



South Carolina Department of Transportation

# PROPOSED PLANS FOR

## CITY OF GEORGETOWN PROJECT ID P030438 BLACK RIVER ROAD (S-22-82) WIDENING

SHEET NUMBER	DESCRIPTION	SHEET SUBTOTALS
1	TITLE SHEET	OMIT
1A	RIGHT OF WAY TITLE SHEET	1
2	SUMMARY OF ESTIMATED QUANTITIES	OMIT
3	TYPICAL SECTION	1
4-4A	R/W DATA SHEET	2
4B-4C	PROPERTY STRIP MAP	2
5	GENERAL CONSTRUCTION NOTE	OMIT
5A	SURVEY CONTROL DATA SHEET	1
5B-5F	REFERENCE DATA SHEETS	5
6-13	PLAN AND PROFILE SHEETS	8
14-18	CURB GRADES	5
EC1	EROSION CONTROL DATA SHEET	1
X1-X13	CROSS SECTIONS	11
XL1	CROSSLINE CROSS SECTIONS	1
TOTAL SHEETS		38

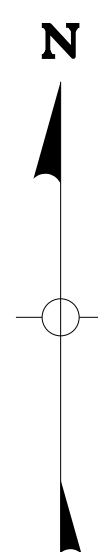
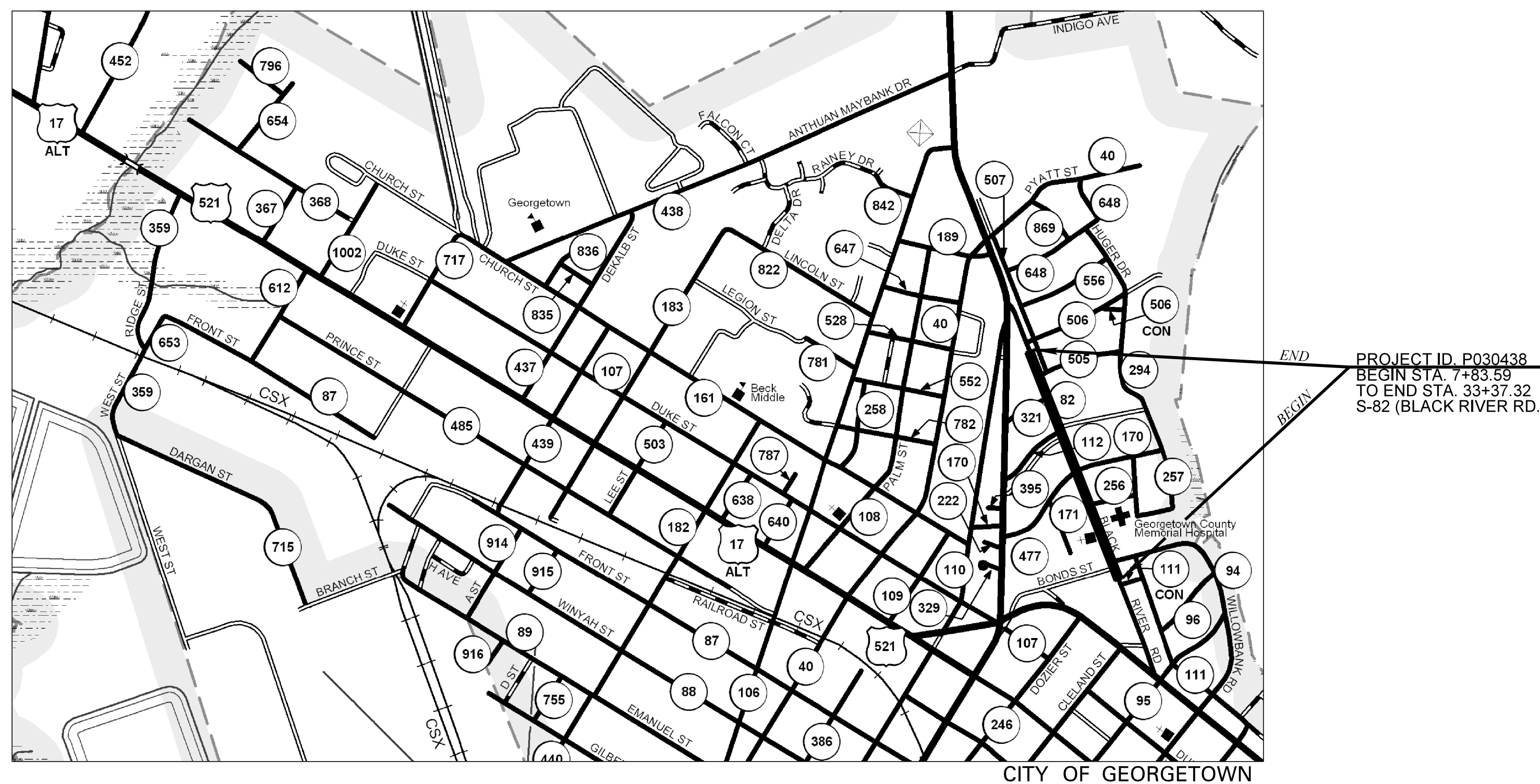
Hydraulic Design Reference for these plans is the:  
**2009**  
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:  
**2017**  
SCDOT Roadway Design Manual

NPDES PERMIT INFORMATION  
Disturbed Area = 4.6 Acre(s)  
Project Area = 6.6 Acre(s)

Approximate Location of Roadway is  
Begin  
Latitude 33°22'31.98"N  
Longitude 79°17'1.64"W  
End  
Latitude 33°22'55.68"N  
Longitude 79°17'12.14"W

Hydraulic and NPDES Design provided by:  
**S.C.D.O.T.**  
Designs may be obtained from the SCDOT Regional Production Group



ENVIRONMENTAL PERMIT INFORMATION			
USACE PERMIT	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
NEPA DOCUMENT	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
401 CERTIFICATION	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
OCRM CAP	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
NAVIGABLE WATERS	<input type="checkbox"/> SC	<input type="checkbox"/> USCG	<input type="checkbox"/> USACE <input checked="" type="checkbox"/> N/A

3 DAYS BEFORE DIGGING IN  
SOUTH CAROLINA  
**CALL 811**  
SOUTH CAROLINA 811 (SC811)  
WWW.SC811.COM  
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?  
YES  NO

TRAFFIC DATA	
2022 ADT	10,900
2042 ADT	13,100
TRUCKS	8.50 %

LAYOUT		
	S-82	TOTAL
NET LENGTH OF ROADWAY	0.484	0.484
NET LENGTH OF BRIDGES	-	-
NET LENGTH OF PROJECT	0.484	0.484
LENGTH OF EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	0.484	0.484

EQUALITIES IN STATIONING  
**NONE**  
NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

R.P.G. 2 - P.D.B.

	RIGHT-OF-WAY		CONSTRUCTION	
	INITIAL	DATE	INITIAL	DATE
RPG - ROAD				
RPG - HYDROLOGY				
RPG - STRUCTURES				
RPG - GEOTECHNICAL				
PRECONSTRUCTION SUPPORT - ROAD				
PRECONSTRUCTION SUPPORT - STRUCTURES				
RPG - DESIGN MANAGER				
RPG - PROGRAM MANAGER				

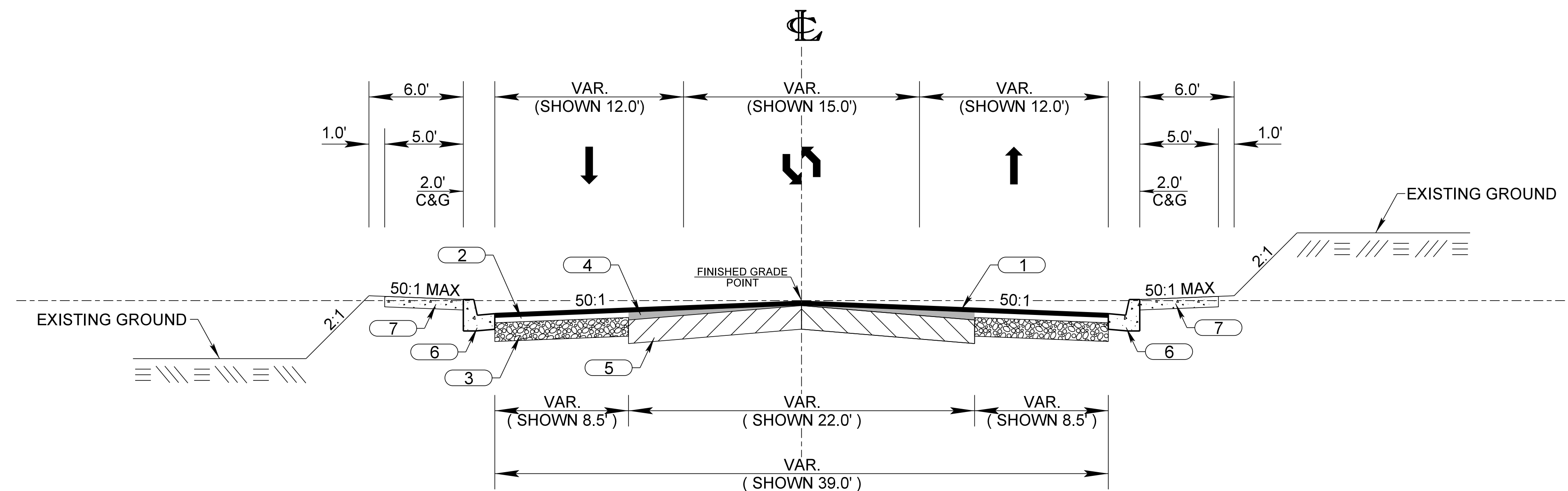
**For Right Of Way Acquisition:**  
\_\_\_\_\_  
Leah Quattlebaum, P.E.  
Regional Production Engineer  
\_\_\_\_\_  
Date

**ENGINEER OF RECORD**  
\_\_\_\_\_  
FOR CONSTRUCTION: \_\_\_\_\_  
DATE \_\_\_\_\_

# TYPICAL SECTION OF IMPROVEMENT

## SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

### COLUMBIA, S.C.



USE THIS SECTION ON S-82 (BLACK RIVER RD.)  
FROM STA. 7+83.59 TO STA. 33+37.32

**NOTE:**  
THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE C/L CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH. SEE PROFILE SHEETS FOR THE SPECIAL DITCH GRADES.

LEGEND		
1		HOT MIX ASPHALT SURFACE COURSE TYPE B (200 PSY)
2		HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B (400 PSY)
3		HOT MIX ASPHALT BASE COURSE TYPE A (800 PSY)
4		HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B FOR BUILD UP AND LEVELING
5		PAVEMENT IN PLACE - (RETAIN)
6		CONCRETE CURB & GUTTER (2'-0") VERTICAL FACE
7		CONCRETE SIDEWALK (4" UNIFORM)

**NOTE:**  
SEE STD. No. 720-105-01 FOR DETAIL OF 2'-0" CONC. CURB AND GUTTER  
ALL CURB RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING 720-900 SERIES

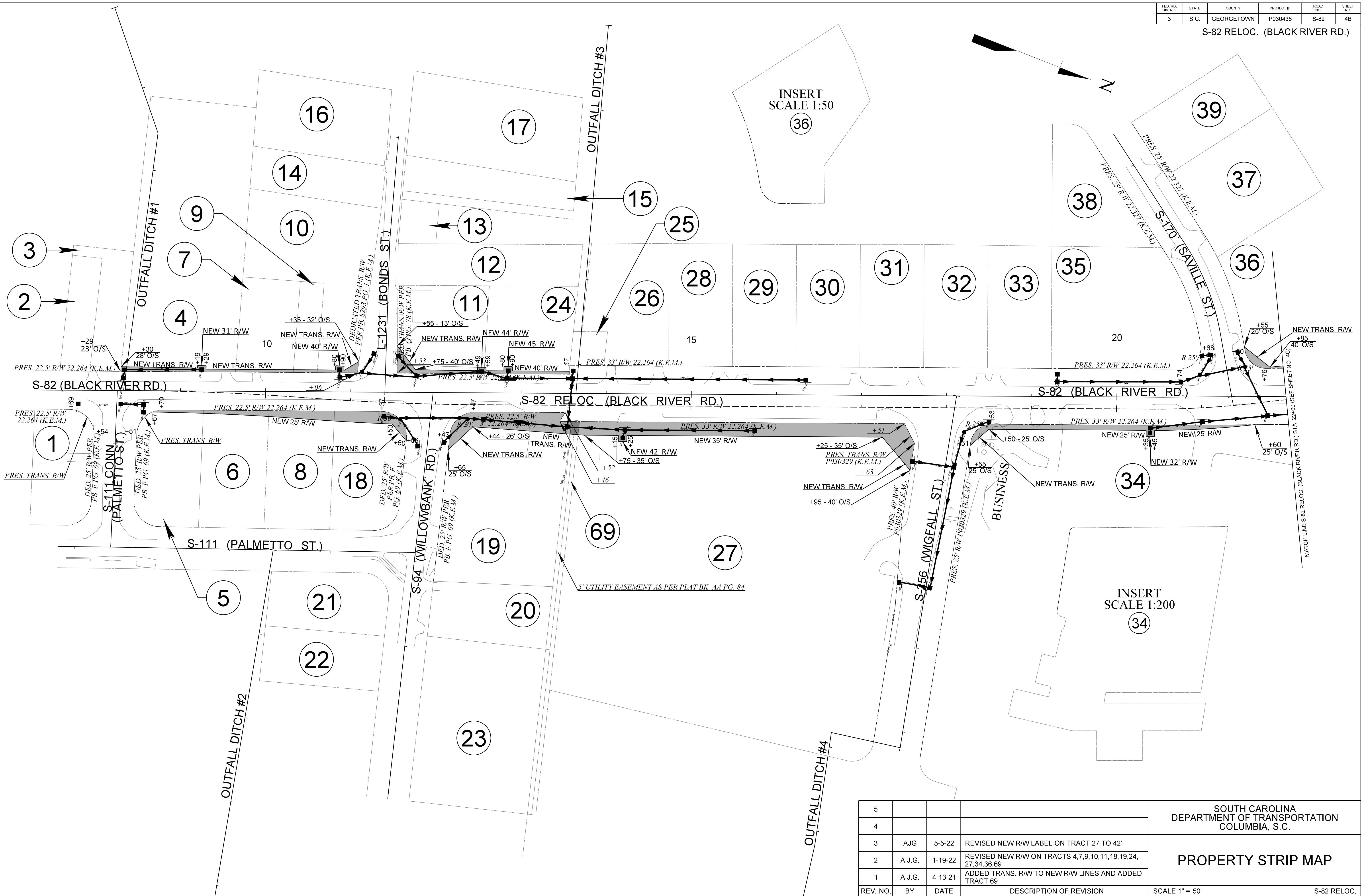
ROAD NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
S-82	URBAN MINOR ARTERIAL	40	7+83.59	33+37.32

PAVEMENT DESIGN	

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.
<b>TYPICAL SECTION</b>
SCALE 1"V = NTS    SCALE 1"H = NTS
S-82





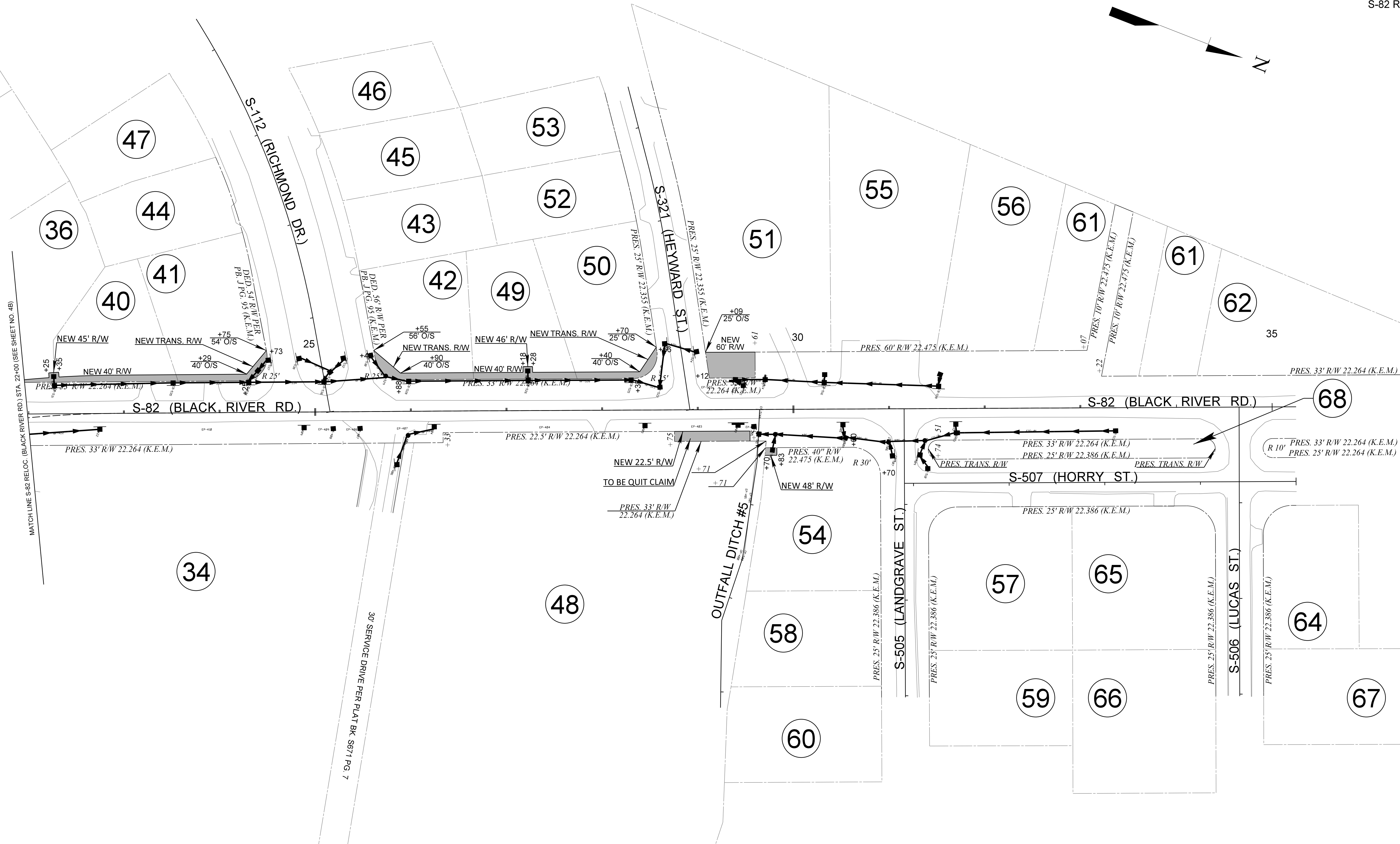
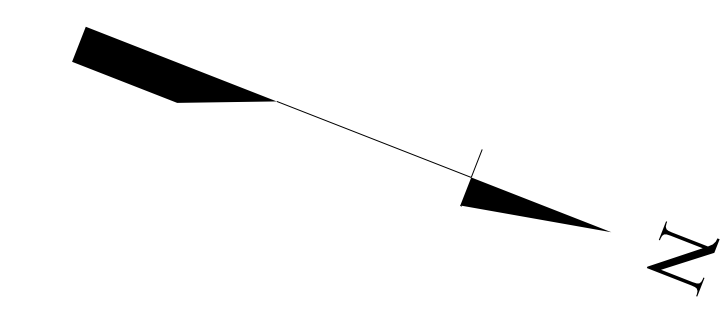


REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3	A.J.G.	5-5-22	REVISED NEW R/W LABEL ON TRACT 27 TO 42'
2	A.J.G.	1-19-22	REVISED NEW R/W ON TRACTS 4,7,9,10,11,18,19,24, 27,34,36,69
1	A.J.G.	4-13-21	ADDED TRANS. R/W TO NEW R/W LINES AND ADDED TRACT 69

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.

**PROPERTY STRIP MAP**

SCALE 1" = 50' S-82 RELOC.



REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE 1" = 50'	S-82 RELOC.
5				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.	PROPERTY STRIP MAP
4					
3	A.J.G.	7-5-22	ADDED NEW R/W ON TRACT 48 TO BE QUIT CLAIM		
2	A.J.G.	1-19-22	REVISED NEW R/W ON TRACTS 36,40,41,42,49,54		
1	A.J.G.	4-13-21	ADDED TRANS. R/W TO NEW R/W LINES		

### PROPERTY MONUMENTS FOUND

ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
BLACK RIVER RD.S-82	13+86.23	-426.96	565872.79	2523218.04	IP 5/8" REBAR
BLACK RIVER RD.S-82	07+28.92	19.41	565418.94	2523870.21	IP 2" PIPE
BLACK RIVER RD.S-82	07+89.27	20.53	565475.69	2523849.64	IP 1" PIPE
BLACK RIVER RD.S-82	07+98.01	38.13	565490.15	2523862.94	IP 2" PIPE
BLACK RIVER RD.S-82	09+27.01	21.06	565604.48	2523800.80	IP 1" REBAR
BLACK RIVER RD.S-82	08+30.31	-32.01	565495.19	2523785.89	IP 3/4" REBAR
BLACK RIVER RD.S-82	09+64.95	-30.68	565621.38	2523738.91	IP 1" REBAR
BLACK RIVER RD.S-82	10+67.85	-127.58	565682.75	2523611.59	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	10+39.91	-129.57	565655.94	2523619.73	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	12+15.35	61.76	565888.28	2523735.54	IP 1" PIPE
BLACK RIVER RD.S-82	10+32.77	-30.67	565684.70	2523714.63	IP 1" PIPE
BLACK RIVER RD.S-82	12+48.42	33.05	565908.87	2523696.89	IP 1" PIPE
BLACK RIVER RD.S-82	12+56.90	-33.00	565893.13	2523632.18	IP 1" PIPE
BLACK RIVER RD.S-82	13+57.00	-33.00	565986.59	2523596.33	IP 5/8" REBAR
BLACK RIVER RD.S-82	13+63.49	37.70	566017.97	2523660.02	IP 3/4" PIPE
BLACK RIVER RD.S-82	13+69.93	35.50	566023.20	2523655.66	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	13+68.97	32.32	566021.16	2523653.04	IP 1/2" REBAR
BLACK RIVER RD.S-82	13+97.07	-32.97	566024.01	2523582.01	IP 1" PIPE
BLACK RIVER RD.S-82	14+73.32	-33.10	566095.16	2523554.58	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	16+22.80	-33.24	566234.67	2523500.92	IP 1/2" PIPE
BLACK RIVER RD.S-82	17+72.76	-34.09	566374.38	2523446.42	IP 5/8" REBAR
BLACK RIVER RD.S-82	19+22.69	-33.00	566514.75	2523393.74	IP 5/8" REBAR
BLACK RIVER RD.S-82	21+76.36	-33.00	566750.59	2523301.51	IP 3/4" PIPE
BLACK RIVER RD.S-82	21+50.94	-54.16	566719.13	2523291.28	IP 3/4" PIPE
BLACK RIVER RD.S-82	22+26.33	-33.11	566796.95	2523282.89	IP 3" PIPE
BLACK RIVER RD.S-82	23+56.33	-33.14	566917.68	2523234.67	IP 3/4" PIPE
BLACK RIVER RD.S-82	25+87.34	-33.21	567132.21	2523148.97	IP 1/2 PIPE
BLACK RIVER RD.S-82	25+62.85	-53.92	567101.78	2523138.82	IP 1/2" PIPE
BLACK RIVER RD.S-82	26+59.03	-33.00	567198.87	2523122.59	IP 1" PIPE
BLACK RIVER RD.S-82	29+14.15	-37.62	567434.37	2523024.20	IP 1/2" REBAR
BLACK RIVER RD.S-82	09+21.97	161.42	565650.04	2523933.66	IP 1/2" PIPE
BLACK RIVER RD.S-82	24+24.30	-32.81	566980.93	2523209.78	IP 1" PIPE
BLACK RIVER RD.S-82	29+09.84	-61.84	567421.44	2523003.28	IP 3/4" PIPE
BLACK RIVER RD.S-82	30+39.02	-37.37	567550.53	2522978.40	IP 3/4" PIPE
BLACK RIVER RD.S-82	31+43.93	-35.45	567648.76	2522941.49	IP 1" PIPE
BLACK RIVER RD.S-82	35+19.74	103.00	568049.14	2522931.61	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	34+90.10	133.03	568032.66	2522970.46	IP X CONCRETE DRIVE
BLACK RIVER RD.S-82	34+39.91	133.05	567986.01	2522988.98	IP 1 1/4" PIPE
BLACK RIVER RD.S-82	31+70.27	102.94	567724.27	2523060.41	IP 1 1/4" PIPE
BLACK RIVER RD.S-82	30+90.19	70.00	567637.69	2523059.33	IP 2" PIPE
BLACK RIVER RD.S-82	30+90.15	189.86	567681.85	2523170.76	IP 2" PIPE
BLACK RIVER RD.S-82	31+40.17	252.79	567751.55	2523210.81	IP 2" PIPE
BLACK RIVER RD.S-82	31+39.92	352.64	567788.13	2523303.71	IP 1" PIPE
BLACK RIVER RD.S-82	08+60.28	209.08	565609.51	2524000.25	IP 1" PIPE
BLACK RIVER RD.S-82	11+65.26	151.89	565873.79	2523837.63	IP 1" PIPE
BLACK RIVER RD.S-82	11+98.51	221.71	565929.83	2523890.91	IP 1/2" PIPE
BLACK RIVER RD.S-82	34+89.79	252.95	568076.59	2523082.04	IP 5/8" REBAR
BLACK RIVER RD.S-82	11+86.93	285.48	565941.86	2523954.60	IP 3/4" REBAR
BLACK RIVER RD.S-82	11+54.53	-125.77	565764.33	2523582.23	IP 3/4" PIPE
BLACK RIVER RD.S-82	11+54.64	-174.74	565746.89	2523536.47	IP 3" AXEL
BLACK RIVER RD.S-82	11+59.51	-236.88	565729.19	2523476.71	IP 1" PIPE
BLACK RIVER RD.S-82	11+72.06	-377.65	565690.48	2523340.79	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	21+46.61	-79.15	566705.85	2523269.68	IP 1" PIPE
BLACK RIVER RD.S-82	21+33.25	-129.95	566674.61	2523227.45	IP 1" PIPE
BLACK RIVER RD.S-82	21+18.86	-163.99	566648.63	2523201.17	IP 1 3/4" PIPE
BLACK RIVER RD.S-82	20+14.92	-322.68	566497.13	2523090.25	IP 1/2" PIPE
BLACK RIVER RD.S-82	24+49.17	-62.87	566992.89	2523172.64	IP 3/4" PIPE
BLACK RIVER RD.S-82	24+36.83	-129.47	566956.74	2523115.36	IP 1" PIPE
BLACK RIVER RD.S-82	24+25.62	-188.44	566924.47	2523064.75	IP 1" PIPE
BLACK RIVER RD.S-82	23+90.51	-281.86	566857.23	2522991.00	IP 2" PIPE
BLACK RIVER RD.S-82	24+73.98	-359.33	566906.04	2522888.11	IP 1/2" PIPE
BLACK RIVER RD.S-82	28+36.27	-197.74	567302.94	2522904.08	IP 1/2" PIPE
BLACK RIVER RD.S-82	25+29.78	-220.62	567009.27	2522996.25	IP 1/2" REBAR
BLACK RIVER RD.S-82	11+37.49	-356.82	565665.67	2523372.61	IP 1 1/4" PIPE
BLACK RIVER RD.S-82	08+62.80	-345.94	565413.09	2523481.14	IP 5/8" REBAR
BLACK RIVER RD.S-82	07+97.73	50.64	565494.38	2523874.73	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	07+70.31	158.77	565507.50	2523985.50	IP 1/2" PIPE
BLACK RIVER RD.S-82	07+57.09	158.67	565495.12	2523990.14	IP 1/2" PIPE
BLACK RIVER RD.S-82	07+97.24	142.21	565526.71	2523960.40	IP 1/2" PIPE
BLACK RIVER RD.S-82	07+96.35	152.11	565529.42	2523969.96	IP 1 1/2" PIPE
BLACK RIVER RD.S-82	10+76.13	163.80	565794.83	2523880.67	IP 1/2" PIPE
BLACK RIVER RD.S-82	10+08.36	210.80	565748.39	2523948.82	IP 1/2" PIPE

### SURVEY CONTROL POINTS

POINT ID	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
78	RD.S-82	75.7800	2.30	564661.4890	2524142.4260		CP 1 PSC
79	RD.S-82	08+54.64	18.17	565535.8734	2523824.0240	13.10	CP 2 PSC
80	RD.S-82	17+32.08	20.59	566355.9837	2523512.0360	15.14	CP 3 MSC
81	RD.S-82	27+62.45	20.18	567314.6758	2523133.8600	11.49	CP 4 MSC
82	RD.S-82	34+97.64	19.83	567997.9287	2522862.4470	14.99	CP 5 PSC
83	RD.S-82	45+05.46	45.64	568944.2481	2522514.8270		CP 6 PSC

### PROJECT BENCHMARKS

POINT ID	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
84	BLACK RIVER RD.S-82	08+02.45	24.22	565489.3225	2523848.3640	16.26	X ON FLANGE BOLT .F.H
85	BLACK RIVER RD.S-82	17+15.25	48.58	566350.2951	2523544.1990	18.31	NAIL IN BASE OF 24" PINE
86	BLACK RIVER RD.S-82	26+24.45	-33.42	567166.6010	2523135.0240	15.72	NAIL IN BASE OF 20" OAK
87	BLACK RIVER RD.S-82	34+21.50	49.52	567938.1035	2522918.1230	16.82	NAIL IN BASE OF 18" OAK

### NOTES:

- The alignment Station and Offset are referenced to the existing Survey Centerline.
- Survey completed on March 3, 2017



### SURVEY CONTROL DATA

#### PROJECT DESCRIPTION

Black River Road (S-22-82) Widening

#### DATUM DESCRIPTION

This GRID Coordinate System developed for this project is based on NAD83(2011) South Carolina State Plane Coordinate System. A Combined Scale Factor (CSF) for each Survey Control Point must be computed and applied to horizontal ground distances. Elevations for this project are based on NAVD88 for DD0296 with an Elevation of 16.68



## SURVEYDATA / DTUM

VERTICAL DATUM: NAVD88  
 BENCHMARK REFERENCE: DDO296  
 ELEVATION: 16.68'  
 HORIZONTAL DATUM: NAD83(2011)

### S-82 (BLACK RIVER ROAD)

Beginning chain S82 description

Point 1 N 565,411.9346 E 2,523,852.1064 Sta 7+28.86

Course from 1 to 9 N 20° 59' 09.20" W Dist 1,324.8130

Point 9 N 566,648.8710 E 2,523,377.6405 Sta 20+53.67

Course from 9 to 12 N 21° 45' 29.15" W Dist 605.3576

Point 12 N 567,211.1012 E 2,523,153.2413 Sta 26+59.03

Course from 12 to 17 N 21° 38' 15.18" W Dist 866.0185

Point 17 N 568,016.0957 E 2,522,833.9110 Sta 35+25.05

Ending chain S82 description

### S-82 RELOC. (BLACK RIVER ROAD)

Beginning chain S82R description

Point 300 N 565,411.9346 E 2,523,852.1064 Sta 7+28.86

Course from 300 to PC S82R-1 N 20° 59' 09.20" W Dist 115.2877

Curve Data  
\*-----\*

Curve S82R-1  
 P.I. Station 9+45.01 N 565,613.7441 E 2,523,774.6960  
 Delta = 3° 58' 36.92" (RT)  
 Degree = 1° 58' 20.34"  
 Tangent = 100.8591  
 Length = 201.6372  
 Radius = 2,905.0000  
 External = 1.7503  
 Long Chord = 201.5968  
 Mid. Ord. = 1.7493  
 P.C. Station 8+44.15 N 565,519.5751 E 2,523,810.8175  
 P.T. Station 10+45.78 N 565,710.1916 E 2,523,745.1926  
 C.C. N 566,559.9661 E 2,526,523.1249  
 Back = N 20° 59' 09.20" W  
 Ahead = N 17° 00' 32.27" W  
 Chord Bear = N 18° 59' 50.74" W

### S-82 RELOC. (CONT.)

Curve Data  
\*-----\*

Curve S82R-2  
 P.I. Station 11+46.51 N 565,806.5143 E 2,523,715.7273  
 Delta = 3° 58' 18.48" (LT)  
 Degree = 1° 58' 20.37"  
 Tangent = 100.7287  
 Length = 201.3767  
 Radius = 2,904.9883  
 External = 1.7458  
 Long Chord = 201.3364  
 Mid. Ord. = 1.7448  
 P.C. Station 10+45.78 N 565,710.1916 E 2,523,745.1926  
 P.T. Station 12+47.16 N 565,900.5647 E 2,523,679.6609  
 C.C. N 564,860.4205 E 2,520,967.2714  
 Back = N 17° 00' 32.27" W  
 Ahead = N 20° 58' 50.76" W  
 Chord Bear = N 18° 59' 41.52" W

Course from PT S82R-2 to PC S82R-3 N 20° 58' 50.76" W Dist 802.3444

Curve Data  
\*-----\*

Curve S82R-3  
 P.I. Station 21+09.94 N 566,705.8429 E 2,523,369.9756  
 Delta = 6° 39' 05.08" (LT)  
 Degree = 5° 30' 33.15"  
 Tangent = 60.4342  
 Length = 120.7326  
 Radius = 1,040.0000  
 External = 1.7544  
 Long Chord = 120.6648  
 Mid. Ord. = 1.7515  
 P.C. Station 20+49.51 N 566,649.7143 E 2,523,392.3778  
 P.T. Station 21+70.24 N 566,758.9990 E 2,523,341.2228  
 C.C. N 566,264.1980 E 2,522,426.4704  
 Back = N 21° 45' 29.15" W  
 Ahead = N 28° 24' 34.23" W  
 Chord Bear = N 25° 05' 01.69" W

Curve Data  
\*-----\*

Curve S82R-4  
 P.I. Station 22+30.67 N 566,812.1551 E 2,523,312.4700  
 Delta = 6° 39' 05.08" (RT)  
 Degree = 5° 30' 33.15"  
 Tangent = 60.4342  
 Length = 120.7326  
 Radius = 1,040.0000  
 External = 1.7544  
 Long Chord = 120.6648  
 Mid. Ord. = 1.7515  
 P.C. Station 21+70.24 N 566,758.9990 E 2,523,341.2228  
 P.T. Station 22+90.97 N 566,868.2838 E 2,523,290.0677  
 C.C. N 567,253.8000 E 2,524,255.9752  
 Back = N 28° 24' 34.23" W  
 Ahead = N 21° 45' 29.15" W  
 Chord Bear = N 25° 05' 01.69" W

Course from PT S82R-4 to 301 N 21° 45' 29.15" W Dist 369.1141

Point 301 N 567,211.1012 E 2,523,153.2413 Sta 26+60.09

Course from 301 to 302 N 21° 38' 15.18" W Dist 866.0185

Point 302 N 568,016.0957 E 2,522,833.9110 Sta 35+26.10

Ending chain S82R description

### S-111 CONN (PALMETTO STREET)

Beginning chain S111CONN description

Point 18 N 565,502.3479 E 2,523,817.4256 Sta 10+00.00

Course from 18 to 19 N 71° 04' 13.99" E Dist 184.2402

Point 19 N 565,562.1161 E 2,523,991.7019 Sta 11+84.24

Ending chain S111CONN description

### S-111 (PALMETTO STREET)

Beginning chain S111 description

Point 54 N 565,897.6450 E 2,523,867.3210 Sta 10+00.00

Course from 54 to 56 S 20° 19' 19.36" E Dist 332.2775

Point 56 N 565,586.0500 E 2,523,982.7198 Sta 13+32.28

Course from 56 to 58 S 20° 34' 13.82" E Dist 87.7377

Point 58 N 565,503.9064 E 2,524,013.5473 Sta 14+20.02

Ending chain S111 description

### L-1231 RELOC. (BONDS STREET)

Beginning chain BONDSR description

Point 10008 N 565,799.8160 E 2,523,716.1790 Sta 9+87.99

Course from 10008 to 10009 S 70° 28' 35.60" W Dist 12.0078

Point 10009 N 565,795.8031 E 2,523,704.8616 Sta 10+00.00

Ending chain BONDSR description

### L-1231 (BONDS STREET)

Beginning chain BONDS description

Point 20 N 565,795.8031 E 2,523,704.8616 Sta 10+00.00

Course from 20 to 21 S 70° 28' 35.60" W Dist 176.2095

Point 21 N 565,736.9152 E 2,523,538.7833 Sta 11+76.21

Course from 21 to 22 S 73° 22' 54.26" W Dist 124.8807

Point 22 N 565,701.2001 E 2,523,419.1187 Sta 13+01.09

Ending chain BONDS description

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.

REFERENCE DATA



## S-94 (WILLOWBANK ROAD)

Beginning chain S94 description

Point 23 N 565,848.7585 E 2,523,684.5489 Sta 10+00.00

Course from 23 to 25 N 75° 01' 31.72" E Dist 480.2997

Point 25 N 565,972.8629 E 2,524,148.5380 Sta 14+80.30

Ending chain S94 description

## S-256 (WIGFALL STREET)

Beginning chain S256 description

Point 26 N 566,422.9198 E 2,523,464.3112 Sta 10+00.00

Course from 26 to 27 N 77° 45' 15.43" E Dist 418.7317

Point 27 N 566,511.7347 E 2,523,873.5155 Sta 14+18.73

Ending chain S256 description

## S-170 RELOC. (SAVILLE STREET)

Beginning chain S170R description

Point 10010 N 566,729.8360 E 2,523,356.4065 Sta 9+89.56

Course from 10010 to 10011 S 58° 24' 36.56" W Dist 10.4450

Point 10011 N 566,724.3646 E 2,523,347.5093 Sta 10+00.00

Ending chain S170R description

## S-170 (SAVILLE STREET)

Beginning chain S170 description

Point 28 N 566,724.3646 E 2,523,347.5093 Sta 10+00.00

Course from 28 to PC S170A S 58° 24' 36.56" W Dist 76.9434

Curve Data  
\*-----\*

Curve S170A  
P.I. Station 11+33.68 N 566,654.3406 E 2,523,233.6417  
Delta = 22° 47' 21.93" (LT)  
Degree = 20° 21' 14.82"  
Tangent = 56.7323  
Length = 111.9647  
Radius = 281.4948  
External = 5.6600  
Long Chord = 111.2281  
Mid. Ord. = 5.5484  
P.C. Station 10+76.94 N 566,684.0589 E 2,523,281.9674  
P.T. Station 11+88.91 N 566,608.2235 E 2,523,200.5999  
C.C. N 566,444.2761 E 2,523,429.4242  
Back = S 58° 24' 36.56" W  
Ahead = S 35° 37' 14.62" W  
Chord Bear = S 47° 00' 55.59" W

Course from PT S170A to 33 S 35° 37' 14.62" W Dist 154.3393

Point 33 N 566,482.7626 E 2,523,110.7100 Sta 13+43.25

Ending chain S170 description

## S-112 (RICHMOND DRIVE)

Beginning chain S112 description

Point 34 N 567,077.3713 E 2,523,206.6160 Sta 10+00.00

Course from 34 to PC S112A S 58° 18' 31.67" W Dist 97.5926

Curve Data  
\*-----\*

Curve S112A  
P.I. Station 12+69.54 N 566,935.7684 E 2,522,977.2626  
Delta = 21° 52' 39.69" (LT)  
Degree = 6° 26' 24.00"  
Tangent = 171.9521  
Length = 339.7157  
Radius = 889.6859  
External = 16.4645  
Long Chord = 337.6556  
Mid. Ord. = 16.1653  
P.C. Station 10+97.59 N 567,026.1019 E 2,523,123.5753  
P.T. Station 14+37.31 N 566,797.4206 E 2,522,875.1478  
C.C. N 566,269.0755 E 2,523,590.9637  
Back = S 58° 18' 31.67" W  
Ahead = S 36° 25' 51.98" W  
Chord Bear = S 47° 22' 11.83" W

Ending chain S112 description

## S-321 (HEYWARD STREET)

Beginning chain S321 description

Point 39 N 567,426.9973 E 2,523,067.5983 Sta 10+00.00

Course from 39 to PC S321A S 60° 03' 02.12" W Dist 165.3018

Curve Data  
\*-----\*

Curve S321A  
P.I. Station 12+11.89 N 567,321.2135 E 2,522,884.0012  
Delta = 5° 54' 06.10" (LT)  
Degree = 6° 20' 21.36"  
Tangent = 46.5899  
Length = 93.0974  
Radius = 903.8233  
External = 1.2000  
Long Chord = 93.0563  
Mid. Ord. = 1.1984  
P.C. Station 11+65.30 N 567,344.4728 E 2,522,924.3698  
P.T. Station 12+58.40 N 567,293.9267 E 2,522,846.2381  
C.C. N 566,561.3402 E 2,523,375.5902  
Back = S 60° 03' 02.12" W  
Ahead = S 54° 08' 56.02" W  
Chord Bear = S 57° 05' 59.07" W

Course from PT S321A to 44 S 54° 08' 56.02" W Dist 85.8271

Point 44 N 567,243.6594 E 2,522,776.6717 Sta 13+44.23

Ending chain S321 description

## S-505 (LANDGRAVE STREET)

Beginning chain S505 description

Point 45 N 567,635.1378 E 2,522,985.0318 Sta 10+00.00

Course from 45 to 47 N 68° 22' 50.48" E Dist 301.6088

Point 47 N 567,746.2619 E 2,523,265.4231 Sta 13+01.61

Ending chain S505 description

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.

REFERENCE DATA





# STATION OFFSETS

FED. RD. ORV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	5F

S82R RIGHT Station-Offset	Description	S82R RIGHT Station-Offset	Description	S256 LEFT Station-Offset	Description
27+63-69.5	GRAVE	29+22-28.7	WALL	11+11-16.6	18 LIVE OAK TREE
27+66-67.5	12 CEDAR TREE	29+22-69.5	GRAVE	11+32-14.9	LIGHT POLE
27+82-35.1	GRAVE	29+23-59.5	GRAVE	11+42-55.0	BUILDING
27+82-44.7	GRAVE	29+23-26.4	4 CEDAR TREE	11+47-16.8	WATER METER
27+83-70.9	GRAVE	29+25-70.9	GRAVE	11+60-15.7	18 LIVE OAK TREE
27+87-35.1	GRAVE	29+26-38.2	GRAVE	12+11-9.3	LIGHT POLE
27+88-48.8	GRANITE 12 WALL	29+26-71.0	GRAVE	12+38-26.7	SHRUB
27+88-48.8	WALL	29+27-30.4	GRAVE	12+63-16.0	28 LIVE OAK TREE
27+88-23.0	FENCE	29+28-26.2	4 CEDAR TREE	12+93-7.2	LIGHT POLE
27+88-68.0	WALL	29+30-71.1	GRAVE		
27+89-22.4	18X18X72 BR COLUMN	29+30-30.5	GRAVE		
28+05-22.2	18X18X72 BR COLUMN	29+30-38.6	GRAVE		
28+07-23.4	C 48 FENCE	29+31-30.6	GRAVE		
28+07-34.2	SIGN	29+31-71.1	GRAVE		
28+07-42.4	SIGN	29+33-30.7	GRAVE		
28+12-24.6	ELEC PEDESTAL	29+33-38.5	GRAVE		
28+15-68.2	GRAVE	29+34-30.7	GRAVE		
28+15-22.2	P.POLE	29+35-71.0	GRAVE		
28+18-26.5	GRAVE	29+35-25.9	4 CEDAR TREE		
28+19-34.9	GRAVE	29+36-30.9	GRAVE		
28+21-26.5	GRAVE	29+37-71.1	GRAVE		
28+23-38.6	GRAVE	29+37-48.0	GRAVE		
28+23-45.6	GRAVE	29+37-41.3	GRAVE		
28+23-36.4	GRANITE.6 FLUSH /W GROUND WALL	29+38-38.8	GRAVE		
28+23-36.4	WALL	29+38-32.2	GRAVE		
28+24-26.3	WALL	29+39-41.4	GRAVE		
28+25-35.0	GRAVE	29+40-26.8	4 CEDAR TREE		
28+25-28.8	GRAVE	29+40-32.4	GRAVE		
28+26-69.6	GRAVE	29+42-57.3	WALL		
28+27-29.0	GRAVE	29+42-29.6	WALL		
28+31-38.6	GRAVE	29+50-24.4	FENCE		
28+35-39.0	GRAVE	29+51-22.7	FOC WITNESS MARKER		
28+35-46.7	GRAVE	29+56-23.4	TELEPHONE UTILTY MH		
28+39-39.1	GRAVE	29+70-55.7	18 PINE TREE		
28+40-36.0	WALL	30+14-58.5	30 PINE TREE		
28+40-25.9	WALL	30+16-49.3	15 PINE TREE		
28+55-34.6	GRAVE	30+36-70.8	FLOWER BED		
28+55-28.0	GRAVE	30+37-73.8	FLOWER BED		
28+57-28.2	GRAVE	30+37-47.1	FLOWER BED		
28+59-34.4	GRAVE	30+37-41.0	FLOWER BED		
28+59-28.0	GRAVE	30+37-41.0	SHRUB ROW		
28+61-28.0	GRAVE	30+41-59.6	FLOWER BED		
28+69-74.7	GRAVE	30+41-54.3	SHRUB ROW		
28+72-74.9	GRAVE	30+41-41.4	20 PINE TREE		
28+81-25.7	WALL	30+50-69.1	10 TRIPLE DOG WOOD TREE		
28+81-37.9	WALL	30+51-68.9	10 TRIPLE DOG WOOD TREE		
28+83-34.2	GRAVE	30+63-46.7	15 PINE TREE		
28+83-27.7	GRAVE	30+64-64.3	15 PINE TREE		
28+85-27.8	GRAVE	30+64-73.2	SPRINKLER		
28+86-34.5	GRAVE	30+71-44.4	30 PINE TREE		
28+86-28.0	GRAVE	30+73-65.1	10 DOG WOOD TREE		
28+88-28.1	GRAVE	30+74-56.2	SHRUB ROW		
28+90-34.8	GRAVE	30+86-68.0	SHRUB ROW		
28+90-28.3	GRAVE	30+89-48.2	24 PINE TREE		
28+92-28.5	GRAVE	30+91-70.0	2" PIPE PROPERTY CORNER FOUND		
28+93-35.0	GRAVE	30+95-70.8	SHRUB ROW		
28+93-27.8	GRAVE	30+95-48.1	18 PINE TREE		
28+95-28.1	GRAVE	30+98-71.5	FLOWER BED		
29+00-26.2	GRANITE.6 FLUSH /W GROUND WALL	30+98-40.3	SHRUB ROW		
29+00-26.2	WALL	31+00-68.8	FLOWER BED		
29+00-38.4	WALL	31+01-67.0	GAS VALVE		
29+01-73.6	GRAVE	31+05-60.4	SHRUB ROW		
29+02-67.1	GRAVE	31+05-49.9	SHRUB ROW		
29+03-28.9	GRAVE	31+26-14.3	WATER VALVE		
29+03-35.5	GRAVE	31+30-36.6	WATER VALVE		
29+04-67.4	GRAVE	32+04-49.4	36 PINE TREE		
29+06-74.1	GRAVE	32+13-50.2	30 PINE TREE		
29+07-67.7	GRAVE	32+42-49.8	24 LIVE OAK TREE		
29+08-29.1	GRAVE	32+67-50.2	24 PINE TREE		
29+09-68.0	GRAVE	32+76-50.6	20 PINE TREE		
29+11-53.2	GRAVE	32+86-50.3	24 PINE TREE		
29+12-47.3	GRAVE	33+00-49.4	12 LIVE OAK TREE		
29+13-37.4	GRAVE	33+12-50.3	24 PINE TREE		
29+13-30.5	GRAVE	33+21-51.2	18 PINE TREE		
29+14-47.3	GRAVE	33+31-50.9	18 PINE TREE		
29+16-30.5	GRAVE	33+49-51.0	20 PINE TREE		
29+16-37.5	GRAVE	33+63-50.9	20 LIVE OAK TREE		
29+16-31.5	GRAVE	33+94-51.8	30 PINE TREE		
29+18-31.6	GRAVE	34+03-52.1	30 PINE TREE		
29+19-21.3	GUY POLE	34+20-19.4	WATER VALVE		
29+20-28.7	GUY WIRE	34+23-52.0	18 LIVE OAK TREE		
29+20-69.1	GRAVE	34+79-26.7	WATER VALVE		
29+20-65.9	GRAVE	34+81-63.3	GAS VALVE		
29+21-59.2	GRAVE	34+84-46.0	FIRE HYDRANT		
29+22-56.4	WALL	35+06-47.4	4 CEDAR TREE		
29+22-28.7	CONC.BLOCK 12 WALL	35+25-47.2	30 PINE TREE		

S256 RIGHT Station-Offset	Description
11+10-72.4	SHRUB
11+13-47.4	SHRUB ROW
11+22-66.2	SHRUB ROW
11+27-51.2	24 PINE TREE
11+32-48.8	SHRUB ROW
11+36-64.8	SHRUB ROW
12+14-50.1	LIGHT POLE

S112 LEFT Station-Offset	Description
11+28-53.4	30 LIVE OAK TREE
11+33-0.1	24 LIVE OAK TREE
11+36-58.3	FLOWER BED
11+41-62.9	FLOOD/GROUND LIGHT
11+44-53.6	1" PIPE PROPERTY CORNER FOUND
11+53-56.3	WATER METER
11+53-57.6	FLOWER BED
11+70-53.7	FLOWER BED
11+73-53.1	24 LIVE OAK TREE
11+81-65.1	30 LIVE OAK TREE
12+07-49.2	1" PIPE PROPERTY CORNER FOUND
12+10-54.8	SHRUB ROW
12+21-0.9	36 LIVE OAK TREE
12+43-50.0	20 LIVE OAK TREE
12+89-48.2	30 LIVE OAK TREE
13+08-65.4	15 LIVE OAK TREE
13+11-51.7	4 DOG WOOD TREE
13+13-49.5	2" PIPE PROPERTY CORNER FOUND

S112 RIGHT Station-Offset	Description
10+76-0.6	SHRUB
10+94-1.9	18 LIVE OAK TREE
11+10-53.6	30 LIVE OAK TREE
11+17-0.4	12 DOG WOOD TREE
11+37-56.5	WATER METER
11+38-58.0	SHRUB
11+39-56.6	WATER METER
11+43-0.6	LIGHT POLE
11+47-0.7	SHRUB ROW
11+56-51.9	42 LIVE OAK TREE
11+61-2.1	SHRUB ROW
12+00-55.1	30 LIVE OAK TREE
12+00-52.0	SHRUB
12+02-1.1	SHRUB ROW
12+08-59.8	1/2" REBAR PROPERTY CORNER FOUND
12+28-3.7	SHRUB ROW
12+59-56.9	36 LIVE OAK TREE
12+65-4.8	SHRUB ROW
12+68-4.0	LIGHT POLE
12+73-4.3	SHRUB ROW
12+77-58.8	WATER METER
12+79-58.9	WATER METER
12+96-4.8	SHRUB ROW
13+05-2.5	20 LIVE OAK TREE
13+48-58.9	1/2" PIPE PROPERTY CORNER FOUND

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.

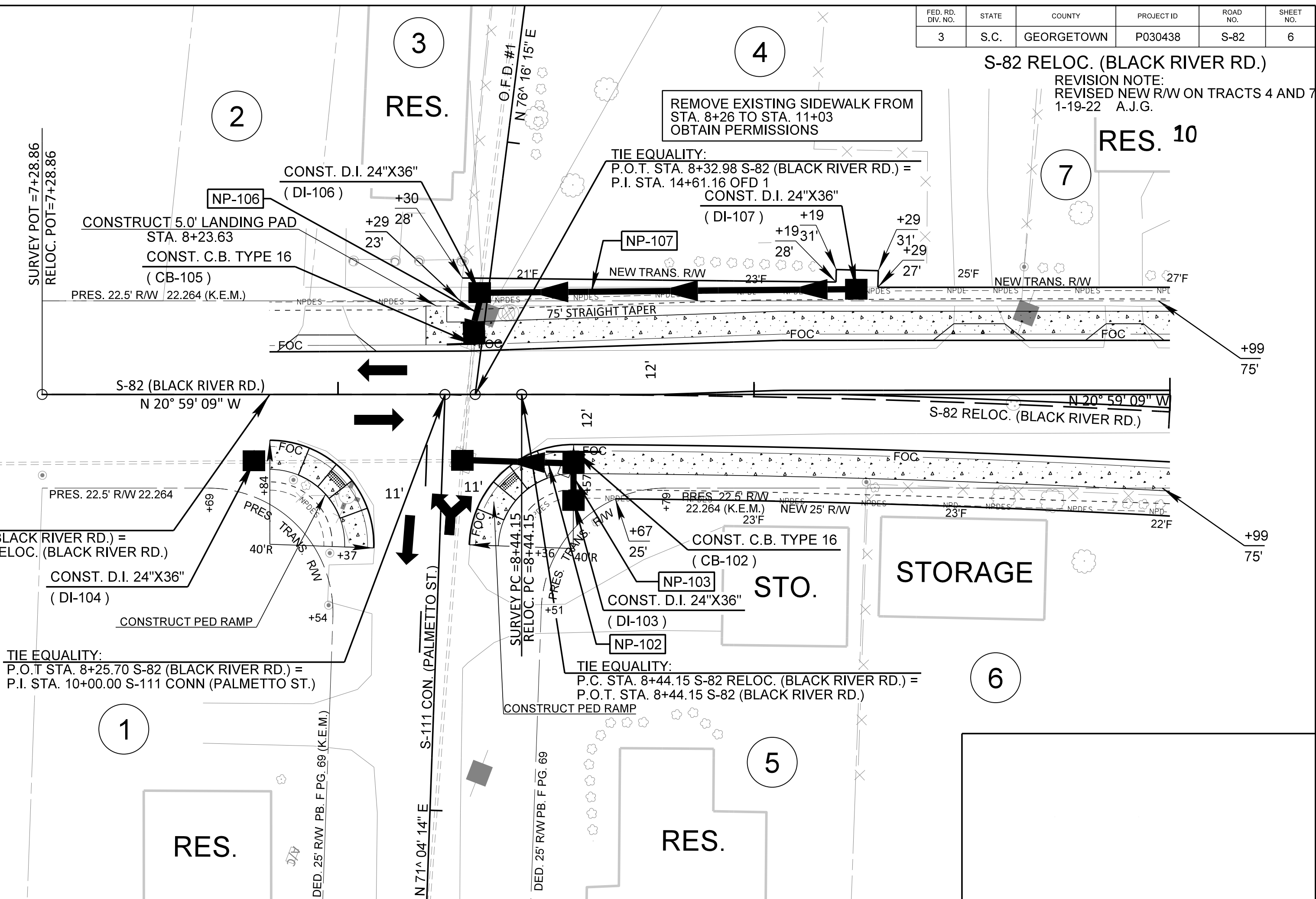
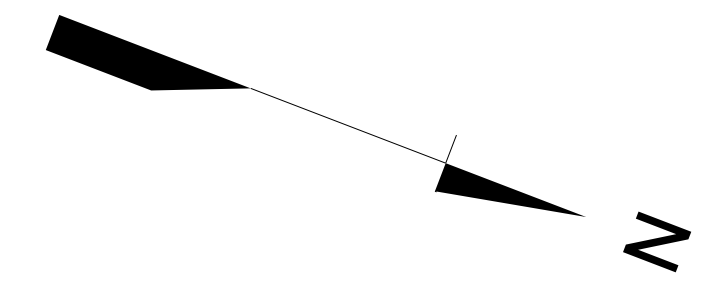
REFERENCE DATA

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	6

S-82 RELOC. (BLACK RIVER RD.)  
 REVISION NOTE:  
 REVISED NEW R/W ON TRACTS 4 AND 7  
 1-19-22 A.J.G.

**UTILITY NOTE**

POWER	CITY OF GEORGETOWN ELECTRIC CO.
TELECOM	FRONTIER COMMUNICATIONS
CABLE	TIME WARNER
GAS	SCE&G
SEWER	GEORGETOWN CO. WATER & SEWER
WATER	GEORGETOWN CO. WATER & SEWER



NOTE: RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED

CONST. CROSSWALK PAINT PER SCDOT STANDARDS AS DIRECTED BY ENGINEER

SURVEY TICK MARKS NOT SHOWN WHERE SURVEY C/L COINCIDES WITH RELOC. C/L

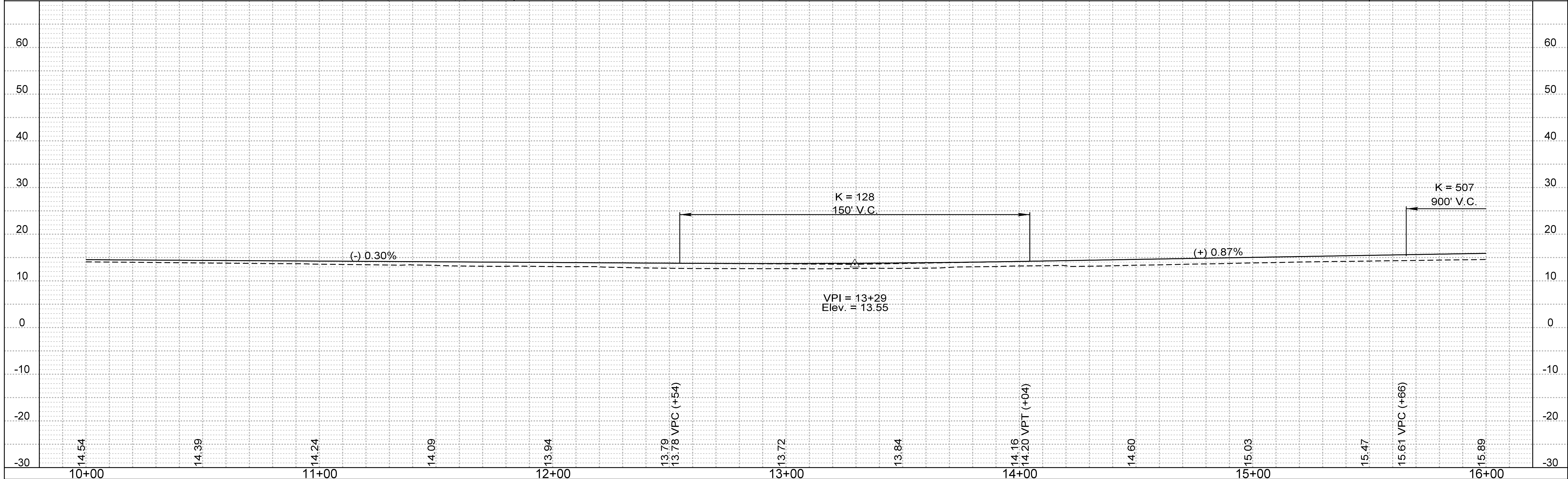
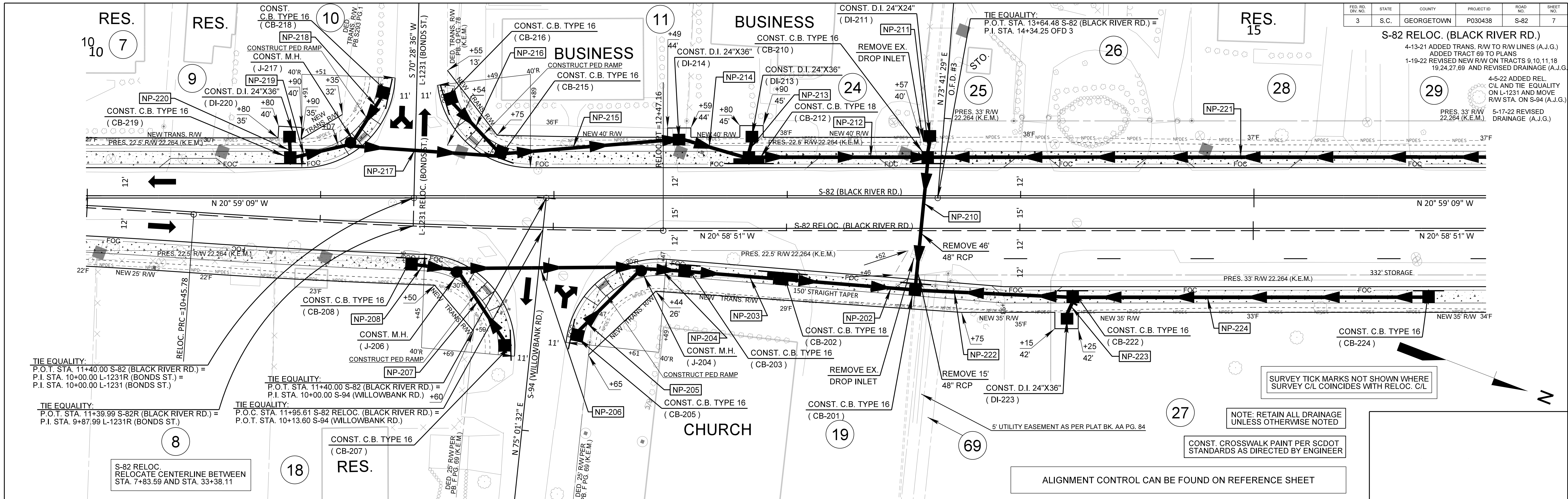
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

S-82 RELOC. RELOCATE CENTERLINE BETWEEN STA. 7+83.59 AND STA. 33+38.11

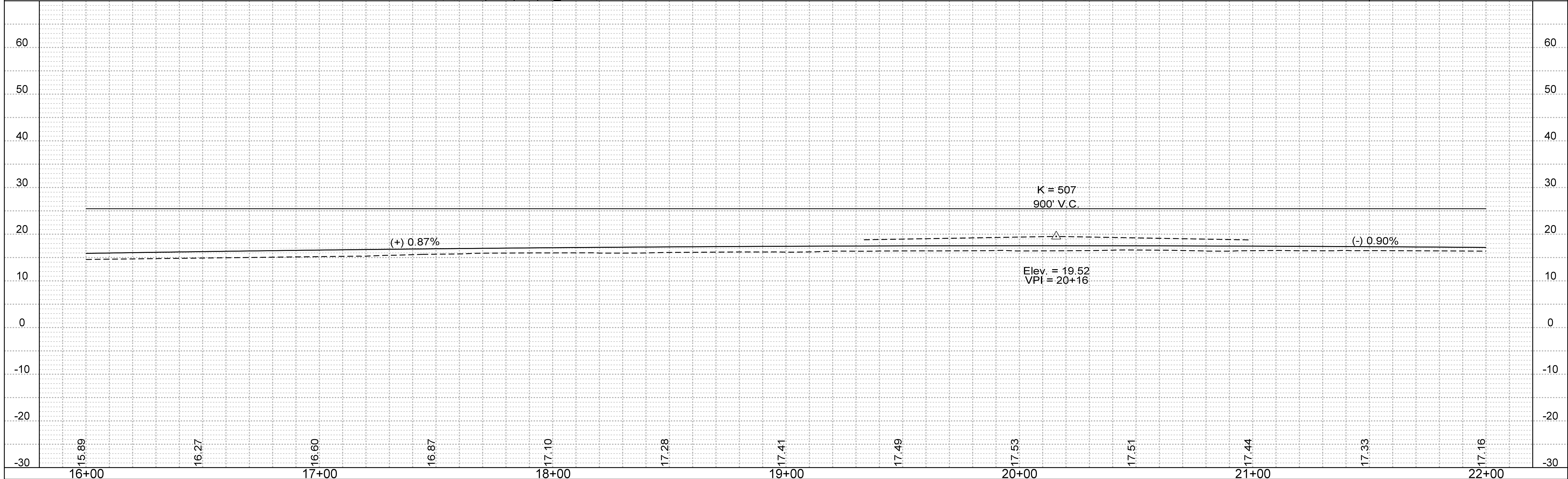
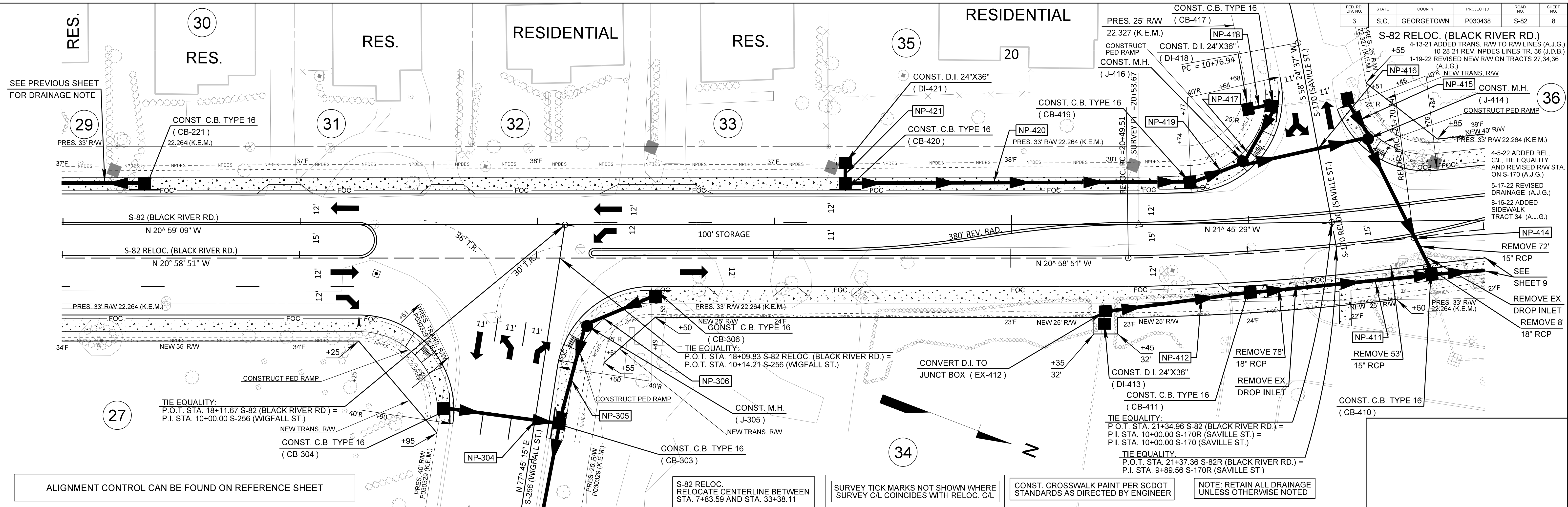


FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	7

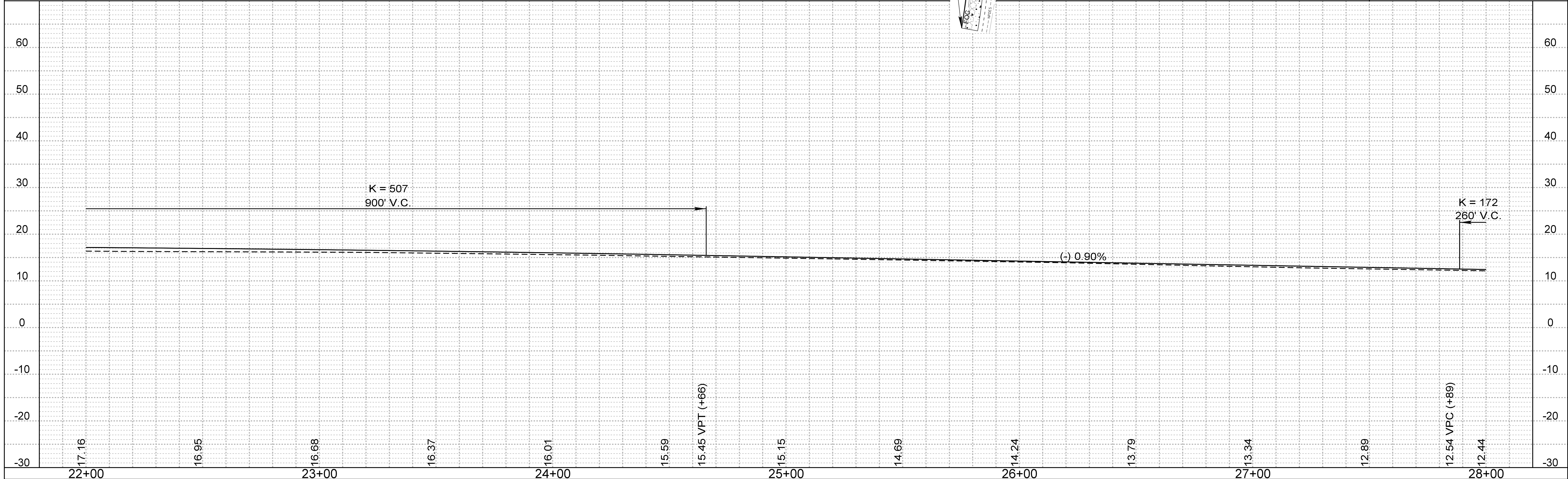
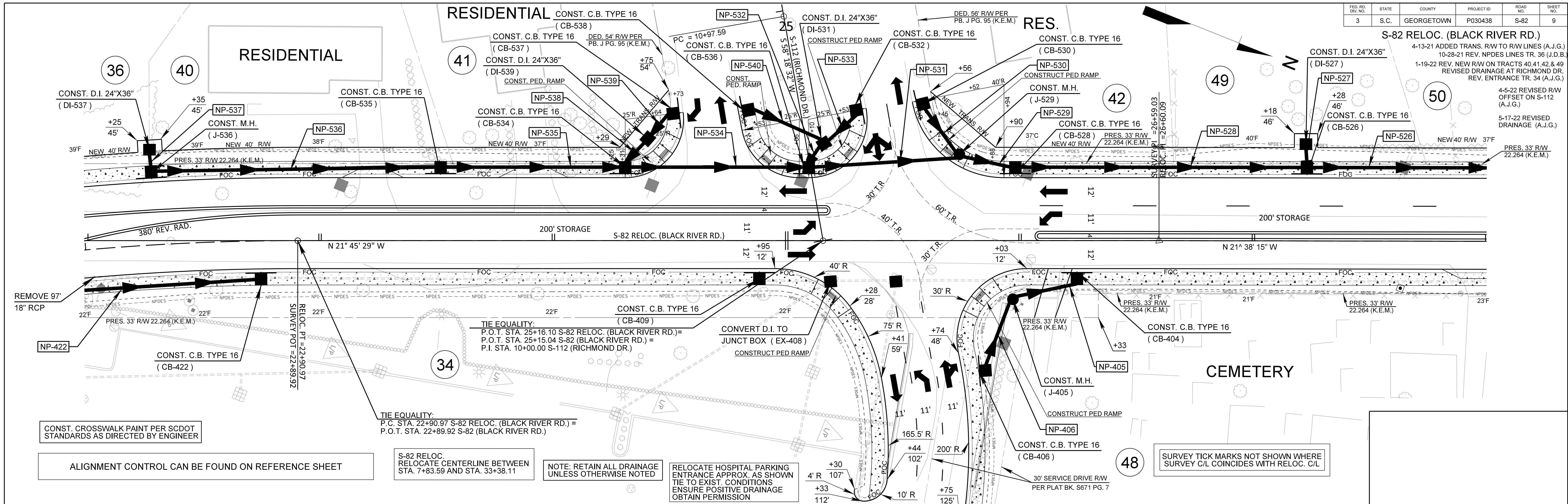
**S-82 RELOC. (BLACK RIVER RD.)**  
 4-13-21 ADDED TRANS. RAW TO RAW LINES (A.J.G.)  
 ADDED TRACT 69 TO PLANS  
 1-19-22 REVISED NEW R/W ON TRACTS 9, 10, 11, 18, 19, 24, 27, 69 AND REVISED DRAINAGE (A.J.G.)  
 4-5-22 ADDED REL. C/L AND TIE EQUALITY ON L-1231 AND MOVE R/W STA. ON S-94 (A.J.G.)  
 5-17-22 REVISED DRAINAGE (A.J.G.)



FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	8

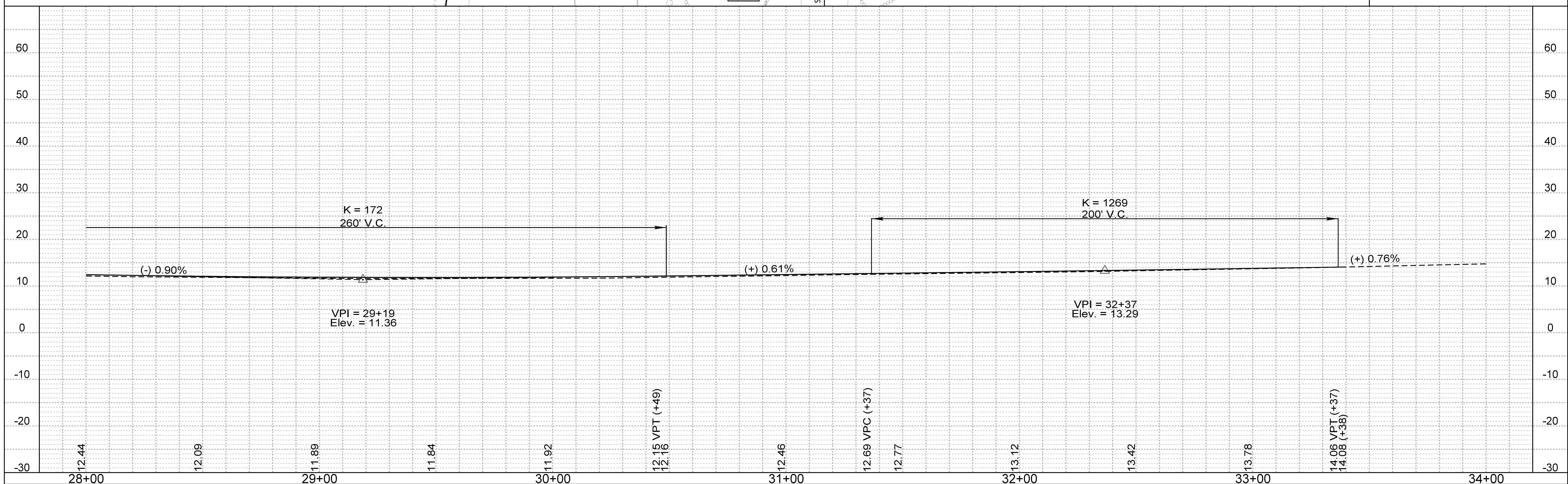
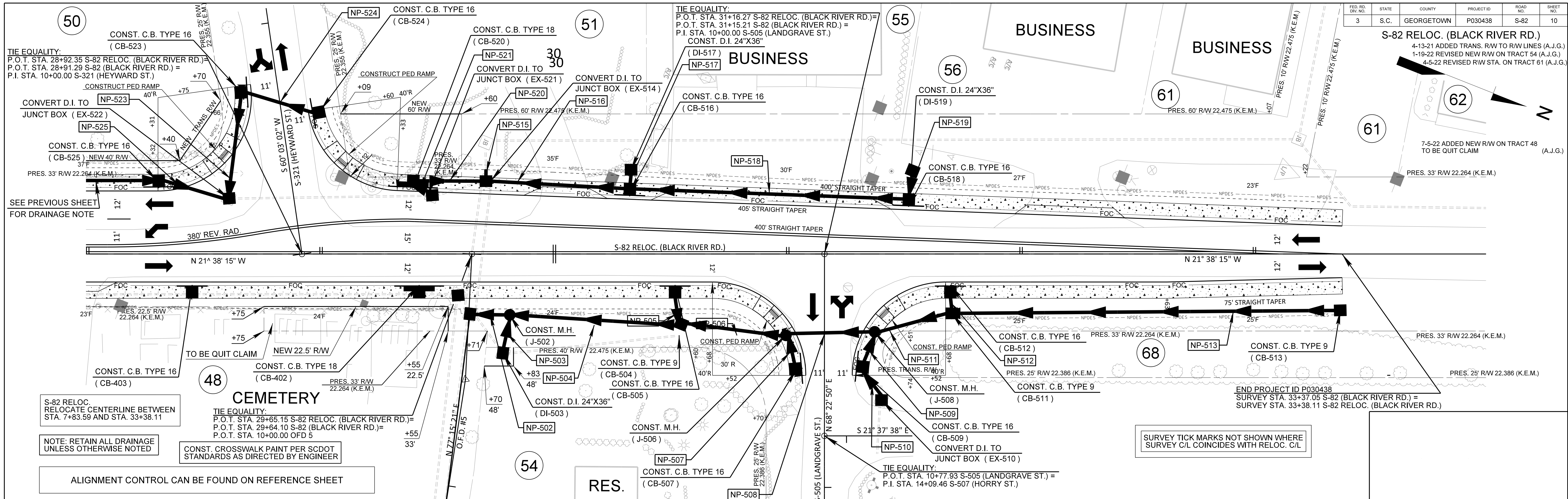


FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	9



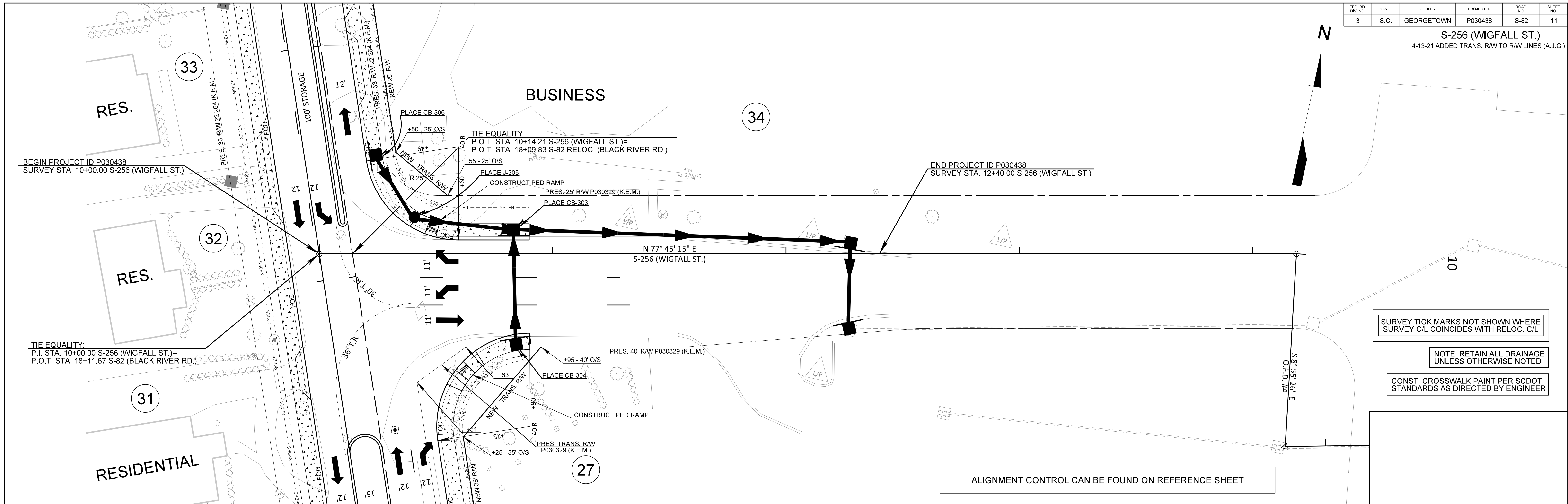
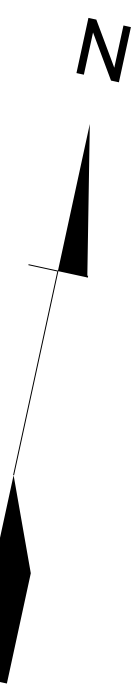


FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	10



FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	S-82	11

S-256 (WIGFALL ST.)  
4-13-21 ADDED TRANS. RW TO RW LINES (A.J.G.)

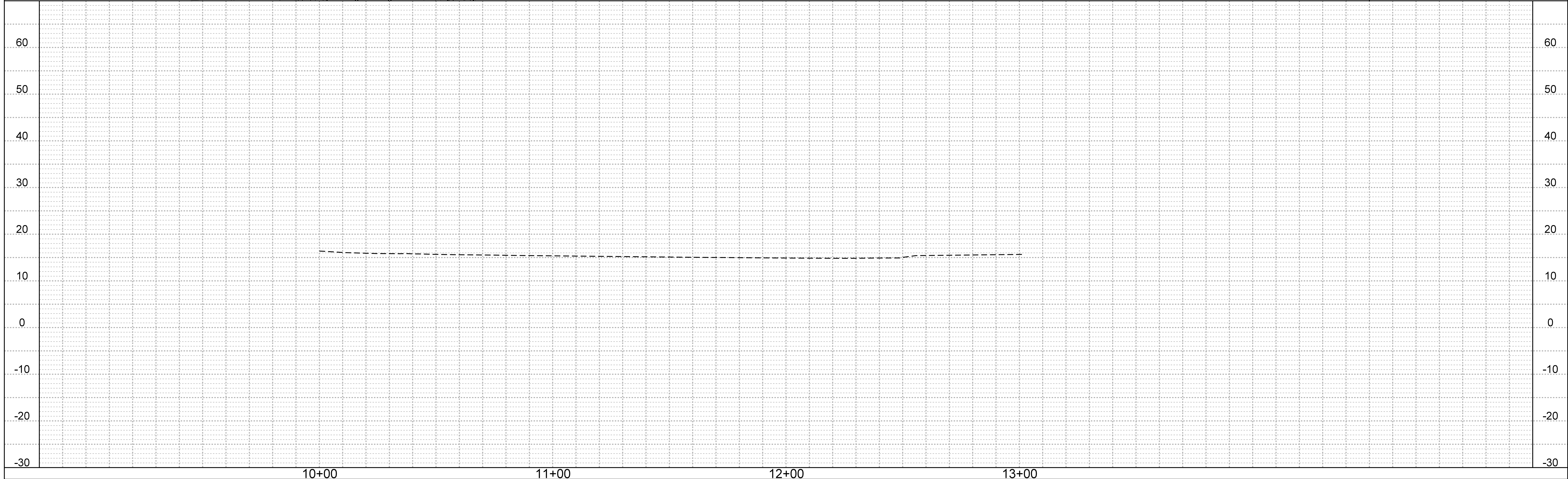


SURVEY TICK MARKS NOT SHOWN WHERE SURVEY C/L COINCIDES WITH RELOC. C/L

NOTE: RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED

CONST. CROSSWALK PAINT PER SCDOT STANDARDS AS DIRECTED BY ENGINEER

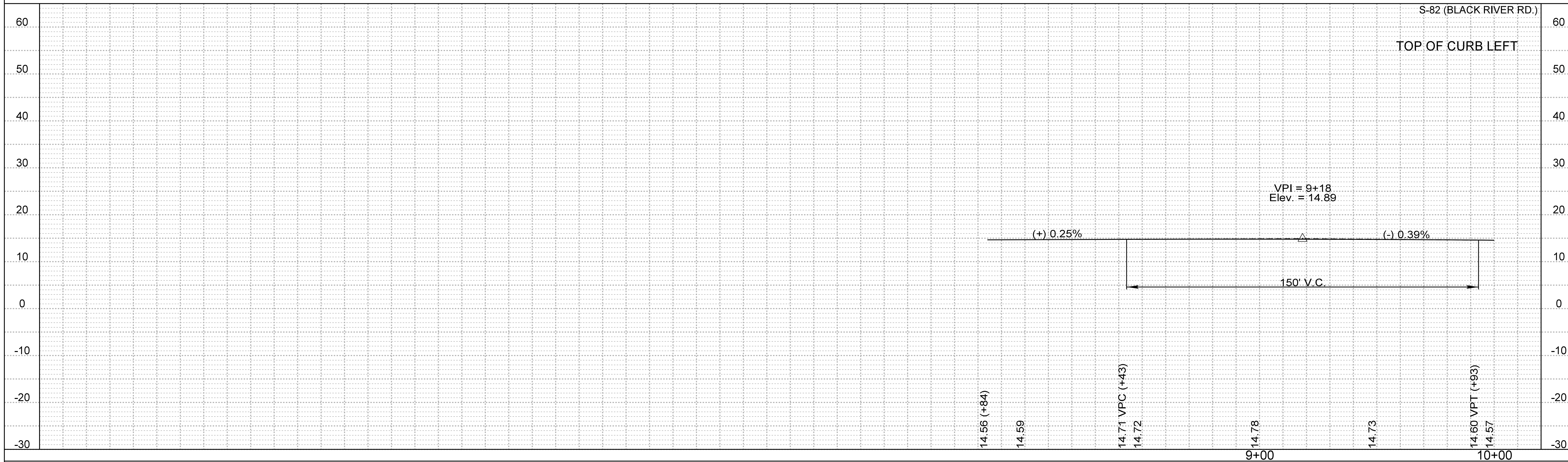
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



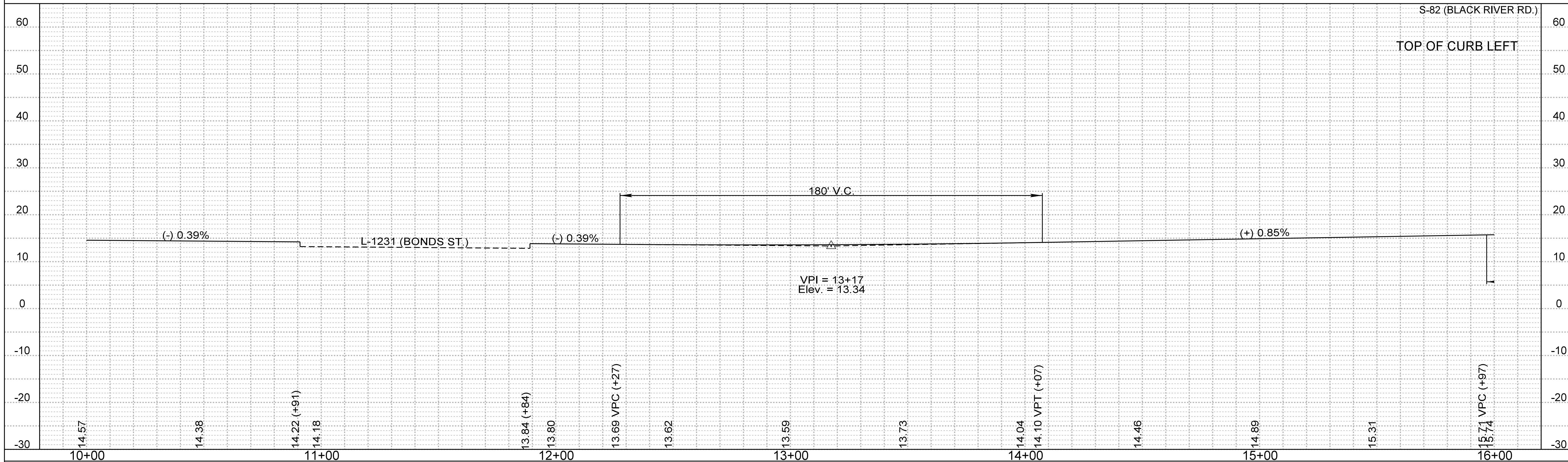
Smooth																							
System ID	Link ID	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
		Diameter (in)	No. of Barrels	Pipe Length (ft)	Slope (%)	Node	Node Description	Node Station	Link Invert (ft)	Node	Node Description	Node Station	Link Invert (ft)	Min (ft)	Max (ft)	SPT "N" below invert	Pressure (psi)	HDPE Type	Built ✓	RCP Highest Class	Built ✓	SRAP Thickest Gage	Built ✓
System 100	NP-102	18	1	22.74	4.26	CB-102	C.B. TYPE 16	8+56.62	11.16	EX-101	JUNCT BOX	8+29.88	10.19	2.11	8.06		13	S		III		16ga	
System 100	NP-103	18	1	4.95	0.30	DI-103	D.I. 24"X36"	8+56.61	11.18	CB-102	C.B. TYPE 16	8+56.62	11.16	1.00	2.11		13	S		IV		16ga	
System 100	NP-106	18	1	5.67	0.30	DI-106	D.I. 24"X36"	8+34.06	11.20	CB-105	C.B. TYPE 16	8+32.80	11.19	1.21	7.08		13	S		IV		16ga	
System 100	NP-107	18	1	86.54	0.30	DI-107	D.I. 24"X36"	9+23.81	11.46	DI-106	D.I. 24"X36"	8+34.06	11.20	1.00	1.21		13	S		IV		16ga	
System 200	NP-202	18	1	53.09	0.30	CB-202	C.B. TYPE 18	12+98.48	8.18	CB-201	C.B. TYPE 16	13+55.38	8.02	4.11	7.35		13	S		III		16ga	
System 200	NP-203	18	1	38.04	0.30	CB-203	C.B. TYPE 16	12+56.57	8.29	CB-202	C.B. TYPE 18	12+98.48	8.18	4.11	4.12		13	S		III		16ga	
System 200	NP-204	18	1	15.03	0.30	J-204	M.H.	12+37.78	8.34	CB-203	C.B. TYPE 16	12+56.57	8.29	4.12	5.22		13	S		III		16ga	
System 200	NP-205	18	1	35.34	0.30	CB-205	C.B. TYPE 16	10+56.82	8.65	J-204	M.H.	12+37.78	8.54	2.00	5.22		13	S		III		16ga	
System 200	NP-206	18	1	77.21	0.30	J-206	M.H.	11+59.19	8.57	J-204	M.H.	12+37.78	8.34	4.71	5.22		13	S		III		16ga	
System 200	NP-207	18	1	34.09	0.30	CB-207	C.B. TYPE 16	10+64.28	8.67	J-206	M.H.	11+59.19	8.57	2.00	4.71		13	S		III		16ga	
System 200	NP-208	18	1	15.96	3.06	CB-208	C.B. TYPE 16	11+39.87	10.77	J-206	M.H.	11+59.19	10.28	2.00	4.71		13	S		III		16ga	
System 200	NP-210	48	1	53.19	0.32	CB-210	C.B. TYPE 16	13+60.50	5.18	CB-201	C.B. TYPE 16	13+55.38	5.01	4.60	4.85		13	S		III		12ga	
System 200	NP-211	48	1	5.12	0.39	DI-211	D.I. 24"X24"	13+61.12	5.20	CB-210	C.B. TYPE 16	13+60.50	5.18	2.58	4.60		13	S		III		12ga	
System 200	NP-212	18	1	72.62	0.30	CB-212	C.B. TYPE 18	12+83.88	9.08	CB-210	C.B. TYPE 16	13+60.50	8.86	3.00	7.10		13	S		III		16ga	
System 200	NP-213	18	1	4.99	5.00	DI-213	D.I. 24"X36"	12+85.17	9.33	CB-212	C.B. TYPE 18	12+83.88	9.08	1.76	3.00		13	S		III		16ga	
System 200	NP-214	18	1	27.03	0.85	DI-214	D.I. 24"X36"	12+53.92	9.31	CB-212	C.B. TYPE 18	12+83.88	9.08	2.31	3.00		13	S		III		16ga	
System 200	NP-215	18	1	72.53	0.30	CB-215	C.B. TYPE 16	11+76.38	9.53	DI-214	D.I. 24"X36"	12+53.92	9.31	2.31	2.86		13	S		III		16ga	
System 200	NP-216	18	1	27.88	1.84	CB-216	C.B. TYPE 16	10+42.19	10.90	CB-215	C.B. TYPE 16	11+76.38	10.39	2.00	2.86		13	S		III		16ga	
System 200	NP-217	18	1	62.98	0.30	J-217	M.H.	11+11.50	9.71	CB-215	C.B. TYPE 16	11+76.38	9.53	2.86	3.00		13	S		III		16ga	
System 200	NP-218	18	1	21.96	4.21	CB-218	C.B. TYPE 16	10+44.32	10.64	J-217	M.H.	11+11.50	9.71	2.00	3.00		13	S		III		16ga	
System 200	NP-219	18	1	22.94	4.46	CB-219	C.B. TYPE 16	10+85.91	10.74	J-217	M.H.	11+11.50	9.71	2.00	3.00		13	S		III		16ga	
System 200	NP-220	18	1	4.76	5.00	DI-220	D.I. 24"X36"	10+84.78	10.98	CB-219	C.B. TYPE 16	10+85.91	10.74	1.15	2.00		13	S		IV		16ga	
System 200	NP-221	18	1	270.24	0.83	CB-221	C.B. TYPE 16	16+34.74	12.52	CB-210	C.B. TYPE 16	13+60.50	10.28	2.00	7.10		13	S		III		16ga	
System 200	NP-222	18	1	63.58	0.71	CB-222	C.B. TYPE 16	14+22.64	10.78	CB-201	C.B. TYPE 16	13+55.38	10.33	2.00	7.35		13	S		III		16ga	
System 200	NP-223	18	1	5.77	1.62	DI-223	D.I. 24"X36"	14+20.22	10.87	CB-222	C.B. TYPE 16	14+22.64	10.78	1.00	2.00		13	S		IV		16ga	
System 200	NP-224	18	1	148.51	0.90	CB-224	C.B. TYPE 16	15+75.15	12.12	CB-222	C.B. TYPE 16	14+22.64	10.78	2.00	2.00		13	S		III		16ga	
System 300	NP-302	18	1	33.10	0.30	EX-302	C.B. TYPE 16	12+27.29	11.07	EX-301	C.B. TYPE 16	12+26.50	10.97	2.00	3.23		13	S		III		16ga	
System 300	NP-303	18	1	140.75	0.88	CB-303	C.B. TYPE 16	10+83.19	12.30	EX-302	C.B. TYPE 16	12+27.29	11.07	2.00	2.47		13	S		III		16ga	
System 300	NP-304	18	1	45.48	0.30	CB-304	C.B. TYPE 16	10+83.89	12.44	CB-303	C.B. TYPE 16	10+83.19	12.30	2.00	2.47		13	S		III		16ga	
System 300	NP-305	18	1	39.12	0.30	J-305	M.H.	18+21.33	12.84	CB-303	C.B. TYPE 16	10+83.19	12.72	2.47	3.00		13	S		III		16ga	
System 300	NP-306	18	1	27.80	3.98	CB-306	C.B. TYPE 16	18+50.17	13.94	J-305	M.H.	18+21.33	12.84	2.00	3.00		13	S		III		16ga	
System 400	NP-405	18	1	26.60	0.30	J-405	M.H.	25+97.48	9.91	CB-404	C.B. TYPE 16	26+24.89	9.83	3.00	5.56		13	S		III		16ga	
System 400	NP-406	18	1	29.21	4.10	CB-406	C.B. TYPE 16	25+82.84	11.11	J-405	M.H.	25+97.48	9.91	2.00	3.00		13	S		III		16ga	
System 400	NP-411	18	1	72.80	0.30	CB-411	C.B. TYPE 16	21+00.00	10.07	CB-410	C.B. TYPE 16	21+75.79	9.85	6.03	6.05		13	S		III		16ga	
System 400	NP-412	18	1	57.64	0.36	EX-412	JUNCT BOX	20+39.73	10.28	CB-411	C.B. TYPE 16	21+00.00	10.07	3.39	6.03		13	S		III		16ga	
System 400	NP-414	18	1	59.82	0.30	J-414	M.H.	21+55.92	10.85	CB-410	C.B. TYPE 16	21+75.79	10.67	3.00	6.05		13	S		III		16ga	
System 400	NP-415	18	1	15.72	5.00	EX-415	D.I. 24"X36"	10+49.99	11.64	J-414	M.H.	21+55.92	10.85	2.27	3.00		13	S		III		16ga	
System 400	NP-416	18	1	51.01	3.06	J-416	M.H.	21+00.25	12.41	J-414	M.H.	21+55.92	10.85	3.00	3.38		13	S		III		16ga	
System 400	NP-417	18	1	25.33	0.30	CB-417	C.B. TYPE 16	10+52.04	12.49	J-416	M.H.	21+00.25	12.41	2.00	3.38		13	S		III		16ga	
System 400	NP-418	18	1	5.91	3.91	DI-418	D.I. 24"X36"	10+53.34	12.72	CB-417	C.B. TYPE 16	10+52.04	12.49	1.00	2.00		13	S		IV		16ga	
System 400	NP-419	18	1	20.24	2.46	CB-419	C.B. TYPE 16	20+76.79	13.29	J-416	M.H.	21+00.25	12.80	2.52	3.38		13	S		III		16ga	
System 400	NP-420	18	1	141.32	0.30	CB-420	C.B. TYPE 16	19+30.21	13.72	CB-419	C.B. TYPE 16	20+76.79	13.29	2.07	2.52		13	S		III		16ga	
System 400	NP-421	18	1	4.55	0.30	DI-421	D.I. 24"X36"	19+30.23	13.73	CB-420	C.B. TYPE 16	19+30.21	13.72	1.00	2.07		13	S		IV		16ga	
System 400	NP-422	18	1	93.60	0.52	CB-410	C.B. TYPE 16	21+75.79	9.85	CB-422	C.B. TYPE 16	22+75.00	9.37	6.05	6.10		13	S		III		16ga	
System 500	NP-502	18	1	13.21	0.53	J-502	M.H.	29+81.39	5.17	EX-501	D.I. 24"X36"	29+66.84	5.10	3.54	6.45		13	S		III		16ga	
System 500	NP-503	18	1	12.82	0.30	DI-503	D.I. 24"X36"	29+80.92	5.21	J-502	M.H.	29+81.39	5.17	1.00	3.54		13	S		IV		16ga	
System 500	NP-504	18	1	69.30	0.94	CB-504	C.B. TYPE 9	30+53.97	6.36	J-502	M.H.	29+81.39	5.71	3.33	3.54		13	S		III		16ga	
System 500	NP-505	18	1	14.40	5.00	CB-505	C.B. TYPE 16	30+52.23	8.41	CB-504	C.B. TYPE 9	30+53.97	7.69	2.43	3.33		13	S		III		16ga	
System 500	NP-506	18	1	41.93	0.30	J-506	M.H.	30+99.74	6.49	CB-504	C.B. TYPE 9	30+53.97	6.36	3.33	4.55		13	S		III		16ga	
System 500	NP-507	18	1	11.17	5.00	CB-507	C.B. TYPE 16	10+48.97	8.59	J-506	M.H.	30+99.74	8.03	2.36	4.55		13	S		III		16ga	
System 500	NP-508	18	1	34.39	0.30	J-508	M.H.	31+37.76	6.59	J-506	M.H.	30+99.74	6.49	3.80	4.55		13	S		III		16ga	
System 500	NP-509	18	1	12.14	5.00	CB-509	C.B. TYPE 16	10+48.05	8.00	J-508	M.H.	31+37.76	7.39	3.23	3.80		13	S		III		16ga	
System 500	NP-510	18	1	13.05	5.00	EX-510	JUNCT BOX	10+65.10	9.88	CB-509	C.B. TYPE 16	10+48.05	9.23	1.16	3.23		13	S		IV		16ga	
System 500	NP-511	18	1	30.23	0.30	CB-511	C.B. TYPE 9	31+70.77	6.68	J-508	M.H.	31+37.76	6.59	2.00	3.80		13	S		III		16ga	
System 500	NP-512	18	1	4.96	5.00	CB-512	C.B. TYPE 16	31+70.25	6.93	CB-511	C.B. TYPE 9	31+70.77	6.68	2.00	4.65		13	S		III		16ga	
System 500	NP-513	18	1	162.53	0.85	CB-513	C.B. TYPE 9	33+37.36	8.06	CB-511	C.B. TYPE 9	31+70.77	6.68	2.00	2.00		13	S		III		16ga	
System 500	NP-515	15	1	3.05	0.10	DN-515	DUMMY JOINT	29+71.20	9.20	EX-514	JUNCT BOX	29+71.17	9.20	0.00	7.07		13	S		III		16ga	
System 500	NP-516	18	1	57.80	0.30	CB-516	C.B. TYPE 16	30+32.77	8.48	EX-514	JUNCT BOX	29+71.17	8.30	2.00	6.82		13	S		III		16ga	
System 500	NP-517	18	1	4.18	5.00	DI-517	D.I. 24"X36"	30+33.39	8.69	CB-516	C.B. TYPE 16	30+32.77	8.48	1.15	2.00		13	S		IV		16ga	

Smooth																							
System ID	Link ID	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
		Diameter (in)	No. of Barrels	Pipe Length (ft)	Slope (%)	Node	Node Description	Node Station	Link Invert (ft)	Node	Node Description	Node Station	Link Invert (ft)	Min (ft)	Max (ft)	SPT "N" below invert	Pressure (psi)	HDPE Type	Built ✓	RCP Highest Class	Built ✓	SRAP Thickest Gage	Built ✓
System 500	NP-523	18	1	41.70	0.30	CB-523	C.B. TYPE 16	10+72.01	7.71	EX-522	JUNCT BOX	10+30.58	7.58	2.20	6.69		13	S		III		16ga	
System 500	NP-524	18	1	31.01	0.30	CB-524	C.B. TYPE 16	10+58.90	7.80	CB-523	C.B. TYPE 16	10+72.01	7.71	2.00	2.20		13	S		III		16ga	
System 500	NP-525	18	1	27.34	0.30	CB-525	C.B. TYPE 16	28+30.98	8.26	EX-522	JUNCT BOX	10+30.58	8.18	2.30	6.69		13	S		III		16ga	
System 500	NP-526	18	1	103.55	0.30	CB-526	C.B. TYPE 16	27+23.40	8.57	CB-525	C.B. TYPE 16	28+30.98	8.26	2.30	2.91		13	S		III		16ga	
System 500	NP-527	18	1	6.02	0.30	DI-527	D.I. 24"X36"	27+22.96	8.59	CB-526	C.B. TYPE 16	27+23.40	8.57	1.00	2.91		13	S		IV		16ga	
System 500	NP-528	18	1	120.95	0.30	CB-528	C.B. TYPE 16	25+98.51	8.93	CB-526	C.B. TYPE 16	27+23.40	8.57	2.91	3.68		13	S		III		16ga	
System 500	NP-529	18	1	20.95	0.30	J-529	M.H.	25+74.51	9.81	CB-528	C.B. TYPE 16	25+98.51	9.75	3.00	3.68		13	S		III		16ga	
System 500	NP-530	18	1	23.02	5.00	CB-530	C.B. TYPE 16	10+50.19	10.96	J-529	M.H.	25+74.51	9.81	2.03	3.00		13	S		III		16ga	
System 500	NP-531	18	1	61.68	1.80	CB-536	C.B. TYPE 16	25+09.97	10.92	J-529	M.H.	25+74.51	9.81	2.50	3.00		13	S		III		16ga	
System 500	NP-532	18	1	8.53	0.30	DI-531	D.I. 24"X36"	25+15.12	10.96	CB-536	C.B. TYPE 16	25+09.97	10.93	1.89	2.50		13	S		III		16ga	
System 500	NP-533	18	1	16.69	0.30	CB-532	C.B. TYPE 16	10+52.69	11.01	DI-531	D.I. 24"X36"	25+15.12	10.96	1.89	2.00		13	S		III		16ga	
System 500	NP-534	18	1	74.66	0.30	CB-534	C.B. TYPE 16	24+31.31	11.14	CB-536	C.B. TYPE 16	25+09.97	10.92	2.50	2.96		13	S		III		16ga	
System 500	NP-535	18	1	75.11	0.30	CB-535	C.B. TYPE 16	23+52.20	11.37	CB-534	C.B. TYPE 16	24+31.31	11.14	2.96	3.34		13	S		III		16ga	
System 500	NP-536	18	1	120.07	0.30	CB-531	C.B. TYPE 16	22+29.96	11.73	CB-535	C.B. TYPE 16	23+52.20	11.37	2.00	3.34		13	S		III		16ga	
System 500	NP-537	18	1	5.34	5.00	DI-537	D.I. 24"X36"	22+29.90	11.99	CB-531	C.B. TYPE 16	22+29.96	11.73	1.73	2.00		13	S		III		16ga	
System 500	NP-538	18	1	12.05	2.87	DI-539	D.I. 24"X36"	24+39.10	12.45	CB-534	C.B. TYPE 16	24+31.31	12.10	1.00	2.96		13	S		IV		16ga	
System 500	NP-539	18	1	11.65	1.12	CB-537	C.B. TYPE 16	24+54.64	12.58	DI-539	D.I. 24"X36"	24+39.10	12.45	1.00	1.00		13	S		IV		16ga	
System 500	NP-540	18	1	31.92	2.19	CB-538	C.B. TYPE 16	24+81.34	12.55	DI-531	D.I. 24"X36"	25+15.12	11.85	1.00	1.89		13	S		IV		16ga	

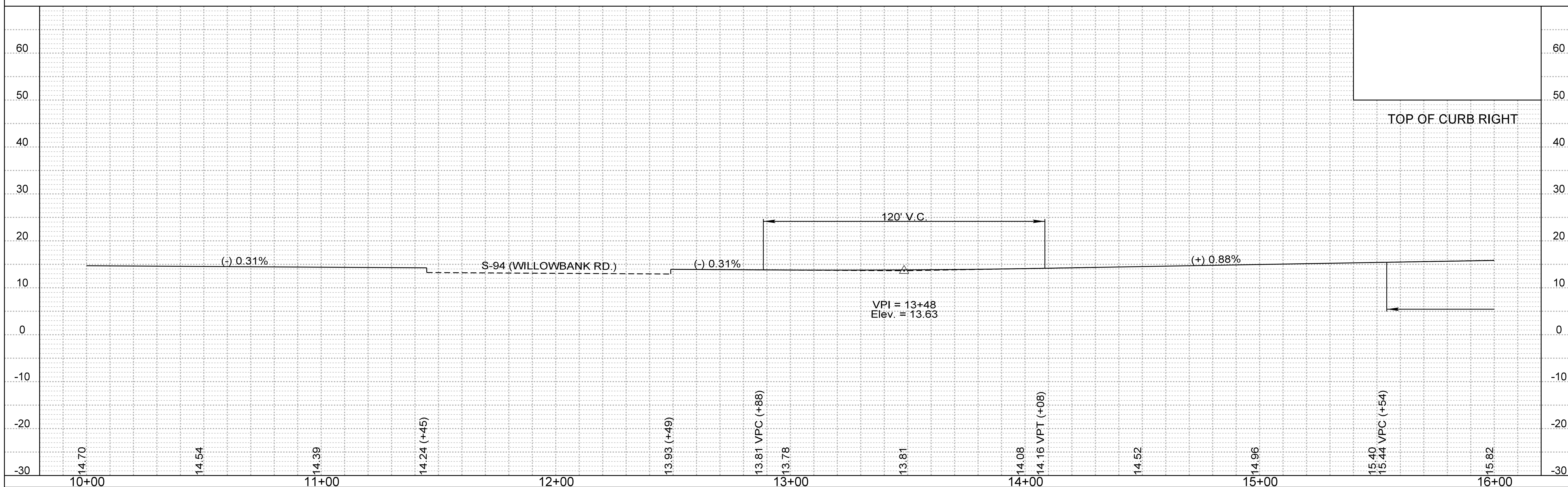
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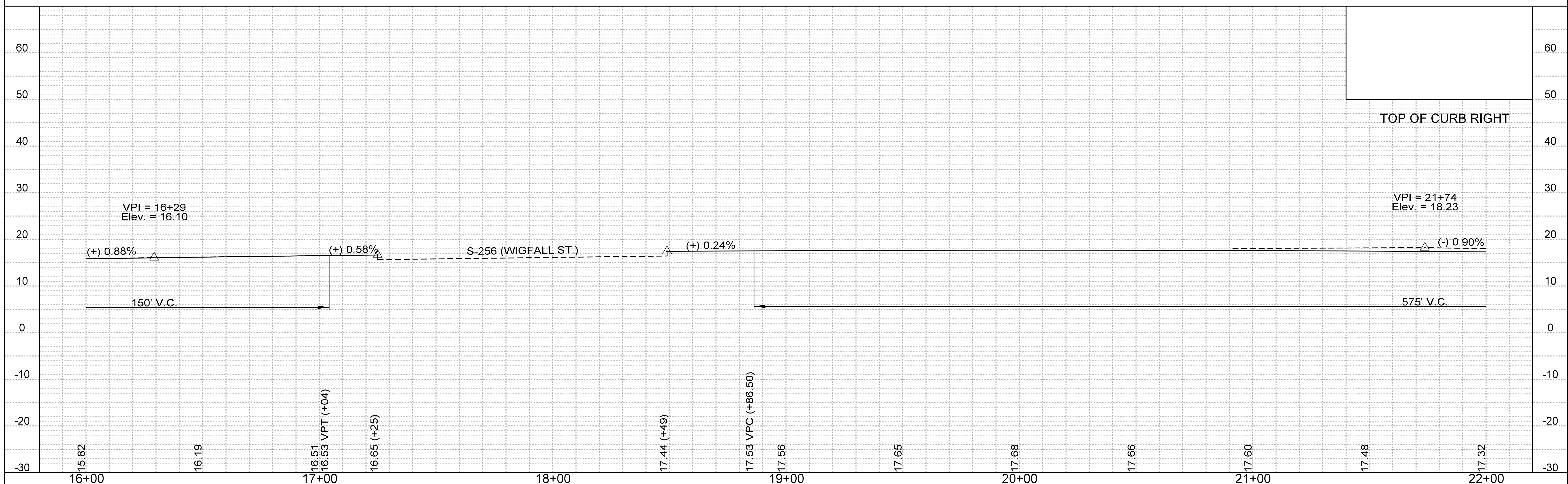
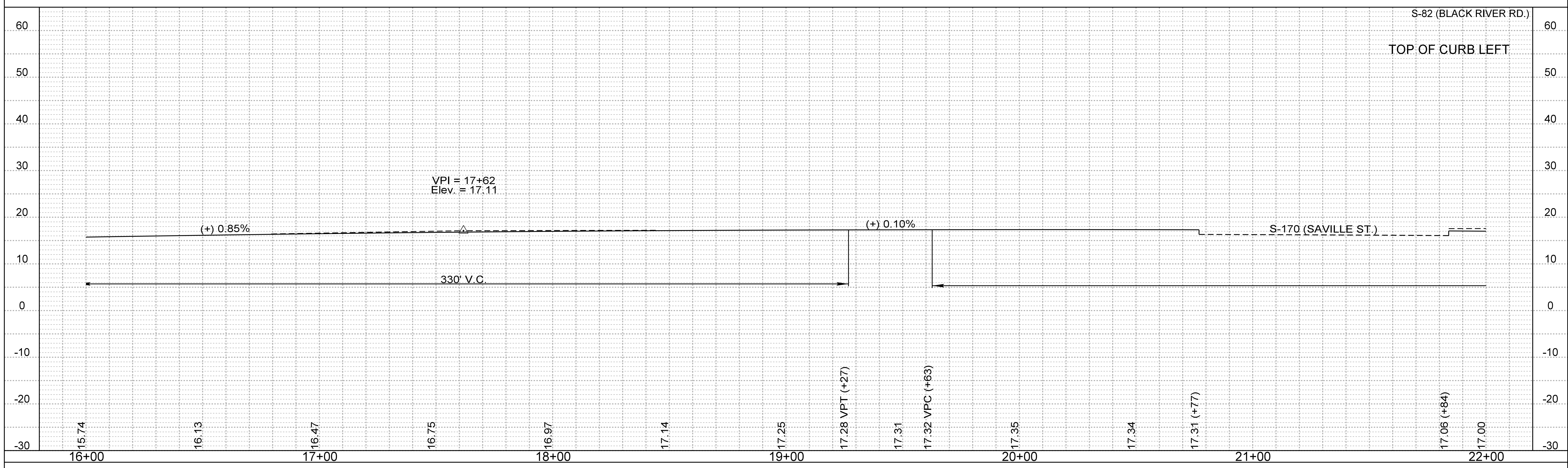
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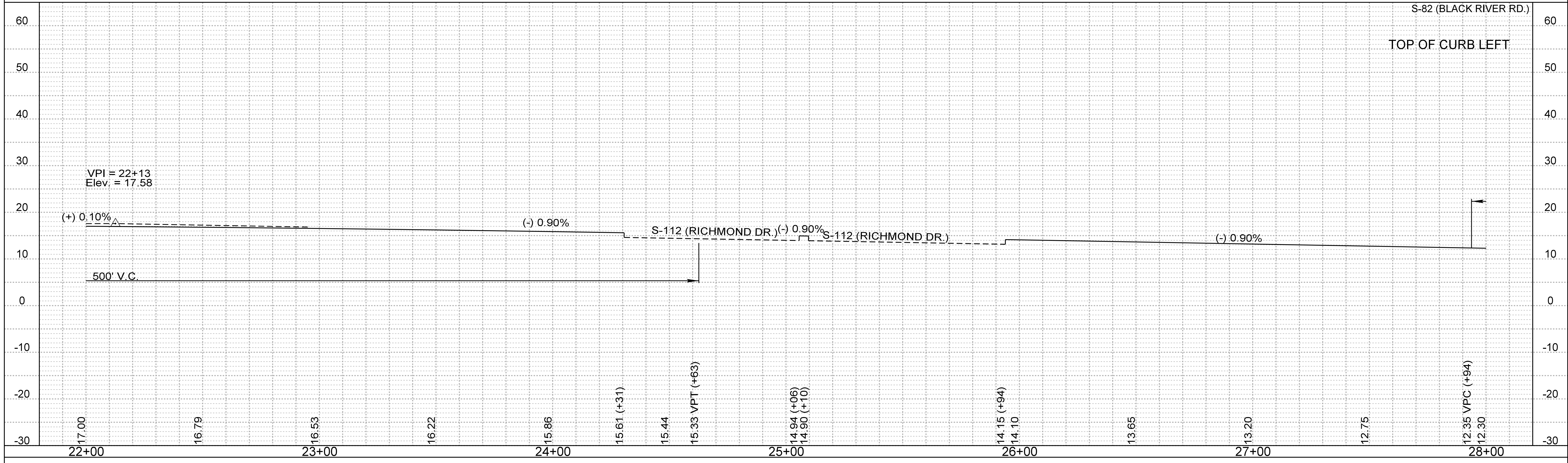
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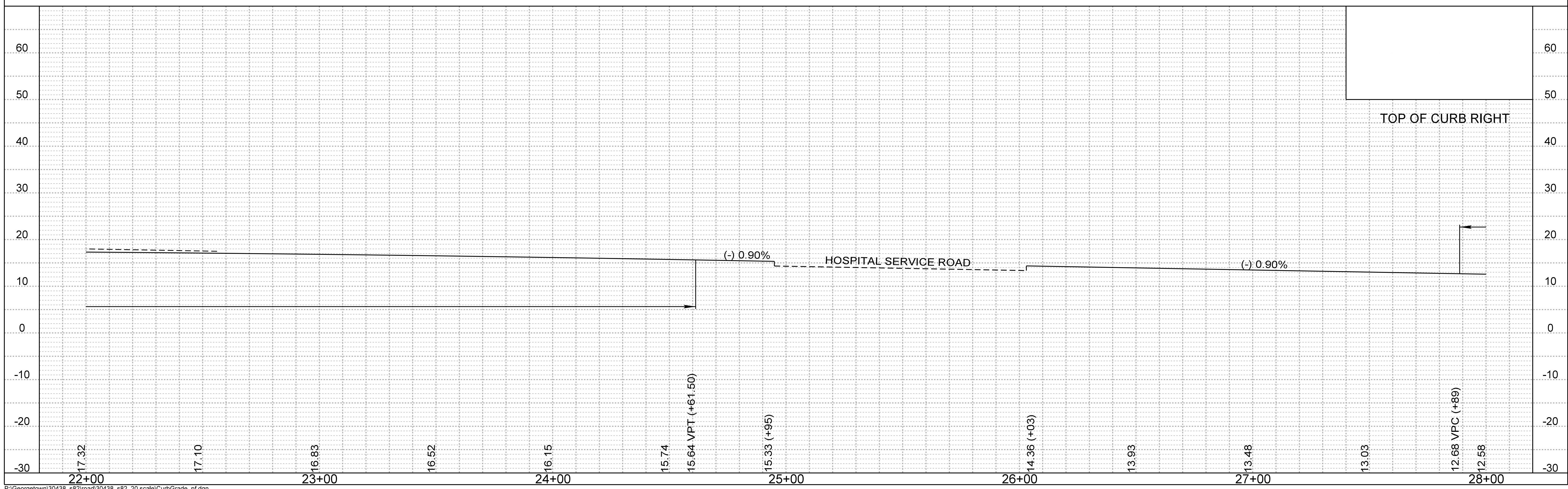
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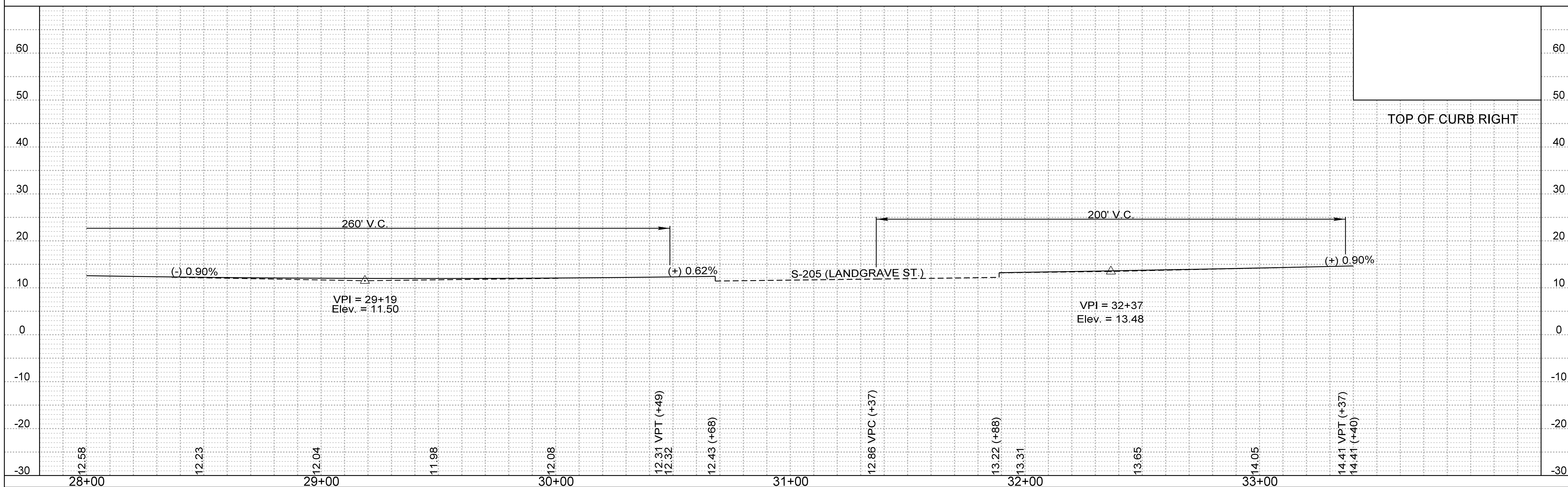
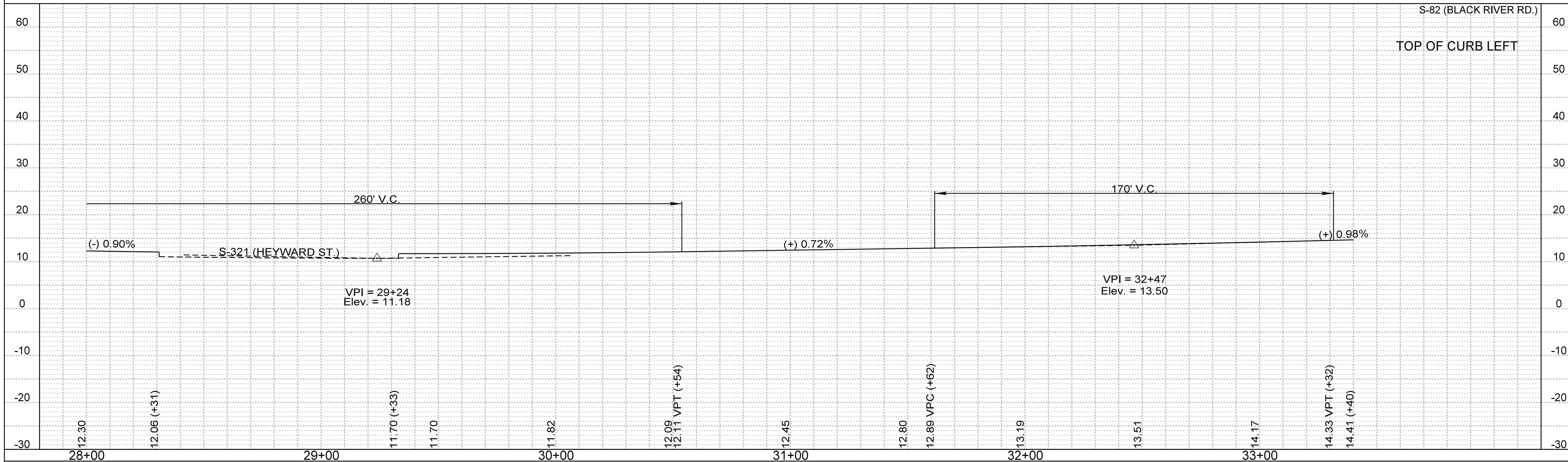


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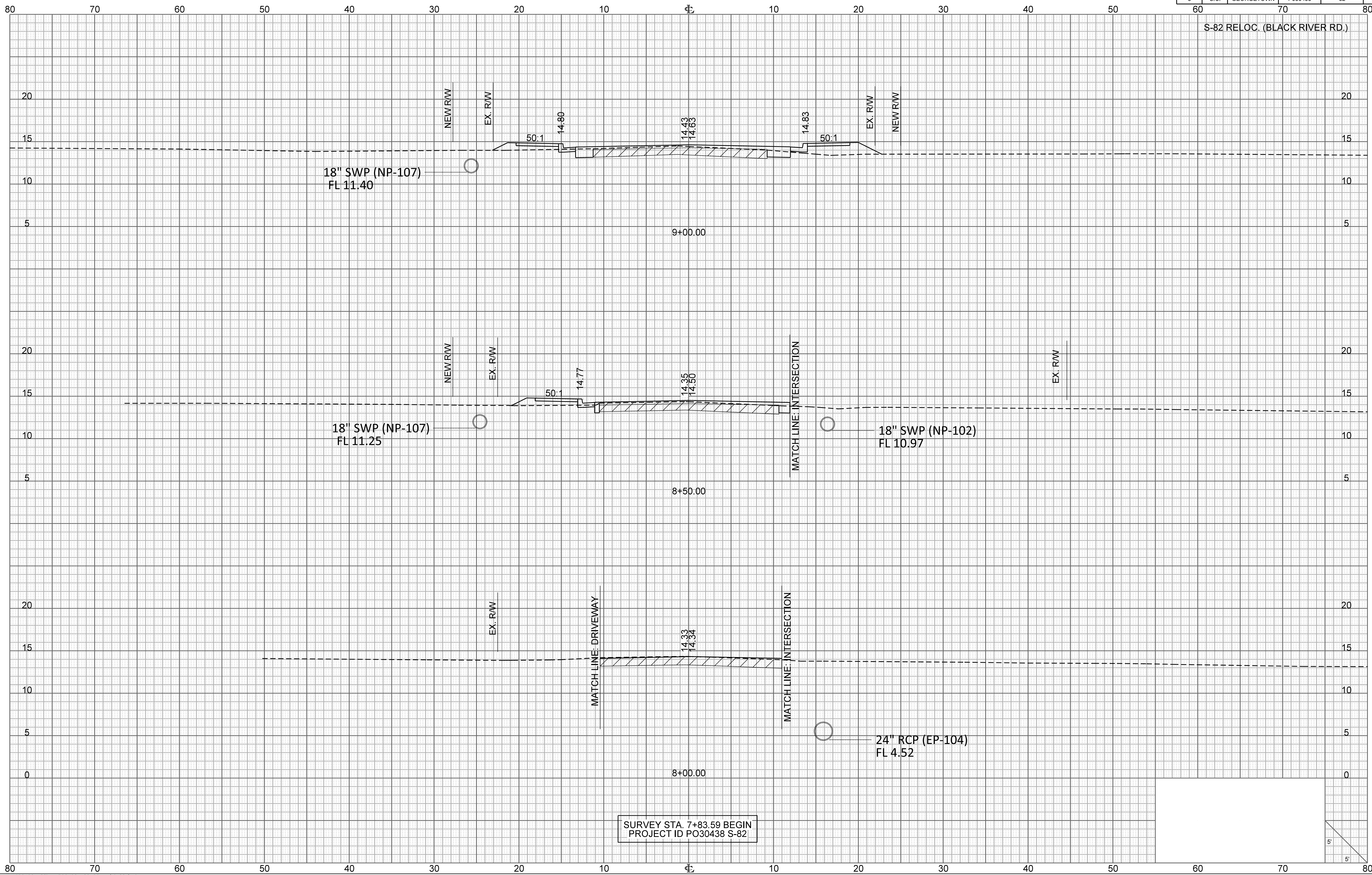


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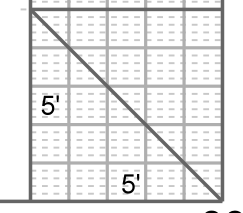




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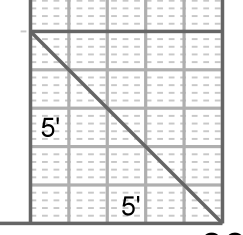
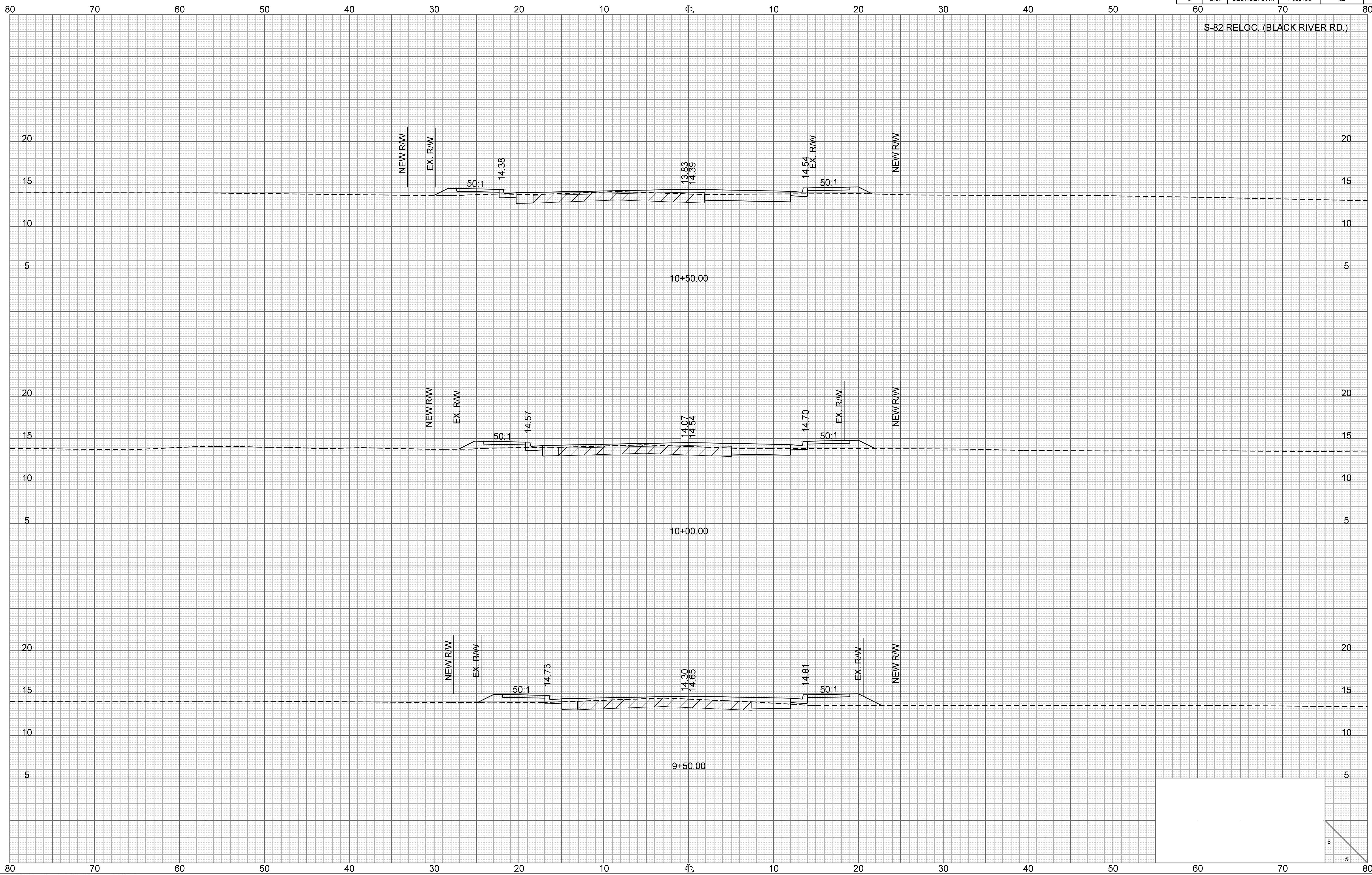


SURVEY STA. 7+83.59 BEGIN  
PROJECT ID P030438 S-82



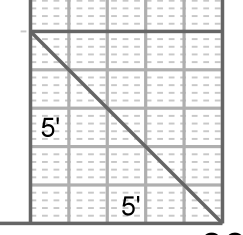
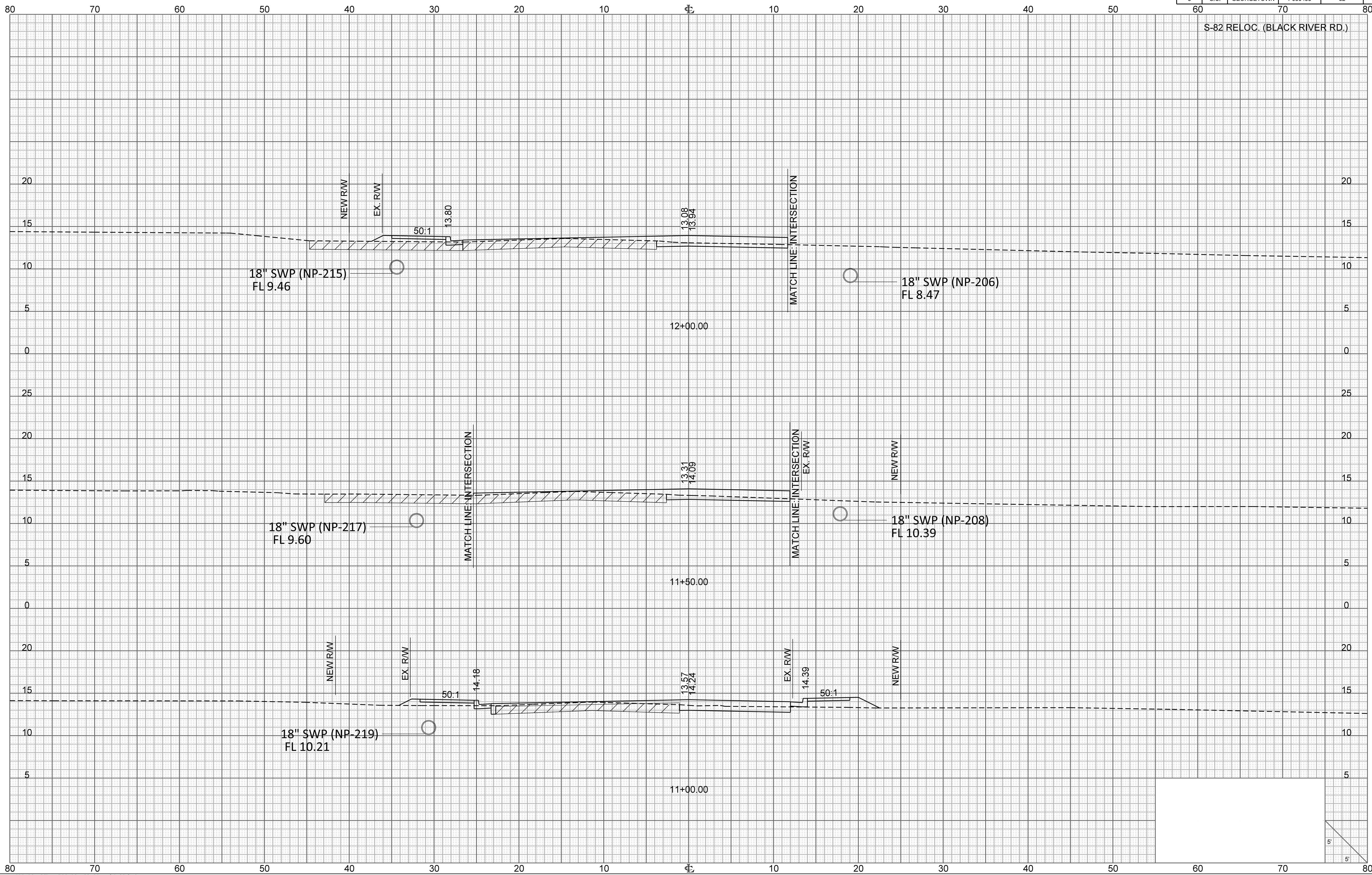
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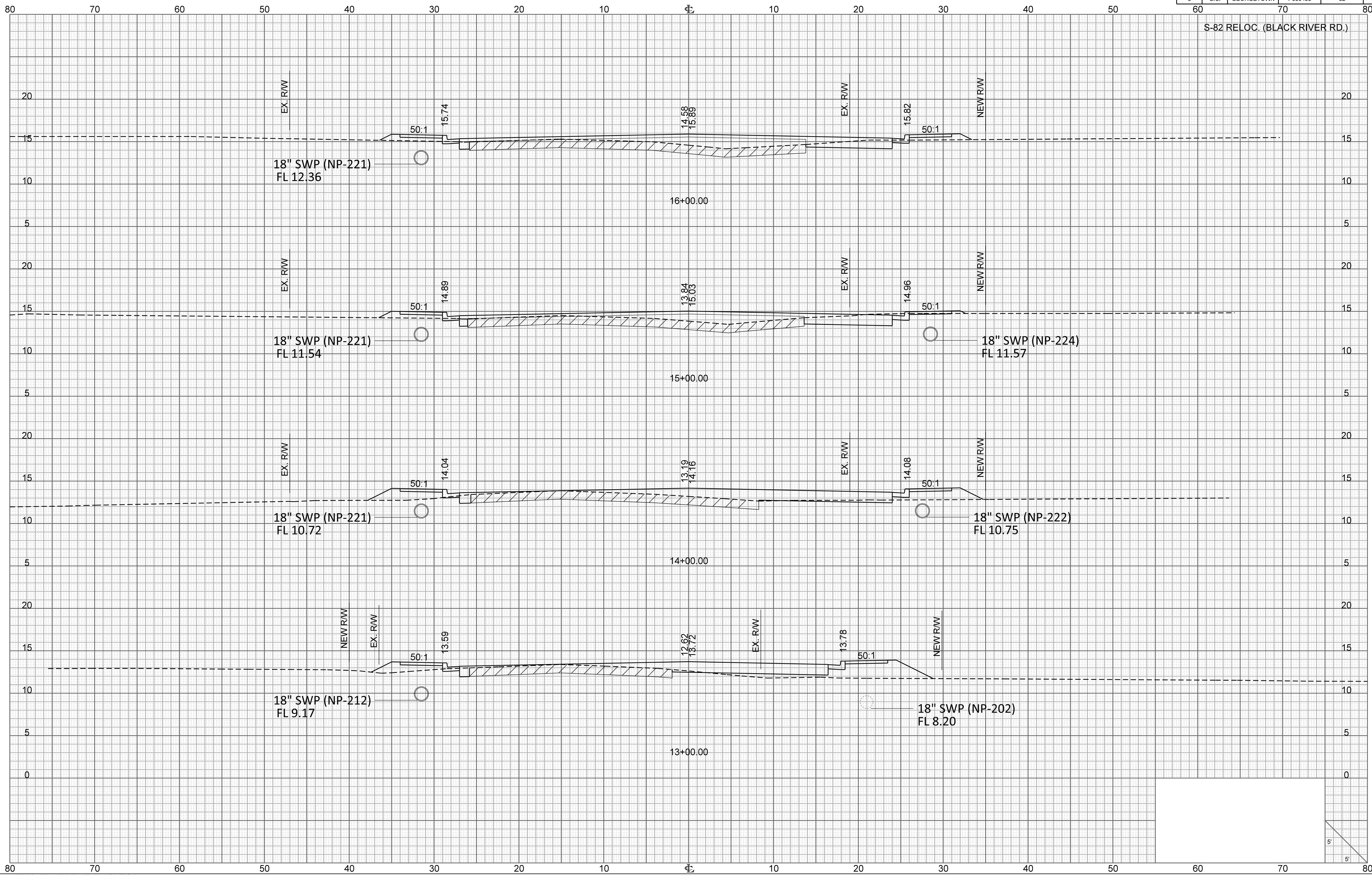
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S-82 RELOC. (BLACK RIVER RD.)



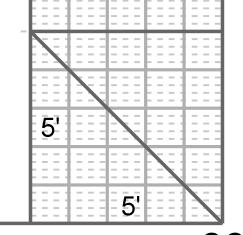
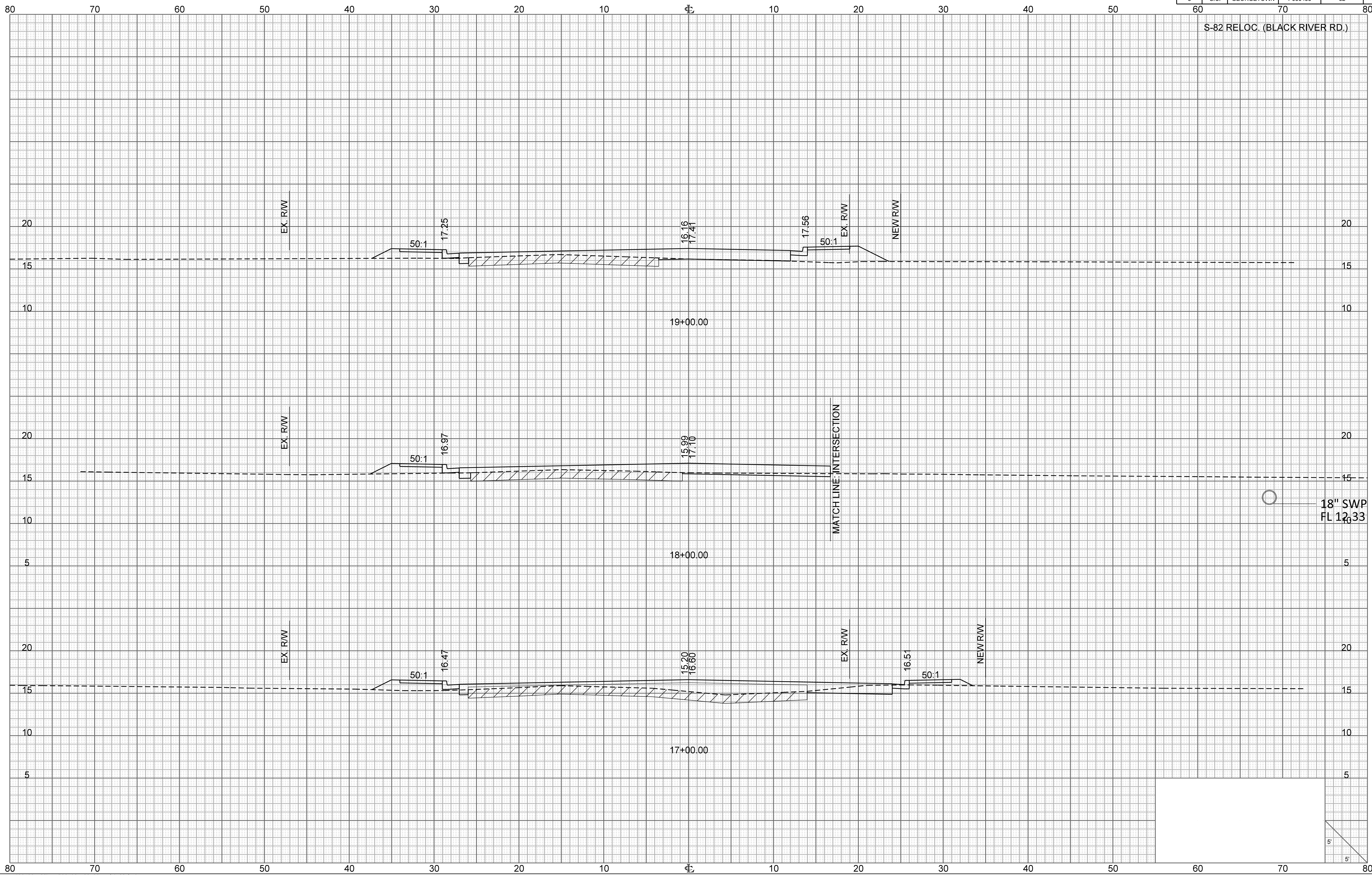
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S-82 RELOC. (BLACK RIVER RD.)

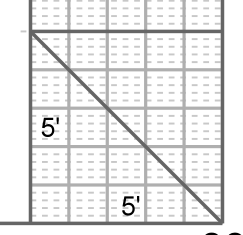
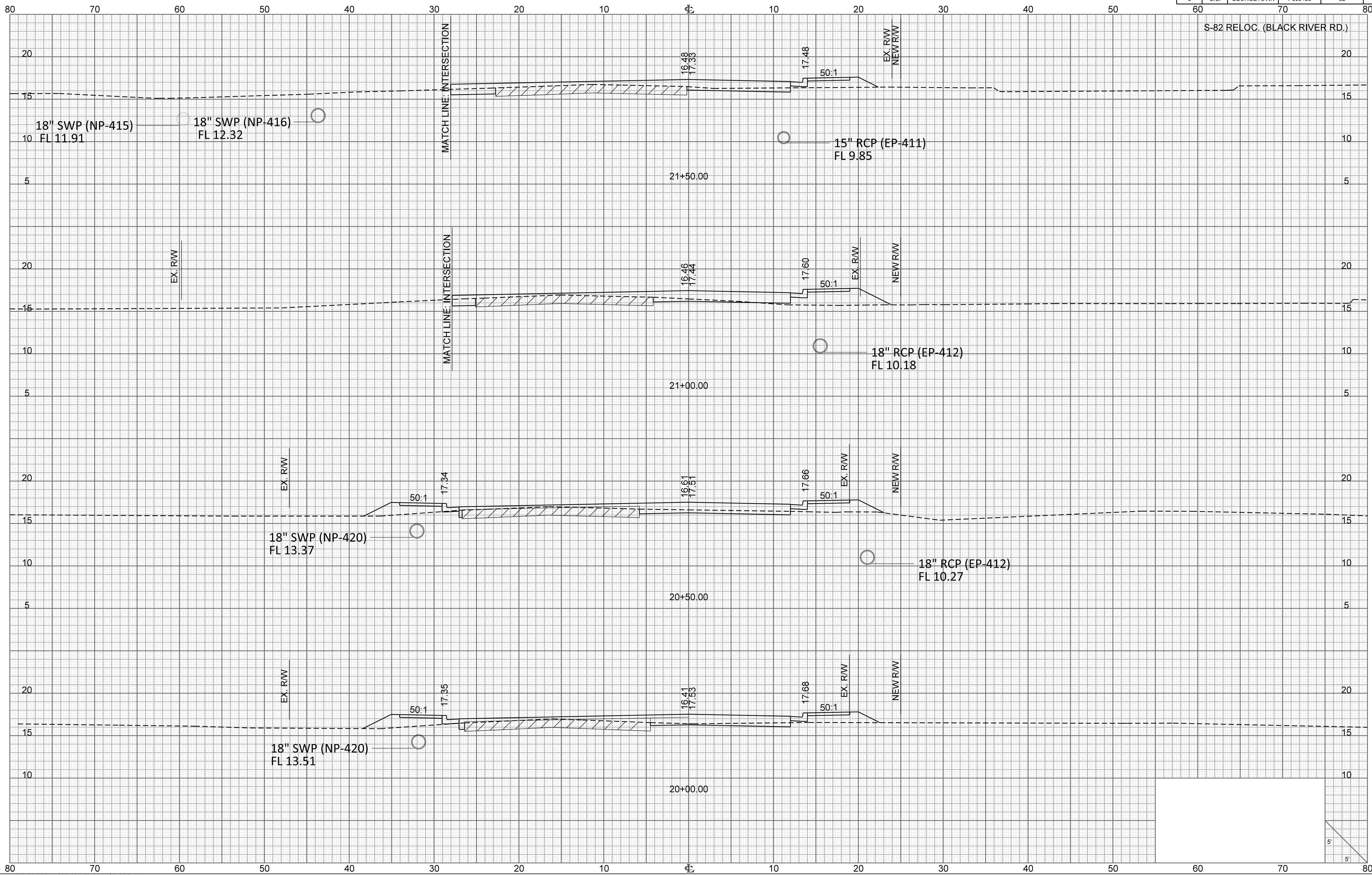


FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	X5

S-82 RELOC. (BLACK RIVER RD.)



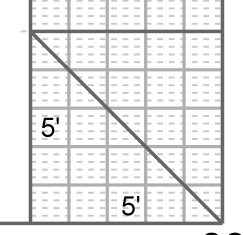
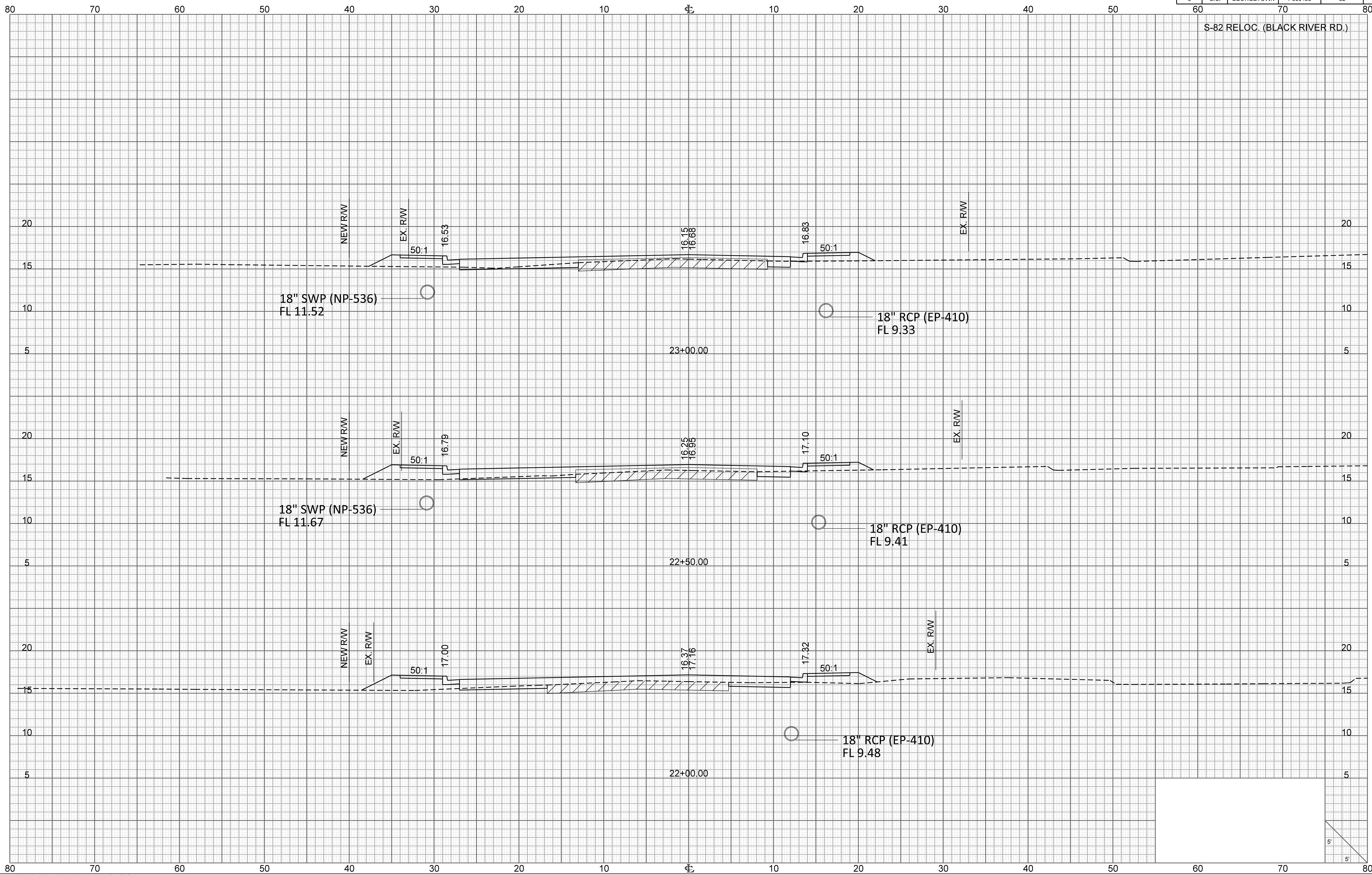
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3	S.C.	GEORGETOWN	P030438	82	X6





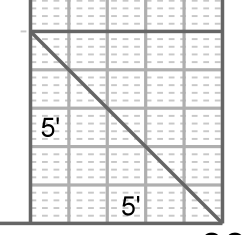
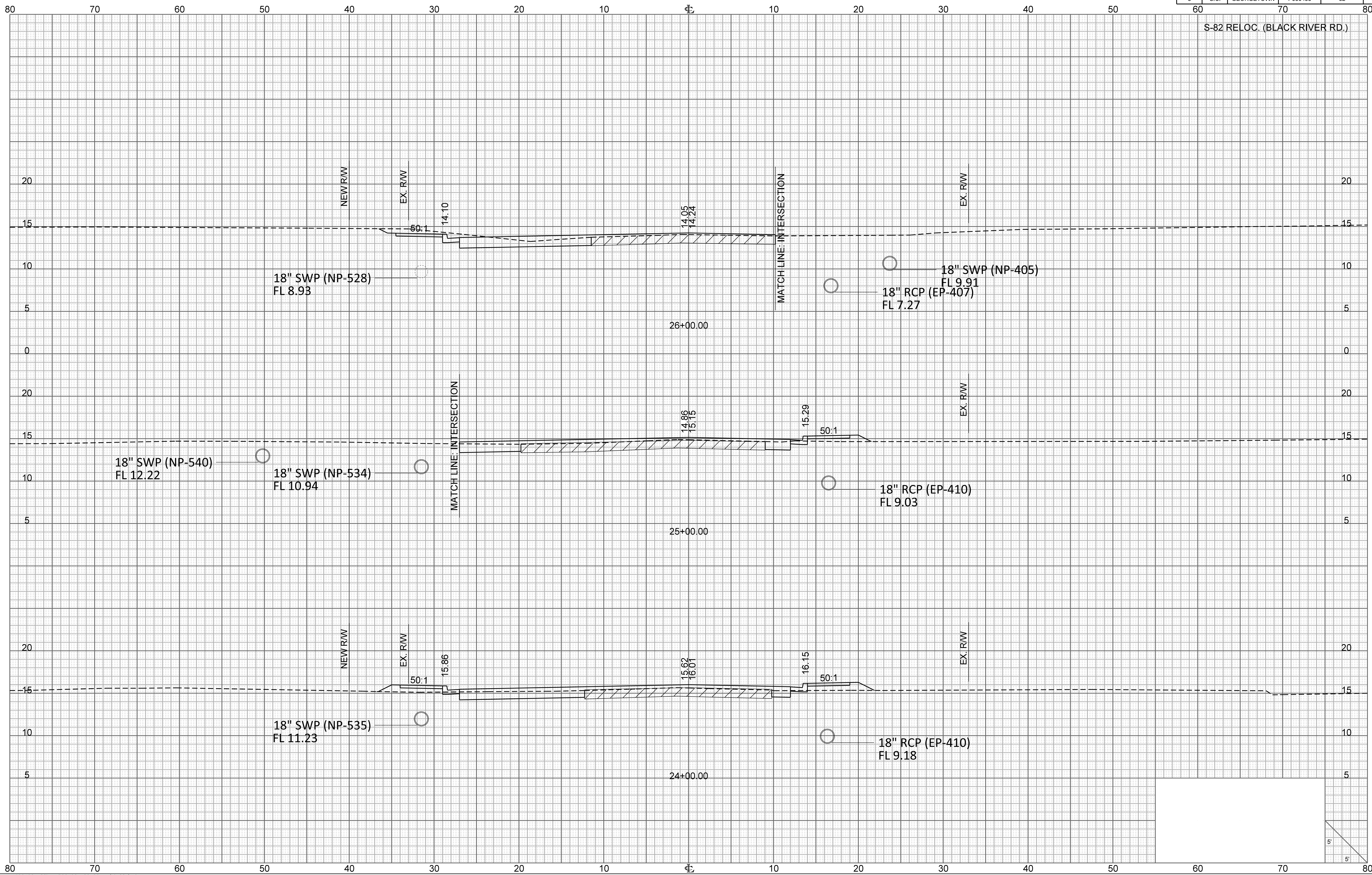
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RTE NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	X7

S-82 RELOC. (BLACK RIVER RD.)



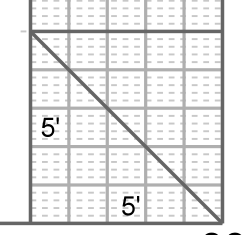
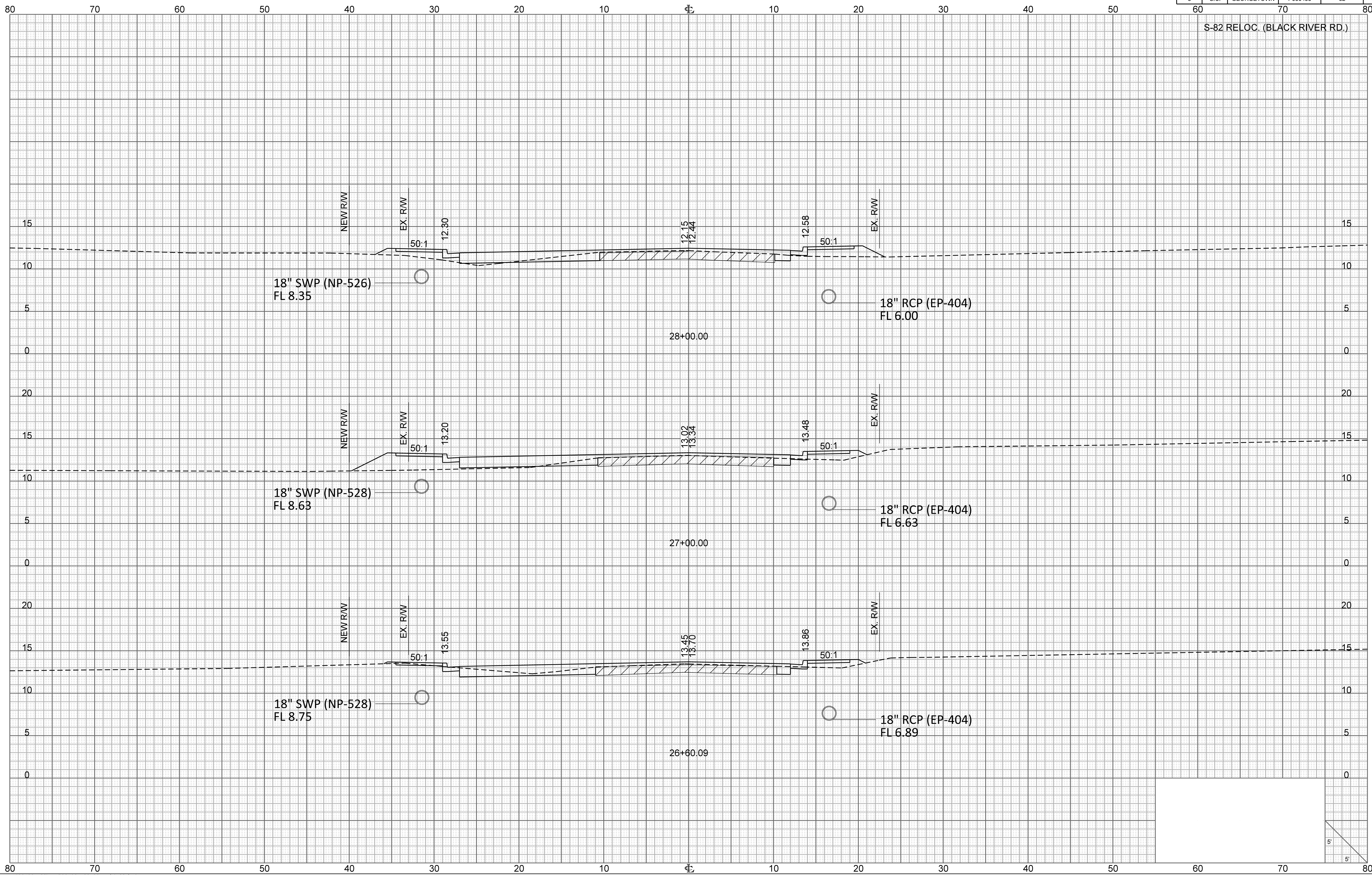
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RYE NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	X8

S-82 RELOC. (BLACK RIVER RD.)



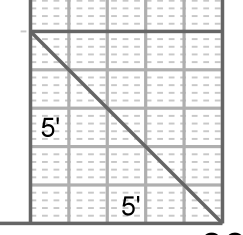
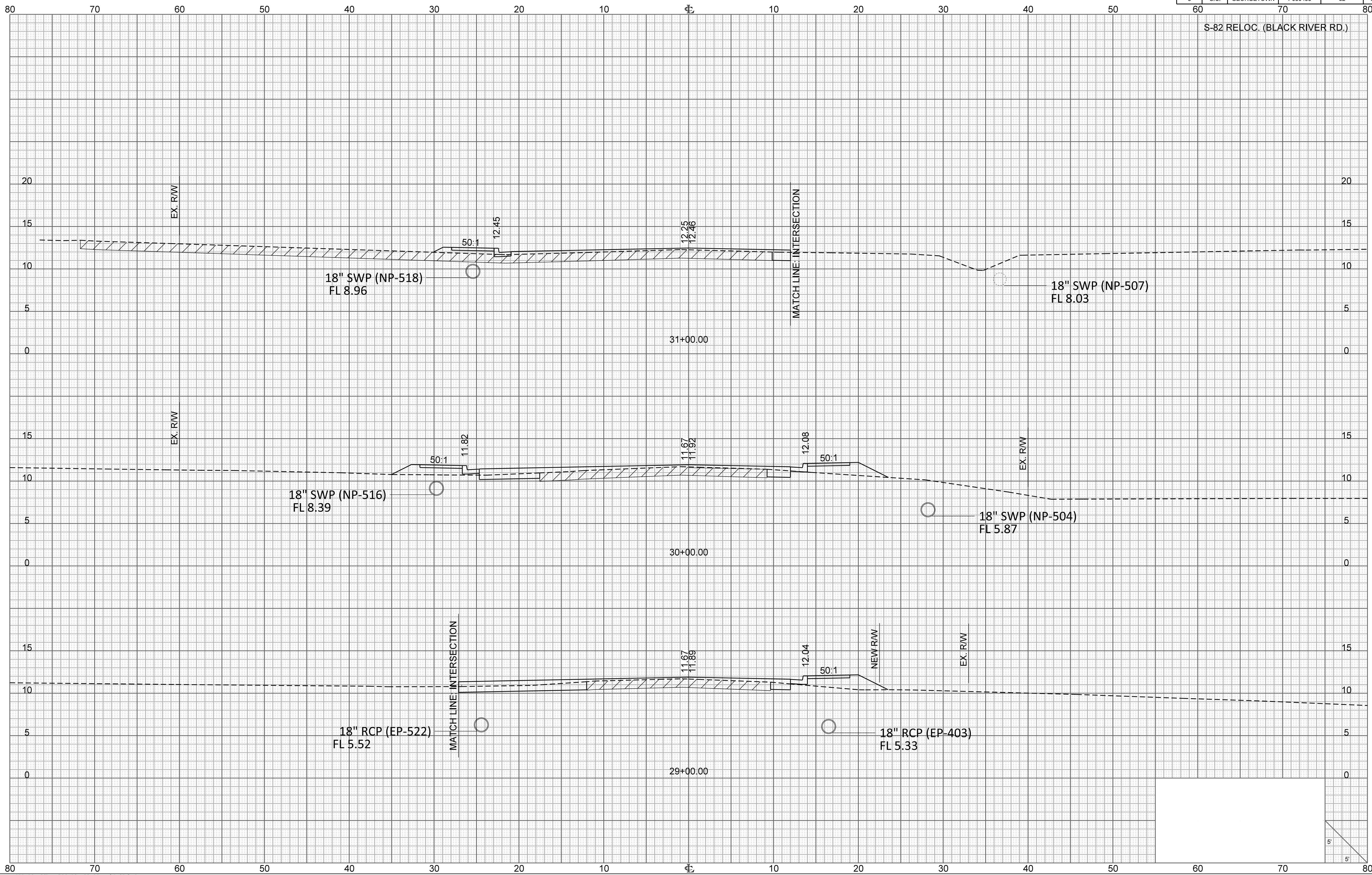
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RYE NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	X9

S-82 RELOC. (BLACK RIVER RD.)



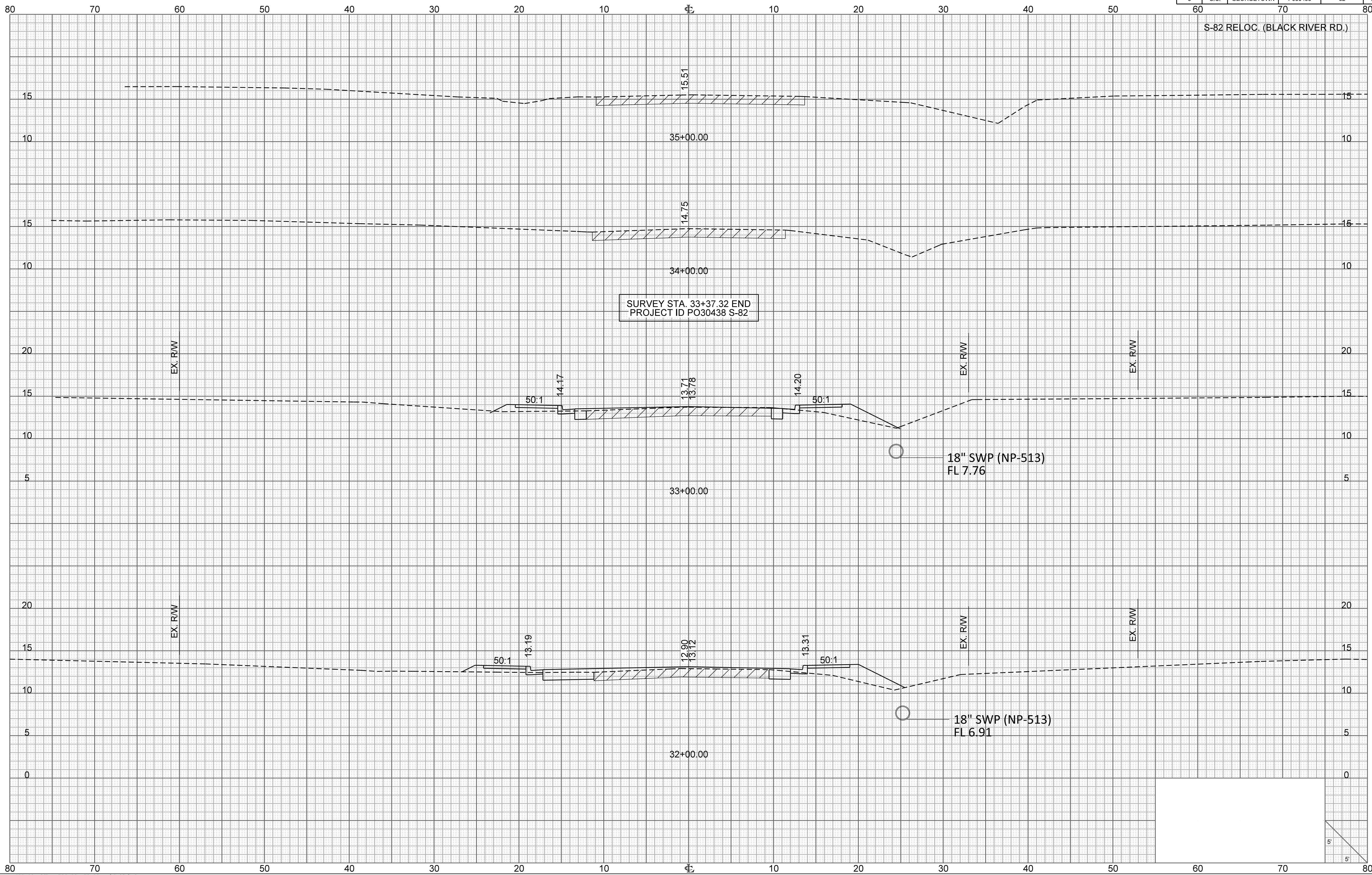
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	X10

S-82 RELOC. (BLACK RIVER RD.)



FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	X11

S-82 RELOC. (BLACK RIVER RD.)



FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RYE NO.	SHEET NO.
3	S.C.	GEORGETOWN	P030438	82	XL1

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

S-82 RELOC.

