BLACK	16.00	II	ROUTE ASSEMBLY	SEE DETAILS
M4-5 INTERSTATE	24	12	TO	4	BLUE	WHITE	8.00	II	ROUTE ASSEMBLY	SEE DETAILS
M5-3	21	15		4	WHITE	BLACK	8.75	II	ROUTE ASSEMBLY	SEE DETAILS
M5-3 INTERSTATE	21	15		2	BLUE	WHITE	4.38	II	ROUTE ASSEMBLY	SEE DETAILS
M5-3 TURNPIKE	21	15		1	GREEN	WHITE	2.19	II	ROUTE ASSEMBLY	SEE DETAILS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE JAMES L. EASON No. 7960 LICENSED PROFESSIONAL ENGINEER

SIGNATURE	P.E. NUMBER
7960	11-19-14
	DATE

PROJ. MANAGER 'PHOBE MOULTON	BY	DATE
DESIGN-DETAILED	JLE	9-14
CHECKED-REVIEWED	ALG	10-14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WEST GARDINER
EXIT 102 / ROUTE 9

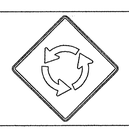
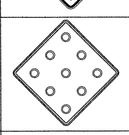
SIGN SUMMARY

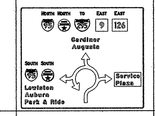
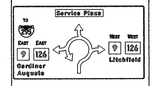
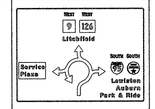
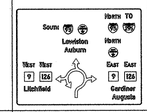
SHEET NUMBER

21

OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

NUMBER	SIZE OF SIGN		GRAPHIC	NUMBER OF SIGNS REQUIRED	COLOR		TOTAL AREA IN SQ. FEET	TYPE	SUPPORT	REMARK
	WIDTH (IN)	HEIGHT (IN)			BACK-GROUND	LEGEND BORDER				
M6-1R	21	15		4	WHITE	BLACK	8.75	II	ROUTE ASSEMBLY	SEE DETAILS
M6-1R INTERSTATE	21	15		3	BLUE	WHITE	6.56	II	ROUTE ASSEMBLY	SEE DETAILS
M6-1R TURNPIKE	21	15		2	GREEN	WHITE	4.38	II	ROUTE ASSEMBLY	SEE DETAILS
M6-2R	21	15		4	WHITE	BLACK	8.75	II	ROUTE ASSEMBLY	SEE DETAILS
M6-2R INTERSTATE	21	15		3	BLUE	WHITE	6.56	II	ROUTE ASSEMBLY	SEE DETAILS
M6-2R TURNPIKE	21	15		2	GREEN	WHITE	4.38	II	ROUTE ASSEMBLY	SEE DETAILS
M6-3	21	15		4	WHITE	BLACK	8.75	II	ROUTE ASSEMBLY	SEE DETAILS
M6-3 INTERSTATE	21	15		3	BLUE	WHITE	6.56	II	ROUTE ASSEMBLY	SEE DETAILS
M6-3 TURNPIKE	21	15		2	GREEN	WHITE	4.38	II	ROUTE ASSEMBLY	SEE DETAILS
W2-6	36	36		4	YELLOW	BLACK	36.00	II	4"X6" WOOD POST	---
W3-2	30	30		2 --- 1	YELLOW	BLACK WITH RED SYMBOL	12.50 --- 6.25	II --- II (UNLESS NOTED)	LIGHT POLE --- 4"X6" WOOD POST	---
OMI-1	18"	18"		7	YELLOW	YELLOW (REFL.)	15.75	II (ALUM.)	---	MOUNT WITH R4-7

NUMBER	SIZE OF SIGN		GRAPHIC	NUMBER OF SIGNS REQUIRED	COLOR		TOTAL AREA IN SQ. FEET	TYPE	SUPPORT	REMARK
	WIDTH (IN)	HEIGHT (IN)			BACK-GROUND	LEGEND BORDER				
GS-1	240	198		1	GREEN	WHITE	330.00	I	TRIPLE W14X30	SEE DETAILS
GS-2	258	144		1	GREEN	WHITE	258.00	I	DOUBLE W14X30	SEE DETAILS
GS-3	246	180		1	GREEN	WHITE	307.50	I	TRIPLE W12X26	SEE DETAILS
GS-4	156	120		1	GREEN	WHITE	130.00	I	DOUBLE W10X22	SEE DETAILS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

STATE OF MAINE JAMES L. EASON No. 7960 LICENSED PROFESSIONAL ENGINEER

SIGNATURE

7960 P.E. NUMBER

11-19-14 DATE

PROJ. MANAGER RHOBE MOULTON	BY	DATE
DESIGN-DETAILED	JLE	9-14
CHECKED-REVIEWED	ALG	10-14
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WEST GARDINER
EXIT 102 / ROUTE 9

SIGN SUMMARY

SHEET NUMBER

22

OF 57

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

ALIGNMENT DATA FOR MG01

		STATION	X COORD	Y COORD
		CURVE		
PC		100+00.00	1127378.25	501842.24
PI		100+20.08	1127398.16	501844.81
CC			1127273.72	502653.53
PT		100+40.15	1127417.93	501848.35
R	818.00'			
Δ	2°-48'-44" LT.			
D	7°-00'-16"			
L	40.15'			
T	20.08'			
E	0.25'			
		TANGENT		
PT		100+40.15	1127417.93	501848.35
PC		101+02.21	1127479.02	501859.29
BEARING	N 79°-50'-46" E			
L	62.06'			
		CURVE		
PC		101+02.21	1127479.02	501859.29
PI		101+36.26	1127512.53	501865.29
CC			1127494.00	501775.62
PCC		101+66.98	1127540.93	501846.49
R	85.00'			
Δ	43°-39'-39" RT.			
D	67°-24'-24"			
L	64.77'			
T	34.05'			
E	6.57'			
		CURVE		
PCC		101+66.98	1127540.93	501846.49
PI		101+76.37	1127548.75	501841.31
CC			1127524.36	501821.48
PT		101+85.18	1127552.23	501832.59
R	30.00'			
Δ	34°-44'-43" RT.			
D	190°-59'-09"			
L	18.19'			
T	9.39'			
E	1.43'			

ALIGNMENT DATA FOR MG02

		STATION	X COORD	Y COORD
		TANGENT		
POB		200+00.00	1127191.10	501836.28
PC		201+86.38	1127375.95	501860.09
BEARING	N 82°-39'-31" E			
L	186.38'			
		CURVE		
PC		201+86.38	1127375.95	501860.09
PI		202+11.12	1127400.49	501863.25
CC			1127273.72	502653.53
PT		202+35.85	1127424.80	501867.93
R	800.00'			
Δ	3°-32'-37" LT.			
D	7°-09'-43"			
L	49.48'			
T	24.75'			
E	0.38'			
		TANGENT		
PT		202+35.85	1127424.80	501867.93
PC		203+02.71	1127490.45	501880.55
BEARING	N 79°-06'-53" E			
L	66.85'			
		CURVE		
PC		203+02.71	1127490.45	501880.55
PI		203+54.80	1127541.60	501890.39
CC			1127507.44	501792.17
PT		203+97.14	1127575.61	501850.94
R	90.00'			
Δ	60°-07'-11" RT.			
D	63°-39'-43"			
L	94.44'			
T	52.09'			

ALIGNMENT DATA FOR MG03

		STATION	X COORD	Y COORD
		TANGENT		
POB		300+00.00	1127190.10	501842.87
PC		300+87.64	1127276.45	501857.82
BEARING	N 80°-10'-31" E			
L	87.64'			
		CURVE		
PC		300+87.64	1127276.45	501857.82
PI		301+84.65	1127372.04	501874.37
CC			1128129.63	496931.15
PRC		302+81.64	1127468.20	501887.21
R	5000.00'			
Δ	2°-13'-23" RT.			
D	1°-08'-45"			
L	194.00'			
T	97.01'			
E	0.94'			
		CURVE		
PRC		302+81.64	1127468.20	501887.21
PI		303+47.17	1127533.15	501895.88
CC			1127428.51	502184.57
PT		304+10.67	1127588.58	501930.84
R	300.00'			
Δ	24°-38'-37" LT.			
D	19°-05'-55"			
L	129.03'			
T	65.53'			
E	7.07'			

ALIGNMENT DATA FOR MG04

		STATION	X COORD	Y COORD
		CURVE		
PC		400+00.00	1127440.74	501899.62
PI		400+56.73	1127496.95	501907.26
CC			1127400.35	502196.89
PCC		401+12.14	1127546.50	501934.90
R	300.00'			
Δ	21°-25'-02" LT.			
D	19°-05'-55"			
L	112.14'			
T	56.73'			
E	5.32'			
		CURVE		
PCC		401+12.14	1127546.50	501934.90
PI		401+14.30	1127548.38	501935.95
CC			1127512.40	501996.03
PT		401+16.45	1127550.20	501937.11
R	70.00'			
Δ	3°-31'-40" LT.			
D	81°-51'-04"			
L	4.31'			
T	2.16'			
E	0.03'			

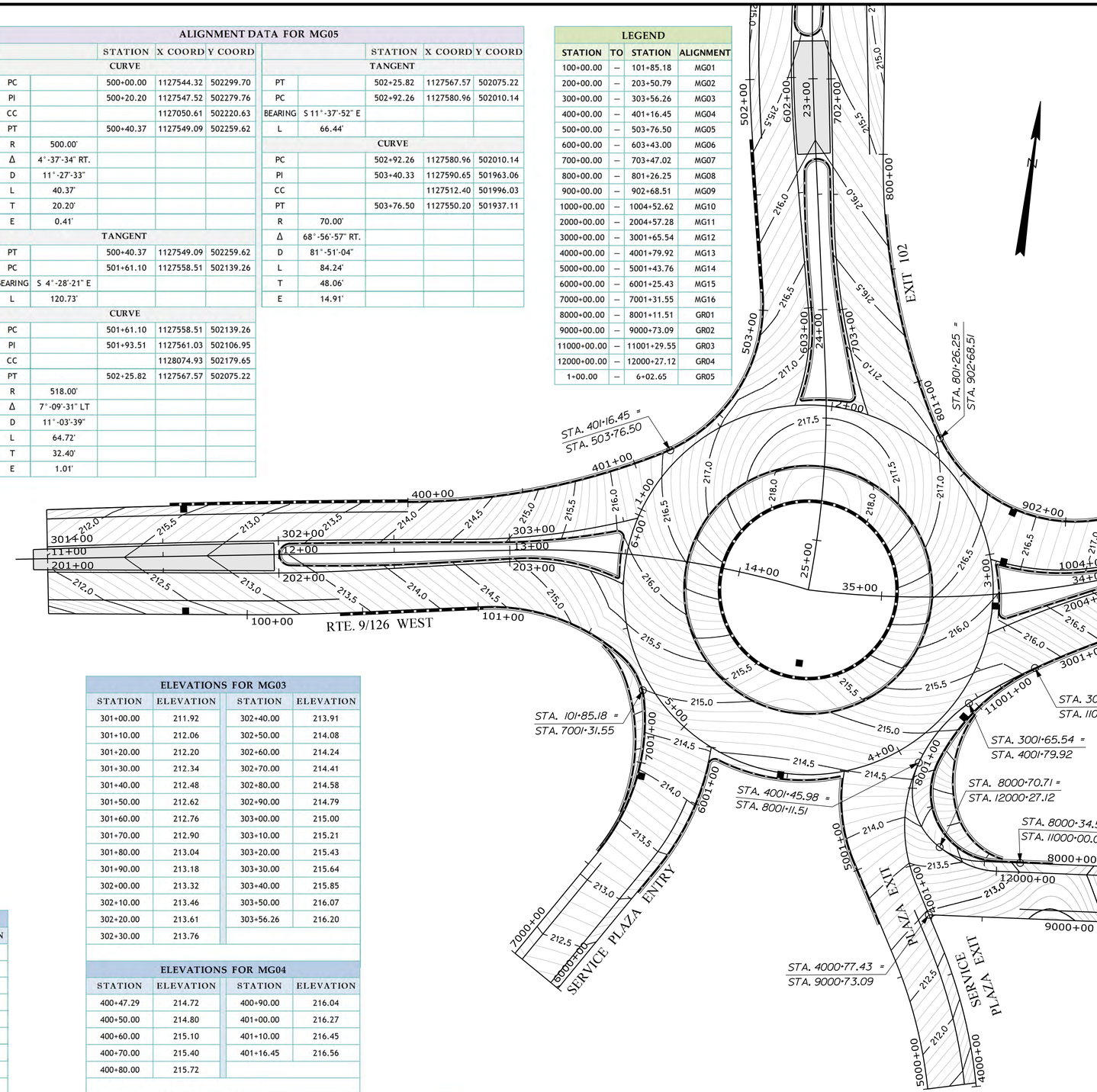
ALIGNMENT DATA FOR MG05

		STATION	X COORD	Y COORD
		CURVE		
PC		500+00.00	1127544.32	502299.70
PI		500+20.20	1127547.52	502279.76
CC			1127050.61	502220.63
PT		500+40.37	1127549.09	502259.62
R	500.00'			
Δ	4°-37'-34" RT.			
D	11°-27'-33"			
L	40.37'			
T	20.20'			
E	0.41'			
		TANGENT		
PT		500+40.37	1127549.09	502259.62
PC		501+61.10	1127558.51	502139.26
BEARING	S 4°-28'-21" E			
L	120.73'			
		CURVE		
PC		501+61.10	1127558.51	502139.26
PI		501+93.51	1127561.03	502106.95
CC			1128074.93	502179.65
PT		502+25.82	1127567.57	502075.22
R	518.00'			
Δ	7°-09'-31" LT			
D	11°-03'-39"			
L	64.72'			
T	32.40'			
E	1.01'			

		STATION	X COORD	Y COORD
		TANGENT		
PT		502+25.82	1127567.57	502075.22
PC		502+92.26	1127580.96	502010.14
BEARING	S 11°-37'-52" E			
L	66.44'			
		CURVE		
PC		502+92.26	1127580.96	502010.14
PI		503+40.33	1127590.65	501963.06
CC			1127512.40	501996.03
PT		503+76.50	1127550.20	501937.11
R	70.00'			
Δ	68°-56'-57" RT.			
D	81°-51'-04"			
L	84.24'			
T	48.06'			
E	14.91'			

LEGEND

STATION	TO	STATION	ALIGNMENT
100+00.00	–	101+85.18	MG01
200+00.00	–	203+50.79	MG02
300+00.00	–	303+56.26	MG03
400+00.00	–	401+16.45	MG04
500+00.00	–	503+76.50	MG05
600+00.00	–	603+43.00	MG06
700+00.00	–	703+47.02	MG07
800+00.00	–	801+26.25	MG08
900+00.00	–	902+68.51	MG09
1000+00.00	–	1004+52.62	MG10
2000+00.00	–	2004+57.28	MG11
3000+00.00	–	3001+65.54	MG12
4000+00.00	–	4001+79.92	MG13
5000+00.00	–	5001+43.76	MG14
6000+00.00	–	6001+25.43	MG15
7000+00.00	–	7001+31.55	MG16
8000+00.00	–	8001+11.51	GR01
9000+00.00	–	9000+73.09	GR02
11000+00.00	–	11001+29.55	GR03
12000+00.00	–	12000+27.12	GR04
1+00.00	–	6+02.65	GR05



ELEVATIONS FOR MG03

STATION	ELEVATION	STATION	ELEVATION
301+00.00	211.92	302+40.00	213.91
301+10.00	212.06	302+50.00	214.08
301+20.00	212.20	302+60.00	214.24
301+30.00	212.34	302+70.00	214.41
301+40.00	212.48	302+80.00	214.58
301+50.00	212.62	302+90.00	214.79
301+60.00	212.76	303+00.00	215.00
301+70.00	212.90	303+10.00	215.21
301+80.00	213.04	303+20.00	215.43
301+90.00	213.18	303+30.00	215.64
302+00.00	213.32	303+40.00	215.85
302+10.00	213.46	303+50.00	216.07
302+20.00	213.61	303+56.26	216.20
302+30.00	213.76		

ELEVATIONS FOR MG02

STATION	ELEVATION	STATION	ELEVATION
201+00.00	211.95	202+40.00	213.88
201+10.00	212.08	202+50.00	214.05
201+20.00	212.21	202+60.00	214.22
201+30.00	212.34	202+70.00	214.39
201+40.00	212.47	202+80.00	214.57
201+50.00	212.60	202+90.00	214.75
201+60.00	212.73	203+00.00	214.94
201+70.00	212.87	203+10.00	215.11
201+80.00	213.00	203+20.00	215.26
201+90.00	213.14	203+30.00	215.42
202+00.00	213.27	203+40.00	215.58
202+10.00	213.42	203+50.00	215.74
202+20.00	213.57	203+50.79	215.75
202+30.00	213.72		

ELEVATIONS FOR MG04

STATION	ELEVATION	STATION	ELEVATION
400+47.29	214.72	400+90.00	216.04
400+50.00	214.80	401+00.00	216.27
400+60.00	215.10	401+10.00	216.45
400+70.00	215.40	401+16.45	216.56
400+80.00	215.72		

ELEVATIONS FOR MG05

STATION	ELEVATION	STATION	ELEVATION
503+31.11	216.81	503+60.00	216.83
503+40.00	216.95	503+70.00	216.68
503+50.00	216.93	503+76.50	216.56

ELEVATIONS FOR MG01

STATION	ELEVATION	STATION	ELEVATION
101+51.98	215.21	101+80.00	215.02
101+60.00	215.16	101+85.18	214.99
101+70.00	215.09		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

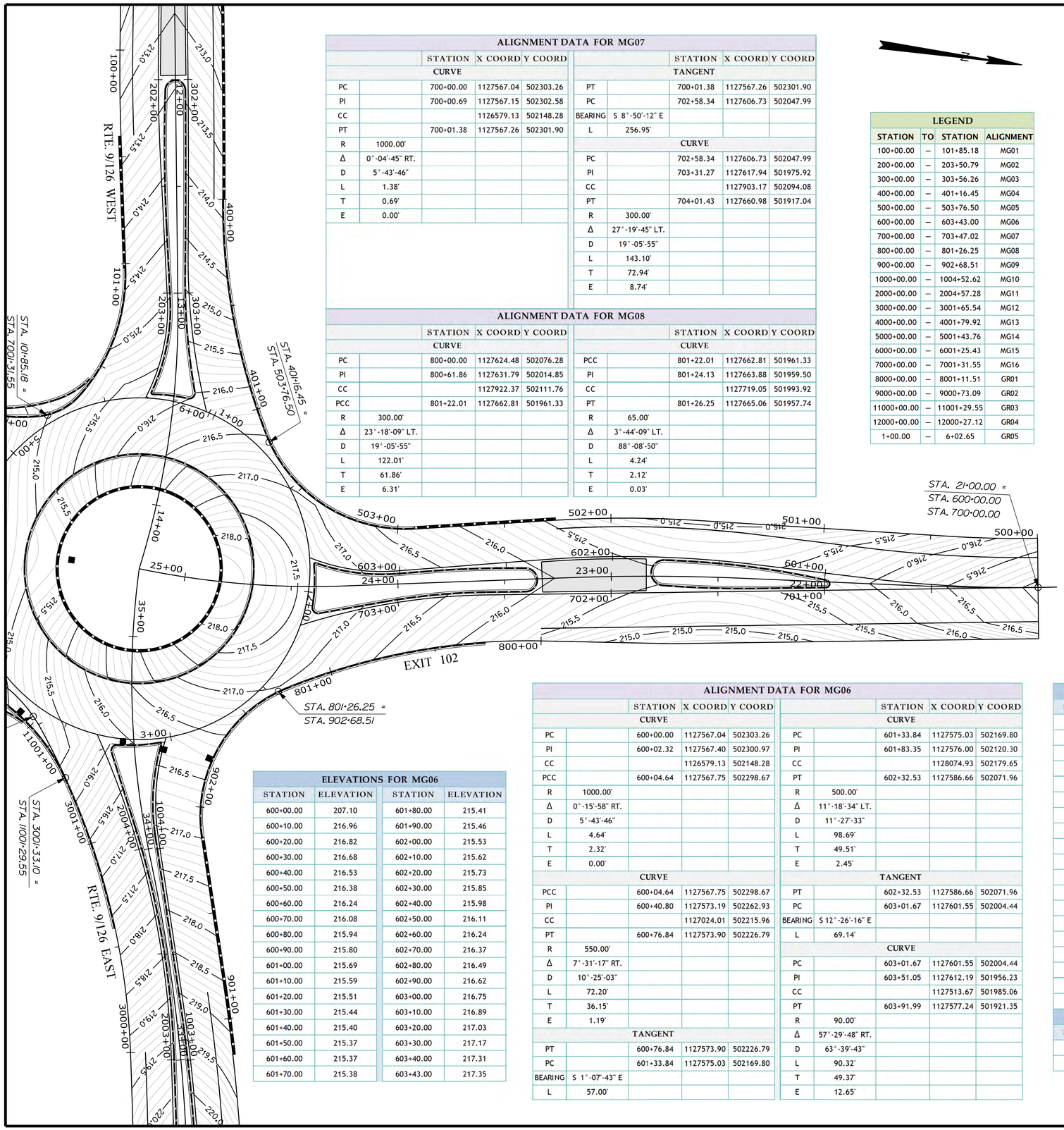
SIGNATURE
P.E. NUMBER
DATE

WEST GARDINER
EXIT 102\ROUTE 9

GRADING PLANS

SHEET NUMBER
23
OF 57

Filename: ...\HIGHWAY\MSTA\023_Grading1.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



ALIGNMENT DATA FOR MG07

		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
		CURVE					TANGENT		
PC		700+00.00	1127567.04	502303.26	PT		700+01.38	1127567.26	502301.90
PI		700+00.69	1127567.15	502302.58	PC		702+58.34	1127606.73	502047.99
CC			1126579.13	502148.28	BEARING	S 8°-50'-12" E			
PT		700+01.38	1127567.26	502301.90	L	256.95'			
R	1000.00'						CURVE		
Δ	0°-04'-45" RT.				PC		702+58.34	1127606.73	502047.99
D	5°-43'-46"				PI		703+31.27	1127617.94	501975.92
L	1.38'				CC			1127903.17	502094.08
T	0.69'				PT		704+01.43	1127660.98	501917.04
E	0.00'				R	300.00'			
					Δ	27°-19'-45" LT.			
					D	19°-05'-55"			
					L	143.10'			
					T	72.94'			
					E	8.74'			

ALIGNMENT DATA FOR MG08

		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
		CURVE					CURVE		
PC		800+00.00	1127624.48	502076.28	PCC		801+22.01	1127662.81	501961.33
PI		800+61.86	1127631.79	502014.85	PI		801+24.13	1127663.88	501959.50
CC			1127922.37	502111.76	CC			1127719.05	501993.92
PCC		801+22.01	1127662.81	501961.33	PT		801+26.25	1127665.06	501957.74
R	300.00'				R	65.00'			
Δ	23°-18'-09" LT.				Δ	3°-44'-09" LT.			
D	19°-05'-55"				D	88°-08'-50"			
L	122.01'				L	4.24'			
T	61.86'				T	2.12'			
E	6.31'				E	0.03'			

LEGEND

STATION	TO	STATION	ALIGNMENT
100+00.00	–	101+85.18	MG01
200+00.00	–	203+50.79	MG02
300+00.00	–	303+56.26	MG03
400+00.00	–	401+16.45	MG04
500+00.00	–	503+76.50	MG05
600+00.00	–	603+43.00	MG06
700+00.00	–	703+47.02	MG07
800+00.00	–	801+26.25	MG08
900+00.00	–	902+68.51	MG09
1000+00.00	–	1004+52.62	MG10
2000+00.00	–	2004+57.28	MG11
3000+00.00	–	3001+65.54	MG12
4000+00.00	–	4001+79.92	MG13
5000+00.00	–	5001+43.76	MG14
6000+00.00	–	6001+25.43	MG15
7000+00.00	–	7001+31.55	MG16
8000+00.00	–	8001+11.51	GR01
9000+00.00	–	9000+73.09	GR02
11000+00.00	–	11001+29.55	GR03
12000+00.00	–	12000+27.12	GR04
1+00.00	–	6+02.65	GR05

ALIGNMENT DATA FOR MG09

		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
		CURVE					CURVE		
PC		900+00.00	1127917.73	501977.10	PC		901+85.96	1127737.62	501931.63
PI		900+56.96	1127861.42	501968.53	PI		902+33.85	1127691.72	501917.95
CC			1128041.06	501166.42	CC			1127719.05	501993.92
PT		901+13.74	1127806.83	501952.26	PT		902+68.51	1127665.06	501957.74
R	820.00'				R	65.00'			
Δ	7°-56'-50" LT.				Δ	72°-45'-59" RT.			
D	6°-59'-14"				D	88°-08'-50"			
L	113.74'				L	82.55'			
T	56.96'				T	47.89'			
E	1.98'				E	15.74'			
		TANGENT							
PT		901+13.74	1127806.83	501952.26					
PC		901+85.96	1127737.62	501931.63					
BEARING	S 73°-24'-10" W								
L	72.22'								

ALIGNMENT DATA FOR MG10

		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
		TANGENT					TANGENT		
POB		1000+00.00	1128137.53	501990.31	PT		1003+30.25	1127812.54	501933.09
PC		1002+19.28	1127920.74	501957.33	PC		1004+06.15	1127739.80	501911.41
BEARING	S 81°-21'-00" W				BEARING	S 73°-24'-10" W			
L	219.28'				L	75.90'			
		CURVE					CURVE		
PC		1002+19.28	1127920.74	501957.33	PC		1004+06.15	1127739.80	501911.41
PI		1002+74.85	1127865.80	501948.97	PI		1004+57.98	1127690.13	501896.61
CC			1128041.06	501166.42	CC			1127711.23	502007.25
PT		1003+30.25	1127812.54	501933.09	PT		1005+01.79	1127649.39	501928.66
R	800.00'				R	100.00'			
Δ	7°-56'-50" LT.				Δ	54°-47'-51" RT.			
D	7°-09'-43"				D	57°-17'-45"			
L	110.96'				L	95.64'			
T	55.57'				T	51.83'			
E	1.93'				E	12.63'			

ALIGNMENT DATA FOR MG06

		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
		CURVE					CURVE		
PC		600+00.00	1127567.04	502303.26	PC		601+33.84	1127575.03	502169.80
PI		600+02.32	1127567.40	502300.97	PI		601+83.35	1127576.00	502120.30
CC			1126579.13	502148.28	CC			1128074.93	502179.65
PCC		600+04.64	1127567.75	502298.67	PT		602+32.53	1127586.66	502071.96
R	1000.00'				R	500.00'			
Δ	0°-15'-58" RT.				Δ	11°-18'-34" LT.			
D	5°-43'-46"				D	11°-27'-33"			
L	4.64'				L	98.69'			
T	2.32'				T	49.51'			
E	0.00'				E	2.45'			
		CURVE					TANGENT		
PCC		600+04.64	1127567.75	502298.67	PT		602+32.53	1127586.66	502071.96
PI		600+40.80	1127573.19	502262.93	PC		603+01.67	1127601.55	502004.44
CC			1127024.01	502215.96	BEARING	S 12°-26'-16" E			
PT		600+76.84	1127573.90	502226.79	L	69.14'			
R	550.00'						CURVE		
Δ	7°-31'-17" RT.				PC		603+01.67	1127601.55	502004.44
D	10°-25'-03"				PI		603+51.05	1127612.19	501956.23
L	72.20'				CC			1127513.67	501985.06
T	36.15'				PT		603+91.99	1127577.24	501921.35
E	1.19'				R	90.00'			
		TANGENT			Δ	57°-29'-48" RT.			
PT		600+76.84	1127573.90	502226.79	D	63°-39'-43"			
PC		601+33.84	1127575.03	502169.80	L	90.32'			
BEARING	S 1°-07'-43" E				T	49.37'			
L	57.00'				E	12.65'			

ELEVATIONS FOR MG06

STATION	ELEVATION	STATION	ELEVATION
600+00.00	207.10	601+80.00	215.41
600+10.00	216.96	601+90.00	215.46
600+20.00	216.82	602+00.00	215.53
600+30.00	216.68	602+10.00	215.62
600+40.00	216.53	602+20.00	215.73
600+50.00	216.38	602+30.00	215.85
600+60.00	216.24	602+40.00	215.98
600+70.00	216.08	602+50.00	216.11
600+80.00	215.94	602+60.00	216.24
600+90.00	215.80	602+70.00	216.37
601+00.00	215.69	602+80.00	216.49
601+10.00	215.59	602+90.00	216.62
601+20.00	215.51	603+00.00	216.75
601+30.00	215.44	603+10.00	216.89
601+40.00	215.40	603+20.00	217.03
601+50.00	215.37	603+30.00	217.17
601+60.00	215.37	603+40.00	217.31
601+70.00	215.38	603+43.00	217.35

ELEVATIONS FOR MG07

STATION	ELEVATION	STATION	ELEVATION
700+00.00	217.10	701+80.00	215.44
700+10.00	216.96	701+90.00	215.49
700+20.00	216.82	702+00.00	215.57
700+30.00	216.67	702+10.00	215.66
700+40.00	216.53	702+20.00	215.78
700+50.00	216.38	702+30.00	215.90
700+60.00	216.23	702+40.00	216.03
700+70.00	216.08	702+50.00	216.15
700+80.00	215.93	702+60.00	216.28
700+90.00	215.80	702+70.00	216.41
701+00.00	215.69	702+80.00	216.53
701+10.00	215.60	702+90.00	216.65
701+20.00	215.52	703+00.00	216.78
701+30.00	215.46	703+10.00	216.90
701+40.00	215.42	703+20.00	217.03
701+50.00	215.39	703+30.00	217.15
701+60.00	215.39	703+40.00	217.27
701+70.00	215.40	703+47.02	217.36

ELEVATIONS FOR MG08

STATION	ELEVATION	STATION	ELEVATION
801+06.37	216.85	801+20.00	216.92
801+10.00	216.87	801+26.25	216.95

ELEVATIONS FOR MG09

STATION	ELEVATION	STATION	ELEVATION
901+32.59	218.14	902+10.00	216.55
901+40.00	217.98	902+20.00	216.38
901+50.00	217.77	902+30.00	216.41
901+60.00	217.56	902+40.00	216.55
901+70.00	217.34	902+50.00	216.69
901+80.00	217.12	902+60.00	216.83
901+90.00	216.90	902+68.51	216.95
902+00.00	216.73		

ELEVATIONS FOR MG10

STATION	ELEVATION	STATION	ELEVATION
1001+50	221.61	1003+10	219.48
1001+60	221.50	1003+20	219.25
1001+70	221.39	1003+30	219.01
1001+80	221.27	1003+40	218.76
1001+90	221.16	1003+50	218.52
1002+00	221.05	1003+60	218.26
1002+10	220.95	1003+70	218.01
1002+20	220.85	1003+80	217.76
1002+30	220.75	1003+90	217.50
1002+40	220.64	1004+00	217.24
1002+50	220.52	1004+10	217.01
1002+60	220.38	1004+20	216.84
1002+70	220.23	1004+30	216.66
1002+80	220.06	1004+40	216.48
1002+90	219.88	1004+52.62	216.26
1003+00	219.69		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

			DATE
PROJ. MANAGER	R. MOULTON	BY	
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

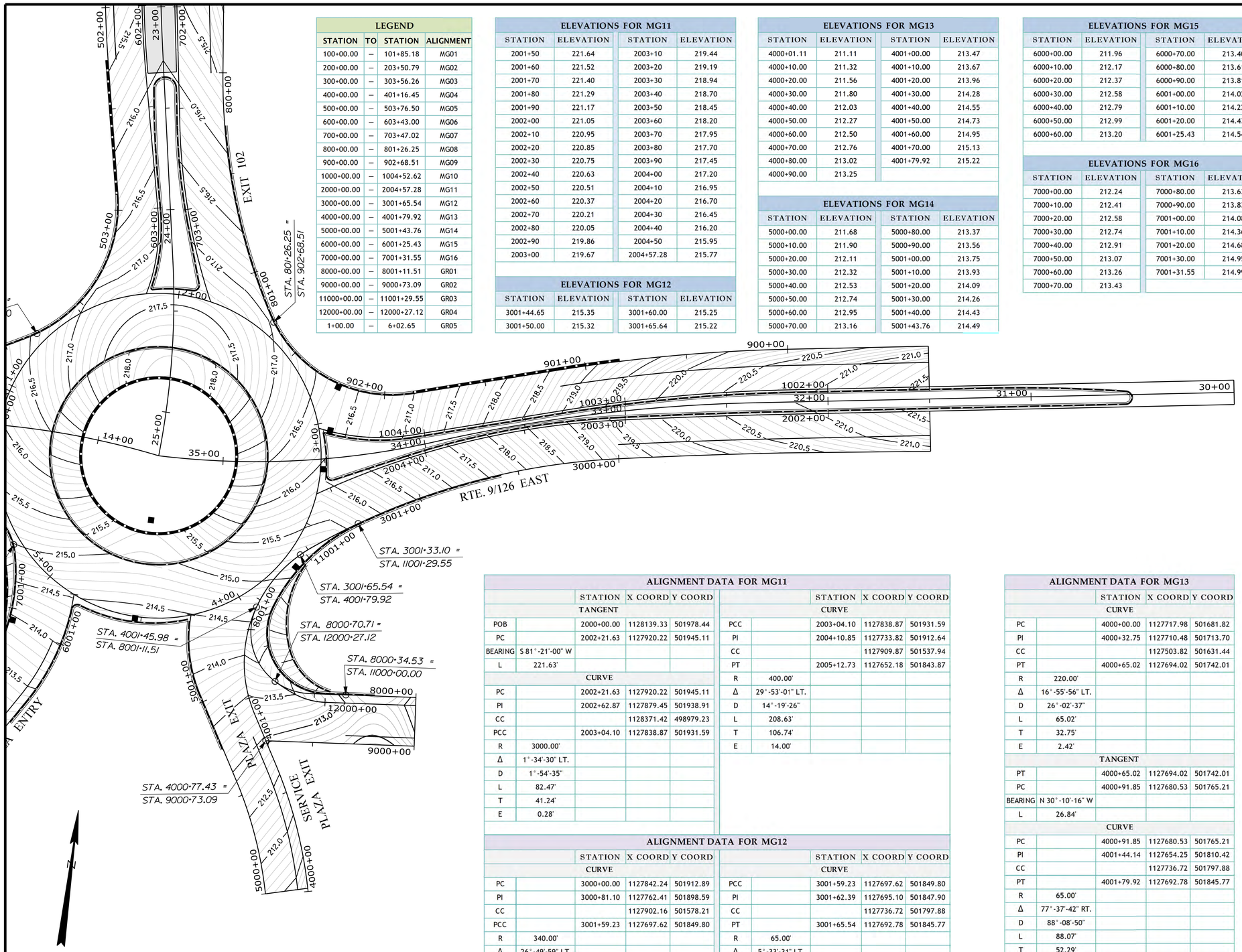
DATE

WEST GARDINER
EXIT 102\ROUTE 9

GRADING PLANS

SHEET NUMBER
24
OF 57

Filename: ...\HIGHWAY\MSTA\024_Grading2.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



LEGEND			
STATION	TO	STATION	ALIGNMENT
100+00.00	–	101+85.18	MG01
200+00.00	–	203+50.79	MG02
300+00.00	–	303+56.26	MG03
400+00.00	–	401+16.45	MG04
500+00.00	–	503+76.50	MG05
600+00.00	–	603+43.00	MG06
700+00.00	–	703+47.02	MG07
800+00.00	–	801+26.25	MG08
900+00.00	–	902+68.51	MG09
1000+00.00	–	1004+52.62	MG10
2000+00.00	–	2004+57.28	MG11
3000+00.00	–	3001+65.54	MG12
4000+00.00	–	4001+79.92	MG13
5000+00.00	–	5001+43.76	MG14
6000+00.00	–	6001+25.43	MG15
7000+00.00	–	7001+31.55	MG16
8000+00.00	–	8001+11.51	GR01
9000+00.00	–	9000+73.09	GR02
11000+00.00	–	11001+29.55	GR03
12000+00.00	–	12000+27.12	GR04
1+00.00	–	6+02.65	GR05

ELEVATIONS FOR MG11			
STATION	ELEVATION	STATION	ELEVATION
2001+50	221.64	2003+10	219.44
2001+60	221.52	2003+20	219.19
2001+70	221.40	2003+30	218.94
2001+80	221.29	2003+40	218.70
2001+90	221.17	2003+50	218.45
2002+00	221.05	2003+60	218.20
2002+10	220.95	2003+70	217.95
2002+20	220.85	2003+80	217.70
2002+30	220.75	2003+90	217.45
2002+40	220.63	2004+00	217.20
2002+50	220.51	2004+10	216.95
2002+60	220.37	2004+20	216.70
2002+70	220.21	2004+30	216.45
2002+80	220.05	2004+40	216.20
2002+90	219.86	2004+50	215.95
2003+00	219.67	2004+57.28	215.77

ELEVATIONS FOR MG12			
STATION	ELEVATION	STATION	ELEVATION
3001+44.65	215.35	3001+60.00	215.25
3001+50.00	215.32	3001+65.64	215.22

ELEVATIONS FOR MG13			
STATION	ELEVATION	STATION	ELEVATION
4000+01.11	211.11	4001+00.00	213.47
4000+10.00	211.32	4001+10.00	213.67
4000+20.00	211.56	4001+20.00	213.96
4000+30.00	211.80	4001+30.00	214.28
4000+40.00	212.03	4001+40.00	214.55
4000+50.00	212.27	4001+50.00	214.73
4000+60.00	212.50	4001+60.00	214.95
4000+70.00	212.76	4001+70.00	215.13
4000+80.00	213.02	4001+79.92	215.22
4000+90.00	213.25		

ELEVATIONS FOR MG14			
STATION	ELEVATION	STATION	ELEVATION
5000+00.00	211.68	5000+80.00	213.37
5000+10.00	211.90	5000+90.00	213.56
5000+20.00	212.11	5001+00.00	213.75
5000+30.00	212.32	5001+10.00	213.93
5000+40.00	212.53	5001+20.00	214.09
5000+50.00	212.74	5001+30.00	214.26
5000+60.00	212.95	5001+40.00	214.43
5000+70.00	213.16	5001+43.76	214.49

ELEVATIONS FOR MG15			
STATION	ELEVATION	STATION	ELEVATION
6000+00.00	211.96	6000+70.00	213.40
6000+10.00	212.17	6000+80.00	213.61
6000+20.00	212.37	6000+90.00	213.81
6000+30.00	212.58	6001+00.00	214.02
6000+40.00	212.79	6001+10.00	214.22
6000+50.00	212.99	6001+20.00	214.43
6000+60.00	213.20	6001+25.43	214.54

ELEVATIONS FOR MG16			
STATION	ELEVATION	STATION	ELEVATION
7000+00.00	212.24	7000+80.00	213.63
7000+10.00	212.41	7000+90.00	213.83
7000+20.00	212.58	7001+00.00	214.08
7000+30.00	212.74	7001+10.00	214.36
7000+40.00	212.91	7001+20.00	214.68
7000+50.00	213.07	7001+30.00	214.95
7000+60.00	213.26	7001+31.55	214.99
7000+70.00	213.43		

ALIGNMENT DATA FOR MG14				
		STATION	X COORD	Y COORD
CURVE				
PC		5000+00.00	1127697.31	501677.98
PI		5000+29.18	1127690.46	501706.35
CC			1127502.89	501631.06
PT		5000+57.96	1127675.79	501731.58
R	200.00'			
Δ	16°-36'-15" LT.			
D	28°-38'-52"			
L	57.96'			
T	29.18'			
E	2.12'			
TANGENT				
PT		5000+57.96	1127675.79	501731.58
PC		5001+03.90	1127652.70	501771.30
BEARING	N 30°-10'-15" W			
L	45.94'			
CURVE				
PC		5001+03.90	1127652.70	501771.30
PI		5001+24.39	1127642.41	501789.01
CC			1127713.22	501806.48
PT		5001+43.76	1127643.28	501809.48
R	70.00'			
Δ	32°-37'-32" RT.			
D	81°-51'-04"			
L	39.86'			
T	20.49'			
E	2.94'			

ALIGNMENT DATA FOR MG15				
		STATION	X COORD	Y COORD
TANGENT				
POB		6000+00.00	1127532.99	501699.81
PC		6000+67.37	1127568.42	501757.10
BEARING	N 31°-44'-10" E			
L	67.37'			
CURVE				
PC		6000+67.37	1127568.42	501757.10
PI		6000+97.09	1127584.06	501782.38
CC			1127474.87	501814.96
PT		6001+25.43	1127584.83	501812.09
R	110.00'			
Δ	30°-14'-21" LT.			
D	52°-05'-13"			
L	58.06'			
T	29.72'			
E	3.94'			

ALIGNMENT DATA FOR MG16				
		STATION	X COORD	Y COORD
TANGENT				
POB		7000+00.00	1127512.58	501712.42
PC		7000+56.78	1127542.44	501760.72
BEARING	N 31°-43'-31" E			
L	56.78'			
CURVE				
PC		7000+56.78	1127542.44	501760.72
PI		7000+93.75	1127561.88	501792.16
CC			1127465.89	501808.05
PCC		7001+26.93	1127553.60	501828.19
R	90.00'			
Δ	44°-39'-42" LT.			
D	63°-39'-43"			
L	70.15'			
T	36.97'			
E	7.30'			
CURVE				
PCC		7001+26.93	1127553.60	501828.19
PI		7001+29.24	1127553.09	501830.45
CC			1127524.36	501821.48
PT		7001+31.55	1127552.23	501832.59
R	30.00'			
Δ	8°-48'-41" LT.			
D	190°-59'-09"			
L	4.61'			
T	2.31'			
E	0.09'			

ALIGNMENT DATA FOR MG11								
		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
TANGENT					CURVE				
POB		2000+00.00	1128139.33	501978.44	PCC		2003+04.10	1127838.87	501931.59
PC		2002+21.63	1127920.22	501945.11	PI		2004+10.85	1127733.82	501912.64
BEARING	S 81°-21'-00" W				CC			1127909.87	501537.94
L	221.63'				PT		2005+12.73	1127652.18	501843.87
CURVE					R	400.00'			
PC		2002+21.63	1127920.22	501945.11	Δ	29°-53'-01" LT.			
PI		2002+62.87	1127879.45	501938.91	D	14°-19'-26"			
CC			1128371.42	498979.23	L	208.63'			
PCC		2003+04.10	1127838.87	501931.59	T	106.74'			
R	3000.00'				E	14.00'			
Δ	1°-34'-30" LT.								
D	1°-54'-35"								
L	82.47'								
T	41.24'								
E	0.28'								

ALIGNMENT DATA FOR MG12								
		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
CURVE					CURVE				
PC		3000+00.00	1127842.24	501912.89	PCC		3001+59.23	1127697.62	501849.80
PI		3000+81.10	1127762.41	501898.59	PI		3001+62.39	1127695.10	501847.90
CC			1127902.16	501578.21	CC			1127736.72	501797.88
PCC		3001+59.23	1127697.62	501849.80	PT		3001+65.54	1127692.78	501845.77
R	340.00'				R	65.00'			
Δ	26°-49'-59" LT.				Δ	5°-33'-31" LT.			
D	16°-51'-06"				D	88°-08'-50"			
L	159.23'				L	6.31'			
T	81.10'				T	3.16'			
E	9.54'				E	0.08'			

ALIGNMENT DATA FOR MG13				
		STATION	X COORD	Y COORD
CURVE				
PC		4000+00.00	1127717.98	501681.82
PI		4000+32.75	1127710.48	501713.70
CC			1127503.82	501631.44
PT		4000+65.02	1127694.02	501742.01
R	220.00'			
Δ	16°-55'-56" LT.			
D	26°-02'-37"			
L	65.02'			
T	32.75'			
E	2.42'			
TANGENT				
PT		4000+65.02	1127694.02	501742.01
PC		4000+91.85	1127680.53	501765.21
BEARING	N 30°-10'-16" W			
L	26.84'			
CURVE				
PC		4000+91.85	1127680.53	501765.21
PI		4001+44.14	1127654.25	501810.42
CC			1127736.72	501797.88
PT		4001+79.92	1127692.78	501845.77
R	65.00'			
Δ	77°-37'-42" RT.			
D	88°-08'-50"			
L	88.07'			
T	52.29'			
E	18.42'			

Filename: ...\HIGHWAY\MSTA\025_Grading3.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER EXIT 102\ROUTE 9

GRADING PLANS

SHEET NUMBER

25

OF 57

ALIGNMENT DATA FOR GR01

		STATION	X COORD	Y COORD
		TANGENT		
POB		8000+00.00	1127758.32	501783.42
PC		8000+52.42	1127706.13	501778.56
BEARING	S 84°-40'-53" W			
L	52.42'			
		CURVE		
PC		8000+52.42	1127706.13	501778.56
PI		8000+97.62	1127661.12	501774.37
CC			1127703.35	501808.43
PCC		8001+11.51	1127674.75	501817.47
R	30.00'			
Δ	112°-51'-42" RT.			
D	190°-59'-09"			
L	59.09'			
T	45.21'			
E	24.26'			
		CURVE		
PCC		8001+11.51	1127674.75	501817.47
PI		8001+32.30	1127681.01	501837.30
CC			1127736.72	501797.88
PCC		8001+51.75	1127697.62	501849.80
R	65.00'			
Δ	35°-28'-21" RT.			
D	88°-08'-50"			
L	40.24'			
T	20.79'			
E	3.24'			
		CURVE		
PCC		8001+51.75	1127697.62	501849.80
PI		8001+64.83	1127708.06	501857.67
CC			1127902.16	501578.21
PT		8001+77.89	1127719.08	501864.71
R	340.00'			
Δ	4°-24'-14" RT.			
D	16°-51'-06"			
L	26.13'			
T	13.07'			
E	0.25'			

ALIGNMENT DATA FOR GR02

		STATION	X COORD	Y COORD
		TANGENT		
POB		9000+00.00	1127760.55	501759.52
POE		9000+73.09	1127687.78	501752.75
BEARING	S 84°-40'-53" W			
L	73.09'			

LEGEND

STATION	TO	STATION	ALIGNMENT
100+00.00	–	101+85.18	MG01
200+00.00	–	203+50.79	MG02
300+00.00	–	303+56.26	MG03
400+00.00	–	401+16.45	MG04
500+00.00	–	503+76.50	MG05
600+00.00	–	603+43.00	MG06
700+00.00	–	703+47.02	MG07
800+00.00	–	801+26.25	MG08
900+00.00	–	902+68.51	MG09
1000+00.00	–	1004+52.62	MG10
2000+00.00	–	2004+57.28	MG11
3000+00.00	–	3001+65.54	MG12
4000+00.00	–	4001+79.92	MG13
5000+00.00	–	5001+43.76	MG14
6000+00.00	–	6001+25.43	MG15
7000+00.00	–	7001+31.55	MG16
8000+00.00	–	8001+11.51	GR01
9000+00.00	–	9000+73.09	GR02
11000+00.00	–	11001+29.55	GR03
12000+00.00	–	12000+27.12	GR04
1+00.00	–	6+02.65	GR05

ALIGNMENT DATA FOR GR03

		STATION	X COORD	Y COORD
		TANGENT		
POB		11000+00.00	1127723.94	501780.22
PC		11000+10.13	1127713.85	501779.28
BEARING	S 84°-40'-53" W			
L	10.13'			
		CURVE		
PC		11000+10.13	1127713.85	501779.28
PI		11000+57.29	1127666.90	501774.91
CC			1127711.07	501809.15
PCC		11000+70.39	1127682.84	501819.29
R	30.00'			
Δ	115°-04'-23" RT.			
D	190°-59'-09"			
L	60.25'			
T	47.16'			
E	25.89'			
		CURVE		
PCC		11000+70.39	1127682.84	501819.29
PI		11001+01.08	1127693.21	501848.18
CC			1127767.54	501788.87
PT		11001+29.55	1127719.08	501864.71
R	90.00'			
Δ	37°-39'-55" RT.			
D	63°-39'-43"			
L	59.16'			
T	30.70'			
E	5.09'			

ALIGNMENT DATA FOR GR04

		STATION	X COORD	Y COORD
		CURVE		
PC		12000+00.00	1127714.24	501775.30
PI		12000+08.17	1127706.11	501774.54
CC			1127711.07	501809.15
PCC		12000+16.03	1127698.52	501777.55
R	34.00'			
Δ	27°-01'-02" RT.			
D	168°-31'-01"			
L	16.03'			
T	8.17'			
E	0.97'			
		CURVE		
PCC		12000+16.03	1127698.52	501777.55
PI		12000+21.59	1127693.35	501779.60
CC			1127728.06	501851.90
PT		12000+27.12	1127688.52	501782.35
R	80.00'			
Δ	7°-56'-38" RT.			
D	71°-37'-11"			
L	11.09'			
T	5.55'			
E	0.19'			

ALIGNMENT DATA FOR GR05

		STATION	X COORD	Y COORD
		CURVE		
PC		1+00.00	1127541.34	501910.01
CC			1127617.39	501885.17
PT		6+02.55	1127541.31	501909.92
R	80.00'			
Δ	359°-55'-42" RT.			
D	71°-37'-11"			
L	502.55'			
T	1.00'			
E	1.00'			

ELEVATIONS FOR GR01

STATION	ELEVATION	STATION	ELEVATION
8000+00.00	213.09	8000+70.00	213.72
8000+10.00	212.78	8000+80.00	213.94
8000+20.00	212.68	8000+90.00	214.17
8000+30.00	212.82	8001+00.00	214.39
8000+40.00	213.04	8001+10.00	214.62
8000+50.00	213.27	8001+11.51	214.65
8000+60.00	213.49		

ELEVATIONS FOR GR02

STATION	ELEVATION	STATION	ELEVATION
9000+00.00	212.82	9000+50.00	212.74
9000+10.00	212.49	9000+60.00	212.83
9000+20.00	212.38	9000+70.00	212.92
9000+30.00	212.50	9000+73.09	212.95
9000+40.00	212.64		

ELEVATIONS FOR GR03

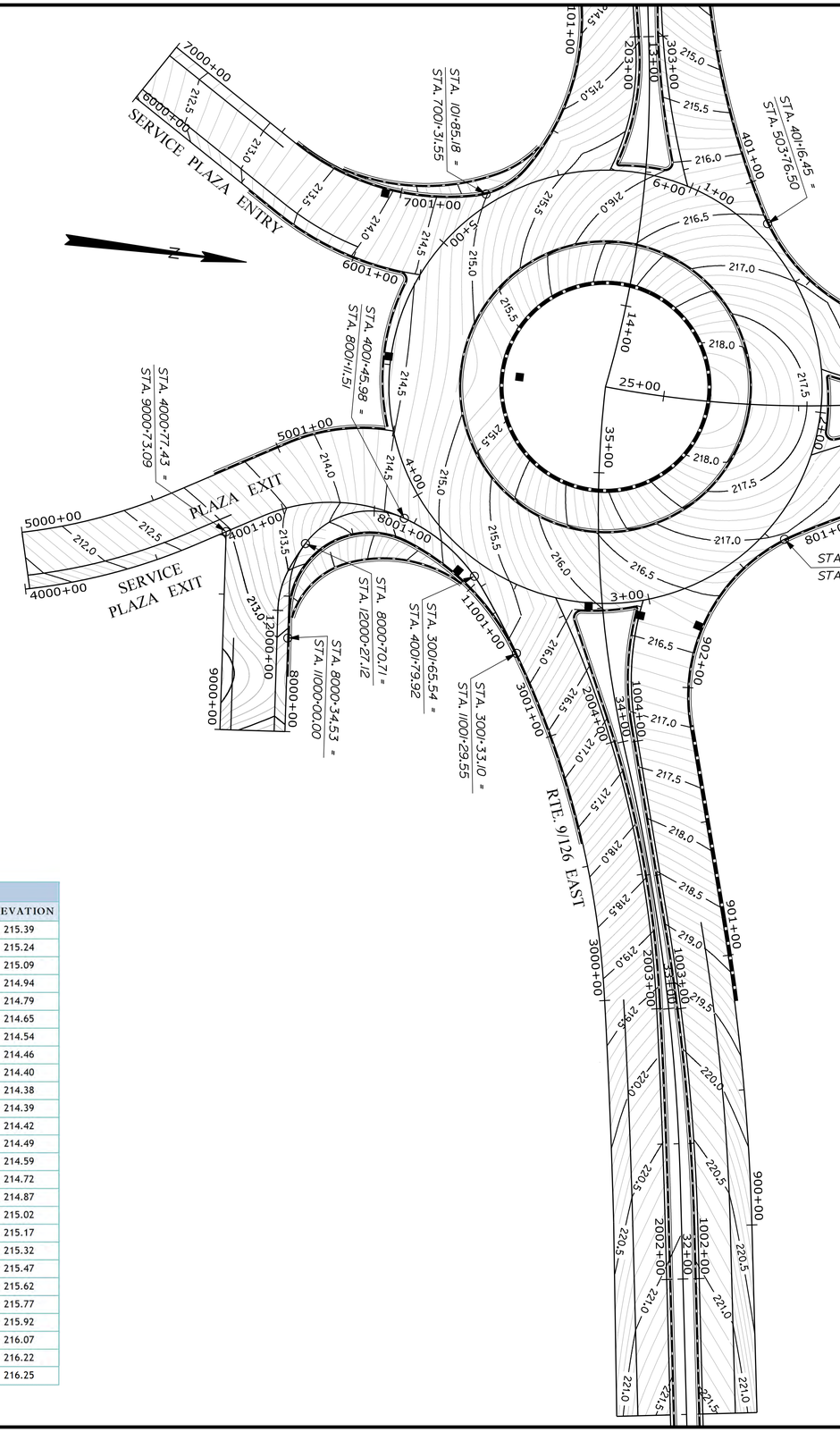
STATION	ELEVATION	STATION	ELEVATION
11000+00.00	213.03	11000+70.00	214.60
11000+10.00	213.14	11000+80.00	214.86
11000+20.00	213.34	11000+90.00	215.05
11000+30.00	213.53	11001+00.00	215.17
11000+40.00	213.75	11001+10.00	215.29
11000+50.00	214.01	11001+20.00	215.40
11000+60.00	214.31	11001+29.55	215.67

ELEVATIONS FOR GR04

STATION	ELEVATION	STATION	ELEVATION
12000+00.00	213.53	12000+20.00	213.79
12000+10.00	213.67	12000+27.12	213.91

ELEVATIONS FOR GR05

STATION	ELEVATION	STATION	ELEVATION
1+00.00	216.25	3+60.00	215.39
1+10.00	216.40	3+70.00	215.24
1+20.00	216.55	3+80.00	215.09
1+30.00	216.70	3+90.00	214.94
1+40.00	216.85	4+00.00	214.79
1+50.00	217.00	4+10.00	214.65
1+60.00	217.14	4+20.00	214.54
1+70.00	217.25	4+30.00	214.46
1+80.00	217.33	4+40.00	214.40
1+90.00	217.38	4+50.00	214.38
2+00.00	217.40	4+60.00	214.39
2+10.00	217.39	4+70.00	214.42
2+20.00	217.34	4+80.00	214.49
2+30.00	217.27	4+90.00	214.59
2+40.00	217.17	5+00.00	214.72
2+50.00	217.04	5+10.00	214.87
2+60.00	216.89	5+20.00	215.02
2+70.00	216.74	5+30.00	215.17
2+80.00	216.59	5+40.00	215.32
2+90.00	216.44	5+50.00	215.47
3+00.00	216.29	5+60.00	215.62
3+10.00	216.14	5+70.00	215.77
3+20.00	215.99	5+80.00	215.92
3+30.00	215.84	5+90.00	216.07
3+40.00	215.69	6+00.00	216.22
3+50.00	215.54	6+02.65	216.25



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER EXIT 102\ROUTE 9

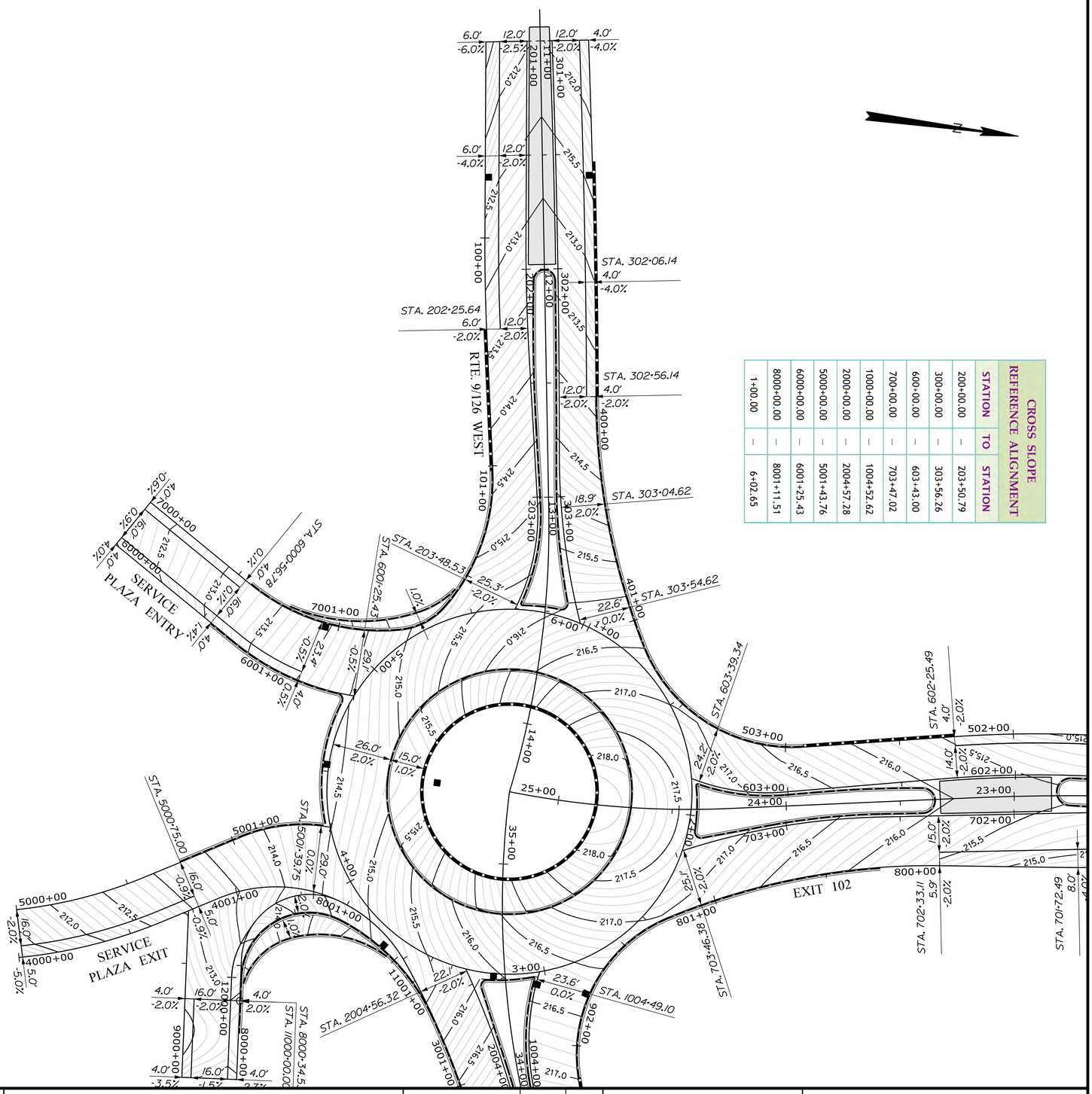
GRADING PLANS

SHEET NUMBER

26

OF 57

Filename: ...\HIGHWAY\MSTA\026_Grading4.dgn Division: HIGHWAY Username: Jonathon.French Date:12/3/2014



CROSS SLOPE REFERENCE ALIGNMENT		
STATION	TO	STATION
200+00.00	–	203+50.79
300+00.00	–	303+56.26
600+00.00	–	603+43.00
700+00.00	–	703+47.02
1000+00.00	–	1004+52.62
2000+00.00	–	2004+57.28
5000+00.00	–	5001+43.76
6000+00.00	–	6001+25.43
8000+00.00	–	8001+11.51
1+00.00	–	6+02.65

WEST GARDINER EXIT 102\ROUTE 9

GRADING PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	_____	_____	_____
DESIGN2-DETAILED2	_____	_____	_____
DESIGN3-DETAILED3	_____	_____	_____
REVISIONS 1	_____		_____
REVISIONS 2	_____		_____
REVISIONS 3	_____		_____
REVISIONS 4	_____		_____
FIELD CHANGES	_____		_____

SIGNATURE

P.E. NUMBER

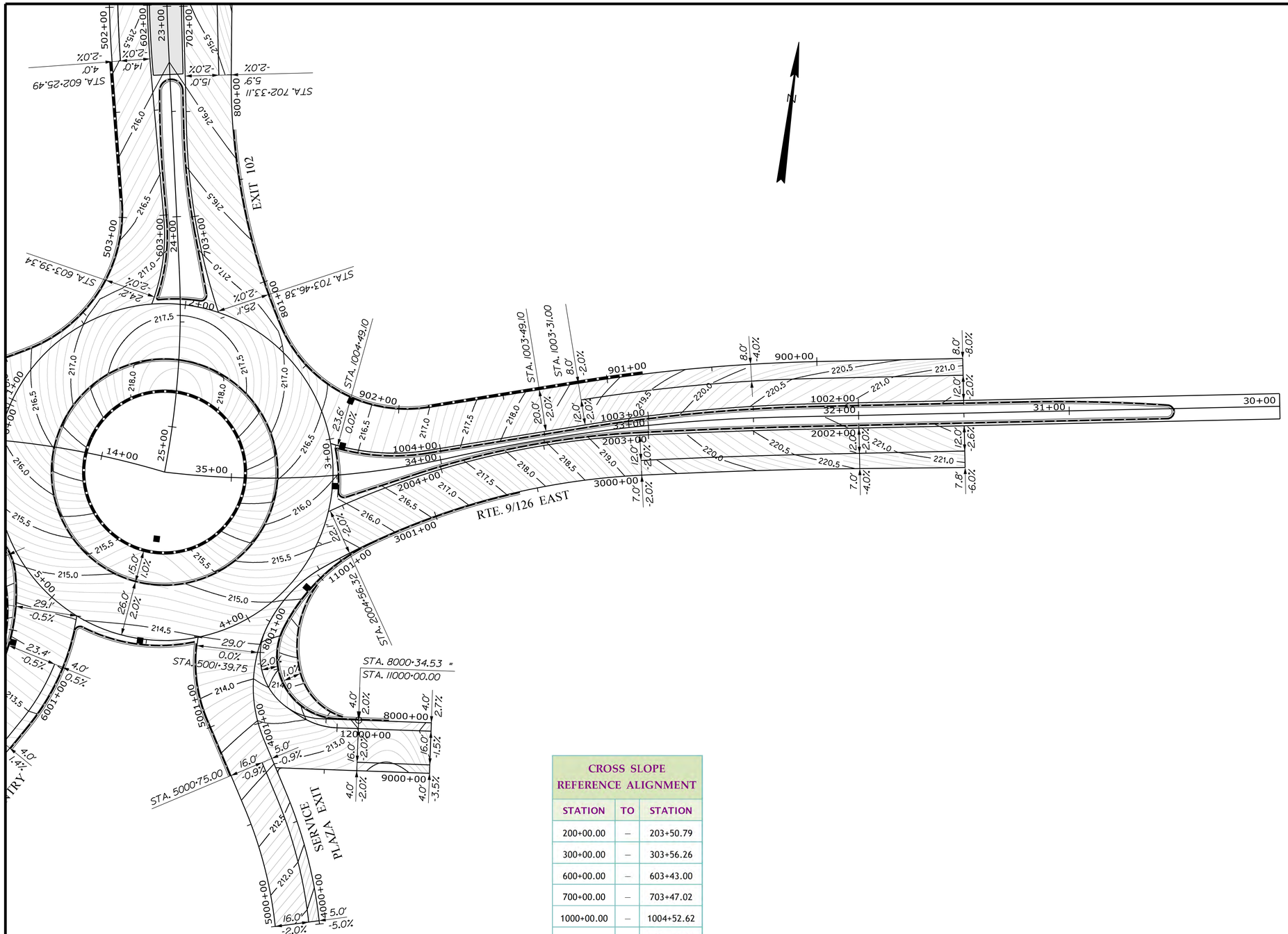
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS



CROSS SLOPE REFERENCE ALIGNMENT		
STATION	TO	STATION
200+00.00	–	203+50.79
300+00.00	–	303+56.26
600+00.00	–	603+43.00
700+00.00	–	703+47.02
1000+00.00	–	1004+52.62
2000+00.00	–	2004+57.28
5000+00.00	–	5001+43.76
6000+00.00	–	6001+25.43
8000+00.00	–	8001+11.51
1+00.00	–	6+02.65

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

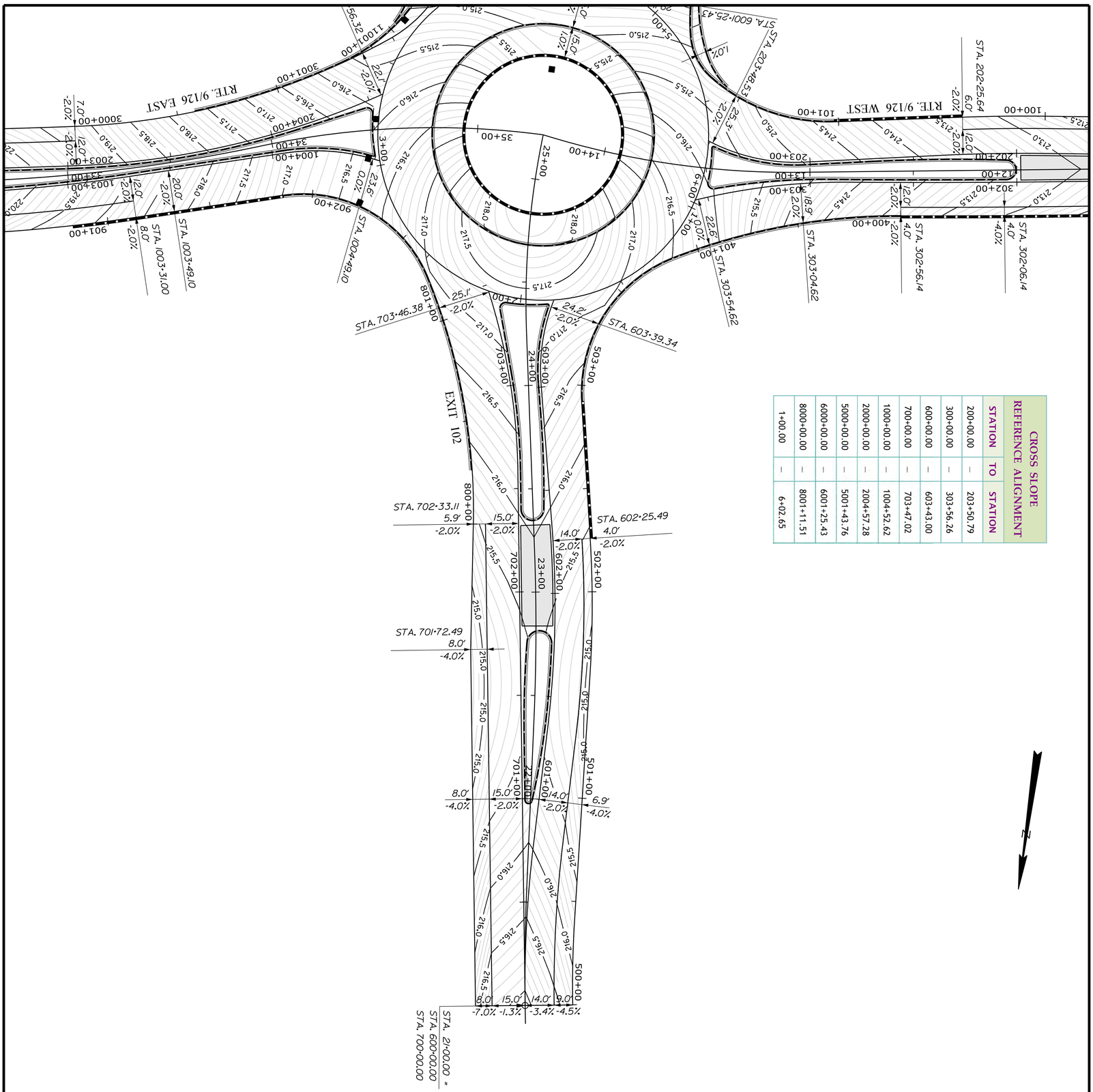
GRADING PLANS

SHEET NUMBER

28

OF 57

Filename: ...\028_Grading_supplemental2.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



CROSS SLOPE REFERENCE ALIGNMENT		
STATION	TO	STATION
200+00.00	–	203+50.79
300+00.00	–	303+56.26
600+00.00	–	603+43.00
700+00.00	–	703+47.02
1000+00.00	–	1004+52.62
2000+00.00	–	2004+57.28
5000+00.00	–	5001+43.76
6000+00.00	–	6001+25.43
8000+00.00	–	8001+11.51
1+00.00	–	6+02.65

N

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	_____	_____	_____
DESIGN2-DETAILED2	_____	_____	_____
DESIGN3-DETAILED3	_____	_____	_____
REVISIONS 1	_____		_____
REVISIONS 2	_____		_____
REVISIONS 3	_____		_____
REVISIONS 4	_____		_____
FIELD CHANGES	_____		_____

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER EXIT 102\ROUTE 9

GRADING PLANS

SHEET NUMBER 29 OF 57

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

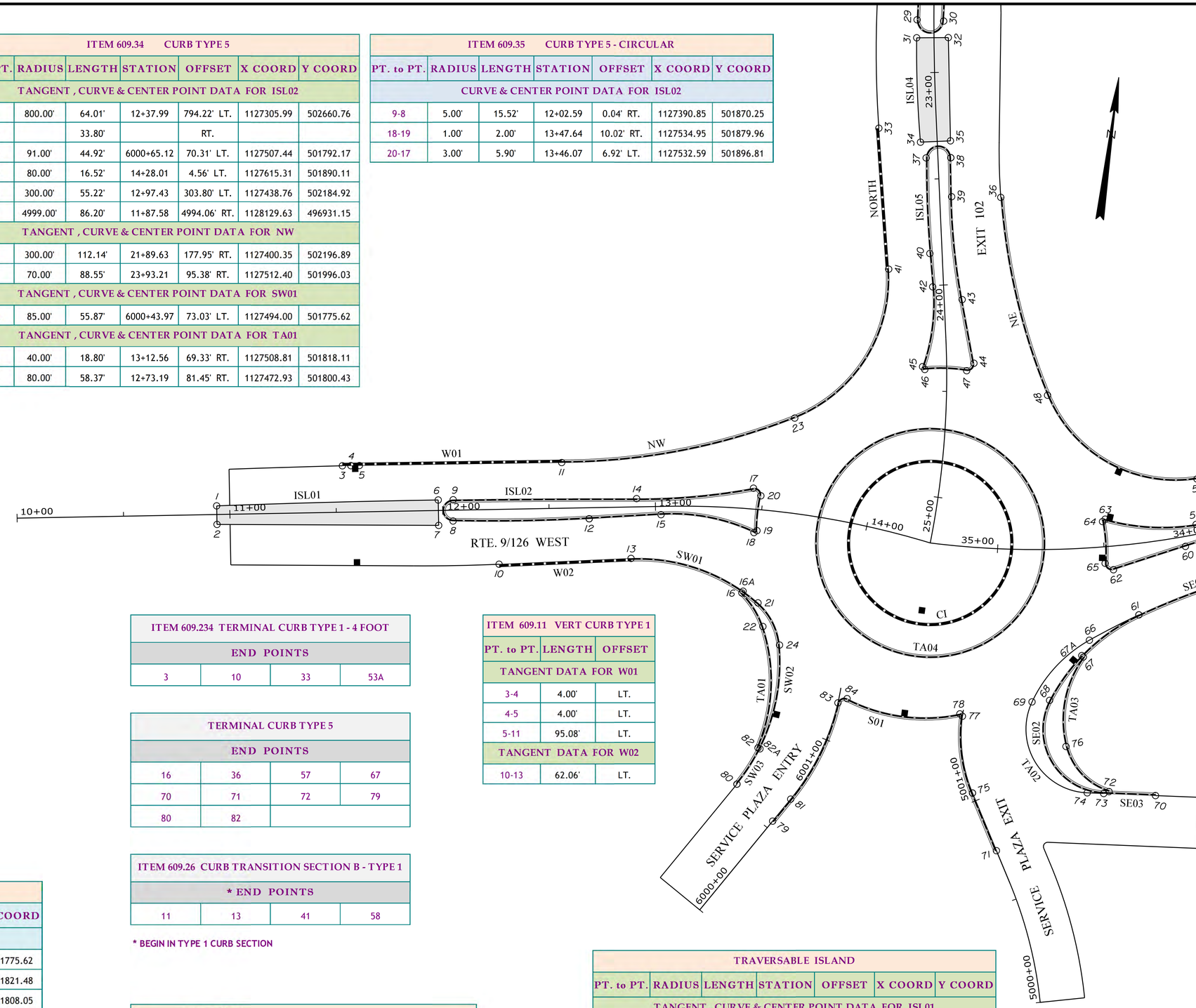
WIN 20216.00

HIGHWAY PLANS

PT.	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL01				
1	10+93.86	4.06' LT.	1127282.75	501857.89
6	11+98.00	4.92' LT.	1127385.57	501874.47
7	11+98.00	7.02' RT.	1127387.37	501862.66
2	10+93.86	4.67' RT.	1127284.07	501849.26
CONTROL POINTS FOR W01				
3	11+53.26	21.82' LT.	1127338.79	501884.41
4	11+57.26	21.80' LT.	1127342.74	501885.00
5	11+61.26	21.79' LT.	1127346.70	501885.59
11	12+56.33	21.47' LT.	1127440.74	501889.62
CONTROL POINTS FOR ISL02				
9	12+05.02	4.91' LT.	1127392.51	501875.51
14	12+91.21	3.86' LT.	1127477.87	501887.48
17	13+45.31	9.82' LT.	1127531.66	501899.67
20	13+49.00	6.54' LT.	1127535.58	501896.57
19	13+48.66	9.94' RT.	1127535.95	501880.09
18	13+47.28	10.96' RT.	1127534.65	501879.01
15	13+02.56	3.89' RT.	1127490.26	501881.53
12	12+68.78	5.19' RT.	1127457.06	501875.15
8	12+04.79	5.09' RT.	1127393.79	501865.59
CONTROL POINTS FOR W02				
10	12+26.05	25.78' RT.	1127417.93	501848.35
13	12+88.09	24.18' RT.	1127479.02	501859.29
CONTROL POINTS FOR NW				
11	12+56.33	21.47' LT.	1127440.74	501889.62
23	13+60.29	44.54' LT.	1127546.50	501934.90
41	23+91.41	25.40' RT.	1127580.96	502010.14
CONTROL POINTS FOR SW01				
13	12+88.09	24.18' RT.	1127479.02	501859.29
16A	13+44.29	38.85' RT.	1127533.26	501851.01
CONTROL POINTS FOR SW02				
16A	13+44.29	38.85' RT.	1127533.26	501851.01
21	13+52.60	43.70' RT.	1127540.93	501846.49
24	13+66.88	62.20' RT.	1127553.60	501828.19
82A	6000+79.28	25.69' RT.	1127550.94	501778.63
CONTROL POINTS FOR TA01				
16	13+43.72	39.71' RT.	1127532.80	501850.12
22	13+56.55	54.51' RT.	1127544.69	501835.79
82	6000+79.13	26.69' LT.	1127550.00	501778.95

ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL02						
8-12	800.00'	64.01'	12+37.99	794.22' LT.	1127305.99	502660.76
12-15		33.80'		RT.		
15-18	91.00'	44.92'	6000+65.12	70.31' LT.	1127507.44	501792.17
19-20	80.00'	16.52'	14+28.01	4.56' LT.	1127615.31	501890.11
17-14	300.00'	55.22'	12+97.43	303.80' LT.	1127438.76	502184.92
14-9	4999.00'	86.20'	11+87.58	4994.06' RT.	1128129.63	496931.15
TANGENT , CURVE & CENTER POINT DATA FOR NW						
11-23	300.00'	112.14'	21+89.63	177.95' RT.	1127400.35	502196.89
23-41	70.00'	88.55'	23+93.21	95.38' RT.	1127512.40	501996.03
TANGENT , CURVE & CENTER POINT DATA FOR SW01						
13-16A	85.00'	55.87'	6000+43.97	73.03' LT.	1127494.00	501775.62
TANGENT , CURVE & CENTER POINT DATA FOR TA01						
16-22	40.00'	18.80'	13+12.56	69.33' RT.	1127508.81	501818.11
22-82	80.00'	58.37'	12+73.19	81.45' RT.	1127472.93	501800.43

ITEM 609.35 CURB TYPE 5 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ISL02						
9-8	5.00'	15.52'	12+02.59	0.04' RT.	1127390.85	501870.25
18-19	1.00'	2.00'	13+47.64	10.02' RT.	1127534.95	501879.96
20-17	3.00'	5.90'	13+46.07	6.92' LT.	1127532.59	501896.81



ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT			
END POINTS			
3	10	33	53A

TERMINAL CURB TYPE 5			
END POINTS			
16	36	57	67
70	71	72	79
80	82		

ITEM 609.26 CURB TRANSITION SECTION B - TYPE 1			
* END POINTS			
11	13	41	58

* BEGIN IN TYPE 1 CURB SECTION

ITEM 609.11 VERT CURB TYPE 1		
PT. to PT.	LENGTH	OFFSET
TANGENT DATA FOR W01		
3-4	4.00'	LT.
4-5	4.00'	LT.
5-11	95.08'	LT.
TANGENT DATA FOR W02		
10-13	62.06'	LT.

ITEM 609.341 CURB TYPE 5 - TRUCK APRON						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR SW02						
16A-21	85.00'	8.09'	6000+43.97	73.03' LT.	1127494.00	501775.62
21-24	30.00'	22.81'	13+31.66	67.69' RT.	1127524.36	501821.48
24-82A	90.00'	50.29'	12+67.38	72.86' RT.	1127465.89	501808.05
TANGENT , CURVE & CENTER POINT DATA FOR W02						
10-13		62.06'		LT.		
TANGENT , CURVE & CENTER POINT DATA FOR TA04						
	54.00'	339.29'	14+30.82	0.00'	1127617.39	501855.17

ITEM 609.12 VERT CURB TYPE 1 - CIRCULAR					
RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR CI					
39.00'	245.04'	14+30.82	0.00'	1127617.39	501855.17

TRAVERSABLE ISLAND						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL01						
1-2		8.73'				
2-7		104.17'		RT.		
7-6		11.95'				
6-1	4999.00'	104.14'	11+87.58	4994.06' RT.	1128129.63	496931.15

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	J. FRENCH	
CHECKED-REVIEWED	BT TRAN	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

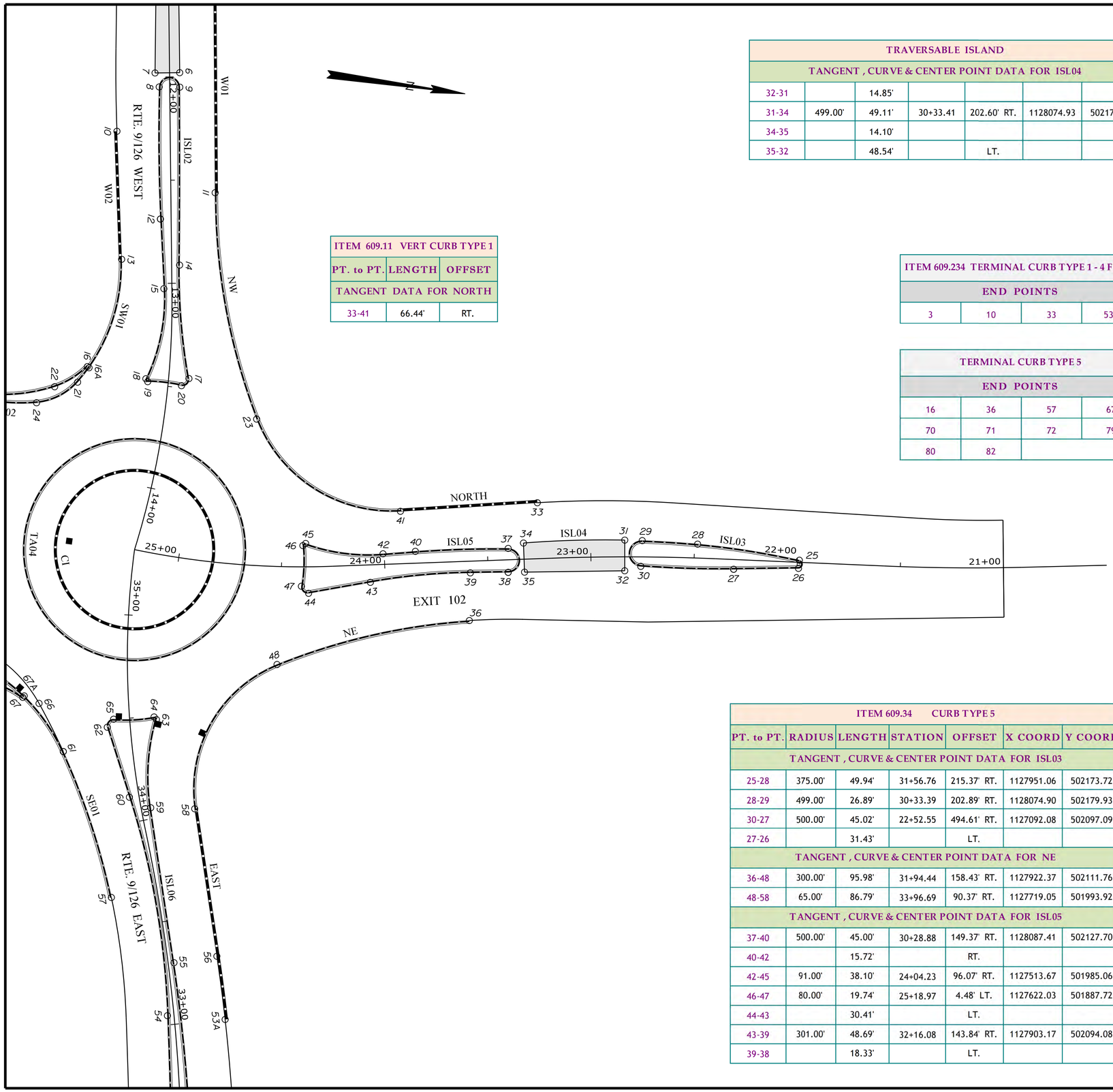
DATE

WEST GARDINER
EXIT 102\ROUTE 9

GEOMETRIC PLANS

SHEET NUMBER
30
OF 57

Filename: ...\HIGHWAY\MSTA\030_Geometry1.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



TRAVERSABLE ISLAND						
TANGENT , CURVE & CENTER POINT DATA FOR ISL04						
32-31		14.85'				
31-34	499.00'	49.11'	30+33.41	202.60' RT.	1128074.93	502179.64
34-35		14.10'				
35-32		48.54'		LT.		

ITEM 609.11 VERT CURB TYPE 1		
PT. to PT.	LENGTH	OFFSET
TANGENT DATA FOR NORTH		
33-41	66.44'	RT.

ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT			
END POINTS			
3	10	33	53A

TERMINAL CURB TYPE 5			
END POINTS			
16	36	57	67
70	71	72	79
80	82		

PT.	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL03				
25	21+99.01	1.03' RT.	1127577.35	502204.82
28	22+48.54	6.75' RT.	1127576.53	502154.92
29	22+75.20	7.90' RT.	1127578.60	502128.11
30	22+75.82	4.58' LT.	1127591.05	502129.16
27	22+30.64	4.71' LT.	1127586.15	502173.90
26	21+99.26	2.94' LT.	1127581.32	502204.96
CONTROL POINTS FOR ISL04				
31	22+83.60	8.12' RT.	1127579.54	502119.69
34	23+32.41	7.85' RT.	1127587.83	502071.31
35	23+32.41	6.25' LT.	1127601.71	502073.80
32	22+83.63	6.73' LT.	1127594.25	502121.76
CONTROL POINTS FOR NORTH				
33	23+24.99	27.11' RT.	1127567.57	502075.22
41	23+91.41	25.40' RT.	1127580.96	502010.14
CONTROL POINTS FOR NE				
36	23+60.00	28.70' LT.	1127628.67	502050.60
48	24+50.87	47.47' LT.	1127662.81	501961.33
58	34+00.64	25.45' RT.	1127737.62	501931.63
CONTROL POINTS FOR ISL05				
37	23+39.92	5.53' RT.	1127591.44	502064.33
40	23+84.90	5.76' RT.	1127599.15	502020.01
42	24+00.61	5.14' RT.	1127602.53	502004.66
45	24+38.25	11.31' RT.	1127602.82	501966.84
46	24+39.63	10.29' RT.	1127604.03	501965.67
47	24+40.35	9.39' LT.	1127623.61	501967.70
44	24+36.97	12.83' LT.	1127626.53	501971.63
43	24+07.23	8.45' LT.	1127617.07	502000.54
39	23+58.67	5.64' LT.	1127605.74	502047.84
38	23+40.34	6.06' LT.	1127602.93	502065.96

ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL03						
25-28	375.00'	49.94'	31+56.76	215.37' RT.	1127951.06	502173.72
28-29	499.00'	26.89'	30+33.39	202.89' RT.	1128074.90	502179.93
30-27	500.00'	45.02'	22+52.55	494.61' RT.	1127092.08	502097.09
27-26		31.43'		LT.		
TANGENT , CURVE & CENTER POINT DATA FOR NE						
36-48	300.00'	95.98'	31+94.44	158.43' RT.	1127922.37	502111.76
48-58	65.00'	86.79'	33+96.69	90.37' RT.	1127719.05	501993.92
TANGENT , CURVE & CENTER POINT DATA FOR ISL05						
37-40	500.00'	45.00'	30+28.88	149.37' RT.	1128087.41	502127.70
40-42		15.72'		RT.		
42-45	91.00'	38.10'	24+04.23	96.07' RT.	1127513.67	501985.06
46-47	80.00'	19.74'	25+18.97	4.48' LT.	1127622.03	501887.72
44-43		30.41'		LT.		
43-39	301.00'	48.69'	32+16.08	143.84' RT.	1127903.17	502094.08
39-38		18.33'		LT.		

ITEM 609.35 CURB TYPE 5 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ISL03						
26-25	2.00'	5.81'	21+98.87	0.97' LT.	1127579.32	502205.15
29-30	6.25'	19.39'	22+78.59	1.82' RT.	1127585.08	502125.56
CURVE & CENTER POINT DATA FOR ISL05						
38-37	5.80'	18.06'	23+40.21	0.26' LT.	1127597.20	502065.06
45-46	1.00'	2.00'	24+38.60	10.37' RT.	1127603.80	501966.64
47-44	3.00'	5.72'	24+37.46	9.87' LT.	1127623.67	501970.70

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

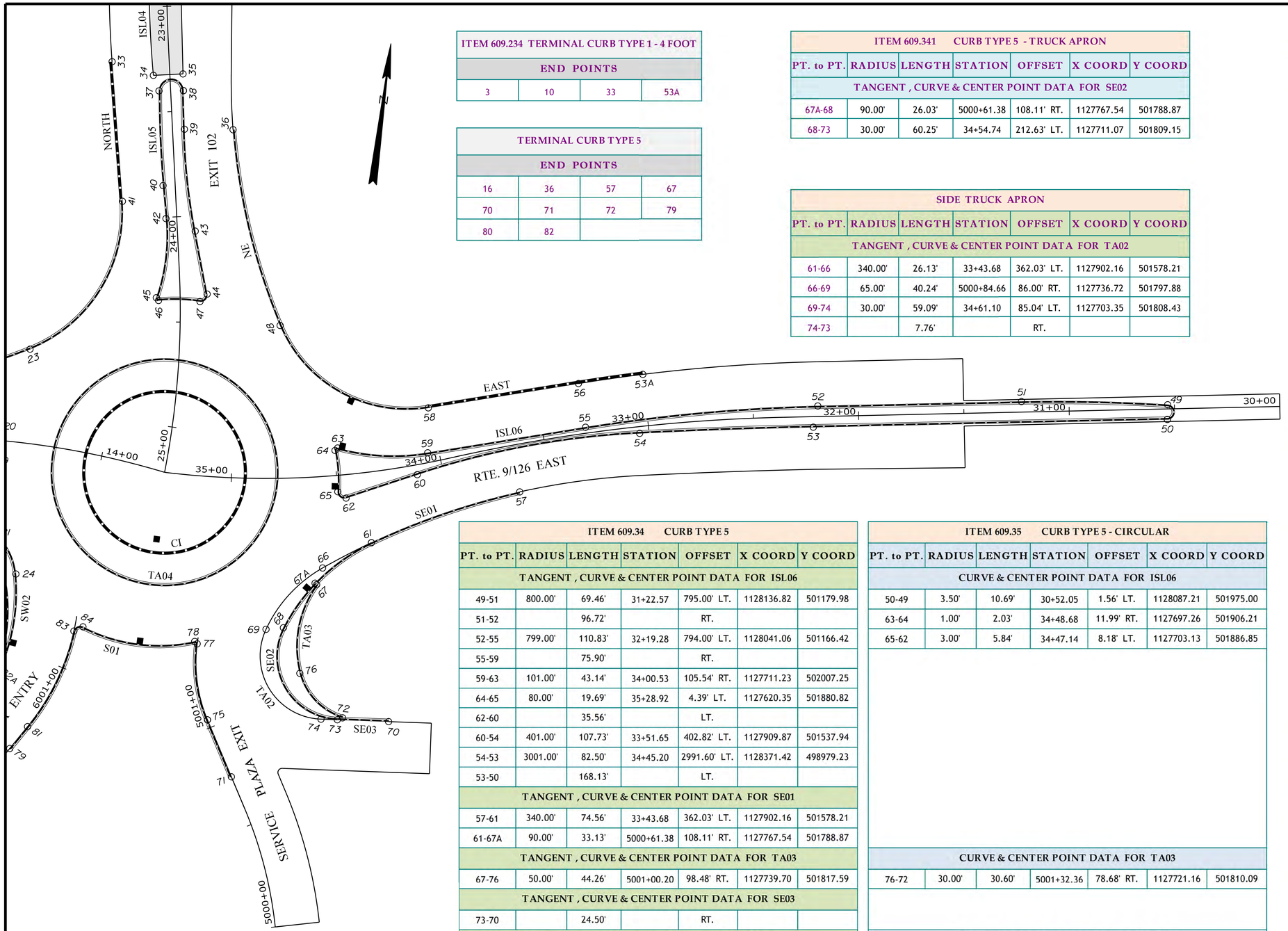
GEOMETRIC PLANS

SHEET NUMBER

31

OF 57

Filename: ...\HIGHWAY\MSTA\031_Geometry2.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT			
END POINTS			
3	10	33	53A

TERMINAL CURB TYPE 5			
END POINTS			
16	36	57	67
70	71	72	79
80	82		

ITEM 609.341 CURB TYPE 5 - TRUCK APRON						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR SE02						
67A-68	90.00'	26.03'	5000+61.38	108.11' RT.	1127767.54	501788.87
68-73	30.00'	60.25'	34+54.74	212.63' LT.	1127711.07	501809.15

SIDE TRUCK APRON						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR TA02						
61-66	340.00'	26.13'	33+43.68	362.03' LT.	1127902.16	501578.21
66-69	65.00'	40.24'	5000+84.66	86.00' RT.	1127736.72	501797.88
69-74	30.00'	59.09'	34+61.10	85.04' LT.	1127703.35	501808.43
74-73		7.76'		RT.		

ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL06						
49-51	800.00'	69.46'	31+22.57	795.00' LT.	1128136.82	501179.98
51-52		96.72'		RT.		
52-55	799.00'	110.83'	32+19.28	794.00' LT.	1128041.06	501166.42
55-59		75.90'		RT.		
59-63	101.00'	43.14'	34+00.53	105.54' RT.	1127711.23	502007.25
64-65	80.00'	19.69'	35+28.92	4.39' LT.	1127620.35	501880.82
62-60		35.56'		LT.		
60-54	401.00'	107.73'	33+51.65	402.82' LT.	1127909.87	501537.94
54-53	3001.00'	82.50'	34+45.20	2991.60' LT.	1128371.42	498979.23
53-50		168.13'		LT.		
TANGENT , CURVE & CENTER POINT DATA FOR SE01						
57-61	340.00'	74.56'	33+43.68	362.03' LT.	1127902.16	501578.21
61-67A	90.00'	33.13'	5000+61.38	108.11' RT.	1127767.54	501788.87
TANGENT , CURVE & CENTER POINT DATA FOR TA03						
67-76	50.00'	44.26'	5001+00.20	98.48' RT.	1127739.70	501817.59
TANGENT , CURVE & CENTER POINT DATA FOR SE03						
73-70		24.50'		RT.		
TANGENT , CURVE & CENTER POINT DATA FOR S01						
79-81		13.38'				
81-83	110.00'	50.85'	12+77.30	67.37' RT.	1127474.87	501814.96
84-78	80.00'	54.53'	14+29.07	2.66' RT.	1127615.24	501882.82
77-75	70.00'	36.83'	5001+33.23	70.00' RT.	1127713.22	501806.48
75-71		29.33'				
TANGENT , CURVE & CENTER POINT DATA FOR SW03						
82A-80	90.00'	19.86'	12+67.38	72.86' RT.	1127465.89	501808.05

ITEM 609.35 CURB TYPE 5 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ISL06						
50-49	3.50'	10.69'	30+52.05	1.56' LT.	1128087.21	501975.00
63-64	1.00'	2.03'	34+48.68	11.99' RT.	1127697.26	501906.21
65-62	3.00'	5.84'	34+47.14	8.18' LT.	1127703.13	501886.85
CURVE & CENTER POINT DATA FOR TA03						
76-72	30.00'	30.60'	5001+32.36	78.68' RT.	1127721.16	501810.09
CURVE & CENTER POINT DATA FOR S01						
83-84	3.00'	5.46'	6001+18.22	3.00' RT.	1127587.40	501804.63
78-77	1.00'	1.91'	5001+70.06	-1.00' LT.	1127642.22	501806.44

ITEM 609.11 VERT CURB TYPE 1						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR EAST						
53A-56	820.00'	30.86'	34+17.99	865.41' LT.	1127979.73	501073.78
56-58		72.22' RT.				

PT.	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL06				
49	30+53.20	1.99' RT.	1128085.54	501978.34
51	31+22.57	5.00' RT.	1128016.50	501970.88
52	32+19.28	5.00' RT.	1127920.89	501956.34
55	33+29.64	2.85' RT.	1127812.83	501932.14
59	34+05.36	4.62' RT.	1127740.08	501910.45
63	34+48.32	12.93' RT.	1127697.40	501907.20
64	34+49.70	11.89' RT.	1127696.31	501905.89
65	34+50.06	7.75' LT.	1127700.13	501886.63
62	34+46.49	11.10' LT.	1127704.42	501884.14
60	34+12.18	4.65' LT.	1127736.49	501899.52
54	33+04.48	3.20' LT.	1127838.69	501932.57
53	32+21.63	5.00' LT.	1127920.07	501946.10
50	30+53.50	5.00' LT.	1128086.29	501971.38
CONTROL POINTS FOR EAST				
53A	33+00.12	24.48' RT.	1127836.56	501960.52
56	33+30.07	23.84' RT.	1127806.83	501952.26
58	34+00.64	25.45' RT.	1127737.62	501931.63
CONTROL POINTS FOR SE01				
57	33+65.87	22.42' LT.	1127785.79	501897.67
61	34+37.24	33.41' LT.	1127719.08	501864.71
67A	34+62.83	50.34' RT.	1127695.03	501842.18
CONTROL POINTS FOR TA02				
61	34+37.24	33.41' LT.	1127719.08	501864.71
66	34+59.30	43.33' LT.	1127697.62	501849.80
69	34+83.54	71.62' LT.	1127674.75	501817.47
74	5000+83.33	49.84' RT.	1127706.13	501778.56
73	5000+80.07	56.88' RT.	1127713.85	501779.28
CONTROL POINTS FOR TA03				
67	34+62.23	51.07' LT.	1127695.84	501841.59
76	5001+15.05	48.72' RT.	1127693.35	501798.83
72	5000+79.95	59.52' RT.	1127716.20	501780.50
CONTROL POINTS FOR SE02				
67A	34+62.83	50.34' RT.	1127695.03	501842.18
68	34+76.53	70.94' LT.	1127682.84	501819.29
73	5000+80.07	56.88' RT.	1127713.85	501779.28
CONTROL POINTS FOR SE03				
73	5000+80.07	56.88' RT.	1127713.85	501779.28
70	5000+69.77	79.11' RT.	1127738.24	501781.55
CONTROL POINTS FOR S01				
71	5000+74.57	0.00'	1127667.44	501745.94
75	5001+03.90	0.00'	1127652.70	501771.30
77	5001+40.73	0.00'	1127643.22	501806.44
78	5001+41.66	1.34' LT.	1127641.89	501807.39
84	6001+21.03	3.78' RT.	1127588.40	501807.45
83	6001+18.22	0.00' RT.	1127584.41	501804.90
81	6000+67.37	0.00'	1127568.42	501757.10
79	6000+53.99	0.00'	1127561.39	501745.73
CONTROL POINTS FOR SW03				
82A	6000+79.28	25.69' RT.	1127550.94	501778.63
80	6000+56.78	24.00' LT.	1127542.44	501760.72

STATE OF MAINE
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STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	J. FRENCH	
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

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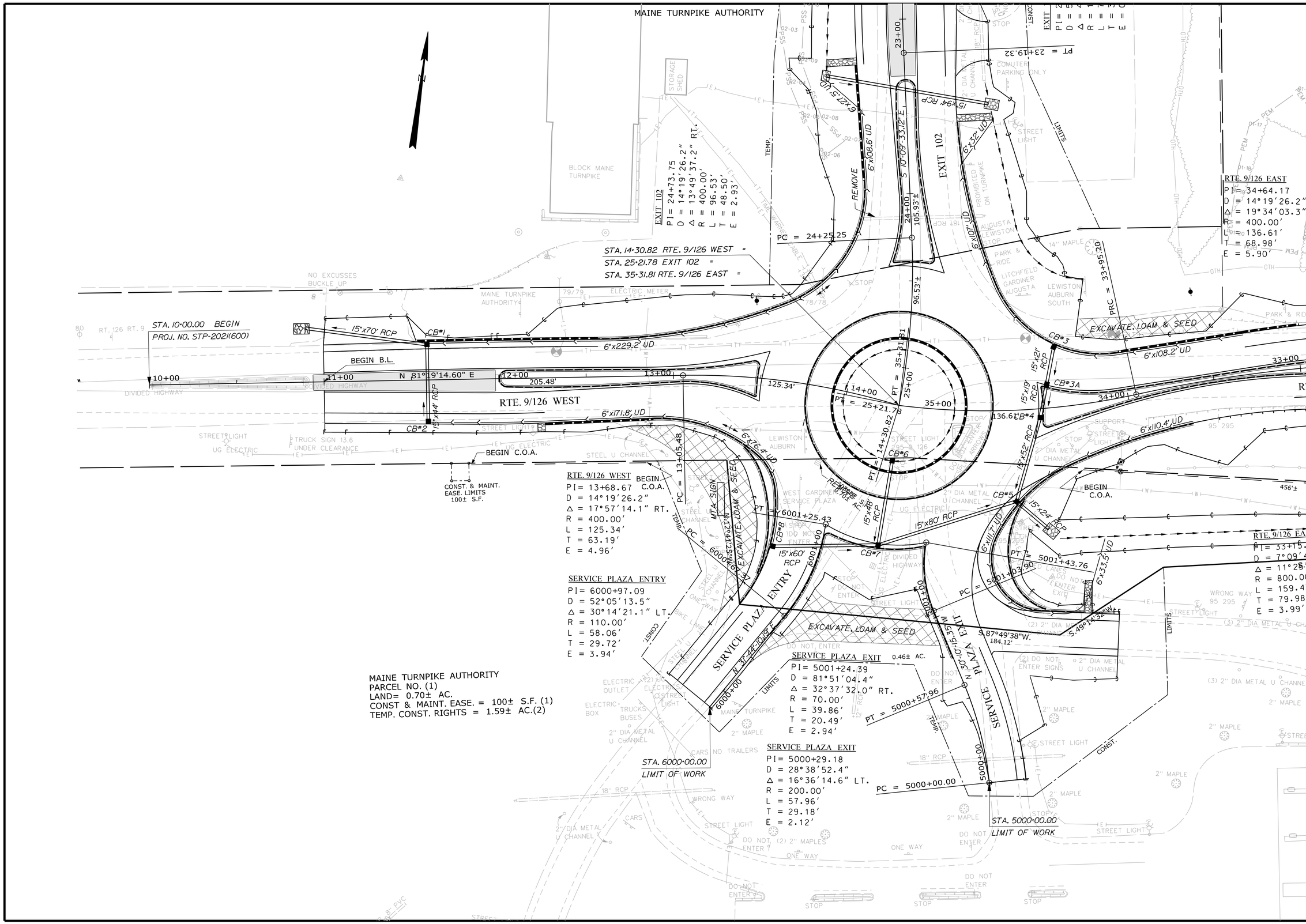
WEST GARDINER
EXIT 102\ROUTE 9

GEOMETRIC PLANS

SHEET NUMBER
32
OF 57

Filename: ...\HIGHWAY\MSTA\032_Geometry3.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS: 1			
REVISIONS: 2			
REVISIONS: 3			
REVISIONS: 4			
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WEST GARDINER
EXIT 102\ROUTE 9

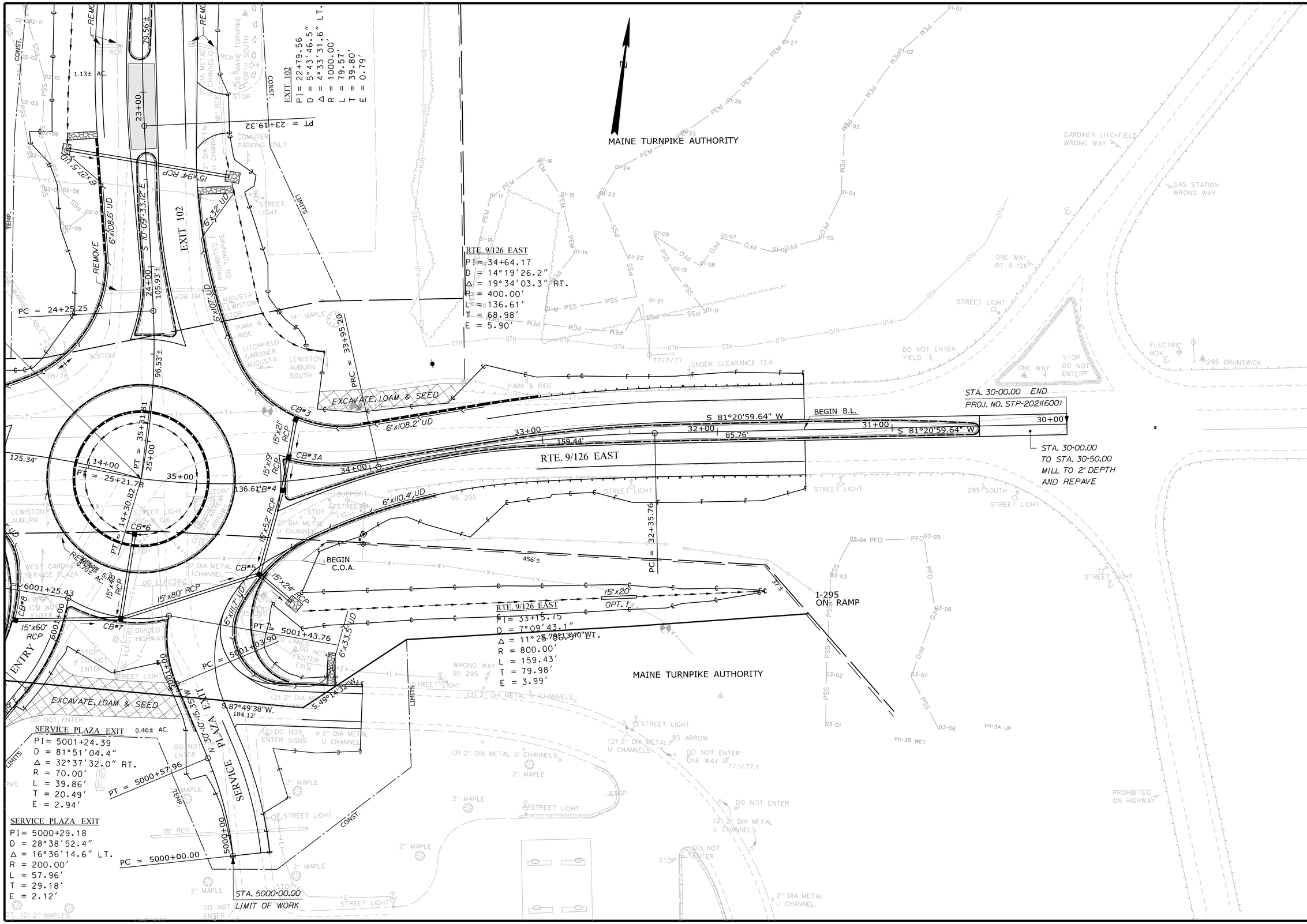
PLANS

SHEET NUMBER

33

OF 57

Filename: ...\HIGHWAY\MSTA\033_HDPlan1.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

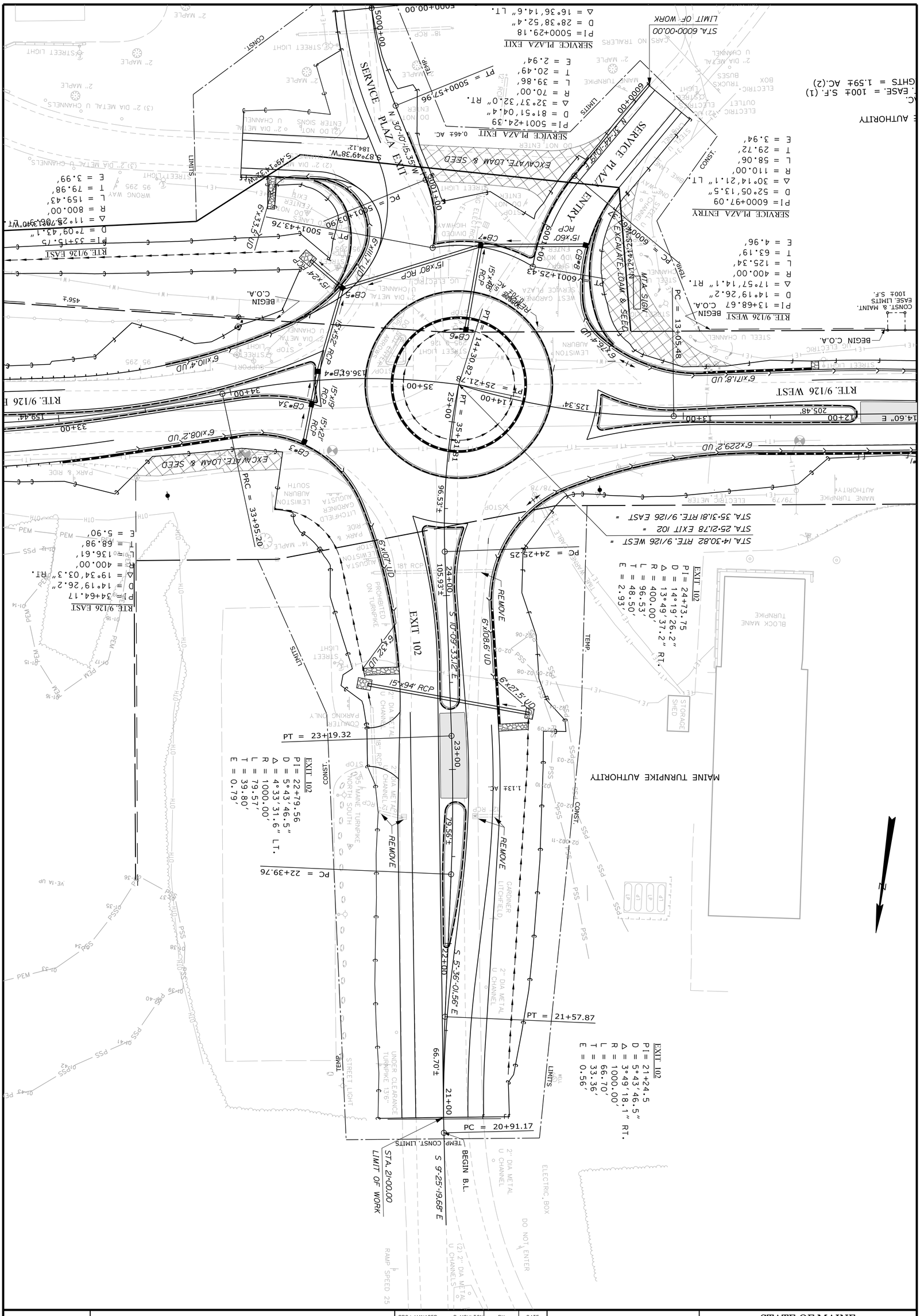
PLANS

SHEET NUMBER

34

OF 57

Filename: ...\HIGHWAY\MSTA\034_HDPlan2.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER EXIT 102\ROUTE 9

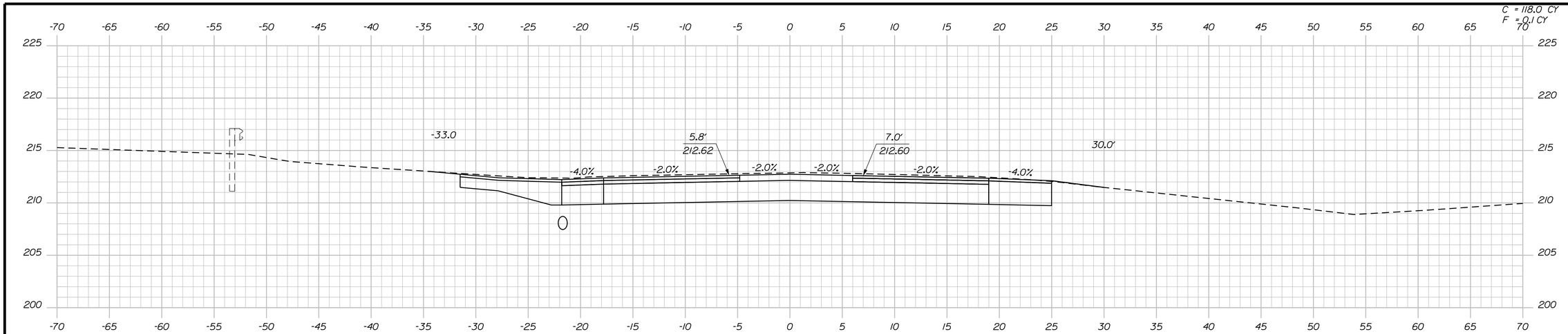
PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

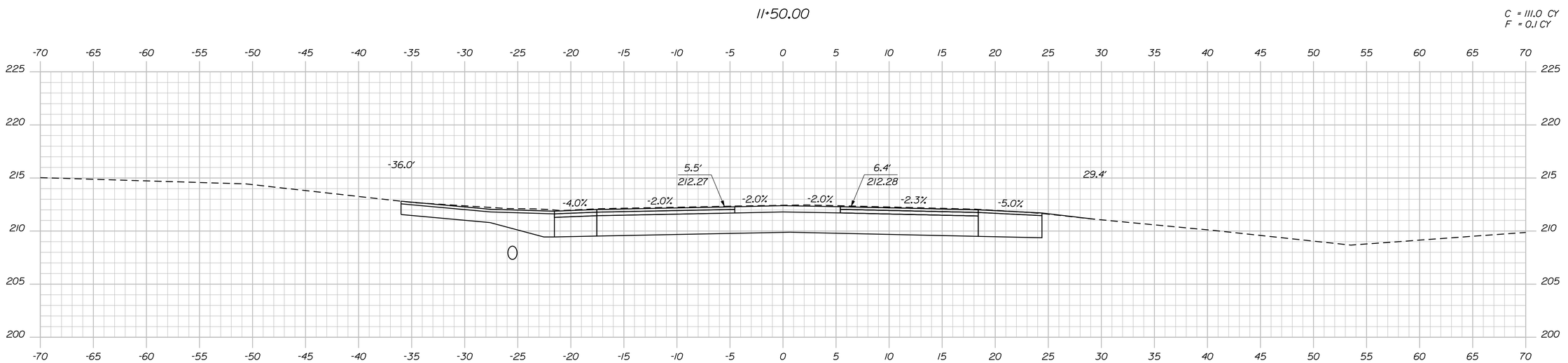
STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

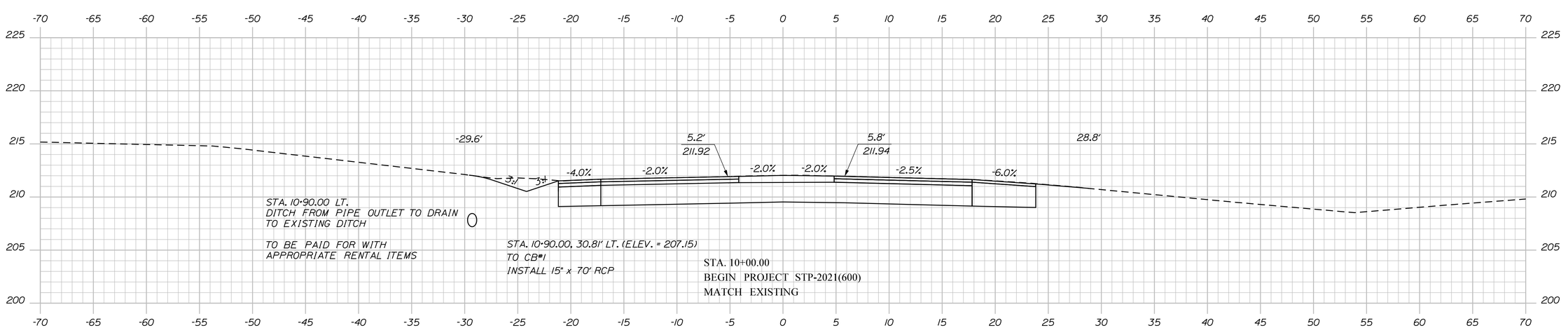


11+50.00



STA. 11+25.00 LT.
CONSTRUCT PAVED ENT.

11+25.00



11+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE	
DESIGN-DETAILED	J. FRENCH	BT TRAN		SIGNATURE
CHECKED-REVIEWED				
DESIGN2-DETAILED2				P.E. NUMBER
DESIGN3-DETAILED3				
REVISIONS 1				
REVISIONS 2				DATE
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

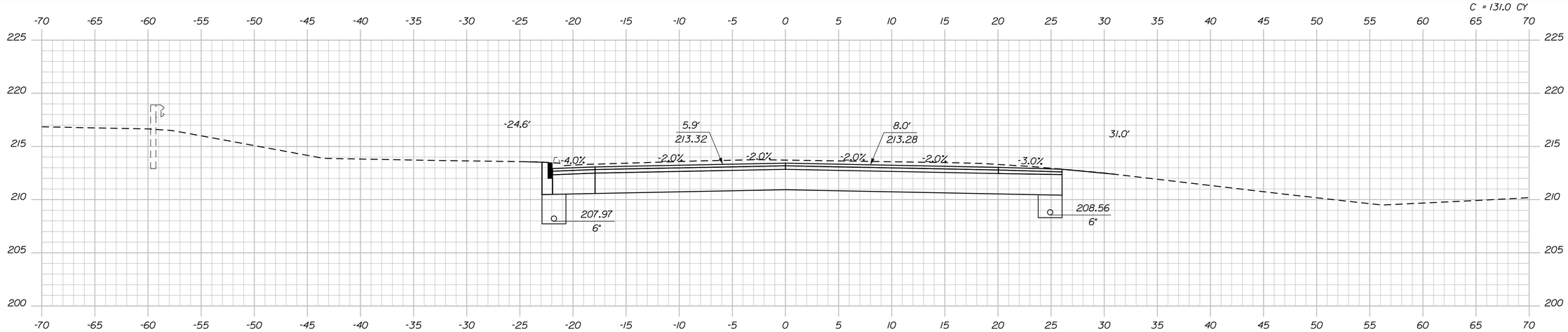
WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

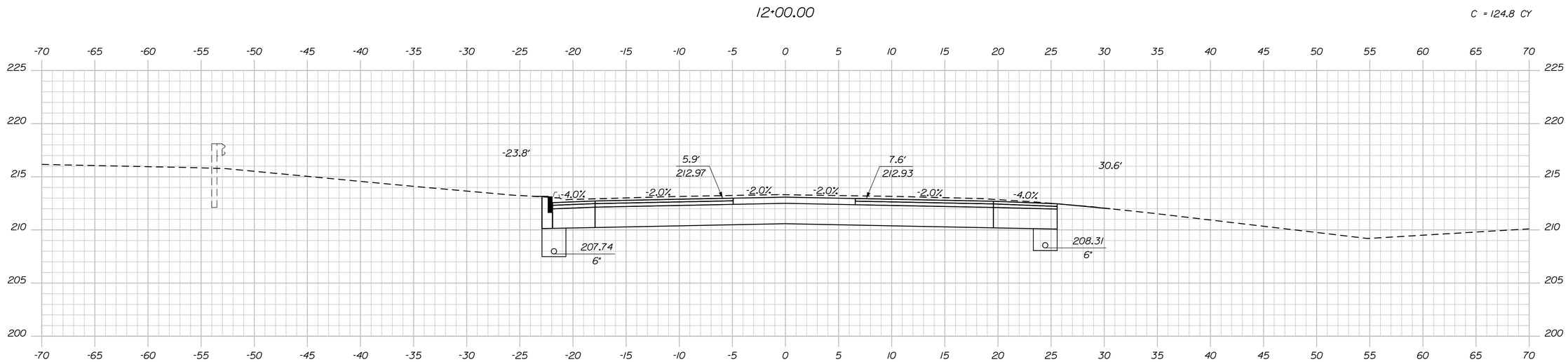
SHEET NUMBER
36
OF 57

Filename: ...\MSTA\036_XSECT_11+00_001.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

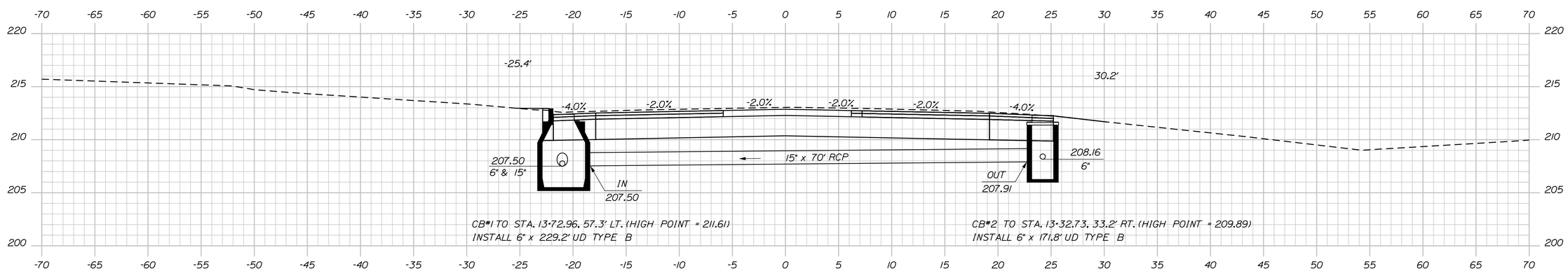
Sta. 11+00.00 to Sta. 11+50.00



12+00.00



11+75.00



(CB#1) STA. 11+59.47, 20.9' LT.
CONSTRUCT CB TYPE AI-C
GRATE ELV. = 212.39

11+59.47

CB#1 LT. TO CB#2 RT.
INSTALL 15" x 44' RCP

(CB#2) STA. 11+59.47, 24.2' RT.
CONSTRUCT CB TYPE F6-C
GRATE ELV. = 212.28

STATE OF MAINE
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20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	------
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

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DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

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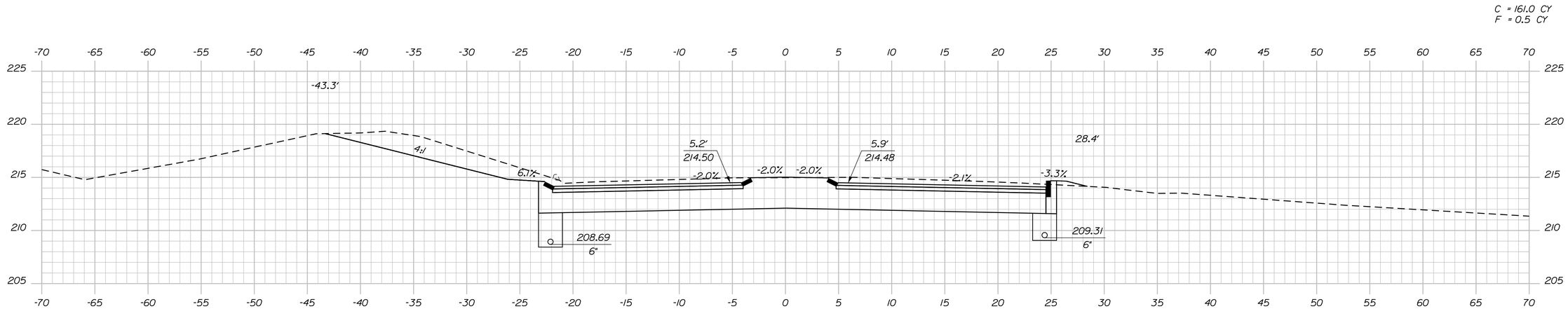
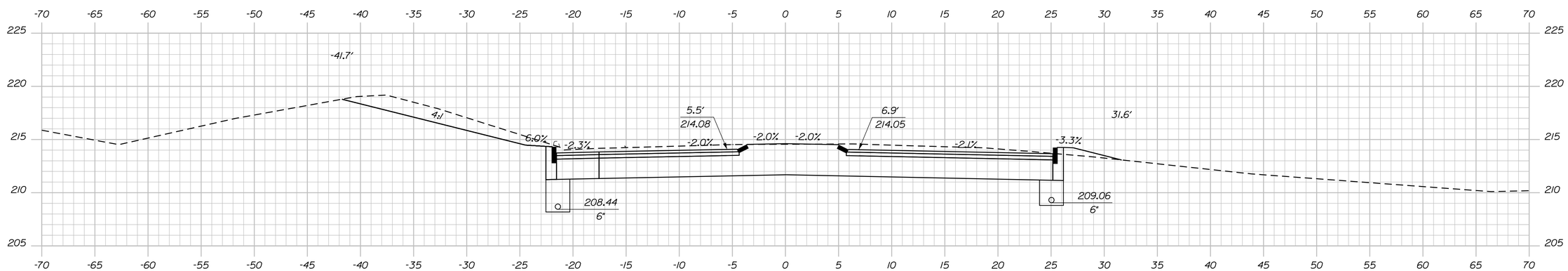
37
OF 57

Sta. 11+59.47 to Sta. 12+00.00

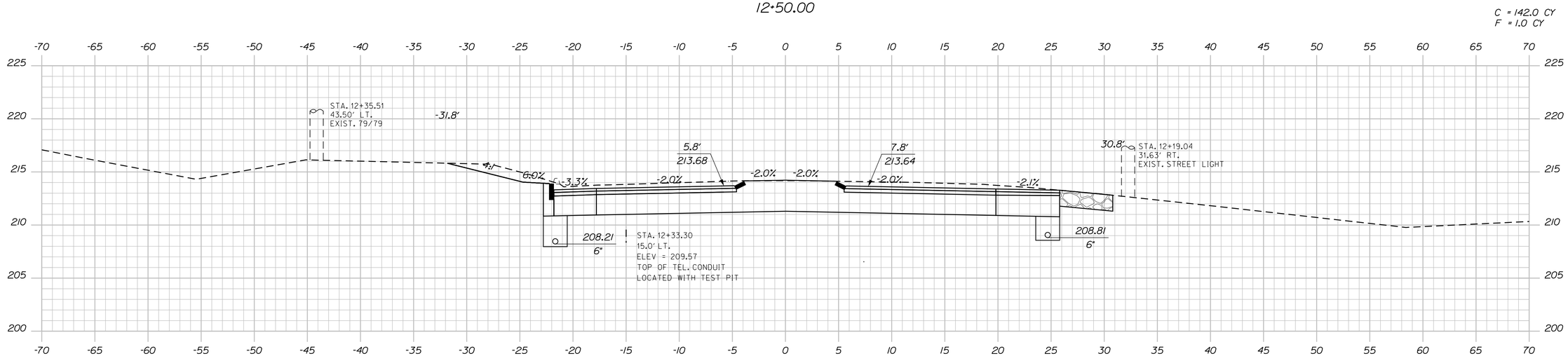
Filename: ...\MSTA\037_XSECT_11+59_002.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



12+75.00



12+50.00



12+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

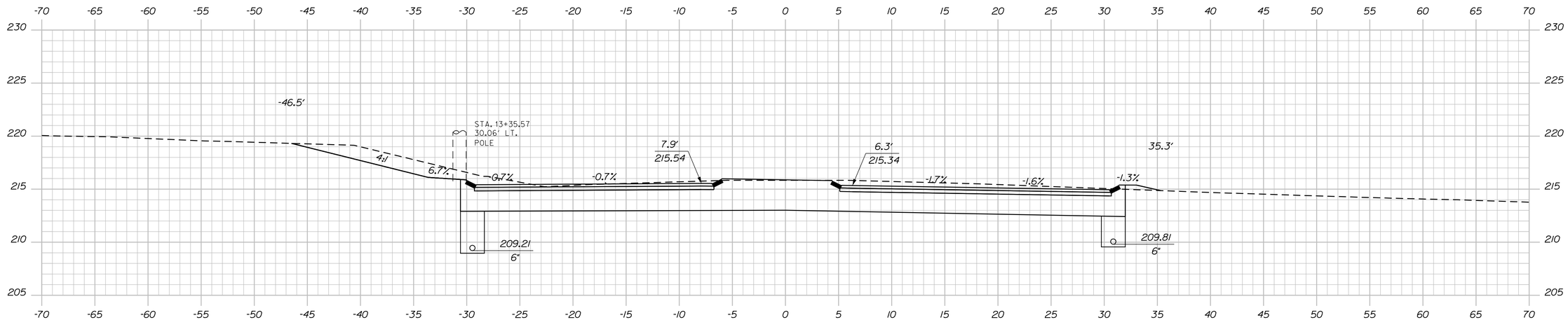
SHEET NUMBER

38

OF 57

Sta. 12+25.00 to Sta. 12+75.00

Filename: ...\MSTA\038_XSECT_12+25_003.dgn Division: HIGHWAY Username: Jonathan.French Date:12/9/2014

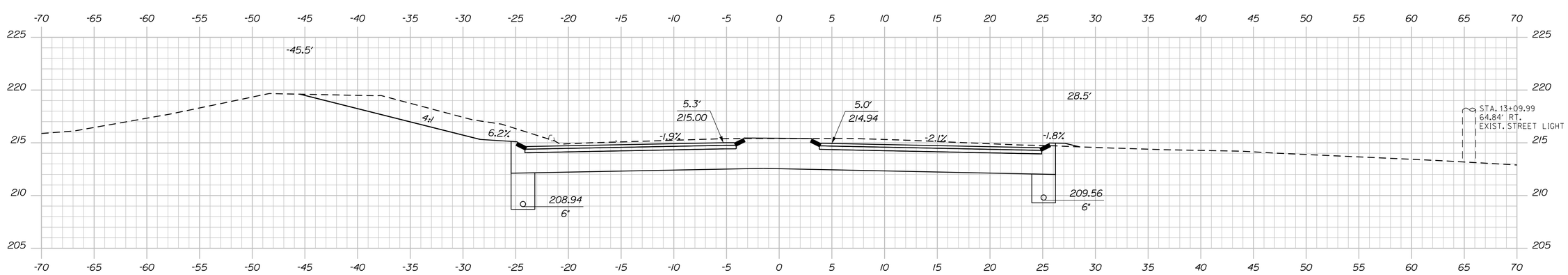


STA. 13+72.96, 57.3' LT. (HIGH POINT = 211.61)
TO STA. 23+51.46, 26.5' RT. (ELEV. = 211.49) (EXIT 102)
INSTALL 6" x 108.6' UD TYPE B

13+25.00

STA. 13+32.73, 33.2' RT. (HIGH POINT = 209.89)
TO CB#8 LT.
INSTALL 6" x 76.4' UD TYPE B

C = 173.8 CY
F = 0.5 CY



13+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

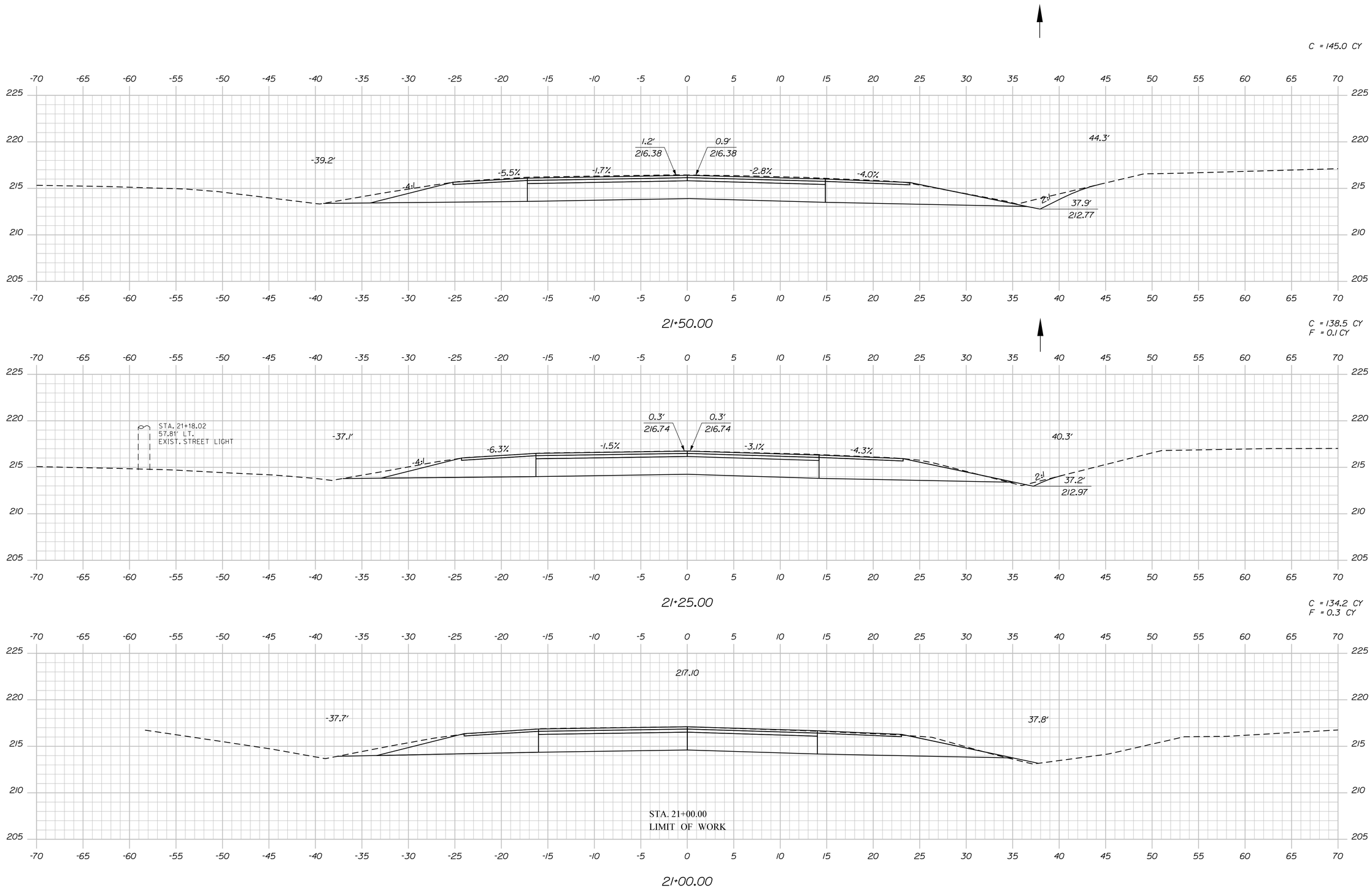
WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

SHEET NUMBER
39
OF 57

Filename: ...\MSTA\039_XSECT_13+00_004.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

Sta. 13+00.00 to Sta. 13+25.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

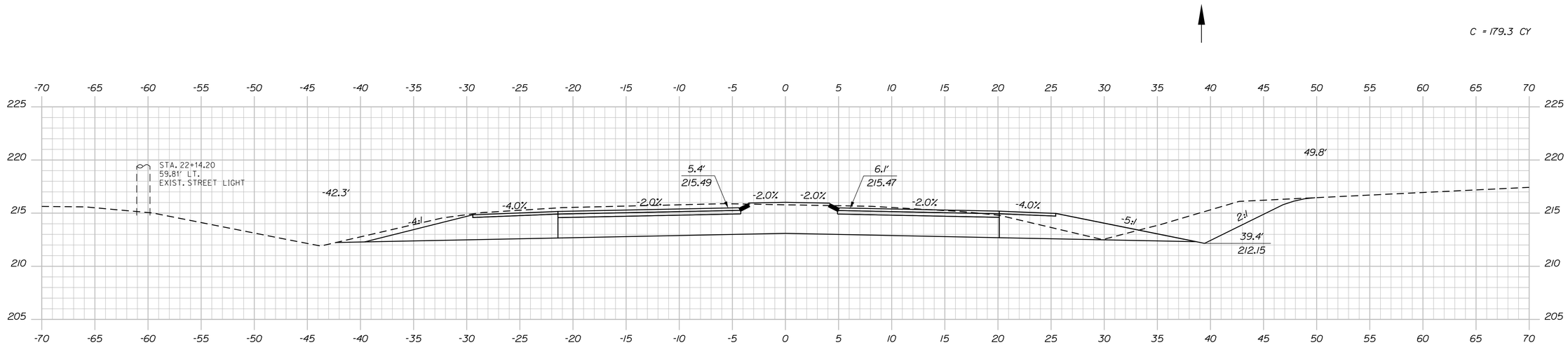
SHEET NUMBER

40

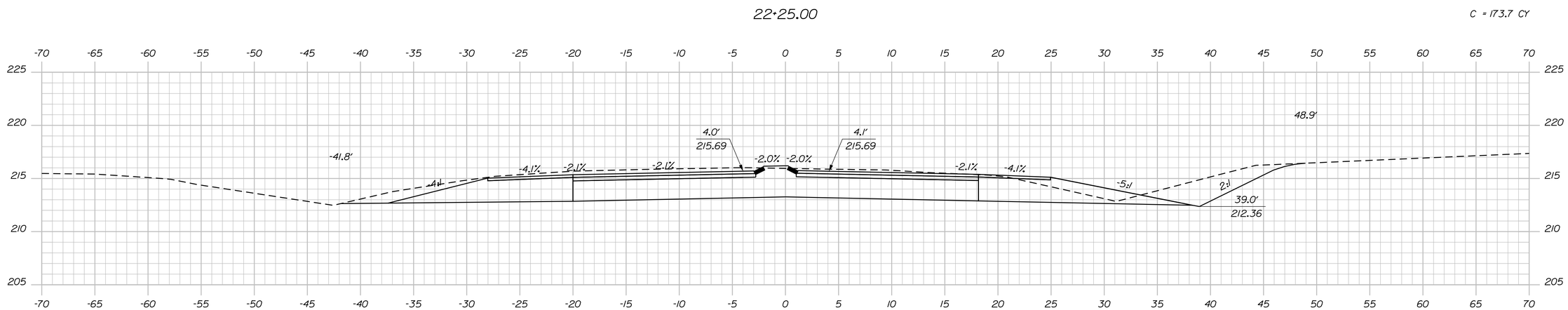
OF 57

Sta. 21+00.00 to Sta. 21+50.00

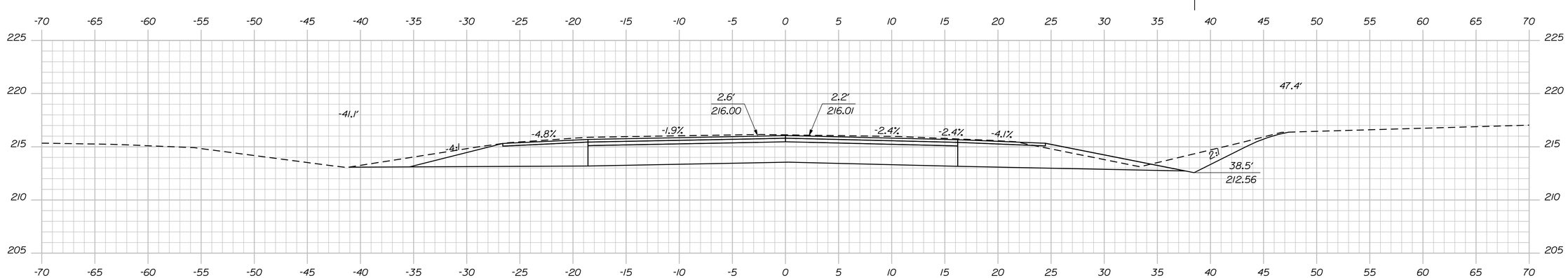
Filename: ...\MSTA\040_XSECT_21+00_005.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



22+25.00



22+00.00



21+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

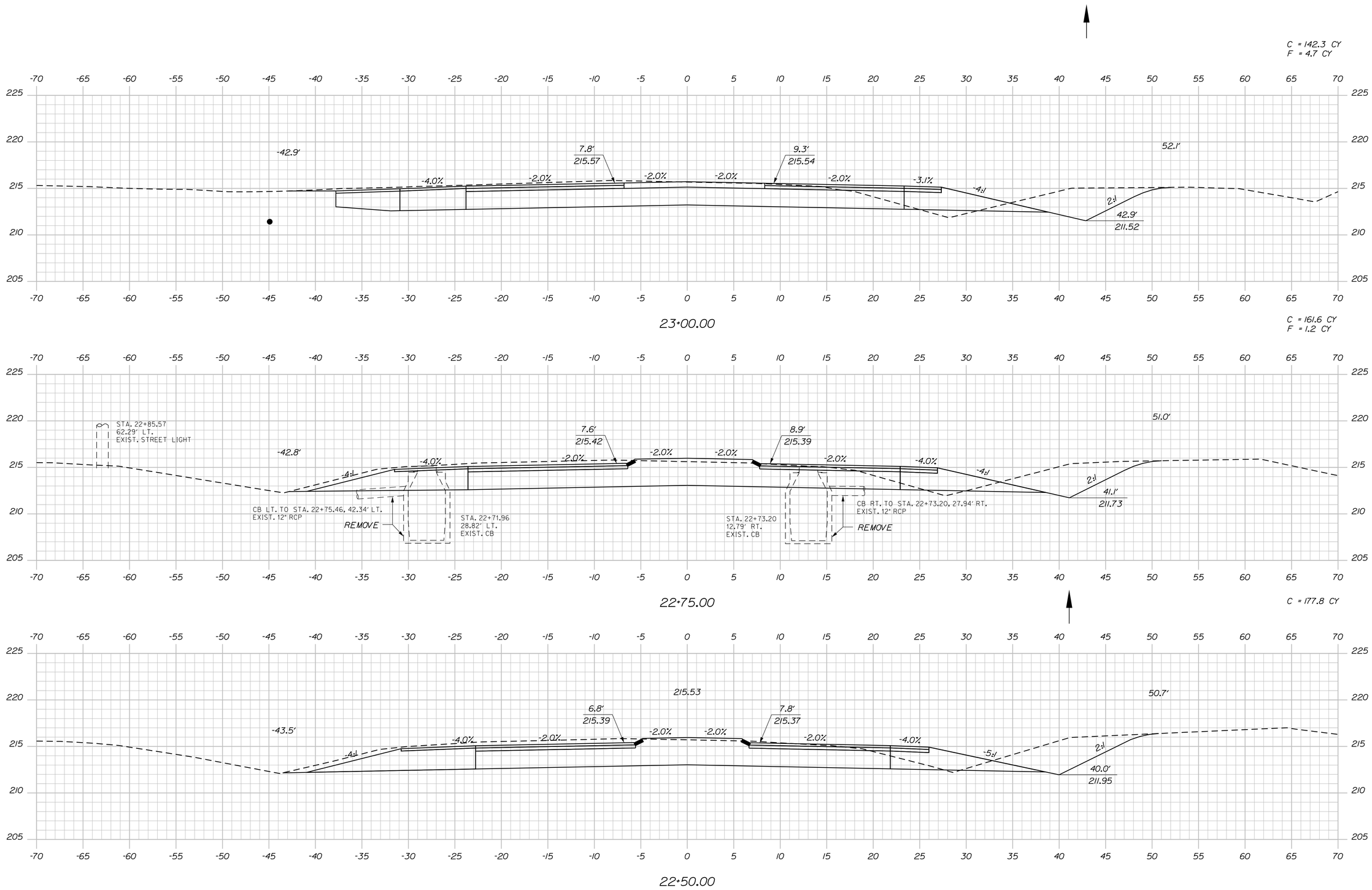
SHEET NUMBER

41

OF 57

Sta. 21+75.00 to Sta. 22+25.00

Filename: ...\MSTA\041_XSECT_21+75_006.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

SHEET NUMBER

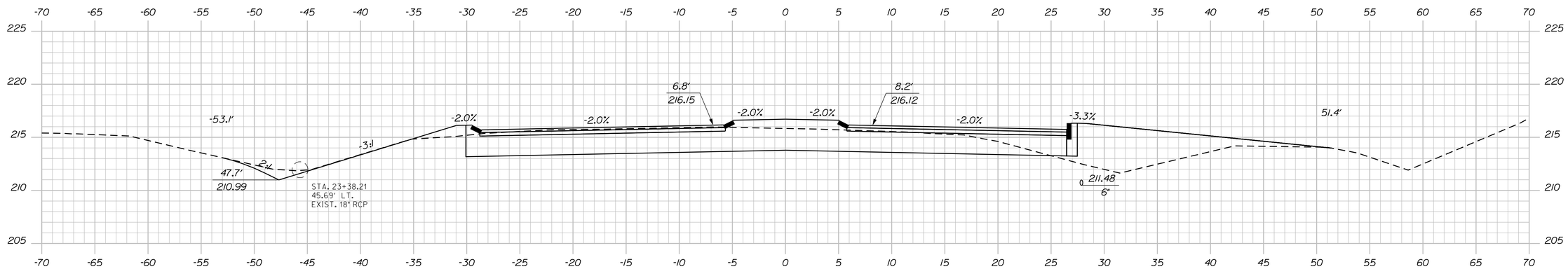
42

OF 57

Sta. 22+50.00 to Sta. 23+00.00

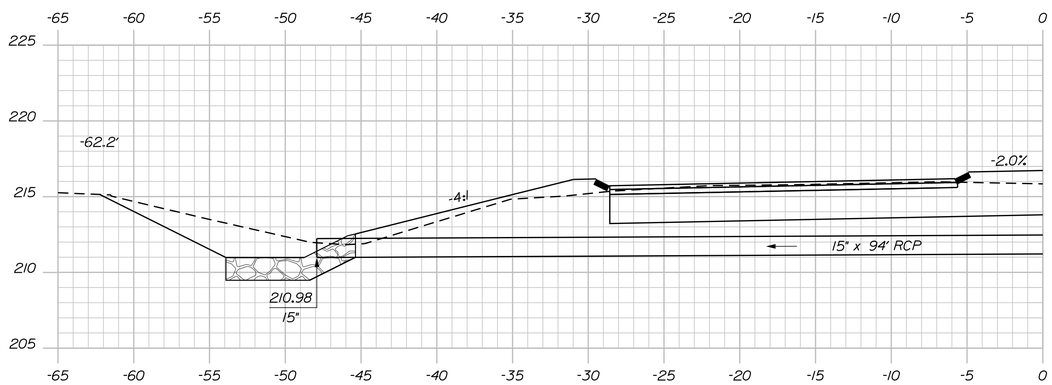
Filename: ...\MSTA\042_XSECT_22+50_007.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

C = 97.7 CY
F = 66.5 CY

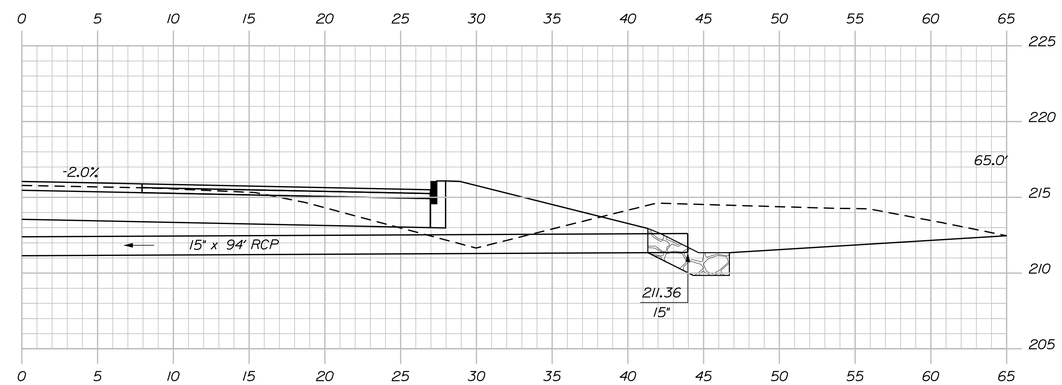


23+50.00

STA. 23+32.52, 45.4' RT. (ELEV. = 211.36)
TO STA. 23+51.46, 26.5' RT. (ELEV. = 211.49)
INSTALL 6" x 27.5' UD TYPE B OUTLET

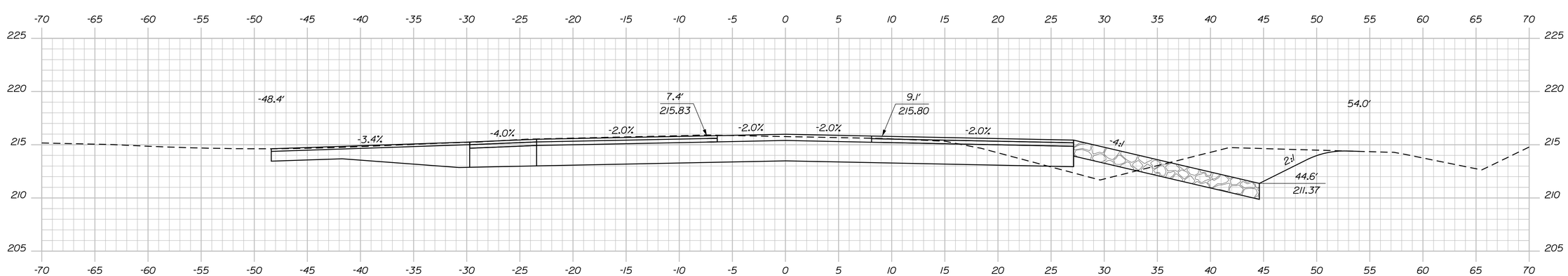


23+50.53



23+30.57

STA. 23+30.57, 45.0' RT.
TO STA. 23+50.53, 47.0' LT.
INSTALL 15" x 94' RCP



STA. 23+25.00 LT.
CONSTRUCT PAVED ENT.

23+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

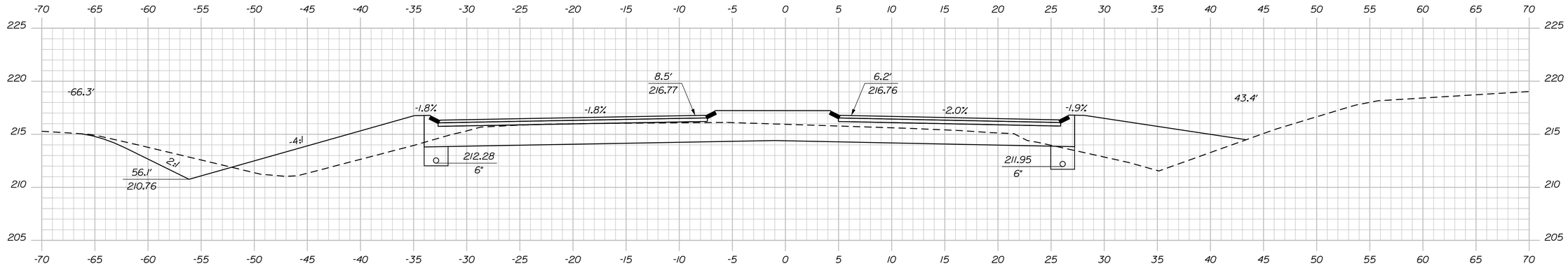
SHEET NUMBER

42A

OF 57

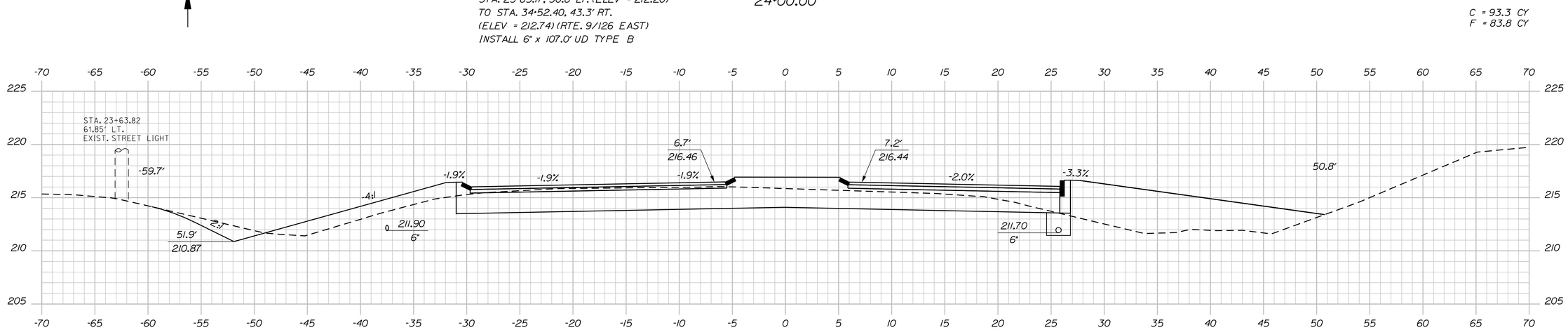
Filename: ...\MSTA\042A_XSECT_23+50_007A.dgn Division: HIGHWAY Username: Jonathan.French Date:12/1/2014

Sta. 23+25.00 to Sta. 23+50.00

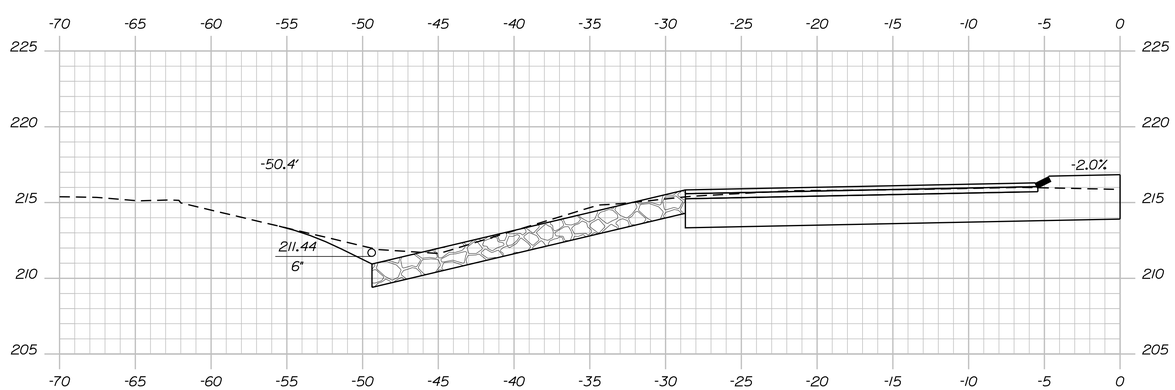


STA. 23+85.17, 30.8' LT. (ELEV = 212.20)
TO STA. 34+52.40, 43.3' RT.
(ELEV = 212.74) (RTE. 9/126 EAST)
INSTALL 6" x 107.0' UD TYPE B

24+00.00



23+75.00



STA. 23+60.00, 49.4' LT
TO STA. 23+85.17, 30.8' LT. (ELEV = 212.20)
INSTALL 6" x 32' UD TYPE B OUTLET

23+60.00

STATE OF MAINE
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STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

SHEET NUMBER

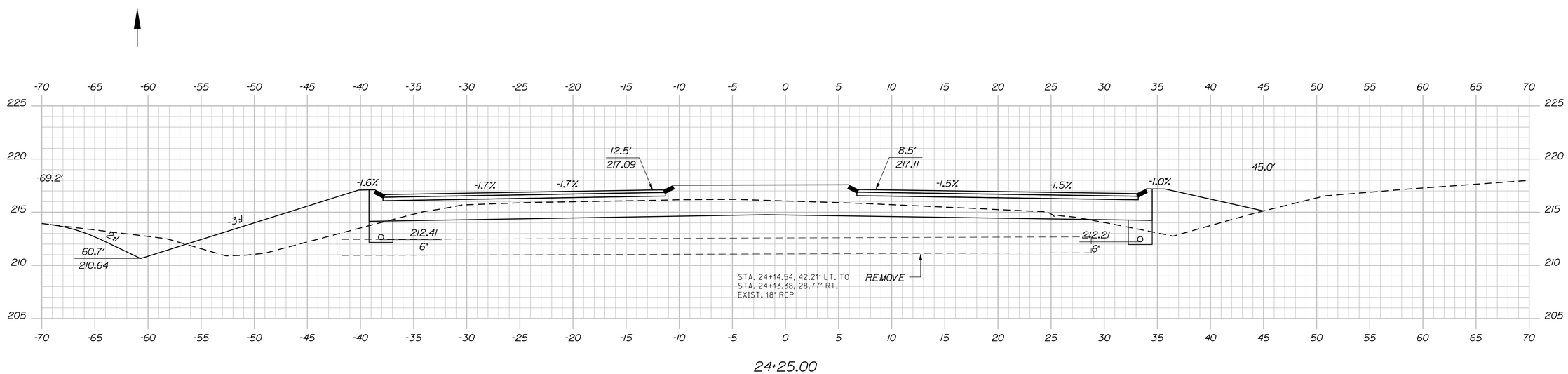
43

OF 57

Filename: ...\MSTA\043_XSECT_23+75_008.dgn Division: HIGHWAY Username: Jonathon.French Date:12/3/2014

Sta. 23+75.00 to Sta. 24+25.00

Filename: ...\MSTA\044_XSECT_24+00_009.dgn Division: HIGHWAY Username: Jonathon.French Date:12/3/2014



PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

WEST GARDINER
EXIT 102\ROUTE 9

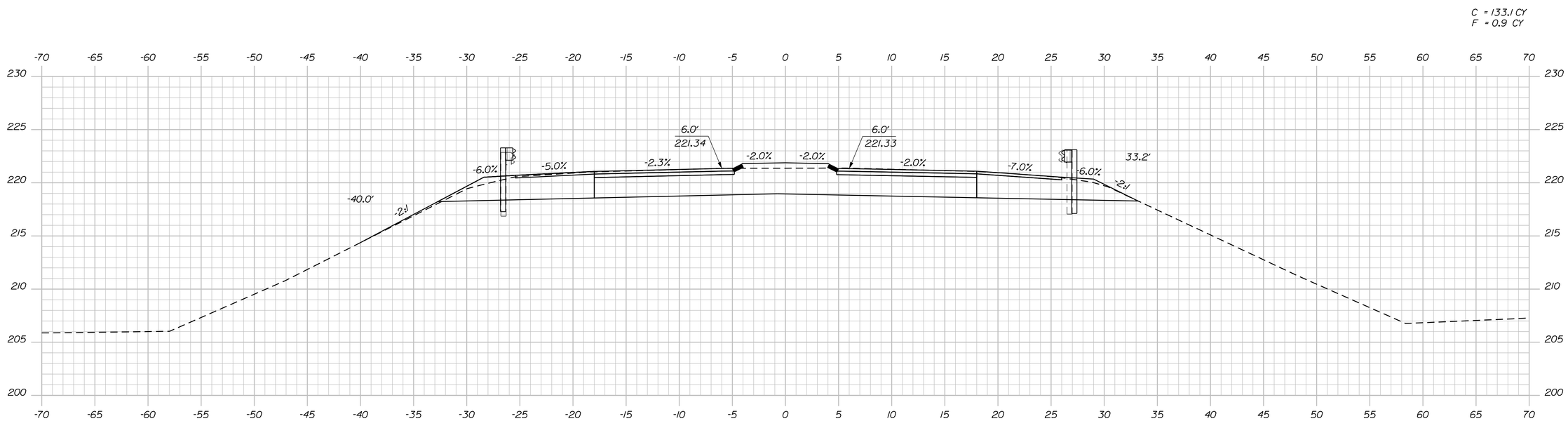
CROSS SECTIONS

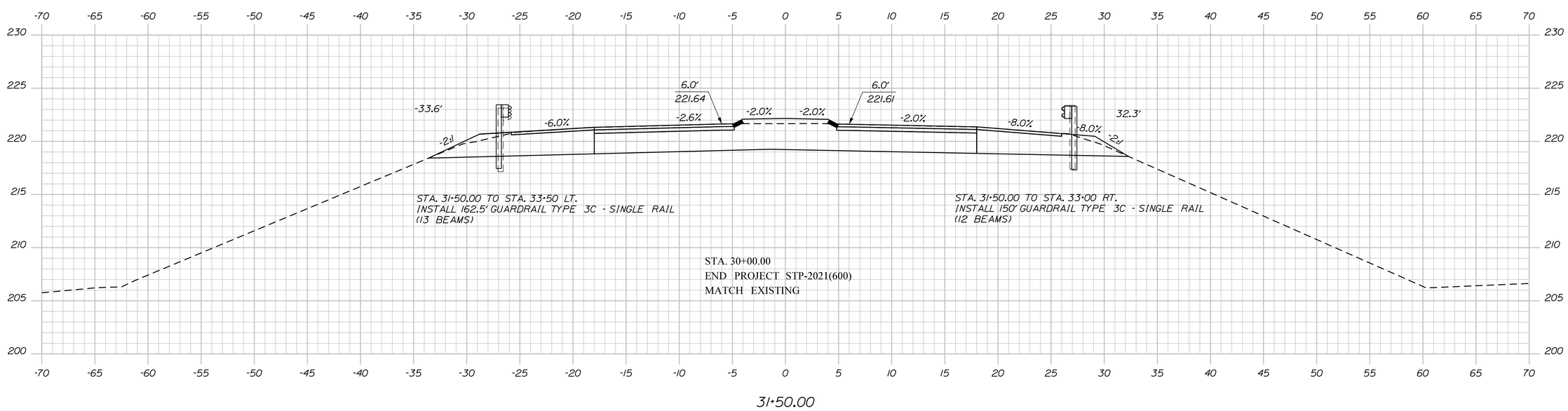
SHEET NUMBER

44

OF 57

Sta. 23+51.35 to Sta. 23+60.00





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	------
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

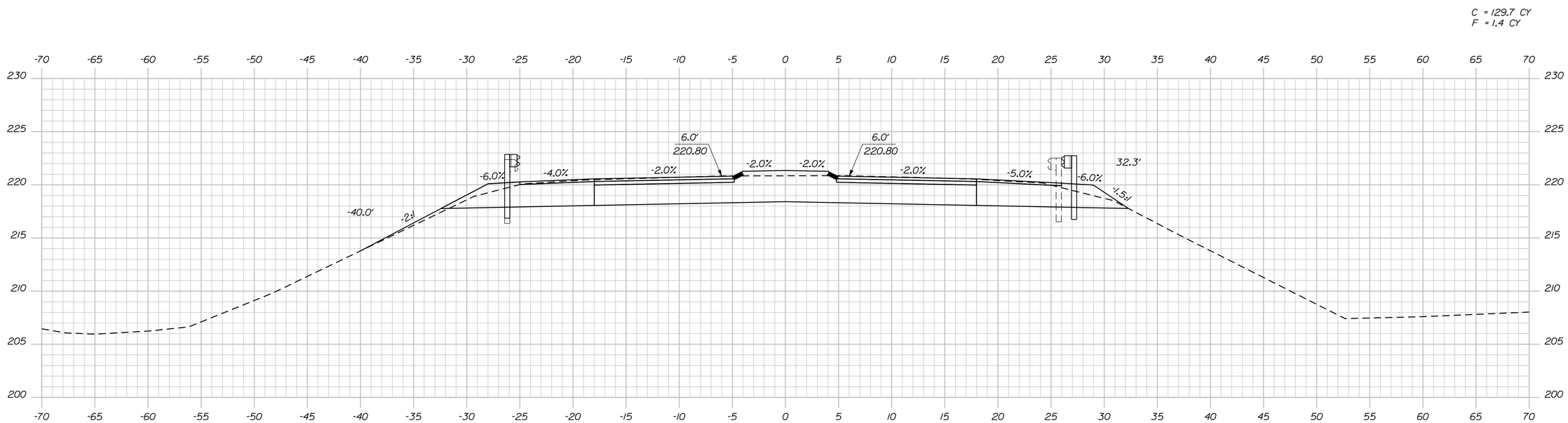
WEST GARDINER
EXIT 102\ROUTE 9

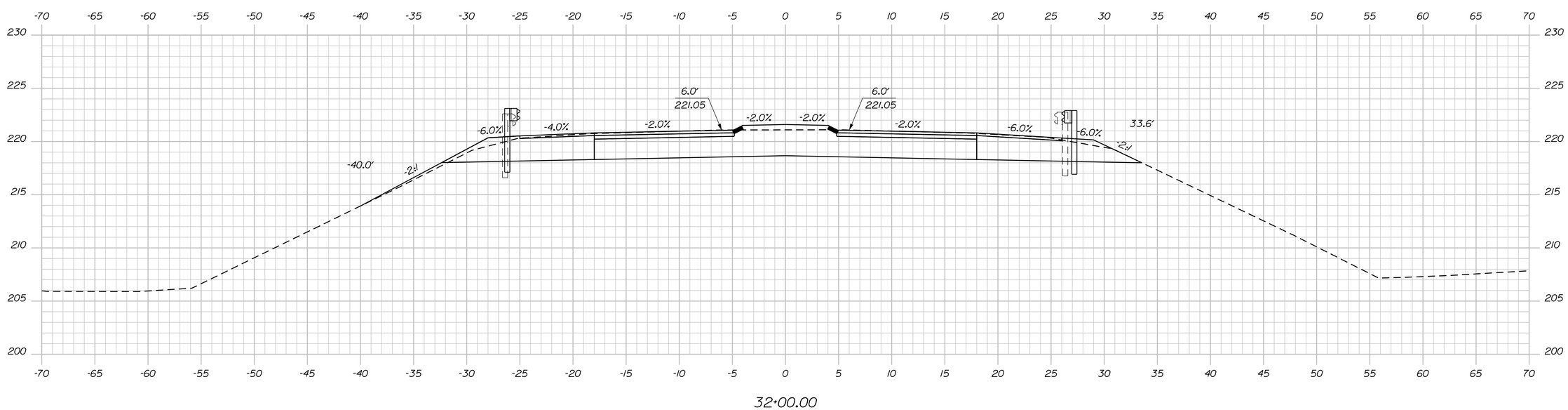
CROSS SECTIONS

SHEET NUMBER
45
OF 57

Filename: ...\MSTA\045_XSECT_31+50_010.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

Sta. 31+50.00 to Sta. 31+75.00





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	-----
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

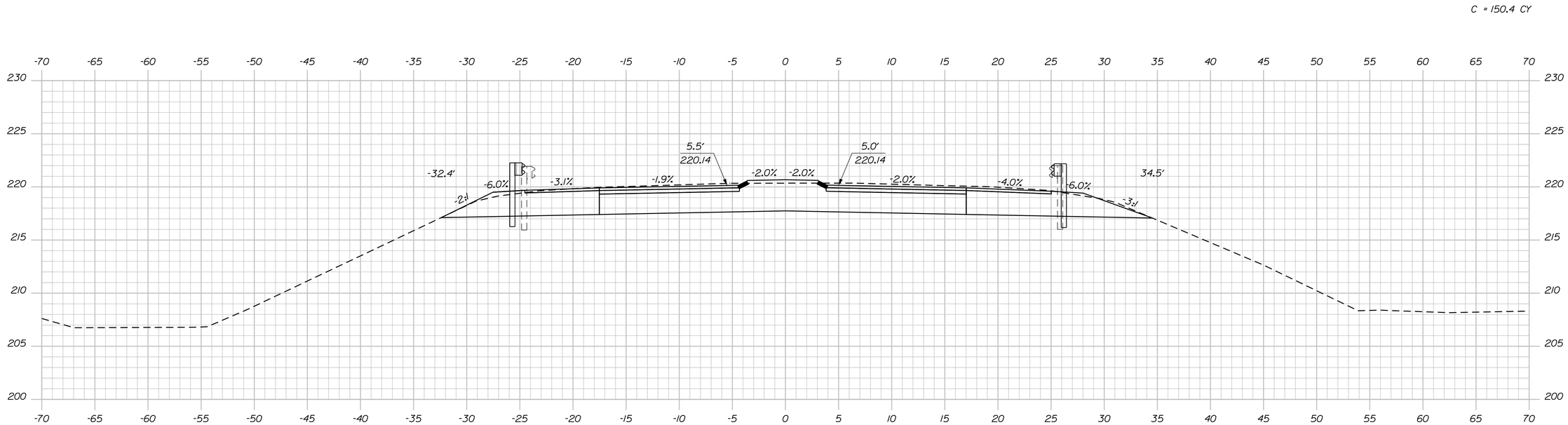
SHEET NUMBER

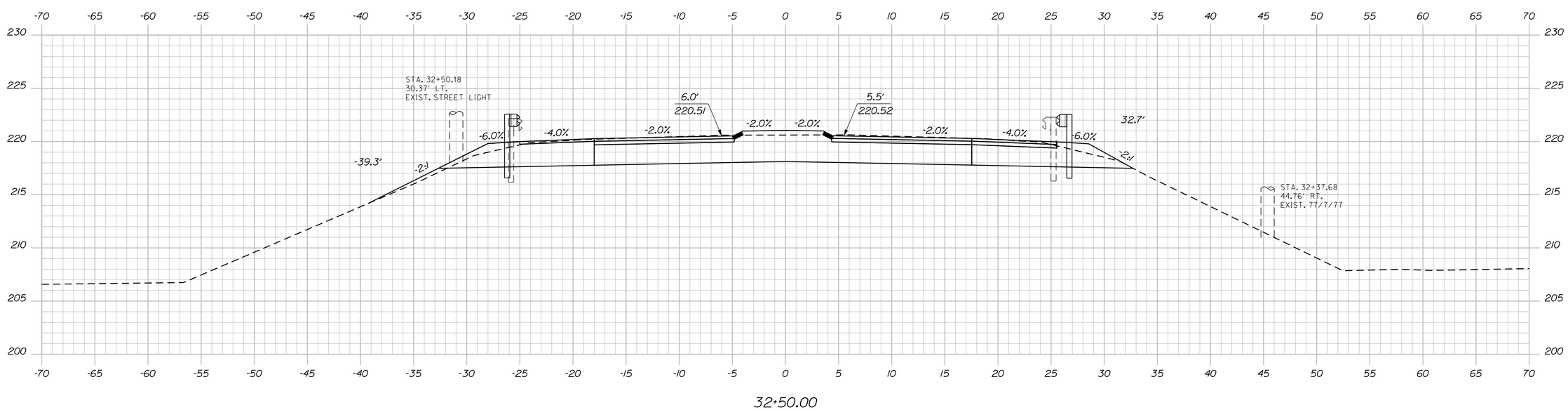
46

OF 57

Sta. 32+00.00 to Sta. 32+25.00

Filename: ...\MSTA\046_XSECT_32+00_011.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

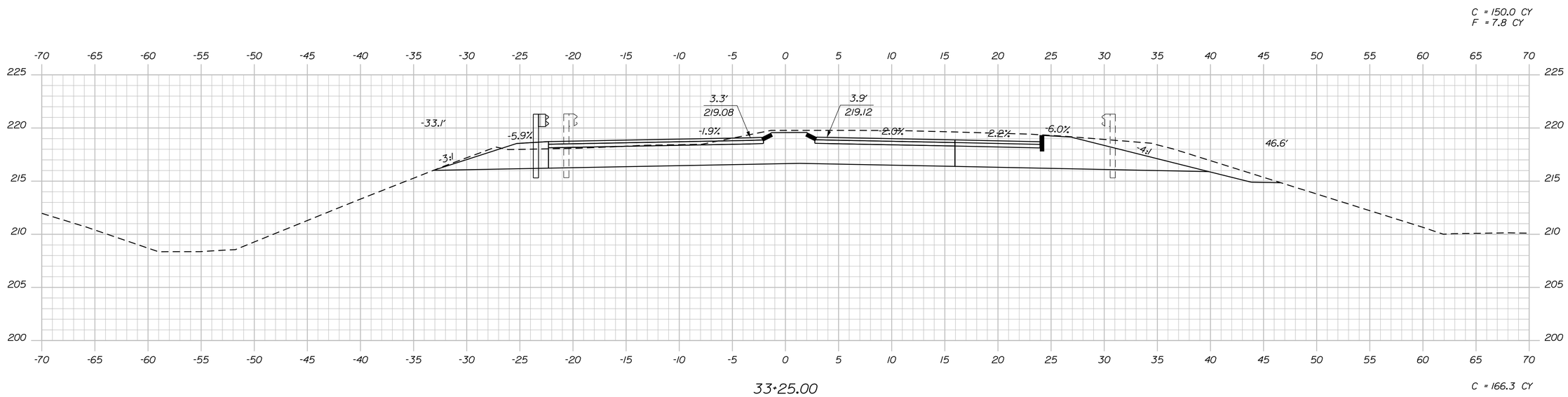
SHEET NUMBER

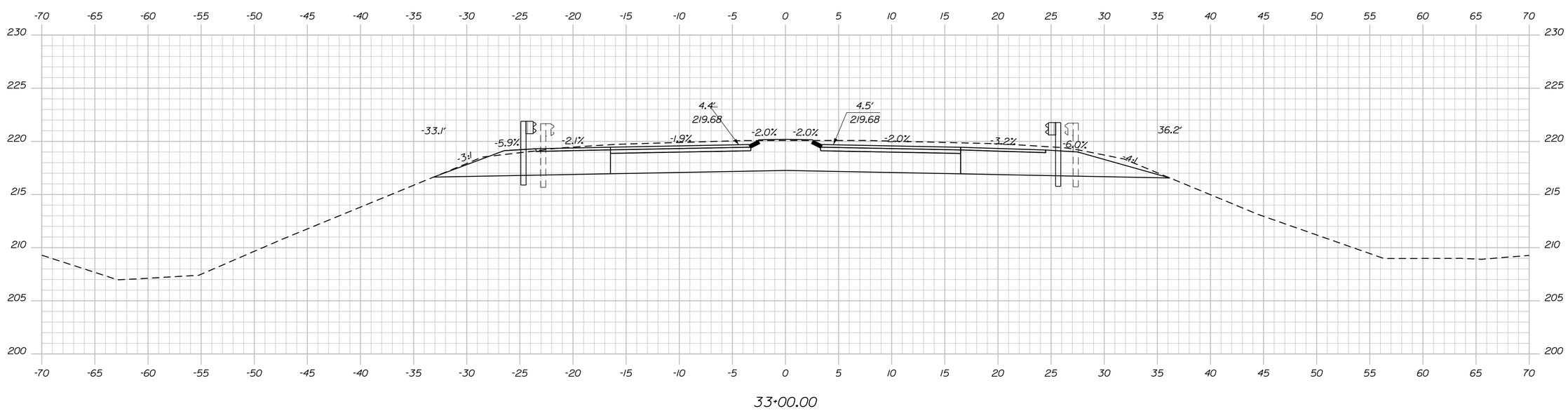
47

OF 57

Sta. 32+50.00 to Sta. 32+75.00

Filename: ...\MSTA\047_XSECT_32+50_012.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	------
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

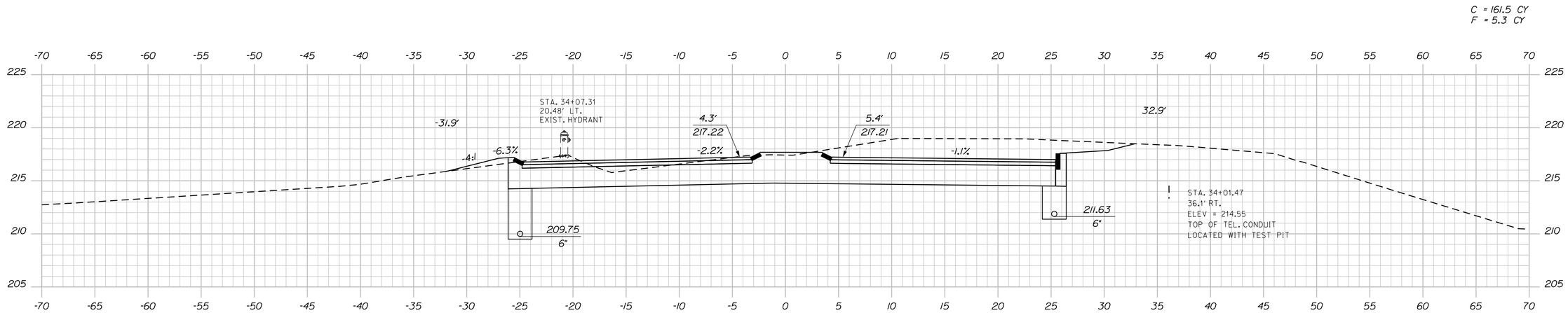
SHEET NUMBER

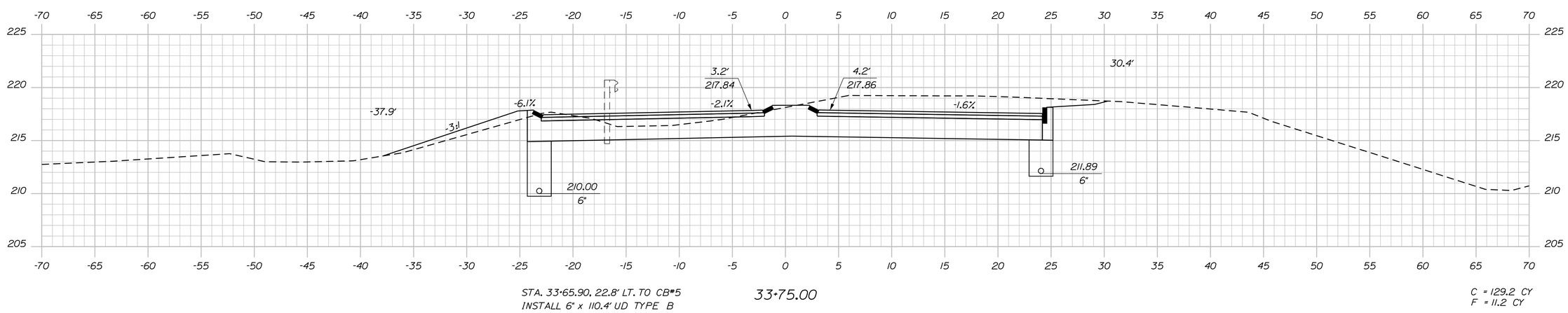
48

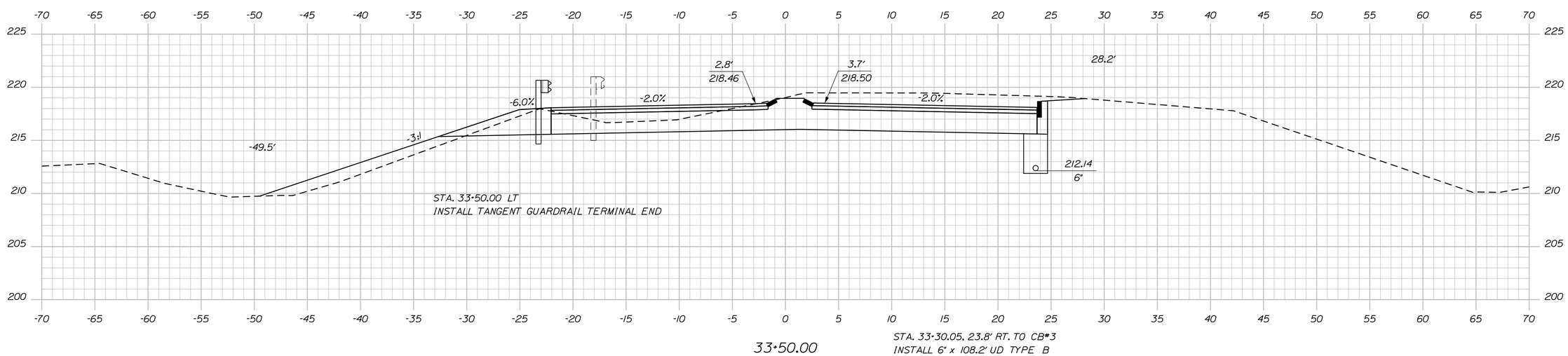
OF 57

Sta. 33+00.00 to Sta. 33+25.00

Filename: ...\MSTA\048_XSECT_33+00_013.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

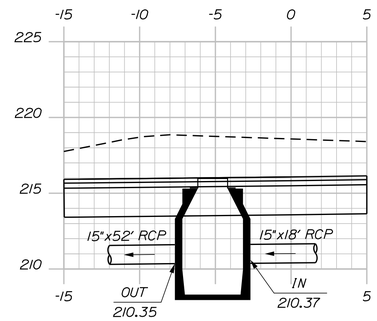
SHEET NUMBER

49

OF 57

Filename: ...\MSTA\049_XSECT_33+50_014.dgn Division: HIGHWAY Username: Jonathan.French Date:12/9/2014

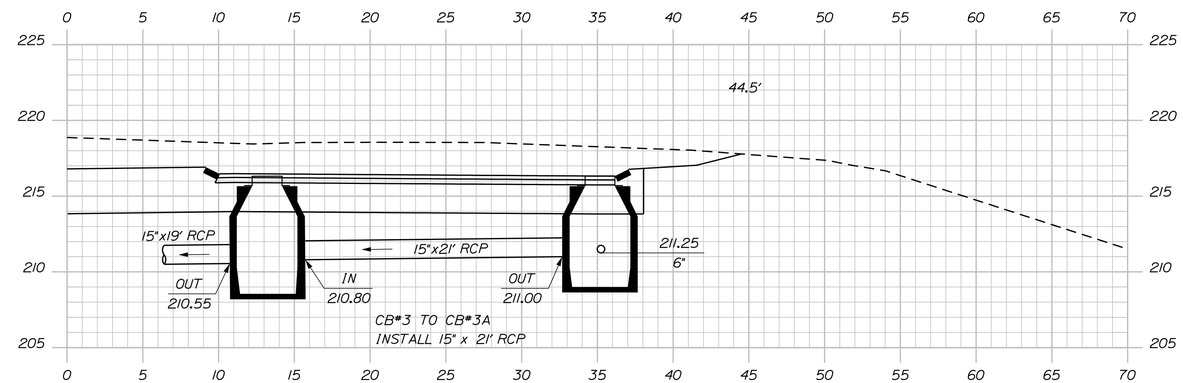
Sta. 33+50.00 to Sta. 34+00.00



(CB#4) STA. 34+50.00, 5.2' LT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 215.97

34+50.00

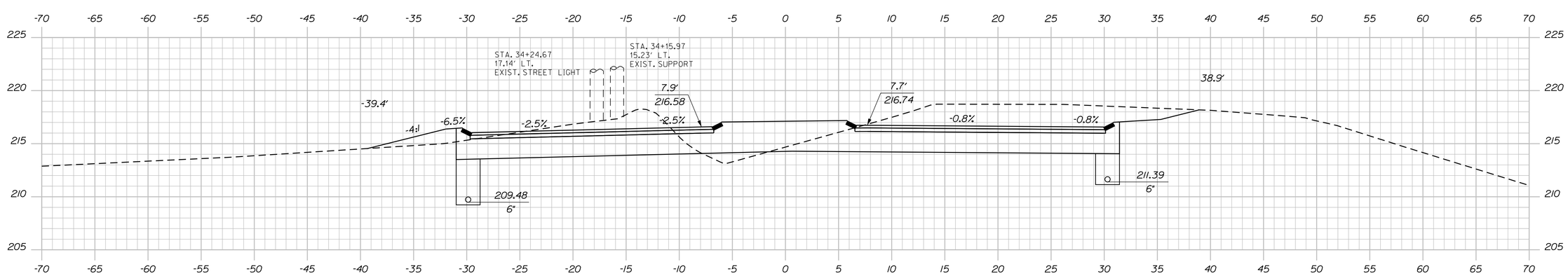
CB#4 TO CB#5
INSTALL 15" x 52' RCP



CB#3A TO CB#4
INSTALL 15" x 19' RCP

(CB#3A) STA. 34+45.99, 13.2' RT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 216.32

(CB#3) STA. 34+39.42, 35.2' RT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 216.28



34+25.00

Sta. 34+25.00 to Sta. 34+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

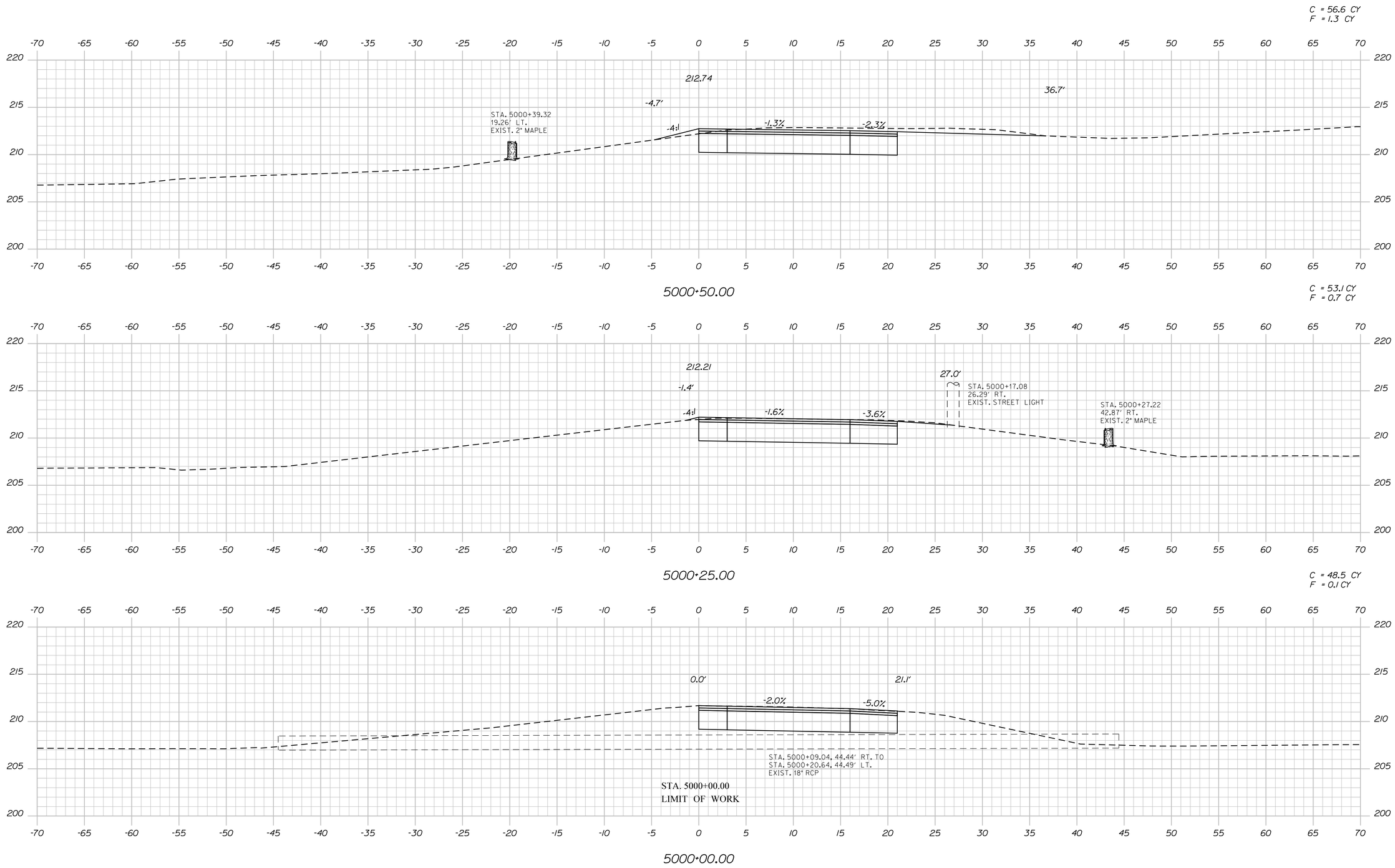
CROSS SECTIONS

SHEET NUMBER

50

OF 57

Filename: ...\MSTA\050_XSECT_34+25_015.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

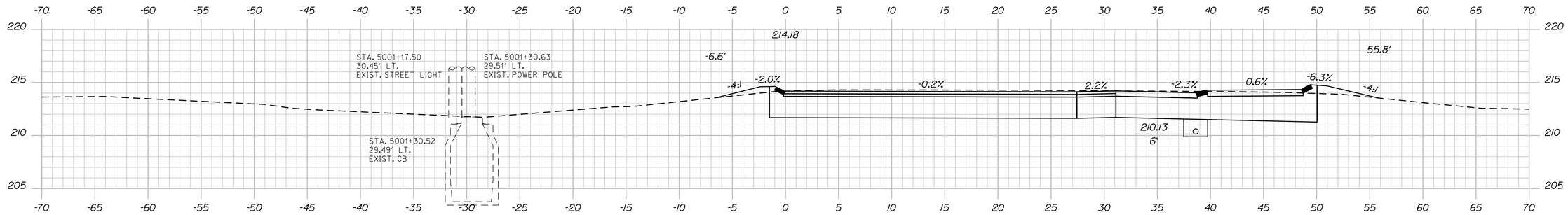
SHEET NUMBER

51

OF 57

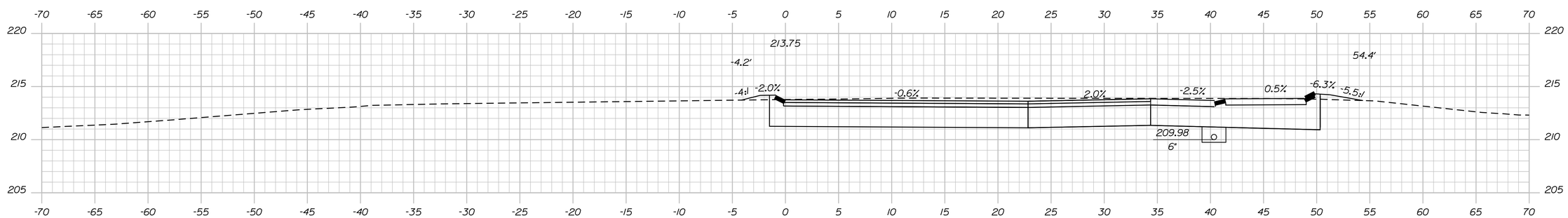
Sta. 5000+00.00 to Sta. 5000+50.00

Filename: ...\MSTA\051_XSECT_5000+00_016.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



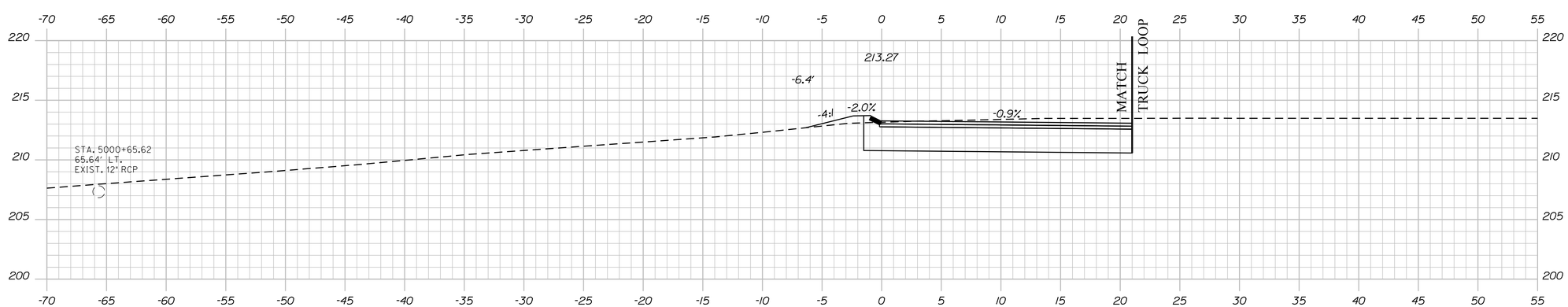
5001+25.00

C = 123.4 CY
F = 3.1 CY



5001+00.00

C = 91.0 CY
F = 1.9 CY



5000+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

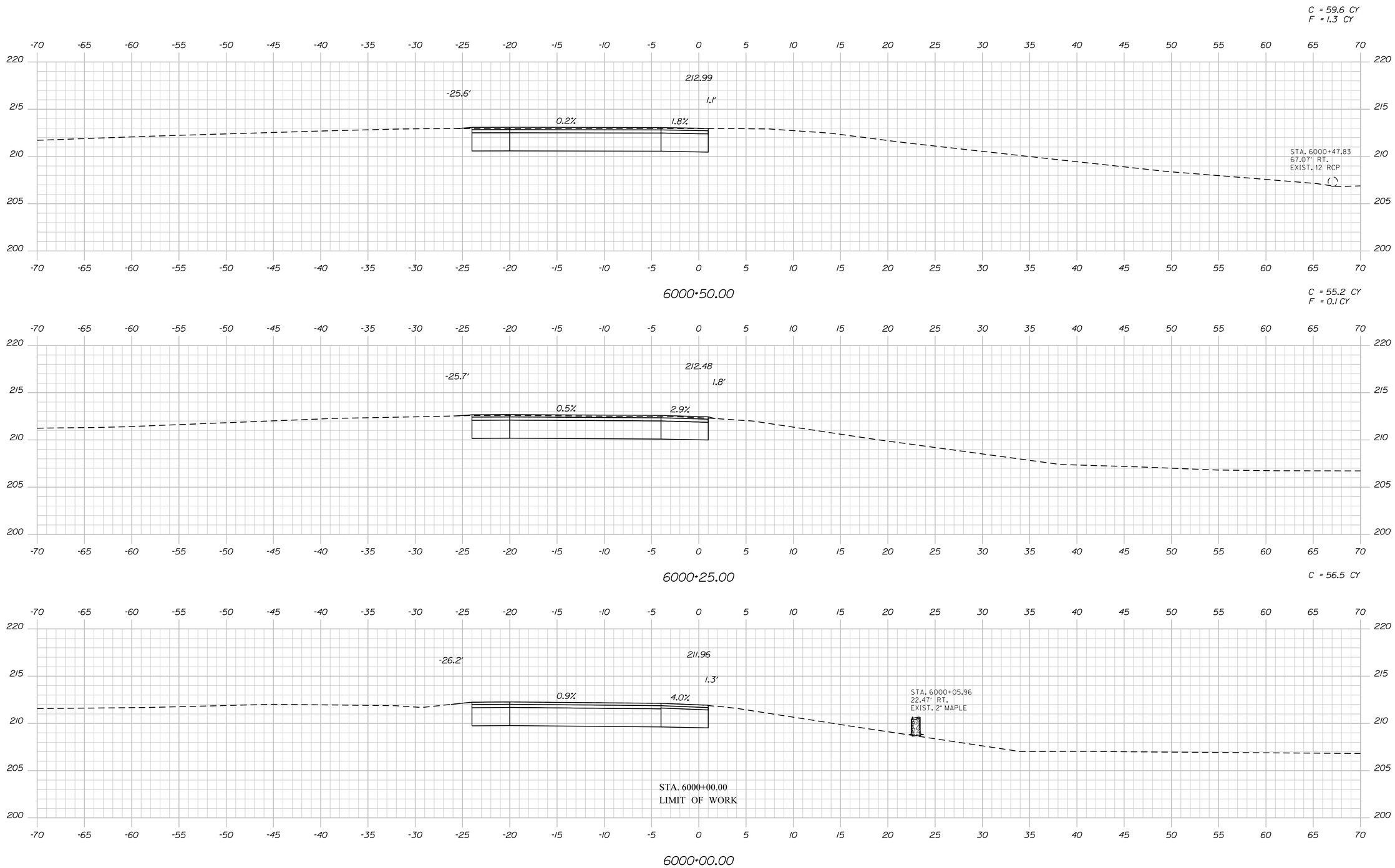
WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

SHEET NUMBER
52
OF 57

Filename: ...\MSTA\052_XSECT_5000+75_017.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

Sta. 5000+75.00 to Sta. 5001+25.00



Filename: ...\MSTA\053_XSECT_6000+00_018.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

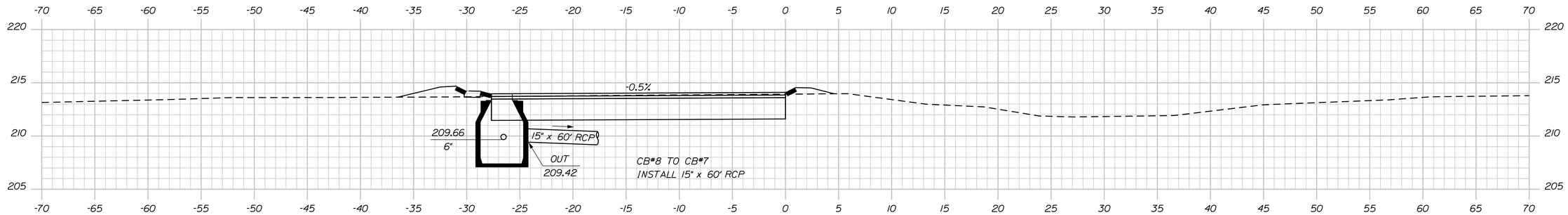
CROSS SECTIONS

SHEET NUMBER

53

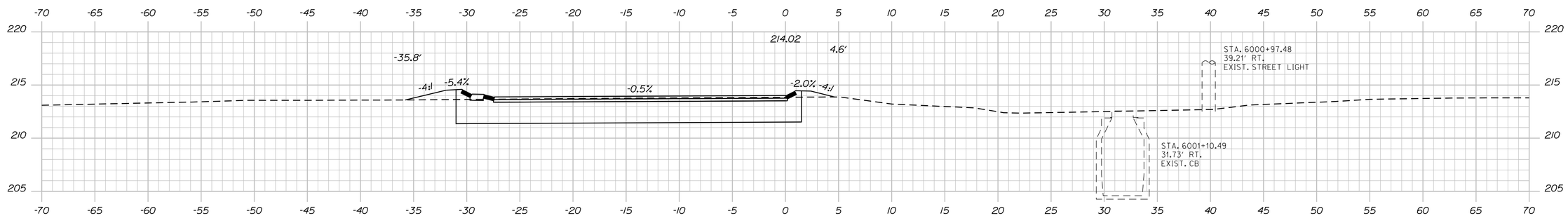
OF 57

Sta. 6000+00.00 to Sta. 6000+50.00



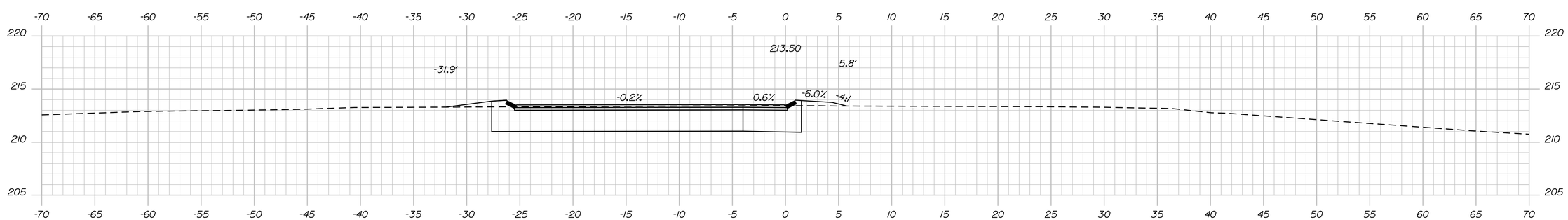
(CB#8) STA. 6001+04.00, 26.7' LT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 213.93

6001+04.00



6001+00.00

C = 66.9 CY
F = 2.9 CY



6000+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN
20216.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

WEST GARDINER
EXIT 102\ROUTE 9

CROSS SECTIONS

SHEET NUMBER

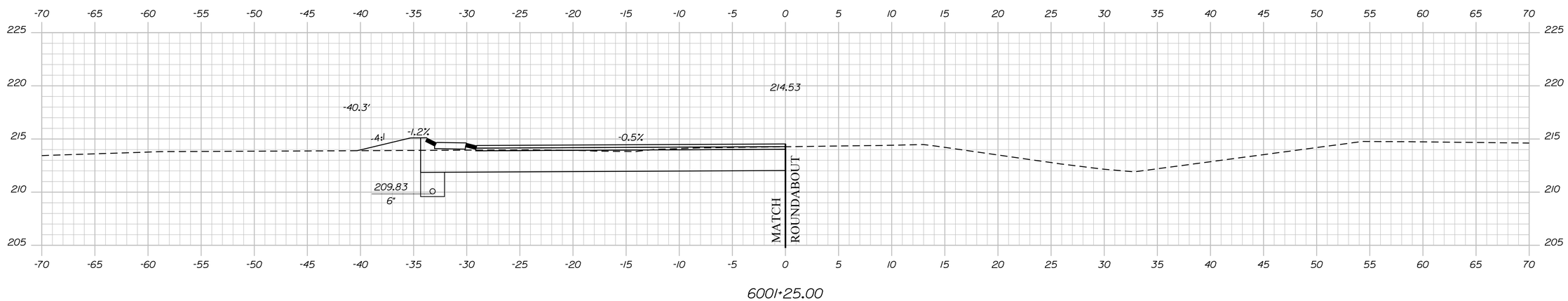
54

OF 57

Sta. 6000+75.00 to Sta. 6001+25.00

Filename: ...\MSTA\054_XSECT_6000+75_019.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014

Filename: ...\MSTA\055_XSECT_6001+04_020.dgn Division: HIGHWAY Username: Jonathon.French Date:12/3/2014



PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2021(600)

WIN 20216.00

HIGHWAY PLANS

WEST GARDINER
EXIT 102\ROUTE 9

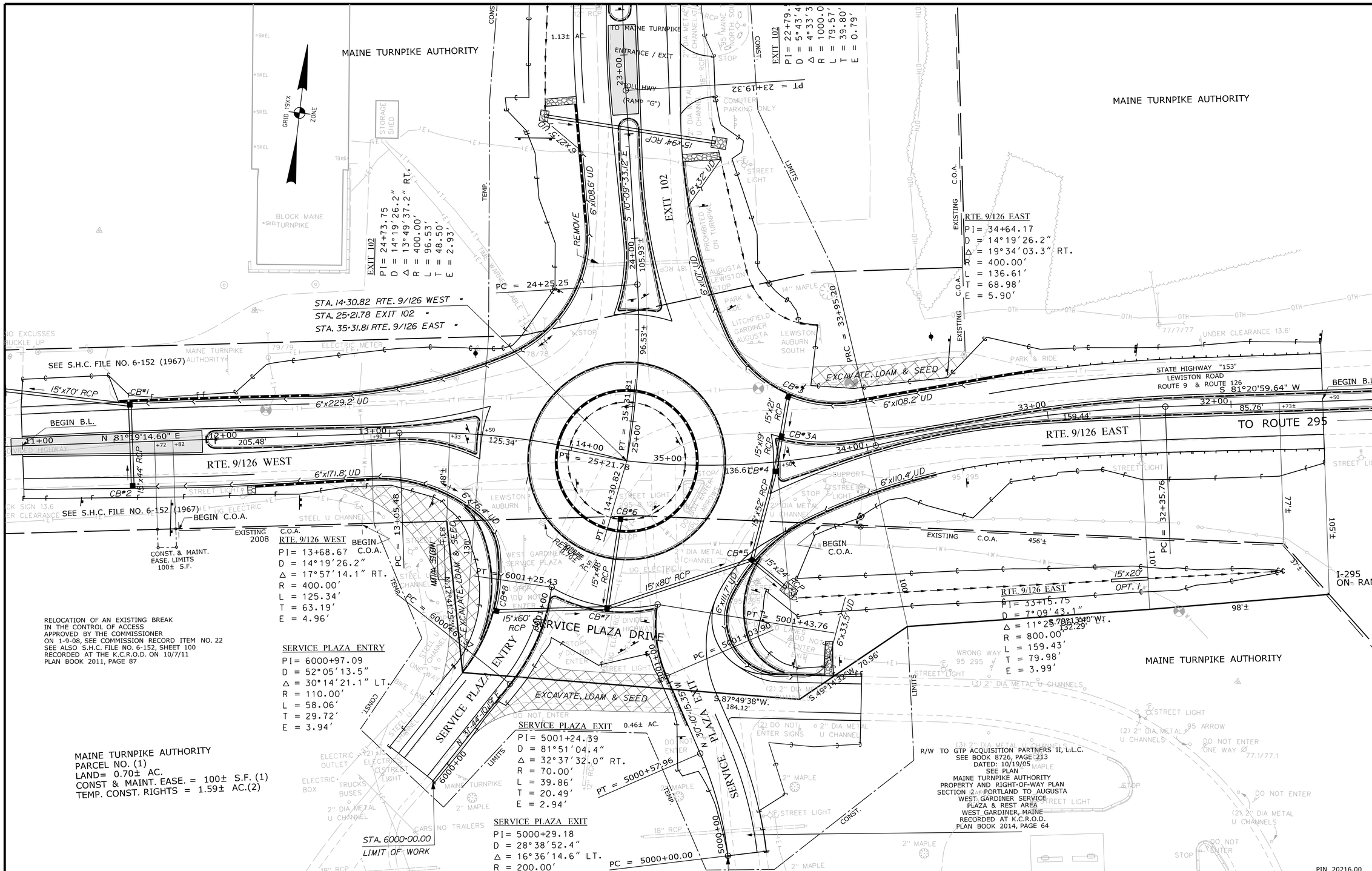
CROSS SECTIONS

SHEET NUMBER

55

OF 57

Sta. 6001+04.00 to Sta. 6001+04.00



SYMBOLS

- ● IP or ● IPF (IRON PIPE or PIN FOUND)
- ☐ S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WELL
- BREAKING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF WORK (RIGHT TO ENTER) (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W		
PROP. LINES		
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

WEST GARDINER
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK			PAGE	COUNTY RECORD		
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER

DATE

STATE HIGHWAY "153"
ROUTES 9\126
WEST GARDINER KENNEBEC COUNTY
FEDERAL AID PROJECT NO. STP-2021(600)

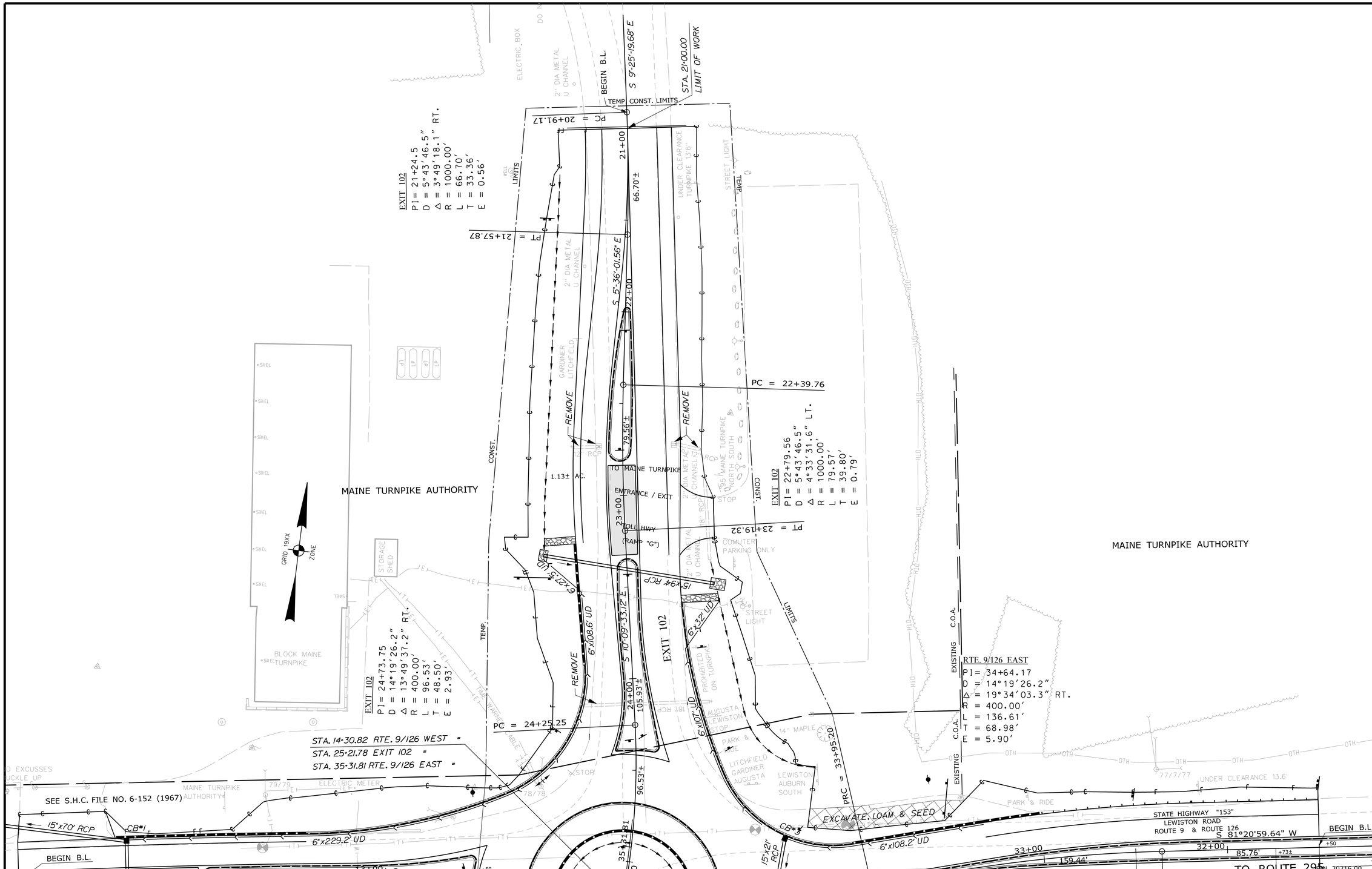
NOVEMBER 2014 | RIGHT-OF-WAY MAP
SCALE 1" = 25' | SHEET 1 OF 2

D.O.T. FILE NO. 6-457

SHEET NUMBER
56
OF 57

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: Jonathon.French Date:12/3/2014

Filename: ...\00\ROW\MSTA\002_RWPLAN2.dgn Division: HIGHWAY Username: Jonathan.French Date:12/3/2014



REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK						
NO.	GRANTOR		INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER

DATE

STATE HIGHWAY "153"
ROUTES 9\126
WEST GARDINER KENNEBEC COUNTY
FEDERAL AID PROJECT NO. STP-2021(600)

NOVEMBER 2014	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-457
SCALE 1" = 25'	SHEET 2 OF 2	

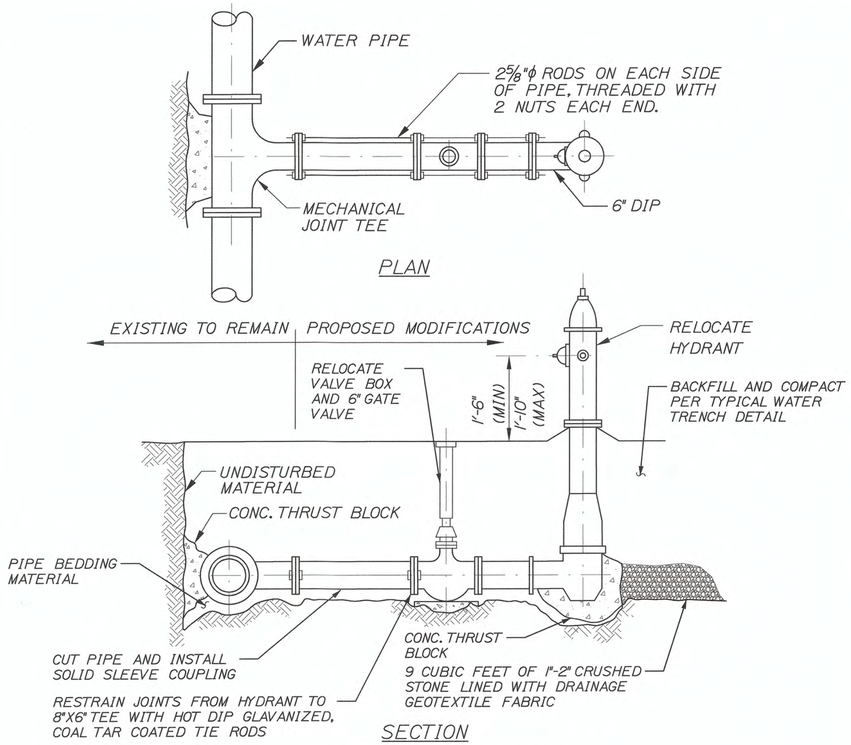
SHEET NUMBER
57
OF 57

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W		
PROP. LINES		
AREAS	T.L.B.	D.S.G.

SYMBOLS

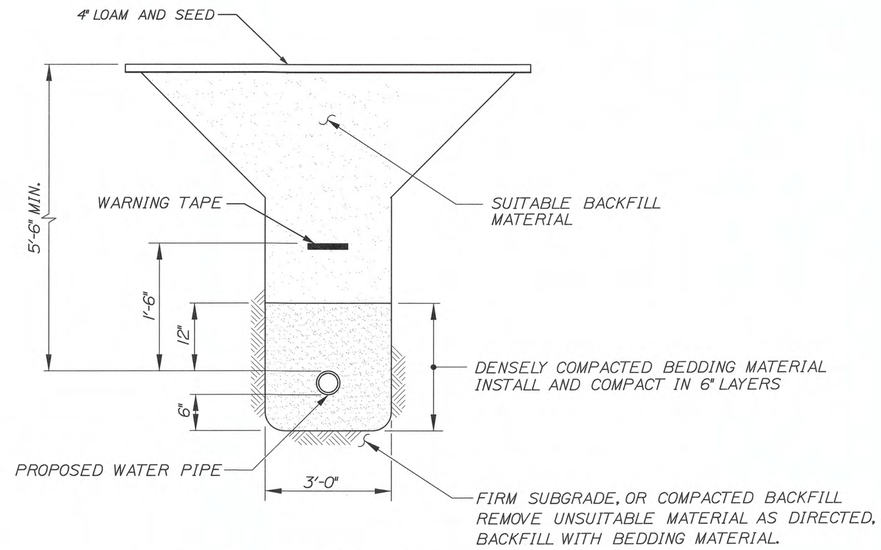
- IP or IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WELL (WELL)
- GROUNDING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF RIGHT OF WAY
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

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



RELOCATED HYDRANT

NOT TO SCALE

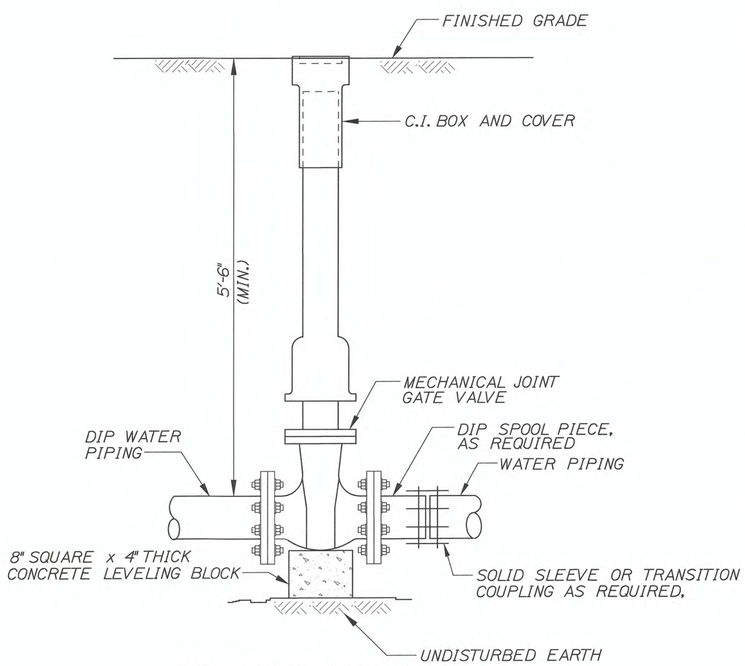


TYPICAL WATER TRENCH

NOT TO SCALE

NOTES

1. BEDDING MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
2. OVERDEPTH EXCAVATION OF UNSUITABLE FOUNDATION MATERIAL, AS DIRECTED BY THE RESIDENT, SHALL BE MEASURED UNDER ITEM 206.061. REFILL WITH GRANULAR BORROW, ITEM 203.25.



RELOCATED GATE VALVE

NOT TO SCALE

HYDRANT INSTALLATION NOTES:

1. A GATE VALVE AVAILABLE TO CONTROL THE HYDRANT WATER MAIN IS LOCATED BEYOND THE EDGE OF PAVEMENT EAST OF THE SERVICE PLAZA GAS STATION. THE CONTACTOR SHALL TEMPORARILY TURN OFF THE WATER SERVICE AT THIS LOCATION TO CONDUCT THE HYDRANT RELOCATION WORK. WATERTIGHT CLOSURE OF EXISTING VALVES CANNOT BE GUARANTEED.
2. THE WATER SERVICE TO THE MTA SERVICE PLAZA AND GAS STATION MUST REMAIN IN SERVICE AT ALL TIMES.
3. ALL FITTINGS, VALVES, AND PIPE JOINTS SHALL BE RESTRAINED AGAINST THRUST.
4. THE MAINE TURNPIKE AUTHORITY MAINTENANCE BUILDING LOCATED ON ROUTE 126 IS SERVICED BY THE 8" WATER MAIN. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY WATER SERVICE SHUT DOWN WITH THE AUTHORITY AND LIMIT THE DURATION THE BUILDING WILL BE OUT OF SERVICE.

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER STP-2021(600)

STATE OF MAINE ROLAND A. LAVALLEE No. 6452 LICENSED PROFESSIONAL ENGINEER

SIGNATURE 6452 P.E. NUMBER
11/14/14 DATE

PROJ. MANAGER	RAL	BY	DATE
DESIGN-DETAILED	HME	RJD	11/14
CHECKED-REVIEWED	-	RJD	11/14
DESIGN2-DETAILED2	-	-	-
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

WEST GARDINER

WATER DETAILS

SHEET NUMBER

W-1

Filename: Water Details.dgn Division: Username: Date:11/14/2014