

CITY OF IDAHO SPRINGS

SODA CREEK

ROAD IMPROVEMENTS

IDAHO SPRINGS, CLEAR CREEK COUNTY, COLORADO

CONSTRUCTION DOCUMENTS

SEPTEMBER 4, 2018

HDR
 1670 BROADWAY, SUITE 3400
 DENVER, COLORADO 80202
 Phone: 303-764-1520
 Fax: 303-860-7139



NO.	DATE	DESIGN	DESCRIPTION



DESIGNED BY: EKB
 DRAWN BY: EKB
 CHECKED BY: ATG
 JOB #: 10092835
 DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
 0-408 SODA CREEK RD.
 IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

SHEET NO.
 COVER SHEET

CO.0

SHEET LIST TABLE

Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
C0.2	SUMMARY OF APPROXIMATE QUANTITIES AND TABULATION OF EARTHWORK
C.03	TABULATION OF REMOVALS AND RESETS
C.04	TABULATIONS OF SURFACING, SIDEWALK, CURB AND GUTTER
C.05	TABULATIONS OF SIGNING AND STRIPING
C0.6	TABULATION OF UTILITIES
C0.7	DEMOLITION PLAN
C0.8	DEMOLITION PLAN
CE1.0	EROSION CONTROL PLAN
CE1.1	EROSION CONTROL PLAN
CE1.2	EROSION CONTROL NOTES
CE1.3	EROSION CONTROL NOTES
C1.0	ROADWAY PLAN AND PROFILE BEGIN TO STA 14+40
C1.1	ROADWAY PLAN AND PROFILE STA 14+40 TO STA 18+80
C1.2	ROADWAY PLAN AND PROFILE STA 18+80 TO STA 23+20
C1.3	ROADWAY PLAN AND PROFILE STA 23+20 TO 27+60
C1.4	ROADWAY PLAN AND PROFILE 27+60 TO END
C1.5	DETAILED GRADING AND DRAINAGE PLAN
C1.6	DETAILED GRADING AND DRAINAGE PLAN
C1.7	DETAILED GRADING AND DRAINAGE PLAN
CD1.0	ROADWAY SECTIONS
CD1.1	GRADING AND DRAINAGE DETAILS
CD1.2	SITE DETAILS
CD1.3	SITE DETAILS
C2.0	WATER PLAN AND PROFILE BEGIN TO STA 5+00
C2.1	WATER PLAN AND PROFILE STA 5+00 TO STA 10+00
C2.2	WATER PLAN AND PROFILE STA 10+00 TO STA 15+00
C2.3	WATER PLAN AND PROFILE STA 15+00 TO END
C2.4	SANITARY PLAN AND PROFILE BEGIN TO STA 4+40
C2.5	SANITARY PLAN AND PROFILE STA 4+40 TO STA 8+80
C2.6	SANITARY PLAN AND PROFILE STA 8+80 TO STA 13+20
C2.7	SANITARY PLAN AND PROFILE STA 13+20 TO 17+50
C2.8	SANITARY PLAN AND PROFILE STA 17+50 TO END
CD2.0	UTILITY DETAILS
CD2.1	UTILITY DETAILS
C3.0	ROADWAY CROSS SECTIONS
C3.1	ROADWAY CROSS SECTIONS
C3.2	ROADWAY CROSS SECTIONS
C3.3	ROADWAY CROSS SECTIONS
C3.4	ROADWAY CROSS SECTIONS
C3.5	ROADWAY CROSS SECTIONS
C3.6	ROADWAY CROSS SECTIONS
C3.7	ROADWAY CROSS SECTIONS
C3.8	ROADWAY CROSS SECTIONS
C3.9	ROADWAY CROSS SECTIONS
C3.10	ROADWAY CROSS SECTIONS
E1.0	SITE ELECTRICAL PLAN
E2.0	ELECTRICAL ONE LINE AND DETAILS
E3.0	ELECTRICAL NOTES

TABULATION OF LENGTH & DESIGN DATA	
STATION	FEET ROADWAY
SODA CREEK ROAD STA. 9+99.15 TO STA. 29+98.81	1999.66
TOTAL	1999.66
SUMMARY OF PROJECT LENGTH:	
MAJOR STRUCTURE	N/A
PROJECT GROSS LENGTH	1999.66
DESIGN DATA	CITY ROAD
MINIMUM RADIUS OF CURVE	300 FT
MAXIMUM GRADE	5.80%
MINIMUM S.S.D. HORIZONTAL	80 FT
MINIMUM S.S.D. VERTICAL	80 FT
MAXIMUM DESIGN SPEED	15 MPH
CLEAR ZONE DISTANCE (TANGENT)	14 FT.

CONTACTS

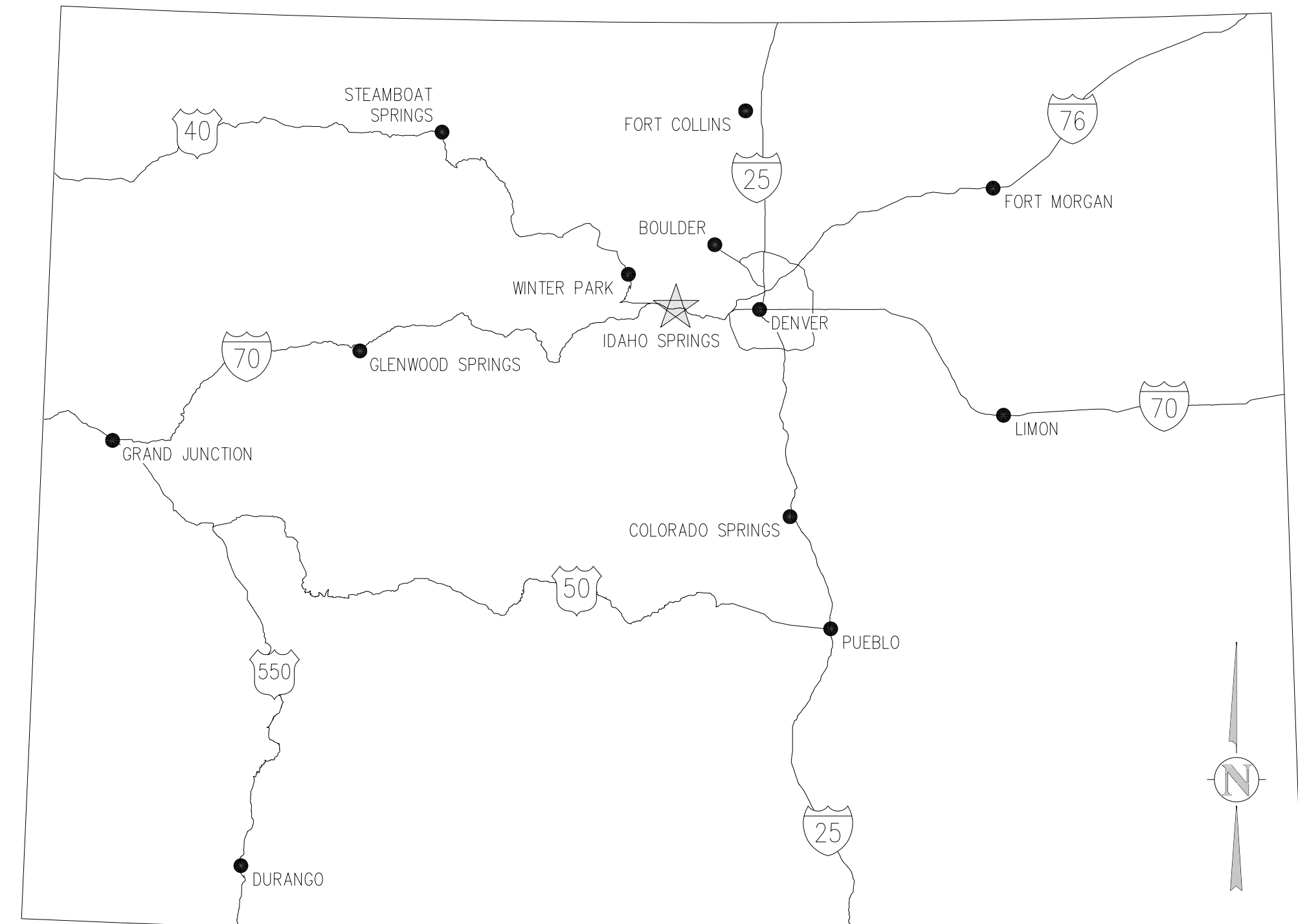
OWNER: CITY OF IDAHO SPRINGS
 1711 MINER ST
 IDAHO SPRINGS, CO 80452
 ANDREW MARSH, CITY ADMINISTRATOR

CIVIL ENGINEER: HDR INC.,
 1670 BROADWAY, STE 3700
 DENVER, CO 80202
 TONY GALARDI, SENIOR PROJECT MANAGER

PHONE

(303) 567-4421

(303) 829-0859



VICINITY MAP
NTS



PROJECT LOCATION MAP
NTS

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ITEM NO.	ITEM DESCRIPTION	UNITS	REMOVALS		EROSION CONTROL		ROADWAY		GRADING AND DRAINAGE		WATER		SANITARY		ELECTRICAL		PROJECT TOTALS		
			PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN
201-0000	CLEARING AND GRUBBING	LS	1															1	
202-00010	REMOVAL OF TREE	EACH	6															6	
202-00019	REMOVAL OF INLET	EACH	1															1	
202-00021	REMOVAL OF MANHOLE	EACH	7															7	
202-00031	REMOVAL OF FIRE HYDRANT	EACH	4															4	
202-00032	REMOVAL OF VALVE	EACH	7															7	
202-00200	REMOVAL OF SIDEWALK	SY	218															218	
202-00201	REMOVAL OF CURB	LF	149															149	
202-00205A	REMOVE OR RESET WHEEL STOP	EACH	8															8	
202-00220	REMOVAL OF ASPHALT MAT	SY	6,674															6,674	
202-00810	REMOVAL OF GROUND SIGN	EACH	2															2	
202-00821	REMOVAL OF SIGN PANEL	EACH	1															1	
203-00010	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	CY																2,480	
203-00100	MUCK EXCAVATION	CY																100	
206-00510	FILTER MATERIAL (CLASS A)	CY						324										324	
208-00513	EROSION AND SEDIMENT CONTROL	LS			1													1	
210-00035	RESET WATER METER	EACH	1															1	
210-04010	ADJUST MANHOLE	EACH	5															5	
210-00810	RESET GROUND SIGN	EACH	3															3	
304-06007	AGGREGATE BASE COURSE (CLASS 6)	CY						1,262										1,262	
403-33721	HOT MIX ASPHALT (GRADING S) (75) (PG 58-28)	TON						2,363										2,363	
403-96700	SPEED HUMP	EACH						3										3	
412-00600	CONCRETE PAVEMENT (6 INCH)	SY						80										80	
420-00113	GEOTEXTILE (DRAINAGE) (CLASS 2)	SY						6,104										6,104	
506-00209	RIPRAP (9 INCH)	CY						51										51	
603	4 INCH PLASTIC PIPE (SDR 35)	LF											490					490	
603	6 INCH PLASTIC PIPE (SDR 35)	LF											29					29	
603	8 INCH PLASTIC PIPE (SDR 35)	LF											1,955					1,955	
603	SANITARY SERVICE CONNECTION	EACH											14					14	
603-01120	12 INCH REINFORCED CONCRETE PIPE	LF							23									23	
603-01150	15 INCH REINFORCED CONCRETE PIPE	LF							38									38	
603-02180	23X14 INCH REINFORCED CONCRETE PIPE ELLIPTICAL	LF							57									57	
603-05015	15 INCH REINFORCED CONCRETE END SECTION	EACH							1									1	
603-05118	23X14 INCH REINFORCED CONCRETE END SECTION ELLIPTICAL	EACH							2									2	
604-13005	INLET TYPE 13 (5 FOOT)	EACH							2									2	
604-16005	INLET TYPE 16 (5 FOOT)	EACH							3									3	
604-30005	MANHOLE SLAB BASE (5 FOOT)	EACH											5					5	
604-30010	MANHOLE SLAB BASE (10 FOOT)	EACH											6					6	
605	4 INCH PIPE UNDERDRAIN	LF							761									761	
608-00000	CONCRETE SIDEWALK	SY						527										527	
608-00010	CONCRETE CURB RAMP	SY						95										95	
608-10011	SIDEWALK CHASE	EACH						5										5	
609-21010	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF						2,728										2,728	
609-24004	GUTTER TYPE 2 (4 FOOT)	LF						693										693	
613	ELECTRICAL SERVICE	LS																1	
613	PEDESTRIAN LIGHTING	LS																1	
613-00400	4 INCH ELECTRICAL CONDUIT	LF						200										200	
614-00011	SIGN PANEL (CLASS I)	SF						68										68	
614-01502	STEEL SIGN SUPPORT (2-INCH ROUND)(POST & SOCKET)	LF						158										158	
614-01578	STEEL SIGN SUPPORT (2-1/2 INCH ROUND NP-40)(SLIPBASE)	EACH						22										22	
619-00002	WATER SERVICE	EACH										14						14	
619-00002	2" WATER SERVICE	EACH										1						1	
619-00002	4" WATER SERVICE	EACH										1						1	
619-50320	4 INCH PLASTIC PIPE (C900)	LF										1,992						1,992	
619-50640	8 INCH PLASTIC PIPE (C900)	LF										1,992						1,992	
619-75032	4 INCH GATE VALVE	EACH										3						3	
619-75064	8 INCH GATE VALVE	EACH										6						6	
619-78048B	FIRE HYDRANT (ASSEMBLY B)	EACH										5						5	
619-80011	WET TAP	EACH										1						1	
626-01000	PUBLIC INFORMATION SERVICES	LS																1	
625-00001	CONSTRUCTION SURVEYING	HR																50	
625-00001	CONSTRUCTION SURVEYING	LS																1	
626-0000	MOBILIZATION	LS																1	
627-00005	EPOXY PAVEMENT MARKING	GAL						26										26	
627-00070	PERFORMED THERMOPLASTIC PAVEMENT MARKING	SF						615										615	
630-0008	TRAFFIC CONTROL (SPECIAL)	LS																1	
700-70010	FIA MINOR CONTRACT REVISIONS	FA																1	

SUMMARY OF EARTHWORK QUANTITIES		
PAY QUANTITIES	PROJECT TOTALS	
	PLAN	AS CONST.
203-00010 UNCLASSIFIED EXCAVATION (CY) (COMPLETE IN PLACE)		
FROM ROADWAY	2,480	
TOTAL FOR PAY QUANTITY	2,480	
203-00100 MUCK EXCAVATION (CY)	100	
FOR INFORMATION ONLY	PROJECT TOTALS	
	PLAN	AS CONST.
UNCLASSIFIED EXCAVATION (CY)		
SODA CREEK ROAD AND MONTANE DRIVE	2,480	
TOTAL	2,480	
EMBANKMENT MATERIAL (CY)		
SODA CREEK ROAD AND MONTANE DRIVE	210	
TOTAL	210	
COMPACTION (AASHTO T-99) (CY) **		
TOTAL EMBANKMENT (NET)	210	
TOTAL	210	
WETTING **		
FOR COMPACTION (0.04 MGAL/CY)	8	
TOTAL	8	

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING APPROPRIATE SHRINK/SWELL FACTOR.
2. EMBANKMENT TO HAVE A MINIMUM R VALUE OF 30.
**INCLUDED IN THE COST OF REMOVALS.
***WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.



NO.	DATE	DES'D	OWN



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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
SUMMARY OF APPROXIMATE QUANTITIES
AND TABULATION OF EARTHWORK

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Tabulation of Removals and Resets

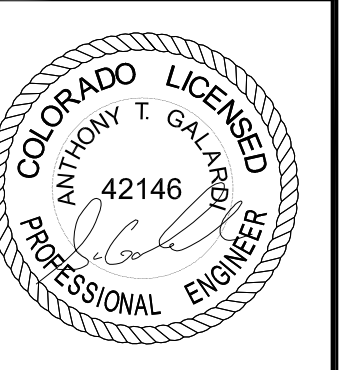
Station	Alignment	Side	202-00010		202-00019		202-00021		202-00031		202-00032		202-00200		202-00201		202-00205A		202-00220		202-00810		202-00821		210-00035		210-04010		210-00810			
			REMOVAL OF TREE		REMOVAL OF INLET		REMOVAL OF MANHOLE		REMOVAL OF FIRE HYDRANT		REMOVAL OF VALVE		REMOVAL OF SIDEWALK		REMOVAL OF CURB		REMOVE OR RESET WHEEL STOP		REMOVAL OF ASPHALT MAT		REMOVAL OF GROUND SIGN		REMOVAL OF SIGN PANEL		RESET WATER METER		ADJUST MANHOLE		RESET GROUND SIGN			
			EACH		EACH		EACH		EACH		EACH		SY		LF		EACH		SY		EACH		EACH		EACH		EACH		EACH			
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
14+19	SODA CREEK RD CENTERLINE	LT	1																													
11+75	SODA CREEK RD CENTERLINE	LT			1																											
10+00	13+70	SODA CREEK RD CENTERLINE	RT					2																			1					
10+00	13+45	SODA CREEK RD CENTERLINE	LT & RT							2																						
10+00	15+60	SODA CREEK RD CENTERLINE	RT																													
10+00	11+00	SODA CREEK RD CENTERLINE	RT																													
10+00	15+60	SODA CREEK RD CENTERLINE	LT																													
10+10	13+80	SODA CREEK RD CENTERLINE	LT										199																			
10+15	11+20	SODA CREEK RD CENTERLINE	RT														8															
10+00	15+60	SODA CREEK RD CENTERLINE	LT & RT																	1956												
N/A	MONTANE DR.	LT & RT																		176												
15+20	SODA CREEK RD	LT																										1				
16+40	17+20	SODA CREEK RD	LT	4																												
16+45	SODA CREEK RD	LT																														
16+60	SODA CREEK RD	RT																					1									
15+80	21+20	SODA CREEK RD	RT					4																								
18+00	20+95	SODA CREEK RD	LT & RT						2		2																					
15+60	21+60	SODA CREEK RD	RT																													
15+60	21+60	SODA CREEK RD	RT																													
19+80	SODA CREEK RD	LT											11																			
21+10	21+25	SODA CREEK RD	LT										8																			
21+20	21+60	SODA CREEK RD	LT													47																
15+60	21+60	SODA CREEK RD	LT & RT																	2064												
17+37	SODA CREEK RD	LT																														
18+74	SODA CREEK RD	RT																														
18+40	20+65	SODA CREEK RD	LT & RT																										3			
19+15	SODA CREEK RD	RT																												1		
24+89	SODA CREEK RD	RT	1																													
25+90	SODA CREEK RD	RT						1																								
25+92	SODA CREEK RD	RT							1		2																					
21+60	25+70	SODA CREEK RD	LT & RT																													
21+60	27+40	SODA CREEK RD	RT																													
21+60	22+70	SODA CREEK RD	LT																													
21+60	22+70	SODA CREEK RD	LT & RT																													
22+71	SODA CREEK RD	LT																														
24+02	SODA CREEK RD	LT																														
29+79	SODA CREEK RD	LT							1		1																					
22+70	29+79	SODA CREEK RD	LT & RT																													
22+70	29+99	SODA CREEK RD	LT & RT																													
PROJECT TOTAL			6		1			7		4			7		218		149		8		6674		2		1		1		5		3	



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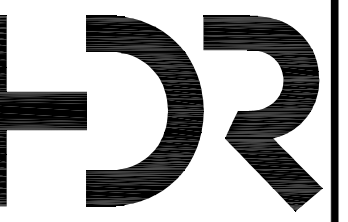
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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
TABULATION OF REMOVALS AND RESETS

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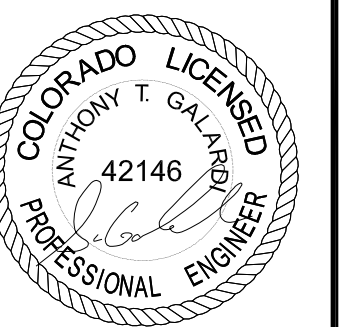


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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
TABULATIONS OF SURFACING, SIDEWALK,
CURB AND GUTTER

SHEET NO.
C.04

Tabulation of Surfacing

Station		Location	206-00510		304-06007		403-33721		403-96700		412-00600	
			FILTER MATERIAL (CLASS A)		AGGREGATE BASE COURSE (CLASS 6)		HOT MIX ASPHALT (GRADING S) (75) (PG 58-28)		SPEED HUMP		CONCRETE PAVEMENT (6 INCH)	
			CY		CY		TON		EACH		SY	
From	To	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
10+03	14+12	SODA CREEK RD			184		360					
10+29	11+58	PARKING			41		80					
11+05	11+39	SODA CREEK RD			3					28		
13+43	13+67	MONTANE DR			29		58					
14+12	14+40	SODA CREEK RD	14		22		42					
14+40	18+80	SODA CREEK RD	212		334		632					
15+47	15+76	SODA CREEK RD			3					20		
18+09	18+33	SODA CREEK RD			2					16		
18+43	18+67	SODA CREEK RD			2					16		
18+80	20+78	SODA CREEK RD	98		154		294					
19+32		SODA CREEK RD						1				
20+71		SODA CREEK RD						1				
20+78	23+20	SODA CREEK RD			159		311					
21+13	23+20	SODA CREEK RD			17		32					
23+20	24+02	SODA CREEK RD			7		15					
23+20	27+80	SODA CREEK RD			172		337					
24+08	27+29	SODA CREEK RD			22							
24+17		SODA CREEK RD						1				
27+80	29+99	SODA CREEK RD			104		203					
28+35	28+57	SODA CREEK RD			3							
29+39	29+63	SODA CREEK RD			3							
Project Total			324		1,262		2,363		3		80	

Tabulation of Sidewalk, and Curb & Gutter

Station		Side	608-00000		608-00010		608-10011		609-21010		609-24004	
			CONCRETE SIDEWALK		CONCRETE CURB RAMP		SIDEWALK CHASE		CURB AND GUTTER TYPE 2 (SECTION I-B)		GUTTER TYPE 2 (4 FOOT)	
			SY		SY		EACH		LF		LF	
From	To	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
9+99	10+03	LT & RT								33		
9+99	10+20	LT & RT		48								
10+00	14+40	LT & RT	235									
10+00	14+40	LT & RT						575				
10+26	13+21	RT								295		
13+30	13+41	LT		17								
13+42	13+67	LT								25		
13+66	13+70	LT		7								
14+12		LT				1						
14+40	18+80	LT	201									
14+40	18+80	LT & RT						987				
15+24		LT				1						
15+89		LT				1						
17+31		LT				1						
18+80	19+20	LT	19									
18+80	23+20	LT & RT						774				
19+15		LT		6								
19+39		RT								26		
19+82		LT	13			1						
20+79		RT								26		
21+09	21+23	LT		10								
21+14	23+20	RT								206		
22+80	23+20	LT	19									
22+68	22+79	LT		7								
23+20	24+08	LT	40					89				
23+20	24+02	RT								82		
24+08	27+11	RT						303				
Project Total			527	95	5		2,728		693			

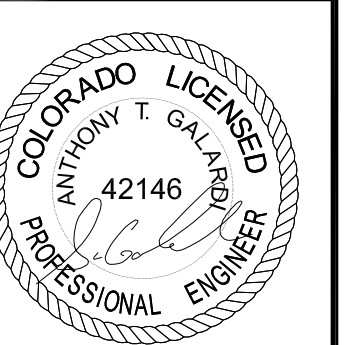


1670 BROADWAY, SUITE 3400
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REVISION DESCRIPTION

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SODA CREEK ROAD IMPROVEMENTS
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IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

TABULATIONS OF SIGNING AND STRIPING

SHEET NO.
C.05

Tabulation of Signs

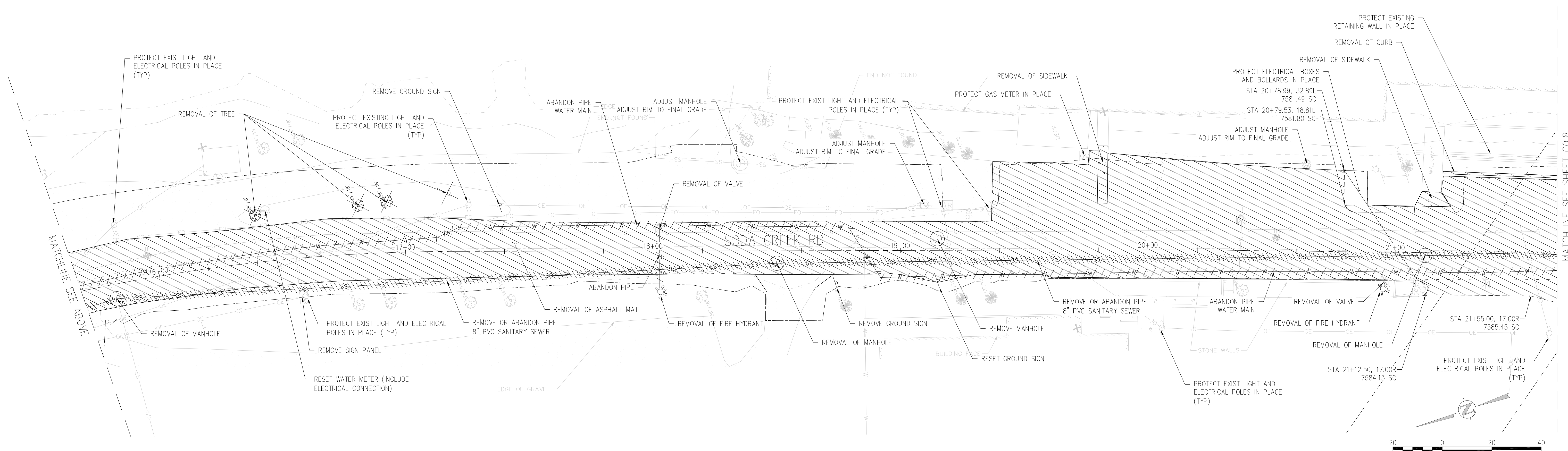
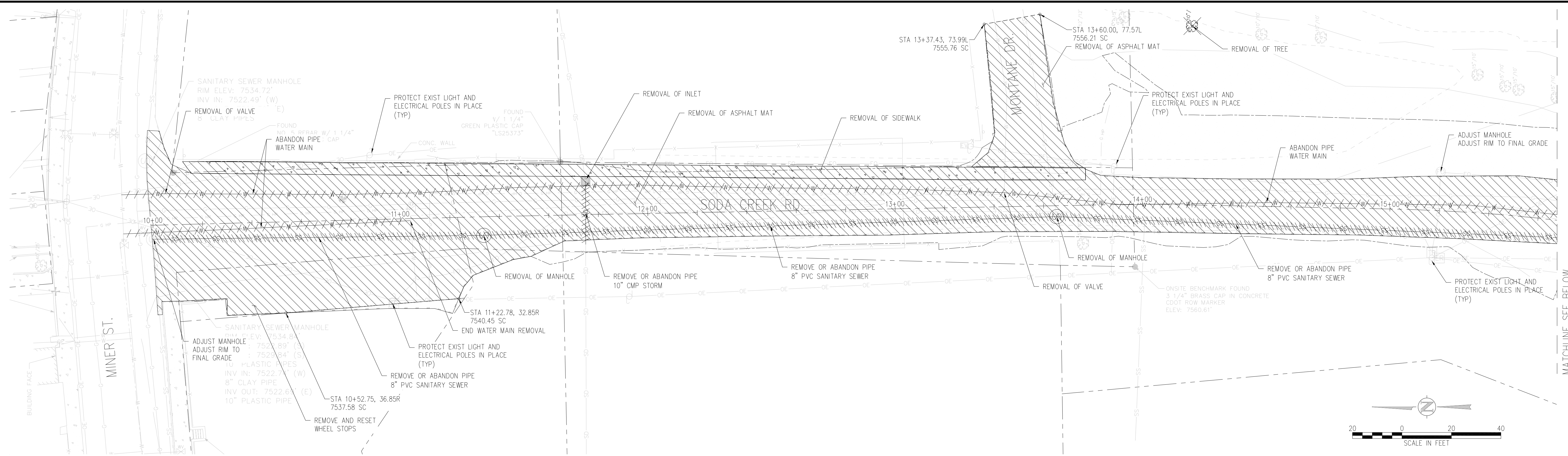
Sign No.	Sign Code	Station	Location	Side	Sign Panel Size			Background Color	210-00810 RESET GROUND SIGN	No. of Posts	Post Type		Sign Panel	Remarks
											614-01502 STEEL SIGN SUPPORT (2 INCH ROUND)(POST & SOCKET) (POST & SLIPBASE)	614-01578 STEEL SIGN SUPPORT (2-1/2 INCH ROUND NP-40) (POST & SLIPBASE)	614-00011 CLASS I	
					W"	x	H"				LF	LF	SF	
SS1	R1-1	10+16	SODA CREEK RD	LT	30	x	30	RED		1	10.50		6.25	
SS2	R1-1	13+38	MONTANE DR	LT	30	x	30	RED		1	10.50		6.25	
SS3	R2-1(15)	13+82	SODA CREEK RD	RT	24	x	30	WHITE		1	10.50		5.00	
SS4	R7-2a	14+42	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS5	R7-2a	14+78	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS6	R7-2a	15+50	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS7	R7-2a	16+19	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS8	R7-2a	16+90	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS9	R7-2a	17+71	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS10	R7-2a	18+71	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	(two direction arrow)
SS11	W11-2	18+74	SODA CREEK RD	RT					1					
	W16-9P													
SS12	W17-1	19+16	SODA CREEK RD	RT	30	x	30	YELLOW		1		11.00	6.25	
	W13-1P(15)				18	x	18	YELLOW					2.25	
SS13	W17-1	20+59	SODA CREEK RD	RT	30	x	30	YELLOW		1	10.50		6.25	
SS14	W17-1	20+82	SODA CREEK RD	LT	30	x	30	YELLOW		1	10.50		6.25	
SS15	R7-8	21+35	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	
SS16	R7-8	21+50	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	
SS17	R7-8	21+85	SODA CREEK RD	LT	12	x	18	WHITE		1	9.50		1.50	
SS18	W17-1	24+07	SODA CREEK RD	RT	30	x	30	YELLOW		1	10.50		6.25	
SS19	W17-1	24+26	SODA CREEK RD	LT	30	x	30	YELLOW		1		11.00	6.25	
	W13-1P(6)				18	x	18	YELLOW					2.25	
SS20	W11-2	24+69	SODA CREEK RD	LT					1					
	W16-9P													
SS21	R2-1(15)	25+69	SODA CREEK RD	LT					1					
									18		158.00	22.00	68.25	

FOR INFORMATION ONLY

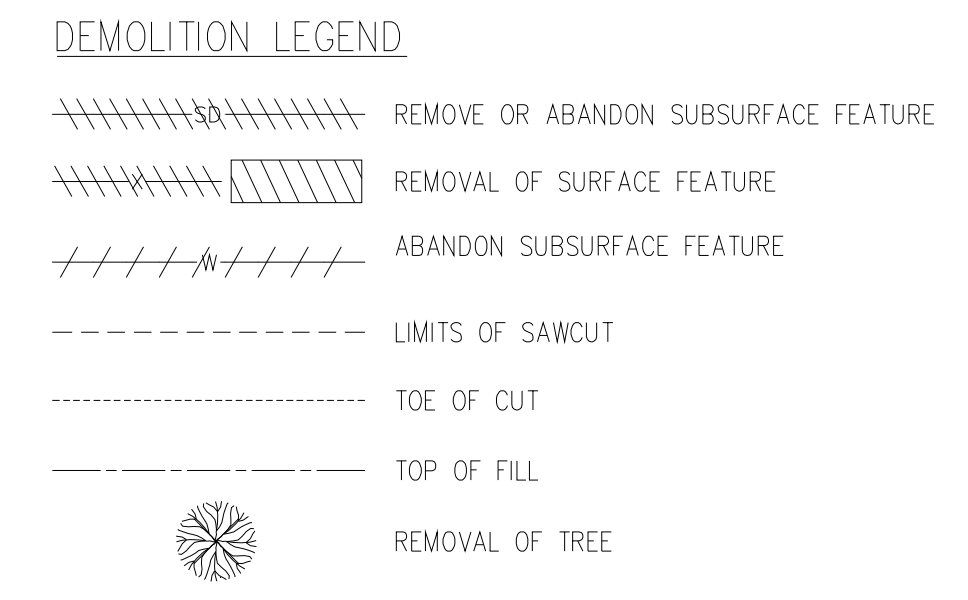
Tabulation of Pavement Markings

Station	Location	627-00005 Epoxy Pavement Marking				627-00070 Preformed Thermoplastic Pavement Marking			
		White Solid 3 Inch	White Solid 4 Inch	Double Yellow Solid 4 Inch	White Solid 6 Inch	Stop Line Solid 24 Inch	Crosswalks (24"x10')	Pedestrian Symbol	Accessible Parking Symbol
		LF	LF	LF	LF	SF	SF	SF	SF
10+00	SODA CREEK RD								
10+14	SODA CREEK RD					35			
10+13	14+40			427					
10+30	10+93	160							
	MONTANE DR						100		
	MONTANE DR					24			
14+12	14+40	57							
14+40	15+09	133							
15+24	15+76	95							
15+89	17+20	266							
17+31	18+80	247							
14+40	18+80			440					
18+11	18+31				144				
18+80	19+10	57							
19+42	20+77	266							
21+30	22+68	209							
19+12	22+69		357						
19+12	22+75		363						
19+16	22+69						60		
21+30	21+65							36	
21+40	21+60				132				
21+16							100		
18+80	23+20			440					
24+05							100		
23+20	27+60			440					
27+60	29+99			239					
	SODA CREEK RD	1,490	720	1,986	276	59	460	60	36
Pay Quantity Calculations									
	Total Linear Feet	1,490	720	3,972	276				
	Total Square Feet	497	240	1,324	138	59	460	60	36
	Preformed Thermoplastic Pavement Marking (SF)					59	460	60	36
	Pavement Marking Paint (GAL)	6	3	15	2				

C:\pavmarking\pavmarking\02431371\02431371-1685.dwg, 9/07/2018 - 8:50 PM, EBANLEY

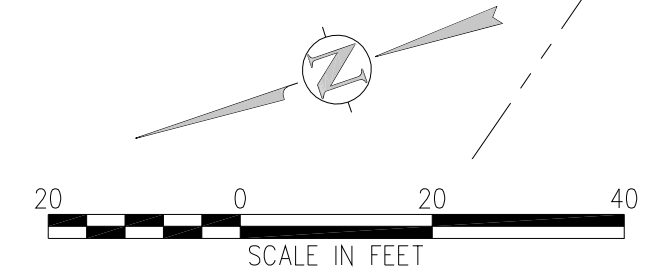
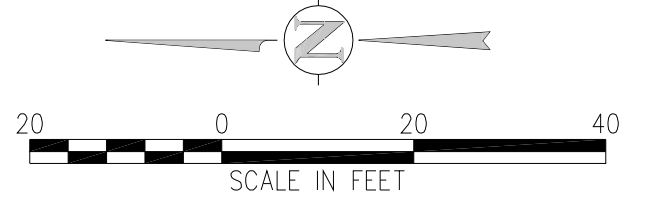


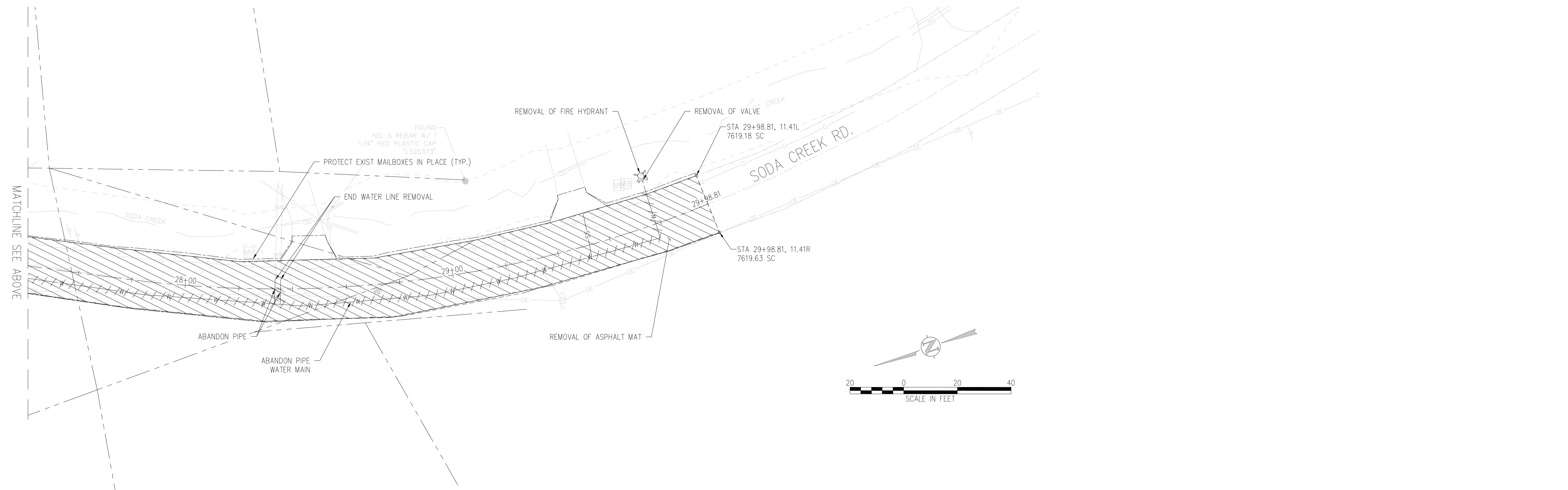
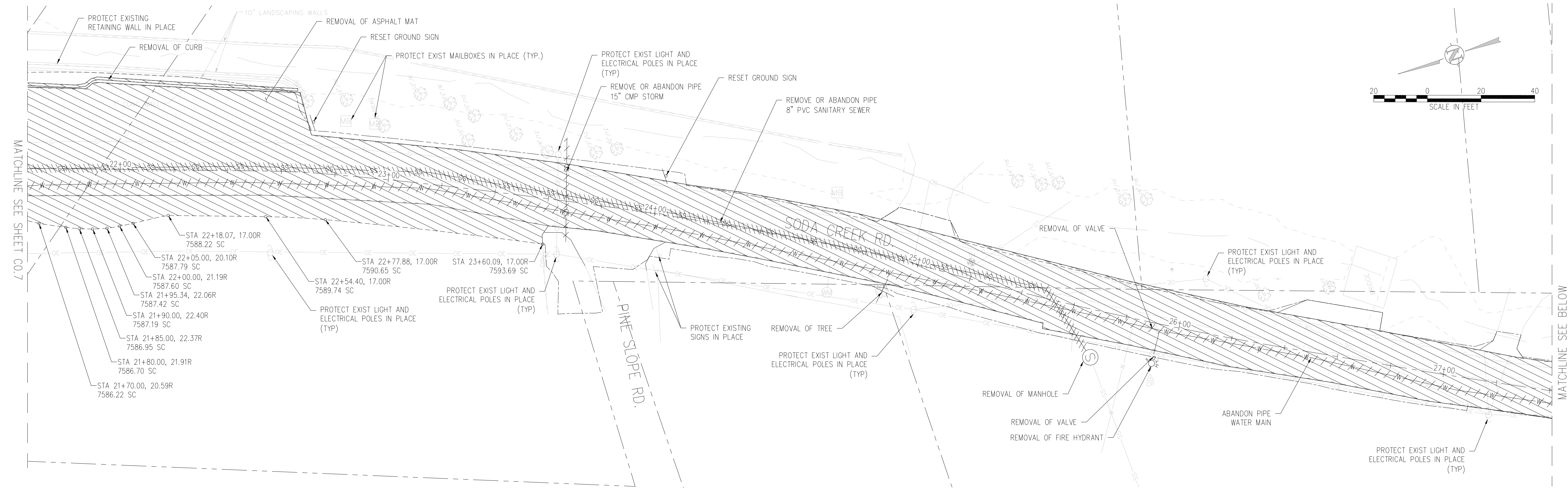
- DEMOLITION NOTES:**
1. CONTRACTOR TO MAINTAIN WATER AND SANITARY SERVICE TO ALL EXISTING CONNECTIONS THROUGHOUT CONSTRUCTION.
 2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
 3. ACTUAL LIMITS MAY VARY. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION AND PHASING PLANS.
 4. ADDITIONAL DEMOLITION MAY BE REQUIRED AND IS TO BE PERFORMED AS PART OF THE BASE CONTRACT.
 5. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION.
 6. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED.
 7. ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE NEAREST JOINT.
 8. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER, MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.
 9. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION.
 10. CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.
 11. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH LANDSCAPE ARCHITECT FOR TREE REMOVAL.
 12. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE TEMPORARY ROUTE AND SIGNAGE AS NEEDED.
 13. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN SERVICES DURING CONSTRUCTION.



MATCHLINE SEE BELOW

MATCHLINE SEE SHEET C0.8

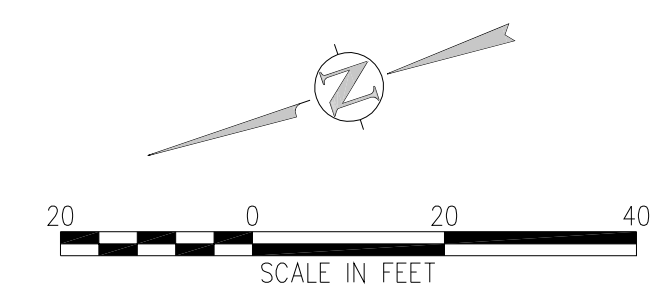
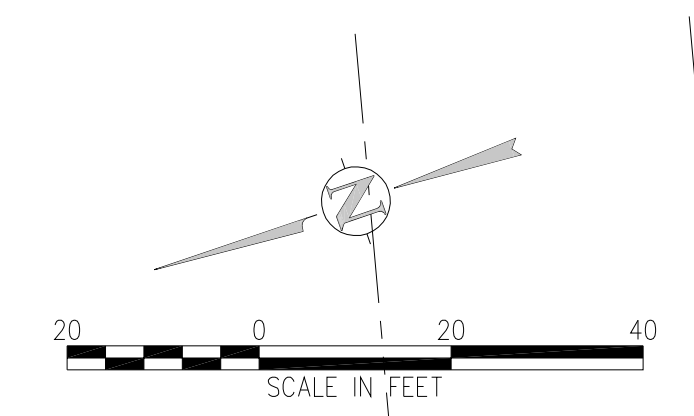




MATCHLINE SEE SHEET CO. 7

MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW



- DEMOLITION NOTES:**
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- DEMOLITION LEGEND**
- REMOVE OR ABANDON SUBSURFACE FEATURE
 - REMOVAL OF SURFACE FEATURE
 - ABANDON SUBSURFACE FEATURE
 - LIMITS OF SAWCUT
 - TOE OF CUT
 - TOP OF FILL
 - REMOVAL OF TREE

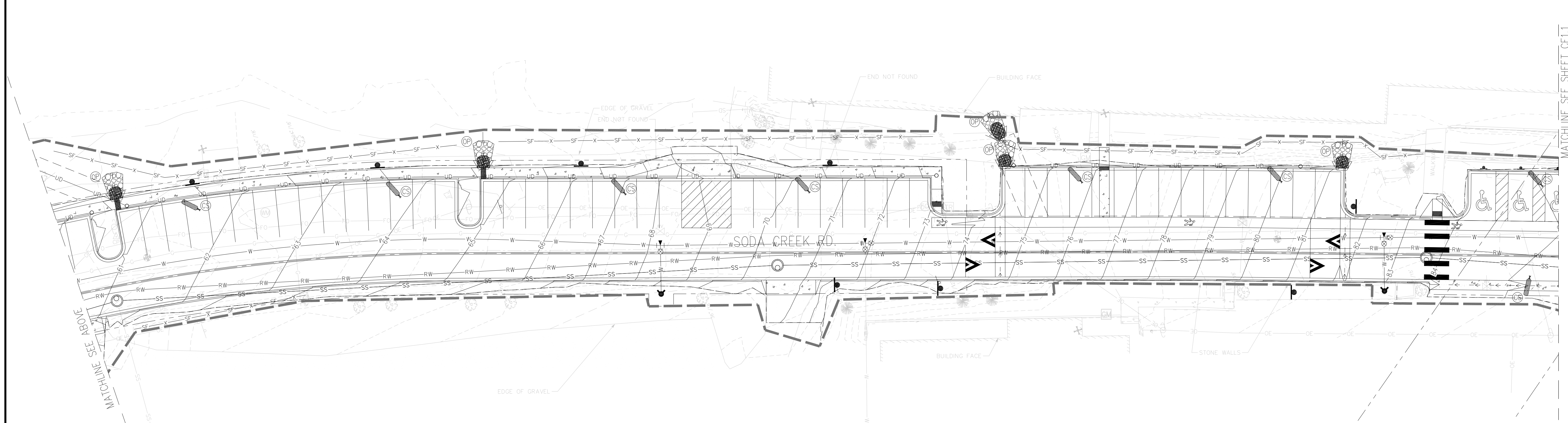
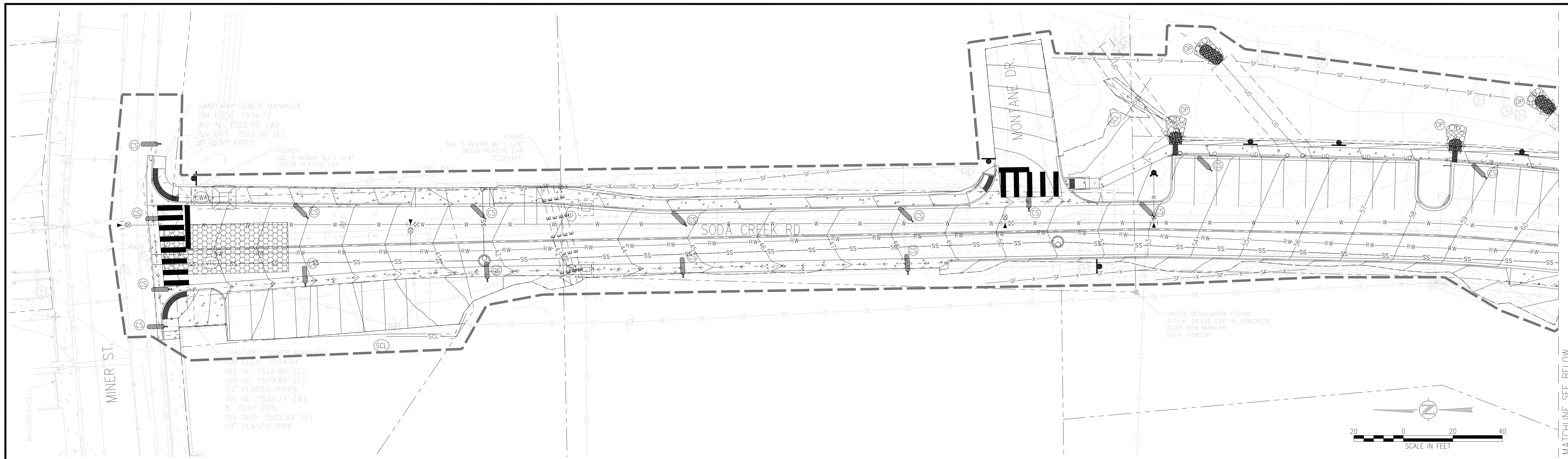


NO.	DATE	DESIGNED BY	DESCRIPTION



DESIGNED BY: EKB
 DRAWN BY: EKB
 CHECKED BY: ATG
 JOB #: 10092835
 DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
 DEMOLITION PLAN

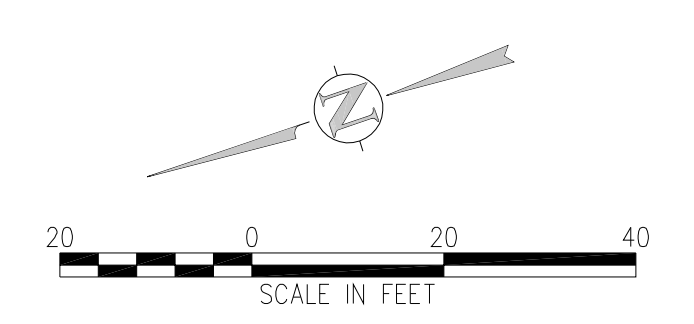
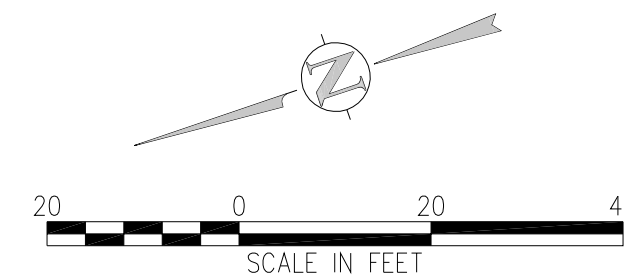
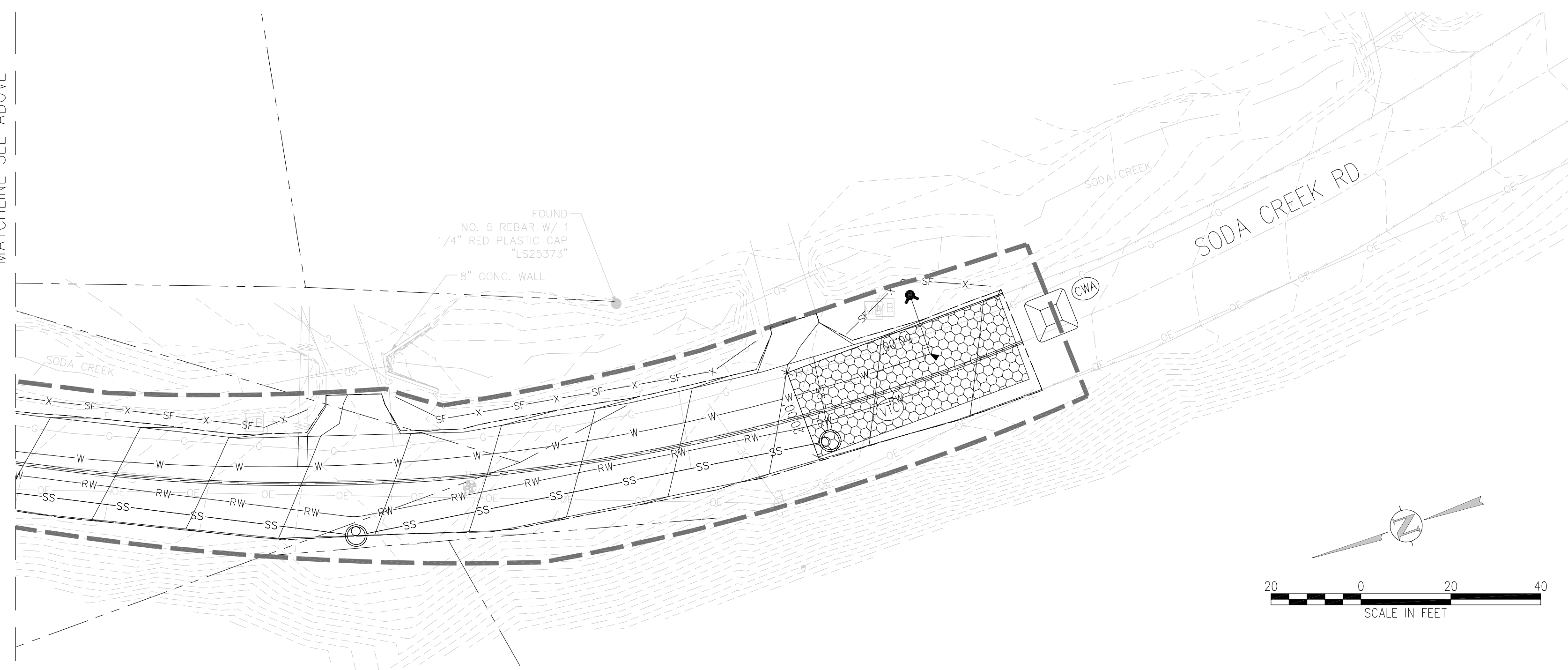
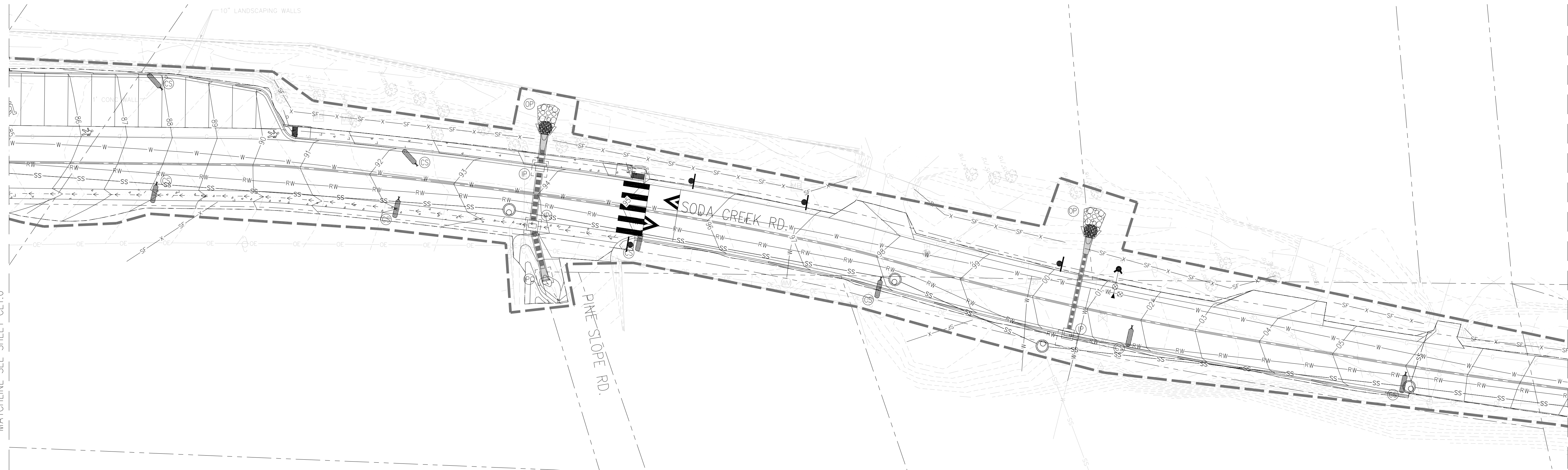


EROSION CONTROL LEGEND

	EXISTING INDEX CONTOUR		TEMPORARY SLOPE DRAIN		EROSION CONTROL BLANKET
	EXISTING INTERMEDIATE CONTOUR		DIVERSION DITCH		CHANNEL STABILIZATION MATTING
	PROPOSED INDEX CONTOUR		SEDIMENT CONTROL LOG		SURFACE ROUGHENING
	PROPOSED INTERMEDIATE CONTOUR		CURB SOCK		
	LIMITS OF WORK		ROCK CHECK DAM		
	INLET PROTECTION		ROOF DRAIN DOWNSPOUT		
	OUTLET PROTECTION		CONCRETE WASHOUT AREA		
	VEHICLE TRACKING CONTROL		TEMPORARY SEDIMENTATION POND		
	STRAW BALE EROSION BARRIER				
	SILT FENCE				
	CONSTRUCTION FENCE				

EROSION AND SEDIMENTATION NOTES:

- CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL CONTROLS DURING INITIAL, INTERIM, AND FINAL CONDITIONS.
- ALL CONTROLS SHALL BE INSTALLED WITHIN THE PROPERTY LINES UNLESS OTHERWISE SPECIFIED. WHEN CONSTRUCTION ACTIVITIES DISTURB ADJACENT AND/OR RIGHT-OF-WAY PROPERTIES, COORDINATION WITH PROPERTY OWNERS IS REQUIRED PRIOR TO CONSTRUCTION.



EROSION CONTROL LEGEND

- | | | | | | |
|--|-------------------------------|--|------------------------------|--|-------------------------------|
| | EXISTING INDEX CONTOUR | | TEMPORARY SLOPE DRAIN | | EROSION CONTROL BLANKET |
| | EXISTING INTERMEDIATE CONTOUR | | DIVERSION DITCH | | CHANNEL STABILIZATION MATTING |
| | PROPOSED INDEX CONTOUR | | SEDIMENT CONTROL LOG | | SURFACE ROUGHENING |
| | PROPOSED INTERMEDIATE CONTOUR | | CURB SOCK | | |
| | LIMITS OF WORK | | ROCK CHECK DAM | | |
| | INLET PROTECTION | | ROOF DRAIN DOWNSPOUT | | |
| | OUTLET PROTECTION | | CONCRETE WASHOUT AREA | | |
| | VEHICLE TRACKING CONTROL | | TEMPORARY SEDIMENTATION POND | | |
| | STRAW BALE EROSION BARRIER | | | | |
| | SILT FENCE | | | | |
| | CONSTRUCTION FENCE | | | | |

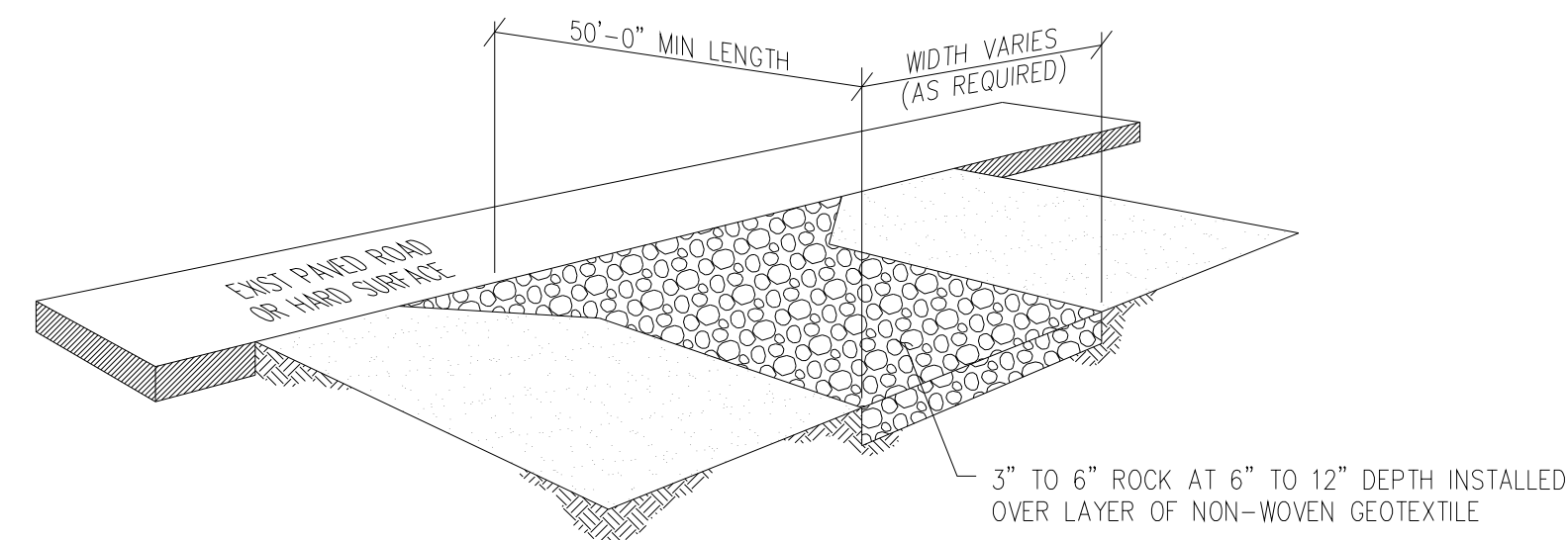
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NO.	DATE	DES'D	DWN	REVISION DESCRIPTION



DESIGNED BY: EKB
 DRAWN BY: EKB
 CHECKED BY: ATG
 JOB #: 10092835
 DATE: 09/04/2018

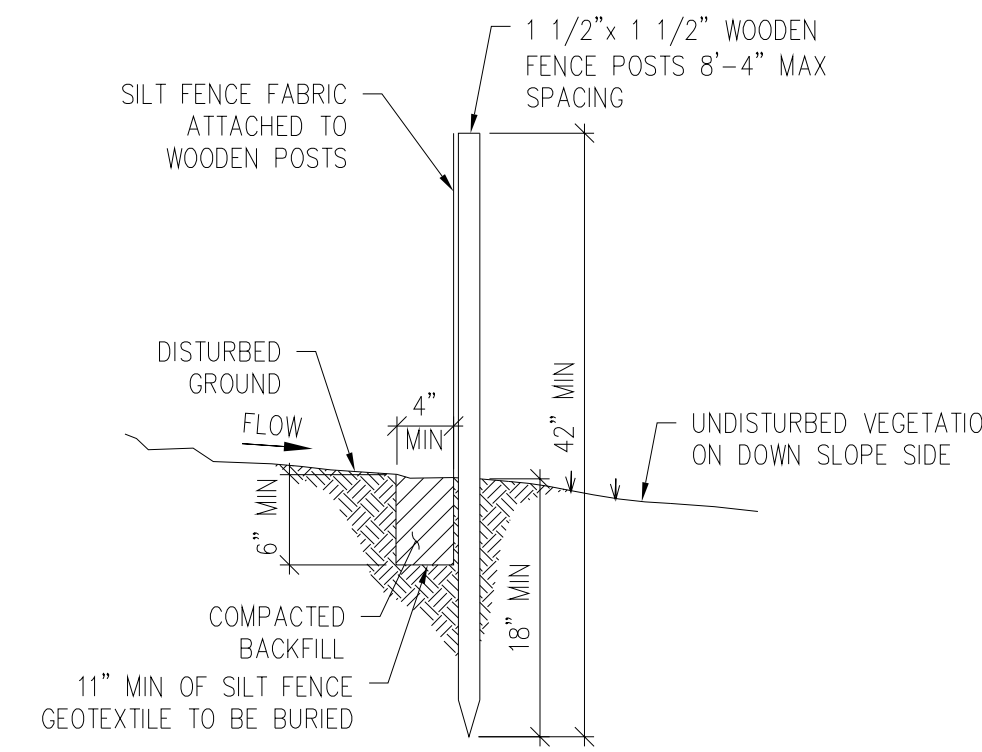
SODA CREEK ROAD IMPROVEMENTS
 0-408 SODA CREEK RD.
 IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
 EROSION CONTROL PLAN



NOTES:

1. VEHICLE TRACKING CONTROL PADS SHALL BE INSTALLED AT ALL INGRESS/EGRESS POINTS WHERE VEHICULAR ACCESS TRANSITIONS FROM PAVED SURFACES TO DISTURBED SURFACES.
2. THE VTC PAD SHALL CONSIST OF HARD, ANGULAR, DENSE, AND DURABLE STONE. ROUNDED STONE, BOULDERS, RECYCLED ASPHALT, AND RECYCLED CONCRETE ARE NOT ACCEPTABLE.
3. ANY CRACKED OR DAMAGED CURB AND/OR GUTTER SHALL BE REPLACED BY THE CONTRACTOR.
4. PAD WILL BE REPAIRED AND REFRESHED AS NEEDED TO MAINTAIN FUNCTION AND INTEGRITY.
5. VTC PADS SHALL BE INSTALLED AT ALL CONCRETE WASHOUT AREAS AND AT STABILIZED STAGING/STORAGE AREAS.

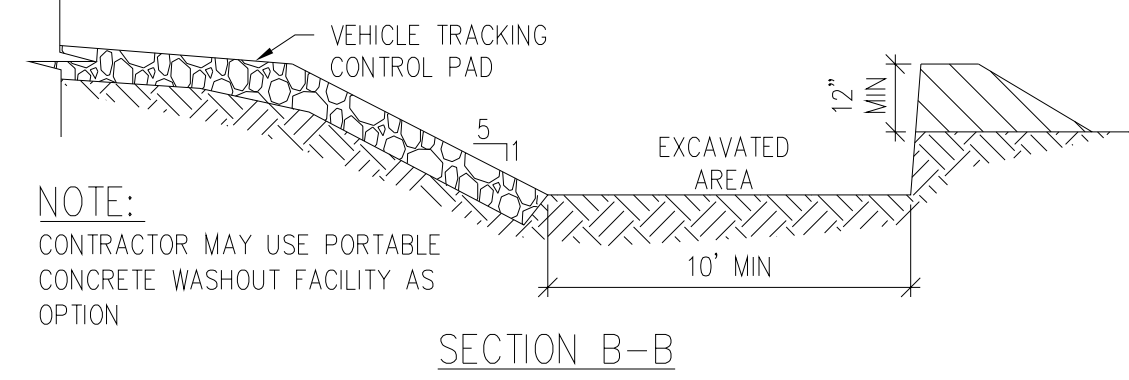
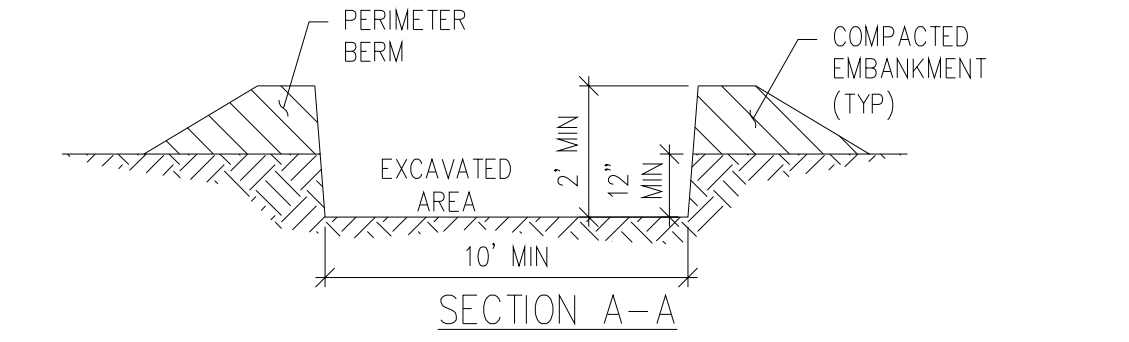
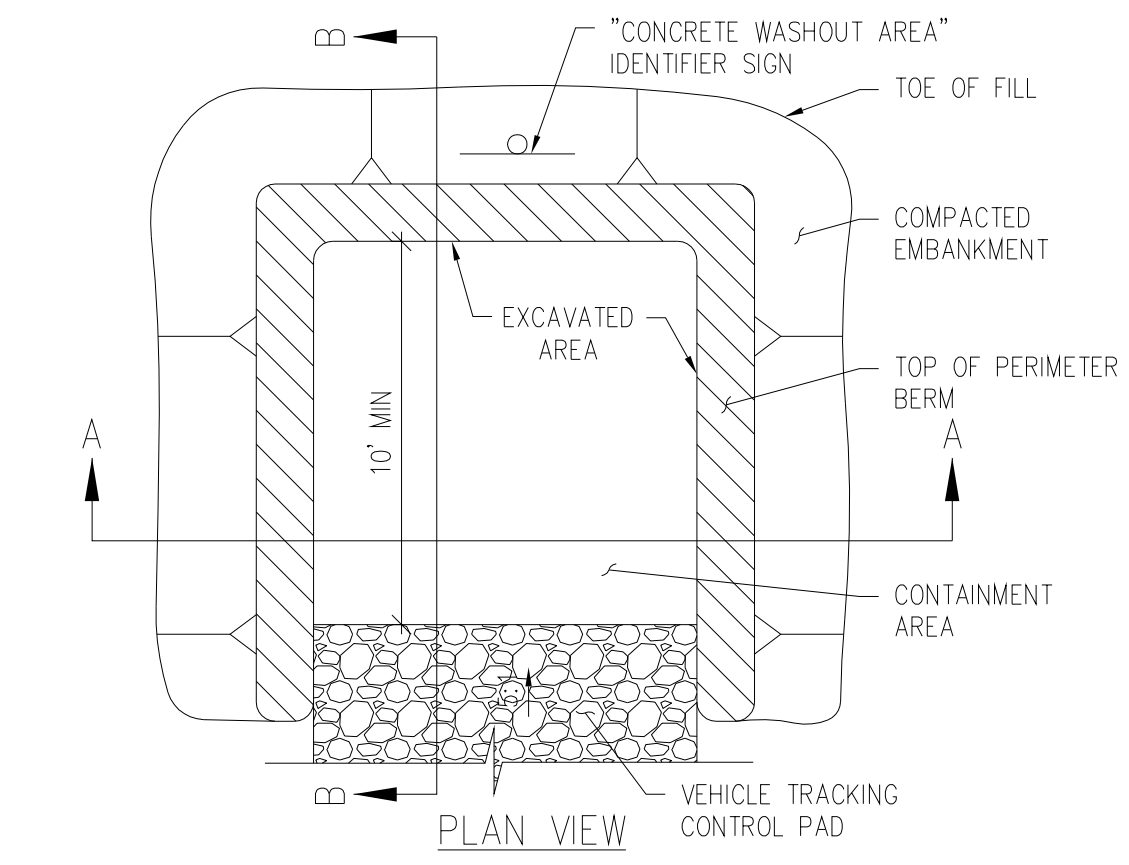
VTC VEHICLE TRACKING CONTROL DETAIL
NTS



NOTES:

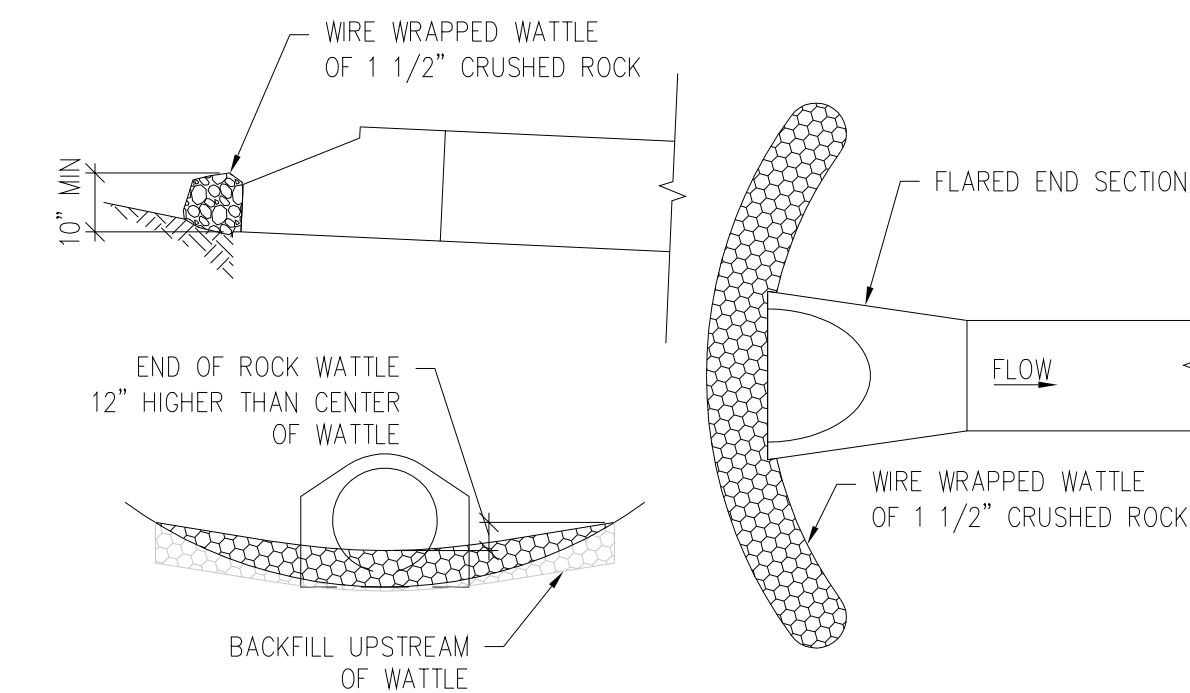
1. SILT FENCE MUST BE PLACED AWAY FROM TOE OF SLOPE TO ALLOW FOR WATER PONDING.
2. SILT FENCE MAY BE USED ALONG PERIMETERS SO LONG AS SLOPES DO NOT EXCEED 5% IF SLOPE IS GREATER THAN 5%, THEN SILT FENCE MAY BE INSTALLED ALONG THE CONTOUR OR A DIVERSION DIKE MAY BE REQUIRED.
3. ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE; NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED. TRENCH SHALL BE COMPACTED BY HAND WITH "JUMPING JACK", OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE INDICATED ON PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES UNLESS NOTED OTHERWISE.
5. SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT REACHES A DEPTH OF 6-INCHES.
6. USE WIRED REINFORCED SILT FENCE AT AREA OF CONCENTRATED FLOWS.

SF SILT FENCE DETAIL
NTS



NOTE:
CONTRACTOR MAY USE PORTABLE CONCRETE WASHOUT FACILITY AS OPTION

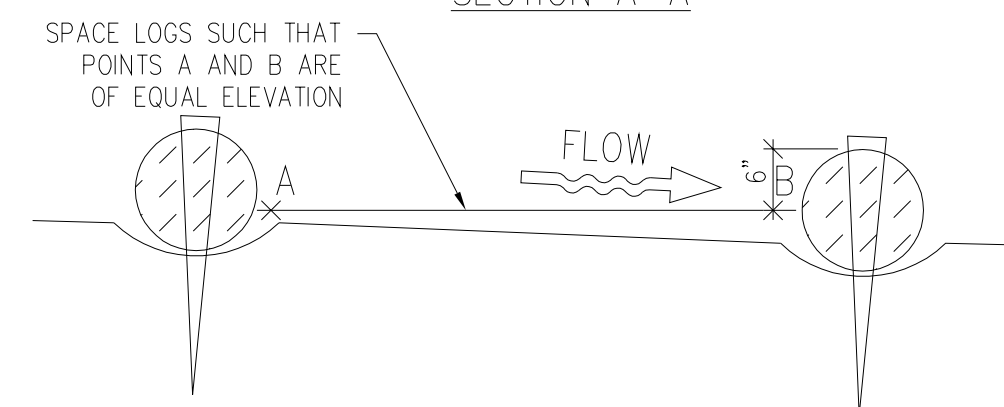
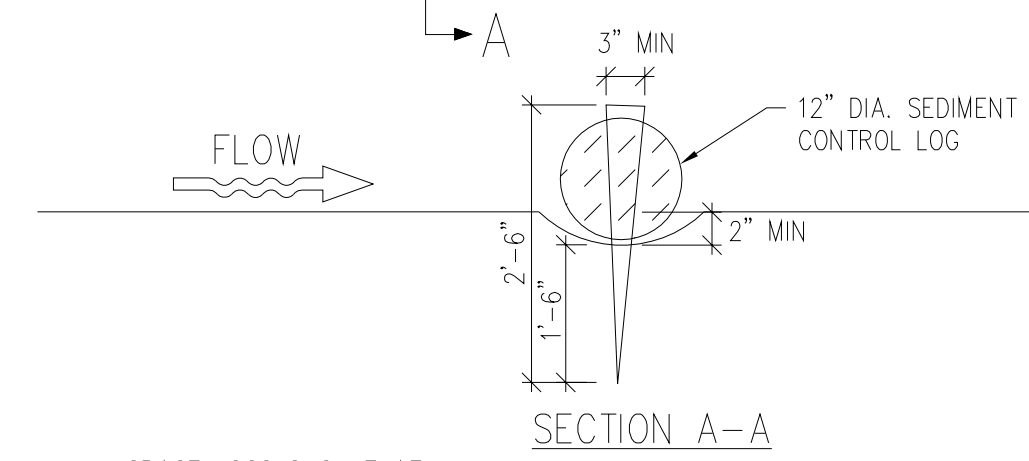
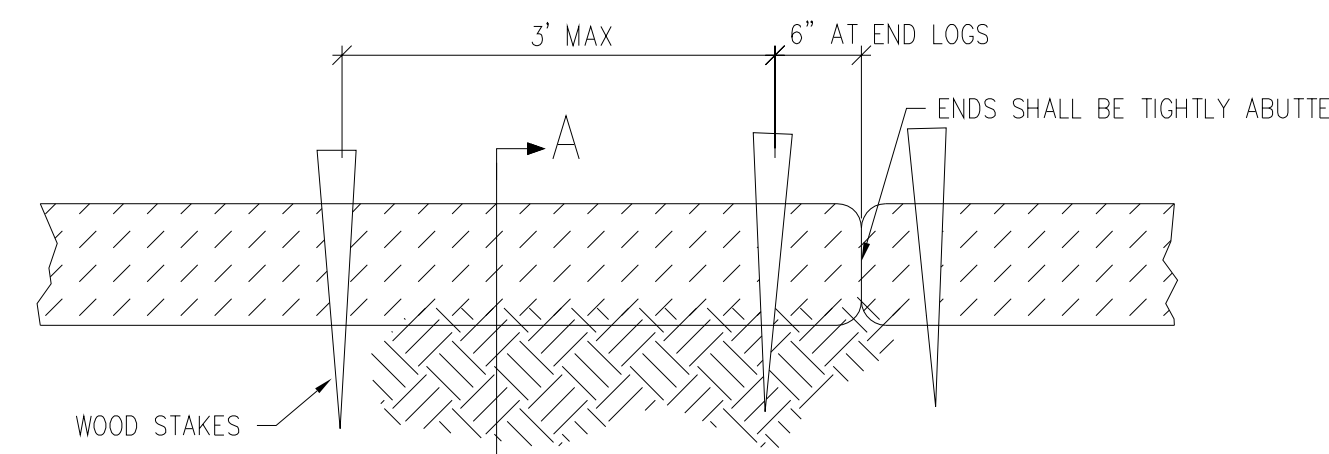
CWA CONCRETE WASHOUT FACILITY DETAIL
NTS



NOTES:

1. INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED WITHIN 72 HOURS OF PLACING OR POURING INLET.
2. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN SEDIMENT DEPTH IS WITHIN 5' OF CREST

IPC CULVERT INLET PROTECTION DETAIL
NTS



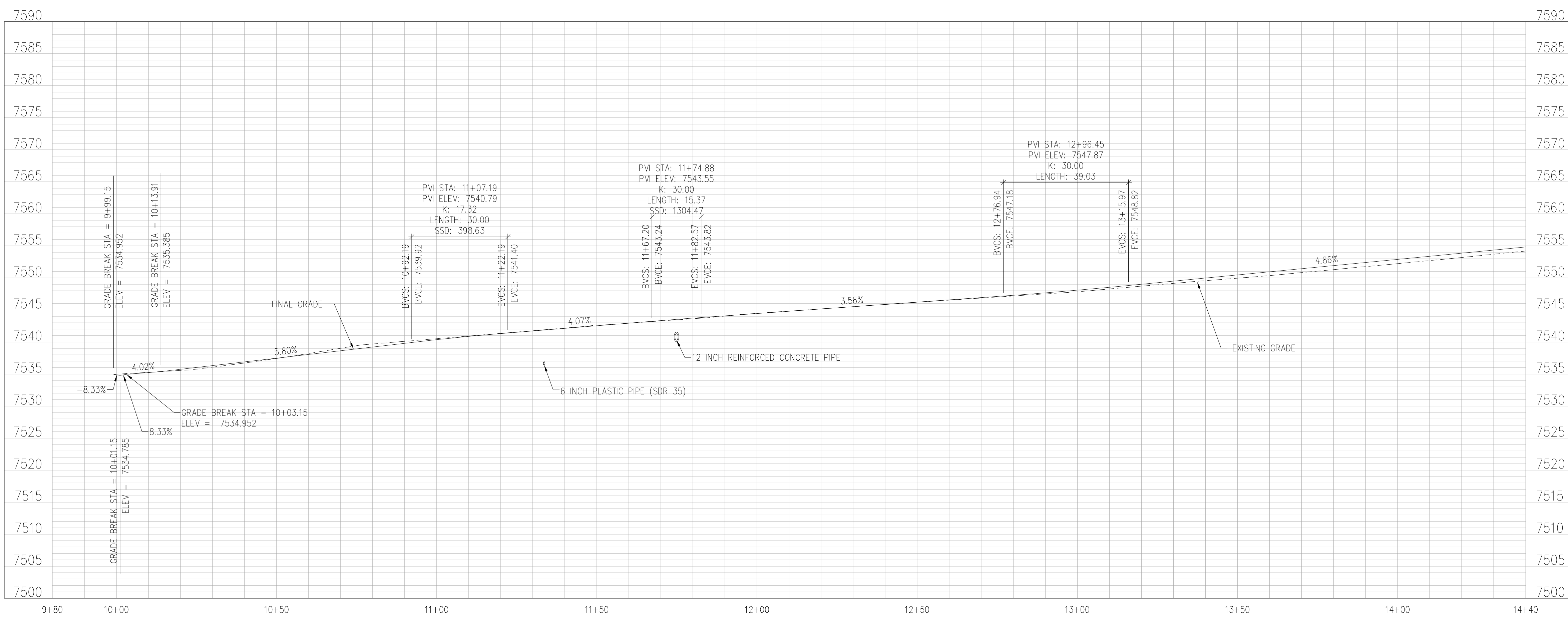
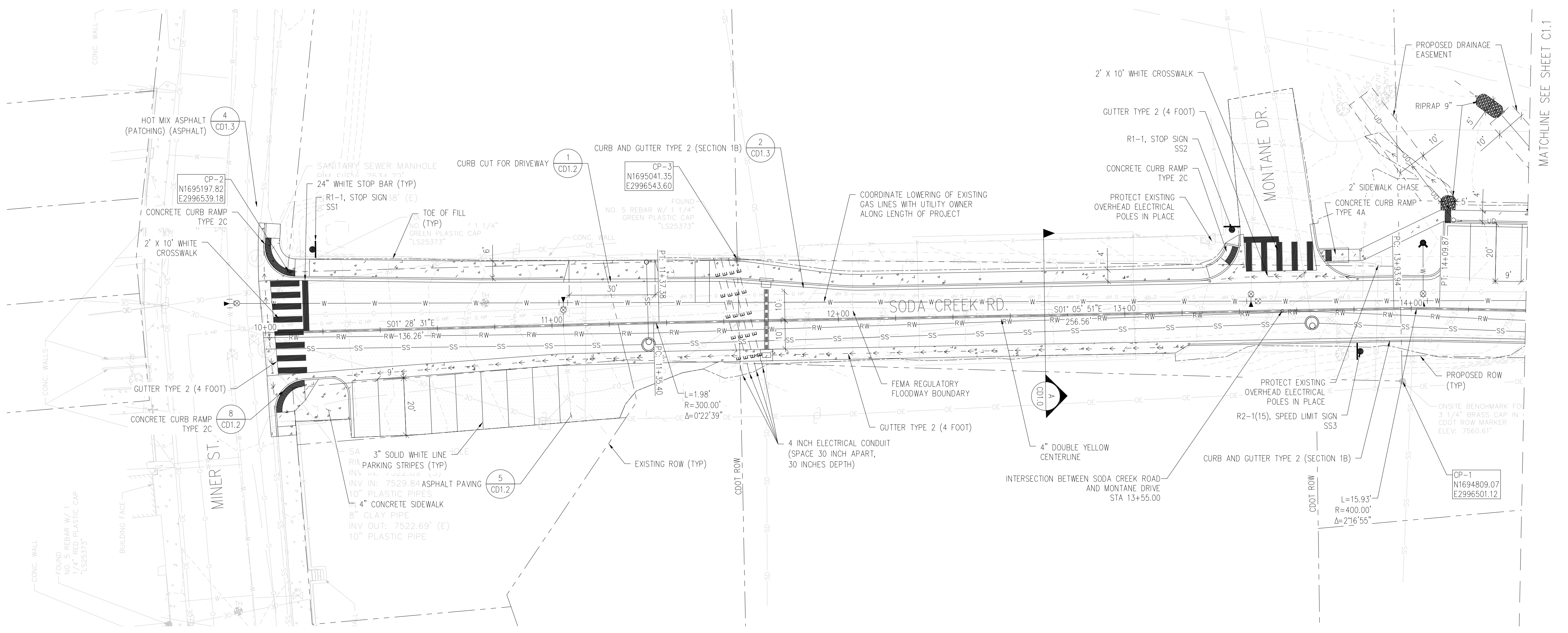
SEDIMENT CONTROL LOG INSTALLATION NOTES:

1. SEE PLAN VIEW FOR LOCATION AND EXTENT OF SEDIMENT CONTROL LOGS.
2. SEDIMENT CONTROL LOGS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES AND AS REQUIRED DURING CONSTRUCTION.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2'.

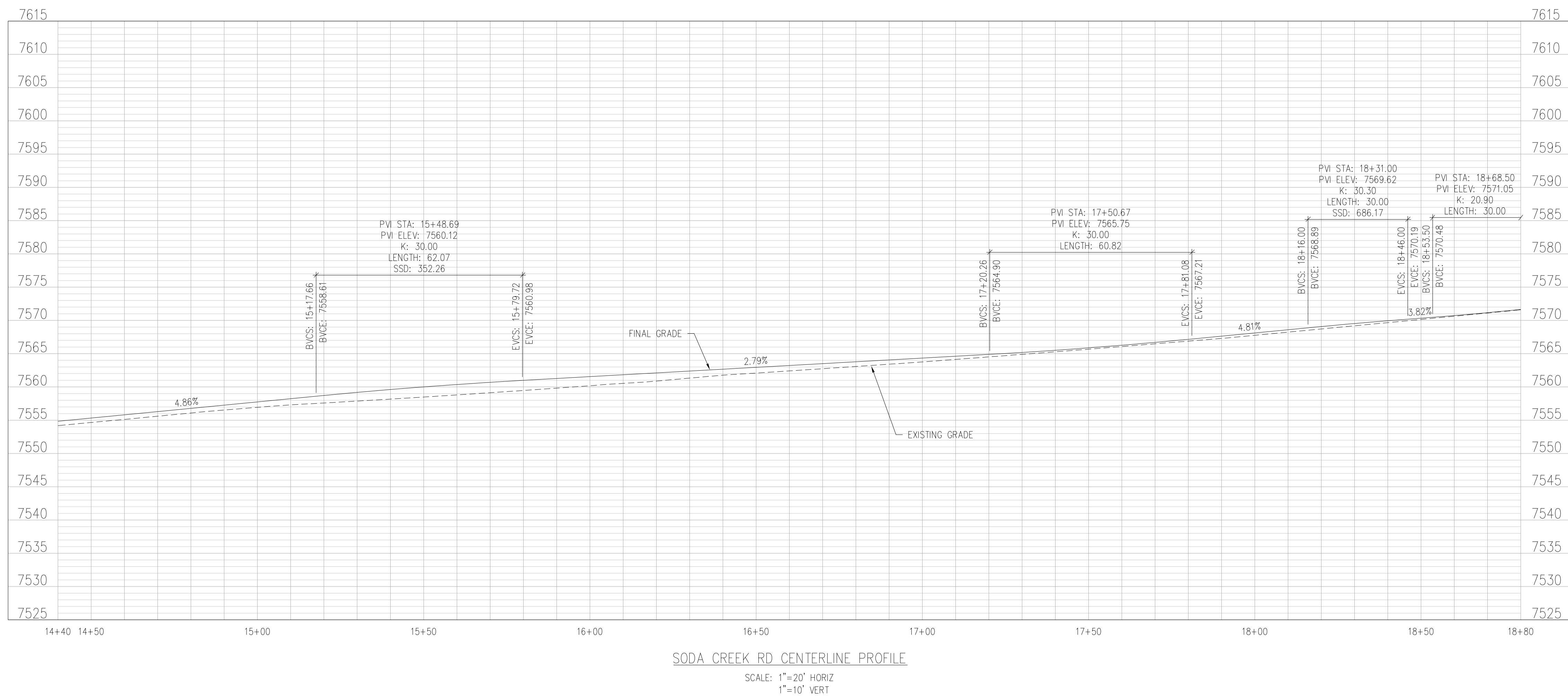
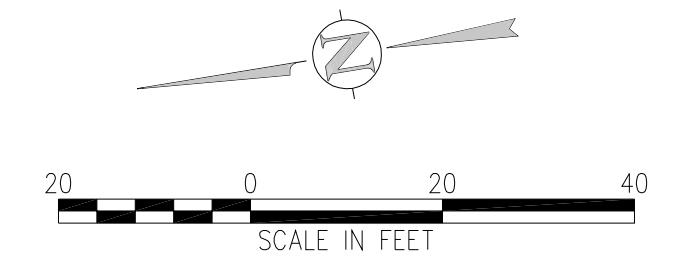
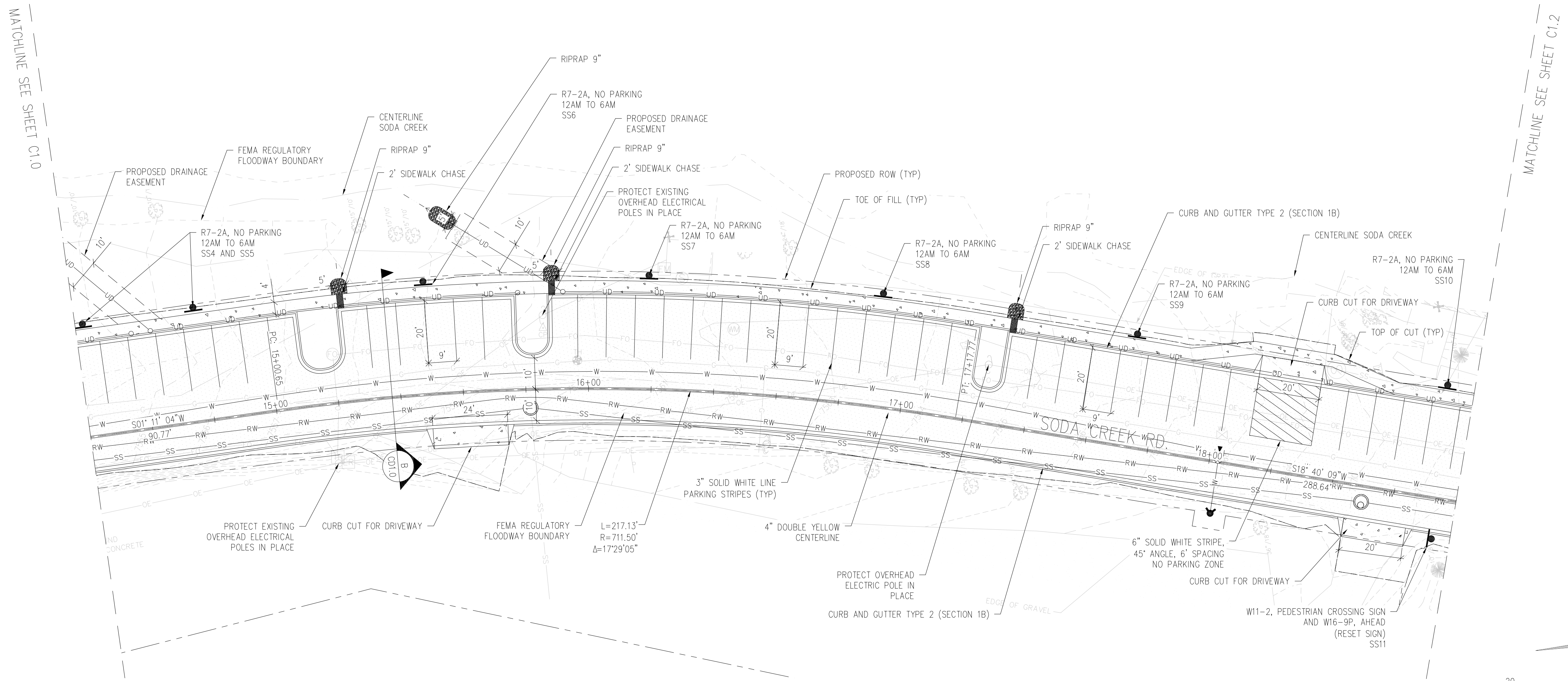
SEDIMENT CONTROL LOG MAINTENANCE NOTES:

1. THE SEDIMENT CONTROL LOGS SHALL BE INSPECTED DAILY, DURING AND AFTER ANY STORM EVENT, AND REPAIRED OR HAVE ANY UPSTREAM SEDIMENT REMOVED.
2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST OF LOG.
3. ALL SEDIMENT CONTROL LOGS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE ACCEPTABLY STABILIZED.

SCL SEDIMENT CONTROL LOG DETAIL
NTS



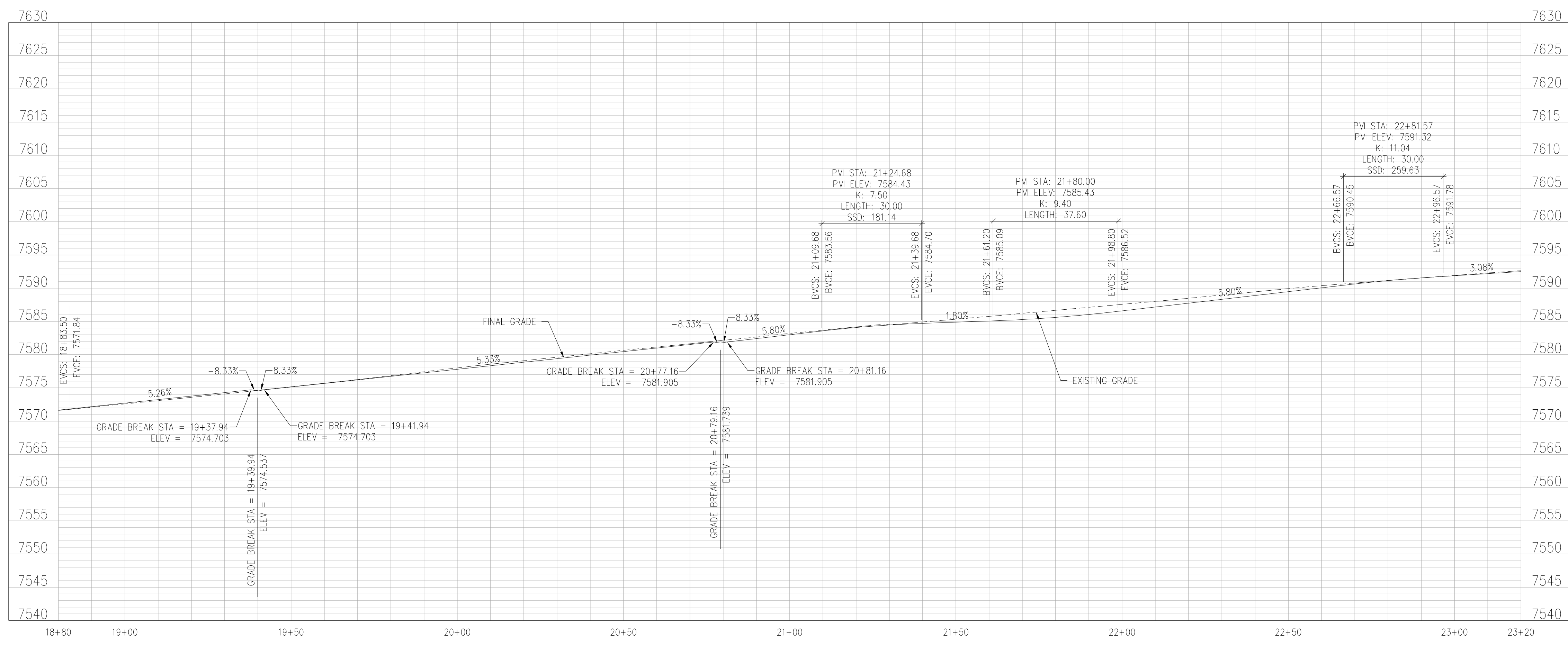
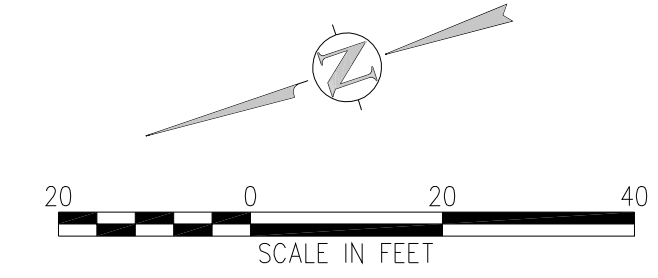
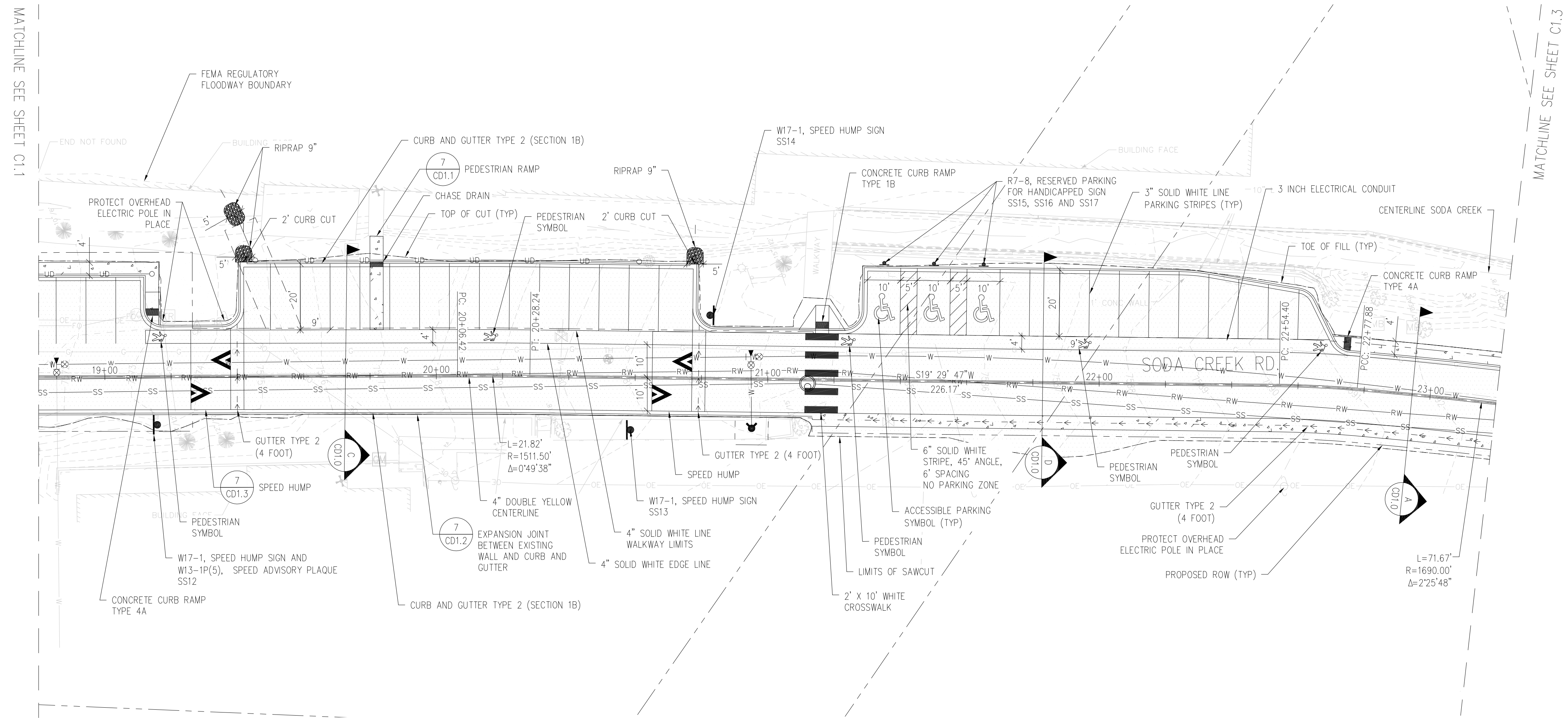
SODA CREEK RD CENTERLINE PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT



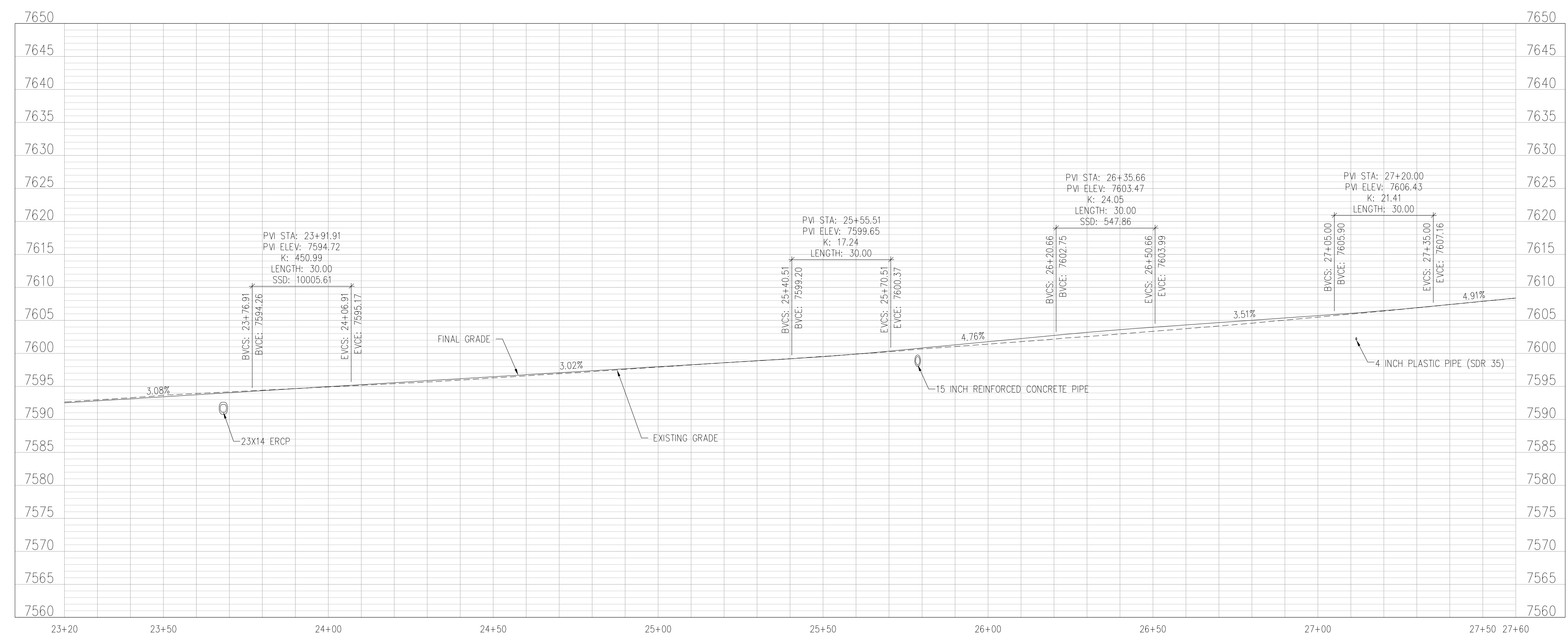
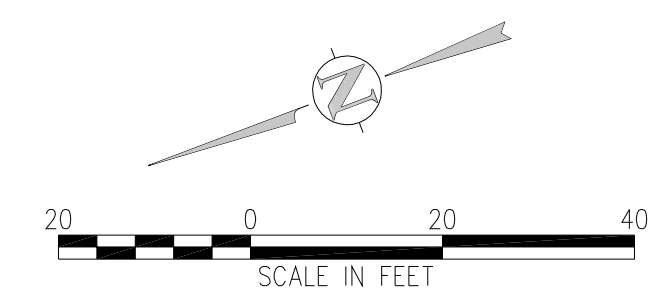
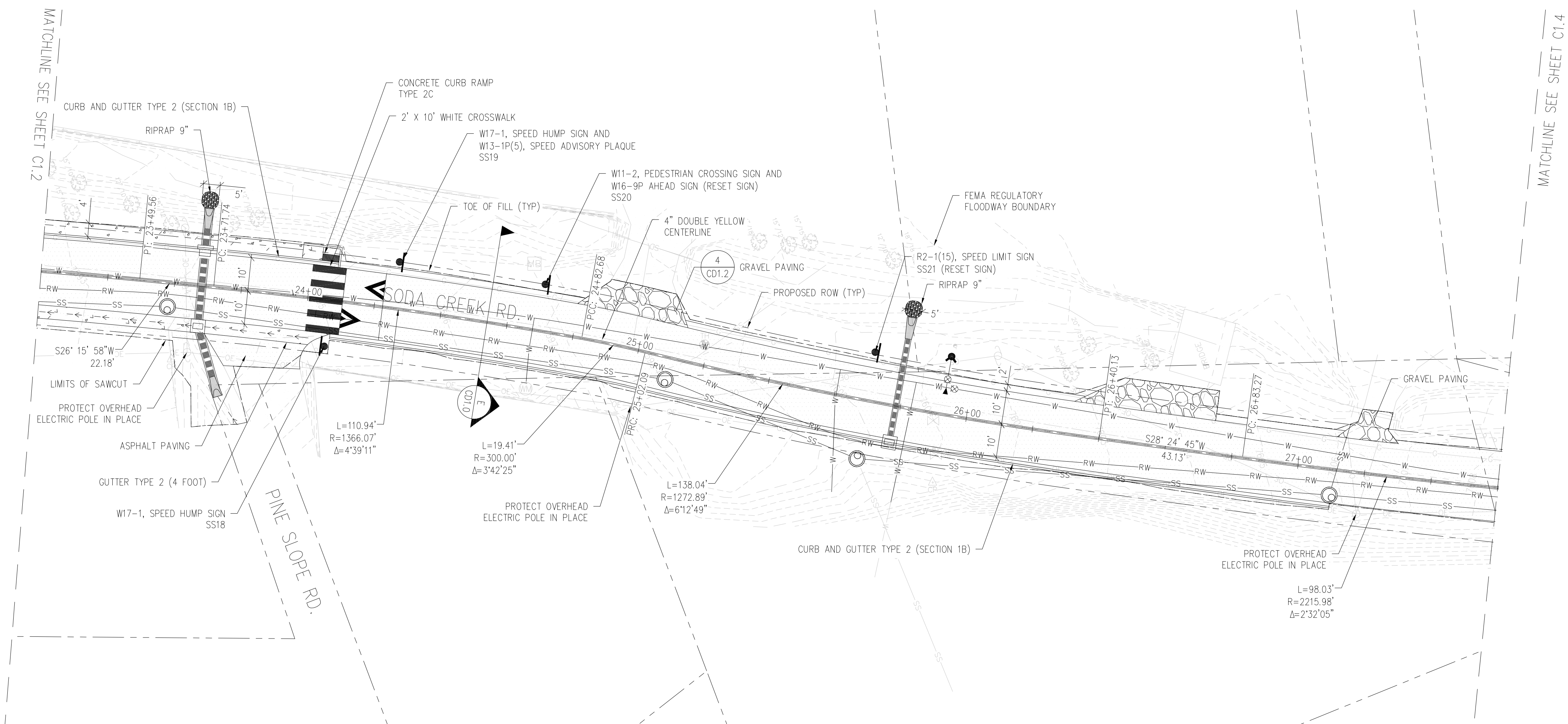
SODA CREEK RD CENTERLINE PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT

MATCHLINE SEE SHEET C1.0

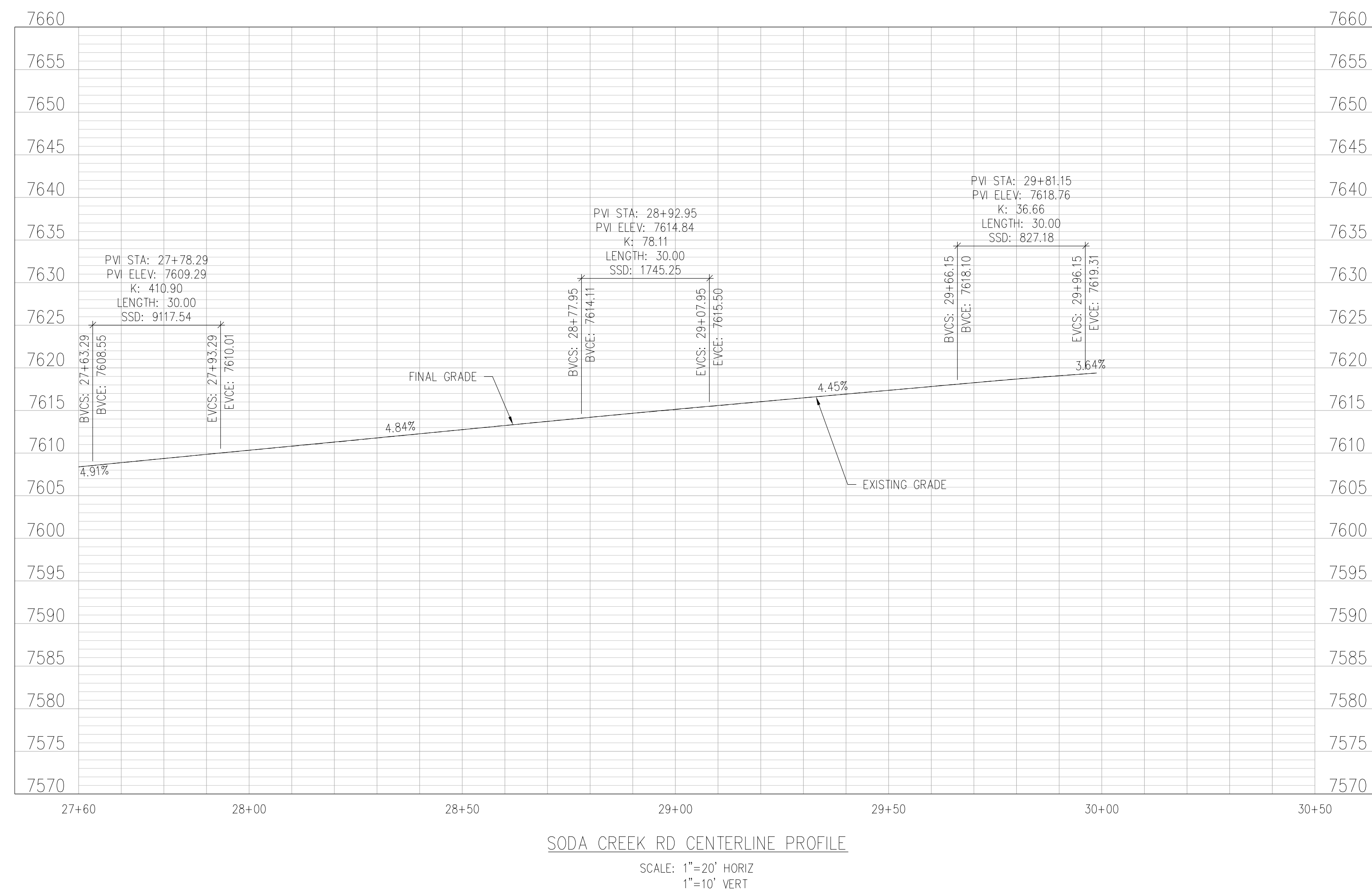
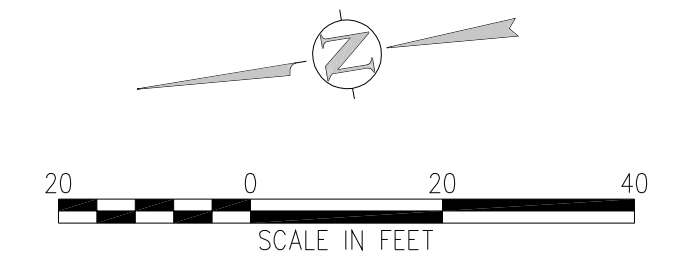
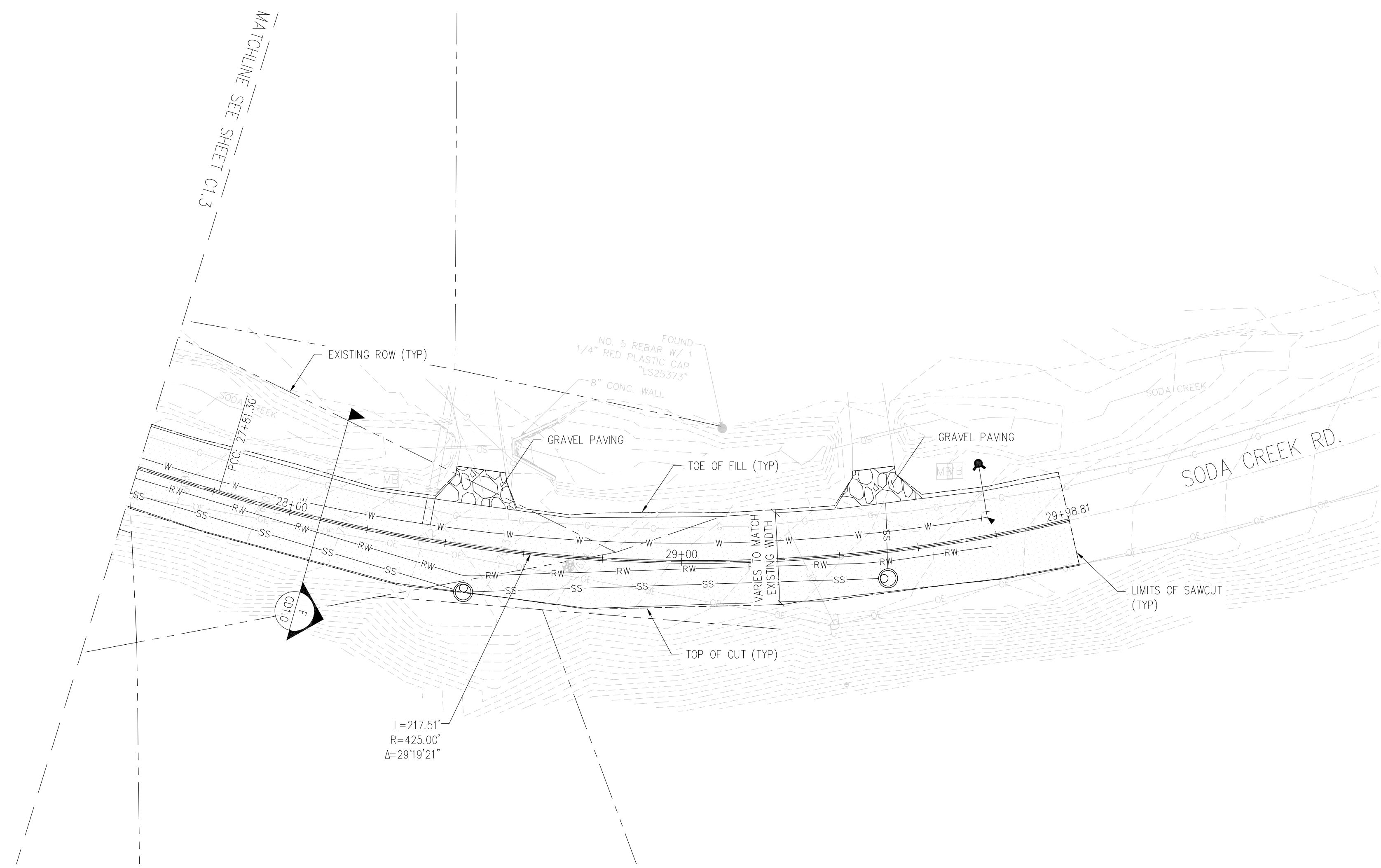
MATCHLINE SEE SHEET C1.2



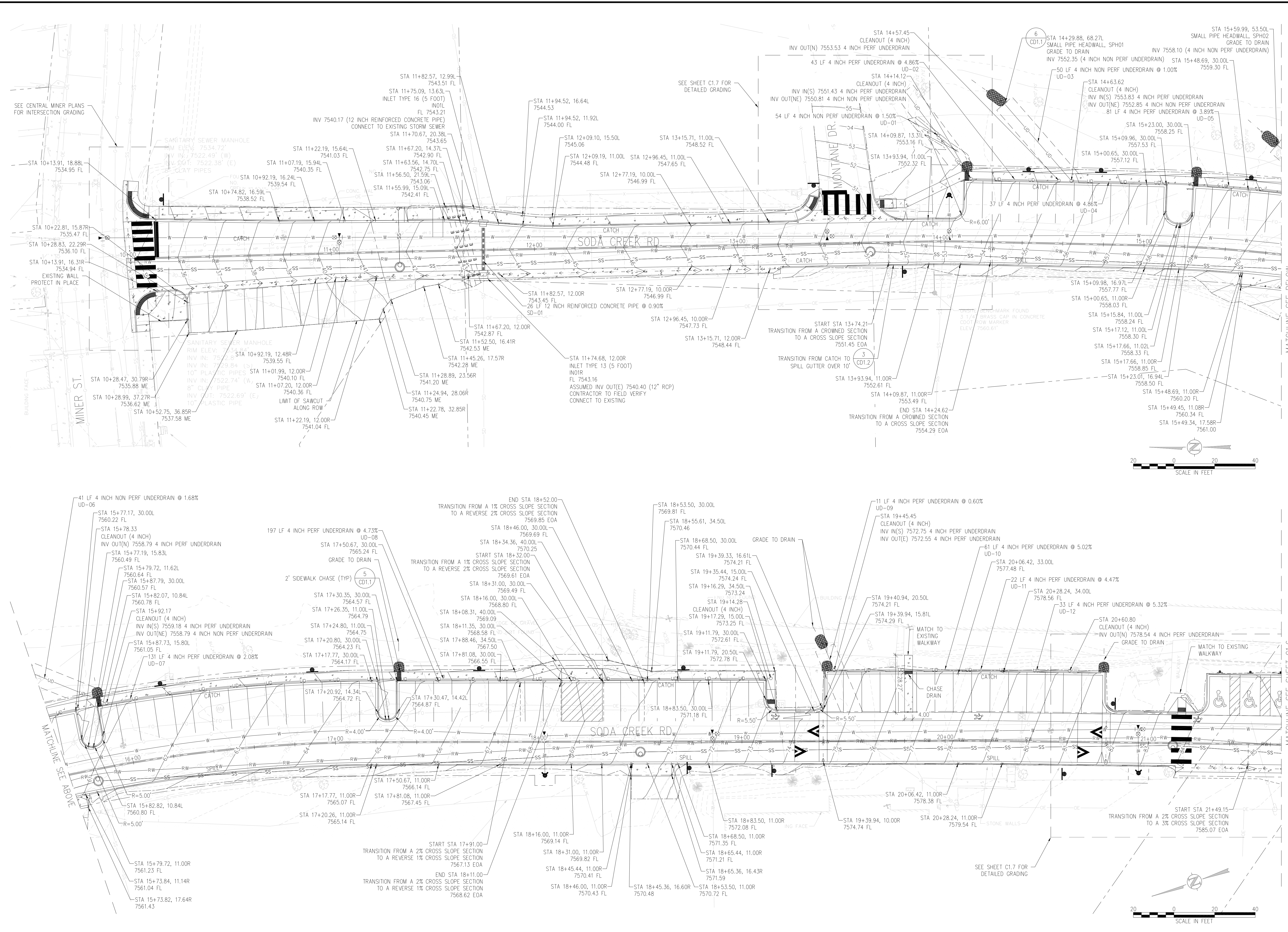
SODA CREEK RD CENTERLINE PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT



SODA CREEK RD CENTERLINE PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT

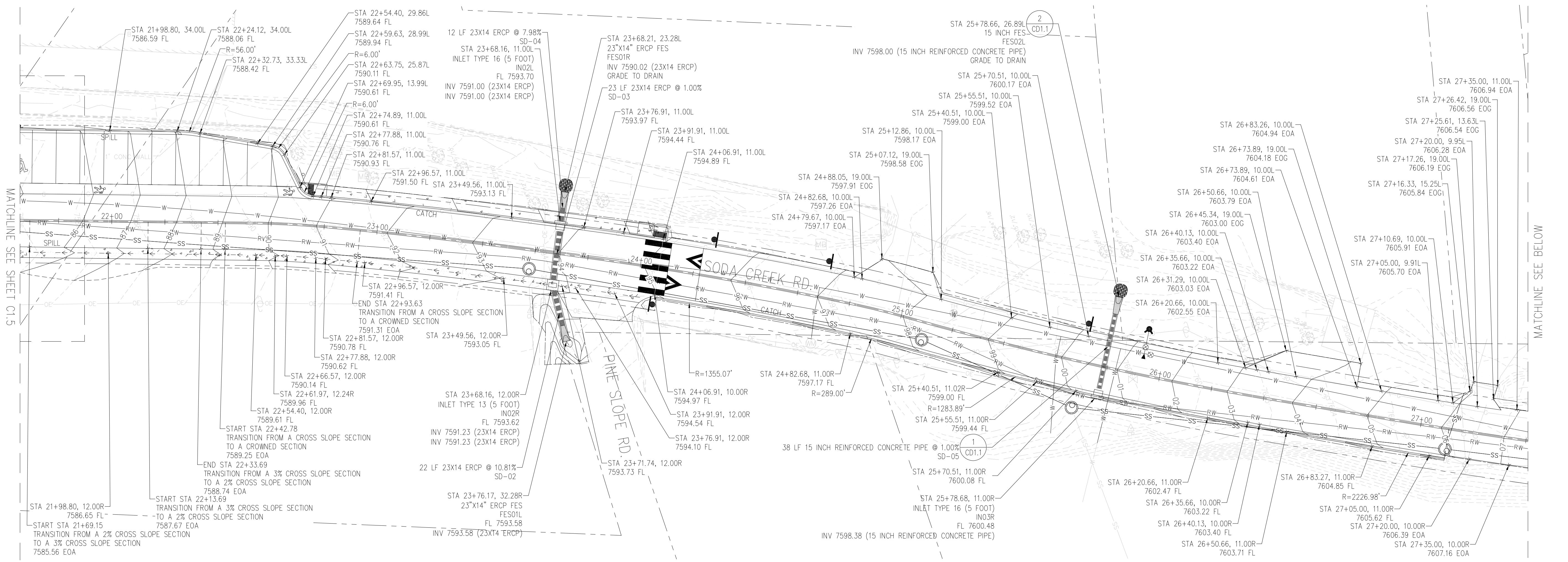


SODA CREEK RD CENTERLINE PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT



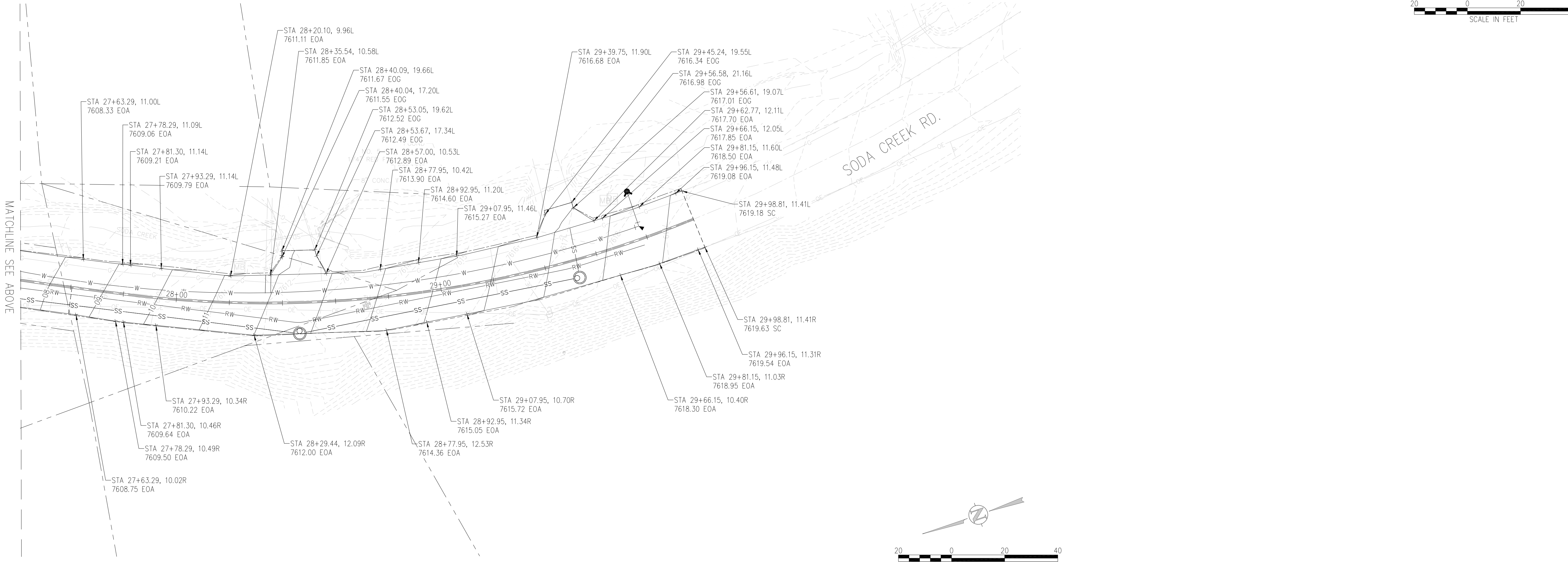
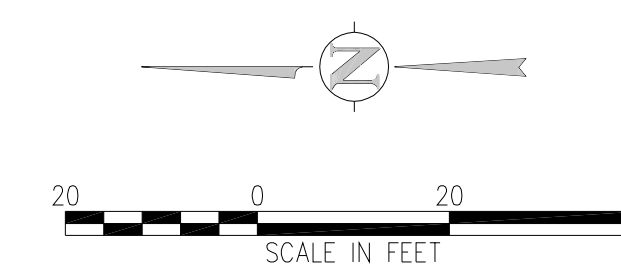
MATCHLINE SEE BELOW

MATCHLINE SEE SHEET C1.6

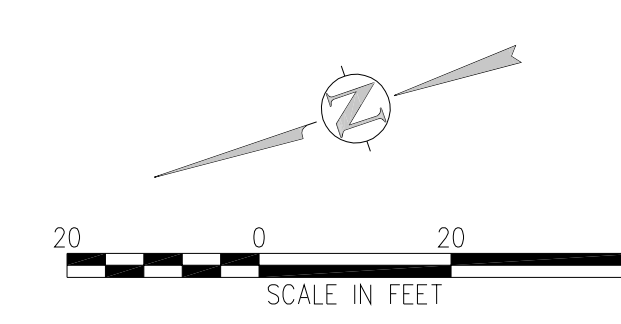


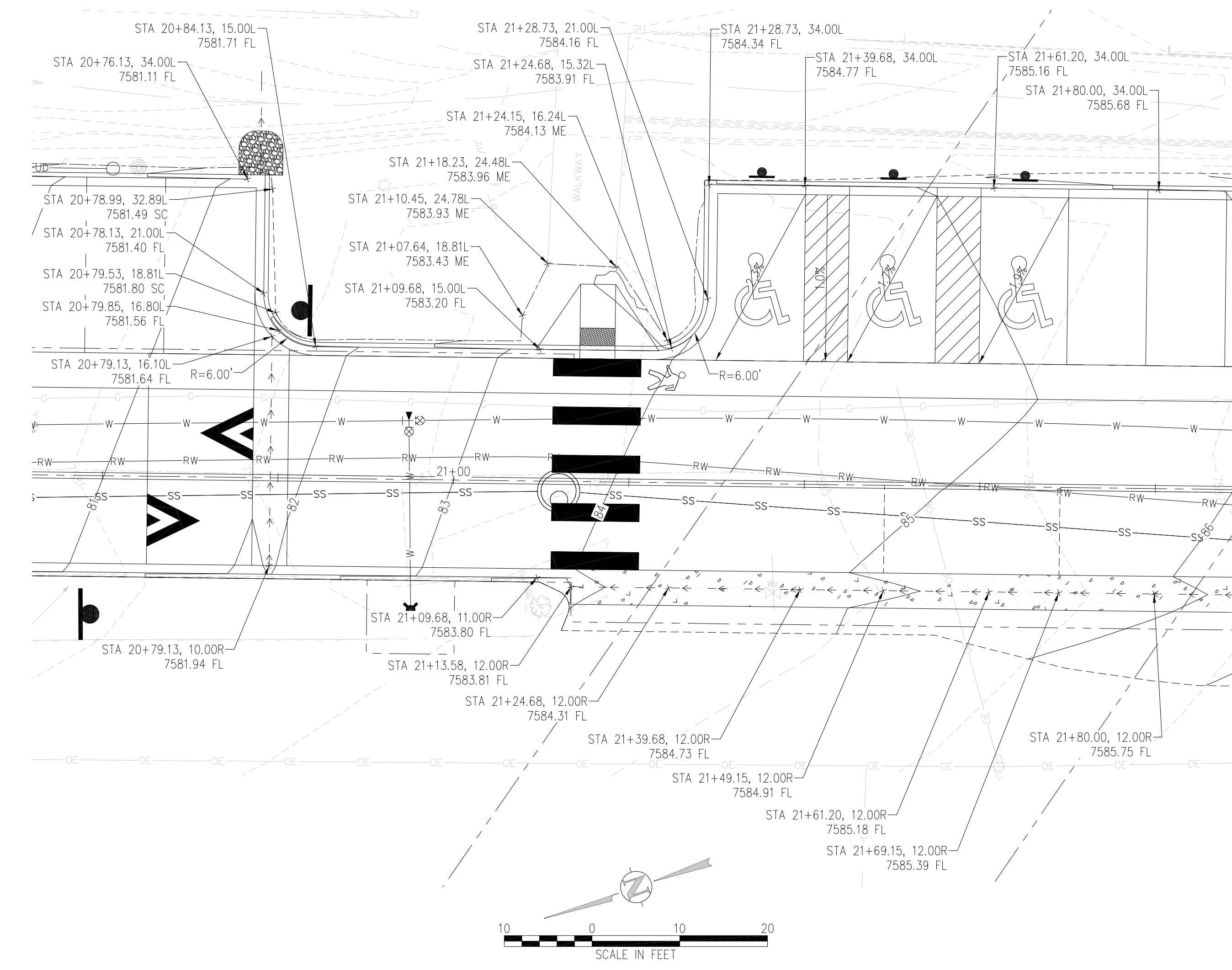
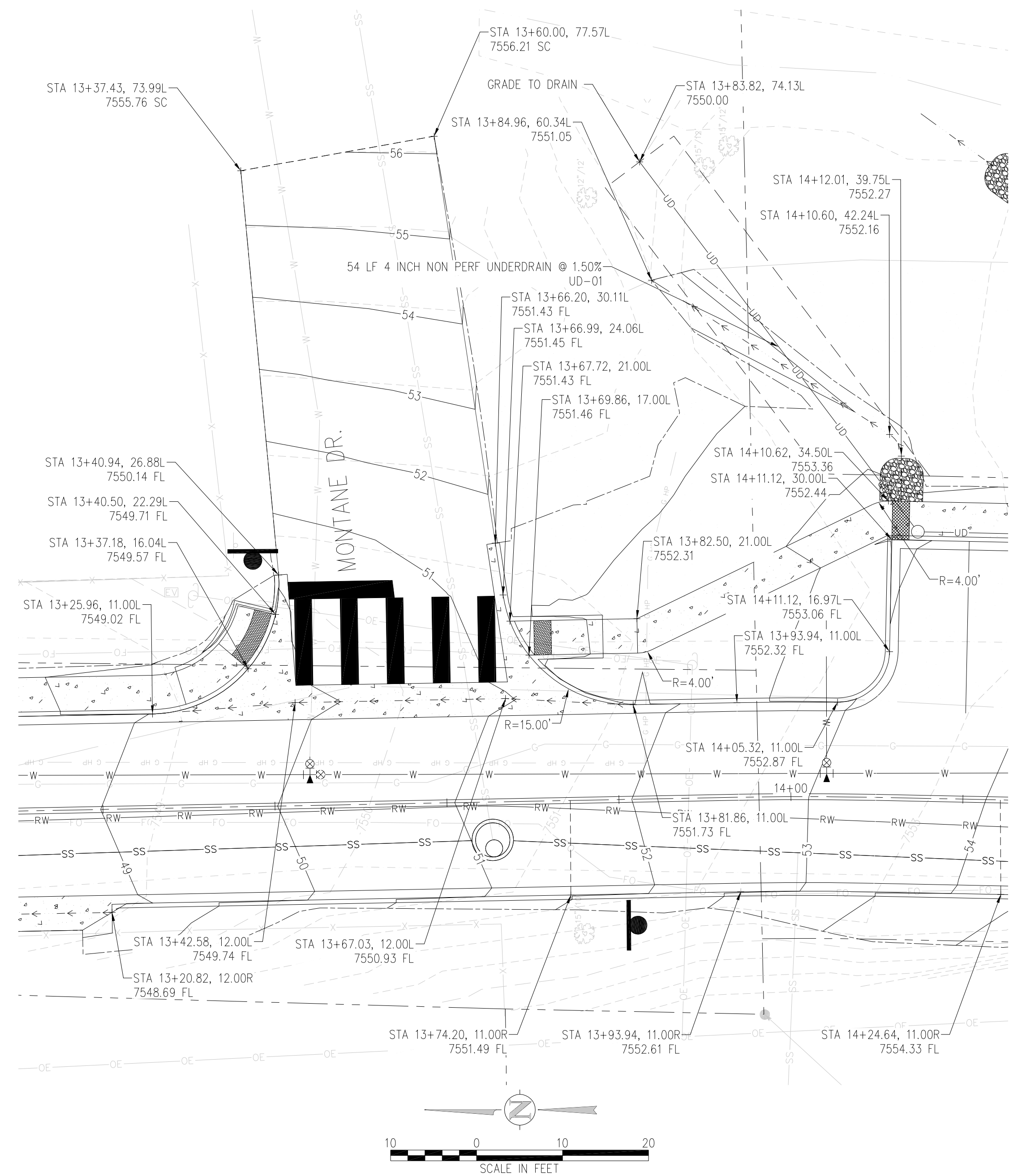
MATCHLINE SEE SHEET C1.5

MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE





NO.	DATE	DES'D	DOWN	REVISION DESCRIPTION



DESIGNED BY: EKB
 DRAWN BY: EKB
 CHECKED BY: ATG
 JOB #: 10092835
 DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
 0-408 SODA CREEK RD.
 IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
 DETAILED GRADING AND DRAINAGE PLAN



REVISION DESCRIPTION

NO. DATE DESD DWN



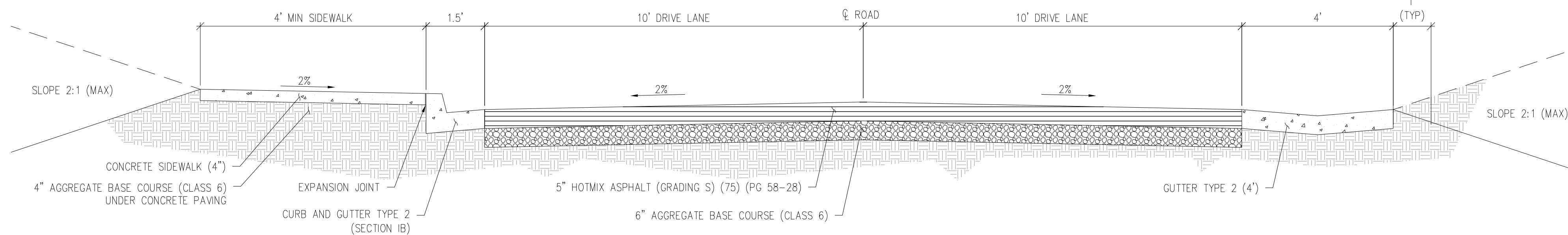
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DRAWN BY: EKB
CHECKED BY: ATG
JOB #: 10092835
DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

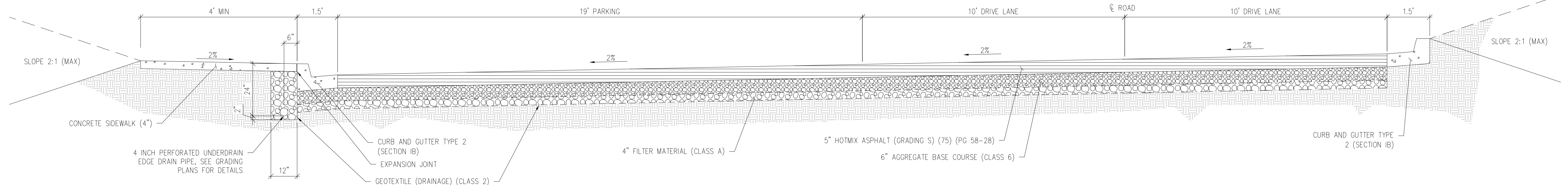
ROADWAY SECTIONS

SHEET NO.

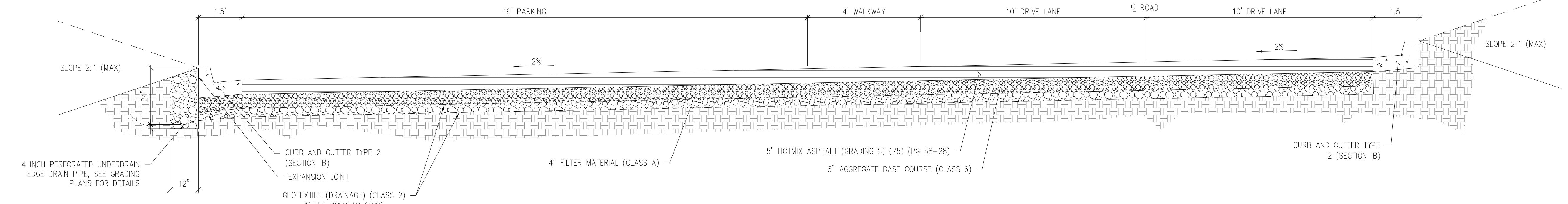
CD1.0



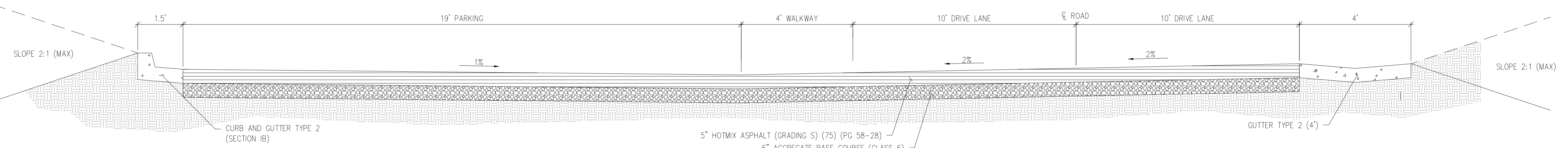
A TYPICAL CROWNED ROAD AND WALK SECTION
C1.0 STA. START TO STA. 13+74
STA. 22+78 TO STA. 24+07



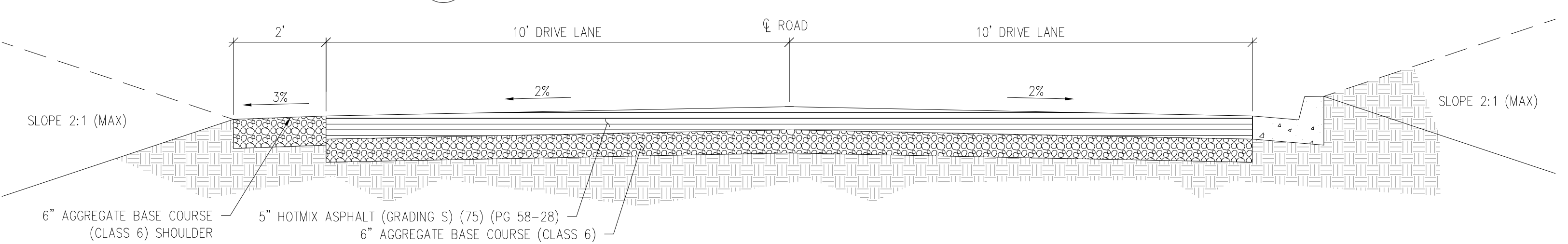
B TYPICAL CROSS SLOPE ROAD, PARKING, AND WALK SECTION
C1.1 STA. 13+74 TO STA. 19+12



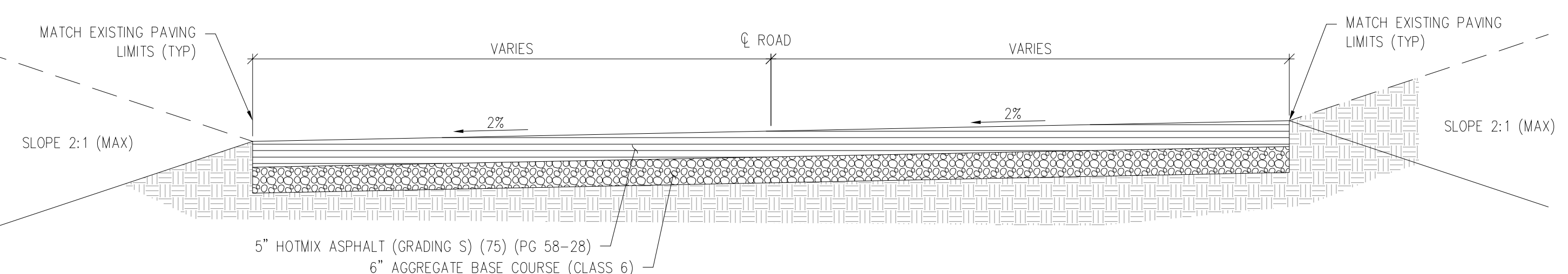
C TYPICAL CROSS SLOPE ROAD, PARKING, AND WALK SECTION
C1.2 STA. 19+12 TO STA. 20+78



D TYPICAL CROSS SLOPE ROAD, PARKING, AND WALK SECTION
C1.2 STA. 20+78 TO STA. 22+78

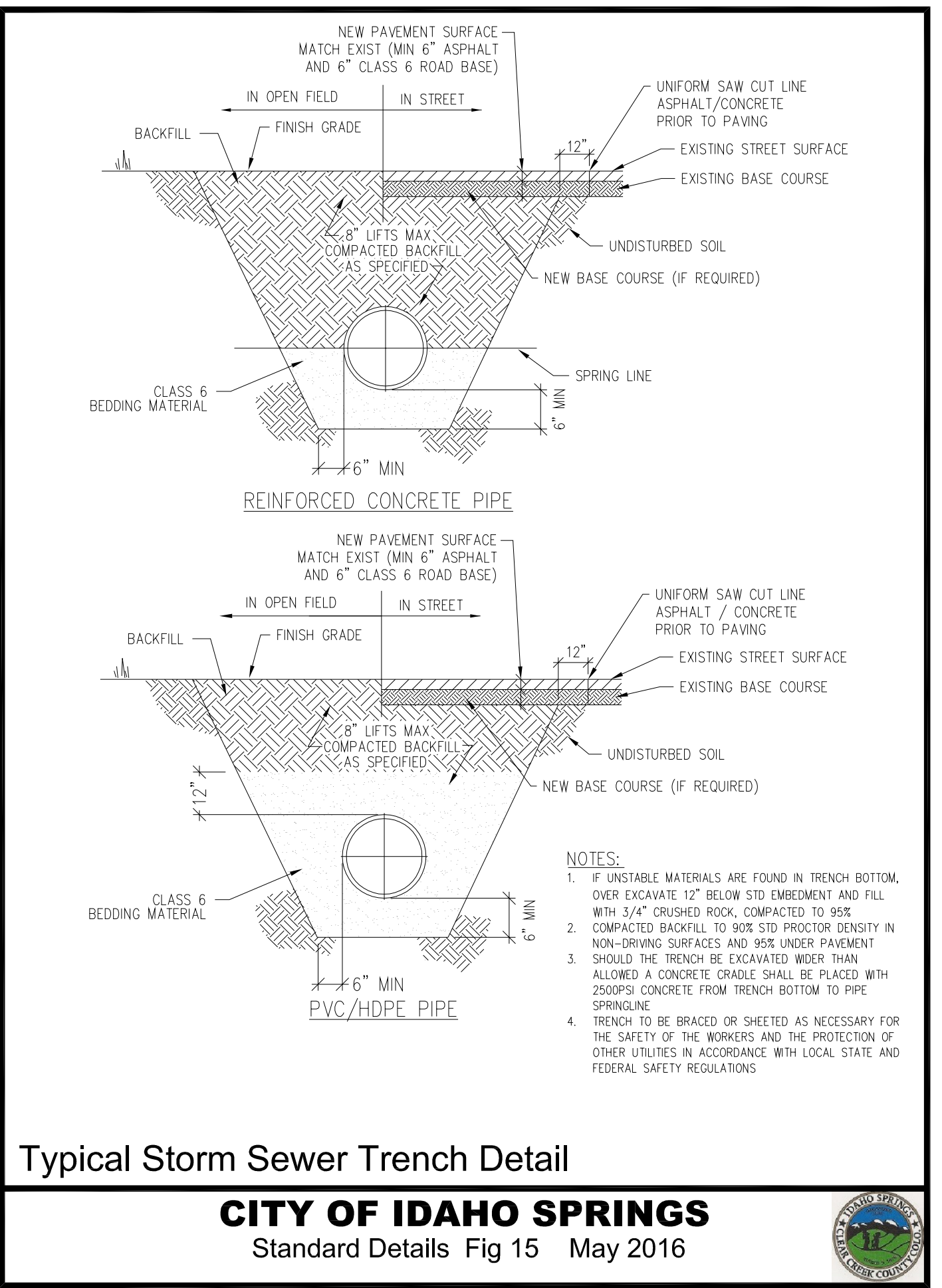
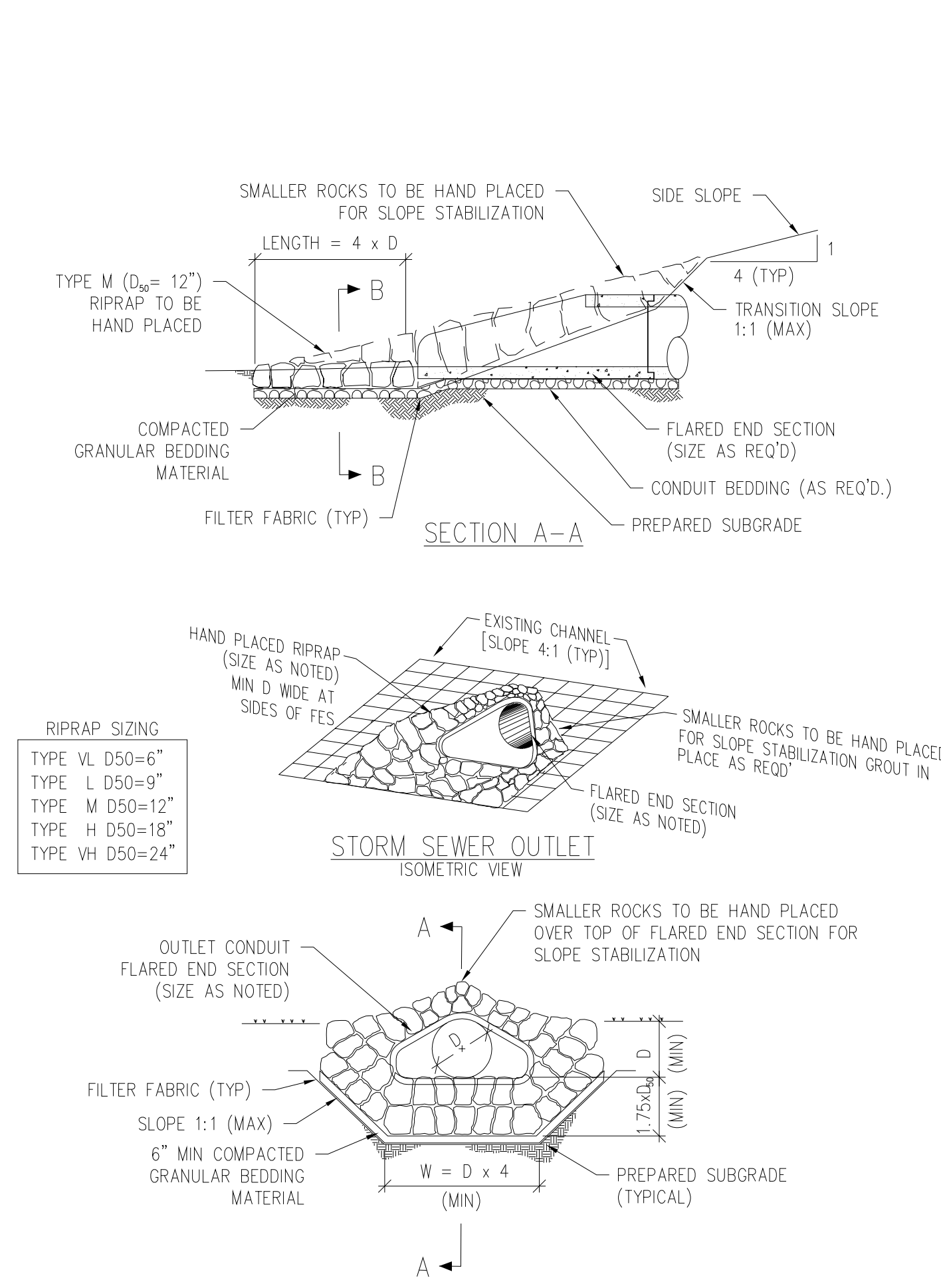
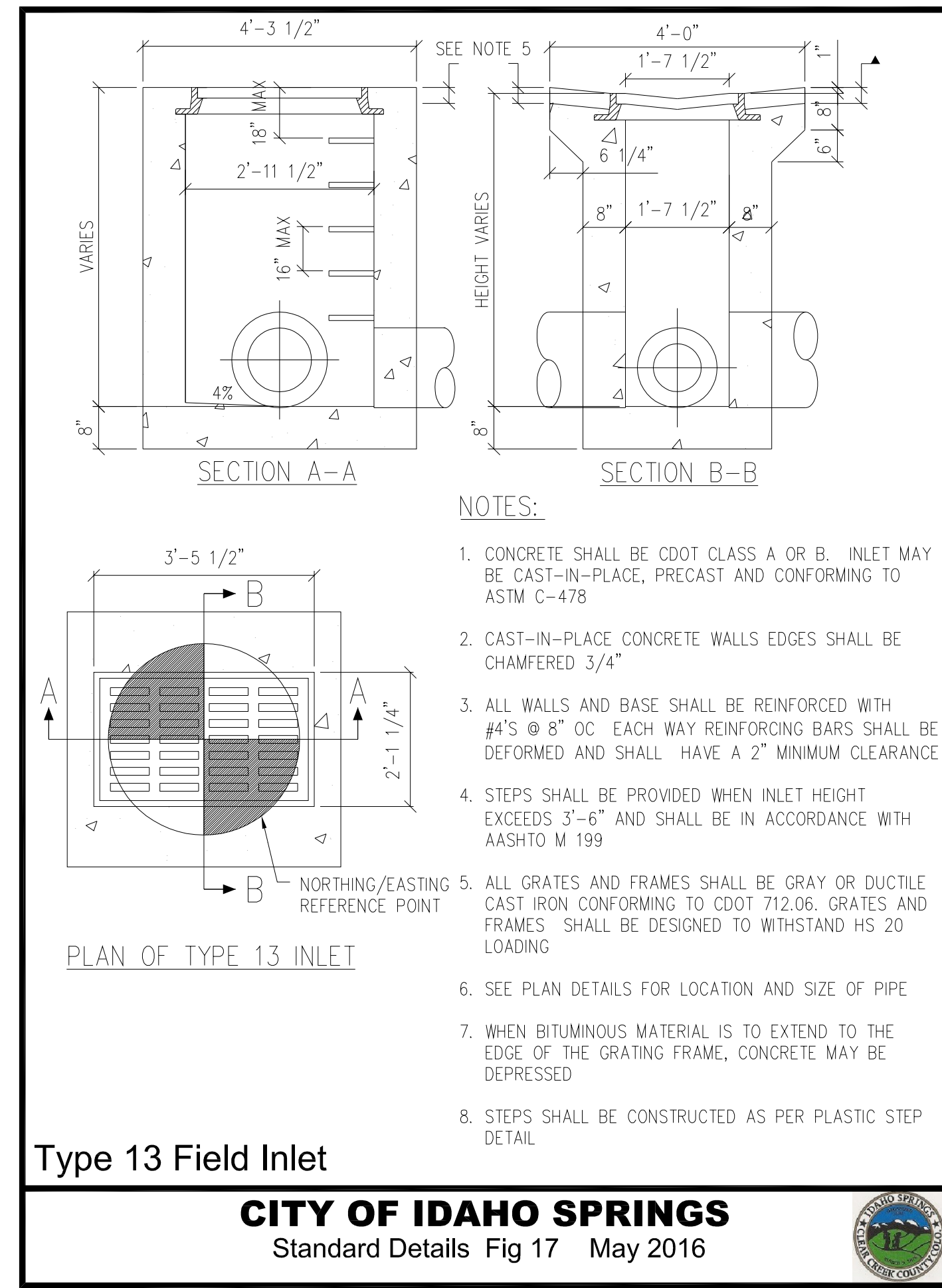
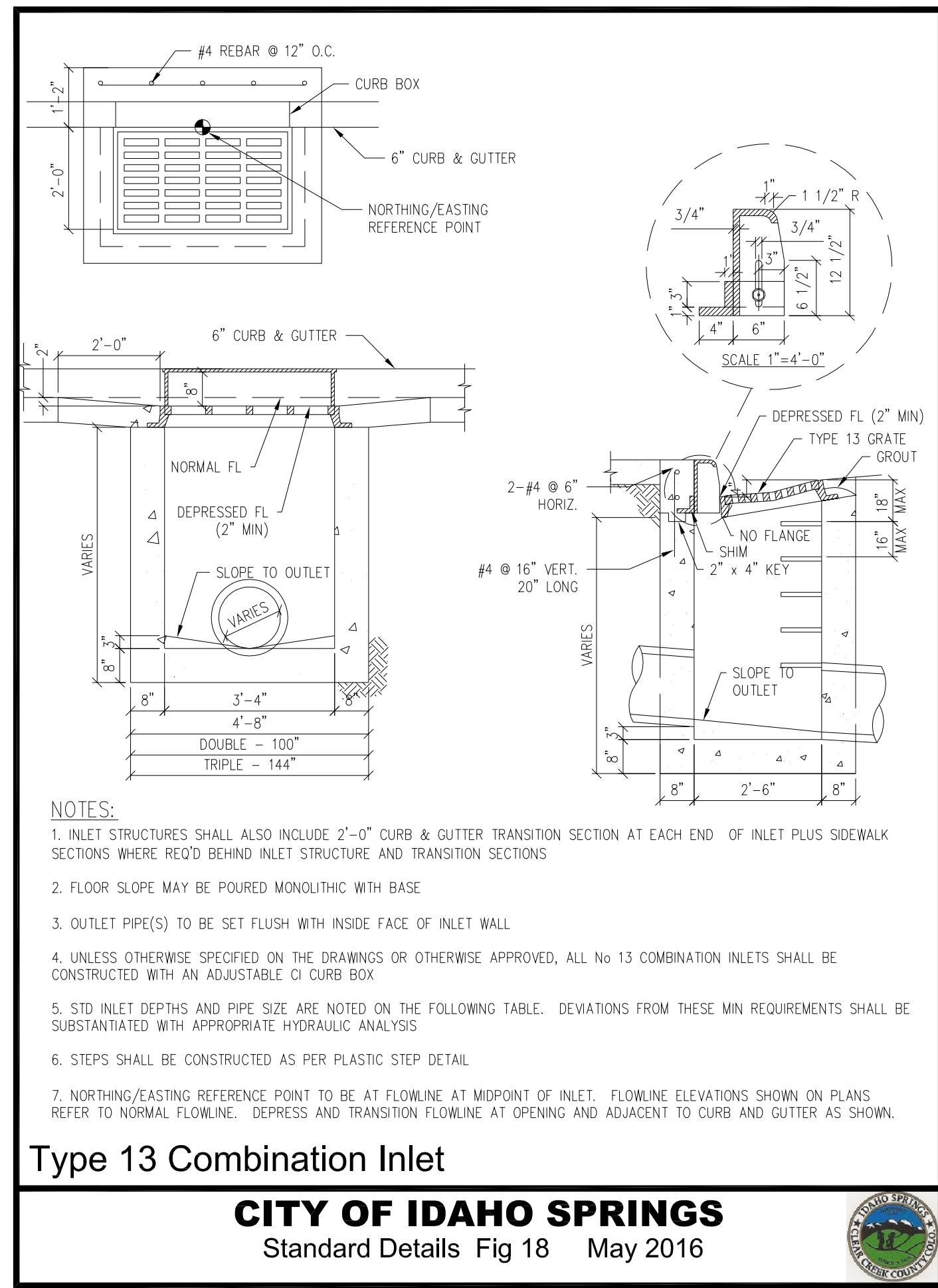


E TYPICAL CROWNED ROAD AND PAN SECTION
C1.3 STA. 24+07 TO STA. 27+35



F TYPICAL CROWNED ROAD AND PAN SECTION
C1.4 STA. 27+35 TO END

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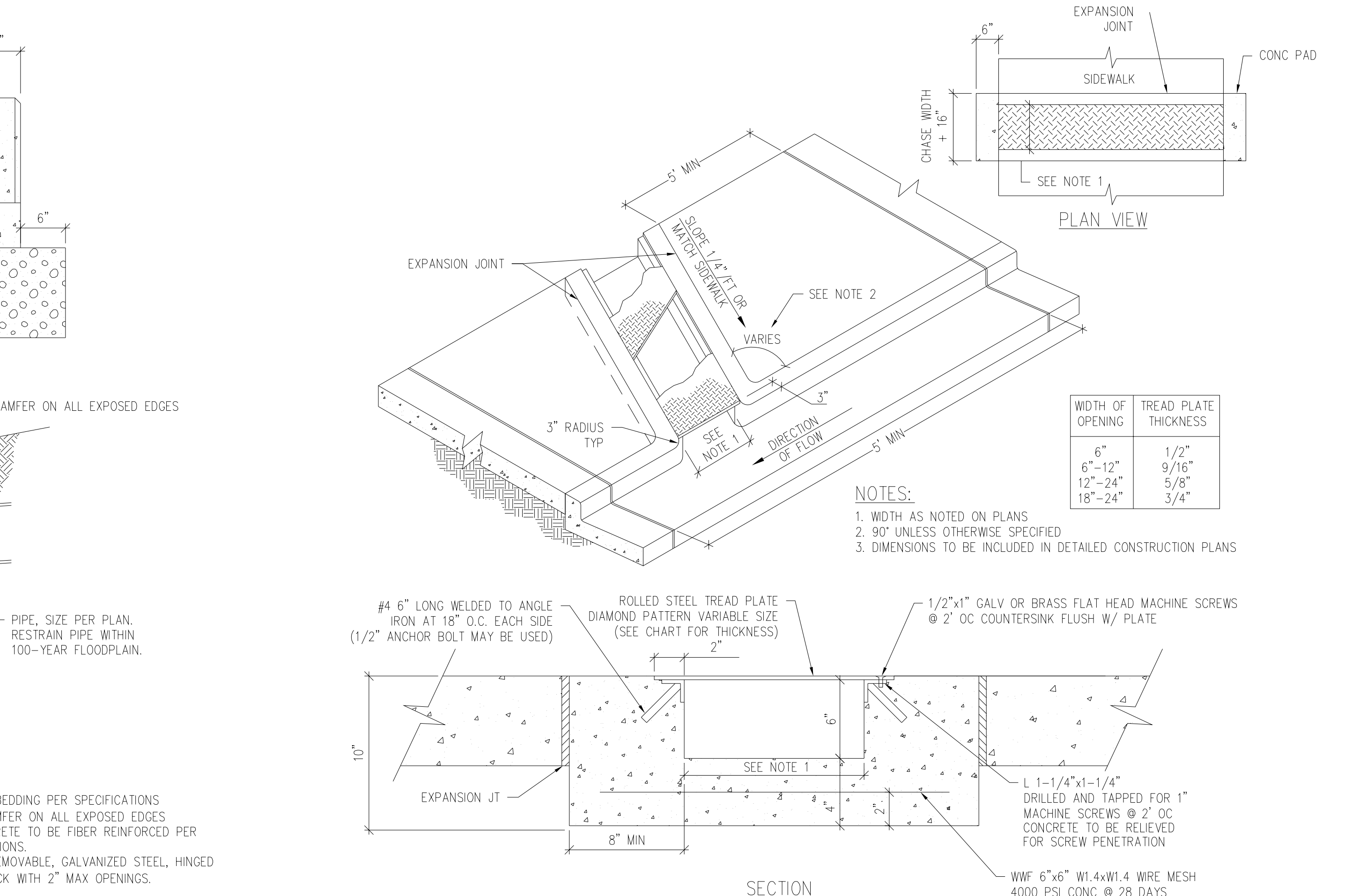
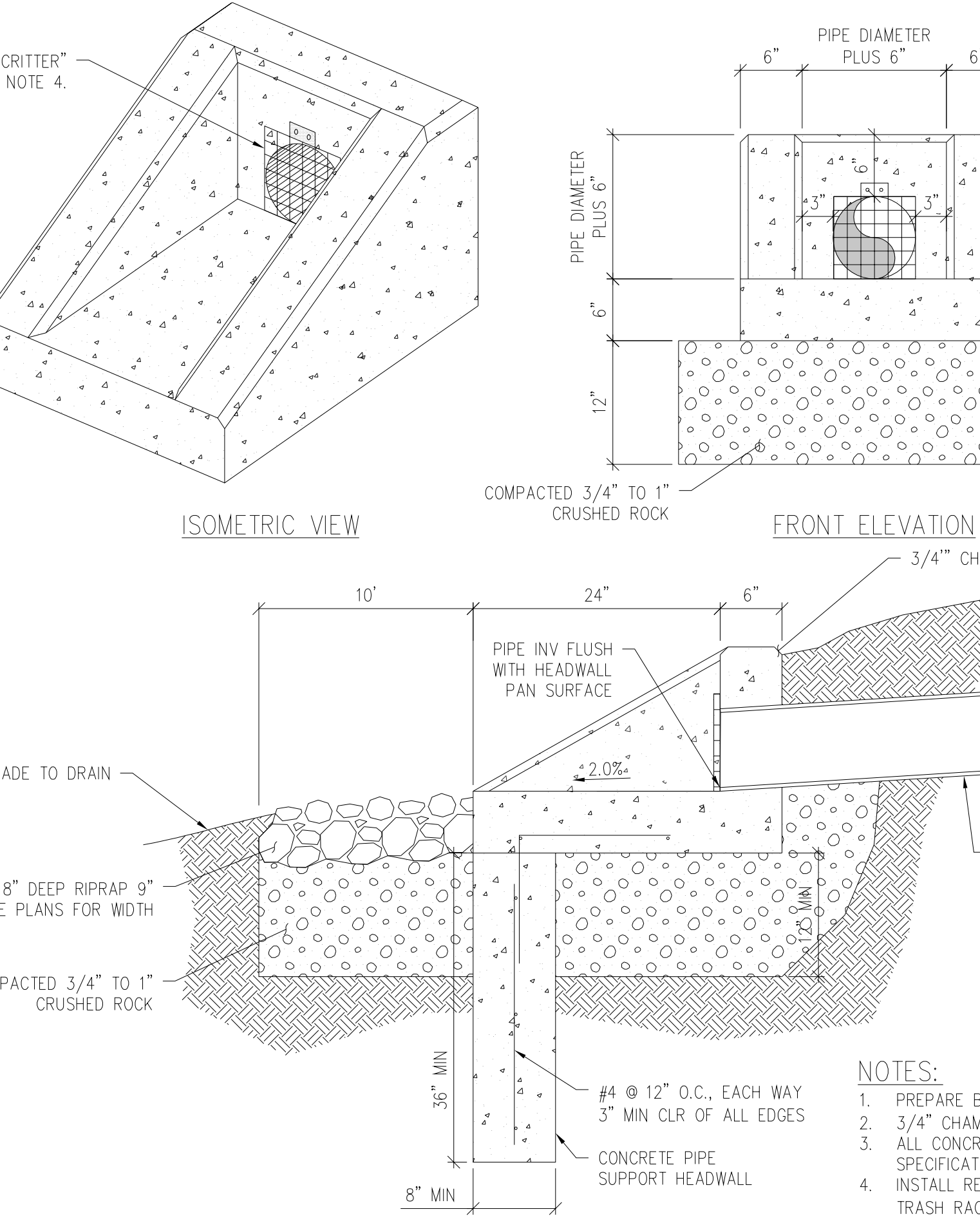
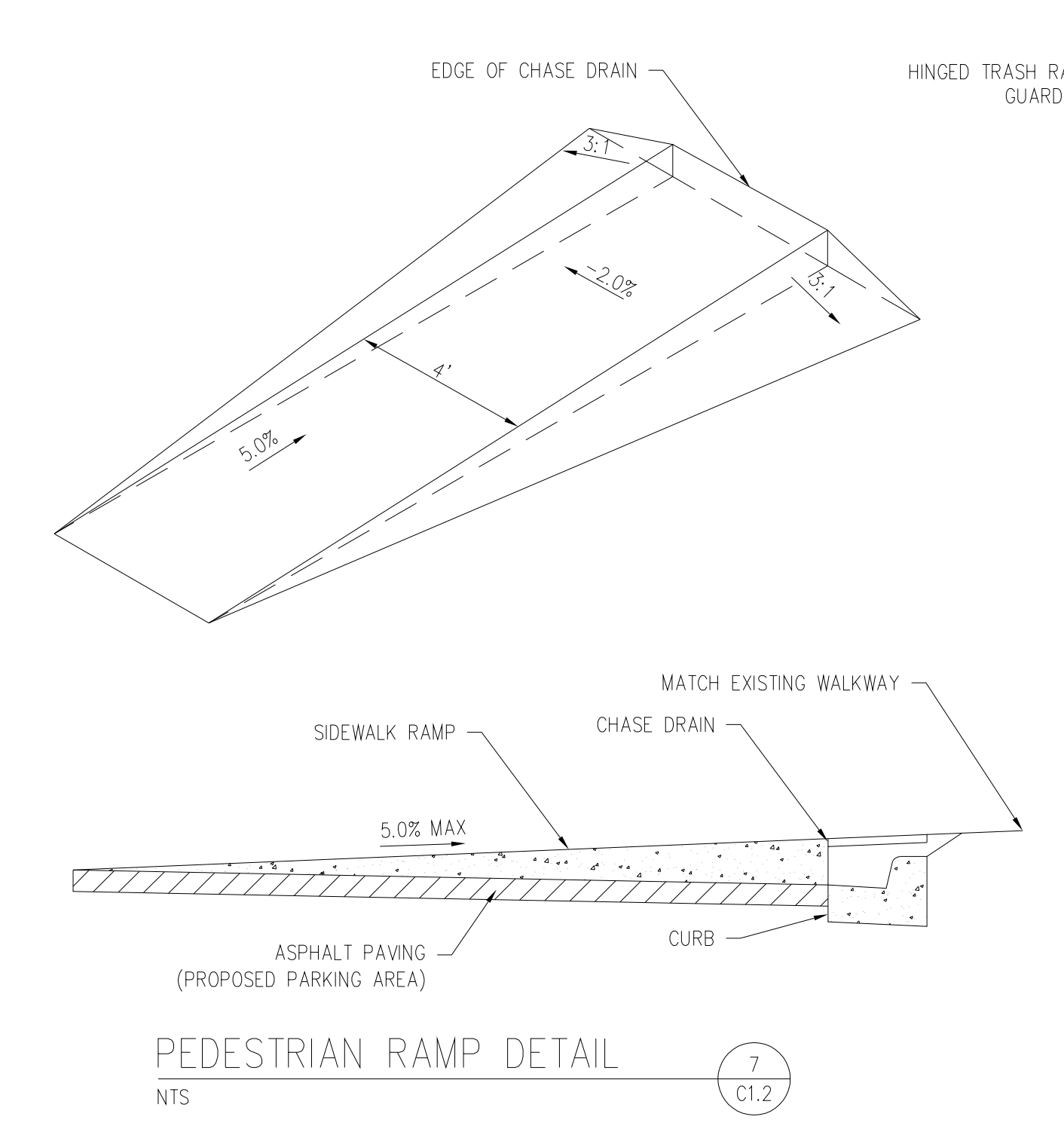


COMBINATION INLET DETAIL 4
NTS C1.4

FIELD INLET DETAIL 3
NTS C1.4

STORM SEWER FLARED END SECTION DETAIL 2
NTS C1.6

TYPICAL STORM SEWER TRENCH DETAIL 1
NTS C1.4



PEDESTRIAN RAMP DETAIL 7
NTS C1.2

SMALL PIPE HEADWALL DETAIL 6
NTS C1.3

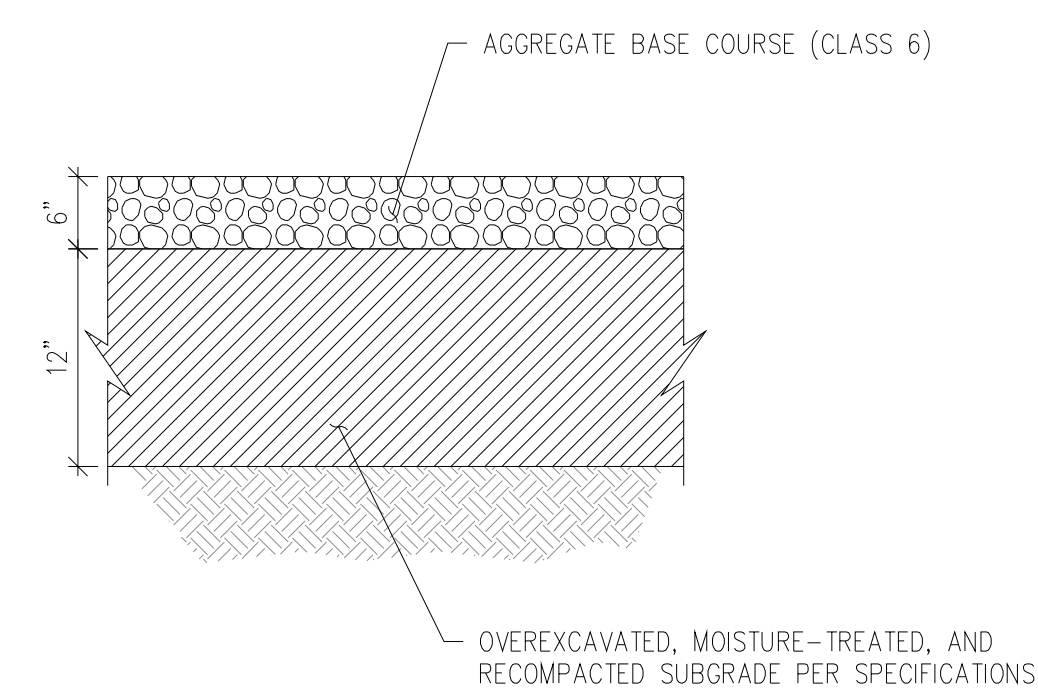
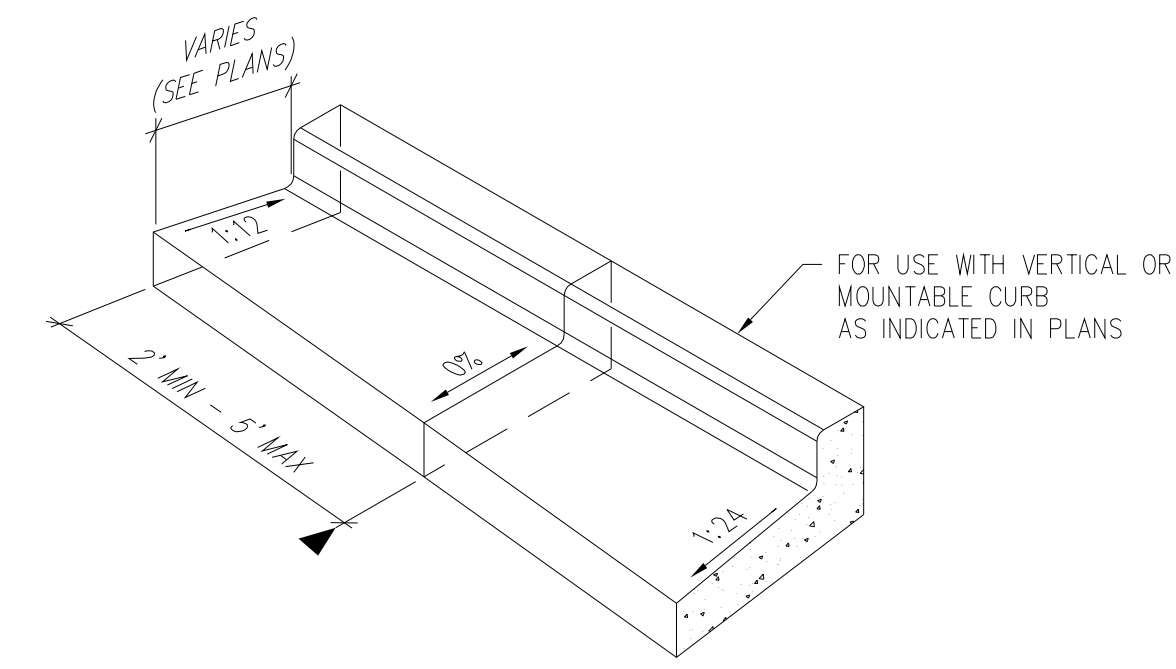
STORM SEWER FLARED END SECTION DETAIL 2
NTS C1.6

TYPICAL STORM SEWER TRENCH DETAIL 1
NTS C1.4

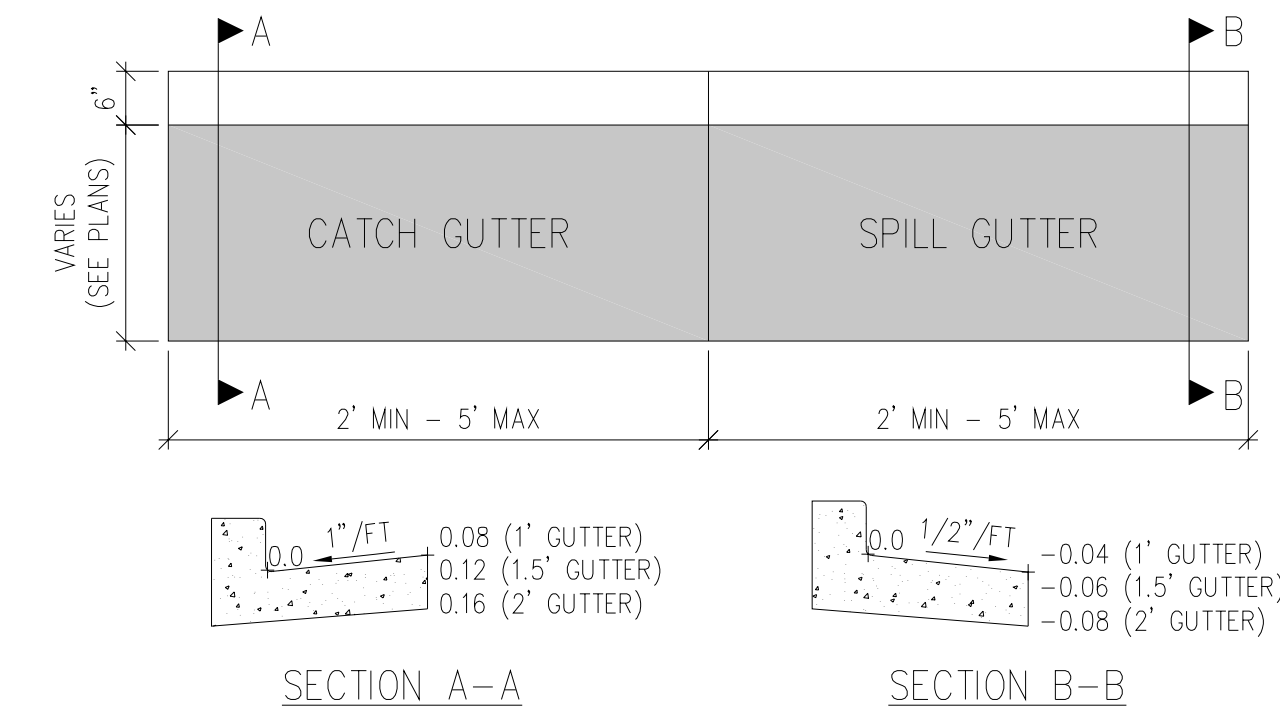
STORM SEWER FLARED END SECTION DETAIL 2
NTS C1.6

TYPICAL STORM SEWER TRENCH DETAIL 1
NTS C1.4

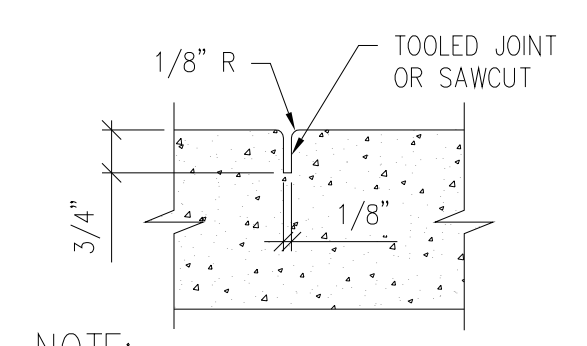
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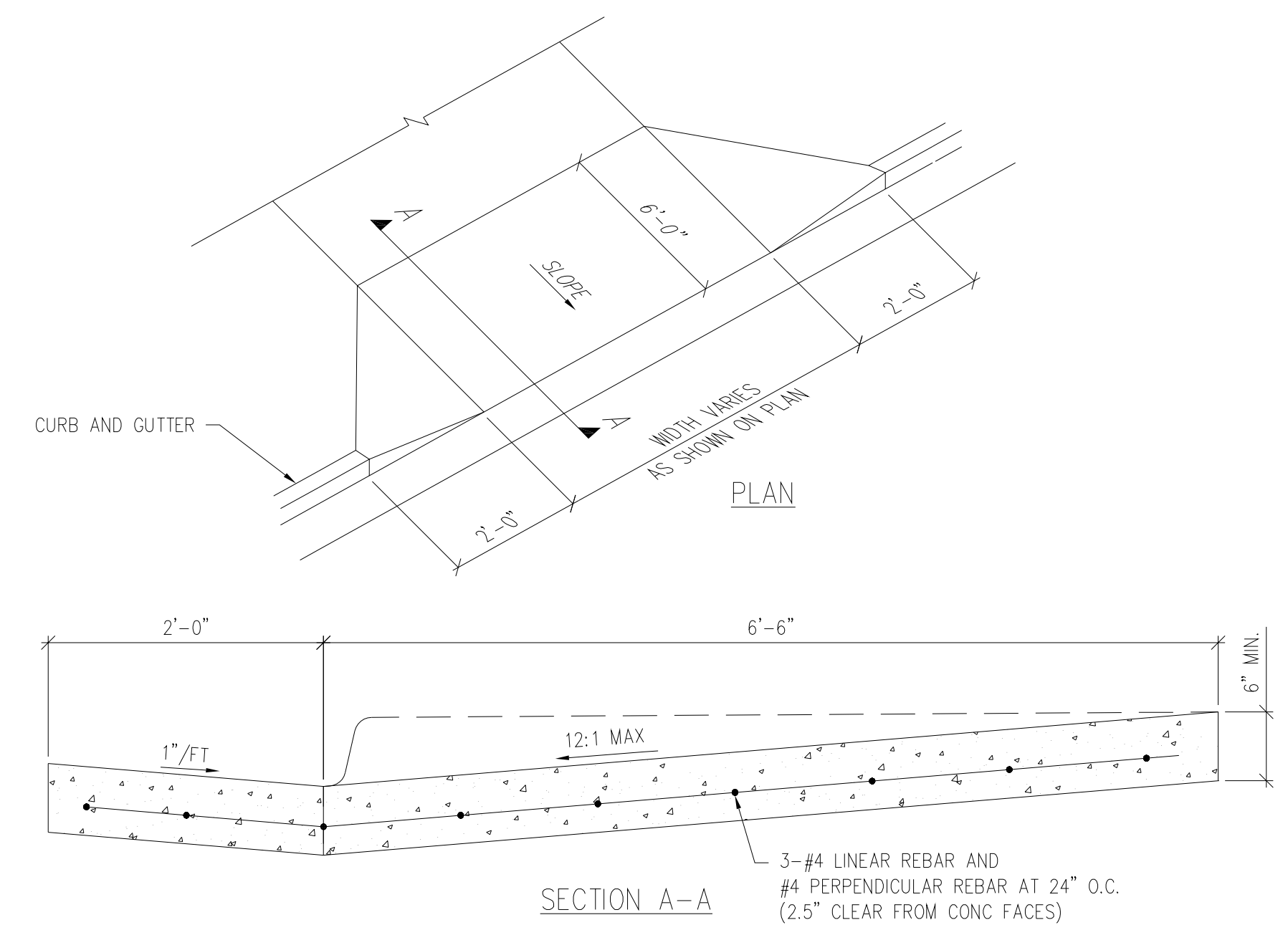
GRAVEL PAVING
 NTS (4) C1.3



GUTTER CATCH SPILL TRANSITION DETAIL
 NTS (3) C1.4

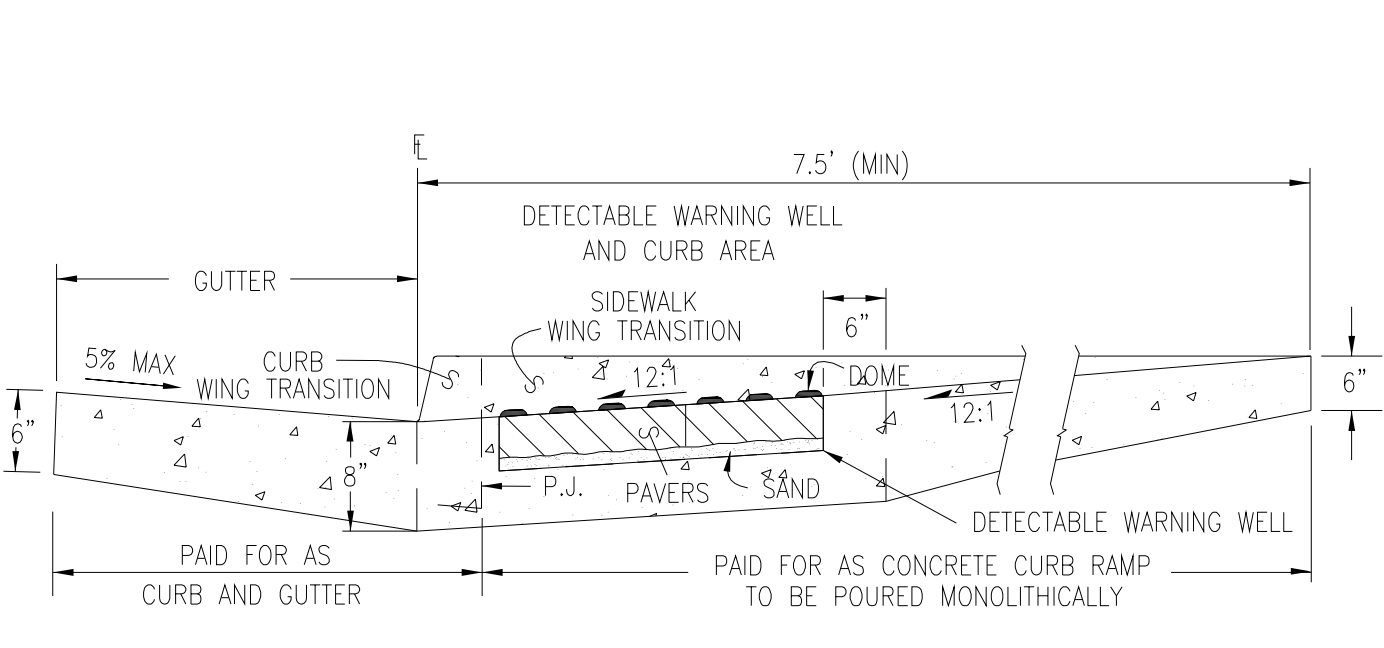


CONTRACTION JOINT DETAIL
 NTS (2) C1.0



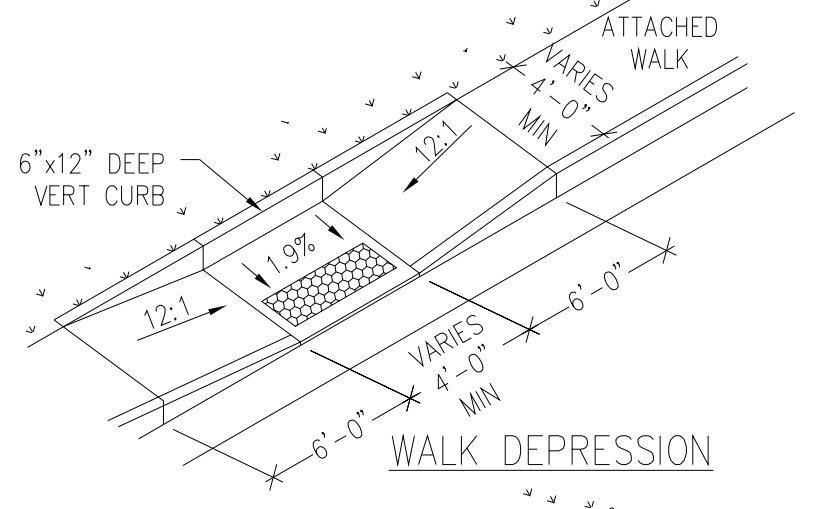
- NOTES:
1. COARSE BROOM FINISH SURFACE OF RAMP ACROSS THE SLOPE
 2. MAINTAIN NORMAL GUTTER FLOW AND PROFILE THROUGH RAMP AREA PROVIDE 1/2" EXPANSION JOINT WHERE CONCRETE RAMP JOINS ANY
 3. RIGID PAVEMENT OR STRUCTURE
 4. RAMP, CURB AND GUTTER CONSTRUCTION MAY BE POURED MONOLITHICALLY
 5. RAMP CONCRETE SAME THICKNESS AS SIDEWALK

CURB CUT DRIVEWAY (PAID AS ITEM 412-00600)
 NTS (1) C1.0

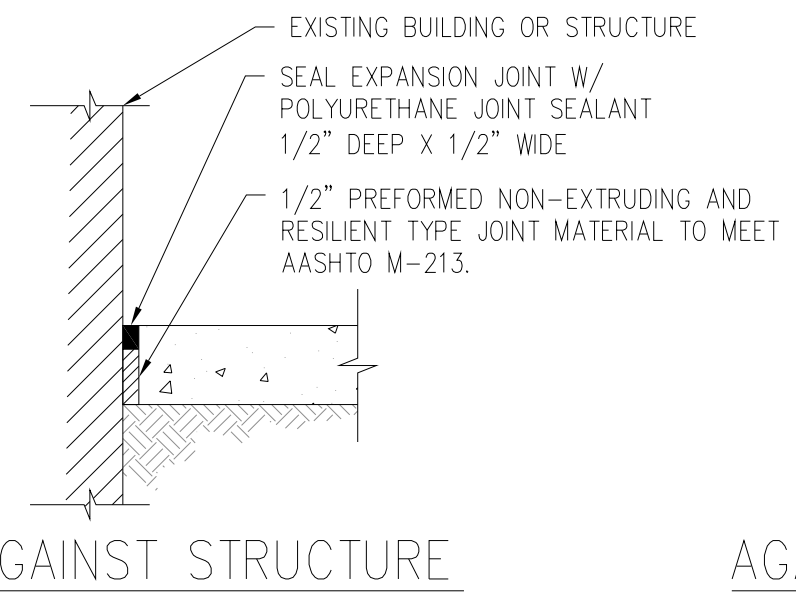


SIDE SECTION VIEW OF
 DETECTABLE WARNING, WELL, CURB, AND GUTTER
 P.J. = PERMISSIBLE JOINT WITH EPOXY-COATED DEFORMED NO. 4 BY 18 IN. BARS CONFORMING TO AASHTO M 284 AT 18 IN. SPACING.

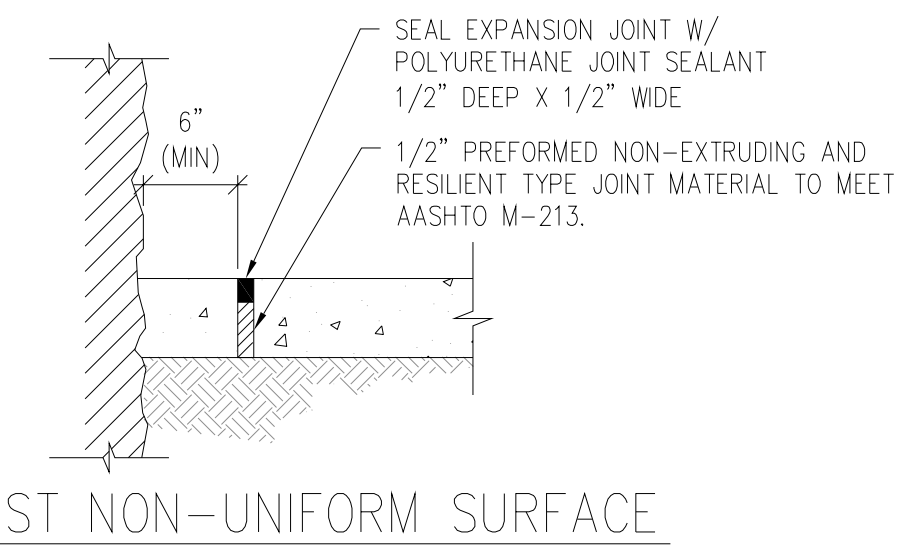
- DETECTABLE WARNING PAVERS WITH A TRUNCATED DOME SURFACE (PAVESTONE "RIVER RED" COLOR, OR APPROVED EQUIVALENT)
- CONCRETE RAMP AND WING SURFACES SHALL BE TEXTURED WITH A COARSE BROOMED SURFACE ONLY.
- GRASS OR GRAVEL AREA ADJACENT TO RAMP, WING OR WALK THAT IS NOT APPROPRIATE FOR WHEELCHAIR TRAFFIC.



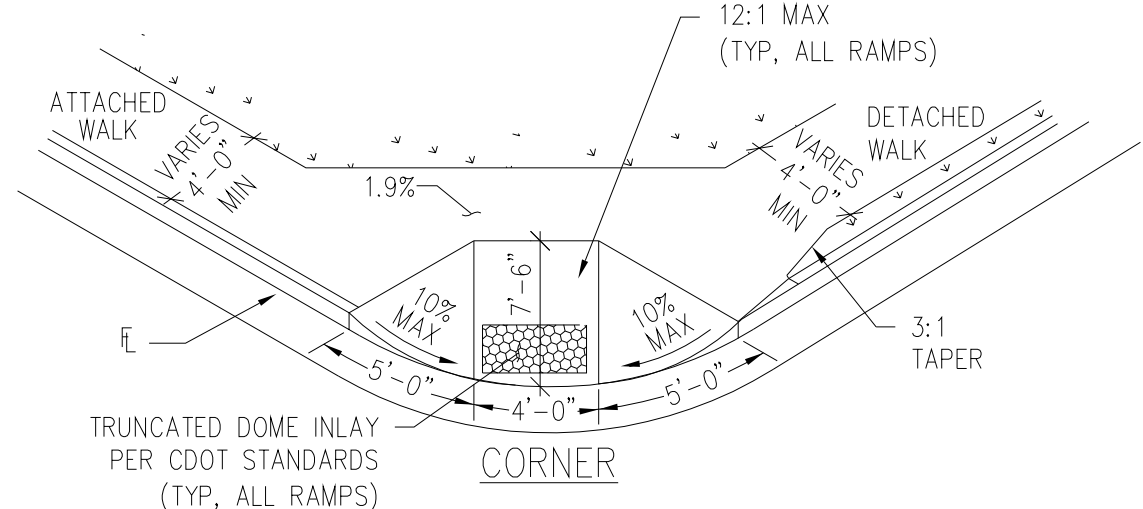
WALK DEPRESSION @ CORNER



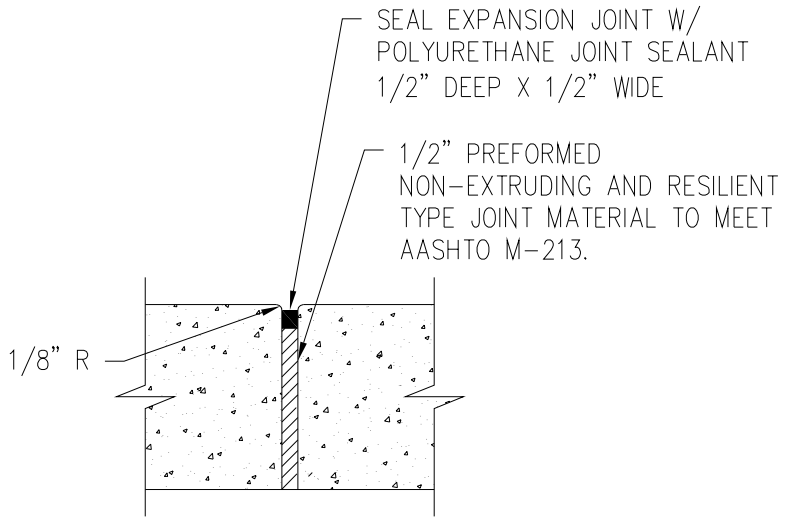
AGAINST STRUCTURE



AGAINST NON-UNIFORM SURFACE



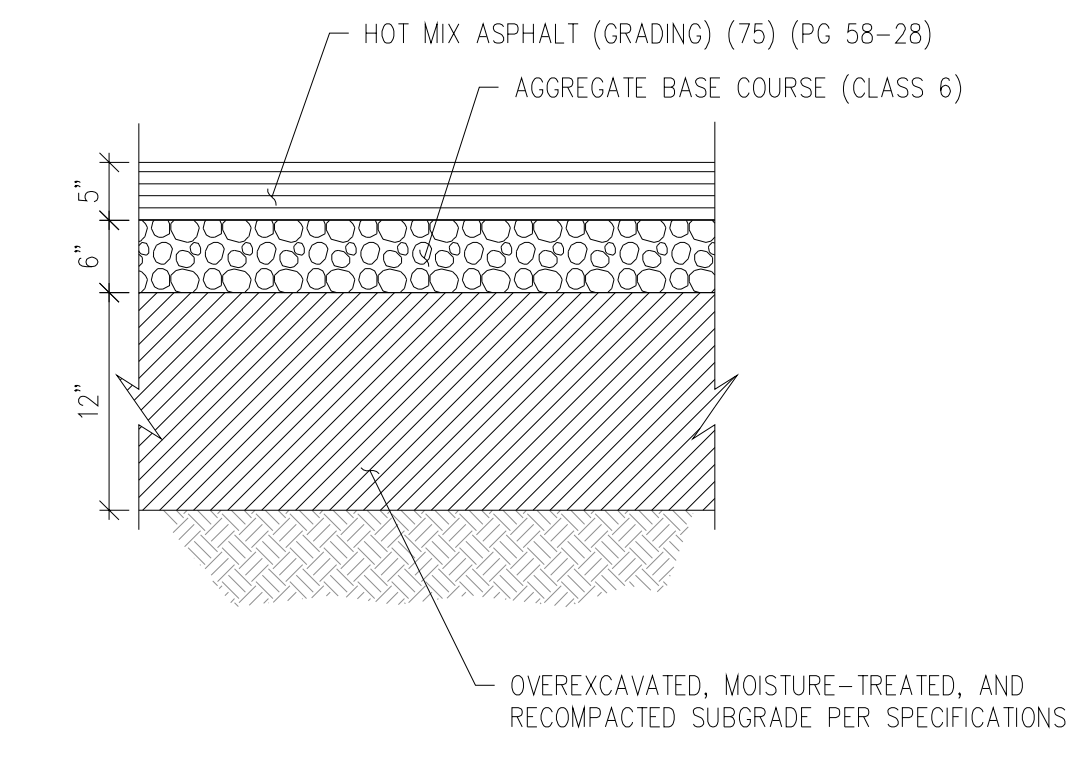
CORNER



SIDEWALK

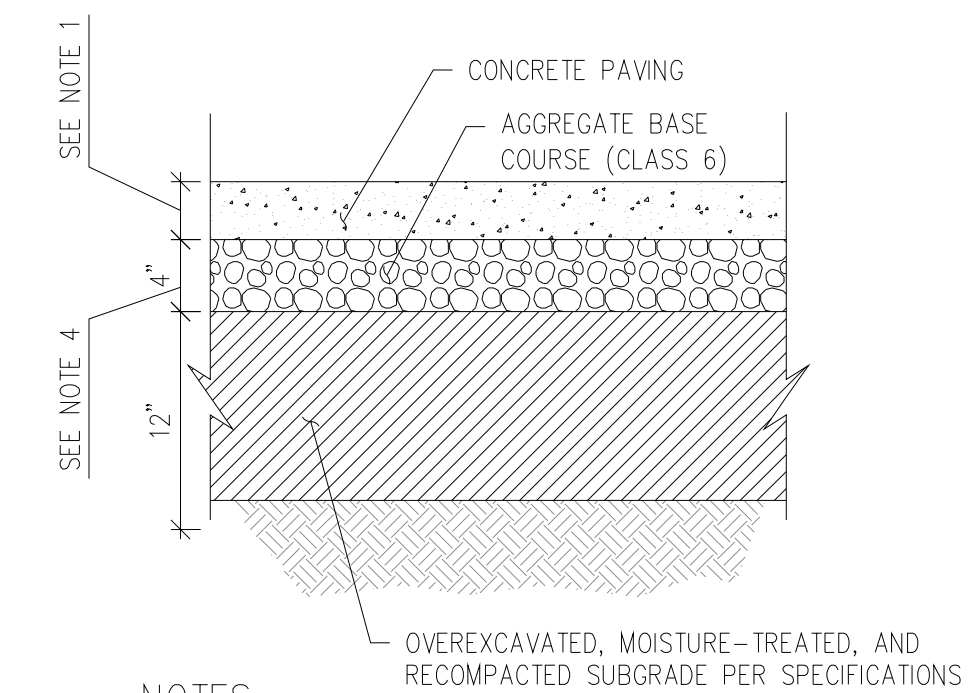
- NOTES:
1. CURB EXPANSION JOINTS EVERY 100' MAX AND WHEREVER SIDEWALK ABUTS EXISTING & PROPOSED CONCRETE STRUCTURES (TYP) - SEE PLAN
 2. REMOVE PLASTIC FORMING MATERIAL ("ZIP STRIPS") FROM PREFORMED JOINT MATERIAL PRIOR TO PLACING SEALANT

EXPANSION JOINT DETAIL
 NTS (7) C1.0



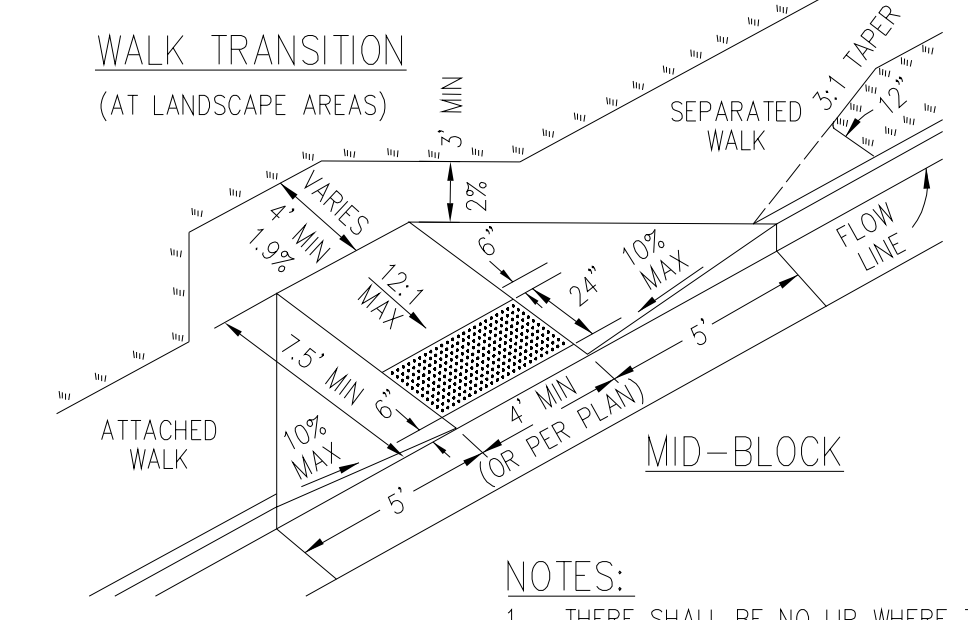
- NOTES:
1. IMPORT FILL AND COMPACT SUBGRADE PER SPECIFICATIONS.

ASPHALT PAVING SECTION DETAIL
 NTS (5) C1.0



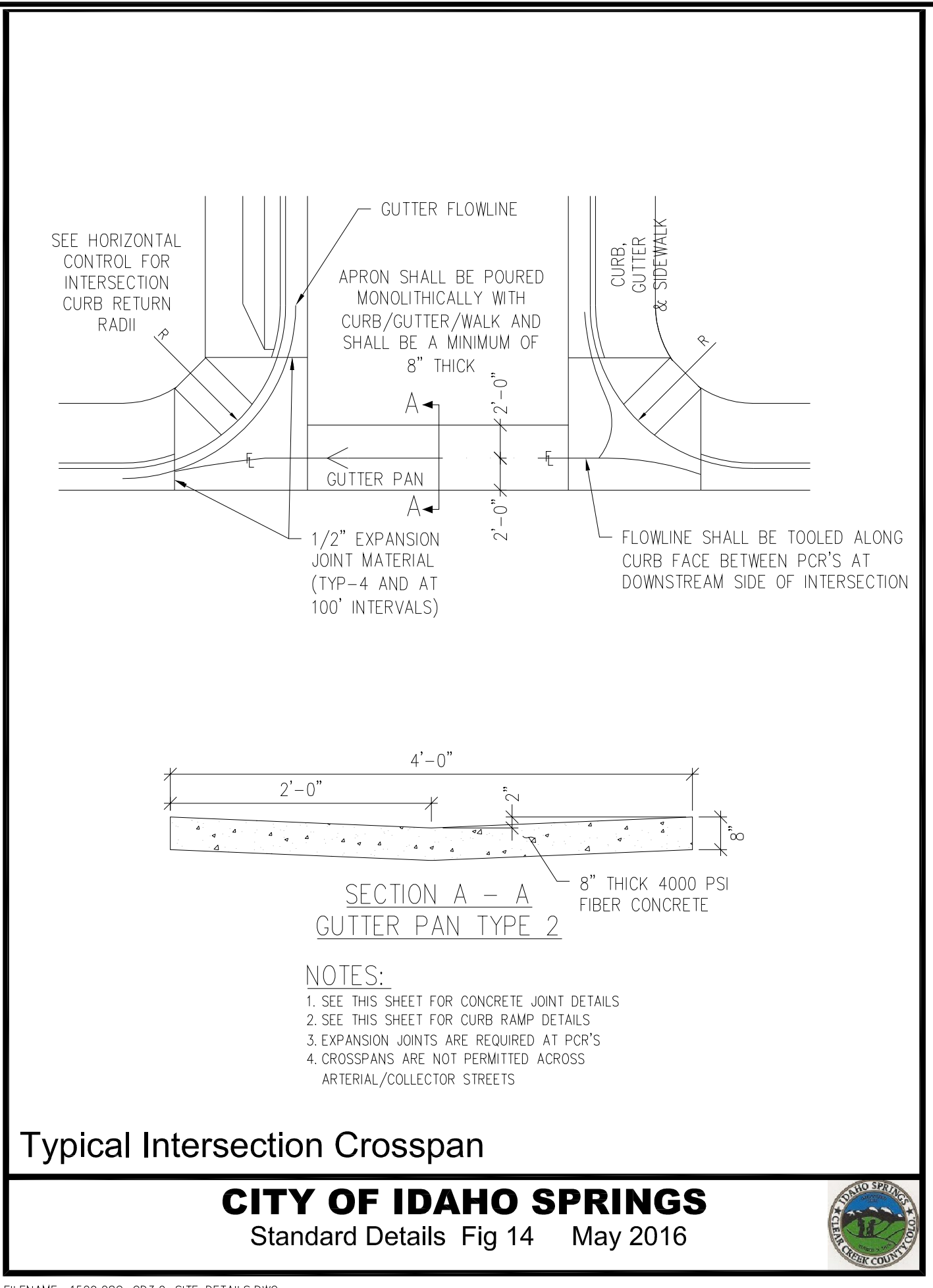
- NOTES:
1. CONCRETE THICKNESSES:
 4" FOR WALKS
 6" FOR DRIVES
 8" FOR TRASH PADS
 2. COMPACT SUBGRADE PER SPECIFICATIONS.
 3. SEE CONTRACTION JOINT AND EXPANSION JOINT DETAILS.
 4. NO ABC UNDER WALKS

CONCRETE PAVING SECTION DETAIL
 NTS (6) C1.0

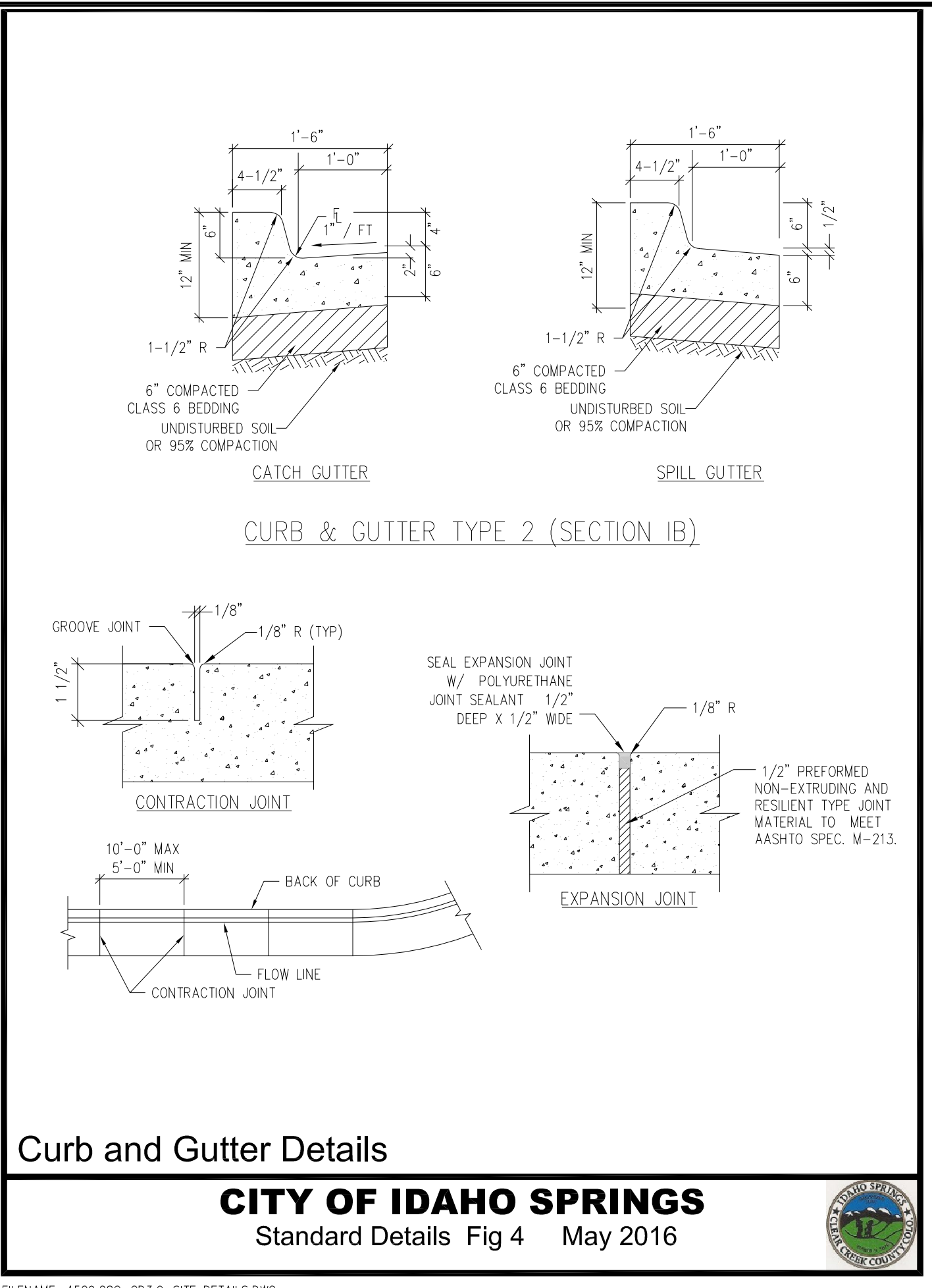


- NOTES:
1. THERE SHALL BE NO LIP WHERE THE RAMP MEETS THE GUTTER
 2. CURB RAMPS SHALL BE PROVIDED AT ALL CORNERS OF STREET INTERSECTIONS AND AT "T" INTERSECTIONS WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB
 3. RAMP LOCATION SHALL BE SPECIFIED ON THE CONSTRUCTION PLANS USE CDOT STANDARDS CURB RAMP DETAIL WITHIN THE RIGHT-OF-WAY
 4. SEE CDOT DRAWING M-608-1 FOR FULL NOTES, DETAILS AND DIMENSIONS

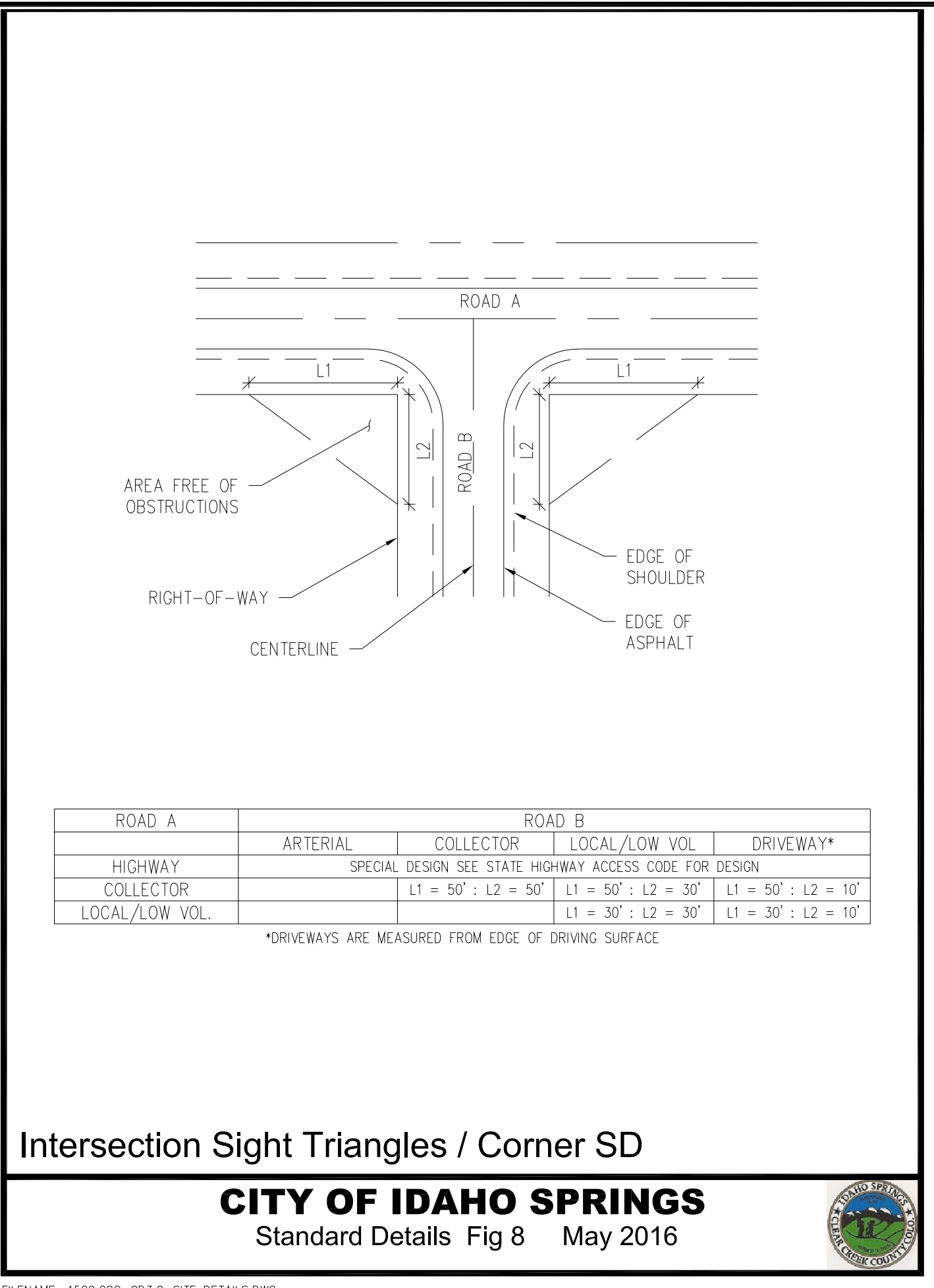
CURB RAMP DETAIL (PAID FOR AS ITEM CONCRETE CURB RAMP 608-00010)
 NTS (8) C1.0



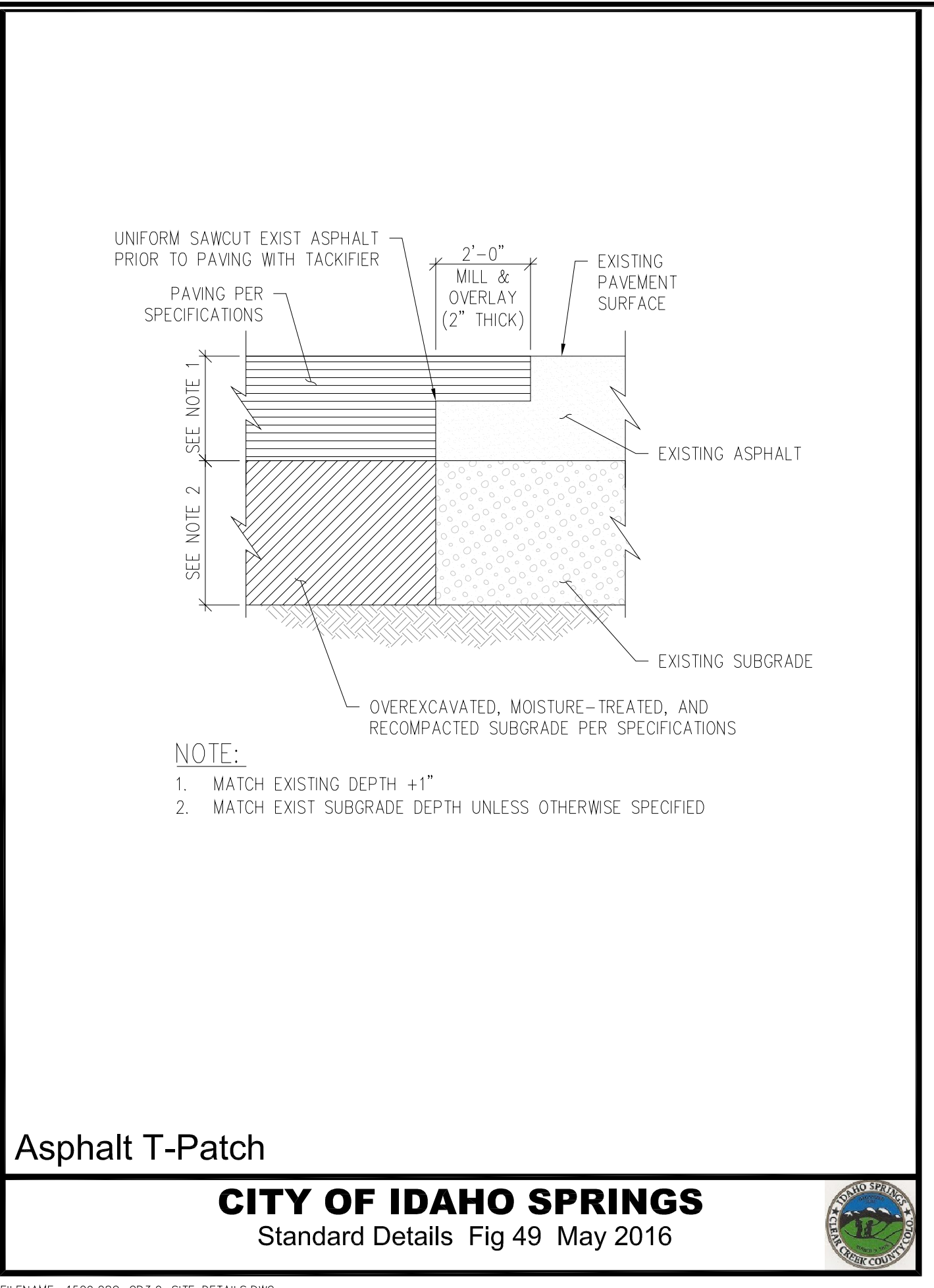
Typical Intersection Crosspan
CITY OF IDAHO SPRINGS
Standard Details Fig 14 May 2016



Curb and Gutter Details
CITY OF IDAHO SPRINGS
Standard Details Fig 4 May 2016



Intersection Sight Triangles / Corner SD
CITY OF IDAHO SPRINGS
Standard Details Fig 8 May 2016



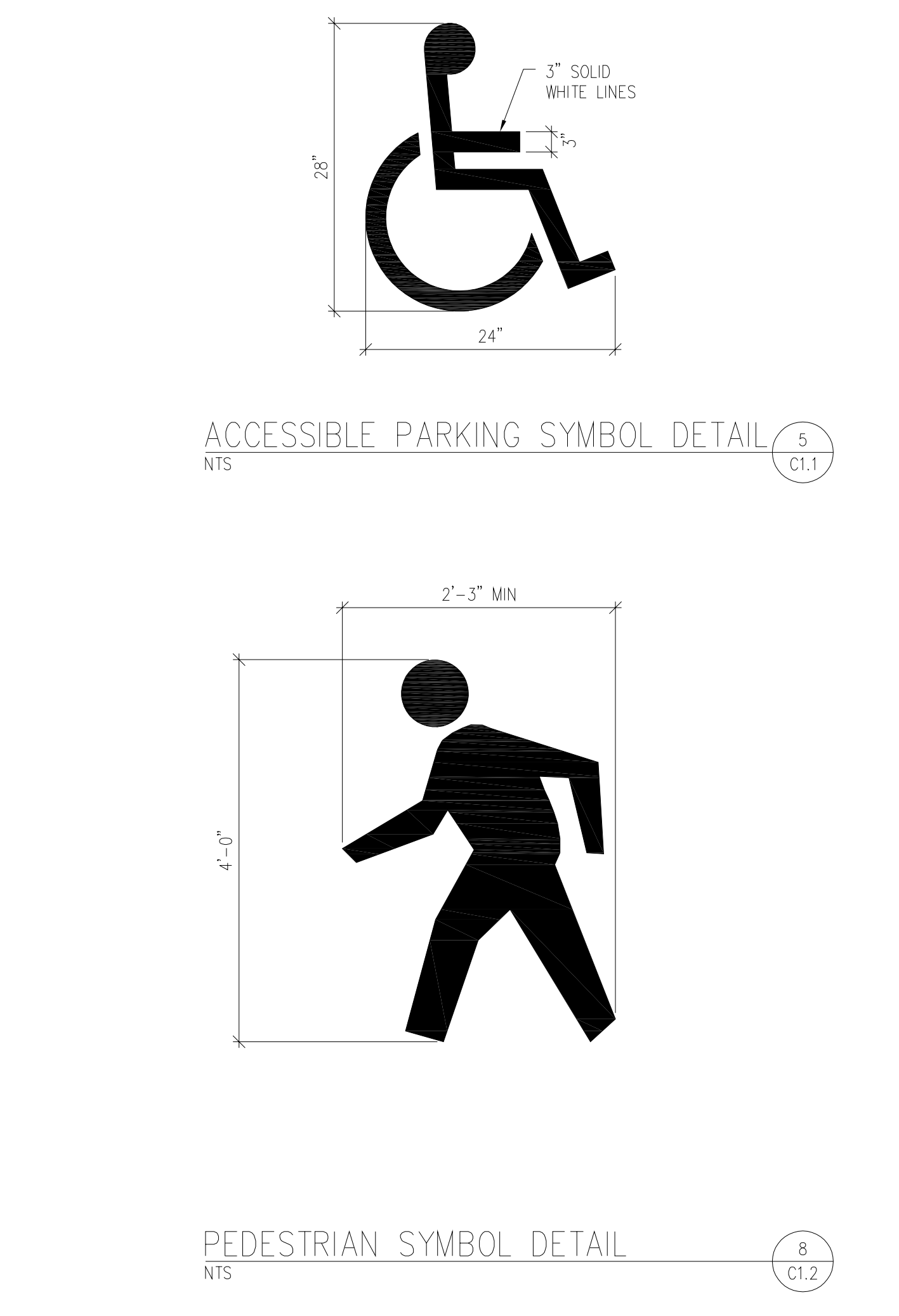
Asphalt T-Patch
CITY OF IDAHO SPRINGS
Standard Details Fig 49 May 2016

INTERSECTION CROSSSPAN DETAIL (1)
NTS C1.0

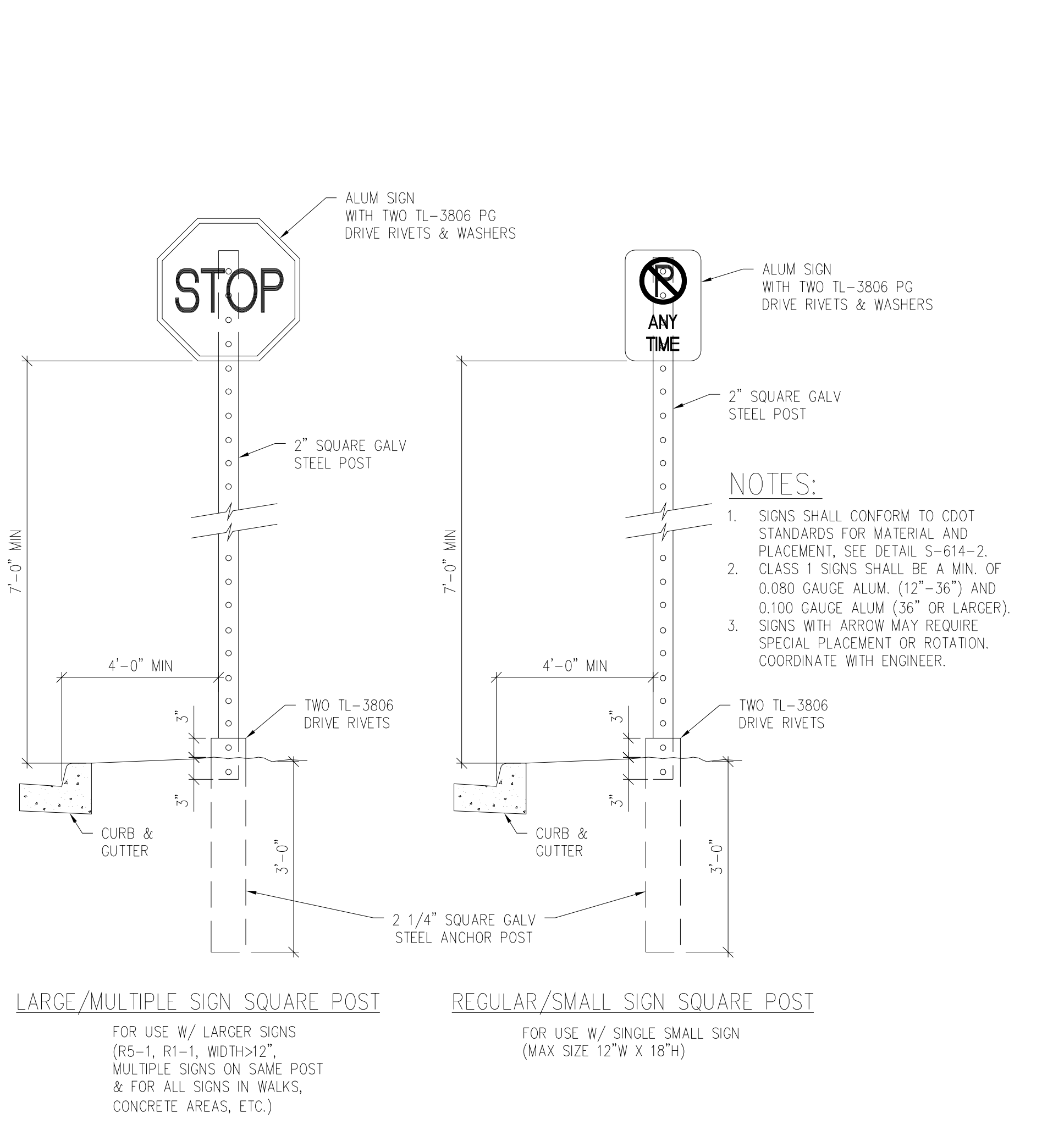
CURB AND GUTTER DETAIL (2)
NTS C1.0

INTERSECTION SIGHT TRIANGLE DETAIL (3)
NTS C1.0

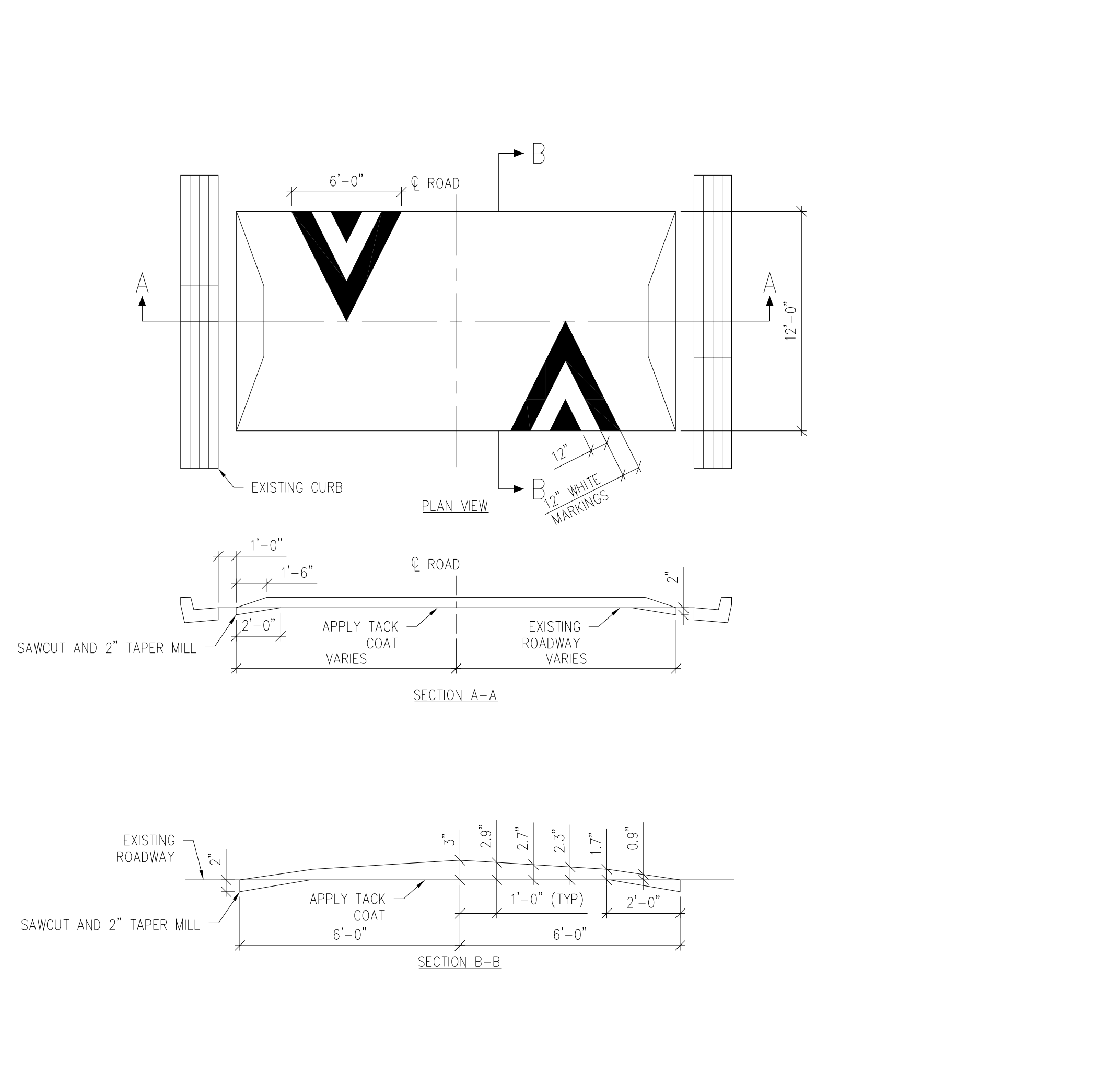
HOT MIX ASPHALT (PATCHING) (ASPHALT) DETAIL (4)
NTS C1.0



PEDESTRIAN SYMBOL DETAIL
NTS C1.2

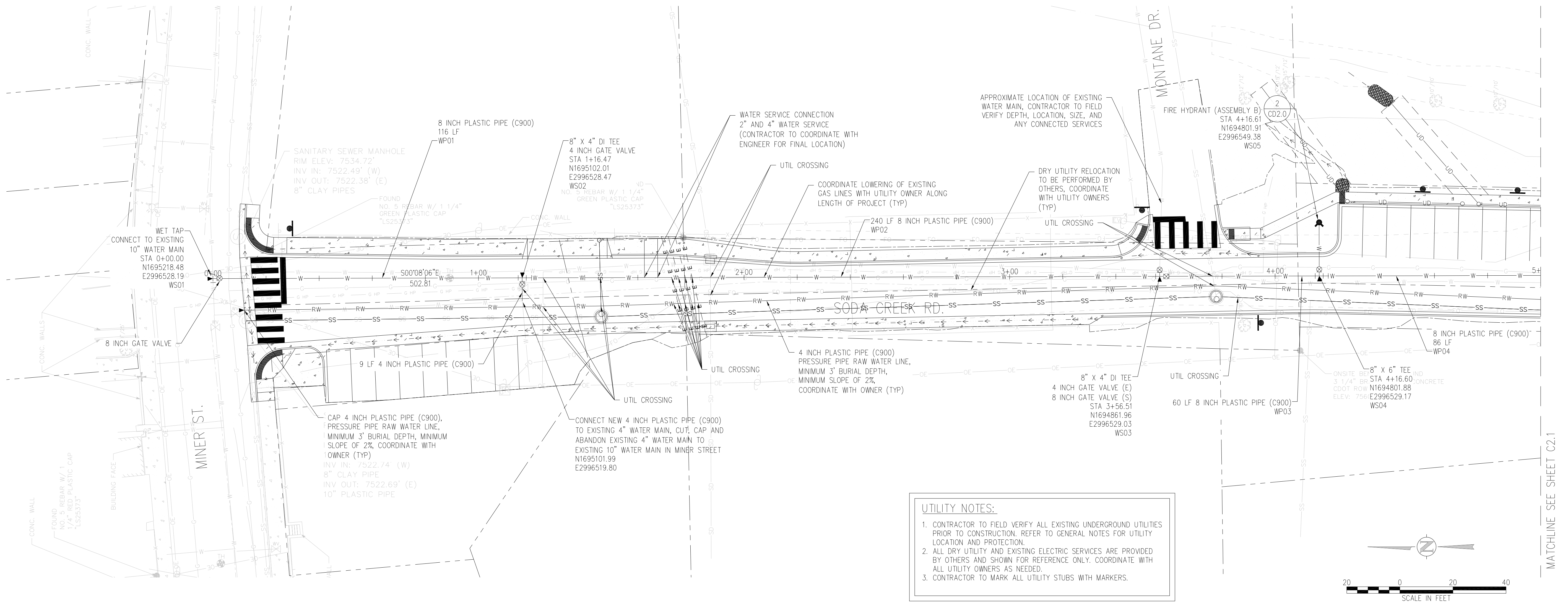


SIGN DETAIL
NTS C1.0



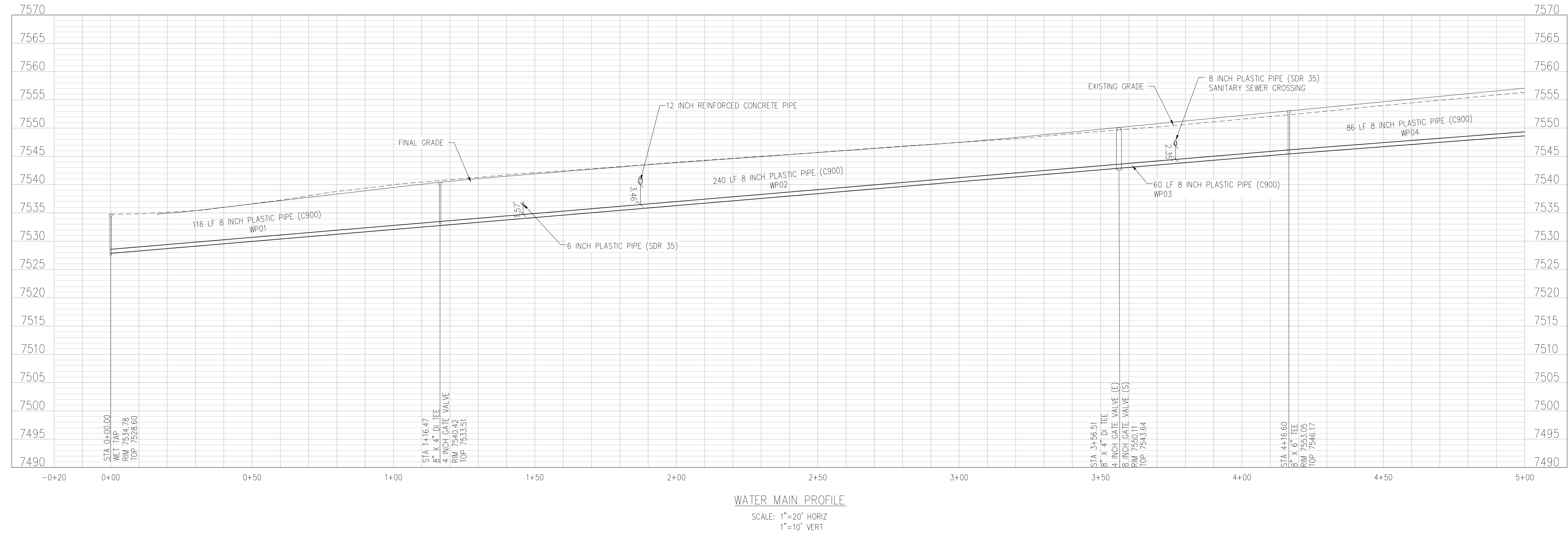
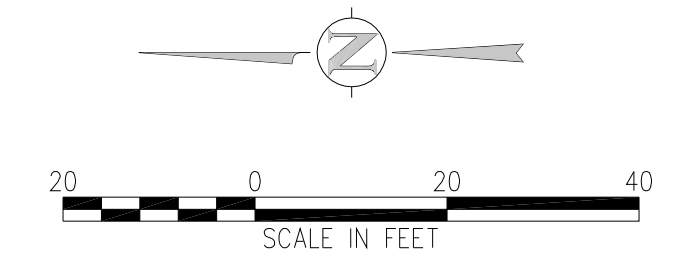
SPEED HUMP DETAIL
NTS C1.2

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UTILITY NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
2. ALL DRY UTILITY AND EXISTING ELECTRIC SERVICES ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



WATER MAIN PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT

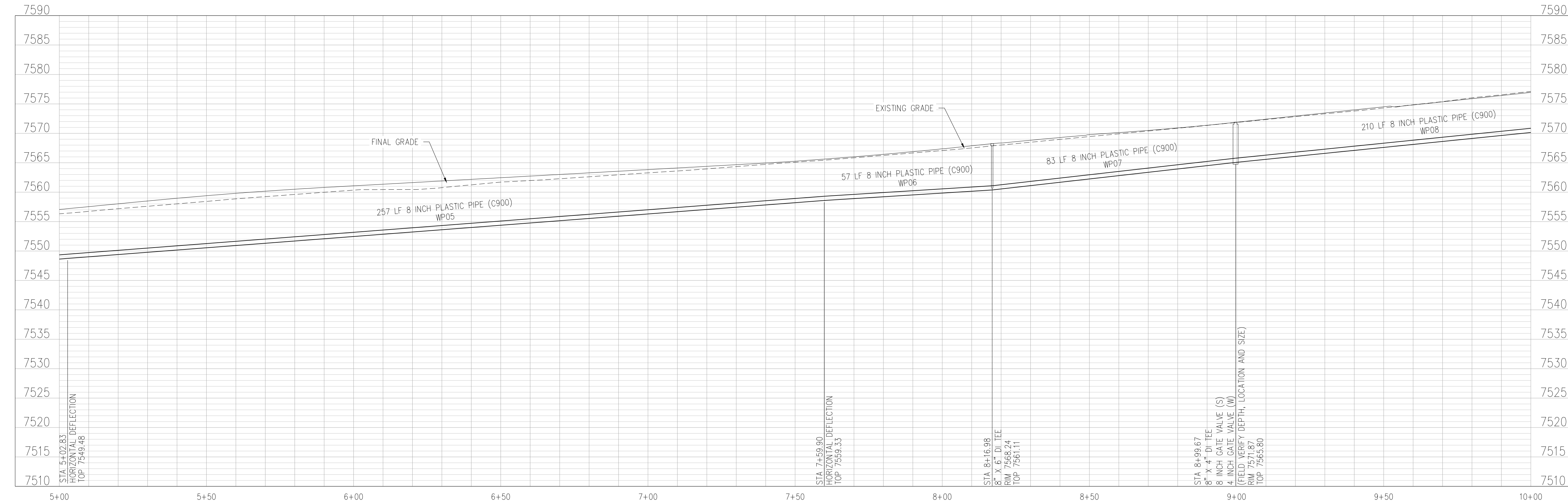
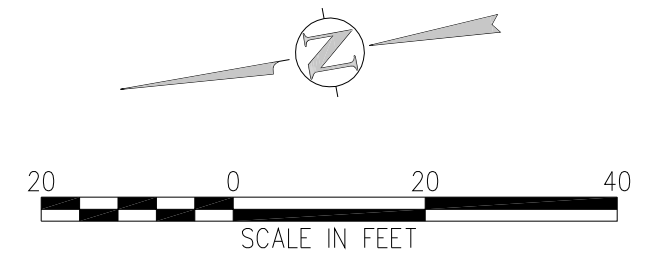
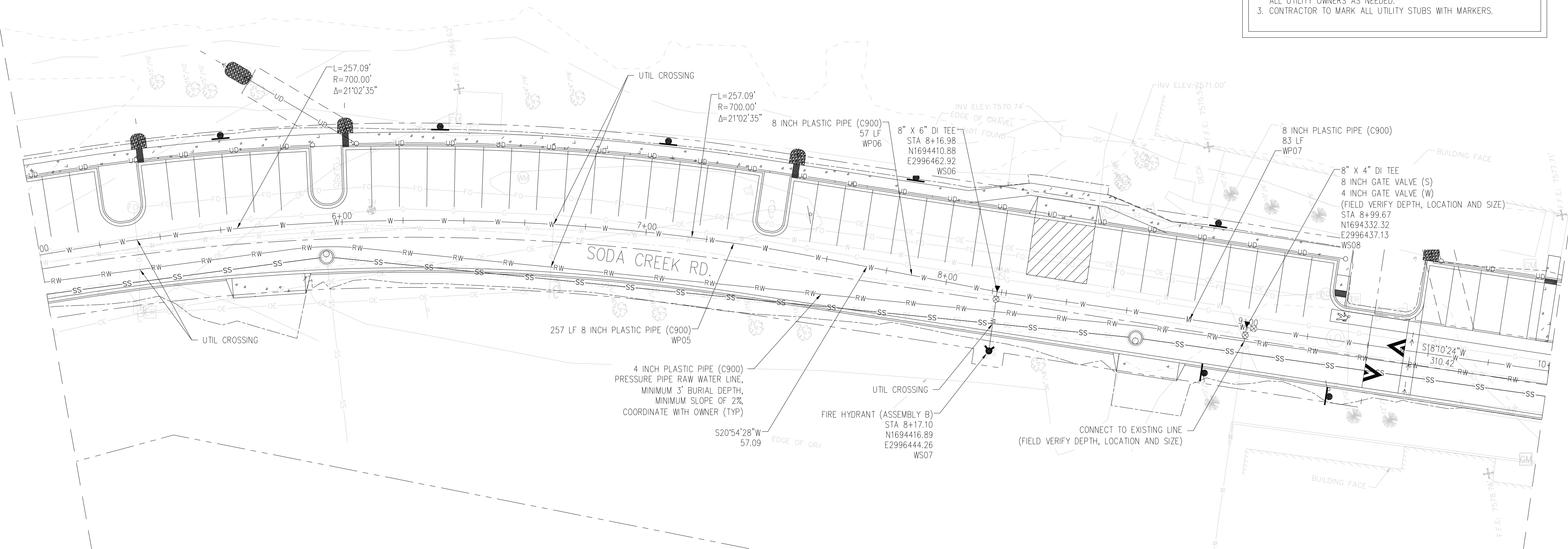
MATCHLINE SEE SHEET C2.1

UTILITY NOTES:

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MATCHLINE SEE SHEET C2.0

MATCHLINE SEE SHEET C2.2



WATER MAIN PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT

NO.	DATE	DES'D	DOWN	REVISION DESCRIPTION

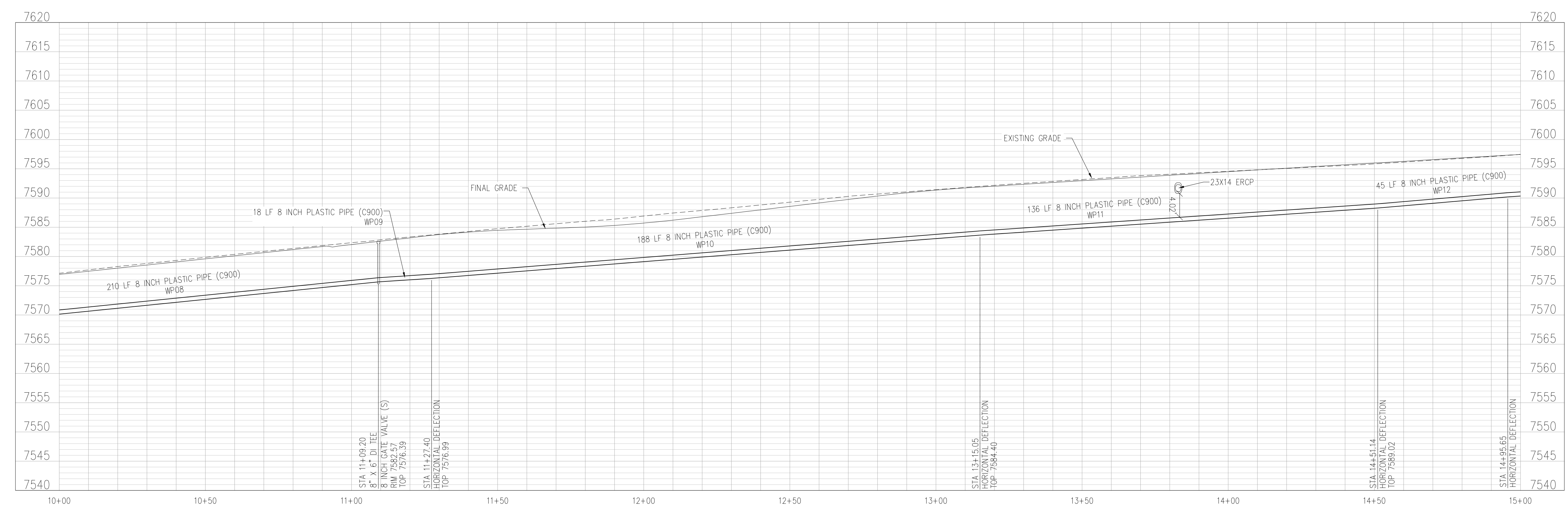
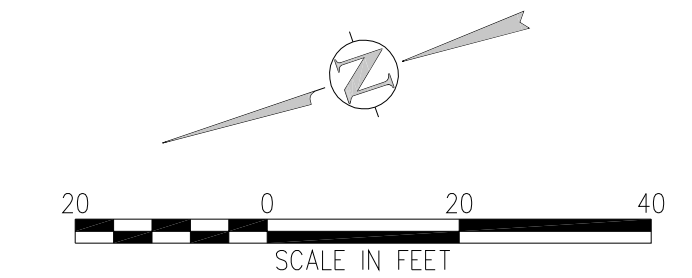
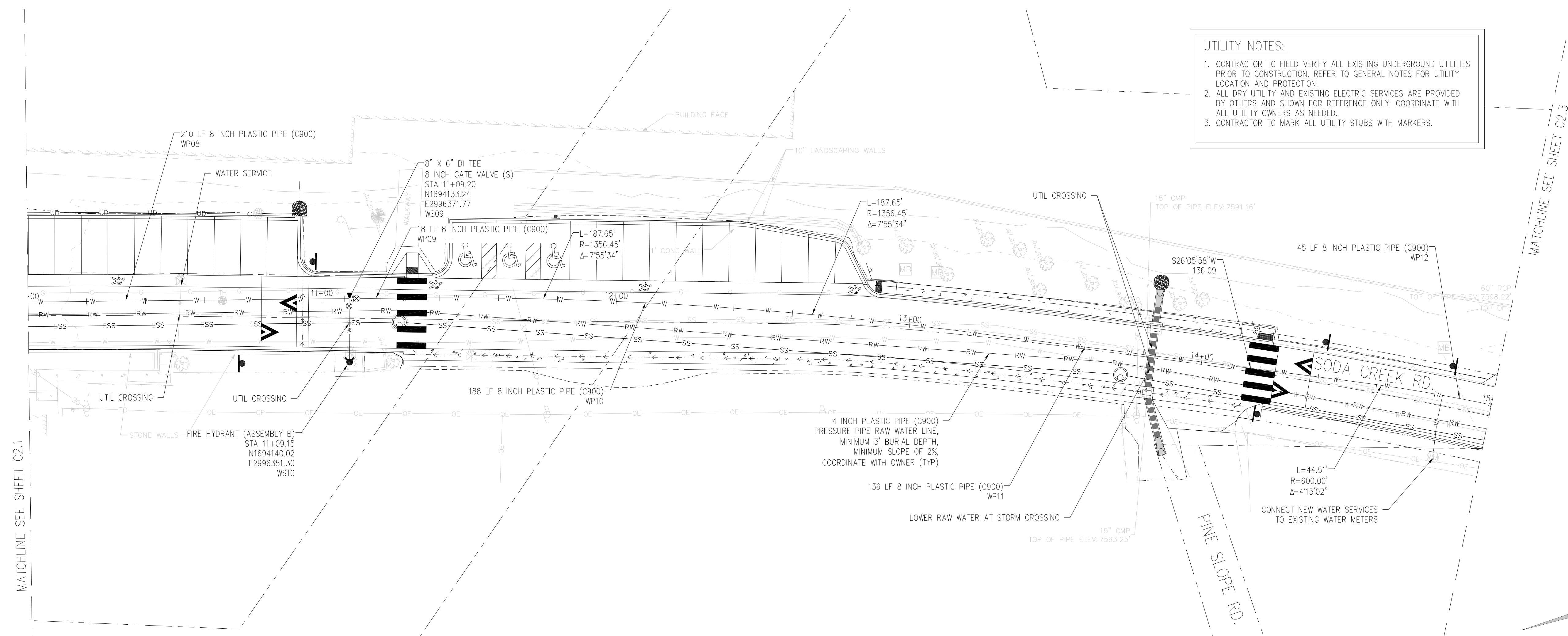


DESIGNED BY: EKB
DRAWN BY: EKB
CHECKED BY: ATG
JOB #: 10092835
DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
WATER PLAN AND PROFILE
STA 5+00 TO STA 10+00

UTILITY NOTES:

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3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



WATER MAIN PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT

NO.	DATE	DESIGNED BY	DESCRIPTION

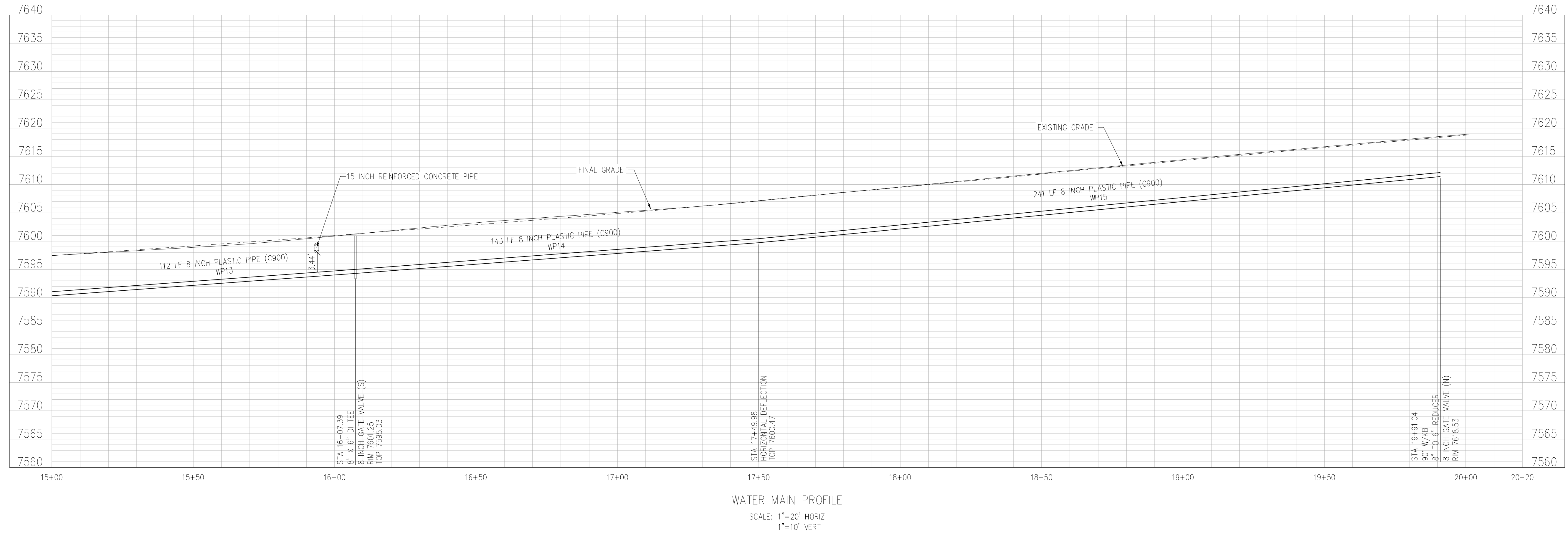
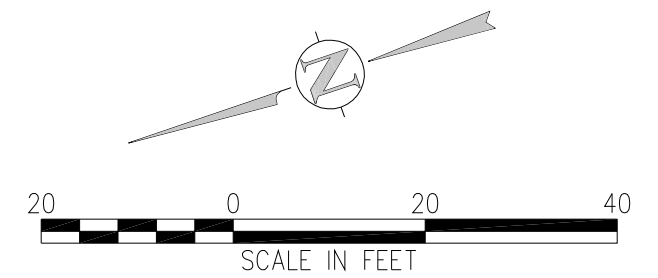
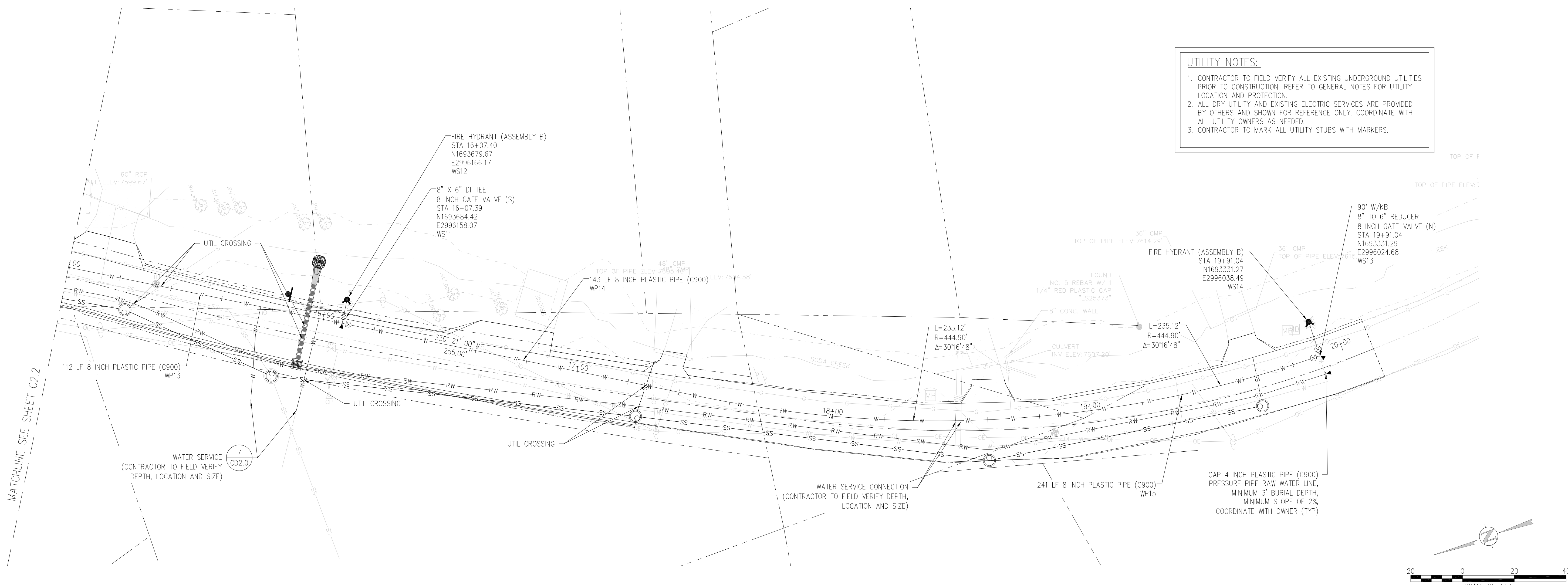


DESIGNED BY: EKB
DRAWN BY: EKB
CHECKED BY: ATG
JOB #: 10092835
DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
WATER PLAN AND PROFILE
STA 10+00 TO STA 15+00

UTILITY NOTES:

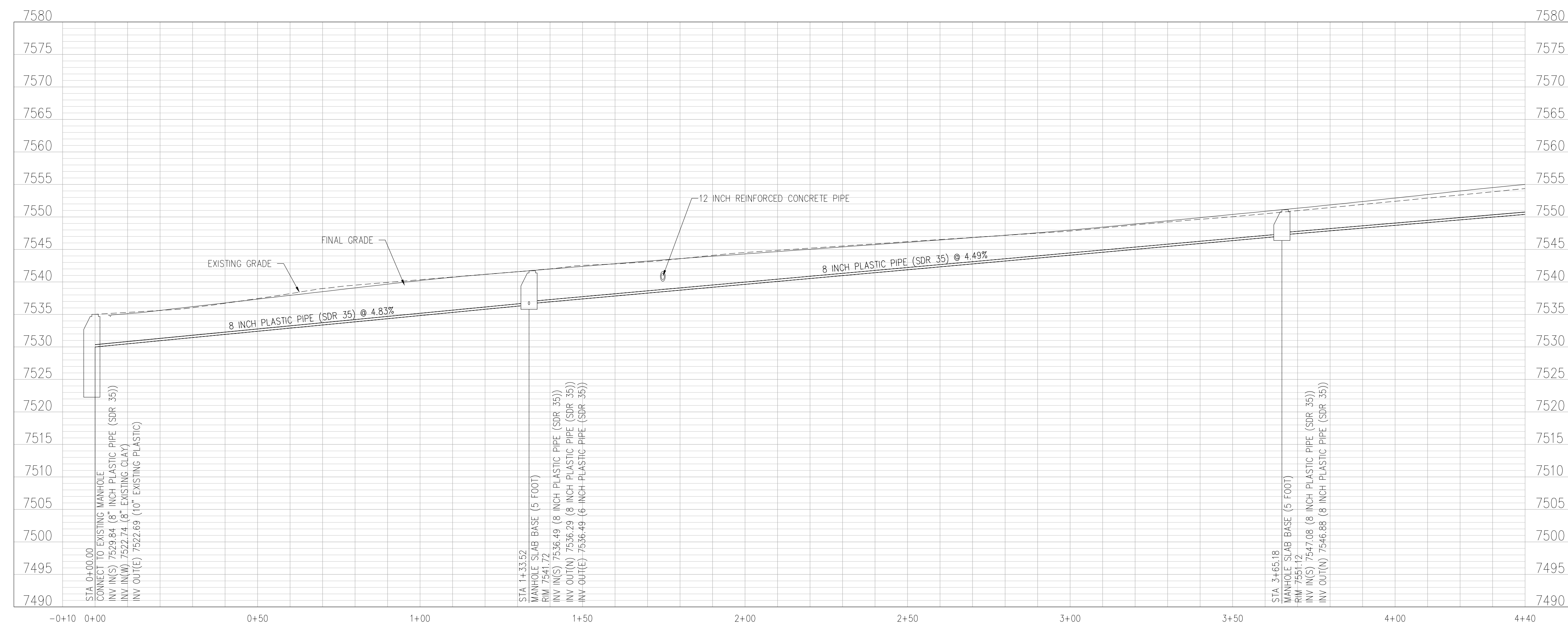
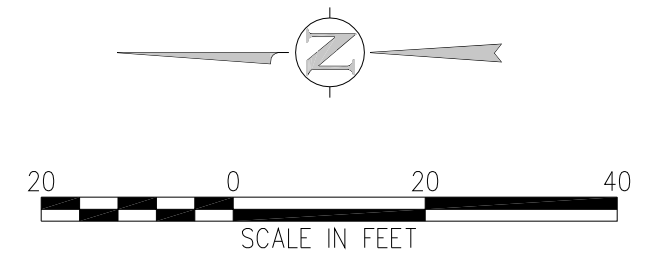
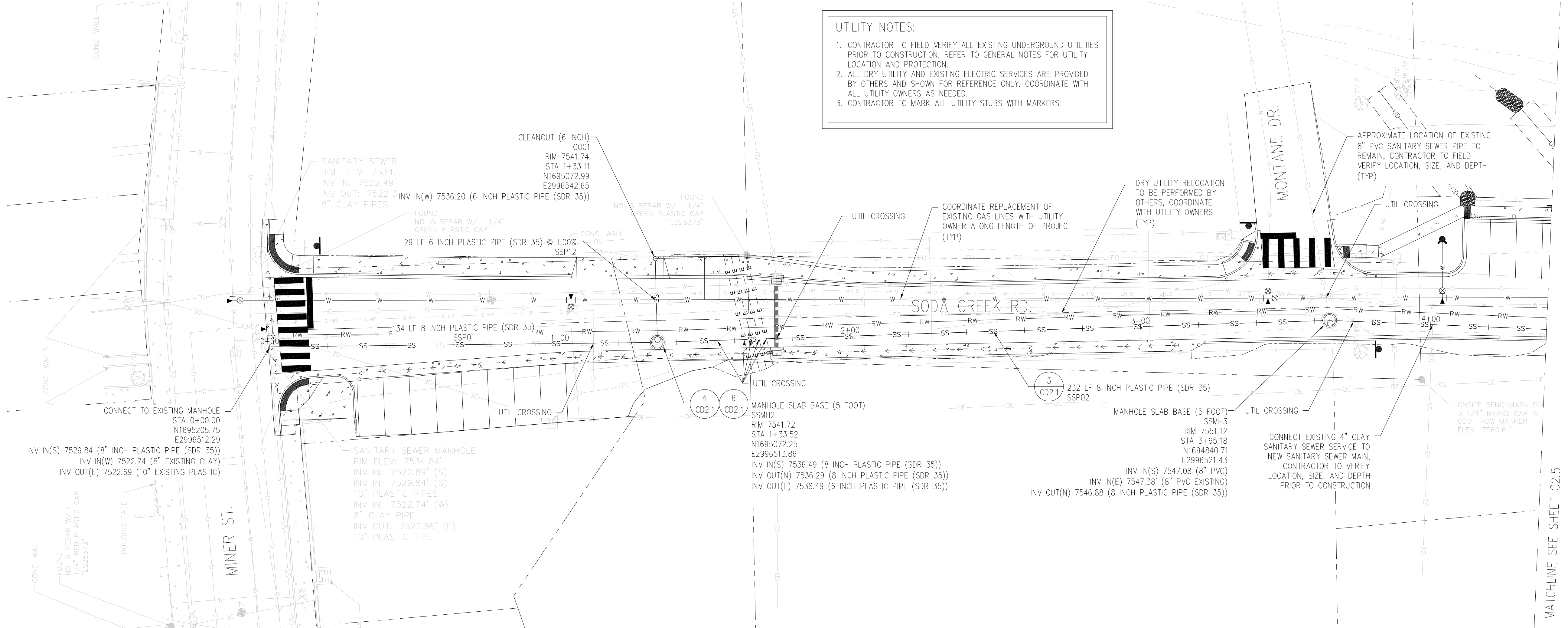
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
- ALL DRY UTILITY AND EXISTING ELECTRIC SERVICES ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
- CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



MATCHLINE SEE SHEET C2.2

UTILITY NOTES:

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3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



SANITARY SEWER PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT

NO. | DATE | DESD | DWN



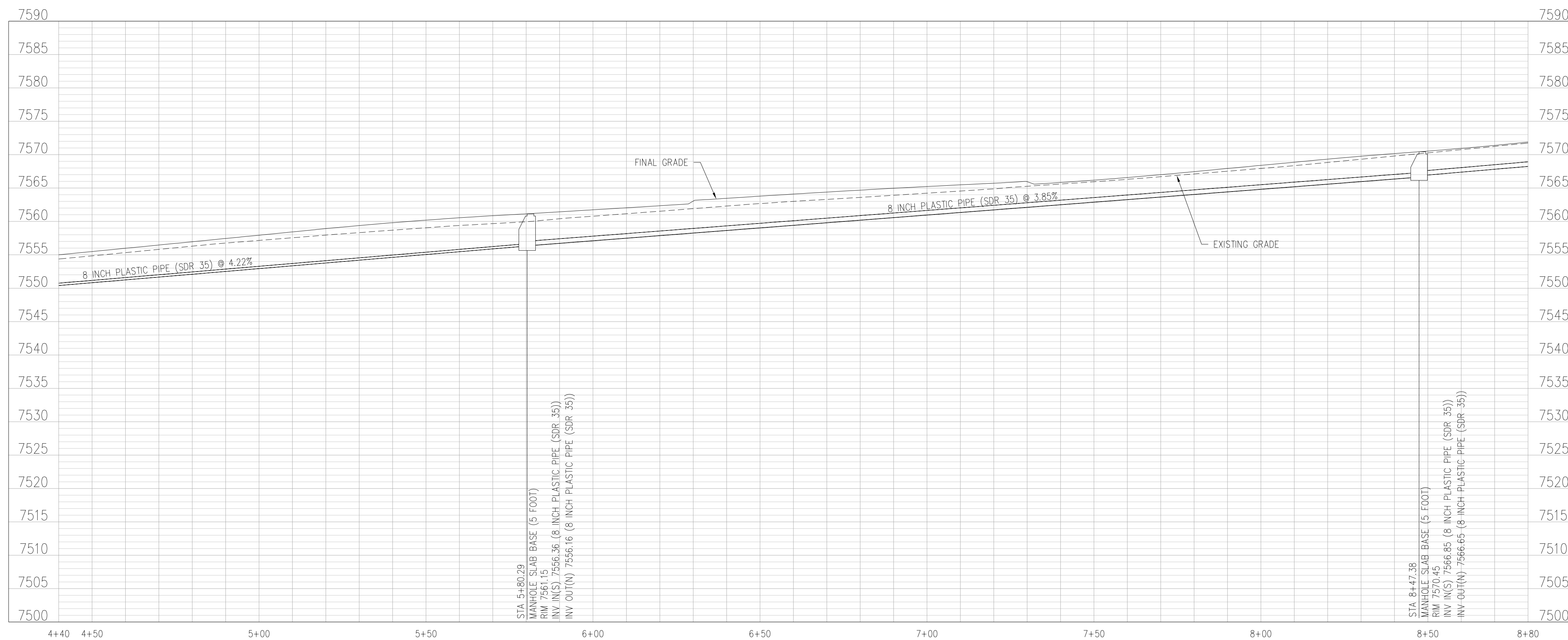
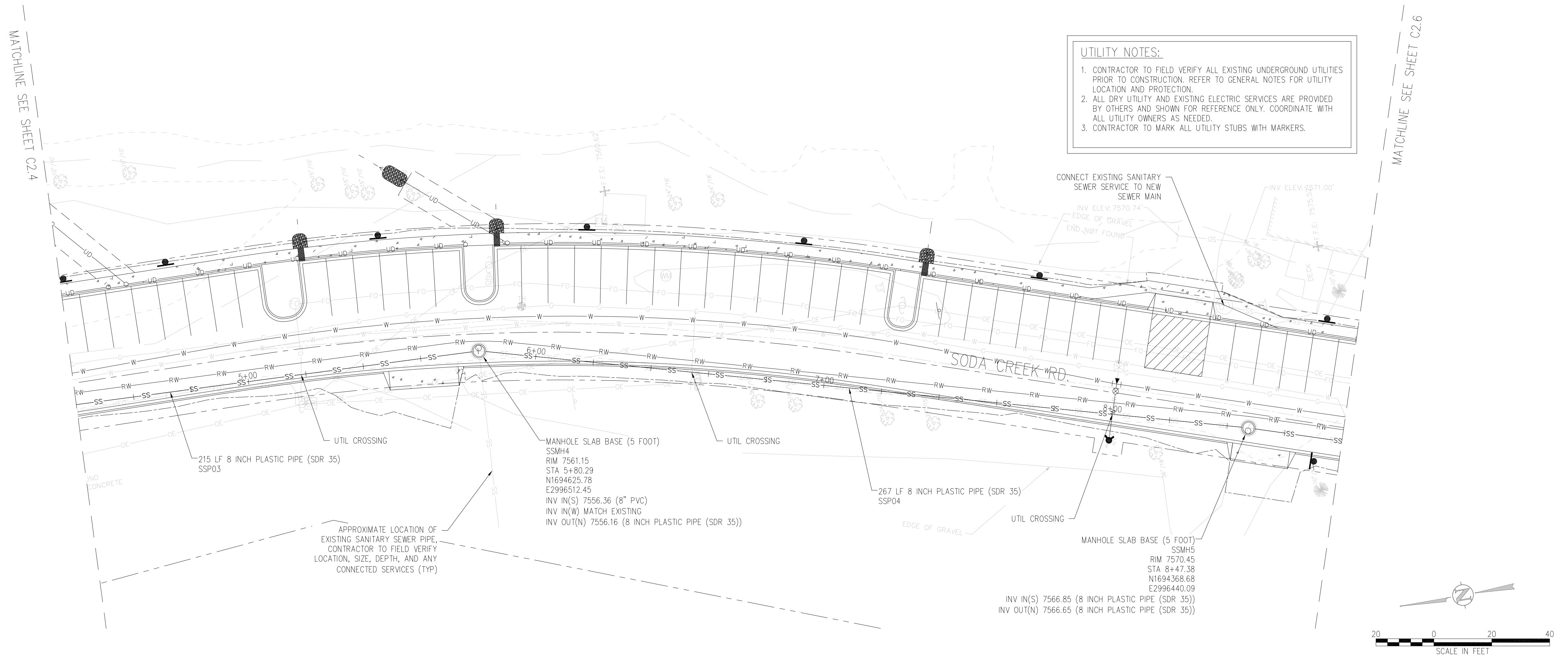
DESIGNED BY: EKB
DRAWN BY: EKB
CHECKED BY: ATG
JOB #: 10092835
DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
SANITARY PLAN AND PROFILE
BEGIN TO STA 4+40

SHEET NO.
C2.4

UTILITY NOTES:

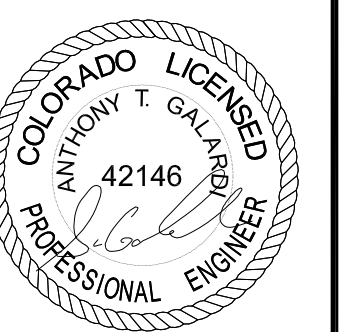
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
2. ALL DRY UTILITY AND EXISTING ELECTRIC SERVICES ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



SANITARY SEWER PROFILE

SCALE: 1"=20' HORIZ
1"=10' VERT

NO.	DATE	DES'D	DOWN	REVISION DESCRIPTION



DESIGNED BY: EKB
DRAWN BY: EKB
CHECKED BY: ATG
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DATE: 09/04/2018

SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
SANITARY PLAN AND PROFILE
STA 4+40 TO STA 8+80

SHEET NO.

C2.5



NO. DATE DESD DWN REVISION DESCRIPTION

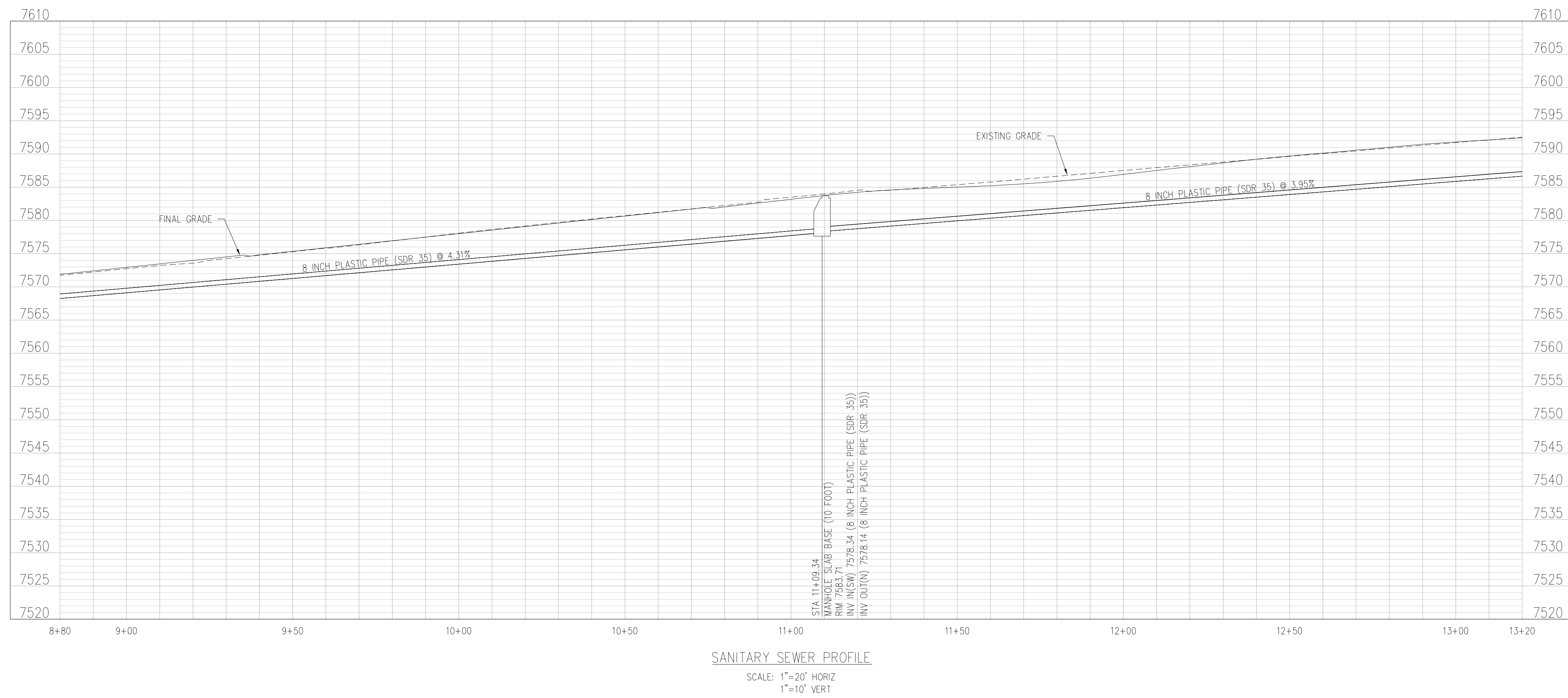
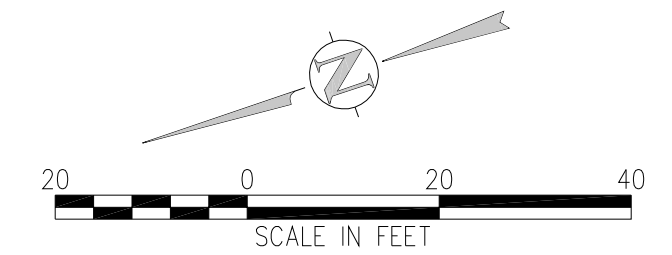
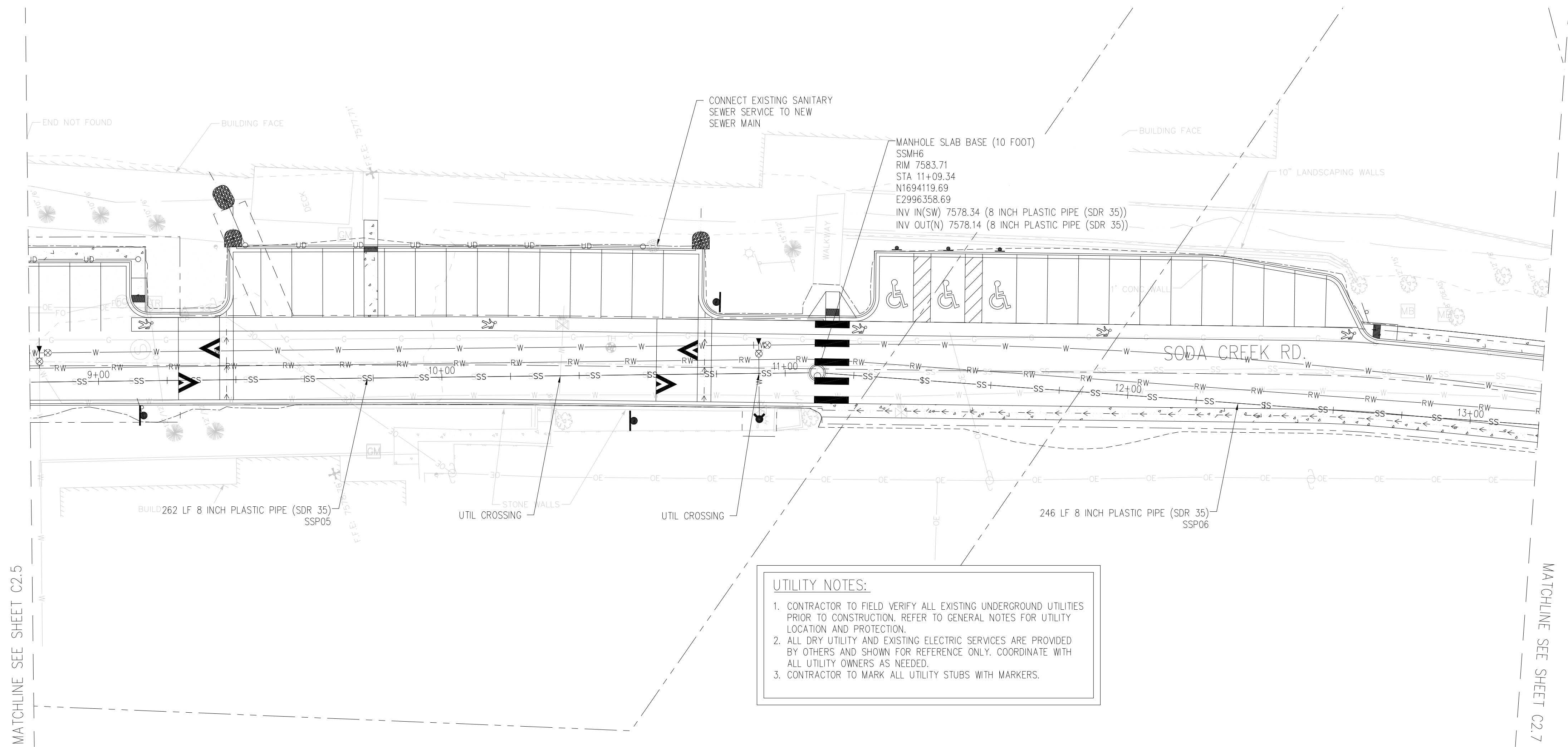


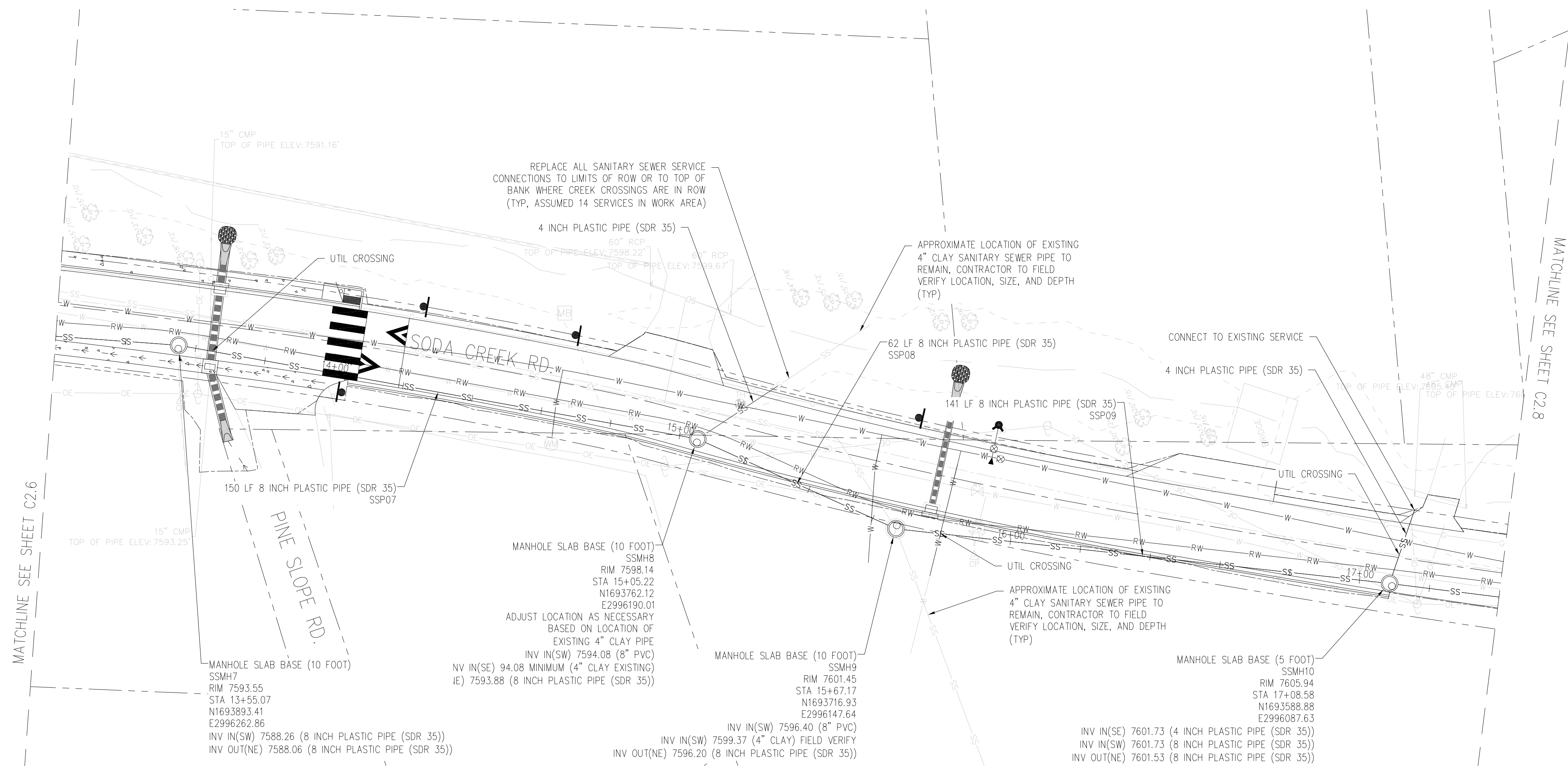
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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
SANITARY PLAN AND PROFILE
STA 8+80 TO STA 13+20

SHEET NO.

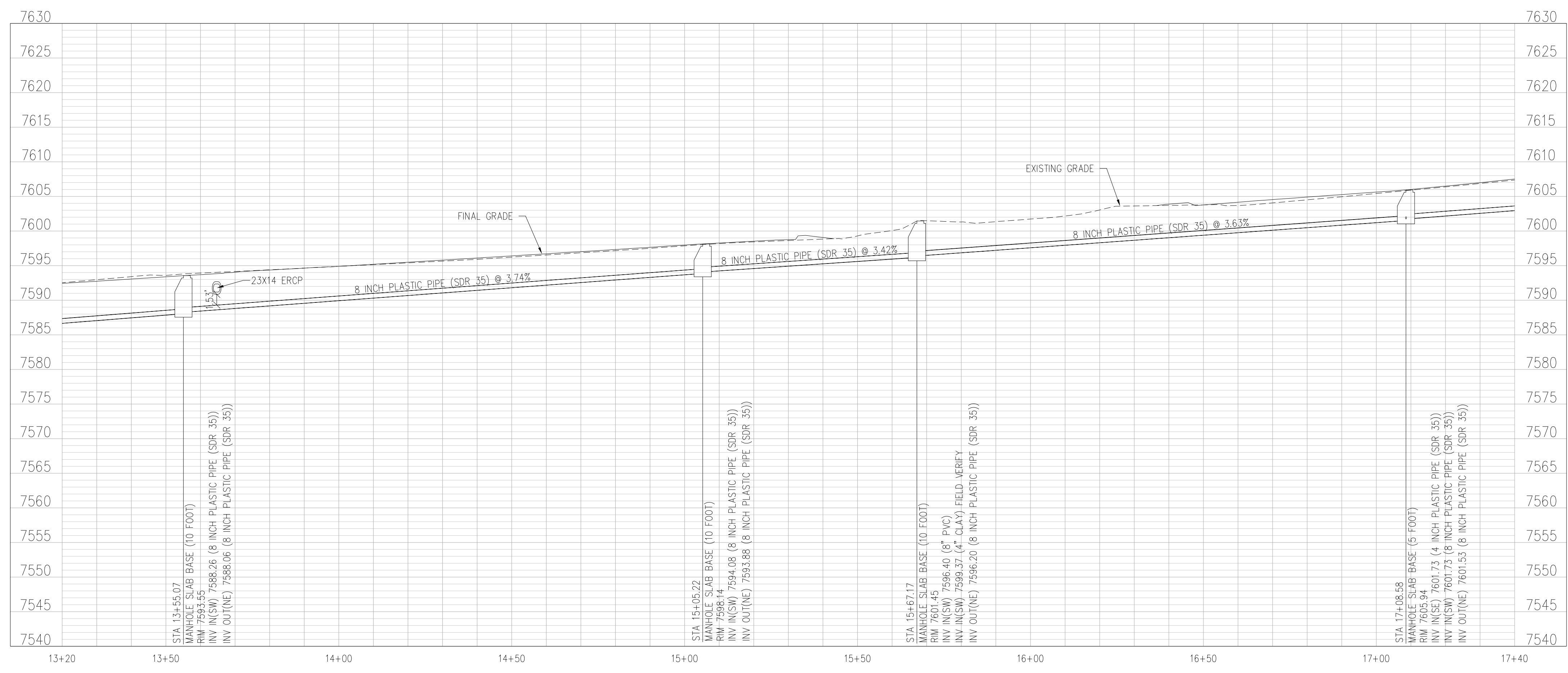
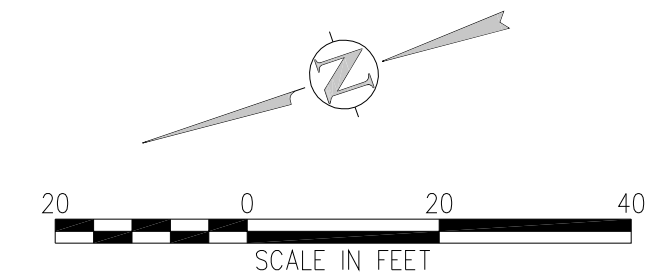
C2.6





UTILITY NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
2. ALL DRY UTILITY AND EXISTING ELECTRIC SERVICES ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



SANITARY SEWER PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT



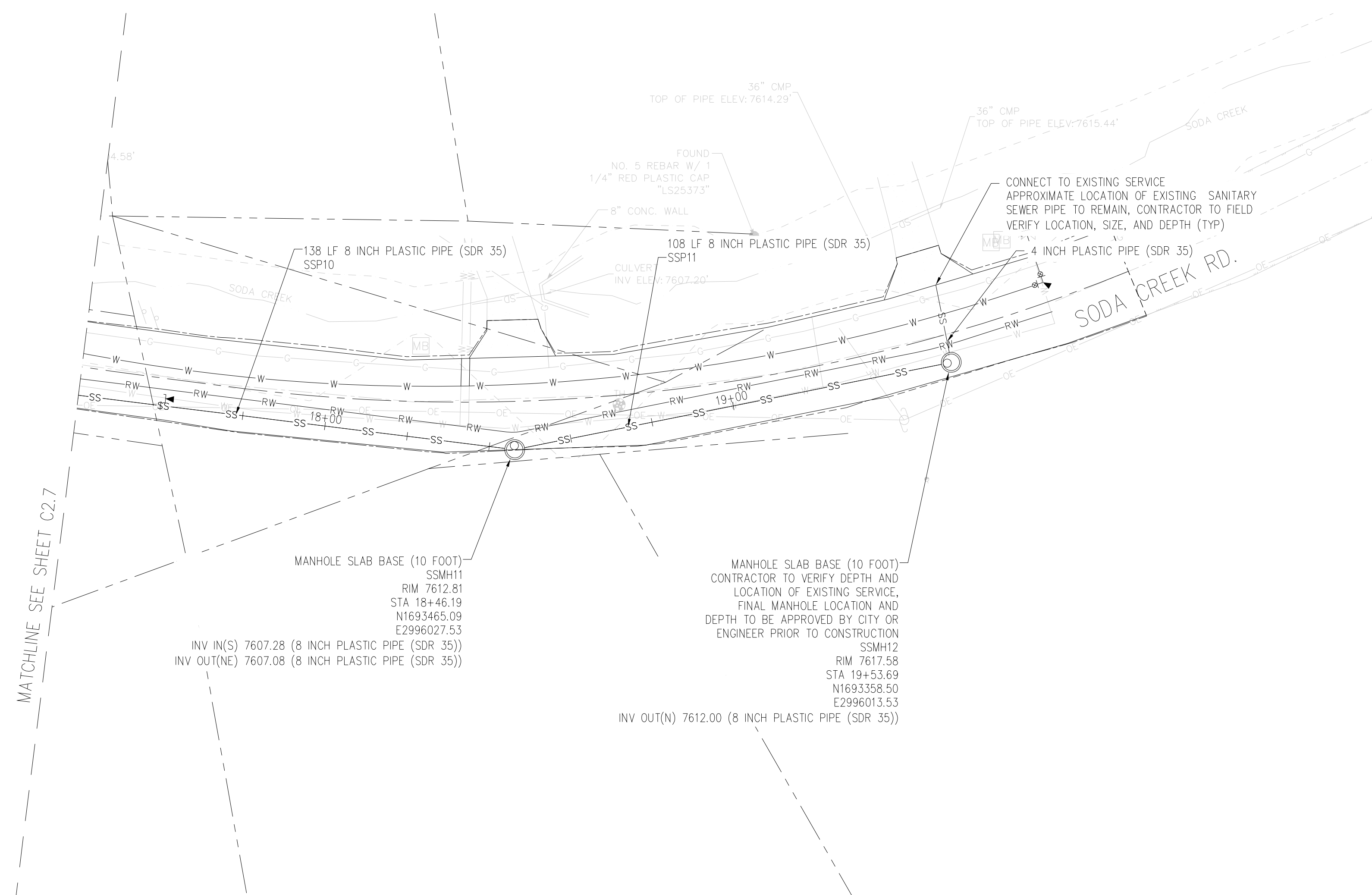
NO.	DATE	DESIGNED BY	DESCRIPTION



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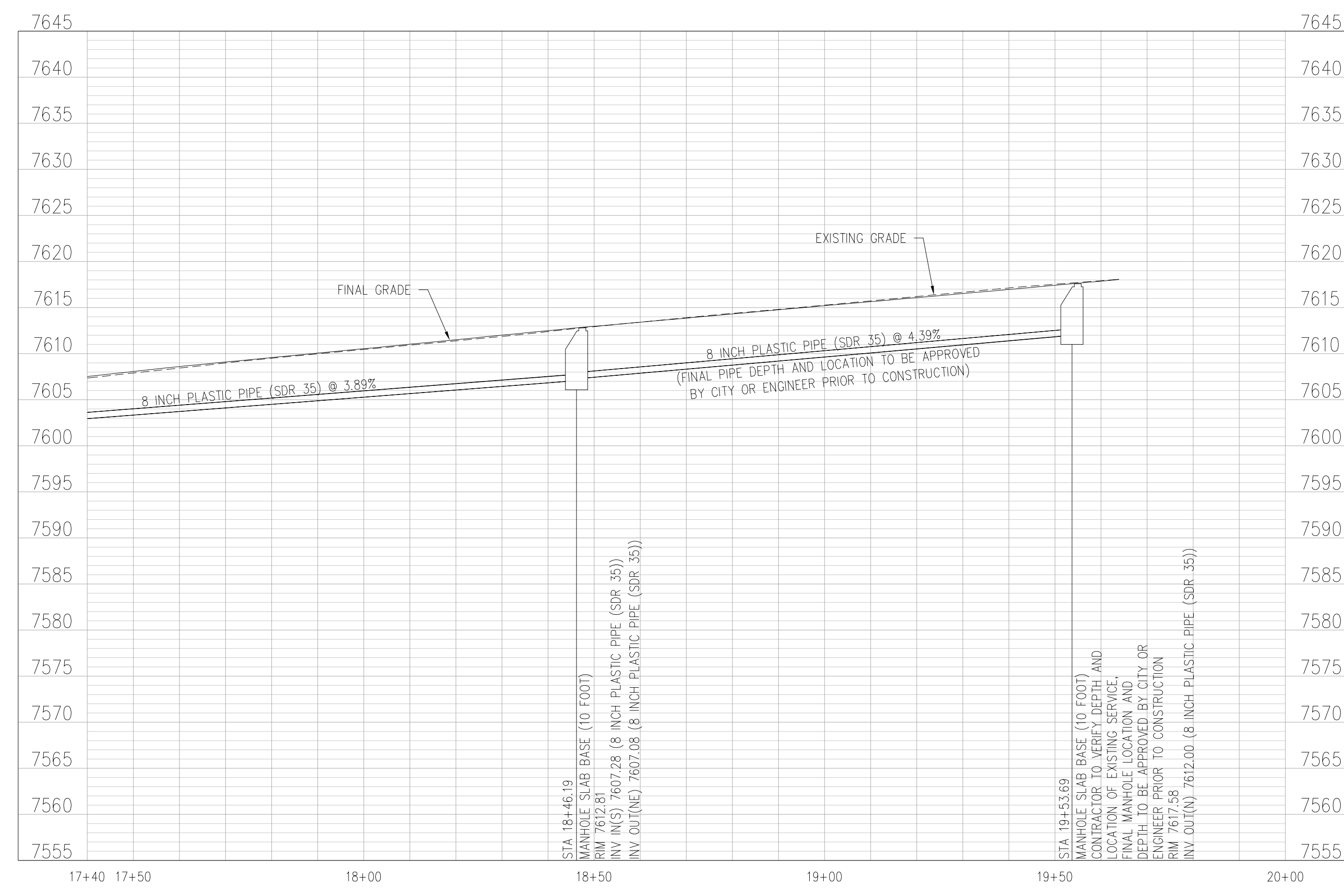
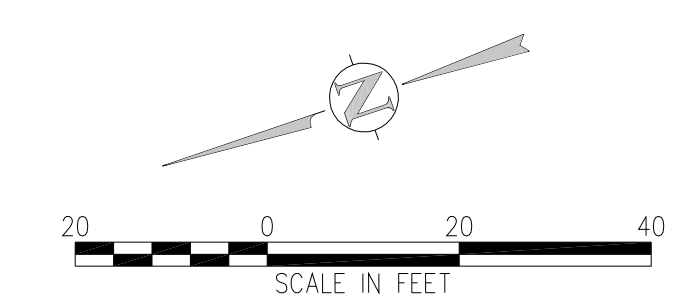
SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
SANITARY PLAN AND PROFILE
STA 13+20 TO 17+50

SHEET NO.
C2.7



UTILITY NOTES:

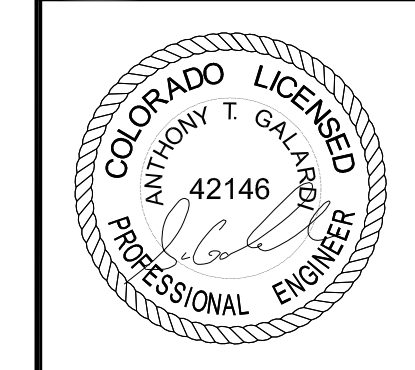
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
- ALL DRY UTILITY AND EXISTING ELECTRIC SERVICES ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
- CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



SANITARY SEWER PROFILE
SCALE: 1"=20' HORIZ
1"=10' VERT



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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
SANITARY PLAN AND PROFILE
STA 17+50 TO END

SHEET NO.
C2.8

Length of Restrained Pipe

PIPE SIZE	4"		6"		8"		12"		16"		20"		24"	
	D	L	D	L	D	L	D	L	D	L	D	L	D	L
FITTING	90° BEND	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
	TEE, PLUG	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
VALVE	4.5" BEND	9"	9"	9"	9"	9"	9"	9"	9"	9"	9"	9"	9"	9"
	22 1/2" BEND	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
BEND	11 1/4" BEND	-	-	-	-	-	-	-	-	-	-	-	-	-
	24" BEND	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

- LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
- CLAMPS, RODS & MEGALUGS NOT ALLOWED FOR 24" & LARGER PIPES.
- D=DIAMETER, L=LENGTH, G=GRADE, M=MILD STEEL, MS=MILD STRENGTH.
- MIN 4.5" GROUND COVER RECD.
- BASED ON 150 PSI INTERNAL PRESSURE.
- MS = MILD STEEL ROD ASTM A 36.
- PS = HIGH STRENGTH ROD ASTM A 193 GRADE B7.
- PS = HIGH STRENGTH ROD ASTM A 193 GRADE A OR B HEAVY HEAVY SERIES; HIS NUTS SHALL CONFORM TO STANDARDS.
- SEE THE ROD DETAIL DRAWING. ALSO, THE ROD COUPLING DETAILS, CLAMP DETAILS AND SET CLAMP DETAILS LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
- LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
- CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.
- 12" AND SMALLER IN LINE VALVES AND TEES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE.
- A SECOND VALVE WILL BE RECD TO BE CLOSED WHEN EXCAVATING NEXT TO A EXIST VALVE.
- ON PLUGS, TEES AND BENDS WORKBOOK SHALL BE USED IN ADDITION TO RESTRAINT.
- WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS, THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE AND NOT THE SIZE OF THE VALVE.

CITY OF IDAHO SPRINGS
Standard Details Fig 25 May 2016

Joint Restraint

NOTES:

- THE BOLT SHALL BE MANUFACTURED OF "COR-TEN" OR APPROVED EQUAL.
- THE BOLT MAY BE HEAT TREATED.

ALLOWABLE PIPE SIZE INCHES	BOLT SIZE INCHES	NO OF BOLTS RECD
4	3/4	2
6	3/4	2
8	3/4	2
10	3/4	4
12	3/4	6

CITY OF IDAHO SPRINGS
Standard Details Fig 23 May 2016

Fire Hydrants Plan, Profile, and Location

NOTES:

- NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH OR SPRINKLER LINES.

CITY OF IDAHO SPRINGS
Standard Details Fig 31 May 2016

Typical Utility Layout

CITY OF IDAHO SPRINGS
Standard Details Fig 12 May 2016

FILENAME: 1529.28C-C02.0-UTILITY DETAILS.DWG

FILENAME: 1529.28C-C02.0-UTILITY DETAILS.DWG

FILENAME: 1529.28C-C02.0-UTILITY DETAILS.DWG

FILENAME: 1529.28C-C02.0-UTILITY DETAILS.DWG

Service Line, Stop Box and Inside Meter Installation for Existing 3/4" and 1" Meters

NOTES:

- PLACE STOP BOX WITHIN 5 FT EITHER SIDE OF PL. PLACEMENT OUTSIDE PL IS PREFERRED.
- INDOOR METER SETTING IS PERMITTED ONLY IF TOTAL LENGTH OF SERVICE PIPE DOES NOT EXCEED 60 FT FROM MAIN TO METER SETTING.
- INDOOR METER SHALL BE PLACED IN BASEMENT WITH FLOOR DRAIN NEARBY.
- IRON REMOTE ERT WILL BE MOUNTED BY CITY AT TIME METER IS SET. ERT IS USUALLY LOCATED NEAR BASEMENT CEILING ON OUTSIDE WALL FACING STREET. IF CONDITIONS INTERFERE WITH RADIO METER READING, ERT MAY BE MOUNTED ON OUTSIDE OF BUILDING FACING STREET.
- NO BENDS, FITTINGS, CONNECTIONS, OR CHANGES IN PIPE SIZE PERMITTED ON TAP AND METER OUTLET VALVE, EXCEPT AS SHOWN.
- PROPERTY OWNER OWNS ENTIRE SERVICE LINE FROM CURB STOP AT STREET MAIN. OWNER IS RESPONSIBLE FOR REPAIRING LEAKS BEGINNING AT THE CURB STOP. OWNER IS RESPONSIBLE FOR ALL OTHER REPAIRS OR SERVICE LINE REPLACEMENT BEGINNING AT THE MAIN. CITY WILL REPAIR SERVICE LINE LEAKS BETWEEN THE WATER MAIN AND THE OUTLET SIDE OF THE CURB STOP.
- CITY IS NOT RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR DUE TO A LEAK ANYWHERE ON THE SERVICE LINE. ALL DAMAGE IS THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.

CITY OF IDAHO SPRINGS
Standard Details Fig 39 May 2016

Concrete Thrust Blocks

WATER MAIN AND TAP SIZE COMBINATIONS WHICH REQUIRE A CONC THRUST BLOCK BEHIND THE MAIN AT THE TAPPING SLEEVE OR SADDLE

ALL WATER MAINS

INDICATED CONC THRUST BLOCK RECD MAIN SIZE (INCHES)

TAP SIZE (INCHES)	4	6	8	10	12	14	16	18	20	22	24	26	28	30	36	42
4	X															
6	X	X														
8	X	X	X													
10	X	X	X	X												
12	X	X	X	X	X											
14	X	X	X	X	X	X										
16	X	X	X	X	X	X	X									
18	X	X	X	X	X	X	X	X								
20	X	X	X	X	X	X	X	X	X							
22	X	X	X	X	X	X	X	X	X	X						
24	X	X	X	X	X	X	X	X	X	X	X					

CITY OF IDAHO SPRINGS
Standard Details Fig 28 May 2016

Concrete Thrust Blocks - 1 of 2

NOTES:

- BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
- BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER 4", 6", 8", & 12" WATER HAMMER = 110 PSJ
- BASED ON 3000psf SOIL BEARING CAPACITY

SIZE OF PIPE	SURFACE AREA (SQ FT) OF TEE OR DEAD END BENDS			
	11-1/4"	22-1/2"	45"	90"
4"	1.50	1.00	1.00	1.00
6"	3.00	1.00	1.25	2.25
8"	5.25	1.00	2.00	4.00
12"	11.25	2.25	4.50	8.75
16"	19.00	3.50	7.50	14.50
20"	25.00	5.00	10.00	19.50
24"	36.00	7.00	14.00	27.75

CITY OF IDAHO SPRINGS
Standard Details Fig 27 May 2016

Mechanical Joint Restraint

NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	DIMENSIONS		
			K2 INCHES	J INCHES	F INCHES
4"	2	2			
6"	6	3	11.12	9.50	7.00
8"	6	4	13.37	11.75	9.15
10"	8	6	15.62	14.00	11.20
12"	8	8	17.88	16.25	13.30
4"	4	2			
6"	6	3	11.12	9.50	7.00
8"	6	4	13.37	11.75	9.15
10"	8	6	15.62	14.00	11.20
12"	8	8	17.88	16.25	13.30
16"	12	12	22.50	21.00	17.94
20"	14	14	27.00	25.50	21.74

CITY OF IDAHO SPRINGS
Standard Details Fig 24 May 2016

EXISTING SERVICE LINE CONNECTION DETAIL
PAID FOR AS WATER SERVICE 619-0002

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FILENAME: 1529.28C-C02.0-UTILITY DETAILS.DWG

FILENAME: 1529.28C-C02.0-UTILITY DETAILS.DWG

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Fax: 303-860-7139

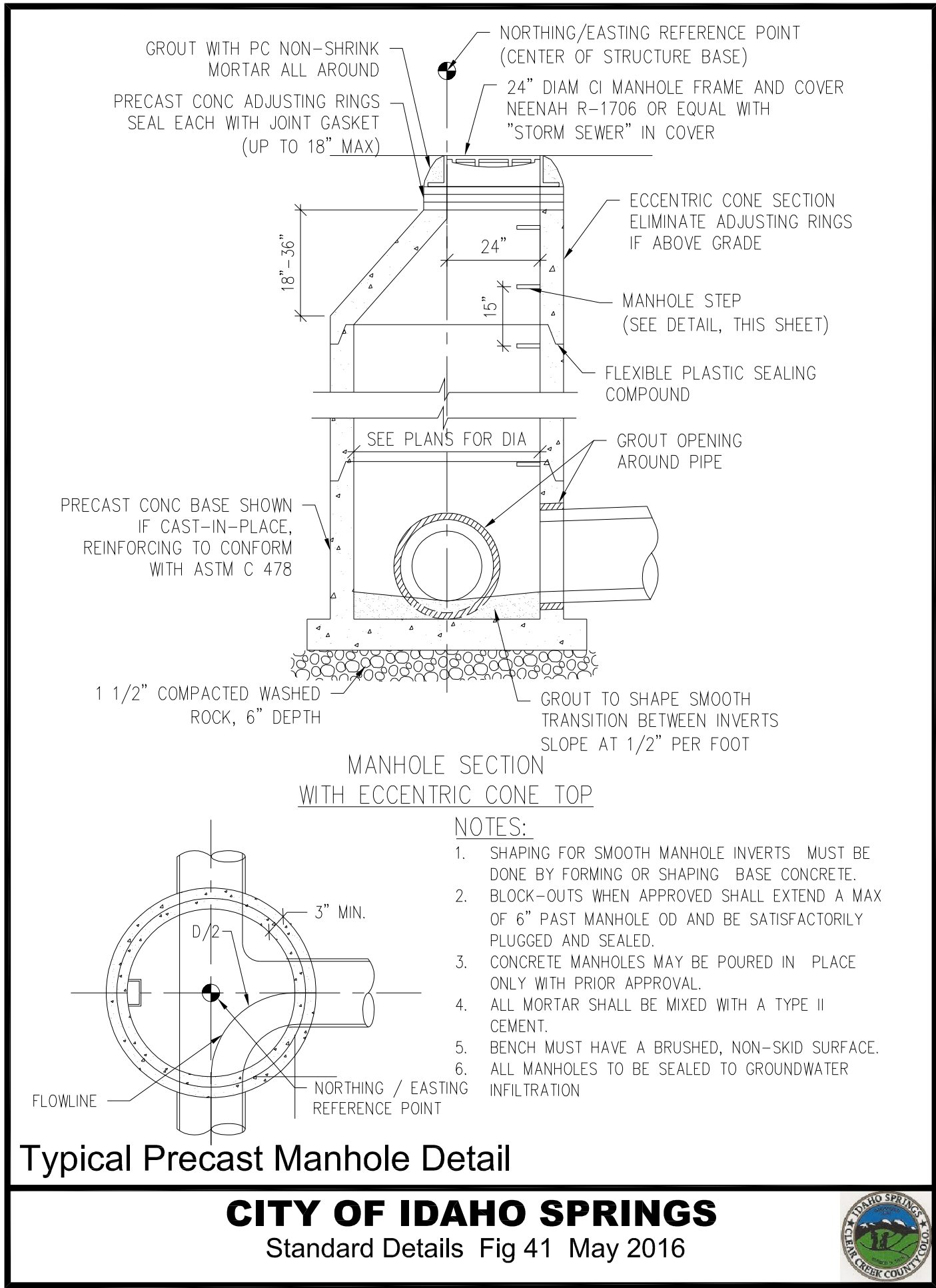
IDAHO SPRINGS
CLEAR CREEK COUNTY, CO

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DATE: 09/04/2018

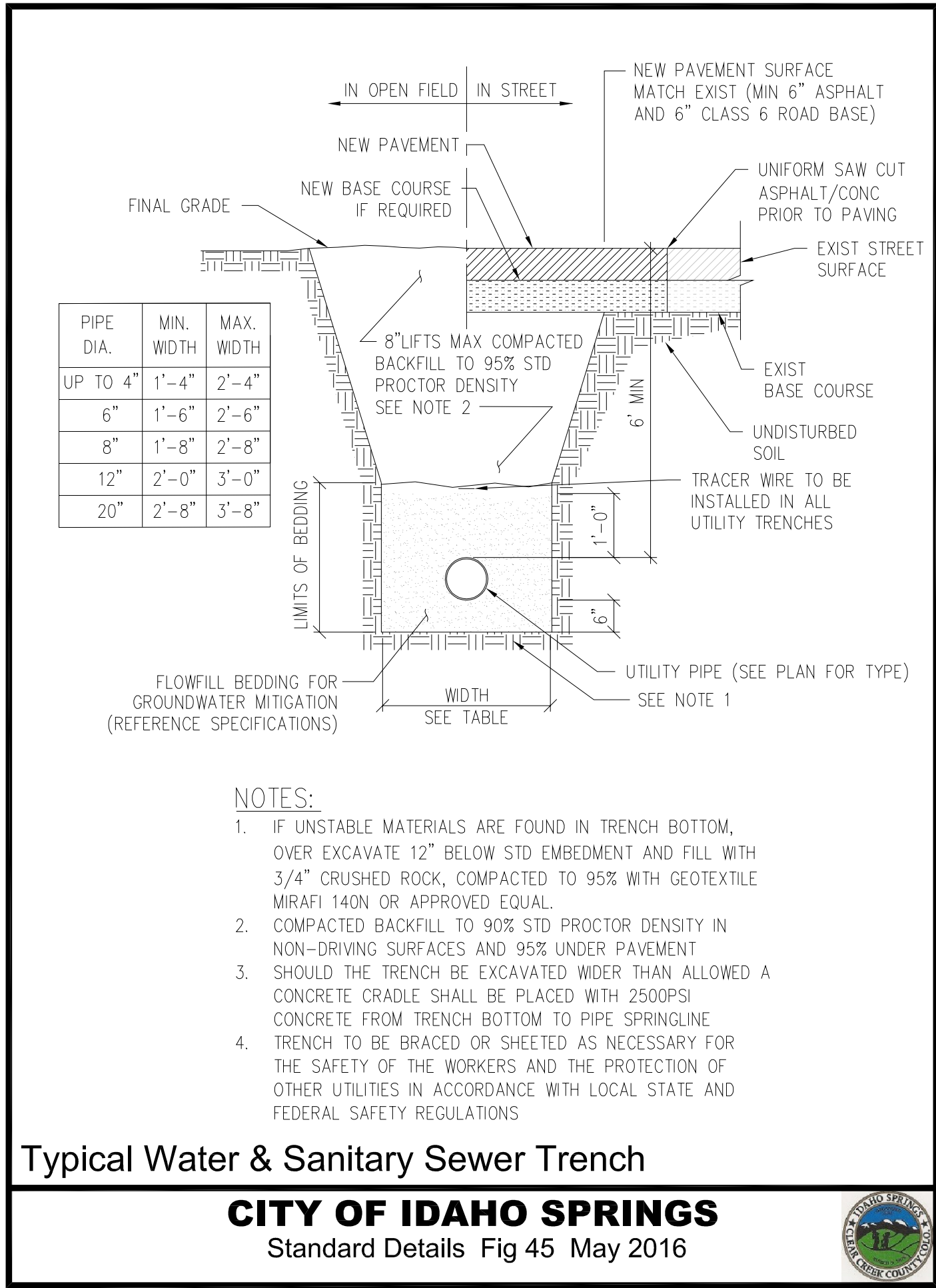
SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

UTILITY DETAILS

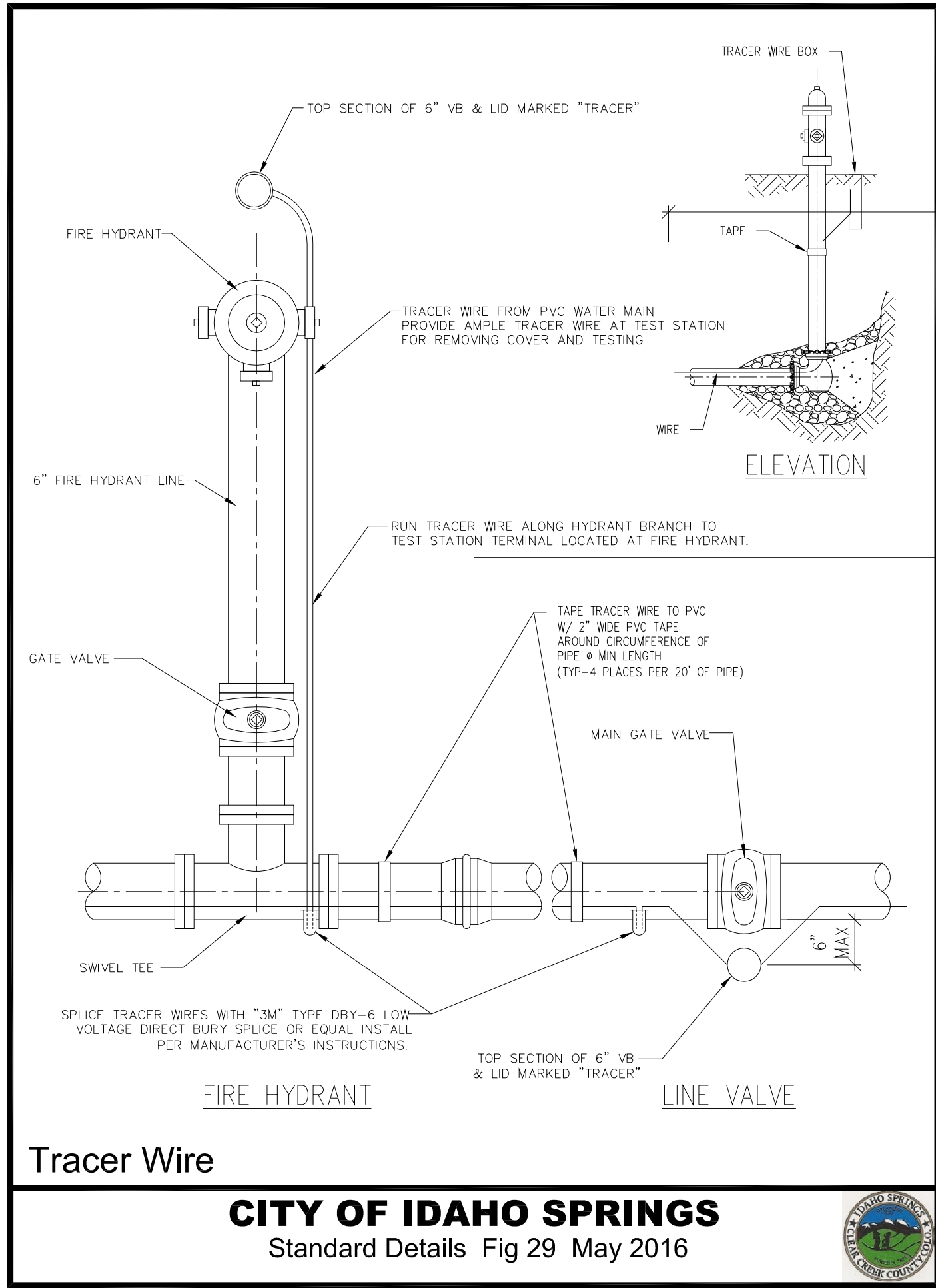
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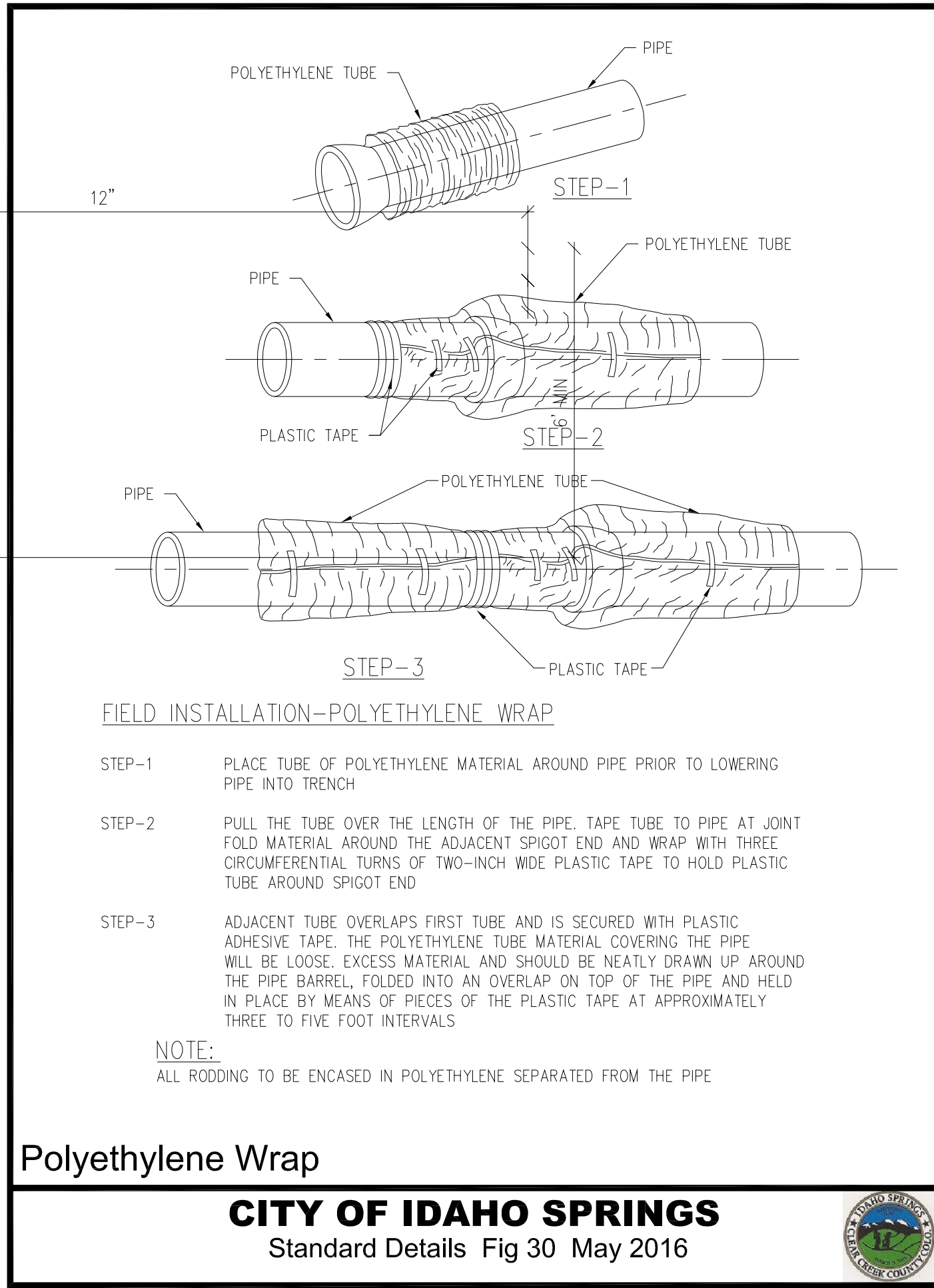
SANITARY SEWER MANHOLE DETAIL 4
NTS C2.4



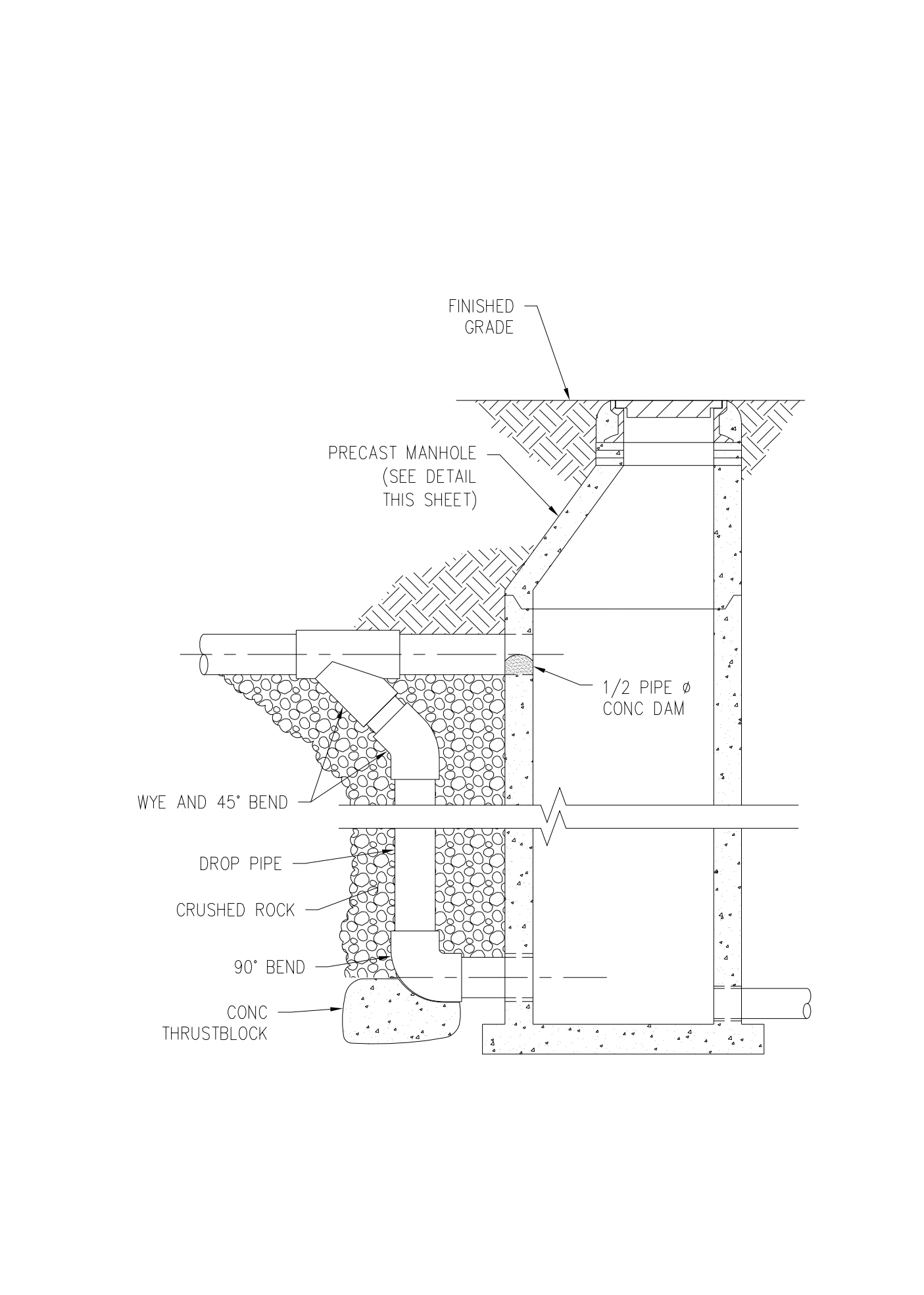
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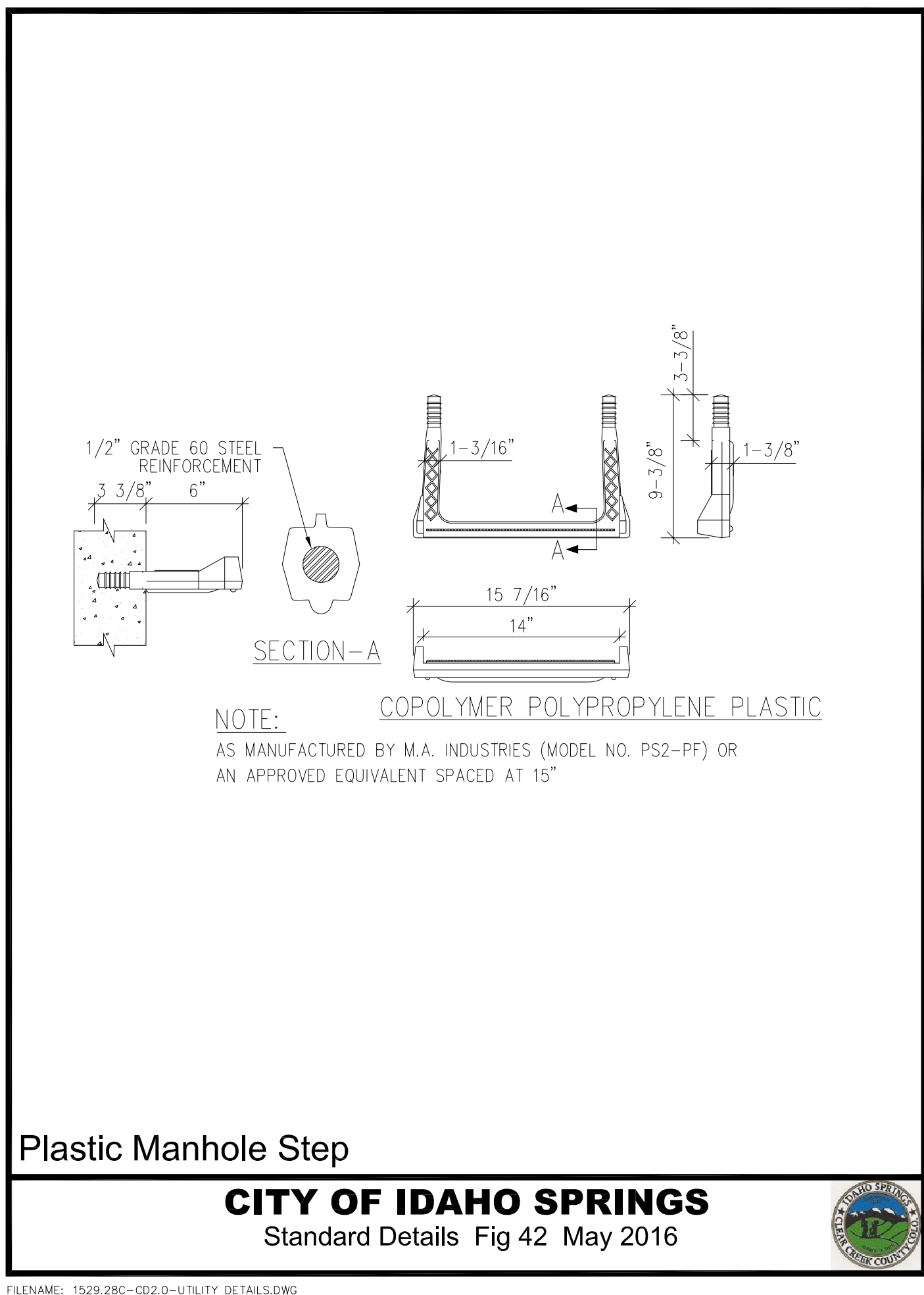
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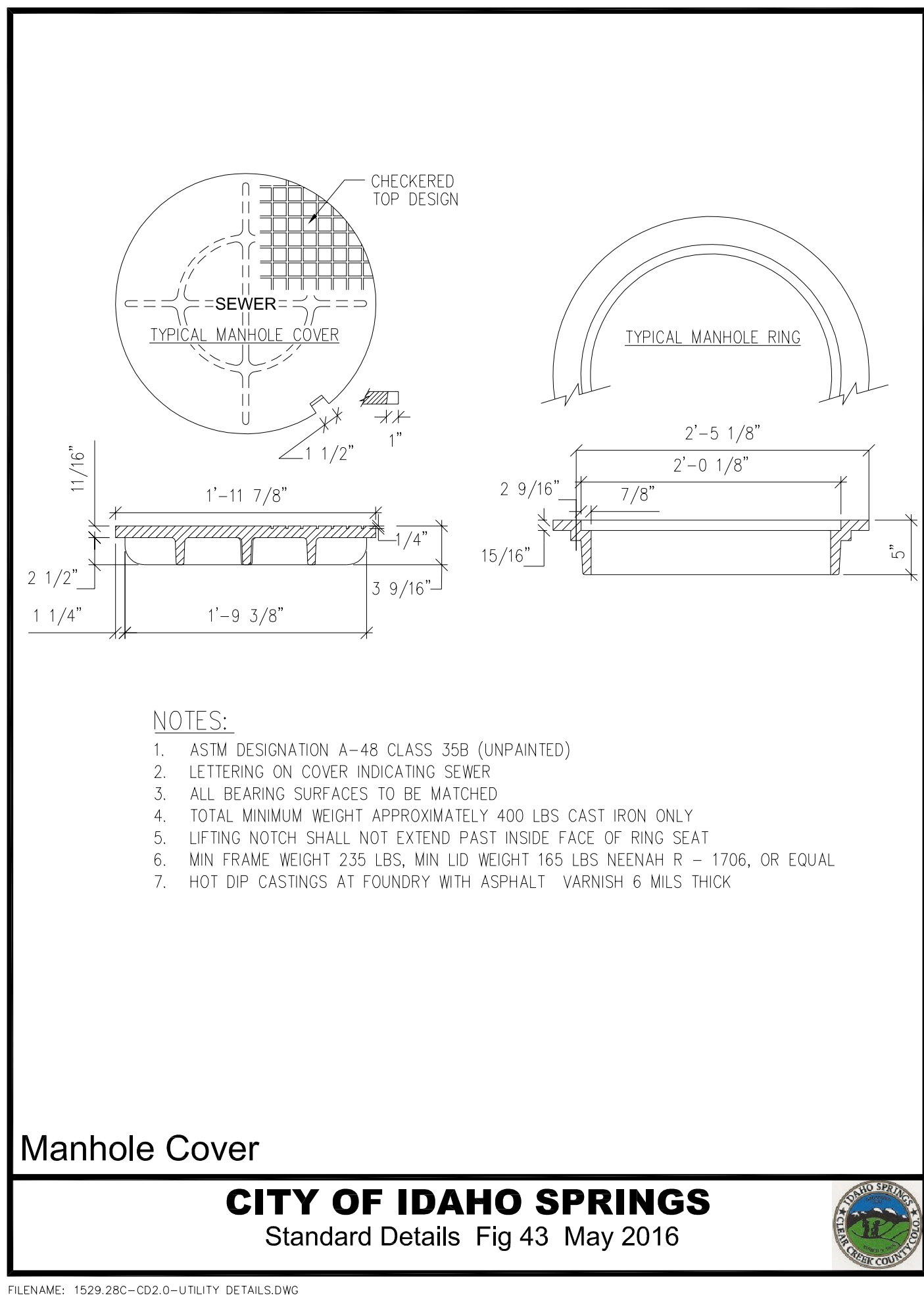
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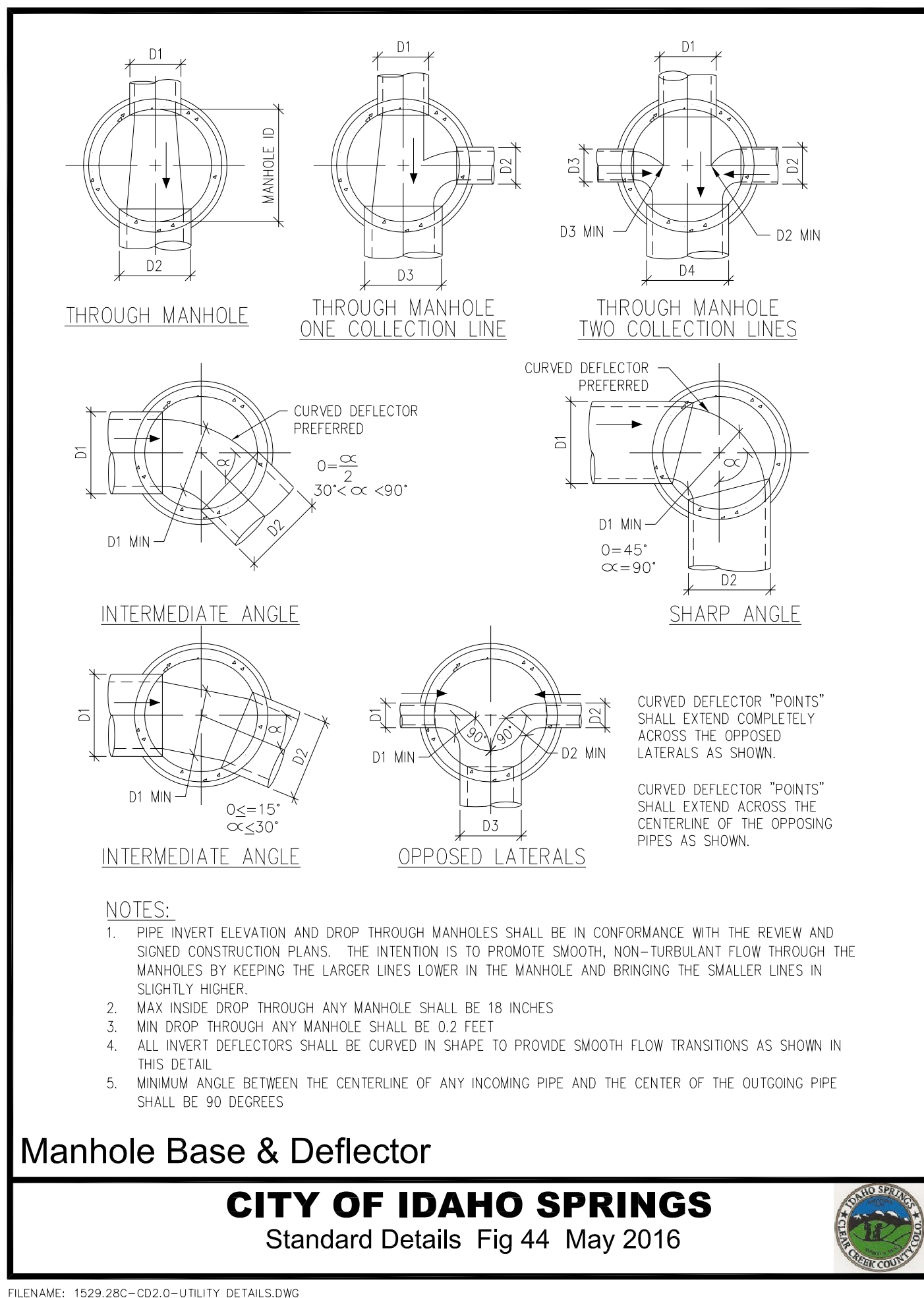
OUTSIDE DROP MANHOLE DETAIL 8
NTS C2.4



PLASTIC MANHOLE STEP DETAIL 7
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MANHOLE COVER DETAIL 6
NTS C2.4



MANHOLE BASE AND DEFLECTOR DETAIL 5
NTS



REVISION DESCRIPTION

NO. DATE DESD DWN

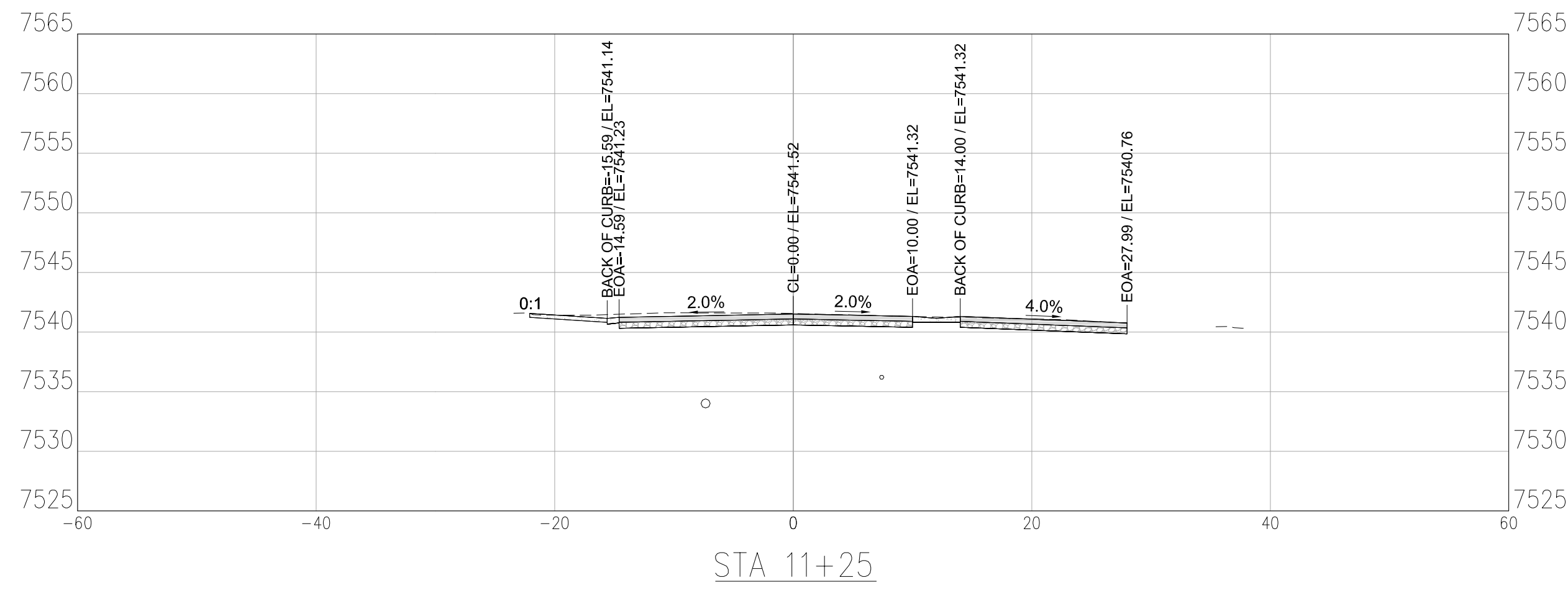
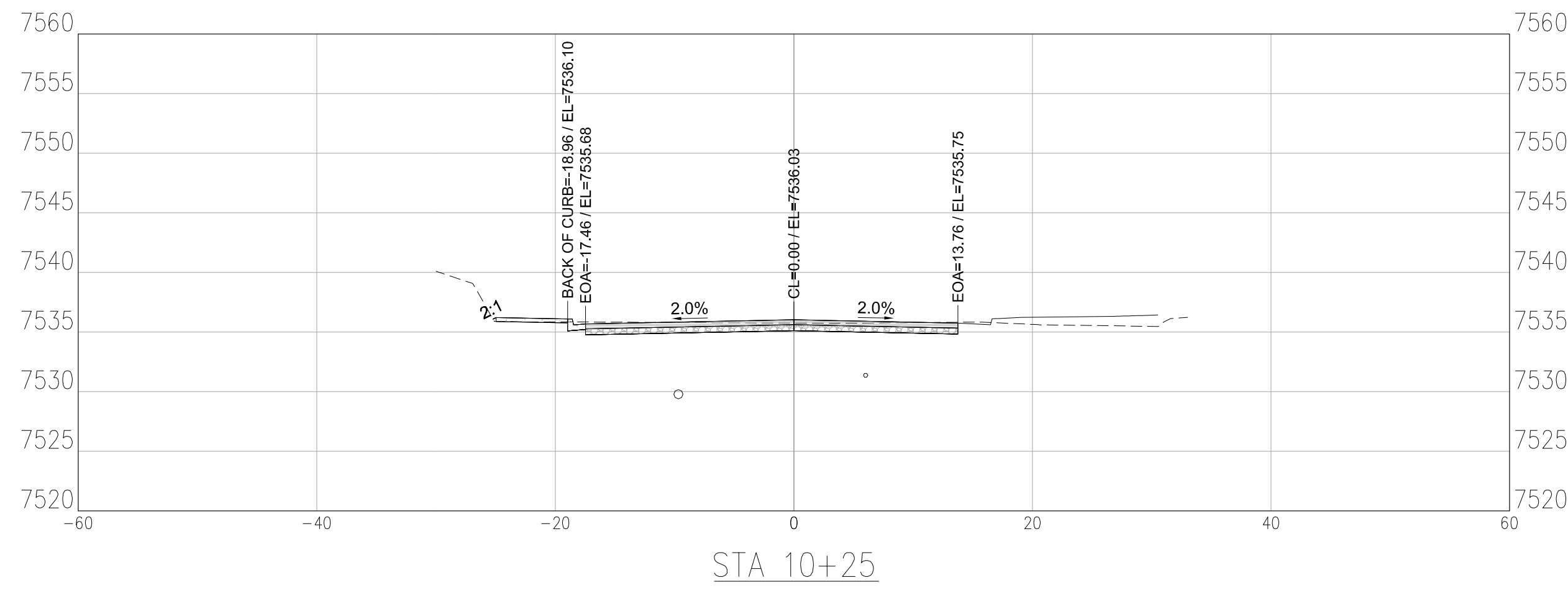
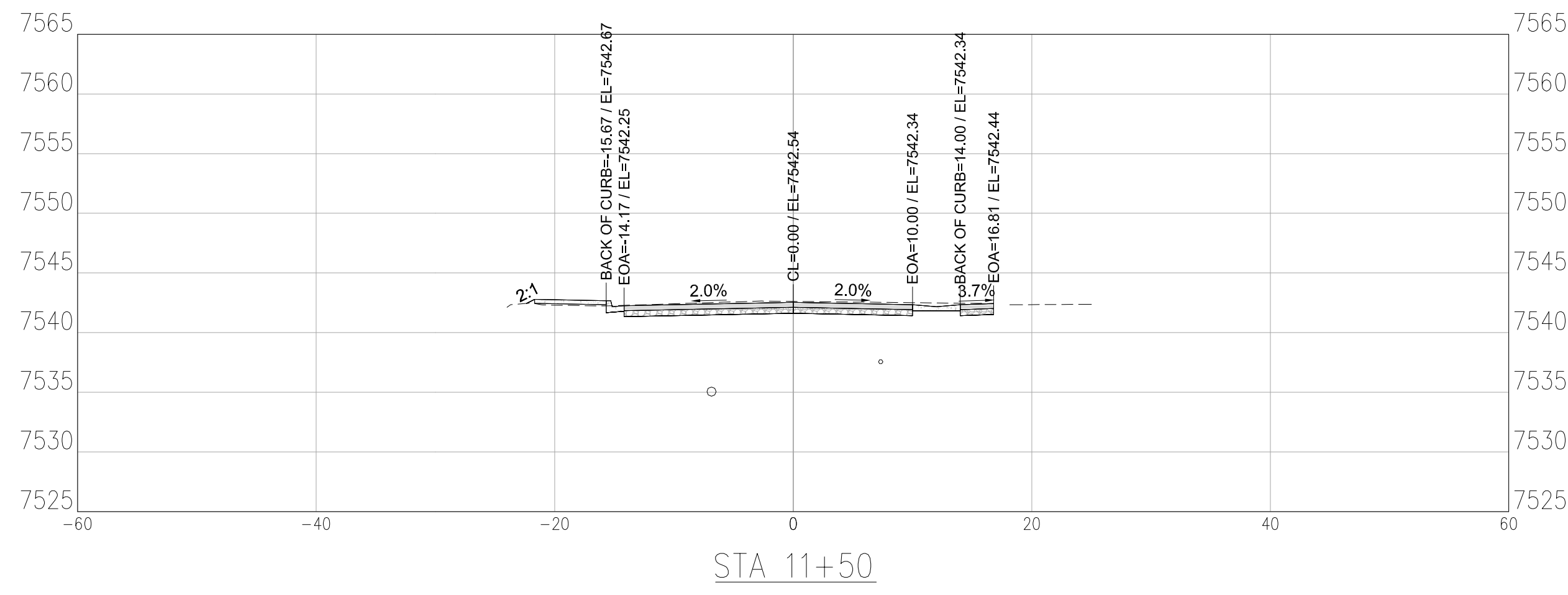
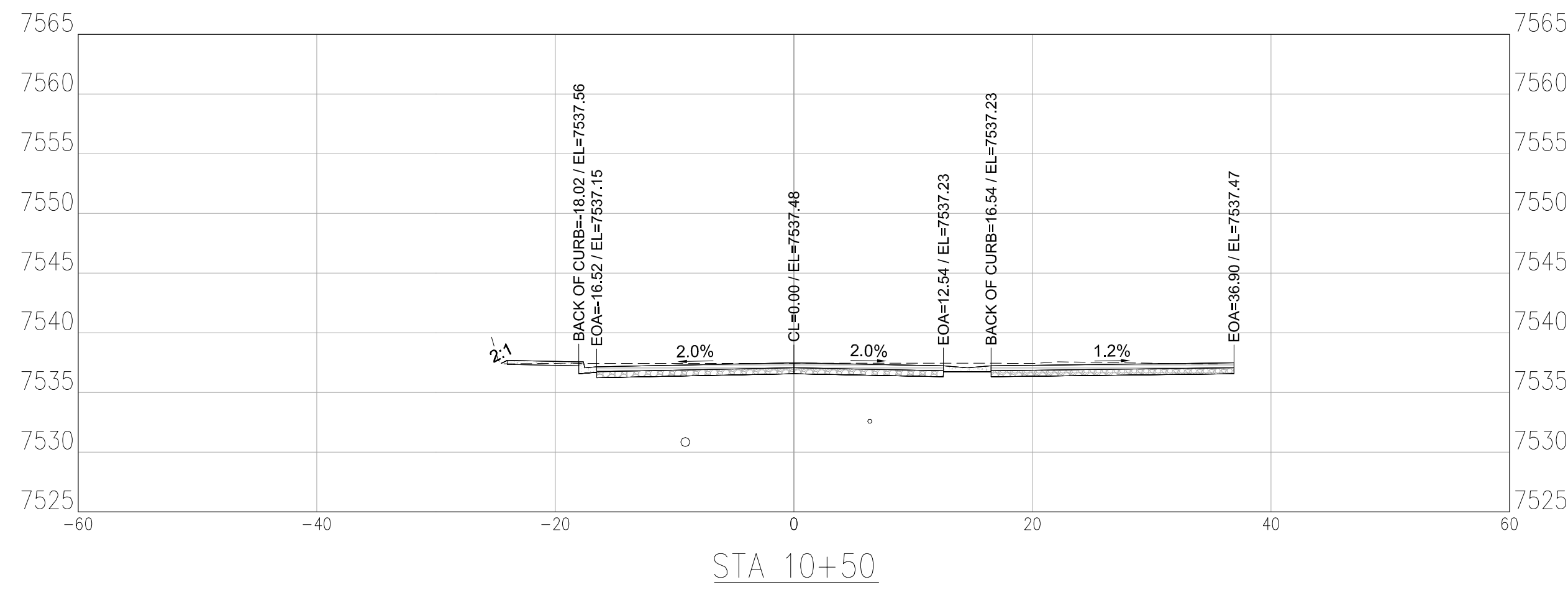
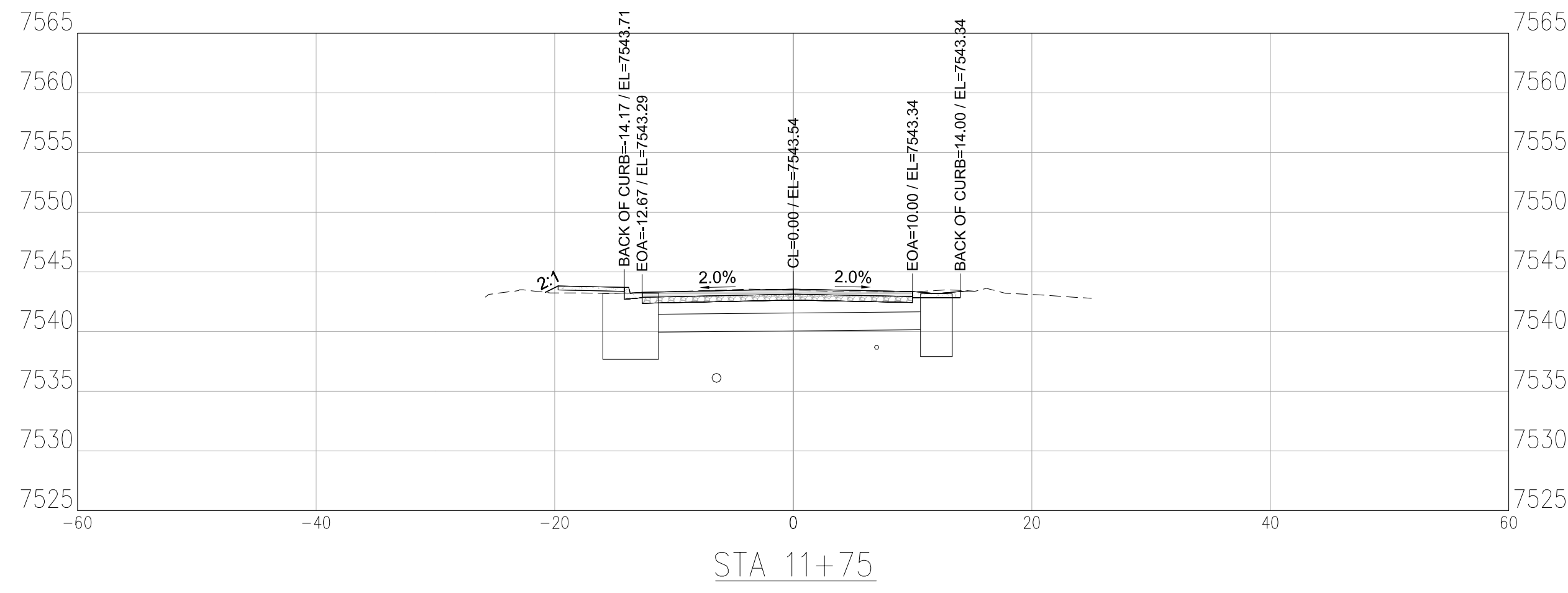
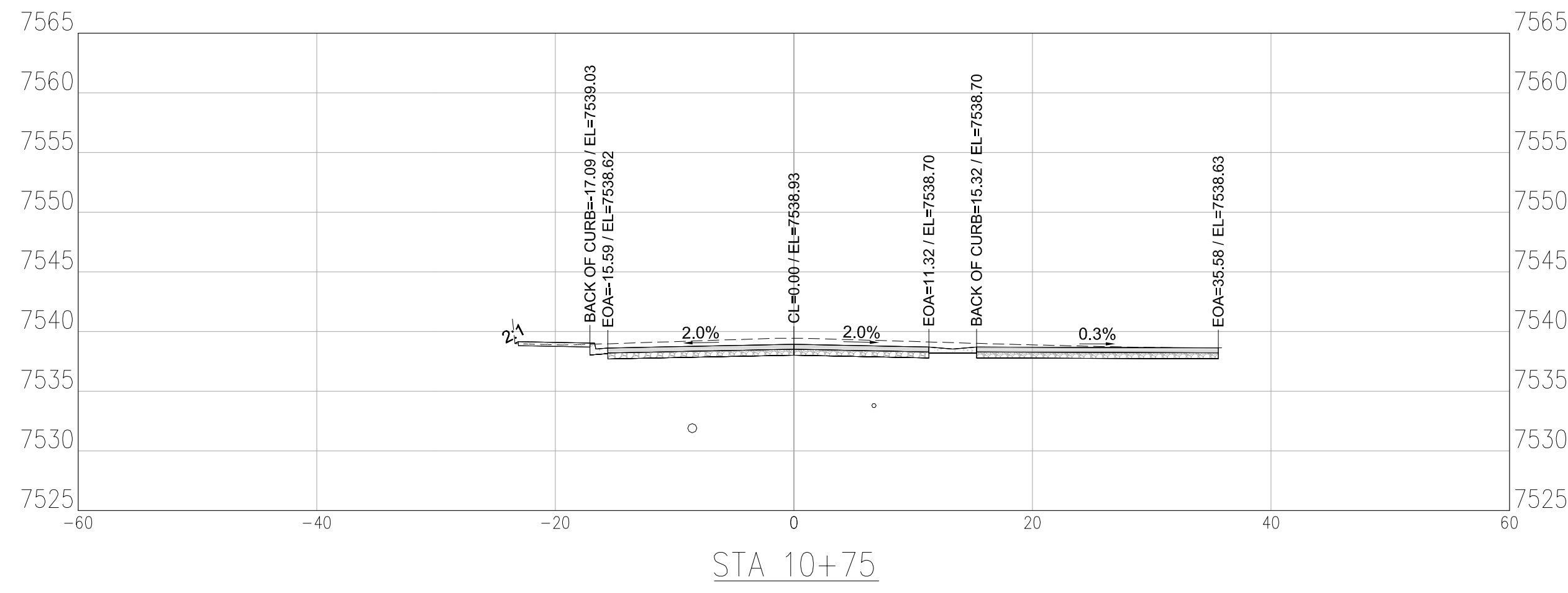
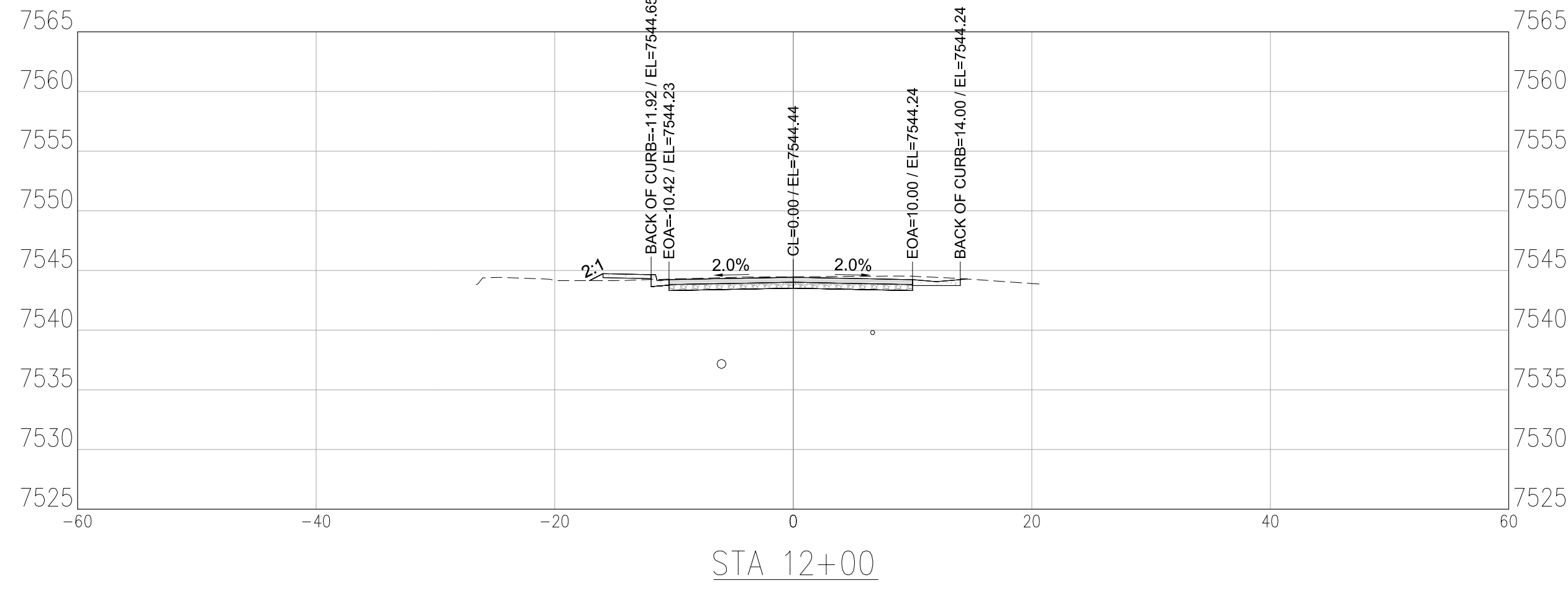
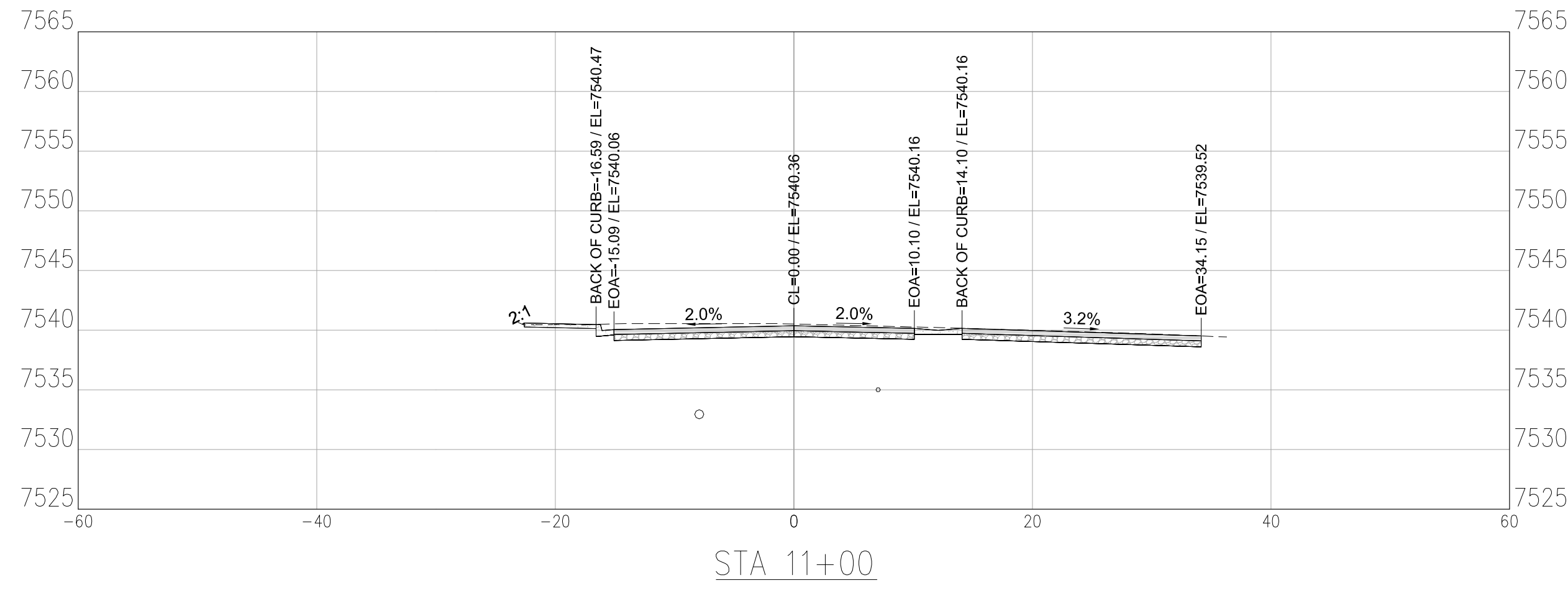


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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.
ROADWAY CROSS SECTIONS

SHEET NO.

C3.0

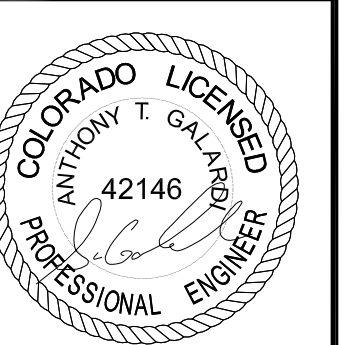




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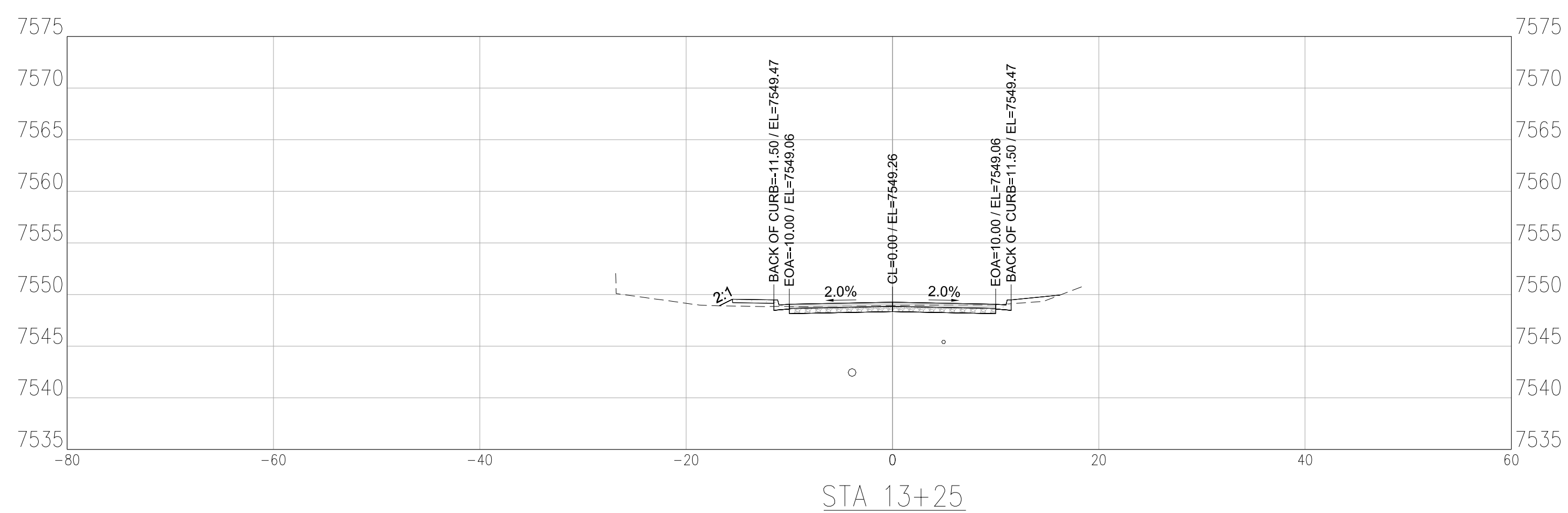
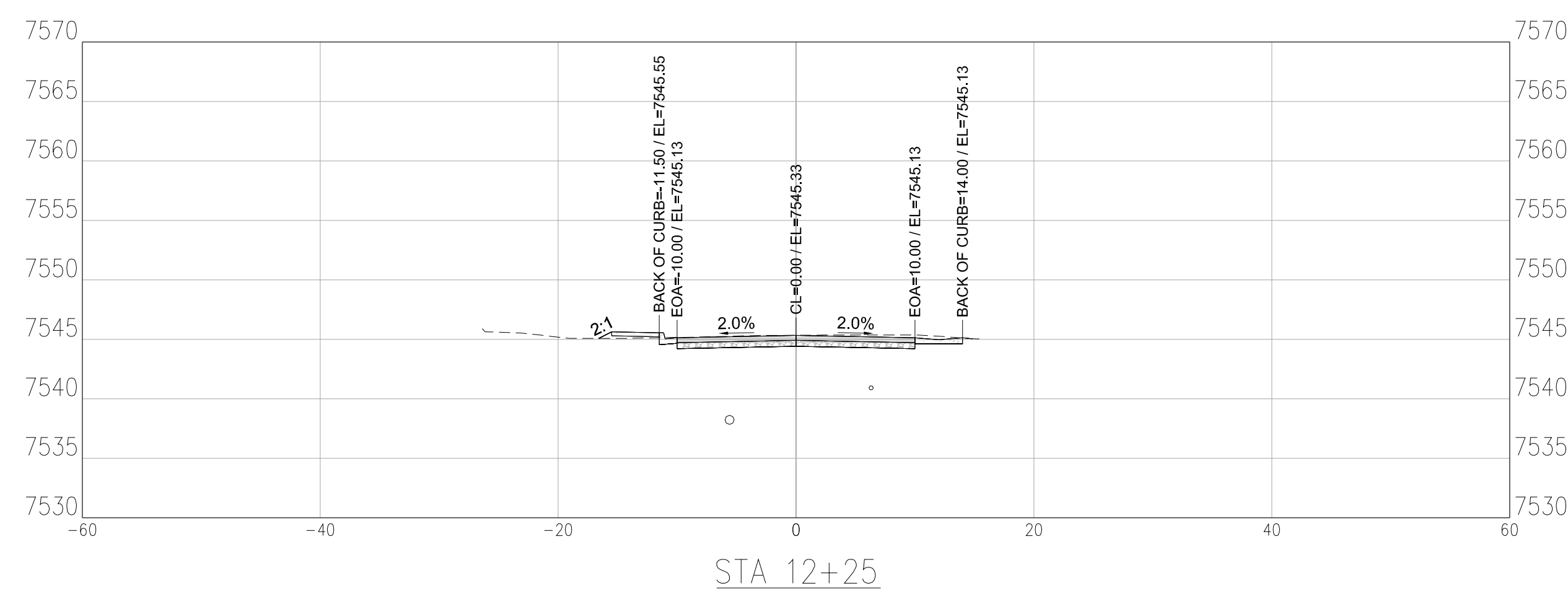
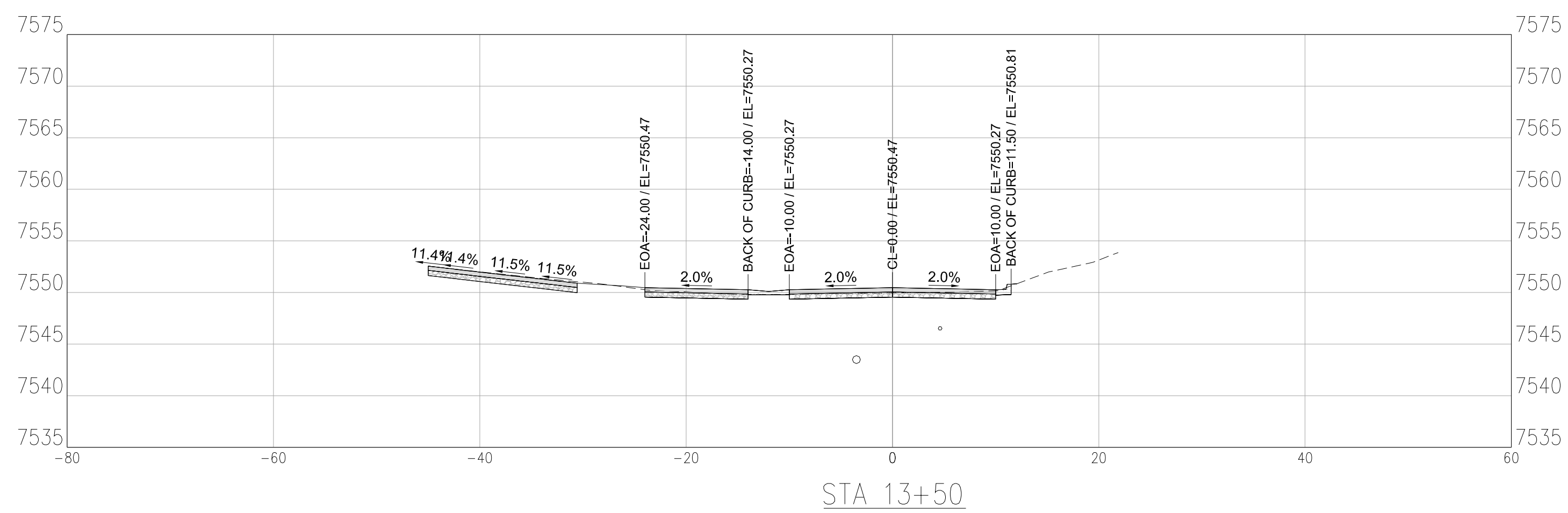
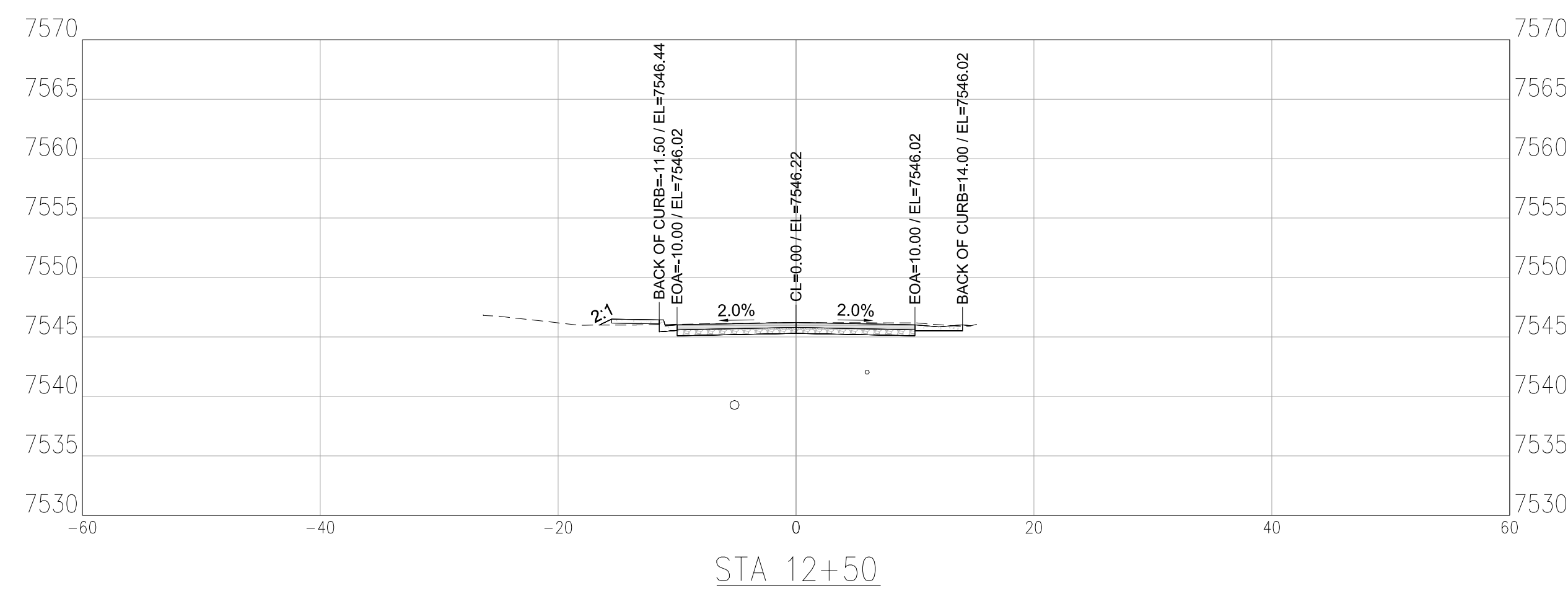
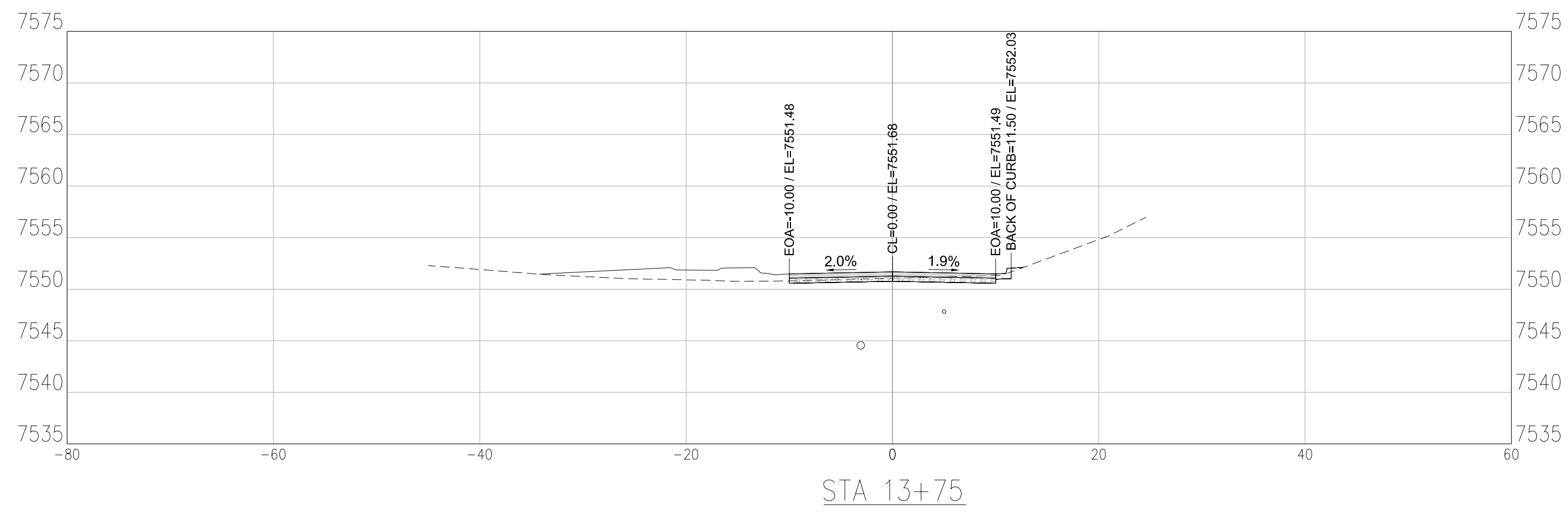
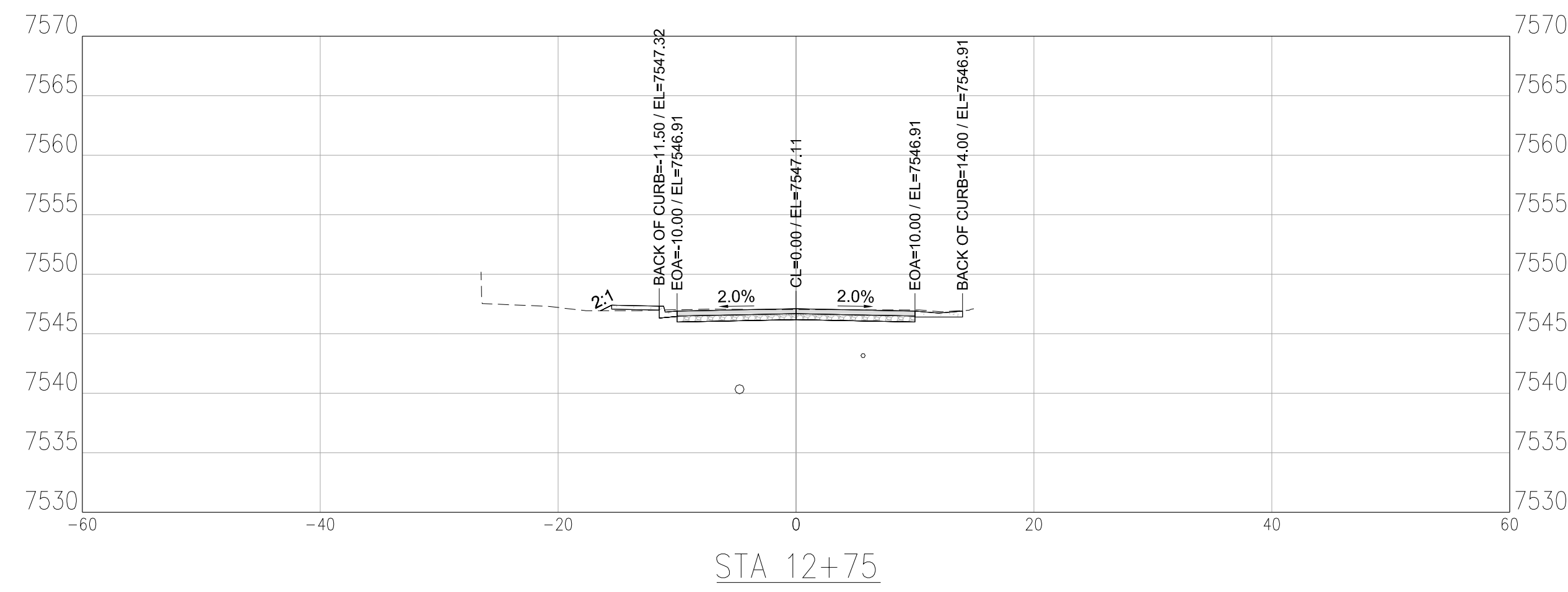
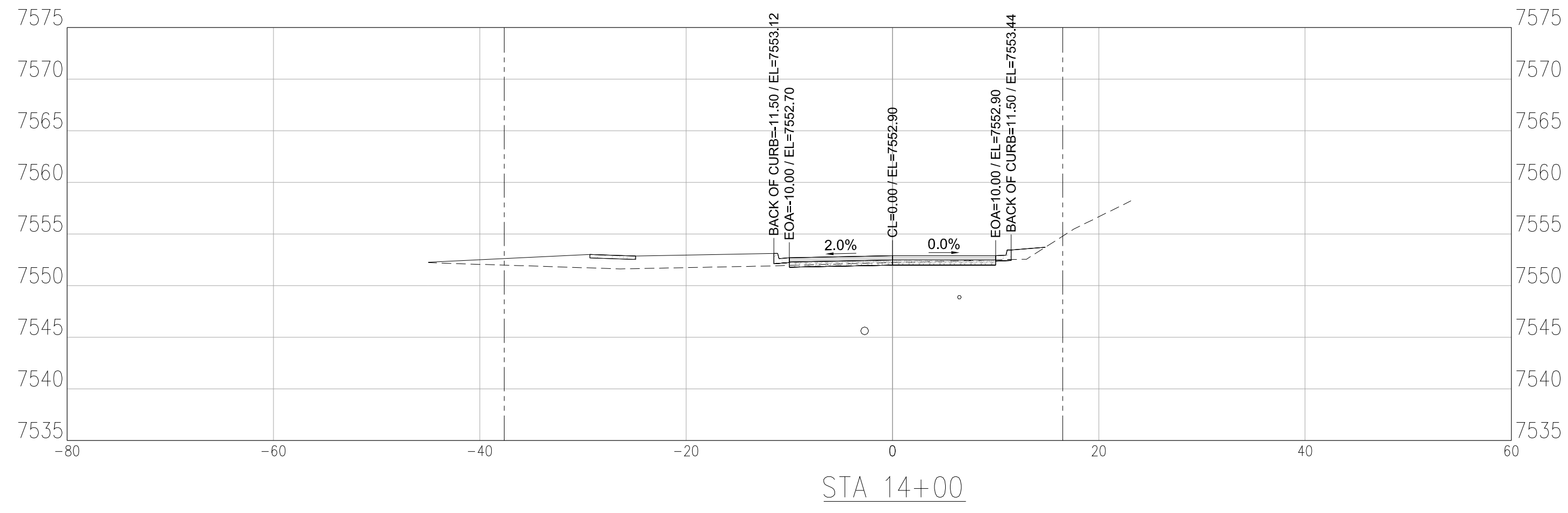
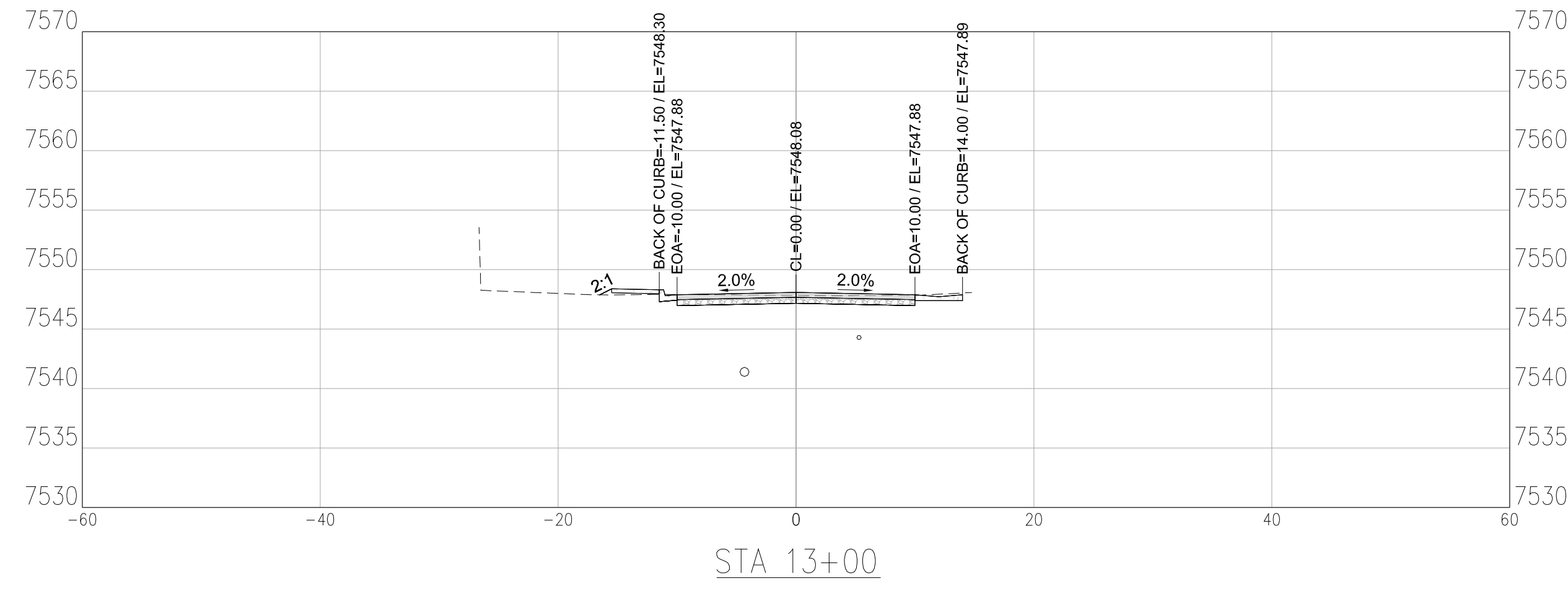
NO.	DATE	DESIGNED	DRAWN	DESCRIPTION



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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

SHEET NO.
C3.1





NO.	DATE	DESIGNED	DESCRIPTION
		DWN	

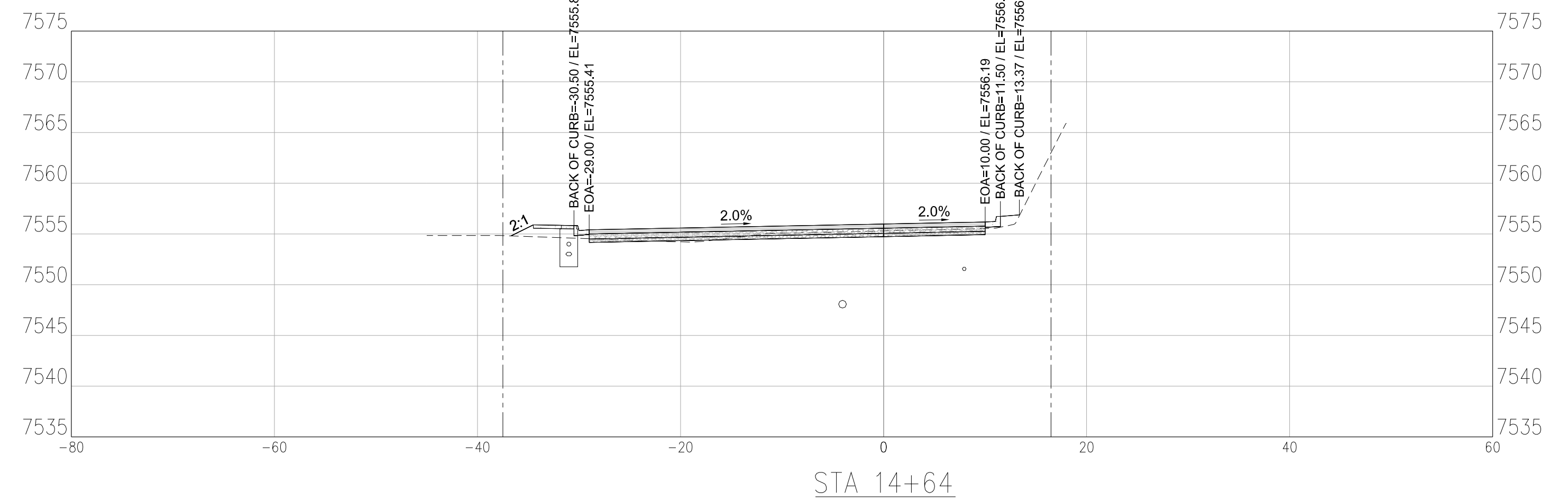
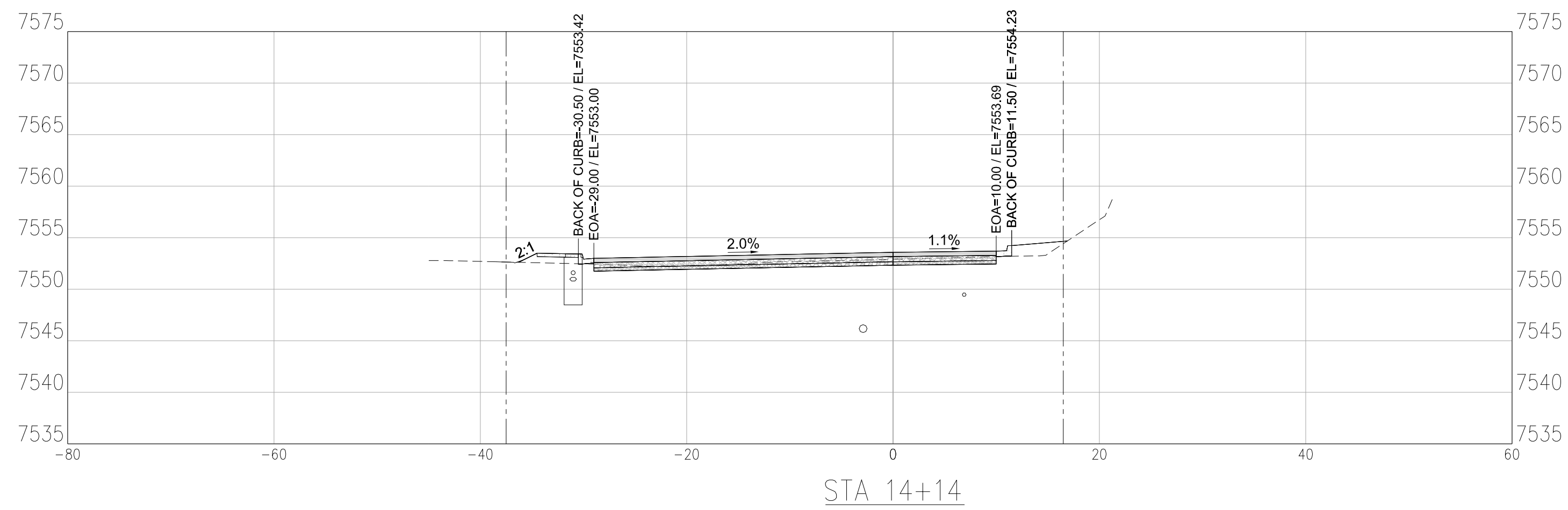
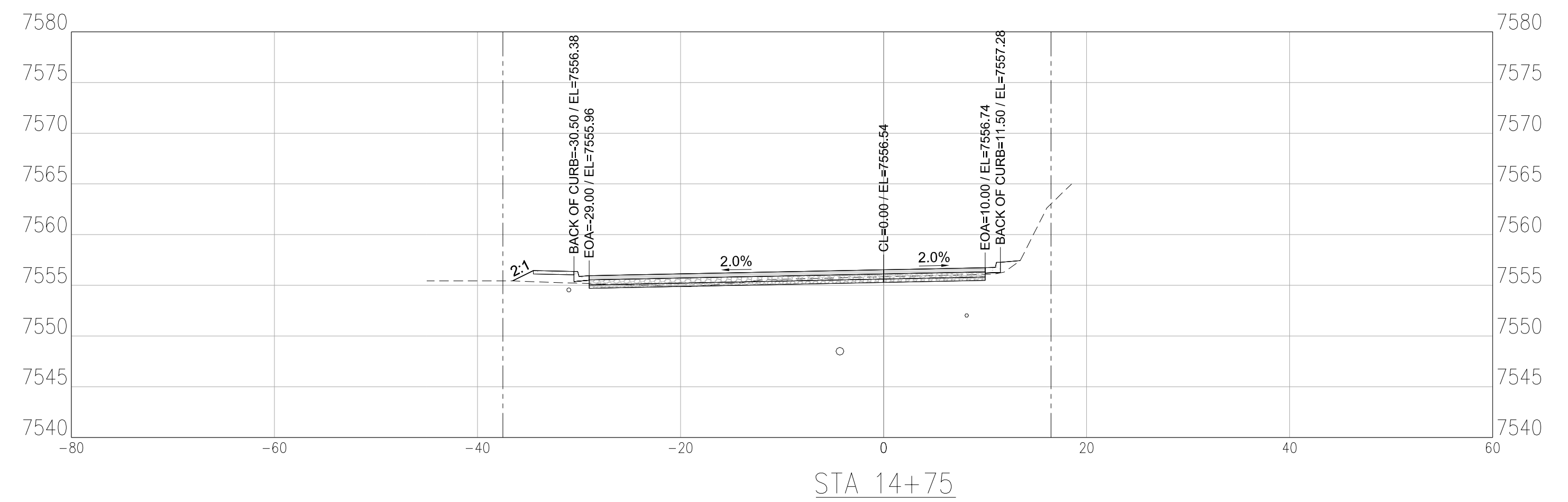
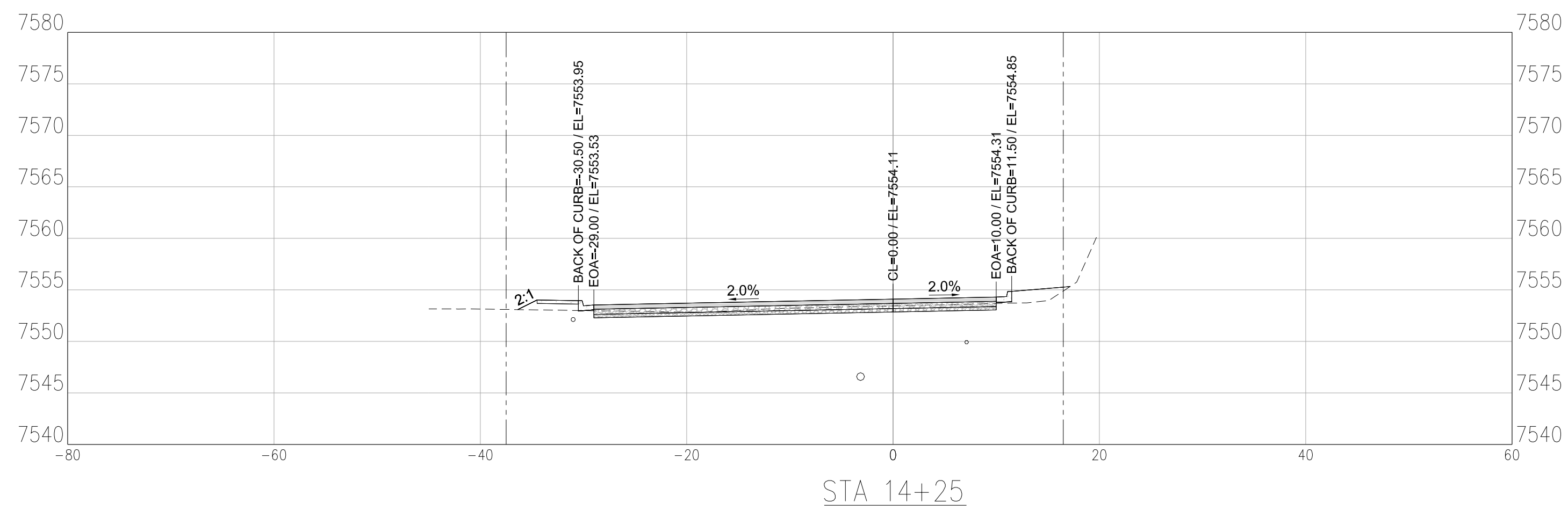
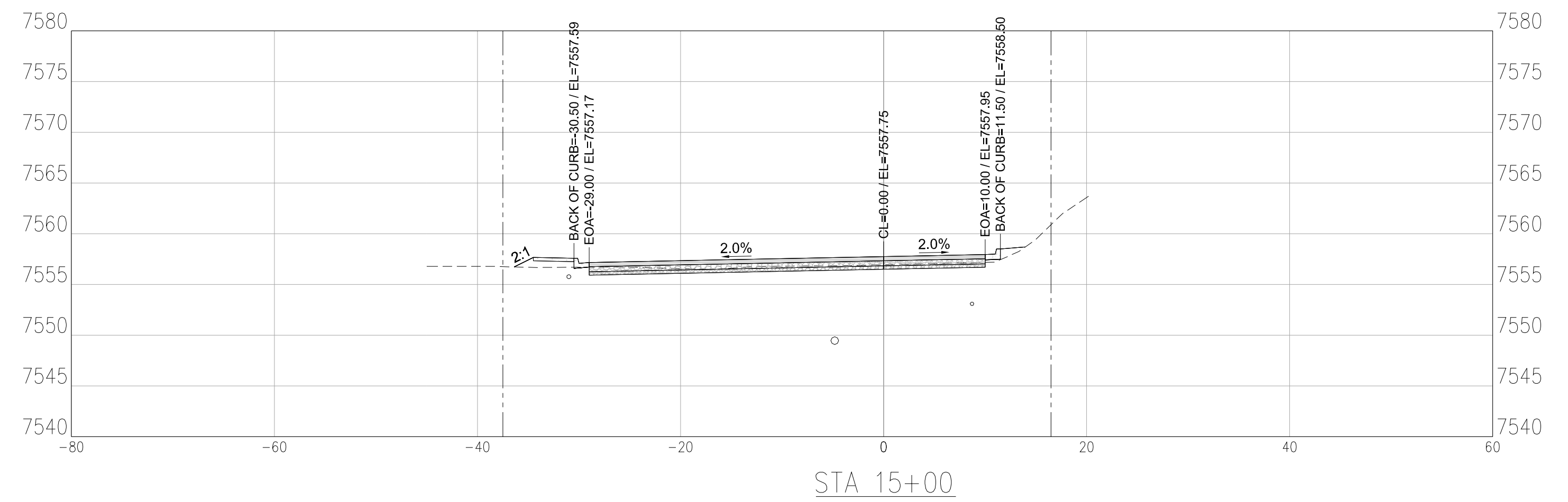
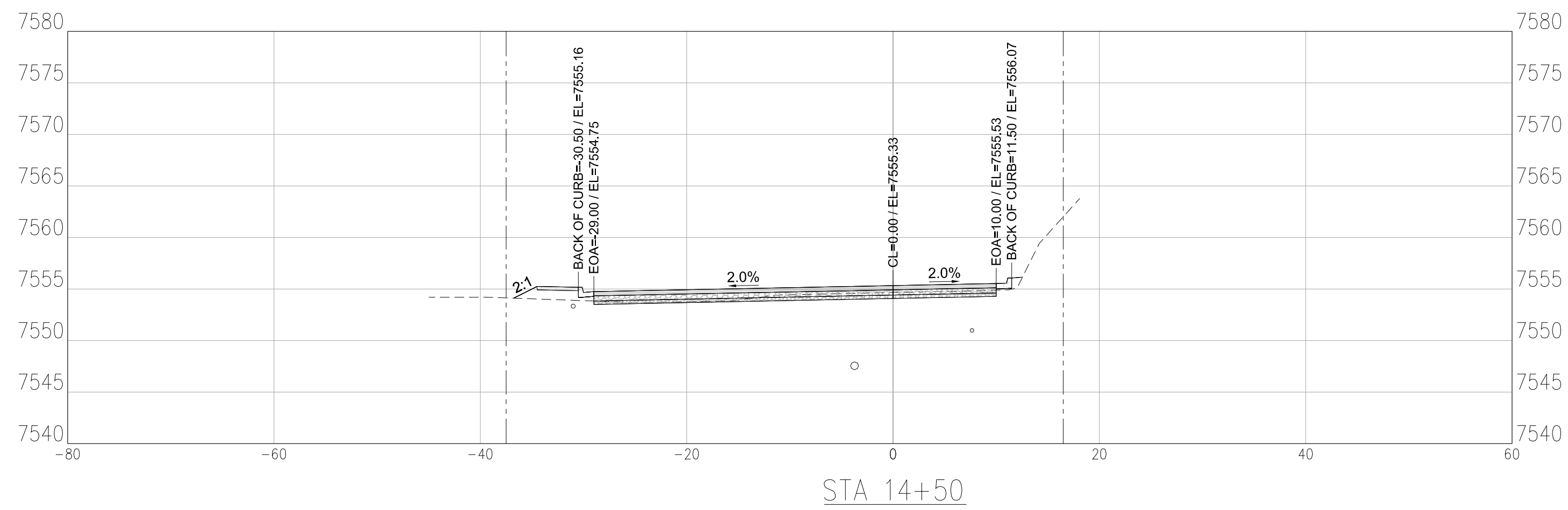


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SODA CREEK ROAD IMPROVEMENTS
0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

ROADWAY CROSS SECTIONS

SHEET NO.
C3.2

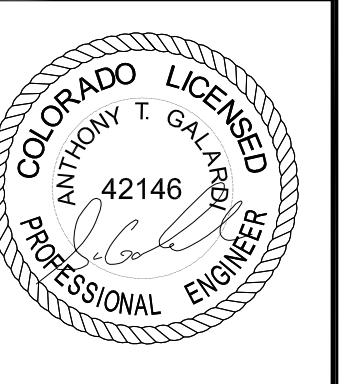




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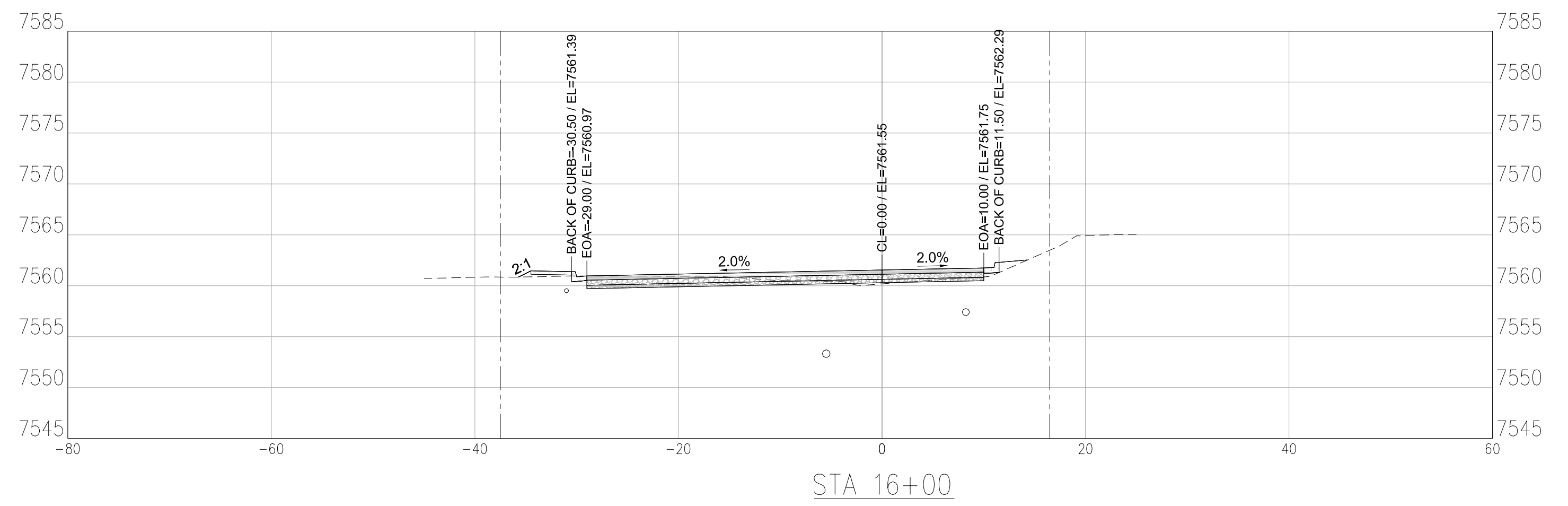
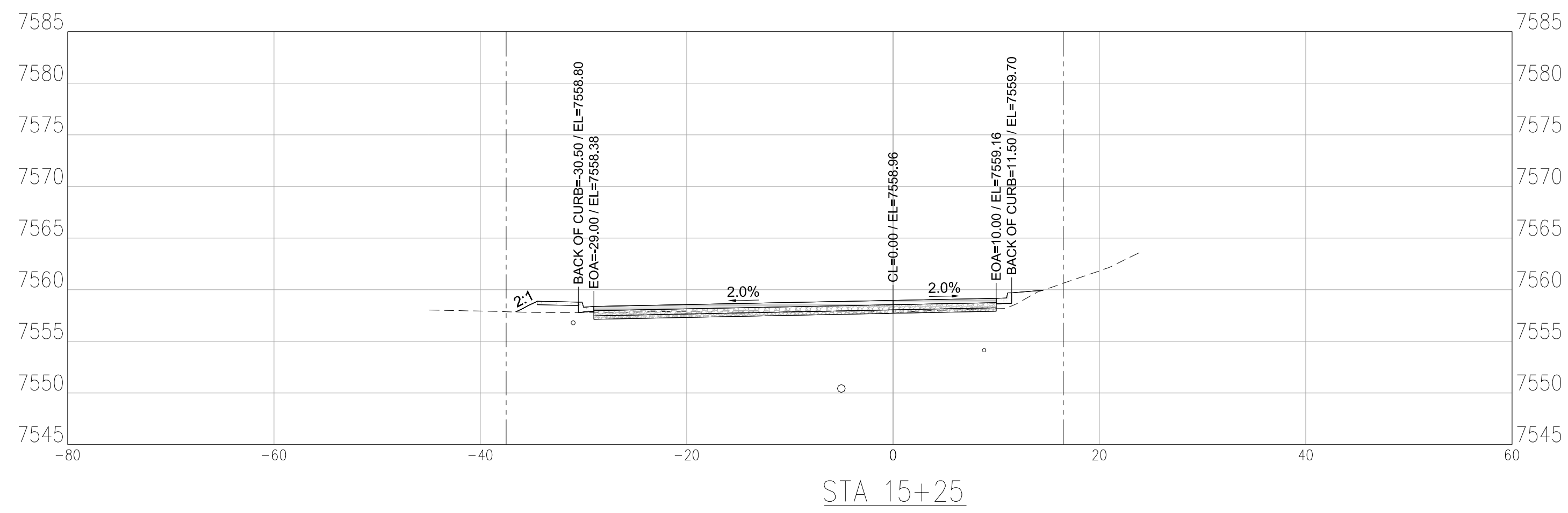
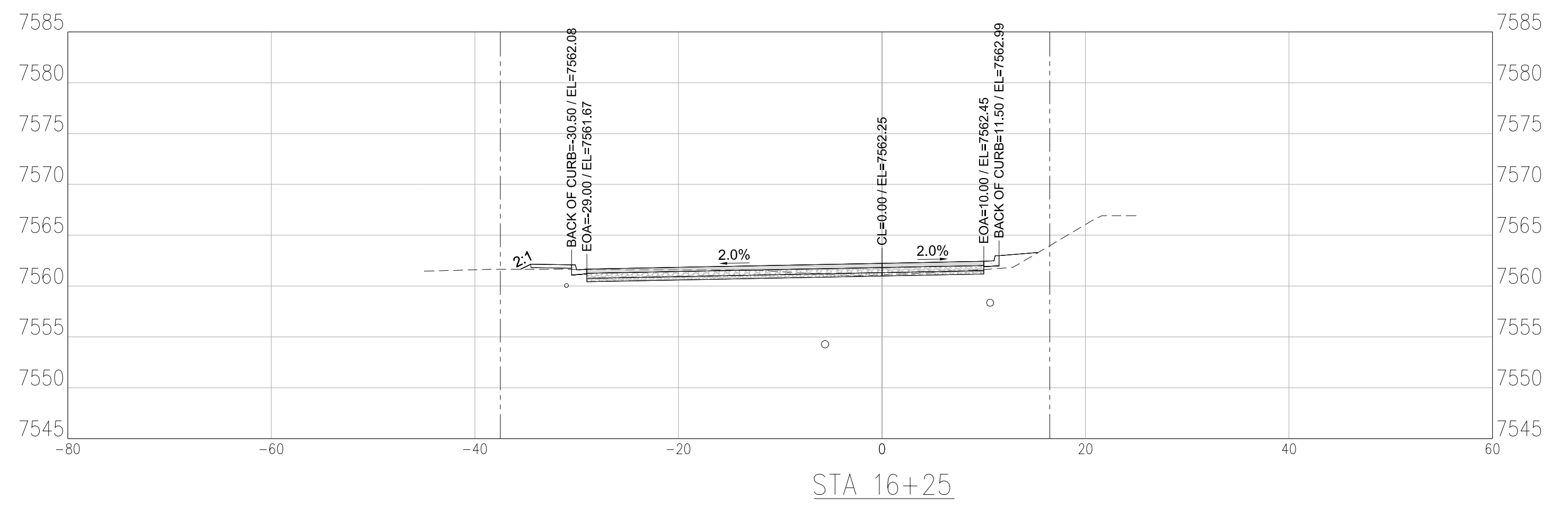
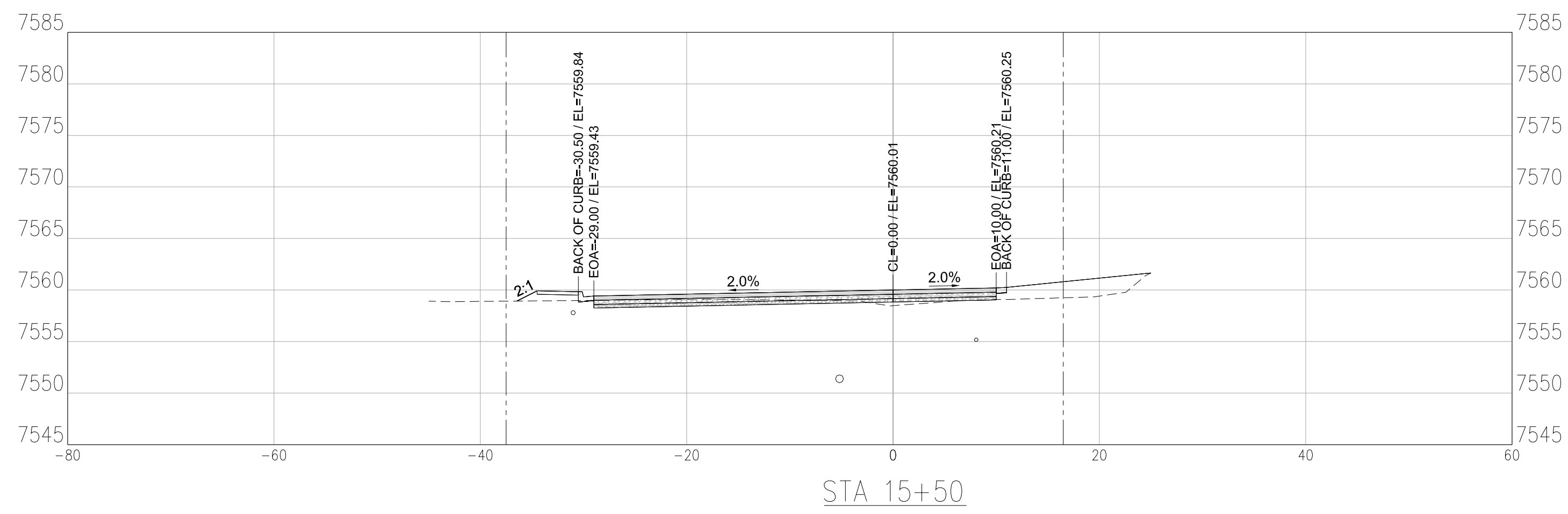
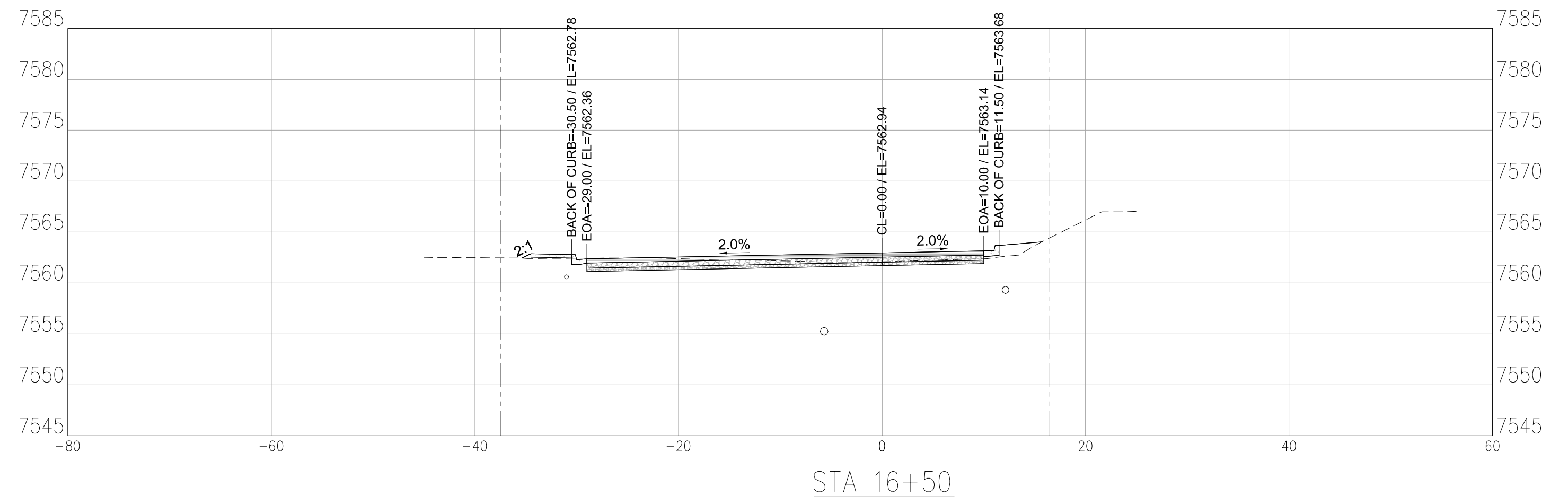
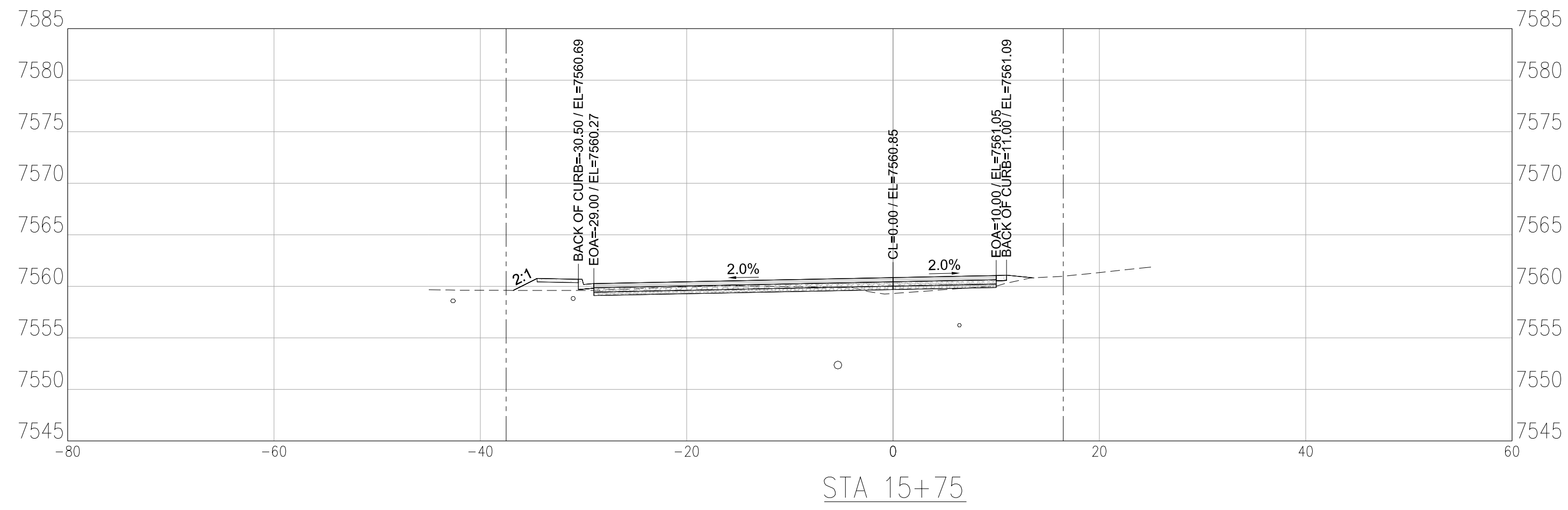
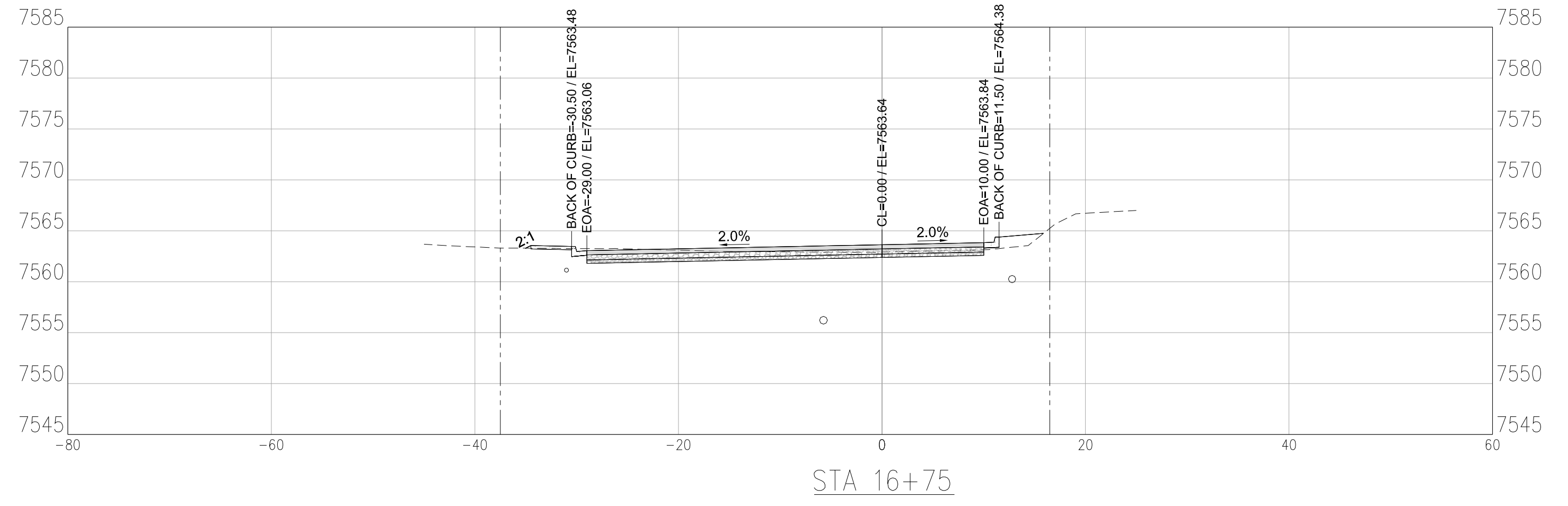
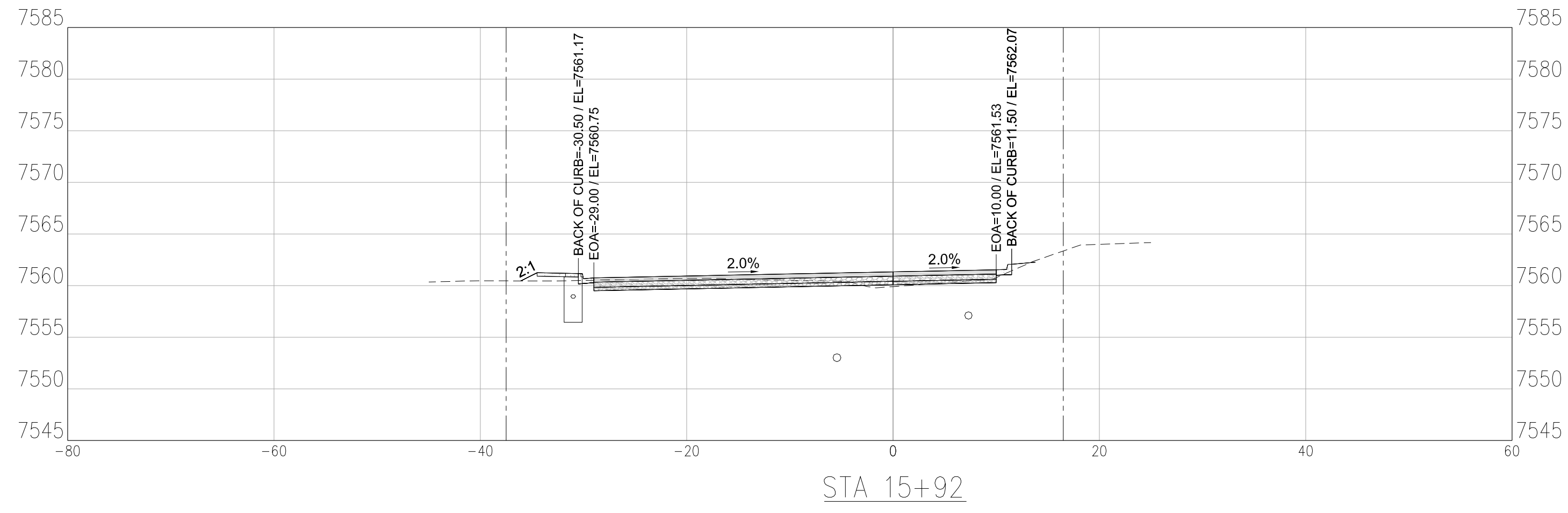
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SHEET NO.
C3.3



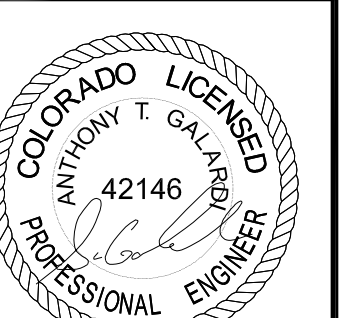
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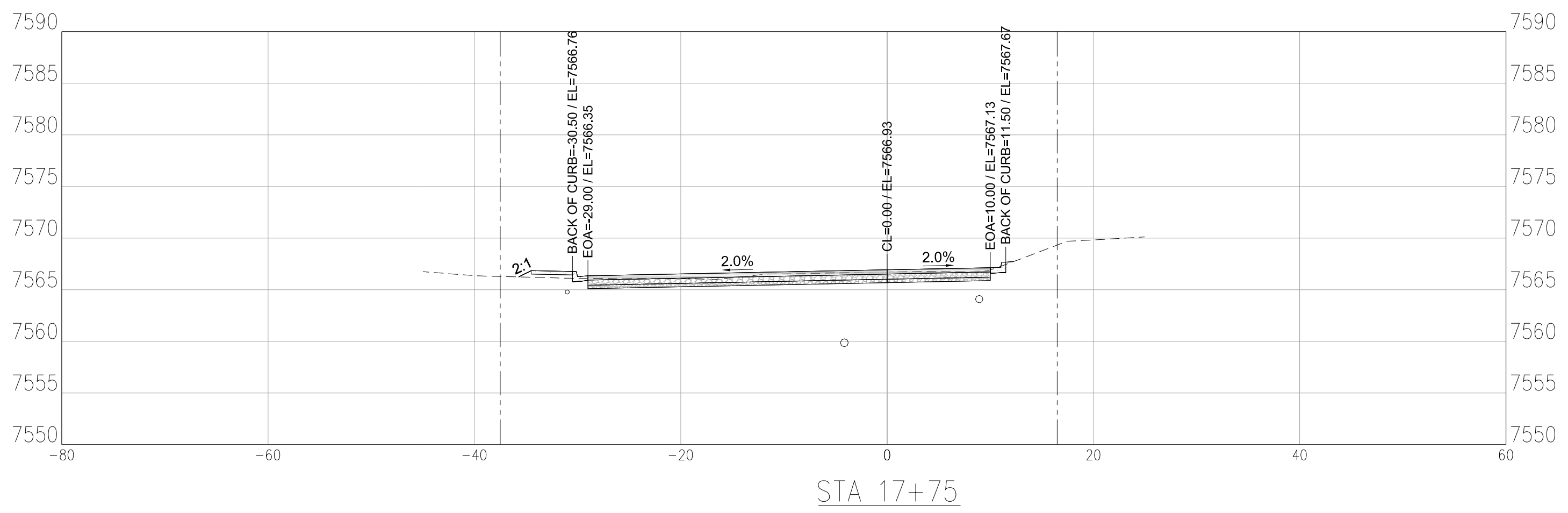
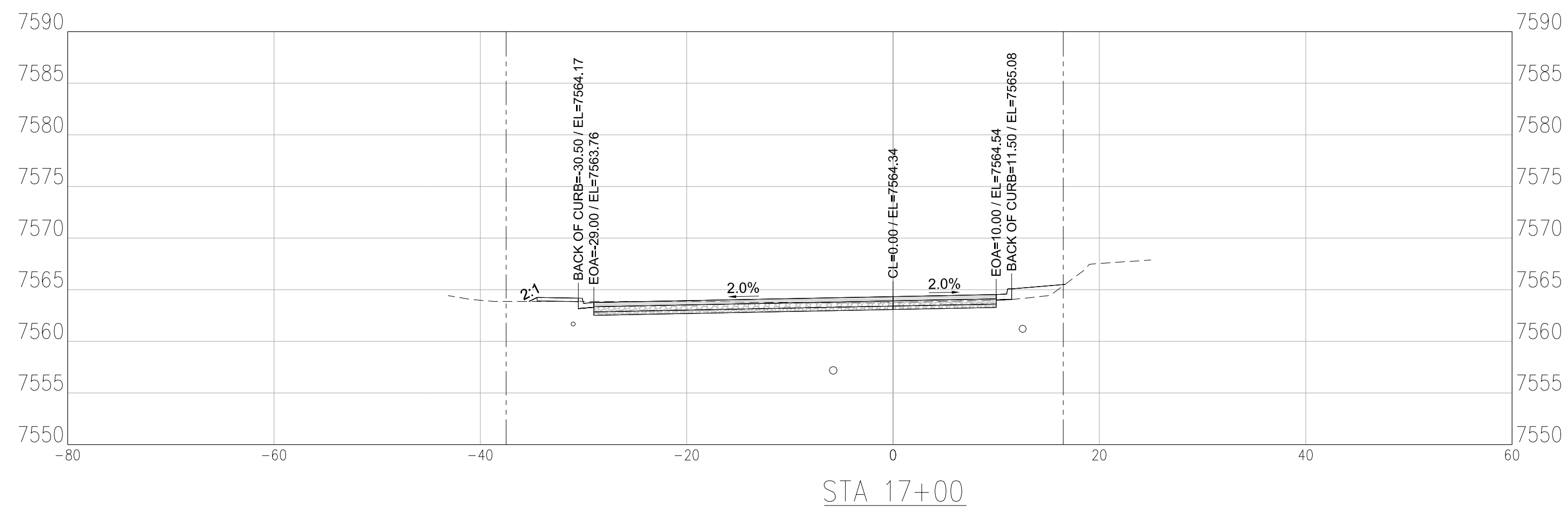
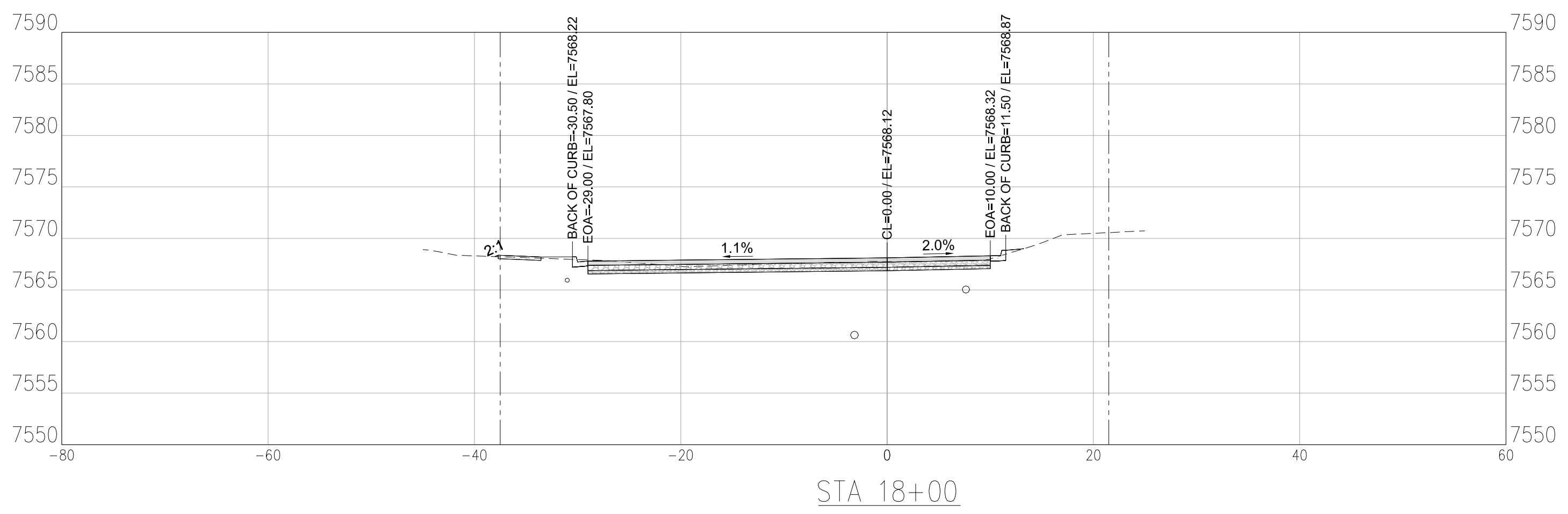
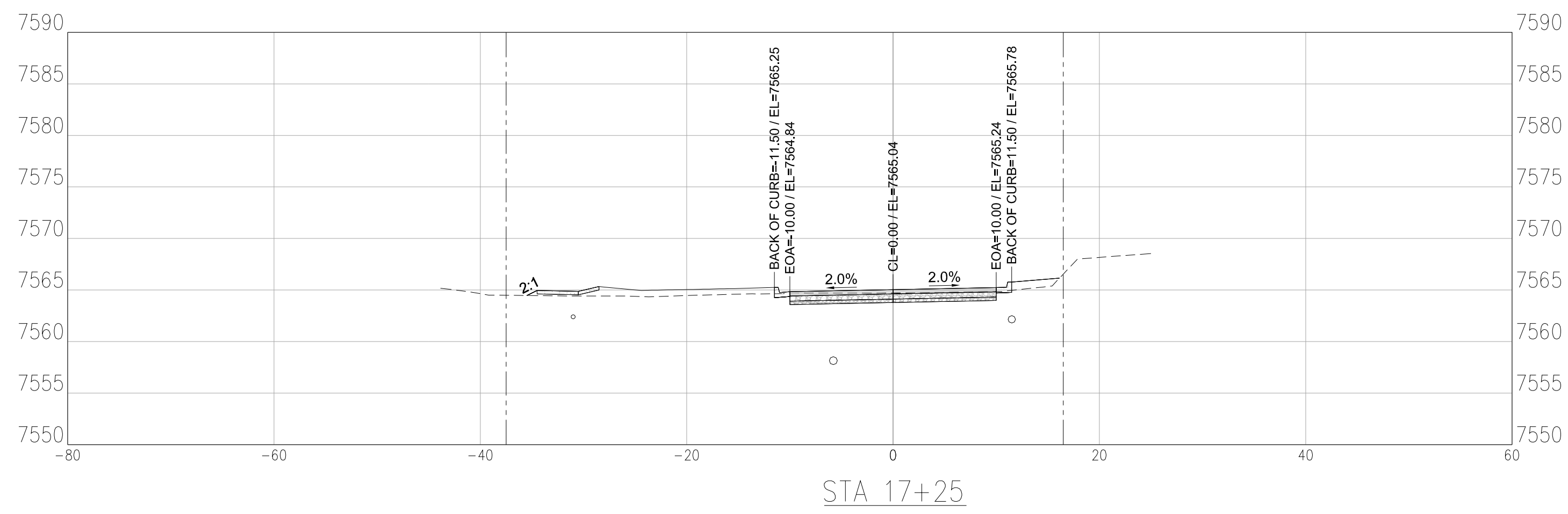
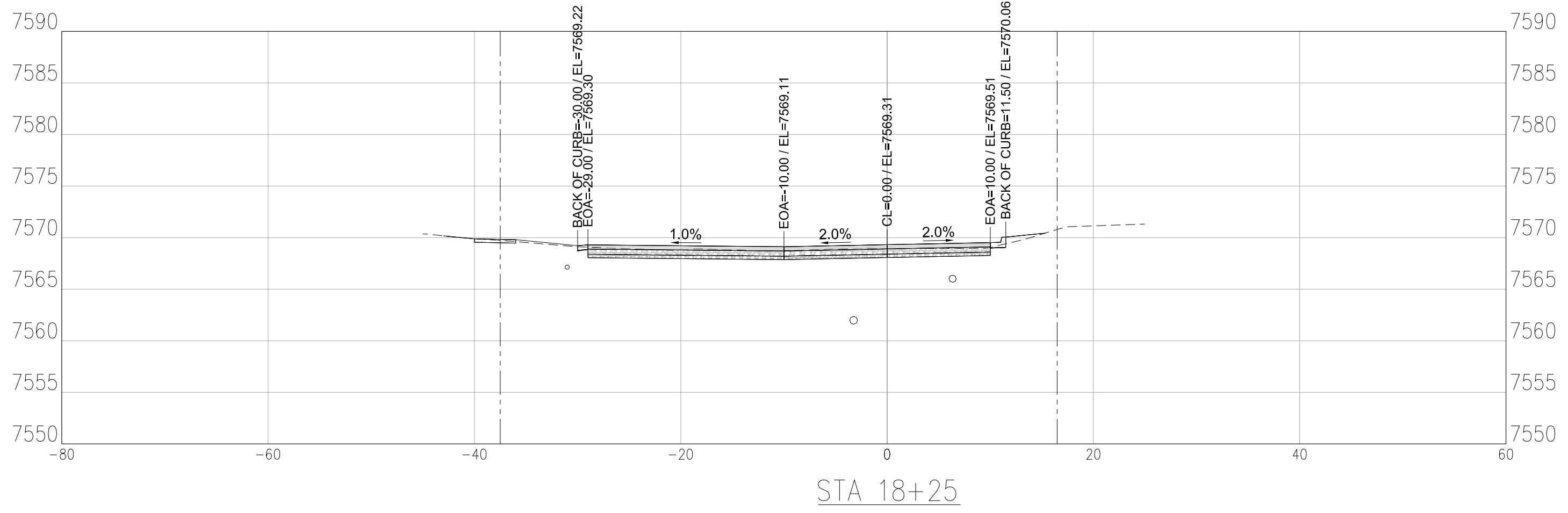
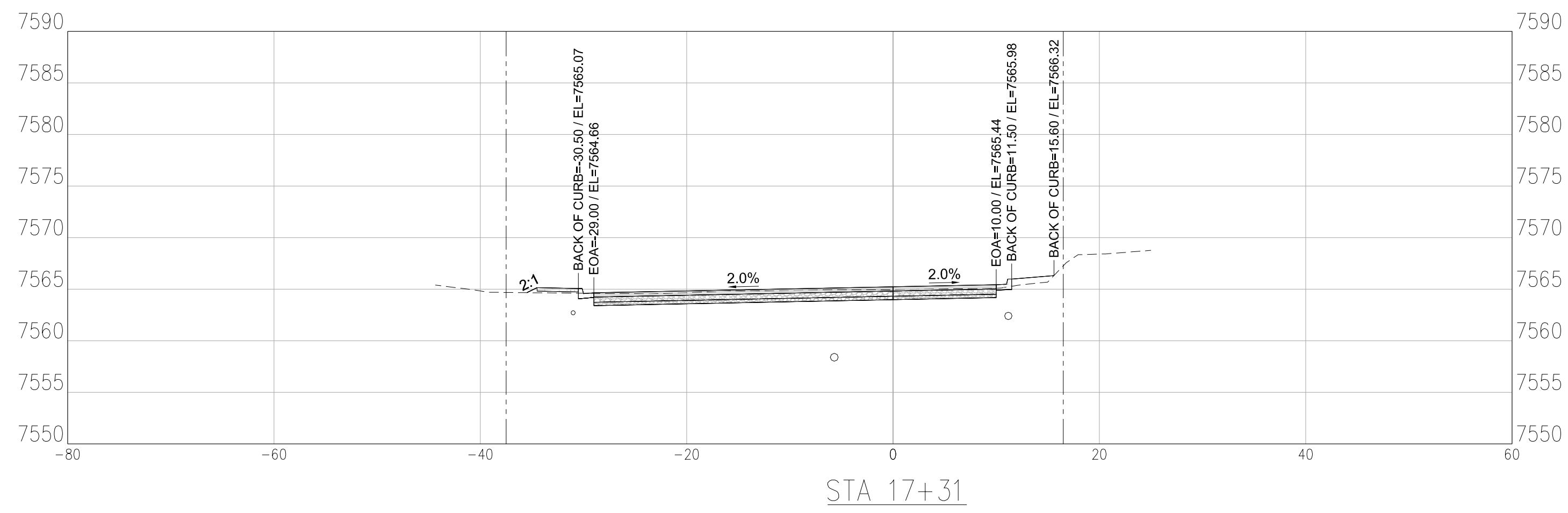
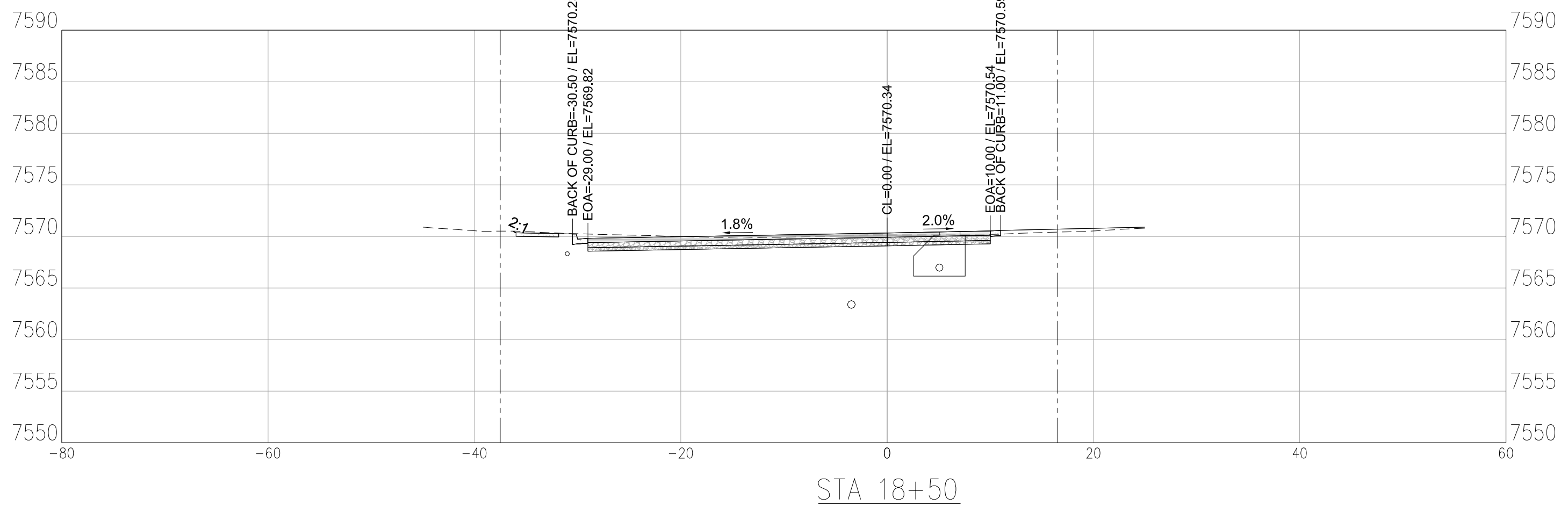
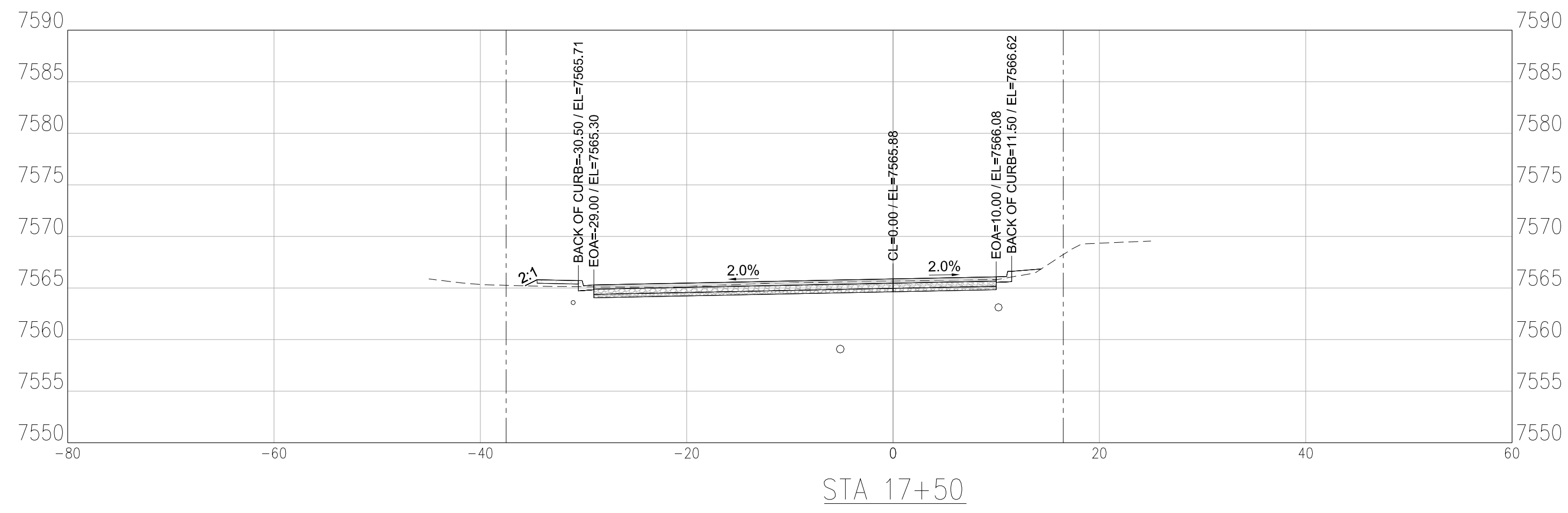


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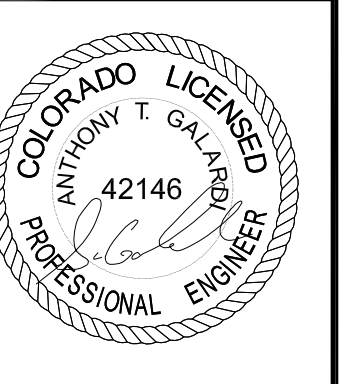
ROADWAY CROSS SECTIONS

SHEET NO.
C3.4





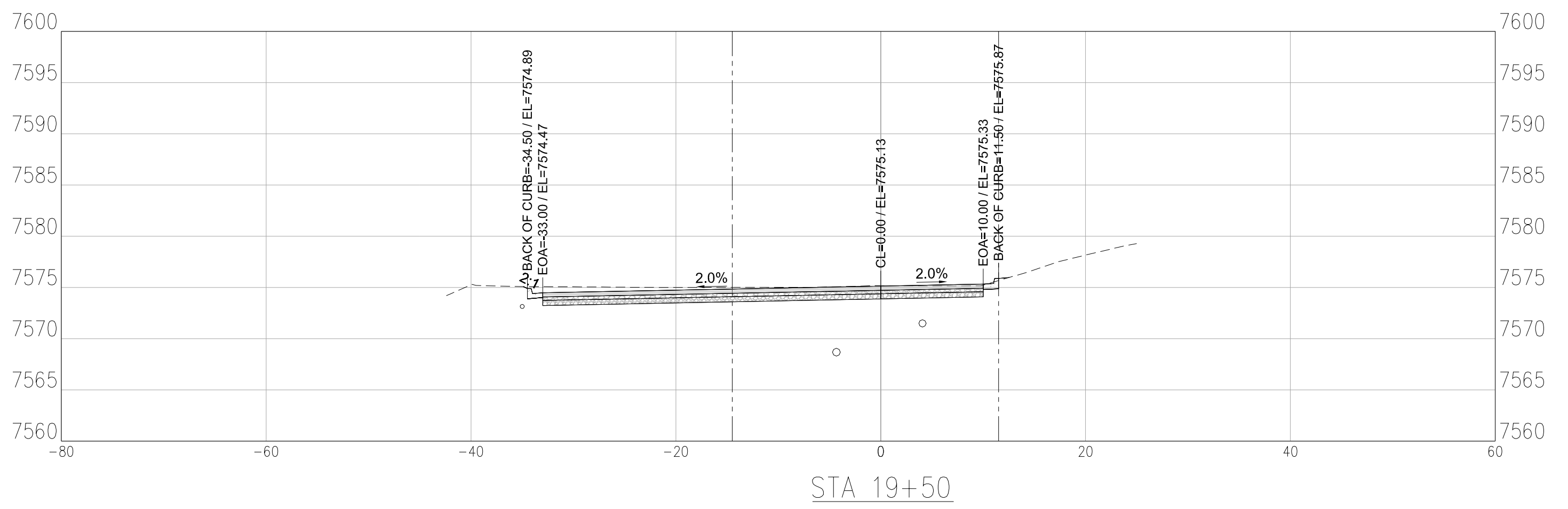
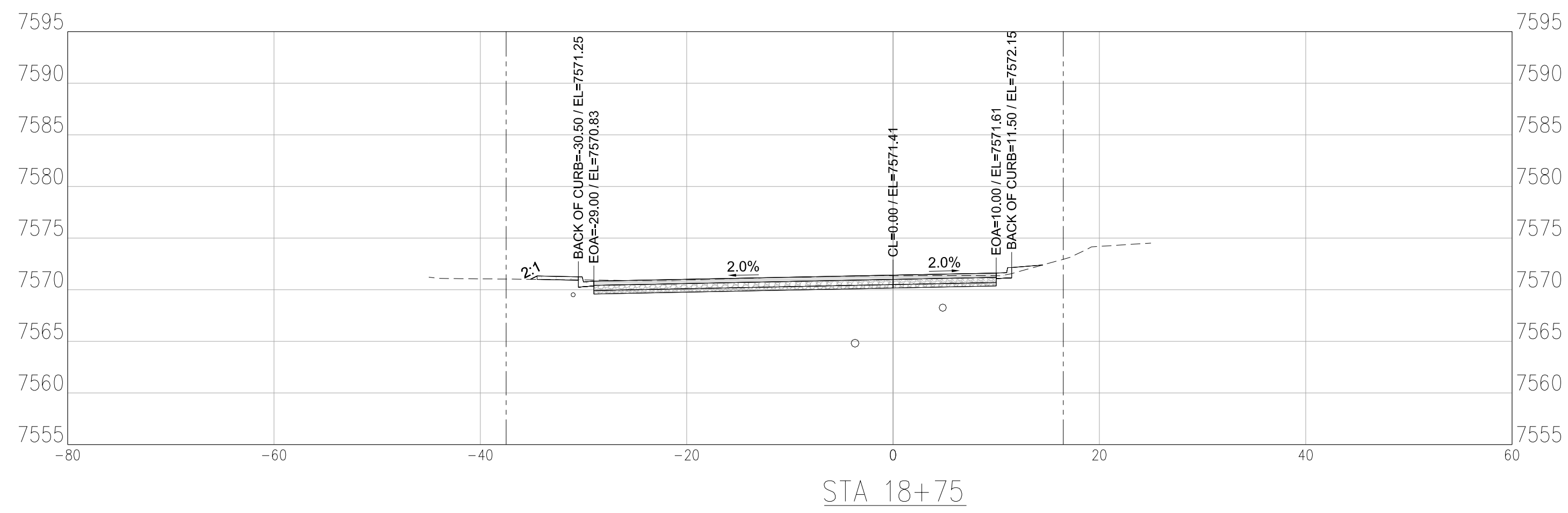
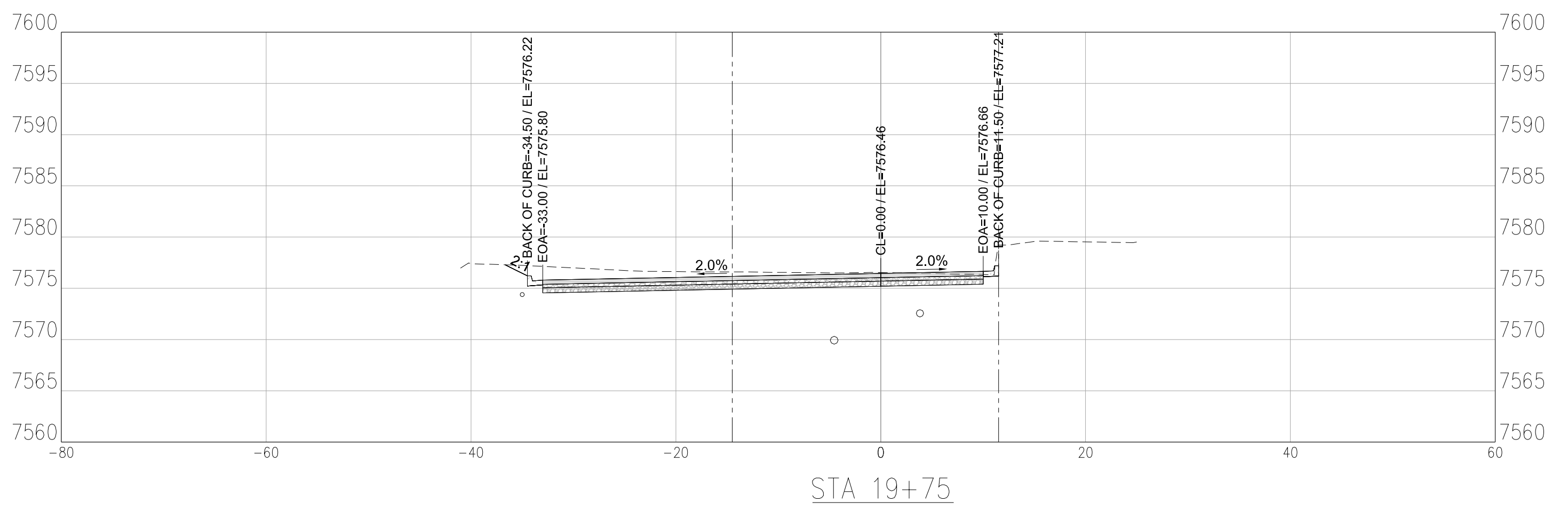
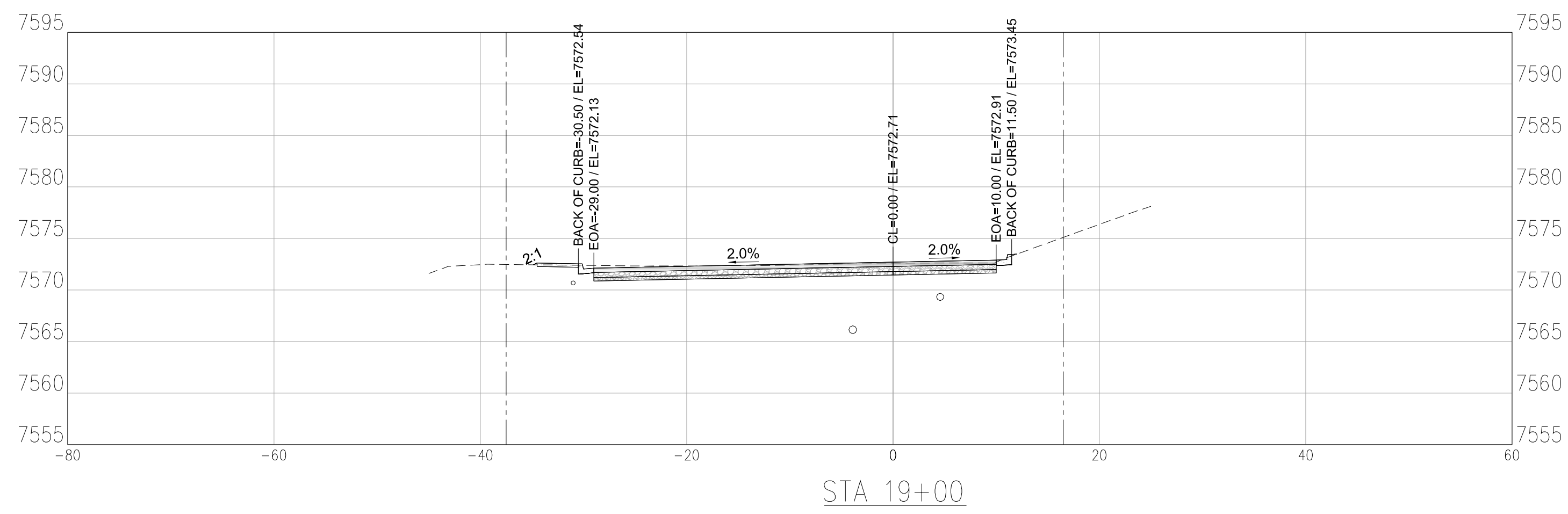
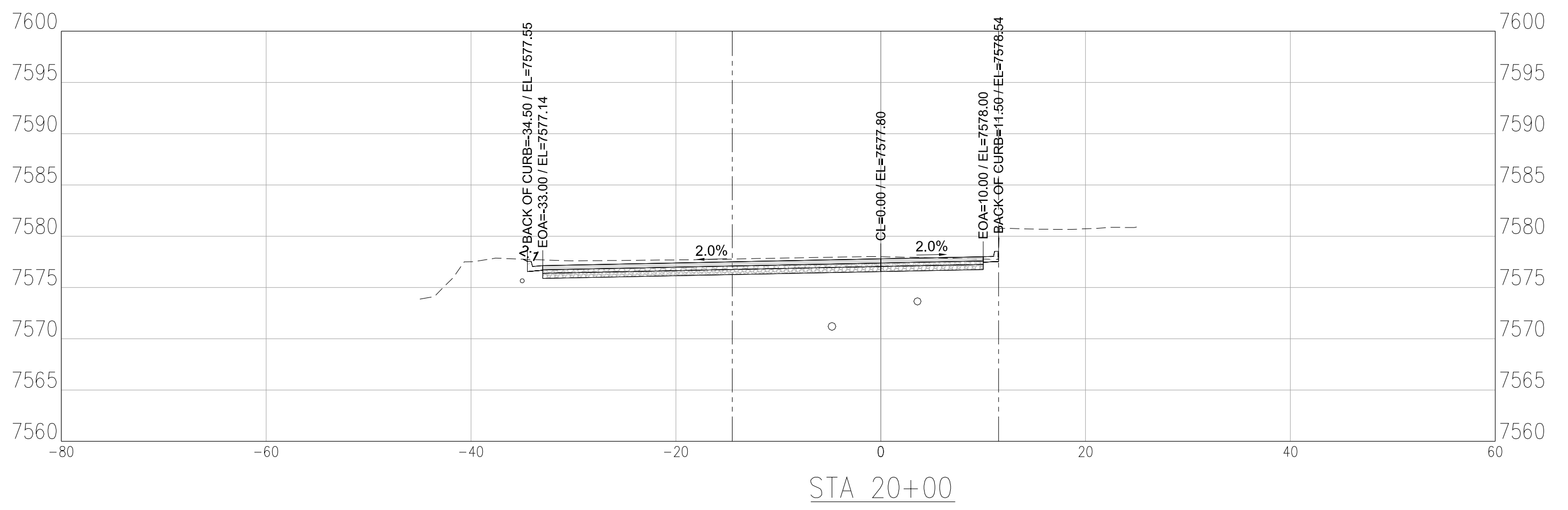
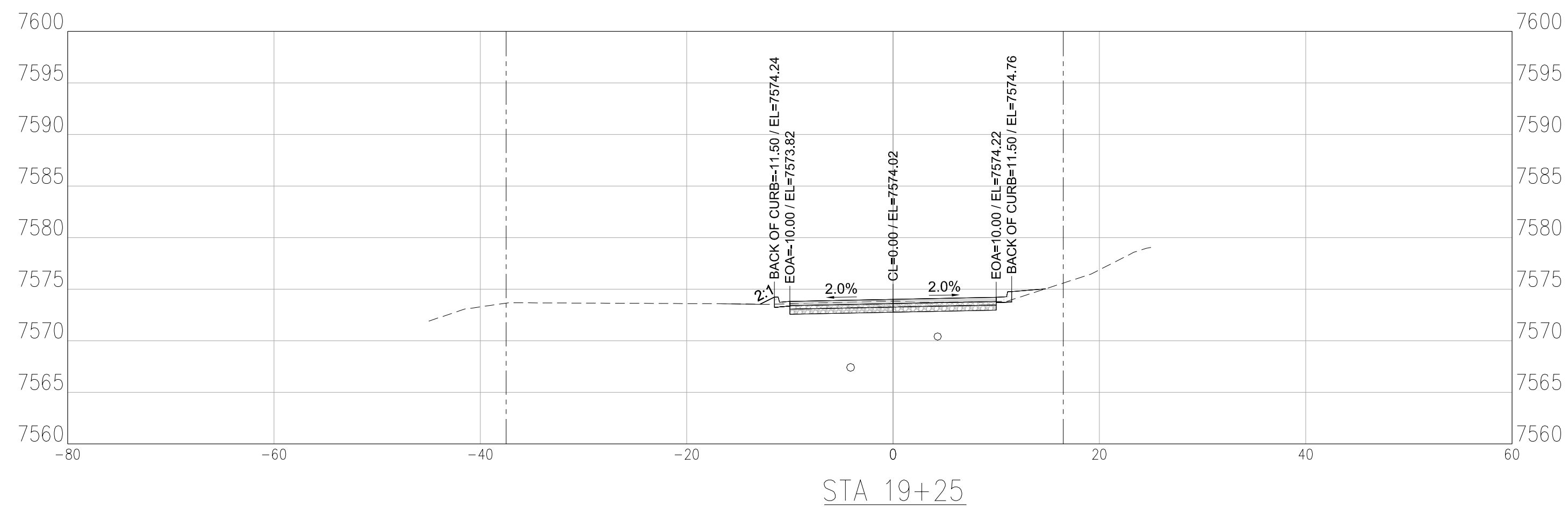
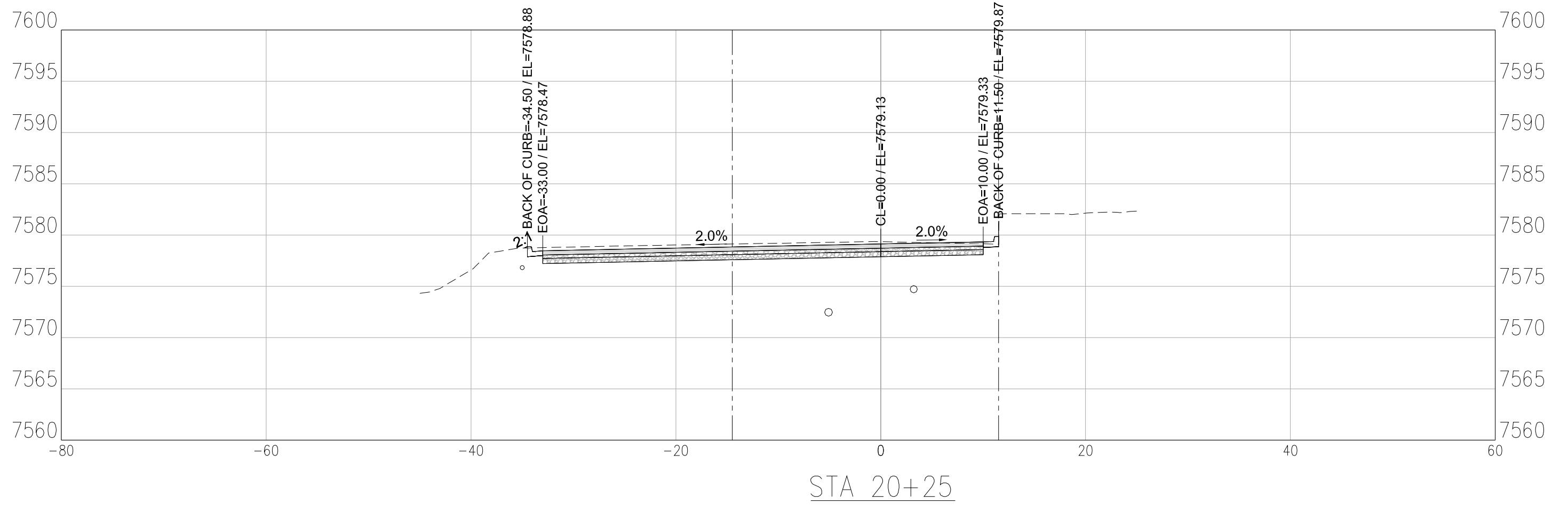
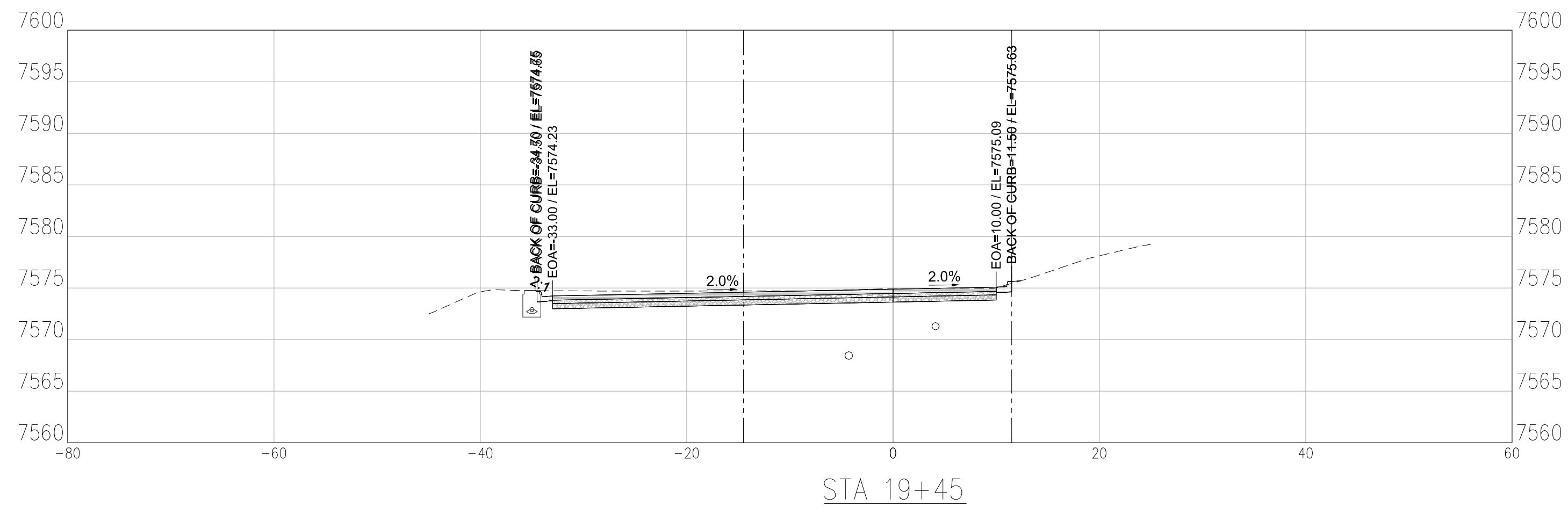
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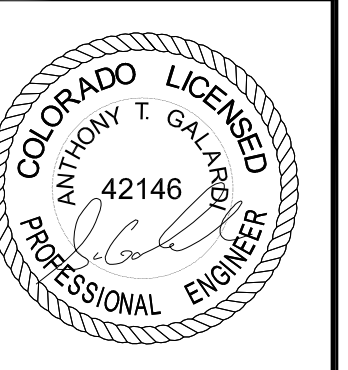
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C3.5





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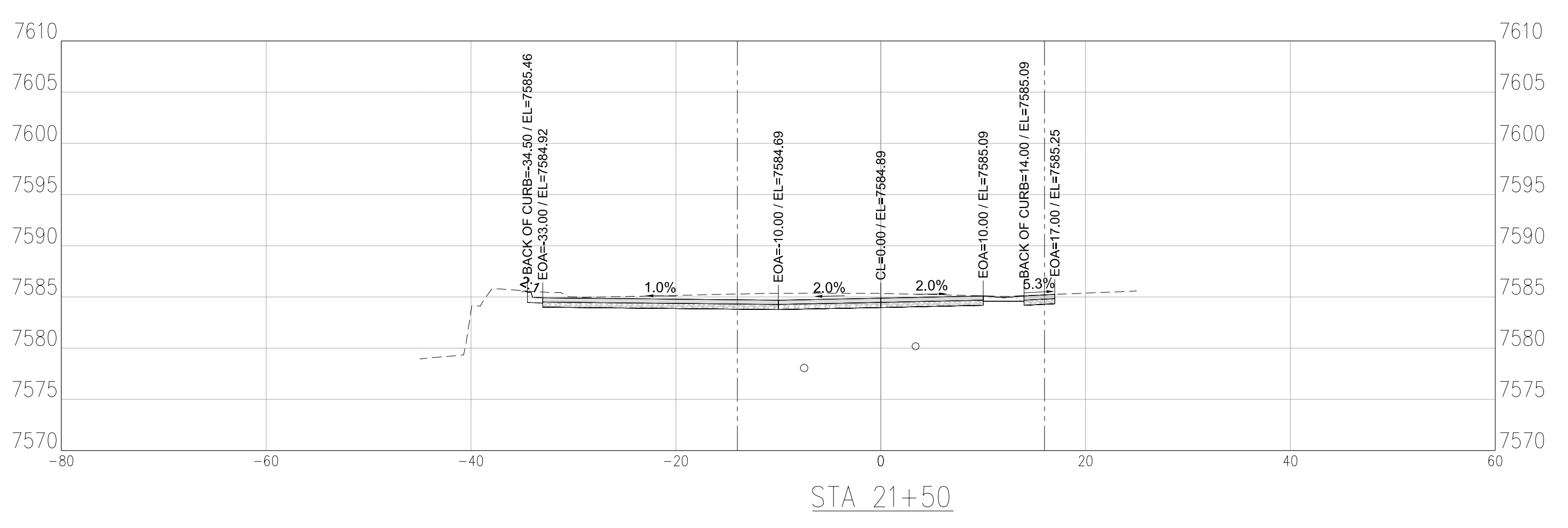
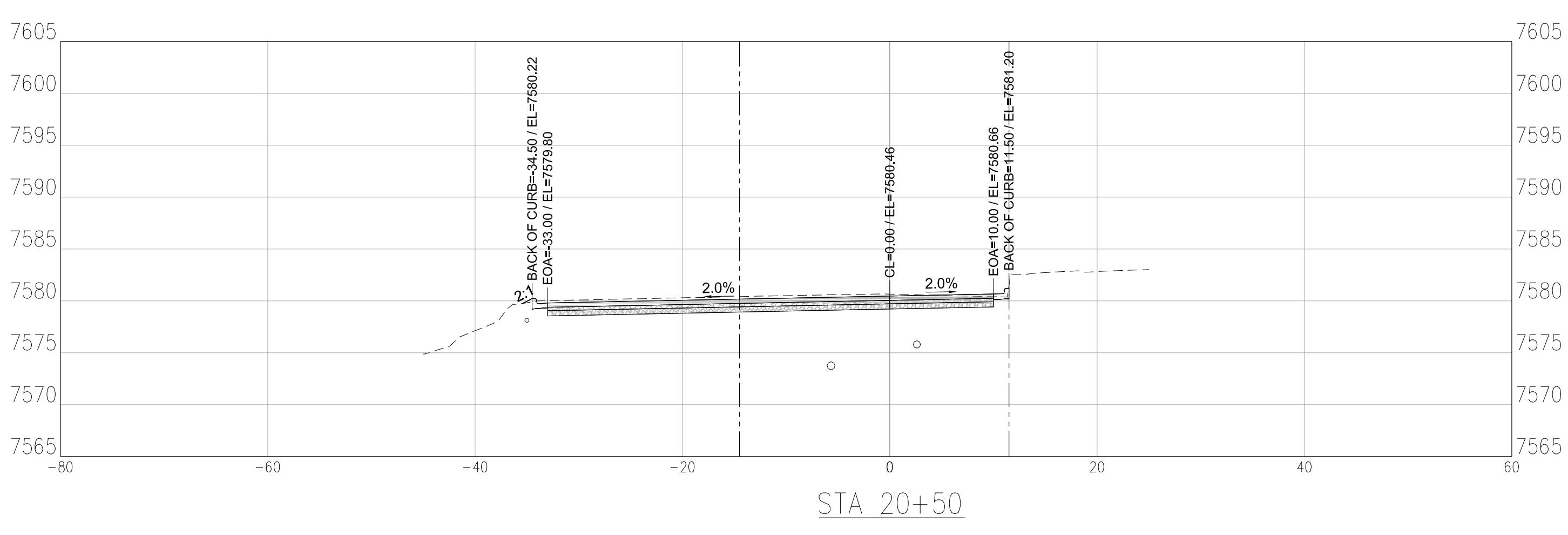
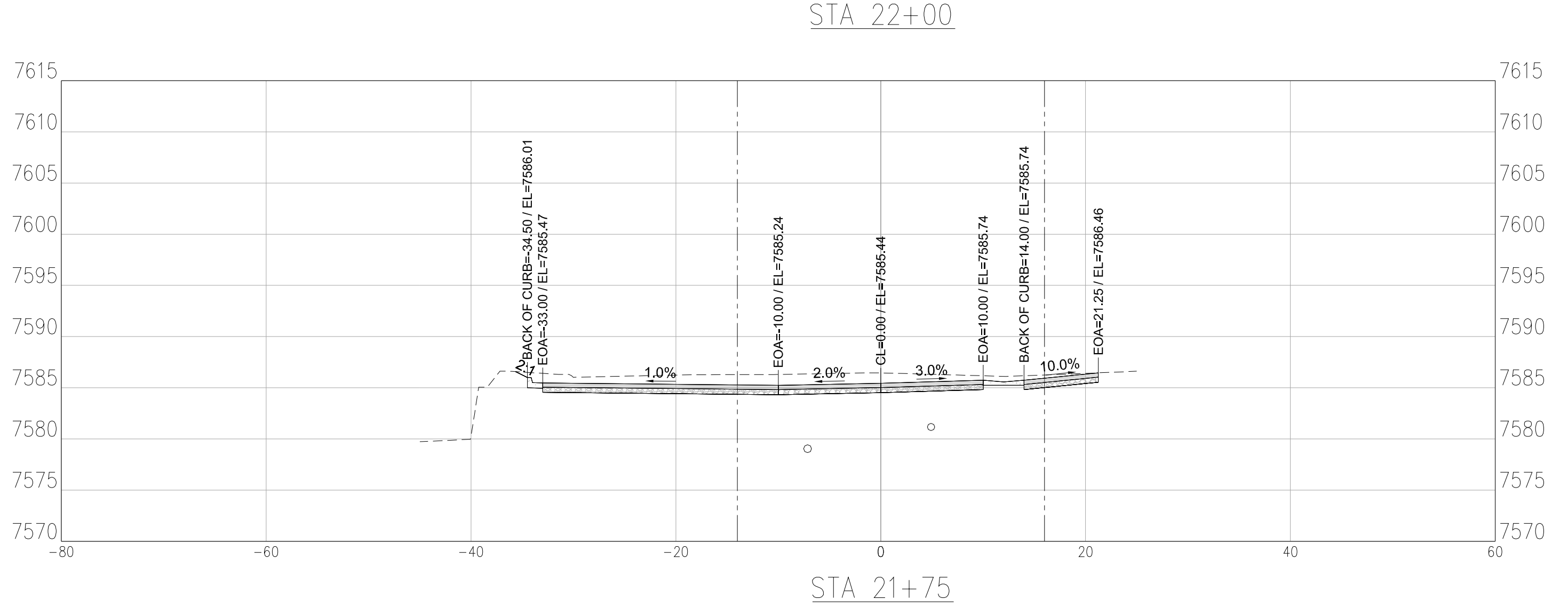
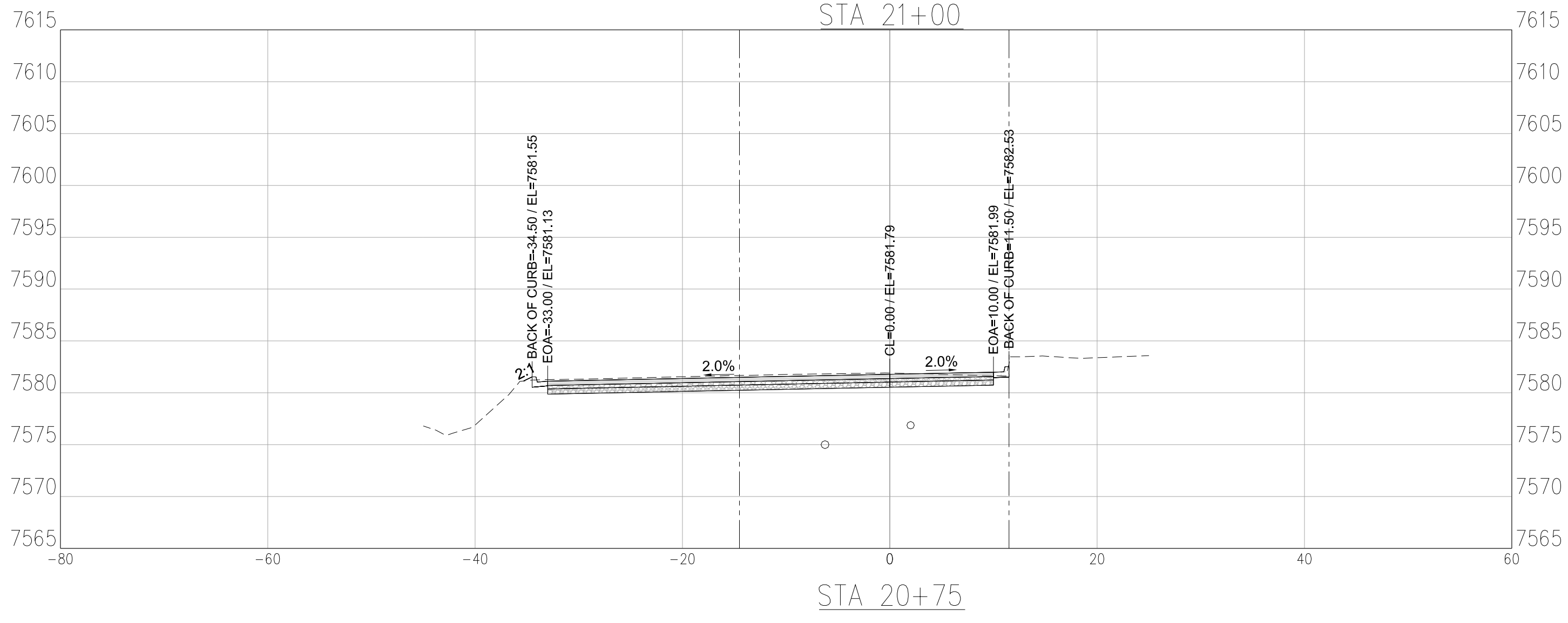
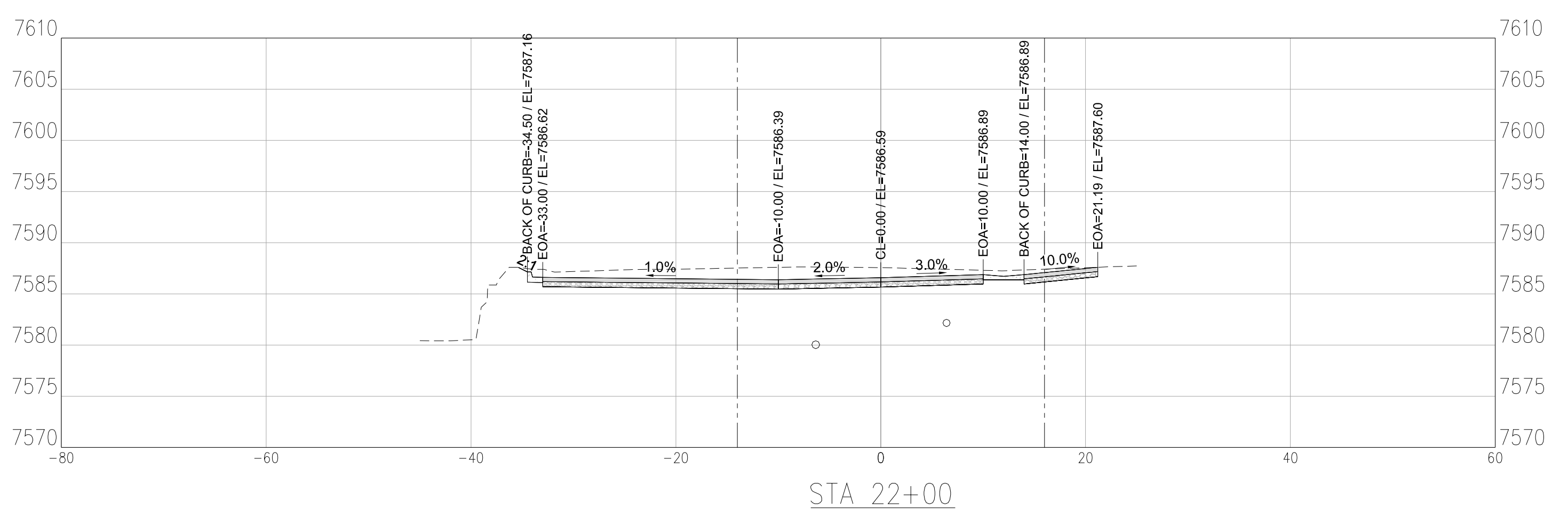
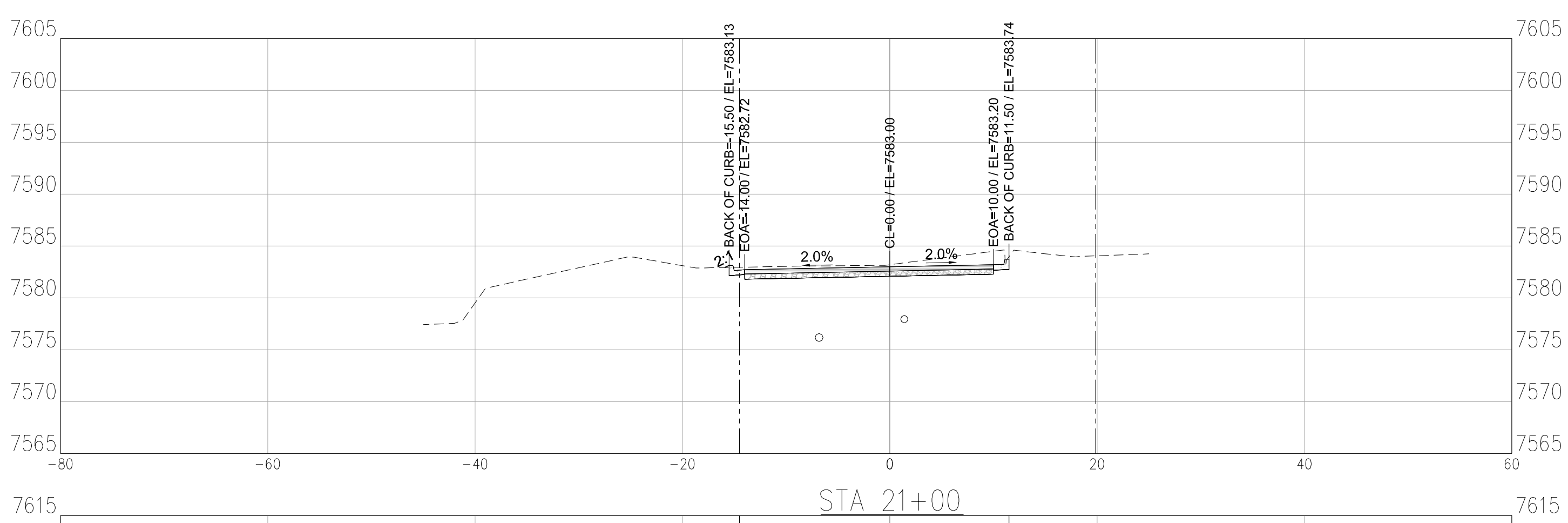
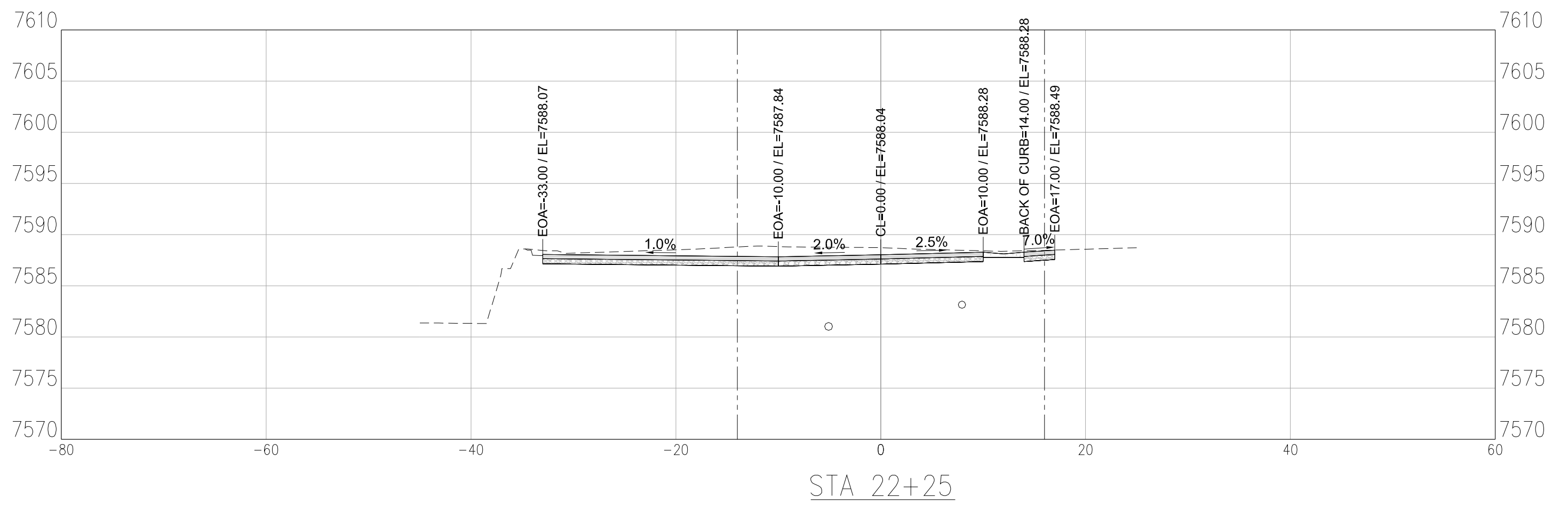
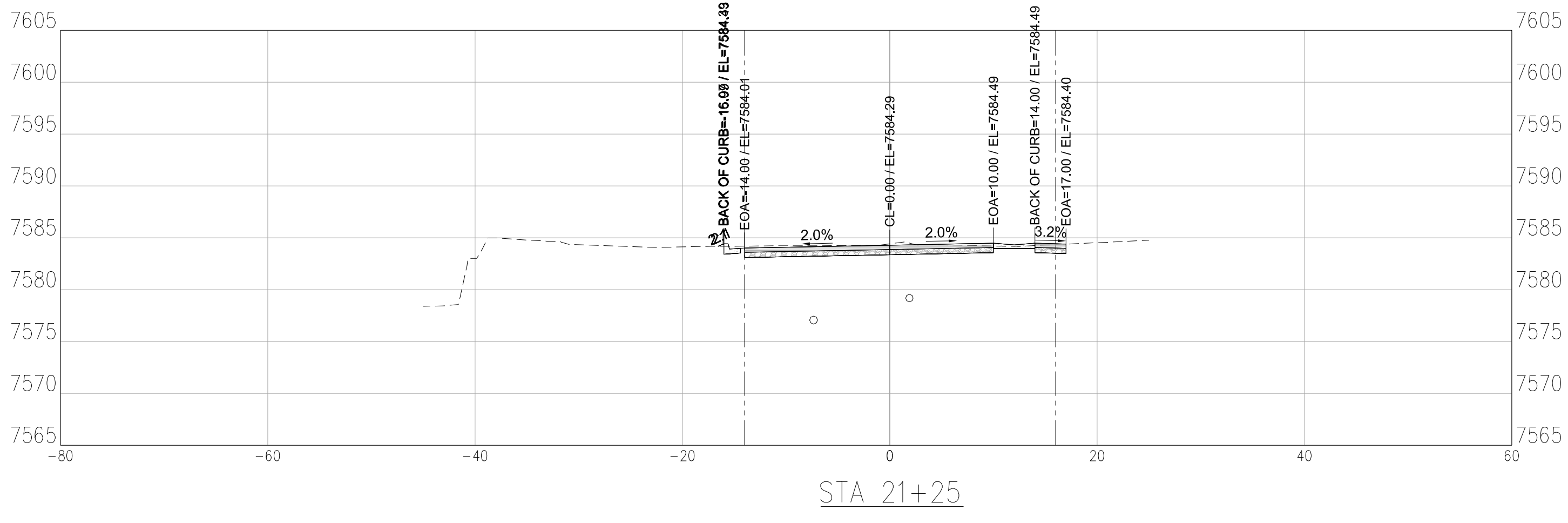


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C3.6

ROADWAY CROSS SECTIONS

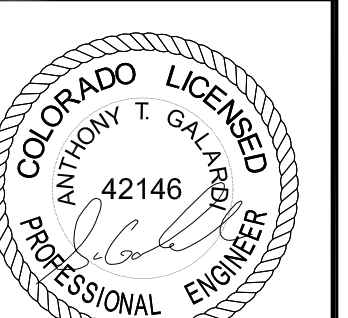




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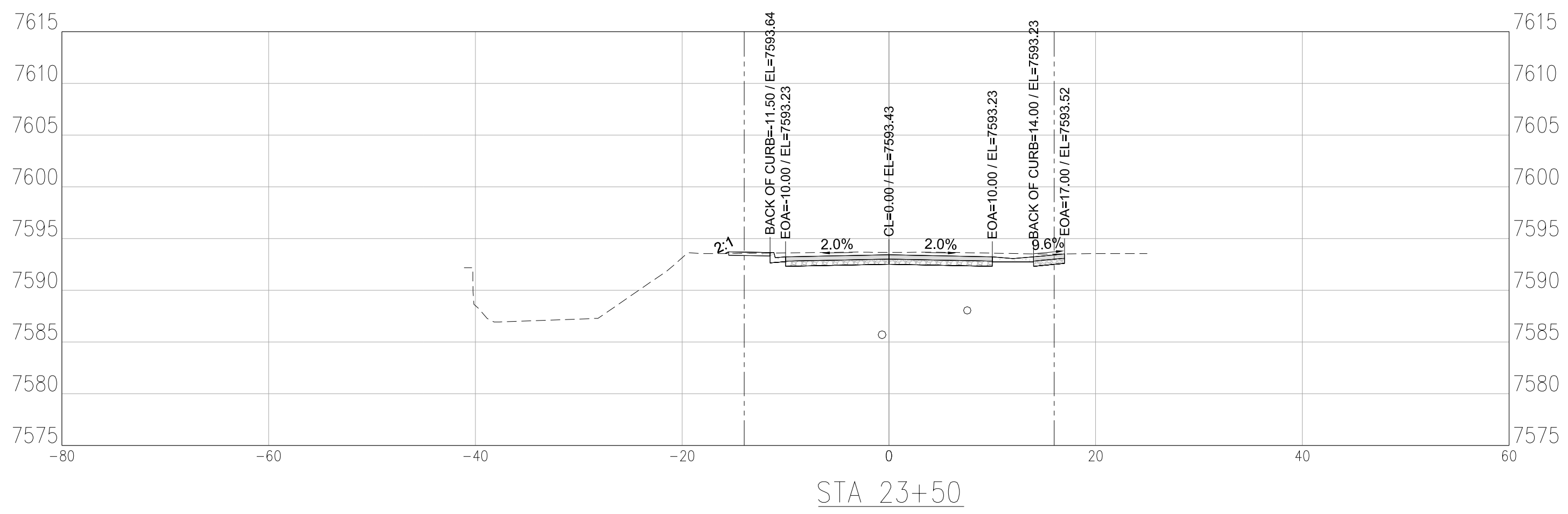
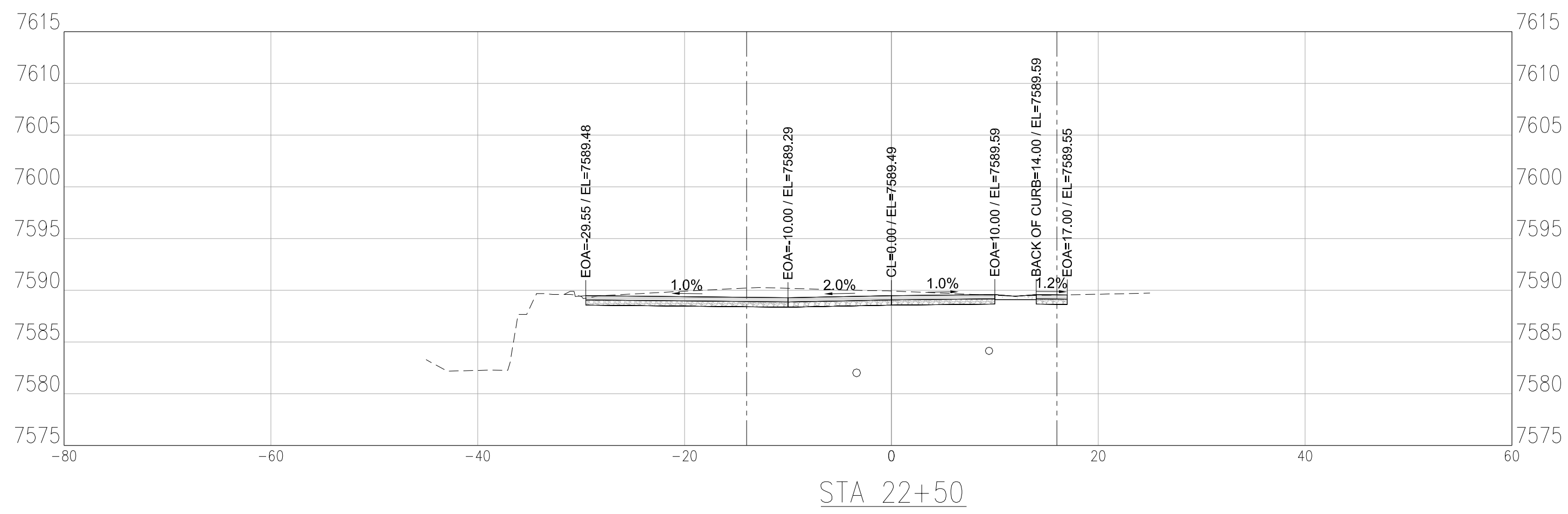
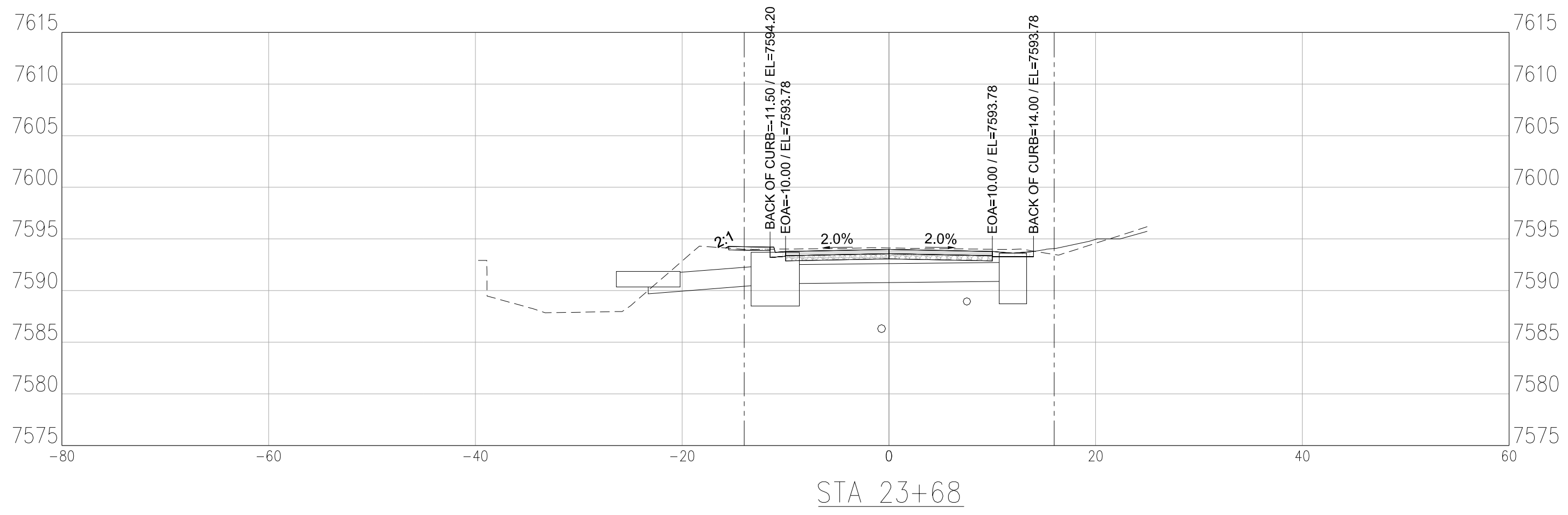
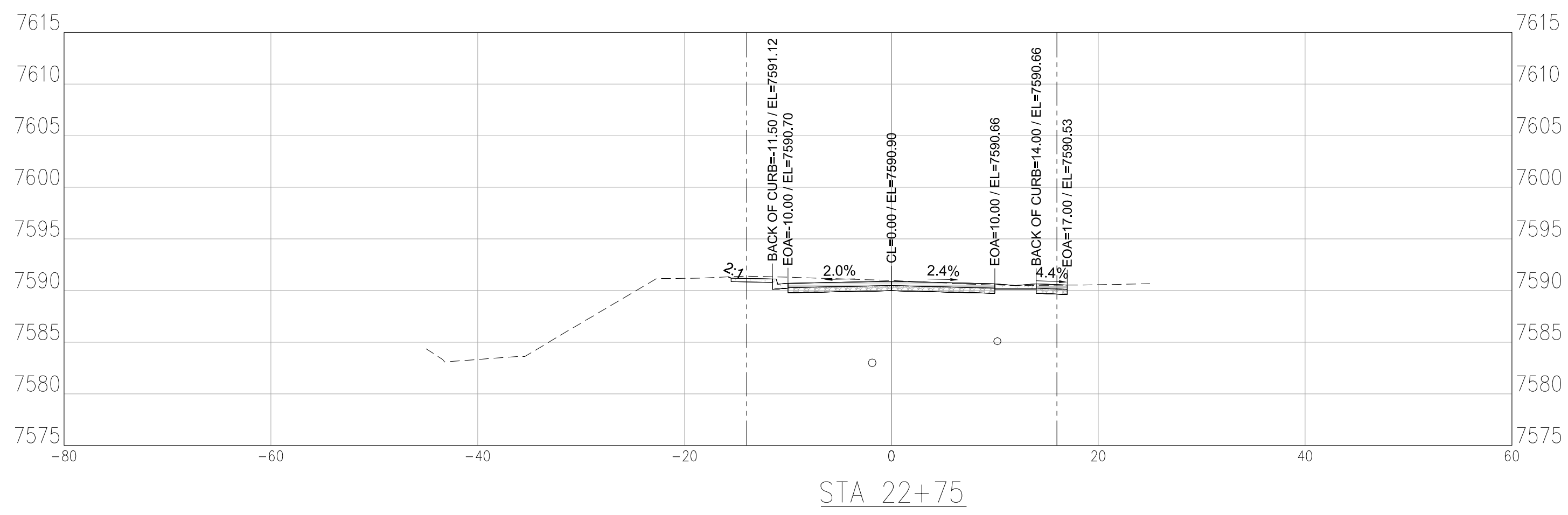
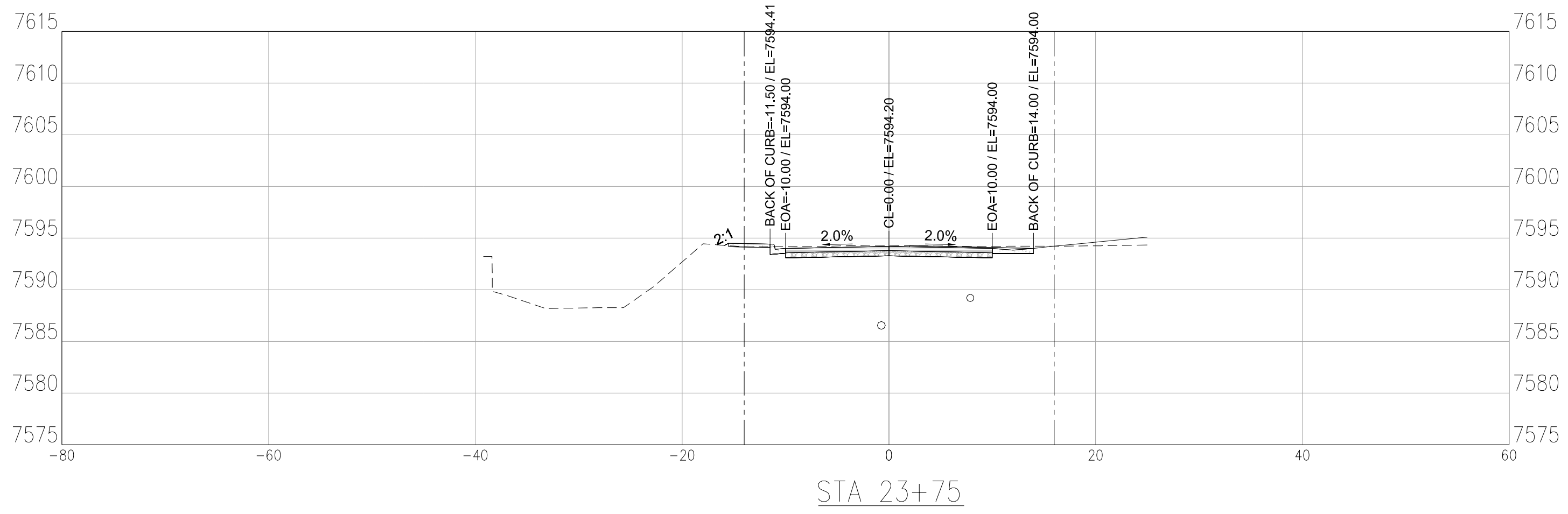
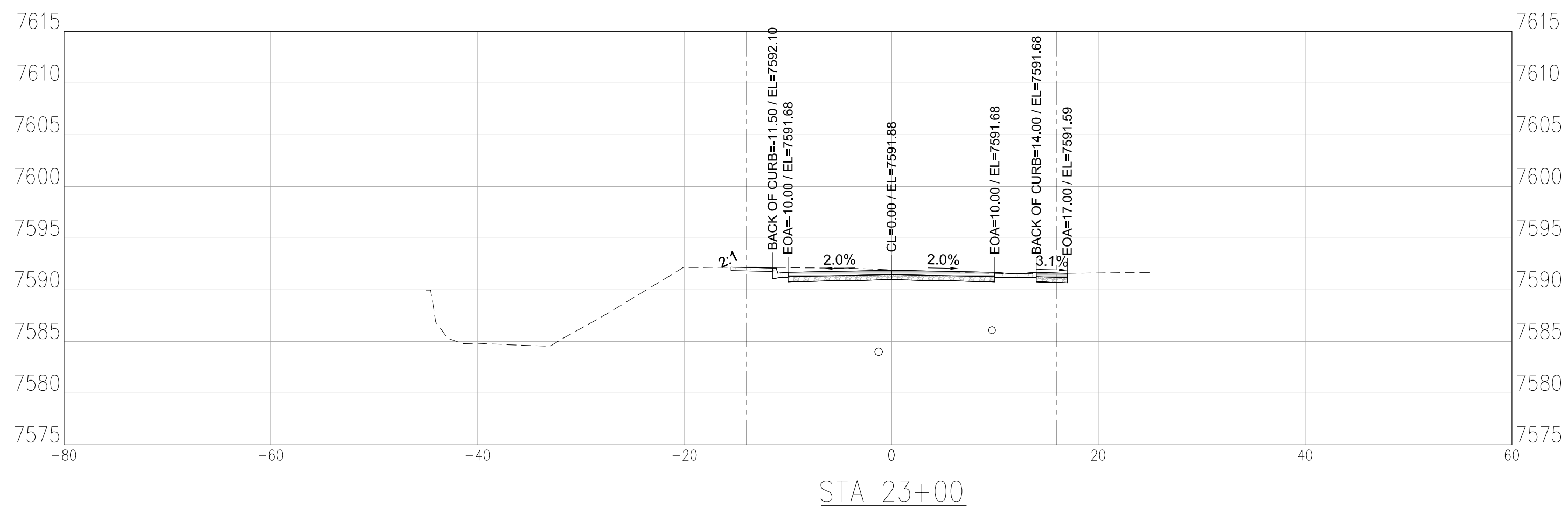
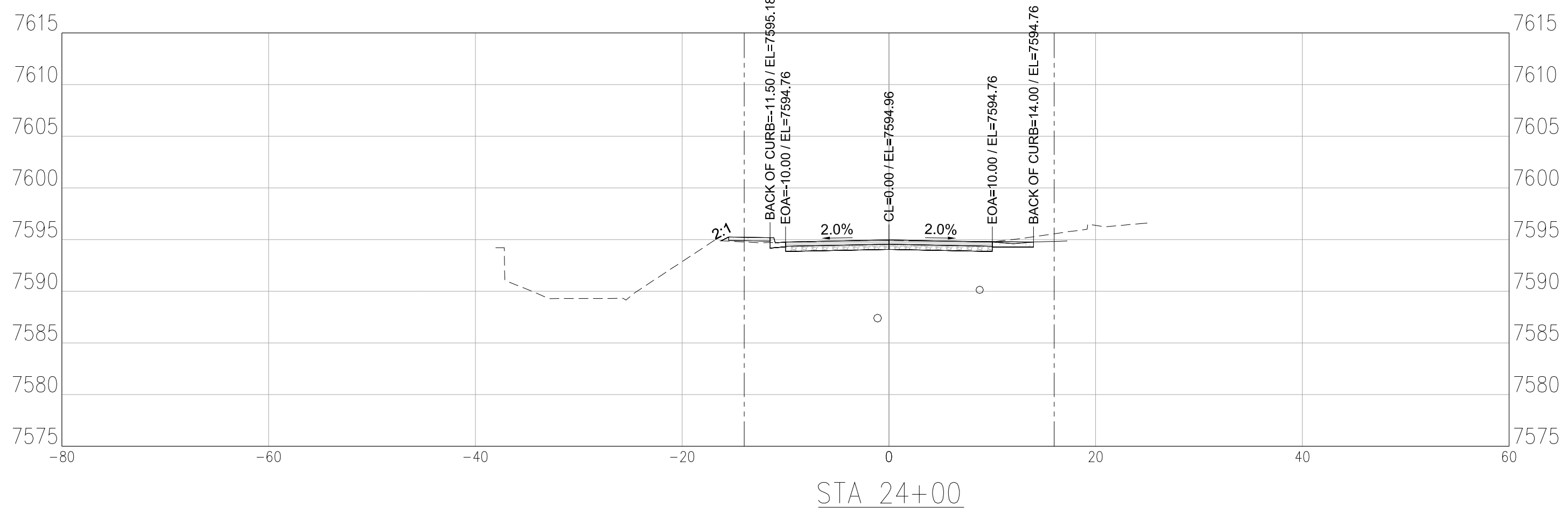
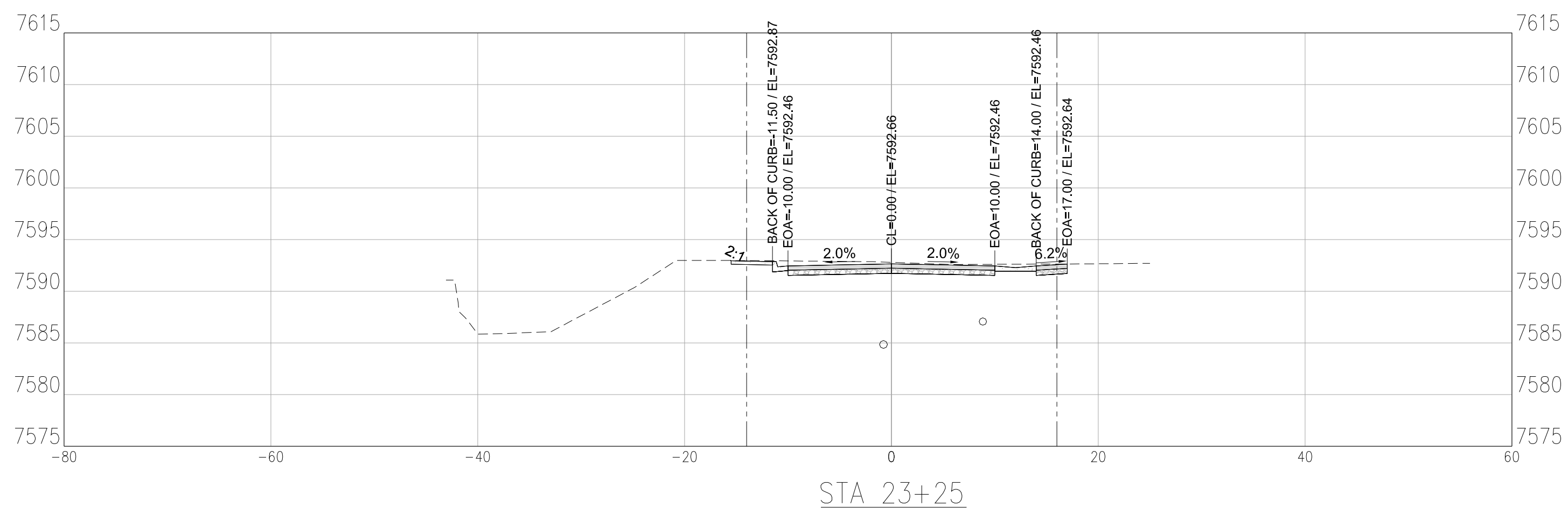


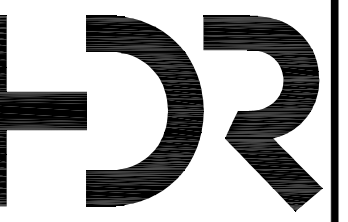
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SODA CREEK ROAD IMPROVEMENTS
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SHEET NO.
C3.7

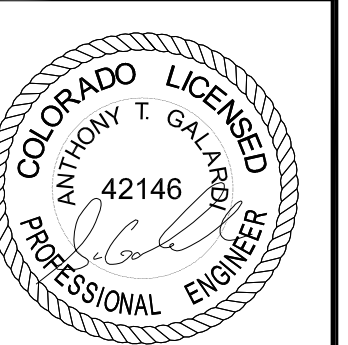




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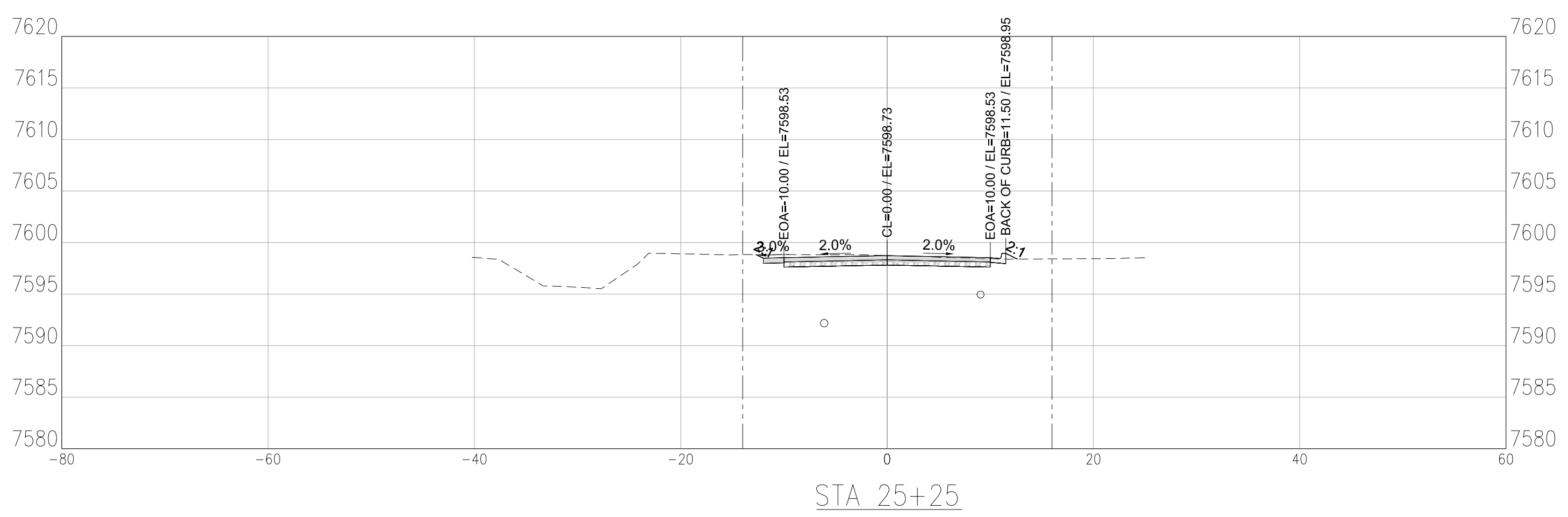
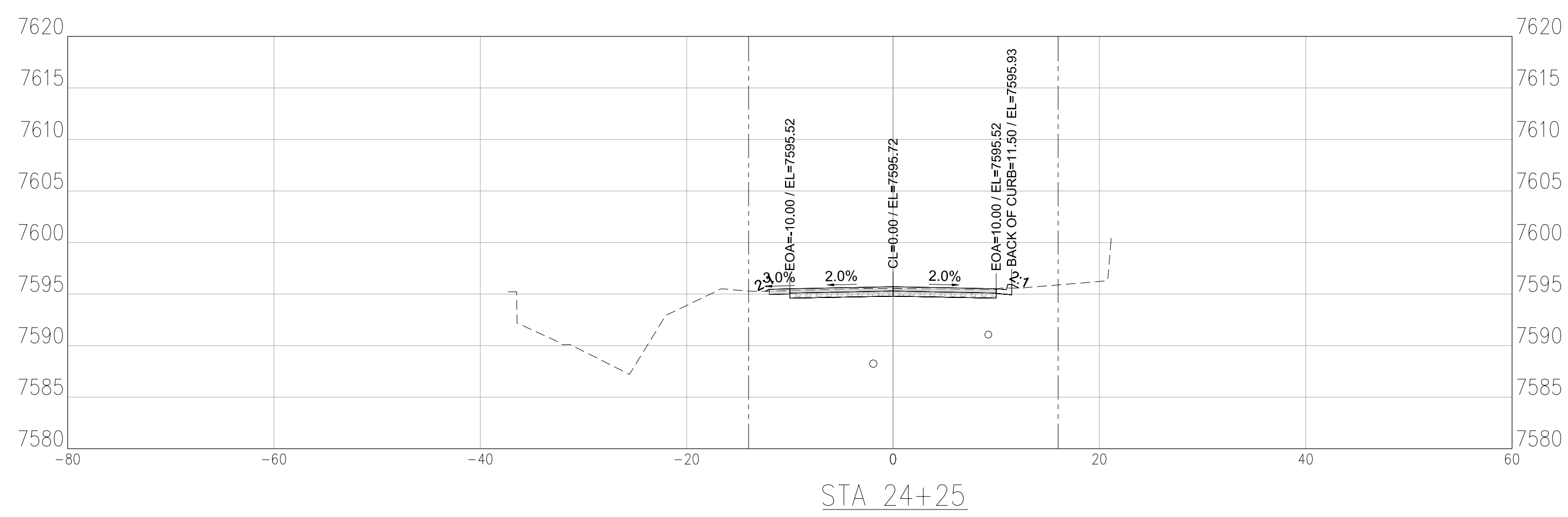
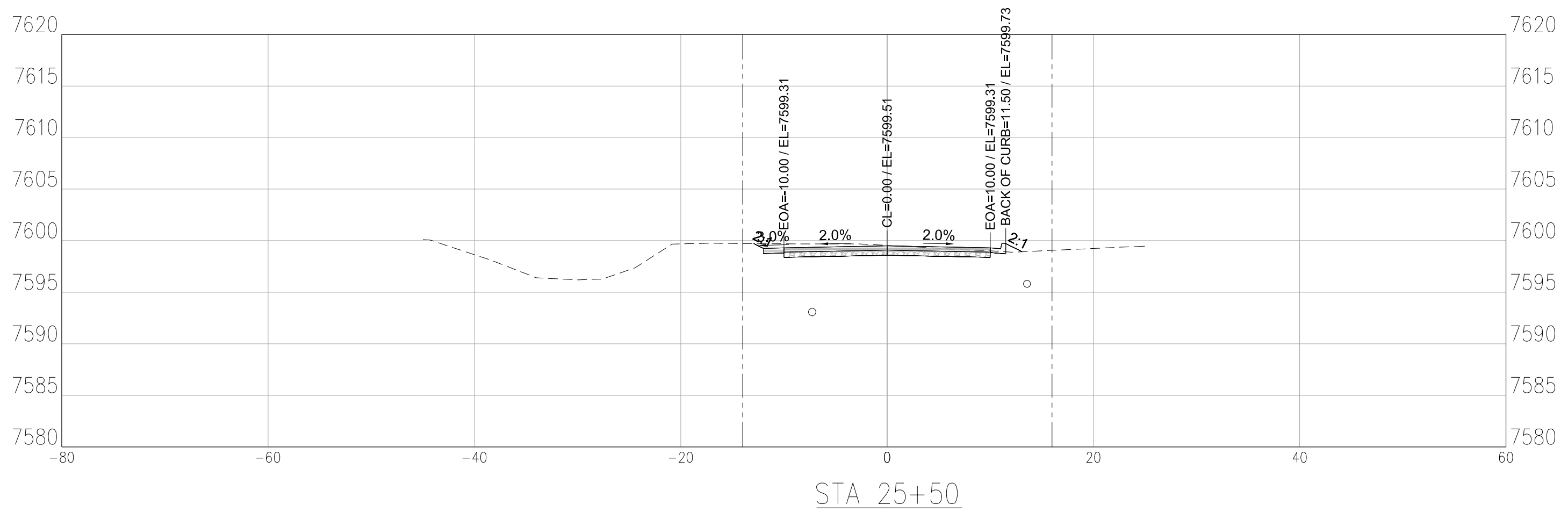
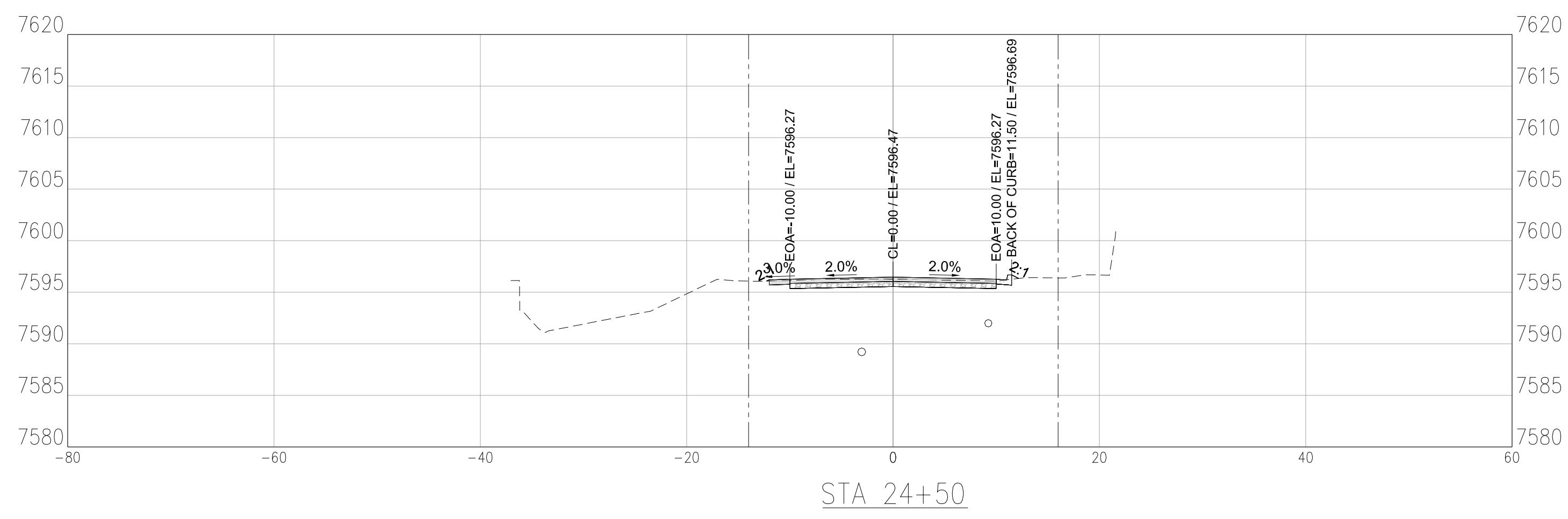
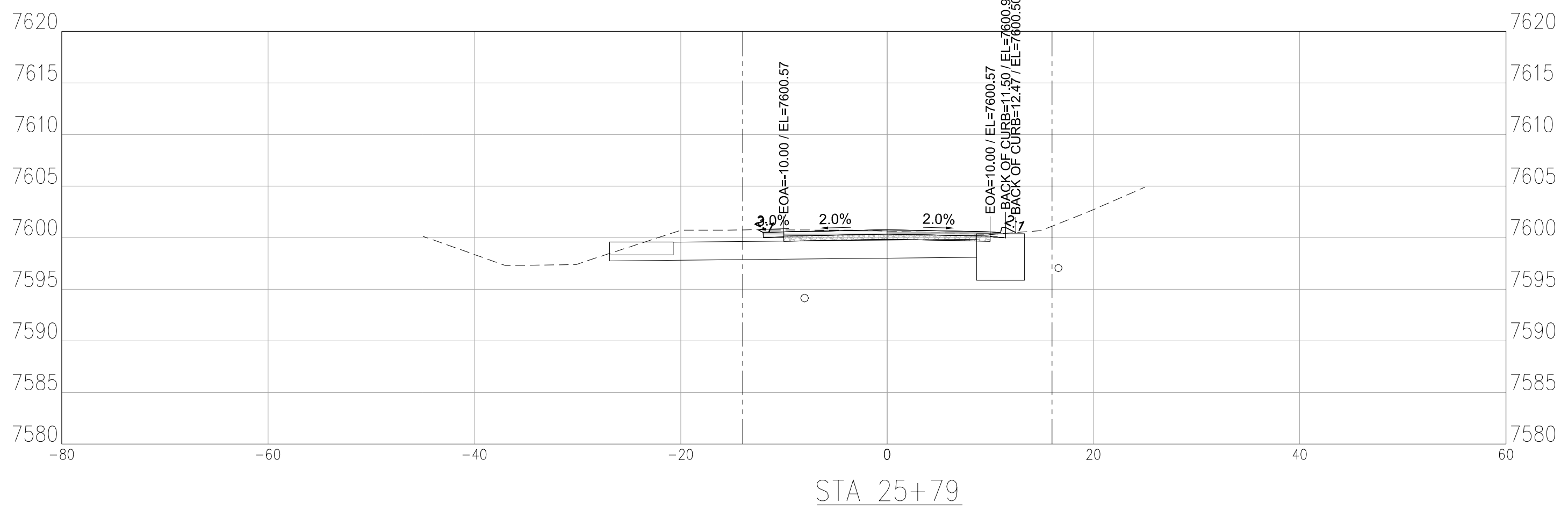
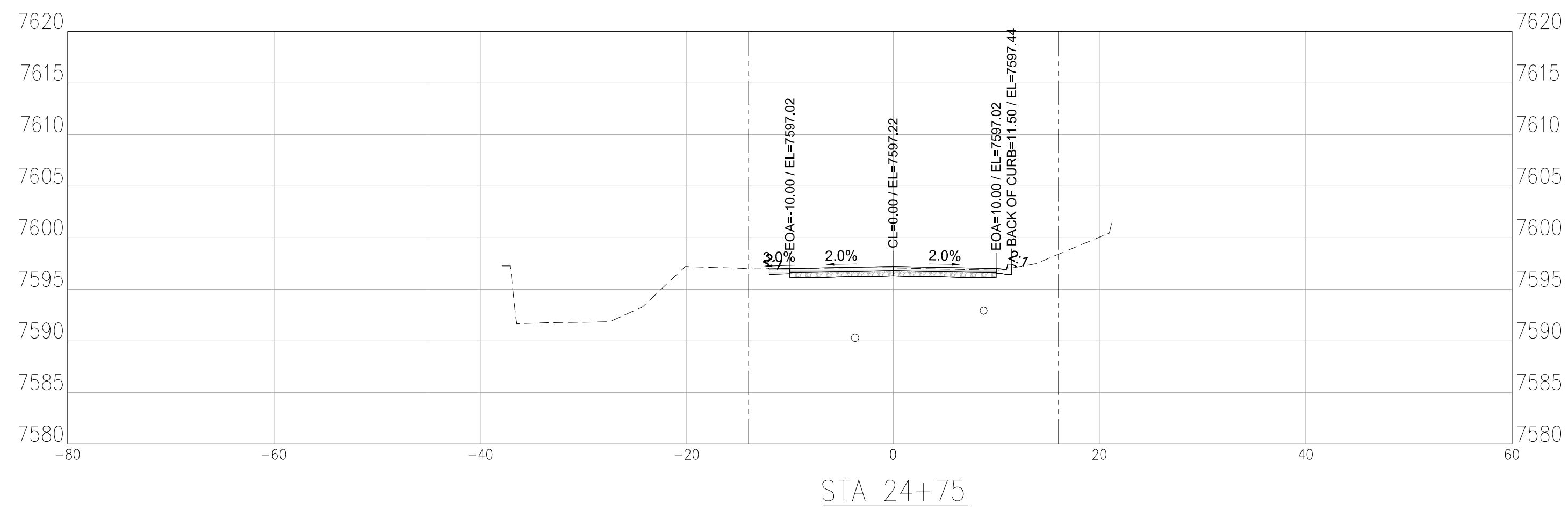
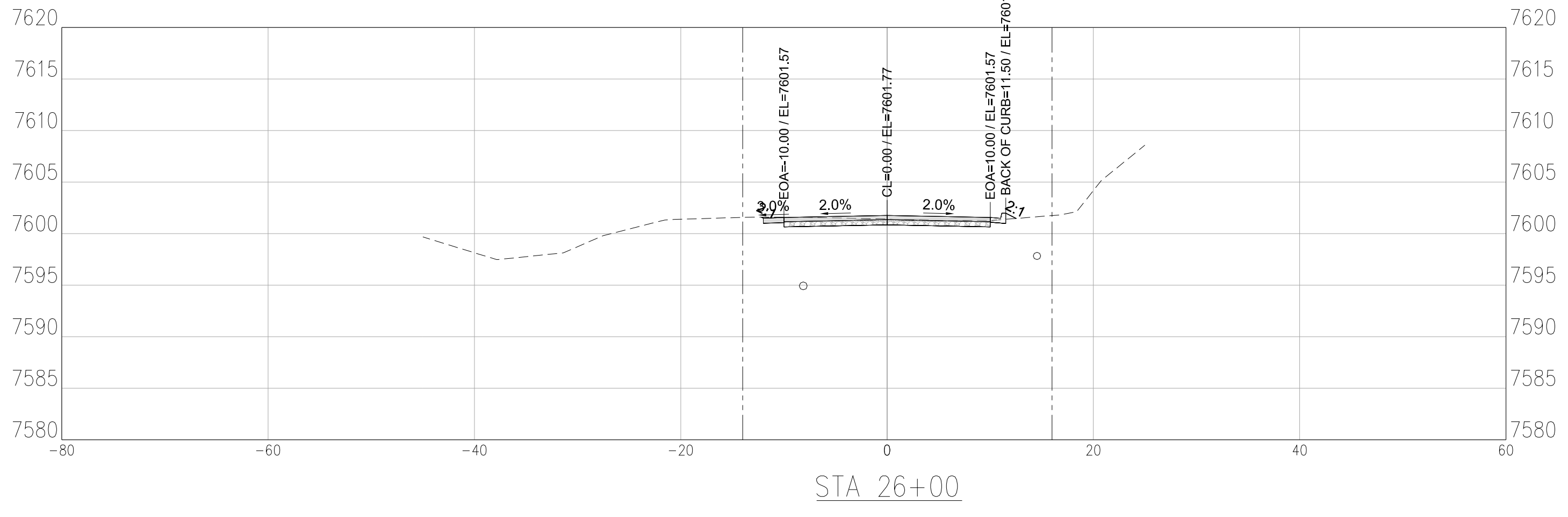
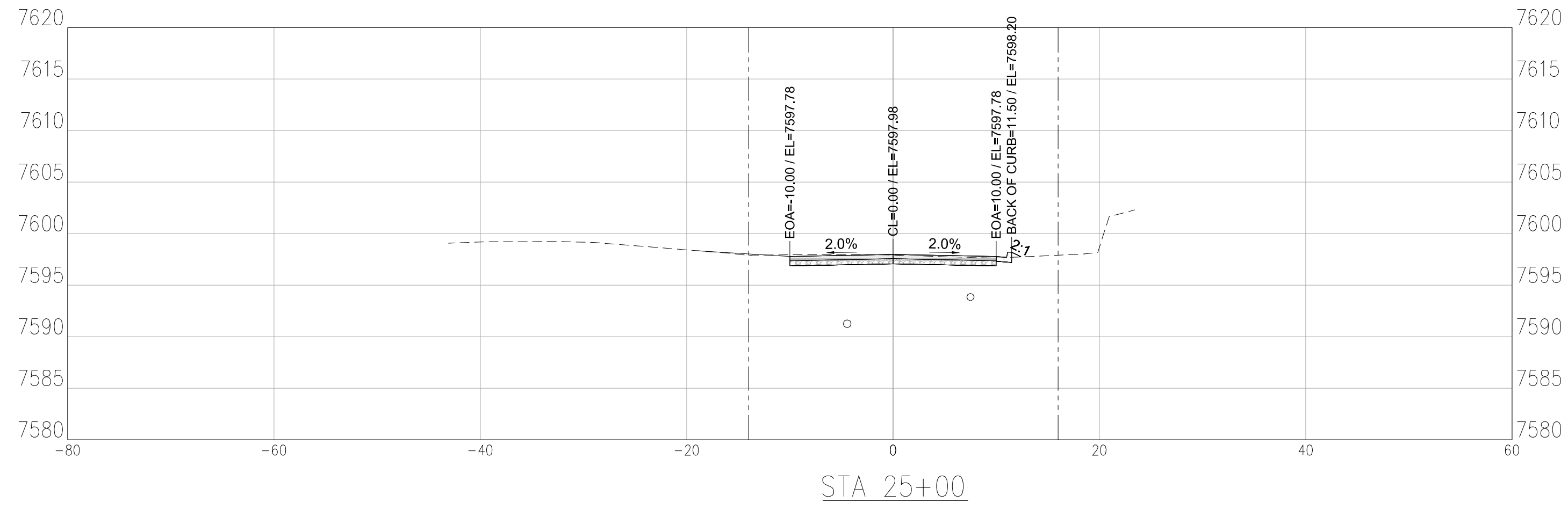
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SODA CREEK ROAD IMPROVEMENTS
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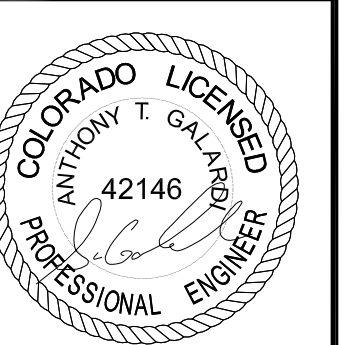
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0-408 SODA CREEK RD.
IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

SHEET NO.
C3.8

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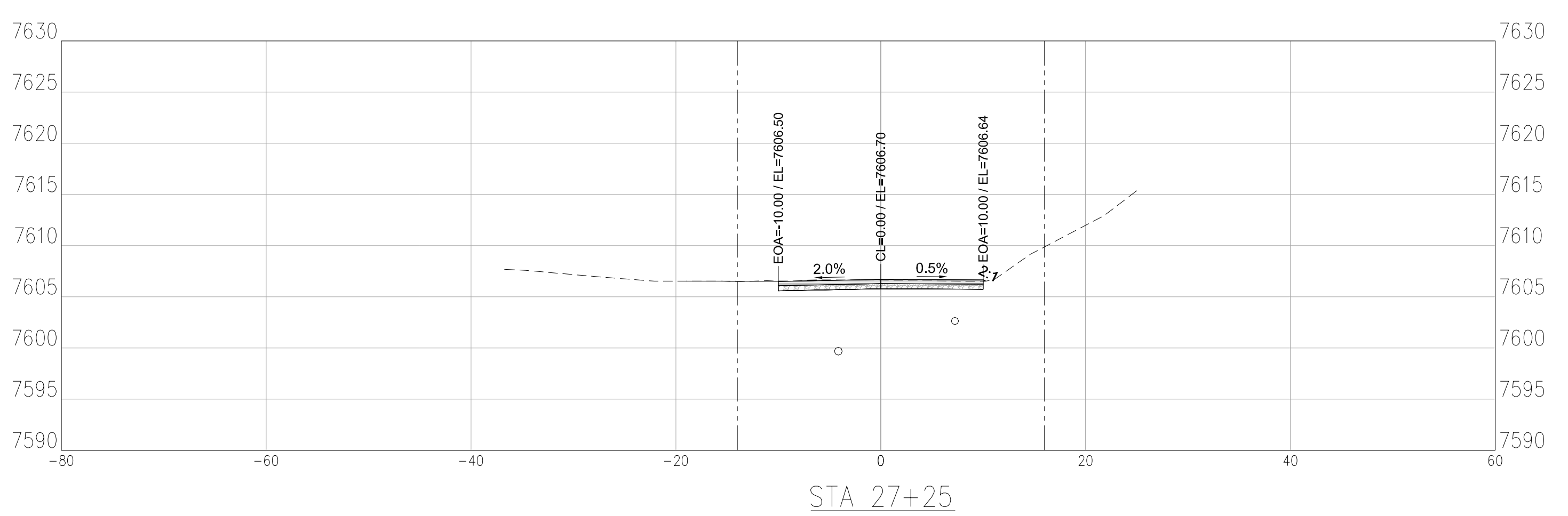
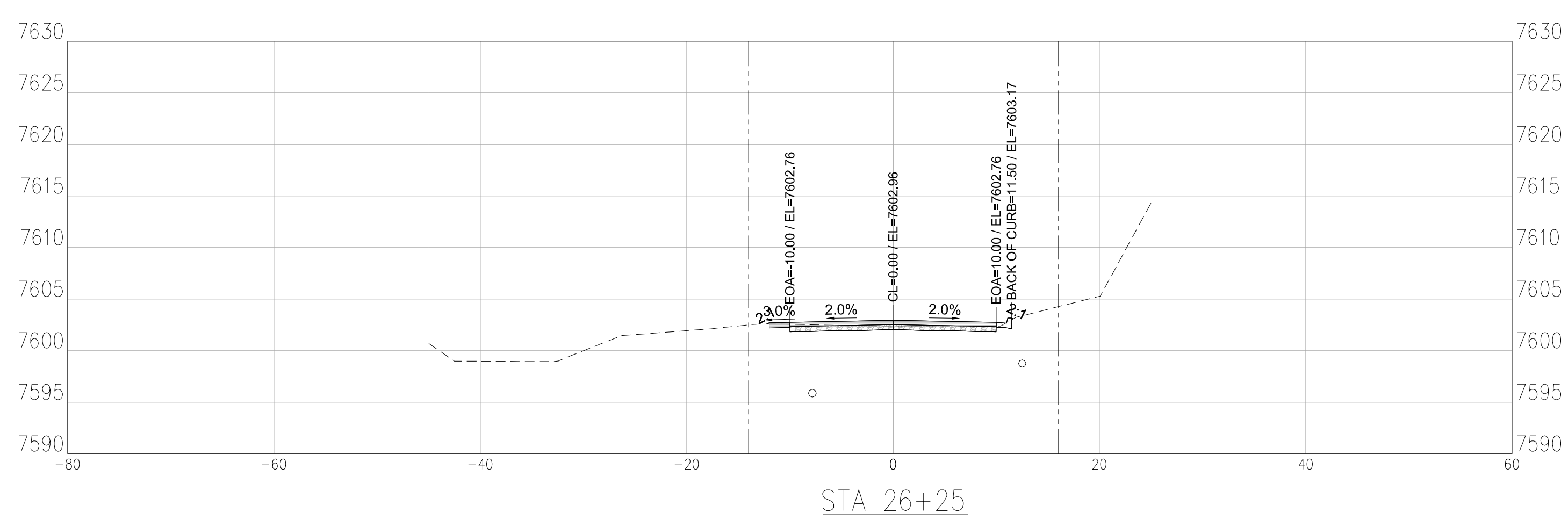
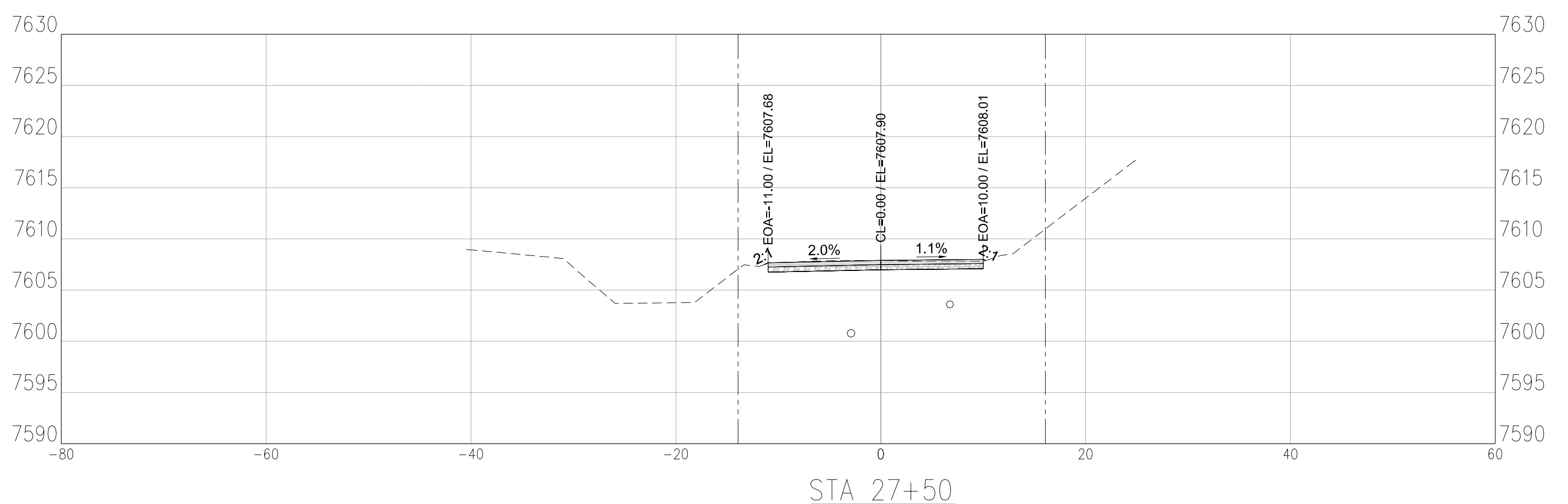
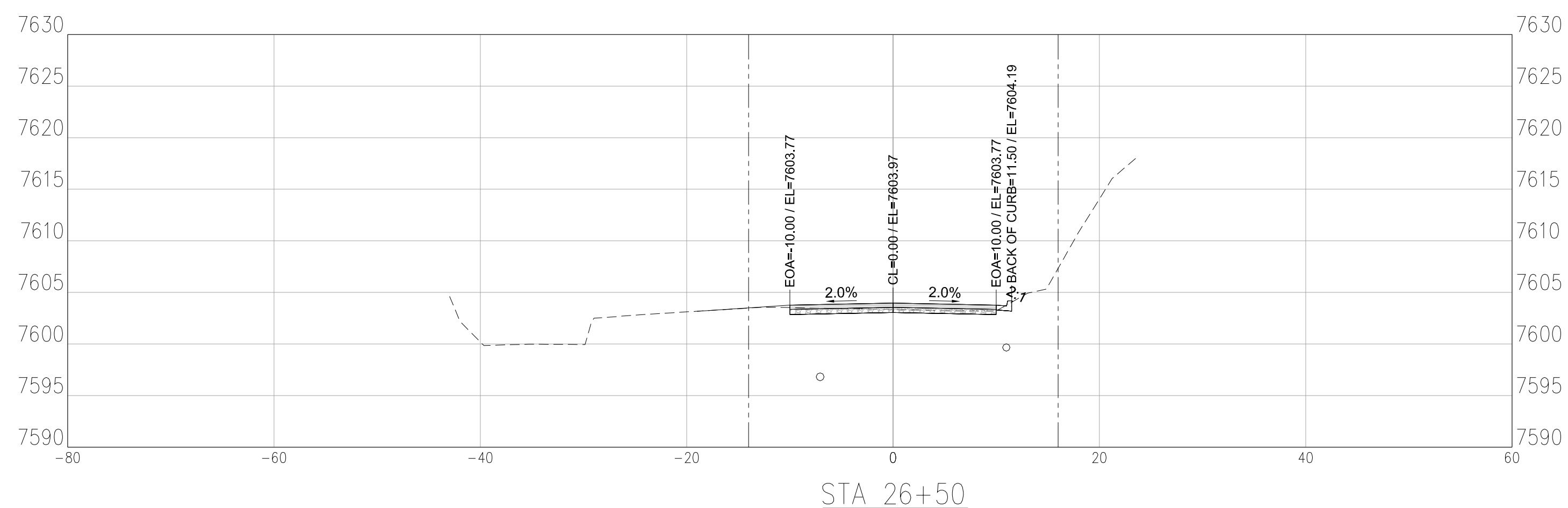
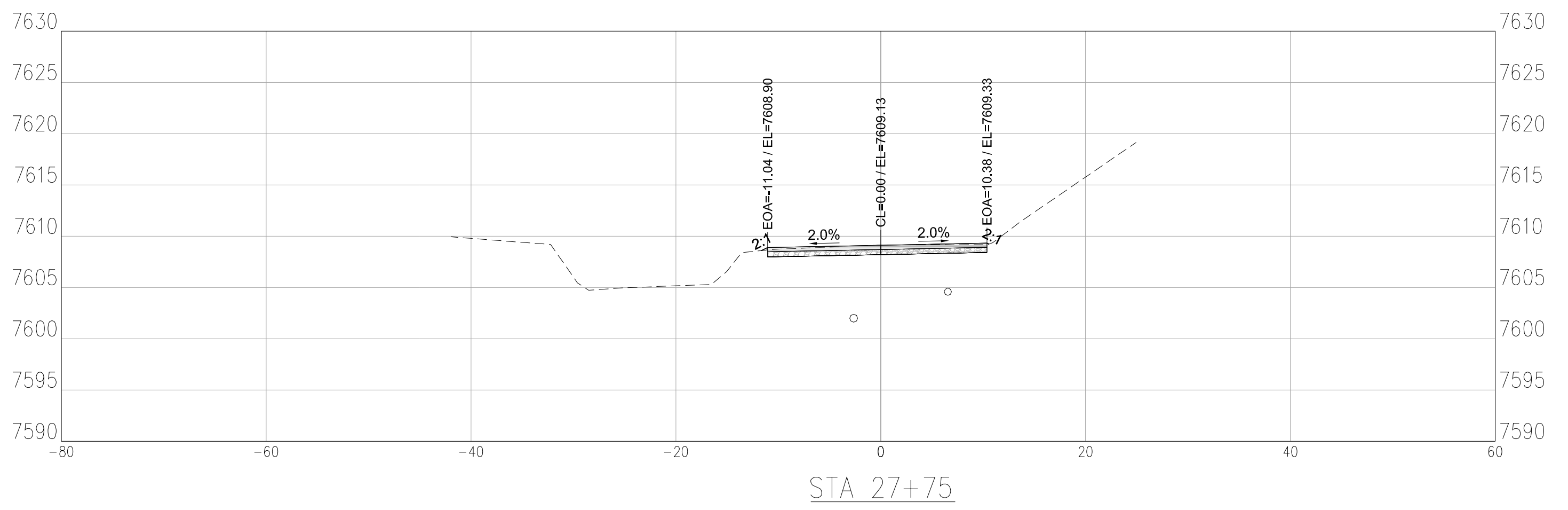
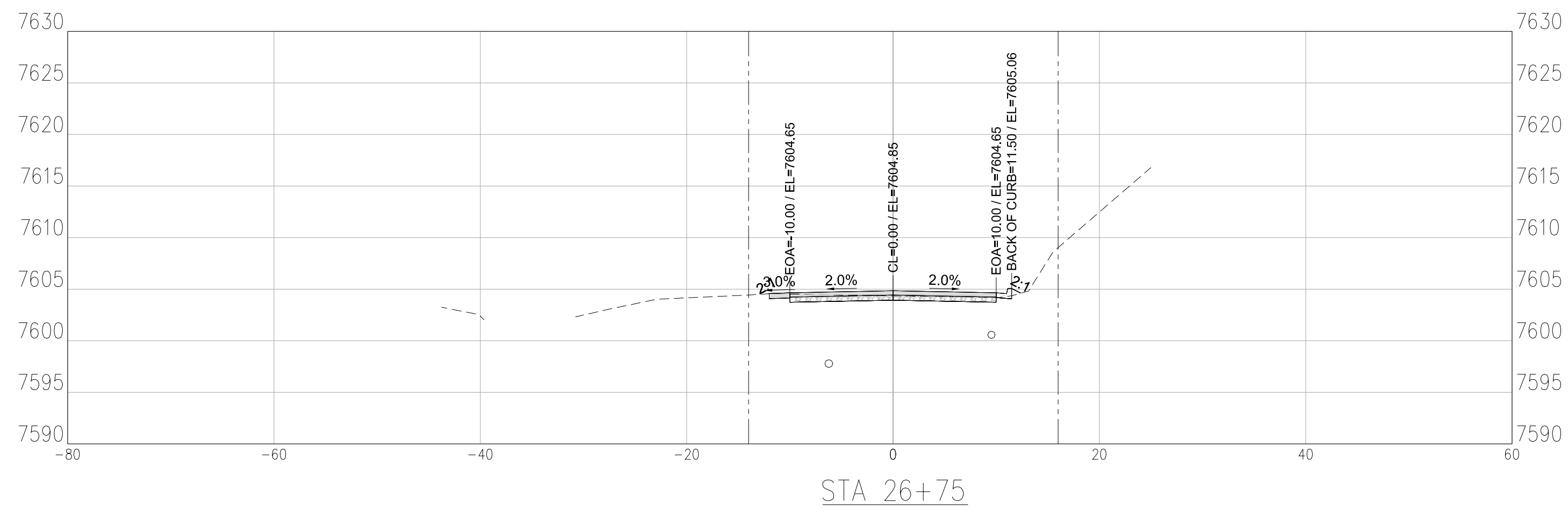
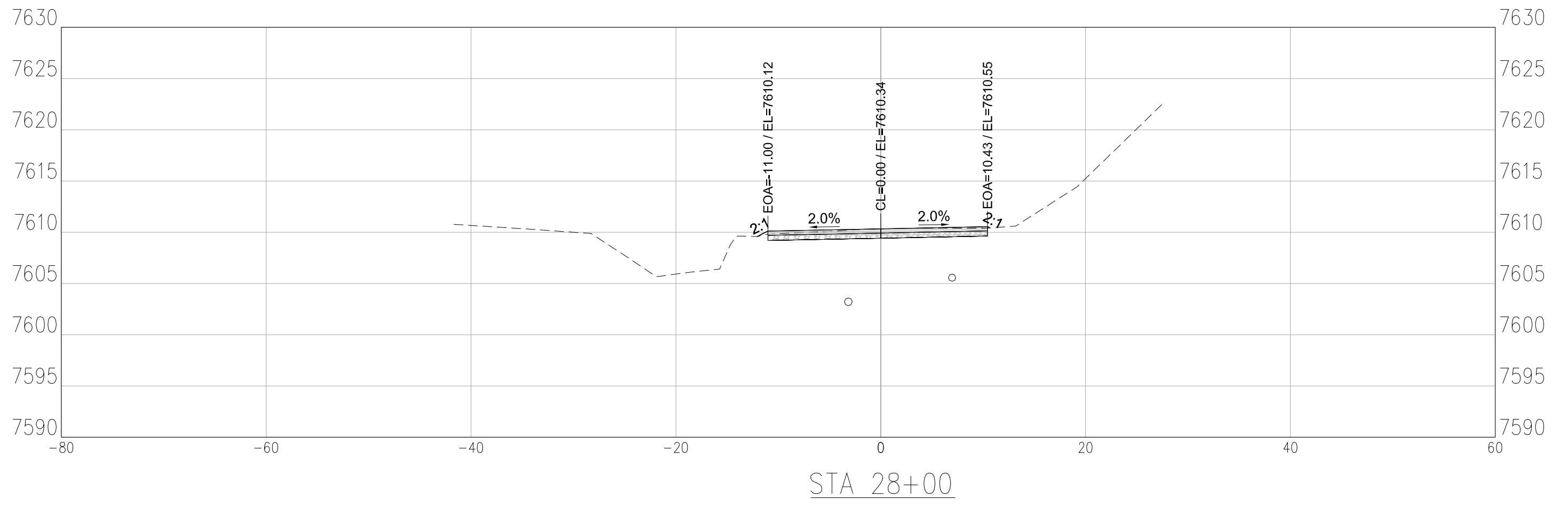
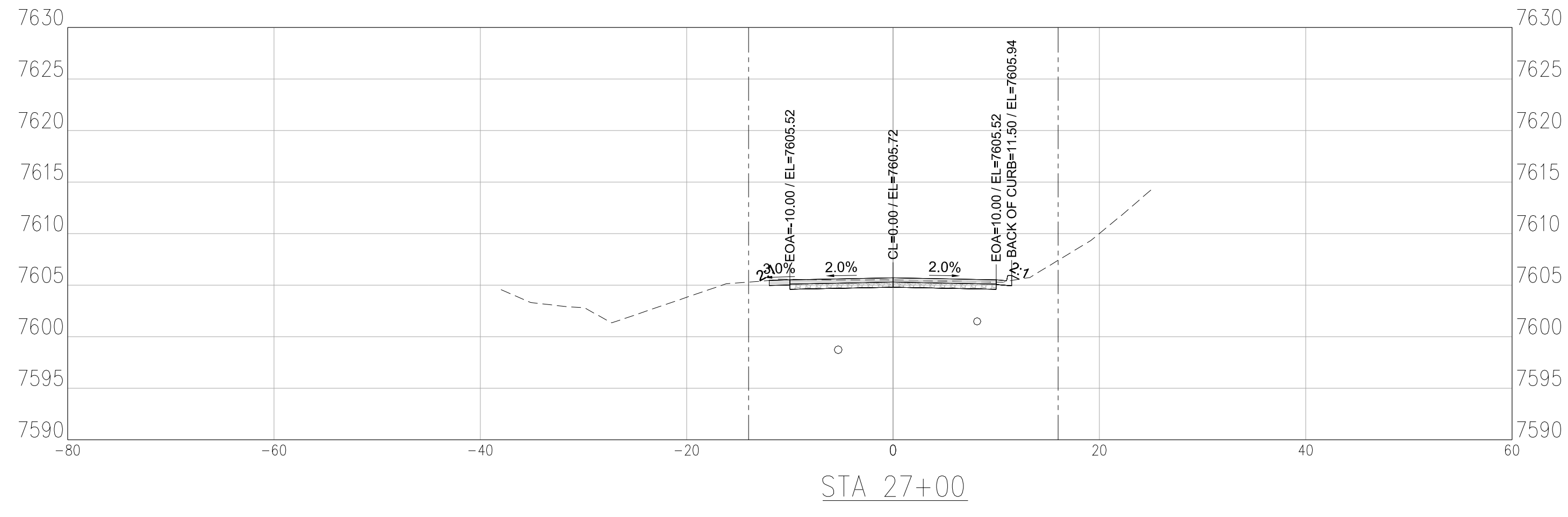
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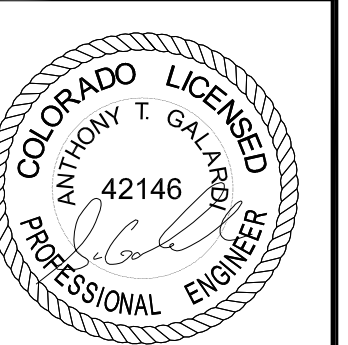
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IDAHO SPRINGS, CLEAR CREEK COUNTY, CO.

ROADWAY CROSS SECTIONS

