STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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

BLUE HILL

HANCOCK COUNTY

RTE. 15\172\176 & BEECH HILL RD.

STP-1725(800)X

PROJECT LENGTH : 0.21 MILE

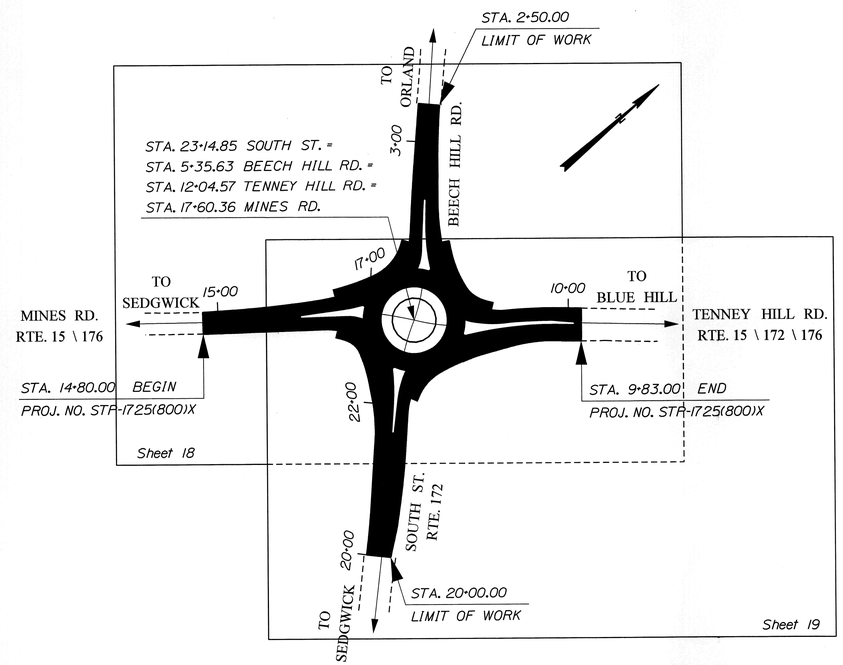
INDEX OF SHEETS

TRAFFIC DATA

	BEECH HILL RD.	TENNEY HILL RD. (RTE. 15/172/176)
Current (2012) AADT	2220	7870
Future (2032) AADT	2890	10230
DHV - % of AADT	9%	11%
Design Hour Volume	273	1122
% Heavy Trucks (AADT)	3%	5%
% Heavy Trucks (DHV)	2%	2%
Directional Distribution (DHV)	55%	53%
18 kip Equivalent P 2.0	28	200
18 kip Equivalent P 2.5	27	191
Design Speed (mph)	25	35
Functional Class:	Local Road	Major Collector
Corridor Priority:	6	3

TRAFFIC DATA

	SOUTH ST. (RTE. 172)	MINES RD. (RTE. 15/176)	ROUNDABOUT
Current (2012) AADT	7150	4460	5430
Future (2032) AADT	9300	5800	7055
DHV - % of AADT	11%	9%	9%
Design Hour Volume	1020	537	602
% Heavy Trucks (AADT)	3%	8%	5%
% Heavy Trucks (DHV)	3%	3%	3%
Directional Distribution (DHV)	52%	51%	100%
18 kip Equivalent P 2.0	117	190	268
18 kip Equivalent P 2.5	111	181	255
Design Speed (mph)	40	35	15
Functional Class:	Major Collector	Major Collector	N/A
Corridor Priority:	5	3	N/A



LAYOUT SCALE

100 0 100 200

Scale in Feet

PROJECT LOCATION:	INTERSECTION OF RTE. 15 \ 172 \ 176 & BEECH HILL ROAD
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	INSTALLATION OF A ROUNDABOUT

WIN 17258.00 STP-1725(800)X

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE 11/13/12
COMMISSIONER:
CHIEF ENGINEER: 11/6/12

STATE OF MAINE — ATLEE MOUSSEAU — No. 10415 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
P.E. NUMBER 10415
DATE 11-6-12

PROJECT INFORMATION
PROGRAM: HIGHWAY
PROJECT MANAGER: P. MACDONALD
DESIGNER: A. MOUSSEAU
CONSULTANT
PROJECT RESIDENT
CONTRACTOR
PROJECT COMPLETION DATE

BLUE HILL
RTE. 15/172/176 & BEECH HILL RD.

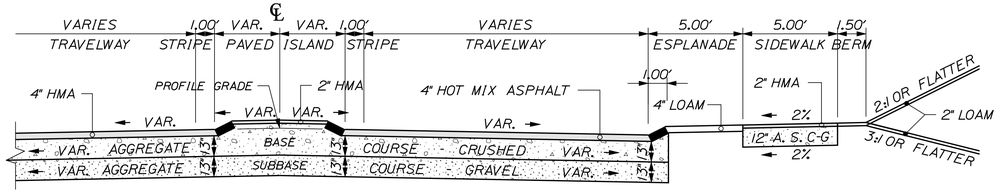
TITLE SHEET

SHEET NUMBER
1
OF 40

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/6/2012

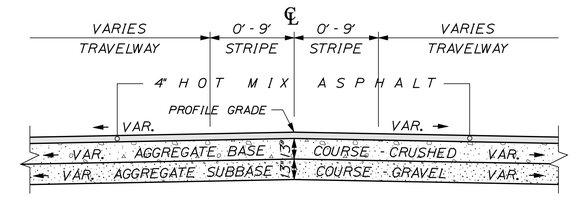
FULL CONSTRUCTION NORMAL SECTIONS

CURB TYPE
▌ : CURB TYPE I
▬ : CURB TYPE 5
STATIONING
STA. 3+00 : BEECH HILL RD.
STA. 10+00 : TENNEY HILL RD.
STA. 15+00 : MINES RD.
STA. 20+00 : SOUTH ST.

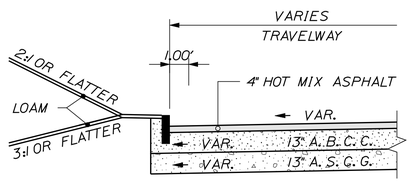


TRAVELWAY W/ ISLAND
13" A. B. C. C. = 4 CY/100 LF/FT OF WIDTH
13" A. S. C. G. = 4 CY/100 LF/FT OF WIDTH
STATION TO STATION
3+75.43 TO 4+36.43
4+42.43 TO 4+68.34
9+91.68 TO 11+04.80
11+10.81 TO 11+37.39
16+09.20 TO 16+60.72
16+66.74 TO 16+93.21
21+63.05 TO 22+15.65
22+21.64 TO 22+47.65

ESPLANADE / SIDEWALK
12" A. S. C. G. = 18.5 CY/100 LF
STATION TO STATION
4+38.00 TO 4+68.34 LT. & RT.
10+25.00 TO 11+07.00 LT. (0' -5' ESPLANADE)
11+07.00 TO 11+37.39 LT. & RT.
16+63.00 TO 16+93.21 LT. & RT.
21+60.00 TO 22+17.00 LT. (0' -5' ESPLANADE)
22+17.00 TO 22+47.65 LT. & RT.



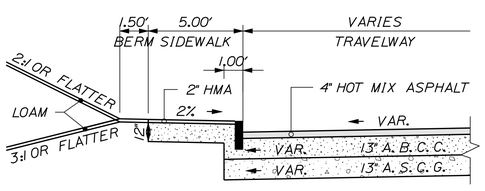
TRAVELWAY
13" A. B. C. C. = 4 CY/100 LF/FT OF WIDTH
13" A. S. C. G. = 4 CY/100 LF/FT OF WIDTH
STATION TO STATION
2+50.00 TO 3+75.43
4+36.43 TO 4+42.43
9+83.00 TO 9+91.68
11+04.80 TO 11+10.81
14+80.00 TO 16+09.20
16+60.72 TO 16+66.74
20+00.00 TO 21+63.05
22+15.65 TO 22+21.64



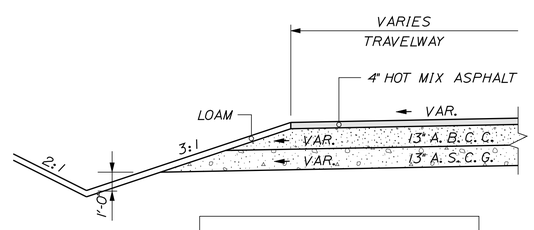
CURB
STATION TO STATION
15+75.00 TO 16+63.00 LT.
10+12.16 TO 11+07.00 LT.

NOTES:

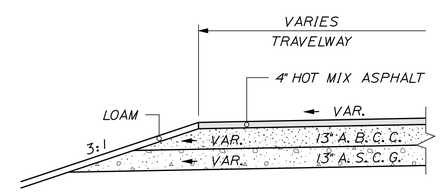
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE STATIONING UNDER EACH TYPICAL IS APPROXIMATE.
3. SEE THE GENERAL NOTES FOR LOAM DEPTHS.
4. A.B.C.C. STANDS FOR AGGREGATE BASE COURSE - CRUSHED.
5. A.S.C.G. STANDS FOR AGGREGATE SUBBASE COURSE - GRAVEL.



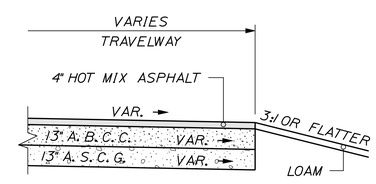
SIDEWALK
STATION TO STATION
20+00.00 TO 21+60.00 LT.
9+83.00 TO 10+25.00 LT.



DITCH
STATION TO STATION
2+50.00 TO 4+38.00 RT.



INSLOPE
STATION TO STATION
2+50.00 TO 4+38.00 LT.



BOX SECTION
STATION TO STATION
14+80.00 TO 15+75.00 LT.
14+80.00 TO 16+63.00 RT.
20+00.00 TO 22+17.00 RT.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

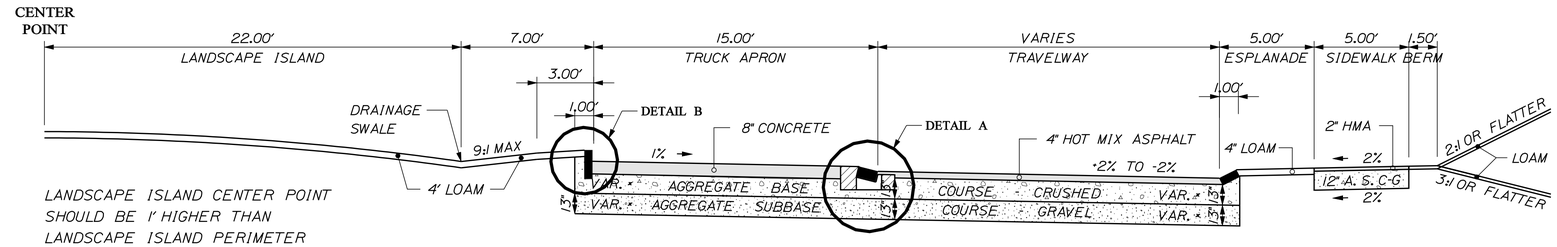
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

TYPICAL SECTIONS

SHEET NUMBER
2
OF 40

Filename: ...\msto\002_Typical01.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

CURB TYPE
▌ : CURB TYPE I
▬ : CURB TYPE 5



LANDSCAPE ISLAND CENTER POINT SHOULD BE 1' HIGHER THAN LANDSCAPE ISLAND PERIMETER HIGH POINT.

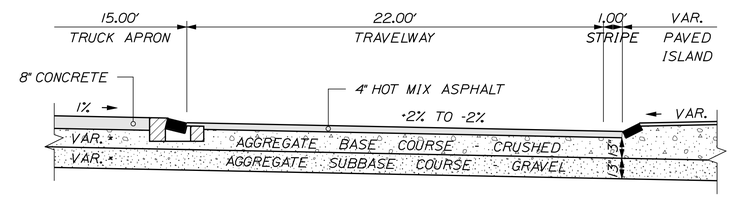
ROUNDABOUT

15' TRUCK APRON	TRAVELWAY
13" A. B. C. C. = 57.8 CY/100 LF	13" A. B. C. C. = 4 CY/100 LF/FT OF WIDTH
13" A. S. C. G. = 64.2 CY/100 LF	13" A. S. C. G. = 4 CY/100 LF/FT OF WIDTH

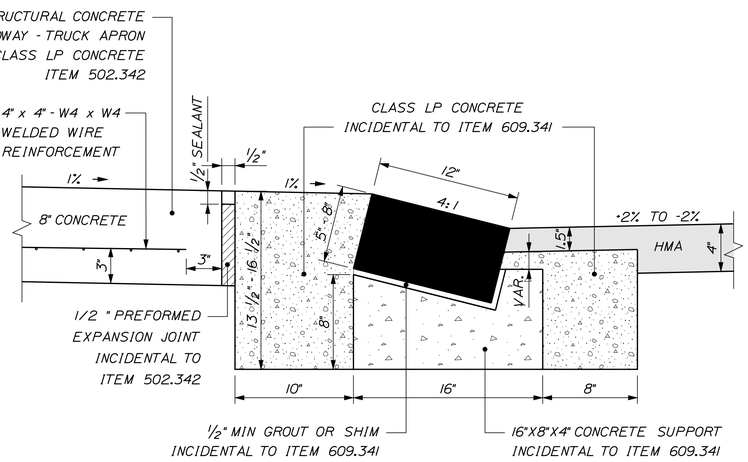
* SUBGRADE NOTE

TRAVELWAY SUBGRADE CROSS SLOPE SHALL BE PARALLEL TO THE SURFACE CROSS SLOPE. TRUCK APRON SUBGRADE CROSS SLOPE SHALL BE A STAIGHT LINE EXTENSION OF THE TRAVELWAY SUBGRADE.

GRAVEL DEPTH WILL VARY UNDER THE TRUCK APRON.

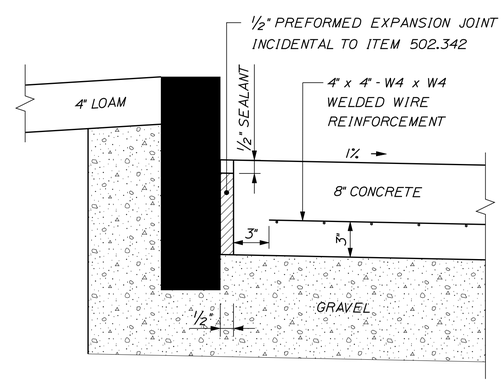


ROUNDABOUT WITH PAVED ISLAND



DETAIL A

SCALE 1:7.5



DETAIL B

SCALE 1:7.5

NOTES:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE STATIONING UNDER EACH TYPICAL IS APPROXIMATE.
3. SEE THE GENERAL NOTES FOR LOAM DEPTHS.
4. A.B.C.C. STANDS FOR AGGREGATE BASE COURSE - CRUSHED.
5. A.S.C.G. STANDS FOR AGGREGATE SUBBASE COURSE - GRAVEL.
6. CURB TYPE 5 - TRUCK APRON SHALL HAVE A 3 INCH CURB REVEAL.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

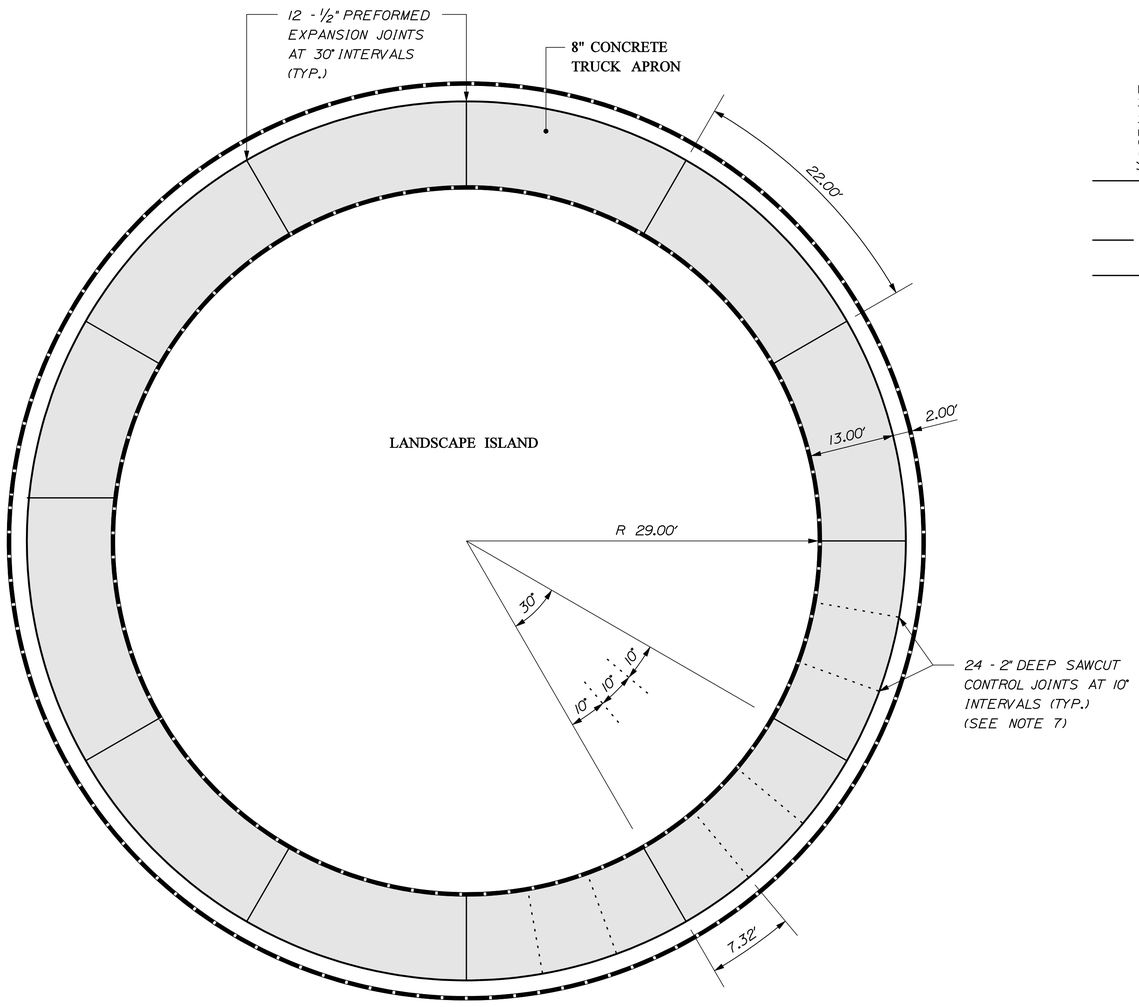
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

TYPICAL SECTIONS

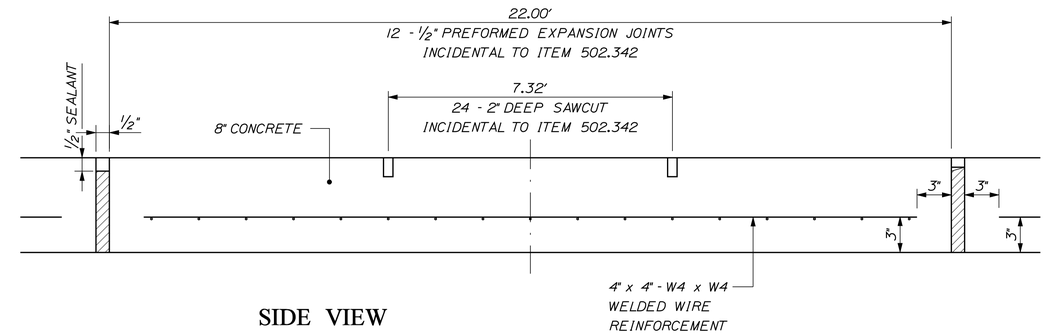
SHEET NUMBER
3
OF 40

Filename: ...\msta\003_Typical02.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

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 LP 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

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD	BY	
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----		-----
REVISIONS 2	-----		-----
REVISIONS 3	-----		-----
REVISIONS 4	-----		-----
FIELD CHANGES	-----		-----

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

TYPICAL SECTIONS

SHEET NUMBER
4
OF 40

Filename: ...\004_Truck Apron details.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	4	EA
201.24	REMOVING STUMP	5	EA
203.20	COMMON EXCAVATION	4,475	CY
203.25	GRANULAR BORROW	25	CY
304.09	AGGREGATE BASE COURSE - CRUSHED	2,140	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	2,310	CY
403.208	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM, SURFACE	375	T
403.209	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM (incidentals)	110	T
403.213	HOT MIX ASPHALT 12.5 mm NOMINAL MAXIMUM, BASE	600	T
409.15	BITUMINOUS TACK COAT, APPLIED	110	GA
502.342	STRUCTUAL CONCRETE ROADWAY - TRUCK APRON	75	CY
603.159	12 IN CULVERT PIPE OPT. III	131	LF
603.16	15 IN CULVERT PIPE OPT. I	65	LF
603.179	18 IN CULVERT PIPE OPT. III	262	LF
603.19	24 IN CULVERT PIPE OPT. I	63	LF
603.199	24 IN CULVERT PIPE OPT. III	52	LF
603.209	30 IN CULVERT PIPE OPT. III	178	LF
604.072	CATCH BASIN TYPE A1-C	2	EA
604.092	CATCH BASIN TYPE B1-C	7	EA
604.167	ALTER CATCH BASIN GRATE TO CASCADE GRATE	2	EA
604.244	CATCH BASIN TYPE F4	2	EA
605.09	6 IN UNDERDRAIN TYPE B	625	LF
605.13	18 IN UNDERDRAIN TYPE C	138	LF
608.26	CURB RAMP DETECTABLE WARNING FIELD	128	SF
609.11	VERTICAL CURB TYPE 1	442	LF
609.12	VERTICAL CURB TYPE 1- CIRCULAR	183	LF
609.234	TERMINAL CURB TYPE 1 - 4 FOOT	3	EA
609.237	TERMINAL CURB TYPE 1 - 7 FOOT	4	EA
609.31	CURB TYPE 3	10	LF
609.34	CURB TYPE 5	1,280	LF
609.35	CURB TYPE 5 - CIRCULAR	82	LF
609.341	CURB TYPE 5 TRUCK APRON	277	LF
610.08	PLAIN RIPRAP	225	CY
613.319	EROSION CONTROL BLANKET	150	SY
615.07	LOAM	250	CY
618.1301	SEEDING METHOD NUMBER 1 - PLAN QUANTITY	12	UN
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	15	UN
619.1201	MULCH - PLAN QUANTITY	23	UN
620.58	EROSION CONTROL GEOTEXTILE	32	SY
621.037	Evergreen Trees 5'- 6' Group A, B&B	3	EA
621.045	Evergreen Trees 6'- 8 ' Group A, B&B	1	EA
621.046	Evergreen Trees 8'- 10' Group A, B&B	1	EA
621.195	Med. Decid. Trees 1 3/4" - 2 " Group A Cont.	3	EA
621.387	Evergreen Shrubs 8"- 12" Group A Cont.	120	EA
621.389	Evergreen Shrubs 15 "- 18 " Group A Cont.	36	EA
621.395	Evergreen Shrubs 18"- 24" Group A Cont	18	EA
621.71	Herbaceous perennials Group A 1 Gallon Cont.	120	EA
621.80	Establishment Period Two-Year	1	LS
626.21	METALLIC CONDUIT	25	LF
626.22	NON-METALLIC CONDUIT	1,250	LF
626.32	24" FOUNDATION	12	EA
626.35	CONTROLLER CABINET FOUNDATION	1	EA
626.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	4,200	LF
627.744	6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	90	LF
627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	605	SF
627.76	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	1	LS
627.77	REMOVE PAVEMENT MARKING	380	SF
627.941	PREFORMED THERMOPLASTIC PAVMENT MARKING	140	SF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDES OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDES OPERATOR)	10	HR
631.18	CHAIN SAW RENTAL (INCLUDES OPERATOR)	10	HR
631.20	STUMP CHIPPER RENTAL (INCLUDES OPERATOR	10	HR
631.32	CULVERT CLEANER (INCLUDES OPERATOR	10	HR
634.16	HIGHWAY LIGHTING	1	LS
634.2042	LED LUMINAIRE	12	EA
634.21	CONVENTIONAL LIGHT STANDARD	12	EA
639.19	FIELD OFFICE, TYPE B	1	EA
645.103	DEMOUNT GUIDE SIGN	2	EA
645.106	DEMOUNT REG WARN CONF RTE SIGN	23	EA
645.113	REINSTALL GUIDE SIGN	2	EA
645.116	REINSTALL REG WARN CONF RTE SIGNS	23	EA
645.271	REG WARN CONF RTE SIGNS	80	SF
645.291	ROADSIDE GUIDE SIGNS TYPE II	12	SF
645.292	REG WARN CONF RTE SIGNS TYPE II	240	SF
652.31	TYPE 1 BARRICADE	10	EA
652.33	DRUMS	40	EA
652.34	CONES	75	EA
652.35	CONSTRUCTION SIGNS	750	SF
652.361	MAINT OF TRAFF CONTROL DEV	1	LS
652.38	FLAGGERS	6,000	HR
656.75	TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL	1	LS
658.20	ACRILIC LATEX FINISH, GREEN	340	SY
659.10	MOBILIZATION	1	LS
812.162	ADJUST SEWER MANHOLE TO GRADE	4	EA

EARTHWORK SUMMARY

COMMON EXCAVATION (FROM CROSS SECTIONS)	4,260	
EARTH FROM DRIVES, OLD ROAD, ETC.	85	
GRUBBING IN FILL	130	
LOAM SALVAGE IN FILL	0	
UNDERCUT	0	
MUCK EXCAVATION	0	
CULVERT INLET AND OUTLET DITCHES	0	
PAVEMENT SALVAGE IN FILL	0	
TOTAL COMMON EXCAVATION		4,475

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	615	
FILL FOR DRIVES	0	
GRUBBING IN FILL	130	
LOAM SALVAGE IN FILL	0	
UNDERCUT	0	
MUCK EXCAVATION	0	
PAVEMENT SALVAGE IN FILL	0	
TOTAL FILL		745

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION (FROM CROSS SECTIONS)	0	
ROCK EXCAVATION (BOULDERS)	0	
TOTAL ROCK EXCAVATION		0

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		4,475
DEDUCTIONS:		
GRUBBING IN CUT	0	
GRUBBING IN FILL	130	
LOAM SALVAGE IN CUT	0	
LOAM SALVAGE IN FILL	0	
UNDERCUT	0	
MUCK EXCAVATION	0	
PAVEMENT SALVAGE (CUT & FILL)	580	
(2) TOTAL DEDUCTIONS		710
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		3,765
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		215
TOTAL AVAILABLE NON-ROCK EXCAVATION		3,980

COMPUTATION OF WASTE MATERIAL

GRUBBING IN CUT	220	
GRUBBING IN FILL	130	
TOTAL WASTE MATERIAL TO BE WASTED		350

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL			745
TOTAL AVAIL. NON-ROCK EXCAV.	3,980	3,383	
TOTAL AVAIL. ROCK EXCAV.	0	0	
TOTAL AVAIL. STR. ROCK EXCAV.	0	0	
(4)TOTAL AVAILABLE EXCAVATION			3,383
SURPLUS AVAILABLE EXCAVATION = TOTAL AVAILABLE EXCAVATION MINUS TOTAL FILL			2,638
TOTAL SURPLUS MATERIAL = SURPLUS AVAILABLE EXCAVATION PLUS TOTAL WASTE MATERIAL TO BE WASTED			2,988

SURPLUS MATERIAL = 2988

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	M.SWINDELLS	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

ESTIMATED QUANTITIES

SHEET NUMBER
5
OF 40

Filename: ...\HIGHWAY\MSTA\005_Estimate.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/29/2012

STATION	CULVERT PIPE											CATCH BASIN					PIPE ARCH				MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III														TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED										GAGE OR WALL THICKNESS		TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C		E	F	SPAN	RISE	LENGTH			LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
CATCH BASINS																													
STA 11+46.91, 37.69' LT. (CB#5)													1																
STA 11+47.96, 48.22' RT. (CB#4)													1																
STA 17+41.75, 40.69' LT.(CB#2)													1																
STA 17+50.11, 43.91' RT (CB#3)													1																F4
STA 11+84.95, 9.27' LT. (CB#5A)																1													F4
STA 14+93.90, 22.98' RT. (CB#8)																1													
STA 16+52.10, 19.85' LT. (CB#1)												1																	
STA 21+53.57, 18.97' LT. (CB#6)												1																	
STA 21+55.69, 13.96' RT. (CB#7)													1																
STA 22+26.57, 19.45' RT. (CB#3A)													1																
STA 22+26.60, 10.59' LT. (CB3B)													1																
CULVERTS																													
STA 2+54.50, 24.69' RT. TO 2+86.56, 25.35'RT.						15"	32.0'																						
STA 3+17.23, 26.98' LT. TO 3+17.32, 24.08' RT.								24"	52.0'	30"	52.0'																		
STA 3+31.79, 26.42' RT. TO 3+63.47, 27.21' RT.						15"	32.0'																						
CB#4 TO CB#5								12"	82.9'	15"	82.9'																		
CB#5 TO CB#5A								12"	47.5	15"	47.5																		
STA 14+92.71, 18.74' RT. TO 15+54.92, 23.89' RT.						24"	62.6'																					COUPLER/REDUCING TEE	SEE GENERAL NOTES
CB#1 TO CB#3								18"	110.0'	21"	110.0'																		
CB#2 TO CB#3								18"	83.0'	21"	83.0'																		
CB#3 TO CB#3B								18"	42.0'	21"	42.0'																		
CB#3B TO CB#3A								18"	27.0'	21"	27.0'																		
STA 21+52.47, 37.08' LT. TO CB#6								30"	16.6'	36"	16.6'																		
CB#6 TO CB#7								30"	30.0'	36"	30.0'																		
CB#7 TO STA 21+63.78, 146.57' RT.								30"	131.4'	36"	131.4'																		
UNDERDRAIN																													
STA 3+94.48, 18.14' LT. TO CB#4 LT.																						101.7'							
STA 15+10.04, 13.41' LT. TO CB#1 LT.																						139.4'							
STA 17+15.53, 45.78' LT. TO CB#1 LT.																						73.5'							
STA 20+00, 14.00' LT. TO CB#6 LT.																						150.7'							
STA 20+50, 15.38' RT. TO CB#7 RT.																						102.7'							
STA 22+10.00, 25.22' LT. TO CB#6 LT.																						55.0'							
CB#5 TO CB#3A RT.																								18"	69.0'	21"	69.0'		
CB#3A TO CB#7 RT.																								18"	69.0'	21"	69.0'		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	M.SWINDELLS	
DESIGN2-DETAILED2	------	
DESIGN3-DETAILED3	------	
REVISIONS 1	------	
REVISIONS 2	------	
REVISIONS 3	------	
REVISIONS 4	------	
FIELD CHANGES	------	

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

DRAINAGE SHEET

SHEET NUMBER
6
OF 40

Filename: ...\highway\msto\006_Drainage.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
FAIRPOINT, BANGOR HYDRO, TIME WARNER, AND THE TOWN OF BLUE HILL.

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.

3. CLEARING LIMITS SHALL BE 5' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

4. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

5. STUMPS HAVE BEEN ESTIMATED TO BE REMOVED UNDER ITEM 201.24 REMOVE STUMP. HOWEVER, WHERE DIRECTED BY THE RESIDENT, ITEM 631.20 STUMP CHIPPER RENTAL, MAY BE USED TO REMOVE STUMPS.

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

7. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN APPROVED WASTE AREAS.

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

9. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

10. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL.

11. COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 3" HOT MIX ASPHALT AND 11" AGGREGATE SUBBASE COURSE GRAVEL.

12. ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL CULVERT EXTENSIONS SHALL BE INCIDENTAL TO 603 ITEMS.

13. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. UNDER THE APPROPRIATE PAY ITEMS.

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

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

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

17. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 604.

18. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO ALLOW FOR PROPOSED PIPE CONNECTIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 603 OR 605.

19. CATCH BASIN GRATE ELEVATIONS LISTED ARE AT THE BACK OF THE GRATE, CATCH BASIN OFFSETS LISTED ARE AT THE CENTER OF THE GRATE.

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

21. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL SLOPES.

22. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN ESPLANADE, CENTRAL ISLAND, AND LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

23. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF ITEM 627.76.

24. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK; IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

25. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL SIDE STAKING OF EXISTING CENTERLINE AS PER STANDARD SPECIFICATION 105.6.2.
SIDE STAKES SHALL BE PLACED SAFELY OUTSIDE OF THE CONSTRUCTION LIMITS AND THE EXISTING CENTERLINE GRADES SHALL BE TRANSFERRED TO THESE STAKES.THESE STAKES AND GRADES WILL BE USED TO LAYOUT CENTERLINE AND DETERMINE NEW CONSTRUCTION FINISH GRADES FROM DIFFERENTIAL ELEVATION SHEETS FURNISHED BY MAINEDOT. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT.

26. 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.

27. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

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

29. STATIONS REFERENCED ARE APPROXIMATE.

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

31. THE CONTRACTOR WILL FINAL STRIPE THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR TRANSFERRING THE EXISTING STRIPING PATTERN TO THE SURFACE COURSE.

32. PEDESTRIAN RAMPS AND CROSS WALKS SHALL BE A MINIMIUM OF SIX FEET WIDE.

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

34. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT. ESTIMATED GRUBBING DEPTHS ARE 6 INCHES IN FIELD AREAS AND 6 INCHES IN WOODED AREAS.

35. A COPY OF THE GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE FOUND WITH THE PROJECT BID DOCUMENTS ON THE MAINE DOT WEBSITE OR BY CONTACTING THE PROJECT MANAGER.

36. A 24 INCH COUPLER AND A 24 INCH TO 12 INCH REDUCING TEE WILL BE INSTALLED AS DIRECTED BY THE RESIDENT NEAR CATCH BASIN #8. THE EXISTING CORRUGATED METAL PIPE IS TOO SHALLOW TO TIE DIRECTLY INTO THE F BASIN. PAYMENT WILL BE UNDER APPROPRIATE DRAINAGE ITEMS AS DIRECTED IN THE STANDARD SPECIFICATIONS.

Filename: ...\msta\007_GeneralNotes.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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FIELD CHANGES	------	------	------

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BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

GENERAL NOTES

SHEET NUMBER

CONSTRUCTION NOTES

ITEM 201.23 REMOVING SINGLE TREE - TOP ONLY
ITEM 201.24 REMOVING STUMP

Station	Offset	Lt. or Rt.	Size	Type	Each
10+79.94	37.00	LT	16"	OAK	1
11+30.00	33.32	LT	36"	STUMP	1
11+36.32	38.07	LT	12"	SPRUCE	1
20+86.38	22.29	RT	24"	MAPLE	1
21+38.27	22.31	RT	24"	TWIN MAPLE	1

DRIVES AND ENTRANCES

Station	Type	Entrance Width
2+71.18 RT	PAVED	30.0FT
3+47.90 RT	PAVED	30.0FT
15+25.00 RT	PAVED	40.0FT
20+60.74 RT	PAVED	37.0FT

ITEM 604.167 ALTER CATCH BASIN GRATE TO CASCADE GRATE

Station	Offset	Lt. or Rt.	Each	
10+10.73	17.04	LT	1	CB #9
10+10.16	18.69	RT	1	CB #10

ITEM 608.26 CURB DETECTABLE WARNING FIELD

Station	Offset	Lt. or Rt.	SF Area	
16+63.51	4.11	LT	8	
16+60.14	23.64	LT	8	*
16+64.00	3.30	RT	8	
16+59.47	23.71	RT	8	*
4+34.83	25.94	LT	8	*
4+39.16	3.76	LT	8	
4+39.56	1.45	RT	8	
4+34.83	20.89	RT	8	*
11+03.80	26.38	LT	8	*
11+07.96	6.93	LT	8	
11+07.74	0.95	RT	8	
11+03.65	21.21	LT	8	*
22+13.82	27.95	LT	8	*
22+18.65	7.27	LT	8	
22+18.74	3.44	RT	8	
22+13.78	17.71	RT	8	*
* CONSTRUCT ADA COMPLIANT PEDESTRIAN RAMP				

ITEM 610.08 PLAIN RIPRAP

Station	Offset	
3+17	RT	CULVERT END TREATMENT
3+19	LT	CULVERT END TREATMENT
21+55	RT	CULVERT END TREATMENT
21+55	LT	CULVERT END TREATMENT

ITEM 613.319 EROSION CONTROL BLANKET

STA 2+87.00 RT TO STA 3+13.80 RT
STA 3+21.60 RT TO STA 3+31.70 RT
STA 3+66.10 RT TO STA 4+19.40 RT
STA 15+55.00 RT TO STA 15+65.00 RT
STA 20+77.20 LT TO STA 21+47.90 LT
STA 21+57.30 LT TO STA 22+62.80 LT

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SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

CONSTRUCTION NOTES

SHEET NUMBER
8
OF 40

Filename: ...\008_Construction Notes.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

GENERAL NOTES - HIGHWAY LIGHTING

1. SCOPE OF WORK - INSTALL HIGHWAY LIGHTING AS SHOWN ON THIS PLAN. INSTALL SERVICE, CONDUIT, FOUNDATIONS, POLES AND L.E.D. LUMINAIRES.
2. 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 UTILITY COMPANY.
3. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS TO AVOID NATURAL AND BUILT SITE FEATURES THAT WOULD CONFLICT WITH PROPER INSTALLATION OF POLE FOUNDATIONS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ENSURE AWARENESS OF SITE CONDITIONS THAT COULD AFFECT THE BID.
5. FIXTURES SHALL BE IES FULL CUTOFF, INDIRECT VIEW LIGHT EMITTING DIODE (LED) FIXTURES. IES DISTRIBUTION TYPE SHALL BE AS SHOWN ON PLANS. FIXTURE VOLTAGE SHALL BE 240 VOLTS.
6. INSTALL LIGHTING FIXTURES ON 35-FOOT POLES WITH A MINIMAL LENGTH HORIZONTAL 2" DIAMETER PIPE TENON. POLES MAY BE EITHER ALUMINUM OR GALVANIZED STEEL.
7. ALL FIXTURES SHALL BE GASKETED, HAVE AN EXTENDED LIFE DRIVER, SURGE PROTECTION, A DOUBLE FUSE KIT, 240V TWIST-OFF PHOTO CONTROL, AND A NEMA TWIST OFF PHOTO CONTROL RECEPTACLE. ALL FIXTURES SHALL BE GRAY.
8. THE LIGHTING LAYOUT WAS DONE USING HOLOPHANE LEDGEND LED ROADWAY LIGHTING LUMINAIRES, CATALOG NUMBERS:
   LEDG 120 35 6K AS G L3 EL PCS R F2; 4 - TYPE 3 FIXTURES
   LEDG 072 35 6K AS G L3 EL PCS R F2; 8 - TYPE 3 FIXTURES
IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE IES FULL CUTOFF, TYPE 2 OR 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.
9. WIRE SIZE SHALL BE 3 WIRE STRANDED COPPER #12, XHHW-2.
10. 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 ELECTRONIC 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 ANALYSIS AREAS, 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, PHOTOCONTROL, SURGE PROTECTION, HOUSING AND GASKETING.
11. CONDUIT SHALL BE 2" MINIMUM, PVC SCHEDULE 40. CONDUIT UNDER PAVEMENT SHALL BE SCHEDULE 80. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 36".
12. THERE SHALL BE NO SPLICES OR JUNCTION BOXES BETWEEN POLES, UNLESS NOTED. THE WIRE IN CONDUITS SHALL BE CONTINUOUS BETWEEN POLES.
13. IF STRUCTURAL ROCK IS ENCOUNTERED DURING INSTALLATION OF FOUNDATIONS, PAYMENT FOR EXCAVATION AND DOWELING REINFORCING INTO ROCK SHALL BE CONSIDERED INCIDENTAL TO FOUNDATION ITEMS.

GENERAL NOTES - Continued

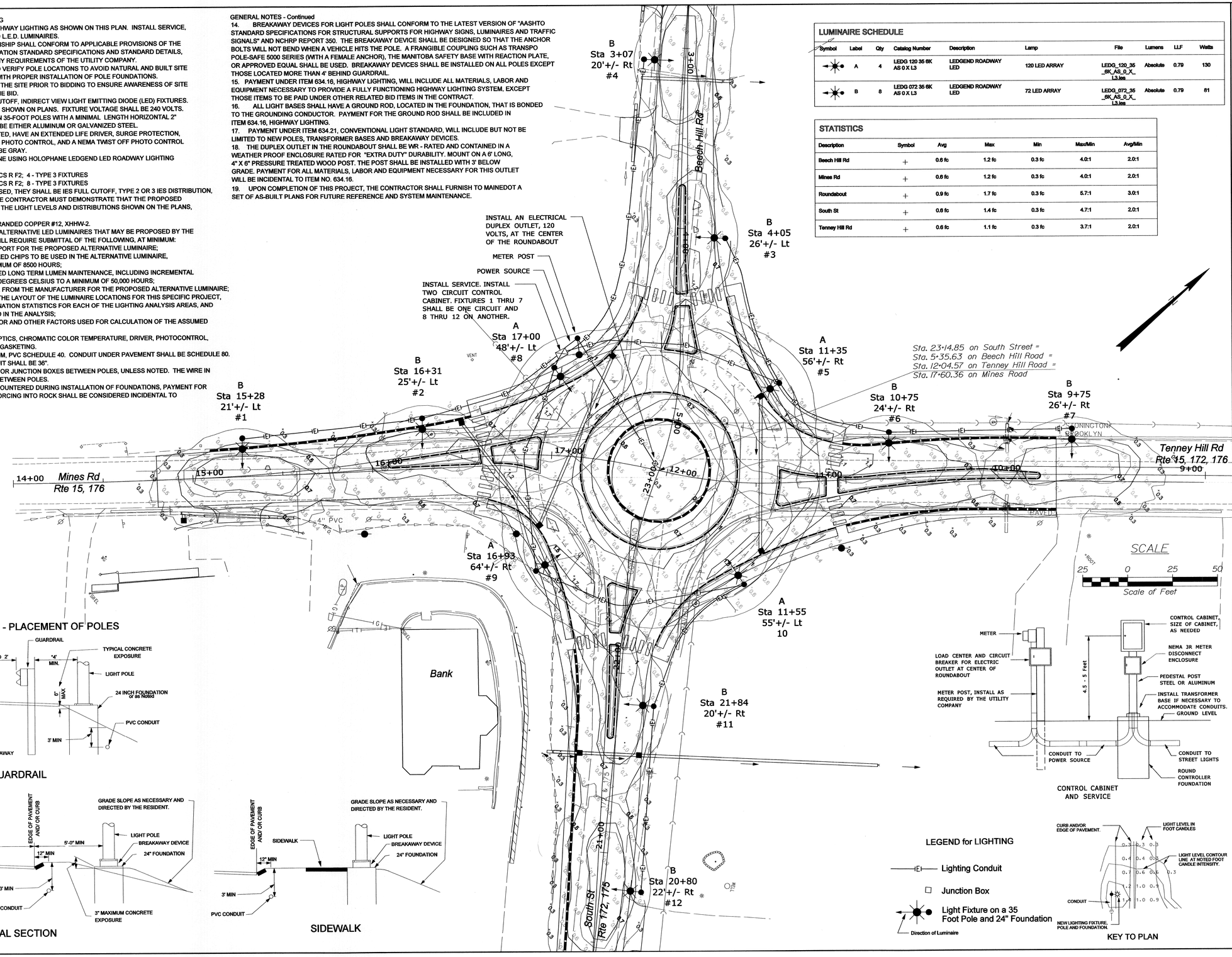
14. BREAKAWAY DEVICES FOR LIGHT POLES SHALL CONFORM TO THE LATEST VERSION OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND NCHRP REPORT 350. THE BREAKAWAY DEVICE SHALL BE DESIGNED SO THAT THE ANCHOR BOLTS WILL NOT BEND WHEN A VEHICLE HITS 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.
15. 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.
16. 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.
17. PAYMENT UNDER ITEM 634.21, CONVENTIONAL LIGHT STANDARD, WILL INCLUDE BUT NOT BE LIMITED TO NEW POLES, TRANSFORMER BASES AND BREAKAWAY DEVICES.
18. THE DUPLEX OUTLET IN THE ROUNDABOUT SHALL BE WR - RATED AND CONTAINED IN A WEATHER PROOF ENCLOSURE RATED FOR "EXTRA DUTY" DURABILITY. MOUNT ON A 6' LONG, 4" X 6" PRESSURE TREATED WOOD POST. THE POST SHALL BE INSTALLED WITH 3' BELOW GRADE. PAYMENT FOR ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR THIS OUTLET WILL BE INCIDENTAL TO ITEM NO. 634.16.
19. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO MAINEDOT A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.

LUMINAIRE SCHEDULE

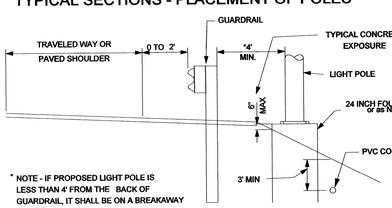
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	A	4	LEDG 120 35 6K AS G L3	LEDGEND ROADWAY LED	120 LED ARRAY	LEDG_120_35_6K_AS_G_X_L3.ies	Absolute	0.79	130
	B	8	LEDG 072 35 6K AS G L3	LEDGEND ROADWAY LED	72 LED ARRAY	LEDG_072_35_6K_AS_G_X_L3.ies	Absolute	0.79	81

STATISTICS

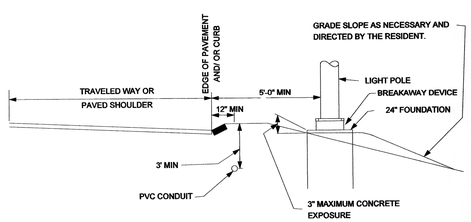
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Beech Hill Rd	+	0.6 fc	1.2 fc	0.3 fc	4.0:1	2.0:1
Mines Rd	+	0.6 fc	1.2 fc	0.3 fc	4.0:1	2.0:1
Roundabout	+	0.9 fc	1.7 fc	0.3 fc	5.7:1	3.0:1
South St	+	0.6 fc	1.4 fc	0.3 fc	4.7:1	2.0:1
Tenney Hill Rd	+	0.6 fc	1.1 fc	0.3 fc	3.7:1	2.0:1



TYPICAL SECTIONS - PLACEMENT OF POLES



GUARDRAIL



NORMAL SECTION

SIDEWALK

CONTROL CABINET AND SERVICE

LEGEND for LIGHTING

- Lighting Conduit
- Junction Box
- Light Fixture on a 35 Foot Pole and 24" Foundation — Direction of Luminaire

KEY TO PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP - 1725(800)X

WIN 17258.00

HIGHWAY PLANS

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

SIGNATURE 4226
P.E. NUMBER
OCTOBER 16, 2012
DATE

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	RAL	Sept '12
CHECKED-REVIEWED	ALG	Sept '12
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BLUE HILL
Rte 15, 172, 175 & 176

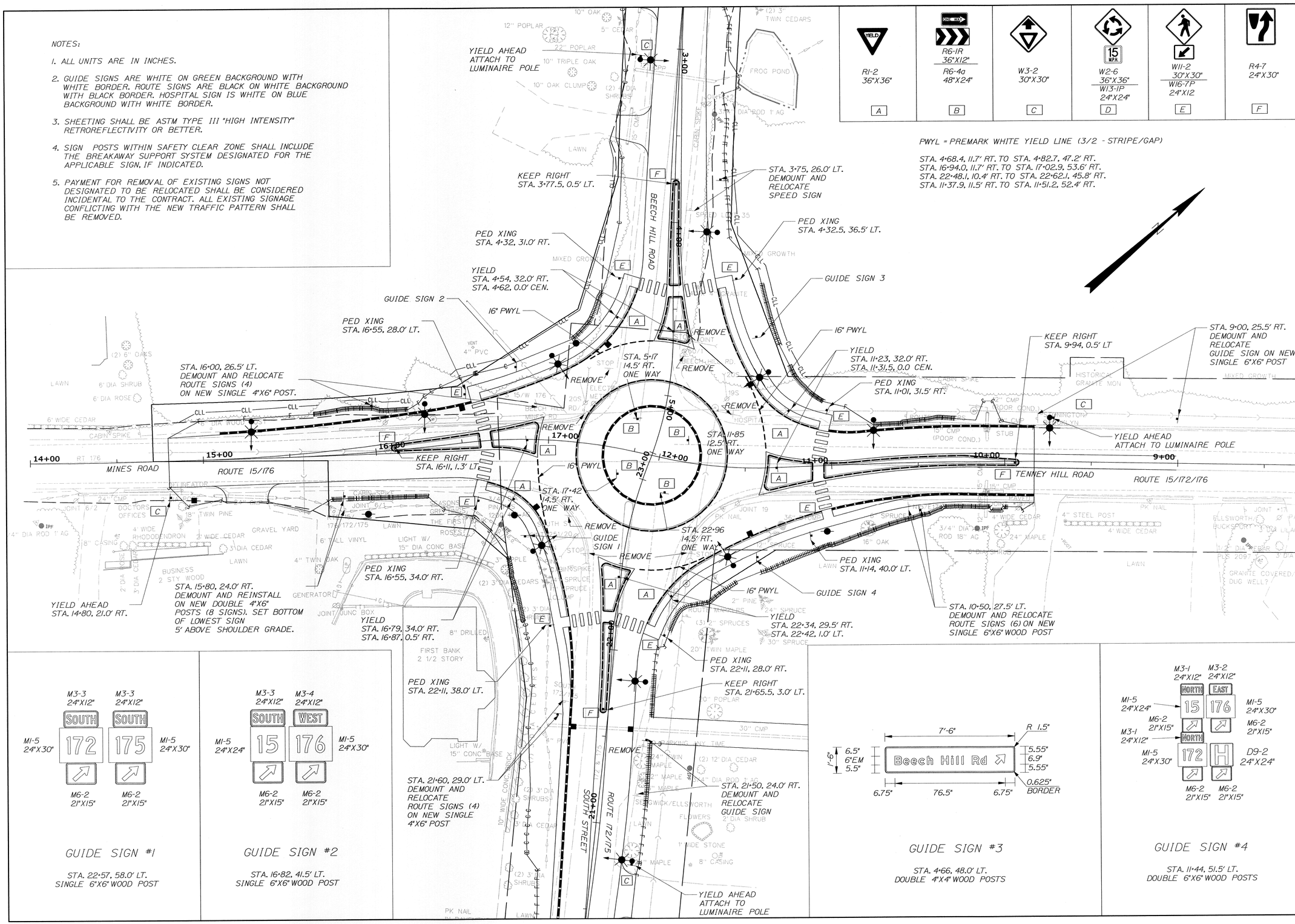
HIGHWAY LIGHTING

SHEET NUMBER
9
OF 40

Date:10/16/2012 Username: jeason Division: HIGHWAY Filename: ...\Lighting\009_LightPlanSht.dgn

NOTES:

1. ALL UNITS ARE IN INCHES.
2. GUIDE SIGNS ARE WHITE ON GREEN BACKGROUND WITH WHITE BORDER. ROUTE SIGNS ARE BLACK ON WHITE BACKGROUND WITH BLACK BORDER. HOSPITAL SIGN IS WHITE ON BLUE BACKGROUND WITH WHITE BORDER.
3. SHEETING SHALL BE ASTM TYPE III "HIGH INTENSITY" RETROREFLECTIVITY OR BETTER.
4. SIGN POSTS WITHIN SAFETY CLEAR ZONE SHALL INCLUDE THE BREAKAWAY SUPPORT SYSTEM DESIGNATED FOR THE APPLICABLE SIGN. IF INDICATED.
5. PAYMENT FOR REMOVAL OF EXISTING SIGNS NOT DESIGNATED TO BE RELOCATED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL EXISTING SIGNAGE CONFLICTING WITH THE NEW TRAFFIC PATTERN SHALL BE REMOVED.



PWYL = PREMARK WHITE YIELD LINE (3/2 - STRIPE/GAP)

STA. 4+68.4, 11.7' RT. TO STA. 4+82.7, 47.2' RT.
STA. 16+94.0, 11.7' RT. TO STA. 17+02.9, 53.6' RT.
STA. 22+48.1, 10.4' RT. TO STA. 22+62.1, 45.8' RT.
STA. 11+37.9, 11.5' RT. TO STA. 11+51.2, 52.4' RT.

A	B	C	D	E	F
R1-2 36"X36"	R6-1R 36"X12" / R6-4a 48"X24"	W3-2 30"X30"	W2-6 36"X36" / W13-1P 24"X24"	W11-2 30"X30" / W16-7P 24"X12"	R4-7 24"X30"

GUIDE SIGN #1

STA. 22+57, 58.0' LT.
SINGLE 6"X6" WOOD POST

GUIDE SIGN #2

STA. 16+82, 41.5' LT.
SINGLE 6"X6" WOOD POST

GUIDE SIGN #3

STA. 4+66, 48.0' LT.
DOUBLE 4"X4" WOOD POSTS

GUIDE SIGN #4

STA. 11+44, 51.5' LT.
DOUBLE 6"X6" WOOD POSTS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

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

SIGNATURE		
7960	P.E. NUMBER	
OCTOBER 16, 2012	DATE	

		DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	JLE	10-12
CHECKED-REVIEWED	ALG	10-12
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

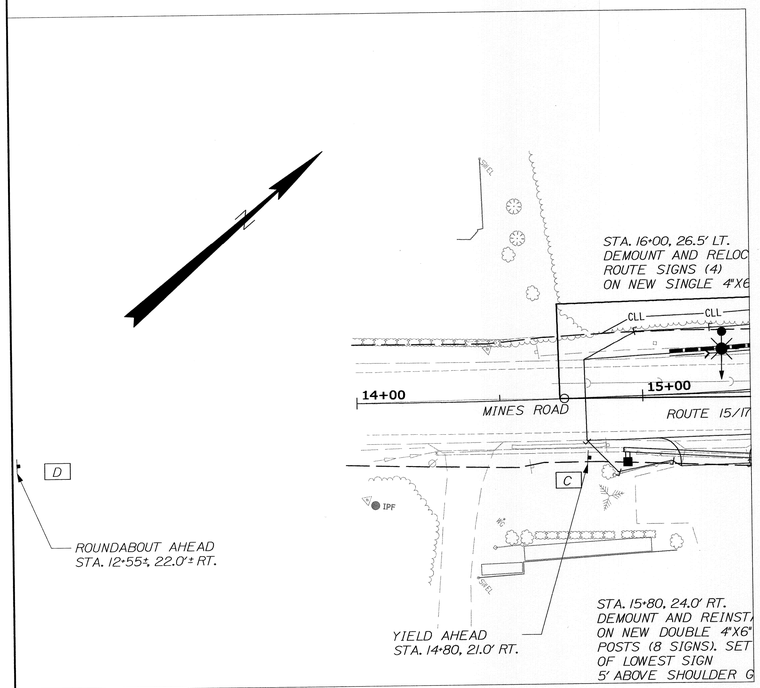
BLUE HILL
Rte 15, 172, 175 & 176
SIGNING PLANS

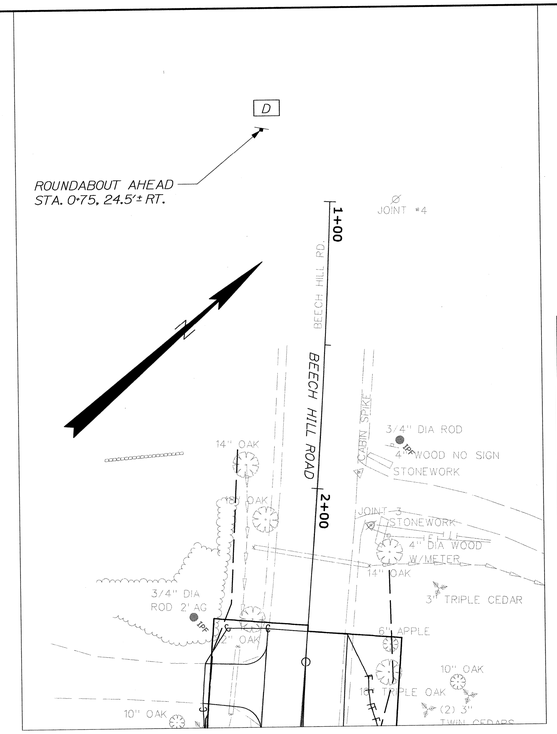
SHEET NUMBER

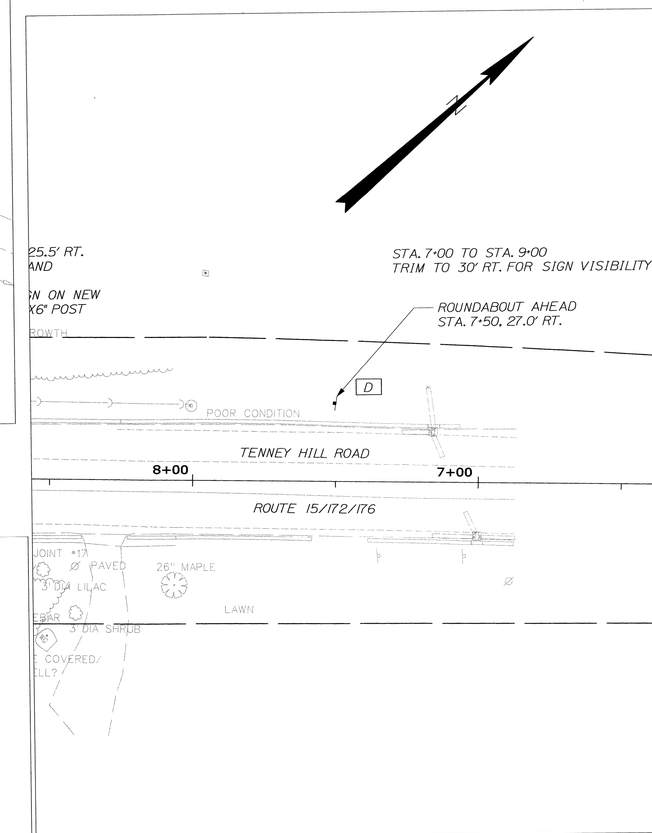
10

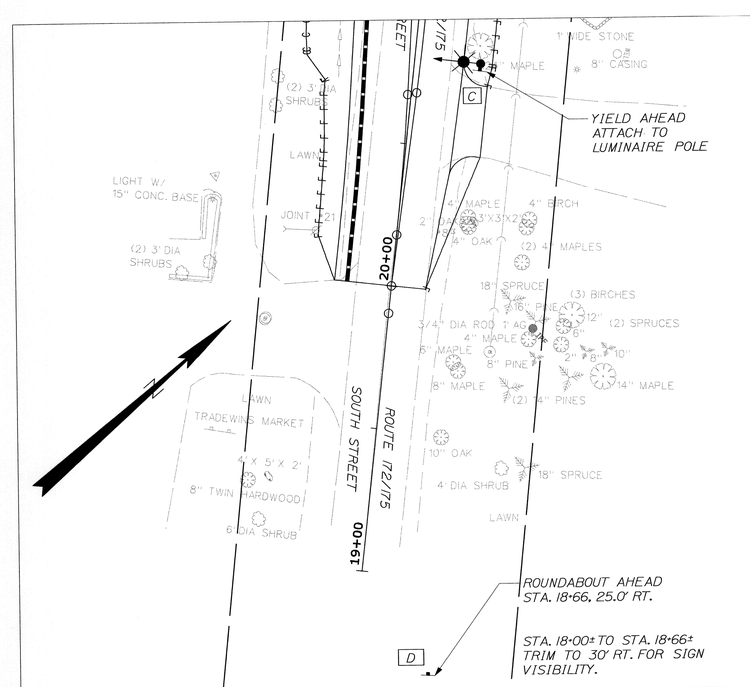
OF 40

Filename: ...\MSTA\010_SignPlan_01.dgn Division: HIGHWAY Username: jeason Date:10/16/2012









STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

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

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED		JLE	10-12
CHECKED-REVIEWED		JLE	10-12
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
OCTOBER 16, 2012
DATE

BLUE HILL
Rte 15, 172, 175 & 176

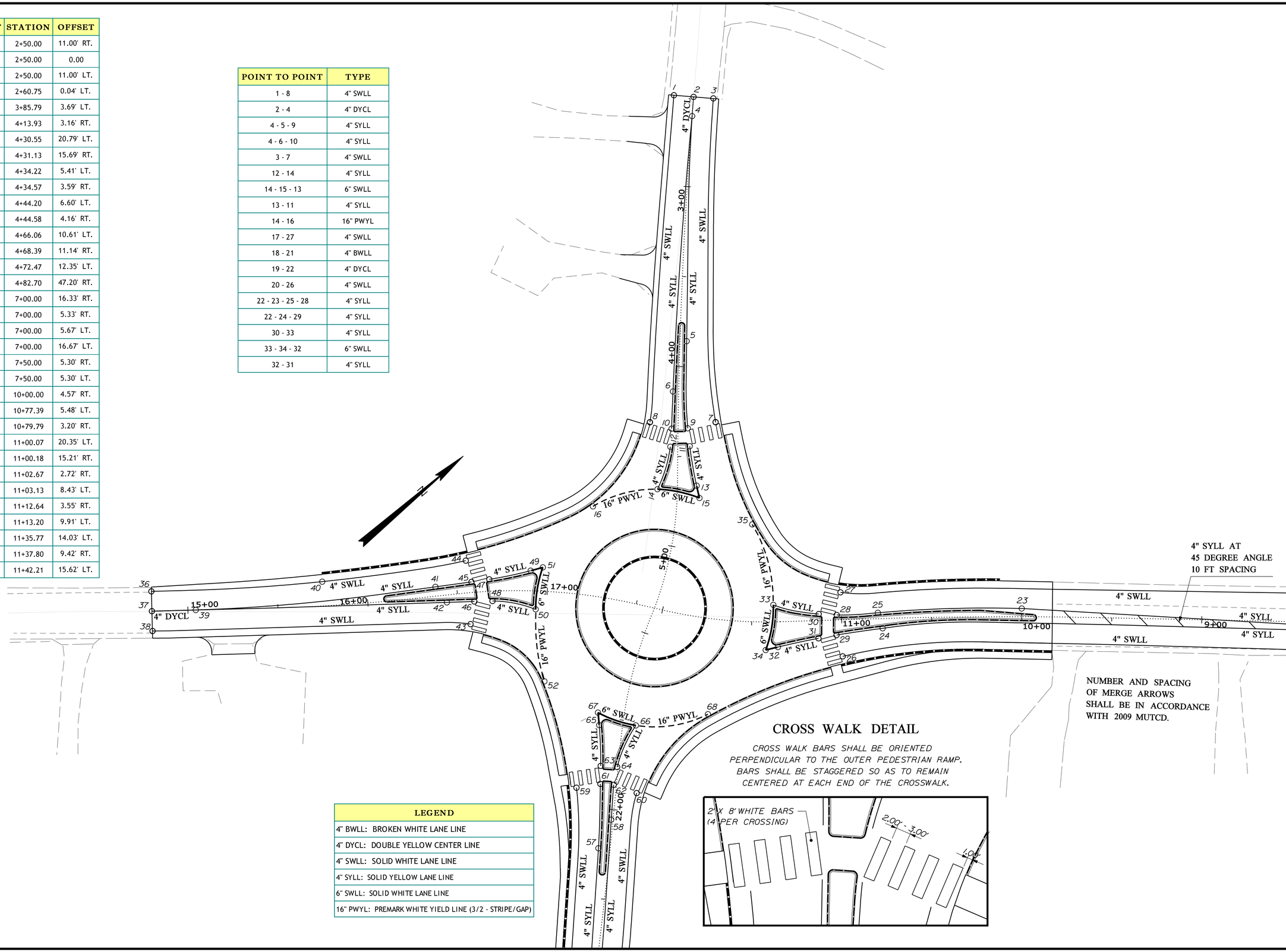
SIGNING PLANS

SHEET NUMBER
11
OF 40

Filename: ...\MSTA\011_SignPlan_02.dgn Division: HIGHWAY Username: jeason Date:10/16/2012

POINT	STATION	OFFSET
1	2+50.00	11.00' RT.
2	2+50.00	0.00
3	2+50.00	11.00' LT.
4	2+60.75	0.04' LT.
5	3+85.79	3.69' LT.
6	4+13.93	3.16' RT.
7	4+30.55	20.79' LT.
8	4+31.13	15.69' RT.
9	4+34.22	5.41' LT.
10	4+34.57	3.59' RT.
11	4+44.20	6.60' LT.
12	4+44.58	4.16' RT.
13	4+66.06	10.61' LT.
14	4+68.39	11.14' RT.
15	4+72.47	12.35' LT.
16	4+82.70	47.20' RT.
17	7+00.00	16.33' RT.
18	7+00.00	5.33' RT.
19	7+00.00	5.67' LT.
20	7+00.00	16.67' LT.
21	7+50.00	5.30' RT.
22	7+50.00	5.30' LT.
23	10+00.00	4.57' RT.
24	10+77.39	5.48' LT.
25	10+79.79	3.20' RT.
26	11+00.07	20.35' LT.
27	11+00.18	15.21' RT.
28	11+02.67	2.72' RT.
29	11+03.13	8.43' LT.
30	11+12.64	3.55' RT.
31	11+13.20	9.91' LT.
32	11+35.77	14.03' LT.
33	11+37.80	9.42' RT.
34	11+42.21	15.62' LT.

POINT TO POINT	TYPE
1 - 8	4" SWLL
2 - 4	4" DYCL
4 - 5 - 9	4" SYLL
4 - 6 - 10	4" SYLL
3 - 7	4" SWLL
12 - 14	4" SYLL
14 - 15 - 13	6" SWLL
13 - 11	4" SYLL
14 - 16	16" PWYL
17 - 27	4" SWLL
18 - 21	4" BWLL
19 - 22	4" DYCL
20 - 26	4" SWLL
22 - 23 - 25 - 28	4" SYLL
22 - 24 - 29	4" SYLL
30 - 33	4" SYLL
33 - 34 - 32	6" SWLL
32 - 31	4" SYLL



CROSS WALK DETAIL

CROSS WALK BARS SHALL BE ORIENTED PERPENDICULAR TO THE OUTER PEDESTRIAN RAMP. BARS SHALL BE STAGGERED SO AS TO REMAIN CENTERED AT EACH END OF THE CROSSWALK.

LEGEND
4" BWLL: BROKEN WHITE LANE LINE
4" DYCL: DOUBLE YELLOW CENTER LINE
4" SWLL: SOLID WHITE LANE LINE
4" SYLL: SOLID YELLOW LANE LINE
6" SWLL: SOLID WHITE LANE LINE
16" PWYL: PREMARK WHITE YIELD LINE (3/2 - STRIPE/GAP)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

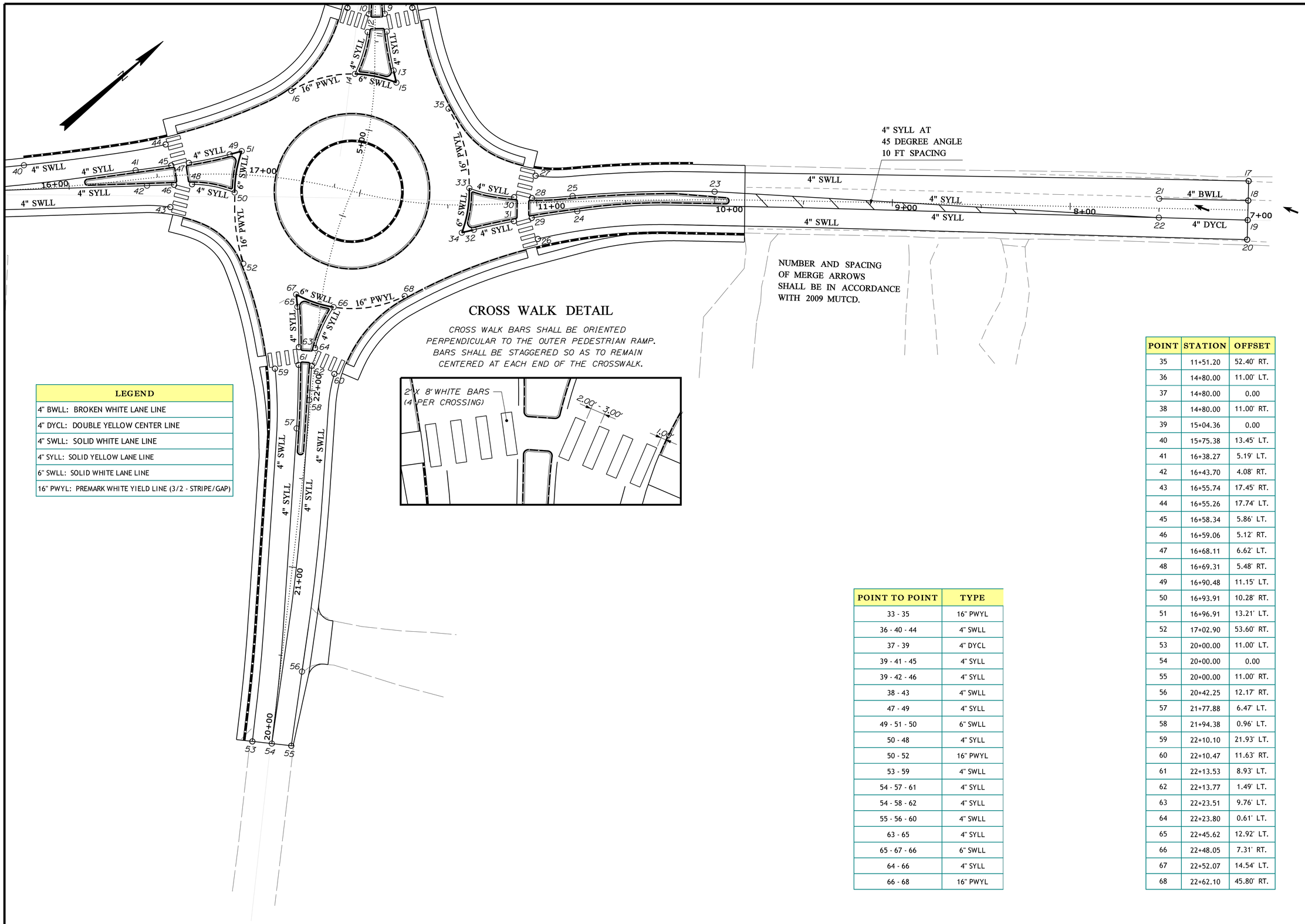
DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

STRIPING PLANS

SHEET NUMBER
12
OF 40

Filename: ...\msto\012_Striping Plan_001.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



LEGEND
4" BWLL: BROKEN WHITE LANE LINE
4" DYCL: DOUBLE YELLOW CENTER LINE
4" SWLL: SOLID WHITE LANE LINE
4" SYLL: SOLID YELLOW LANE LINE
6" SWLL: SOLID WHITE LANE LINE
16" PWYL: PREMARK WHITE YIELD LINE (3/2 - STRIPE/GAP)

POINT TO POINT	TYPE
33 - 35	16" PWYL
36 - 40 - 44	4" SWLL
37 - 39	4" DYCL
39 - 41 - 45	4" SYLL
39 - 42 - 46	4" SYLL
38 - 43	4" SWLL
47 - 49	4" SYLL
49 - 51 - 50	6" SWLL
50 - 48	4" SYLL
50 - 52	16" PWYL
53 - 59	4" SWLL
54 - 57 - 61	4" SYLL
54 - 58 - 62	4" SYLL
55 - 56 - 60	4" SWLL
63 - 65	4" SYLL
65 - 67 - 66	6" SWLL
64 - 66	4" SYLL
66 - 68	16" PWYL

POINT	STATION	OFFSET
35	11+51.20	52.40' RT.
36	14+80.00	11.00' LT.
37	14+80.00	0.00
38	14+80.00	11.00' RT.
39	15+04.36	0.00
40	15+75.38	13.45' LT.
41	16+38.27	5.19' LT.
42	16+43.70	4.08' RT.
43	16+55.74	17.45' RT.
44	16+55.26	17.74' LT.
45	16+58.34	5.86' LT.
46	16+59.06	5.12' RT.
47	16+68.11	6.62' LT.
48	16+69.31	5.48' RT.
49	16+90.48	11.15' LT.
50	16+93.91	10.28' RT.
51	16+96.91	13.21' LT.
52	17+02.90	53.60' RT.
53	20+00.00	11.00' LT.
54	20+00.00	0.00
55	20+00.00	11.00' RT.
56	20+42.25	12.17' RT.
57	21+77.88	6.47' LT.
58	21+94.38	0.96' LT.
59	22+10.10	21.93' LT.
60	22+10.47	11.63' RT.
61	22+13.53	8.93' LT.
62	22+13.77	1.49' LT.
63	22+23.51	9.76' LT.
64	22+23.80	0.61' LT.
65	22+45.62	12.92' LT.
66	22+48.05	7.31' RT.
67	22+52.07	14.54' LT.
68	22+62.10	45.80' RT.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD	BT TRAN	11/2012
DESIGN-DETAILED	A. MOUSSEAU		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

STRIPING PLANS

SHEET NUMBER
13
OF 40

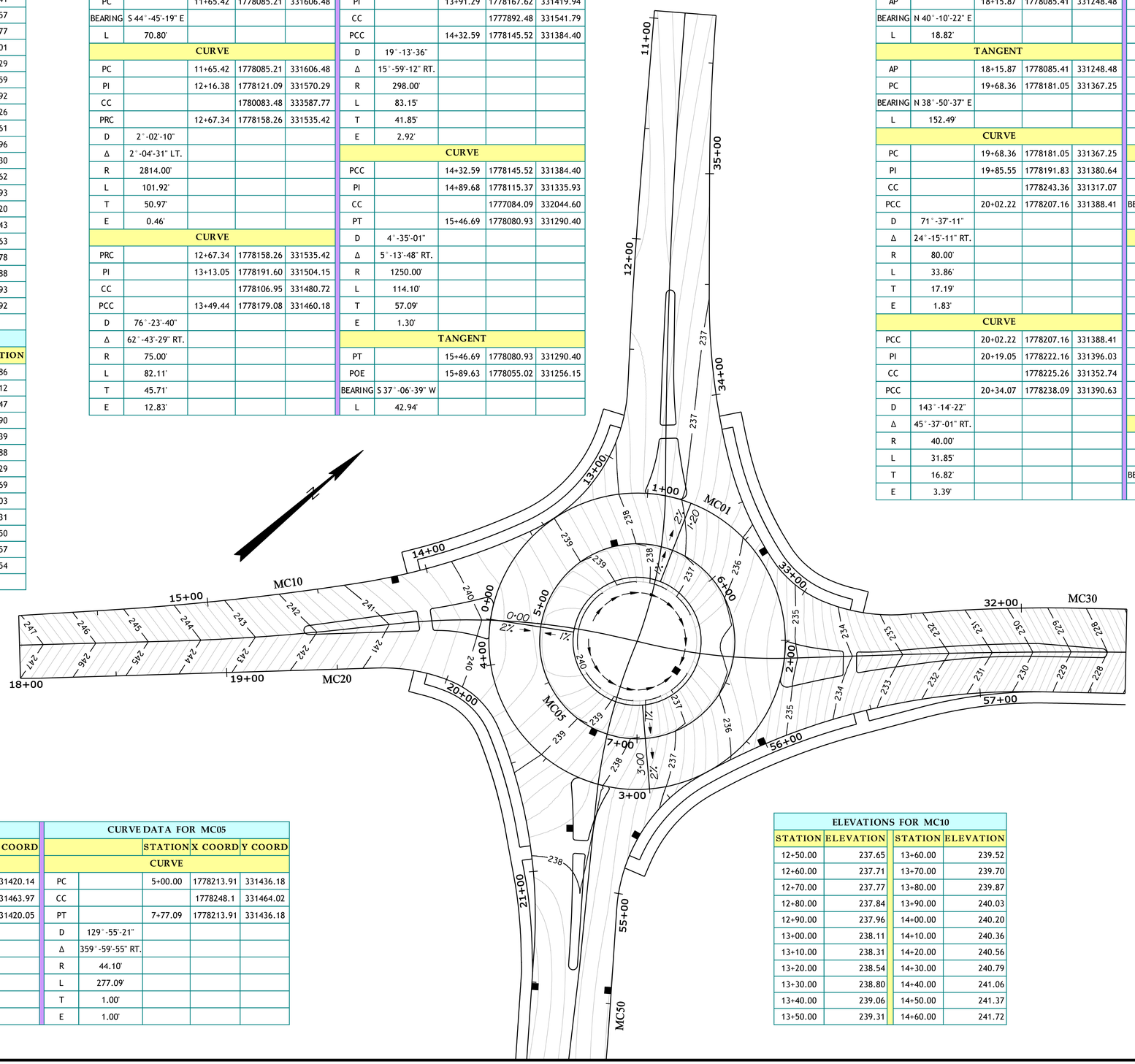
Filename: ...\msta\013_Striping Plan_002.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

ELEVATIONS FOR MC01			
STATION	ELEVATION	STATION	ELEVATION
0+00.00	239.92	2+10.00	235.25
0+10.00	239.86	2+20.00	235.30
0+20.00	239.75	2+30.00	235.41
0+30.00	239.60	2+40.00	235.57
0+40.00	239.39	2+50.00	235.77
0+50.00	239.15	2+60.00	236.01
0+60.00	238.87	2+70.00	236.29
0+70.00	238.57	2+80.00	236.59
0+80.00	238.24	2+90.00	236.92
0+90.00	237.90	3+00.00	237.26
1+00.00	237.55	3+10.00	237.61
1+10.00	237.20	3+20.00	237.96
1+20.00	236.86	3+30.00	238.30
1+30.00	236.53	3+40.00	238.62
1+40.00	236.23	3+50.00	238.93
1+50.00	235.96	3+60.00	239.20
1+60.00	235.73	3+70.00	239.43
1+70.00	235.53	3+80.00	239.63
1+80.00	235.39	3+90.00	239.78
1+90.00	235.29	4+00.00	239.88
2+00.00	235.24	4+10.00	239.93
		4+20.00	239.92

ELEVATIONS FOR MC05			
STATION	ELEVATION	STATION	ELEVATION
5+10.00	239.46	6+50.00	235.86
5+20.00	239.34	6+60.00	236.12
5+30.00	239.12	6+70.00	236.47
5+40.00	238.81	6+80.00	236.90
5+50.00	238.44	6+90.00	237.39
5+60.00	238.04	7+00.00	237.88
5+70.00	237.62	7+10.00	238.29
5+80.00	237.20	7+20.00	238.69
5+90.00	236.73	7+30.00	239.03
6+00.00	236.32	7+40.00	239.31
6+10.00	236.01	7+50.00	239.50
6+20.00	235.79	7+60.00	239.57
6+30.00	235.70	7+70.00	239.54
6+40.00	235.72		

CURVE DATA FOR MC10								
		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
TANGENT					CURVE				
POB		10+94.62	1778035.36	331656.76	PCC		13+49.44	1778179.08	331460.18
PC		11+65.42	1778085.21	331606.48	PI		13+91.29	1778167.62	331419.94
BEARING	S 44°-45'-19" E				CC			1777892.48	331541.79
L	70.80'				PCC		14+32.59	1778145.52	331384.40
CURVE					D	19°-13'-36"			
PC		11+65.42	1778085.21	331606.48	Δ	15°-59'-12" RT.			
PI		12+16.38	1778121.09	331570.29	R	298.00'			
CC			1780083.48	333587.77	L	83.15'			
PRC		12+67.34	1778158.26	331535.42	T	41.85'			
D	2°-02'-10"				E	2.92'			
Δ	2°-04'-31" LT.				CURVE				
R	2814.00'				PCC		14+32.59	1778145.52	331384.40
L	101.92'				PI		14+89.68	1778115.37	331335.93
T	50.97'				CC			1777084.09	332044.60
E	0.46'				PT		15+46.69	1778080.93	331290.40
CURVE					D	4°-35'-01"			
PRC		12+67.34	1778158.26	331535.42	Δ	5°-13'-48" RT.			
PI		13+13.05	1778191.60	331504.15	R	1250.00'			
CC			1778106.95	331480.72	L	114.10'			
PCC		13+49.44	1778179.08	331460.18	T	57.09'			
D	76°-23'-40"				E	1.30'			
Δ	62°-43'-29" RT.				TANGENT				
R	75.00'				PT		15+46.69	1778080.93	331290.40
L	82.11'				POE		15+89.63	1778055.02	331256.15
T	45.71'				BEARING	S 37°-06'-39" W			
E	12.83'				L	42.94'			

CURVE DATA FOR MC20								
		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
TANGENT					CURVE				
POB		17+97.05	1778073.27	331234.10	PCC		20+34.07	1778238.09	331390.63
AP		18+15.87	1778085.41	331248.48	PI		20+85.44	1778286.74	331374.15
BEARING	N 40°-10'-22" E				CC			1778165.90	331177.52
L	18.82'				PT		21+35.08	1778323.42	331338.19
TANGENT					D	25°-27'-53"			
AP		18+15.87	1778085.41	331248.48	Δ	25°-43'-14" RT.			
PC		19+68.36	1778181.05	331367.25	R	225.00'			
BEARING	N 38°-50'-37" E				L	101.00'			
L	152.49'				T	51.37'			
CURVE					E	5.79'			
PC		19+68.36	1778181.05	331367.25	TANGENT				
PI		19+85.55	1778191.83	331380.64	PT		21+35.08	1778323.42	331338.19
CC			1778243.36	331317.07	PC		22+39.31	1778397.85	331265.22
PCC		20+02.22	1778207.16	331388.41	BEARING	S 45°-33'-57" E			
D	71°-37'-11"				L	104.23'			
Δ	24°-15'-11" RT.				CURVE				
R	80.00'				PC		22+39.31	1778397.85	331265.22
L	33.86'				PI		22+63.50	1778415.13	331248.28
T	17.19'				CC			1777708.26	330561.87
E	1.83'				PT		22+87.69	1778431.55	331230.51
CURVE					D	5°-49'-01"			
PCC		20+02.22	1778207.16	331388.41	Δ	2°-48'-52" RT.			
PI		20+19.05	1778222.16	331396.03	R	985.00'			
CC			1778225.26	331352.74	L	48.38'			
PCC		20+34.07	1778238.09	331390.63	T	24.20'			
D	143°-14'-22"				E	0.30'			
Δ	45°-37'-01" RT.				TANGENT				
R	40.00'				PT		22+87.69	1778431.55	331230.51
L	31.85'				POE		23+05.57	1778443.69	331217.38
T	16.82'				BEARING	S 42°-45'-05" E			
E	3.39'				L	17.88'			



CURVE DATA FOR MC01				
		STATION	X COORD	Y COORD
CURVE				
PC		0+00.00	1778197.46	331420.14
CC			1778248.08	331463.97
PT		4+20.65	1778197.53	331420.05
D	85°-33'-34"			
Δ	359°-54'-28" RT.			
R	66.97'			
L	420.65'			
T	1.00'			
E	1.00'			

CURVE DATA FOR MC05				
		STATION	X COORD	Y COORD
CURVE				
PC		5+00.00	1778213.91	331436.18
CC			1778248.1	331464.02
PT		7+77.09	1778213.91	331436.18
D	129°-55'-21"			
Δ	359°-59'-55" RT.			
R	44.10'			
L	277.09'			
T	1.00'			
E	1.00'			

ELEVATIONS FOR MC10			
STATION	ELEVATION	STATION	ELEVATION
12+50.00	237.65	13+60.00	239.52
12+60.00	237.71	13+70.00	239.70
12+70.00	237.77	13+80.00	239.87
12+80.00	237.84	13+90.00	240.03
12+90.00	237.96	14+00.00	240.20
13+00.00	238.11	14+10.00	240.36
13+10.00	238.31	14+20.00	240.56
13+20.00	238.54	14+30.00	240.79
13+30.00	238.80	14+40.00	241.06
13+40.00	239.06	14+50.00	241.37
13+50.00	239.31	14+60.00	241.72

ELEVATIONS FOR MC20			
STATION	ELEVATION	STATION	ELEVATION
19+30.00	241.95	20+60.00	238.75
19+40.00	241.62	20+70.00	238.51
19+50.00	241.32	20+80.00	238.29
19+60.00	241.04	20+90.00	238.06
19+70.00	240.78	21+00.00	237.85
19+80.00	240.56	21+10.00	237.67
19+90.00	240.35	21+20.00	237.52
20+00.00	240.15	21+30.00	237.41
20+10.00	239.96	21+40.00	237.34
20+20.00	239.75	21+50.00	237.30
20+30.00	239.50	21+60.00	237.30
20+40.00	239.25	21+70.00	237.32
20+50.00	239.00	21+80.00	237.35
		21+90.00	237.38

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(600)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN 11/2012
CHECKED-REVIEWED	------	------
DESIGN2-DETAILED2	------	------
DESIGN3-DETAILED3	------	------
REVISIONS 1	------	------
REVISIONS 2	------	------
REVISIONS 3	------	------
REVISIONS 4	------	------
FIELD CHANGES	------	------

SIGNATURE

P.E. NUMBER

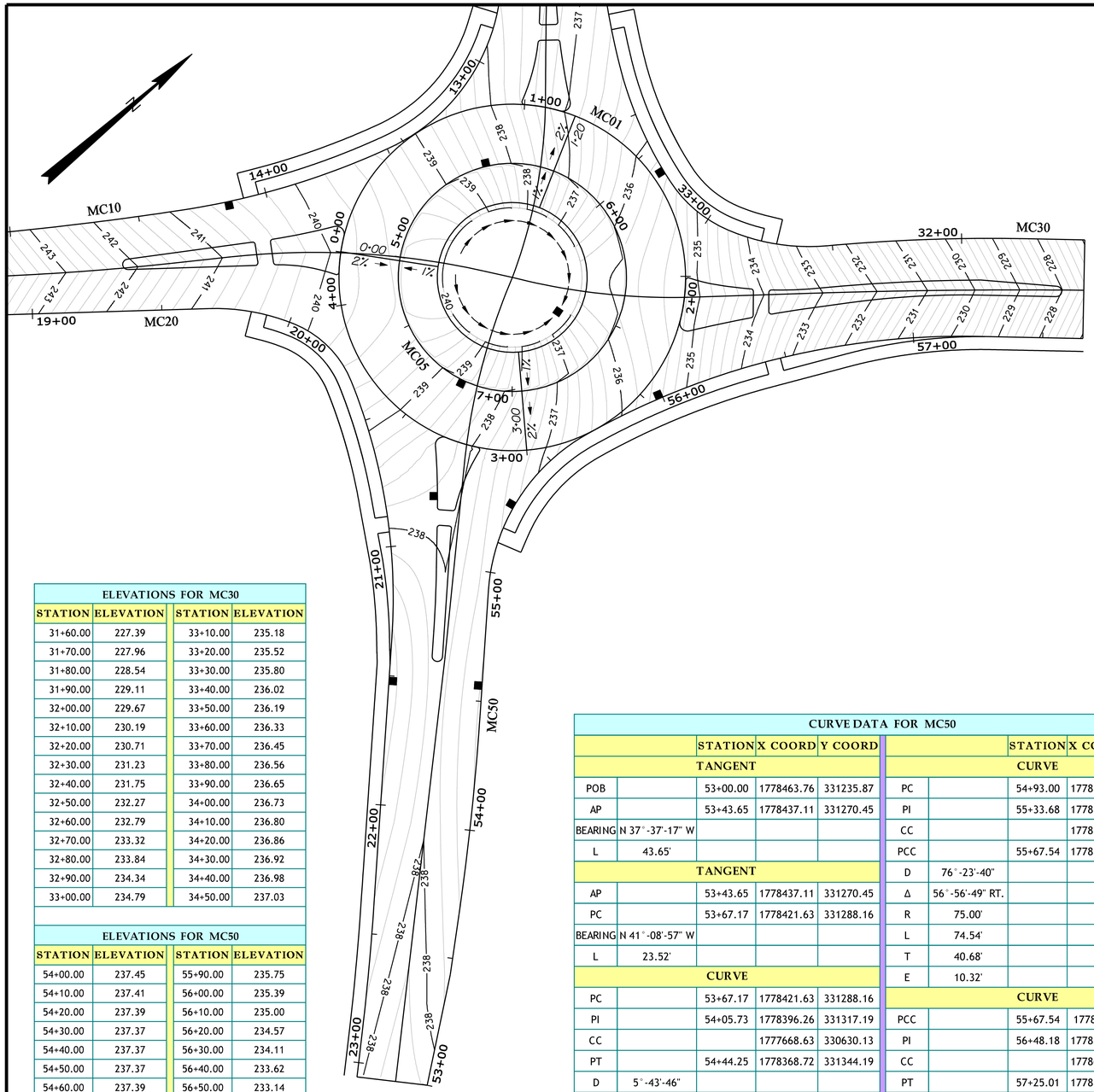
DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

GRADING PLANS

SHEET NUMBER
14
OF 40

Filename: ...\msta\014_Grading Plan_001.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



ELEVATIONS FOR MC30			
STATION	ELEVATION	STATION	ELEVATION
31+60.00	227.39	33+10.00	235.18
31+70.00	227.96	33+20.00	235.52
31+80.00	228.54	33+30.00	235.80
31+90.00	229.11	33+40.00	236.02
32+00.00	229.67	33+50.00	236.19
32+10.00	230.19	33+60.00	236.33
32+20.00	230.71	33+70.00	236.45
32+30.00	231.23	33+80.00	236.56
32+40.00	231.75	33+90.00	236.65
32+50.00	232.27	34+00.00	236.73
32+60.00	232.79	34+10.00	236.80
32+70.00	233.32	34+20.00	236.86
32+80.00	233.84	34+30.00	236.92
32+90.00	234.34	34+40.00	236.98
33+00.00	234.79	34+50.00	237.03

ELEVATIONS FOR MC50			
STATION	ELEVATION	STATION	ELEVATION
54+00.00	237.45	55+90.00	235.75
54+10.00	237.41	56+00.00	235.39
54+20.00	237.39	56+10.00	235.00
54+30.00	237.37	56+20.00	234.57
54+40.00	237.37	56+30.00	234.11
54+50.00	237.37	56+40.00	233.62
54+60.00	237.39	56+50.00	233.14
54+70.00	237.41	56+60.00	232.65
54+80.00	237.44	56+70.00	232.17
54+90.00	237.48	56+80.00	231.68
55+00.00	237.49	56+90.00	231.19
55+10.00	237.45	57+00.00	230.71
55+20.00	237.35	57+10.00	230.22
55+30.00	237.22	57+20.00	229.74
55+40.00	237.06	57+30.00	229.18
55+50.00	236.86	57+40.00	228.55
55+60.00	236.64	57+50.00	227.92
55+70.00	236.37	57+60.00	227.29
55+80.00	236.08		

CURVE DATA FOR MC50									
		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
TANGENT					CURVE				
POB		53+00.00	1778463.76	331235.87	PC		54+93.00	1778333.92	331378.32
AP		53+43.65	1778437.11	331270.45	PI		55+33.68	1778304.87	331406.79
BEARING	N 37°-37'-17" W				CC			1778386.42	331431.87
L	43.65'				PCC		55+67.54	1778312.90	331446.67
TANGENT					D	76°-23'-40"			
AP		53+43.65	1778437.11	331270.45	Δ	56°-56'-49" RT.			
PC		53+67.17	1778421.63	331288.16	R	75.00'			
BEARING	N 41°-08'-57" W				L	74.54'			
L	23.52'				T	40.68'			
CURVE					E	10.32'			
PC		53+67.17	1778421.63	331288.16	CURVE				
PI		54+05.73	1778396.26	331317.19	PCC		55+67.54	1778312.9	331446.67
CC			1777668.63	330630.13	PI		56+48.18	1778328.81	331525.72
PT		54+44.25	1778368.72	331344.19	CC			1778604.06	331388.06
D	5°-43'-46"				PT		57+25.01	1778382.51	331585.86
Δ	4°-25'-00" LT.				D	19°-17'-29"			
R	1000.00'				Δ	30°-22'-41" RT.			
L	77.08'				R	297.00'			
T	38.56'				L	157.47'			
E	0.74'				T	80.63'			
TANGENT					E	10.75'			
PT		54+44.25	1778368.72	331344.19	TANGENT				
PC		54+93.00	1778333.92	331378.32	PT		57+25.01	1778382.51	331585.86
BEARING	N 45°-33'-57" W				POE		61+48.46	1778664.53	331901.73
L	48.75'				BEARING	N 41°-45'-33" E			
					L	423.45'			

CURVE DATA FOR MC30									
		STATION	X COORD	Y COORD			STATION	X COORD	Y COORD
TANGENT					CURVE				
POB		30+00.00	1778482.44	331755.15	PCC		33+20.84	1778259.60	331534.48
PC		31+74.54	1778366.25	331624.90	PI		33+45.97	1778234.70	331537.83
BEARING	S 41°-44'-01" W				CC			1778279.57	331683.15
L	174.54'				PCC		33+70.63	1778212.25	331549.11
CURVE					D	38°-11'-50"			
PC		31+74.54	1778366.25	331624.90	Δ	19°-01'-02" RT.			
PI		32+13.19	1778340.53	331596.06	R	150.00'			
CC			1778888.63	331158.93	L	49.79'			
PRC		32+51.76	1778318.13	331564.56	T	25.12'			
D	8°-11'-06"				E	2.09'			
Δ	6°-19'-14" LT.				CURVE				
R	700.00'				PCC		33+70.63	1778212.25	331549.11
L	77.22'				PI		34+07.31	1778179.47	331565.57
T	38.65'				CC			1778345.55	331814.51
E	1.07'				PT		34+43.62	1778151.68	331589.52
CURVE					D	19°-17'-29"			
PRC		32+51.76	1778318.13	331564.56	Δ	14°-04'-54" RT.			
PI		32+71.86	1778306.48	331548.17	R	297.00'			
CC			1778252.93	331610.92	L	72.99'			
PCC		32+91.15	1778288.47	331539.24	T	36.68'			
D	71°-37'-11"				E	2.26'			
Δ	28°-12'-49" RT.				TANGENT				
R	80.00'				PT		34+43.62	1778151.68	331589.52
L	39.39'				PC		34+97.67	1778110.73	331624.80
T	20.10'				BEARING	N 49°-14'-59" W			
E	2.49'				L	54.05'			
CURVE					CURVE				
PCC		32+91.15	1778288.47	331539.24	PC		34+97.67	1778110.73	331624.80
PI		33+06.45	1778274.76	331532.45	PI		35+36.41	1778081.39	331650.08
CC			1778266.26	331584.04	CC			1778761.54	332380.09
PCC		33+20.84	1778259.60	331534.48	PT		35+75.10	1778054.09	331677.57
D	114°-35'-30"				D	5°-44'-49"			
Δ	34°-01'-29" RT.				Δ	4°-27'-00" RT.			
R	50.00'				R	997.00'			
L	29.69'				L	77.43'			
T	15.30'				T	38.74'			
E	2.29'				E	0.75'			
					TANGENT				
					PT		35+75.10	1778054.09	331677.57
					POE		35+85.37	1778046.86	331684.85
					BEARING	N 44°-47'-59" W			
					L	10.26'			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

GRADING PLANS

SHEET NUMBER
15
OF 40

Filename: ...\msta\015_Grading Plan_002.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL01						
2 - 3		31.07'		LT.		
3 - 4	251.00'	26.82'	4+06.39	254.00' LT.	1778329.78	331746.30
6 - 7		5.12'		LT. & RT.		
5 - 1	2799.00'	58.23'	4+68.23	2795.75' LT.	1780072.94	333597.94
TANGENT , CURVE & CENTER POINT DATA FOR ISL02						
12 - 16	251.00'	23.36'	4+06.39	254.00' LT.	1778329.78	331746.30
18 - 17	67.00'	14.19'	5+35.63	0.00	1778248.1	331464.02
15 - 13	76.00'	23.41'	4+35.87	78.63' RT.	1778130.04	331478.79
11 - 10		6.49'		LT. & RT.		
TANGENT , CURVE & CENTER POINT DATA FOR ISL03						
21 - 26		29.31'		LT.		
26 - 28	328.00'	50.74'	10+32.60	329.84' LT.	1778615.90	331378.77
28 - 31		13.33'		LT.		
31 - 35	500.00'	17.05'	10+22.25	502.14' LT.	1778753.19	331274.29
37 - 36		7.33'		LT. & RT.		
34 - 30	150.00'	18.01'	10+95.33	151.55' RT.	1778205.37	331637.18
30 - 25	684.00'	62.98'	10+24.51	680.14' LT.	1778887.97	331158.00
25 - 20		29.53'		RT.		
TANGENT , CURVE & CENTER POINT DATA FOR ISL04						
40 - 41		9.18'		LT. & RT.		
43 - 47	500.00'	24.37'	10+22.25	502.14' LT.	1778753.19	331274.29
49 - 48	67.00'	16.05'	12+04.57	0.00	1778248.1	331464.02
46 - 45	66.00'	10.08'	11+12.35	69.29' RT.	1778258.88	331572.43
45 - 42	150.00'	14.26'	10+95.33	151.55' RT.	1778205.37	331637.18

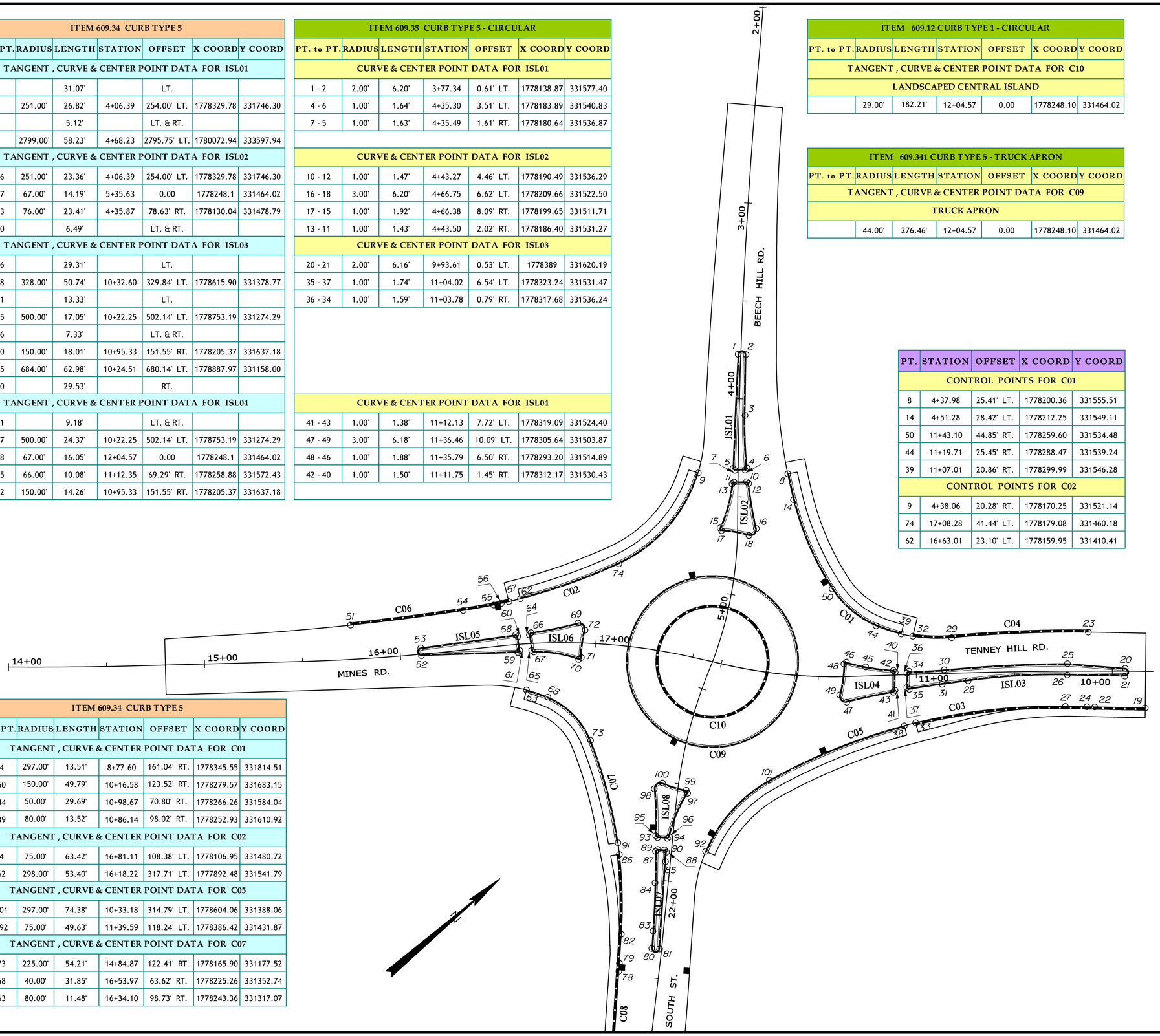
ITEM 609.35 CURB TYPE 5 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ISL01						
1 - 2	2.00'	6.20'	3+77.34	0.61' LT.	1778138.87	331577.40
4 - 6	1.00'	1.64'	4+35.30	3.51' LT.	1778183.89	331540.83
7 - 5	1.00'	1.63'	4+35.49	1.61' RT.	1778180.64	331536.87
CURVE & CENTER POINT DATA FOR ISL02						
10 - 12	1.00'	1.47'	4+43.27	4.46' LT.	1778190.49	331536.29
16 - 18	3.00'	6.20'	4+66.75	6.62' LT.	1778209.66	331522.50
17 - 15	1.00'	1.92'	4+66.38	8.09' RT.	1778199.65	331511.71
13 - 11	1.00'	1.43'	4+43.50	2.02' RT.	1778186.40	331531.27
CURVE & CENTER POINT DATA FOR ISL03						
20 - 21	2.00'	6.16'	9+93.61	0.53' LT.	1778389	331620.19
35 - 37	1.00'	1.74'	11+04.02	6.54' LT.	1778323.24	331531.47
36 - 34	1.00'	1.59'	11+03.78	0.79' RT.	1778317.68	331536.24
CURVE & CENTER POINT DATA FOR ISL04						
41 - 43	1.00'	1.38'	11+12.13	7.72' LT.	1778319.09	331524.40
47 - 49	3.00'	6.18'	11+36.46	10.09' LT.	1778305.64	331503.87
48 - 46	1.00'	1.88'	11+35.79	6.50' RT.	1778293.20	331514.89
42 - 40	1.00'	1.50'	11+11.75	1.45' RT.	1778312.17	331530.43

ITEM 609.12 CURB TYPE 1 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR C10						
LANDSCAPED CENTRAL ISLAND						
	29.00'	182.21'	12+04.57	0.00	1778248.10	331464.02

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 C09						
TRUCK APRON						
	44.00'	276.46'	12+04.57	0.00	1778248.10	331464.02

PT.	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR C01				
8	4+37.98	25.41' LT.	1778200.36	331555.51
14	4+51.28	28.42' LT.	1778212.25	331549.11
50	11+43.10	44.85' RT.	1778259.60	331534.48
44	11+19.71	25.45' RT.	1778288.47	331539.24
39	11+07.01	20.86' RT.	1778299.99	331546.28
CONTROL POINTS FOR C02				
9	4+38.06	20.28' RT.	1778170.25	331521.14
74	17+08.28	41.44' LT.	1778179.08	331460.18
62	16+63.01	23.10' LT.	1778159.95	331410.41

PT.	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL01				
1	3+77.29	1.39' RT.	1778137.49	331575.95
2	3+77.30	2.61' LT.	1778140.20	331578.90
3	4+08.40	3.00' LT.	1778163.47	331558.31
4	4+35.20	4.50' LT.	1778184.47	331541.64
6	4+36.30	3.54' LT.	1778184.66	331540.19
7	4+36.48	1.57' RT.	1778181.42	331536.24
5	4+35.47	2.61' RT.	1778179.97	331536.13
CONTROL POINTS FOR ISL02				
10	4+42.27	4.42' LT.	1778189.72	331536.93
12	4+43.14	5.45' LT.	1778191.05	331537.13
16	4+66.10	9.54' LT.	1778211.08	331525.14
18	4+69.57	5.86' LT.	1778211.31	331519.99
17	4+67.42	8.14' RT.	1778200.37	331511.01
15	4+65.97	9.01' RT.	1778198.75	331511.28
13	4+43.40	3.02' RT.	1778185.66	331530.58
11	4+42.50	2.06' RT.	1778185.62	331531.90
CONTROL POINTS FOR ISL03				
20	9+93.46	1.46' RT.	1778387.62	331621.61
21	9+93.64	2.53' LT.	1778390.52	331618.86
26	10+22.96	1.96' LT.	1778371.02	331596.97
28	10+73.67	4.07' LT.	1778340.32	331556.64
31	10+86.95	5.49' LT.	1778333.09	331545.44
35	11+03.88	7.53' LT.	1778324.10	331530.96
37	11+05.01	6.50' LT.	1778322.59	331530.71
36	11+04.78	0.82' RT.	1778317.03	331535.48
34	11+03.72	1.78' RT.	1778316.93	331536.91
30	10+85.72	1.86' RT.	1778328.14	331551.00
25	10+22.86	3.86' RT.	1778366.65	331600.81
CONTROL POINTS FOR ISL04				
40	11+10.75	1.40' RT.	1778312.83	331531.19
41	11+11.13	7.76' LT.	1778319.74	331525.16
43	11+11.98	8.71' LT.	1778319.95	331523.90
47	11+35.87	13.03' LT.	1778308.31	331502.50
49	11+39.25	9.28' LT.	1778303.17	331502.16
48	11+36.82	6.54' RT.	1778292.54	331514.14
46	11+35.44	7.44' RT.	1778292.69	331515.75
45	11+25.72	4.66' RT.	1778300.92	331521.55
42	11+11.64	2.44' RT.	1778311.46	331531.14



ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR C01						
8 - 14	297.00'	13.51'	8+77.60	161.04' RT.	1778345.55	331814.51
14 - 50	150.00'	49.79'	10+16.58	123.52' RT.	1778279.57	331683.15
50 - 44	50.00'	29.69'	10+98.67	70.80' RT.	1778266.26	331584.04
44 - 39	80.00'	13.52'	10+86.14	98.02' RT.	1778252.93	331610.92
TANGENT , CURVE & CENTER POINT DATA FOR C02						
9 - 74	75.00'	63.42'	16+81.11	108.38' LT.	1778106.95	331480.72
74 - 62	298.00'	53.40'	16+18.22	317.71' LT.	1777892.48	331541.79
TANGENT , CURVE & CENTER POINT DATA FOR C05						
38 - 101	297.00'	74.38'	10+33.18	314.79' LT.	1778604.06	331388.06
101 - 92	75.00'	49.63'	11+39.59	118.24' LT.	1778386.42	331431.87
TANGENT , CURVE & CENTER POINT DATA FOR C07						
91 - 73	225.00'	54.21'	14+84.87	122.41' RT.	1778165.90	331177.52
73 - 68	40.00'	31.85'	16+53.97	63.62' RT.	1778225.26	331352.74
68 - 63	80.00'	11.48'	16+34.10	98.73' RT.	1778243.36	331317.07

ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT
END POINT
19
33
75
86

ITEM 609.237 TERMINAL CURB TYPE 1 - 7 FOOT
END POINT
32
51
57

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN 11/2012
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

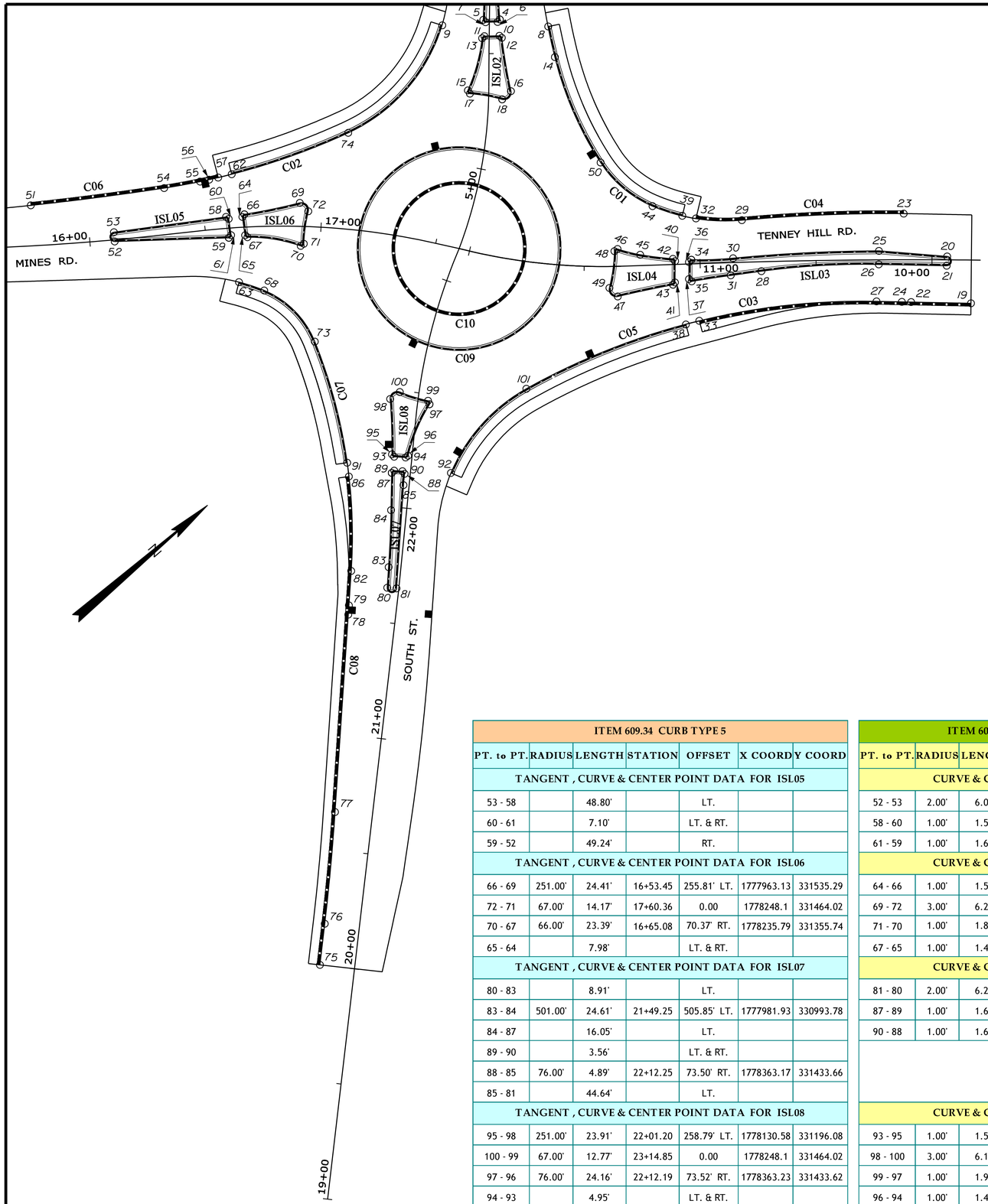
DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

GEOMETRIC PLANS

SHEET NUMBER
16
OF 40

Filename: ...\msto\016_Geometry Plan_001.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



CONTROL POINTS FOR C03				
19	9+83.00	18.67' LT.	1778409.64	331616.25
22	10+09.00	18.26' LT.	1778392.45	331597.00
24	10+13.03	18.18' LT.	1778389.79	331594.01
27	10+24.03	17.91' LT.	1778382.51	331585.86
33	11+01.15	24.65' LT.	1778339.16	331522.38
CONTROL POINTS FOR C04				
23	10+12.16	19.90' RT.	1778361.39	331619.39
29	10+81.46	18.16' RT.	1778318.13	331564.56
32	11+01.15	19.54' RT.	1778304.69	331550.03
CONTROL POINTS FOR C05				
38	11+06.98	26.05' LT.	1778336.60	331516.95
101	22+60.19	45.44' RT.	1778312.90	331446.67
92	22+17.04	17.39' RT.	1778319.31	331398.35
CONTROL POINTS FOR C06				
51	15+75.45	17.46' LT.	1778113.79	331335.89
54	16+34.34	20.04' LT.	1778145.52	331384.40
55	16+50.05	21.15' LT.	1778153.48	331397.99
56	16+53.81	21.58' LT.	1778155.39	331401.51
57	16+57.51	22.11' LT.	1778157.25	331405.05
CONTROL POINTS FOR C07				
63	16+63.02	23.54' RT.	1778197.33	331382.51
68	16+74.72	27.67' RT.	1778207.16	331388.41
73	17+00.11	49.43' RT.	1778238.09	331390.63
91	22+16.97	27.58' LT.	1778286.84	331367.23
CONTROL POINTS FOR C08				
75	20+00.00	15.00' LT.	1778443.69	331217.38
76	20+17.88	15.00' LT.	1778431.55	331230.51
77	20+66.24	16.19' LT.	1778397.85	331265.22
78	21+51.50	20.38' LT.	1778336.90	331324.98
79	21+55.49	20.58' LT.	1778334.04	331327.78
82	21+70.70	21.20' LT.	1778323.42	331338.19
86	22+11.12	26.26' LT.	1778291.84	331363.91

CONTROL POINTS FOR ISL05				
52	16+10.67	0.72' RT.	1778149.14	331353.22
53	16+10.70	3.28' LT.	1778145.90	331355.55
58	16+59.40	4.92' LT.	1778172.34	331396.57
60	16+60.44	3.99' LT.	1778173.71	331396.87
61	16+60.94	3.09' RT.	1778179.72	331393.09
59	16+59.89	4.16' RT.	1778179.96	331391.62
CONTROL POINTS FOR ISL06				
75	20+00.00	15.00' LT.	1778443.69	331217.38
76	20+17.88	15.00' LT.	1778431.55	331230.51
77	20+66.24	16.19' LT.	1778397.85	331265.22
78	21+51.50	20.38' LT.	1778336.90	331324.98
79	21+55.49	20.58' LT.	1778334.04	331327.78
82	21+70.70	21.20' LT.	1778323.42	331338.19
86	22+11.12	26.26' LT.	1778291.84	331363.91
CONTROL POINTS FOR ISL07				
80	21+65.04	5.01' LT.	1778339.04	331345.28
83	21+73.94	5.30' LT.	1778332.68	331351.52
84	21+98.51	6.70' LT.	1778314.69	331368.31
87	22+14.51	8.01' LT.	1778302.69	331378.97
89	22+15.59	7.05' LT.	1778302.64	331380.42
90	22+15.71	3.50' RT.	1778305.13	331382.96
88	22+14.68	2.46' RT.	1778306.58	331382.93
85	22+09.78	2.46' LT.	1778309.97	331379.39
81	21+65.17	1.01' LT.	1778341.84	331348.14
CONTROL POINTS FOR ISL08				
93	22+21.57	7.67' LT.	1778298.06	331384.31
95	22+22.49	8.70' LT.	1778296.68	331384.26
98	22+45.87	11.94' LT.	1778278.03	331399.21
100	22+49.26	8.23' LT.	1778278.44	331404.32
99	22+47.17	4.35' RT.	1778289.23	331411.11
97	22+45.73	5.18' RT.	1778290.80	331410.62
96	22+22.59	1.77' LT.	1778301.62	331389.13
94	22+21.73	2.72' LT.	1778301.52	331387.85

ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL05						
53 - 58		48.80'		LT.		
60 - 61		7.10'		LT. & RT.		
59 - 52		49.24'		RT.		
TANGENT , CURVE & CENTER POINT DATA FOR ISL06						
66 - 69	251.00'	24.41'	16+53.45	255.81' LT.	1777963.13	331535.29
72 - 71	67.00'	14.17'	17+60.36	0.00	1778248.1	331464.02
70 - 67	66.00'	23.39'	16+65.08	70.37' RT.	1778235.79	331355.74
65 - 64		7.98'		LT. & RT.		
TANGENT , CURVE & CENTER POINT DATA FOR ISL07						
80 - 83		8.91'		LT.		
83 - 84	501.00'	24.61'	21+49.25	505.85' LT.	1777981.93	330993.78
84 - 87		16.05'		LT.		
89 - 90		3.56'		LT. & RT.		
88 - 85	76.00'	4.89'	22+12.25	73.50' RT.	1778363.17	331433.66
85 - 81		44.64'		LT.		
TANGENT , CURVE & CENTER POINT DATA FOR ISL08						
95 - 98	251.00'	23.91'	22+01.20	258.79' LT.	1778130.58	331196.08
100 - 99	67.00'	12.77'	23+14.85	0.00	1778248.1	331464.02
97 - 96	76.00'	24.16'	22+12.19	73.52' RT.	1778363.23	331433.62
94 - 93		4.95'		LT. & RT.		

ITEM 609.35 CURB TYPE 5 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ISL05						
52 - 53	2.00'	6.08'	16+10.79	1.28' LT.	1778147.58	331354.47
58 - 60	1.00'	1.56'	16+59.45	3.92' LT.	1778173.18	331396.03
61 - 59	1.00'	1.69'	16+59.94	3.16' RT.	1778179.18	331392.25
CURVE & CENTER POINT DATA FOR ISL06						
64 - 66	1.00'	1.56'	16+67.31	4.52' LT.	1778177.47	331402.77
69 - 72	3.00'	6.20'	16+91.38	7.23' LT.	1778191.13	331423.33
71 - 70	1.00'	1.88'	16+91.78	7.47' RT.	1778202.28	331413.75
67 - 65	1.00'	1.44'	16+68.08	3.42' RT.	1778184.23	331398.52
CURVE & CENTER POINT DATA FOR ISL07						
81 - 80	2.00'	6.28'	21+65.10	3.01' LT.	1778340.44	331346.71
87 - 89	1.00'	1.62'	22+14.59	7.01' LT.	1778303.35	331379.72
90 - 88	1.00'	1.64'	22+14.71	3.46' LT.	1778305.84	331382.26
CURVE & CENTER POINT DATA FOR ISL08						
93 - 95	1.00'	1.52'	22+22.57	7.70' LT.	1778297.34	331385.01
98 - 100	3.00'	6.14'	22+46.46	9.01' LT.	1778279.79	331401.64
99 - 97	1.00'	1.92'	22+46.16	4.27' RT.	1778289.85	331410.32
96 - 94	1.00'	1.40'	22+22.73	2.76' LT.	1778300.81	331388.55

* TERMINAL CURB LENGTH ALREADY SUBTRACTED

	ITEM 609.11 VERTICAL CURB TYPE 1						
	PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
	TANGENT , CURVE & CENTER POINT DATA FOR C03						
*	19 - 22		18.81'		LT.		
	24 - 27		10.92'		LT.		
*	27 - 33	297.00'	70.09'	10+33.18	314.79' LT.	1778604.06	331388.06
	TANGENT , CURVE & CENTER POINT DATA FOR C04						
*	32 - 29	80.00'	15.86'	10+86.14	98.02' RT.	1778252.93	331610.92
	29 - 23	700.00'	69.87'	10+22.95	680.04' LT.	1778888.63	331158.93
	TANGENT , CURVE & CENTER POINT DATA FOR C06						
*	51 - 54	1250.00'	53.98'	14+75.74	1263.97' LT.	1777084.09	332044.60
	54 - 55	298.00'	15.75'	16+18.22	317.71' LT.	1777892.48	331541.79
*	56 - 57	298.00'	0.00'	16+18.22	317.71' LT.	1777892.48	331541.79
	TANGENT , CURVE & CENTER POINT DATA FOR C08						
*	75 - 76		10.88'		LT.		
	76 - 77	985.00'	48.38'	20+17.88	1000.00' LT.	1777708.26	330561.87
	77 - 78		85.36'		LT.		
	79 - 82		14.87'		LT.		
*	82 - 86	225.00'	33.80'	14+84.87	122.41' RT.	1778165.90	331177.52

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

GEOMETRIC PLANS

SHEET NUMBER
17
OF 40

Filename: ...\msta\017_Geometry Plan_002.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

Filename: ...\highway\msto\018_Plan_001.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012

MINES ROAD ALIGMNENT DATA

CURVE DATA #1
PI = 14+33.18
D = 2°51'53.2"
Δ = 1°54'03.9" Lt.
R = 2000.00'
L = 66.36'
T = 33.18'
E = 0.28'

N39°05'22.27"E

CURVE DATA #2
PI = 15+86.66
D = 5°43'46.5"
Δ = 4°40'05.2" Lt.
R = 1000.00'
L = 81.47'
T = 40.76'
E = 0.83'

N34°25'17.09"E

CURVE DATA #3
PI = 17+00.26
D = 19°05'54.9"
Δ = 18°43'36.0" Rt.
R = 300.00'
L = 98.05'
T = 49.47'
E = 4.05'

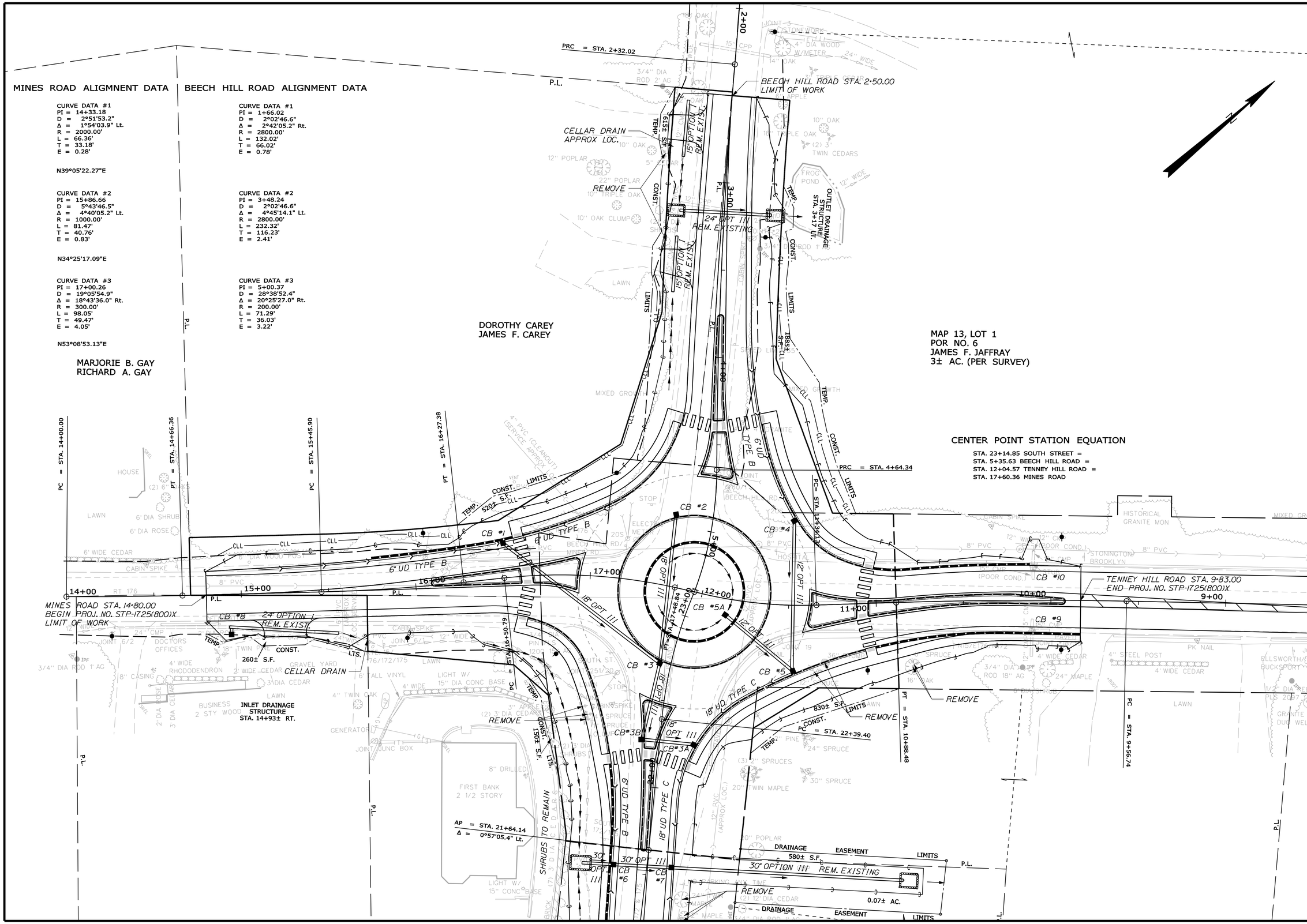
N53°08'53.13"E

BEECH HILL ROAD ALIGNMENT DATA

CURVE DATA #1
PI = 1+66.02
D = 2°02'46.6"
Δ = 2°42'05.2" Rt.
R = 2800.00'
L = 132.02'
T = 66.02'
E = 0.78'

CURVE DATA #2
PI = 3+48.24
D = 2°02'46.6"
Δ = 4°45'14.1" Lt.
R = 2800.00'
L = 232.32'
T = 116.23'
E = 2.41'

CURVE DATA #3
PI = 5+00.37
D = 28°38'52.4"
Δ = 20°25'27.0" Rt.
R = 200.00'
L = 71.29'
T = 36.03'
E = 3.22'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	P. MACDONALD	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

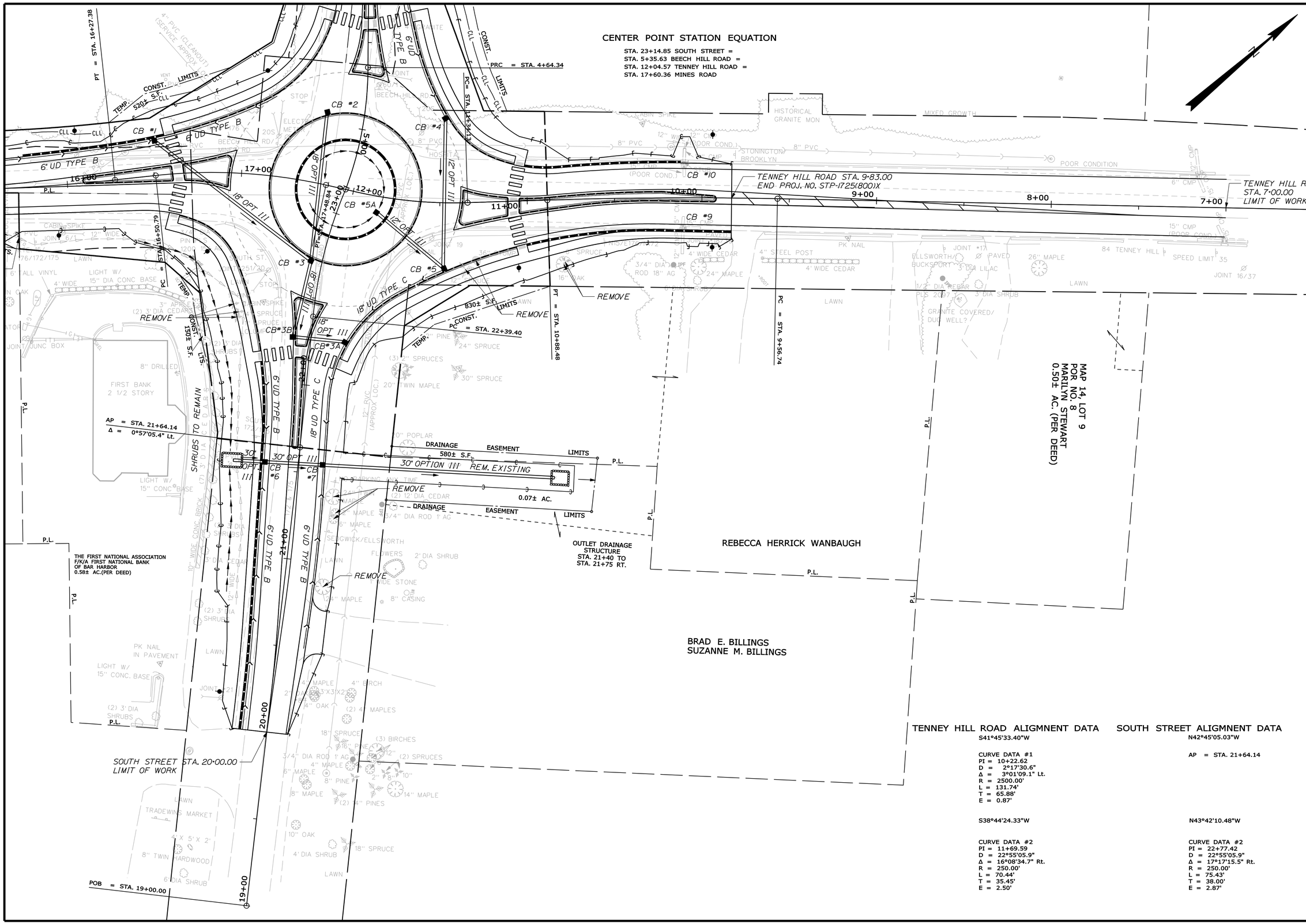
P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

PLANS

SHEET NUMBER
18
OF 40



TENNEY HILL ROAD ALIGMNENT DATA

S41°45'33.40"W

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Δ = 3°01'09.1" Lt.
R = 2500.00'
L = 131.74'
T = 65.88'
E = 0.87'

S38°44'24.33"W

CURVE DATA #2
PI = 11+69.59
D = 22°55'05.9"
Δ = 16°08'34.7" Rt.
R = 250.00'
L = 70.44'
T = 35.45'
E = 2.50'

SOUTH STREET ALIGMNENT DATA

N42°45'05.03"W

AP = STA. 21+64.14

N43°42'10.48"W

CURVE DATA #2
PI = 22+77.42
D = 22°55'05.9"
Δ = 17°17'15.5" Rt.
R = 250.00'
L = 75.43'
T = 38.00'
E = 2.87'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

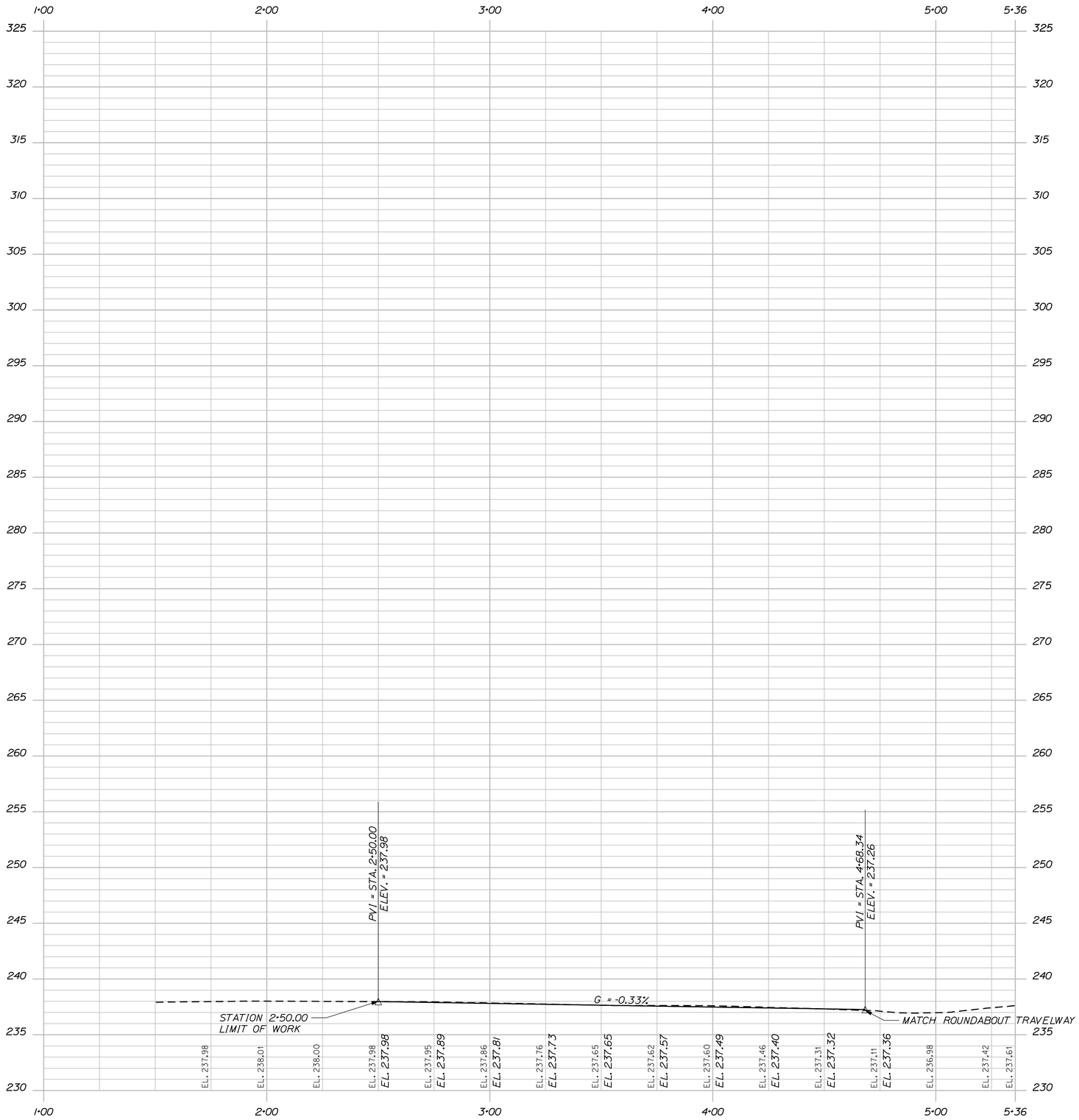
DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

PLANS

SHEET NUMBER
19
OF 40

Filename: ...\highway\msta\019_Plan_002.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



BEECH HILL ROAD PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

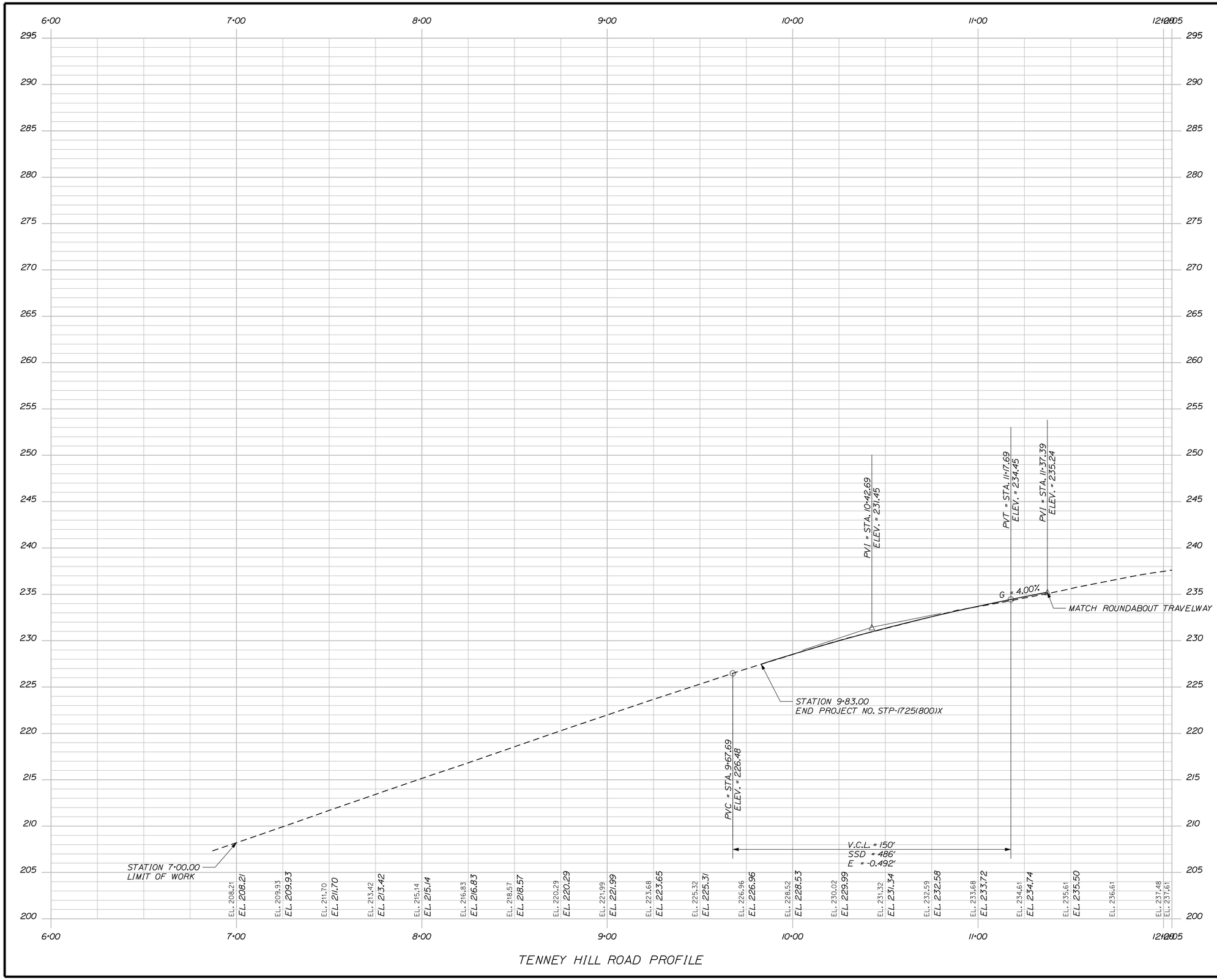
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

PROFILES

SHEET NUMBER
20
OF 40

STA. 1+00.00 TO STA. 5+35.63

Filename: ...\msta\020_ProfileBeech.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



TENNEY HILL ROAD PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

PROFILES

SHEET NUMBER
21
OF 40

STA. 6+00.00 TO STA. 12+04.57

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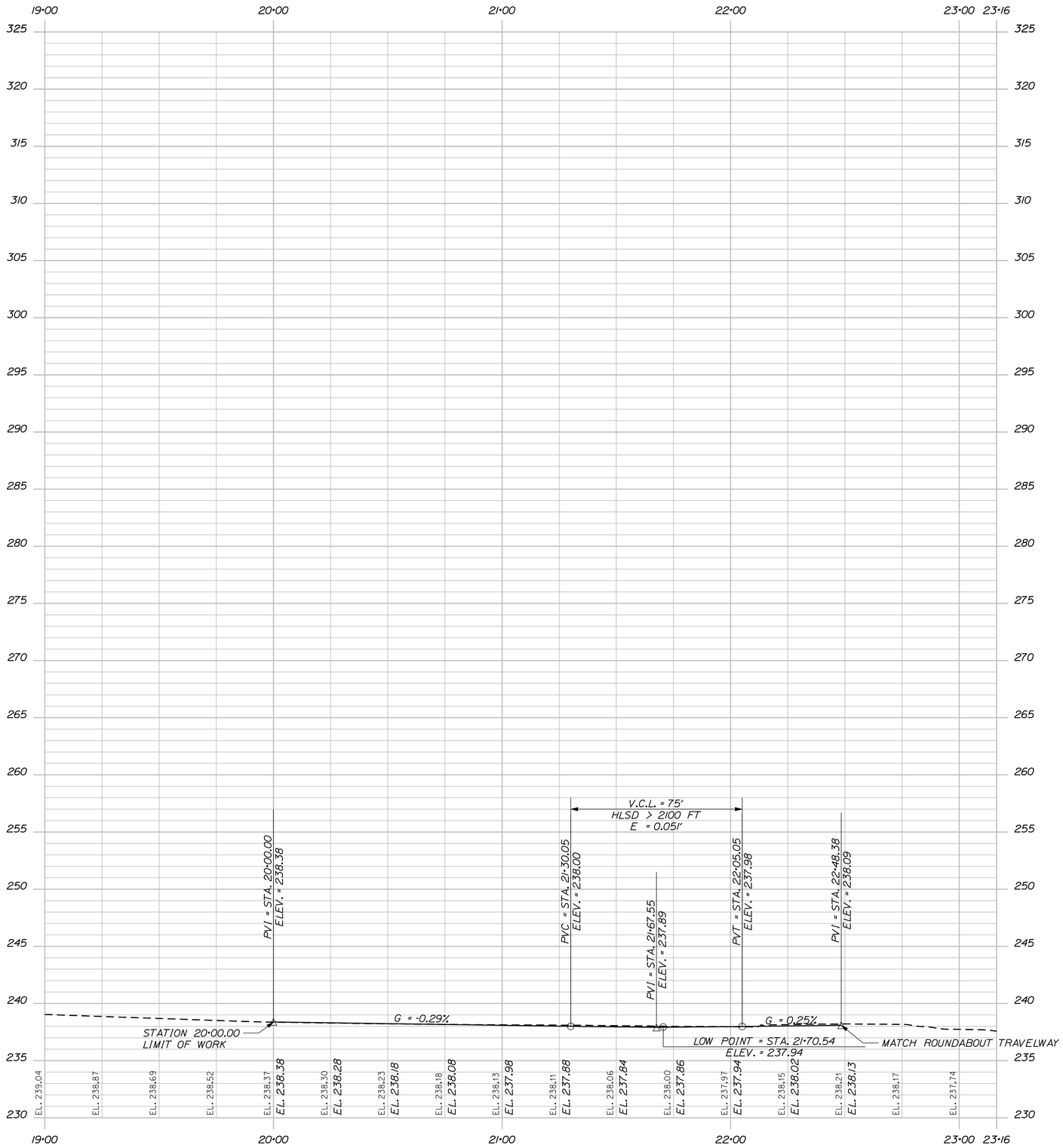


SOUTH STREET PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

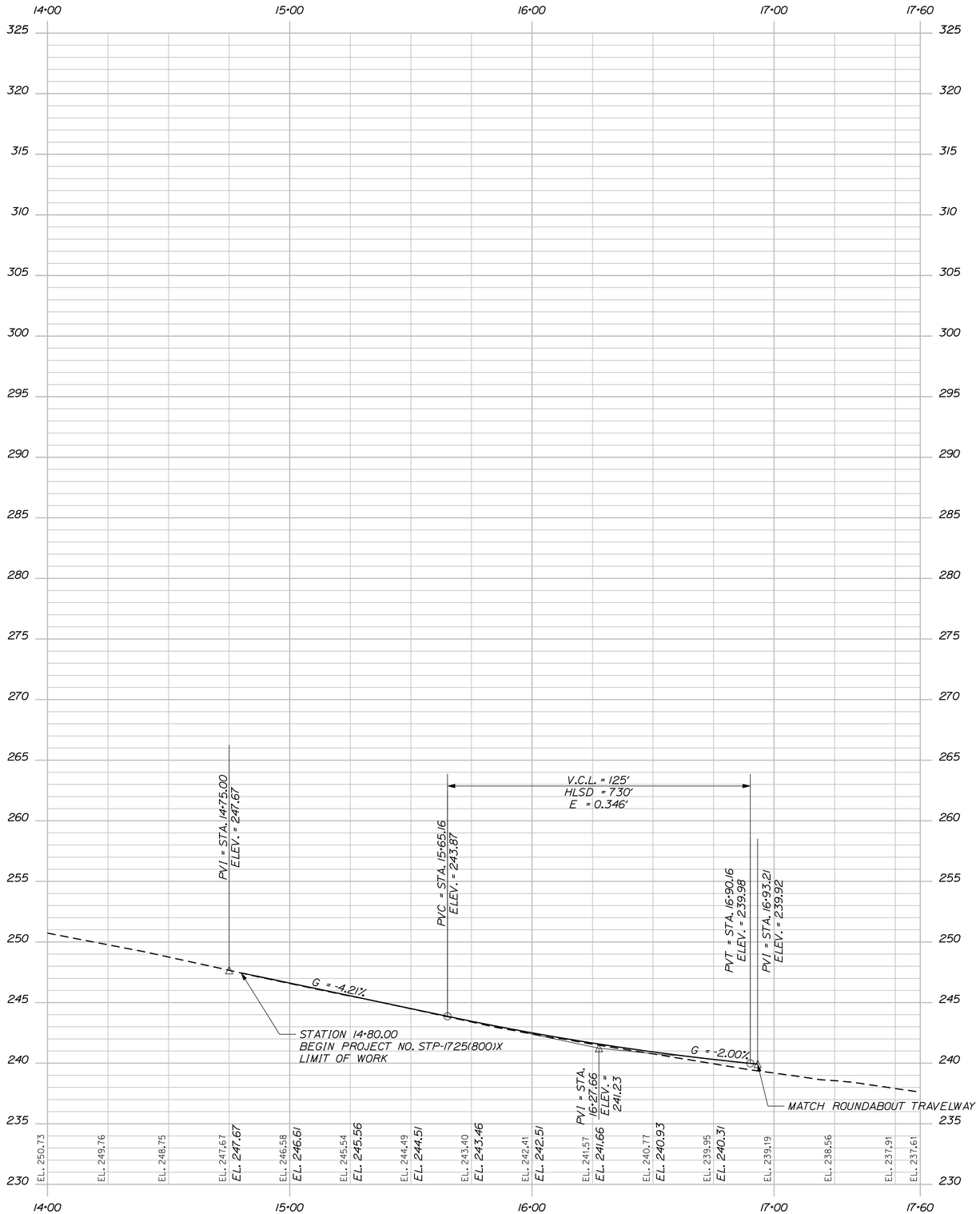
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

PROFILES

SHEET NUMBER
22
OF 40

STA. 19+00.00 TO STA. 23+16.33

Filename: ...\msta\022_ProfileSouth.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012



MINES ROAD PROFILE

STA. 14+00.00 TO STA. 17+60.33

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	A. MOUSSEAU	11/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------		------
REVISIONS 2	------		------
REVISIONS 3	------		------
REVISIONS 4	------		------
FIELD CHANGES	------		------

SIGNATURE

P.E. NUMBER

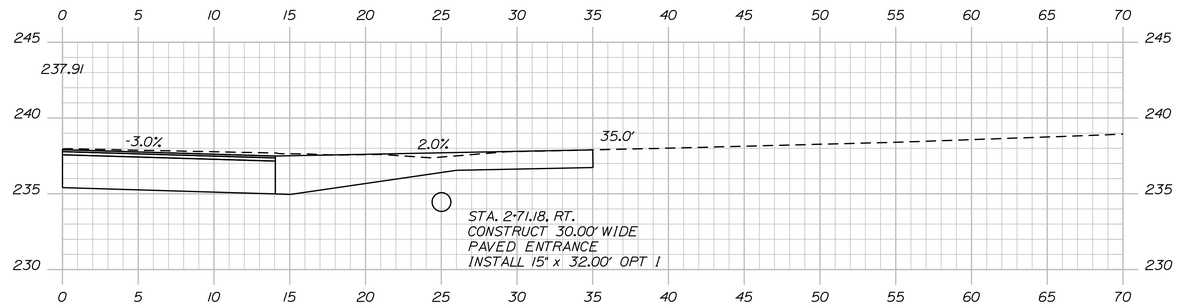
DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

PROFILES

SHEET NUMBER
23
OF 40

Filename: ...\msta\023_ProfileMines.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012



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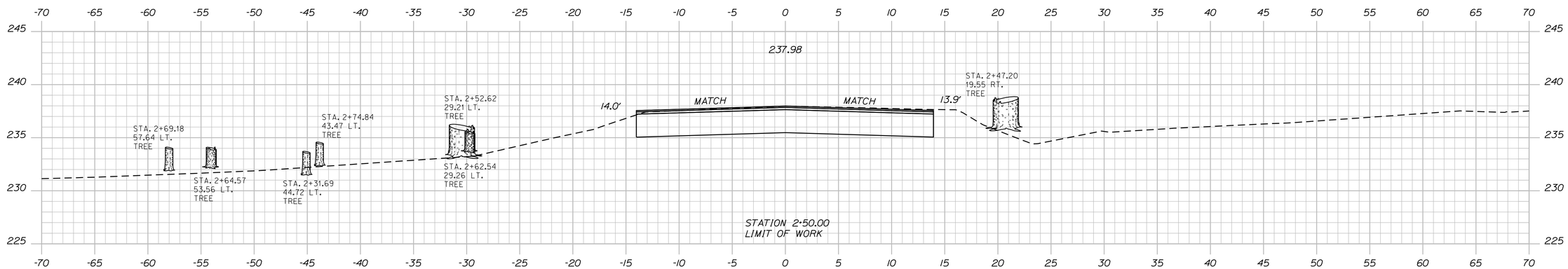

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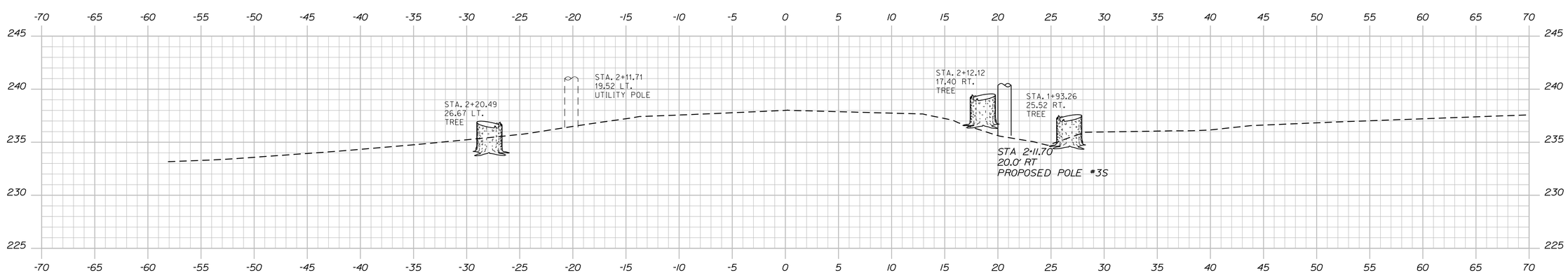


2+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU/M. SWINDELLS	11/2012
CHECKED-REVIEWED	------	------
DESIGN2-DETAILED2	------	------
DESIGN3-DETAILED3	------	------
REVISIONS 1	------	------
REVISIONS 2	------	------
REVISIONS 3	------	------
REVISIONS 4	------	------
FIELD CHANGES	------	------

SIGNATURE

P.E. NUMBER

DATE

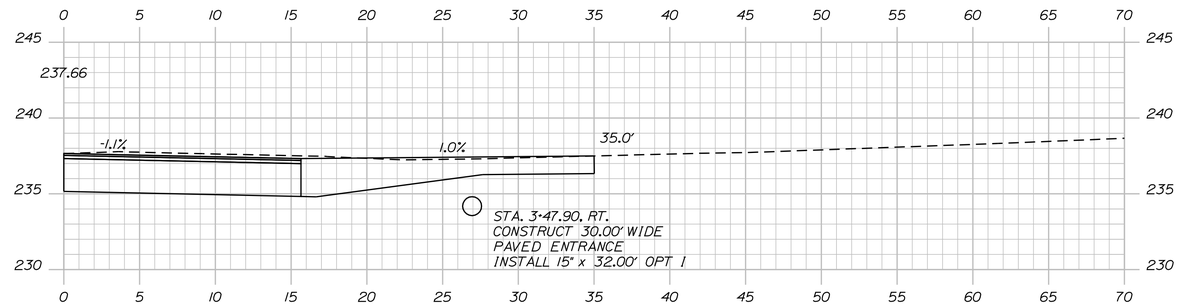
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

BEECH HILL ROAD
CROSS SECTIONS

SHEET NUMBER
24
OF 40

Sta. 2+00.00 to Sta. 2+71.18

Filename: ...\msta\024_Xsect_2+00_001.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



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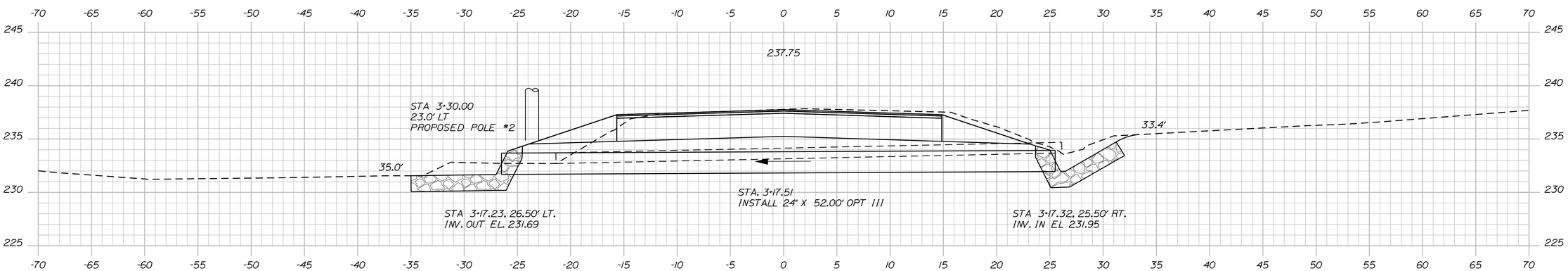

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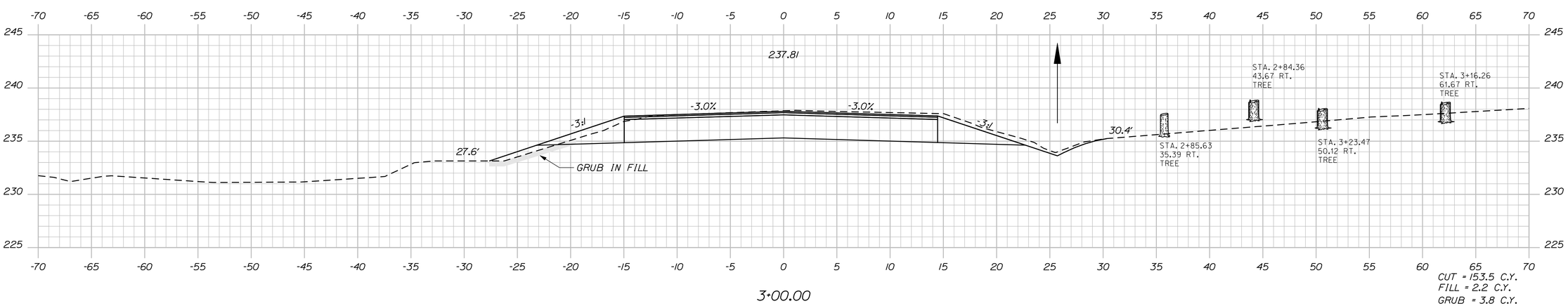


3+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

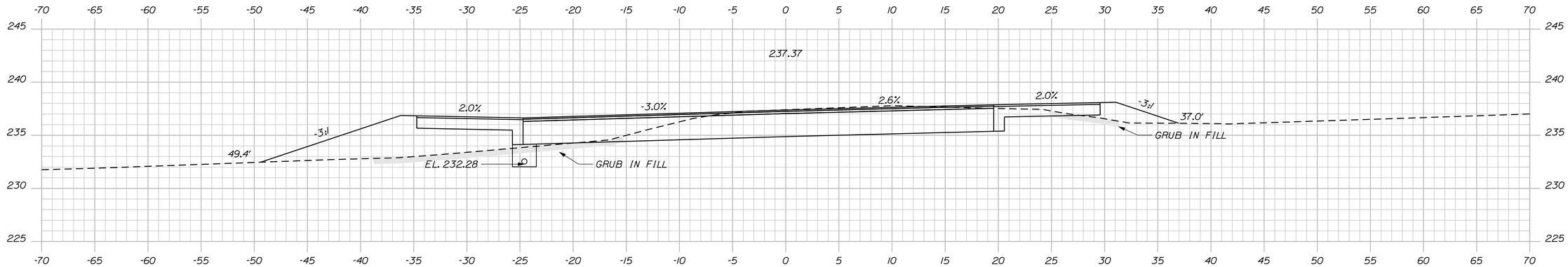
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

BEECH HILL ROAD
CROSS SECTIONS

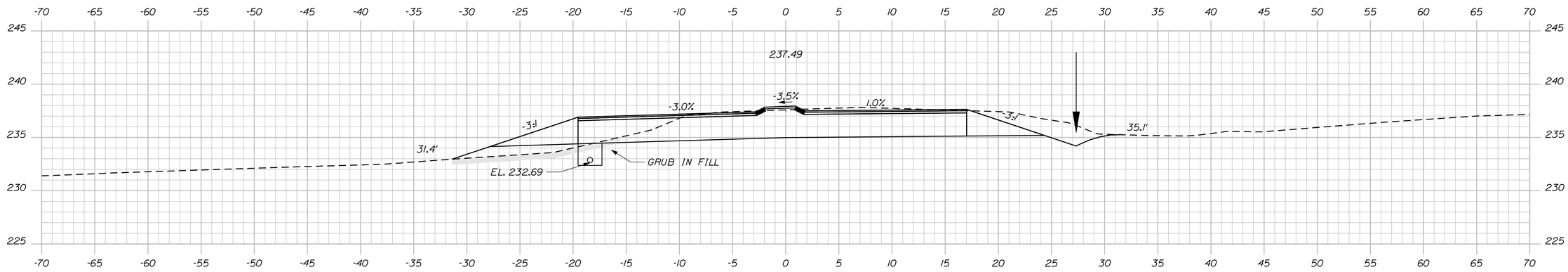
SHEET NUMBER
25
OF 40

Sta. 3+00.00 to Sta. 3+47.90

Filename: ...\msta\025_Xsect_3+00_002.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



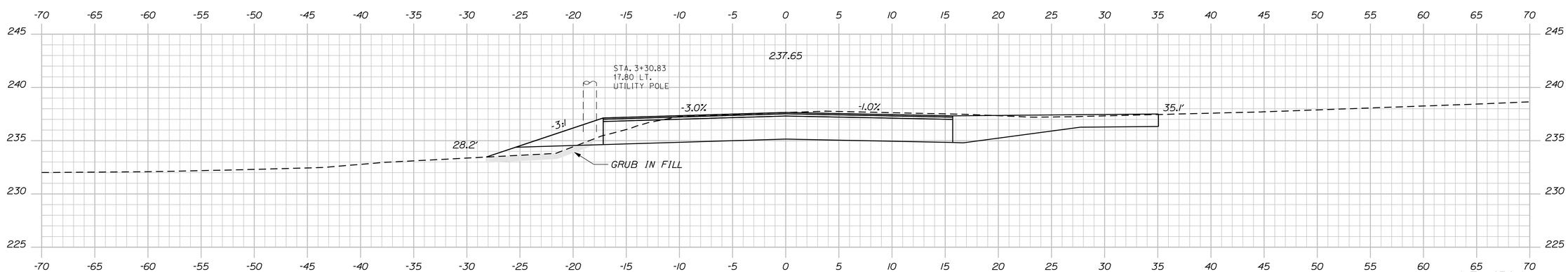
4+35.00



STA. 3+95.00 LT. TO CB#4
INSTALL 6" X 101.70' UD TYPE B

4+00.00

CUT = 167.6 C.Y.
FILL = 11.7 C.Y.
GRUB = 12.1 C.Y.



3+50.00

CUT = 163.6 C.Y.
FILL = 6.3 C.Y.
GRUB = 8.5 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU/M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

DATE

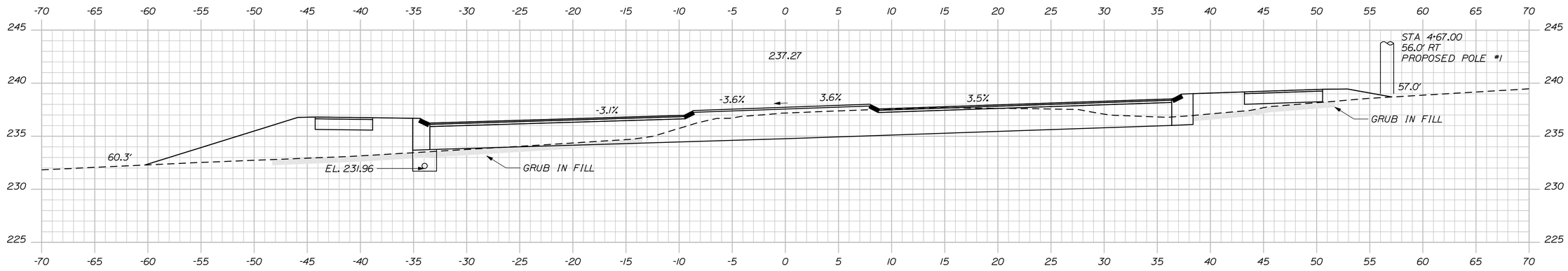
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

BEECH HILL ROAD
CROSS SECTIONS

SHEET NUMBER
26
OF 40

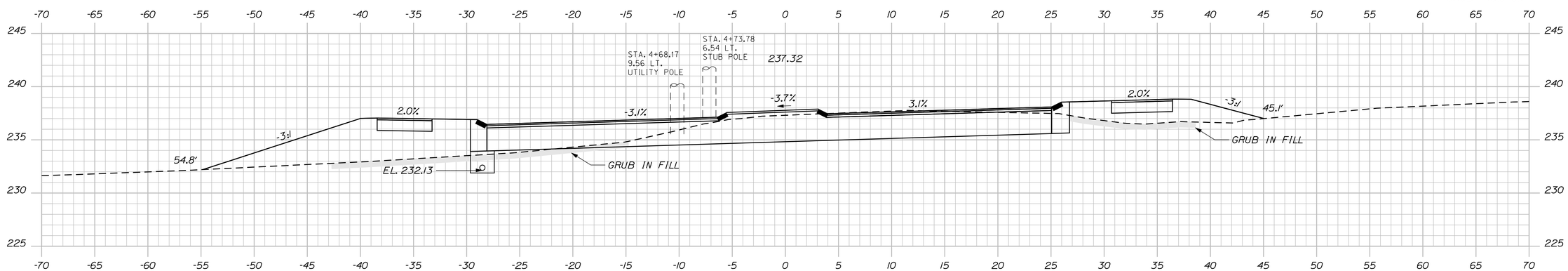
Filename: ...\msto\026_Xsect_3+50_003.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

Sta. 3+50.00 to Sta. 4+35.00



4+67.00

CUT = 60.4 C.Y.
FILL = 52.4 C.Y.
GRUB = 13.9 C.Y.



4+50.00

CUT = 176.8 C.Y.
FILL = 89.8 C.Y.
GRUB = 25.8 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS 11/2012
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

DATE

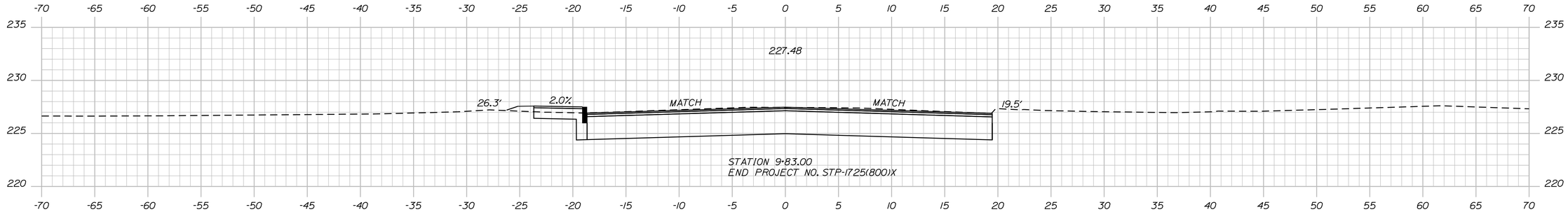
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

BEECH HILL ROAD
CROSS SECTIONS

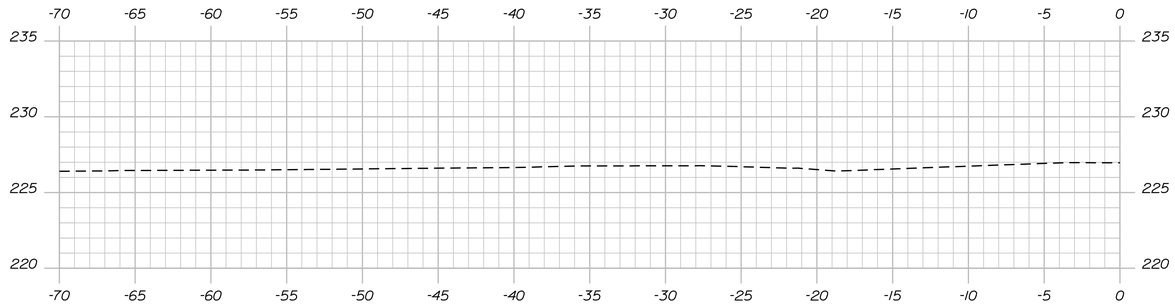
SHEET NUMBER
27
OF 40

Sta. 4+50.00 to Sta. 4+71.23

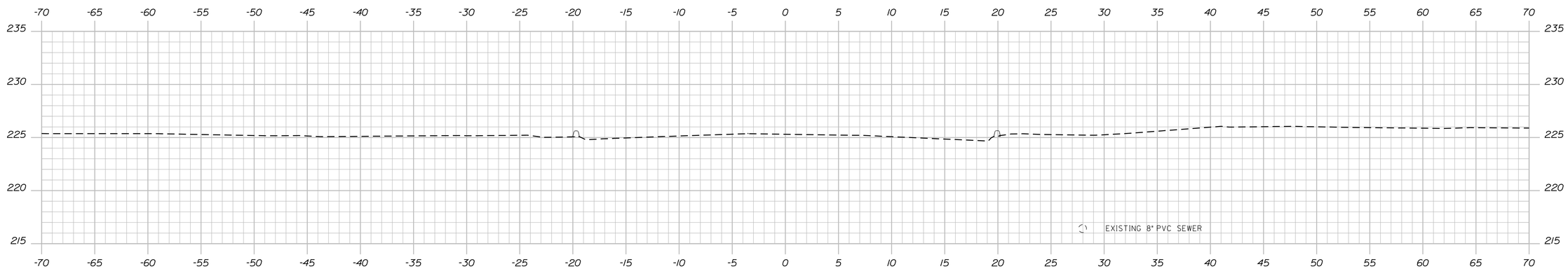
Filename: ...\msta\027_Xsect_4+50_004.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



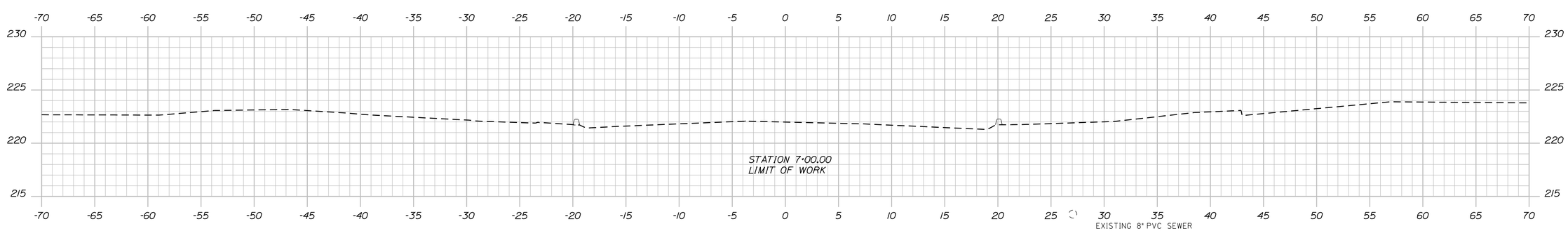
9+83.00



9+75.00



9+50.00



9+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

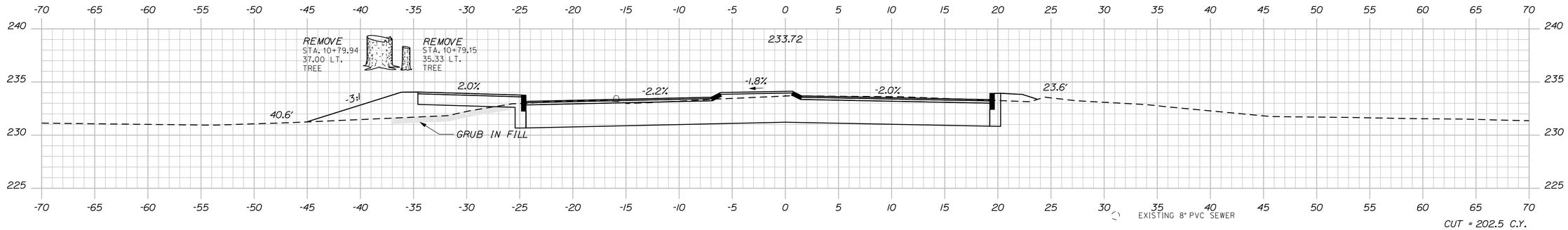
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

TENNEY HILL ROAD
CROSS SECTIONS

SHEET NUMBER
28
OF 40

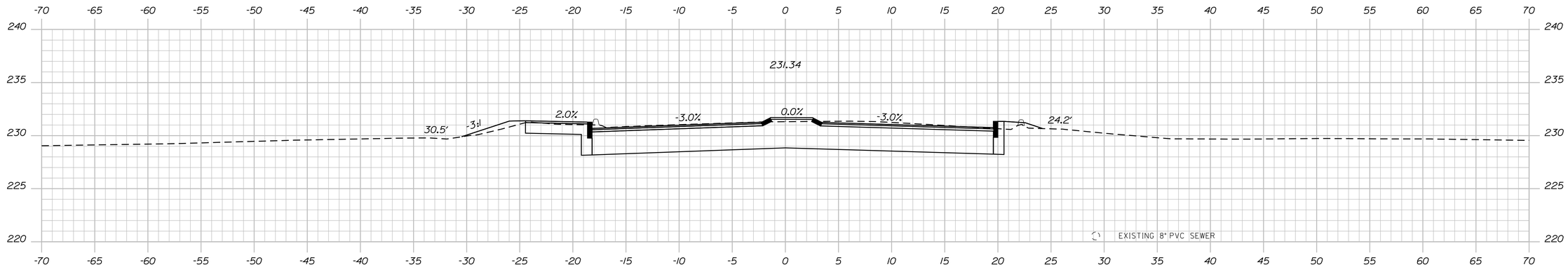
Sta. 9+00.00 to Sta. 9+83.00

Filename: ...\msta\028_Xsect_9+00_005.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



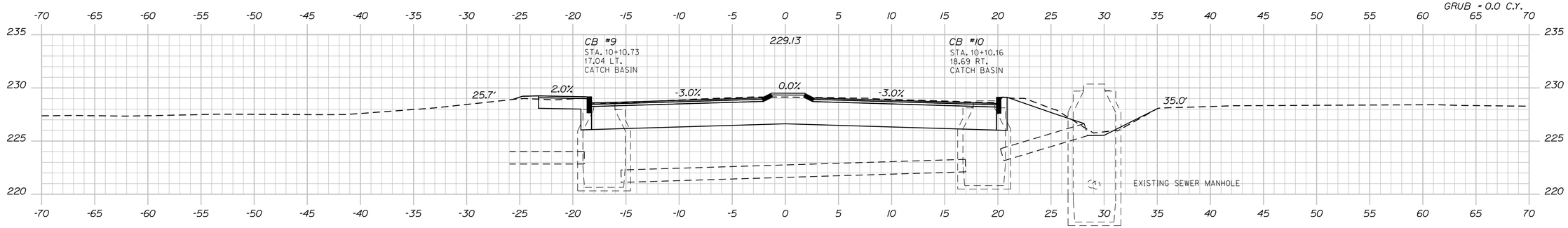
11+00.00

CUT = 202.5 C.Y.
FILL = 23.0 C.Y.
GRUB = 5.2 C.Y.

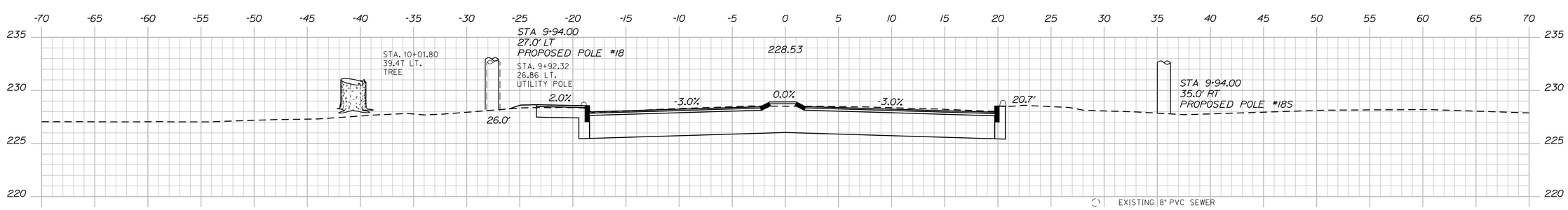


10+50.00

CUT = 199.6 C.Y.
FILL = 3.7 C.Y.
GRUB = 0.0 C.Y.



10+10.00



10+00.00

CUT = 64.7 C.Y.
FILL = 0.2 C.Y.
GRUB = 0.0 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(600)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

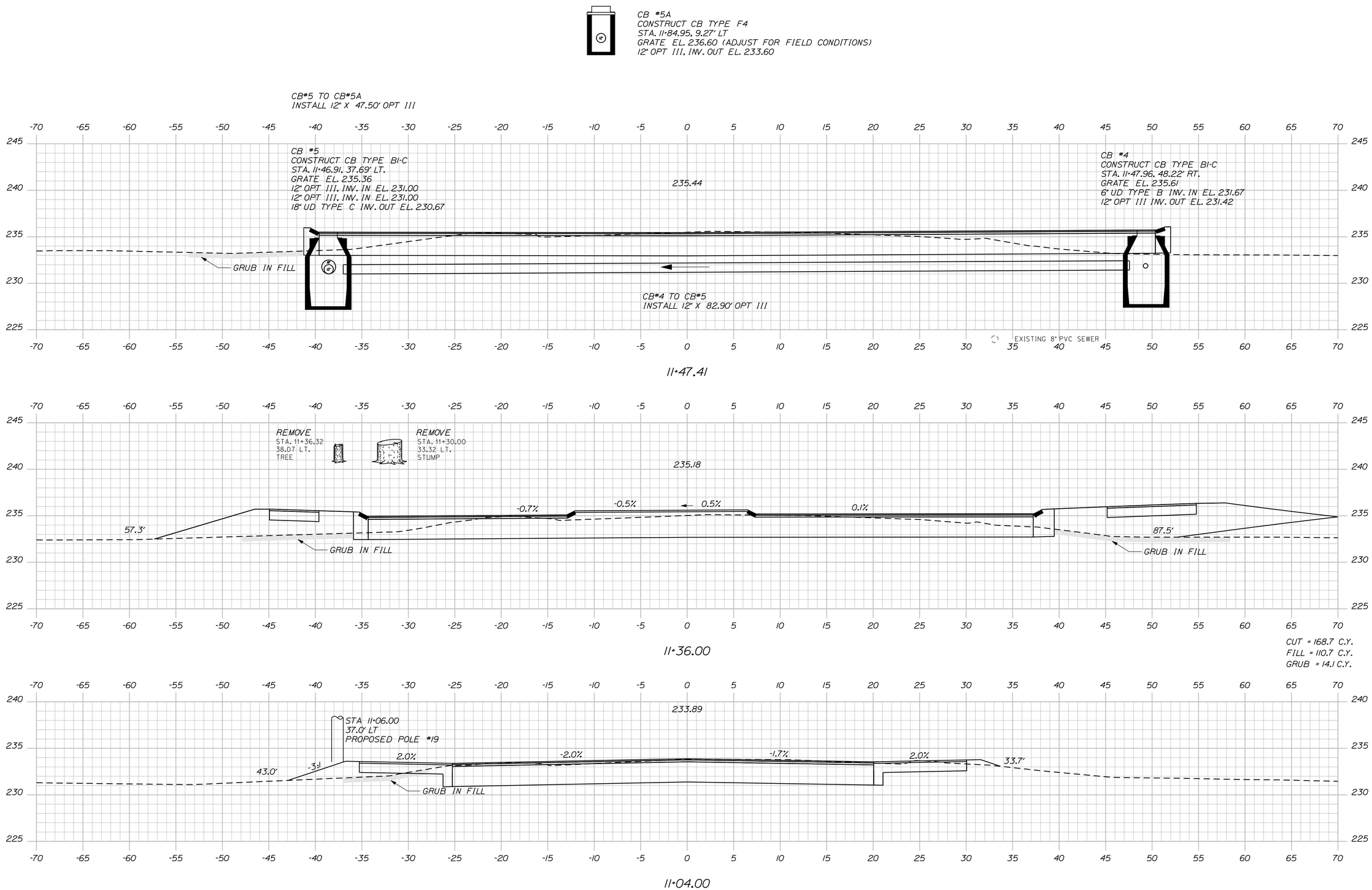
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

TENNEY HILL ROAD
CROSS SECTIONS

SHEET NUMBER
29
OF 40

Sta. 10+00.00 to Sta. 11+00.00

Filename: ...\msta\029_Xsect_10+00_006.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU/M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

DATE

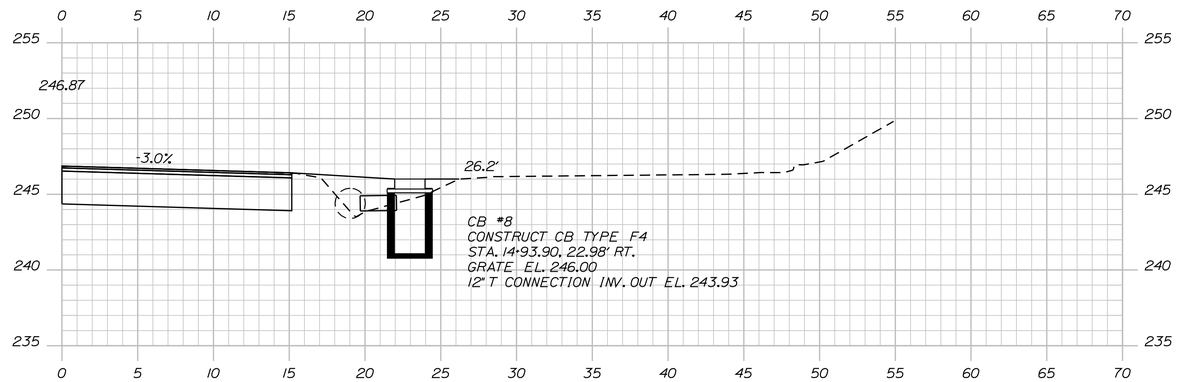
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

TENNEY HILL ROAD
CROSS SECTIONS

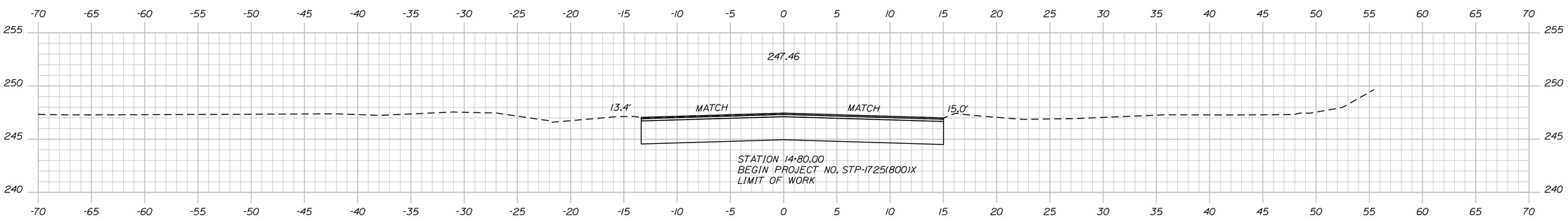
SHEET NUMBER
30
OF 40

Sta. 11+04.00 to Sta. 11+47.41

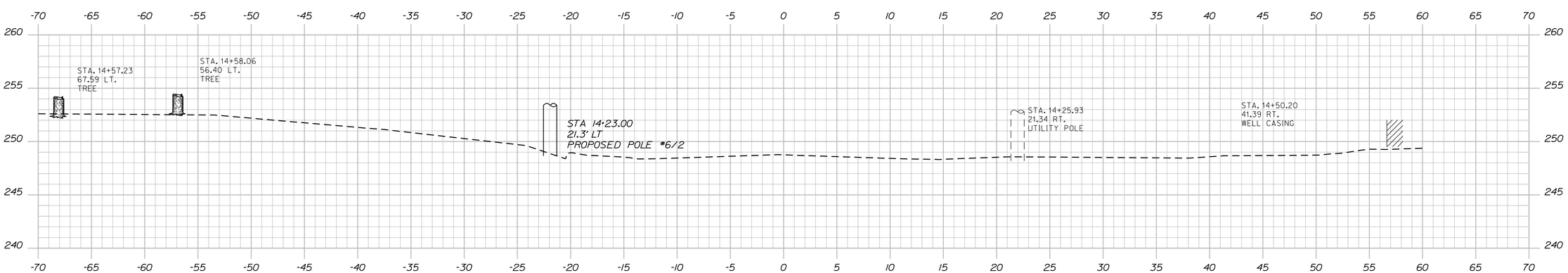
Filename: ...\msta\030_Xsect_11+04_007.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



14+94.00



14+80.00



14+50.00

Sta. 14+50.00 to Sta. 14+94.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL

RTE. 15\172\176 & BEECH HILL RD.

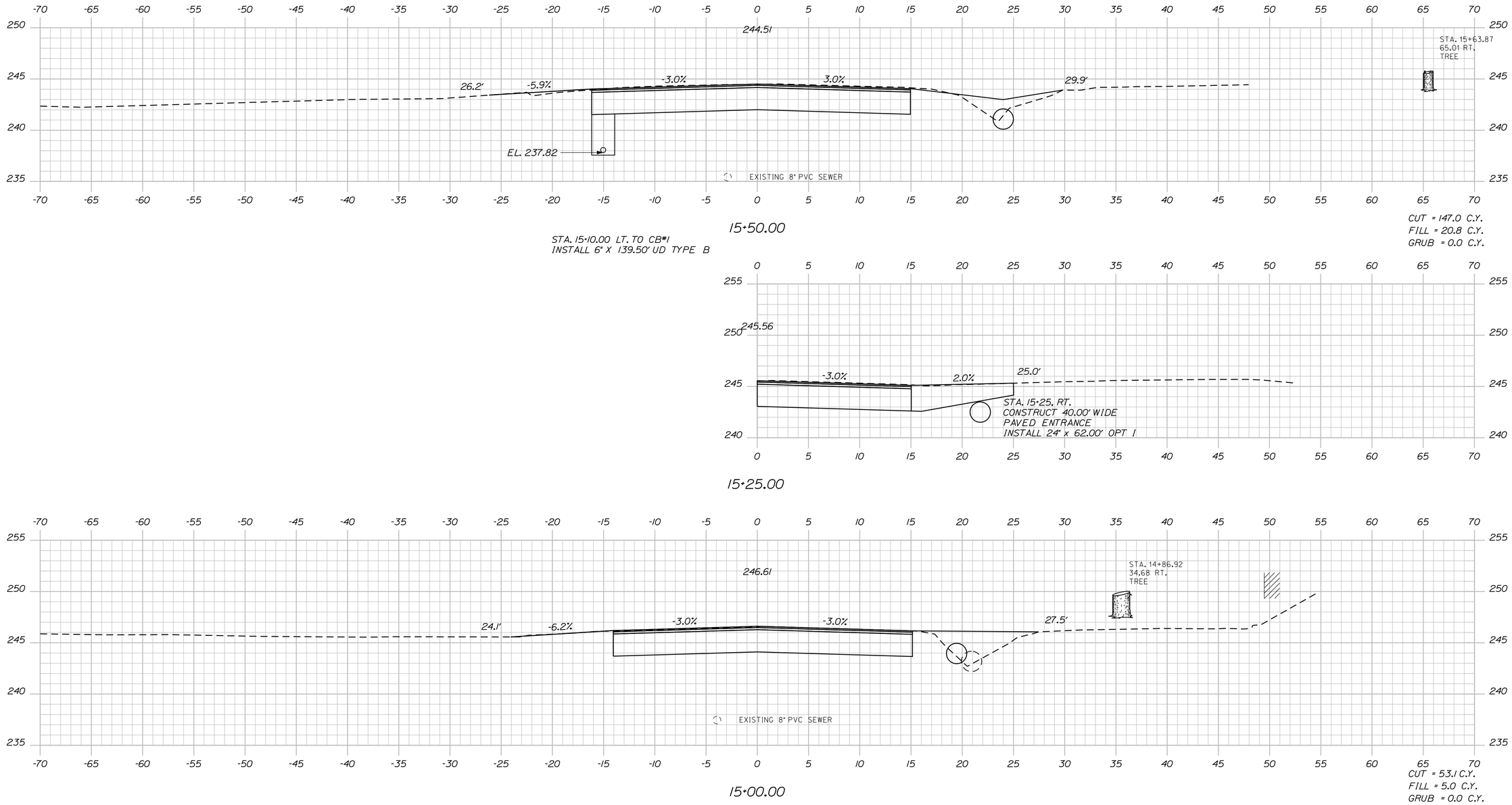
MINES ROAD
CROSS SECTIONS

SHEET NUMBER

31

OF 40

Filename: ...\msta\031_Xsect_14+50_008.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU/M. SWINDELLS		11/2012
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

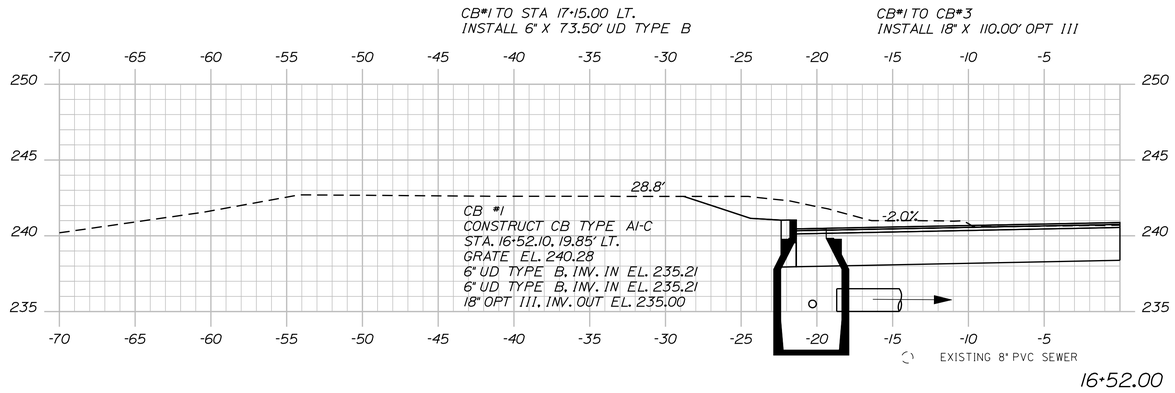
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

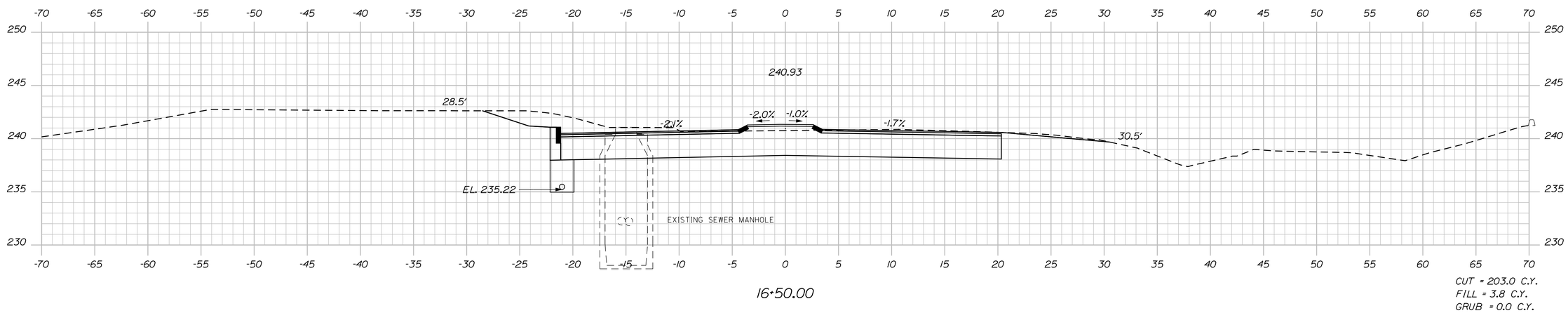
MINES ROAD
CROSS SECTIONS

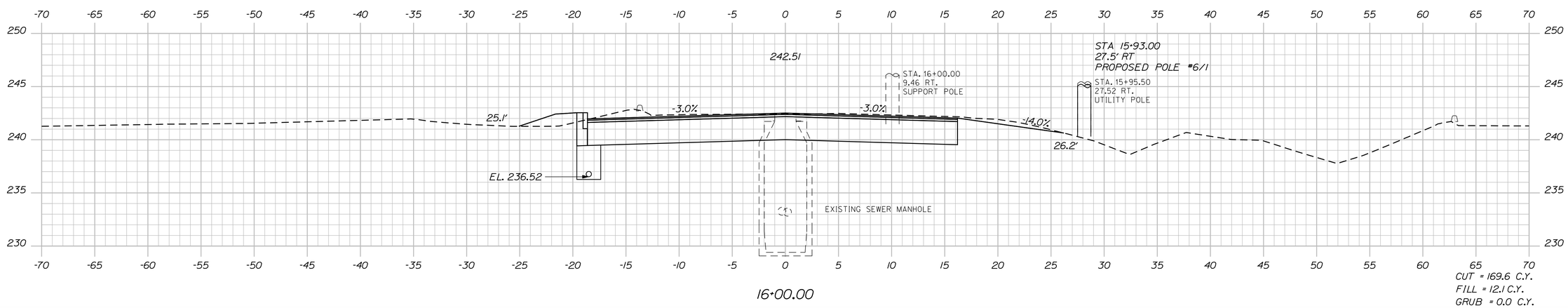
SHEET NUMBER
32
OF 40

Sta. 15+00.00 to Sta. 15+50.00

Filename: ...\msto\032_Xsect_15+00_009.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----		-----
REVISIONS 2	-----		-----
REVISIONS 3	-----		-----
REVISIONS 4	-----		-----
FIELD CHANGES	-----		-----

SIGNATURE

P.E. NUMBER

DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

MINES ROAD
CROSS SECTIONS

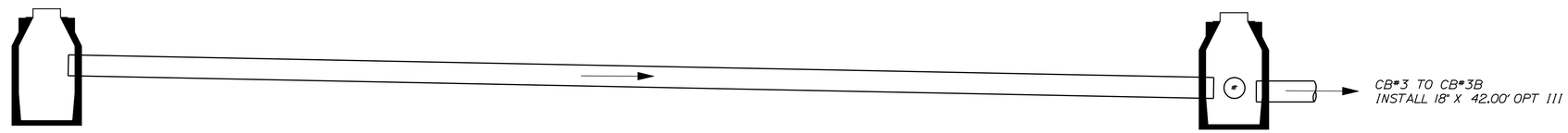
SHEET NUMBER
33
OF 40

Filename: ...\MSTA\033_Xsect_16+00_010.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

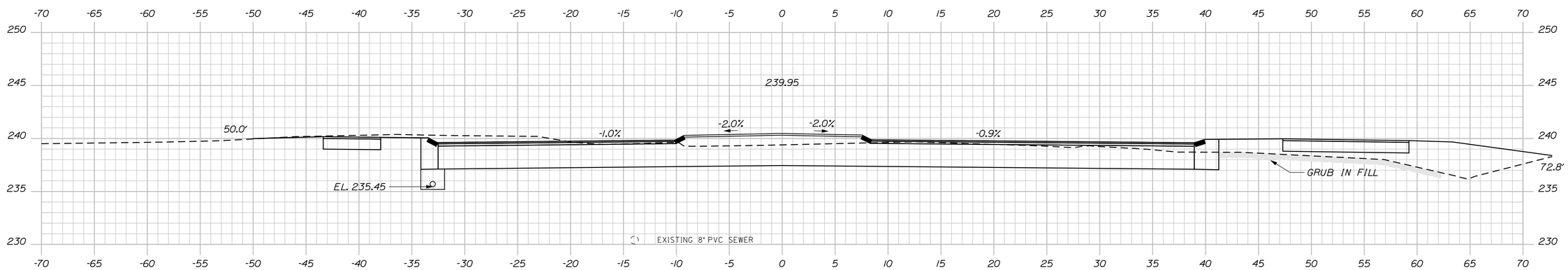
Sta. 16+00.00 to Sta. 16+52.00

CB #2
CONSTRUCT CB TYPE BI-C
STA. 17+41.75, 40.69' LT.
GRATE EL. 238.31
18" OPT III. INV. OUT EL. 233.50

CB #3
CONSTRUCT CB TYPE BI-C
STA. 17+50.11, 43.91' RT.
GRATE EL. 238.60
18" OPT III. INV. IN EL. 232.50
18" OPT III. INV. IN EL. 232.50
18" OPT III. INV. OUT EL. 232.25

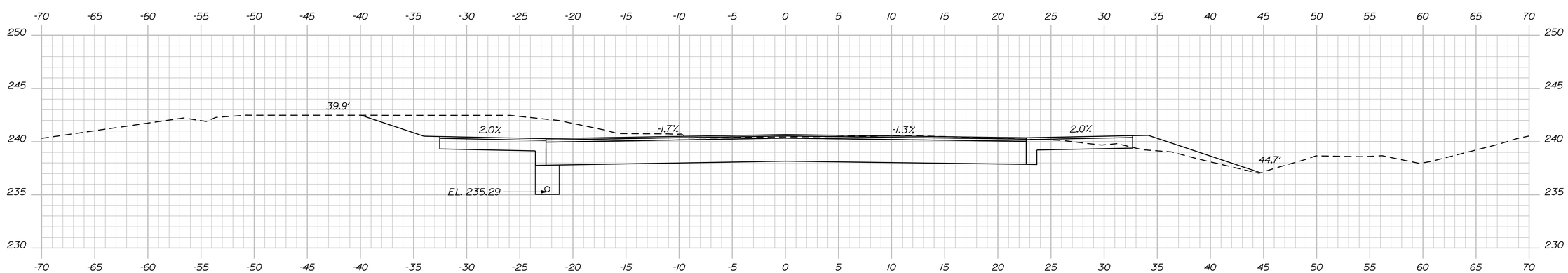


CB*2 TO CB*3
INSTALL 18" X 83.00' OPT III



16+92.00

CUT = 233.7 C.Y.
FILL = 34.1 C.Y.
GRUB = 8.2 C.Y.



16+60.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS 11/2012
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

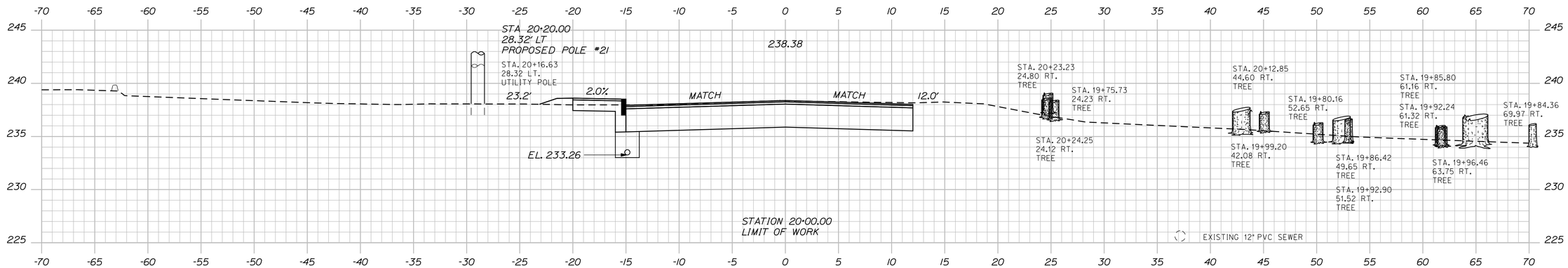
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

MINES ROAD
CROSS SECTIONS

SHEET NUMBER
34
OF 40

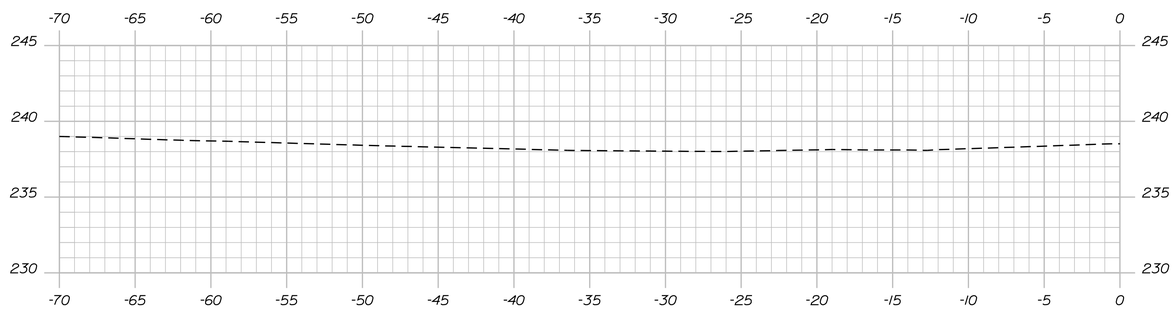
Filename: ...\msta\034_Xsect_16+92_011.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012

Sta. 16+92.00 to Sta. 16+93.78

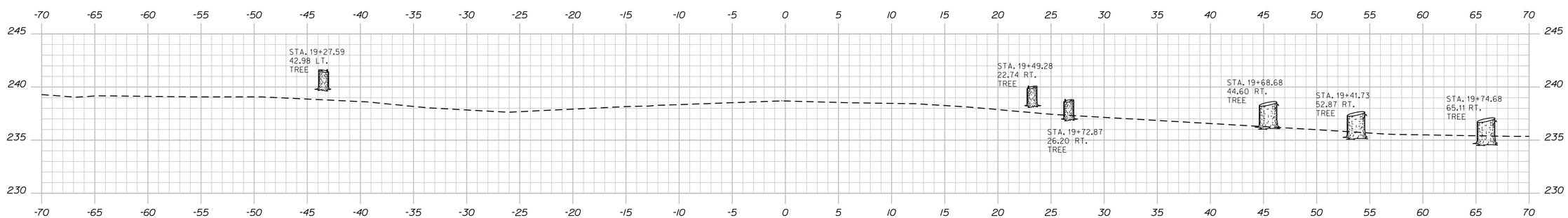


STA. 20+00.00 LT. TO CB#6
INSTALL 6" X 150.70' UD TYPE B

20+00.00



19+75.00



19+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN
17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

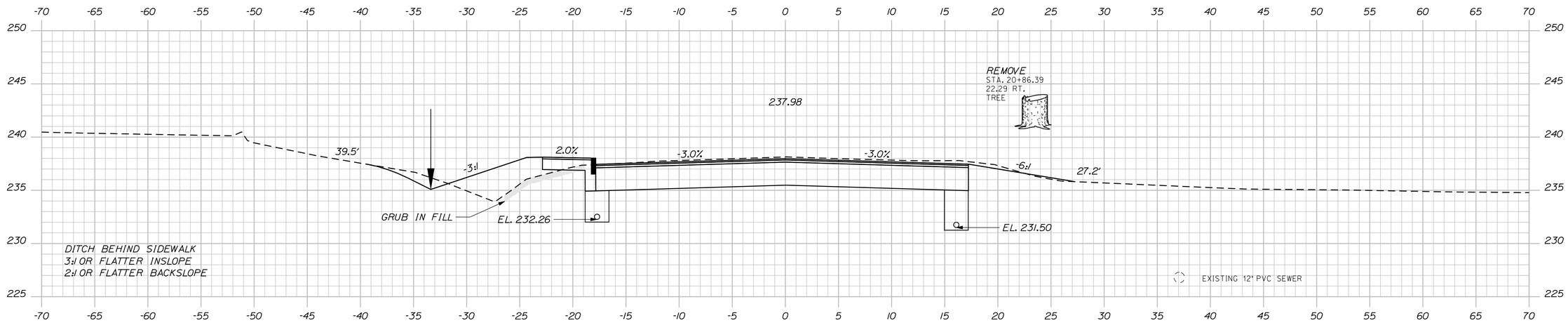
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

SOUTH STREET
CROSS SECTIONS

SHEET NUMBER
35
OF 40

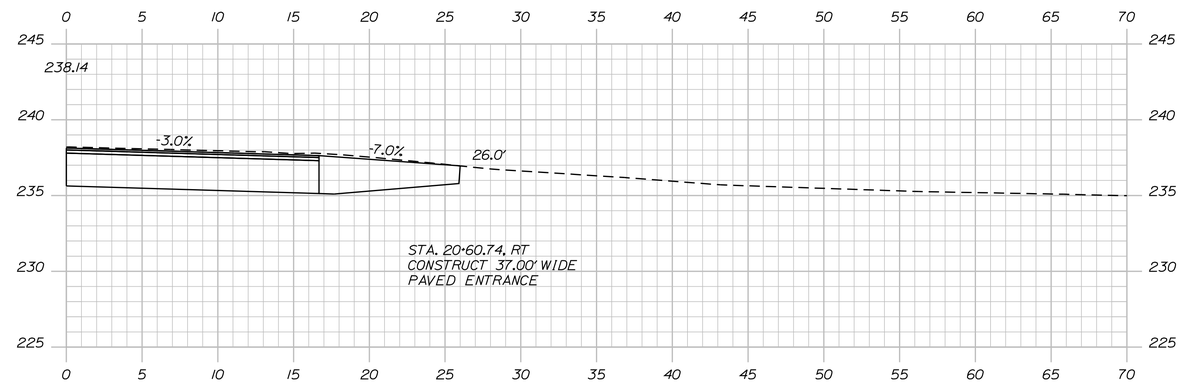
Filename: ...\msta\035_Xsect_19+50_012.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

Sta. 19+50.00 to Sta. 20+00.00

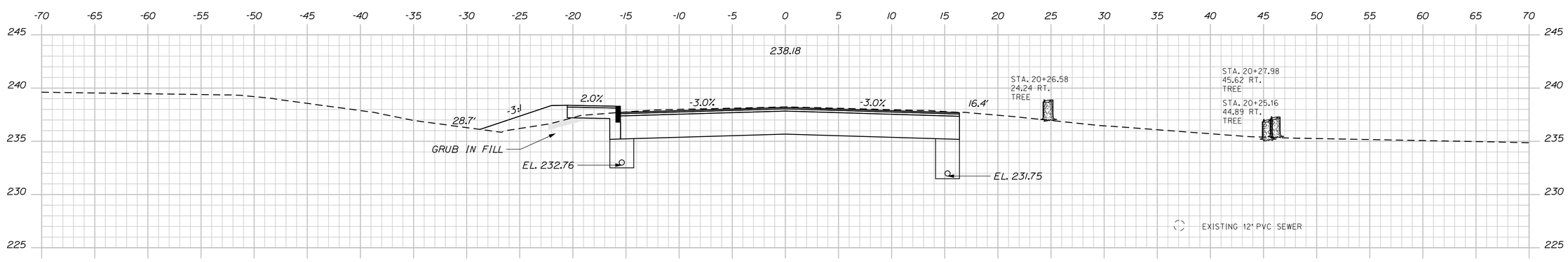


21+00.00

CUT = 169.7 C.Y.
FILL = 25.4 C.Y.
GRUB = 5.5 C.Y.



20+60.74



20+50.00

STA. 20+50.00 RT. TO CB#7
INSTALL 6" X 102.7' UD TYPE B

CUT = 147.3 C.Y.
FILL = 9.6 C.Y.
GRUB = 1.7 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

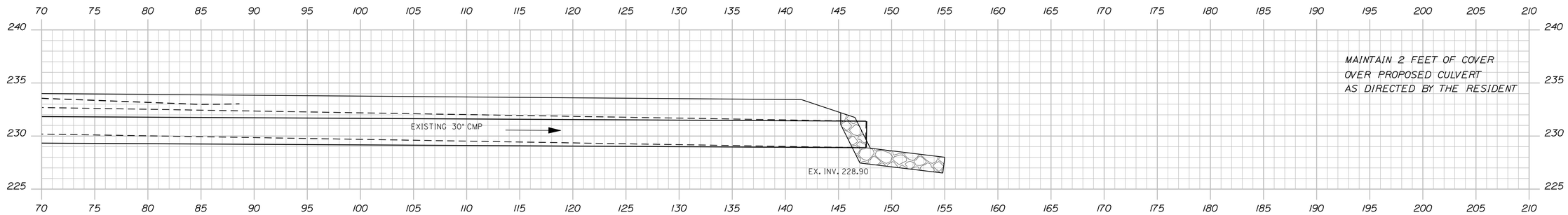
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

SOUTH STREET
CROSS SECTIONS

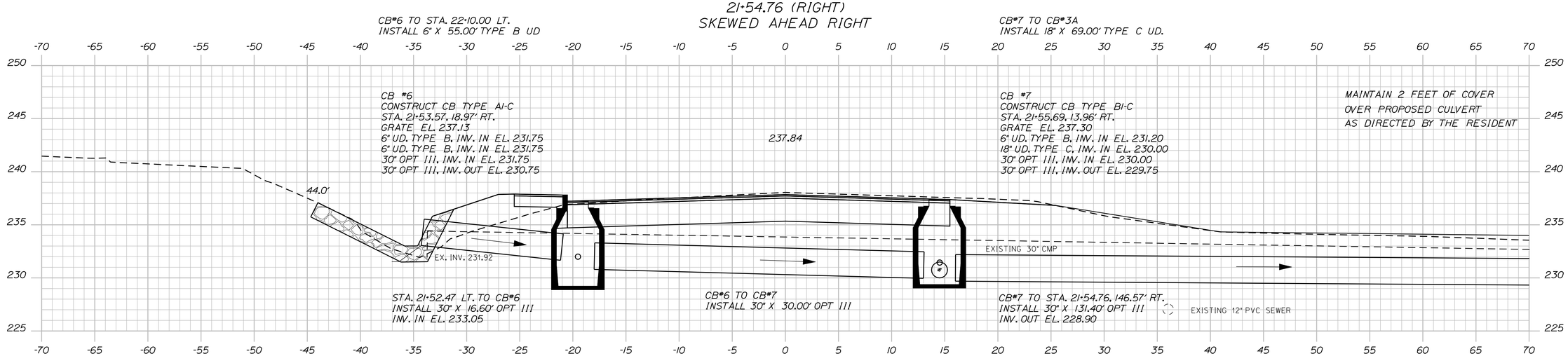
SHEET NUMBER
36
OF 40

Sta. 20+50.00 to Sta. 21+00.00

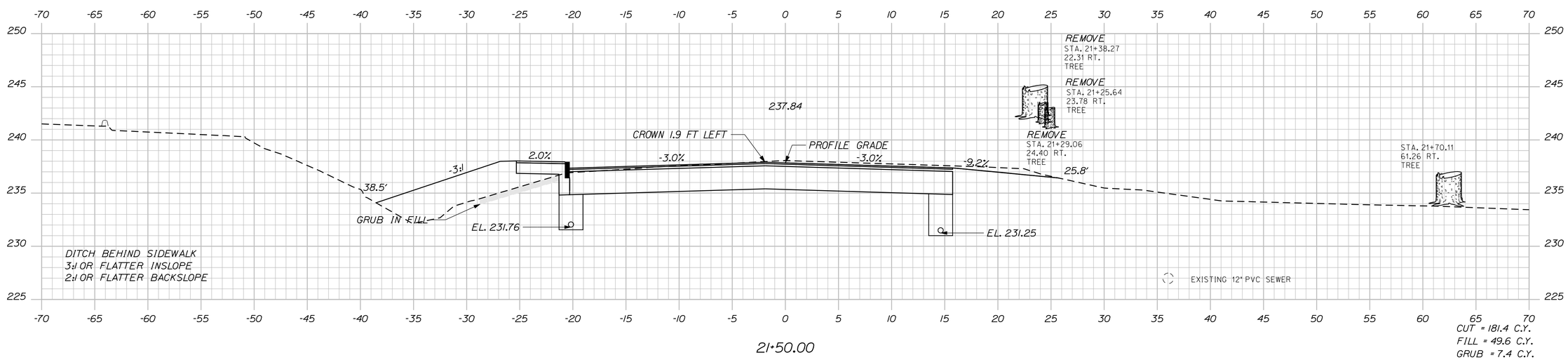
Filename: ...\msta\036_Xsect_20+50_013.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012



21+54.76 (RIGHT)
SKEWED AHEAD RIGHT



21+54.76
SKEWED AHEAD RIGHT



21+50.00

CUT = 181.4 C.Y.
FILL = 49.6 C.Y.
GRUB = 7.4 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU/M. SWINDELLS	11/2012
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

DATE

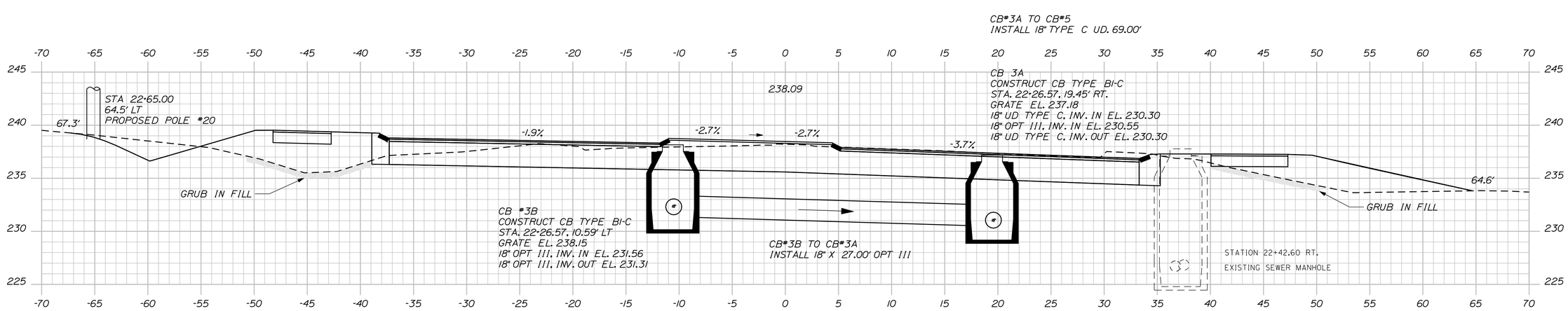
BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

SOUTH STREET
CROSS SECTIONS

SHEET NUMBER
37
OF 40

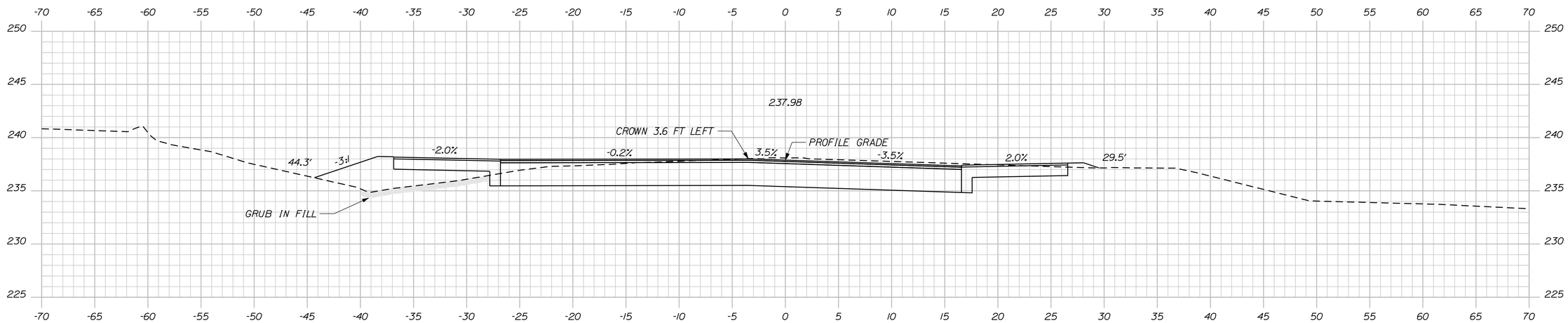
Sta. 21+50.00 to Sta. 21+54.76

Filename: ...\msla\037_Xsect_21+50_014.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

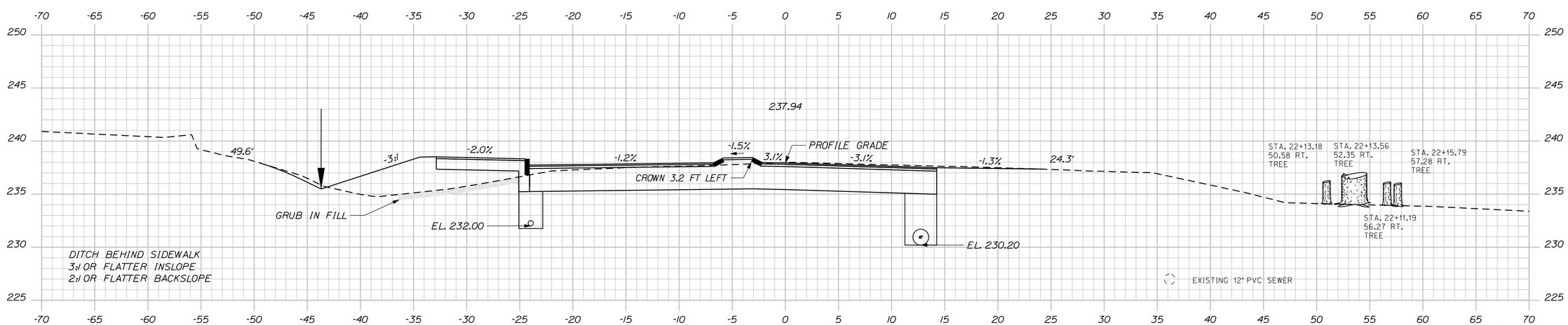


22+46.00

CUT = 228.0 C.Y.
FILL = 90.5 C.Y.
GRUB = 14.3 C.Y.



22+14.00



22+00.00

CUT = 179.4 C.Y.
FILL = 62.3 C.Y.
GRUB = 8.8 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. STP-1725(800)X

WIN 17258.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	A. MOUSSEAU/M. SWINDELLS	11/2012
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

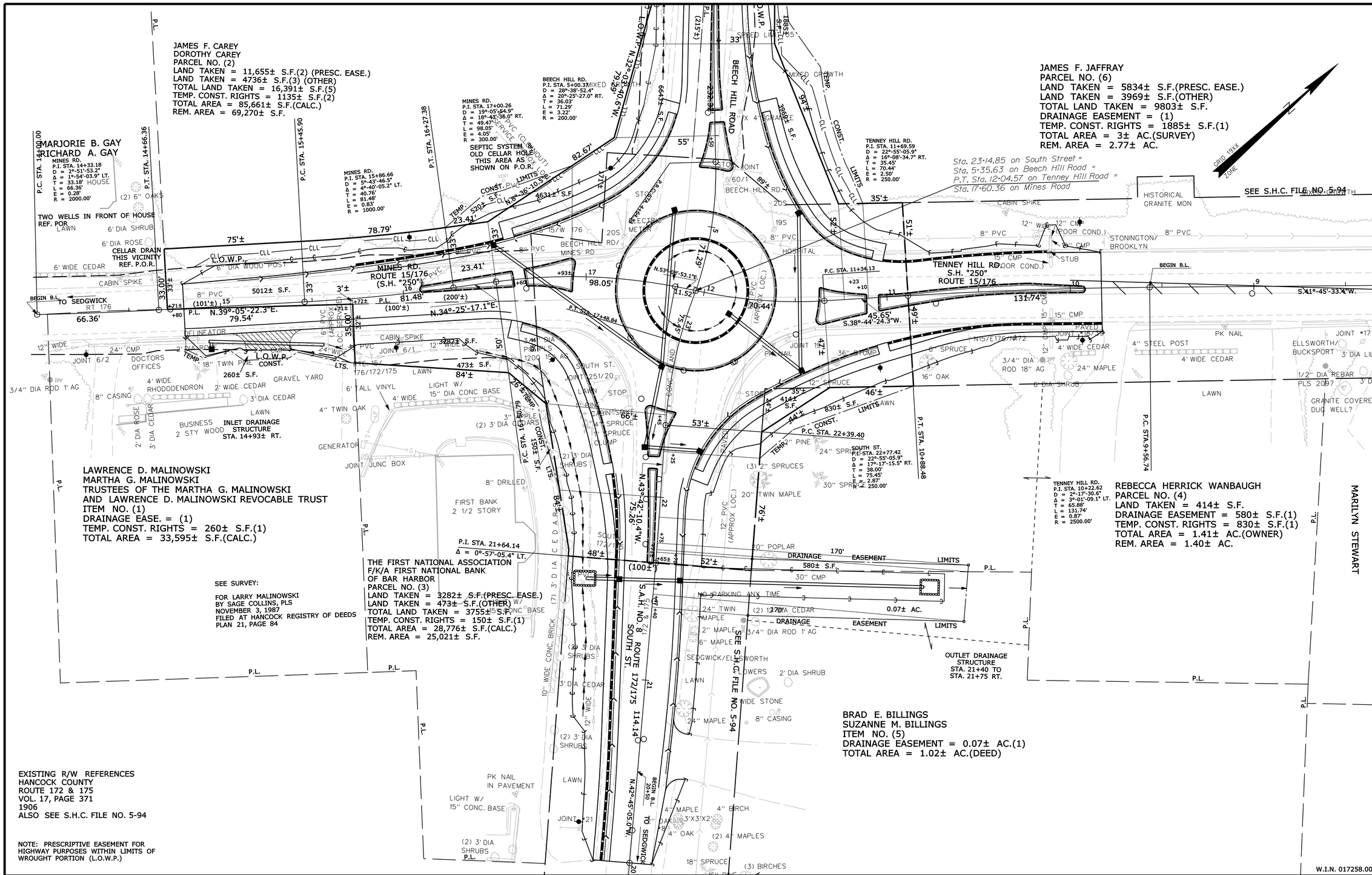
DATE

BLUE HILL
RTE. 15\172\176 & BEECH HILL RD.

SOUTH STREET
CROSS SECTIONS

SHEET NUMBER
38
OF 40

Sta. 22+00.00 to Sta. 22+46.00



W.I.N. 017258.00

SYMBOLS

- (WELL) WELL
- GRADING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE - P.L.
- LIMITS OF WROUGHT PORTION (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- ST. (SEPTIC TANK)
- (ROW MONUMENT)
- ⊕BM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	BDM	
PROP. LINES	BDM	
AREAS	T.L.B.	T.J.K.

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

BLUE HILL
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
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE

STATE HIGHWAY "250"/STATE AID HIGHWAY NO. 8
MINES RD./TENNEY HILL RD./SOUTH ST./BEECH HILL RD.

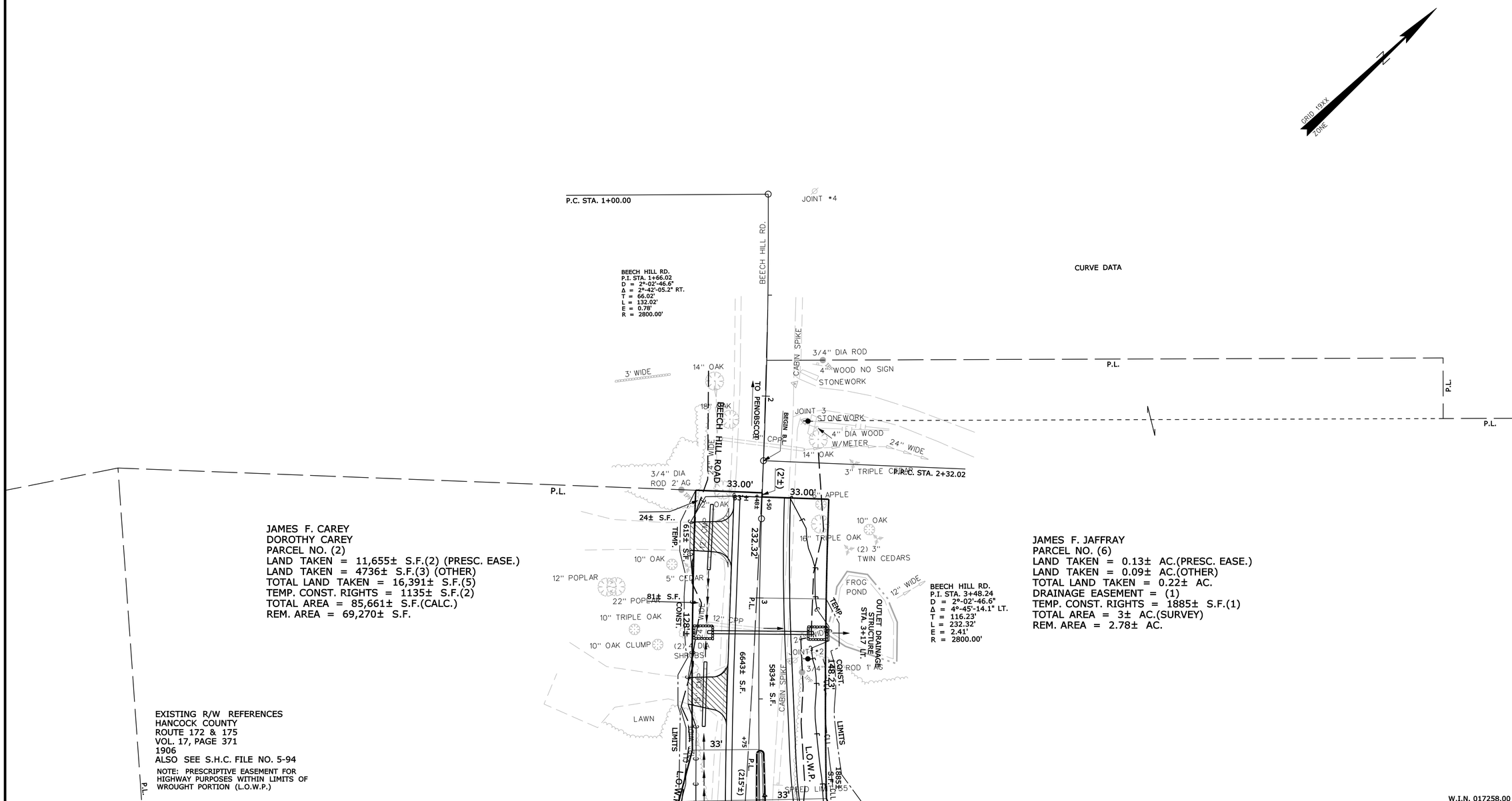
BLUE HILL HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-1725(800)X

AUGUST 2012 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 5-293
SCALE 1" = 25' | SHEET 1 OF 2

SHEET NUMBER
39
OF 40

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: Allee.Mousseau Date:11/26/2012

Filename: ...\00\ROW\MSTA\002_RWPLAN2.dgn Division: HIGHWAY Username: Atlee.Mousseau Date:11/26/2012



SYMBOLS

- ● IP or ● P/P (IRON PIPE or PIN FOUND)
- ☐ S.T. (SEPTIC TANK)
- ⊠ (ROW MONUMENT)
- &BM (TRAVERSE POINT)
- ○WELL (WELL)
- GROUNDING UNIT LINE
- CONSTRUCTION UNIT LINE
- PROPERTY LINE
- LIMITS OF WROUGHT PORTION (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- —W— WATER LINE
- —G— GAS LINE
- —E— ELECTRIC LINE
- —T— TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	BDM	
PROP. LINES	BDM	
AREAS	T.L.B.	T.J.K.

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

BLUE HILL
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
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KENNETH L. SWEENEY
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DATE

STATE HIGHWAY "250"/STATE AID HIGHWAY NO. 8
MINES RD./TENNEY HILL RD./SOUTH ST./BEECH HILL RD.

BLUE HILL HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-1725(800)X

AUGUST 2012 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 5-293
SCALE 1" = 25' | SHEET 2 OF 2

SHEET NUMBER
40
OF 40