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

HERMON

PENOBSCOT COUNTY

RTE. 2 & BILLINGS RD.

STP-1788(700)X

PROJECT LENGTH : 0.27 MILES

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2-3
Estimated Quantities/Earthwork Summary	4
Drainage Sheet	5
General Notes	6
Construction Notes	7-8
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Traffic Signal Plan	10
Geometric Plans	11-14
Plans	15-18
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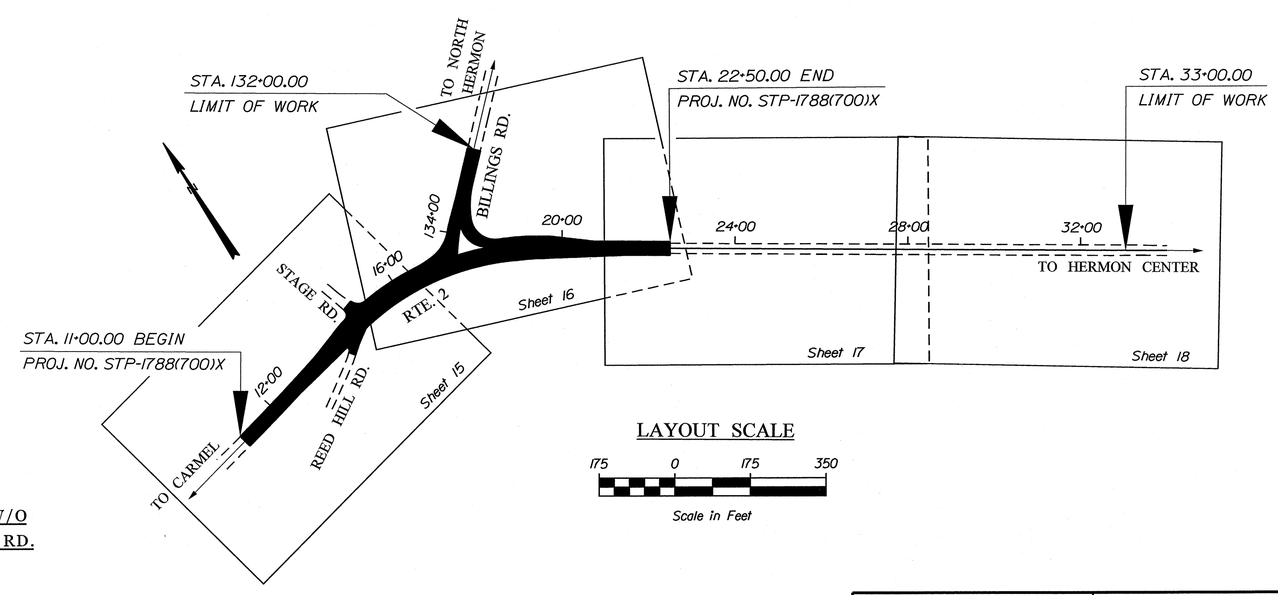
TRAFFIC DATA

	BILLINGS RD. (NE/O RTE. 2)
Current (2015) AADT	4790
Future (2035) AADT	6230
DHV - % of AADT	11%
Design Hour Volume	697
% Heavy Trucks (AADT)	5%
% Heavy Trucks (DHV)	4%
Directional Distribution (DHV)	59%
18 kip Equivalent P 2.0	145
18 kip Equivalent P 2.5	138
Design Speed (mph)	30
Functional Class:	Major Collector



LAYOUT SCALE

175 0 175 350

Scale in Feet

TRAFFIC DATA

	RTE. 2 (S/O BILLINGS RD.	RTE. 2 (W/O BILLINGS RD.
Current (2015) AADT	11260	9410
Future (2035) AADT	14640	12230
DHV - % of AADT	10%	11%
Design Hour Volume	1522	1387
% Heavy Trucks (AADT)	5%	5%
% Heavy Trucks (DHV)	3%	3%
Directional Distribution (DHV)	71%	69%
18 kip Equivalent P 2.0	593	536
18 kip Equivalent P 2.5	565	511
Design Speed (mph)	35	35
Functional Class:	Major Collector	Major Collector

PROJECT LOCATION:	INTERSECTION OF ROUTE 2 AND BILLINGS ROAD
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	INTERSECTION REHABILITATION WITH SIGNAL

WIN 17887.00 STP-1788(700)X

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE
COMMISSIONER: 2/25/15
CHIEF ENGINEER: 2-24-15

STATE OF MAINE — Jonathan D. French — 13157 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
13157
P.E. NUMBER
1/30/15
DATE

PROJECT INFORMATION

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

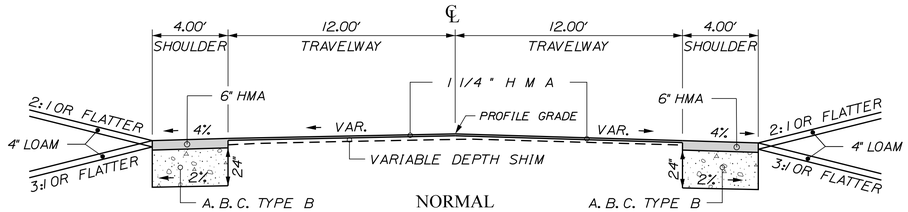
HERMON
RTE. 2 & BILLINGS RD.

TITLE SHEET

SHEET NUMBER
1
OF 29

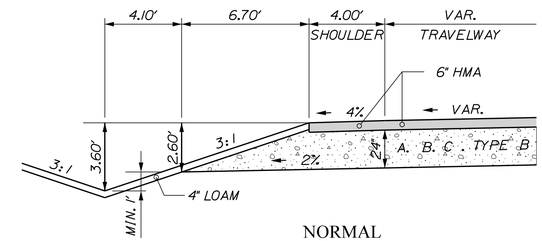
Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: Jonathon.French Date:1/30/2015

RTE. 2



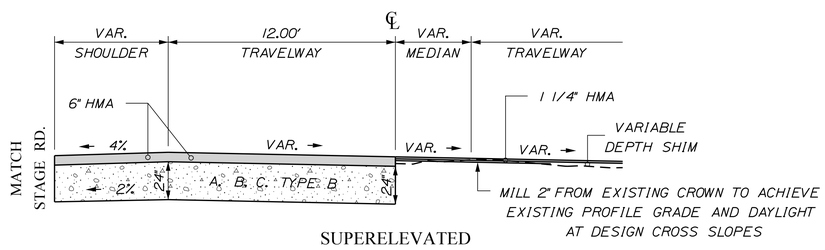
NORMAL

SHOULDER LT. 24" A. B. C. = 29.1 CY/100 LF	12' - 12' TRAVEL LANES	SHOULDER RT. 24" A. B. C. = 29.1 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
11+00.00 TO 12+50.00	11+00.00 TO 12+50.00	11+00.00 TO 12+50.00



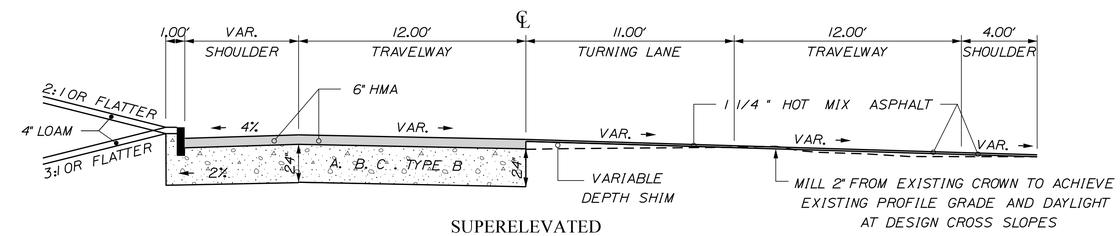
NORMAL

DITCH SHOULDER LT. 24" A. B. C. = 55.6 CY/100LF
STATION TO STATION
12+50.00 TO 13+75.00



SUPERELEVATED

SHOULDER LT. 24" A. B. C. = 7.4 CY/100 LF	12' TRAVEL LANE LT. 24" A. B. C. = 88.9 CY/100 LF	MEDIAN RT.
STATION TO STATION	STATION TO STATION	STATION TO STATION
14+33.00 TO 15+24.00	12+50.00 TO 15+45.00	14+46.11.00 TO 14+90.98



SUPERELEVATED

CURB SHOULDER LT. 24" A. B. C. = 7.4 CY/100 LF	12' TRAVEL LANE LT. 24" A. B. C. = 88.9 CY/100 LF	11' TURNING LANE RT.	12' TRAVEL LANE RT.
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
13+75.00 TO 14+33.00 15+24.00 TO 16+24.00	15+45.00 TO 18+08.00	15+45.00 TO 18+08.00	15+45.00 TO 18+08.00

CURB SHOULDER RT. 24" A. B. C. = 7.4 CY/100 LF
STATION TO STATION
14+84.19 TO 15+43.02

SHOULDER RT.
STATION TO STATION
15+43.02 TO 16+81.00

NOTE:

1. THE PAVEMENT AND BASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER. THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.

3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.

4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 4" LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.

5. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

LEGEND
: CURB TYPE 1
: CURB TYPE 5
EXISTING GROUND

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	J. FRENCH	SEP 2013
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	BT TRAN	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

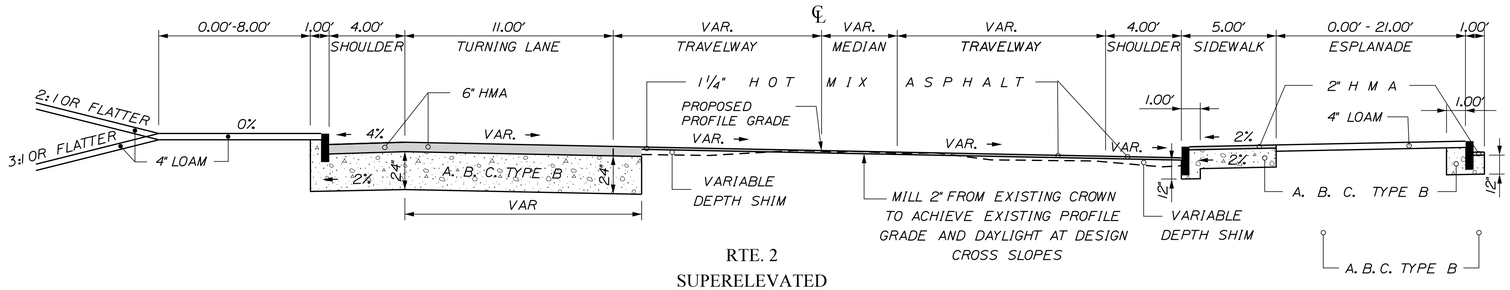
DATE

HERMON
RTE. 2 & BILLINGS RD.

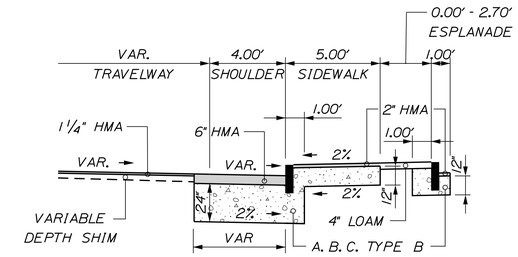
TYPICAL SECTIONS

SHEET NUMBER
2
OF 29

Filename: ...\MSTA\002_Typical01.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



RTE. 2
SUPERELEVATED

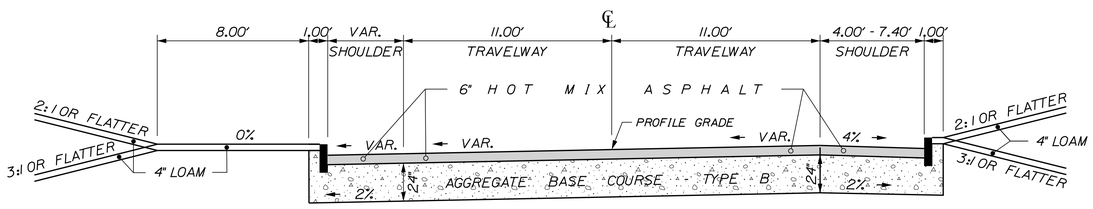


RTE. 2
SUPERELEVATED

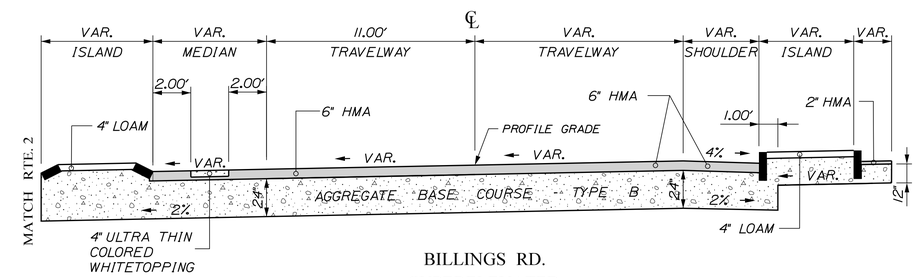
11' TURNING LANE LT. 24" A. B. C. = 92.6 CY/100 LF	TRAVEL LANE LT.	MEDIAN RT.	TRAVEL LANE RT.	SHOULDER RT. / SIDEWALK
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
18+50.00 TO 19+75.00	18+08.00 TO 22+50.00	18+08.00 TO 19+64.33	18+08.00 TO 22+50.00	16+81.00 TO 17+42.76 17+86.74 TO 18+50.00

CURB SHOULDER LT. 24" A. B. C. = 23.6 CY/100 LF
STATION TO STATION
18+50.00 TO 22+50.00

CURB SHOULDER LT. & RT. / SIDEWALK
STATION TO STATION
18+50.00 TO 22+50.00



BILLINGS RD.
SUPERELEVATED



BILLINGS RD.
SUPERELEVATED

CURB SHOULDER LT.	11'- 11' TRAVEL LANES 24" A. B. C. = 163 CY/100 LF	CURB SHOULDER RT.
STATION TO STATION	STATION TO STATION	STATION TO STATION
132+00.00 TO 133+82.50	132+00.00 TO 132+80.30	132+00.00 TO 134+21.93

MEDIAN LT.	TRAVEL LANE LT.	TRAVEL LANE RT.	CURB SHOULDER RT./ ISLAND
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
133+82.50 TO 134+50.00	132+80.30 TO 134+53.97	132+80.30 TO 134+53.97	134+21.93 TO 134+53.97

ISLAND
STATION TO STATION
134+14.50 TO 134+39.00

NOTE:

1. THE PAVEMENT AND BASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.

3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.

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5. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

LEGEND
: CURB TYPE 1
: CURB TYPE 5
EXISTING GROUND

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN
17887.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	J. FRENCH	SEP 2013
CHECKED-REVIEWED	BT TRAN	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

TYPICAL SECTIONS

SHEET NUMBER
3
OF 29

Filename: ...\MSTA\003_Typical02.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.11	REMOVING PORTLAND CEMENT CONCRETE PAVEMENT	215	SY
202.15	REMOVING MANHOLE OR CATCH BASIN	5	EA
202.202	REMOVING PAVEMENT SURFACE	940	SY
202.203	PAVEMENT BUTT JOINTS	235	SY
203.20	COMMON EXCAVATION	3900	CY
203.2312	HEALTH AND SAFETY PLAN	1	LS
203.2333	DISPOSAL OF SPECIAL EXCAVATION	50	T
304.15	AGGREGATE BASE COURSE - TYPE B	3100	CY
403.209	HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	130	T
403.210	HOT MIX ASPHALT 9.5 MM	475	T
403.211	HOT MIX ASPHALT (SHIMMING)	175	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	1010	T
409.15	BITUMINOUS TACK COAT - APPLIED	480	G
420.42	COLORED ULTRA THIN BONDED WHITETOPPING	7	CY
603.175	18 INCH REINFORCED CONCRETE PIPE CLASS III	24	LF
603.179	18 INCH CULVERT PIPE OPTION III	340	LF
603.19	24 INCH CULVERT PIPE OPTION I	50	LF
603.199	24 INCH CULVERT PIPE OPTION III	180	LF
603.201	30 INCH CORRUGATED METAL PIPE	12	LF
603.239	48 INCH CULVERT PIPE OPTION III	40	LF
603.55	CONCRETE PIPE TIES	1	GP
604.072	CATCH BASIN TYPE AI-C	3	EA
604.09	CATCH BASIN TYPE BI	2	EA
604.092	CATCH BASIN TYPE BI-C	8	EA
604.097	72 INCH CATCH BASIN TYPE BI-C	2	EA
604.249	CATCH BASIN TYPE F6-C	1	EA
605.11	12 INCH UNDERDRAIN TYPE C	175	LF
605.12	15 INCH UNDERDRAIN TYPE C	309	LF
605.13	18 INCH UNDERDRAIN TYPE C	311	LF
607.25	REMOVE AND RESET CHAIN LINK FENCE	50	LF
609.11	VERTICAL CURB TYPE I	1328	LF
609.12	VERTICAL CURB TYPE I - CIRCULAR	284	LF
609.234	TERMINAL CURB TYPE I - 4 FOOT	6	EA
609.2341	TERMINAL CURB TYPE I - 4 FOOT - CIRCULAR	2	EA
609.238	TERMINAL CURB TYPE I - 8 FOOT	32	EA
609.2381	TERMINAL CURB TYPE I - 8 FT - CIRCULAR	3	EA
609.34	CURB TYPE 5	102	LF
609.35	CURB TYPE 5 - CIRCULAR	11	LF
610.08	PLAIN RIPRAP	50	CY
613.319	EROSION CONTROL BLANKET	50	SY
615.07	LOAM	105	CY
618.13	SEEDING METHOD NUMBER 1	9	UN
619.1201	MULCH	9	UN
620.58	EROSION CONTROL GEOTEXTILE	100	SY
626.11	PRECAST CONCRETE JUNCTION BOX	5	EA
626.21	METALLIC CONDUIT	50	LF
626.22	NON-METALLIC CONDUIT	150	LF
626.31	18 INCH FOUNDATION	3	EA
626.32	24 INCH FOUNDATION	1	EA
626.33	30 INCH FOUNDATION	3	EA
626.35	CONTROLLER CABINET FOUNDATION	1	EA
627.76	TEMPORARY PVMT. MARK LINE, W OR YELLOW	1	LS
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	10	HR
631.20	STUMP CHIPPER (INCLUDING OPERATOR)	10	HR
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.71	TRAFFIC SIGNAL MODIFICATION: RTE 2 AND BILLINGS RD	1	LS
643.83	VIDEO DETECTION SYSTEM	1	LS
643.92	PEDESTAL POLE	4	EA
643.93	STRAIN POLE	3	EA
652.33	DRUM	30	EA
652.34	CONE	75	EA
652.35	CONSTRUCTION SIGNS	450	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	120	CD
652.38	FLAGGER	5210	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	3,900	
TOTAL COMMON EXCAVATION		3,900

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	300	
TOTAL FILL		300

ROCK EXCAVATION FOR ESTIMATE

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

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		3,900
DEDUCTIONS:		
PAVEMENT SALVAGE (CUT & FILL)	228	
(2) TOTAL DEDUCTIONS		228
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		3,672
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		283
TOTAL AVAILABLE NON-ROCK EXCAVATION		3,955

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

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

COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW =	0	x 1.00=	0

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL				300
TOTAL AVAIL. NON-ROCK EXCAV.	3,955	x 0.90 =	3,559	
TOTAL AVAIL. ROCK EXCAV.	0	x 1.30 =	0	
TOTAL AVAIL. STR. ROCK EXCAV.	0	x 1.30 =	0	
TOTAL WASTE MATERIAL TO BE UTILIZED	0	x 0.90 =	0	
(4)TOTAL AVAILABLE EXCAVATION			=	3,559
BORROW NEEDED =				0

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED 3,259

SURPLUS MATERIAL = 3259 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	J. FRENCH	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

ESTIMATED QUANTITIES

SHEET NUMBER

4

OF 29

Filename: ...\HIGHWAY\MSTA\004_Estimate.dgn Division: HIGHWAY Username: Jonathan.French Date:3/2/2015

STATION	CULVERT PIPE											CATCH BASIN			MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III								TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED						TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C	F6-C		LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
CATCH BASIN																							
STA. 15+13.75, 32.2' LT. (RTE. 2) - (CB #1)														1									CONNECT EXIST. 18" CPP
STA. 15+16.65, 20.5' LT. (RTE. 2) - (CB #2)													1										
STA. 16+85.29, 22.6' LT. (RTE. 2) - (CB #3)													1										
STA. 17+96.24, 3.0' LT. (RTE. 2) - (CB #13)															1								USE SOLID COVER; CONNECT EXIST. 24" RCP
* STA. 18+07.49, 20.7' LT. (RTE. 2) - (CB #4)													1										
STA. 18+44.88, 26.7' LT. (RTE. 2) - (CB #5)												1											
STA. 18+74.64, 25.5' RT. (RTE. 2) - (CB #6)													1										
STA. 20+11.24, 21.4' LT. (RTE. 2) - (CB #7)													1										
STA. 21+81.30, 14.5' LT. (RTE. 2) - (CB #8)													1										72"
STA. 21+89.32, 14.3' RT. (RTE. 2) - (CB #9)													1										72"
STA. 132+62.28, 13.5' RT. (BILLINGS RD.) - (CB #10)													1⅛										CONNECT EXIST. 18" CPP
STA. 132+92.44, 14.8' LT. (BILLINGS RD.) - (CB #11)												1⅛											CONNECT EXIST. 18" CPP
* STA. 133+88.18, 14.2' RT. (BILLINGS RD.) - (CB #14)															1								USE SOLID COVER; CONNECT EXIST. 18" CMP
* STA. 134+20.01, 31.4' LT. (BILLINGS RD.) - (CB #12)													1										
ROADWAY CULVERT																							
STA. 13+61.26, 39.0' RT. TO STA. 13+63.25, 33.0' LT.								24"	72'	24"	72'												
STA. 14+43.24, 56.3' RT. TO CB#2 LT.								24"	105'	24"	105'												
CB#1 LT. TO CB#2 LT.								18"	13'	18"	13'												
CB #13 LT. TO CB#4 LT.								18"	21'	18"	21'												
CB#7 LT. TO CB#8 LT.								18"	167'	18"	167'												
CB#8 LT. TO STA. 21+89.98, 22.6' LT.				30"	12'																		CONNECT EXIST. 30" CMP
CB#8 LT. TO CB#9 RT.								48"	24'	48"	24'												
CB#9 RT. TO STA. 21+89.19, 34.9' RT.								48"	16'	48"	16'												
STA 31+65 RT.	18"	24'	III																				
STA. 50+25 LT.						24"	50'																EXTEND
CB#10 RT. (BILLINGS RD.) TO CB#11 LT. (BILLINGS RD.)								18"	42'	18"	42'												
CB #14 RT. TO CB#12 LT. (BILLINGS RD.)								18"	55'	18"	55'												
CB#12 LT. (BILLINGS RD.) TO MH#1 LT. (RTE. 2)								18"	31'	18"	31'												
UNDERDRAIN																							
CB#2 TO CB#3 LT.																		12"	172'	12"	172'		
CB#5 TO CB#7 LT.																		18"	168'	18"	168'		
CB#6 TO CB#9 RT.																		15"	309'	15"	309'		
CB#11 RT. (BILLINGS RD.) TO CB#5 LT. (RTE. 2)																		18"	143'	18"	143'		

* ACTUAL LOCATION & ELEVATION WILL BE DETERMINED IN THE FIELD.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

DRAINAGE SHEET

SHEET NUMBER

5

OF 29

Filename: ...\HIGHWAY\MSTA\005_Drainage.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

GENERAL NOTES

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

CENTRAL MAINE POWER
NORTHERN NEW ENGLAND TELEPHONE OPERATIONS LLC (FAIRPOINT)
TIME WARNER CABLE
OTT COMMUNICATIONS

2. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.203 PAVEMENT BUTT JOINT.

3. WHERE DEEMED NECESSARY BY THE RESIDENT, UNSUITABLE EXCESS MATERIAL SHALL BE REMOVED FROM THE EDGES OF SHOULDERS AND PLACED IN DESIGNATED AREAS OR DISPOSED OF. PAYMENT WILL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.

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

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

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

7. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.

8. ALL EXISTING PAVED SHOULDERS AND WIDENINGS TO BE RESURFACED AS DIRECTED BY THE RESIDENT.

9. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
   A. ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
   B. ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT OR CONCRETE
   C. FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND FOR TEMPORARY DETOURS TO MAINTAIN TRAFFIC DURING PIPE INSTALLATION (EXCAVATION IS ALSO INCIDENTAL).
   D. ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
   E. AN 18" WIDE STRIP OF NON-WOVEN GEO-TEXTILE MEETING THE REQUIREMENTS OF 620.58 SHALL BE PLACED OVER ALL RCP JOINTS

10. EXISTING CULVERTS AND CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

11. GRANULAR BORROW, IF USED UNDER PIPES, SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL

12. EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.

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

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

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

16. 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.

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

18. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL AREAS.

19. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES.

20. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS.

21. 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.

22. GEOTECHNICAL INFORMATION FOR THIS PROJECT IS AVAILABLE CONTACTING THE PROJECT MANAGER, RHOBE MOULTON AT 207-624-3391.

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

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

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

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

27. STATIONS REFERENCED ARE APPROXIMATE.

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

29. MAINEDOT WILL FINAL STRIPE THE PROJECT.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	J. FRENCH	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

GENERAL NOTES

Filename: ...\MSTA\006_GeneralNotes.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

SUPERELEVATION TABLE

RTE. 2

SH LT %	TL LT %	TW LT %	STA.	TW RT %	TL RT %	SH RT %
-4.0		-2.0	11+00	-3.0		-4.0
-4.0		-2.0	11+25	-3.0		-4.0
-4.0		-2.0	11+50	-3.0		-4.0
-4.0		-2.0	11+75	-3.0		-4.0
-4.0		-2.0	12+00	-3.0		-4.0
-4.0		-1.9	12+25	-2.5		-4.0
-4.0		-1.7	12+50	-2.0		-4.0
-4.0		-1.2	12+75	-2.0		-4.0
-4.0		-0.7	13+00	-2.0		-4.0
-4.0		0.5	13+75	-2.0		-4.0
-4.0		1.7	13+50	-2.0		-4.0
-4.0		2.2	13+75	-2.5		-4.0
-4.0		2.7	14+00	-3.0		-4.0
-4.0		3.1	14+25	-3.3		-4.0
-4.0		3.5	14+50	-3.5		-4.0
-4.0		3.5	14+75	-3.5		-4.0
-4.0		3.5	15+00	-3.5		-4.0
-4.0		3.5	15+25	-3.5		-4.0
-4.0		3.5	15+50	-3.5	-3.5	-4.0
-4.0		3.8	15+75	-3.8	-3.8	-4.0
-4.0		4.0	16+00	-4.0	-4.0	-4.0
-4.0		4.0	16+25	-4.0	-4.0	-4.0
MATCH*		4.0	16+50	-4.0	-4.0	-4.0
			TO			
MATCH*		4.0	18+25	-4.0	-4.0	-4.0
-4.0	4.0	4.0	18+50	-5.0		-5.0
-4.0	4.0	4.0	18+75	-5.3		-5.3
-4.0	4.0	4.0	19+00	-5.5		-5.5
-4.0	4.0	4.0	19+25	-5.5		-5.5
-4.0	4.0	4.0	19+50	-5.5		-5.5
-4.0	4.0	4.0	19+75	-5.5		-5.5
-4.0		4.0	20+00	-5.5		-5.5
-4.0		3.7	20+25	-5.0		-5.0
-4.0		3.4	20+50	-4.5		-4.5
-4.0		2.7	20+75	-3.8		-4.0
-4.0		2.0	21+00	-3.0		-4.0
-4.0		1.0	21+25	-3.0		-4.0
-4.0		0.0	21+50	-3.0		-4.0
-4.0		-1.0	21+75	-3.0		-4.0
-4.0		-2.0	22+00	-3.0		-4.0
-4.0		-2.0	22+25	-2.8		-4.0
-4.0		-2.0	22+50	-2.5		-4.0

* GRADE SHOULDER TO MATCH PROFILE OF BILLINGS RD.

SUPERELEVATION TABLE

BILLINGS RD.

SH LT %	TW LT %	STA.	TW RT %	SH RT %
-1.6	-1.4	132+00	-1.5	-4.0
-2.4	-1.7	132+25	-0.9	-4.0
-3.2	-2.0	132+50	-0.3	-4.0
-4.0	-2.0	132+75	0.4	-4.0
-4.0	-2.1	133+00	1.0	-4.0
-4.0	-2.7	133+25	1.4	-4.0
-4.0	-3.0	133+50	1.4	-4.0
-4.0	-3.3	133+75	1.4	-4.0
-4.0	-3.6	134+00	2.4	-4.0
MATCH	MATCH	134+25	2.4	-4.0
MATCH	MATCH	134+50	2.8	-4.0
MATCH	MATCH	134+66	MATCH	MATCH

UNDERDRAIN - RTE. 2

STATION	OFFSET	INLET ELEVATION	OUTLET ELEVATION	ELEVATION
18" TYPE C UNDERDRAIN				
18+44.88	LT.	182.75		
18+50.00	LT.			182.98
18+75.00	LT.			182.36
19+00.00	LT.			181.73
19+25.00	LT.			181.11
19+50.00	LT.			180.48
19+75.00	LT.			179.86
20+00.00	LT.			179.23
20+11.24	LT.		178.95	
18" OPTION III CULVERT PIPE				
20+11.24	LT.	178.70		
20+25.00	LT.			178.42
20+50.00	LT.			177.92
20+75.00	LT.			177.42
21+00.00	LT.			176.92
21+25.00	LT.			176.42
21+50.00	LT.			175.92
21+75.00	LT.			175.42
21+81.30	LT.		175.30	
15" TYPE C UNDERDRAIN				
18+74.64	RT.	180.00		
18+75.00	RT.			179.98
19+00.00	RT.			179.35
19+25.00	RT.			178.73
19+50.00	RT.			178.10
19+75.00	RT.			177.48
20+00.00	RT.			176.85
20+25.00	RT.			176.23
20+50.00	RT.			175.60
20+75.00	RT.			174.98
21+00.00	RT.			174.35
21+25.00	RT.			174.10
21+50.00	RT.			173.85
21+75.00	RT.			173.60
21+89.32	RT.		173.46	
12" TYPE C UNDERDRAIN				
15+16.65	LT.		183.49	
15+25.00	LT.			183.63
15+50.00	LT.			184.00
15+75.00	LT.			184.38
16+00.00	LT.			184.75
16+25.00	LT.			185.13
16+50.00	LT.			185.50
16+75.00	LT.			185.88
16+85.29	LT.	186.03		

UNDERDRAIN ELEVATIONS FOR REFERENCE ONLY,

ACTUAL ELEVATIONS TO BE DETERMINED IN THE FIELD.

ROADWAY CULVERT - RTE. 2

LOCATION	INLET ELEVATION	OUTLET ELEVATION
24" X 72' OPTION III		
STA. 13+61.26, 39.0' RT.		175.18
TO STA. 13+63.25, 33.0' LT.	175.90	
24" X 105' OPTION III		
STA. 14+43.24, 56.3' RT.		180.00
TO CB#2 LT.	182.61	
18" X 13' OPTION III		
CB#1 LT.	184.14	
TO CB#2 LT.		182.86
30" X 12' CMP		
CB#8 LT.	174.43	
TO STA. 21+89.98, 22.6' LT.		174.68
48" X 30' OPTION III		
CB#8 LT.	172.98	
TO CB#9 RT.		172.75
48"X 21' OPTION III		
CB#9 RT.	172.45	
TO STA. 21+89.19, 34.9' RT.		172.34

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

CONSTRUCTION NOTES

SHEET NUMBER

7

OF 29

Filename: ...\007_Construction Notes 01.dgn Division: HIGHWAY Username: Jonathon.French Date:1/30/2015

PAVED DRIVES AND ENTRANCES

STA.	11+25	LT.
STA.	14+45	LT.
STA.	16+00	RT.
STA.	16+42	LT.
STA.	17+60	RT.
STA.	19+00	RT.
STA.	19+85	RT.
STA.	19+93	LT.
STA.	20+50	LT.
STA.	21+30	RT.
STA.	22+18	LT.
STA.	133+94	RT.
STA.	135+85	RT.

ITEM 201.23 REMOVING SINGLE TREE - TOP ONLY

ITEM 201.24 REMOVING STUMP

STA. 13+74.9	37.7' LT.	48" LOCUST
STA. 15+40.2	27.8' LT.	16" TWIN MAPLE

ITEM 202.15 REMOVING MANHOLE OR CATCH BASIN

STA. 17+96.0	LT.
STA. 21+89.8	LT.
STA. 132+68.1	RT.
STA. 132+94.6	LT.
STA. 134+10.0	RT.

ITEM 607.25 REMOVE AND RESET CHAIN LINK FENCE

STA. 133+12 TO STA. 133+60 LT.

ITEM 609.11 VERT CURB TYPE 1

FROM GEOMETRIC SHEETS	LENGTH
	1,608.00 LF
DEDUCT ITEM 609.234	24.00 LF
DEDUCT ITEM 609.238	256.00 LF
TOTAL :	1328.00 LF

ITEM 609.12 VERT CURB TYPE 1 - CIRCULAR

FROM GEOMETRIC SHEETS	LENGTH
	316.00 LF
DEDUCT ITEM 609.2341	8.00 LF
DEDUCT ITEM 609.2381	24.00 LF
TOTAL :	284.00 LF

ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FT

FROM GEOMETRIC SHEETS	LENGTH
TOTAL :	24.00 LF

ITEM 609.2341 TERMINAL CURB TYPE 1 - 4 FT - CIRCULAR

FROM GEOMETRIC SHEETS	LENGTH
TOTAL :	8.00 LF

ITEM 609.238 TERMINAL CURB TYPE 1 - 8 FT

FROM GEOMETRIC SHEETS	LENGTH
TOTAL :	256.00 LF

ITEM 609.2381 TERMINAL CURB TYPE 1 - 8 FT - CIRCULAR

FROM GEOMETRIC SHEETS	LENGTH
TOTAL :	24.00 LF

ITEM 609.34 CURB TYPE 5

FROM GEOMETRIC SHEETS	LENGTH
TOTAL :	102.00 LF

ITEM 609.35 CURB TYPE 5 - CIRCULAR

FROM GEOMETRIC SHEETS	LENGTH
TOTAL :	11.00 LF

ITEM 610.08 PLAIN RIPRAP

CROSS CULVERTS	RIPRAP PAD INLET	RIPRAP PAD OUTLET
STA. 13+63.25, 33.0' LT	8' X 9'	
TO STA. 13+61.26, 39.0' RT.		8' X 9'
STA. 14+43.24, 56.3' RT.		8' X 9'
STA. 21+89.19, 34.9' RT.		16' X 22'

ITEM 613.319 EROSION CONTROL BLANKET

STA. 12+50 — STA. 13+60 LT.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------		------
REVISIONS 2	------		------
REVISIONS 3	------		------
REVISIONS 4	------		------
FIELD CHANGES	------		------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

CONSTRUCTION NOTES

SHEET NUMBER

8

OF 29

Filename: ...\008_Construction Notes 02.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

Filename: ...\MSTA\009_BORING LOGS1.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Intersection Route 2 and Billings Road
Location: Hermon, Maine

Boring No.: HB-HER-101
WIN: 17887.00

Driller:	MaineDOT	Elevation (ft.)	182.1
Operator:	Giguere/Giles	Datum:	NAVD88
Logged By:	B. Wilder	Rig Type:	CME 45C
Date Start/Finish:	2/23/12-2/23/12	Drilling Method:	Solid Stem
Boring Location:	13+50. 7.5 ft Rt.	Casing ID/OD:	N/A
Auger ID/OD:	5" Dia.	Sampler:	Off Flights
Hammer Wt./Fall:	N/A	Core Barrel:	N/A
Water Level*:	None Observed		

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0	PC-1		0.00 - 0.46			SSA	181.64	5.5" PAVEMENT, core taken.	
	S1		0.83 - 3.00				181.52	2" Gravel and Cobbles. (0.46)	
							181.27	3" CONCRETE. (0.58)	
								Brown, moist, fine to coarse SAND, some gravel, little silt. (0.83)	
	S2		3.00 - 5.00				179.10	Brown, wet, fine to coarse SAND, some gravel, some silt. (3.00)	
5							177.10	Bottom of Exploration at 5.00 feet below ground surface. NO REFUSAL (5.00)	
10									
15									
20									
25									

Remarks:
Route 2

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-HER-101

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Intersection Route 2 and Billings Road
Location: Hermon, Maine

Boring No.: HB-HER-102
WIN: 17887.00

Driller:	MaineDOT	Elevation (ft.)	180.3
Operator:	Giguere/Giles	Datum:	NAVD88
Logged By:	B. Wilder	Rig Type:	CME 45C
Date Start/Finish:	2/23/12-2/23/12	Drilling Method:	Solid Stem
Boring Location:	21+50. 6.0 ft Lt.	Casing ID/OD:	N/A
Auger ID/OD:	5" Dia.	Sampler:	Off Flights
Hammer Wt./Fall:	N/A	Core Barrel:	N/A
Water Level*:	None Observed		

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0	PC-2		0.00 - 0.50			SSA	179.80	6" PAVEMENT, core taken.	
							179.26	6.5" CONCRETE. (0.50)	
	S3		1.04 - 3.50					Brown, gravelly, fine to coarse SAND, little silt. (1.04)	
							176.80	Brown, wet, fine to coarse SAND, some gravel, some silt. ?52 (3.50)	
5									
	S4		6.00 - 10.00				174.30	Grey, wet, clayey-SILT, trace fine sand. (6.00)	
10							170.30	Bottom of Exploration at 10.00 feet below ground surface. NO REFUSAL (10.00)	
15									
20									
25									

Remarks:
Route 2

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-HER-102

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Intersection Route 2 and Billings Road
Location: Hermon, Maine

Boring No.: HB-HER-103
WIN: 17887.00

Driller:	MaineDOT	Elevation (ft.)	195.3
Operator:	Giguere/Giles	Datum:	NAVD88
Logged By:	B. Wilder	Rig Type:	CME 45C
Date Start/Finish:	2/23/12-2/23/12	Drilling Method:	Solid Stem
Boring Location:	133+00. 6.5 ft Lt.	Casing ID/OD:	N/A
Auger ID/OD:	5" Dia.	Sampler:	Off Flights
Hammer Wt./Fall:	N/A	Core Barrel:	N/A
Water Level*:	None Observed		

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0	S5		0.33 - 2.00			SSA	194.97	4" PAVEMENT.	
								Brown, moist, fine to coarse SAND, little gravel. (0.33)	
							193.30	Grey-brown, wet, clayey-SILT, trace fine sand. (2.00)	
	S6		2.00 - 5.00						
5							190.30	Bottom of Exploration at 5.00 feet below ground surface. NO REFUSAL (5.00)	
10									
15									
20									
25									

Remarks:
Billings Road

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-HER-103

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

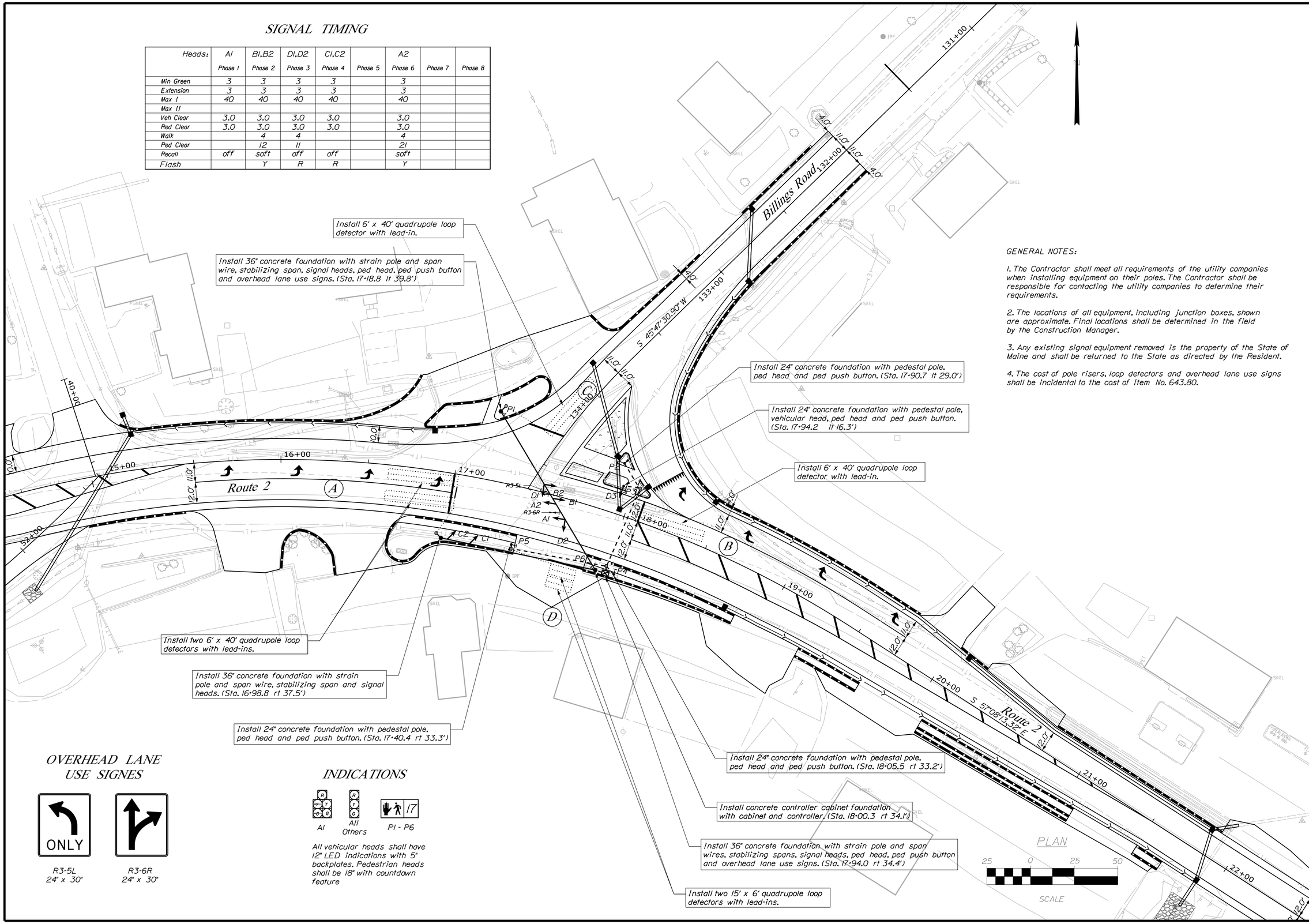
HERMON
RTE. 2 & BILLINGS RD.

BORING LOGS

SHEET NUMBER
9
OF 29

SIGNAL TIMING

Heads:	A1	B1,B2	D1,D2	C1,C2		A2		
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
Min Green	3	3	3	3		3		
Extension	3	3	3	3		3		
Max I	40	40	40	40		40		
Max II								
Veh Clear	3.0	3.0	3.0	3.0		3.0		
Red Clear	3.0	3.0	3.0	3.0		3.0		
Walk		4	4			4		
Ped Clear		12	11			21		
Recall	off	soft	off	off		soft		
Flash		Y	R	R		Y		



OVERHEAD LANE USE SIGNES

R3-5L
24" x 30"

R3-6R
24" x 30"

INDICATIONS

A1 — All Others — P1 - P6

All vehicular heads shall have 12" LED indications with 5" backplates. Pedestrian heads shall be 18" with countdown feature

GENERAL NOTES:

1. The Contractor shall meet all requirements of the utility companies when installing equipment on their poles. The Contractor shall be responsible for contacting the utility companies to determine their requirements.

2. The locations of all equipment, including junction boxes, shown are approximate. Final locations shall be determined in the field by the Construction Manager.

3. Any existing signal equipment removed is the property of the State of Maine and shall be returned to the State as directed by the Resident.

4. The cost of pole risers, loop detectors and overhead lane use signs shall be incidental to the cost of Item No. 643.80.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

TRAFFIC PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	M. DELOIS	M. DELOIS	SEP 2013
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

TRAFFIC SIGNAL PLAN

SHEET NUMBER

10

OF 29

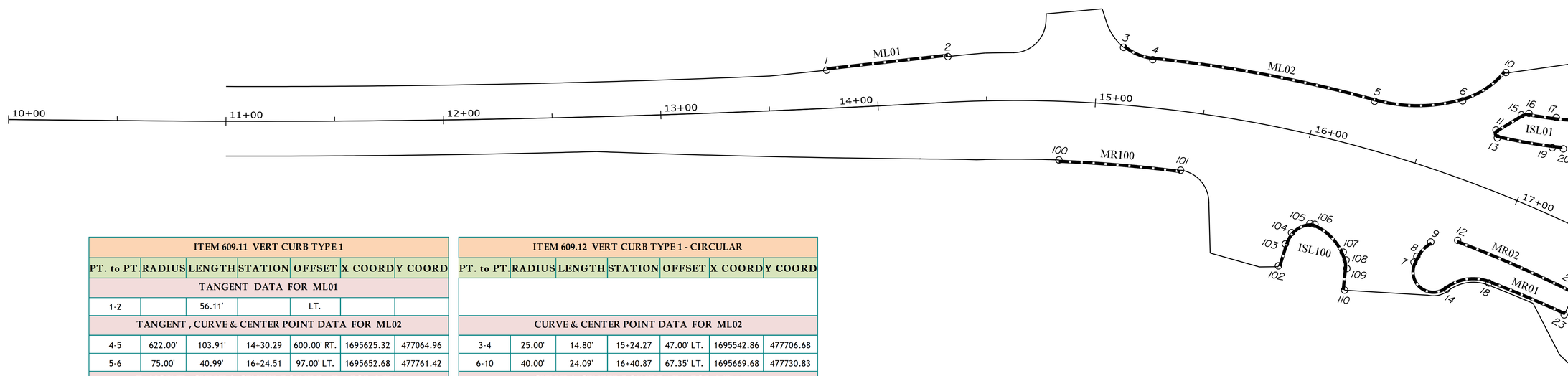
Filename: ...\MSTA\010_Plan_Traffic.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ML01				
1	13+77.13	17.54' LT.	1695401.10	477643.05
2	14+33.22	20.99' LT.	1695453.97	477661.84
CONTROL POINTS FOR ML02				
3	15+10.91	26.41' LT.	1695531.66	477684.33
4	15+24.27	22.00' LT.	1695546.04	477681.89
5	16+24.51	22.00' LT.	1695649.73	477686.48
6	16+61.42	34.13' LT.	1695689.11	477695.87
10	16+74.81	53.01' LT.	1695705.50	477713.03
CONTROL POINTS FOR MR01				
7	16+64.52	43.35' RT.	1695684.19	477618.49
8	16+64.94	40.32' RT.	1695684.89	477621.46
9	16+69.02	32.01' RT.	1695689.62	477629.30
14	16+84.47	49.78' RT.	1695701.66	477609.86
18	17+02.79	39.90' RT.	1695719.93	477617.02
23	17+42.99	38.67' RT.	1695756.97	477610.64
CONTROL POINTS FOR MR02				
12	16+80.94	27.00' RT.	1695701.48	477632.88
22	17+42.76	27.00' RT.	1695759.49	477622.04

POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR MR100				
100	14+84.19	27.00' RT.	1695514.52	477627.15
101	15+43.02	27.00' RT.	1695570.08	477635.29
CONTROL POINTS FOR ISL100				
102	15+99.33	62.29' RT.	1695623.87	477602.67
103	16+00.23	51.72' RT.	1695624.66	477613.24
104	16+01.97	46.03' RT.	1695626.26	477618.93
105	16+09.77	39.92' RT.	1695633.56	477624.98
106	16+12.22	39.75' RT.	1695635.84	477625.11
107	16+29.39	48.77' RT.	1695651.43	477615.58
108	16+31.58	51.46' RT.	1695653.31	477612.79
109	16+33.43	55.49' RT.	1695654.78	477608.68
110	16+35.45	65.40' RT.	1695656.04	477598.68

ITEM 609.2341 TERMINAL CURB TYPE 1 - 4 FT. - CIRCULAR		
END POINTS		
3	10	

ITEM 609.2381 TERMINAL CURB TYPE 1 - 8 FT. - CIRCULAR		
END POINTS		
9	40	41



ITEM 609.11 VERT CURB TYPE 1						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT DATA FOR ML01						
1-2		56.11'		LT.		
TANGENT , CURVE & CENTER POINT DATA FOR ML02						
4-5	622.00'	103.91'	14+30.29	600.00' RT.	1695625.32	477064.96
5-6	75.00'	40.99'	16+24.51	97.00' LT.	1695652.68	477761.42
TANGENT , CURVE & CENTER POINT DATA FOR MR01						
8-7		3.06'		RT.		
18-23	600.00'	37.59'	19+77.54	629.22' RT.	1695636.72	477022.81
CURVE & CENTER POINT DATA FOR MR02						
12-22	573.00'	59.04'	19+45.13	599.99' RT.	1695625.36	477064.96
CURVE & CENTER POINT DATA FOR MR100						
100-101	627.00'	56.17'	19+87.35	648.19' RT.	1695634.67	477001.56
TANGENT , CURVE & CENTER POINT DATA FOR ISL100						
102-103		10.60'				
109-110		9.98'				

ITEM 609.12 VERT CURB TYPE 1 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ML02						
3-4	25.00'	14.80'	15+24.27	47.00' LT.	1695542.86	477706.68
6-10	40.00'	24.09'	16+40.87	67.35' LT.	1695669.68	477730.83
CURVE & CENTER POINT DATA FOR MR01						
9-8	15.00'	9.30'	16+80.94	42.00' RT.	1695699.49	477618.01
7-14	10.00'	26.89'	16+75.24	44.52' RT.	1695693.92	477616.19
14-18	20.00'	20.50'	17+03.47	59.89' RT.	1695717.15	477597.21
CURVE & CENTER POINT DATA FOR ISL100						
103-104	15.00'	5.95'	16+16.13	52.66' RT.	1695639.62	477612.11
104-105	12.00'	9.75'	16+13.67	51.36' RT.	1695636.95	477613.47
105-106	5.00'	2.30'	16+11.38	44.69' RT.	1695634.97	477620.19
106-107	25.00'	18.71'	16+07.87	64.43' RT.	1695631.50	477600.49
107-108	30.00'	3.83'	16+03.42	67.48' RT.	1695627.51	477597.48
108-109	10.00'	3.95'	16+22.56	57.19' RT.	1695644.86	477607.42

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

GEOMETRIC PLANS

SHEET NUMBER

11

OF 29

Filename: ...\HIGHWAY\MSTA\011_Geometry1.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

ITEM 609.11 VERT CURB TYPE 1						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL01						
20-19	93.00'	5.07'	16+84.02	118.64' LT.	1695724.49	477776.72
19-13	250.00'	25.74'	16+57.99	271.84' LT.	1695708.08	477932.86
11-15		13.60'		LT.		
16-17	236.00'	12.68'	16+57.99	271.84' LT.	1695708.08	477932.86
17-20A	79.00'	12.44'	16+84.03	118.64' LT.	1695724.49	477776.72
TANGENT , CURVE & CENTER POINT DATA FOR ISL02						
81-79	79.00'	21.39'	16+84.02	118.64' LT.	1695724.49	477776.72
80-21	93.00'	26.97'	16+84.02	118.64' LT.	1695724.49	477776.72
TANGENT , CURVE & CENTER POINT DATA FOR ML04						
42-49	627.00'	92.76'	14+30.29	600.00' RT.	1695625.33	477064.96
49-54		18.22'		LT.		
TANGENT , CURVE & CENTER POINT DATA FOR SL01						
69-72		81.54'		LT.		
72-72A	205.00'	8.90'	19+91.63	98.85' LT.	1696043.63	477626.72
TANGENT , CURVE & CENTER POINT DATA FOR SL02						
72B -74	205.00'	65.56'	19+91.63	98.85' LT.	1696043.63	477626.72
TANGENT DATA FOR SR02						
73-75		59.60'		RT.		
76-77		8.45'		RT.		

ITEM 609.12 VERT CURB TYPE 1 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR ISL01						
13-11	2.00'	4.75'	16+81.00	25.46' LT.	1695708.52	477684.86
15-16	5.00'	3.60'	16+91.19	34.37' LT.	1695720.37	477692.18
CURVE & CENTER POINT DATA FOR ISL02						
79-78	6.00'	12.69'	17+36.71	58.84' LT.	1695773.13	477707.01
78-80	10.00'	10.68'	17+33.22	57.71' LT.	1695769.13	477706.75
CURVE & CENTER POINT DATA FOR ML03						
41-41A	56.00'	25.78'	18+56.37	82.99' LT.	1695907.37	477687.00
CURVE & CENTER POINT DATA FOR ML04						
41B-42	56.00'	9.67'	18+56.37	82.99' LT.	1695907.37	477687.00
CURVE & CENTER POINT DATA FOR SL02						
74-40	56.00'	92.76'	18+56.37	82.99' LT.	1695907.37	477687.00
CURVE & CENTER POINT DATA FOR SR02						
75-76	10.00'	15.25'	133+61.14	26.26' RT.	1695814.16	477748.45

ITEM 609.34 CURB TYPE 5						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL03						
25-24		5.46'		LT.		
26-33	614.00'	11.79'	19+45.10	600.00' RT.	1695625.33	477064.96
TANGENT , CURVE & CENTER POINT DATA FOR ISL04						
27-30		6.68'		LT.		
31-34	62.00'	9.22'	18+37.18	72.00' LT.	1695883.11	477685.55
TANGENT , CURVE & CENTER POINT DATA FOR ISL05						
35-38	614.00'	6.72'	14+30.29	600.00' RT.	1695625.33	477064.96
39-36	62.00'	62.00'	18+37.18	72.00' LT.	1695883.11	477685.55

ITEM 609.35 CURB TYPE 5 - CIRCULAR						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL03						
24-26	2.00'	3.81'	17+84.32	16.00' LT.	1695810.66	477652.42
TANGENT , CURVE & CENTER POINT DATA FOR ISL04						
30-31	2.00'	4.35'	17+90.30	33.28' LT.	1695821.87	477666.97
TANGENT , CURVE & CENTER POINT DATA FOR ISL05						
38-39	2.00'	2.00'	18+08.28	16.00' LT.	1695833.97	477644.55

POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL01				
20	17+10.00	30.32' LT.	1695739.25	477684.90
19	17+05.39	28.77' LT.	1695734.22	477684.23
13	16+81.26	23.48' LT.	1695708.52	477682.86
11	16+79.50	26.70' LT.	1695707.12	477686.30
15	16+87.44	37.41' LT.	1695716.88	477695.77
16	16+90.25	39.27' LT.	1695720.11	477697.17
17	17+01.79	42.24' LT.	1695732.75	477698.16
20A	17+12.61	46.63' LT.	1695744.97	477700.42
CONTROL POINTS FOR ISL02				
21	17+19.60	34.70' LT.	1695750.01	477687.29
80	134+21.86	21.57' RT.	1695774.51	477698.32
78	134+12.44	23.70' RT.	1695779.11	477707.40
79	134+14.76	33.85' RT.	1695769.69	477711.93
81	134+32.43	42.80' RT.	1695750.72	477702.20
CONTROL POINTS FOR ISL03				
24	17+82.48	16.66' LT.	1695809.06	477653.61
25	17+84.22	21.82' LT.	1695812.31	477658.00
26	17+84.32	14.00' LT.	1695810.06	477650.51
33	17+95.84	14.00' LT.	1695821.27	477646.86
CONTROL POINTS FOR ISL04				
27	17+86.28	27.73' LT.	1695816.14	477662.98
30	17+88.53	33.98' LT.	1695820.30	477668.21
31	17+91.85	34.42' LT.	1695823.78	477667.55
34	17+97.43	27.33' LT.	1695827.10	477658.96
CONTROL POINTS FOR MR03				
28	17+86.74	27.00' RT.	1695799.93	477610.72
32	17+95.43	26.99' RT.	1695807.81	477608.14
CONTROL POINTS FOR MR04				
29	17+86.79	37.14' RT.	1695796.88	477601.04
44	18+82.07	33.19' RT.	1695881.28	477570.69
CONTROL POINTS FOR MR05				
37	18+01.72	26.99' RT.	1695813.50	477606.20
43	18+81.96	26.95' RT.	1695884.00	477576.31
CONTROL POINTS FOR ISL05				
35	18+01.71	14.00' LT.	1695826.95	477644.91
36	18+01.71	23.21' LT.	1695829.97	477653.61
38	18+08.28	14.00' LT.	1695833.29	477642.67
39	18+09.26	17.73' LT.	1695835.50	477645.83

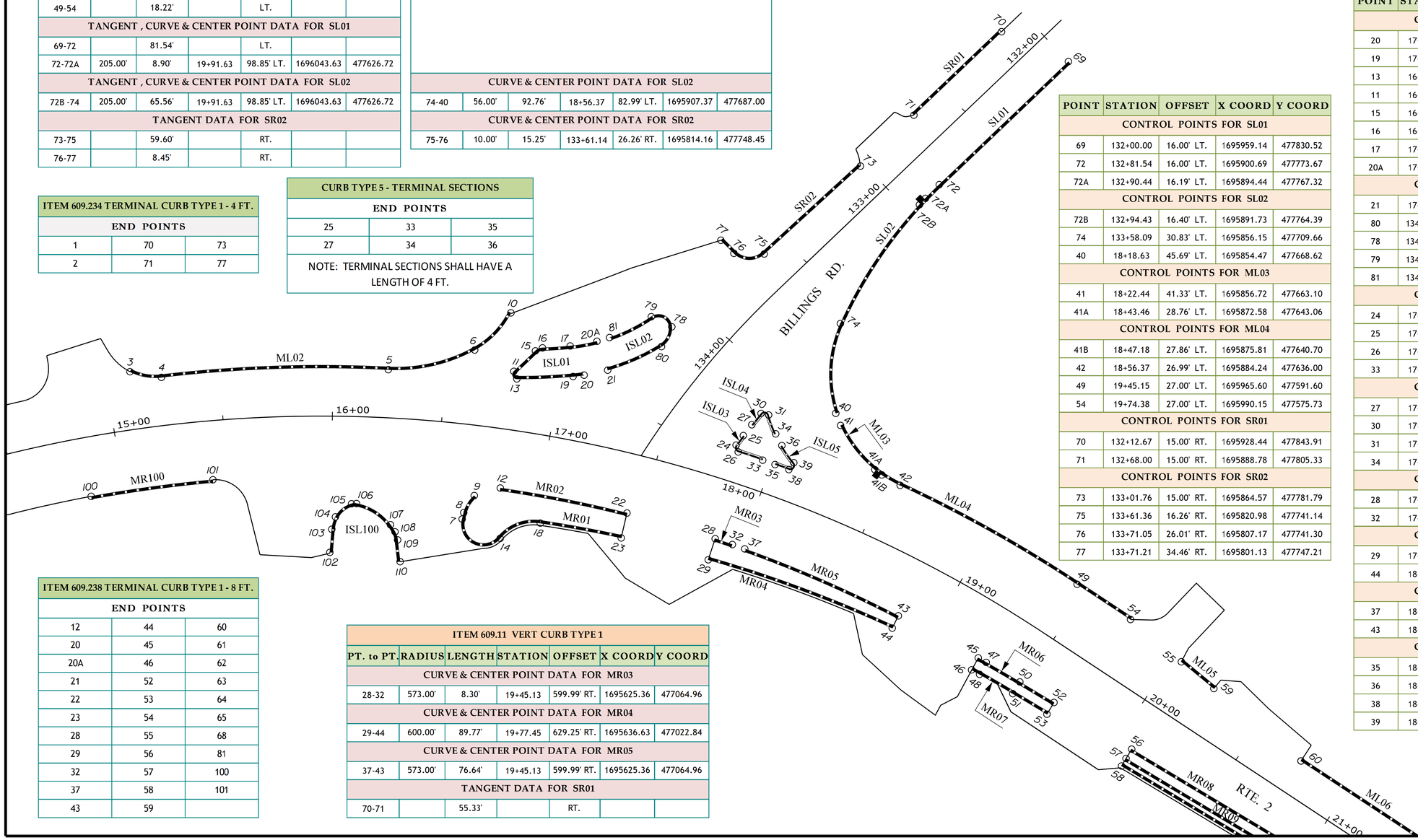
ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FT.		
END POINTS		
1	70	73
2	71	77

CURB TYPE 5 - TERMINAL SECTIONS		
END POINTS		
25	33	35
27	34	36
NOTE: TERMINAL SECTIONS SHALL HAVE A LENGTH OF 4 FT.		

ITEM 609.238 TERMINAL CURB TYPE 1 - 8 FT.		
END POINTS		
12	44	60
20	45	61
20A	46	62
21	52	63
22	53	64
23	54	65
28	55	68
29	56	81
32	57	100
37	58	101
43	59	

ITEM 609.11 VERT CURB TYPE 1						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
CURVE & CENTER POINT DATA FOR MR03						
28-32	573.00'	8.30'	19+45.13	599.99' RT.	1695625.36	477064.96
CURVE & CENTER POINT DATA FOR MR04						
29-44	600.00'	89.77'	19+77.45	629.25' RT.	1695636.63	477022.84
CURVE & CENTER POINT DATA FOR MR05						
37-43	573.00'	76.64'	19+45.13	599.99' RT.	1695625.36	477064.96
TANGENT DATA FOR SR01						
70-71		55.33'		RT.		

POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR SL01				
69	132+00.00	16.00' LT.	1695959.14	477830.52
72	132+81.54	16.00' LT.	1695900.69	477773.67
72A	132+90.44	16.19' LT.	1695894.44	477767.32
CONTROL POINTS FOR SL02				
72B	132+94.43	16.40' LT.	1695891.73	477764.39
74	133+58.09	30.83' LT.	1695856.15	477709.66
40	18+18.63	45.69' LT.	1695854.47	477668.62
CONTROL POINTS FOR ML03				
41	18+22.44	41.33' LT.	1695856.72	477663.10
41A	18+43.46	28.76' LT.	1695872.58	477643.06
CONTROL POINTS FOR ML04				
41B	18+47.18	27.86' LT.	1695875.81	477640.70
42	18+56.37	26.99' LT.	1695884.24	477636.00
49	19+45.15	27.00' LT.	1695965.60	477591.60
54	19+74.38	27.00' LT.	1695990.15	477575.73
CONTROL POINTS FOR SR01				
70	132+12.67	15.00' RT.	1695928.44	477843.91
71	132+68.00	15.00' RT.	1695888.78	477805.33
CONTROL POINTS FOR SR02				
73	133+01.76	15.00' RT.	1695864.57	477781.79
75	133+61.36	16.26' RT.	1695820.98	477741.14
76	133+71.05	26.01' RT.	1695807.17	477741.30
77	133+71.21	34.46' RT.	1695801.13	477747.21



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

GEOMETRIC PLANS

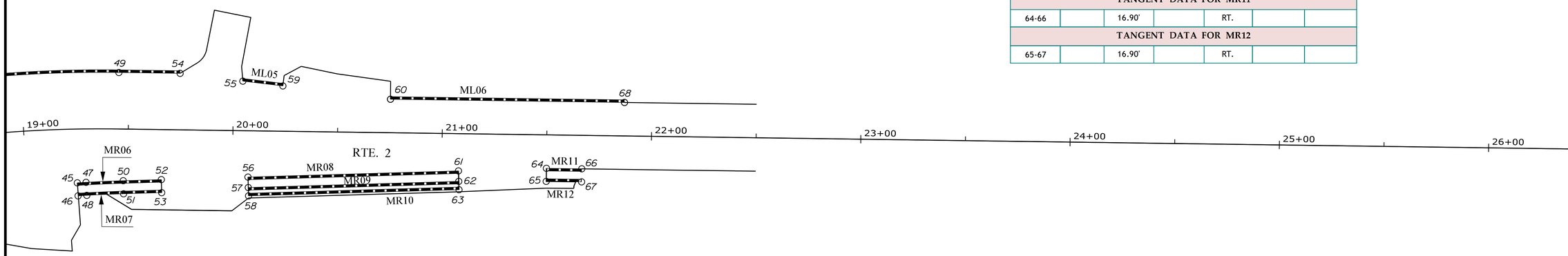
SHEET NUMBER
12
OF 29

Filename: ...\HIGHWAY\MSTA\012_Geometry2.dgn Division: HIGHWAY Username: Jonathon.French Date:1/30/2015

POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR MR06				
45	19+25.15	25.70' RT.	1695920.75	477557.45
47	19+29.51	25.53' RT.	1695924.41	477555.44
50	19+47.91	24.71' RT.	1695939.86	477546.66
52	19+66.11	23.94' RT.	1695955.56	477537.43
CONTROL POINTS FOR MR07				
46	19+25.41	31.95' RT.	1695917.75	477551.97
48	19+29.81	31.77' RT.	1695921.40	477549.96
51	19+48.17	30.95' RT.	1695936.69	477541.28
53	19+66.37	30.18' RT.	1695952.40	477532.05
CONTROL POINTS FOR ML05				
55	20+04.41	23.69' LT.	1696013.58	477556.65
59	20+23.56	21.66' LT.	1696028.56	477544.56
CONTROL POINTS FOR MR08				
56	20+07.50	22.15' RT.	1695991.30	477516.48
61	21+08.00	17.82' RT.	1696078.07	477465.58

POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR MR09				
57	20+07.71	27.15' RT.	1695988.77	477512.16
62	21+08.22	22.81' RT.	1696075.54	477461.27
CONTROL POINTS FOR MR10				
58	20+07.89	31.14' RT.	1695986.75	477508.71
63	21+08.39	26.81' RT.	1696073.52	477457.82
CONTROL POINTS FOR ML06				
60	20+75.07	16.00' LT.	1696068.76	477511.86
68	21+86.89	16.00' LT.	1696162.68	477451.18
CONTROL POINTS FOR MR11				
64	21+50.00	16.00' RT.	1696114.33	477444.32
66	21+66.90	16.00' RT.	1696128.53	477435.15
CONTROL POINTS FOR MR12				
65	21+50.00	22.25' RT.	1696110.94	477439.07
67	21+66.90	22.25' RT.	1696125.14	477429.90

ITEM 609.11 VERT CURB TYPE 1						
PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR MR06						
45-47		4.17'		RT.		
47-50	600.00'	17.77'	19+73.24	624.17' RT.	1695635.84	477029.39
50-52		18.22'		RT.		
TANGENT , CURVE & CENTER POINT DATA FOR MR07						
46-48		4.17'		RT.		
48-51	593.75'	17.58'	19+73.24	624.17' RT.	1695635.84	477029.39
51-53		18.22'		RT.		
TANGENT DATA FOR ML05						
55-59		19.25'		LT.		
TANGENT DATA FOR MR08						
56-61		100.59'		RT.		
TANGENT DATA FOR MR09						
57-62		100.59'		RT.		
TANGENT DATA FOR MR10						
58-63		100.59'		RT.		
TANGENT DATA FOR ML06						
60-68		111.82'		LT.		
TANGENT DATA FOR MR11						
64-66		16.90'		RT.		
TANGENT DATA FOR MR12						
65-67		16.90'		RT.		



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN
17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

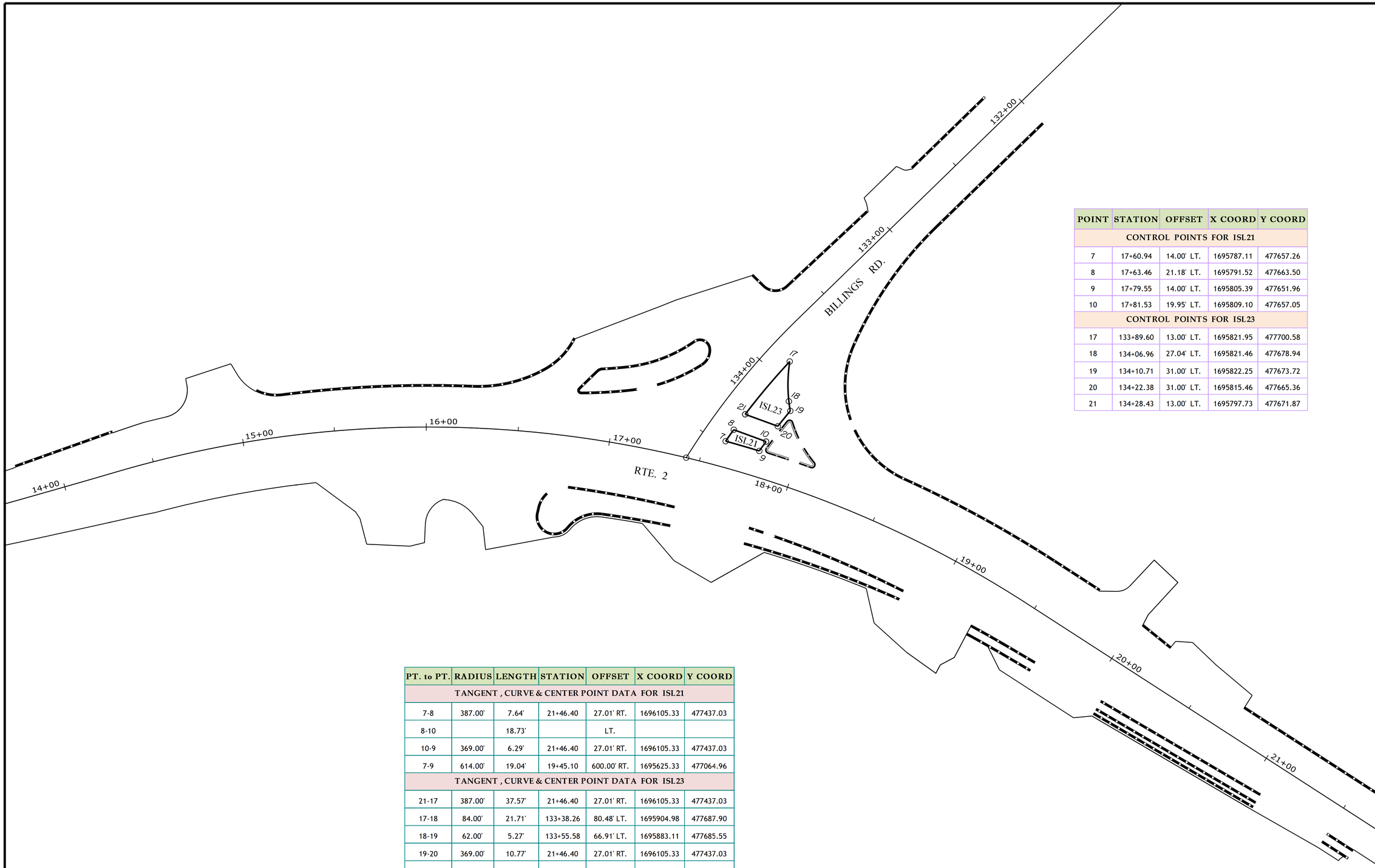
GEOMETRIC PLANS

SHEET NUMBER

13

OF 29

Filename: ...\HIGHWAY\MSTA\013_Geometry3.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



POINT	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL21				
7	17+60.94	14.00' LT.	1695787.11	477657.26
8	17+63.46	21.18' LT.	1695791.52	477663.50
9	17+79.55	14.00' LT.	1695805.39	477651.96
10	17+81.53	19.95' LT.	1695809.10	477657.05
CONTROL POINTS FOR ISL23				
17	133+89.60	13.00' LT.	1695821.95	477700.58
18	134+06.96	27.04' LT.	1695821.46	477678.94
19	134+10.71	31.00' LT.	1695822.25	477673.72
20	134+22.38	31.00' LT.	1695815.46	477665.36
21	134+28.43	13.00' LT.	1695797.73	477671.87

PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL21						
7-8	387.00'	7.64'	21+46.40	27.01' RT.	1696105.33	477437.03
8-10		18.73'		LT.		
10-9	369.00'	6.29'	21+46.40	27.01' RT.	1696105.33	477437.03
7-9	614.00'	19.04'	19+45.10	600.00' RT.	1695625.33	477064.96
TANGENT , CURVE & CENTER POINT DATA FOR ISL23						
21-17	387.00'	37.57'	21+46.40	27.01' RT.	1696105.33	477437.03
17-18	84.00'	21.71'	133+38.26	80.48' LT.	1695904.98	477687.90
18-19	62.00'	5.27'	133+55.58	66.91' LT.	1695883.11	477685.55
19-20	369.00'	10.77'	21+46.40	27.01' RT.	1696105.33	477437.03
20-21		18.89'		LT.		

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HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

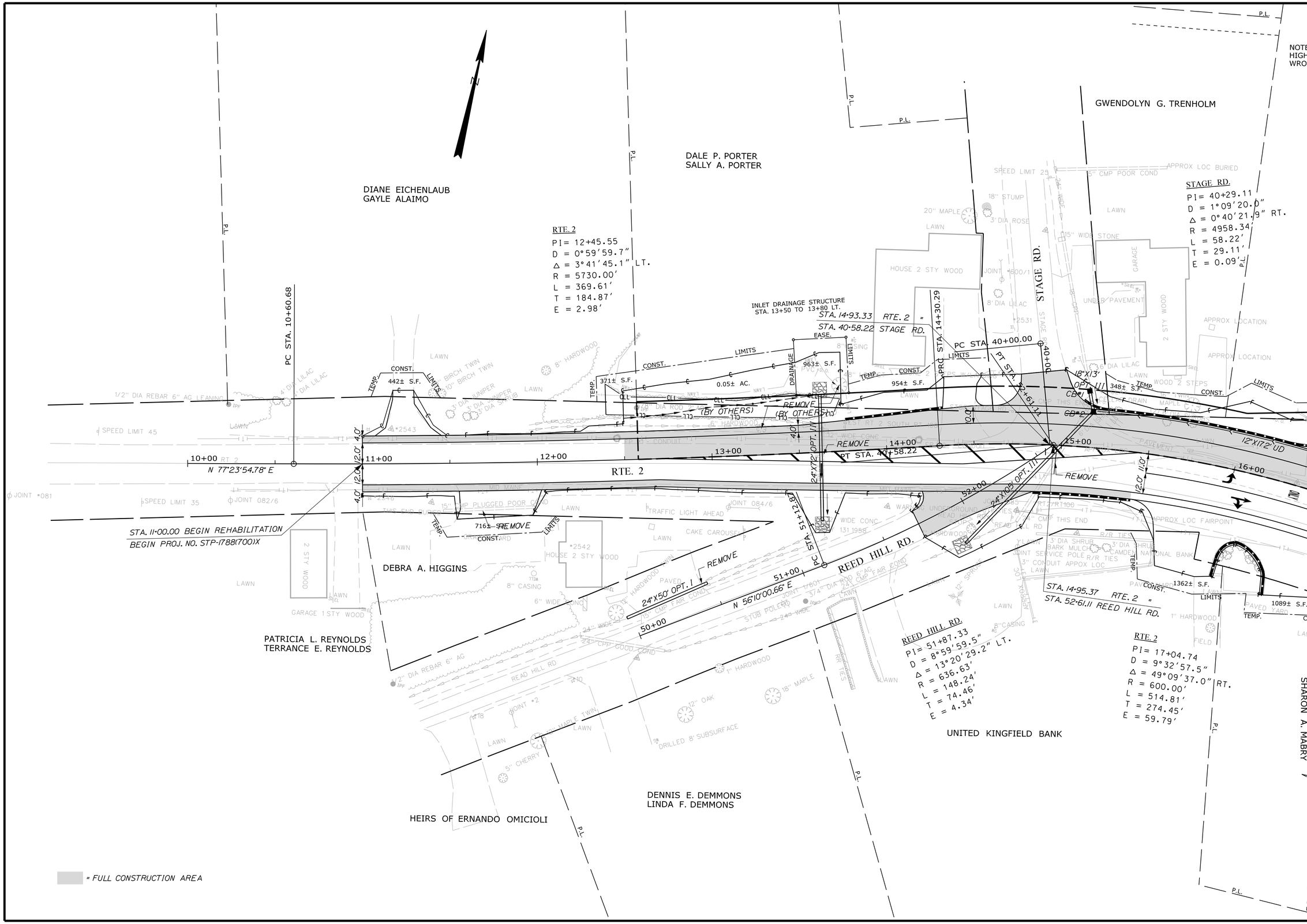
GEOMETRIC PLANS

SHEET NUMBER

14

OF 29

Filename: ...\014_Geometry_Flush Islands.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



NOTE:
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN
17887.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	J. FRENCH	SEP 2013
CHECKED-REVIEWED	BT TRAN	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

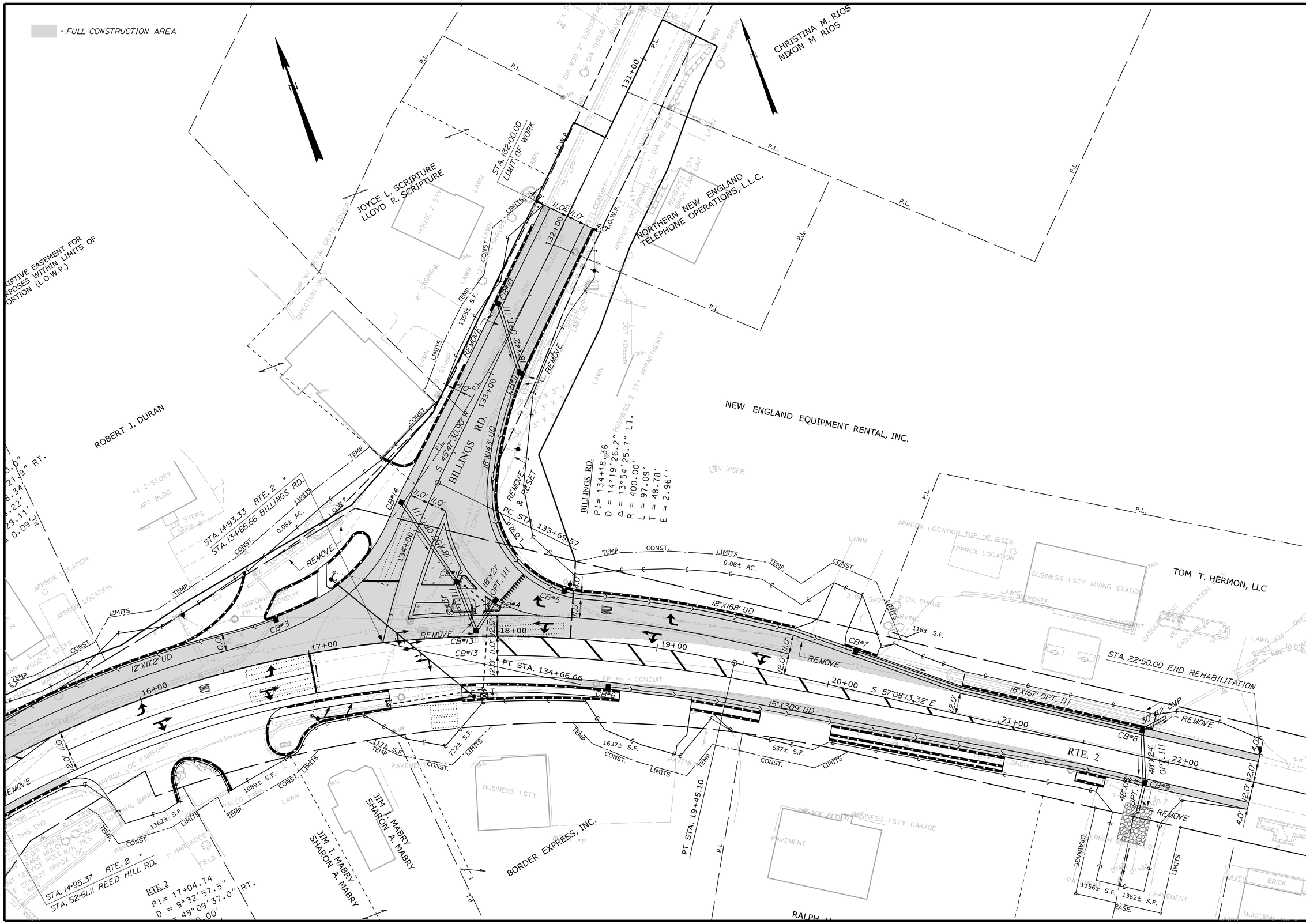
PLANS

SHEET NUMBER

15

OF 29

Filename: ...\HIGHWAY\MSTA\015_HDPlan1.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

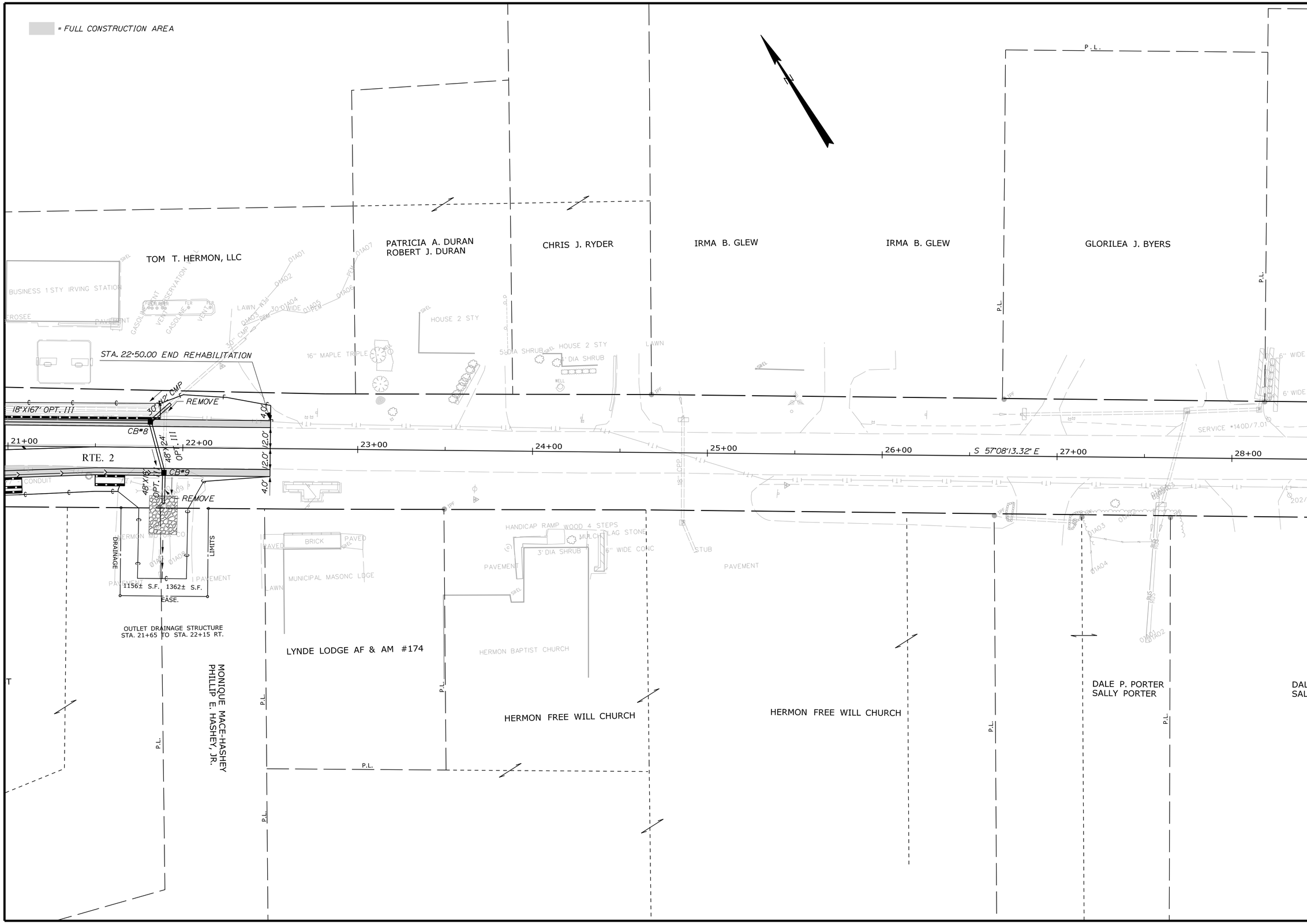
HERMON
RTE. 2 & BILLINGS RD.
PLANS

SHEET NUMBER

16

OF 29

Filename: ...\HIGHWAY\MSTA\016_HDPlan2.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN
17887.00

HIGHWAY PLANS

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

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

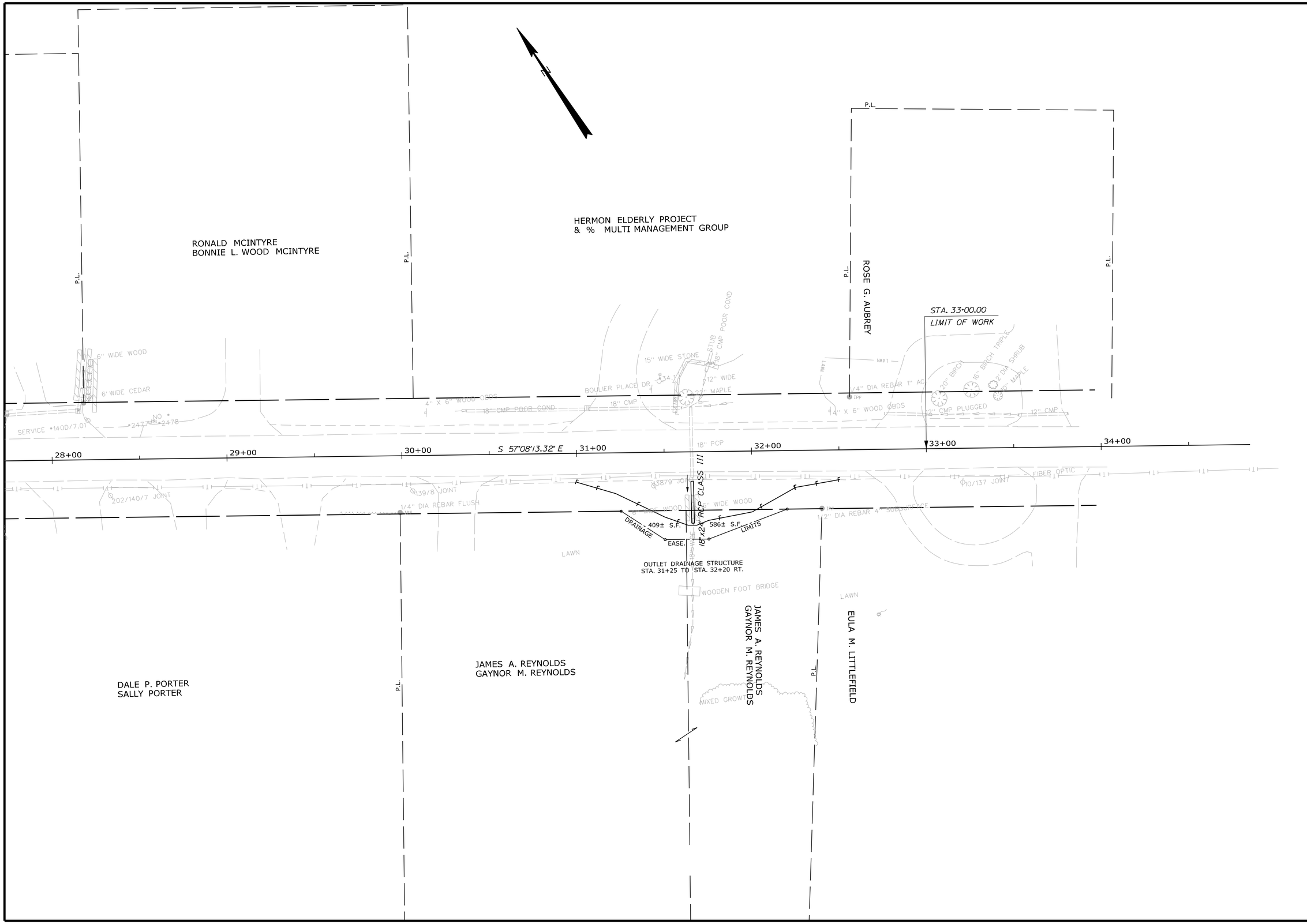
PLANS

SHEET NUMBER

17

OF 29

Filename: ...\HIGHWAY\MSTA\017_HDPlan3.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	-----	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

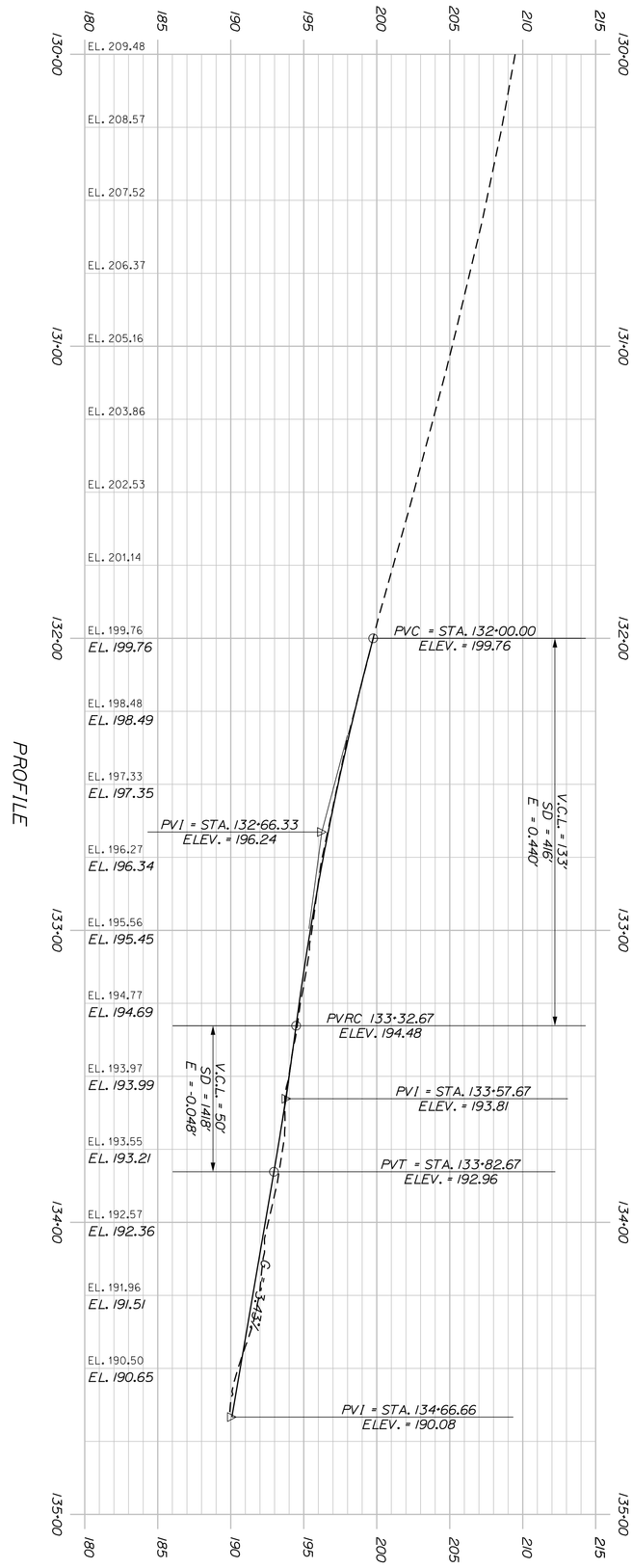
PLANS

SHEET NUMBER

18

OF 29

Filename: ...\HIGHWAY\MSTA\018_HDPlan4.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015



PROJ. MANAGER	P. MACDONALD	BY	DATE	
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013	
CHECKED-REVIEWED	_____	_____	_____	SIGNATURE
DESIGN2-DETAILED2	_____	_____	_____	
DESIGN3-DETAILED3	_____	_____	_____	P.E. NUMBER
REVISIONS 1	_____		_____	
REVISIONS 2	_____		_____	
REVISIONS 3	_____		_____	DATE
REVISIONS 4	_____		_____	
FIELD CHANGES	_____		_____	

HERMON
BILLINGS RD.

PROFILE

SHEET NUMBER 19 OF 29

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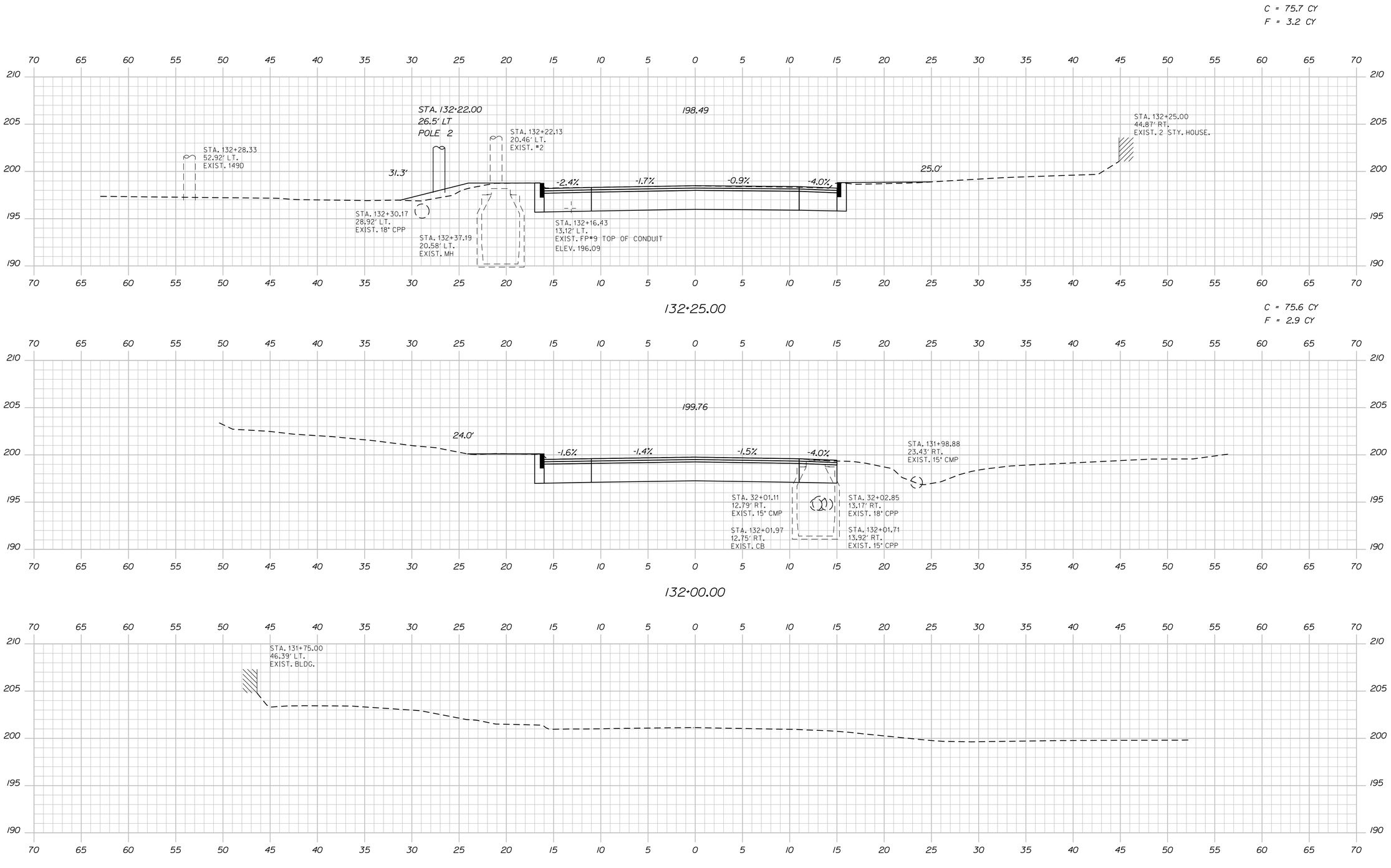
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1788(700)X

WIN 17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGNDETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKEDREVIEWED			
DESIGNDETAILED2			
DESIGNDETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

CROSS SECTIONS

SHEET NUMBER

20

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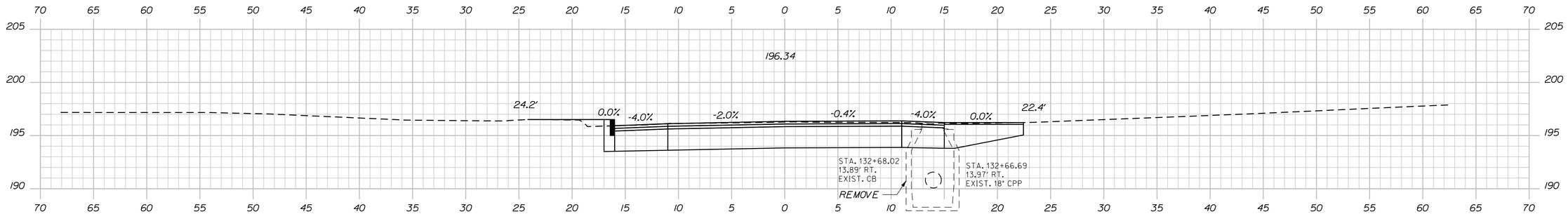
Sta. 131+75.00 to Sta. 132+25.00

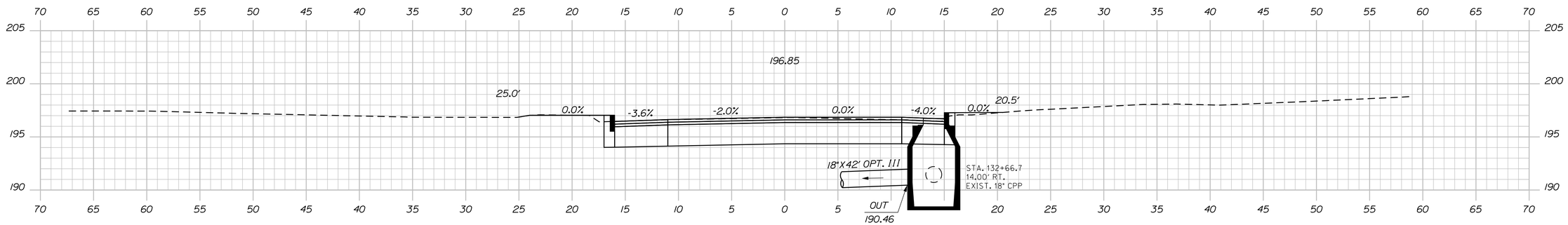
Filename: ...\020_Xsect_BillingsRdC_5 scale_131+75to132+25.dgn Username: Jonathan.French Date:1/30/2015



132+75.00

STA. 132+85.00 RT.
CONSTRUCT PAVED ENT.
34' CURB OPENING

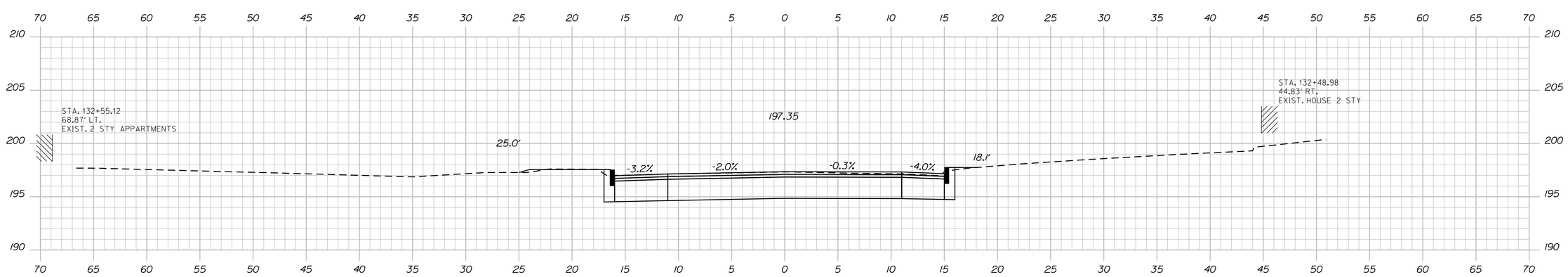
C = 74.1 CY
F = 0.9 CY



132+62.00

CB#10 RT. TO CB#11 LT.
INSTALL 18"X42' CULV. PIPE OPT. III

(CB#10) STA. 132+62.28, 13.5' RT.
CONSTRUCT CB TYPE BI-C
GRATE ELV. = 196.70
CONNECT EXIST. 18" CPP



132+50.00

STATE OF MAINE
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STP-1788(700)X

WIN
17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGNDETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKEDREVIEWED			
DESIGN2DETAILED2			
DESIGN3DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

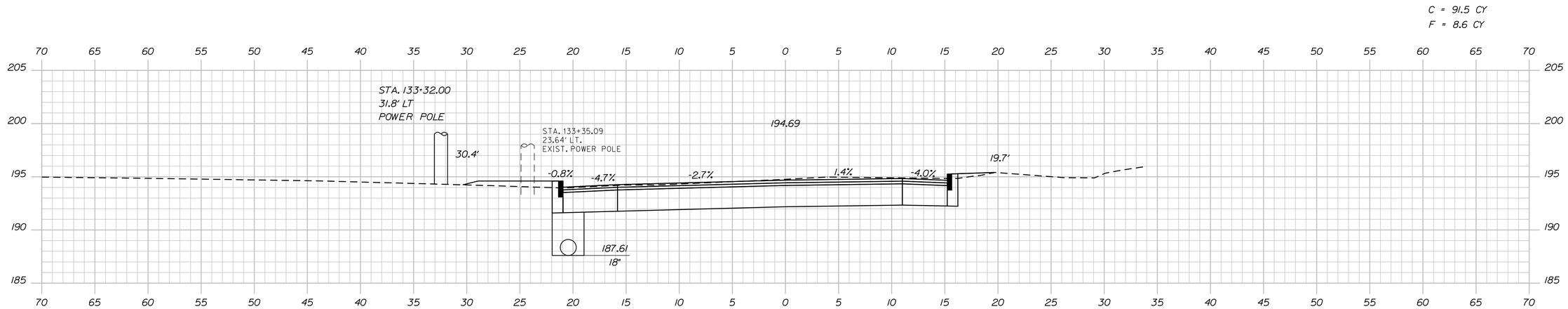
HERMON
RTE. 2 & BILLINGS RD.

CROSS SECTIONS

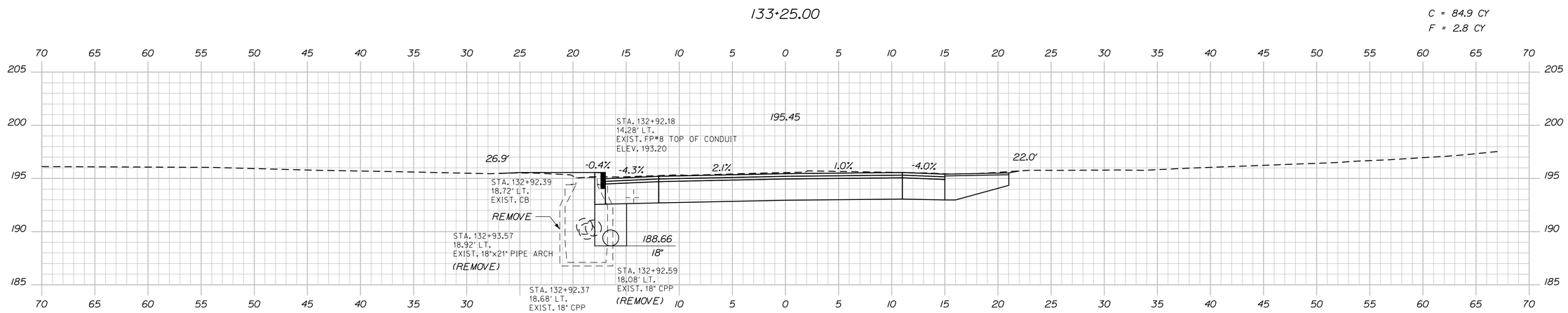
SHEET NUMBER
21
OF 29

Filename: ...\021_Xsect_BillingsRdC_5 scale_132+50.00.dgn Date:1/30/2015
Username: Jonathan.French

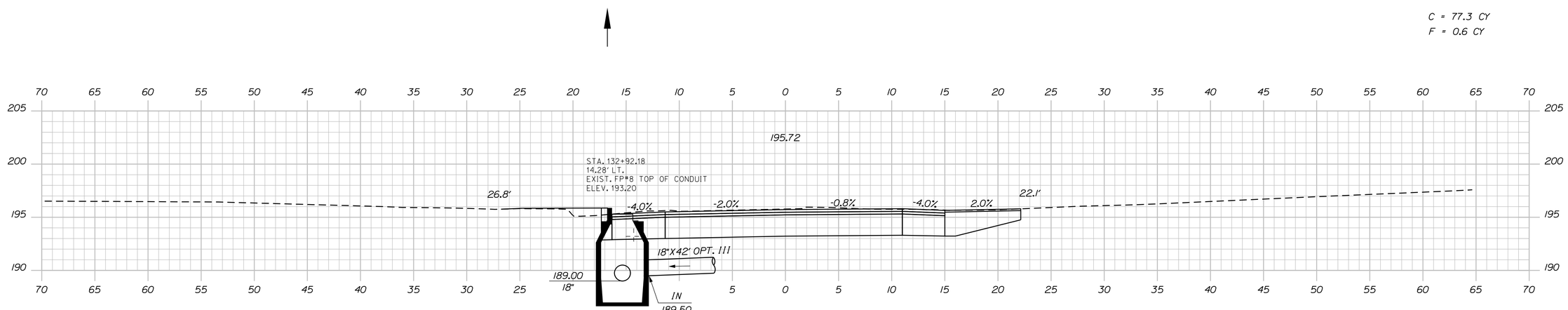
Sta. 132+50.00 to Sta. 132+92.00



133+25.00



133+00.00



132+92.00

CB#11 LT. TO CB#5 LT.
INSTALL 18"X 143' UD TYPE C

(CB#11) STA. 132+92.44, 14.8' LT.
CONSTRUCT CB TYPE AI-C
GRATE ELV. = 195.16
CONNECT EXIST. 18" CPP

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HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGNDETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKEDREVIEWED			
DESIGN2DETAILED2			
DESIGN3DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

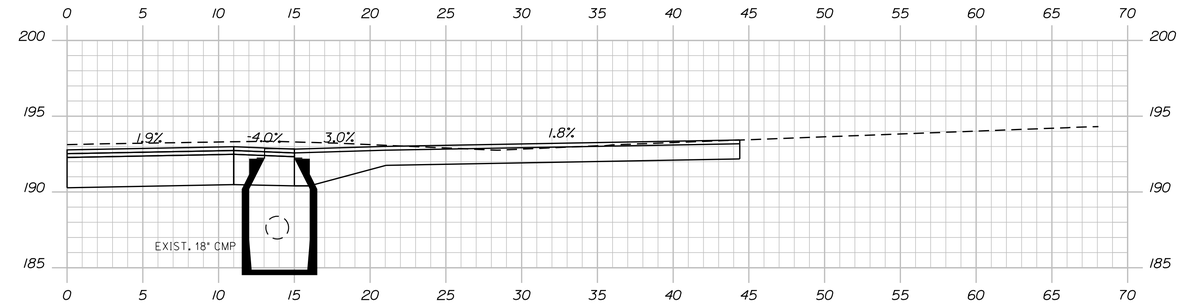
CROSS SECTIONS

SHEET NUMBER
22
OF 29

Sta. 133+00.00 to Sta. 133+50.00

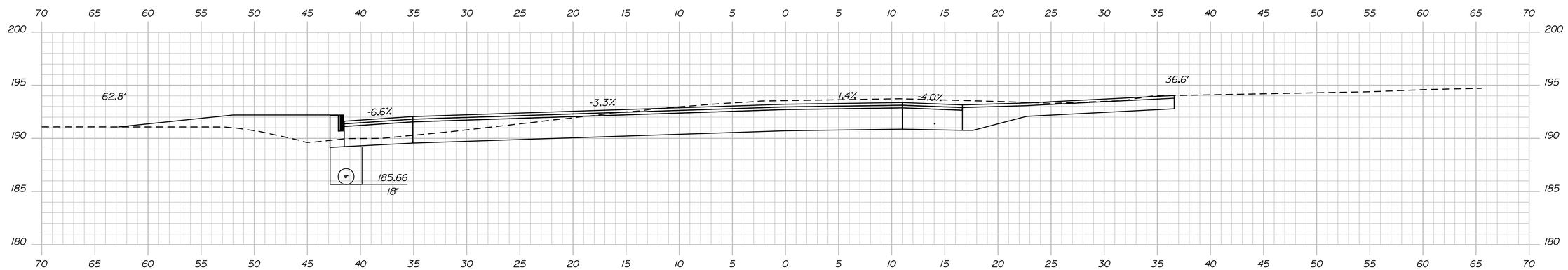
Filename: ...\022_Xsect_BillingsRdC_5 scale_133+00.dgn Date:1/30/2015 Username: Jonathan.French

*CB, MH & CULVERTS ACTUAL LOCATION & ELEVATION
WILL BE DETERMINED IN THE FIELD



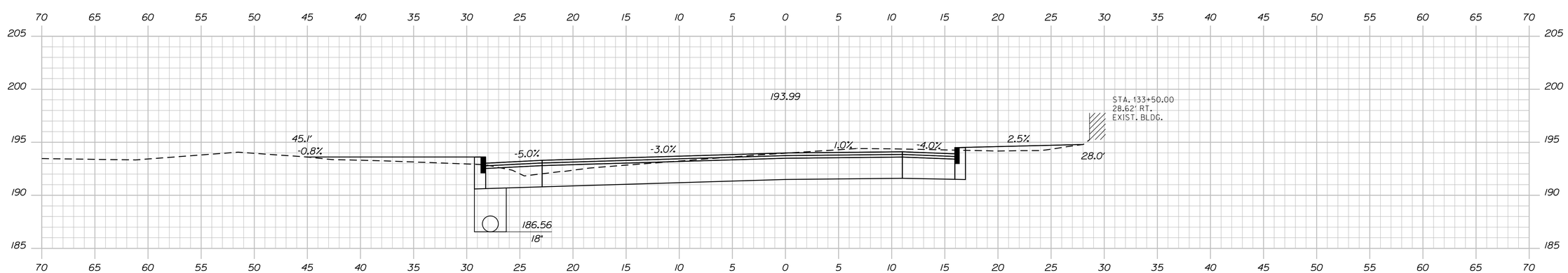
133+88.00

*(CB#14) STA. 133+88.18, 14.2' RT.
CONSTRUCT CB TYPE BI WITH SOLID COVER
CONNECT EXIST. 18" CMP



133+75.00

C = 105 CY
F = 17 CY



133+50.00

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17887.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGNDETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKEDREVIEWED	-----	-----	-----
DESIGNDETAILED2	-----	-----	-----
DESIGNDETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

CROSS SECTIONS

SHEET NUMBER
23
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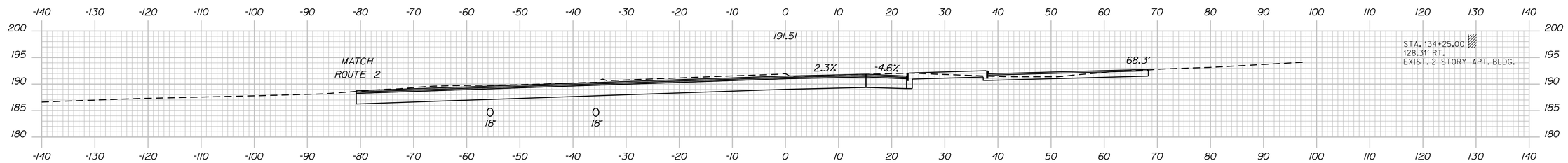
Sta. 133+75.00 to Sta. 133+75.00

Filename: ...\023_Xsect_BillingsRdC_5 scale_133+75.dgn Date:1/30/2015 Time:14:04:09 Level:HIGHWAY Username: Jonathon.French Date:1/30/2015

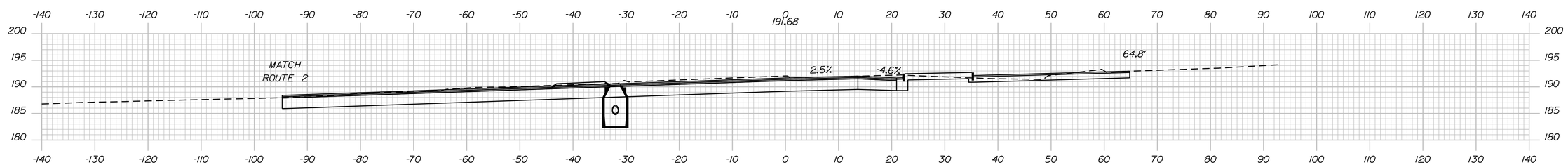
*CB. MH & CULVERTS ACTUAL LOCATION & ELEVATION
WILL BE DETERMINED IN THE FIELD

C = 188.9 CY



134+25.00

C = 225.6 CY

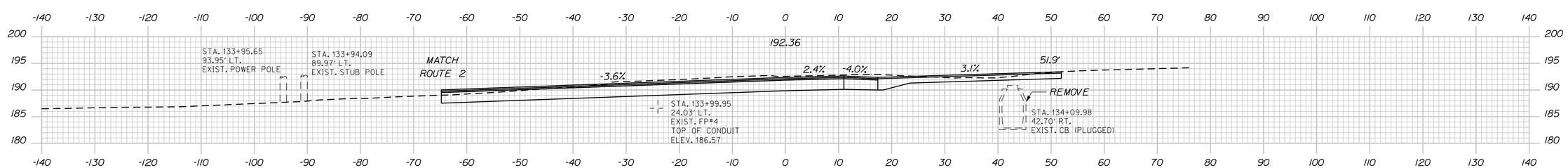


134+20.00

*(CB#12) STA. 134+20.00, 31.4' LT.
CONSTRUCT CB TYPE BI-C

*MH#2 RT. TO CB#12 LT.
INSTALL 18"X55' CULV. PIPE OPT. III

*CB#12 LT. TO MH#1 LT.
INSTALL 18"X31' CULV. PIPE OPT. III



134+00.00

STA. 133+92.00 RT.
CONSTRUCT PAVED ENT.
63' CURB OPENING

C = 152.9 CY
F = 11.2 CY

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HIGHWAY PLANS

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DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

HERMON
RTE. 2 & BILLINGS RD.

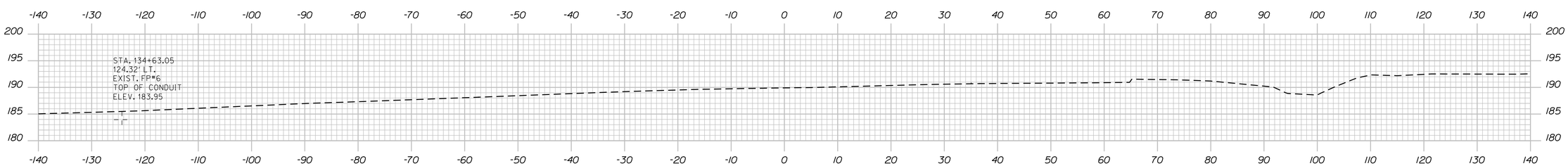
CROSS SECTIONS

SHEET NUMBER
24
OF 29

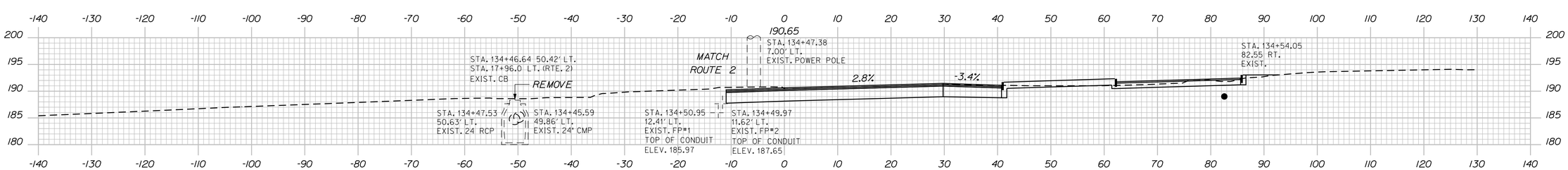
Filename: ...\024_Xsect_BillingsRd_10 scale_134+00.dgn Username: Jonathan.French Date:1/30/2015

Sta. 134+00.00 to Sta. 134+33.00

Filename: ...\025_Xsect_BillingsRd_10 scale_134+50.dgn Date:1/30/2015 Username: Jonathan.French



134+66.66



134+50.00

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	J. FRENCH	BT TRAN	SEP 2013
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
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REVISIONS 3	------	------	------
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WIN 17887.00

HIGHWAY PLANS

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RTE. 2 & BILLINGS RD.

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25

OF 29

Sta. 134+50.00 to Sta. 134+66.66

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION (L.O.W.P.)

DIANE EICHENLAUB
GAYLE ALAIMO
ITEM NO. (1)
TEMP. CONST. RIGHTS = 813± S.F. (2)
TOTAL AREA = 5± AC. (PER DEED)

DALE P. PORTER
SALLY A. PORTER
PARCEL NO. (3)
LAND TAKEN = 1499± S.F.
DRAINAGE EASE. = 963± S.F. (1)
TEMP. CONST. RIGHTS = 0.07± AC. (2)
TOTAL AREA = 1.18± AC. (PER TOWN)
REM. AREA = 1.15± AC.

GWENDOLYN G. TRENHOLM
PARCEL NO. (5)
LAND TAKEN = 657± S.F.
TEMP. CONST. RIGHTS = 348± S.F. (1)
TOTAL AREA = 16,117± S.F. (PER TOWN)
REM. AREA = 15,460± S.F.

ROBERT J. DURAN
PARCEL NO. (6)
LAND TAKEN = 1557± S.F. (PRESC. EASE.)
LAND TAKEN = 511± S.F. (OTHER)
TOTAL LAND TAKEN = 2068± S.F.
TEMP. CONST. RIGHTS = 0.06± AC. (1)
TOTAL AREA = 4.42± AC. (PER DEED)
REM. AREA = 4.37± AC.

CURVE DATA
PI = 12+45.55
D = 0°59'59.7"
Δ = 3°41'45.1" Lt.
R = 5730.00'
L = 369.61'
T = 184.87'
E = 2.98'

INLET DRAINAGE STRUCTURE
STA. 13+50 TO 13+80 LT.

PC = STA. 10+60.68
PRC = STA. 14+30.29
BEGIN B.L.
TO CARMEL
S.H. "221"
ROUTE 100/U.S. ROUTE 2
STAGE ROAD
REED HILL ROAD
CHURCH
P.L.
GRID
ZONE
SEPTIC TANK LOCATION
ROCK DRY WELL THIS VICINITY 8'X8'X6' PER POR.
LEACH FIELD
APPROX LOCATION
C.P. (APPROX.)
TOTAL = 504'±
179.04'
44.25' N76°05'31.1"E
110.40'
N79°32'58.2"E
70.01'
514.81'
(419.71')
(173')
369.61'
97.09'
134+00
STA. 17+42.63 S.H. "221" = STA. 134+66.66 BILLINGS ROAD
PT. OF HERMON
SEE S.H.C. FILE NO. 10-61
ROW TO OTHERS BOOK 1139 PAGE 296

DEBRA A. HIGGINS
ITEM NO. (2)
TEMP. CONST. RIGHTS = 716± S.F. (1)
TOTAL AREA = 0.28± AC. (PER TOWN)

PATRICIA L. REYNOLDS
TERRANCE E. REYNOLDS

R/W REFERENCES:

U.S. ROUTE 2
PENOBSCOT COUNTY
VOL. 4, PAGE 324
1850, 4 RODS

REED HILL ROAD
PENOBSCOT COUNTY
VOL. 4, PAGE 309
1850, 4 RODS

STAGE ROAD
PENOBSCOT COUNTY
VOL. 4, PAGE 281
1850, 4 RODS

SEE ALSO:

S.H.C. FILE NO. 10-61, 10-3, 10-3A
SHEET 1 OF 1, 1947

HEIRS OF ERNANDO OMICIOLI

DENNIS E. DEMMONS
LINDA F. DEMMONS

CAMDEN NATIONAL BANK
ITEM NO. (4)
TEMP. CONST. RIGHTS = 1362± S.F. (1)
TOTAL AREA = 3.50± AC. (PER TOWN)

CURVE DATA
PI = 17+04.74
D = 9°32'57.5"
Δ = 49°09'37.0" Rt.
R = 600.00'
L = 514.81'
T = 274.45'
E = 59.79'

JIM I. MABRY
SHARON A. MABRY
ITEM NO. (7)
TEMP. CONST. RIGHTS = 1206± S.F. (2)
TOTAL AREA = 0.52± AC. (PER OWNER)

BORDER EXPRESS, INC.
ITEM NO. (8)
TEMP. CONST. RIGHTS = 2359± S.F. (2)
TOTAL AREA = 0.57± AC. (PER DEED)

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

WIN 17887.00

SYMBOLS
WELL (WELL)
GROUNDING ANT LINE
CONSTRUCTION LIMIT 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
IP or IPF (IRON PIPE or PIN FOUND)
S.T. (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	BDM	

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	10/22/13	13371	218

DAVID BERNHARDT
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

STATE OF MAINE
BENJAMIN M. DARRAH 2399
PROFESSIONAL LAND SURVEYOR

To the best of my knowledge and belief the Highway Right of Way lines depicted hereon are based upon a survey conforming to the Standards of Practice promulgated by the Maine Board of Licensure for Professional Land Surveyors 02-360 CMR, Chapter 90; Exceptions: (1) No separate survey report, (2) Monumentation only as shown on plan. See sheet 5 of this plan set for coordinates. (3) Other boundary lines, including lines between abutters are approximate and for general reference purposes only.

STATE HIGHWAY "221" / STATE AID HWY. NO. 2
U.S. ROUTE 2 / ROUTE 100 / BILLINGS RD.
HERMON PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1788(700)X

MARCH 2013 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 10-483
SCALE 1" = 25' | SHEET 1 OF 5

SHEET NUMBER
26
OF 29

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: Jonathon.French Date:1/30/2015

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION (L.O.W.P.)

ERNEST D. WHEELER

ROBERT J. DURAN
PARCEL NO. (6)
LAND TAKEN = 1557± S.F. (PRESC. EASE.)
LAND TAKEN = 511± S.F. (OTHER)
TOTAL LAND TAKEN = 2068± S.F.
TEMP. CONST. RIGHTS = 0.06± AC. (1)
TOTAL AREA = 4.42± AC. (PER DEED)
REM. AREA = 4.37± AC.

JOYCE L. SCRIPTURE
LLOYD R. SCRIPTURE
PARCEL NO. (9)
LAND TAKEN = 0.08± AC. (PRESC. EASE.)
LAND TAKEN = 113± S.F. (OTHER)
TOTAL LAND TAKEN = 0.08± AC.
TEMP. CONST. RIGHTS = 1355± S.F. (1)
TOTAL AREA = 1± AC. (PER OWNER)
REM. AREA = 0.92± AC.

CHRISTINA M. RIOS
NIXON M. RIOS
PARCEL NO. (12)
LAND TAKEN = 968± S.F. (PRESC. EASE.)
LAND TAKEN = 624± S.F. (OTHER)
TOTAL LAND TAKEN = 1592± S.F.
TOTAL AREA = 0.98± AC. (PER TOWN)
REM. AREA = 0.94± AC.

NORTHERN NEW ENGLAND TELEPHONE OPERATIONS, LLC
PARCEL NO. (11)
LAND TAKEN = 0.05± AC. (PRESC. EASE.)
LAND TAKEN = 1780± S.F. (OTHER)
TOTAL LAND TAKEN = 0.09± AC.
TOTAL AREA = 0.23± AC. (PER TOWN)
REM. AREA = 0.14± AC.

SEE UTILITY EASEMENT AGREEMENTS REF. VOL. 2808, PAGE 262 TO C.M.P. CO. AND VOL. 2863 PAGE 158 TO C.M.P. CO. & N.E.T & T. CO.

MEADOW APARTMENTS, LLC
PARCEL NO. (10)
LAND TAKEN = 0.13± AC. (PRESC. EASE.)
LAND TAKEN = 0.10± AC. (OTHER)
TOTAL LAND TAKEN = 0.23± AC.
TEMP. CONST. RIGHTS = 0.08± AC. (1)
TOTAL AREA = 3± AC. (PER OWNER)
REM. AREA = 2.77± AC.

CURVE DATA BILLINGS ROAD
PI = 134+18.36
D = 14°19'26.2"
Δ = 13°54'25.7" Lt.
R = 400.00'
L = 97.09'
T = 48.78'
E = 2.96'

CURVE DATA
PI = 17+04.74
D = 9°32'57.5"
Δ = 49°09'37.0" Rt.
R = 600.00'
L = 514.81'
T = 274.45'
E = 59.79'

JIM I. MABRY
SHARON A. MABRY
ITEM NO. (7)
TEMP. CONST. RIGHTS = 1206± S.F. (2)
TOTAL AREA = 0.52± AC. (PER OWNER)

BORDER EXPRESS, INC.
ITEM NO. (8)
TEMP. CONST. RIGHTS = 2359± S.F. (2)
TOTAL AREA = 0.57± AC. (PER DEED)

TOM T. HERMON, LLC
ITEM NO. (14)
TEMP. CONST. RIGHTS = 118± S.F. (1)
TOTAL AREA = 0.61± AC. (PER TOWN)

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

R/W REFERENCES:

U.S. ROUTE 2
PENOBSCOT COUNTY
VOL. 4, PAGE 324
1850, 4 RODS

REED HILL ROAD
PENOBSCOT COUNTY
VOL. 4, PAGE 309
1850, 4 RODS

STAGE ROAD
PENOBSCOT COUNTY
VOL. 4, PAGE 281
1850, 4 RODS

SEE ALSO:

S.H.C. FILE NO. 10-61, 10-3, 10-3A
SHEET 1 OF 1, 1947

WIN 17887.00

SYMBOLS
WELL (WELL)
GROUNDING UNIT LINE
CONSTRUCTION LIMIT 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
IP or IPF (IRON PIPE or PIN FOUND)
S.T. (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	BDM	

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

HERMON
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

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DAVID BERNHARDT
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

STATE OF MAINE
BENJAMIN M. DARRAH
2399
PROFESSIONAL LAND SURVEYOR

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U.S. ROUTE 2 / ROUTE 100 / BILLINGS RD.
HERMON PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1788(700)X

MARCH 2013 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 10-483
SCALE 1" = 25' | SHEET 2 OF 5

SHEET NUMBER
27
OF 29

Filename: ...\00\ROW\MSTA\002_RWPLAN2.dgn Division: HIGHWAY Username: Jonathan.French Date:1/30/2015

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STATE OF MAINE
REGISTRY OF DEEDS
COUNTY _____
RECEIVED _____, _____
at _____h_____m_____M and recorded in
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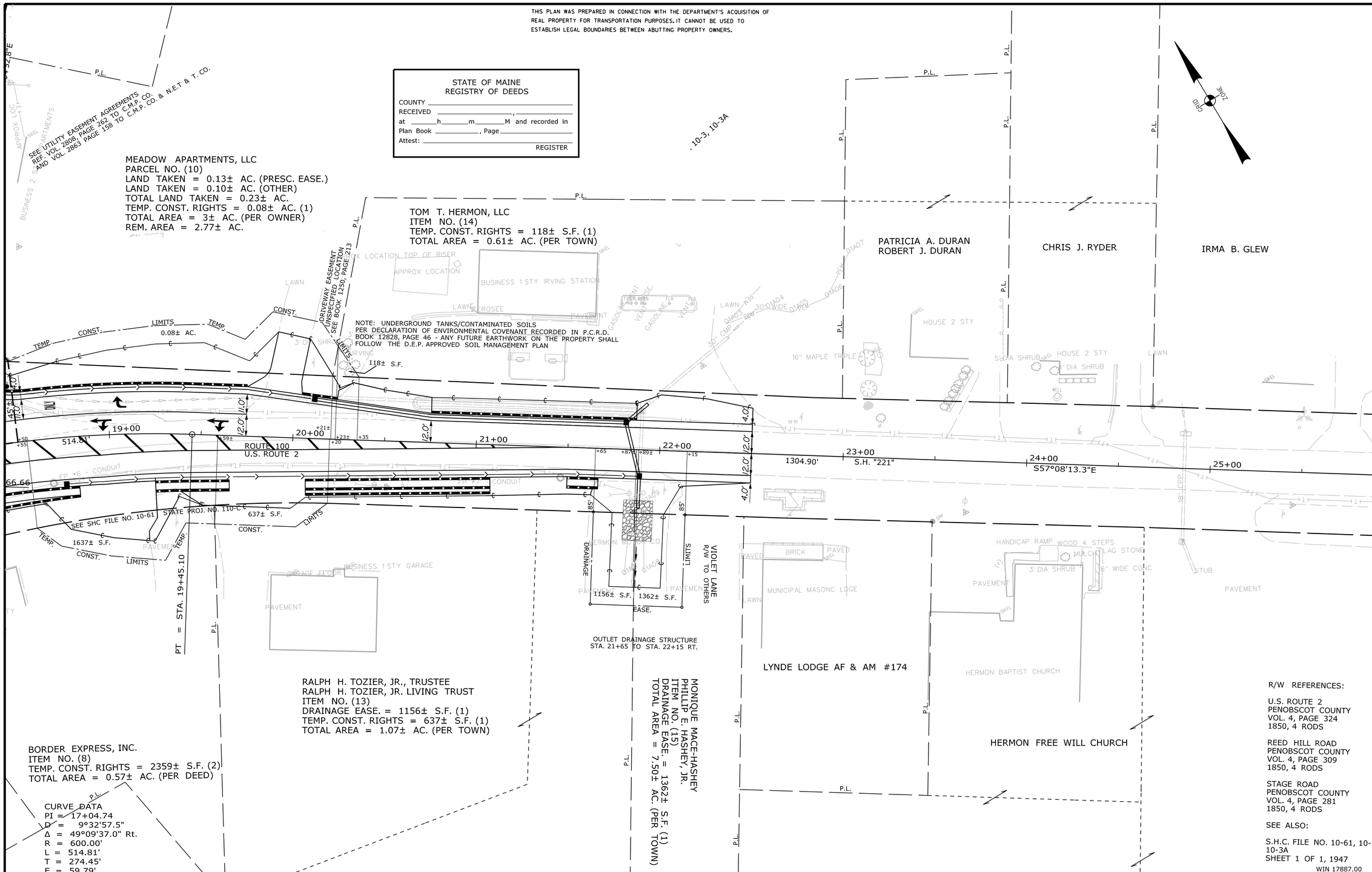
REGISTER



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

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

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

HERMON
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

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STATE HIGHWAY "221" / STATE AID HWY. NO. 2
U.S. ROUTE 2 / ROUTE 100 / BILLINGS RD.
HERMON PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1788(700)X

MARCH 2013 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 10-483
SCALE 1" = 25' | SHEET 3 OF 5

SHEET NUMBER
28
OF 29

Filename: ...\00\ROW\MSTA\003_RWPLAN3.dgn Division: HIGHWAY Username: Jonathon.French Date:1/30/2015

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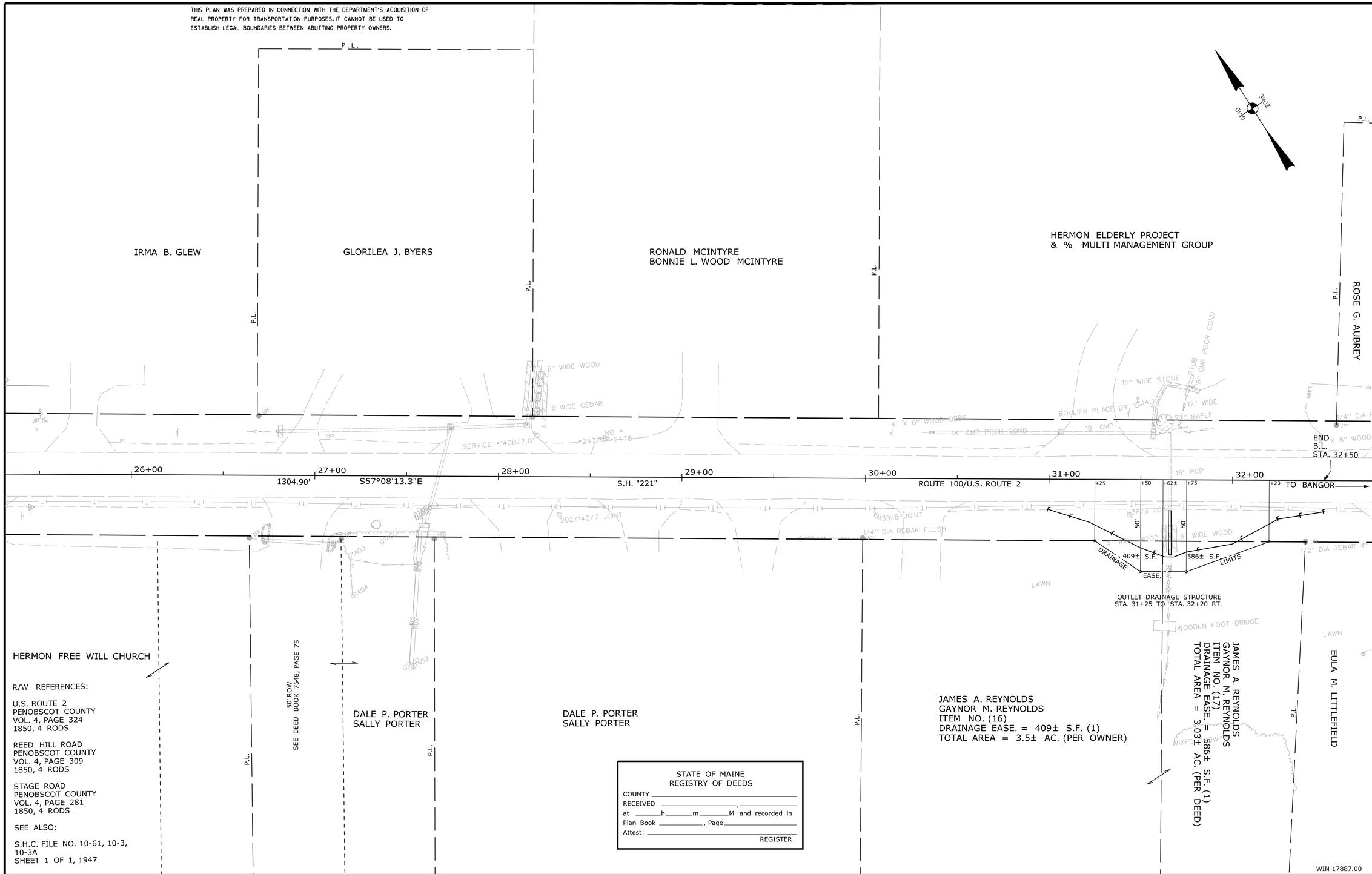

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h_____m_____M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

SYMBOLS

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

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

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

HERMON
RIGHT OF WAY MAP

REVISIONS

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KENNETH L. SWEENEY
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STATE HIGHWAY "221" / STATE AID HWY. NO. 2
U.S. ROUTE 2 / ROUTE 100 / BILLINGS RD.
HERMON PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1788(700)X

MARCH 2013 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 10-483
SCALE 1" = 25' | SHEET 4 OF 5

SHEET NUMBER
29
OF 29

Filename: ...\00\ROW\MSTA\004_RWPLAN4.dgn Division: HIGHWAY Username: Jonathon.French Date:1/30/2015