

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



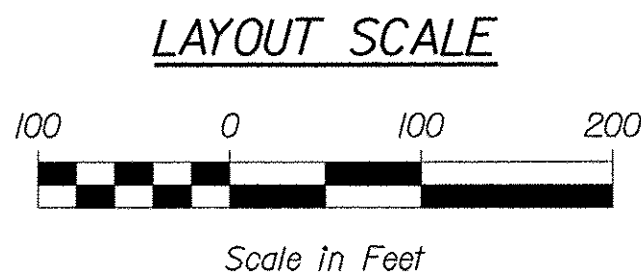
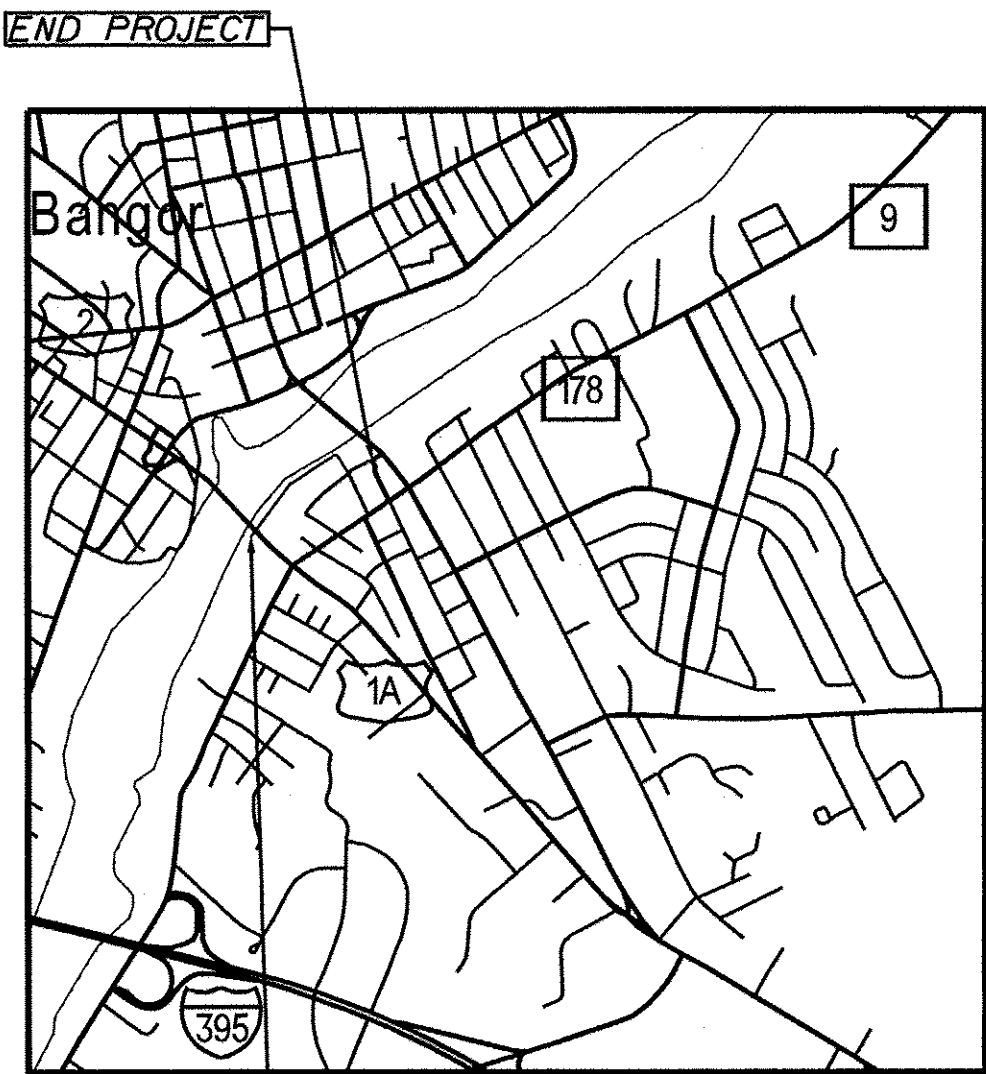
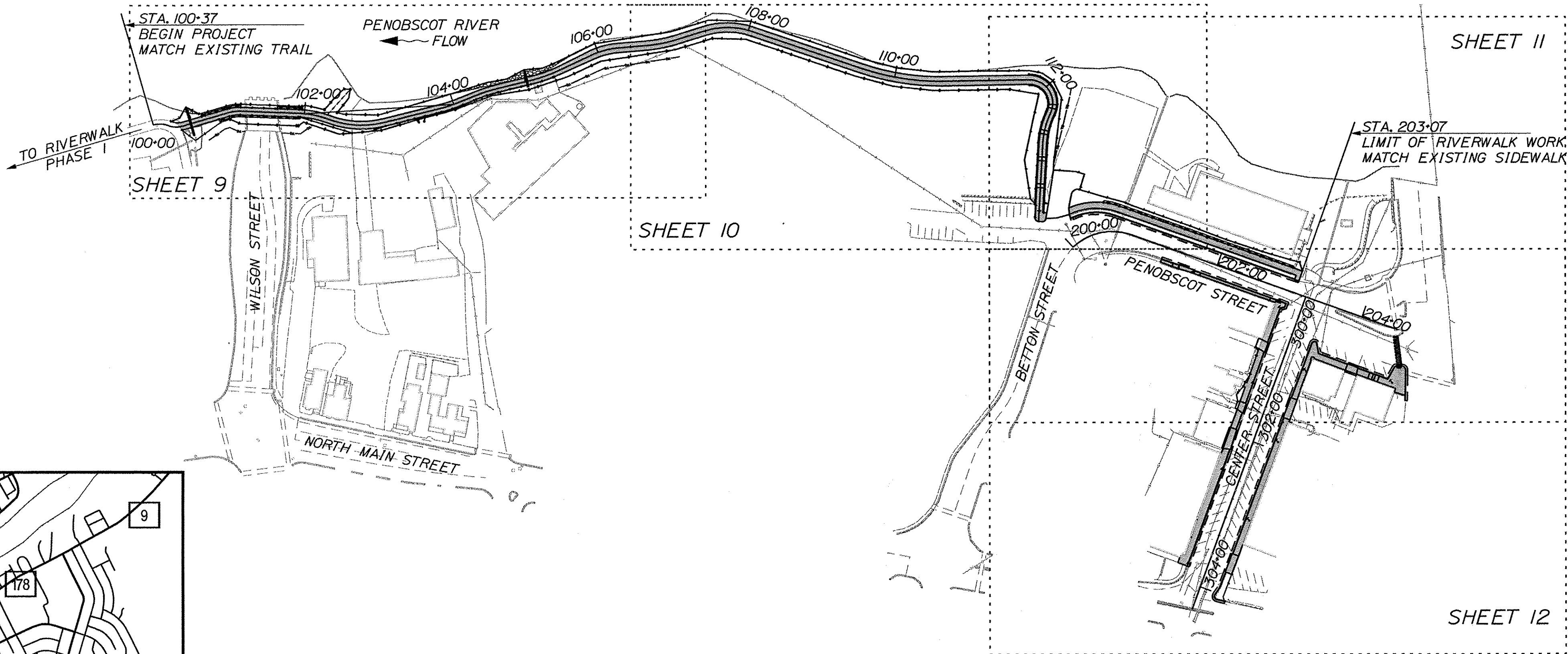
BREWER
PENOBSCOT COUNTY
BREWER RIVERWALK PHASE II
HPP-1885(800)
PROJECT LENGTH: 0.40 MILES

PLAN LEGEND

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

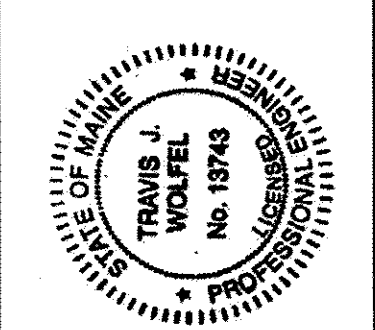
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PROJECT LOCATION:	ALONG THE PENOBSCOT RIVER FROM WILSON STREET TO STATE STREET
PROGRAM AREA:	MULTIMODAL
SCOPE OF WORK:	BICYCLE-PEDESTRIAN MULTI-USE PATH

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>David J. Wolfel</i>	<i>[Signature]</i>	9/16/18
CHIEF ENGINEER: <i>Jane M. Taylor</i>	<i>[Signature]</i>	4-6-18



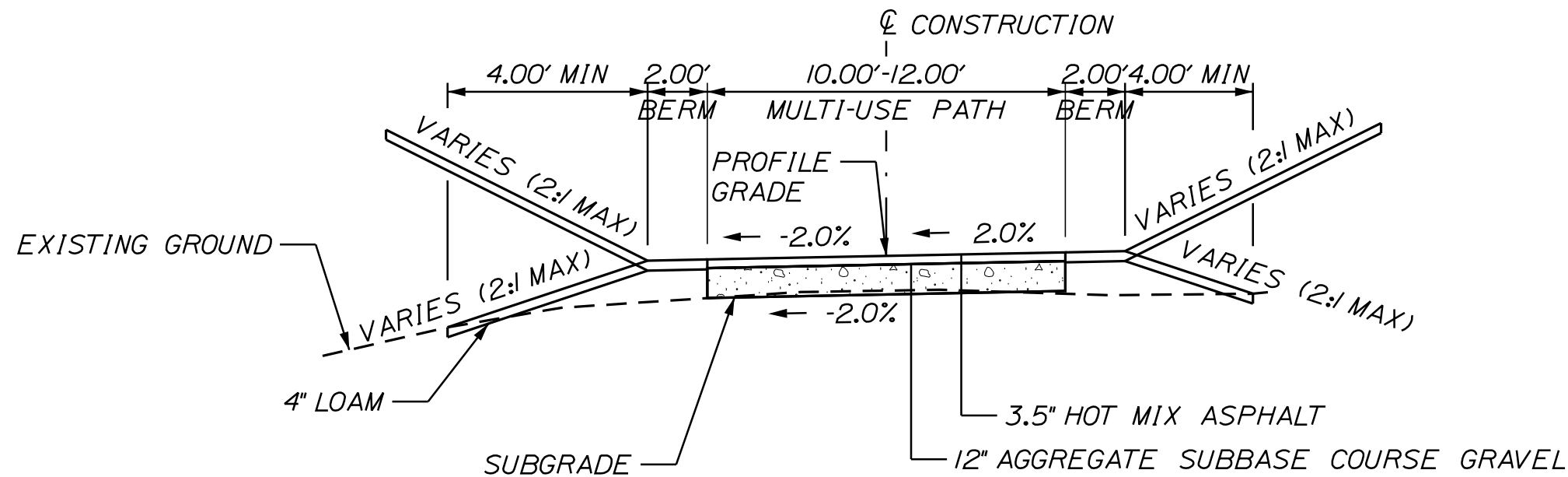
Travis J. Wolfel	SIGNATURE	P.E. NUMBER	DATE
	13743	3/26/18	

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
MULTIMODAL	CATHERINE RAND	TRAVIS WOLFEL	KLEINFELDER				

BREWER BREWER RIVERWALK	TITLE SHEET
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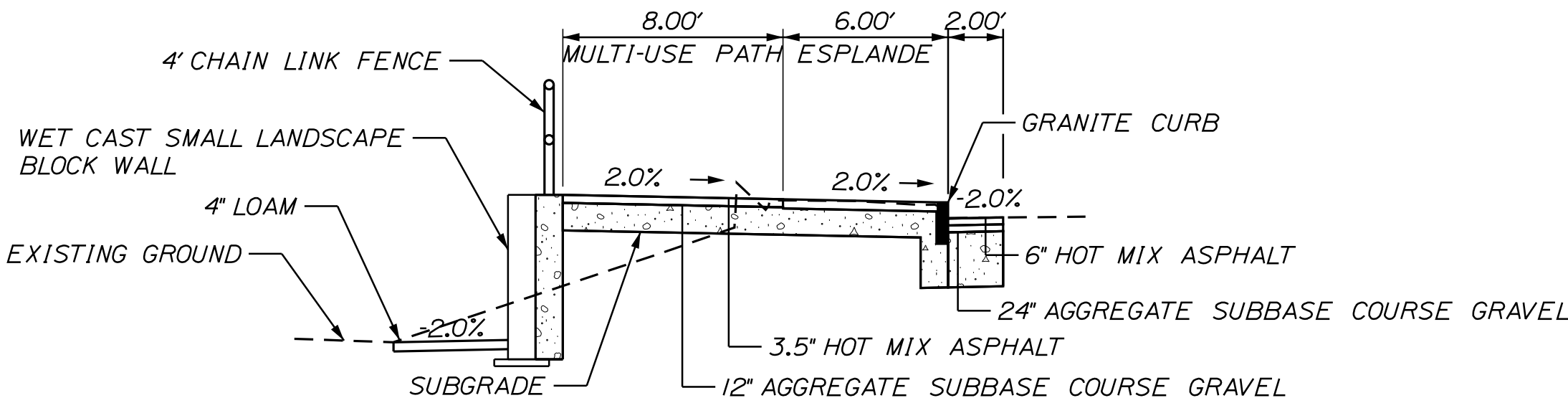
SHEET NUMBER	1
OF 42	

WIN 18858.00 HPP-1885(800)



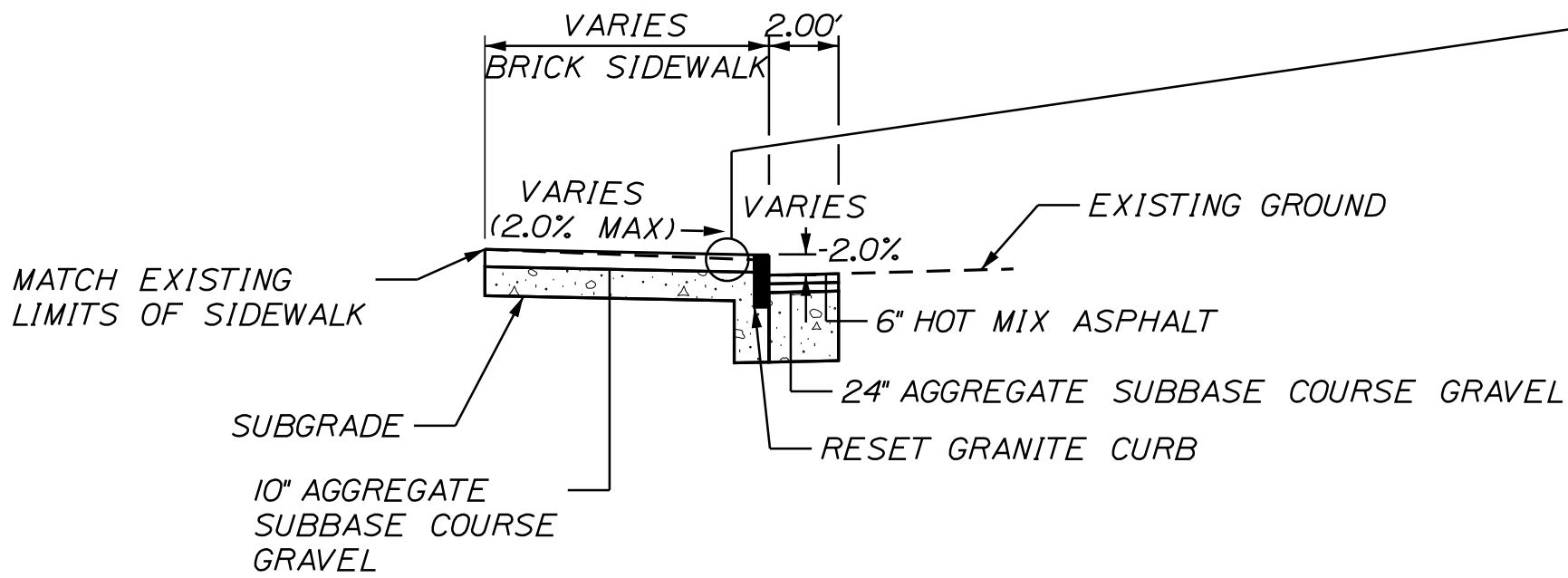
AGGREGATE SUBBASE COURSE GRAVEL
10'-12' MULTI-USE PATH
37.04 - 44.44 CY/100 LF
STATION TO STATION
100+00 TO 113+79.00

MAINLINE MULTI-USE PATH
FULL CONSTRUCTION
STA. 100+37.00 TO STA. 113+79.00

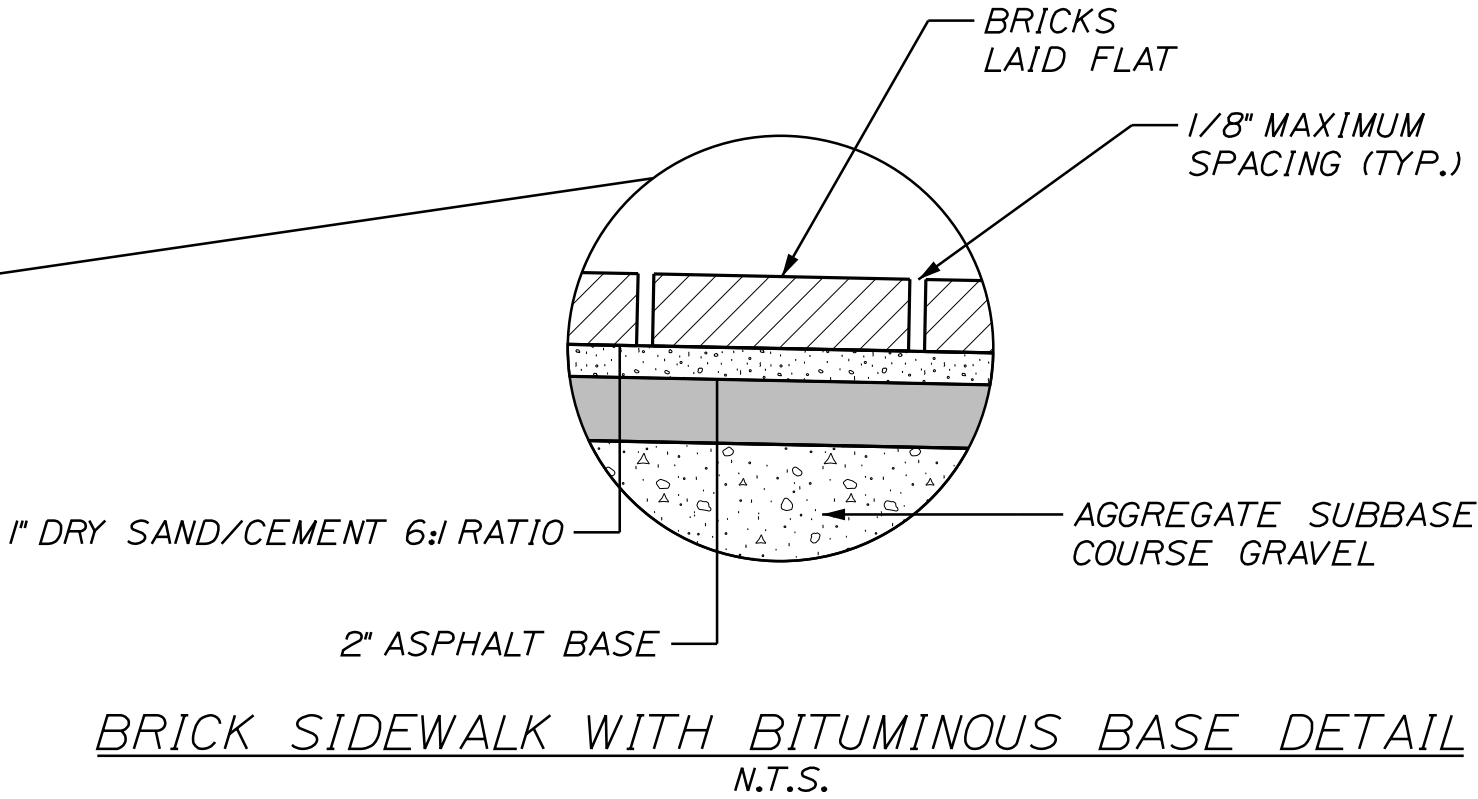


AGGREGATE SUBBASE COURSE GRAVEL
8' MULTI-USE PATH W/ESPLANDE
77.55 CY/100 LF
STATION TO STATION
200+16.00 TO 203+07.00

PENOBSCOT STREET MULTI-USE PATH
FULL CONSTRUCTION
STA. 200+16.00 TO STA. 203+07.00



CENTER STREET SIDEWALK
FULL CONSTRUCTION
STA. 300+16.47 TO STA. 304+08.14



BRICK SIDEWALK WITH BITUMINOUS BASE DETAIL
N.T.S.

- NOTES:**
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
 2. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 4" LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
 3. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

BREWER RIVERWALK ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	14	EA
201.24	REMOVING STUMP	14	EA
202.08	REMOVING BUILDING NO.1	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	22	CY
203.20	COMMON EXCAVATION	1660	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY	140	CY
304.10	AGGREGATE BASE COURSE - GRAVEL	1310	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	220	T
403.209	HOT MIX ASPHALT 9.5 MM (INCIDENTALS)	150	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	270	T
409.15	BITUMINOUS TACK COAT - APPLIED	70	G
502.21	STRUCTURAL CONCRETE, ABUTMENTS, AND RETAINING WALLS	10	CY
502.2356	MISCELLANEOUS CONCRETE, BENCH PAD	2	CY
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	1800	LB
503.13	REINFORCING STEEL, PLACING	1800	LB
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
524.30	TEMPORARY STRUCTURAL SUPPORT (BRIDGE)	2	EA
524.30	TEMPORARY STRUCTURAL SUPPORT (EXISTING SLOPE)	2	EA
603.15	12" CULVERT PIPE OPTION I	20	LF
603.179	18" CULVERT PIPE OPTION III	36	LF
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1	EA
604.245	CATCH BASIN TYPE F4-C	1	EA
607.16	CHAIN LINK FENCE 4'	220	LF
607.17	CHAIN LINK FENCE 6'	270	LF
607.191	CHAIN LINK FENCE - 9'	44	LF
607.194	CHAIN LINK FENCE - 12'	42	LF
607.22	CEDAR RAIL FENCE	860	LF
607.2311	CHAIN FENCE GATE 4' X 4' OPENING	3	EA
607.2326	CHAIN FENCE GATE 6' X 14' OPENING	1	EA
607.34	BRACING ASSEMBLY CHAIN LINK FENCE	10	EA
607.39	PEDESTRIAN FENCE	270	LF
608.15	BRICK SIDEWALK WITH BITUMINOUS BASE	740	SY
608.26	CURB RAMP DETECTABLE WARNING FIELD	80	SF
609.11	VERTICAL CURB TYPE I	90	LF
609.238	TERMINAL CURB TYPE I - 8'	15	EA
609.2381	TERMINAL CURB TYPE I - 8' CIRCULAR	2	EA
609.31	CURB TYPE 3	18	LF
609.38	RESET CURB TYPE I	1130	LF
610.08	PLAIN RIPRAP	47	CY
613.319	EROSION CONTROL BLANKET	54	SY
615.07	LOAM	270	CY
615.086	LOAM/COMPOST BLANKET	300	CY
618.13	SEEDING METHOD NUMBER I	22	UN
619.12	MULCH	22	UN

BREWER RIVERWALK ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
620.58	EROSION CONTROL GEOTEXTILE	95	SY
621.032	EVERGREEN TREE GR. C 4'-5' B&B	2	EA
621.039	EVERGREEN TREES GR. C 5'-6' B&B	2	EA
621.045	EVERGREEN TREES GR. C 6'-8' B&B	2	EA
621.122	SMALL DECID. TREE GR. C 5'-6' B&B/CONT.	6	EA
621.145	SMALL DECID. TREE GR. A 2"-2 1/2"	3	EA
621.146	SMALL DECID. TREE GR. C 2"-2 1/2"	3	EA
621.202	MEDIUM DECID. TREE GR. B 2"-2 1/2" B&B	9	EA
621.2021	MEDIUM DECID. TREE GR. B 2"-2 1/2" CLUMP/MS	4	EA
621.203	MEDIUM DECID. TREE GR. C 2"-2 1/2" B&B	3	EA
621.273	LARGE DECID. TREE GR. B 2"-2 1/2"	9	EA
621.39	EVERGREEN SHRUB GR. B 15'-1'-8" CONT.	6	EA
621.493	BROADLEAF EVERGREEN GR. B 2"-2 1/2" CONT.	9	EA
621.51	HYBRID RHODODENDRON (15'-18')	60	EA
621.53	DECIDUOUS SHRUBS GR. B 8"-12" CONT.	60	EA
621.5351	DECIDUOUS SHRUBS GR. A 15'-18" CONT.	220	EA
621.54	DECIDUOUS SHRUBS GR. A 18"-24" CONT.	128	EA
621.546	DECIDUOUS SHRUBS GR. C 2"-2 1/2" CONT.	84	EA
621.558	DECIDUOUS SHRUBS GR. A 4'-5' CONT.	15	EA
621.711	HERBACEOUS PERENNIALS GROUP A 1 GAL. CONT.	350	EA
626.32	24 INCH DIAMETER FOUNDATION	8	EA
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	410	SF
629.05	HAND LABOR - STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	26	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	26	HR
634.162	PARK LIGHTING SYSTEM	1	LS
634.2041	LUMINAIRES	8	EA
634.210	CONVENTIONAL LIGHT STANDARD	8	EA
639.18	FIELD OFFICE TYPE A	1	EA
641.12	BENCH	6	EA
641.34	TRASH RECEPTACLE	4	EA
641.93	PICNIC SHELTER	1	EA
645.292	REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKING ASSEMBLY SIGNS, TYPE II	4	SF
652.312	BARRICADE TYPE III	10	EA
652.33	DRUM	50	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGN	210	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	120	CD
652.38	FLAGGER	610	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
673.10	WET CAST SMALL LANDSCAPE BLOCK WALL	3300	SF
841.49	BOLLARDS - COLLAPSIBLE	2	EA
910.03	SPECIAL WORK - WI-FI SYSTEM	1	LS
910.03	SPECIAL WORK - SECURITY CAMERA SYSTEM	1	LS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
HPP-1885(800)

WIN
18858.00
HIGHWAY PLANS

BREWER
BREWER RIVERWALK
ESTIMATED QUANTITIES &
EARTHWORK SUMMARY

SHEET NUMBER

3

OF 42

PROJ. MANAGER	CATHERINE RAND	BY	DATE
DESIGN-DETAILED	I. WOLFEI	I. WOLFEI	3/2018
CHECKED-REVIEWED	E. WALTON	J. WERTWORTH	3/2018
DESIGN-DETAILED3			
DESIGN-DETAILED2			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

Date:4/2/2018

Username:

Division: HIGHWAY

Filename: ... \MSTAN004_GeneralNotes.dgn

GENERAL NOTES

1. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
2. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED.THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.
3. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER,OR AS DIRECTED BY THE RESIDENT.
4. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON FINAL COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.
5. THE CONTRACTOR SHALL PLACE SUITABLE EXISTING OR OTHER MATERIAL ACCEPTABLE TO THE RESIDENT ON ALL PAVEMENT EDGES TO ALLOW A DROP OFF NO GREATER THAN THE SURFACE PAVEMENT THICKNESS. THE MATERIAL SHALL BE GRADED TO MATCH EXISTING IN-SLOPE OR AS DIRECTED BY THE RESIDENT BEFORE SURFACE IS PLACED.THE CONTRACTOR WILL BE PAID UNDER APPROPRIATE EQUIPMENT RENTAL ITEMS.BORROW IS NOT AUTHORIZED UNTIL ALL ACCEPTABLE WASTE MATERIAL HAS BEEN UTILIZED.SEED AND MULCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE.
6. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.
7. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
8. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS,IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19 AND WILL PAID FOR AS GRANULAR BORROW.
9. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL.
10. COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 3" HOT MIX ASPHALT AND 11" AGGREGATE SUBBASE COURSE GRAVEL.
11. ALL PAVED WALKS TO BE CONSTRUCTED WITH 12" AGGREGATE SUBBASE COURSE-GRAVEL AND 2" HOT MIX ASPHALT UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
12. GRANULAR BORROW USED UNDER PIPES SHALL MEET THE REQUIREMENTS FOR MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.
13. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
14. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
15. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES.
16. FLAT TOPS FOR CATCH BASINS ARE NOT ALLOWED UNLESS NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
17. CHAIN LINK FENCE 6' FEET OR TALLER SHALL HAVE BRACING AS SPECIFIED IN STANDARD SPECIFICATION 607.05.
18. IN AREAS WHERE CURB TYPE 1 WILL BE RESET,THE EXISTING CURB SUITABLE FOR USE AS TERMINAL ENDS SHALL BE CUT IF NECESSARY AND UTILIZED AS SUCH AND PAID FOR UNDER ITEM 609.38 (RESET CURB TYPE 1).
19. BACKING UP BITUMINOUS OR CONCRETE SLIPFORM CURB IS INCIDENTAL TO THE CURB ITEMS. IN AREAS WHERE NEW BITUMINOUS OR CONCRETE SLIPFORM CURB IS DESIGNATED TO REPLACE EXISTING,THE REMOVAL OF THE OLD BITUMINOUS OR CONCRETE SLIPFORM CURB SHALL BE INCIDENTAL TO THE NEW CURB. IF CALLED FOR ON THE PLANS OR DIRECTED BY THE RESIDENT,LOAM OR DIRTY BORROW WILL BE PAID FOR SEPARATELY.
20. LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
21. UNLESS OTHERWISE NOTED SEEDING METHOD NO.1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS.
22. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS.

23. 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.
24. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION,DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
25. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
26. BENCHES (ITEM 641.12) SHALL BE LOCATED AS DIRECTED BY THE RESIDENT.
27. PROJECT INFORMATION REFERRED TO BELOW MAY BE ACCESSED AT THE FOLLOWING MAINE.DOT WEB ADDRESS:
HTTP://WWW.MAINE.GOV/MDOT/COMPREHENSIVE-LIST-PROJECTS/PROJECT-INFORMATION.PHP.
28. THE EXISTING BRIDGE PLANS MAY BE ACCESSED AT THE MAINEDOT WEB ADDRESS. THE PLANS ARE REPRODUCTIONS OF THE ORIGINAL DRAWINGS AS PREPARED FOR THE CONSTRUCTION OF THE BRIDGE. IT IS VERY UNLIKELY THAT THE PLANS WILL SHOW ANY CONSTRUCTION FIELD CHANGES OR ANY ALTERATIONS WHICH MAY HAVE BEEN MADE TO THE BRIDGE DURING ITS LIFE SPAN.
29. THE CONTRACTOR SHALL SUBMIT A CONCRETE DEMOLITION AND TEMPORARY SHORING PLANS TO THE RESIDENT AT LEAST 10 BUSINESS DAYS PRIOR TO THE START OF DEMOLITION WORK. THE CONCRETE DEMOLITION PLAN SHALL OUTLINE THE METHODS AND EQUIPMENT TO BE USED TO REMOVE AND DISPOSE OF ALL MATERIALS INCLUDED IN THE EXISTING BRIDGE.THE TEMPORARY SHORING PLAN SHALL OUTLINE THE METHODS TO BE USED FOR TEMPORARY SHORING OF THE BRIDGE STRUCTURE DURING REMOVAL AND CONSTRUCTION. NO WORK RELATED TO THE REMOVAL OF THE CONCRETE SHALL BE UNDERTAKEN BY THE CONTRACTOR UNTIL MAINEDOT HAS REVIEWED THE CONCRETE DEMOLITION AND TEMPORARY SHORING PLANS FOR APPROPRIATENESS AND COMPLETENESS. PAYMENT FOR ALL WORK NECESSARY FOR DEVELOPING, SUBMITTING, AND FINALIZING THE DEMOLITION AND TEMPORARY SHORING PLANS WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE REMOVAL AND TEMPORARY SHORING PAY ITEMS.
30. UNDETERMINED LOCATIONS SHALL BE DETERMINED BY THE RESIDENT.

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	1,488
EARTH FROM DRIVES, OLD ROAD, ETC.	114
GRUBBING IN FILL	28
CULVERT INLET AND OUTLET DITCHES	18
TOTAL COMMON EXCAVATION (for estimate)	1,648

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	791
FILL FOR DRIVES	19
GRUBBING IN FILL	28
TOTAL FILL	838

ROCK EXCAVATION FOR ESTIMATE

TOTAL ROCK EXCAVATION	0
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AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION	1,648
DEDUCTIONS:	
GRUBBING IN CUT	493
GRUBBING IN FILL	28
(2) TOTAL DEDUCTIONS	521
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)	1,128
RIPRAP EXCAVATION	0
TOTAL AVAILABLE NON-ROCK EXCAVATION	1,128

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)	28
GRUBBING IN CUT	493
GRUBBING IN FILL	28
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)	28
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)	0

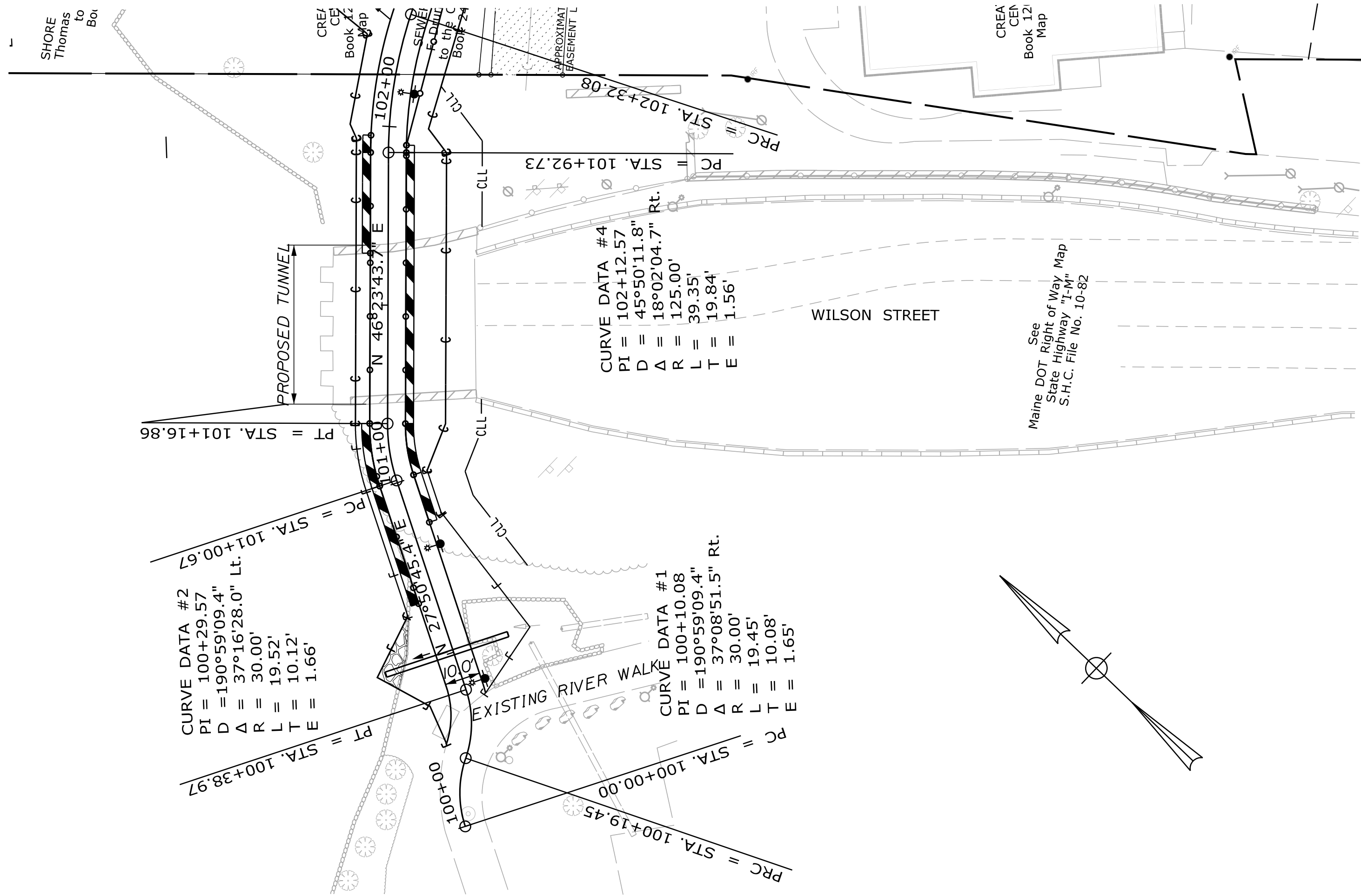
COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW =	0 x 1.00 =	0
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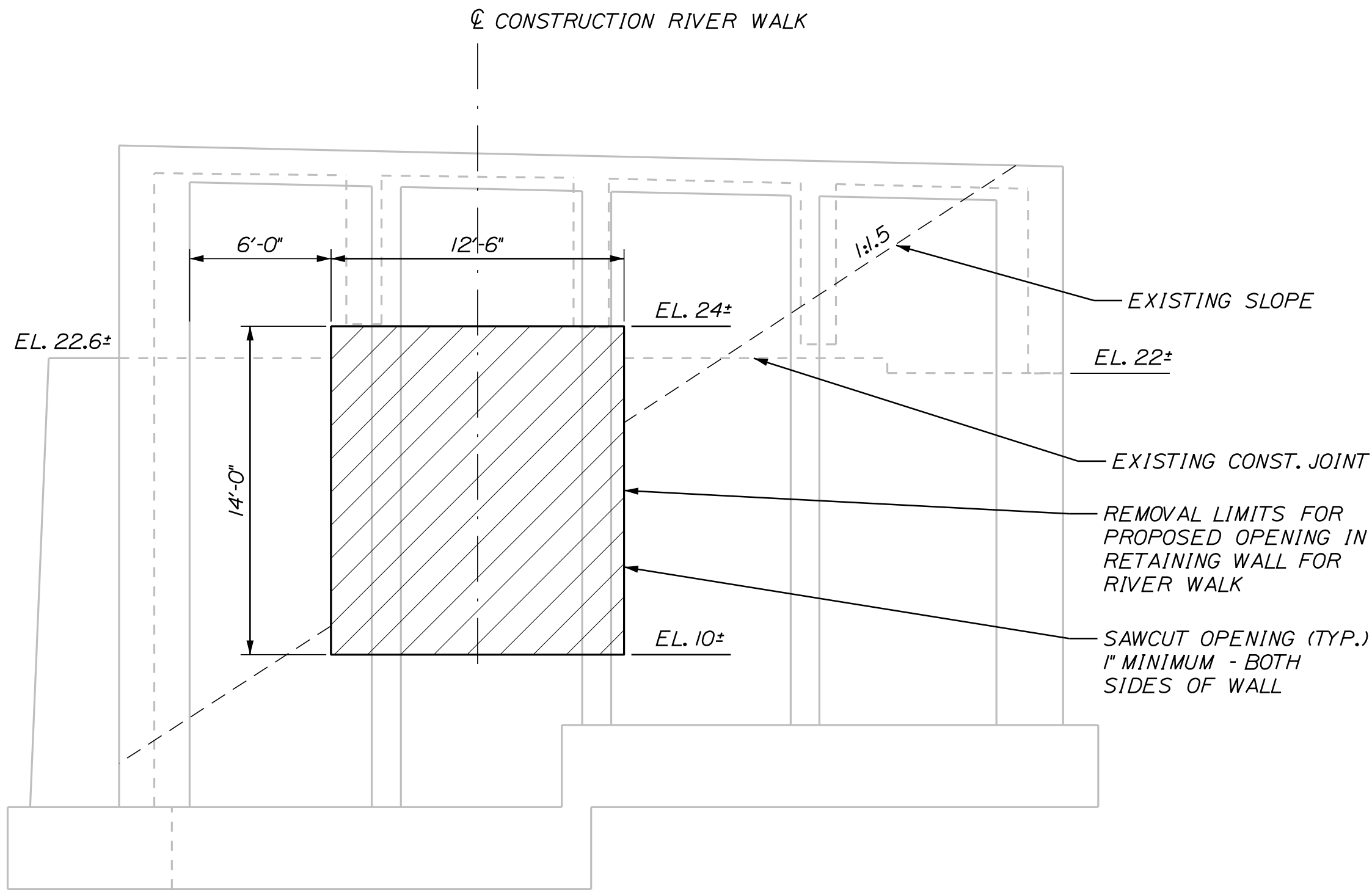
COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL					<u>838</u>
TOTAL AVAIL. NON-ROCK EXCAV.		<u>1,128</u>	x 0.90	=	<u>1,015</u>
(4)TOTAL AVAILABLE EXCAVATION					<u>1,015</u>
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION					<u>0</u>

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	HPP-1885(800)		WIN 18858.00		HIGHWAY PLANS	
	SIGNATURE		P.E. NUMBER		DATE	
BREWER BREWER RIVERWALK		PROJ. MANAGER CATHERINE RAND	BY	DATE	GENERAL NOTES	
		CHECKED-DETAILED T. WOLFEL	T. WOLFEL	3/2018		
		DESIGNED-REVIEWED K. WOOD	J. WENTWORTH	3/2018		
		DESIGNS DETAILER				
		REVISIONS 1				
SHEET NUMBER		REVISIONS 2			4	
		REVISIONS 3				
		REVISIONS 4				
		FIELD CHANGES			OF 42	



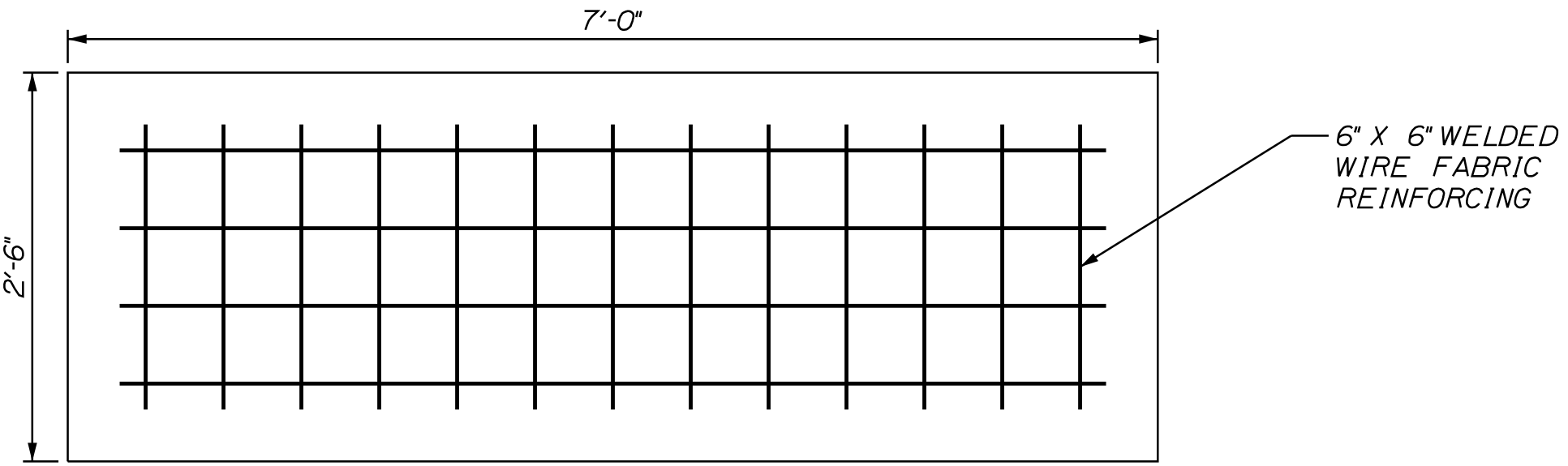
PLAN



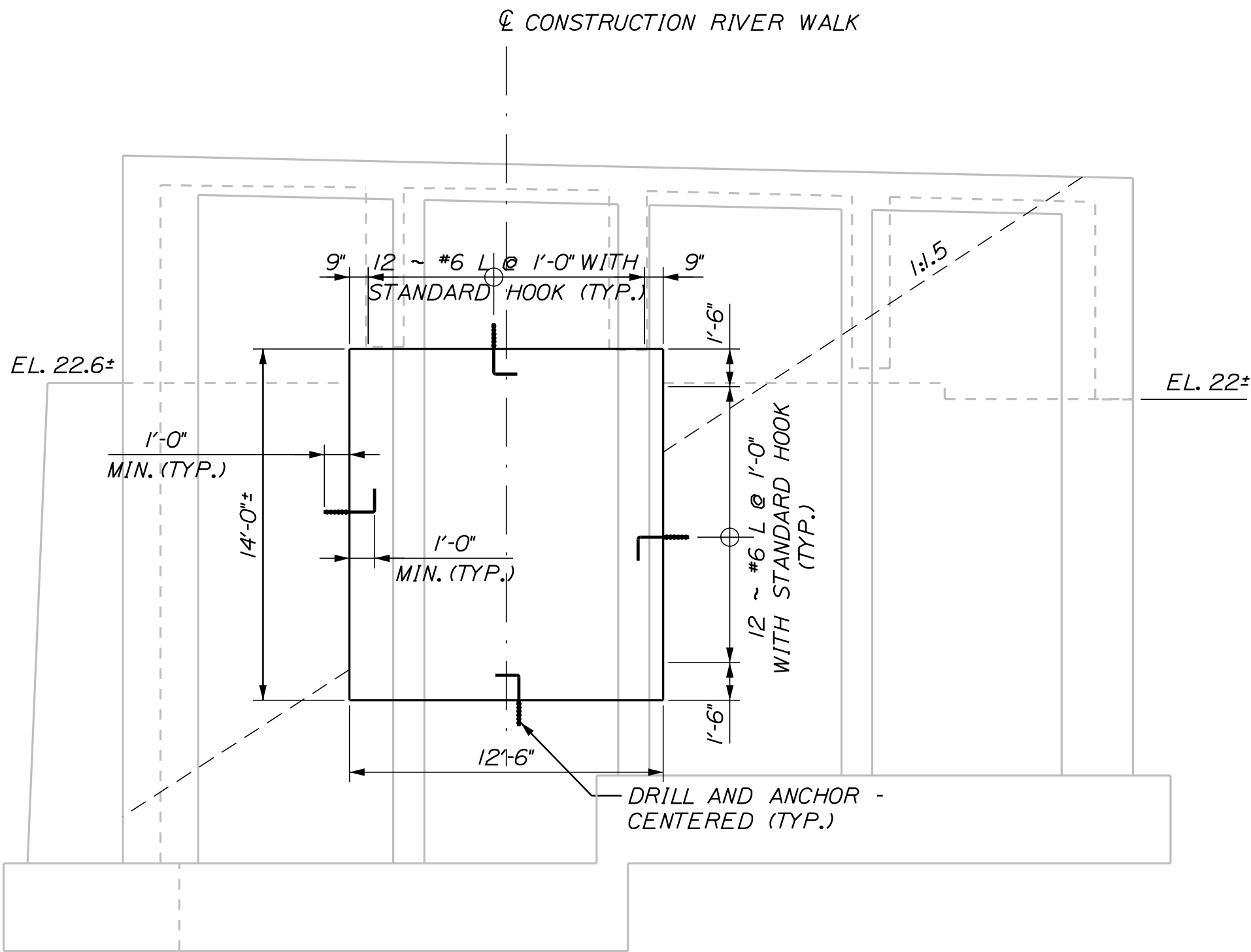
RETAINING WALL DEMOLITION LIMITS
(PILES NOT SHOWN FOR CLARITY)

NOTES:

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY STRUCTURAL SUPPORTS UNDER THE EXISTING T-BEAMS DURING RETAINING WALL DEMOLITION AND CONSTRUCTION PAID FOR UNDER ITEM NO. 524.30 TEMPORARY STRUCTURAL SUPPORT.
2. ANY TEMPORARY SHORING NEEDED WITHIN THE PROPOSED TUNNEL LIMITS DURING CONSTRUCTION SHALL BE INCIDENTAL TO ITEM NO. 524.30 TEMPORARY STRUCTURAL SUPPORT.
3. DRILLING AND ANCHORING REINFORCING BARS INTO EXISTING CONCRETE RETAINING WALL SHALL BE PAID FOR UNDER ITEM NO. 503.13 REINFORCING STEEL, PLACING. ANCHORING MATERIAL SHALL BE AN APPROVED PRODCUT FROM MAINEDOT QUALIFIED PRODUCTS LIST.
4. REINFORCING STEEL SHALL HAVE 2 INCHES MINIMUM COVER UNLESS OTHERWISE NOTED.
5. ADJUST REINFORCING STEEL TO FIT AS NEEDED IN A MANNER APPROVED BY THE RESIDENT. ANY CUTTING AND ADJUSTMENT OF REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM NO. 503.13 REINFORCING STEEL, PLACING.
6. SAWCUTS FOR RETAINING WALL DEMOLITION SHALL BE INCIDENTAL TO CONCRETE REMOVAL ITEM 202.12.
7. THE AREA THE CONTRACTOR MAY NEED TO ACCESS FOR TUNNEL DEMOLITION AND CONSTRUCTION ACTIVITIES MAY BE CONSIDERED A CONFINED SPACE IN ACCORDANCE WITH OSHA STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW ALL REQUIRED OSHA STANDARDS FOR THIS AREA DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. PAYMENT FOR ALL NECESSARY MEASURES TO ABIDE BY OSHA STANDARDS FOR THIS WORK SHALL BE INCIDENTAL TO THE RELATED CONSTRUCTION ITEMS.



BENCH CONCRETE PAD
(84" LONG BY 30" WIDE BY 3" DEEP)
N.T.S.



RETAINING WALL REINFORCING
(PILES NOT SHOWN FOR CLARITY)

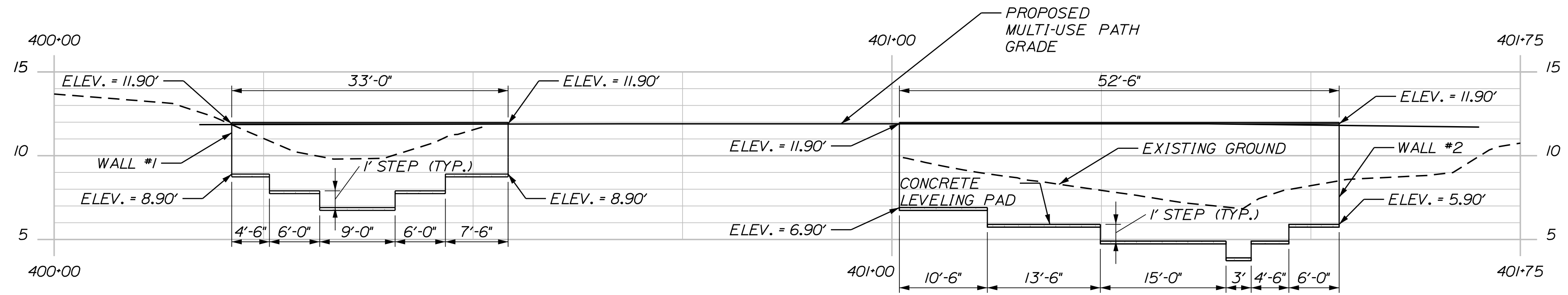
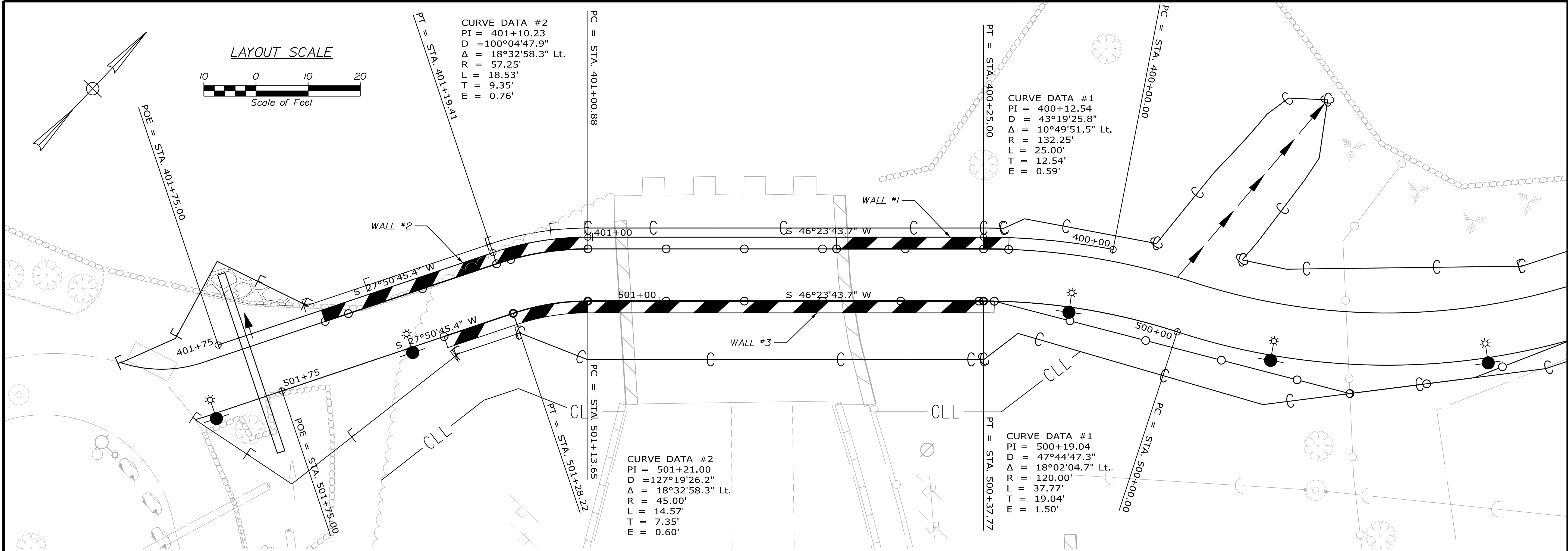
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
HPP-1885(800)		WIN 18858.00	
HIGHWAY PLANS		SHEET NUMBER	
5		OF 42	
PROJECT MANAGER CATHERINE RAND		DESIGN-DETAILED E. WALTON	
CHECKED-REVIEWED K. WOOD		DESIGN-DETAILED J. WENTWORTH	
DESIGN-DETAILED		DESIGN-DETAILED	
REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	
DATE 3/2018		DATE 3/2018	
BY T. WOLFEL		BY J. WENTWORTH	
SIGNATURE		SIGNATURE	
P.E. NUMBER		P.E. NUMBER	
DATE		DATE	

Date:4/2/2018

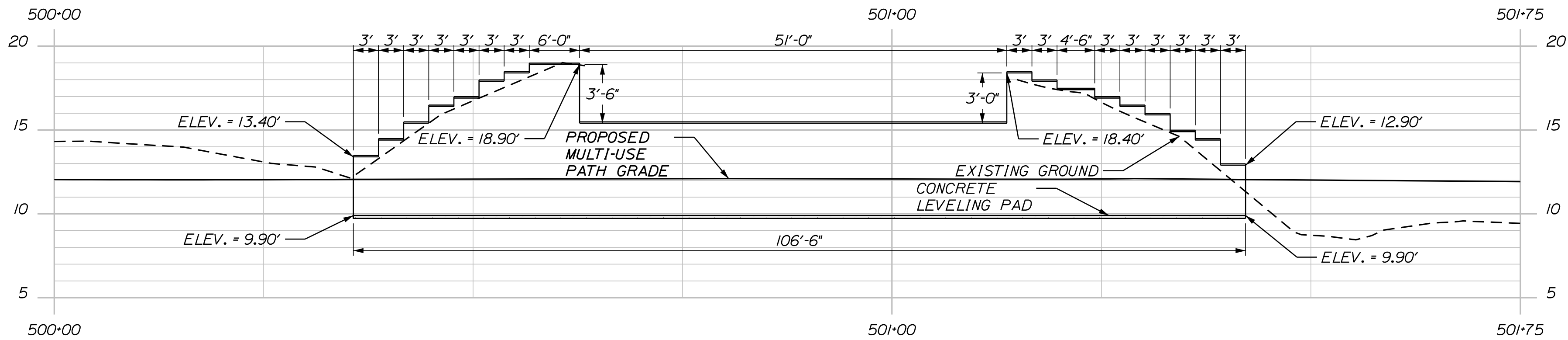
Username:

Division: HIGHWAY

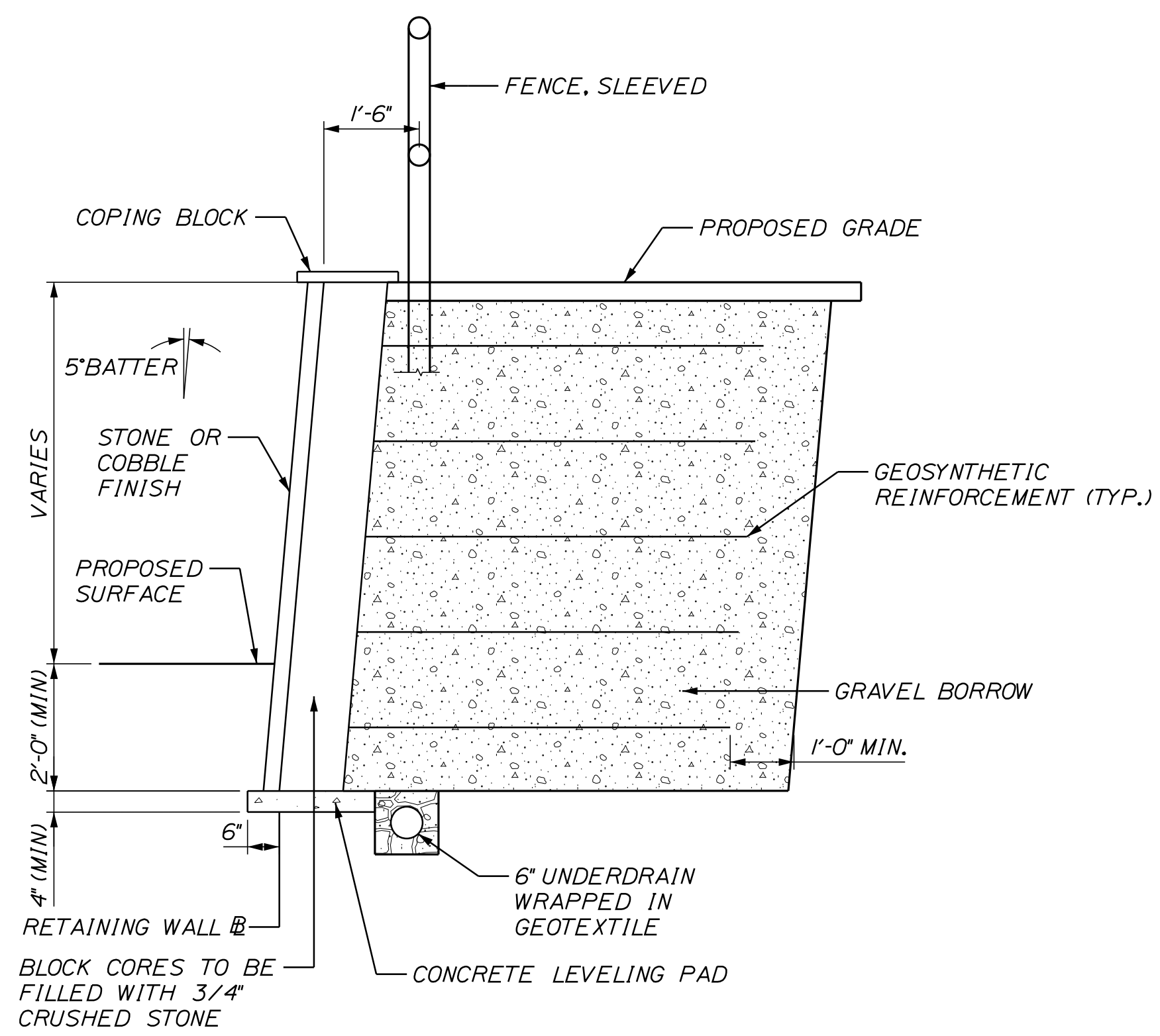
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WALL 1 & 2 PROFILE
(SCALE: 1"=10' HORIZONTAL, 1"=5' VERTICAL)



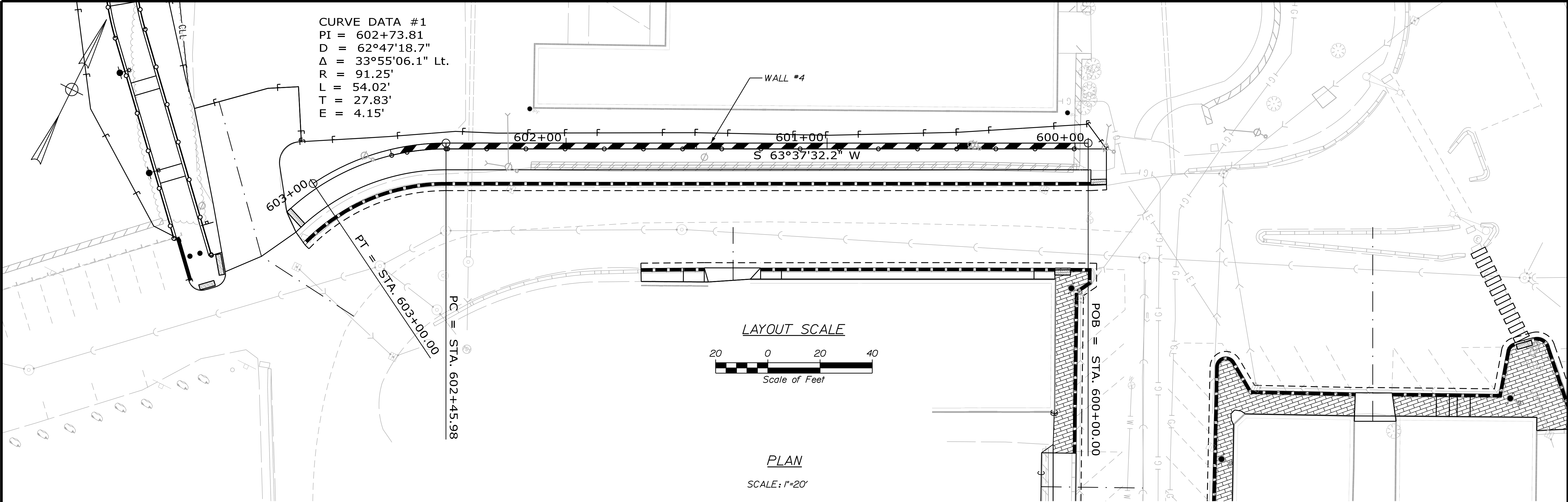
WALL 3 PROFILE
(SCALE: 1"=10' HORIZONTAL, 1"=5' VERTICAL)



TYPICAL RETAINING WALL
(N.T.S.)

NOTES:
1. FOR RETAINING WALL NOTES SEE SHEET 8.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		HPP-1885(800)		WIN 18858.00		HIGHWAY PLANS	
DATE		SIGNATURE		P.E. NUMBER		DATE			
BY									
PROJ. MANAGER CATHERINE RAND		DESIGNED-Detailed T. WOLFEL		DESIGNED-Detailed K. WOOD		DESIGNED-Detailed J. WENTWORTH			
CHECKED-Reviewed T. WOLFEL		DESIGNED-Detailed K. WOOD		DESIGNED-Detailed J. WENTWORTH					
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4			
FIELD CHANGES									
BREWER		BREWER RIVERWALK		SPECIAL DETAILS -		RETAINING WALL 1, 2, & 3			
SHEET NUMBER		7							
		OF 42							



NOTES:

1. THE CONTRACTOR SHALL PROVIDE A WET CAST SMALL LANDSCAPE BLOCK WALL IN ACCORDANCE WITH THE STANDARD SPECIFICATION 673. THE WALL DESIGN SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION AND SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER. THE DESIGN COMPUTATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.

2. BACKFILL AND FOUNDATION SOIL PARAMETERS FOR USE IN THE SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION 673.

3. THE APPLIED FACTORED BEARING PRESSURE FOR THE PROPOSED WALL SHALL NOT EXCEED 3.00 KSF AT THE STRENGTH LIMIT STATE.

4. ALL BLOCKS AT THE ENDS OF THE WALLS 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.

5. PIPED DRAINAGE SHALL BE INCLUDED IN THE DESIGN OF THE WALLS. WALL DRAINAGE SHALL BE INCIDENTAL TO CONSTRUCTION OF THE WALL.

6. A MINIMUM EMBEDMENT DEPTH OF 2 FEET BELOW EXISTING GRADE IS REQUIRED IN THE DESIGN AND CONSTRUCTION OF THE WET CAST SMALL LANDSCAPE BLOCK WALL, AND DOES NOT INCLUDE THE DEPTH OF THE CONCRETE LEVELING BLOCK.

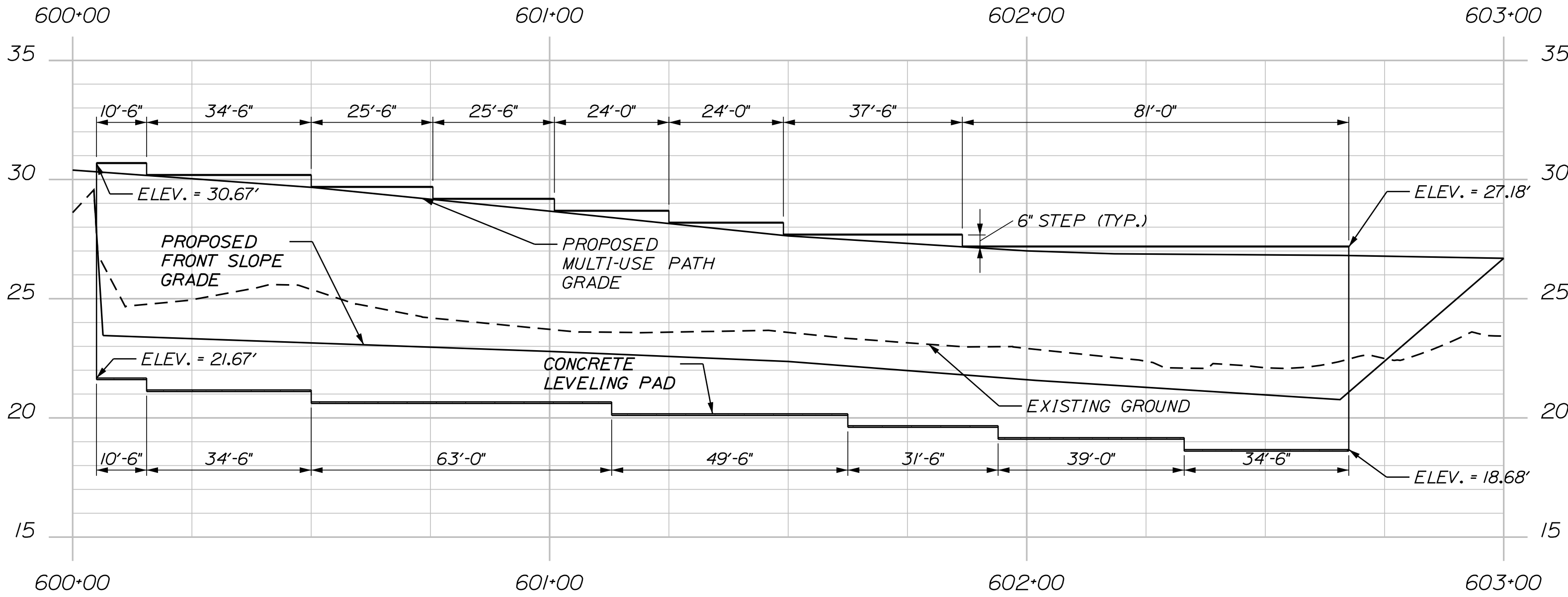
7. THE SURFACE AREA QUANTITY OF THE PROPOSED WALL WILL BE APPROVED BY THE RESIDENT ENGINEER.

8. LAYOUT AND WALL STEPS SHOWN ARE BASED ON THE BLOCK SIZE OF 1'-6" LONG AND 6" HIGH.

9. A PEDESTRIAN FENCE SHALL BE INSTALLED ALONG THE TOP OF THE WALL #4. FENCE SHALL BE PAID UNDER ITEM NO. 607.36 PEDESTRIAN FENCE.

10. THE MINIMUM LIMIT OF EXCAVATION AND GRAVEL BORROW BACKFILL SHALL BE 1'-0" BEHIND THE REAR FACE OF THE WALL BLOCKS OR GEOSYNTHETIC REINFORCEMENT AS APPLICABLE. EXCAVATION AND GRAVEL BACKFILL IS INCIDENTAL TO THE CONSTRUCTION OF THE WALL.

11. ALL FENCE POSTS SHALL BE INSTALLED IN SLEEVES EMBEDDED IN THE FILL MATERIALS. THE SLEEVES SHALL BE INSTALLED DURING WALL CONSTRUCTION IN A MANNER THAT DOES NOT DAMAGE THE WALL REINFORCING. FOLLOWING THE INSTALLATION OF THE FENCE POSTS THE ANNULAR SPACE BETWEEN THE POST AND THE SLEEVE SHALL BE FILLED WITH COMPACTED SAND OR GRAVEL. ALL WORK ASSOCIATED WITH THE FENCE POST SLEEVES SHALL BE INCIDENTAL TO THE RELATED WALL ITEM.



WALL 4 PROFILE

(SCALE: 1"=20' HORIZONTAL, 1"=4' VERTICAL)

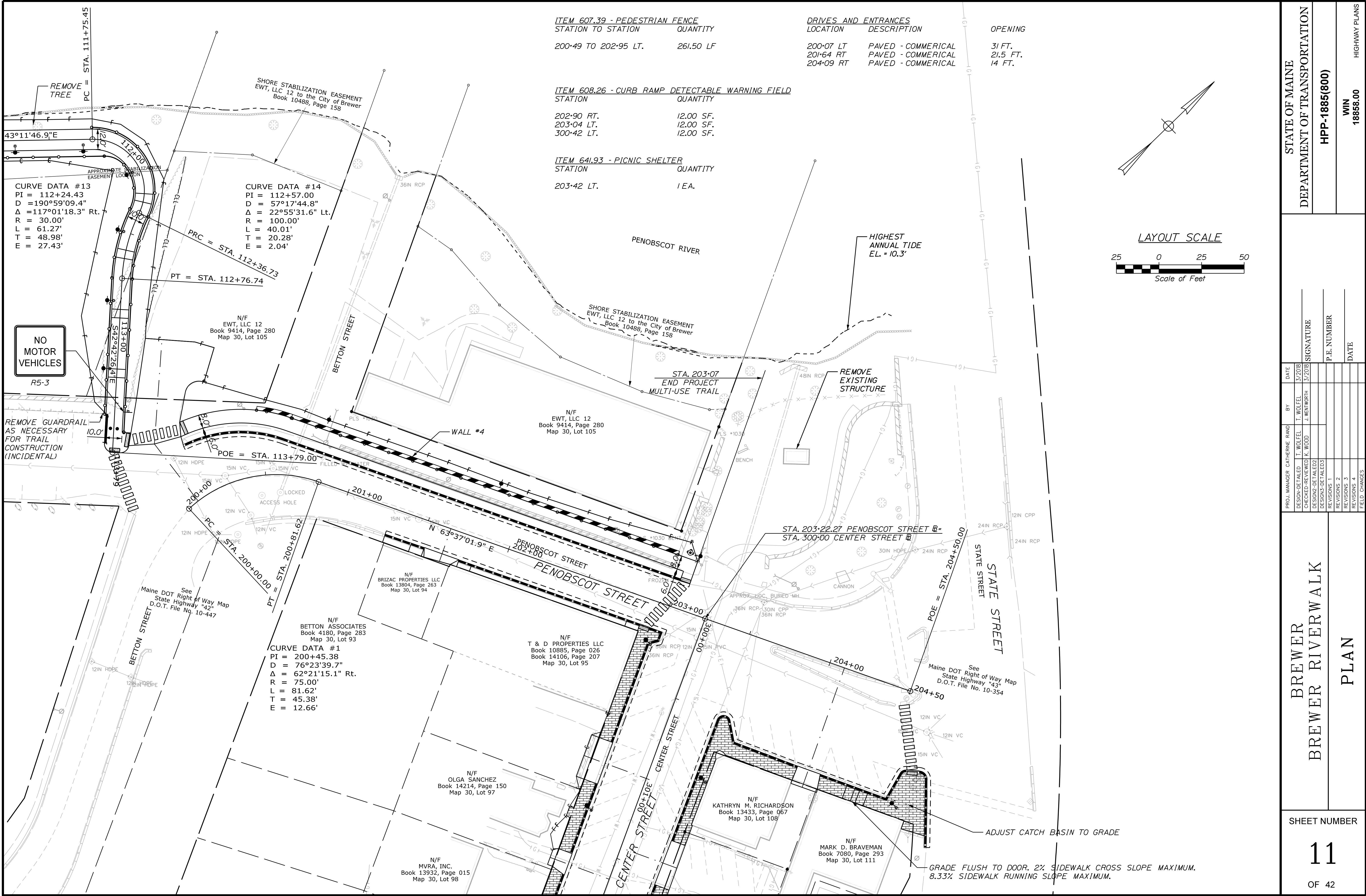
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DATE		BY		SIGNATURE		P.E. NUMBER		DATE	
3/2018		T. WOLFEL							
3/2018		J. WENTWORTH							
DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED	
CHECKED-REVIEWED		CHECKED-REVIEWED		CHECKED-REVIEWED		CHECKED-REVIEWED		CHECKED-REVIEWED	
DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED	
REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3		REVISIONS 3		REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	
PROJECT MANAGER		PROJECT MANAGER		PROJECT MANAGER		PROJECT MANAGER		PROJECT MANAGER	
CATHERINE RAND		CATHERINE RAND		CATHERINE RAND		CATHERINE RAND		CATHERINE RAND	
BREWER RIVERWALK		BREWER RIVERWALK		BREWER RIVERWALK		BREWER RIVERWALK		BREWER RIVERWALK	
SPECIAL DETAILS -		SPECIAL DETAILS -		SPECIAL DETAILS -		SPECIAL DETAILS -		SPECIAL DETAILS -	
RETAINING WALL 4		RETAINING WALL 4		RETAINING WALL 4		RETAINING WALL 4		RETAINING WALL 4	
SHEET NUMBER		SHEET NUMBER		SHEET NUMBER		SHEET NUMBER		SHEET NUMBER	
8		8		8		8		8	
OF 42		OF 42		OF 42		OF 42		OF 42	

Date: 4/2/2018

Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\011_HDPlan3.dgn

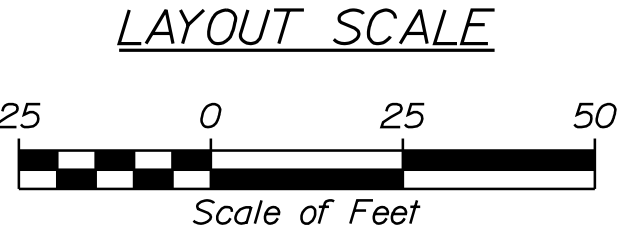
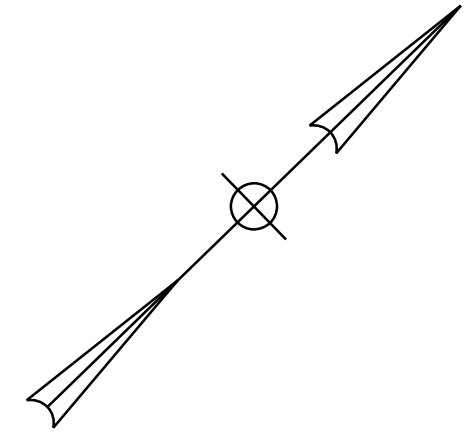


ITEM 607.39 - PEDESTRIAN FENCE	
STATION TO STATION	QUANTITY
200+49 TO 202+95 LT.	261.50 LF

DRIVES AND ENTRANCES		OPENING
LOCATION	DESCRIPTION	
200+07 LT	PAVED - COMMERICAL	31 FT.
201+64 RT	PAVED - COMMERICAL	21.5 FT.
204+09 RT	PAVED - COMMERICAL	14 FT.

ITEM 608.26 - CURB RAMP DETECTABLE WARNING FIELD	
STATION	QUANTITY
202+90 RT.	12.00 SF.
203+04 LT.	12.00 SF.
300+42 LT.	12.00 SF.

ITEM 641.93 - PICNIC SHELTER	
STATION	QUANTITY
203+42 LT.	1 EA.

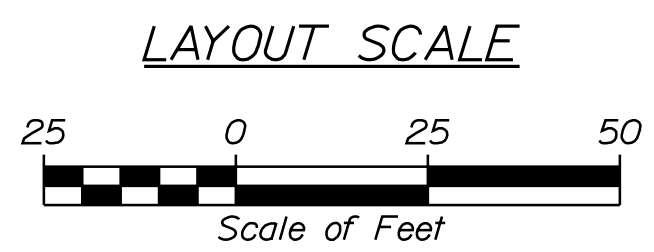


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
HPP-1885(800)	
WIN	HIGHWAY PLANS
18858.00	

PROJ. MANAGER CATHERINE RAND	BY T. WOLFEL	DATE 3/2018
CHECKED-REVIEWED K. WOOD	J. WENTWORTH	3/2018
DESIGNS-DETAILED		SIGNATURE
DESIGNS-1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BREWER RIVERWALK	
PLAN	

SHEET NUMBER	
11	
OF 42	



STA. 203+22.27 PENOBSCOT STREET  STA. 300+00 CENTER STREET 

19'

30IN HDPE

24IN RCP

CANNON

BURIED - MH

C/P RCP

POE = STA. 204+50.00

STATE STREET

STATE STREET

204+00

204+50.00

See Maine DOT Right of Way State Highway "43" D.O.T. File No. 10-354

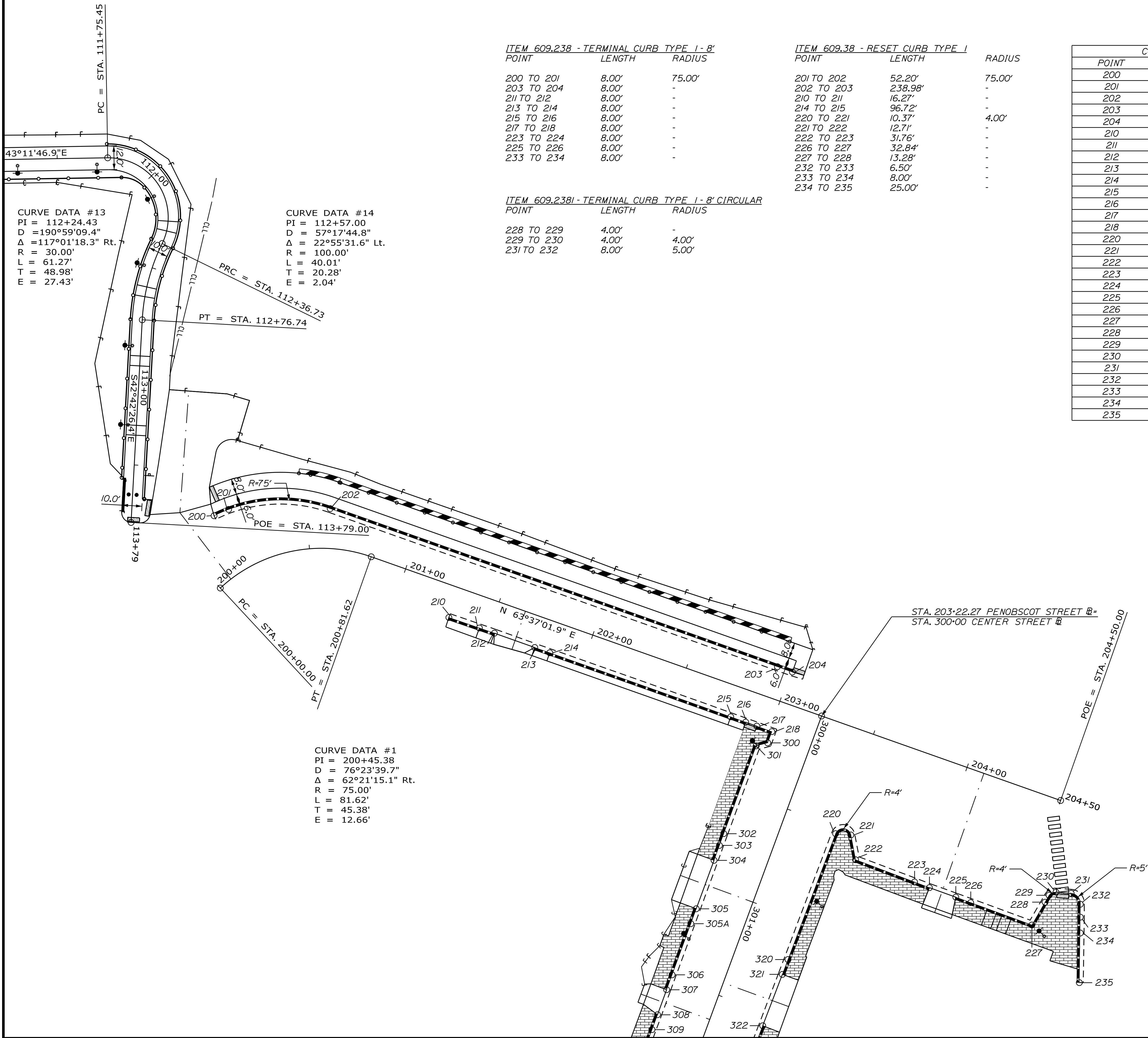
<u>ITEM 604.18 - ADJUSTING MANHOLE OR CATCH BASIN TO GRADE</u>		<u>DRIVES AND ENTRANCES</u>		
STATION	QUANTITY	LOCATION	DESCRIPTION	OPENING
204+72 RT.	1 EA.	301+00 RT	PAVED - COMMERCIAL	26 FT.
		301+43 LT	PAVED - COMMERCIAL	27.75 FT.
		301+63 RT	PAVED - COMMERCIAL	13.5 FT.
		302+06 RT	PAVED - COMMERCIAL	26.75 FT.
		303+58 LT	PAVED - COMMERCIAL	25.5 FT.
<u>ITEM 626.32 - 24 INCH DIAMETER FOUNDATION</u>		<u>ITEM 634.210 - CONVENTIONAL LIGHT STANDARD</u>		
STATION	QUANTITY	STATION	QUANTITY	
300+24 RT.	1 EA.	300+24 RT.	1 EA.	
300+89 LT.	1 EA.	300+89 LT.	1 EA.	
301+27 RT.	1 EA.	301+27 RT.	1 EA.	
301+88 LT.	1 EA.	301+88 LT.	1 EA.	
302+46 RT.	1 EA.	302+46 RT.	1 EA.	
302+96 LT.	1 EA.	302+96 LT.	1 EA.	
303+76 RT.	1 EA.	303+76 RT.	1 EA.	
CORNER OF PENOBSCOT STREET AND STATE STREET	1 EA.	CORNER OF PENOBSCOT STREET AND STATE STREET	1 EA.	
<u>ITEM 634.204I - LUMINAIRES</u>				
STATION	QUANTITY			
300+24 RT.	1 EA.			
300+89 LT.	1 EA.			
301+27 RT.	1 EA.			
301+88 LT.	1 EA.			
302+46 RT.	1 EA.			
302+96 LT.	1 EA.			
303+76 RT.	1 EA.			
CORNER OF PENOBSCOT STREET AND STATE STREET	1 EA.			

LAYOUT SCALE

25 0 25 50

Scale of Feet

[illegible]



ITEM 609.238 - TERMINAL CURB TYPE 1 - 8'

POINT	LENGTH	RADIUS
200 TO 201	8.00'	75.00'
203 TO 204	8.00'	-
211 TO 212	8.00'	-
213 TO 214	8.00'	-
215 TO 216	8.00'	-
217 TO 218	8.00'	-
223 TO 224	8.00'	-
225 TO 226	8.00'	-
233 TO 234	8.00'	-

ITEM 609.2381 - TERMINAL CURB TYPE 1 - 8' CIRCULAR

POINT	LENGTH	RADIUS
228 TO 229	4.00'	-
229 TO 230	4.00'	4.00'
231 TO 232	8.00'	5.00'

ITEM 609.38 - RESET CURB TYPE 1

POINT	LENGTH	RADIUS
201 TO 202	52.20'	75.00'
202 TO 203	238.98'	-
210 TO 211	16.27'	-
214 TO 215	96.72'	-
220 TO 221	10.37'	4.00'
221 TO 222	12.71'	-
222 TO 223	31.76'	-
226 TO 227	32.84'	-
227 TO 228	13.28'	-
232 TO 233	6.50'	-
233 TO 234	8.00'	-
234 TO 235	25.00'	-

CONTROL POINTS FOR CURBING - PENOBSCOT STREET

POINT	STATION	OFFSET	X-COORD	Y-COORD
200	200+16.00	31.25' LT.	1734122.629	473134.634
201	200+21.64	30.55' LT.	1734125.453	473142.115
202	200+59.53	20.10' LT.	1734160.78	473179.111
203	202+93.00	16.00' LT.	1734374.869	473285.305
204	203+01.00	16.00' LT.	1734382.035	473288.86
210	201+28.70	15.81' RT.	1734241.817	473183.801
211	201+44.96	15.67' RT.	1734256.327	473191.151
212	201+52.96	15.60' RT.	1734263.464	473194.766
213	201+74.52	15.64' RT.	1734282.798	473204.315
214	201+82.52	15.63' RT.	1734289.961	473207.878
215	202+79.24	15.67' RT.	1734376.62	473250.824
216	202+87.24	15.70' RT.	1734383.802	473254.349
217	202+93.24	15.71' RT.	1734389.179	473257.011
218	203+01.24	15.81' RT.	1734396.391	473260.473
220	203+48.71	53.56' RT.	1734455.687	473247.746
221	203+56.16	51.63' RT.	1734461.507	473252.786
222	203+62.57	62.61' RT.	1734472.128	473245.795
223	203+94.32	63.29' RT.	1734500.873	473259.298
224	204+02.32	63.46' RT.	1734508.114	473262.699
225	204+16.44	63.54' RT.	1734520.801	473268.903
226	204+24.44	63.63' RT.	1734528.007	473272.378
227	-	-	1734557.588	473286.642
228	-	-	1734553.959	473299.413
229	-	-	1734552.865	473303.261
230	-	-	1734554.165	473306.869
231	-	-	1734559.895	473311.947
232	-	-	1734567.048	473311.411
233	-	-	1734571.724	473306.896
234	-	-	1734577.457	473301.315
235	-	-	1734595.053	473283.546

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-1885(800)

WIN
18858.00
HIGHWAY PLANS

PROJ. MANAGER CATHERINE RAND
CHECKED-DETAILED T. WOLFEL
DESIGNED-REVIEWED K. WOOD

DATE 3/2018
BY T. WOLFEL
J. NEWBORTH

SIGNATURE

P.E. NUMBER

DATE

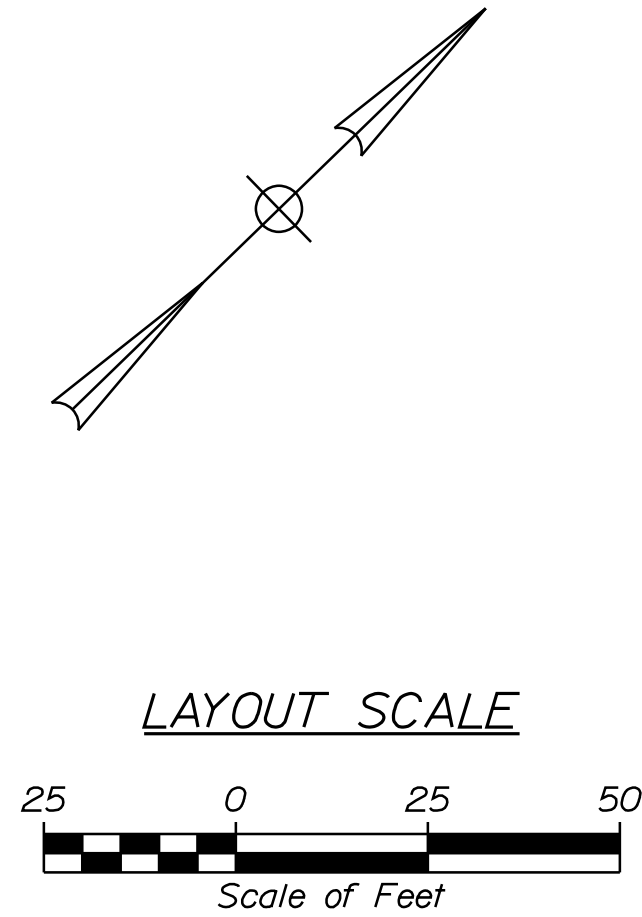
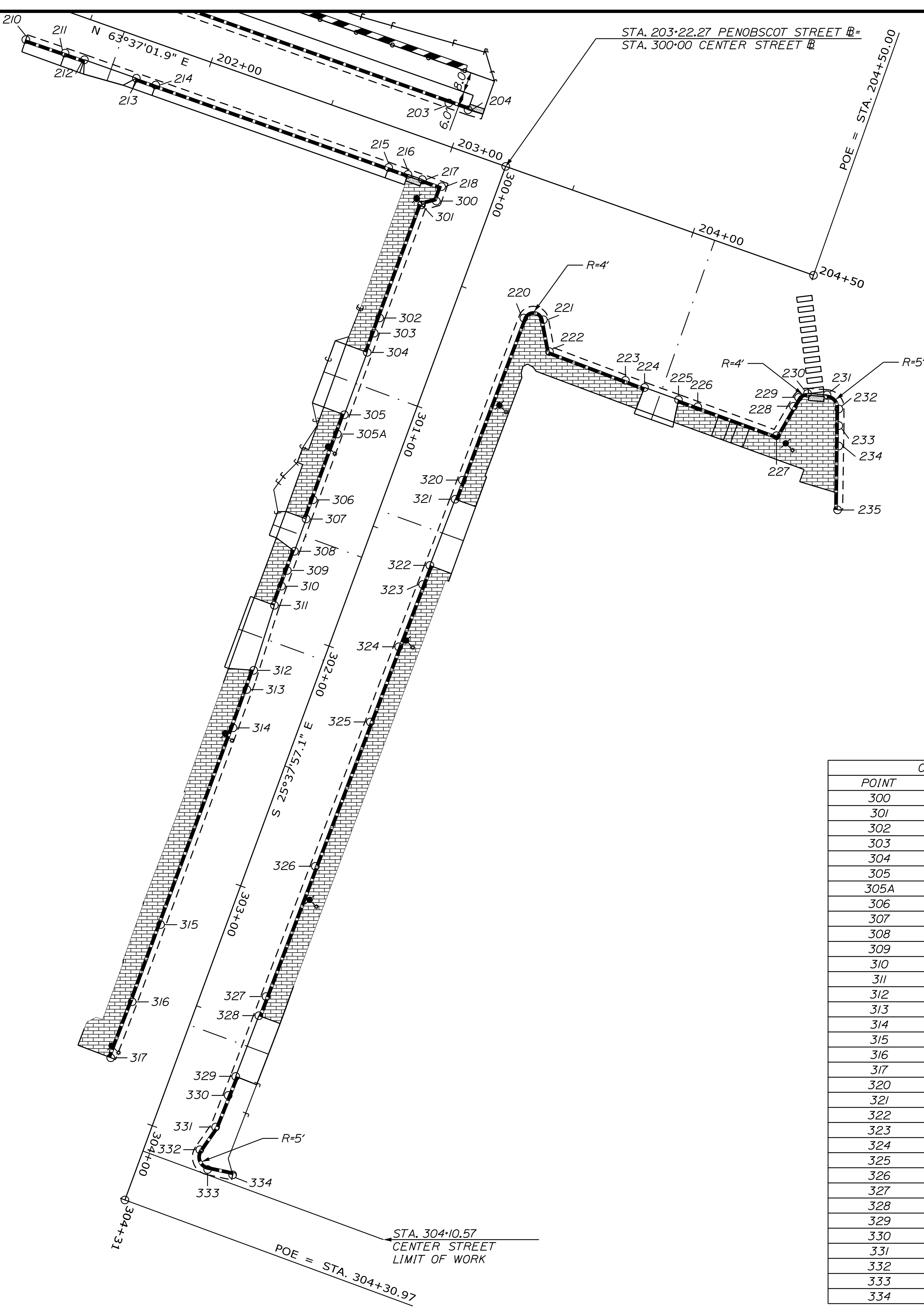
BREWER
BREWER RIVERWALK
GEOMETRICS AND
CURB LAYOUT

SHEET NUMBER
13
OF 42

ITEM 609.238 - TERMINAL CURB TYPE 1-8'		
POINT	LENGTH	RADIUS
303 TO 304	8.00'	-
305 TO 305A	8.00'	-
306 TO 307	8.00'	-
308 TO 309	8.00'	-
310 TO 311	8.00'	-
312 TO 313	8.00'	-
320 TO 321	8.00'	-
322 TO 323	8.00'	-
327 TO 328	8.00'	-
329 TO 330	8.00'	-

ITEM 609.38 - RESET CURB TYPE 1		
POINT	LENGTH	RADIUS
218 TO 300	6.00'	-
300 TO 301	6.00'	-
301 TO 302	47.18'	-
302 TO 303	6.31'	-
305A TO 306	27.44'	-
309 TO 310	6.57'	-
313 TO 314	15.91'	-
314 TO 315	82.04'	-
315 TO 316	32.17'	-
316 TO 317	23.45'	-
220 TO 320	67.83'	-
323 TO 324	26.09'	-
324 TO 325	31.44'	-
325 TO 326	60.45'	-
326 TO 327	54.49'	-
330 TO 331	13.31'	-
331 TO 332	10.81'	-
332 TO 333	9.85'	5.00'
333 TO 334	10.00'	-

CURVE DATA #1
PI = 200+45.38
D = 76°23'39.7"
Δ = 62°21'15.1" Rt.
R = 75.00'
L = 81.62'
T = 45.38'
E = 12.66'



CONTROL POINTS FOR CURBING - PENOBSCOT STREET				
POINT	STATION	OFFSET	X-COORD	Y-COORD
300	300+22.08	20.81' RT.	1734399.002	473255.071
301	300+25.51	25.73' RT.	1734396.043	473249.851
302	300+72.69	25.79' RT.	1734416.399	473207.291
303	300+79.00	25.75' RT.	1734419.164	473201.616
304	300+87.00	25.71' RT.	1734422.664	473194.422
305	301+13.00	25.66' RT.	1734433.951	473171.000
305A	301+21.00	25.65' RT.	1734437.424	473163.793
306	301+48.44	25.60' RT.	1734449.336	473139.073
307	301+56.44	25.59' RT.	1734452.809	473131.866
308	301+69.85	25.52' RT.	1734458.68	473119.805
309	301+77.85	25.53' RT.	1734462.127	473112.586
310	301+84.42	25.54' RT.	1734464.955	473106.66
311	301+92.42	25.56' RT.	1734468.401	473099.441
312	302+19.09	24.37' RT.	1734481.012	473075.909
313	302+27.09	24.30' RT.	1734484.533	473068.725
314	302+43.00	24.17' RT.	1734491.536	473054.438
315	303+25.04	24.15' RT.	1734527.047	472980.48
316	303+57.22	24.14' RT.	1734540.972	472951.475
317	303+80.67	24.44' RT.	1734550.845	472930.203
320	301+21.03	26.55' LT.	1734484.498	473186.344
321	301+29.03	26.48' LT.	1734487.897	473179.102
322	301+56.75	26.14' LT.	1734499.578	473153.966
323	301+64.75	26.04' LT.	1734502.949	473146.711
324	301+90.84	25.71' LT.	1734513.942	473123.049
325	302+22.27	25.45' LT.	1734527.309	473094.593
326	302+82.72	24.78' LT.	1734552.849	473039.807
327	303+37.20	24.31' LT.	1734575.995	472990.479
328	303+45.20	24.24' LT.	1734579.393	472983.237
329	303+70.63	23.97' LT.	1734590.148	472960.199
330	303+78.62	23.77' LT.	1734593.431	472952.904
331	303+91.93	23.45' LT.	1734598.896	472940.764
332	304+02.39	20.71' LT.	1734600.946	472930.154
333	304+08.60	26.25' LT	1734608.635	472926.947
334	304+07.18	36.15' LT	1734616.947	472932.508

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
HPP-1885(800)

WIN
18858.00
HIGHWAY PLANS

PROJ. MANAGER CATHERINE RAND
DESIGN-DETAILED T. WOLFEL
CHECKED-REVIEWED K. WOOD
DESIGN-DETAILED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
3/2018
3/2018

BY
T. WOLFEL
J. WERTWORTH

SIGNATURE
P.E. NUMBER
DATE

BREWER
BREWER RIVERWALK
GEOMETRICS AND
CURB LAYOUT

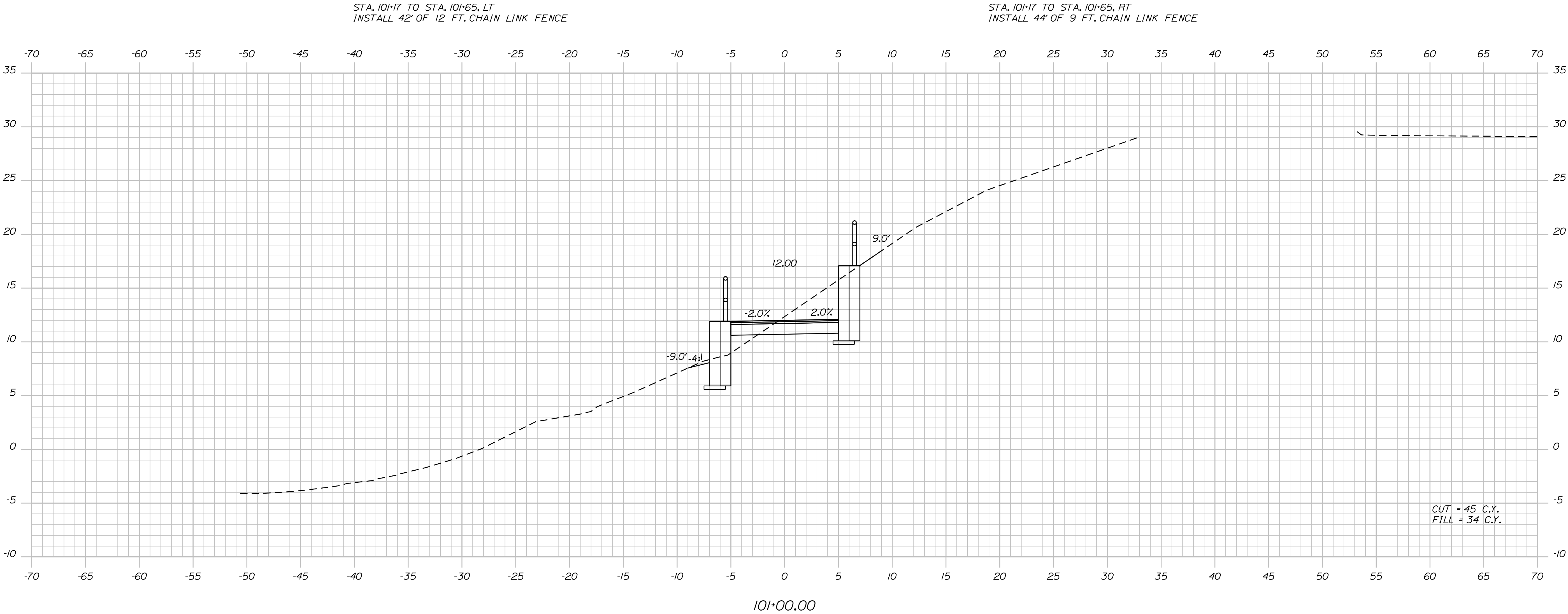
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14
OF 42

Date:4/2/2018

Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
HPP-1885(800)
WIN 18858.00
HIGHWAY PLANS

DATE	3/2018
BY	T. WOLFEL
PROJ. MANAGER	CATHERINE RAND
DESIGN-DETAILED	T. WOLFEL
CHECKED-REVIEWED	K. WOOD
DESIGN-DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BREWER BREWER RIVERWALK
CROSS SECTIONS

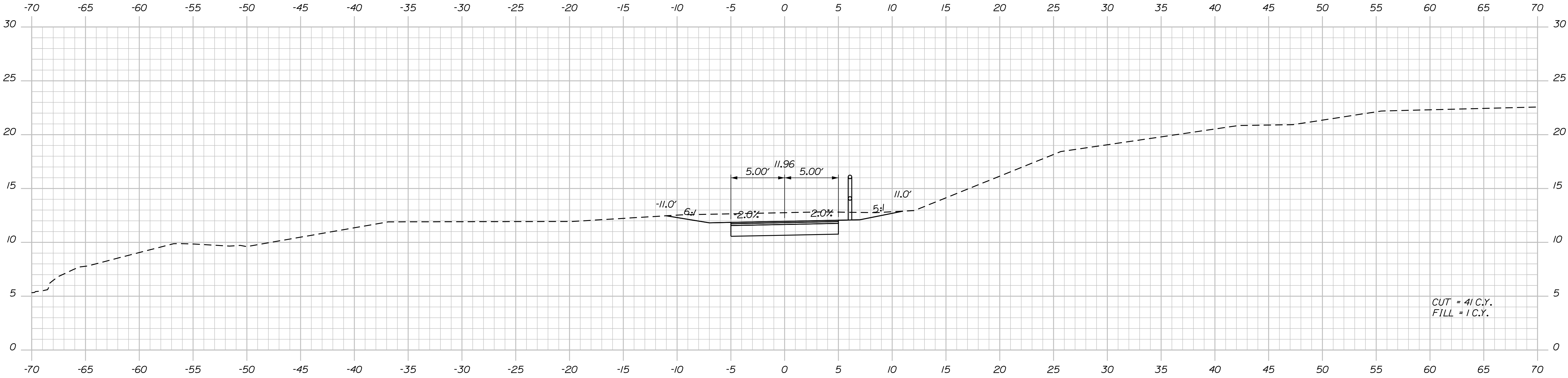
SHEET NUMBER
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OF 42

Date:4/2/2018

Username:

Division: HIGHWAY

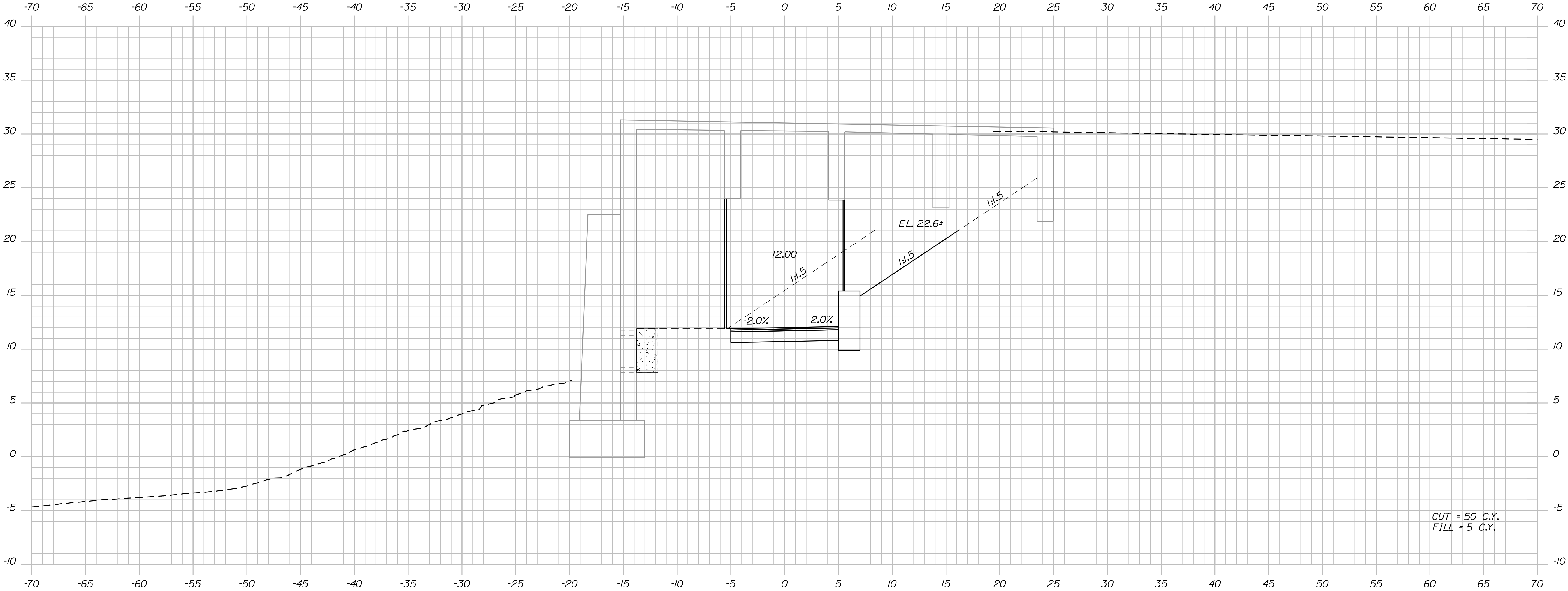
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STA. 101+65 TO STA. 101+97, LT
INSTALL 28.50' OF 4 FT. CHAIN LINK FENCE

102+00.00

STA. 101+65 TO STA. 102+65, RT
INSTALL 100' OF 4 FT. CHAIN LINK FENCE



101+50.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	HPP-1885(800)	
	WIN	18858.00
HIGHWAY PLANS		

DATE	3/2018	SIGNATURE
BY	T. WOLFEL	
PROJ. MANAGER	CATHERINE RAO	
CHECKED	REVIEWED	
DESIGNED	DETAILS	
REVISIONS	1	
REVISIONS	2	
REVISIONS	3	
REVISIONS	4	
FIELD CHANGES		

BREWSTER BREWSTER RIVERWALK	
CROSS SECTIONS	

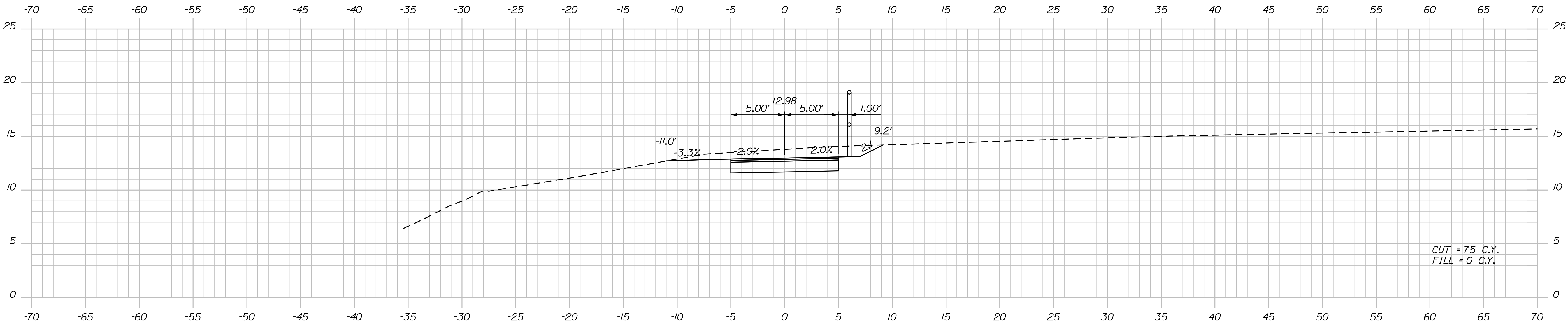
SHEET NUMBER
17
OF 42

Date:4/2/2018

Username:

Division: HIGHWAY

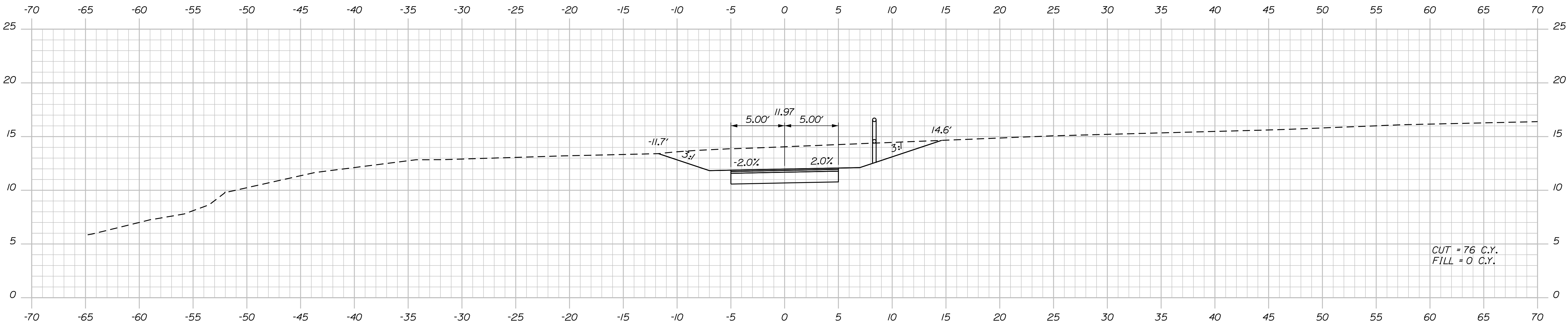
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103+00.00

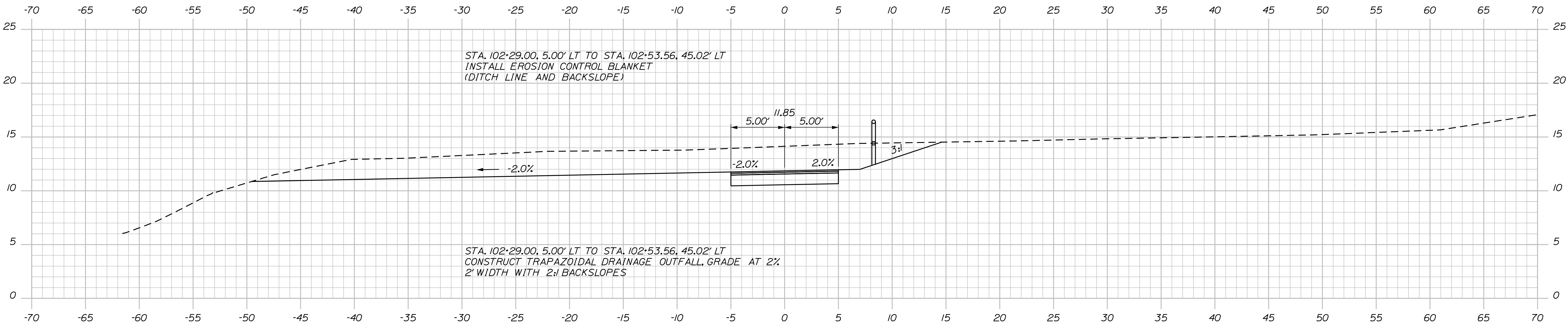
STA. 102+65 TO STA. 105+36, RT
INSTALL 274.5' OF 6 FT. CHAIN LINK FENCE

CUT = 75 C.Y.
FILL = 0 C.Y.



102+50.00

CUT = 76 C.Y.
FILL = 0 C.Y.



102+29.00

STA. 102+29.00, 5.00' LT TO STA. 102+53.56, 45.02' LT
INSTALL EROSION CONTROL BLANKET
(DITCH LINE AND BACKSLOPE)

STA. 102+29.00, 5.00' LT TO STA. 102+53.56, 45.02' LT
CONSTRUCT TRAPAZOIDAL DRAINAGE OUTFALL, GRADE AT 2%
2' WIDTH WITH 2:1 BACKSLOPES

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	HPP-1885(800)	
	WIN	18858.00
HIGHWAY PLANS		

PROJ. MANAGER CATHERINE RAND	BY T. WOLFEL	DATE 3/2018
CHECKED-REVIEWED K. WOOD	J. WENTWORTH	3/2018
DESIGN-DETAILED		SIGNATURE
DESIGN-DETAILED		P.E. NUMBER
REVISIONS 1		DATE
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BREWER BREWER RIVERWALK	CROSS SECTIONS
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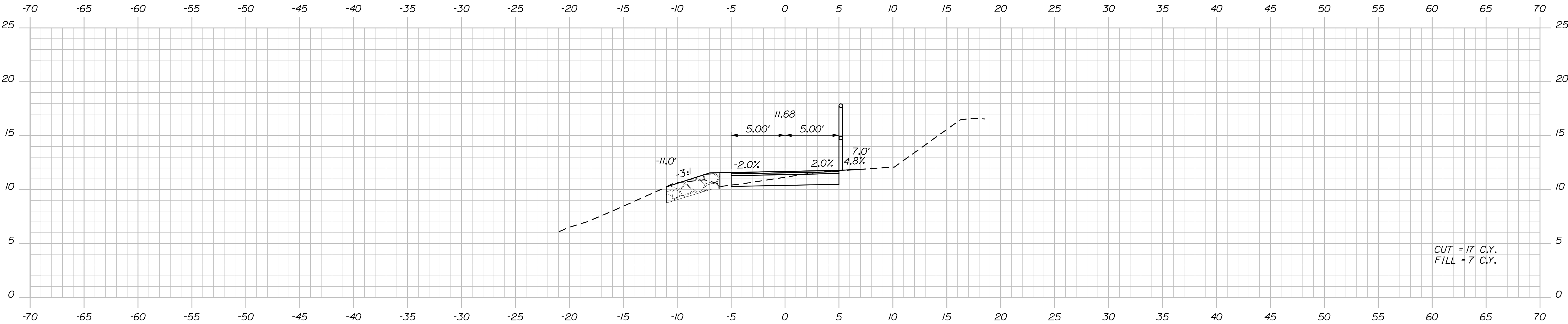
SHEET NUMBER
18
OF 42

Date:4/2/2018

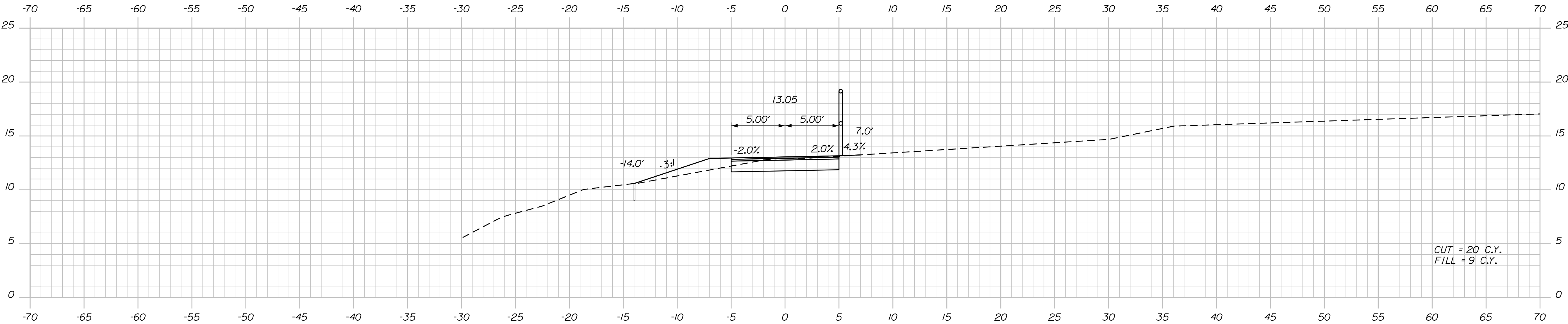
Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn

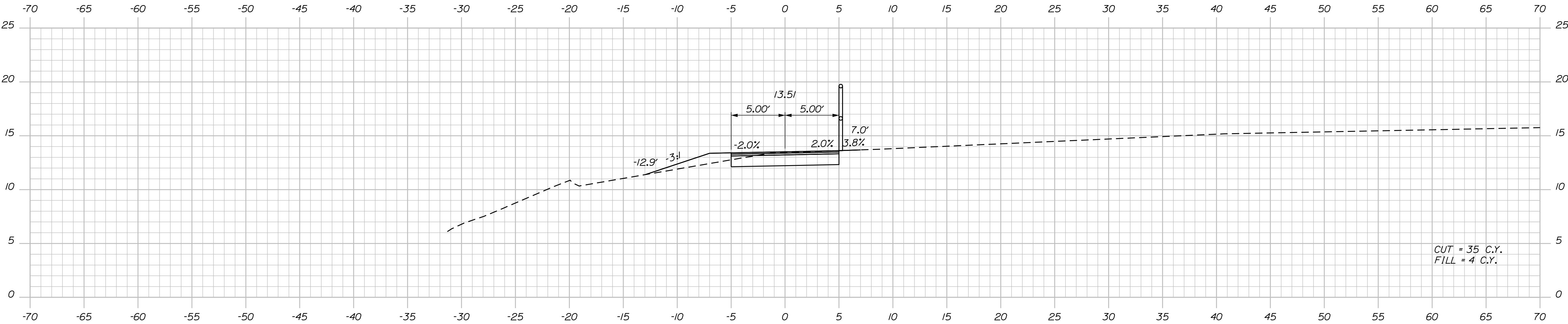


104+50.00



STA. 103+95.92 TO STA. 105+70.46, LT
INSTALL PLAIN RIPRAP

104+00.00



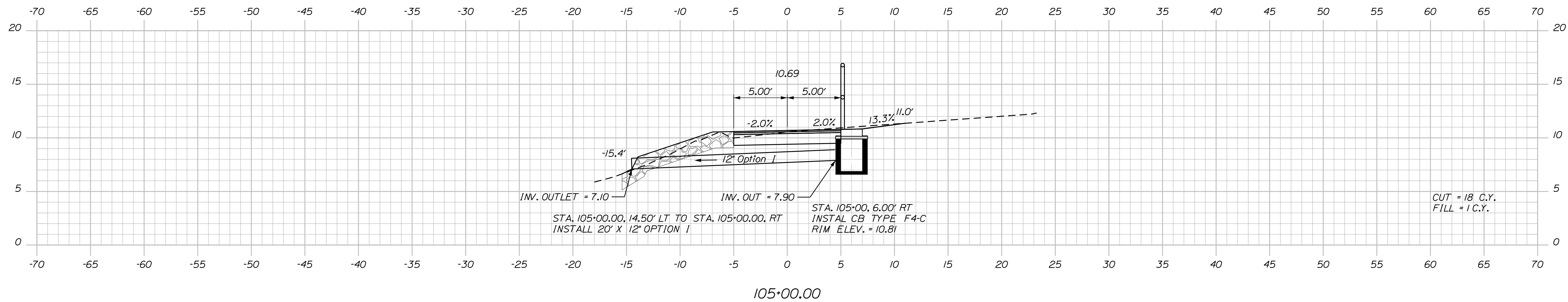
103+50.00

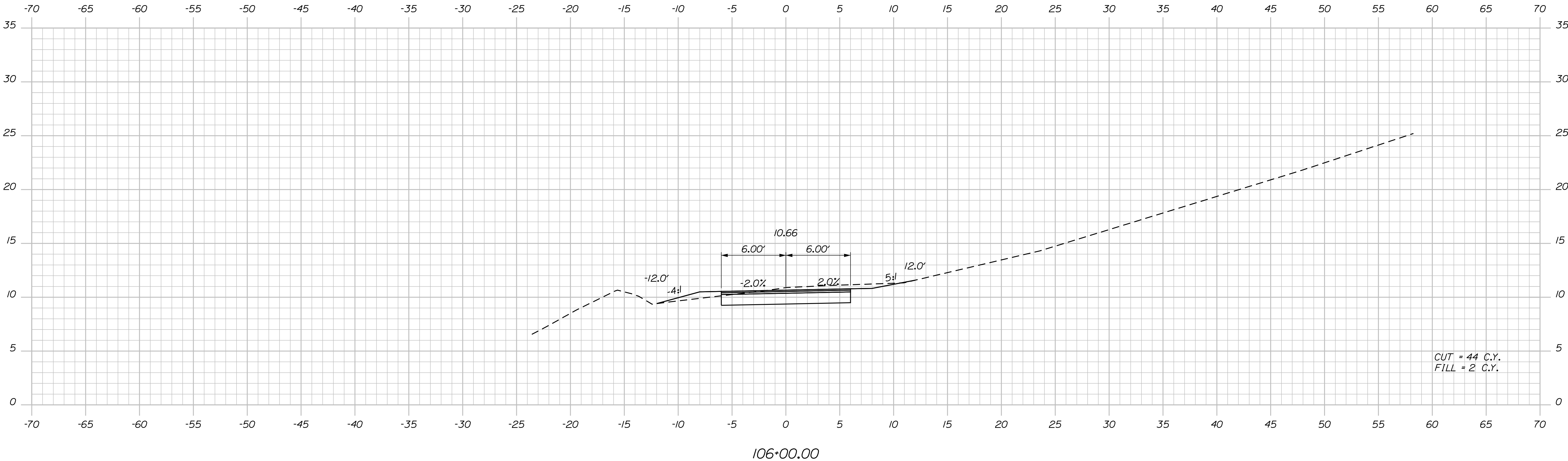
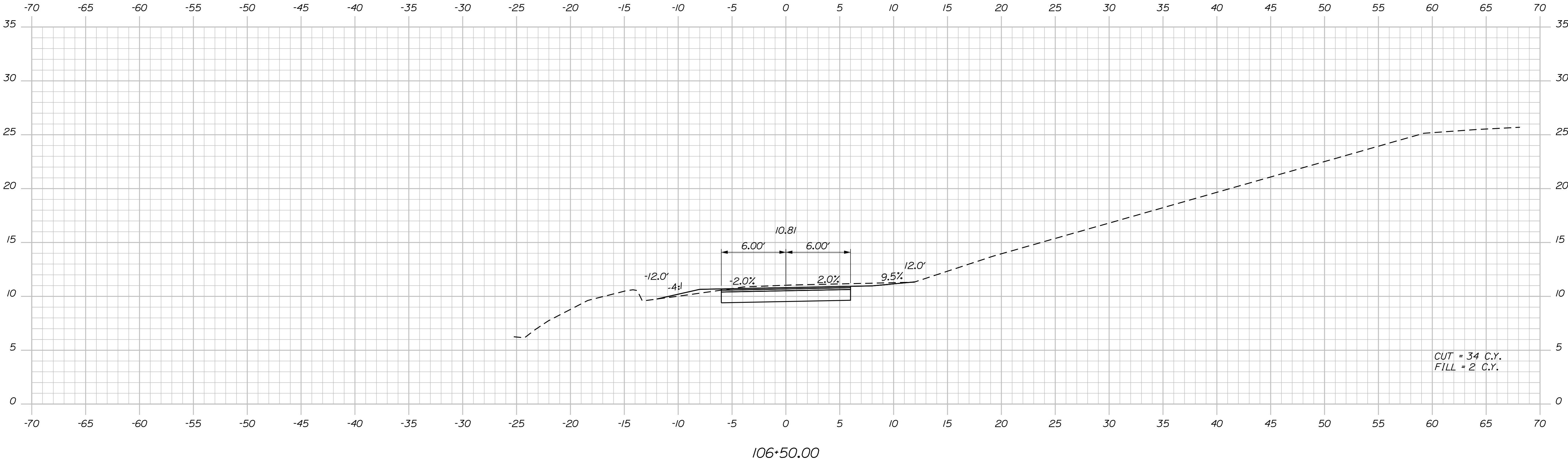
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	HPP-1885(800)	
	WIN	18858.00
	HIGHWAY PLANS	

PROJ. MANAGER	CATHERINE RAND	BY	DATE
CHECKED-DETAILED	T. WOLFEL	T. WOLFEL	3/2018
CHECKED-REVIEWED	K. WOOD	J. WENTWORTH	3/2018
DESIGN-DETAILED			
DESIGNS 1			
DESIGNS 2			
DESIGNS 3			
DESIGNS 4			
FIELD CHANGES			

BREWSTER BREWSTER RIVERWALK	SIGNATURE
	P.E. NUMBER
CROSS SECTIONS	DATE

SHEET NUMBER
19
OF 42





STATE OF MAINE DEPARTMENT OF TRANSPORTATION	HPP-1885(800)	
	WIN 18858.00	HIGHWAY PLANS

PROJ. MANAGER CATHERINE RAND	BY T. WOLFEL J. WENTWORTH	DATE 3/2018 3/2018
CHECKED-DETAILED K. WOOD	SIGNATURE	
DESIGNED-DETAILED	P.E. NUMBER	
REVISIONS 1	DATE	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BREWER BREWER RIVERWALK
CROSS SECTIONS

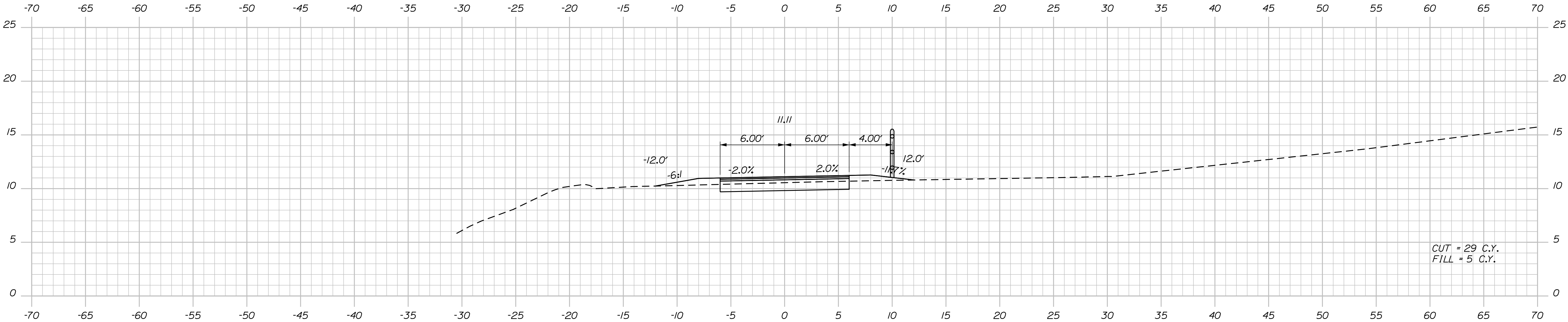
SHEET NUMBER
21
OF 42

Date:4/2/2018

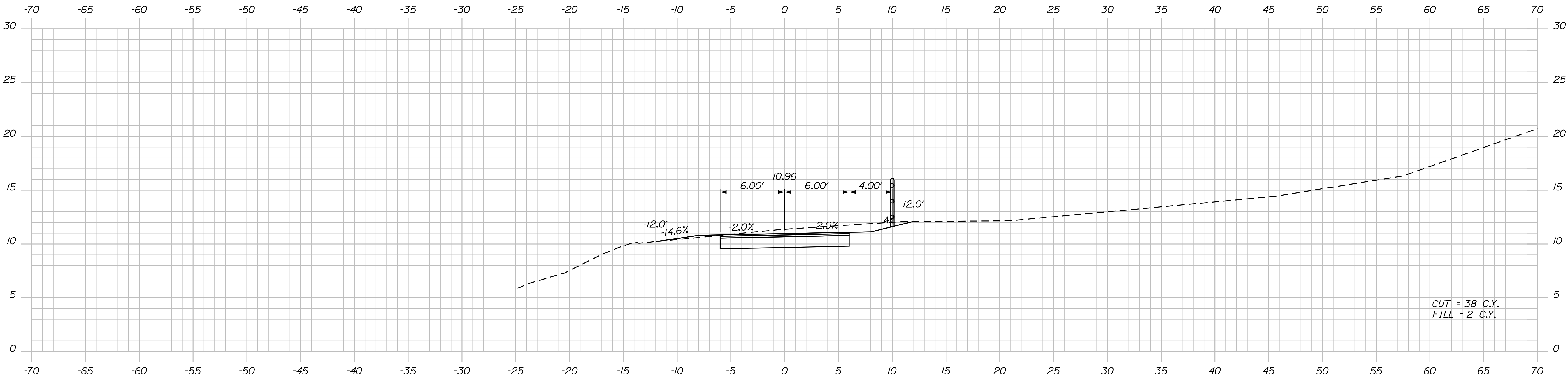
Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn



107+50.00



107+00.00

STA. 106+91.82 TO STA. 113+56.50, RT
INSTALL 664.50' OF CEDAR RAIL FENCE

PROJ. MANAGER	CATHERINE RAO	BY	DATE
CHECKED-DETAILED	T. WOLFEL	T. WOLFEL	3/2/08
DESIGNED-DETAILED	K. WOOD	J. WENTWORTH	3/2/08
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

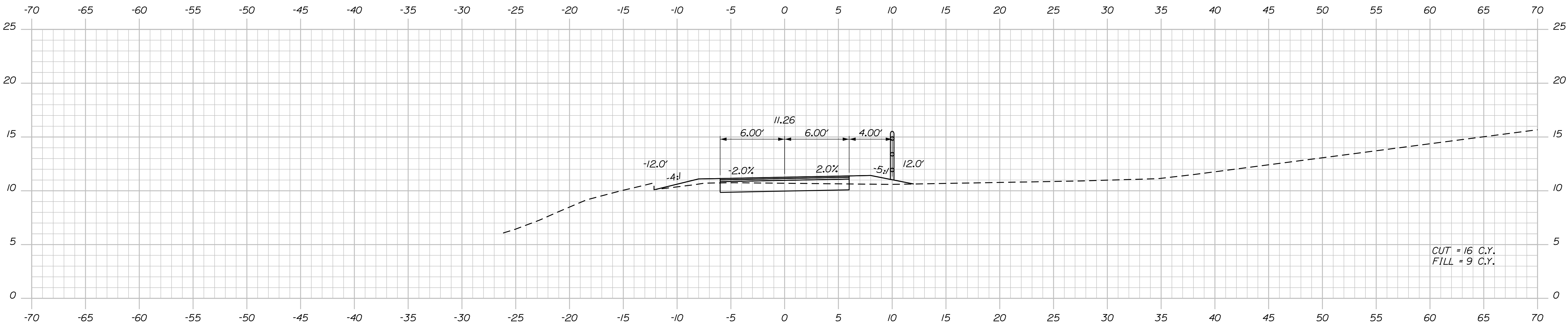
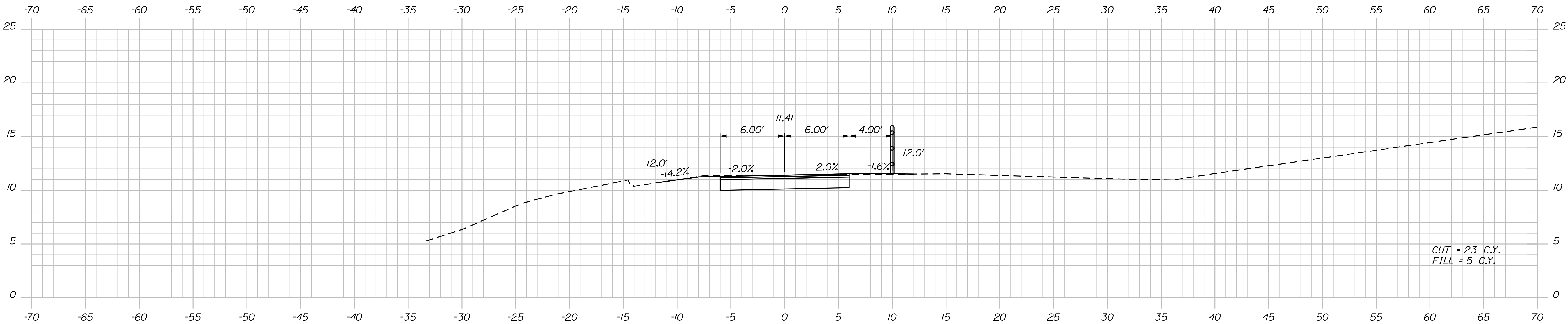
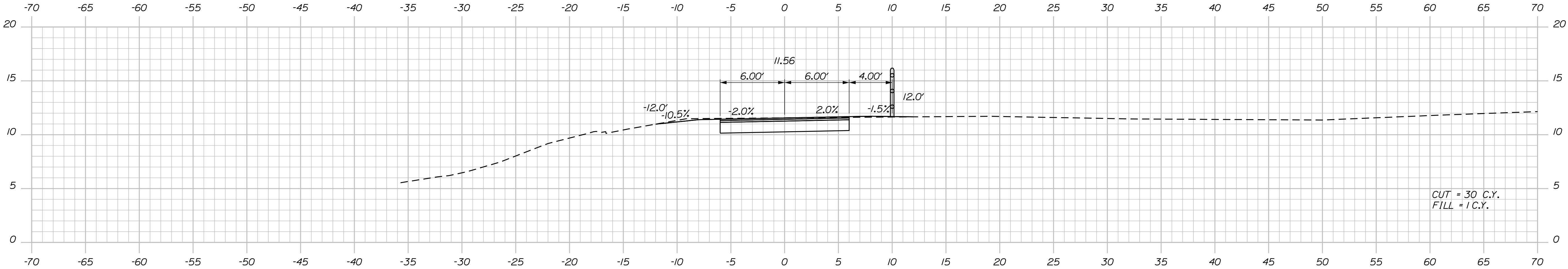
BREWER BREWER RIVERWALK	CROSS SECTIONS
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Date:4/2/2018

Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn



PROJ. MANAGER	CATHERINE RAND	BY	DATE
CHECKED-DETAILED	T. WOLFEL	T. WOLFEL	3/2018
CHECKED-REVIEWED	K. WOOD	J. WENTWORTH	3/2018
DESIGNS-DETAILED			
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

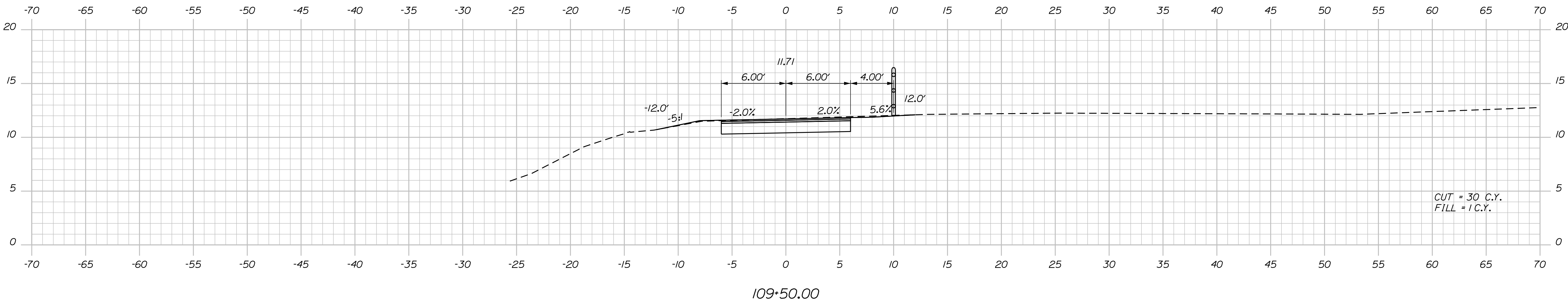
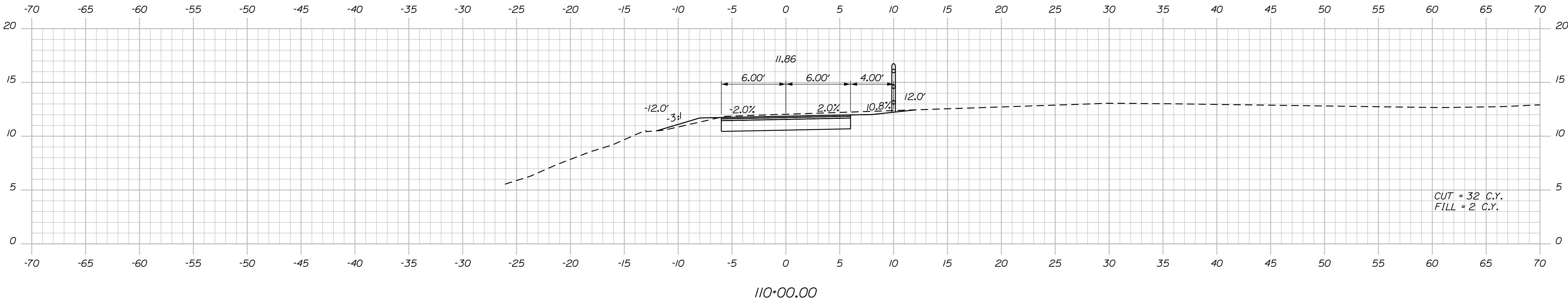
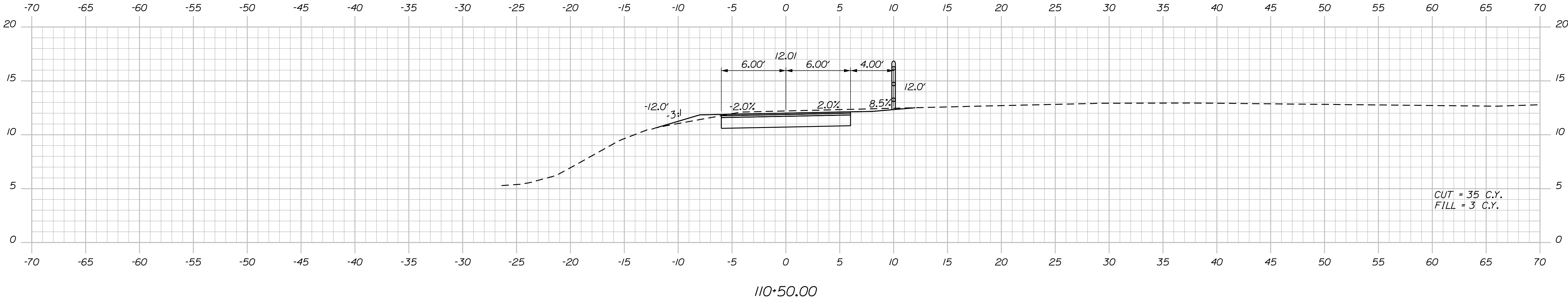
BREWER BREWER RIVERWALK	CROSS SECTIONS
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Date:4/2/2018

Username:

Division: HIGHWAY

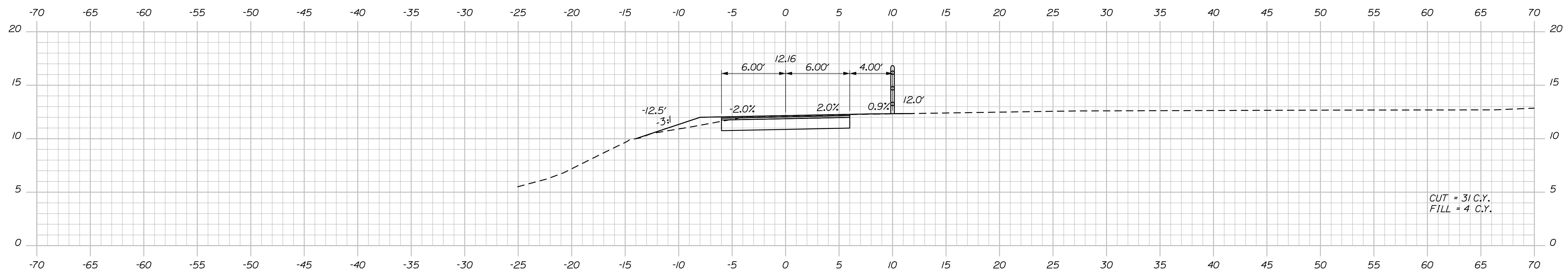
Filename: ... \multimode\WSTA\vssect.dgn



DATE	3/2018	SIGNATURE
BY	T. WOLFEL J. WENTWORTH	P.E. NUMBER
PROJ. MANAGER	CATHERINE RAND	DATE
DESIGN-DETAILED	T. WOLFEL	
CHECKED-REVIEWED	K. WOOD	
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

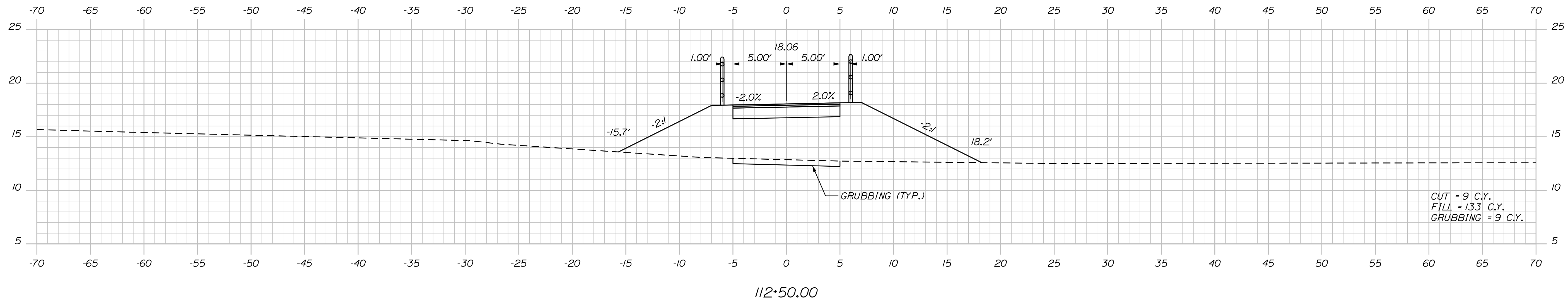
BREWER
BREWER RIVERWALK
CROSS SECTIONS

Filename: ... \multimode\MSTA\xsect.dgn



SHEET NUMBER
25
OF 42

Filename: ... \multimode\MSTA\xsect.dgn



SHEET NUMBER

26

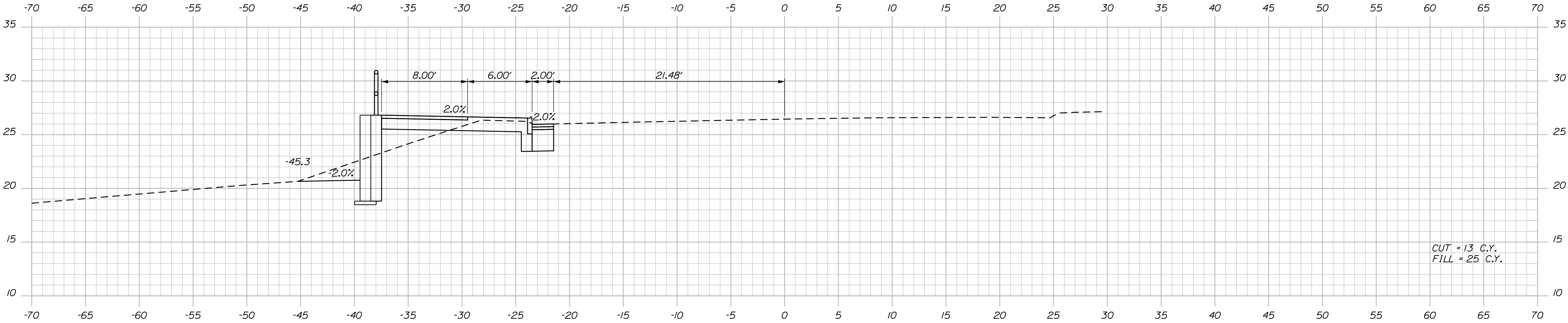
OF 42

Date:4/2/2018

Username:

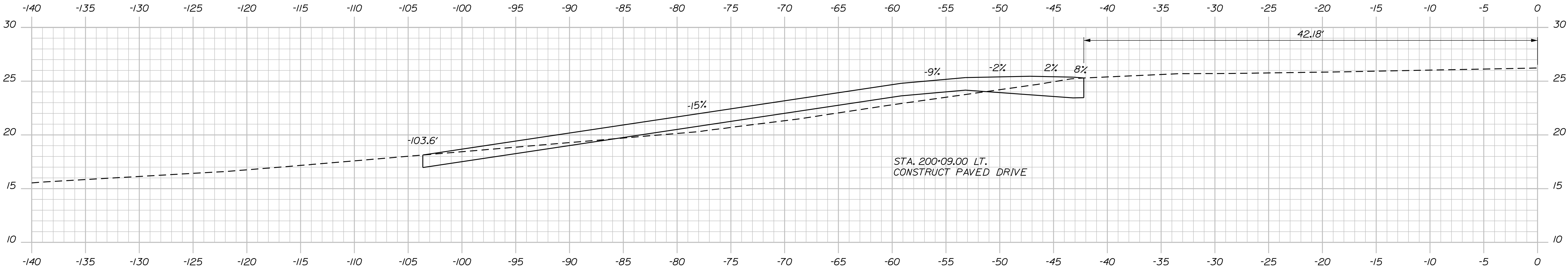
Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn



STA. 200+49 TO STA. 202+95, LT
INSTALL 261.50' OF PEDESTRIAN FENCE

200+50.00



200+07.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
HPP-1885(800)
WIN 18858.00
HIGHWAY PLANS

PROJ. MANAGER CATHERINE RAND	BY T. WOLFEL J. WENTWORTH	DATE 3/2018 3/2018
CHECKED-DESIGNED T. WOLFEL	DESIGNED K. WOOD	SIGNATURE
DESIGNED-REVIEWED T. WOLFEL	DESIGNED K. WOOD	P.E. NUMBER
REVISIONS 1	REVISIONS 2	DATE
REVISIONS 3	REVISIONS 4	
FIELD CHANGES		

BREWER BREWER RIVERWALK
CROSS SECTIONS

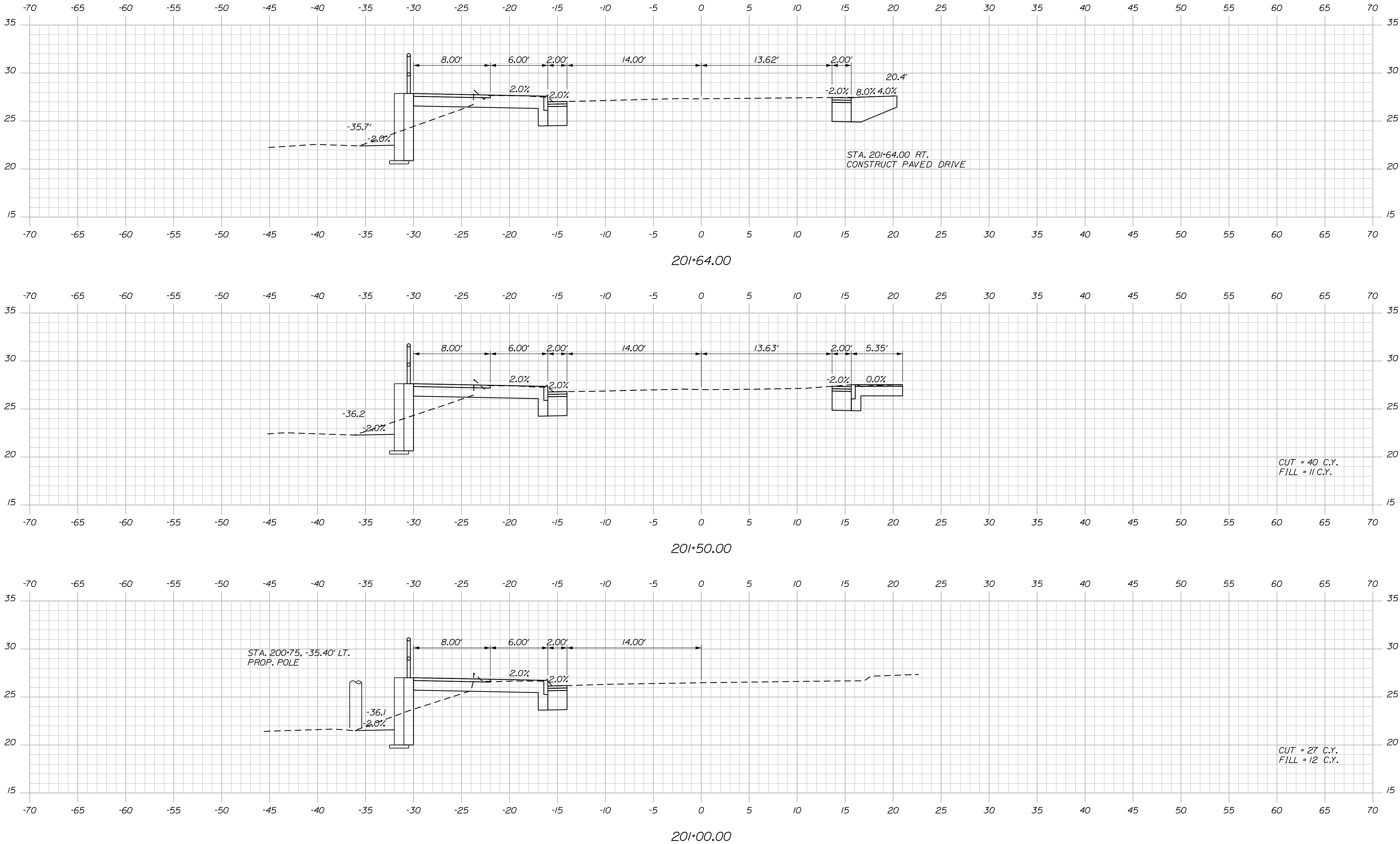
SHEET NUMBER
27
OF 42

Date:4/2/2018

Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn



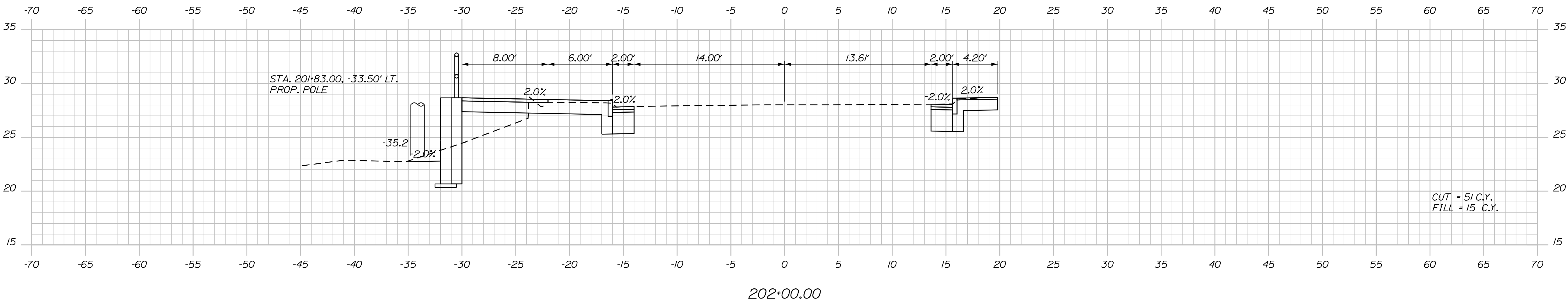
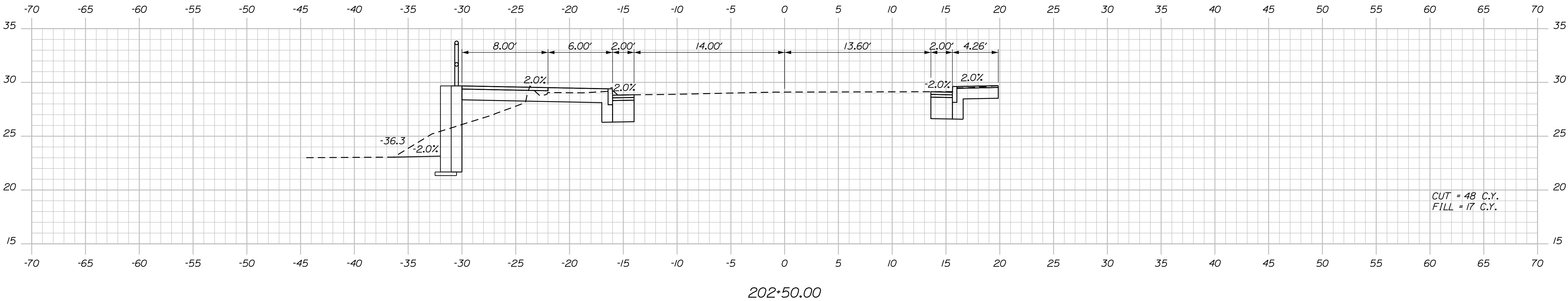
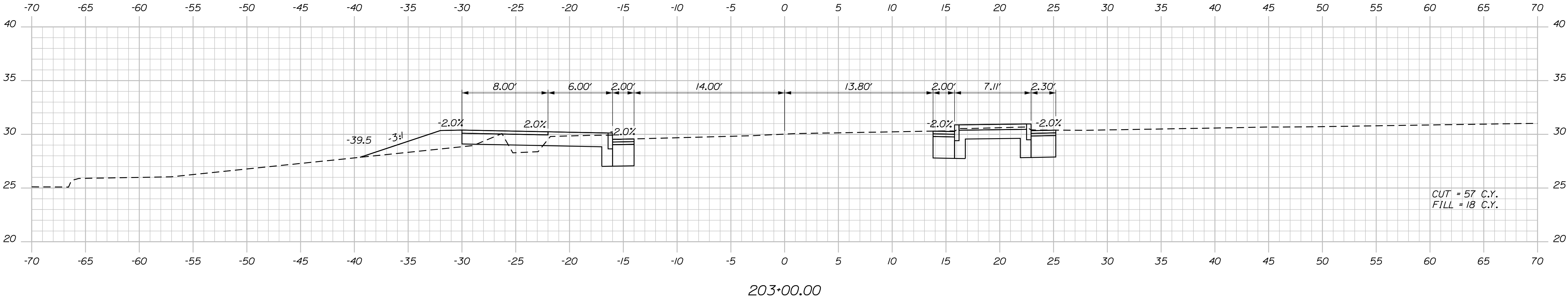
STATE OF MAINE		DATE	
DEPARTMENT OF TRANSPORTATION		BY	
HPP-1885(800)		T. WOLFEL	
WIN		J. WENTWORTH	
18858.00		3/2018	
HIGHWAY PLANS		SIGNATURE	
		P.E. NUMBER	
		DATE	
BREWSTER RIVERWALK		DESIGN-DETAILED	
CROSS SECTIONS		CHECKED-REVIEWED	
		DESIGN-DETAILED	
		REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	
SHEET NUMBER			
28			
OF 42			

Date:4/2/2018

Username:

Division: HIGHWAY

Filename: ... \multimode\WSTA\vssect.dgn



DATE	BY	PROJ. MANAGER	CATHERINE RAND
3/2018	T. WOLFEL	T. WOLFEL	J. WENTWORTH
SIGNATURE			
P.E. NUMBER			
DATE			

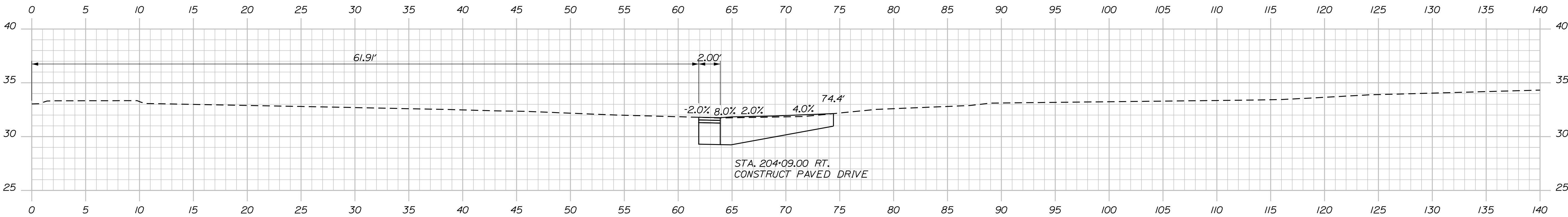
DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	CHECKED-REVIEWED
T. WOLFEL	K. WOOD	T. WOLFEL	K. WOOD
DESIGN-DETAILED		DESIGN-DETAILED	
REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	

Date:4/2/2018

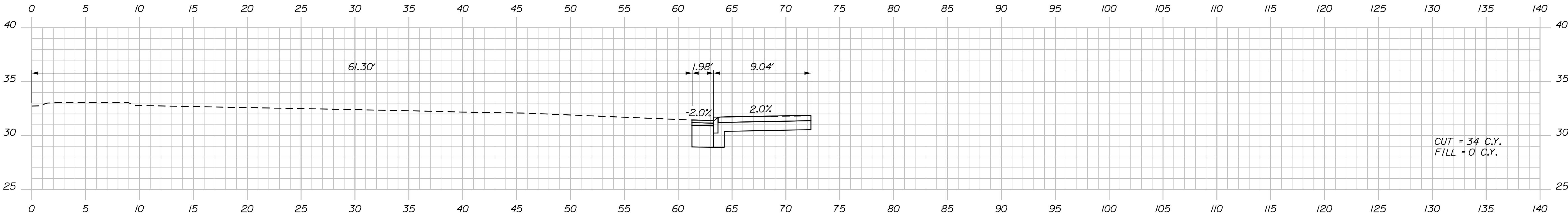
Username:

Division: HIGHWAY

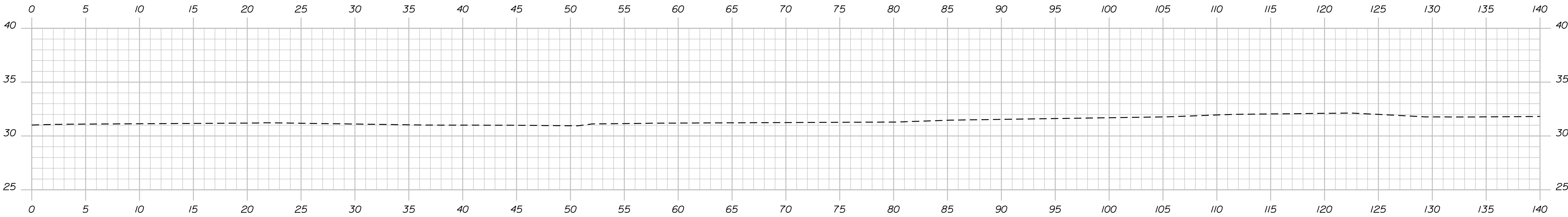
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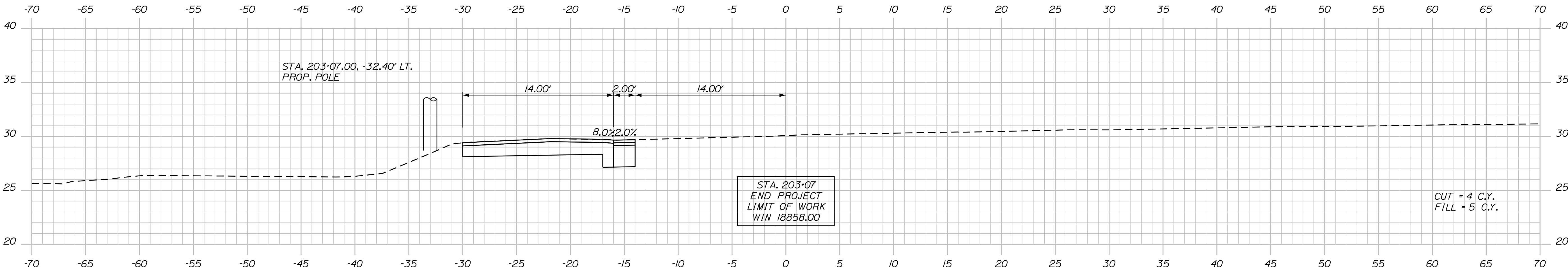
204+09.00



204+00.00



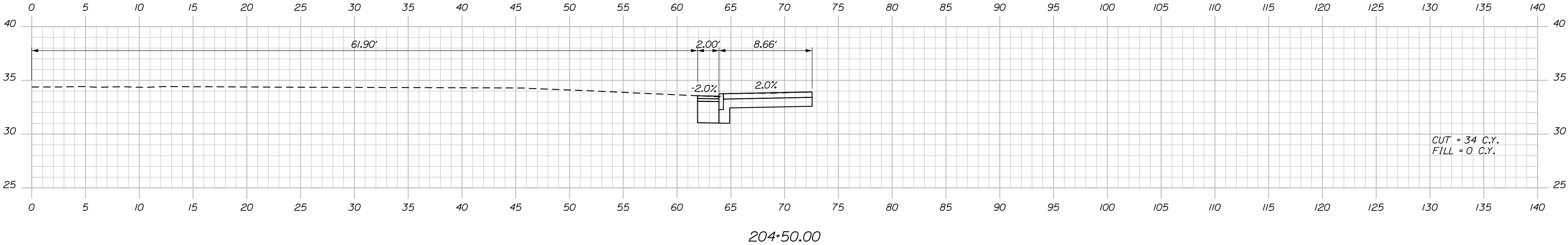
203+50.00



203+07.00

PROJ. MANAGER	CATHERINE RAND	BY	DATE
DESIGN-DETAILED	T. WOLFEL	T. WOLFEL	3/2018
CHECKED-REVIEWED	K. WOOD	J. WENTWORTH	3/2018
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BREWER BREWER RIVERWALK	SIGNATURE
	P.E. NUMBER
	DATE



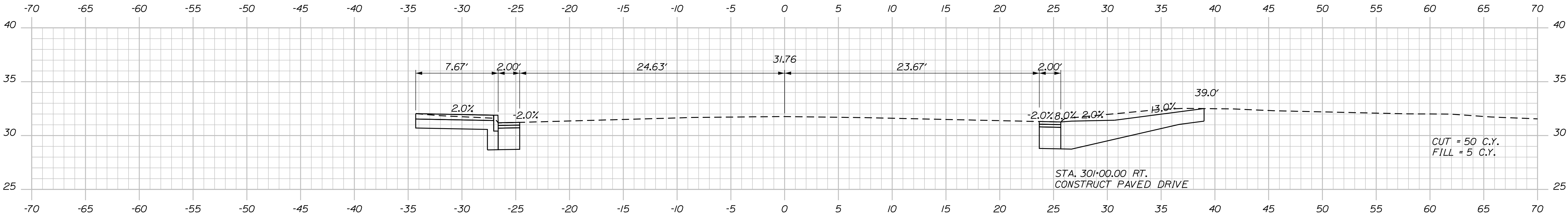
STATE OF MAINE DEPARTMENT OF TRANSPORTATION HPP-1885(800) WIN 18858.00 HIGHWAY PLANS				
	SIGNATURE		DATE	
	P.E. NUMBER		DATE	
BREWSTER BREWSTER RIVERWALK	DESIGNED-Detailed	T. WOLFEL	3/2018	
	CHECKED-Reviewed	K. WOOD	3/2018	
CROSS SECTIONS	DESIGNED-Detailed			
	REVISIONS 1			
	REVISIONS 2			
	REVISIONS 3			
	REVISIONS 4			
FIELD CHANGES				
SHEET NUMBER				
31				
OF 42				

Date:4/2/2018

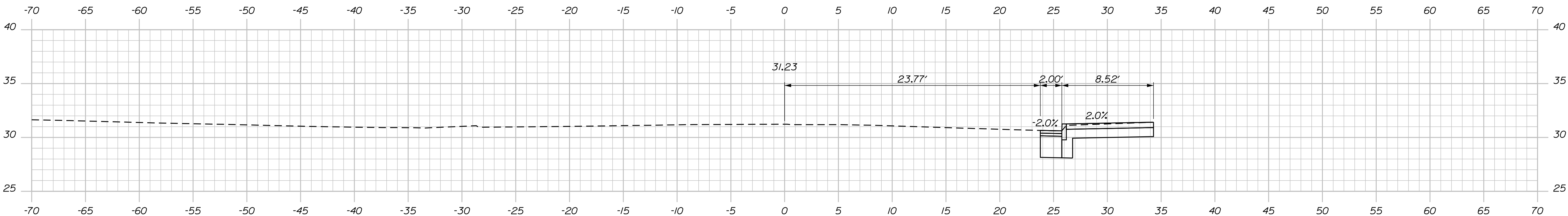
Username:

Division: HIGHWAY

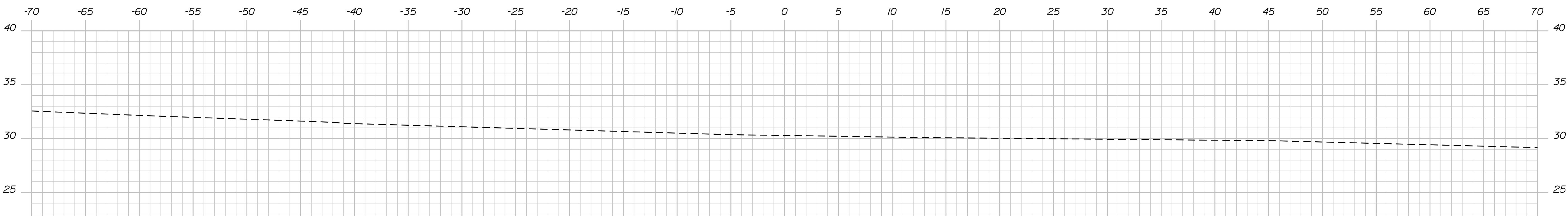
Filename: ... \multimode\WSTA\vssect.dgn



301+00.00



300+50.00



300+00.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
HPP-1885(800)	
WIN	HIGHWAY PLANS
18858.00	

SIGNATURE	
P.E. NUMBER	
DATE	

DATE	3/2018
BY	T. WOLFEL
PROJ. MANAGER	CATHERINE RAND
CHECKED	T. WOLFEL
DESIGNED	K. WOOD
REVISIONS	1
REVISIONS	2
REVISIONS	3
REVISIONS	4
FIELD CHANGES	

BREWSTER RIVERWALK	
CROSS SECTIONS	

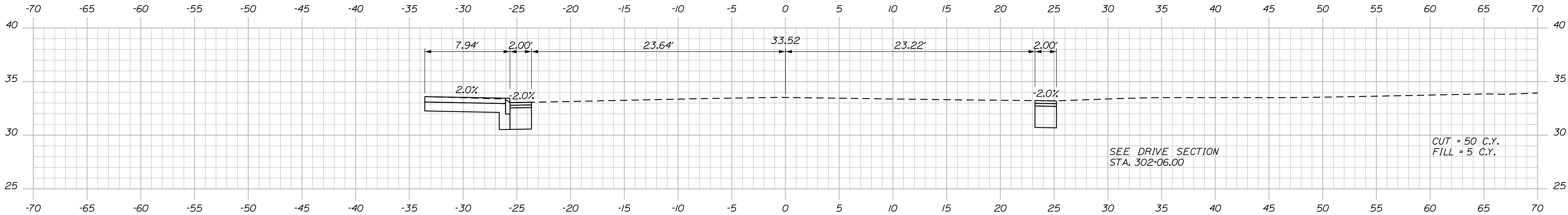
SHEET NUMBER	
32	
OF 42	

Date:4/2/2018

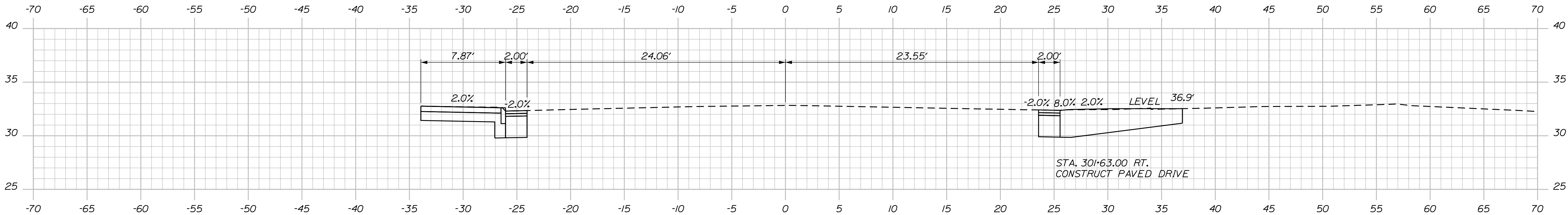
Username:

Division: HIGHWAY

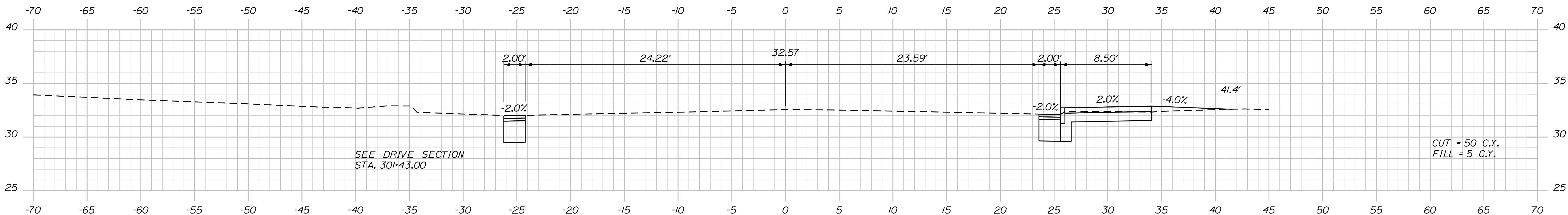
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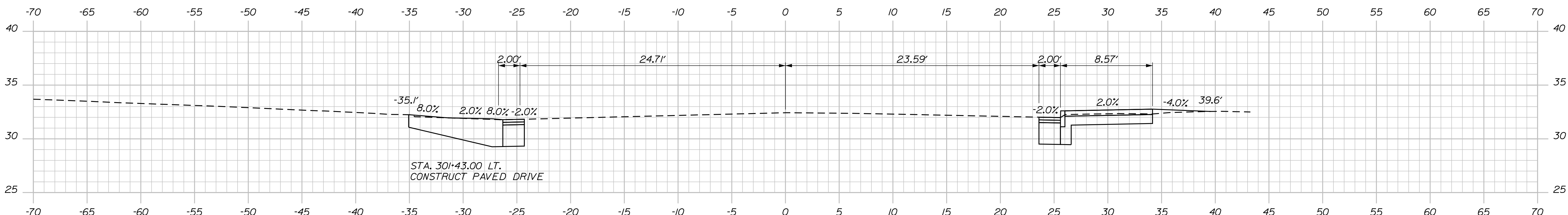
302+00.00



301+63.00



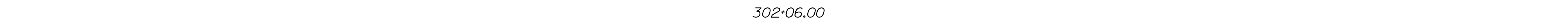
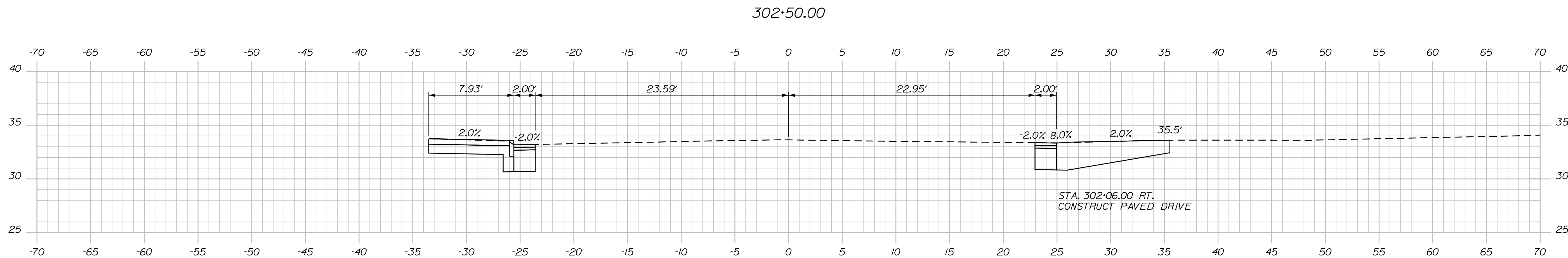
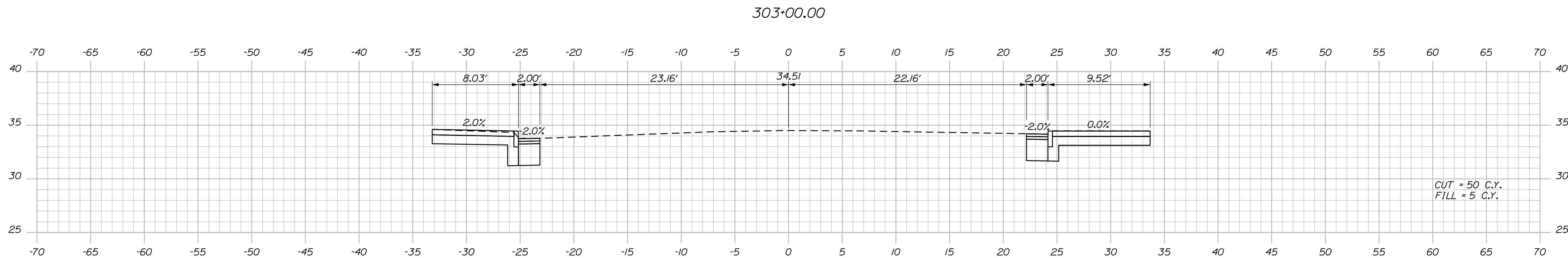
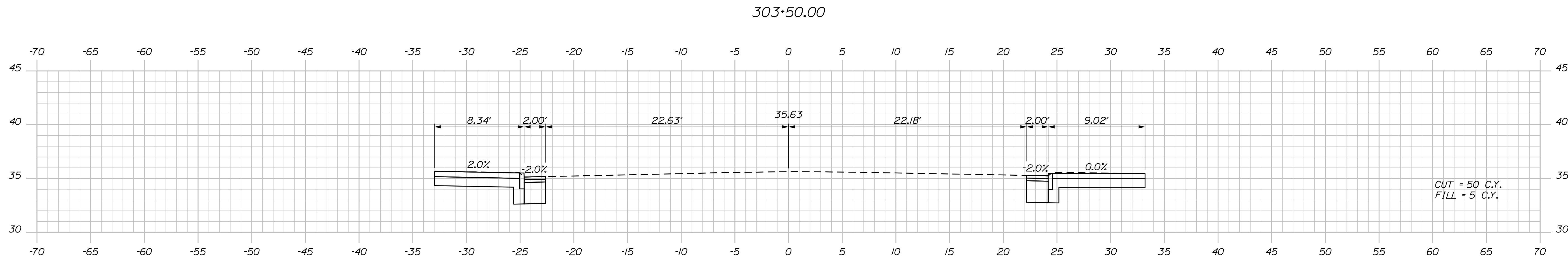
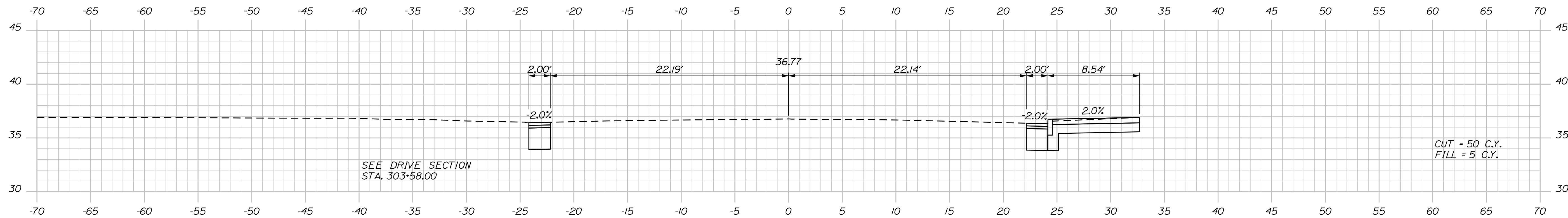
301+50.00



301+43.00

DATE	BY	PROJ. MANAGER	CATHERINE RAND
3/2018	T. WOLFEL	T. WOLFEL	K. WOOD
3/2018	J. WENTWORTH		
SIGNATURE			
P.E. NUMBER			
DATE			

BREWER
BREWER RIVERWALK
CROSS SECTIONS



CUT = 50 C.Y.
FILL = 5 C.Y.

CUT = 50 C.Y.
FILL = 5 C.Y.

CUT = 50 C.Y.
FILL = 5 C.Y.

STA. 302+06.00 RT.
CONSTRUCT PAVED DRIVE

PROJ. MANAGER	CATHERINE RAND	BY	DATE
DESIGN-DETAILED	T. WOLFEL	T. WOLFEL	3/2018
CHECKED-REVIEWED	K. WOOD	J. WENTWORTH	3/2018
DESIGN-DETAILED	02		SIGNATURE
DESIGN-DETAILED	03		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
FIELD CHANGES			

BREWER BREWER RIVERWALK CROSS SECTIONS

SHEET NUMBER
34
OF 42

Filename: ... \multimode\MSTA\xsect.dgn



SHEET NUMBER

35

OF 42

①

②

③

④

DETOUR
AHEAD

ROAD
CLOSED
AHEAD

PENOBSCOT ST
DETOUR
→

ROAD
CLOSED

⑤

⑥

⑦

DOWNTOWN
→

END
DETOUR
PENOBSCOT ST

DETOUR
PENOBSCOT ST
↑



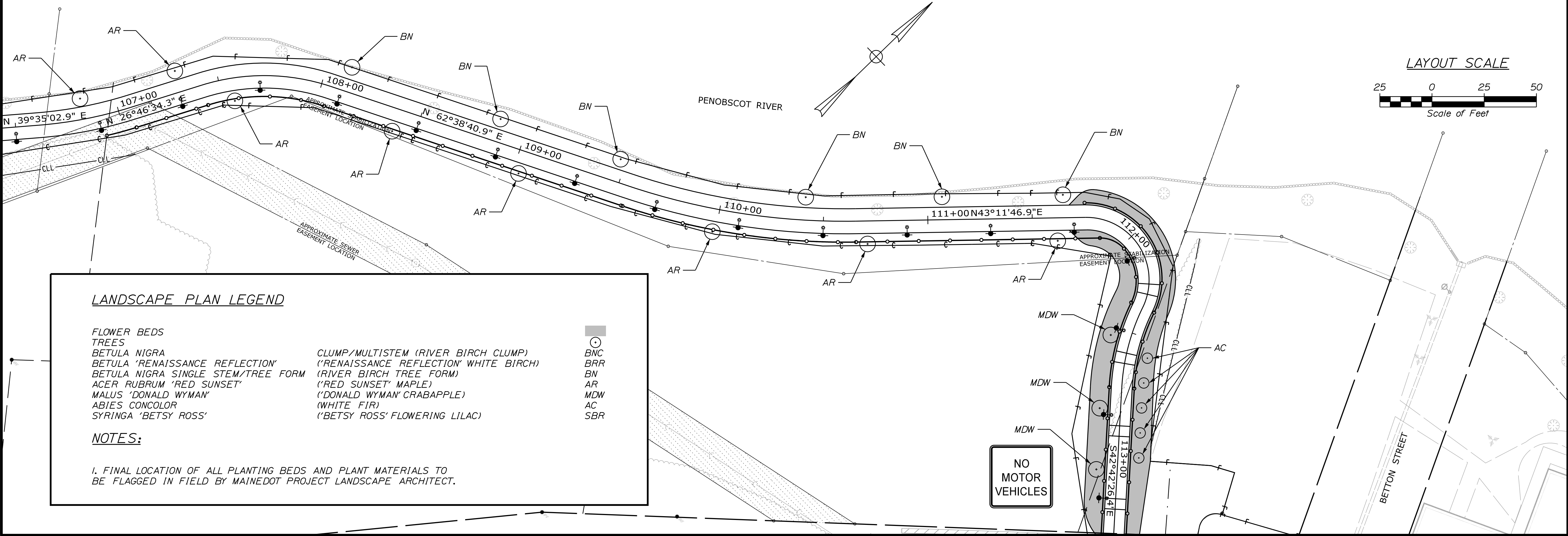
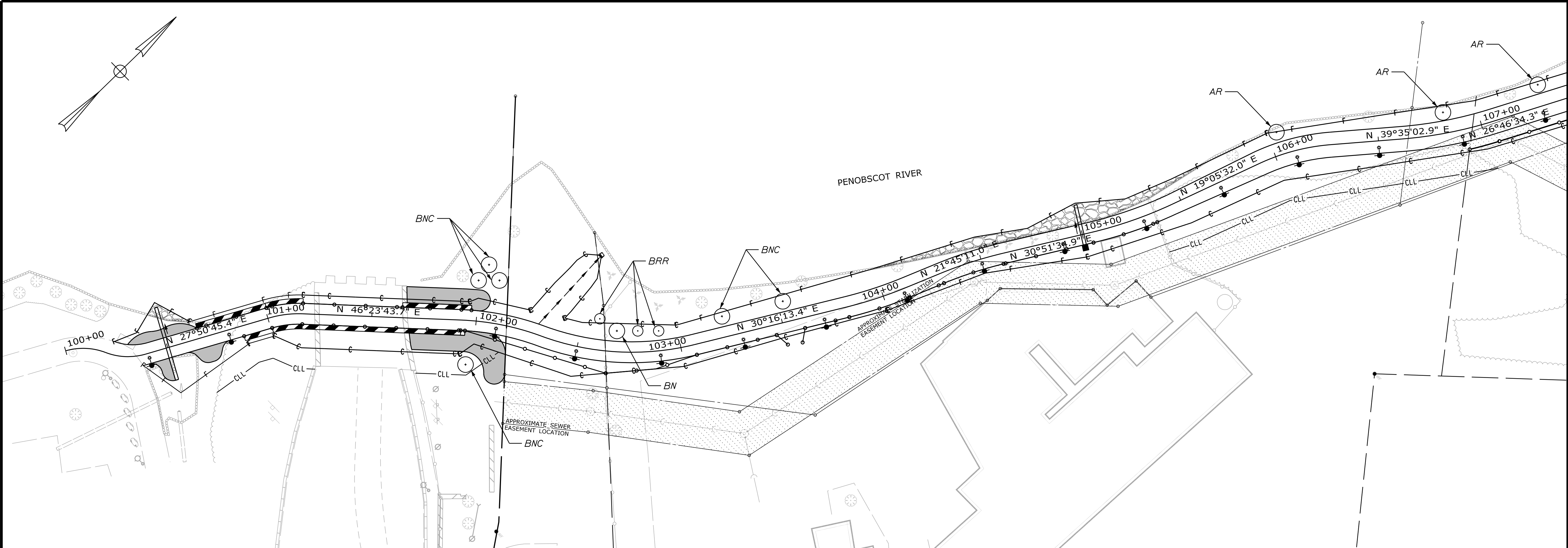
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
HPP-1885(800)		SIGNATURE	
WIN		P.E. NUMBER	
18858.00		DATE	
HIGHWAY PLANS		FIELD CHANGES	
BREWER RIVERWALK		SHEET NUMBER	
WESTBOUND DETOUR PLAN		36	
		OF 42	

Date:4/2/2018

Username:

Division: HIGHWAY

Filename: ... \MSTAO41_Landscape Plan.dgn



LANDSCAPE PLAN LEGEND

FLOWER BEDS

TREES

BETULA NIGRA
BETULA 'RENAISSANCE REFLECTION'
BETULA NIGRA SINGLE STEM/TREE FORM
ACER RUBRUM 'RED SUNSET'
MALUS 'DONALD WYMAN'
ABIES CONCOLOR
SYRINGA 'BETSY ROSS'

CLUMP/MULTISTEM (RIVER BIRCH CLUMP)
(RENAISSANCE REFLECTION' WHITE BIRCH)
(RIVER BIRCH TREE FORM)
(RED SUNSET' MAPLE)
(DONALD WYMAN' CRABAPPLE)
(WHITE FIR)
(BETSY ROSS' FLOWERING LILAC)

⊙ BNC
⊙ BRR
⊙ BN
⊙ AR
⊙ MDW
⊙ AC
⊙ SBR

NOTES:

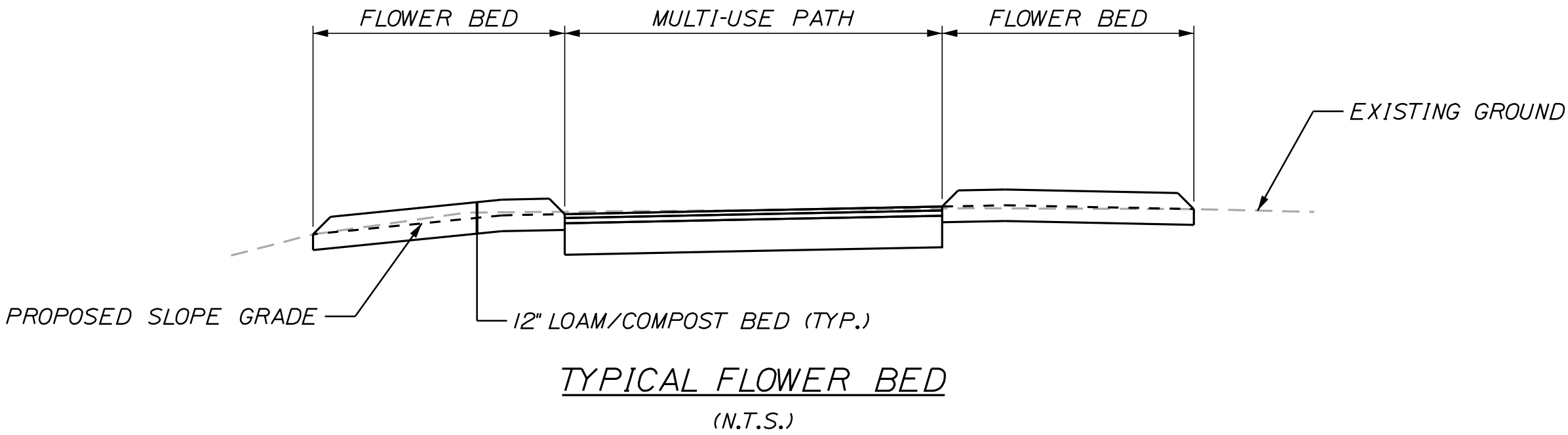
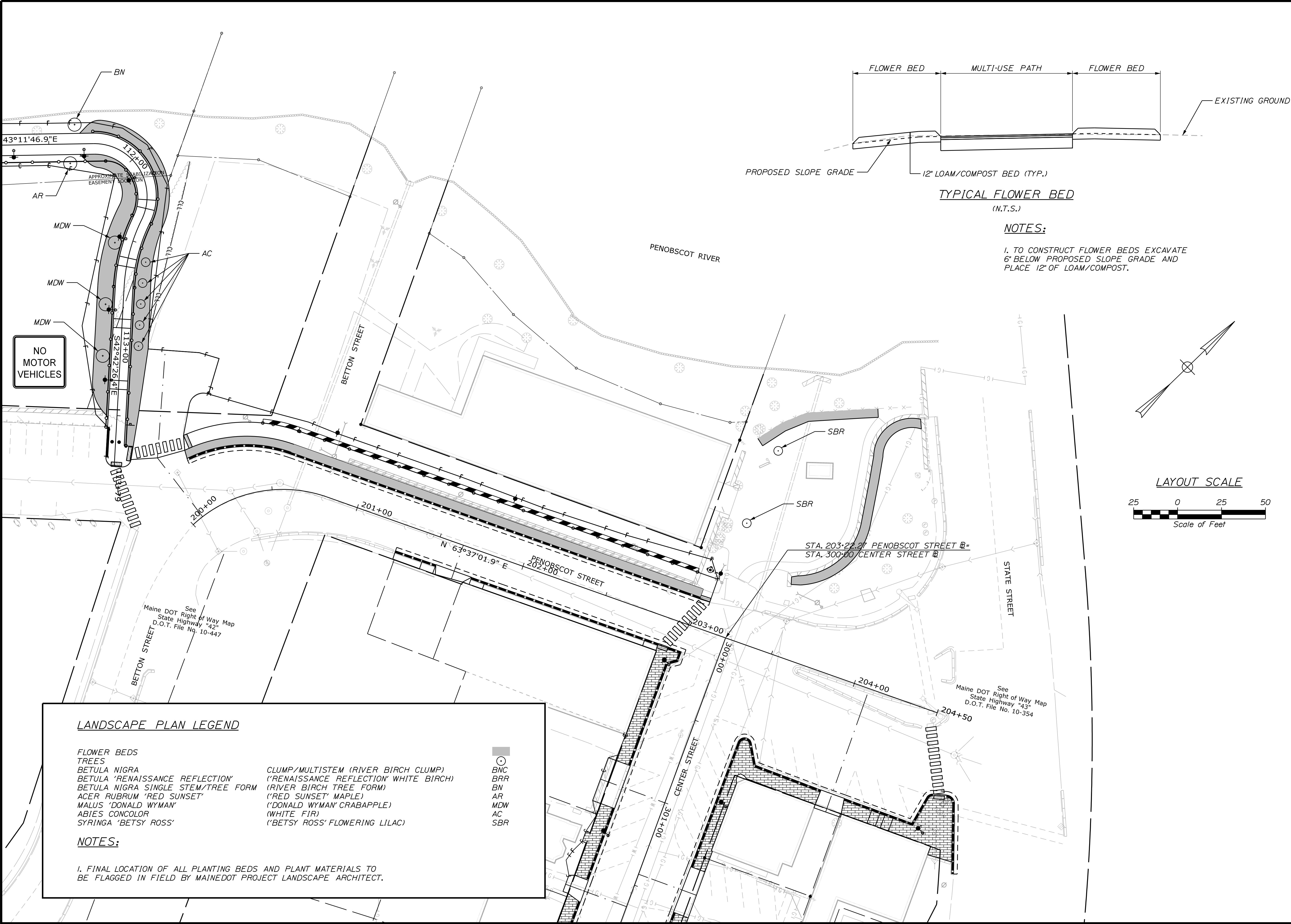
1. FINAL LOCATION OF ALL PLANTING BEDS AND PLANT MATERIALS TO BE FLAGGED IN FIELD BY MAINEDOT PROJECT LANDSCAPE ARCHITECT.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
HPP-1885(800)
WIN 18858.00
HIGHWAY PLANS

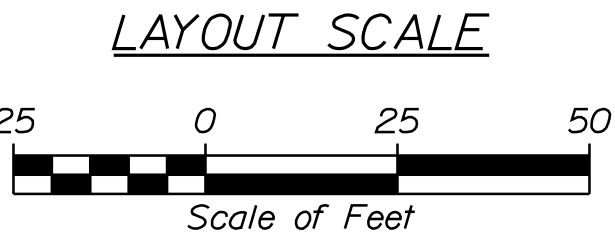
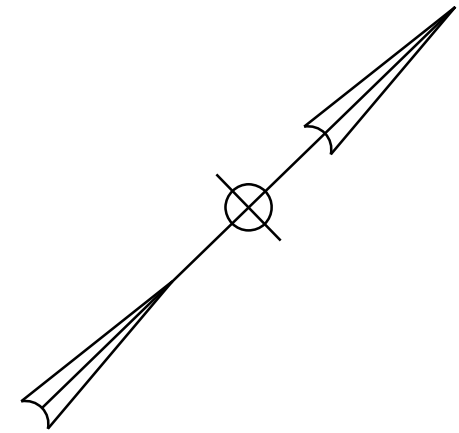
PROJ. MANAGER	CATHERINE RAND	BY	DATE
CHECKED-DETAILED	K. COOPER	T. WOLFEL	3/2018
DESIGNED-DETAILED	K. WOOD	J. WERTWORTH	3/2018
DESIGNED-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BREWER BREWER RIVERWALK LANDSCAPE PLAN
--

SHEET NUMBER
41
OF 42



NOTES:
 1. TO CONSTRUCT FLOWER BEDS EXCAVATE 6" BELOW PROPOSED SLOPE GRADE AND PLACE 12" OF LOAM/COMPOST.



LANDSCAPE PLAN LEGEND

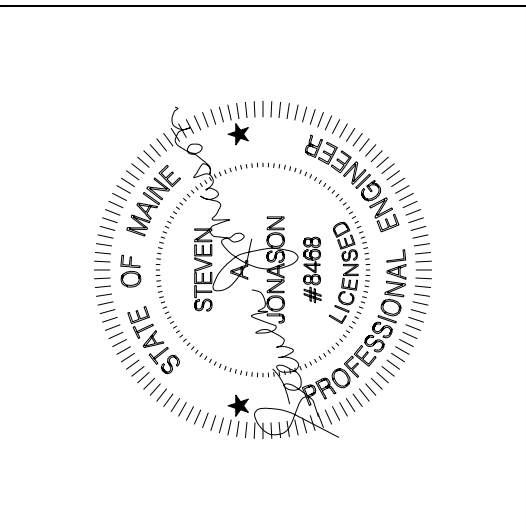
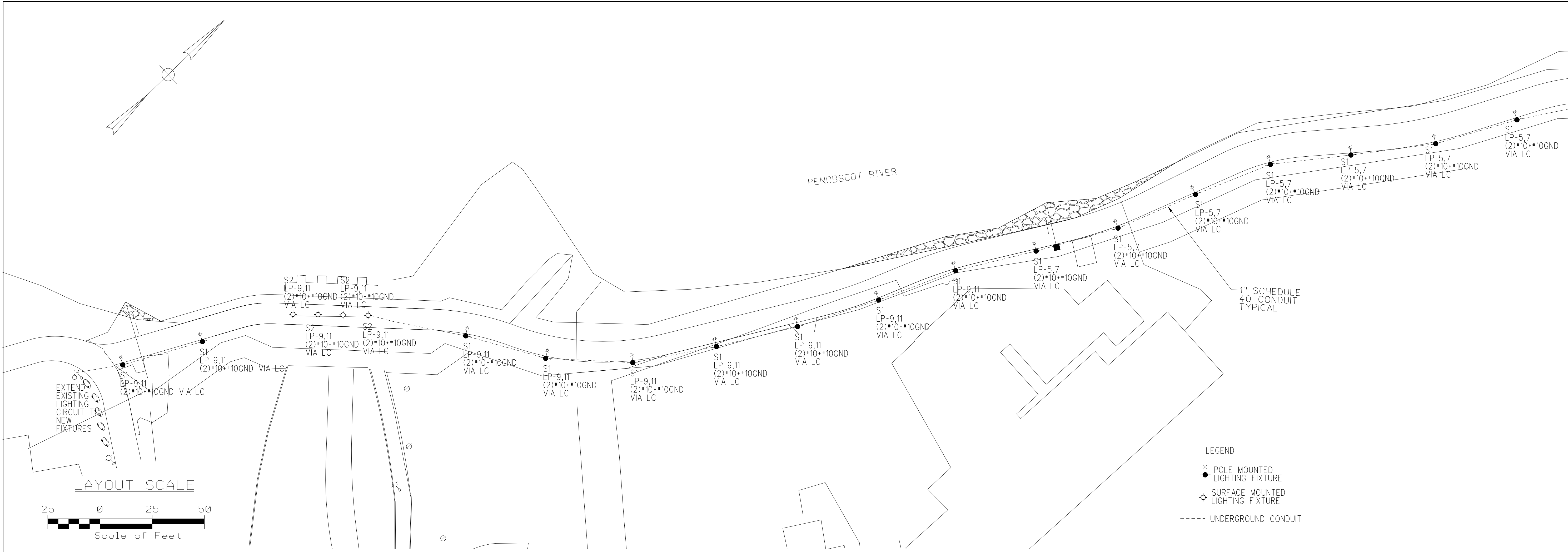
FLOWER BEDS
 TREES
 BETULA NIGRA
 BETULA 'RENAISSANCE REFLECTION'
 BETULA NIGRA SINGLE STEM/TREE FORM
 ACER RUBRUM 'RED SUNSET'
 MALUS 'DONALD WYMAN'
 ABIES CONCOLOR
 SYRINGA 'BETSY ROSS'

CLUMP/MULTISTEM (RIVER BIRCH CLUMP)
 ('RENAISSANCE REFLECTION' WHITE BIRCH)
 (RIVER BIRCH TREE FORM)
 ('RED SUNSET' MAPLE)
 ('DONALD WYMAN' CRABAPPLE)
 (WHITE FIR)
 ('BETSY ROSS' FLOWERING LILAC)

BNC
 BRR
 BN
 AR
 MDW
 AC
 SBR

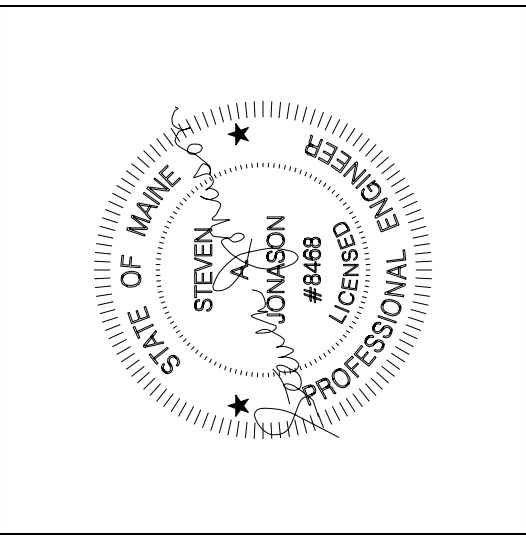
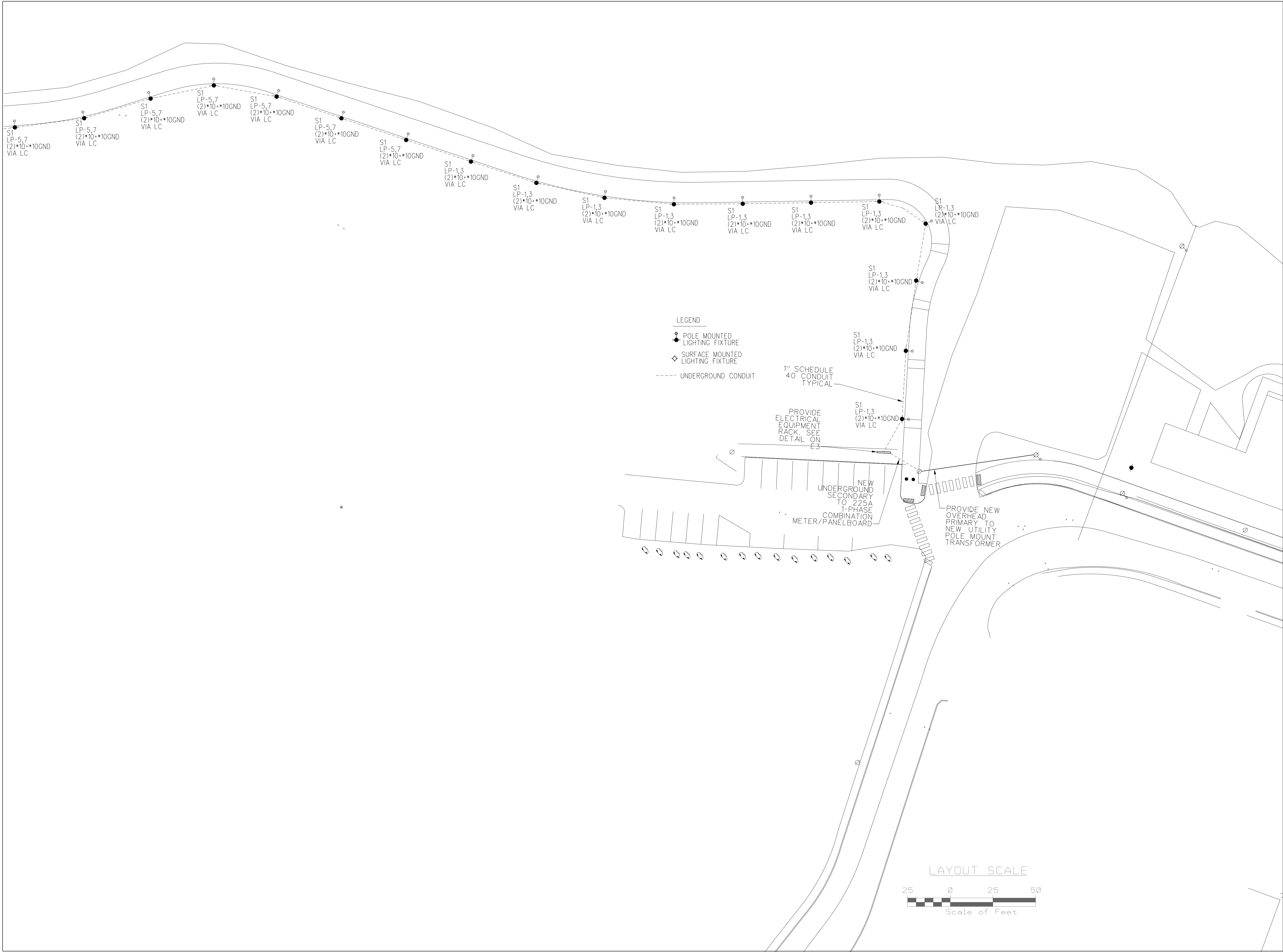
NOTES:
 1. FINAL LOCATION OF ALL PLANTING BEDS AND PLANT MATERIALS TO BE FLAGGED IN FIELD BY MAINEDOT PROJECT LANDSCAPE ARCHITECT.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	HPP-1885(800)		WIN 18858.00		HIGHWAY PLANS	
	SIGNATURE		P.E. NUMBER		DATE	
BREWER BREWER RIVERWALK LANDSCAPE PLAN		PROJ. MANAGER CATHERINE RAND	BY	DATE	SHEET NUMBER 42 OF 42	
		CHECKED-DETAILED J.K. COOPER	J. WOLFEL	3/2018		
		CHECKED-REVIEWED K. WOOD	J. WERTWORTH	3/2018		
		DESIGNS-DETAILED				
		DESIGNS-1				
		REVISIONS 2			FIELD CHANGES	
		REVISIONS 3				
		REVISIONS 4				



BREWER RIVERWALK	
Brewer, ME 04412	
Electrical Site Plan	

Date Drawn:	12/15/2017
Drawn By:	SAJ
Checked By:	SAJ
Revision:	1. 2. 3. 4. 5. 6. 7.
BEI Project No:	4017
Scale:	
Sht Num:	E-1



BREWER RIVERWALK	
Brewer, ME 04412	
Electrical Site Plan	

Date Drawn:	12/15/2017
Drawn By:	SAJ
Checked By:	SAJ
Revision:	1. 2. 3. 4. 5. 6. 7.
BEI Project No:	4017
Scale:	
Sht Num:	E-2

