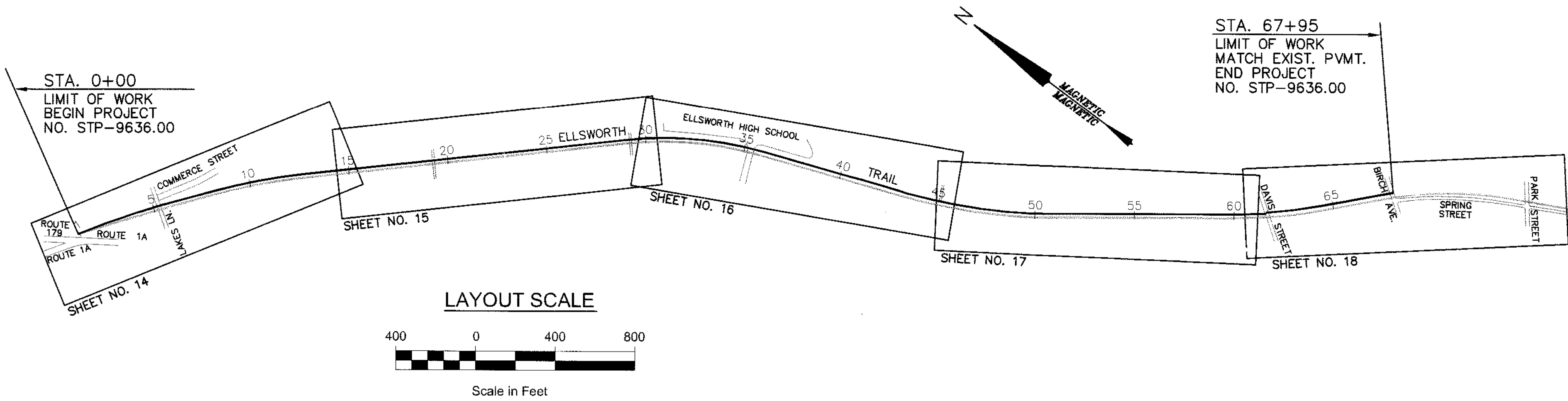
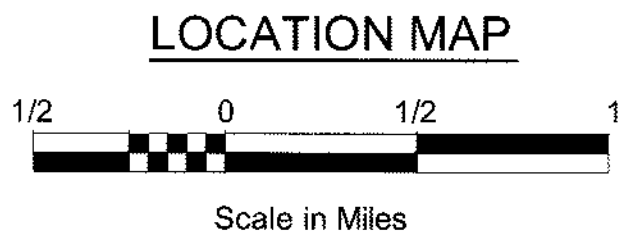
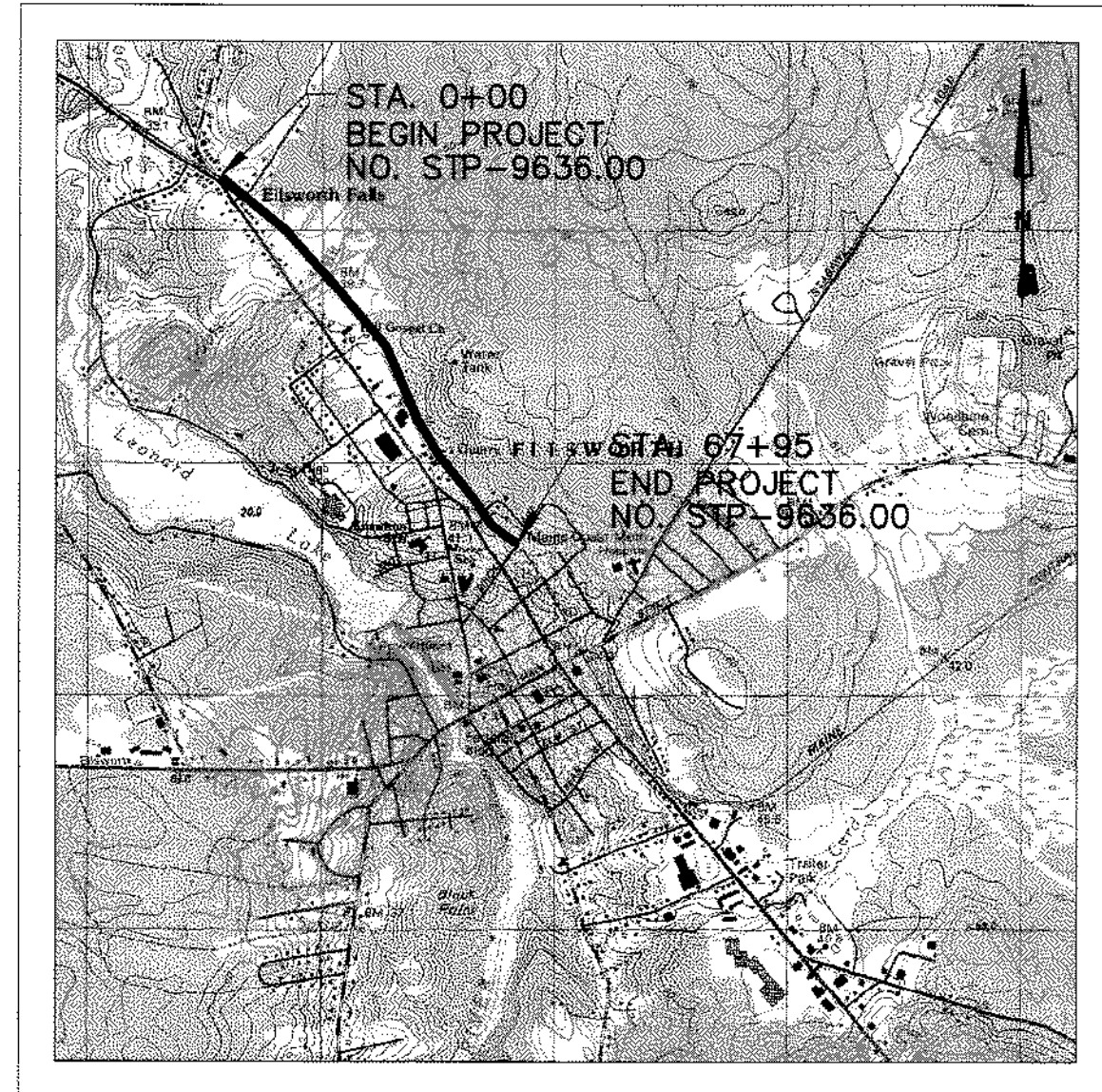


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



ELLSWORTH
HANCOCK COUNTY
ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL
PROJECT NO. STP-9636.00
PROJECT LENGTH : 1.287 MILES
A GRADING, BASE & PAVEMENT PROJECT



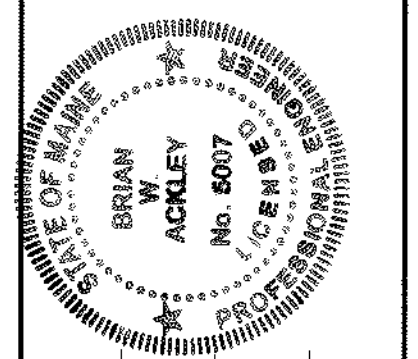
PLAN LEGEND

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

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities	3
General Notes	4
Drainage Summary	5
Drainage Details	6
Construction Details	7
Bollard Details	8
Wall Details	9
Intersection Details	10-12
Sign Summary	13
Plan and Profile	14-18
Cross Sections	19-44
Right of Way Maps	45-54

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER	9/22/10	9/22/10
CHIEF ENGINEER		



SIGNATURE	DATE
8/3/10	

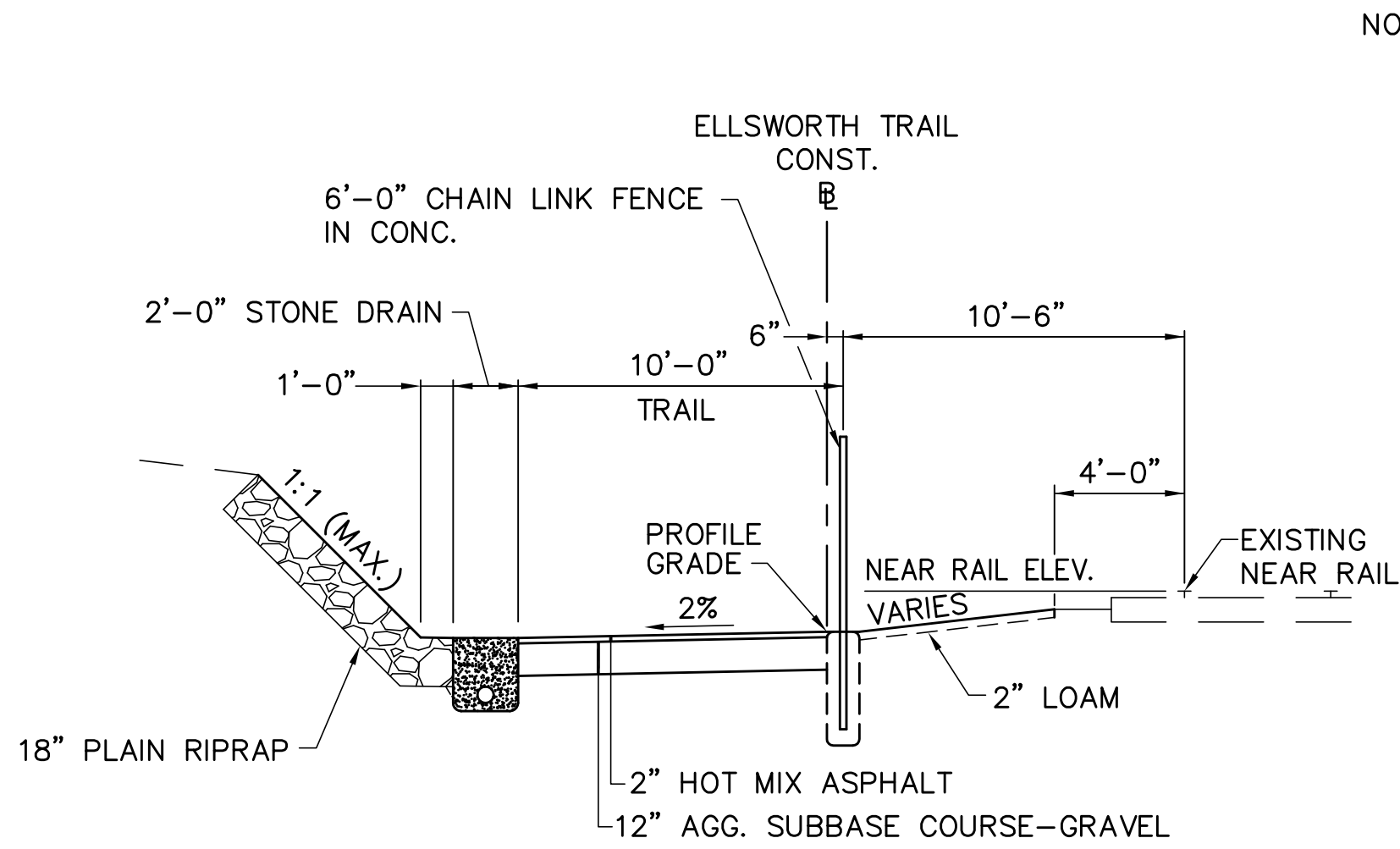
PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
MULTIMODAL	JOEL KITREDE	TETRA TECH RIZZO	TETRA TECH RIZZO				

ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL	TITLE SHEET
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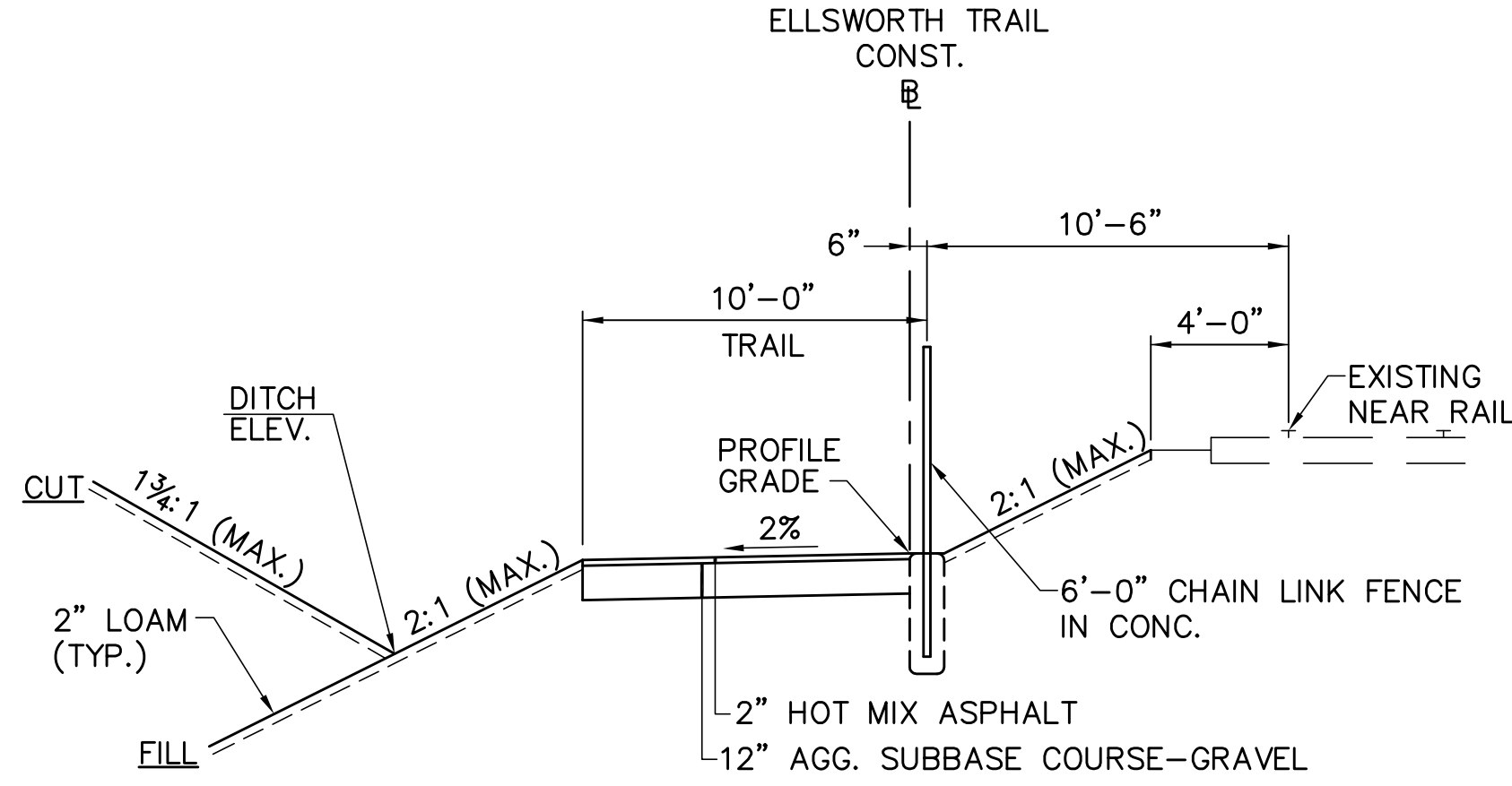
PROGRAM AREA:	MULTIMODAL
SCOPE OF WORK:	NEW CONSTRUCTION OF A SHARED BICYCLE AND PEDESTRIAN PAVED TRAIL ADJACENT TO THE CALAIS BRANCH TRACK THROUGH A PORTION OF ELLSWORTH.

SHEET NUMBER
1
OF 54

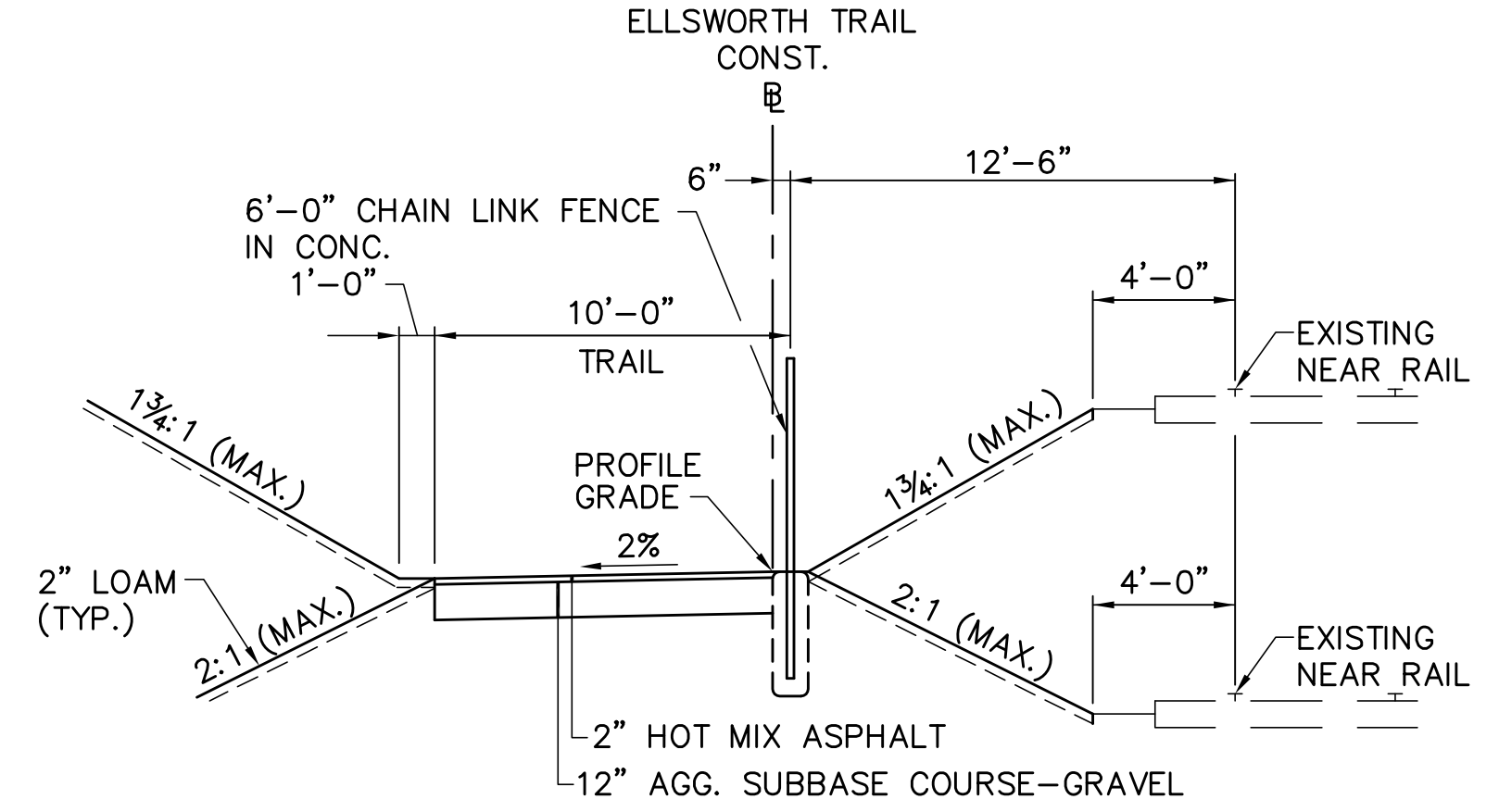
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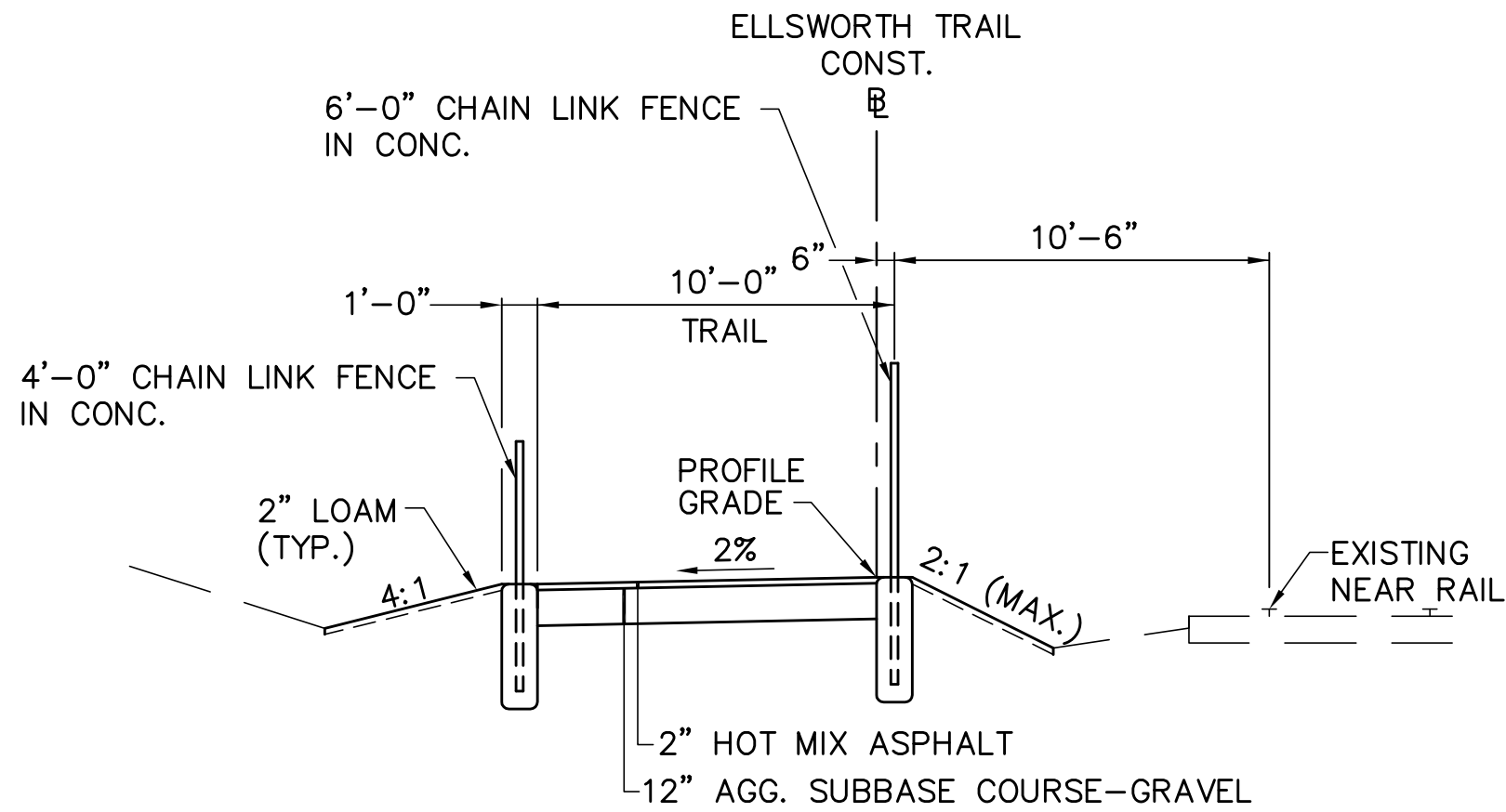
STA 1+00 TO STA 5+07



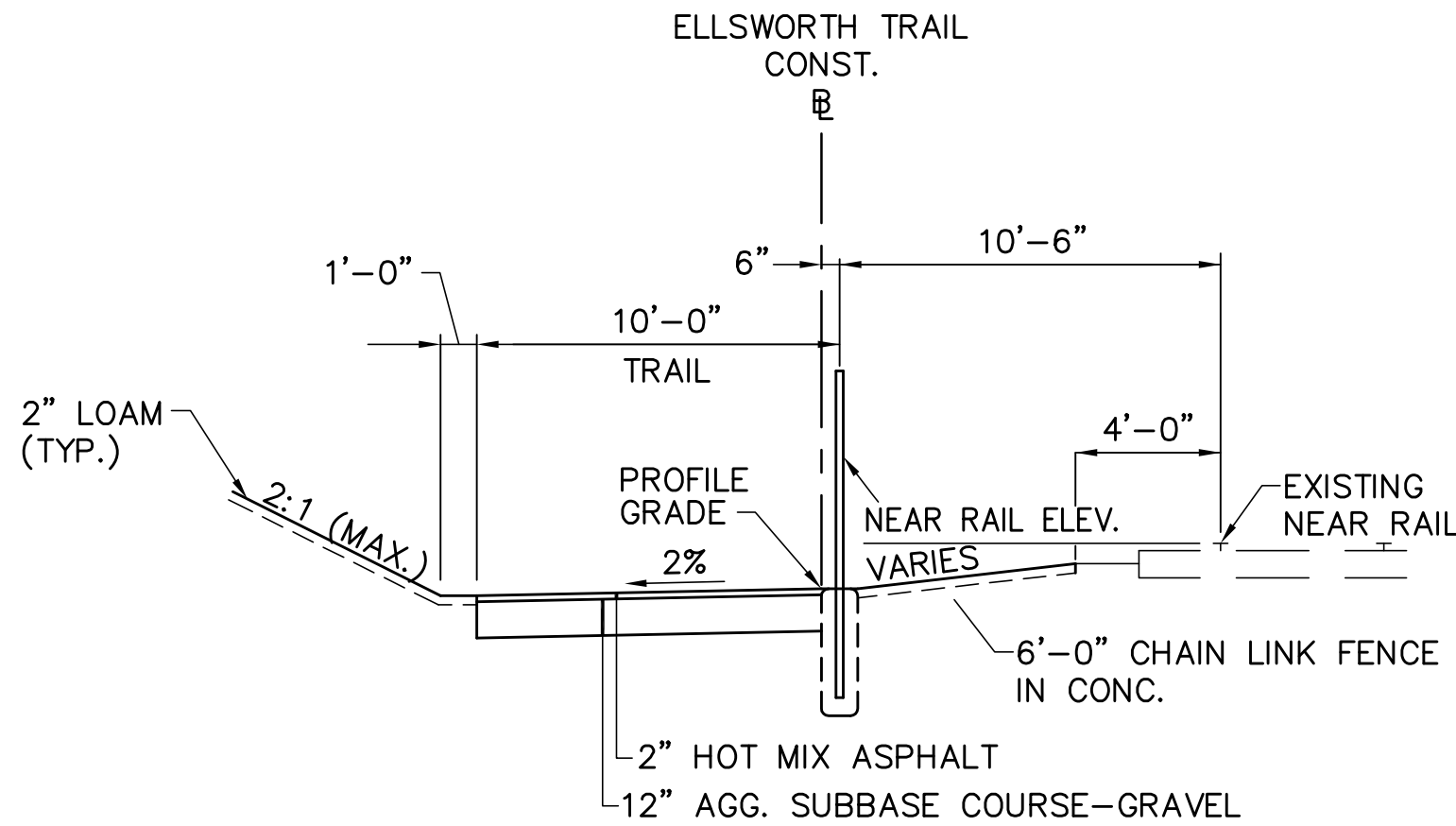
STA 21+25 TO STA 28+80



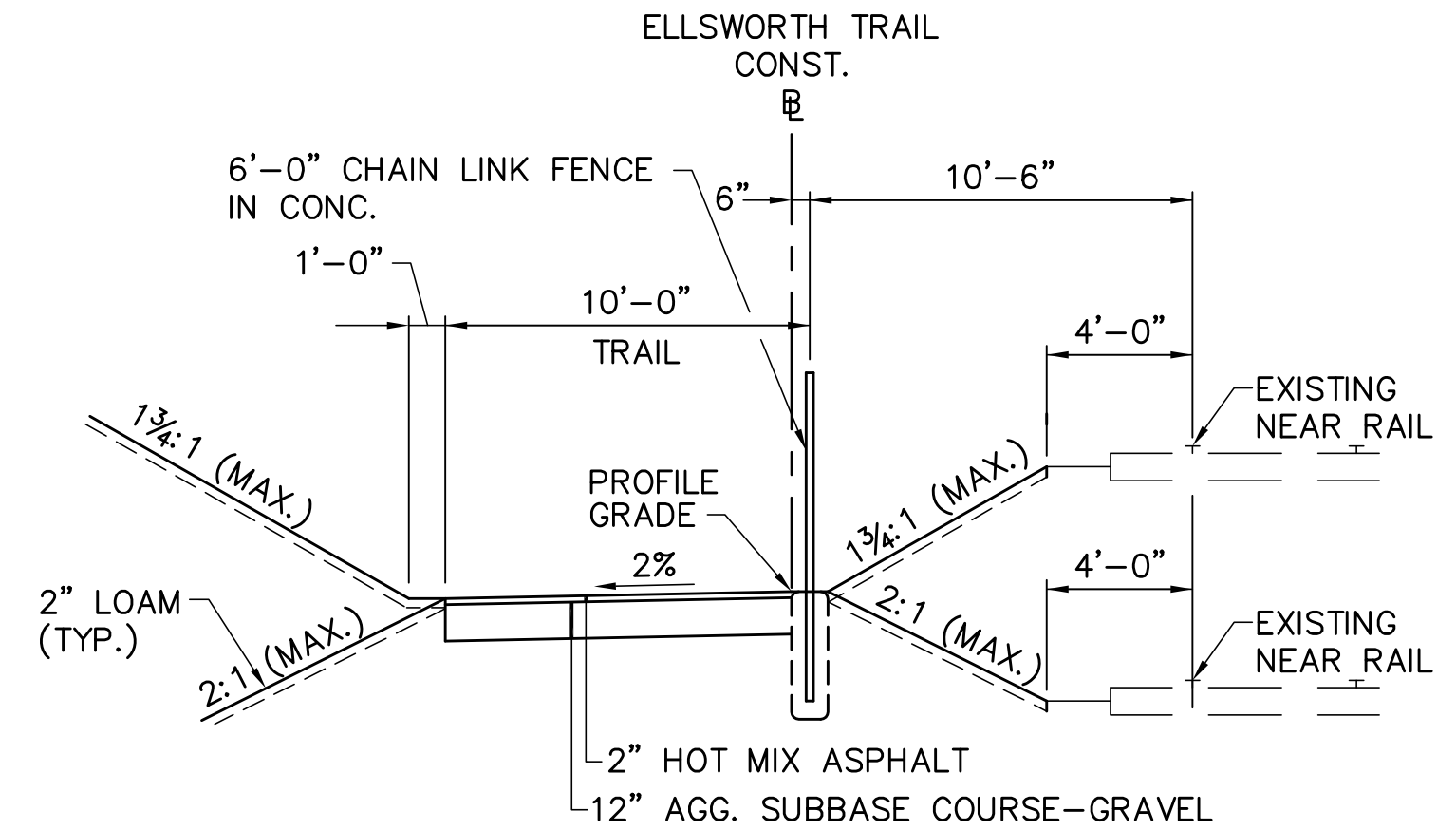
STA 35+50 TO STA 40+15



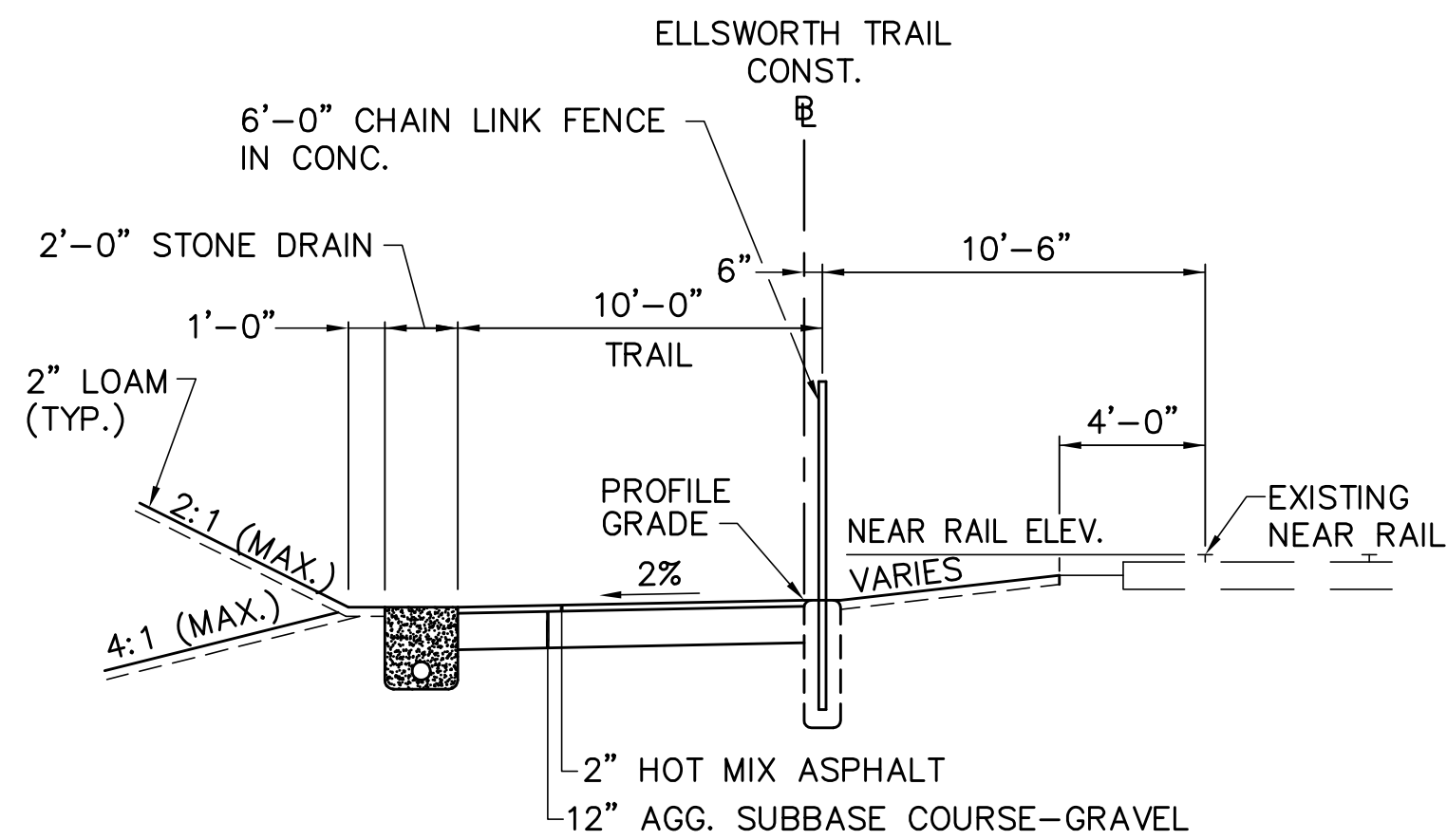
STA 5+45 TO STA 10+00



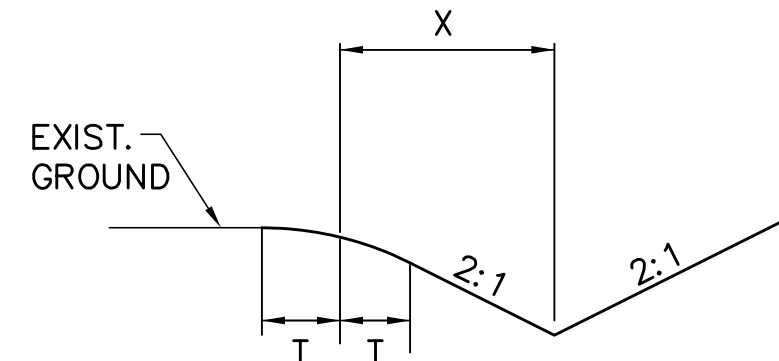
STA 30+00 TO STA 35+15



STA 43+25 TO STA 61+50



STA 10+00 TO STA 20+75

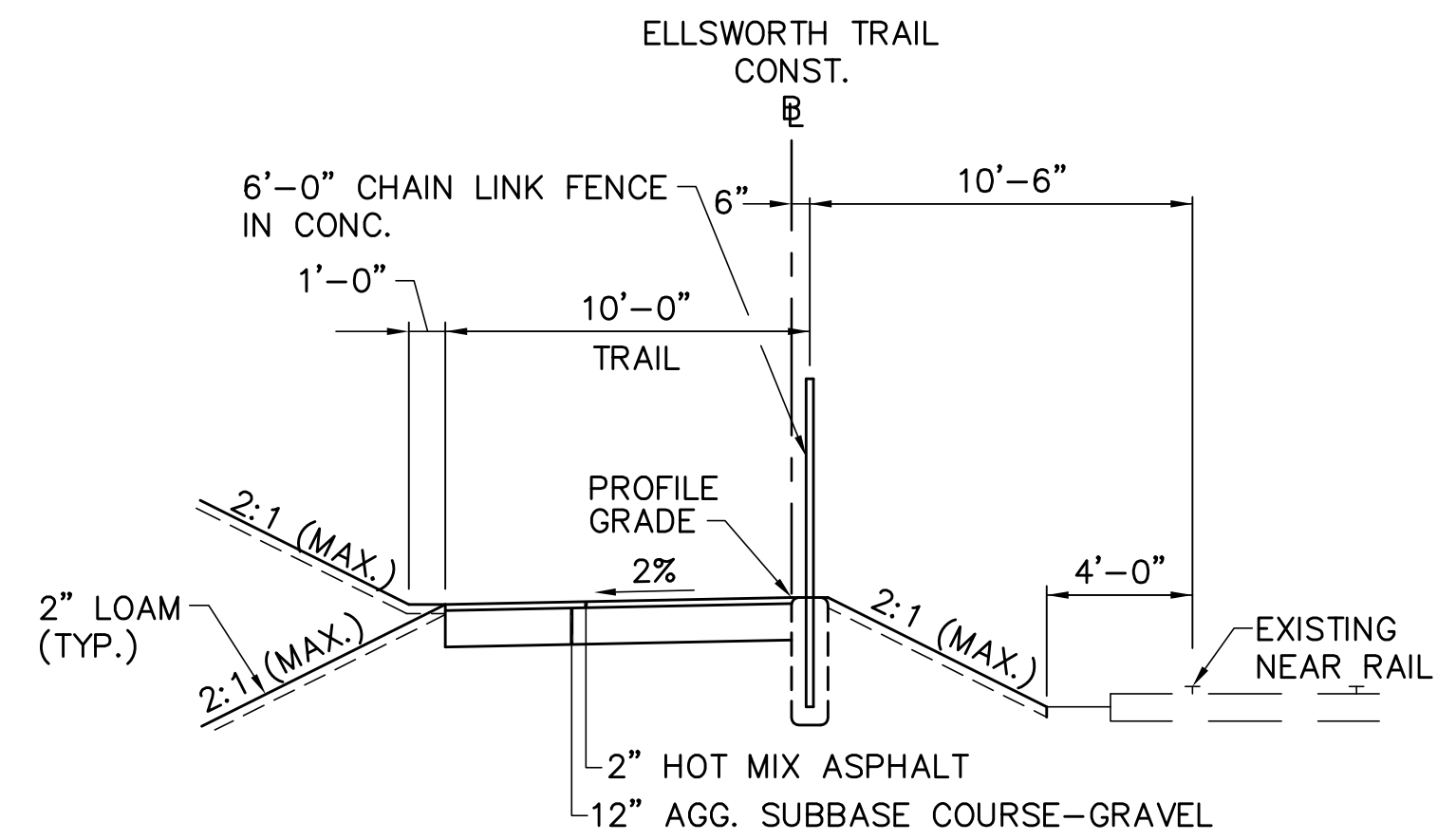


- NOTES
1. $T=2'$ WHEN $X > 2'$
 2. $T=X$ WHEN $X < 2'$

BACKSLOPE ROUNDING



Scale in Feet



STA 61+75 TO STA 65+00

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ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.11	CLEARING	2	A
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	15	CY
203.20	COMMON EXCAVATION	6,190	CY
203.21	ROCK EXCAVATION	410	CY
203.24	COMMON BORROW	100	CY
203.25	GRANULAR BORROW	140	CY
203.34	3/4 INCH CRUSHED STONE	100	TON
206.07	STRUC. ROCK EXCAVATION--DRAIN & MINOR STRUC.	190	CY
304.10	AGG. SUBBASE COURSE--GRAVEL	2,560	CY
403.208	HOT MIX ASPHALT, 12.5mm NOM. MAX. SIZE, SURFACE	6	TON
403.209	HOT MIX ASPHALT, 9.5mm NOM. MAX. SIZE (SWs, DWs, ISLANDS)	2	TON
403.210	HOT MIX ASPHALT, 9.5mm NOM. MAX. SIZE	830	TON
403.213	HOT MIX ASPHALT, 12.5mm NOM. MAX. SIZE, BASE	4	TON
511.07	COFFERDAM -- UPSTREAM	1	LS
511.07	COFFERDAM -- DOWNSTREAM	1	LS
603.05	6 INCH PVC PIPE	35	LF
603.1553	12 INCH RCP CLASS V	100	LF
603.157	12 INCH PVC PIPE	25	LF
603.159	12 INCH CULVERT PIPE OPTION III	88	LF
603.161	15 INCH CORRUGATED METAL PIPE	10	LF
603.1653	15 INCH RCP CLASS V	24	LF
603.169	15 INCH CULVERT PIPE OPTION III	16	LF
603.179	18 INCH CULVERT PIPE OPTION III	292	LF
603.219	36 INCH CULVERT PIPE OPTION III	52	LF
603.411	24 INCH RCP CLASS V	40	LF
603.491	72 INCH RCP CLASS V	55	LF
604.11	CATCH BASIN TYPE C1	2	EA
604.14	30" CATCH BASIN TYPE E	3	EA
604.15	MANHOLE	1	EA
604.16	ALTERING CATCH BASIN TO MANHOLE	1	EA
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1	EA
604.244	CATCH BASIN TYPE F4	3	EA
604.30	SPECIAL CATCH BASIN -- OUTLET CONTROL STRUCTURE	1	EA
605.095	6 INCH UNDERDRAIN PIPE	2,310	LF
605.11	12 INCH UNDERDRAIN PIPE	245	LF
605.12	15 INCH UNDERDRAIN PIPE	130	LF
605.183	STONE DRAIN TYPE B	680	TON
607.163	CHAIN LINK FENCE -- 4' PVC COATED	860	LF
607.173	CHAIN LINK FENCE -- 6' PVC COATED	6,030	LF
607.35	BRACING ASSEMBLY CHAIN LINK FENCE -- PVC COATED	42	EA
608.26	CURB RAMP DETECTABLE WARNING FIELD	190	SF
609.237	TERMINAL CURB TYPE 1 -- 7 FOOT	1	EA
609.38	RESET CURB TYPE 1	7	LF
610.08	PLAIN RIPRAP	300	CY
610.18	STONE DITCH PROTECTION	36	CY
613.319	TEMPORARY EROSION CONTROL BLANKET	1,970	SY
615.07	LOAM	570	CY
618.13	SEEDING METHOD NUMBER 1	6	UNITS
618.1411	SEEDING METHOD NUMBER 3 -- PLAN QUANTITY	88	UNITS
619.12	MULCH	94	UNITS
619.1401	EROSION CONTROL MIX	175	CY
620.54	STABILIZATION GEOTEXTILE	88	SY
620.56	DRAINAGE GEOTEXTILE	3,130	SY
620.58	EROSION CONTROL GEOTEXTILE	600	SY
627.407	REF PLASTIC WHITE OR YELLOW PAVEMENT MARKING	1,000	SF
627.18	12" SOLID WHITE PAVEMENT MARKING LINE	560	LF
627.733	4" WHITE OR YELLOW PAVEMENT MARKING LINE	960	LF
629.05	HAND LABOR	20	HR
631.132	SMALL BULLDOZER (INC. OP.)	20	HR
631.171	TRUCK--SMALL (INC. OP.)	20	HR
631.18	CHAIN SAW RENTAL (INC. OP.)	20	HR
631.22	FRONT END LOADER (INC. OP.)	20	HR
631.32	CULVERT CLEANER (INC. OP.)	20	HR
635.31	PREFAB CONCRETE BLOCK GRAVITY WALL	960	SF
639.19	FIELD OFFICE TYPE B	1	EA
645.116	REINSTALL REG. WARN CONFIRM & RTE MARKER ASSEM SIGN	2	EA
645.292	REG. WARN CONFIRM & RTE MARKER ASSEM SIGNS TYPE III	230	SF
648.312	BALLAST	36	TON
648.56	REMOVE AND RESET RAILROAD TRACK IN PLACE	600	LF
652.31	TYPE I BARRICADE	10	EA
652.312	TYPE III BARRICADE	10	EA
652.33	DRUM	10	EA
652.35	CONSTRUCTION SIGNS	125	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	110	CAL DAY
652.38	FLAGGER	160	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
841.49	BOLLARD -- COLLAPSIBLE	47	EA

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	6,080	
DITCH (STA. 53+80, LT.)	20	
DETENTION POND	50	
GRAVEL ENTRANCES	18	
LAKES LANE	22	
TOTAL COMMON EXCAVATION		6,190

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	2,795	
TOTAL FILL		2,795

ROCK EXCAVATION FOR ESTIMATE

TOTAL ROCK EXCAVATION		410
-----------------------	--	-----

UNCLASSIFIED EXCAVATION FOR ESTIMATE

TOTAL UNCLASSIFIED EXCAVATION		0
-------------------------------	--	---

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		6,190
(2) TOTAL DEDUCTIONS		0
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		6,190
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		0
TOTAL AVAILABLE NON--ROCK EXCAVATION		6,190

COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW FOR DRAINAGE STRUCTURE BEDDING	121	
GRANULAR BORROW=	121 X 1.15=	140

COMPUTATION OF COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL		2,795
TOTAL AVAILABLE NON--ROCK EXCAV.	6,190 X 0.85=	5,262
(4) TOTAL AVAILABLE EXCAVATION		5,262
BORROW NEEDED=TOTAL FILL MINUS TOTAL AVAILABLE EXCAV.		-2,467

IF NO BORROW NEEDED, SURPLUS MATERIAL=AVAILABLE EXCAV. MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED		2,467
SURPLUS MATERIAL=	2,467	CY



One Grant Street
Frammingham, MA 01701-9005
508.903.2000
www.tetratechrizzo.com

DATE	08/10	08/10	11/10						
BY	EAP	EAP	AT						
PROJ. MANAGER	JOEL	KITREDOE							
DESIGNED									
DRAWN									
CHECKED									
REVISIONS	1								
REVISIONS	2								
REVISIONS	3								
REVISIONS	4								
REVISIONS	5								
FIELD CHANGES									

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL

ESTIMATED QUANTITIES

SHEET NUMBER

3

OF 54

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GENERAL NOTES

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

(ELECTRIC)
2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.
3. CLEARING LIMITS SHALL BE 5’ BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
4. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.
5. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.
6. UNPAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 14” AGGREGATE SUBBASE COURSE GRAVEL OR 11” AGGREGATE SUBBASE COURSE GRAVEL AND 3” UNTREATED AGGREGATE SURFACE COURSE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
7. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):

ANY CUTTING OF EXISTING CULVERTS AND/OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS.

ALL PIPE EXCAVATION.

ALL DITCHING AT PIPE ENDS.

FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES EXCEPT THAT 3/4” STONE UNDER THE DRAIN PIPES AT STA. 21+07 AND STA. 41+52 WILL BE PAID FOR UNDER ITEM 203.34.

GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL.

ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES.

ANY NECESSARY CLEARING OF BRUSH AND NON–PAY TREES AT CULVERT ENDS.
8. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).
9. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
10. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
11. ALL CONNECTIONS FOR STONE DRAIN TO ROADWAY CULVERTS WILL BE INCIDENTAL TO STONE DRAIN PIPE ITEMS.
12. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL CUT/FILL SLOPES. MULCH SHALL BE APPLIED ON ALL SEEDED AREAS.
13. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES IN ALL AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
14. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR’S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR’S EXPENSE.
15. SUBSURFACE SOILS INFORMATION IS PROVIDED IN THE FOLLOWING REPORT PREPARED BY GOLDER ASSOCIATES, INC.:

"GEOTECHNICAL INVESTIGATION REPORT, DOWNEAST RAIL TRAIL"
DATED SEPTEMBER 2009
16. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS SUPPLEMENTED WITH COMMON BORROW.
17. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR’S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
18. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
19. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
20. PLACE A 2 FT WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ALONG THE TOP OF ALL RIPRAP AND DITCH SLOPES.
21. PLACE EROSION CONTROL GEOTEXTILE UNDER ALL RIPRAP.

22. DURING THE DURATION OF THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY RAILROAD TIES THAT CANNOT 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 207–624–3100 FOR CLARIFICATION. THE CONTRACTOR SHALL ALSO REMAIN ALERT FOR EVIDENCE OF PETROLEUM AND HAZARDOUS WASTE/MATERIALS CONTAMINATION. 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 MDOT’S ENVIRONMENTAL OFFICE AT 207–624–3103 AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AT 800–482–0777. WORK MAY ONLY CONTINUE WITH AUTHORIZATION FROM THE RESIDENT.

TETRA TECH RIZZO

TE

One Grant Street
Framingham, MA 01701-9005
508.503.2000
www.tetratechrizzo.com

DATE

08/10

08/10

11/10

BY

EAP

EAP

BWA

PROJ. MANAGER

JOEL KITREDGE

DESIGNED

DRAWN

CHECKED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

REVISIONS 5

FIELD CHANGES

SIGNATURE

5007

P.E. NUMBER

DATE

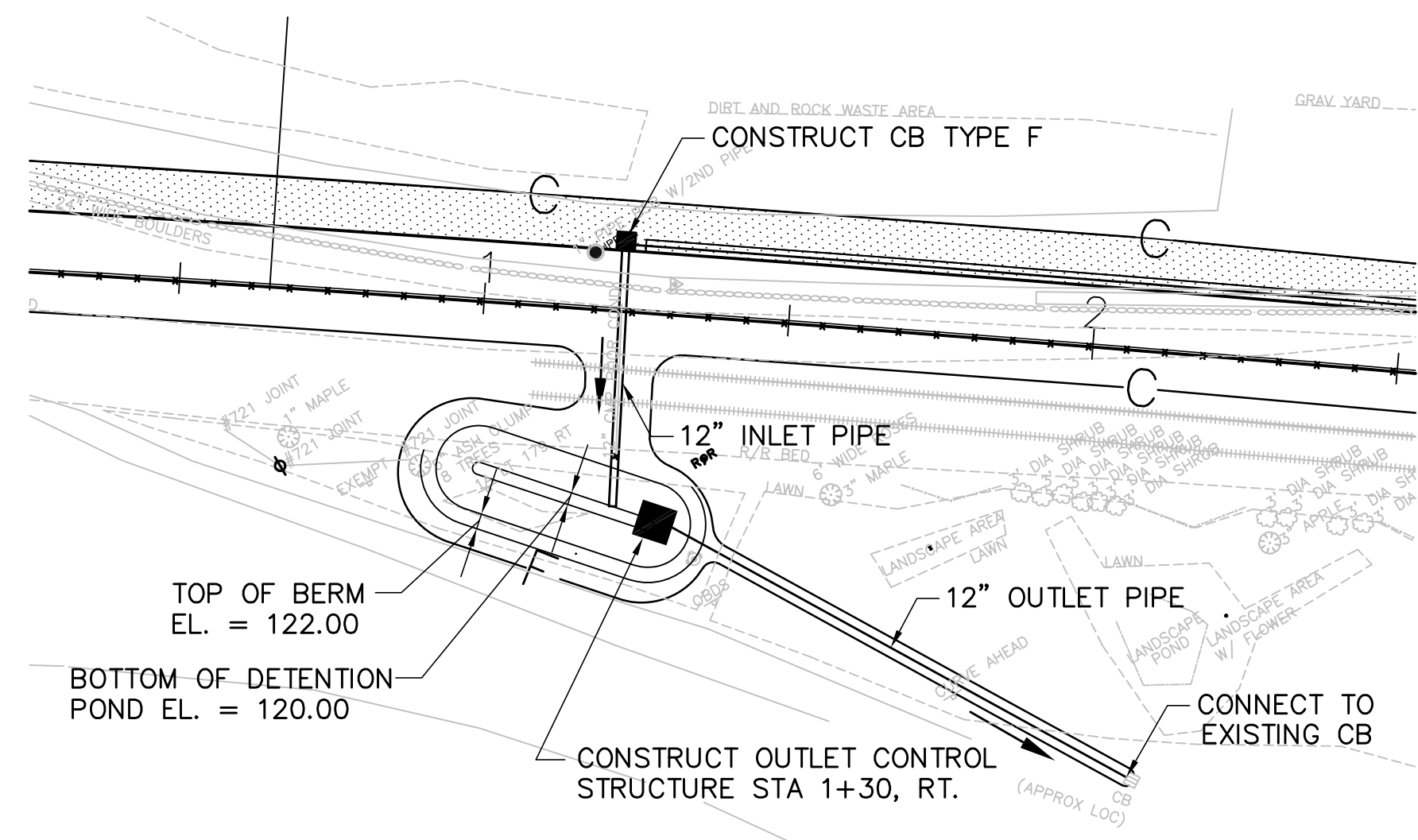
ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL

GENERAL NOTES

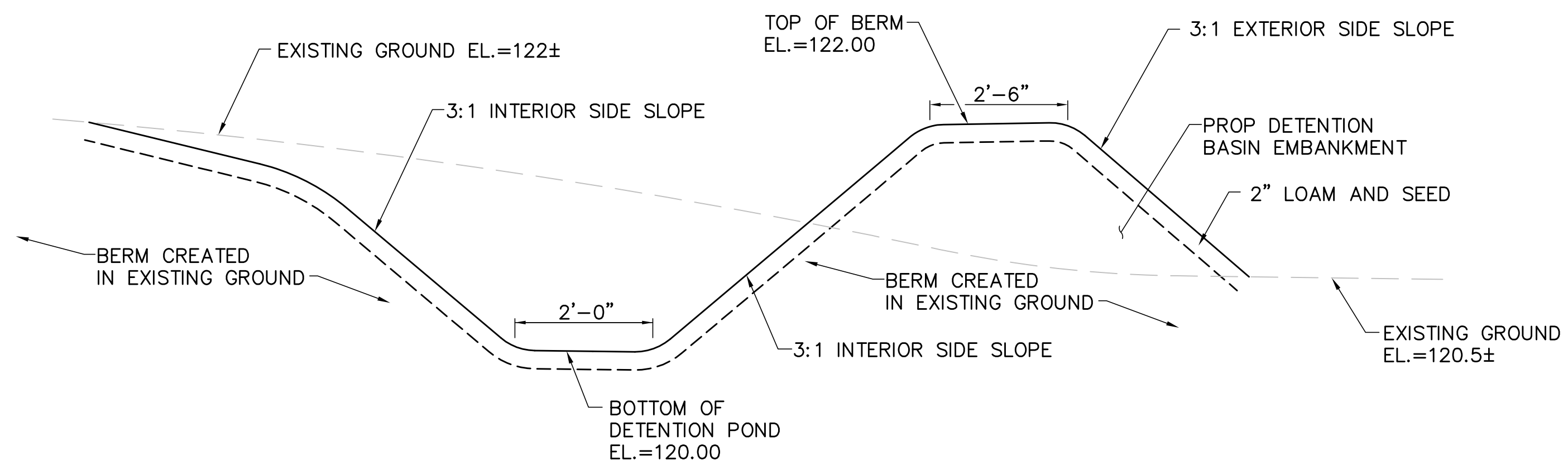
72" RCP CLASS V
STA. 21+07

2-36" OPTION III
STA. 41+52

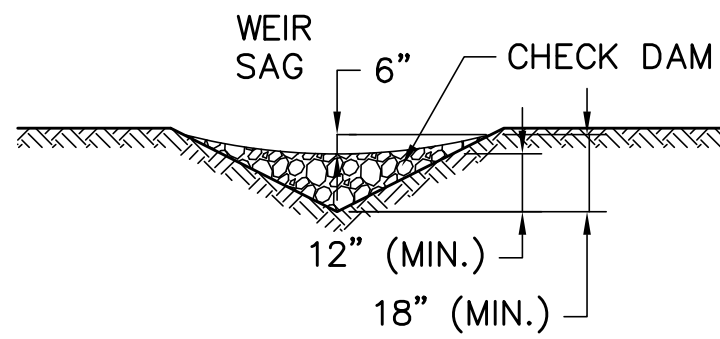
72" FLARED END SECTION



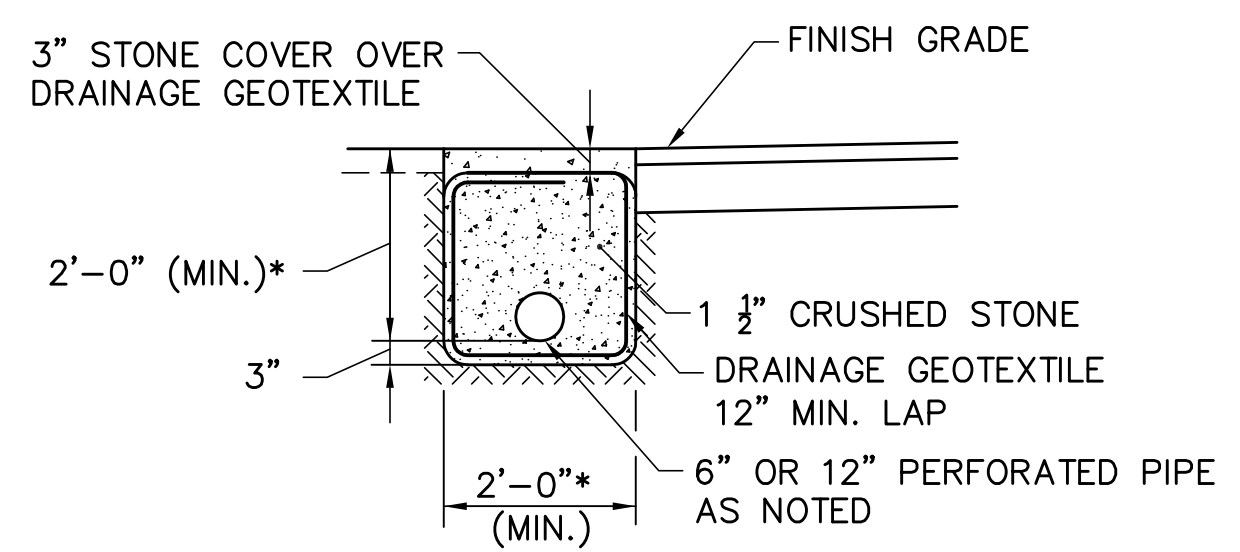
DETENTION POND PLAN
N.T.S.



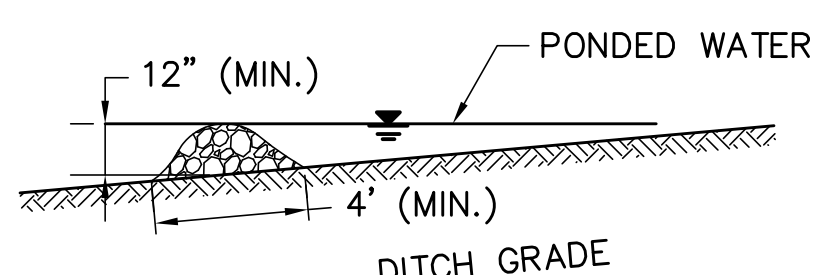
DETENTION POND CROSS SECTION
N.T.S.



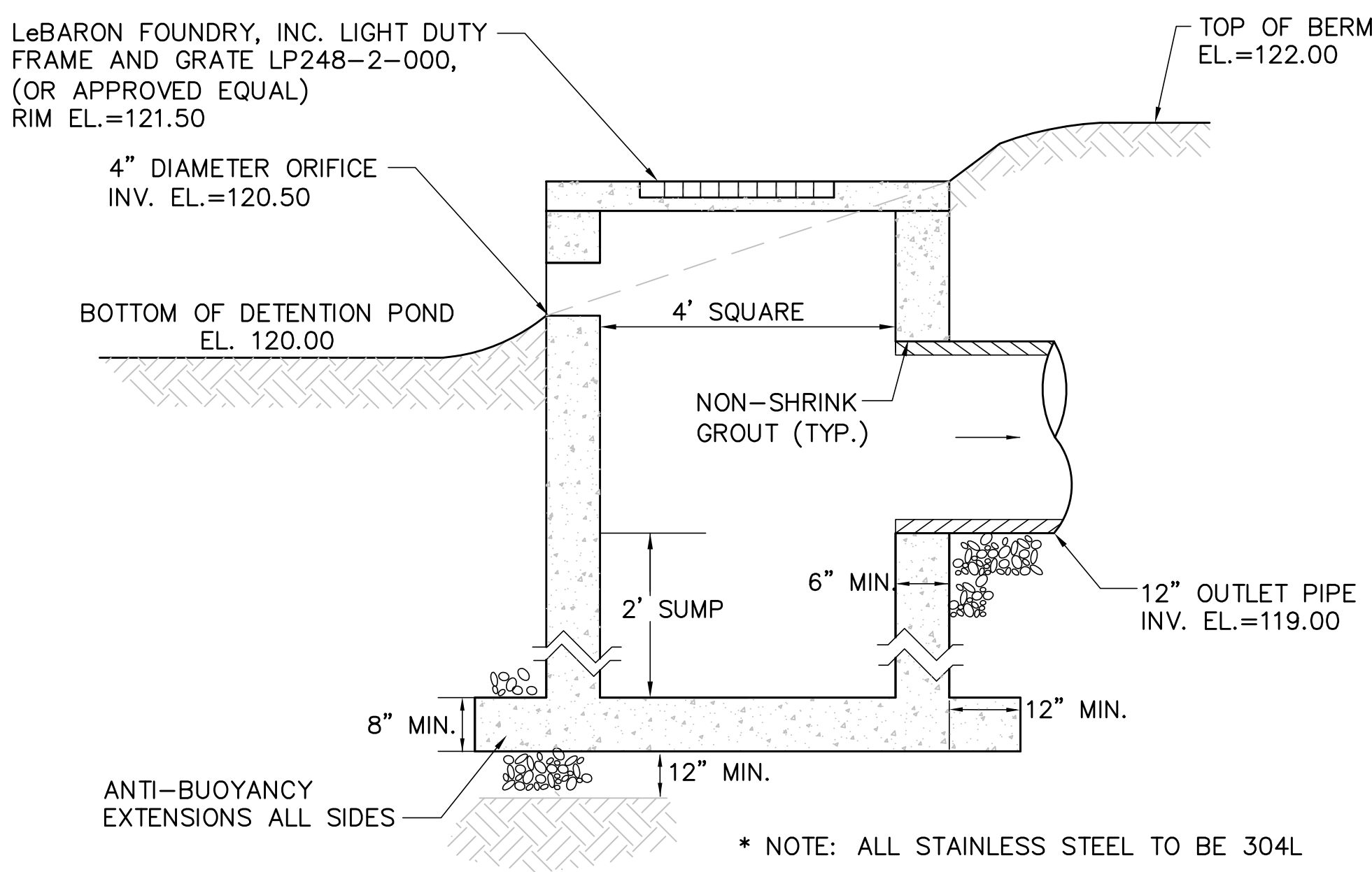
CROSS SECTION



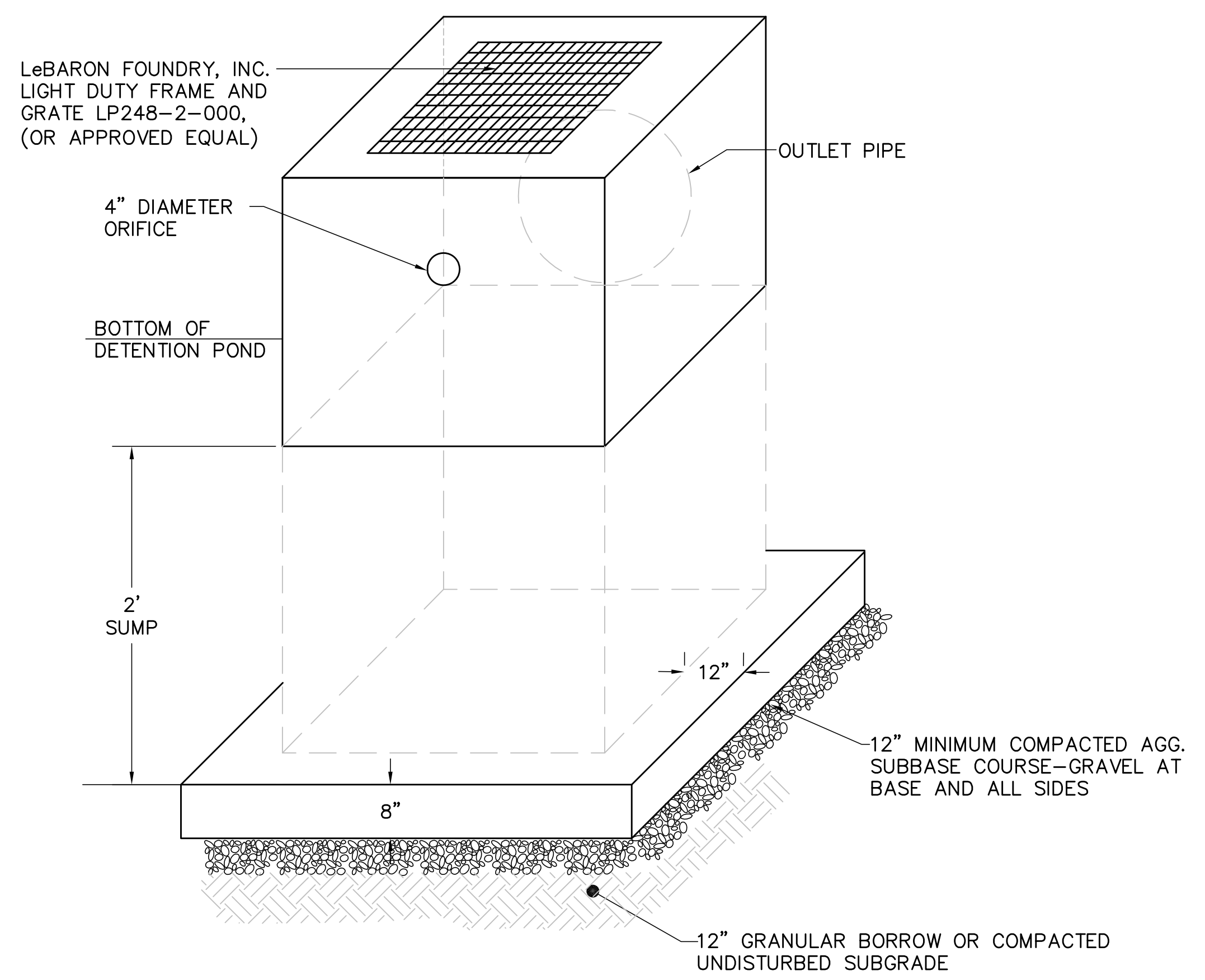
STONE DRAIN DETAIL
N.T.S.



PROFILE AT DITCH



DETENTION POND OUTLET CONTROL
STRUCTURE CROSS SECTION
N.T.S.

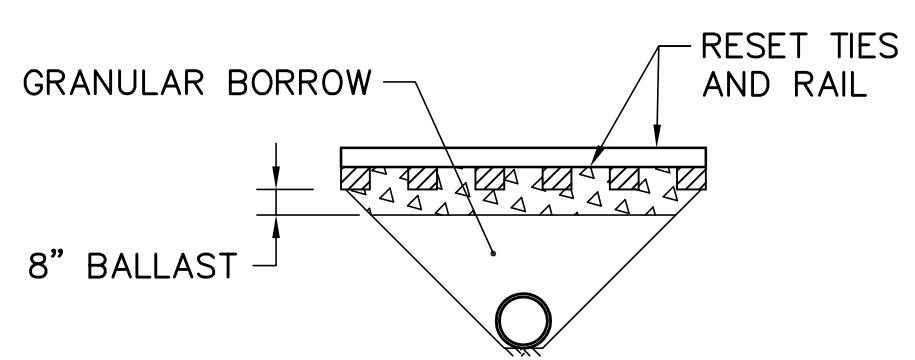


DETENTION POND OUTLET CONTROL STRUCTURE
STA. 1+30, RT.
N.T.S.

NOTE:
UNLESS SPECIFIED, STONE SHALL MEET REQUIREMENTS OF
MATERIAL SPECIFICATION 703.29 STONE DITCH PROTECTION.

REF:
BEST MANAGEMENT PRACTICE FOR EROSION AND
SEDIMENTATION CONTROL - CHECK DAM.

MODIFIED STONE CHECK DAM
N.T.S.



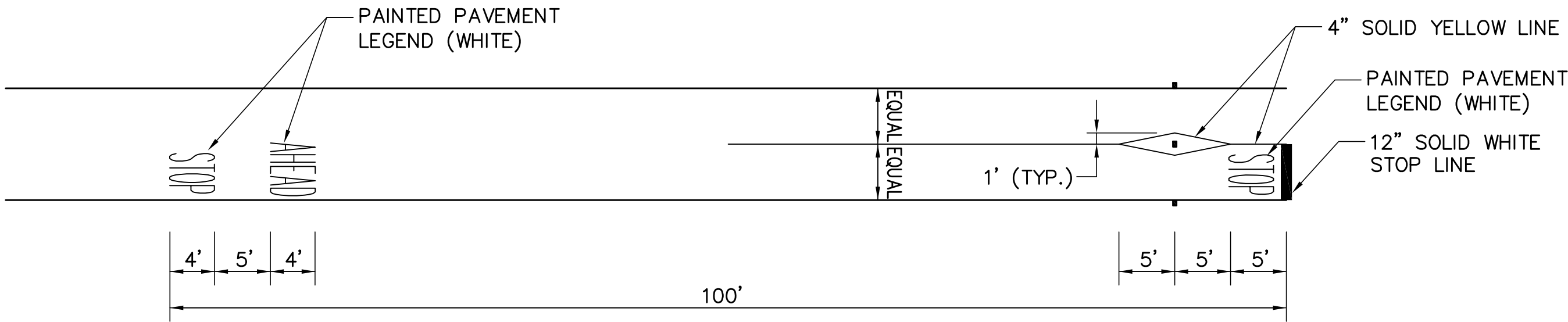
TYPICAL CULVERT TRENCH UNDER RAILROAD
N.T.S.

* NOTE: ALL STAINLESS STEEL TO BE 304L

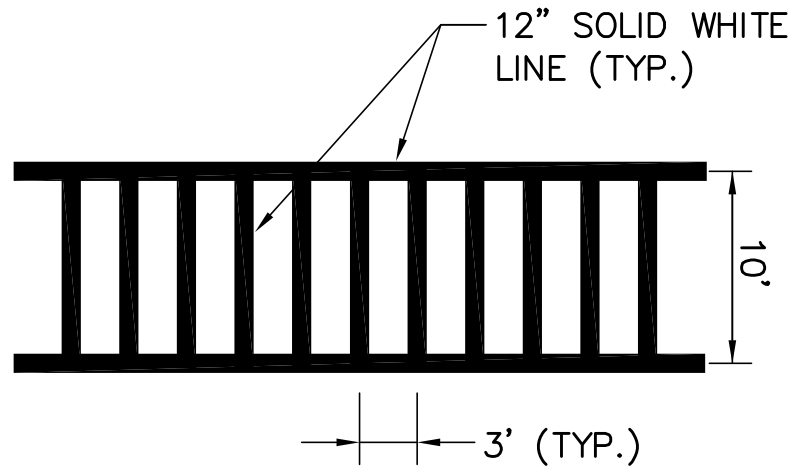
DATE	BY	PROJ. MANAGER	JOEL KITREDGE	DESIGNED	08/10	EAP	08/10	CHECKED	08/10	BWA	08/10	REVISIONS	1	REVISIONS	2	REVISIONS	3	REVISIONS	4	REVISIONS	5	FIELD CHANGES

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
DRAINAGE DETAILS

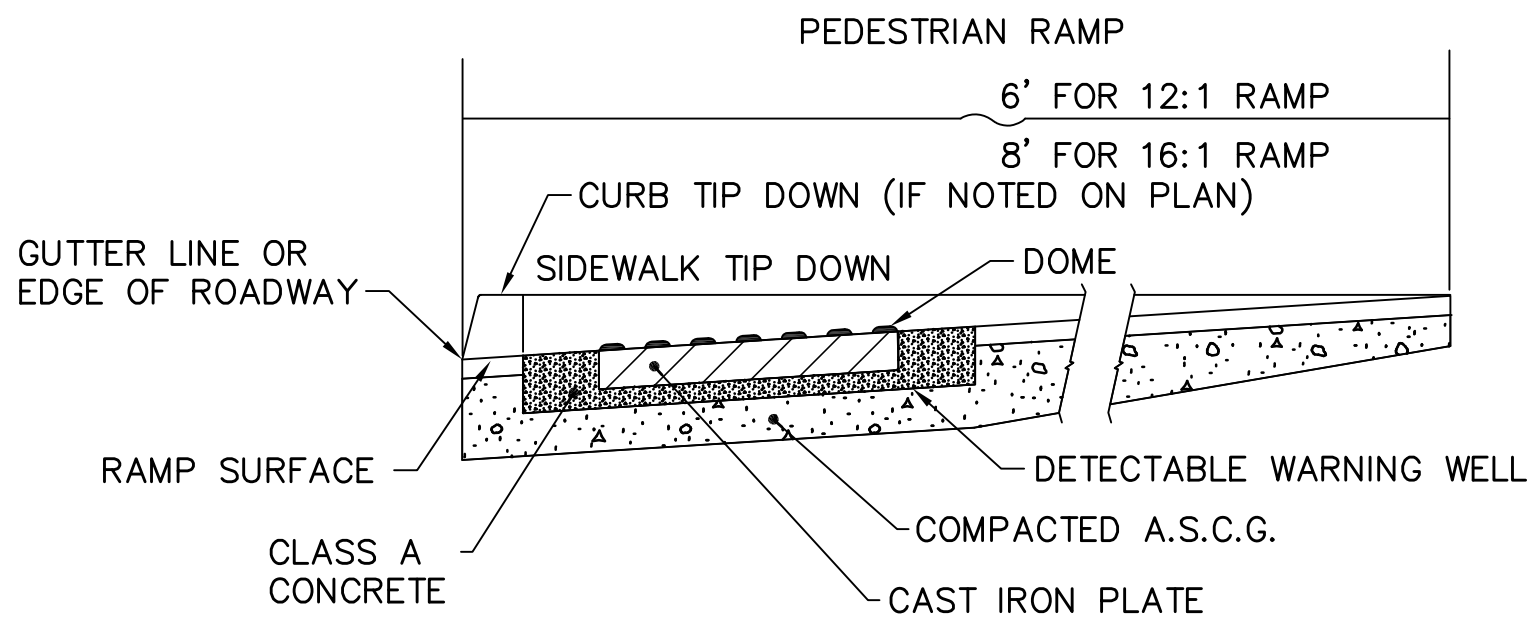
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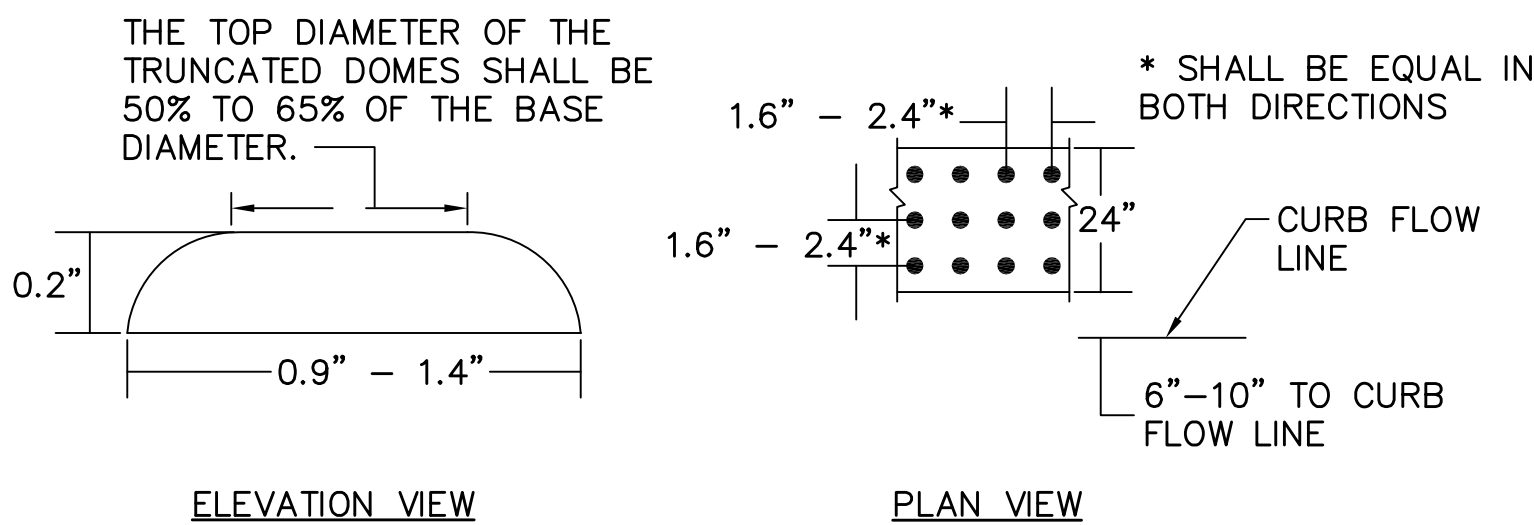
INTERSECTION PAVEMENT MARKING DETAIL
SCALE: 1"=10'



CROSSWALK DETAIL
SCALE: 1"=10'



SIDE SECTION VIEW OF
DETECTABLE WARNING, WELL, CURB AND GUTTER

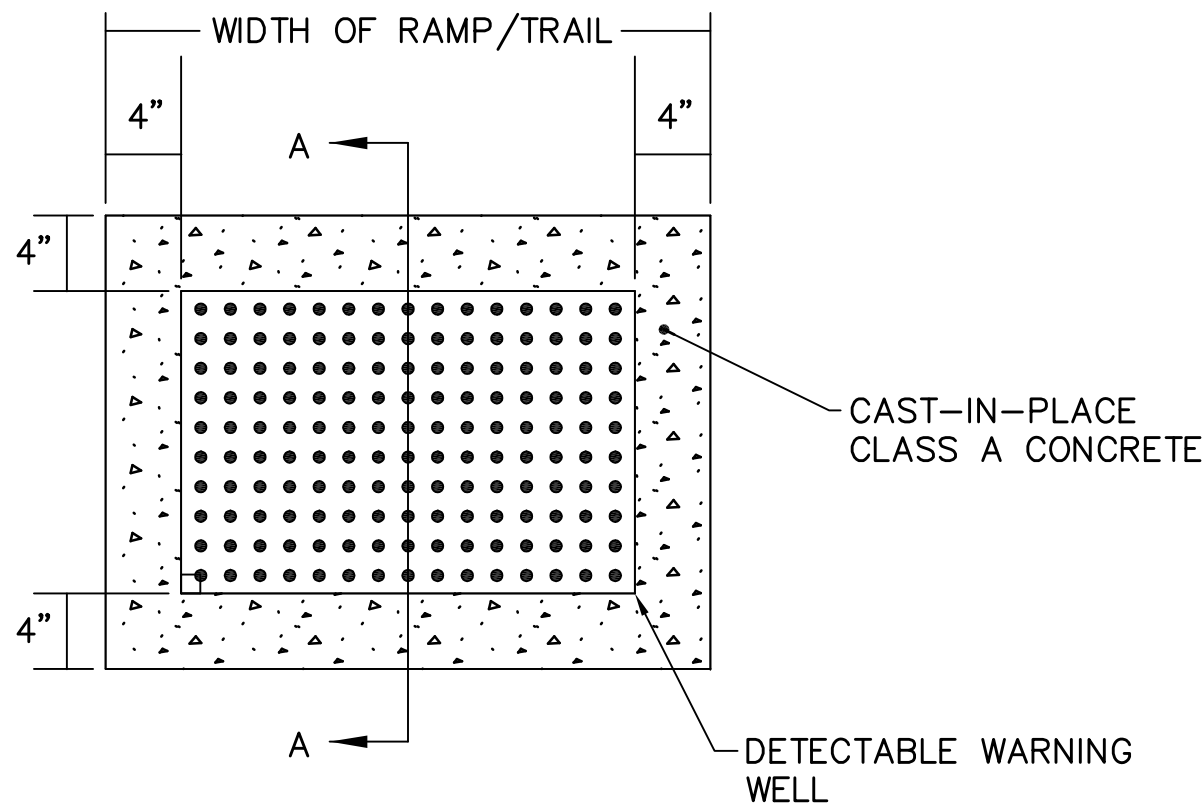


DOMES AND DETECTABLE WARNING DETAILS

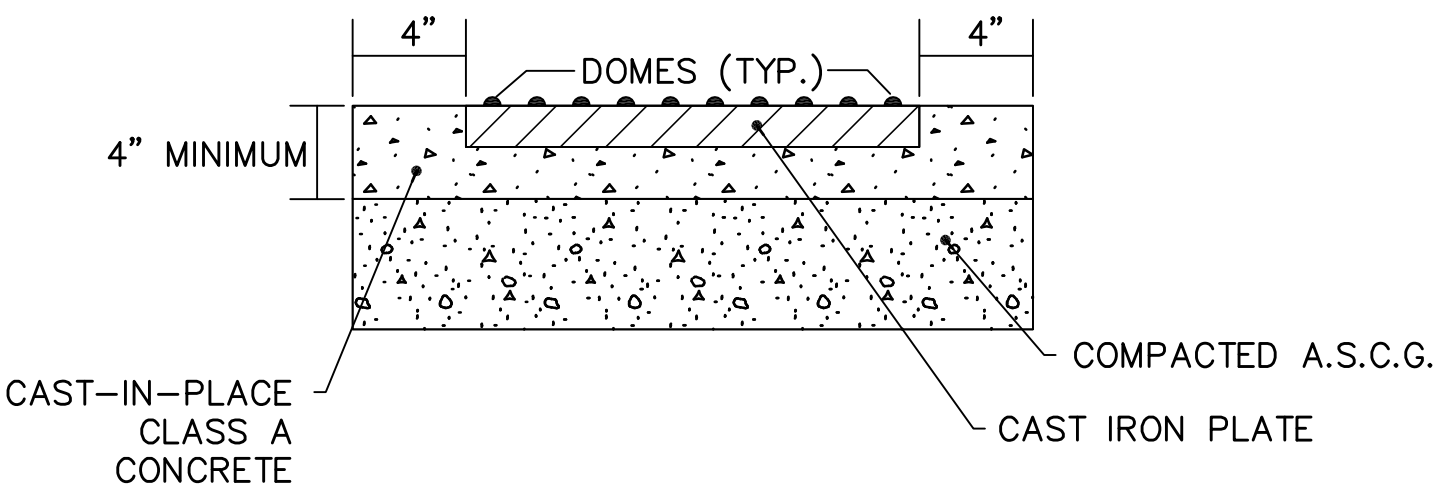
NOTES:

- ALL DETECTABLE WARNING AREAS SHALL START 6-10" FROM THE FLOW LINE OF THE CURB OR EDGE OF ROADWAY, BE 24" IN DEPTH, AND COVER THE COMPLETE WIDTH OF THE RAMP/TRAIL AREA ONLY.
- DETECTABLE WARNING REQUIRED AT STREET CROSSINGS.

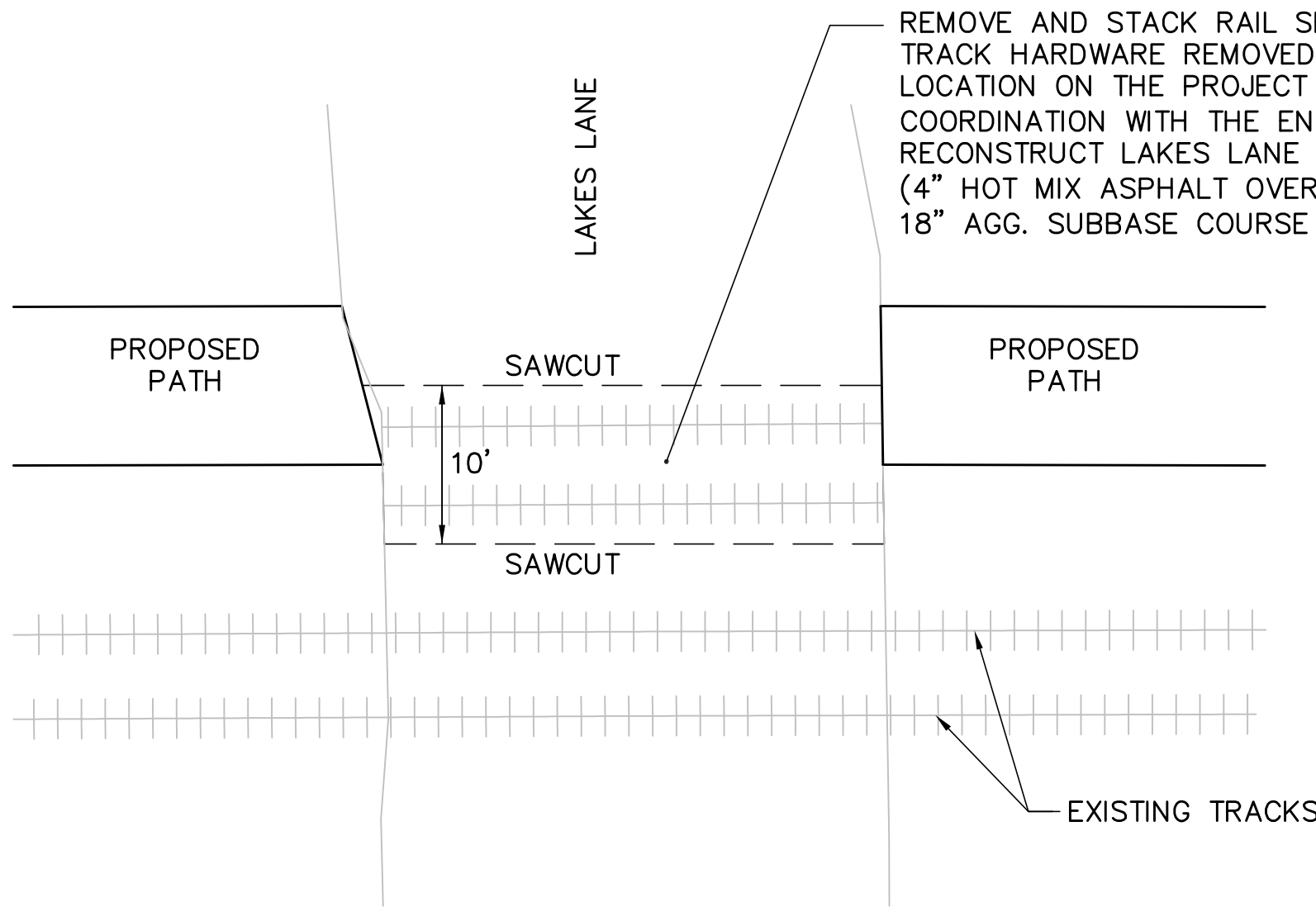
VIEWS AND DETAILS OF THE DETECTABLE WARNING
N.T.S.



PLAN VIEW OF
DETECTABLE WARNING AND WELL

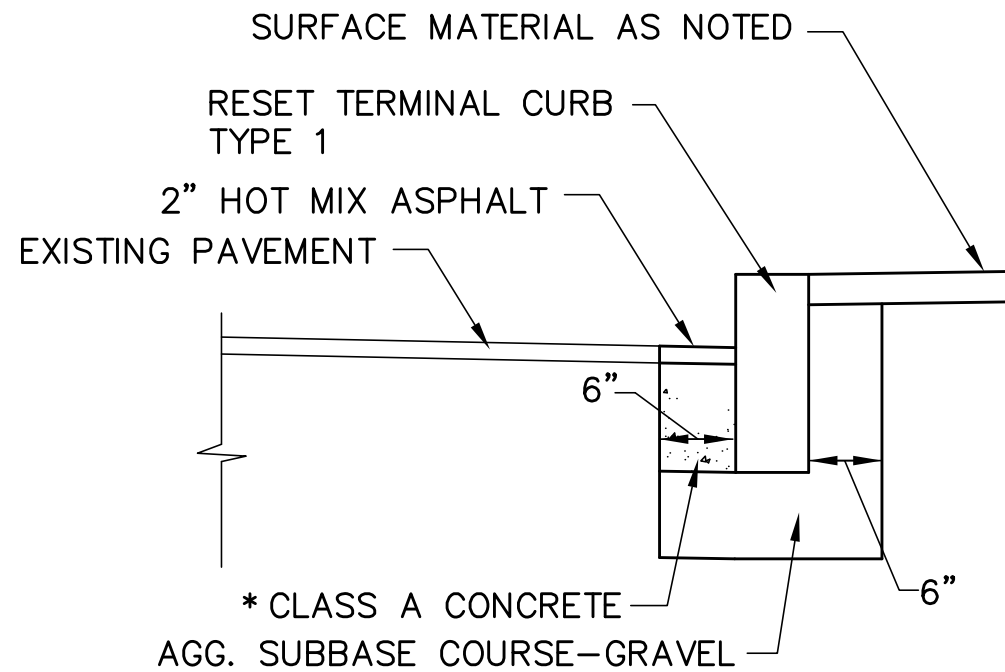


SECTION A-A



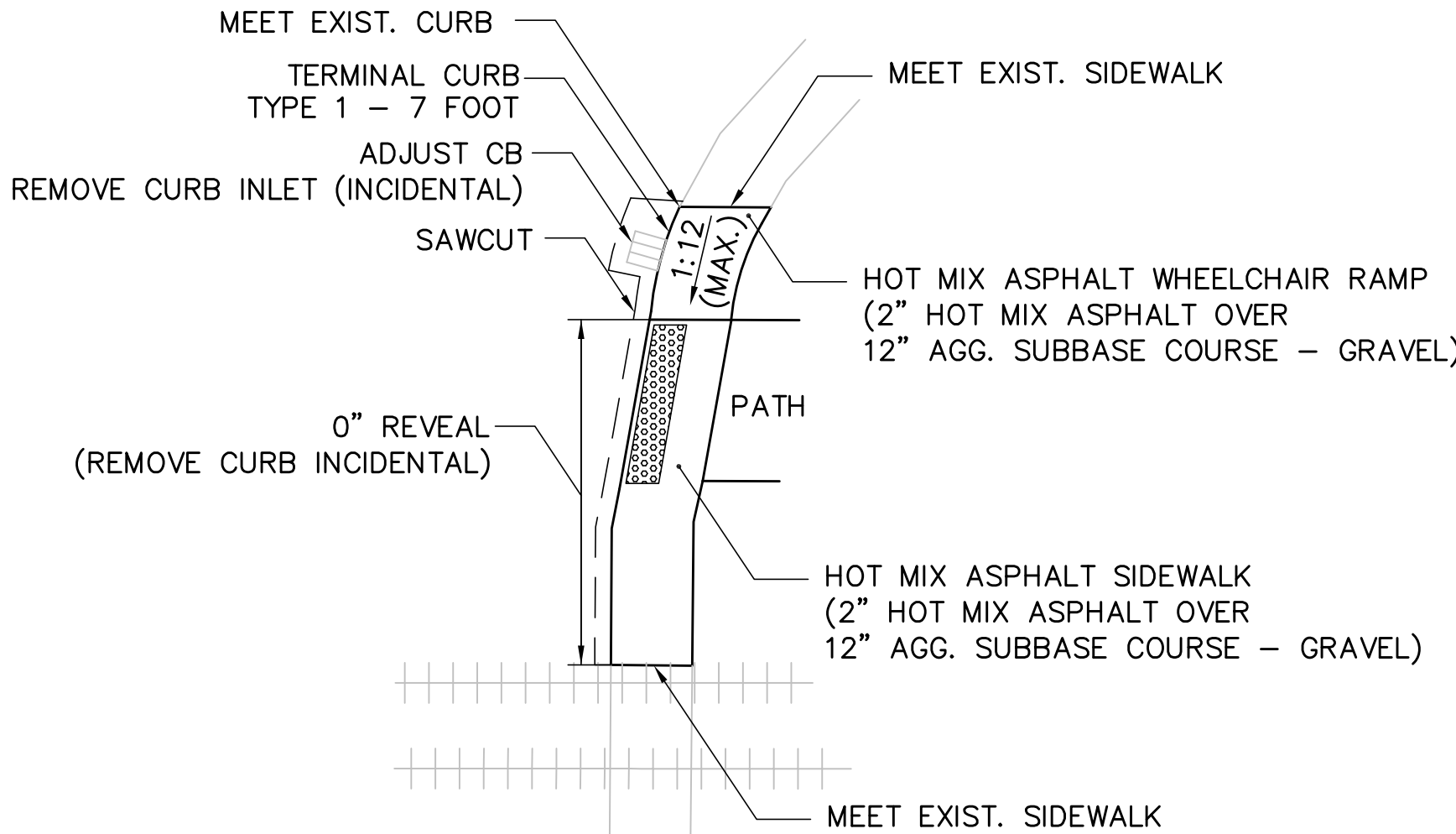
PAYMENT FOR ALL LABOR AND MATERIAL REQUIRED FOR THE WORK SHALL BE PAID FOR UNDER RESPECTIVE BID ITEMS, EXCEPT FOR RAIL REMOVAL WHICH WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS. RAILS SHALL BE STORED IN A LOCATION AS APPROVED BY THE ENGINEER AND SHALL BE THE PROPERTY OF THE DEPARTMENT.

RAILROAD TRACK REMOVAL AT LAKES LANE
N.T.S.



* PAYMENT FOR CLASS A CONCRETE SHALL BE INCLUDED IN THE PRICE PER LINEAR FOOT OF CURBING. (UP TO 6" WIDTH)

GRANITE CURB SET IN EXIST. PAVEMENT
N.T.S.



WHEELCHAIR RAMP DETAIL AT ELLSWORTH HIGH SCHOOL DRIVEWAY ENTRANCE
N.T.S.

TETRA TECH RIZZO

One Grant Street
Frammingham, MA 01701-9005
508.903.2000
www.tetratechrizzo.com

DATE
08/10
08/10
08/10
SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER
DESIGNED
DRAWN
CHECKED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
REVISIONS 5
FIELD CHANGES

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL

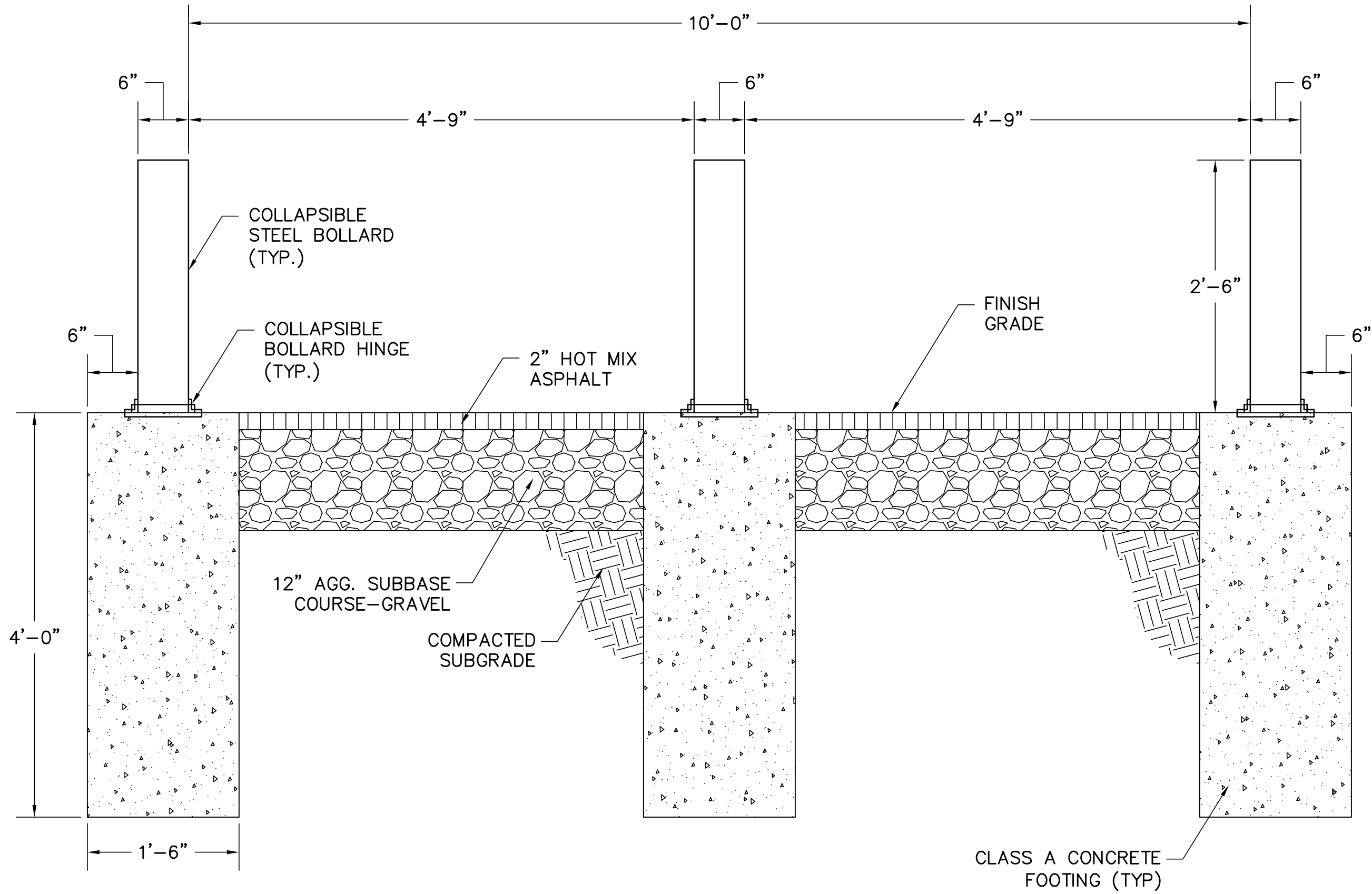
CONSTRUCTION DETAILS

SHEET NUMBER

7

OF 54

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COLLAPSIBLE BOLLARDS
N.T.S.

NOTE:

DOUBLE HINGED COLLAPSIBLE BOLLARDS
AS MANUFACTURED BY:

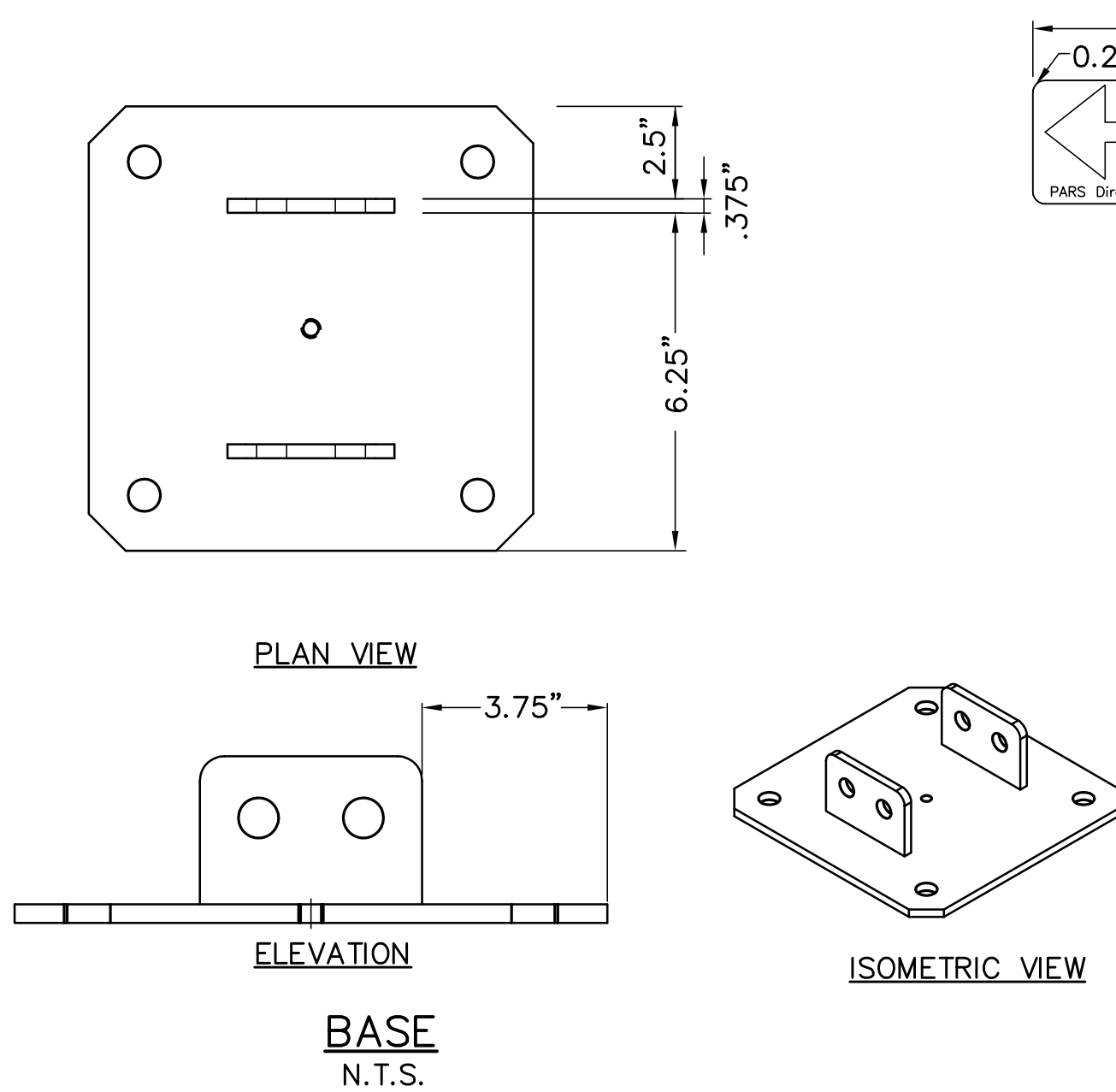
TRAFFICGUARD DIRECT, INC.
P.O. BOX 201
GENEVA, IL 60134
PHONE: 877-727-7347
FAX: 800-814-7194
WEBSITE: www.trafficguard.net

MODEL #DHB

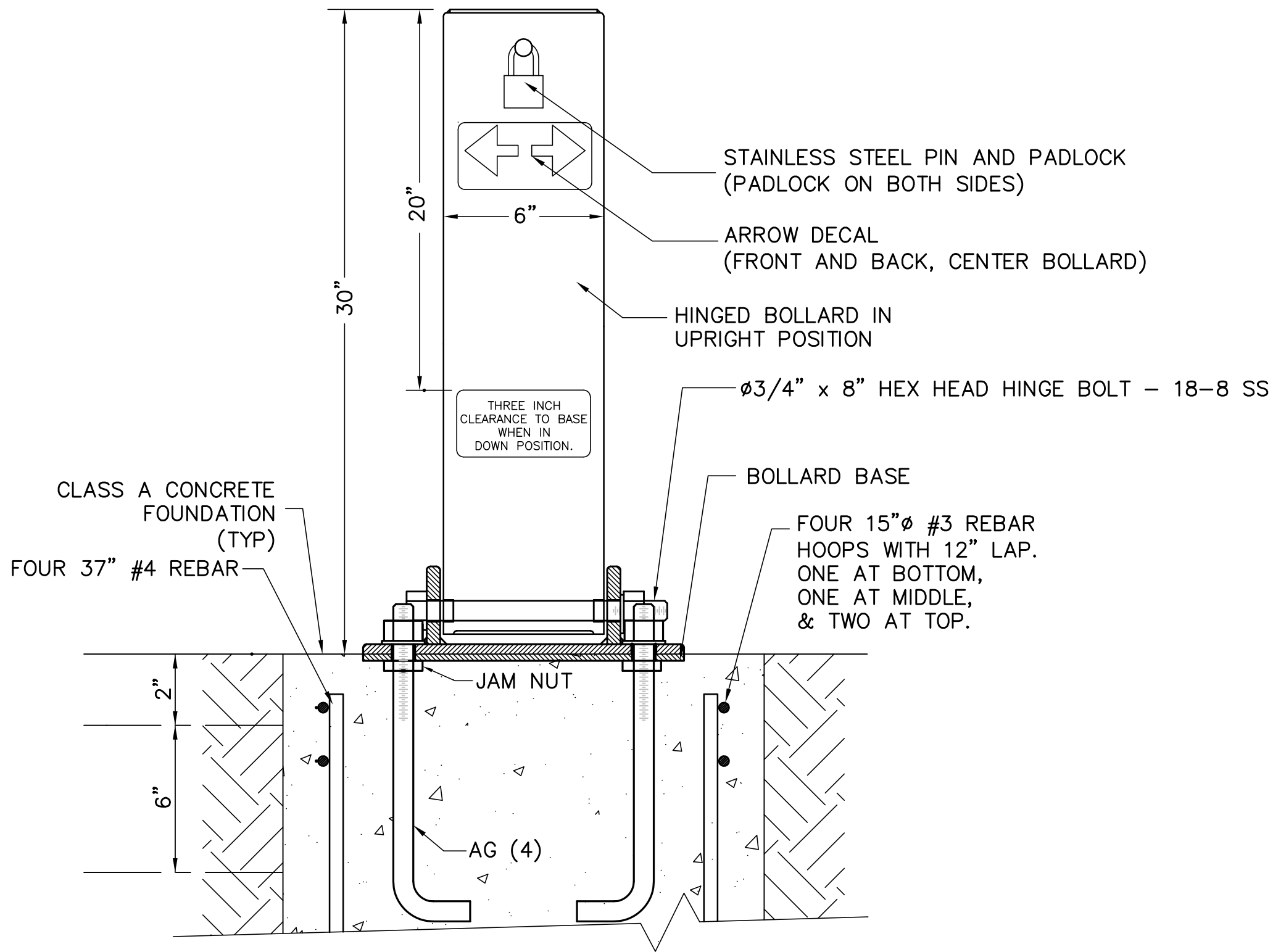
CHOICE OF ANCHORAGE SYSTEMS:

"AG" - 3/4" ϕ X 12" ASTM A36 L-HOOK
ANCHOR BOLT WITH HEX HEAD NUT AND
TYPE "A" FLAT WASHER. ALL H.D. GALVANIZED.
INSTALL PER SPECIFICATION AND AS NOTED.

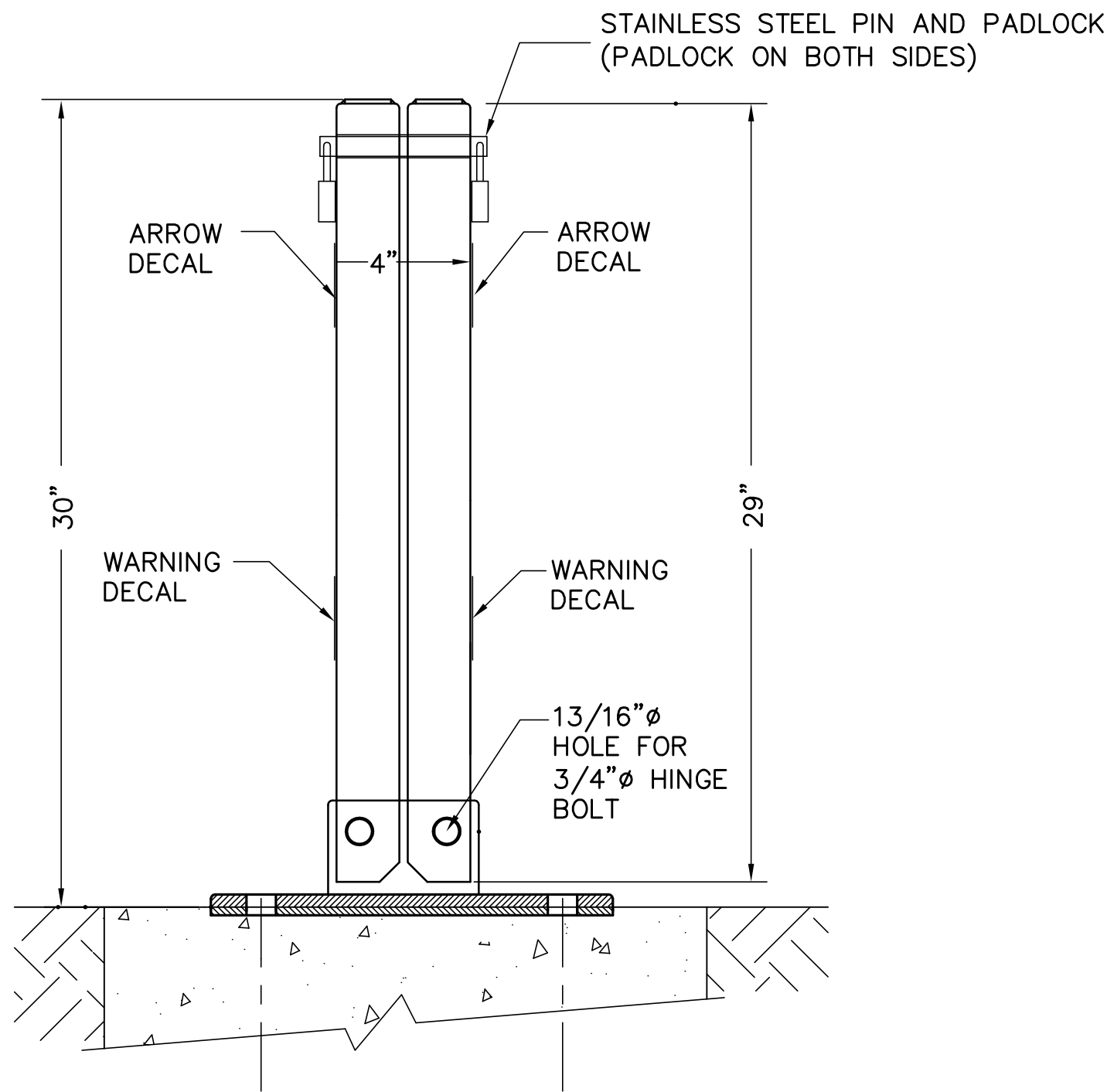
OR APPROVED EQUAL



COLLAPSIBLE BOLLARD DETAIL
N.T.S.



FRONT ELEVATION
N.T.S.



SIDE ELEVATION
N.T.S.

TETRA TECH RIZZO



One Grant Street
Framingham, MA 01701-9005
508.903.2000
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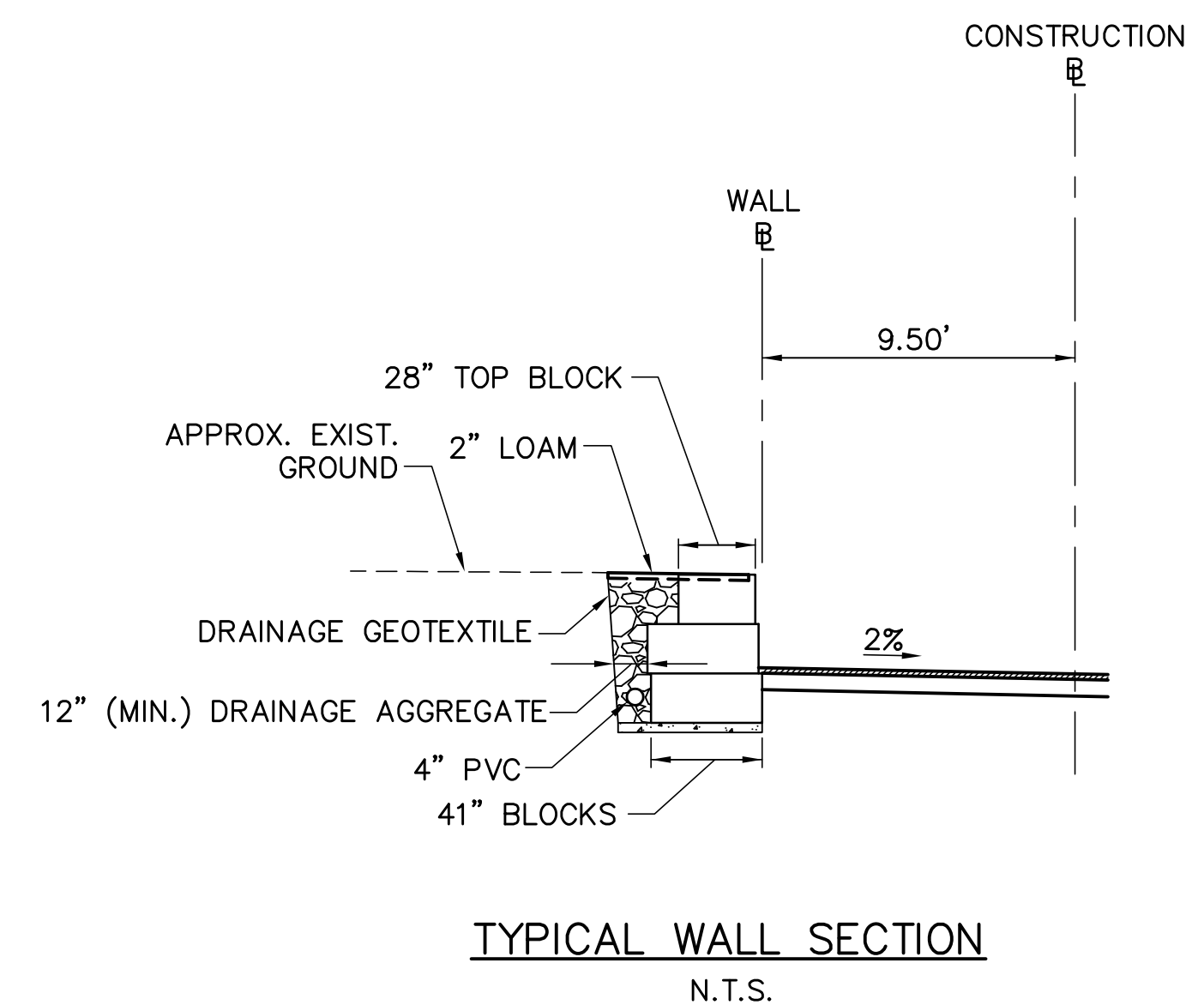
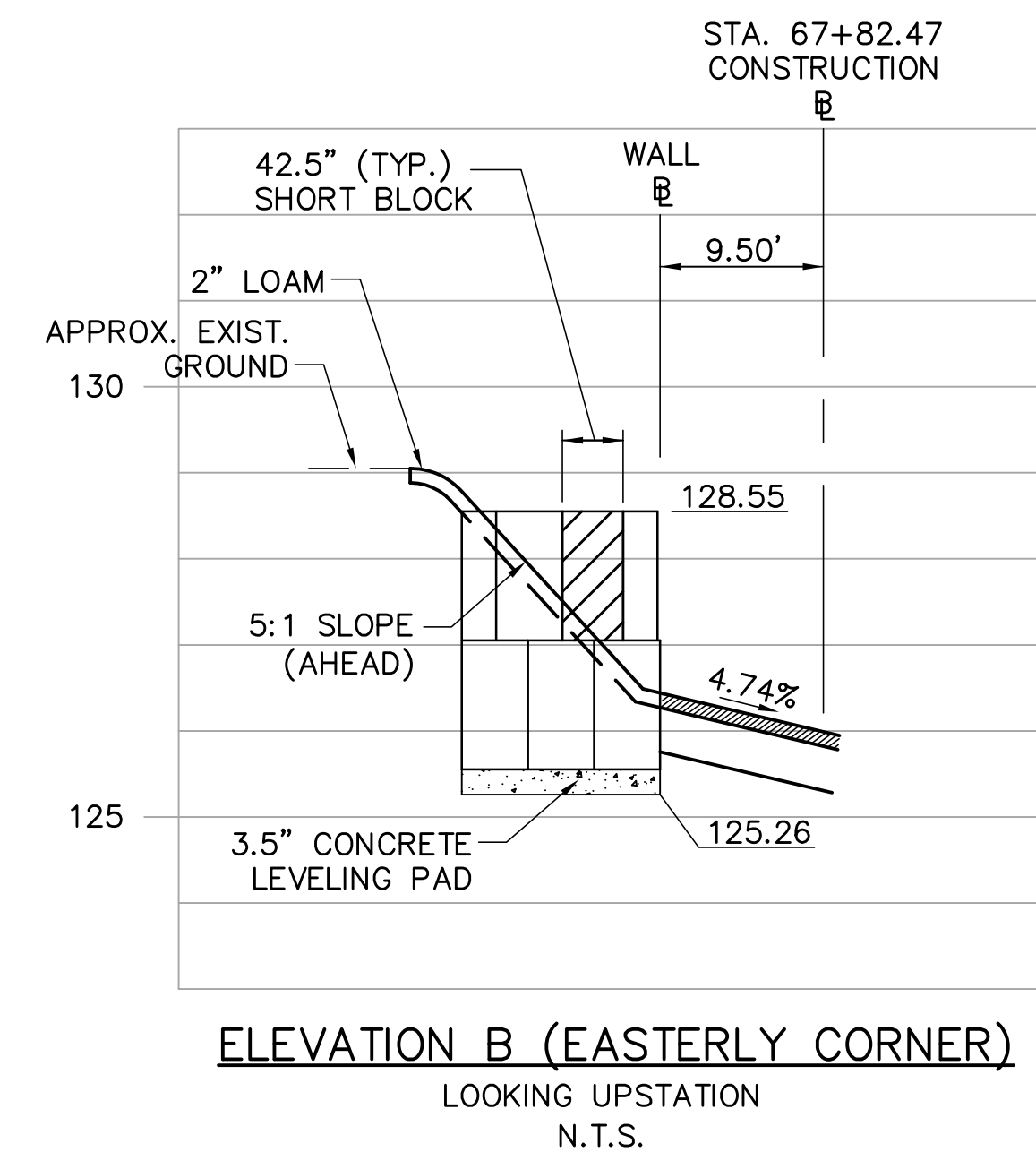
PROJ. MANAGER	JOEL KITREDGE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGNED	EAP	EAP	08/10			
DRAWN	EAP	EAP	08/10			
CHECKED	BWA	BWA	08/10			
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
REVISIONS 5						
FIELD CHANGES						

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
BOLLARD DETAILS

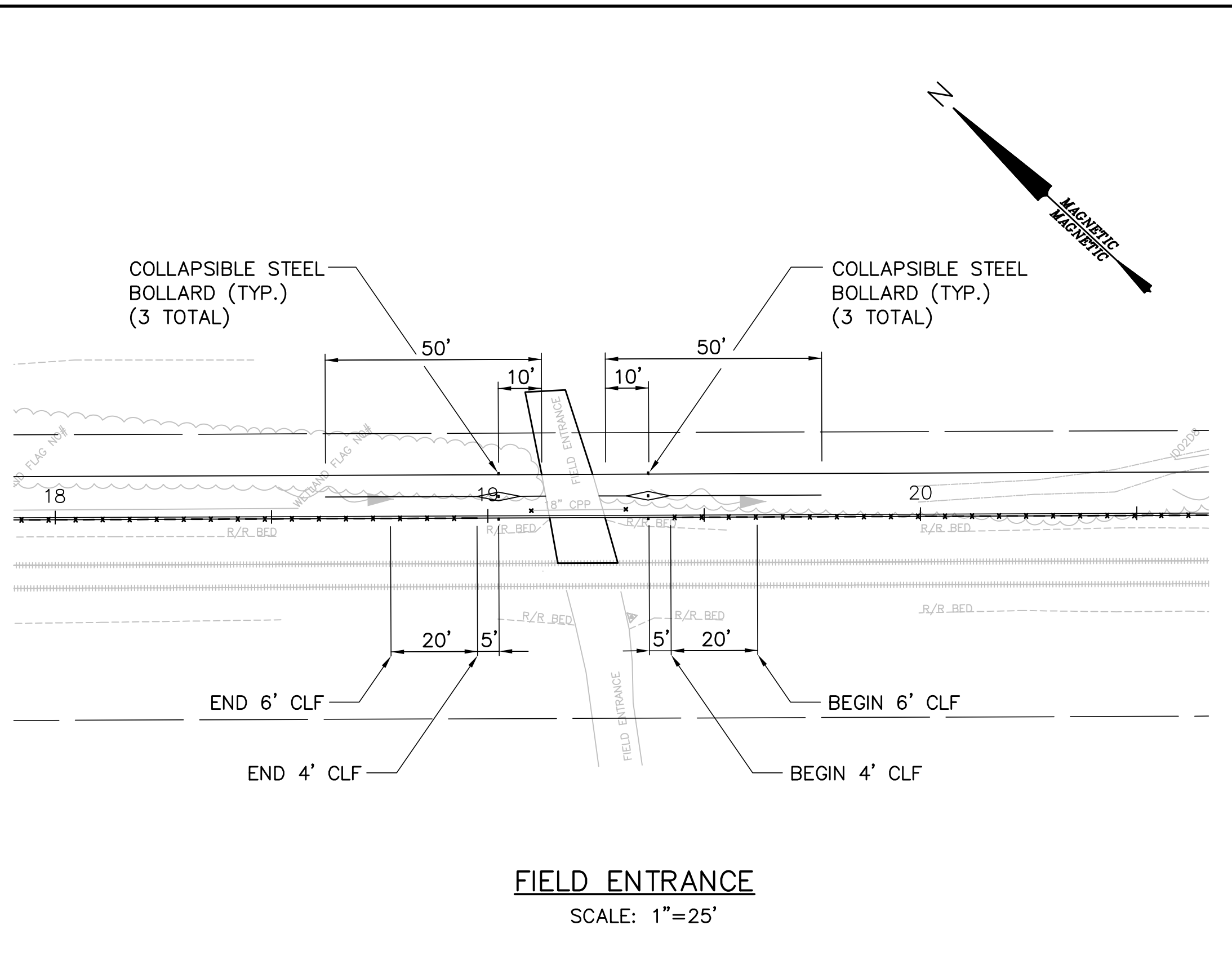
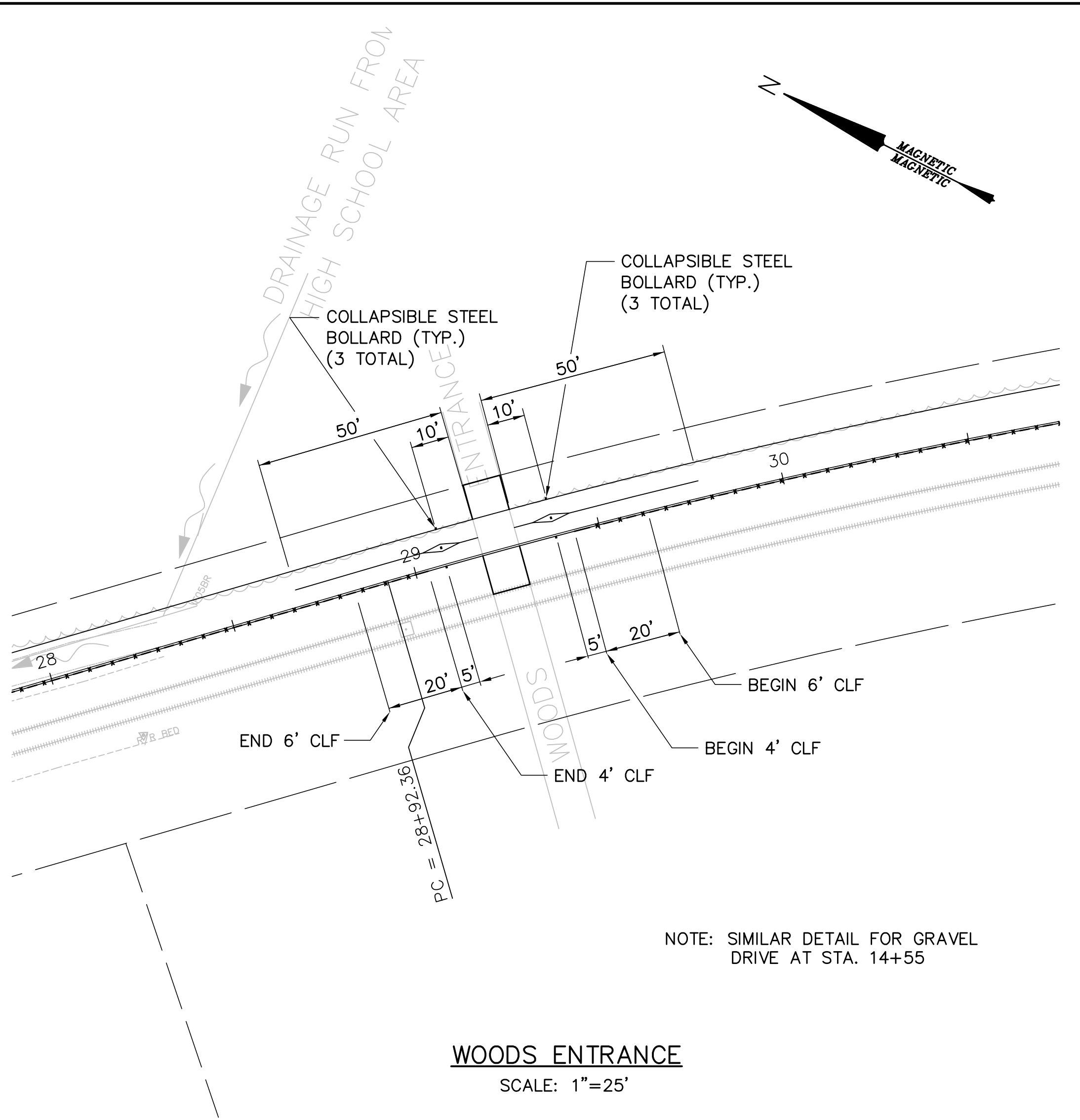
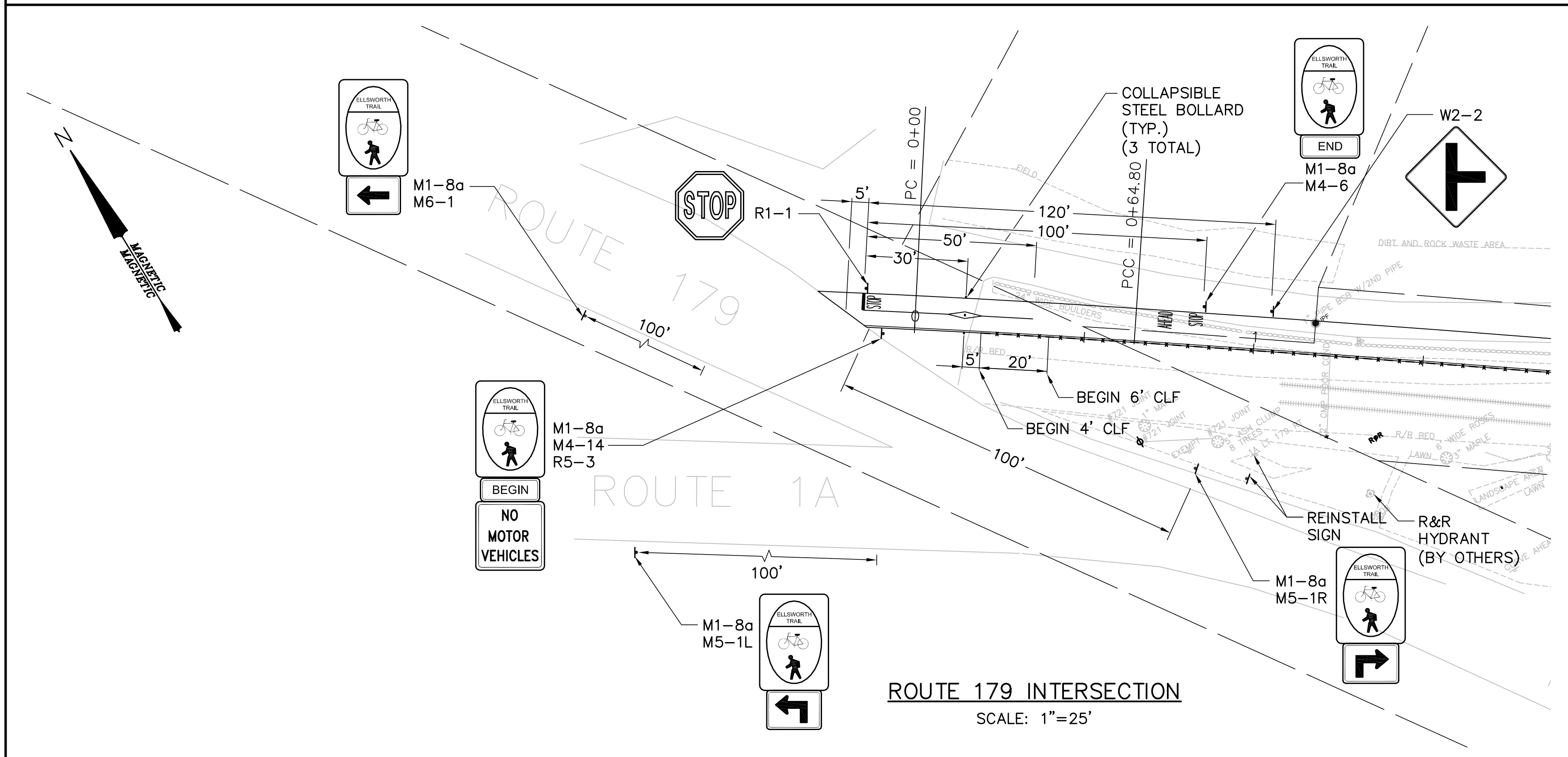
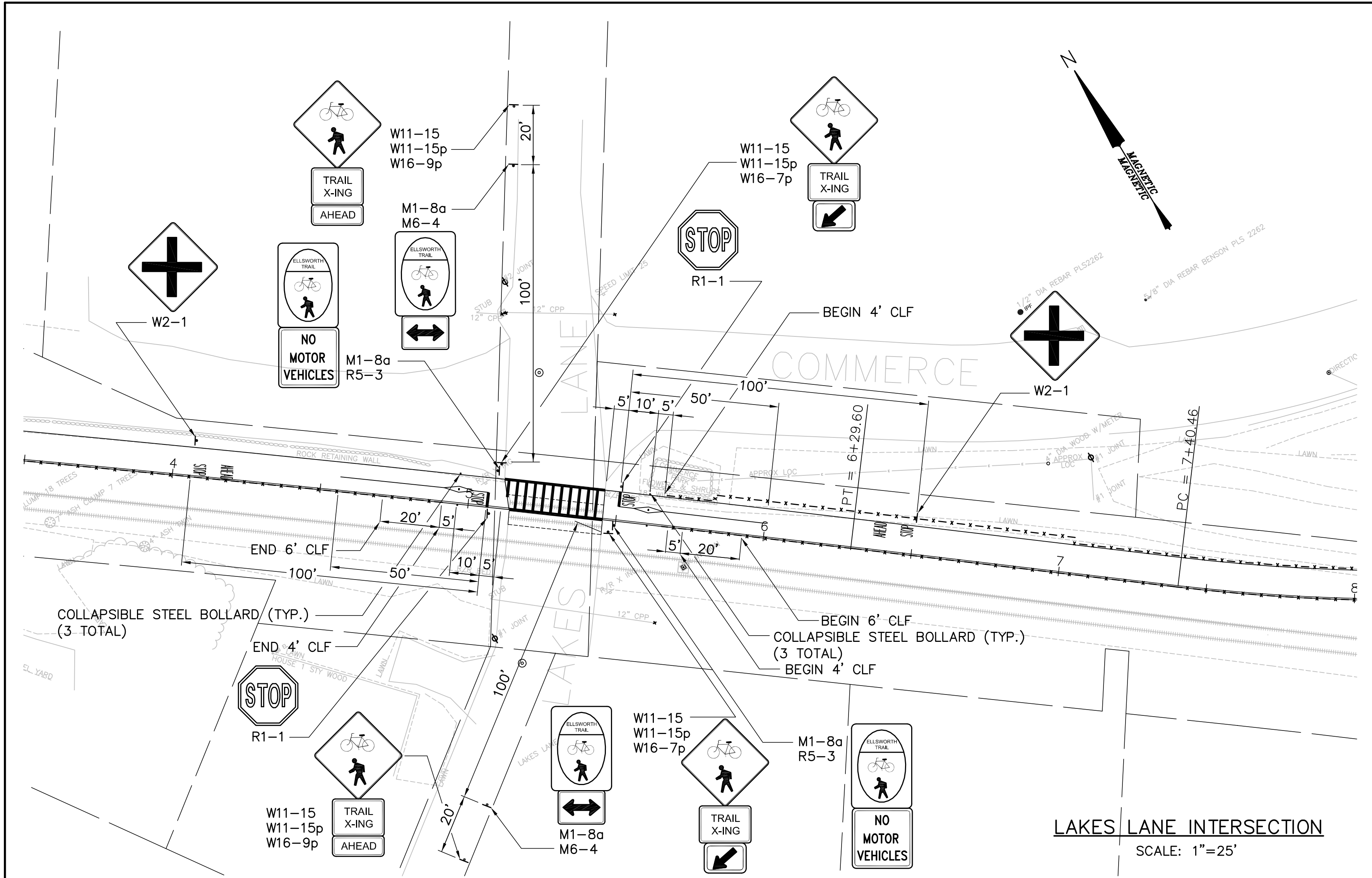
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8

OF 54



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TETRA TECH RIZZO

SIGNATURE

DATE

PROJ. MANAGER JOEL KITREDGE

ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL

SHEET NUMBER

10

OF 54

One Grant Street
Frammingham, MA 01701-9005
508.903.2000
www.tetrahezzo.com

SIGNATURE

DATE

PROJ. MANAGER JOEL KITREDGE

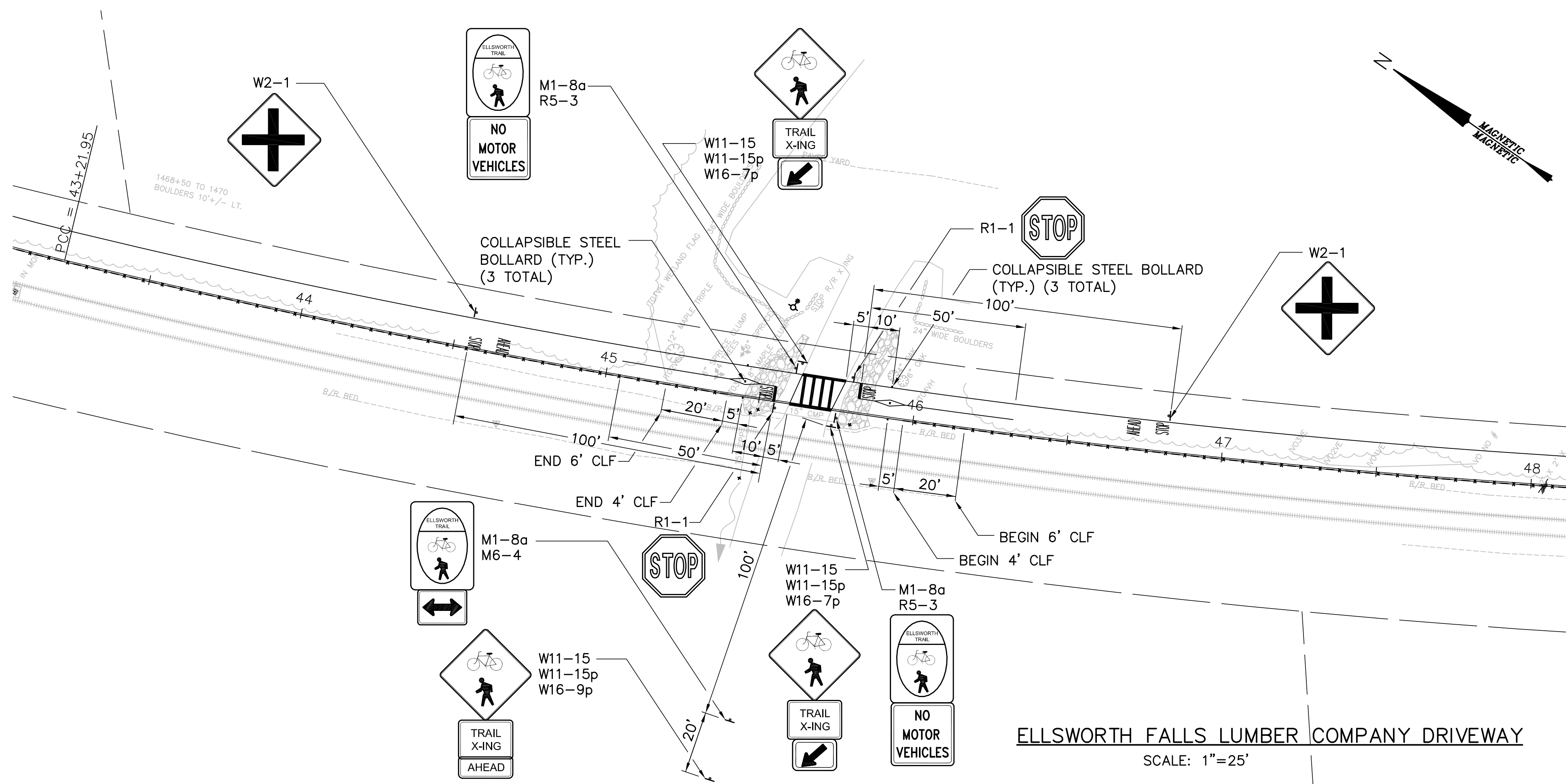
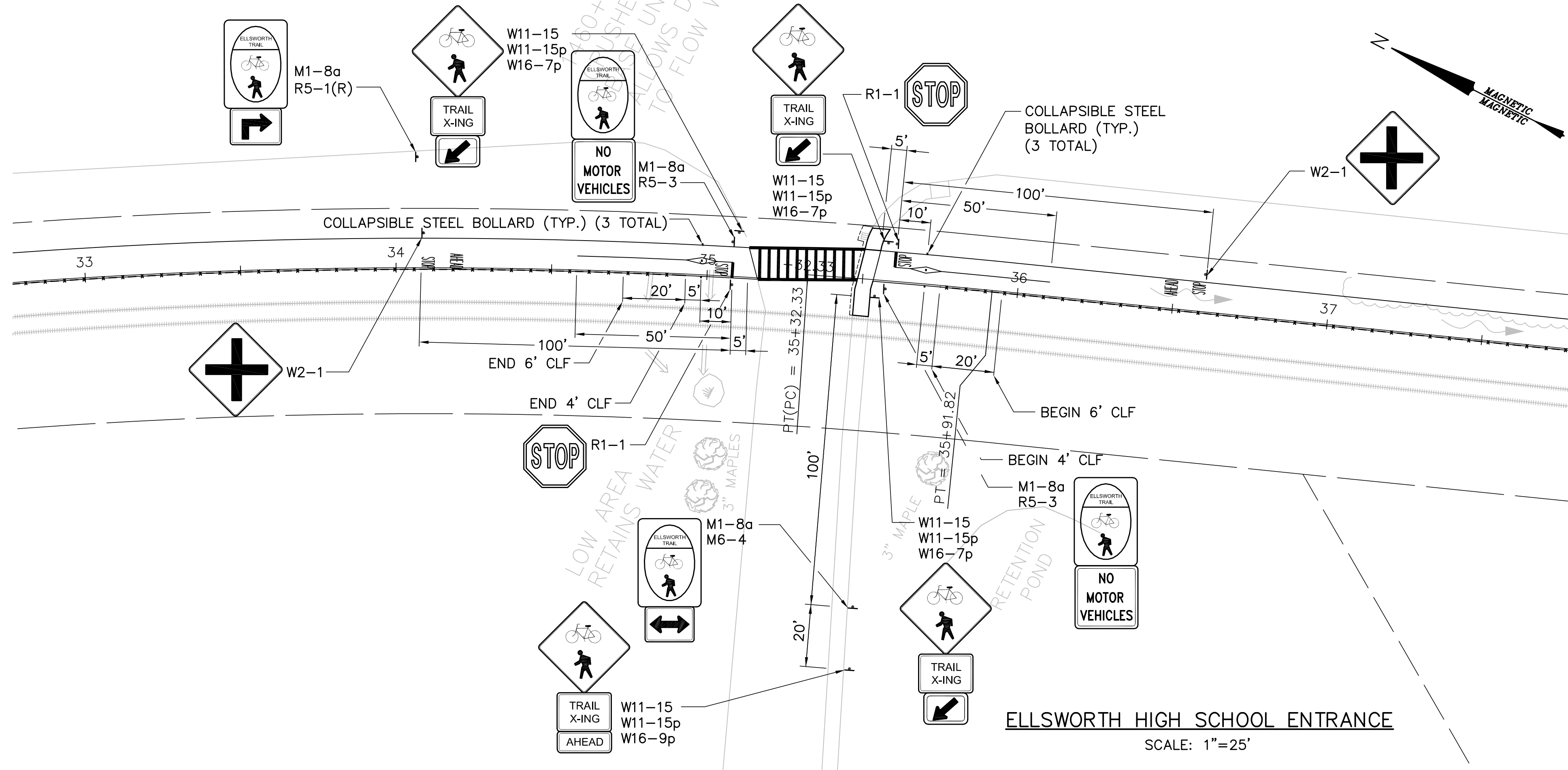
ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL

SHEET NUMBER

10

OF 54

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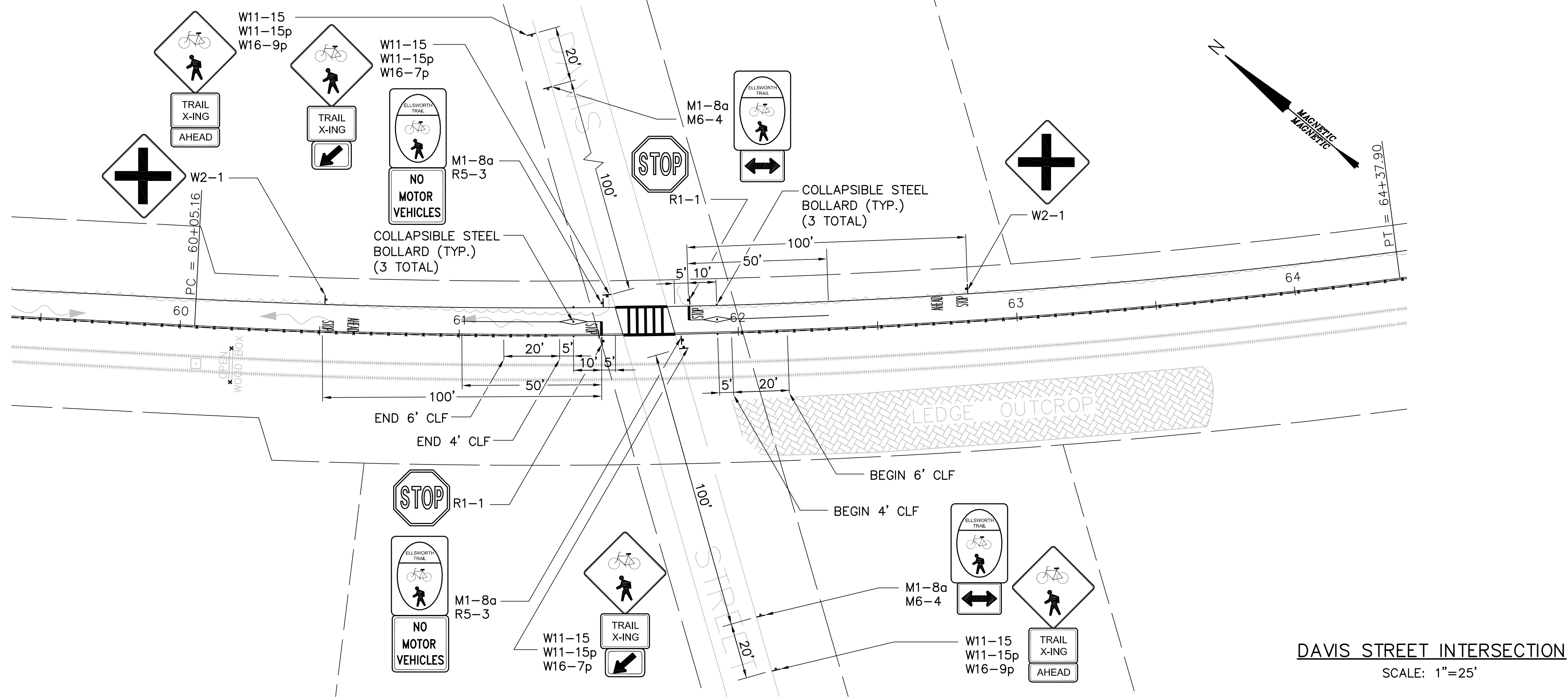


PROJ. MANAGER	JOEL KITREDGE	DATE	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGNED	EAP	08/10	08/10		5007	
DRAWN	EAP	08/10	08/10			
CHECKED	BWA					
REVISIONS	1					
REVISIONS	2					
REVISIONS	3					
REVISIONS	4					
REVISIONS	5					
FIELD CHANGES						

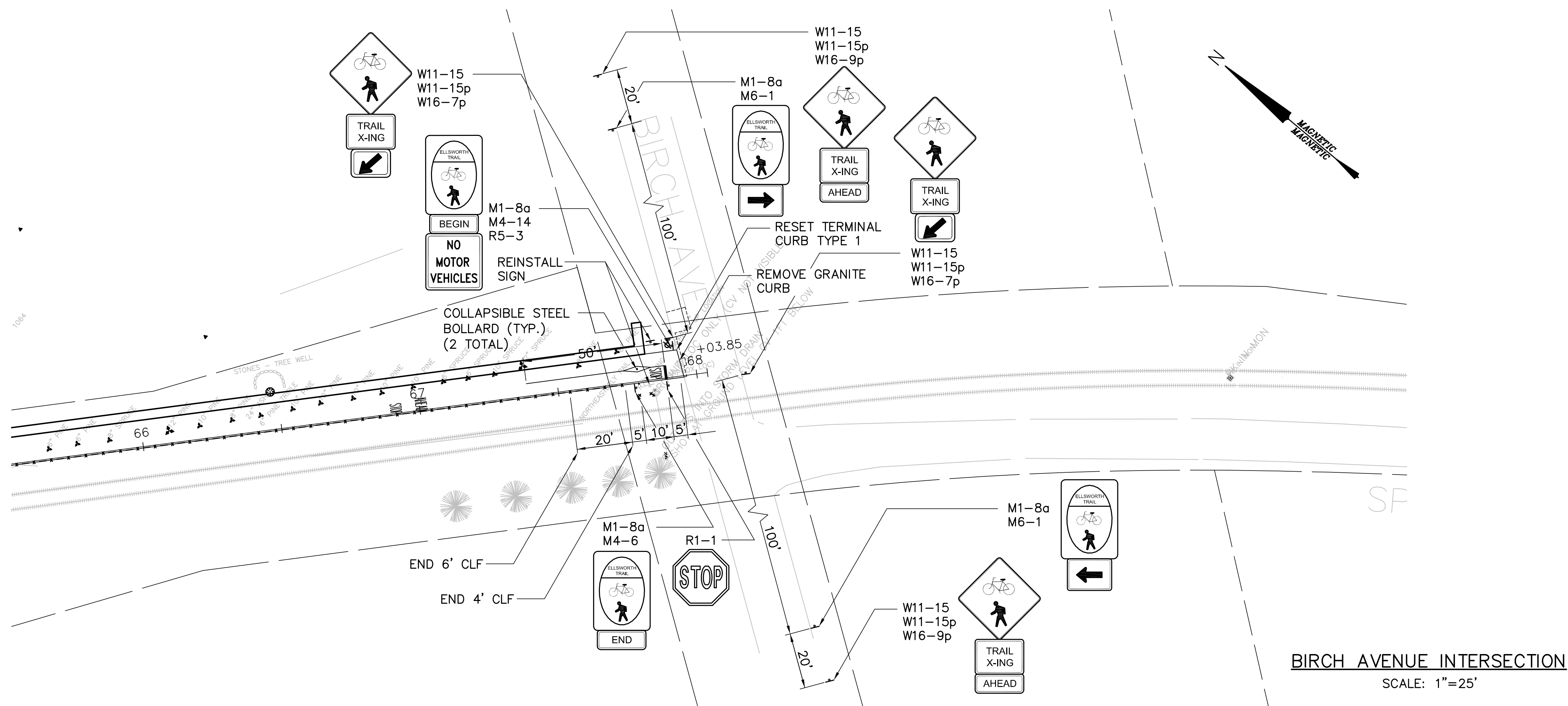
ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL

INTERSECTION DETAILS

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DAVIS STREET INTERSECTION
SCALE: 1"=25'

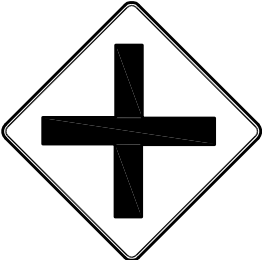
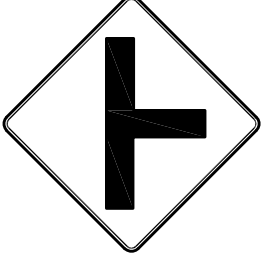


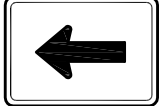
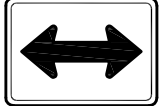
BIRCH AVENUE INTERSECTION
SCALE: 1"=25'

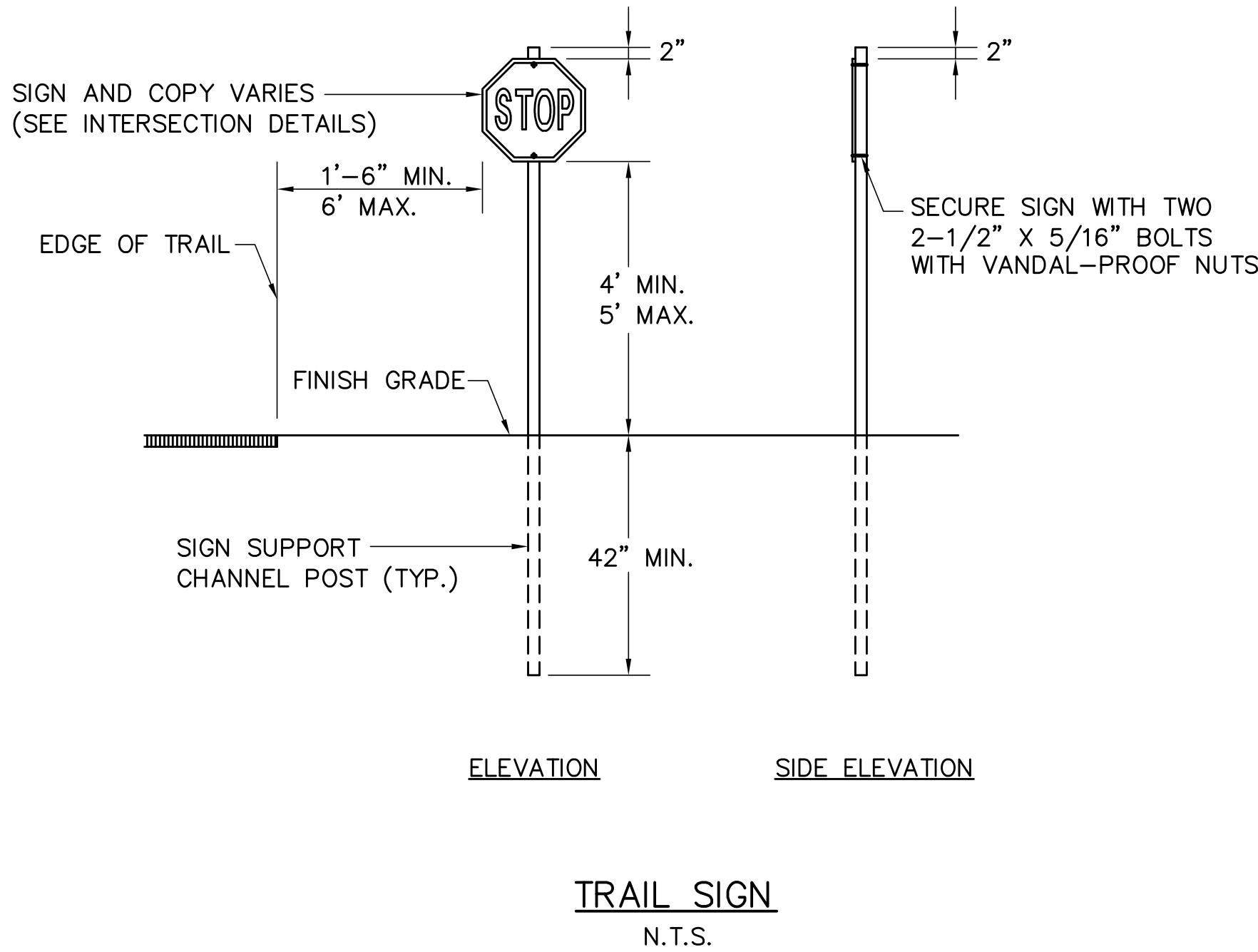
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DESIGNED	EAP	08/10	08/10	08/10	08/10
DRAWN	EAP				
CHECKED	BWA				
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
REVISIONS 5					
FIELD CHANGES					

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
INTERSECTION DETAILS

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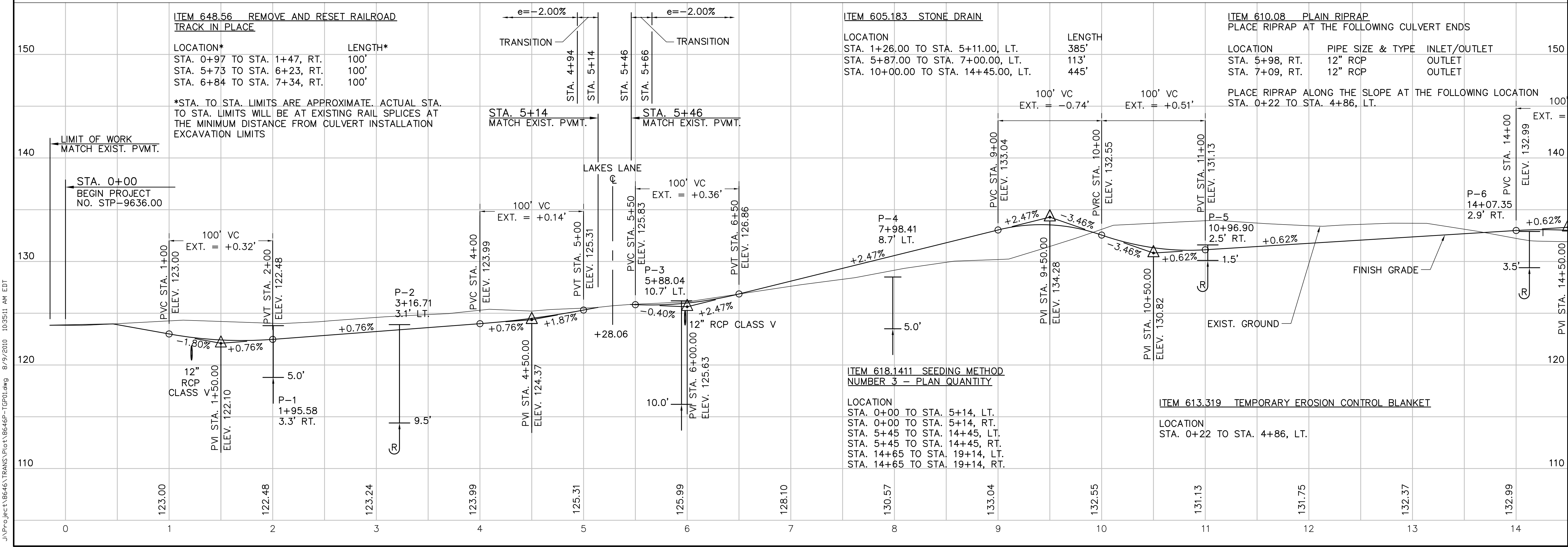
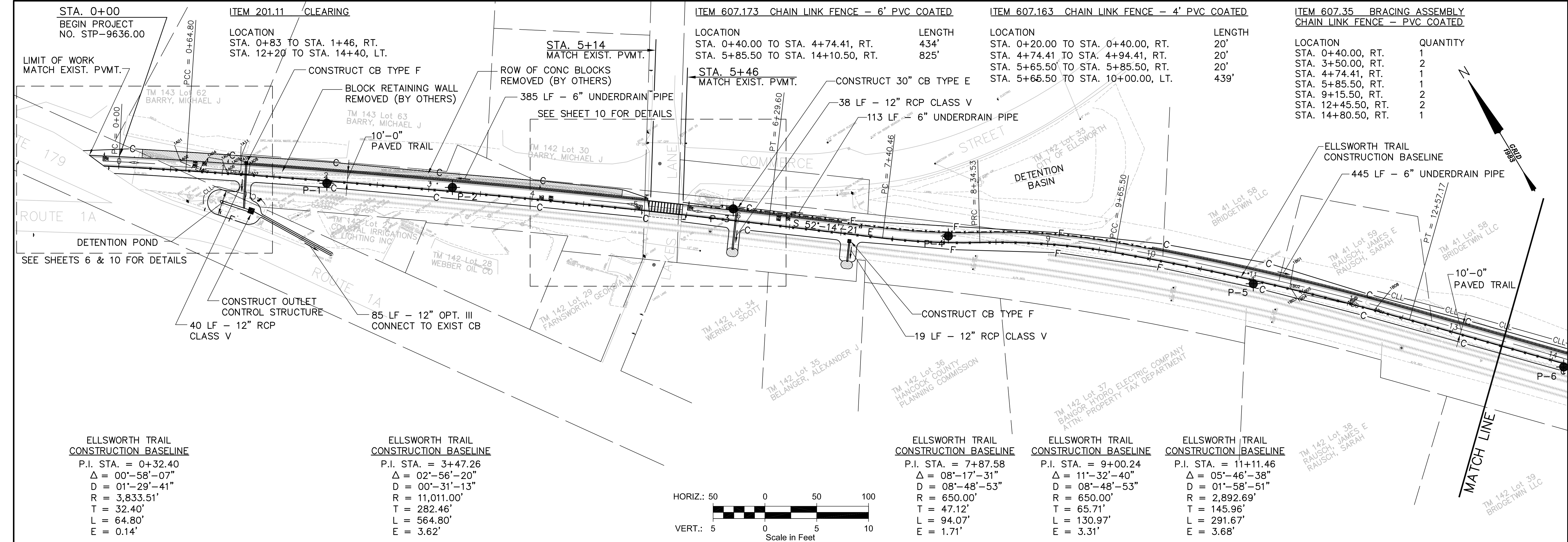
IDENTIFI- CATION NUMBER	SIZE OF SIGN (INCHES)		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND BORDER			
R1-1	18	18		SEE 2003 MUTCD			10	SEE 2003 MUTCD			2.25 (22.50)	
R5-3	24	24		SEE 2003 MUTCD			10	SEE 2003 MUTCD			4.00 (40.00)	
W2-1	18	18		SEE 2003 MUTCD			8	SEE 2003 MUTCD			2.25 (18.00)	
W2-2	18	18		SEE 2003 MUTCD			1	SEE 2003 MUTCD			2.25 (2.25)	
W11-15	18	18		SEE 2003 MUTCD			19	SEE 2003 MUTCD			2.25 (42.75)	
W11-15p	18	12		SEE 2003 MUTCD			19	SEE 2003 MUTCD			1.50 (28.50)	
W16-7p	18	9		SEE 2003 MUTCD			11	SEE 2003 MUTCD			1.13 (12.38)	
W16-9p	18	9		SEE 2003 MUTCD			8	SEE 2003 MUTCD			1.13 (9.00)	
M1-8a	12	18		SEE 2003 MUTCD			24	SEE 2003 MUTCD			1.50 (36.00)	
M4-6	12	6		SEE 2003 MUTCD			2	SEE 2003 MUTCD			0.50 (1.00)	
M4-14	12	6		SEE 2003 MUTCD			2	SEE 2003 MUTCD			0.50 (1.00)	
M5-1R	12	9		SEE 2003 MUTCD			2	SEE 2003 MUTCD			0.75 (1.50)	

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			
M5-1L	12	9		SEE 2003 MUTCD			1	SEE 2003 MUTCD			0.75 (0.75)	
M6-1	12	9		SEE 2003 MUTCD			3	SEE 2003 MUTCD			0.75 (2.25)	
M6-4	12	9		SEE 2003 MUTCD			6	SEE 2003 MUTCD			0.75 (4.50)	



NOTES:

1. ALL SIGNS SHALL BE SHEET ALUMINUM.



ITEM 201.11 CLEARING

LOCATION
STA. 12+20 TO STA. 14+40, LT.
STA. 14+60 TO STA. 19+09, LT.
STA. 19+18 TO STA. 29+18, LT.

ITEM 607.163 CHAIN LINK FENCE – 4' PVC COATED

LOCATION	LENGTH
STA. 14+10.50 TO STA. 14+30.50, RT.	20'
STA. 14+80.50 TO STA. 15+00.50, RT.	20'
STA. 18+77.50 TO STA. 18+97.50, RT.	20'
STA. 19+42.25 TO STA. 19+62.25, RT.	20'
STA. 20+75.00 TO STA. 21+25.00, LT.	50'

ITEM 607.173 CHAIN LINK FENCE – 6' PVC COATED

LOCATION	LENGTH
STA. 5+85.50 TO STA. 14+10.50, RT.	825'
STA. 15+00.50 TO STA. 18+77.50, RT.	377'
STA. 19+62.25 TO STA. 28+83.30, RT.	921'

ITEM 607.35 BRACING ASSEMBLY
CHAIN LINK FENCE – PVC COATED

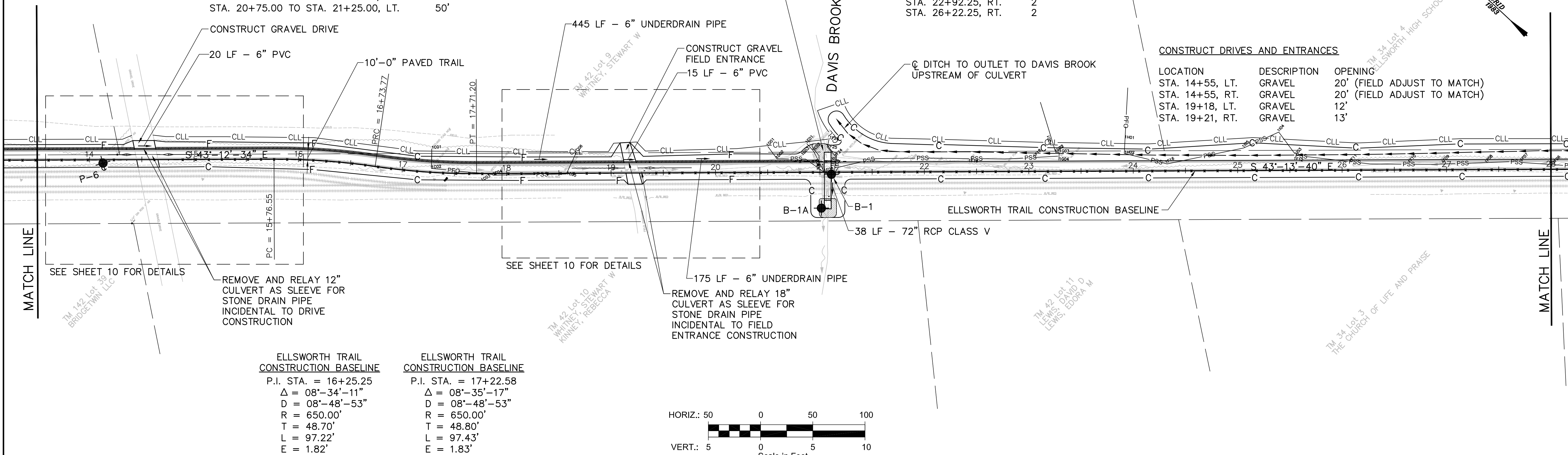
LOCATION	QUANTITY
STA. 15+00.50, RT.	1
STA. 18+77.50, RT.	1
STA. 19+62.25, RT.	1
STA. 22+92.25, RT.	2
STA. 26+22.25, RT.	2

ITEM 610.08 PLAIN RIPRAP
PLACE RIPRAP AT THE FOLLOWING CULVERT ENDS

LOCATION	PIPE SIZE & TYPE	INLET/OUTLET
STA. 21+07, LT.	72" RCP	INLET
STA. 21+07, RT.	72" RCP	OUTLET

PIPE SIZE & TYPE	INLET/OUTLET
72" RCP	INLET
72" RCP	OUTLET

INLET/OUTLET
INLET
OUTLET



ELLSWORTH TRAIL
CONSTRUCTION BASELINE
P.I. STA. = 16+25.25
 $\Delta = 08^{\circ}-34'-11''$
 $D = 08^{\circ}-48'-53''$
 $R = 650.00'$
 $T = 48.70'$
 $L = 97.22'$
 $E = 1.82'$

ELLSWORTH TRAIL
CONSTRUCTION BASELINE
P.I. STA. = 17+22.58
 $\Delta = 08^{\circ}-35'-17''$
 $D = 08^{\circ}-48'-53''$
 $R = 650.00'$
 $T = 48.80'$
 $L = 97.43'$
 $E = 1.83'$

150	ITEM 202.12 REMOVING EXISTING STRUCTURAL CONCRETE
-----	--

REMOVE WINGWALLS AND HEADWALLS AT
EXISTING 72" CULVERT AT DAVIS STREAM

ITEM 605.183 STONE DRAIN

LOCATION		
STA. 10+00.00 TO STA. 14+45.00, LT.		
STA. 14+65.00 TO STA. 19+10.00, LT.		
STA. 19+25.00 TO STA. 21+00.00, LT.		

LENGTH	
445'	
445'	
175'	

ITEM 613.319	TEMPORARY EROSION
CONTROL BLANKET	

LOCATION
STA. 21+14 TO STA. 28+40, LT

ITEM 618.1411 SEEDING METHOD
NUMBER 3 - PLAN QUANTITY

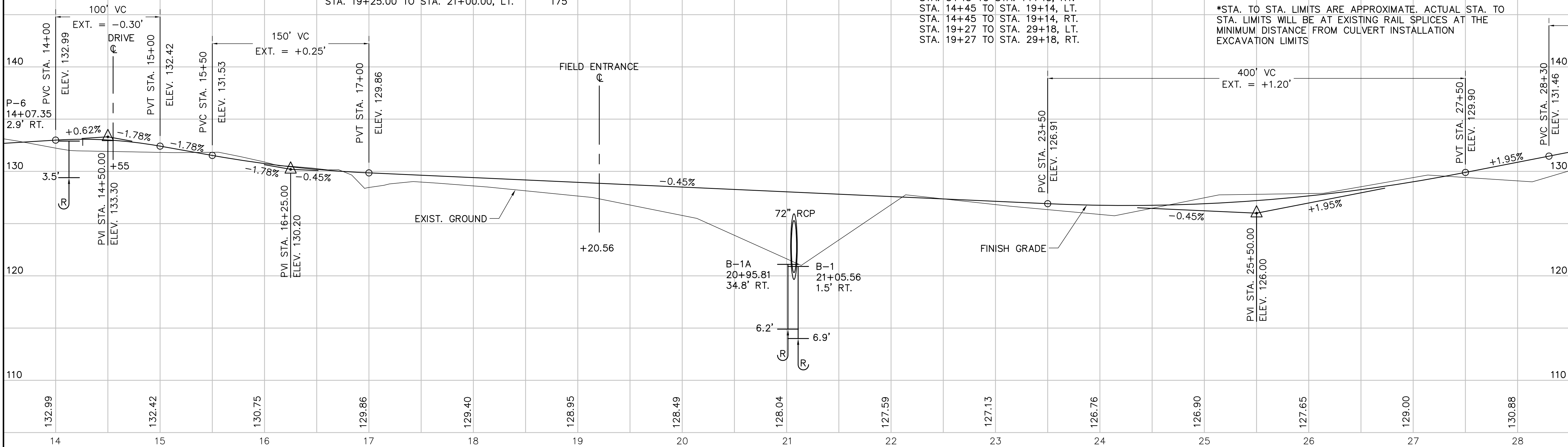
LOCATION			
STA. 5+45 TO STA. 14+45	TO STA. 14+45, LT.		
STA. 5+45 TO STA. 14+45	TO STA. 14+45, RT.		
STA. 14+45 TO STA. 19+14	TO STA. 19+14, LT.		
STA. 14+45 TO STA. 19+14	TO STA. 19+14, RT.		
STA. 19+27 TO STA. 29+18	TO STA. 29+18, LT.		
STA. 19+27 TO STA. 29+18	TO STA. 29+18, RT.		

ITEM 648.56	REMOVE AND RESET RAILROAD			
	TRACK IN PLACE			

LOCATION*	LENG
STA. 20+82 TO STA. 21+32, RT.	100'

LENC
100'

*STA. TO STA. LIMITS ARE APPROXIMATE. ACTUAL STA. TO STA. LIMITS WILL BE AT EXISTING RAIL SPLICES AT THE MINIMUM DISTANCE FROM CULVERT INSTALLATION EXCAVATION LIMITS



ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL

PLAN AND PROFILE

SHEET NUMBER

15

OF 54

ITEM 201.11 CLEARING

LOCATION
STA. 45+82 TO STA. 61+53, LT.
STA. 61+72 TO STA. 65+26, LT.

ITEM 607.163 CHAIN LINK FENCE – 4' PVC COATED

LOCATION	LENGTH
STA. 61+15.96 TO STA. 61+35.96, RT.	20'
STA. 61+97.55 TO STA. 62+17.55, RT.	20'
STA. 67+54.00 TO STA. 67+74.00, RT.	20'

ITEM 607.173 CHAIN LINK FENCE – 6' PVC COATED

LOCATION	LENGTH
STA. 46+16.81 TO STA. 61+15.96, RT.	1,499'
STA. 62+17.55 TO STA. 67+54.00, RT.	536'

ITEM 607.35 BRACING ASSEMBLY
CHAIN LINK FENCE – PVC COATED

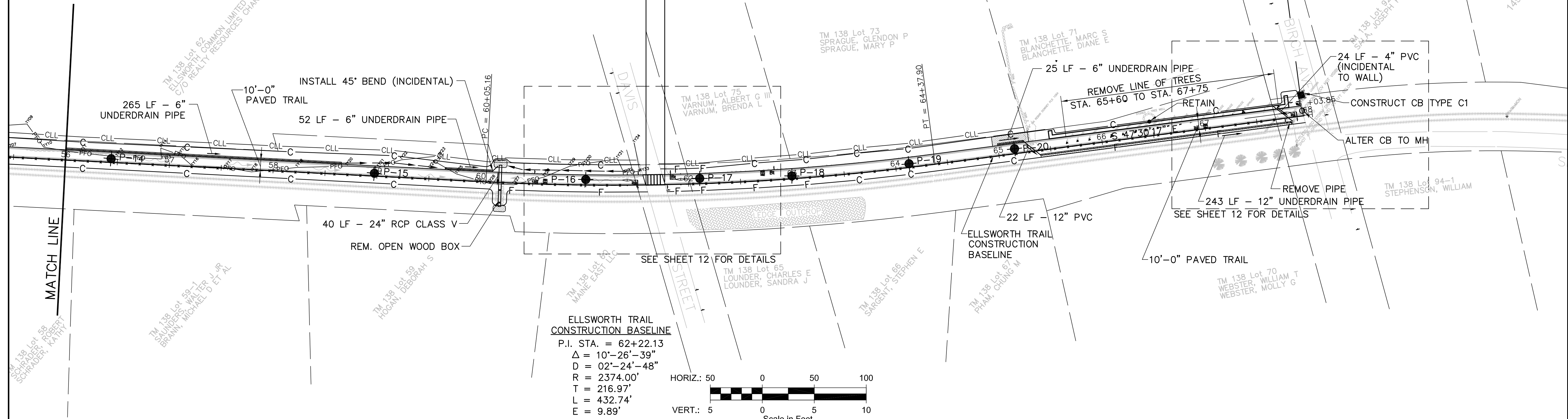
LOCATION	QUANTITY
STA. 56+06.81, RT.	2
STA. 59+36.81, RT.	2
STA. 61+15.96, RT.	1
STA. 62+17.55, RT.	1
STA. 65+47.55, RT.	2
STA. 67+54.00, RT.	1

REMOVE STONE WALL (INCIDENTAL)
STA. 65+30.5, 18.7' LT. TO STA. 65+32.2, 0.5' RT.

REMOVE WOOD FENCE (INCIDENTAL)
STA. 65+37.6, 18.7' LT. TO STA. 65+61.5, 2.0' RT.

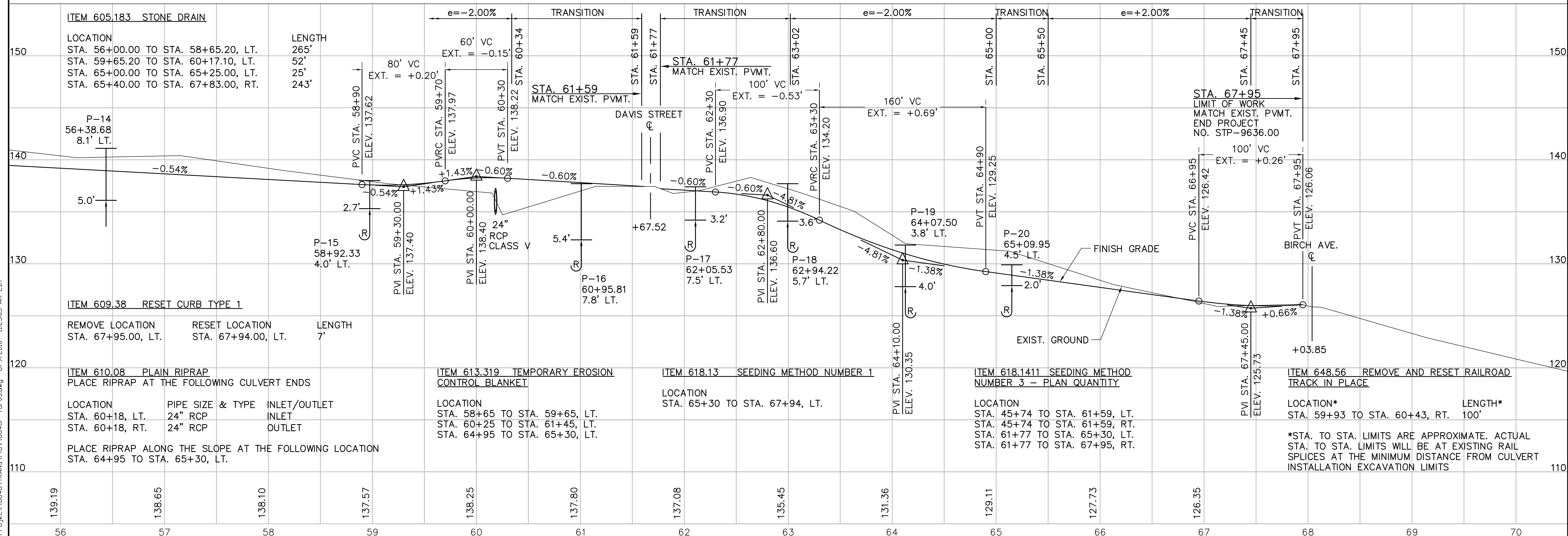
TREE PLANTING
(18 TREES)
BY OTHERS

STA. 67+95
LIMIT OF WORK
MATCH EXIST. PVMT.
END PROJECT
NO. STP-9636.00



ITEM 605.183 STONE DRAIN

LOCATION		
STA. 56+00.00 TO STA. 58+65.20, LT.		
STA. 59+65.20 TO STA. 60+17.10, LT.		
STA. 65+00.00 TO STA. 65+25.00, LT.		
STA. 65+40.00 TO STA. 67+83.00, RT.		



ITEM 609.38 RESET CURB TYPE 1

REMOVE LOCATION	RESET LOCATION	LENGTH
STA. 67+95.00, LT.	STA. 67+94.00, LT.	7'

ITEM 610.08 PLAIN RIPRAP

LOCATION	PIPE SIZE & TYPE	INLET/OUTLET
STA. 60+18, LT.	24" RCP	INLET
STA. 60+18, RT.	24" RCP	OUTLET

PLACE RIPRAP ALONG THE SLOPE AT THE FOLLOWING LOCATION
STA. 64+95 TO STA. 65+30, LT.

ITEM 613.319	TEMPORARY EROSION	
CONTROL BLANKET		

LOCATION		
STA. 58+65 TO STA. 59+65,	LT.	
STA. 60+25 TO STA. 61+45,	LT.	
STA. 64+95 TO STA. 65+30,	LT.	

ITEM	618.13	SEEDING METHOD NUMBER 1
------	--------	-------------------------

LOCATION	
STA. 65+30 TO STA. 67+94, LT.	

ITEM	618.1411	SEEDING METHOD
NUMBER	3	PLAN QUANTITY

LOCATION	
STA. 45+74 TO STA. 61+59,	LT.
STA. 45+74 TO STA. 61+59,	RT.
STA. 61+77 TO STA. 65+30,	LT.
STA. 61+77 TO STA. 67+95,	RT.

ITEM 648.56	REMOVE AND RESET RAILROAD		
	TRACK IN PLACE		

LOCATION*	LENGTH*
STA. 59+93 TO STA. 60+43. RT.	100'

*STA. TO STA. LIMITS ARE APPROXIMATE. ACTUAL STA. TO STA. LIMITS WILL BE AT EXISTING RAIL SPLICES AT THE MINIMUM DISTANCE FROM CULVERT INSTALLATION EXCAVATION LIMITS

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
PLAN AND PROFILE

SHEET NUMBER

18

OF 54

PROJ. MANAGER	BY	DATE
DESIGNED	EAP	08/10
DRAWN	EAP	08/10
CHECKED	BWA	08/10
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
FIELD CHANGES		



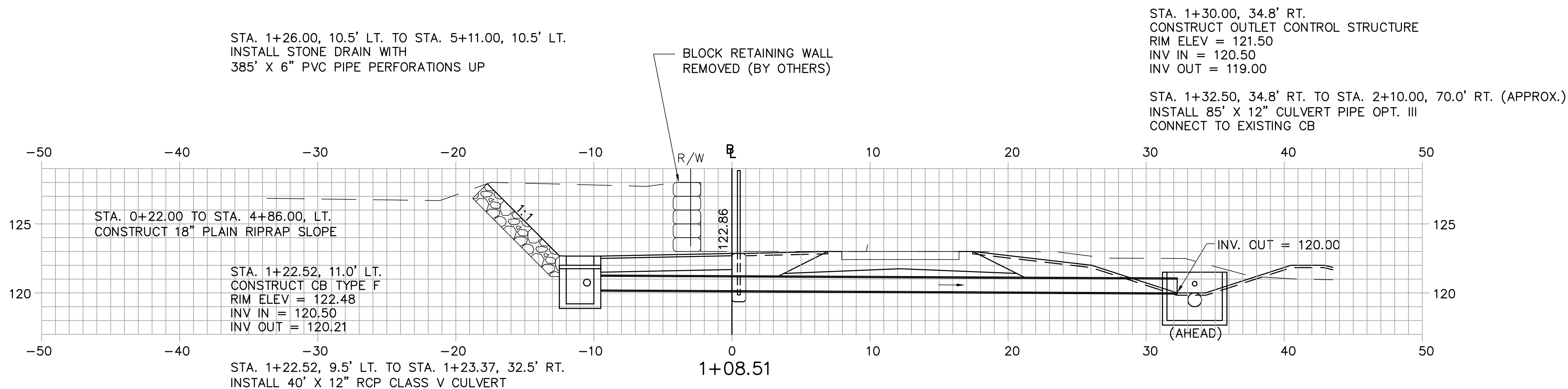
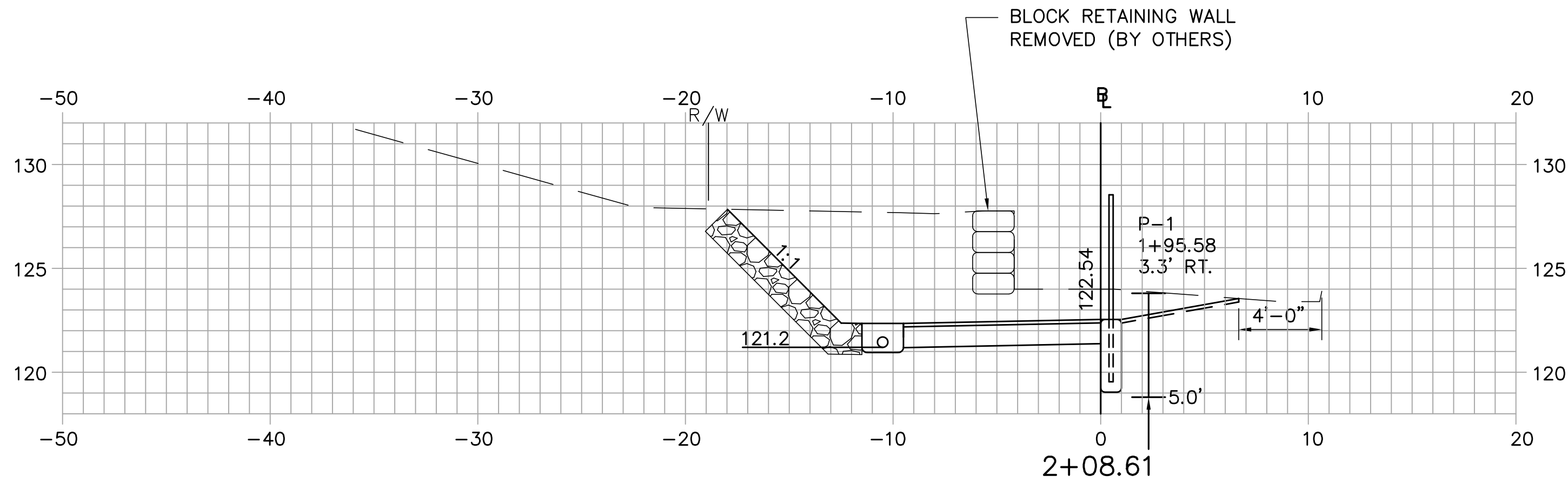
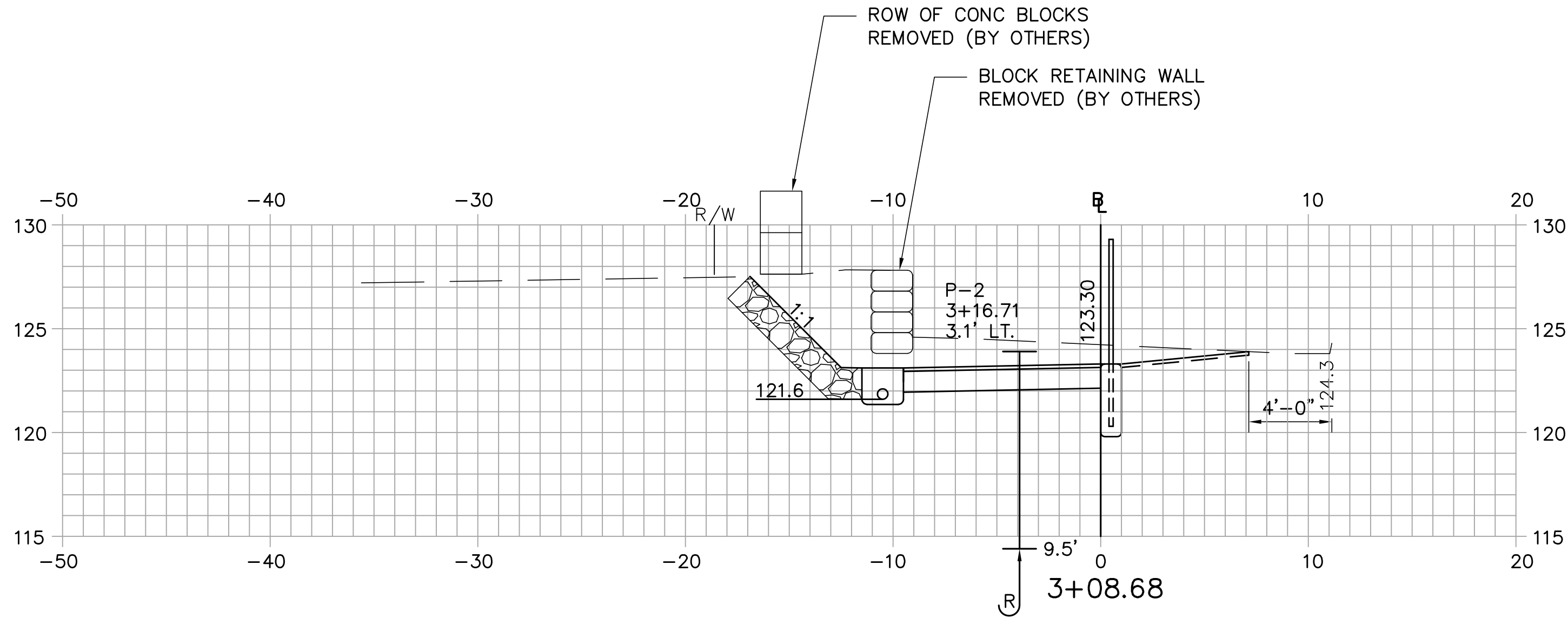
TETRA TECH RIZZO

One Grant Street
 Boston, MA 01701-9005
 508.903.2000
www.tetratechrizzo.com

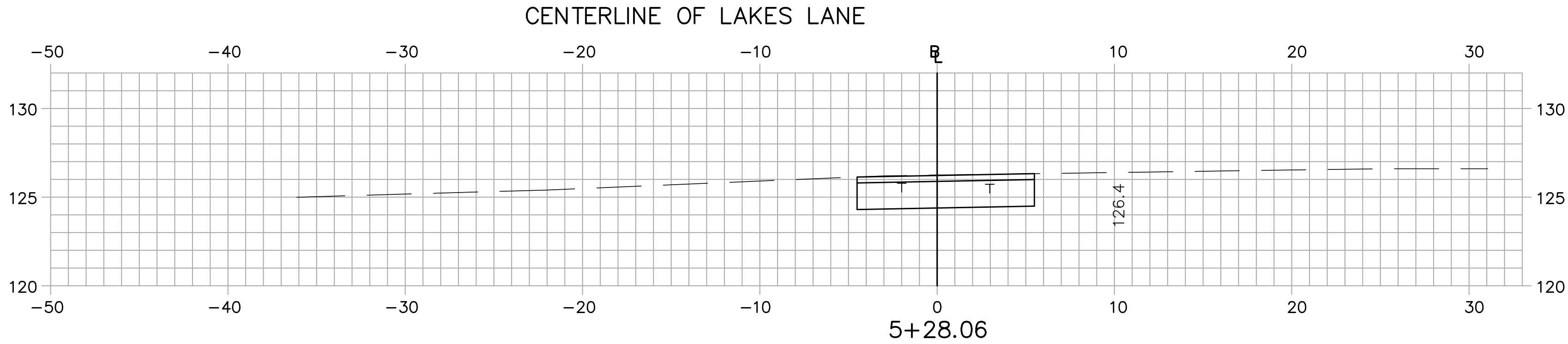


One Grant Street
Framingham, MA 01701-9005
508.903.2000
www.tetratetechrizzo.com

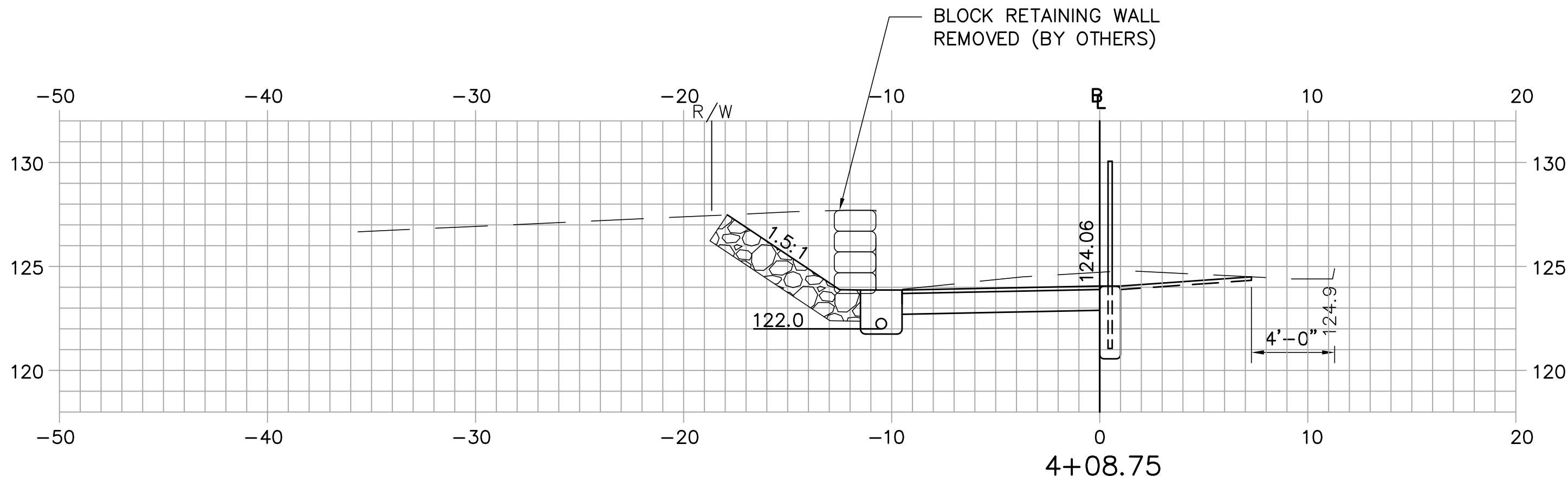
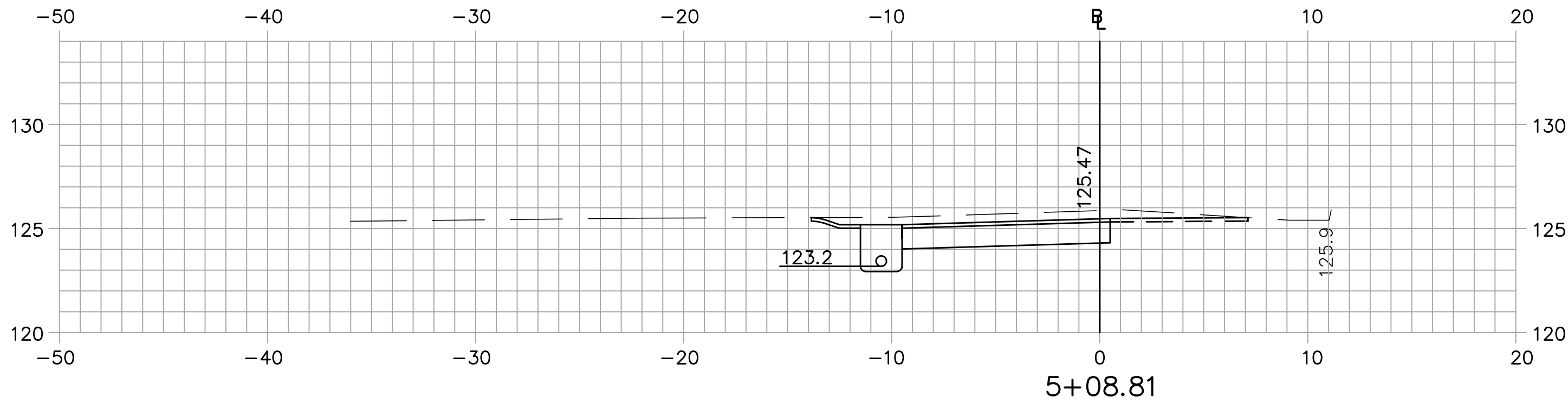
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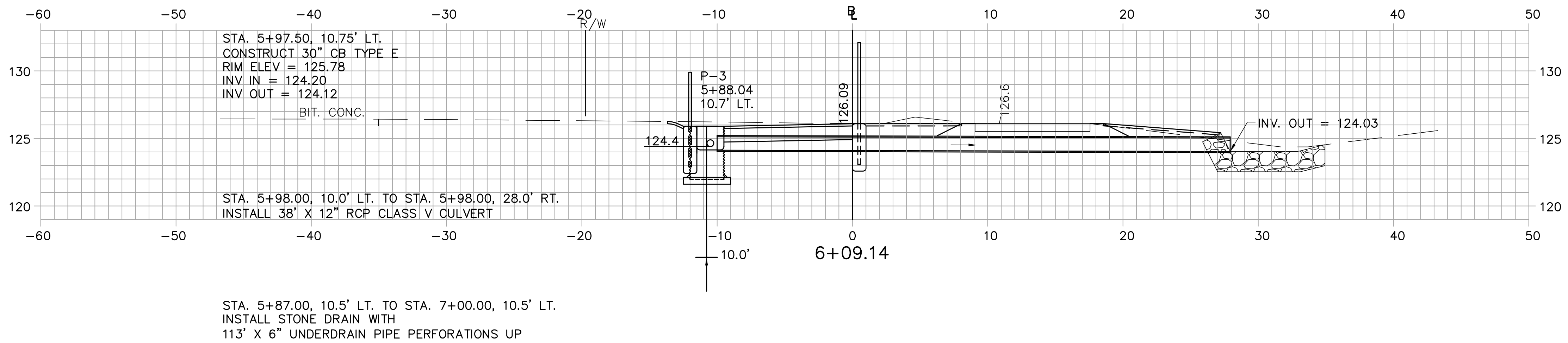
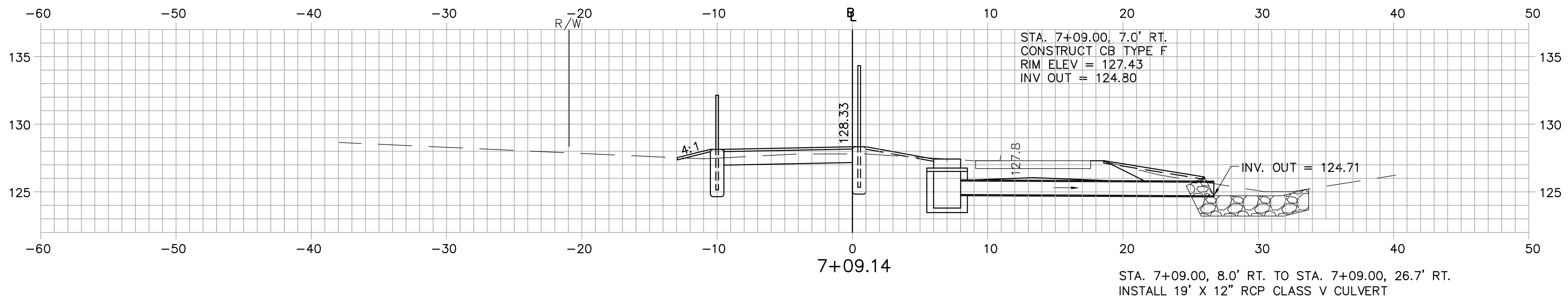
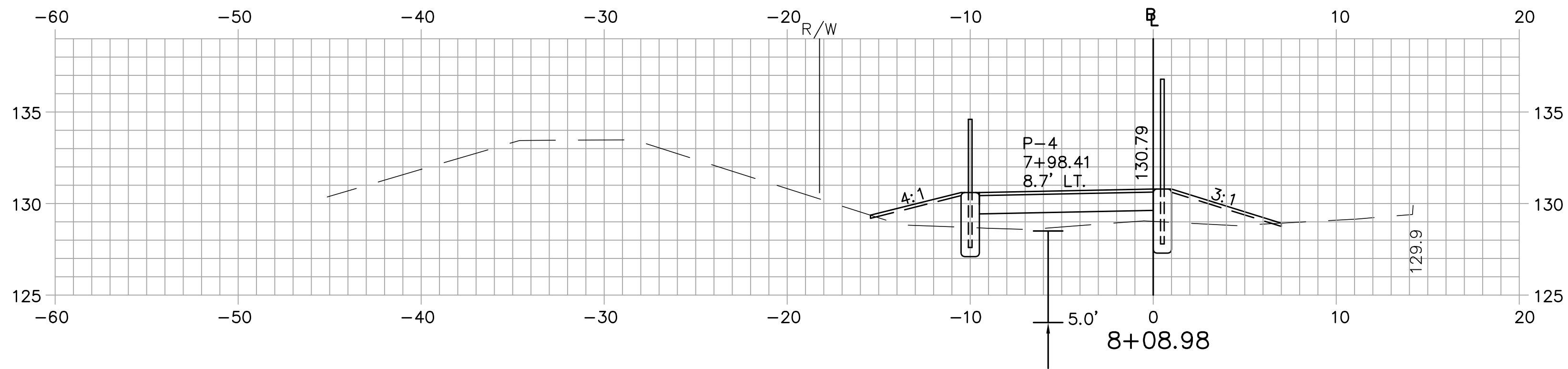


REMOVE AND STACK RAIL SECTIONS, TIES, AND ALL TRACK HARDWARE REMOVED FROM LAKES LANE TO A LOCATION ON THE PROJECT ESTABLISHED IN COORDINATION WITH THE ENGINEER (INCIDENTAL) RECONSTRUCT LAKES LANE SUBBASE AND PAVEMENT (4" HOT MIX ASPHALT OVER 18" AGG. SUBBASE COURSE - GRAVEL)



PROJ. MANAGER	JOEL KITREDGE	BY	DATE	5007
DESIGNED		EAP	08/10	
DRAWN		EAP	08/10	
CHECKED		BWA	08/10	SIGNATURE
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				P.E. NUMBER
REVISIONS 4				
REVISIONS 5				
FIELD CHANGES				DATE

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS



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FIELD CHANGES			
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ELLSWORTH

BICYCLE AND PEDESTRIAN TRAIL

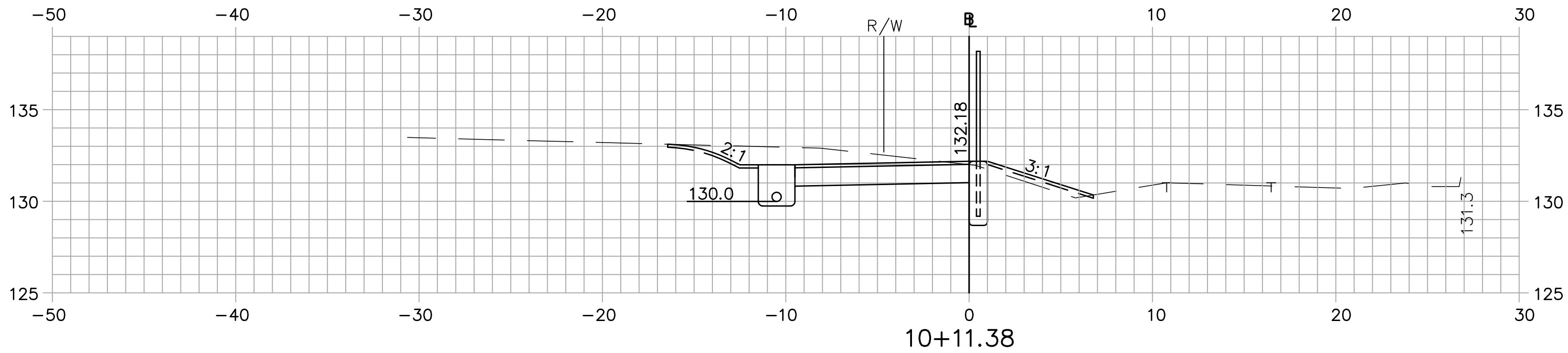
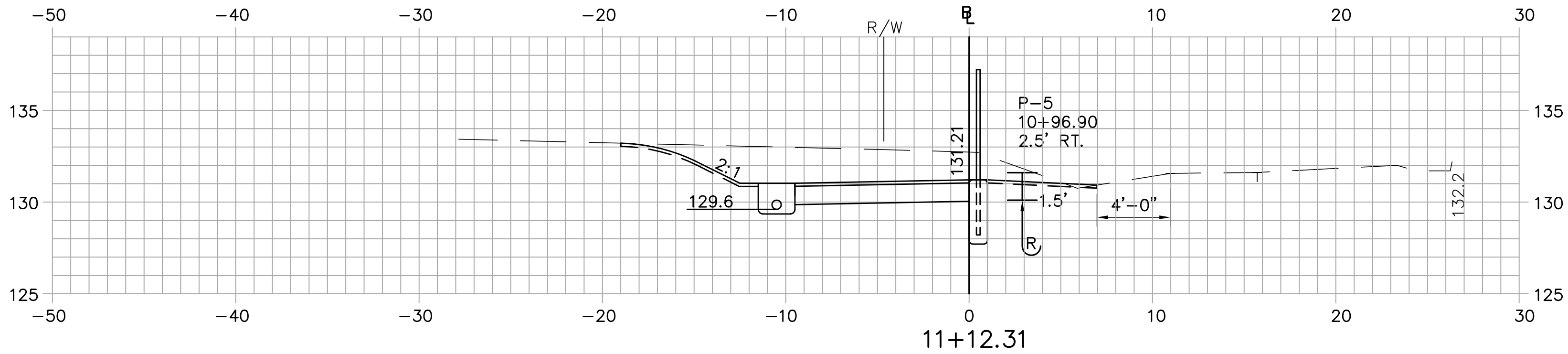
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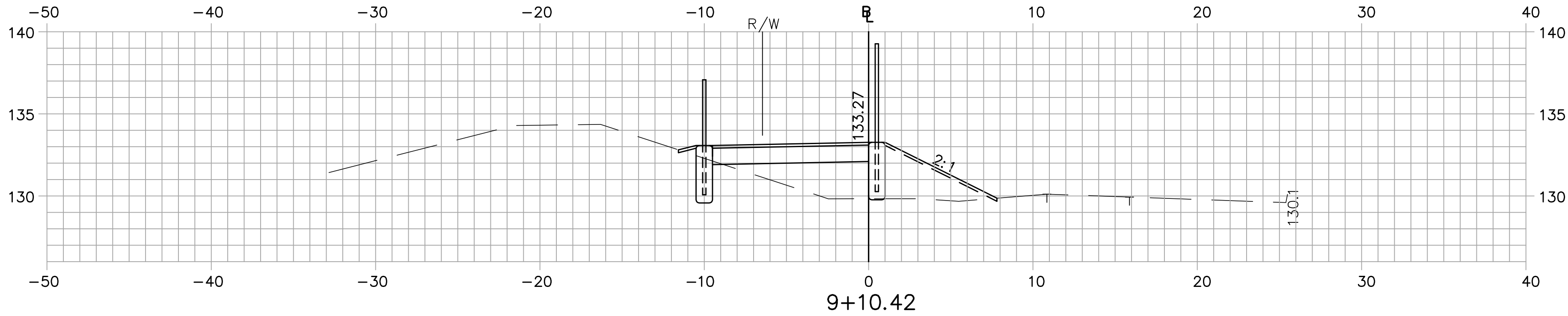
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STA. 10+00.00, 10.5' LT. TO STA. 14+45.00, 10.5' LT.
INSTALL STONE DRAIN WITH
445' X 6" UNDERDRAIN PIPE PERFORATIONS UP



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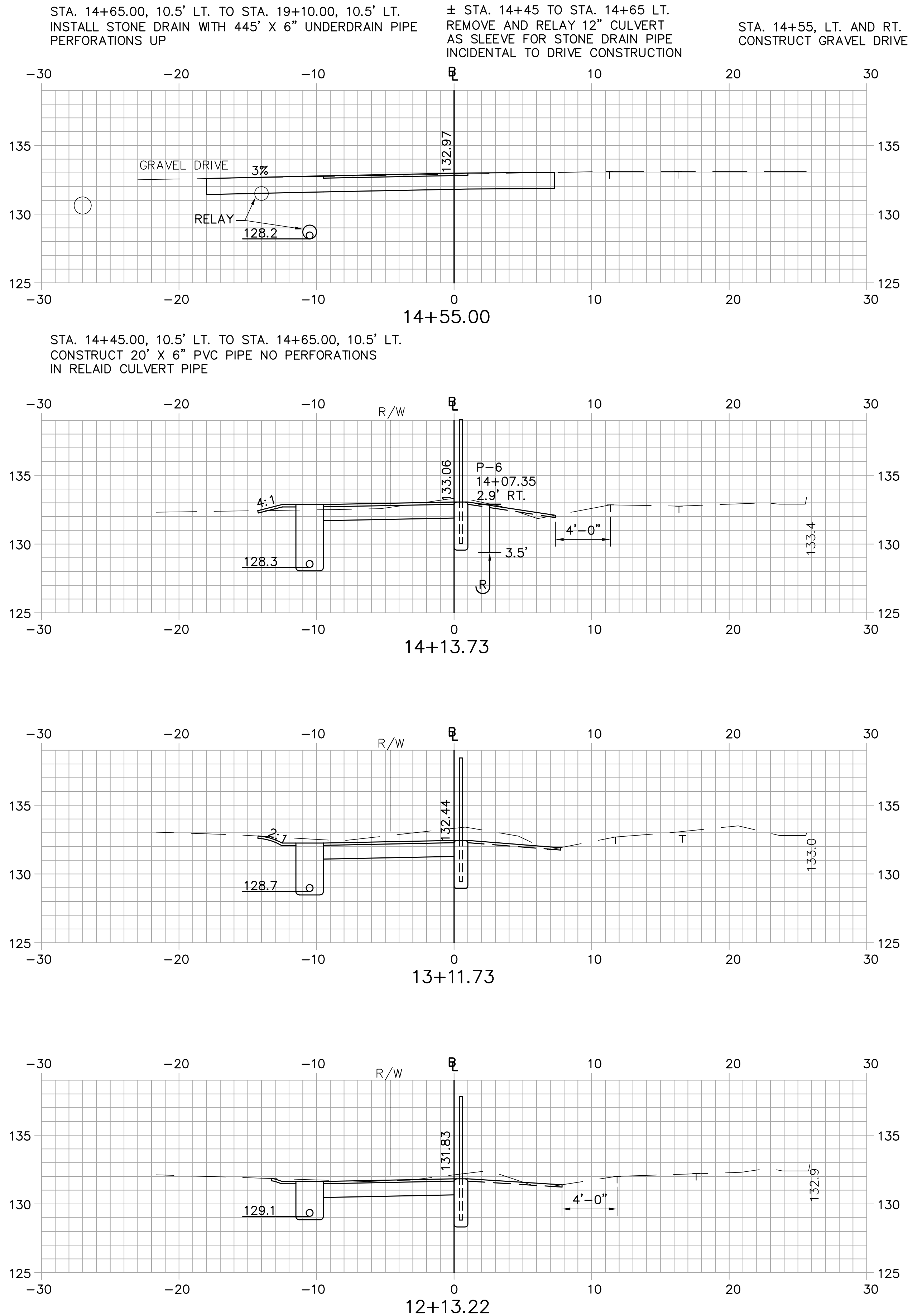
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OF 54

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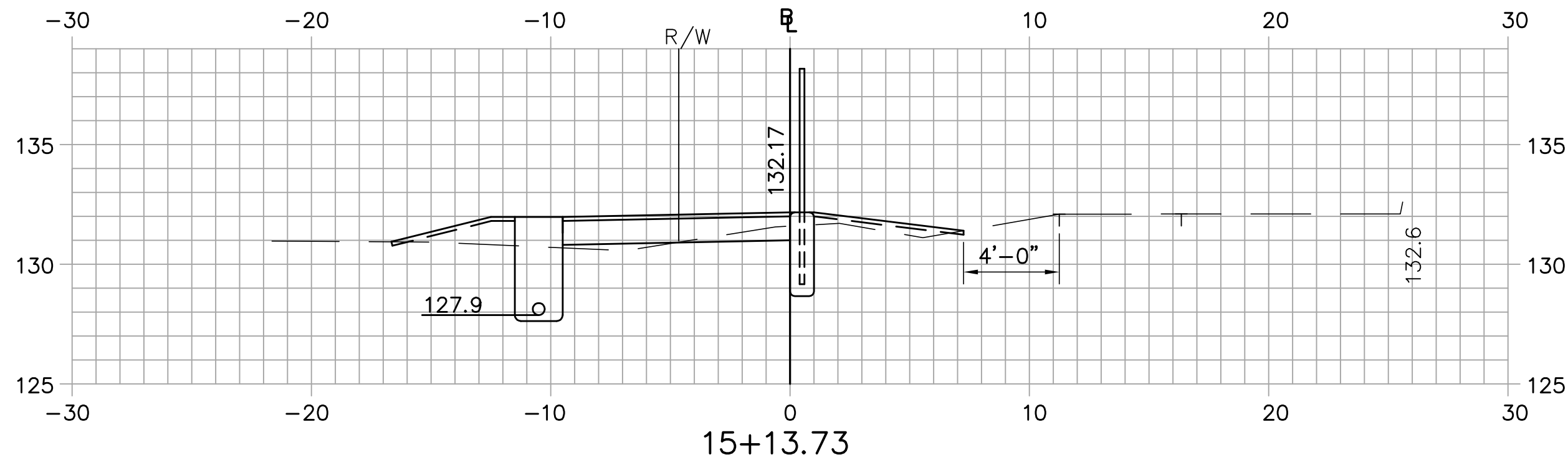
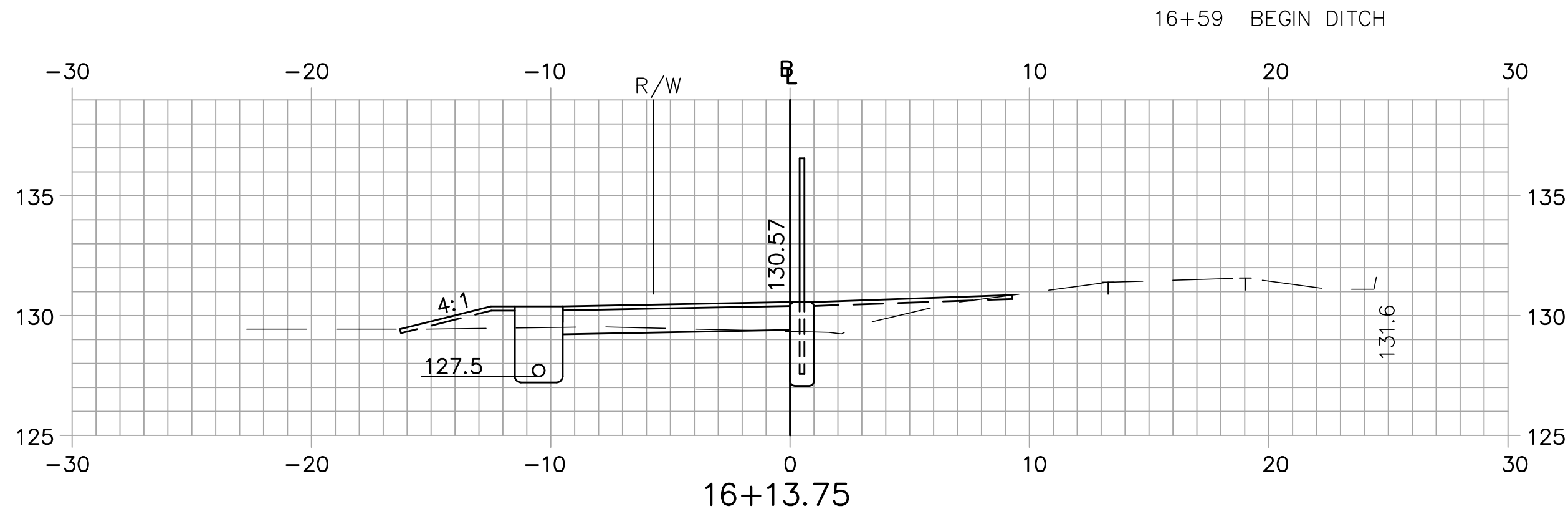
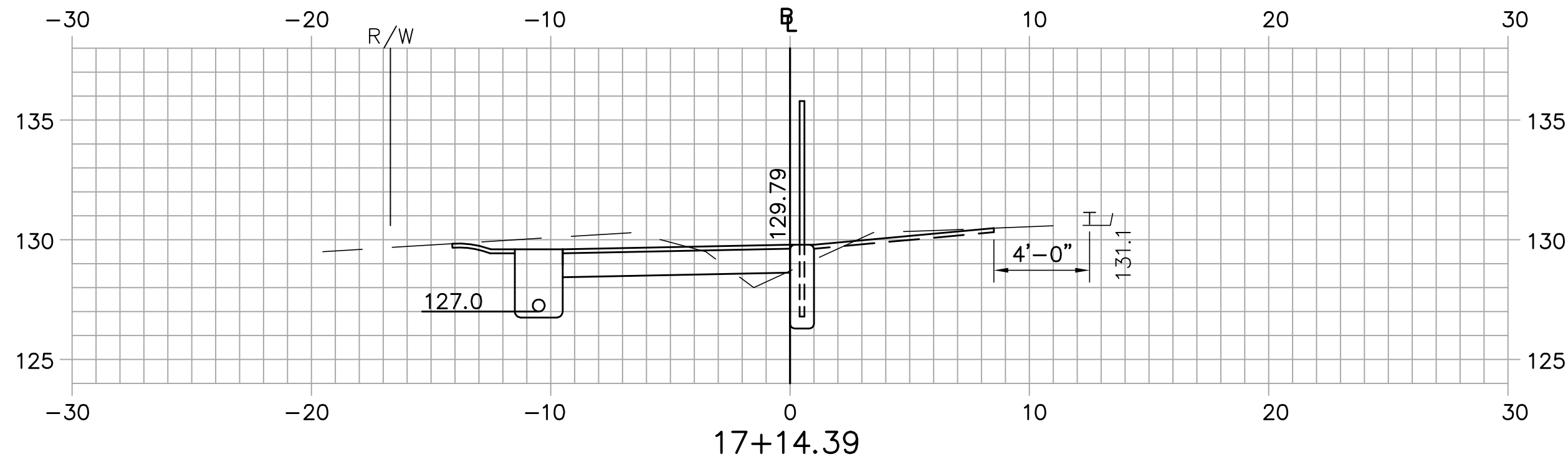
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ELLSWORTH
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CROSS SECTIONS

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OF 54

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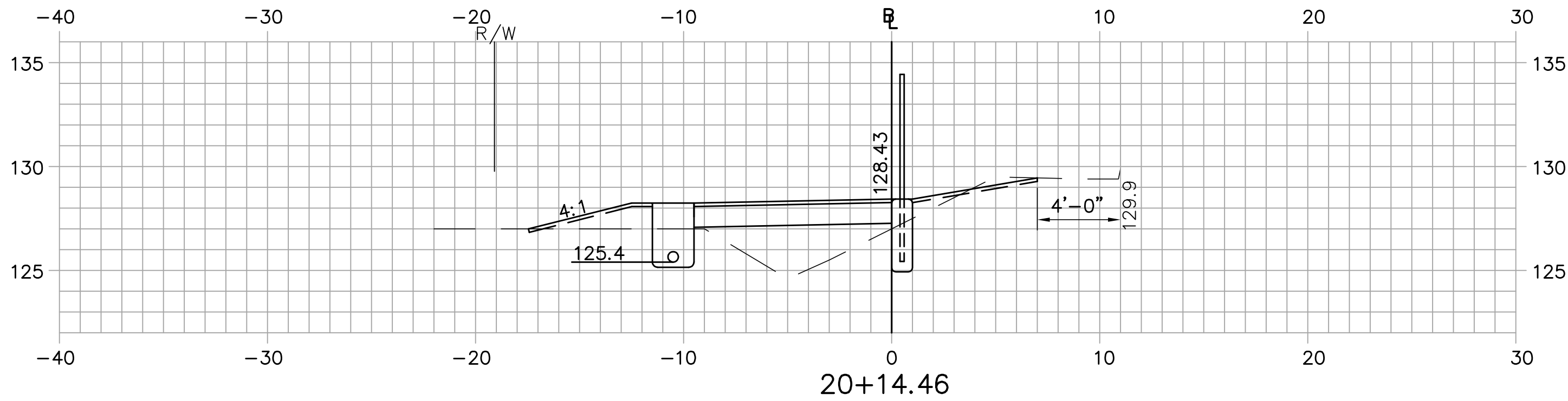
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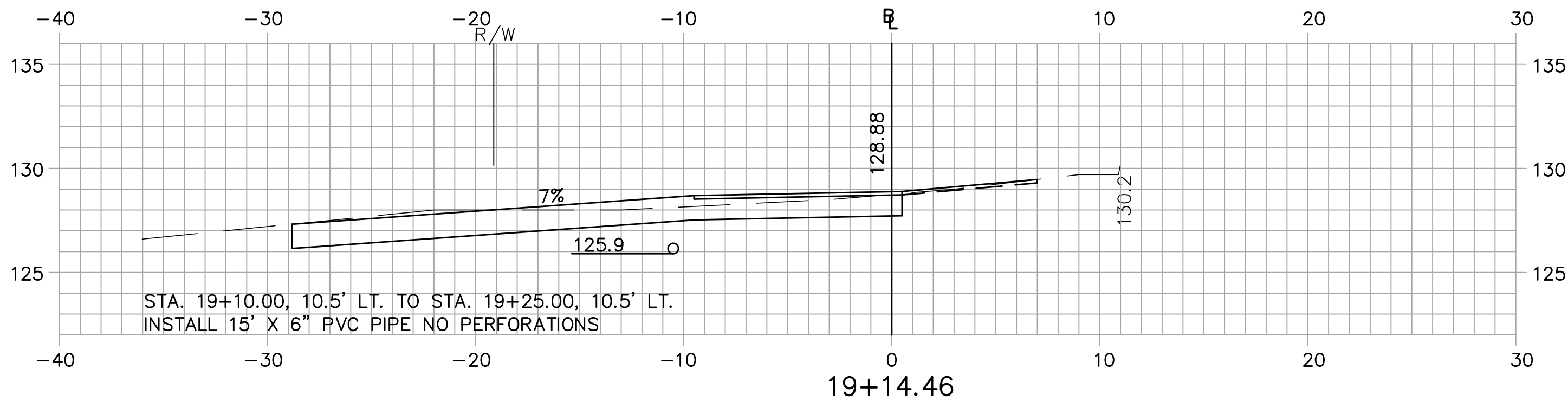


STA. 19+25.00, 10.5' LT. TO STA. 21+00.00, 10.5' LT.
INSTALL STONE DRAIN WITH
175' X 6" PVC PIPE PERFORATIONS UP

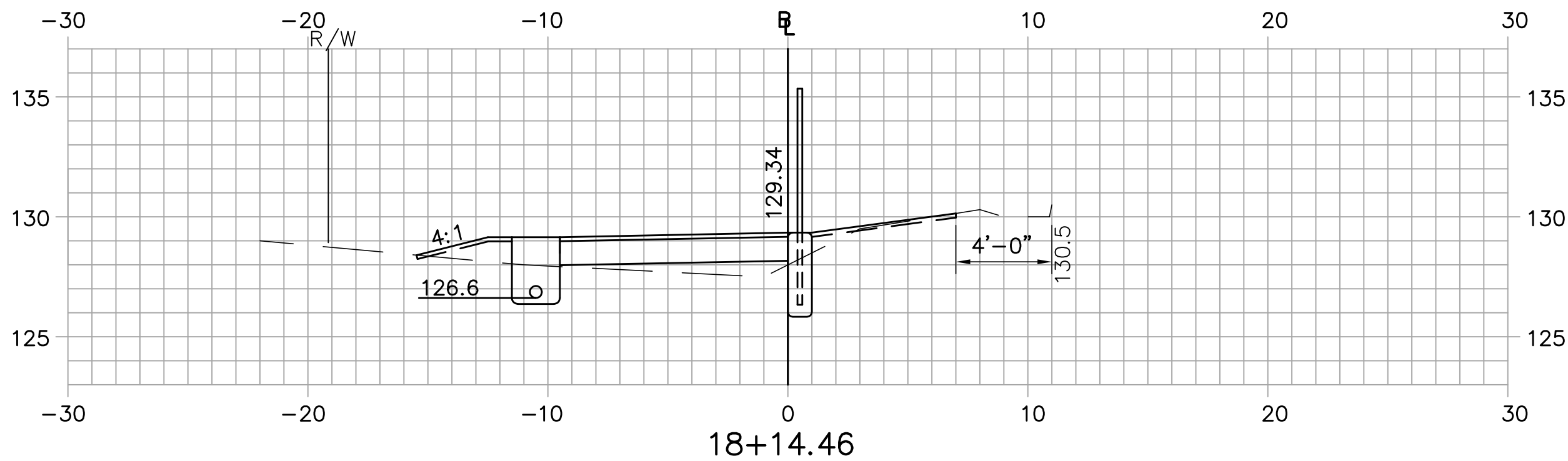
STA. 19+13.38, 28.8' LT. TO STA. 19+18.31, 9.5' LT.
CONSTRUCT FIELD ENTRANCE (GRAVEL)

19+23 FIELD ENTRANCE
WITH 15" PVC CULVERT

STA. 19+20.79, 1.0' RT. TO STA. 19+23.07, 11.0' RT.
CONSTRUCT FIELD ENTRANCE (GRAVEL)



STA. 19+10.00, 10.5' LT. TO STA. 19+25.00, 10.5' LT.
INSTALL 15' X 6" PVC PIPE NO PERFORATIONS



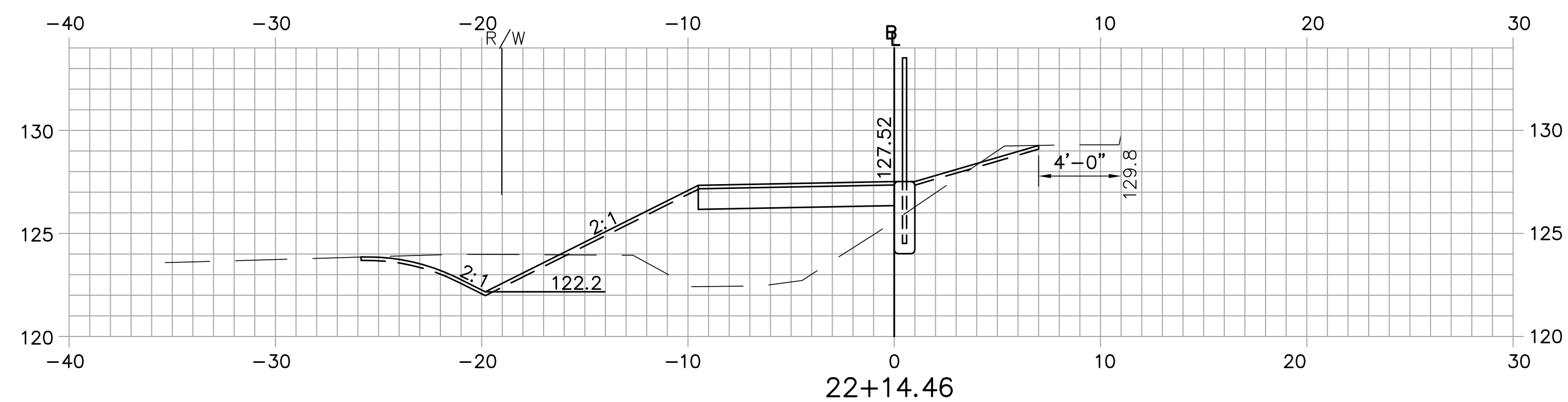
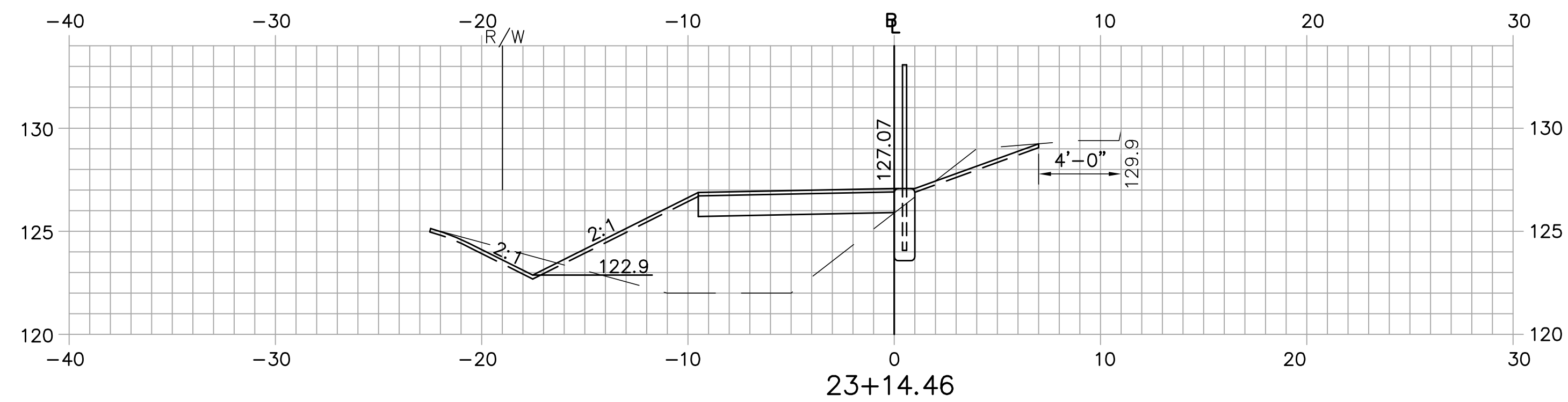
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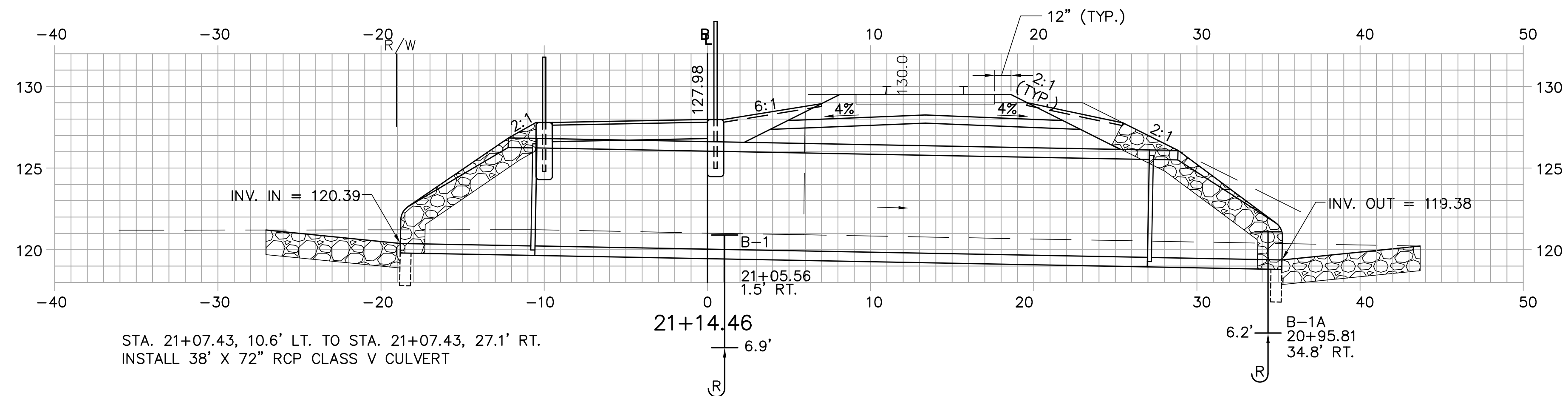
DATE	BY	PROJ. MANAGER	JOEL KITREDGE
08/10	EAP	DESIGNED	
08/10	EAP	DRAWN	
08/10	BWA	CHECKED	
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		REVISIONS 5	
		FIELD CHANGES	

ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL CROSS SECTIONS

SHEET NUMBER
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STA. 21+14 TO STA. 28+40 LT.
CONSTRUCT DITCH WITH TEMPORARY
EROSION CONTROL BLANKET



STA. 21+07.43, 10.6' LT. TO STA. 21+07.43, 27.1' RT.
INSTALL 38' X 72" RCP CLASS V CULVERT

	PROJ. MANAGER, JOEL KITTREDGE	BY	DATE
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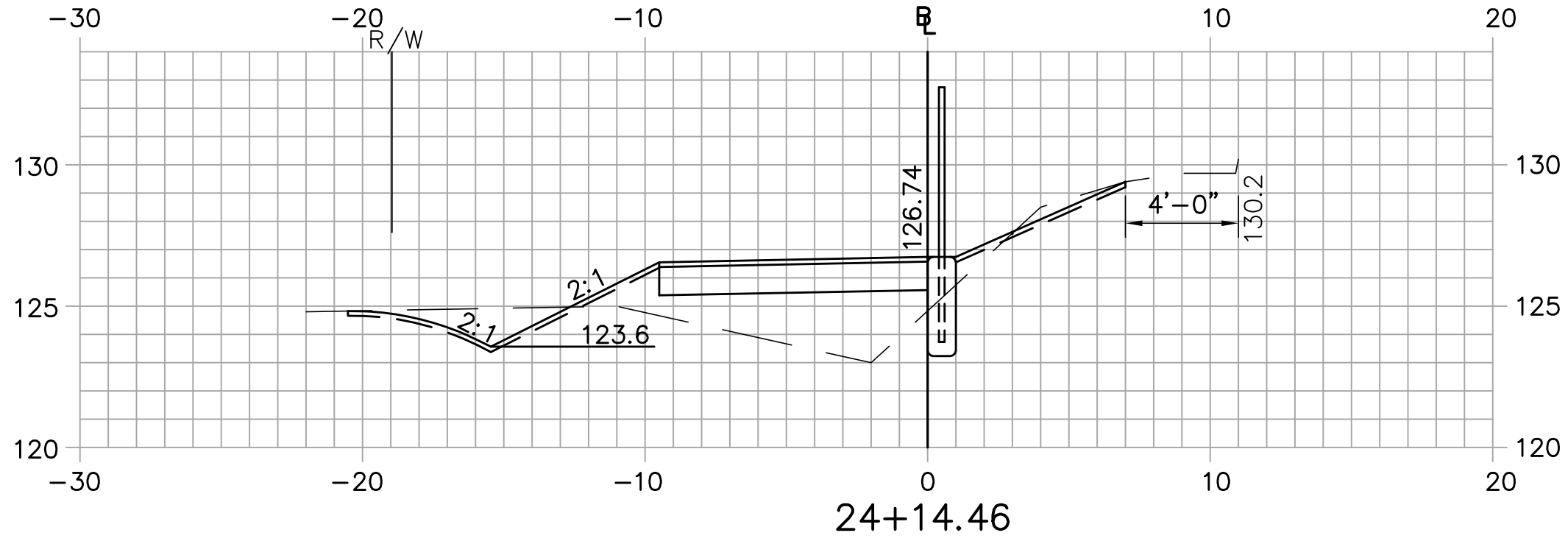
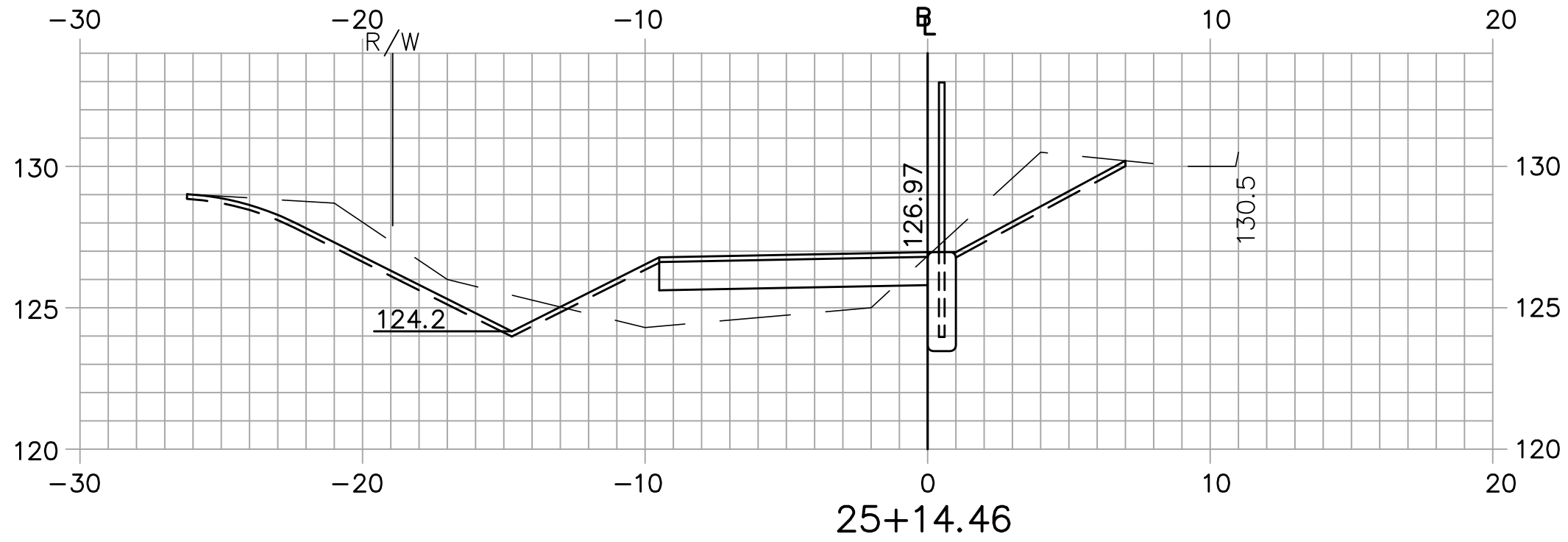
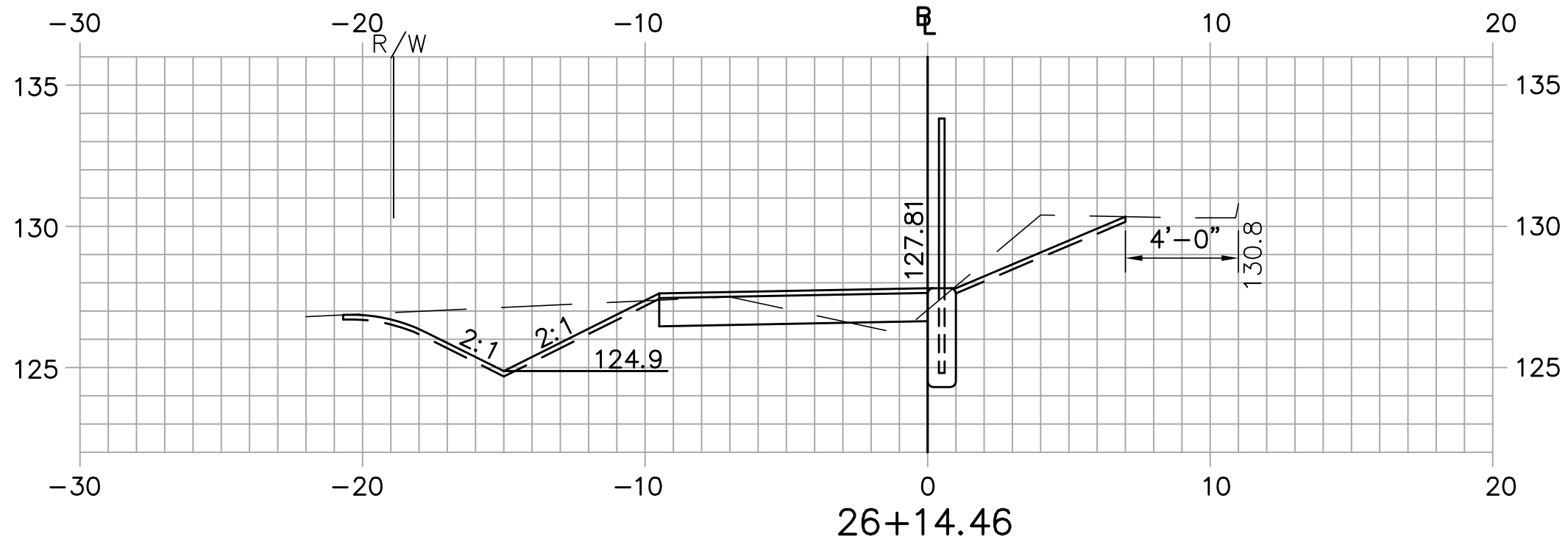
**ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS**

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26

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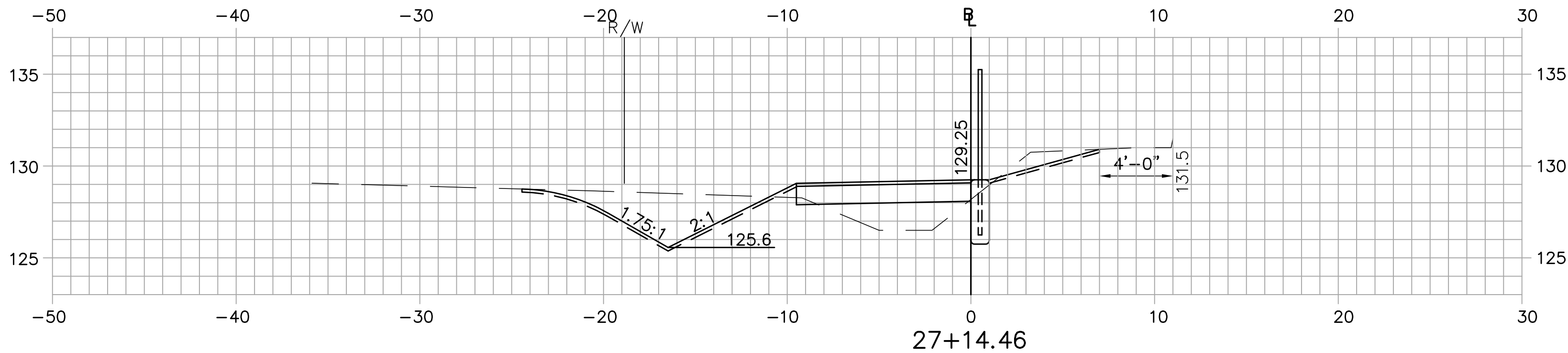
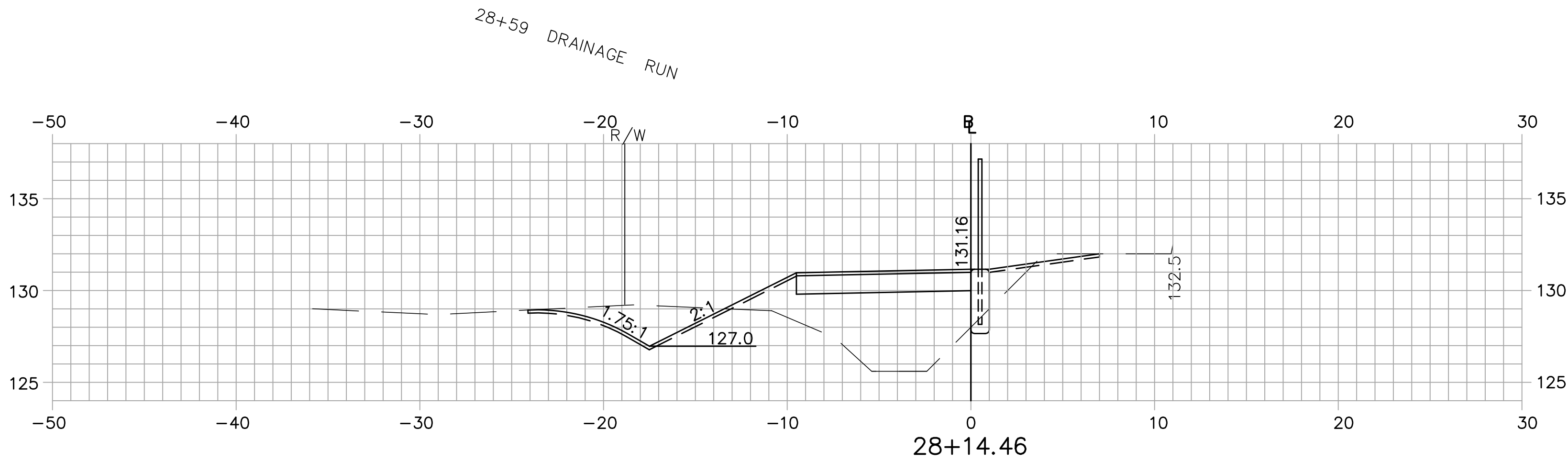
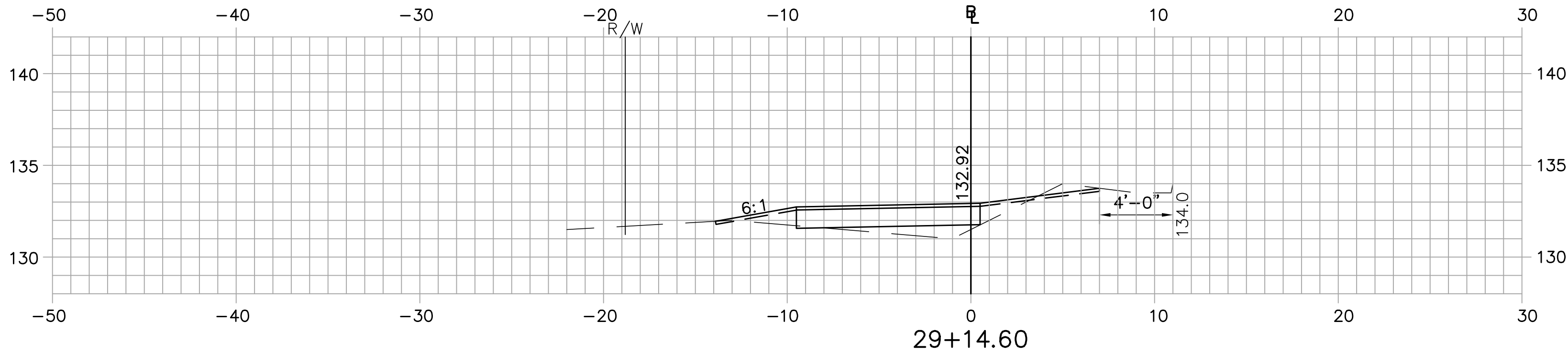
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ELLSWORTH
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CROSS SECTIONS

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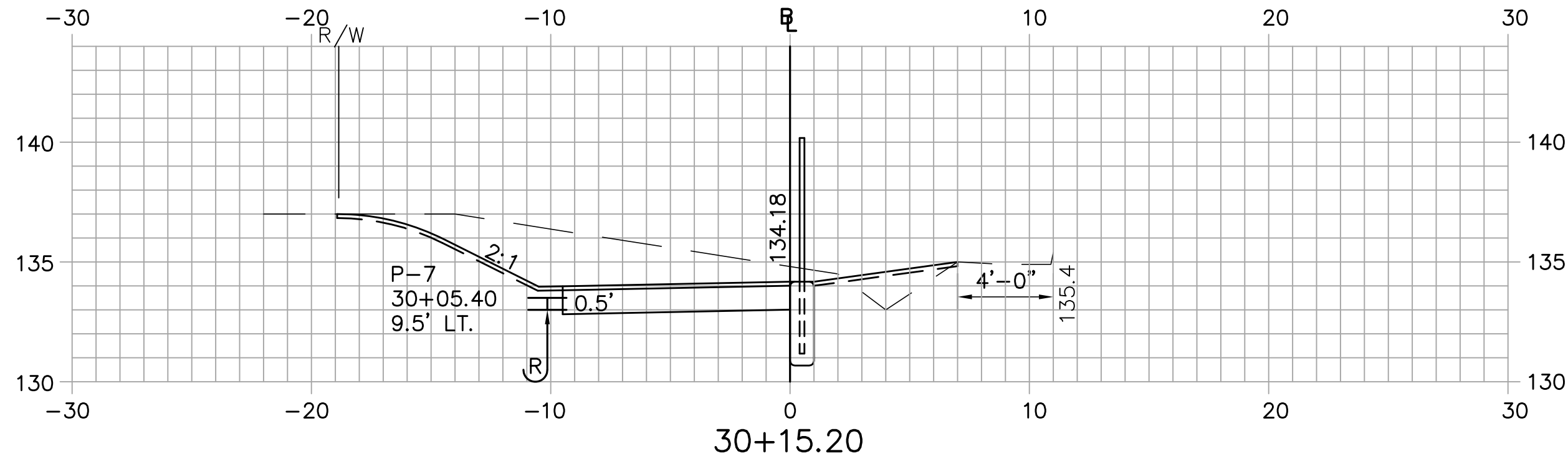
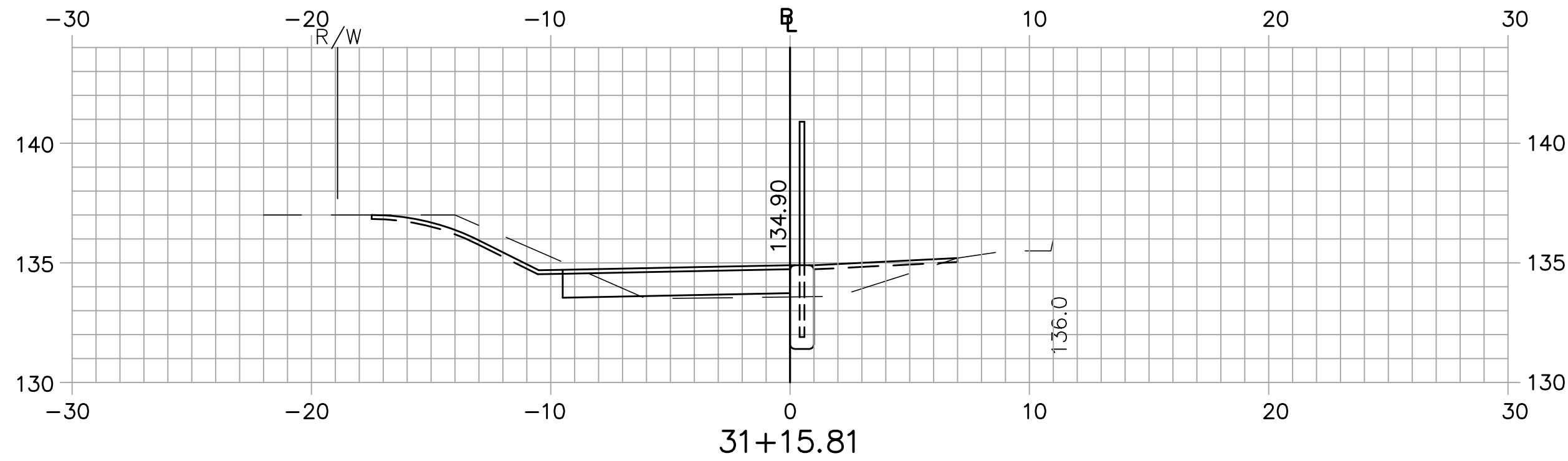
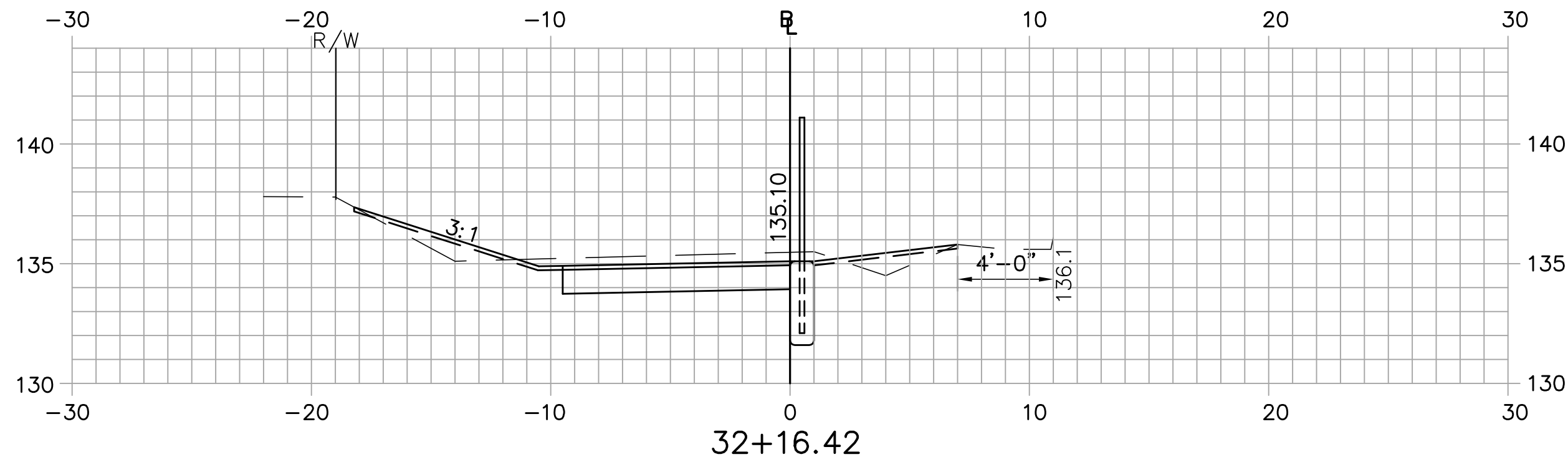


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ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS

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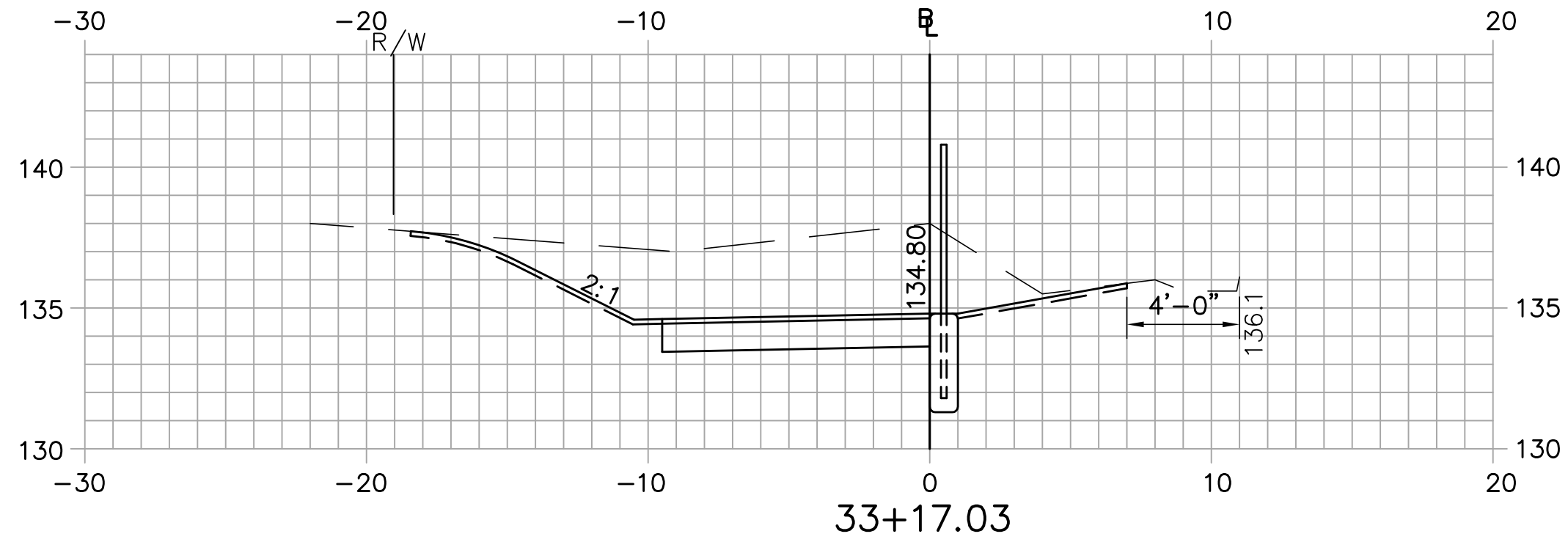
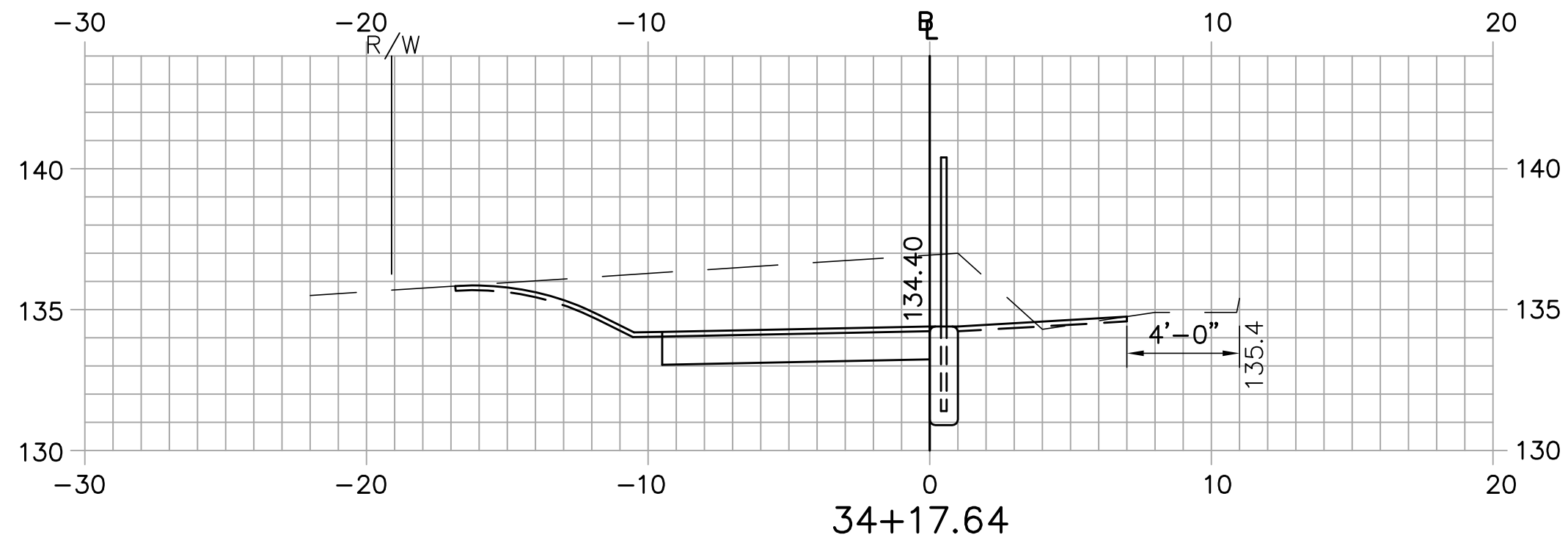
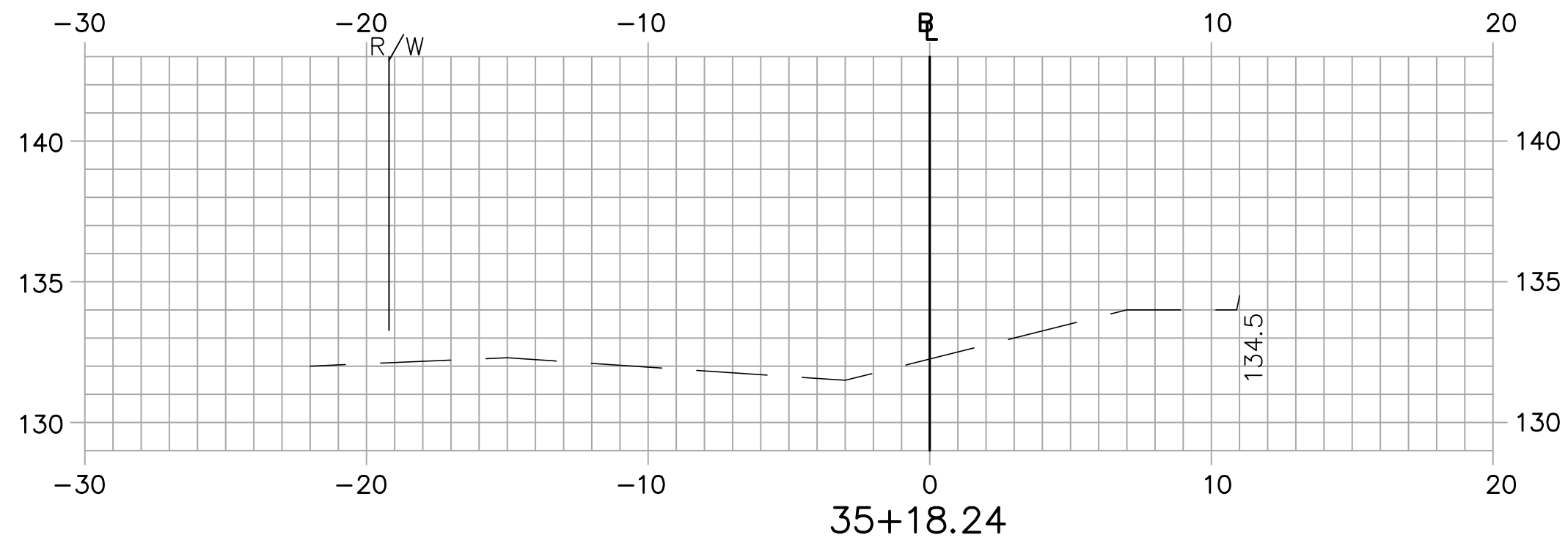
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ELLSWORTH
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CROSS SECTIONS

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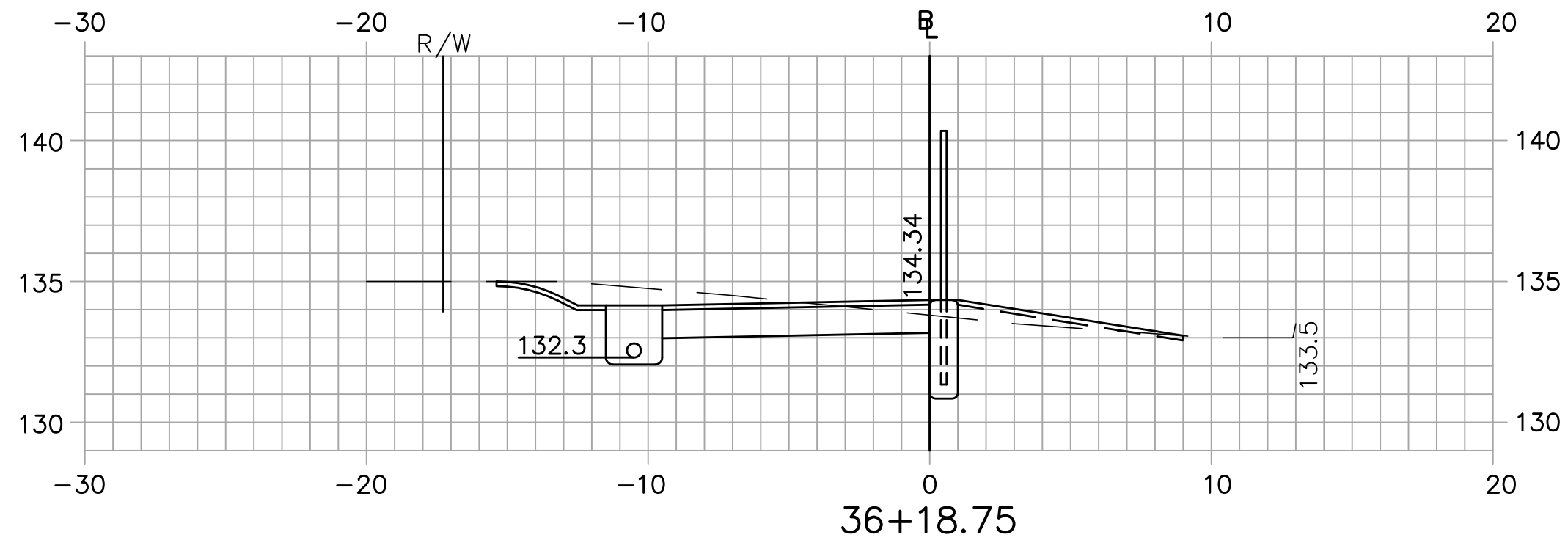
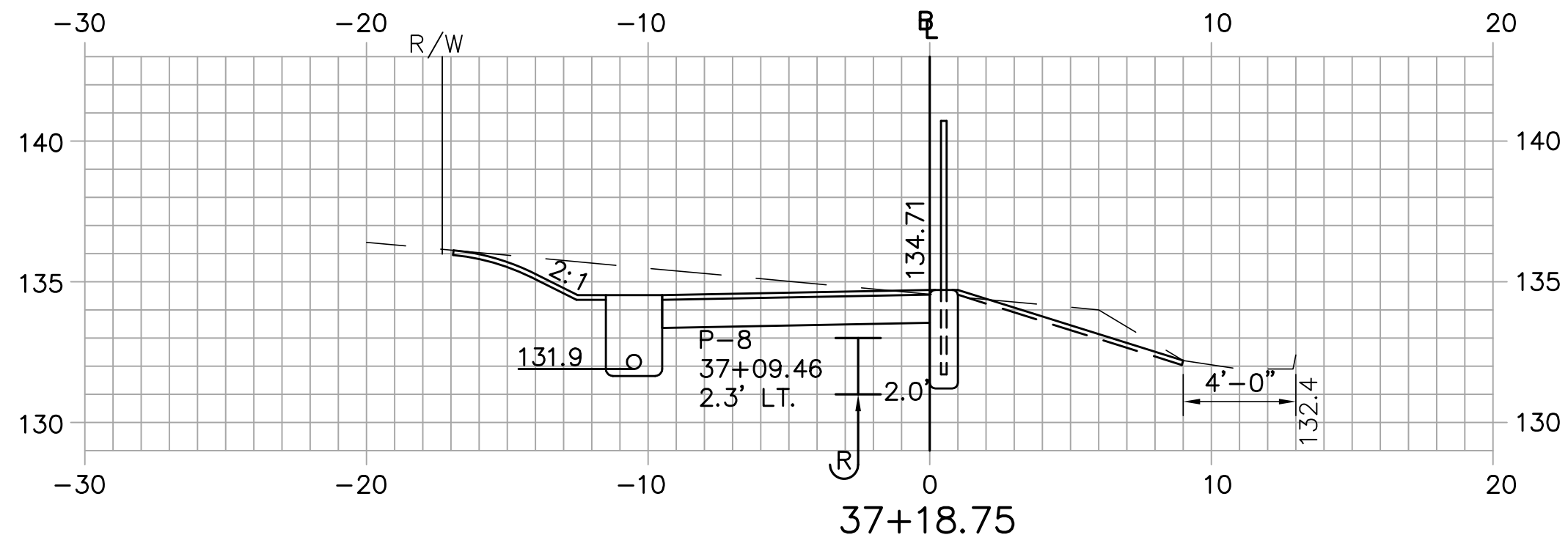
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BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS

SHEET NUMBER
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OF 54

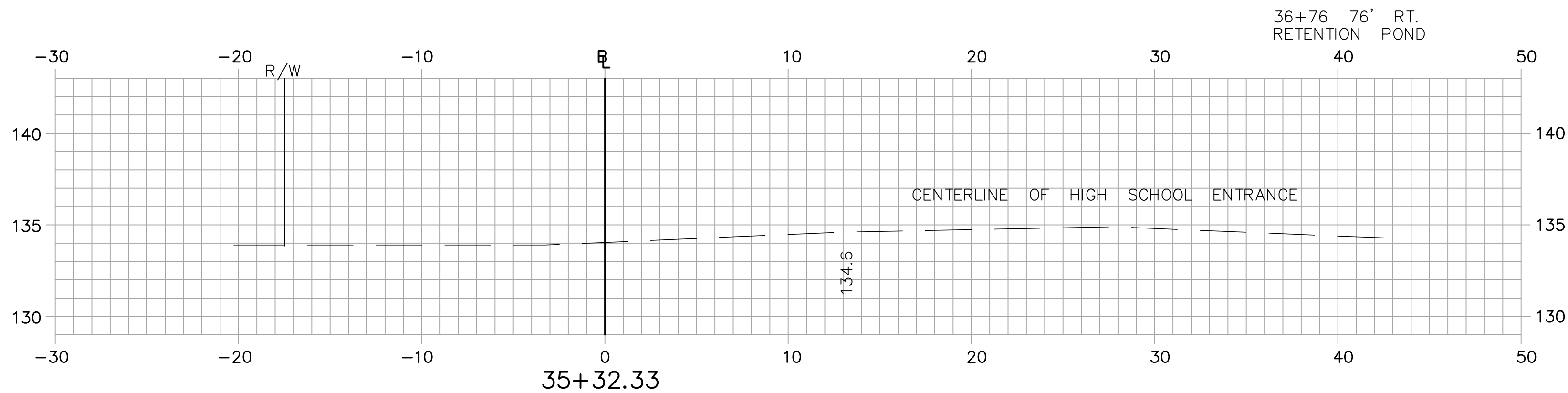
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STA. 35+55.00, 10.5' LT. TO STA. 38+25.00, 10.5' LT.
INSTALL STONE DRAIN WITH
275' X 6" UNDERDRAIN PIPE PERFORATIONS UP
(PIPE EXTENDS 5' BEYOND STONE DRAIN AT STA. 38+25.00)



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ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS

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31

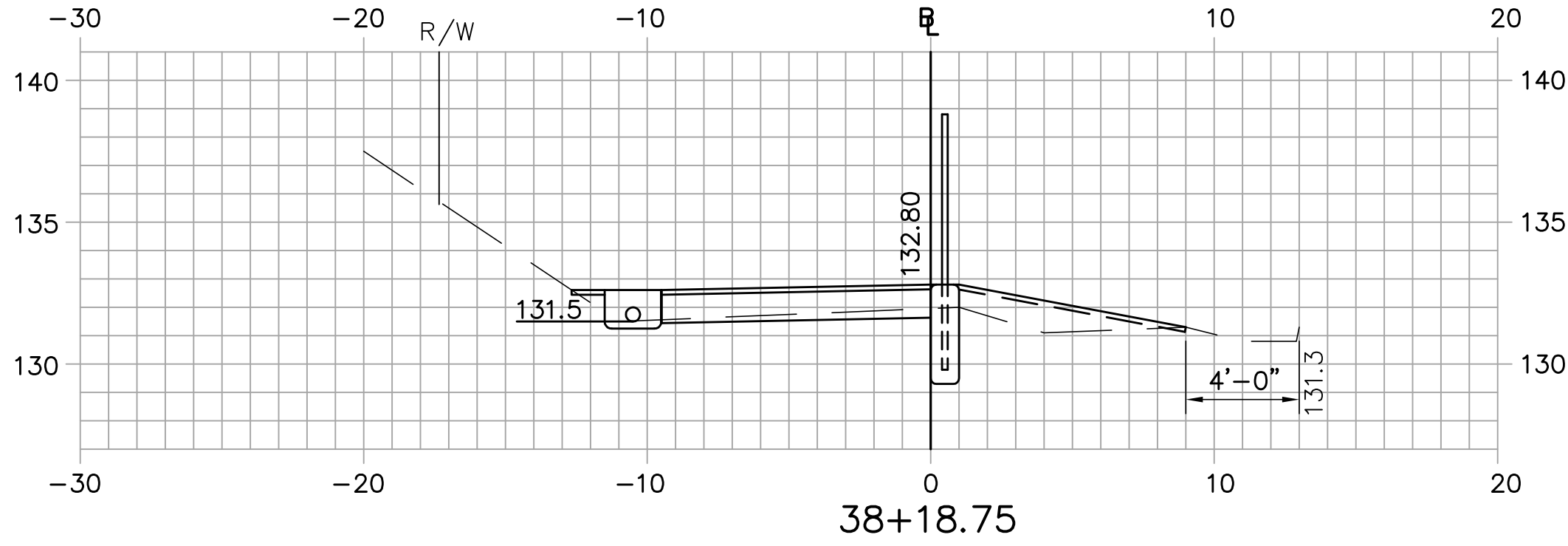
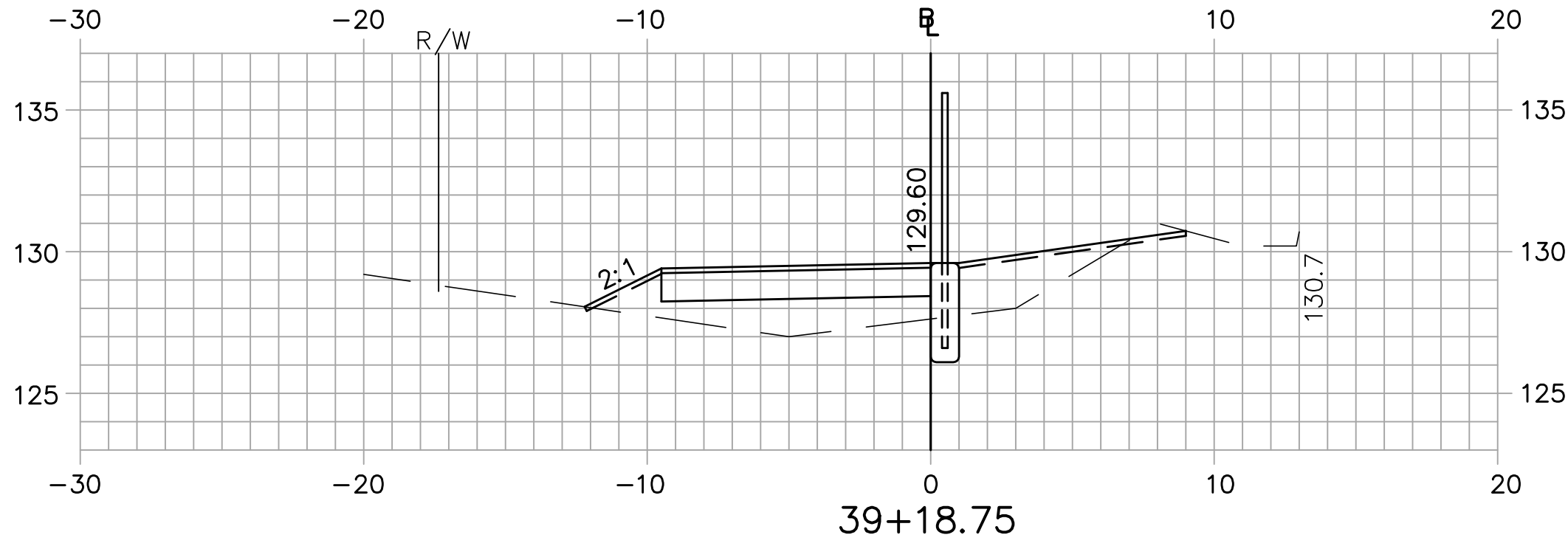
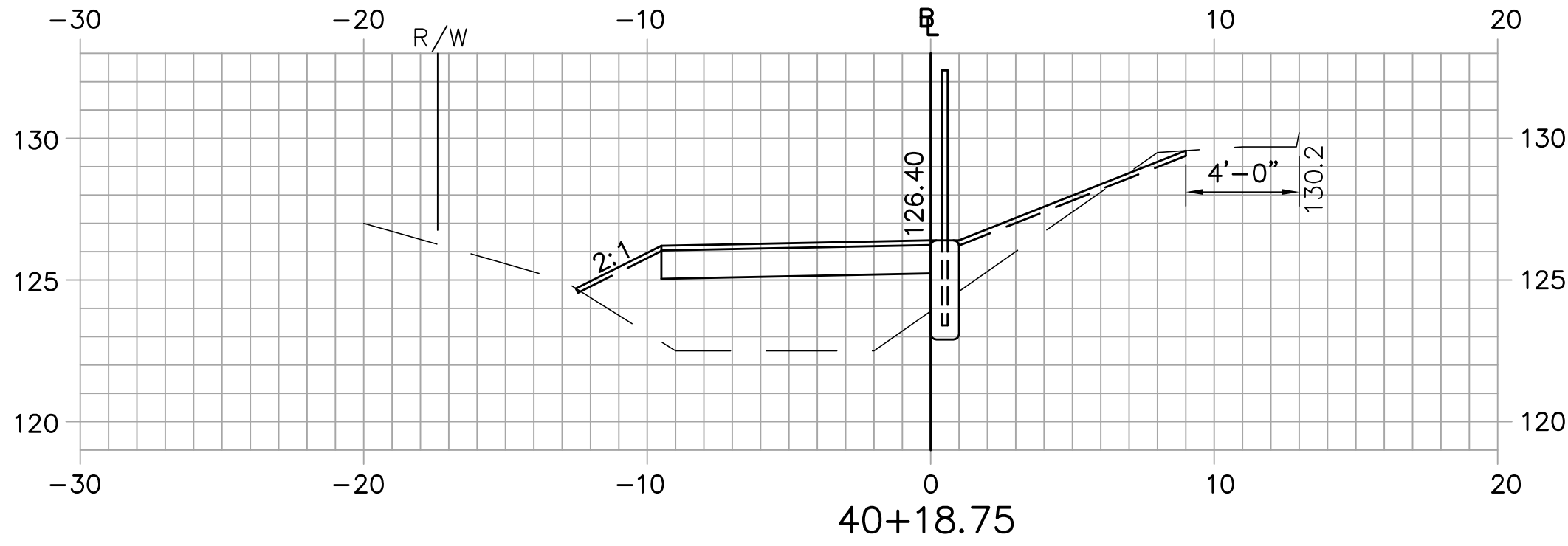
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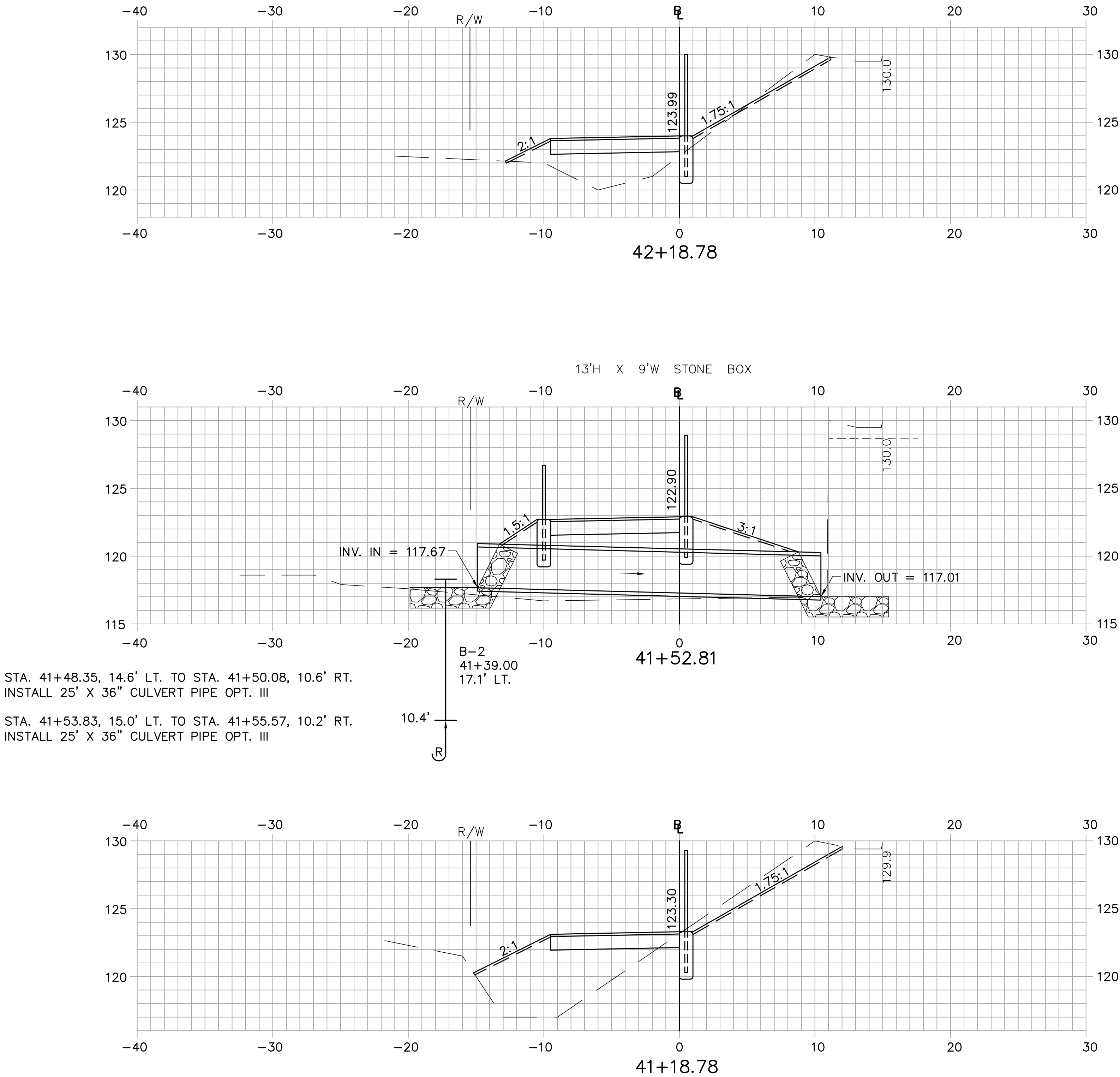
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ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL CROSS SECTIONS

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33

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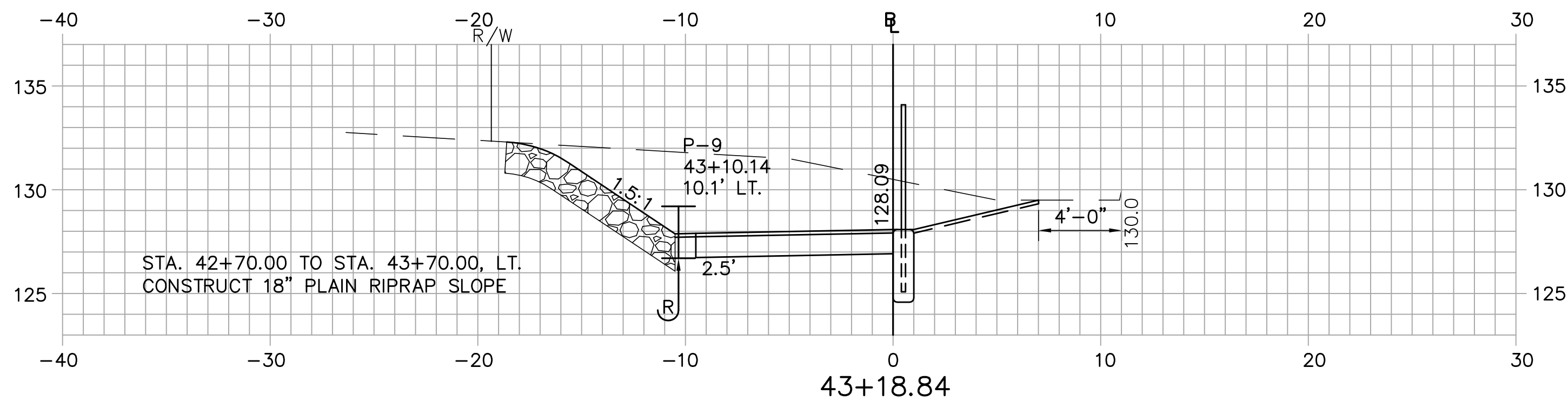
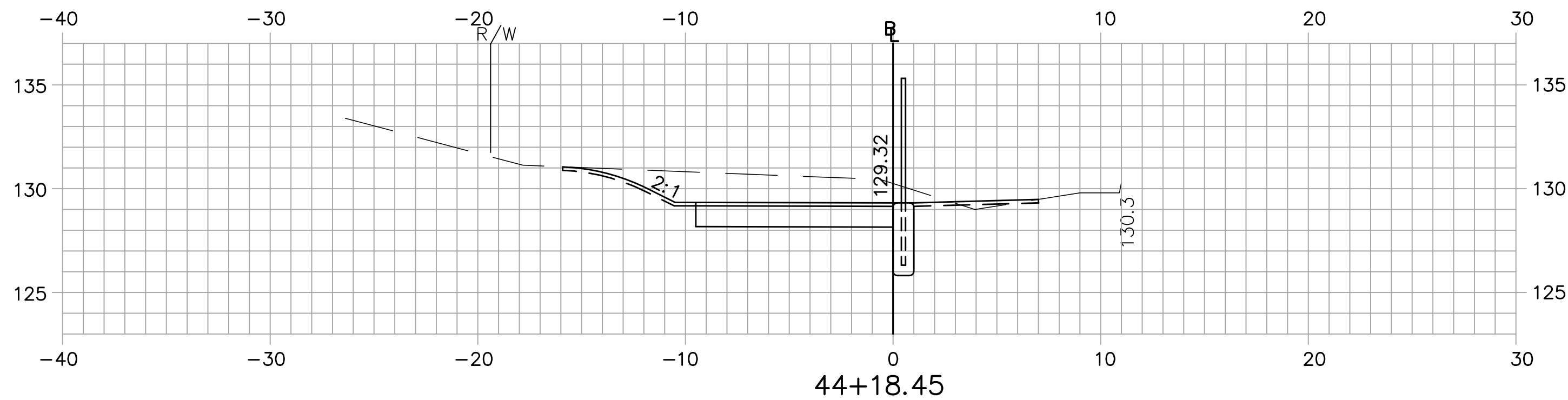
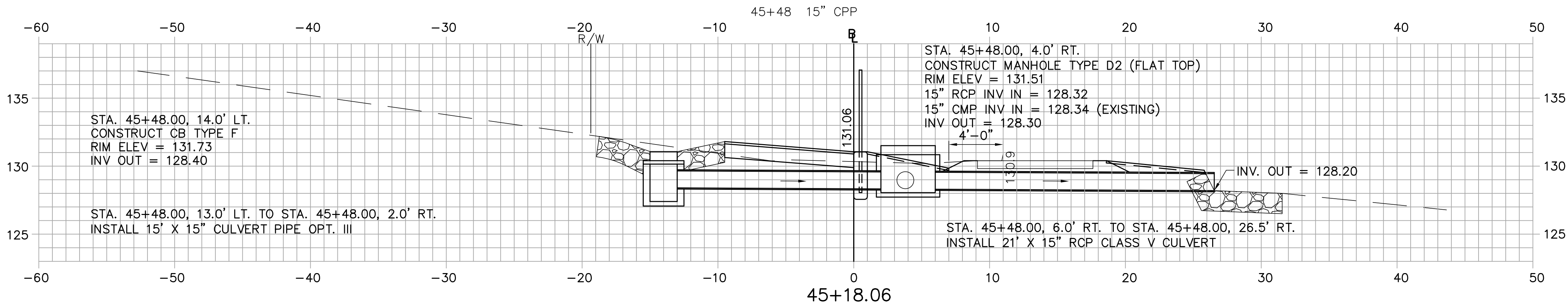
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JOEL KITREDGE

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ELLSWORTH

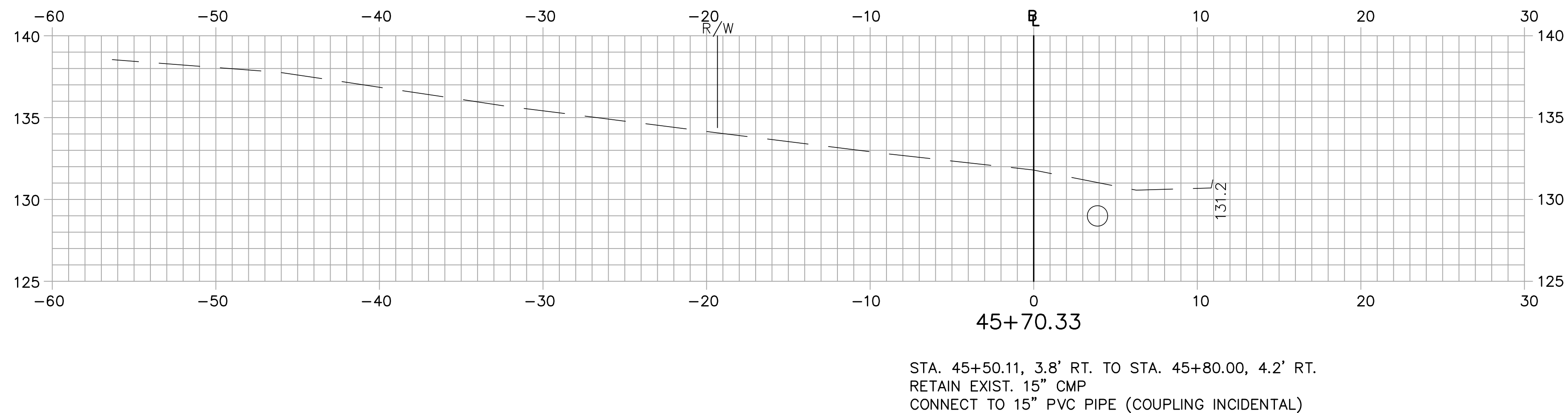
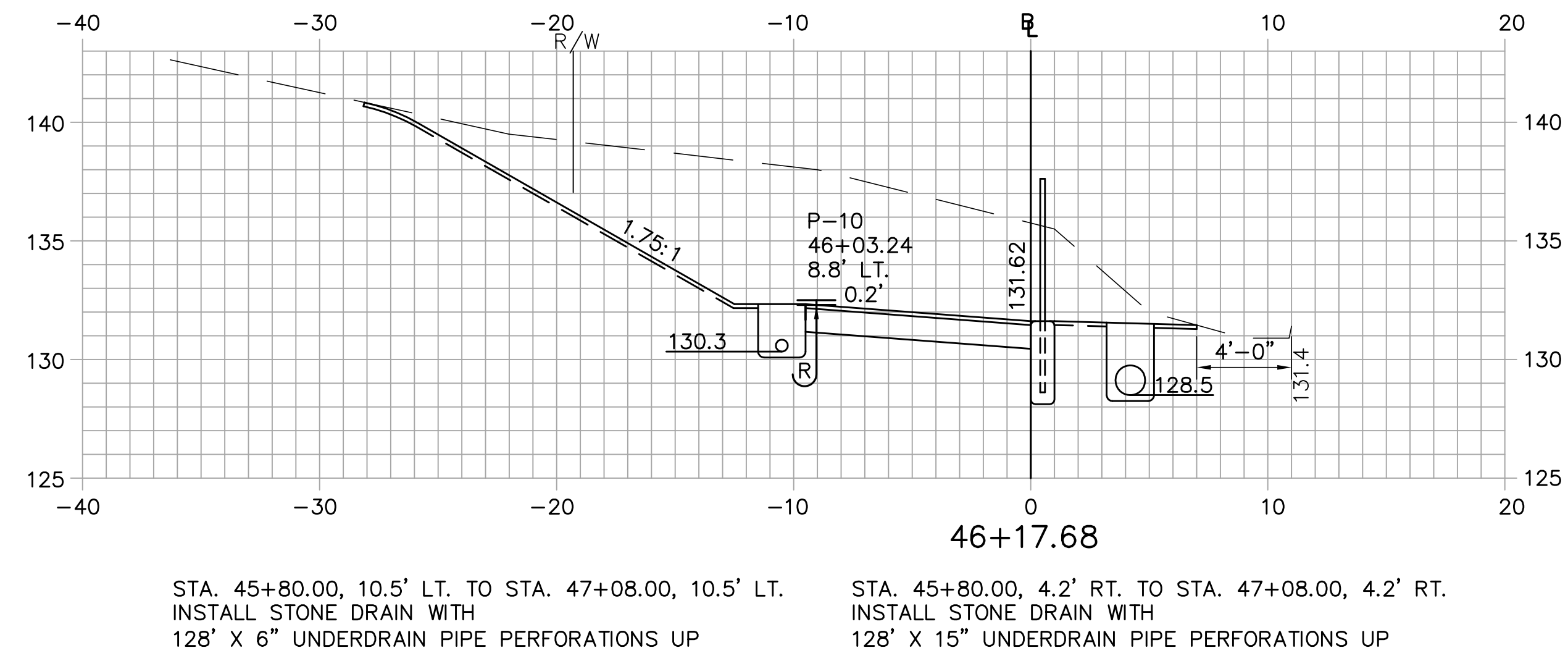
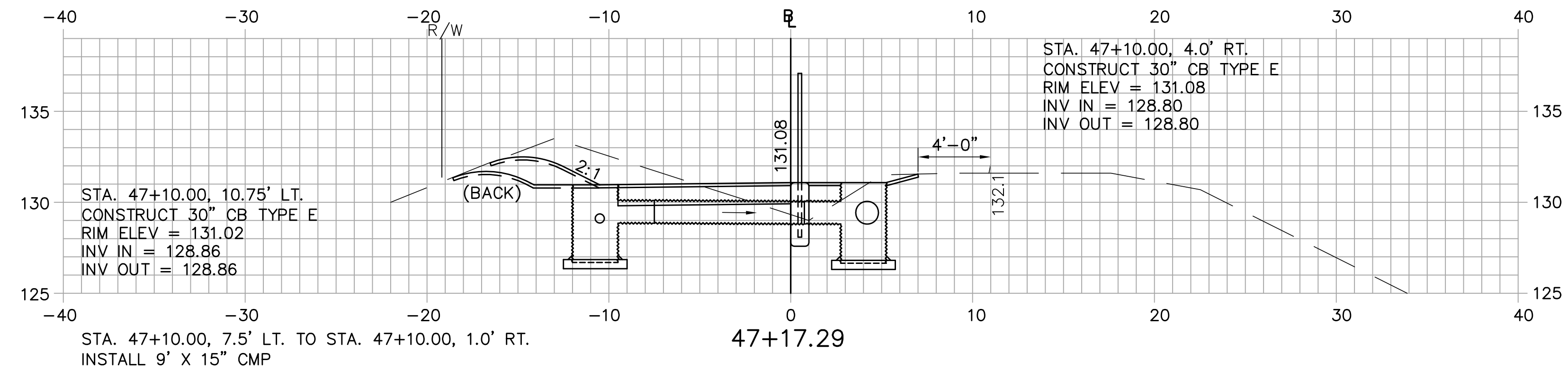
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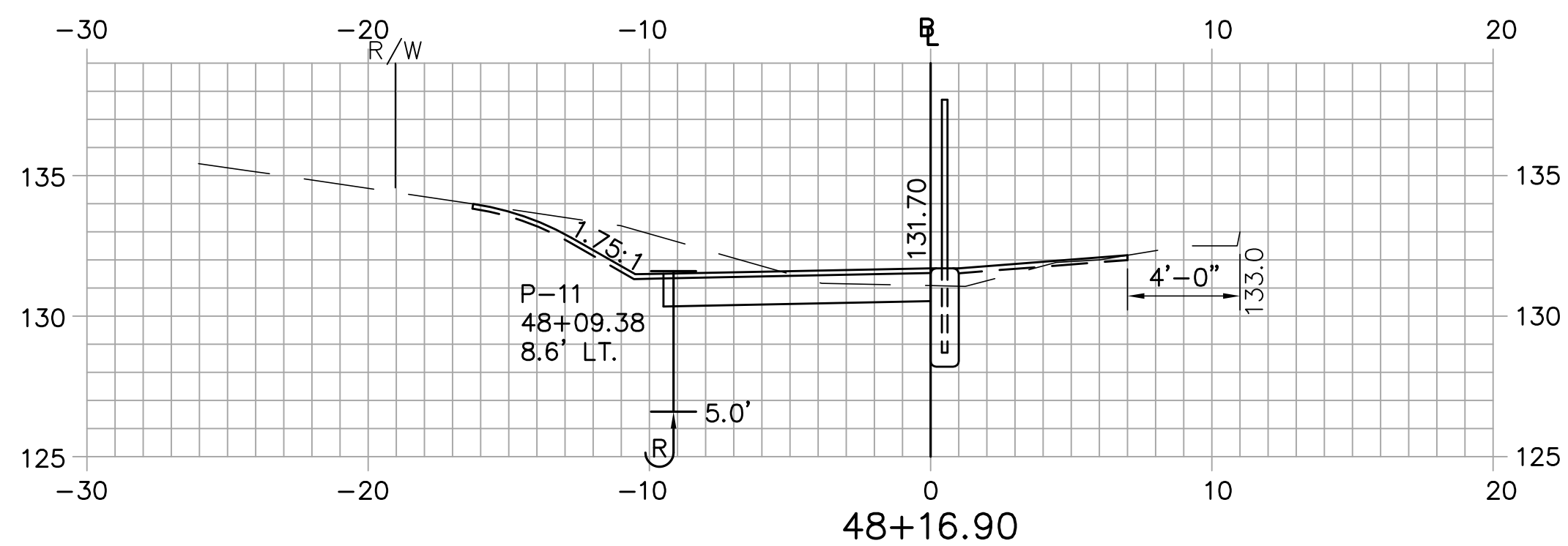
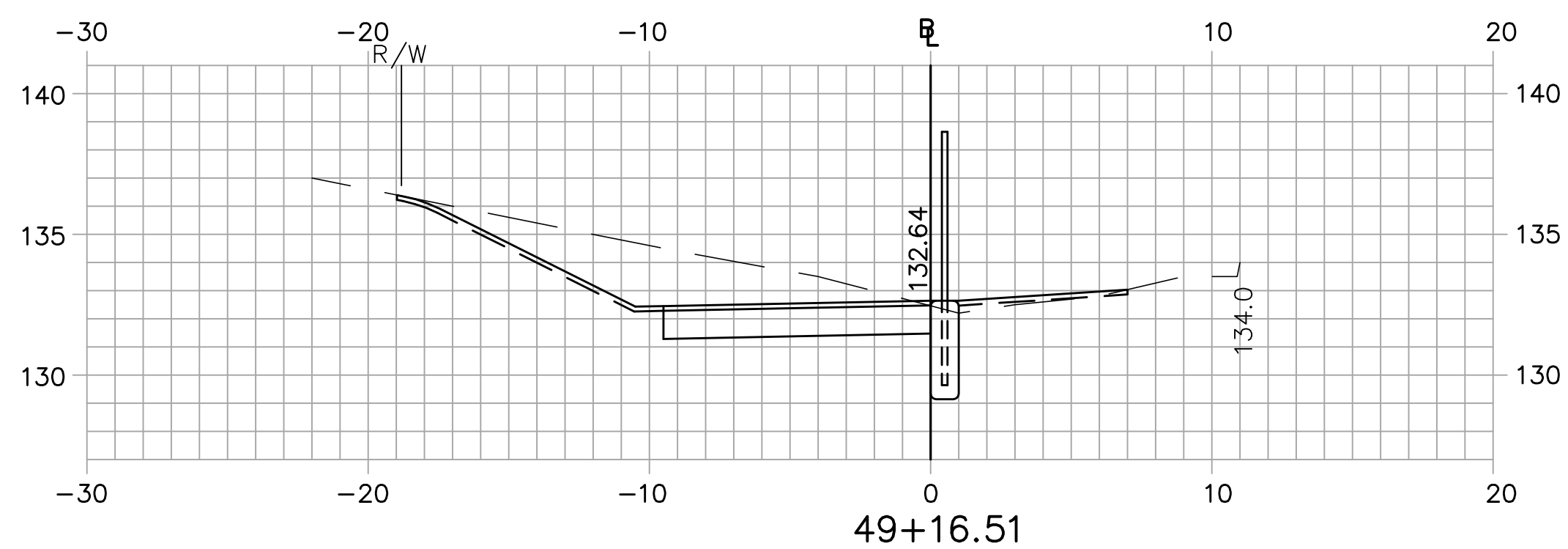
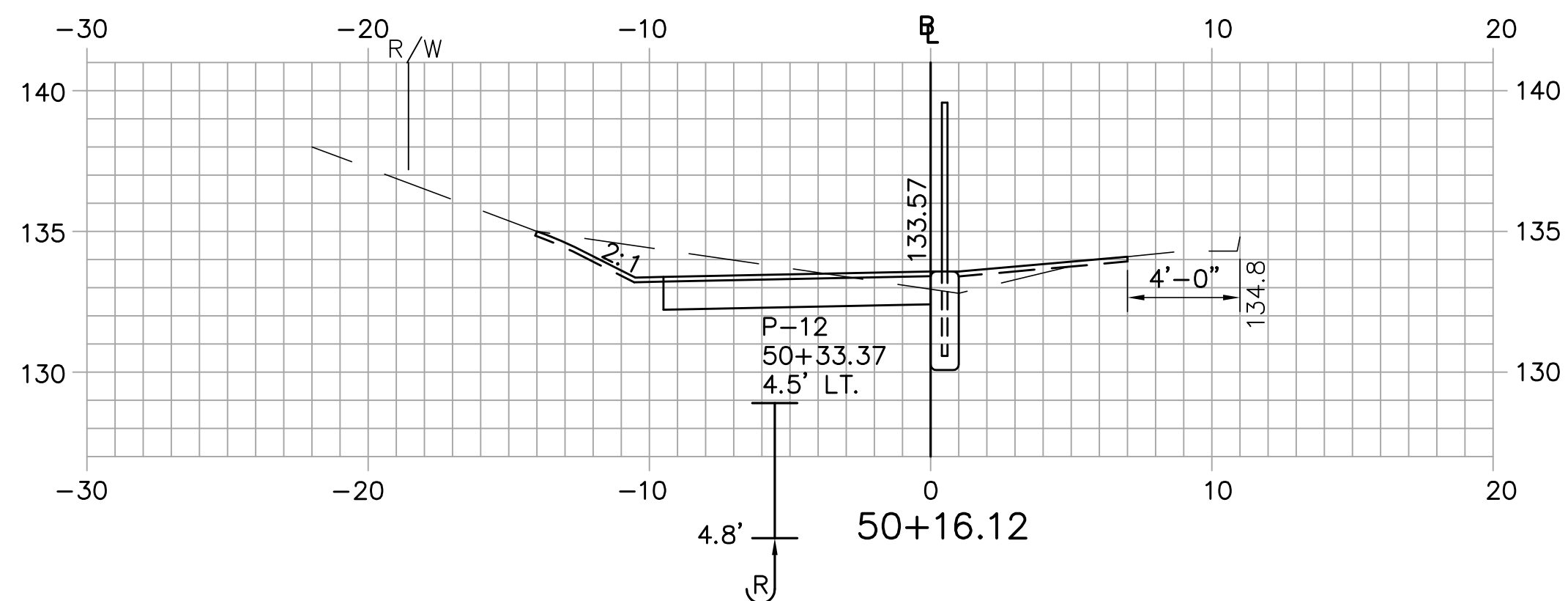
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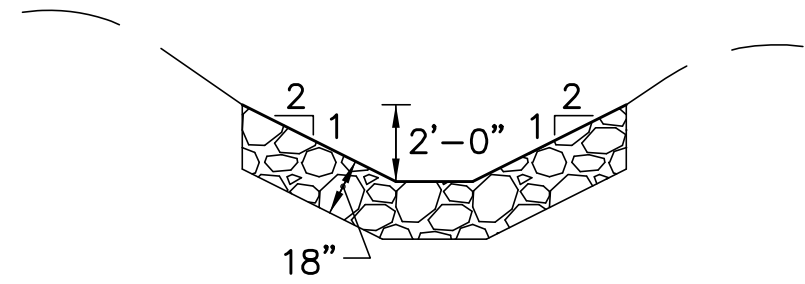




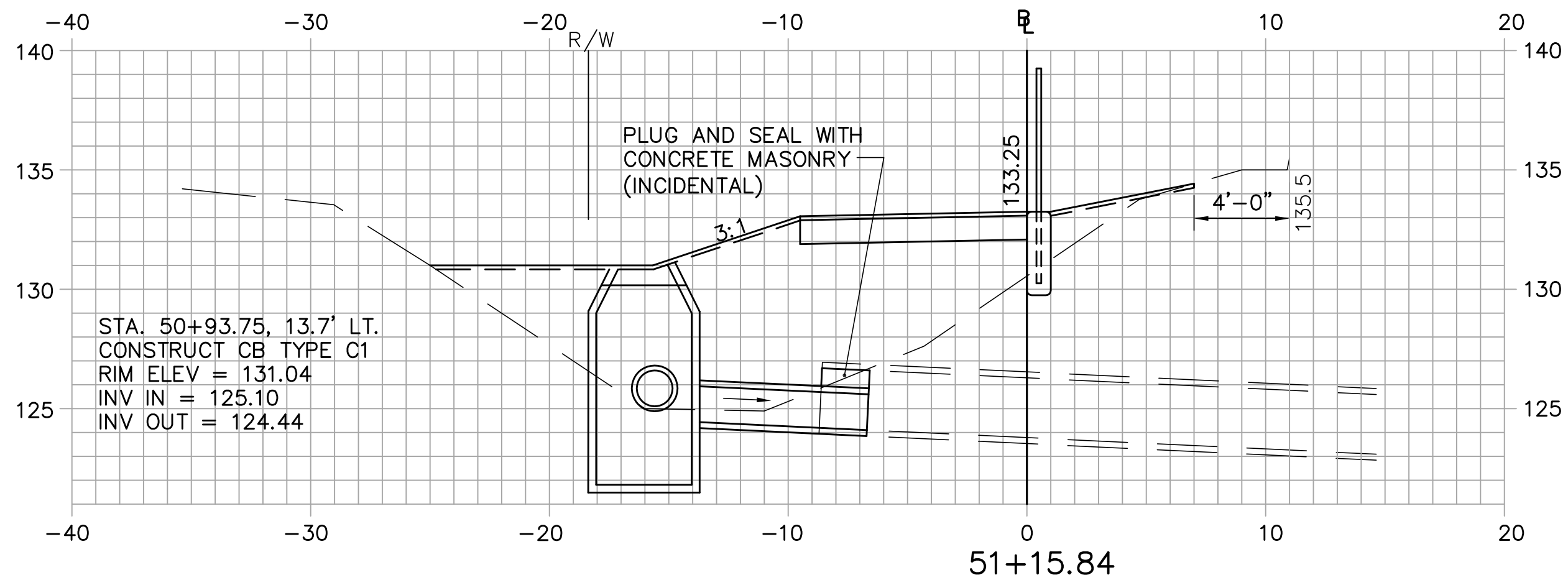
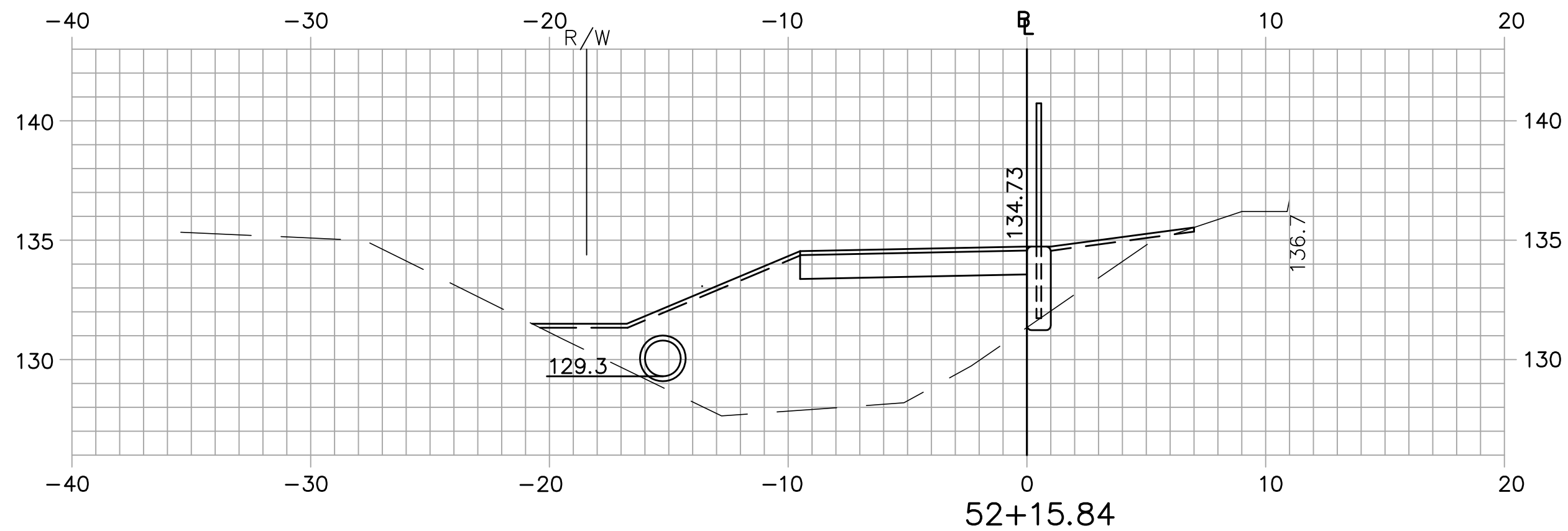
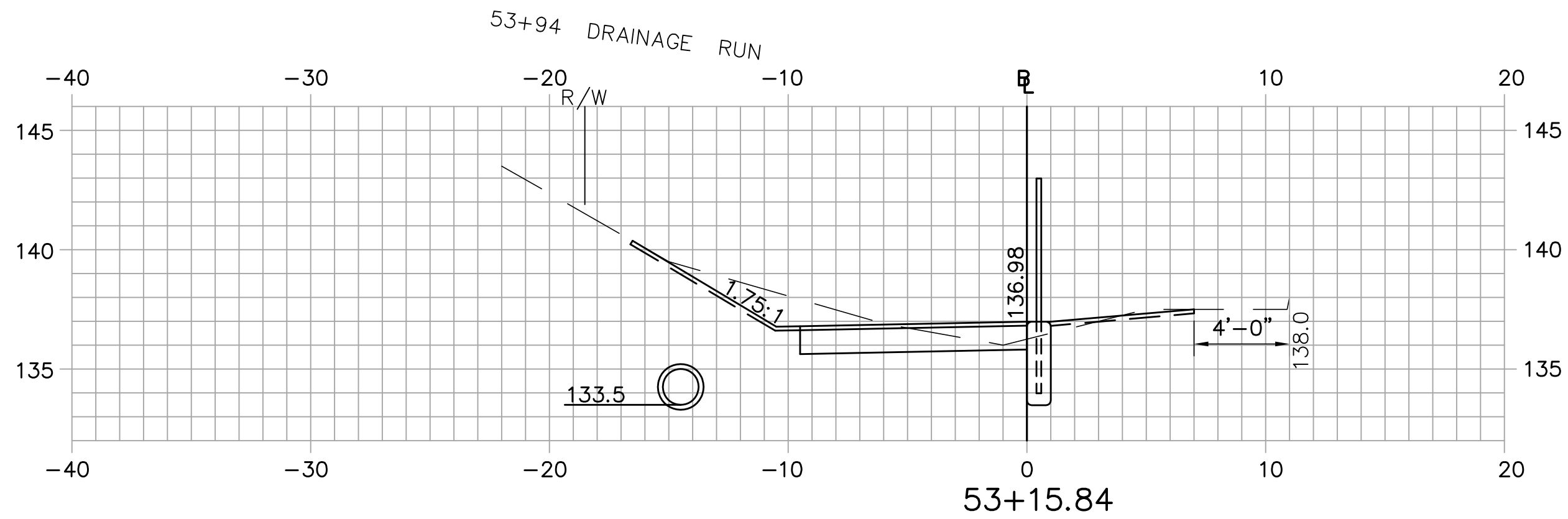
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**ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
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STA. 53+81.00' TO STA. 54+09.00, LT.
CONSTRUCT DITCH WITH STONE DITCH PROTECTION
CONNECT TO EXISTING DRAINAGE RUN



STA. 50+93.75, 12.4' LT. TO STA. 50+93.84, 6.4' LT.
INSTALL 7' X 18" CULVERT PIPE OPT. III

STA. 50+96.70, 16.0' LT. TO STA. 53+81.00, 14.4' LT.
INSTALL 284' X 18" CULVERT PIPE OPT. III

TETRA TECH RIZZO



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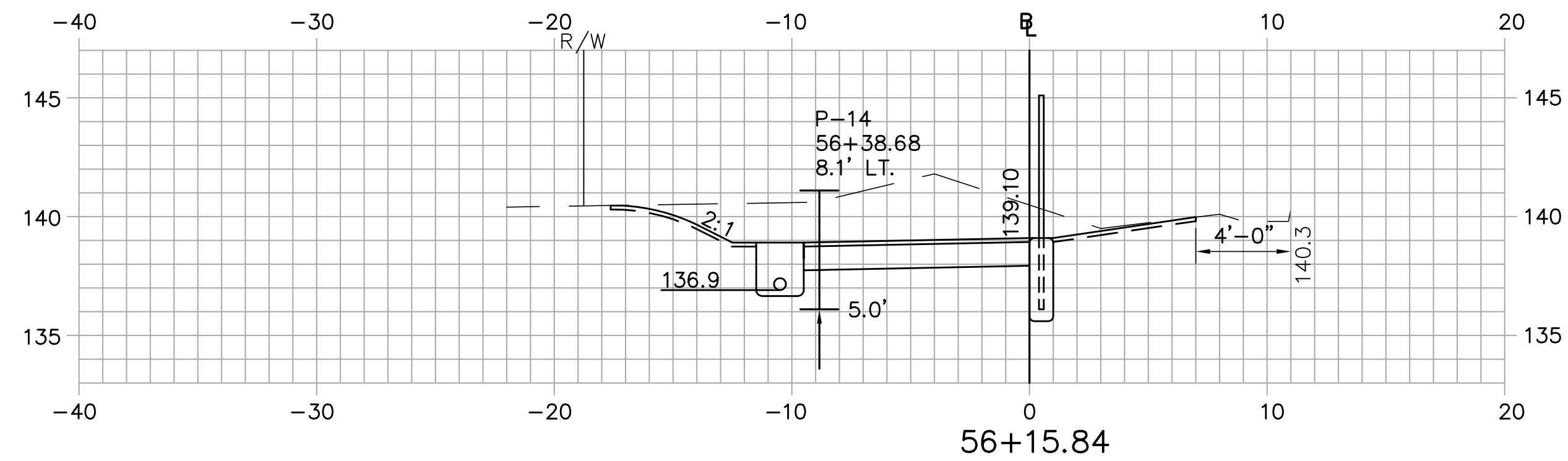
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CROSS SECTIONS

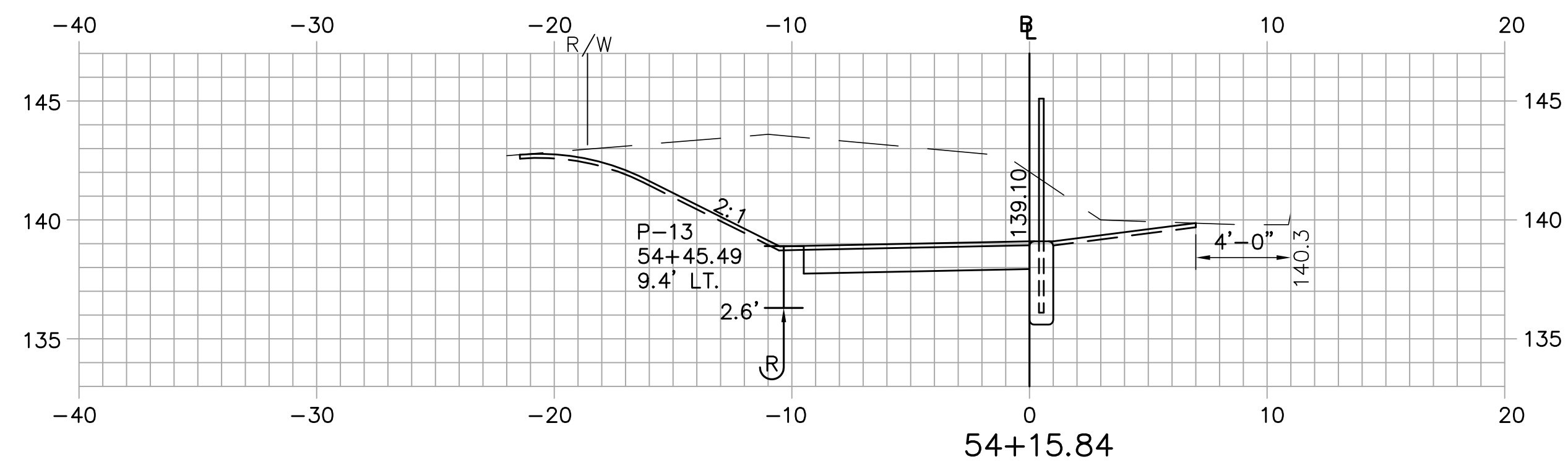
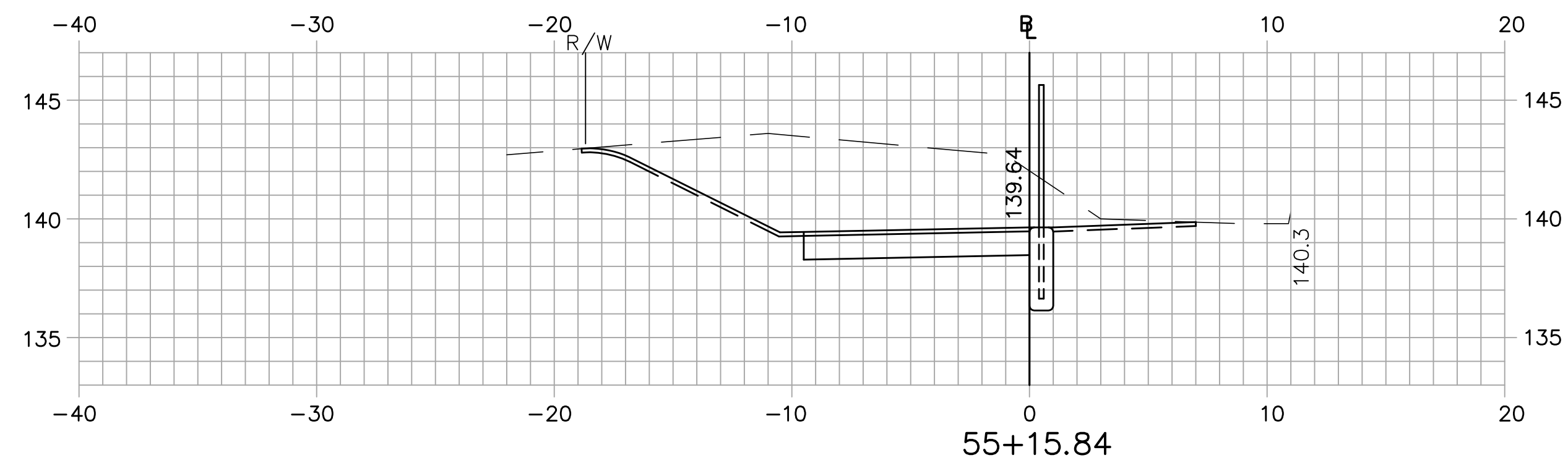
SHEET NUMBER

37

OF 54



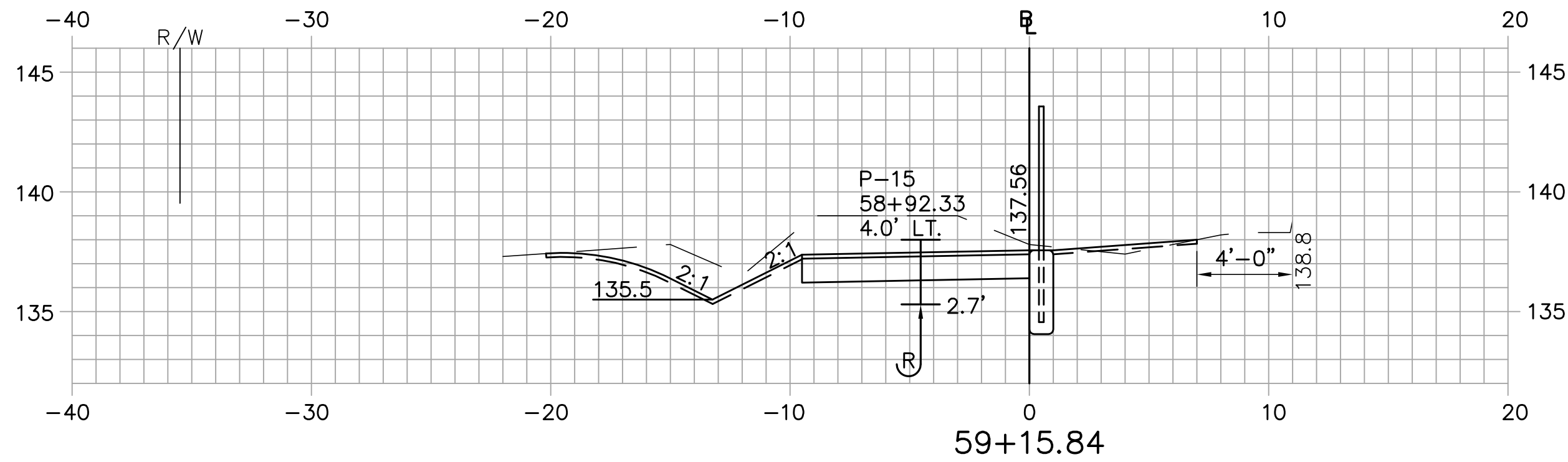
STA. 56+00.00, 10.5' LT. TO STA. 58+65.20, 10.5' LT.
INSTALL STONE DRAIN WITH
265' X 6" UNDERDRAIN PIPE PERFORATIONS UP



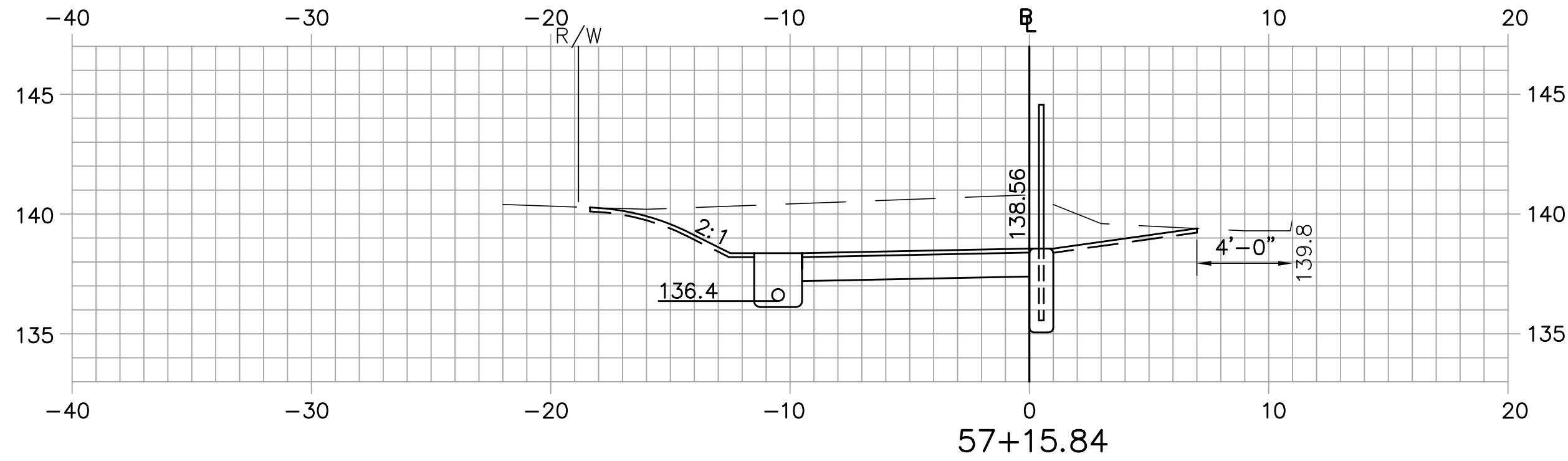
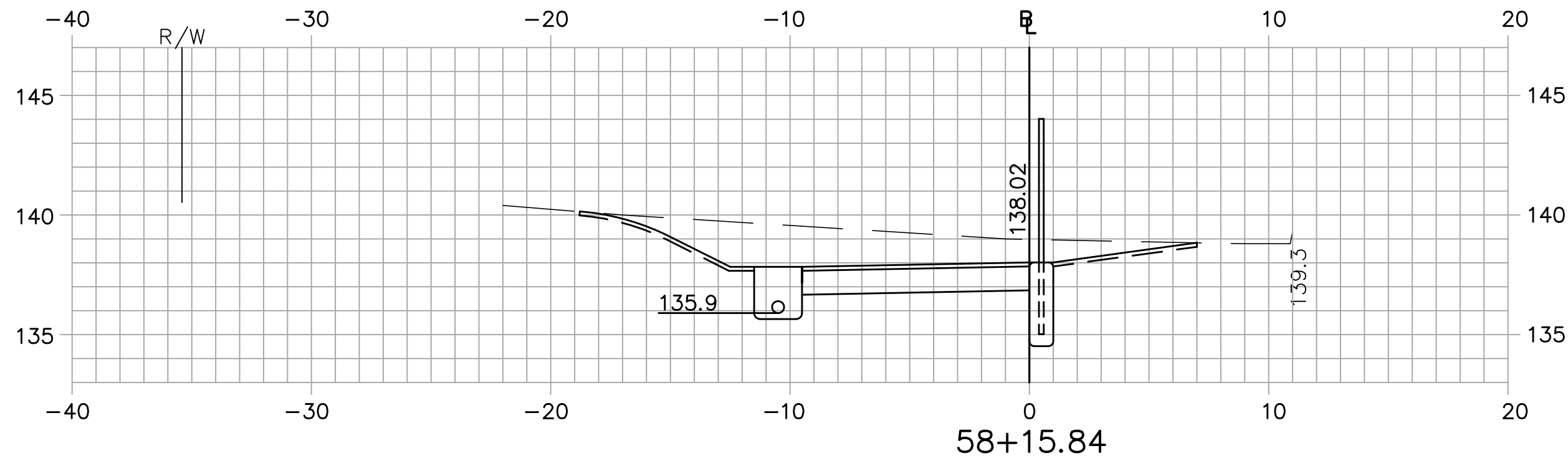
PROJ.	MANAGER	JOEL KITTRIDGE	BY	DATE
DESIGNED			EAP	08/10
DRAWN			EAP	08/10
CHECKED			BWA	08/10
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
REVISIONS 5				
FIELD CHANGES				
				SIGNATURE
				P.E. NUMBER
				DATE

**ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS**

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STA. 58+65 TO STA. 59+65 LT.
CONSTRUCT DITCH WITH TEMPORARY
EROSION CONTROL BLANKET



One Grant Street
Framingham, MA 01701-9005
508.903.2000
www.tetratechrizzo.com

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL

CROSS SECTIONS

SHEET NUMBER

39

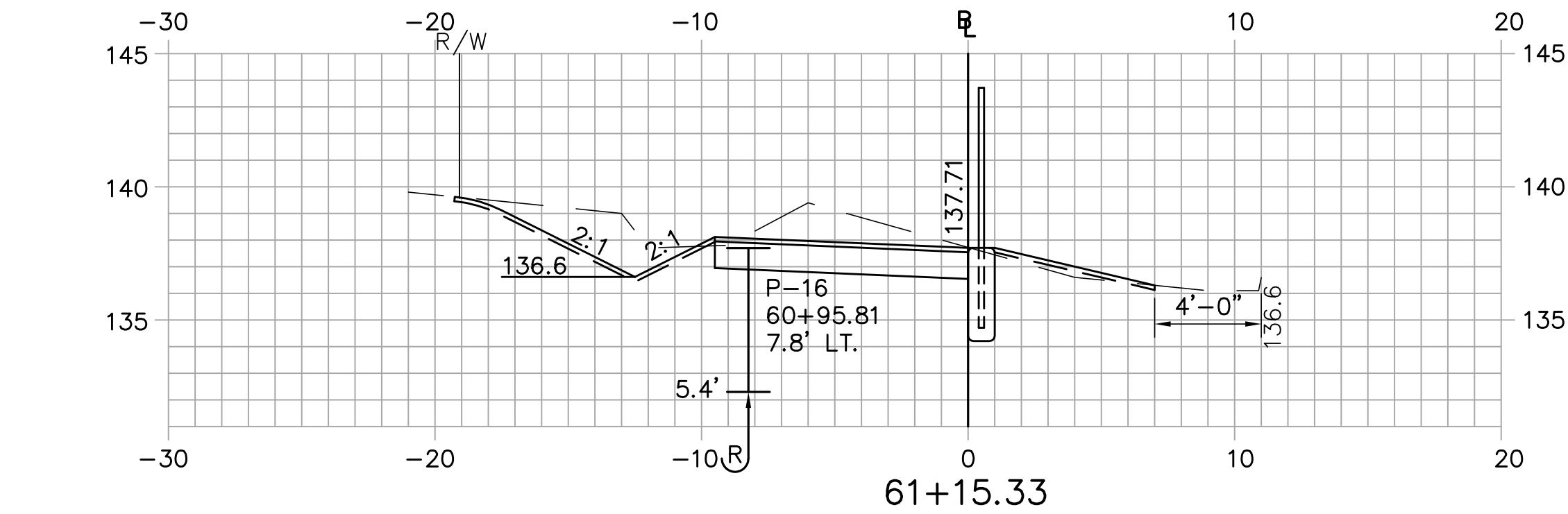
OF 54

PROJ. MANAGER	JOEL KITREDGE	DATE
DESIGNED	EAP	08/10
DRAWN	EAP	08/10
CHECKED	BWA	08/10
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
FIELD CHANGES		

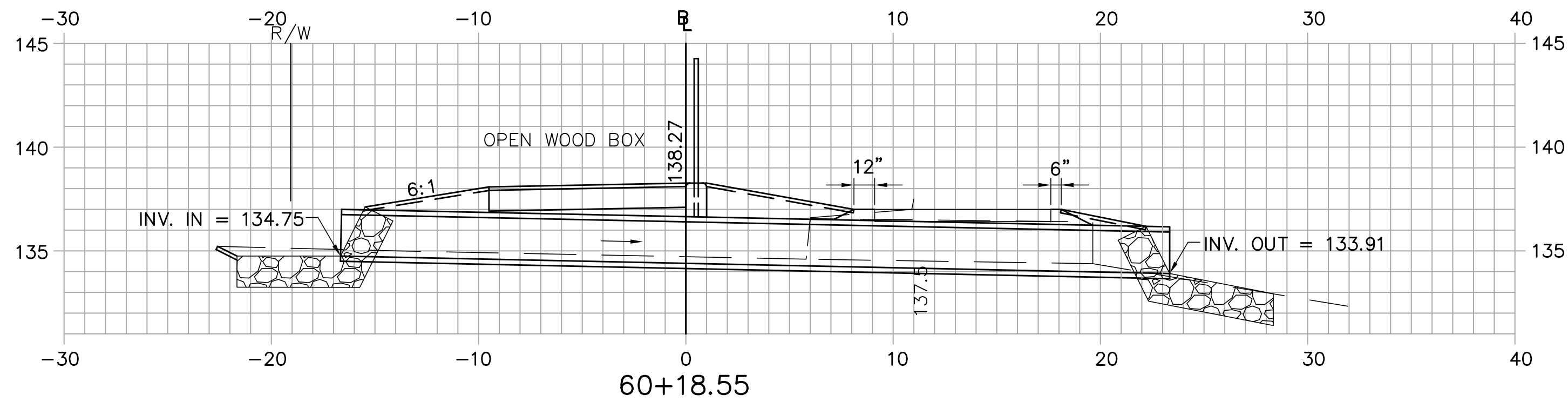
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P.E. NUMBER
DATE

5007

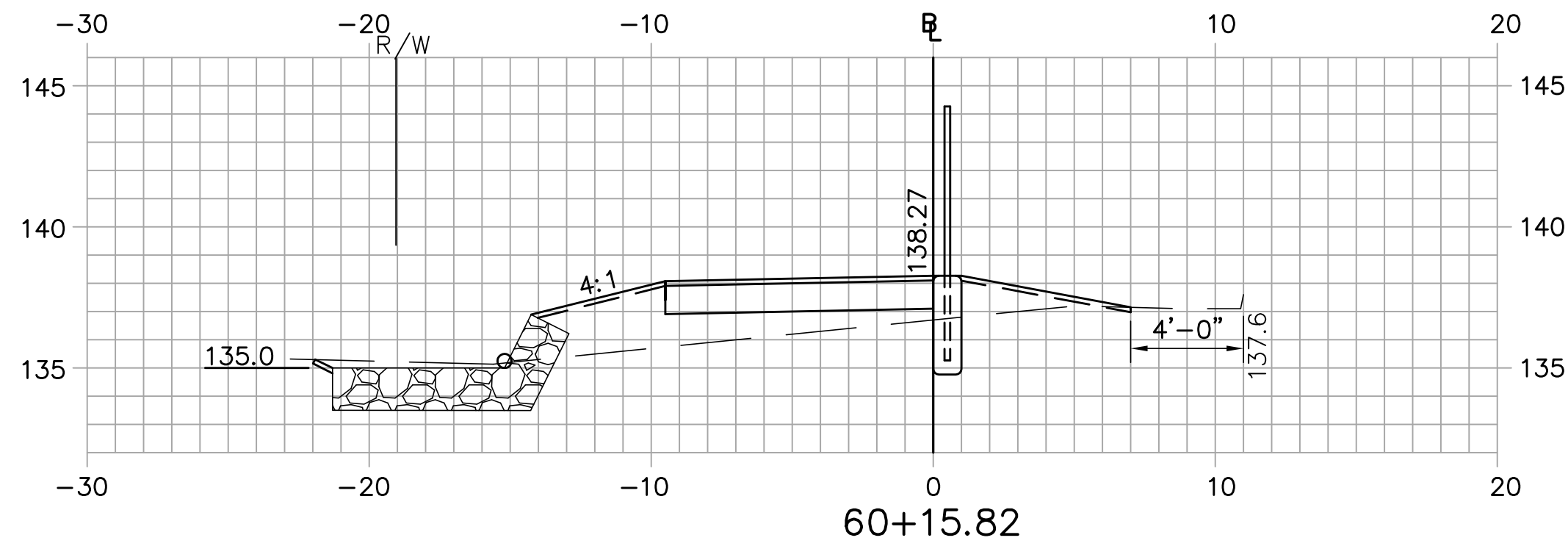
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STA. 60+25 TO STA. 61+45 LT.
CONSTRUCT DITCH WITH TEMPORARY EROSION CONTROL
BLANKET TO INTERCEPT DAVIS STREET RUNOFF
GRADE DITCH TO DRAIN TOWARDS CULVERT AT STA. 60+18
CONSTRUCT 2 MODIFIED STONE CHECK DAMS, EVENLY SPACED



STA. 60+18.30, 16.4' LT. TO STA. 60+18.88, 23.3' RT.
INSTALL 40' X 24" RCP CLASS V CULVERT



STA. 59+65.20, 10.5' LT. TO STA. 60+11.00, 10.5' LT.
INSTALL STONE DRAIN WITH
52' X 6" UNDERDRAIN PIPE PERFORATIONS UP
(PIPE EXTENDS 7' BEYOND STONE DRAIN AT STA. 60+11.00)
INSTALL 45° BEND AT STA. 60+11.00 (INCIDENTAL)



One Grant Street
Framingham, MA 01701-9005
508.503.2000
www.tetratechrizzo.com

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL

CROSS SECTIONS

SHEET NUMBER

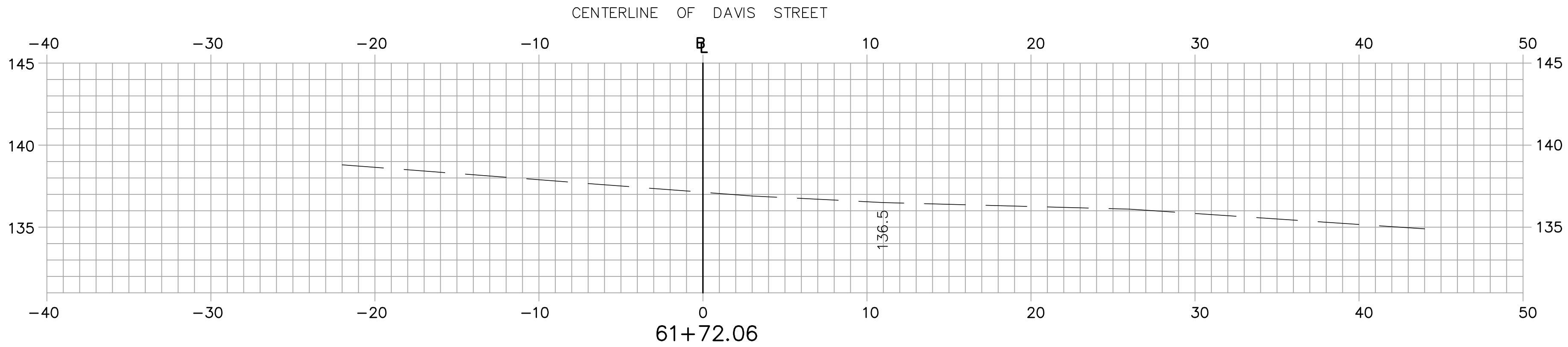
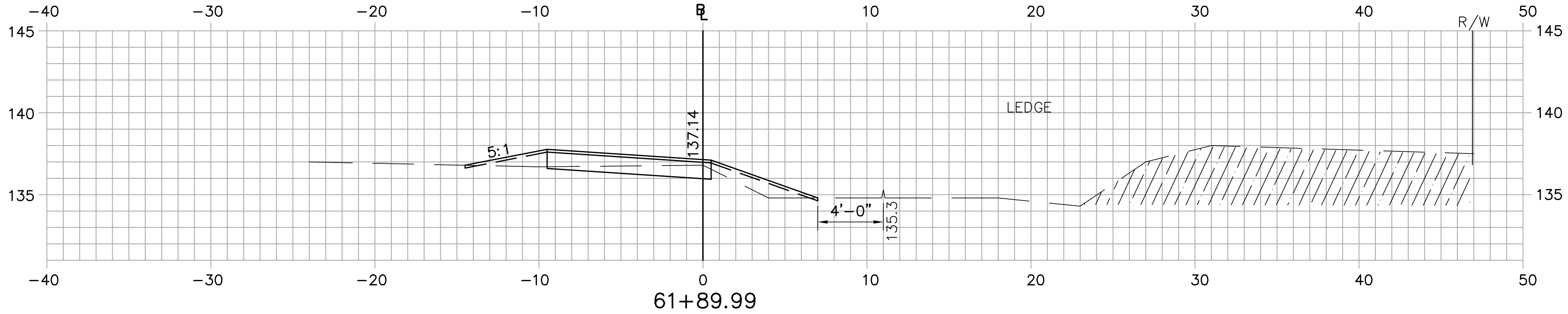
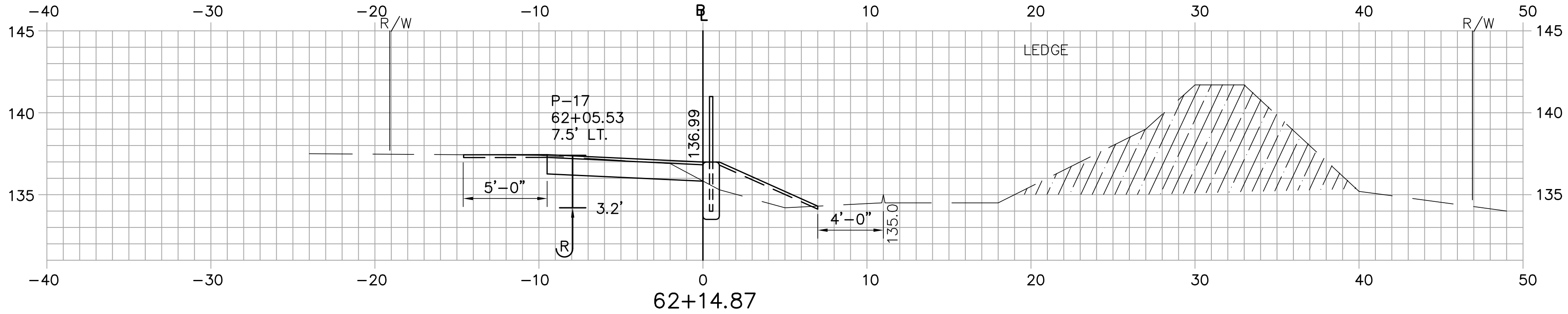
40

OF 54

PROJ. MANAGER	JOEL KITREDGE	DATE	DATE
DESIGNED	EAP	08/10	08/10
DRAWN	EAP	08/10	08/10
CHECKED	BWA	08/10	08/10
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

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Framingham, MA 01701-9005
508.503.2000
www.tetratechrizzo.com

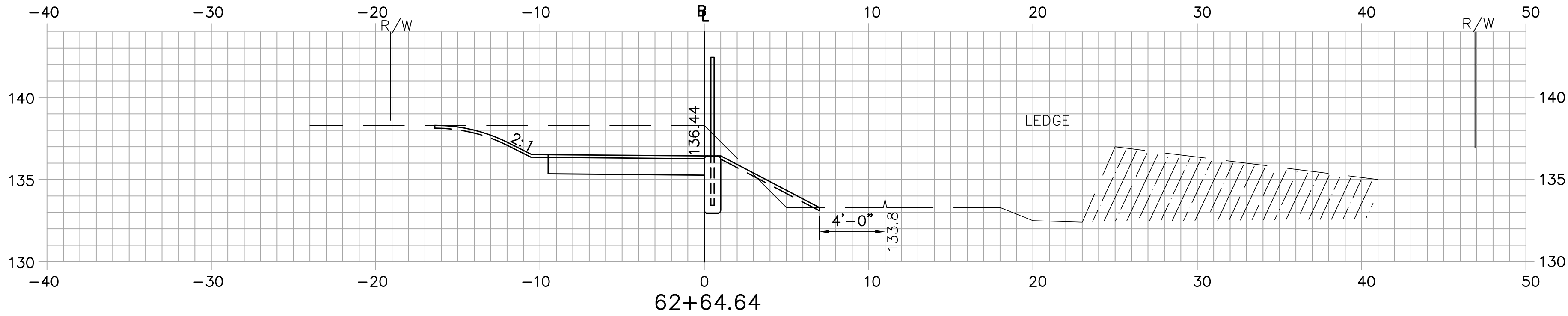
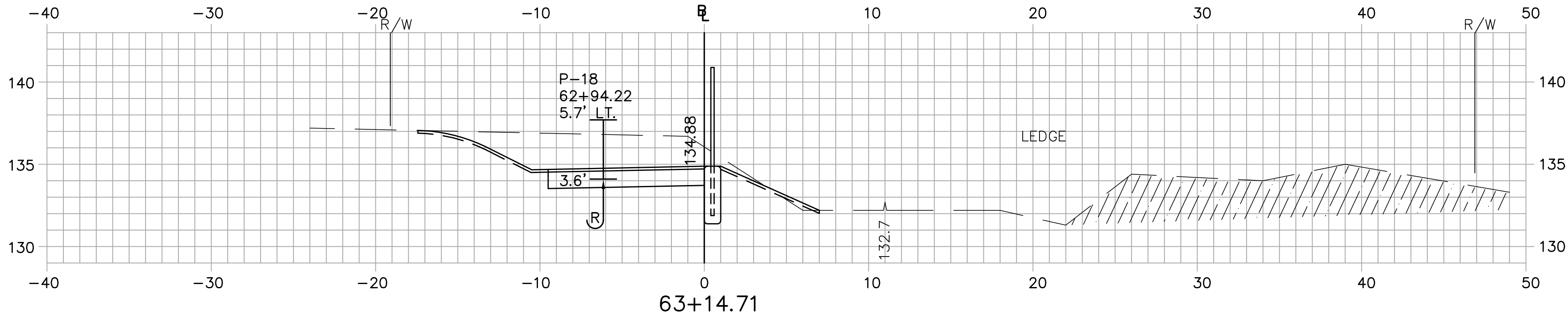
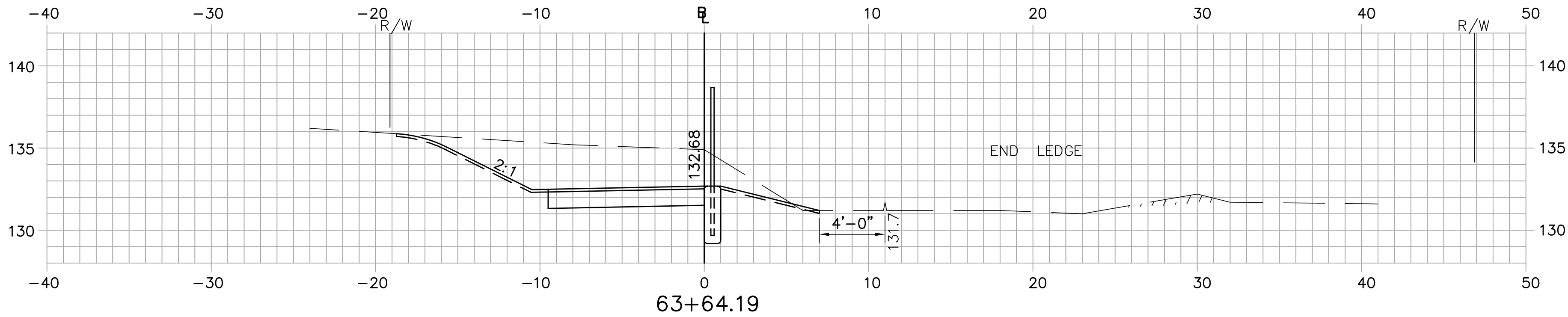
DESIGNED	DATE
DRAWN	08/10
CHECKED	08/10
REVISIONS 1	08/10
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
REVISIONS 5	
FIELD CHANGES	

PROJ. MANAGER	BY	DATE
JOEL KITREDGE	EAP	08/10
	EAP	08/10
	BWA	08/10

ELLSWORTH BICYCLE AND PEDESTRIAN TRAIL CROSS SECTIONS

SHEET NUMBER
41
OF 54

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508.903.2000
www.tetratechrizzo.com

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS

SHEET NUMBER

42

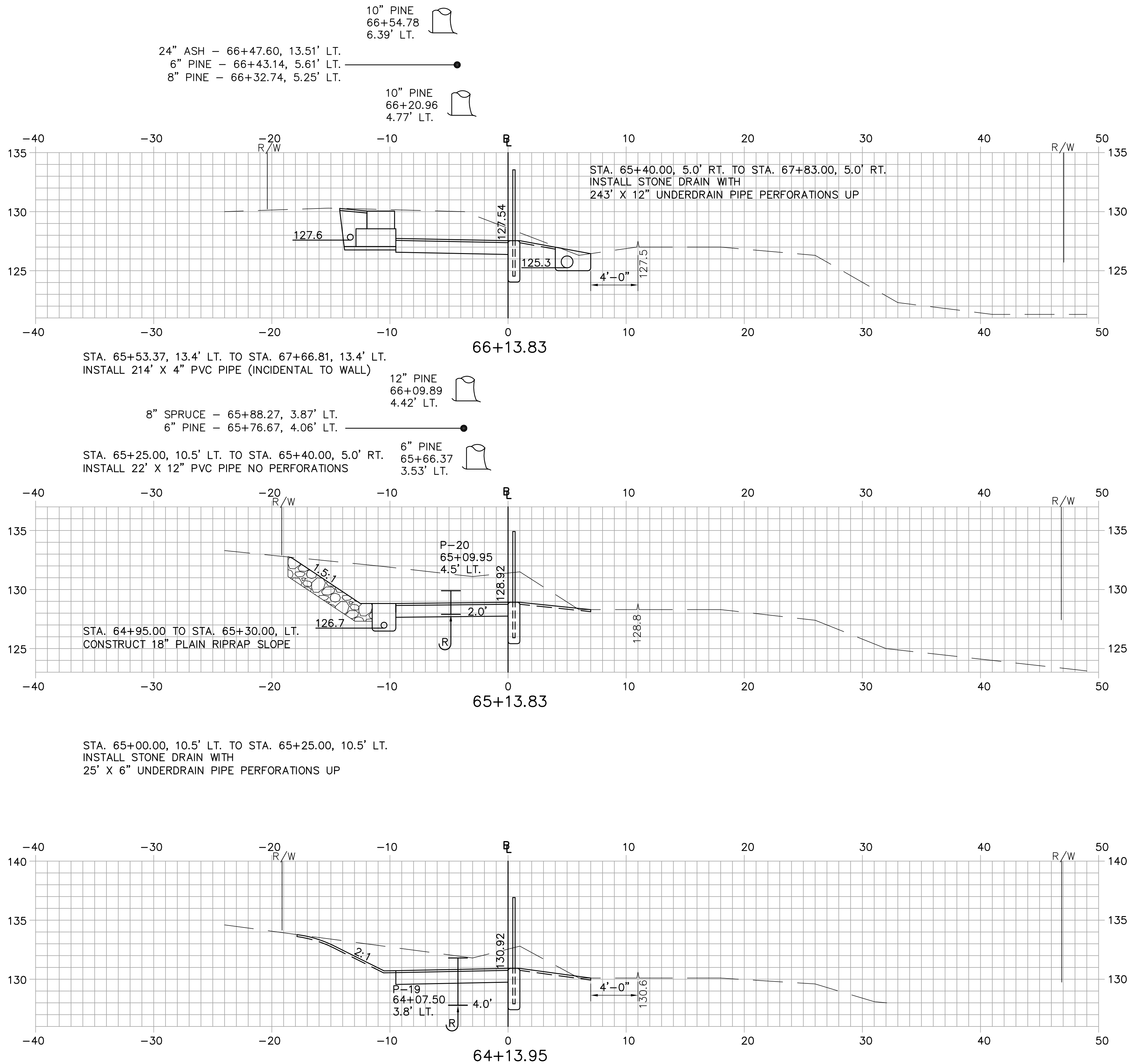
OF 54

PROJ. MANAGER	JOEL KITREDGE	BY	DATE
DESIGNED	EAP	EAP	08/10
DRAWN	EAP	EAP	08/10
CHECKED	BWA	BWA	08/10
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

5007

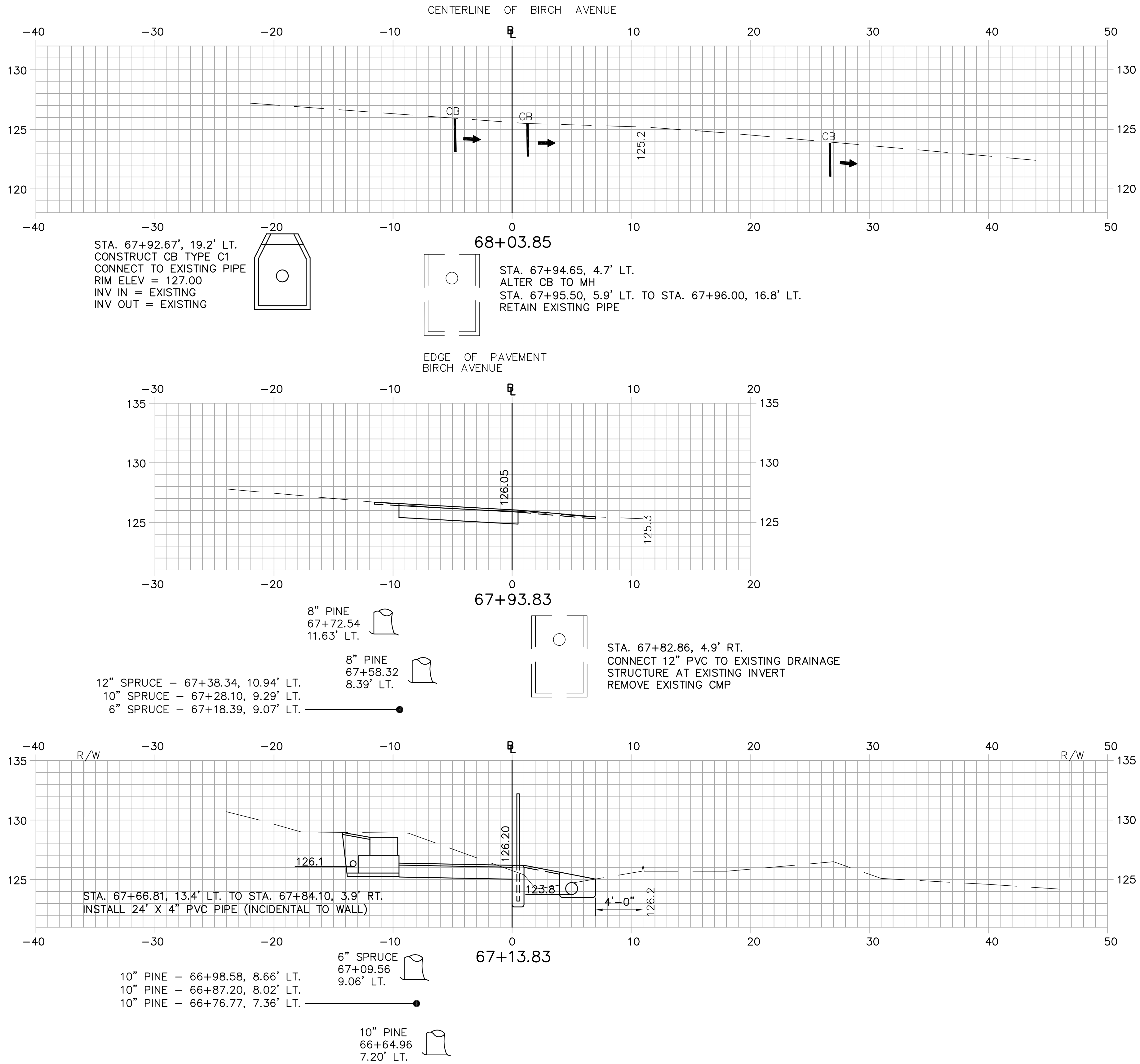
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PROJ. MANAGER	JOEL KITREDGE	BY	DATE		
DESIGNED		EAP	08/10		
DRAWN		EAP	08/10		SIGNATURE
CHECKED		BWA	08/10		
REVISIONS 1					P.E. NUMBER
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					DATE
REVISIONS 5					
FIELD CHANGES					

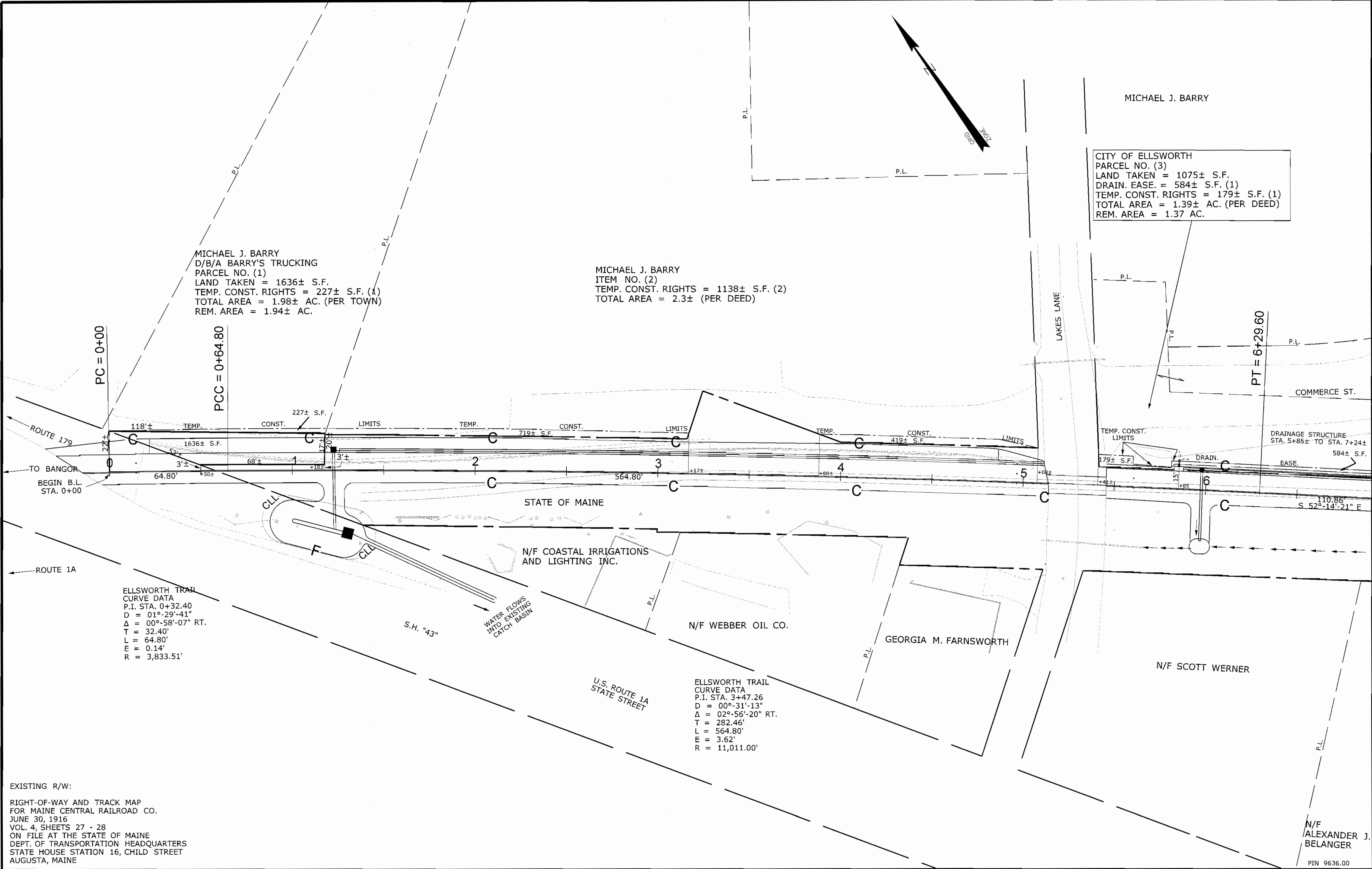
ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS

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PROJ. MANAGER	JOEL KITREDGE	BY	DATE
DESIGNED	EAP	EAP	08/10
DRAWN	EAP	EAP	08/10
CHECKED	BWA	BWA	08/10
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
FIELD CHANGES			

ELLSWORTH
BICYCLE AND PEDESTRIAN TRAIL
CROSS SECTIONS



ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 0+32.40
D = 01°-29'-41"
Δ = 00°-58'-07" RT.
T = 32.40'
L = 64.80'
e = 0.14'
R = 3,833.51'

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 3+47.26
D = 00°-31'-13"
Δ = 02°-56'-20" RT.
T = 282.46'
L = 564.80'
e = 3.62'
R = 11,011.00'

EXISTING R/W:
RIGHT-OF-WAY AND TRACK MAP
FOR MAINE CENTRAL RAILROAD CO.
JUNE 30, 1916
VOL. 4, SHEETS 27 - 28
ON FILE AT THE STATE OF MAINE
DEPT. OF TRANSPORTATION HEADQUARTERS
STATE HOUSE STATION 16, CHILD STREET
AUGUSTA, MAINE

SYMBOLS

OWELL (WELL)

GRADING LIMIT LINE

CONSTRUCTION LIMIT LINE

PROPERTY LINE

LIMITS OF WRIGHT PORTION (L.O.W.P.)

EXISTING RIGHT OF WAY

NEW RIGHT OF WAY

NEW ROW WITHIN EXIST. ROW

CONTROL OF ACCESS

CHECKED

ITEM

TECH

BASE MAP

EXIST. R/W

PROP. LINES

AREAS

BDM

BMD

BDM

BDM

BDM

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

ELLSWORTH

RIGHT OF WAY MAP

REVISIONS			PLAN FILED IN PLAN BOOK		PAGE		COUNTY RECORD		DAVID A. COLE	
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	COMMISSIONER
										KENNETH L. SWEENEY
										CHIEF ENGINEER
										DATE

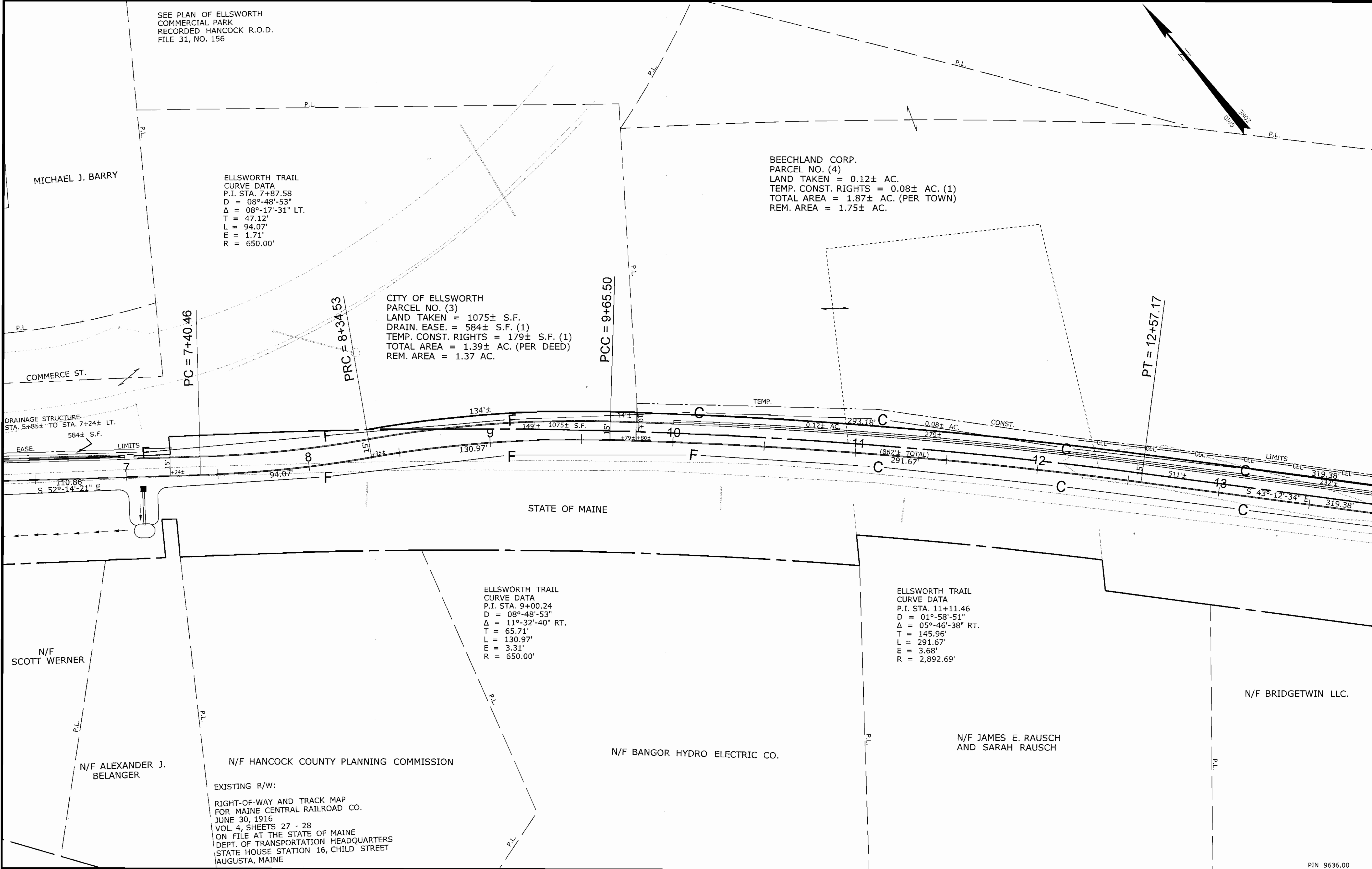
BICYCLE AND PEDESTRIAN TRAIL		
ADJACENT TO CALAIS BRANCH TRACK		
ELLSWORTH		HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X		
JUNE 2010	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 5-282
SCALE 1" = 25'	SHEET 1 OF 10	

Date:11/9/2010

Username: diana.grady

Division: ROW

Filename: ...\\00\\row\\msta\\002_RWPLAN2.dgn



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

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE

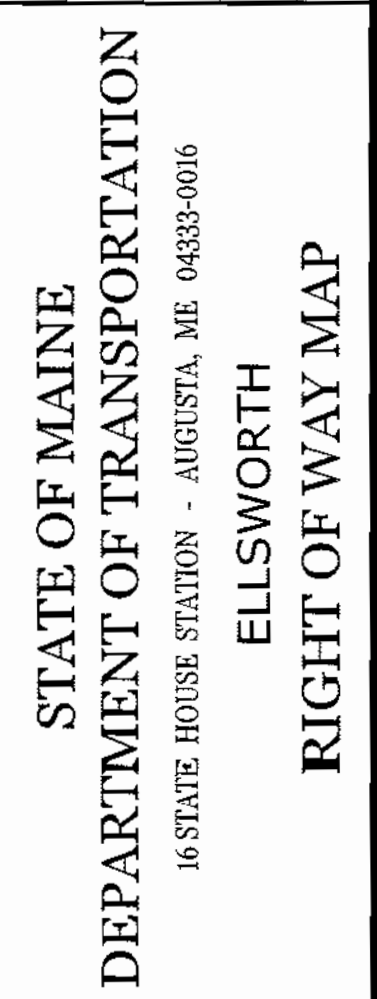
BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK
ELLSWORTH HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X
JUNE 2010 RIGHT-OF-WAY MAP
SCALE 1" = 25' SHEET 2 OF 10
D.O.T. FILE NO. 5-282

SYMBOLS	
• IP or • PF (IRON PIPE OR PIN FOUND)	○ WELL (WELL)
□ ST. (SEPTIC TANK)	— GRADING LIMIT LINE
▣ ROW MONUMENT	— CONSTRUCTION LIMIT LINE
△ (TRAVEL POINT)	— PROPERTY LINE
— WATER LINE	— PL
— GAS LINE	— LIMITS OF WRIGHT PORTION (D.O.P.)
— ELECTRIC LINE	— EXISTING RIGHT OF WAY
— TELEPHONE LINE	— NEW RIGHT OF WAY
— SEWER LINE	— NEW ROW WITHIN EXIST. ROW
	— CONTROL OF ACCESS

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

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

SHEET NUMBER
46
OF 54

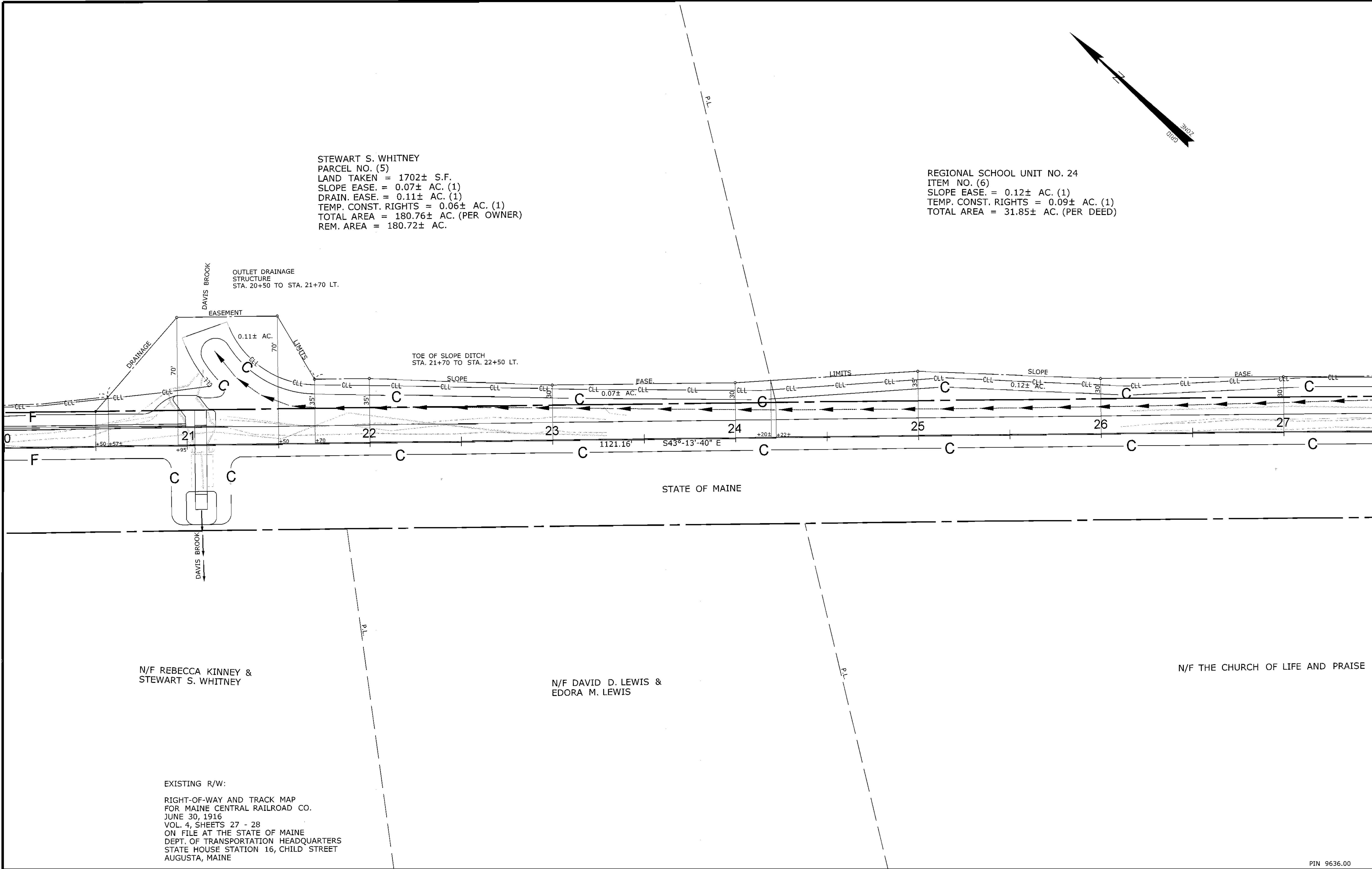
[illegible]

Date:11/9/2010

Username: diana.grady

Division: ROW

Filename: ...\\00\\row\\msta\\004_RWPLAN4.dgn



SYMBOLS	
• P or • PF (IRON PIPE OR PIN FOUND)	○ WELL (WELL)
□ S.T. (SEPTIC TANK)	--- GRADING LIMIT LINE
▣ ROW MONUMENT	--- CONSTRUCTION LIMIT LINE
△ (TRAVERSE POINT)	--- PROPERTY LINE
— WATER LINE	--- LIMITS OF WRIGHT PORTION (LOT/P)
— GAS LINE	--- EXISTING RIGHT OF WAY
— ELECTRIC LINE	--- NEW RIGHT OF WAY
— TELEPHONE LINE	--- NEW ROW WITHIN EXIST ROW
— SEWER LINE	--- CONTROL OF ACCESS

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

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

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

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK
ELLSWORTH
FEDERAL AID PROJECT NO. STP-9636(00)X

JUNE 2010
SCALE 1" = 25'

RIGHT-OF-WAY MAP
SHEET 4 OF 10

D.O.T. FILE NO. 5-282

SHEET NUMBER
48
OF 54

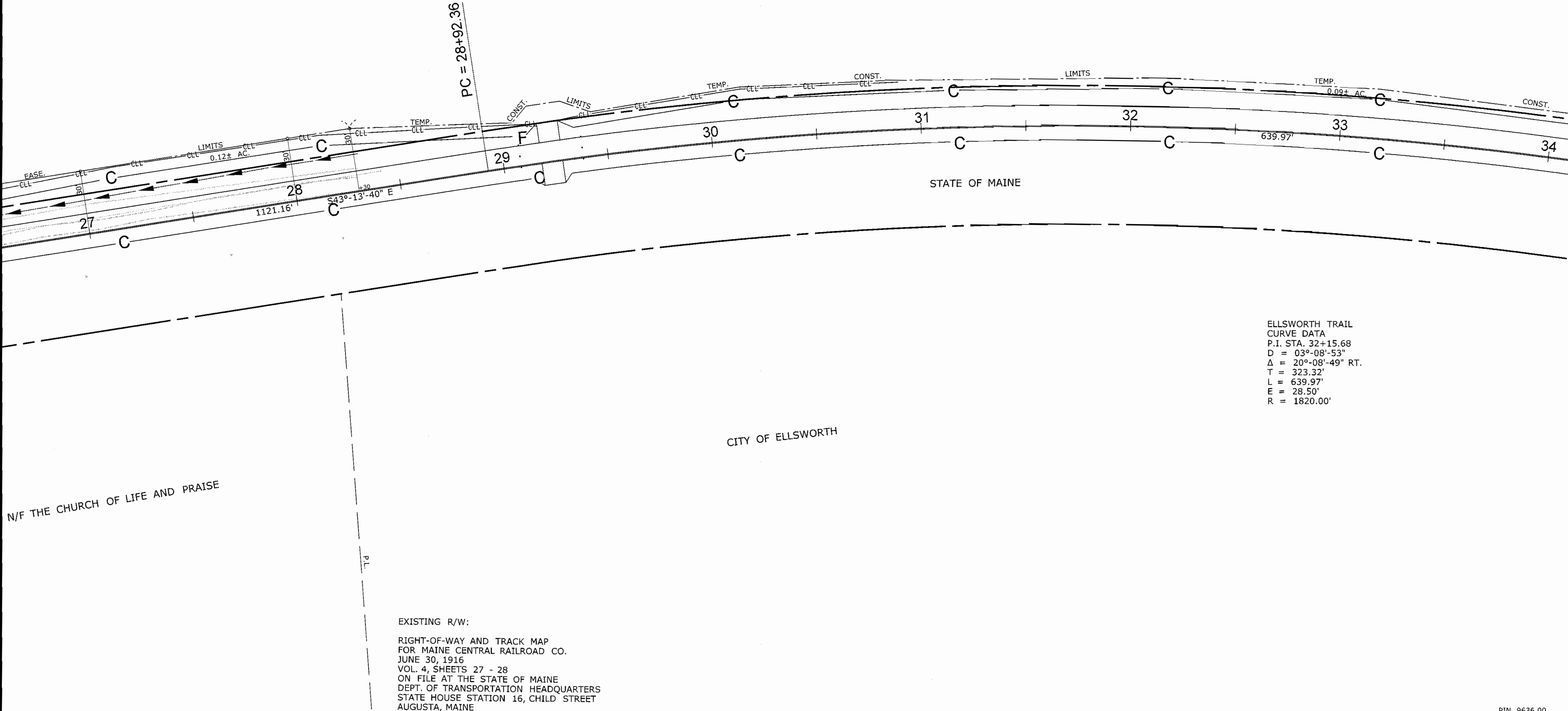
Date: 11/9/2010

Username: diana.grady

Division: ROW

Filename: ...\\00\\row\\msta\\005_RWPLAN5.dgn

REGIONAL SCHOOL UNIT NO. 24
ITEM NO. (6)
SLOPE EASE. = 0.12± AC. (1)
TEMP. CONST. RIGHTS = 0.09± AC. (1)
TOTAL AREA = 31.85± AC. (PER DEED)



ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 32+15.68
D = 03°-08'-53"
Δ = 20°-08'-49" RT.
T = 323.32'
L = 639.97'
E = 28.50'
R = 1820.00'

EXISTING R/W:
RIGHT-OF-WAY AND TRACK MAP
FOR MAINE CENTRAL RAILROAD CO.
JUNE 30, 1916
VOL. 4, SHEETS 27 - 28
ON FILE AT THE STATE OF MAINE
DEPT. OF TRANSPORTATION HEADQUARTERS
STATE HOUSE STATION 16, CHILD STREET
AUGUSTA, MAINE

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

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE

BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK
ELLSWORTH HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X

JUNE 2010
SCALE 1" = 25'

RIGHT-OF-WAY MAP
SHEET 5 OF 10

D.O.T. FILE NO. 5-282

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

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

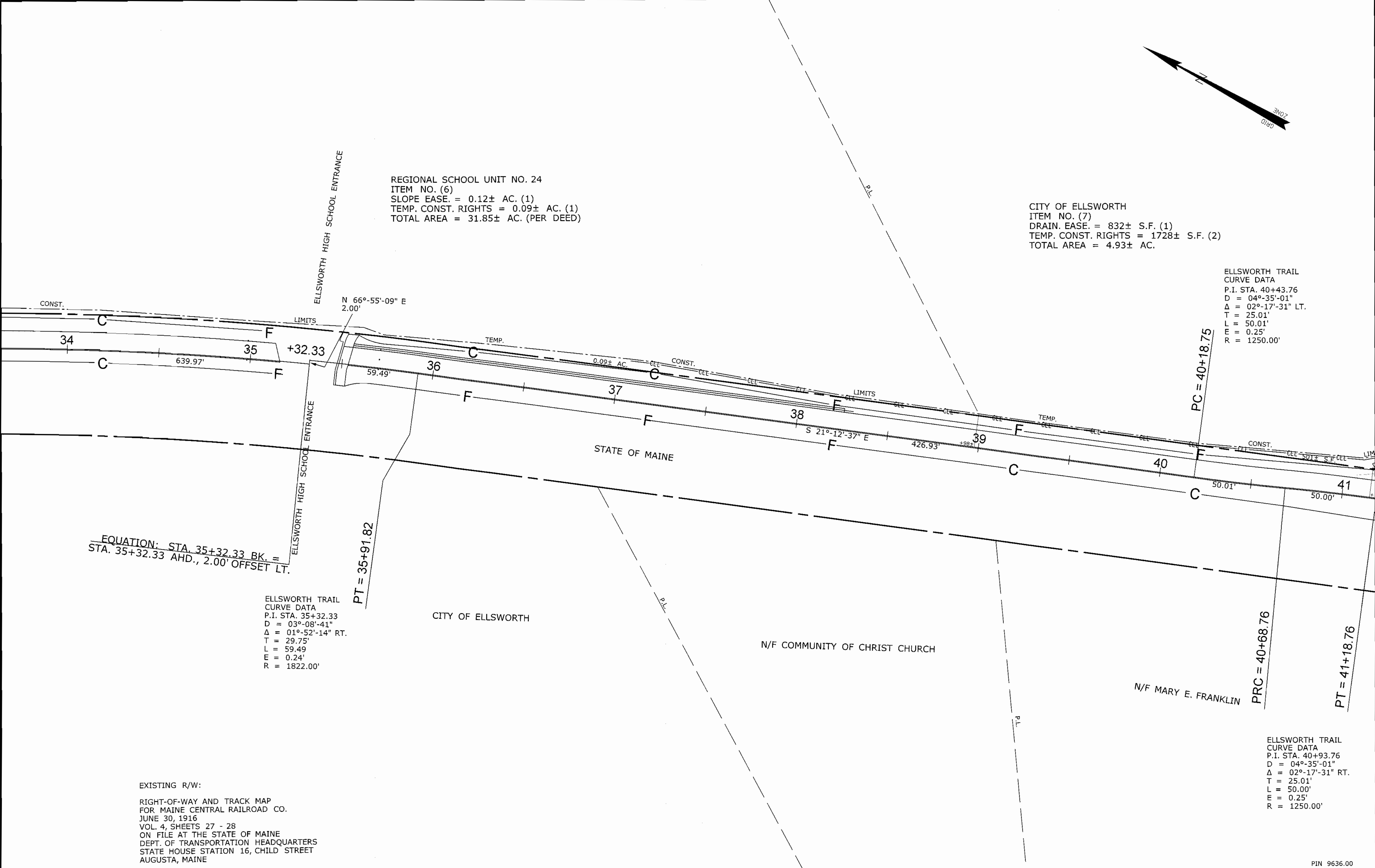
SYMBOLS
• 1" = 100' (IRON PIPE & PIN FOUND)
□ 1" = 100' (SEPTIC TANK)
□ 1" = 100' (ROW MONUMENT)
ABM (TRAVERSE POINT)
— WATER LINE
— GAS LINE
— ELECTRIC LINE
— TELEPHONE LINE
— SEWER LINE
○ WELL
--- GRADING LIMIT LINE
--- CONSTRUCTION LIMIT LINE
--- PROPERTY LINE
--- PL
--- LIMITS OF WROUGHT PORTION (LOW P.)
--- EXISTING RIGHT OF WAY
--- NEW RIGHT OF WAY
--- NEW ROW WITH EXIST ROW
--- CONTROL OF ACCESS

Date:11/9/2010

Username: diana.grady

Division: ROW

Filename: ... \00\row\msta\006_RWPLAN6.dgn



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

DAVID A. COLE

COMMISSIONER

KENNETH L. SWEENEY

CHIEF ENGINEER

DATE

BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK
ELLSWORTH
HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X

JUNE 2010

RIGHT-OF-WAY MAP

SCALE 1" = 25'

SHEET 6 OF 10

D.O.T. FILE NO. 5-282

SYMBOLS

• IP of

• OF

• S.T. (SEPTIC TANK)

• ROW MONUMENT

• A&M (TRAVERSE POINT)

• WATER LINE

• GAS LINE

• ELECTRIC LINE

• TELEPHONE LINE

• SEWER LINE

OWELL

GRADING LIMIT LINE

CONSTRUCTION LIMIT LINE

PROPERTY LINE

PL

LIMITS OF WROUGHT PORTION (L.O.W.P.)

EXISTING RIGHT OF WAY

NEW RIGHT OF WAY

NEW ROW WITHIN EXIST. ROW

CONTROL OF ACCESS

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

SHEET NUMBER
50
OF 54

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 47+08.14
D = 02°-01'47"
Δ = 15°-34'-52" LT.
T = 386.19'
L = 767.61'
E = 26.30'
R = 2822.70'

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 42+95.41
D = 08°-48'-53"
Δ = 04°-40'-54" LT.
T = 26.57'
L = 53.11'
E = 0.54'
R = 650.00'

ELLSWORTH FALLS LUMBER COMPANY
ITEM NO. (8)
SLOPE EASE. = 1335± S.F. (1)
TEMP. CONST. RIGHTS = 1767± S.F. (2)
TOTAL AREA = 3.0± AC, (PER DEED)

INLET DRAINAGE
STRUCTURE
STA. 41+15 TO 41+75 LT.

$$\underline{PRC = 42 + 68.84}$$
$$\text{PCC} = \cancel{43} + 21.95$$

STATE OF MAINE

N/F CITY OF ELLSWORTH

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 40+93.76
D = 04°-35'-01"
Δ = 02°-17'-31" RT.
T = 25.01'
L = 50.00'
E = 0.25'
R = 1250.00'

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 42+43.82
D = 08°+48'-53"
Δ = 04°-24'-45" RT.
T = 25.04'
L = 50.06'
E = 0.48'
R = 650.00'

EXISTING R/W:
RIGHT-OF-WAY AND TRACK MAP
FOR MAINE CENTRAL RAILROAD CO.
JUNE 30, 1916
VOL. 4, SHEETS 27 - 28
ON FILE AT THE STATE OF MAINE
DEPT. OF TRANSPORTATION HEADQUARTERS
STATE HOUSE STATION 16, CHILD STREET
AUGUSTA, MAINE

[illegible]

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

BICYCLE AND PEDESTRIAN TRAIL
 ADJACENT TO CALAIS BRANCH TRACK
 ELLSWORTH HANCOCK COUNTY
 FEDERAL AID PROJECT NO. STP-9636(00)X

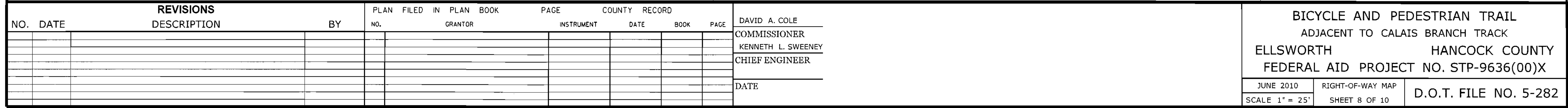
JUNE 2010	RIGHT-OF-WAY MAP	
SCALE 1" = 25'	SHEET 7 OF 10	D.O.T. FILE NO. 5-282

SHEET NUMBER

51

OF 54

Filename: ... \00\row\msta\008_RWPLAN8.dgn



STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

ELLSWORTH

RIGHT OF WAY MAP

SHEET NUMBER

52

OF 54

DATE

10/1/2010

ITEM	TECH	CHECKED	SYMBOLS	(WELL)
BASE MAP	BDM		• IP or • IF (IRON PIPE or PIN FOUND) ○ S.T. (SEPTIC TANK) □ (ROW MONUMENT) Δ BM (TRAVERSE POINT)	— GRADING LIMIT LINE — — — — — CONSTRUCTION LIMIT LINE — — — — — PROPERTY LINE — — — — PL — — — — — LIMITS OF WROUGHT PORTION (LOW P.) — — — — — EXISTING RIGHT OF WAY — — — — — NEW RIGHT OF WAY — — — — — NEW ROW WITHIN EXIST. ROW — — — — — SEWER LINE — — — —
EXIST. R/W	BMD		— WATER LINE — — — — W — — — — — GAS LINE — — — — G — — — — — ELECTRIC LINE — — — — E — — — — — TELEPHONE LINE — — — — T — — — —	
PROP. LINES	BDM			
AREAS	BDM			CONTROL OF ACCESS

THIS AREA

SEE SURVEY PROPERTY PLAN FOR
V. ALICE CARLISLE, ALFRED G. MOSCA
AND RICHARD W. WHITNEY
BY STEPHEN E. DOWNEY
FEBRUARY 1985
FILED AT HANCOCK REGISTRY OF DEEDS
FILE 19, NO. 101

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 62+22.13
D = 02°-24'-48"
Δ = 10°-26'-39" LT.
T = 216.97'
L = 432.74'
E = 9.89'
R = 2374.00'

ITEM NO. 12 OMITTED

ALBERT G. VARNUM, III
BRENDA L. VARNUM

ALFRED G. MOSCA
LLOYD B. WOLF
ITEM NO. (11)
DRAINAGE EASE. = 640± S.F. (2)
TEMP. CONST. RIGHTS = 0.08± AC. (2)
TOTAL AREA = 6.65± AC. (PER SURVEY)

$$PC = 60 + 0.16$$

INLET DRAINAGE
STRUCTURE
STA. 60+08 TO STA. 60+50 LT.
DRAIN. EASE.
LIMITS
157± S.F.

EXISTING
DRAINAGE
PATH

IP OF (IF FOUND, OF PIN FOUND) ○ WELL

— S₁ (SEPTIC TANK) — GRADING LIMIT LINE —

— (ROOM MONUMENT) — CONSTRUCTION LIMIT LINE —

— (TRANSVERSE POINT) — PROPERTY LINE — PL —

— WATER LINE —

— GAS LINE —

— ELECTRIC LINE —

— TELEPHONE LINE —

— SEWER LINE —

— LIMITS OF WROUGHT PORTION (L.O.W.P.) —

EXISTING RIGHT OF WAY

NEW RIGHT OF WAY

NEW ROW WITHIN EXIST. ROW

CONTROL OF SEVER LINE

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

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

SHEET NUMBER

53

OF 54

BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK
ELLSWORTH HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X

JUNE 2010	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 5-282
SCALE 1" = 25'	SHEET 9 OF 10	

[illegible]

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE _____

BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK

ELLSWORTH HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X

Date:11/9/2010

Username: diana.grady

Division: ROW

Filename: ...\\00\\row\\msta\\010_RWPLAN10.dgn

ELLSWORTH TRAIL
CURVE DATA
P.I. STA. 62+22.13
D = 02°-24'-48"
Δ = 10°-26'-39" LT.
T = 216.97'
L = 432.74'
E = 9.89'
R = 2374.00'

GLENDON P. SPRAGUE
MARY P. SPRAGUE
ITEM NO. (14)
TEMP. CONST. RIGHTS = 1185± S.F. (1)
TOTAL AREA = 1.12± AC. (PER TOWN)

ALBERT G. VARNUM, III
BRENDA L. VARNUM
ITEM NO. (13)
TEMP. CONST. RIGHTS = 300± S.F. (1)
TOTAL AREA = 9542± S.F. (PER MEASURE)

MARC S. BLANCHETTE
DIANE E. BLANCHETTE

N/F JOSEPH PAUL SALA, SR.

BIRCH ST.

+03.85
END B.L.
STA. 68+03.85

TO HANCOCK

STATE OF MAINE

BIRCH ST.

N/F JUDITH H. TUCKER

N/F MOLLY G. WEBSTER
& WILLIAM T. WEBSTER

N/F CHARLES E. LOUNDER
SANDRA LOUNDER

N/F STEPHEN E. SARGENT

N/F CHUNG M. PHAM

EXISTING R/W:

RIGHT-OF-WAY AND TRACK MAP
FOR MAINE CENTRAL RAILROAD CO.
JUNE 30, 1916
VOL. 4, SHEETS 27 - 28
ON FILE AT THE STATE OF MAINE
DEPT. OF TRANSPORTATION HEADQUARTERS
STATE HOUSE STATION 16, CHILD STREET
AUGUSTA, MAINE

SYMBOLS	
• IP or • (IRON PIPE or PIN FOUND)	(WELL)
□ S.T. (SEPTIC TANK)	— GRADING LIMIT LINE
▣ S.T. (ROW MONUMENT)	— CONSTRUCTION LIMIT LINE
△ BM (TRAVERSE POINT)	— PROPERTY LINE
— WATER LINE	— PL
— GAS LINE	— LIMITS OF RIGHT-OF-WAY (LOW P.)
— ELECTRIC LINE	— EXISTING RIGHT-OF-WAY
— TELEPHONE LINE	— NEW RIGHT-OF-WAY
— SEWER LINE	— NEW ROW WITHIN EXIST. ROW
	— CONTROL OF ACCESS

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

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

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

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE

BICYCLE AND PEDESTRIAN TRAIL
ADJACENT TO CALAIS BRANCH TRACK
ELLSWORTH
HANCOCK COUNTY
FEDERAL AID PROJECT NO. STP-9636(00)X
JUNE 2010
SCALE 1" = 25'
RIGHT-OF-WAY MAP
SHEET 10 OF 10
D.O.T. FILE NO. 5-282

SHEET NUMBER
54
OF 54