

Date: 3/23/2010

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Division: HIGHWAY

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



KENNEBUNK, ARUNDEL, AND BIDDEFORD
YORK COUNTY

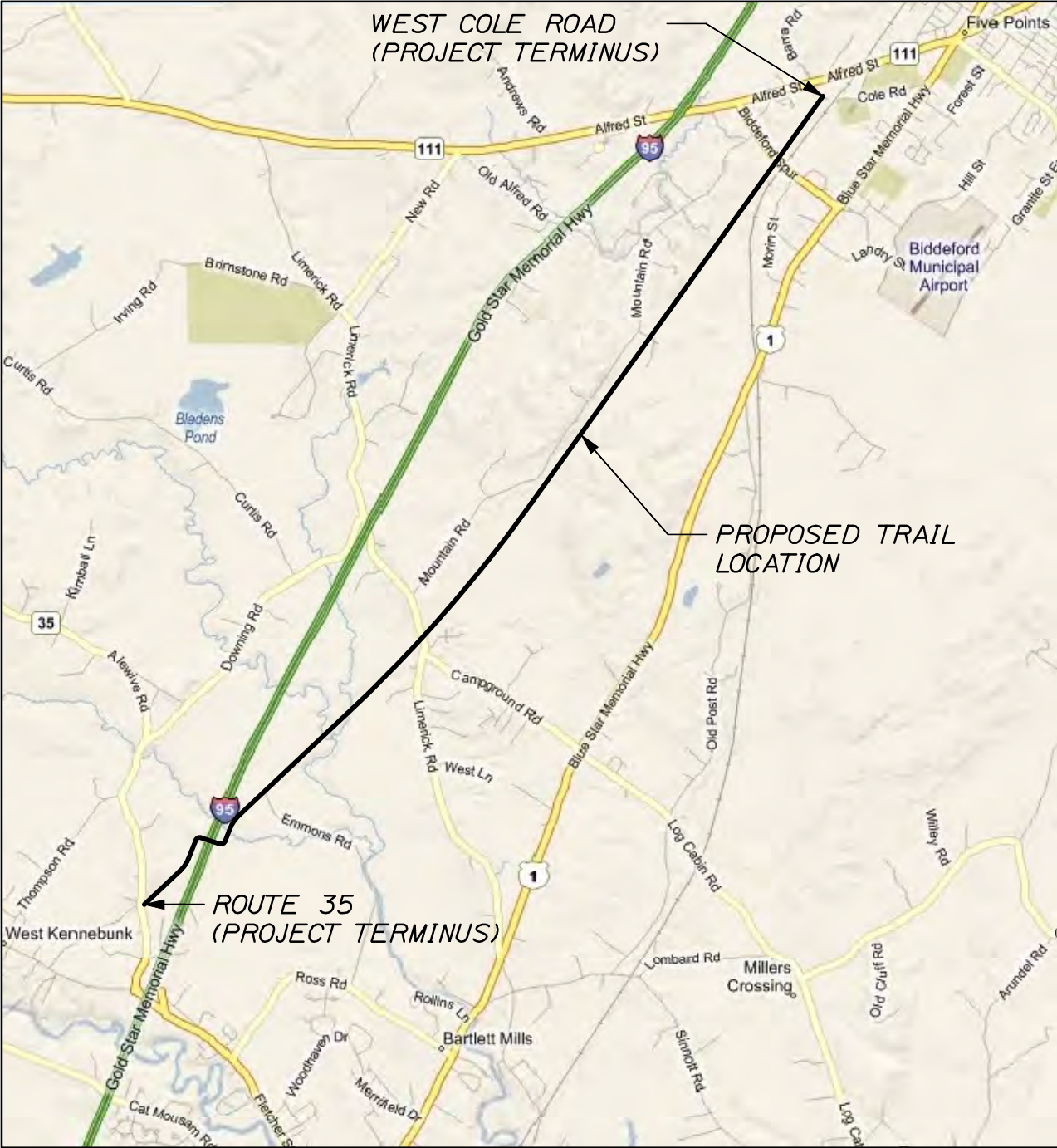
STP-1334(100)S

EASTERN TRAIL:
MULTI-USE RECREATIONAL
TRAIL DEVELOPMENT

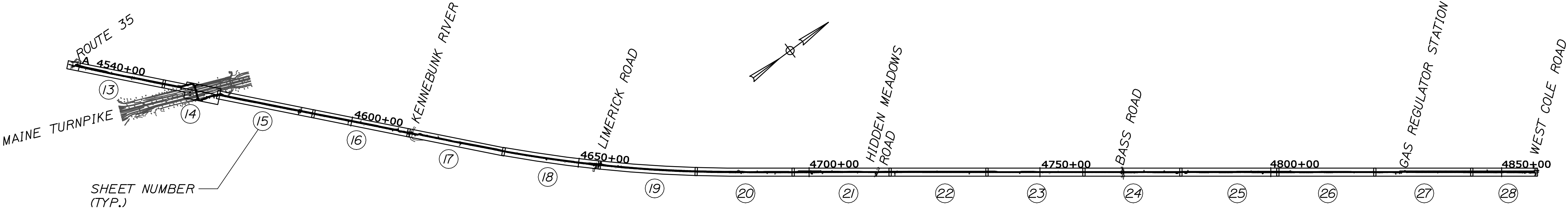
PROJECT LENGTH : 6.1 mi.

A GRADING, BASE, SURFACE, TRAIL
AND BRIDGE PROJECT

REVISED PLANS
MARCH 1, 2010



LOCATION MAP



LAYOUT PLAN



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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED		DATE
	COMMISSIONER:		
	CHIEF ENGINEER:		

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE	SIGNATURE	P.E. NUMBER	DATE

EASTERN TRAIL KENNEBUNK TO BIDDEFORD	
TITLE SHEET	

SHEET NUMBER
1
OF -

Date:8/18/2009

Filename: 002_General Notes.dgn

GENERAL NOTES

- 1.THE MULTI-USE TRAIL IS INTENDED TO BE BUILT ON TOP OF THE EXISTING RAILROAD EMBANKMENT. HORIZONTAL TRAIL ALIGNMENT IS APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD TO FIT OVER CULVERTS AND BETWEEN LEDGE CUTS AND TO REDUCE CLEARING AND EARTHWORK REQUIREMENTS. ALL ADJUSTMENTS SHALL BE COORDINATED AND APPROVED BY THE RESIDENT IN ADVANCE OF THE WORK.
2. ALL WORK TO BE DONE UNDER THIS CONTRACT SHALL BE GOVERNED BY THE "STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS", REVISION OF DECEMBER 2002, UPDATED AUGUST 2008 AND "STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS", REVISION OF DECEMBER 2002, UPDATED FEBRUARY 2009, EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
3. ALL TREES, BRUSH, VEGETATION, STUMPS, AND OTHER ITEMS SHALL BE REMOVED FROM THE AREA. ALL DEBRIS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AND CODES.
4. ITEM 203.20 SHALL INCLUDE THE REMOVAL OF EXISTING VEGETATION, TOPSOIL, ROAD SURFACE, MUCK AND OTHER MATERIALS ENCOUNTERED. MUCK SHALL BE EXCAVATED TO THE DEPTHS SHOWN ON THE PLANS AND DISPOSED AS DIRECTED BY THE RESIDENT.
5. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. PRIOR TO ANY DIGGING CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-800-344-7233 TO DETERMINE LOCATIONS OF EXISTING UNDERGROUND UTILITIES. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
6. GRANITE STATE GAS TRANSMISSION CO. MAINTAINS AND OPERATES A HIGH PRESSURE NATURAL GAS TRANSMISSION LINE ALONG THE FULL LENGTH OF THE PROPOSED TRAIL CORRIDOR. THE CONTRACTOR IS ADVISED THAT THE RESTRICTIONS OUTLINED IN SPECIAL PROVISION 104 WILL APPLY TO ALL WORK COMPLETED WITHIN THE TRANSMISSION CORRIDOR.
7. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED. COORDINATION SHALL BE BY THE DEPARTMENT.
8. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
- KENNEBUNK SEWER DISTRICT
CITY OF BIDDEFORD
KENNEBUNK LIGHT AND POWER DISTRICT
CENTRAL MAINE POWER COMPANY
KENNEBUNK, KENNEBUNKPORT, AND WELLS WATER DISTRICT
VERIZON FAIRPOINT COMMUNICATIONS
GRANITE STATE GAS TRANSMISSION CO.
NORTHERN UTILITIES
9. UNLESS DIRECTED BY THE RESIDENT, ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 2" LOAM AND BE SEEDED WITH METHOD *I. MULCH SHALL BE APPLIED IN AREAS SEEDED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND STAGING.
11. PLACE A 2 FT WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ALONG THE TOP OF ALL RIPRAP SLOPES.
12. DO NOT EXCAVATE FOR AGGREGATE SUBBASE COURSE WHERE EXISTING MATERIAL IS SUITABLE AS DETERMINED BY THE ENGINEER.
13. BASED ON THE SCOPE OF WORK AND CURRENT CONDITION OF THE PROJECT PROPERTY, NO PETROLEUM OR HAZARDOUS WASTE IS EXPECTED TO BE ENCOUNTERED. HOWEVER, DURING THE DURATION OF THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY RAILROAD TIES ENCOUNTERED THAT CAN NOT BE REUSED ON SITE. THE CONTRACTOR IS RESPONSIBLE TO HAVE THE UNUSED TIES DISPOSED OF AS DEMOLITION WASTE AT A LANDFILL APPROVED TO ACCEPT DEMOLITION WASTE/DEBRIS. IF THE CONTRACTOR ENCOUNTERS ANY OTHER POTENTIAL DEMOLITION DEBRIS AND IS NOT SURE OF HOW TO DISPOSE, THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT SHALL CONTACT THE HYDROGEOLOGIST IN MDOT'S ENVIRONMENTAL OFFICE AT 207-624-3103 FOR CLARIFICATION. THE CONTRACTOR SHALL ALSO REMAIN ALERT FOR EVIDENCE OF PETROLEUM AND HAZARDOUS WASTE/MATERIALS CONTAMINATION. IN PARTICULAR ANY EVIDENCE OF COAL ASH. IF THE CONTRACTOR ENCOUNTERS EVIDENCE OF SOIL OR GROUNDWATER CONTAMINATION, THE CONTRACTOR SHALL SECURE THE EXCAVATION, STOP WORK IN THE CONTAMINATED AREA, AND IMMEDIATELY NOTIFY THE RESIDENT. THE RESIDENT SHALL CONTACT THE HYDROGEOLOGIST IN MAINE DOT'S ENVIRONMENTAL OFFICE AT 207-624-3100 AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AT 800-482-0777. WORK MAY ONLY CONTINUE WITH AUTHORIZATION FROM THE RESIDENT.
14. BOLLARDS AND POSTS FOR SIGNS, TIMBER GUARDRAIL AND CEDAR RAIL FENCE MUST BE A MINIMUM OF 1 FOOT FROM GAS LINE. IF WITHIN 3 FEET OF GAS LINE, THE CONTRACTOR SHALL COORDINATE THEIR INSTALLATION WITH THE GAS COMPANY'S REPRESENTATIVE.
15. CONTRACTOR SHALL INSTALL TWO TRAIL KIOSKS AT LOCATIONS DETERMINED BY THE RESIDENT.

16. CLEARING SHALL BE MINIMIZED. HOWEVER, AT SIGNIFICANT EMBANKMENT SECTIONS CLEARING SHALL BE 5' FROM TOE OF SLOPE, EXCEPT WHERE OTHERWISE NOTED.
17. WHERE PROPERTY LINE BEARINGS AND DISTANCES ARE NOT SHOWN, RIGHT-OF-WAY INFORMATION HAS BEEN APPROXIMATED BASED ON AVAILABLE RAILROAD VALUATION PLANS.
18. FOR EASEMENT DESCRIPTIONS REFER TO RIGHT OF WAY MAP.
19. THE LOCATION AND EXTENT OF CEDAR RAIL FENCE IS SHOWN FOR ESTIMATING PURPOSES. THE FINAL LOCATION AND QUANTITY OF FENCING SHALL BE DETERMINED BY THE RESIDENT.
20. BOULDERS SHALL BE PLACED AT INTERSECTING PATHS TO PREVENT VEHICULAR ACCESS TO EASTERN TRAIL LOCATIONS SHALL BE AS SHOWN ON PLANS OR AS DIRECTED BY THE RESIDENT.
21. REMOVAL AND DISPOSAL OF GATES AND FENCE SHALL BE INCIDENTAL TO SECTION 607.
22. REMOVAL AND DISPOSAL OF CULVERTS SHOWN ON THE PLANS SHALL BE INCIDENTAL TO SECTION 603. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED, OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
23. BOLLARDS, CEDAR RAIL FENCE, AND TIMBER GUARDRAIL SHALL BE INSTALLED AT LEAST 10 FEET FROM THE EDGE OF ROADWAY.
24. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).
25. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.
26. INLETS AND OUTLETS OF ALL PROPOSED CULVERTS SHALL BE RIPRAPPED IN ACCORDANCE WITH MAINE STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
27. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE RESIDENT.
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. *UNDETERMINED LOCATIONS* SHALL BE DETERMINED BY THE RESIDENT.
30. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION & SEDIMENTATION CONTROL, FEBRUARY, 2008.
31. SUBSURFACE SOILS INFORMATION IS PROVIDED IN THE FOLLOWING REPORTS PREPARED BY SEBAGO TECHNIC'S:
- *REPORT ON SUBSURFACE AND FOUNDATION INVESTIGATION:
PROPOSED EASTERN TRAIL, KENNEBUNK RIVER, ROUTE 35
AND LIMERICK ROAD CROSSING KENNEBUNK AND ARUNDEL, MAINE*
- *REPORT ON SUBSURFACE AND FOUNDATION INVESTIGATION:
PROPOSED EASTERN TRAIL MAINE TURNPIKE CROSSING
KENNEBUNK, MAINE*
32. SURVEY TIE POINTS ARE PROVIDED ON SHEETS 29 (ROUTE 35), 51 (LIMERICK ROAD), AND 59 (WEST COLE ROAD).
33. PROPOSED LOCATIONS FOR EROSION AND SEDIMENTATION CONTROL DEVICES HAVE BEEN DEVELOPED FOR PORTIONS OF THE TRAIL LOCATED WITHIN THE KENNEBUNK TOWN LIMITS AS A REQUIREMENT OF SITE PLAN APPROVAL. THE CONTRACTOR SHALL REVIEW AND MODIFY THE LOCATIONS OF THESE DEVICES AS NEEDS WARRANT. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT EROSION AND SEDIMENTATION CONTROL DEVICES FOR THE REMAINDER OF THE CORRIDOR IN ACCORDANCE WITH MAINE DEPARTMENT OF ENVIRONMENTAL BEST MANAGEMENT PRACTICES AND SHEET 12 OF THIS PLAN SET. PAYMENT FOR DEVELOPING, INSTALLING, AND MAINTAINING EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE PAID UNDER ITEM 656.75 "TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL".
34. AT THE EXISTING PRECOURT STREET OVERPASS THE CONTRACTOR SHALL INSTALL A BRIDGE DRAIN EXTENSION TO DIVERT BRIDGE RUNOFF AWAY FROM THE TRAIL SURFACE IN ACCORDANCE WITH SPECIAL PROVISION 502.
35. WHERE TYPICAL SECTION CALL-OUTS ARE DESIGNATED ON THE TRAIL PLANS THE LIMITS SHALL BE CONSIDERED APPROXIMATE. THE LIMIT AND TYPE OF TYPICAL SECTION TO BE USED MAY BE CHANGED BASED ON EXISTING CONDITIONS AS DIRECTED BY THE RESIDENT.
36. THE CONTRACTOR MAY UTILIZE EMBANKMENT SURCHARGE MATERIAL FOR CONSTRUCTION OF THE TRAIL BETWEEN ROUTE 35 AND THE TURNPIKE ONCE THE SURCHARGE PERIOD IS COMPLETE. IF ELECTED, THE CONTRACTOR SHALL USE SURCHARGE MATERIALS APPROPRIATE FOR TRAIL CONSTRUCTION. WHERE SURCHARGE MATERIAL WILL NOT BE USED FOR TRAIL CONSTRUCTION COMMON BORROW MAY BE USED.
37. CONTRACTOR SHALL NOTE THAT RESERVE LIMITS HAVE BEEN PLACED ON THE FOLLOWING LOCATIONS:

STA. 455+40, LT., CULVERT EXTENSION
STA. 460+50, LT., CULVERT EXTENSION
STA. 4612+00 TO STA. 4614+50, TRAIL CONSTRUCTION
STA. 4651+00 TO STA. 4654+25, TRAIL CONSTRUCTION
STA. 4707+50, LT., CULVERT EXTENSION

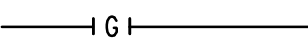













NO WORK SHALL OCCUR AT THESE LOCATIONS BEFORE MARCH 1, 2010 OR UNTIL REVISED ENVIRONMENTAL PERMITS ARE RECEIVED, AS APPROVED BY THE RESIDENT. CONTRACTOR SHALL NOTE OTHER WORK RESTRICTIONS MAY EXIST AS NOTED IN THE SPECIFICATIONS (DATE RESTRICTIONS RELATING TO GAS COMPANY) OR AS NOTED IN THE ENVIRONMENTAL PERMITS (IN-STREAM WORK WINDOWS). COORDINATE ALL WORK WITH THE RESIDENT.

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QTY	UNIT
201.11	CLEARING	3	AC
201.12	SELECTIVE CLEARING AND THINNING	4	AC
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	4	CY
203.20	COMMON EXCAVATION	4250	CY
203.24	COMMON BORROW	17200	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY	30	CY
209.29	PREFABRICATED VERTICAL DRAINS	87600	LF
304.09	AGGREGATE BASE COURSE - CRUSHED, TYPE B	11500	CY
304.1	AGGREGATE SUBBASE COURSE - GRAVEL, TYPE D	2530	CY
403.209	HOT MIX ASPHALT, 9.5mm NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS	18	TON
403.210	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE	88	TON
411.13	STONE DUST SURFACE COURSE	6600	TON
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (21 CY)	1	LS
502.327	STRUCTURAL CONCRETE BOX CULVERT EXTENSION	1	LS
502.6	PORTLAND CEMENT MORTAR	10	CF
502.71	BRIDGE DRAIN EXTENSION	1	EA
530.01	PREFABRICATED STEEL TRUSS BRIDGE, IN PLACE	1	LS
603.175	18 INCH RCP CLASS III	160	LF
603.179	18 INCH CULVERT PIPE OPTION III	24	LF
603.199	24 INCH CULVERT PIPE OPTION III	140	LF
603.219	36 INCH CULVERT PIPE OPTION III	8	LF
603.4105	CONCRETE PIPE COLLAR	2	EA
603.471	60" RCP CLASS V	112	LF
606.611	TIMBER GUARDRAIL	530	LF
607.163	CHAIN LINK FENCE - 4 FT - PVC COATED, BLACK	1050	LF
607.22	CEDAR RAIL FENCE	7250	LF
607.294	BARRIER BOULDERS	61	EA
607.35	BRACING ASSEMBLY CHAIN LINK FENCE - PVC COATED	12	EA
608.26	CURB RAMP DETECTABLE WARNING FIELD	210	SF
610.08	PLAIN RIPRAP	640	CY
610.21	RIVER STONES	40	CY
610.212	STREAM STONE	10	CY
613.319	EROSION CONTROL BLANKET	3970	SY
615.07	LOAM	2050	CY
618.13	SEEDING METHOD NUMBER 1	340	UNIT
618.143	SPECIAL SEED MIX WETLAND SEED	8	UNIT
618.15	TEMPORARY SEEDING	84	UNIT
619.12	MULCH	340	UNIT
619.1401	EROSION CONTROL MIX	50	CY
620.58	EROSION CONTROL GEOTEXTILE	1635	SY
620.6	SEPARATION GEOTEXTILE	1400	SY
621.037	EVERGREEN TREE (5'-8')	21	EA
621.546	DECIDUOUS SHRUBS (2' - 3') GROUP A	700	EA
621.8	ESTABLISHMENT PERIOD	1	LS
627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	1300	SF
629.05	HAND LABOR, STRAIGHT TIME	120	HR
631.12	ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	50	HR
631.133	SKID-STEER (INCLUDING OPERATOR)	20	HR
631.14	GRADER (INCLUDING OPERATOR)	20	HR
631.171	TRUCK-SMALL (INCLUDING OPERATOR)	30	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	10	HR
631.32	CULVERT CLEANER (INCLUDING OPERATORS)	20	HR
631.36	FOREMAN	40	HR
635.31	PREFABRICATED CONCRETE BLOCK GRAVITY WALL	2250	SF
639.18	FIELD OFFICE, TYPE A	1	EA
641.89	KIOSK	2	EA
645.103	DEMOUNT GUIDE SIGN	1	EA
645.113	REINSTALL GUIDE SIGN	1	EA
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN, TYPE I	550	SF
646.091	SETTLEMENT PLATFORMS	1	LS
652.33	DRUM	140	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	780	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	40	HR
652.362	MAINTENANCE OF TRAFFIC CONTROL DEVICES (MAINE TURNPIKE AUTHORITY)	1	LS
656.75	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
841.48	BOLLARDS	4	EA
841.49	BOLLARDS - COLLAPSIBLE	30	EA

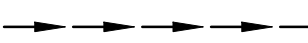
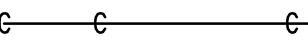
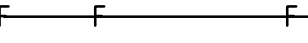
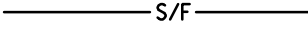

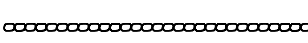

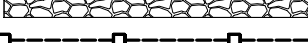






† = REVISED QUANTITIES
* = UNDETERMINED LOCATION

LEGEND

EXISTING FEATURES

-  GAS LINE
-  SEWER LINE
-  TREE LINE
-  EDGE OF PAVEMENT
-  EDGE OF STREAM/WATER
-  EXPOSED LEDGE
-  ROW FENCE
-  PROPERTY LINE
-  ROW LINE
-  WETLANDS
-  DITCH LINE
-  RIPRAP
-  UTILITY POLE
-  BORING

PROPOSED FEATURES

-  DITCH LINE
-  LIMIT OF CUT SLOPE
-  LIMIT OF FILL SLOPE
-  SILT FENCE
-  OR SEDIMENT BARRIER
-  RIPRAP PIPE OUTLET
-  OR STONE DITCH PROTECTION
-  RIPRAP SLOPE PROTECTION
-  4' PVC COATED CHAIN LINK FENCE
-  CEDAR RAIL FENCE
-  TIMBER GUARDRAIL
-  BARRIER BOULDERS
-  SIGN
-  SIGN NUMBER - SEE SIGNING DETAILS FOR DESCRIPTIONS

HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED
DRAWN
CHECKED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
REVISIONS 5
REVISIONS 6

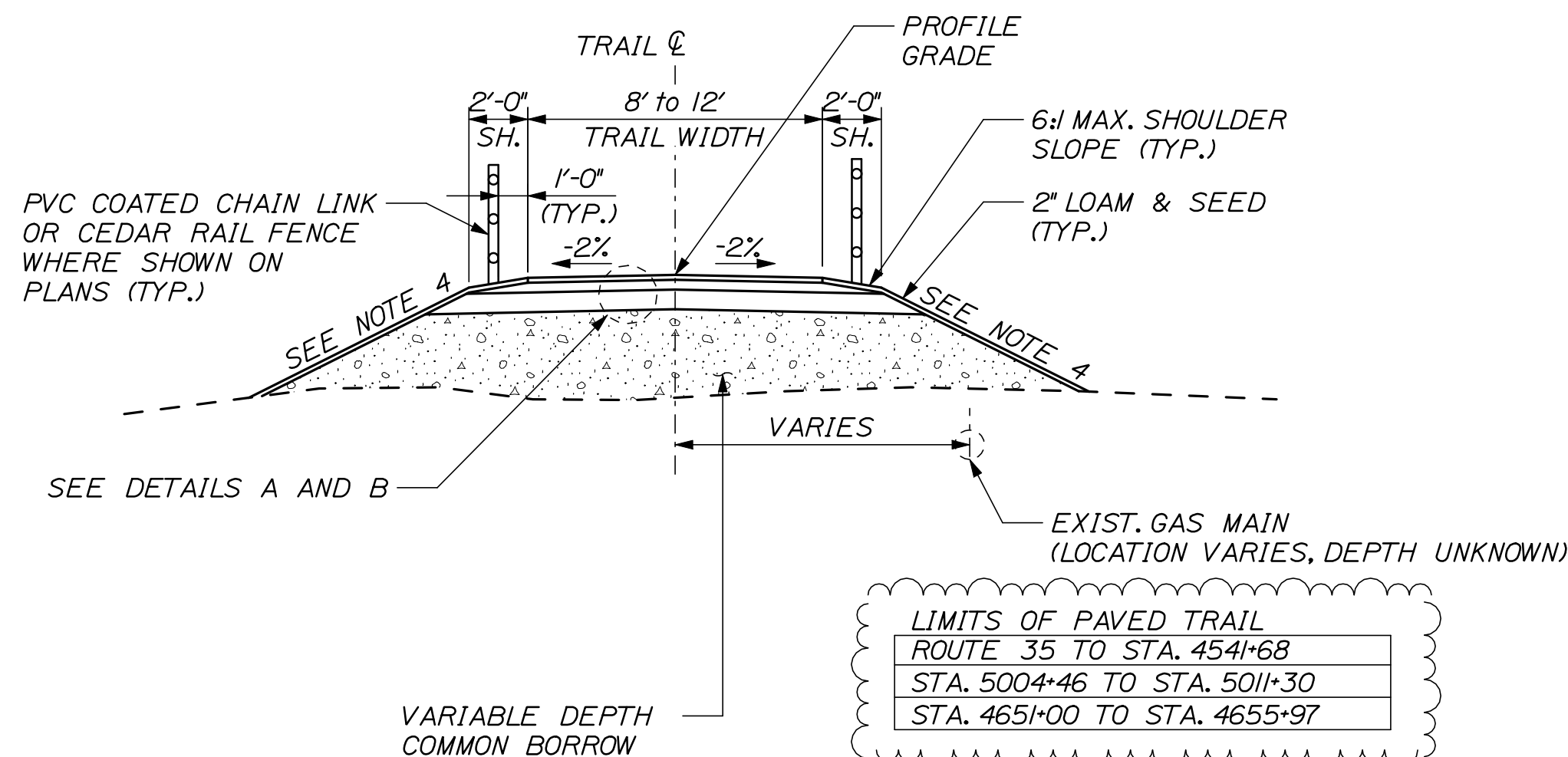
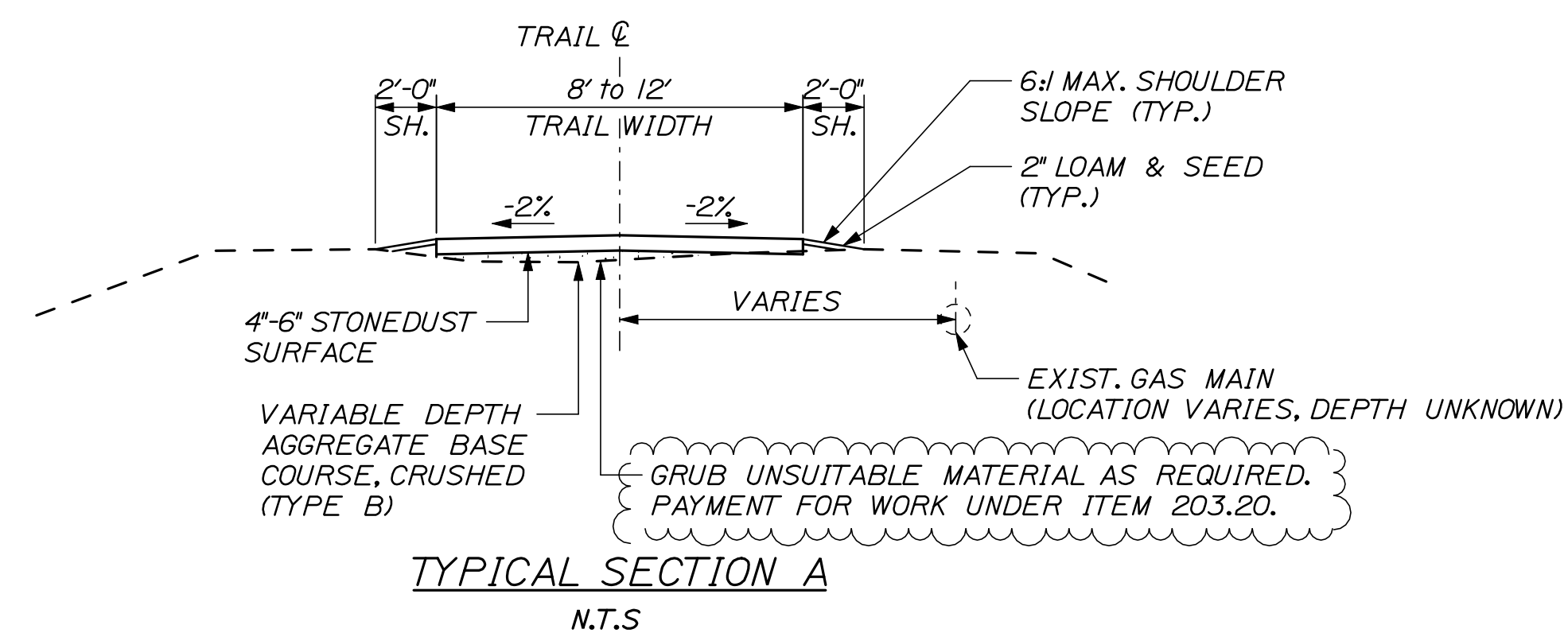
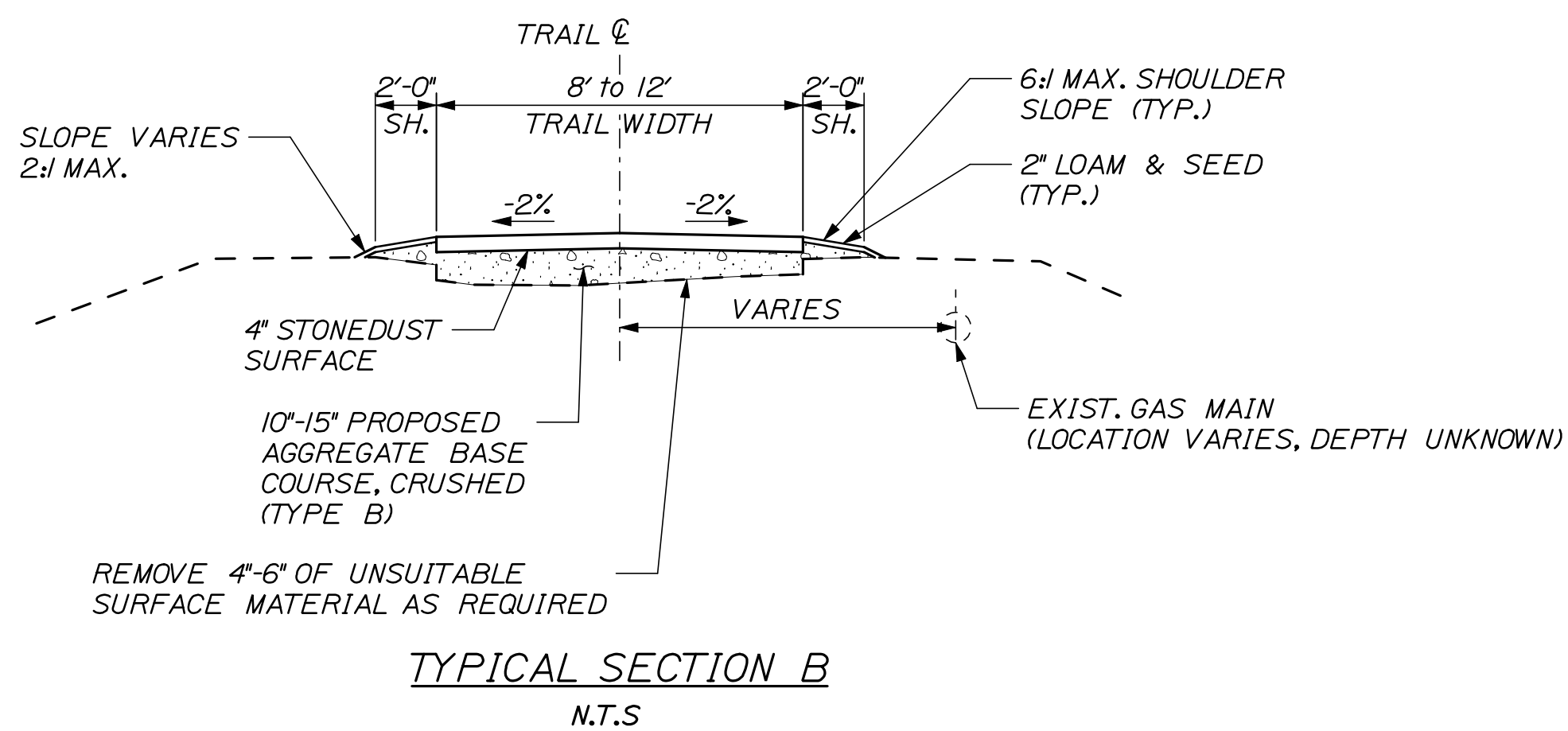
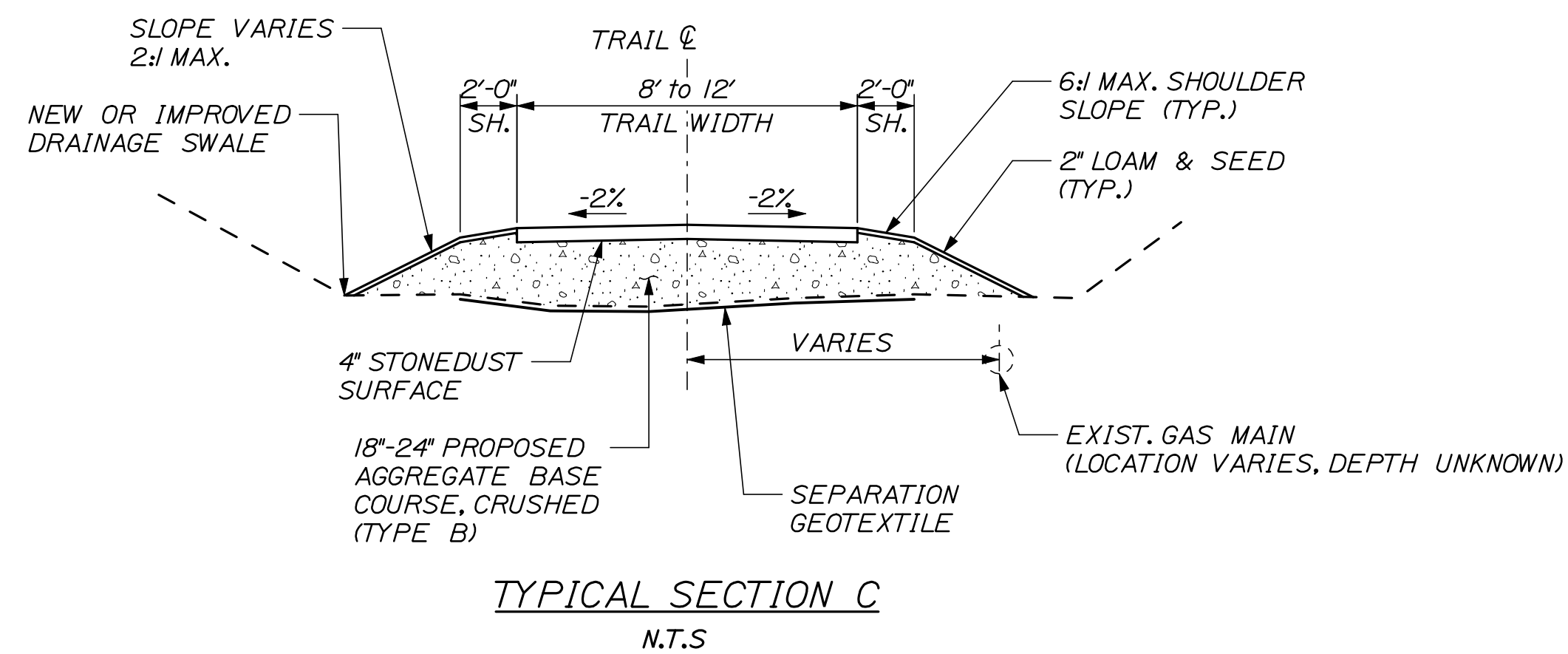
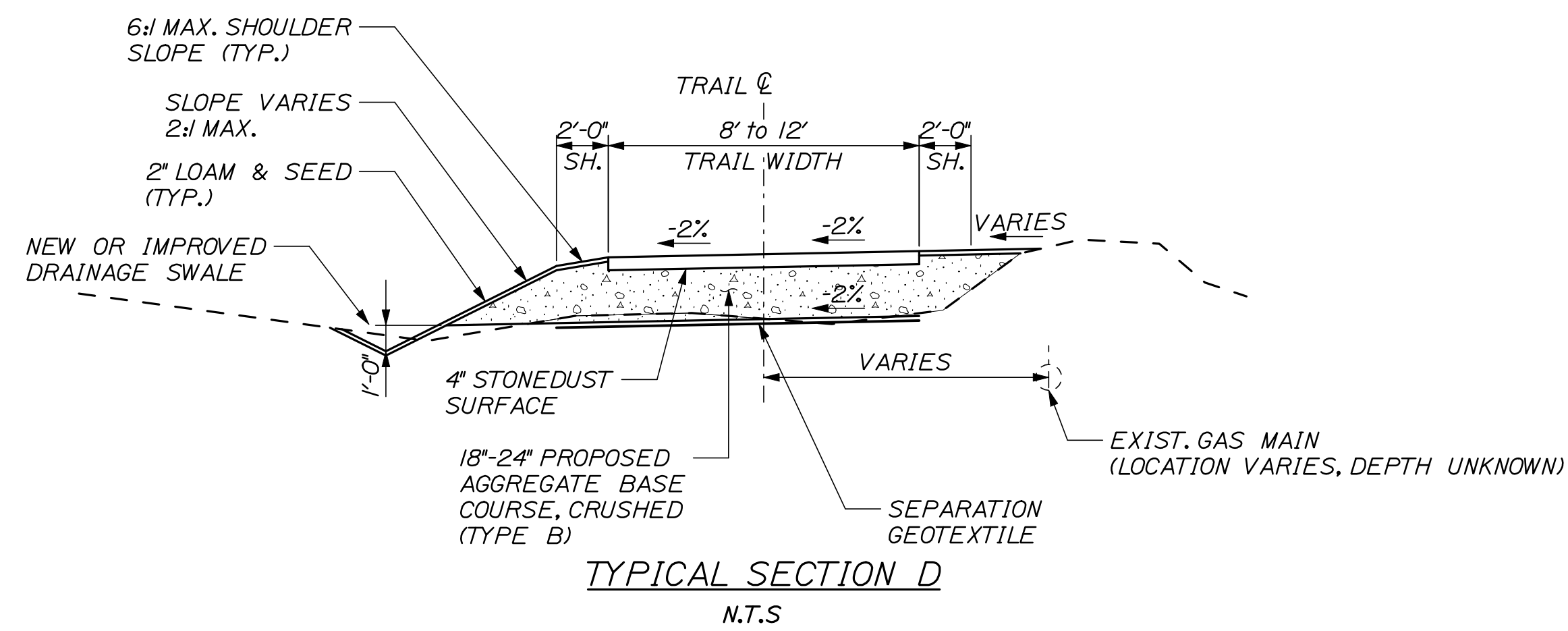
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QTY. AND NOTES

SIGNATURE
6452
P.E. NUMBER
DATE

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

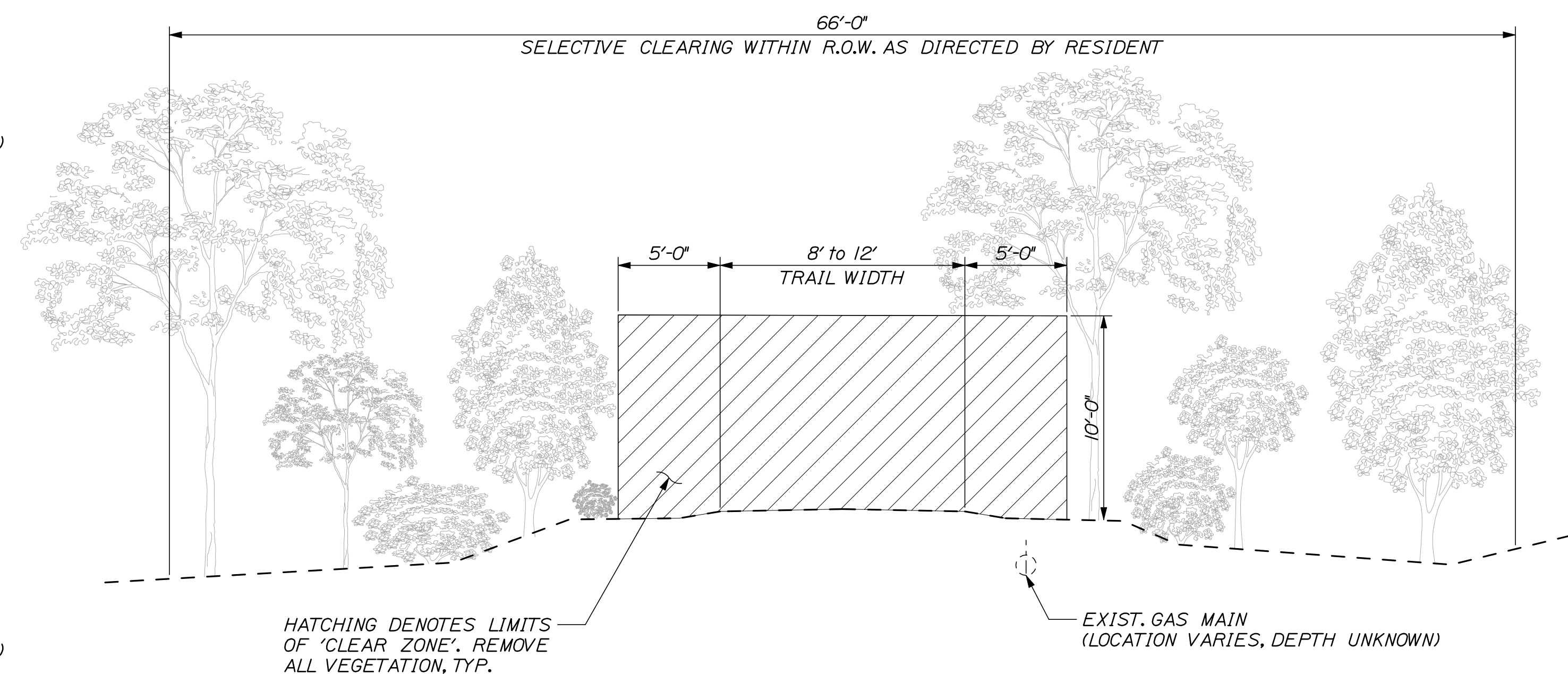
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OF 69



TYPICAL BRIDGE AND ROADWAY APPROACH EMBANKMENTS

NOTES

1. EROSION CONTROL BLANKET SHALL BE INSTALLED ON THE SIDESLOPES OF THE TEMPORARY PRELOAD EMBANKMENTS FOR THE TURNPIKE BRIDGE AND IN SWALES WITH A SLOPE BETWEEN 2 AND 6%.
2. SHOULDERS SHALL BE LOAMED AND SEEDED AFTER PLACEMENT OF THE TRAIL SURFACE.
3. FOR SWALE INVERT ELEVATIONS SEE PROFILE DRAWINGS AND ELEVATION TABLES SHOWN ON PLANS.
4. FOR SIDE SLOPES AT BRIDGE AND ROADWAY APPROACHES SEE CROSS SECTIONS AND GRADING LIMITS SHOWN ON PLANS. OTHERWISE SLOPES ARE 2:1 WHEN HEIGHT OF EMBANKMENT > 5' AND 3:1 WHEN HEIGHT OF EMBANKMENT IS < 5'.
5. FOR TYPICAL SECTIONS C AND D SEPARATION EROSION CONTROL GEOTEXTILE FABRIC SHALL BE USED IN AREAS WHERE TRAIL PASSES THROUGH WET AREAS TO AVOID THE NEED FOR MUCK EXCAVATION. FINAL DETERMINATION OF PLACEMENT LOCATIONS WILL BE DETERMINED BY THE RESIDENT.
6. EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED PRIOR TO TRAIL CONSTRUCTION. PAYMENT FOR WORK SHALL BE UNDER ITEM 203.20.



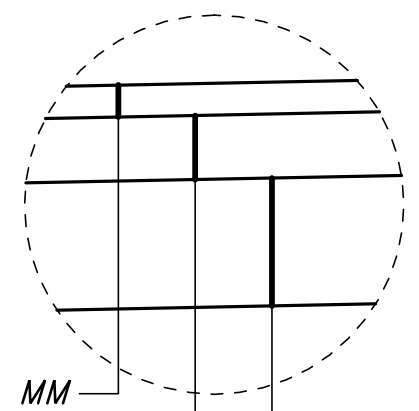
TYPICAL CLEARING LIMITS DETAIL

N.T.S

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LIMBING UP OVERHANGING VEGETATION TO THE HEIGHT INDICATED ON THE DETAIL. PAYMENT SHALL BE UNDER ITEM SELECTIVE CLEARING AND THINNING.

ABBREVIATIONS
SH. = SHOULDER

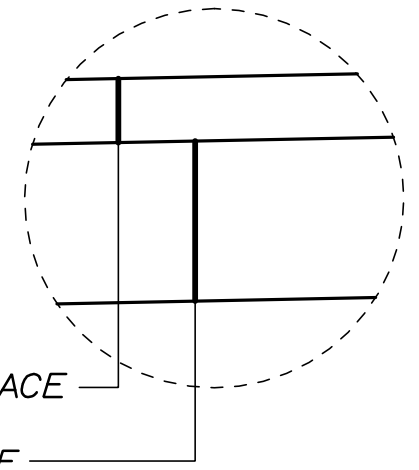


2" HMA - GRADING 9.5 MM -
(SEE TABLE BELOW-LEFT
FOR LIMITS)

4" AGGREGATE BASE
COURSE - CRUSHED
(TYPE B)

8" AGGREGATE SUBBASE-
COURSE - GRAVEL
(TYPE D)

DETAIL A



DETAIL B

	BY	DATE	
DESIGNED	LEM	06/09	
DRAWN	MPC	06/09	SIGNATURE
CHECKED	DGE	06/09	6452
REVISIONS 1	NOTES AND TYP.	08/09	P.E. NUMBER
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
REVISIONS 5			
REVISIONS 6			

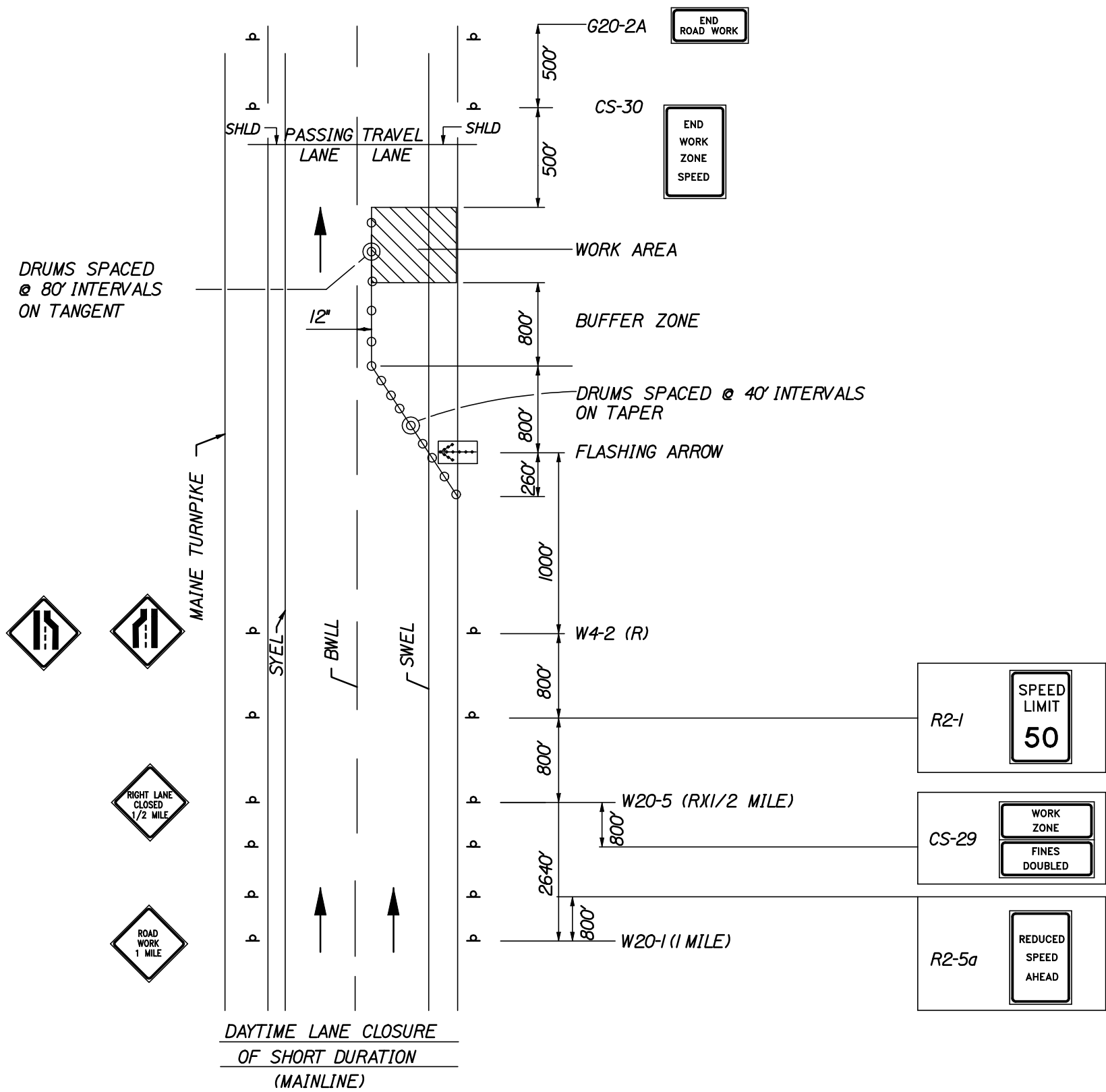
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TYPICAL SECTIONS

SHEET NUMBER

3

OF 69



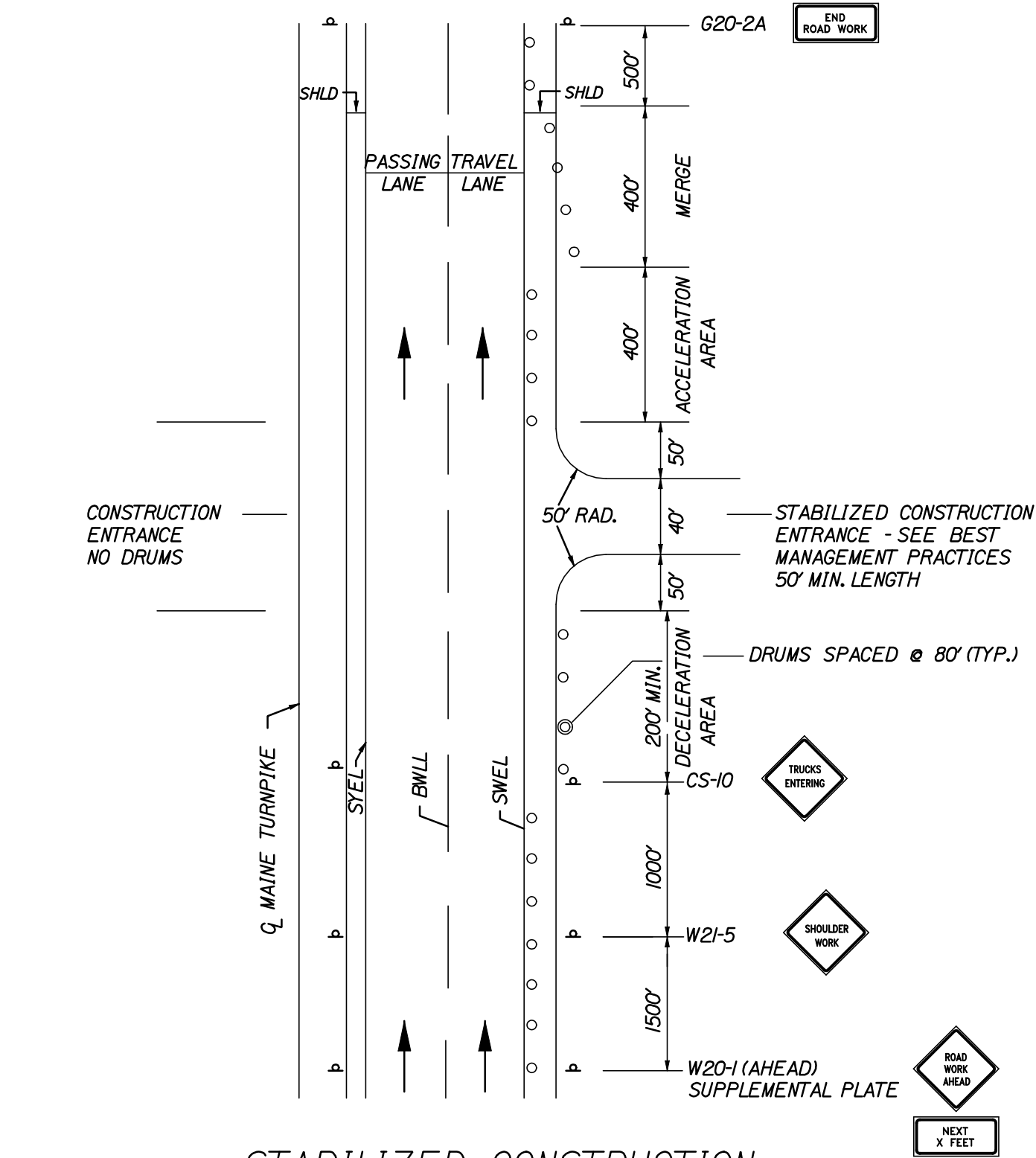
SINGLE LANE CLOSURE SIGNS ON EASELS

SINGLE LANE CLOSURE NOTES:

1. W4-2 SHALL BE THE LATEST VERSION PER MUTCD IF SIGNS ARE NEW.
2. PASSING LANE CLOSURES ARE SIMILAR TO TRAVEL LANE CLOSURES EXCEPT THAT SIGNS W20-5 AND W4-2 ARE FOR LEFT LANE CLOSURES.
3. CS-29 IS A COMBINATION OF (1) CS-31 AND (1) CS-15 ON 1 EASEL.

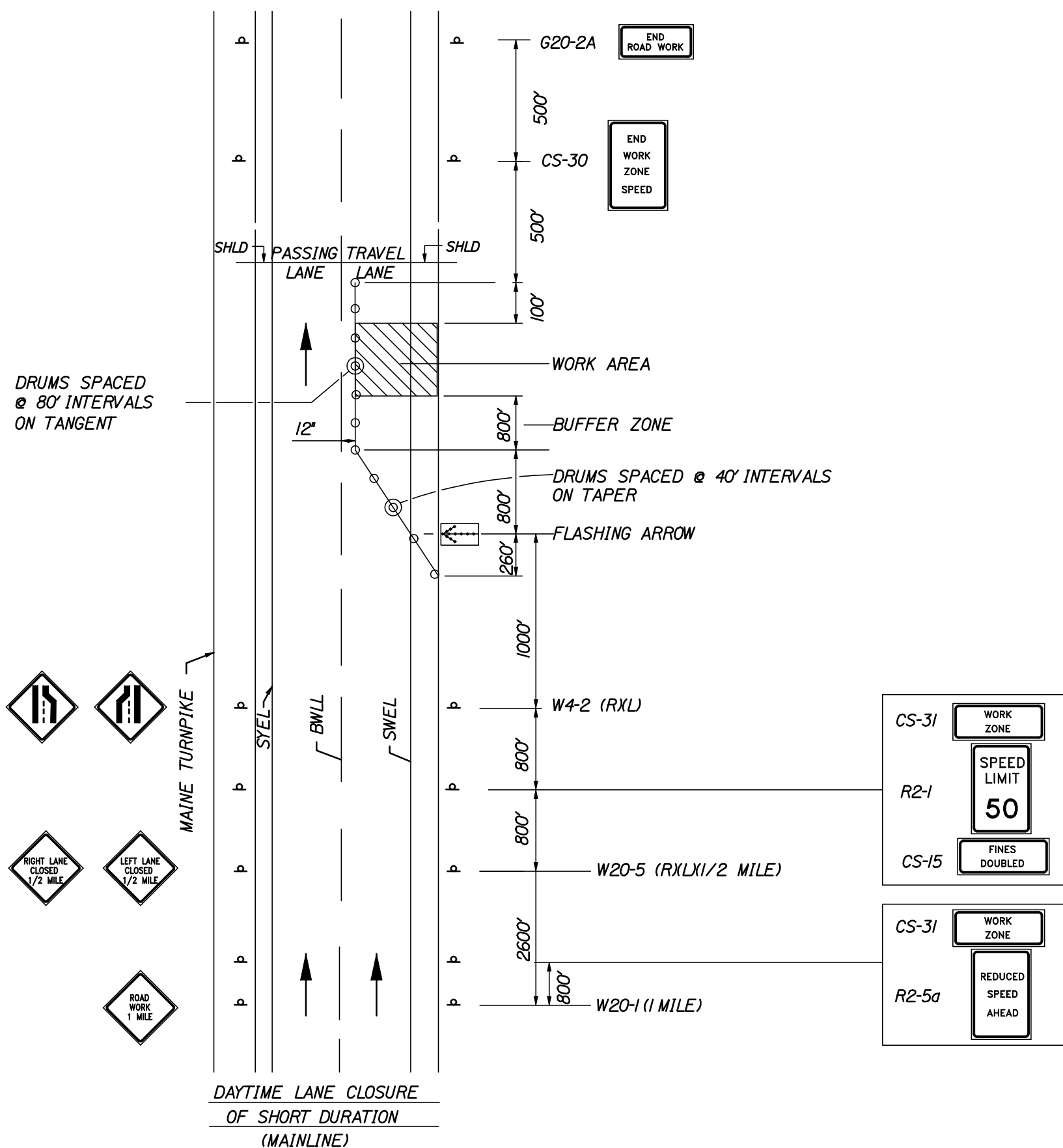
GENERAL NOTES:

1. FOR SIGN DETAILS, SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.
2. *TRUCKS ENTERING* SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.

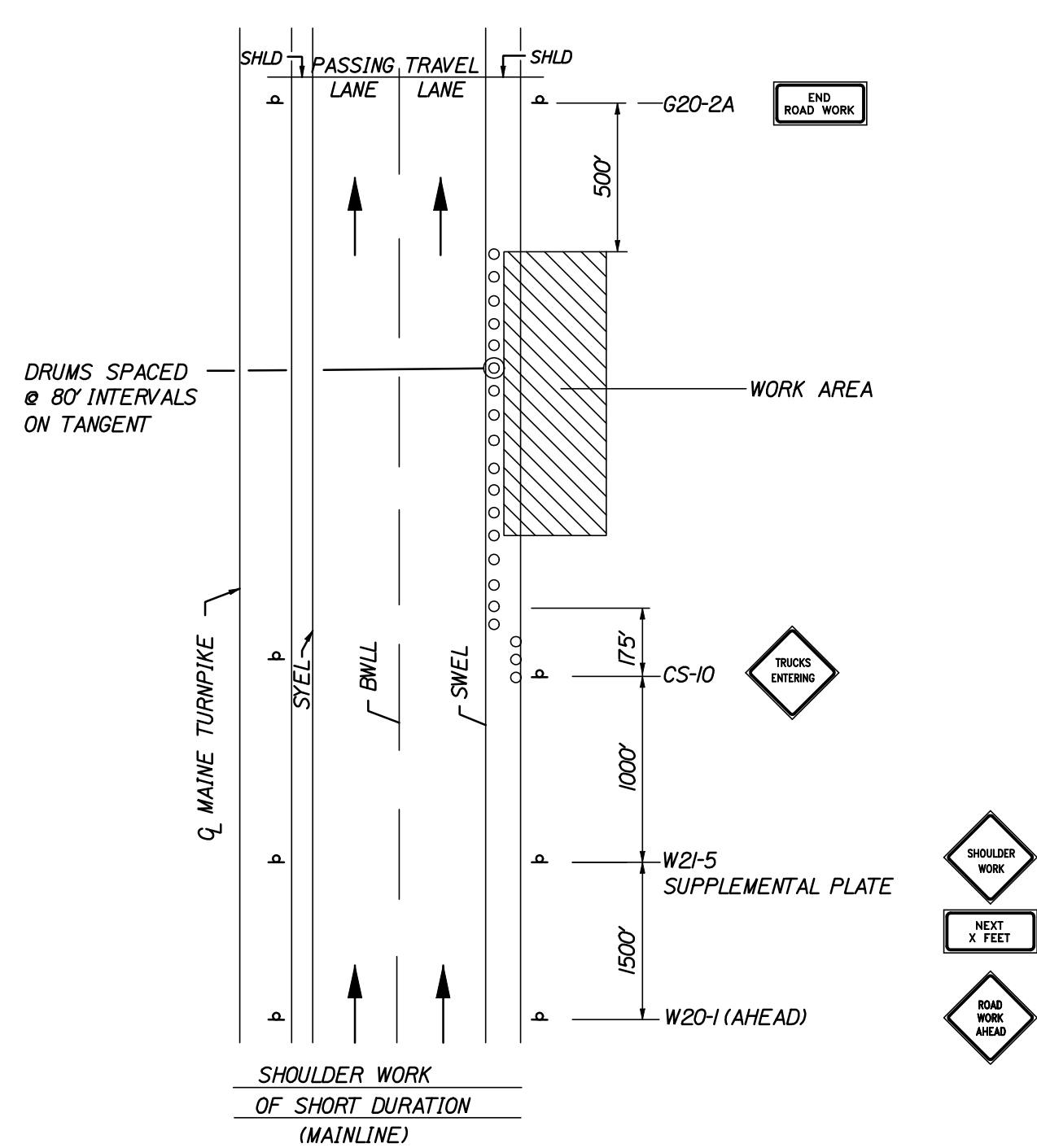


STABILIZED CONSTRUCTION ENTRANCE

1. SIGN G20-2A IS NOT REQUIRED IF ENTRANCE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.



SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP



SHOULDER WORK

1. THE W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.

ABBREVIATIONS FOR ALL M.O.T. PLANS

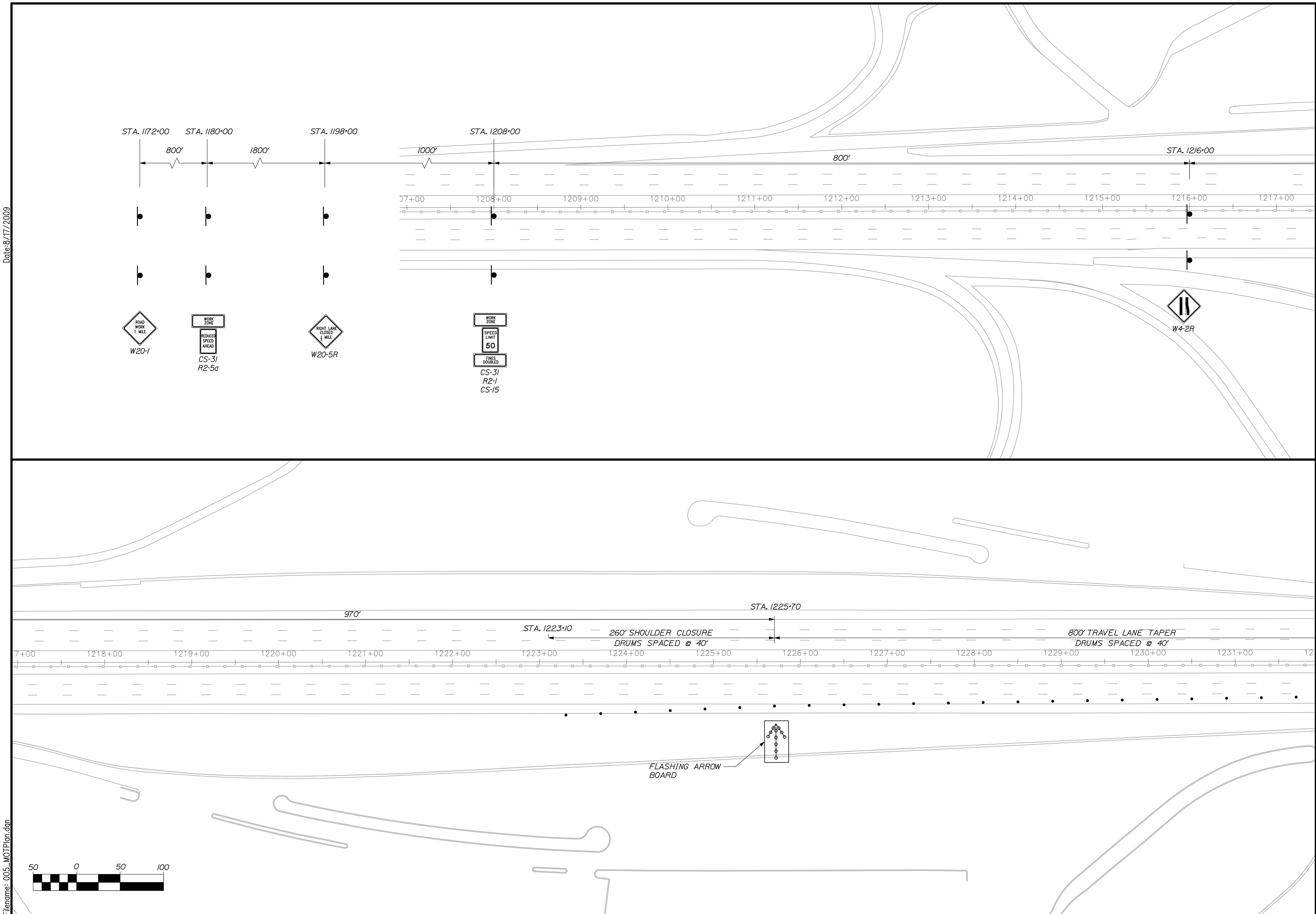
BWLL = BROKEN WHITE LANE LINE
SWEL = SOLID WHITE EDGE LINE
SYEL = SOLID YELLOW EDGE LINE
TBWLL = TEMPORARY BROKEN WHITE LANE LINE
TSWEL = TEMPORARY SOLID WHITE EDGE LINE
TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE AUTHORITY'S AUTHORIZED REPRESENTATIVE.
4. SEE ATTACHED MAINTENANCE OF TRAFFIC CONTROL PLANS FOR DETAILS ON LANE CLOSURES FOR NORTHBOUND TRAFFIC. SOUTHBOUND CLOSURES WILL BE DONE PER THE DETAILS ON THIS SHEET.

Date: 8/17/2009

Filename: 005_MOTPlan.dgn



HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE	SIGNATURE
LTD	LTD	11/08	
MPC	MPC	11/08	
DCE	DCE	11/08	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

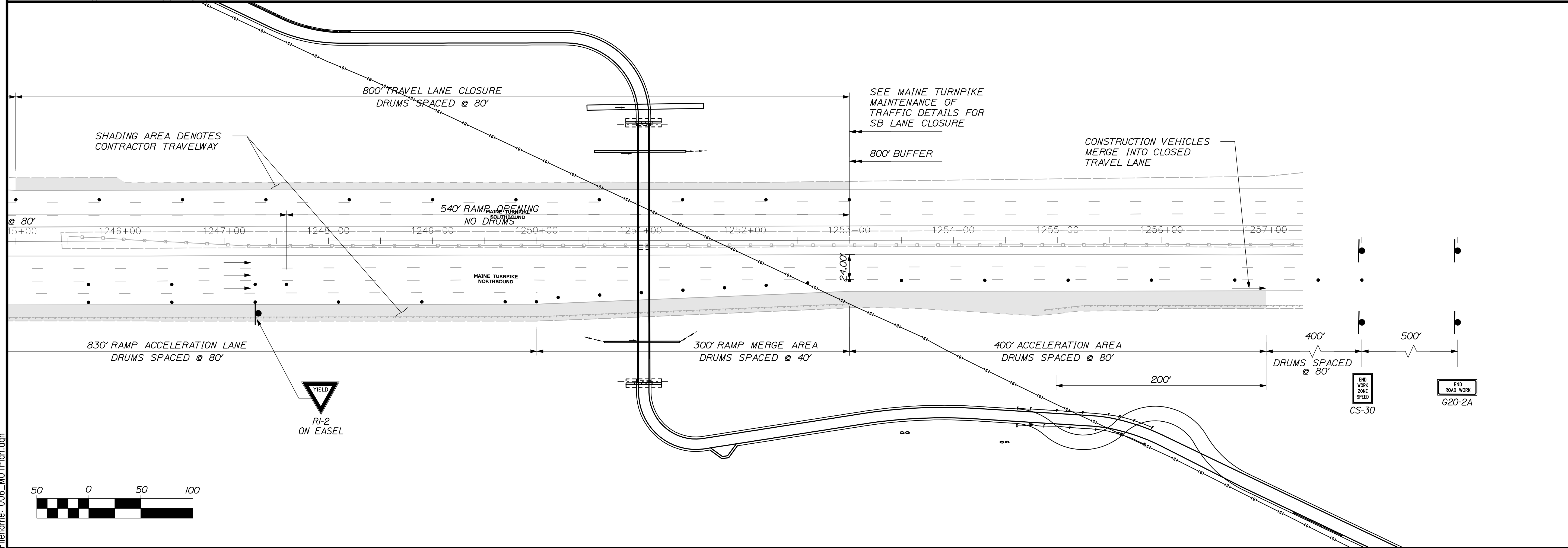
6452
P.E. NUMBER

DATE

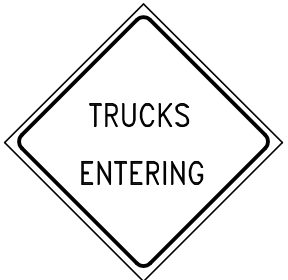
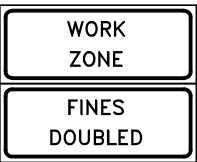

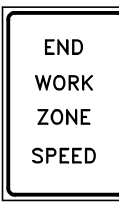

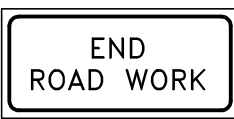
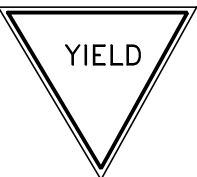
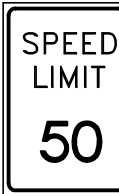
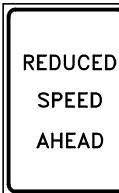
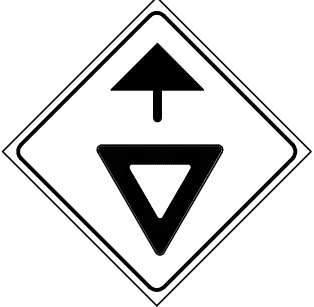



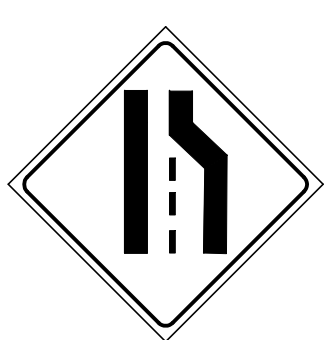





EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDEFORD, MAINE
MAINE TURNPIKE - TRAFFIC MAINTENANCE I









SHEET NUMBER
5
OF 69

Filename: 006_MOTPlan.dgn



SHEET NUMBER	6 OF 69	EASTERN TRAIL MANAGEMENT DISTRICT MULTI-USE TRAIL CONSTRUCTION KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE						
		MAINE TURNPIKE - TRAFFIC MAINTENANCE II						
		DESIGNED		BY		DATE		
		DRAWN	MFC			11/08		
		CHECKED	DCE			11/08		
		REVISIONS 1						6452
		REVISIONS 2						P.E. NUMBER
		REVISIONS 3						
REVISIONS 4								
REVISIONS 5					DATE			
REVISIONS 6								
							2 THOMAS DRIVE WESTBROOK, ME 04092 (207) 774-5155	

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND BORDER			
CS-10	48"	48"		7" 7"	6"		1	ORANGE	BLACK		16.00 (16.00)	
CS-31	48"	24"		6" 6"	4.5"		8	ORANGE			8.00 (64.00)	
CS-15	48"	24"		6" 6"	4.5"		4	WHITE			8.00 (32.00)	
CS-30	36"	48"		6" 6" 6" 6"	4.5" 4.5" 4.5"		4	WHITE			12.00 (48.00)	
G20-2A	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			4	ORANGE	BLACK		8.00 (32.00)	
R1-2	36"	36"	36"				1	SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			4.00 (4.00)	
R2-1	48"	60"					4				20.00 (80.00)	
R2-5a	48"	60"					4				20.00 (80.00)	
W3-2a	48"	48"					1				16.00 (16.00)	
W4-1R	48"	48"					1				16.00 (16.00)	
W4-2R	48"	48"					4				16.00 (64.00)	

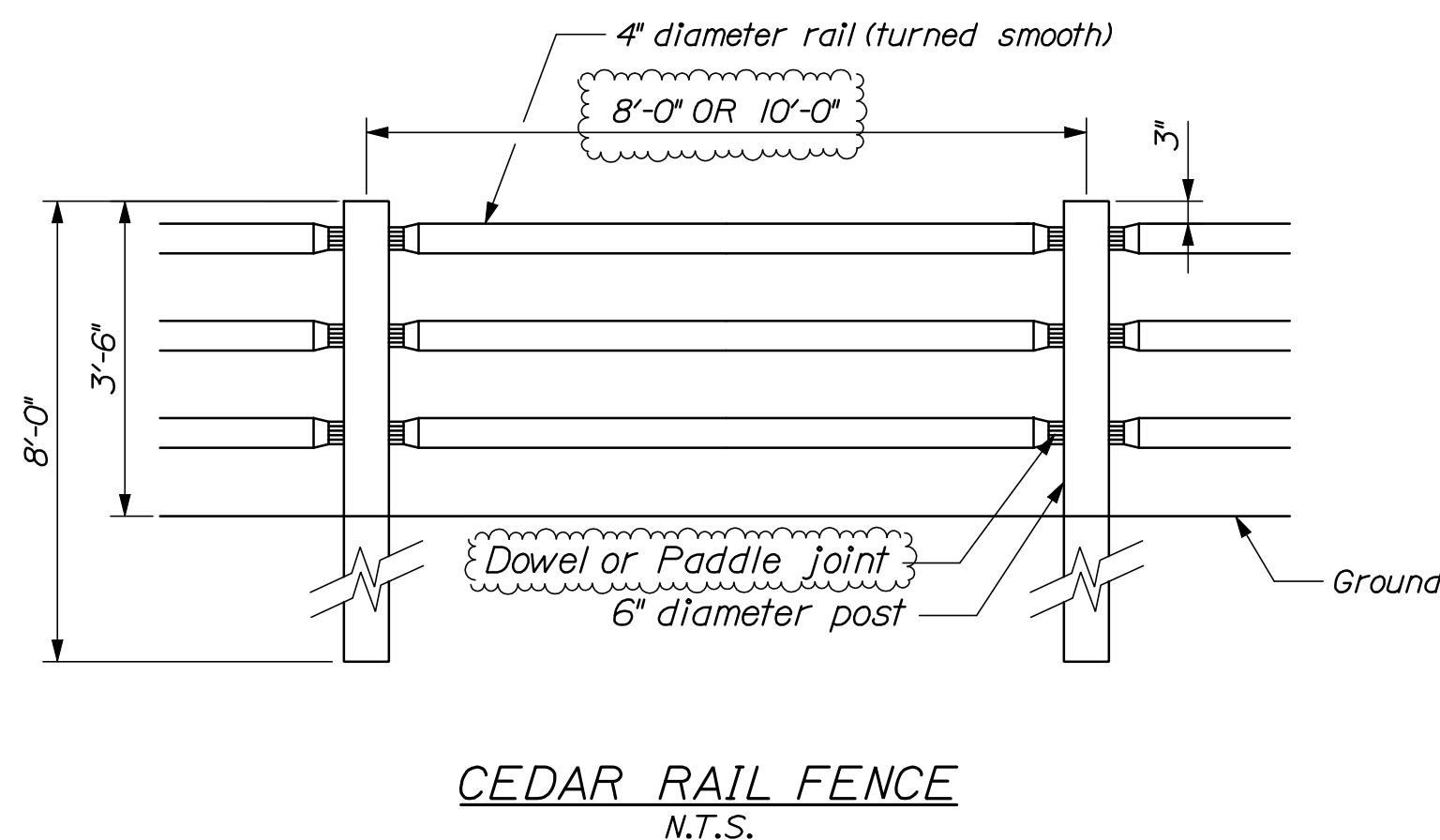
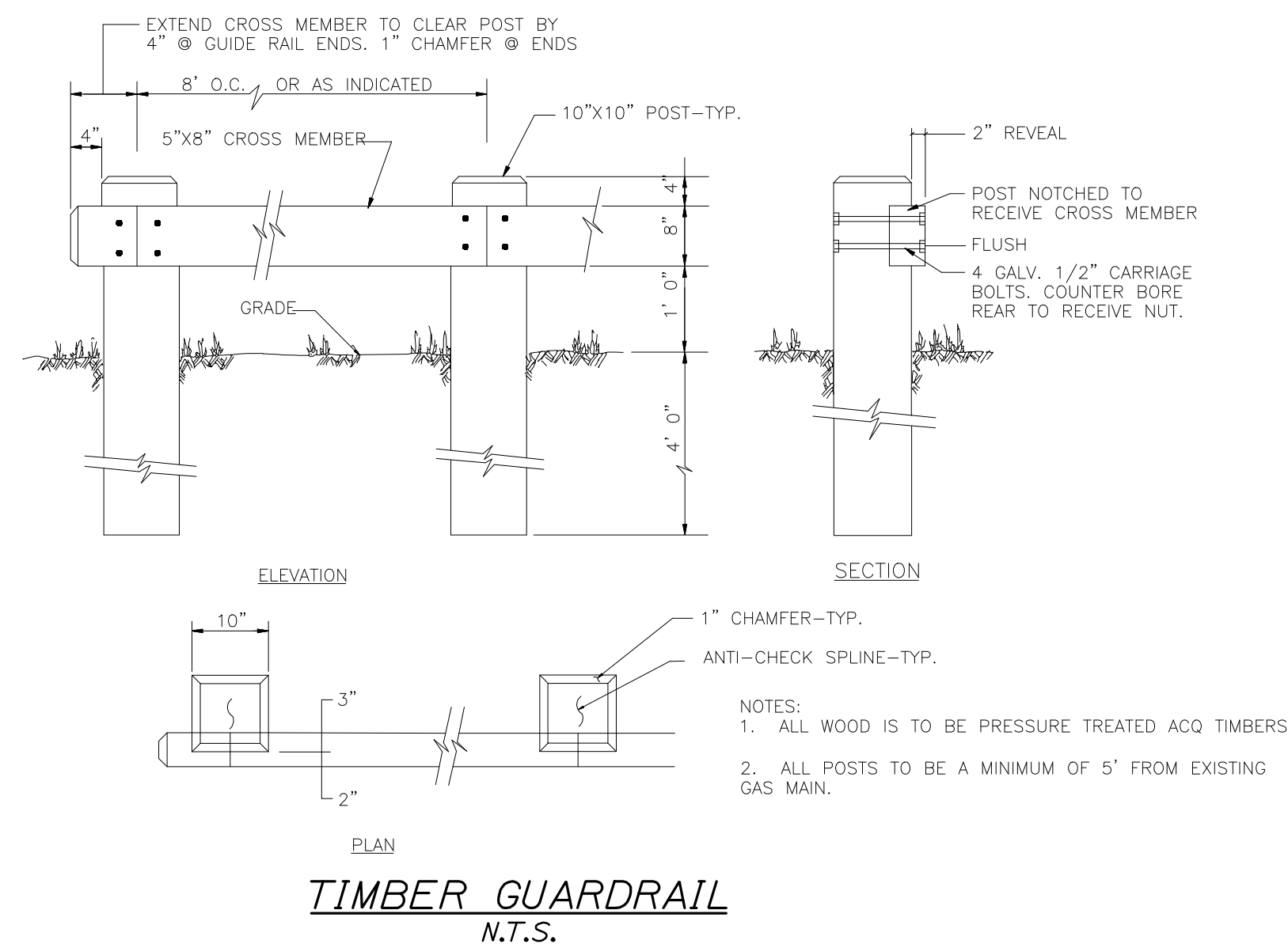
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND BORDER			
W20-1 (AHEAD) (1 MILE)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			2 4	ORANGE	BLACK		16.00 (32.00) 16.00 (64.00)	
W20-5R (1/2 MILE)	48"	48"					4				16.00 (64.00)	
W21-5	48"	48"					4				16.00 (64.00)	

Date:5/19/2009

Filename: ...\\CAD\\008_BoringLogs.dgn

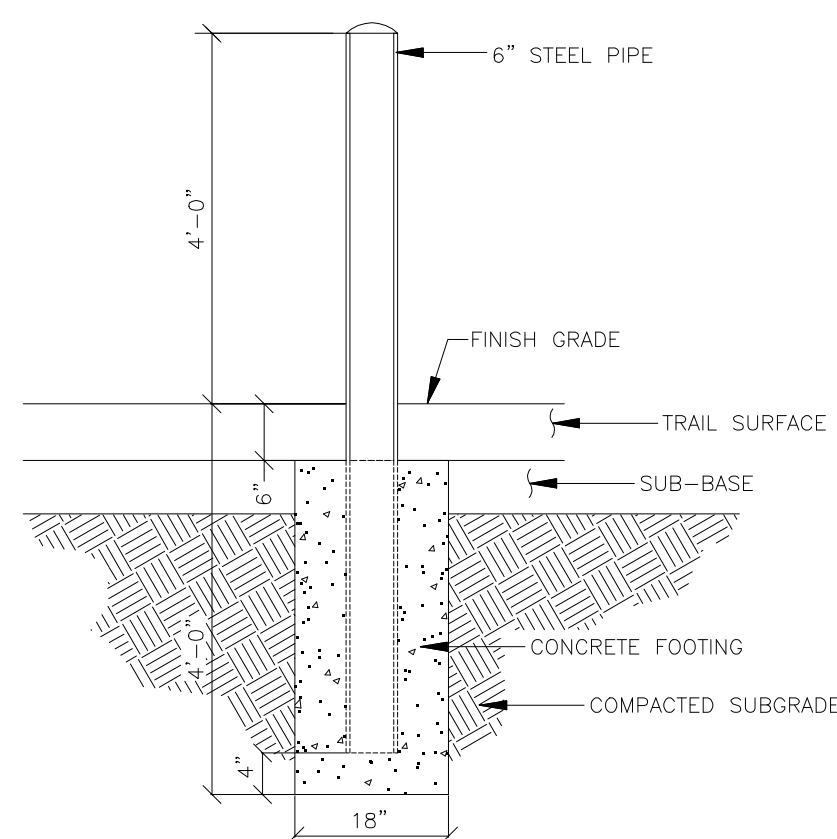
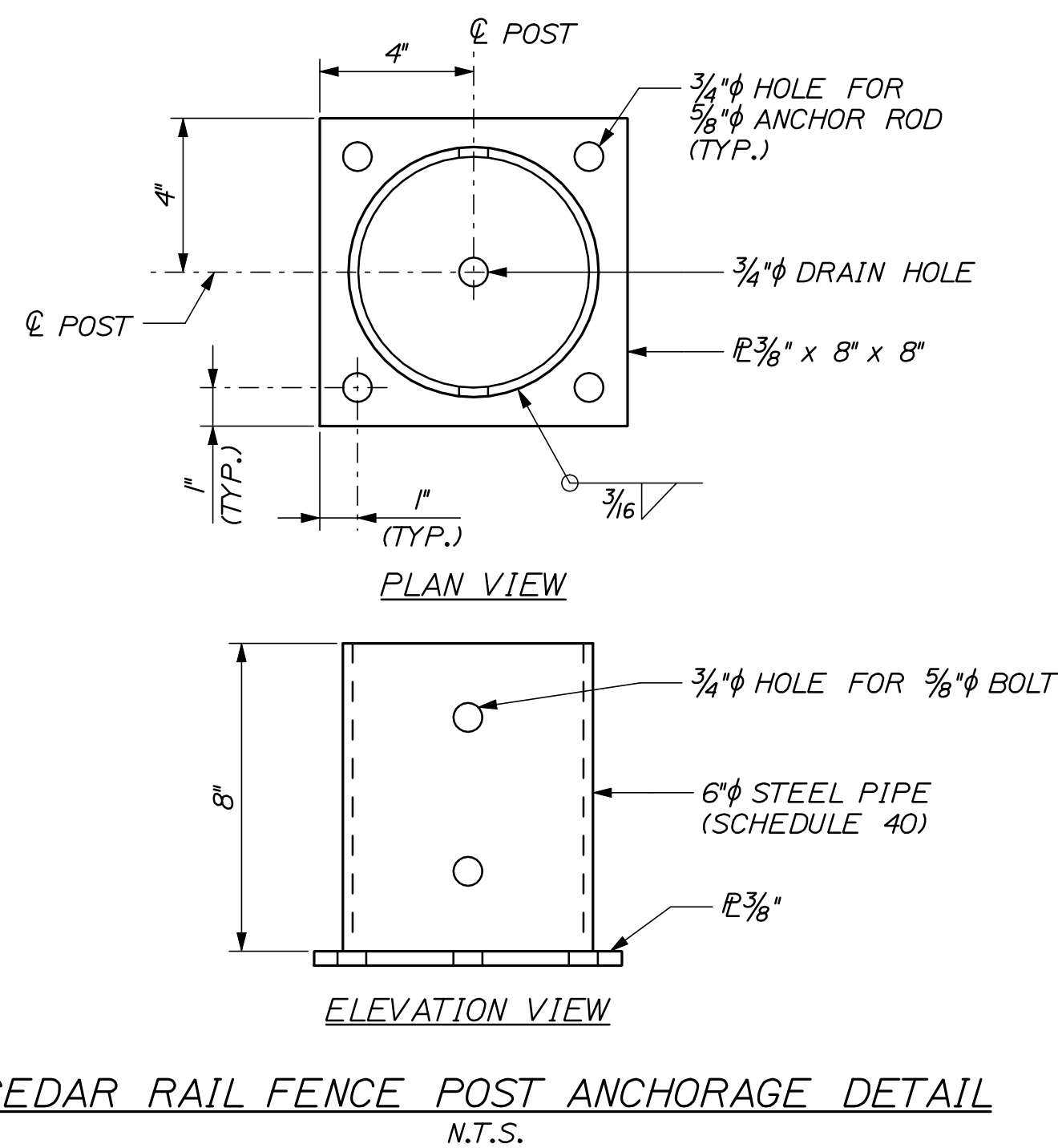
SERAGO TECHNICS, INC.		TEST BORING REPORT										BORING NO. B1	
PROJECT: EASTERN TRAIL PROJECT - MAINE TURNPIKE SECTION		STI JOB NO. 08426										Page 1 of 3	
LOCATION: MAINE TURNPIKE CROSSING @ KENNEBUNK REST AREA		PROJECT MGR. A. RECKER											
CLIENT: HNTB CORPORATION		FIELD REP. K. RECKER											
CONTRACTOR: MAINE TEST BORING, INC.		DATE STARTED 5/19/2009											
DRILLER: J. SCHAEFER		DATE FINISHED 5/19/2009											
Elevation		Datum		Boring Location		Sta. From STA. 1292+50.98' LT.		To		L.T.			
Item		Casing		Sampler		Core Barrel		Make & Model		Hammer Type		Drilling Mud	
Type		HSA		SS		ATV		Geoprobe		Sch. Post		Schn. Post	
Inside Diameter (in.)		2.5		1.75		1.75		1.75		1.75		1.75	
Hammer Weight (lb.)		140		140		140		140		140		140	
Hammer Fall (in.)		30		30		30		30		30		30	
Depth (ft.)		Sampler		Sample		Sample		Well		Stratum		USCS	
Blows per ft.		No. & Recovery		Depth (ft.)		Diagram		Change (ft.)		Symbol		Description	
0		1		51		6.0						SM	
1		1		51		6.0						SM	
2		1		51		6.0						SM	
3		1		51		6.0						SM	
4		1		51		6.0						SM	
5		1		51		6.0						SM	
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168													

SERBAGO TECHNIQS, INC.		TEST BORING REPORT										BORING NO. B3	
Page 1 of 3													
PROJECT: EASTERN TRAIL PROJECT - MAINE TURNPIKE SECTION													
LOCATION: LIMERICK ROAD, ARUNDEL TO ROUTE 35, KENNEBUNK, MAINE													
CLIENT: JINTX CORPORATION													
CONTRACTOR: MAINE TEST BORINGS, INC.													
DRILLER: T. SCHAEFER													
STATION: STA. 4633439.27' RT.													
Elevation: 10.15													
Type: HSA													
Inside Diameter (in.): 2.2													
Hammer Weight (lb.): 140													
Hammer Fall (in.): 30													
Depth (ft.): 30													
Sample No. & Recovery (in.): 1													
Sample Depth (ft.): 1.0													
Well Diagram: 1.0													
Stratum Change (ft.): 1.0													
USCS Symbol: SM													
Visual-Manual Identification & Description: Loose, brown well-sorted SAND with gravel (SM), npi = 1.0 in. - 1.0 in.													
Gravel: 100%													
Sand: 0%													
Field Test: 1.0													
Summary: 1.0													
Water Level Data: 1.0													
Date: 8/23/2008													
Time: 13:45													
Elapsed Time (hr.): 1.0													
Bottom of Casing: 1.0													
Bottom of Hole: 1.0													
Water: 1.0													
O: 1.0													
T: 1.0													
U: 1.0													
S: 1.0													
G: 1.0													
Field Tests: 1.0													
Distance: 1.0													
R: 1.0													
S: 1.0													
B: 1.0													
V: 1.0													
H: 1.0													
M: 1.0													
L: 1.0													
N: 1.0													
P: 1.0													
Q: 1.0													
R: 1.0													
S: 1.0													
T: 1.0													
U: 1.0													
V: 1.0													
W: 1.0													
X: 1.0													
Y: 1.0													
Z: 1.0													
AA: 1.0													
BB: 1.0													
CC: 1.0													
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UU: 1.0													
VV: 1.0													
WW: 1.0													
XX: 1.0													
YY: 1.0													
ZZ: 1.0													
AAA: 1.0													
BBB: 1.0													
CCC: 1.0													
DDD: 1.0													
EEE: 1.0													
FFF: 1.0													
GGG: 1.0													
HHH: 1.0													
III: 1.0													
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MMM: 1.0													
NNN: 1.0													
OOO: 1.0													
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RRR: 1.0													
SSS: 1.0													
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VVV: 1.0													
WWW: 1.0													
XXX: 1.0													
YYY: 1.0													
ZZZ: 1.0													
AAAA: 1.0													
BBBB: 1.0													
CCCC: 1.0													
DDDD: 1.0													
EEEE: 1.0													
FFFF: 1.0													
GGGG: 1.0													
HHHH: 1.0													
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JJJJ: 1.0													
KKKK: 1.0													
LLLL: 1.0													
MMMM: 1.0													
NNNN: 1.0													
OOOO: 1.0													
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RRRR: 1.0													
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NOTES:

1. FENCE SHALL BE INSTALLED IN THE SHOULDER WHERE NOTED ON PLANS OR WHERE DIRECTED BY THE RESIDENT. USE OF FENCE IS INTENDED FOR PROTECTION OF SLOPES 2:1 OR GREATER AND HIGHER 5' IN HEIGHT AND TO RESTRICT ACCESS WHERE NECESSARY.
2. ALL WOOD IS TO BE WHITE CEDAR.

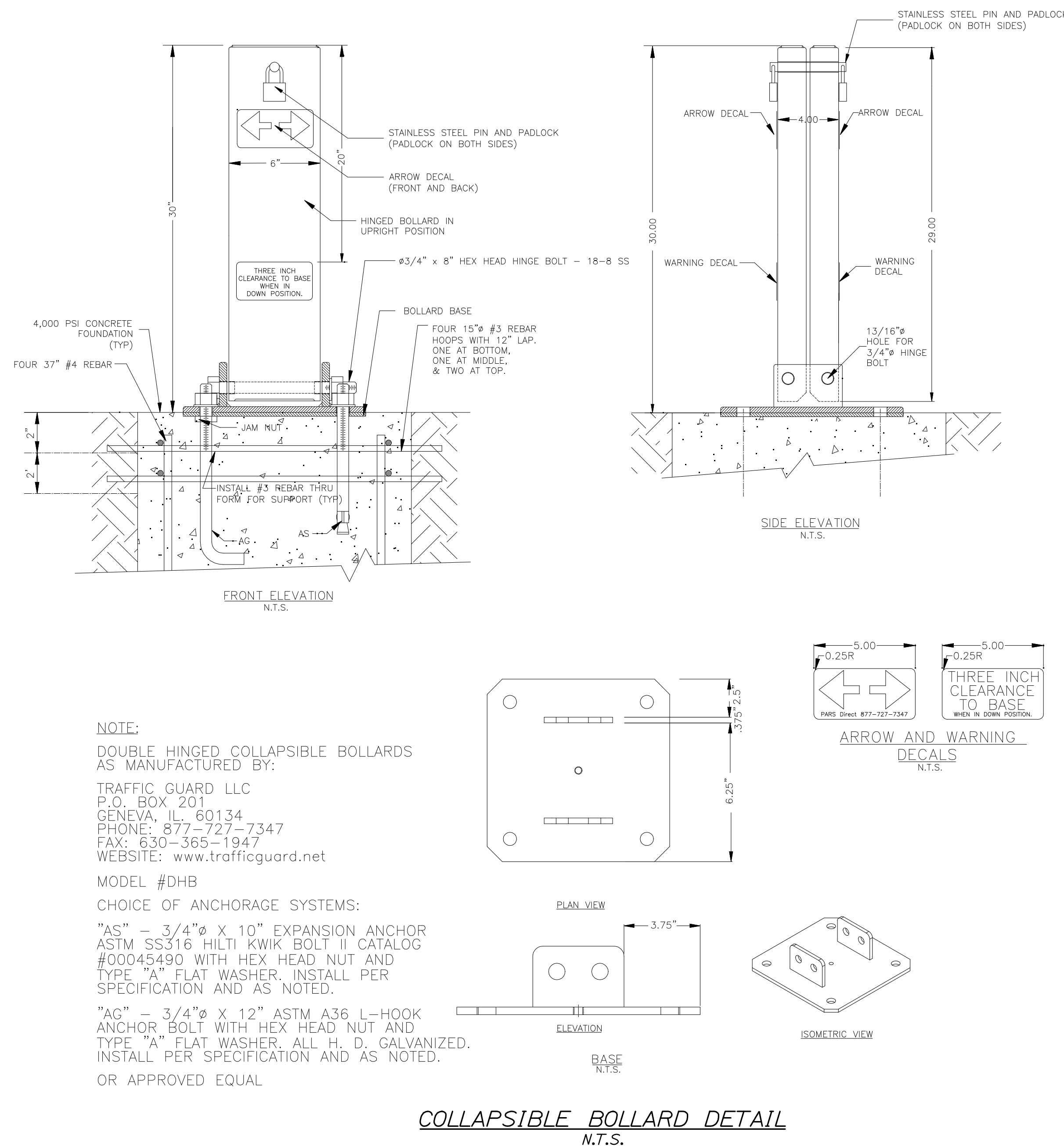


FIXED STEEL BOLLARD
NOTE: N.T.S.

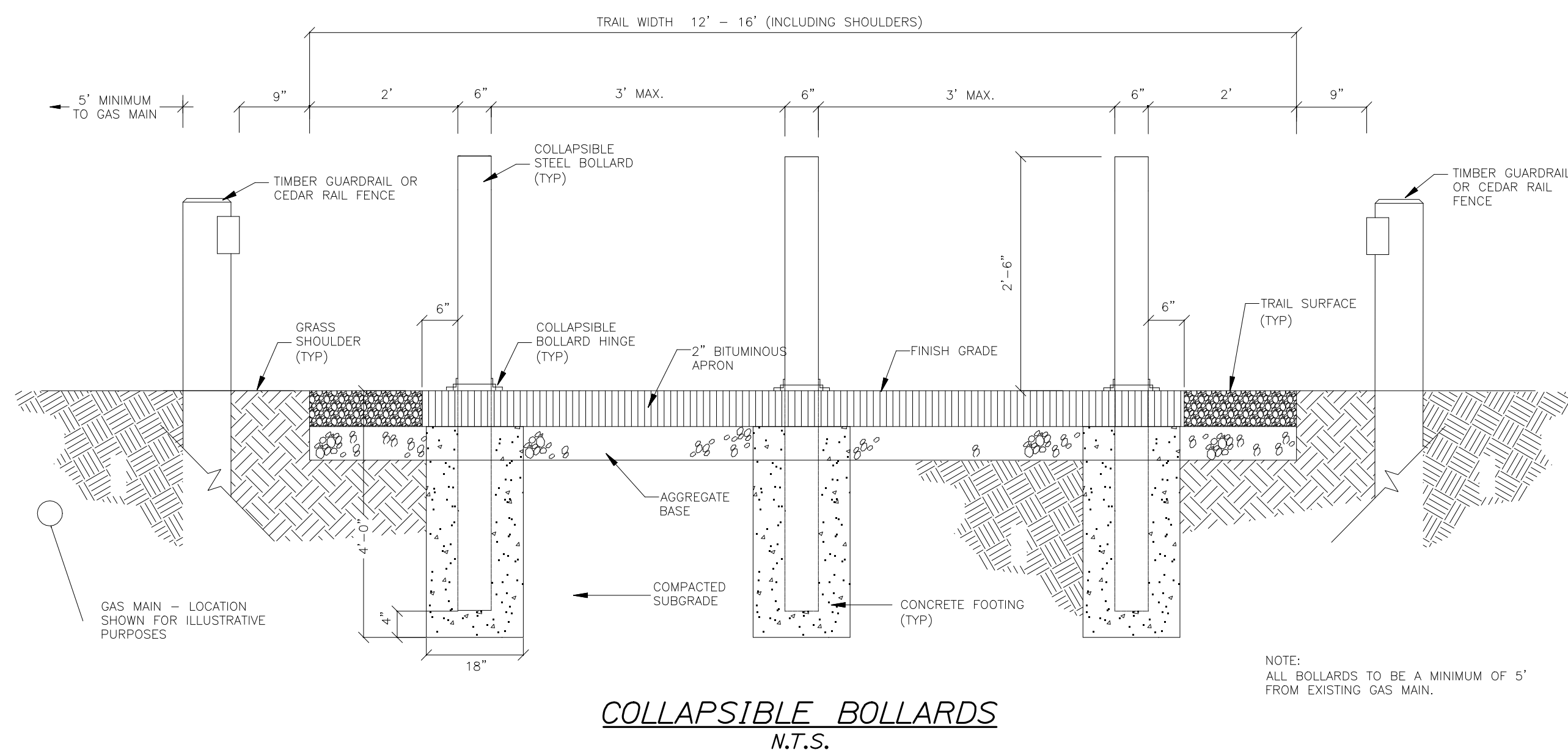
NOTE: *M.T.S.*
FIXED STEEL BOLLARD
INSTALL PER MANUFACTURERS SPECIFICATIONS

TRAFFIC GUARD, LLC
P.O. BOX 201
GENEVA, IL 60134
PHONE: 877-727-7347
FAX: 630-365-1947
WEBSITE: www.trafficguard.net

OR EQUAL



COLLAPSIBLE BOLLARD DETAIL
N.T.S.



	BY	DATE
DESIGNED	LMC	06/09
DRAWN	WPC	06/09
CHECKED	DGE	06/09
REVISIONS 1	CEDAR FENCE DTL.	08/09
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		
SIGNATURE		6452
P.E. NUMBER		
DATE		

EASTERN TRAIL MANAGEMENT DISTRICT MULTI-USE TRAIL CONSTRUCTION KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

DETAILS

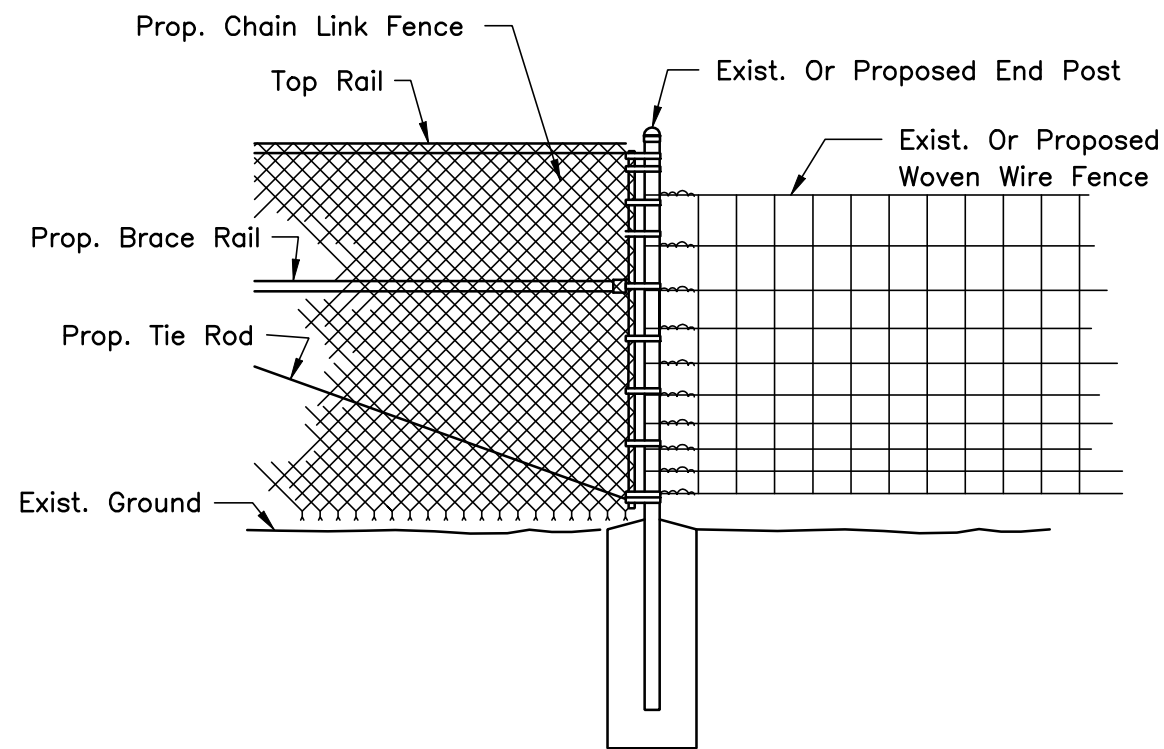
SHEET NUMBER

10

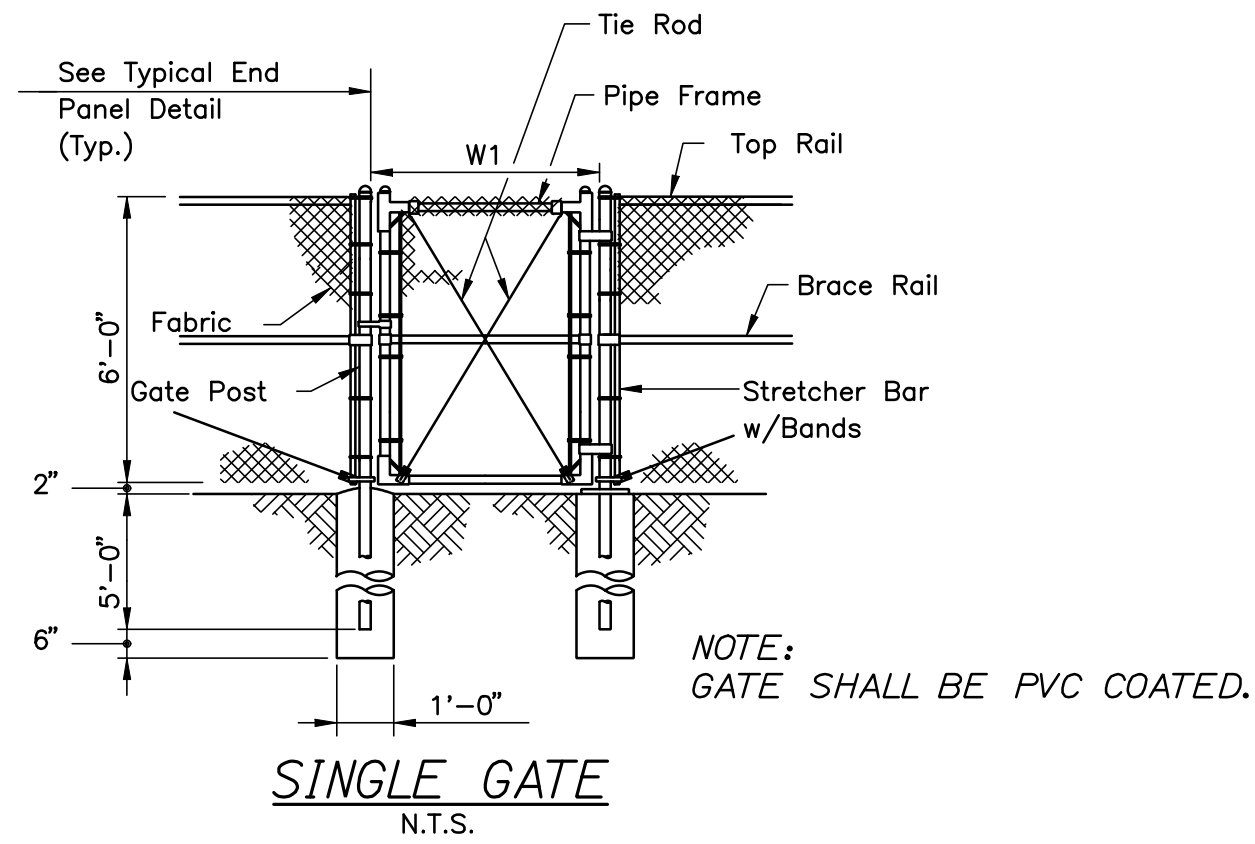
OF 69

Date:8/17/2009

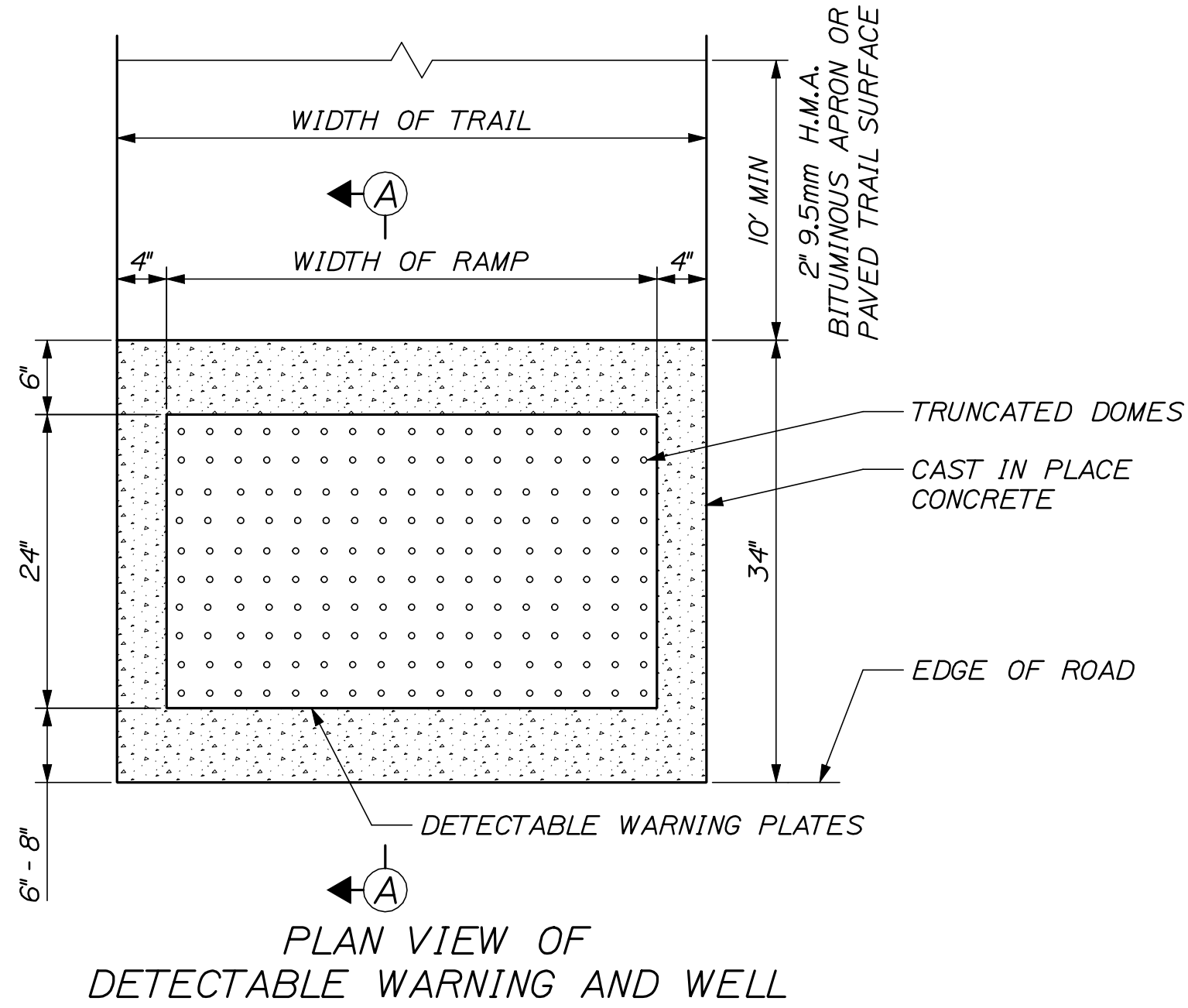
Filename: 011_Details 2 - Trail Kiosk - DetailSheet.dgn



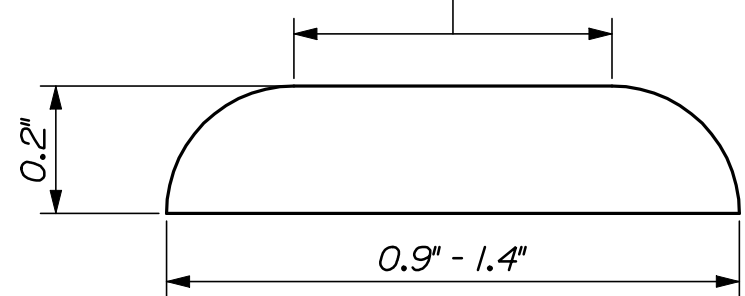
METHOD OF ATTACHING CHAIN LINK FENCE TO WOVEN WIRE FENCE
N.T.S.



Gate Width		Gate Post
W1	W2	O.D.
to 6'	to 12'	3 "
6' to 12'	12' to 24'	4 "
12' to 18'	24' to 36'	6 "

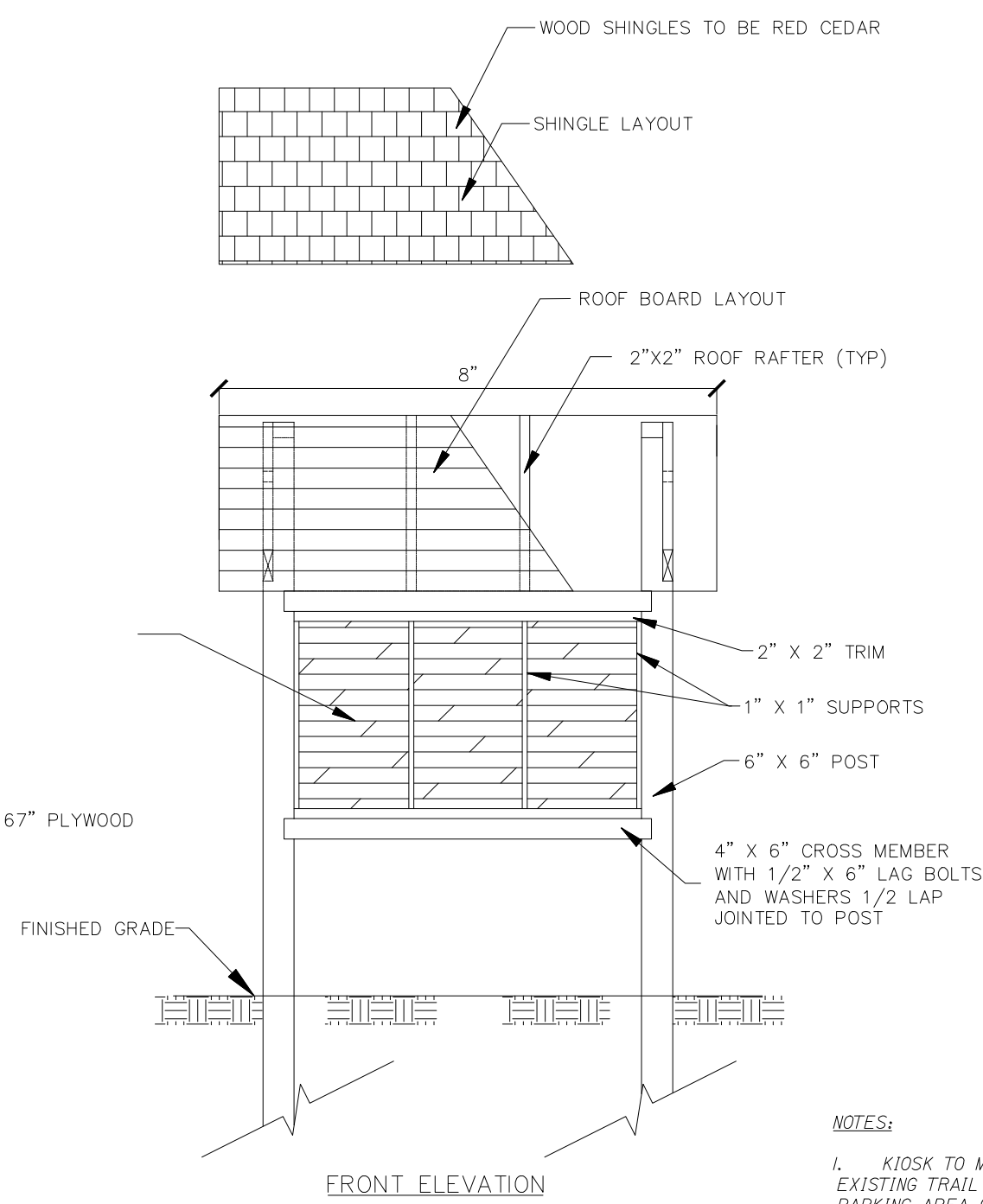
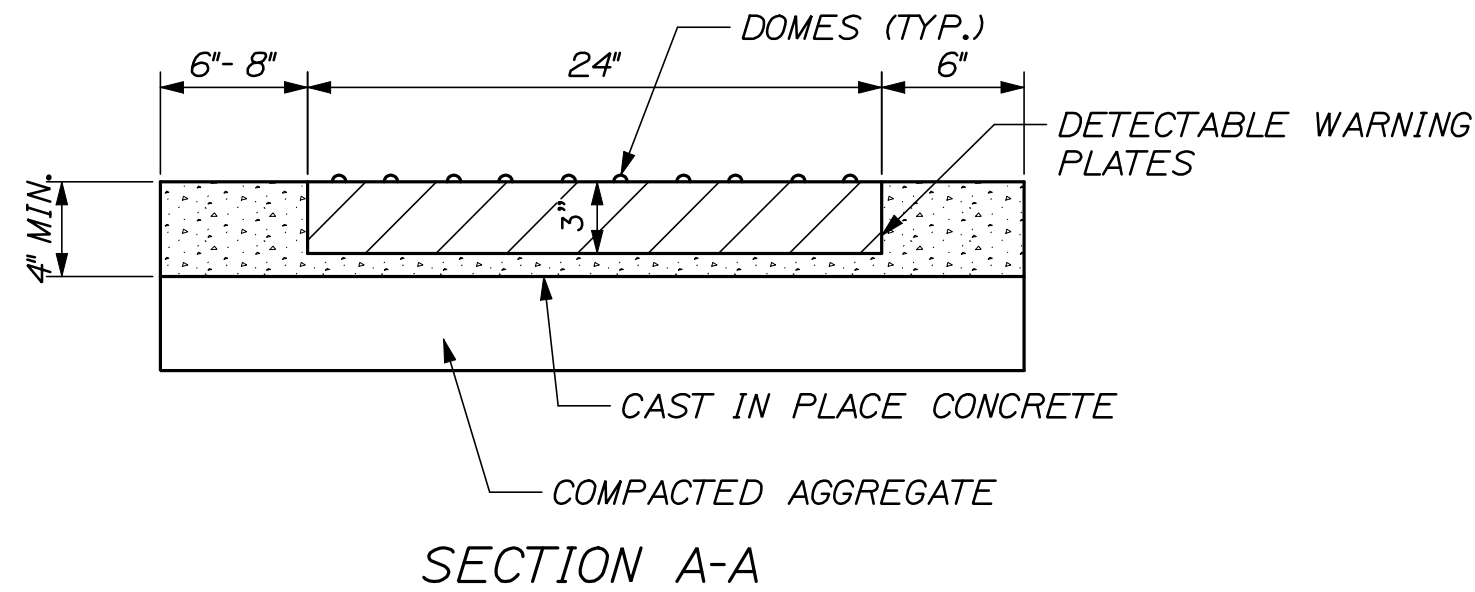


THE TOP DIAMETER OF THE TRUNCATED DOMES SHALL BE 50% TO 65% OF THE BASE DIAMETER



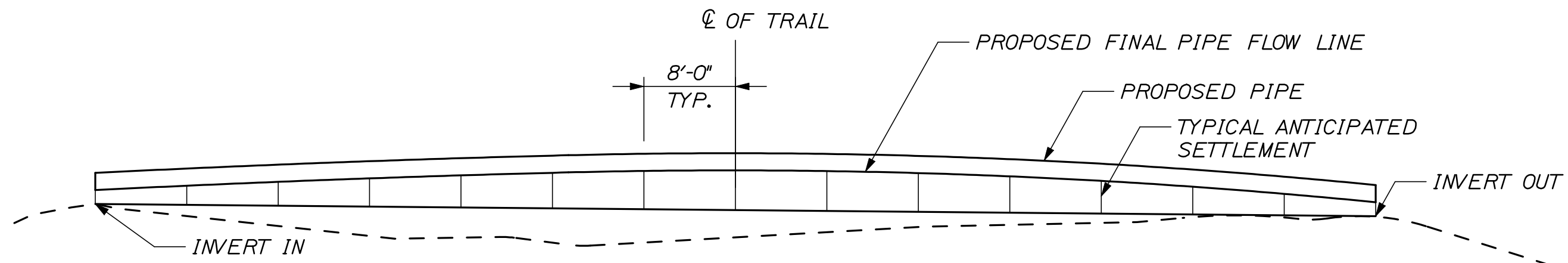
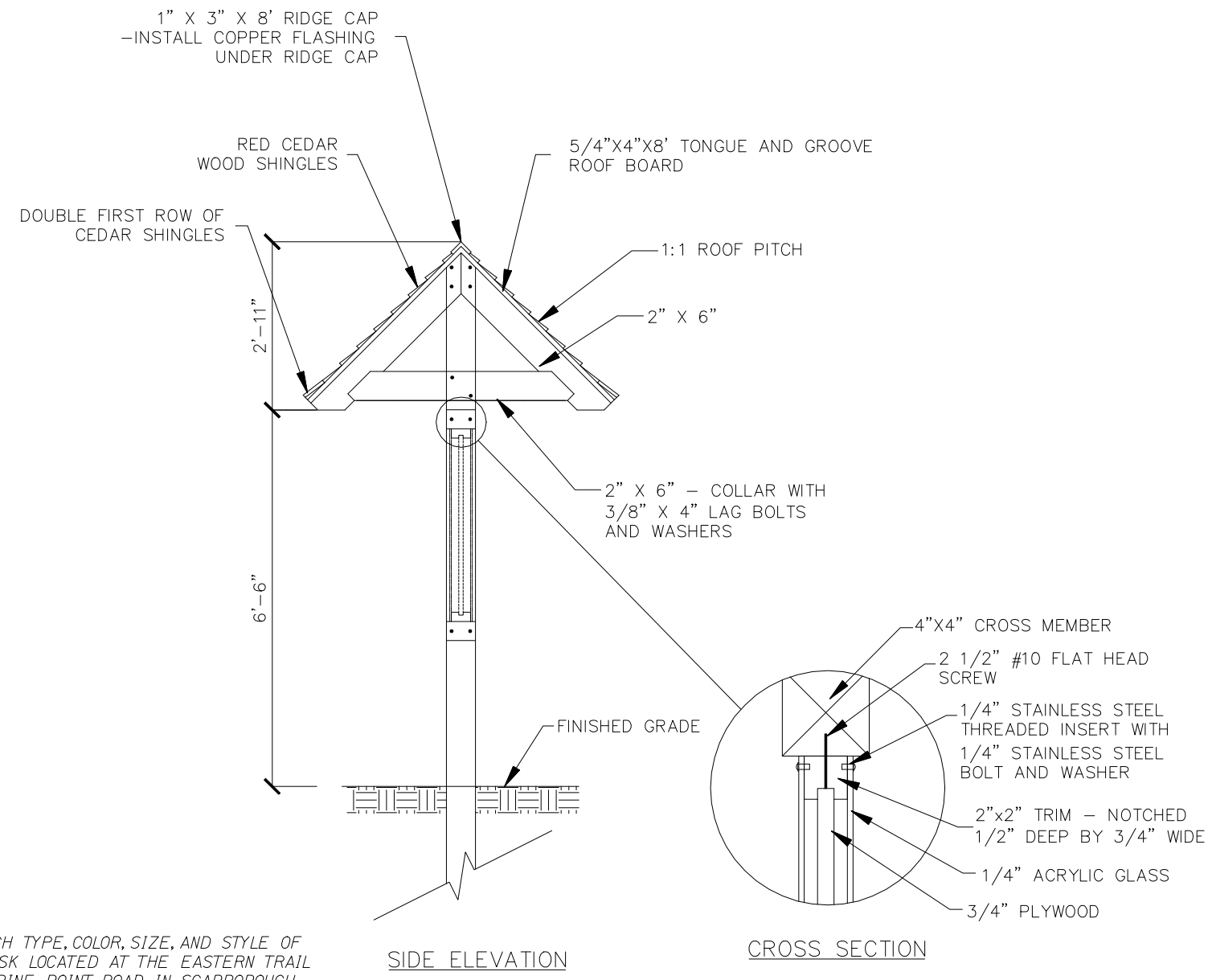
DETECTABLE WARNING FIELD DETAILS
N.T.S.

- NOTE:
1. ALL DETECTABLE WARNING AREAS SHALL START 6" FROM THE FLOW LINE OF THE CURB AND BE 24" IN DEPTH AND COVER THE COMPLETE WIDTH OF THE TRAIL.
 2. DETECTABLE WARNINGS REQUIRED AT STREET CROSSINGS.
 3. SEE SPECIAL PROVISION 608, CURB RAMP DETECTABLE WARNING FIELD FOR CONSTRUCTION REQUIREMENTS.
 4. DOMES SHALL BE EQUALLY SPACED IN BOTH DIRECTIONS 1.6' TO 2.4'.



TRAIL KIOSK DETAILS
N.T.S.

- NOTES:
1. KIOSK TO MATCH TYPE, COLOR, SIZE, AND STYLE OF EXISTING TRAIL KIOSK LOCATED AT THE EASTERN TRAIL PARKING AREA ON PINE POINT ROAD IN SCARBOROUGH.
 2. ACRYLIC GLASS COVERING TO BE AFFIXED WITH TAMPER PROOF HARDWARE.
 3. ALL WOOD IS TO BE SOUTHERN YELLOW PINE NO.1 S4S (SURFACED FOUR SIDES) PRESSURE TREATED ACO TIMBERS UNLESS OTHERWISE NOTED.
 4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY PROJECT MANAGER.



- NOTES:
1. SEE SPECIAL PROVISION SECTION 603 FOR ADDITIONAL CAMBERED PIPE PLACEMENT REQUIREMENTS.
 2. CULVERT SHALL BE EMBEDDED INTO THE EXISTING STREAM BED APPROXIMATELY ONE FOOT.
 3. THE PROPOSED CULVERT SHALL HAVE THE EMBEDDED PORTION FILLED WITH GRAVEL AND STONE AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE ON A TIME AND MATERIALS BASIS IN ACCORDANCE WITH SPECIAL PROVISION 513.

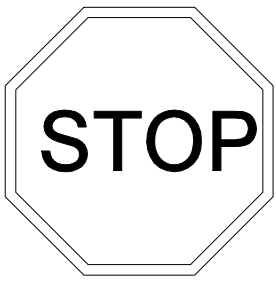

OFFSET	SIDE	ANTICIPATED SETTLEMENT
56'	LT	1.0"
48'	LT	2.5"
40'	LT	5.2"
32'	LT	9.0"
24'	LT	11.9"
16'	LT	13.8"
8'	LT	14.7"
0'	Q	15.0"
8'	RT	14.7"
16'	RT	13.8"
24'	RT	11.9"
32'	RT	9.0"
40'	RT	5.2"
48'	RT	2.5"
56'	RT	1.0"

60" DIAMETER CULVERT: CAMBERED PIPE PLACEMENT
N.T.S.

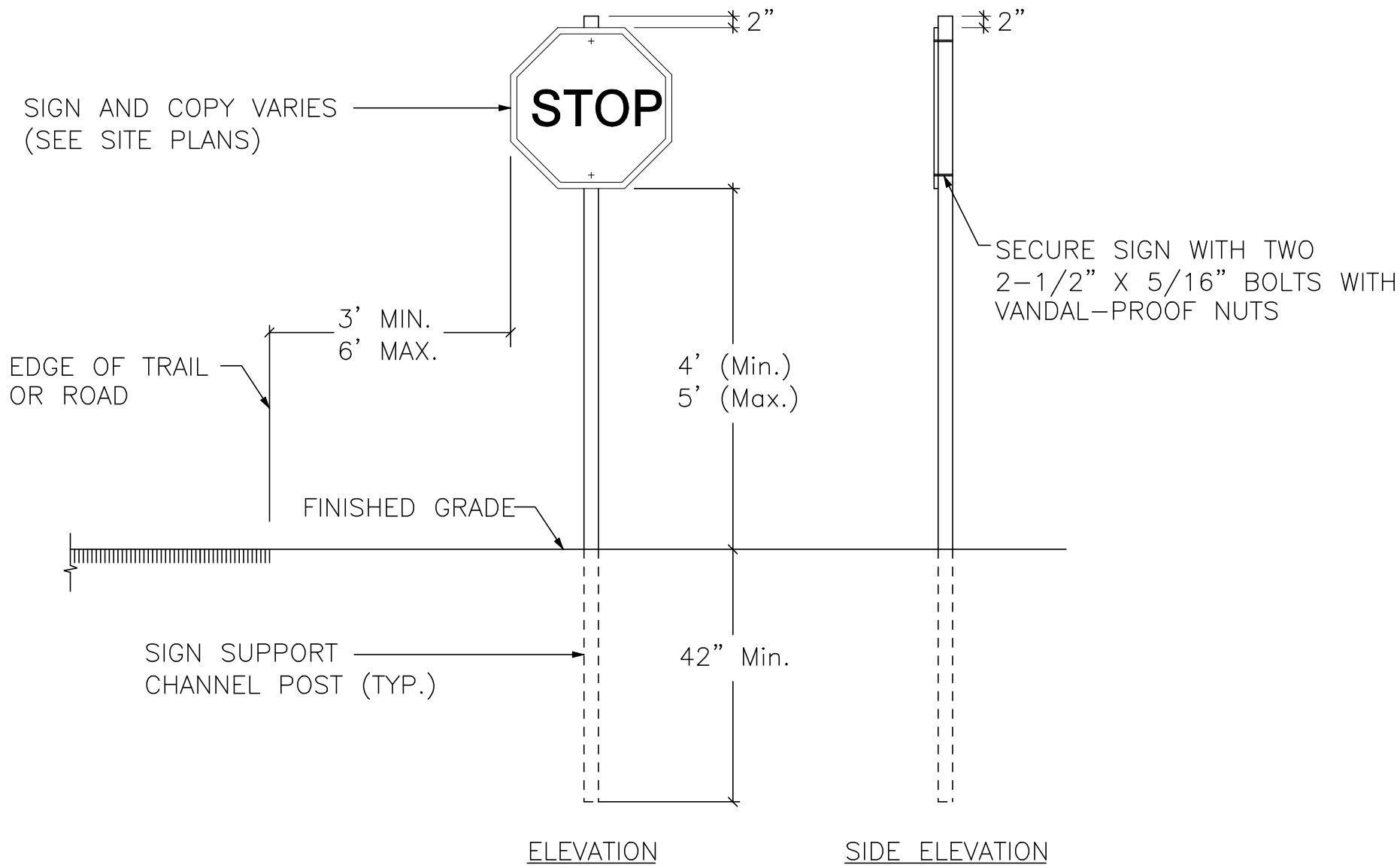
BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGNED	06/09			
DRAWN	06/09			
CHECKED	06/09			
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
REVISIONS 5				
REVISIONS 6				

Date:8/17/2009

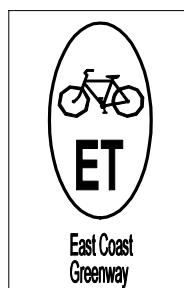
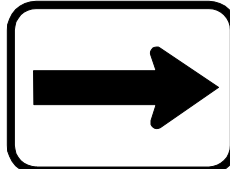


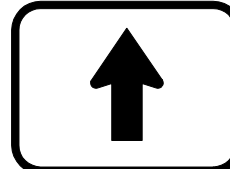
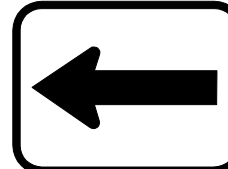
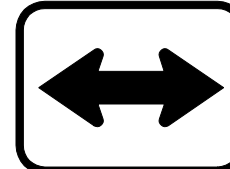
REGULATORY SIGNS

SIGN DESIGNATION		A	F
SIGN NUMBER		R1-1	R5-3
LEGEND			
COLOR	BACKGROUND	RED	WHITE
	COPY	WHITE	BLACK
SIGN DIMENSION	WIDTH, INCHES	18	24
	HEIGHT, INCHES	18	24
AREA		2.25	4


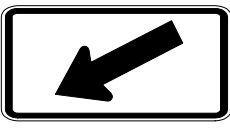





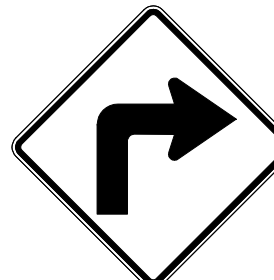

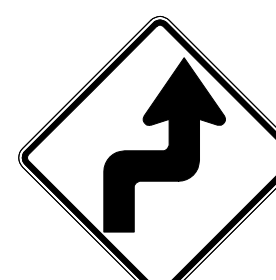
- NOTES:**
1. ALL SIGNS SHALL BE TYPE 1. REFER TO SECTION 645 FOR NUMBER AND TYPE.
 2. THE ORDER SHALL BE AS NOTED ON THE PLANS.
 3. SIGN POSTS WITHIN 10' OF A LOCAL ROAD SHALL BE COMPLIANT WITH BREAKAWAY STANDARDS.



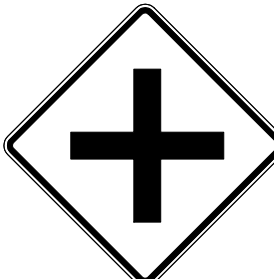
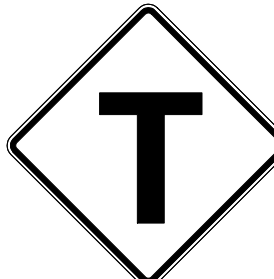


GUIDE SIGNS

SIGN DESIGNATION		B	C	H	I	J	S	T
SIGN NUMBER		D11-1	M7-1R	M4-12	M4-11	M7-2	M7-1L	M7-5
LEGEND								
COLOR	BACKGROUND	TO BE SUPPLIED BY ETMD	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN
	COPY		WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
SIGN DIMENSION	WIDTH, INCHES		12	24	24	12	12	12
	HEIGHT, INCHES		9	6	6	9	9	9
AREA			0.75	1	1	0.75	0.75	0.75

WARNING SIGNS

SIGN DESIGNATION		D	E	G	K	L	M	N	O	P	Q
SIGN NUMBER		W11-1	W16-7pL	W16-2a(M)	W7-5	W11-2	W1-2R	W1-2L	W1-1R	W1-1L	W1-3R
LEGEND											
COLOR	BACKGROUND	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
	COPY	BLACK	BLACK	WHITE	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
SIGN DIMENSION	WIDTH, INCHES	30	24	24	18	30	18	18	18	18	18
	HEIGHT, INCHES	30	12	12	18	30	18	18	18	18	18
AREA		6.25	2	2	2.25	6.25	2.25	2.25	2.25	2.25	2.25

SIGN DESIGNATION		R	U	W	X
SIGN NUMBER		W1-3L	W5-4a	W2-1	W2-4
LEGEND					
COLOR	BACKGROUND	YELLOW	YELLOW	YELLOW	YELLOW
	COPY	BLACK	BLACK	BLACK	BLACK
SIGN DIMENSION	WIDTH, INCHES	18	18	18	18
	HEIGHT, INCHES	18	18	18	18
AREA		2.25	2.25	2.25	2.25



2 THOMAS DRIVE
WESTBROOK, ME 04092
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EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

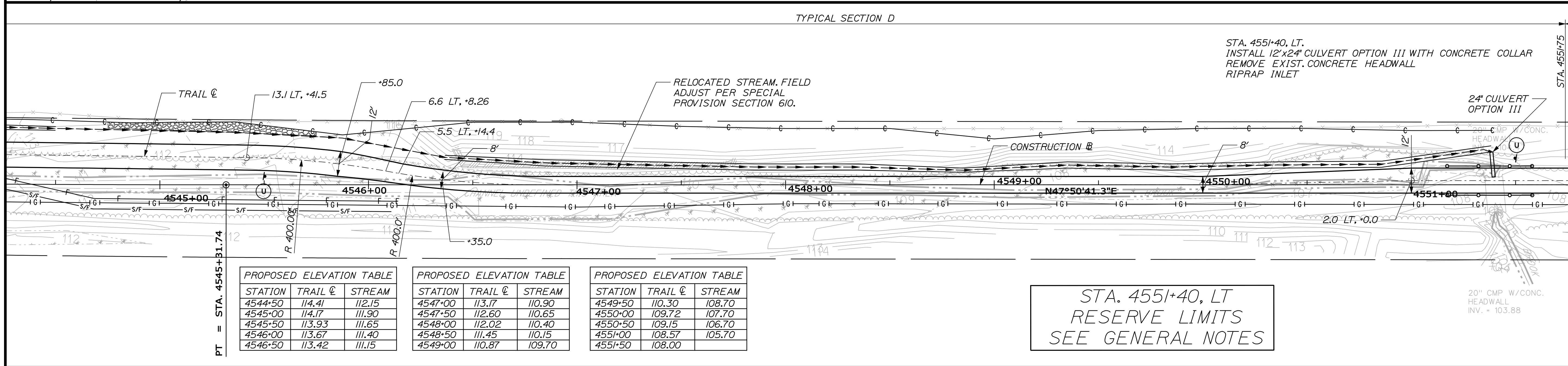
SIGNING DETAILS

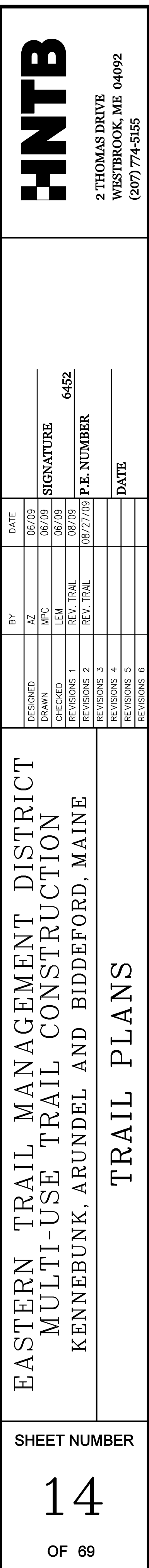
SHEET NUMBER

12

OF 69

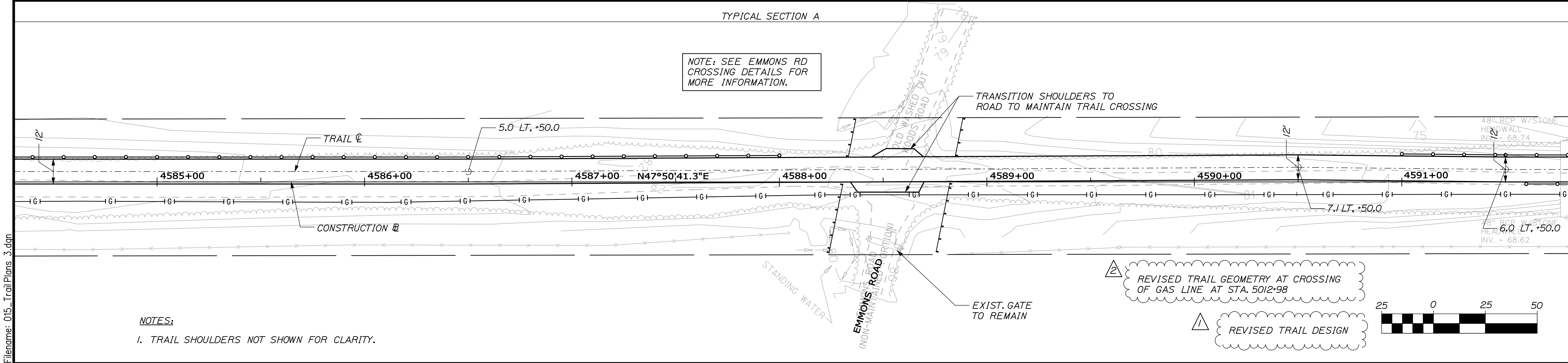
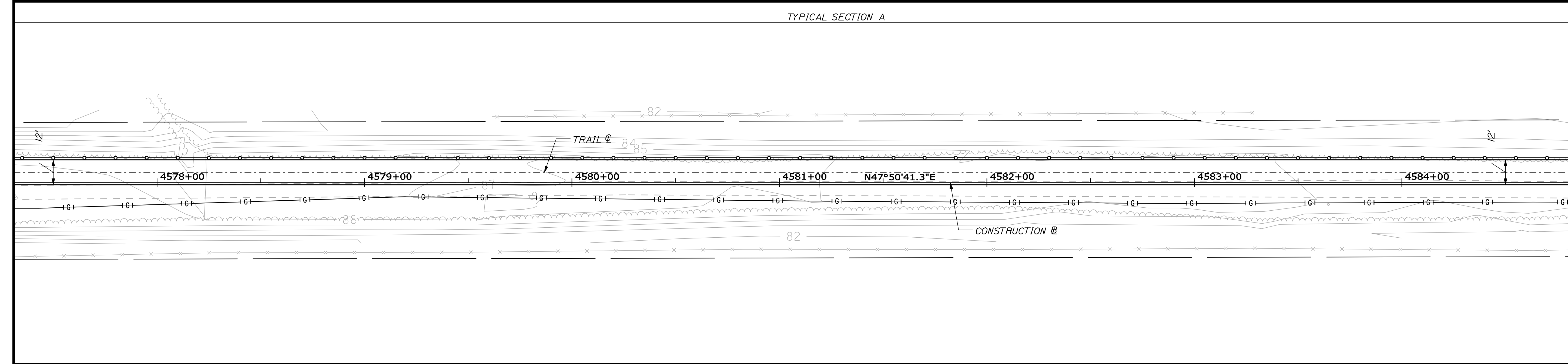
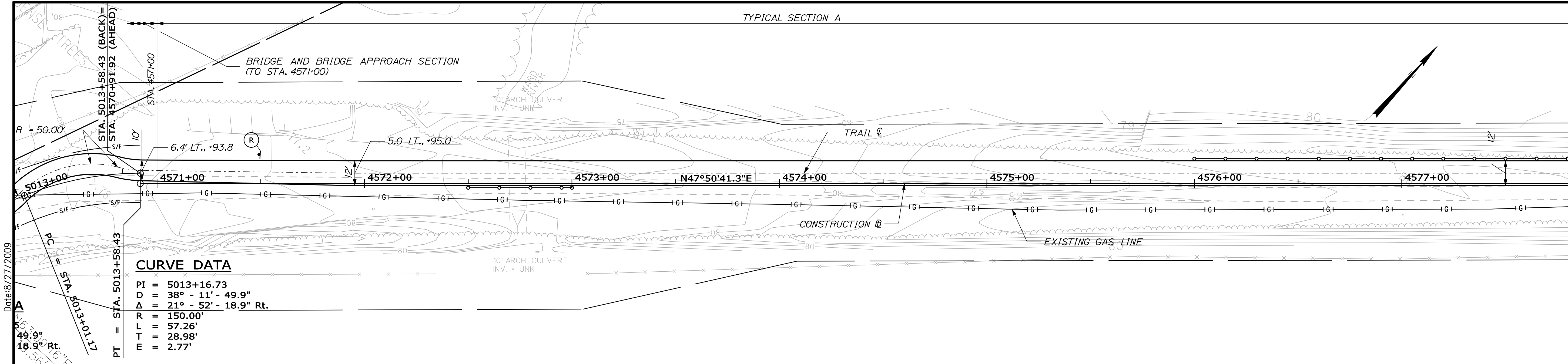
Filename: 012_Trail Sign Summary Table.dgn





Date: 8/27/2009

Filename: 015_Trail Plans 3.dgn



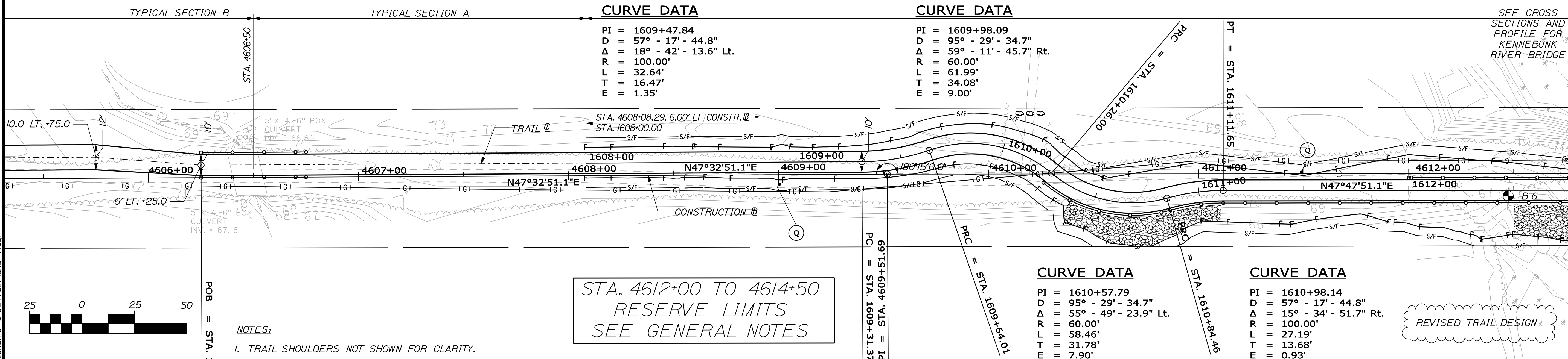
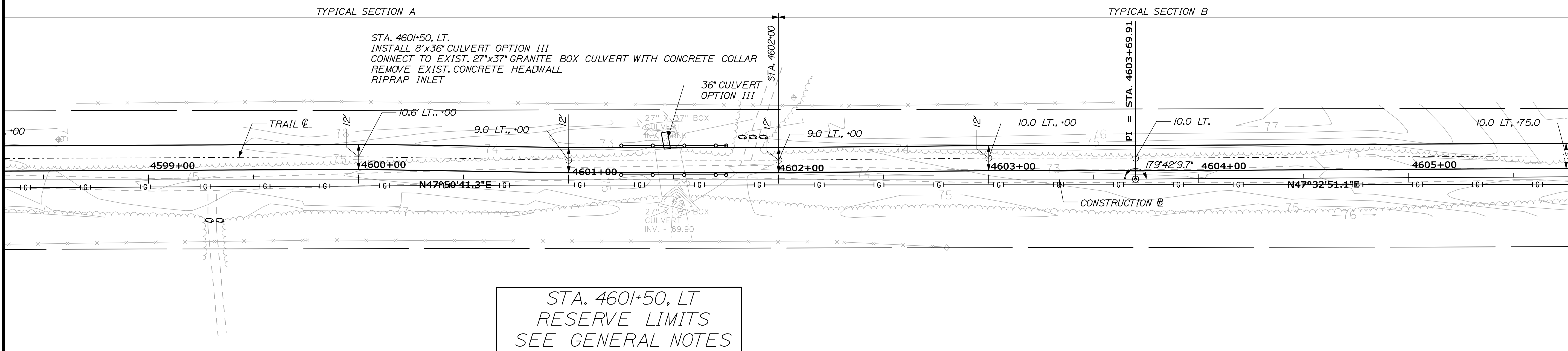
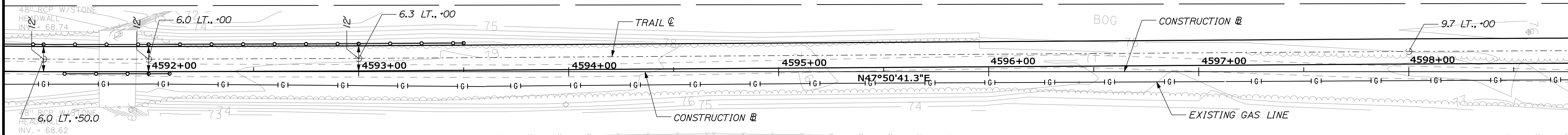
HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09		6452	
CHECKED	MPC	06/09			
LEW	LEW	06/09			
REVISIONS 1	REV. TRAIL	08/09			
REVISIONS 2	REV. TRAIL	08/27/09			
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

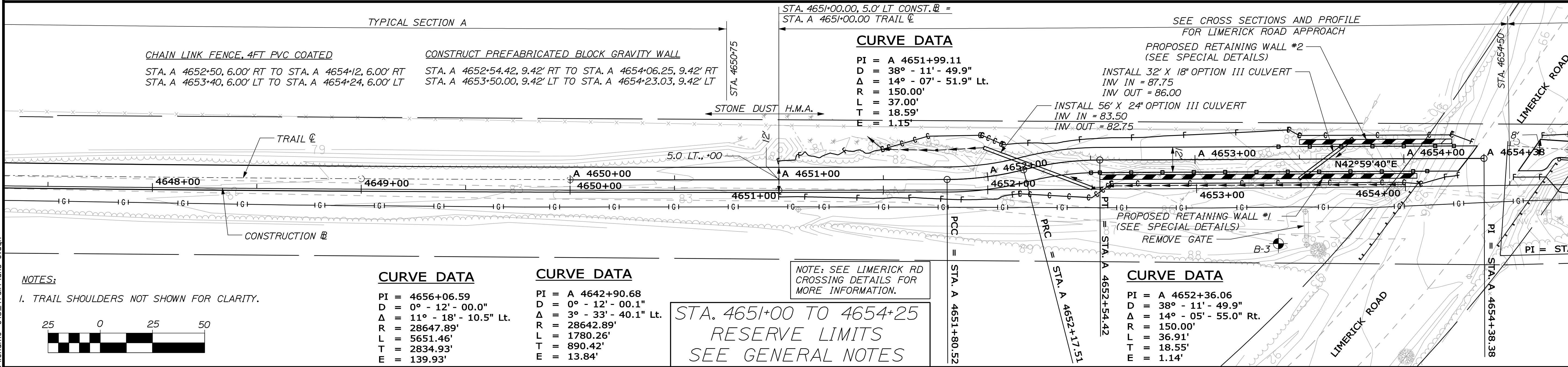
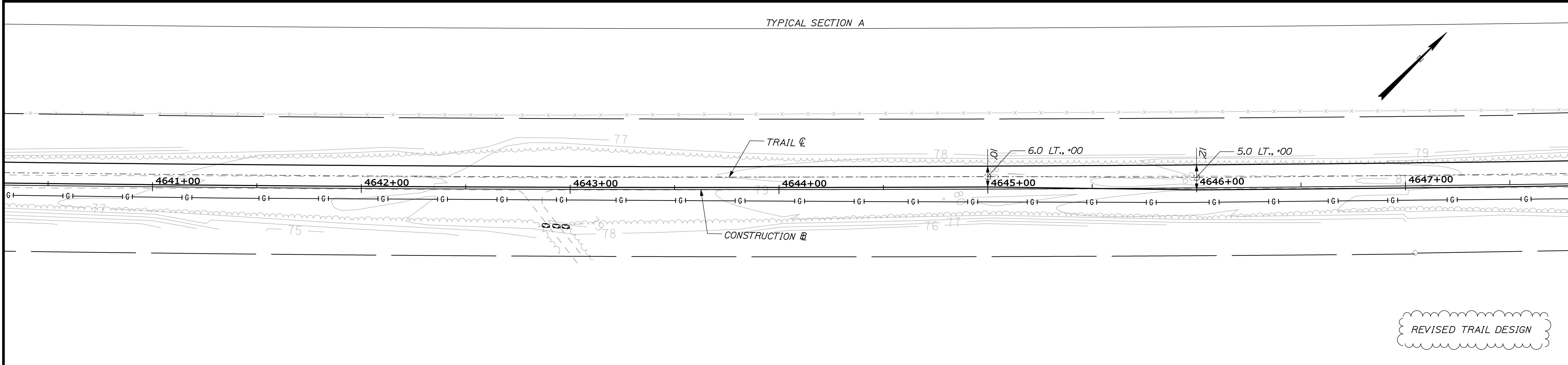
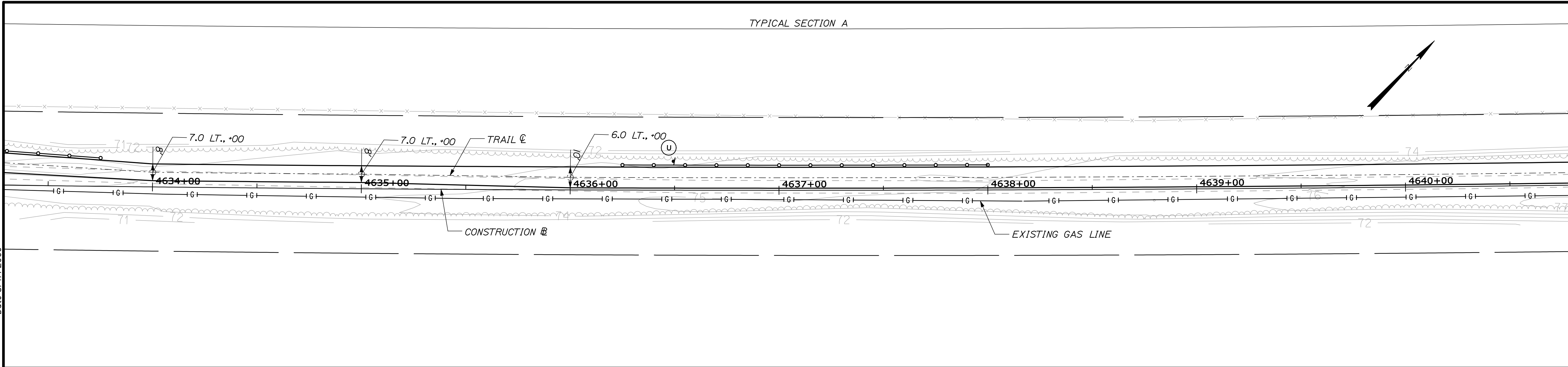
TRAIL PLANS

SHEET NUMBER
15
OF 69



Date: 8/17/2009

Filename: 018_Trail Plans 6.dgn



HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE
AZ		06/09
DRAWN	MPC	06/09
CHECKED	LEM	06/09
REVISIONS 1	REV. TRAIL	08/09
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		

SIGNATURE

6452

P.E. NUMBER

DATE

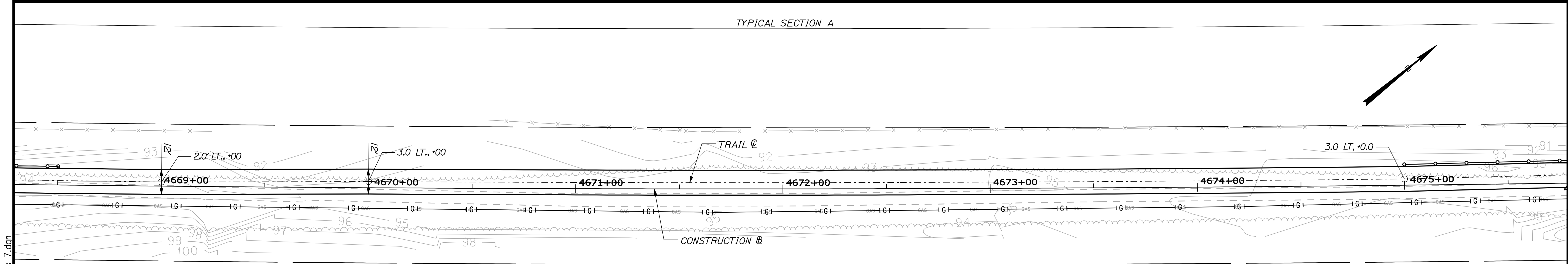
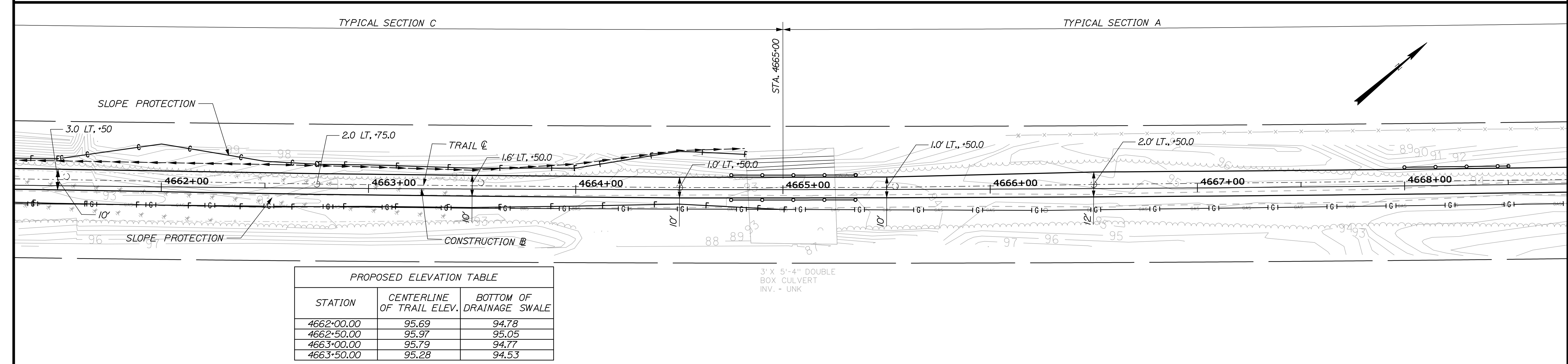
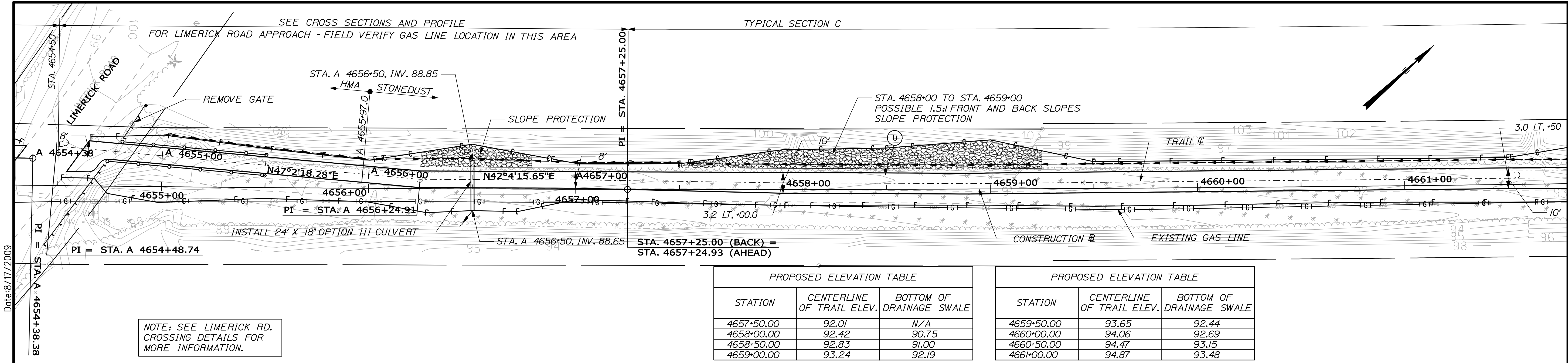
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

SHEET NUMBER
18
OF 69

Date: 8/17/2009

Filename: 019_TrailPlans 7.dgn



NOTES:

1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

CURVE DATA

PI = 4656+06.59
D = 0° - 12' - 00.0"
Δ = 11° - 18' - 10.5" Lt.
R = 28647.89'
L = 5651.46'
T = 2834.93'
E = 139.93'

REVISED TRAIL DESIGN



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

SHEET NUMBER

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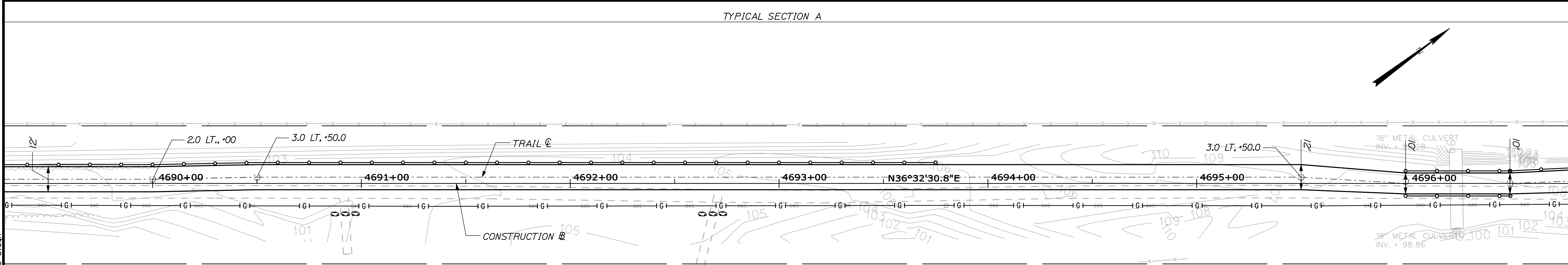
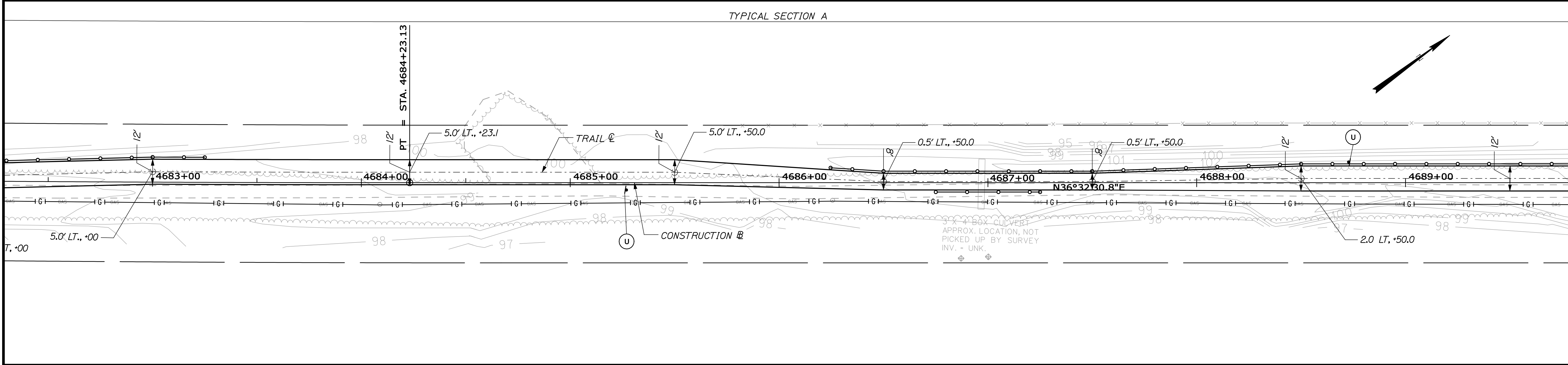
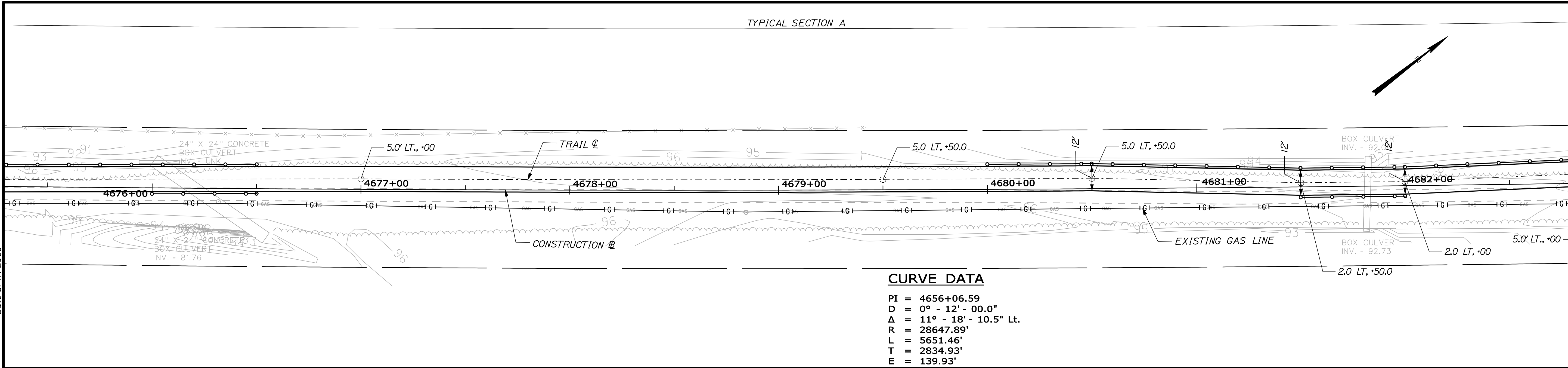
DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
AZ	LEW	06/09		6452	
MP	REV. TRAIL	06/09			
LEW		06/09			
REV. TRAIL		06/09			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

Date: 8/17/2009

Filename: 020_Trail Plans 8.dgn



NOTES:
1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

REVISED TRAIL DESIGN



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2 THOMAS DRIVE
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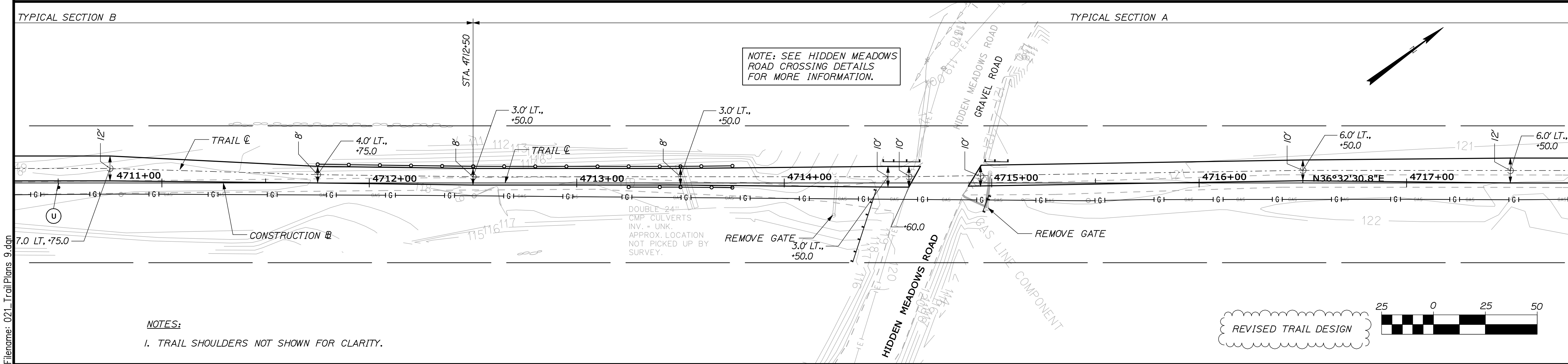
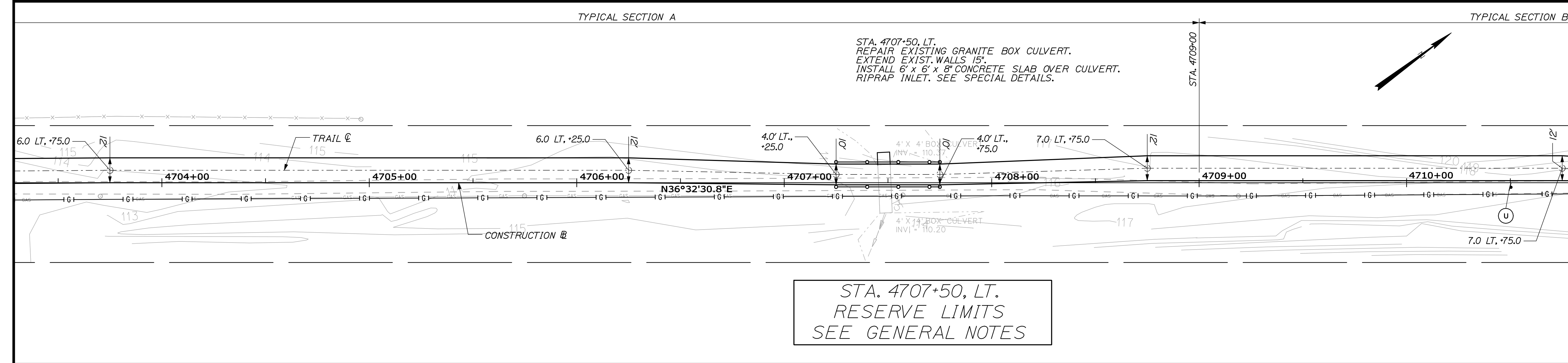
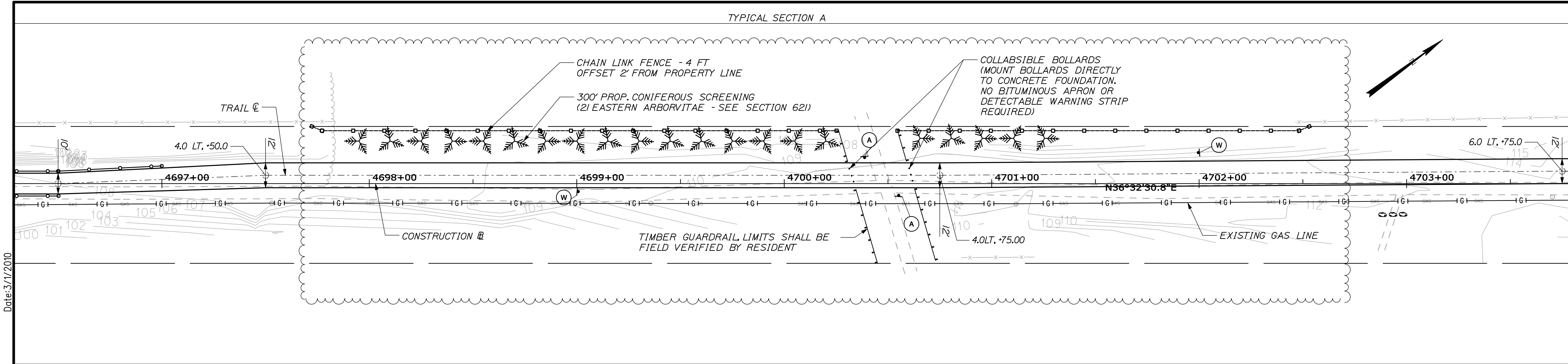
DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09		6452	
CHECKED	MPC	06/09			
LEW	REV. TRAIL	06/09			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

SHEET NUMBER
20
OF 69

Date: 3/1/2010



HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED
AZ

DRAWN
MPC

CHECKED
LEW

REVISIONS 1
REV. TRAIL

REVISIONS 2
REV. TRAIL

REVISIONS 3
REV. TRAIL

REVISIONS 4
REV. TRAIL

REVISIONS 5
REV. TRAIL

REVISIONS 6
REV. TRAIL

DATE
06/09

DATE
06/09

DATE
06/09

DATE
08/09

DATE
03/10

DATE

DATE

SIGNATURE

6452

P.E. NUMBER

DATE

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

SHEET NUMBER

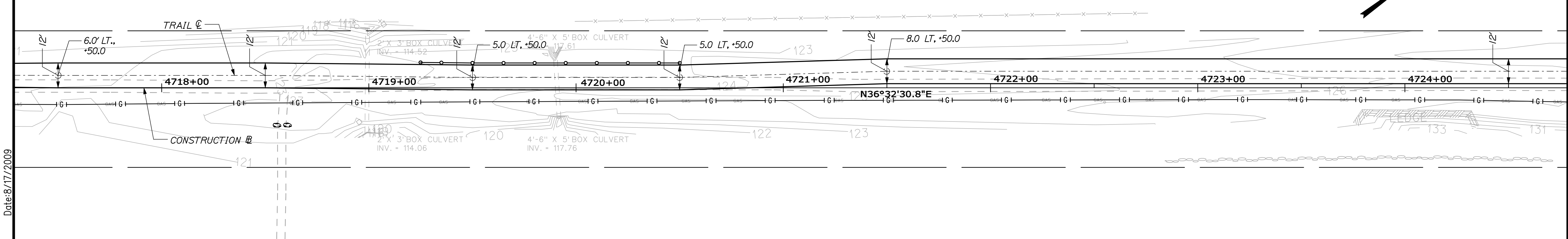
21

OF 69

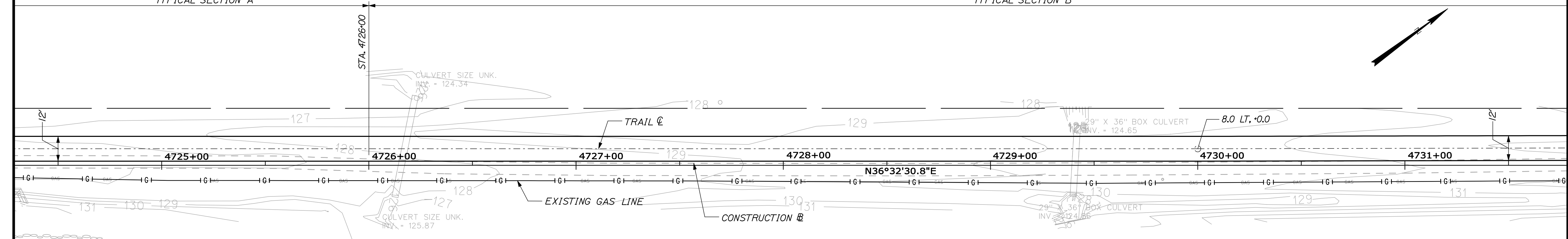
Date: 8/17/2009

Filename: 022_Trail Plans 10.dgn

TYPICAL SECTION A

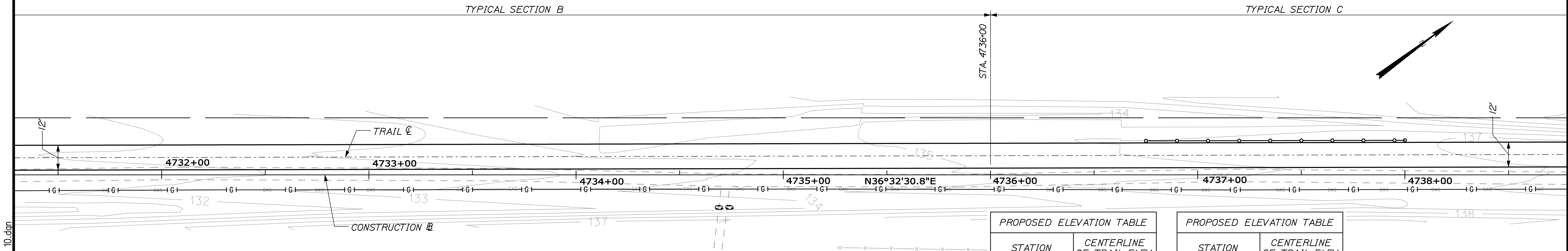


TYPICAL SECTION A



TYPICAL SECTION B

TYPICAL SECTION B



TYPICAL SECTION C

NOTES:
1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

REVISED TRAIL DESIGN

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4736+00.00	137.50
4736+25.00	137.64
4736+50.00	138.34
4736+75.00	138.44
4737+00.00	138.47
4737+25.00	138.50

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4737+50.00	138.59
4737+75.00	138.78
4738+00.00	139.05
4738+25.00	138.99
4738+50.00	139.09
4738+75.00	139.52



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

SHEET NUMBER

22

OF 69

DESIGNED	BY	DATE	SIGNATURE
AZ	AZ	06/09	
DRAWN	BY	DATE	SIGNATURE
MPC	MPC	06/09	
CHECKED	BY	DATE	SIGNATURE
LEW	LEW	06/09	
REVISIONS 1	BY	DATE	SIGNATURE
REV. TRAIL	REV. TRAIL	08/09	
REVISIONS 2	BY	DATE	SIGNATURE
REVISIONS 3	BY	DATE	SIGNATURE
REVISIONS 4	BY	DATE	SIGNATURE
REVISIONS 5	BY	DATE	SIGNATURE
REVISIONS 6	BY	DATE	SIGNATURE

6452
P.E. NUMBER

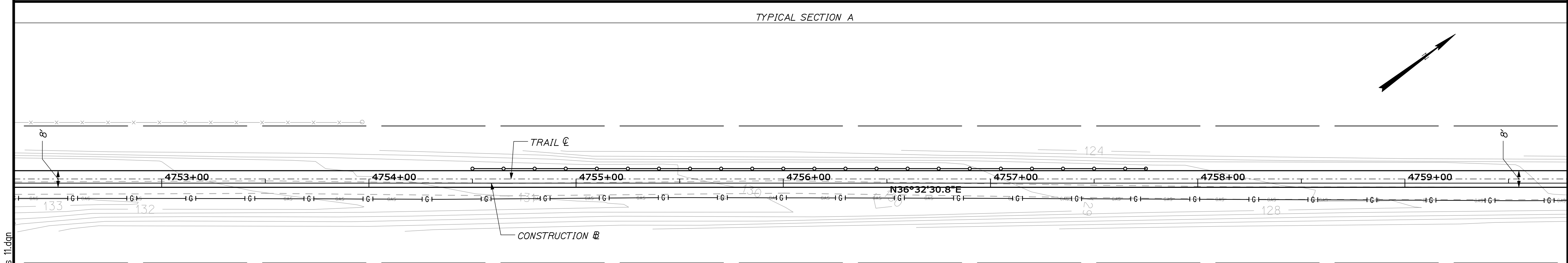
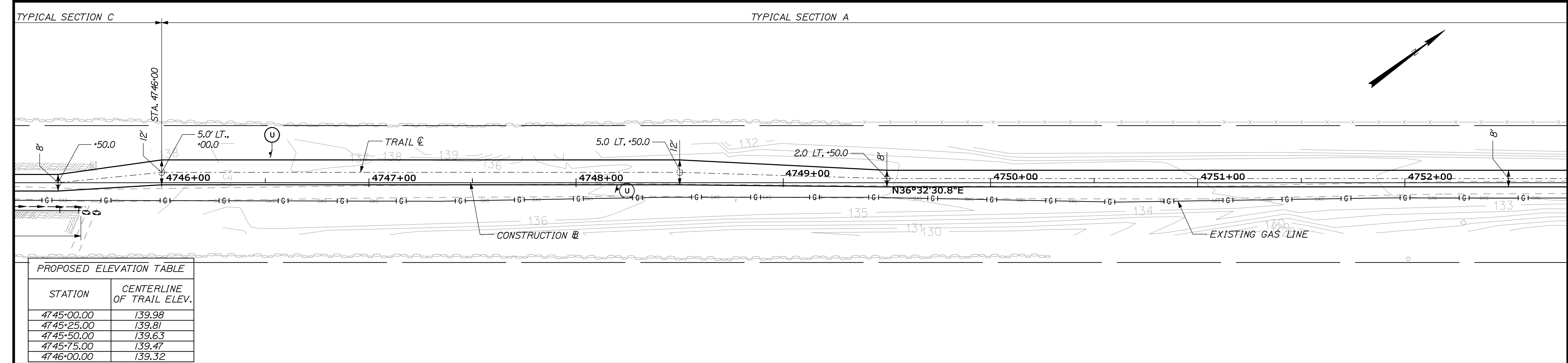
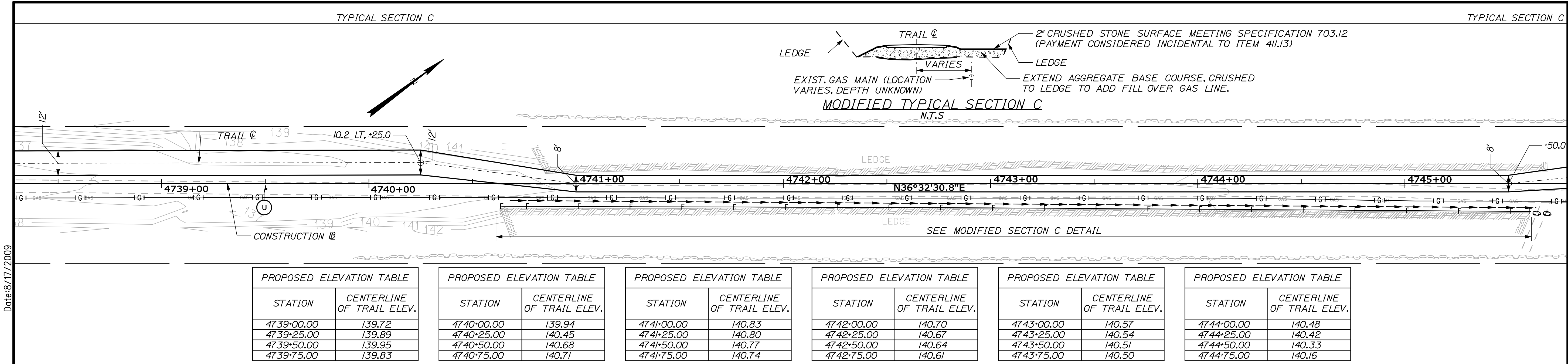
DATE

HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

Date: 8/17/2009

Filename: 023_Trail Plans 11.dgn



NOTES:

1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

REVISED TRAIL DESIGN



HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED
AZ

DRAWN
MPC

CHECKED
LEW

REVISIONS 1
REV. TRAIL

REVISIONS 2

REVISIONS 3

REVISIONS 4

REVISIONS 5

REVISIONS 6

DATE
06/09

DATE
06/09

DATE
06/09

DATE
08/09

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

SHEET NUMBER

23

OF 69

SIGNATURE

6452

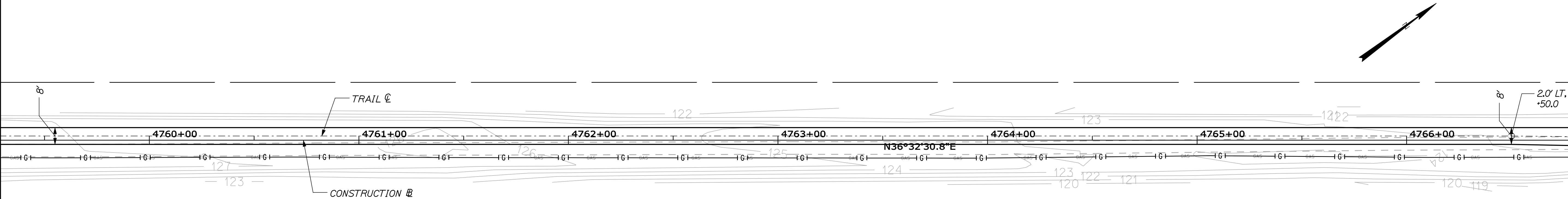
P.E. NUMBER

DATE

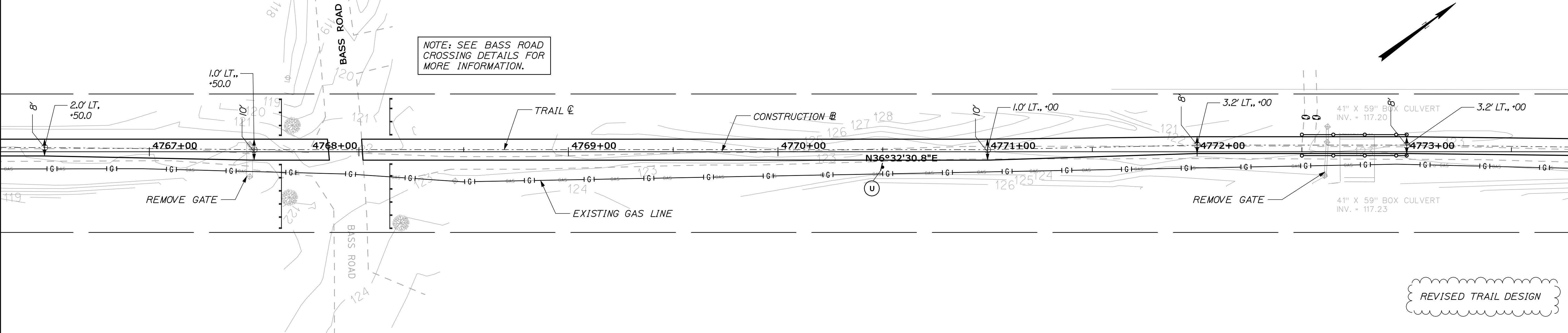
Date: 8/17/2009

Filename: 024 - Trail Plans 12.dgn

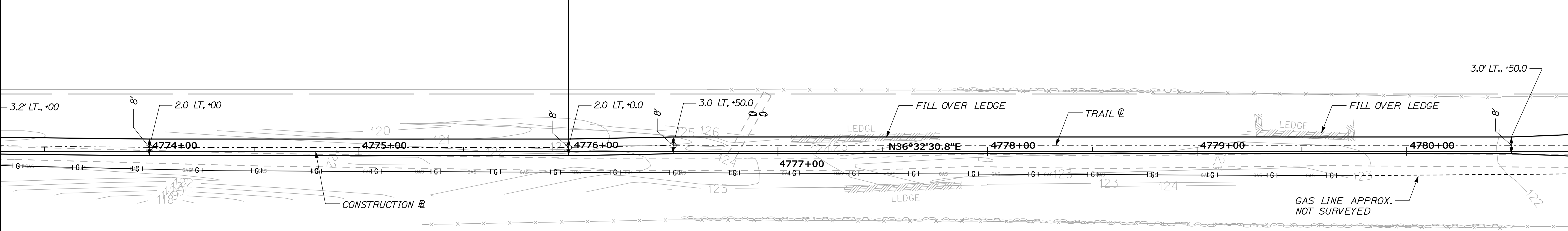
TYPICAL SECTION A



TYPICAL SECTION A



TYPICAL SECTION C



NOTES:
1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

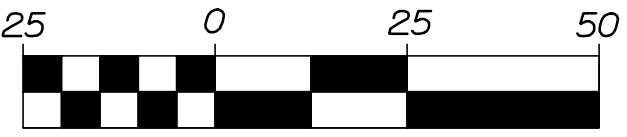
PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4776+00.00	123.45
4776+25.00	125.48
4776+50.00	125.61
4776+75.00	126.58

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4777+00.00	127.12
4777+25.00	126.85
4777+50.00	126.29
4777+75.00	125.91

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4778+00.00	125.70
4778+25.00	125.53
4778+50.00	125.52
4778+75.00	125.50

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4779+00.00	125.62
4779+25.00	125.71
4779+50.00	125.64
4779+75.00	125.52

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4780+00.00	125.22
4780+25.00	124.80
4780+50.00	124.36
4780+75.00	124.11



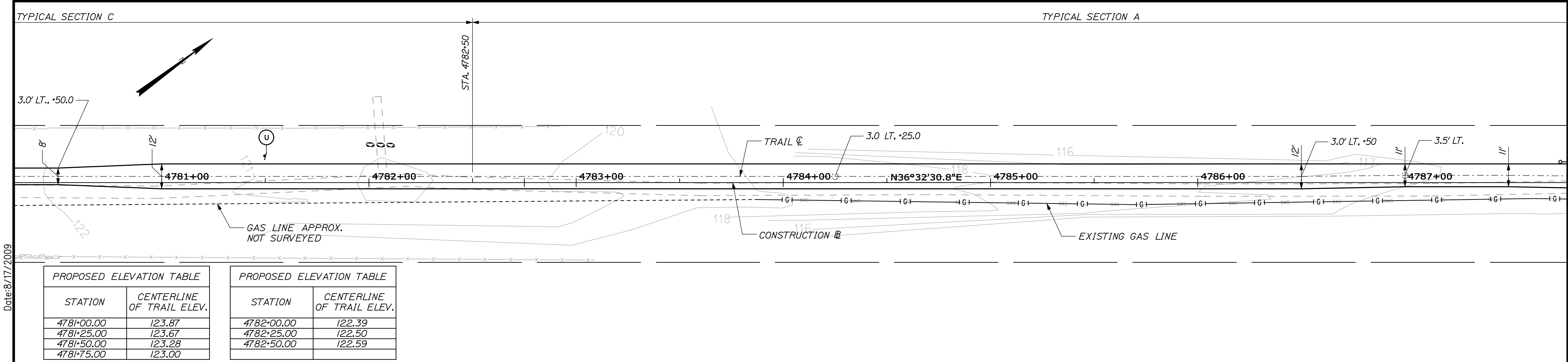
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

SHEET NUMBER
24
OF 69

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09			
CHECKED	MPC	06/09			
LEW	LEW	06/09			
REVISIONS 1	REV. TRAIL	08/09			
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

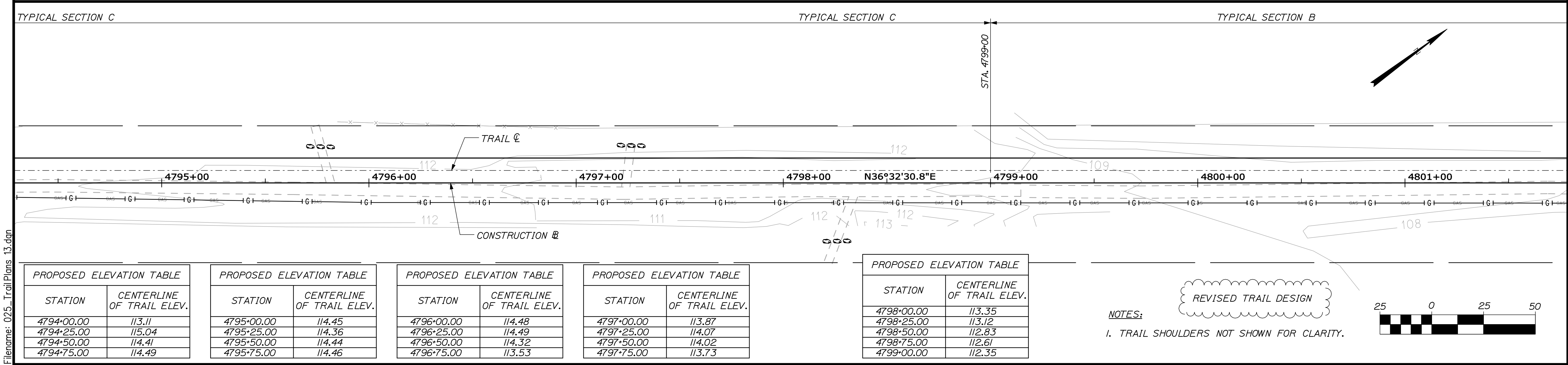
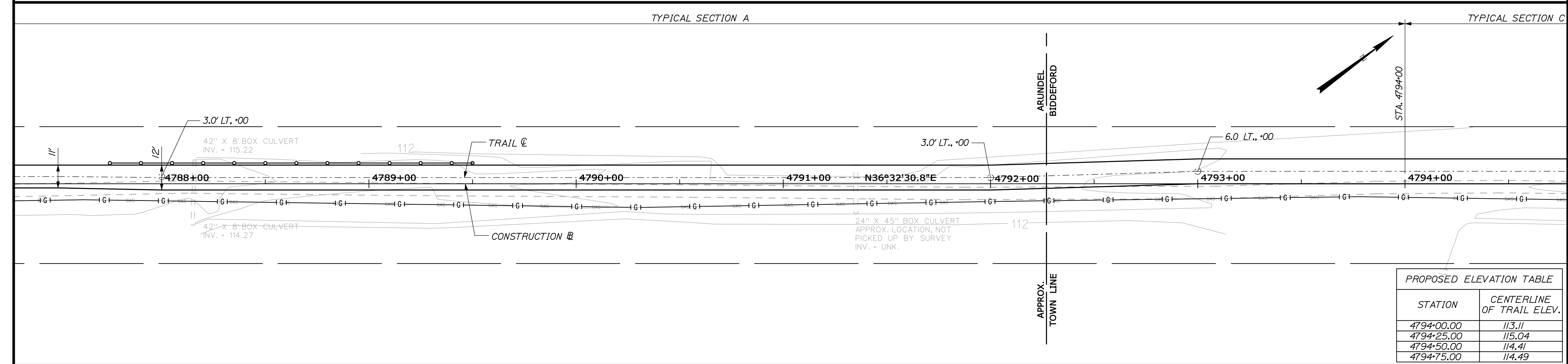
Date: 8/17/2009

Filename: 025_Trail Plans 13.dgn



PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4781+00.00	123.87
4781+25.00	123.67
4781+50.00	123.28
4781+75.00	123.00

PROPOSED ELEVATION TABLE	
STATION	CENTERLINE OF TRAIL ELEV.
4782+00.00	122.39
4782+25.00	122.50
4782+50.00	122.59



2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	DATE	BY
AZ	06/09	
DRAWN	MPC	
CHECKED	LEW	
REVISIONS 1	REV. TRAIL	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		

SIGNATURE

6452

P.E. NUMBER

DATE

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

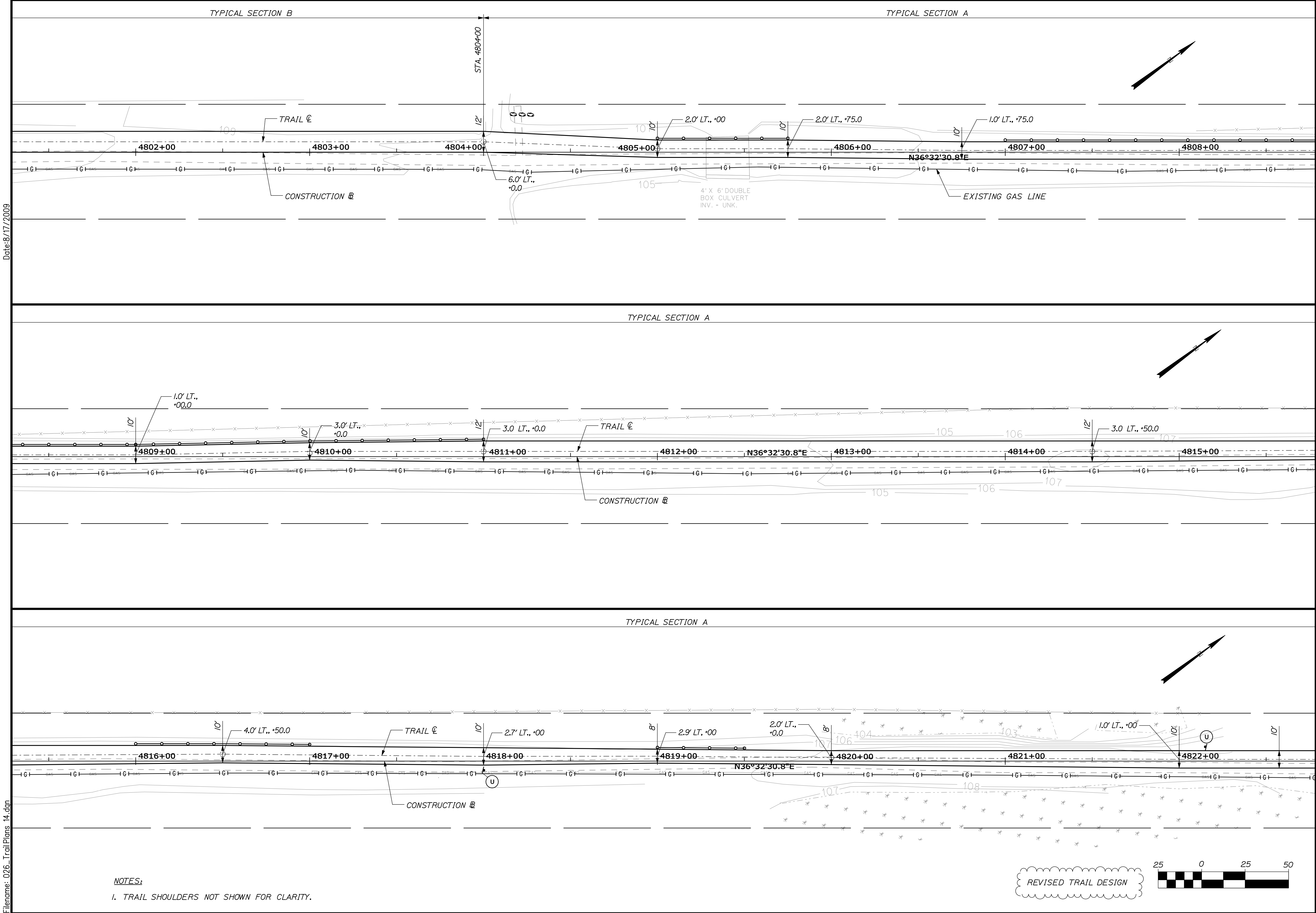
SHEET NUMBER

25

OF 69

Date: 8/17/2009

Filename: 026_Trail Plans 14.dgn



NOTES:
1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

REVISED TRAIL DESIGN



HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE
	AZ	06/09
DRAWN	MFC	06/09
CHECKED	LEM	06/09
REVISIONS 1	REV. TRAIL	08/09
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		

SHEET NUMBER
26
OF 69

DATE

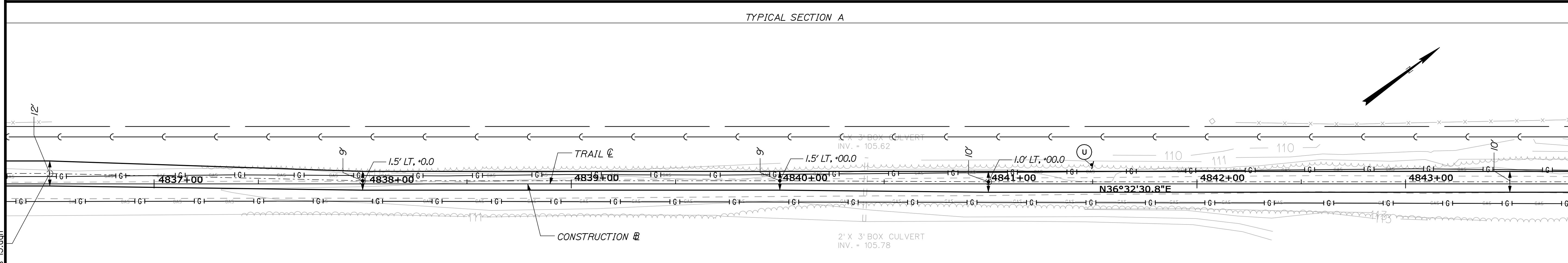
P.E. NUMBER
6452

SIGNATURE

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

TRAIL PLANS

Filename: 027_TrailPlans 15.dgn



1. TRAIL SHOULDERS NOT SHOWN FOR CLARITY.

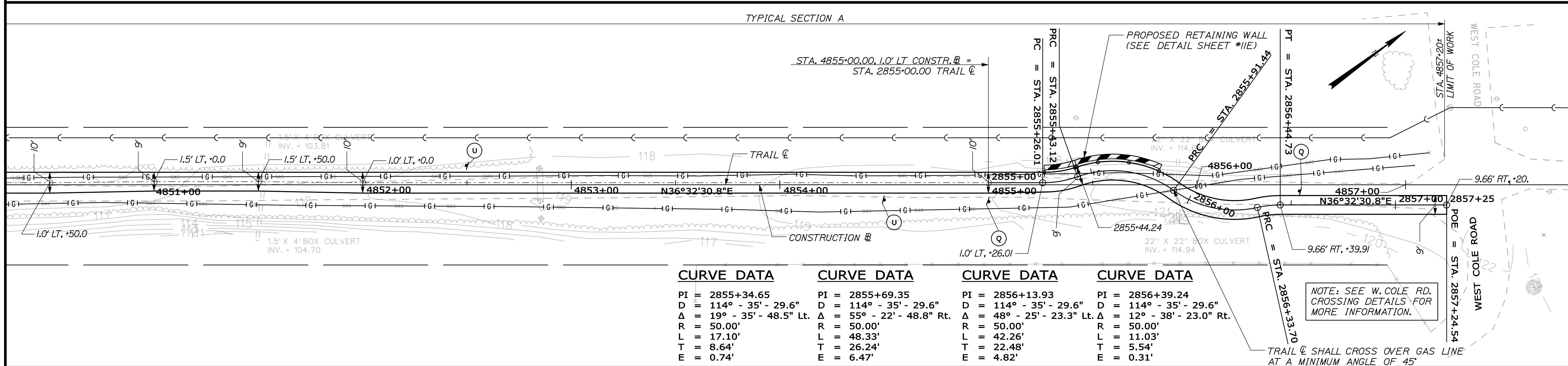
SHEET NUMBER

27

OF 69

SIGNATURE	6452
P.E. NUMBER	
DATE	

HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155



3
REVISED RETAINING WALL NOTE
ADDED CURVE DATA FOR TRAIL C

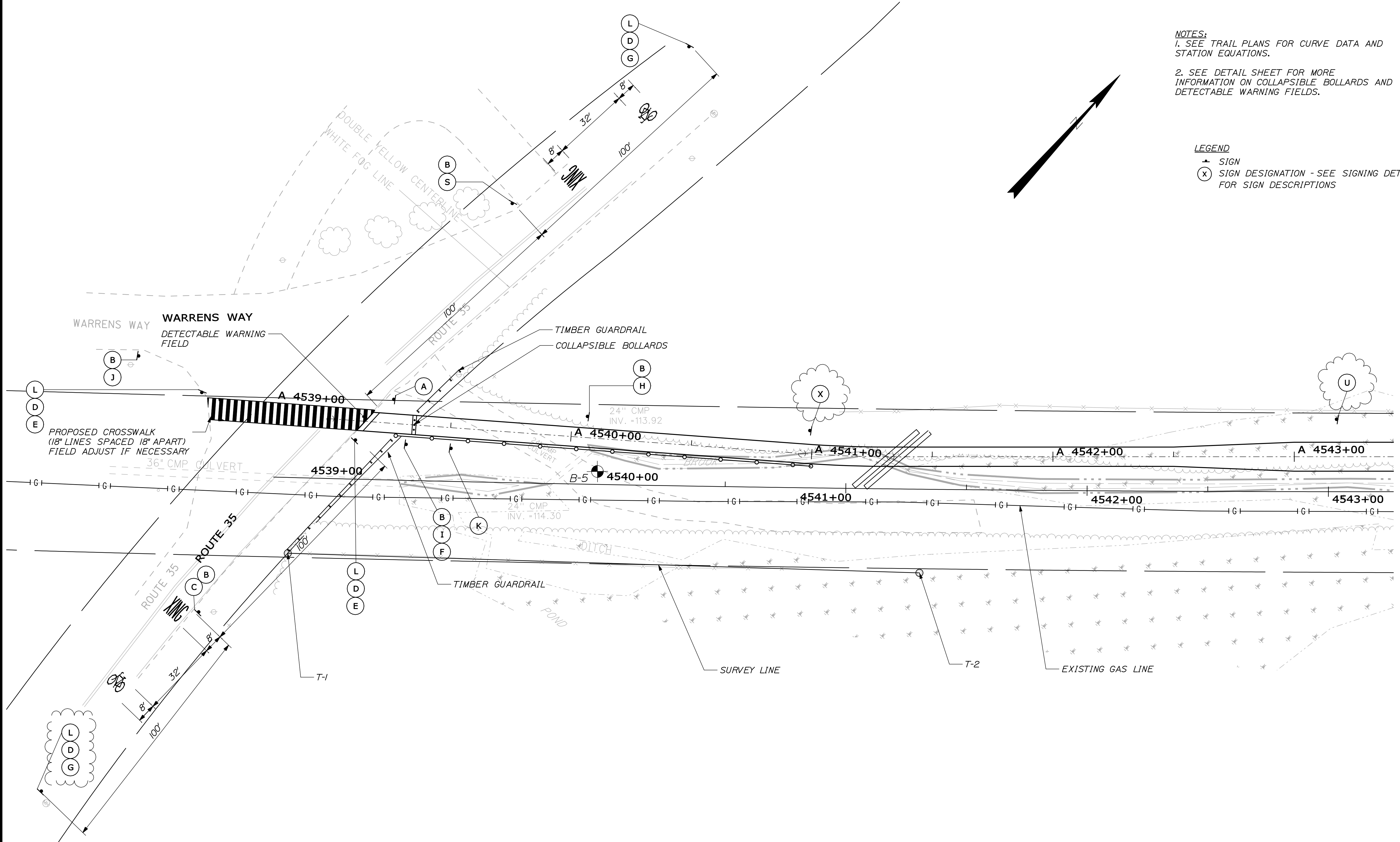
2
REVISED TRAIL GEOMETRY AT CROSSING
OF GAS LINE AT STA. 4855+85

1
REVISED TRAIL DESIGN

25 0 25 50

Date: 8/17/2009

Filename: 029_Route 35_road_crossing_plan.dgn



NOTES:
1. SEE TRAIL PLANS FOR CURVE DATA AND STATION EQUATIONS.
2. SEE DETAIL SHEET FOR MORE INFORMATION ON COLLAPSIBLE BOLLARDS AND DETECTABLE WARNING FIELDS.

LEGEND
+ SIGN
(X) SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS

SURVEY ALIGNMENT DATA						
NO.	STATION	OFFSET	BASELINE	NORTH COORD.	EAST COORD.	REMARKS
T-1	4538+69.524	31.430 RT.	CONSTRUCTION	210971.9513	934,159.3934	PROPERTY PIN
T-2	4541+30.886	34.686 RT.	CONSTRUCTION	211139.1316	934,360.9704	PROPERTY PIN

NOTE:
TRAIL SHOULDERS NOT SHOWN FOR CLARITY



HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	DATE	BY	SIGNATURE
DRAWN	06/09	AZ	
CHECKED	06/09	MFC	
REV. 1	06/09	LEW	
REV. 2	08/09	REV. SIGNING	
REV. 3			
REV. 4			
REV. 5			
REV. 6			

6452	P.E. NUMBER	DATE

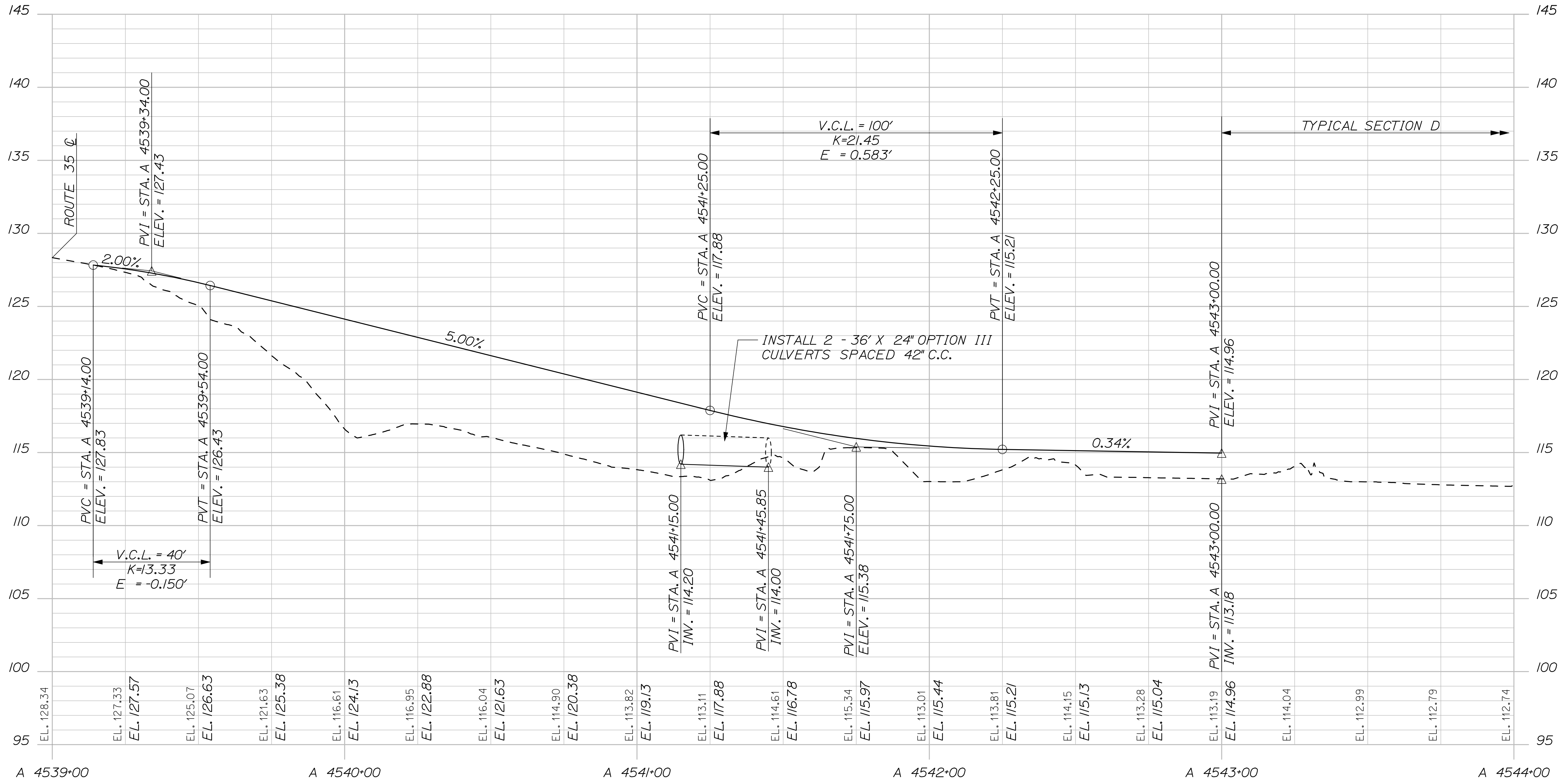
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

ROUTE 35 CROSSING PLAN

SHEET NUMBER

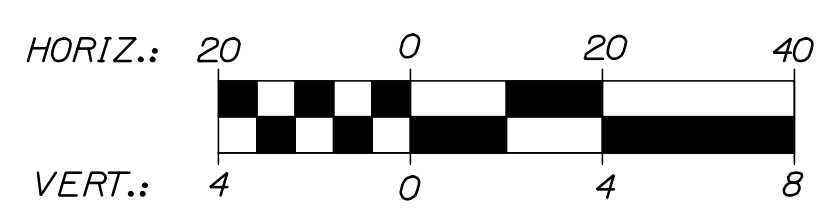
29

OF 69



PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

ROUTE 35 CROSSING PROFILE

SHEET NUMBER
30
OF 69

DESIGNED	BY	DATE	SIGNATURE
DRAWN	AZ	06/09	
CHECKED	MPC	06/09	
REVISIONS 1	LEM	06/09	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

6452

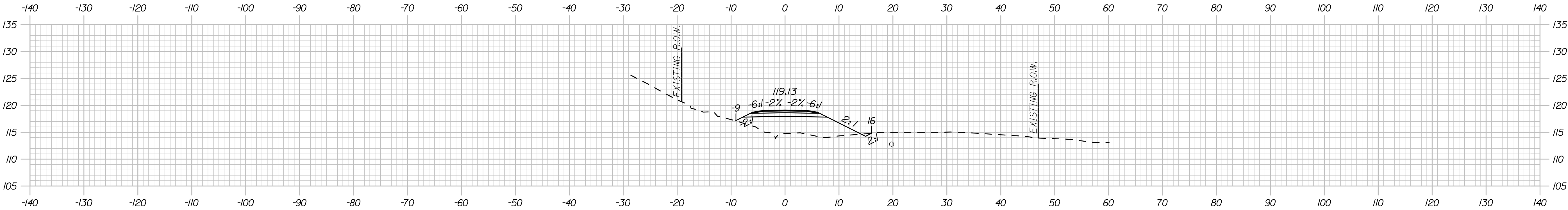
P.E. NUMBER

DATE

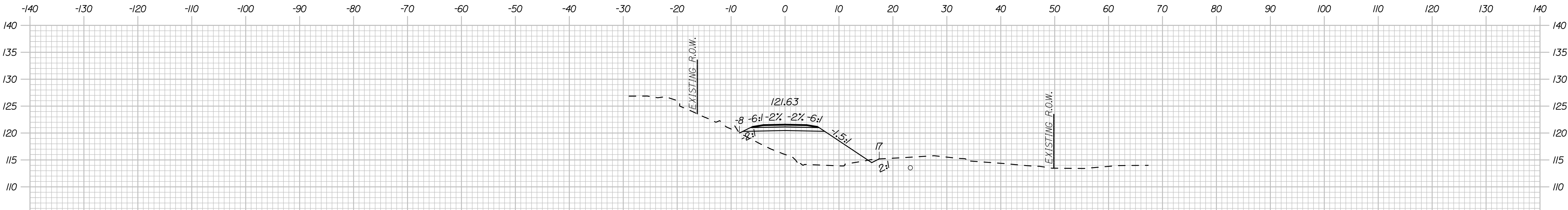
Username: moundiff

Date:8/17/2009

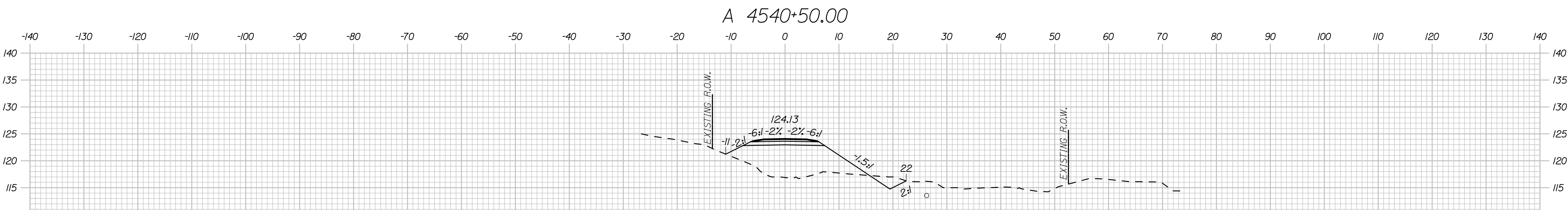
Filename: 031_Route 35+road crossing cross section design BRIDGE



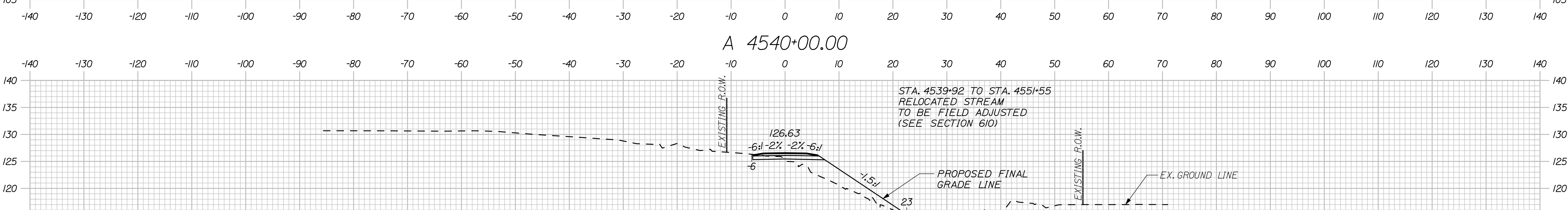
A 4541+00.00



A 4540+50.00



A 4540+00.00



A 4539+50.00

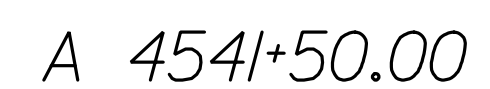
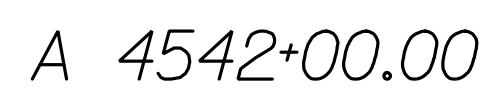
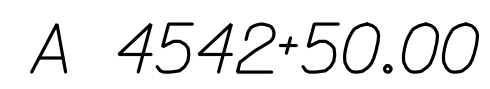
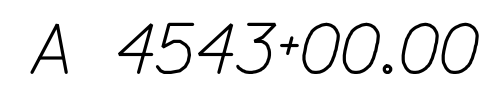
STA. 4539+92 TO STA. 4551+55
RELOCATED STREAM
TO BE FIELD ADJUSTED
(SEE SECTION 610)

PROPOSED FINAL
GRADE LINE

EX. GROUND LINE

APPROX. LOCATION OF
EXISTING 8" GAS MAIN
DEPTH UNKNOWN

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09			
CHECKED	MPC	06/09			
REVISIONS 1	LEM	06/09			
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					



REVISED STREAM RELOCATION

	BY	DATE
DESIGNED	AZ	06/09
DRAWN	WPC	06/09
CHECKED	DSE	06/09
REVISIONS 1	RELOC. STREAM	08/09
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		
		DATE
		P.E. NUMBER
		SIGNATURE

EASTERN TRAIL MANAGEMENT DISTRICT MULTI-USE TRAIL CONSTRUCTION KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE ROUTE 35 CROSSING CROSS SECTIONS

SHEET NUMBER

32

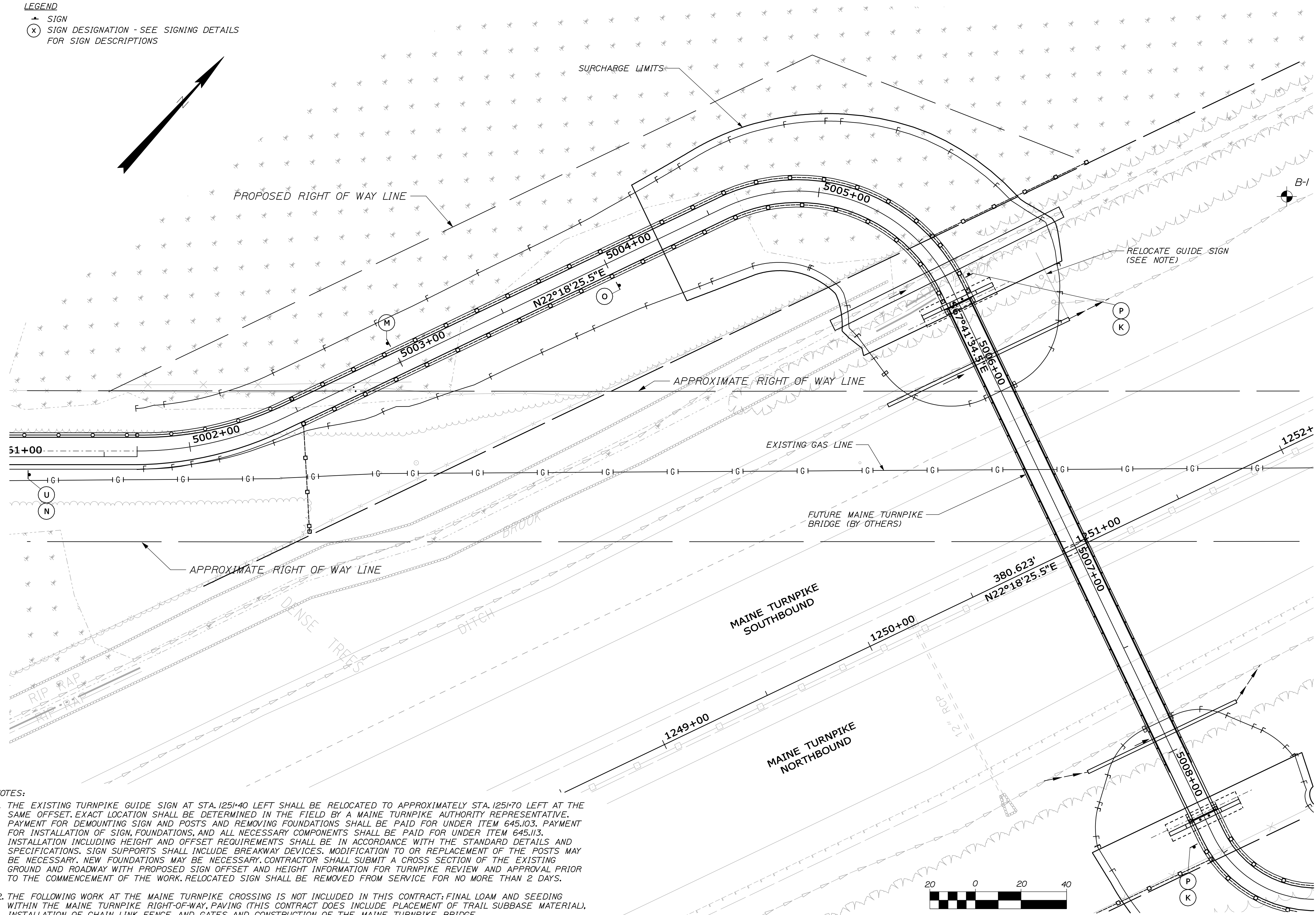
OF 69

Date: 8/17/2009

Filename: 033_Turnpike bridge approach plan 1.dgn

LEGEND

- SIGN
(X) SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS



HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
TURNPIKE CROSSING PLAN I

SHEET NUMBER

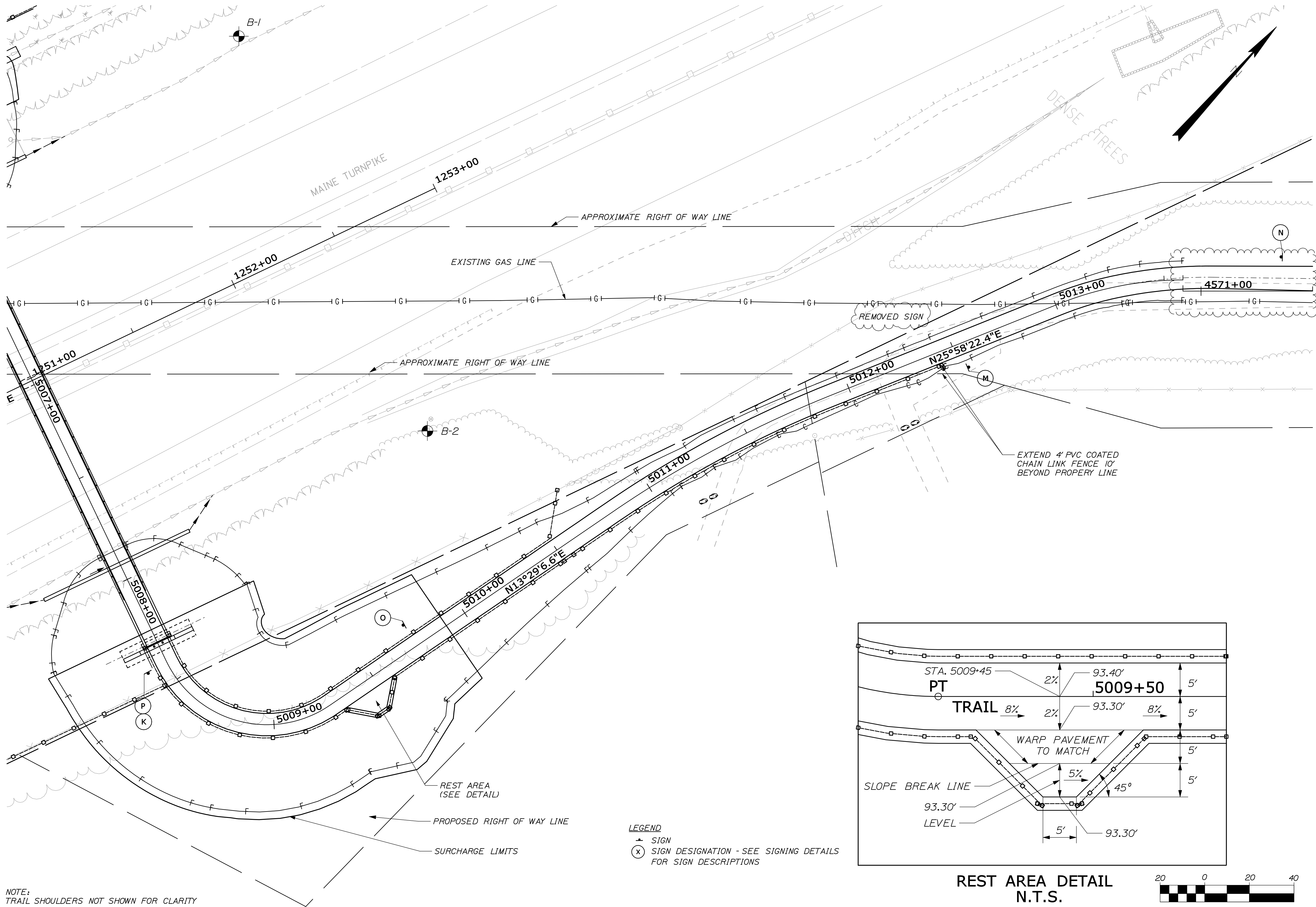
33

OF 69

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09			
CHECKED	MPC	06/09			
REVISIONS 1	LEM	06/09			
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

Date: 8/17/2009

Filename: 034_Turnpike bridge approach plan 2.dgn



NOTE:
TRAIL SHOULDERS NOT SHOWN FOR CLARITY

LEGEND

- ⬆ SIGN
- (X) SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS

REST AREA DETAIL
N.T.S.



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
TURNPIKE CROSSING PLAN II

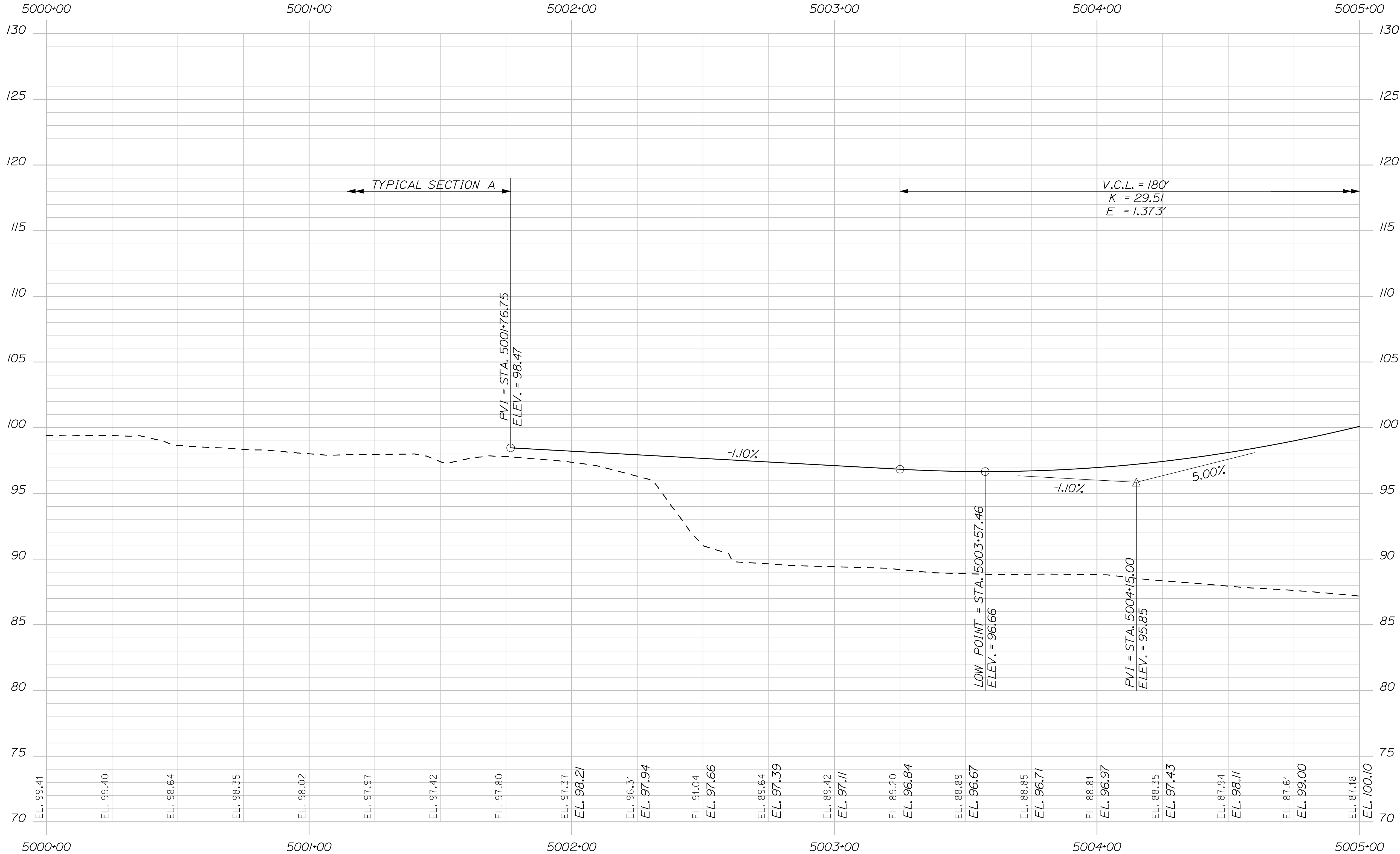
SHEET NUMBER

34

OF 69

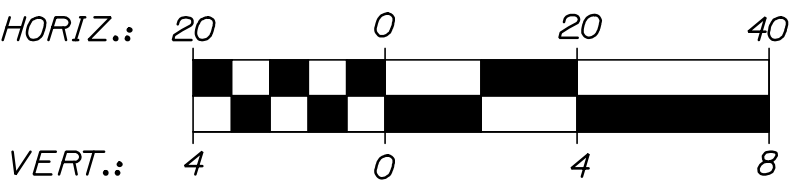
DESIGNED	DRAWN	CHECKED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
									06/09	AZ	06/09		6452	
									06/09	MPC	06/09			
									06/09	LEM	06/09			
									09/09	TRAIL LAYOUT	09/09			

HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155



PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT

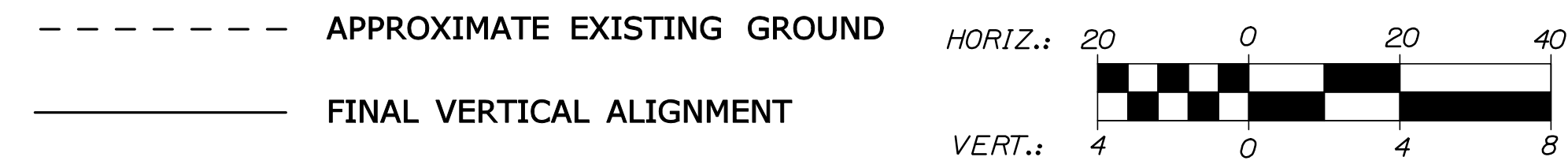


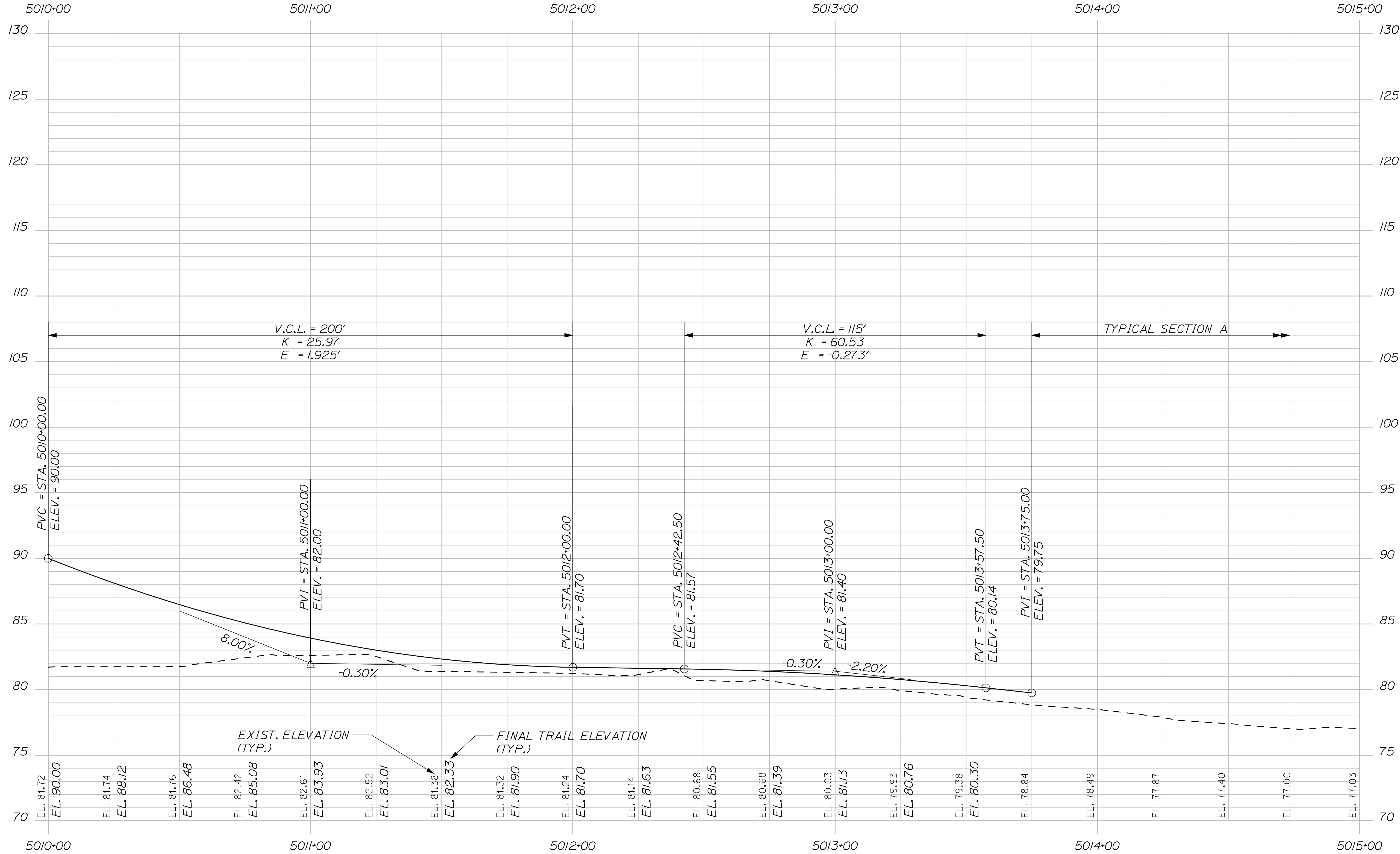
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
TURNPIKE CROSSING PROFILE I

SHEET NUMBER
35
OF 69

DESIGNED	BY	DATE	SIGNATURE
DRAWN	AZ	06/09	
CHECKED	MPC	06/09	
REVISIONS 1	LEM	06/09	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

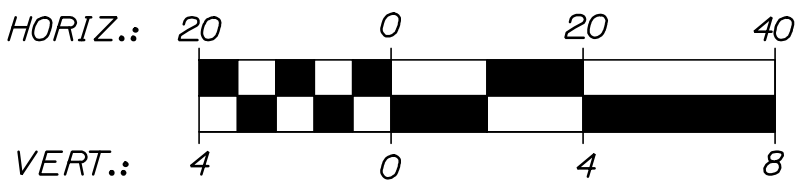
P.E. NUMBER	DATE
6452	





PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
TURNPIKE CROSSING PROFILE III

SHEET NUMBER

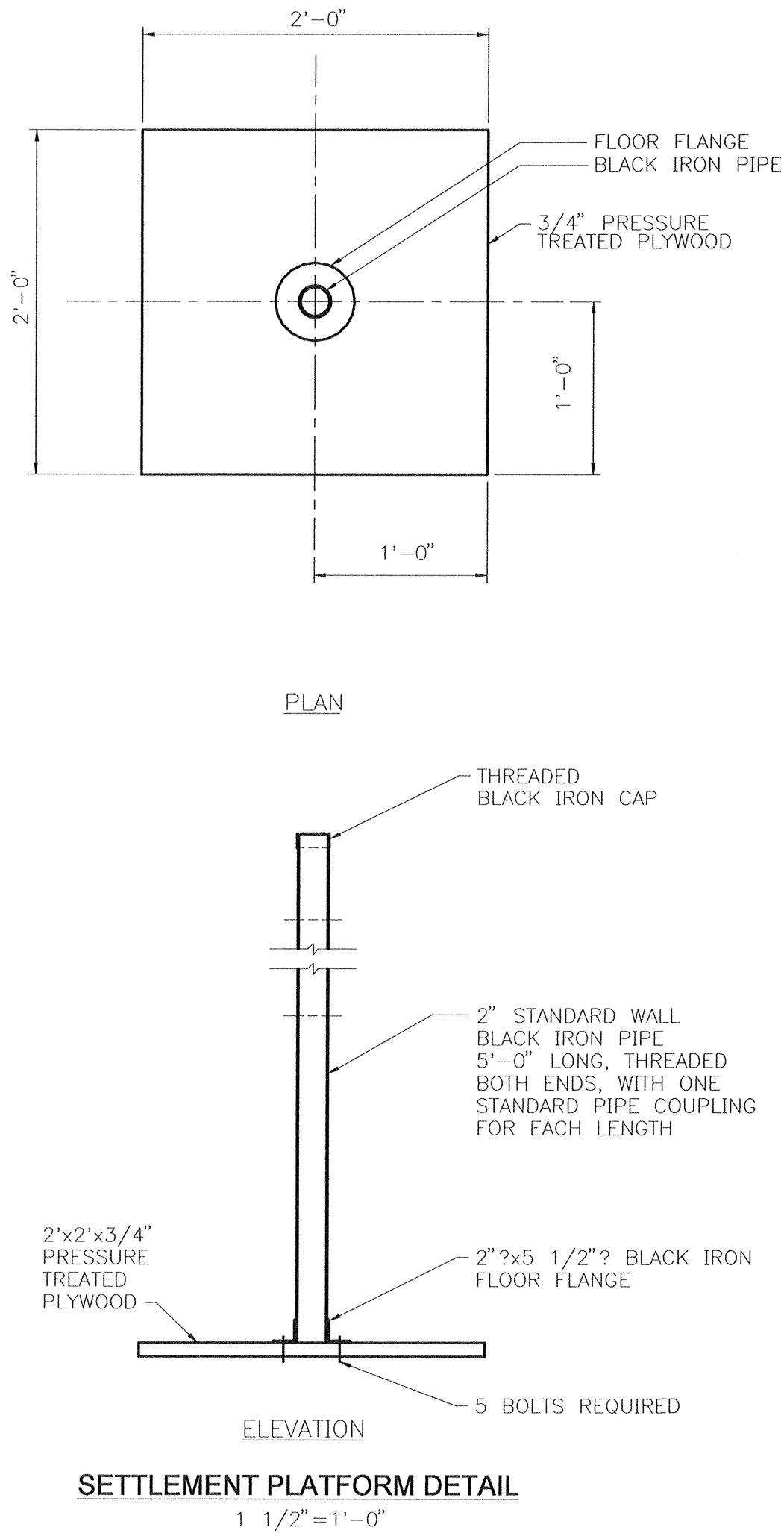
37

OF 69

HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09			
CHECKED	MFC	06/09			
REVISIONS 1	LEM	06/09		6452	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					





NOTE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SETTLEMENT PLATFORMS IN ACCORDANCE WITH THE SPECIAL PROVISION SECTIONS 646, SETTLEMENT PLATFORMS (GEOTECHNICAL).

HORIZONTAL MEMBERS
AND DIAGONAL BRACES
1"x4" SOUND LUMBER

NOTE:
ALL EXTERNAL SURFACES TO BE
PAINTED FLUORESCENT ORANGE.

PROTECTIVE RAILING DETAIL
FOR SETTLEMENT PLATFORMS
NOT TO SCALE

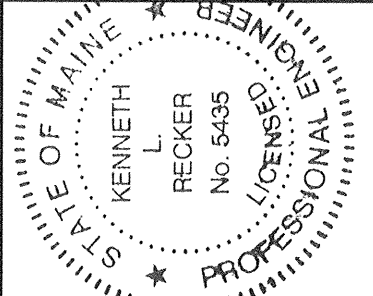
CORNER POSTS
2"x3"x4'-6"
SOUND LUMBER

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
SETTLEMENT PLATFORM DETAILS

SHEET NUMBER

39

OF 69



DESIGNED
DRAWN
CHECKED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
REVISIONS 5
REVISIONS 6

BY
KLR
AZ
KLR

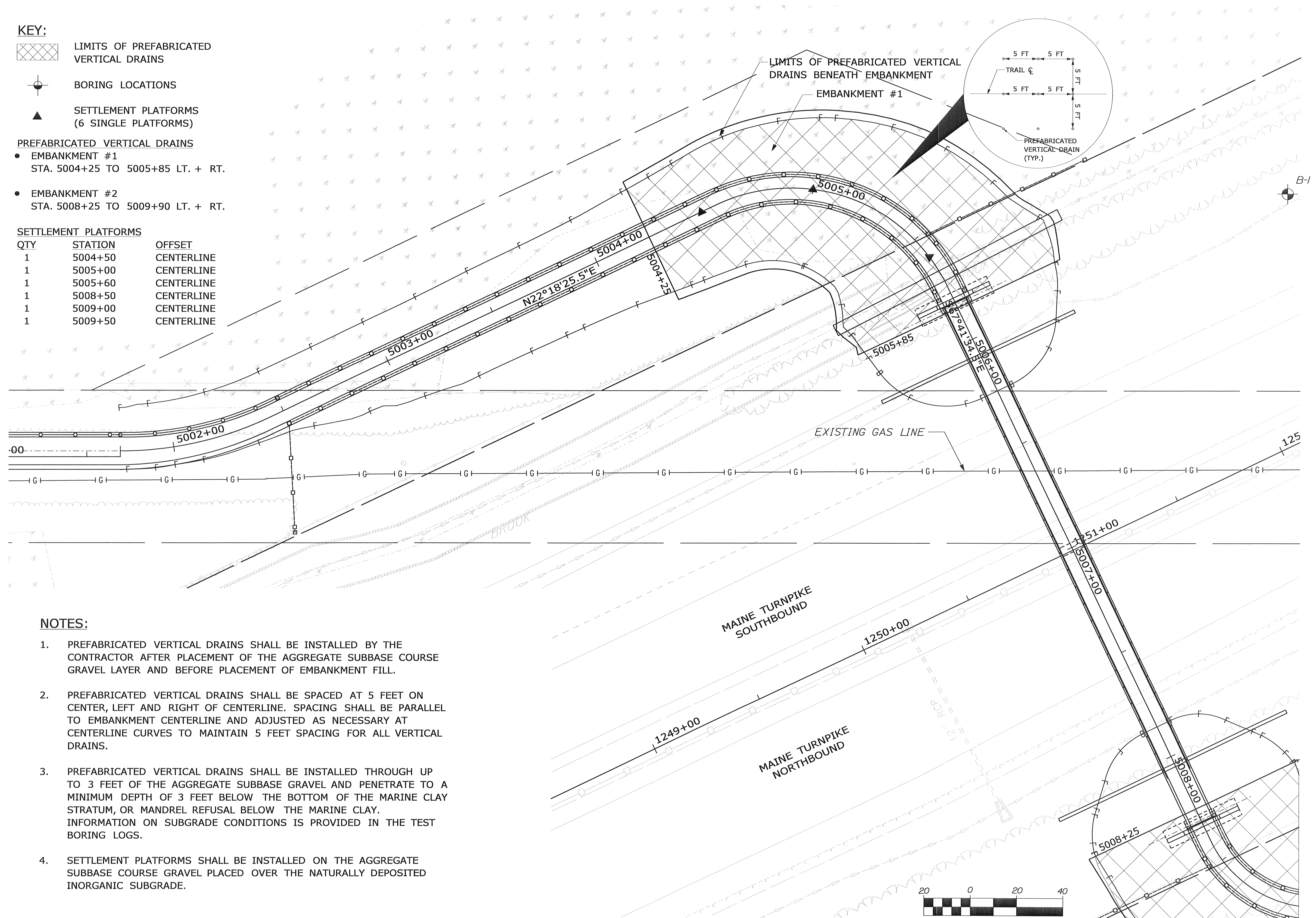
DATE
06/09
06/09
06/09

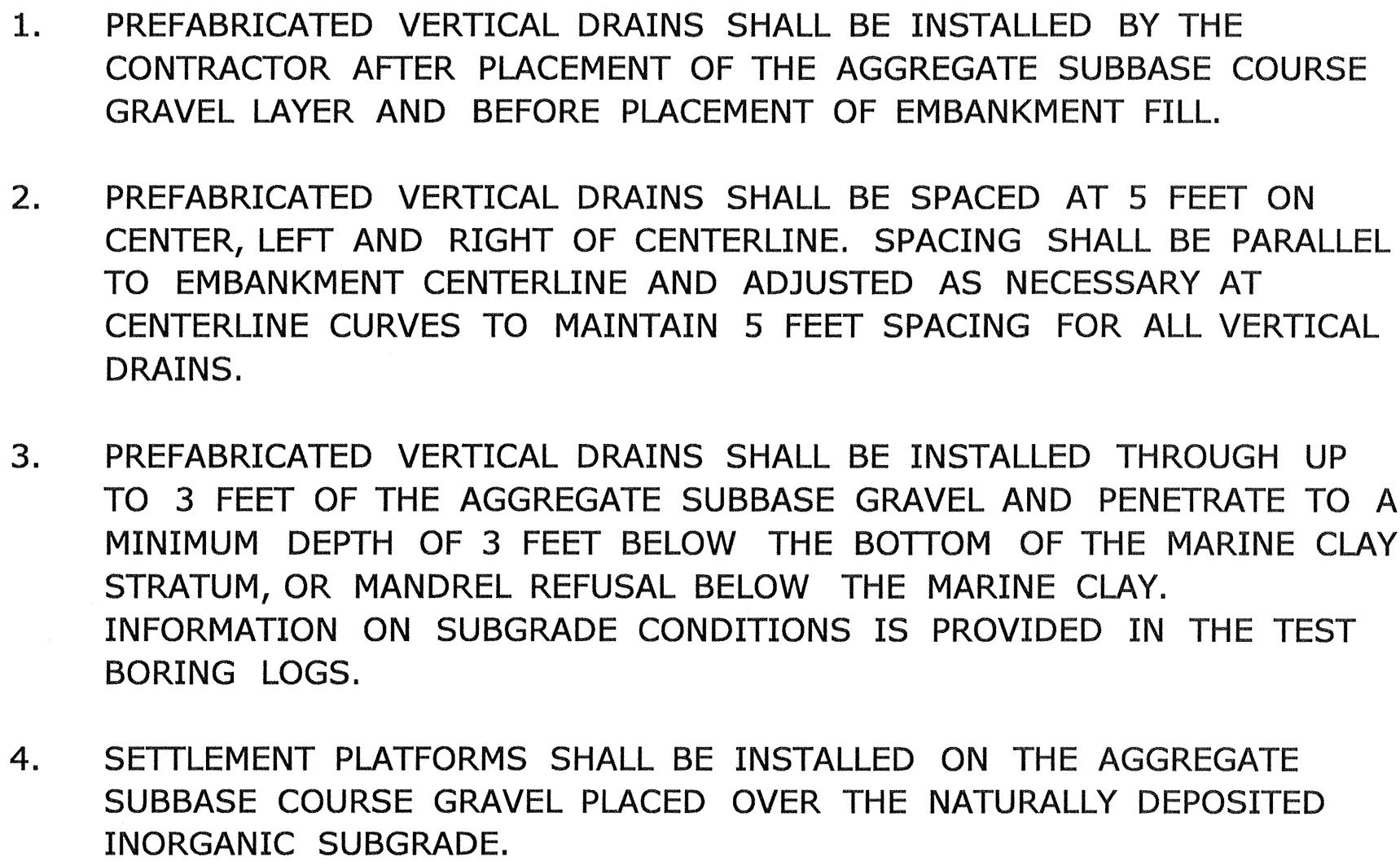
SIGNATURE
5435
P.E. NUMBER
5/19/09
DATE

Filename: 000IIPx-sisip-PREROBDebt1-20ssdele.dgn

QTY	STATION	OFFSET
1	5004+50	CENTERLINE
1	5005+00	CENTERLINE
1	5005+60	CENTERLINE
1	5008+50	CENTERLINE
1	5009+00	CENTERLINE
1	5009+50	CENTERLINE

1. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED BY THE CONTRACTOR AFTER PLACEMENT OF THE AGGREGATE SUBBASE COURSE GRAVEL LAYER AND BEFORE PLACEMENT OF EMBANKMENT FILL.
2. PREFABRICATED VERTICAL DRAINS SHALL BE SPACED AT 5 FEET ON CENTER, LEFT AND RIGHT OF CENTERLINE. SPACING SHALL BE PARALLEL TO EMBANKMENT CENTERLINE AND ADJUSTED AS NECESSARY AT CENTERLINE CURVES TO MAINTAIN 5 FEET SPACING FOR ALL VERTICAL DRAINS.
3. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED THROUGH UP TO 3 FEET OF THE AGGREGATE SUBBASE GRAVEL AND PENETRATE TO A MINIMUM DEPTH OF 3 FEET BELOW THE BOTTOM OF THE MARINE CLAY STRATUM, OR MANDREL REFUSAL BELOW THE MARINE CLAY. INFORMATION ON SUBGRADE CONDITIONS IS PROVIDED IN THE TEST BORING LOGS.
4. SETTLEMENT PLATFORMS SHALL BE INSTALLED ON THE AGGREGATE SUBBASE COURSE GRAVEL PLACED OVER THE NATURALLY DEPOSITED INORGANIC SUBGRADE.

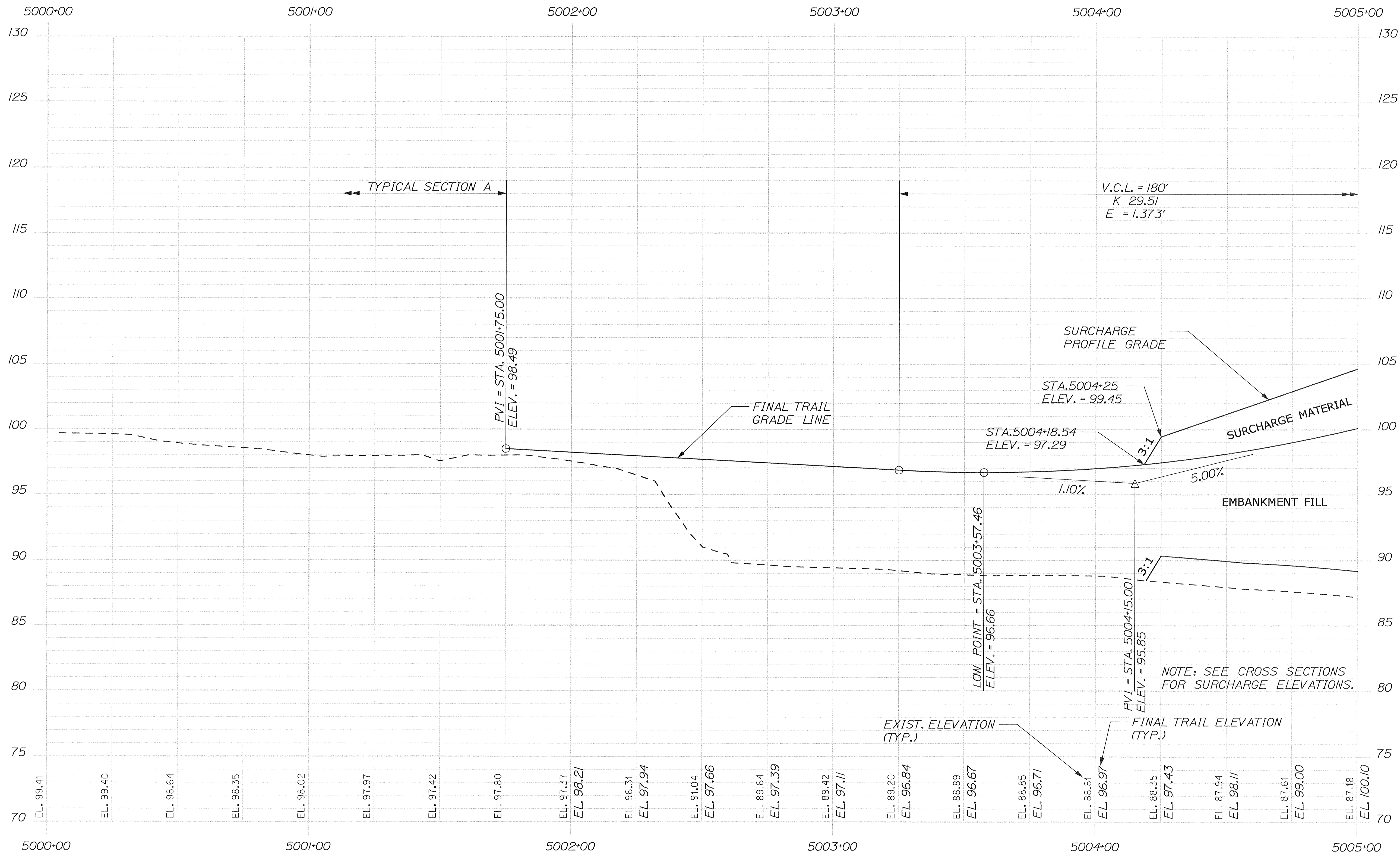




QTY	STATION	OFFSET
1	5004+50	CENTERLINE
1	5005+00	CENTERLINE
1	5005+60	CENTERLINE
1	5008+50	CENTERLINE
1	5009+00	CENTERLINE
1	5009+50	CENTERLINE

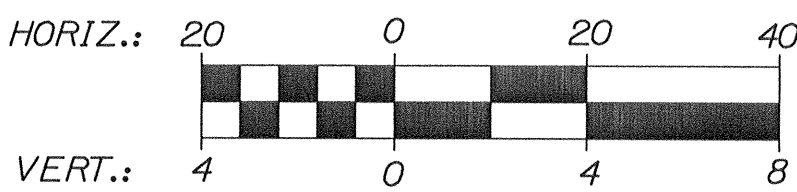
Date: 5/19/2009

Filename: 042-TP-x-sing-PRELOAD profile-3-20 scale.dgn



PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT



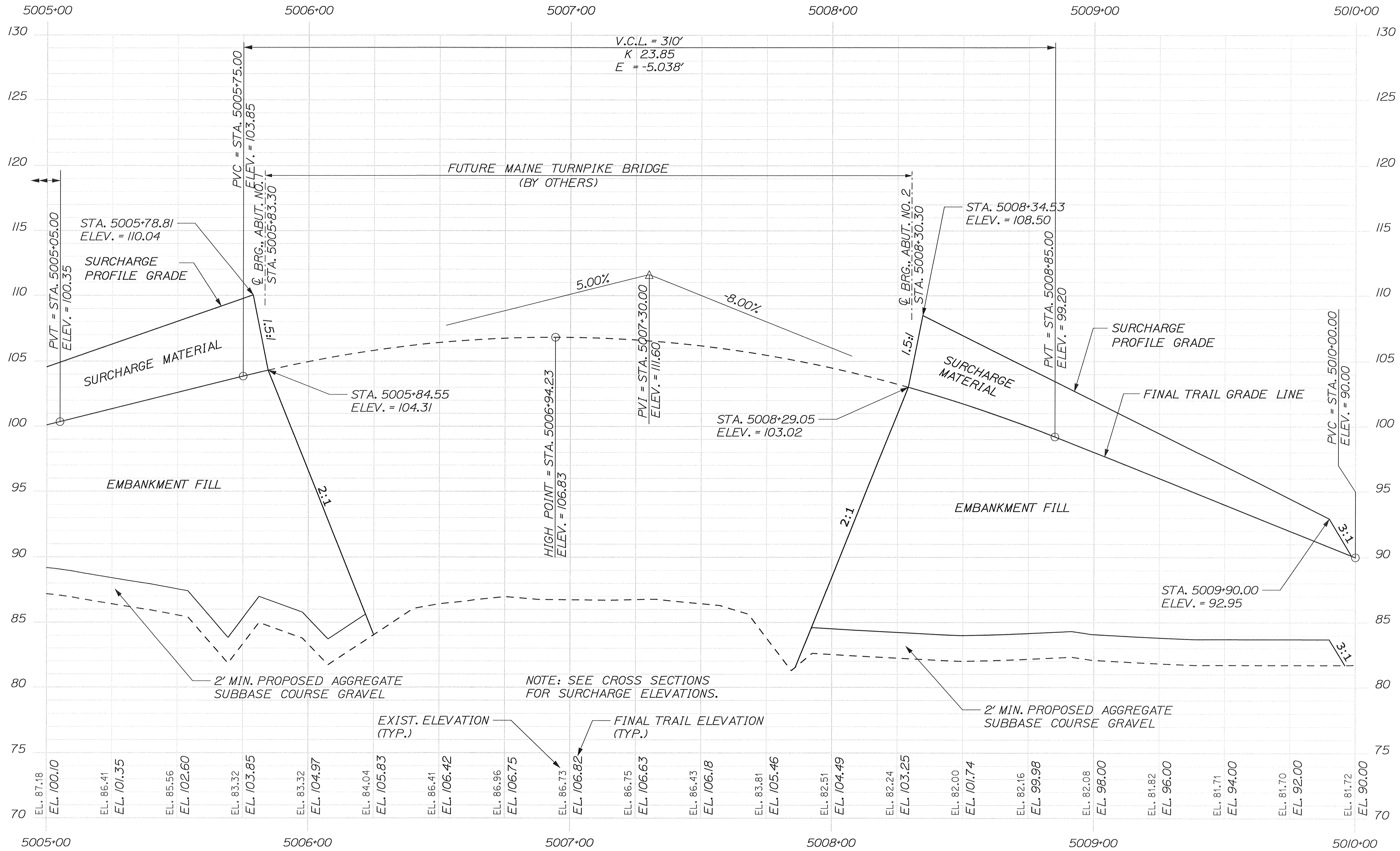
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
SURCHARGE PROFILE

Professional Engineer
State of Maine
Kenneth L. Recker
No. 5435
5/19/09
5435
DATE

DATE	BY	DESIGNED	DRAWN	CHECKED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6
06/09	KLR		AZ							
06/09	KLR									

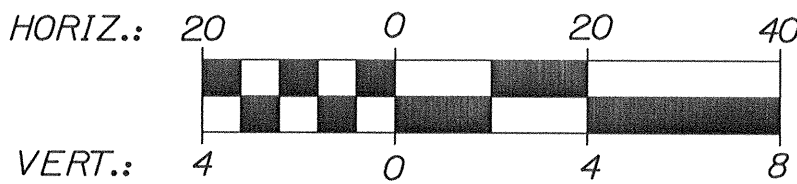
Date: 5/19/2009

Filename: 043_TF-x-sing-PRELOAD profile1-3-20 scale.dgn



PROFILE

----- APPROXIMATE EXISTING GROUND
———— FINAL VERTICAL ALIGNMENT



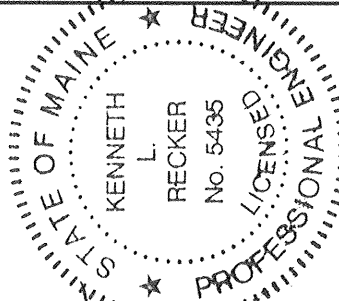
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

SURCHARGE PROFILE

SHEET NUMBER

43

OF 69

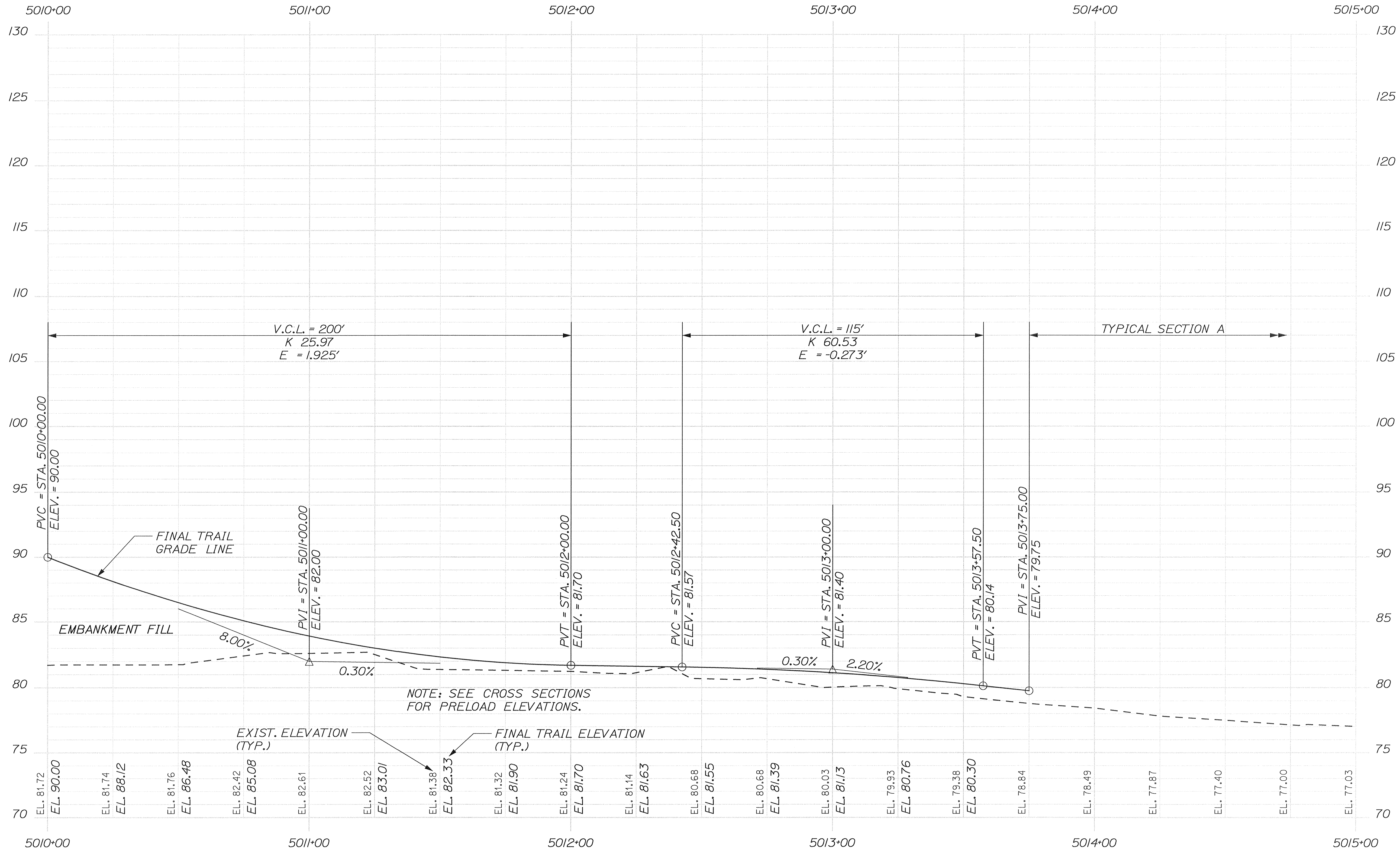


SIGNATURE: *Kenneth L. Recker*
P.L. NUMBER: 5435
DATE: 5/19/09

DATE	BY	DESIGNED	DRAWN	CHECKED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6
06/09	KLR									
06/09	AZ									
06/09	KLR									

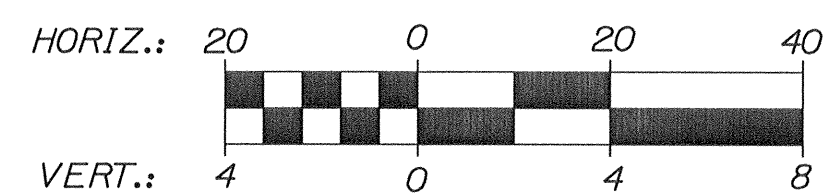
Date:5/19/2009

Filename: 044_TP-x-sing-PRELOAD_profile1-3-20_scd.e.dgn



PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT



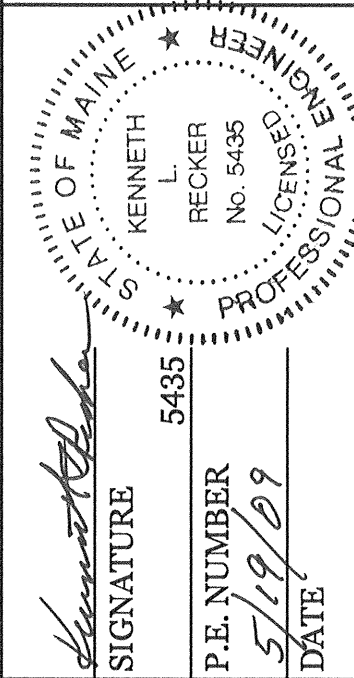
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

SURCHARGE PROFILE

SHEET NUMBER

44

OF 69



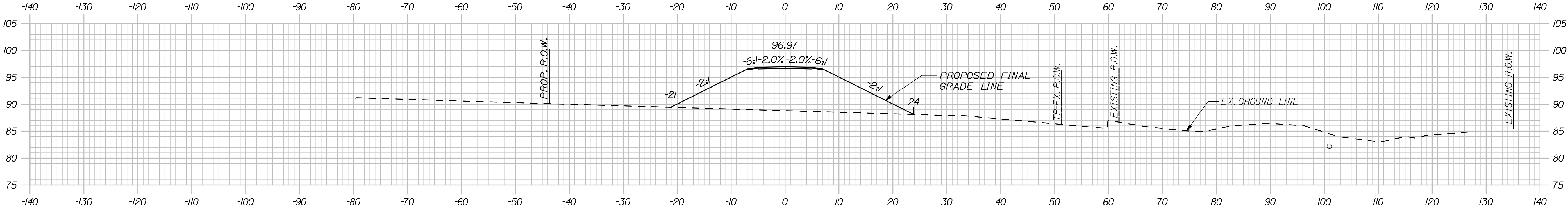
BY	DATE
DESIGNED	06/09
DRAWN	06/09
CHECKED	06/09
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
REVISIONS 5	
REVISIONS 6	

Sebago Technics
Engineering Experts You Can Build On
One Oyster Street
Portland, ME 04101
Tel (207) 885-0277

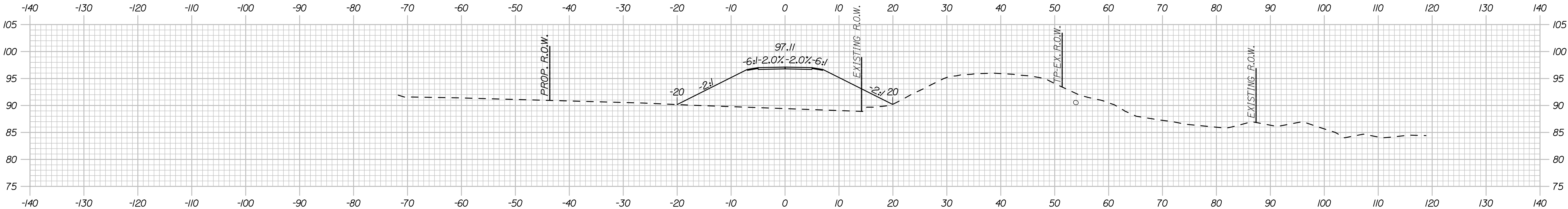
Username: mcundiff

Date:8/17/2009

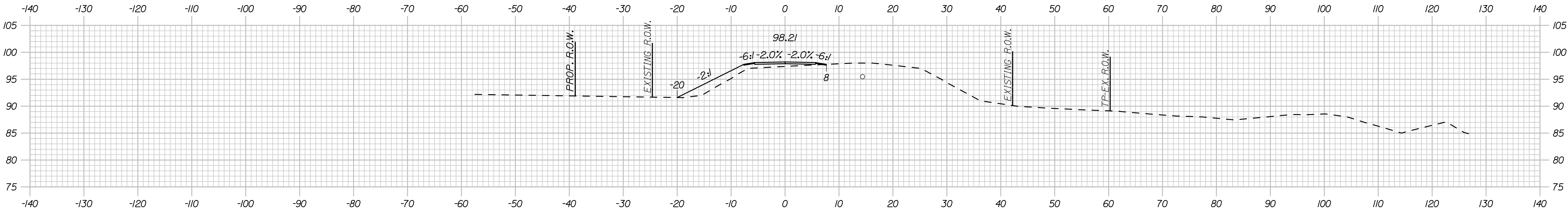
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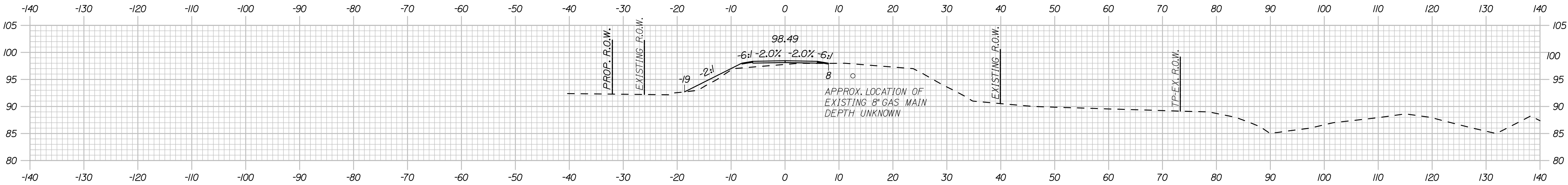
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5003+00.00



5002+00.00



5001+75.00

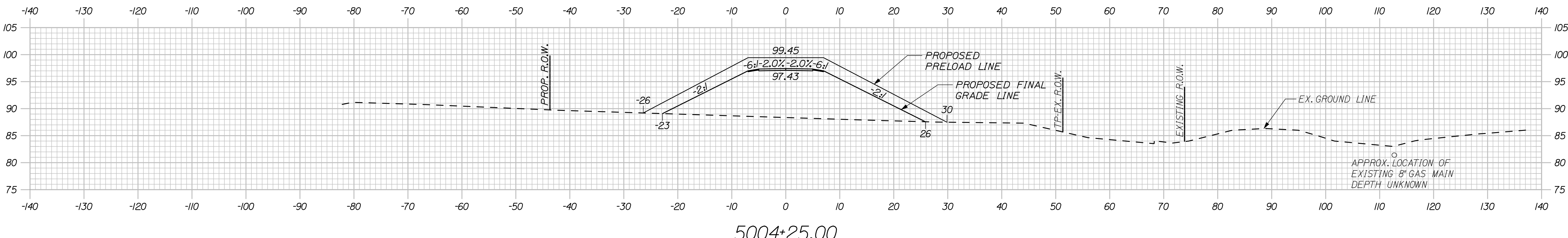
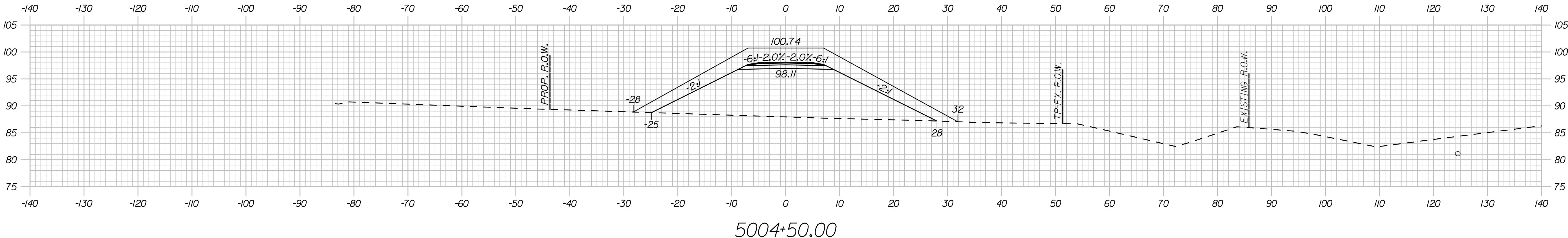
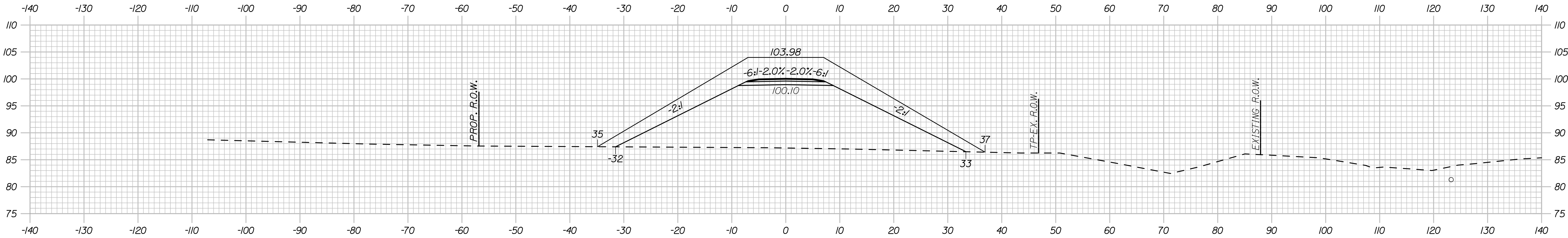
DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/08			
CHECKED	MPC	06/08			
REVISIONS 1	LEM	06/08		6452	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
TURNPIKE CROSSING CROSS SECTIONS

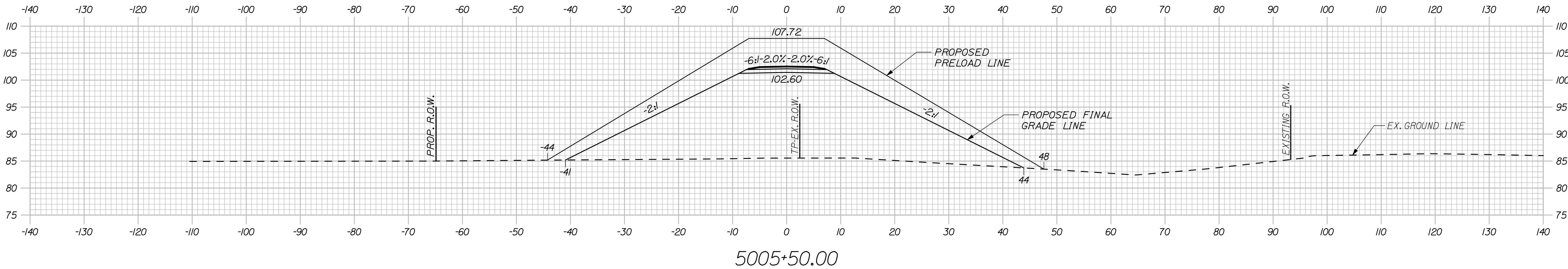
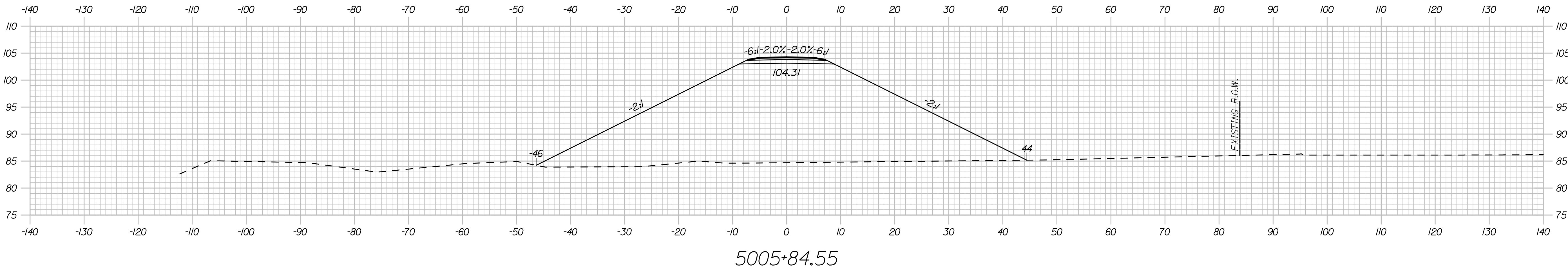
Date:8/17/2009

Username: mundiff

Filename: 046_Turnpike bridge approach cross sections.dwg



DESIGNED	DATE	BY	SIGNATURE	P.E. NUMBER	DATE
AZ	06/08	AZ			
MPC	06/08	MPC			
LEM	06/08	LEM			
CHECKED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					



DESIGNED	BY	DATE	SIGNATURE
DRAWN	AZ	06/08	
CHECKED	MFC	06/08	
REVISIONS 1	LEM	06/08	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

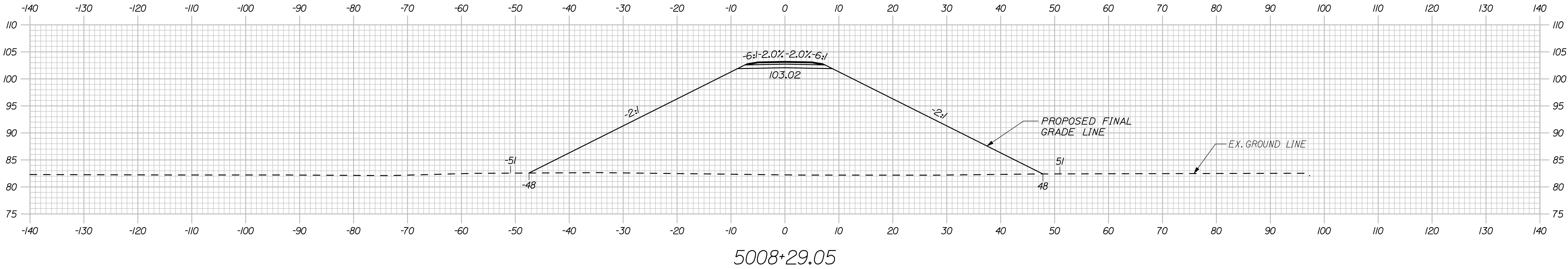
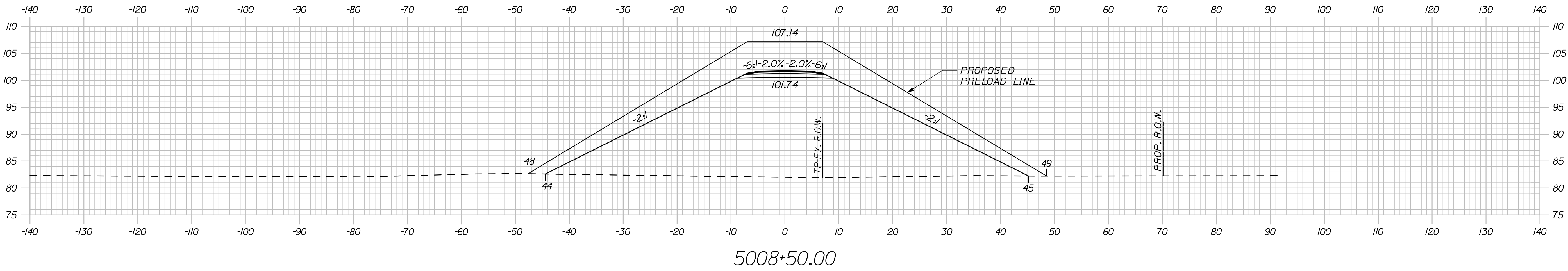
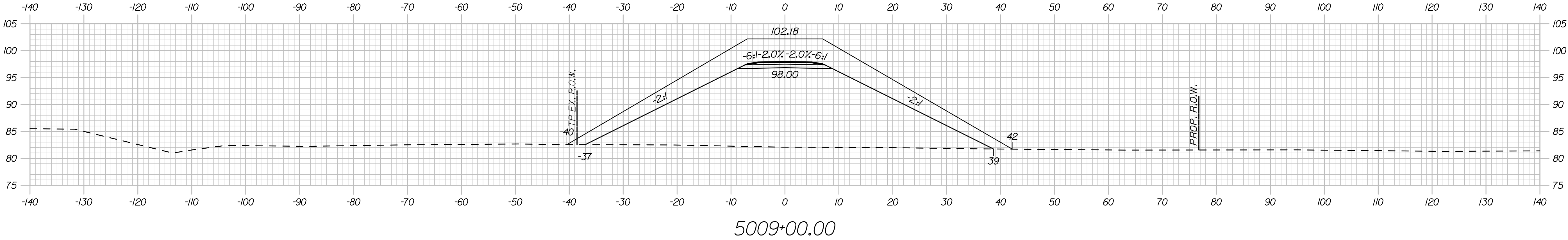
P.E. NUMBER 6452
DATE

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
TURNPIKE CROSSING CROSS SECTIONS

Date:8/17/2009

Username: moundiff

Filename: 048_Turnpike bridge approach cross sections.dgn



DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09			
CHECKED	MFC	06/09			
REVISIONS 1	LEM	06/09			
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

DATE	BY	
06/09	AZ	DESIGNED
06/09	MFC	DRAWN
06/09	LEM	CHECKED
6452		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		REVISIONS 5
		REVISIONS 6
		SIGNATURE
		P.E. NUMBER
		DATE

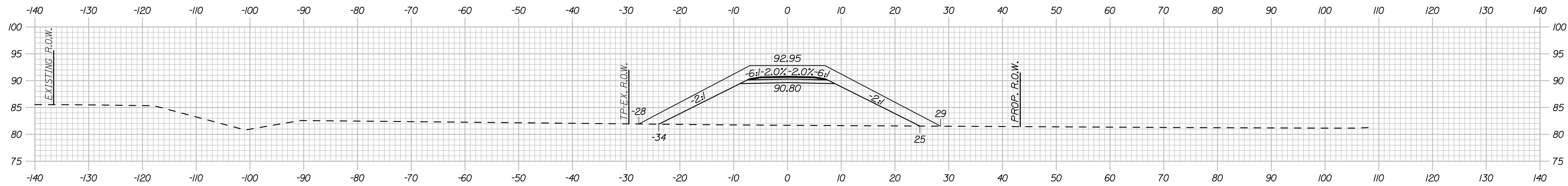
**EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE**

TURNPIKE CROSSING CROSS SECTIONS

SHEET NUMBER

49

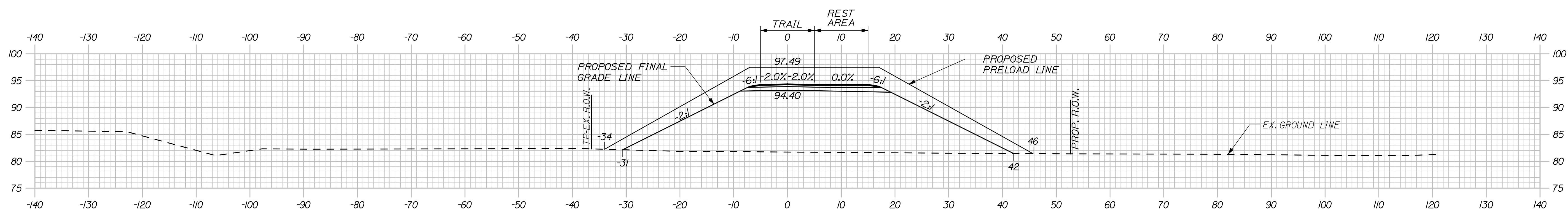
OF 69



5009+90.00

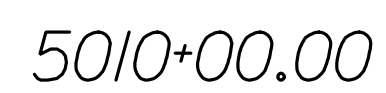
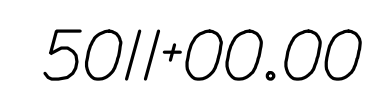
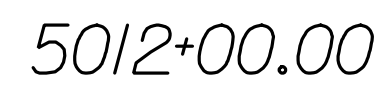
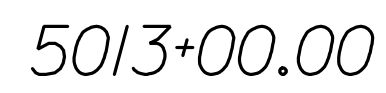
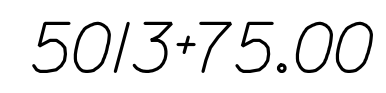


5009+50.00



5009+45.00

Date: 8/17/2009



2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

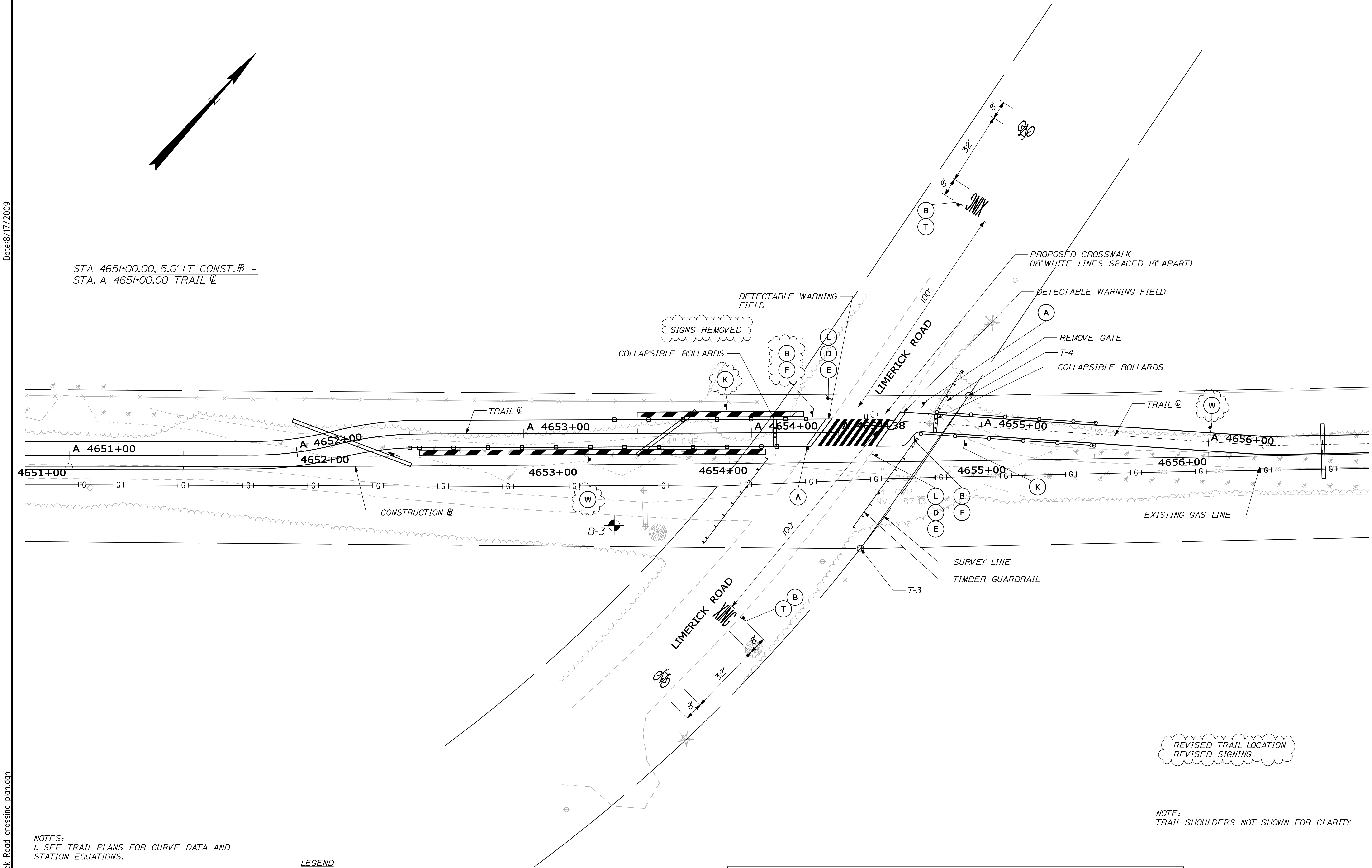
EASTERN TRAIL MANAGEMENT DISTRICT
 MULTI-USE TRAIL CONSTRUCTION
 KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
 TURNPIKE CROSSING CROSS SECTIONS

OF 69

Sta. 5010+00.00 to Sta. 5013+58.42

Date: 8/17/2009

Filename: 051_Limerick Road crossing plan.dgn



STA. 4651+00.00, 5.0' LT CONST. \mathbb{B} =
STA. A 4651+00.00 TRAIL \mathbb{C}

NOTES:
1. SEE TRAIL PLANS FOR CURVE DATA AND STATION EQUATIONS.
2. SEE DETAIL SHEET FOR MORE INFORMATION ON COLLAPSIBLE BOLLARDS AND DETECTABLE WARNING FIELDS.

LEGEND
 \blacktriangle SIGN
 \odot SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS

SURVEY ALIGNMENT DATA						
NO.	STATION	OFFSET	BASELINE	NORTH COORD.	EAST COORD.	REMARKS
T-3	4654+46.709	37.999 RT.	CONSTRUCTION \mathbb{B}	218820.6269	942671.5204	PROPERTY MON.
T-4	4654+94.959	28.429 LT.	CONSTRUCTION \mathbb{B}	218901.0692	942655.0717	PROPERTY PIN



HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED
AZ

DRAWN
MPC

CHECKED
LEM

REVISIONS 1
TRAIL/SIGNING

REVISIONS 2

REVISIONS 3

REVISIONS 4

REVISIONS 5

REVISIONS 6

DATE
06/09

DATE
06/09

DATE
06/09

DATE
08/09

SIGNATURE

P.E. NUMBER
6452

DATE

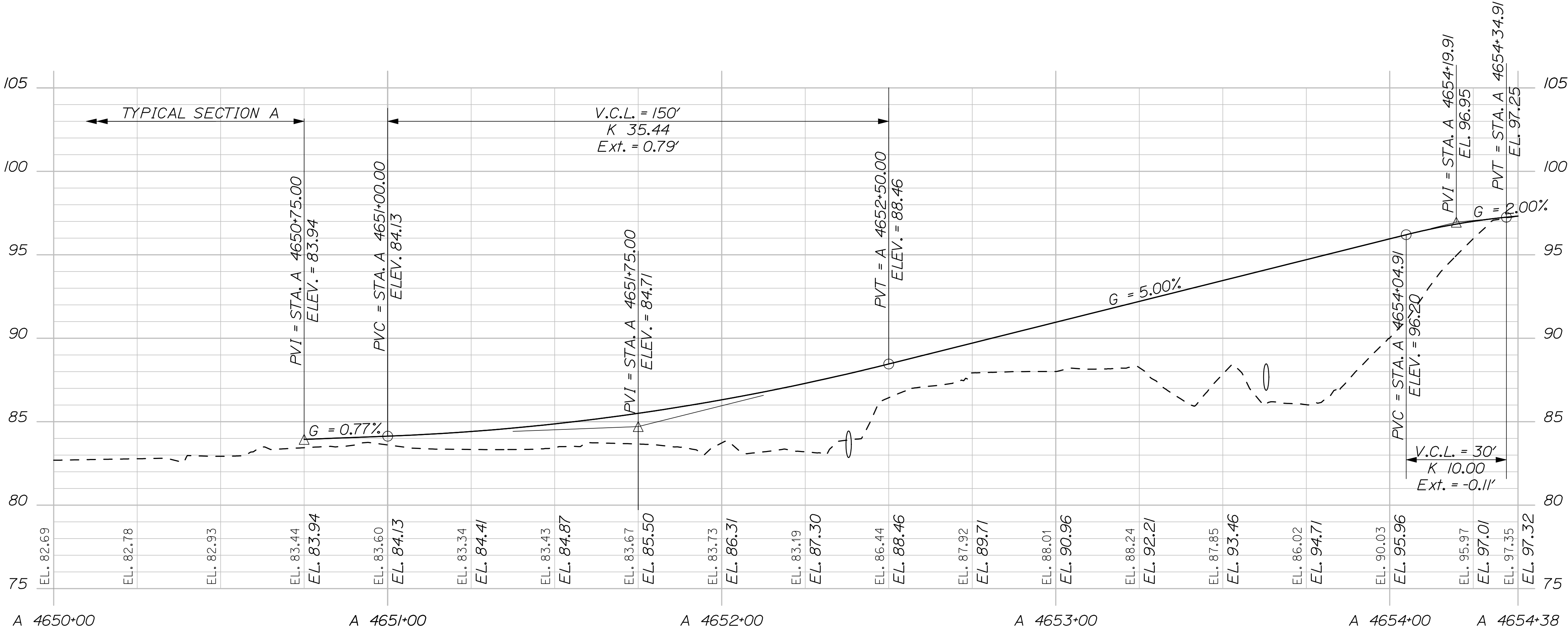
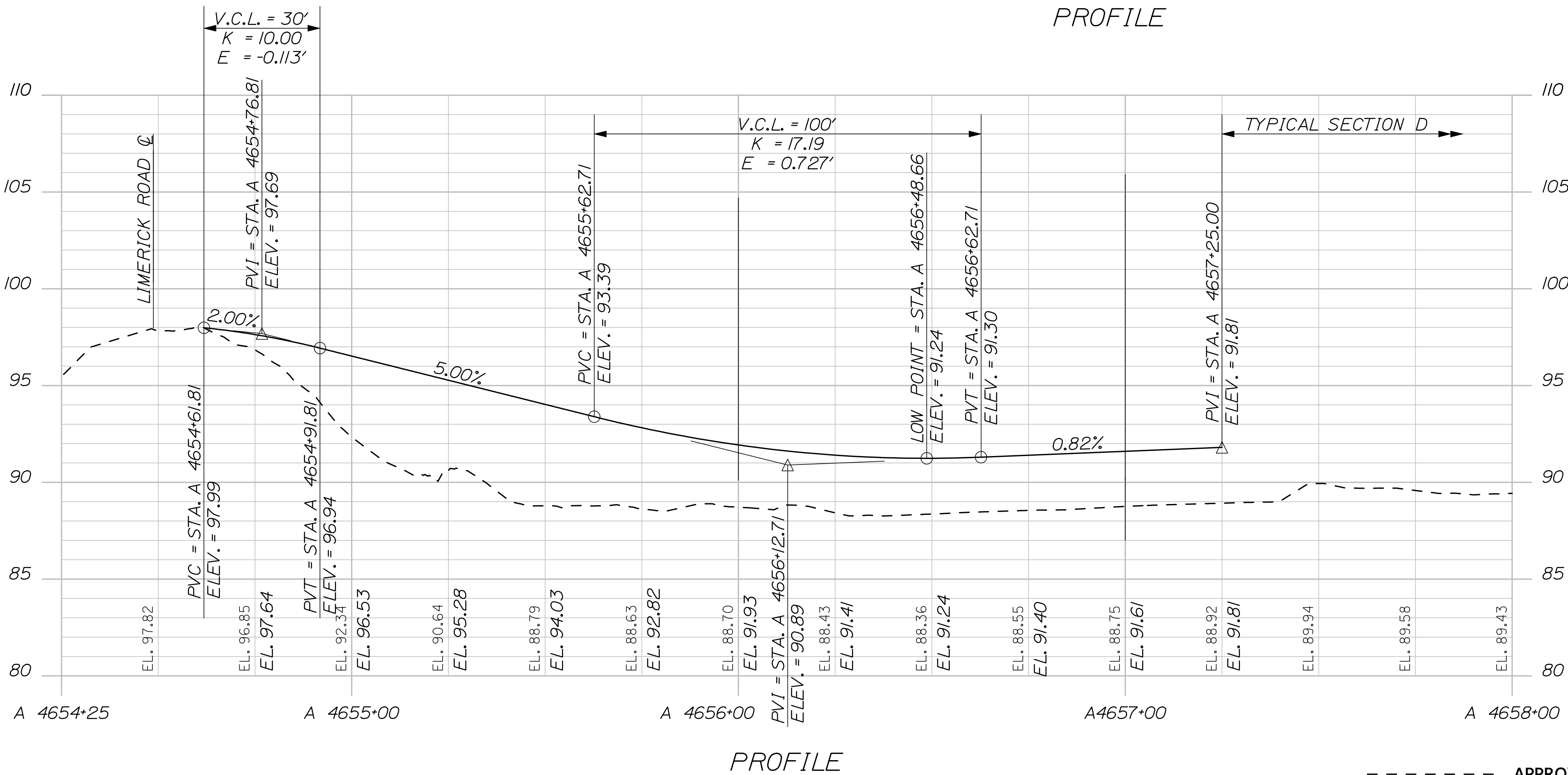
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

LIMERICK ROAD CROSSING PLAN

SHEET NUMBER

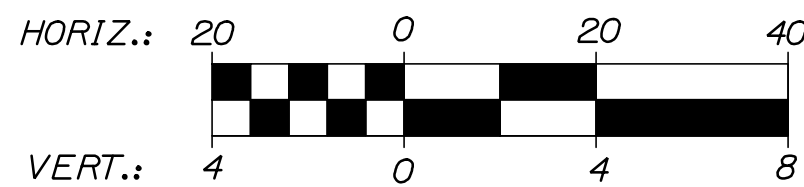
51

OF 69



----- APPROXIMATE EXISTING GROUND

———— FINAL VERTICAL ALIGNMENT



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
LIMERICK ROAD CROSSING PROFILE

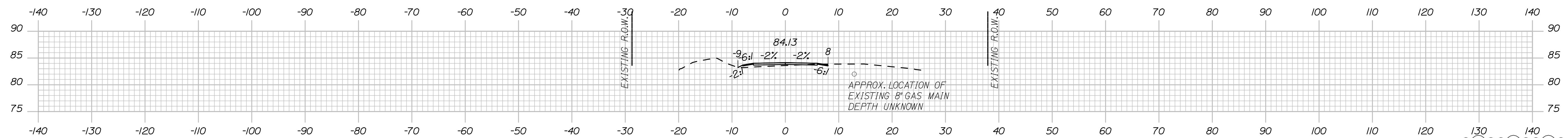
SHEET NUMBER
52
OF 69

DESIGNED	BY	DATE	SIGNATURE
DRAWN	AZ	06/09	
CHECKED	MFC	06/09	
REV. PROFILE	LEW	06/09	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

6452

P.E. NUMBER

DATE



A 465/+00.00

EXISTING R.O.W. 39

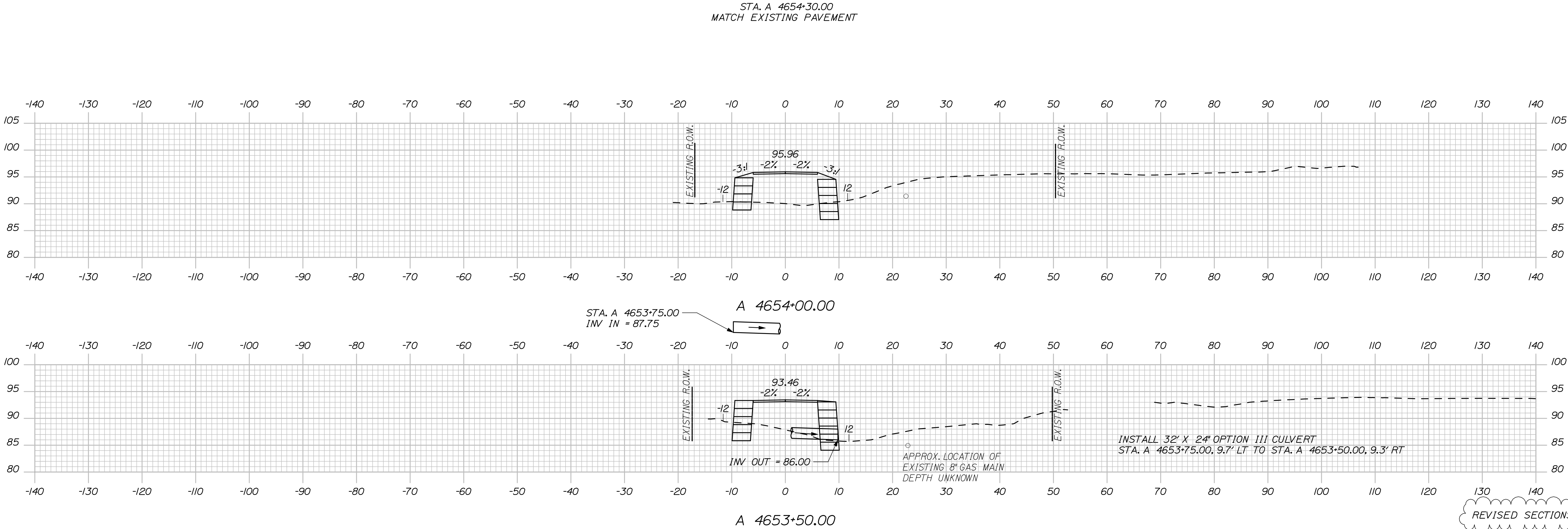
EXISTING R.O.W. 40'

84.13
-96.1 -2% -2

INSTALL 56' X 24" OPTION III CULVERT
STA. A 4652+50.00, 13.5' RT TO STA. A 4652+00.00, 15.2' LT INV OUT = 82.25

APPROX. LOCATION OF
EXISTING 8" GAS MAIN
DEPTH UNKNOWN

REVISED SECTIONS



DESIGNED	BY	DATE	SIGNATURE
DRAWN	AZ	06/09	
CHECKED	MPC	06/09	
REV. ALIGNMENT	LEM	06/09	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

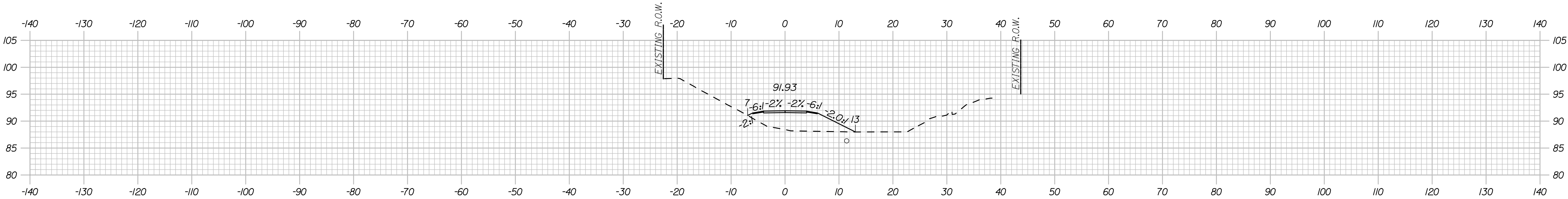
P.E. NUMBER	DATE
6452	

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
LIMERICK ROAD CROSSING CROSS SECTIONS

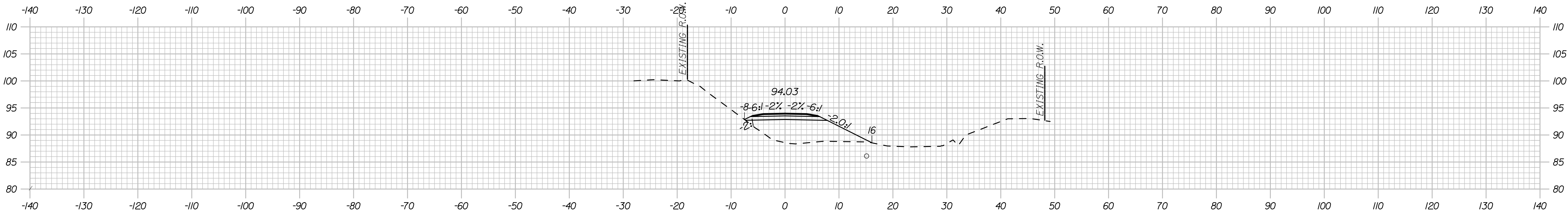
Username: mcardiff

Date:8/17/2009

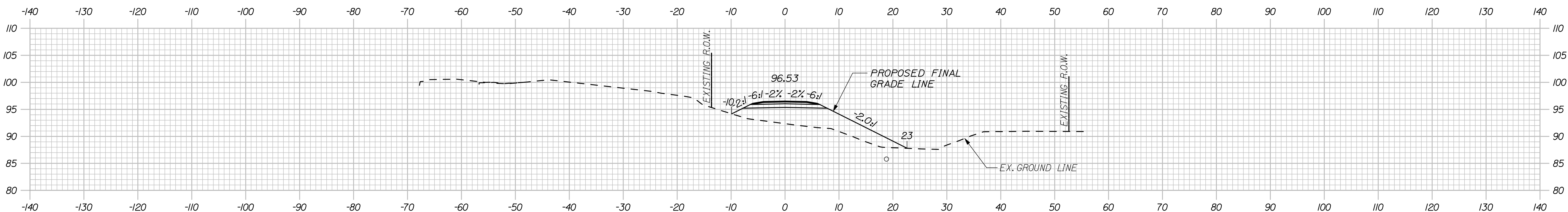
Filename: 055_Limerick Road crossing cross section\055\Station BRIDGE



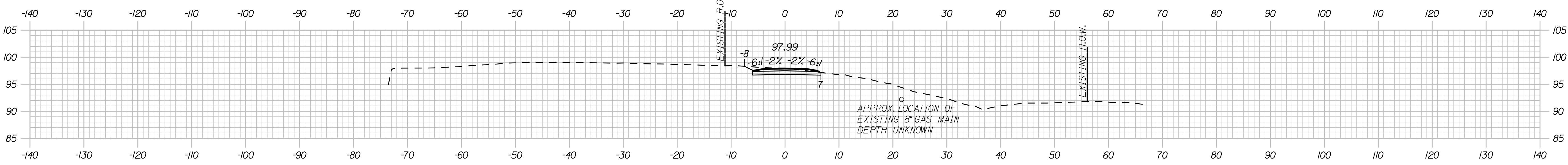
A 4656+00.00



A 4655+50.00

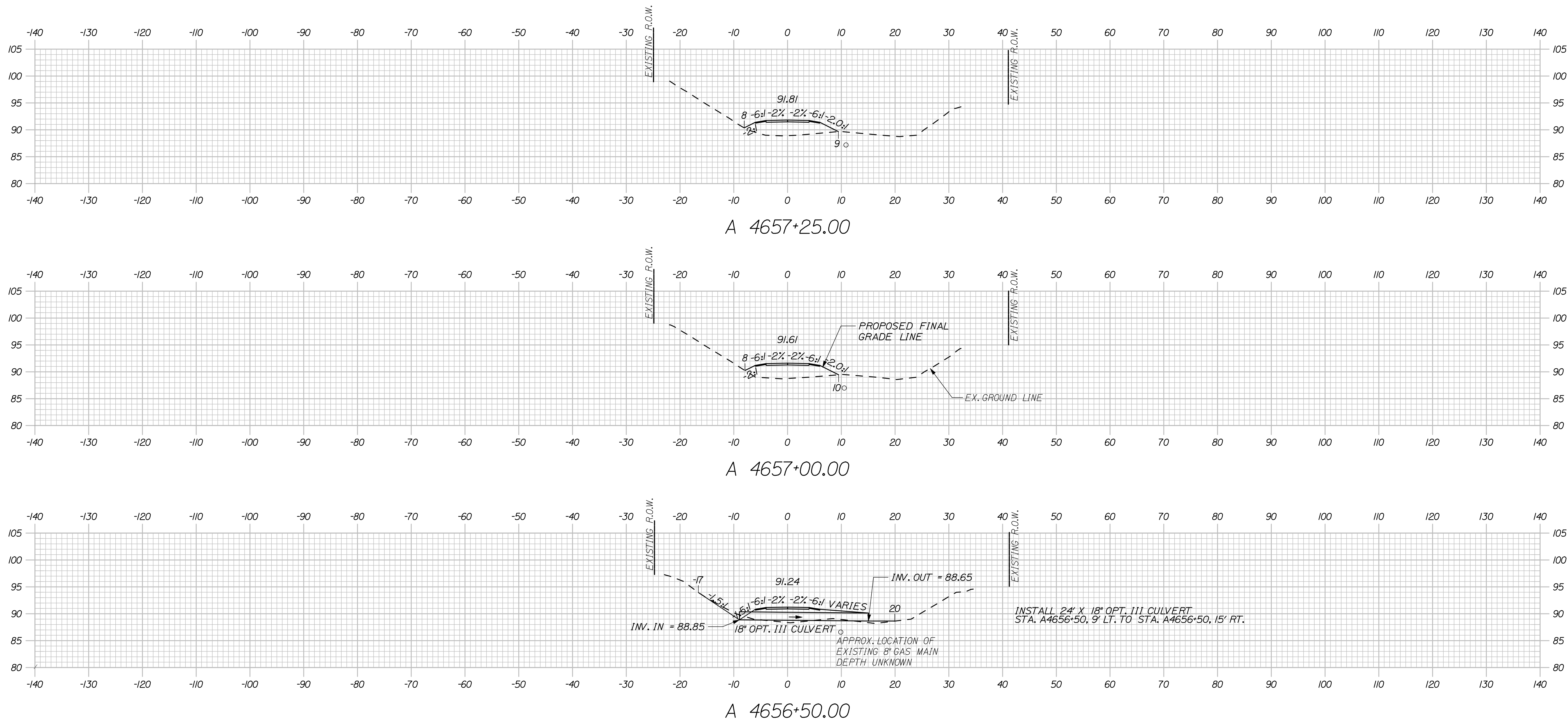


A 4655+00.00

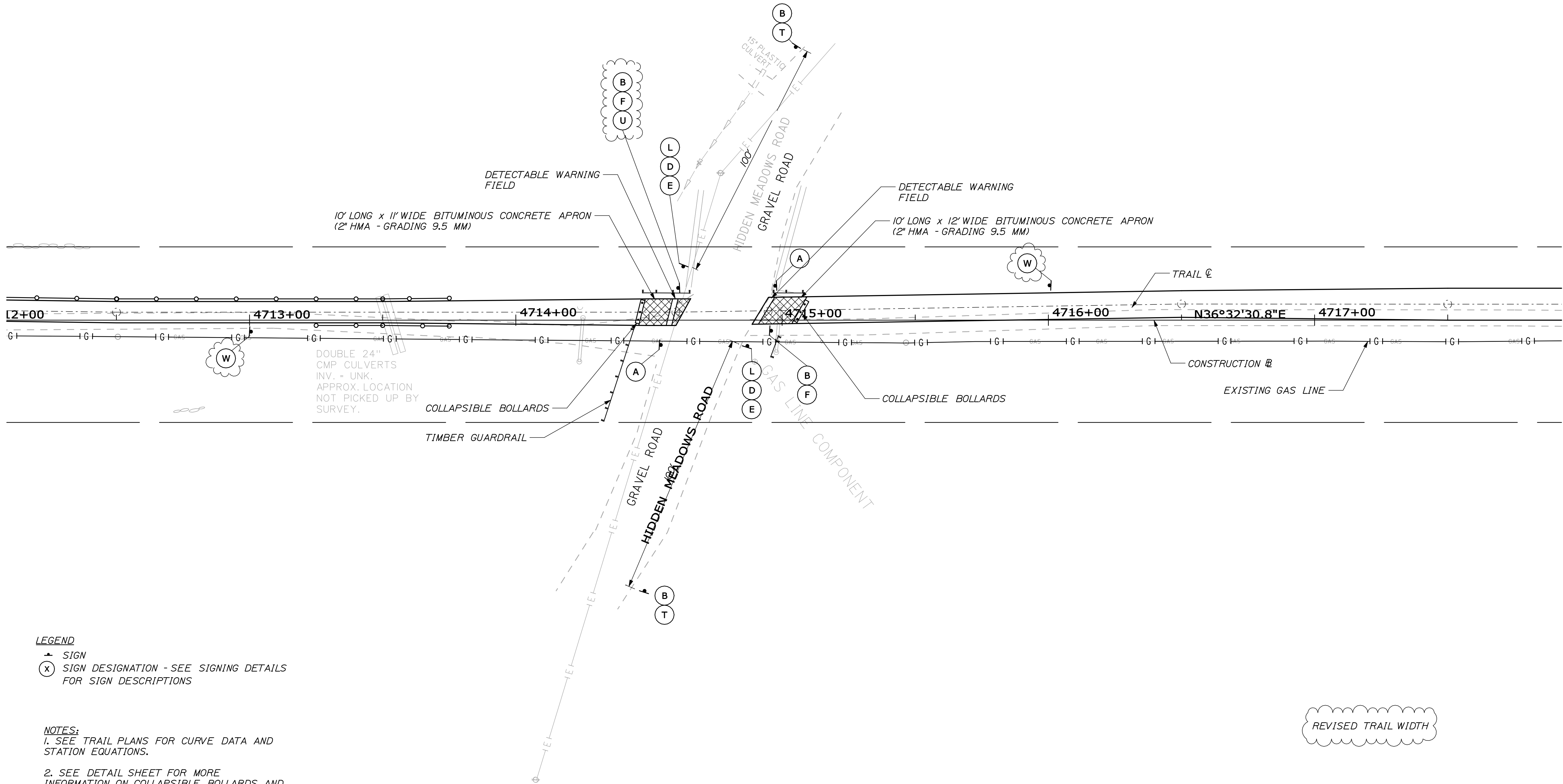


A 4654+62

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	AZ	06/09			
CHECKED	MPC	06/09			
REVISIONS 1	LEM	06/09		6452	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					



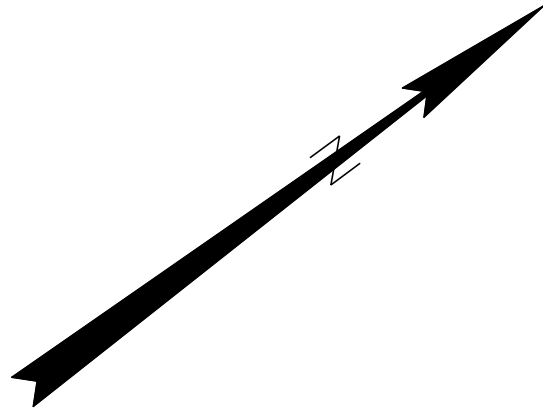
DESIGNED	AZ	06/09	SIGNATURE	6452
DRAWN	MPC	06/09		
CHECKED	LEM	06/09		
REVISIONS 1	DRAMAQE	08/09	P.E. NUMBER	
REVISIONS 2				
REVISIONS 3				
REVISIONS 4			DATE	
REVISIONS 5				



- LEGEND**
- ▲ SIGN
 - (X) SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS

- NOTES:**
- SEE TRAIL PLANS FOR CURVE DATA AND STATION EQUATIONS.
 - SEE DETAIL SHEET FOR MORE INFORMATION ON COLLAPSIBLE BOLLARDS AND DETECTABLE WARNING FIELDS.

NOTE:
TRAIL SHOULDERS NOT SHOWN FOR CLARITY



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDEFORD, MAINE
HIDDEN MEADOWS ROAD CROSSING PLAN

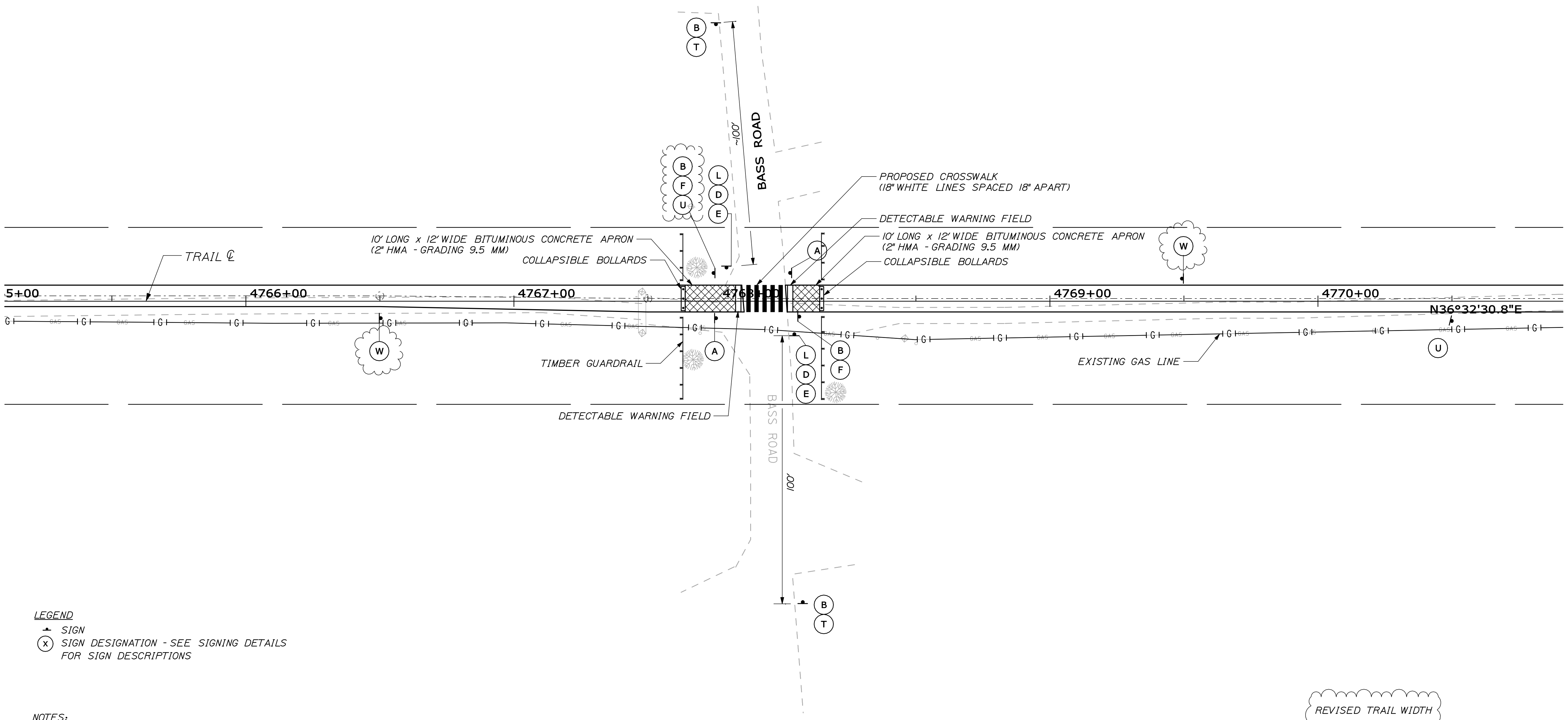
SHEET NUMBER
57
OF 69

DESIGNED	BY	DATE	SIGNATURE
DRAWN	AZ	06/09	
CHECKED	MPC	06/09	
REVISIONS 1	LEM	06/09	
REVISIONS 2	TRAIL ALIGNMENT	08/09	
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

P.E. NUMBER	DATE
6452	

Date: 8/17/2009

Filename: 058_Bass Road plan crossing plan.dgn



LEGEND
▲ SIGN
⊗ SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS

NOTES:
1. SEE TRAIL PLANS FOR CURVE DATA AND STATION EQUATIONS.
2. SEE DETAIL SHEET FOR MORE INFORMATION ON COLLAPSIBLE BOLLARDS AND DETECTABLE WARNING FIELDS.

NOTE:
TRAIL SHOULDERS NOT SHOWN FOR CLARITY



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
BASS ROAD CROSSING PLAN

SHEET NUMBER
58
OF 69

DESIGNED	BY	DATE	SIGNATURE
AZ	AZ	06/09	
DRAWN	BY	DATE	SIGNATURE
MFC	MFC	06/09	
CHECKED	BY	DATE	SIGNATURE
LEM	LEM	06/09	
REVISIONS 1	TRAIL ALIGNMENT	DATE	P.E. NUMBER
REVISIONS 2			6452
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155



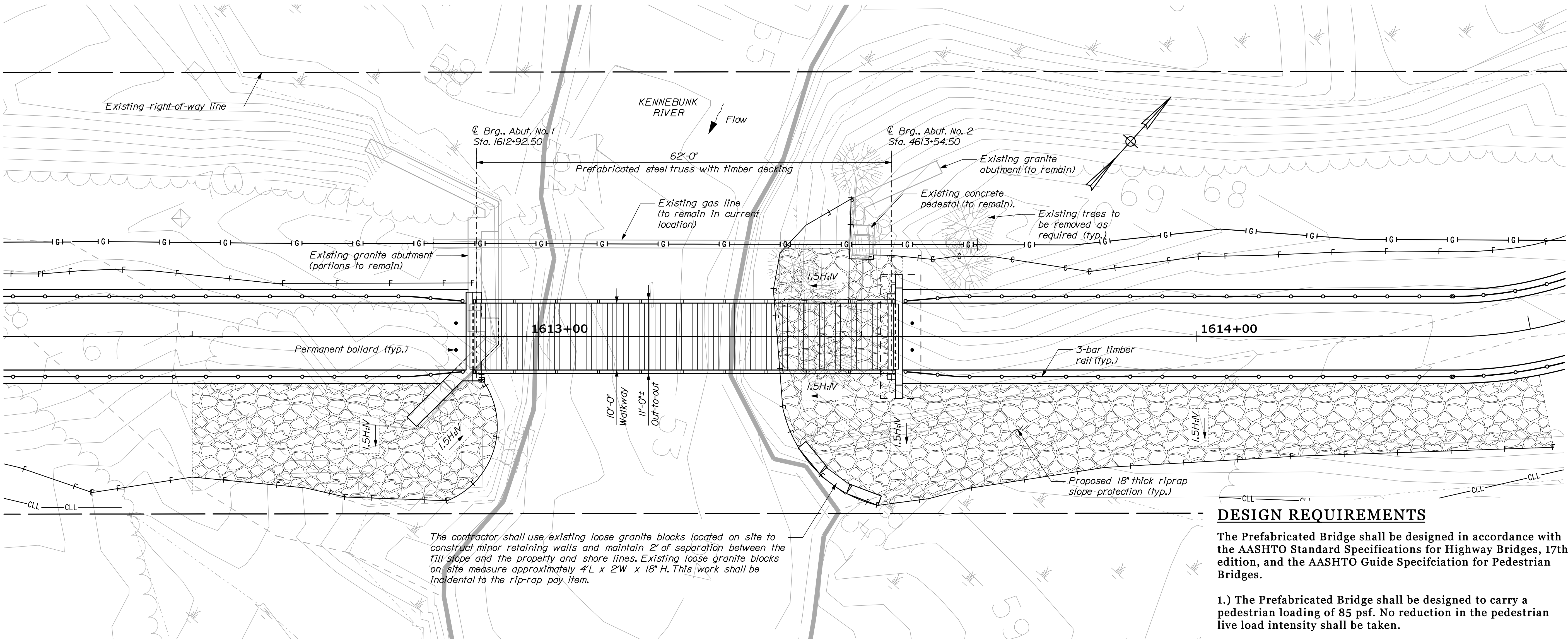
SURVEY ALIGNMENT DATA						
NO.	STATION	OFFSET	BASELINE	NORTH COORD.	EAST COORD.	REMARKS
T-3	4857+44.260	1.820 RT.	CONSTRUCTION B	235056.3274	954851.926	PK NAIL IN PAV.
T-4	4857+57.437	26.771 LT.	CONSTRUCTION B	235083.9374	954836.0681	PROPERTY PIN

REVISED TRAIL WIDTH



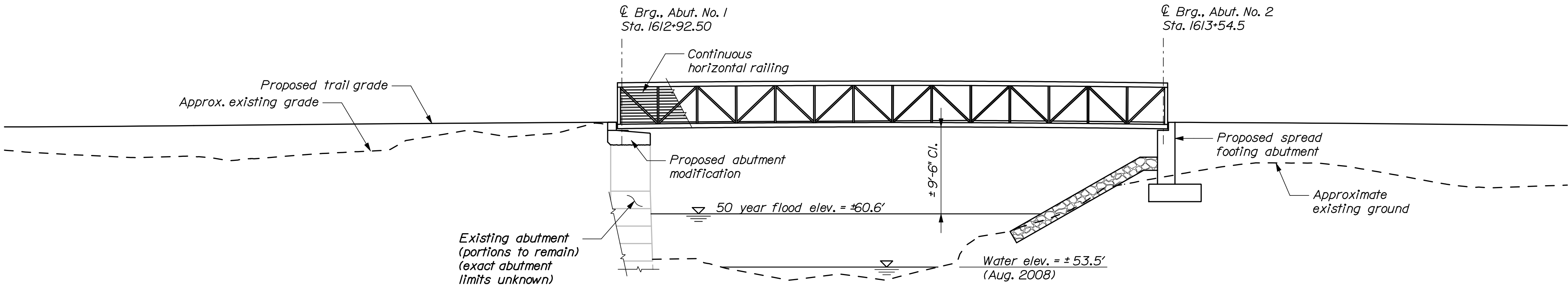
Filename: 060_KennRiverPlanProfile.dgn

Date: 8/17/2009



PLAN

1/8" = 1'-0"



PROFILE

1/8" = 1'-0"

NOTES:

- Final dimensions of prefabricated bridge may vary from those shown on the plans. The Contractor shall coordinate all bridge dimensions with the bridge fabricator.
- Warp trail surface to match proposed bridge surface.
- Existing gas line to remain (not shown in profile view). See utility specification for additional information.

DESIGN REQUIREMENTS

The Prefabricated Bridge shall be designed in accordance with the AASHTO Standard Specifications for Highway Bridges, 17th edition, and the AASHTO Guide Specification for Pedestrian Bridges.

- The Prefabricated Bridge shall be designed to carry a pedestrian loading of 85 psf. No reduction in the pedestrian live load intensity shall be taken.
- The construction, handling, and assembly of the prefabricated Bridge shall be in accordance with Special Provision Sections 104 and 504, and with the manufacturer's specifications, as applicable.

DESIGN LOADING

Live Load 85 p.s.f. (pedestrian only)

HYDROLOGIC DATA

Drainage Area	26.8 sq mi
Design Discharge (Q50)	1,131 cfs
Check Discharge (Q100)	1,288 cfs
Headwater Elevation (Q50)	60.6 ft
Headwater Elevation (Q100)	60.9 ft
Discharge Velocity (Q50)	5 fps
Discharge Velocity (Q100)	6 fps

MATERIALS

Concrete (Unless noted otherwise)..... Class "A"
Reinforcing Steel:..... ASTM A615/A615M, Grade 60
Structural Steel:..... ASTM A709/A709M, Grade 50W

BASIC DESIGN STRESSES

Concrete:..... f'c = 4,350 psi
Reinforcing Steel:..... 60,000 psi
Structural Steel:..... 50,000 psi

UTILITIES

Granite State Gas (high pressure gas transmission line)

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER PLAN & PROFILE

SHEET NUMBER

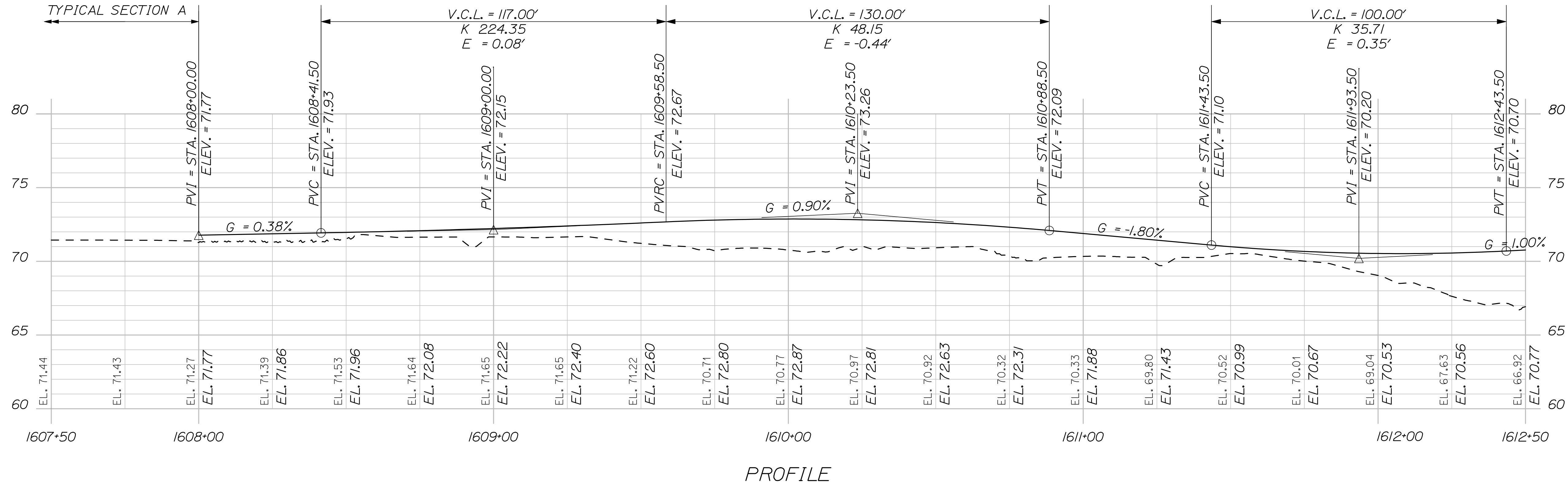
60

OF 69

HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

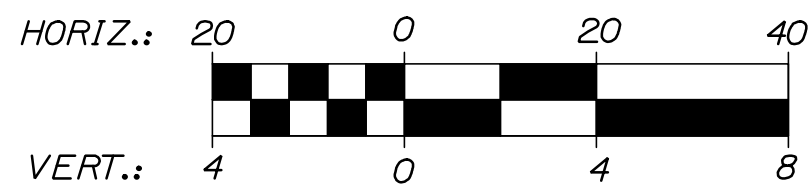
DESIGNED	BY	DATE	SIGNATURE
TRC	TRC	06/09	
CHECKED	BY	DATE	P.E. NUMBER
LDW	LDW	06/09	6452
REVISIONS	BY	DATE	
1	TRAIL & BRIDGE	08/09	
2			
3			
4			
5			
6			



PROFILE

REVISED PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT

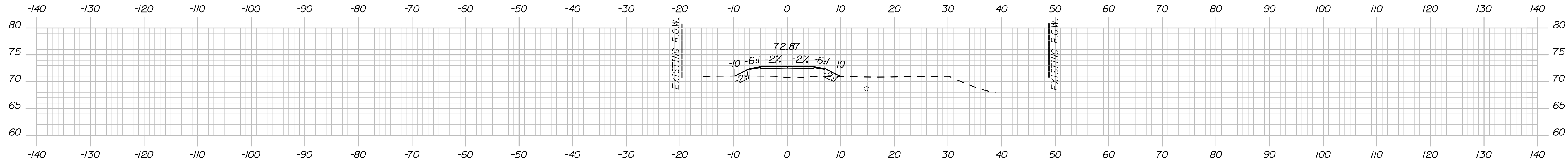


EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER BRIDGE PROFILE

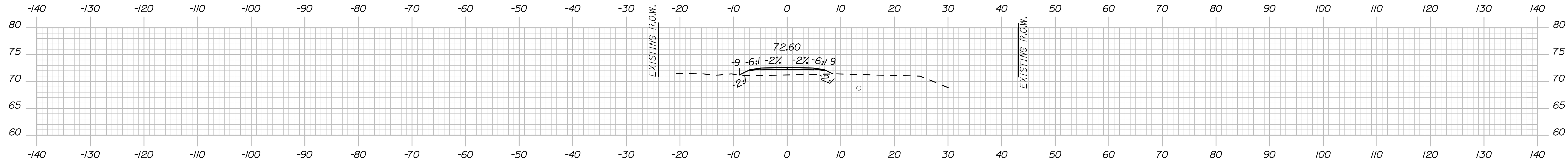
SHEET NUMBER
62
OF 69

DESIGNED	BY	DATE	SIGNATURE
AZ	MPC	06/08	
CHECKED	BY	DATE	SIGNATURE
LEW	LEW	06/08	
REVISIONS 1	REV. PROFILE	DATE	P.E. NUMBER
REVISIONS 2			6452
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

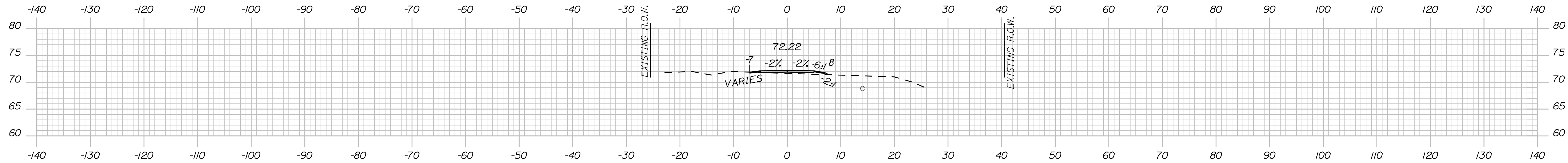
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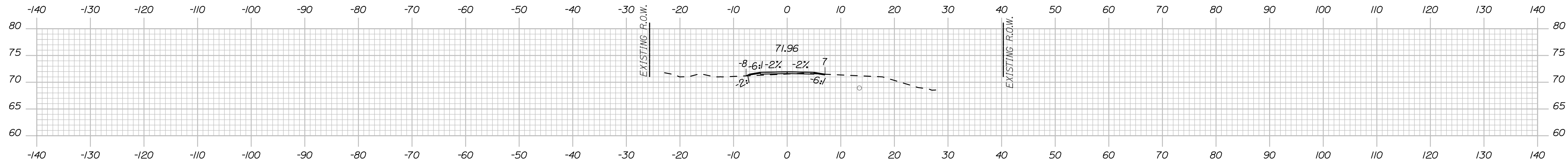
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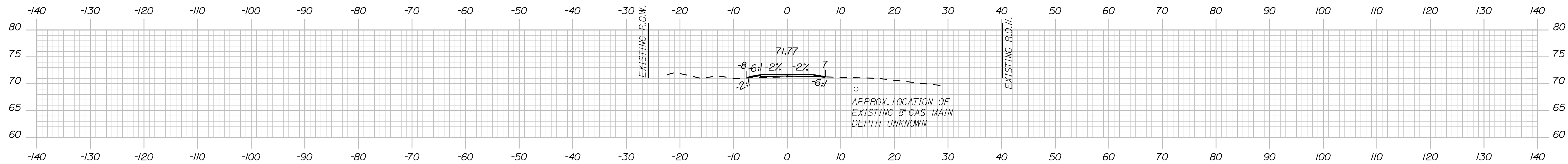
1609+50.00



1609+00.00



1608+50.00



1608+00.00

REVISED SECTIONS

DESIGNED	BY	DATE	SIGNATURE
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CHECKED	MFC	06/09	
REVISIONS 1	REV. SECTIONS	06/09	P.E. NUMBER
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
REVISIONS 5			
REVISIONS 6			

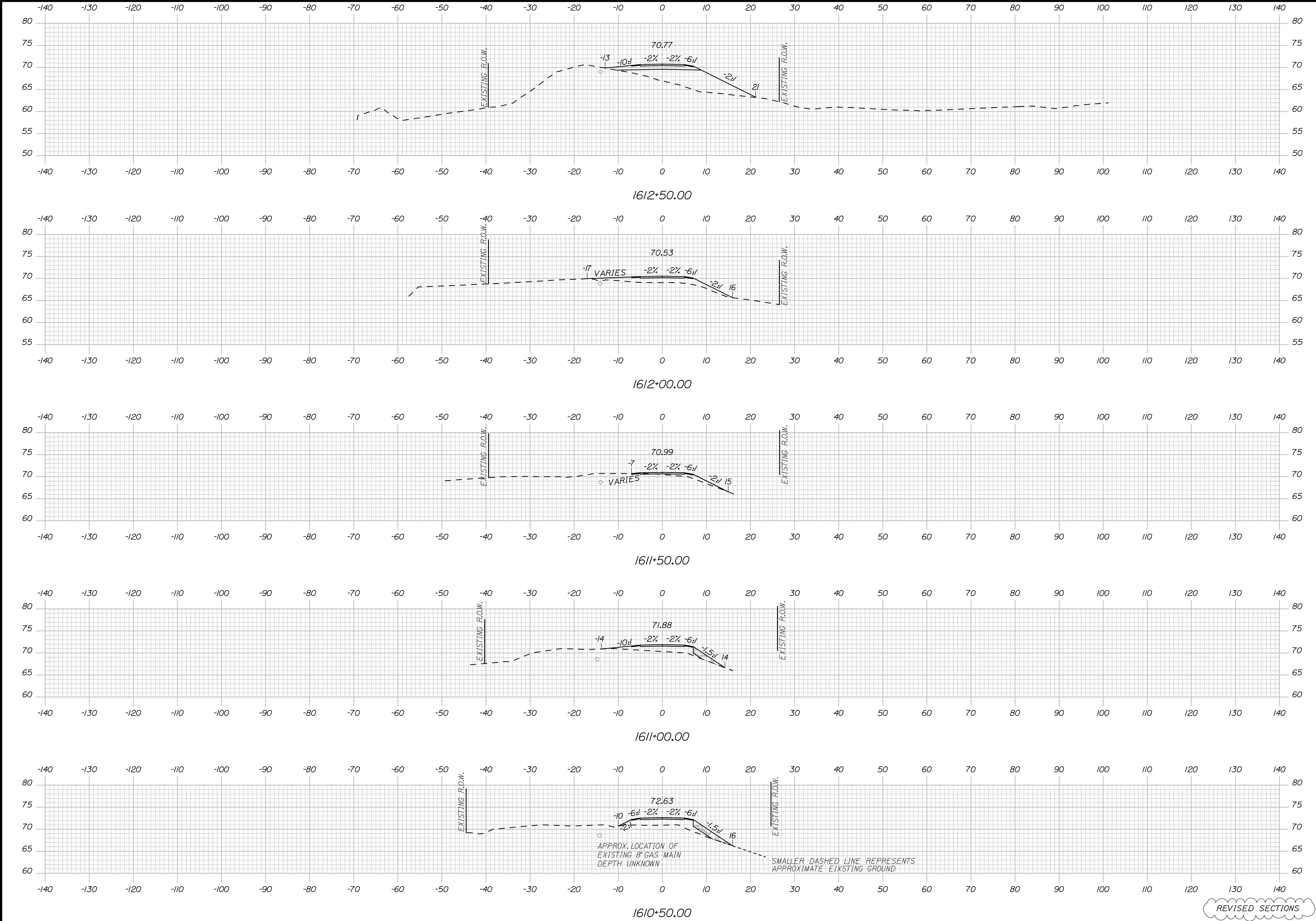
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER APPROACH CROSS SECTIONS

Date:8/17/2009

Username: moundiff

Division: BRIDGE

Filename: 064_KennebunkRiver XSec_2.dgn



REVISED SECTIONS

HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

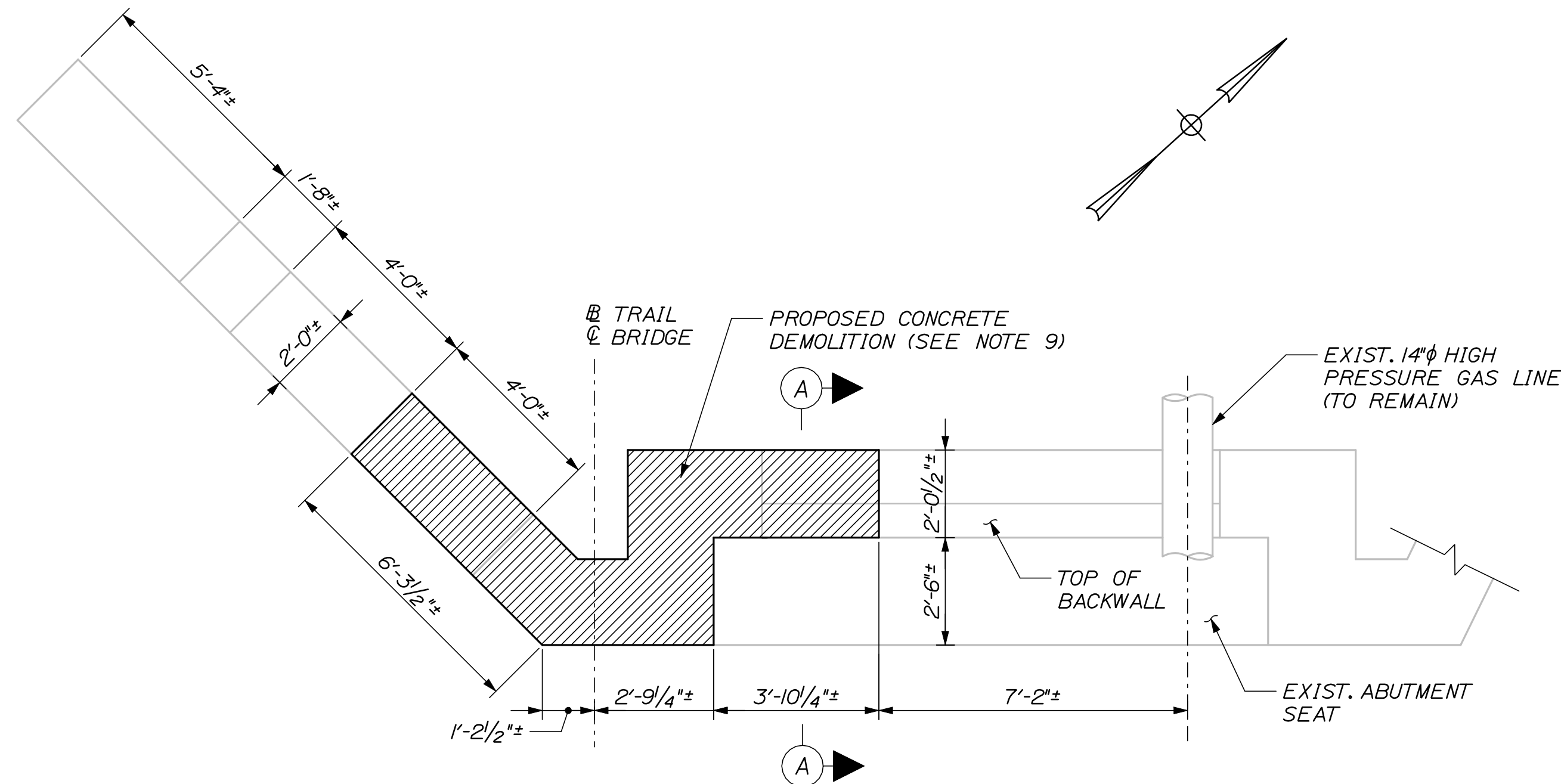
DESIGNED	DATE	SIGNATURE	P.E. NUMBER	DATE
DRAWN	BY			
CHECKED	REV. SECTIONS			
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
REVISIONS 5				
REVISIONS 6				

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

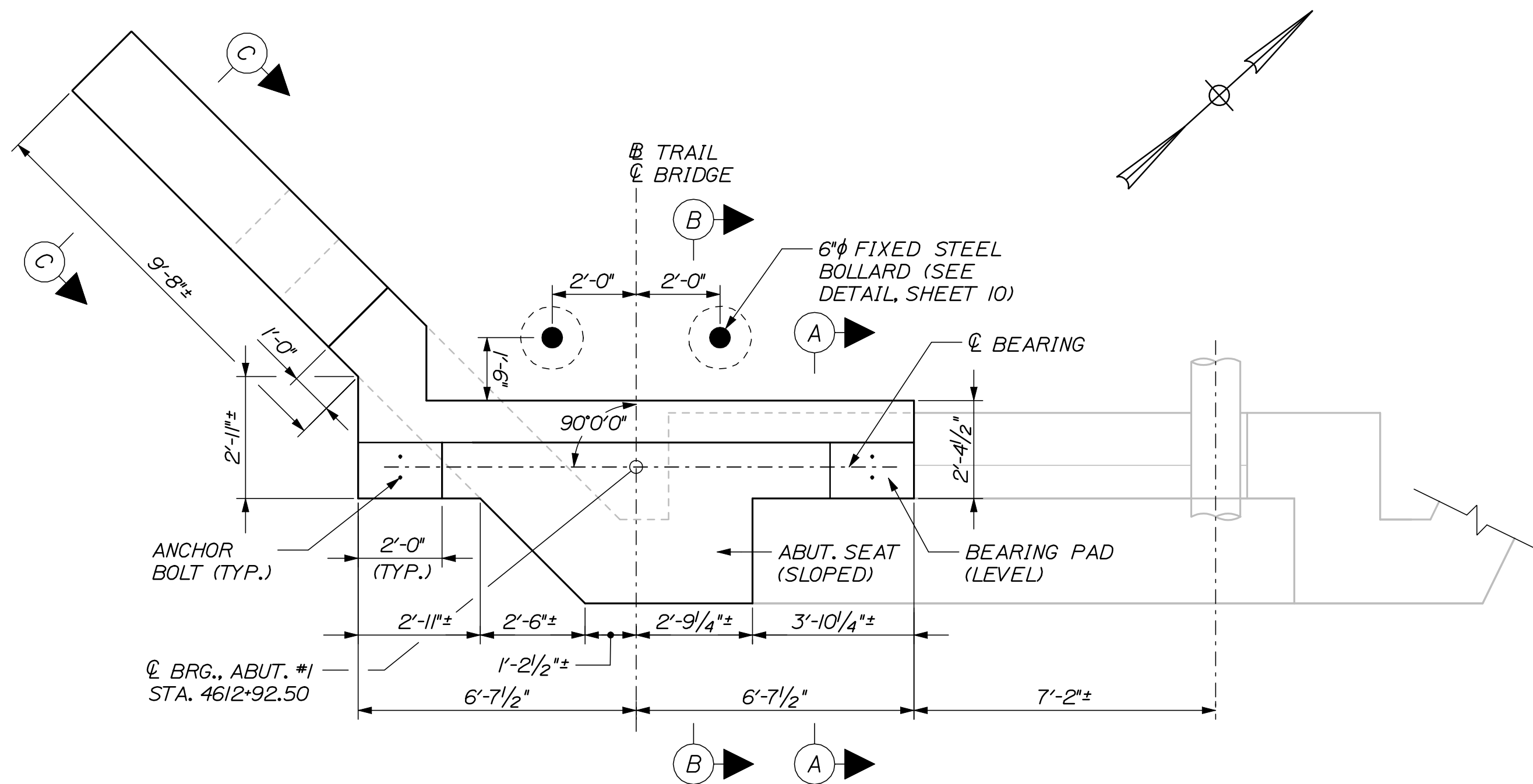
SHEET NUMBER
64
OF 69

Date: 8/17/2009

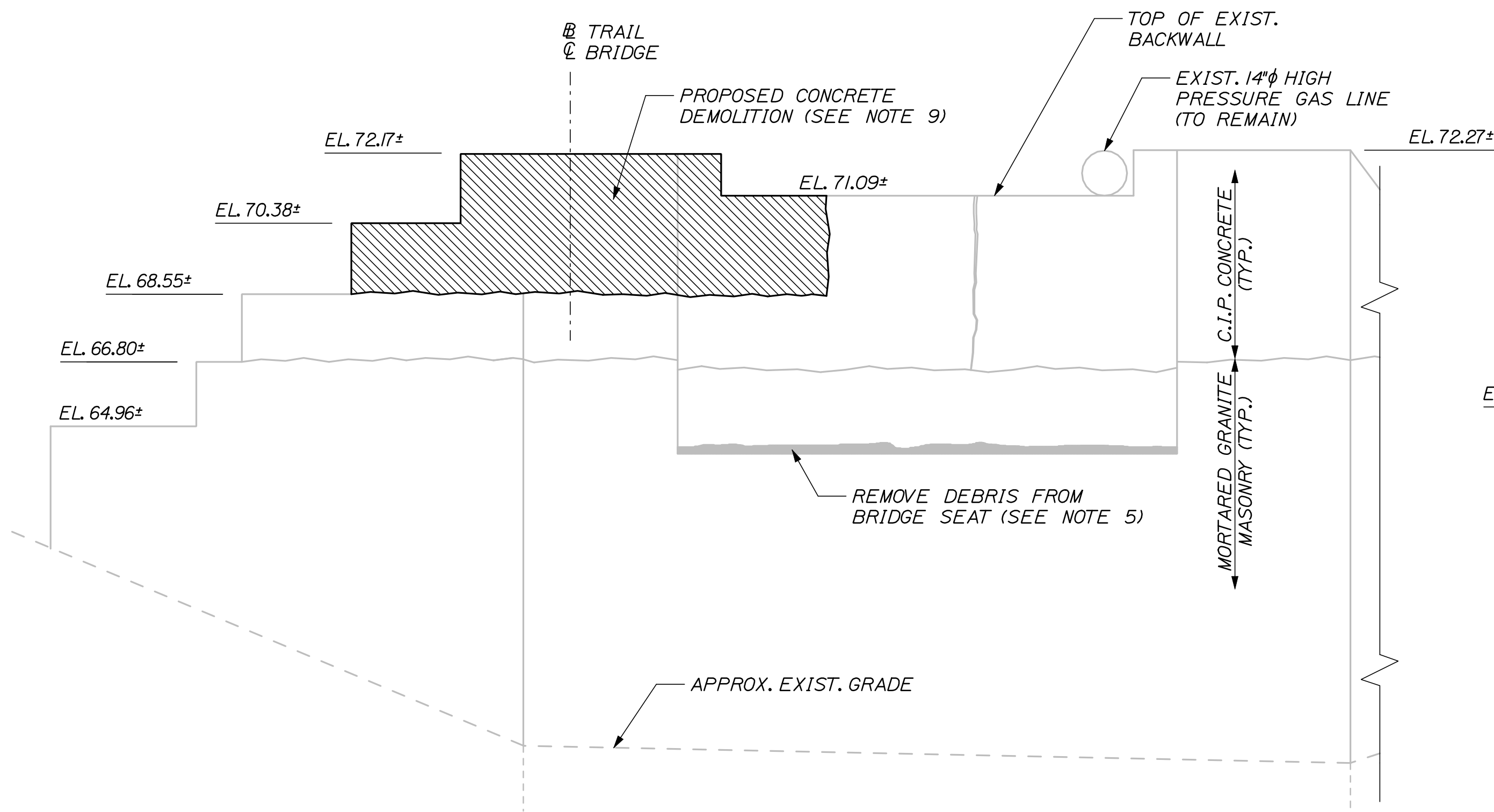
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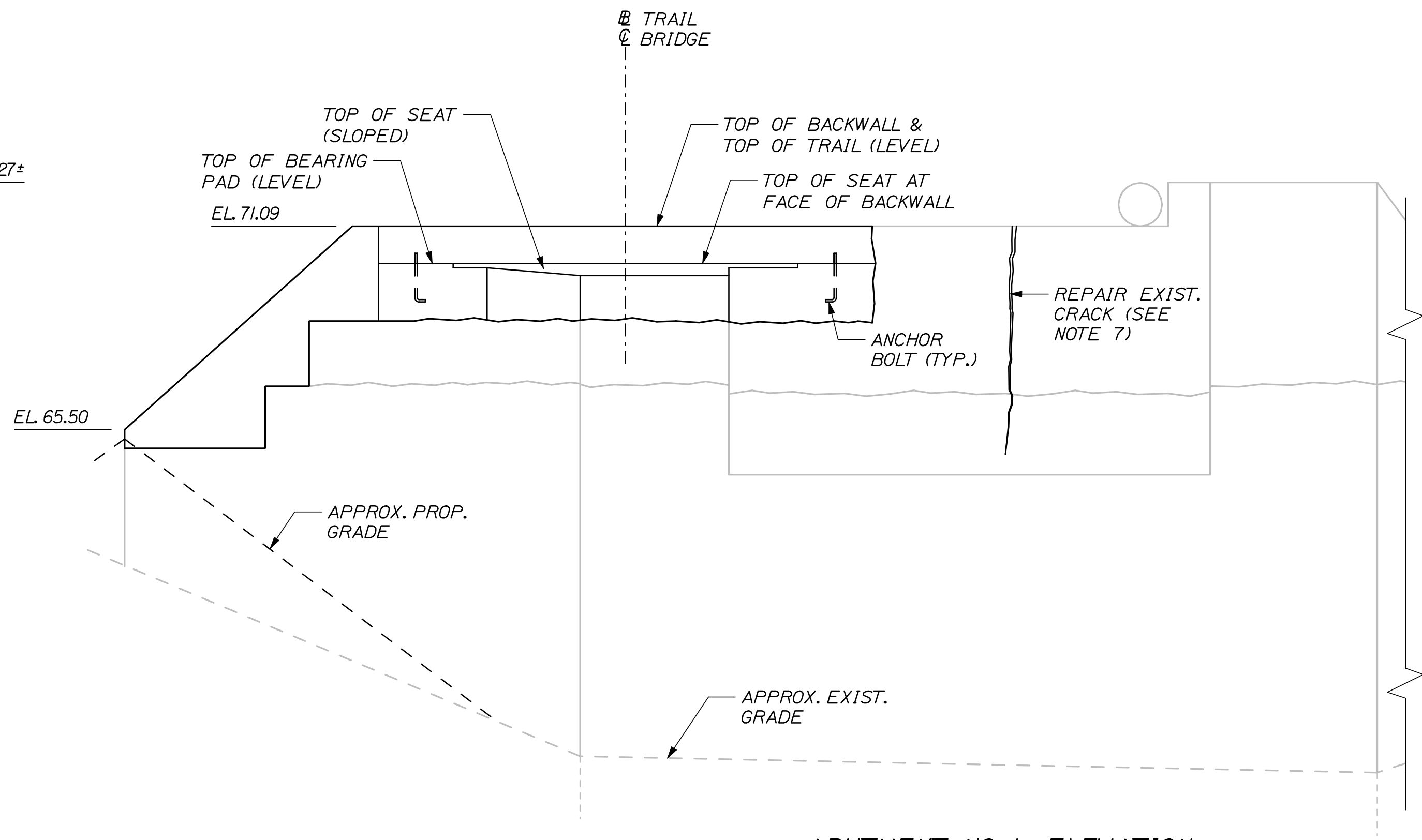
ABUTMENT NO. 1 - PLAN
(DEMOLITION)
3/8" = 1'-0"



ABUTMENT NO. 1 - PLAN
(PROPOSED MODIFICATIONS)
3/8" = 1'-0"



ABUTMENT NO. 1 - ELEVATION
(DEMOLITION)
3/8" = 1'-0"



ABUTMENT NO. 1 - ELEVATION
(PROPOSED MODIFICATIONS)
3/8" = 1'-0"

REVISED ABUTMENT DESIGN

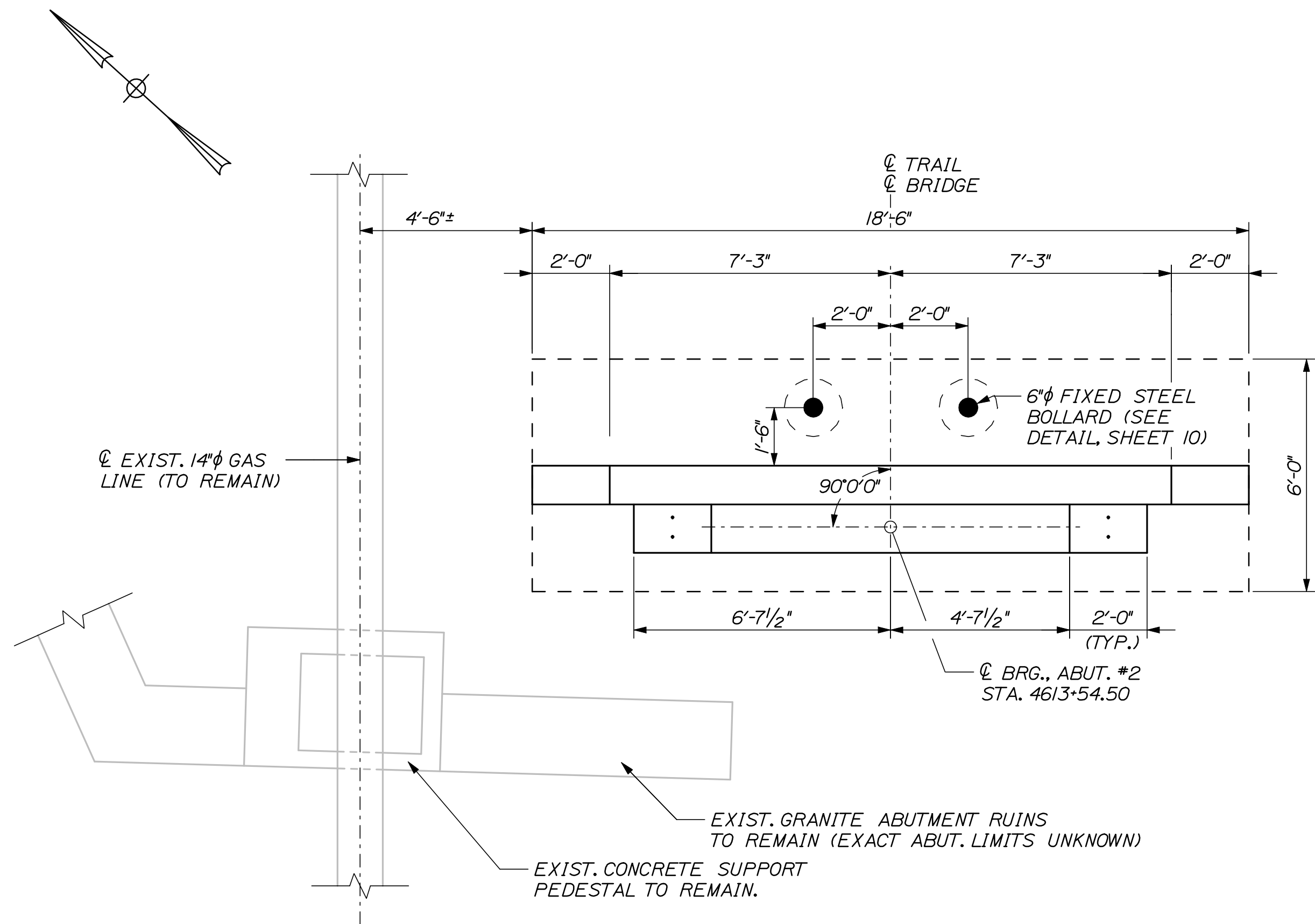
NOTE: FOR NOTES AND SECTIONS A, B, & C SEE SHEET 65A.

DESIGNED	DATE	BY	SIGNATURE	P.E. NUMBER	DATE
TRC	06/09	TRC			
MPC	06/09	MPC			
LDW	06/09	LDW			
ABUT DESIGN	08/09	ABUT DESIGN			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

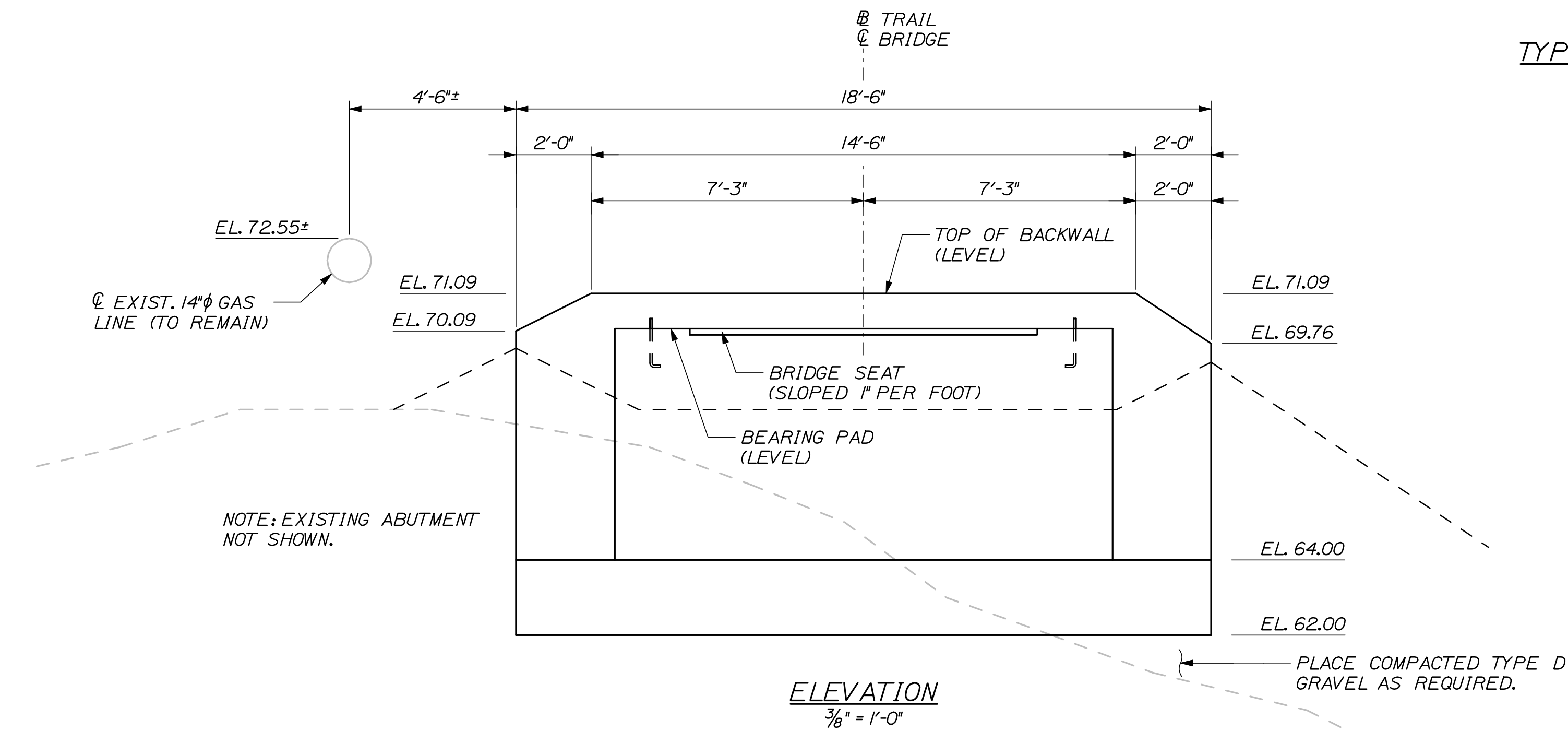
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER - ABUTMENT NO. 1

Date: 8/17/2009

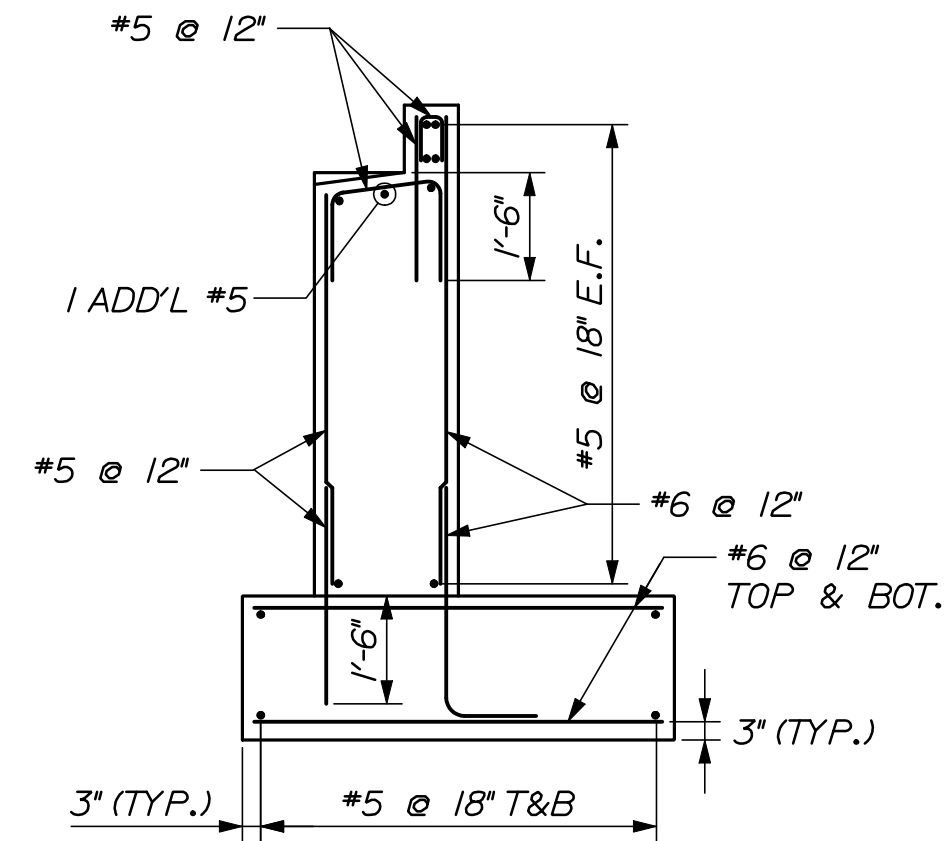
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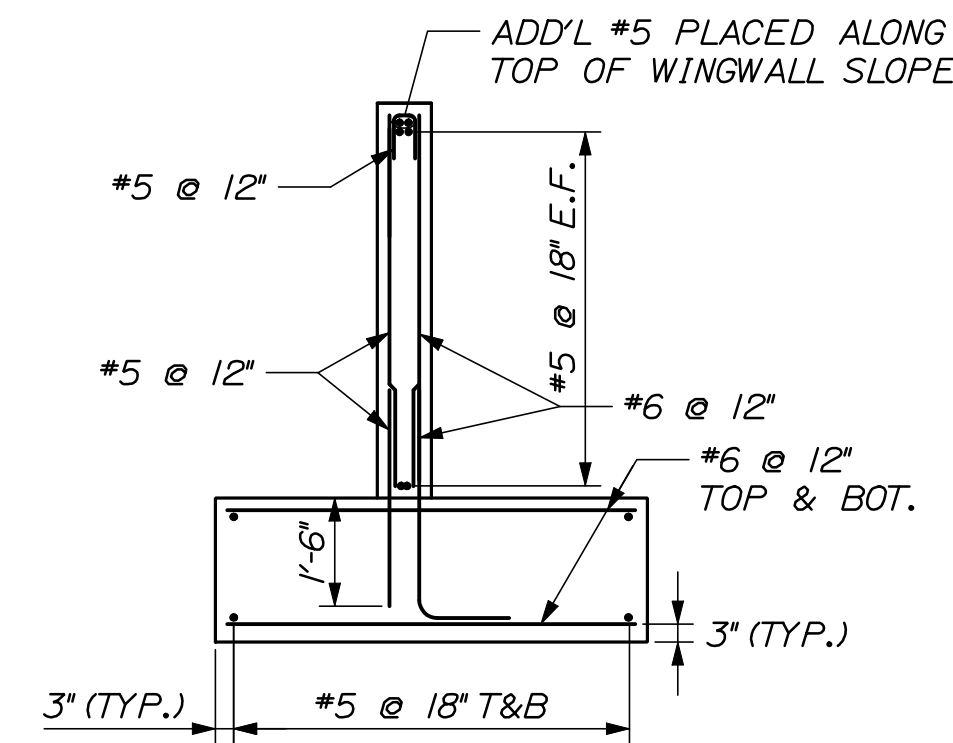
PLAN
3/8" = 1'-0"



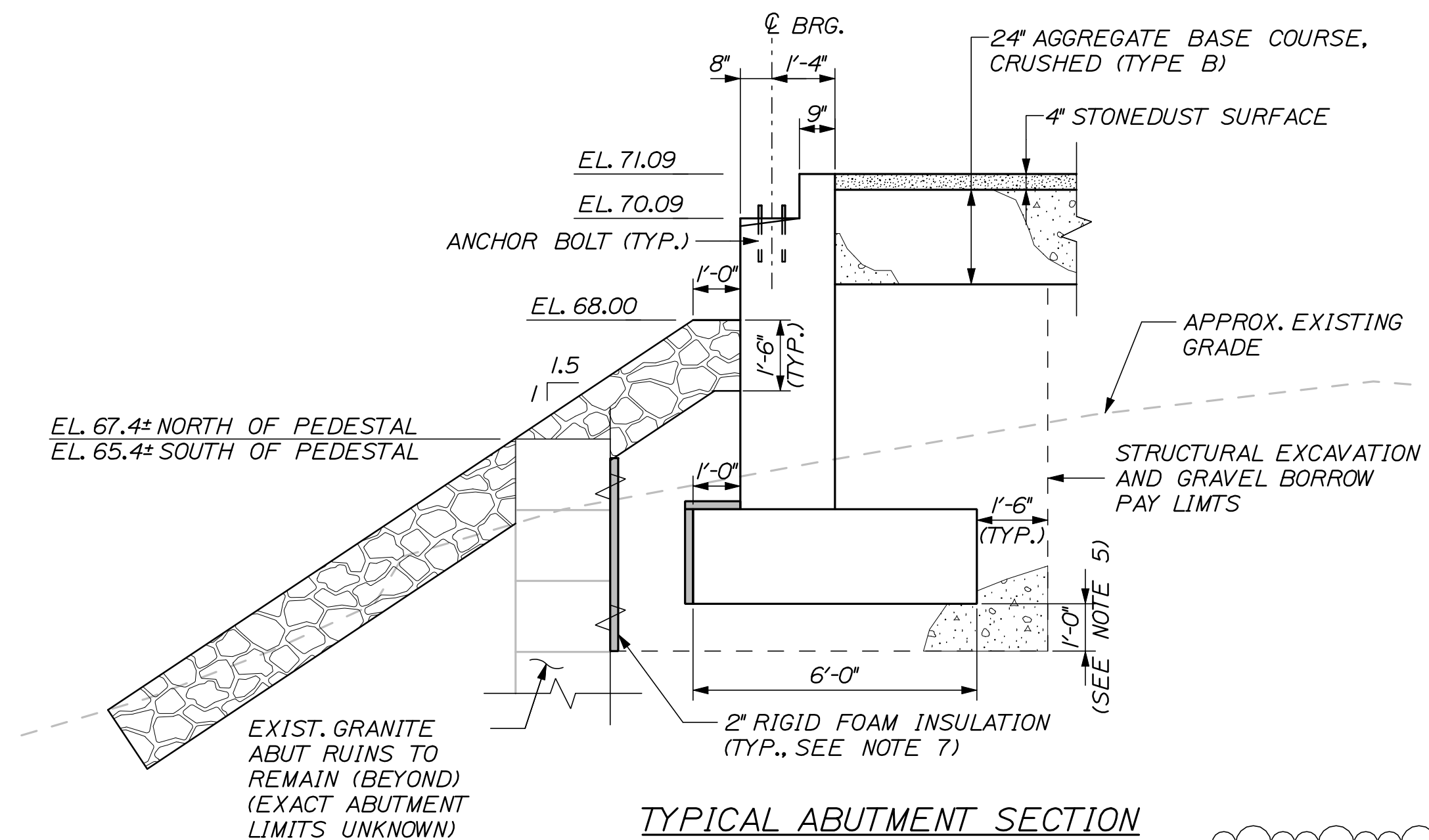
ELEVATION
3/8" = 1'-0"



TYPICAL ABUTMENT REINFORCING
3/8" = 1'-0"



TYPICAL WINGWALL REINFORCING
3/8" = 1'-0"



TYPICAL ABUTMENT SECTION
3/8" = 1'-0"

REVISED ABUTMENT
DESIGN

NOTES:

1. ALL CONCRETE SHALL BE CLASS A, AND SHALL BE PAID UNDER ITEM 502.219 "STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS". THE ABUTMENT SEAT, BEARING PADS, WINGWALLS, AND BACKWALLS SHALL BE CAST MONOLITHICALLY.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".
3. ALL REINFORCING STEEL SHALL BE BLACK BAR AND HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE NOTED. FABRICATION, DELIVERY, AND PLACEMENT OF REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 502.219 "STRUCTURAL CONCRETE ABUTMENTS AND RETAINING WALLS".
4. THE LIMITS OF EXISTING GRANITE ABUTMENT ARE UNKNOWN. IF INTERFERENCE BETWEEN THE EXISTING AND PROPOSED ABUTMENT IS ENCOUNTERED DURING EXCAVATION, THE RESIDENT MAY DIRECT THAT PORTIONS OF THE GRANITE MASONRY ABUTMENT FOOTING BE REMOVED. REMOVAL SHALL BE INCIDENTAL TO ITEM 206.082.
5. STRUCTURAL EXCAVATION BELOW ELEVATION 62.0 WILL NOT BE REQUIRED IF THE EXISTING MATERIAL IS GRANULAR AND DEEMED SUITABLE FOR USE BY THE RESIDENT.
6. ALL REINFORCING STEEL BAR BENDS SHALL BE IN CONFORMANCE WITH THE LATEST REVISION OF ACI STANDARD 318. MINIMUM LAP LENGTHS SHALL BE AS FOLLOWS:
#5 BARS: 2'-3" MIN.
#6 BARS: 2'-7" MIN.
7. WHERE SPECIFIED, RIGID FOAM INSULATION SHALL RUN ALONG THE FULL LENGTH OF THE PROPOSED ABUTMENT.
8. MAXIMUM UNFACTORED TOE PRESSURE = 2,740 PSF (GROUP IV LOADING). MAXIMUM ALLOWABLE BEARING PRESSURE (AVERAGE) = 3,000 PSF. MAXIMUM ALLOWABLE TOE PRESSURE = 4,000 PSF.

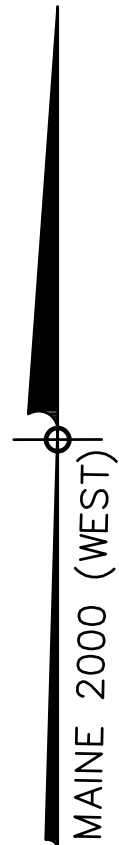
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER - ABUTMENT NO. 2

SHEET NUMBER
66
OF 69

HNTB
340 COUNTY ROAD, SUITE 6-C
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
TRC	06/09	TRC	06/09			
MPC	06/09	MPC	06/09			
LDW	06/09	LDW	06/09			
ABUT DESIGN	08/09	ABUT DESIGN	08/09			
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
REVISIONS 5						
REVISIONS 6						

M:\JOBS\47578 - EASTERN TRAIL\002 - FINAL DESIGN\CAD\ROW\FINAL\FINAL ETMD ROW 6-04-09.DWG 05/22/09 12:27



MAINE SCHOOL ADMINISTRATIVE DISTRICT 71
KENNEBUNK ASSESSOR'S MAP 29, LOT 10 (PORTION OF)
EASEMENT RIGHTS = 27,387 SF (0.63 ACRES)

TOTAL PARCEL = 36.75 (PER ASSESSOR'S DATA)

N/F
MSAD 71
YCRD 10122/74

MARION & RICHARD ANGERS
KENNEBUNK ASSESSOR'S MAP 30, LOT 95 (PORTION OF)
EASEMENT RIGHTS = 2,154 SF (0.05 ACRES)

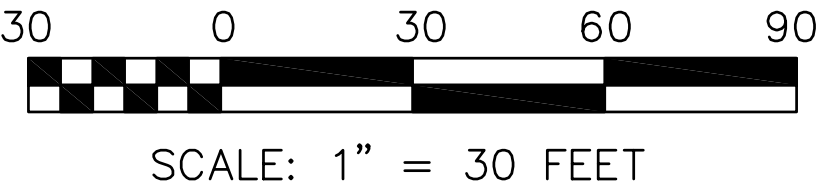
TOTAL PARCEL = 18.00 (PER ASSESSOR'S DATA)

N/F
ANGERS
YCRD 15012/437

N/F
JOANN J. LANK
LIVING TRUST
YCRD 13849/331

JOANN J. LANK LIVING TRUST
KENNEBUNK ASSESSOR'S MAP 30, LOT 108 (PORTION OF)
EASEMENT RIGHTS = 24,536 SF (0.56 ACRES)

TOTAL PARCEL = 35.00 (PER ASSESSOR'S DATA)



NOTES:
EASEMENT DEEDS RECORDED IN THE YORK COUNTY REGISTRY OF DEEDS ON JUNE 2, 2009, TO EASTERN TRAIL ALLIANCE:

- FROM MARION AND RICHARD ANGERS, BOOK 15645, PAGE 532, DATED MAY 29, 2009.
- FROM JOANN J. LANK LIVING TRUST, BOOK 15645, PAGE 534, DATED JUNE 1, 2009.
- FROM MAINE SCHOOL ADMIN. DISTRICT, BOOK 15645, PAGE 536, DATED JUNE 1, 2009.

MAINE COORDINATE SYSTEM OF 2000, WEST ZONE

340 COUNTY ROAD, SUITE 6-C
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
PPD	PPD	06/09		6452	
DRAWN	PPD	06/09			
CHECKED	PPD	06/09			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

PROPERTY AND RIGHT-OF-WAY PLAN

SHEET NUMBER

67

OF 69



STREAM RELOCATION PLAN

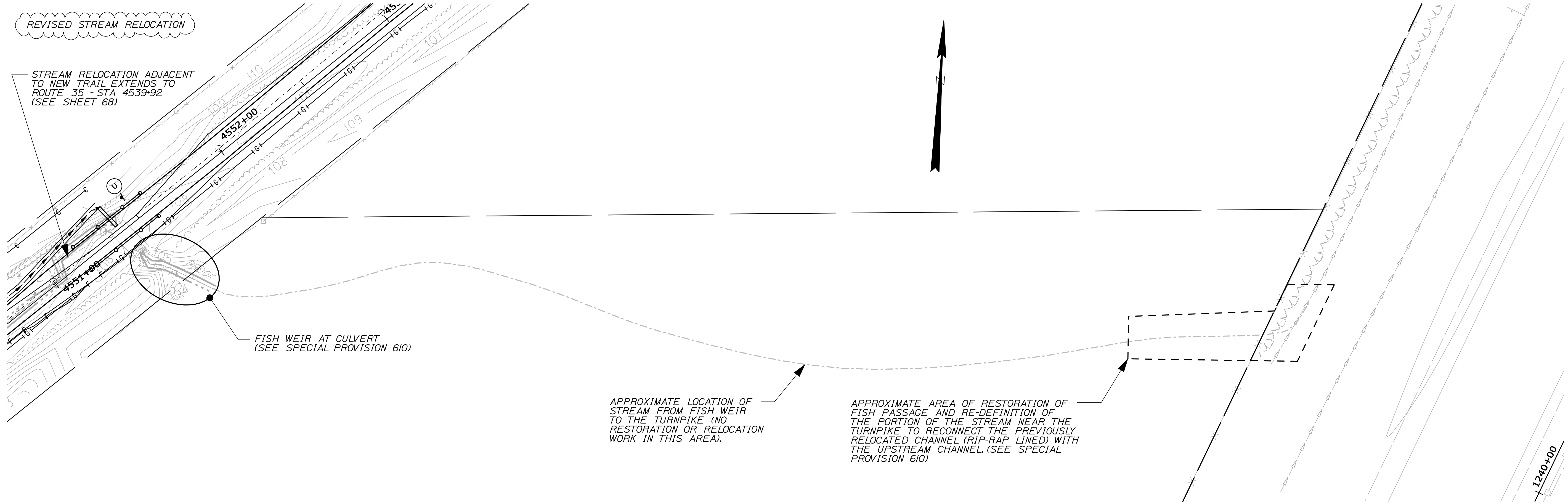
1. REFER TO SPECIAL PROVISION 610 FOR STREAM RELOCATION AND RESTORATION WORK.
2. STREAM BOULDERS SHALL BE PLACED RANDOMLY WITHIN THE STREAM CHANNEL AND ON BANKS AS DIRECTED BY THE RESIDENT (SEE SPECIAL SPECIFICATION 610).
3. POST-CONSTRUCTION FLOW ONTO ABUTTING PROPERTY SOUTHEAST OF THE CORRIDOR'S INTERSECTION WITH ROUTE 35 SHALL MATCH THE PRE-CONSTRUCTION FLOW RATE.



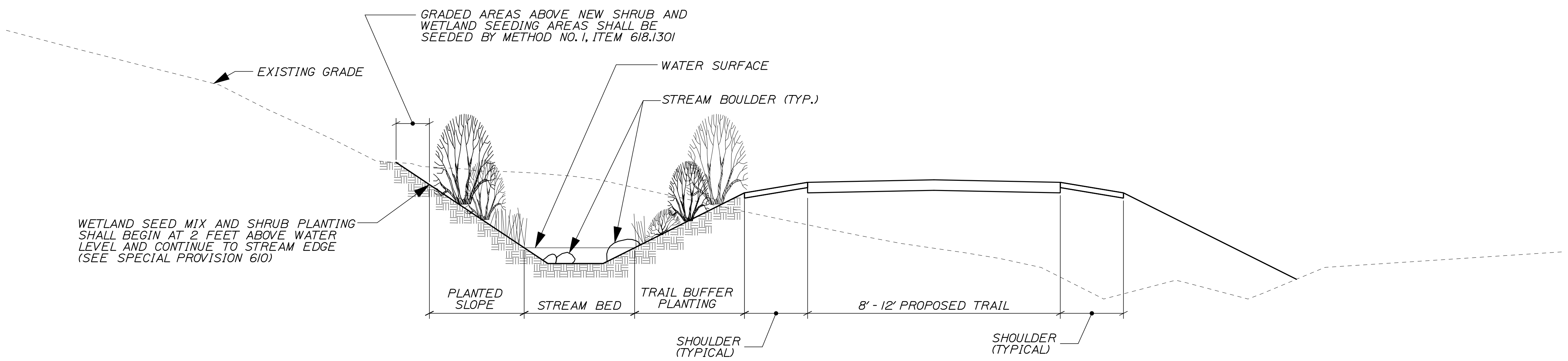
	BY	DATE
DESIGNED	KLS	05/09
DRAWN	KJH	05/09
CHECKED	KLS	05/09
REVISIONS 1	RELOC STREAM	08/09
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		
SIGNATURE		6452
P.E. NUMBER		
DATE		

Date: 8/17/2009

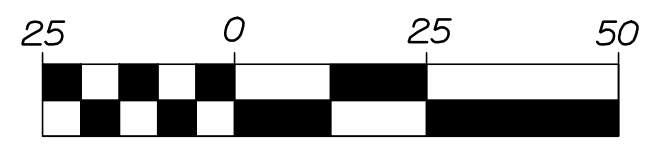
Filename: 069_Stream_plan.dgn



STREAM RELOCATION & RESTORATION PLAN



STREAM RELOCATION TYPICAL SECTION



HNTB
2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE	SIGNATURE
KLS	KLS	05/09	
DRAWN	K/H	05/09	
CHECKED	KLS	05/09	
REVISIONS 1	RELOC. STREAM	08/09	
REVISIONS 2			
REVISIONS 3			
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REVISIONS 5			
REVISIONS 6			

6452
P.E. NUMBER
DATE

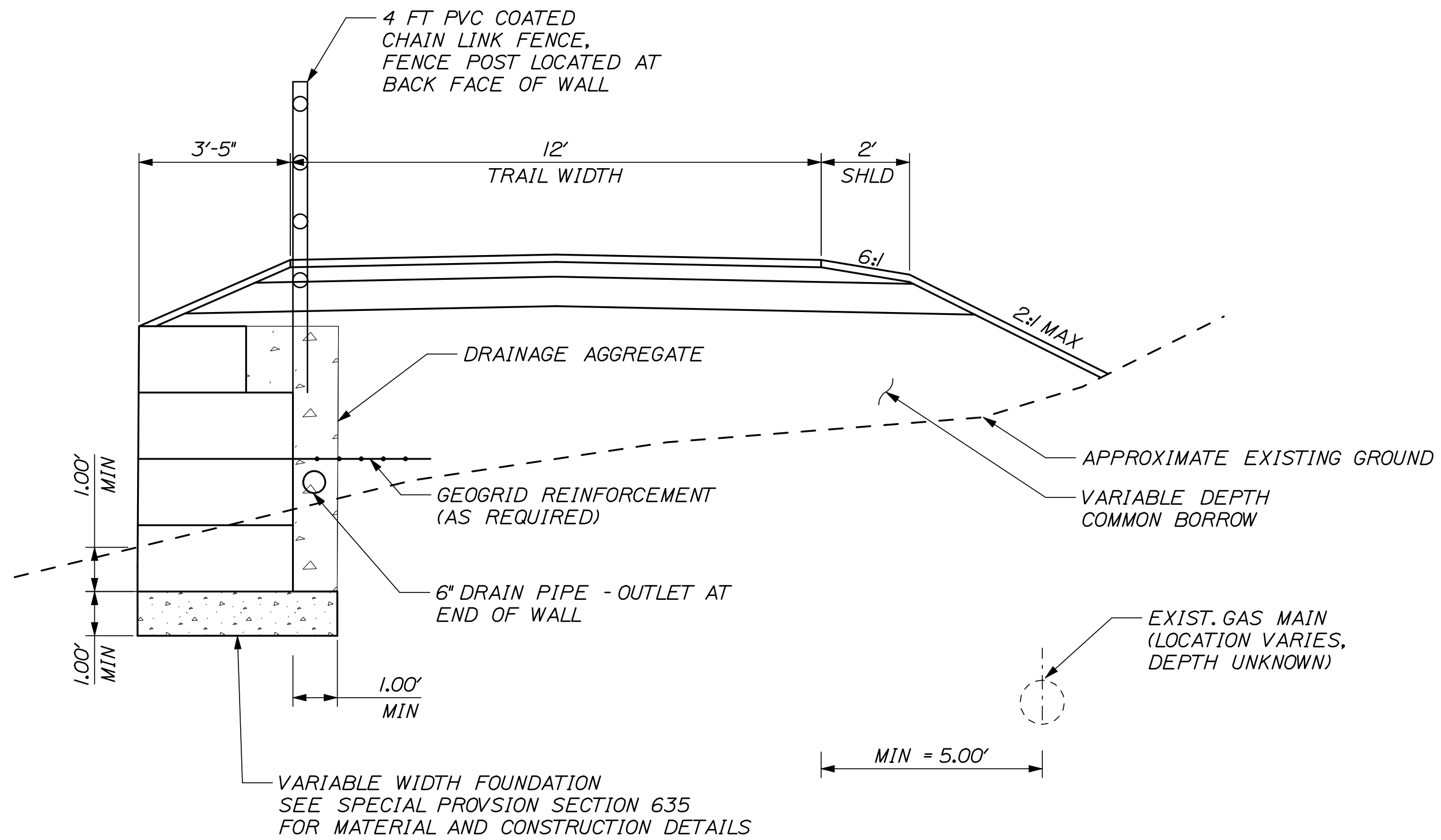
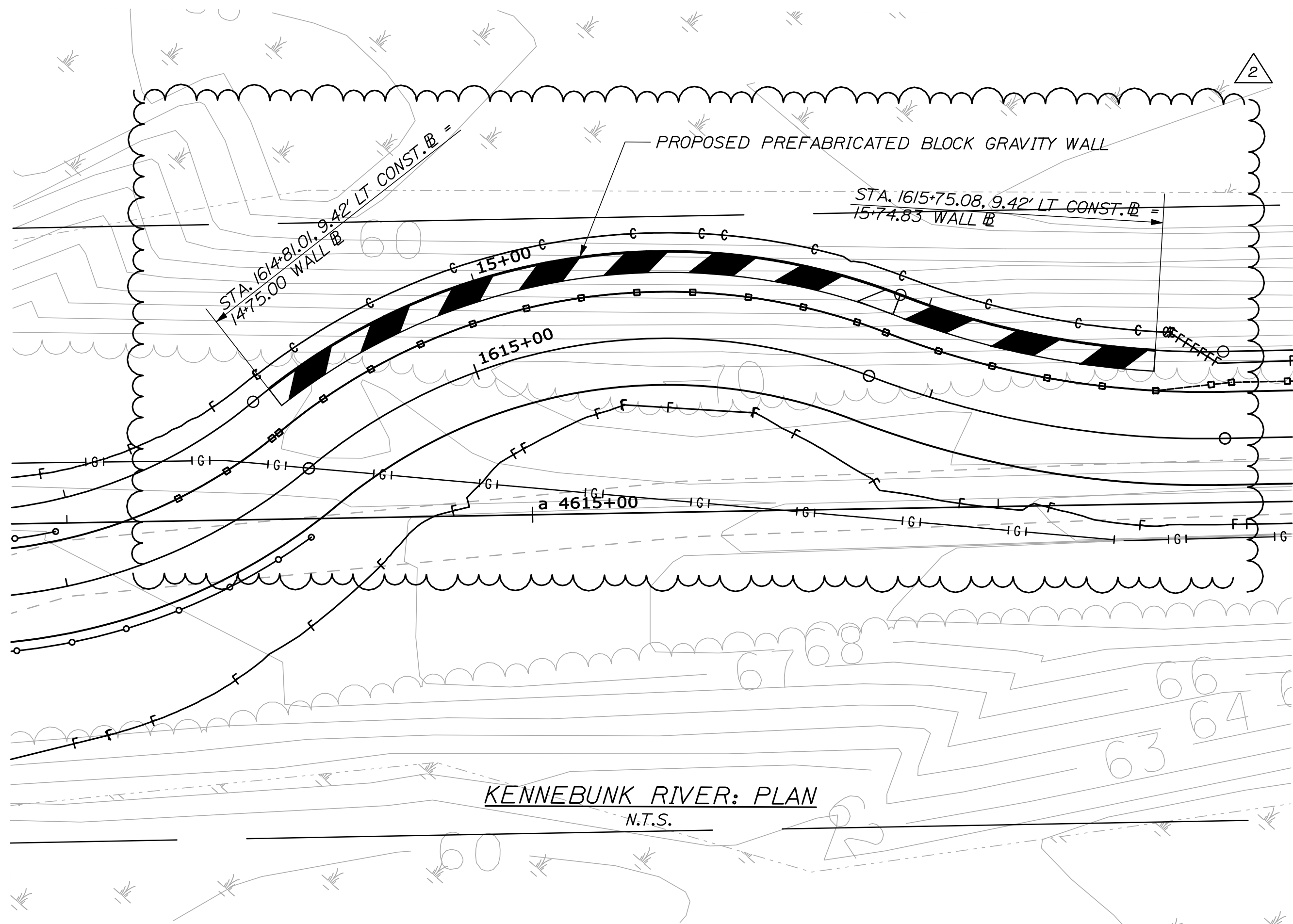
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDEFORD, MAINE

STREAM RELOCATION PLAN 2

SHEET NUMBER

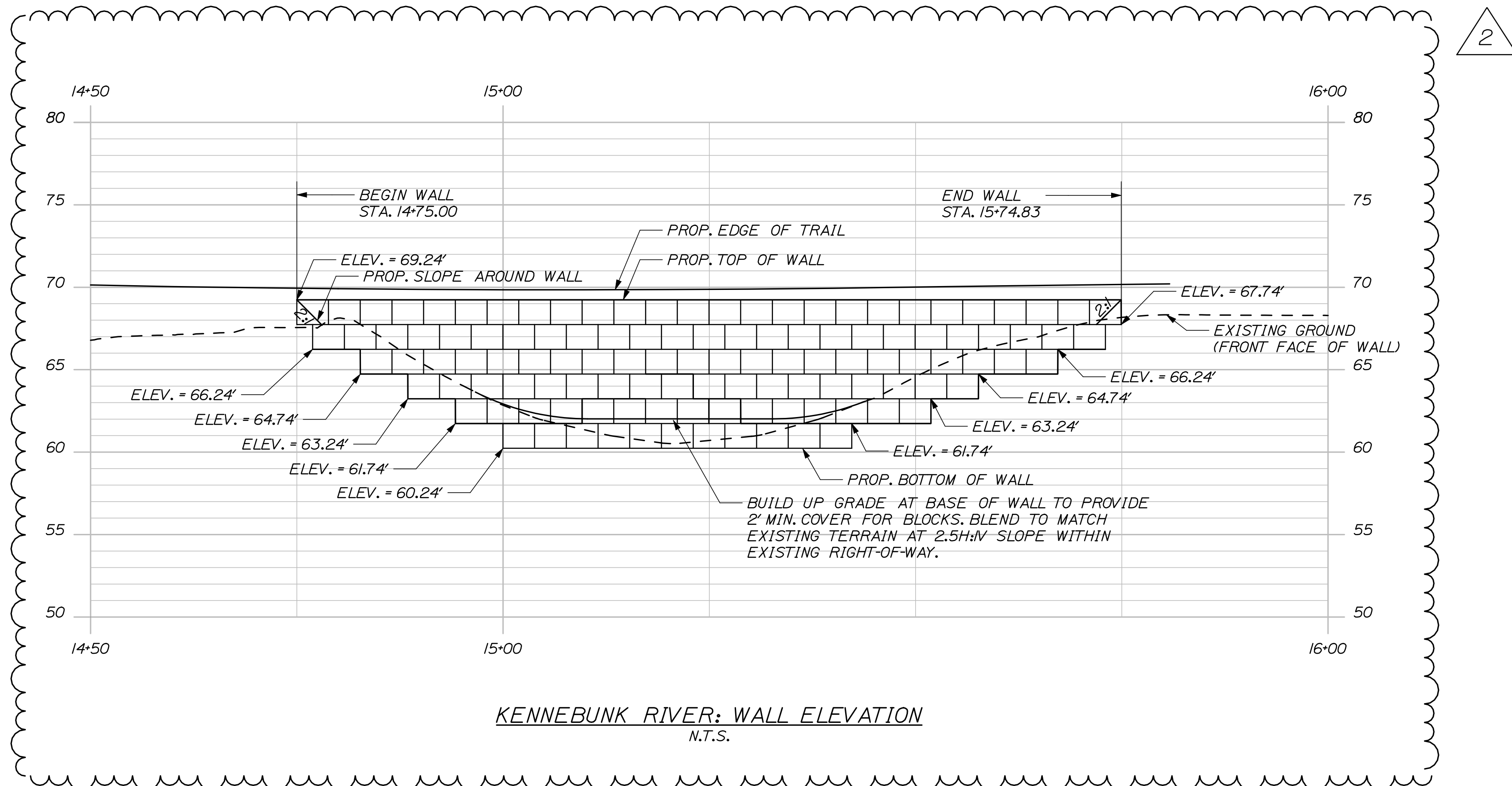
69

OF 69



KENNEBUNK RIVER APPROACH WALL TYPICAL SECTION
N.T.S.

- NOTE:
1. SEE PLAN AND ELEVATION FOR LOCATION AND HEIGHT OF PROPOSED RETAINING WALLS.
 2. 1'-6" HIGH X 46 7/8" LONG X 4" WIDE BLOCK USED FOR LAYOUT PURPOSES.



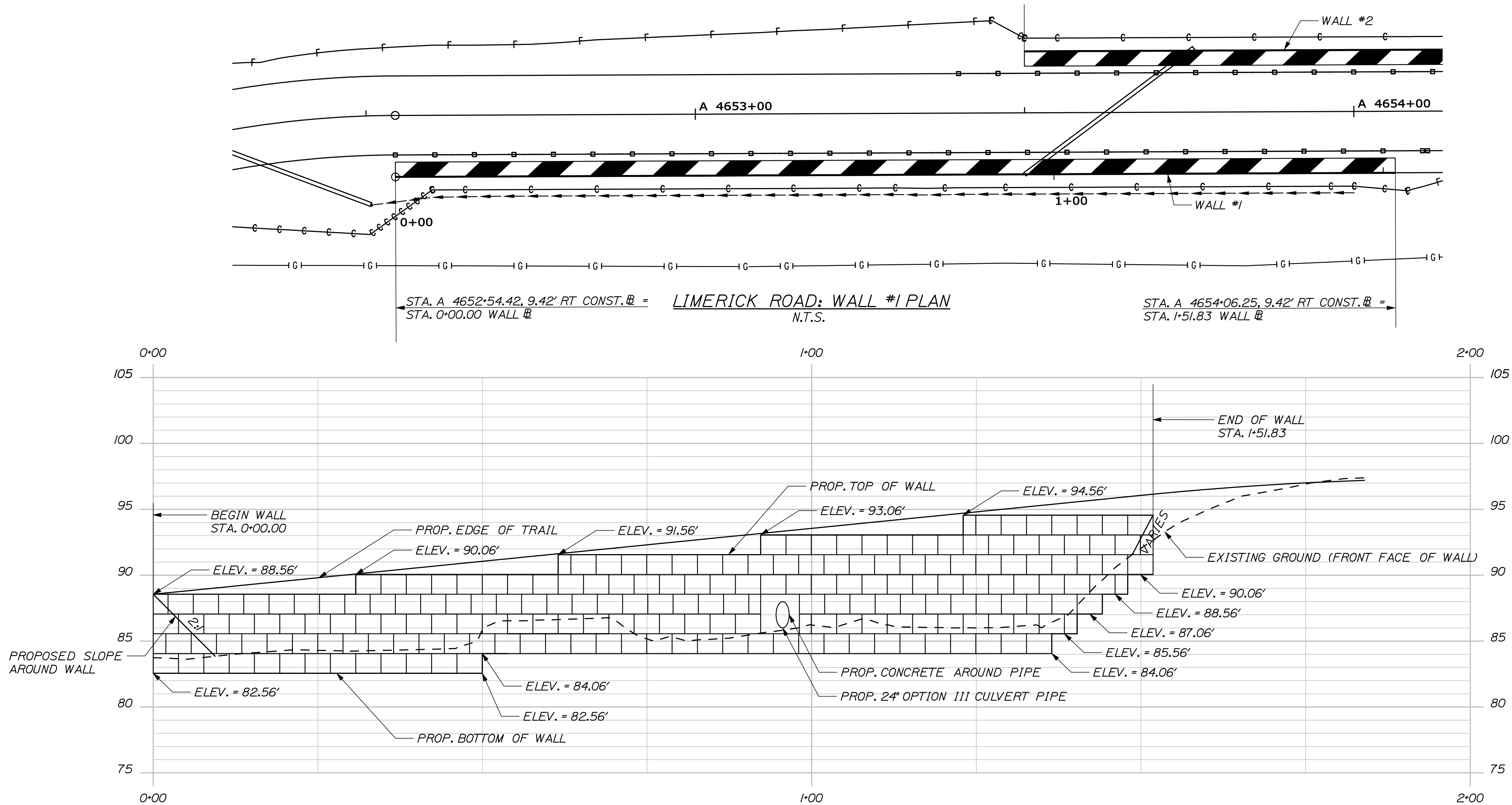
KENNEBUNK RIVER: WALL ELEVATION
N.T.S.

1. THE CONTRACTOR SHALL PROVIDE A PRECAST CONCRETE BLOCK GRAVITY WALL OR A PRECAST AGGREGATE-FILLED CONCRETE BLOCK GRAVITY WALL IN ACCORDANCE WITH SPECIAL PROVISION 635 FOR THE RELEVANT WALL SYSTEM. PRECAST CONCRETE BLOCK GRAVITY WALLS SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. THE PRECAST BLOCKS UNITS SHALL BE *REDI-ROCK* AS PRODUCED BY A LICENSED MANUFACTURER OF *REDI-ROCK* WALL SYSTEMS, OR *STONESTRONG* AS PRODUCED BY A LICENSED MANUFACTURER OF *STONESTRONG SYSTEMS OR APPROVED EQUAL.
3. BACKFILL AND FOUNDATION SOIL PARAMETERS FOR USE IN THE SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR THIS WALL.
4. THE PRECAST CONCRETE BLOCK GRAVITY WALL SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION, WITH 2008 INTERIMS.
5. THE APPLIED FACTORED BEARING PRESSURE FOR PRECAST CONCRETE BLOCK GRAVITY WALL SHALL NOT EXCEED 7.4 KSF FOR A REINFORCED WALL OR 3.6 KSF FOR AN UNREINFORCED WALL, FOR THE STRENGTH LIMIT STATE.
6. ALL BLOCKS AT THE ENDS OF THE WALL(S) MUST BE FINISHED ON THREE SIDES: THE FRONT, THE TOP AND THE EXPOSED END. BLOCKS WITH EXPOSED SURFACES AT THE ENDS AND TOP OF THE WALL MUST BE MANUFACTURED FOR THIS PURPOSE AND MUST BE FINISHED TO MATCH THE FACE OF THE BLOCKS.
7. PIPED DRAINAGE SHALL BE INCLUDED IN THE DESIGN OF THE WALLS. WALL DRAINAGE WILL BE INCIDENTAL TO CONSTRUCTION OF THE WALL.
8. A MINIMUM EMBEDMENT DEPTH OF 1 FOOT IS REQUIRED IN THE DESIGN AND CONSTRUCTION OF THE PRECAST CONCRETE BLOCK GRAVITY WALL.
9. THE FACE QUANTITY OF PRECAST CONCRETE BLOCK WALL WILL BE APPROVED BY THE PROJECT ENGINEER.

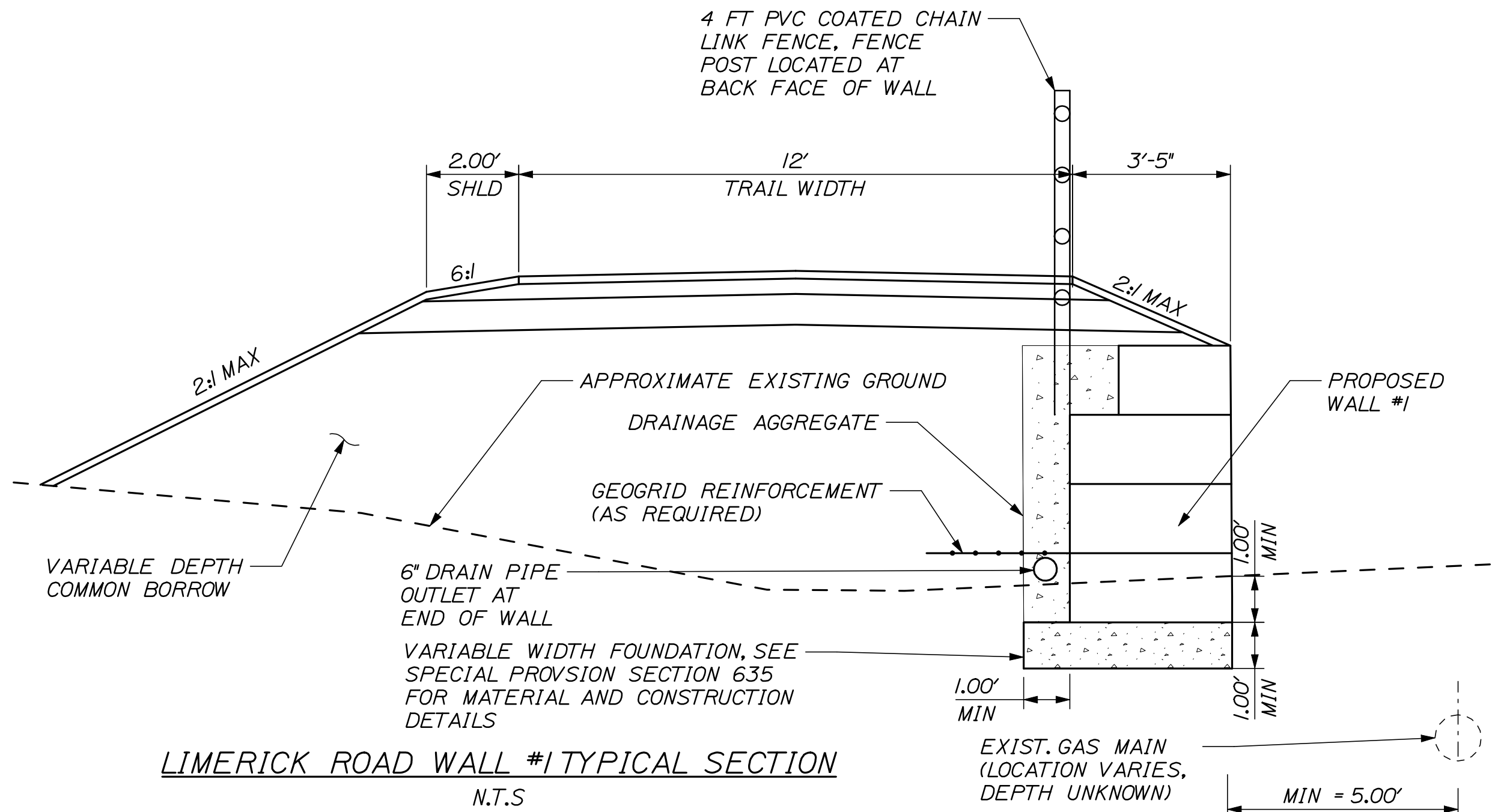
DESIGNED	DRAWN	CHECKED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6
RWH	MPC	DCE						
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
08/08	08/08	08/08	08/08	08/08	02/10			
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
6452	6452	6452	6452	6452	6452	6452	6452	6452
P.E. NUMBER	P.E. NUMBER	P.E. NUMBER	P.E. NUMBER	P.E. NUMBER	P.E. NUMBER	P.E. NUMBER	P.E. NUMBER	P.E. NUMBER
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

Date: 8/17/2009

Filename: 11B_RetainingWalls 2.dgn



LIMERICK ROAD: WALL #1 ELEVATION
N.T.S.



- NOTE:
- SEE PLAN AND ELEVATION FOR LOCATION AND HEIGHT OF PROPOSED RETAINING WALLS.
 - 1'-6" HIGH X 46 7/8" LONG X 4" WIDE BLOCK USED FOR LAYOUT PURPOSES.

- PRECAST CONCRETE BLOCK GRAVITY WALL
- CONCRETE AROUND PIPE SHALL BE PROVIDED FOR THE PROPOSED 24" OPTION III CULVERT SHOWN ON THE PLANS. THE CONCRETE AREA SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS PREPARED IN ACCORDANCE WITH SPECIAL PROVISION 635 OF THE CONTRACT DOCUMENTS.
 - ALL MATERIAL NECESSARY FOR THE CONSTRUCTION OF THE CONCRETE AROUND PIPE AREA AND WORK ASSOCIATED WITH THE COMPLETION THEREOF SHALL BE CONSIDERED INCIDENTAL TO ITEM 635.31. PREFABRICATED CONCRETE BLOCK GRAVITY WALL. NO SEPARATE PAY ITEM SHALL BE MADE.
 - DIMENSIONS OF THE CONCRETE AREA SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL BE ADEQUATE FOR THE PROPOSED 24" OPTION III CULVERT.
 - SEE SHEET IIA FOR ADDITIONAL WALL NOTES.

HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

6452

SIGNATURE

6452

P.E. NUMBER

DATE

DESIGNED

BY

DATE

DRAWN

RWH

08/09

CHECKED

MPC

08/09

REVISIONS 1

DCE

08/09

REVISIONS 2

08/09

REVISIONS 3

REVISIONS 4

REVISIONS 5

REVISIONS 6

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

RETAINING WALL DETAILS

SHEET NUMBER

11B

OF 69

STA. A 4654+23.03, 9.42' LT CONST. B =
STA. 0+98.03 WALL B

STA. A 4653+50.00, 9.42' LT CONST. B =
STA. 0+25.00 WALL B

WALL #2

A 4653+00

A 4654+00

1+00

WALL #1

LIMERICK ROAD: WALL #2 PLAN

N.T.S.

0+00 1+00 1+25

105 100 95 90 85 80

EXISTING GROUND (FRONT FACE OF WALL)

PROPOSED SLOPE AROUND WALL (TYP.)

BEGIN WALL STA. 0+25.00

ELEV. = 93.34'

PROP. TOP OF WALL

PROP. EDGE OF TRAIL ELEV. = 94.84'

ELEV. = 96.34'

END WALL STA. 0+98.03

ELEV. = 93.34'

ELEV. = 91.84'

ELEV. = 90.34'

ELEV. = 88.84'

ELEV. = 87.34'

ELEV. = 85.84'

PROP. CONCRETE AROUND PIPE

PROP. 24" OPTION III CULVERT PIPE

LIMERICK ROAD: WALL#2 ELEVATION
N.T.S.

4 FT PVC COATED CHAIN
LINK FENCE, FENCE
POST LOCATED AT
BACK FACE OF WALL

3'-5" 12' TRAIL WIDTH 3'-5"

2:1 MAX

WALL #2

COMMON BORROW

DRAINAGE AGGREGATE

GEOGRID REINFORCEMENT
(AS REQUIRED)

WALL #1

6" DRAIN PIPE - OUTLET AT
END OF WALL

APPROXIMATE EXISTING GROUND

VARIABLE WIDTH FOUNDATION
SEE SPECIAL PROVISION SECTION 635
FOR MATERIAL AND CONSTRUCTION DETAILS

1.00' MIN

1.00' MIN

1.00' MIN

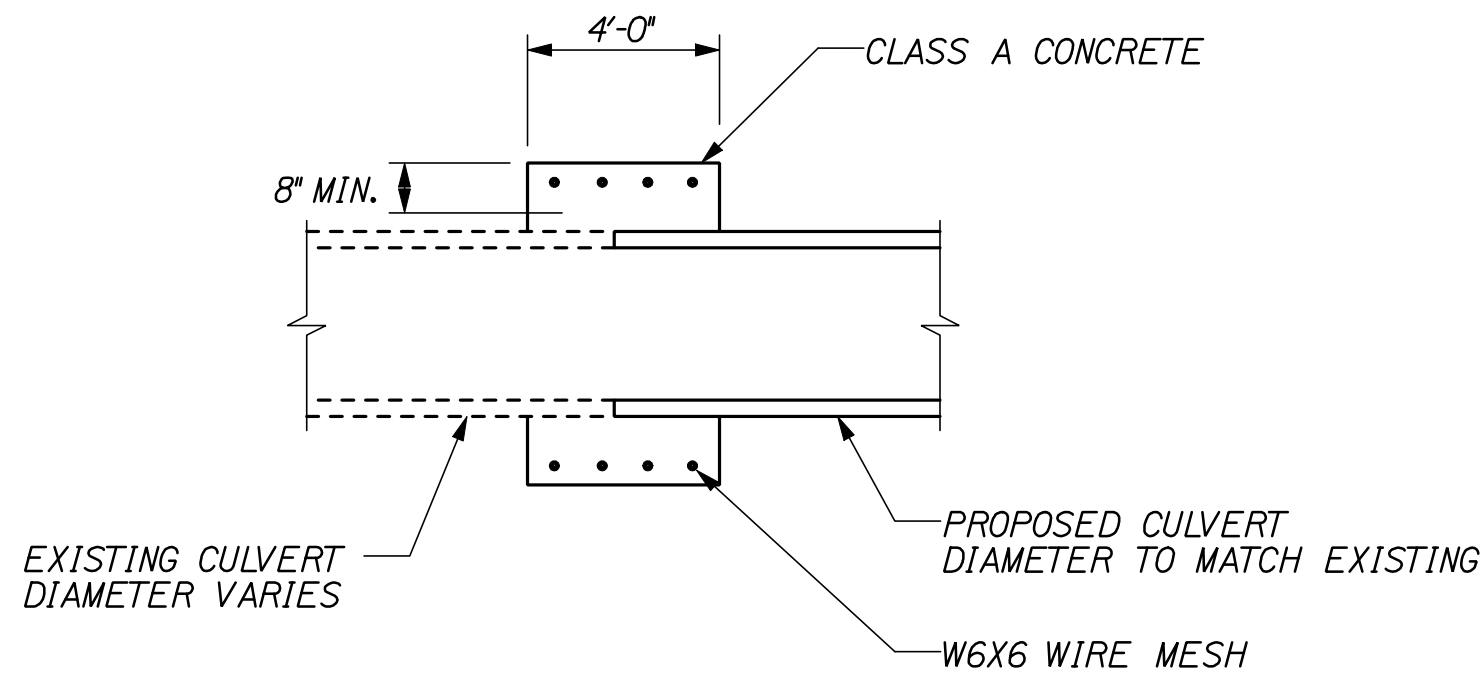
EXIST. GAS MAIN
(LOCATION VARIES,
DEPTH UNKNOWN)

MIN = 5.00'

LIMERICK ROAD WALL #2 TYPICAL SECTION
N.T.S

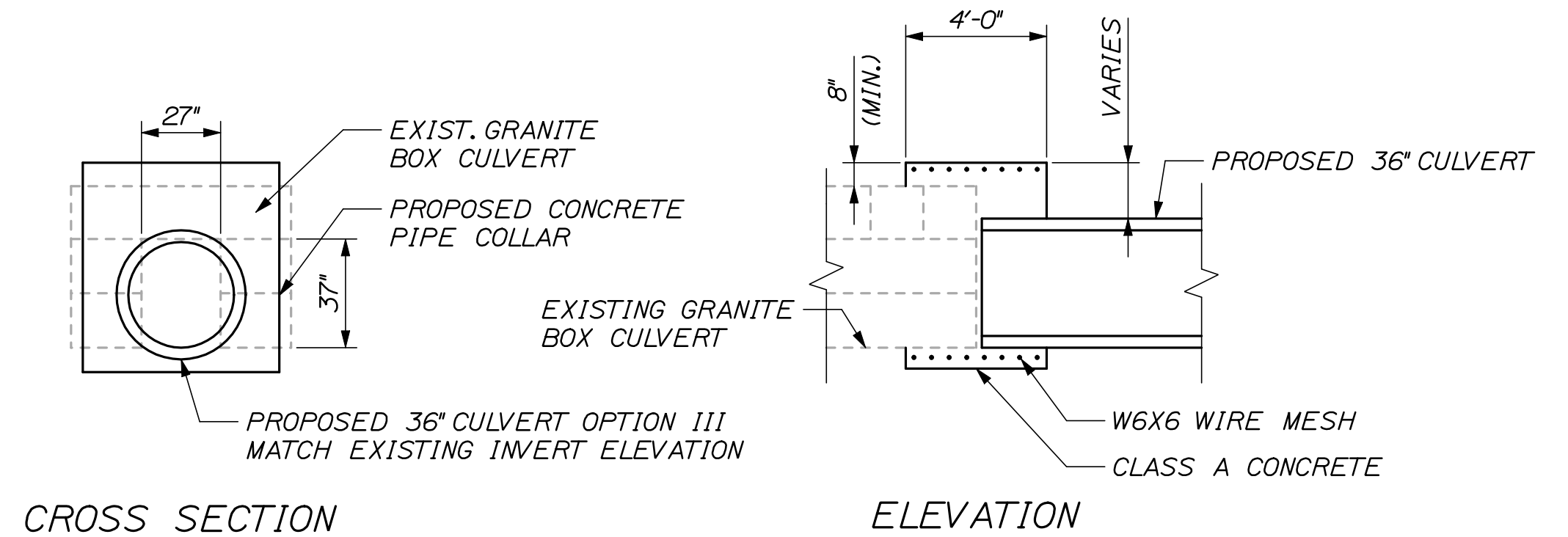
- NOTE:
1. SEE PLAN AND ELEVATION FOR LOCATION AND HEIGHT OF PROPOSED RETAINING WALLS.
 2. 1'-6" HIGH X 46 1/8" LONG X 4" WIDE BLOCK USED FOR LAYOUT PURPOSES.

- PRECAST CONCRETE BLOCK GRAVITY WALL.
1. CONCRETE AROUND PIPE SHALL BE PROVIDED FOR THE PROPOSED 24" OPTION III CULVERT SHOWN ON THE PLANS. THE CONCRETE AREA SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS PREPARED IN ACCORDANCE WITH SPECIAL PROVISION 635 OF THE CONTRACT DOCUMENTS.
 2. ALL MATERIAL NECESSARY FOR THE CONSTRUCTION OF THE CONCRETE AROUND PIPE AREA AND WORK ASSOCIATED WITH THE COMPLETION THEREOF SHALL BE CONSIDERED INCIDENTAL TO ITEM 635.31 PREFABRICATED CONCRETE BLOCK GRAVITY WALL. NO SEPARATE PAY ITEM SHALL BE MADE.
 3. DIMENSIONS OF THE CONCRETE AREA SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL BE ADEQUATE FOR THE PROPOSED 24" OPTION III CULVERT.
 4. SEE SHEET IIA FOR ADDITIONAL WALL NOTES.



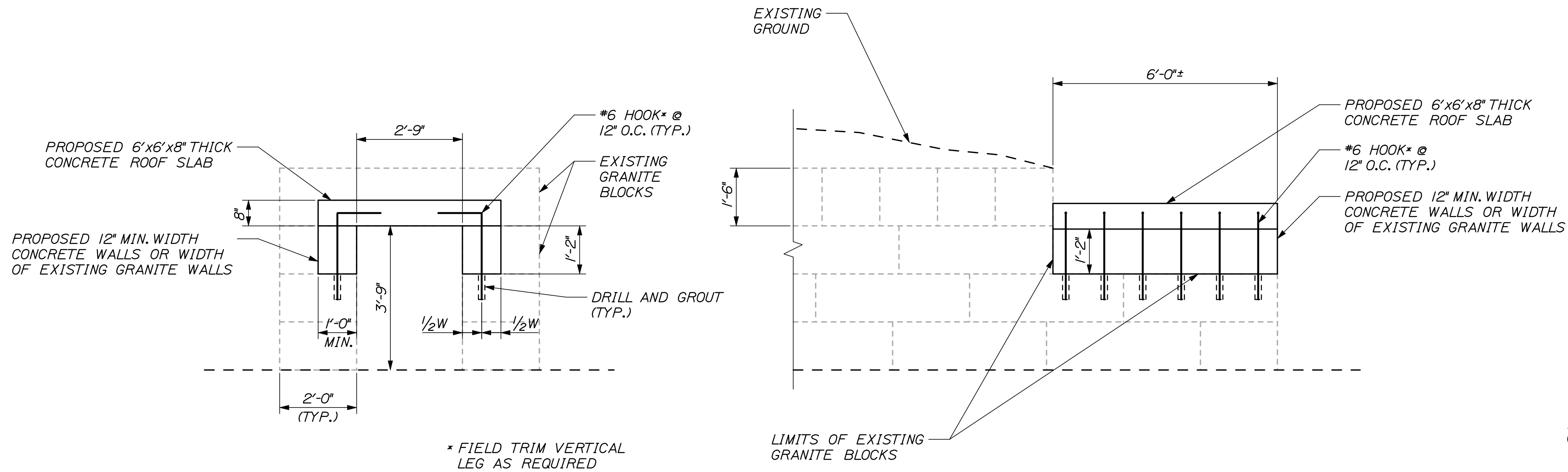
CONCRETE PIPE COLLAR DETAIL #1
STA. 4551+40, LT.

- NOTES:**
1. SEE SPECIAL PROVISION, SECTION 603, CONCRETE PIPE COLLAR FOR CONSTRUCTION REQUIREMENTS.
 2. CONCRETE PIPE COLLARS REQUIRED FOR ALL DRAINAGE PIPE EXTENSIONS.



CONCRETE PIPE COLLAR DETAIL #2
STA. 4601+50, LT.

- NOTES:**
1. SEE SPECIAL PROVISION, SECTION 603, CONCRETE PIPE COLLAR FOR CONSTRUCTION REQUIREMENTS.
 2. CONCRETE PIPE COLLARS REQUIRED FOR ALL DRAINAGE PIPE EXTENSIONS.

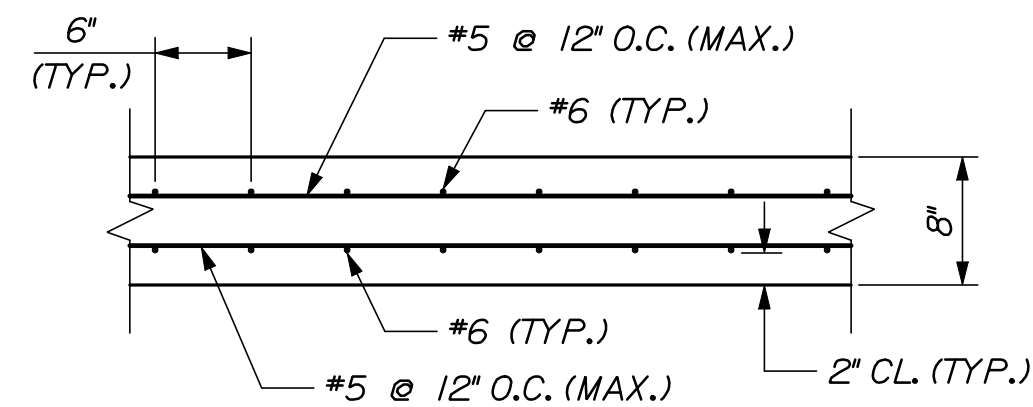


CROSS SECTION

ELEVATION

BOX CULVERT EXTENSION DETAIL
STA. 4707+50, LT.

- NOTES:**
1. SEE SPECIAL PROVISION, SECTION 502, STRUCTURAL CONCRETE BOX CULVERT FOR CONSTRUCTION REQUIREMENTS.
 2. ALL WORK ASSOCIATED WITH BOX CULVERT EXTENSION AT STA. 4707+50, LT. SHALL BE PAID FOR UNDER ITEM 502.327.
 3. CONCRETE SHALL BE CLASS A.
 4. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION 503, REINFORCING STEEL.



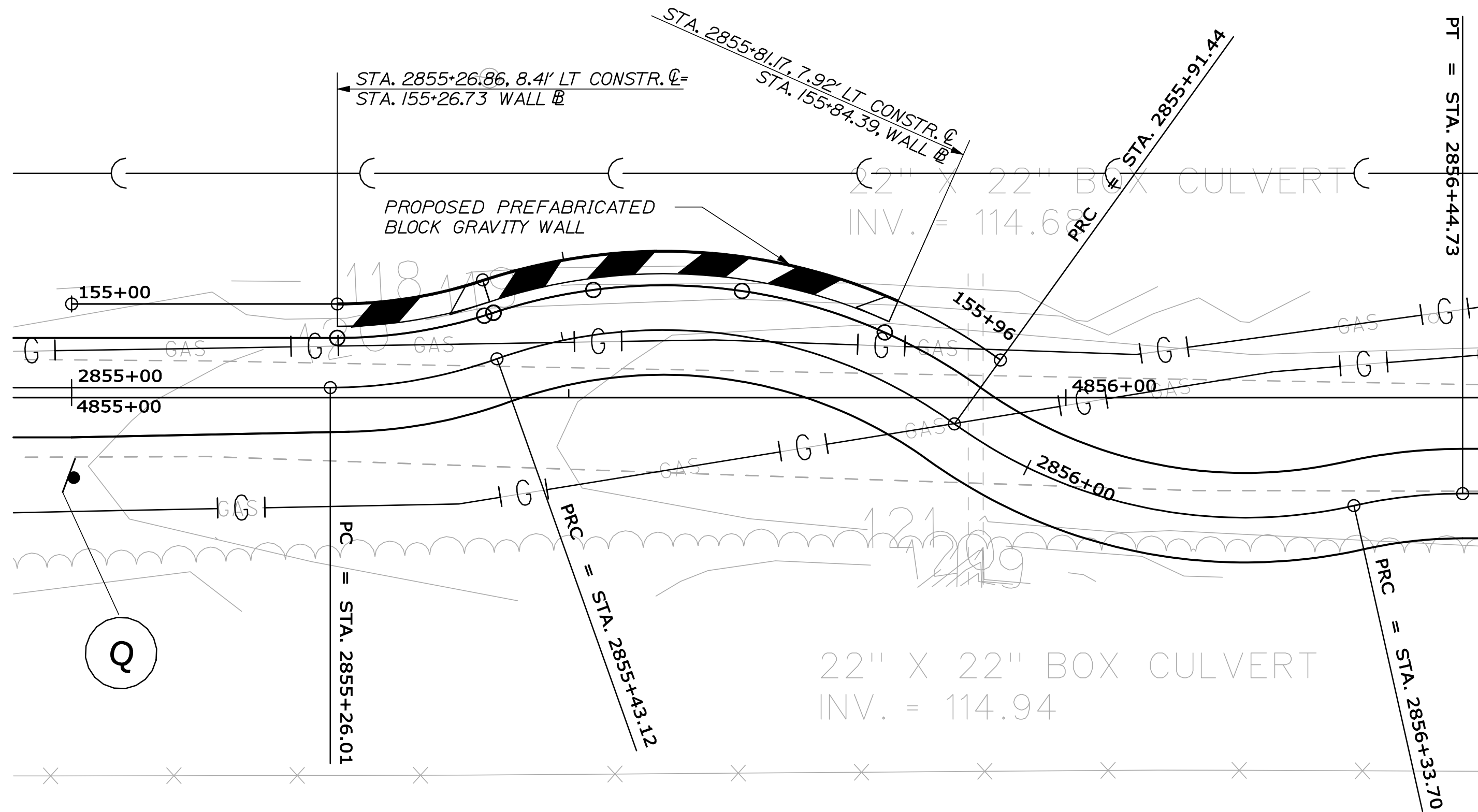
PROPOSED ROOF SLAB SECTION
(CUT ALONG CULVERT CL)

DESIGNED	BY	DATE	SIGNATURE
DGE	DGE	08/09	
DRAWN	MFC	08/09	
CHECKED	TRC	08/09	
REVISIONS 1	SHEET ADDED	08/09	6452
REVISIONS 2			P.E. NUMBER
REVISIONS 3			DATE
REVISIONS 4			
REVISIONS 5			
REVISIONS 6			

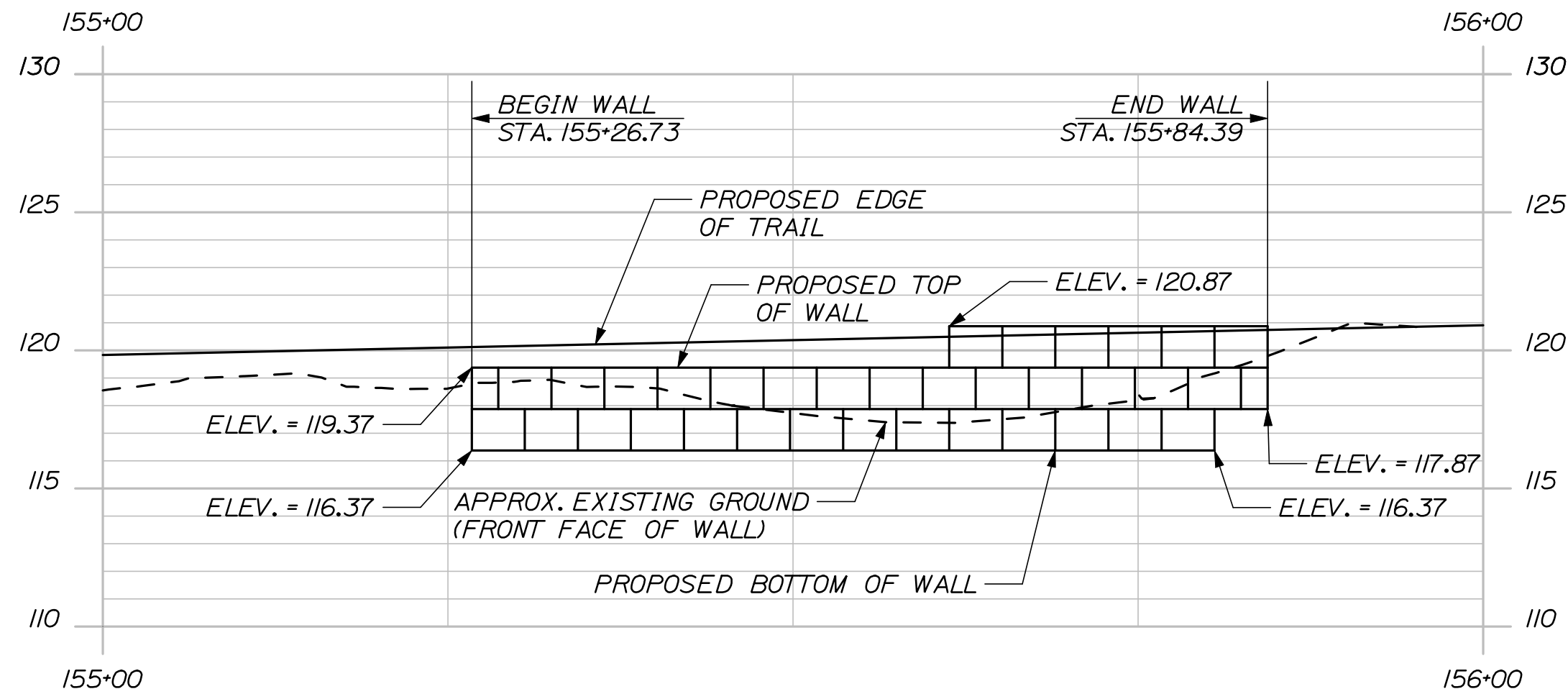
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
CULVERT EXTENSION DETAILS

Date:1/14/2010

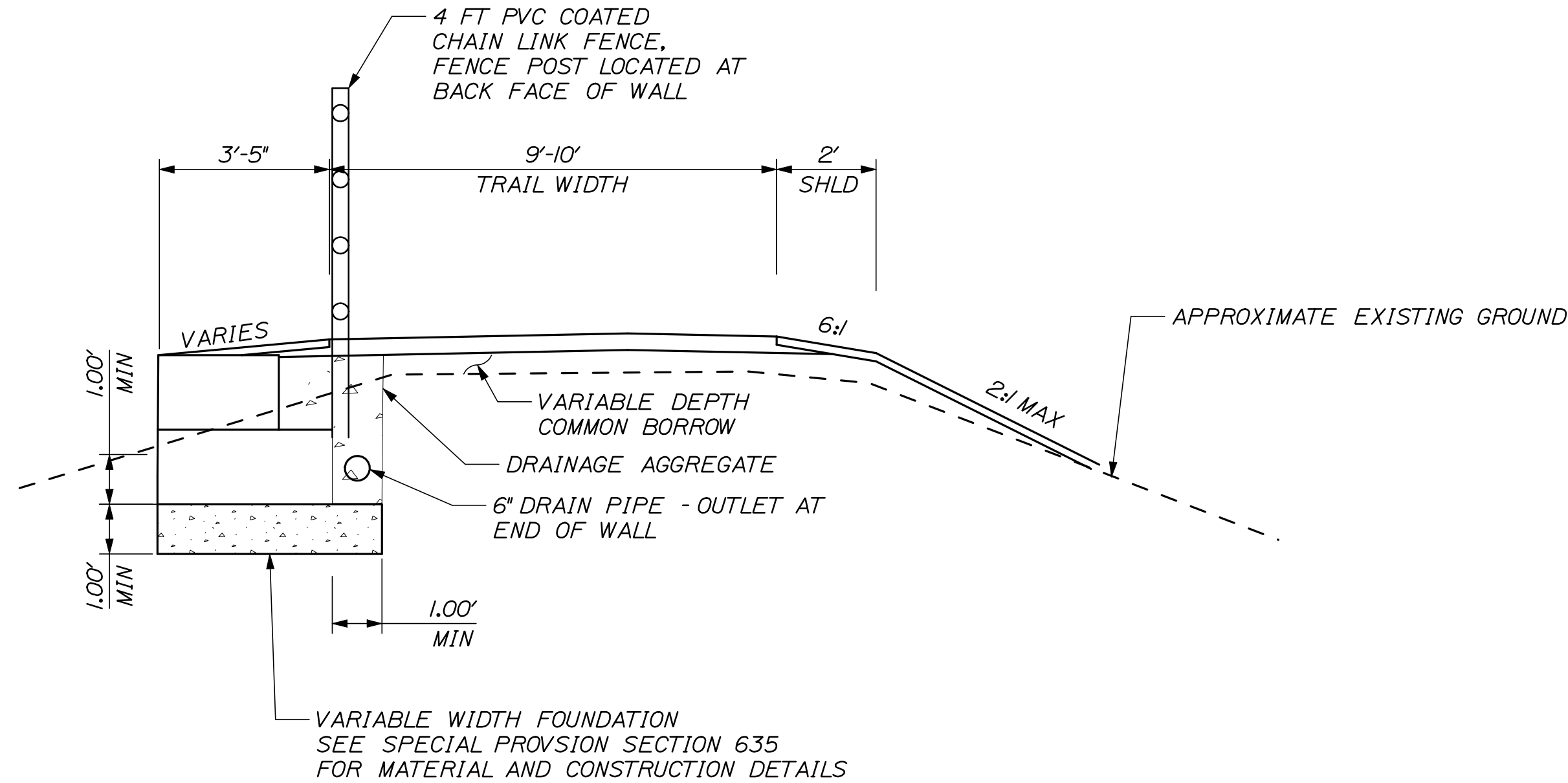
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WEST COLE ROAD APPROACH: PLAN
N.T.S.



WEST COLE ROAD APPROACH: WALL ELEVATION
N.T.S.



WEST COLE ROAD APPROACH: WALL TYPICAL SECTION
N.T.S.

- NOTE:
- SEE PLAN AND ELEVATION FOR LOCATION AND HEIGHT OF PROPOSED RETAINING WALLS.
 - 1'-6" HIGH X 46 1/8" LONG X 4" WIDE BLOCK USED FOR LAYOUT PURPOSES.

PRECAST CONCRETE BLOCK GRAVITY WALL

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- THE FACE QUANTITY OF PRECAST CONCRETE BLOCK WALL WILL BE APPROVED BY THE PROJECT ENGINEER.

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
RETAINING WALL DETAILS

SHEET NUMBER

11E

OF 69

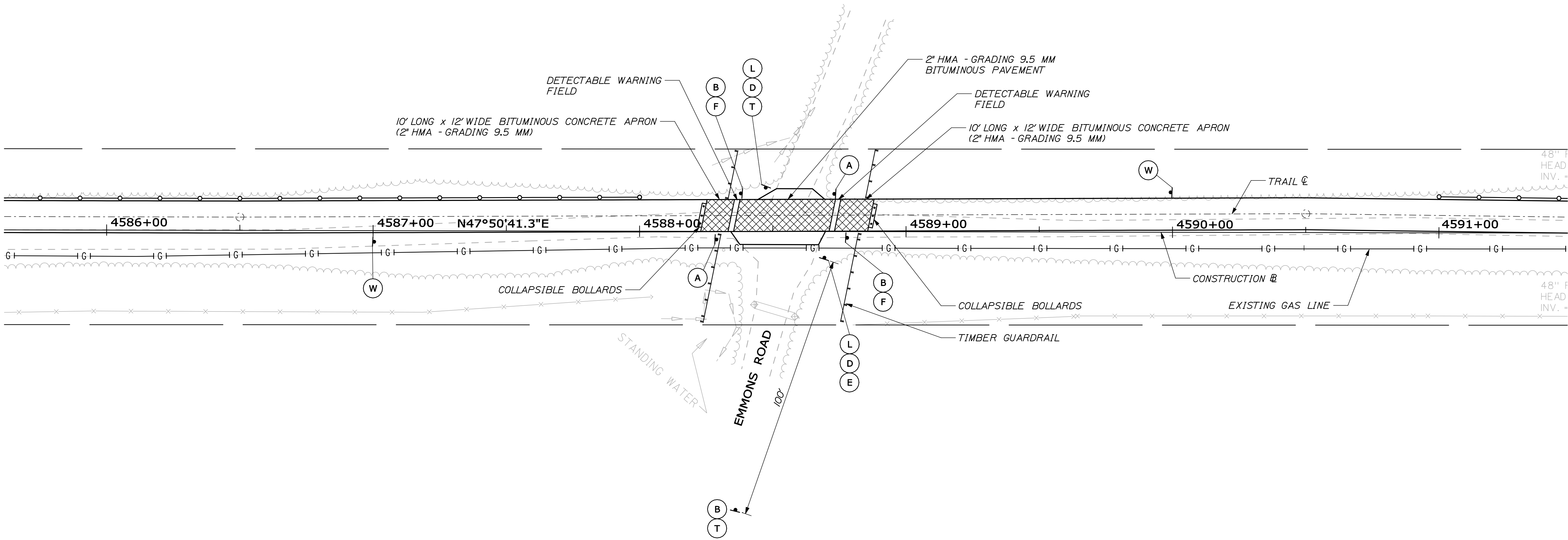
HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	DRAWN	CHECKED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6
BY	DATE	SIGNATURE	P.E. NUMBER	DATE				
RWH	01/0		6452					
DCE	01/0							
SHEET ADDED	01/0							

Date:8/17/2009

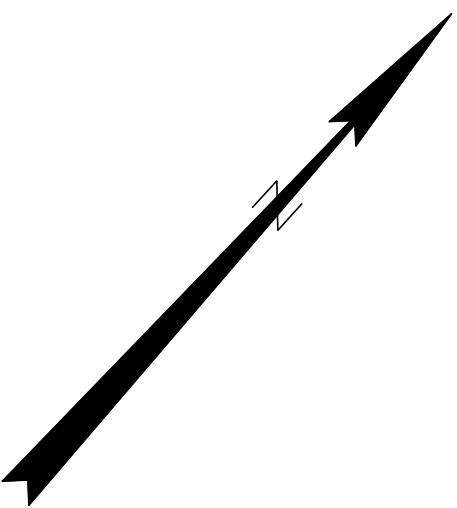
Filename: 50A_EmmonsRoad.dgn



LEGEND
 SIGN
 SIGN DESIGNATION - SEE SIGNING DETAILS FOR SIGN DESCRIPTIONS

NOTES:
1. SEE TRAIL PLANS FOR CURVE DATA AND STATION EQUATIONS.
2. SEE DETAIL SHEET FOR MORE INFORMATION ON COLLAPSIBLE BOLLARDS AND DETECTABLE WARNING FIELDS.

NOTE:
TRAIL SHOULDERS NOT SHOWN FOR CLARITY



2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED

BY

DATE

DRAWN

BY

DATE

CHECKED

BY

DATE

REVISIONS 1

BY

DATE

REVISIONS 2

BY

DATE

REVISIONS 3

BY

DATE

REVISIONS 4

BY

DATE

REVISIONS 5

BY

DATE

REVISIONS 6

BY

DATE

SIGNATURE

6452

P.E. NUMBER

DATE

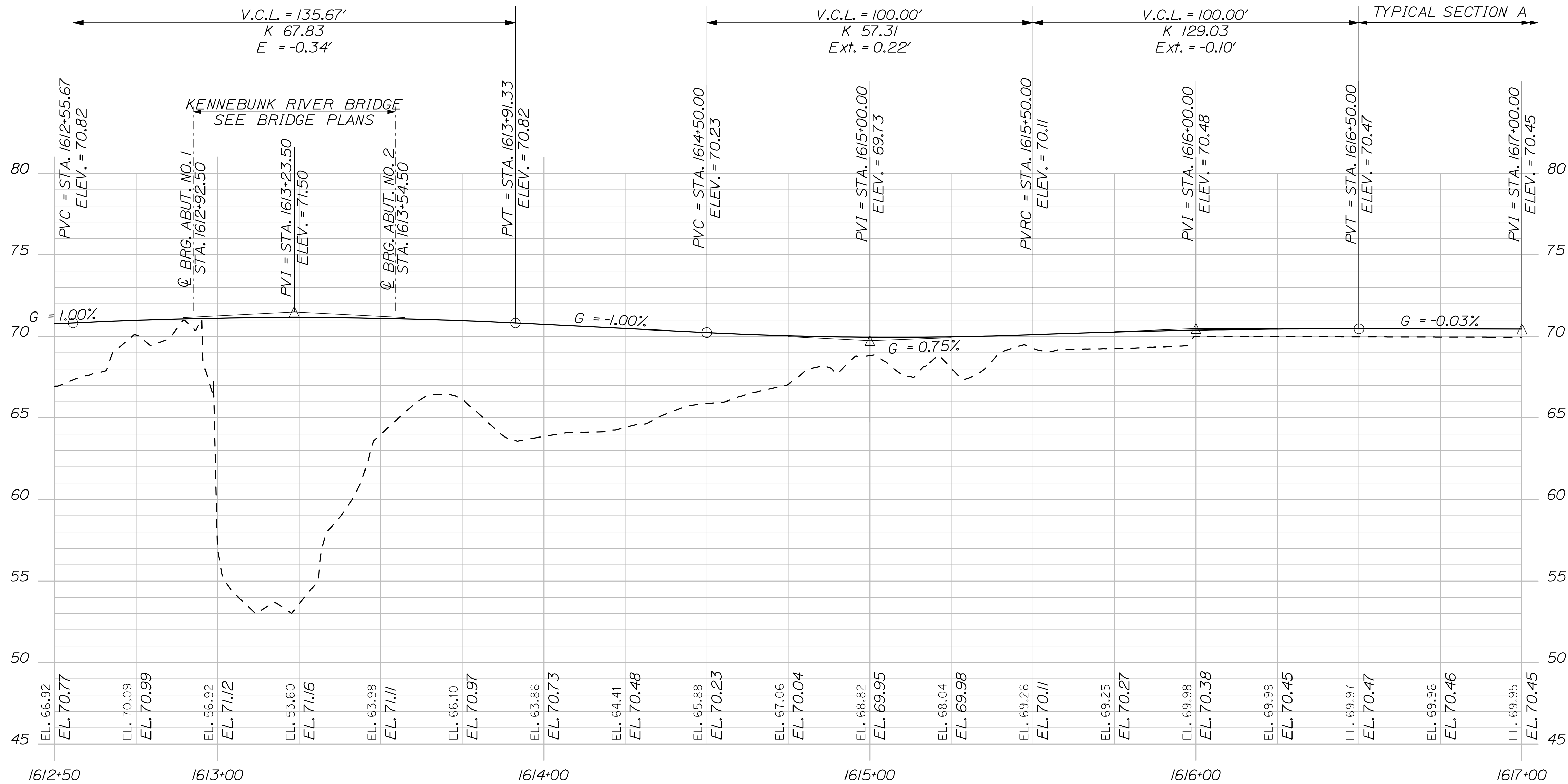
EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

EMMONS ROAD CROSSING PLAN

SHEET NUMBER

50A

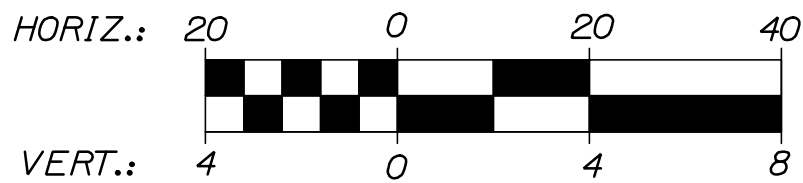
OF 69



PROFILE

REVISED PROFILE

--- APPROXIMATE EXISTING GROUND
— FINAL VERTICAL ALIGNMENT



EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER BRIDGE PROFILE

SHEET NUMBER
62A
OF 69

DESIGNED	BY	DATE
DRAWN	AZ	06/08
CHECKED	MPC	06/08
LEW	LEW	06/08
REVISIONS 1	REV. PROFILE	08/08
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
REVISIONS 6		

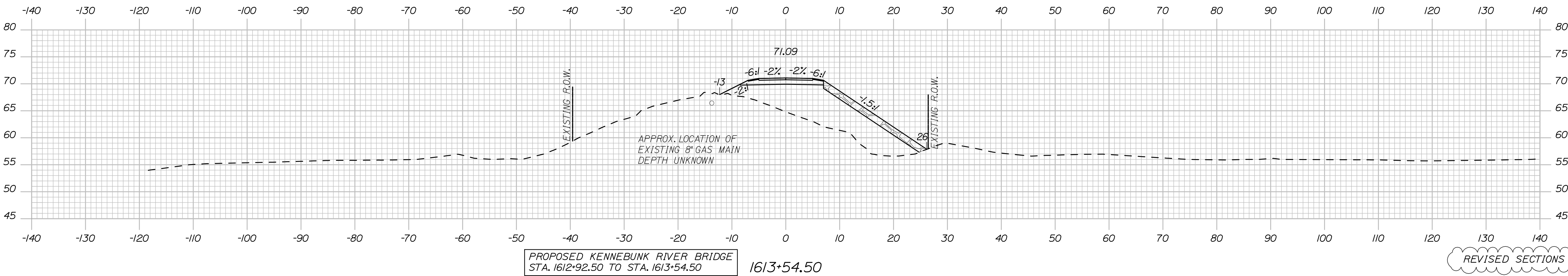
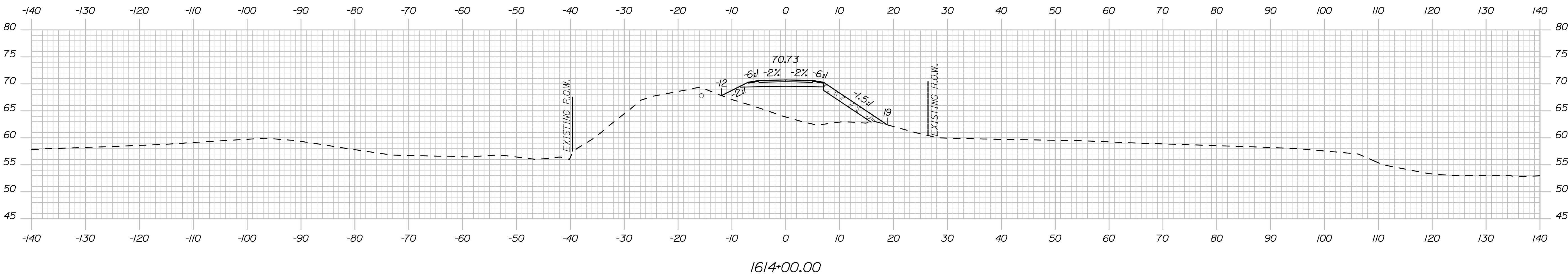
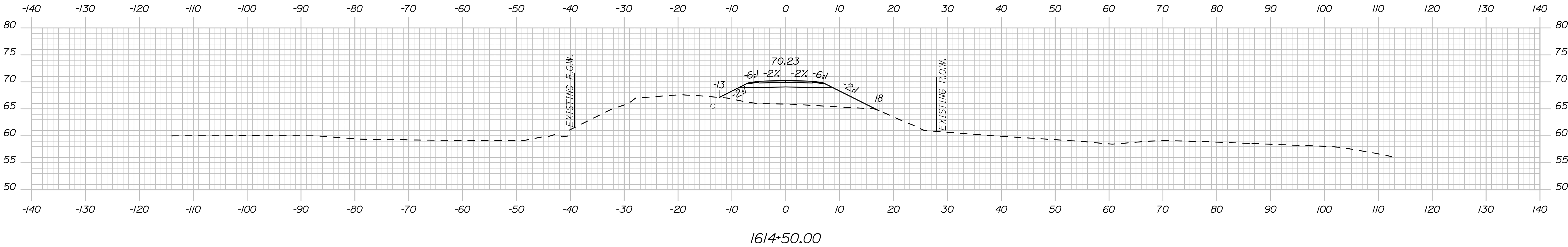
SIGNATURE	P.E. NUMBER	DATE
	6452	

Date:8/17/2009

Username: mcurdfff

Division: BRIDGE

Filename: 64A_KennebunkRiver XSec_3.dgn



HNTB

2 THOMAS DRIVE
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED
AZ

DRAWN
MPC

CHECKED
LEW

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

REVISIONS 5

REVISIONS 6

DATE
06/09

DATE
06/09

DATE
06/09

DATE
08/09

DATE

DATE

DATE

DATE

DATE

SIGNATURE

6452

P.E. NUMBER

DATE

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE
KENNEBUNK RIVER APPROACH CROSS SECTIONS

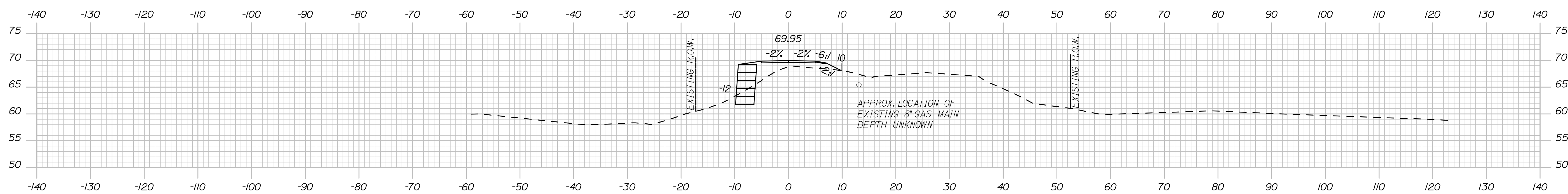
SHEET NUMBER

64A

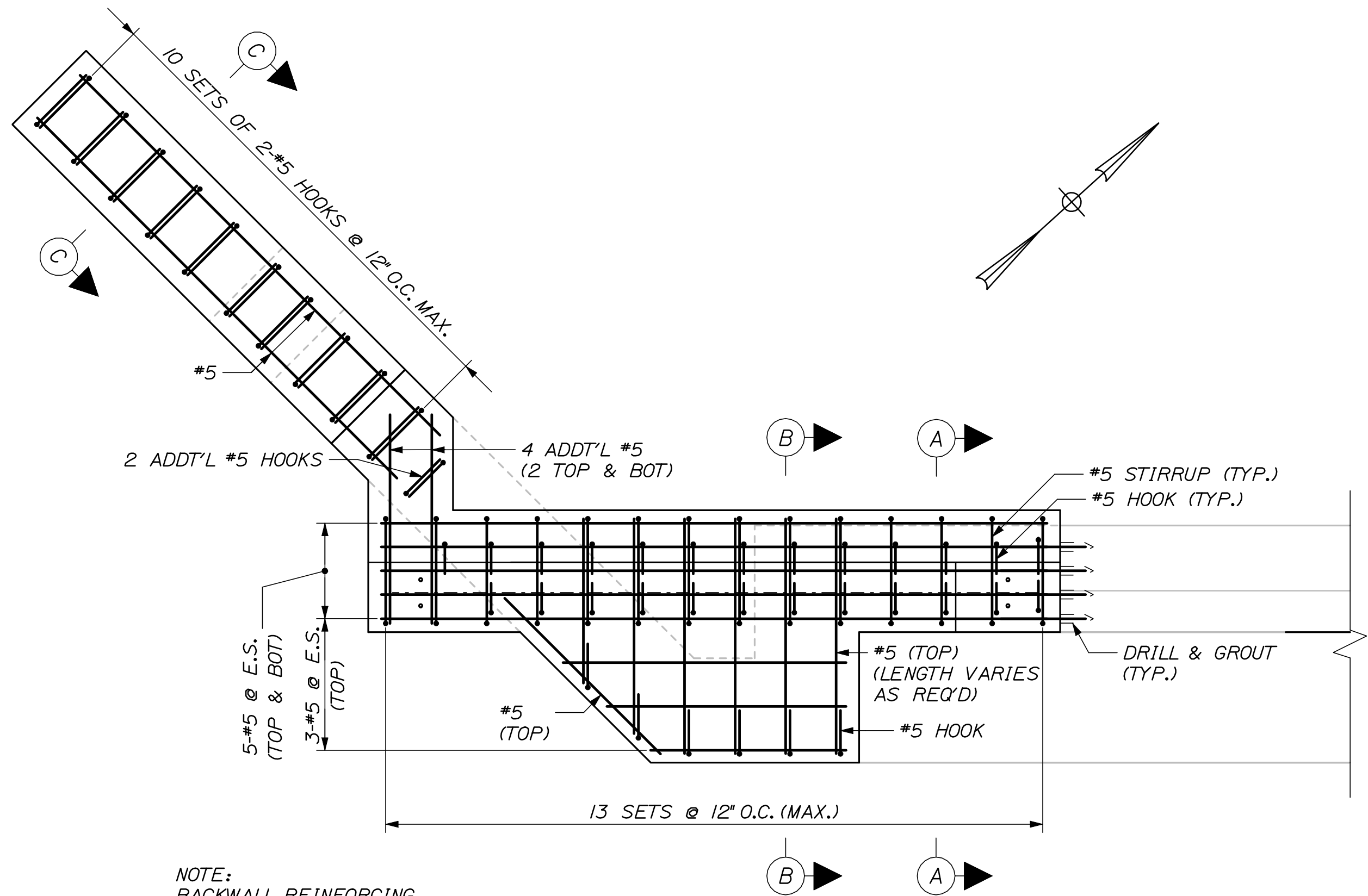
OF 69

Sta. 1613+54.50 to Sta. 1614+50.00

Filename: 64B_KennebunkRiver XSec_4.dgn

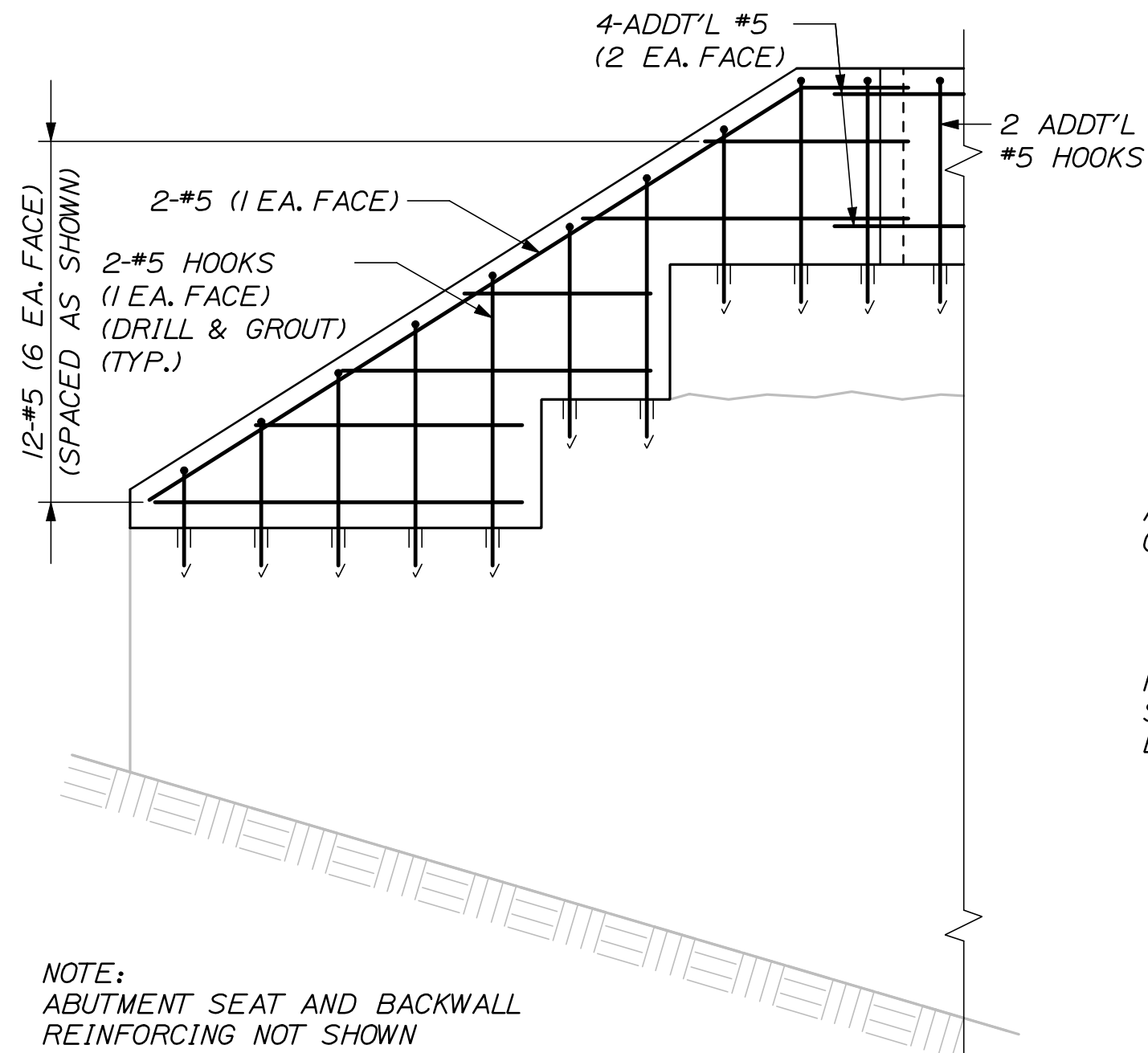


REVISED SECTIONS



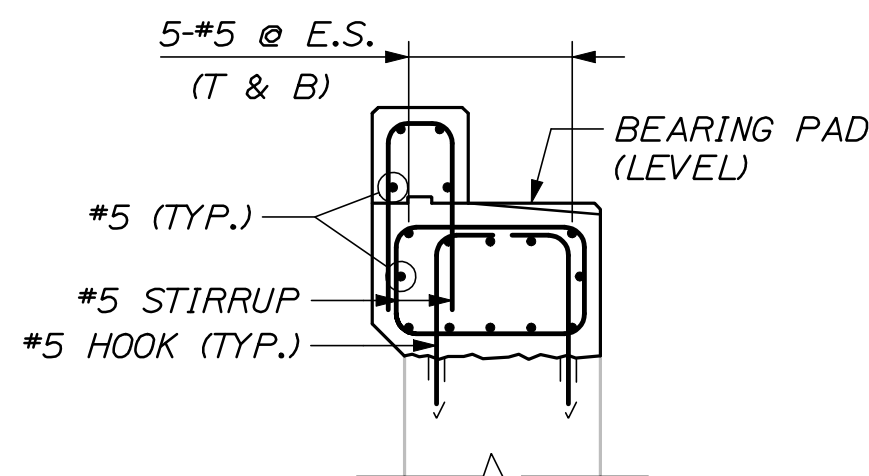
NOTE:
BACKWALL REINFORCING
NOT SHOWN.

ABUTMENT NO. 1 - PLAN
(REINFORCING)
1/2" = 1'-0"

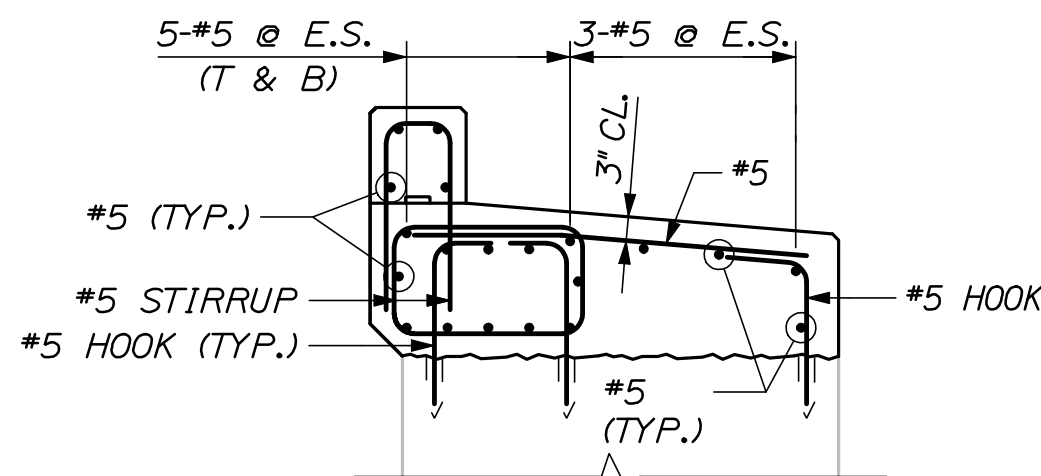


NOTE:
ABUTMENT SEAT AND BACKWALL
REINFORCING NOT SHOWN

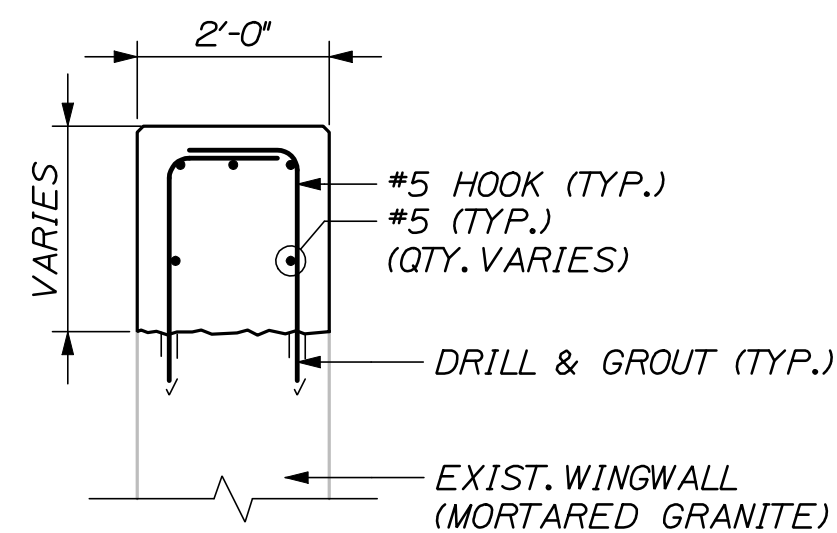
WINGWALL REINFORCING
1/2" = 1'-0"



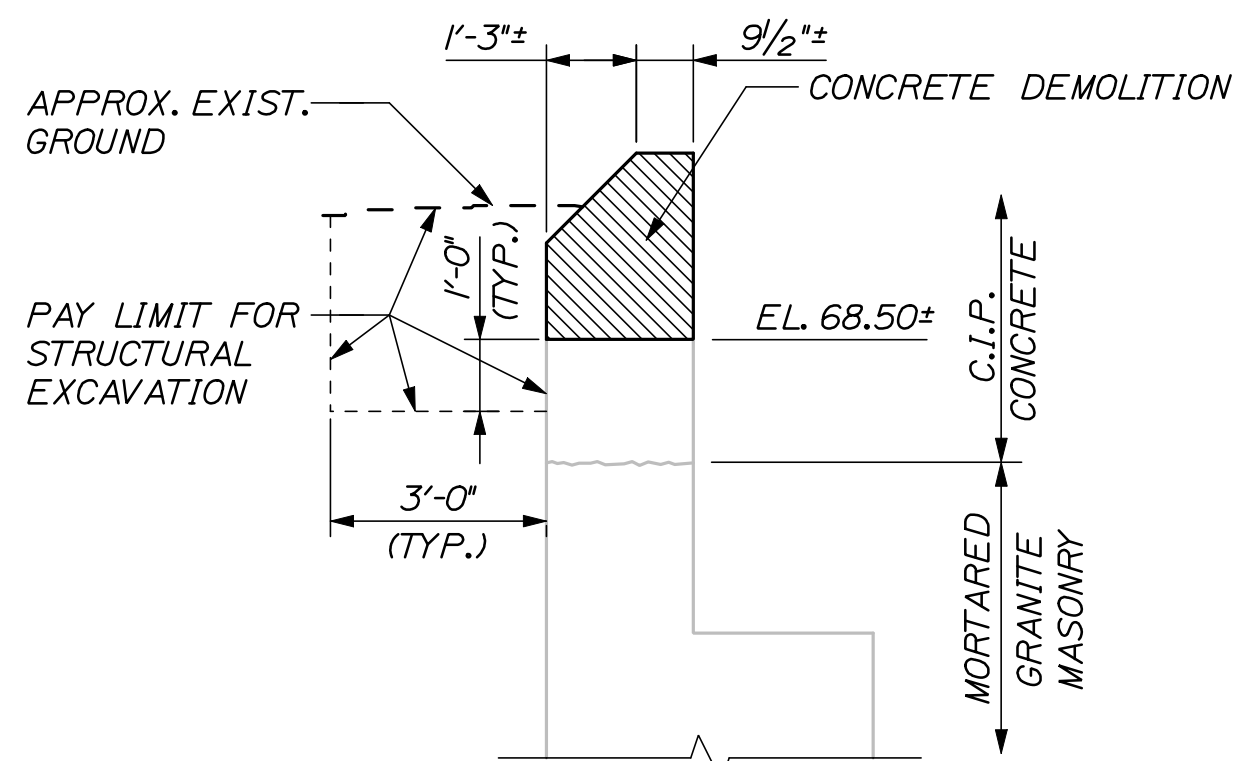
DETAIL A
1/2" = 1'-0"



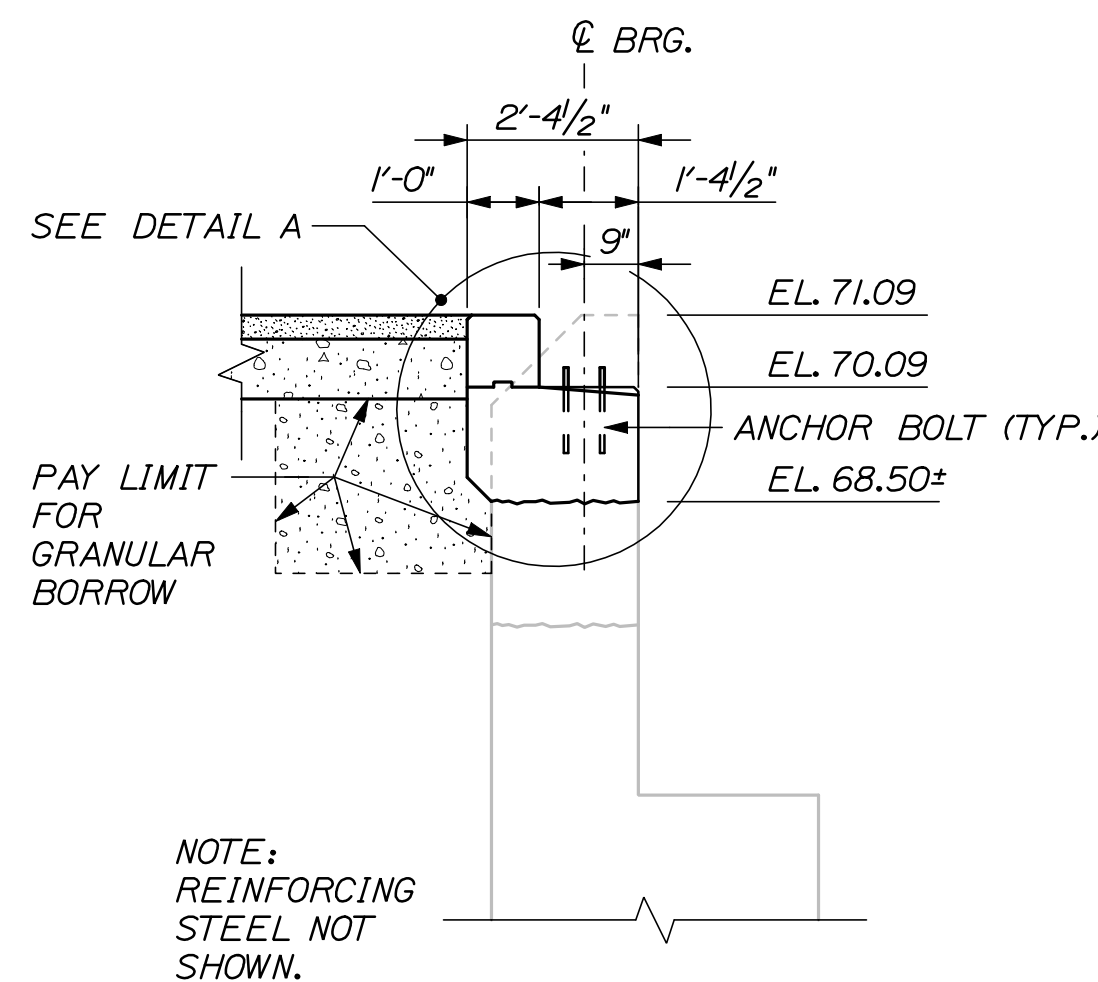
DETAIL B
1/2" = 1'-0"



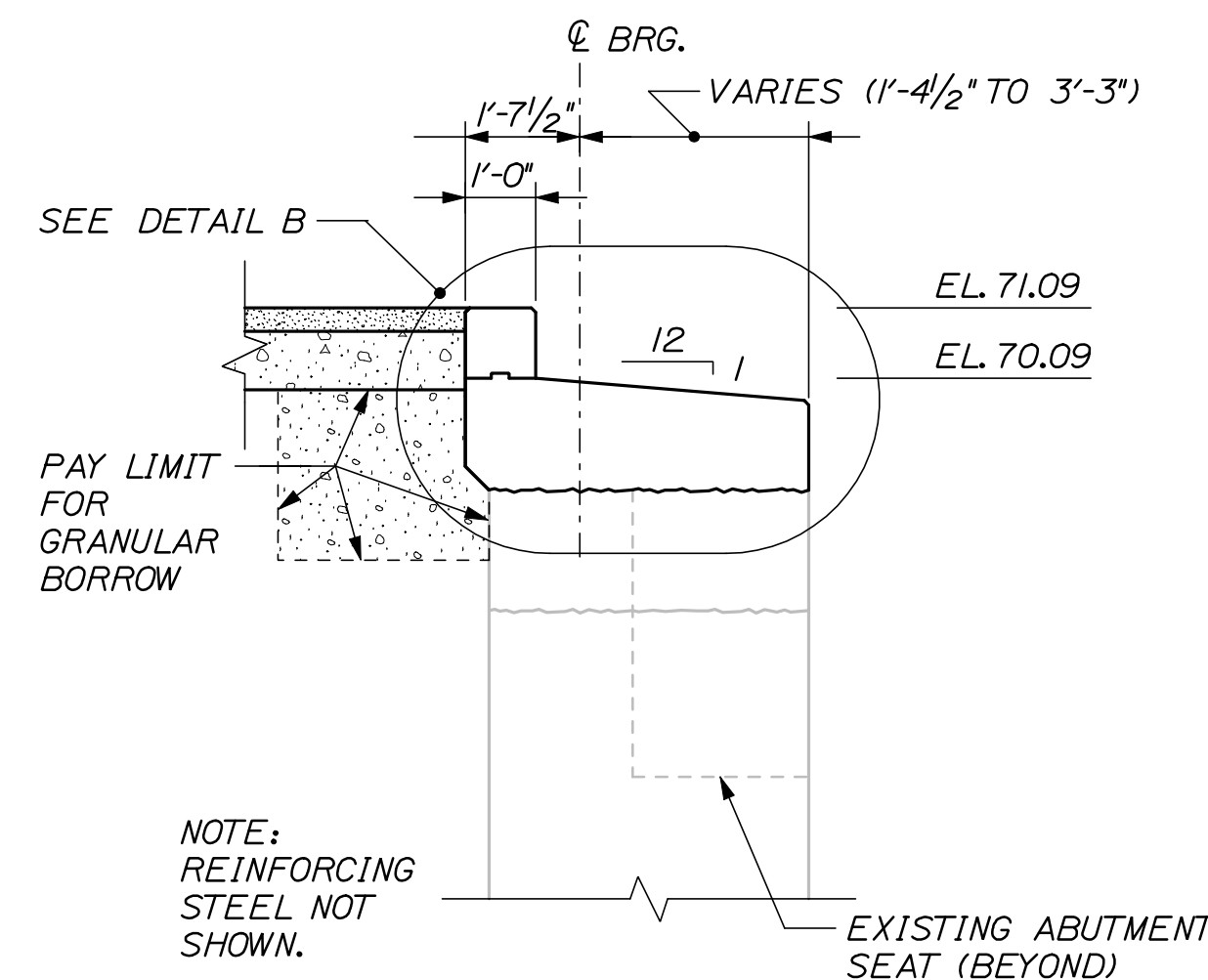
SECTION C-C
1/2" = 1'-0"



SECTION A-A
(DEMOLITION)
3/8" = 1'-0"



SECTION A-A
(PROPOSED CONSTRUCTION)
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"

NOTES:

1. ALL ELEVATIONS ARE BASED ON FIELD MEASUREMENTS AND SURVEY AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND DIMENSIONS AS APPROPRIATE PRIOR TO STARTING WORK.

2. ALL CONCRETE SHALL BE CLASS A, AND SHALL BE PAID UNDER ITEM 502.219, STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS.

3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".

4. WHERE DRILLING AND GROUTING OF REINFORCING STEEL IS SPECIFIED, THE ANCHORING MATERIAL SHALL BE ONE OF THE PRODUCTS LISTED ON THE MAINE DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST OF CHEMICAL ANCHORING MATERIALS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EMBEDMENT DEPTH SHALL BE SUFFICIENT TO DEVELOP THE FULL YIELD STRENGTH OF THE BAR. FOR EXISTING CONCRETE, $f'_c = 3,000$ PSI MAY BE ASSUMED. DRILLED AND GROUTED BARS SHALL HAVE 4" COVER.

5. PRIOR TO START OF ABUTMENT MODIFICATIONS, THE EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DEBRIS, AND FOREIGN MATERIAL BY PRESSURE WASHING OR OTHER METHOD DEEMED SUITABLE BY THE RESIDENT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 502.219, STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS.

6. ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE SHALL BE COATED WITH AN EPOXY BONDING AGENT LISTED ON THE MAINE DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST.

7. THE CRACK IN THE EXISTING CONCRETE BACKWALL SHALL BE REPAIRED BY THOROUGHLY CLEANING THE CRACK OF ALL DEBRIS AND THEN TIGHTLY PACKING THE SPACE WITH PORTLAND CEMENT MORTAR. THIS WORK SHALL BE COMPLETED ON A TIME AND MATERIALS BASIS AND SHALL BE PAID UNDER ITEM 502.60 "PORTLAND CEMENT MORTAR FOR REPAIR OF GRANITE ABUTMENTS" AND ITEM 629.05 "HAND LABOR, STRAIGHT TIME".

8. ALL REINFORCING STEEL SHALL BE BLACK BAR AND HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE NOTED. FABRICATION, DELIVERY, AND PLACEMENT OF REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 502.219 "STRUCTURAL CONCRETE ABUTMENTS AND RETAINING WALLS".

9. ALL DEMOLITION LIMITS SHALL BE SAWCUT A MINIMUM OF 1" DEEP PRIOR TO REMOVAL OF CONCRETE. THE CONTRACTOR'S METHOD OF CONCRETE DEMOLITION WILL BE SUBJECT TO REVIEW AND APPROVAL BY UNITIL. CONCRETE REMOVAL WILL LIKELY NEED TO BE COMPLETED WITH HAND HELD CHIPPING HAMMERS.

10. ALL REINFORCING STEEL BAR BENDS SHALL BE IN CONFORMANCE WITH THE LATEST REVISION OF ACI STANDARD 318. MINIMUM LAP LENGTHS SHALL BE AS FOLLOWS:
#5 BARS: 2'-3" MIN.

EASTERN TRAIL MANAGEMENT DISTRICT
MULTI-USE TRAIL CONSTRUCTION
KENNEBUNK, ARUNDEL AND BIDDEFORD, MAINE

KENNEBUNK RIVER - ABUTMENT NO. 1

SHEET NUMBER

65A

OF 69

HNTB

340 COUNTY ROAD, SUITE 6-C
WESTBROOK, ME 04092
(207) 774-5155

DESIGNED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
TRC	TRC	06/09		6452	
DRAWN	MPC	06/09			
CHECKED	LDW	06/09			
REVISIONS 1	SHEET ADDED	08/09			
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
REVISIONS 6					