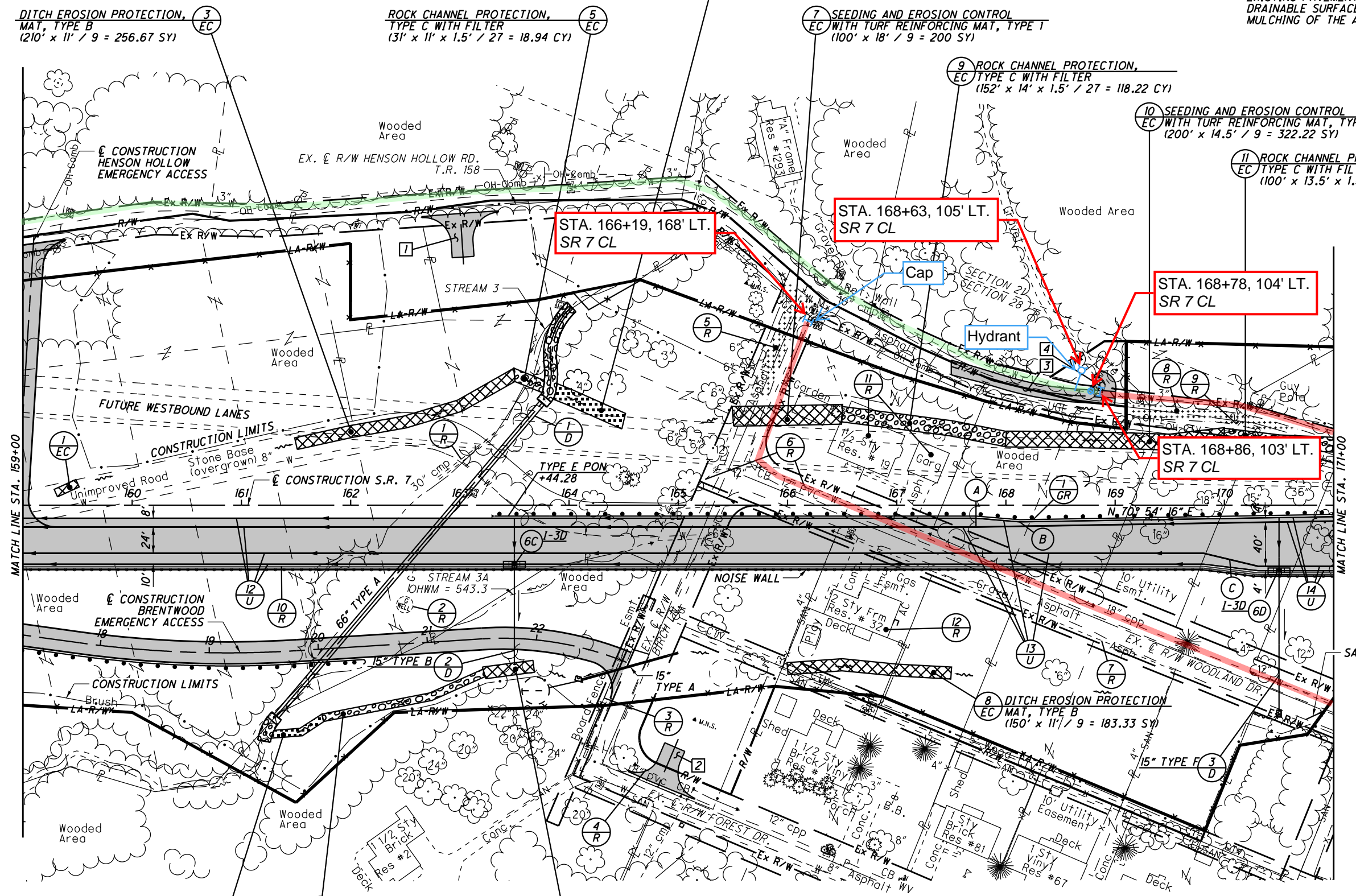


# Hecla Water Association Relocation Plans

ARTICULATING CONCRETE BLOCK  
PAVEMENT SYSTEM, TYPE 1  
(168' x 14' / 9 = 105.78 SY)

----- PAVEMENT REMOVED  
QUANTITIES ARE INCLUDED IN REFERENCE  
NUMBERS 5-R AND 8-R FOR THE REMOVAL OF  
EXISTING PAVEMENT, REGRADING TO ENSURE A  
DRAINABLE SURFACE AND SEEDING AND  
MULCHING OF THE AREA SHOWN.



**LEGEND:**  
 --- : PROPOSED WATERLINE  
 --- : EX. WL TO BE ABANDONED  
 --- : EX. WL TO REMAIN IN SERVICE

67+72.52  
PAVEMENT TAPER, 20' RT.  
SHOULDER TAPER, 12' RT.

STA. 169+80.98  
BEGIN PAVEMENT TAPER, 44' RT.  
BEGIN SHOULDER TAPER, 54' RT.

(B) - STA. 168+12.52  
END SHOULDER TAPER, 15.33' RT.

(C) - STA. 170+30.98  
END PAVEMENT TAPER, 56' RT.  
END SHOULDER TAPER, 60' RT.

----- PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 104  
 FOR BRENTWOOD EMERGENCY ACCESS, SEE SHEET 465  
 FOR INTERSECTION DETAILS, SEE SHEETS 623  
 FOR DRIVE DETAILS, SEE SHEETS 630-638  
 FOR CULVERT DETAILS, SEE SHEETS 652-655  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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PLAN - S.R. 7  
STA. 159+00 TO STA. 171+00

LAW-7-2.17

1  
103  
1247

**LEGEND:**  
 — : PROPOSED WATERLINE  
 — : EX. WL TO BE ABANDONED  
 — : EX. WL TO REMAIN IN SERVICE

**CURVE DATA**  
 2  
 $\theta_s = 2^\circ 59' 44''$   
 $L_s = 275.00'$   
 $T_s = 703.26'$   
 $LT = 183.36'$   
 $T = 423.13'$   
 $L = 839.08'$   
 $E = 33.82'$   
 $TS STA. 175+03.18$   
 $SC STA. 177+78.18$   
 $ST = 91.69'$   
 $\theta_{max} = 5.51\%$   
 $CS STA. 186+17.26$   
 $ST STA. 188+92.26$

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 106  
 FOR DRIVE DETAILS, SEE SHEETS 630-638  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

(A) - STA. 174+92.52  
 END PAVEMENT TAPER, 8' RT.

(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER

----- - PAVEMENT REMOVED  
 QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 2-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.

■ - PROPOSED PAVEMENT



CALCULATED SLP CHECKED ALB

PLAN - S.R. 7  
 STA. 171+00 TO STA. 183+00

LAW-7-2.17

2  
 105  
 1247

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ROCK CHANNEL PROTECTION,  
 TYPE C WITH FILTER  
 (156' x 12.5' x 1.5' / 27 = 108.33 CY)

2 SEEDING AND EROSION CONTROL  
 EC WITH TURF REINFORCING MAT, TYPE T  
 (250' x 14.5' / 9 = 402.78 SY)

DITCH EROSION PROT  
 (582' x 14.5' / 9 = 9)

Connection at intersection  
 with the existing 4" WL on  
 Woodland Dr. (extends not  
 shown on the ex. sheets)

STA. 171+35, 193' RT.  
 SR 7 CL

STA. 171+36, 197' RT.  
 SR 7 CL

STA. 171+49, 199' RT.  
 SR 7 CL

STA. 176+10, 143' RT.  
 SR 7 CL

STA. 176+23, 146' RT.  
 SR 7 CL

STA. 176+35, 147' RT.  
 SR 7 CL

STA. 176+15, 171' RT.  
 SR 7 CL

STA. 175+85, 178' RT.  
 SR 7 CL

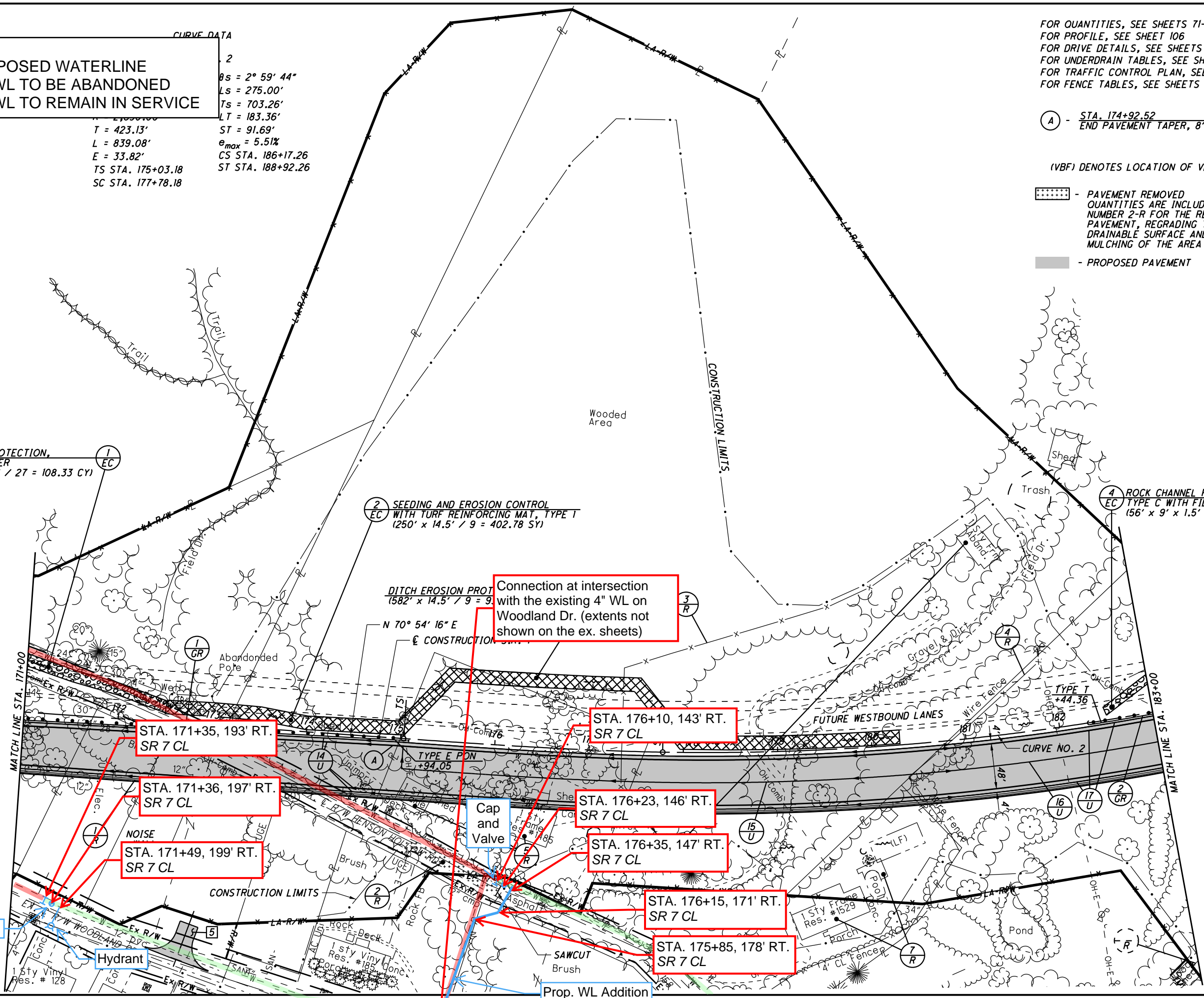
Cap and Valve

Hydrant

Cap and Valve

Prop. WL Addition

(LF) DESIGNATES  
 LEACH FIELD



**LEGEND:**  
 — : PROPOSED WATERLINE  
 — : EX. WL TO BE ABANDONED  
 — : EX. WL TO REMAIN IN SERVICE

CURVE DATA  
 S.R. 7  
 CURVE NO. 2

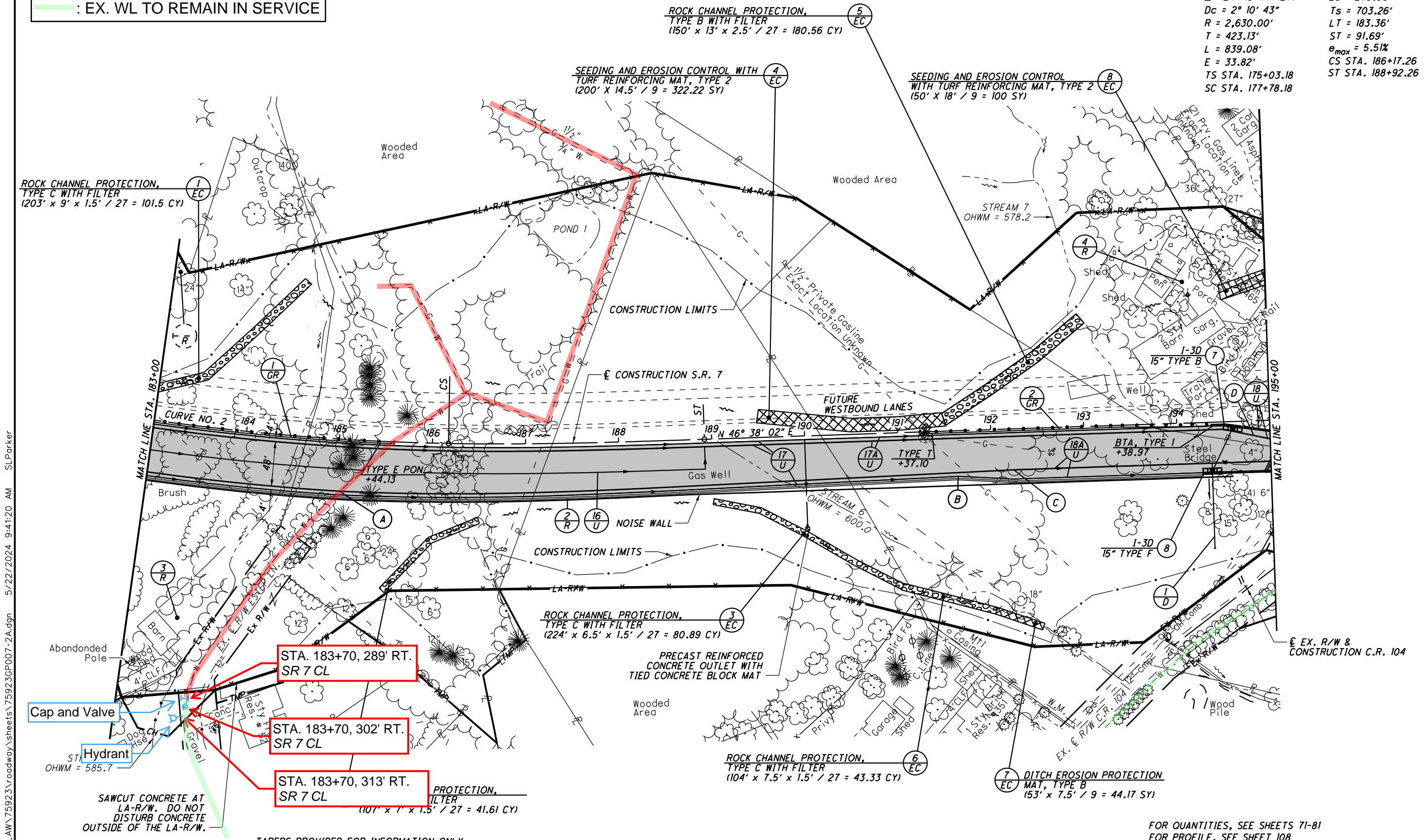
P.I. STA. 182+06.44       $\theta_s = 2^\circ 59' 44''$   
 $\Delta = 24^\circ 16' 14''$  (LT)       $L_s = 275.00'$   
 $D_c = 2^\circ 10' 43''$        $T_s = 703.26'$   
 $R = 2,630.00'$        $L_T = 183.36'$   
 $T = 423.13'$        $ST = 91.69'$   
 $L = 839.08'$        $e_{max} = 5.51\%$   
 $E = 33.82'$        $TS$  STA. 175+03.18  
 $SC$  STA. 177+78.18



PLAN - S.R. 7  
 STA. 183+00 TO STA. 195+00

LAW-7-2.17

3  
 107  
 1247



ROCK CHANNEL PROTECTION,  
 TYPE C WITH FILTER  
 (203' x 9' x 1.5' / 27 = 101.5 CY)

ROCK CHANNEL PROTECTION,  
 TYPE B WITH FILTER  
 (150' x 13' x 2.5' / 27 = 180.56 CY)

SEEDING AND EROSION CONTROL WITH  
 TURF REINFORCING MAT, TYPE 2  
 (200' x 14.5' / 9 = 322.22 SY)

SEEDING AND EROSION CONTROL  
 WITH TURF REINFORCING MAT, TYPE 2  
 (150' x 18' / 9 = 100 SY)

ROCK CHANNEL PROTECTION,  
 TYPE C WITH FILTER  
 (224' x 6.5' x 1.5' / 27 = 80.89 CY)

ROCK CHANNEL PROTECTION,  
 TYPE C WITH FILTER  
 (104' x 7.5' x 1.5' / 27 = 43.33 CY)

DITCH EROSION PROTECTION  
 MAT, TYPE B  
 (53' x 7.5' / 9 = 44.17 SY)

STA. 183+70, 289' RT.  
 SR 7 CL

STA. 183+70, 302' RT.  
 SR 7 CL

STA. 183+70, 313' RT.  
 SR 7 CL

PROTECTION,  
 FILTER  
 (107' x 7' x 1.5' / 27 = 41.61 CY)

Cap and Valve  
 Hydrant  
 OHWM = 585.7

SAWCUT CONCRETE AT  
 LA-R/W. DO NOT  
 DISTURB CONCRETE  
 OUTSIDE OF THE LA-R/W.

TAPERS PROVIDED FOR INFORMATION ONLY

(A) - STA. 185+03.46  
 BEGIN PAVEMENT TAPER, 56' RT.

(B) - STA. 191+63.46  
 BEGIN SHOULDER TAPER, 49' RT.

(C) - STA. 192+23.46  
 END PAVEMENT TAPER, 44' RT.  
 END SHOULDER TAPER, 54' RT.

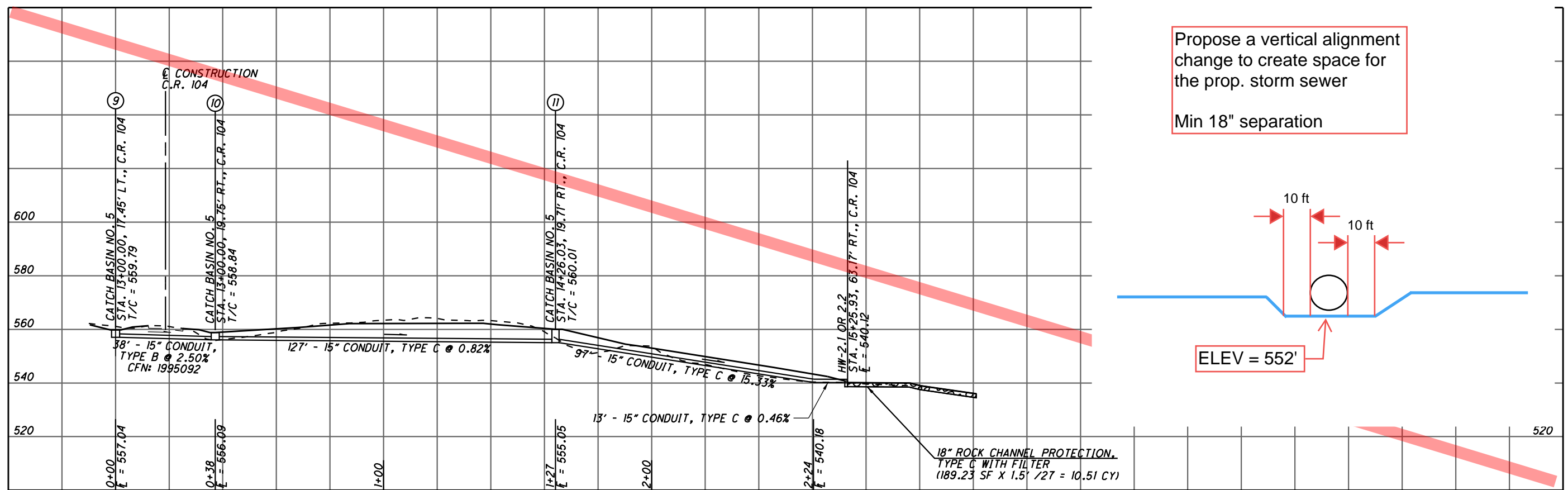
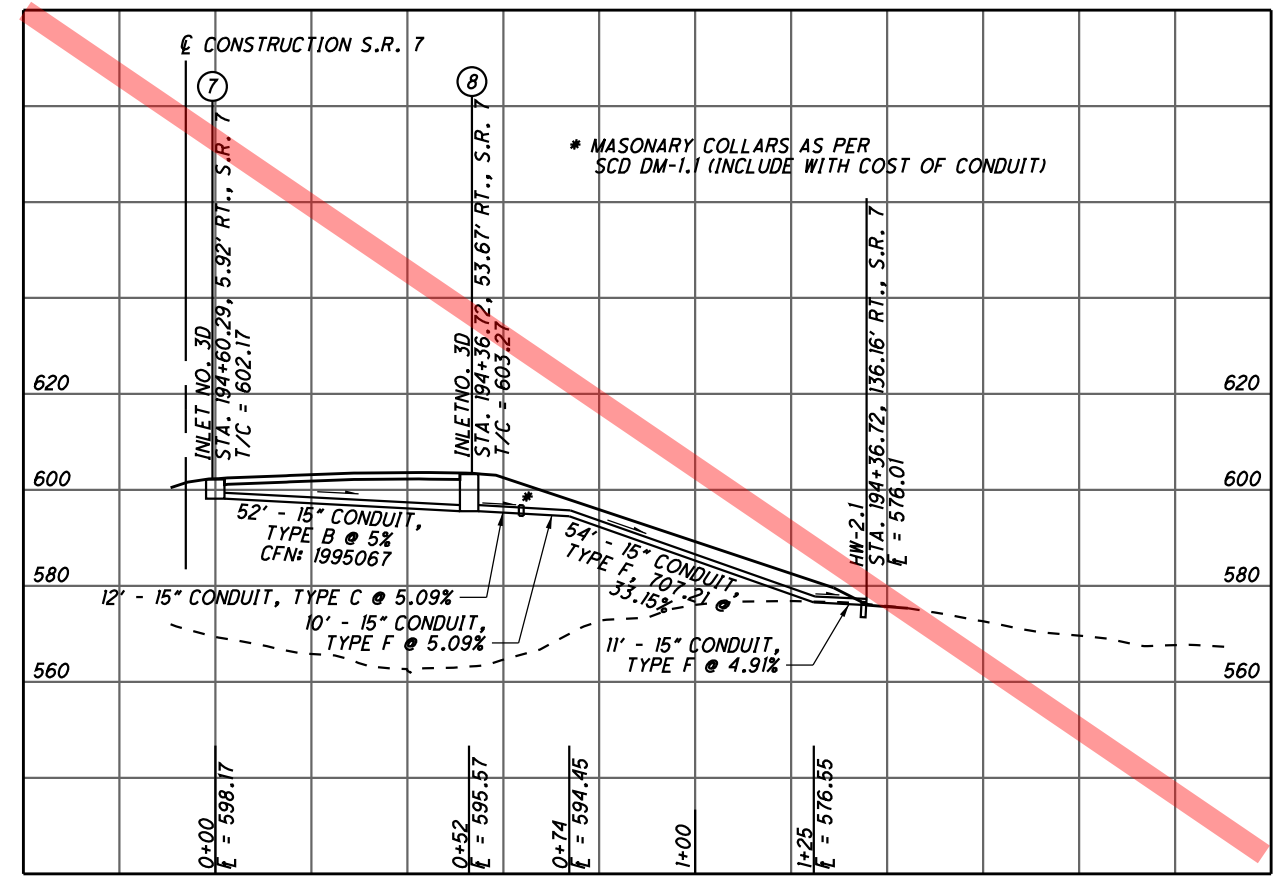
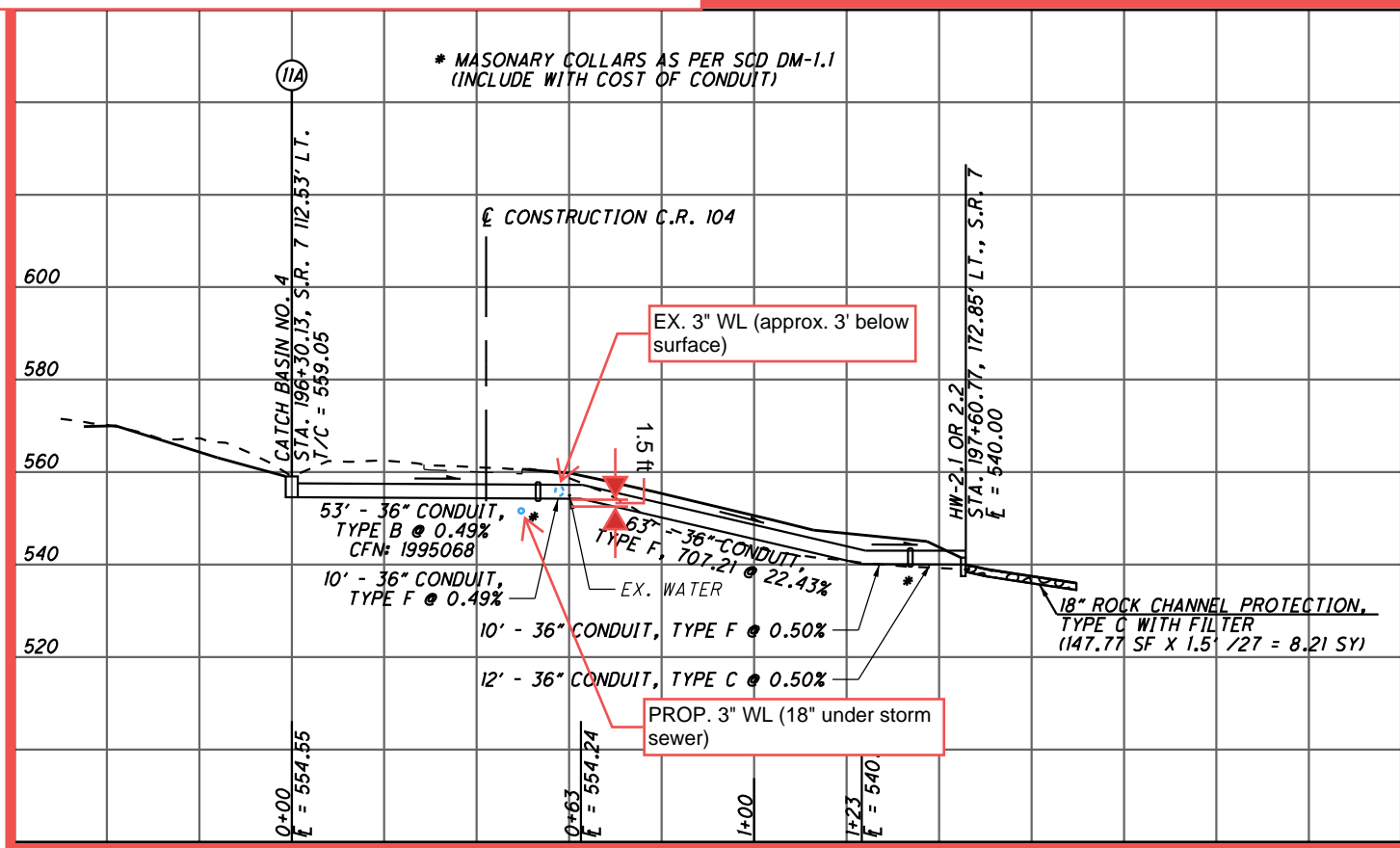
— - PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 108  
 FOR DRIVE DETAILS, SEE SHEETS 630-638  
 FOR STORM SEWER PROFILE, SEE SHEET 640  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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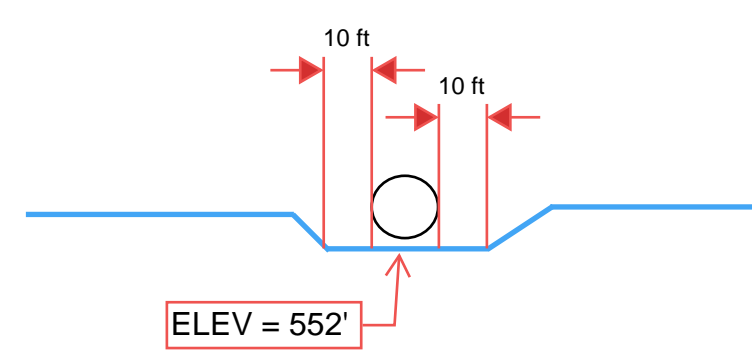


# CR 104 vertical adjustment



Propose a vertical alignment change to create space for the prop. storm sewer

Min 18" separation



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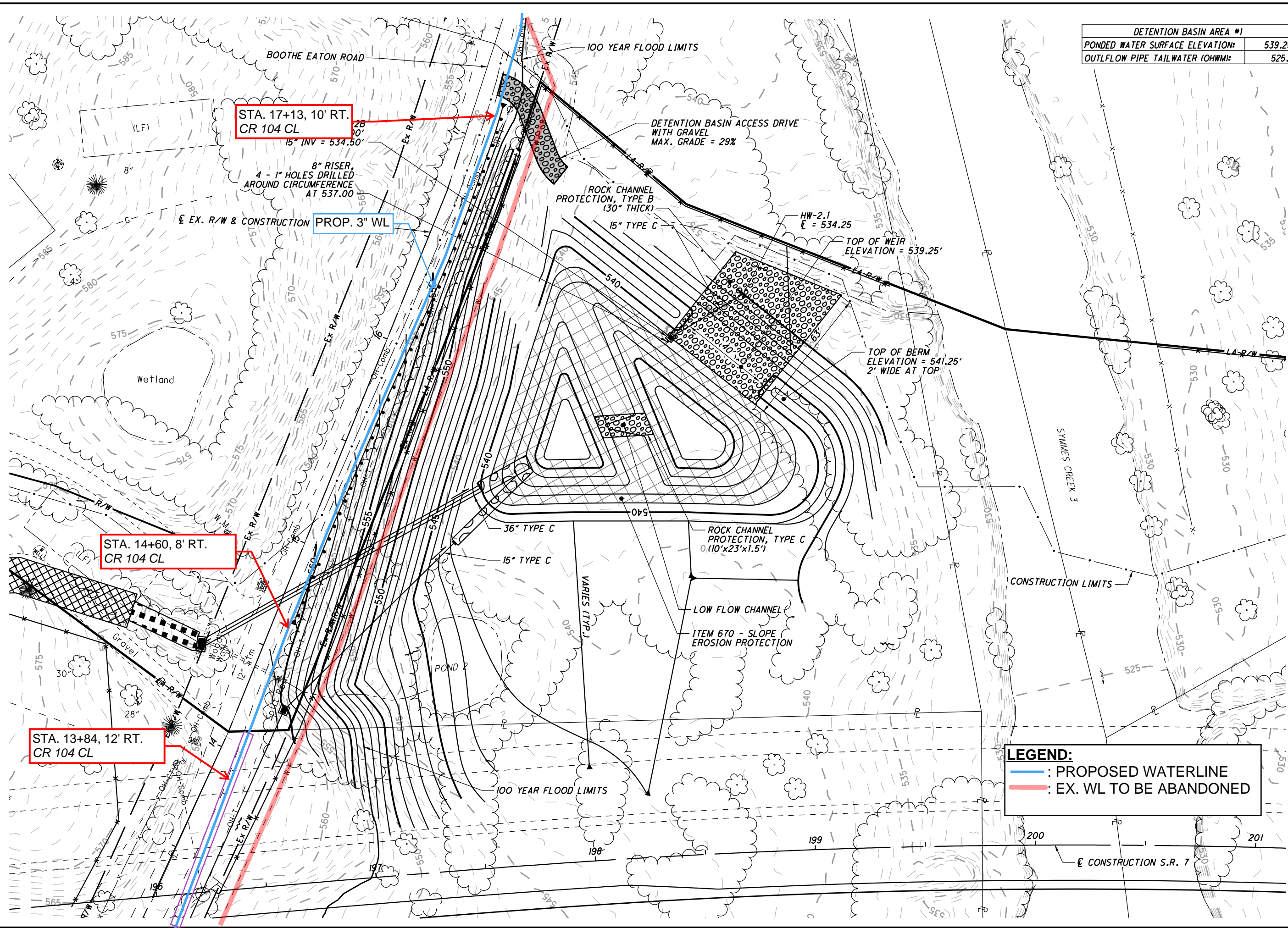
CALCULATED	ALB	CHECKED	TCM
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SCALE IN FEET

0 20 40

STORM SEWER PROFILES

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DETENTION BASIN AREA #1	
PONDED WATER SURFACE ELEVATION:	539.25
OUTFLOW PIPE TAILWATER (OHWM):	525.1

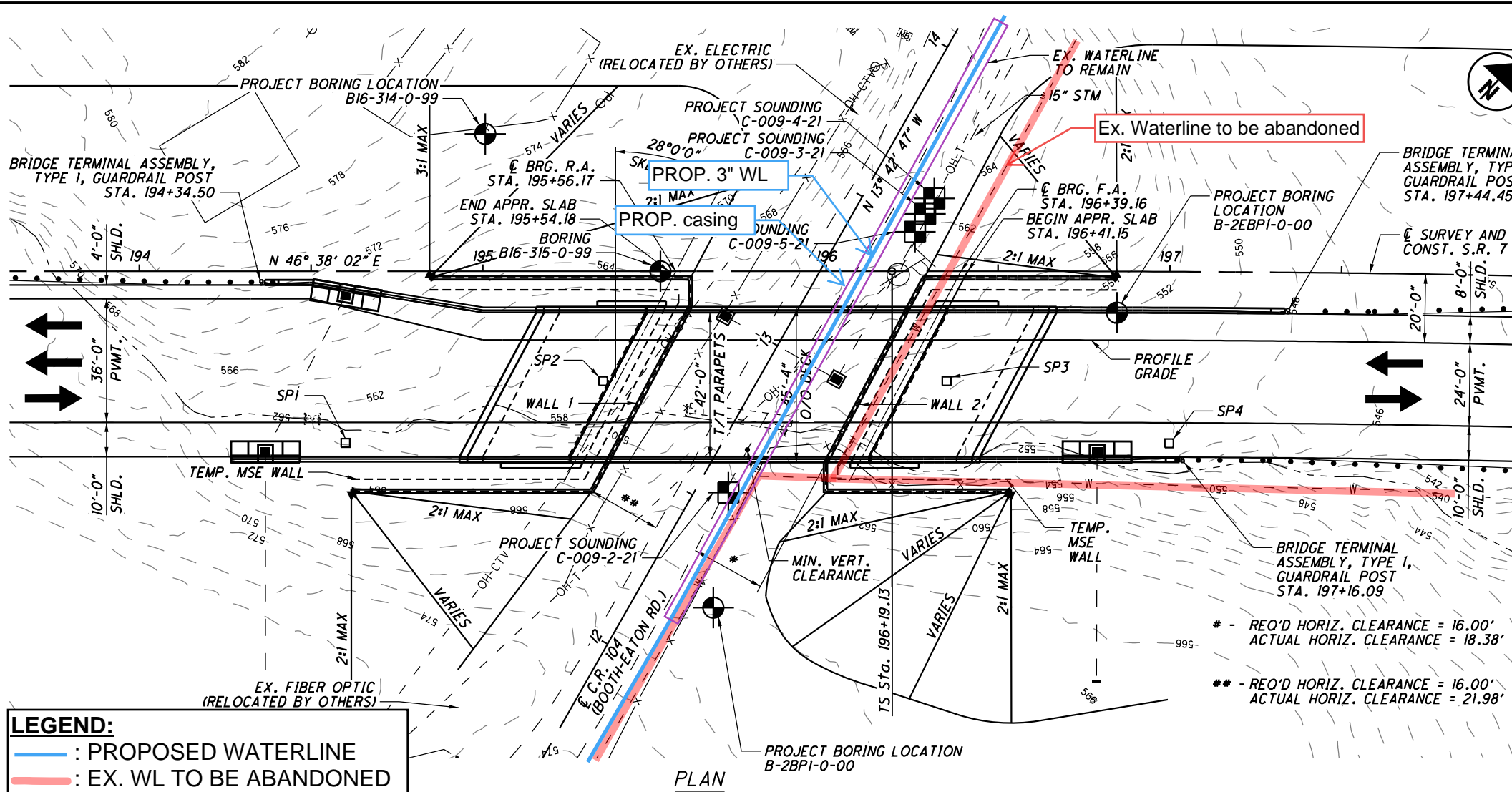
CALCULATED  
EDA  
CHECKED  
ALB

0 20 40  
HORIZONTAL  
SCALE IN FEET

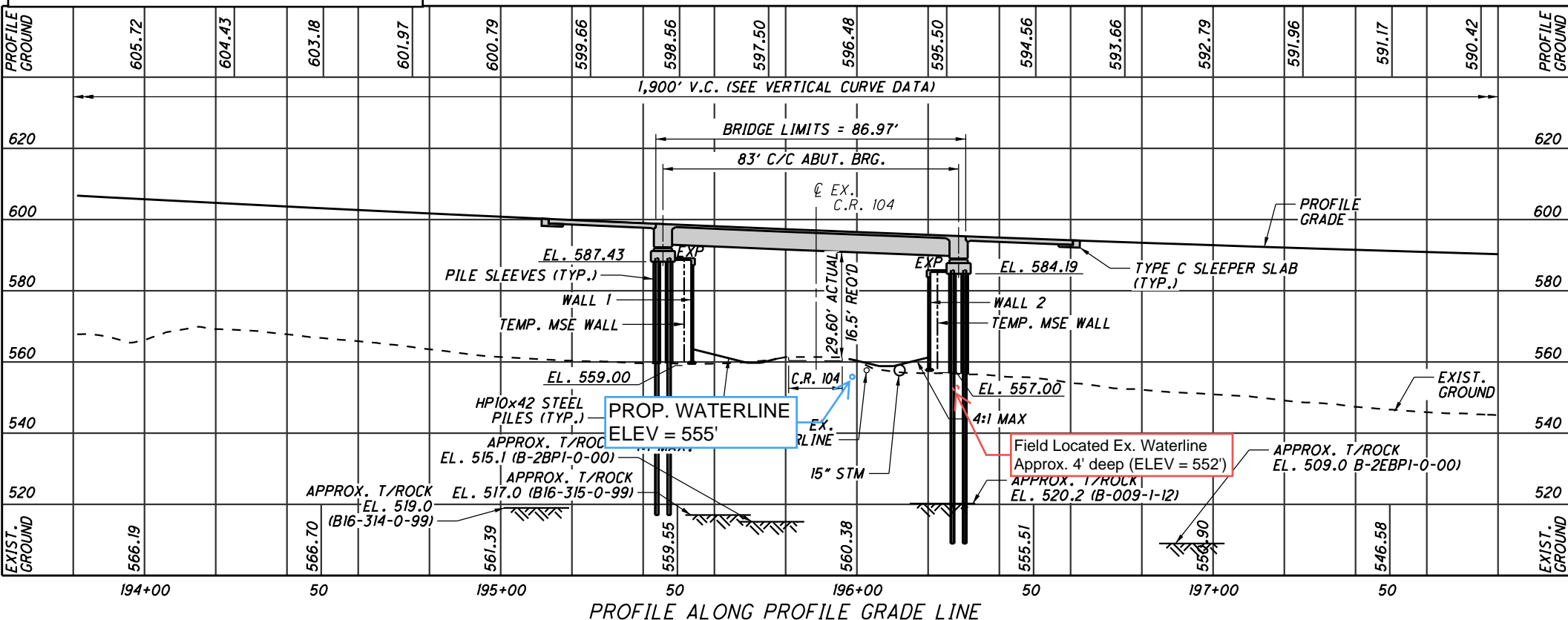
**DRAINAGE DETAILS**  
**DETENTION BASIN #1**

**LEGEND:**

- : PROPOSED WATERLINE
- : EX. WL TO BE ABANDONED



**LEGEND:**  
 — : PROPOSED WATERLINE  
 — : EX. WL TO BE ABANDONED

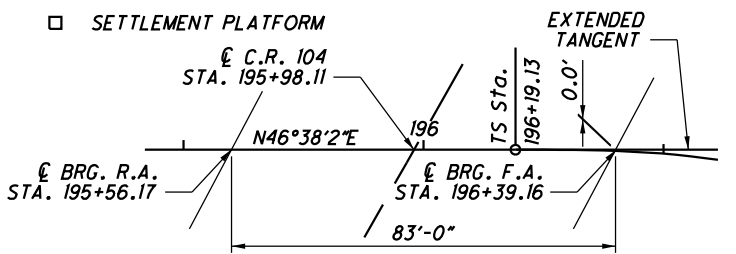


**BENCHMARK DATA**  
 BM #1 STA. 182+35.75, ELEV. 568.32, OFFSET 560.76', RT.  
 BM #2 STA. 207+14.67, ELEV. 575.38, OFFSET 966.60', LT.  
 FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET  
**SCALE: 1IN = 40 FT**

**NOTES**  
 1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.  
 2. FOR PRIMARY PROJECT CONTROL INFORMATION TABLE SEE ROADWAY GENERAL NOTES.  
 3. FOR LIST OF ABBREVIATIONS SEE SHEET 2/28.

**DESIGN TRAFFIC:**  
 2028 ADT = 13,400 2028 ADTT = 1,072  
 2048 ADT = 17,500 2048 ADTT = 1,400  
 DIRECTIONAL DISTRIBUTION = 69/31

**LEGEND**  
 ● PROJECT BORING LOCATION  
 ■ PROJECT CPT SOUNDING LOCATION  
 □ SETTLEMENT PLATFORM



**ESTIMATED PILE LENGTHS**

LOCATION	LENGTH
REAR ABUTMENT	75'
FORWARD ABUTMENT	80'

**VERTICAL CURVE DATA**  
 LENGTH = 1900'  
 PVC STA. = 192+75.00 PVC ELEV. = 612.74  
 PVI STA. = 202+25.00 PVI ELEV. = 555.74  
 PVT STA. = 211+75.00 PVT ELEV. = 609.67  
 G1 = -6.00% G2 = 5.68%

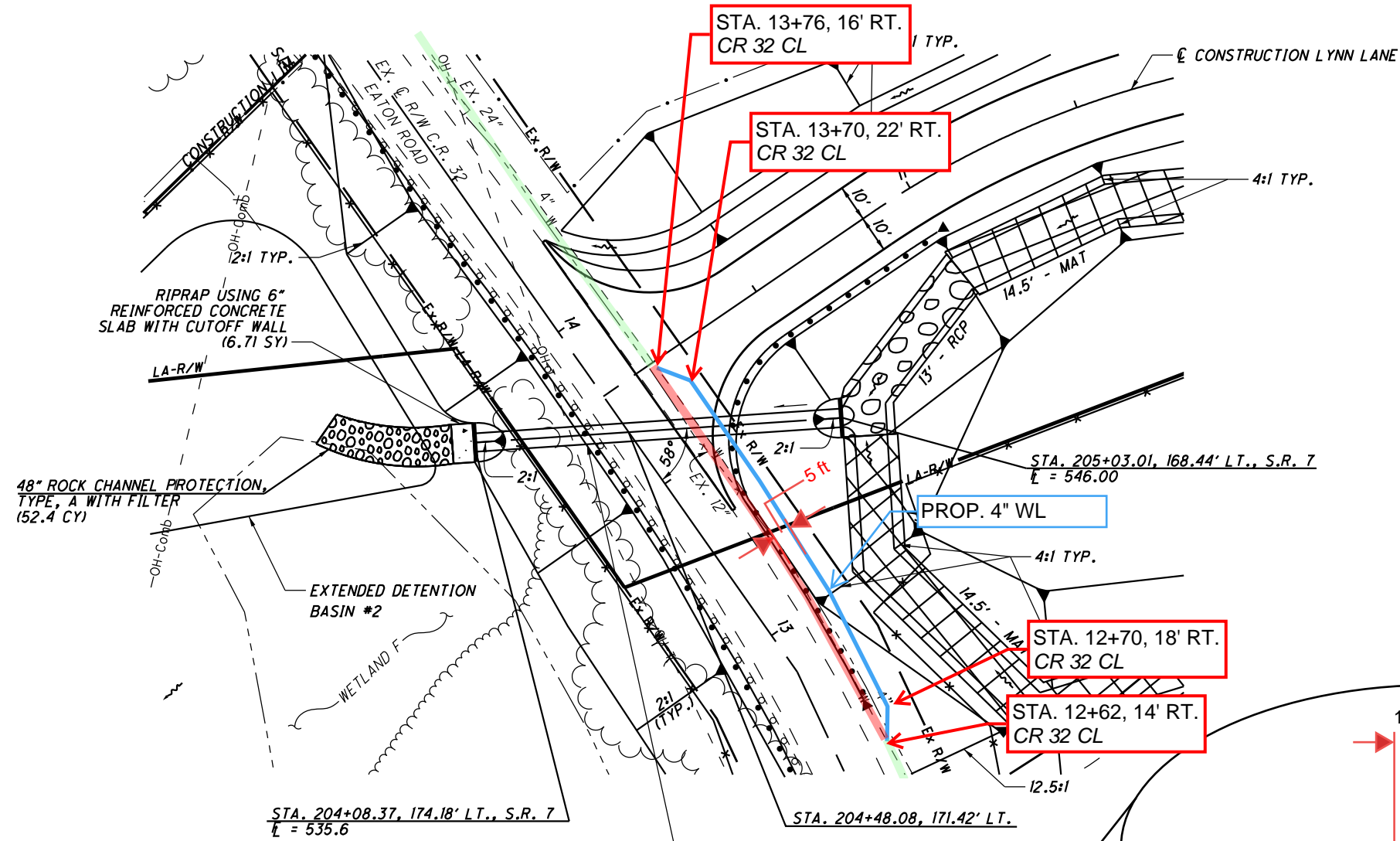
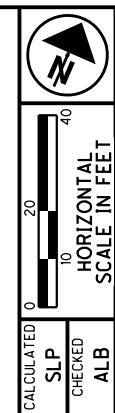
**CURVE (S.R. 7 CURVE NO. 3)**  
 P.I. STA. 205+33.31 E = 70.53' LT = 150.01'  
 $\Delta = 27^\circ 30' 45''$  (RT) TS STA. = 196+19.13 ST = 75.01'  
 Dc = 1° 45' 00" SC STA. = 198+44.13  $e_{max} = 4.60\%$   
 R = 3,274.04' Bs = 1° 58' 07" CS STA. 211+91.27  
 T = 683.24' Ls = 225.00' ST STA. 214+16.27  
 L = 1,347.14' Ts = 914.18'

**PROPOSED STRUCTURE**  
 TYPE: PRESTRESSED CONCRETE I-BEAMS (AASHTO TYPE 4) WITH COMPOSITE CONCRETE SLAB SUPPORTED BY SEMI-INTEGRAL ABUTMENTS ON SLEEVED PILES THROUGH MSE WALL FILL.  
 SPANS: 83'-0" C/C ABUTMENT BEARINGS (MEASURED ALONG EXTENDED TANGENT)  
 ROADWAY: 42'-0" TOE/TOE PARAPET  
 LOADING: HL-93 AND 60 LBS/FT<sup>2</sup> FUTURE WEARING SURFACE  
 WEARING SURFACE: 1" MONOLITHIC WEARING SURFACE  
 SKEW: 28°00'00" LEFT FORWARD  
 APPROACH SLABS: 30'-0" (AS-1-15 & AS-2-15)  
 ALIGNMENT: TANGENT  
 CROWN: VARIES (SEE TRANSITION DIAGRAM)  
 COORDINATES: LATITUDE 38°26'50.63" N  
 LONGITUDE 82°26'09.82" W  
 DECK AREA: 3943 SQ. FT.

DESIGN AGENCY: Stantec Consulting Services Inc.  
 1500 Lake Shore Drive, Suite 100  
 Columbus, Ohio 43224  
 (614) 486-9383  
 DATE: 03/2024  
 REVIEWED: MRS  
 DRAWN: JWS  
 DESIGNED: BSM  
 CHECKED: EDA  
 LAWRENCE COUNTY  
 STA. 195+54.18  
 STA. 196+41.15  
 SITE PLAN  
 BRIDGE NO. LAW-7-0370  
 S.R. 7 OVER C.R. 104 (BOOTHE EATON ROAD)  
 LAW-7-2.17  
 PID No. 75923  
 7  
 817  
 1247

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# CR 32 vertical adjustment



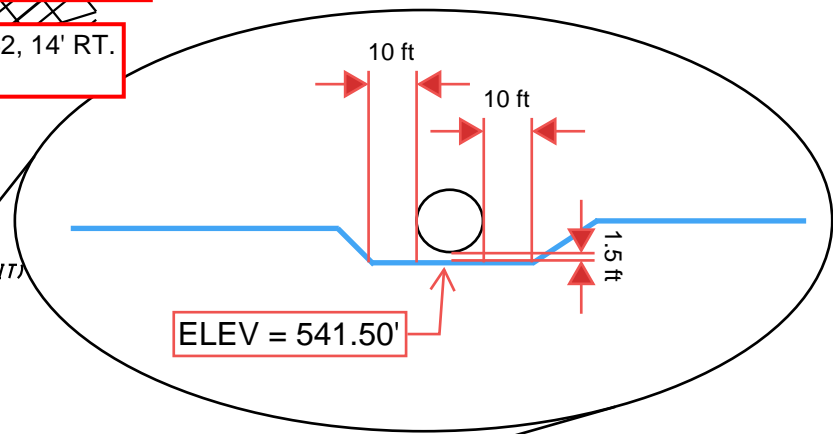
Will need to alter the vertical profile for the ex. waterline to go below the prop. culvert

Propose 45 deg vertical bends to create room for the future culvert.

Maintain min. 18" separation

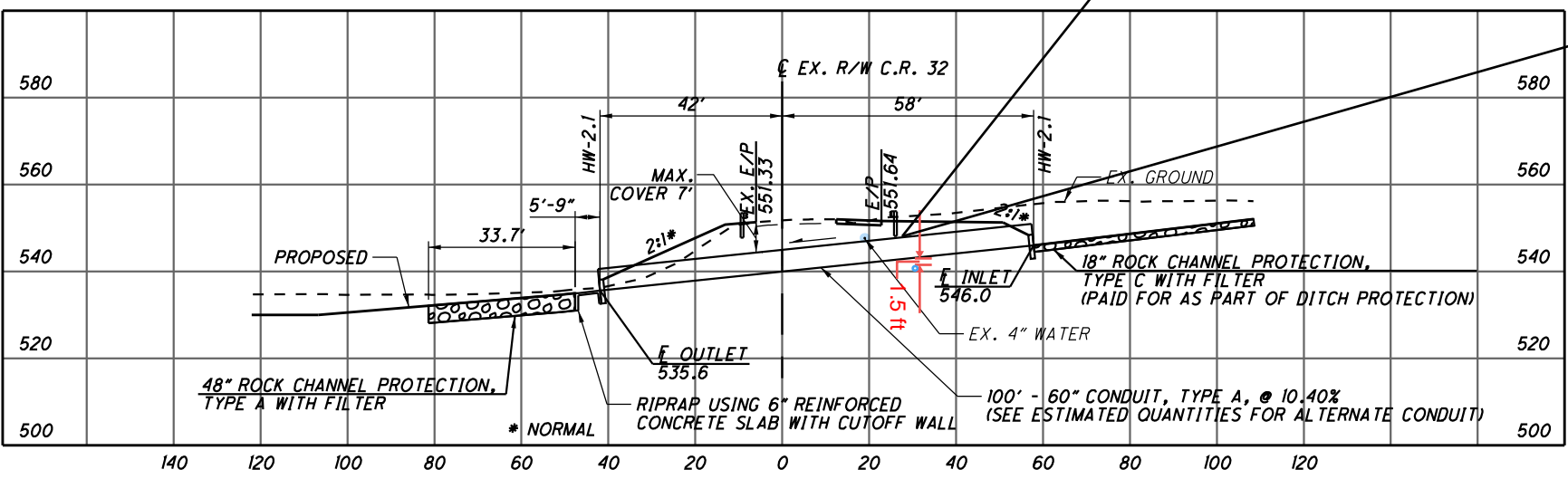
**LEGEND:**

- : PROPOSED WATERLINE
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE



HYDRAULIC DATA	
DRAINAGE AREA	= 29 AC.
O25	= 92 CFS
O100	= 125 CFS
25V	= 16.6 FPS
100V	= 18.1 FPS
25 HW	= 550.1
100 HW	= 551.1
OHWMi	= 547.9
OHWmo	= 536.2
pH	= 7.6
DESIGN SERVICE LIFE	= 75 YEARS
ABRASION LEVEL	= 1
CFN	= 1995094

100' - 60" CONDUIT, TYPE A @ 10.40%  
(SEE ESTIMATED QUANTITIES FOR ALTERNATE CONDUIT)



ESTIMATE QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
601	6.71	SY	RIPRAP, TYPE D
601	52.4	CY	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER
602	3.56	CY	CONCRETE MASONRY
611	100	FT	60" CONDUIT, TYPE A 707.02 (0.218) GALVANIZED OR 707.02 (0.064) ALUMINIZED OR 707.33

QUANTITIES CARRIED TO SUBSUMMARY SHEETS 79-80

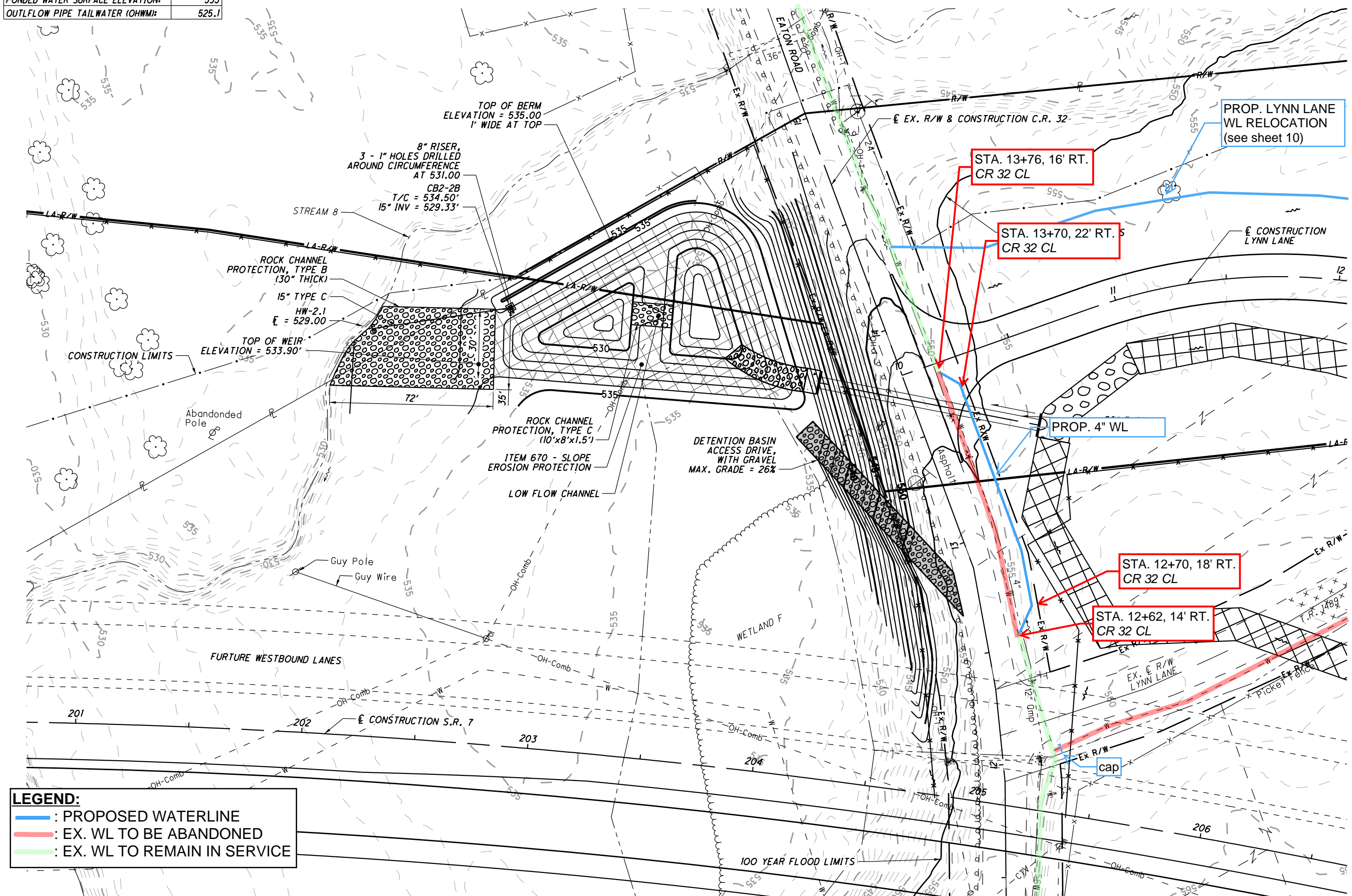
CULVERT DETAIL  
S.R. 7 STA. 204+48.08

LAW - 7 - 2.17

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DETENTION BASIN AREA #2	
PONDED WATER SURFACE ELEVATION:	535
OUTFLOW PIPE TAILWATER (OHWM):	525.1



**LEGEND:**

<span style="color: blue;">—</span>	: PROPOSED WATERLINE
<span style="color: red;">—</span>	: EX. WL TO BE ABANDONED
<span style="color: green;">—</span>	: EX. WL TO REMAIN IN SERVICE

CALCULATED  
EDA  
CHECKED  
ALB

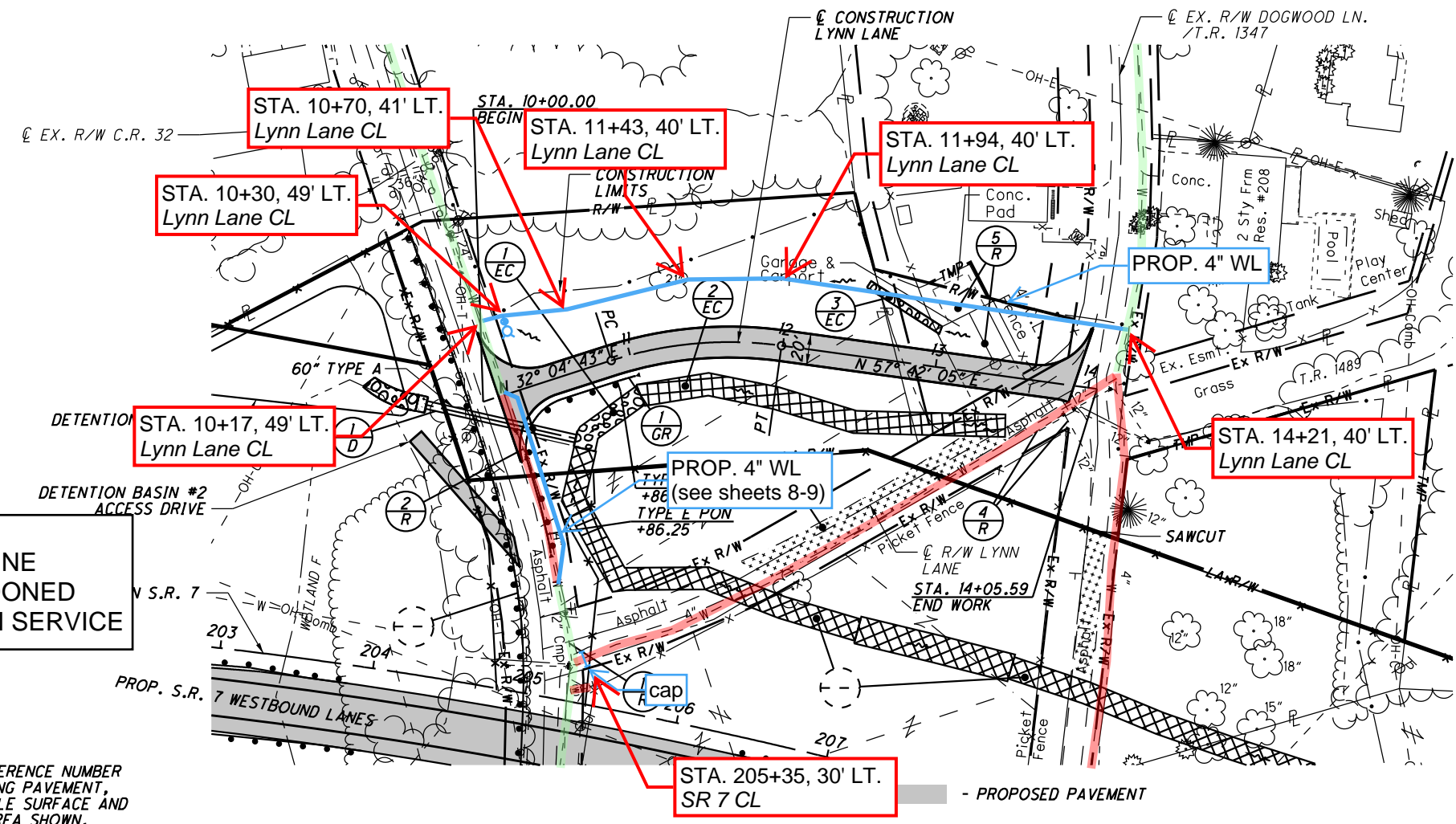
0 25 50 100  
HORIZONTAL  
SCALE IN FEET

**DRAINAGE DETAILS  
DETENTION BASIN #2**

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# Lynn Lane WL Relocation

**CURVE DATA  
LYNN LANE**  
 P.I. STA. 11+44.17  
 $\Delta = 25^\circ 37' 23" (RT)$   
 $D_c = 22^\circ 55' 06"$   
 $R = 250.00'$   
 $T = 56.85'$   
 $L = 111.80'$   
 $E = 6.38'$   
 $e_{max} (N.D.C.) = 8.00\%$   
 $e_{max} = NC$   
 PC STA. 10+87.32  
 PT STA. 11+99.12

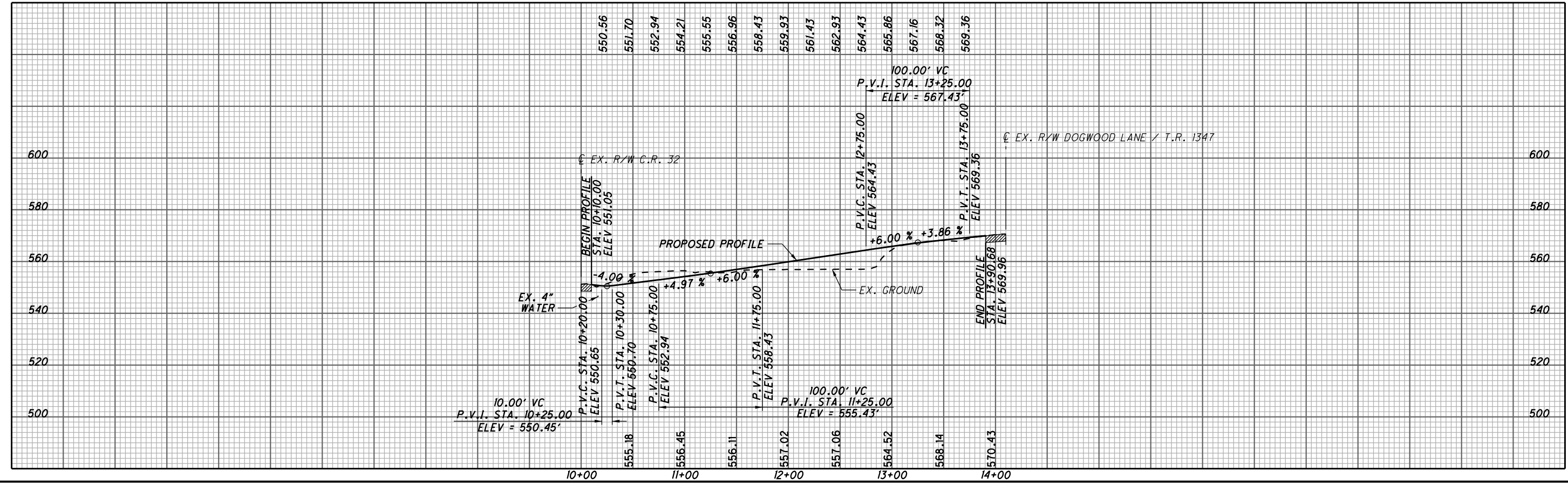


**LEGEND:**  
— : PROPOSED WATERLINE  
— : EX. WL TO BE ABANDONED  
— : EX. WL TO REMAIN IN SERVICE

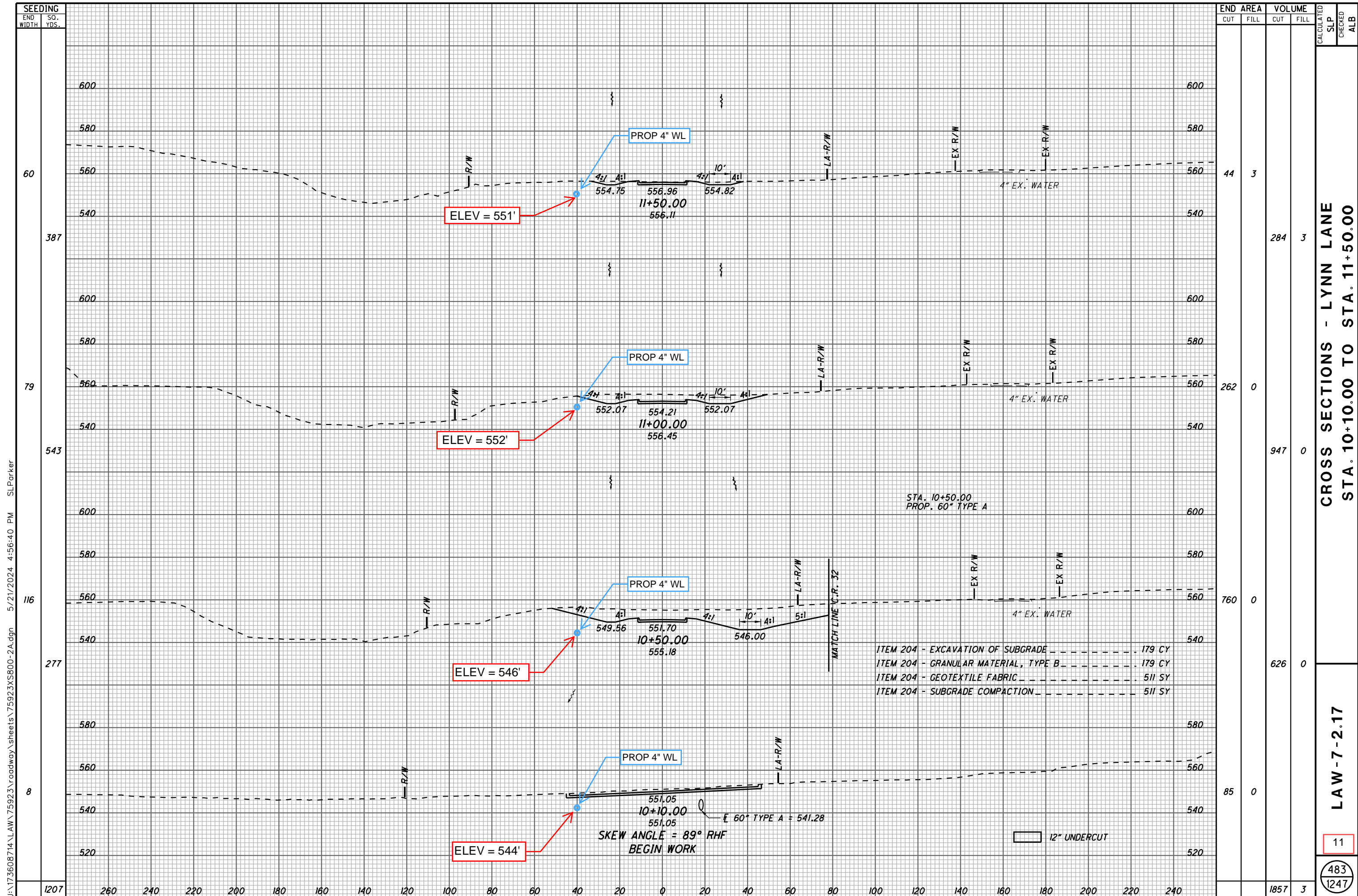
- INCLUDES 50' OF 34" RADIUS SHOP CURVED GUARDRAIL  
 - PAVEMENT REMOVED  
 QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 3-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.

- ROCK CHANNEL PROTECTION**  
 TYPE C WITH FILTER  
 (691 SF x 1.5' / 27 = 38.39 CY)
- SEEDING AND EROSION CONTROL**  
 WITH TURF REINFORCING MAT, TYPE T  
 (240' x 14.5' / 9 = 386.67 SY)
- ROCK CHANNEL PROTECTION,**  
 TYPE C WITH FILTER  
 (55' x 5' x 1.5' / 27 = 15.28 CY)

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 109-112  
 FOR INTERSECTION DETAILS, SEE SHEET 624  
 FOR CULVERT DETAILS, SEE SHEET 657  
 FOR DETENTION BASIN DETAILS, SEE SHEETS 666 & 671  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041



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SEEDING	END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL	CUT	FILL		
60	44	3	284	3		
79	262	0	947	0		
116	760	0	626	0		
277	85	0	1857	3		
1207						

CROSS SECTIONS - LYNN LANE  
 STA. 10+10.00 TO STA. 11+50.00

LAW - 7 - 2.17

11  
 483  
 1247

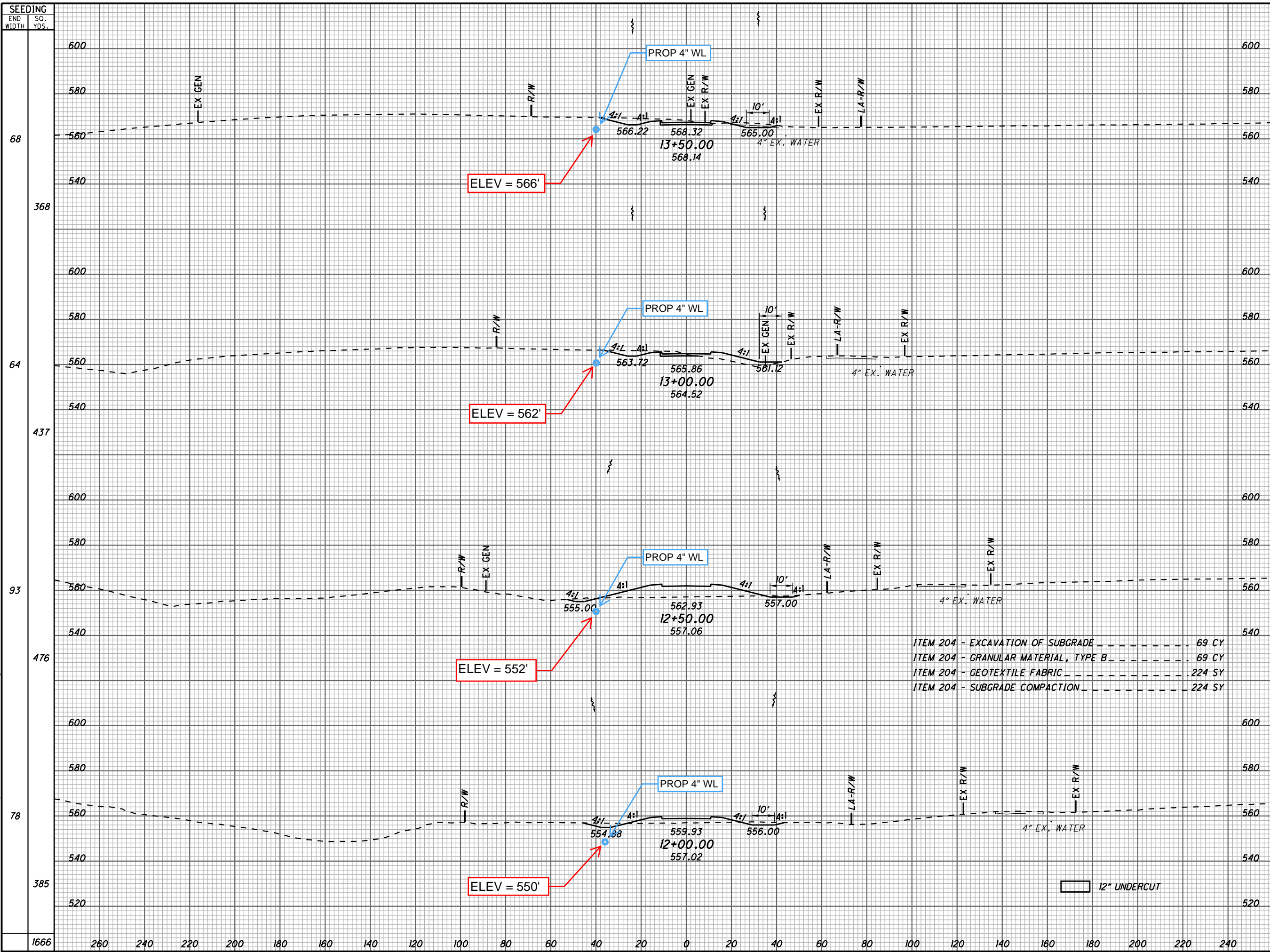
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- ITEM 204 - EXCAVATION OF SUBGRADE ----- 179 CY
- ITEM 204 - GRANULAR MATERIAL, TYPE B ----- 179 CY
- ITEM 204 - GEOTEXTILE FABRIC ----- 511 SY
- ITEM 204 - SUBGRADE COMPACTION ----- 511 SY

60° TYPE A = 541.28  
 SKEW ANGLE = 89° RHF  
 BEGIN WORK

12" UNDERCUT

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SEEDING END WIDTH SO. YDS.	END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL	CUT	FILL		
68	75	7				
368			112	84		
64	45	83				
437			58	326		
93	18	269				
476			55	333		
78	41	90				
385			79	86		
1666			304	829		

- ITEM 204 - EXCAVATION OF SUBGRADE ----- 69 CY
- ITEM 204 - GRANULAR MATERIAL, TYPE B ----- 69 CY
- ITEM 204 - GEOTEXTILE FABRIC ----- 224 SY
- ITEM 204 - SUBGRADE COMPACTION ----- 224 SY

**CROSS SECTIONS - LYNN LANE  
STA. 12+00.00 TO STA. 13+50.00**

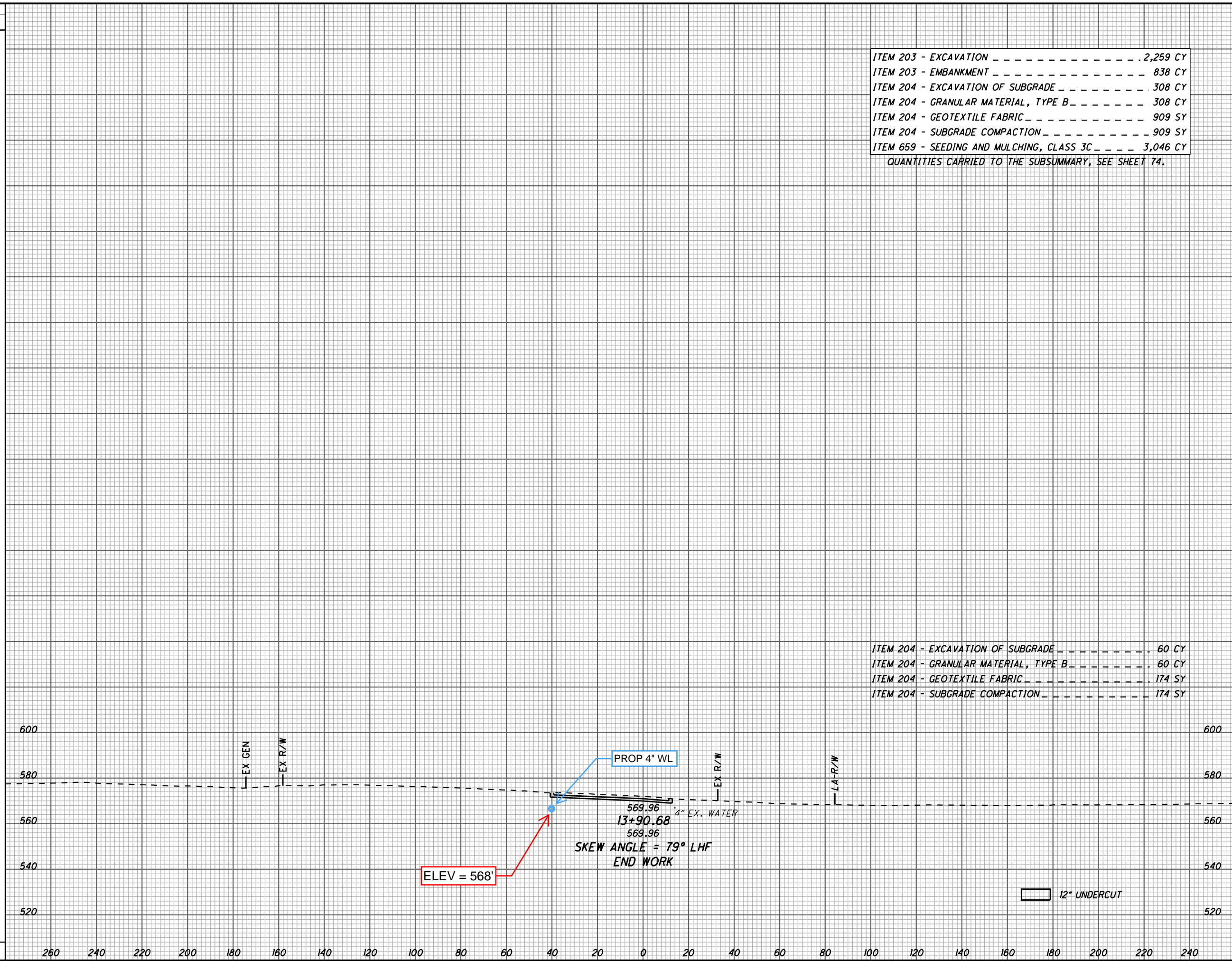
**LAW - 7 - 2.17**

12

484  
1247

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SEEDING	
END WIDTH	SO. YDS.
173	173



ITEM 203 - EXCAVATION	2,259 CY
ITEM 203 - EMBANKMENT	838 CY
ITEM 204 - EXCAVATION OF SUBGRADE	308 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	308 CY
ITEM 204 - GEOTEXTILE FABRIC	909 SY
ITEM 204 - SUBGRADE COMPACTION	909 SY
ITEM 659 - SEEDING AND MULCHING, CLASS 3C	3,046 CY

QUANTITIES CARRIED TO THE SUBSUMMARY, SEE SHEET 74.

ITEM 204 - EXCAVATION OF SUBGRADE	60 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	60 CY
ITEM 204 - GEOTEXTILE FABRIC	174 SY
ITEM 204 - SUBGRADE COMPACTION	174 SY

END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
CUT	FILL	CUT	FILL		
55	0	98	6		
98	6	98	6		

**CROSS SECTIONS - LYNN LANE**  
STA. 13+90.68

**LAW - 7 - 2.17**

13

(485)  
1247

**CURVE DATA**  
S.R. 7  
CURVE NO. 3

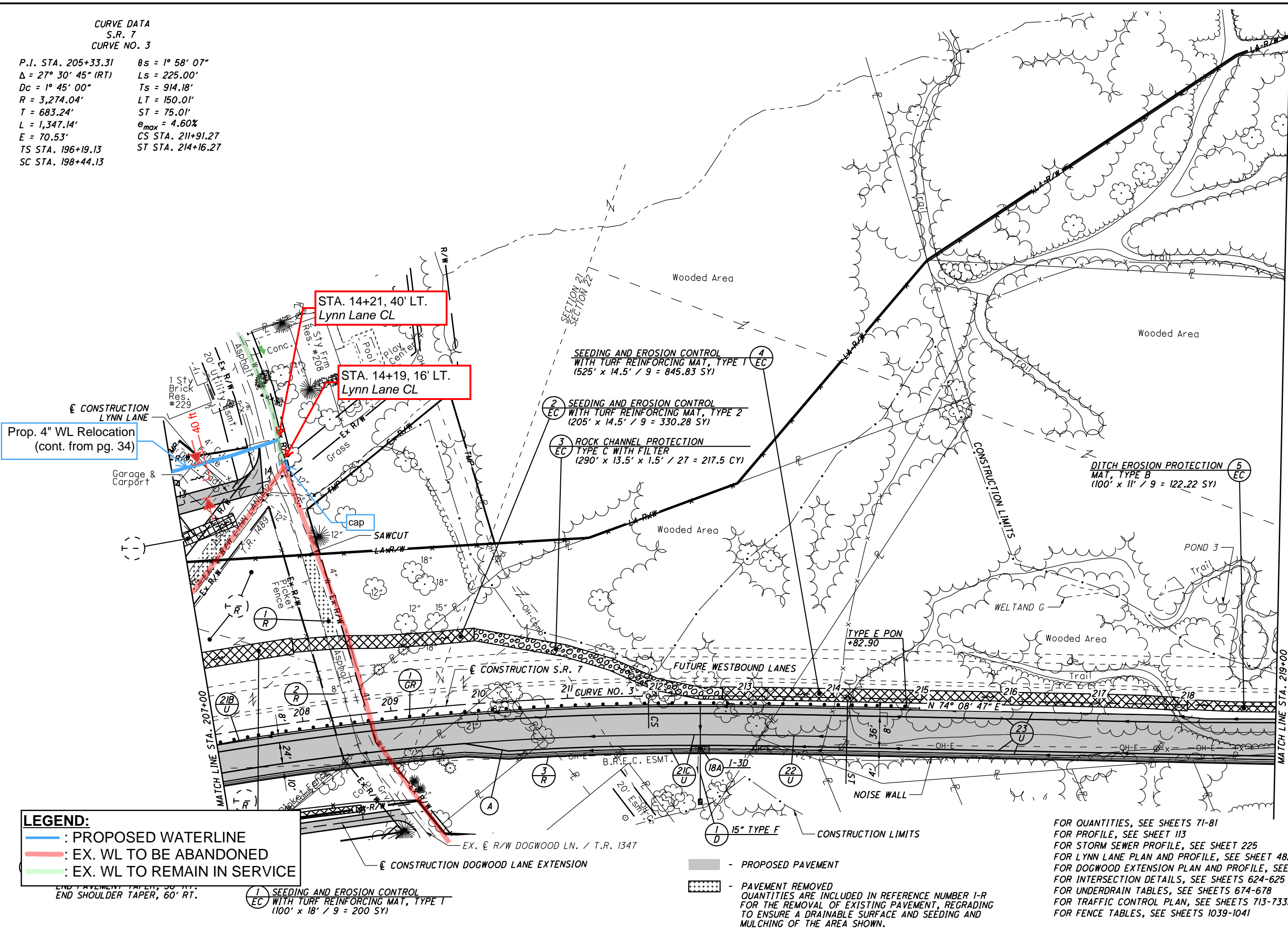
P.I. STA. 205+33.31  $\theta_s = 1^\circ 58' 07''$   
 $\Delta = 27^\circ 30' 45''$  (RT)  $L_s = 225.00'$   
 $D_c = 1^\circ 45' 00''$   $T_s = 914.18'$   
 $R = 3,274.04'$   $LT = 150.01'$   
 $T = 683.24'$   $ST = 75.01'$   
 $L = 1,347.14'$   $e_{max} = 4.60\%$   
 $E = 70.53'$  **CS STA. 211+91.27**  
**TS STA. 196+19.13** **ST STA. 214+16.27**  
**SC STA. 198+44.13**



**PLAN - S.R. 7**  
**STA. 207+00 TO STA. 219+00 (NORTH)**

**LAW-7-2.17**  
14  
111  
1247

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**LEGEND:**  
— : PROPOSED WATERLINE  
— : EX. WL TO BE ABANDONED  
— : EX. WL TO REMAIN IN SERVICE

END PAVEMENT TAPEL, 36' RT.  
END SHOULDER TAPER, 60' RT.

(1) SEEDING AND EROSION CONTROL  
EC WITH TURF REINFORCING MAT, TYPE I  
(100' x 18' / 9 = 200 SY)

— PROPOSED PAVEMENT

▨ PAVEMENT REMOVED  
QUANTITIES ARE INCLUDED IN REFERENCE NUMBER I-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 113  
 FOR STORM SEWER PROFILE, SEE SHEET 225  
 FOR LYNN LANE PLAN AND PROFILE, SEE SHEET 482  
 FOR DOGWOOD EXTENSION PLAN AND PROFILE, SEE SHEET 486  
 FOR INTERSECTION DETAILS, SEE SHEETS 624-625  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

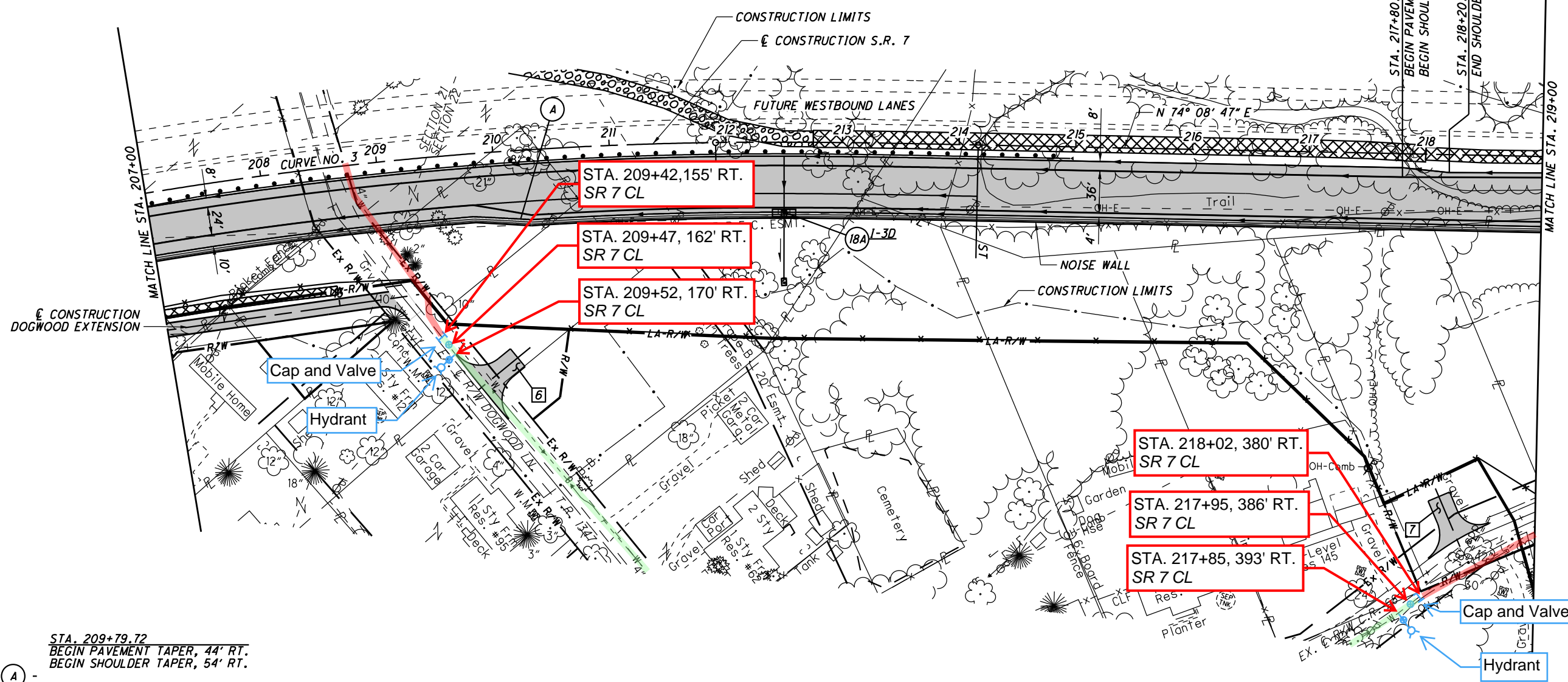
CURVE DATA  
S.R. 7  
CURVE NO. 3

P.I. STA. 205+33.31  $\theta_s = 1^\circ 58' 07''$   
 $\Delta = 27^\circ 30' 45''$  (RT)  $L_s = 225.00'$   
 $D_c = 1^\circ 45' 00''$   $T_s = 914.18'$   
 $R = 3,274.04'$   $LT = 150.01'$   
 $T = 683.24'$   $ST = 75.01'$   
 $L = 1,347.14'$   $e_{max} = 4.60\%$   
 $E = 70.53'$   $CS$  STA. 211+91.27  
 $TS$  STA. 196+19.13  $ST$  STA. 214+16.27  
 $SC$  STA. 198+44.13

CALCULATED SLP CHECKED ALB

0 50 100  
25  
HORIZONTAL SCALE IN FEET

PLAN - S.R. 7  
STA. 207+00 TO STA. 219+00 (SOUTH)



STA. 209+79.72  
BEGIN PAVEMENT TAPER, 44' RT.  
BEGIN SHOULDER TAPER, 54' RT.

STA. 210+29.72  
END PAVEMENT TAPER, 56' RT.  
END SHOULDER TAPER, 60' RT.

**LEGEND:**

- : PROPOSED WATERLINE
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE

■ - PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 113  
 FOR STORM SEWER PROFILE, SEE SHEET 225  
 FOR LYNN LANE PLAN AND PROFILE, SEE SHEET 482  
 FOR DOGWOOD EXTENSION PLAN AND PROFILE, SEE SHEET 486  
 FOR INTERSECTION DETAILS, SEE SHEETS 624-625  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

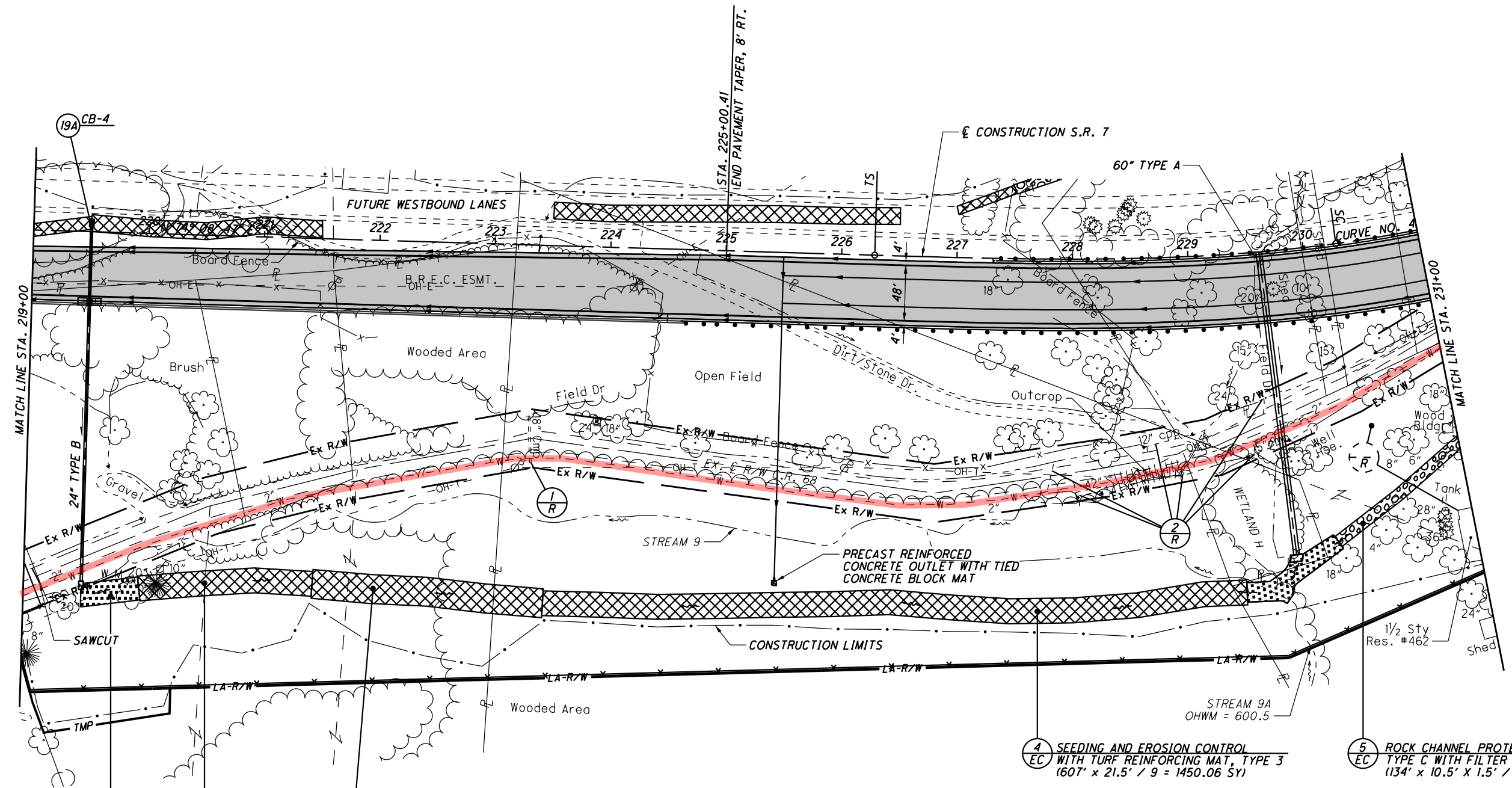
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CURVE DATA  
S.R. 7  
CURVE NO. 4

P.I. STA. 232+01.52       $\theta_s = 9^\circ 30' 00''$   
 $\Delta = 34^\circ 12' 59''$  (LT)       $L_s = 400.00'$   
 $D_c = 4^\circ 45' 00''$        $T_s = 572.79'$   
 $R = 1,206.23'$        $LT = 267.05'$   
 $T = 161.12'$        $ST = 133.68'$   
 $L = 320.35'$        $e_{max} = 8.00\%$   
 $E = 10.71'$       CS STA. 233+49.08  
 TS STA. 226+28.73      ST STA. 237+49.08  
 SC STA. 230+28.73



**LEGEND:**  
 : EX. WL TO BE ABANDONED



1 EC ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (150' x 20' / 9 = 111.11 SY)

3 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (200' x 25' / 9 = 555.56 SY)

2 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (151' x 21.5' / 9 = 360.72 SY)

4 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (607' x 21.5' / 9 = 1450.06 SY)

5 EC ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (134' x 10.5' x 1.5' / 27 = 78.17 CY)

- PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 116  
 FOR STORM SEWER PROFILE, SEE SHEET 231  
 FOR CULVERT DETAILS, SEE SHEETS 658  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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PLAN - S.R. 7  
 STA. 219+00 TO STA. 231+00 (SOUTH)

LAW-7-2.17

16  
 115  
 1247



CURVE DATA  
S.R. 7  
CURVE NO. 4

P.I. STA. 232+01.52     $\theta_s = 9^\circ 30' 00''$   
 $\Delta = 34^\circ 12' 59''$  (LT)     $L_s = 400.00'$   
 $D_c = 4^\circ 45' 00''$      $T_s = 572.79'$   
 $R = 1,206.23'$      $LT = 267.05'$   
 $T = 161.12'$      $ST = 133.68'$   
 $L = 320.35'$      $e_{max} = 8.00\%$   
 $E = 10.71'$     CS STA. 233+49.08  
 TS STA. 226+28.73    ST STA. 237+49.08  
 SC STA. 230+28.73

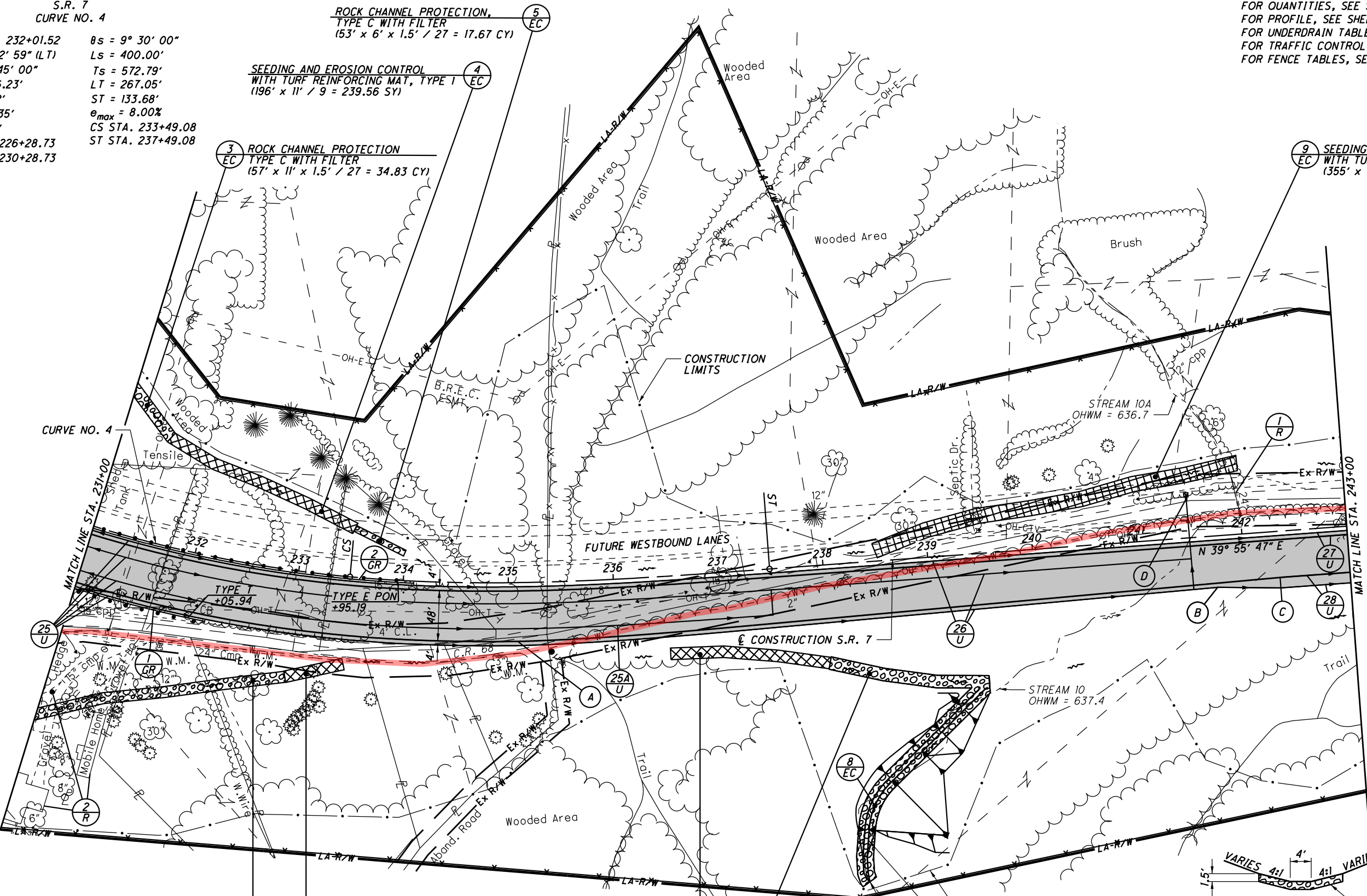
ROCK CHANNEL PROTECTION,  
TYPE C WITH FILTER  
(53' x 6' x 1.5' / 27 = 17.67 CY)

SEEDING AND EROSION CONTROL  
WITH TURF REINFORCING MAT, TYPE 1  
(196' x 11' / 9 = 239.56 SY)

ROCK CHANNEL PROTECTION  
TYPE C WITH FILTER  
(57' x 11' x 1.5' / 27 = 34.83 CY)

SEEDING AND EROSION CONTROL  
WITH TURF REINFORCING MAT, TYPE 2  
(355' x 14.5' / 9 = 571.94 SY)

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 118  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041



ROCK CHANNEL PROTECTION,  
TYPE C WITH FILTER  
(243' x 10.5' x 1.5' / 27 = 141.75 CY)

DITCH EROSION PROTECTION  
MAT, TYPE B  
(57' x 11' / 9 = 69.67 SY)

DITCH EROSION PROTECTION  
MAT, TYPE B  
(153' x 11' / 9 = 187 SY)

ROCK CHANNEL PROTECTION,  
TYPE C WITH FILTER  
(152' x 12' x 1.5' / 27 = 101.33 CY)

**LEGEND:**  
 ——— : EX. WL TO BE ABANDONED  
 ■■■■■ : PROPOSED PAVEMENT

DITCH TYPICAL SECTION

CONTRACTOR TO FILL AND REGRADE THE EXISTING CHANNEL TO TIE INTO THE PROPOSED ROADSIDE DITCH USING THE TYPICAL SECTION ABOVE. THE FOLLOWING QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 8-EC TO COMPLETE THIS WORK.

ITEM 203 - EXCAVATION	5 CY
ITEM 203 - EMBANKMENT	1932 CY
ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	203 CY
ITEM 659 - SEEDING AND MULCHING	1100 SY

(A) - STA. 235+13.20  
BEGIN PAVEMENT TAPER, 56' RT.

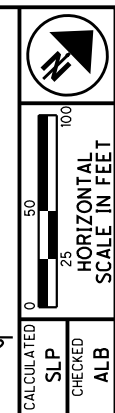
(C) - STA. 242+33.20  
END PAVEMENT TAPER, 44' RT.  
END SHOULDER TAPER, 54' RT.

(B) - STA. 241+73.20  
BEGIN SHOULDER TAPER, 49' RT.

(D) - PRECAST REINFORCED OUTLET WITH  
TIED CONCRETE BLOCK MAT

(LF) DESIGNATES  
LEACH FIELD

■ ■ ■ ■ ■ - PROPOSED PAVEMENT



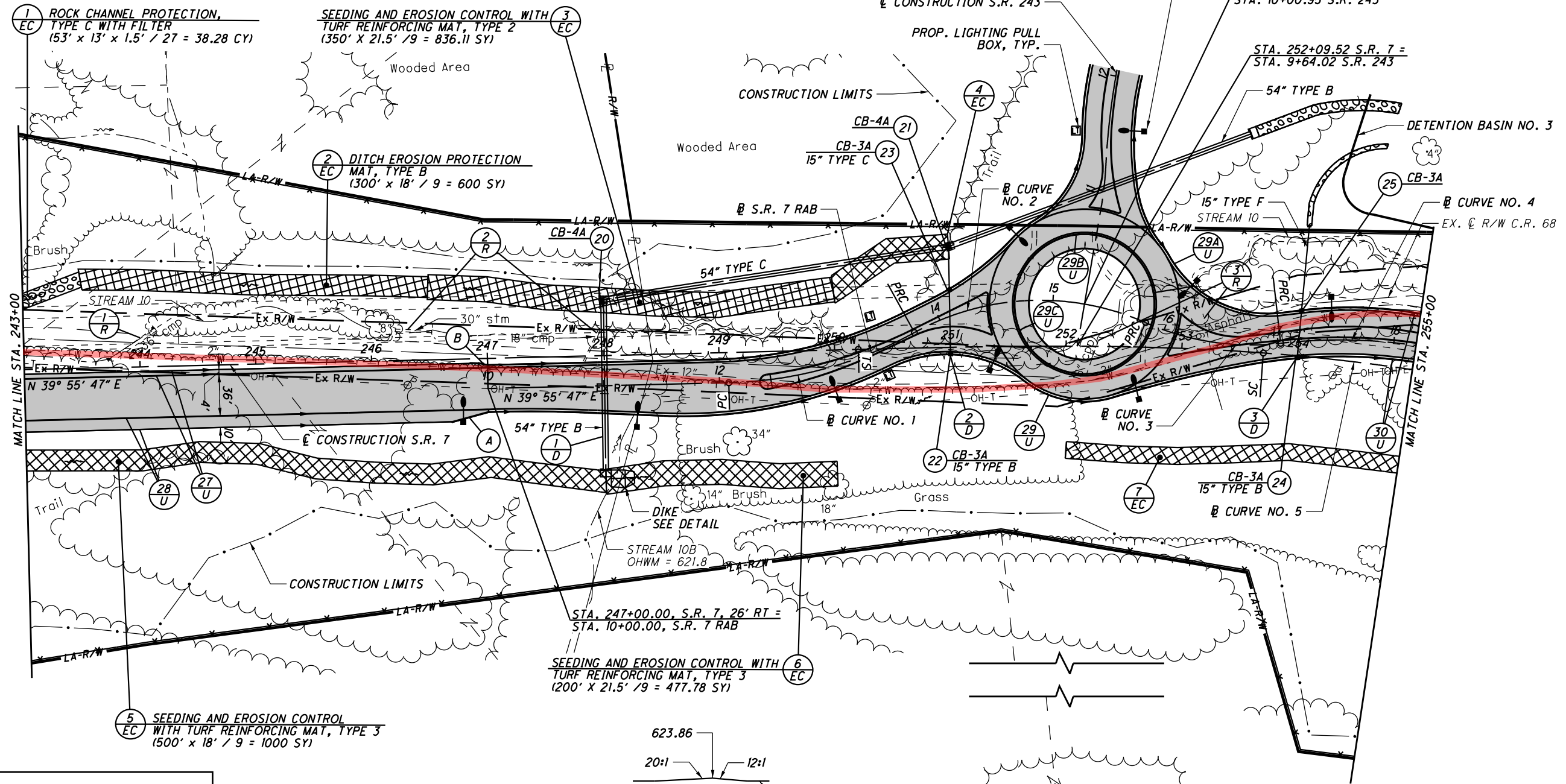
CALCULATED SLP CHECKED ALB

PLAN - S.R. 7  
 STA. 231+00 TO STA. 243+00

LAW-7-2.17  
 17  
 117  
 1247

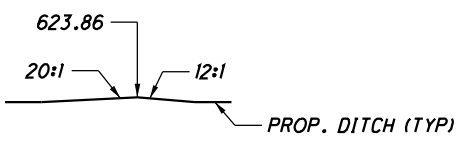
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CURVE DATA S.R. 7 CURVE NO. 5		CURVE DATA S.R. 7 RAB CURVE NO. 1		CURVE DATA S.R. 7 RAB CURVE NO. 2		CURVE DATA S.R. 7 RAB CURVE NO. 3		CURVE DATA S.R. 7 RAB CURVE NO. 4	
P.I. STA. 261+89.75	$\theta s = 5^\circ 41' 15''$	P.I. Sta. 12+93.43	$\Delta = 27^\circ 26' 21''$ (LT)	P.I. Sta. 14+87.13	$\Delta = 52^\circ 43' 55''$ (RT)	P.I. Sta. 16+43.83	$\Delta = 30^\circ 24' 24''$ (LT)	P.I. Sta. 18+27.99	$\Delta = 31^\circ 15' 43''$ (RT)
$\Delta = 58^\circ 46' 06''$ (RT)	$Ls = 350.00'$	$\Delta = 16^\circ 22' 13''$	$R = 350.00'$	$\Delta = 25^\circ 27' 53''$	$R = 225.00'$	$\Delta = 25^\circ 27' 53''$	$R = 225.00'$	$\Delta = 12^\circ 43' 57''$	$R = 450.00'$
$Dc = 3^\circ 15' 00''$	$Ts = 1,169.30'$	$T = 85.45'$	$L = 167.62'$	$T = 111.52'$	$L = 207.08'$	$T = 61.15'$	$L = 119.41'$	$T = 125.90'$	$L = 245.53'$
$R = 1,762.95'$	$LT = 233.45'$	$E = 10.28'$	$E_{max} = 7.10\%$	$E = 26.12'$	$E = 26.12'$	$E = 8.16'$	$E = 8.16'$	$E = 17.28'$	$E = 17.28'$
$T = 773.76'$	$ST = 116.78'$	PC Sta. 12+07.99	CS STA. 268+28.71	PRC Sta. 13+75.60	PRC Sta. 13+75.60	PRC Sta. 15+82.68	PRC Sta. 15+82.68	PRC Sta. 17+02.09	PT Sta. 19+47.62
$L = 1,458.26'$	$CS STA. 268+28.71$	PRC Sta. 13+75.60	ST STA. 271+78.71	PRC Sta. 13+75.60	PRC Sta. 13+75.60	PRC Sta. 15+82.68	PRC Sta. 15+82.68	PRC Sta. 17+02.09	PT Sta. 19+47.62
$E = 162.33'$	ST STA. 271+78.71								
TS STA. 250+20.45									
SC STA. 253+70.45									



**LEGEND:**  
 EX. WL TO BE ABANDONED

- (A) STA. 246+68.00 BEGIN SHOULDER TAPER, 54' RT.  
 STA. 247+00.00 END SHOULDER TAPER, 58' RT.
- (B) STA. 246+92.00 BEGIN SHOULDER TAPER, 4' LT.  
 STA. 247+00.00 END SHOULDER TAPER, 6' LT.
- (4) DITCH EROSION PROTECTION MAT, TYPE B (100' X 21.5' / 9 = 238.89 SY)
- (7) SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (288' X 14.5' / 9 = 464 SY)



**DIKE DETAIL**  
 EMBANKMENT INCLUDED IN THE COST OF ITEM 611 - 54' CONDUIT, TYPE B

- PROPOSED PAVEMENT

\* USE TYPE 6 CURB TO TAPER SHOULDER. TAPER CURB HEIGHT FROM 0" TO 6" IN 10".

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEETS 120-121  
 FOR S.R. 243 PLAN AND PROFILE, SEE SHEETS 490-491  
 FOR PAVEMENT DETAILS, SEE SHEETS 607-609  
 FOR STORM SEWER PROFILES, SEE SHEETS 257, 259 & 642  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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**CURVE DATA**  
S.R. 7  
CURVE NO. 5

P.I. STA. 261+89.75     $\theta_s = 5^\circ 41' 15''$   
 $\Delta = 58^\circ 46' 06''$  (RT)     $L_s = 350.00'$   
 $D_c = 3^\circ 15' 00''$      $T_s = 1,169.30'$   
 $R = 1,762.95'$      $LT = 233.45'$   
 $T = 773.76'$      $ST = 116.78'$   
 $L = 1,458.26'$      $e_{max} = 7.10\%$   
 $E = 162.33'$     CS STA. 268+28.71  
 TS STA. 250+20.45    ST STA. 271+78.71  
 SC STA. 253+70.45

Service to be Abandoned

STA. 17+05, 415' LT.  
CR 69 CL

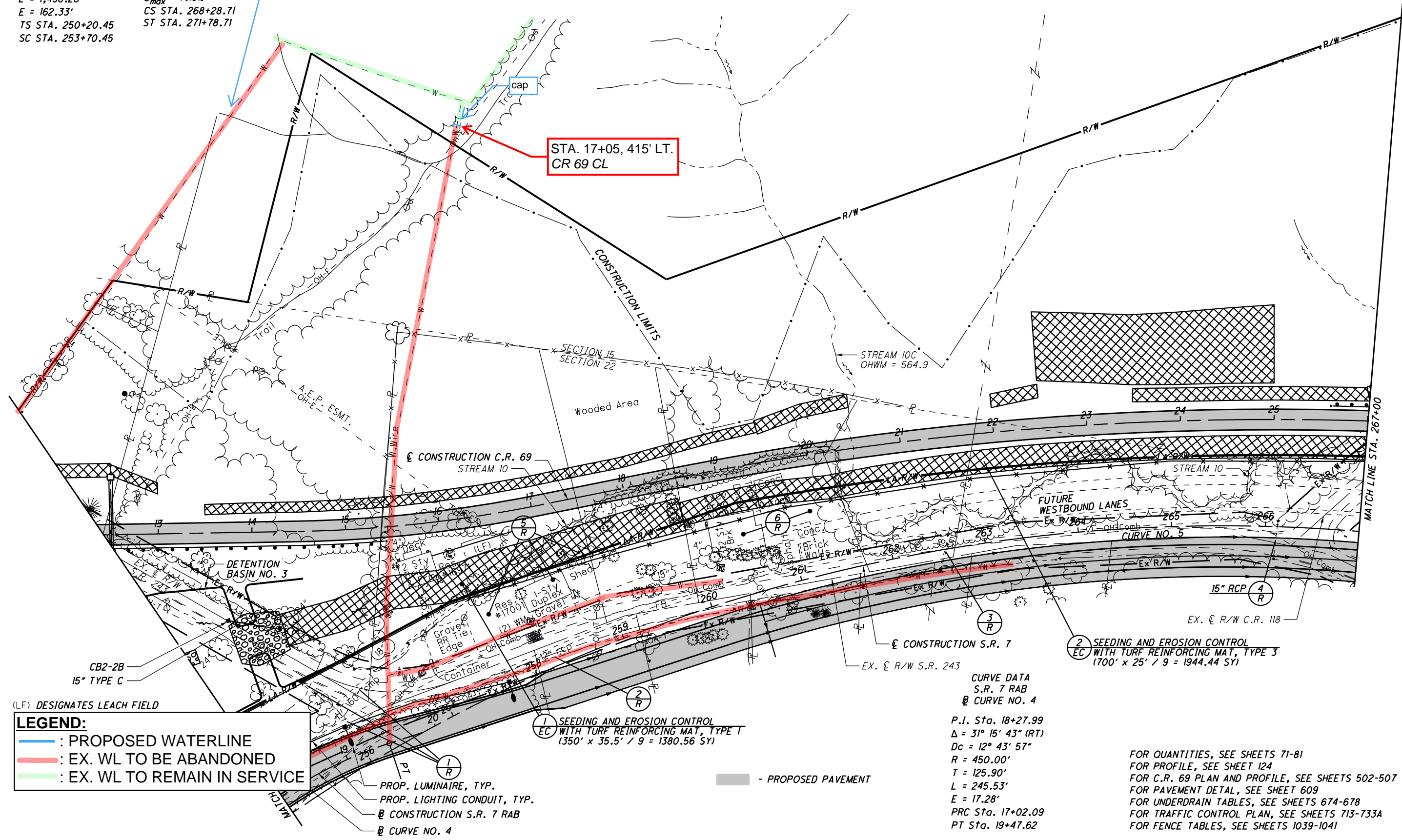


PLAN - S.R. 7  
STA. 255+00 TO STA. 267+00 (NORTH)

LAW-7-2.17

19  
122  
1247

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**LEGEND:**

- : PROPOSED WATERLINE
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE

- PROP. LUMINAIRE, TYP.
- PROP. LIGHTING CONDUIT, TYP.
- CONSTRUCTION S.R. 7 RAB
- CURVE NO. 4

— PROPOSED PAVEMENT

**CURVE DATA**  
S.R. 7 RAB  
CURVE NO. 4

P.I. Sta. 18+27.99  
 $\Delta = 31^\circ 15' 43''$  (RT)  
 $D_c = 12^\circ 43' 57''$   
 $R = 450.00'$   
 $T = 125.90'$   
 $L = 245.53'$   
 $E = 17.28'$   
 PRC Sta. 17+02.09  
 PT Sta. 19+47.62

SEEDING AND EROSION CONTROL  
 EC WITH TURF REINFORCING MAT, TYPE 3  
 (700' x 25' / 9 = 1944.44 SY)

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 124  
 FOR C.R. 69 PLAN AND PROFILE, SEE SHEETS 502-507  
 FOR PAVEMENT DETAIL, SEE SHEET 609  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041



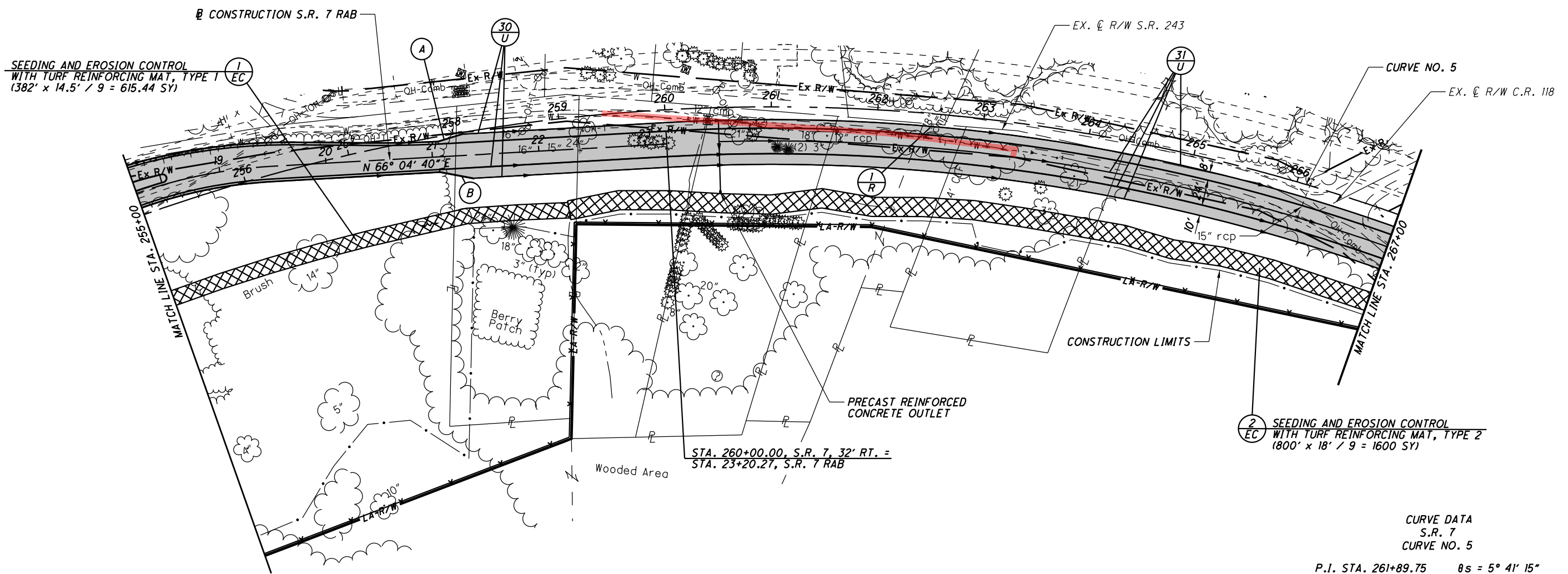
CALCULATED SLP CHECKED ALB

PLAN - S.R. 7  
STA. 255+00 TO STA. 267+00 (SOUTH)

LAW-7-2.17

20

123  
1247



- \* (A) - STA. 257+84.79  
BEGIN SHOULDER TAPER, 4.87' RT.
- STA. 258+09.36  
END SHOULDER TAPER, 1.71' RT.
  
- \* (B) - STA. 257+81.31  
BEGIN SHOULDER TAPER, 32.70' RT.
- STA. 258+12.87  
END SHOULDER TAPER, 44.33' RT.

\* USE TYPE 6 CURB TO TAPER SHOULDER. TAPER CURB HEIGHT FROM 0" TO 6" IN 10'.

**LEGEND:**  
 : EX. WL TO BE ABANDONED

- PROPOSED PAVEMENT

CURVE DATA  
S.R. 7  
CURVE NO. 5

P.I. STA. 261+89.75	θs = 5° 41' 15"
Δ = 58° 46' 06" (RT)	Ls = 350.00'
Dc = 3° 15' 00"	Ts = 1,169.30'
R = 1,762.95'	LT = 233.45'
T = 773.76'	ST = 116.78'
L = 1,458.26'	e <sub>max</sub> = 7.10%
E = 162.33'	CS STA. 268+28.71
TS STA. 250+20.45	ST STA. 271+78.71
SC STA. 253+70.45	

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 124  
 FOR PAVEMENT DETAILS, SEE SHEETS 609  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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# SR 243

CURVE DATA S.R. 243 CURVE NO. 1	CURVE DATA S.R. 243 CURVE NO. 2	CURVE DATA S.R. 243 CURVE NO. 3
P.I. Sta. 11+03.86	P.I. Sta. 11+99.38	P.I. Sta. 12+94.82
$\Delta = 6^\circ 51' 57''$ (LT)	$\Delta = 13^\circ 36' 35''$ (RT)	$\Delta = 6^\circ 05' 09''$ (RT)
$Dc = 19^\circ 05' 55''$	$Dc = 8^\circ 48' 53''$	$Dc = 16^\circ 22' 13''$
$R = 300.00'$	$R = 650.00'$	$R = 350.00'$
$T = 18.00'$	$T = 77.56'$	$T = 18.61'$
$L = 35.95'$	$L = 154.40'$	$L = 37.18'$
$E = 0.54'$	$E = 4.61'$	$E = 0.49'$
$e_{max} = 1.60\%$	$e_{max} = 1.60\%$	$e_{max} = 1.60\%$
PC Sta. 10+85.87	PRC Sta. 11+21.82	PCC Sta. 12+76.21
PRC Sta. 11+21.82	PCC Sta. 12+76.21	CS Sta. 13+13.39

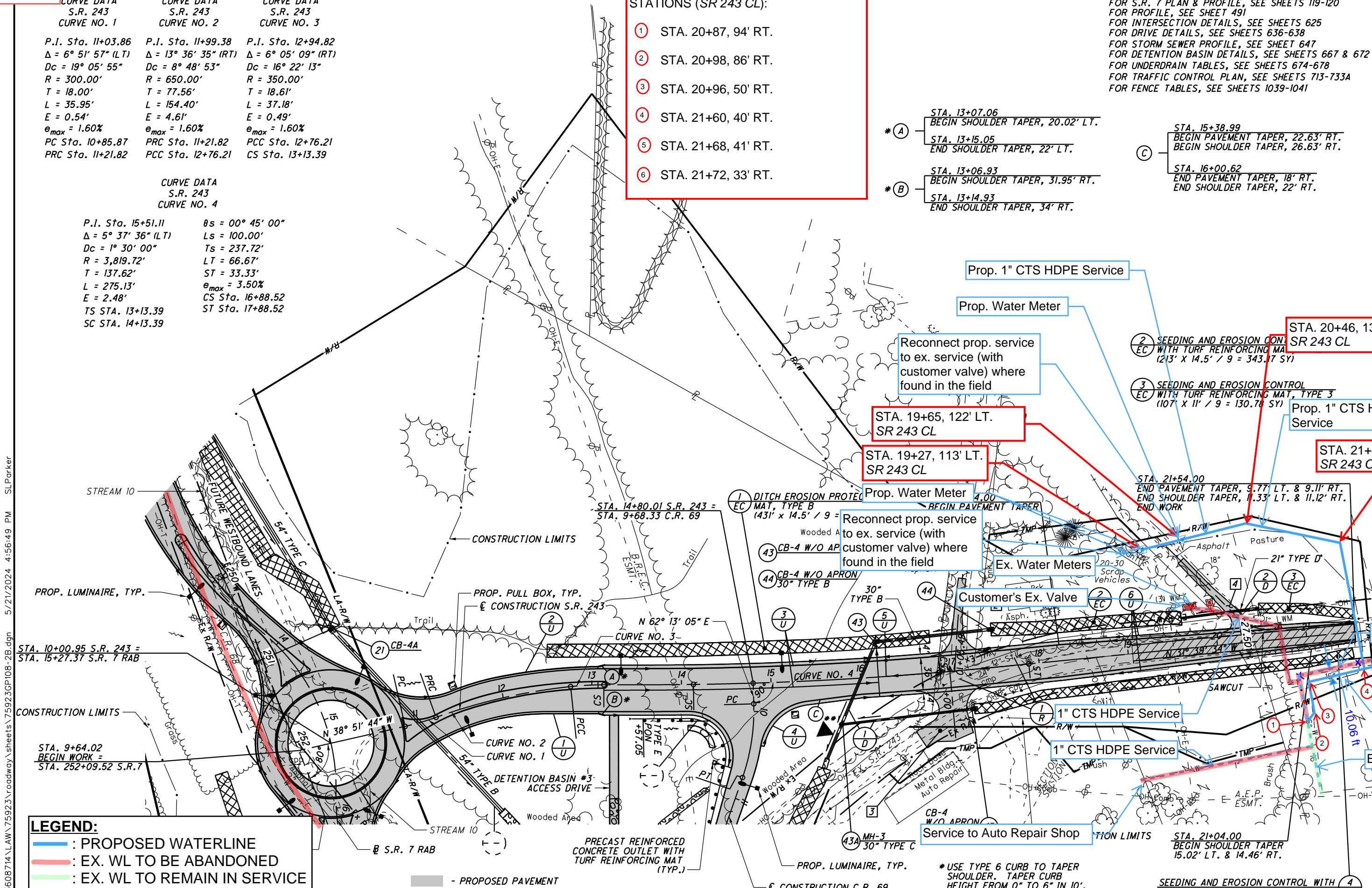
### CURVE DATA S.R. 243 CURVE NO. 4

P.I. Sta. 15+51.11	$\theta_s = 00^\circ 45' 00''$
$\Delta = 5^\circ 37' 36''$ (LT)	$L_s = 100.00'$
$Dc = 1^\circ 30' 00''$	$T_s = 237.72'$
$R = 3,819.72'$	$LT = 66.67'$
$T = 137.62'$	$ST = 33.33'$
$L = 275.13'$	$e_{max} = 3.50\%$
$E = 2.48'$	CS Sta. 16+88.52
TS STA. 13+13.39	ST Sta. 17+88.52
SC STA. 14+13.39	

### STATIONS (SR 243 CL):

- ① STA. 20+87, 94' RT.
- ② STA. 20+98, 86' RT.
- ③ STA. 20+96, 50' RT.
- ④ STA. 21+60, 40' RT.
- ⑤ STA. 21+68, 41' RT.
- ⑥ STA. 21+72, 33' RT.

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 119-120  
 FOR PROFILE, SEE SHEET 491  
 FOR INTERSECTION DETAILS, SEE SHEETS 625  
 FOR DRIVE DETAILS, SEE SHEETS 636-638  
 FOR STORM SEWER PROFILE, SEE SHEET 647  
 FOR DETENTION BASIN DETAILS, SEE SHEETS 667 & 672  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041



- \* (A) STA. 13+07.06  
BEGIN SHOULDER TAPER, 20.02' LT.  
STA. 13+15.05  
END SHOULDER TAPER, 22' LT.
- \* (B) STA. 13+06.93  
BEGIN SHOULDER TAPER, 31.95' RT.  
STA. 13+14.93  
END SHOULDER TAPER, 34' RT.

- (C) STA. 15+38.99  
BEGIN PAVEMENT TAPER, 22.63' RT.  
BEGIN SHOULDER TAPER, 26.63' RT.  
STA. 16+00.62  
END PAVEMENT TAPER, 18' RT.  
END SHOULDER TAPER, 22' RT.

- Prop. 1" CTS HDPE Service
- Prop. Water Meter
- Reconnect prop. service to ex. service (with customer valve) where found in the field
- STA. 19+65, 122' LT. SR 243 CL
- STA. 19+27, 113' LT. SR 243 CL
- Prop. Water Meter
- Reconnect prop. service to ex. service (with customer valve) where found in the field
- STA. 20+46, 133' LT. SR 243 CL
- SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (213' X 14.5' / 9 = 343.17 SY)
- SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (107' X 11' / 9 = 130.78 SY)
- Prop. 1" CTS HDPE Service
- STA. 21+48, 101' LT. SR 243 CL

**LEGEND:**

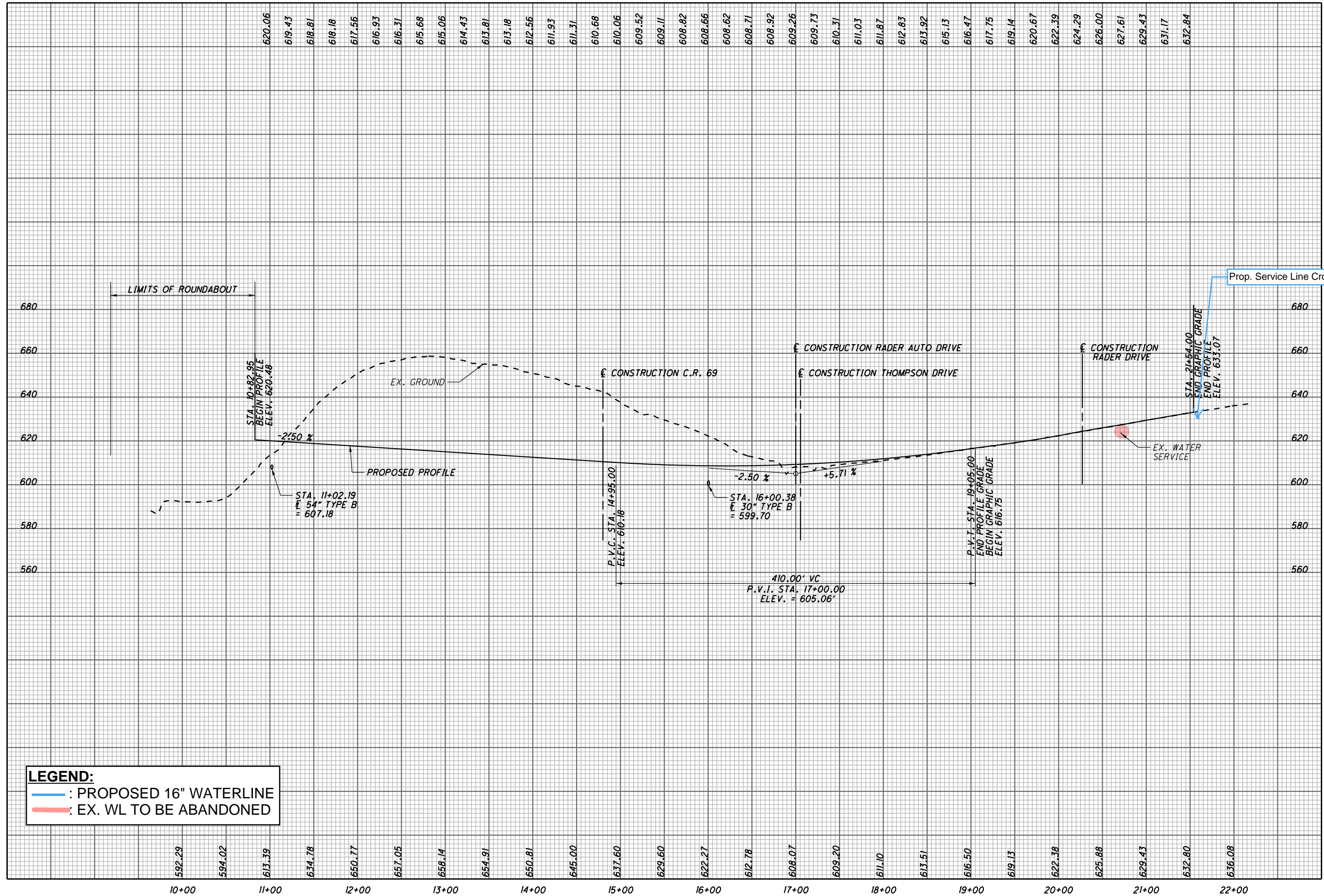
- : PROPOSED WATERLINE
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE
- PROPOSED PAVEMENT
- 3-1/4" MILL/FILL

\* USE TYPE 6 CURB TO TAPER SHOULDER. TAPER CURB HEIGHT FROM 0" TO 6" IN 10'.  
 \*\* LIGHTING CONTROL CENTER

STA. 21+04.00  
 BEGIN SHOULDER TAPER 15.02' LT. & 14.46' RT.  
 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (431' X 11' / 9 = 526.78 SY)

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SR 243  
 LAW - 21  
 490  
 1247





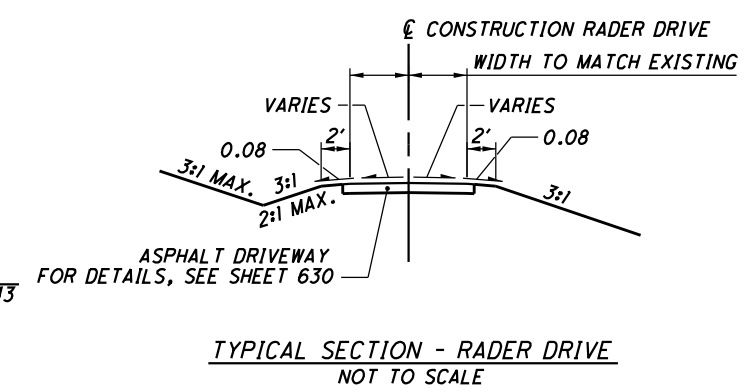
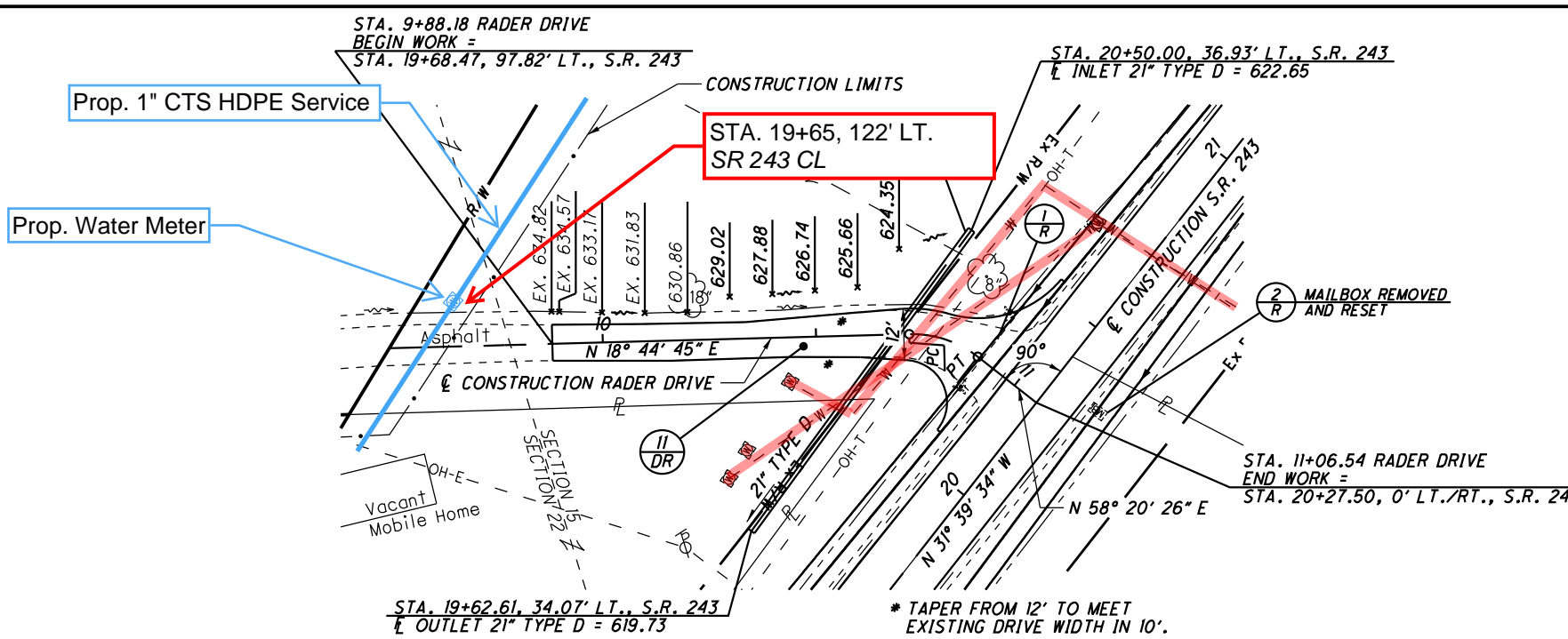
CALCULATED  
SLP  
CHECKED  
ALB

0 20 40  
HORIZONTAL  
SCALE IN FEET

PLAN AND PROFILE  
RADER DRIVE

LAW - 7 - 2.17

23  
638  
1247



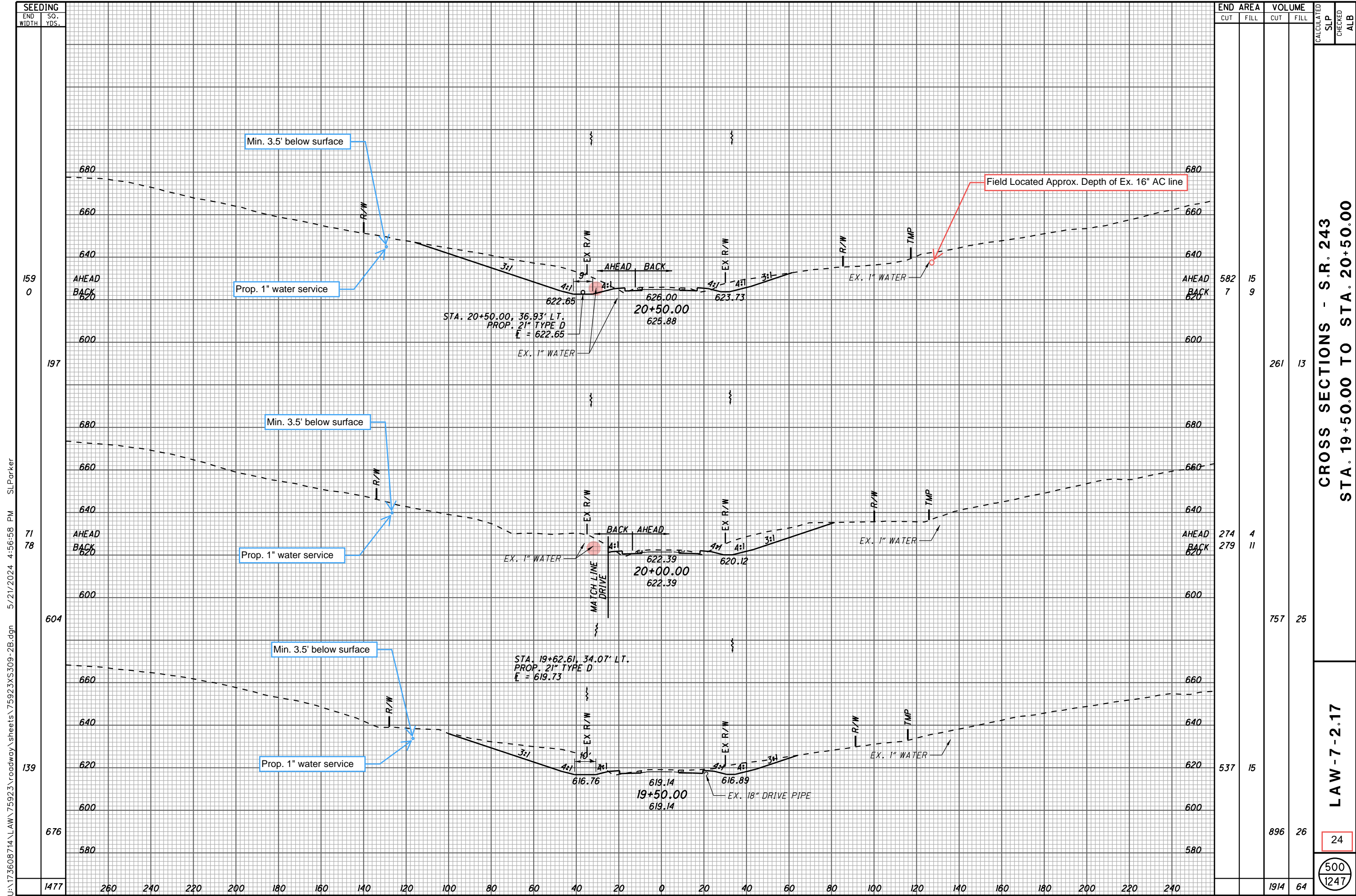
**RADER DRIVE - II**

<p><b>CURVE DATA</b> RADER DRIVE</p> <p>P.I. STA. 10+80.82  <math>\Delta = 39^\circ 35' 40''</math> (RT)  <math>D_c = 229^\circ 10' 59''</math>  <math>R = 25.00'</math>  <math>T = 9.00'</math>  <math>L = 17.28'</math>  <math>E = 1.57'</math>  <math>e_{max} = NA</math>          PC STA. 10+71.82          PT STA. 10+89.09</p>	<p><b>LEFT E/P RETURN DATA</b></p> <p><math>\Delta = 66^\circ 44' 56''</math>  <math>R = 25.00'</math>  <math>T = 16.47'</math>  <math>L = 29.12'</math>          R.P. STA. 10+79.57, 31' LT., RADER DRIVE          P.C. STA. 20+53.87, 13.27' LT., S.R. 243          P.T. STA. 10+79.57, 6' LT., RADER DRIVE</p>	<p><b>RIGHT E/P RETURN DATA</b></p> <p><math>\Delta = 131^\circ 01' 25''</math>  <math>R = 10.00'</math>  <math>T = 21.95'</math>  <math>L = 22.87'</math>          R.P. STA. 10+70.23, 16' RT., RADER DRIVE          P.C. STA. 10+70.23, 6' RT., RADER DRIVE          P.T. STA. 20+08.18, 14.41' LT., S.R. 243</p>
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**LEGEND:**  
— : PROPOSED 16" WATERLINE  
— : EX. WL TO BE ABANDONED

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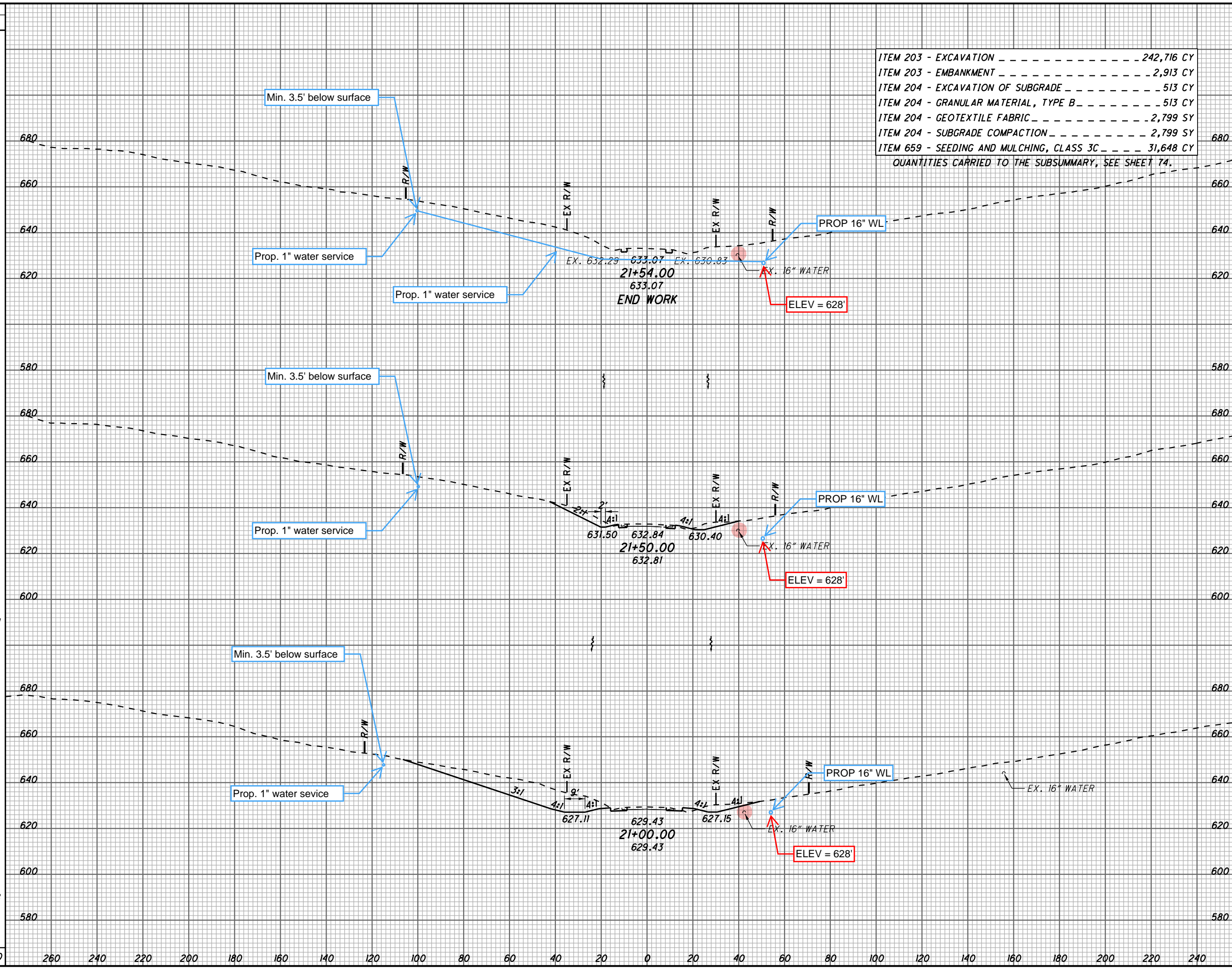


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SEEDING	END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
	END WIDTH	SO. YDS.	CUT	FILL		
	1430		1641	36	501	1247



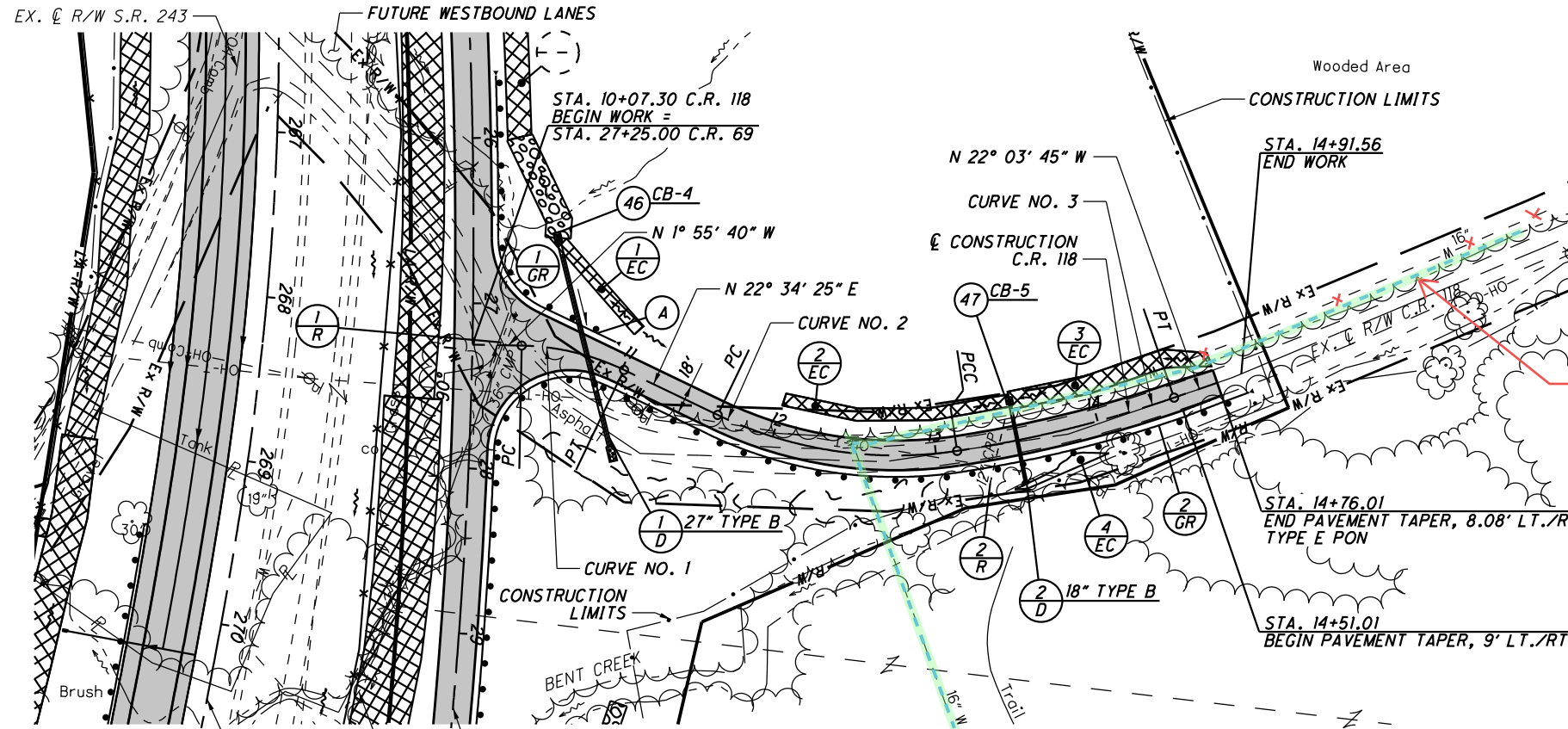
ITEM 203 - EXCAVATION	242,716 CY
ITEM 203 - EMBANKMENT	2,913 CY
ITEM 204 - EXCAVATION OF SUBGRADE	513 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	513 CY
ITEM 204 - GEOTEXTILE FABRIC	2,799 SY
ITEM 204 - SUBGRADE COMPACTION	2,799 SY
ITEM 659 - SEEDING AND MULCHING, CLASS 3C	31,648 CY

QUANTITIES CARRIED TO THE SUBSUMMARY, SEE SHEET 74.

END AREA	VOLUME	CALCULATED SLP	CHECKED ALB
0	0		
92	5		
545	8		
1044	22		
1641	36	25	

CROSS SECTIONS - S.R. 243  
STA. 21+00.00 TO STA. 21+54.00

LAW - 7 - 2.17



- INCLUDES 50' OF 46' RADIUS SHOP CURVED GUARDRAIL

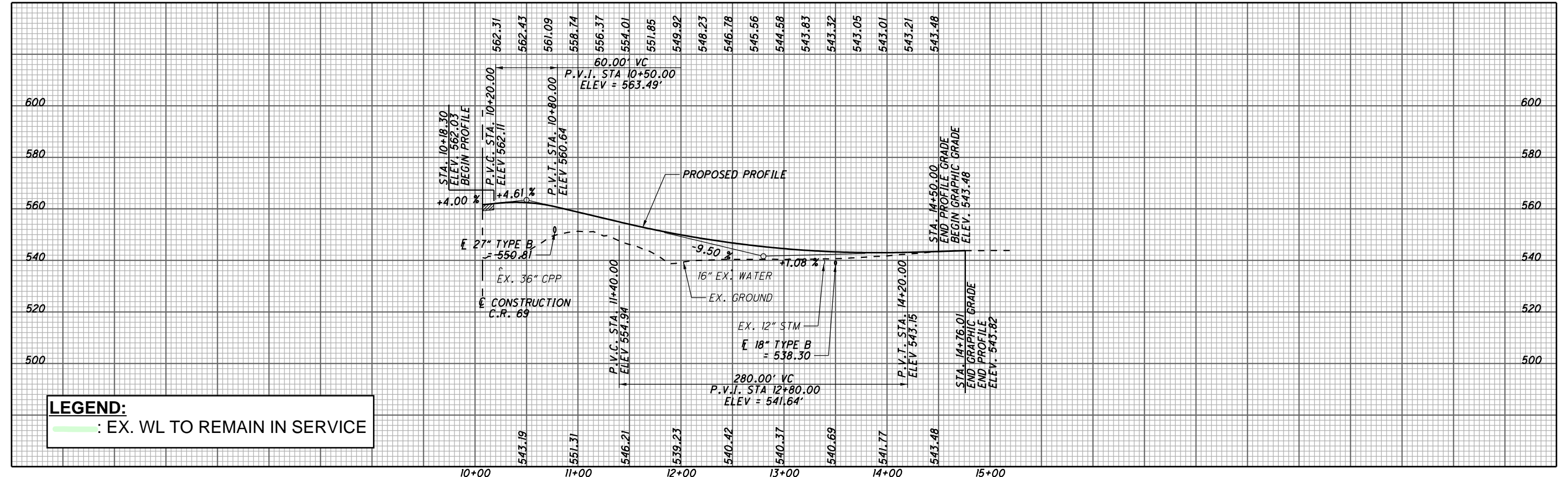


Field located approx. location of ex. 16" waterline

CURVE DATA C.R. 118 CURVE NO. 1	CURVE DATA C.R. 118 CURVE NO. 2	CURVE DATA C.R. 118 CURVE NO. 3
P.I. STA. 10+69.71	P.I. STA. 12+40.87	P.I. STA. 13+80.89
$\Delta = 24^\circ 30' 05" (RT)$	$\Delta = 34^\circ 13' 00" (LT)$	$\Delta = 10^\circ 25' 10" (LT)$
$D_c = 38^\circ 11' 50"$	$D_c = 23^\circ 00' 00"$	$D_c = 7^\circ 41' 27"$
$R = 150.00'$	$R = 249.11'$	$R = 745.00'$
$T = 32.57'$	$T = 76.68'$	$T = 67.93'$
$L = 64.14'$	$L = 148.77'$	$L = 135.48'$
$E = 3.49'$	$E = 11.53'$	$E = 3.09'$
$e_{max} (N.D.C.) = 8.00\%$	$e_{max} (N.D.C.) = 8.00\%$	$e_{max} (N.D.C.) = 8.00\%$
$e_{max} = NA$	$e_{max} = 6.80\%$	$e_{max} = 3.98\%$
PC STA. 10+37.14	PC STA. 11+64.19	PC STA. 13+12.96
PT STA. 11+01.28	PCC STA. 13+12.96	PT STA. 14+48.44

- DITCH EROSION PROTECTION  
MAT, TYPE B  
(174' X 7.5' / 9 = 61.67 SY)
- DITCH EROSION PROTECTION  
MAT, TYPE B  
(150' X 7.5' / 9 = 125 SY)
- DITCH EROSION PROTECTION  
MAT, TYPE B  
(126' X 11' / 9 = 154 SY)
- DUMPED ROCK FILL, TYPE C,  
AS PER PLAN  
(249 SF X 1.5' / 27 = 13.83 CY)
- TYPE E PON  
+79.16
- PROPOSED PAVEMENT

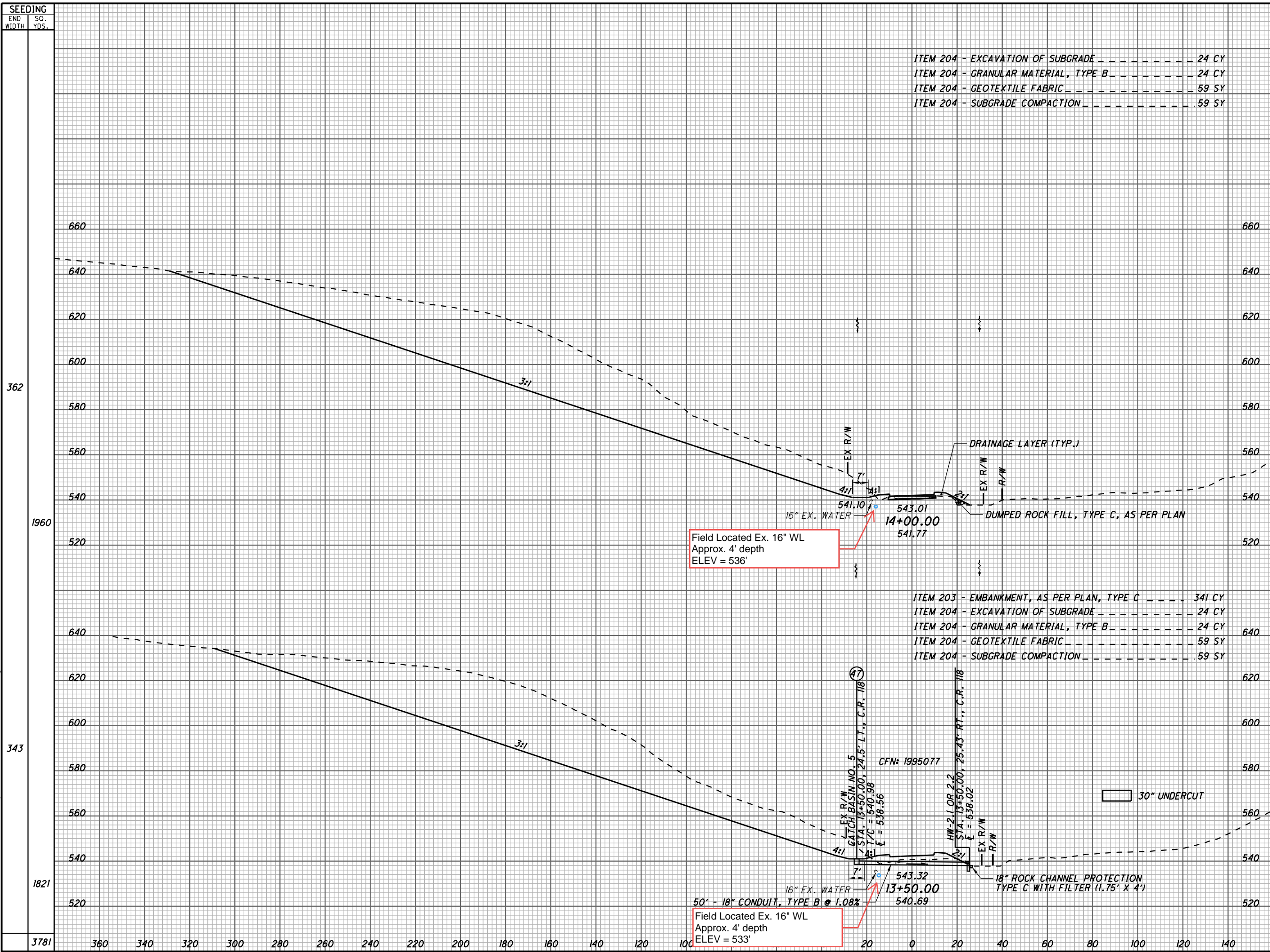
FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 125-126  
 FOR C.R. 69 PLAN & PROFILE, SEE SHEETS 502-507  
 FOR INTERSECTION DETAILS, SEE SHEET 626  
 FOR STORM SEWER PROFILES, SEE SHEETS 551 & 648  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041



**LEGEND:**  
 : EX. WL TO REMAIN IN SERVICE

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ITEM 204 - EXCAVATION OF SUBGRADE ----- 24 CY  
 ITEM 204 - GRANULAR MATERIAL, TYPE B ----- 24 CY  
 ITEM 204 - GEOTEXTILE FABRIC ----- 59 SY  
 ITEM 204 - SUBGRADE COMPACTION ----- 59 SY

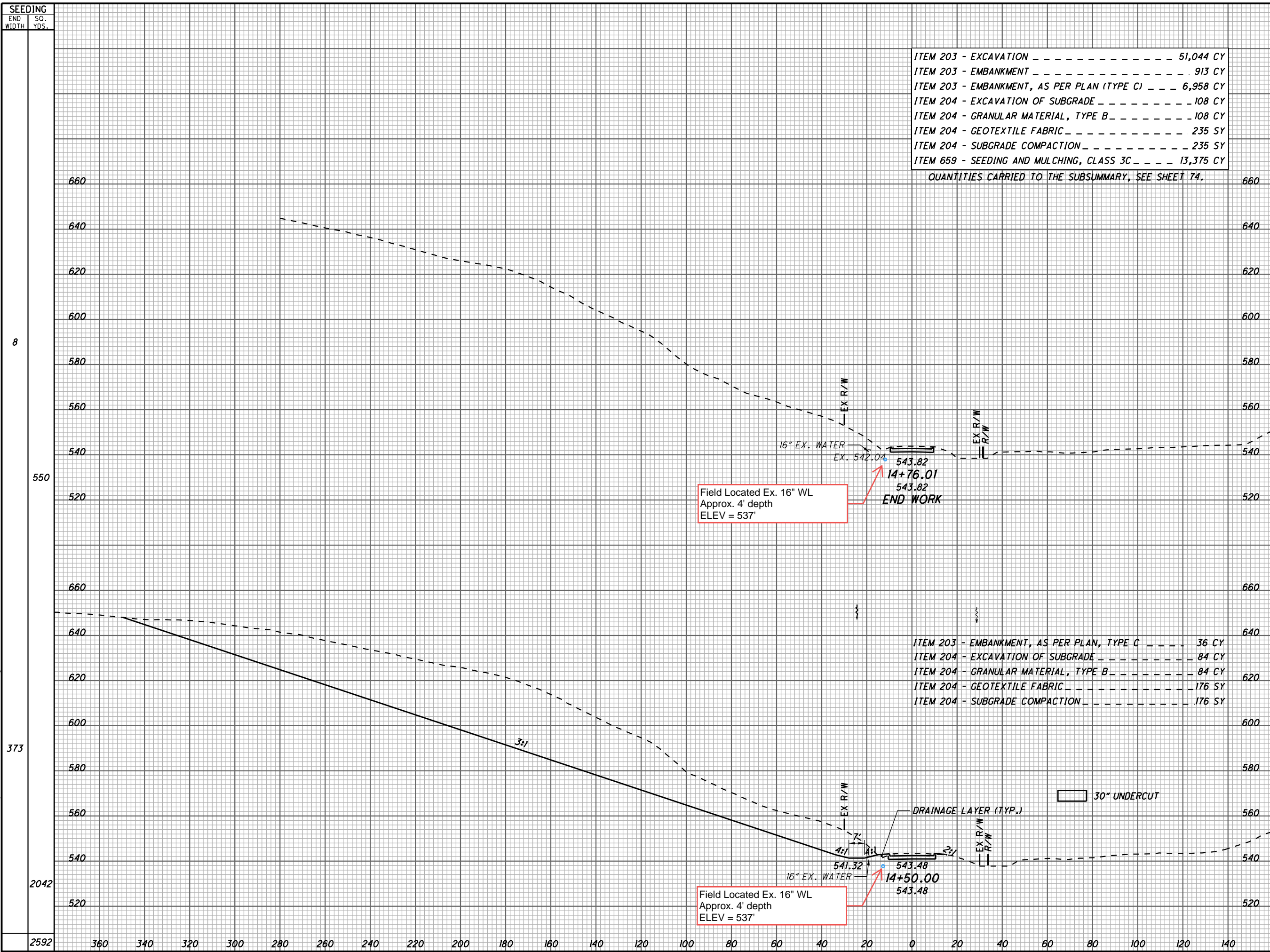
ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C ----- 341 CY  
 ITEM 204 - EXCAVATION OF SUBGRADE ----- 24 CY  
 ITEM 204 - GRANULAR MATERIAL, TYPE B ----- 24 CY  
 ITEM 204 - GEOTEXTILE FABRIC ----- 59 SY  
 ITEM 204 - SUBGRADE COMPACTION ----- 59 SY

END AREA	VOLUME	CALCULATED		CHECKED	ALB
		CUT	FILL		
5182	0				
9149	0				
4699	0				
7944	0				
17093	0				

CROSS SECTIONS - C.R. 118  
 STA. 13+50.00 TO STA. 14+00.00

LAW - 7 - 2.17  
 27  
 551  
 1247

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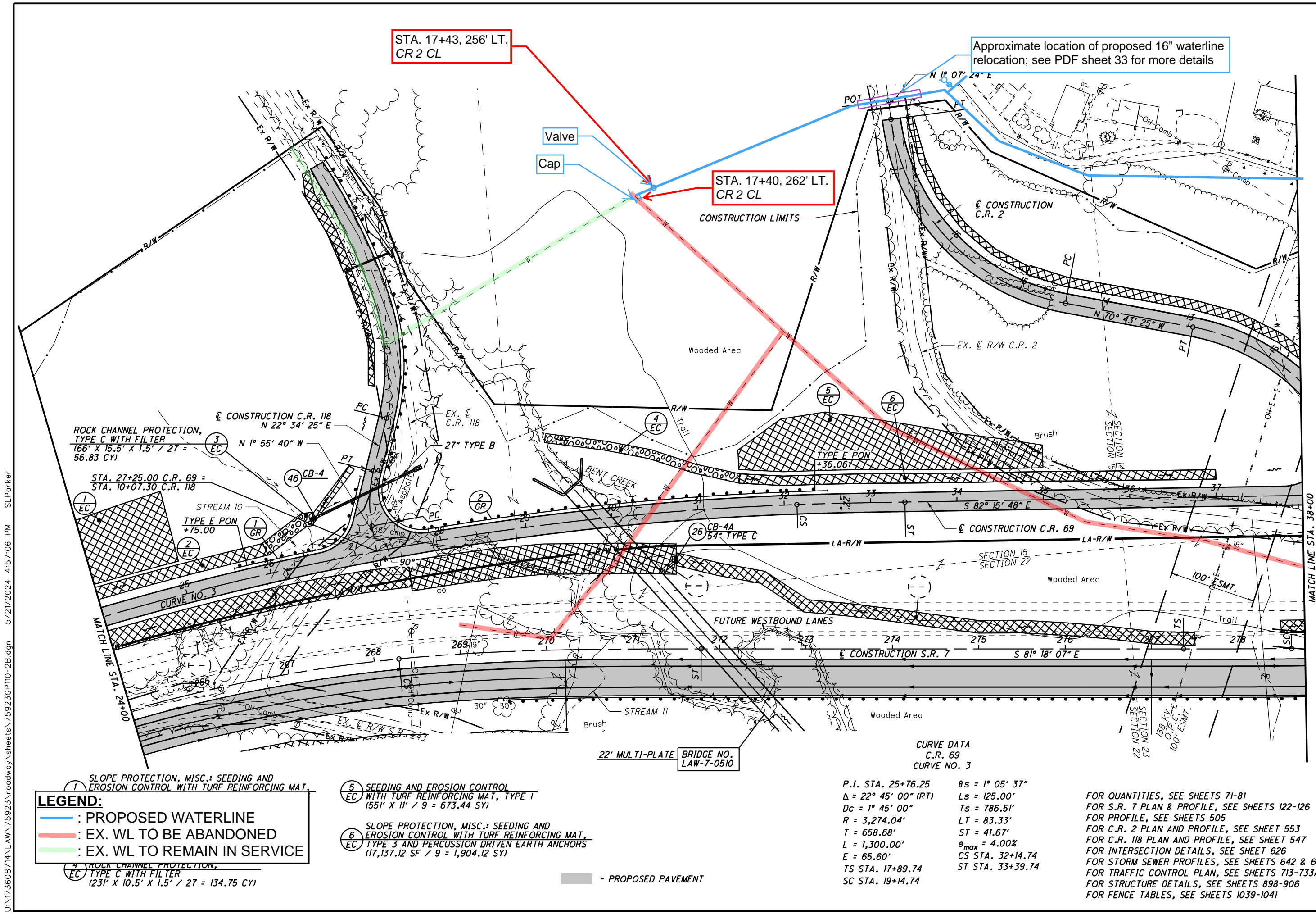
ITEM 203 - EXCAVATION	51,044 CY
ITEM 203 - EMBANKMENT	913 CY
ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C)	6,958 CY
ITEM 204 - EXCAVATION OF SUBGRADE	108 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	108 CY
ITEM 204 - GEOTEXTILE FABRIC	235 SY
ITEM 204 - SUBGRADE COMPACTION	235 SY
ITEM 659 - SEEDING AND MULCHING, CLASS 3C	13,375 CY
QUANTITIES CARRIED TO THE SUBSUMMARY, SEE SHEET 74.	

ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C	36 CY
ITEM 204 - EXCAVATION OF SUBGRADE	84 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	84 CY
ITEM 204 - GEOTEXTILE FABRIC	176 SY
ITEM 204 - SUBGRADE COMPACTION	176 SY

END STA.	END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL	CUT	FILL		
14+50.00						
14+76.01	2	0	2870	0		
373	5956	0				
2042			10314	0		
2592	13184	0				

CROSS SECTIONS - C.R. 118  
STA. 14+50.00 TO STA. 14+76.01

LAW - 7 - 2.17  
28  
552  
1247



STA. 17+43, 256' LT.  
CR 2 CL

Approximate location of proposed 16" waterline relocation; see PDF sheet 33 for more details

STA. 17+40, 262' LT.  
CR 2 CL

Valve

Cap

CONSTRUCTION LIMITS

Wooded Area

CONSTRUCTION C.R. 2

EX. C R/W C.R. 2

ROCK CHANNEL PROTECTION,  
TYPE C WITH FILTER  
(66' X 15.5' X 1.5' / 27 =  
56.83 CY)

STA. 27+25.00 C.R. 69 =  
STA. 10+07.30 C.R. 118

STREAM 10  
TYPE E PON  
+75.00

CURVE NO. 3

1 SLOPE PROTECTION, MISC.: SEEDING AND  
EROSION CONTROL WITH TURF REINFORCING MAT.

**LEGEND:**  
 : PROPOSED WATERLINE  
 : EX. WL TO BE ABANDONED  
 : EX. WL TO REMAIN IN SERVICE

4 ROCK CHANNEL PROTECTION,  
TYPE C WITH FILTER  
(231' X 10.5' X 1.5' / 27 = 134.75 CY)

5 SEEDING AND EROSION CONTROL  
WITH TURF REINFORCING MAT, TYPE 1  
(551' X 11' / 9 = 673.44 SY)

6 SLOPE PROTECTION, MISC.: SEEDING AND  
EROSION CONTROL WITH TURF REINFORCING MAT,  
TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS  
(17,137.12 SF / 9 = 1,904.12 SY)

22' MULTI-PLATE BRIDGE NO.  
LAW-7-0510

- PROPOSED PAVEMENT

CURVE DATA  
C.R. 69  
CURVE NO. 3

P.I. STA. 25+76.25       $\theta_s = 1^\circ 05' 37''$   
 $\Delta = 22^\circ 45' 00''$  (RT)       $L_s = 125.00'$   
 $D_c = 1^\circ 45' 00''$        $T_s = 786.51'$   
 $R = 3,274.04'$        $LT = 83.33'$   
 $T = 658.68'$        $ST = 41.67'$   
 $L = 1,300.00'$        $e_{max} = 4.00\%$   
 $E = 65.60'$        $CS$  STA. 32+14.74  
 $TS$  STA. 17+89.74       $ST$  STA. 33+39.74  
 $SC$  STA. 19+14.74

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 122-126  
 FOR PROFILE, SEE SHEETS 505  
 FOR C.R. 2 PLAN AND PROFILE, SEE SHEET 553  
 FOR C.R. 118 PLAN AND PROFILE, SEE SHEET 547  
 FOR INTERSECTION DETAILS, SEE SHEET 626  
 FOR STORM SEWER PROFILES, SEE SHEETS 642 & 648  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR STRUCTURE DETAILS, SEE SHEETS 898-906  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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(LF) DESIGNATES LEACH FIELD

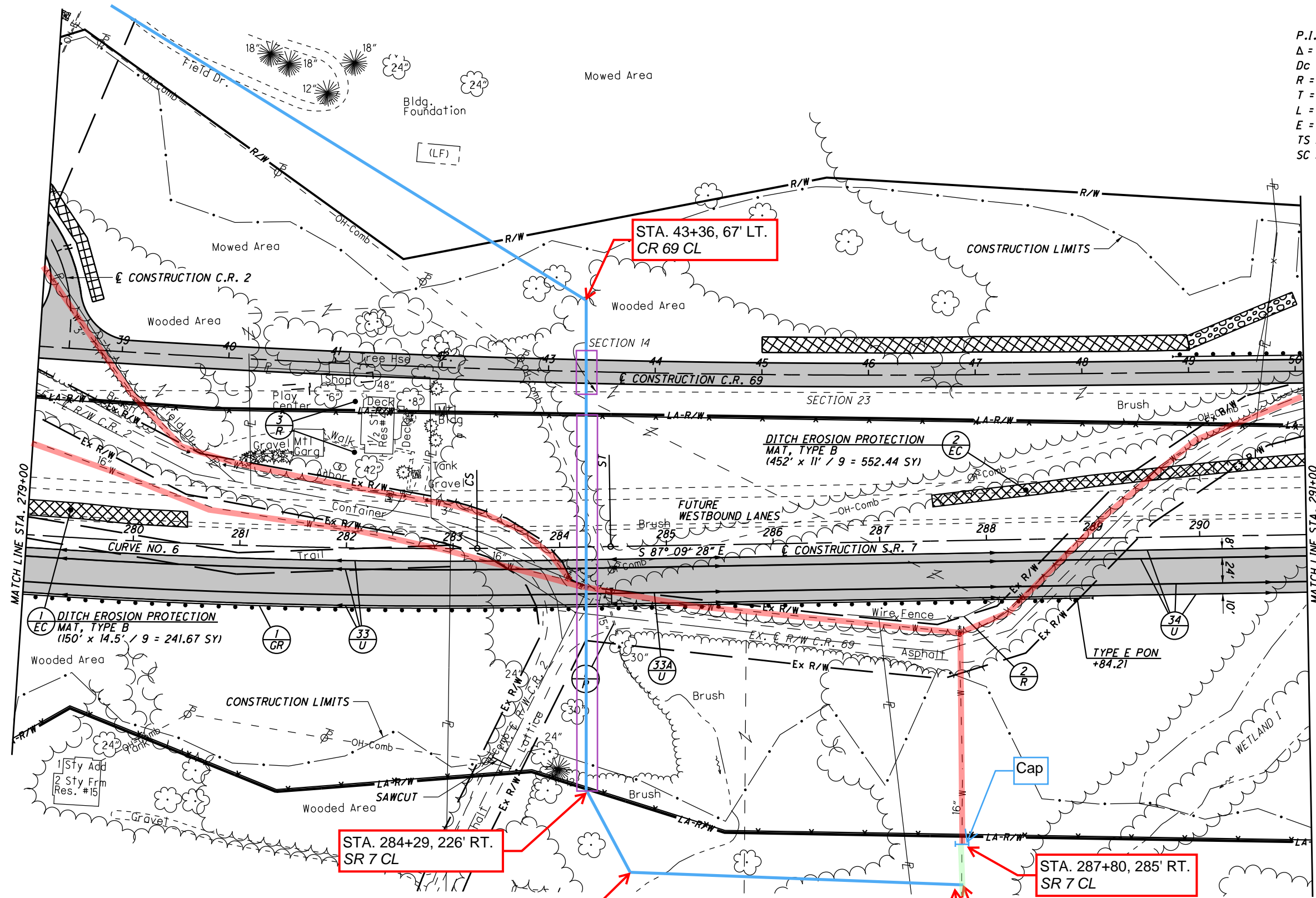
CURVE DATA  
S.R. 7  
CURVE NO. 6

P.I. STA. 280+92.68	$\theta_s = 0^\circ 37' 30''$
$\Delta = 5^\circ 51' 21''$ (LT)	$L_s = 125.00'$
$D_c = 1^\circ 00' 00''$	$T_s = 355.56'$
$R = 5,729.58'$	$LT = 83.33'$
$L = 230.42'$	$ST = 41.67'$
$E = 4.63'$	$e_{max} = 2.90\%$
TS STA. 277+37.12	CS STA. 283+22.71
SC STA. 278+62.12	ST STA. 284+47.71

CALCULATED SLP CHECKED ALB

HORIZONTAL SCALE IN FEET

0 50 100



STA. 43+36, 67' LT.  
CR 69 CL

STA. 284+29, 226' RT.  
SR 7 CL

STA. 284+67, 306' RT.  
SR 7 CL

STA. 287+80, 285' RT.  
SR 7 CL

STA. 287+80, 322' RT.  
SR 7 CL

STA. 287+76, 322' RT.  
SR 7 CL

**LEGEND:**

- : PROPOSED WATERLINE
- : PROPOSED STEEL CASING
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE

— PROPOSED PAVEMENT

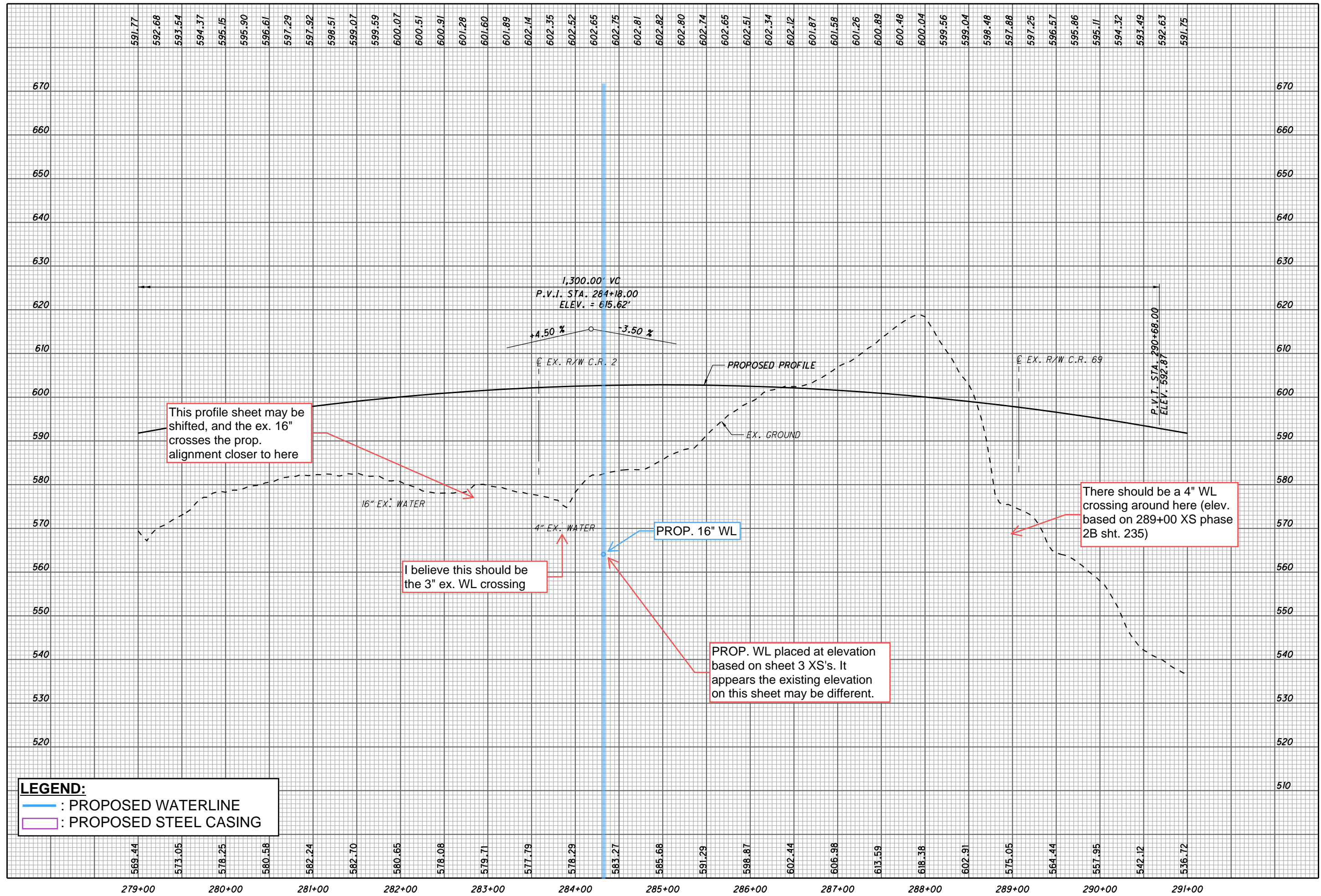
FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 128  
 FOR C.R. 69 PLAN AND PROFILE, SEE SHEETS 502-507  
 FOR C.R. 2 PLAN AND PROFILE, SEE SHEET 553  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

PLAN - S.R. 7  
STA. 279+00 TO STA. 291+00

LAW - 7 - 2.17

30  
127  
1247

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This profile sheet may be shifted, and the ex. 16" crosses the prop. alignment closer to here

I believe this should be the 3" ex. WL crossing

PROP. WL placed at elevation based on sheet 3 XS's. It appears the existing elevation on this sheet may be different.

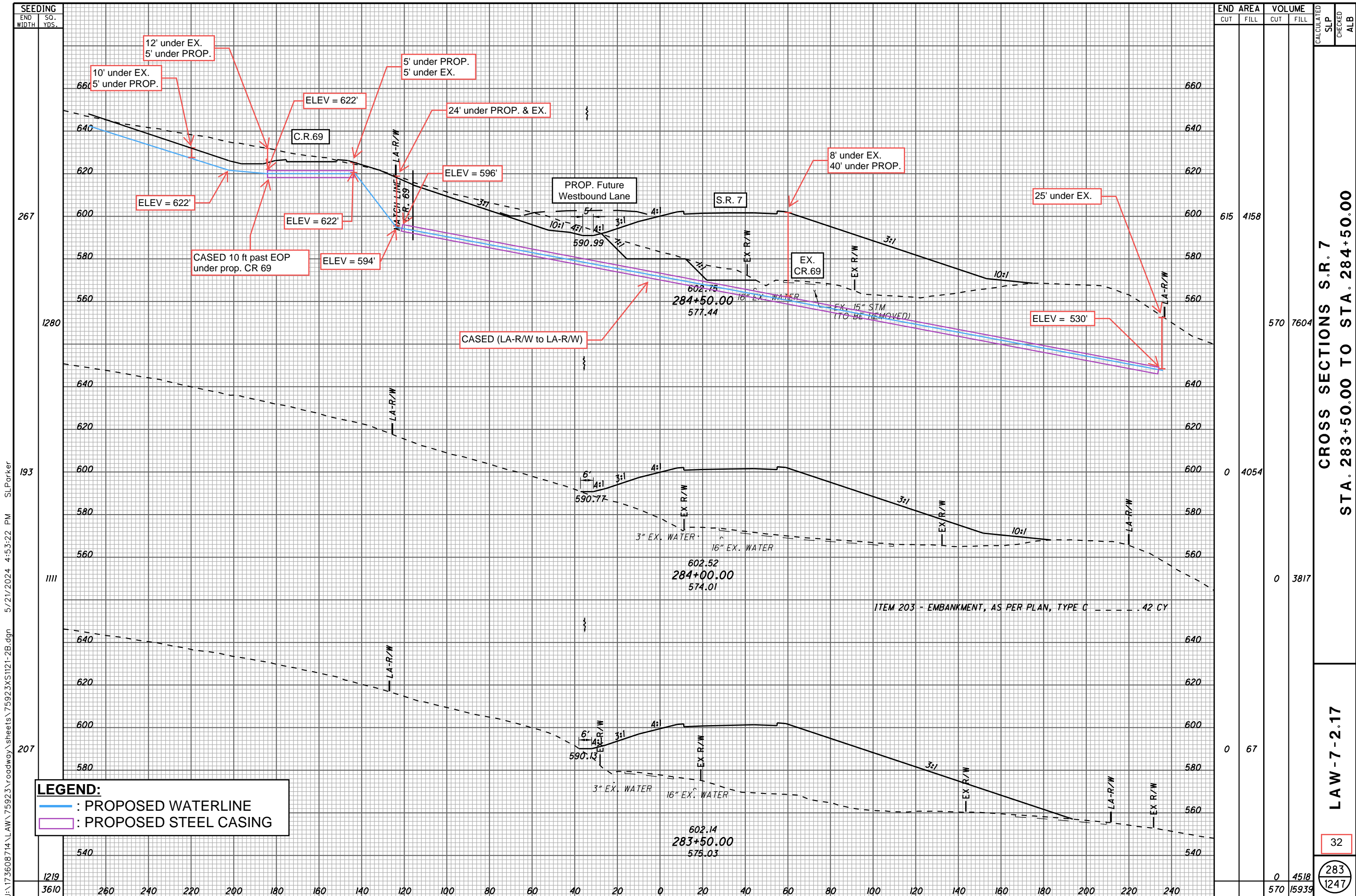
There should be a 4" WL crossing around here (elev. based on 289+00 XS phase 2B sht. 235)

**LEGEND:**  
— : PROPOSED WATERLINE  
 : PROPOSED STEEL CASING

569.44	573.05	578.25	580.58	582.24	582.70	580.65	578.08	579.71	577.79	578.29	583.27	585.68	591.29	598.87	602.44	606.98	613.59	618.38	602.91	575.05	564.44	557.95	542.12	536.72
279+00	280+00	281+00	282+00	283+00	284+00	285+00	286+00	287+00	288+00	289+00	290+00	291+00												

CALCULATED  
SLP  
CHECKED  
ALB

**PROFILE - S.R. 7**  
**STA. 279+00 TO STA. 291+00**



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**LEGEND:**  
— : PROPOSED WATERLINE  
— : PROPOSED STEEL CASING

END AREA	VOLUME	CALCULATED SLP	CHECKED ALB
615	4158		
570	7604		
0	4054		
0	3817		
0	67		
0	4518		
570	15939		

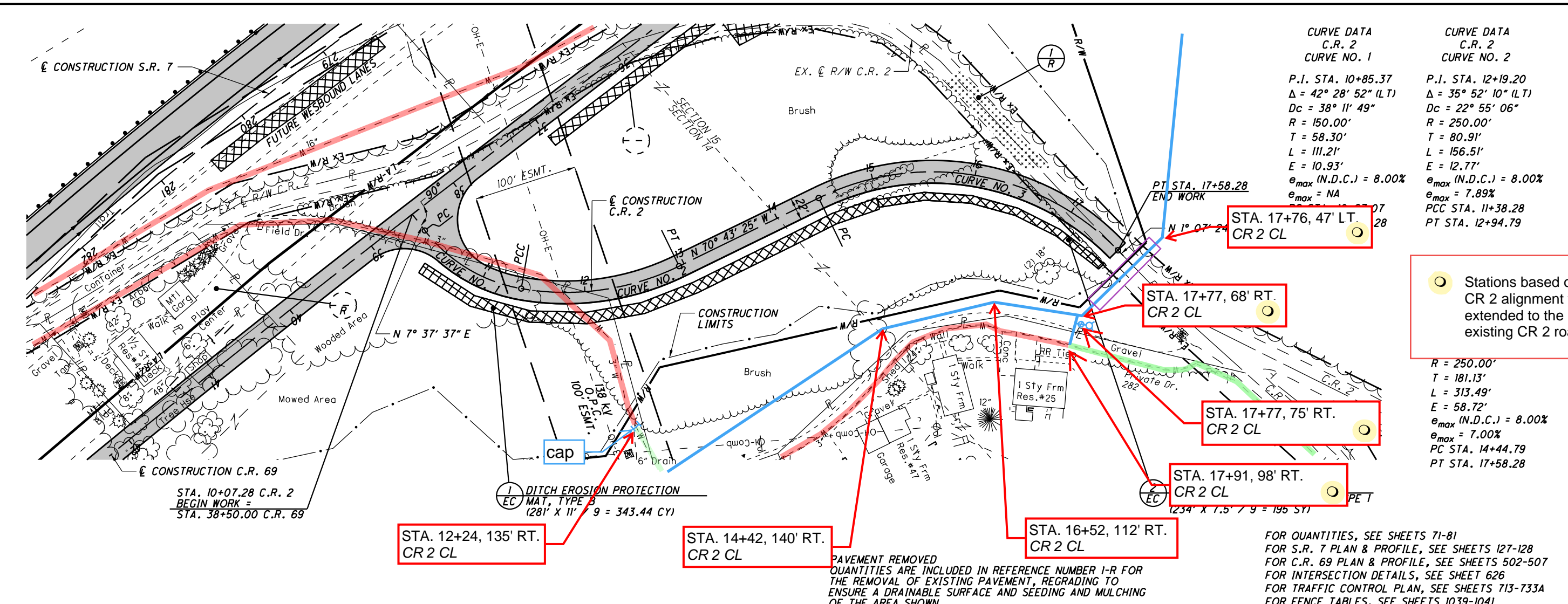
**CROSS SECTIONS S.R. 7**  
**STA. 283+50.00 TO STA. 284+50.00**

**LAW - 7 - 2.17**

32  
 283  
 1247



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CURVE DATA C.R. 2 CURVE NO. 1		CURVE DATA C.R. 2 CURVE NO. 2	
P.I. STA.	10+85.37	P.I. STA.	12+19.20
$\Delta$	42° 28' 52" (LT)	$\Delta$	35° 52' 10" (LT)
Dc	38° 11' 49"	Dc	22° 55' 06"
R	150.00'	R	250.00'
T	58.30'	T	80.91'
L	111.21'	L	156.51'
E	10.93'	E	12.77'
$e_{max}$ (N.D.C.)	8.00%	$e_{max}$ (N.D.C.)	8.00%
$e_{max}$	NA	$e_{max}$	7.89%
		PCC STA.	11+38.28
		PT STA.	12+94.79

Stations based on if CR 2 alignment was extended to the existing CR 2 road

R	250.00'
T	181.13'
L	313.49'
E	58.72'
$e_{max}$ (N.D.C.)	8.00%
$e_{max}$	7.00%
PC STA.	14+44.79
PT STA.	17+58.28

STA. 12+24, 135' RT. CR 2 CL

STA. 14+42, 140' RT. CR 2 CL

STA. 16+52, 112' RT. CR 2 CL

STA. 17+91, 98' RT. CR 2 CL

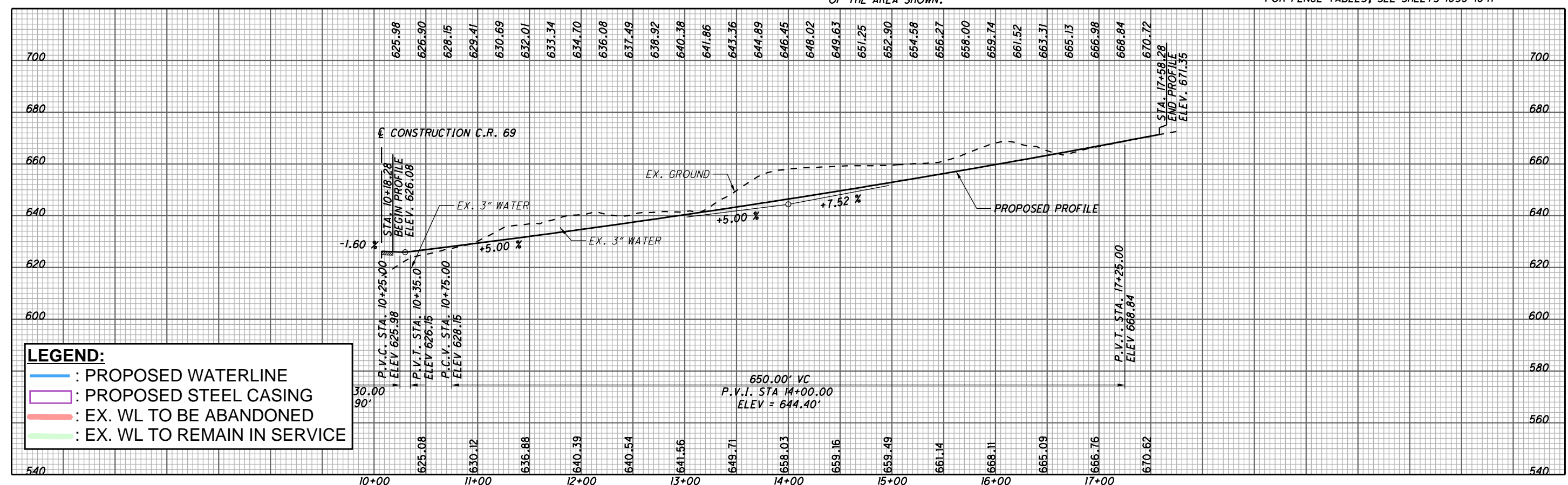
STA. 17+77, 75' RT. CR 2 CL

STA. 17+77, 68' RT. CR 2 CL

STA. 17+76, 47' LT. CR 2 CL

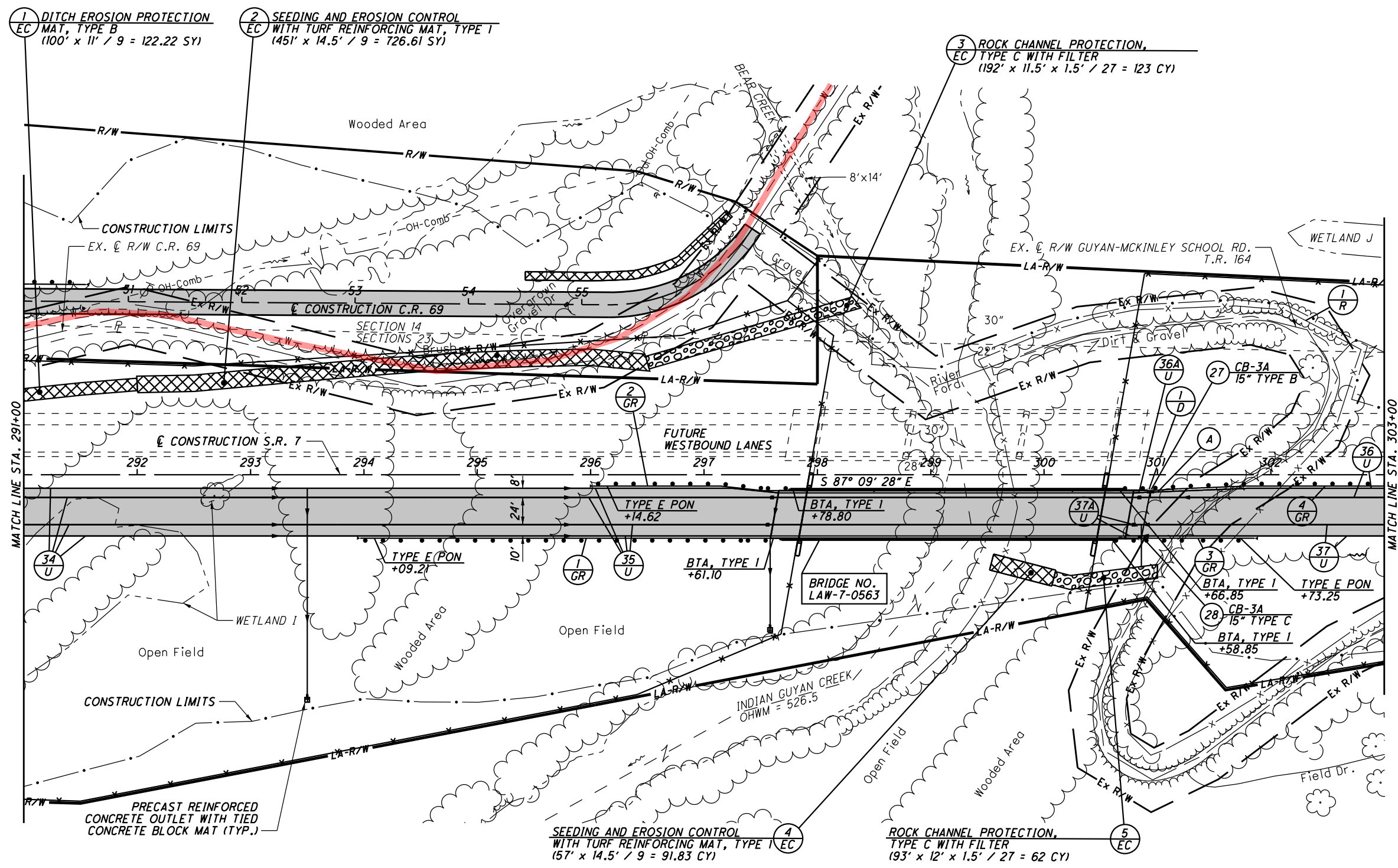
PAVEMENT REMOVED QUANTITIES ARE INCLUDED IN REFERENCE NUMBER I-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.

FOR QUANTITIES, SEE SHEETS 71-81  
FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 127-128  
FOR C.R. 69 PLAN & PROFILE, SEE SHEETS 502-507  
FOR INTERSECTION DETAILS, SEE SHEET 626  
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
FOR FENCE TABLES, SEE SHEETS 1039-1041



**LEGEND:**

- : PROPOSED WATERLINE
- : PROPOSED STEEL CASING
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE



**LEGEND:**  
 — : EX. WL TO BE ABANDONED  
 ■ - PROPOSED PAVEMENT

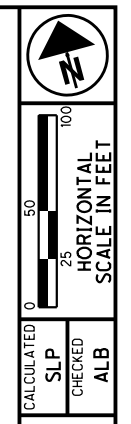
A -  
 STA. 300+78.70  
 BEGIN SHOULDER TAPER, 16' RT.  
 STA. 301+78.70  
 END SHOULDER TAPER, 12' RT.

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 130  
 FOR C.R. 69 PLAN AND PROFILE, SEE SHEETS 502-507  
 FOR STORM SEWER PROFILE, SEE SHEET 643  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR STRUCTURES 20' AND OVER, SEE SHEETS 907-930  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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CURVE DATA  
 S.R. 7  
 CURVE NO. 9  
 P.I. STA. 387+47.15  
 $\Delta = 46^\circ 04' 34''$  (LT)  
 $Dc = 2^\circ 29' 28''$   
 $R = 2,300.00'$   
 $T = 805.51'$   
 $\theta_s = 3^\circ 44' 12''$   
 $L_s = 300.00'$   
 $T_s = 1,128.77'$   
 $LT = 200.04'$   
 $ST = 100.04'$   
 $e_{max} = 6.20\%$   
 CS STA. 394+68.00  
 ST STA. 397+68.00

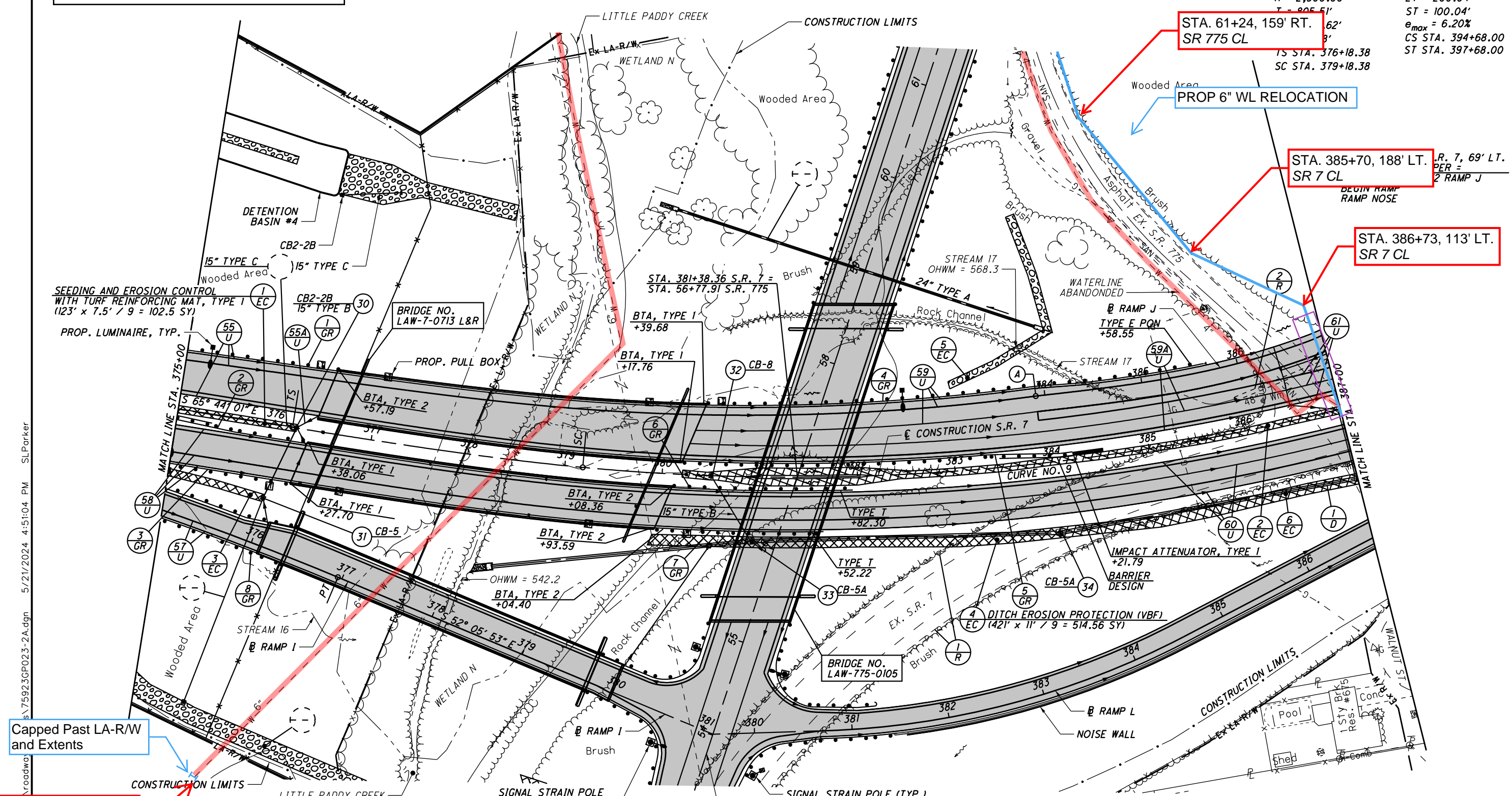
**LEGEND:**  
 — : PROPOSED WATERLINE  
 — : PROPOSED STEEL CASING  
 — : EX. WL TO BE ABANDONED



CALCULATED SLP CHECKED ALB

PLAN - S.R. 7  
 STA. 375+00 TO STA. 387+00

LAW-7-2.17  
 35  
 144  
 1247



Capped Past LA-R/W and Extents

STA. 373+88, 631' RT.  
 SR 7 CL

STA. 61+24, 159' RT.  
 SR 775 CL

STA. 385+70, 188' LT.  
 SR 7 CL

STA. 386+73, 113' LT.  
 SR 7 CL

- (EC) MAT, TYPE B (681' x 7.5' / 9 = 567.5 SY)
- (3) SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE T (101' x 7.5' / 9 = 84.17 SY)

- (5) ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (107' x 7.5' x 1.5' / 27 = 44.58 CY)
- (6) DITCH EROSION PROTECTION (VBF) (300' x 11' / 9 = 366.67 SY)

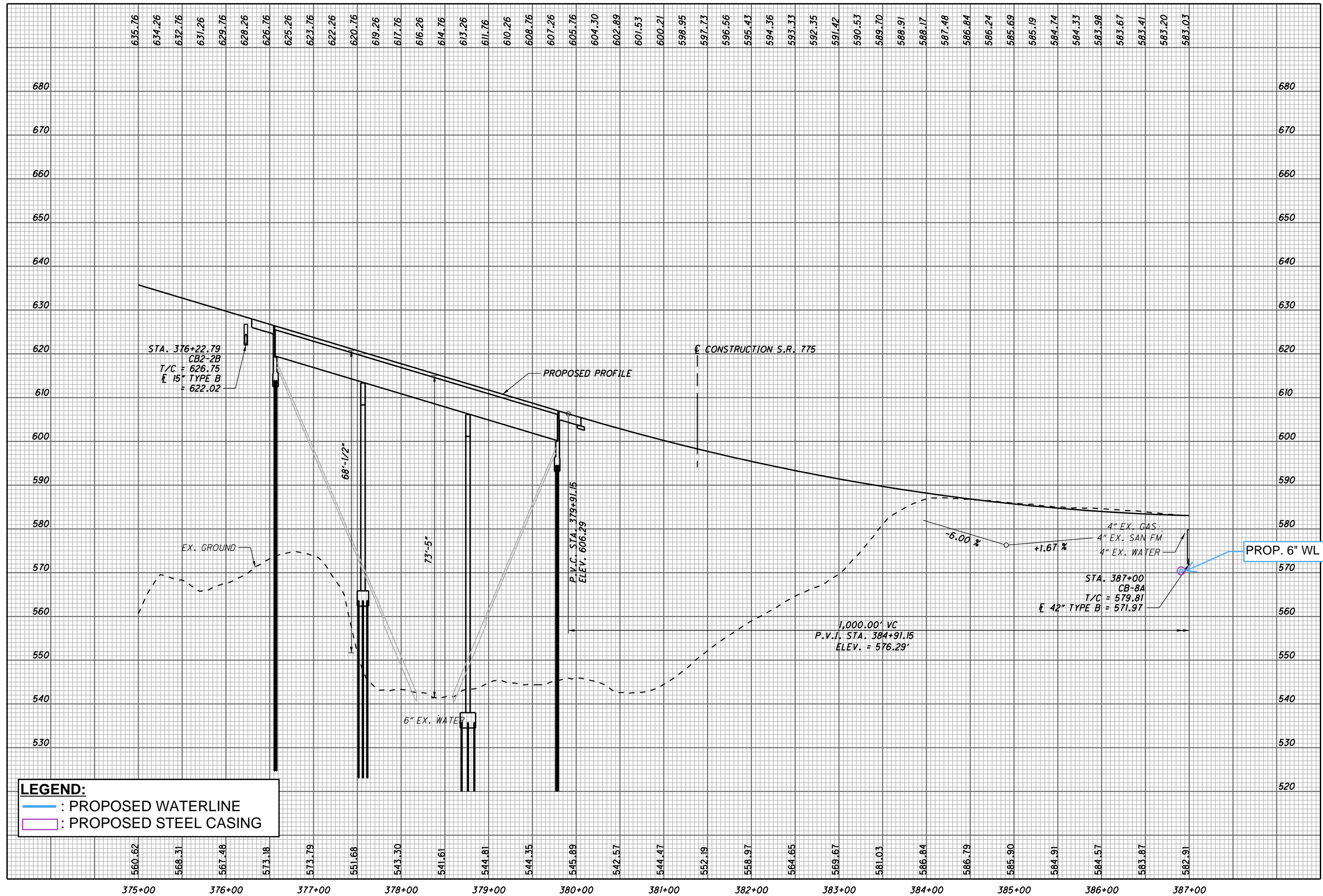
— - PROPOSED PAVEMENT

(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 145  
 FOR RAMP I PLAN AND PROFILE, SEE SHEET 431  
 FOR RAMP J PLAN AND PROFILE, SEE SHEET 437  
 FOR RAMP L PLAN AND PROFILE, SEE SHEET 457  
 FOR S.R. 775 PLAN AND PROFILE, SEE SHEETS 559-560  
 FOR INTERCHANGE DETAILS, SEE SHEETS 619-621  
 FOR INTERSECTION DETAILS, SEE SHEETS 627-628

FOR STORM SEWER PROFILES, SEE SHEETS 643 & 645  
 FOR CULVERT DETAILS, SEE SHEET 664  
 FOR DETENTION BASIN DETAILS, SEE SHEETS 665-673  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR STRUCTURE DETAILS, SEE SHEETS 931-1038  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

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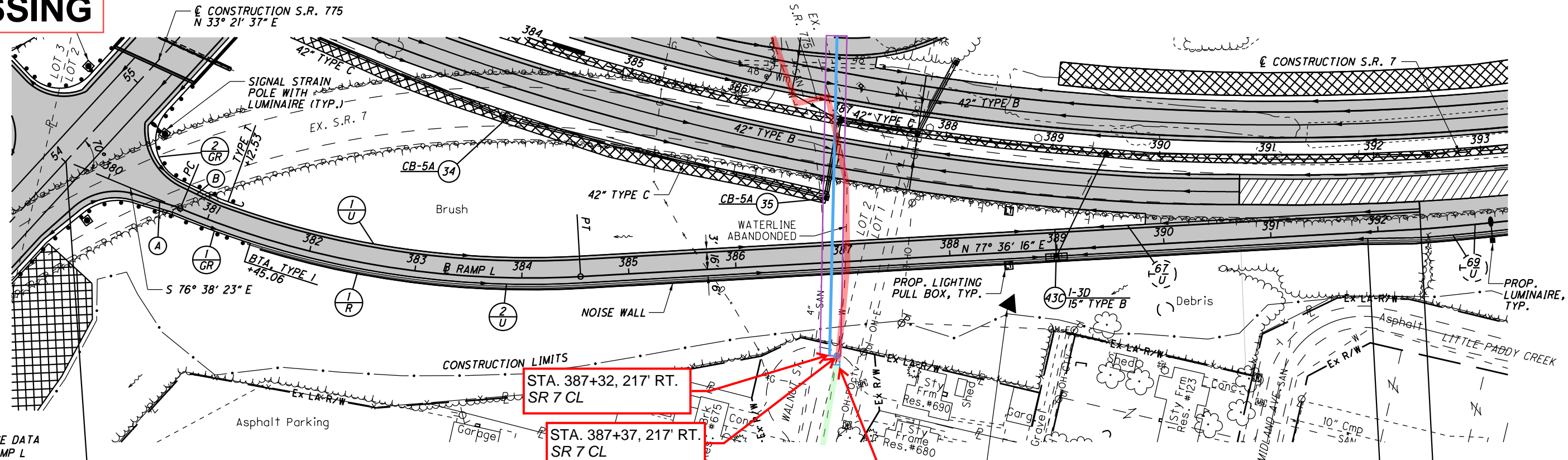
**LEGEND:**  
— : PROPOSED WATERLINE  
 : PROPOSED STEEL CASING

CALCULATED  
SLP  
CHECKED  
ALB

**PROFILE - S.R. 7**  
**STA. 375+00 TO STA. 387+00**

**LAW - 7 - 2.17**

# 6" CROSSING



**CURVE DATA**  
RAMP L

P.I. STA. 382+67.06  
 $\Delta = 25^\circ 45' 21''$  (LT)  
 $D_c = 6^\circ 44' 26''$   
 $R = 850.00'$   
 $T = 194.33'$   
 $L = 382.09'$   
 $E = 21.93'$   
 $e_{max} = 4.60\%$   
 PC STA. 380+72.73  
 PT STA. 384+54.82

STA. 379+57.36  
 BEGIN RAMP =  
 STA. 54+00.89 S.R. 775 =  
 STA. 381+12.92 RAMP 1

- (1) GR - INCLUDES 50' OF 50' RADIUS SHOP CURVED GUARDRAIL
- (2) GR - INCLUDES 75' OF 41' RADIUS SHOP CURVED GUARDRAIL

▨ - PROPOSED PAVEMENT  
 ▨ - 3-1/4" MILL/FILL

STA. 387+32, 217' RT.  
 SR 7 CL

STA. 387+37, 217' RT.  
 SR 7 CL

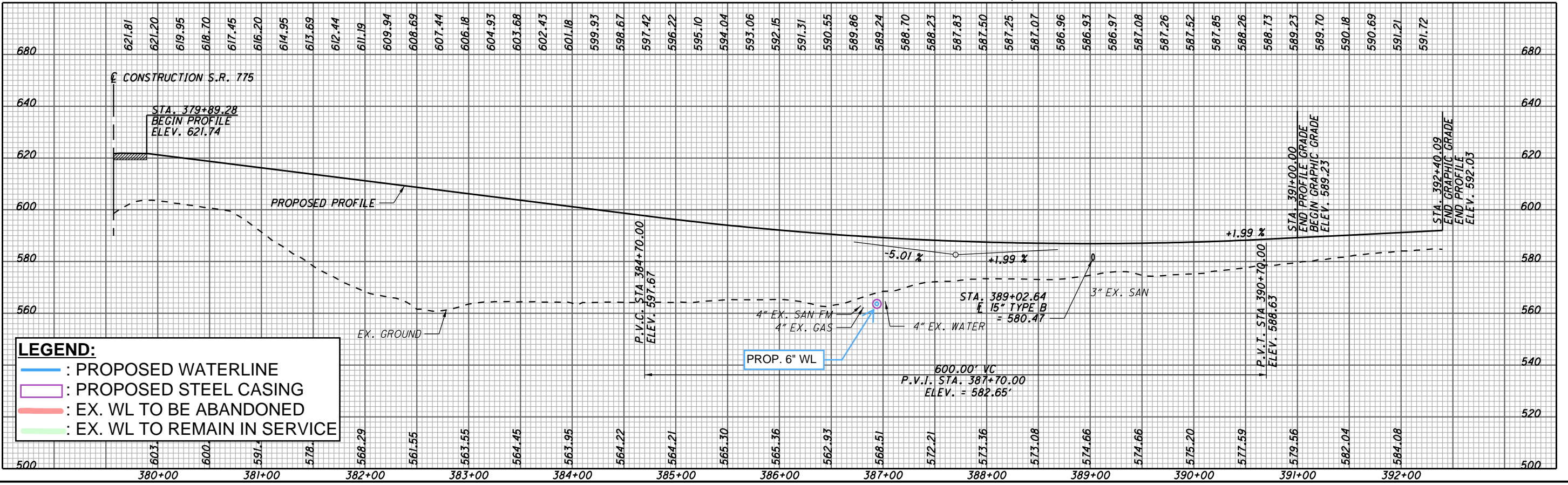
- (A) STA. 380+21.92  
 BEGIN PAVEMENT TAPER, 4' RT.  
 STA. 380+67.92  
 END PAVEMENT TAPER, 0' LT./RT.
- (B) STA. 380+65.49  
 BEGIN PAVEMENT TAPER, 19.07' LT.  
 STA. 381+06.26  
 END PAVEMENT TAPER, 16' LT.

STA. 387+42, 225' RT.  
 SR 7 CL

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 144-147  
 FOR INTERCHANGE DETAILS, SEE SHEETS 619-621  
 FOR INTERSECTION DETAILS, SEE SHEETS 627  
 FOR STORM DETAILS, SEE SHEETS 645-647  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

STA. 391+90.09  
 BEGIN SHOULDER TAPER, 6' RT.

STA. 392+40.09  
 END SHOULDER TAPER, 8' RT.  
 END RAMP  
 RAMP NOSE =  
 STA. 392+40.09, 69' RT. S.R. 7



**LEGEND:**

- : PROPOSED WATERLINE
- : PROPOSED STEEL CASING
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE



PLAN AND PROFILE  
RAMP L

LAW-7-2.17

37

457  
1247

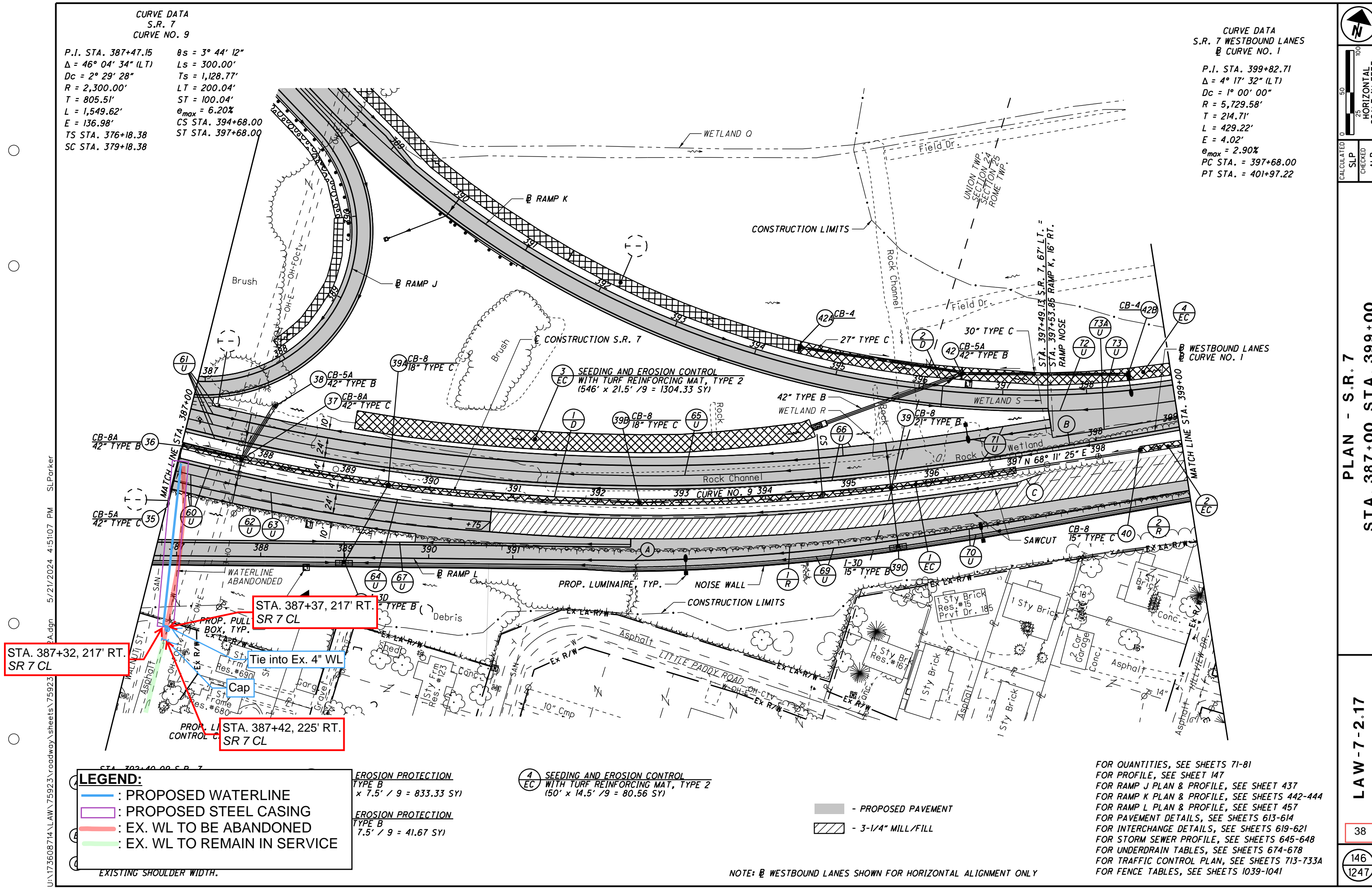
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CURVE DATA  
S.R. 7  
CURVE NO. 9

P.I. STA. 387+47.15  $\theta_s = 3^\circ 44' 12''$   
 $\Delta = 46^\circ 04' 34''$  (LT)  $L_s = 300.00'$   
 $D_c = 2^\circ 29' 28''$   $T_s = 1,128.77'$   
 $R = 2,300.00'$   $LT = 200.04'$   
 $T = 805.51'$   $ST = 100.04'$   
 $L = 1,549.62'$   $e_{max} = 6.20\%$   
 $E = 136.98'$   $CS STA. 394+68.00$   
 $TS STA. 376+18.38$   $ST STA. 397+68.00$   
 $SC STA. 379+18.38$

CURVE DATA  
S.R. 7 WESTBOUND LANES  
B CURVE NO. 1

P.I. STA. 399+82.71  
 $\Delta = 4^\circ 17' 32''$  (LT)  
 $D_c = 1^\circ 00' 00''$   
 $R = 5,729.58'$   
 $T = 214.71'$   
 $L = 429.22'$   
 $E = 4.02'$   
 $e_{max} = 2.90\%$   
 $PC STA. = 397+68.00$   
 $PT STA. = 401+97.22$



**LEGEND:**

- : PROPOSED WATERLINE
- : PROPOSED STEEL CASING
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE

EXISTING SHOULDER WIDTH.

<p><b>EROSION PROTECTION</b> TYPE B x 7.5' / 9 = 833.33 SY)</p> <p><b>EROSION PROTECTION</b> TYPE B 7.5' / 9 = 41.67 SY)</p>	<p><b>4</b> SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (150' x 14.5' / 9 = 80.56 SY)</p>
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	- PROPOSED PAVEMENT
	- 3-1/4" MILL/FILL

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR PROFILE, SEE SHEET 147  
 FOR RAMP J PLAN & PROFILE, SEE SHEET 437  
 FOR RAMP K PLAN & PROFILE, SEE SHEETS 442-444  
 FOR RAMP L PLAN & PROFILE, SEE SHEET 457  
 FOR PAVEMENT DETAILS, SEE SHEETS 613-614  
 FOR INTERCHANGE DETAILS, SEE SHEETS 619-621  
 FOR STORM SEWER PROFILE, SEE SHEETS 645-648  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041

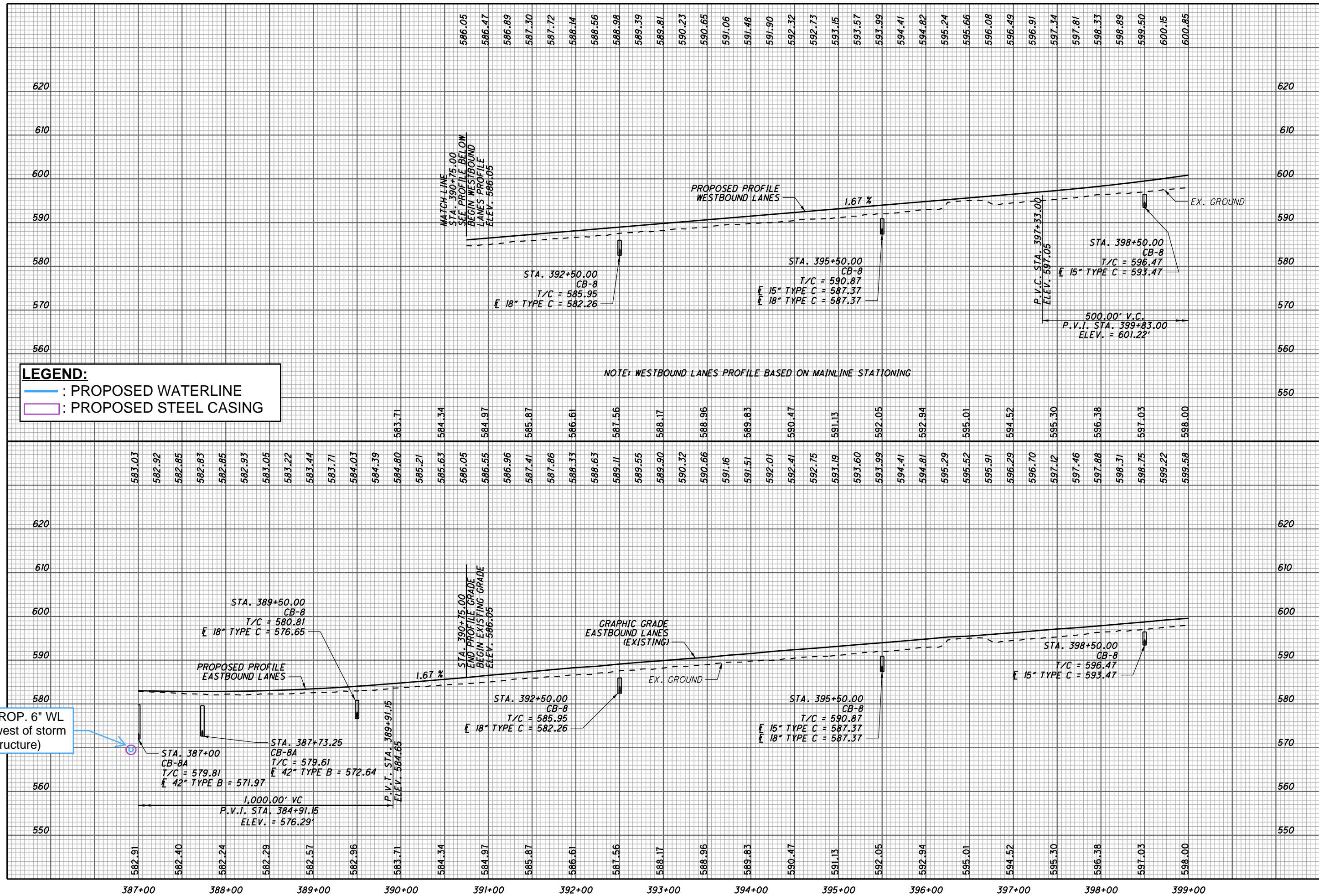
NOTE: B WESTBOUND LANES SHOWN FOR HORIZONTAL ALIGNMENT ONLY

PLAN - S.R. 7  
STA. 387+00 STA. 399+00

LAW-7-2.17

38  
146  
1247

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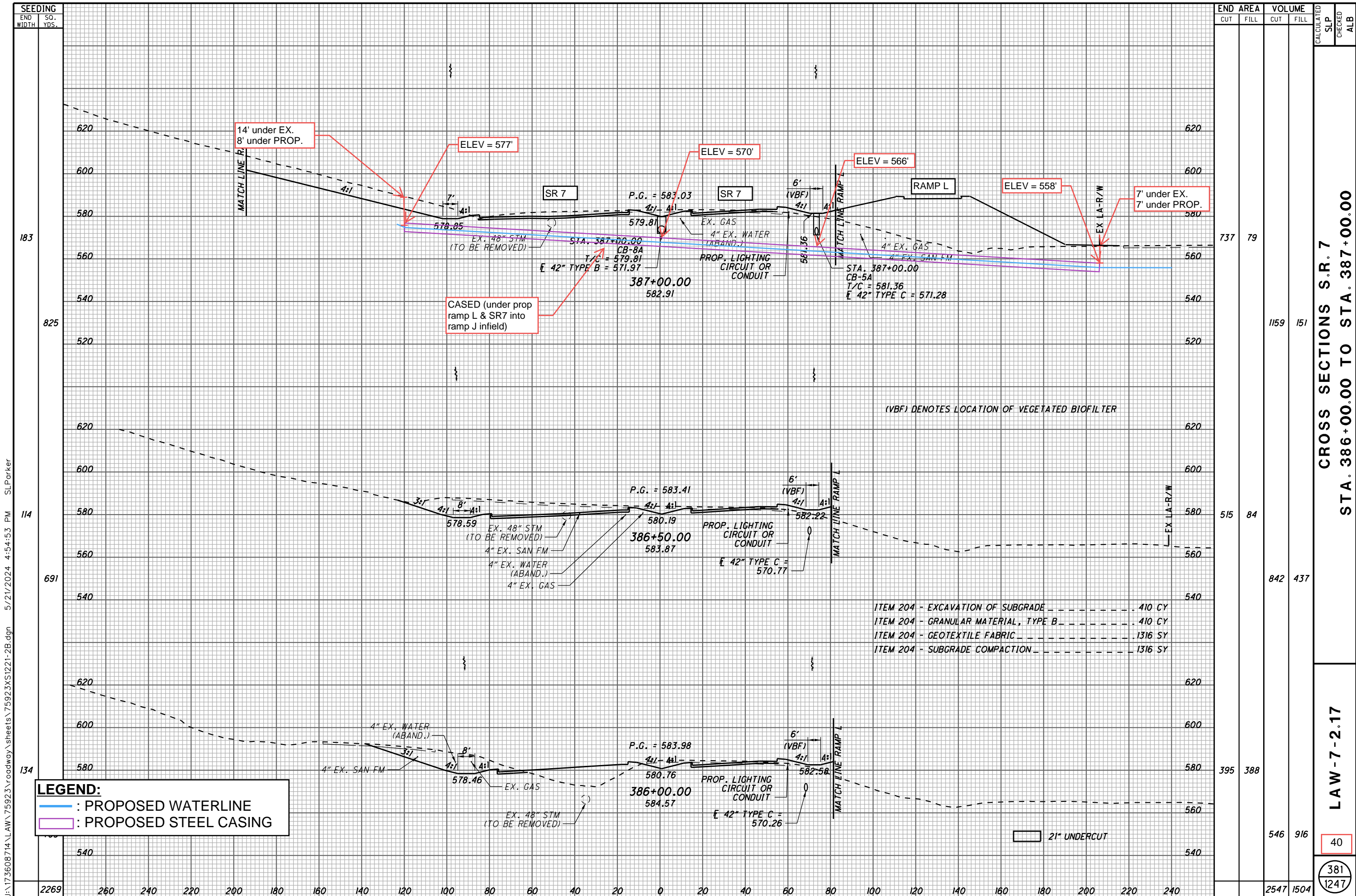
PROP. 6" WL  
(west of storm structure)

CALCULATED  
SLP  
CHECKED  
ALB

PROFILE - S.R. 7  
STA. 387+00 TO STA. 399+00

LAW - 7 - 2.17

39  
147  
1247

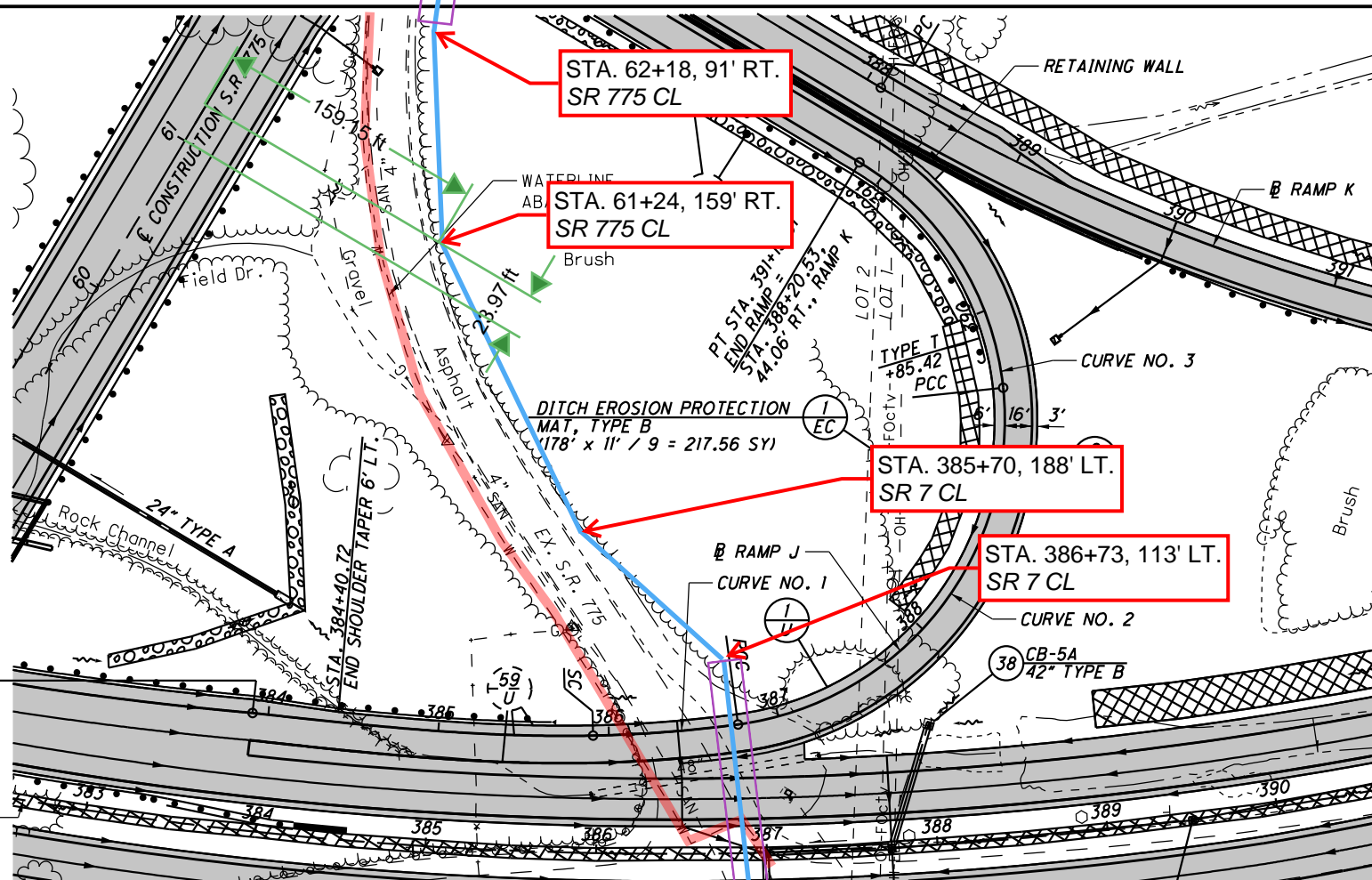


CROSS SECTIONS S.R. 7  
 STA. 386+00.00 TO STA. 387+00.00

LAW - 7 - 2.17  
 40  
 381  
 1247

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ST STA. 383+90.72  
 BEGIN SHOULDER TAPER, 8' LT.  
 BEGIN RAMP  
 RAMP NOSE =  
 STA. 383+90.72, 69' LT., S.R. 7

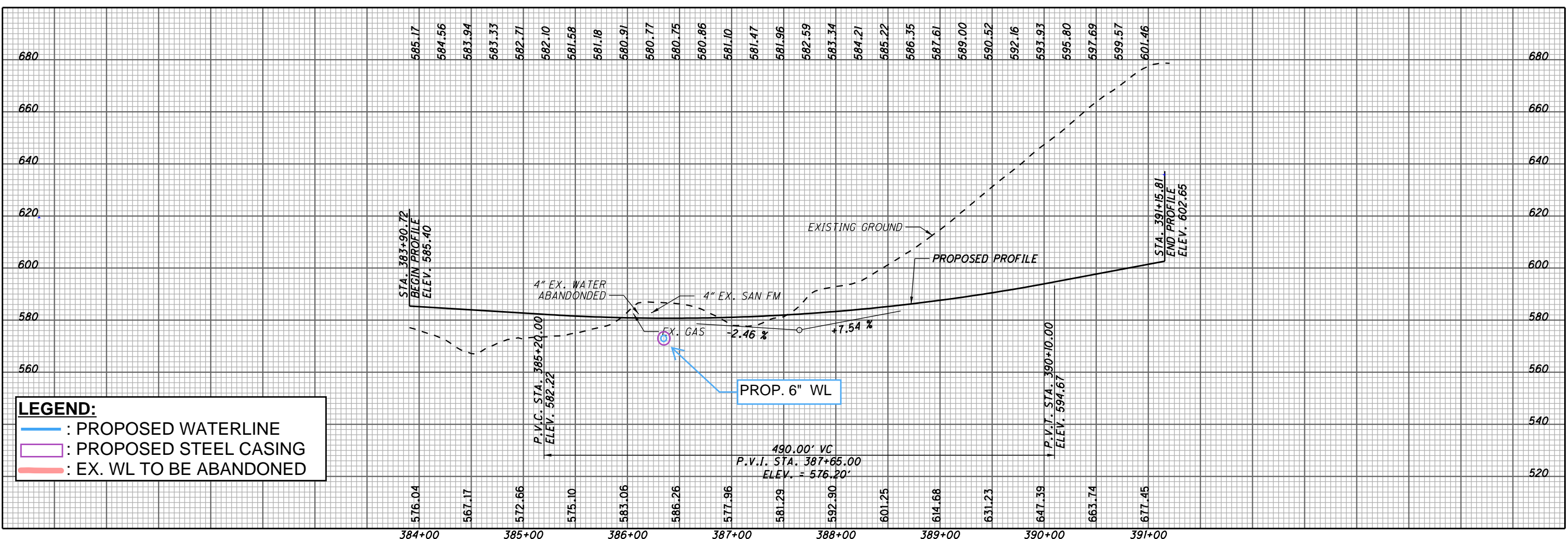
CONSTRUCTION S.R. 7

- PROPOSED PAVEMENT

CURVE DATA RAMP J CURVE NO. 1	
P.I. STA. 385+74.87	$\theta_{back} = 7^\circ 30' 00''$
$\Delta = 13^\circ 53' 07''$ (LT)	$L_{back} = 200.00'$
$Dc = 7^\circ 30' 00''$	$T_{back} = 184.15'$
$R = 763.94'$	$LT = 133.45'$
$T = 42.61'$	$ST = 66.78'$
$L = 85.14'$	$e_{max}$ (N.D.C.) = 8.00%
$E = 1.19'$	$e_{max} = 6.20\%$
TS STA. 383+90.72	PCC STA. 386+75.86
SC STA. 385+90.72	

CURVE DATA RAMP J CURVE NO. 2		CURVE DATA RAMP J CURVE NO. 3	
P.I. Sta. 388+50.86	$\Delta = 88^\circ 23' 15''$ (LT)	P.I. Sta. 390+41.04	$\Delta = 53^\circ 07' 48''$ (LT)
$Dc = 31^\circ 49' 52''$	$R = 180.00'$	$Dc = 32^\circ 44' 26''$	$R = 175.00'$
$T = 175.00'$	$L = 175.00'$	$T = 87.50'$	$L = 162.28'$
$L = 277.68'$	$E = 71.05'$	$E = 20.66'$	
$e_{max} = 7.66\%$	PCC Sta. 386+75.86	$e_{max} = 7.73\%$	PCC Sta. 389+53.54
PCC Sta. 389+53.54	PT Sta. 391+15.81		

FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 144-147  
 FOR RAMP K PLAN AND PROFILE, SEE SHEETS 442-444  
 FOR S.R. 775 PLAN & PROFILE, SEE SHEETS 559-560  
 FOR INTERCHANGE DETAILS, SEE SHEETS 619-621  
 FOR STORM SEWER PROFILE, SEE SHEET 645  
 FOR CULVERT DETAILS, SEE SHEET 664  
 FOR UNDERDRAIN TABLES, SEE SHEETS 674-678  
 FOR RETAINING WALL DETAILS, SEE SHEETS 706-712  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
 FOR FENCE TABLES, SEE SHEETS 1039-1041



**LEGEND:**  
 — : PROPOSED WATERLINE  
 — : PROPOSED STEEL CASING  
 — : EX. WL TO BE ABANDONED

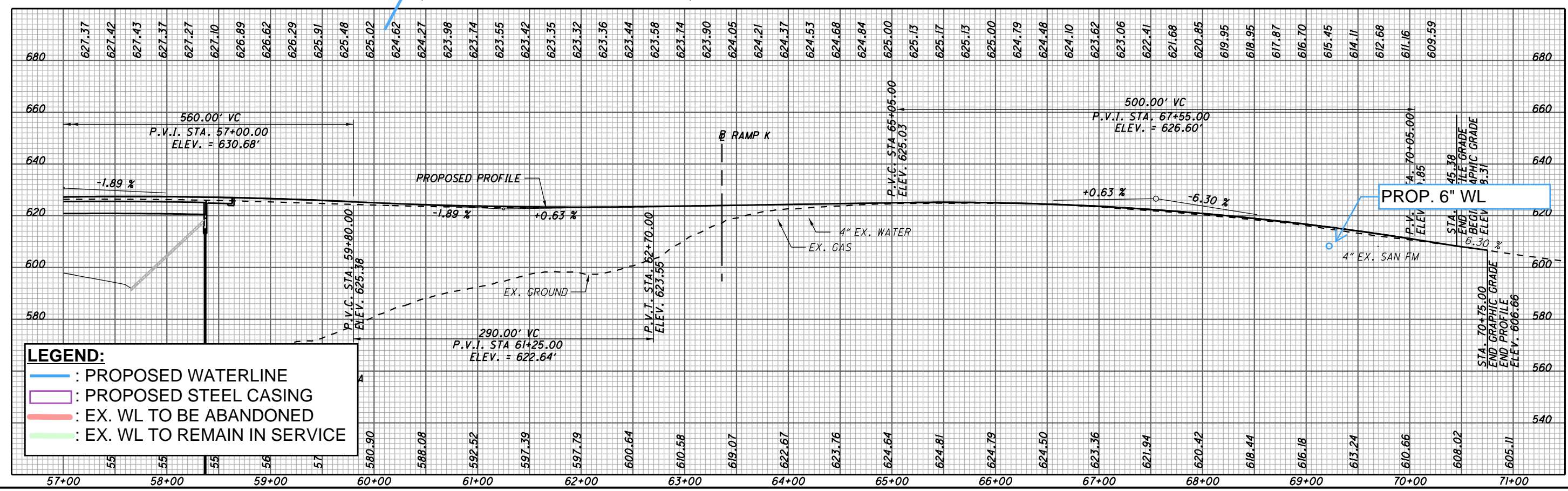
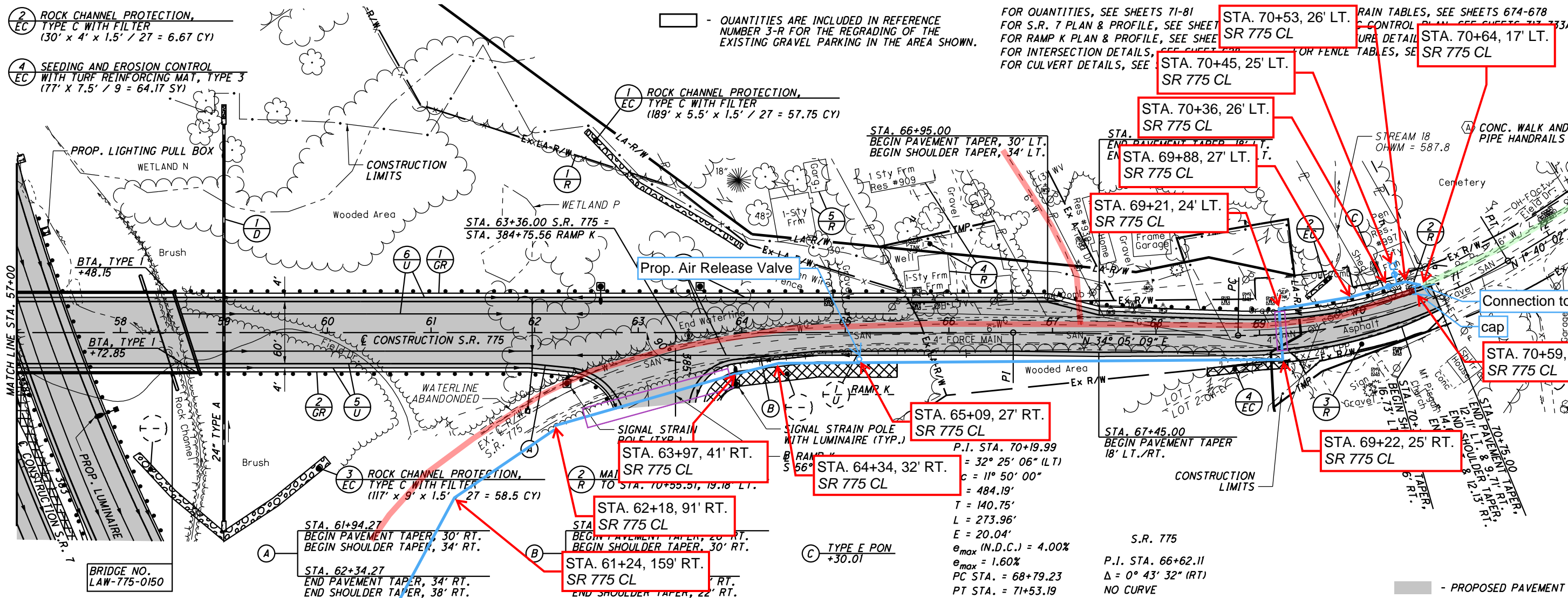


PLAN AND PROFILE  
 RAMP J

LAW - 7 - 2.17

41  
 437  
 1247

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**LEGEND:**

- : PROPOSED WATERLINE
- : PROPOSED STEEL CASING
- : EX. WL TO BE ABANDONED
- : EX. WL TO REMAIN IN SERVICE

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FOR QUANTITIES, SEE SHEETS 71-81  
 FOR S.R. 7 PLAN & PROFILE, SEE SHEET 71-81  
 FOR RAMP K PLAN & PROFILE, SEE SHEET 71-81  
 FOR INTERSECTION DETAILS, SEE SHEET 71-81  
 FOR CULVERT DETAILS, SEE SHEET 71-81

PLAN AND PROFILE - S.R. 7  
 STA. 57+00.00 TO STA. 70+00.00

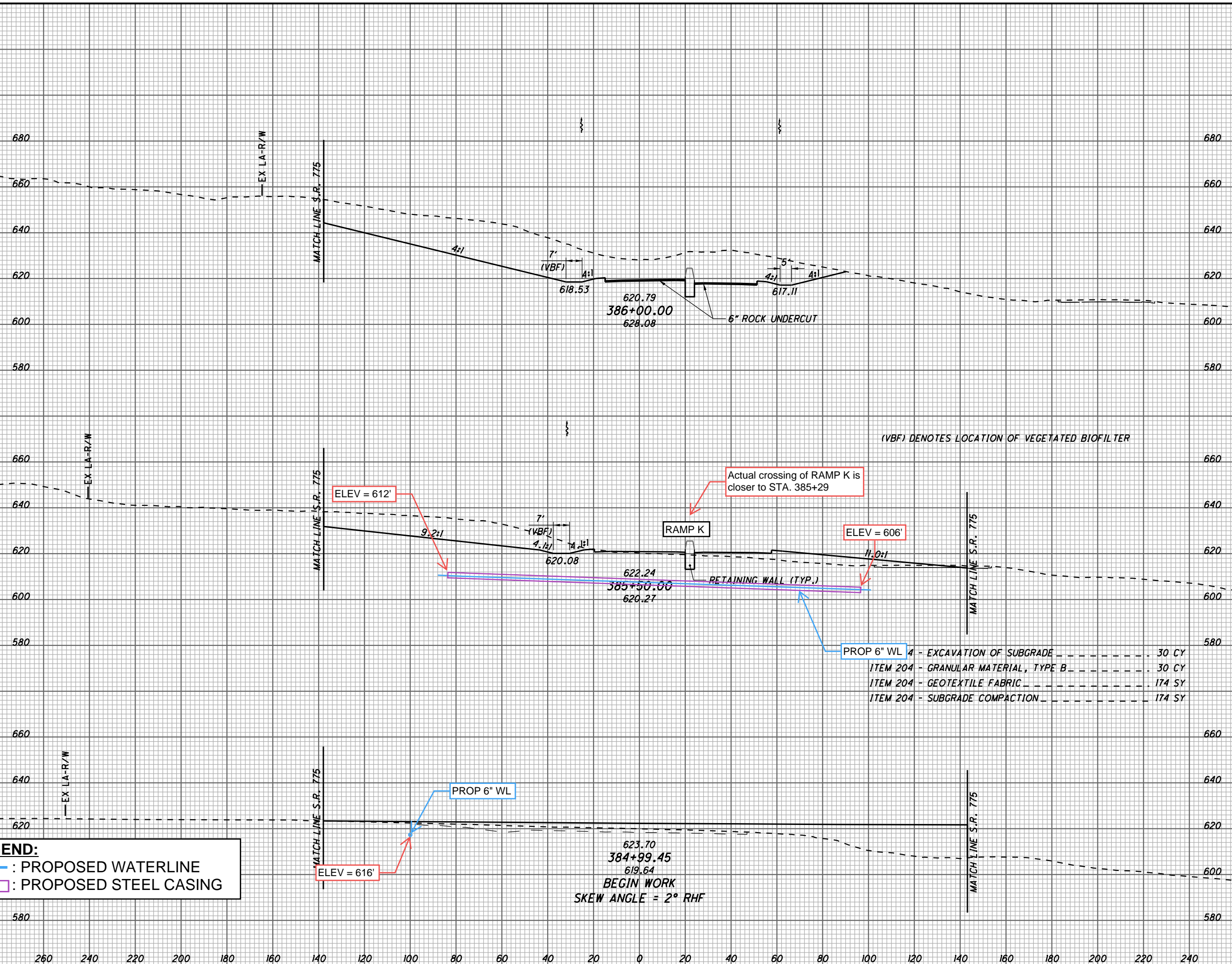
LAW-7-2.17

42

560  
1247

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SEEDING	
END WIDTH	SO. YDS.
172	
1052	
207	
581	
0	
1633	

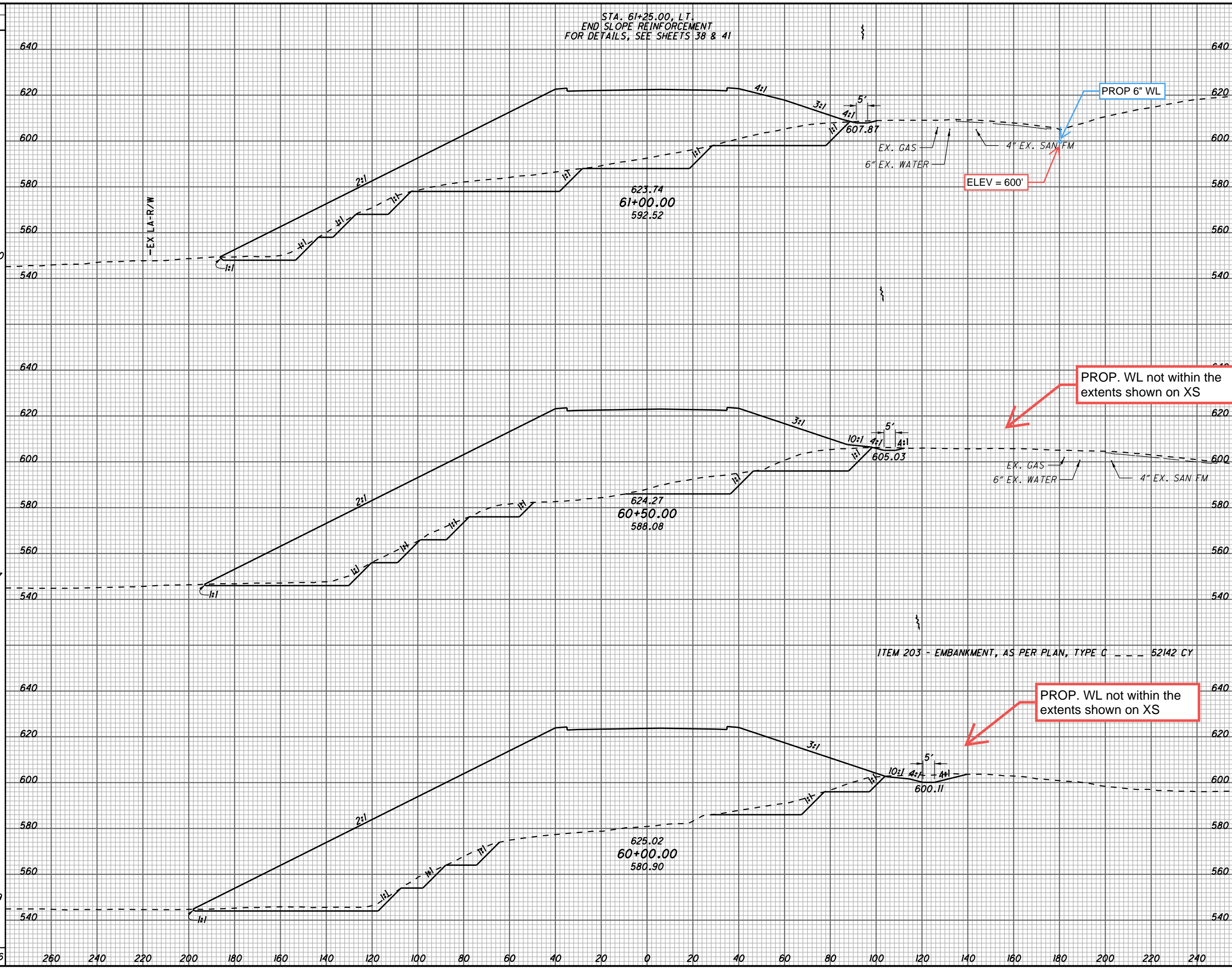


END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	SLP	ALB
2854	0	3491	300		
916	324	858	1638		
0	1426				
4349	1938			43	
				445	
				1247	

**CROSS SECTIONS RAMP K**  
**STA. 384+99.45 TO STA. 386+00.00**

**LAW - 7 - 2.17**

SEEDING  
END WIDTH SO. YDS.  
247  
267  
301  
1769  
6386



STA. 61+25.00, LT.  
END SLOPE REINFORCEMENT  
FOR DETAILS, SEE SHEETS 38 & 41

ELEV = 600'

PROP 6" WL

PROP. WL not within the  
extends shown on XS

PROP. WL not within the  
extends shown on XS

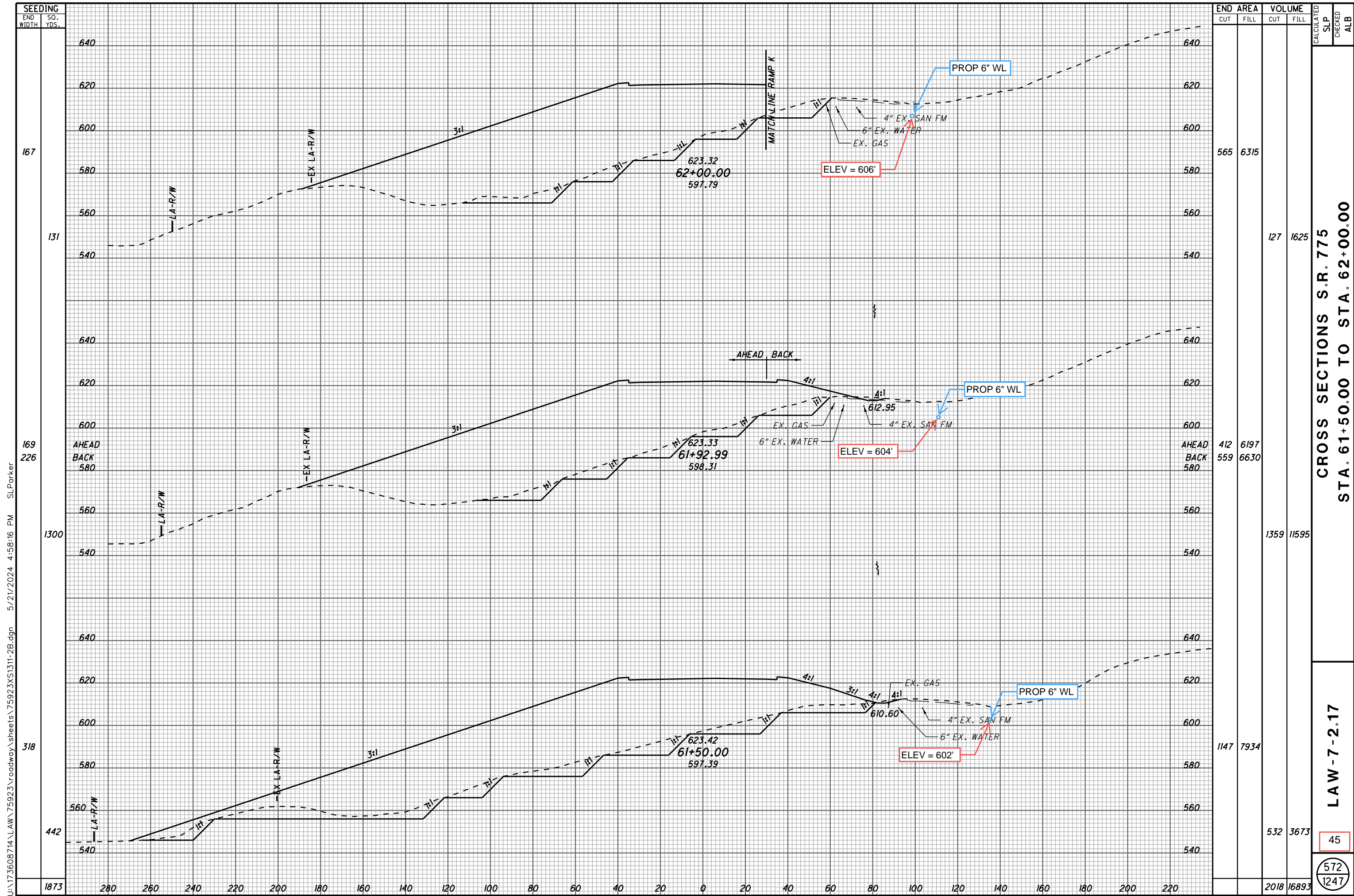
ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C - - - 52142 CY

END AREA	VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL		
1101	0	0		
3108	0	0		
915	0	0		
1382	0	0		
577	0	0		
813	0	0		
5303	0	0		

CROSS SECTIONS S.R. 775  
STA. 60+00.00 TO STA. 61+00.00

LAW - 7 - 2.17  
44  
571  
1247

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END STA.	SEEDING		END AREA		VOLUME		CALCULATED SLP	CHECKED	ALB
	END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL			
167			565	6315					
131					127	1625			
169			412	6197					
226			559	6630					
1300					1359	11595			
318			1147	7934					
442					532	3673			
1873					2018	16893			

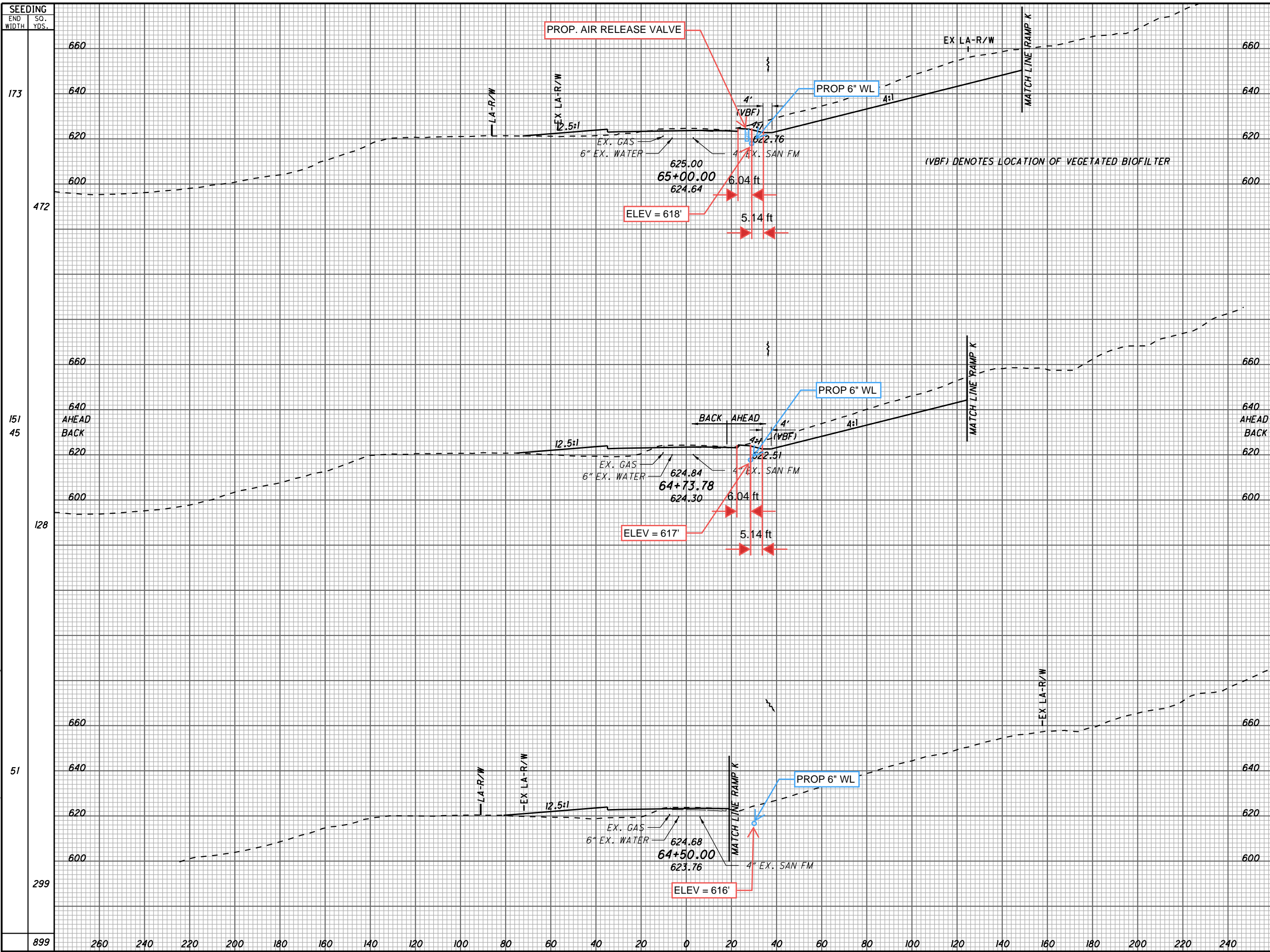
CROSS SECTIONS S.R. 775  
 STA. 61+50.00 TO STA. 62+00.00

LAW - 7 - 2.17

45  
 572  
 1247

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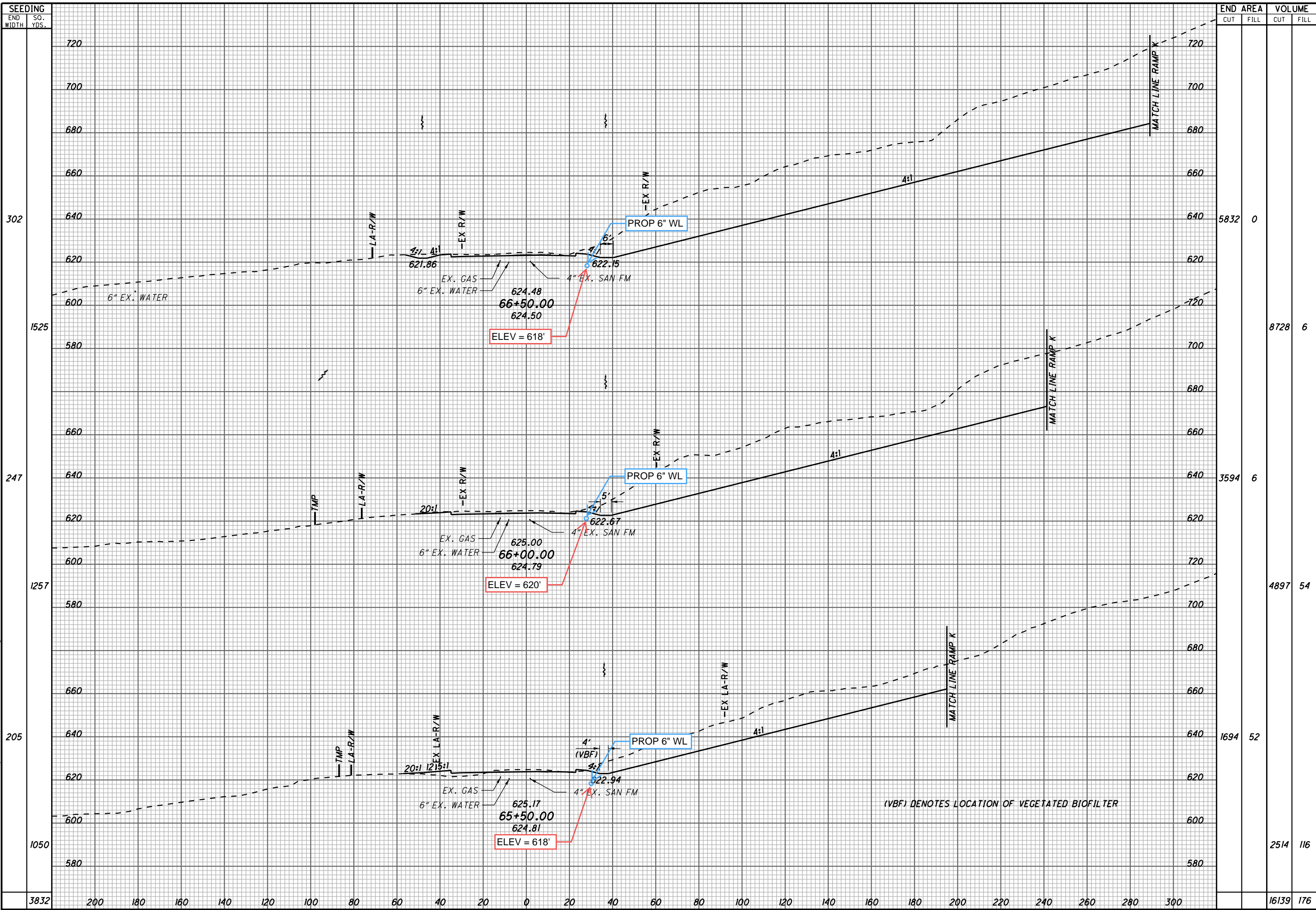


SEEDING END WIDTH SO. YDS.	END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL	CUT	FILL		
173	1021	73	807	117		
151	640	167	3	167		
51	2	212	188	1045		
299			998	1329		

CROSS SECTIONS S.R. 775  
STA. 64+00.00 TO STA. 65+00.00

LAW - 7 - 2.17  
46  
575  
1247

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SEEDING	END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL	CUT	FILL		
3832	5832	0	8728	6		
1525	3594	6	4897	54		
247	1694	52	2514	116		
1257			16139	176		

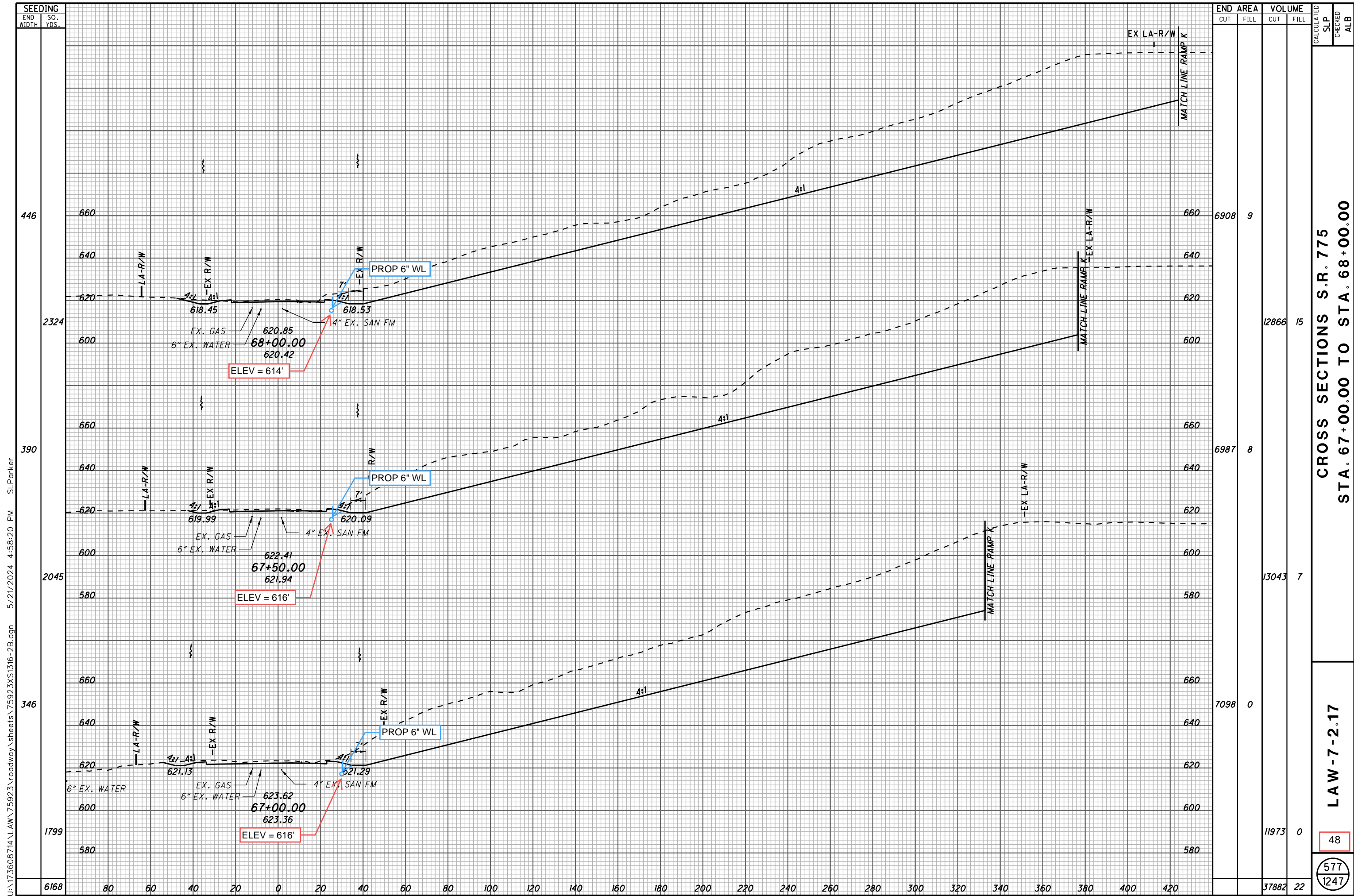
CROSS SECTIONS S.R. 775  
STA. 65+50.00 TO STA. 66+50.00

LAW - 7 - 2.17

47

576  
1247

(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER



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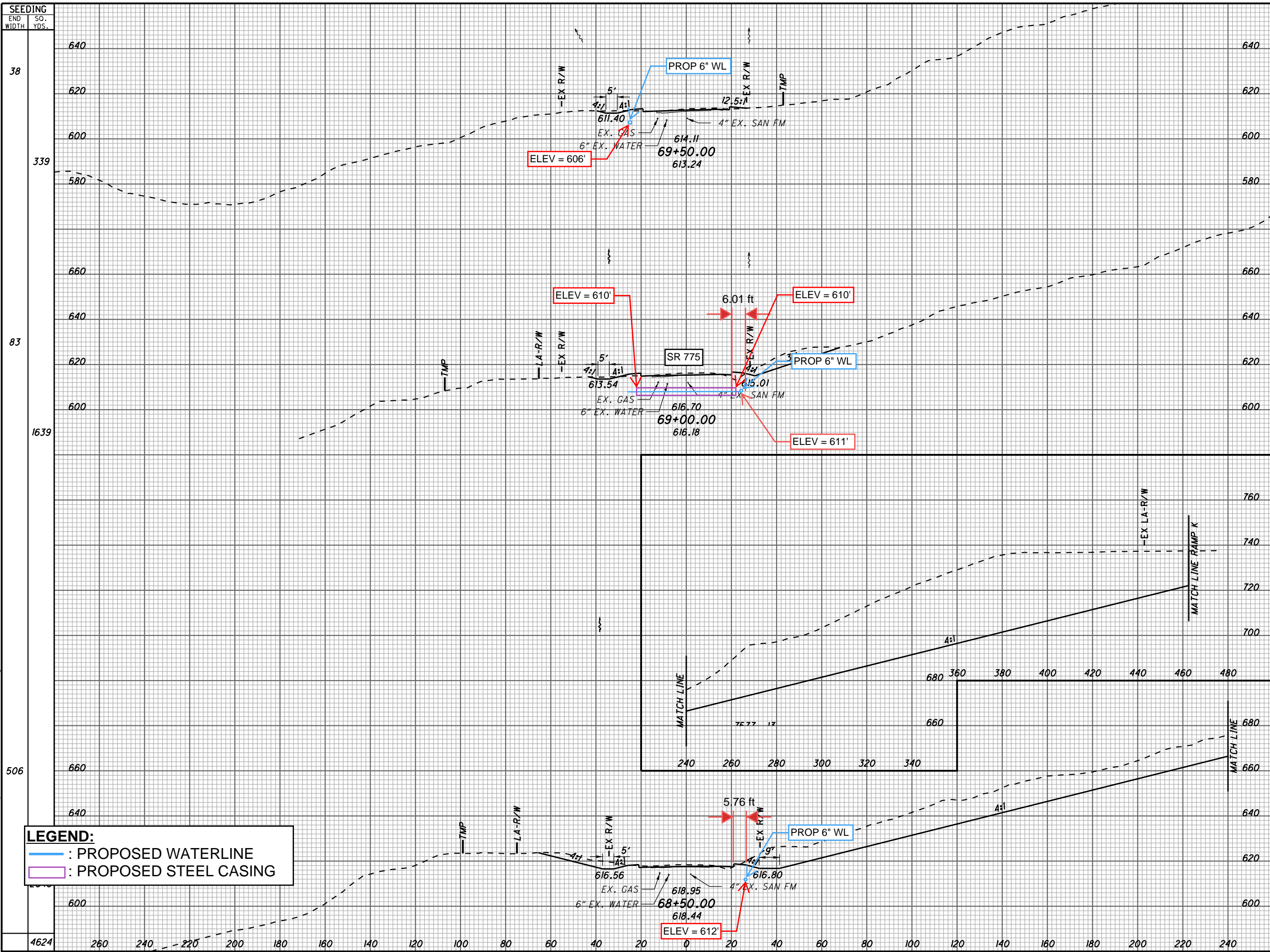
END AREA	VOLUME		CALCULATED SLP	CHECKED ALB
	CUT	FILL		
6908	9			
6987	8			
7098	0			
11973	0			
37882	22			

CROSS SECTIONS S.R. 775  
STA. 67+00.00 TO STA. 68+00.00

LAW - 7 - 2.17  
48  
577  
1247



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**LEGEND:**  
 — : PROPOSED WATERLINE  
 — : PROPOSED STEEL CASING

SEEDING	END AREA		VOLUME		CALCULATED SLP	CHECKED	ALB
	CUT	FILL	CUT	FILL			
38	11	25					
339			158	53			
83	160	32					
1639			7164	42			
506	7577	13					
4624			13412	21			
			20734	116			

CROSS SECTIONS S.R. 775  
 STA. 68+50.00 TO STA. 69+50.00

LAW - 7 - 2.17  
 49  
 578  
 1247