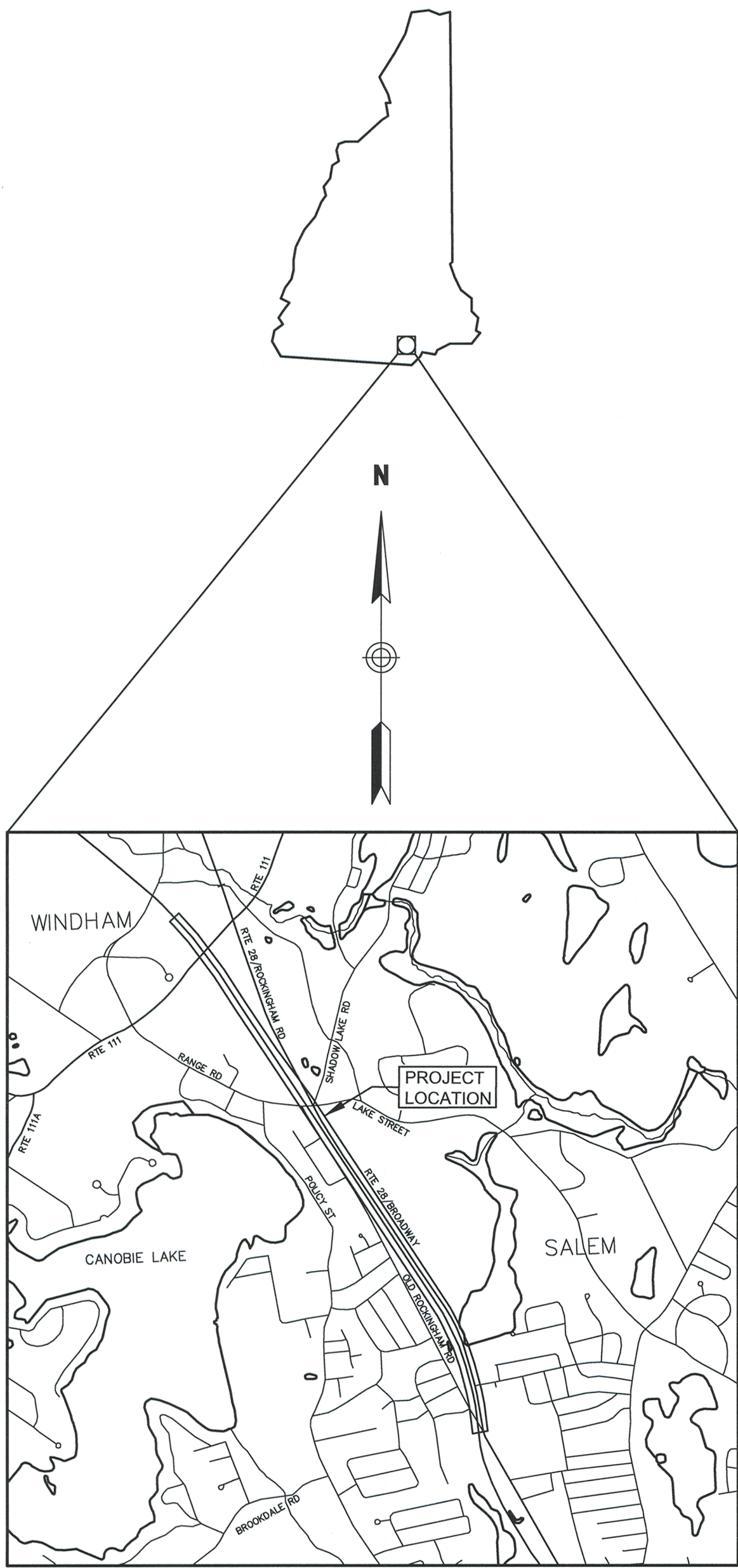


SDR PROCESSED	REVISIONS AFTER PROPOSAL			
	DATE	NUMBER	STATION	DESCRIPTION
	NEW DESIGN			
	SHEET CHECKED			
AS BUILT DETAILS	DATE			

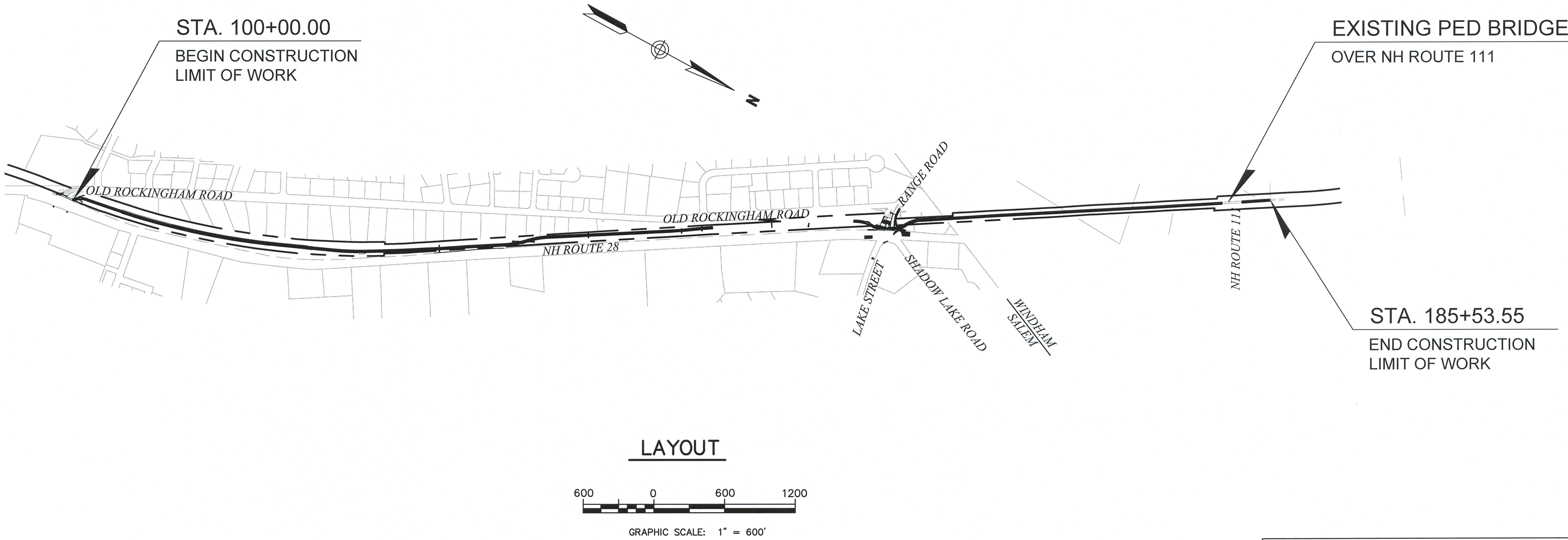
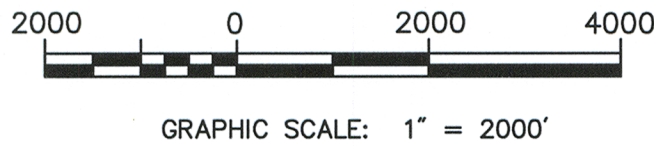
TOWNS OF SALEM AND WINDHAM, N.H.
COUNTY OF ROCKINGHAM

FINAL PLANS OF PROPOSED
SALEM-WINDHAM BICYCLE - PEDESTRIAN TRAIL
OLD ROCKINGHAM ROAD TO WINDHAM RAIL TRAIL
X - A001 (97)
NH PROJECT NO. 16031

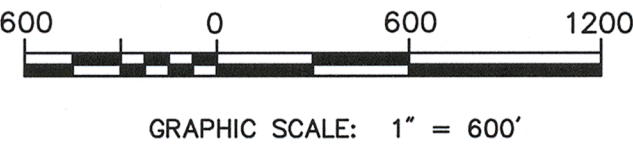
INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
01	COVER SHEET
02	LEGEND AND GENERAL NOTES
03-05	TYPICAL SECTIONS
06-08	DETAILS
09-24	GENERAL PLAN & PROFILE
25-26	SIGNAL PLAN - OLD ROCKINGHAM ROAD
27-28	SIGNAL PLAN - RANGE ROAD
29	SIGN SUMMARY
30-41	TRAIL CROSS SECTIONS
42	EROSION CONTROL DETAILS
43-58	EROSION CONTROL PLANS



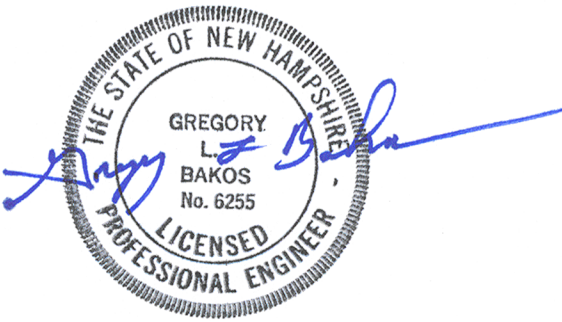
LOCATION MAP



LAYOUT



FINAL PLANS - 100%
July 14, 2015



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-CQV	-	01	58

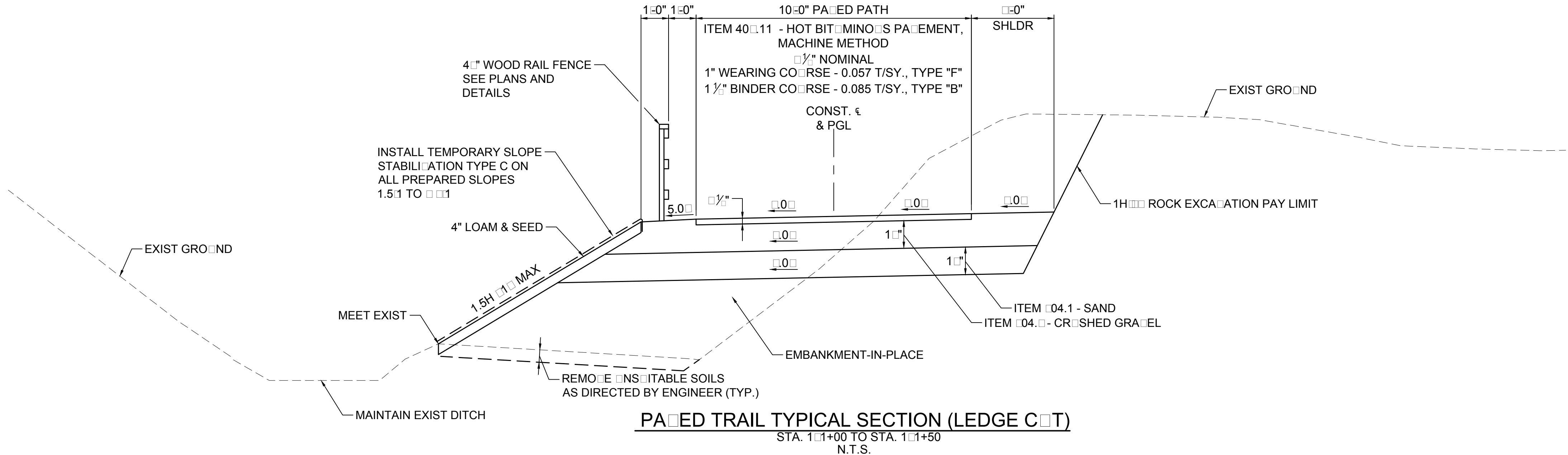
TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

COVER SHEET

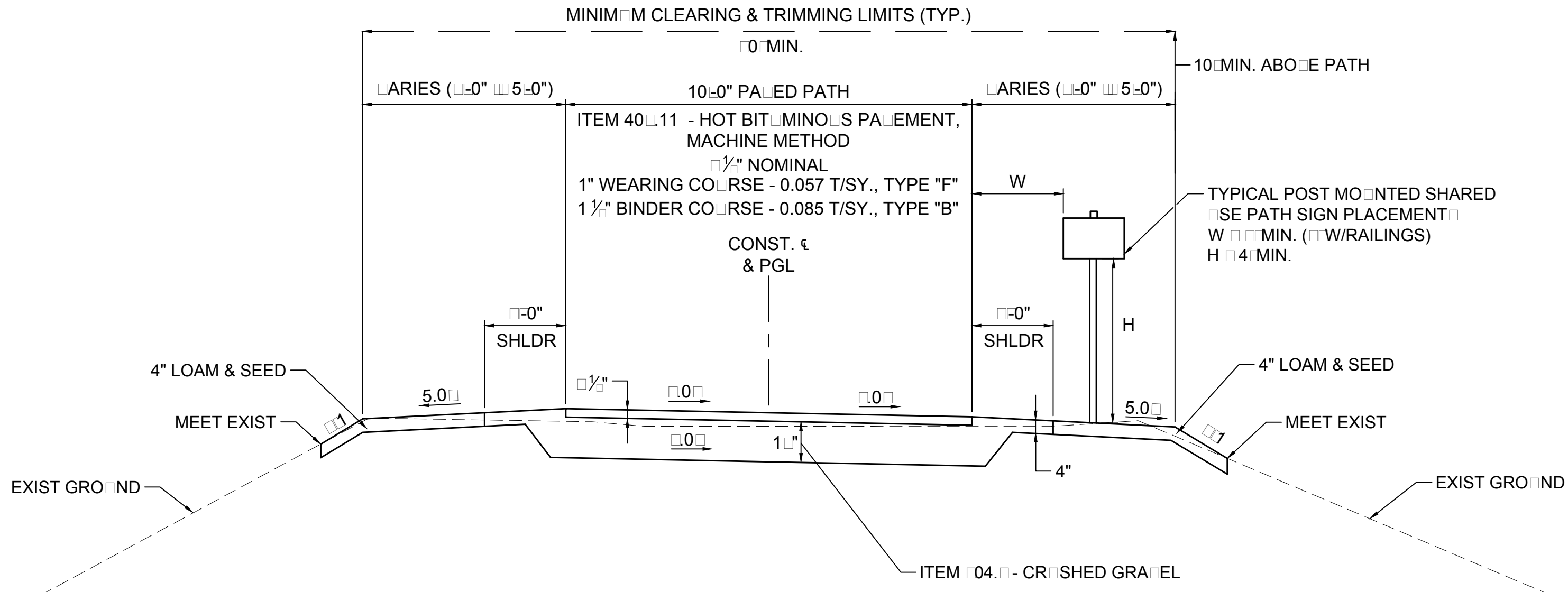
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SDR PROCESSED		REVISIONS - AFTER PROPOSAL			
		NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN	DATE				
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



PAVED TRAIL TYPICAL SECTION (LEDGE CUT)

STA. 1+00 TO STA. 1+50
N.T.S.



PAVED TRAIL TYPICAL SECTION (RAISED RAIL BED)

STA. 100+00 TO STA. 1+00
N.T.S.

NOTES

- BEGINNING AND END OF WOOD RAIL FENCE SHALL BE FLARED OVER A DISTANCE OF 10 FEET TO AN OFFSET OF 4 FEET FROM EDGE OF PAVED TRAIL.
- CLEARING AND GRUBBING SHALL INCLUDE CUTTING AND REMOVAL OF ALL TREE ROOTS WITHIN THE MINIMUM CLEARING WIDTH. TRIMMING OVERHANGING BRANCHES AND VEGETATION IS SUBSIDIARY TO CLEARING AND GRUBBING.
- LOAM AND SEED WILL BE PAID UNDER ITEM 646.51.

VHB Vanasse Hangen Brustlin, Inc.

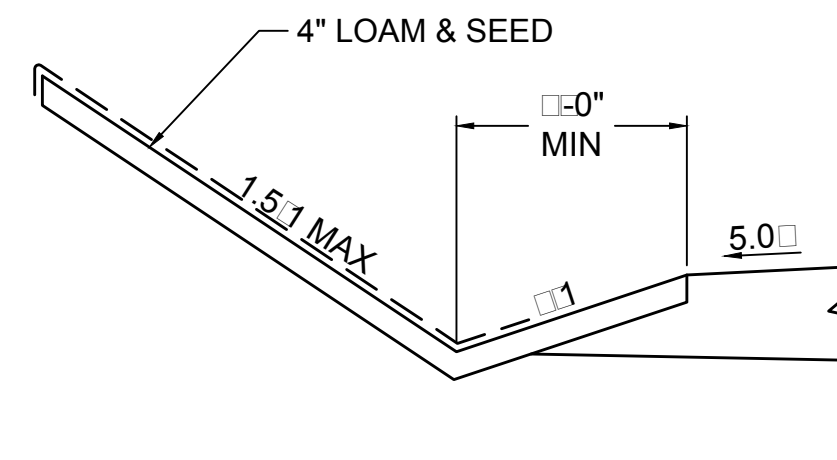
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-TYP	-	03	58

TOWN OF SALEM, NEW HAMPSHIRE

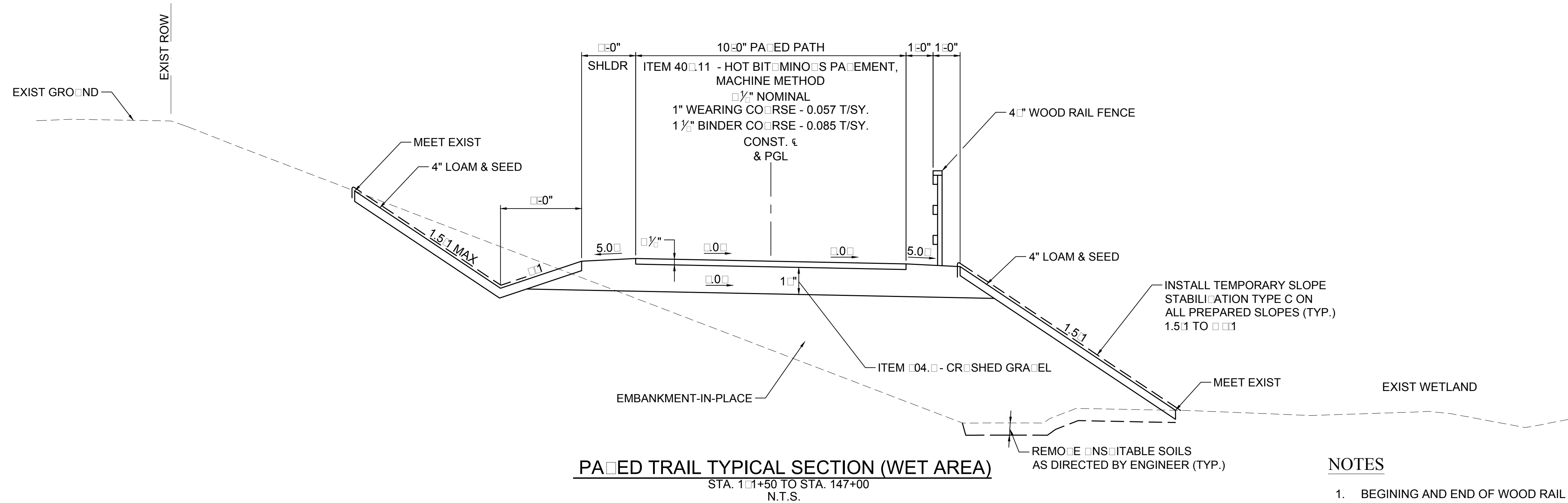
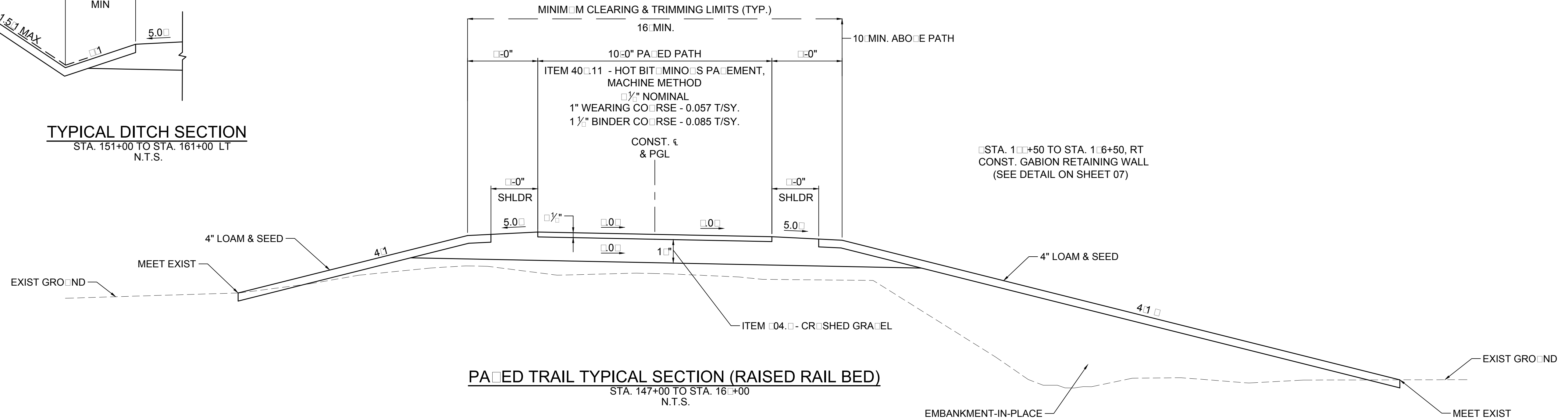
SALEM-WINDHAM PED/BIKE TRAIL

TYPICAL SECTIONS

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN	DATE	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



TYPICAL DITCH SECTION

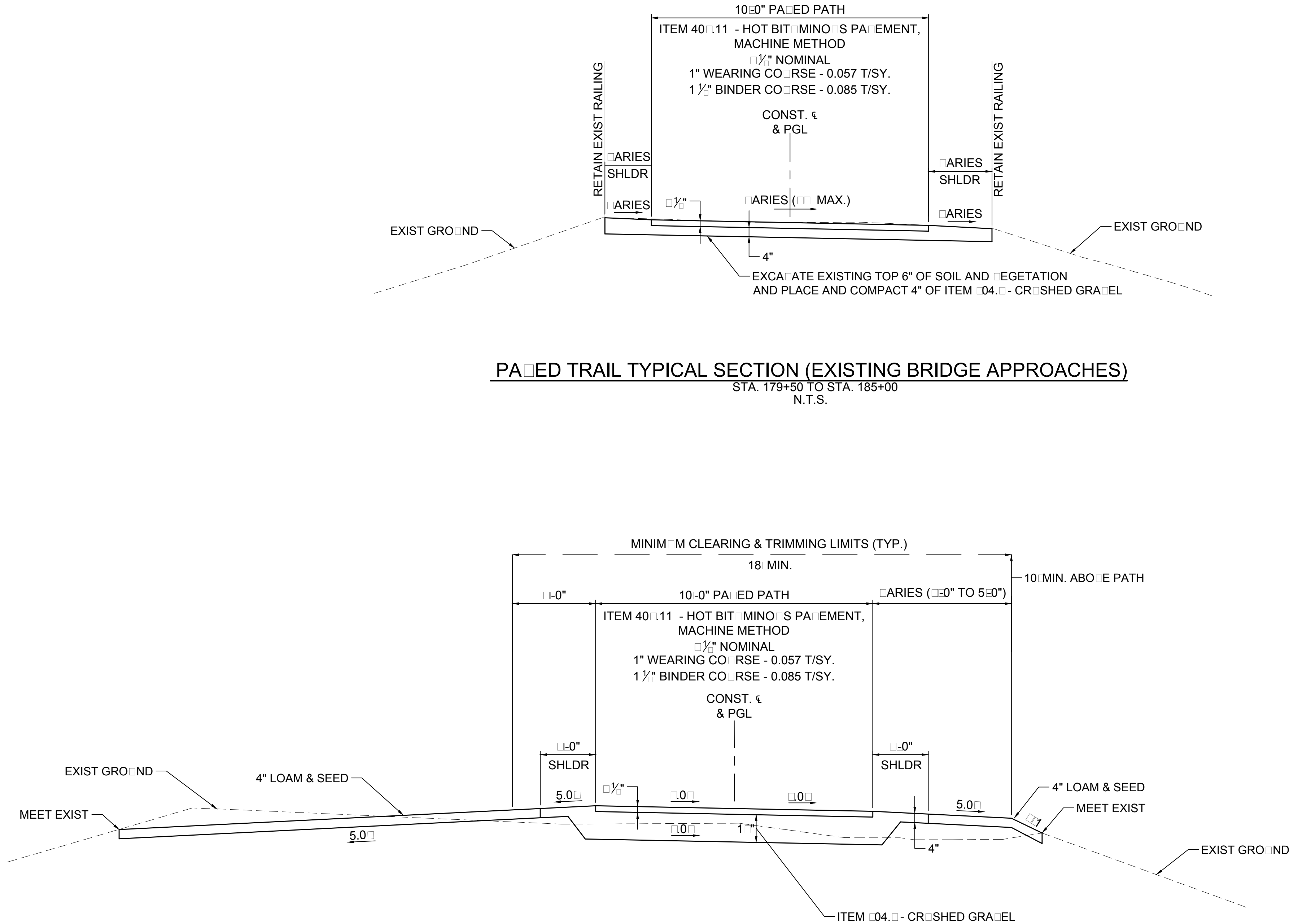


NOTES

1. BEGINNING AND END OF WOOD RAIL FENCE SHALL BE FLARED OVER A DISTANCE OF 10 FEET TO AN OFFSET OF 10 FEET FROM EDGE OF PADDED TRAIL. SEE PLANS FOR FENCE LOCATIONS.
2. CLEARING AND GRUBBING SHALL INCLUDE CUTTING AND REMOVAL OF ALL TREE ROOTS WITHIN THE MINIMUM CLEARING WIDTH. TRIMMING OVERHANGING BRANCHES AND VEGETATION IS SUBSIDIARY TO CLEARING AND GRUBBING.
3. LOAM AND SEED WILL BE PAID UNDER ITEM 646.51.

VHB <i>Vanasse Hangen Brustlin, Inc.</i>		TYPICAL SECTIONS			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-TYP	—	04	58

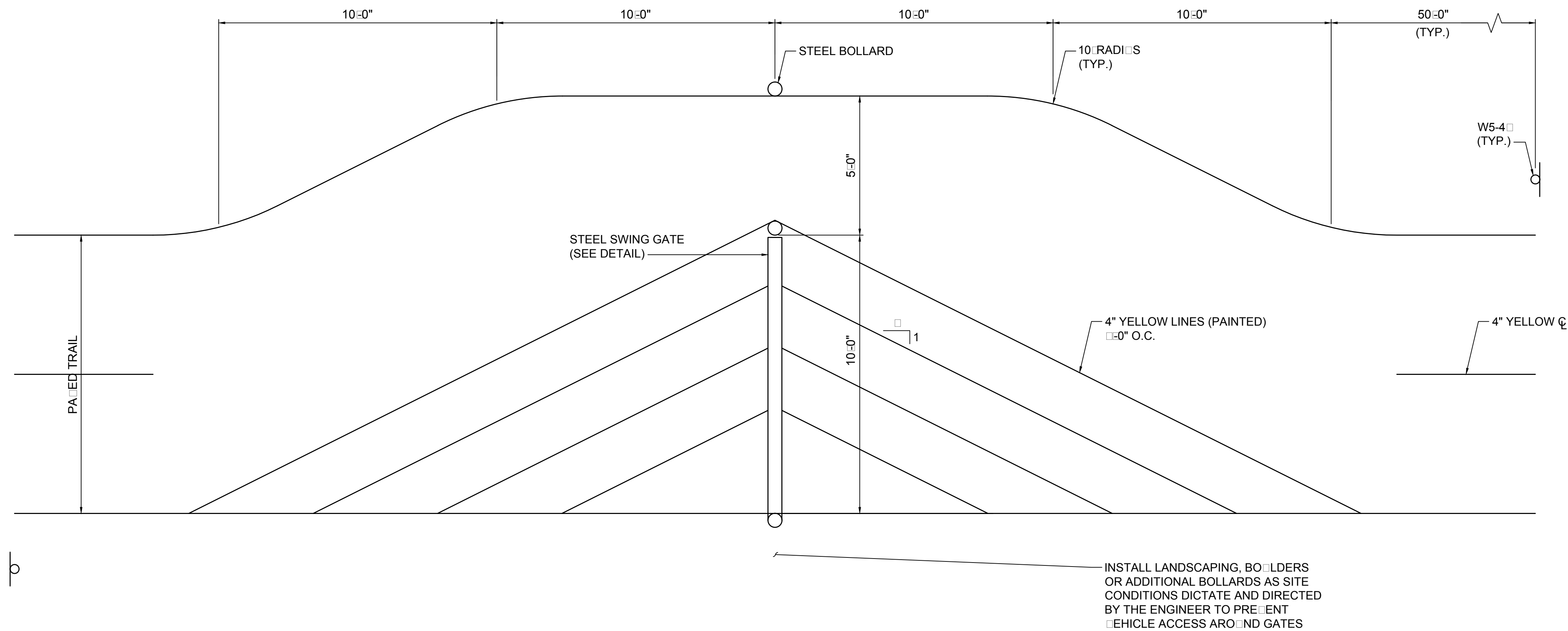
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		NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN					
SHEET CHECKED					
AS BUILT DETAILS					



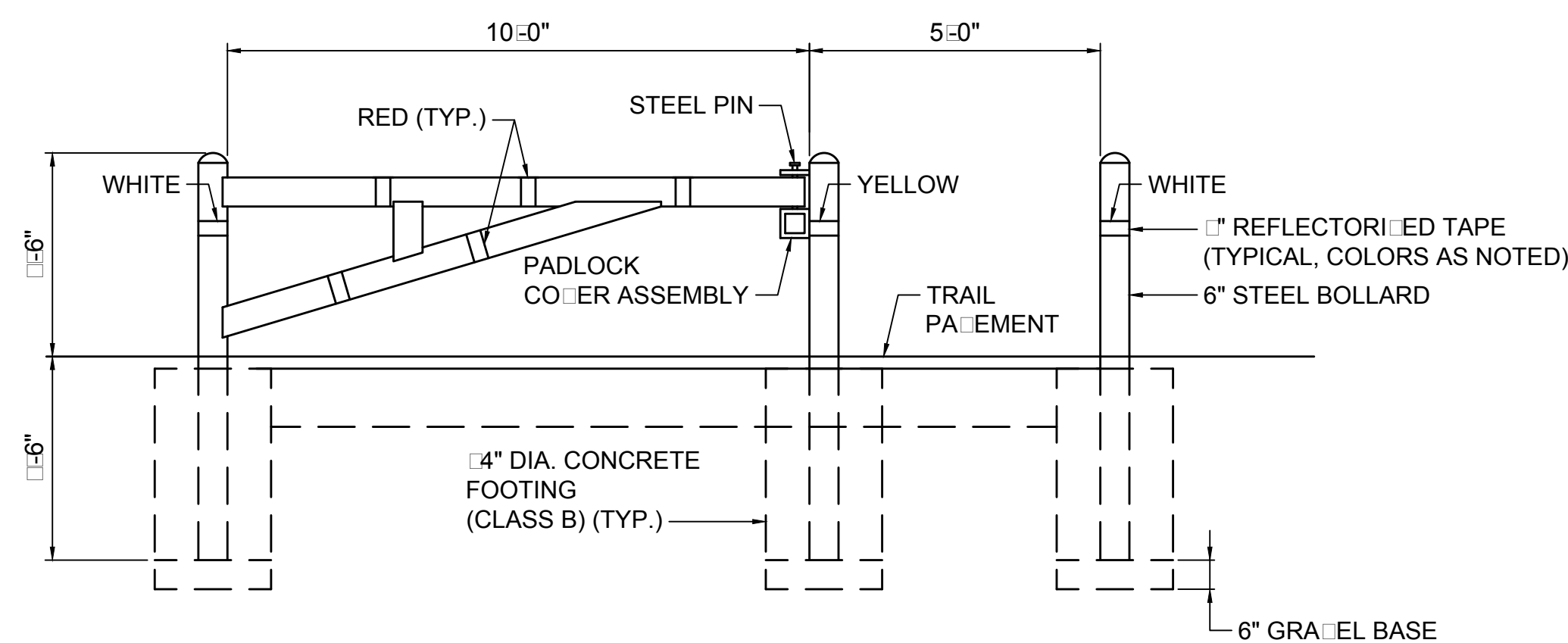
- NOTES
- 1. BEGINING AND END OF WOOD RAIL FENCE SHALL BE FLARED OVER A DISTANCE OF 10 FEET TO AN OFFSET OF 4 FEET FROM EDGE OF PAVED TRAIL.
 - 2. CLEARING AND GRUBBING SHALL INCLUDE CUTTING AND REMOVAL OF ALL TREE ROOTS WITHIN THE MINIMUM CLEARING WIDTH. TRIMMING OVERHANGING BRANCHES AND VEGETATION IS SUBSIDIARY TO CLEARING AND GRUBBING.
 - 3. LOAM AND SEED WILL BE PAID UNDER ITEM 646.51.

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
TYPICAL SECTIONS					
VHB Vanasse Hangen Brustlin, Inc.		DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
DATE PLOTTED		52304.00	52304-TYP	05	58
14-Jul-15					

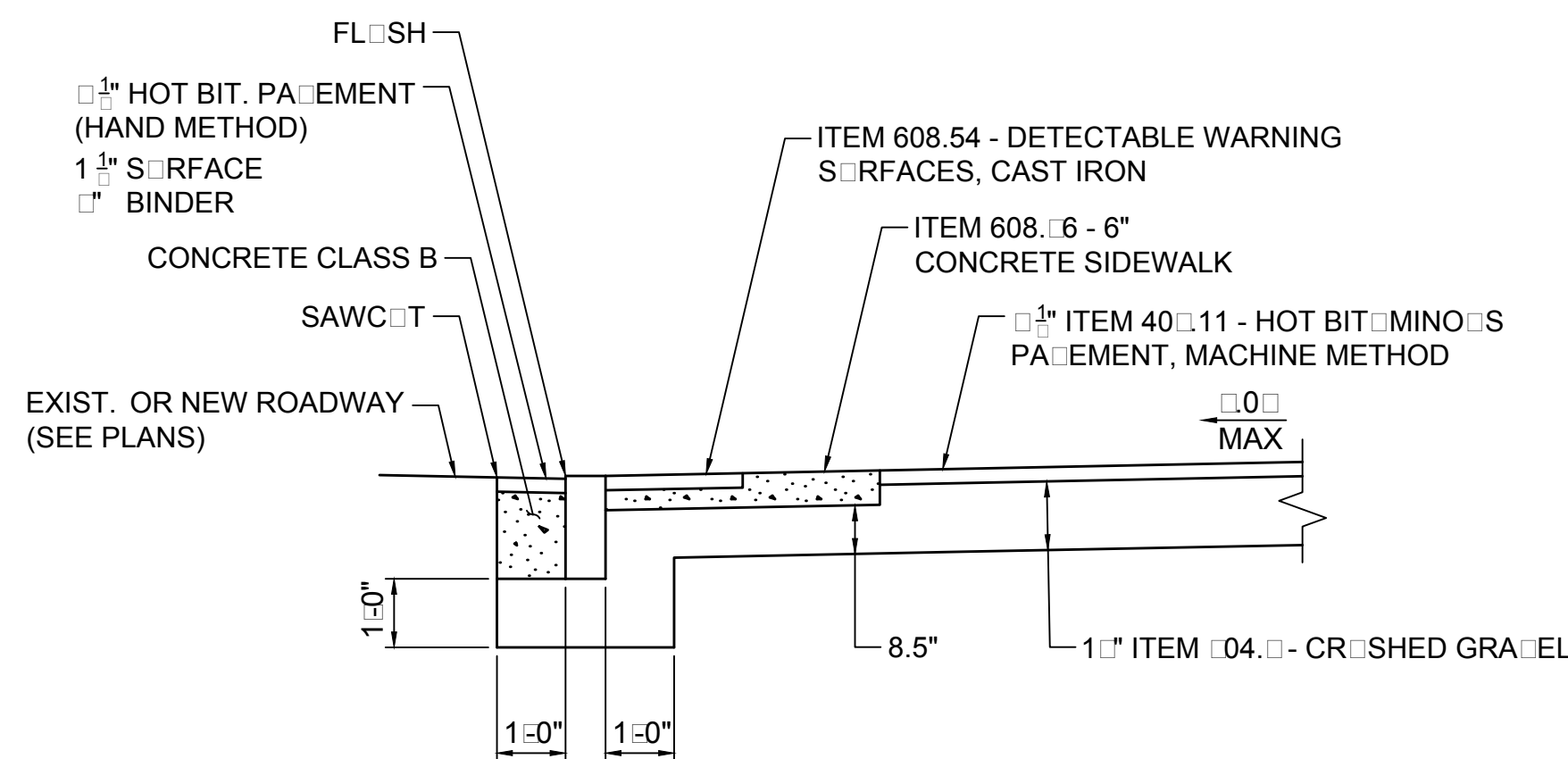
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SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



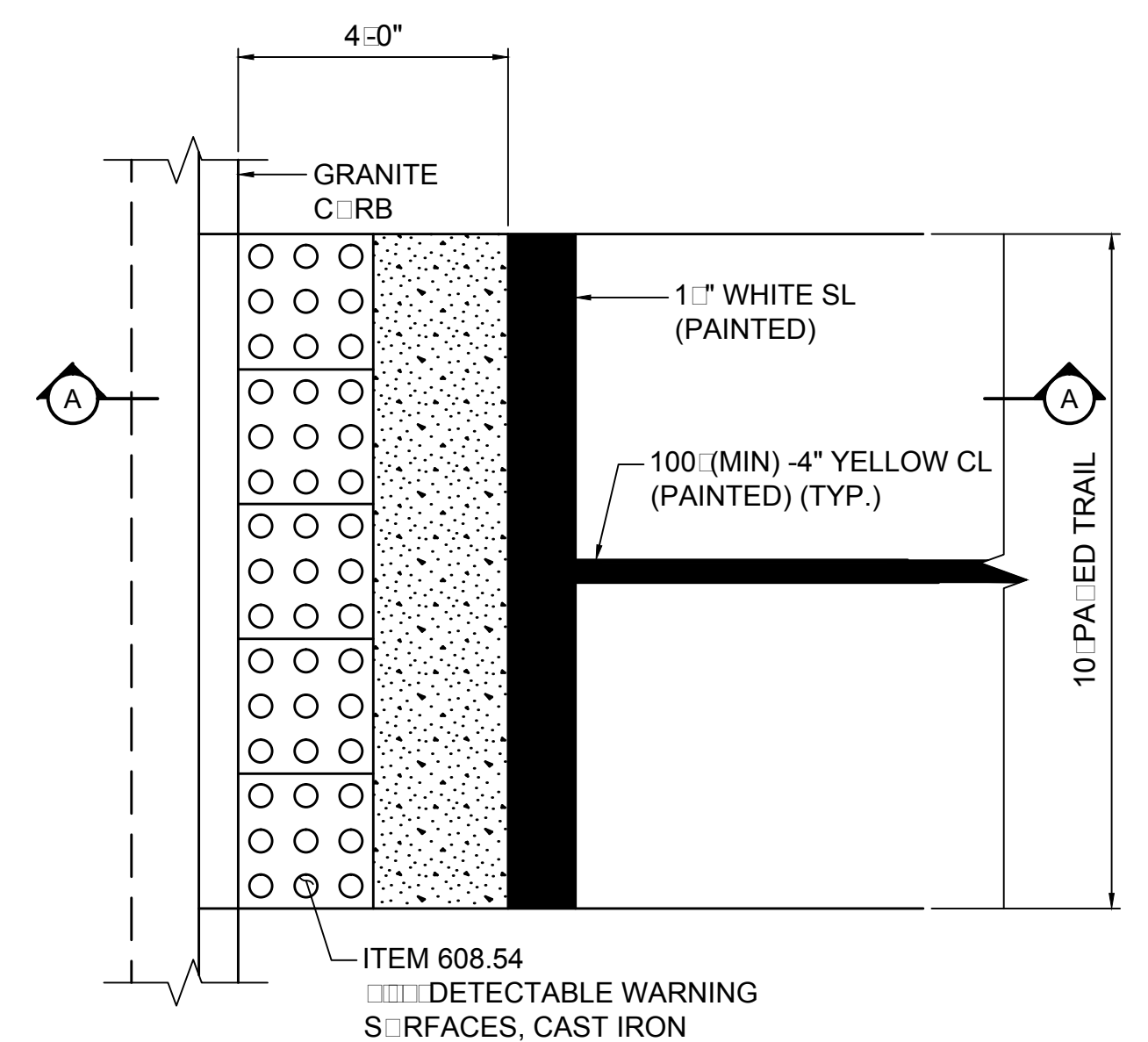
SECURITY GATE INSTALLATION PLAN
(SEE PLANS FOR LOCATIONS)
N.T.S.



SECURITY GATE INSTALLATION DETAIL



SECTION A-A

PLAN ☐IEW

TRAIL ENTRANCE AT ROAD CROSSINGS

- NOTES:

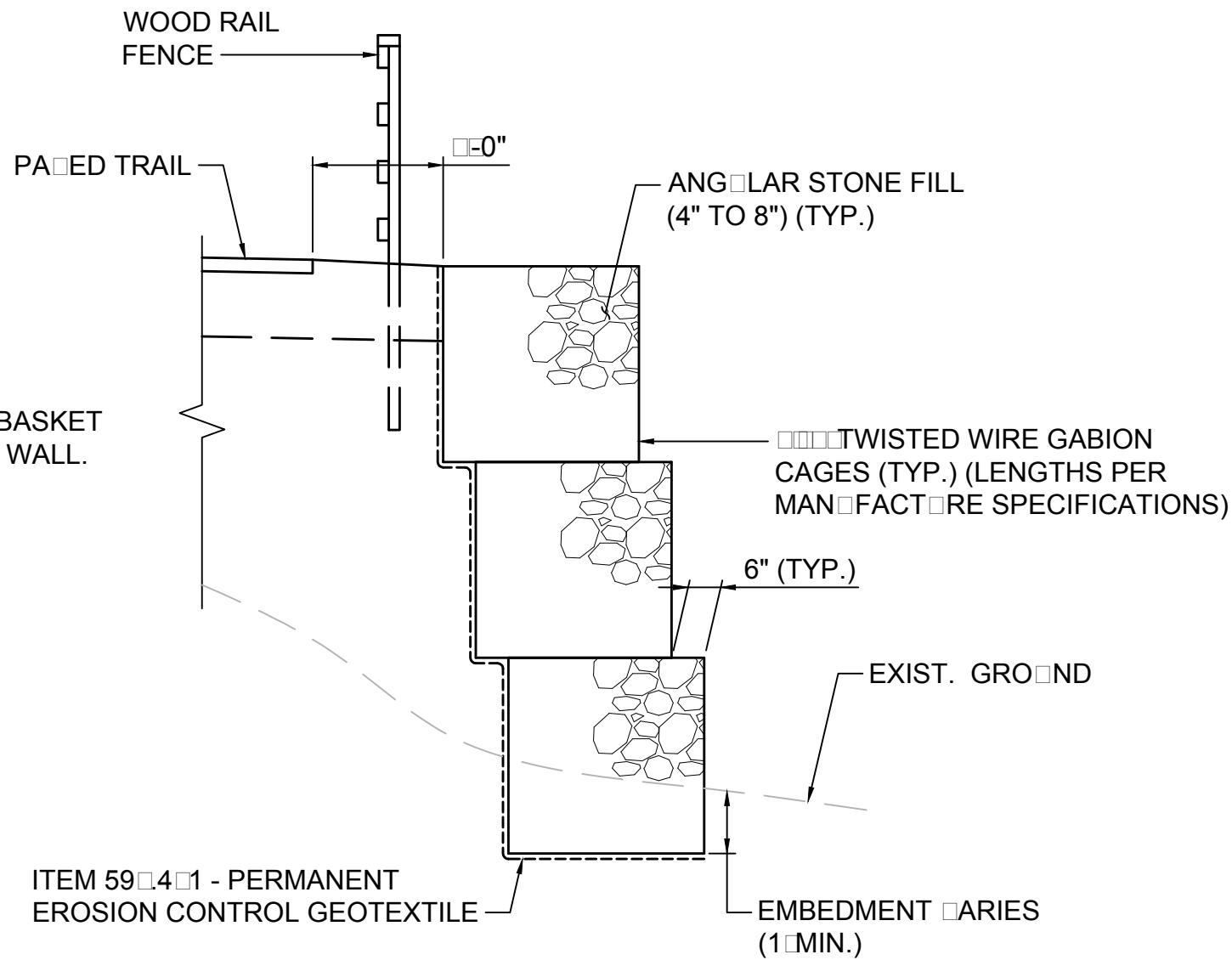
1. GATES AND POSTS SHALL BE HOT DIPPED GALVANIZED STEEL PAINTED GLOSS YELLOW. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUTS FOR APPROVAL PRIOR TO FABRICATION.
- ☐ STEEL POSTS AND SWING ARMS SHALL BE 5" O.D. MINIMUM.
- ☐ CONCRETE FOOTINGS AND GRAVEL BASE ARE SUBSIDIARY TO SECURITY GATE AND STEEL BALLARDS.
4. SECURITY GATES SHALL INCLUDE LOCKS AND KEYS AS SPECIFIED.

VHB <i>Vanasse Hangen Brustlin, Inc.</i>		DETAIL SHEET (1 OF 1)			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-DETAILS	-	06	58

REVISIONS AFTER PROPOSAL		DESCRIPTION	
		STATION	
SDR PROCESSED	DATE	NUMBER	DATE
	NEW DESIGN		
	SHEET CHECKED		
	AS BUILT DETAILS		

NOTE:

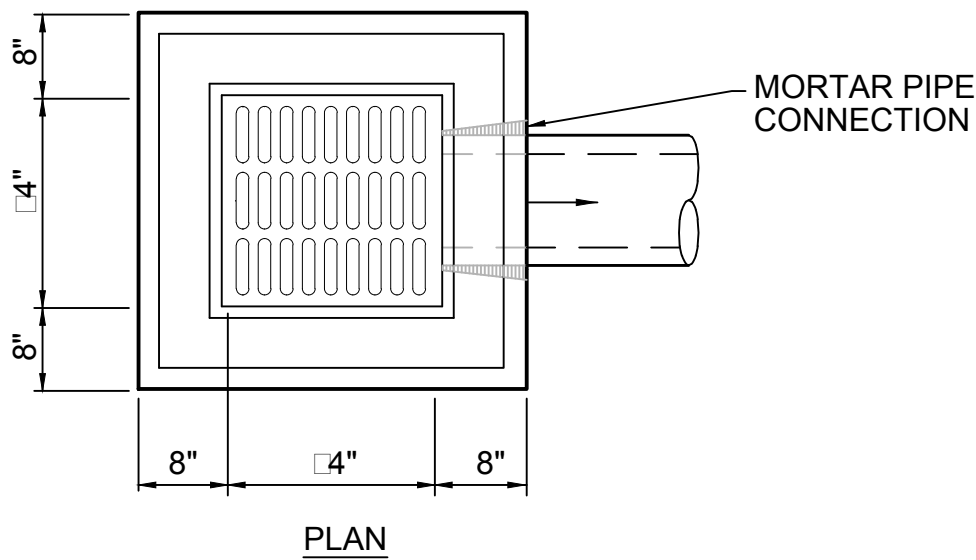
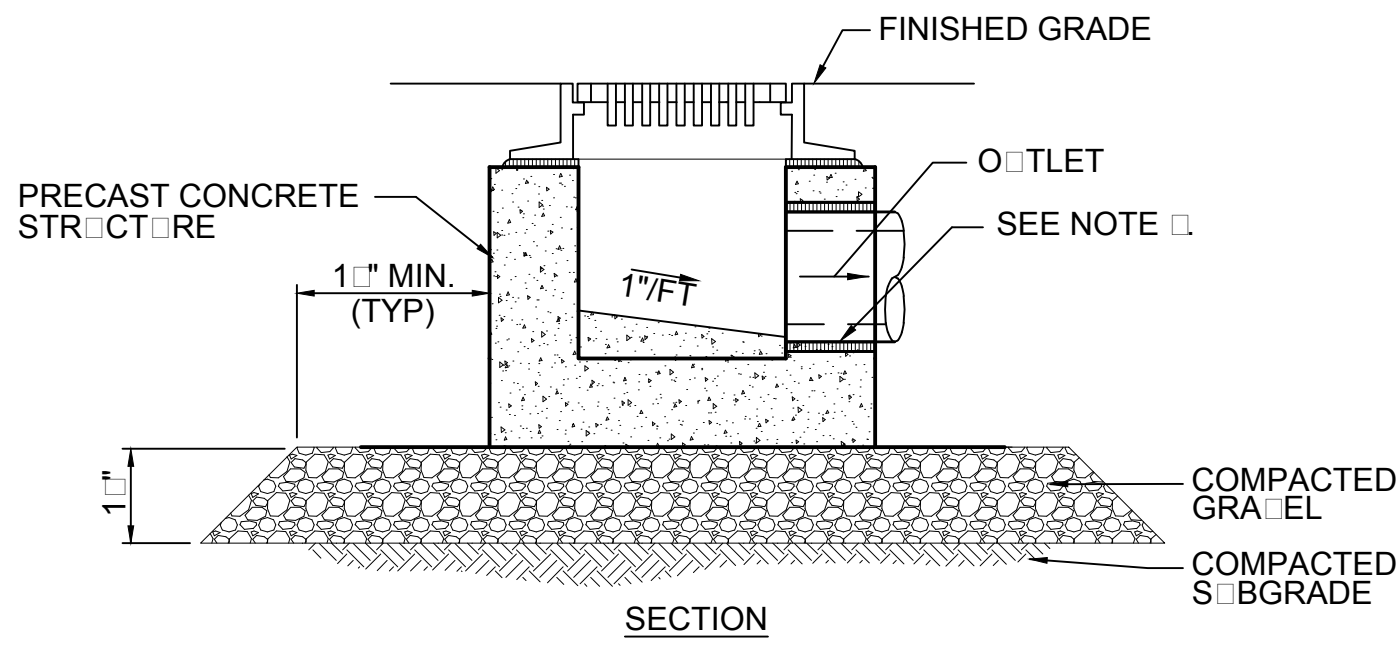
- FOLLOW GABION MANUFACTURERS APPROVED RECOMMENDATION ON BASKET DIMENSIONS FOR GIVEN HEIGHT OF WALL.



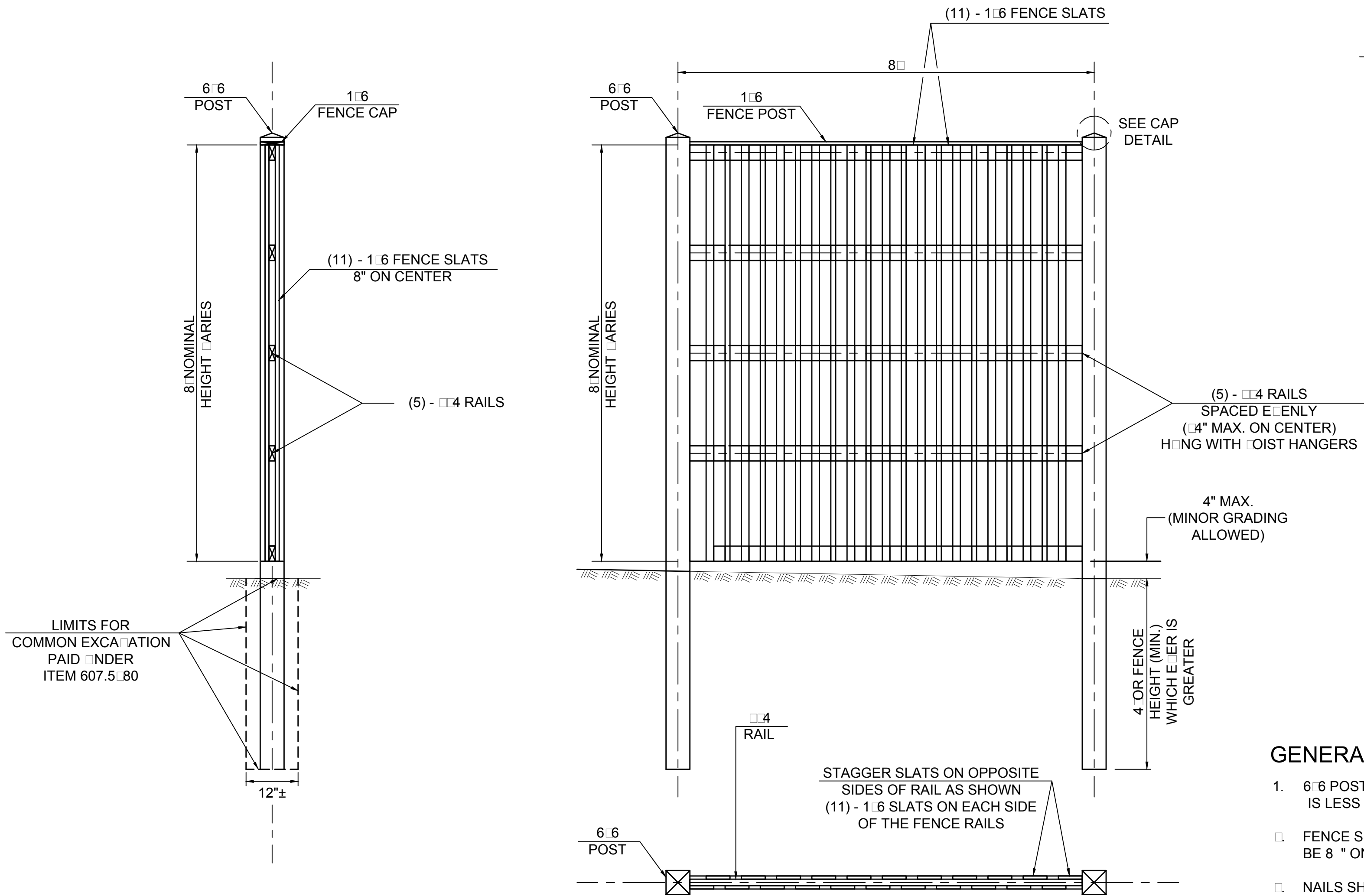
ITEM 584.0 - GABION RETAINING WALL DETAIL
N.T.S.

NET NOTES:

- FRAMES AND GRATES SHALL BE SET IN FULL BED OF MORTAR. ADJUST TO GRADE WITH CLAY BRICKS AND/OR CONCRETE BLOCKS AND MORTAR AS REQUIRED.
- CONSTRUCTION MATERIAL FOR STRUCTURE TO CONSIST OF PRECAST CONCRETE DESIGNED FOR H-10 LOADING. (CONTRACTOR'S LOADING)
- PROVIDE OPENINGS FOR PIPES WITH 1" CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
- GRAVEL SETTING BED IS SUBSIDIARY TO ITEM 604.09



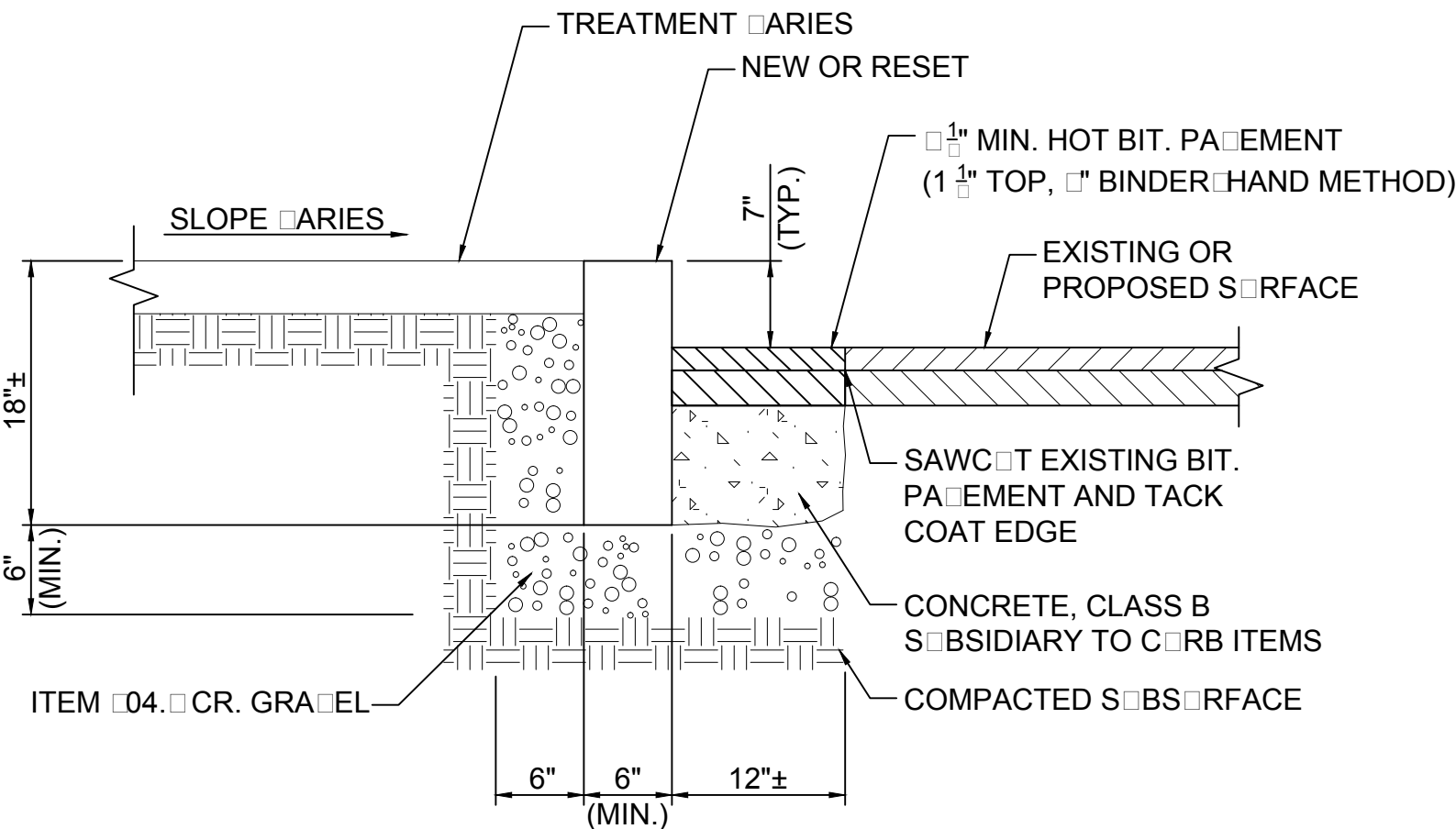
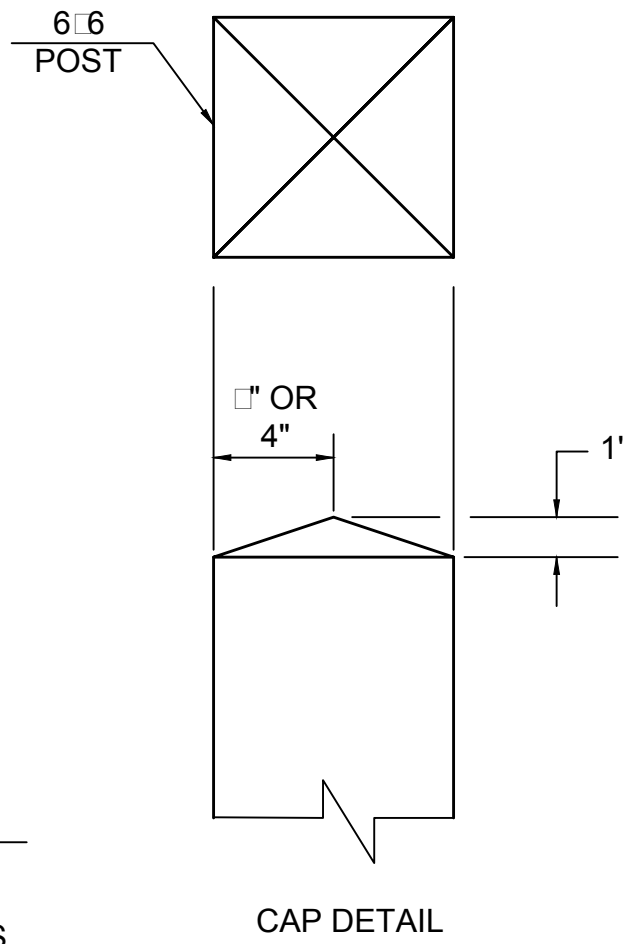
ITEM 604.09 - DROP INLET - SPECIAL, TYPE B
N.T.S.



ITEM 607.580 - SHADOW BOX FENCE DETAIL
N.T.S.

GENERAL NOTES

- 6x6 POSTS SHALL BE USED WHEN THE FENCE HEIGHT IS LESS THAN 86".
- FENCE SLAT SPACING FOR 6x6 POSTS SHALL BE 8" ON CENTER.
- NAILS SHALL BE 10d. TWO (2) NAILS SHALL BE USED PER FENCE SLAT TO FASTEN THEM PER FENCE RAIL.
- IF POST IS SET IN ROCK, FILL THE EXCAVATION (PAID AS ROCK EXCAVATION) WITH CONCRETE CLASS B SUBSIDIARY TO ITEM 607.580.0



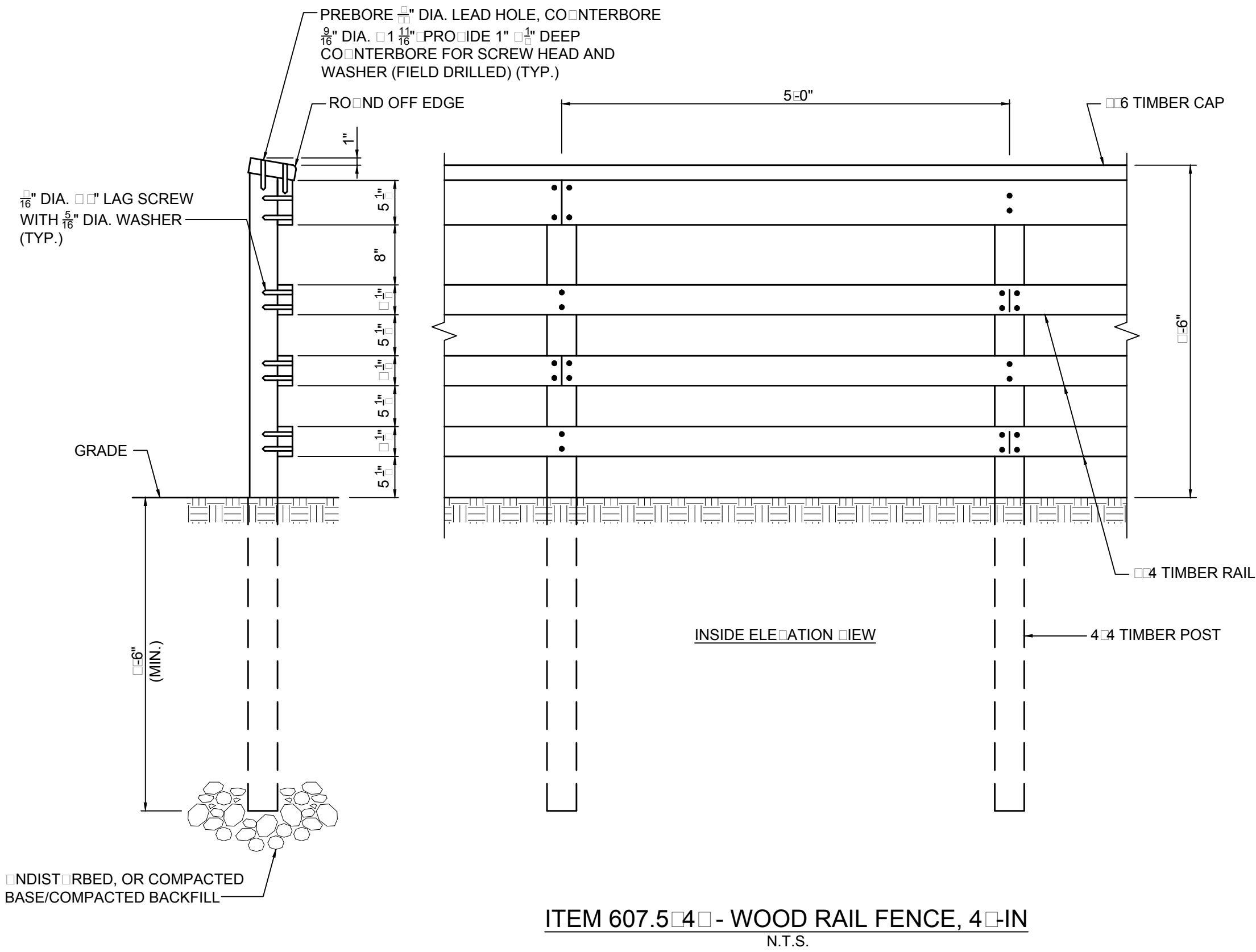
VERTICAL GRANITE CURB SET IN EXISTING PAVEMENT
N.T.S.

VHB Vanasse Hangen Brustlin, Inc.					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-DETAILS_02	-	07	58

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
DETAIL SHEET (1 OF 1)					

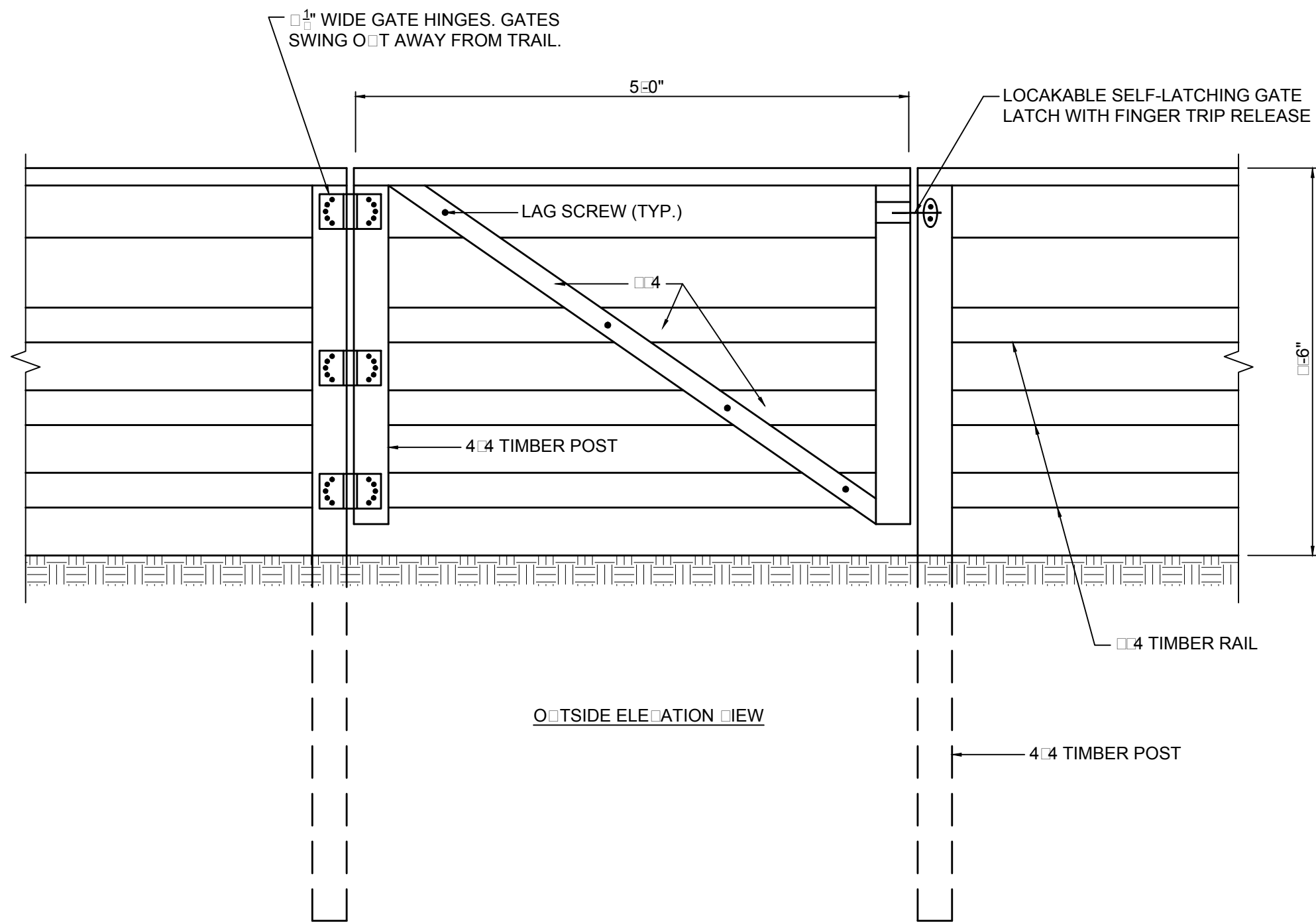
REVISIONS AFTER PROPOSAL				DESCRIPTION	
NUMBER	DATE	STATION	STATION		

SDR PROCESSED	DATE	
NEW DESIGN	DATE	
SHEET CHECKED	DATE	
AS BUILT DETAILS	DATE	



GENERAL NOTES:

- ALL POSTS SHALL CONFORM TO 709.01 - STRUCTURAL LUMBER AND TIMBER, AND ALL OTHER LUMBER SHALL CONFORM TO 709.02 - NON STRUCTURAL LUMBER. ALL HARDWARE SHALL BE GALVANIZED.
- ALL WOOD SHALL BE PRESSURE TREATED.
- CONSTRUCT 15x11H CLASS B CONCRETE FOOTING FOR POSTS THAT FALL ON CATTLE PASS STRUCTURE AT STA. 17+00. CONCRETE IS SUBSIDIARY TO ITEM 607.514.

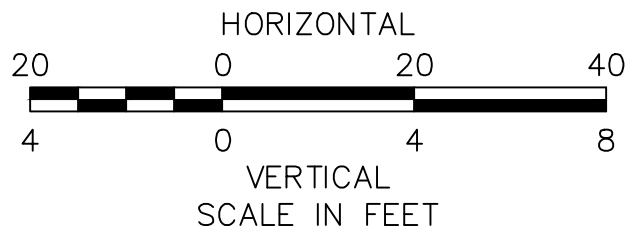
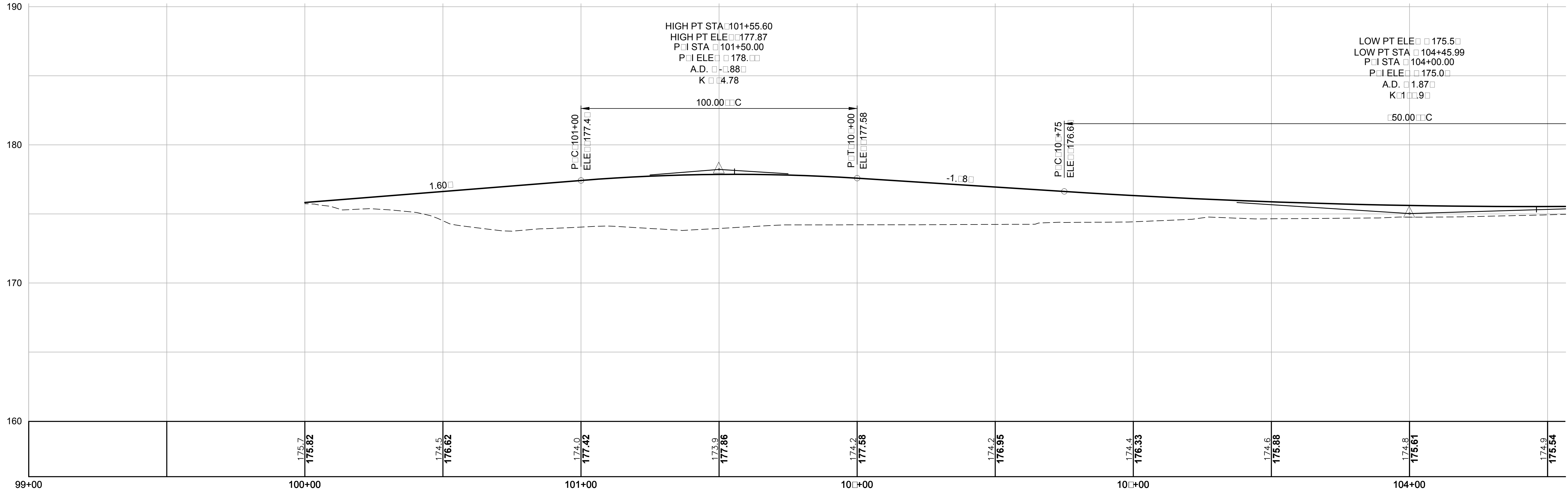
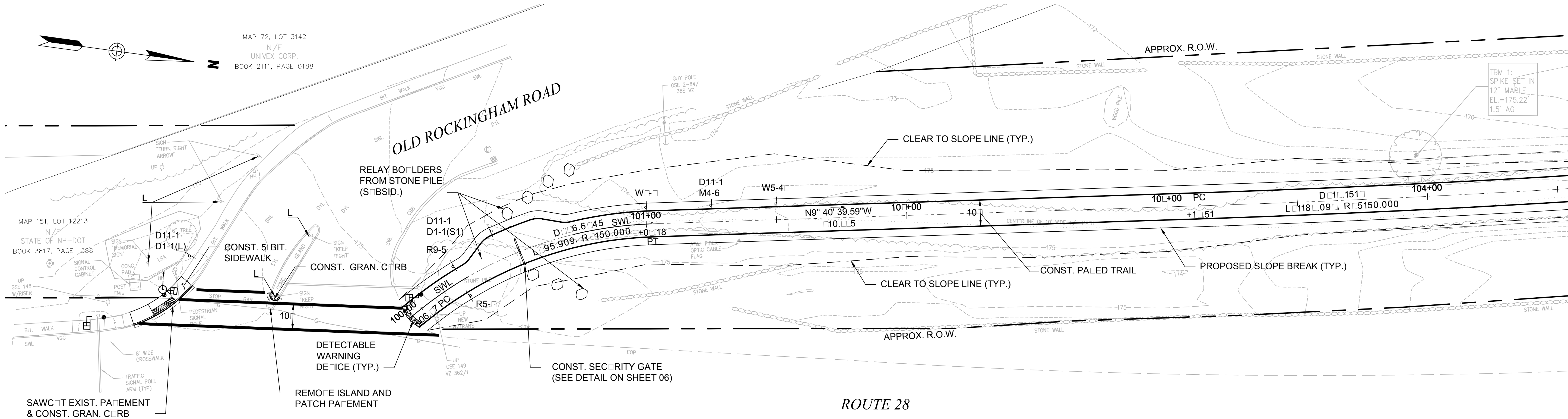


STA. 16+8 LT +/-
STA. 17+00 RT +/-
STA. 14+60 RT +/-
STA. 145+05 RT +/-
N.T.S.

NOTE NOTES:

- ALL HARDWARE SHALL BE GALVANIZED.
- ALIGN ALL HORIZONTAL TIMBER RAIL AND CAP GATE COMPONENTS WITH ADJACENT WOOD RAIL FENCE COMPONENTS AS SHOWN.

SDR PROCESSED		REVISIONS AFTER PROPOSAL		DATE
		NUMBER	DESCRIPTION	
NEW DESIGN		STATION		
SHEET CHECKED				
AS BUILT DETAILS				



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	09	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

GENERAL PLAN & PROFILE

REVISIONS: AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

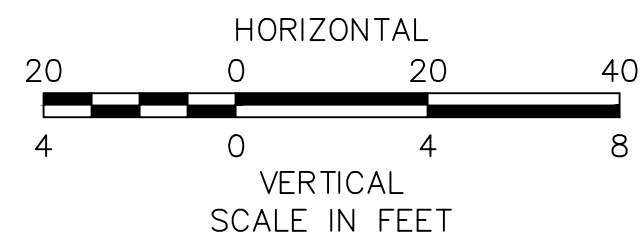
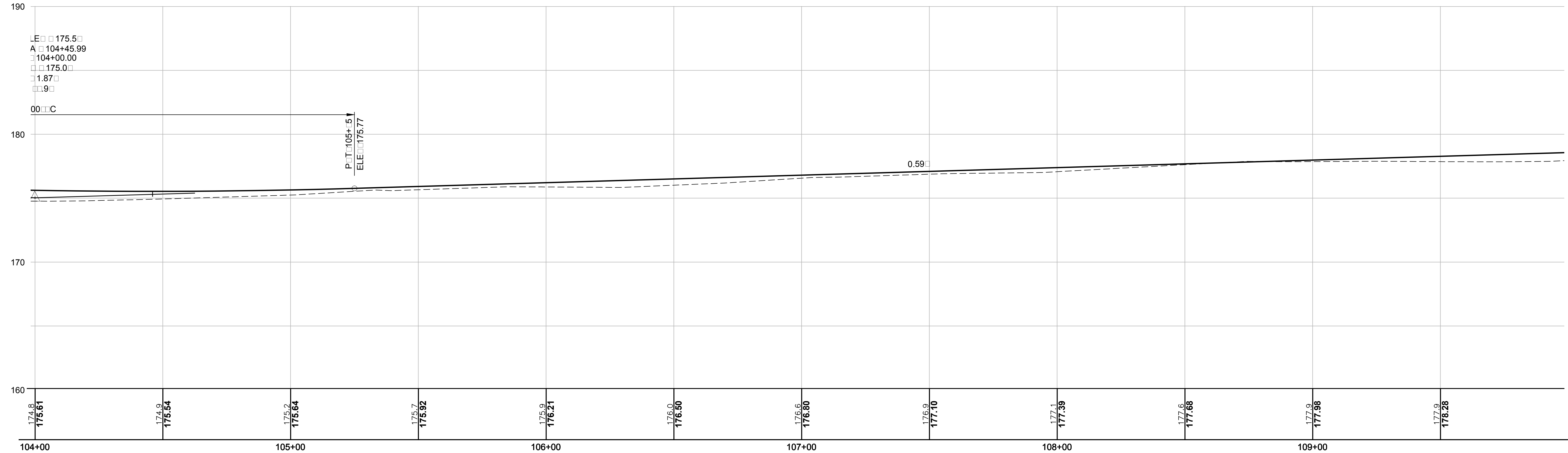
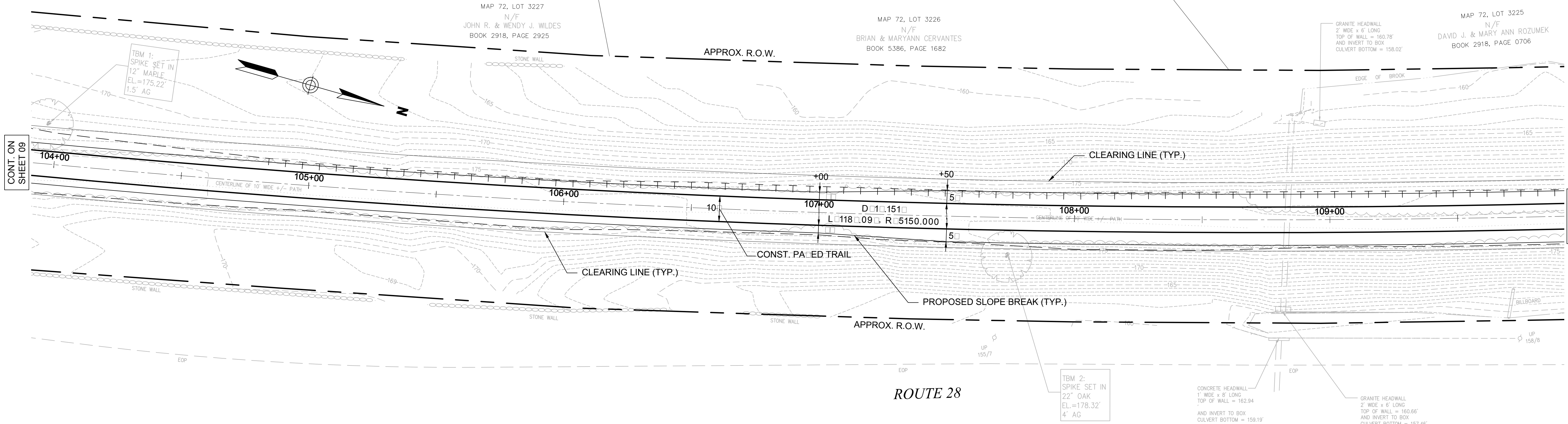
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SDR PROCESSED

NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS



VHB Vanasse Hangen Brustlin, Inc.					
DATE PLOTTED	VHB PROJECT NO.		DRAWING	STATE PROJECT NO.	SHEET NO.
14-Jul-15	52304.00		52304-GEN	-	10

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
GENERAL PLAN & PROFILE					
DATE PLOTTED	VHB PROJECT NO.		DRAWING	STATE PROJECT NO.	SHEET NO.
14-Jul-15	52304.00		52304-GEN	-	10

CONT. ON
SHEET 11

CONT. ON
SHEET 09

REVISIONS AFTER PROPOSAL

STATION

DATE

NUMBER

DATE

SDR PROCESSED

NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS

DESCRIPTION

STATION

DATE

NUMBER

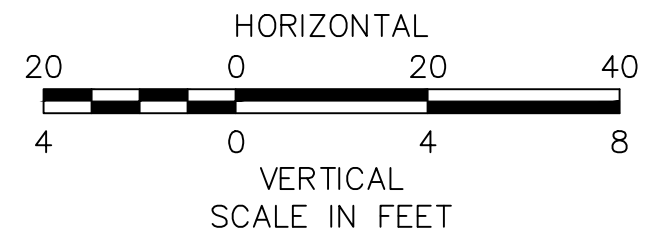
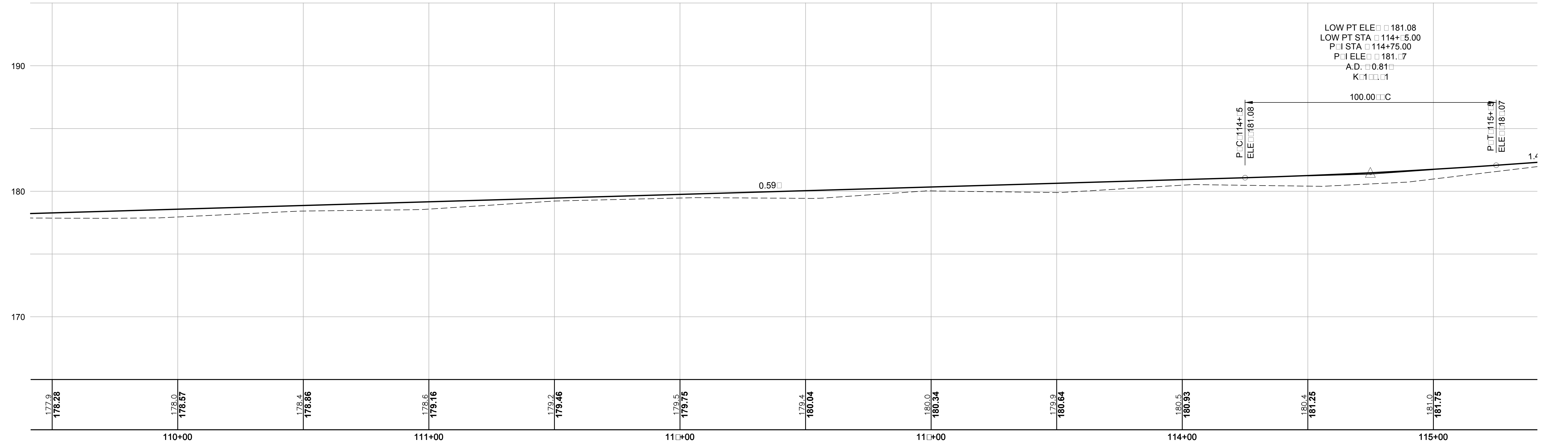
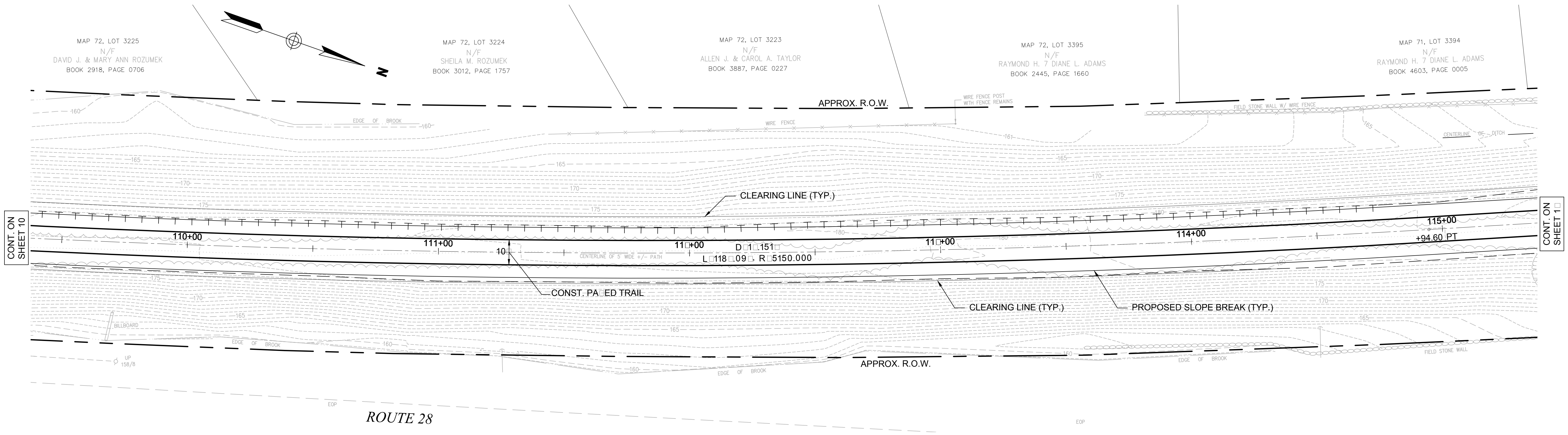
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NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	11	58

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
GENERAL PLAN & PROFILE					
11					

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

DATE

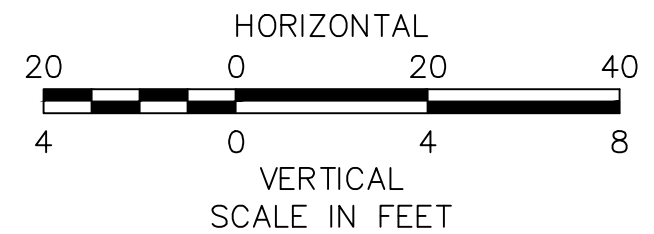
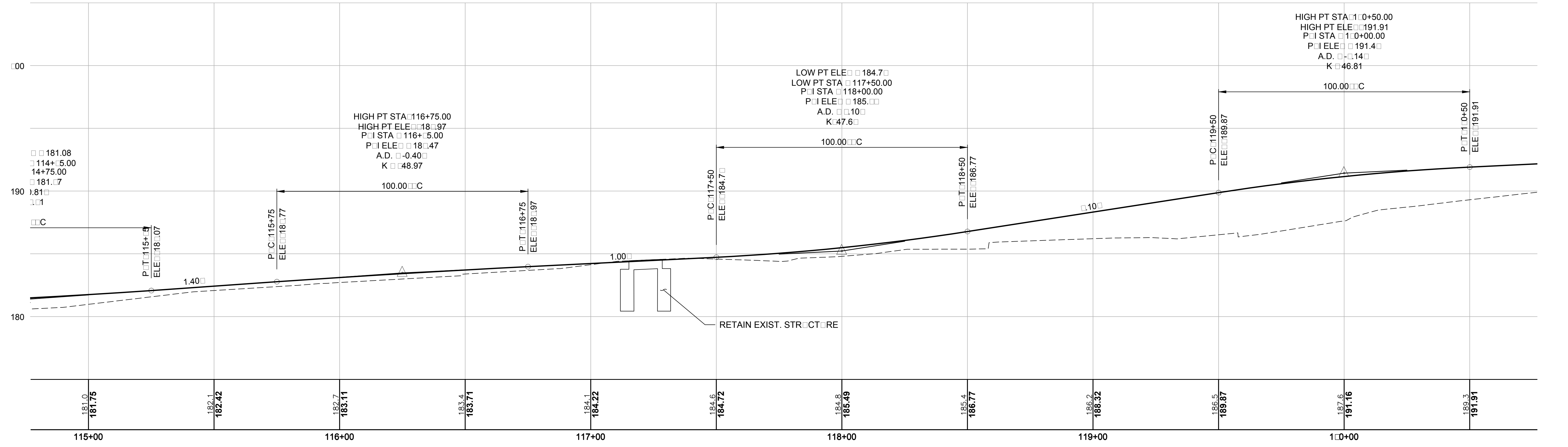
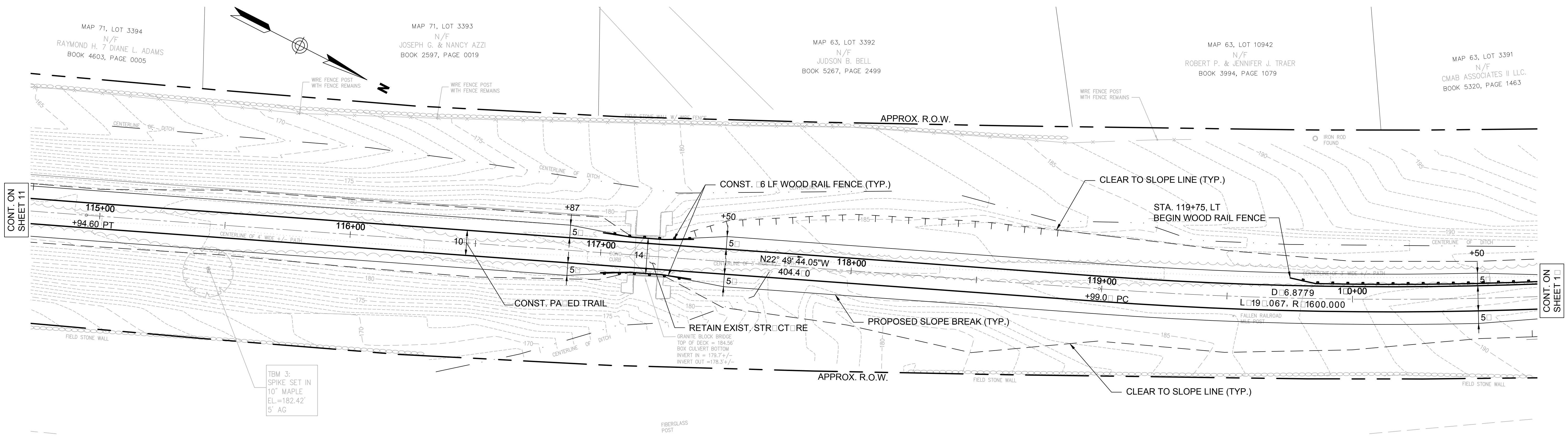
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NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

DATE

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VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	12	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

GENERAL PLAN & PROFILE

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

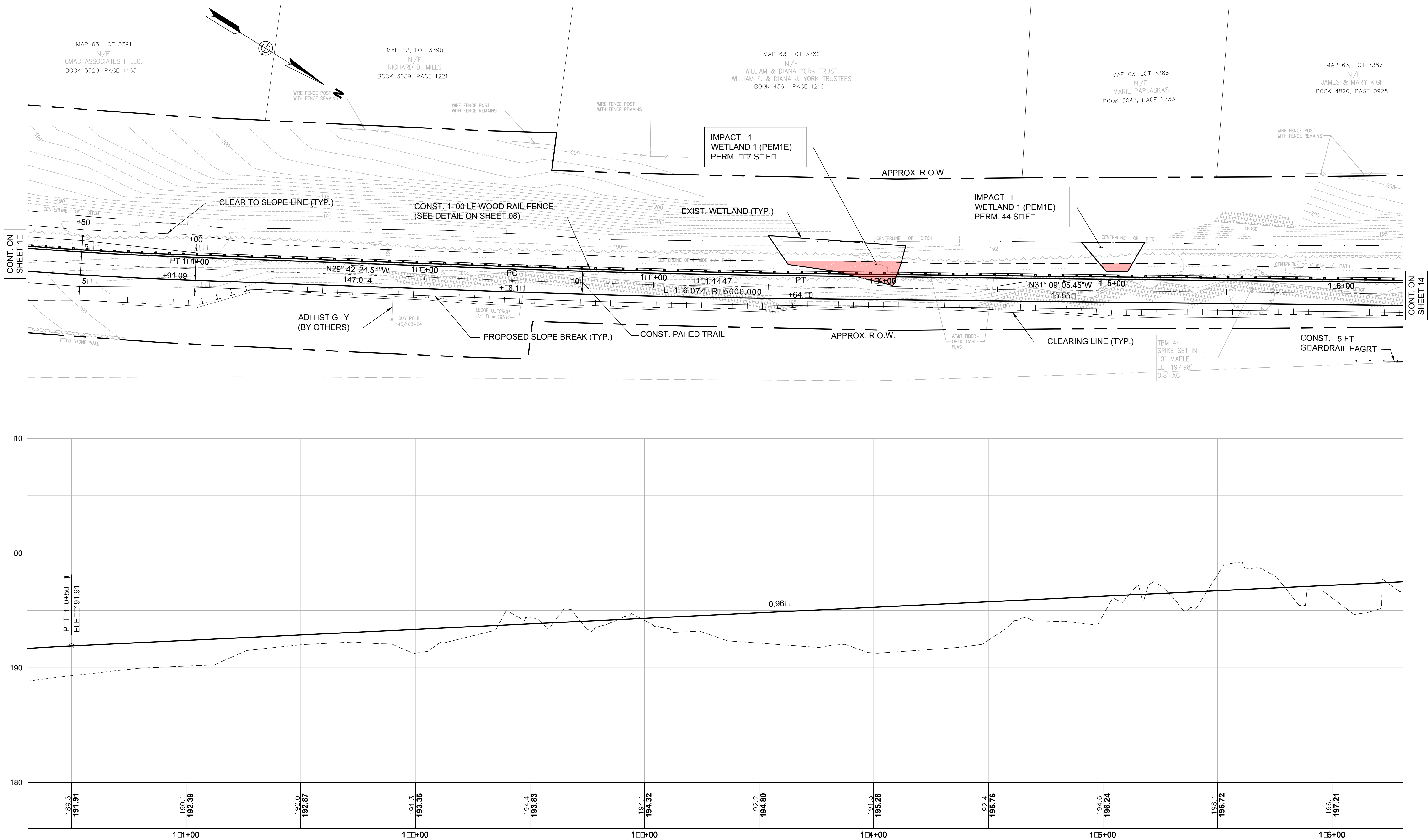
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REVISIONS: AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

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DESCRIPTION

STATION

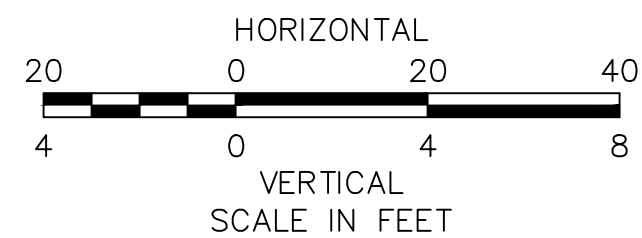
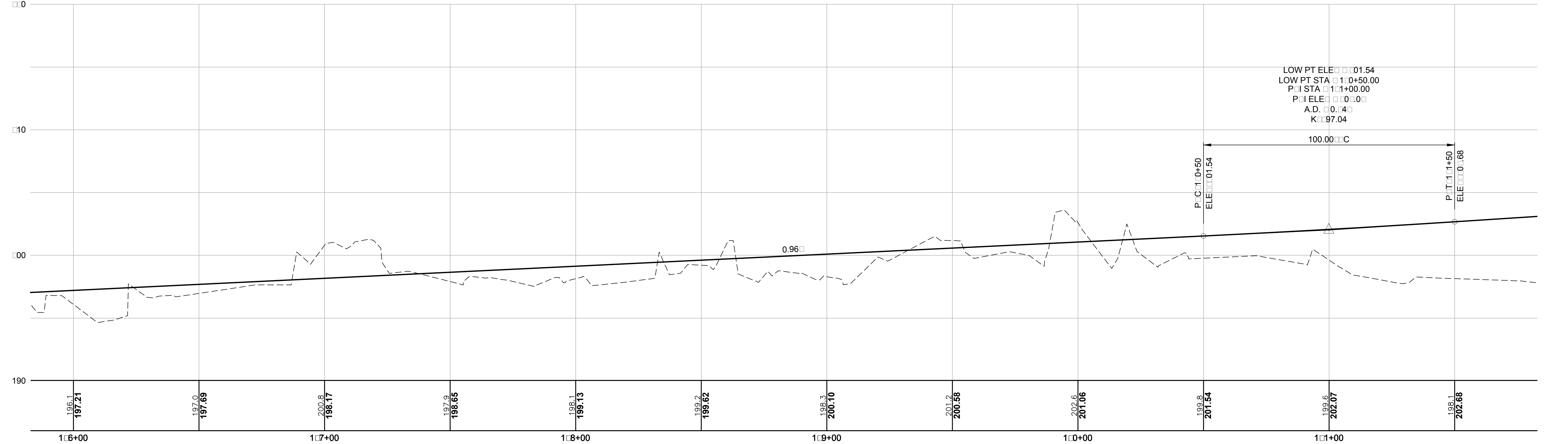
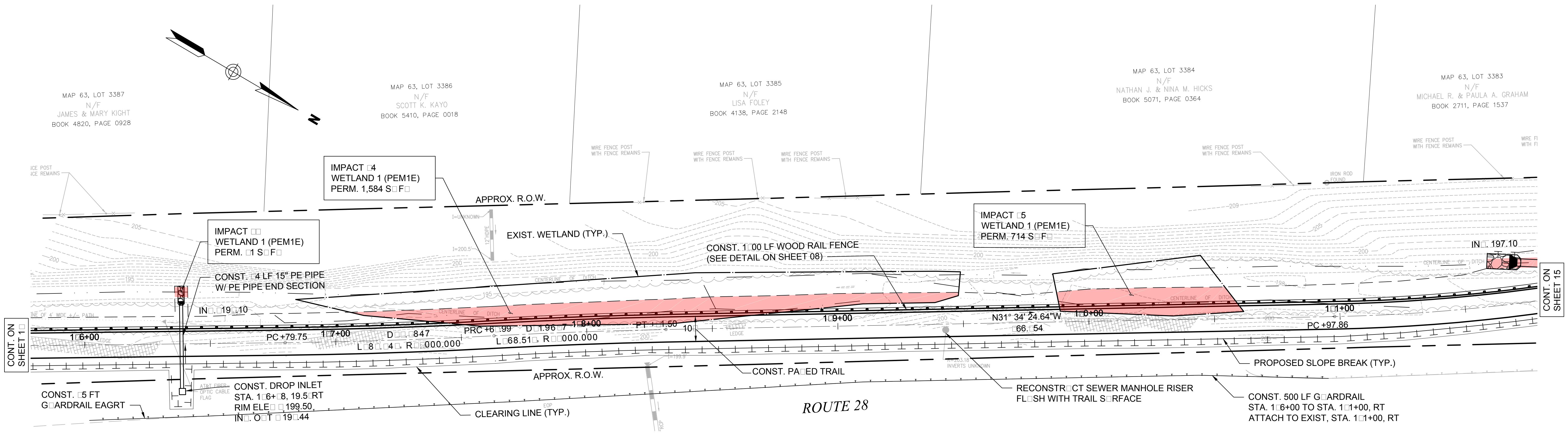
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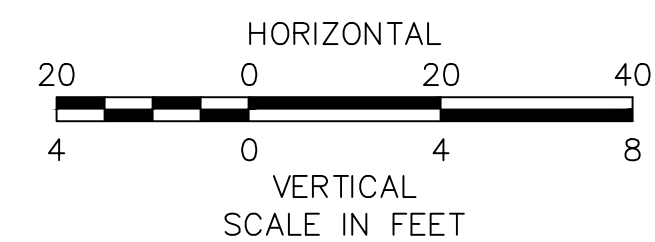


VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	14	58

TOWN OF SALEM, NEW HAMPSHIRE
SALEM-WINDHAM PED/BIKE TRAIL
GENERAL PLAN & PROFILE

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	
	DATE



DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	15	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

GENERAL PLAN & PROFILE

REVISIONS: AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

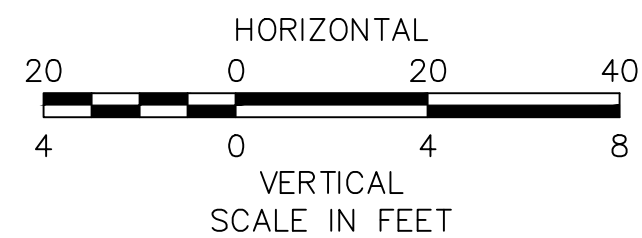
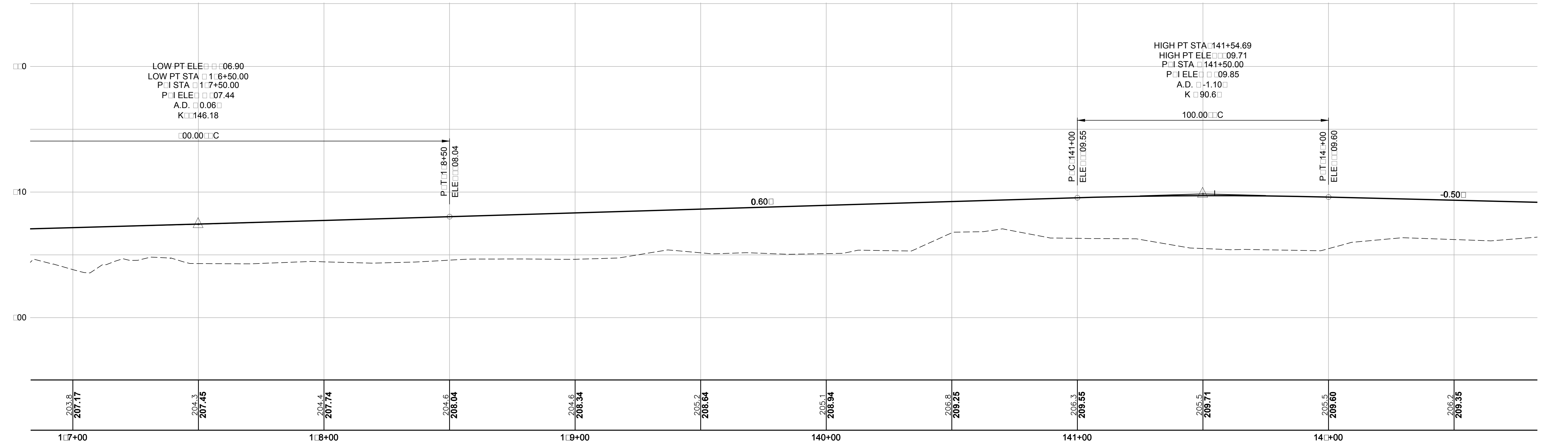
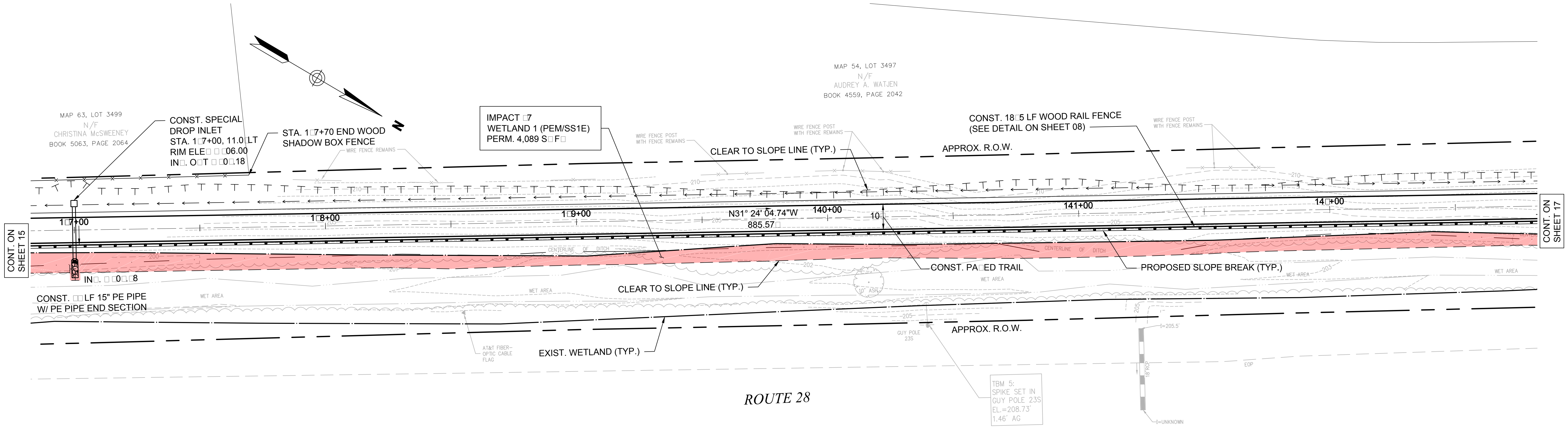
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NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS

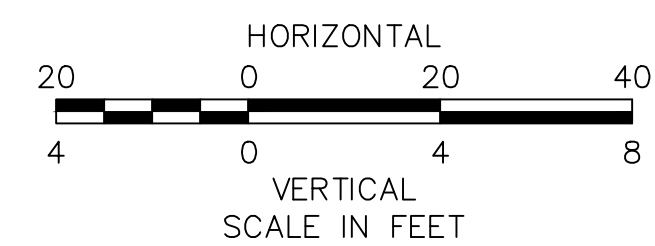
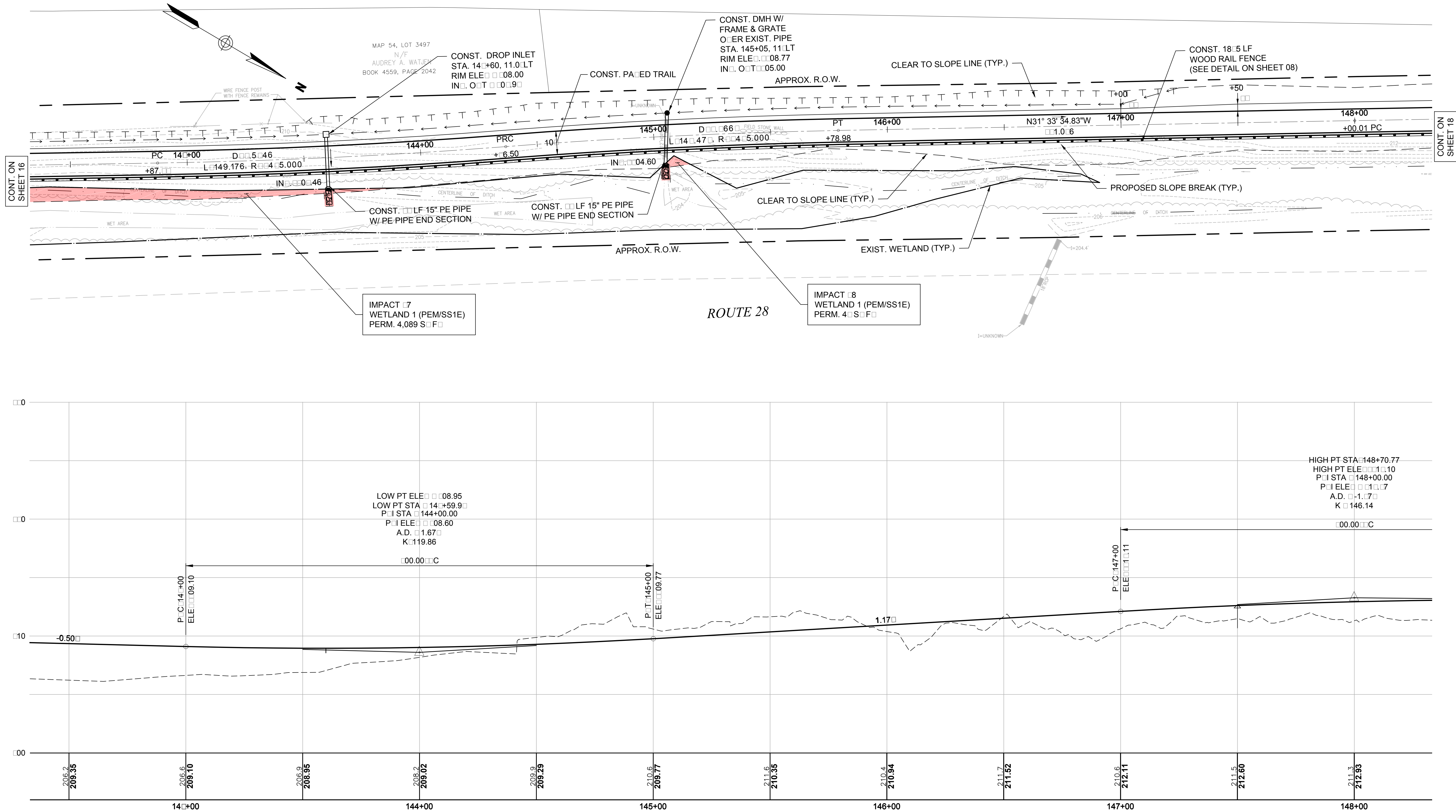


VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	16	58

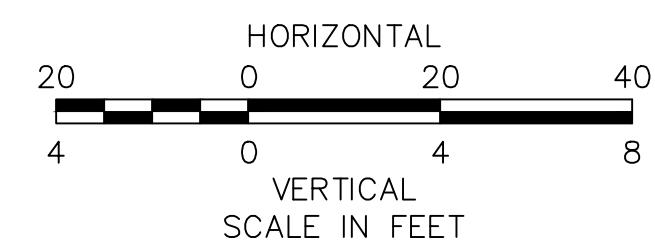
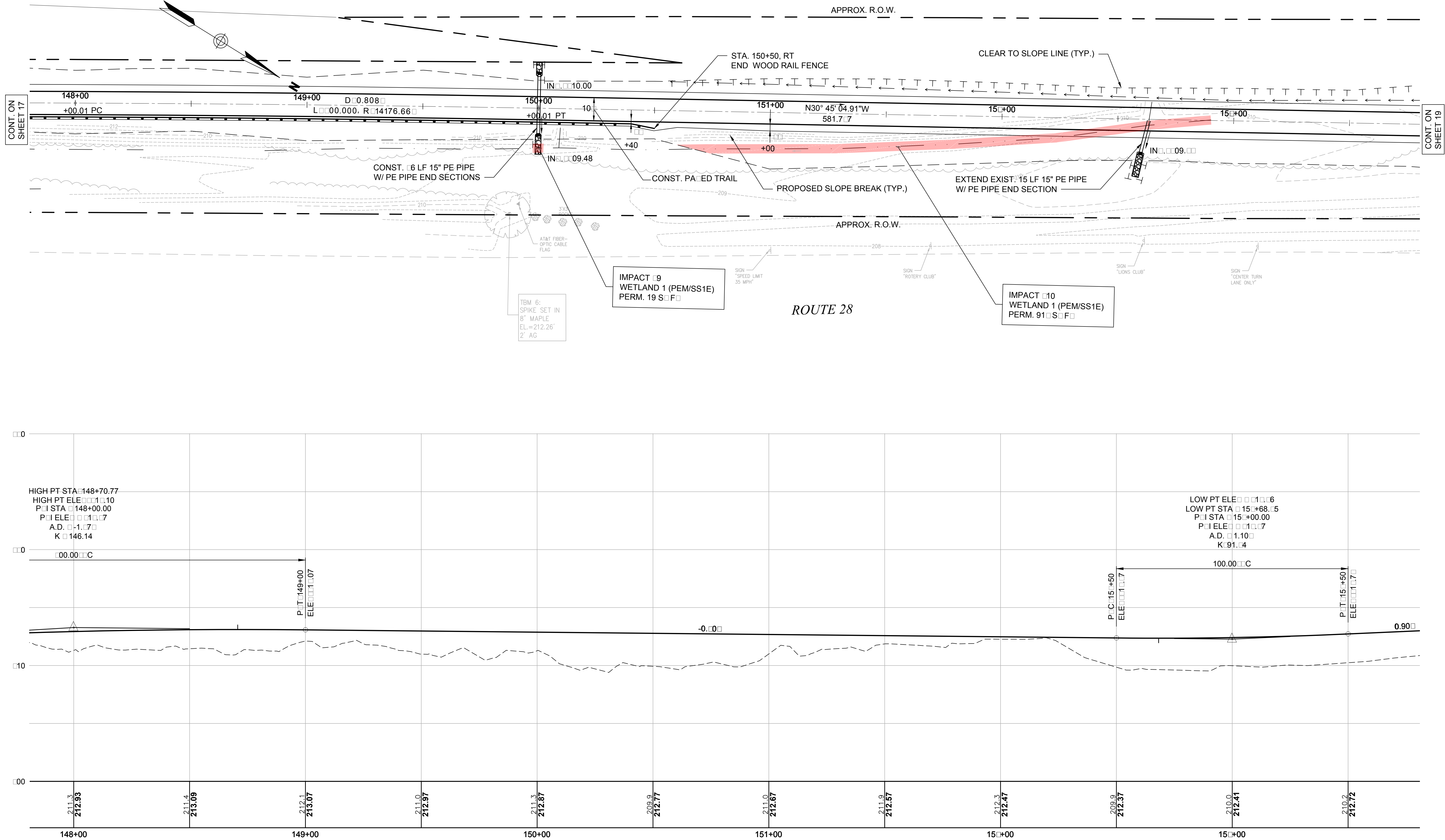
TOWN OF SALEM, NEW HAMPSHIRE
SALEM-WINDHAM PED/BIKE TRAIL
GENERAL PLAN & PROFILE

		REVISIONS AFTER PROPOSAL			
SDR PROCESSED	DATE	NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN	DATE				
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



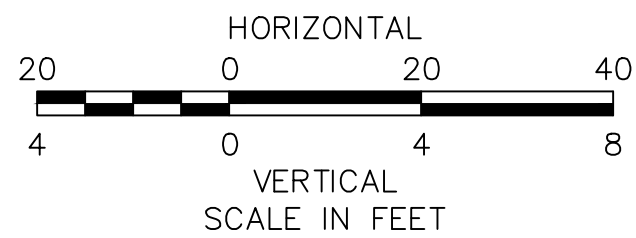
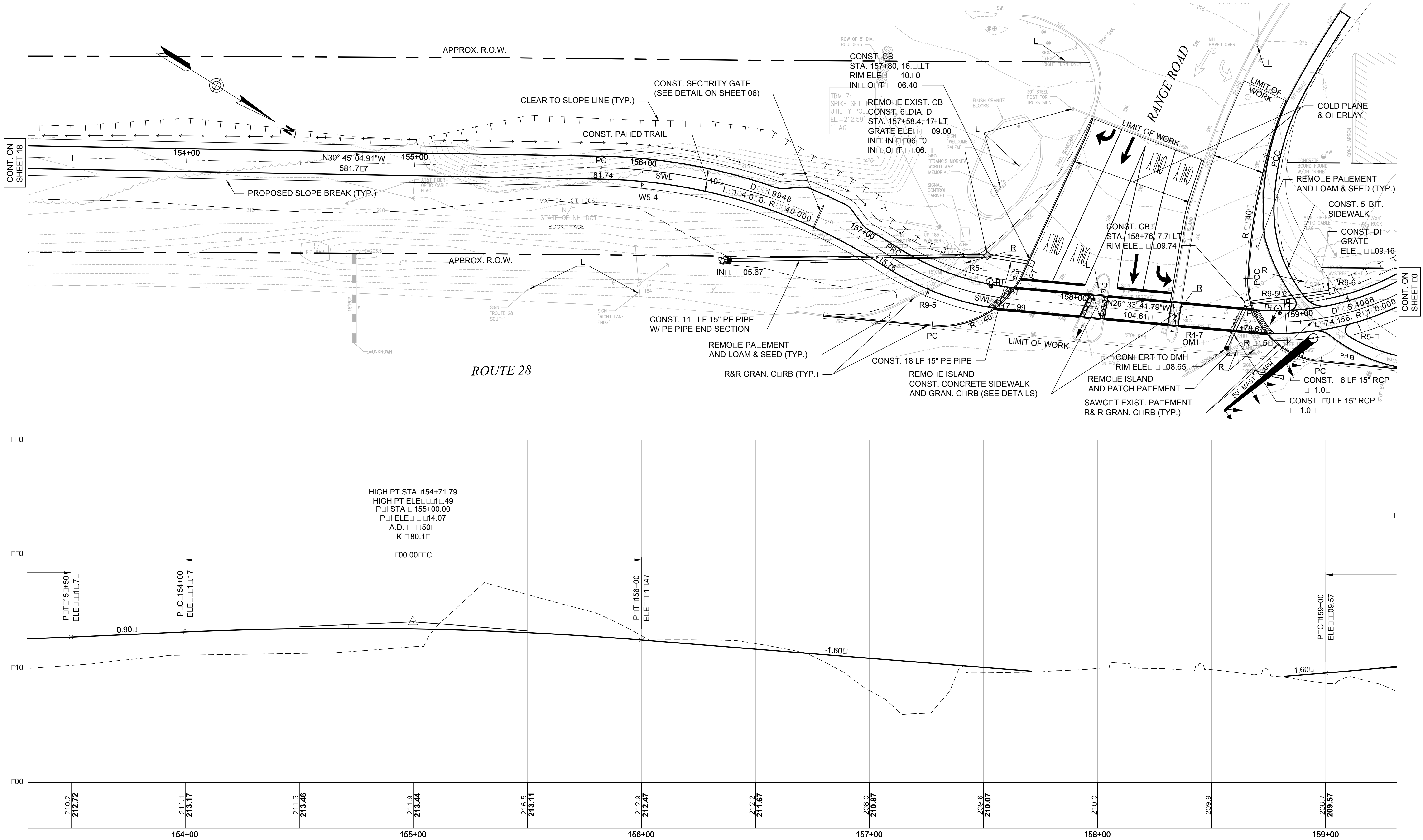
VHB <i>Vanasse Hangen Brustlin, Inc.</i>		GENERAL PLAN & PROFILE			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	17	58

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN	DATE	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



VHB <i>Vanasse Hangen Brustlin, Inc.</i>		GENERAL PLAN & PROFILE			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	18	58

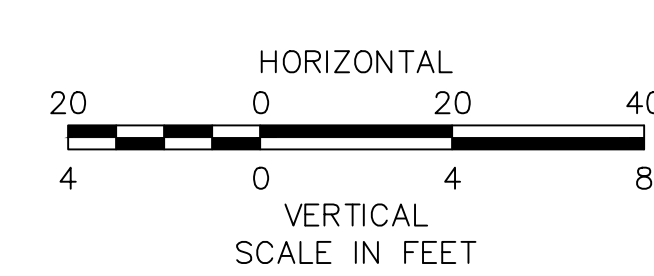
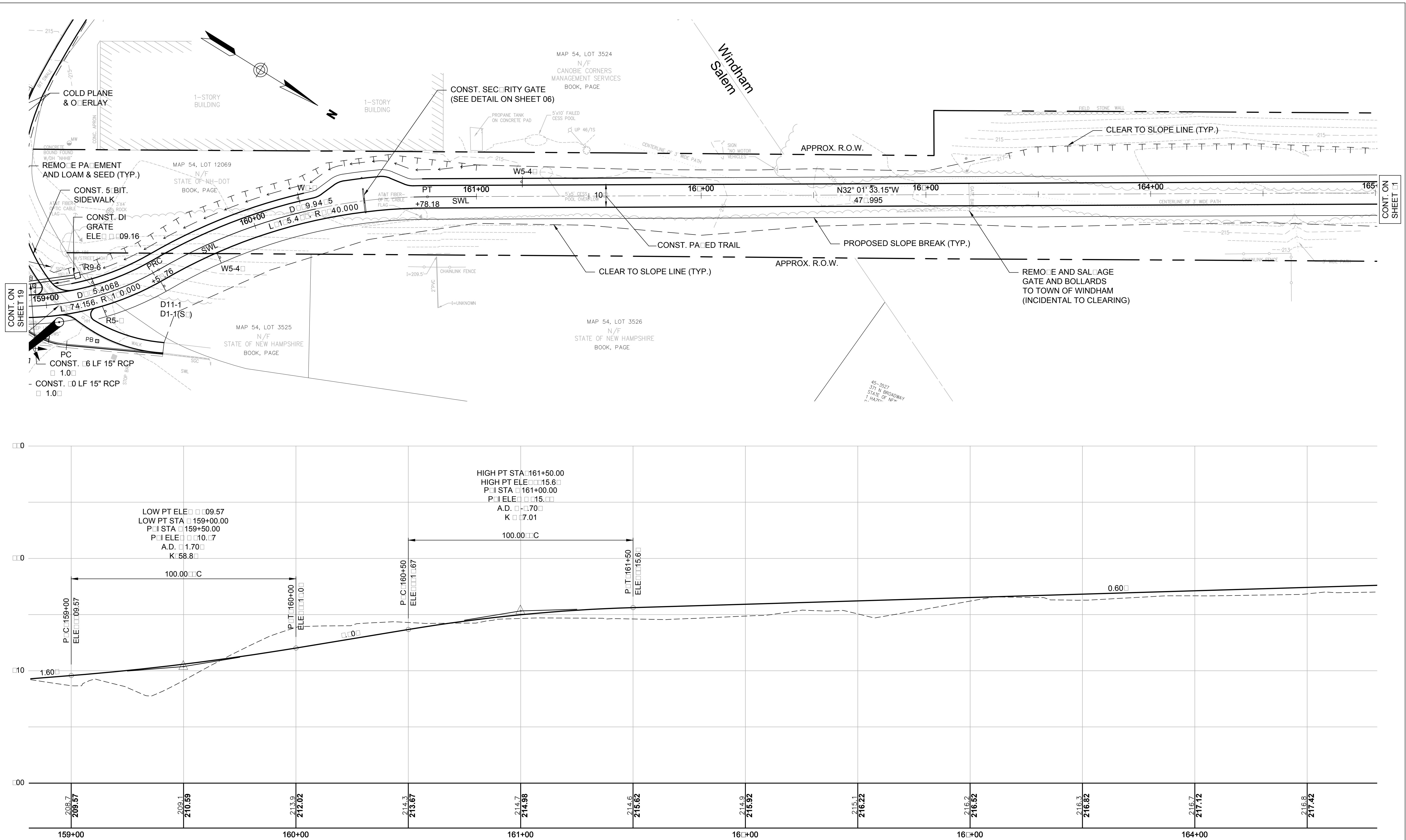
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	NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN	DATE			
	DATE			
	DATE			
SHEET CHECKED	DATE			
	DATE			
AS BUILT DETAILS	DATE			
	DATE			



VHB Vanasse Hangen Brustlin, Inc.					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	19	58

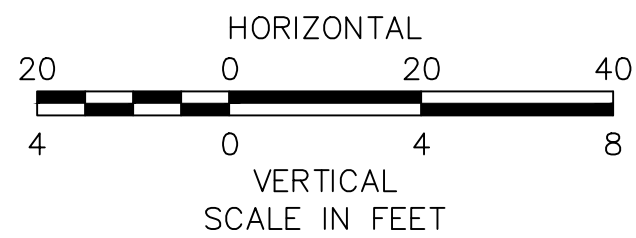
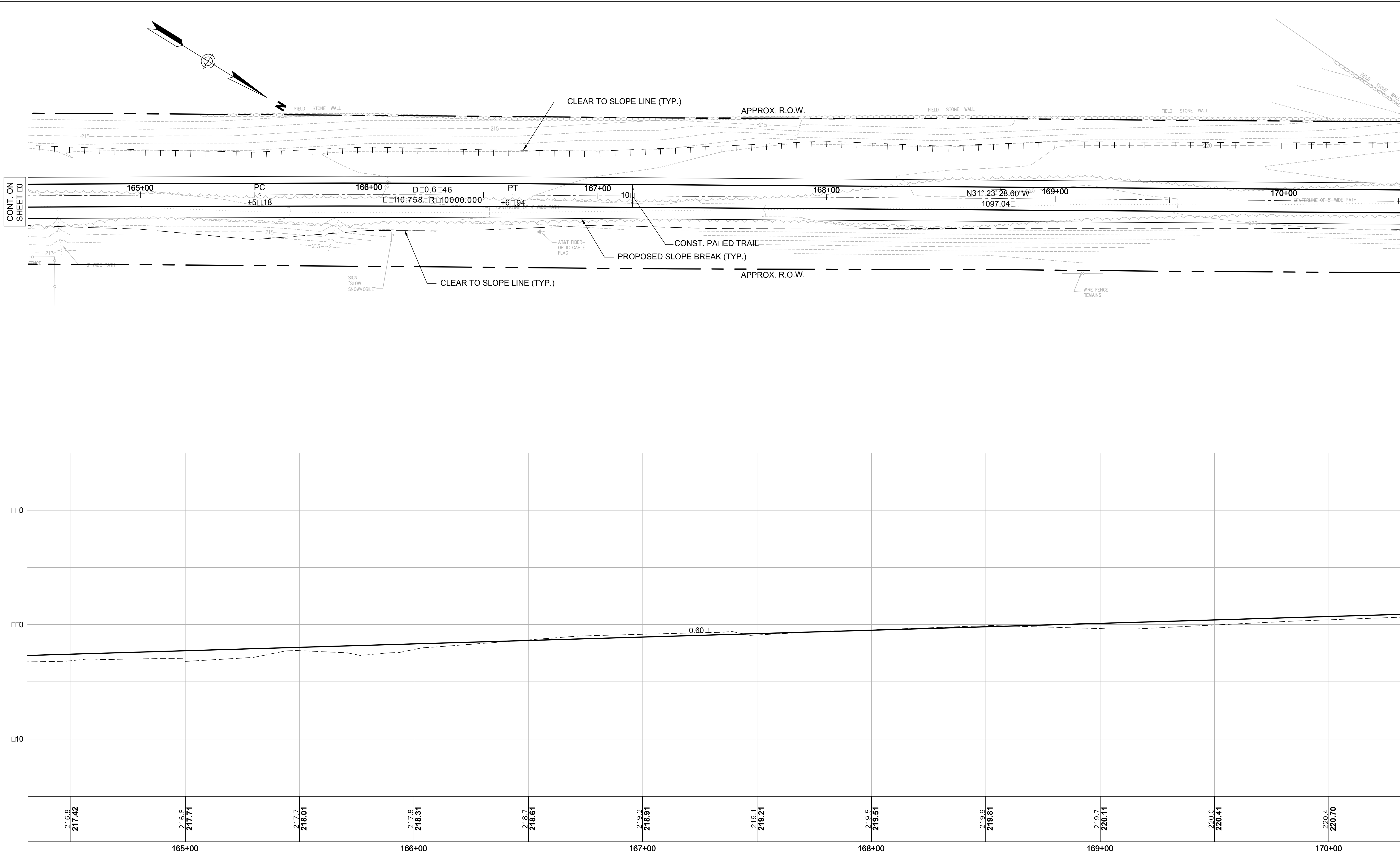
TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
GENERAL PLAN & PROFILE					

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN	DATE	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



 Vanasse Hangen Brustlin, Inc.		TOWN OF SALEM, NEW HAMPSHIRE			
		SALEM-WINDHAM PED/BIKE TRAIL			
		GENERAL PLAN & PROFILE			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	—	20	58

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL				DESCRIPTION
	NEW DESIGN	DATE	NUMBER	DATE	STATION	
	SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE					

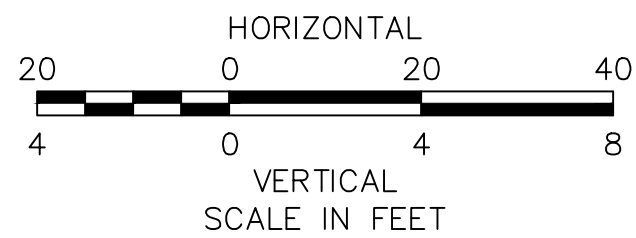
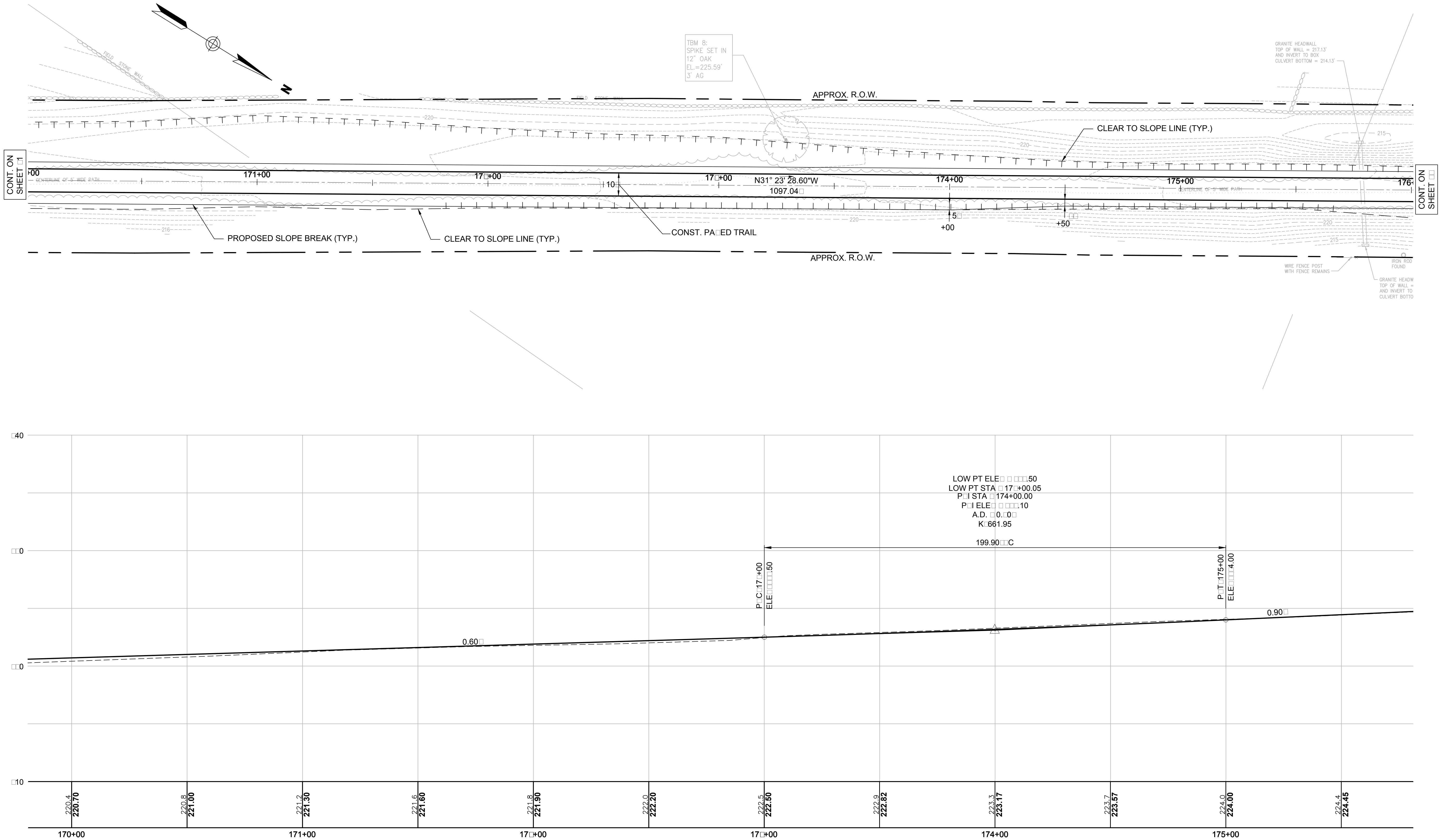


VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	21	58

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
GENERAL PLAN & PROFILE					

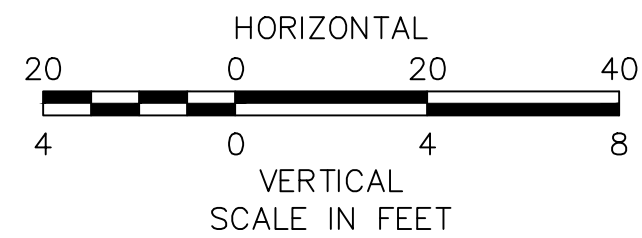
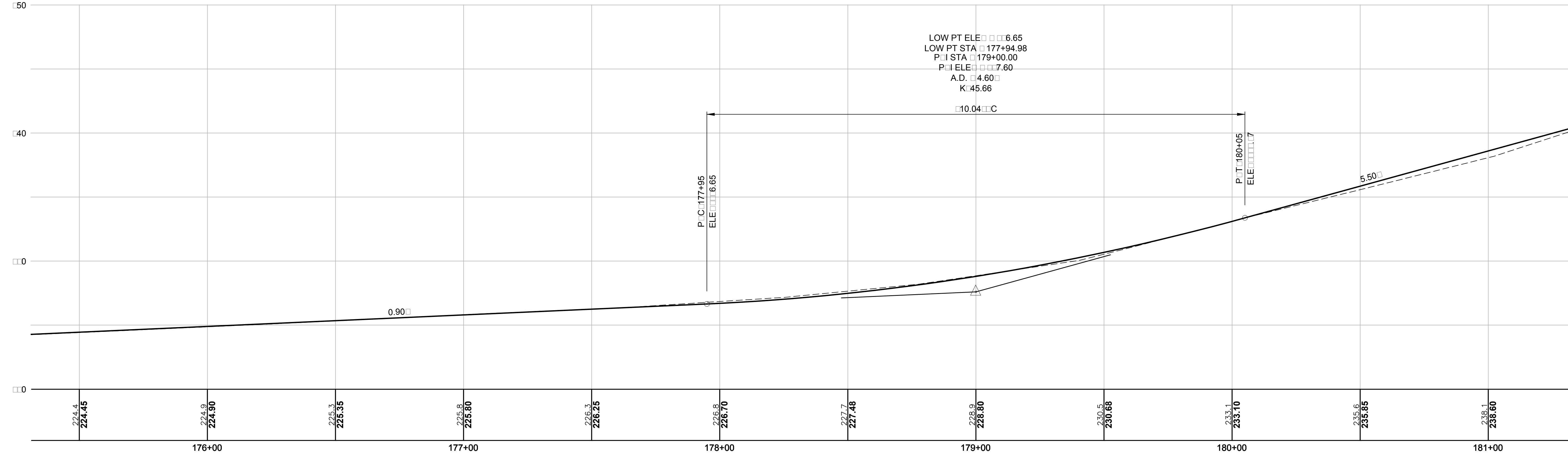
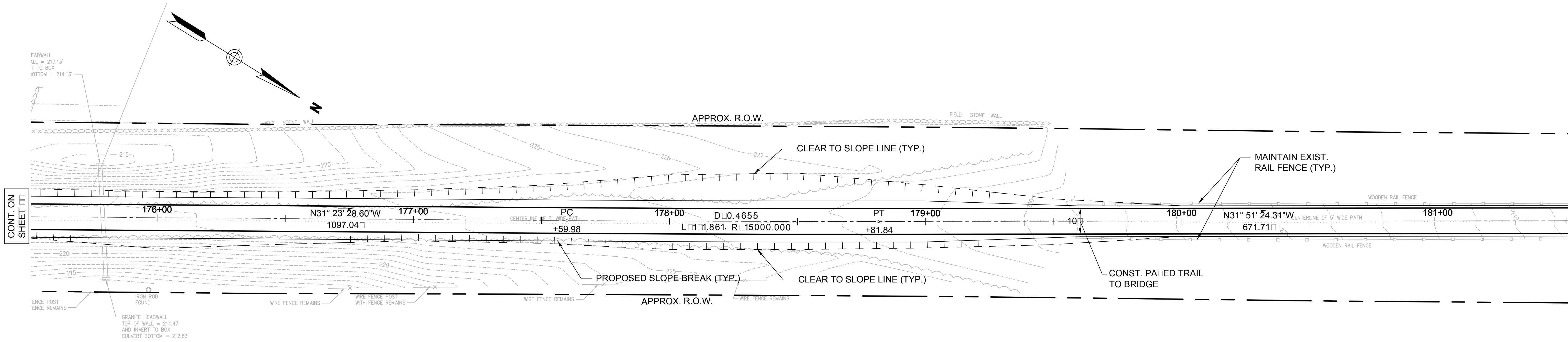
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	NUMBER	DATE	STATION	STATION	DESCRIPTION
NEW DESIGN	DATE				
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AS BUILT DETAILS	DATE				
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VHB Vanasse Hangen Brustlin, Inc.	
DATE PLOTTED	VHB PROJECT NO.
14-Jul-15	52304.00

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
GENERAL PLAN & PROFILE					
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
52304-GEN	-	22	58		

SDR PROCESSED		REVISIONS AFTER PROPOSAL		DATE	
NEW DESIGN		STATION		DATE	
SHEET CHECKED		STATION		DATE	
AS BUILT DETAILS		STATION		DATE	

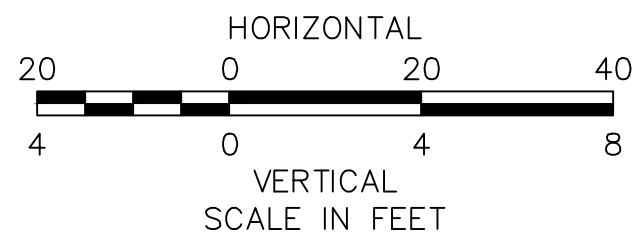
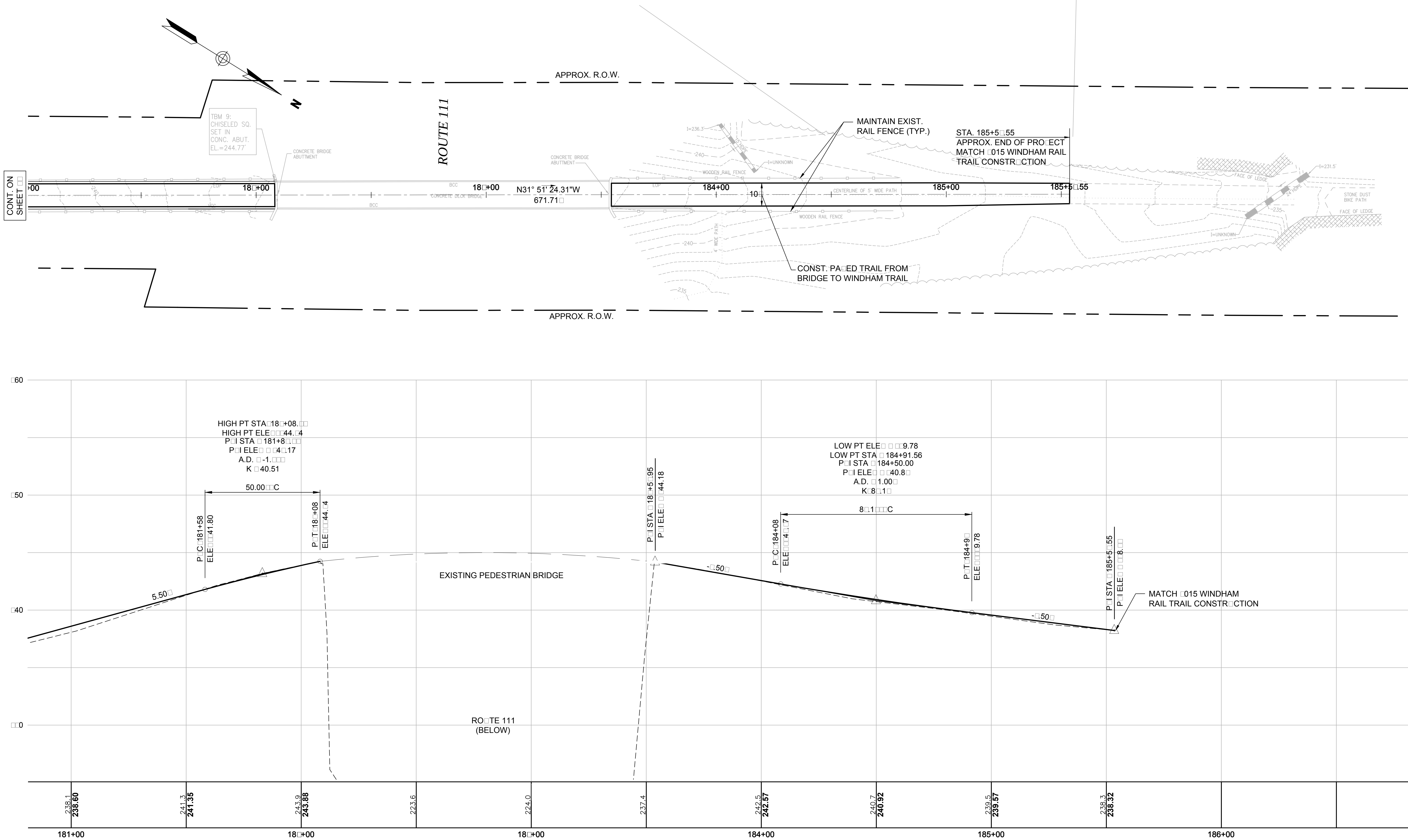


VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-GEN	-	23	58

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
GENERAL PLAN & PROFILE					

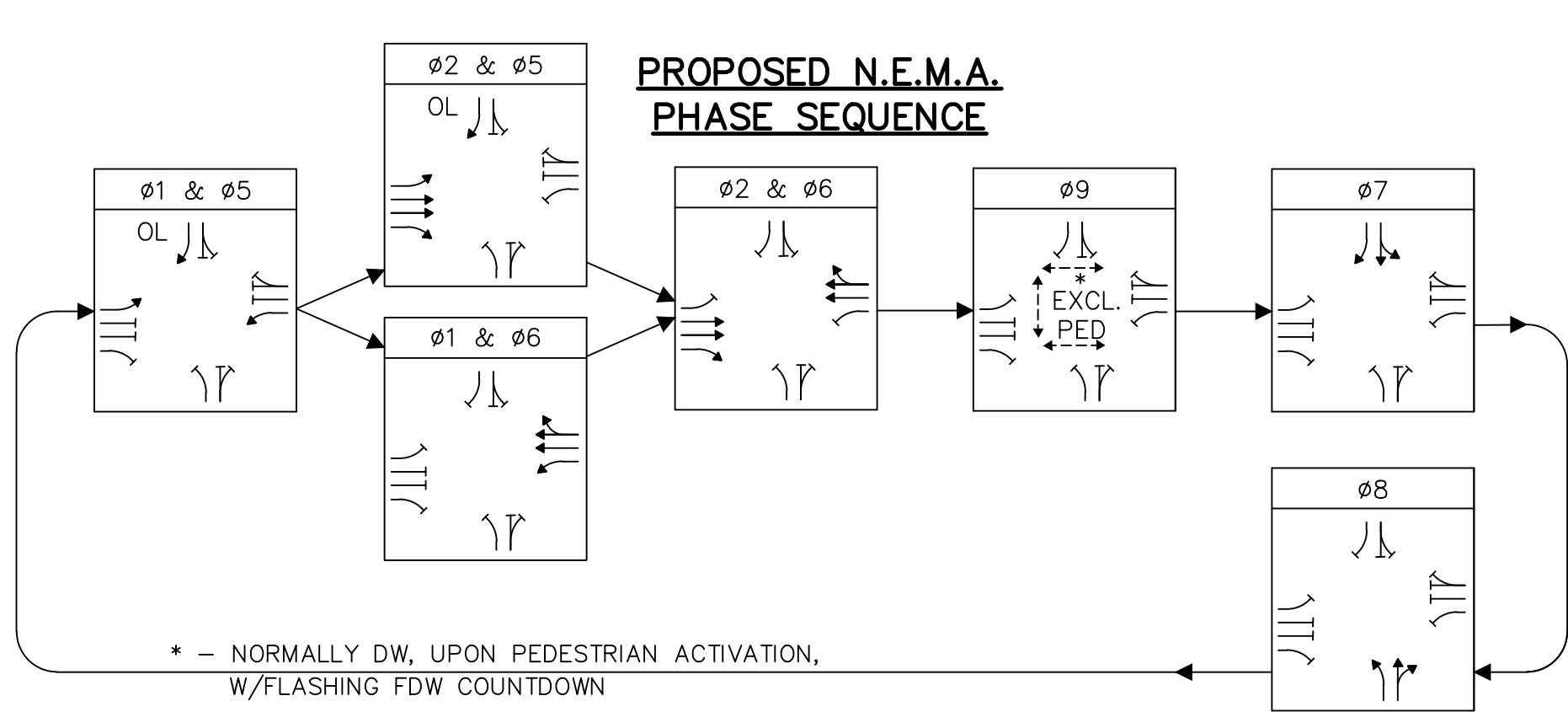
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	STATION		DESCRIPTION		
	NUMBER	DATE	STATION		
	DATE	DATE	DATE		
NEW DESIGN					
SHEET CHECKED					
AS BUILT DETAILS					



VHB Vanasse Hangen Brustlin, Inc.			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.
14-Jul-15	52304.00	52304-GEN	-

TOWN OF SALEM, NEW HAMPSHIRE			
SALEM-WINDHAM PED/BIKE TRAIL			
GENERAL PLAN & PROFILE			
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
52304-GEN	-	24	58

SIGNAL HEAD DATA					
EXISTING					PROPOSED
1,5	2,6,7,8	2A,6A	2B	7A	P1-P6
12" LED LENS	12" LED LENS	12" LED LENS	12" LED LENS	12" LED LENS	16" x 18" LED HOUSING
WITH 5" RETROREFLECTIVE LOUVERED BACKPLATES					



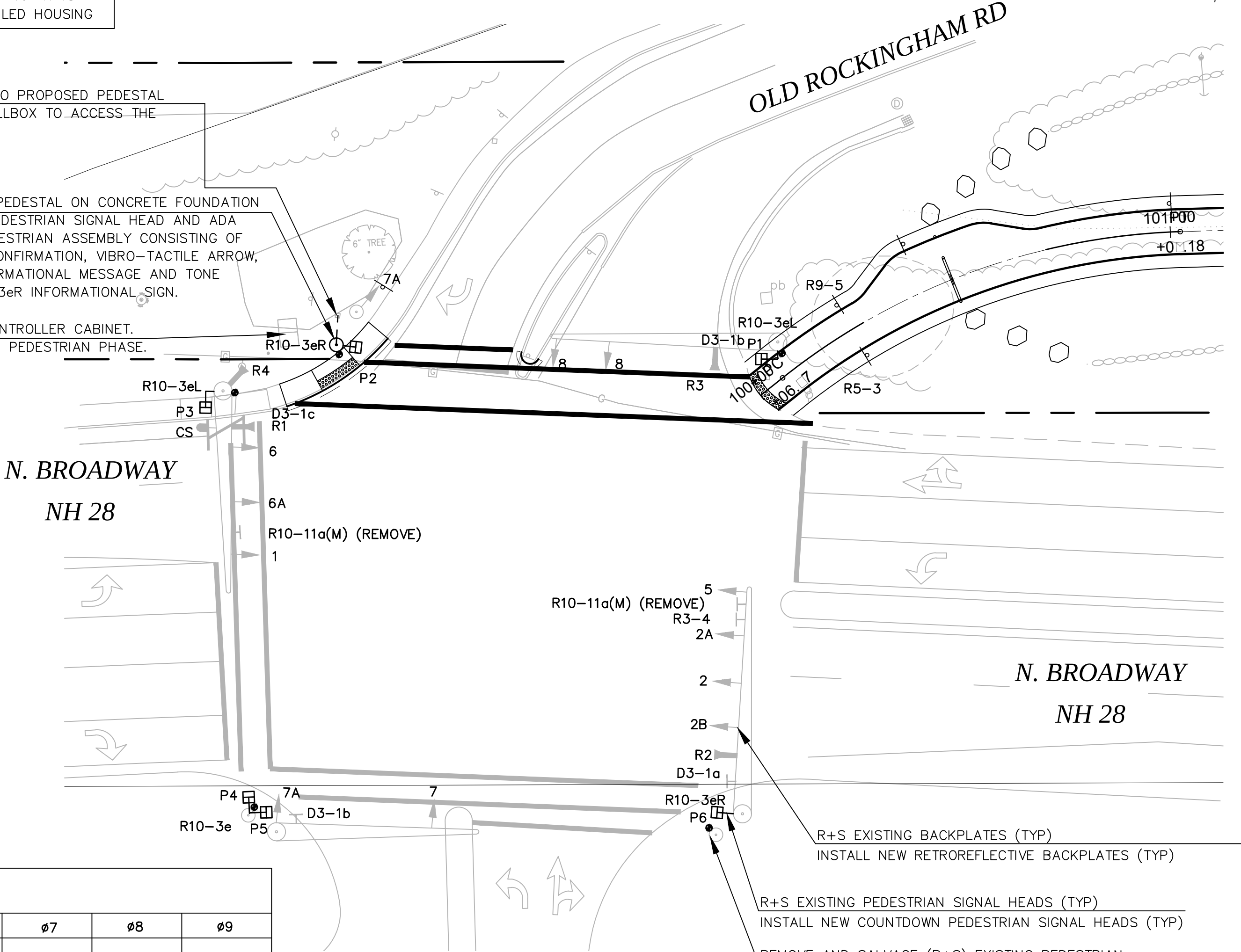
DETECTOR SCHEDULE									
DETECTOR				AMPLIFIER		INDUCT UH	RESISTANCE OF LOOPS	RESIST. LOOP GRD. MEG.	RESIST. SHIELD GRD. MEG.
STREET	DIRECTION	LANE	ø	NO.	CHANNEL				
RECORD FIELD MEASUREMENTS HERE									

2015 SYSTEM DESIGN VOLUMES AM(PM)[SAT]	
70(60)[60] 15(55)[45] 30(95)[55]	20(45)[45] 555(440)[750] 50(65)[90]
[35](50)20 [860](725)290 [205](170)60	[145](95)85 [40](50)10 [115](110)15

CONNECT PROPOSED PVC CONDUIT TO PROPOSED PEDESTAL POLE AND BREAK INTO EXISTING PULLBOX TO ACCESS THE EXISTING CONDUIT SYSTEM.

PROPOSED 8-FOOT PEDESTAL ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD AND ADA COMPLIANT APS PEDESTRIAN ASSEMBLY CONSISTING OF BUTTON WITH LED CONFIRMATION, VIBRO-TACTILE ARROW, SPEAKERS FOR INFORMATIONAL MESSAGE AND TONE LOCATOR WITH R10-3eR INFORMATIONAL SIGN.

RETAIN EXISTING CONTROLLER CABINET. IMPLEMENT MODIFIED PEDESTRIAN PHASE.



EXISTING AND PROPOSED SIGNS

R9-5
12"x18"
1-PROPOSED

R10-3eR
9"x15"
2-PROPOSED

R10-3eL
9"x15"
2-PROPOSED

R10-3e
9"x15"
1-PROPOSED

R5-3
24"x24"
1-PROPOSED

R3-4
1-EXISTING

D3-1b
2-EXISTING

D3-1a
1-EXISTING

D3-1c
1-EXISTING

EXISTING SIGNS TO BE REMOVED

R10-11a(M)
2-EXISTING

SEE GENERAL PLAN & PROFILE FOR ADDITIONAL SIGNS

ITEM 616.191

NEMA DUAL RING CONTROLLER									
PROPOSED SIGNAL PHASING & TIMING									
	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8	ø9
			NOT USED	NOT USED					
INITIAL INTERVAL	5	10	-	-	5	10	5	5	-
VEHICLE EXTENSION	4	5	-	-	4	5	3	4	-
MAXIMUM 1	20	40	-	-	20	40	30	15	-
MAXIMUM 2	20	60	-	-	20	60	30	15	-
YELLOW	4.0	4.0	-	-	4.0	4.0	4.0	4.0	3.0
ALL RED	3.0	3.0	-	-	3.0	3.0	3.0	3.0	0.0
PEDESTRIAN WALK	-	-	-	-	-	-	-	-	4
PEDESTRIAN CLEAR	-	-	-	-	-	-	-	-	25
FLASH	FR	FY	-	-	FR	FY	FR	FR	DARK
RECALL	OFF	SOFT	-	-	OFF	SOFT	OFF	OFF	OFF
DETECTOR	NL	NL	-	-	NL	NL	NL	NL	-
PRE-EMPT PRIORITY	1	2	-	-	2	1	4	3	-

NL=NONLOCK FR=FLASH RED FY=FLASH YELLOW
MAX 2 = UNDER COORDINATION

FIRE PREEMPTION	
PREEMPT 1	CALLS ø1 & ø6
PREEMPT 2	CALLS ø2 & ø5
PREEMPT 3	CALLS ø8
PREEMPT 4	CALLS ø7

FIRE PRE-EMPTION NOTE:

- PRE-EMPTION SIGNALS SHALL BE SERVICED ON A FIRST COME - FIRST SERVED BASIS.
- MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
- FIRE PRE-EMPTION OVERRIDES COORDINATION.



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.
14-Jul-15	52304.00

TOWN OF SALEM, NEW HAMPSHIRE					
ROUTE 8 PED/BIKE TRAIL					
NH 8 (N. BROADWAY) AND OLD ROCKINGHAM RD SIGNALIZATION PLAN IS-99-09					
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
52304-SIG	-	25	58		

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL			
		NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN	DATE				
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				

CONSTRUCTION NOTES:

1. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED HEREIN USING NEW MATERIALS. THE TERM "REMOVE AND SALVAGE"(R+S) MEANS EQUIPMENT TO BE REMOVED AND DELIVERED TO NHDOT BUREAU OF TRAFFIC. THE TERM "REMOVE AND RELOCATE" (R+R) MEANS EQUIPMENT TO BE REMOVED AND RE-USED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. PLACEMENT OF STRUCTURAL FILL MATERIAL SHALL BE SUBSIDIARY TO ITEM 616.191.

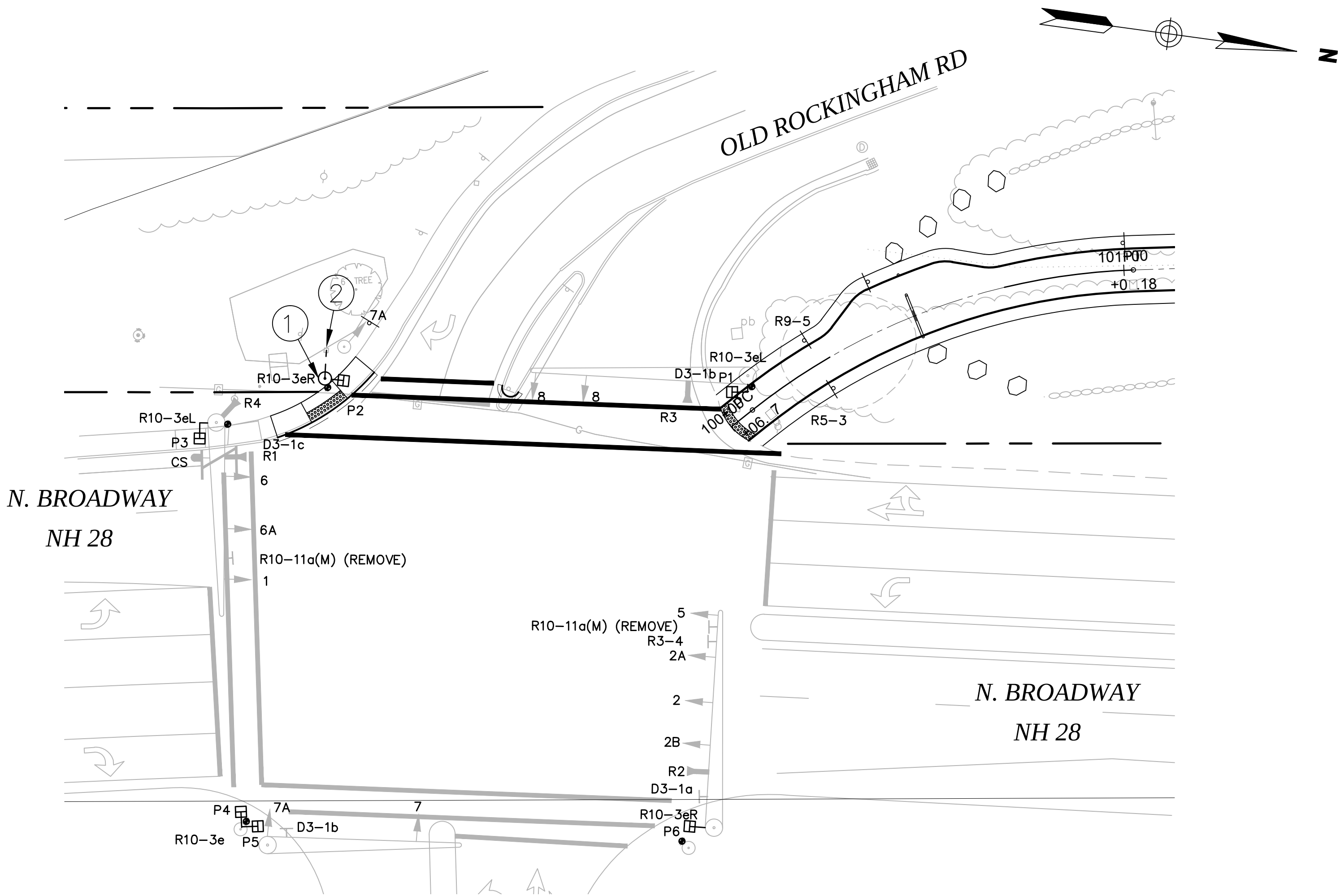
PROPOSED CONDUIT SCHEDULE					
I.D.	NO.	LENGTH	SCHEDULE TYPE		REMARKS
(1)---(2)	1	10'	40		FROM PROP TS TO exist pb
TOTAL:			40	80	40 = 3-INCH PVC SCHEDULE 40
			10'	—	80 = 3-INCH PVC SCHEDULE 80

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	100	110	120	140
OFFSET	41	0	99	60
SPLIT TIME $\phi 1$	13	14	14	16
SPLIT TIME $\phi 2$	24	30	36	44
SPLIT TIME $\phi 3$	13	15	16	21
SPLIT TIME $\phi 4$	17	18	21	26
SPLIT TIME $\phi 5$	13	14	14	16
SPLIT TIME $\phi 6$	24	30	36	44
SPLIT TIME $\phi 7$	17	18	21	26
SPLIT TIME $\phi 8$	13	15	16	21
SPLIT TIME $\phi 9$	33	33	33	33

COORDINATION NOTES:

1. OFFSET REFERENCED TO END OF COORDINATED PHASE 2 GREEN.
2. PLAN 1 = MORNING PEAK PLAN
PLAN 2 = WEEKDAY MIDDAY PLAN
PLAN 3 = WEEKDAY PM AND WEEKEND MIDDAY PLAN
PLAN 4 = FRIDAY MIDDAY PLAN
3. FORCE OFFSET TO FIXED. MAX 2 UNDER COORDINATION.
4. SHORT/LONG WAY TRANSITIONS AT 4% AND 30% AND RETURN-HOLD ACTIVE.
5. COORDINATE ANY FINE TUNING TIMING MODIFICATIONS TO BE CONSISTENT WITH THE STATEWIDE TRAFFIC SIGNAL OPTIMIZATION PROJECT X-A002(048) WHICH IS ONGOING AT THIS INTERSECTION.



EXISTING / PROPOSED FOUNDATION SCHEDULE

I.D.	STATION	FOUNDATION TYPE	REMARKS
①	—	TSFND	PROPOSED PEDESTAL POLE
②	—	pb	existing pull box

WHERE:

TYPE # = TRAFFIC SIGNAL MAST ARM FOUNDATION CONSTRUCTED IN ACCORDANCE WITH NHDOT TRAFFIC SIGNAL STANDARD TS-1, TS-2, OR TS-3 AS APPLICABLE. TBD MEANS TO BE DETERMINED BY CONTRACTOR OR HIS ENGINEER BASED ON BORINGS TO BE COMPLETED BY THE CONTRACTOR.

PB = 14-INCH CONCRETE PULL BOX CONSTRUCTED IN ACCORDANCE
WITH NHDOT SIGNAL AND LIGHTING STANDARD SL-1

CCFND = CONCRETE FOUNDATION FOR CONTROLLER CABINETS CONSTRUCTED
IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING
STANDARDS SL-2

TSFND = CONCRETE FOUNDATION FOR PEDESTALS (SIGNAL AND METER)
CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND
LIGHTING STANDARDS SL-2



VHB <i>Vanasse Hangen Brustlin, Inc.</i>		OLD ROCKINGHAM RD SIGNALIZATION PLAN 1S-99-09			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-SIG	-	26	58

TIME BASED SCHEDULE

WEEK	DAY OF WEEK						
PROG	SUN	MON	TUE	WED	THU	FRI	SAT
JAN-DEC	4	1	1	1	1	2	3

EVENT	TIME			ACTION
	HR	MIN	SEC	
DAY PLAN 1				
1	00	00	00	54
2	06	45	00	1
3	11	00	00	2
4	15	00	00	3
5	18	00	00	54
6	19	00	00	54
7	21	00	00	54

DAY PLAN 2				
1	00	00	00	54
2	06	45	00	1
3	10	00	00	2
4	11	45	00	4
5	13	30	00	3
6	15	30	00	3
7	18	00	00	54
8	19	15	00	54
9	21	00	00	54

DAY PLAN 3				
1	00	00	00	54
2	09	00	00	1
3	10	00	00	3
4	11	15	00	3
5	17	15	00	3
6	18	15	00	54
7	20	30	00	54

DAY PLAN 4				
1	00	00	00	54
2	09	30	00	1
3	10	00	00	3
4	11	45	00	3
5	15	00	00	3
6	17	00	00	54
7	18	45	00	54

NOTE:

TIME OF DAY SCHEDULE SHALL BE
CONSISTENT WITH THE STATEWIDE TRAFFIC
SIGNAL OPTIMIZATION PROJECT
X-A002(048).

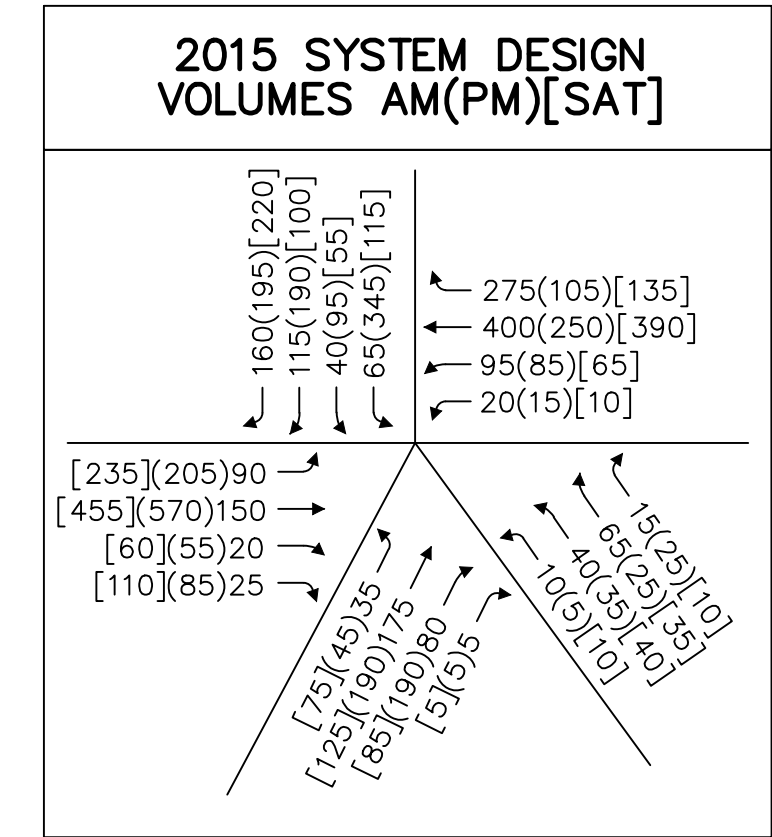
ITEM 616.191

TOWN OF SALEM, NEW HAMPSHIRE

ROUTE 8 PED/BIKE TRAIL

NH 8 (N. BROADWAY) AND
OLD ROCKINGHAM RD
SIGNALIZATION PLAN (S-99-0

SIGNAL HEAD DATA					
EXISTING			PROPOSED		
2,4,6,8,9	1,3,5,7	P1-P2	6,8,9	1,3	9A
12" LED LENS WITH 5" RETROREFLECTIVE LOUVERED BACKPLATES	12" LED LENS	16" X 18" LED HOUSING	12" LED LENS WITH 5" RETROREFLECTIVE LOUVERED BACKPLATES	12" LED LENS	12" LED LENS



PROPOSED 8-FOOT PEDESTAL ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD AND ADA COMPLIANT APS PEDESTRIAN ASSEMBLY CONSISTING OF BUTTON WITH LED CONFIRMATION, VIBRO-TACTILE ARROW, SPEAKERS FOR INFORMATIONAL MESSAGE AND TONE LOCATOR WITH R10-3eR INFORMATIONAL SIGN

FIRE PREEMPTION	
PREEMPT 1	CALLS Ø1 & Ø6
PREEMPT 2	CALLS Ø2 & Ø5
PREEMPT 3	CALLS Ø3 & Ø8
PREEMPT 4	CALLS Ø4 & Ø7
PREEMPT 5	CALLS Ø9

FIRE PRE-EMPTION NOTE:

- PRE-EMPTION SIGNALS SHALL BE SERVICED ON A FIRST COME - FIRST SERVED BASIS.
- MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.

REPAIR OR REPLACE EXISTING Ø2 WIRE LOOP DETECTORS TO ENSURE FULLY ACTIVATED OPERATIONS

R+S EXISTING STREET NAME SIGN
INSTALL PROPOSED STREET NAME SIGN

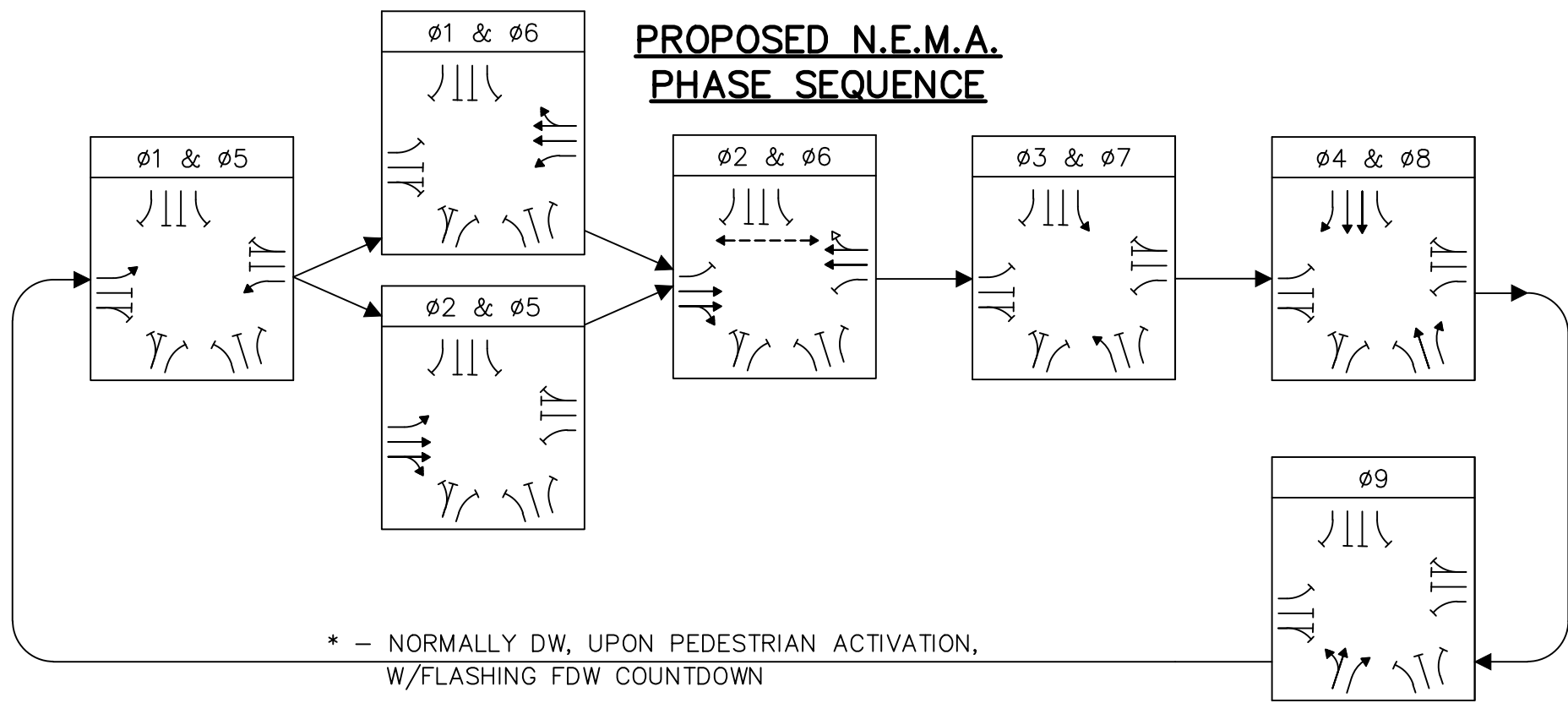
NEMA DUAL RING CONTROLLER

PROPOSED SIGNAL PHASING & TIMING									
	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9
INITIAL INTERVAL	5	10	5	5	5	10	5	5	5
VEHICLE EXTENSION	4	4	4	4	4	4	4	4	4
MAXIMUM 1	20	35	15	25	25	30	25	15	25
MAXIMUM 2	20	40	20	30	35	35	30	20	25
MAXIMUM 3	15	45	25	35	35	40	35	25	30
YELLOW	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
ALL RED	3.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
PEDESTRIAN WALK	-	-	-	-	-	4	-	-	-
PEDESTRIAN CLEAR	-	-	-	-	-	28	-	-	-
FLASH	FR	FY	FR	FR	FR	FY	FR	FR	FR
RECALL	OFF	SOFT	OFF	OFF	OFF	SOFT	OFF	OFF	OFF
DETECTOR	NL	NL	NL	NL	NL	NL	NL	NL	NL
PRE-EMPT PRIORITY	1	2	3	4	2	1	4	3	5

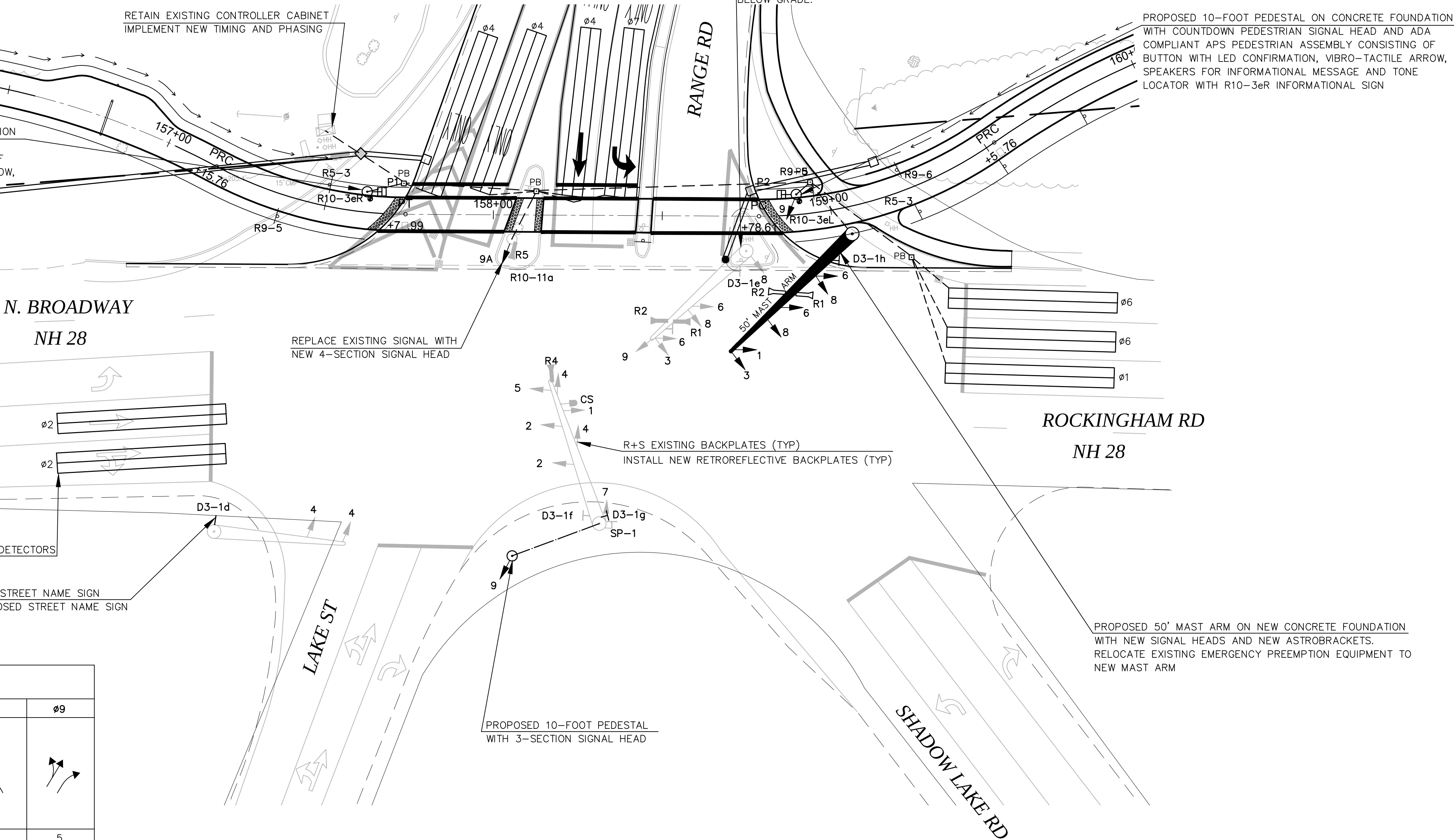
NL=NONLOCK FR=FLASH RED FY=FLASH YELLOW

COORDINATE ANY FINE TUNING TIMING MODIFICATIONS TO BE CONSISTENT WITH THE STATEWIDE TRAFFIC SIGNAL OPTIMIZATION PROJECT X-A002(048) WHICH IS ONGOING AT THIS INTERSECTION BY OTHERS.

PROPOSED N.E.M.A. PHASE SEQUENCE



DETECTOR SCHEDULE						
DETECTOR				AMPLIFIER		
STREET	DIRECTION	LANE	Ø	NO.	CHANNEL	
NH 28	SOUTHBOUND	LEFT	1			
NH 28	SOUTHBOUND	THRU	6			
NH 28	SOUTHBOUND	THRU-RIGHT	6			
NH 28	NORTHBOUND	THRU	2			
NH 28	NORTHBOUND	THRU-RIGHT	2			
RANGE ROAD	EASTBOUND	RIGHT	4			
RANGE ROAD	EASTBOUND	THRU	4			
RANGE ROAD	EASTBOUND	THRU	4			
RANGE ROAD	EASTBOUND	LEFT	7			
RETAIN ALL OTHER EXISTING DETECTION						
RECORD FIELD MEASUREMENTS HERE						



MAST ARM FOUNDATIONS

LOCATION	TYPE



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.
14-Jul-15	52304.00

ITEM 616.192

TOWN OF SALEM, NEW HAMPSHIRE					
ROUTE 8 PEDI/BIKE TRAIL					
NH 28 (ROCKINGHAM RD / N. BROADWAY) & RANGE RD / LAKE ST / SHADOW LAKE RD SIGNALIZATION PLAN S-99-0					
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
52304-SIG	-	27	58		

REVISIONS AFTER PROPOSAL		DESCRIPTION	
		STATION	
SDR PROCESSED		STATION	
NEW DESIGN		STATION	
SHEET CHECKED		DATE	
AS BUILT DETAILS		DATE	

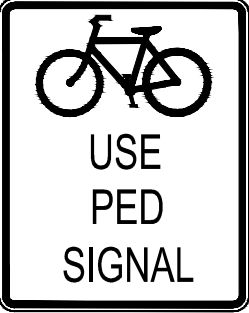
CONSTRUCTION NOTES:

1. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED HEREIN USING NEW MATERIALS. THE TERM "REMOVE AND SALVAGE"(R+S) MEANS EQUIPMENT TO BE REMOVED AND DELIVERED TO NHDOT BUREAU OF TRAFFIC. THE TERM "REMOVE AND RELOCATE" (R+R) MEANS EQUIPMENT TO BE REMOVED AND RE-USED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SAWCUTTING FOR CONDUITS AND JACKING PITS (WHEN REQUIRED) SHALL BE SUBSIDIARY TO ITEM 616.192. REPLACEMENT OF PAVEMENT FOR CONDUIT TRENCHES AND JACKING PITS WILL BE PAID UNDER ITEM 403.12 OR 403.99
3. MAST ARMS SHALL BE DESIGNED TO INCLUDE A 30"x36" SIGN MOUNTED 2--FEET TO THE RIGHT OF EACH SIGNAL HEAD.
4. ALL MAST ARM FOUNDATIONS SHALL INCLUDE A 12 INCH LAYER OF STRUCTURAL FILL BELOW THE BOTTOM OF THE FOOTING GRADE
5. ANY BEARING SURFACE MATERIAL DISTURBED BY EXCAVATION AND/OR BY DEWATERING METHODS SHALL BE REMOVED TO A DEPTH OF 12 INCHES AND REPLACED WITH STRUCTURAL FILL.
6. PLACEMENT OF STRUCTURAL FILL MATERIAL SHALL BE SUBSIDIARY TO ITEM 616.192.

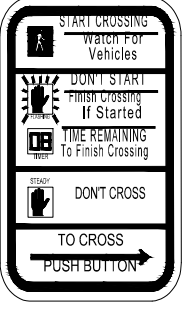
7. SEE SPECIAL PROVISION 616.192 FOR STREET NAME PLACEMENT. INSTALLATION OF STREET NAME SIGN SHALL BE SUBSIDIARY TO ITEM 616.192.
8. INTERSECTION SHALL OPERATE IN FREE OPERATIONS 24 HOURS/DAY AND 7 DAYS/WEEK.

PROPOSED CONDUIT SCHEDULE				
I.D.	NO.	LENGTH	SCHEDULE TYPE	REMARKS
①-②	1	29'	40	FROM exist cc TO PROP PB
②-③	1	12'	40	FROM PROP PB TO PROP TS
②-④	1	40'	80	FROM PROP PB TO PROP PB
④-⑤	1	17'	40	FROM PROP PB TO exist ts
④-⑥	1	82'	80	FROM PROP PB TO PROP PB
⑥-⑦	1	6'	40	FROM PROP PB TO PROP TS
⑥-⑧	1	21'	40	FROM PROP PB TO PROP MA
⑥-⑨	1	38'	40	FROM PROP PB TO PROP PB
⑩-⑪	1	28'	40	FROM exist ma TO PROP TS
TOTAL:			40 151'	80 122' 40 = 3-INCH PVC SCHEDULE 40 80 = 3-INCH PVC SCHEDULE 80

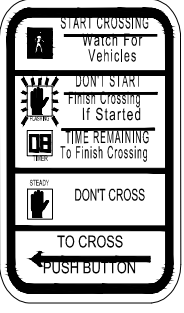
EXISTING AND PROPOSED SIGNS



R9-5
12"x18"
2--PROPOSED



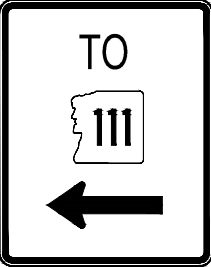
R10-3eR
9"x15"
1--PROPOSED



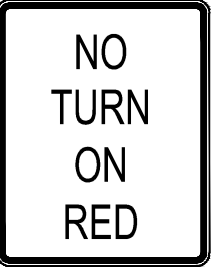
R10-3eL
9"x15"
1--PROPOSED



D3-1d
12"x30"
1--PROPOSED



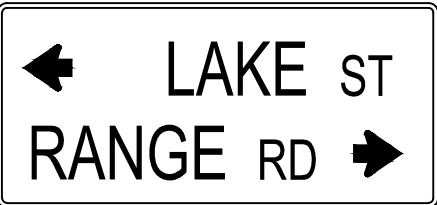
SP-1
1--EXISTING



R10-11a
1--EXISTING



D3-1f
1--EXISTING



D3-1e
1--REMOVED



D3-1g
16"x54"
1--PROPOSED



D3-1h
30"x90"
1--PROPOSED

EXISTING / PROPOSED FOUNDATION SCHEDULE

I.D.	STATION	FOUNDATION TYPE	REMARKS
①	STA 157+45 LT 22	ccfnd	existing controller cabinet
②	STA 157+74 LT 09	PB	PROPOSED PULL BOX
③	STA 157+62 LT 07	TSFND	PROPOSED PEDESTAL POLE
④	STA 158+13 LT 07	PB	PROPOSED PULL BOX
⑤	STA 158+06 RT 08	tsfnd	existing pedestal pole
⑥	STA 158+95 LT 09	PB	PROPOSED PULL BOX
⑦	STA 158+90 LT 06	TSFND	PROPOSED PEDESTAL POLE
⑧	STA 159+05 RT 08	TYPE TBD	W/ ANCHOR BOLTS FOR SIGNAL POLE
⑨	STA 159+19 RT 20	PB	PROPOSED PULL BOX
⑩	STA 158+32 RT 92	-	existing mast arm
⑪	STA 158+06 RT 101	TSFND	PROPOSED PEDESTAL POLE

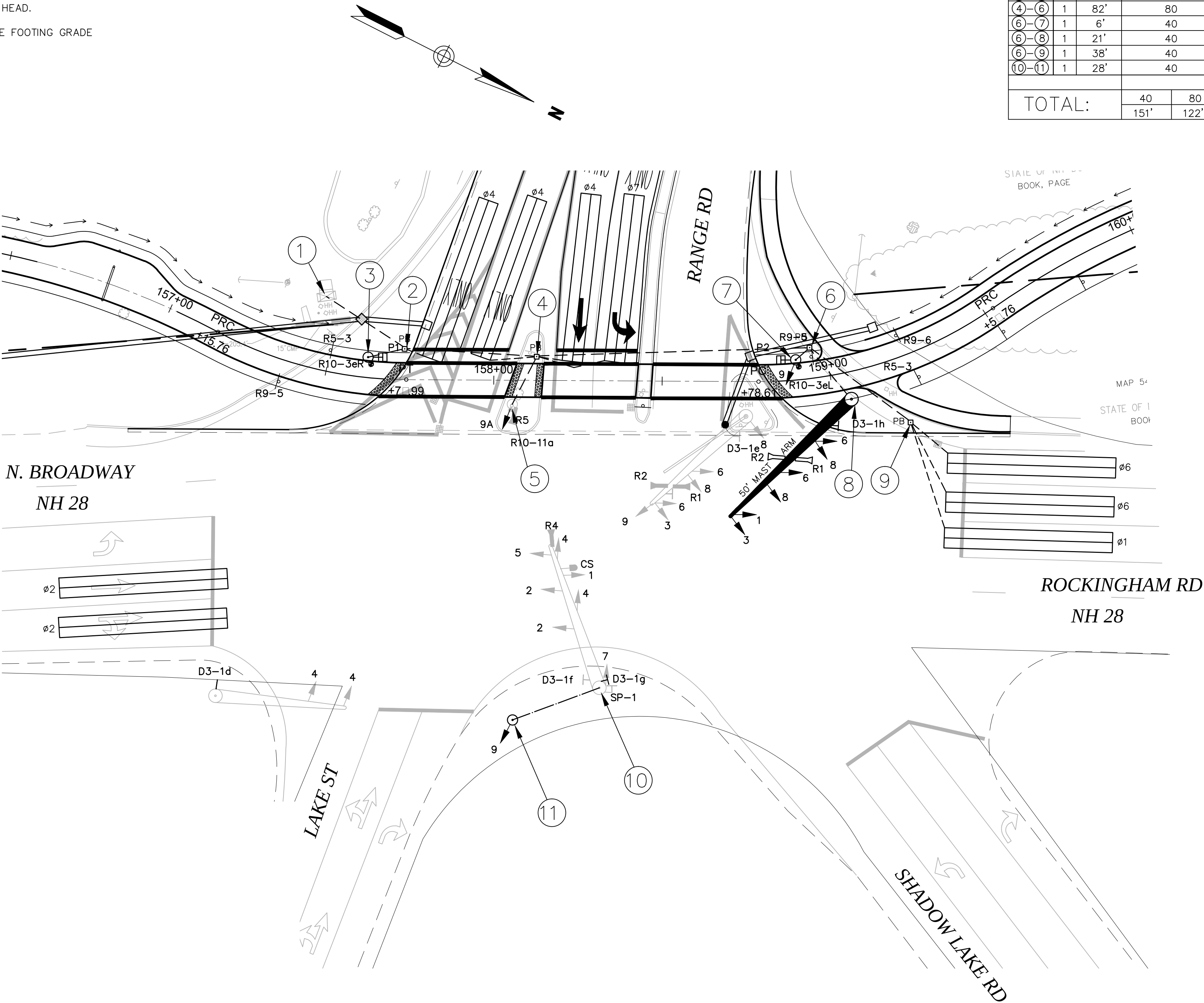
WHERE:

TYPE # = TRAFFIC SIGNAL MAST ARM FOUNDATION CONSTRUCTED IN ACCORDANCE WITH NHDOT TRAFFIC SIGNAL STANDARD TS-1, TS-2, OR TS-3 AS APPLICABLE. TBD MEANS TO BE DETERMINED BY CONTRACTOR OR HIS ENGINEER BASED ON BORINGS TO BE COMPLETED BY THE CONTRACTOR.

PB = 14-INCH CONCRETE PULL BOX CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING STANDARD SL-1

CCFND = CONCRETE FOUNDATION FOR CONTROLLER CABINETS CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING STANDARDS SL-2

TSFND = CONCRETE FOUNDATION FOR PEDESTALS (SIGNAL AND METER) CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING STANDARDS SL-2



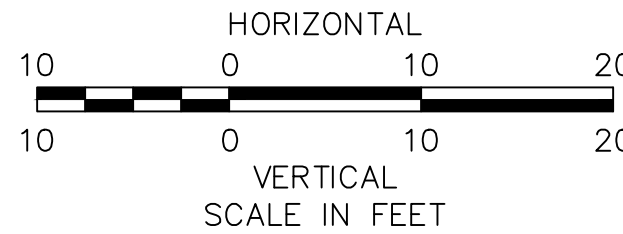
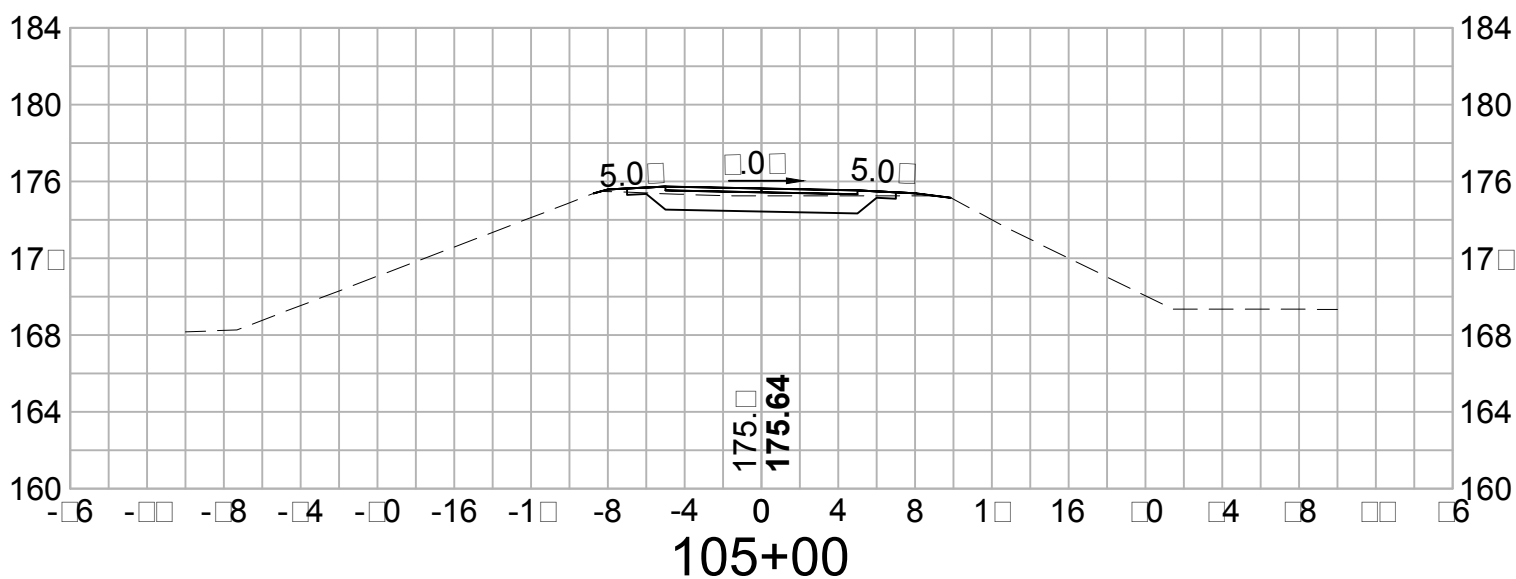
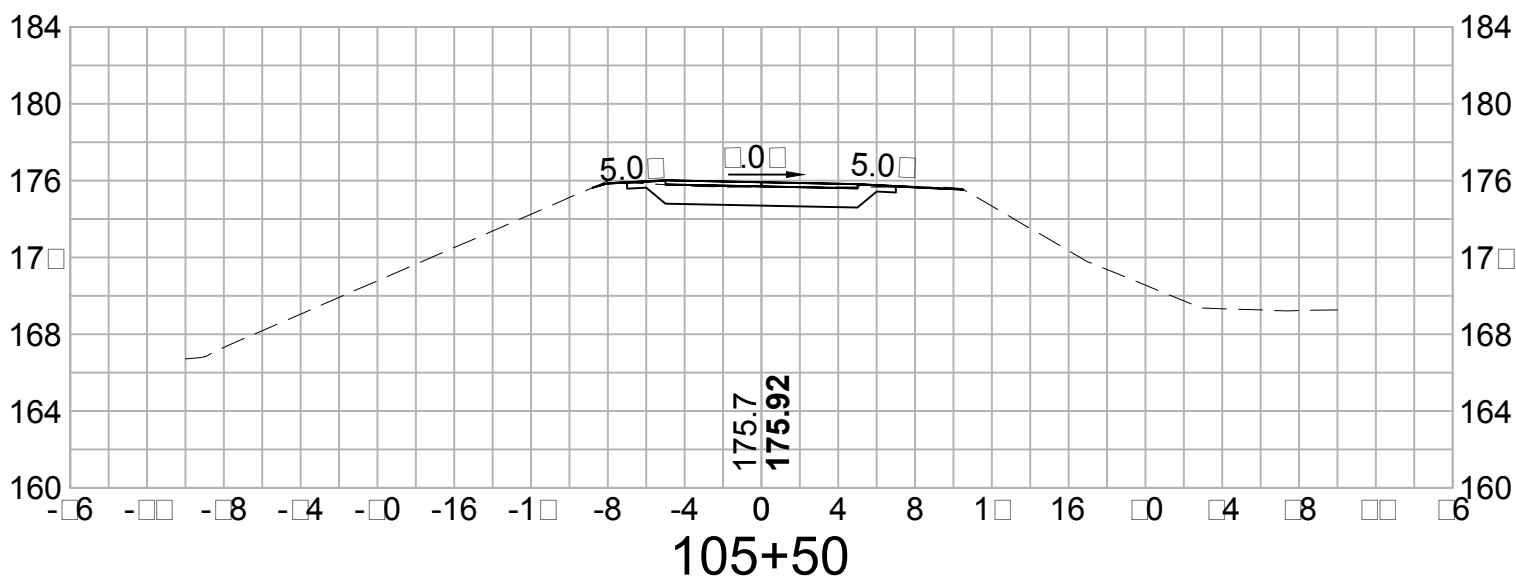
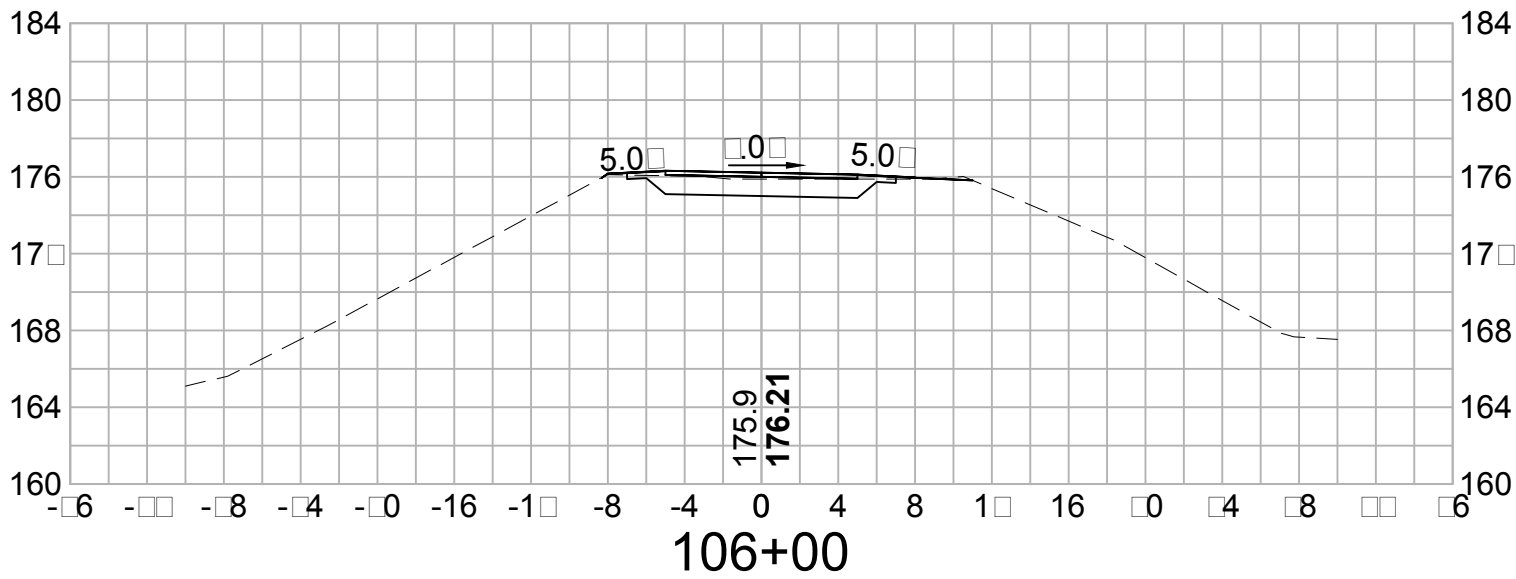
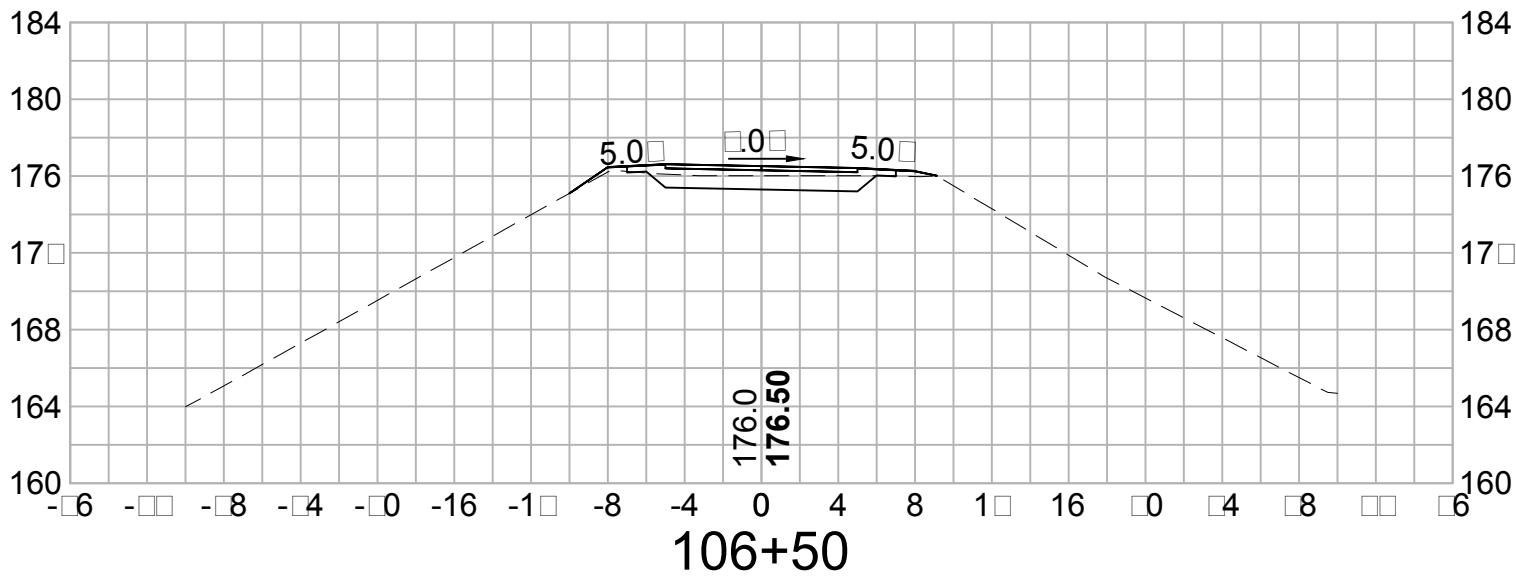
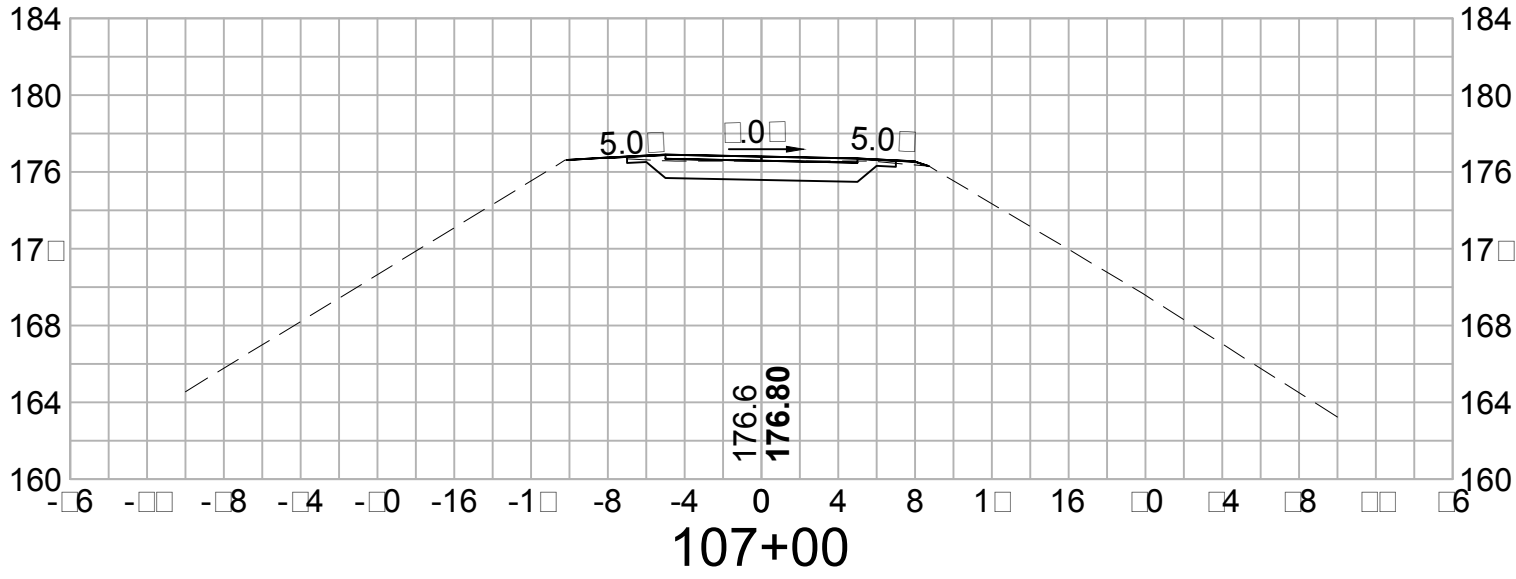
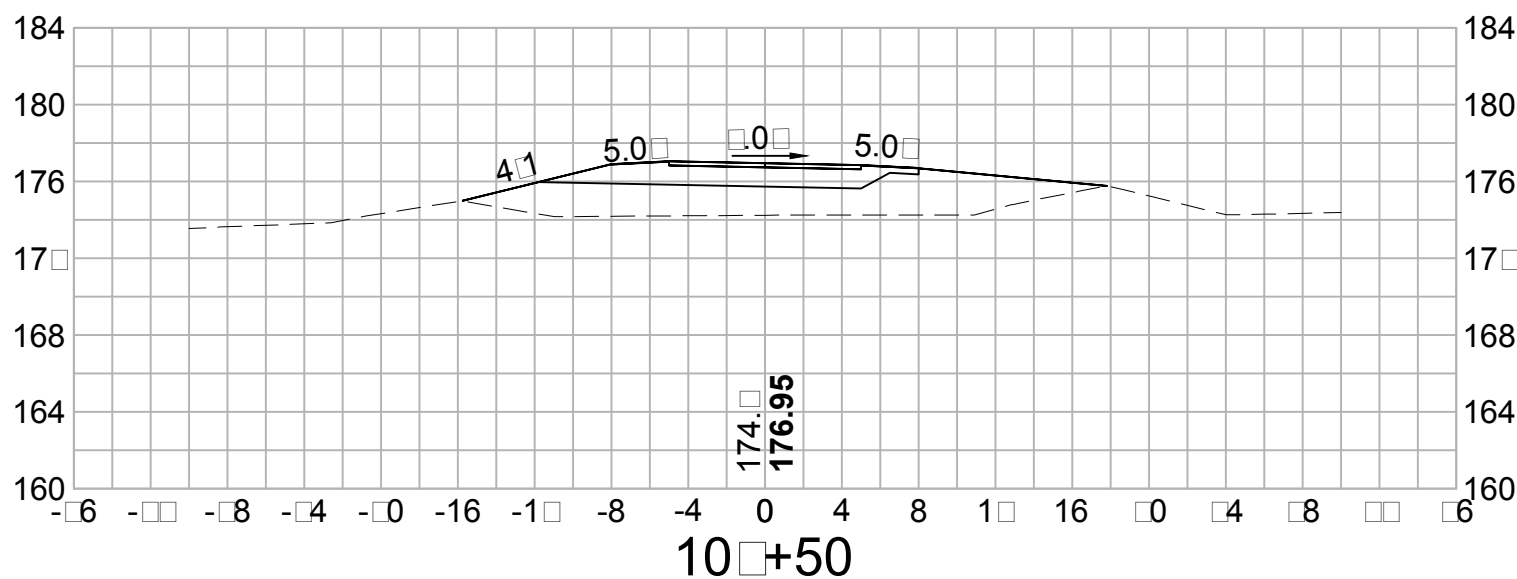
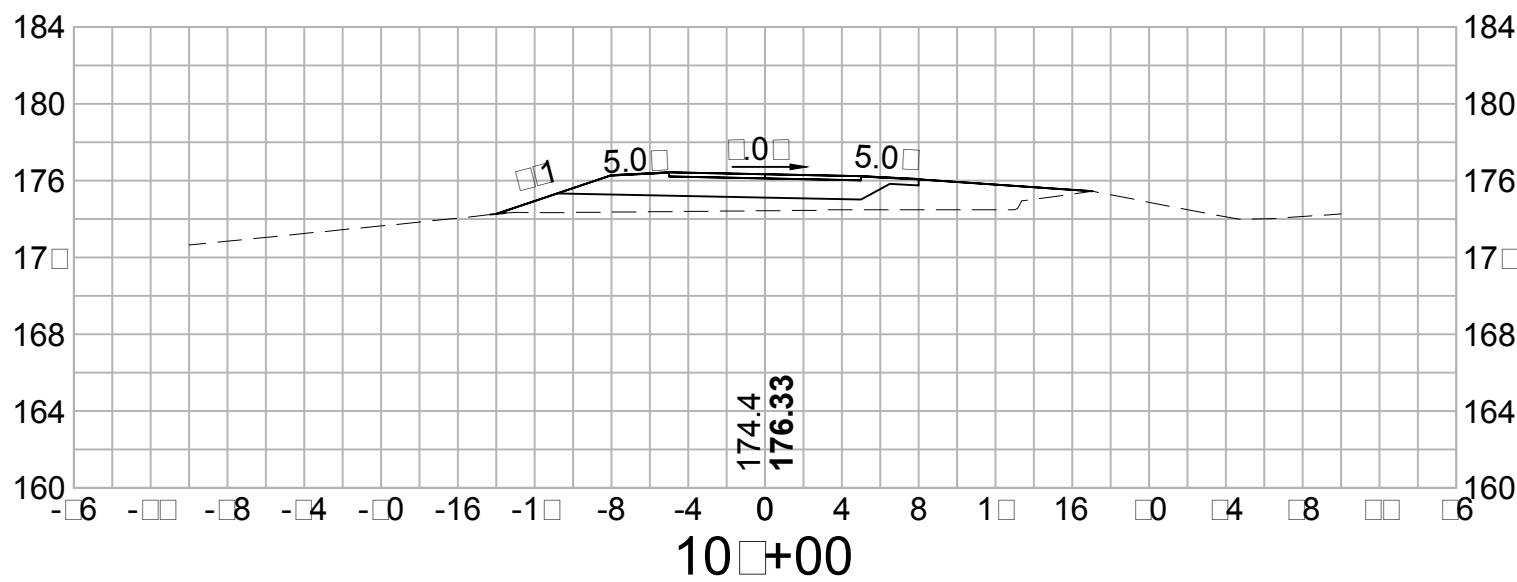
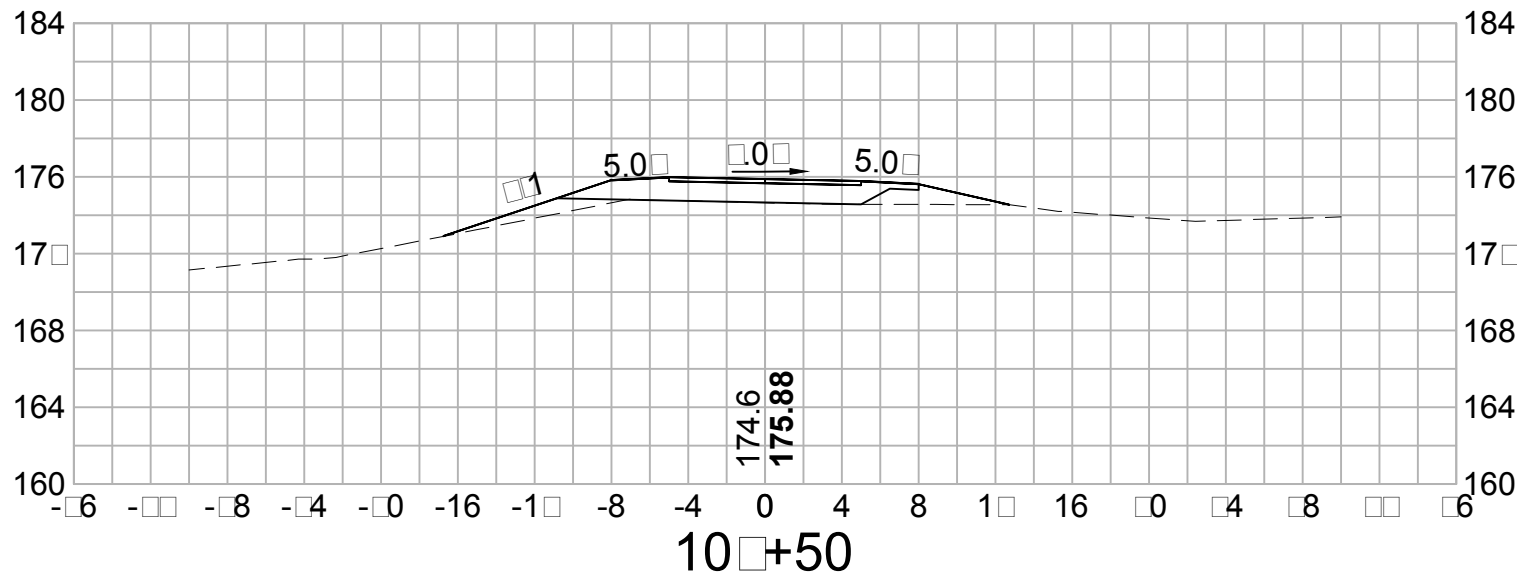
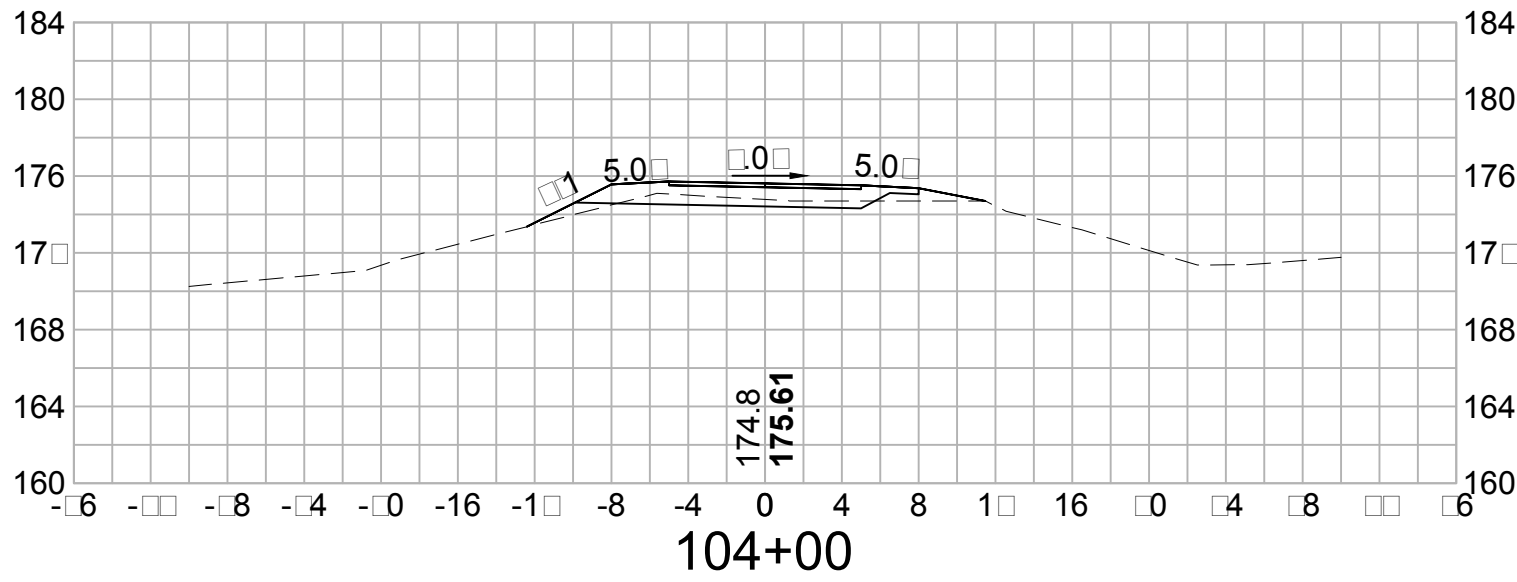
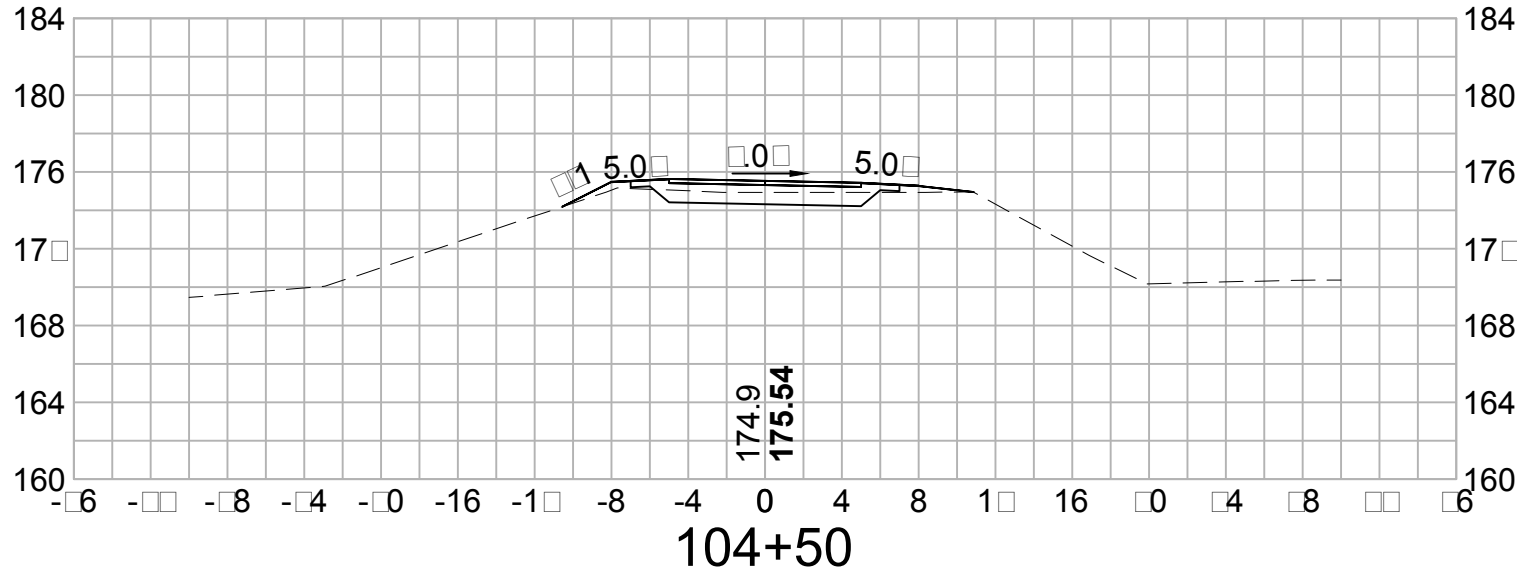
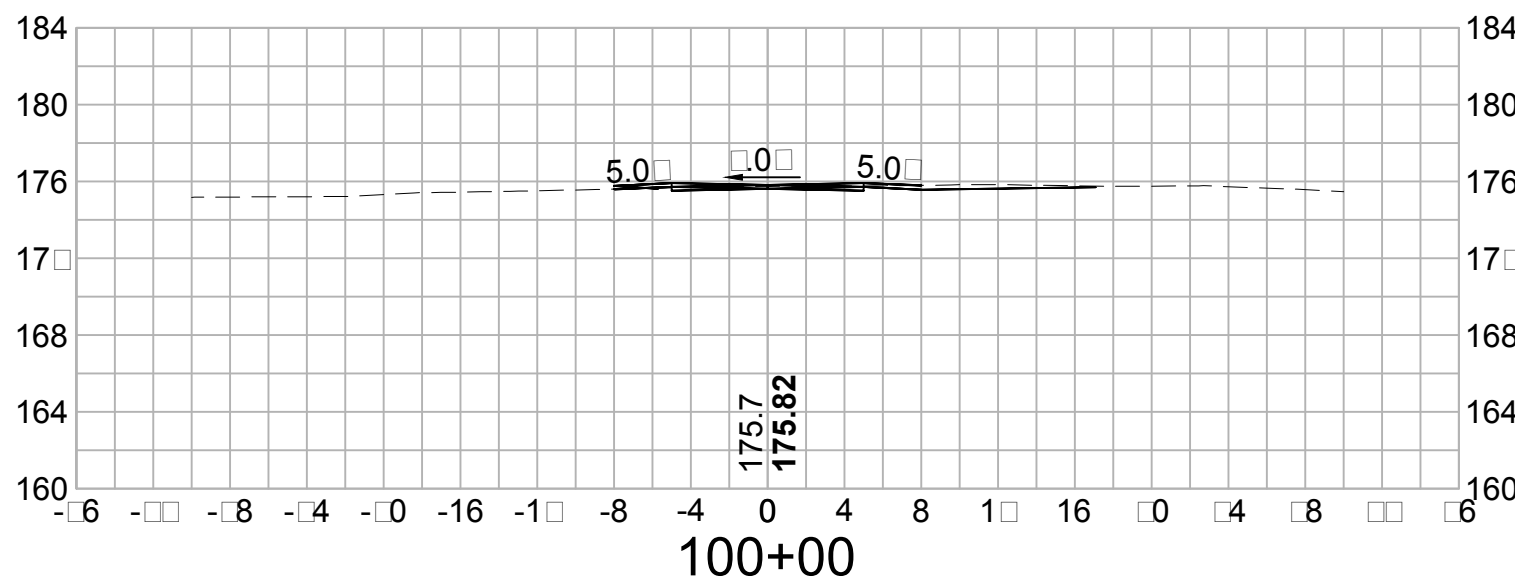
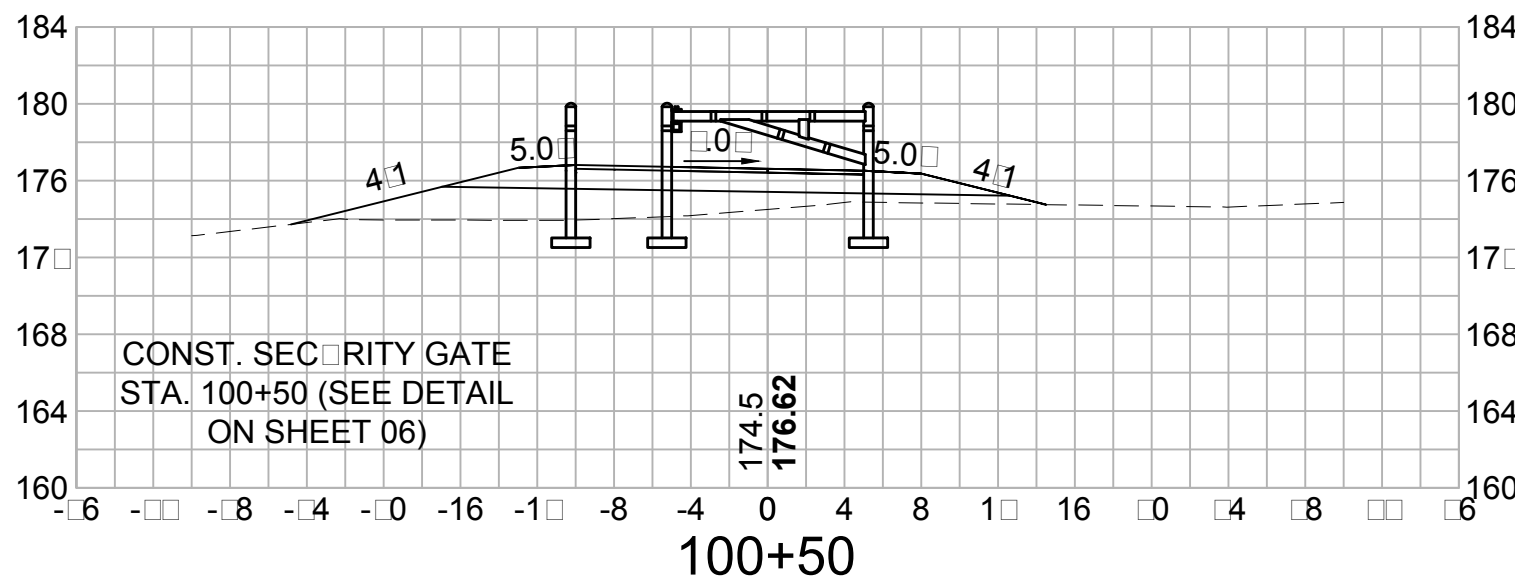
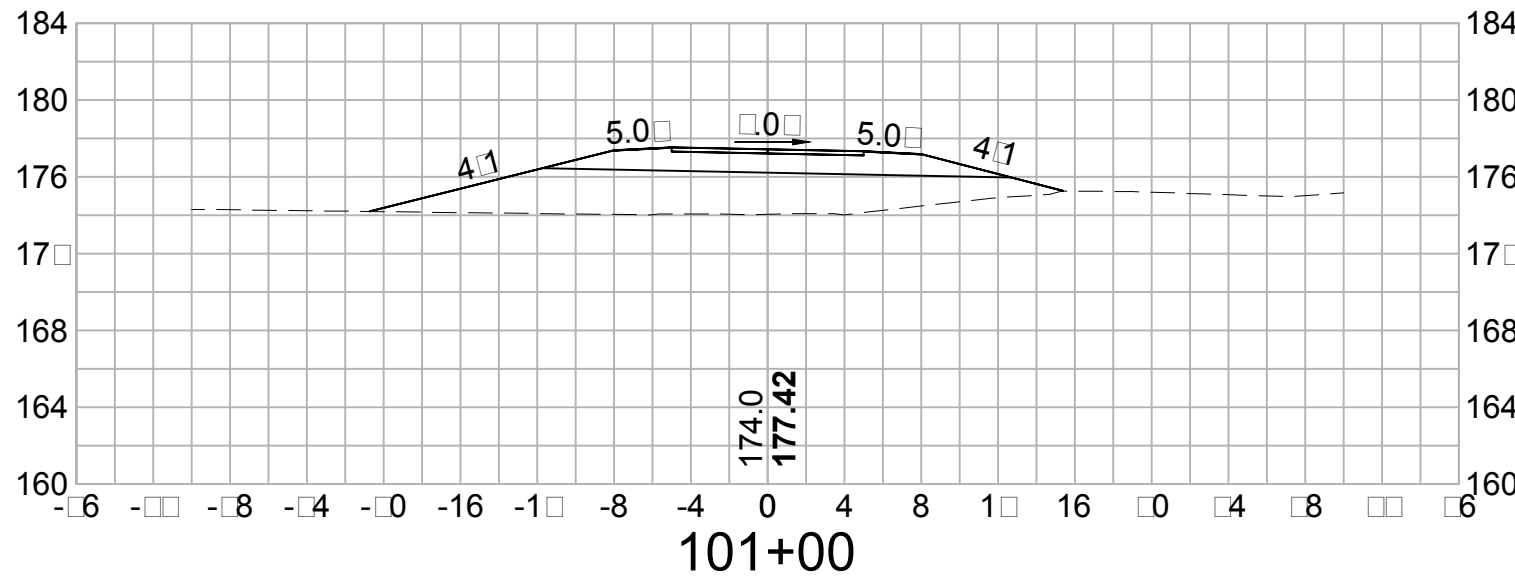
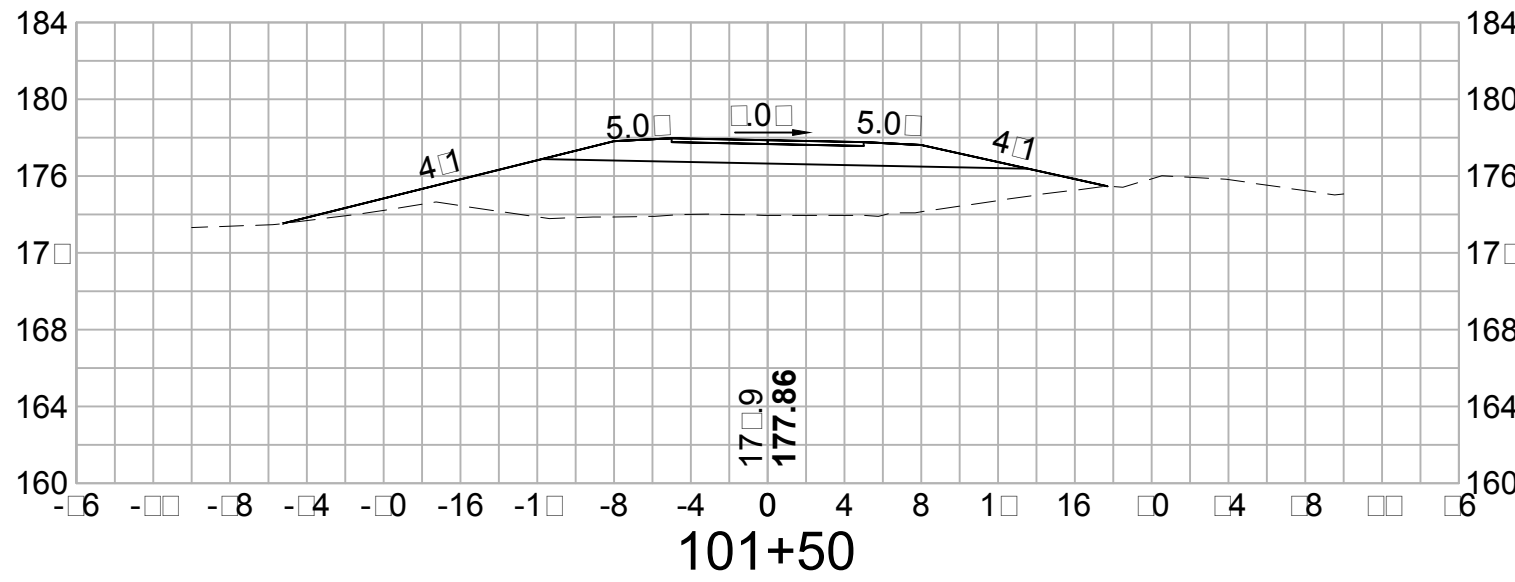
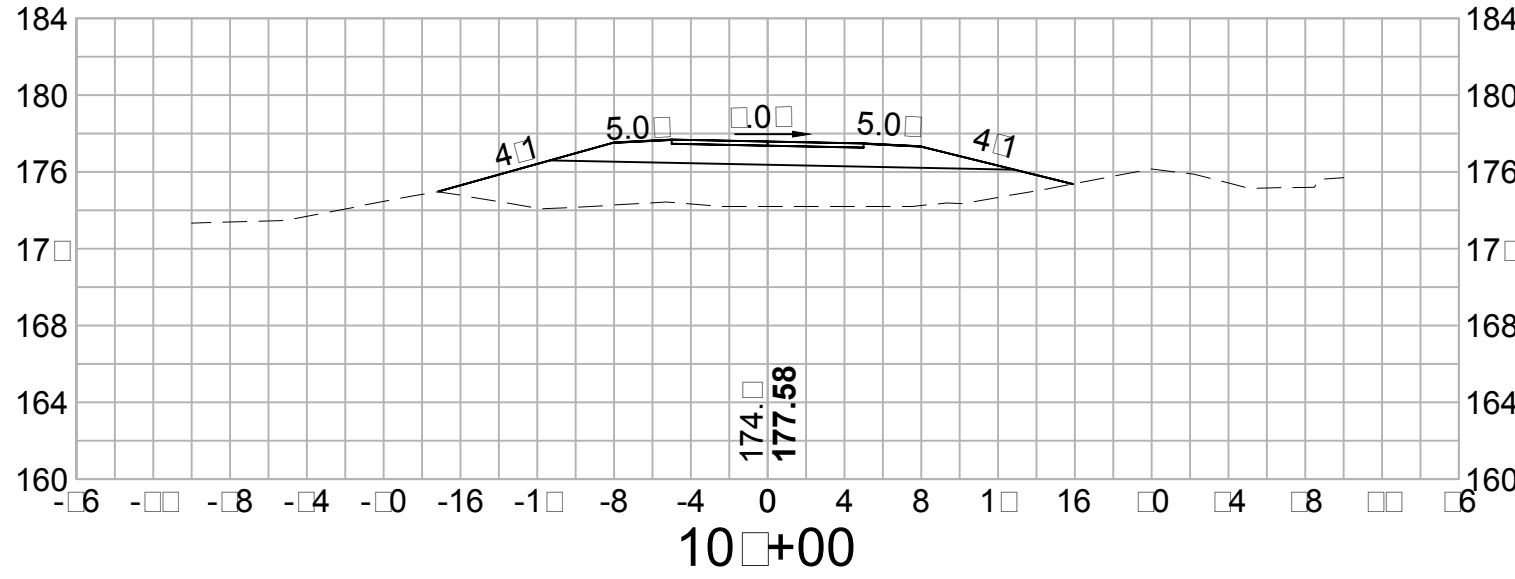
VHB Vanasse Hangen Brustlin, Inc.			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.
14-Jul-15	52304.00	52304-SIG	-

ITEM 616.192

TOWN OF SALEM, NEW HAMPSHIRE					
ROUTE 8 PED/BIKE TRAIL					
NH 28 (ROCKINGHAM RD / N. BROADWAY) & RANGE RD / LAKE ST / SHADOW LAKE RD SIGNALIZATION PLAN S-99-0					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-SIG	-	28	58

REVISIONS AFTER PROPOSAL		DESCRIPTION	
		STATION	
NUMBER		DATE	

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



VHB Vanasse Hangen Brustlin, Inc.

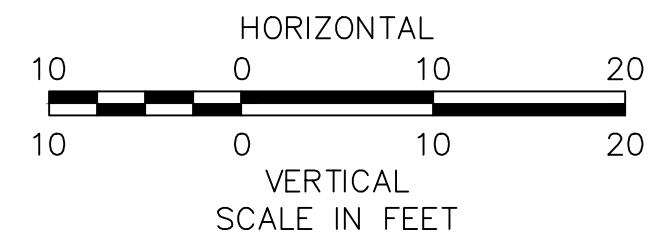
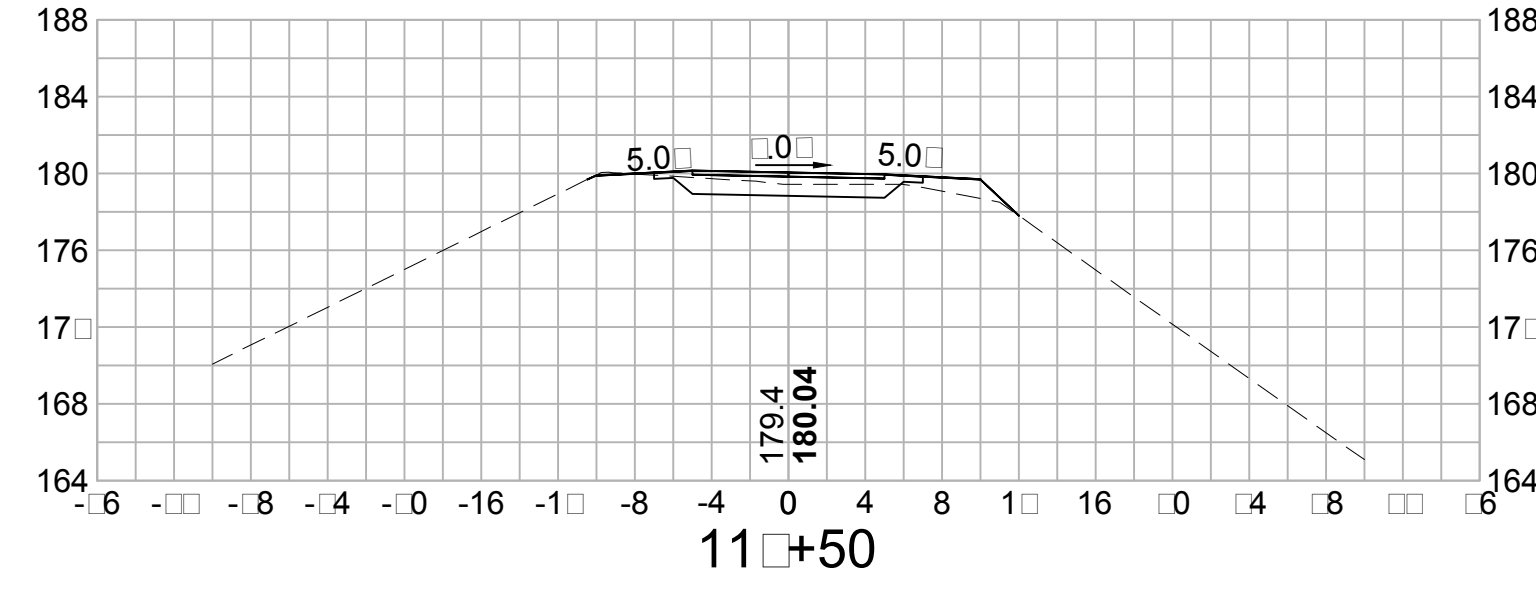
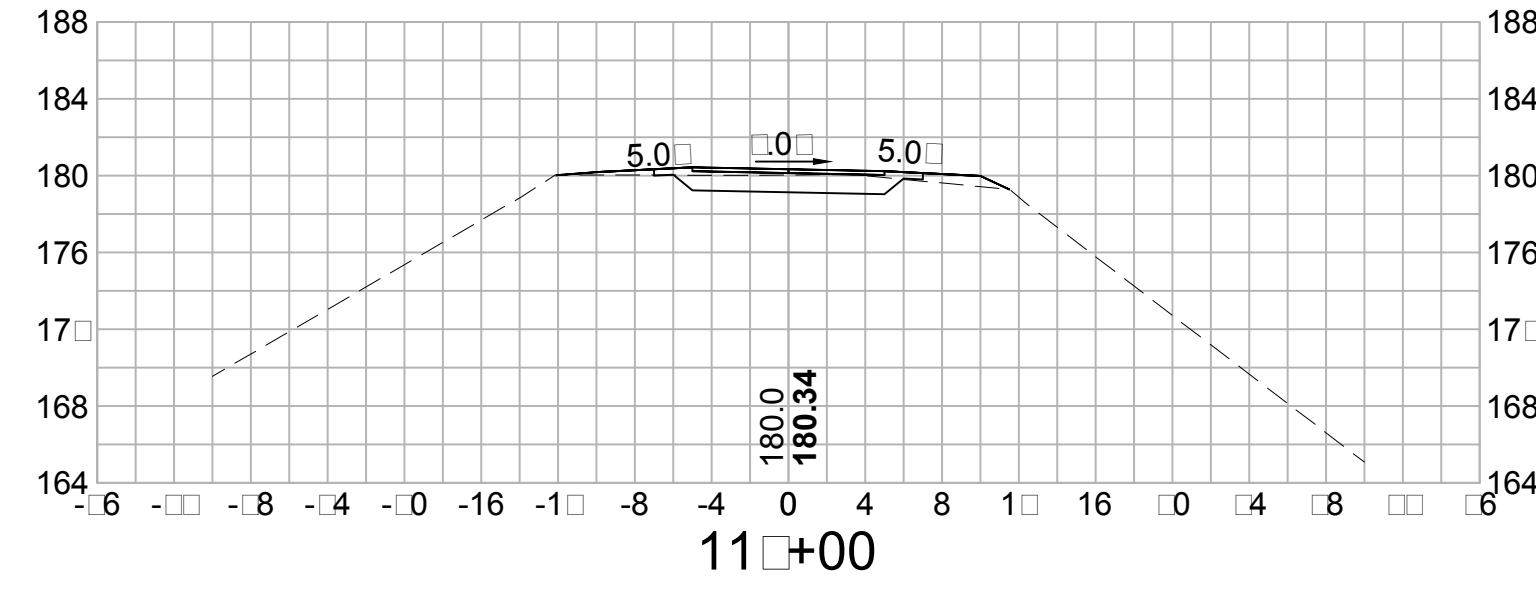
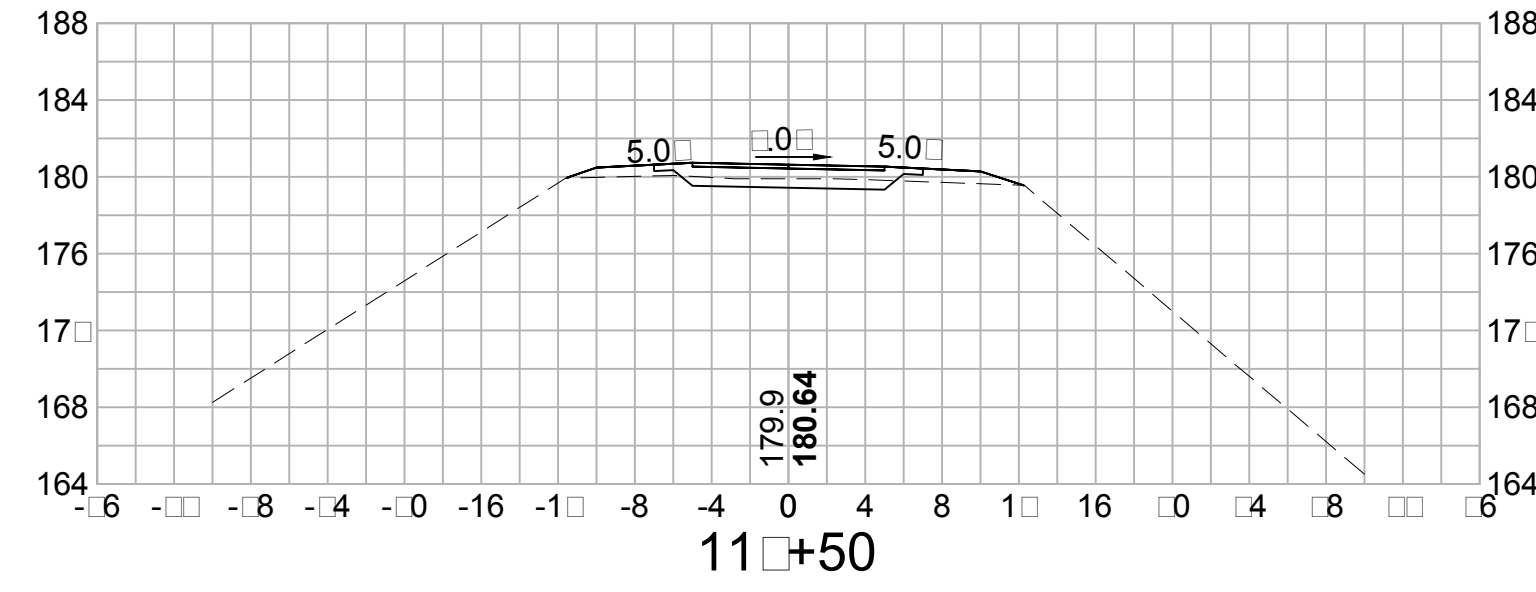
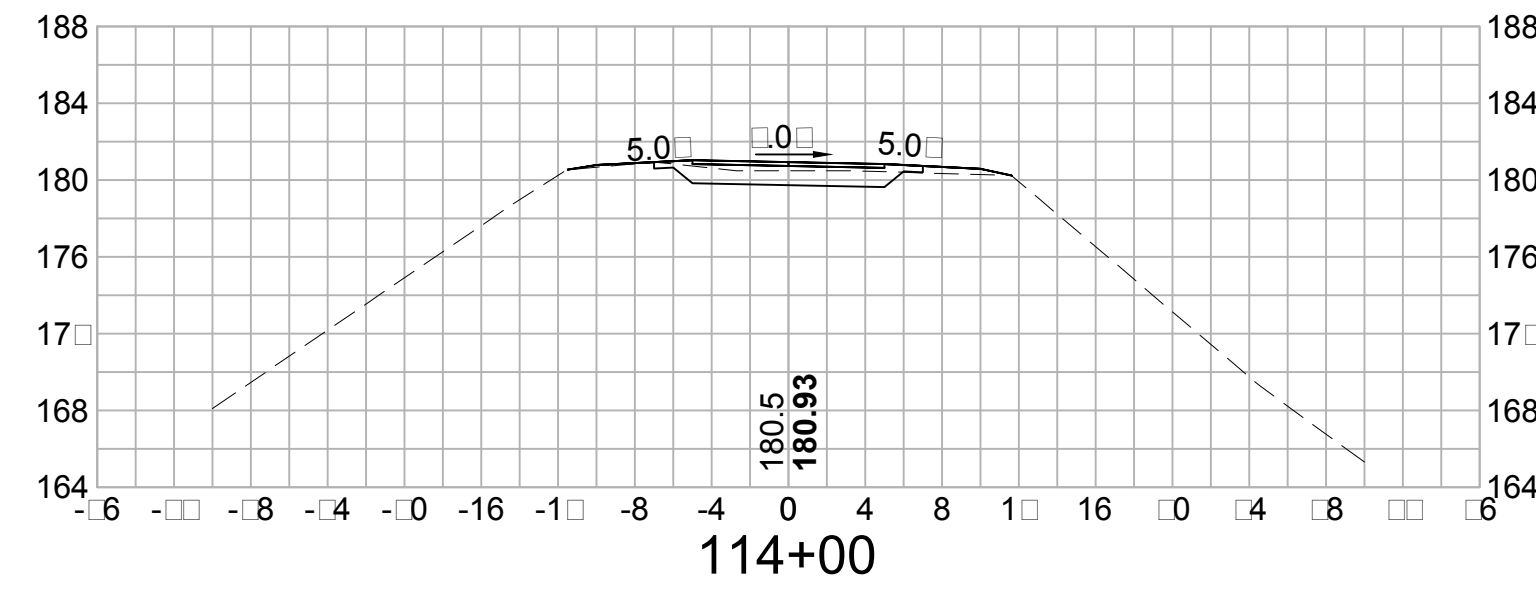
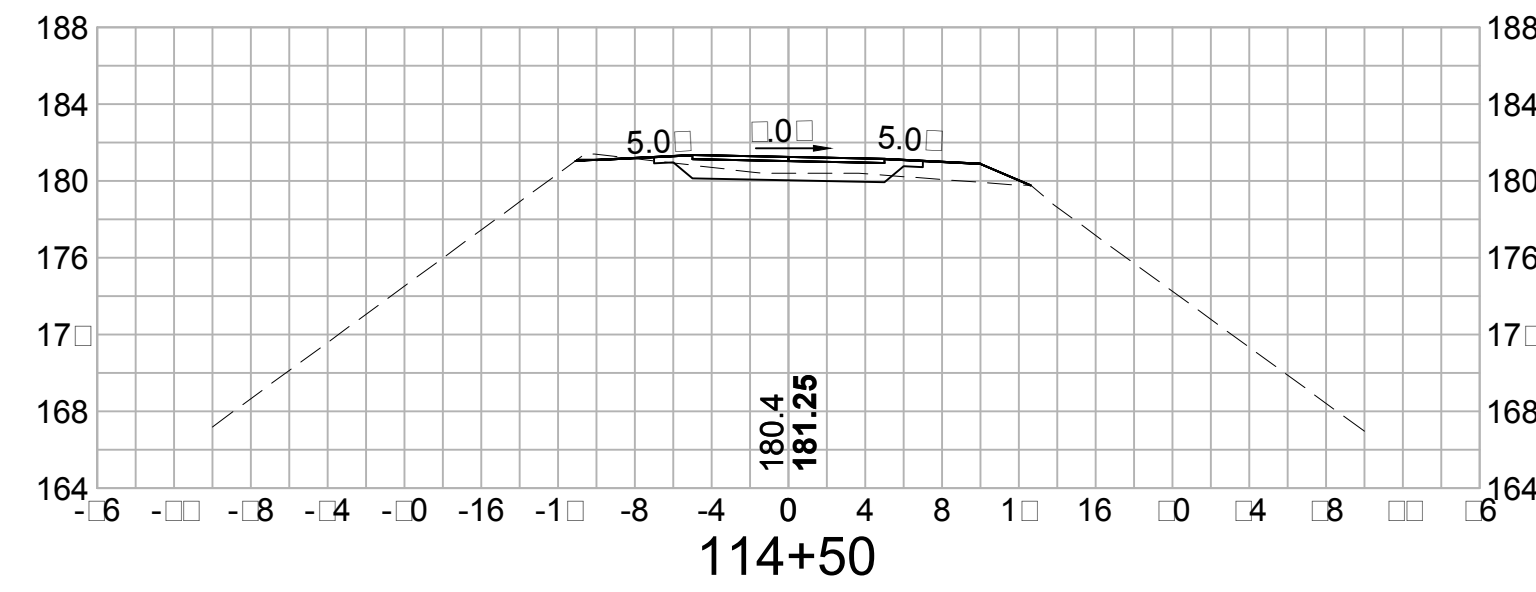
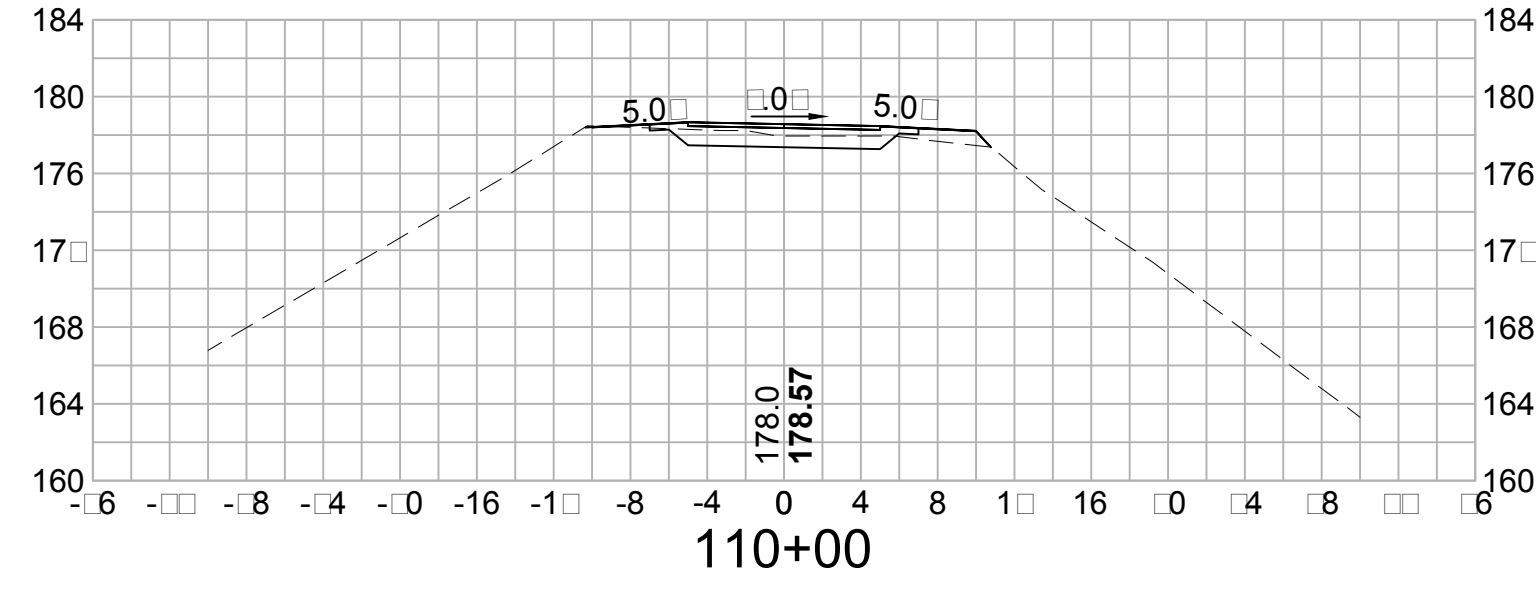
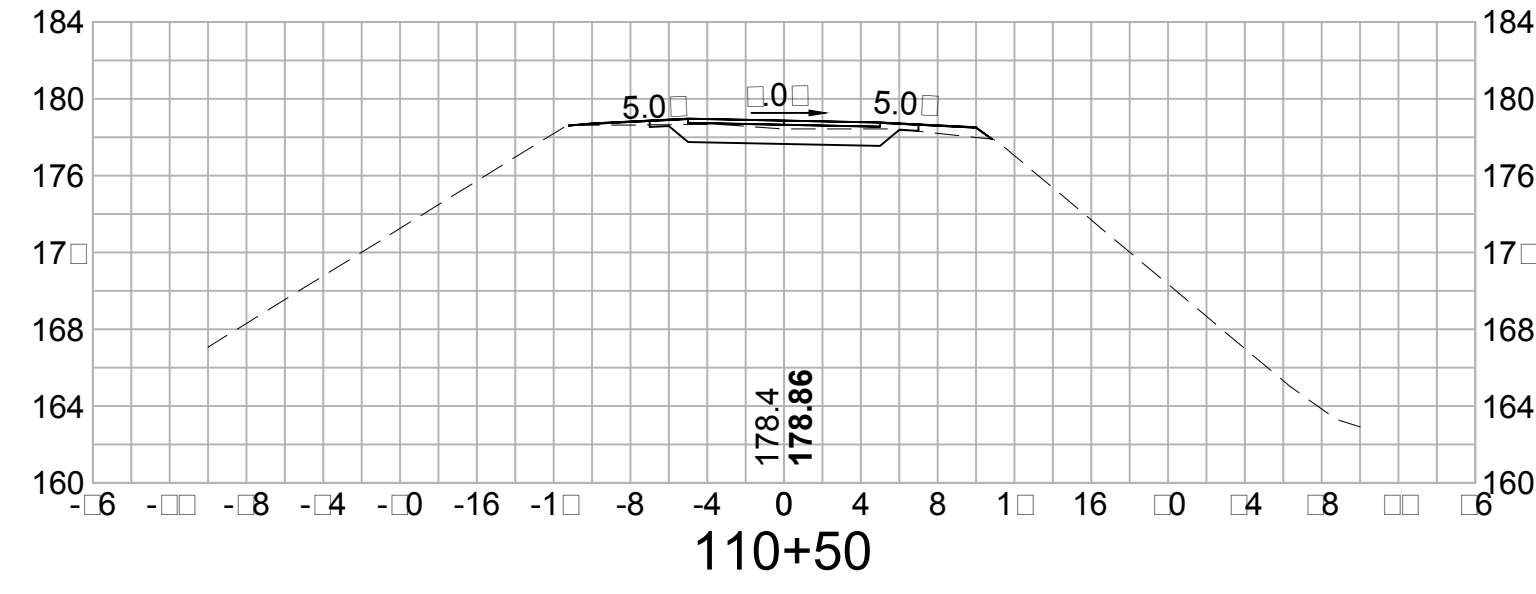
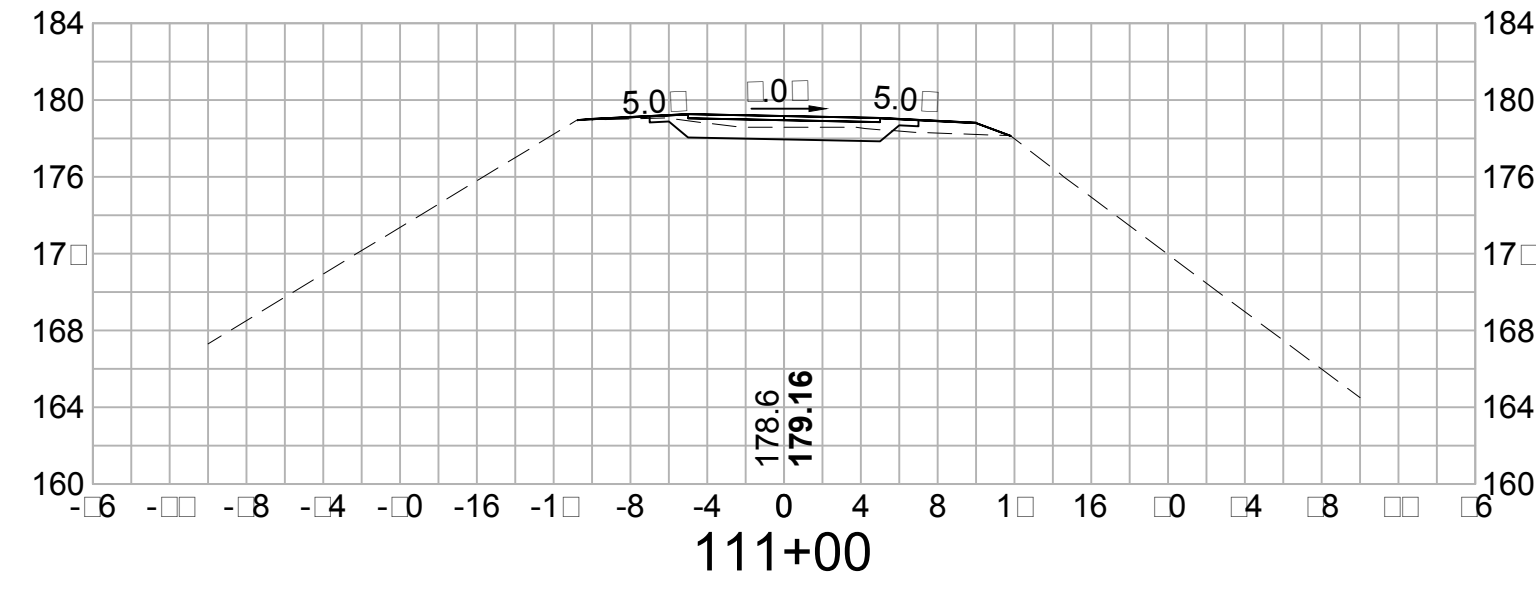
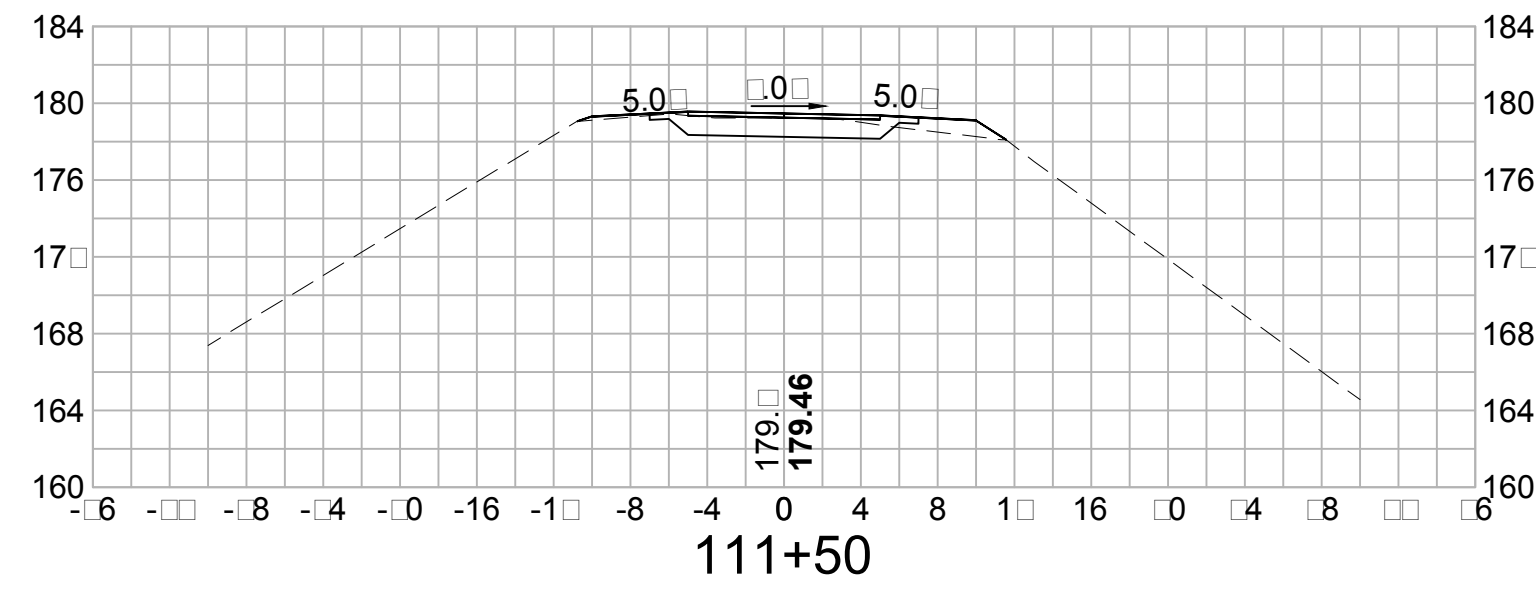
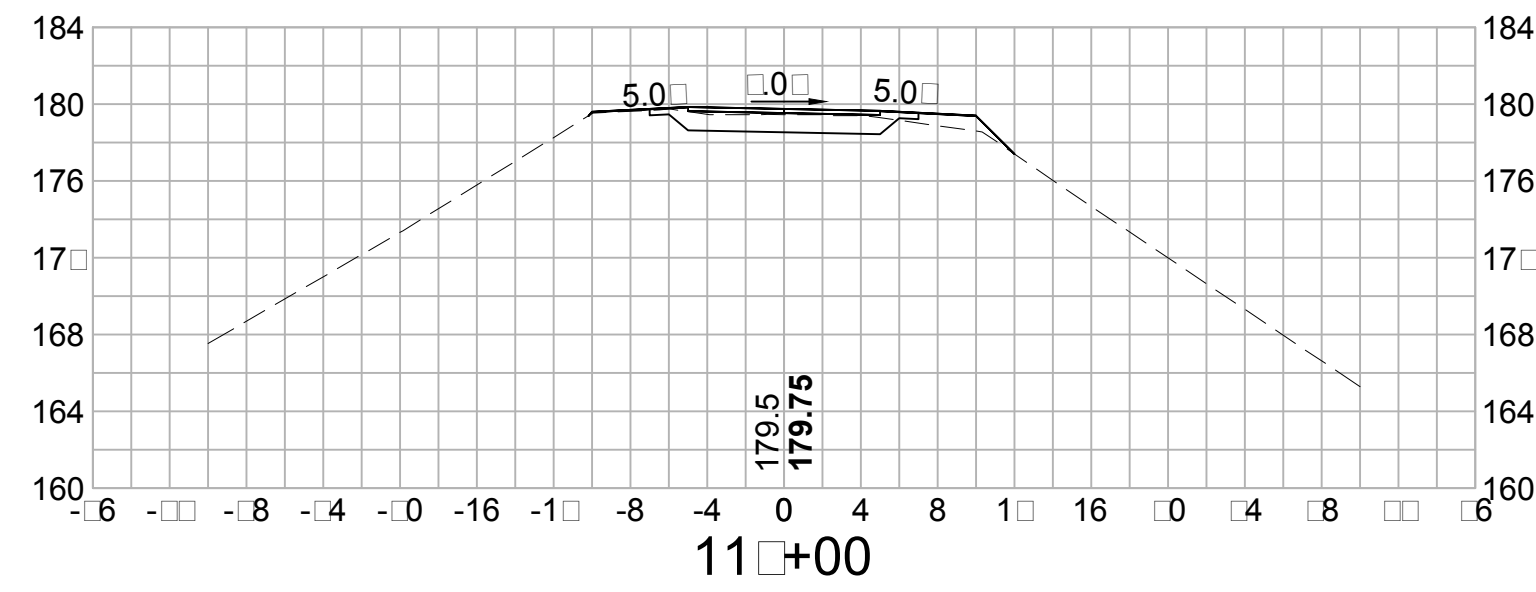
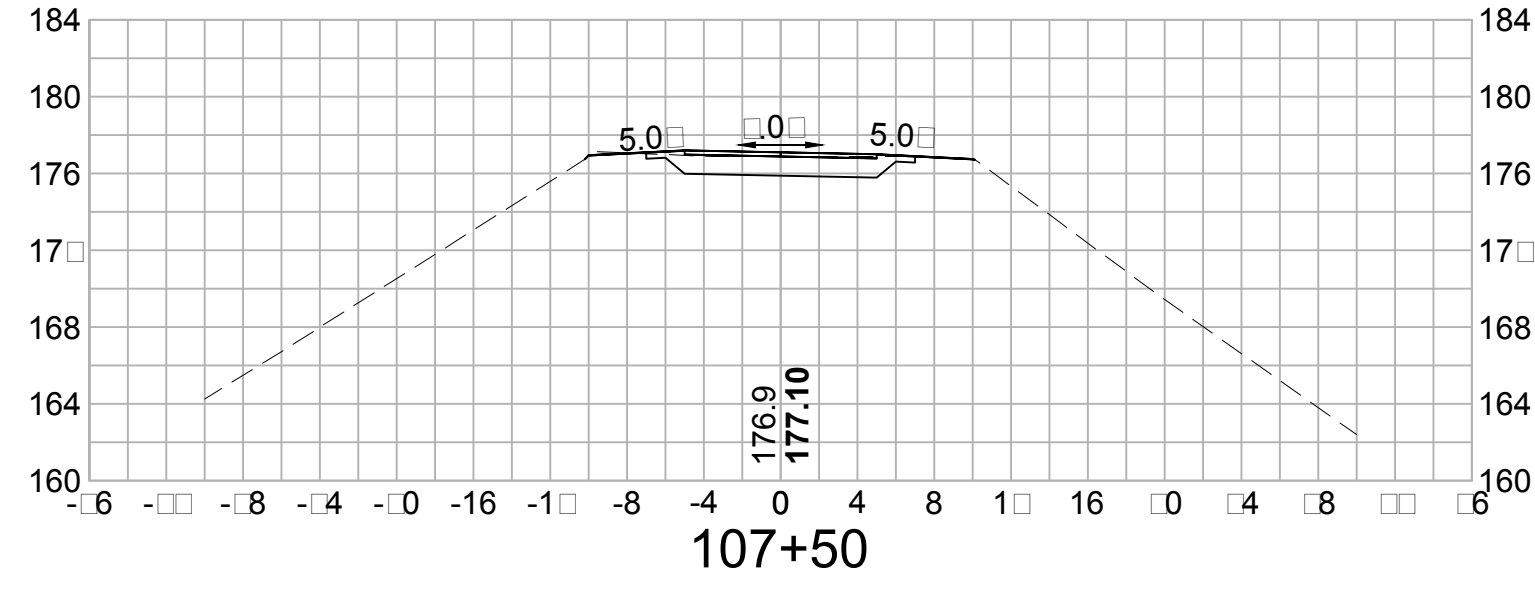
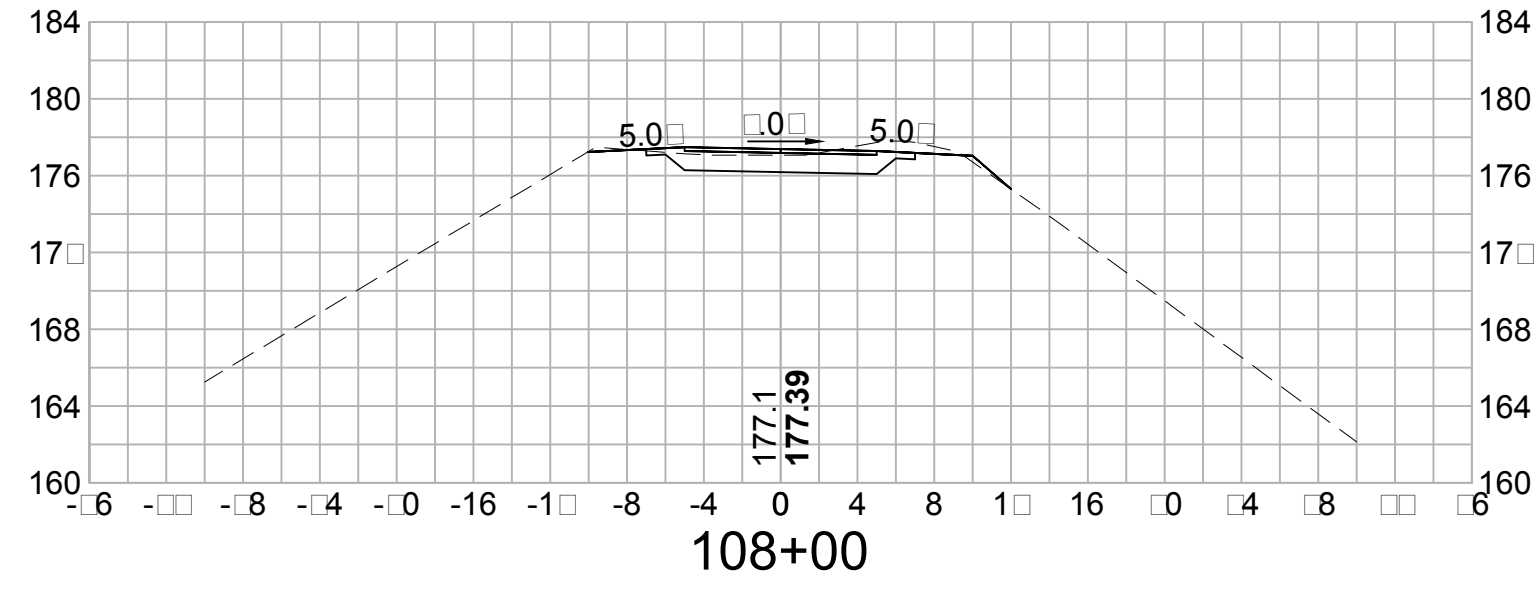
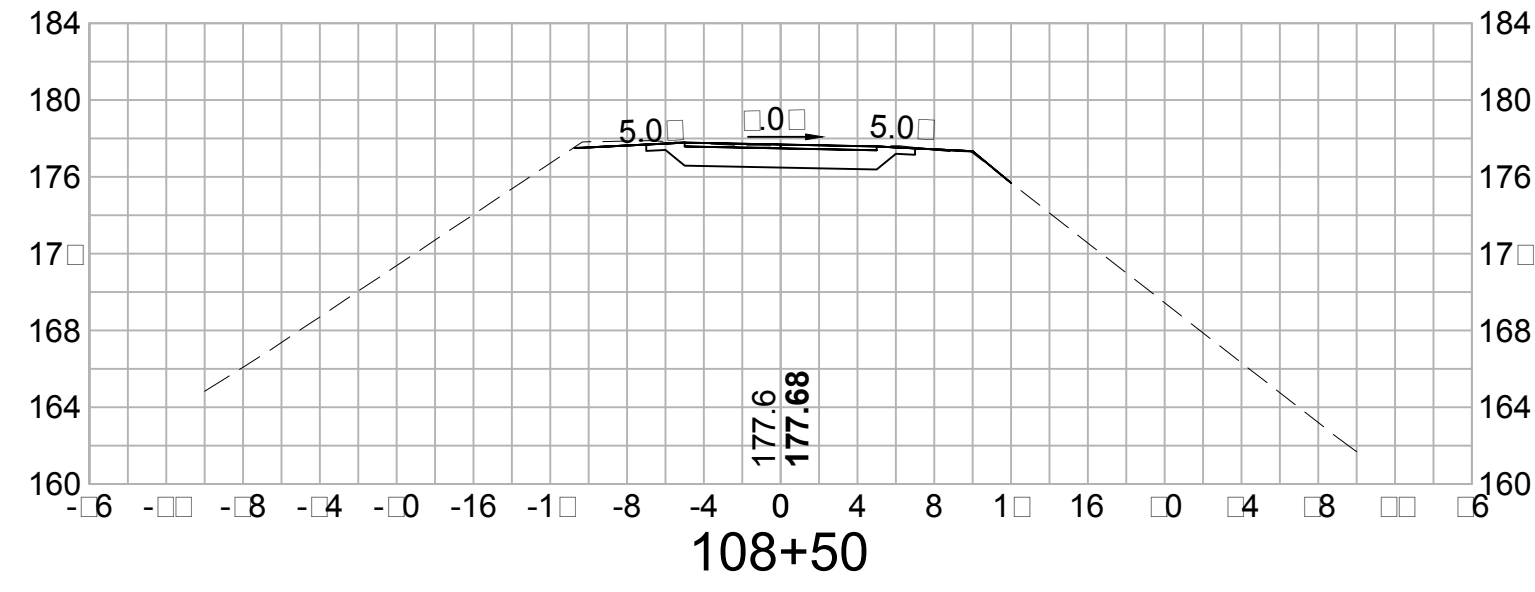
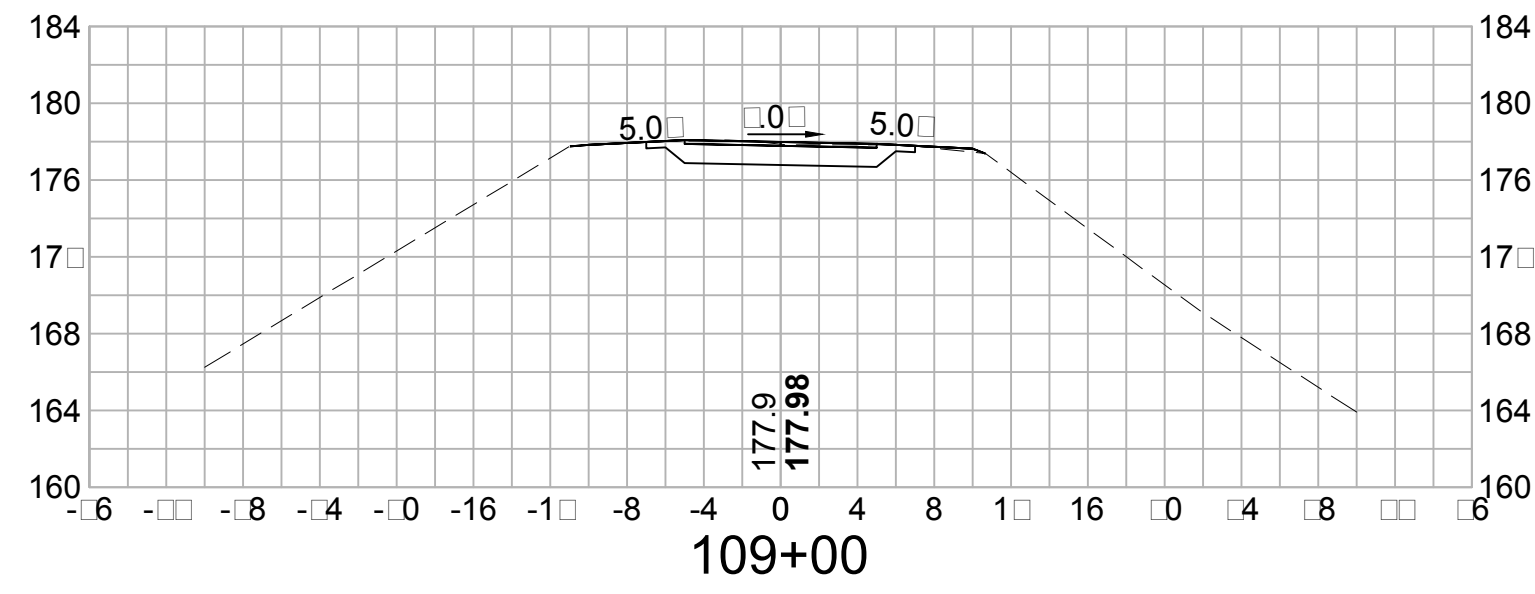
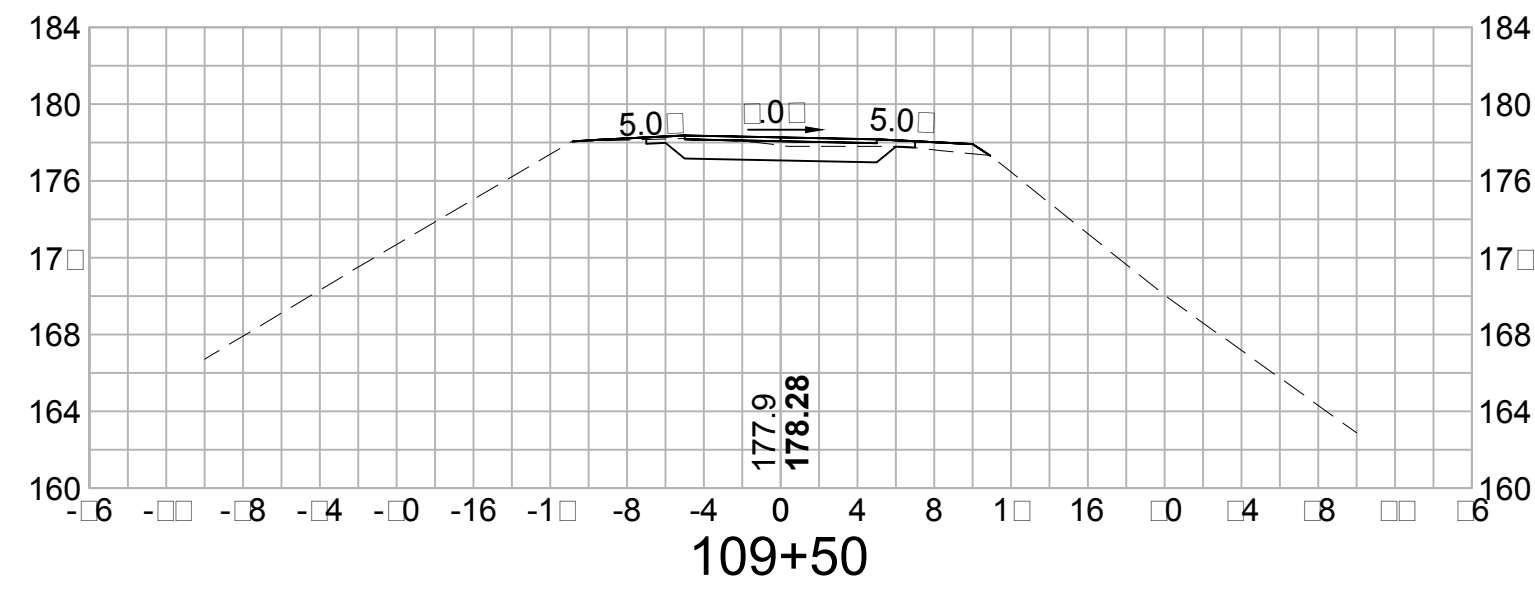
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	30	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

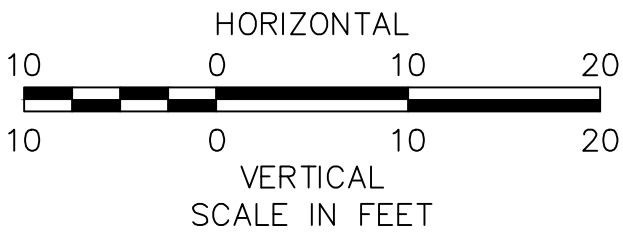
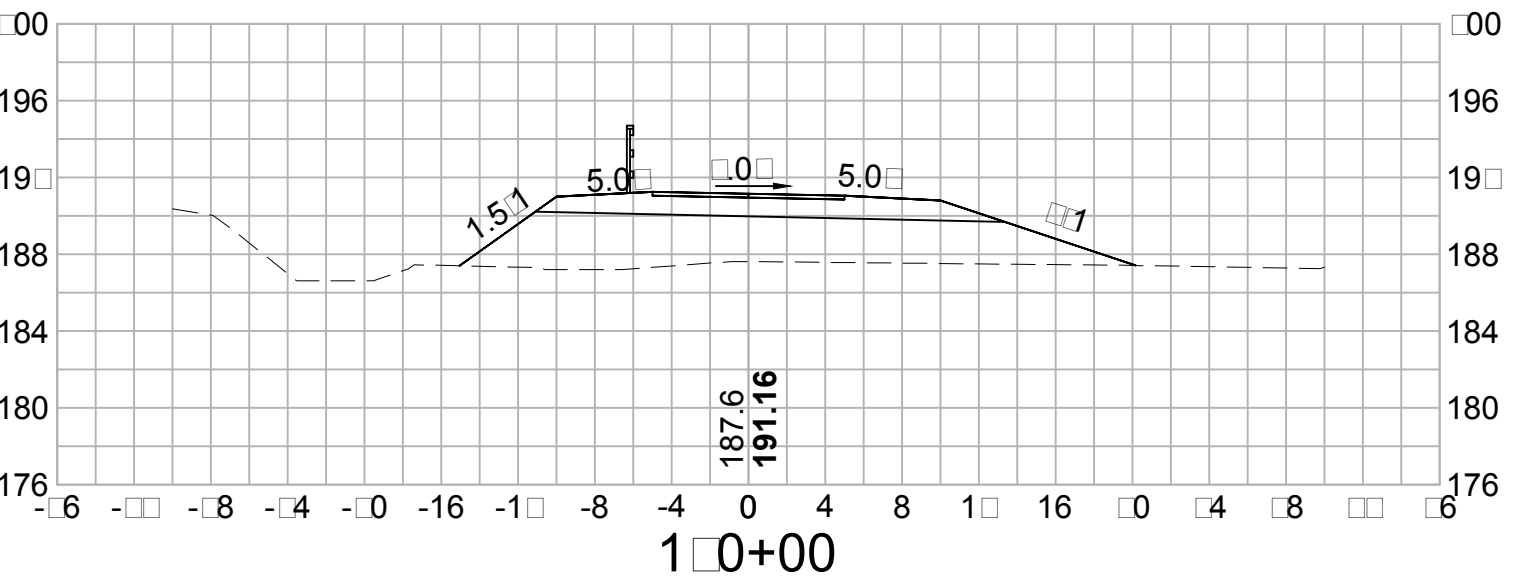
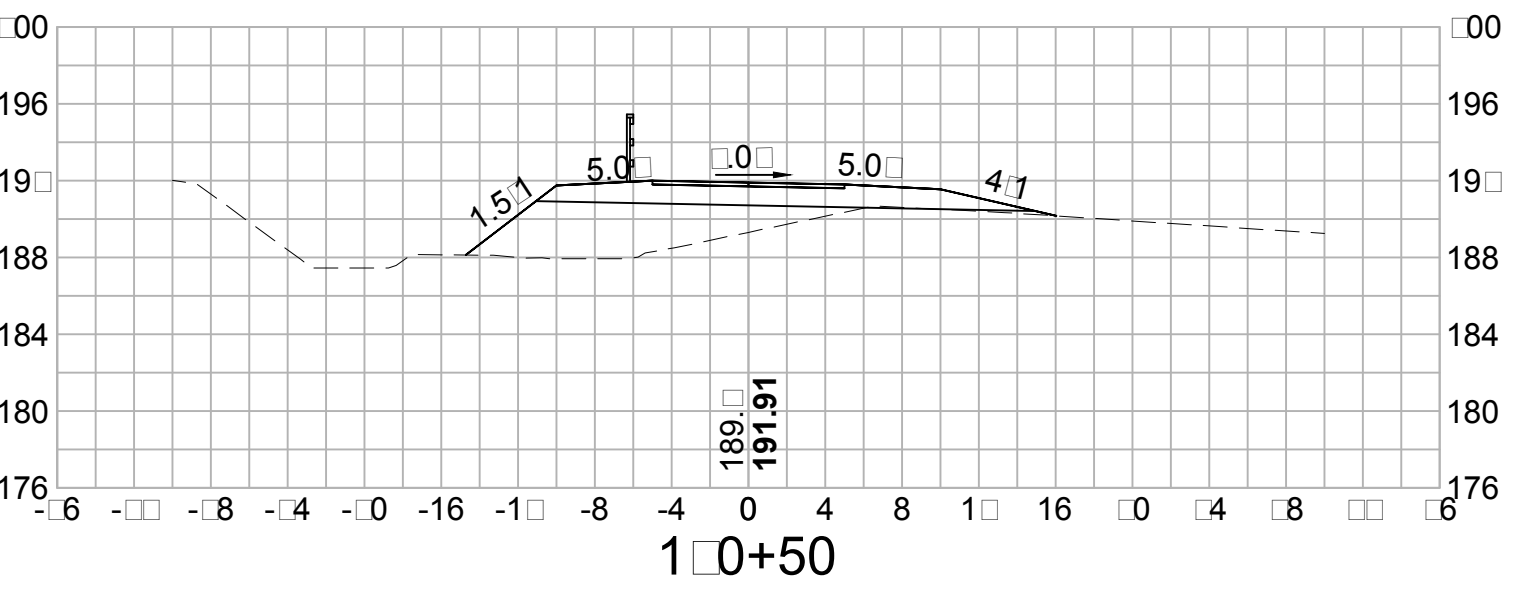
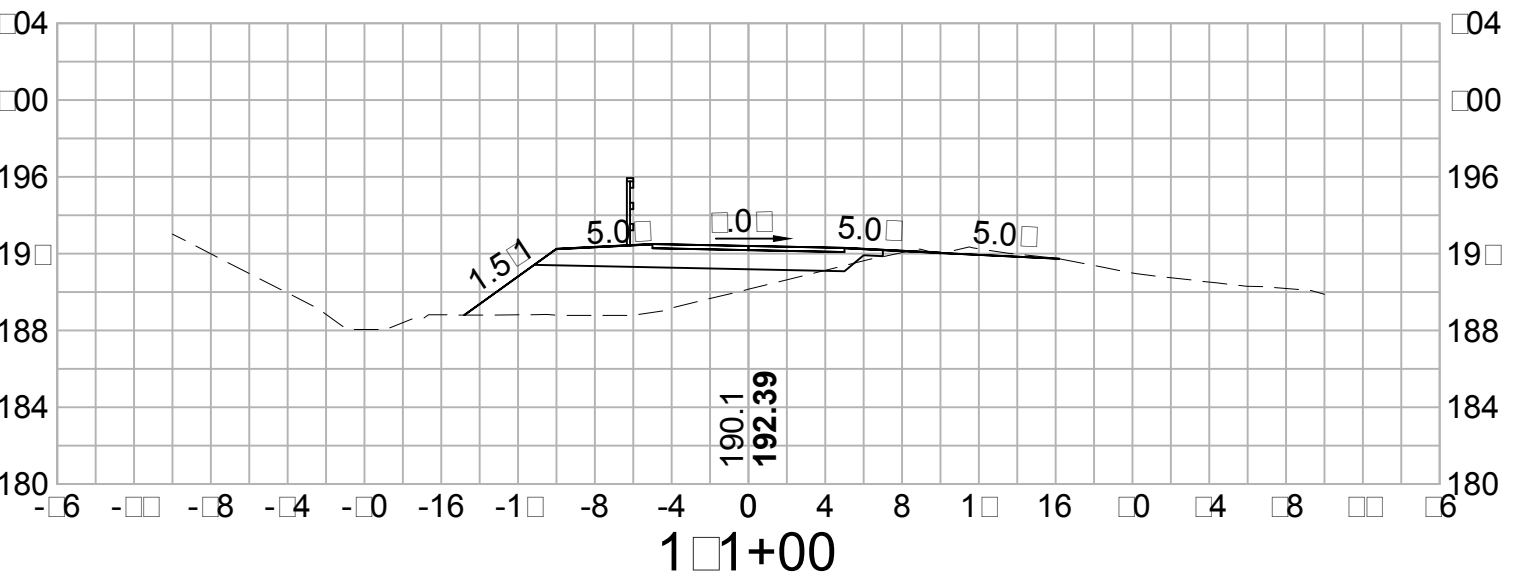
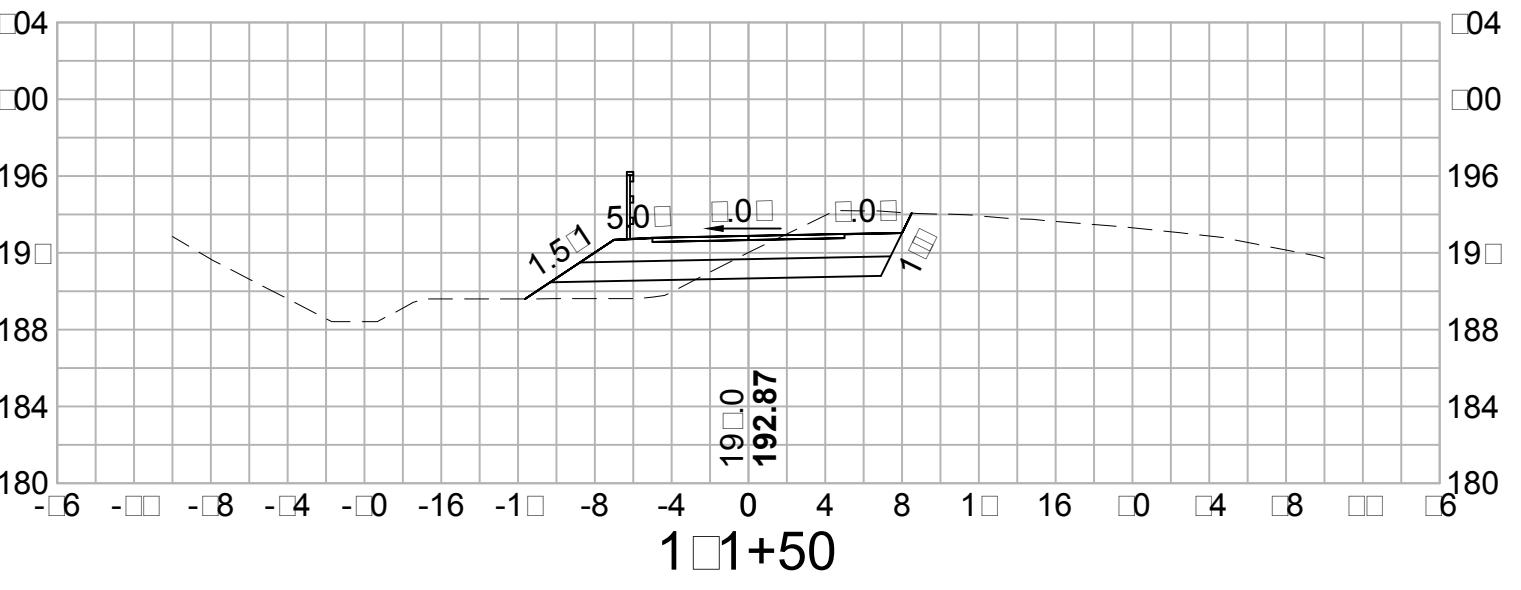
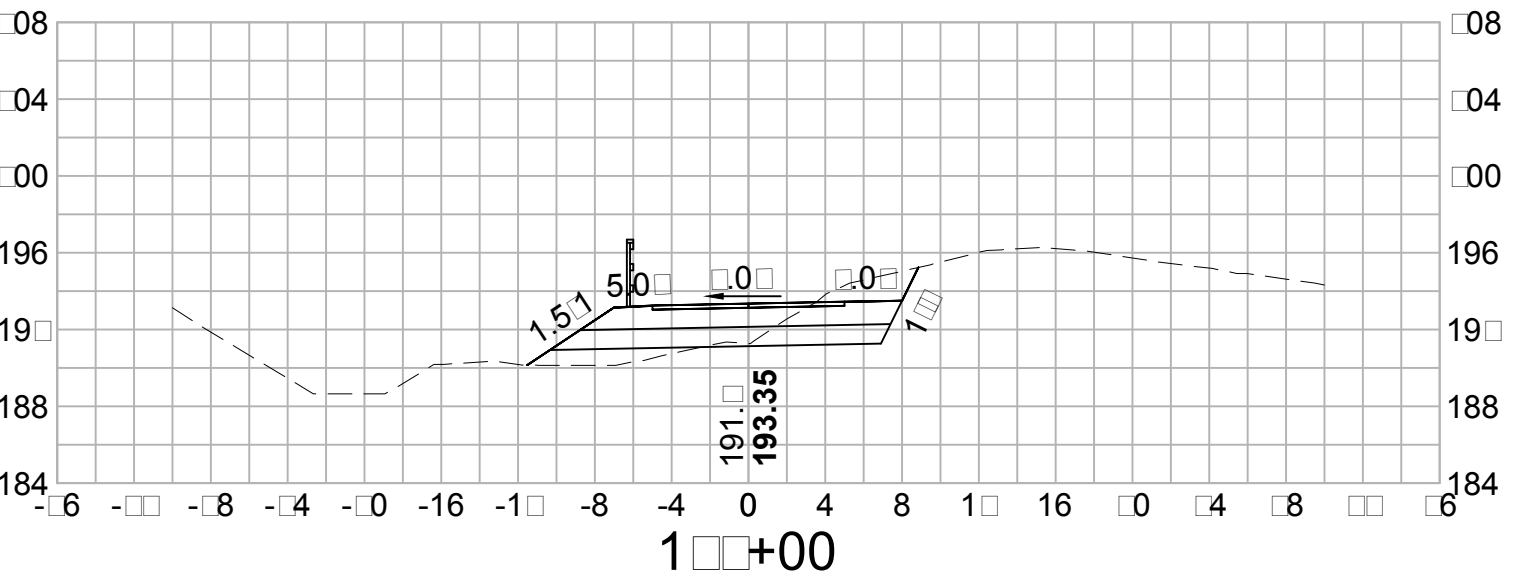
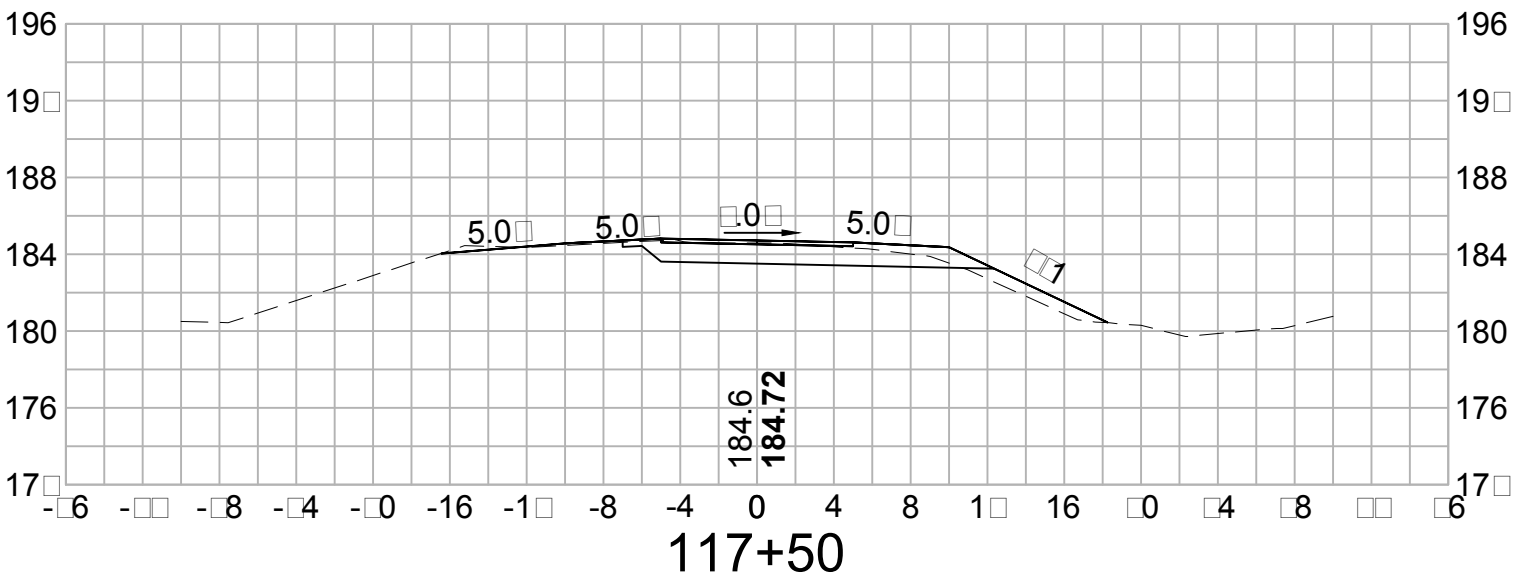
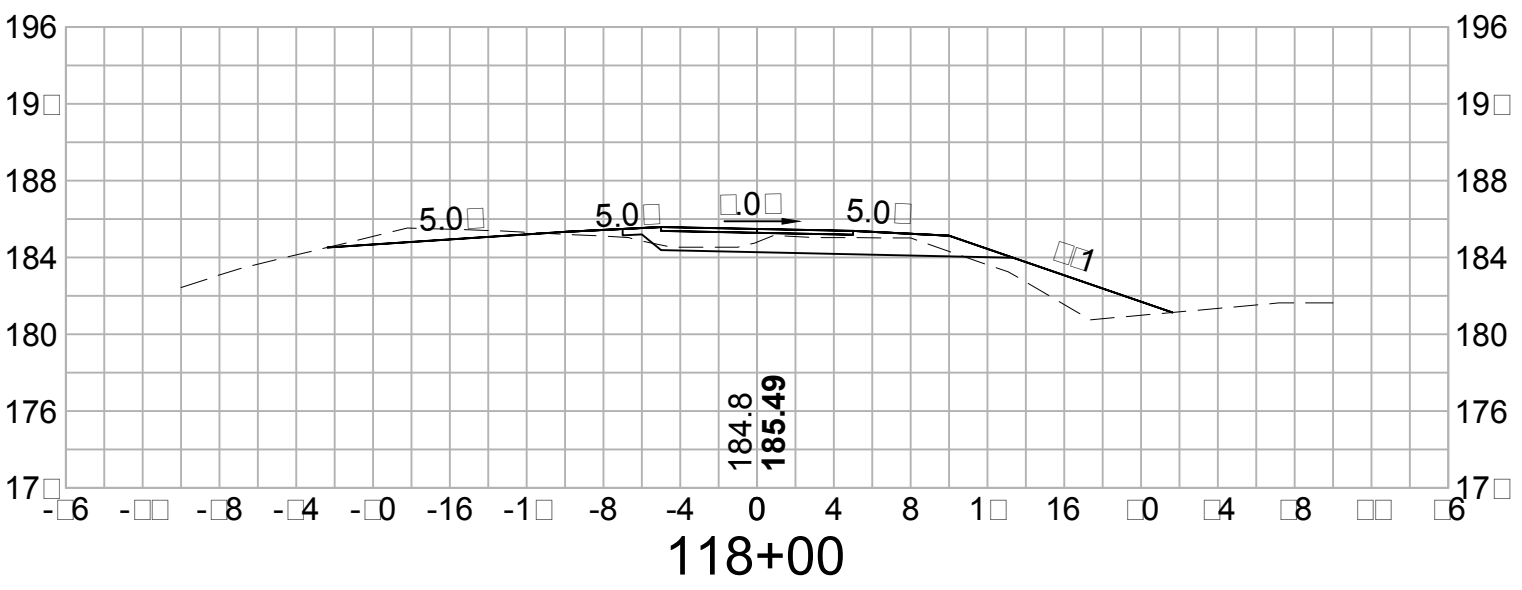
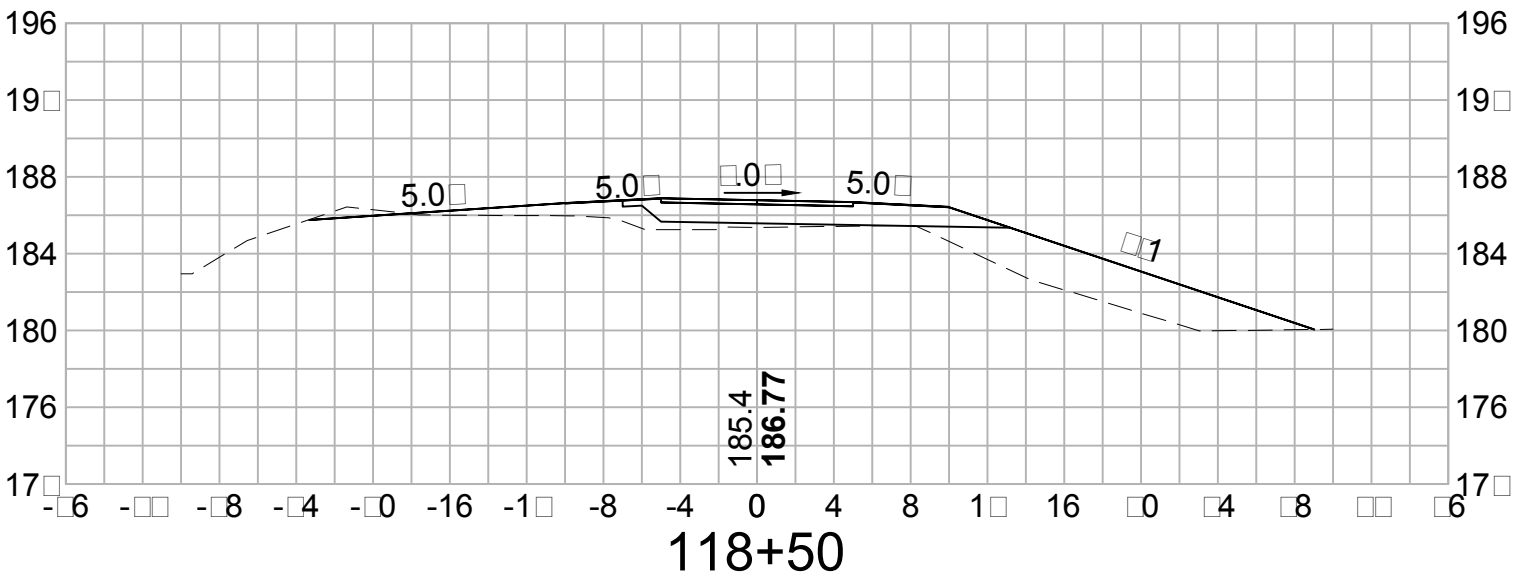
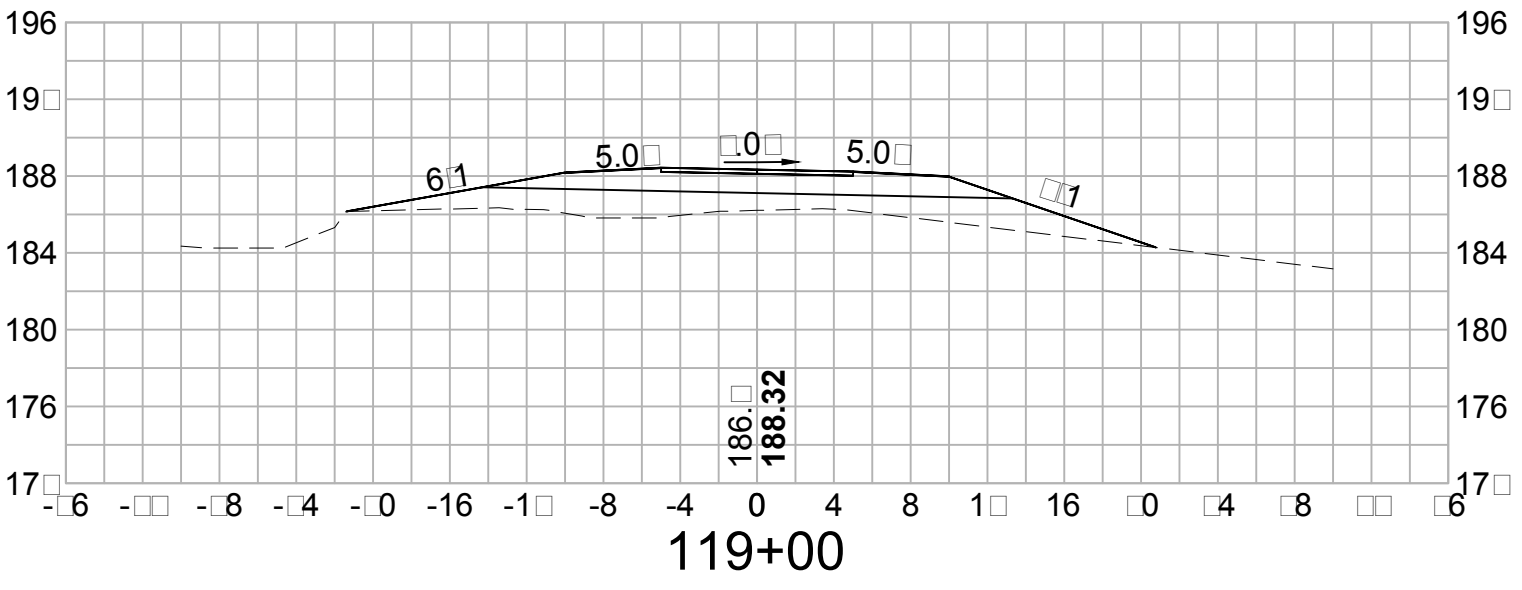
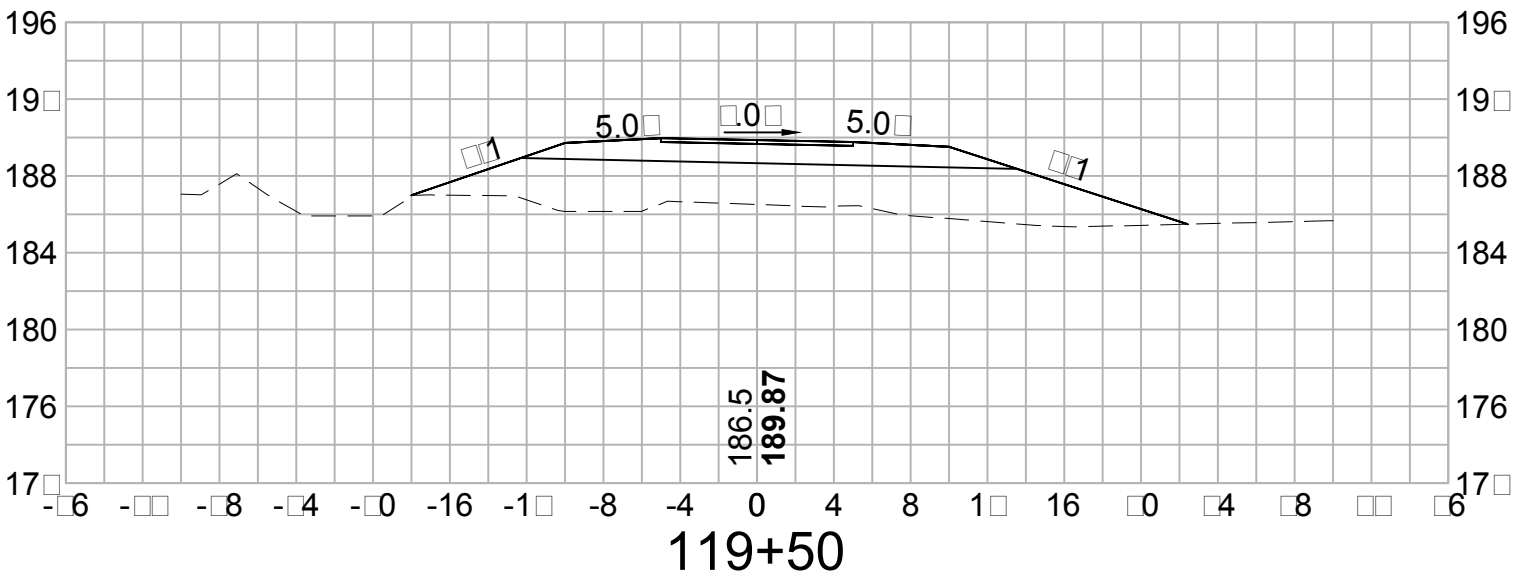
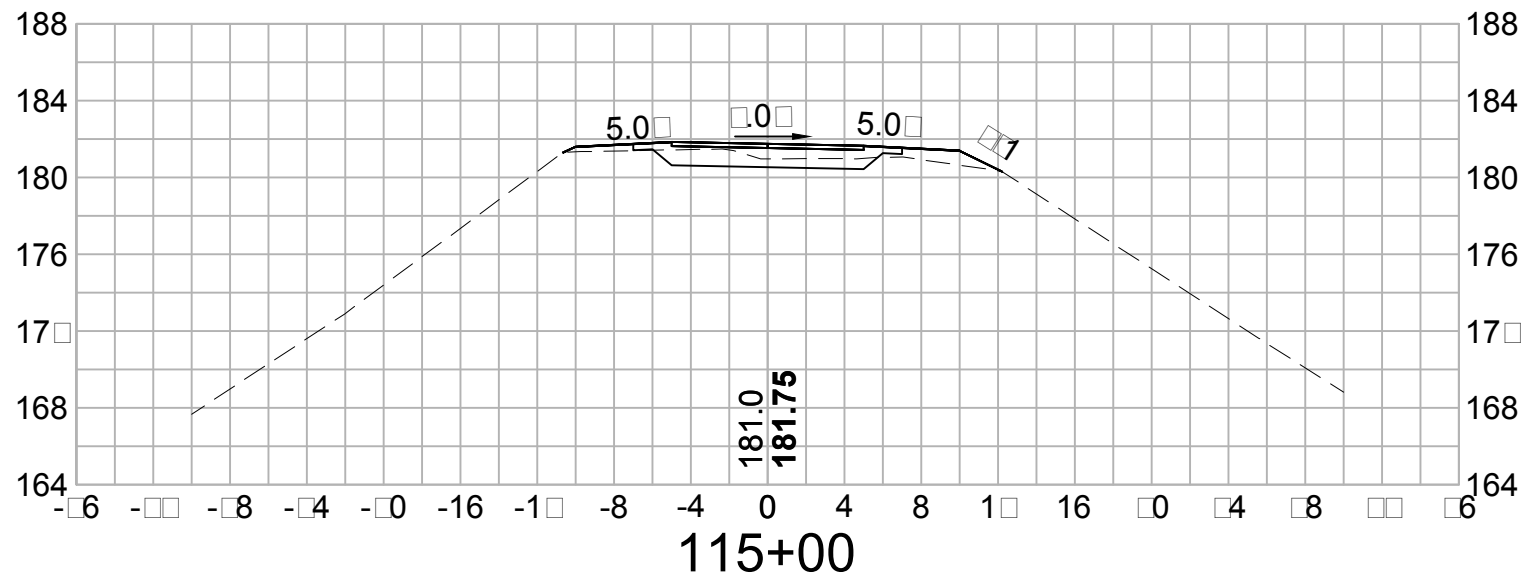
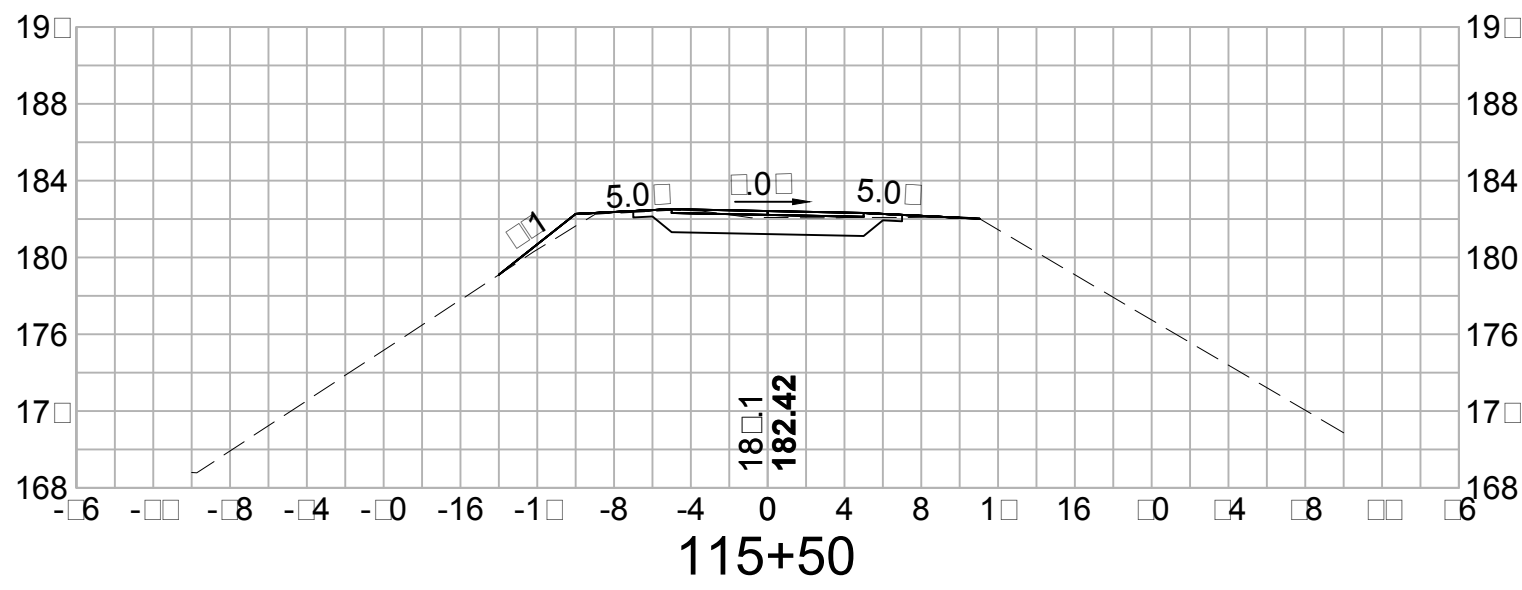
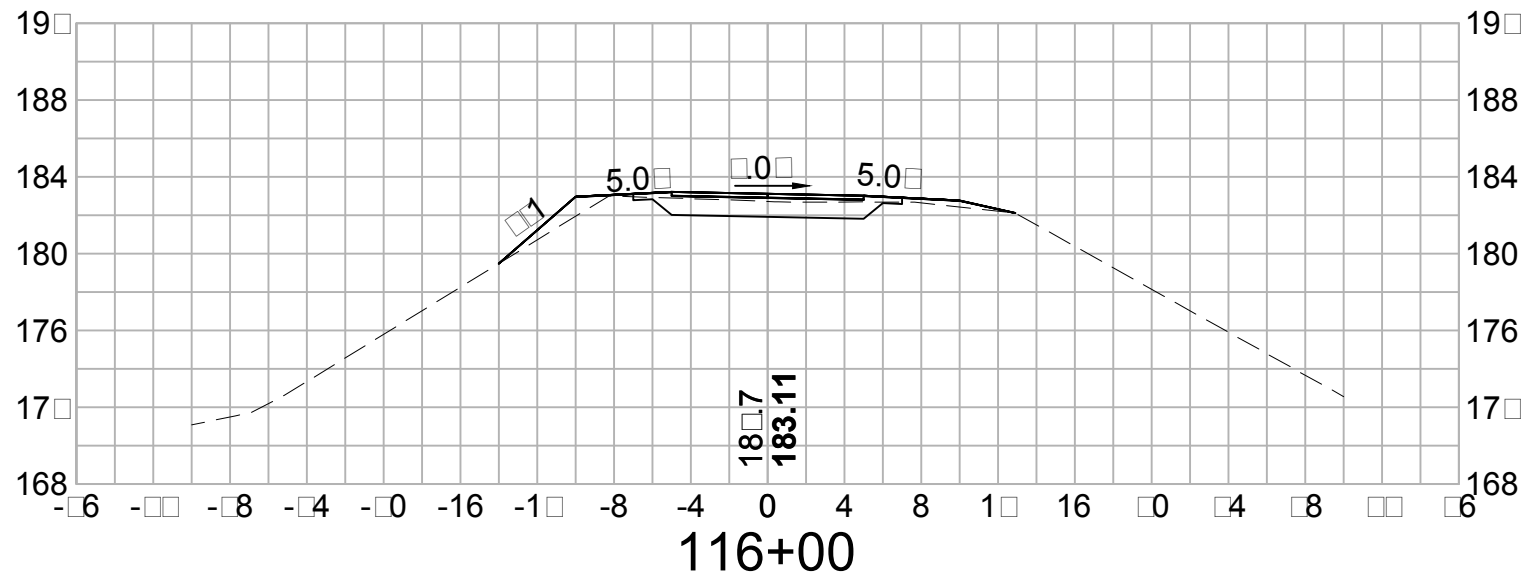
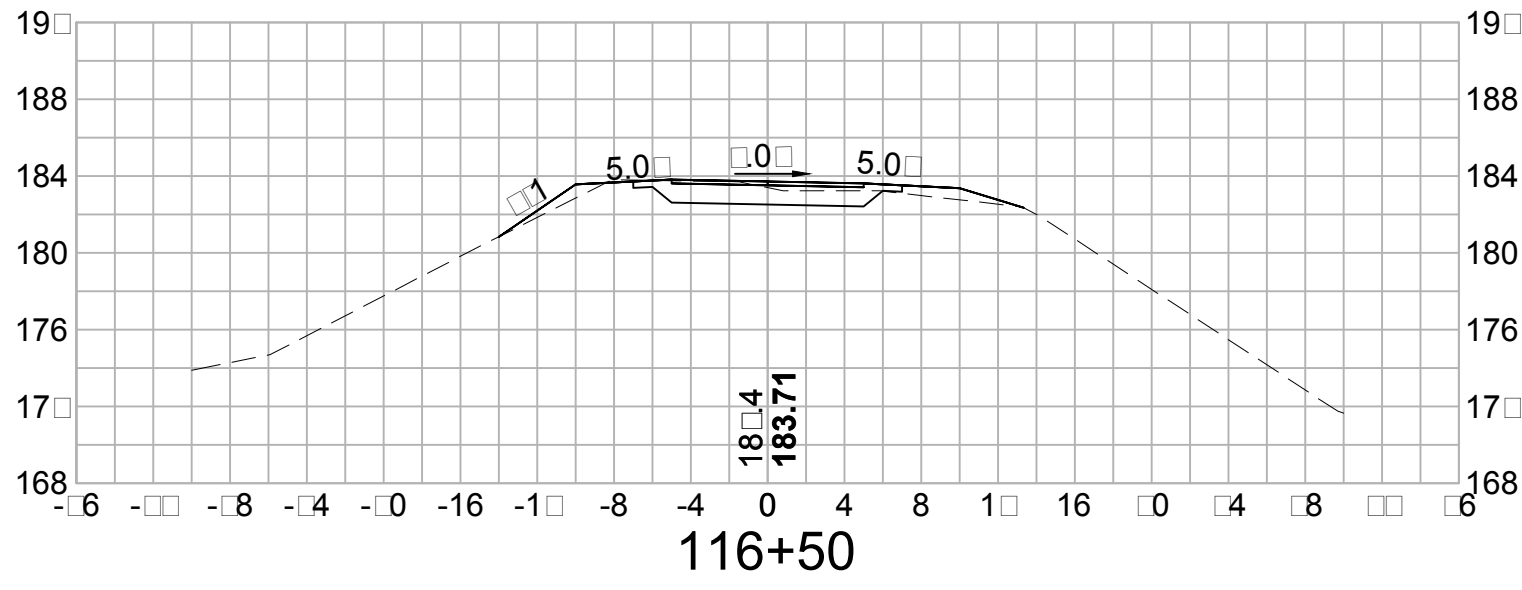
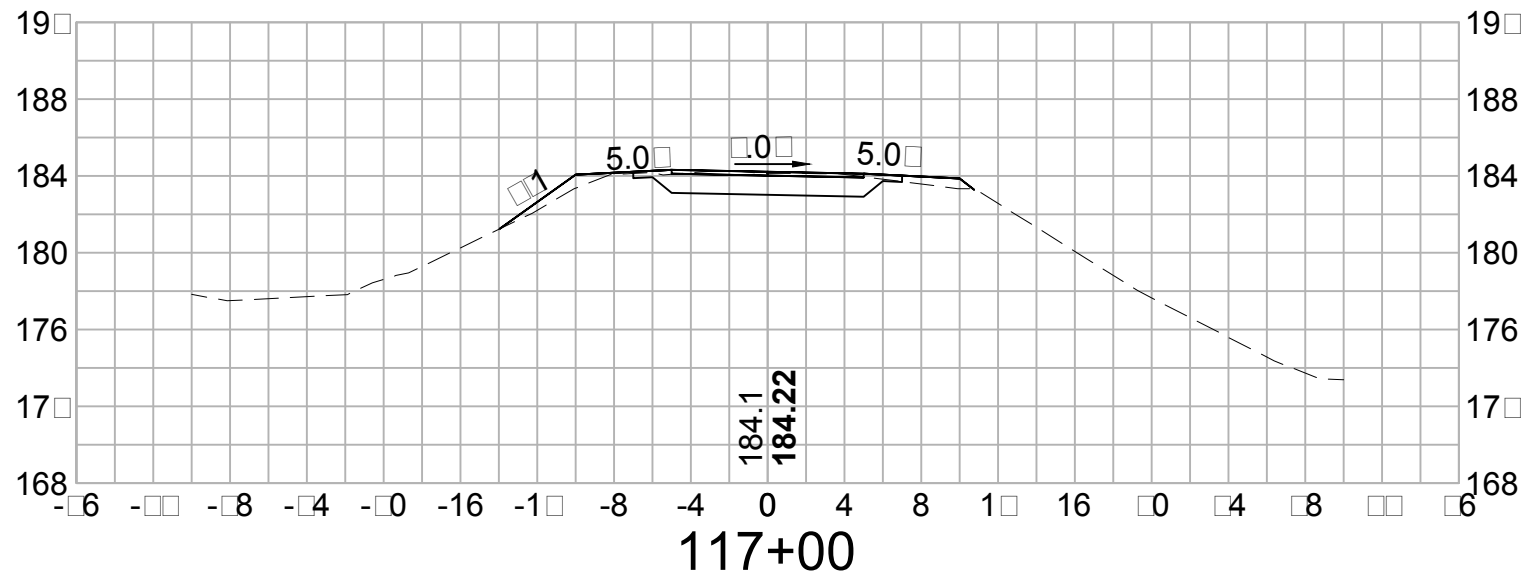
SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN	DATE	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



 <i>Vanasse Hangen Brustlin, Inc.</i>		TOWN OF SALEM, NEW HAMPSHIRE				
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DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
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REVISIONS AFTER PROPOSAL					DESCRIPTION
NUMBER	DATE	STATION	STATION		

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
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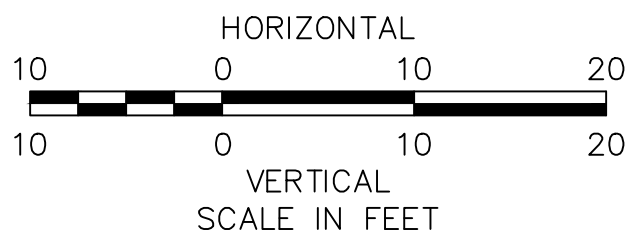
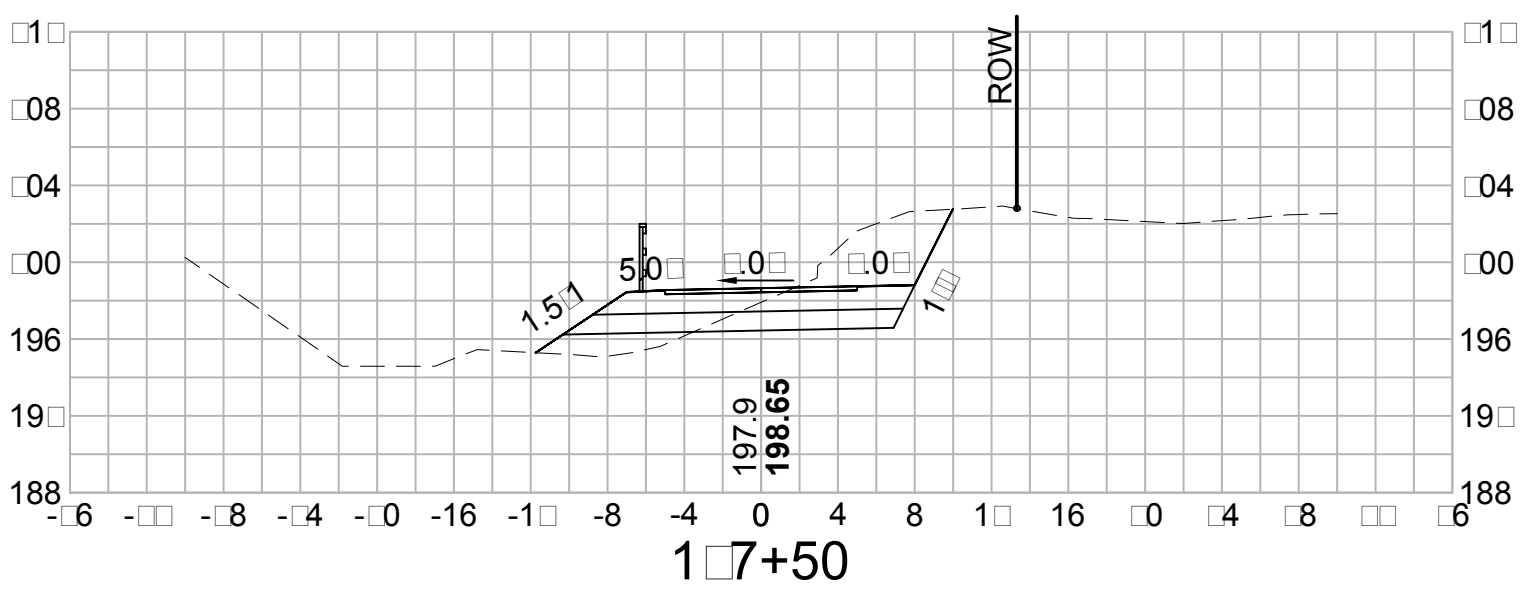
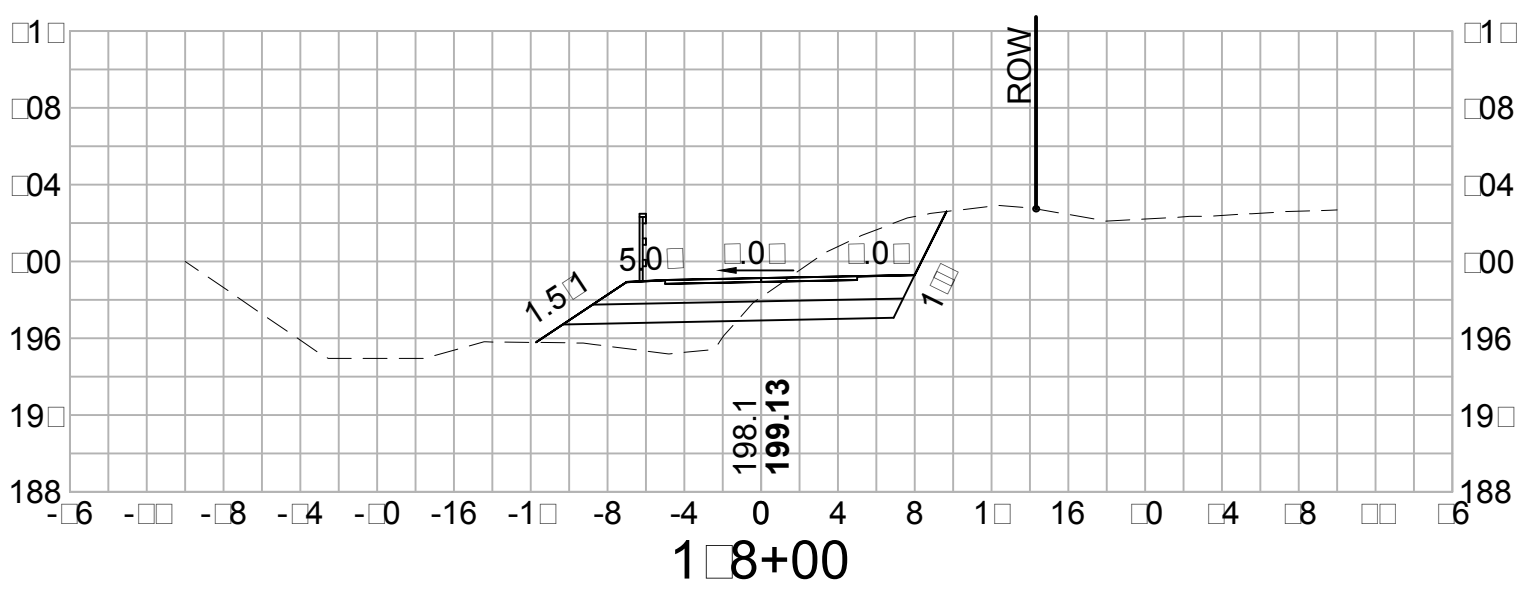
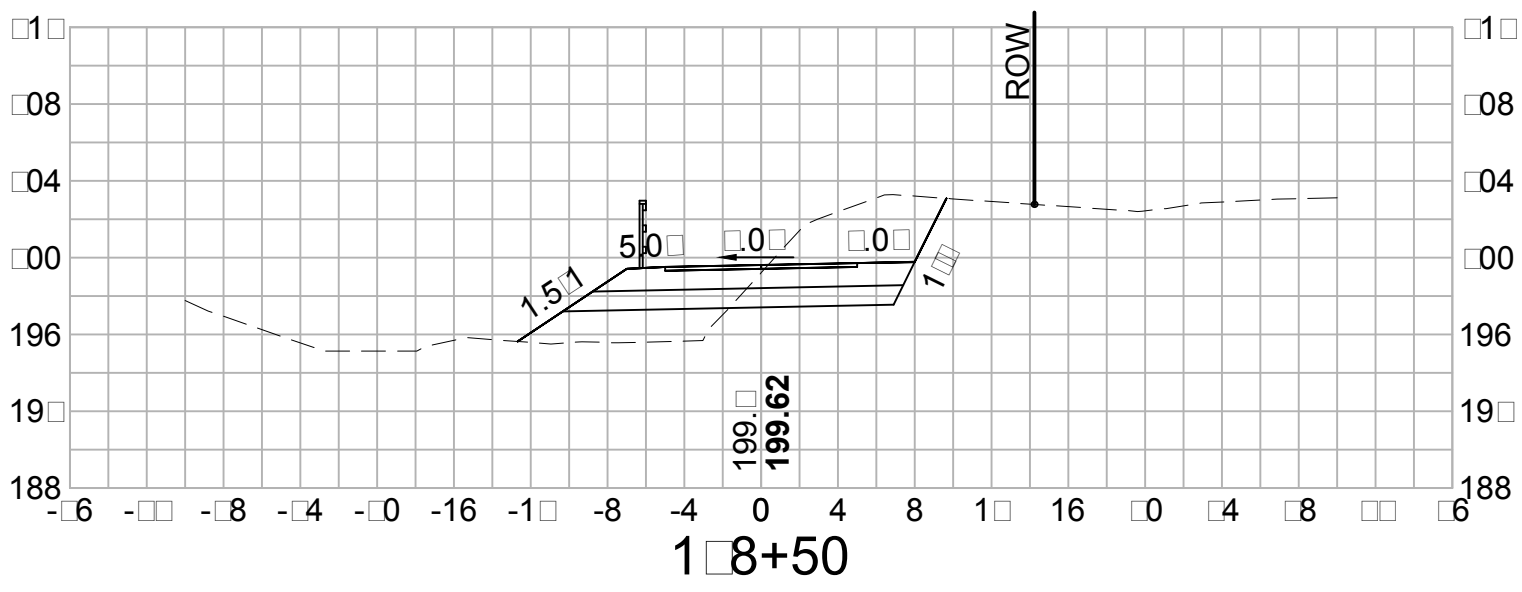
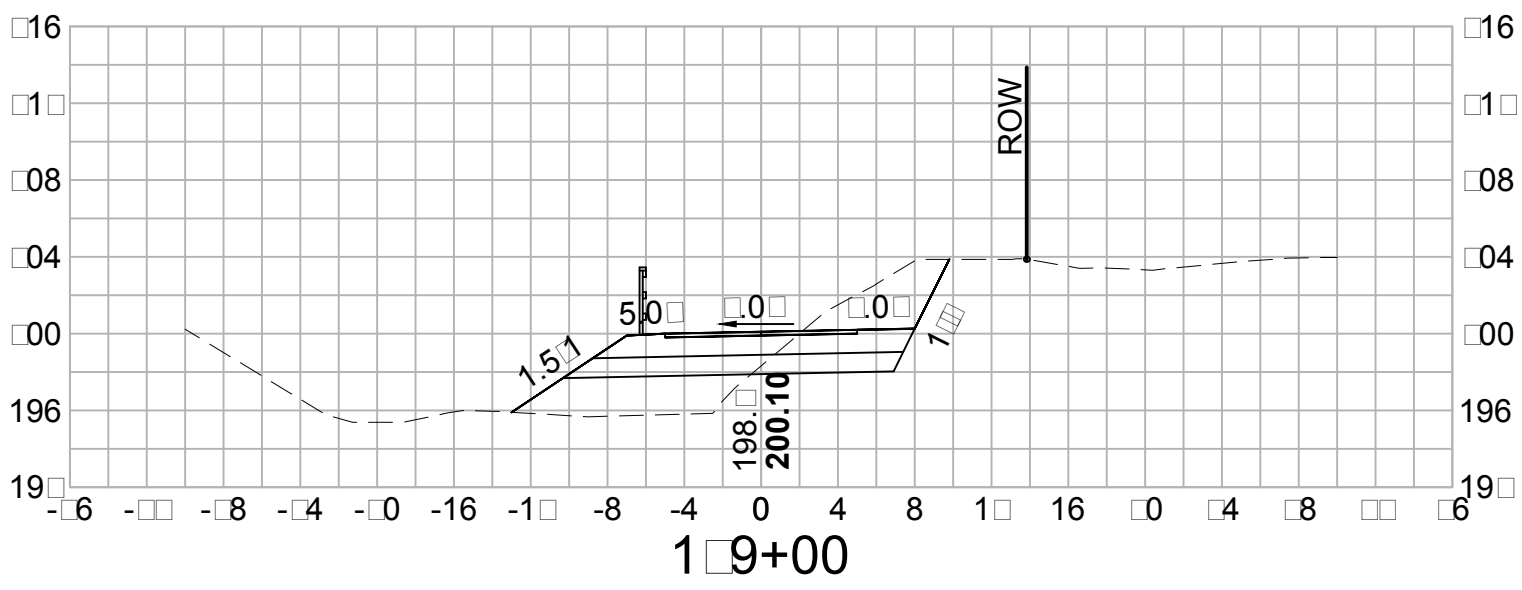
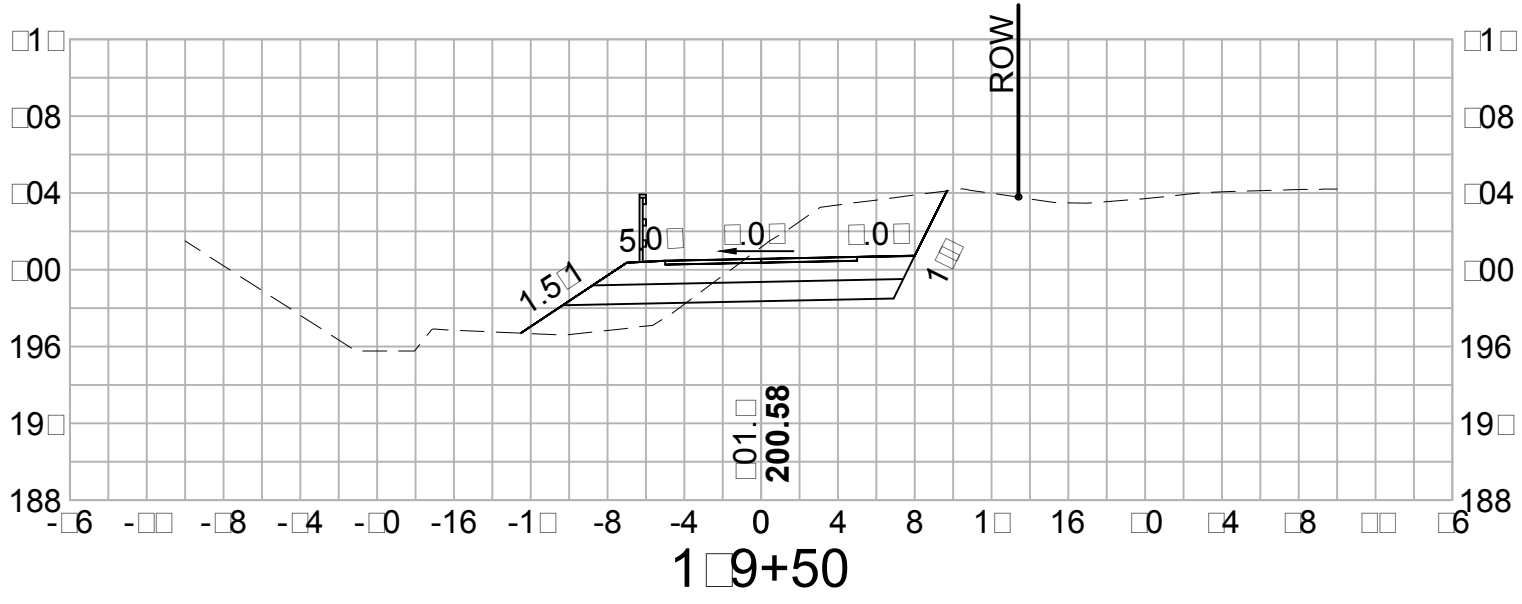
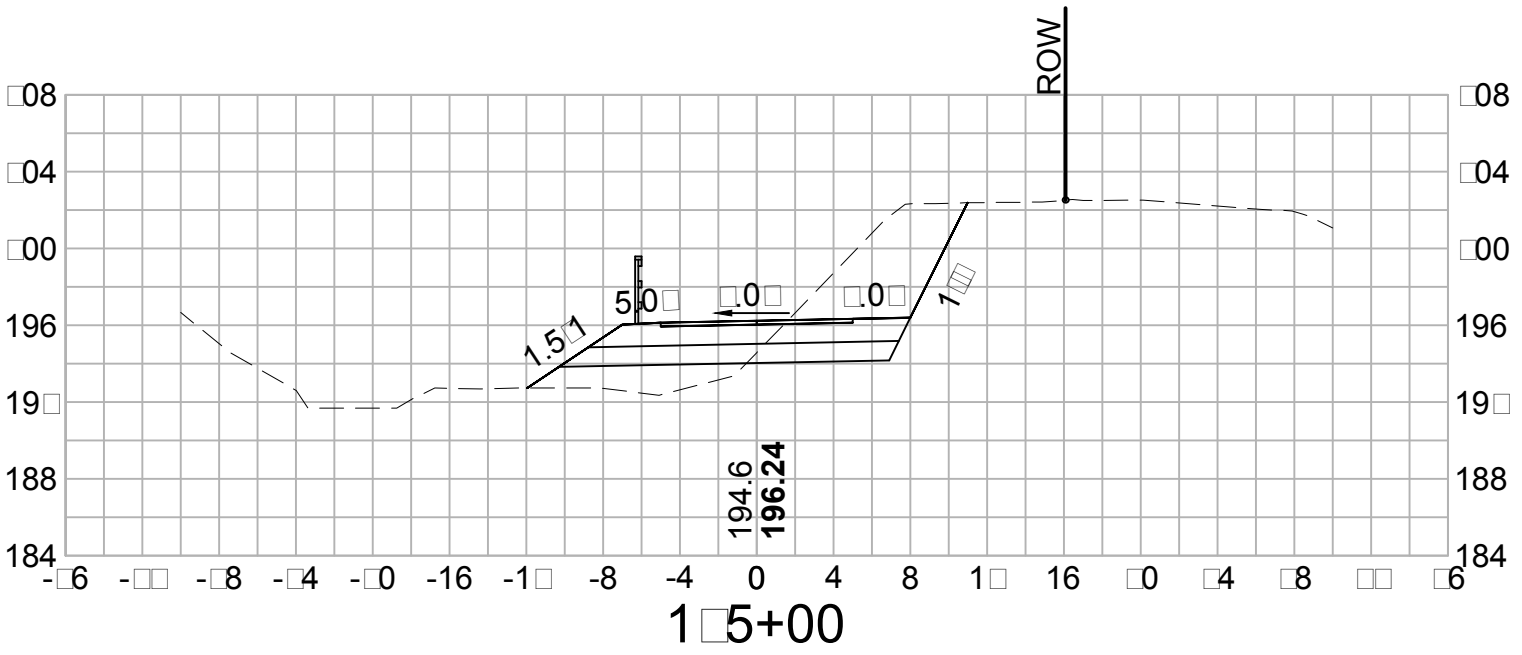
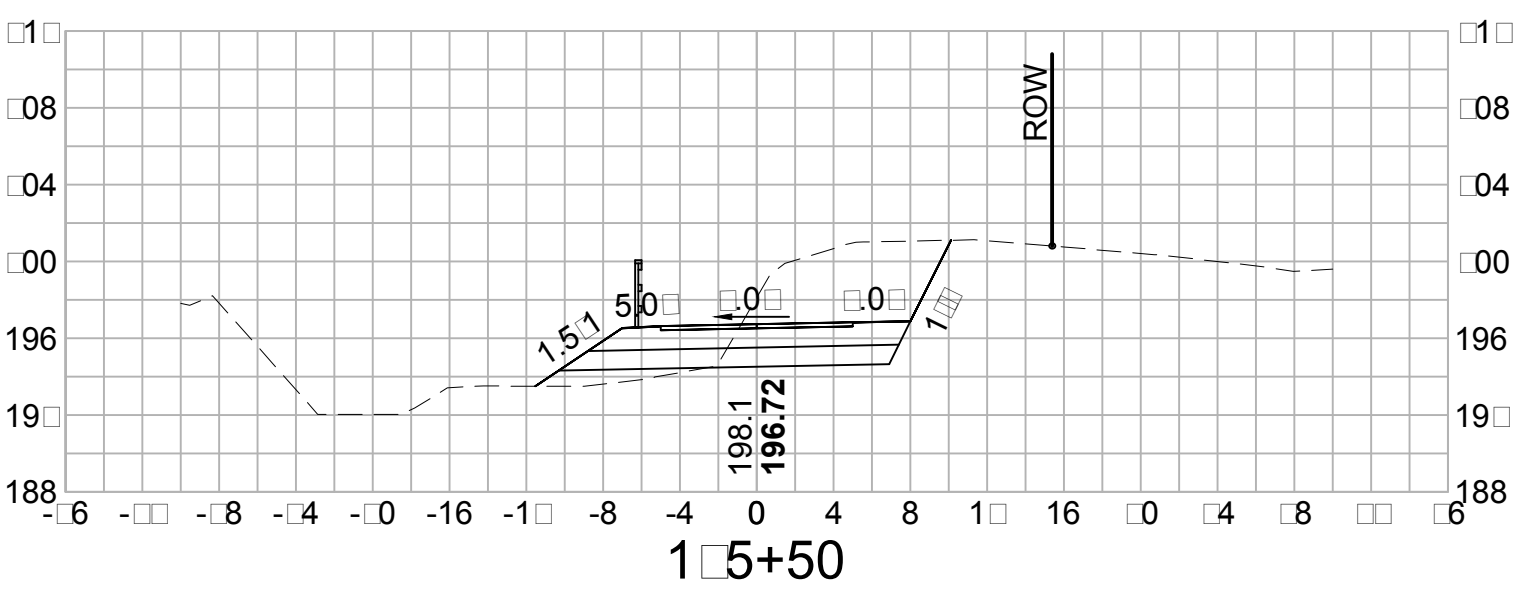
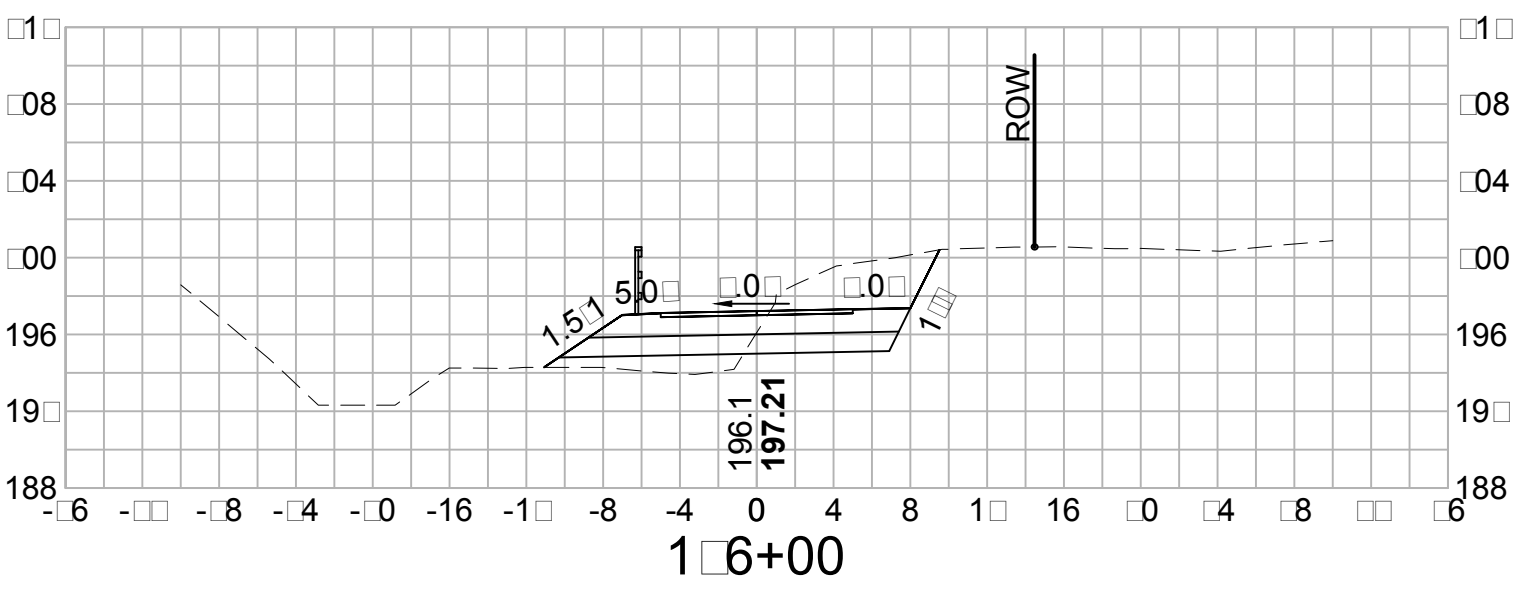
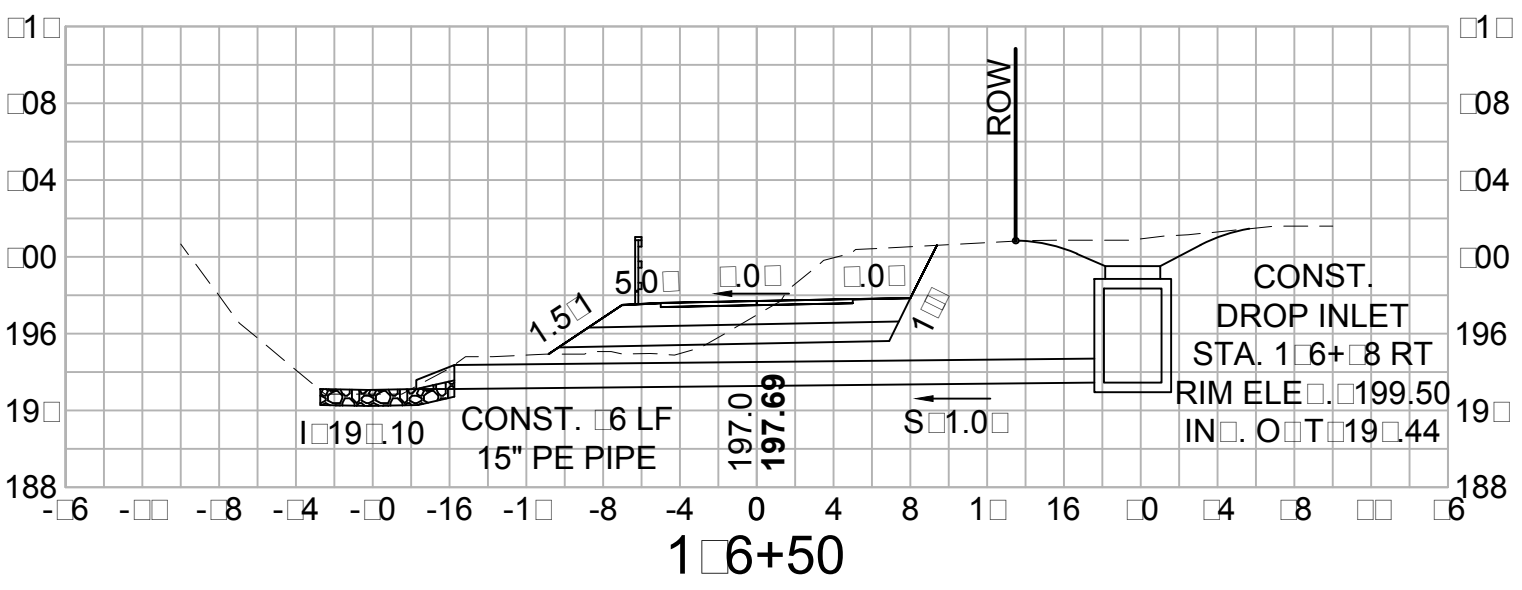
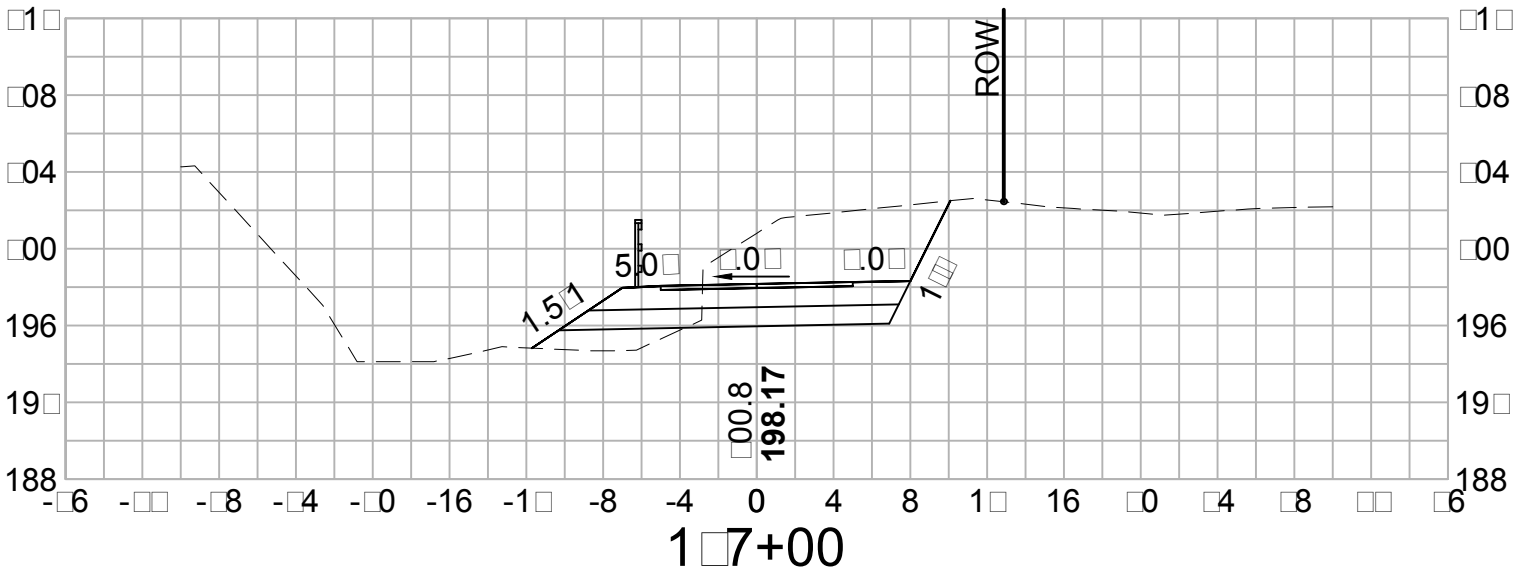
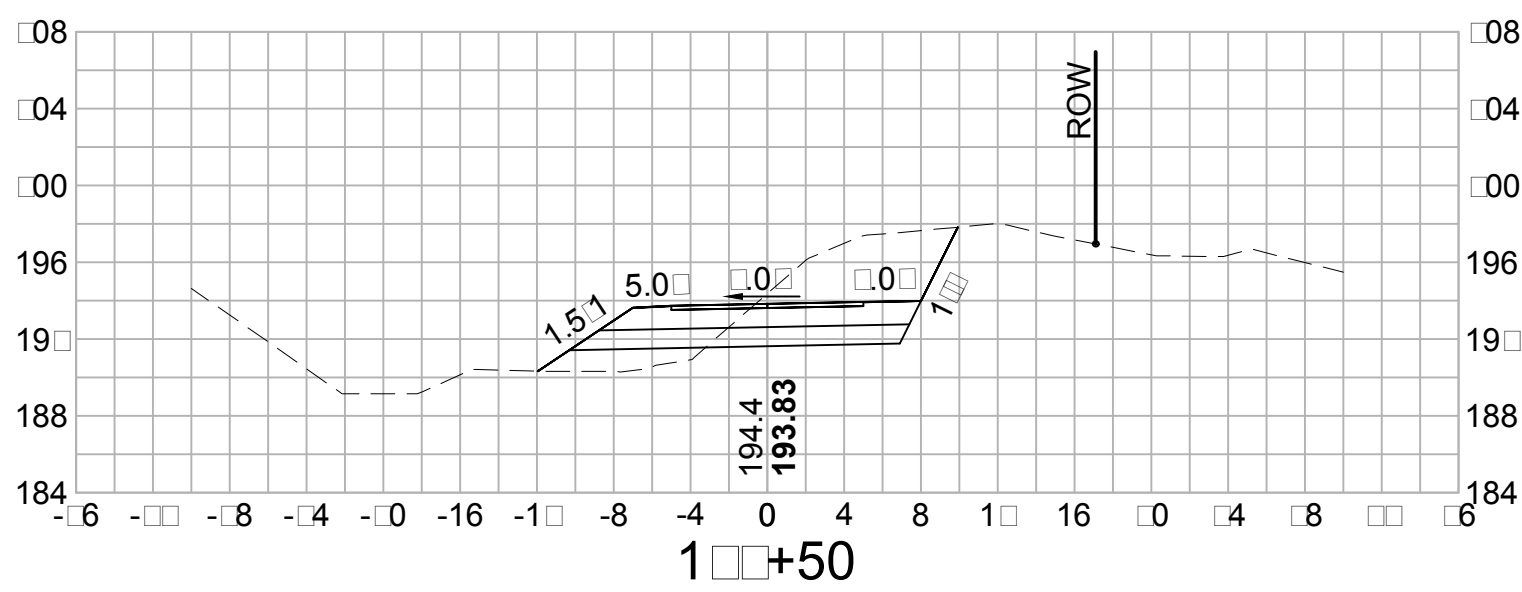
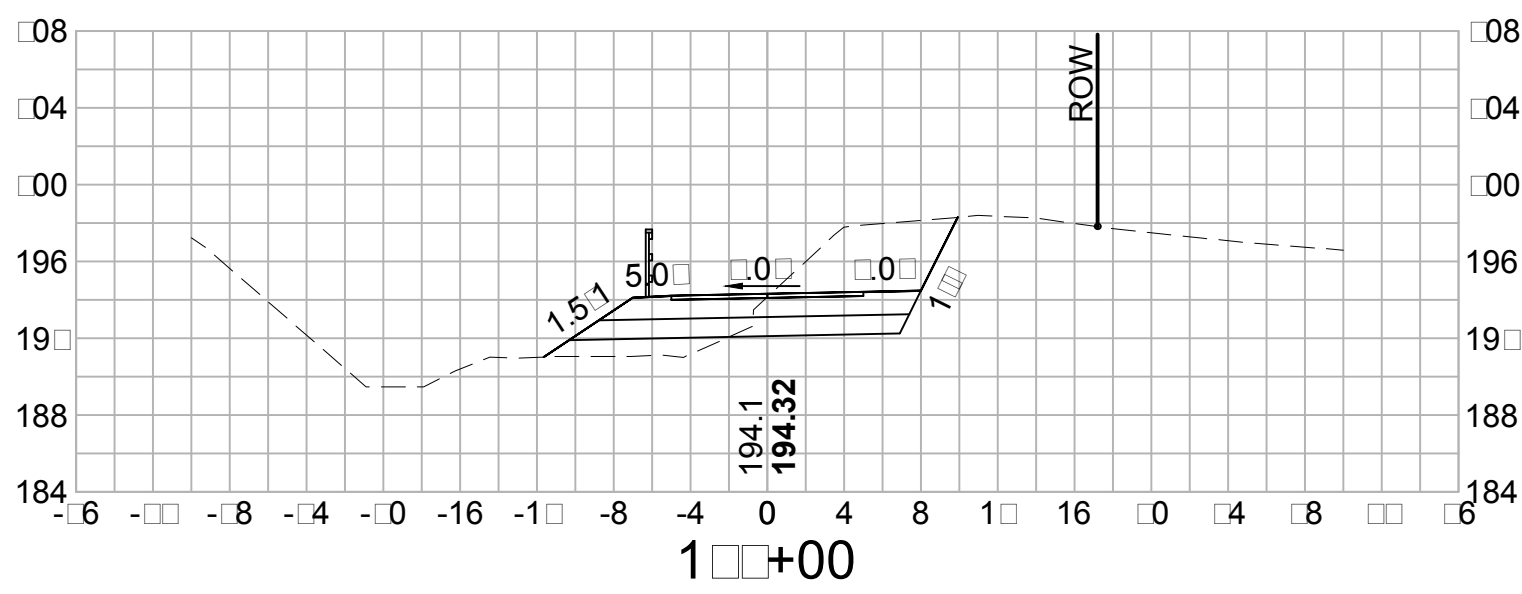
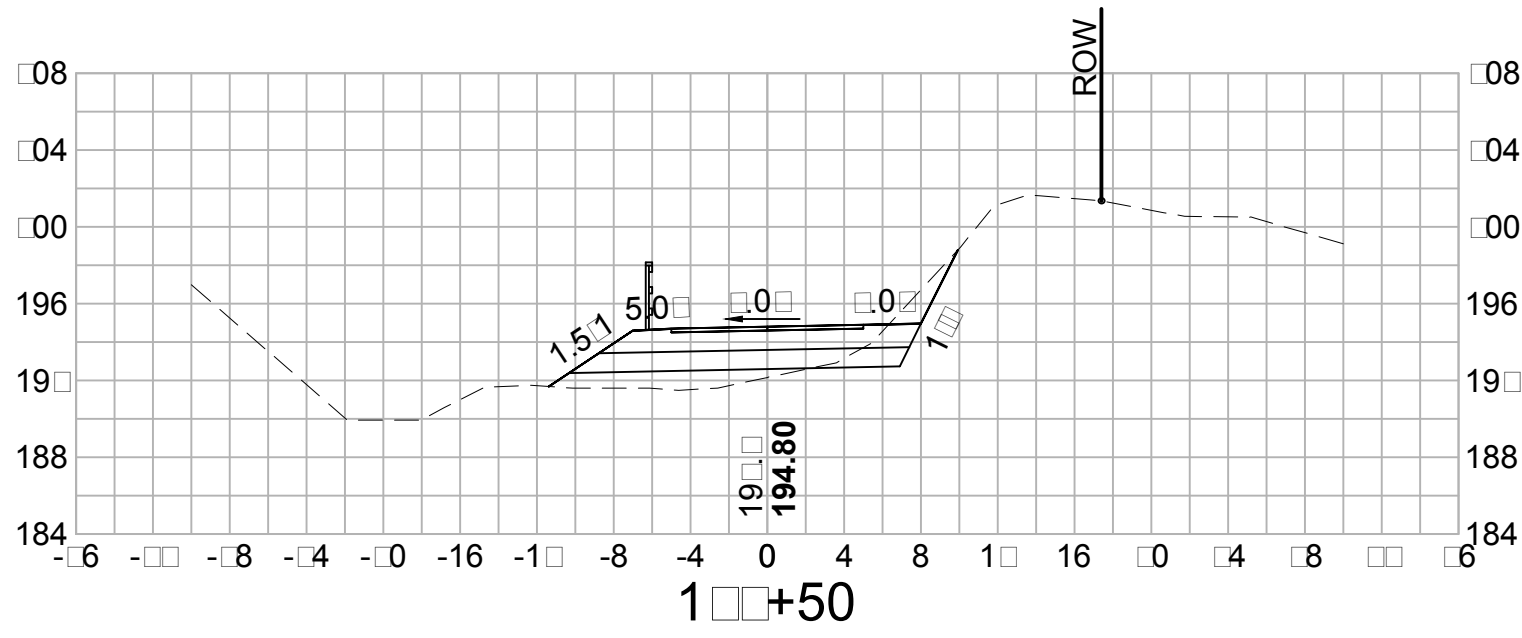
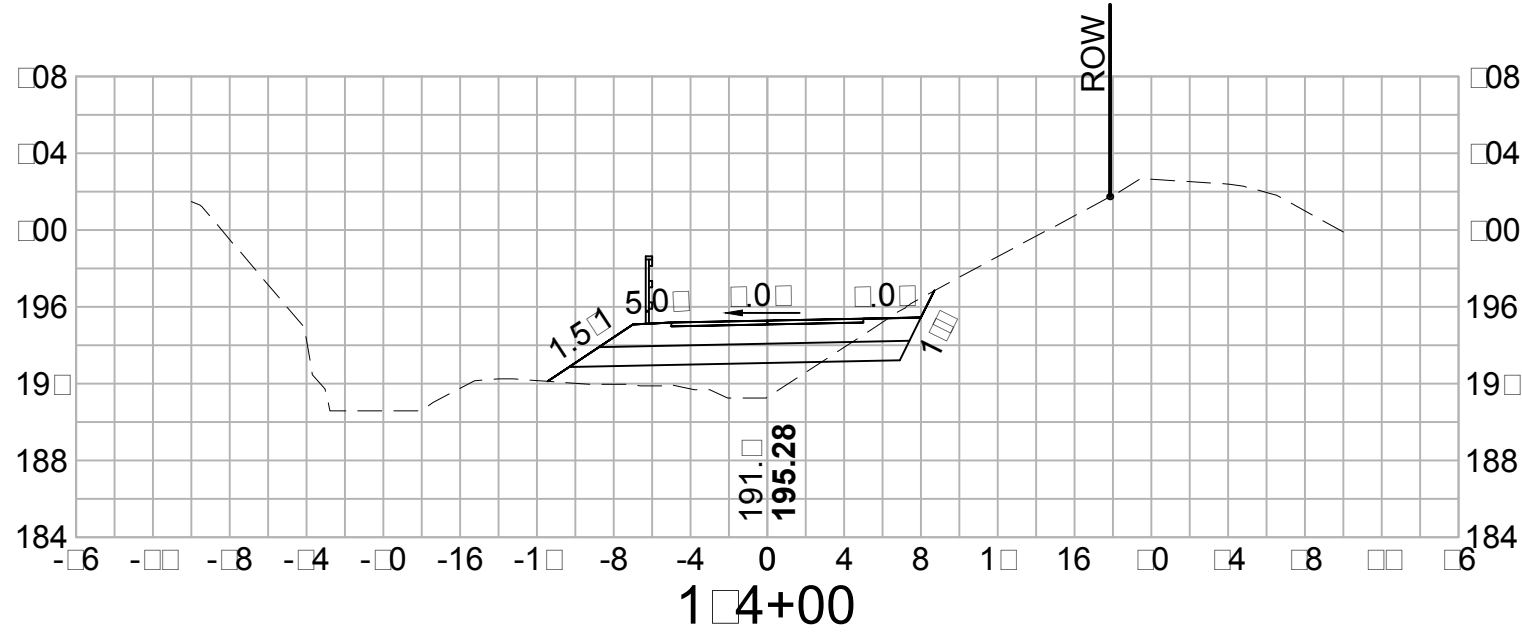
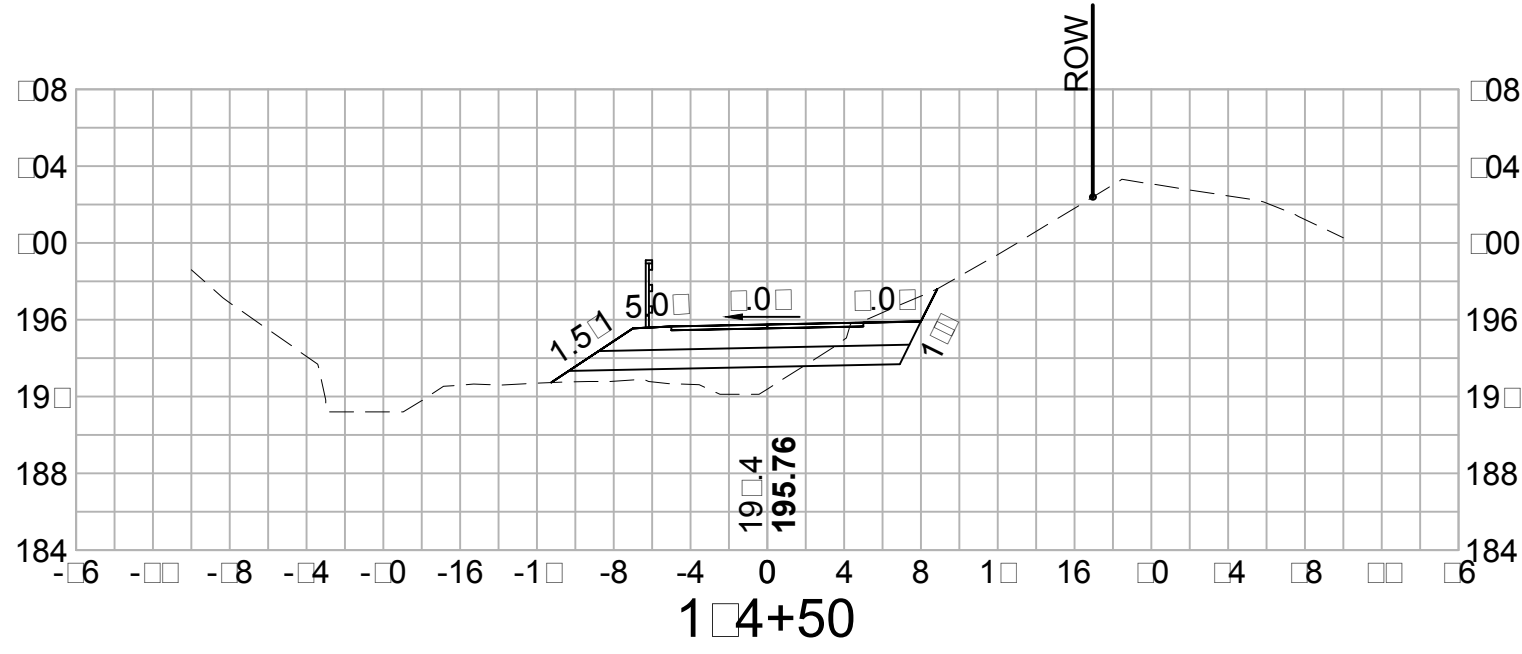


VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
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SALEM-WINDHAM PED/BIKE TRAIL					
CROSS SECTIONS					

SDR PROCESSED	REVISIONS AFTER PROPOSAL			
	DATE	NUMBER	DATE	STATION
	DATE			
	DATE			
NEW DESIGN				
SHEET CHECKED				
AS BUILT DETAILS	DATE			



VHB Vanasse Hangen Brustlin, Inc.

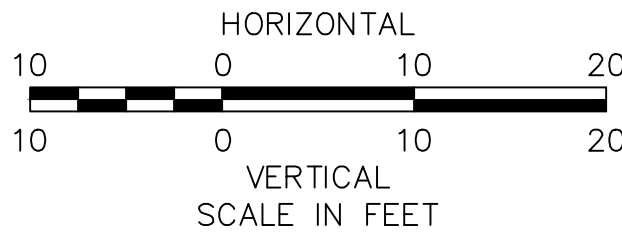
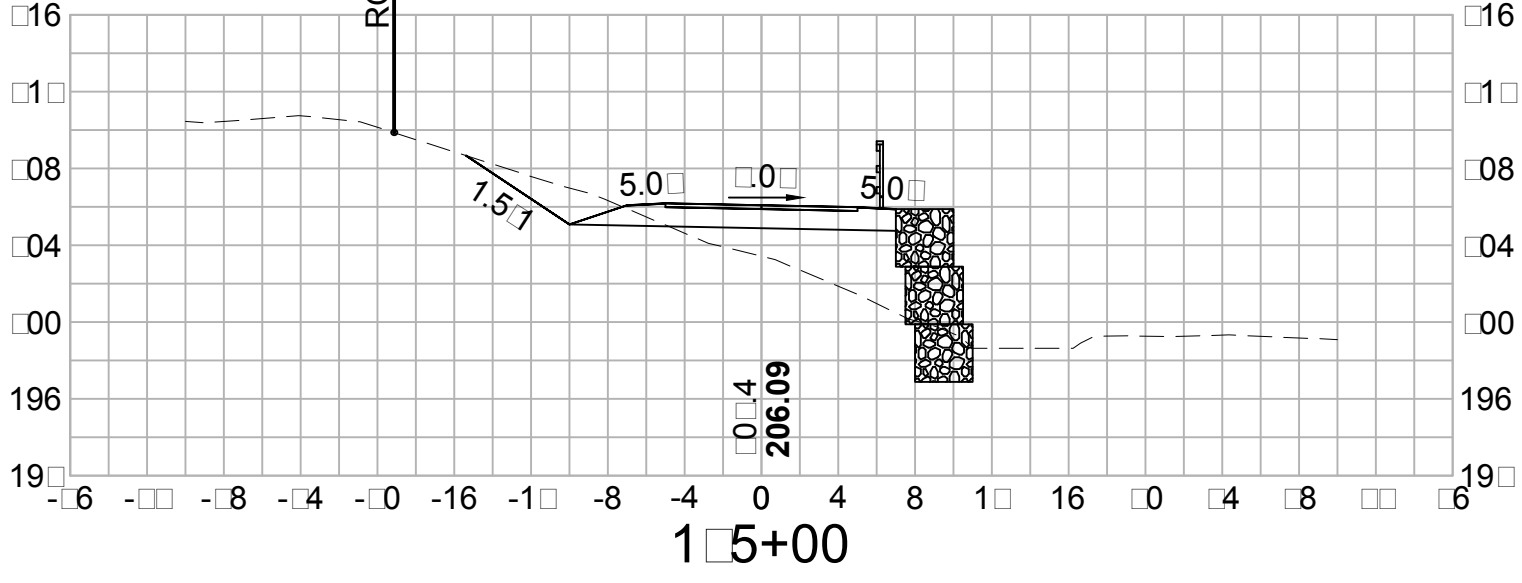
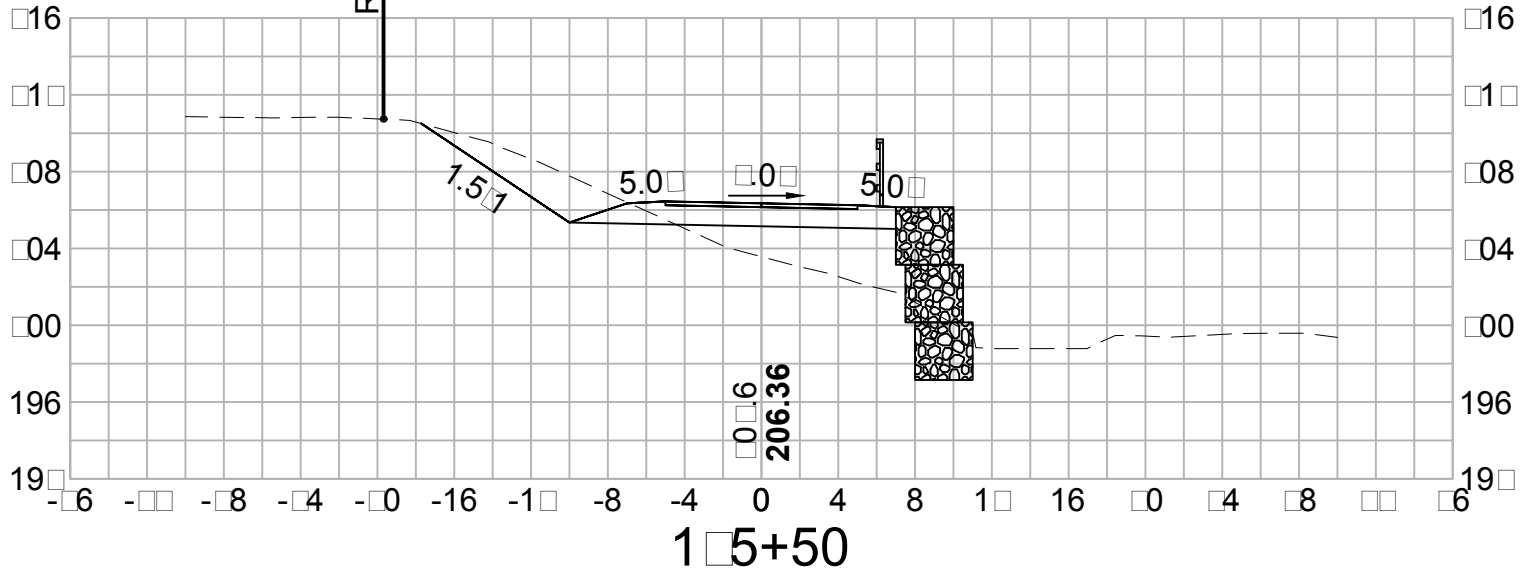
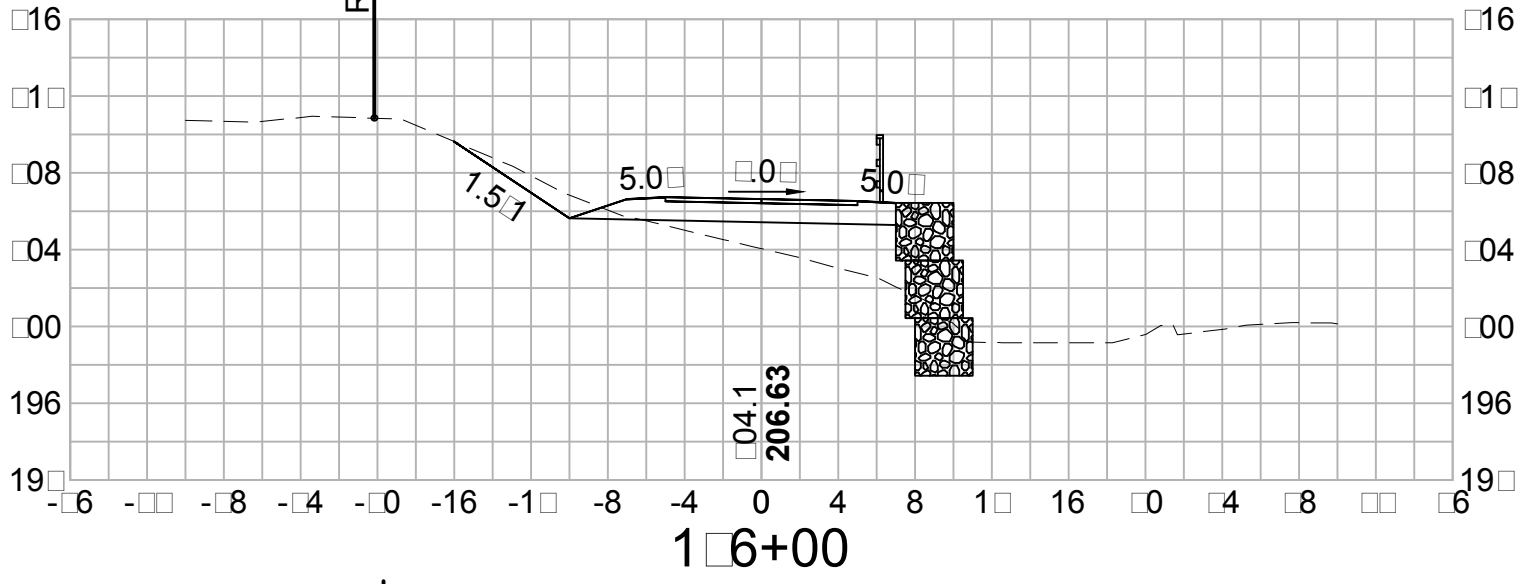
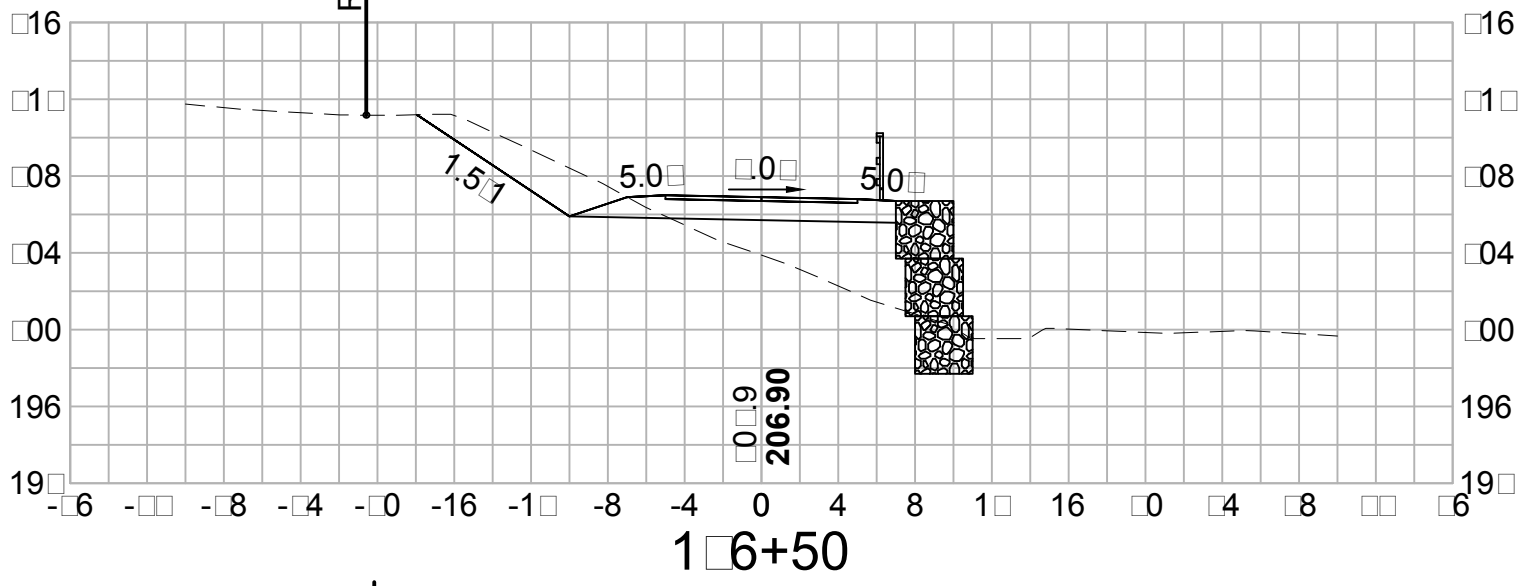
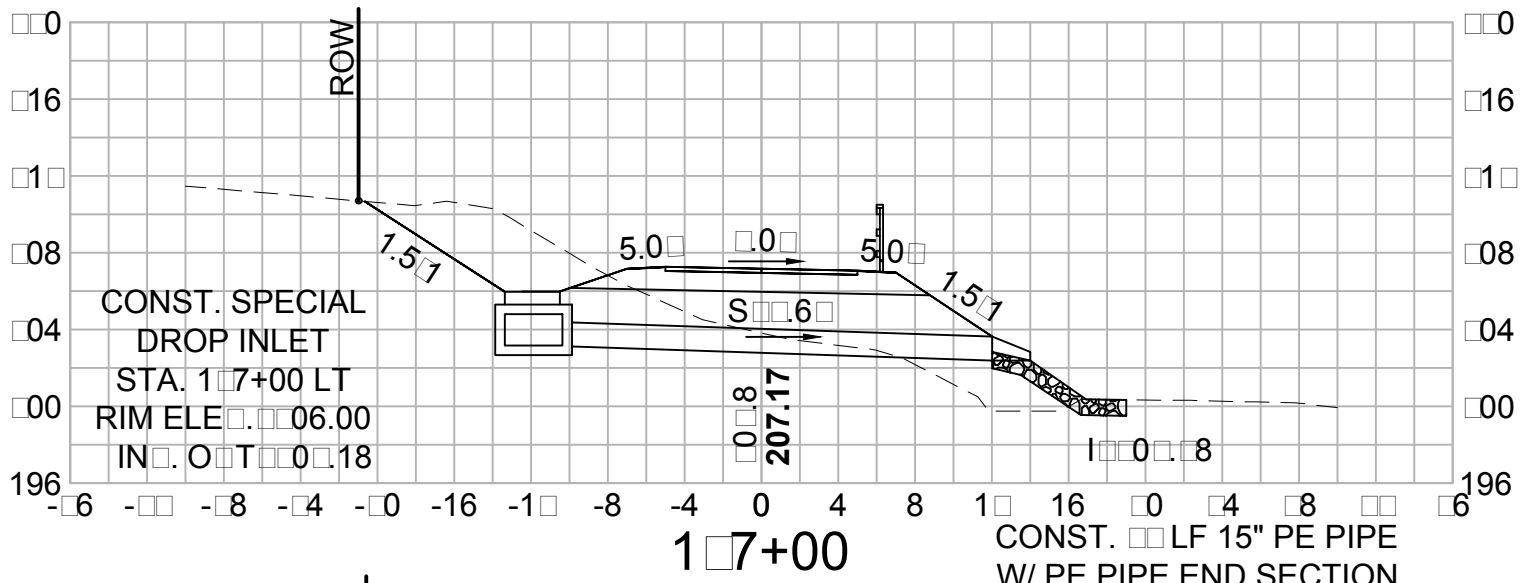
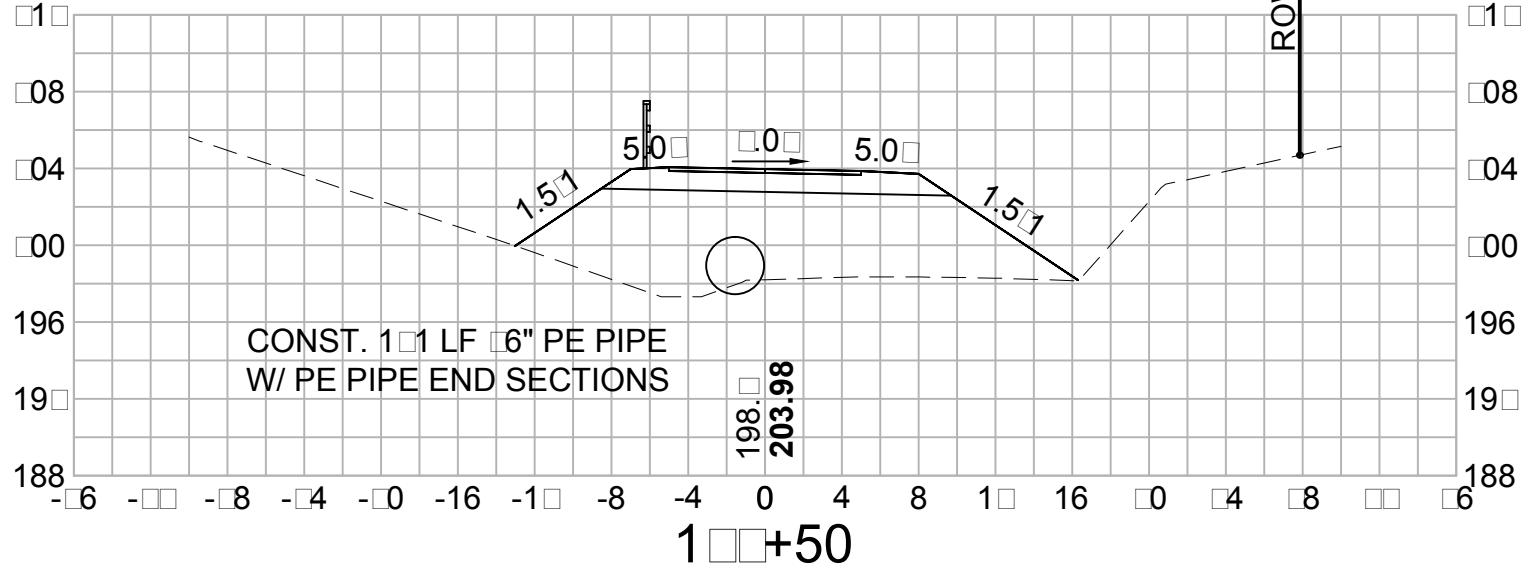
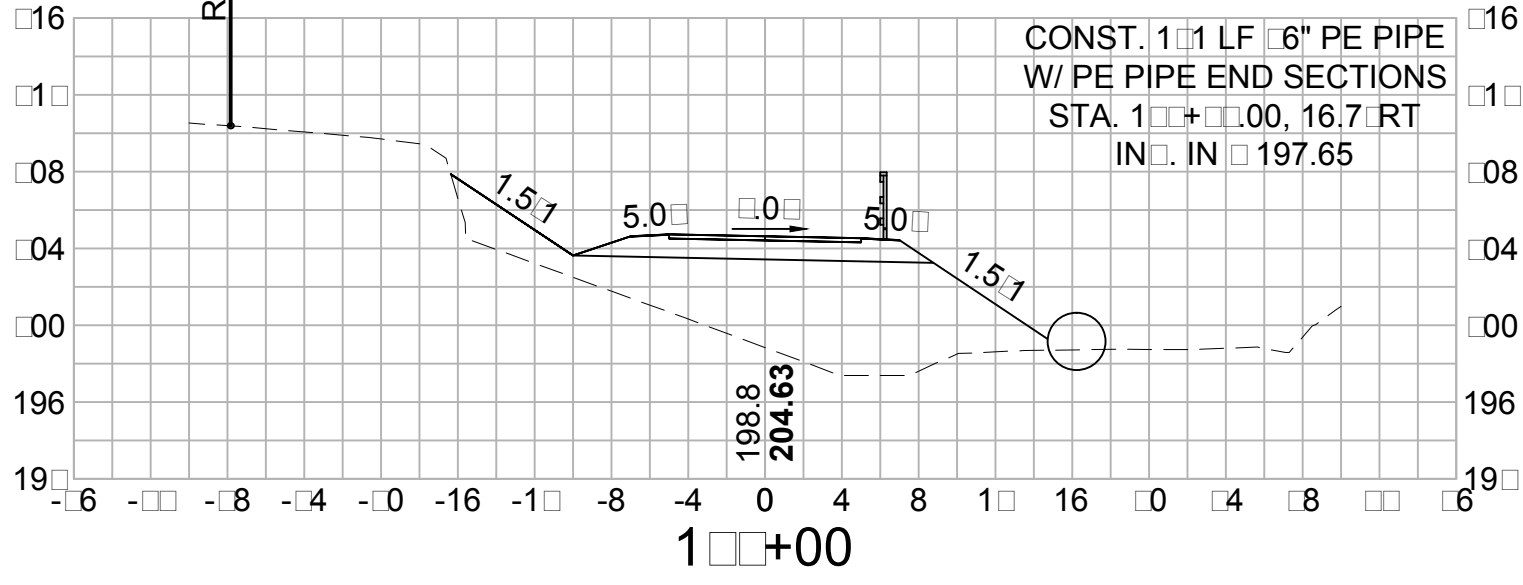
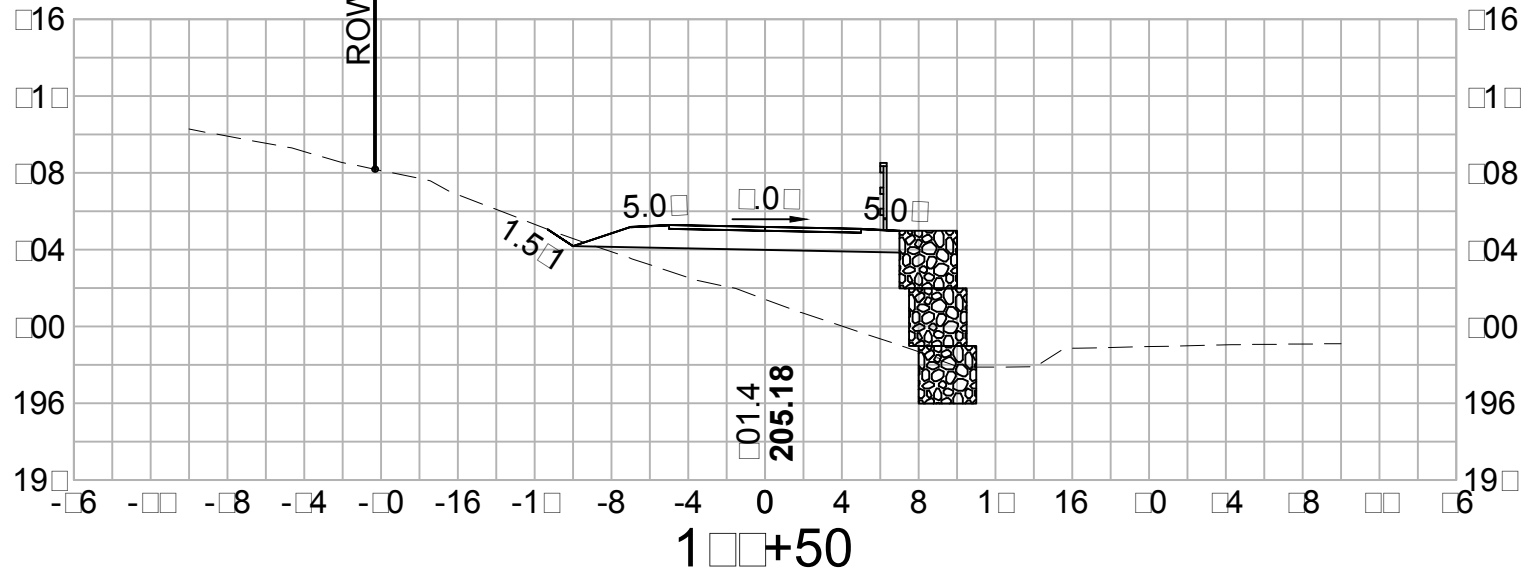
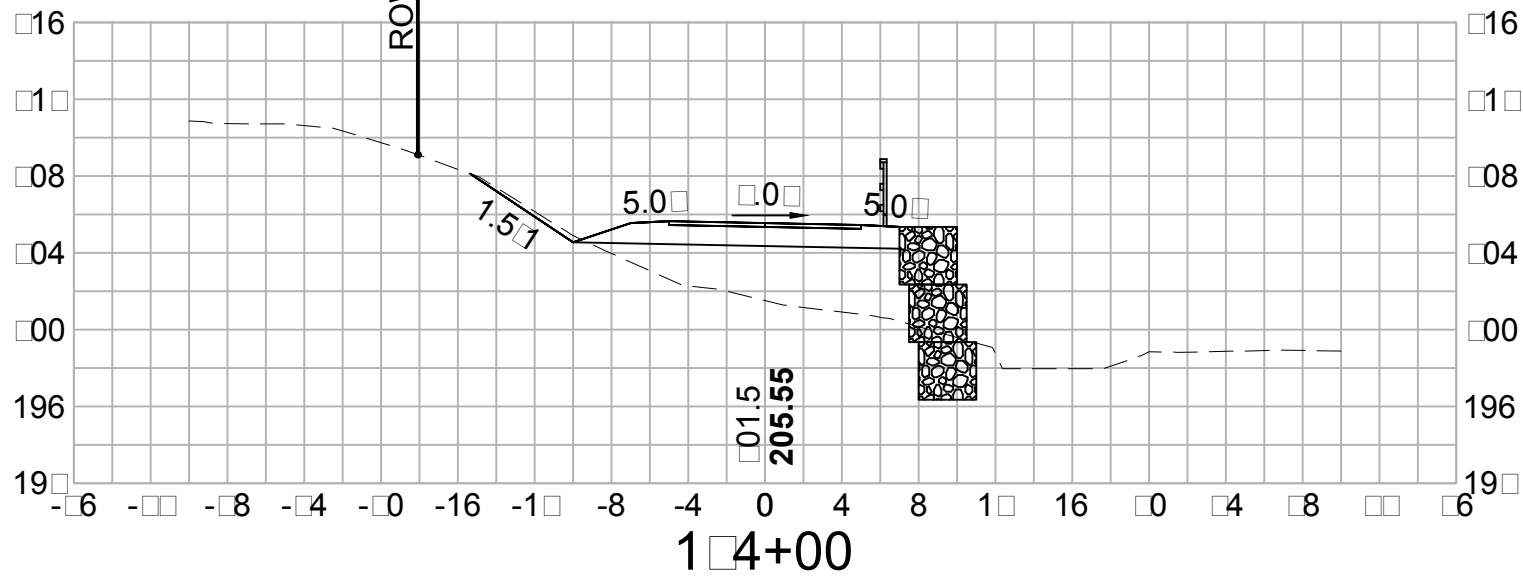
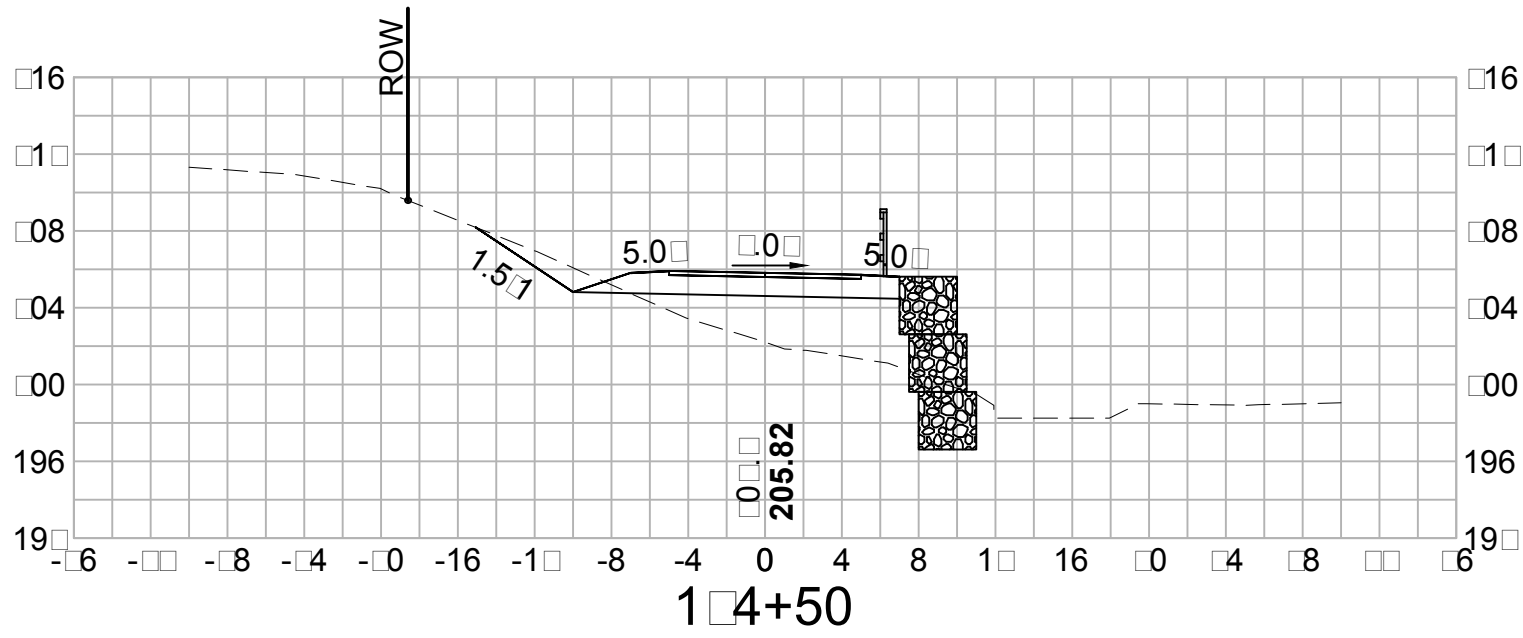
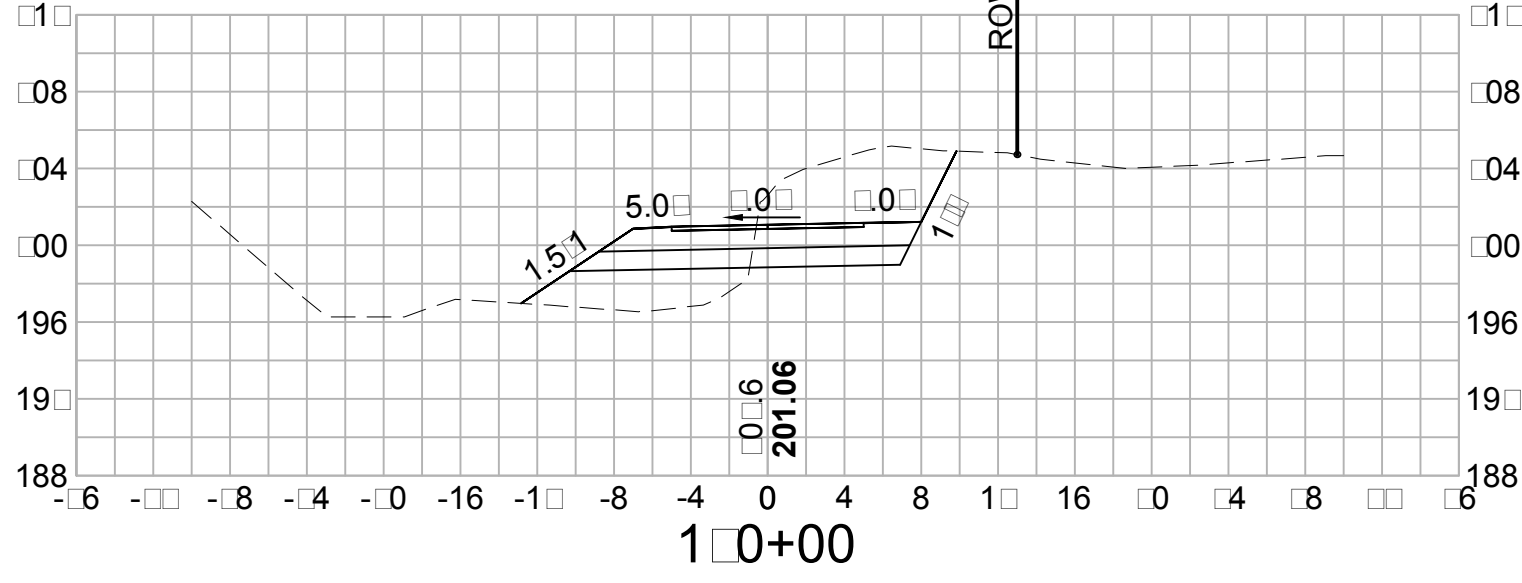
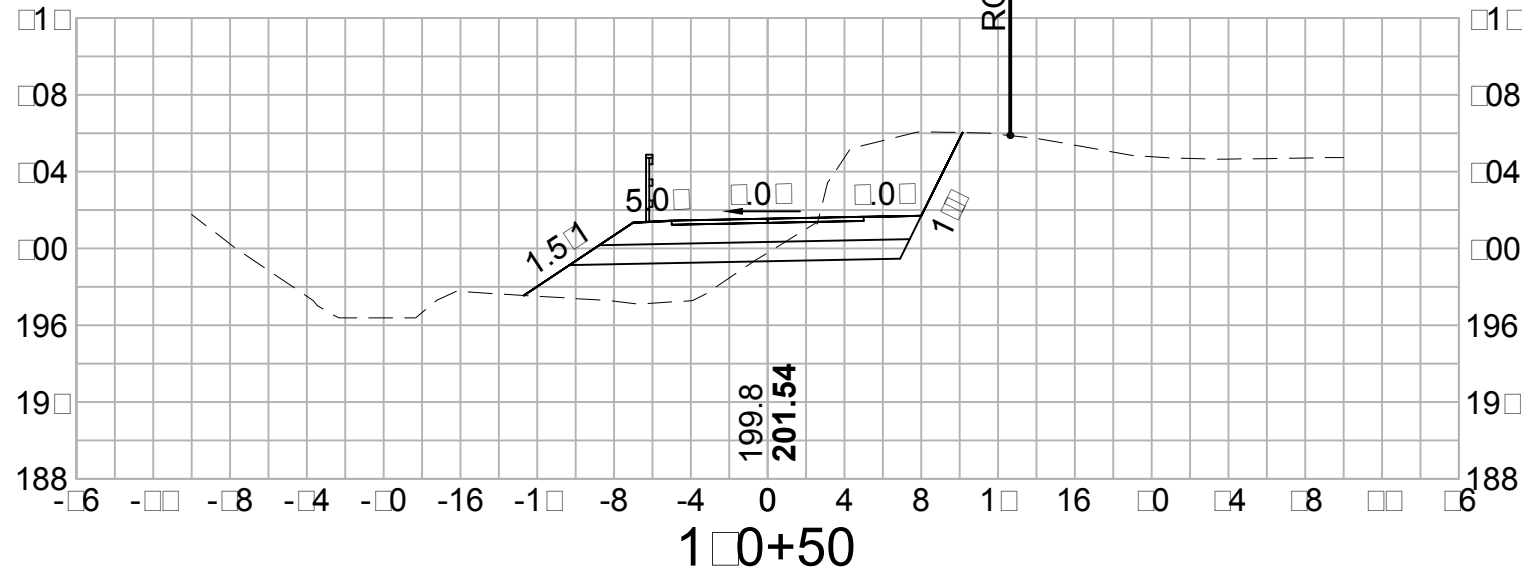
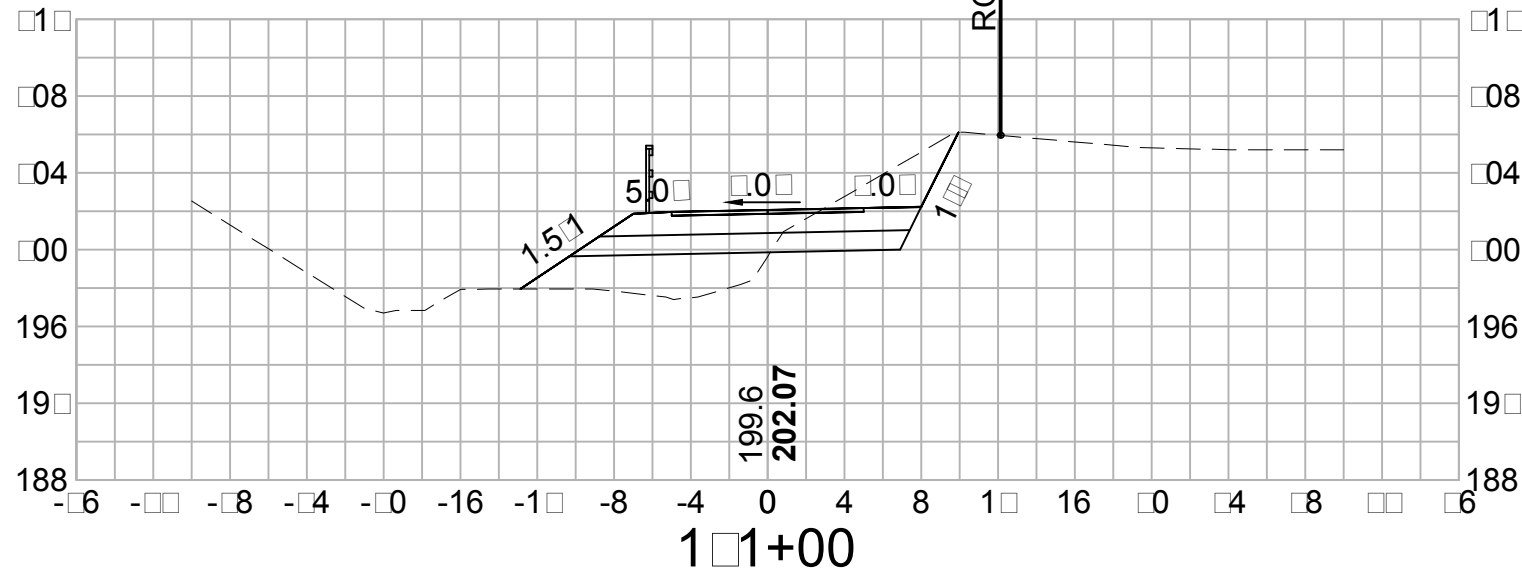
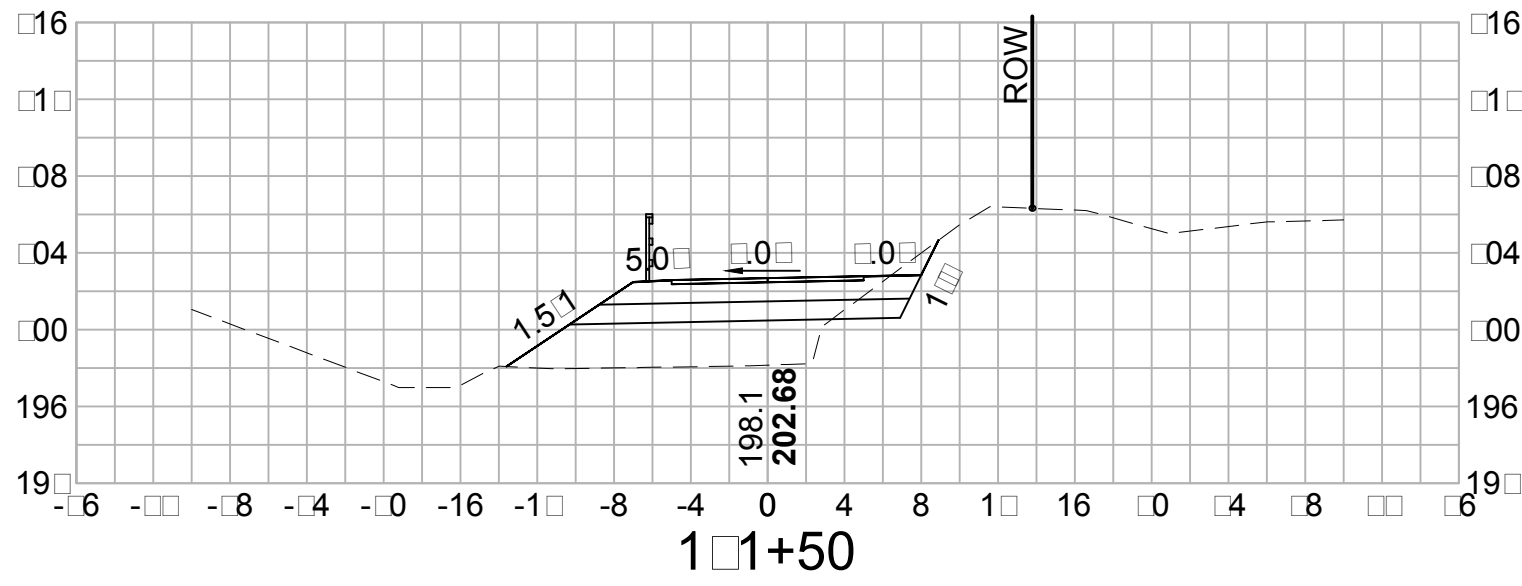
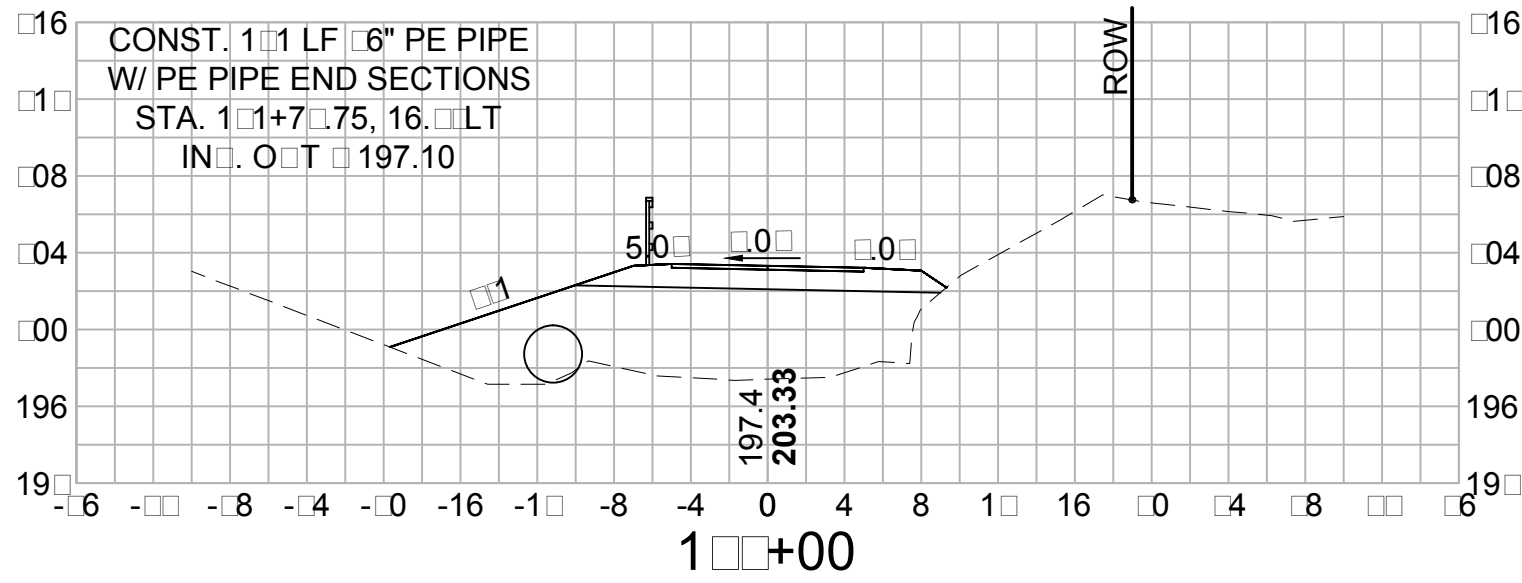
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	33	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL				DESCRIPTION
	NEW DESIGN	DATE	STATION	STATION		
	SHEET CHECKED	DATE	STATION	STATION		
AS BUILT DETAILS	DATE					



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	34	58

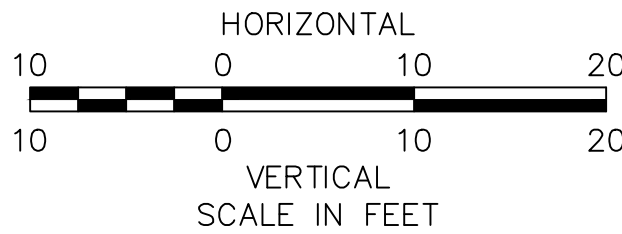
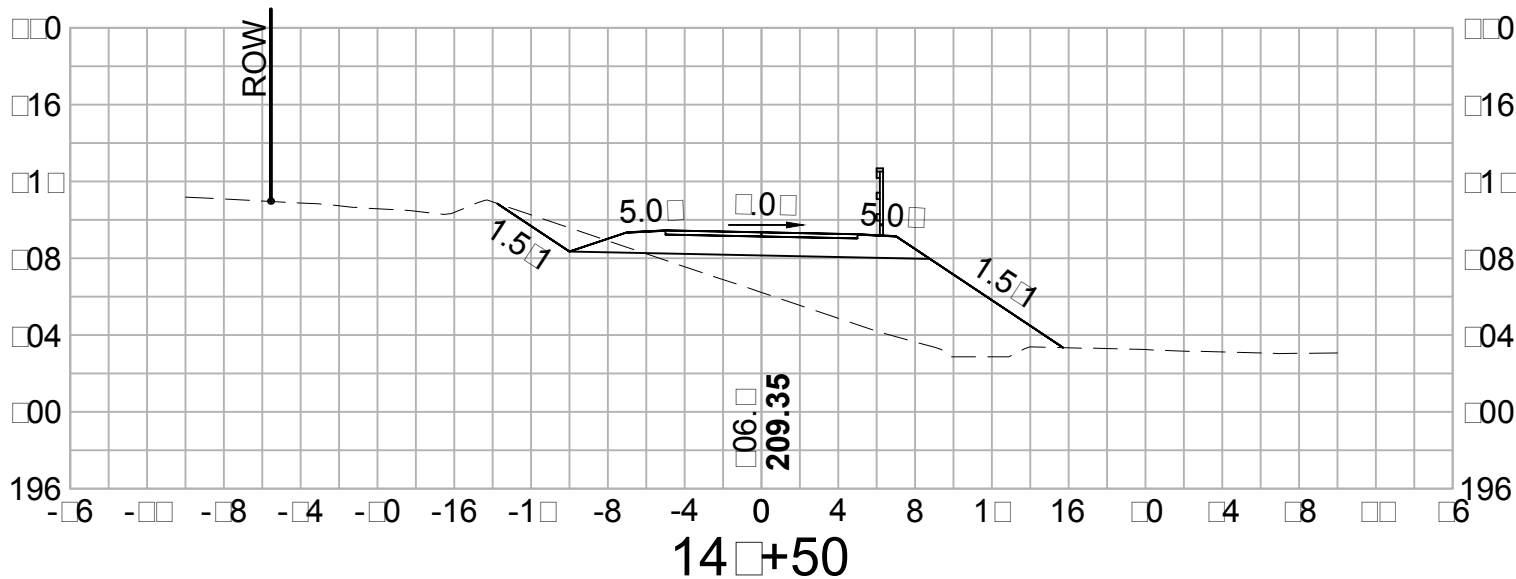
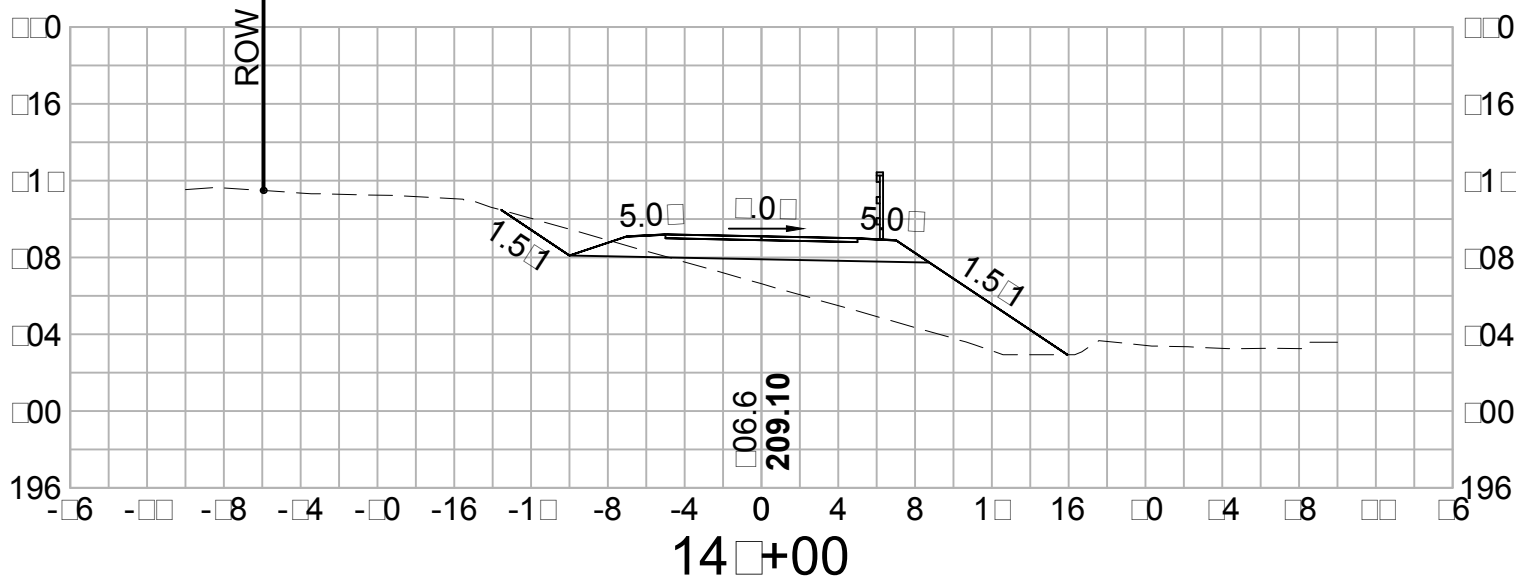
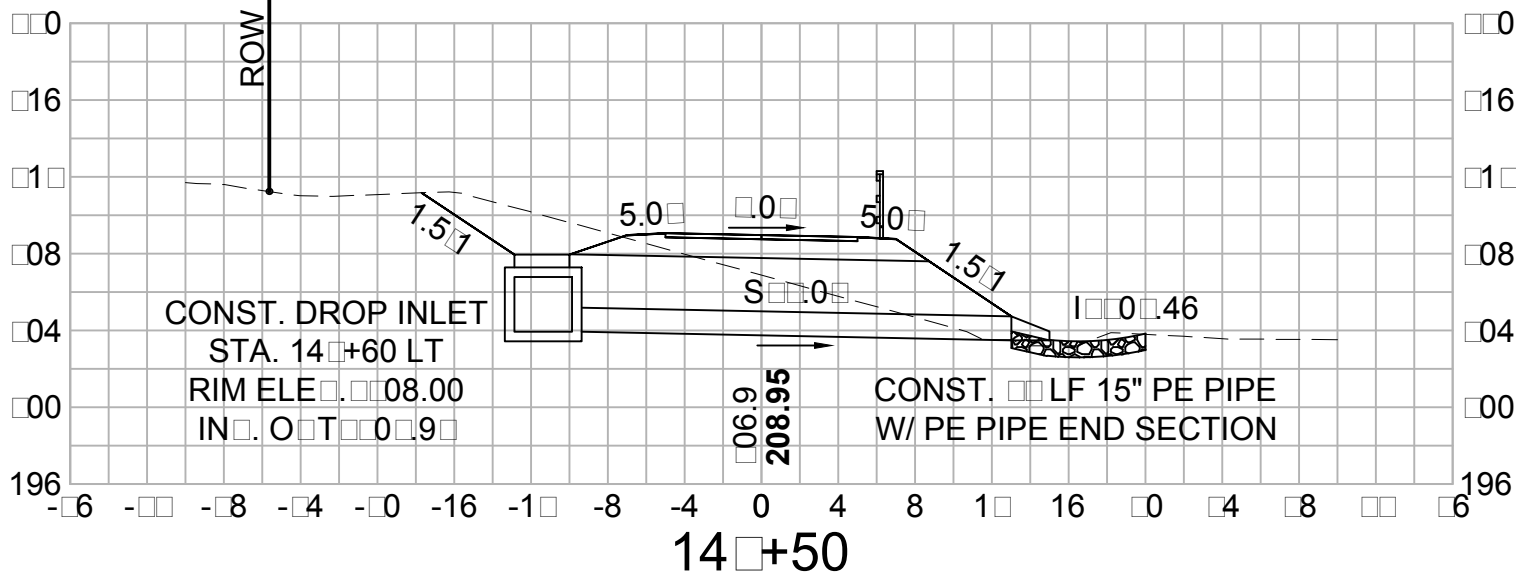
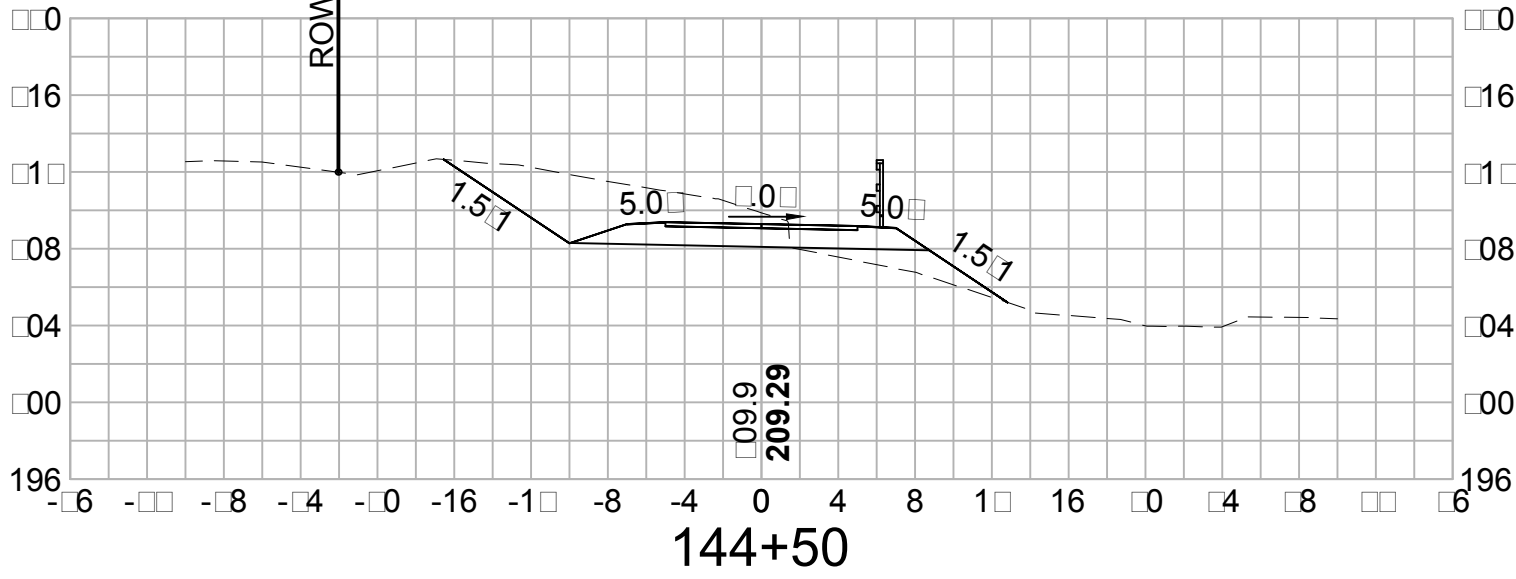
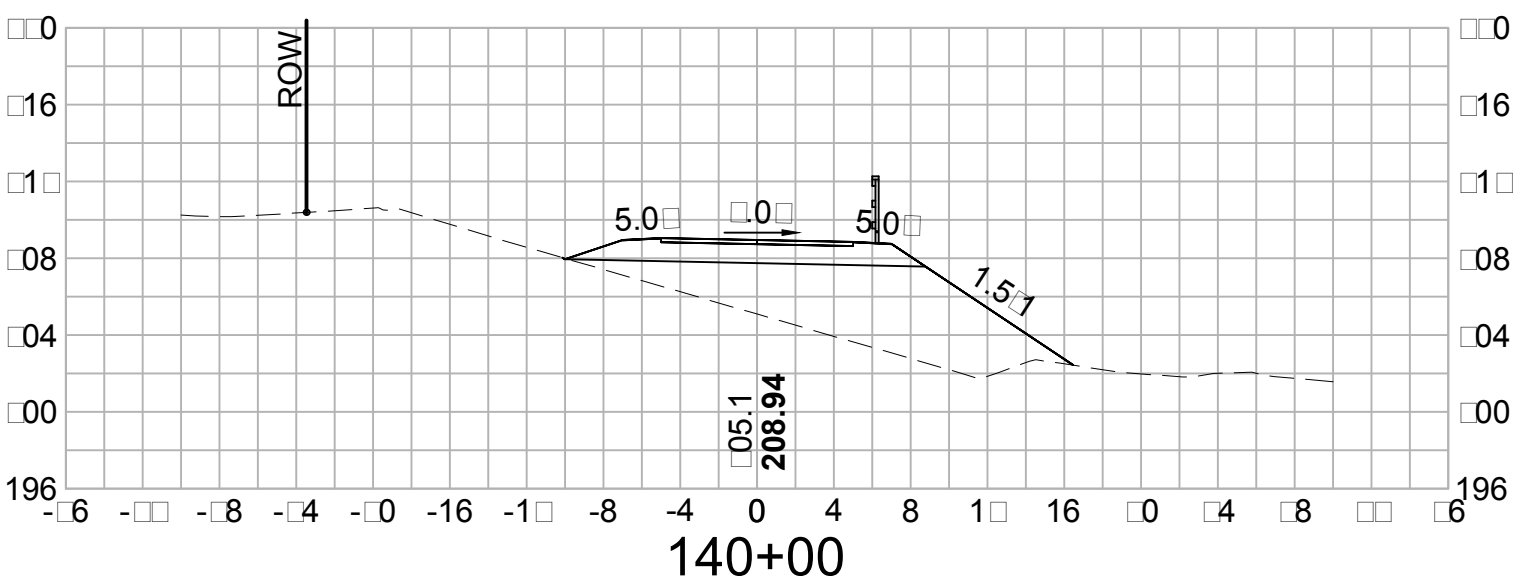
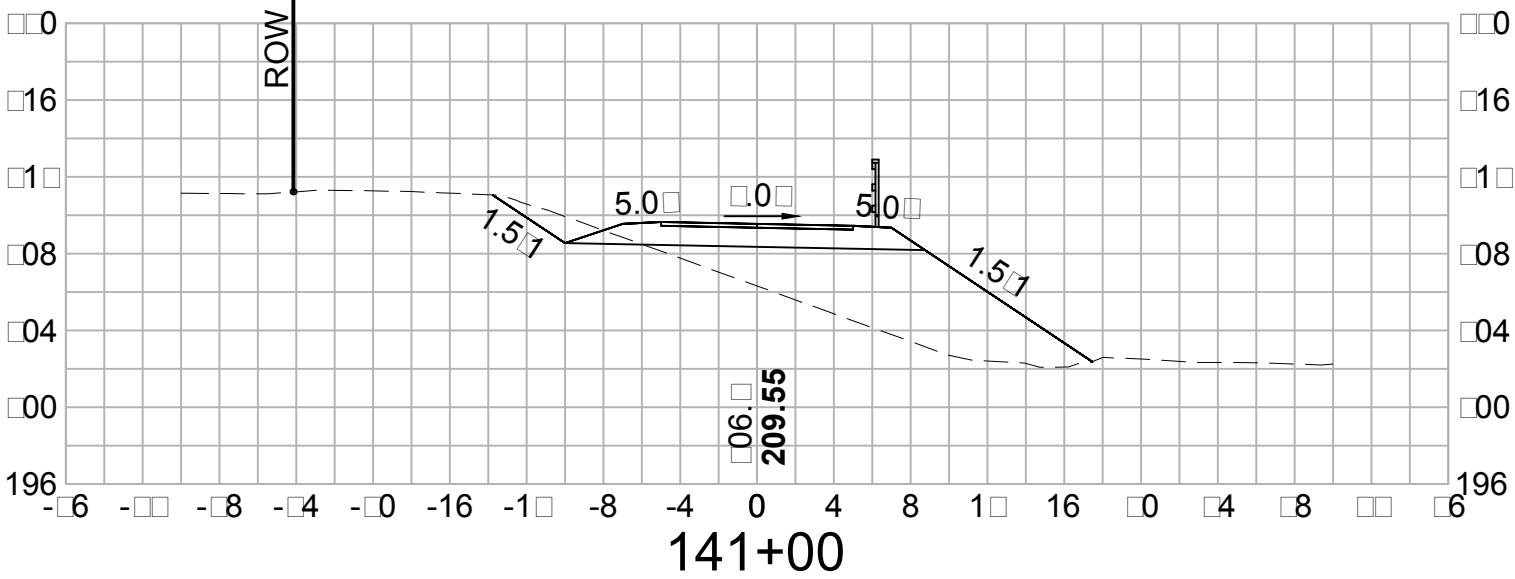
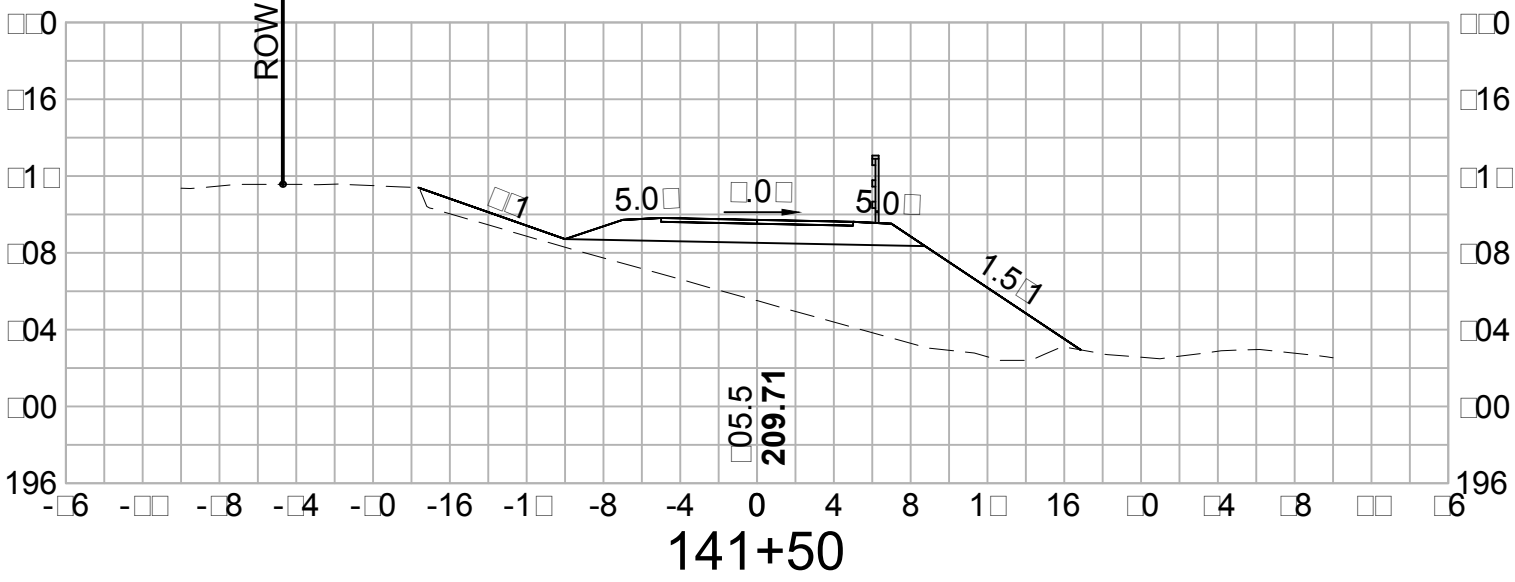
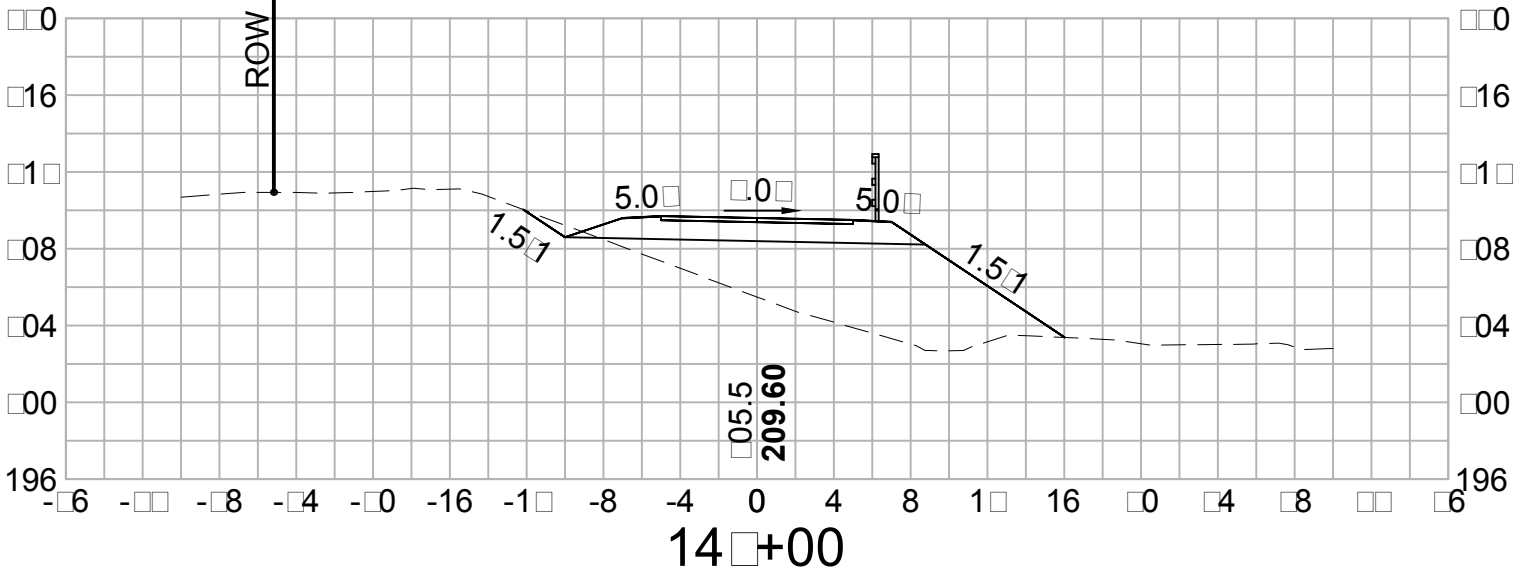
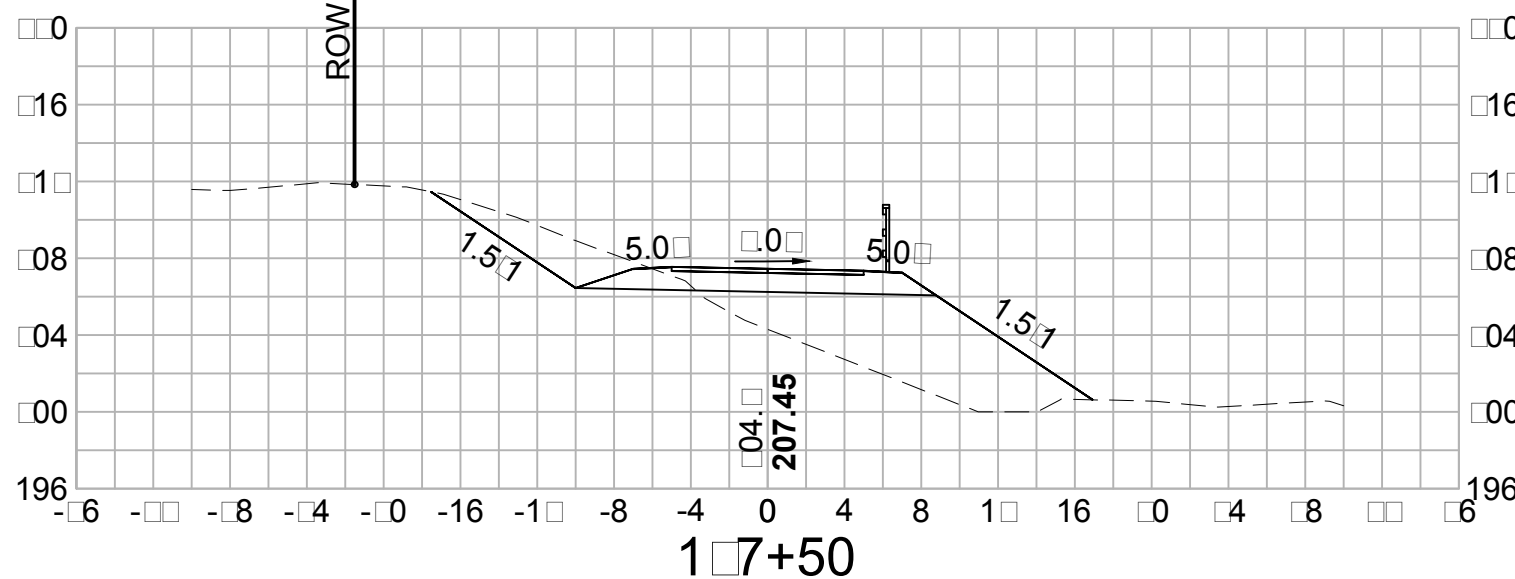
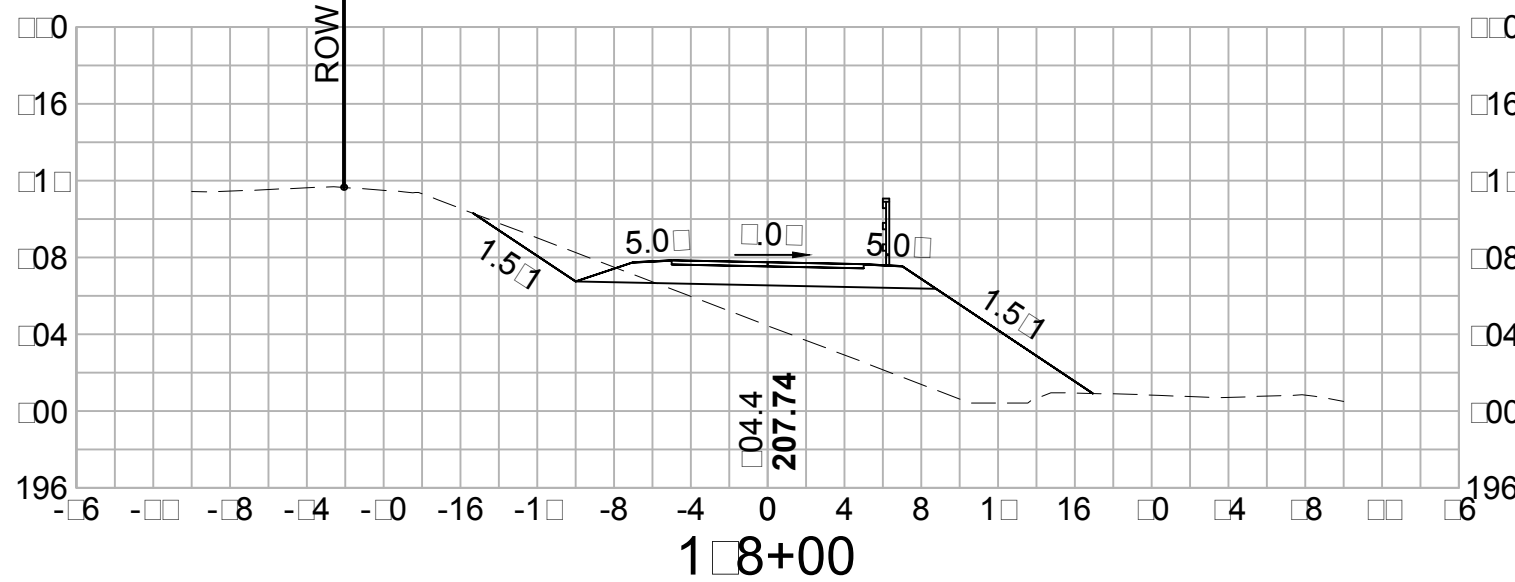
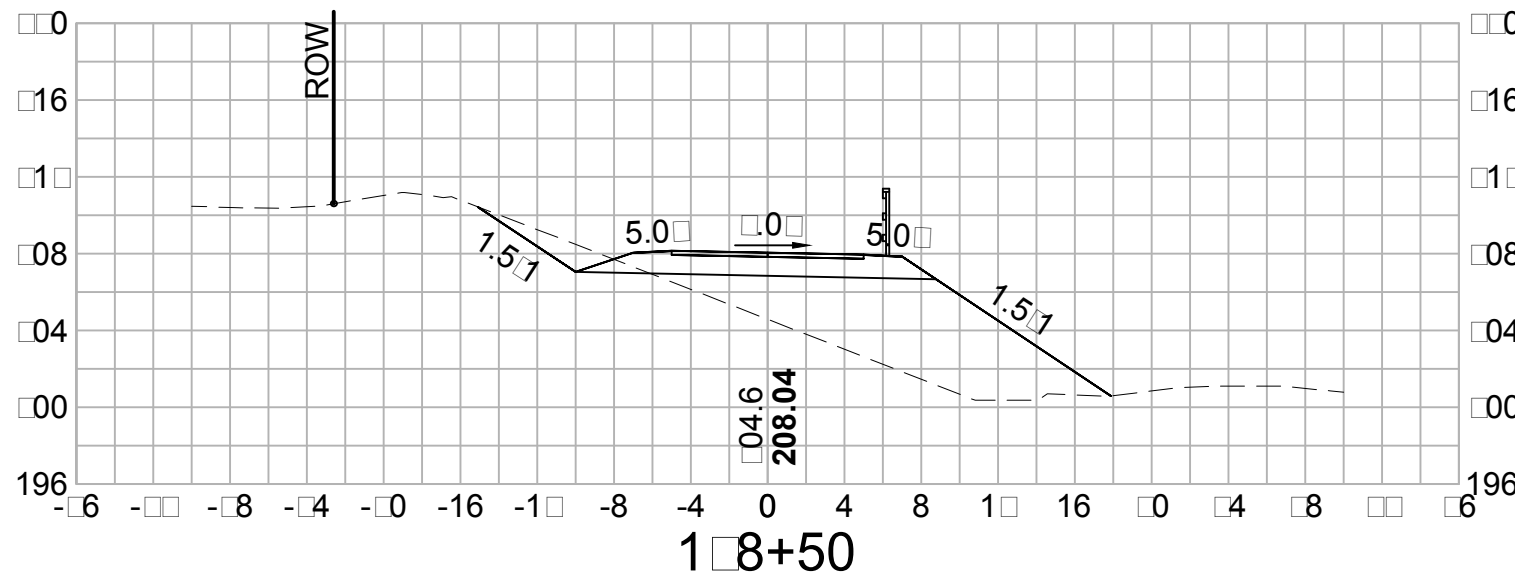
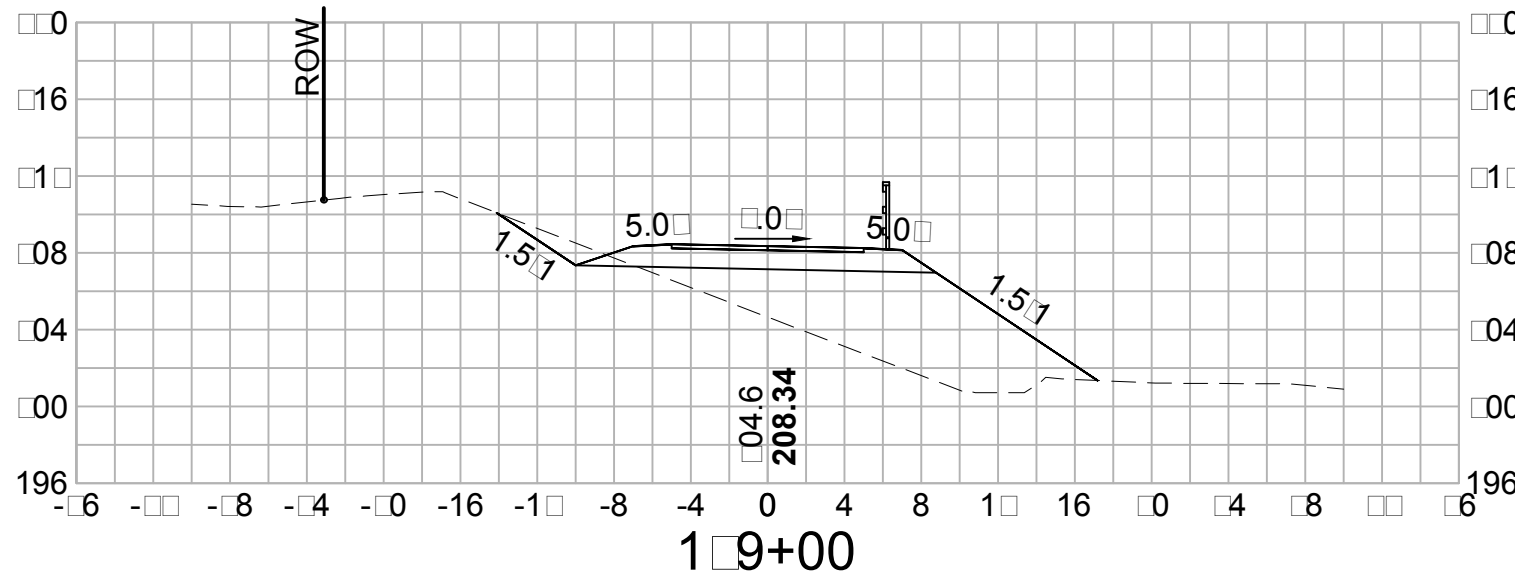
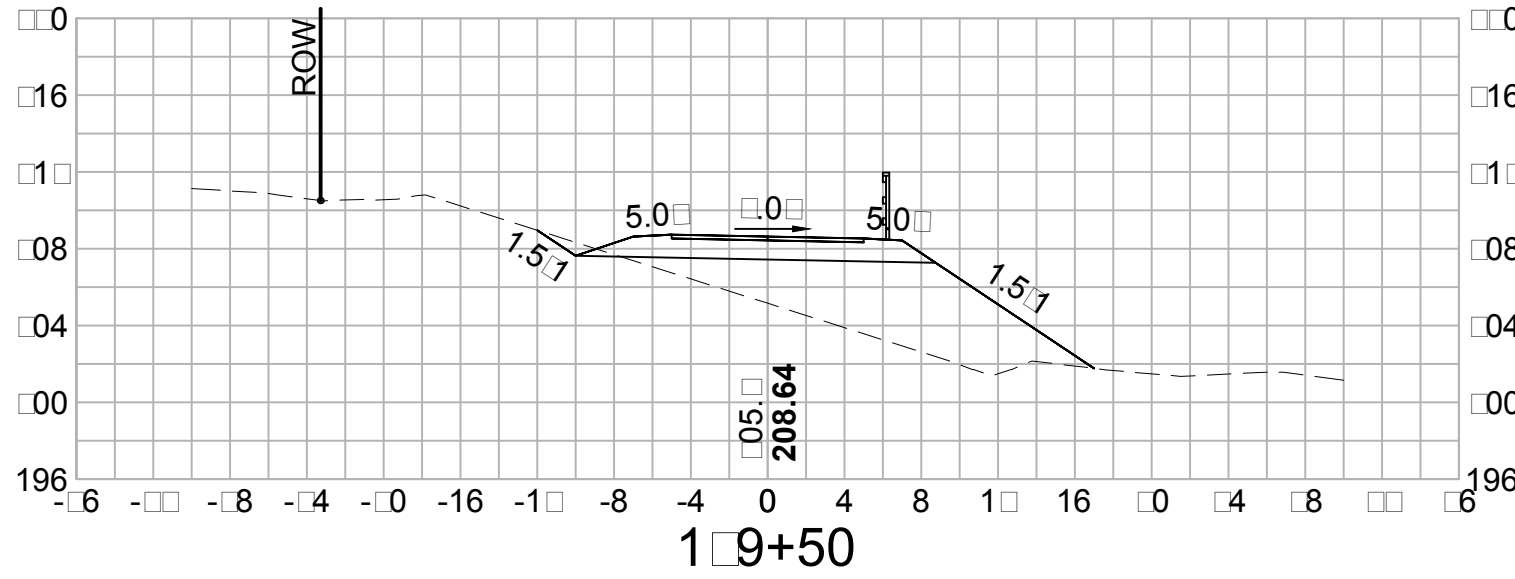
TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

REVISIONS AFTER PROPOSAL				DESCRIPTION	
NUMBER	DATE	STATION	STATION		

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VHB Vanasse Hangen Brustlin, Inc.

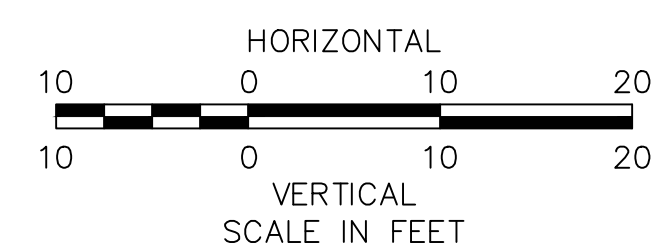
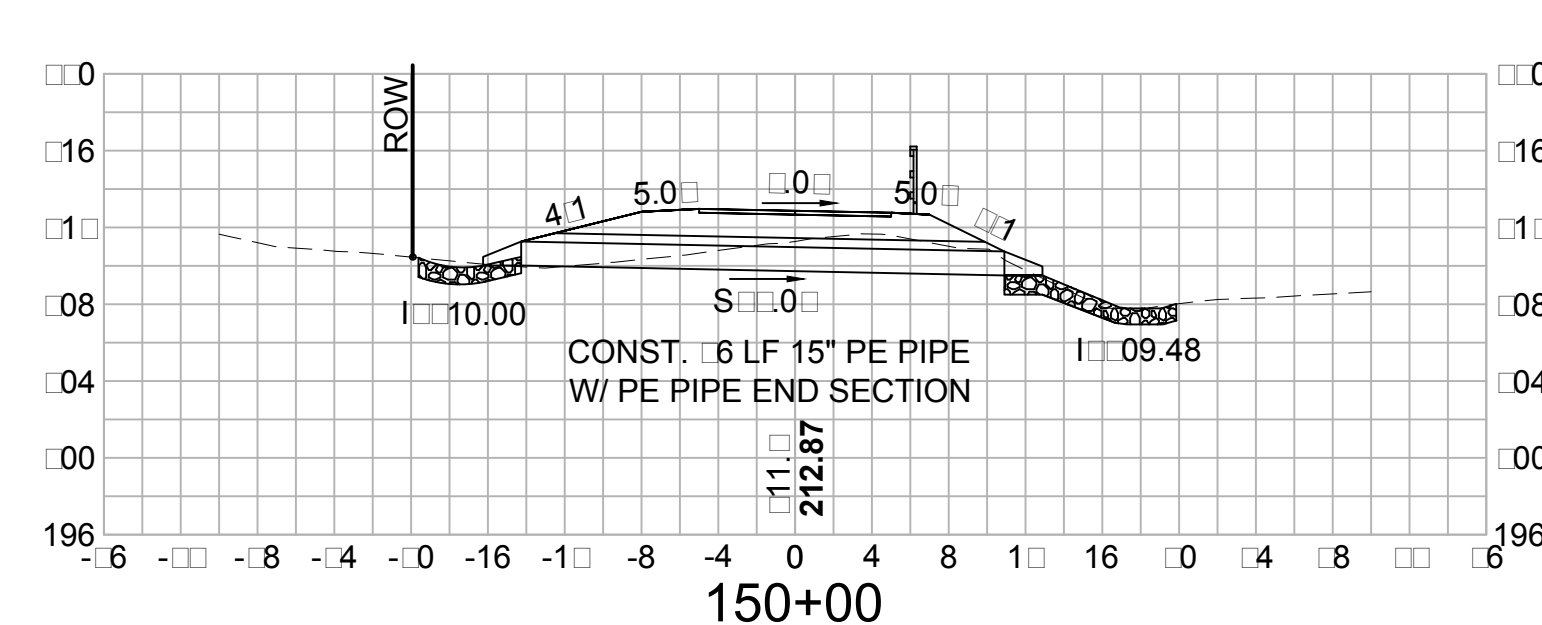
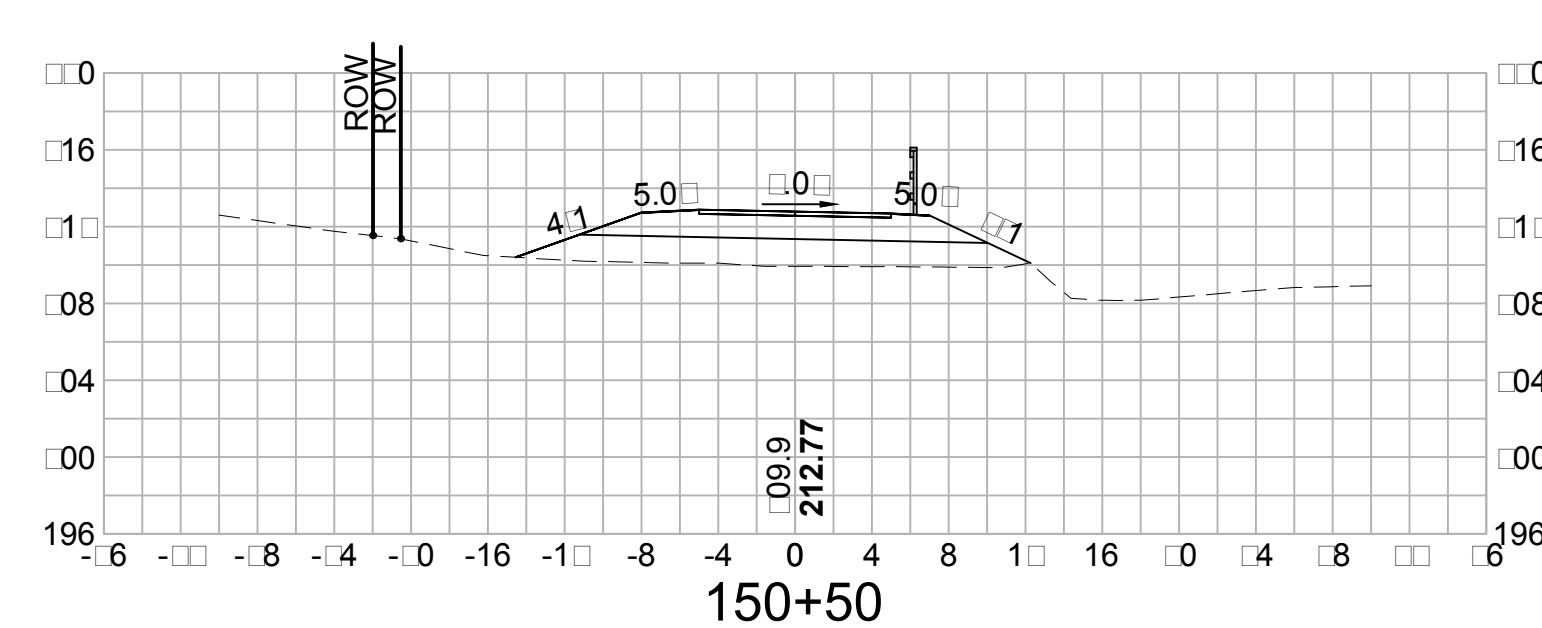
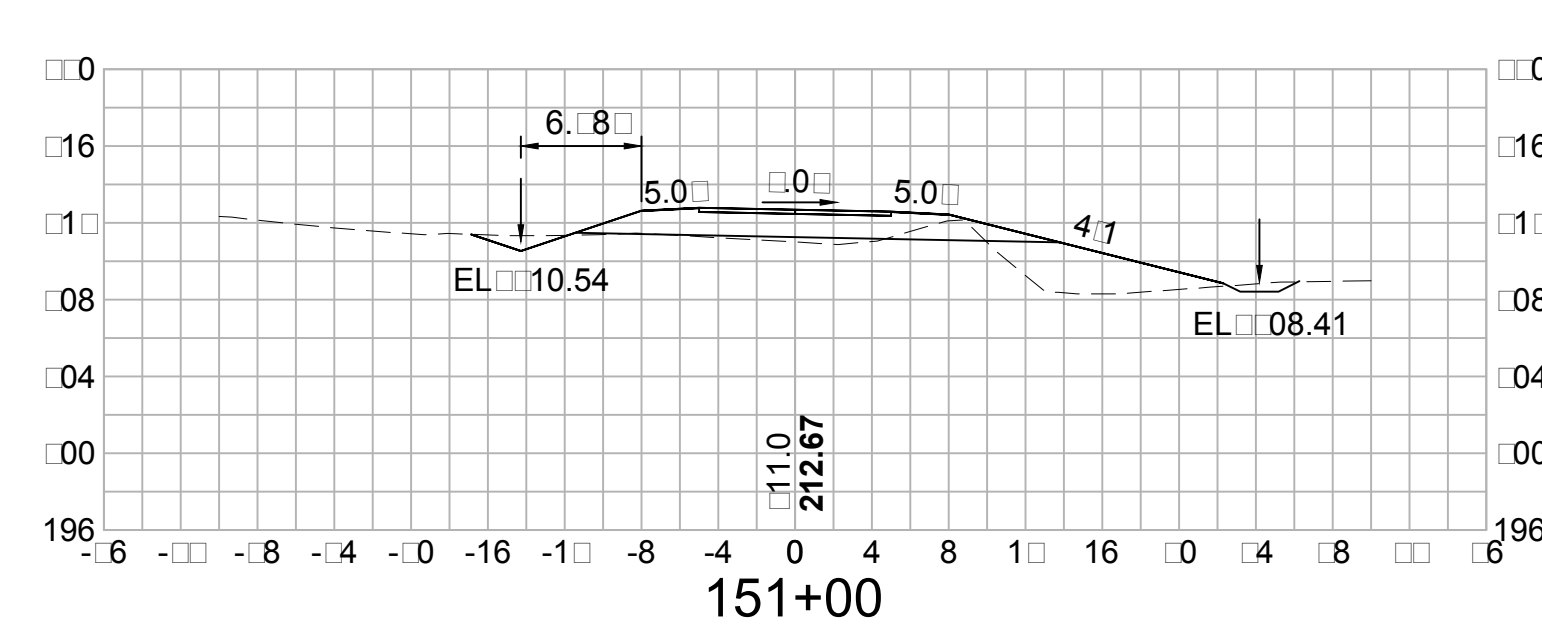
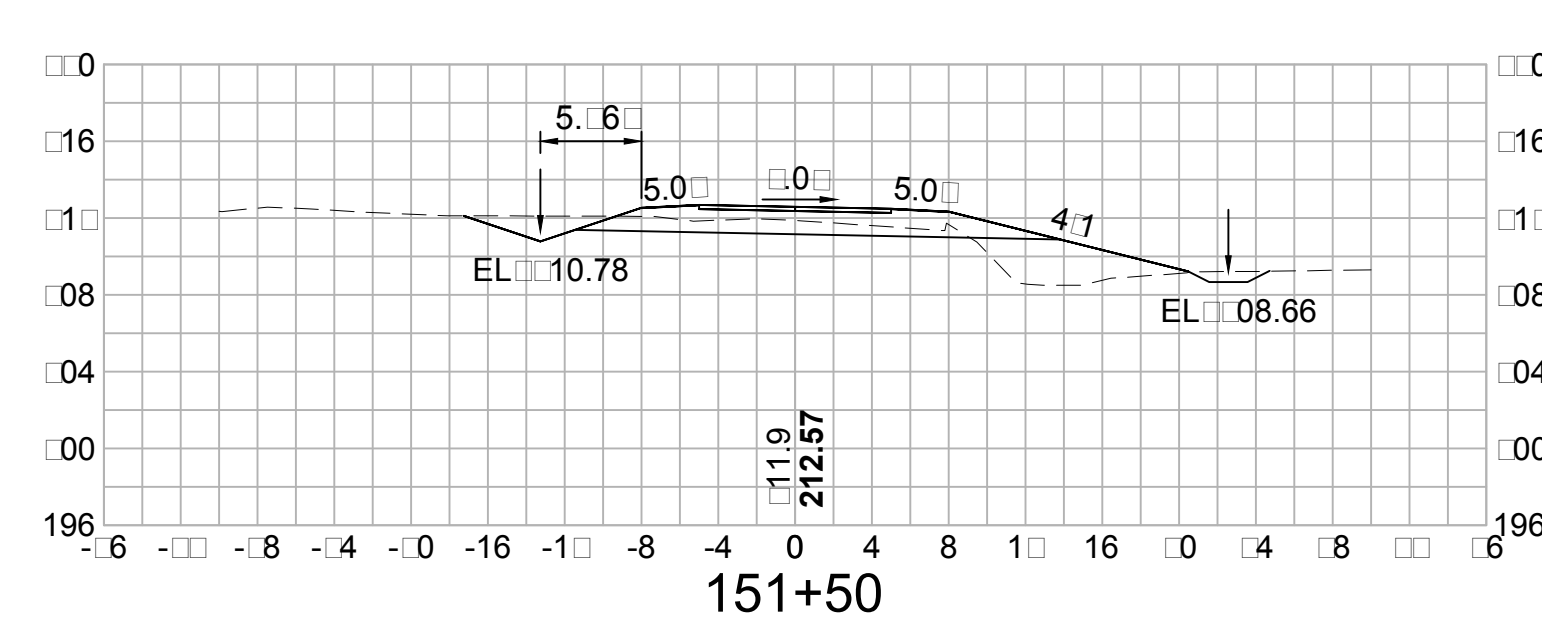
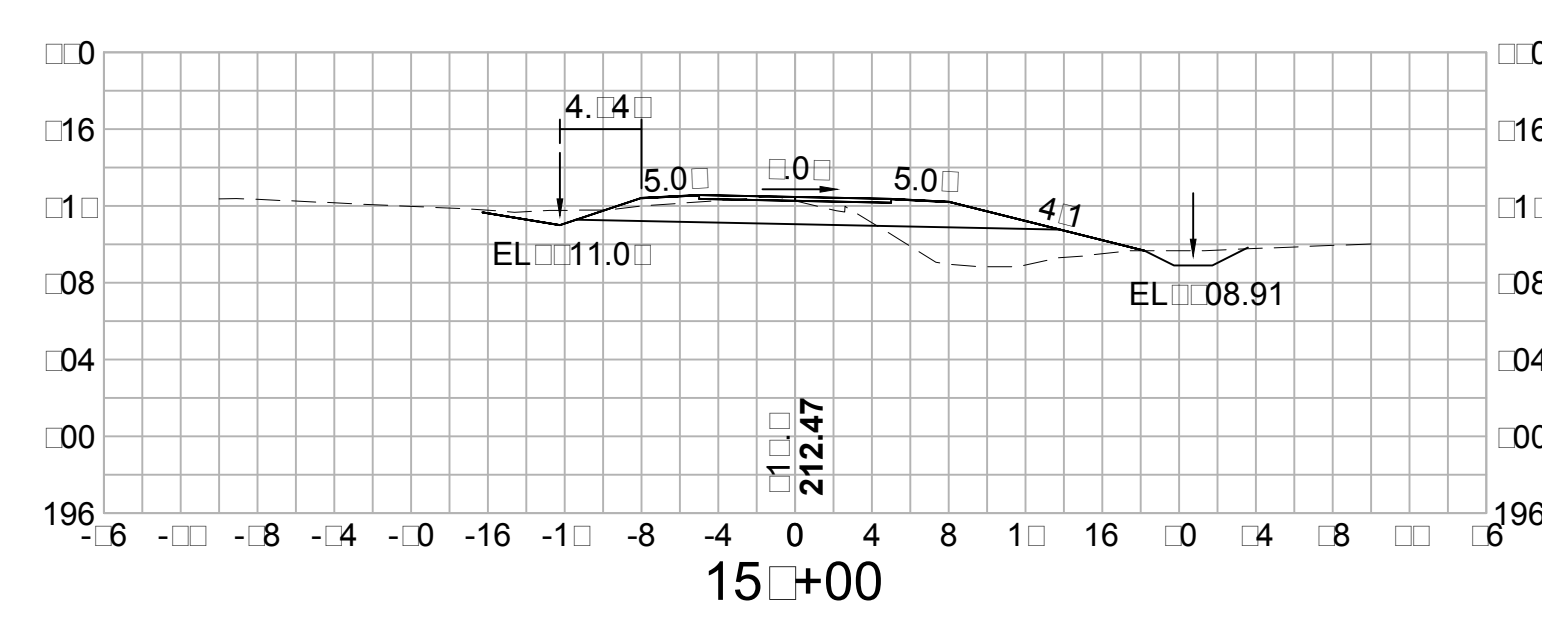
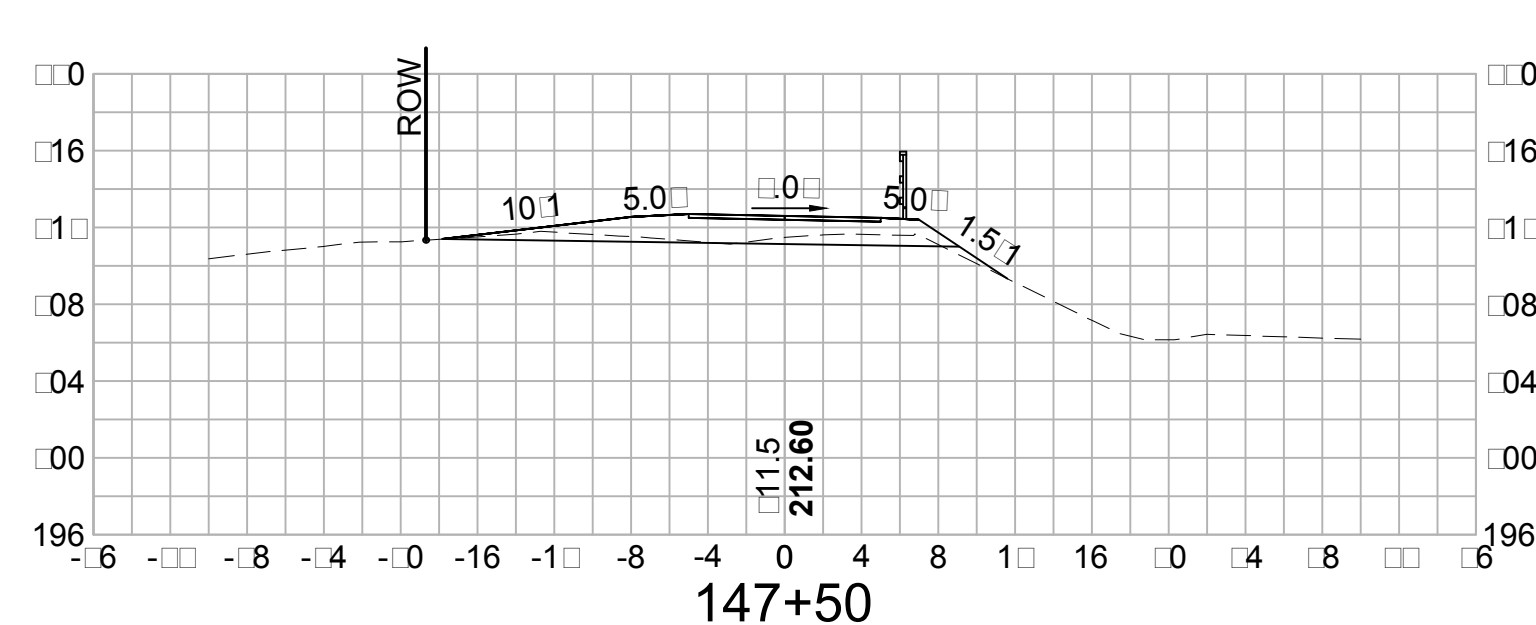
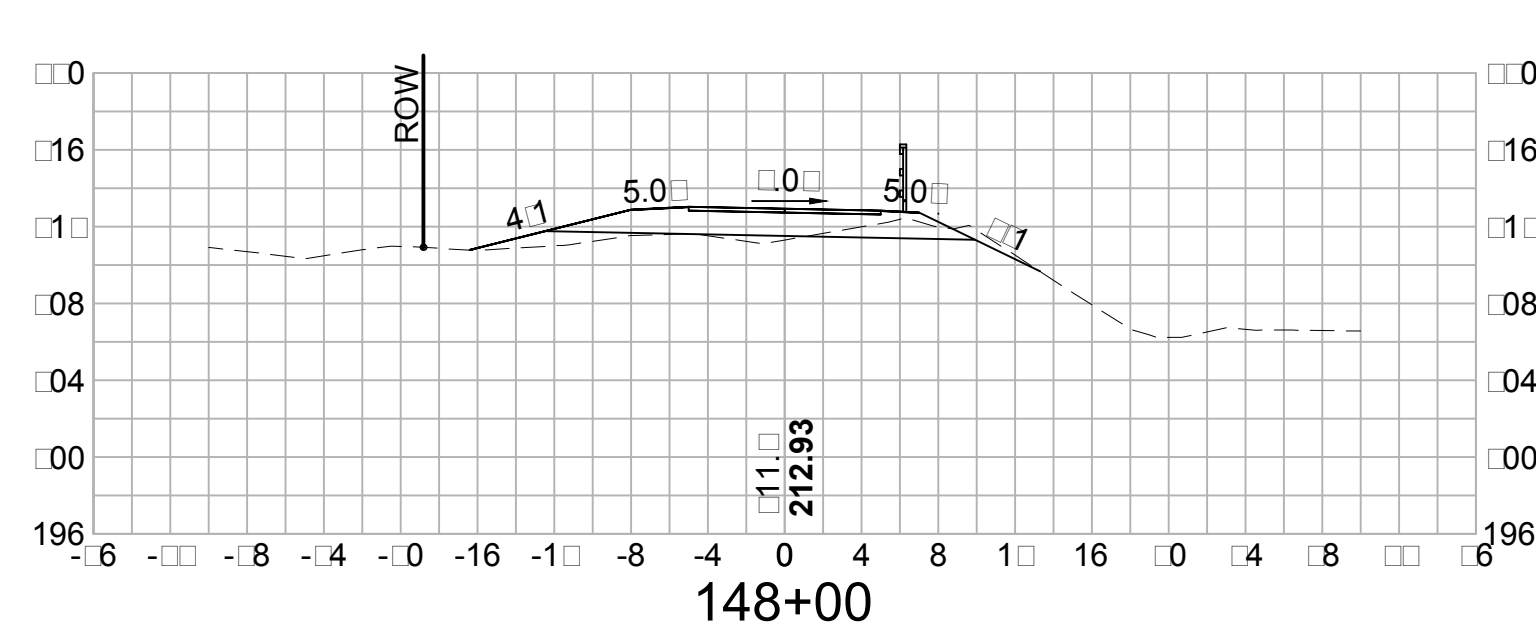
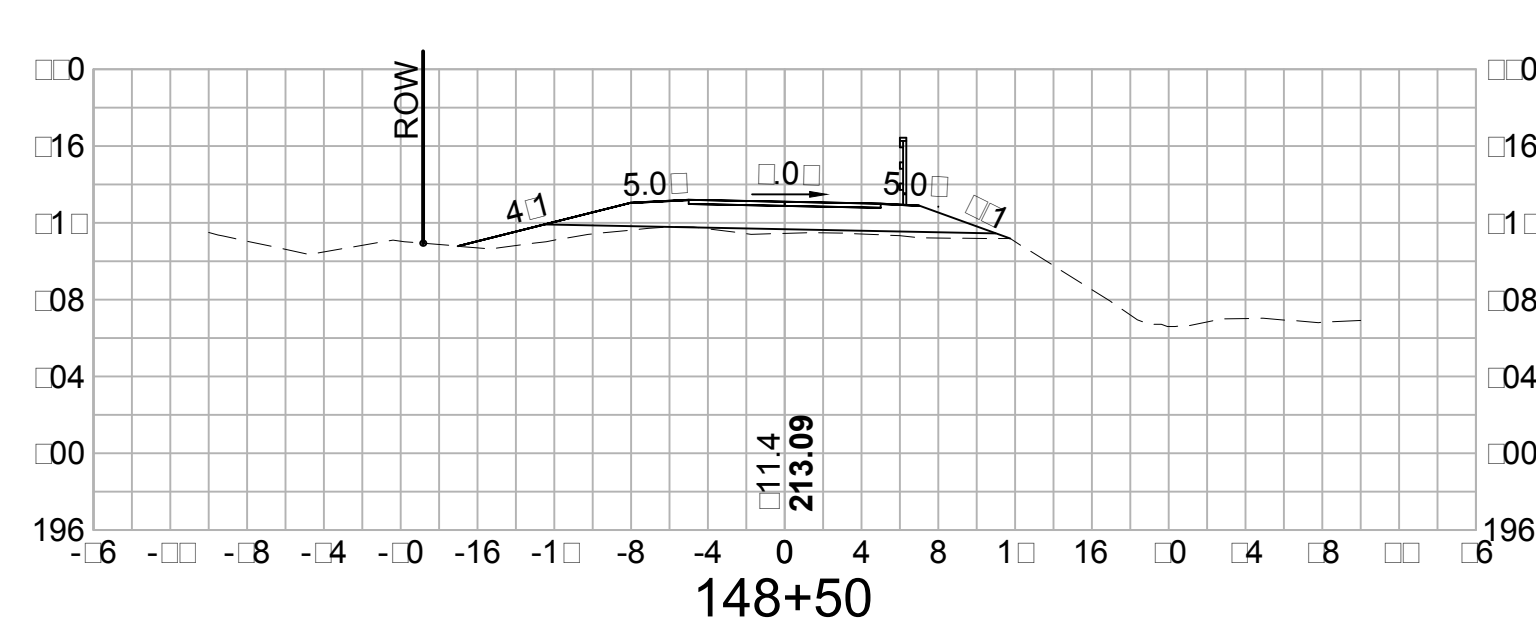
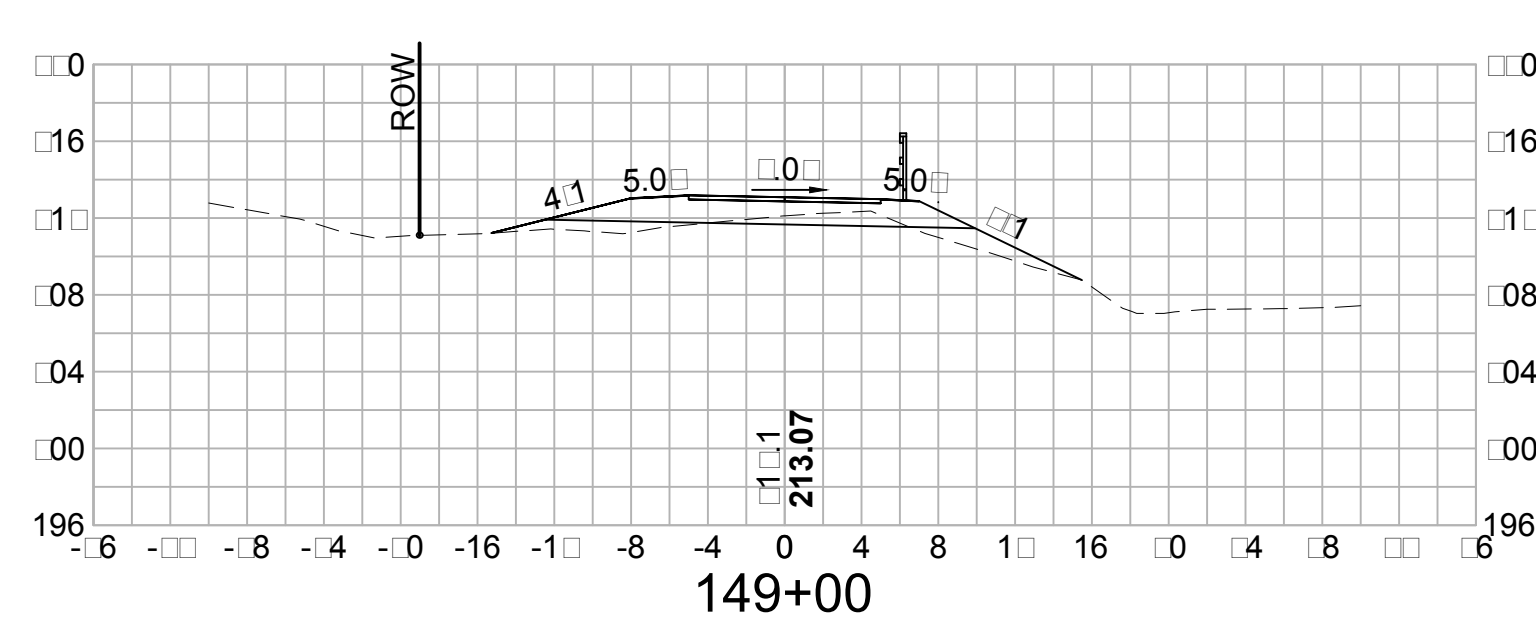
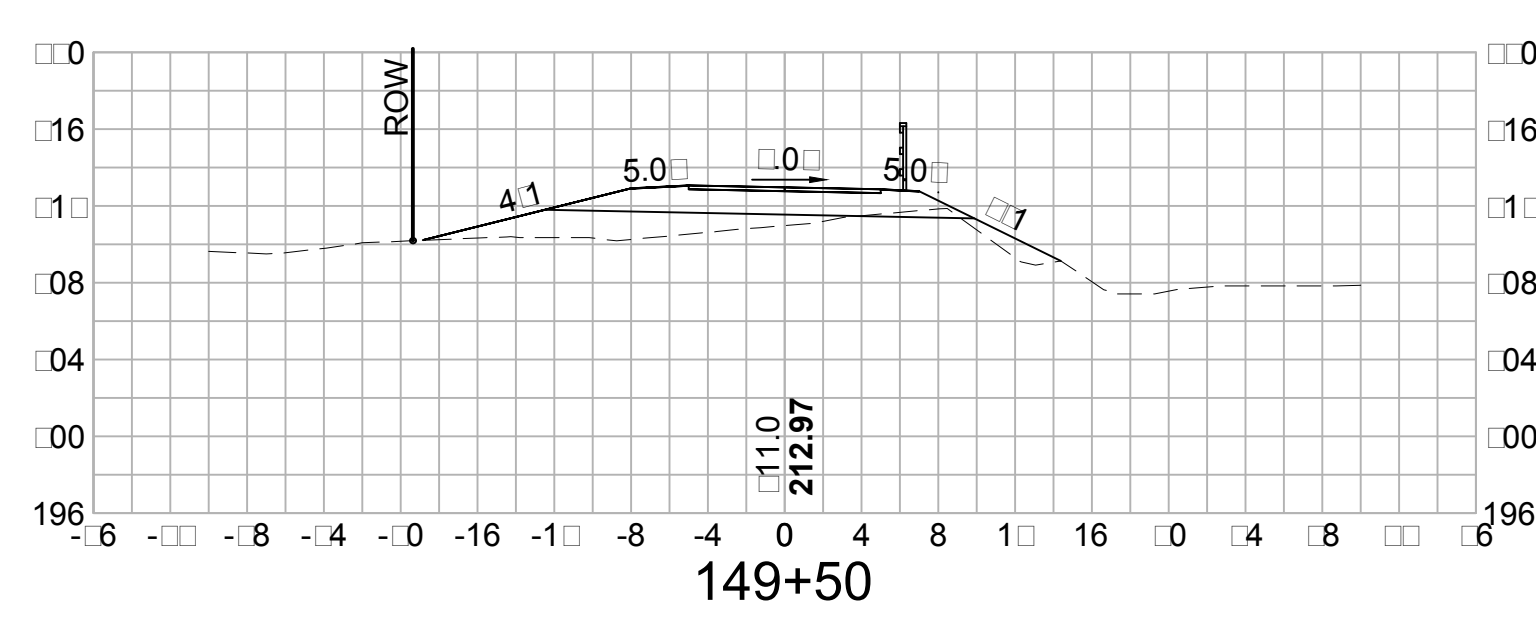
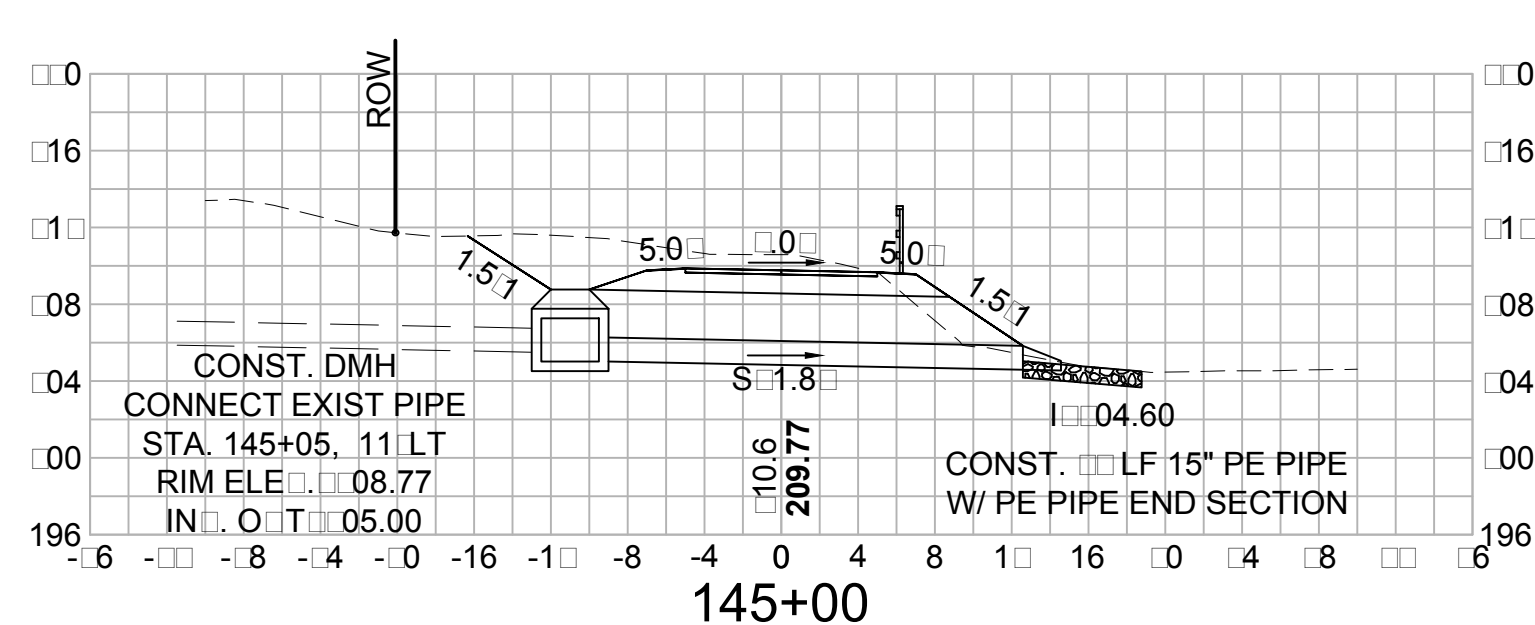
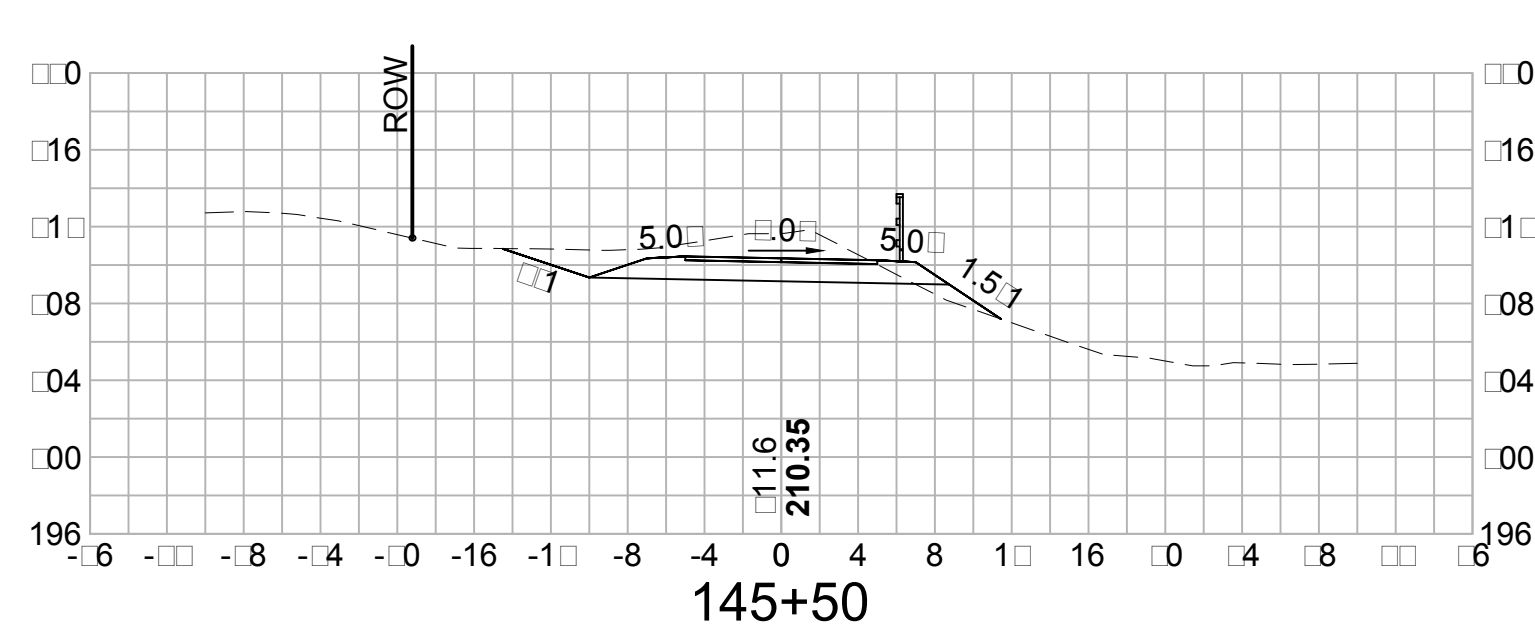
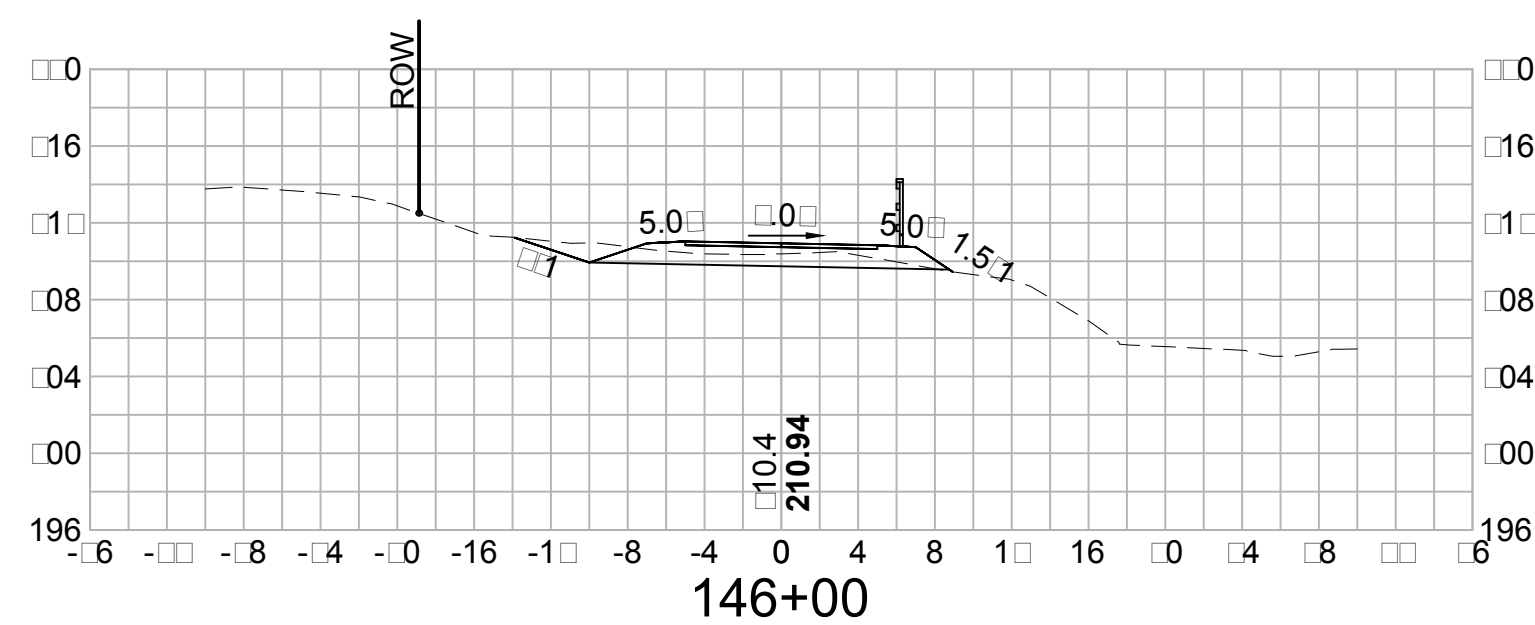
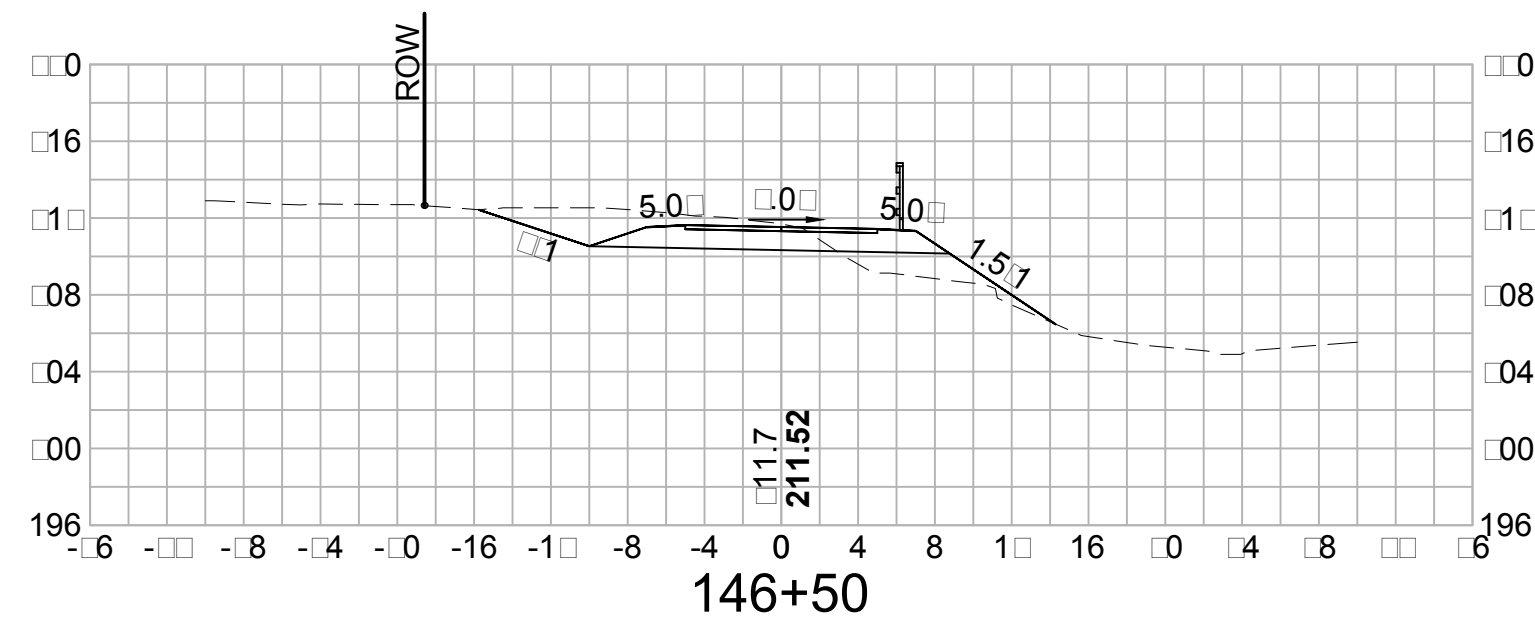
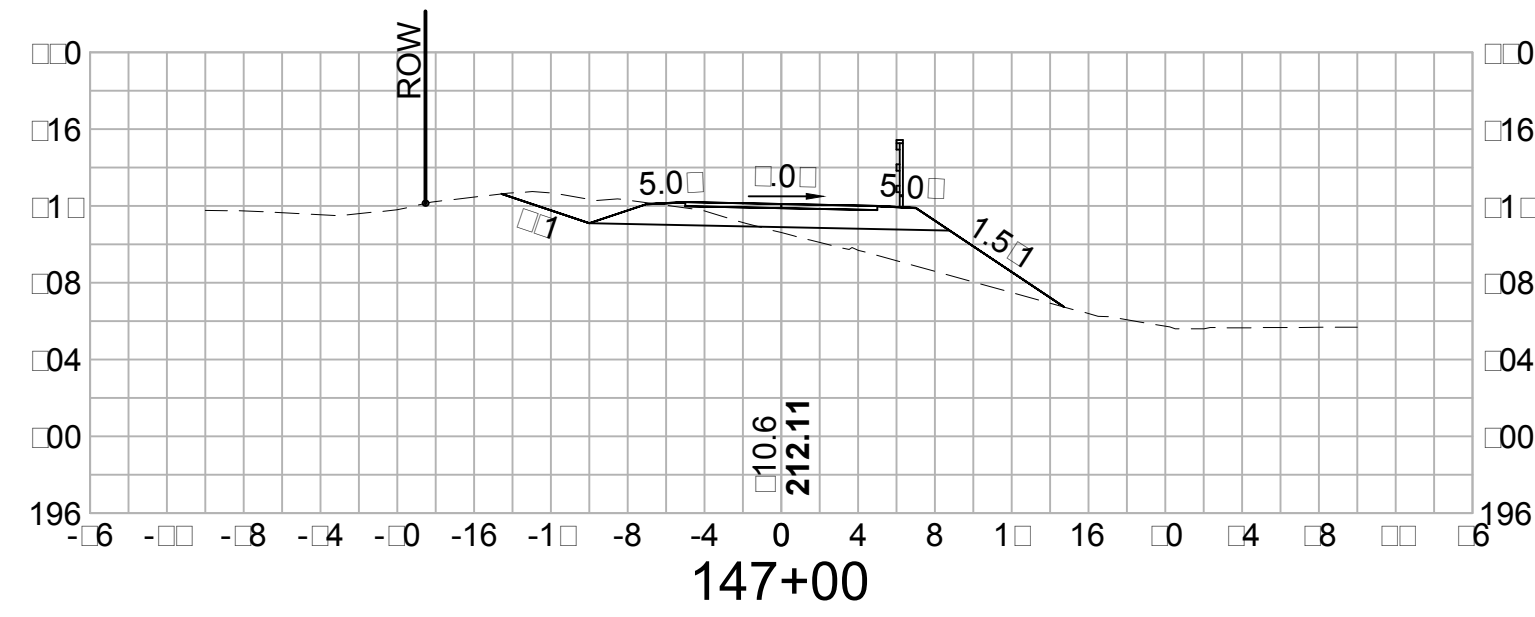
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	35	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

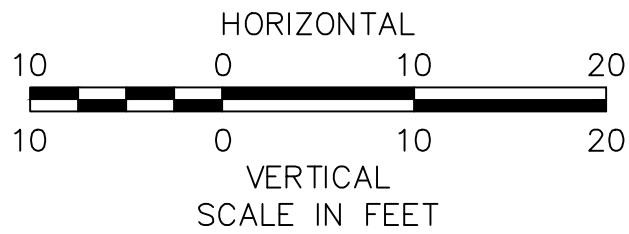
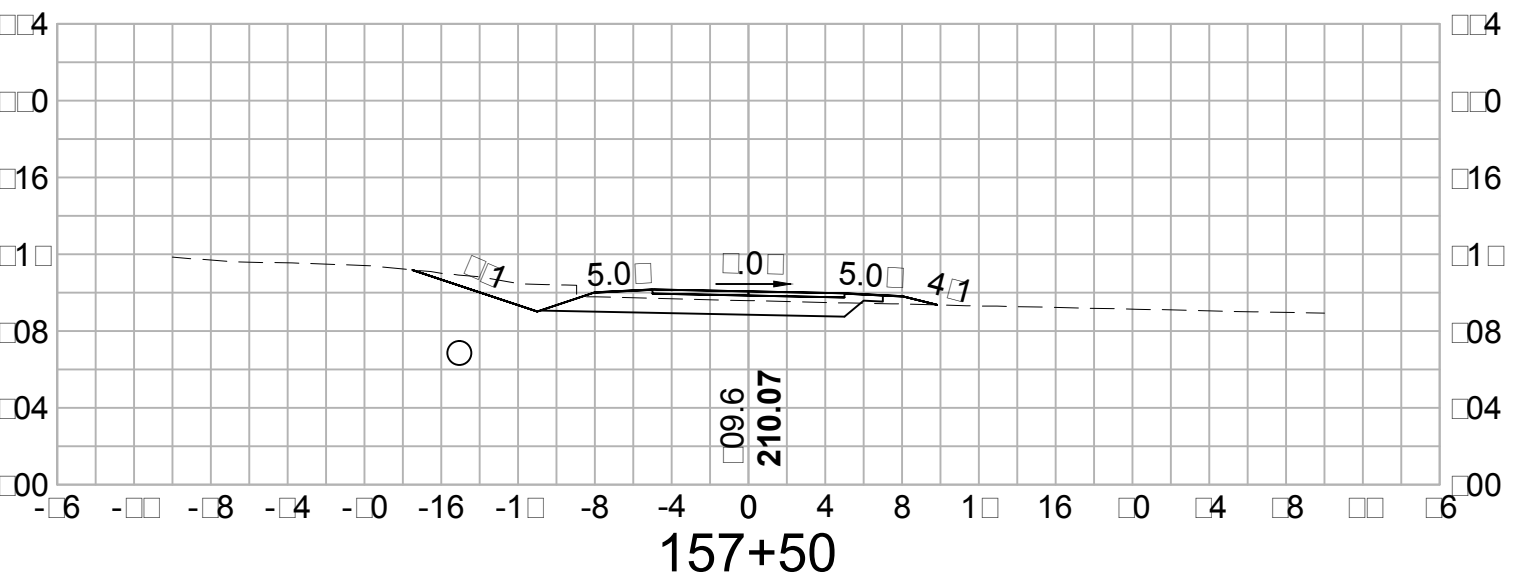
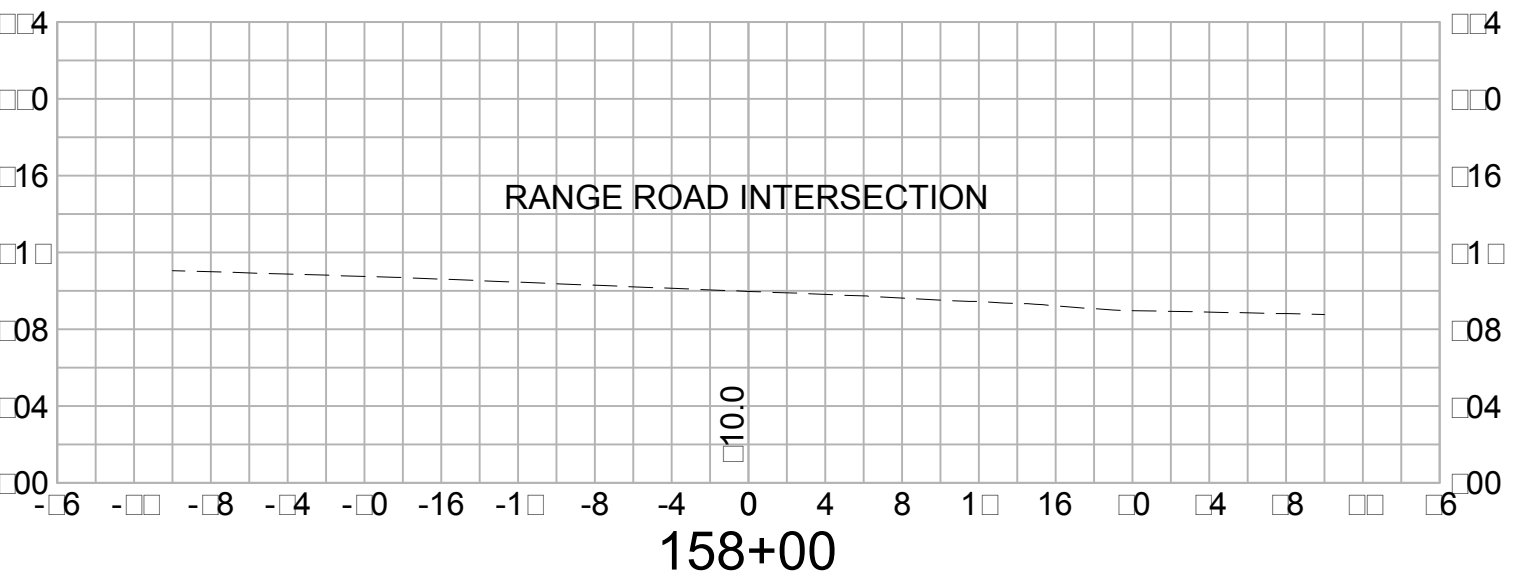
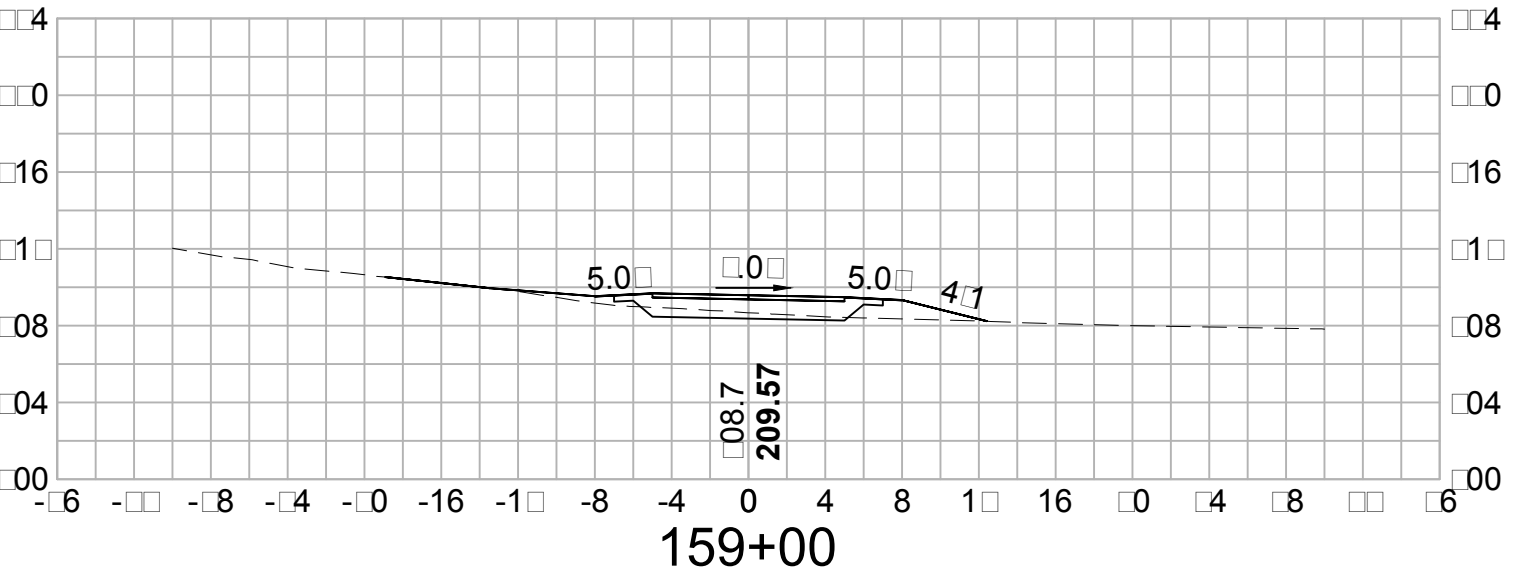
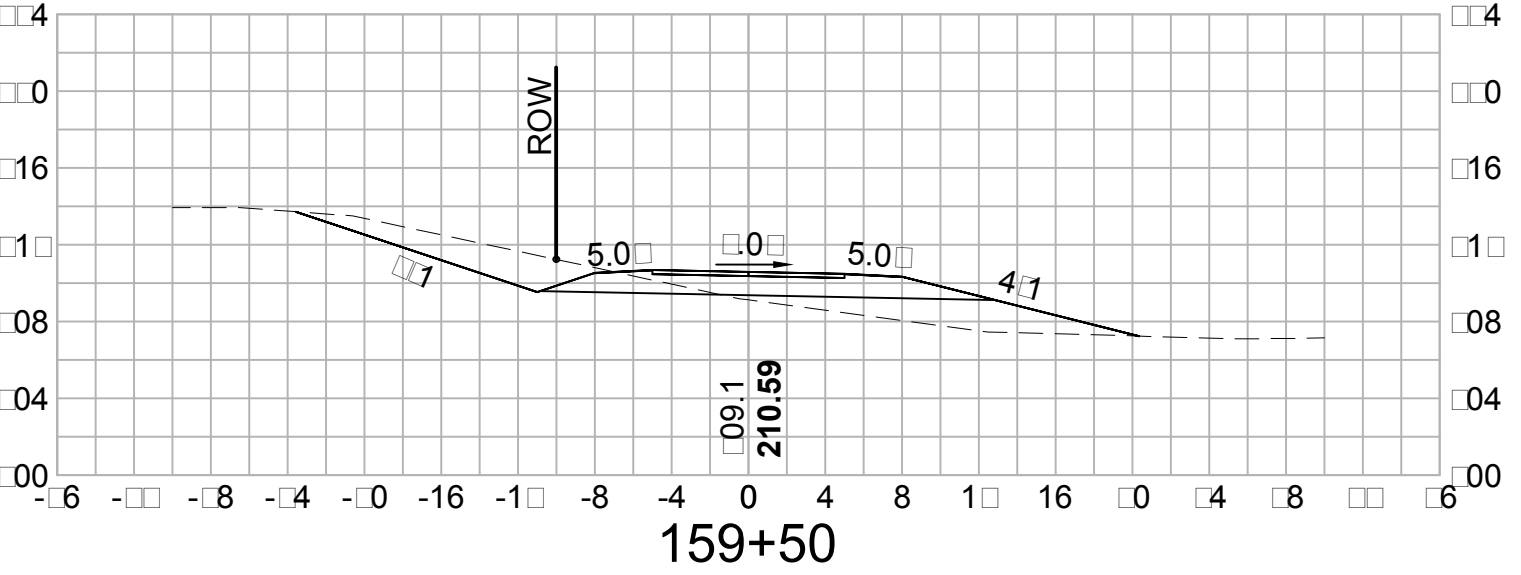
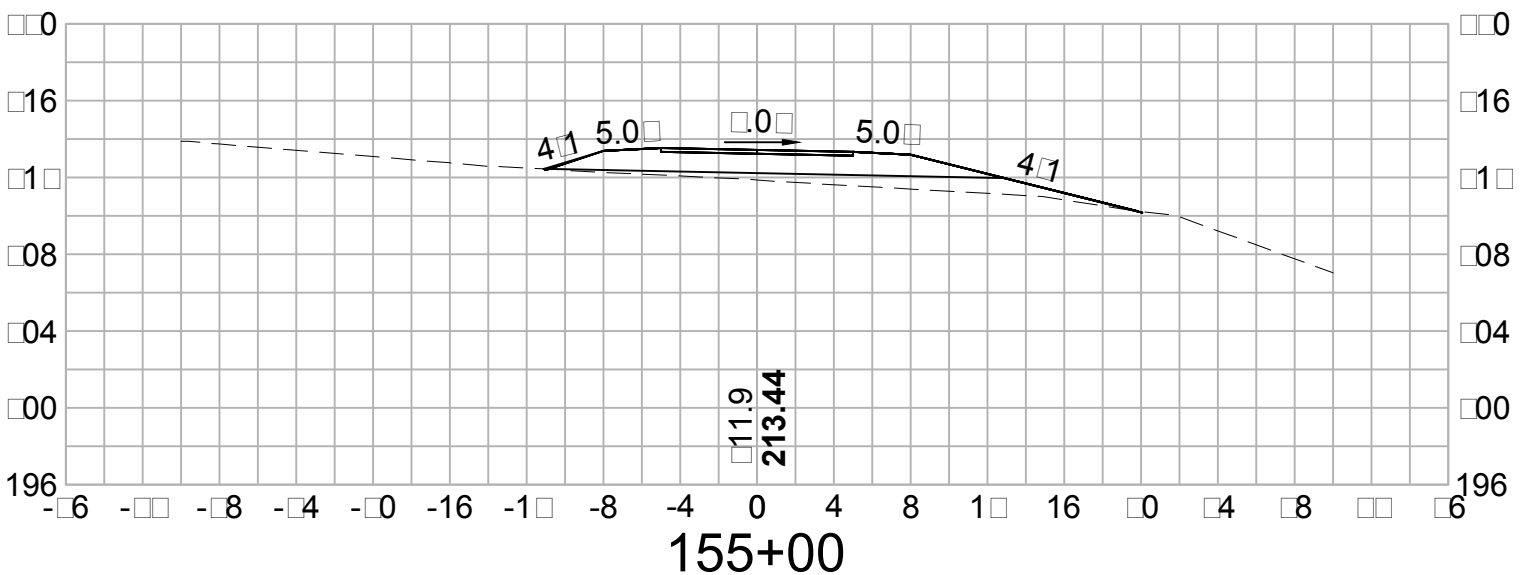
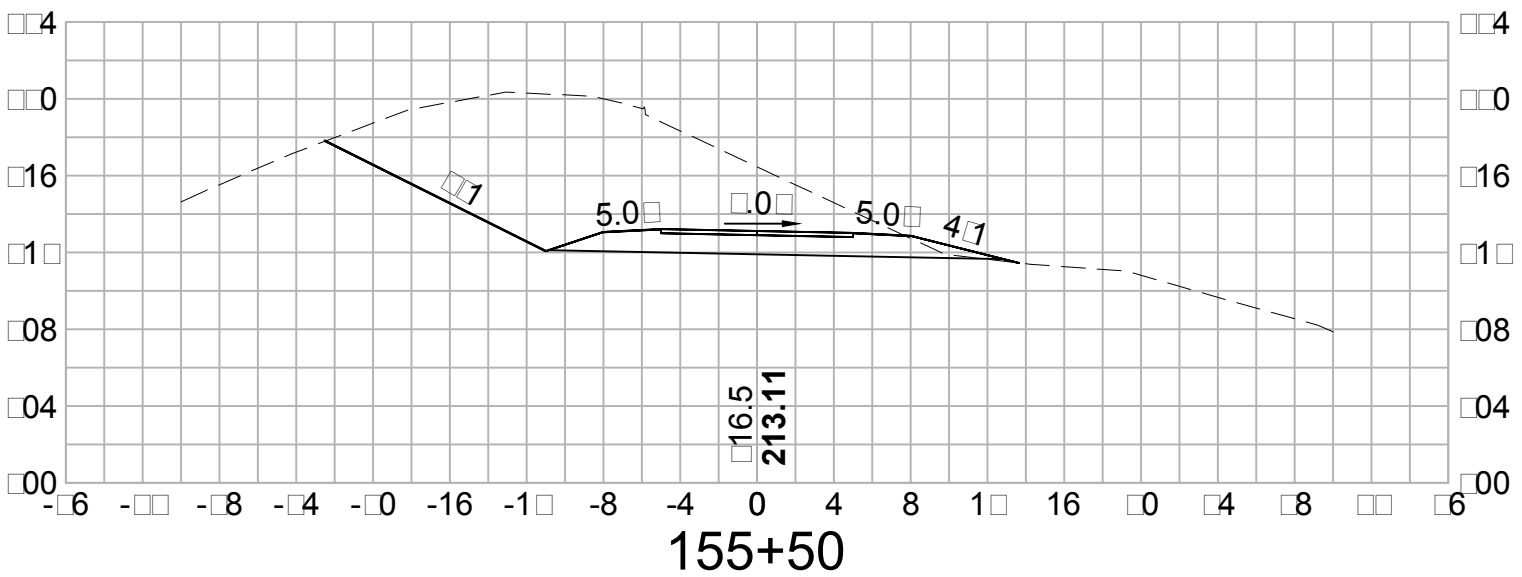
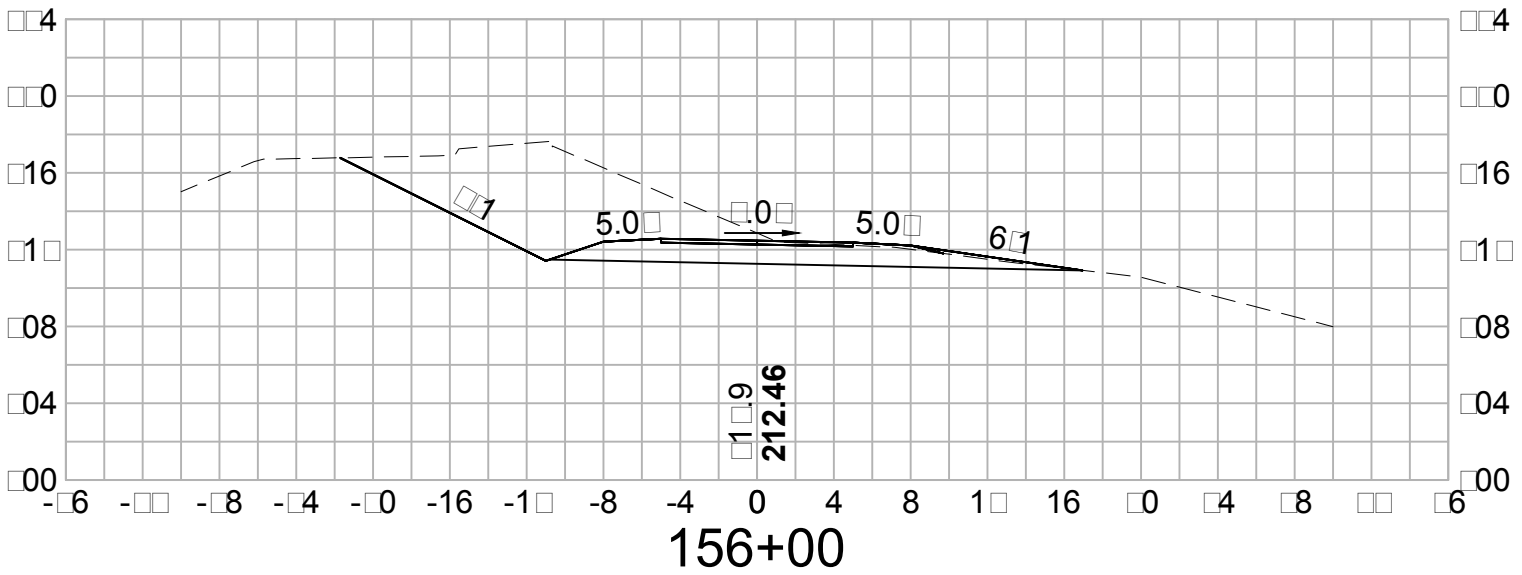
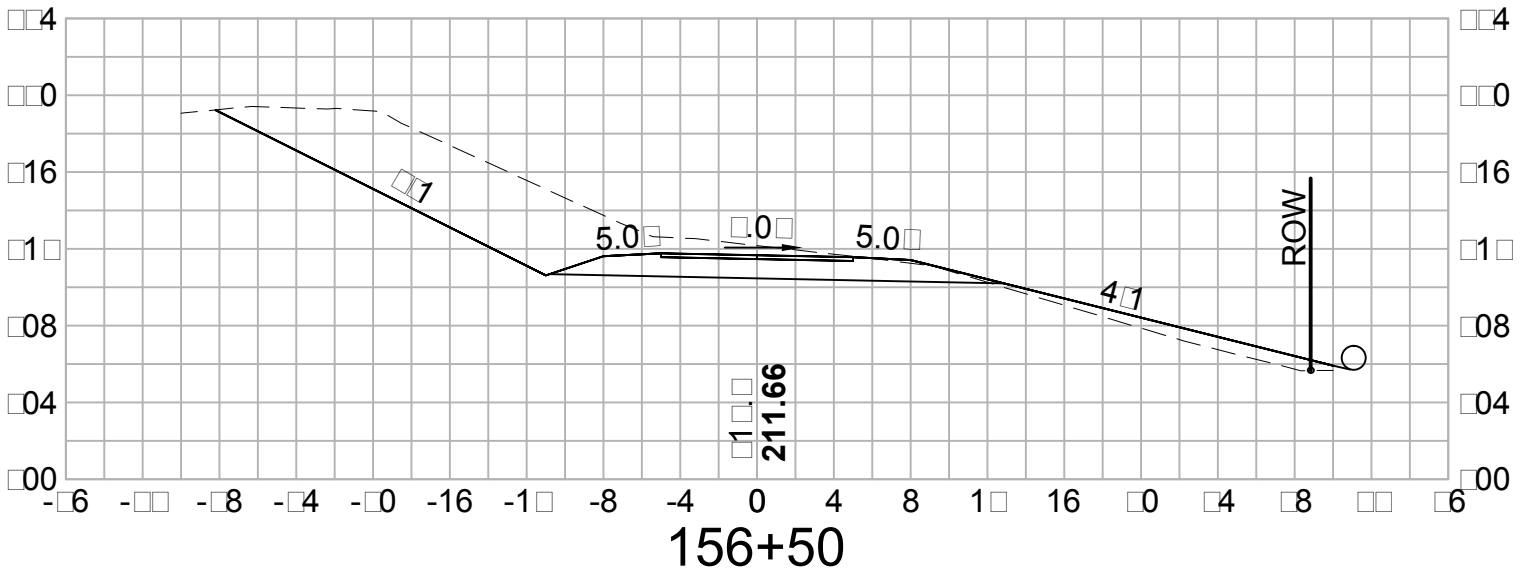
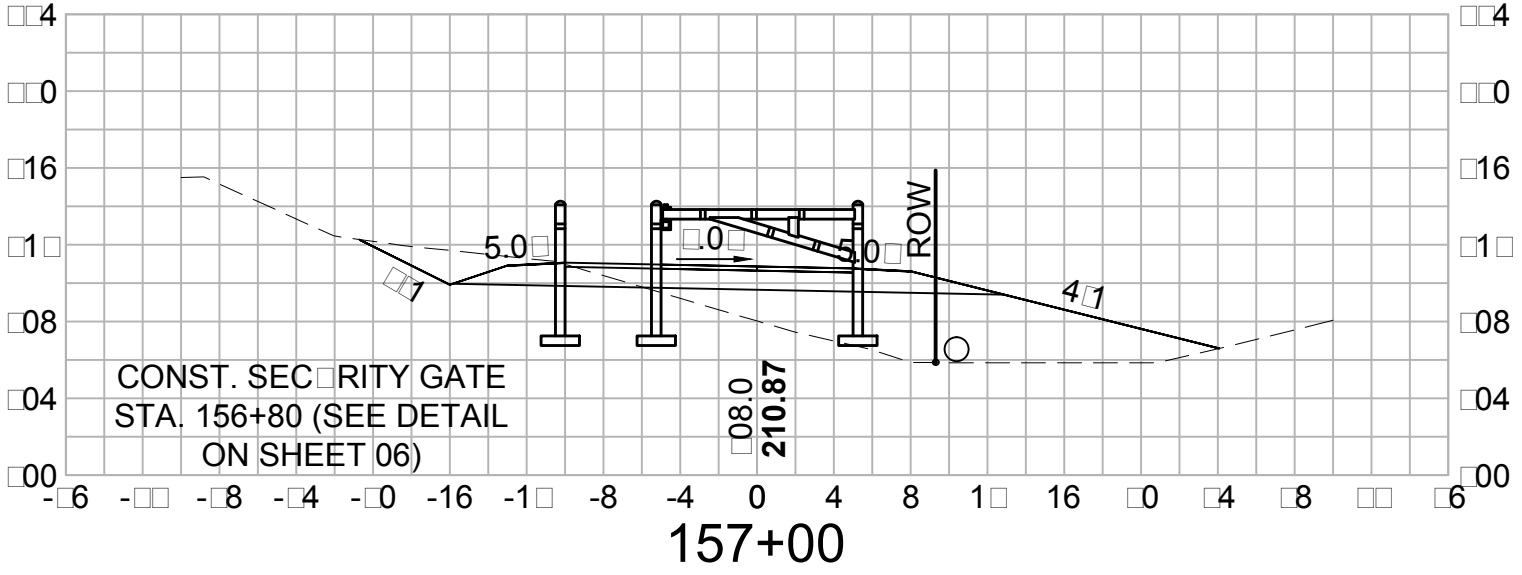
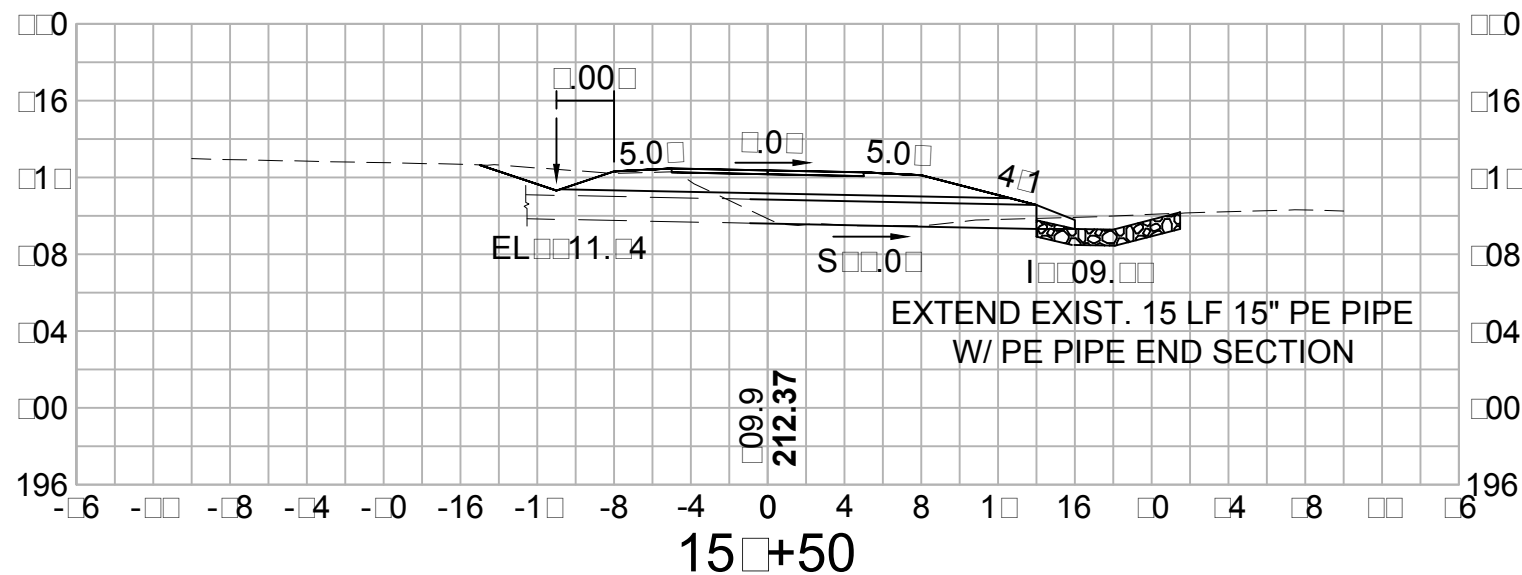
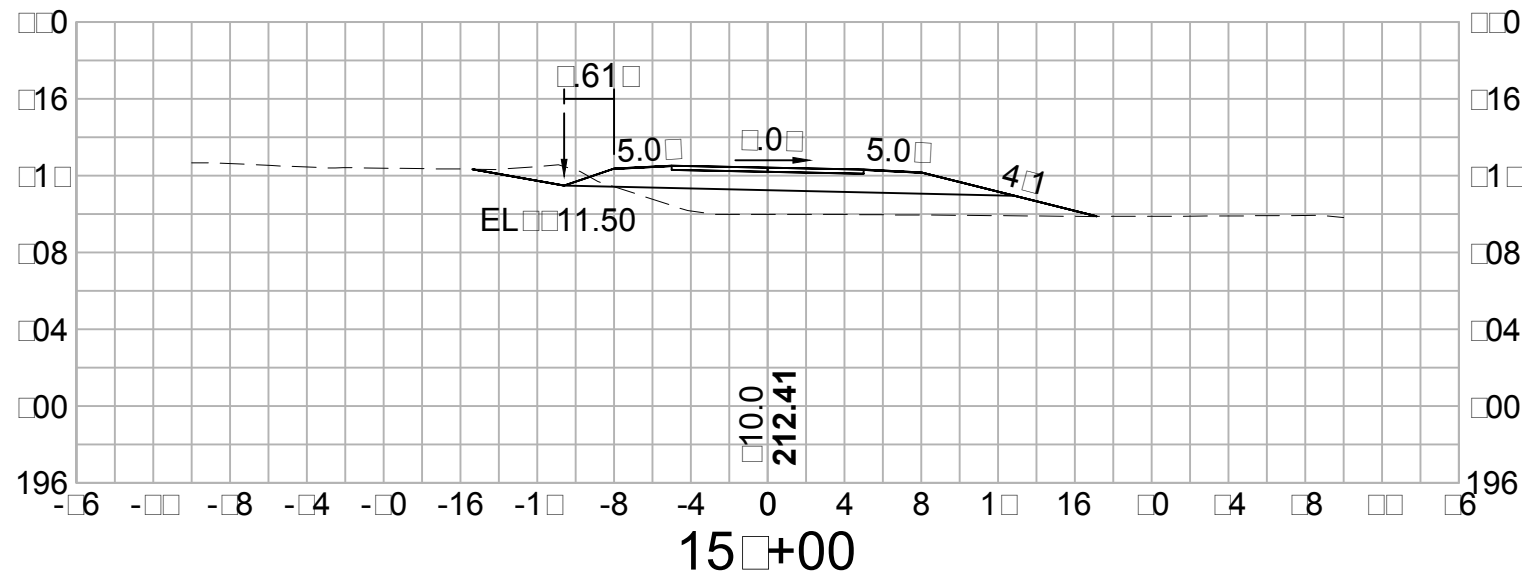
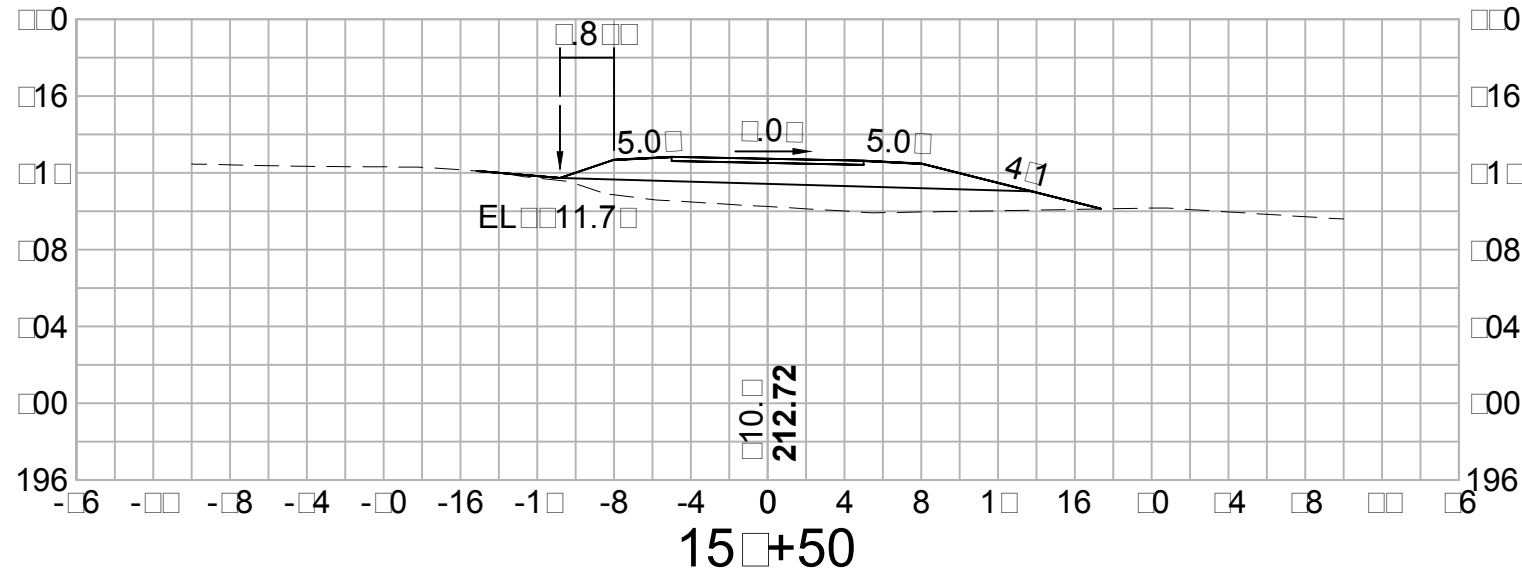
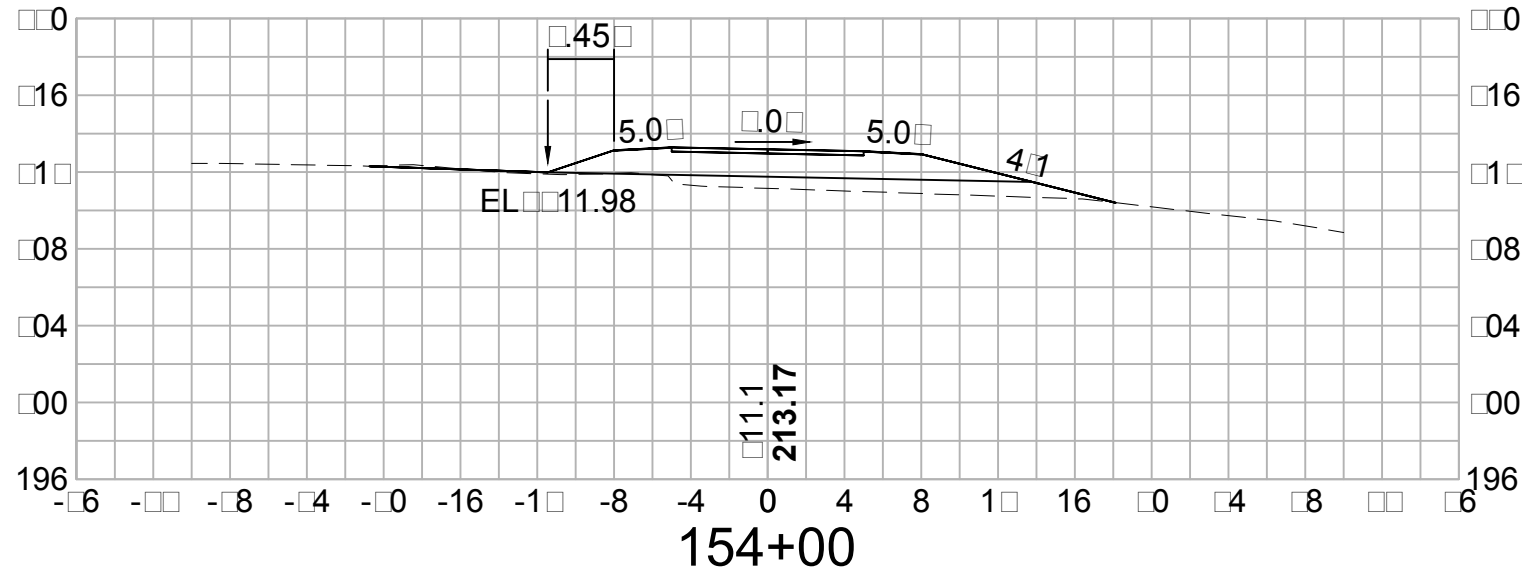
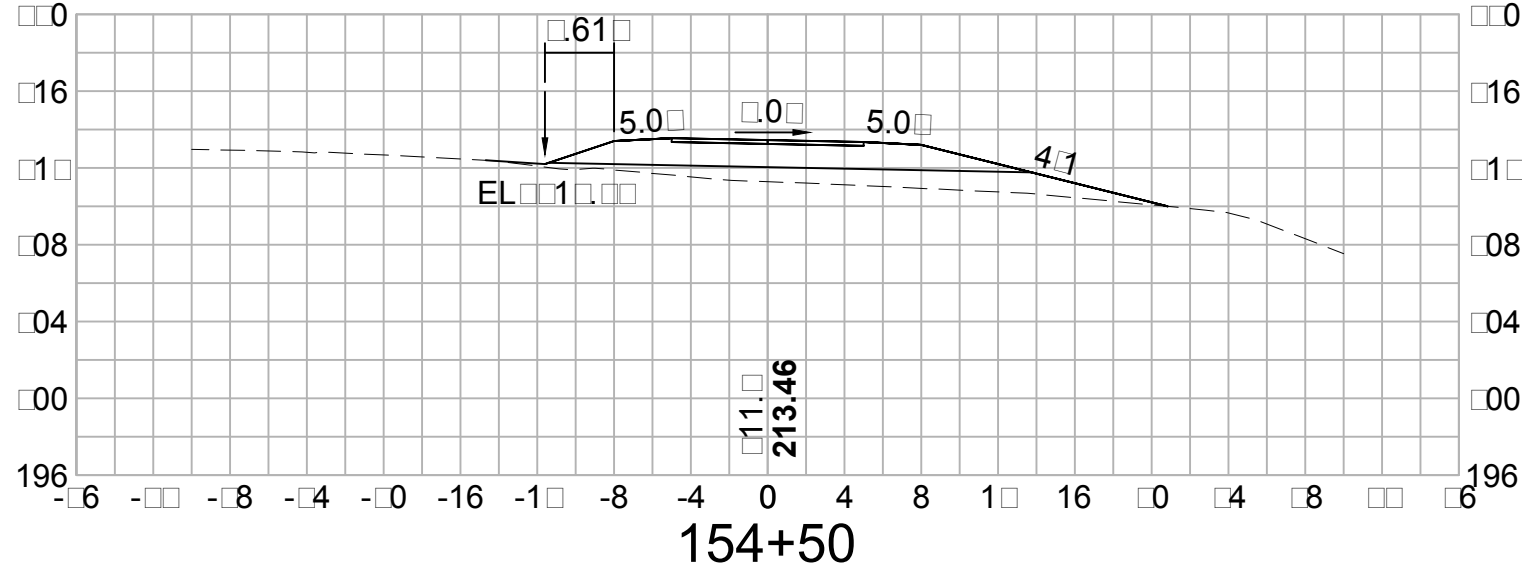
SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN	DATE	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				



 <i>Vanasse Hangen Brustlin, Inc.</i>		TOWN OF SALEM, NEW HAMPSHIRE			
		SALEM-WINDHAM PED/BIKE TRAIL			
		CROSS SECTIONS			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	—	36	58

REVISIONS AFTER PROPOSAL		DESCRIPTION	
		STATION	
NUMBER	DATE	STATION	

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	37	58

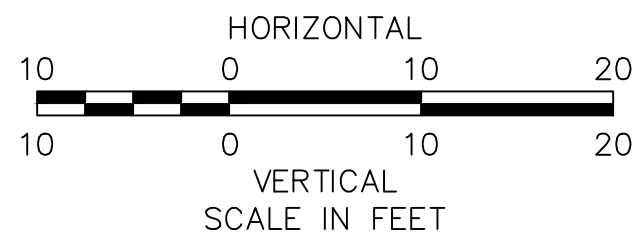
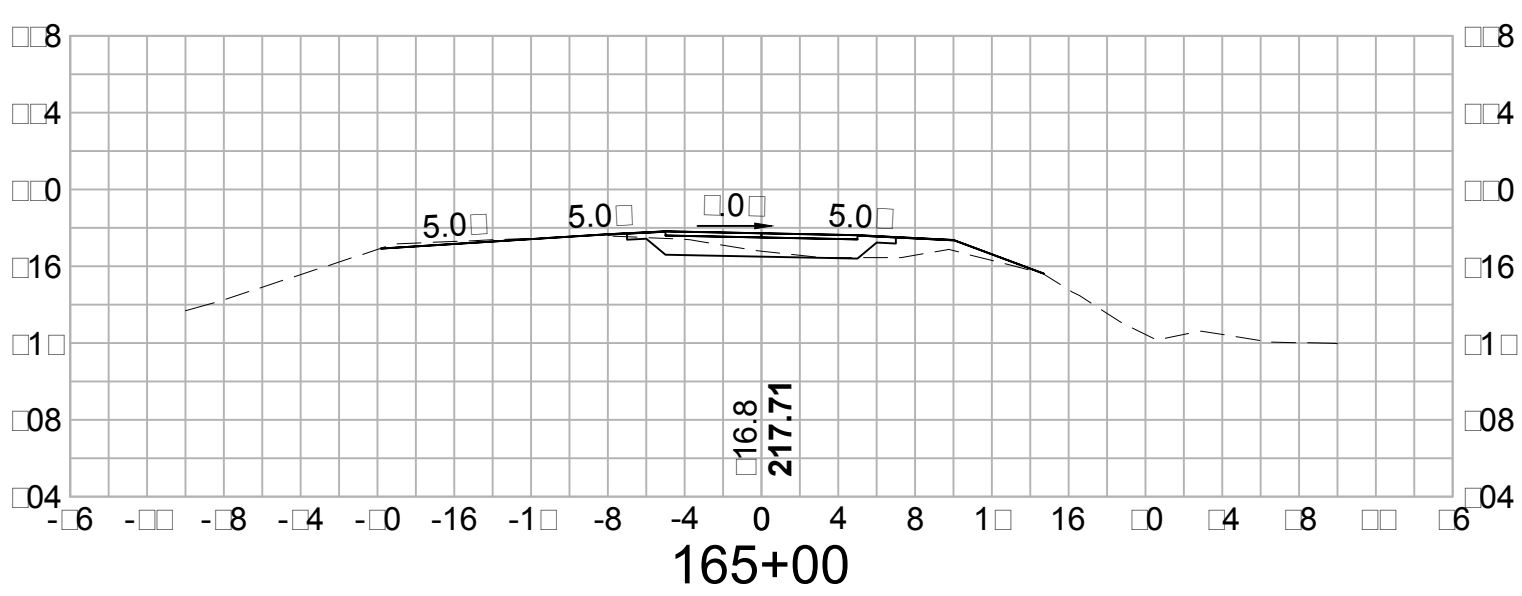
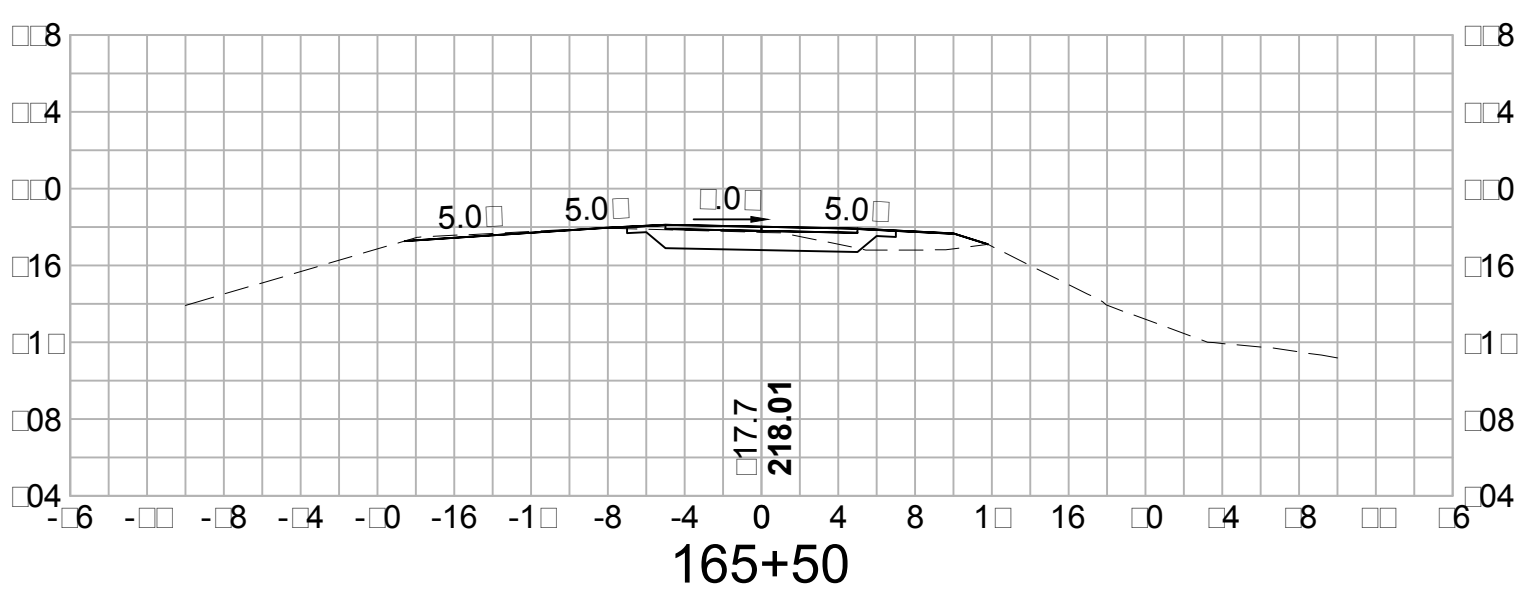
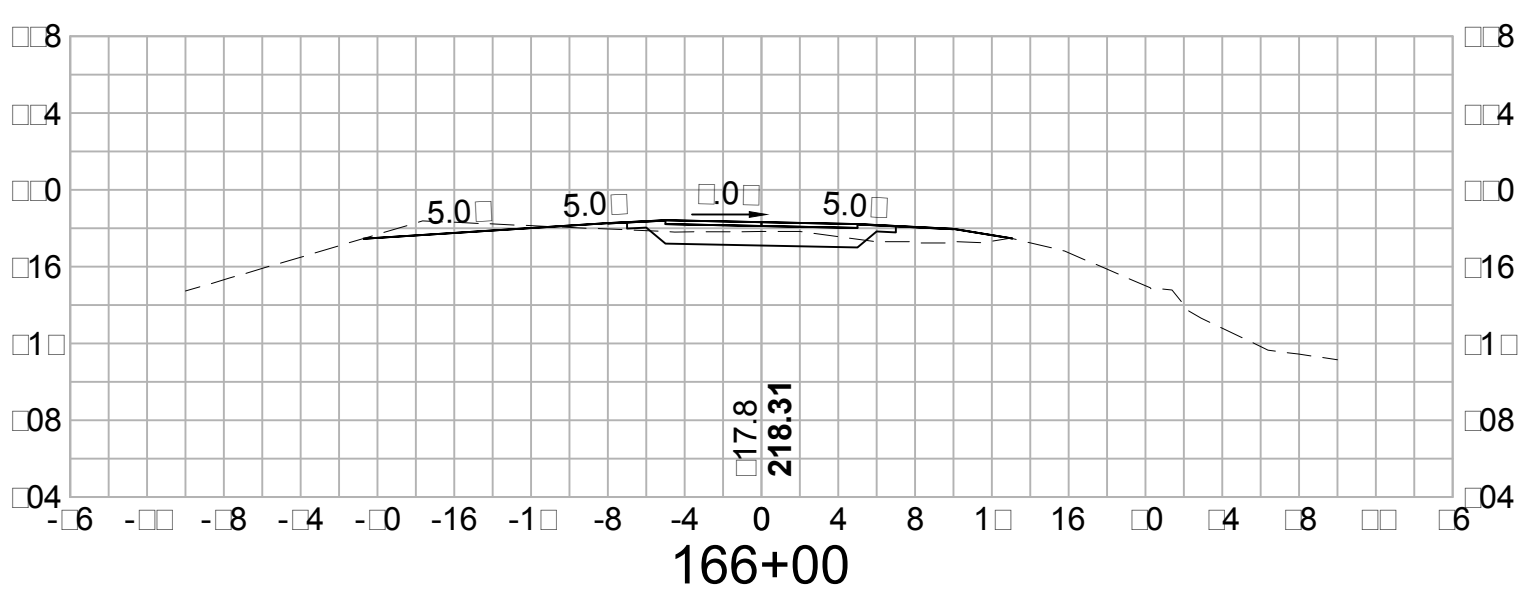
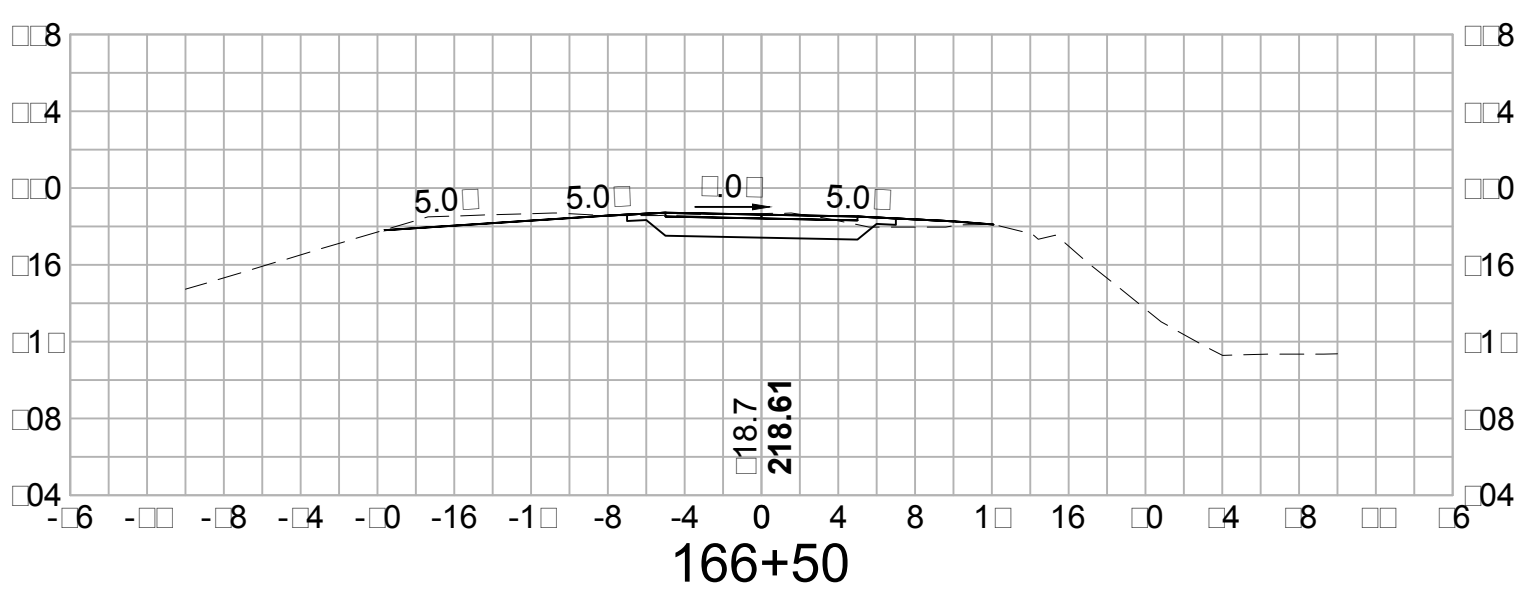
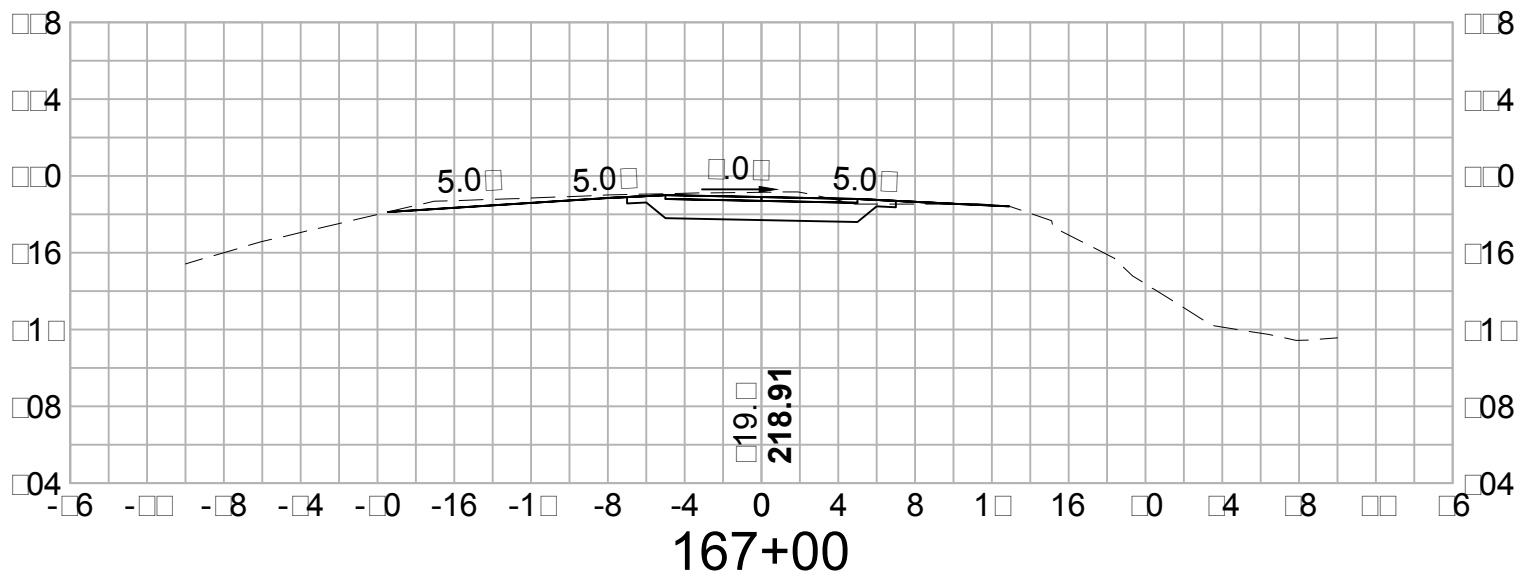
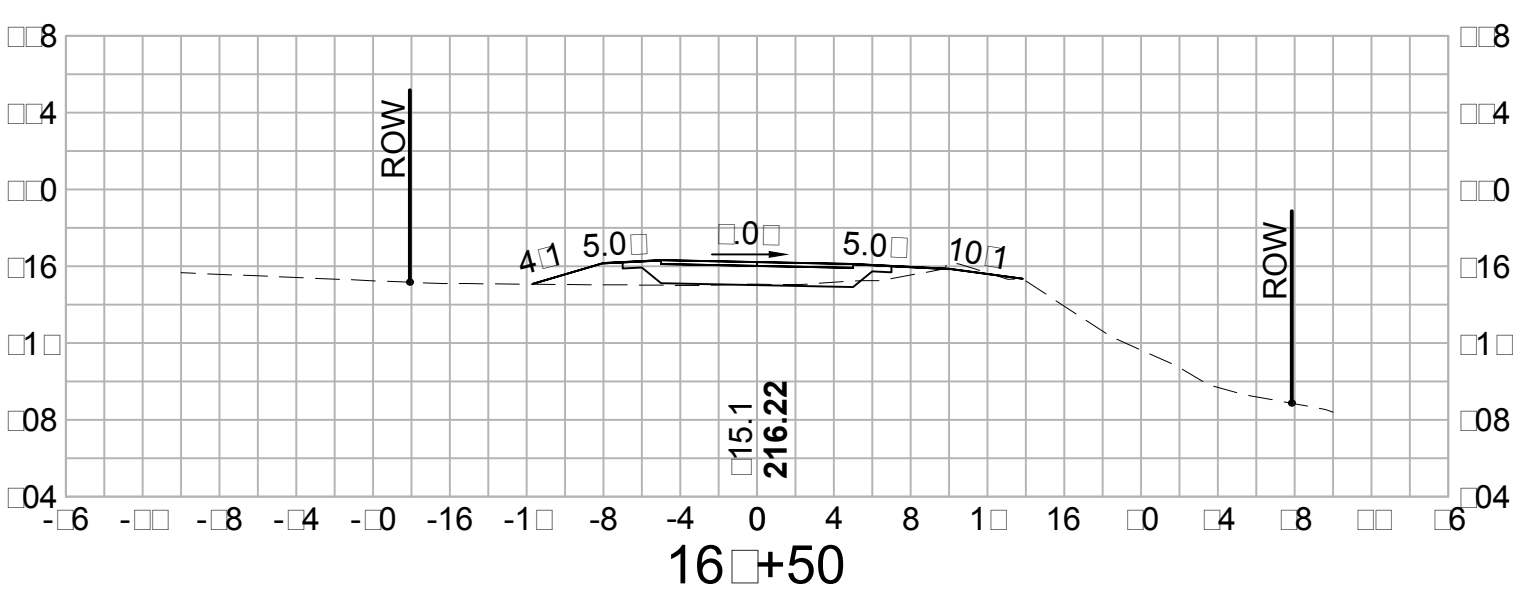
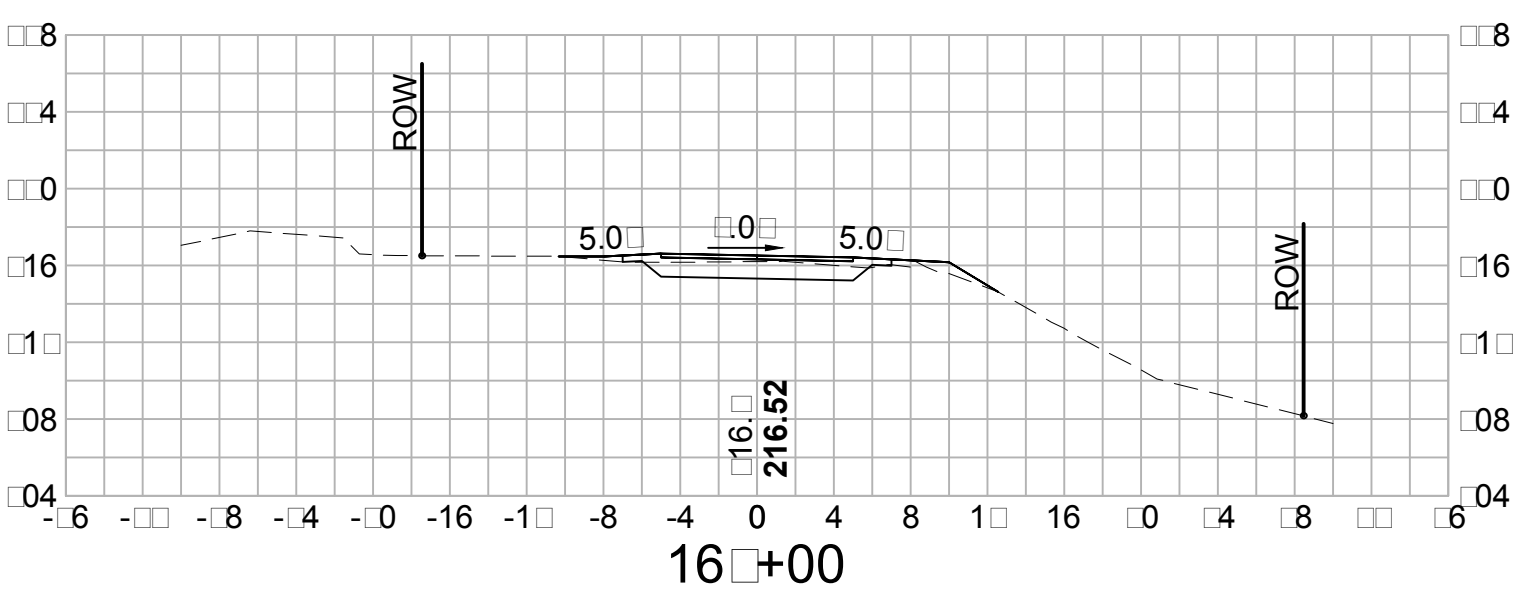
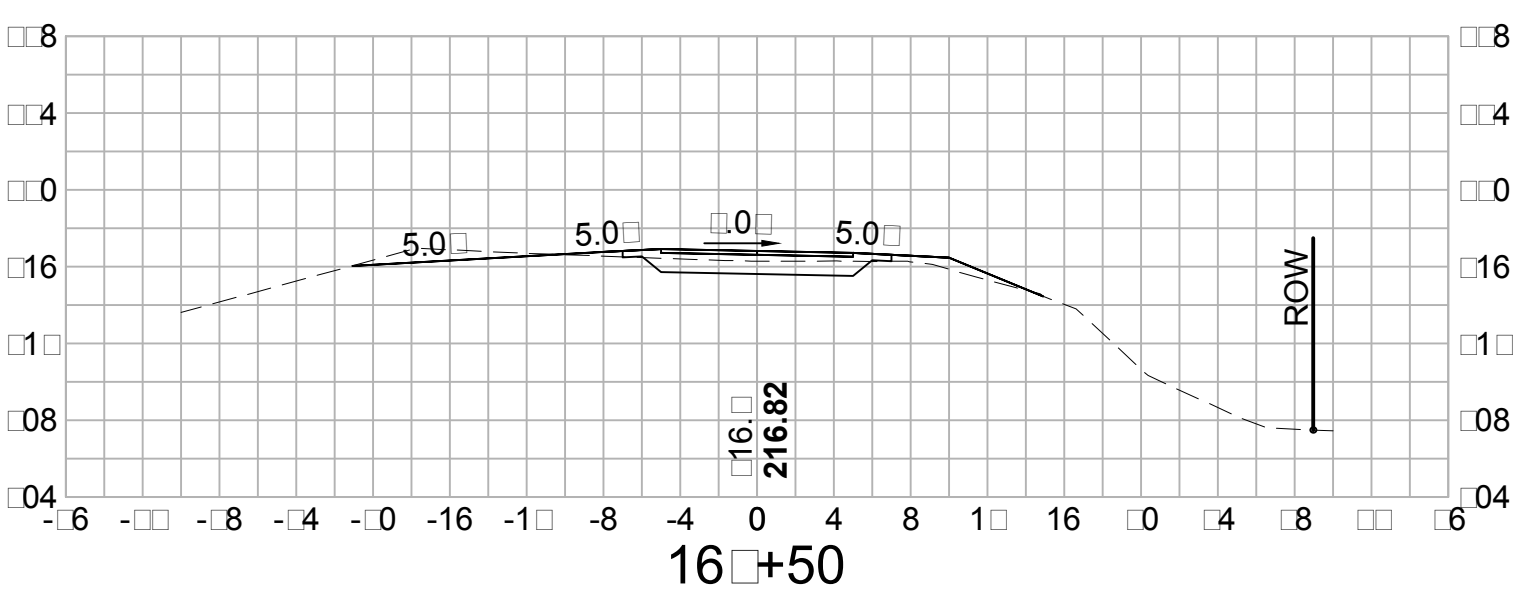
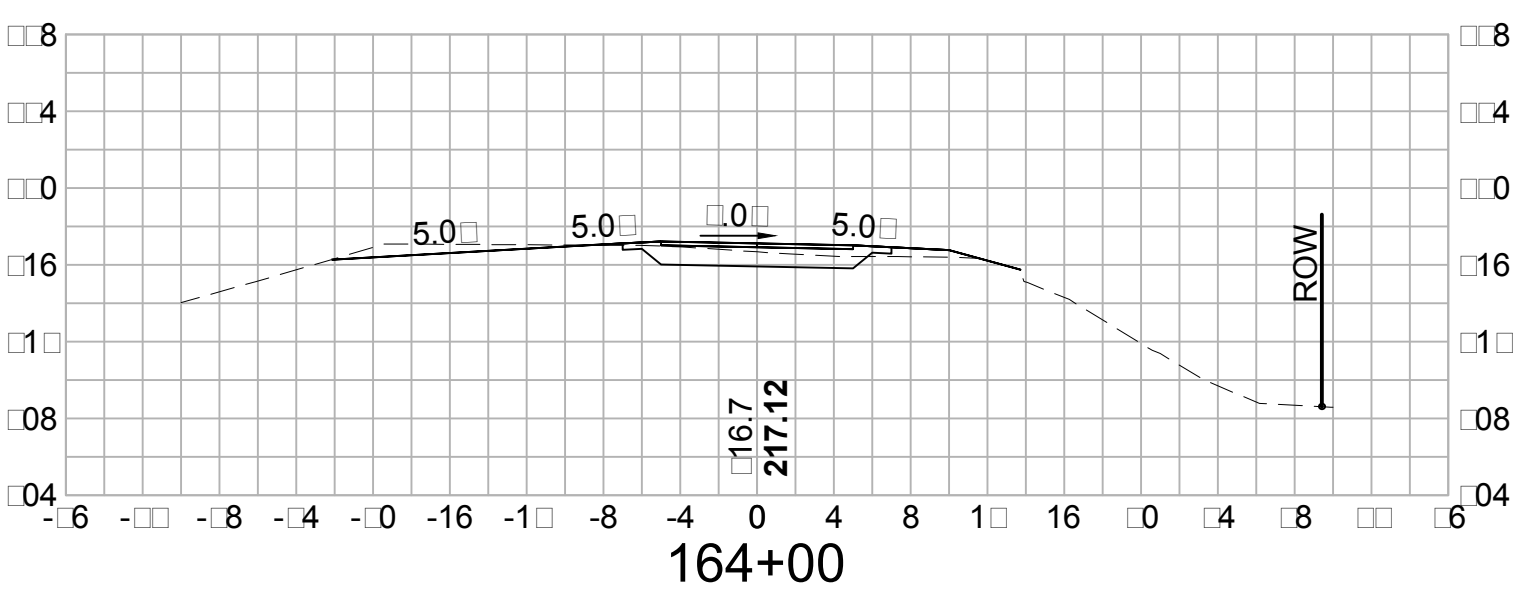
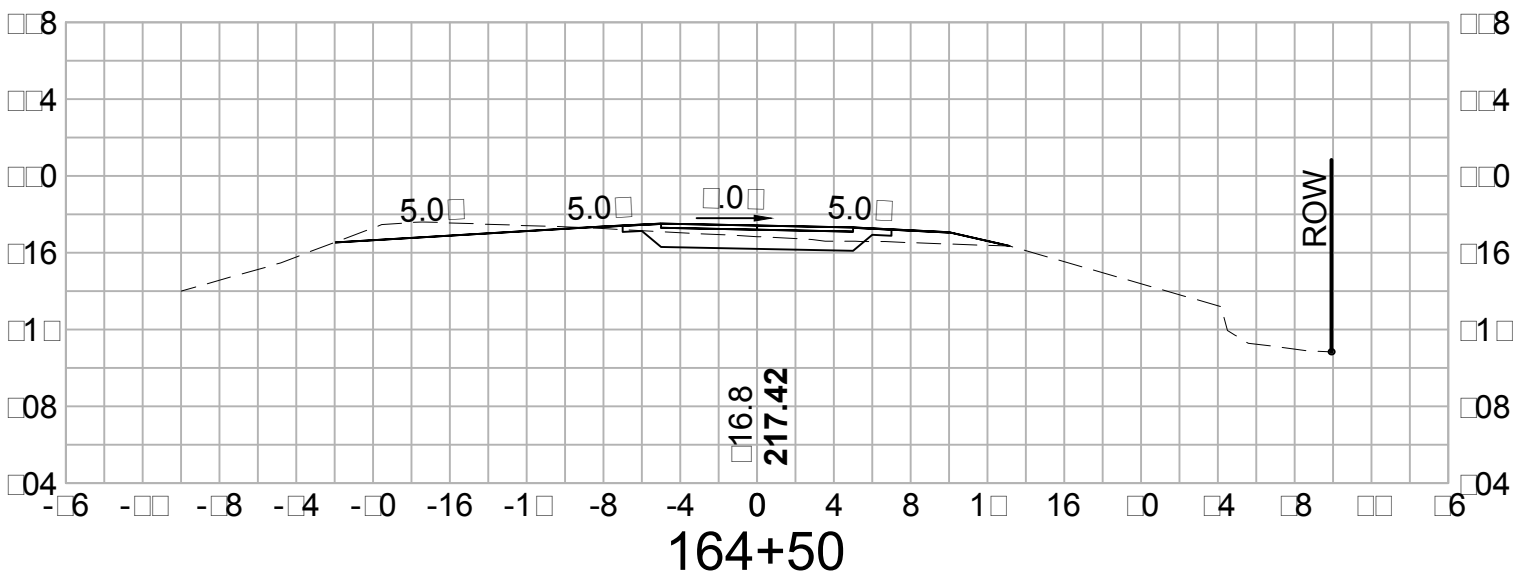
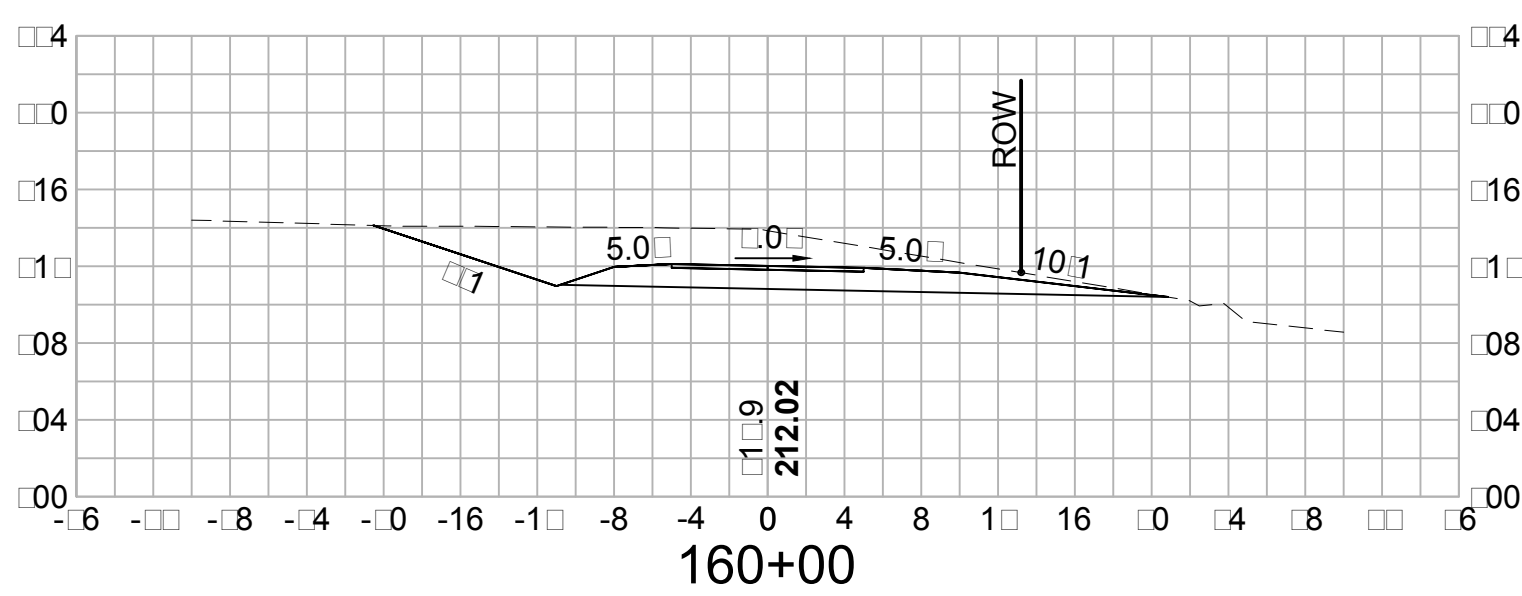
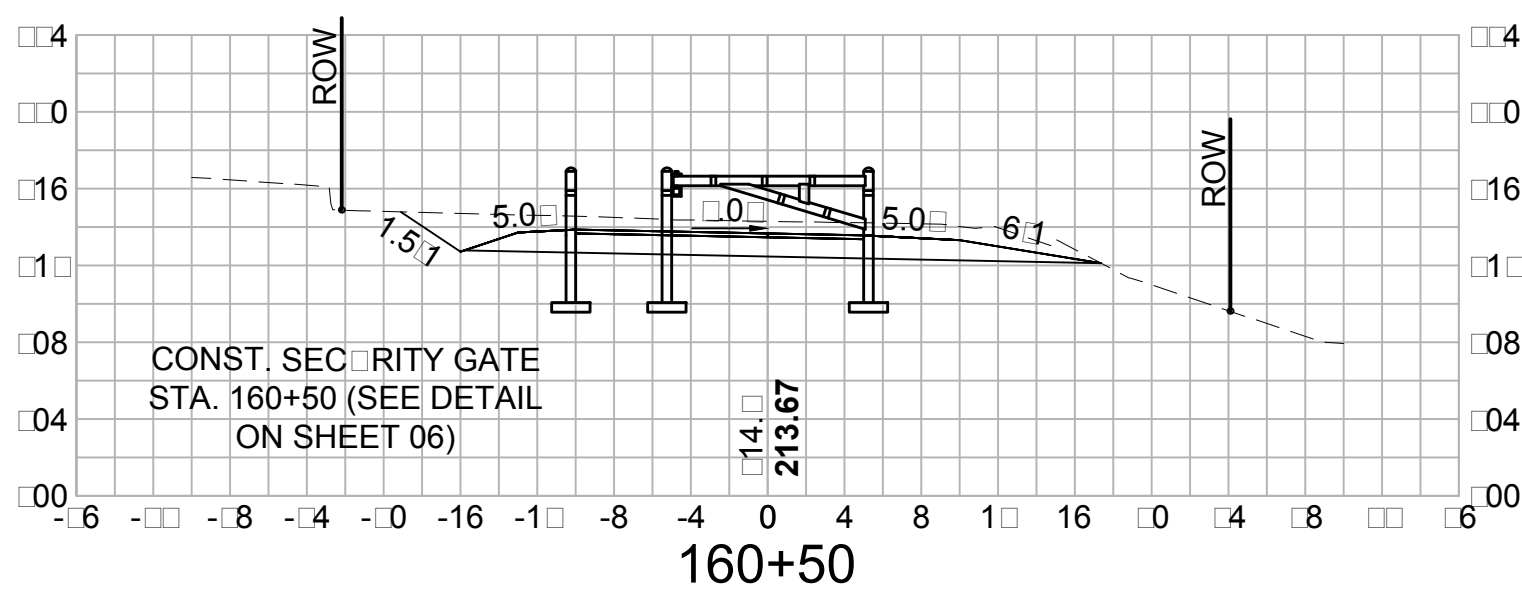
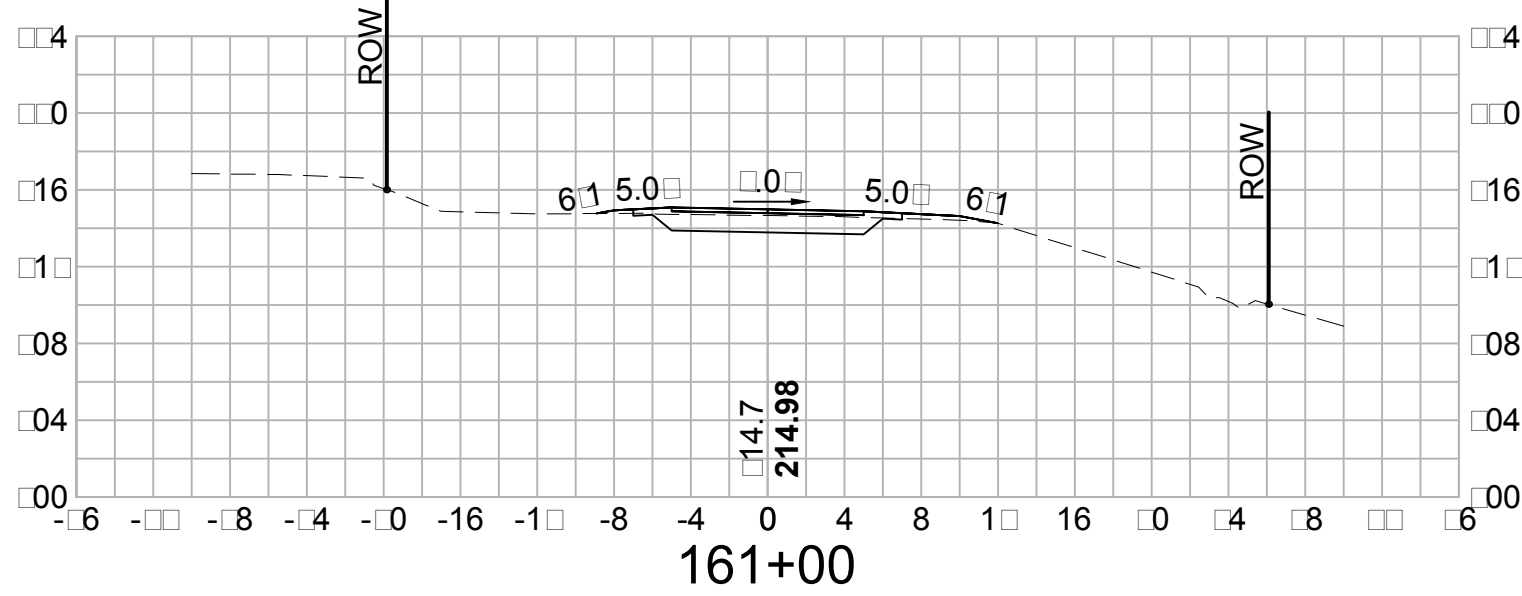
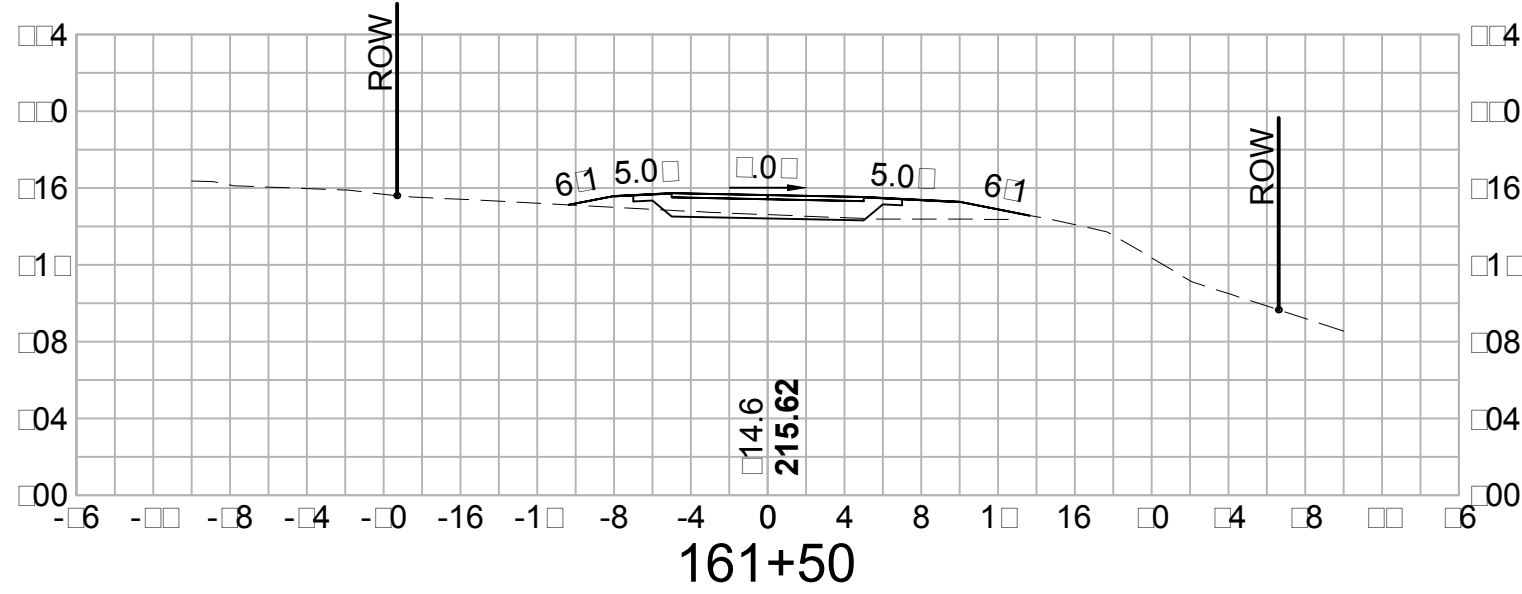
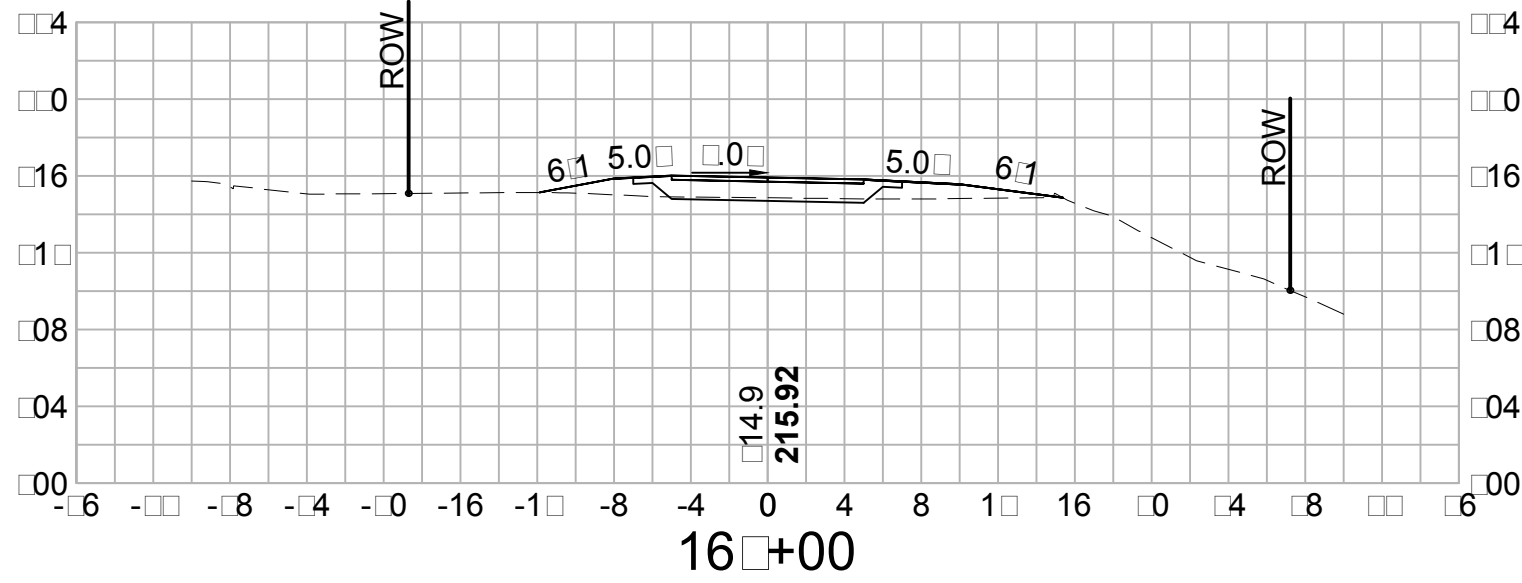
TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

REVISIONS AFTER PROPOSAL				DESCRIPTION	
NUMBER	DATE	STATION	STATION		

SDR PROCESSED	DATE	DATE	DATE	DATE
NEW DESIGN				
SHEET CHECKED				
AS BUILT DETAILS				



VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	38	58

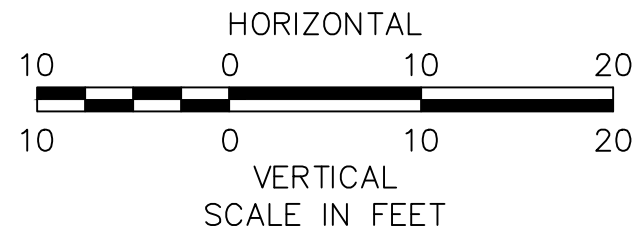
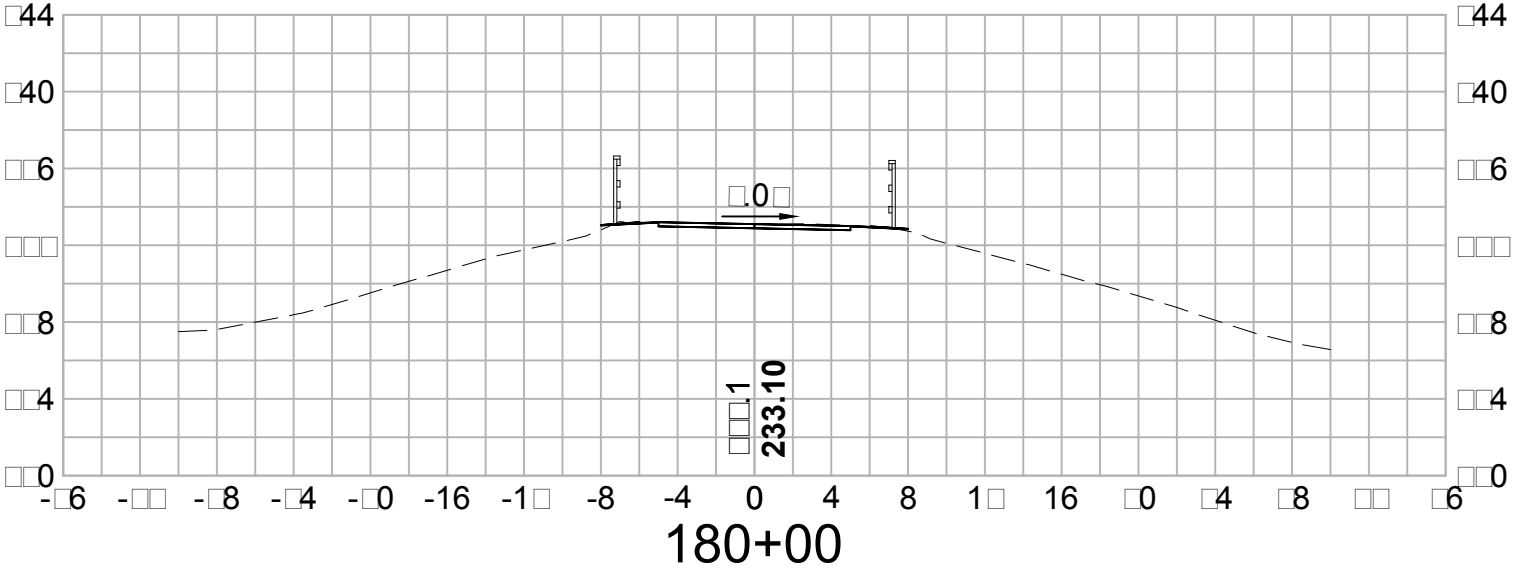
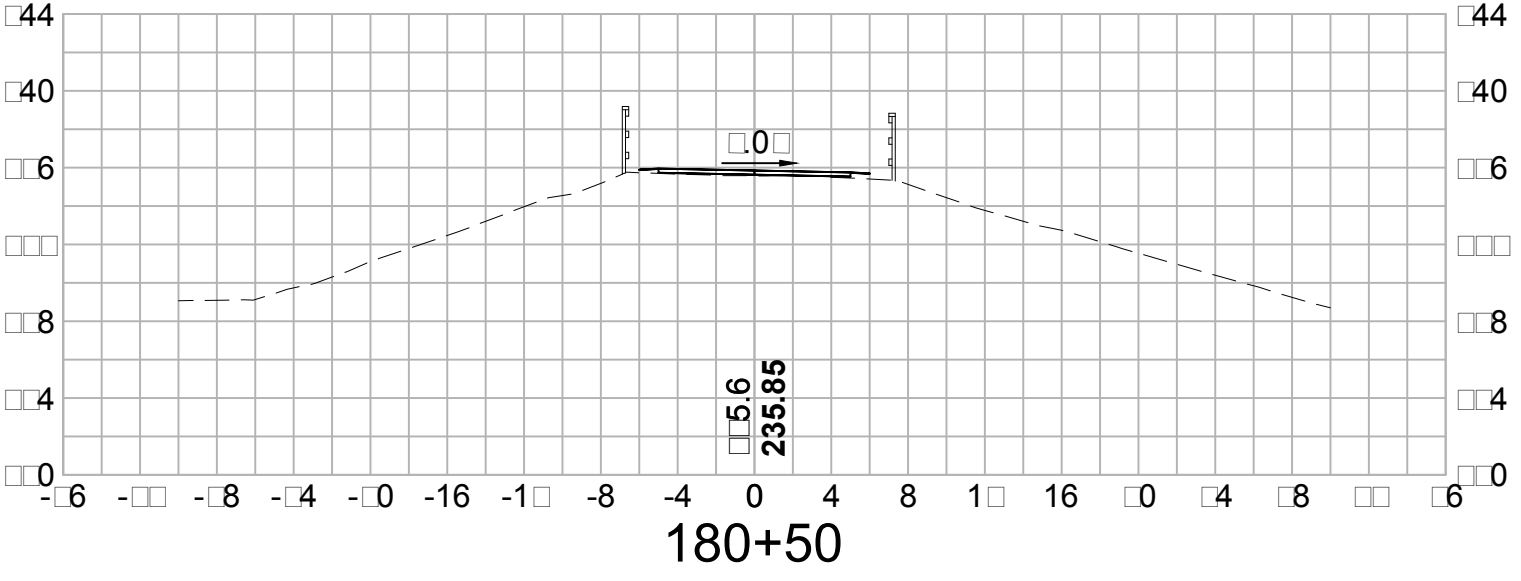
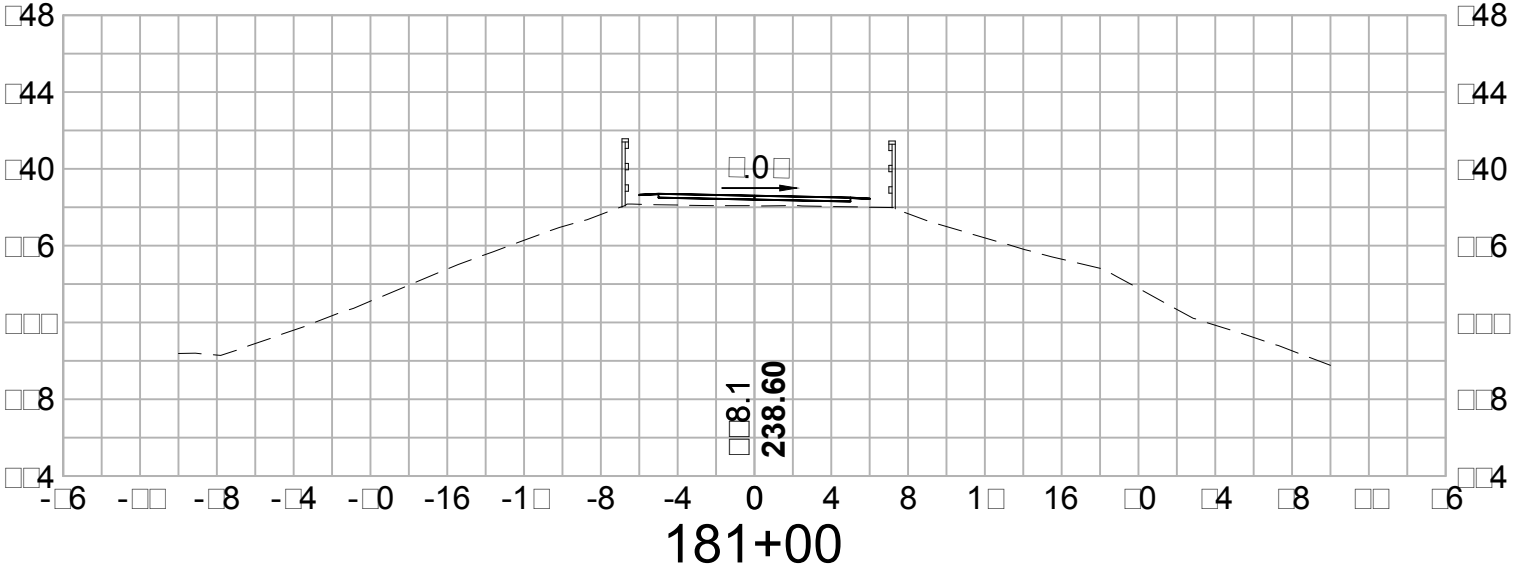
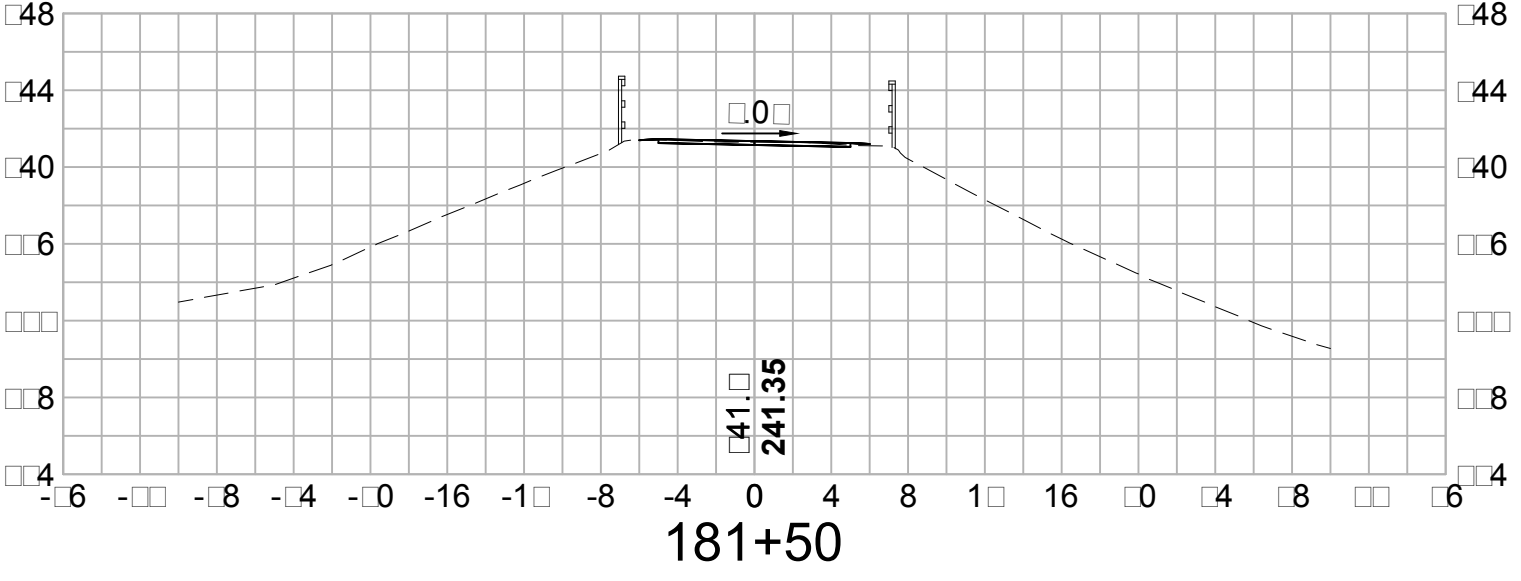
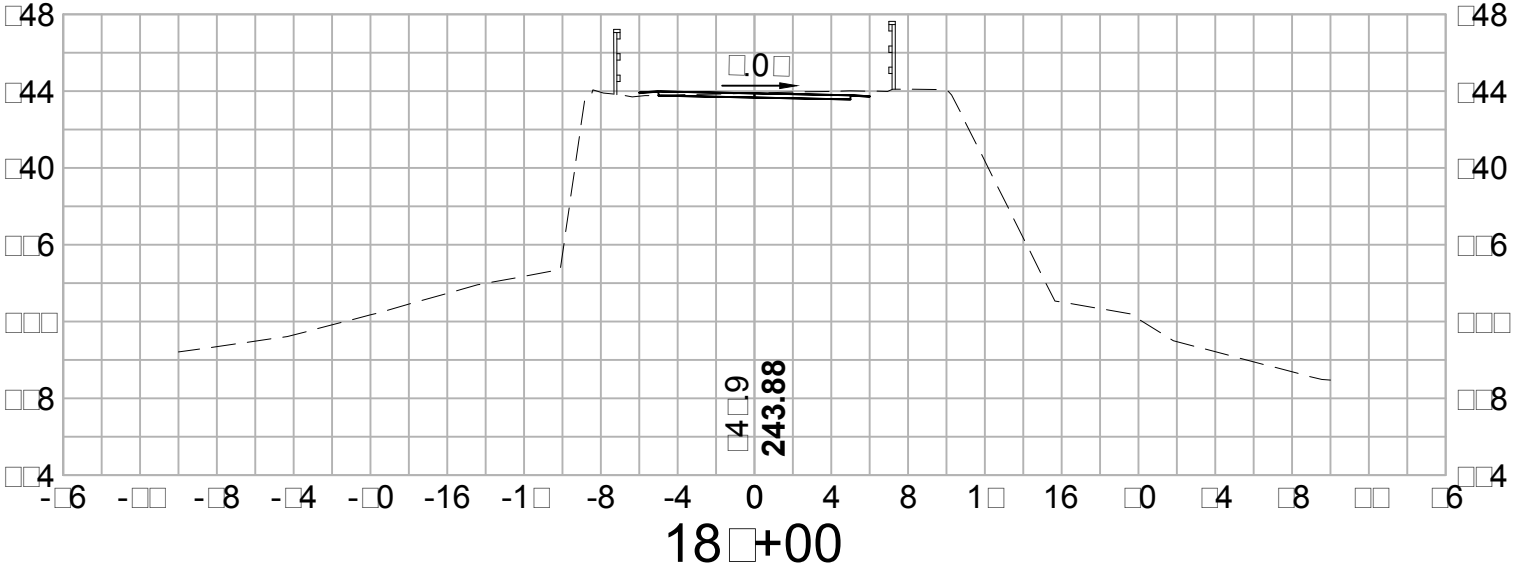
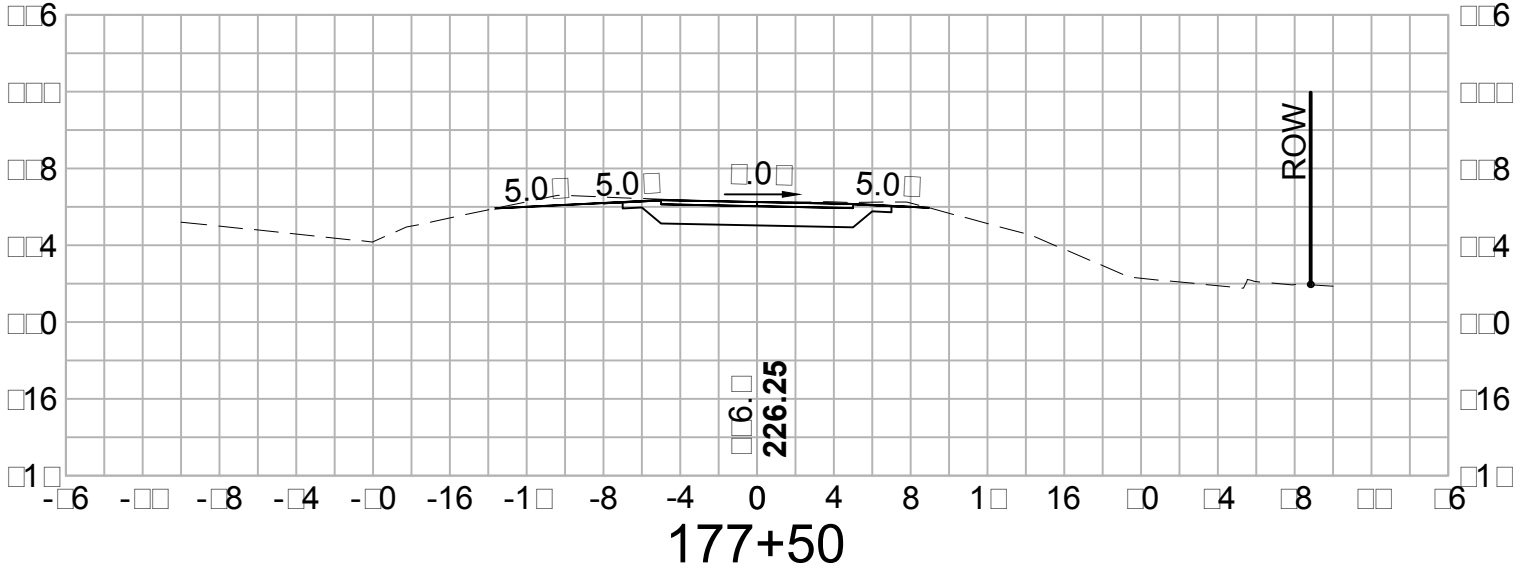
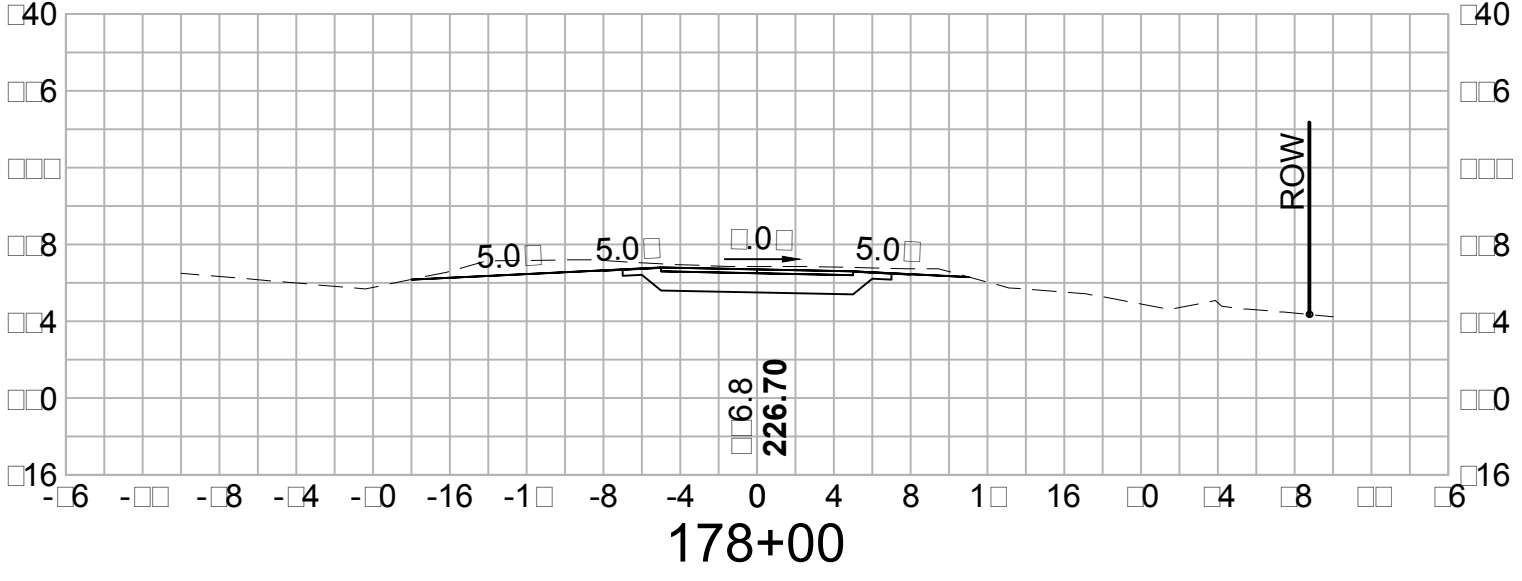
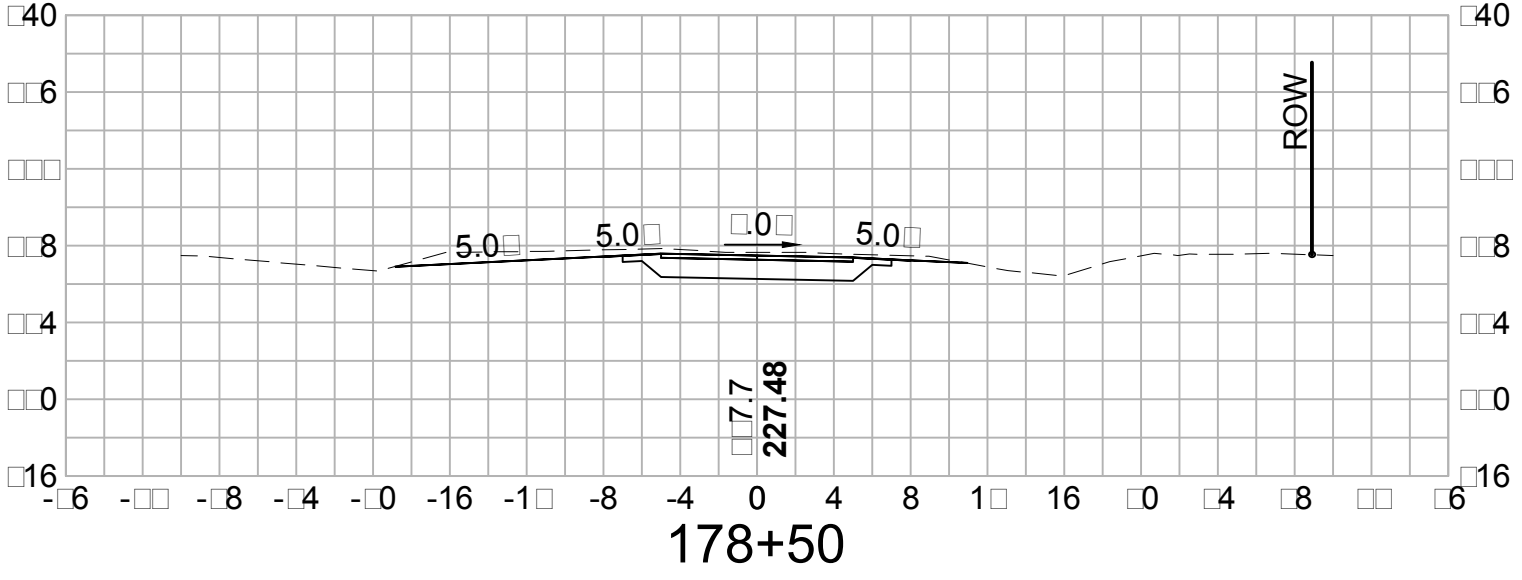
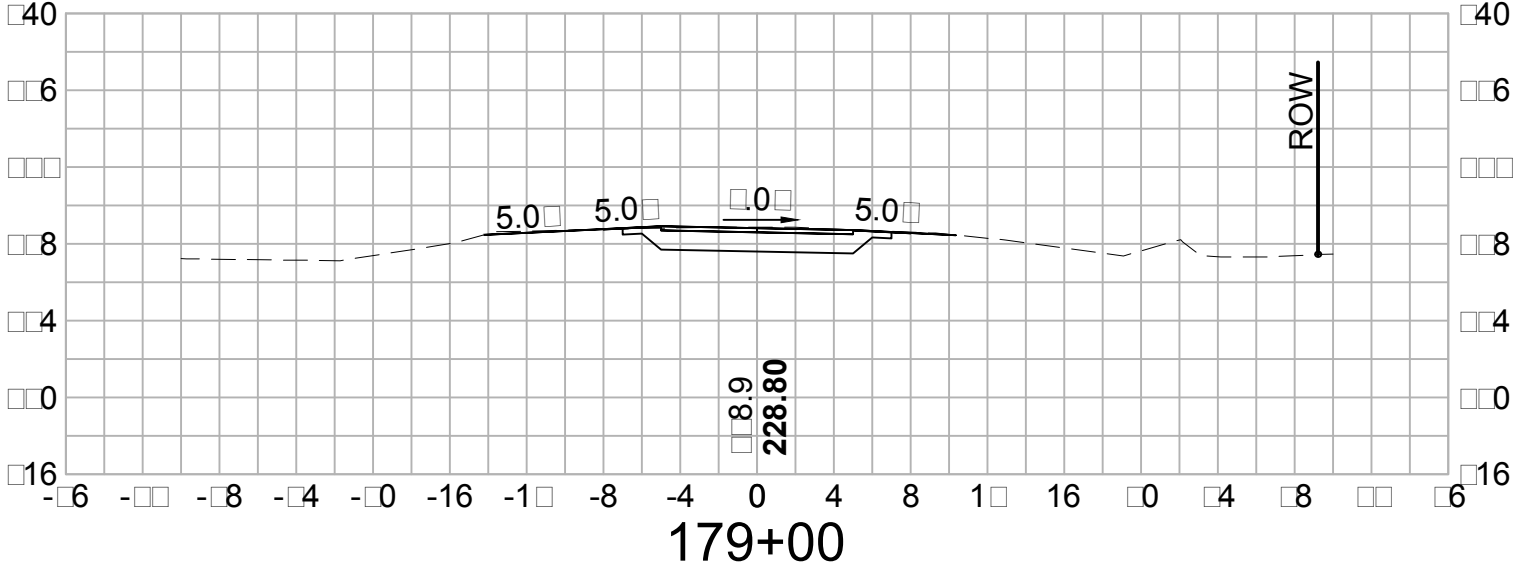
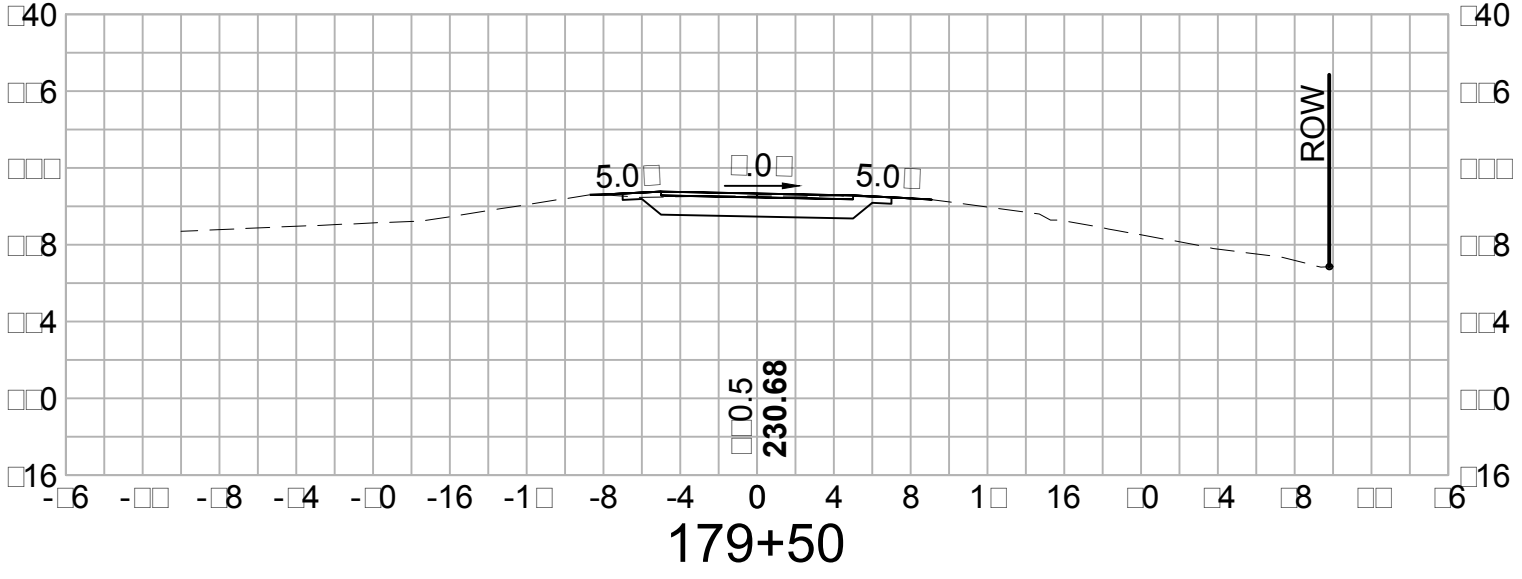
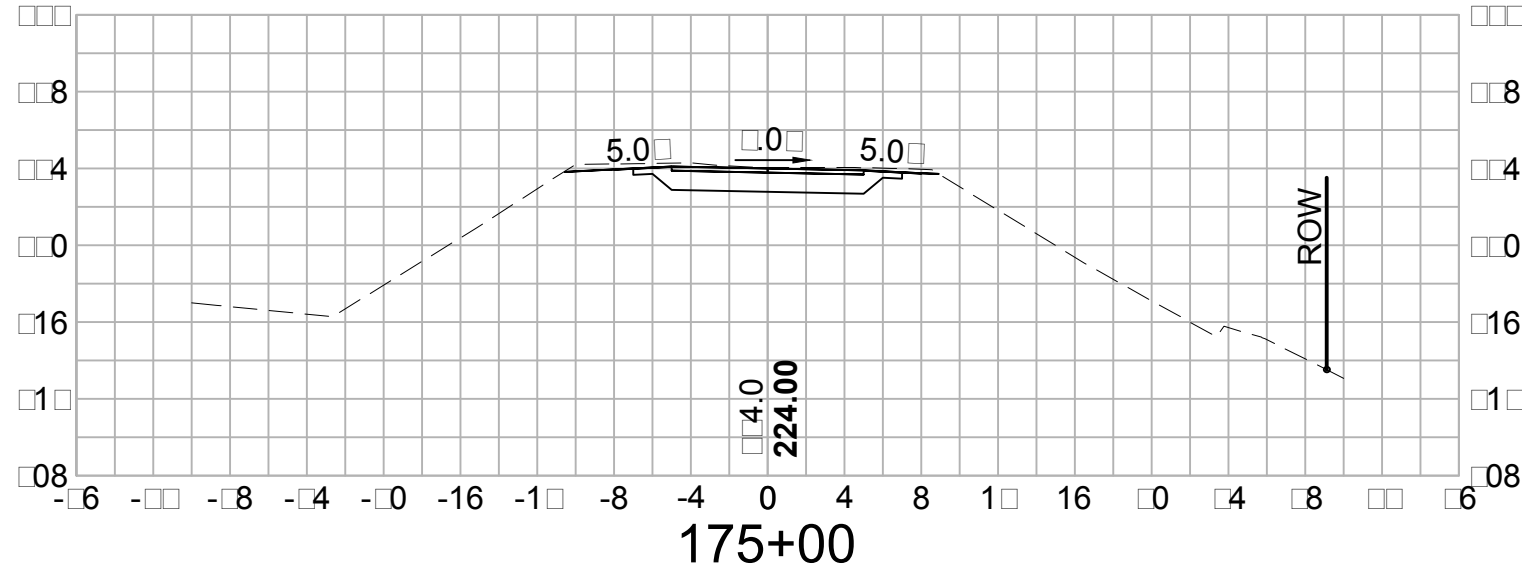
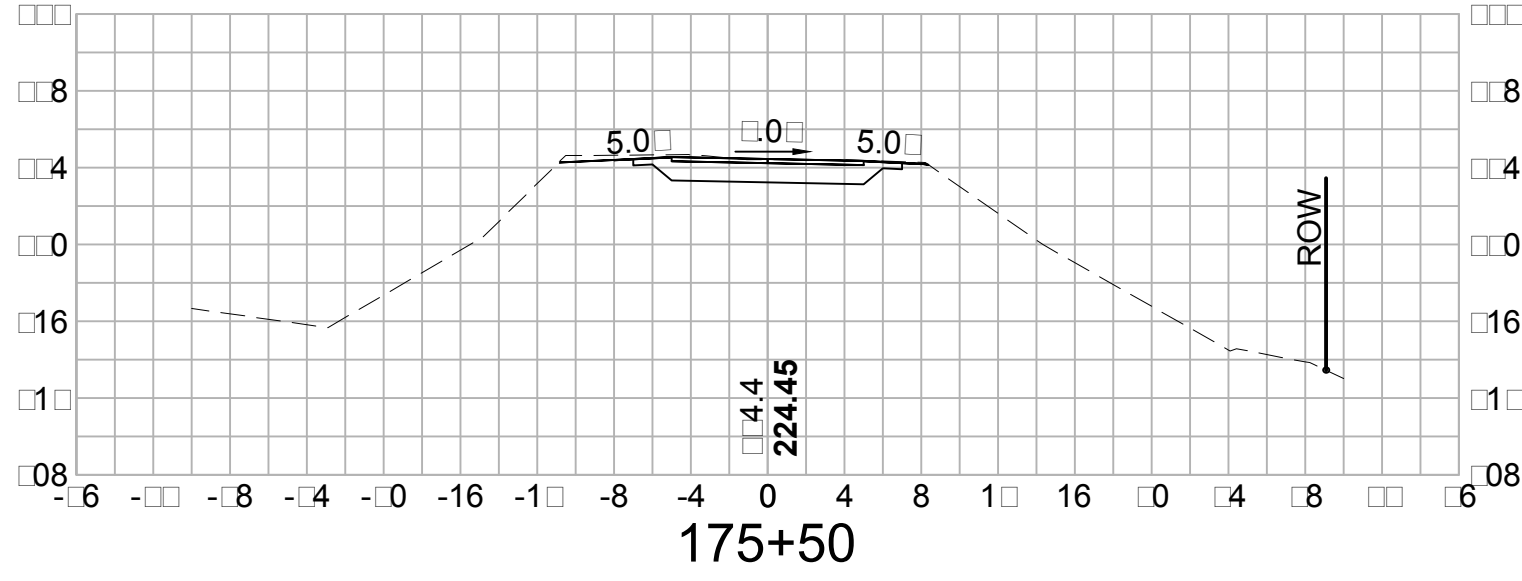
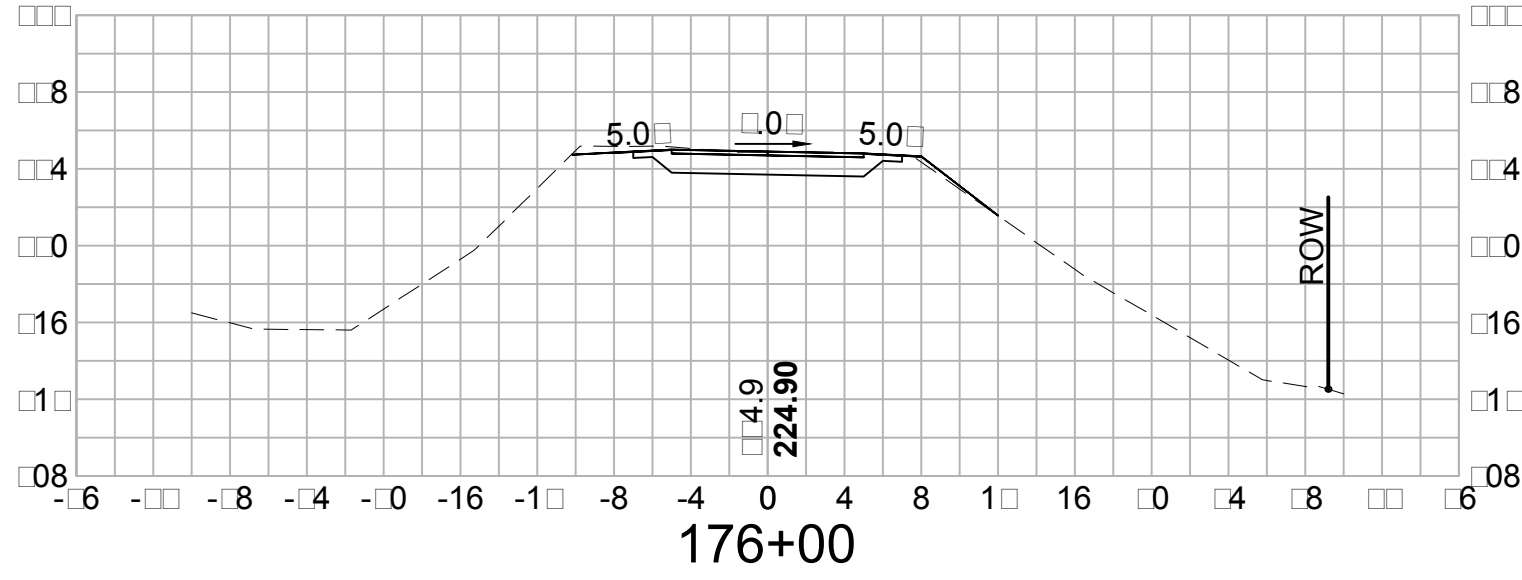
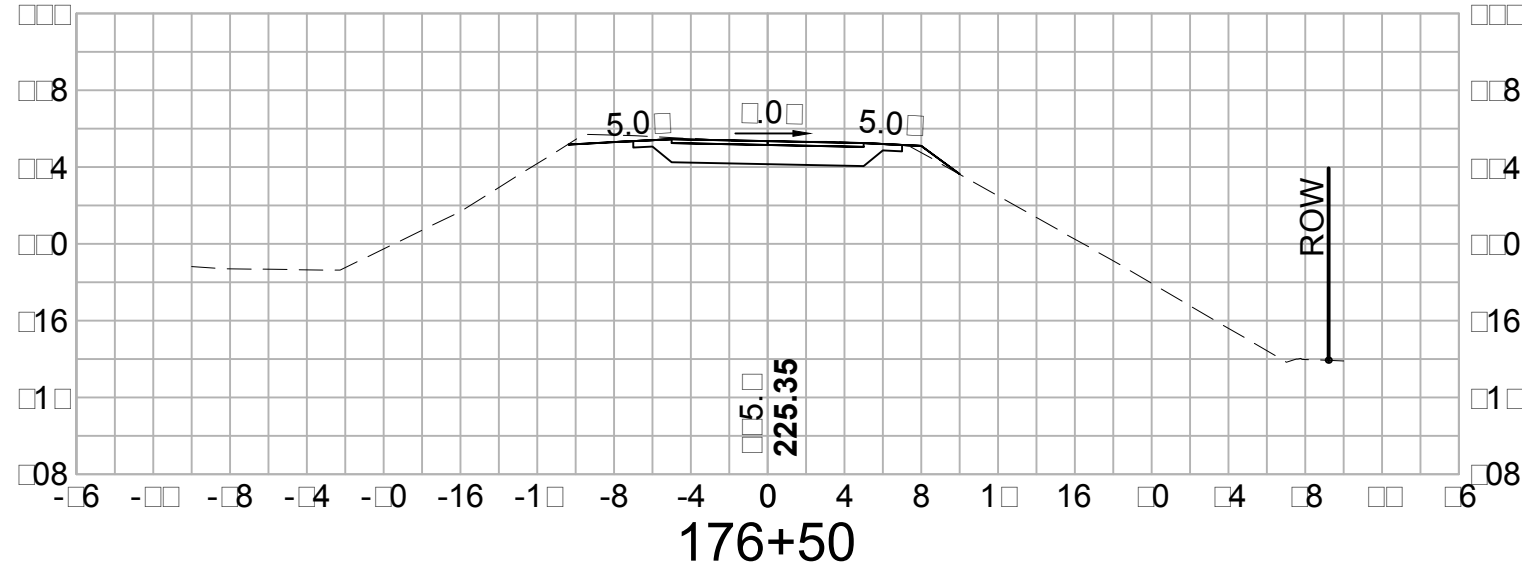
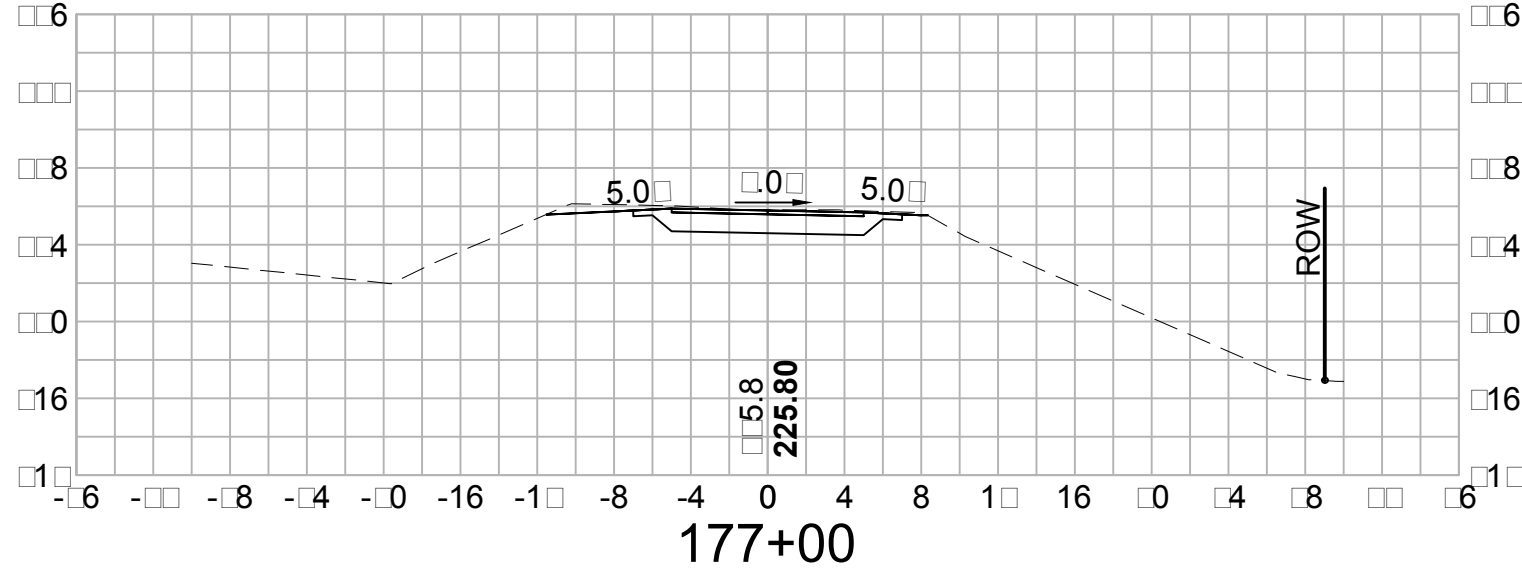
TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

REVISIONS AFTER PROPOSAL				DESCRIPTION	
STATION		STATION		STATION	
DATE		DATE		DATE	
NUMBER		NUMBER		NUMBER	

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



VHB Vanasse Hangen Brustlin, Inc.

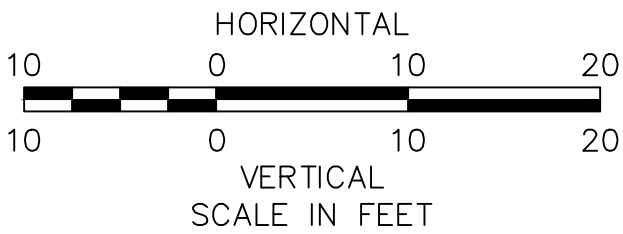
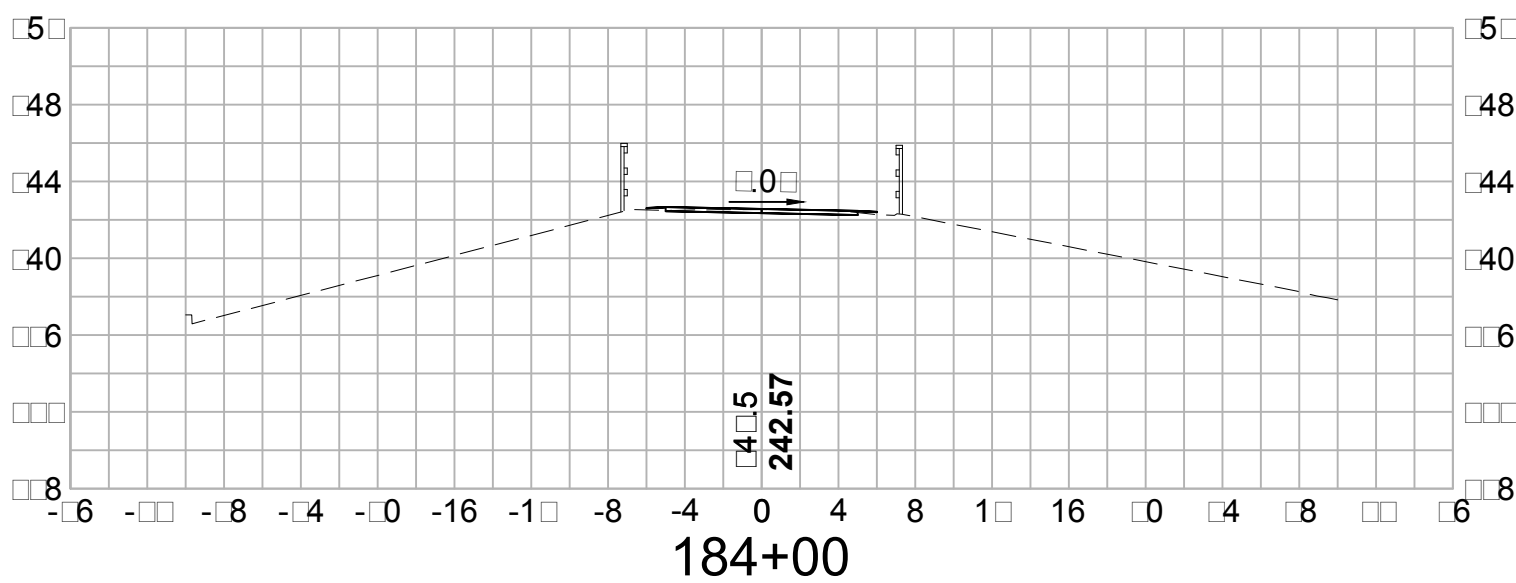
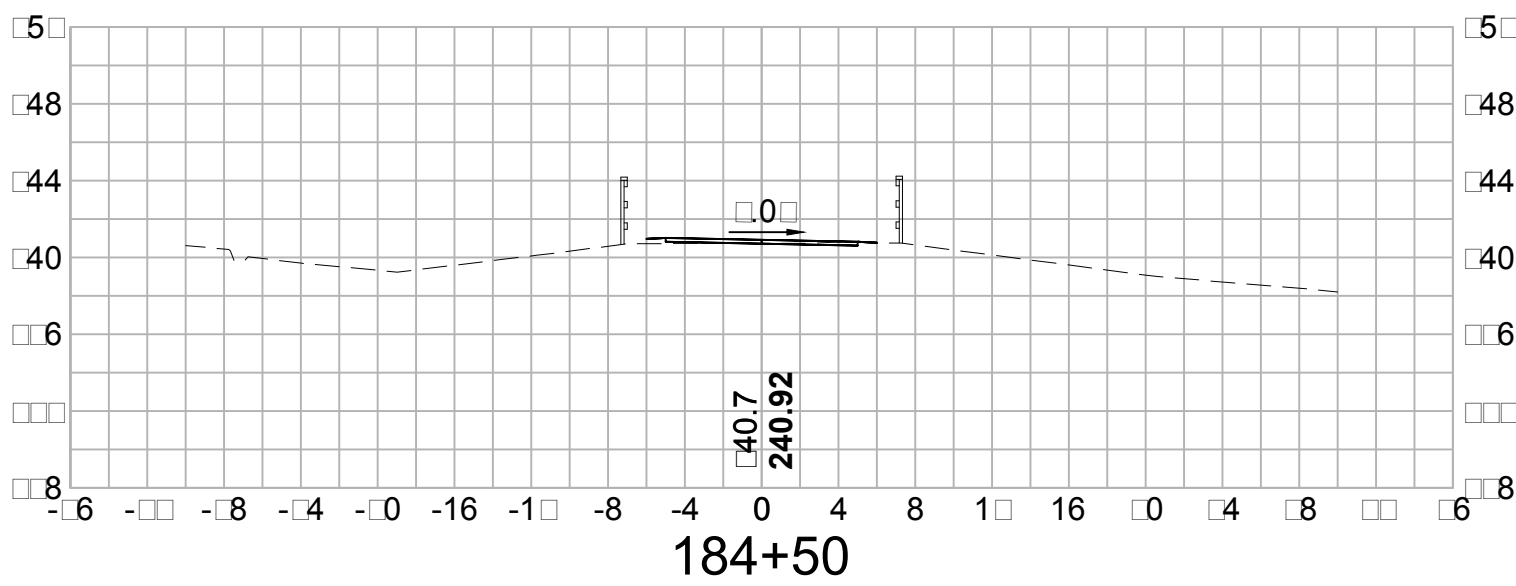
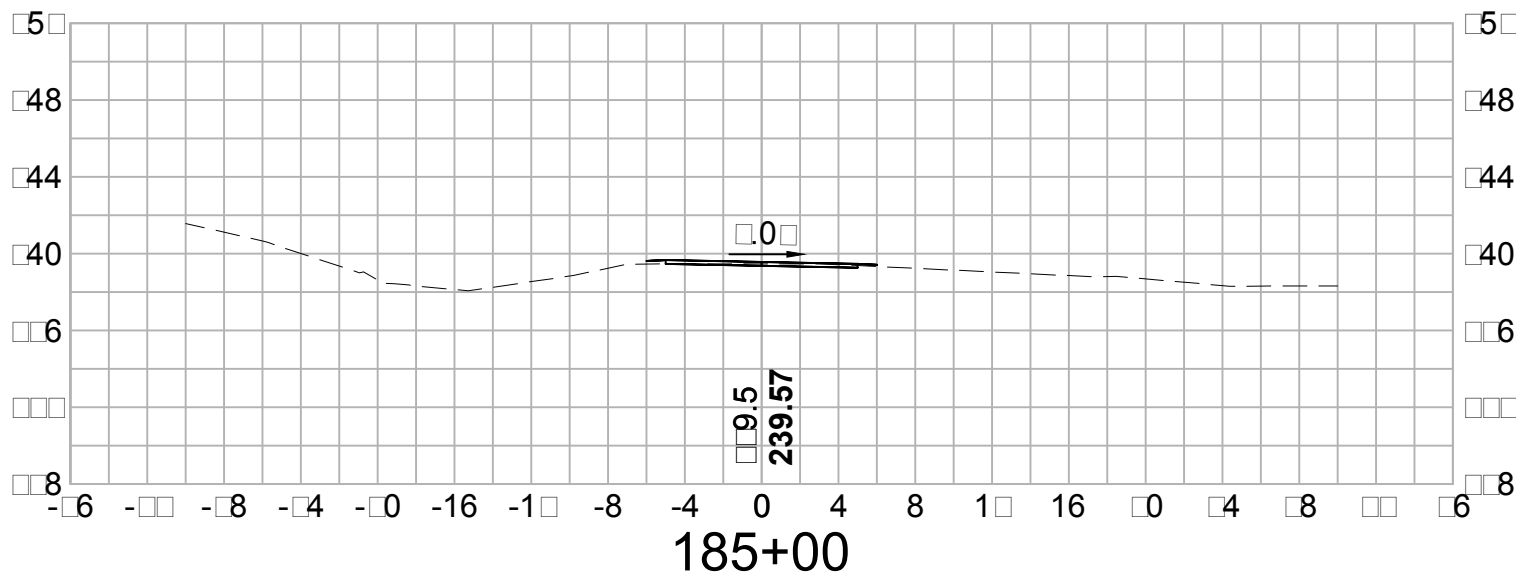
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-XS	-	40	58

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

CROSS SECTIONS

SDR PROCESSED NEW DESIGN SHEET CHECKED AS BUILT DETAILS	REVISIONS AFTER PROPOSAL			
	NUMBER	DATE	STATION	DESCRIPTION
DATE				
DATE				
DATE				
DATE				

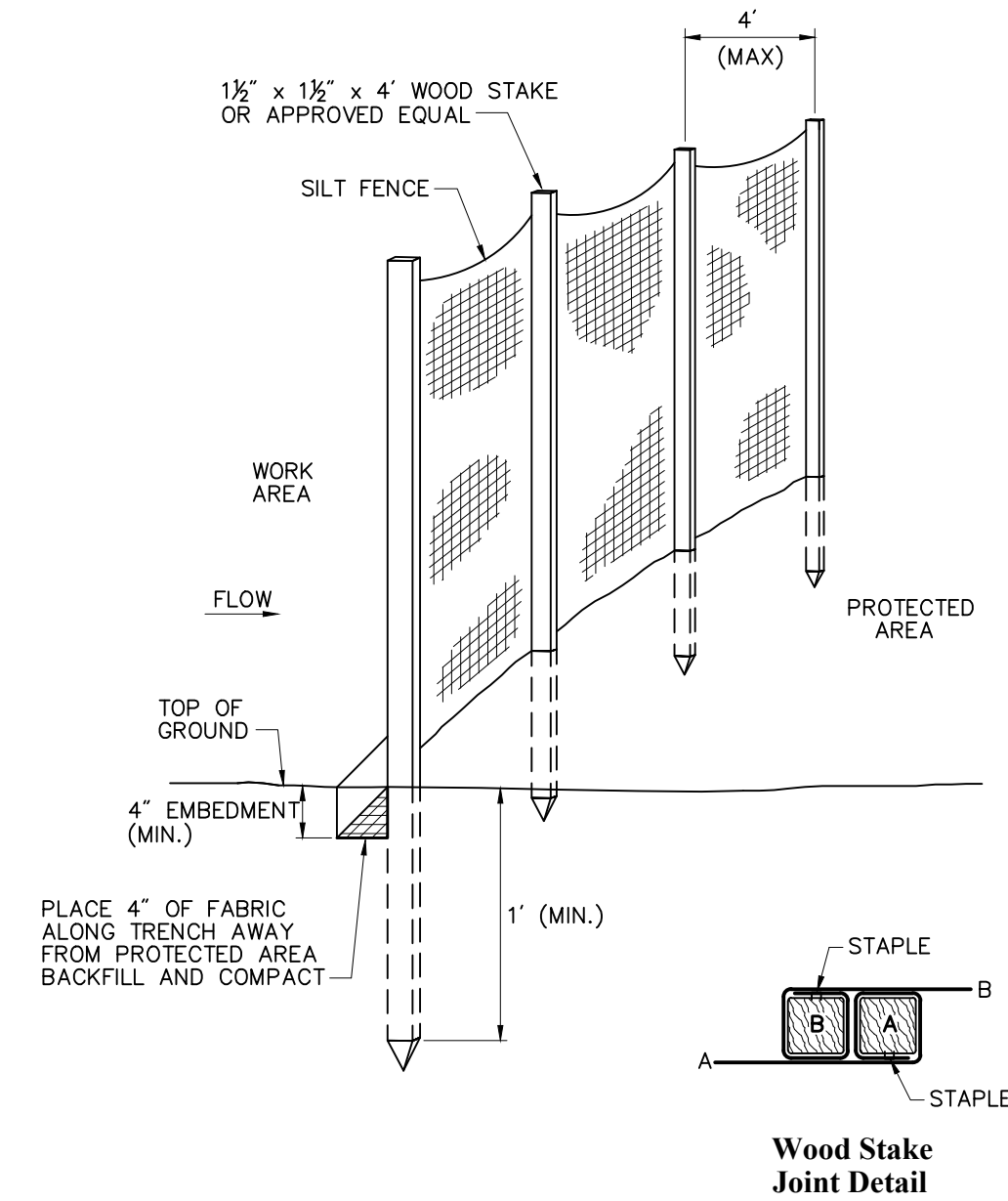


VHB Vanasse Hangen Brustlin, Inc.

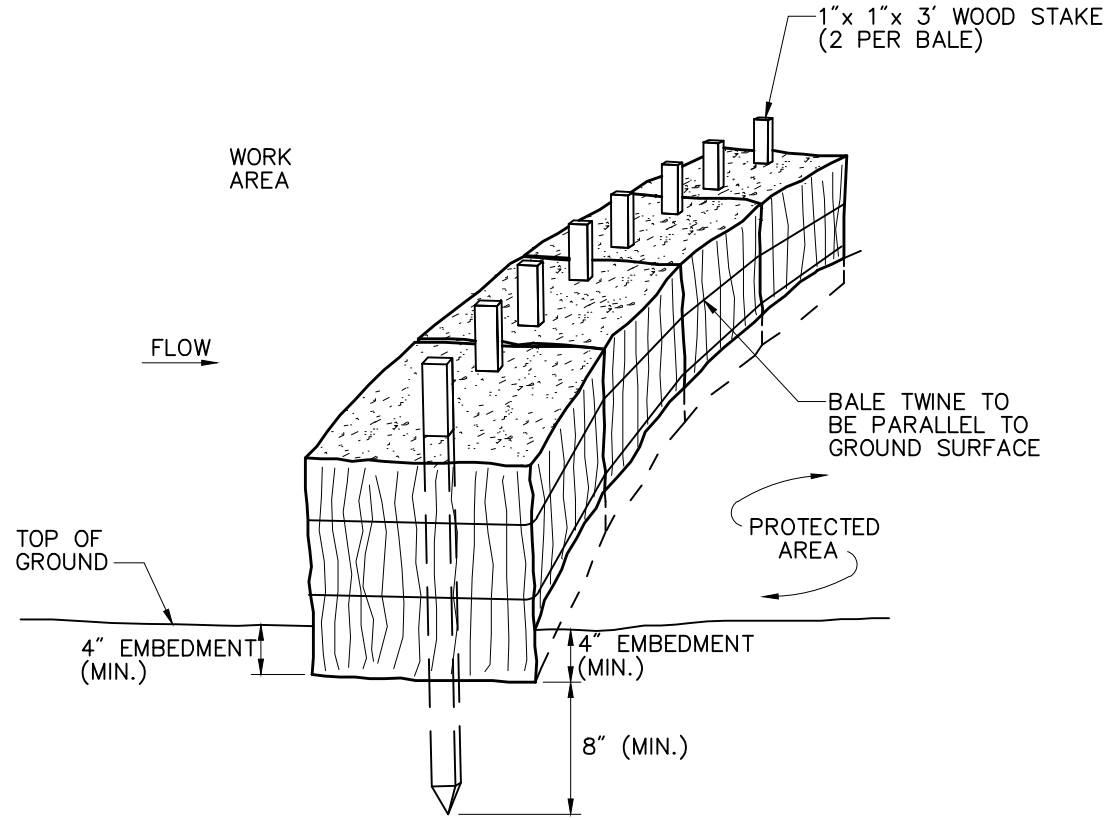
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14-Jul-15	52304.00	52304-XS	-	41	58

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
CROSS SECTIONS					

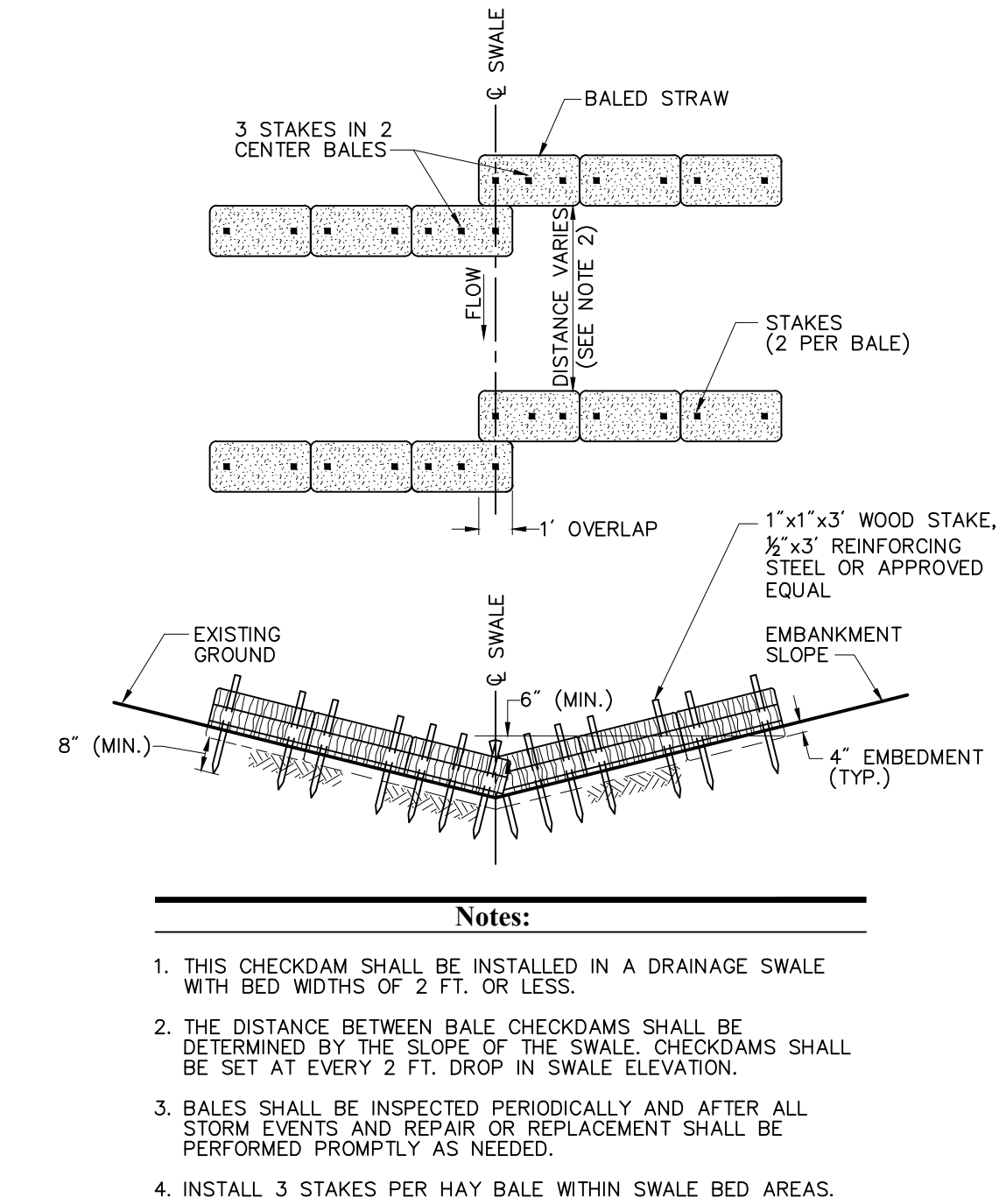
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	DATE						
	DATE	NUMBER	DATE	STATION	STATION		DESCRIPTION
	DATE						
NEW DESIGN							
SHEET CHECKED							
AS BUILT DETAILS	DATE						



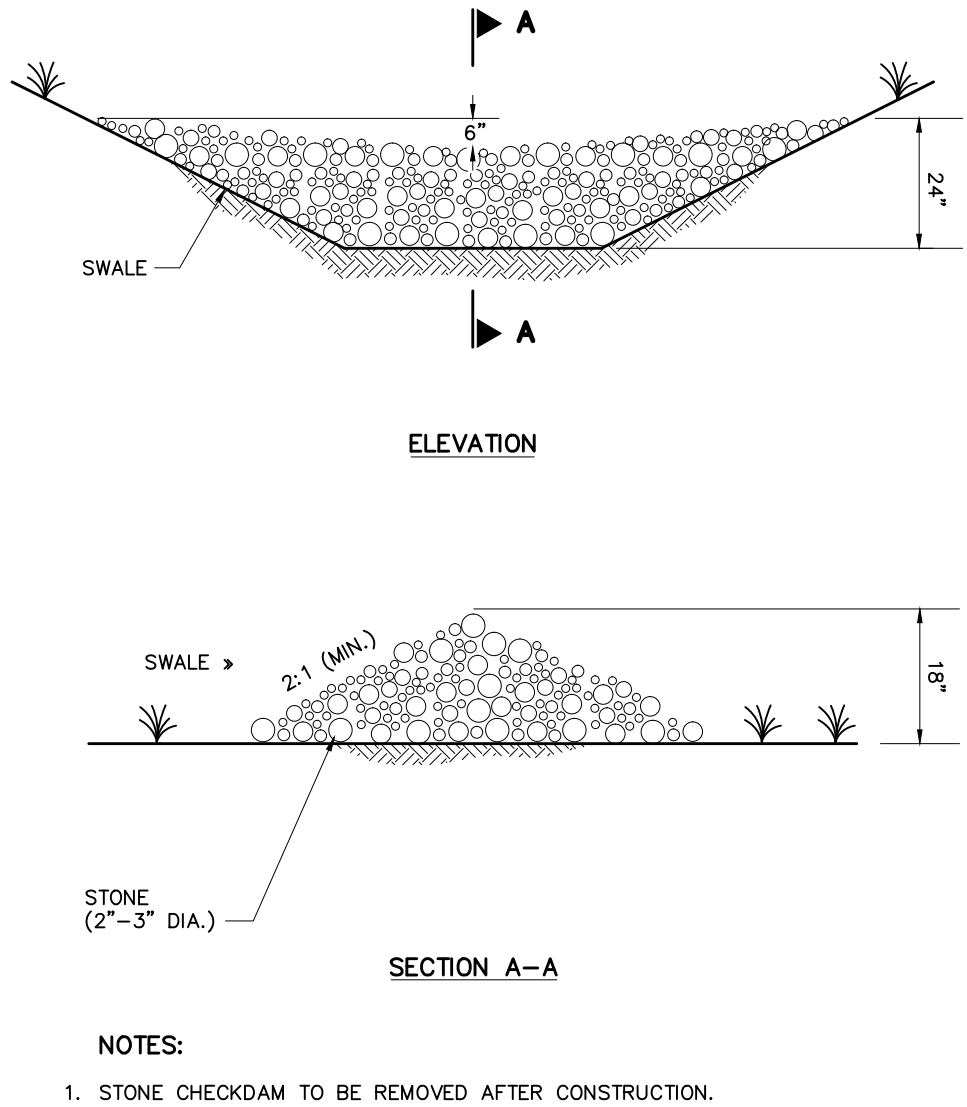
Silt Fence Barrier 6/08
NTS Source: VHB LD_650



Straw Bale Barrier (Embedded) 2/11
NTS Source: VHB LD_652

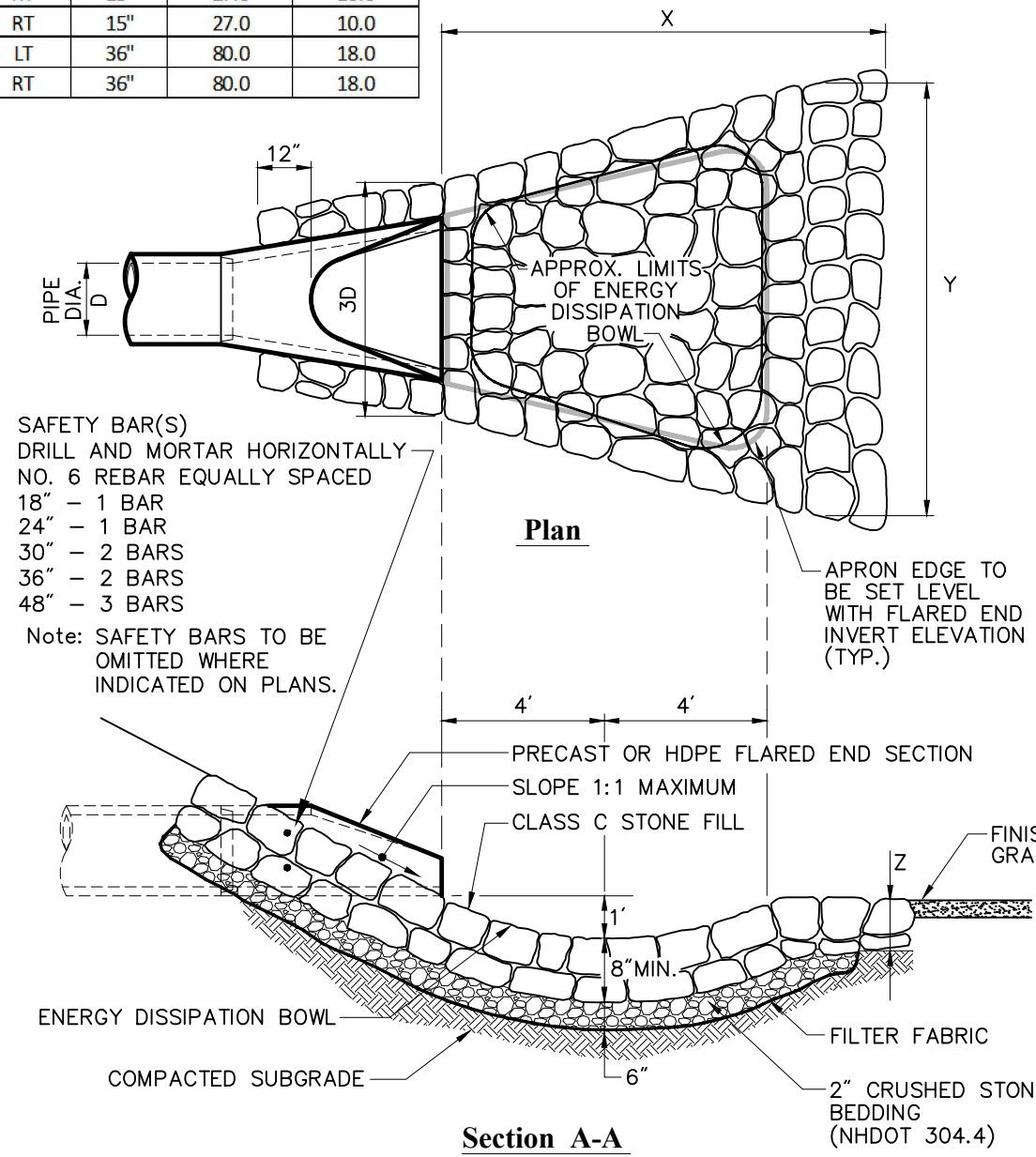


Straw Bale Checkdam (Narrow Swale) 2/11
NTS Source: VHB LD_672

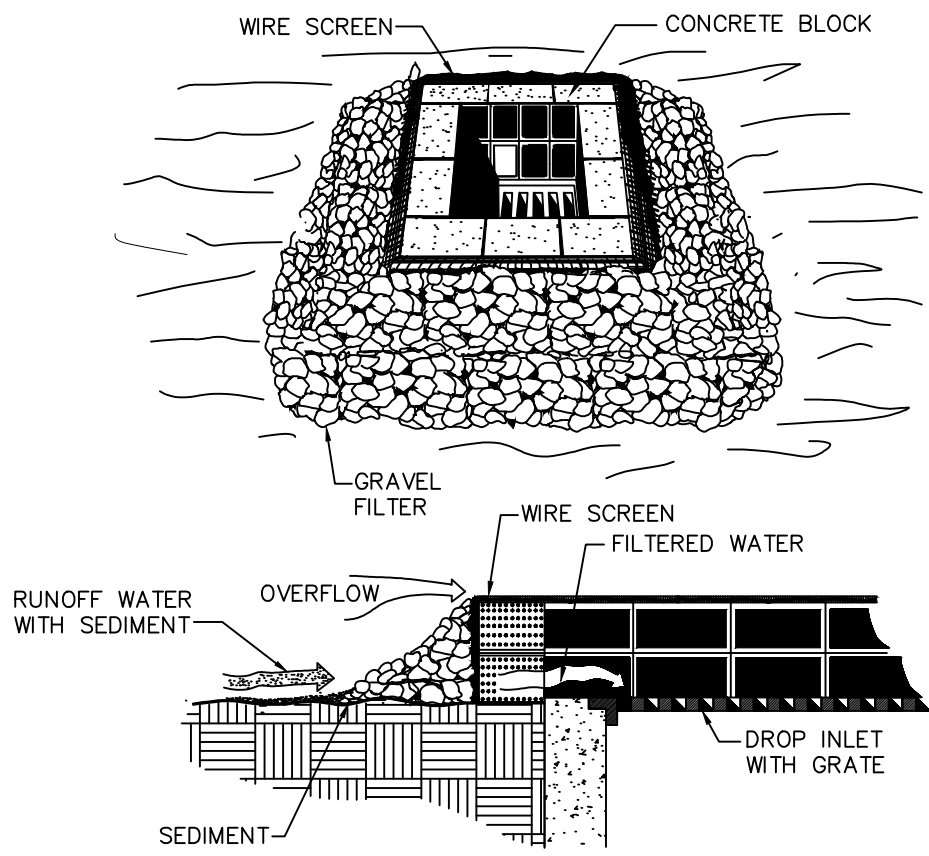


Stone Checkdam 6/08
NTS Source: VHB LD_673

LOCATION	PIPE	AREA (SF)	DEPTH (IN)
STA. 126+38	LT	15'	27.0
STA. 137+00	RT	15'	27.0
STA. 143+60	RT	15'	27.0
STA. 145+05	RT	15'	27.0
STA. 150+00	LT	15'	27.0
STA. 150+00	RT	15'	27.0
STA. 152+60	RT	15'	27.0
STA. 156+50	RT	15'	27.0
STA. 131+73	LT	36'	80.0
STA. 133+00	RT	36'	80.0

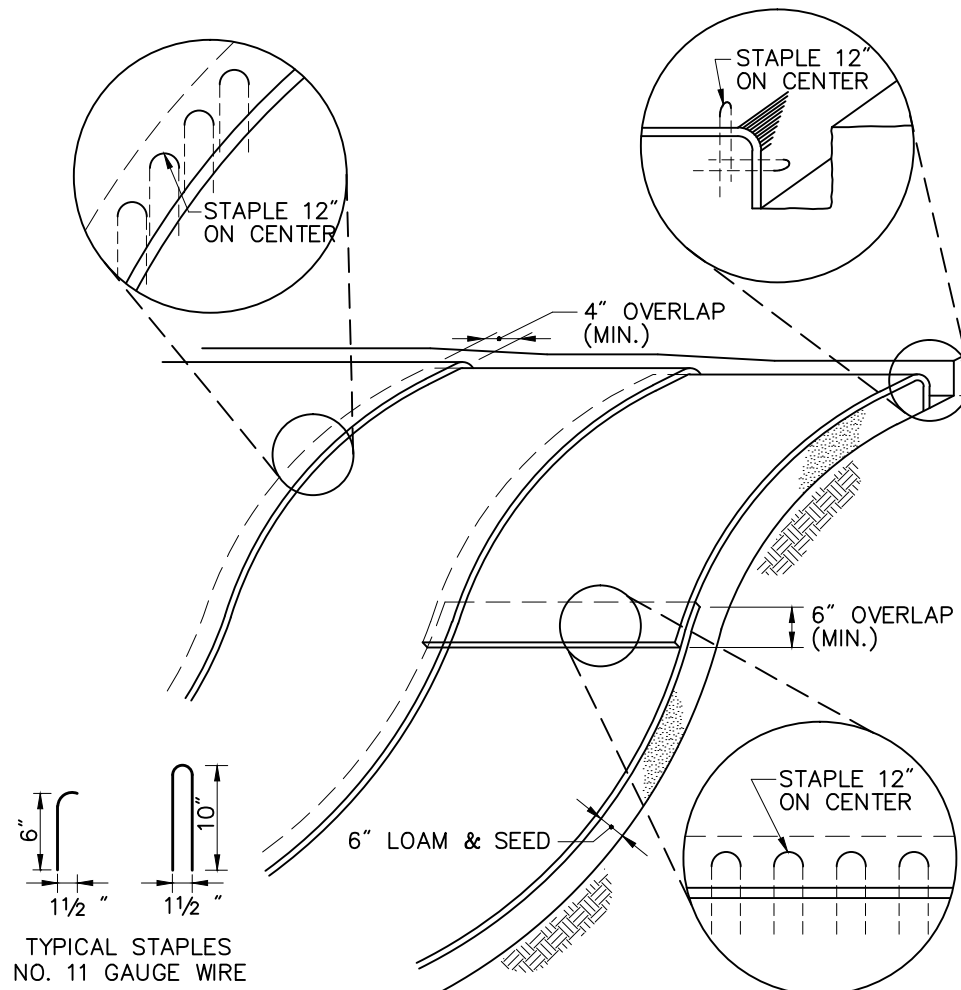


Flared End Section (FES) with Stone Protection 5/12
NTS Source: VHB REV LD_134



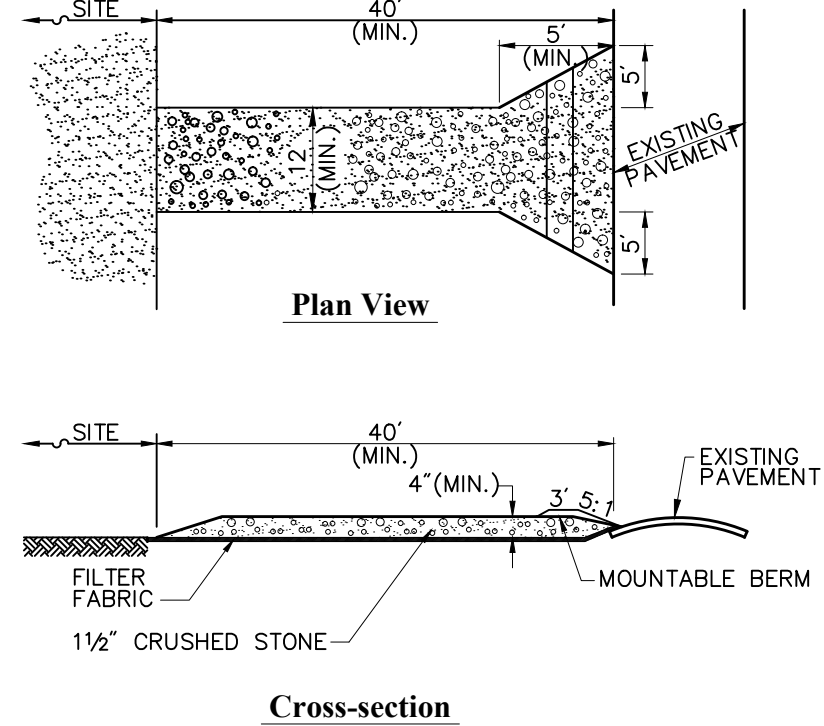
- Notes:**
- CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12 INCHES HIGH AND A MAXIMUM OF 24 INCHES HIGH.
 - HARDWARE CLOTH OR WIRE MESH SHOULD BE PLACED OVER THE OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
 - SEWER STONE OR OTHER CLEAN COARSE AGGREGATE SHOULD BE PLACED AGAINST THE BLOCK TO THE TOP OF THE BARRIER.
 - BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER SHALL BE CONSTRUCTED IN PAVED AREAS.

Block and Gravel Drop Inlet Sediment Filter 1/06
NTS Source: VHB REV LD_676



- Notes:**
- BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
 - ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
 - THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
 - WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
 - METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
 - EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 2:1.

Erosion Control Blanket Slope Installation 1/10
NTS Source: VHB LD_680



- Notes:**
- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
 - STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit 6/08
NTS Source: VHB REV LD_682

VHB Vanasse Hangen Brustlin, Inc.

DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-ER-DT2	-	42	58

TOWN OF SALEM, NEW HAMPSHIRE
SALEM-WINDHAM PED/BIKE TRAIL
EROSION & SEDIMENT CONTROL DETAILS

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

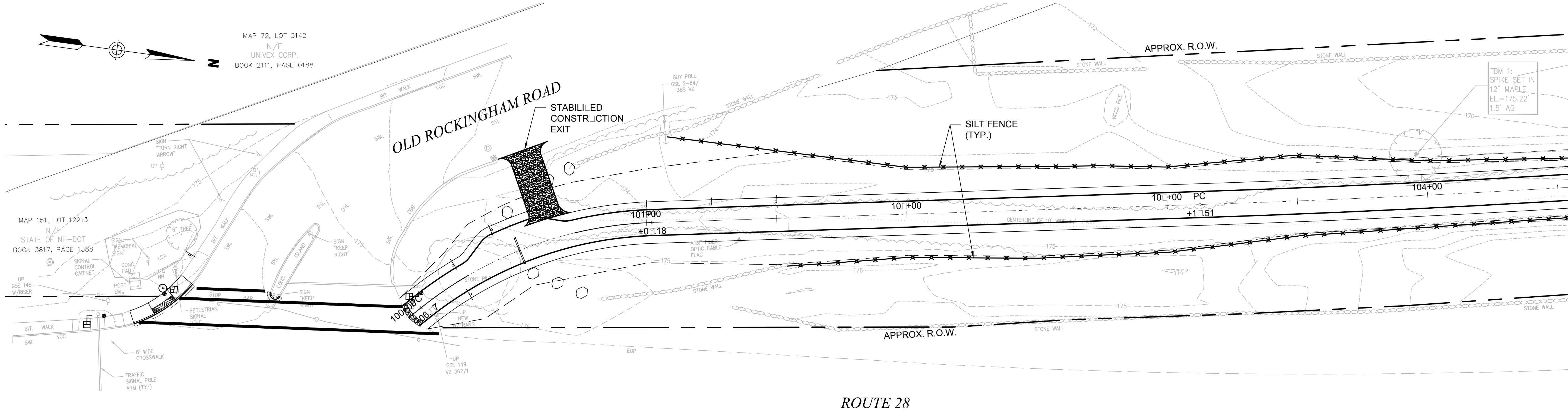
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NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS



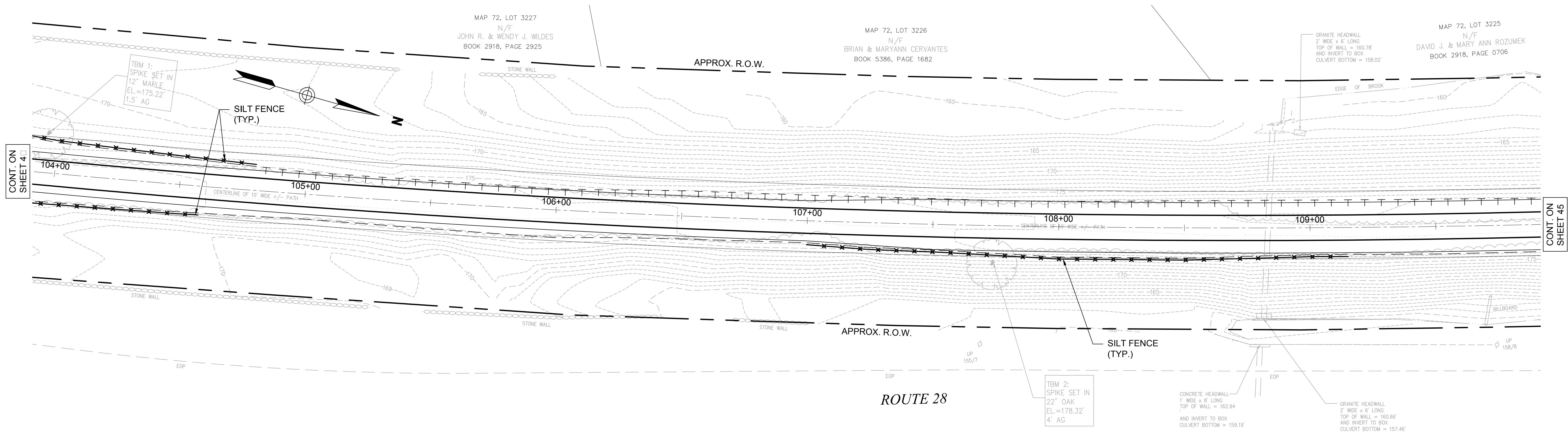
VHB Vanasse Hangen Brustlin, Inc.	
DATE PLOTTED	VHB PROJECT NO.
14-Jul-15	52304.00

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
EROSION & SEDIMENT CONTROL PLAN					
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
52304-ER	-	43	58		

NOTES:

- REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.
- RESTORE STABILIZED CONSTRUCTION EXIT WITH LOAM AND SEED PRIOR TO COMPLETION OF PROJECT.

SDR PROCESSED		REVISIONS AFTER PROPOSAL			
DATE		NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN					
SHEET CHECKED					
AS BUILT DETAILS					
DATE					



NOTES:

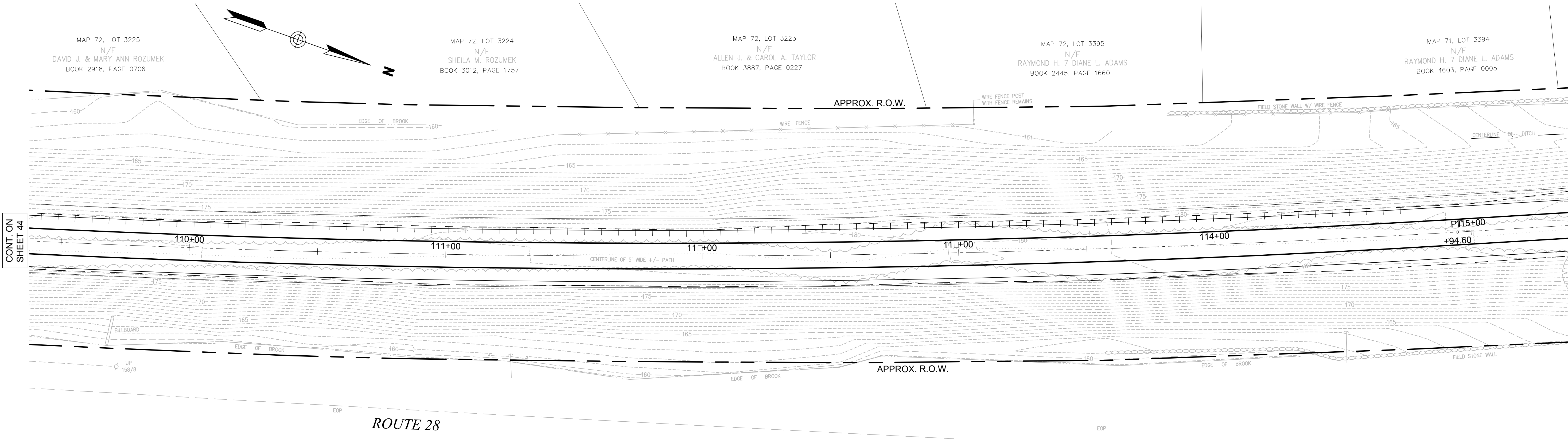
1. REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.



VHB <i>Vanasse Hangen Brustlin, Inc.</i>		CONTROL PLAN			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-ER	-	44	58

REVISIONS AFTER PROPOSAL				DESCRIPTION	
STATION	STATION	STATION	STATION		
NUMBER	NUMBER	NUMBER	NUMBER		
DATE	DATE	DATE	DATE		

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE

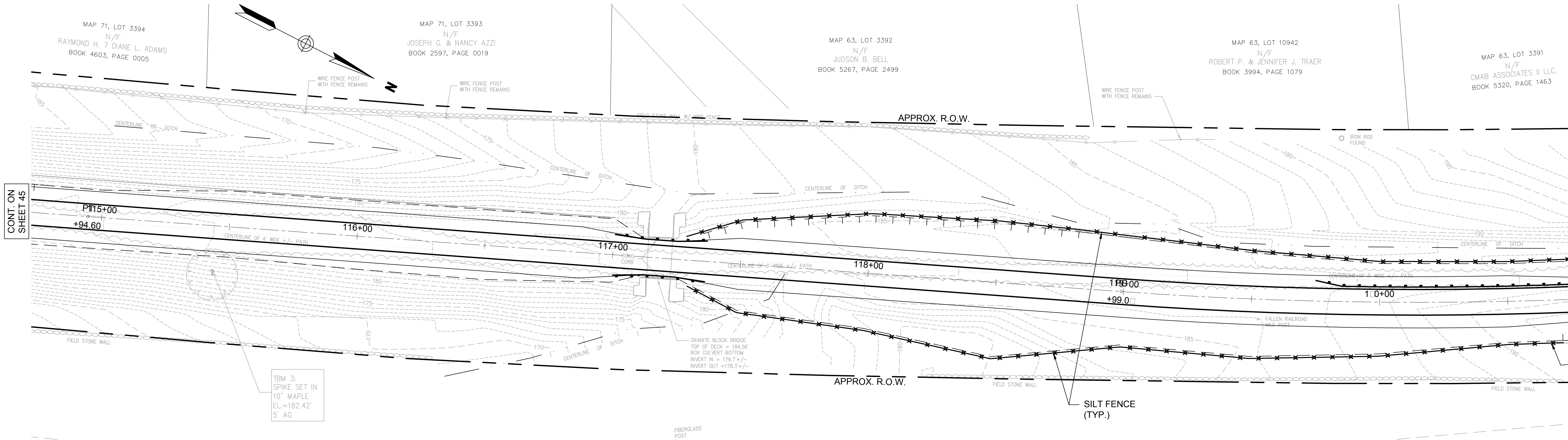


VHB Vanasse Hangen Brustlin, Inc.	
DATE PLOTTED	VHB PROJECT NO.
14-Jul-15	52304.00

TOWN OF SALEM, NEW HAMPSHIRE			
SALEM-WINDHAM PED/BIKE TRAIL			
EROSION & SEDIMENT CONTROL PLAN			
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
52304-ER	-	45	58

- NOTES:
- REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.

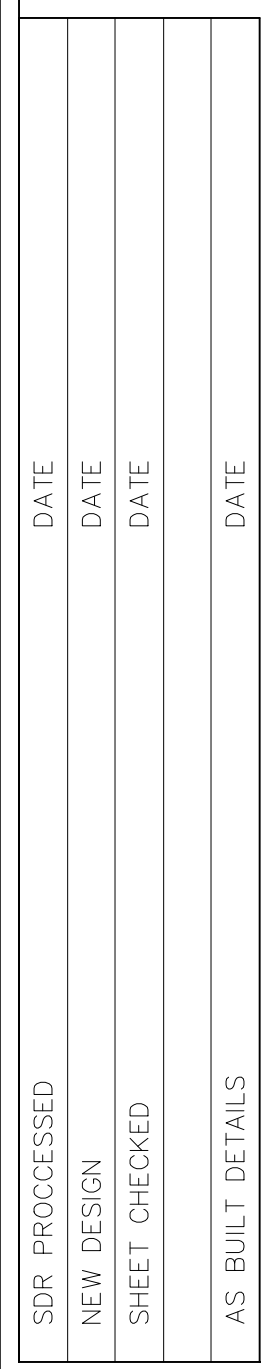
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		NUMBER	DATE	STATION	DATE	NUMBER	DATE
SDR PROCESSED							
NEW DESIGN							
SHEET CHECKED							
AS BUILT DETAILS							



- NOTES:
- REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.



TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
EROSION & SEDIMENT CONTROL PLAN					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-ER	-	46	58



VHB *Vanasse Hangen Brustlin, Inc.*

DATE PLOTTED	VHB PROJECT NO.
14-Jul-15	52304.00

TOWN OF SALEM, NEW HAMPSHIRE

SALEM-WINDHAM PED/BIKE TRAIL

EROSION & SEDIMENT CONTROL PLAN

DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
52304-ER	—	48	58

NOTES:

1. REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

DATE

SDR PROCESSED

NEW DESIGN

SHEET CHECKED

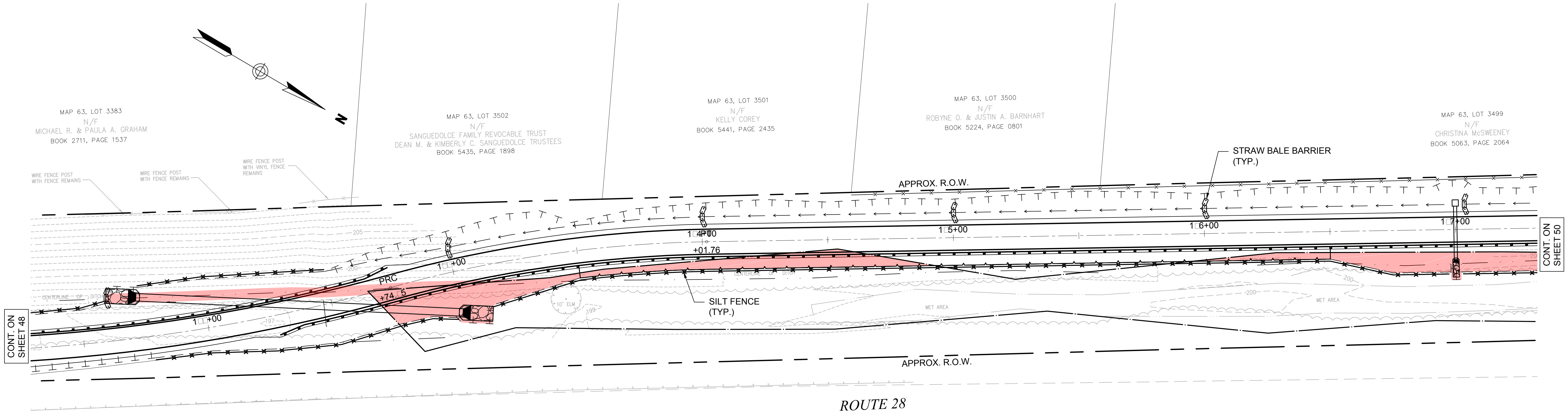
AS BUILT DETAILS

DATE

DATE

DATE

DATE



NOTES:

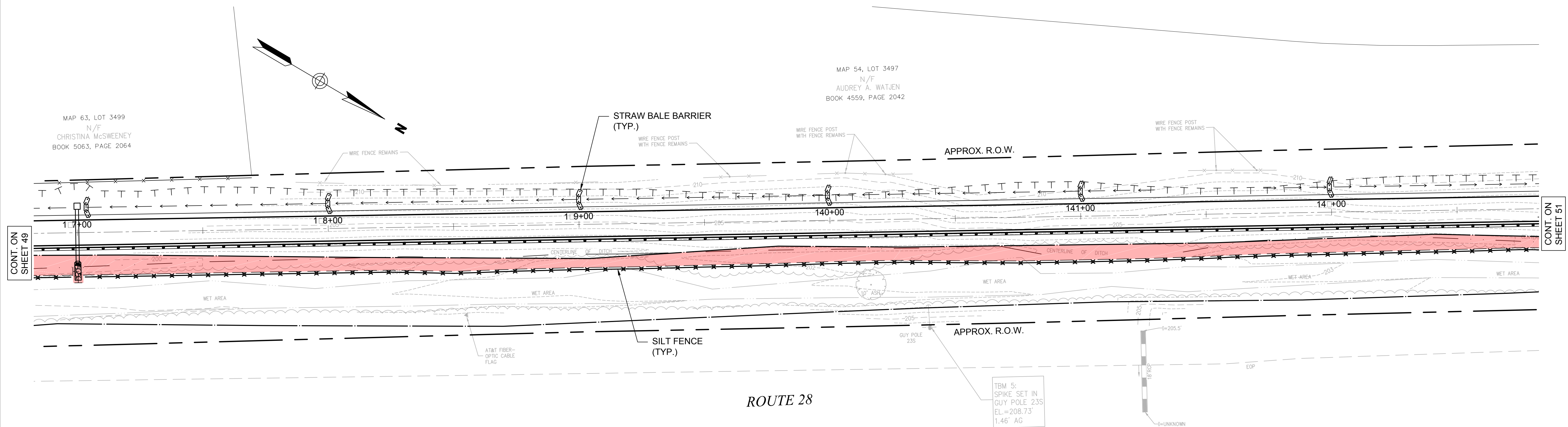
1. REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.



VHB Vanasse Hangen Brustlin, Inc.			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.
14-Jul-15	52304.00	52304-ER	-

TOWN OF SALEM, NEW HAMPSHIRE			
SALEM-WINDHAM PED/BIKE TRAIL			
EROSION & SEDIMENT CONTROL PLAN			
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
52304-ER	-	49	58

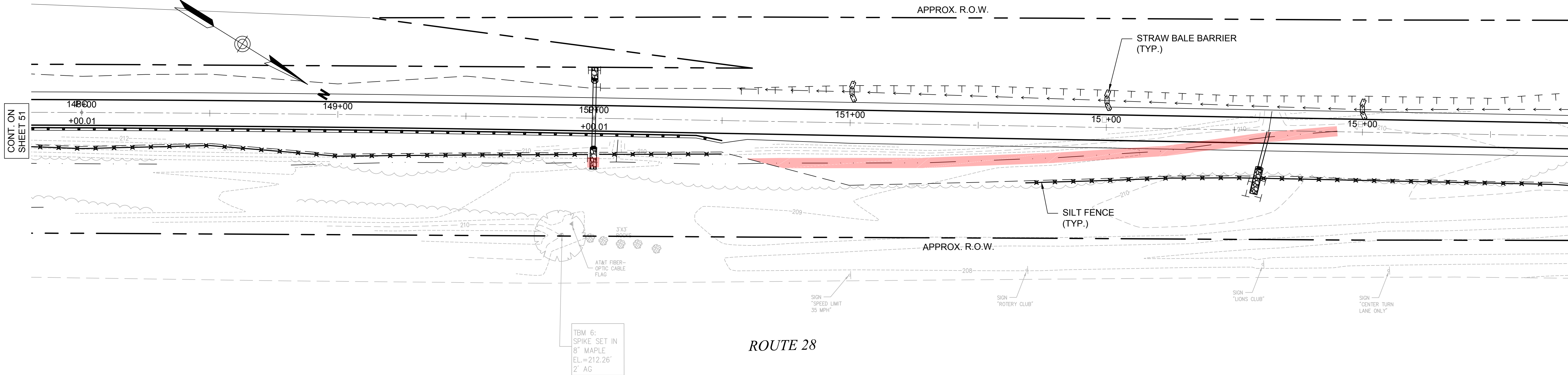
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NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



1. REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.

 <i>Vanasse Hangen Brustlin, Inc.</i>		TOWN OF SALEM, NEW HAMPSHIRE			
		SALEM-WINDHAM PED/BIKE TRAIL			
		EROSION & SEDIMENT CONTROL PLAN			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-ER	—	50	58

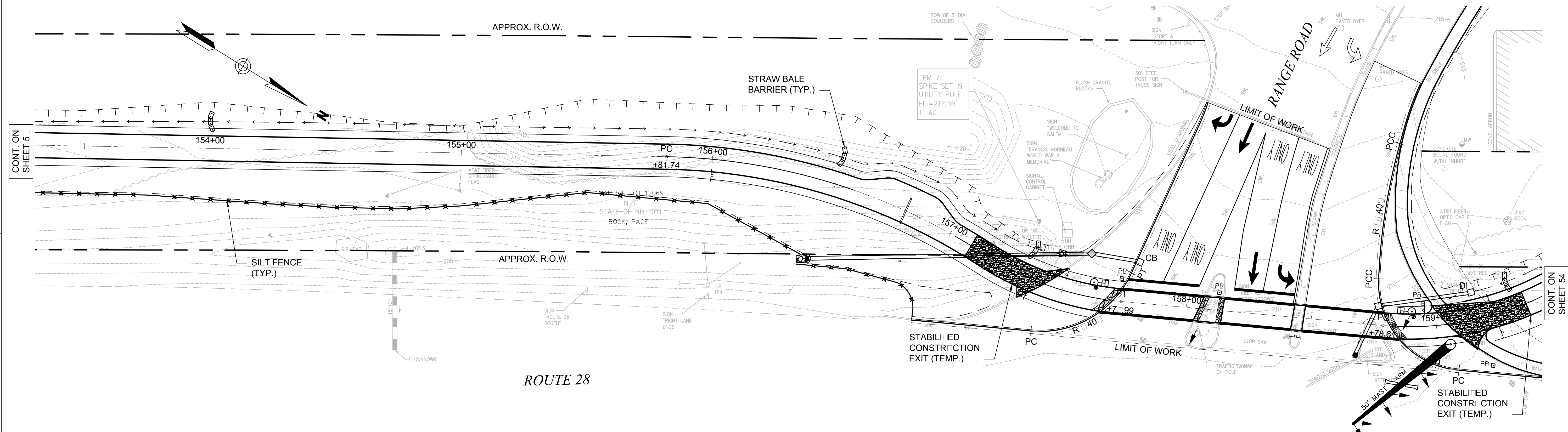
SDR PROCESSED	REVISIONS AFTER PROPOSAL			
	DATE	NUMBER	STATION	DESCRIPTION
NEW DESIGN				
SHEET CHECKED				
AS BUILT DETAILS				



- NOTES:
- REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.

TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
EROSION & SEDIMENT CONTROL PLAN					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-ER	-	52	58

SDR PROCESSED	DATE				
NEW DESIGN	DATE				
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				
		REVISIONS AFTER PROPOSAL			
	NUMBER	DATE	STATION	DESCRIPTION	



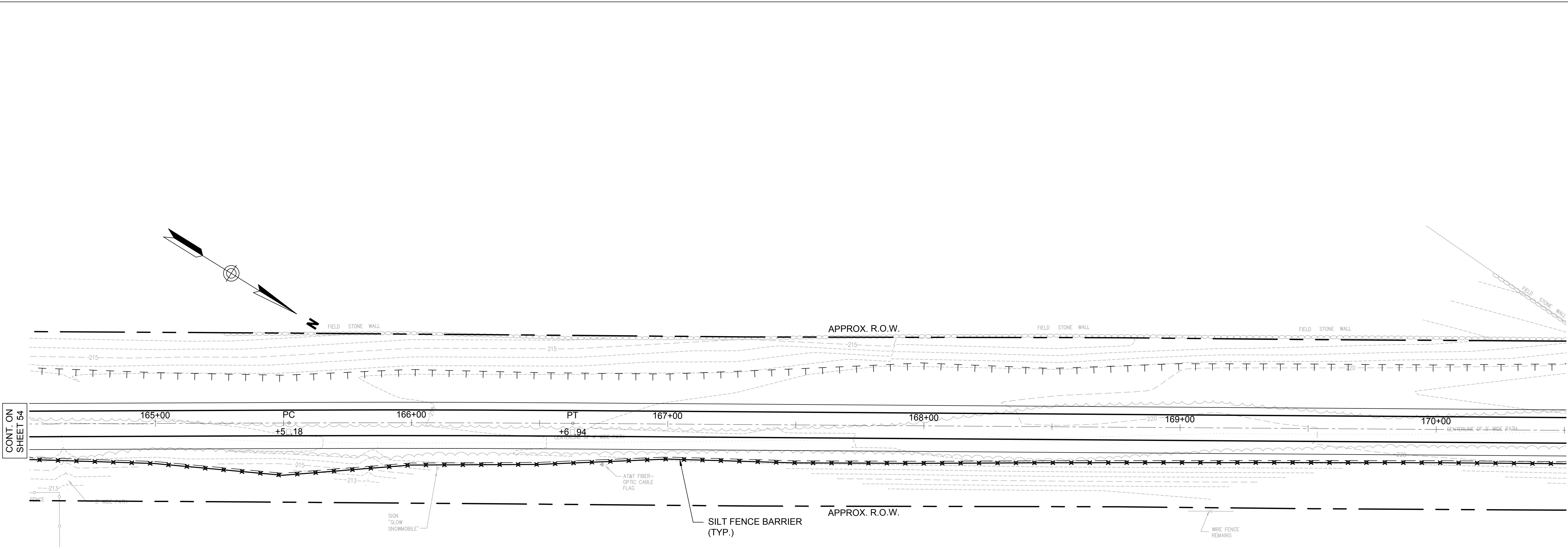
NOTES:

1. REFER TO LEGEND AND GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.
- ☐ RESTORE STABILIZED CONSTRUCTION EXIT WITH LOAM AND SEED PRIOR TO COMPLETION OF PROJECT.

VHB Vanasse Hangen Brustlin, Inc.		TOWN OF SALEM, NEW HAMPSHIRE				
		SALEM-WINDHAM PED/BIKE TRAIL				
		EROSION & SEDIMENT CONTROL PLAN				
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
14-Jul-15	52304.00	52304-ER	—	53	58	

SDR PROCESSED		DATE		REVISIONS AFTER PROPOSAL			
NEW DESIGN		DATE		NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED		DATE					
AS BUILT DETAILS		DATE					

REVISIONS AFTER PROPOSAL				SDR PROCESSED			
STATION	DESCRIPTION	NUMBER	DATE	DATE	DATE	DATE	DATE

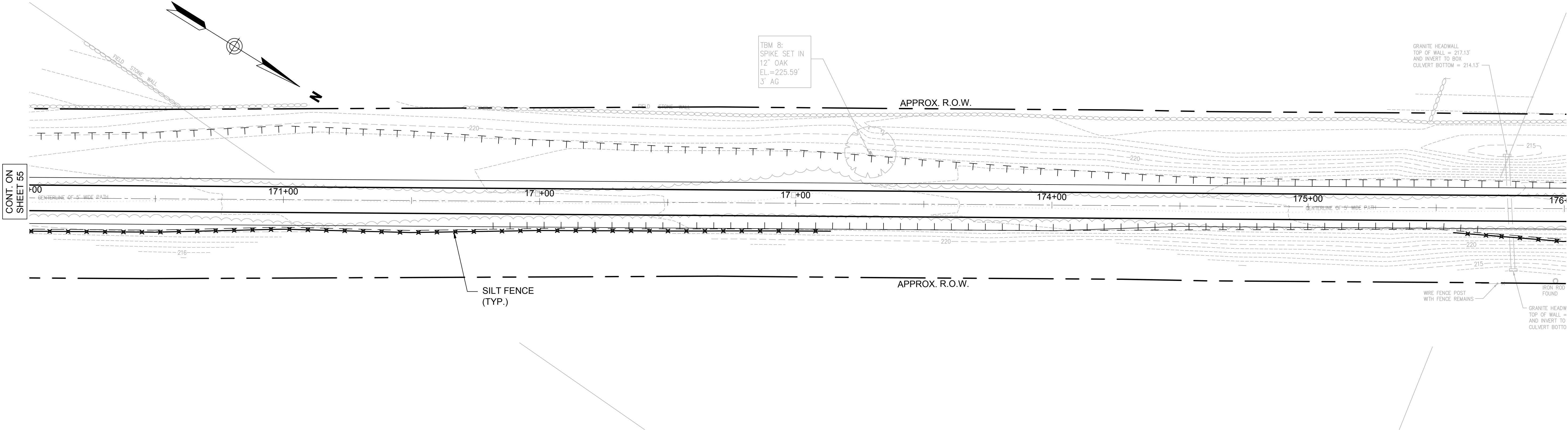


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TOWN OF SALEM, NEW HAMPSHIRE					
SALEM-WINDHAM PED/BIKE TRAIL					
EROSION & SEDIMENT CONTROL PLAN					
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14-Jul-15	52304.00	52304-ER	-	55	58

SDR PROCESSED		REVISIONS AFTER PROPOSAL			
		NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN	DATE				
SHEET CHECKED	DATE				
AS BUILT DETAILS	DATE				

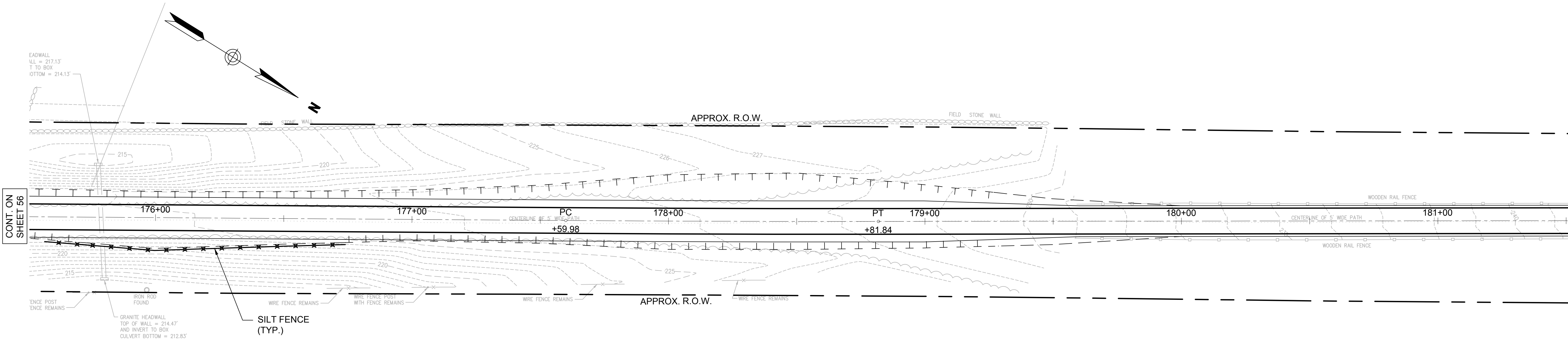


- NOTES:
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TOWN OF SALEM, NEW HAMPSHIRE					
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14-Jul-15	52304.00	52304-ER	-	56	58

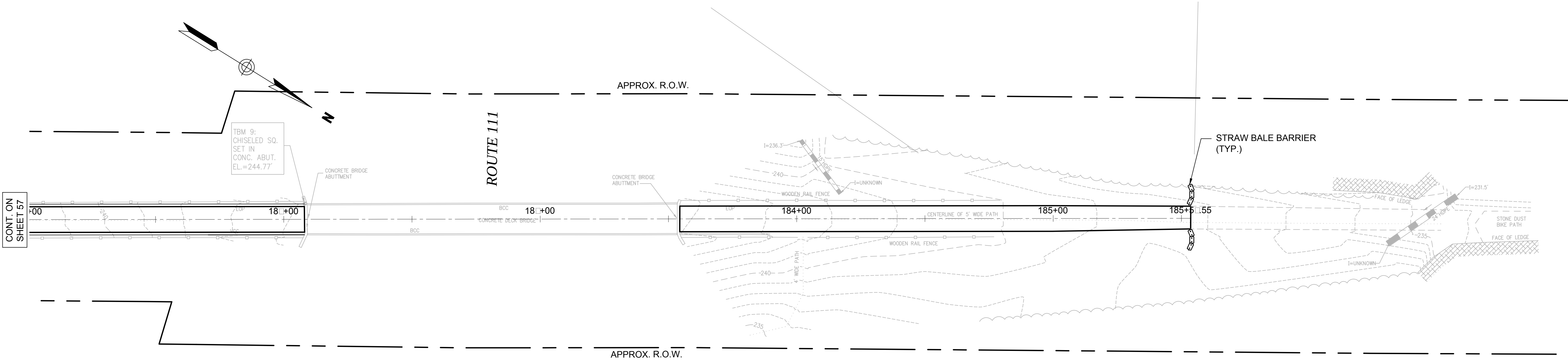
SDR PROCESSED		REVISIONS AFTER PROPOSAL	
DATE	DESCRIPTION	STATION	STATION
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DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14-Jul-15	52304.00	52304-ER	-	58	58