

PROJECT MANAGER TIM MOITSCH (434) 970-3395
SURVEYED BY, DATE H&B SURVEYING AND MAPPING, LLC
DESIGN BY KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE ACCUMARK, 03/01/2018

FOR INDEX OF SHEETS SEE SHEET 1A

THIS PROJECT WAS DEVELOPED UTILIZING AUTOCAD'S
DESIGN PACKAGE (CIVIL 3D).
CIVIL 3D Computer Identification No. 109480



CITY OF CHARLOTTESVILLE
NEIGHBORHOOD DEVELOPMENT SERVICES



PLAN AND PROFILE OF PROPOSED
CITY HIGHWAY

STATE	FEDERAL AID	ROUTE	STATE	SHEET NO.
	PROJECT		PROJECT	
VA.	NHPP-5104(XXX) (SEE TABULATION BELOW FOR SECTION NUMBERS)	20	(NFO) U000-104-298 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA			
CLASSIFICATION	9TH STREET/HIGH STREET (ROUTE 20)		E. MARKET STREET
	URBAN PRINCIPAL ARTERIAL - ROLLING - DIVIDED		URBAN PRINCIPAL ARTERIAL - ROLLING - UNDIVIDED
	Fr: 0.08 MI. N. OF WATER STREET To: 0.38 MI. N. OF WATER STREET		Fr: 0.08 MI. W. OF INT. OF 9TH STREET (ROUTE 20) To: INT. OF 9TH STREET (ROUTE 20)
ADT (2017)	15,000		9,500
ADT (2041)	15,700		10,000
DHV (2041)	1,270		780
D (%) (Design Hour)	57%		65%
T (%) (Design Hour)	2.00%		3%
V (MPH)	25 MPH MIN*		25 MPH MIN *
DESIGN CRITERIA	GS-5		GS-5
DESIGN VEHICLE	WB-67		WB-67

* SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL AND VERTICAL CURVE DESIGN SPEED

CITY OF CHARLOTTESVILLE
ROUTE 20 (9TH STREET/HIGH STREET)
FROM: 0.08 MI. N. OF WATER STREET
TO: 0.38 MI. N. OF WATER STREET

STATE LINE
COUNTY LINE
CITY/TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
WATER LINE
SANITARY SEWER LINE
GAS LINE
ELECTRIC UNDERGROUND CABLE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
POWER POLES
TELEPHONE OR TELEGRAPH POLES
TELEPHONE OR TELEGRAPH LINES
HEDGE
TREES
HEAVY WOODS
GROUND ELEVATION
GRADE ELEVATION

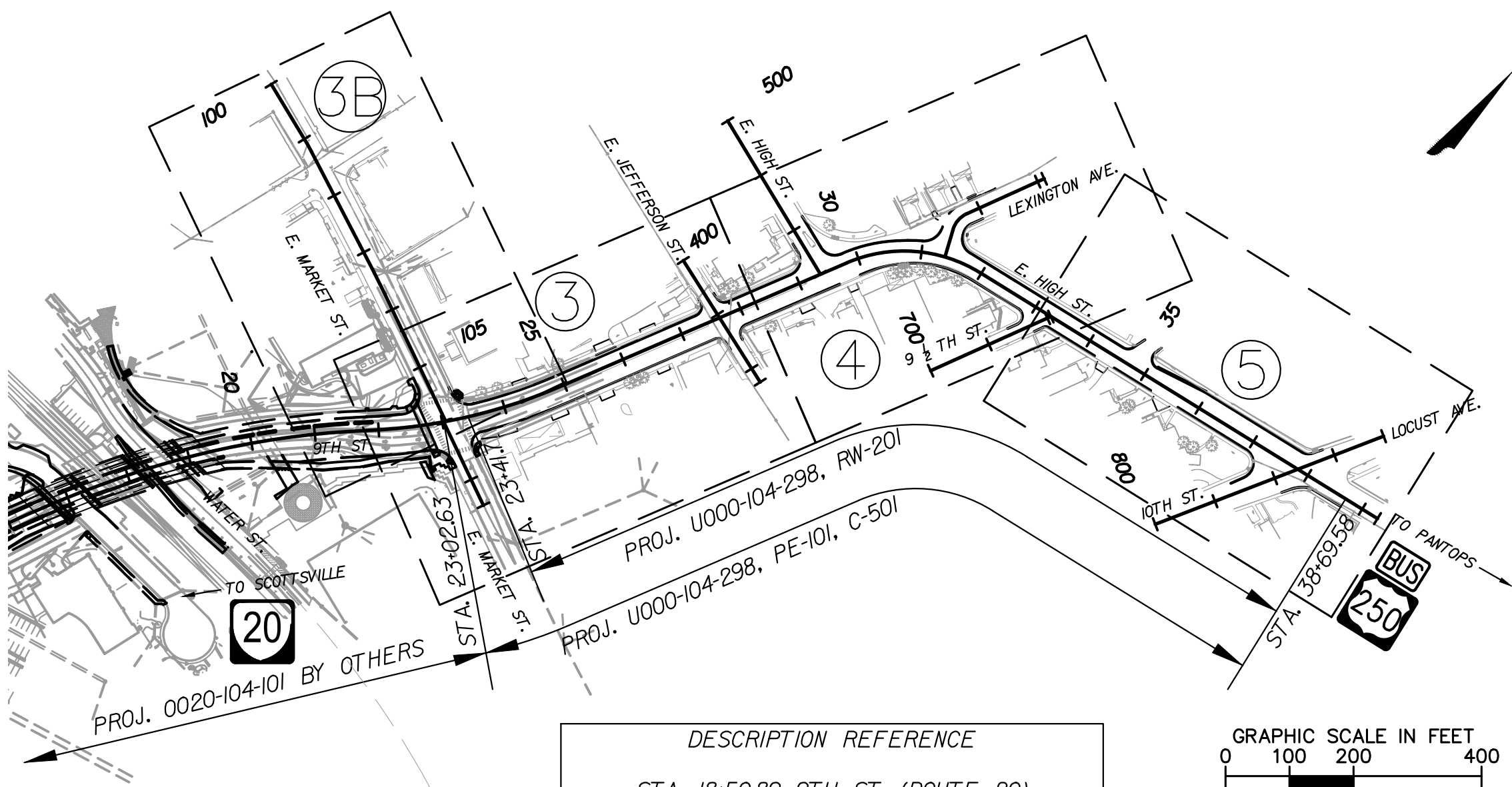
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, CITY OF CHARLOTTESVILLE DESIGN MANUAL, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11ULS, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE OFFICE OF THE CITY OF CHARLOTTESVILLE NEIGHBORHOOD DEVELOPMENT SERVICES DEPARTMENT. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.



DESCRIPTION REFERENCE

STA. 18+50.89 9TH ST. (ROUTE 20)
INTERSECTION WITH WATER ST.

Population 46,912 (2016 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES		LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES	FEET	MILES			
U000-104-298	PE-101	NHPP-5104(XXX)	PENG	109480			1566.95	0.297	1566.95	0.297		PRELIM. ENG	Fr: 0.08 MI. N. OF WATER STREET To: 0.38 MI. N. OF WATER STREET
	RW-201	NHPP-5104(XXX)	ROWA	109480			1527.87	0.289	1527.87	0.289		R.O.W	Fr: 0.09 MI. N. OF WATER STREET To: 0.38 MI. N. OF WATER STREET
	C-101	NHPP-5104(XXX)	1000	109480			1566.95	0.297	1566.95	0.297		CONSTRUCTION	Fr: 0.08 MI. N. OF WATER STREET To: 0.38 MI. N. OF WATER STREET

Project Lengths are based on 9TH STREET (ROUTE 20) CONSTR. @

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
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DESIGN IS FINALIZED

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

TIER 1 PROJECT	
LOCALLY ADMINISTERED PROJECTS	
CITY OF CHARLOTTESVILLE	
NAME OF LOCALITY	
(SIGNATURE)	
MIKE MURPHY	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	CITY MANAGER
(SIGNATURE)	
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICIAL (TYPED)	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	CITY MANAGER

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PROJECT
U000-104-298
SHEET NO.
1

PROJECT MANAGER TIM MOTSCH (434) 970-3395
SURVEYED BY, DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE ACCUMARK, 03/01/2018

INDEX OF SHEETS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	1A

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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LOCATION MAP



SCALE
0 1000' 2000'

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SHEET NO.	DESCRIPTION	STATIONS
I	TITLE SHEET	
1A	LOCATION MAP/INDEX OF SHEETS	
1B	RIGHT-OF-WAY DATA SHEET	
*1C	REVISION DATA SHEET	
1D	SURVEY ALIGNMENT DATA	
1E	EXISTING STORM & SANITARY SEWER DATA	
1F	CONSTRUCTION ALIGNMENT DATA SHEET	
*1G	UNDERGROUND UTILITIES TEST HOLE INFORMATION SHEET	
1H(1)	TRAFFIC MANAGEMENT PLAN AND SEQUENCE OF CONSTRUCTION	
1H(2) THRU 1H(X)	MAINTENANCE OF TRAFFIC PLANS	
1J	WATER QUALITY AND QUANTITY SHEET	
*1K	PARCEL DEMOLITION AND CLEARING SUMMARY	
*2	GENERAL NOTES SHEET	
2A THRU 2C	TYPICAL SECTIONS	
*2D	BMP DETAIL SHEET	
*2I	NOT USED	
*2X THRU 2X	SWP3 SHEETS	
*2X THRU 2X	DRAINAGE SUMMARY	
*2X	ROADSIDE DEVELOPMENT & SUMMARY	
*2X	PAVEMENT SUMMARY	
*2X	GRADING DIAGRAM AND SUMMARY	
*2X	INCIDENTAL SUMMARY	
*2X THRU 2X	DETAIL SHEETS	
3	ROADWAY PLAN	9TH ST. - STA. 23+02.63 TO STA. 28+25.00
3A	ROADWAY PROFILE	9TH ST. - STA. 23+02.63 TO STA. 28+25.00
3B	ROADWAY PLAN	MARKET ST. - 100+00.00 TO STA. 105+25.00
3C	E&S CONTROL PLANS - PHASE I	9TH ST. - STA. 23+02.63 TO STA. 28+25.00
3D	E&S CONTROL PLANS - PHASE I	MARKET ST. - 100+00.00 TO STA. 105+25.00
3E	E&S CONTROL PLANS - PHASE II	9TH ST. - STA. 23+02.63 TO STA. 28+25.00
3F	E&S CONTROL PLANS - PHASE II	MARKET ST. - 100+00.00 TO STA. 105+25.00
3G	ENTRANCE PROFILES	
4	ROADWAY PLAN	9TH ST. - STA. 28+25.00 TO STA. 33+50.00
4A	ROADWAY PROFILE	9TH ST. - STA. 28+25.00 TO STA. 33+50.00
4B	E&S CONTROL PLANS - PHASE I	9TH ST. - STA. 28+25.00 TO STA. 33+50.00
4C	E&S CONTROL PLANS - PHASE II	9TH ST. - STA. 28+25.00 TO STA. 33+50.00
4D	ENTRANCE PROFILES	
5	ROADWAY PLAN	9TH ST. - STA. 33+50.00 TO STA. 39+28+07
5A	ROADWAY PROFILE	9TH ST. - STA. 33+50.00 TO STA. 37+75.00
5B	E&S CONTROL PLANS - PHASE I	9TH ST. - STA. 33+50.00 TO STA. 39+28+07
5C	E&S CONTROL PLANS - PHASE II	9TH ST. - STA. 33+50.00 TO STA. 39+28+07
5D	ENTRANCE PROFILES	
*6(1) THRU 6(X)	DRAINAGE DESCRIPTIONS	
*6(X) THRU 6(X)	STORM SEWER PROFILES	
*7(1) THRU 7(X)	SIGNING PLANS	
*8(1) THRU 8(X)	LIGHTING PLANS	
9(1) THRU 9(4)	SIGNAL PLANS	
*10(1) THRU 10(X)	PAVEMENT MARKING AND MARKER PLANS	
11(3) THRU 11(5)	DUCT BANK PLANS	
12(1) THRU 12(5)	LANDSCAPE PLANS	
*13(X) THRU 13(X)	UTILITY PLANS	

TOTAL CROSS SECTION SHEETS: 23
(SEE CROSS SECTION SHEET I FOR INDEX OF SHEETS)

*INDICATES SHEET IS NOT INCLUDED IN THIS SUBMITTAL

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
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DESIGN IS FINALIZED

PROJECT	SHEET NO.
U000-104-298	1A

PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

PRELIMINARY
RIGHT OF WAY DATA SHEET

ROUTE: 20 (9TH ST)	PROJECT:U000-104-298
COUNTY/CITY: CHARLOTTESVILLE	PPMS NO.
COMPILED BY: KIMLEY-HORN & ASSOCIATES, INC.	DATE: 3/15/2019
REVISED BY:	DATE:
REVISED BY:	DATE:

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA	20	U000-104-298 RW-201,	1B

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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PARCEL NO.	LANDOWNER	SHEET NO.	AREA										
			TOTAL PER CITY GIS		FEE TAKING	FEE REMAINDER	EASEMENTS						
							PERMANENT EASEMENT	VDOT UTILITY EASEMENT	CENTURY LINK ONLY EASEMENT	DOMINION EASEMENT	WATERLINE EASEMENT	TEMPORARY CONSTR. EASEMENT	PROFFERS
			SQ. FEET	ACRES	SQUARE FEET	ACRES (APPROX.)	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	YES / NO
001	CITY OF CHARLOTTESVILLE		3, 3B	0.05		0.05 +/-						2019	NO
002	NOT USED												
003	B S INVESTORS		3	0.046		0.046 +/-				441			NO
004	GEWINN INVESTORS		3	0.591		0.591 +/-				382			NO
005	UNIVERSITY OF VIRGINIA COMMUNITY CREDIT UNION		3	0.428	220	0.423 +/-						477	NO
006	EAST JEFFERSON STREET, LC		3	0.077		0.077 +/-				155		544	NO
007	VICTORIA FENWICK TRUSTEE VALENTINE LANE TRUST		3	0.208		0.2080 +/-						830	NO
008	NOT USED												
009	PIEDMONT COURT APPOINTED SPECIAL ADVOCATES, INC.		4	0.200	292	0.19 +/-						367	NO
010	EIGHT TWENTY, LLC		4	0.310	23	0.31 +/-				486		393	NO
011	TARLETON OAK, LLC		4	0.424		0.424 +/-						660	NO
012	J2B LLC.		4	0.150		0.15 +/-						874	NO
013	CVILLE OPERATIONS HUB, LLC		4, 5	4.500	1057	4.48 +/-						8880	NO
014	HIGH 908 LLC		4	0.094		0.094 +/-						459	NO
015	ALBERT L. & JEANNE HUBER		4, 5	0.246	16	0.25 +/-						507	NO
016	NINE TWELVE LAND COMPANY, LLC.		5	0.218		0.218 +/-						348	NO
017	NOT USED												
018	MARTHA JEFFERSON HOSPITAL		5	0.445		0.45 +/-						627	NO
019	MARTHA JEFFERSON HOSPITAL		5	0.473	410	0.464 +/-				429		935	NO
020	TARLETON OAK, LLC		4	0.172	27	0.171 +/-						440	NO
021	TARLETON OAK, LLC		4	0.145	28	0.14 +/-						459	NO
022	NOT USED												
023	CITY OF CHARLOTTESVILLE, VIRGINIA & COUNTY OF ALBEMARLE, VIRGINIA		3B	0.417		0.417 +/-						1456	NO
024	JEFFERSON NATIONAL BANK & TRUST COMPANY		5	0.422	55	0.42 +/-						122	NO
025	CHILDREN, YOUTH & FAMILY SERVICES, INC.		5	0.115	36	0.114 +/-						135	NO
026	MWPC PROPERTIES, LLC & IRR PROPERTIES LC		5	0.891		0.89 +/-						65	NO
027	TARLETON OAK, LLC		4	0.142		0.142 +/-							NO

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PRELIMINARY EASEMENTS FOR UTILITY
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PROJECT	SHEET NO.
U000-104-298	1B

October 25, 2017 5:20 PM Brian, Ajaya
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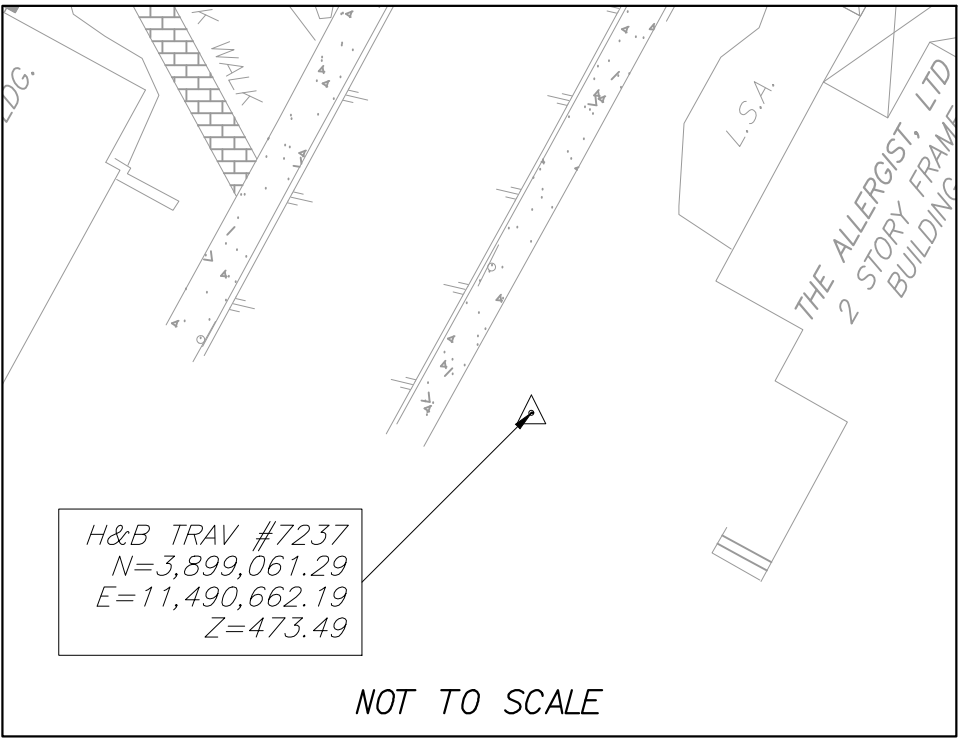
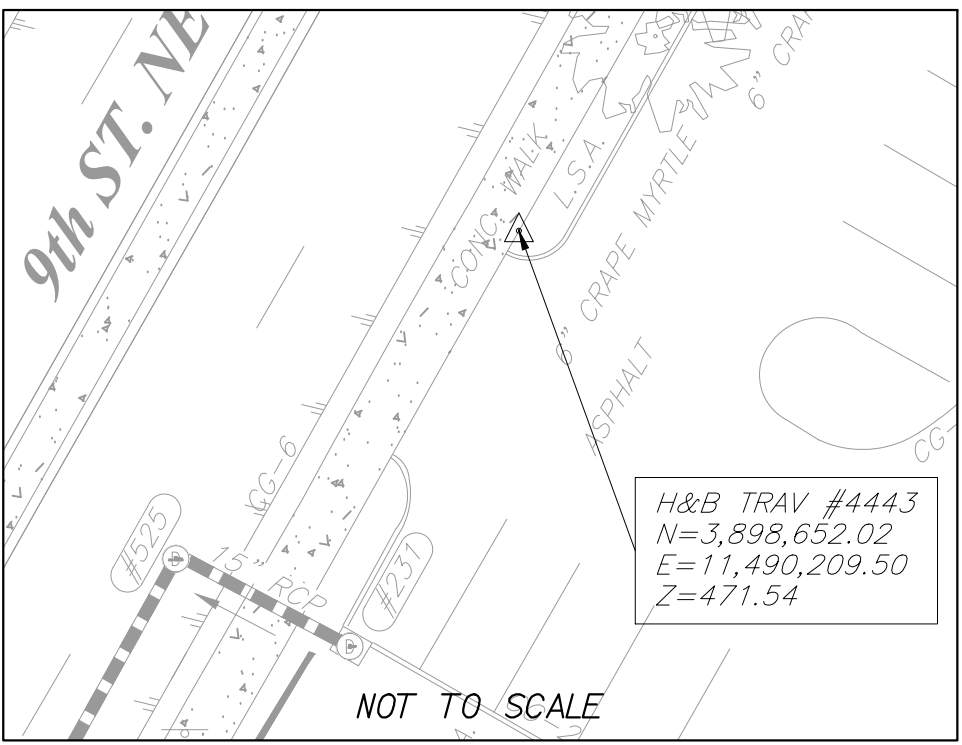
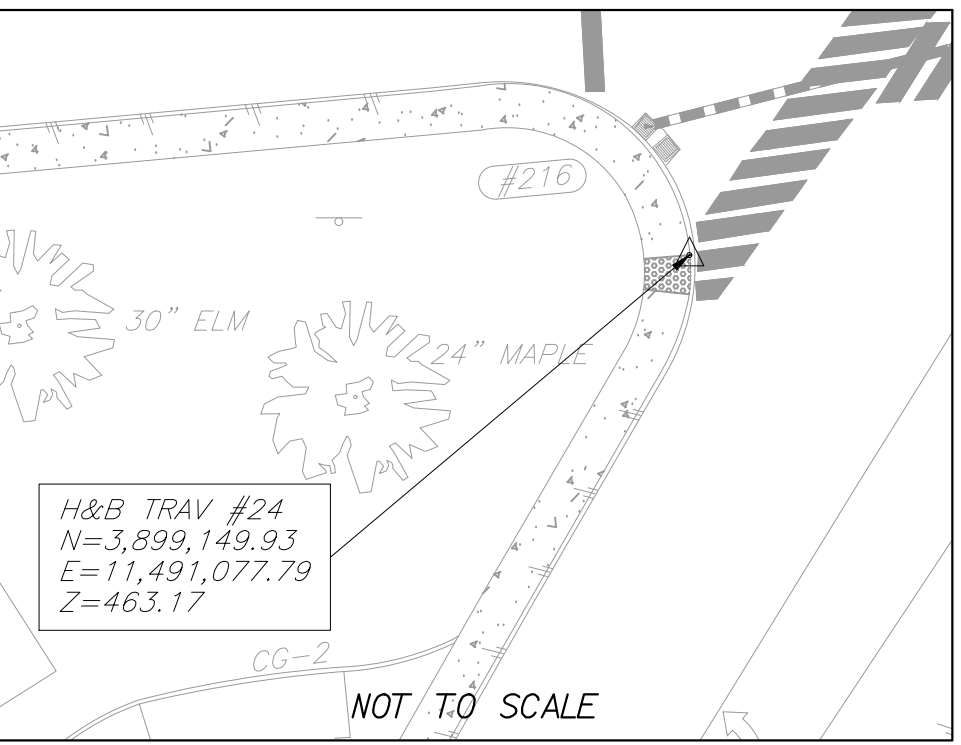
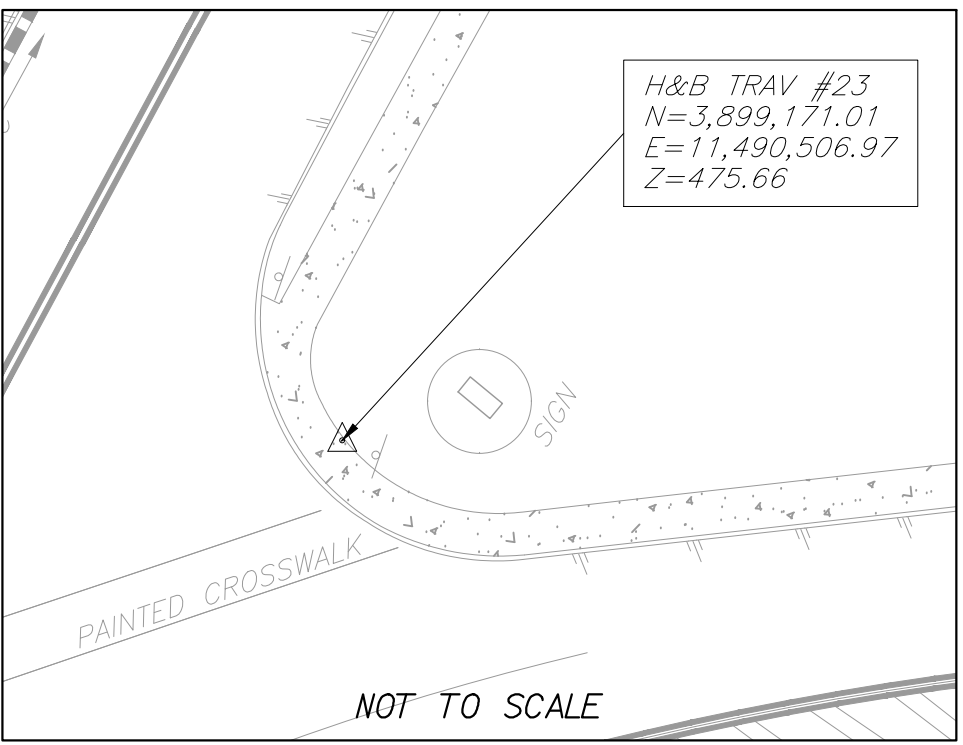
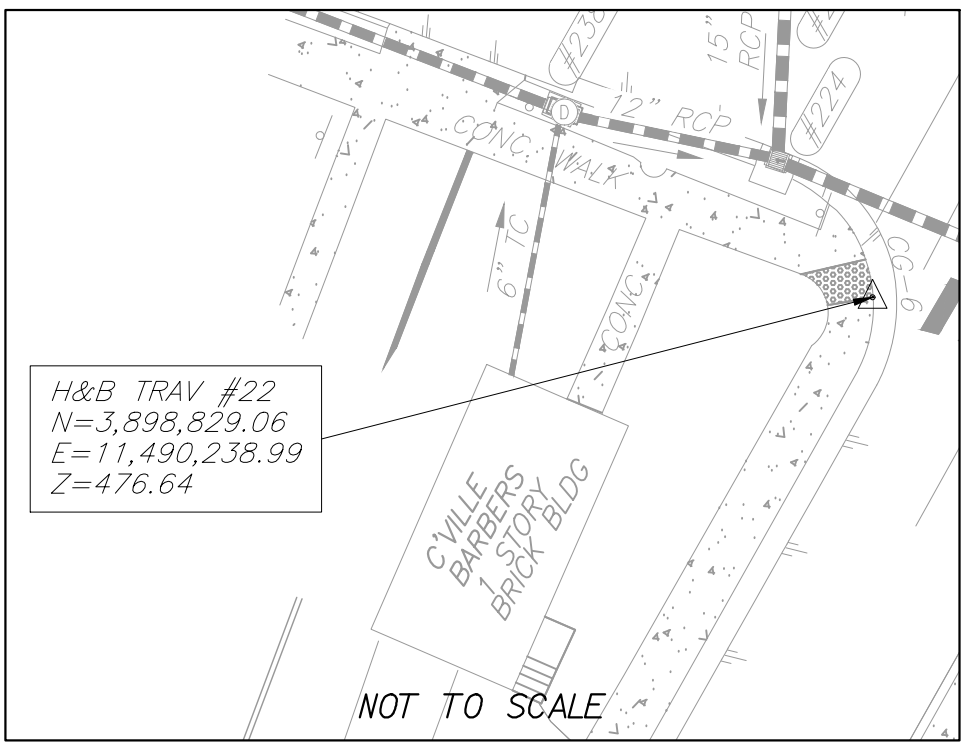
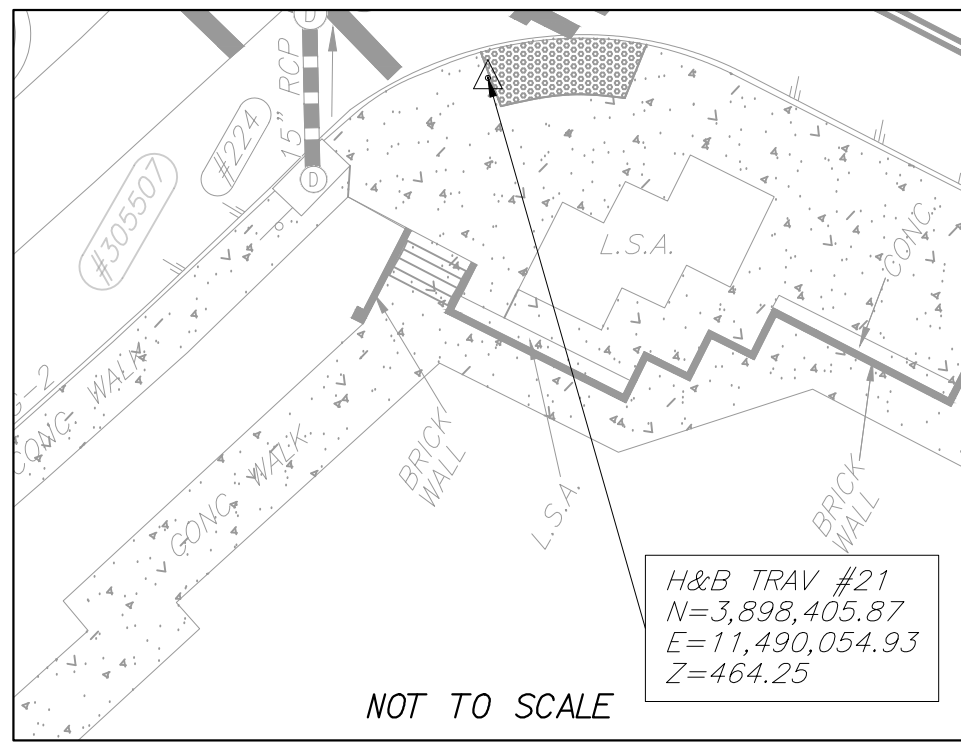
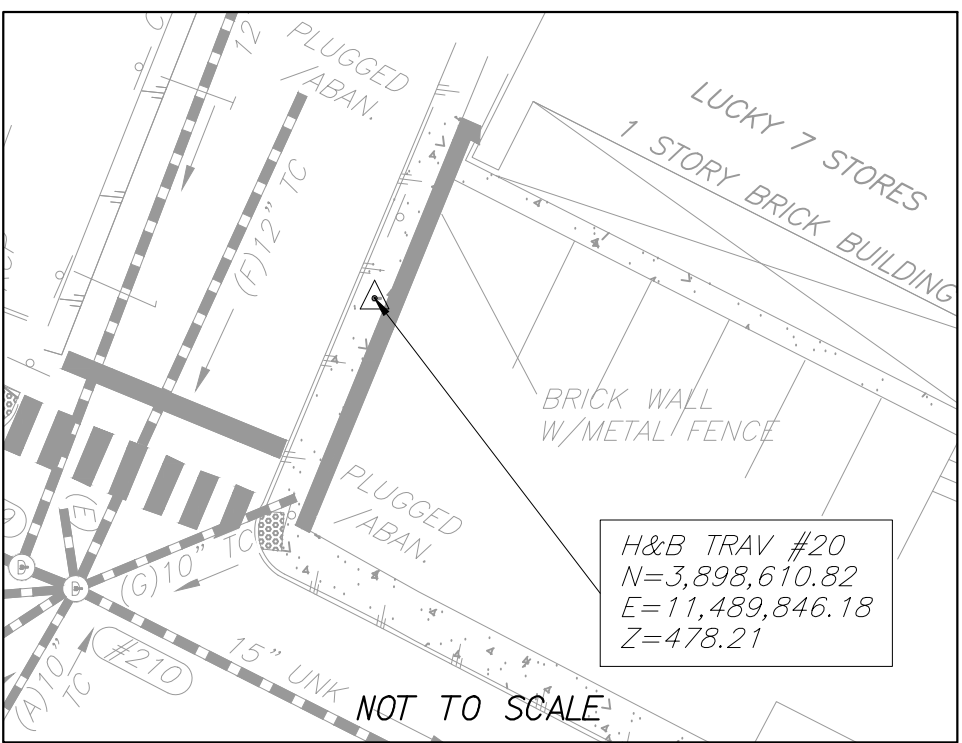
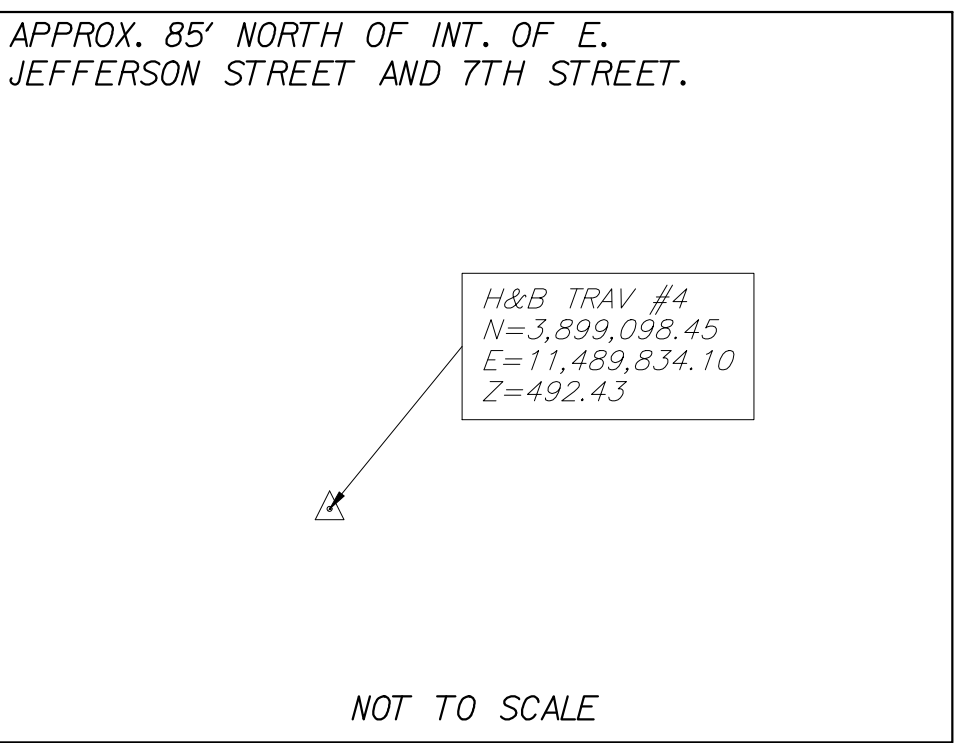
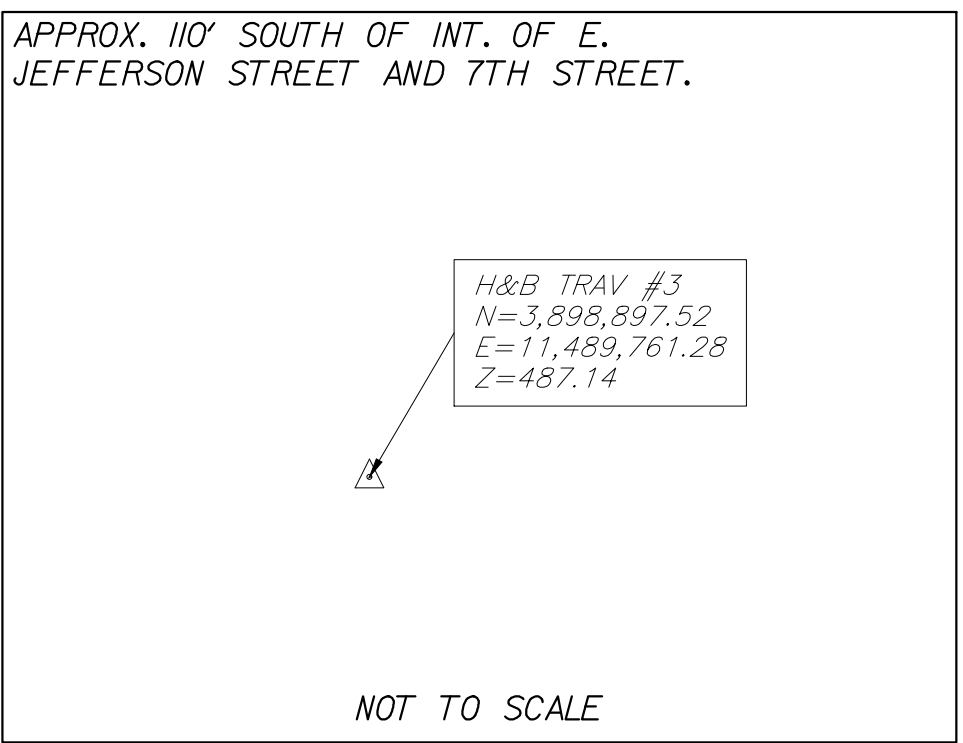
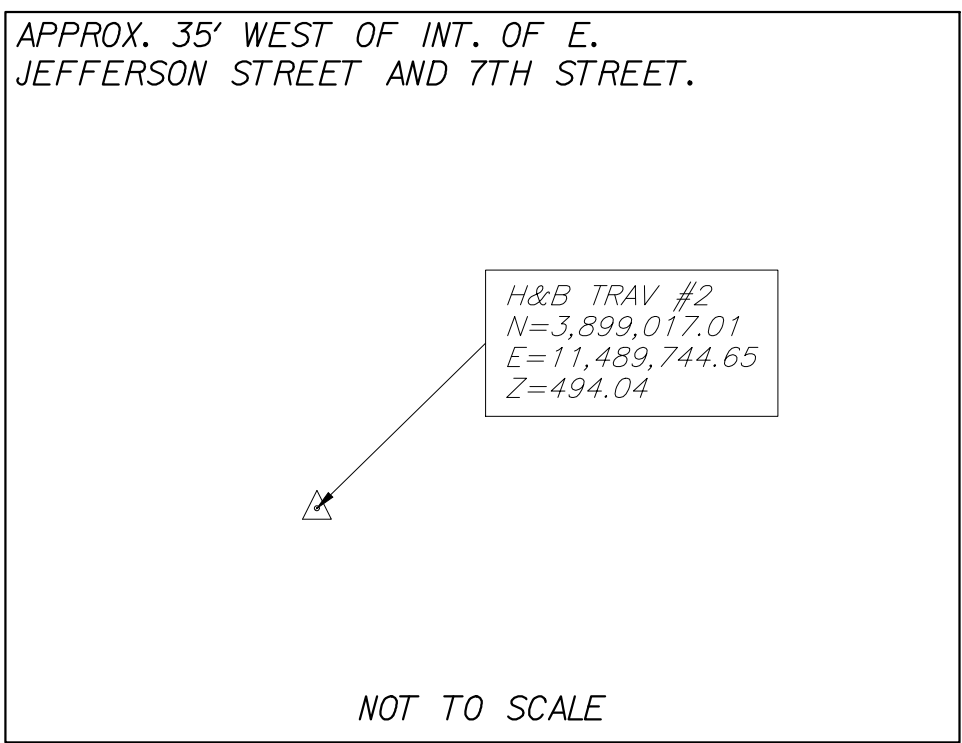
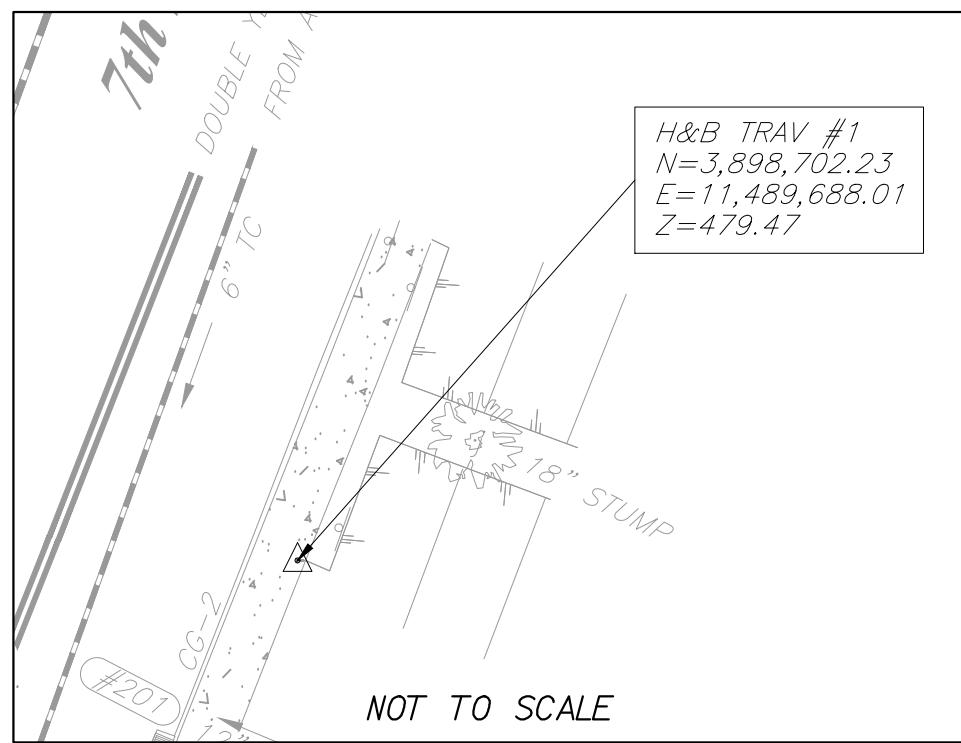
PROJECT MANAGER: TIM MOTSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

SURVEY ALIGNMENT DATA

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	ID

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H&B CONTROL POINT REFERENCES				
Point	Northing	Easting	Elevation	Description
1	3898702.23	11489688.01	479.47	CP- TRAV
2	3899017.01	11489744.65	494.04	CP- TRAV
3	3898897.52	11489761.28	487.14	CP- TRAV
4	3899098.45	11489834.10	492.43	CP- TRAV
20	3898610.82	11489846.18	487.21	CP- TRAV
21	3898405.87	11490054.93	464.25	CP- TRAV
22	3898829.06	11490238.99	476.64	CP- TRAV
23	3899171.01	11490506.97	475.66	CP- TRAV
24	3899149.93	11491077.79	463.17	CP- TRAV
4443	3898652.02	11490209.50	471.54	CP- TRAV
7237	3899061.29	11490662.19	473.49	CP- TRAV



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U000-104-298		ID

October 25, 2017 5:20 PM: Brian, Alysa
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DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCU-MARK, 03/01/2018

EXISTING STORM & SANITARY SEWER DATA

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-I04-298 C-501	I/E

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

#111 STORM MH
RIM=465.46'
INV. IN = 462.32' (15" RCP FROM A.D.
POSSIBLY ABANDONED, FULL OF DIRT)
INV. OUT = 462.21' (15" RCP TO #212)

#200 STORM DI
RIM=478.99'
INV. OUT = 476.54' (12" RCP TO #201)

#201 GRATE
TOP=478.38'
INV. IN = 475.78' (12" RCP FROM #200)
INV. OUT = 475.42' (12" RCP TO #202)

#202 STORM MH (W/ RECTANGLE LID)
RIM=478.48'
INV. IN = 474.88' (12" RCP FROM #201)
INV. IN = 476.30' (4" TC FROM GROUND SEEPAGE PIPE)
INV. OUT = 474.80' (12" RCP TO #203)

#203 STORM MH
RIM=478.46'
(A) INV. IN = 473.11' (10" TC PLUGGED/ABANDONED)
(B) INV. IN = 473.15' (10" TC PLUGGED/ABANDONED)
INV. IN = 473.86' (6" TC FROM GROUND SEEPAGE PIPE)
INV. IN = 473.04' (12" RCP FROM #202)
INV. OUT = 472.57' (12" SLEEVED PIPE TO #209)

#242 STORM MH
RIM=480.05'
INV. IN = 475.23' (12" SLEEVED TC FROM A.D./OFFSITE)
INV. OUT = 475.20' (12" SLEEVED TC TO #513)

#204 GRATE
TOP=477.65'
INV. IN = 474.36' (8" TC FROM GROUND SEEPAGE PIPE)
INV. OUT = 473.33' (15" SLEEVED TC TO #510)

#205 GRATE
TOP=477.64'
INV. IN = 475.71' (8" TC FROM #206)
MATERIAL CHANGES FROM PVC @ #206

#206 STORM MH
RIM=483.00'
INV. IN = 482.00' (4" PVC FROM GROUND SEEPAGE PIPE)
INV. IN = 480.08' (8" DI FROM ROOF DRAIN)
INV. OUT = 479.85' (8" PVC TO #205)
MATERIAL CHANGES TO TC @ #205

#207 GRATE
TOP=476.45'
INV. IN = 473.57' (12" SLEEVED RCP FROM #208)
INV. OUT = 473.01' (12" RCP TO BLIND CONNECTION BETWEEN STR. #203 AND #209)

#208 GRATE
TOP=477.10'
INV. OUT = 473.72' (12" SLEEVED RCP TO #207)

#209 STORM MH
RIM=476.08'
INV. IN = 470.94' (12" RCP FROM #244)
INV. IN = 469.69' (12" TC FROM #203)
INV. OUT = 469.66' (12" SLEEVED TC TO #210)

#244 GRATE
TOP=487.07'
INV. IN = 473.48' (12" TC FROM BLDG /OFFSITE)
(B) INV. IN = 485.93' (6" PVC FROM ROOF DRAIN)
(C) INV. IN = 486.07' (6" PVC FROM ROOF DRAIN)
(D) INV. IN = 485.58' (6" PVC FROM ROOF DRAIN)
INV. OUT = 472.92' (12" SLEEVED RCP TO #209)

#210 STORM MH
RIM=475.79'
(A) INV. IN = 470.33' (10" TC PLUGGED/ABAN.)
(B) INV. IN = 470.59' (10" TC PLUGGED/ABAN.)
(C) INV. IN = 471.01' (10" TC PLUGGED/ABAN.)
(D) INV. IN = 469.33' (12" SLEEVED RCP FROM #209)
(E) INV. IN = 471.24' (10" TC PLUGGED/ABAN.)
(F) INV. IN = 470.78' (12" TC PLUGGED/ABAN.)
(G) INV. IN = 470.55' (10" TC PLUGGED/ABAN.)
INV. OUT = 469.49' (15" SLEEVED PIPE TO #212)
INVERT OUT IS HIGHER DUE TO INSTALLATION OF SLEEVE IN PIPE

#211 GRATE
TOP=464.49'
INV. OUT = 462.66' (12" RCP TO #212)

INV. OUT = 461.12' (15" RCP TO #523)
NOTE: #523 IS PAVED OVER

#214 GRATE
TOP=464.72'
INV. OUT = 462.88' (8" TC TO #213)
MATERIAL CHANGES TO 12" CMP @ #213

#215 DI
RIM=466.67'
INV. OUT = 462.49' (15" RCP TO #522)
NOTE: #522 IS BURIED UNDER SIDEWALK

#522 STORM MH
RIM=465.60'
INV. IN FROM #215
INV. OUT TO #225
THIS STRUCTURE IS PAVED OVER

#216 GRATE
TOP=462.95'
INV. IN = 461.55' (6 TC POSSIBLE ROOF DRAIN)
INV. OUT = 460.94' (12" SLEEVED CMP TO #247)

#245 STORM MH
RIM=454.51'
INV. IN = 451.74' (12" SLEEVED TC FROM #246)
INV. IN = 451.77' (10" CONC FROM A.D./OFFSITE)
INV. OUT = 451.71' (12" PVC TO A.D./OFFSITE)

#246 GRATE
TOP=458.24'
INV. IN = 456.16' (12" CPP FROM #247)
INV. OUT = 456.07' (12" SLEEVED TC TO #245)

#247 STORM MH
RIM=460.24'
INV. IN = 457.34' (12" SLEEVED CMP FROM #216)
INV. OUT = 457.34' (12" CPP TO #246)

#218 GRATE
TOP=476.02'
INV. IN = 473.25' (8" TC ROOF DRAIN FROM BLDG)
INV. OUT = 472.86' (12" TC TO #219)

#219 GRATE
TOP = 466.06'
INV. IN = 462.61' (12" TC FROM #218)
INV. OUT = 462.37' (15" CPP TO A.D./OFFSITE)

#220 DI
RIM=479.75'
INV. OUT = 475.65' (15" RCP TO #221)

#221 STORM MH
RIM=478.67'
INV. IN = 474.71' (15" RCP FROM #220)
INV. OUT = 474.60' (15" RCP TO #222)

#222 DI
RIM=477.60'
INV. IN = 473.41' (15" RCP FROM #221)
INV. OUT = 473.37' (15" RCP TO #223)

#240 GRATE
TOP=474.01'
INV. IN = 469.13' (12" SLEEVED TC FROM #223)
INV. OUT = 468.90' (12" TC TO A.D./OFFSITE)

#223 STORM MH
RIM=476.44'
INV. IN = 472.64' (15" RCP FROM #222)
INV. IN = 472.69' (15" RCP TO #224)
INV. IN = 472.98' (6" PVC ROOF DRAIN FROM BLDG)
INV. OUT = 472.44' (12" SLEEVED TC TO #240)

#224 GRATE
RIM=477.95'
INV. IN = 474.32' (12" RCP FROM #238)
INV. IN = 473.76' (15" RCP FROM #239)
INV. OUT = 473.58' (15" RCP TO #223)

#238 DI
RIM=480.37'
INV. IN = 476.21' (12" SLEEVED FROM #237)
INV. IN = 475.32' (6" TC ROOF DRAIN FROM BLDG.)
INV. OUT = 475.28' (12" RCP TO #224)

#239 GRATE
TOP=478.82'
INV. OUT = 473.95' (15" RCP TO #224)

#234 STORM MH
RIM=464.36'
INV. OUT = 462.12' (15" RCP TO #307609)

#307597 STORM MH
RIM=466.73'
INVERT IN = 455.88' (15" SLEEVED RCP FROM #225)
INVERT IN = 455.68' (15" RCP POSSIBLY ABANDONED)
INVERT OUT = 455.49' (15" RCP TO A.D.)

#226 STORM MH
RIM=464.72'
INV. IN = 460.64' (15" RCP FROM #525)
NOTE: #525 BURIED IS PAVED OVER
INV. OUT = 460.62' (15" RCP TO #227)

#227 DI
RIM=464.83'
INV. IN = 460.66' (15" RCP FROM #226)
INV. OUT = 459.13' (15" RCP TO #228)

#228 STORM MH
RIM=463.50'
INV. IN = 458.84' (15" RCP FROM #227)
INV. IN = 458.09' (15" TC FROM #30039)
INV. IN = 461.20' (6" TC POSSIBLE GROUND SEEPAGE PIPE)
INV. OUT = 458.16' (15" SLEEVED TC TO #230)

#230 GRATE
TOP=458.74'
INV. IN = 454.17' (15" SLEEVED TC FROM #228)
INV. OUT = 454.12' (15" TC TO A.D./OFFSITE)

#231 DI
RIM=470.47'
INV. OUT = 466.67' (15" RCP TO #525)
NOTE: STRUCTURE #525 IS PAVED OVER

#232 GRATE
TOP=469.80'
INV. IN = 466.27' (8" PVC POSSIBLE ROOF DRAIN)
INV. OUT = 466.25' (15" RCP TO #524)

#523 STORM MH
RIM = 464.74'
INV. IN FROM #213
INV. IN FROM #524
INV. OUT TO #30039
THIS STRUCTURE IS PAVED OVER

#524 STORM MH
RIM=468.52'
INV. IN FROM #232
INV. OUT TO #523
THIS STRUCTURE IS PAVED OVER

#525 STORM MH
RIM=469.61'
INV. IN FROM #231
INV. OUT TO #226
THIS STRUCTURE IS PAVED OVER

#503 GRATE
TOP=477.51'
INV. OUT = 473.09' (12" SLEEVED PIPE TO #510)

#504 GRATE
TOP=476.96'
INV. IN = 473.67' (12" CPP FROM #515)
INV. OUT = 473.37' (12" SLEEVED PIPE TO #510)

#509 STORM MH
RIM = 477.33'
INV. IN = 472.04' (12" SLEEVED PIPE FROM #513)
INV. OUT = 471.18' (12" SLEEVED TC TO #510)

#510 STORM MH
RIM=477.37'
INV. IN = 470.91' (15" SLEEVED TC FROM #204)
INV. IN = 470.91' (12" SLEEVED PIPE FROM #503)
INV. IN = 470.92' (12" SLEEVED TC FROM #509)
INV. IN = 472.63' (12" SLEEVED PIPE FROM #504)
INV. OUT = 470.90' (18" SLEEVED PIPE TO #538)

#538 GRATE
TOP=467.14'
INV. IN = 463.71' (8" PVC FROM A.D./OFFSITE)
INV. IN = 457.59 (18" SLEEVED RCP FROM #510)
INV. IN = 453.58' (15" RCP FROM A.D./OFFSITE)
INV. OUT = 453.53' (18" RCP TO A.D./OFFSITE)

#212 STORM MH
RIM=464.75'
INV. IN = 462.33' (12" RCP FROM #211)
INV. IN = 462.19' (15" SLEEVED PIPE FROM #210)
INV. IN = 462.16' (15" RCP FROM #111)
INV. OUT = 462.09' (15" SLEEVED RCP TO #213)

#30039 STORM MH
RIM=464.82'
INV. IN = 459.72' (18" RCP FROM #523)
INV. OUT = 459.60' (15" TC TO #228)

#213 DI
RIM=464.86'
INV. IN = 462.06' (12" CMP FROM #214)
MATERIAL CHANGES TO 8" TC @ #214
INV. IN = 461.23' (15" SLEEVED RCP FROM #212)

#100 SANITARY MH
RIM=459.90'
INV. IN = 454.49' (8" TC FROM A.D.)
INV. OUT = 454.21' (8" TC TO #101)
NOTE: POSSIBLE PAVED OVER MH AT INTERSECTION OF #546 & #102.

#101 SANITARY MH
RIM=453.02'
INV. IN = 448.13' (6" TC LATERAL)
INV. IN = 447.47' (8" TC FROM #100)
INV. IN = 448.30' (6" TC LATERAL)
INV. OUT = 447.47' (8" TC TO A.D./OFFSITE)

#102 SANITARY MH
RIM=468.44'
INV. IN = 462.97' (8" TC FROM #103)
INV. IN = 464.64' (4" TC LATERAL)
INV. OUT = 462.66' (8" TC TO A.D.)
NOTE: POSSIBLE PAVED OVER MH AT INTERSECTION OF #100 & #102

#103 SANITARY MH
RIM=475.05'
TOP OF 12" VERTICAL PIPE = 470.59'
INV. OUT = 471.54' (6" TC TO #102)

#104 SANITARY MH
RIM=478.07'
INV. IN = 475.13' (6" PVC PLUGGED)
INV. IN = 475.14' (4" PVC)
INV. OUT = 475.03' (6" PVC TO #105)

#105 SANITARY MH
RIM=476.74'
INV. IN = 471.69' (8" TC FROM #104)
INV. IN = 471.98' (8" SLEEVED PIPE FROM #106)
INV. OUT = 471.37' (8" SLEEVED PIPE TO #107)

#106 SANITARY MH
RIM=479.80'
INV. IN = 476.74' (6" TC LATERAL)
INV. IN = 475.03' (8" SLEEVED TO FROM #236)
INV. IN = 473.60' (4" TC LATERAL)
INV. IN = 475.76' (4" TC LATERAL)
INV. OUT = 473.11' (8" SLEEVED TC TO #105)

#236 SANITARY MH
RIM=481.93'
INV. IN = 476.64' (8" SLEEVED TC FROM A.D./OFFSITE)
INV. IN = 477.22' (6" TC FROM A.D./OFFSITE)
INV. OUT = 476.63' (8" SLEEVED TC TO #106)

#107 SANITARY MH
RIM=474.22'
INV. IN = 468.34' (8" SLEEVED FROM #105)
INV. IN = 468.34' (8" SLEEVED FROM A.D./OFFSET)
INV. OUT = 468.29' (8" SLEEVED TO A.D./OFFSET)

#108 SANITARY MH
RIM=474.22'
INV. IN = 468.51' (6" TC LATERAL)
INV. OUT = 468.34' (8" UNK. TYPE SLEEVED PIPE TO #109)

#109 SANITARY MH
RIM=463.88'
INV. IN = 455.87' (8" TC FROM #112)
INV. IN = 456.00' (8" TC FROM #108)
INV. OUT = 455.86' (8" TC TO #110)

#237 GRATE
TOP=490.38'
INV. IN = 485.66' (12" TC FROM A.D./OFFSITE)
INV. OUT = 485.57' (12" TC TO #238)

#225 STORM MH
RIM=464.83'
INV. IN = 459.89' (15" RCP FROM #522)
NOTE: #522 BURIED UNDER SIDEWALK
INV. IN = 460.00' (15" SLEEVED RCP FROM #307609)
INV. OUT = 460.14' (15" SLEEVED RCP TO #307597)
INVERT OUT IS HIGHER DUE TO INSTALLATION OF SLEEVE IN PIPE

#307609 STORM MH
RIM=464.29'
INVERT IN = 461.82' (15" RCP FROM #234)
INVERT OUT = 460.88' (15" SLEEVED RCP TO #225)

#110 SANITARY MH
RIM=458.95'
INV. IN = 453.18' (8" SLEEVED PIPE FROM #109)
INV. IN = 454.51' (8" PVC FROM A.D. /OFFSITE)
INV. OUT = 453.18' (8" SLEEVED PIPE TO A.D. /OFFSITE)

#112 SANITARY MH
RIM=470.39'
INV. IN = 462.44' (8" SLEEVED TC FROM #113)
INV. OUT = 461.37' (8" SLEEVED TC TO #109)

#113 SANITARY MH
RIM=475.78'
INV. IN = 471.14' (8" TC FROM #115)
INV. IN = 471.34' (8" SLEEVED TC FROM #116)
INV. IN = 471.15' (8" SLEEVED PIPE FROM #117)
INV. OUT = 471.08' (8" SLEEVED PIPE TO #112)

#115 SANITARY MH
RIM=478.84'
(A) TOP OF PIPE = 473.95' (INVERTED 4" TC)
(B) ELBOW = 471.64' (INVERTED 4" TC)
INV. OUT = 476.47' (4" TC TO #113)

#116 SANITARY MH
RIM=476.05'
INV. IN = 471.89' (8" TC FROM #521)
INV. OUT = 471.88' (8" SLEEVED TC TO #113)

#117 SANITARY MH
RIM=488.99'
INV. IN = 483.99' (8" PVC FROM A.D./OFFSITE)
INV. IN = 484.88' (4" PVC LATERAL)
INV. OUT = 483.93' (8" PVC TO #113)

#118 SANITARY MH
RIM=478.11'
INV. IN = 471.30' (8" SLEEVED TC FROM #241)
INV. IN = 468.74' (8" SLEEVED PIPE FROM #514)
INV. OUT = 468.65' (8" SLEEVED PIPE TO #243)

#241 SANITARY MH
RIM=482.99'
INV. IN = 477.83' (8" SLEEVED TC FROM FROM A.D./OFFSITE)
INV. IN = 477.87' (6" TC LATERAL)
INV. OUT = 477.75' (8" SLEEVED TC MATERIAL #118)

#243 SANITARY MH
RIM=468.81'
INV. IN = 462.63' (8" TC FROM #118)
INV. IN = 463.12' (4" TC LATERAL)
INV. OUT = 462.62' (8" TC TO A.D. /OFFSITE)

#521 SANITARY MH
RIM=487.36'
INV. IN = 473.21' (6" UNKNOWN LATERAL)
INV. OUT = 473.15' (8" TC TO #116)

#546 SANITARY MH
RIM=465.08'
INV. IN = 460.74' (8" TC FROM A.D./OFFSITE)
INV. OUT = 460.72' (8" TC TO A.D.)
NOTE: POSSIBLE PAVED OVER MH AT INTERSECTION OF #100 & #102

#514 SANITARY MH
RIM=481.89'
INV. IN = 473.59 (8" UNKNOWN FROM A.D./OFFSITE)
INV. IN = 475.53' (8" SLEEVED PVC FROM A.D./OFFSITE)
INV. OUT = 473.59' (8" UNKNOWN TO #118)

PROJECT MANAGER: JIM MOTTSCHE (434) 970-3395
SURVEYED BY: DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE: ACCUMARK, 03/01/2018

Alignment: LEXINGTON AVE
Description:

Tangent Data		
Description Station	Northing	Eastng
PC: 600+00.0040	3899126.23	11490497.82
PT: 600+44.5600	3899167.959	11490482.2
Tangent Data		
Parameter Value	Parameter	Value
Length: 44.556'	Course:	N 20° 31' 20" W

Curve Point Data: LEX_J		
Description Station	Northing	Eastng
PC: 600+44.5600	3899167.959	11490482.2
RP: 3899181.982	3899181.982	11490519.66
PT: 600+78.8279	3899201.107	11490484.53
Circular Curve Data		
Parameter Value	Parameter	Value
Delta: 49° 05' 07"	Type:	RIGHT
Radius: 40.00'		
Length: 34.2679'	Tangent:	18.265
Mid-Ord: 3.6139'	External:	3.9728
Chord: 33.2296'	Course:	N 04° 01' 14" E

Tangent Data		
Description Station	Northing	Eastng
PC: 600+78.8279	3899201.107	11490484.53
PT: 602+11.818	3899317.352	11490547.81
Tangent Data		
Parameter Value	Parameter	Value
Length: 132.3538'	Course:	N 28° 33' 47" E

Alignment: EAST HIGH STREET
Description:

Tangent Data		
Description Station	Northing	Eastng
PC: 500+00.0000	3899091.491	11490098.65
PT: 502+80.2090	3898987.52	11490358.85
Tangent Data		
Parameter Value	Parameter	Value
Length: 280.209'	Course:	S 68° 13' 11" E

Curve Point Data: LEX_J		
Description Station	Northing	Eastng
PC: 500+00.0000	3899091.491	11490098.65
RP: 3899091.491	3899091.491	11490098.65
PT: 502+80.2090	3898987.52	11490358.85
Circular Curve Data		
Parameter Value	Parameter	Value
Delta: 49° 05' 07"	Type:	RIGHT
Radius: 40.00'		
Length: 34.2679'	Tangent:	18.265
Mid-Ord: 3.6139'	External:	3.9728
Chord: 33.2296'	Course:	N 04° 01' 14" E

Tangent Data		
Description Station	Northing	Eastng
PC: 500+00.0000	3899091.491	11490098.65
PT: 502+80.2090	3898987.52	11490358.85
Tangent Data		
Parameter Value	Parameter	Value
Length: 132.3538'	Course:	N 28° 33' 47" E

CONSTRUCTION ALIGNMENT DATA SHEET

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	IF

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Alignment: 10TH STREET
Description:

Tangent Data		
Description Station	Northing	Eastng
PC: 800+00.0000	3898991.39	11491011.82
PT: 803+82.3248	3899315.974	11491213.45
Tangent Data		
Parameter Value	Parameter	Value
Length: 382.3248'	Course:	N 31° 49' 42" E

Alignment: 9TH STREET
Description:

Curve Point Data: 9TH_4		
Description Station	Northing	Eastng
PCC: 21+82.5130	3898365.886	11489941.27
RP: 3899022.178	3899022.178	11489401.10
PT: 24+93.4566	3898602.535	11490140.29
Circular Curve Data		
Parameter Value	Parameter	Value
Delta: 20° 57' 35"	Type:	LEFT
Radius: 850.00'		
Length: 310.9436'	Tangent:	157.2291'
Mid-Ord: 14.1789'	External:	14.4195'
Chord: 309.2127'	Course:	N 40° 03' 49" E

Tangent Data		
Description Station	Northing	Eastng
PC: 24+93.4566	3898602.535	11490140.29
PT: 29+81.0827	3899026.592	11490381.03
Tangent Data		
Parameter Value	Parameter	Value
Length: 487.6261'	Course:	N 29° 35' 02" E

Curve Point Data: 9TH_5		
Description Station	Northing	Eastng
PC: 29+81.0827	3899026.592	11490381.03
RP: 3898915.51	3898915.51	11490576.7
PT: 31+97.4097	3899139.537	11490555.8
Circular Curve Data		
Parameter Value	Parameter	Value
Delta: 55° 05' 14"	Type:	RIGHT
Radius: 225.00'		
Length: 216.3271'	Tangent:	117.3454'
Mid-Ord: 25.5017'	External:	28.7616'
Chord: 208.0907'	Course:	N 57° 07' 39" E

Tangent Data		
Description Station	Northing	Eastng
PC: 31+97.4097	3899139.537	11490555.80
PT: 39+28.070	3899207.396	11491283.31
Tangent Data		
Parameter Value	Parameter	Value
Length: 730.661'	Course:	N 84° 40' 16" E

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

SCALE
0 80' 160'

PROJECT
U000-104-298

SHEET NO.
IF

October 25, 2017 5:20 PM
This document, together with the concept and design presented herein, is an instrument of service intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

K:\VIRG_ROW\113003004_E_High_Street\SCAPE\CADD\SheetSet\CONSTRUCTION ALIGNMENT DATA.dwg, Layout: CONSTRUCTION ALIGNMENT DATA

PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

EAST HIGH STREET STREETScape
INTRODUCTION

THE PROPOSED IMPROVEMENTS TOTAL APPROXIMATELY 1,567 LINEAR FEET OF STREETScape IMPROVEMENTS ALONG 9TH STREET/ EAST HIGH STREET AND EAST MARKET STREET IN DOWNTOWN CHARLOTTESVILLE. THE STREETScape IMPROVEMENTS INCLUDE THE DESIGN OF SIDEWALK, CURB AND GUTTER, STORM SEWER, LIGHTING, LANDSCAPING, TRAFFIC SIGNALS, PAVEMENT MARKINGS, SIGNS, AND MAINTENANCE OF TRAFFIC. THE PROJECT LIMITS ARE ILLUSTRATED IN THE ATTACHED SURVEY AREA MAP, APPENDIX A, AND THEY CAN GENERALLY BE IDENTIFIED AS ALONG 9TH STREET FROM THE INTERSECTION WITH EAST MARKET STREET TO THE INTERSECTION WITH 10TH AVENUE/LOCUST STREET.

TEMPORARY TRAFFIC CONTROL PLAN

GENERAL NOTES

1. THE PROPOSED IMPROVEMENTS FOLLOW UNDER THE TMP TYPE B PROJECT.
2. THE PROJECT LOCATION IS FROM 0.50 MILES SOUTH OF ROUTE 250 BUSINESS TO 0.72 MILES SOUTH OF ROUTE 250 (LONG STREET) ALONG 9TH STREET/ E. HIGH STREET IN THE CITY OF CHARLOTTESVILLE.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC CONTROL PERSONNEL TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN CITY MAINTAINED ROW. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES AND OBJECTIVES OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, 2009 MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, 2011 VA SUPPLEMENT TO THE MUTCD, AND ALL CITY PERMITS. CONTRACTOR SHALL HAVE BOTH INTERMEDIATE AND A BASIC WORK ZONE TRAFFIC CONTROL CERTIFIED EMPLOYEE ON SITE AT ALL TIMES DURING LANE CLOSURES, LANE CHANGES AND AT LEAST DAILY TO REVIEW WORK ZONE.
4. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AREAS FOR EQUIPMENT STORAGE AND STAGING OF MATERIALS. ALL COSTS FOR TCD AND E&S REQUIREMENTS FOR LAYDOWN YARD SHALL BE INCIDENTAL WITH OTHER ITEMS WITH NO SEPERATE PAYMENT THERETO.
5. THE WORK ZONE SHALL BE MAINTAINED ACCORDING TO THE TEMPORARY TRAFFIC CONTROL PLANS AS SHOWN IN THE CONTRACT DOCUMENTS.
6. THE FOLLOWING TRAFFIC CONTROL SPECIFICATIONS FROM THE VIRGINIA WORK AREA PROTECTION MANUAL MAY BE USED: TTC-1J, TTC-4J, TTC-6J, TTC-16J, TTC-17J, TTC-23J, TTC-28J AND TTC-53.0 AND OTHERS AS REQUIRED.
7. TYPICAL CHANNELIZING DEVICE SPACING SHALL BE AS FOLLOWS:
TRAVELWAY SPACING = 40'
TRANSITION SPACING = 20'
8. ENTRANCES ALONG E. MARKET STREET, 9TH STREET, LEXINGTON AVENUE, AND E. HIGH STREET WILL BE AFFECTED BY THE WORK ZONE AND ACCESS SHALL BE MAINTAINED AT ALL TIMES.
9. TYPES OF TRAFFIC CONSIST OF COMMUTERS, SCHOOL BUSES, TRANSIT BUSES, RESIDENTS, AND TRUCKS.
10. ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE (NOT PROTECTED BY BARRIER), AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK-FILLED TO FORM AN APPROXIMATE 6J DESIRABLE WEDGE, AGAINST THE EXISTING PAVEMENT SURFACE FOR SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST OF PLACING, MAINTAINING, AND REMOVING THE WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. NIGHT TIME WORK HOURS WILL BE ALLOWED AT THE DISCRETION OF THE PROJECT ENGINEER AND CITY TRAFFIC ENGINEER.
11. ALLOWABLE WORK HOURS SHALL BE FROM 7AM TO 6PM MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS AND WHEN NIGHT WORK IS APPROVED BY THE PROJECT ENGINEER AND CITY TRAFFIC ENGINEER.
12. APPROXIMATE WORK DURATION FOR THIS PROJECT IS X MONTHS.
13. THE CONTRACTOR SHALL BE REQUIRED TO STRICTLY ADHERE TO PROVISION OF ACCESSIBLE PEDESTRIAN ROUTES IN THE WORK ZONE AT ALL TIMES AS INDICATED IN THE TTC PLANS.

TRANSPORTATION OPERATIONS PLAN

THE CONTRACTOR IS TO COORDINATE WITH THE CITY OF CHARLOTTESVILLE TO PUBLISH ANNOUNCEMENTS REGARDING WORK ACTIVITIES FOR THIS PROJECT. EACH ACTIVITY WILL BE GOVERNED BY THE TIMES ESTABLISHED BY THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL PROVIDE LANE CLOSURE INFORMATION A MINIMUM OF TWO WEEKS IN ADVANCE OF WORK SO IT CAN BE PUBLISHED. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A TWO WEEK LOOK AHEAD EVERY WEDNESDAY BY NOON TO AID IN THE CITY NOTIFYING PUBLIC OF WORK ACTIVITIES.

PUBLIC COMMUNICATIONS PLAN

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF LANE CLOSURES EACH DAY BY CALLING A BELOW AND OTHERS AS REQUIRED:
 - A. TRANSPORTATION OPERATIONS, SHIFT SUPERVISOR 1-866-378-7743.
 - B. PROJECT INSPECTOR; TO BE DETERMINED.
 - C. CONSTRUCTION PROJECT MANAGER: BRIAN MCPETERS (804) 672-4721
2. THE FOLLOWING IS A LIST OF LOCAL EMERGENCY CONTACT AGENCIES:
CITY OF CHARLOTTESVILLE POLICE DEPARTMENT: (434) 970-3280 OR 911 (IN EMERGENCY)
3. PROCEDURES TO RESPOND TO TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE:
 - A. CONTRACTOR TO NOTIFY CITY OF CHARLOTTESVILLE INSPECTOR IN CHARGE.
 - B. DEPENDING ON THE SEVERITY OF INCIDENT, THE CONTRACTOR MAY HAVE TO SHUT DOWN
 - C. INSPECTOR TO TAKE PICTURES AS NECESSARY, ESPECIALLY PICTURES OF CONTRACTORS WORK ZONE TO VERIFY COMPLIANCE WITH STANDARDS.
 - D. UPON ARRIVAL ON SCENE, CITY OF CHARLOTTESVILLE POLICE DEPARTMENT STAFF TO DETERMINE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND THE INCIDENT.
 - E. TRAVELING PUBLIC AROUND THE INCIDENT.
 - F. PROCESS OF NOTIFICATION OF INCIDENT TO BE FOLLOWED IS:
 - a. CONTRACTOR TO CALL:
 - b. PROJECT MAINTENANCE OF TRAFFIC COORDINATOR (INSPECTOR) : TO BE DETERMINED
 - c. PROJECT MANAGER (CONSTRUCTION ENGINEER): TO BE DETERMINED
 - d. THE CITY OF CHARLOTTESVILLE POLICE DEPARTMENT WILL TAKE CONTROL OF THE INCIDENT AND DIRECT ITS CLEARING AND RESTORATION TO NORMAL TRAFFIC OPERATIONS.
 - e. THE CITY OF CHARLOTTESVILLE POLICE DEPARTMENT REPORT OF THE INCIDENT WILL BE REVIEWED BY THE CITY AND/OR VDOT TO DETERMINE IF ANY MODIFICATION OF THE TEMPORARY TRAFFIC CONTROL PLAN IS NECESSARY. IF IT IS DETERMINED THAT IT IS NECESSARY TO ALTER THE PLAN, THEN A MEETING WILL BE CALLED WITH THE CONTRACTOR, CITY OF CHARLOTTESVILLE PROJECT PERSONNEL, VDOT TRAFFIC SAFETY REPRESENTATIVES AND THE CITY OF CHARLOTTESVILLE POLICE DEPARTMENT STAFF (IF NECESSARY) TO DISCUSS MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.

Existing Posted Speed Limits Are As Follows:	
Basellne/Roadway	Posted Speed Limit
9th Street	25 MPH
E. Market Street	25 MPH
E. Jefferson Street	25 MPH
E. High Street	25 MPH
Lexington Avenue	25 MPH
10th Street	25 MPH

Required Work Zone Clear Zone Are As Follows:	
Basellne/Roadway	Work Zone Clear Zone
All Streets	4'

TRANSPORTATION MANAGEMENT PLAN (TMP)

SEQUENCE OF CONSTRUCTION/STAGING NARRATIVE

GENERAL

WORK DURATION IS 18 MONTHS AND IS A LONG-TERM STATIONARY WORK ZONE; HOWEVER, EXISTING THROUGH LANEAGE IS NOT REDUCED EXCEPT FOR TEMPORARY LANE CLOSURES DURING ALLOWABLE LANE CLOSURE HOURS.

THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN ACCESS TO PRIVATE PROPERTIES AND DRIVEWAYS. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER,

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR PROVIDING ALTERNATE WALKABLE AND TRANSVERSABLE PATHS FOR PEDESTRIANS WITHIN AREAS OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN OR OTHERWISE PROVIDE FOR PEDESTRIAN MOVEMENTS THROUGH WORK ZONE AREAS PER CURRENT MUTCD STANDARDS, VIRGINIA DEPARTMENT OF TRANSPORTATION WORK ZONE PEDESTRIAN AND BICYCLE GUIDANCE, AND VIRGINIA WORK AREA PROTECTION MANUAL.

COORDINATION WITH CITY POLICE IS REQUIRED IN ALL STAGES WHEN WORKING WITHIN TRAFFIC SIGNAL CONTROLLED INTERSECTIONS.

SEQUENCE OF CONSTRUCTION

UNLESS OTHERWISE APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING:

STAGE 1

PRIOR TO COMMENCEMENT OF STAGE 1 OPERATIONS, INSTALL SIGNS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TTC-53.0 AND TRAFFIC CONTROL DEVICES AS SHOWN IN THE TRAFFIC CONTROL PLANS ON SHEET 1J() THROUGH 1J() FOR STAGE 1 ACTIVITIES. CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT CONTROL MEASURES AS DEPICTED IN THE PLANS. SHIFT TRAFFIC INTO THE EASTERN MOST 22' OF EXISTING PAVEMENT (2-1/1' LANES) ALONG 9TH STREET FROM APPROXIMATE STATION 23+00 TO 37+00. CONTRACTOR SHALL SHIFT TRAFFIC AS SHOWN ON THE TRAFFIC CONTROL PLANS TO MAINTAIN THE TURN LANES DEPICTED AT THE 9TH STREET INTERSECTIONS WITH E. HIGH STREET. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ALONG EAST SIDE OF 9TH STREET ON THE SIDEWALK AT ALL TIMES.

CONTRACTOR SHALL CONSTRUCT IMPROVEMENTS (DUCT BANKS) FROM APPROXIMATE STATION 103+00 TO 105+75 ON MARKET STREET AND STATION 23+00 TO 37+00 ON 9TH STREET. ALL DROP OFF AREAS GREATER THAN 2' WITHIN THE CLEAR ZONE NOT PROTECTED BY TRAFFIC BARRIER SERVICE CONCRETE SHALL BE PROTECTED AT END OF EACH DAY BY A 6J WEDGE BEHIND THE GROUP 2 CHANNELIZING DEVICES.

STAGE 1A

ONCE STAGE 1 OPERATIONS ARE COMPLETE INSTALL SIGNS AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TTC-52.0 AND AS SHOWN IN THE TRAFFIC CONTROL PLANS ON SHEET 1J() THROUGH 1J() FOR STAGE 1A ACTIVITIES. CONTRACTOR SHALL SHIFT TRAFFIC INTO THE NORTHERN MOST 22' OF EXISTING PAVEMENT (2-1/1' LANES) ALONG MARKET STREET FROM APPROXIMATE STATION 101+00 TO 105+00. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ALONG NORTH SIDE OF MARKET STREET ON THE SIDEWALK AT ALL TIMES.

CONTRACTOR SHALL CONSTRUCT IMPROVEMENTS (DUCT BANKS) FROM APPROXIMATE STATION 101+00 TO 105+00 ON MARKET STREET. ALL DROP OFF AREAS GREATER THAN 2' WITHIN THE CLEAR ZONE NOT PROTECTED BY TRAFFIC BARRIER SERVICE CONCRETE SHALL BE PROTECTED AT END OF EACH DAY BY A 6J WEDGE BEHIND THE GROUP 2 CHANNELIZING DEVICES.

STAGE 2

ONCE STAGE 1A OPERATIONS ARE COMPLETE INSTALL SIGNS AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TTC-52.0 AND AS SHOWN IN THE TRAFFIC CONTROL PLANS ON SHEET 1J() THROUGH 1J() FOR STAGE 2 ACTIVITIES. THE CONTRACTOR SHALL REMOVE THE EXISTING CONCRETE MEDIAN ALONG 9TH STREET BY CLOSING THE INSIDE LANES OF 9TH STREET BETWEEN E. MARKET STREET AND E. HIGH STREET AND PATCH WITH ASPHALT AS SHOWN IN THE PLANS. UPON COMPLETION, CONTRACTOR SHALL TEMPORARILY STRIPE A DOUBLE YELLOW CENTER LINE TO REPLACE THE MEDIAN.

STAGE 3

ONCE STAGE 2 OPERATIONS ARE COMPLETE INSTALL SIGNS AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TTC-52.0 AND AS SHOWN IN THE TRAFFIC CONTROL PLANS ON SHEET 1J() THROUGH 1J() FOR STAGE 3 ACTIVITIES. CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT CONTROL MEASURES AS DEPICTED IN THE PLANS. SHIFT TRAFFIC INTO THE WESTERN MOST 33' OF EXISTING PAVEMENT (3-1/1' LANES) ALONG 9TH STREET FROM APPROXIMATE STATION 23+00 TO 37+00. CONTRACTOR SHALL SHIFT TRAFFIC AS SHOWN ON THE TRAFFIC CONTROL PLANS TO MAINTAIN THE TURN LANES DEPICTED AT THE 9TH STREET INTERSECTIONS WITH MARKET STREET, JEFFERSON STREET, E. HIGH STREET, AND LEXINGTON STREET. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ALONG WEST SIDE OF 9TH STREET ON THE SIDEWALK AT ALL TIMES.

CONTRACTOR SHALL CONSTRUCT IMPROVEMENTS (CLEARING, STORM SEWER, GRADING, CURB, SIDEWALK, AND TEMPORARY AND PERMANENT ASPHALT UP TO THE INTERMEDIATE COURSE) ALONG THE EAST SIDE OF 9TH STREET FROM APPROXIMATE STATION 23+00 TO 38+50. ALL DROP OFF AREAS GREATER THAN 2' WITHIN THE CLEAR ZONE NOT PROTECTED BY TRAFFIC BARRIER SERVICE CONCRETE SHALL BE PROTECTED AT END OF EACH DAY BY A 6J WEDGE BEHIND THE GROUP 2 CHANNELIZING DEVICES.

STAGE 4

ONCE STAGE 3 OPERATIONS ARE COMPLETE INSTALL SIGNS AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TTC-52.0 AND AS SHOWN IN THE TRAFFIC CONTROL PLANS ON SHEET 1J() THROUGH 1J() FOR STAGE 4 ACTIVITIES. CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT CONTROL MEASURES AS DEPICTED IN THE PLANS. SHIFT TRAFFIC INTO THE EASTERN MOST 22' OF EXISTING PAVEMENT (2-1/1' LANES) ALONG 9TH STREET FROM APPROXIMATE STATION 23+00 TO 37+00. CONTRACTOR SHALL USE FLAGGING OPERATIONS ON 9TH STREET FROM APPROXIMATE STATION 29+00 TO 35+00 TO COMPLETE ASPHALT UP TO THE INTERMEDIATE COURSE. CONTRACTOR SHALL SHIFT TRAFFIC AS SHOWN ON THE TRAFFIC CONTROL PLANS TO MAINTAIN THE TURN LANES DEPICTED AT THE 9TH STREET INTERSECTIONS WITH MARKET STREET. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ALONG EAST SIDE OF 9TH STREET ON THE SIDEWALK AT ALL TIMES.

CONTRACTOR SHALL CONSTRUCT IMPROVEMENTS (CLEARING, STORM SEWER, GRADING, CURB, SIDEWALK AND TEMPORARY AND PERMANENT ASPHALT UP TO THE INTERMEDIATE COURSE) ALONG THE EAST SIDE OF 9TH STREET FROM APPROXIMATE STATION 23+00 TO 38+50. ALL DROP OFF AREAS GREATER THAN 2' WITHIN THE CLEAR ZONE NOT PROTECTED BY TRAFFIC BARRIER SERVICE CONCRETE SHALL BE PROTECTED AT END OF EACH DAY BY A 6J WEDGE BEHIND THE GROUP 2 CHANNELIZING DEVICES.

STAGE 5

ONCE STAGE 4 OPERATIONS ARE COMPLETE, THE CONTRACTOR SHALL SET UP STAGE 4 ACTIVITIES AND UTILIZE ALTERNATE LANE CLOSURES ALONG 9TH STREET TO CONSTRUCT THE FINAL PAVEMENT SURFACE COURSE, FINAL STRIPING AND MARKING, FINAL SIGNING, SEEDING AND LANDSCAPING THROUGHOUT. UPON COMPLETION, CONSTRUCTED IMPROVEMENTS SHALL BE FULLY OPENED TO ALL TRAFFIC.

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

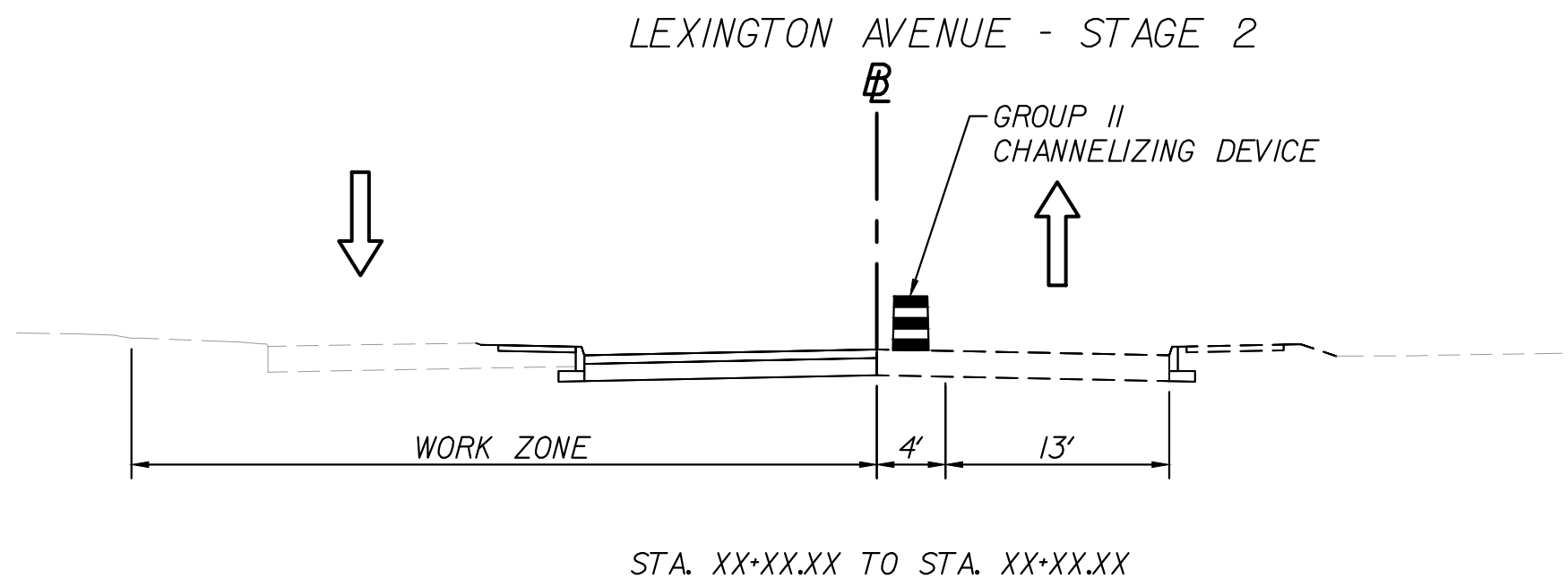
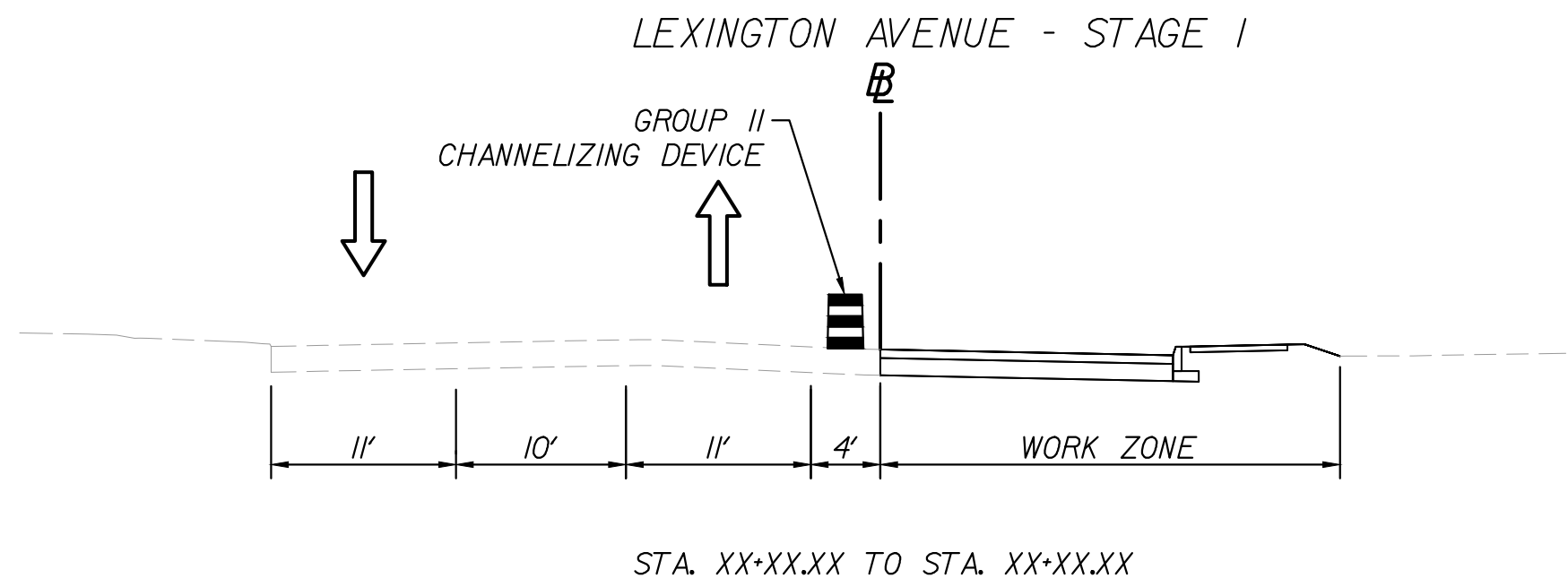
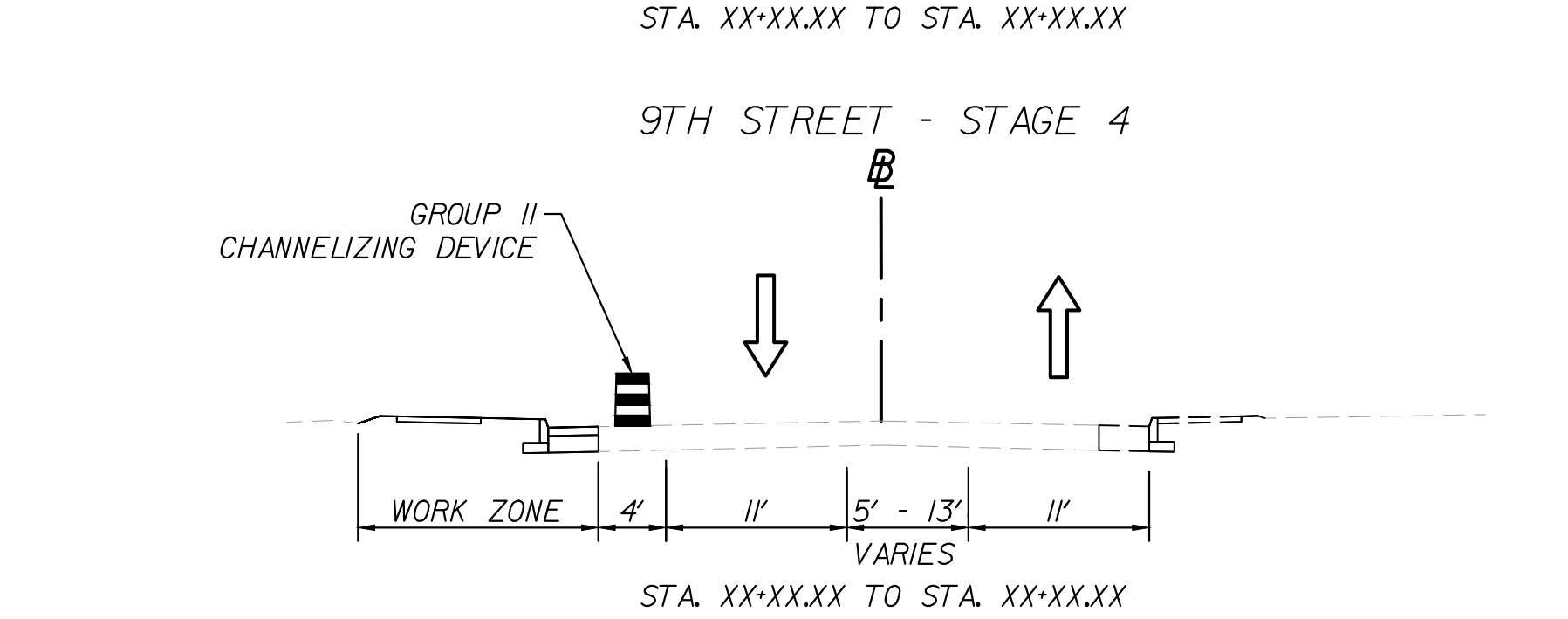
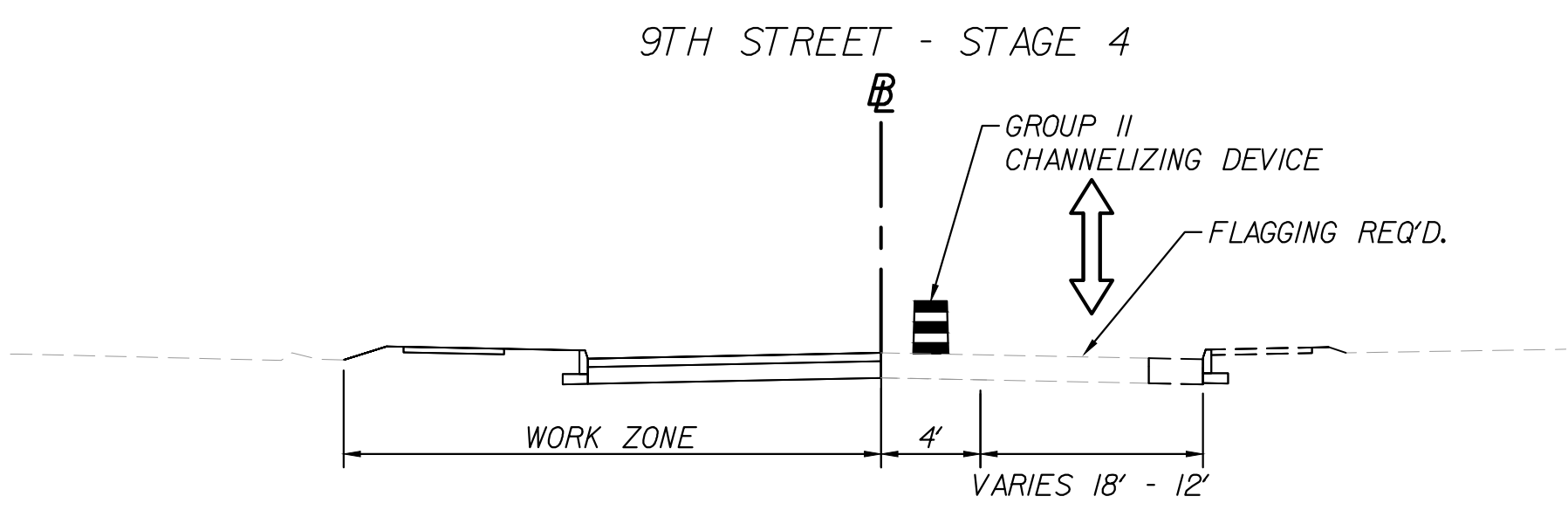
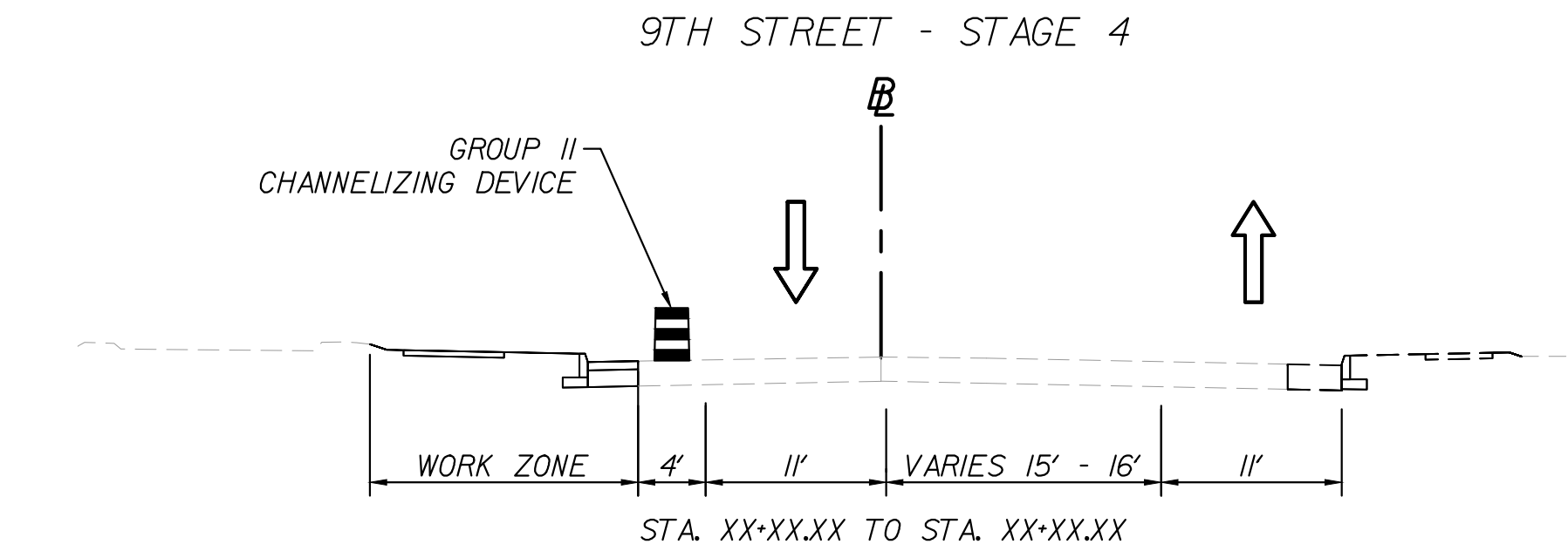
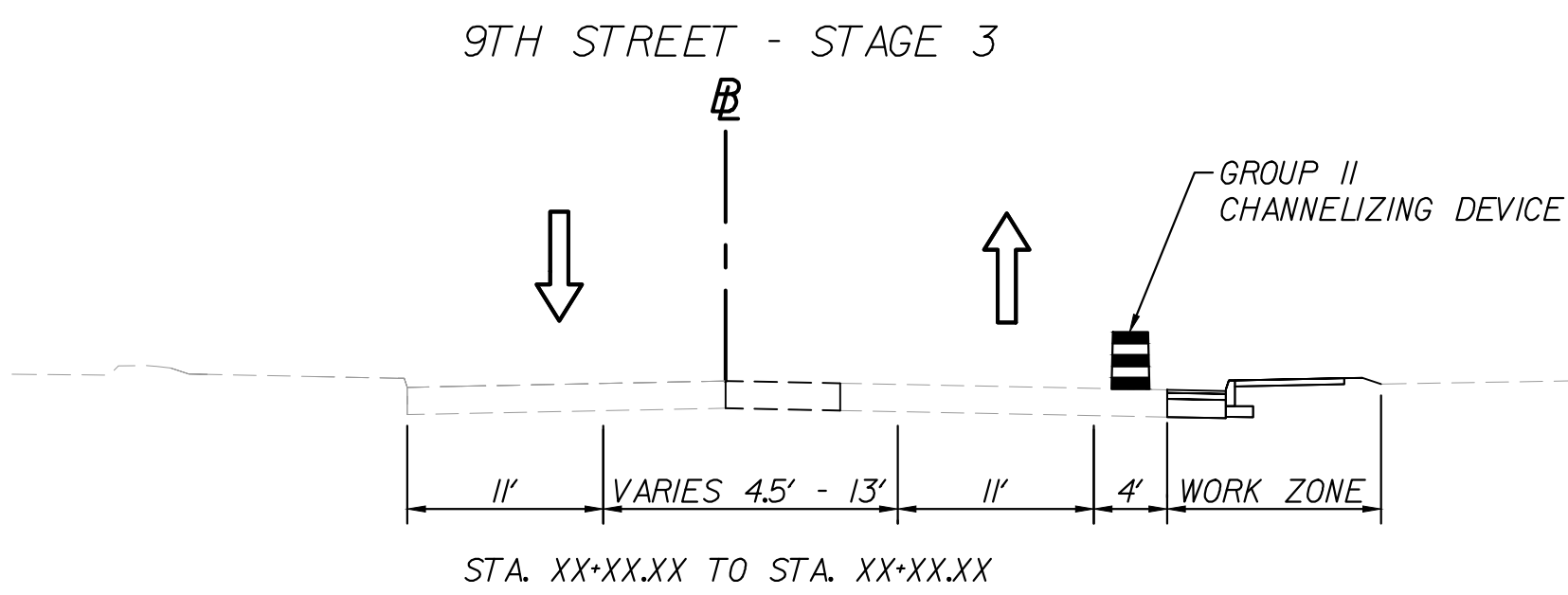
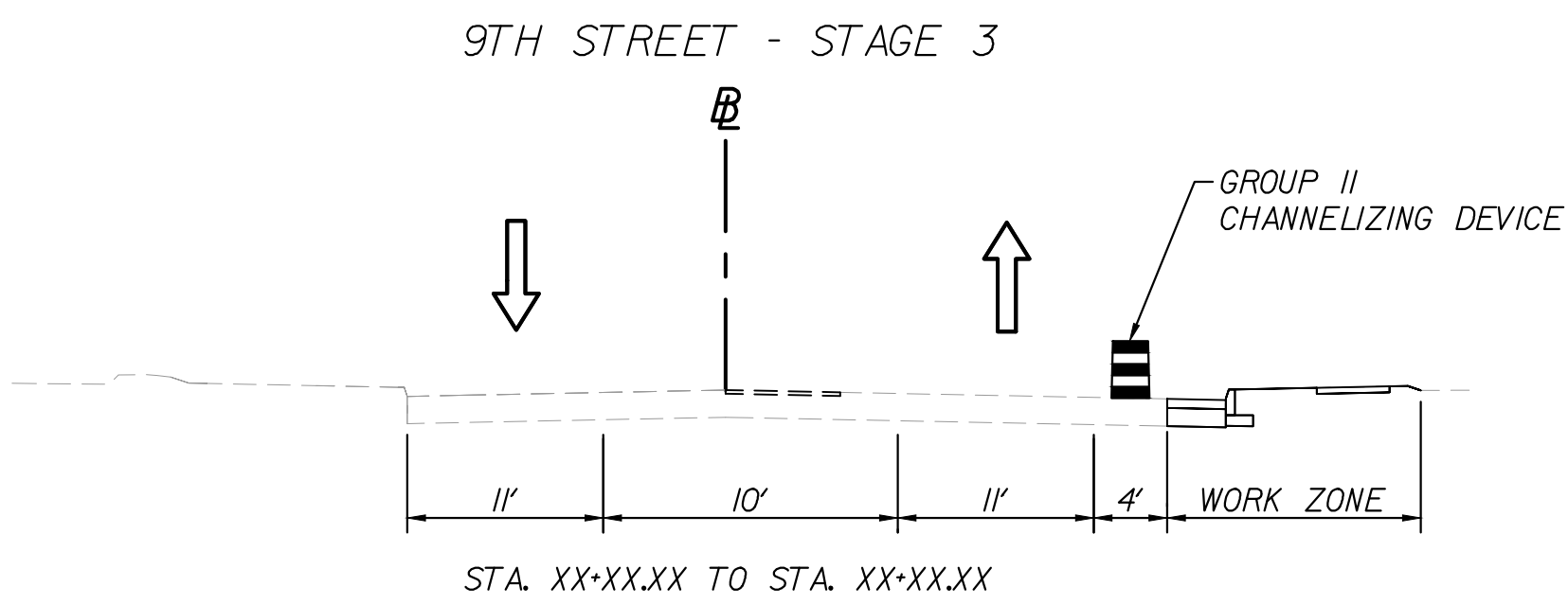
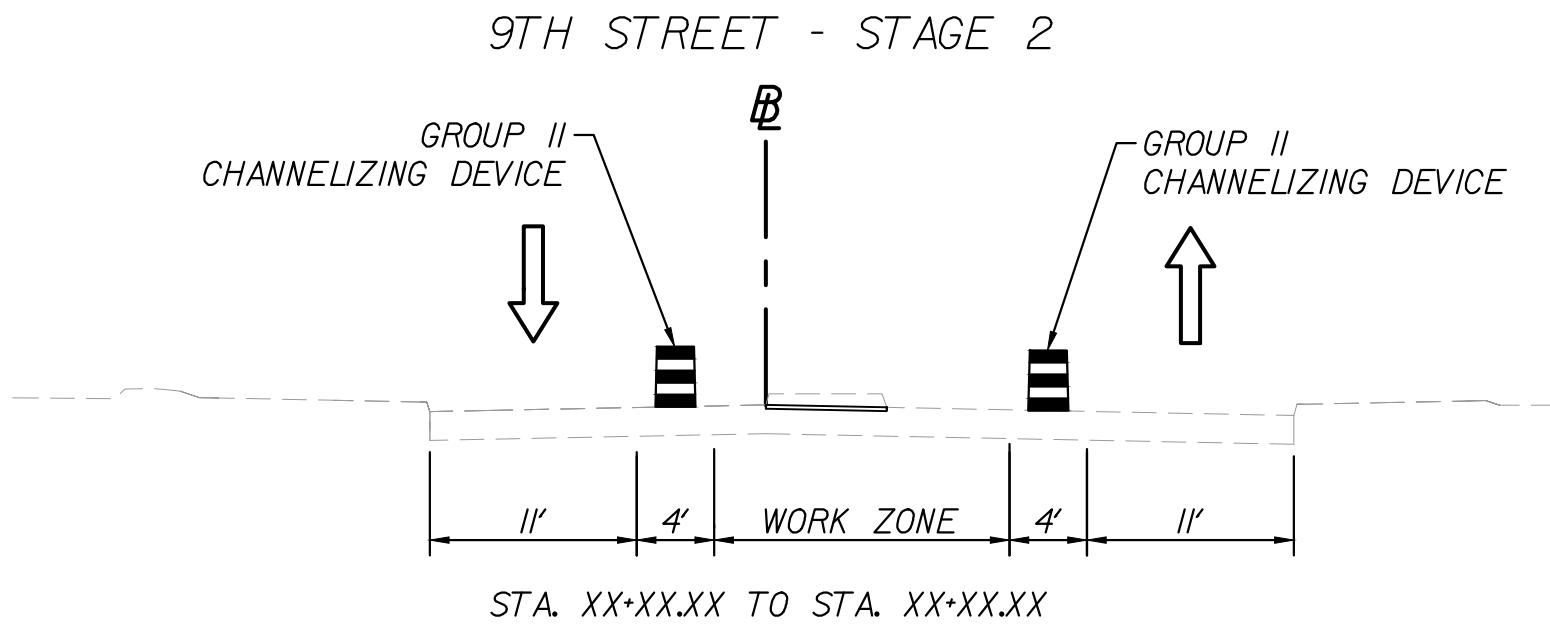
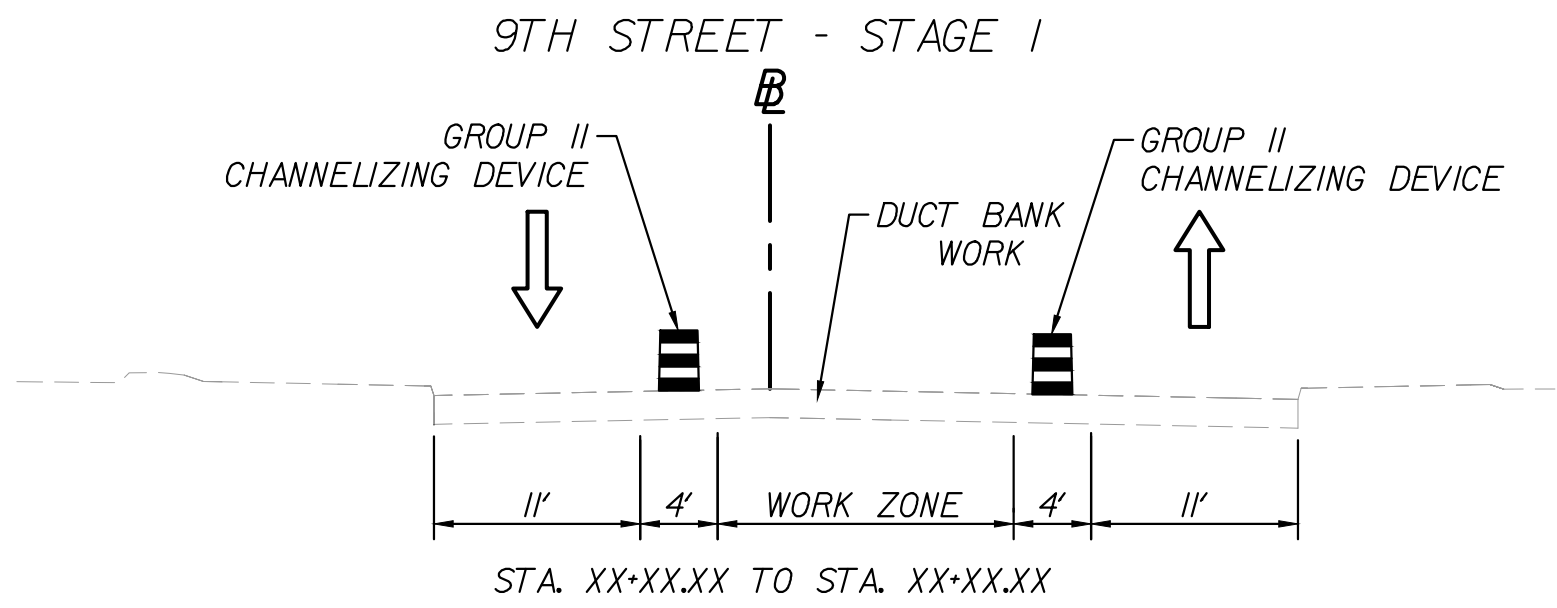
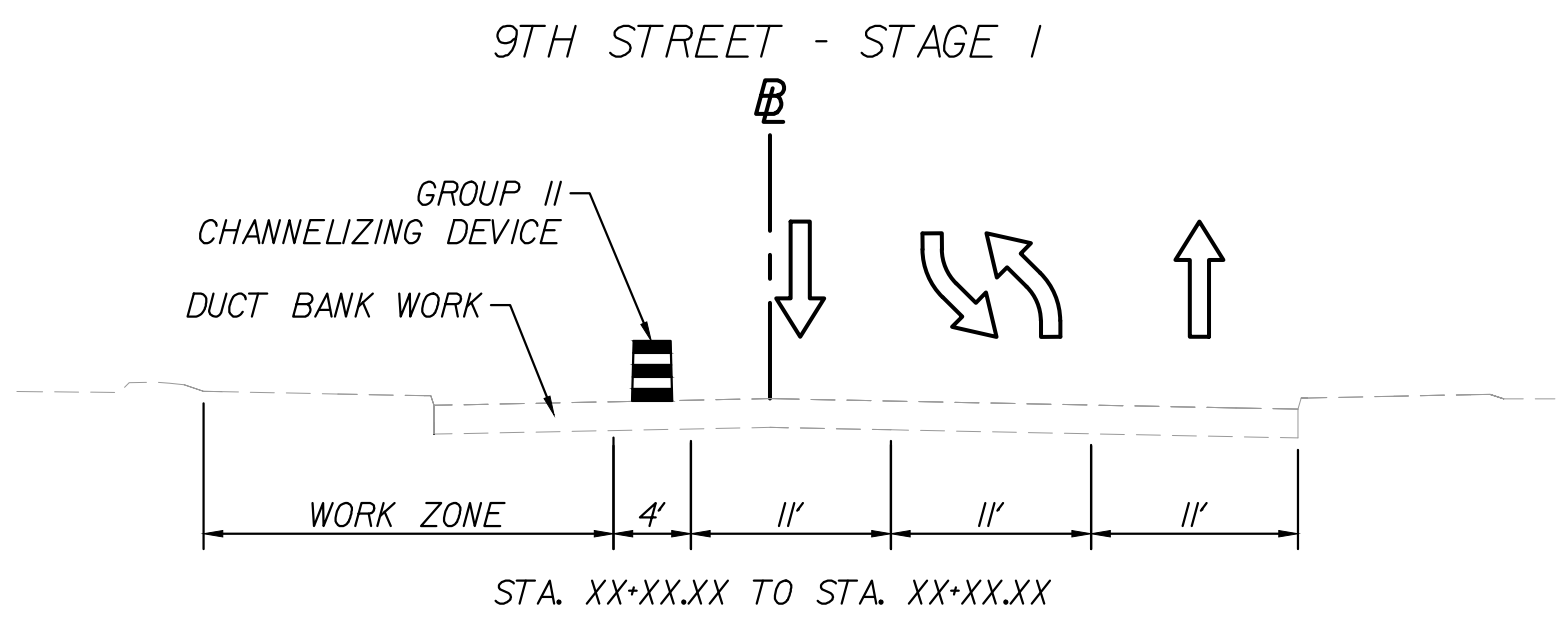
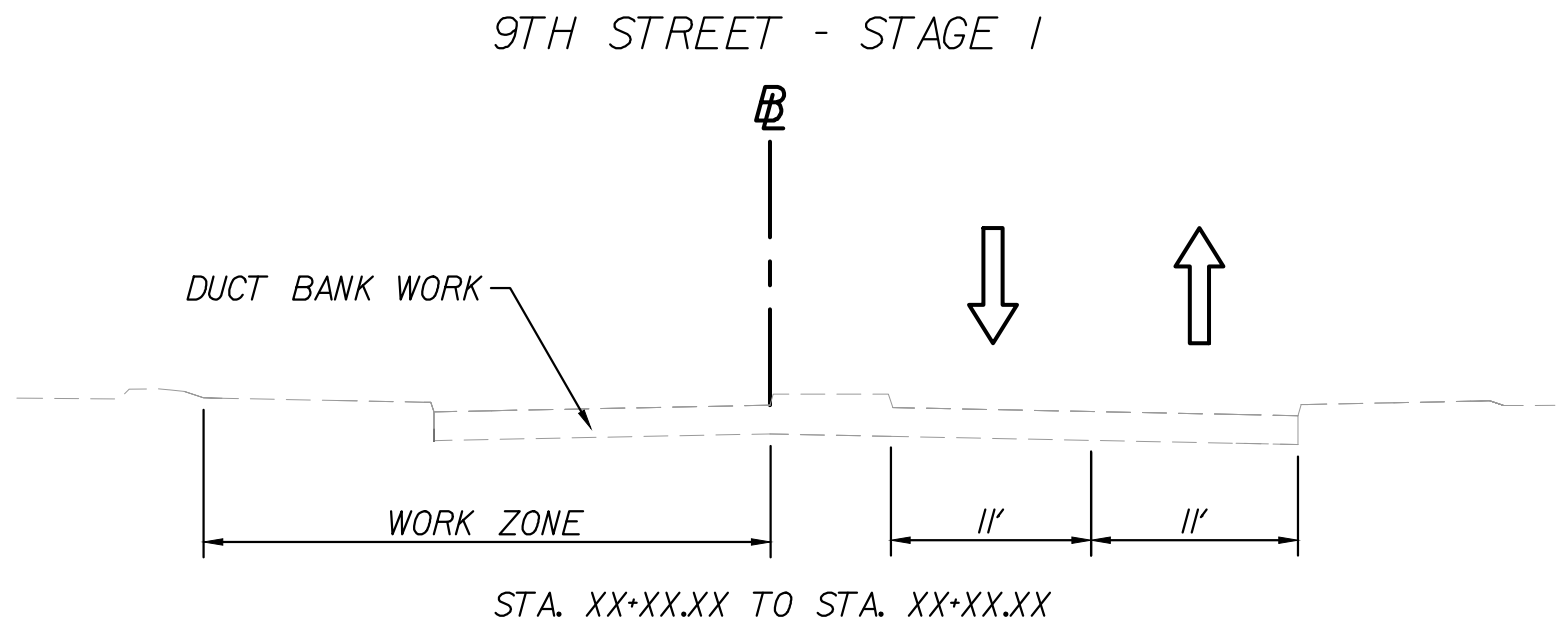
PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

PROJECT	SHEET NO.
U000-104-298	1H(1)

PROJECT MANAGER: TIM MOTSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

TRANSPORTATION MANAGEMENT PLAN TYPICAL SECTIONS
NOT TO SCALE

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	1H(2)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Kimley-Horn & Associates, Inc. Richmond, Virginia ROADWAY ENGINEER				



PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

PROJECT	SHEET NO.
U000-104-298	1H(2)

October 25, 2017 5:20 PM Brian, Ajaya
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DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

WATER QUALITY AND QUANTITY DATA SHEET

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	I/J

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

BMP SUMMARY

BMP Type	BMP A				BMP B			
	Proprietary Device				Proprietary Device			
BMP Service Area	Outfall B				Outfall B			
Design Removal Efficiency (%)	50%				50%			
Drainage area used for sizing BMP (Acres)	Soil Type	Open Space	Managed Turf	Impervious	Soil Type	Open Space	Managed Turf	Impervious
	A	0.00	0.00	0.00	A	0.00	0.00	0.00
	B	0.00	0.00	0.00	B	0.00	0.00	0.00
	C	0.00	0.00	0.00	C	0.00	0.00	0.00
	D	0.00	0.09	0.08	D	0.00	0.06	0.18
Total		0.00	0.09	0.08	Total		0.00	0.06
Pervious Acres Treated		0.09			Total		0.06	
Impervious Acres Treated		0.08			Total		0.18	
Treatment Volume (cf)		495			Total		875	
Load Removed (lbs)		0.19			Total		0.40	

WATER QUALITY SUMMARY

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

BMP Design Specifications List: 2013 Draft Stds & Specs

Site Summary - Linear Development Project***

Project Title: E. High Streetscape

Date: 43539

Total Rainfall (in):	43
Total Disturbed Acreage:	1.19

Update Summary Sheet

Print Preview

Print

Site Land Cover Summary

Pre-ReDevelopment Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.06	0.00	0.00	0.06	5
Impervious Cover (acres)	0.00	1.13	0.00	0.00	1.13	95
					1.19	100

Post-ReDevelopment Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.28	0.00	0.00	0.28	24
Impervious Cover (acres)	0.00	0.91	0.00	0.00	0.91	76
					1.19	100

Site Tv and Land Cover Nutrient Loads

	Final Post-Development (Post-ReDevelopment & New Impervious)	Post- ReDevelopment	Post- Development (New Impervious)	Adjusted Pre- ReDevelopment
Site Rv	0.77	0.77	--	0.91
Treatment Volume (ft ³)	3,331	3,331	--	3,933
TP Load (lb/yr)	2.09	2.09	--	2.47

Pre- ReDevelopment TP Load per acre (lb/acre/yr)	Final Post- Development TP Load per acre (lb/acre/yr)	Post-ReDevelopment TP Load per acre (lb/acre/yr)
2.08	1.76	1.76

Total TP Load Reduction Required (lb/yr)	0.12	N/A***	N/A***
--	------	--------	--------

***This is a linear development project

	Final Post-Development Load (Post-ReDevelopment & New Impervious)	Pre- ReDevelopment
TN Load (lb/yr)	14.97	17.68

THIS PROJECT IS REQUIRED TO REDUCE THE TOTAL PHOSPHOROUS LOAD BY X.XX LB/YEAR. THE USE OF TWO PROPRIETARY DEVICES REDUCES THAT TOTAL BY X.XX LB/YEAR.

WATER QUANTITY SUMMARY

PRE-DEVELOPMENT					
Outfall	Area (acres)	CN	Tc (minutes)	2-yr Q (cfs)	10-yr Q (cfs)
A	0.43	96.0	5	2.09	3.21
B	25.21	94.7	10	104.96	163.32
C	5.38	92.1	6	24.15	38.48
D	3.78	92.8	7	16.42	26.01
E	0.17	97.4	5	0.84	1.28
POST-DEVELOPMENT					
Outfall	Area (acres)	CN	Tc (minutes)	2-yr Q (cfs)	10-yr Q (cfs)
A	0.43	95.9	5	2.09	3.20
B	25.23	94.8	10	105.26	163.62
C	5.33	92.1	6	23.92	38.12
D	3.92	92.7	7	16.99	26.94
E	0.16	97.4	5	0.79	1.20
B (Bypass)	0.03	98.0	5	0.15	0.23

PUBLIC HEARING PLANS

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SCALE
0 150' 300'

PROJECT
U000-104-298

SHEET NO.
I/J

October 25, 2017 5:20 PM Blair, Anya
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PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

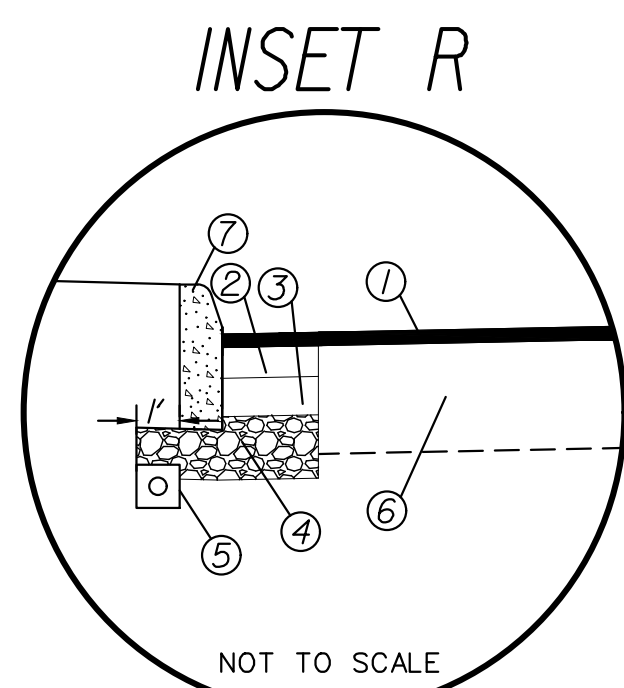
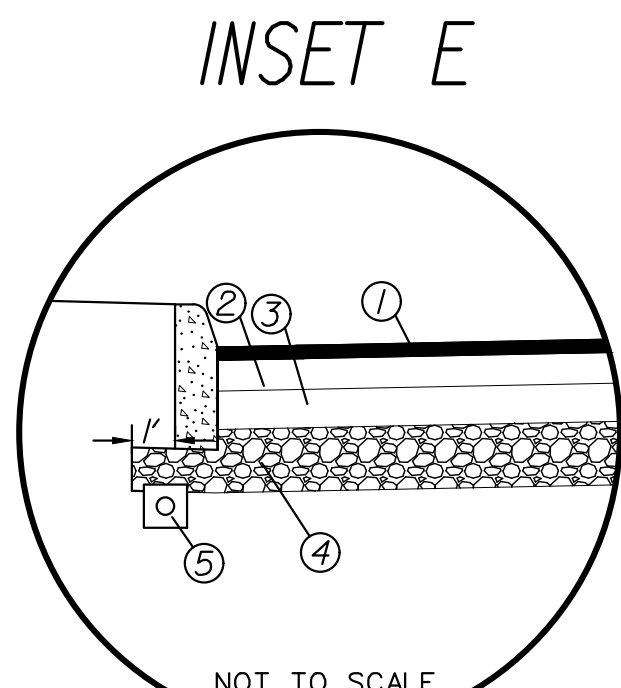
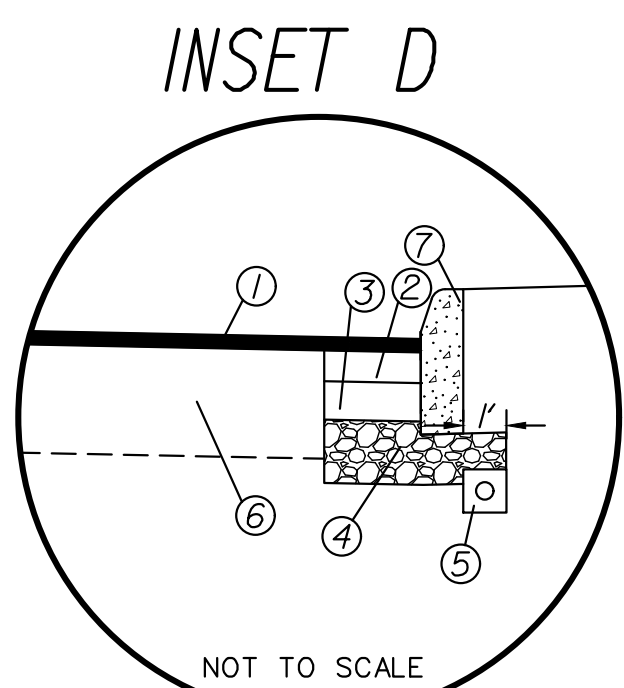
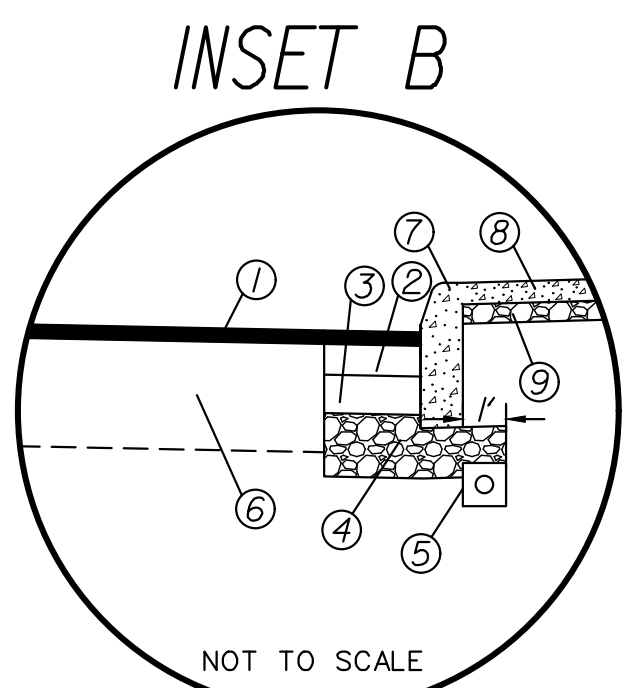
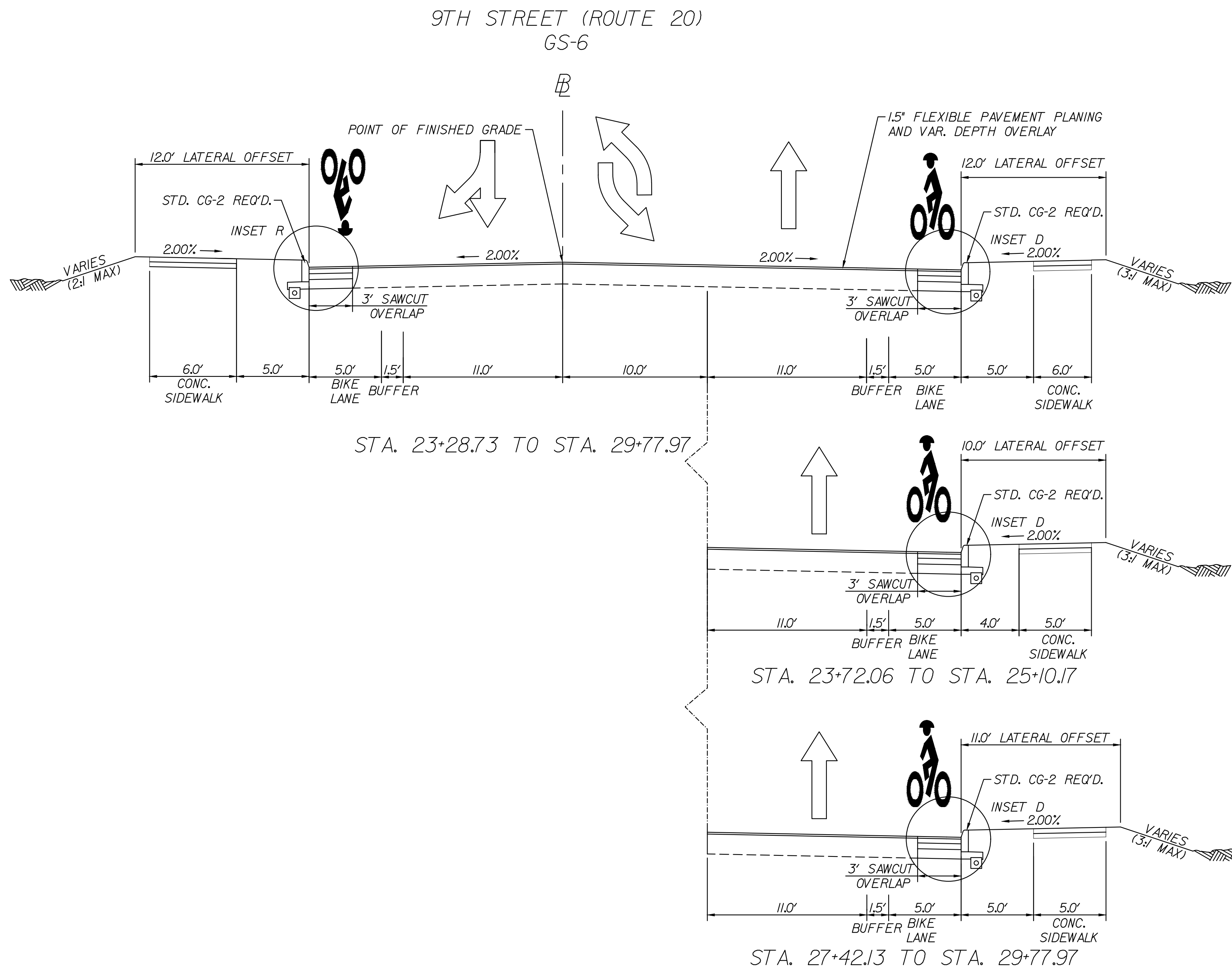
TYPICAL SECTIONS

(Not to Scale)

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	2A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



PRIVATE AND COMMERCIAL ENTRANCES

NOT TO SCALE

TYPE III

Asphalt

Asphalt Conc. Type
SM-9.5A @ 220 Lbs. per S. Y.
4" Aggr. Base Mat'l. Ty. I
No. 21B

TYPE IV

Asphalt Commercial

Asphalt Conc. Type
SM-9.5A @ 165 Lbs. per S. Y.
4" Asphalt Conc. Base Course
BM-25.0A
6" Aggr. Base Mat'l. Ty. I
No. 21B

The type of entrance (III & IV) to be constructed will be determined by the existing condition at the time of construction.

- 1.5" ASPHALT CONCRETE SURFACE
TYPE SM-9.5A @ 165 LB/SY
- X" ASPHALT CONCRETE INTERMEDIATE,
TYPE 1M-19.0A @ 220 LB/SY
- X" ASPHALT CONCRETE BASE COURSE,
TYPE BM-25.0A
- X" AGGREGATE BASE MAT'L. TY. J VDOT NO. 21B
- MOD. UD-4 REQ'D
- EXISTING PAVEMENT SECTION
- STD. CG-2 REQ'D, CITY MIX CLASS A 3500 CONC.
- BC CITY MIX CLASS A
3500 CONC.
- 4" AGGREGATE BASE MAT'L. TY. J VDOT NO. 21B

NOTES:

- ALL WIDENING SHALL BE CONSISTENT WITH STD. WP-2.
- CONNECT ALL UNDERDRAINS TO DROP INLETS, UNLESS OTHERWISE DIRECTED.
- CITY MIX CONC. SIDEWALK WILL BE PAID FOR AS STD. HYDR. CEMENT CONC. SIDEWALK.
- CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE UNDERDRAIN DURING CURB INSTALLATION.

PUBLIC HEARING PLANS

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PROJECT		SHEET NO.
U000-104-298	2A	

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

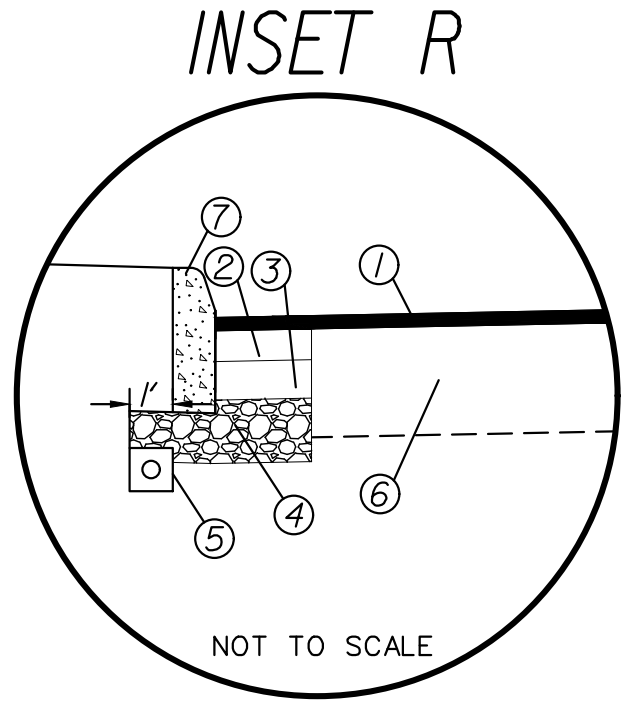
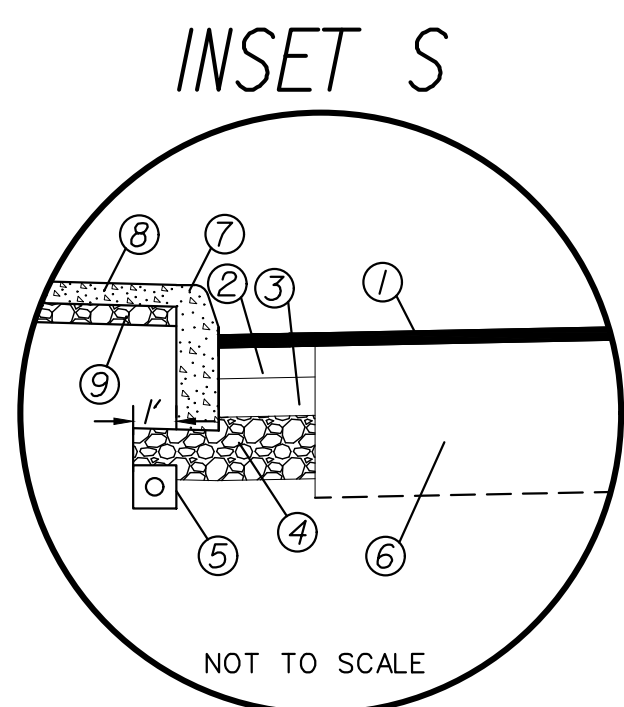
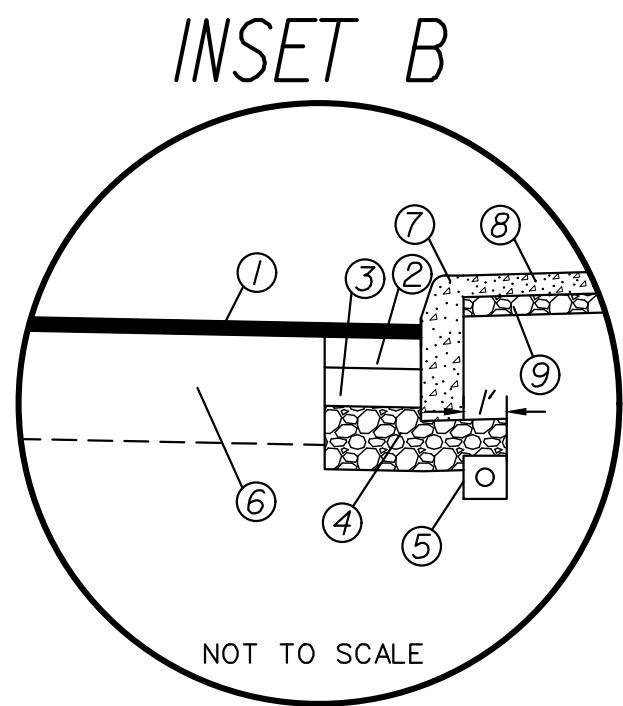
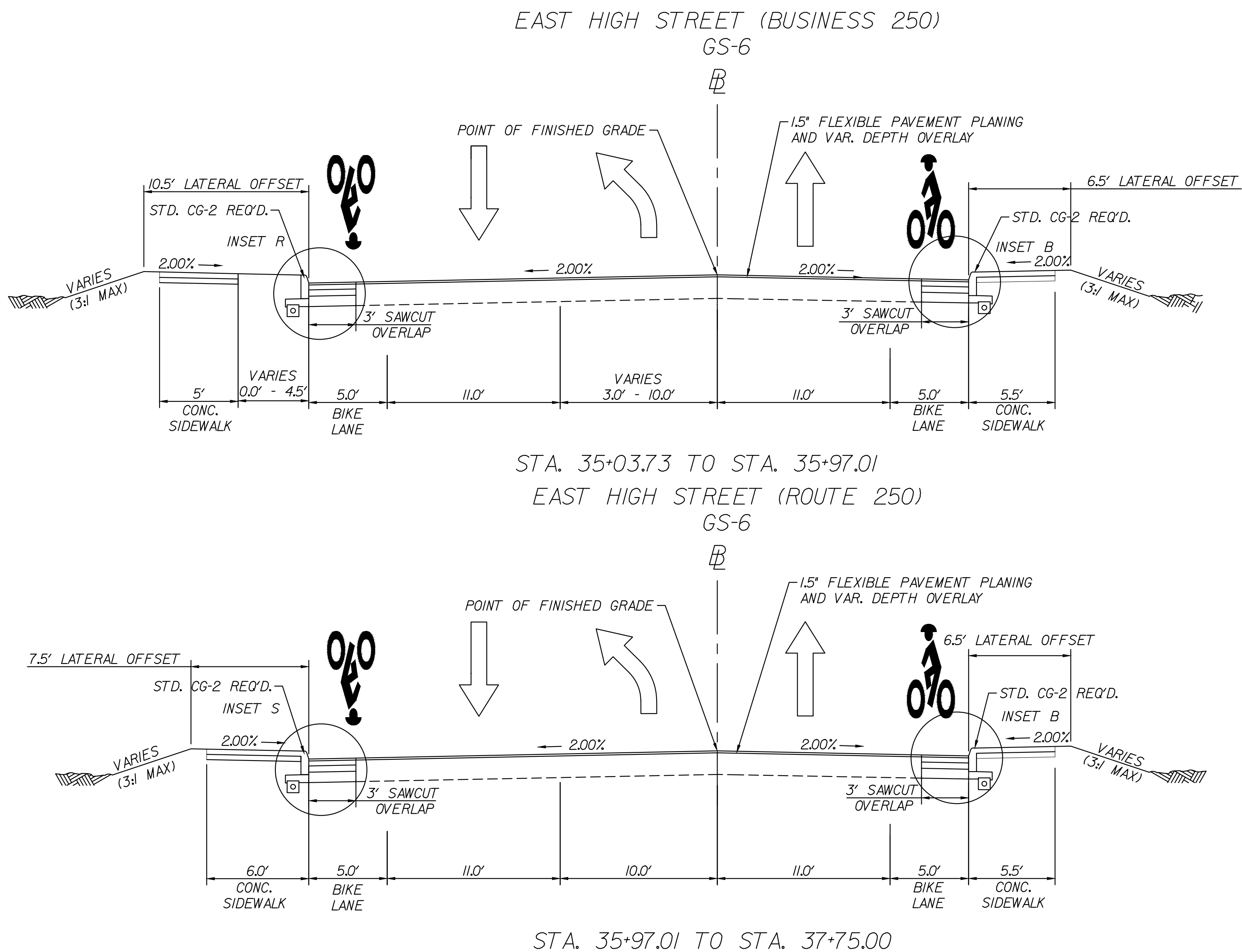
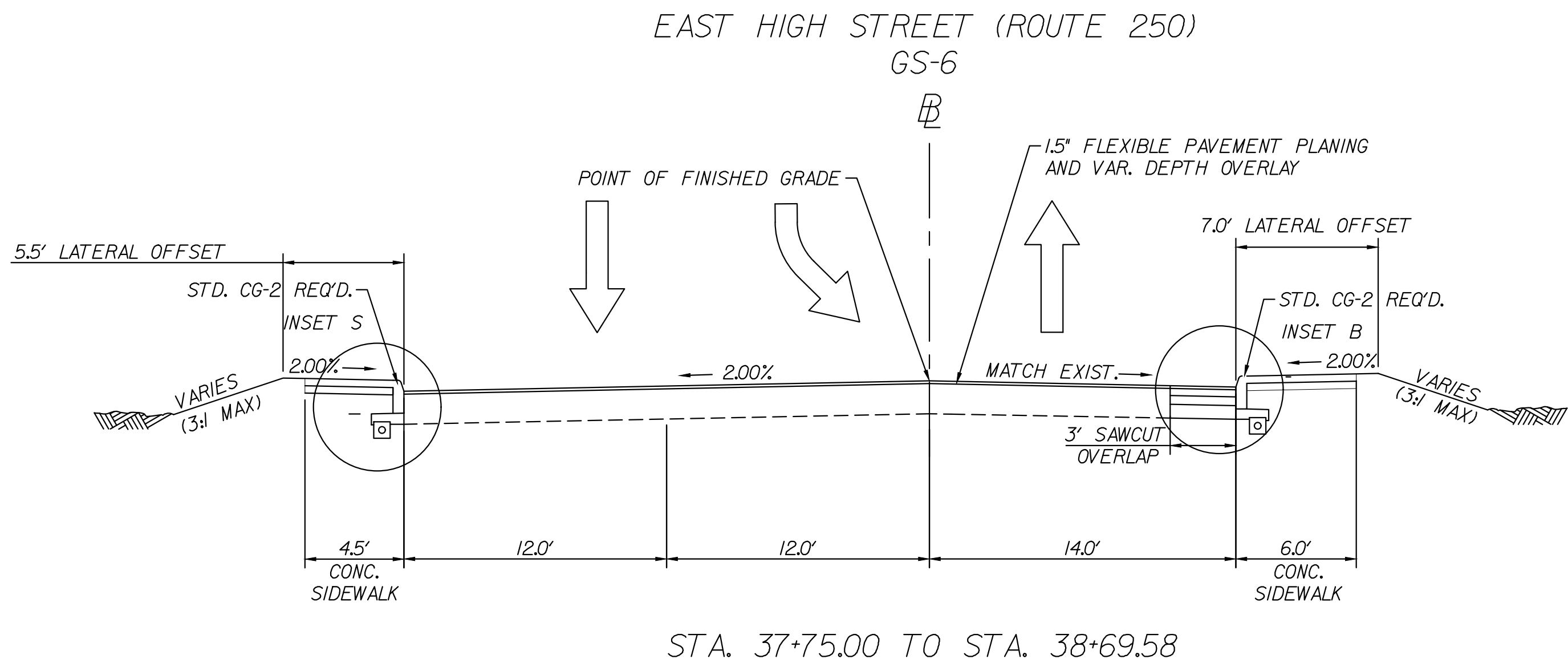
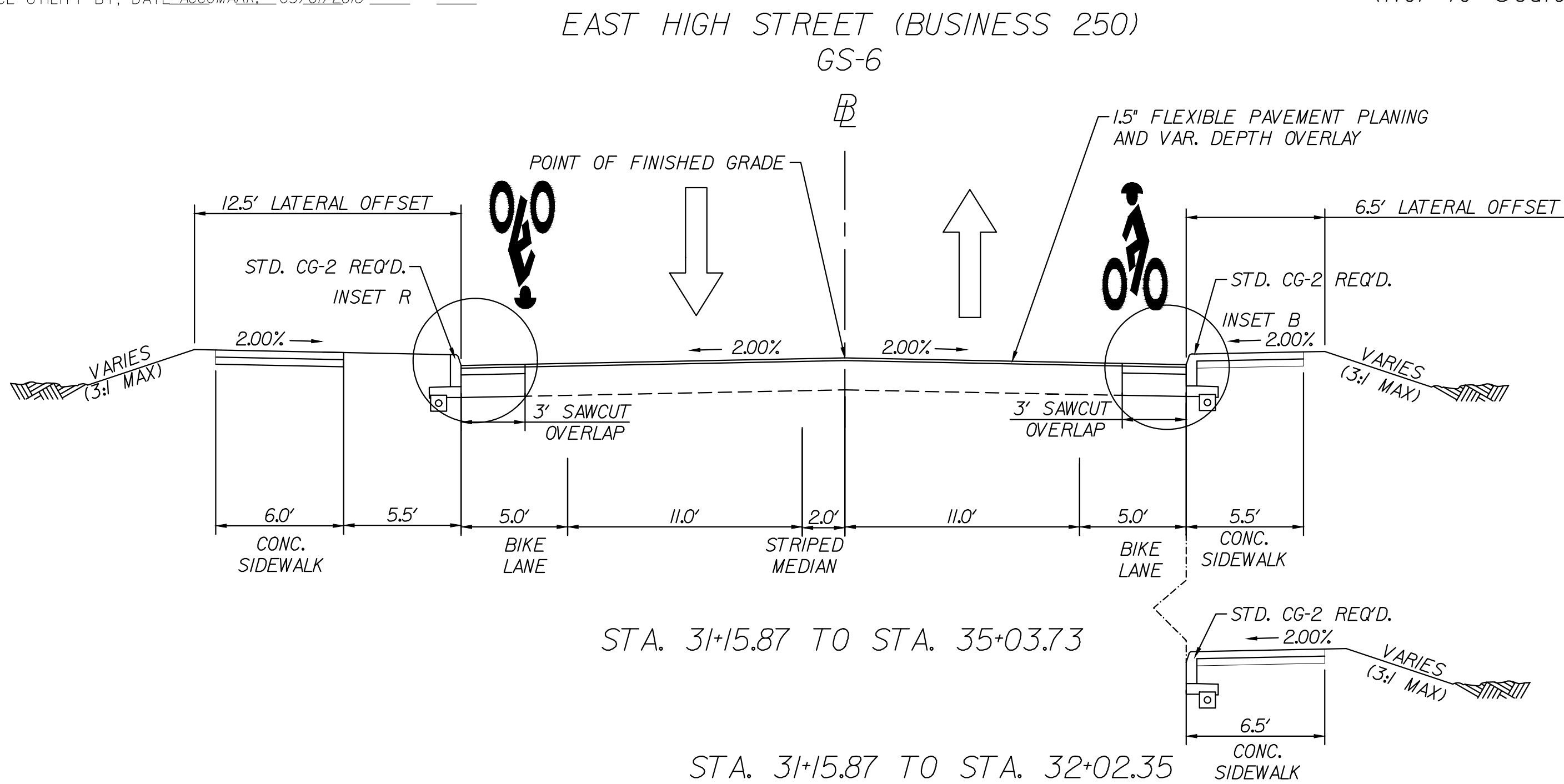
TYPICAL SECTIONS

(Not to Scale)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 RW-201, C-501	2B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



- 1.5" ASPHALT CONCRETE SURFACE
TYPE SM-9.5A @165 LB/SY
- X" ASPHALT CONCRETE INTERMEDIATE,
TYPE IM-19.0A @220 LB/SY
- X" ASPHALT CONCRETE BASE COURSE,
TYPE BM-25.0A
- X" AGGREGATE BASE MAT'L TYJ VDOT NO. 2/B
- MOD. UD-4 REQ'D
- EXISTING PAVEMENT SECTION
- STD. CG-2 REQ'D., CITY MIX CLASS A 3500 CONC.
- BC CITY MIX CLASS A
3500 CONC.
- 4" AGGREGATE BASE MAT'L TYJ VDOT NO. 2/B

NOTES:
1. ALL WIDENING SHALL BE CONSISTENT WITH STD. WP-2.
2. CONNECT ALL UNDERDRAINS TO DROP INLETS, UNLESS OTHERWISE DIRECTED.
3. CITY MIX CONC. SIDEWALK WILL BE PAID FOR AS STD. HYDR. CEMENT CONC. SIDEWALK.
4. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE UNDERDRAIN DURING CURB INSTALLATION.

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

PROJECT
U000-104-298

SHEET NO.
2B

PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

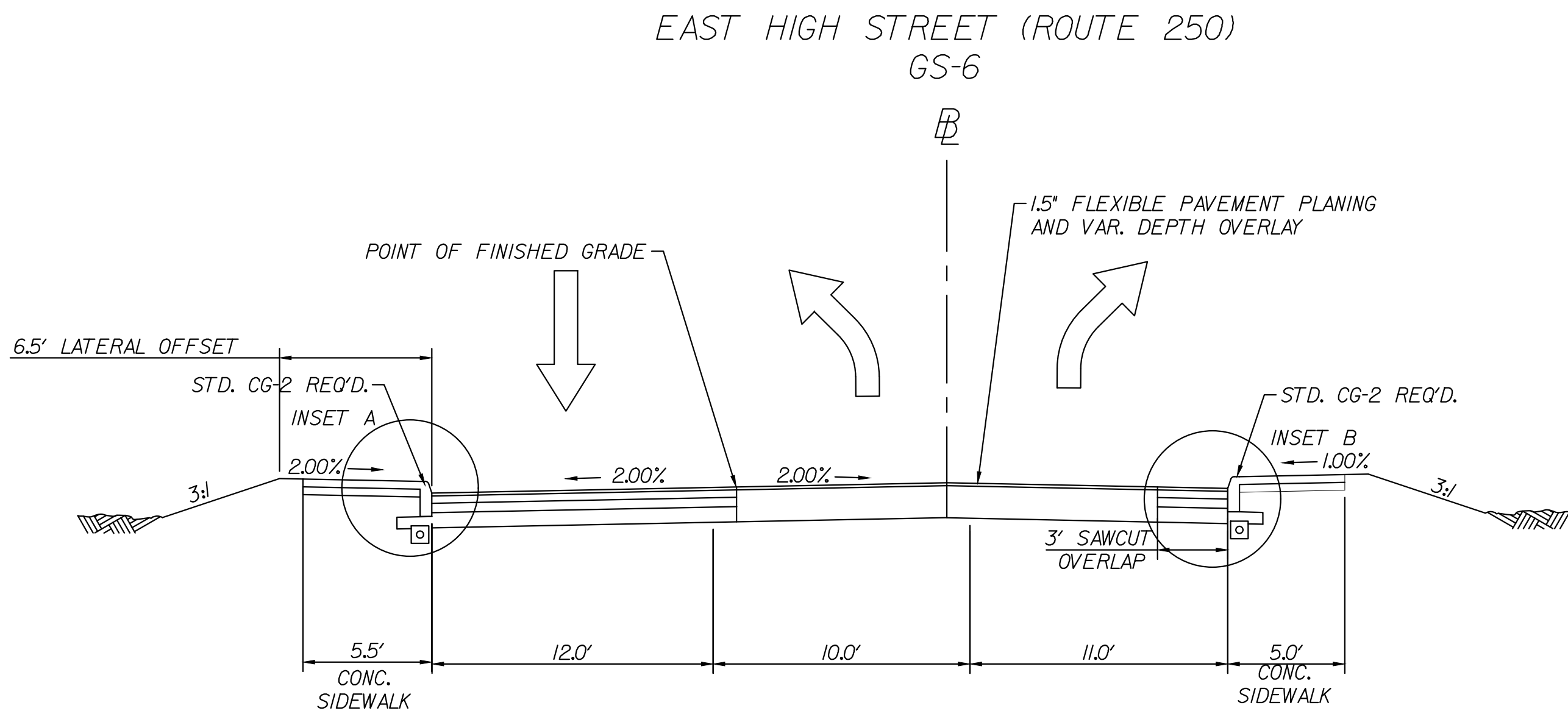
TYPICAL SECTIONS

(Not to Scale)

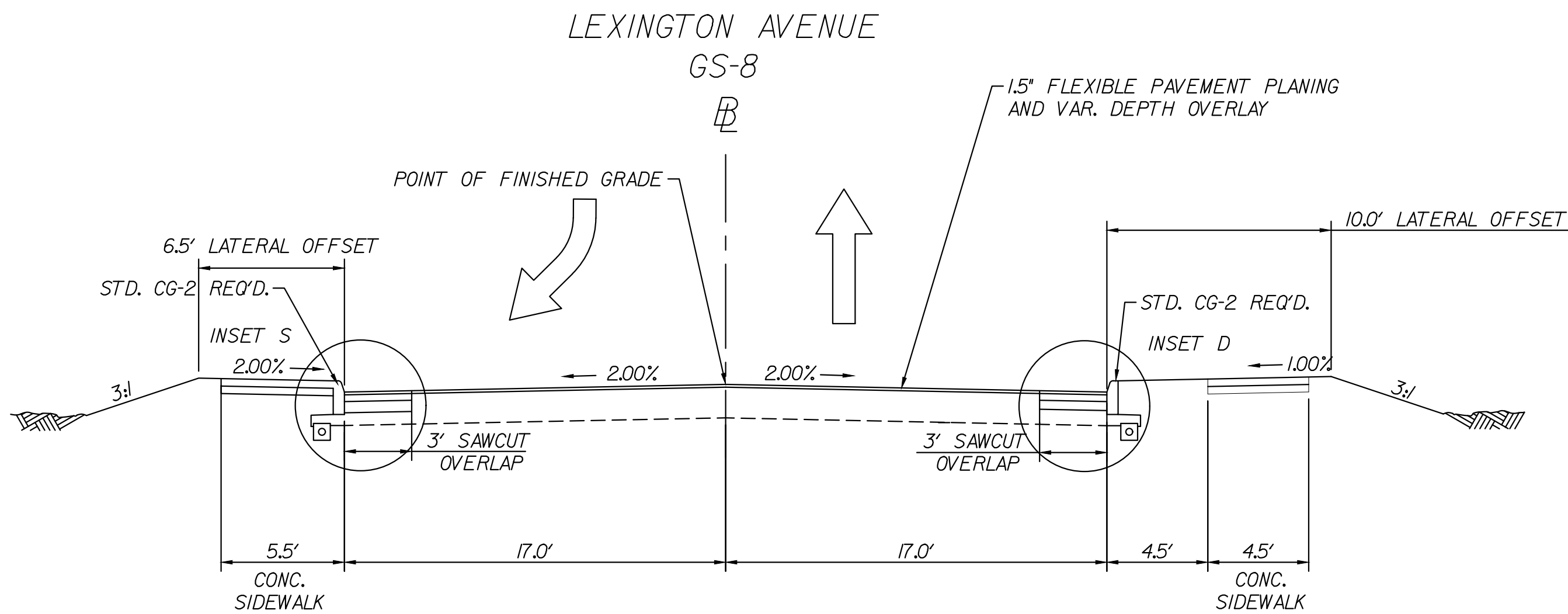
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	2C

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

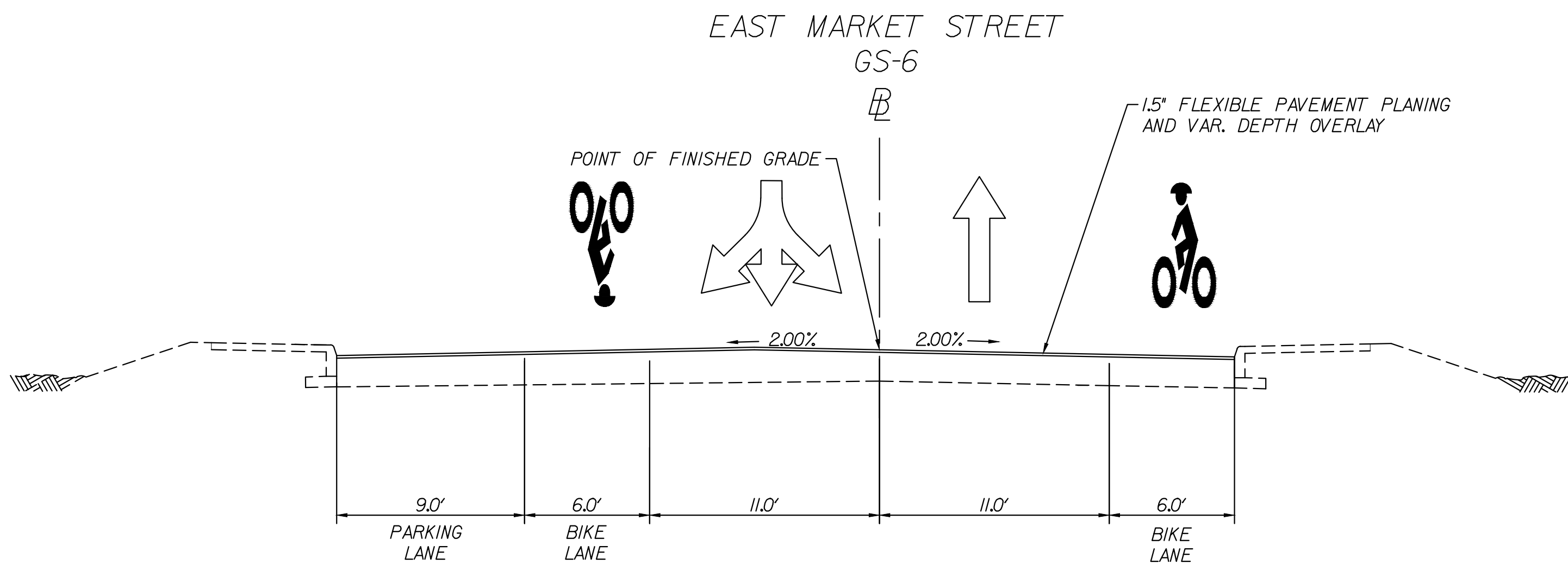
Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



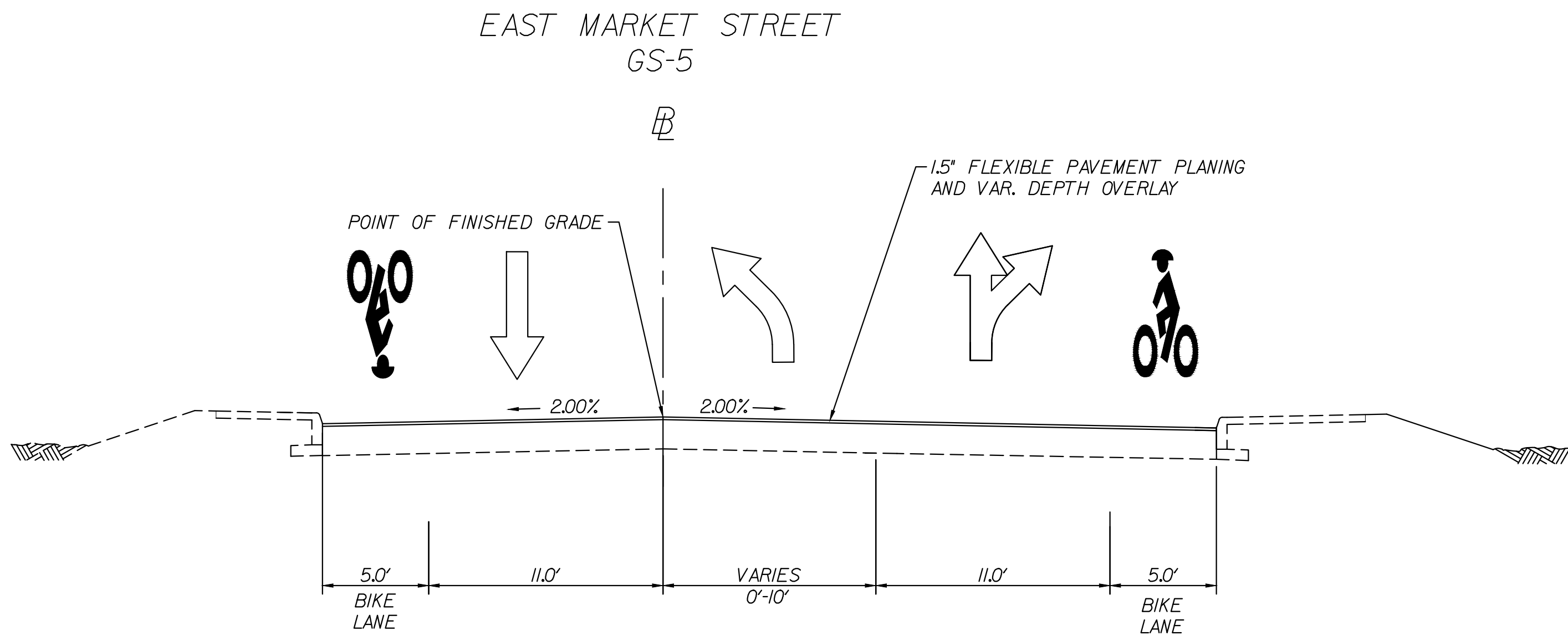
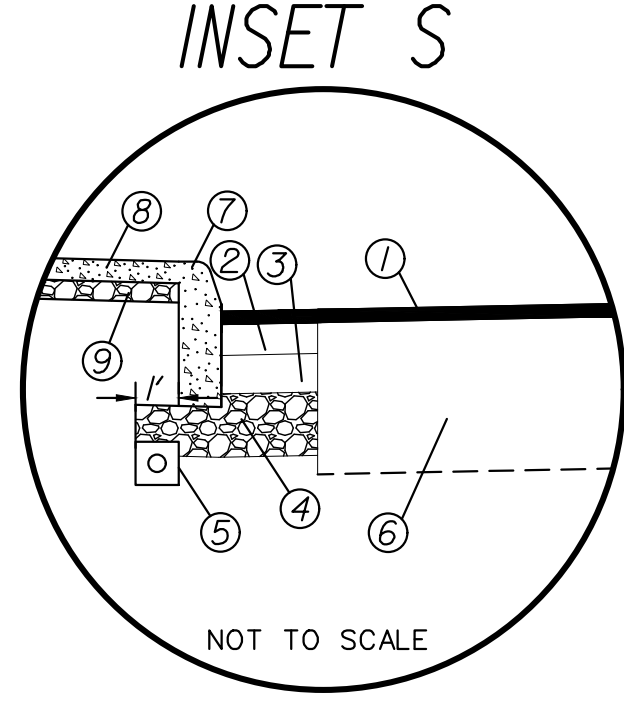
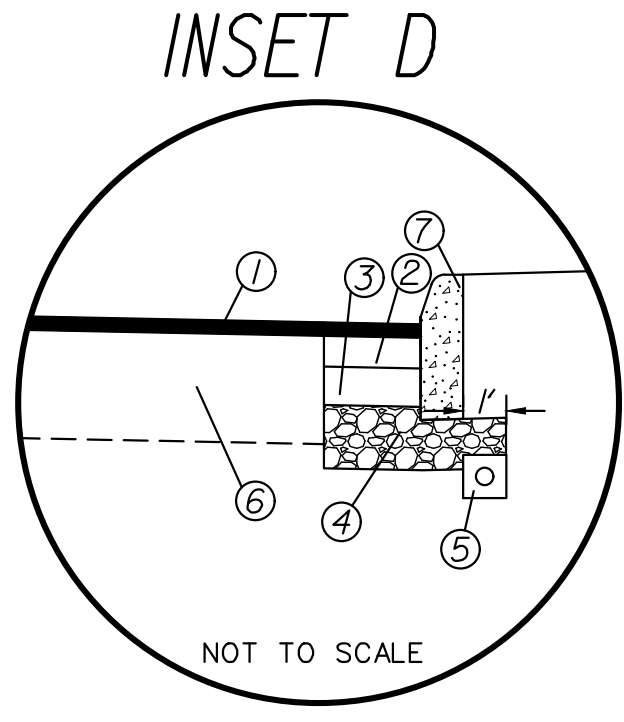
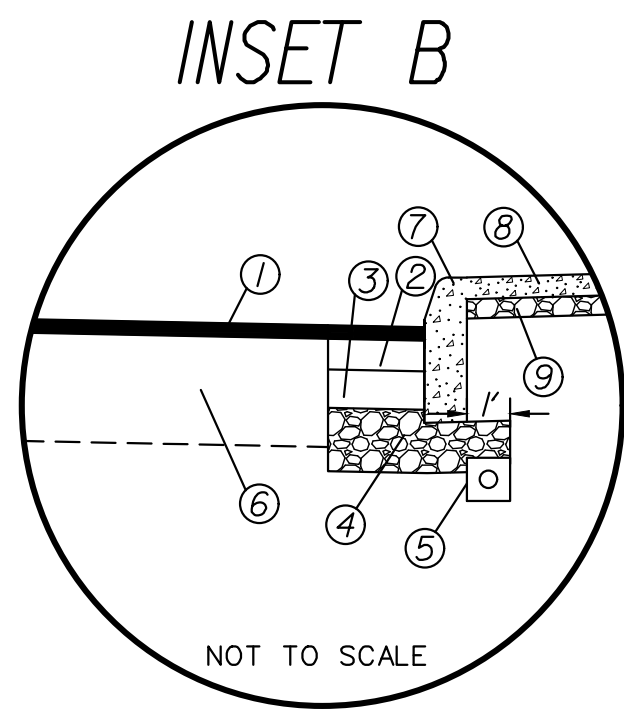
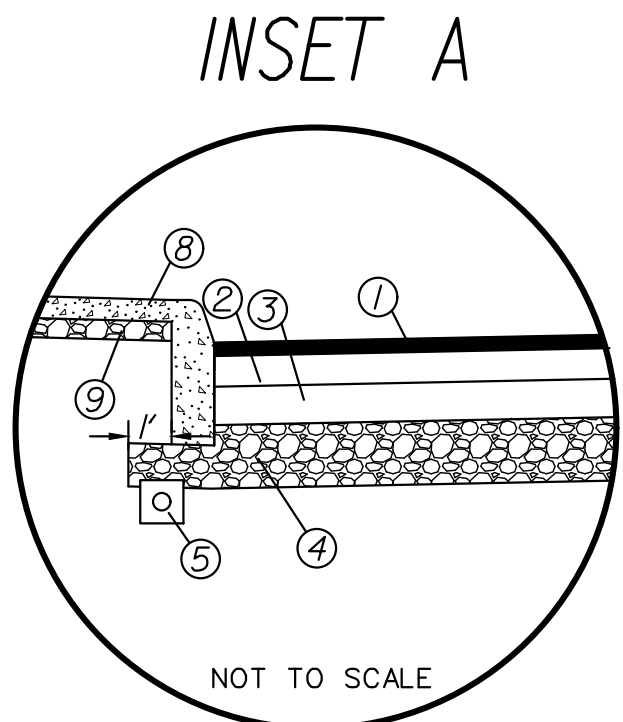
STA. 501+85.83 TO STA. 502+48.36



STA. 600+50.00 TO STA. 601+35.11



STA. 101+97.35 TO STA. 103+27.70



STA. 103+27.70 TO STA. 105+39.13

- 15" ASPHALT CONCRETE SURFACE
TYPE SM-9.5A @165 LB/SY
- X" ASPHALT CONCRETE INTERMEDIATE,
TYPE IM-19.0A @220 LB/SY
- X" ASPHALT CONCRETE BASE COURSE,
TYPE BM-25.0A
- X" AGGREGATE BASE MAT'L TYJ VDOT NO. 2IB
- MOD. UD-4 REQ'D
- EXISTING PAVEMENT SECTION
- STD. CG-2 REQ'D, CITY MIX CLASS A 3500 CONC.
- BC CITY MIX CLASS A
3500 CONC.
- 4" AGGREGATE BASE MAT'L TYJ VDOT NO. 2IB

- NOTES:
- ALL WIDENING SHALL BE CONSISTENT WITH STD. WP-2.
 - CONNECT ALL UNDERDRAINS TO DROP INLETS, UNLESS OTHERWISE DIRECTED.
 - CITY MIX CONC. SIDEWALK WILL BE PAID FOR AS STD. HYDR. CEMENT CONC. SIDEWALK.
 - CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE UNDERDRAIN DURING CURB INSTALLATION.

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

PROJECT
U000-104-298

SHEET NO.
2C

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK, 03/01/2018

Curve 9TH_4
PI = 23+39.74
DELTA = 20°57'35"(LT)
D = 06° 44' 27"
T = 157.23'
L = 310.94'
R = 850'
PC = 21+82.51
PT = 24+93.46
V = 25 MPH
e = Normal Crown

UTILITY OWNERS

Water and Sewer:
City of Charlottesville
Public Utilities Division
Department of Public Works
305 4th Street NW
Charlottesville, VA 22903
Jason McIlwee
Tel: (434) 970-3826
mclwee@charlottesville.org

Dominion Virginia Power:
Jeff Carter
1719 Hydraulic Rd
Charlottesville, VA
Tel: (434) 972-6731
Email: Jeff.Carter@dominionenergy.com

Telecomm:
Lumos Network
Cary Bowman
401 Spring Lane #300
Waynesboro, VA
Office: (540) 946-3500
bowman@lumonet.net

Comcast
Phillip Perry
324 W Main St
Charlottesville, VA 22901
Tel: (540) 769-7043
phillip.perry@comcast.com

Zayo Communications
Kris Kobylski
13861 Sunrise Valley Drive Suite 45
Herndon, VA 20171
Tel: (571) 220-4813
kris.kobylski@zayo.com

Century Link, Inc.
Theresa Bryant
417-419 W Main St
Charlottesville, VA 22901
Office: (434) 971-1371
Cell: (424) 806-6826
theresa.bryant@centurylink.com

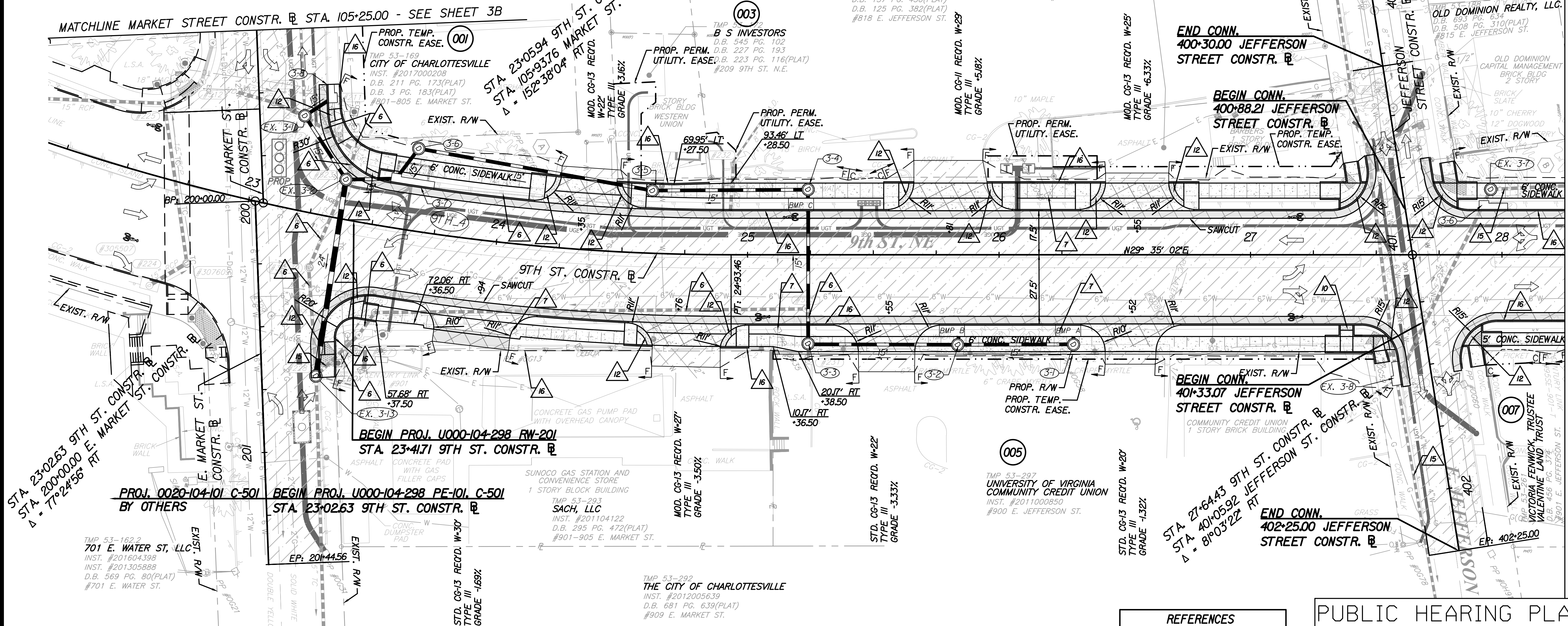
Level 3
Patrick Provost
1025 El Dorado Blvd
Broomfield, CO 80021
Tel: (720) 888-4686
patrick.provost@level3.com

Gas:
Mary Zylowski
City of Charlottesville (CC)
305 4th Street
Charlottesville, VA
Tel: (434) 970-3815
Zylowski@charlottesville.org

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 PE-101, RW-201, C-501	3

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



- LEGEND**
- PROPOSED PAVEMENT
 - PROPOSED CONCRETE
 - MILL AND OVERLAY/BUILD UP
 - DEMOLITION OF PAVEMENT
 - OBSCURING OF PAVEMENT
 - SCORED CONCRETE CROSSWALK
 - SIGNAL POLE AND FOUNDATION
 - PEDESTAL POLE AND FOUNDATION
 - DENOTES CONSTRUCTION LIMITS IN CUTS
 - DENOTES CONSTRUCTION LIMITS IN FILLS
 - NOTE: DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.
 - NOTE: DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

- STD. CG-6 REQ'D.
- STD. MS-2 W/CG-2 REQ'D.
- STD. SI-2 REQ'D.
- STD. MS-1A W/CG-2 REQ'D.
- 4" STD. HYD. CEMENT SDWK. REQ'D. - WIDTH = 5'
- EXIST. PIPE TO BE REMOVED/ABANDONED
- EXISTING UTILITY POLE TO BE REMOVED BY UTILITY OWNER
- ADJUST EXIST. UTILITY TO PROPOSED GRADE
- STD. CG-12, TYPE A REQ'D.
- STD. CG-12, TYPE C REQ'D.
- STD. CG-12, TYPE M2 REQ'D.
- STD. CG-12, TYPE B REQ'D.
- STD. FH-1 REQ'D.
- EXISTING UTILITY TO BE RELOCATED
- EXIST. PIPE TO BE CLEANED OUT
- STD. CG-2 REQ'D.

NOTES:

- CONTRACTOR SHALL RELOCATE ALL MAILBOXES WITHIN PROJECT LIMITS PER VDOT STANDARDS AND NO ADDITIONAL PAYMENT THERETO.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm & Sanitary	1E
Sewer Data	
Construction Alignment Data	1F
BMP Details	2D
9th Street & Jefferson	3A
Street Profile	
E&S Phase I Plan	3C
E&S Phase II Plan	3E
Entrance Profiles	3G
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(X)
Traffic Signal Plan	9(X)
Duct Bank Plan	1K(3)
Landscape Plan	12(3)
Utility Plan	XX

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

SCALE
0 20' 40'

PROJECT
U000-104-298

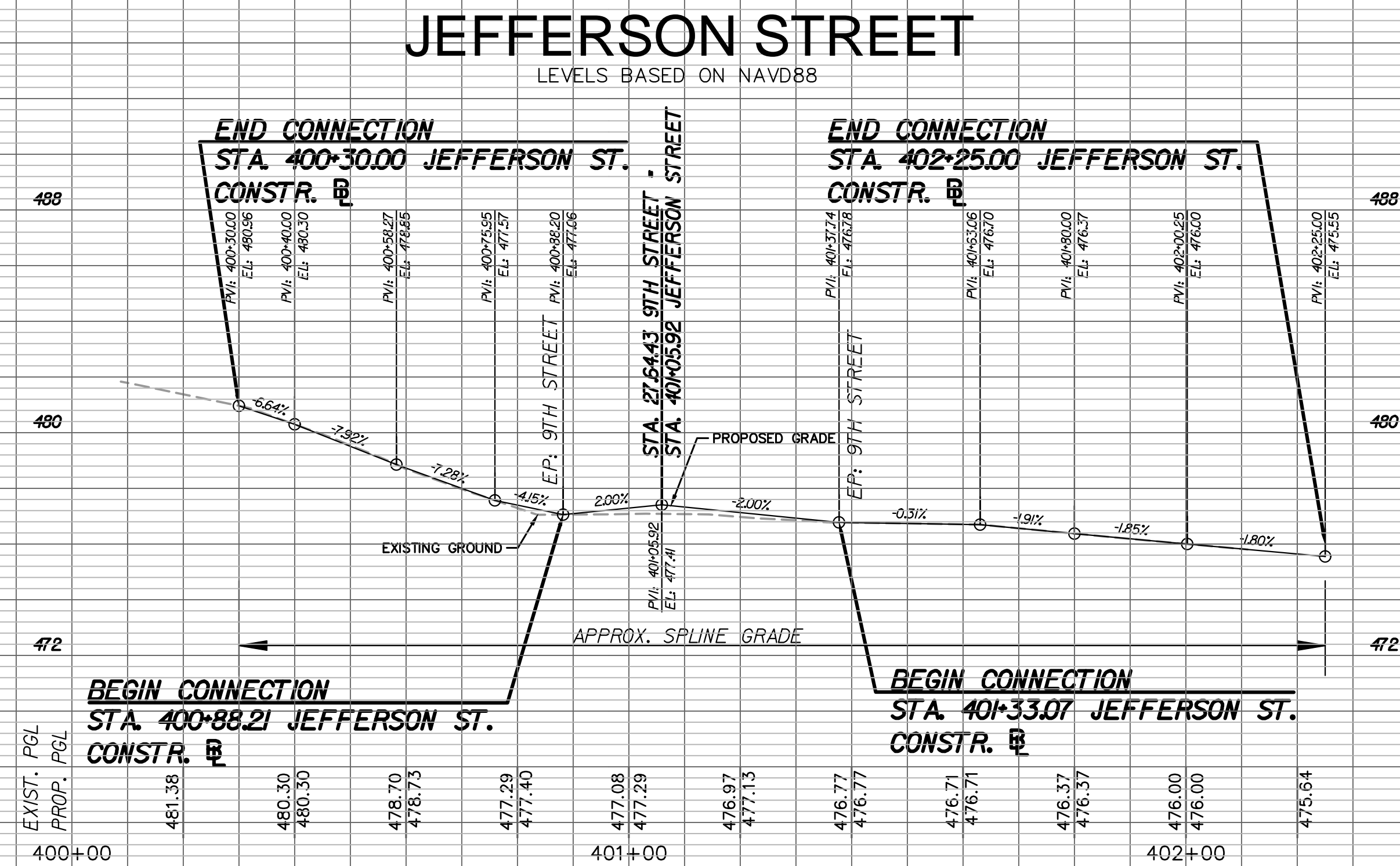
SHEET NO.
3

PROJECT MANAGER: TIM MOTSCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK, 03/01/2018

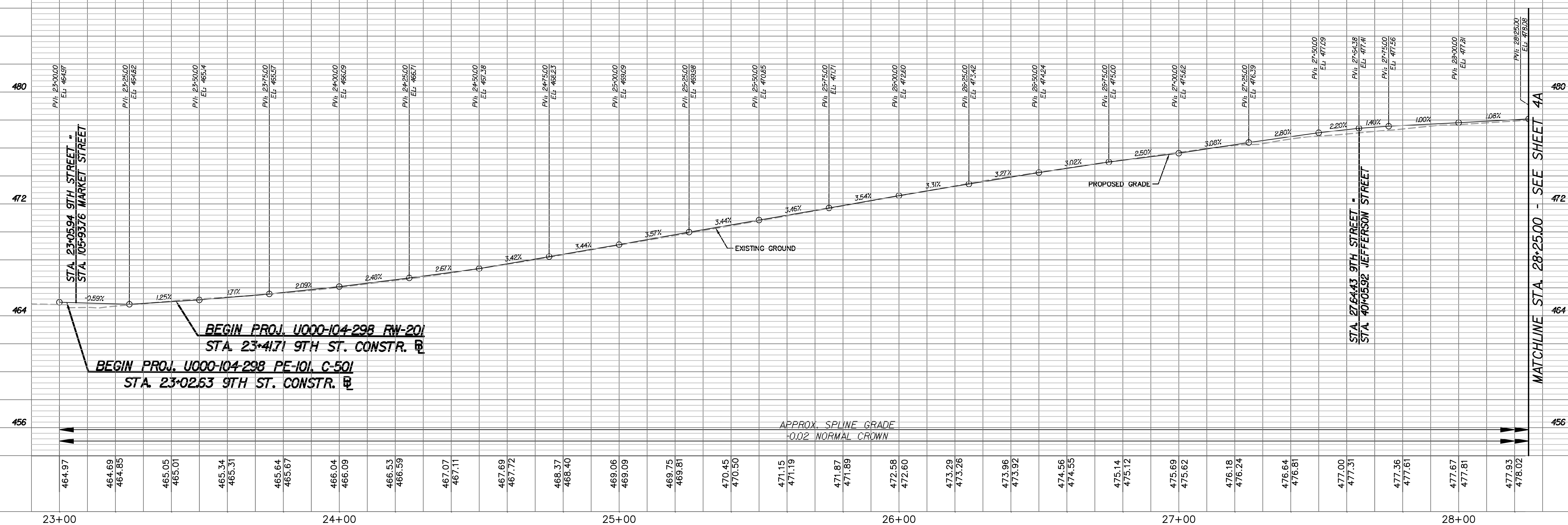
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 PE-101, RW-201, C-501	3A

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



9TH STREET (BUSINESS 250)
LEVELS BASED ON NAVD88



October 25, 2017 5:20 PM Brian, Anya
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VERT: 1" = 4'
HORIZ: 1" = 20'

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK, 03/01/2018

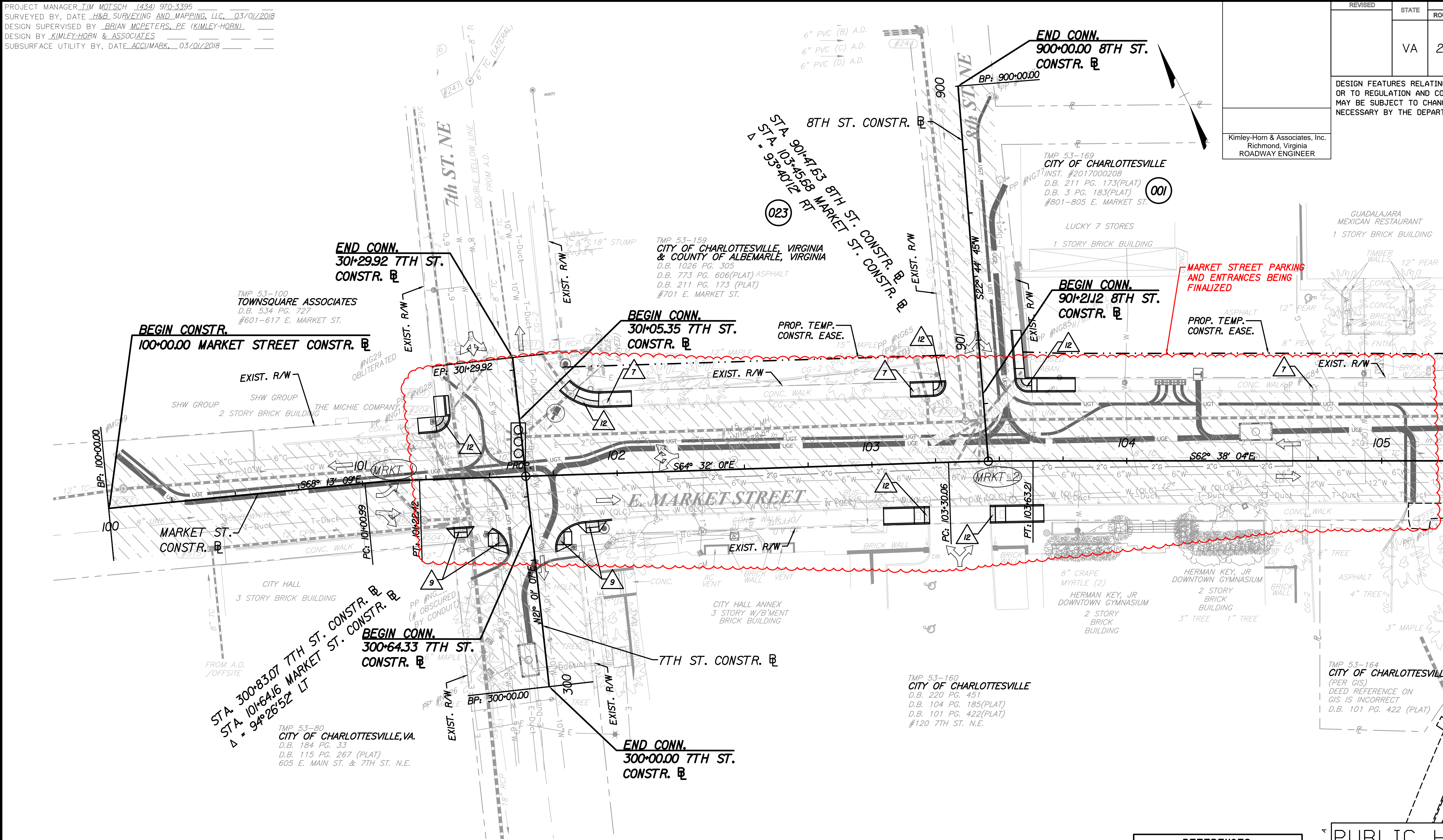
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	3B

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

Curve MKRT 1
PI = 101+11.70
DELTA = 03°41'09"(RT)
D = 17°12'22"
T = 107.7
L = 21.42
R = 333
PC = 101+00.99
PT = 101+22.42
V = 25 MPH
e = Normal Crown

Curve MKRT 2
PI = 103+46.63
DELTA = 05°53'56"(RT)
D = 05°43'47"
T = 16.57
L = 33.442
R = 1000
PC = 103+30.06
PT = 103+63.21
V = 25 MPH
e = Normal Crown



LEGEND

- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- MILL AND OVERLAY/BUILD UP
- DEMOLITION OF PAVEMENT
- OBSCURING OF PAVEMENT
- SCORED CONCRETE CROSSWALK

- SIGNAL POLE AND FOUNDATION
- PEDESTAL POLE AND FOUNDATION

--- DENOTES CONSTRUCTION LIMITS IN CUTS
--- DENOTES CONSTRUCTION LIMITS IN FILLS
NOTE: DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.
NOTE: DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

- STD. CG-6 REQ'D.
- STD. MS-2 W/CG-2 REQ'D.
- STD. SI-2 REQ'D.
- STD. MS-1A W/CG-2 REQ'D.
- 4" STD. HYD. CEMENT SDWK. REQ'D. - WIDTH = 5'
- EXIST. PIPE TO BE REMOVED/ABANDONED
- EXISTING UTILITY POLE TO BE REMOVED BY UTILITY OWNER
- ADJUST EXIST. UTILITY TO PROPOSED GRADE
- STD. CG-12, TYPE A REQ'D.
- STD. CG-12, TYPE C REQ'D.
- STD. CG-12, TYPE M2 REQ'D.
- STD. CG-12, TYPE B REQ'D.
- STD. FH-1 REQ'D.
- EXISTING UTILITY TO BE RELOCATED
- EXIST. PIPE TO BE CLEANED OUT
- STD. CG-2 REQ'D.

NOTES:
1. SEE SHEET 3 FOR UTILITY OWNERS.
2. CONTRACTOR SHALL RELOCATE ALL MAILBOXES WITHIN PROJECT LIMITS PER VDOT STANDARDS AND NO ADDITIONAL PAYMENT THERETO.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm & Sanitary	IE
Sewer Data	
Construction Alignment Data	IF
E&S Phase I Plan	3D
E&S Phase II Plan	3F
Entrance Profiles	3G
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(3B)
Duct Bank Plan	11(3B)
Landscape Plan	12(3B)
Utility Plan	XX

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

SCALE
0 20' 40'

PROJECT
U000-104-298
SHEET NO.
3B

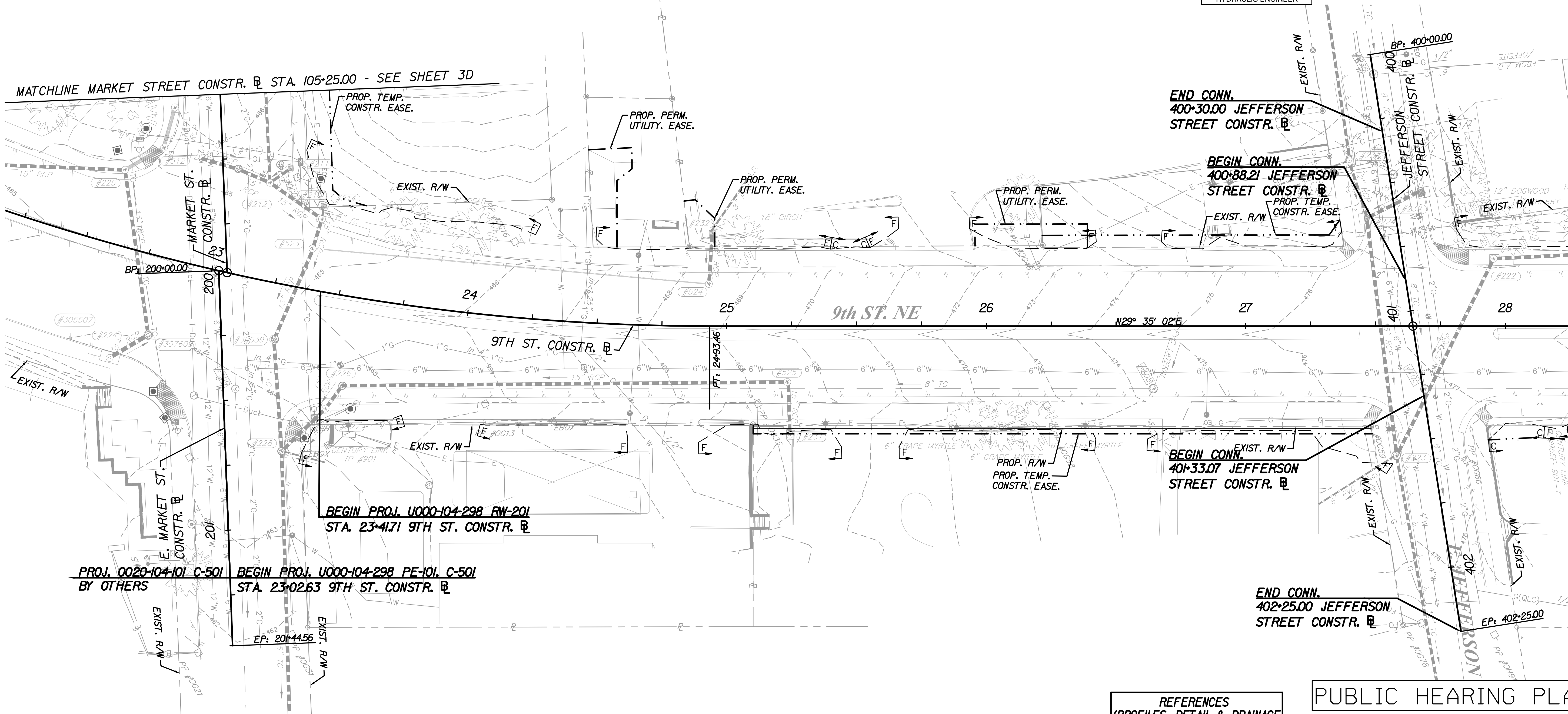
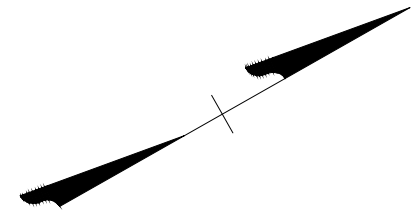
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

THIS SHEET FOR PHASE I
E&S CONTROL ONLY

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	3C

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
HYDRAULIC ENGINEER



EROSION AND SEDIMENT CONTROL LEGEND:

- EC-2 Denotes Protective Covering, St'd. EC-2
- TSF-A Denotes Temporary Silt Fence, St'd. EC-5 Type A or B
- TSF-B
- CP Denotes Culvert Inlet Protection, Type C; St'd. EC-6
- RCD-1 Denotes Rock Check Dam, Type I; St'd. EC-4
- RCD-2 Denotes Rock Check Dam, Type II; St'd. EC-4
- IP-A Denotes Inlet Protection, Type A; St'd. EC-6
- IP-B Denotes Inlet Protection, Type B; St'd. EC-6
- SF Denotes Safety Fence

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	1B
Existing Storm & Sanitary Sewer Data	1E
Construction Alignment Data	1F
BMP Details	2D
Roadway Plan	3
9th Street & Jefferson Street Profile	3A
E&S Phase II Plan	3E
Entrance Profiles	3G
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(3)
Traffic Signal Plan	9(3)
Duct Bank Plan	11(3)
Landscape Plan	12(3)
Utility Plan	XX

PUBLIC HEARING PLANS

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ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED



PROJECT
U000-104-298

SHEET NO.
3C

October 25, 2017 5:20 PM: Blair, Alysa
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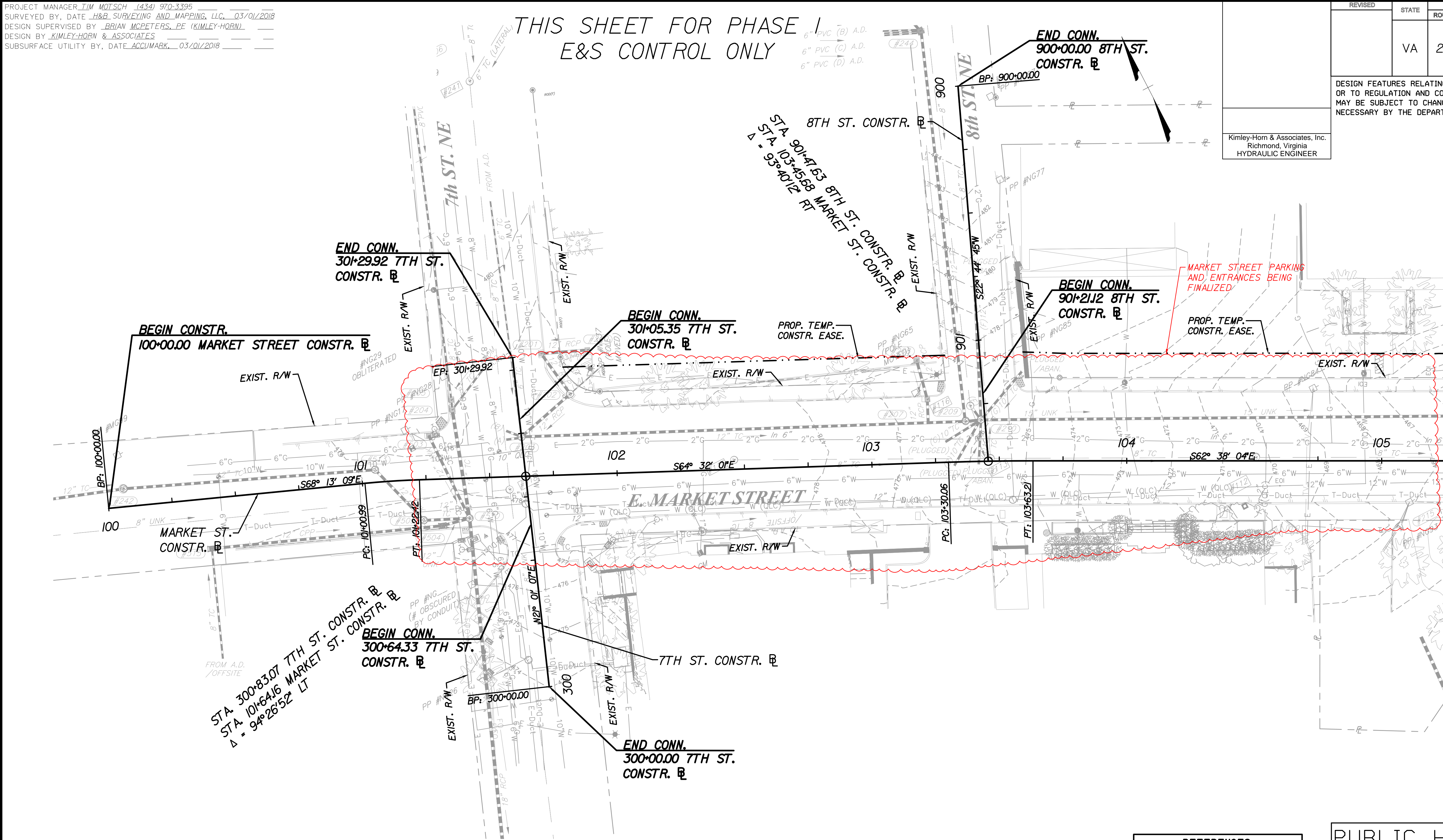
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

THIS SHEET FOR PHASE I
E&S CONTROL ONLY

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	3D

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
HYDRAULIC ENGINEER



MATCHLINE 9TH STREET CONSTR. @ STA. 105+25.00 - SEE SHEET 3C

EROSION AND SEDIMENT CONTROL LEGEND:

- EC-2 Denotes Protective Covering, St'd. EC-2
- TSF-A Denotes Temporary Silt Fence, St'd EC-5 Type A or B
- TSF-B
- CP Denotes Culvert Inlet Protection, Type C; St'd EC-6
- RCD-1 Denotes Rock Check Dam, Type I; St'd EC-4
- RCD-2 Denotes Rock Check Dam, Type II; St'd EC-4
- IP-A Denotes Inlet Protection, Type A; St'd EC-6
- IP-B Denotes Inlet Protection, Type B; St'd EC-6
- SF Denotes Safety Fence

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IB
Existing Storm & Sanitary	IE
Sewer Data	
Construction Alignment Data	IF
Roadway Plan	3B
E&S Phase II Plan	3F
Lighting Plan	8(3B)
Duct Bank Plan	11(3B)
Landscape Plan	12(3B)
Utility Plan	XX

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED



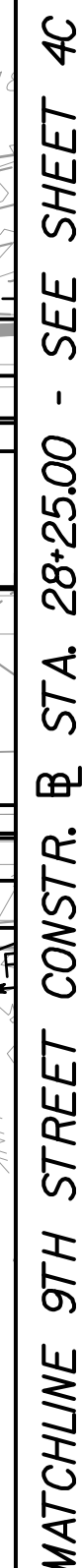
PROJECT
U000-104-298

SHEET NO.
3D

October 25, 2017 5:20 PM Brian, Aynoa
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THIS SHEET FOR PHASE 2
E&S CONTROL ONLY

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT




	EC-2	Denotes Protective Covering, St'd. EC-2
	TSF-A	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
	TSF-B	
	CIP	Denotes Culvert Inlet Protection, Type C; St'd EC-6
	RCD-1	Denotes Rock Check Dam, Type I; St'd EC-4
	RCD-2	Denotes Rock Check Dam, Type II; St'd EC-4
	IP-A	Denotes Inlet Protection, Type A; St'd EC-6
	IP-B	Denotes Inlet Protection, Type B; St'd EC-6
	SAF	Denotes Safety Fence

Survey Alignment Data	1B
Existing Storm & Sanitary	1E
Sewer Data	
Construction Alignment Data	1F
BMP Details	2D
Roadway Plan	3
9th Street & Jefferson	3A
Street Profile	
E&S Phase I Plan	3C
Entrance Profiles	3G
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(3)
Traffic Signal Plan	9(3)
Duct Bank Plan	11(3)
Landscape Plan	12(3)
Utility Plan	XX

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

SCALE

A horizontal scale bar with a white background and a black border. It is divided into two equal segments by a vertical line. The left segment is white, and the right segment is black. Above the bar, the word "SCALE" is written in black. Below the bar, the numbers "0", "20'", and "40'" are written at the left, middle, and right ends respectively.

PROJECT	SHEET NO
U000-104-298	3E

October 25, 2017 5:20 PM Bord, Alysa

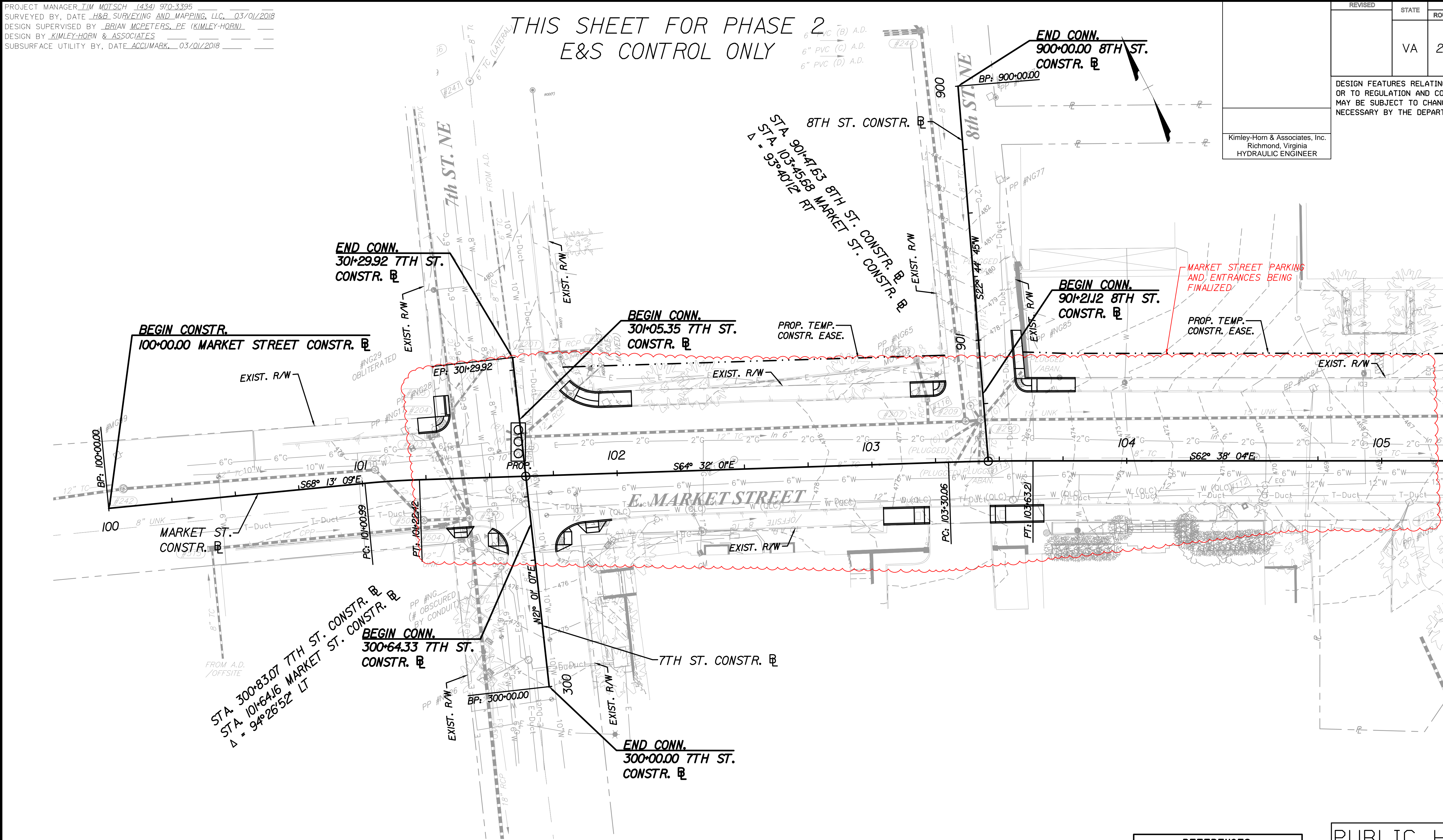
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

THIS SHEET FOR PHASE 2
E&S CONTROL ONLY

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	3F

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
HYDRAULIC ENGINEER



EROSION AND SEDIMENT CONTROL LEGEND:

- EC-2 Denotes Protective Covering, St'd. EC-2
- TSF-A Denotes Temporary Silt Fence, St'd. EC-5 Type A or B
- TSF-B
- CP Denotes Culvert Inlet Protection, Type C; St'd EC-6
- RCD-1 Denotes Rock Check Dam, Type I; St'd EC-4
- RCD-2 Denotes Rock Check Dam, Type II; St'd EC-4
- IP-A Denotes Inlet Protection, Type A; St'd EC-6
- IP-B Denotes Inlet Protection, Type B; St'd EC-6
- SF Denotes Safety Fence

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IB
Existing Storm & Sanitary	IE
Sewer Data	
Construction Alignment Data	IF
Roadway Plan	3B
E&S Phase I Plan	3D
Lighting Plan	8(3B)
Duct Bank Plan	11(3B)
Landscape Plan	12(3B)
Utility Plan	XX

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED



PROJECT
U000-104-298

SHEET NO.
3F

October 25, 2017 5:20 PM Brian, Alyssa
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PROJECT MANAGER: TIM MOTTSCHE (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

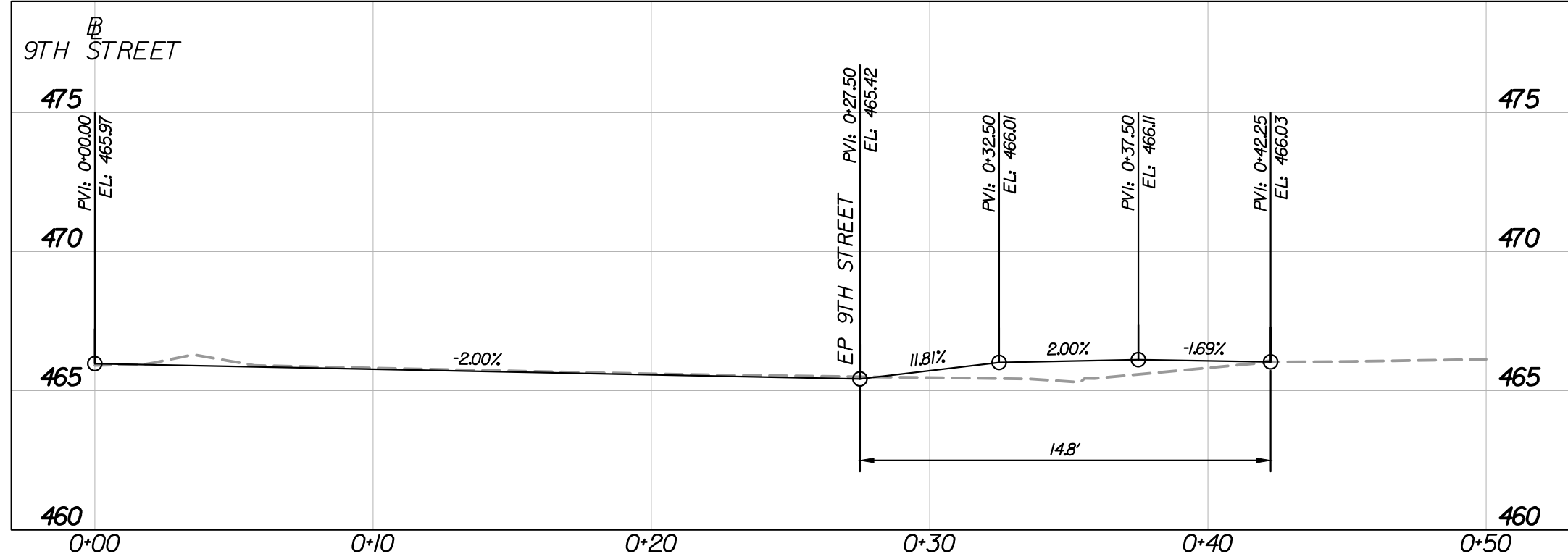
ENTRANCE PROFILES

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	36

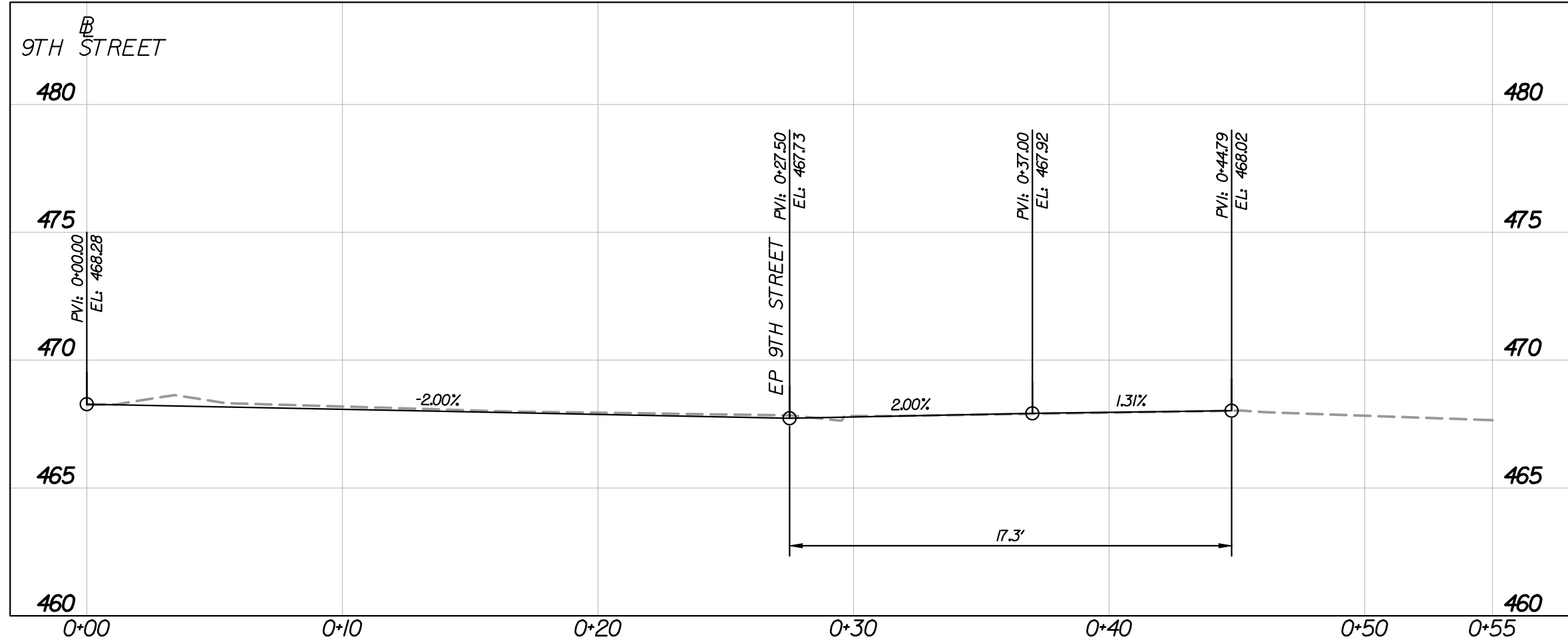
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

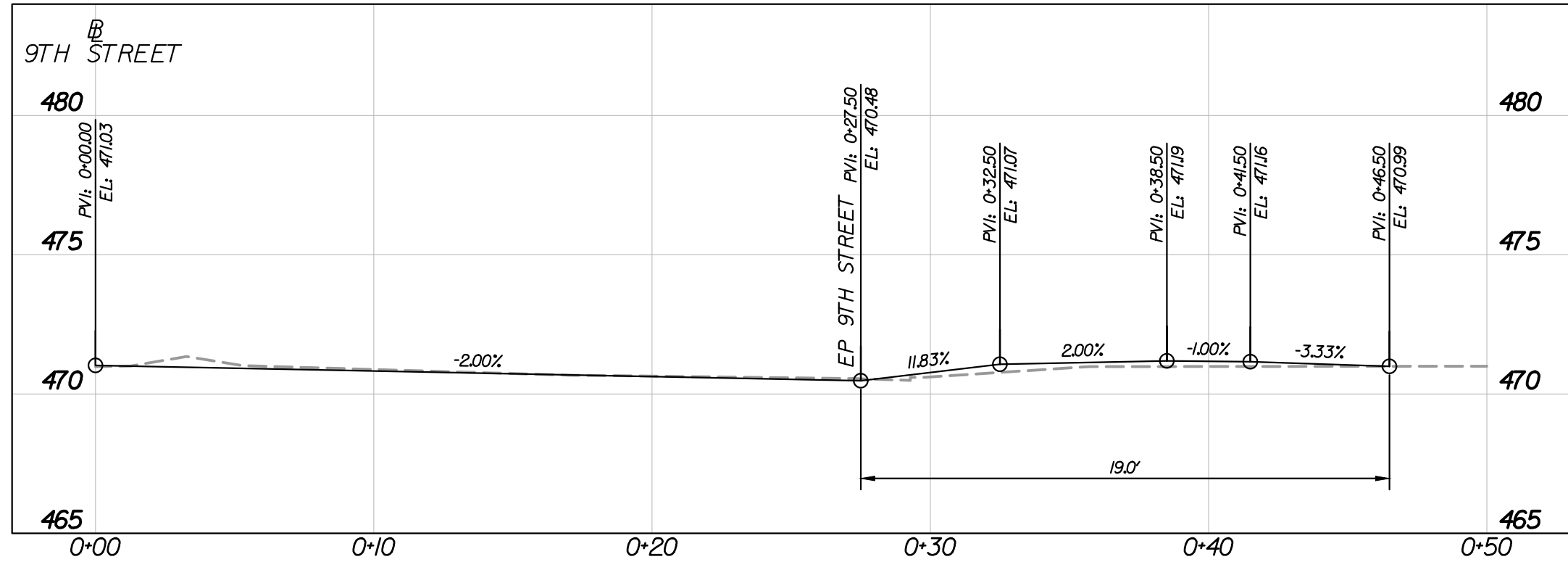
ENTR. RT. STA. 23+94 9TH ST.



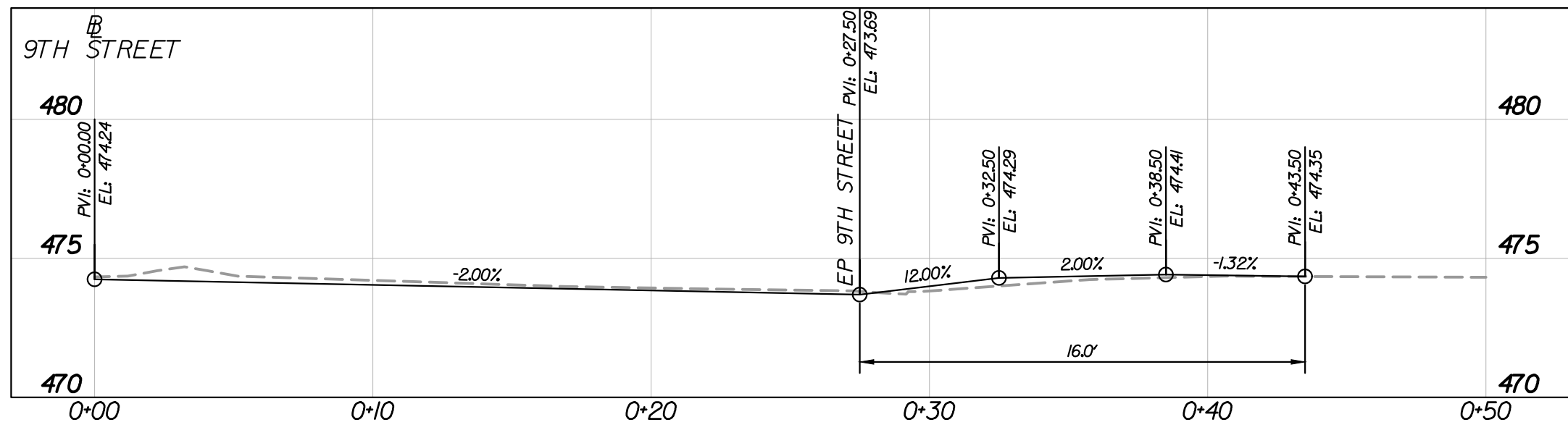
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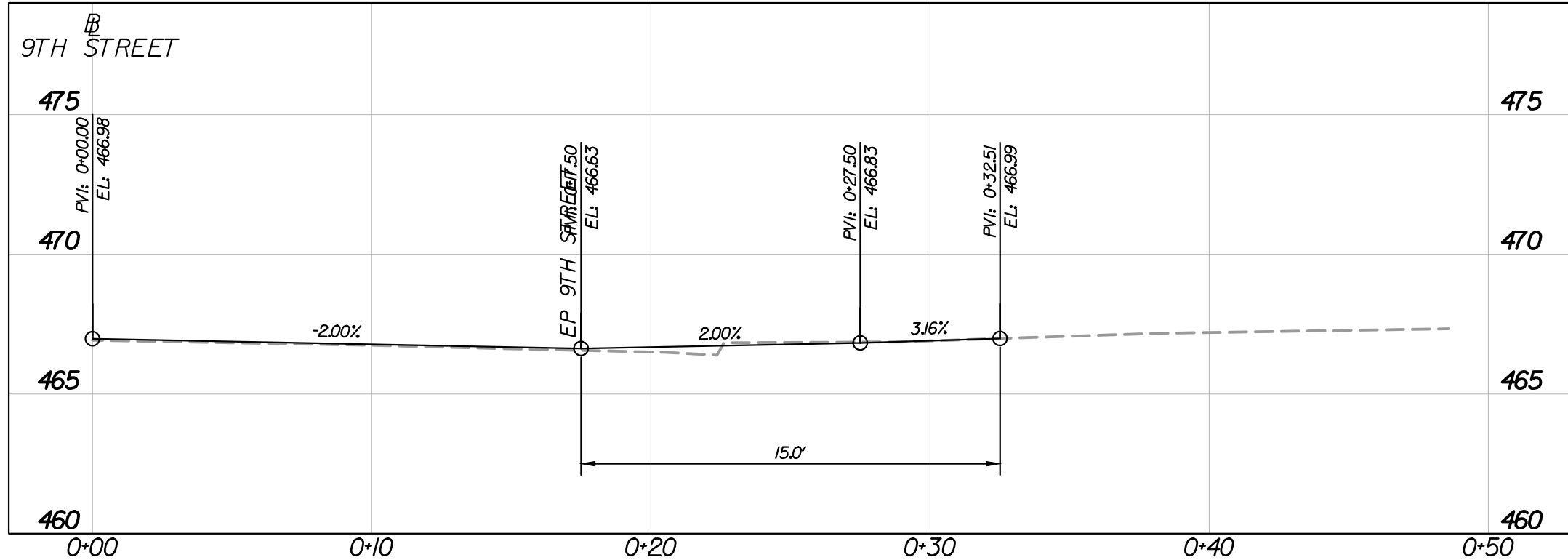
ENTR. RT. STA. 25+55 9TH ST.



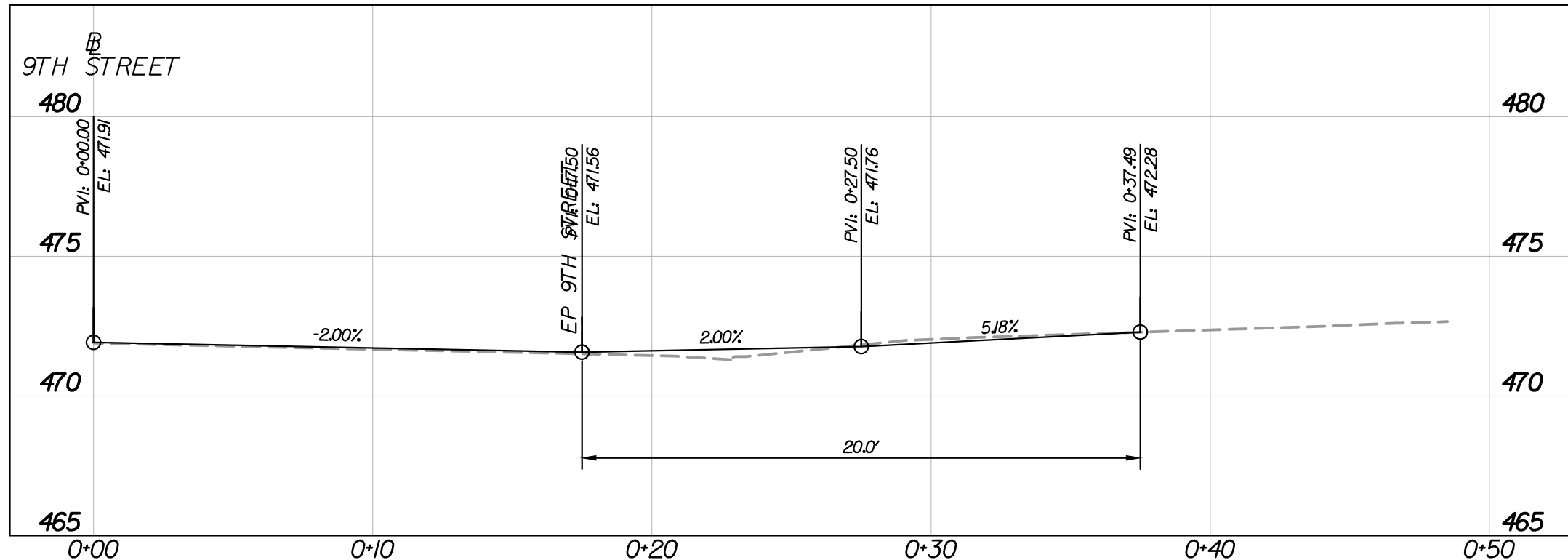
ENTR. RT. STA. 26+52 9TH ST.



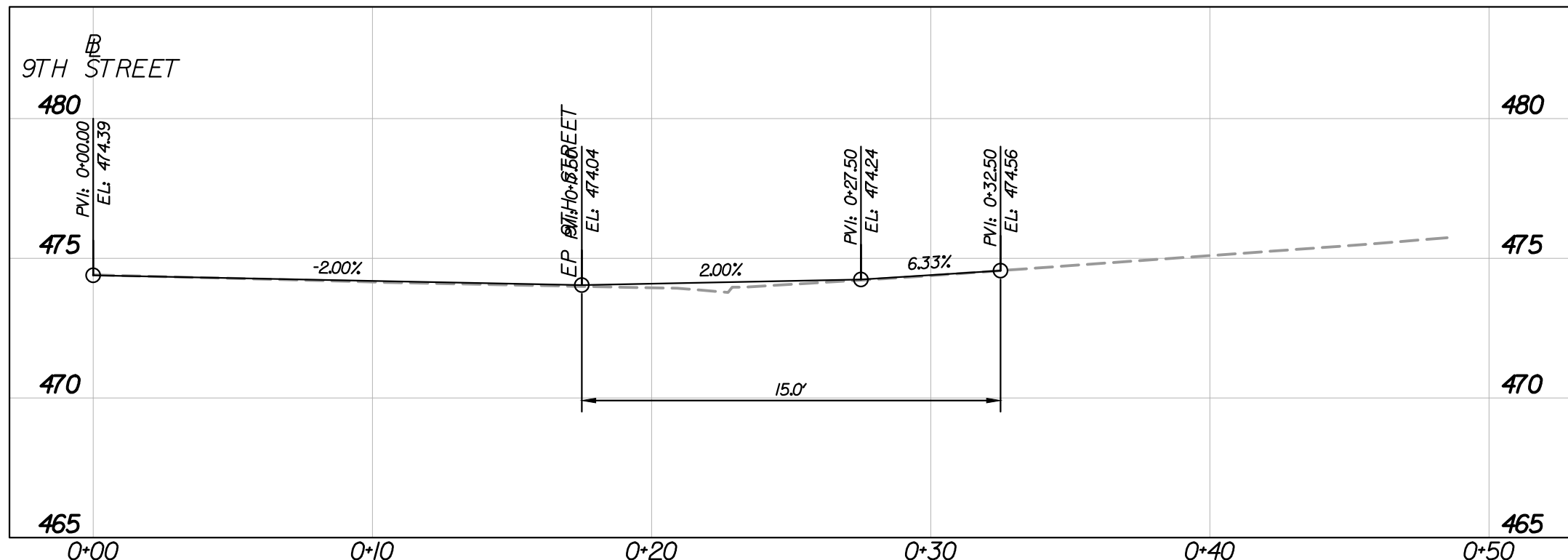
ENTR. LT. STA. 24+35 9TH ST.



ENTR. LT. STA. 25+81 9TH ST.



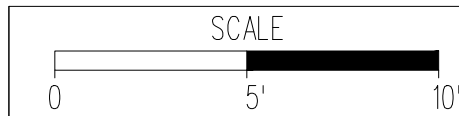
ENTR. LT. STA. 26+55 9TH ST.



PUBLIC HEARING PLANS

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ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED



PROJECT
U000-104-298

SHEET NO.
36

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY: DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE: ACCUMARK, 03/01/2018

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 RW-201, C-501	4

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

Curve 9TH-5
PI = 30+98.43
DELTA = 55°05'14"(RT)
D = 25°27'54"
T = 117.35'
L = 216.33'
R = 225'
PC = 29+81.08
PT = 31+97.41
V = 25 MPH
e = Normal Crown

Curve LEX-J
PI = 600+628.3
DELTA = 49°05'07"(RT)
D = 143°14'24"
T = 18.27'
L = 34.27'
R = 40'
PC = 600+44.56
PT = 600+78.83
V = 25 MPH
e = Normal Crown

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

ID	
1D	Survey Alignment Data
1E	Existing Storm & Sanitary Sewer Data
1F	Construction Alignment Data
4A	9th Street Profile
4A	E. High Street Profile
4A	Lexington Avenue Profile
4A	9.5 Street Profile
4B	E&S Phase I Plan
4C	E&S Phase II Plan
4D	Entrance Profiles
XX	Drainage Descriptions
XX	Storm Profiles
8(4)	Lighting Plan
9(3)	Traffic Signal Plan
11(4)	Duct Bank Plan
12(4)	Landscape Plan
XX	Utility Plan

SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	4

- LEGEND**
- PROPOSED PAVEMENT
 - PROPOSED CONCRETE
 - MILL AND OVERLAY/BUILD UP
 - DEMOLITION OF PAVEMENT
 - OBSCURING OF PAVEMENT
 - SCORED CONCRETE CROSSWALK

- SIGNAL POLE AND FOUNDATION
- PEDESTAL POLE AND FOUNDATION

- STD. CG-6 REQ'D.
- STD. MS-2 W/CG-2 REQ'D.
- STD. SI-2 REQ'D.
- STD. MS-1A W/CG-2 REQ'D.
- 4" STD. HYD. CEMENT SDWK. REQ'D. - WIDTH = 5'
- EXIST. PIPE TO BE REMOVED/ABANDONED
- EXISTING UTILITY POLE TO BE REMOVED BY UTILITY OWNER
- ADJUST EXIST. UTILITY TO PROPOSED GRADE
- STD. CG-12, TYPE A REQ'D.
- STD. CG-12, TYPE C REQ'D.
- STD. CG-12, TYPE M2 REQ'D.
- STD. CG-12, TYPE B REQ'D.
- STD. FH-1 REQ'D.
- EXISTING UTILITY TO BE RELOCATED
- EXIST. PIPE TO BE CLEANED OUT
- STD. CG-2 REQ'D.

NOTES:
1. SEE SHEET 3 FOR UTILITY OWNERS.
2. CONTRACTOR SHALL RELOCATE ALL MAILBOXES WITHIN PROJECT LIMITS PER VDOT STANDARDS AND NO ADDITIONAL PAYMENT THERETO.

October 25, 2017 5:20 PM
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K:\VIC_ROWY\113003004_E_High_Street\SCAPE\CADD\SheetSet\ROADWAY PLAN.DWG, Layout:4 ROADWAY PLAN

PROJECT MANAGER: TIM MOTTSCHE (434) 970-3395
SURVEYED BY: DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE: ACCUMARK, 03/01/2018

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	4A

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

9 1/2 STREET
LEVELS BASED ON NAVD88

EAST HIGH STREET
LEVELS BASED ON NAVD88

END CONNECTION
STA. 501+87.56 E. HIGH ST.
CONSTR.

BEGIN CONNECTION
STA. 502+63.27 E. HIGH ST.
CONSTR.

LEXINGTON AVENUE
LEVELS BASED ON NAVD88

BEGIN CONNECTION
STA. 600+17.97 LEXINGTON AVE.
CONSTR.

END CONNECTION
STA. 601+35.11 LEXINGTON AVE.
CONSTR.

END CONNECTION
STA. 700+00.00 9 1/2 ST.
CONSTR.

BEGIN CONNECTION
STA. 701+86.72 9 1/2 ST.
CONSTR.

9TH STREET (BUSINESS 250)
LEVELS BASED ON NAVD88

MATCHLINE STA. 28+25.00 - SEE SHEET 3A

STA. 29+36.15 9TH STREET -
STA. 500+00.00 E. HIGH STREET

STA. 31+37.55 9TH STREET -
STA. 600+00.00 LEXINGTON AVENUE

STA. 33+28.20 9TH STREET -
STA. 700+99.95 9 1/2 STREET

MATCHLINE STA. 33+50.00 - SEE SHEET 5A

VERT: 1" = 4'
HORIZ: 1" = 20'

EXIST. PGL
PROP. PGL

October 25, 2017 5:20 PM Brian, Anya
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K:\VIRG_ROWY\113003004_E_High_Street\SCAPE\CAAD\SheetSet\ROADWAY PROFILE.DWG, Layout 4A - ROADWAY PROFILE

PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	4B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
HYDRAULIC ENGINEER

THIS SHEET FOR PHASE I
E&S CONTROL ONLY

MATCHLINE 9TH STREET CONSTR. E. STA. 28+25.00 - SEE SHEET 3C

BEGIN CONN.
502+63.27 E. HIGH STREET
CONSTR. E.

END CONN.
501+87.56 E. HIGH
STREET CONSTR. E.

END CONN.
601+35.11 LEXINGTON AVENUE CONSTR
EXIST. R/W

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

EROSION AND SEDIMENT CONTROL LEGEND:

- | | | |
|--|-------|---|
| | EC-2 | Denotes Protective Covering, St'd. EC-2 |
| | TSF-A | Denotes Temporary Silt Fence, St'd EC-5 Type A or B |
| | TSF-B | |
| | | Denotes Culvert Inlet Protection, Type C; St'd EC-6 |
| | RCD-1 | Denotes Rock Check Dam, Type I; St'd EC-4 |
| | RCD-2 | Denotes Rock Check Dam, Type II; St'd EC-4 |
| | IP-A | Denotes Inlet Protection, Type A; St'd EC-6 |
| | IP-B | Denotes Inlet Protection, Type B; St'd EC-6 |
| | SF | Denotes Safety Fence |

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IB
Existing Storm & Sanitary Sewer Data	IE
Construction Alignment Data	IF
Roadway Plan	
9th Street Profile	4A
E. High Street Profile	4A
Lexington Avenue Profile	4A
9.5 Street Profile	4A
E&S Phase II Plan	4C
Entrance Profiles	4D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(4)
Traffic Signal Plan	9(3)
Duct Bank Plan	11(4)
Landscape Plan	12(4)
Utility Plan	XX



PROJECT
U000-104-298

SHEET NO.
4B

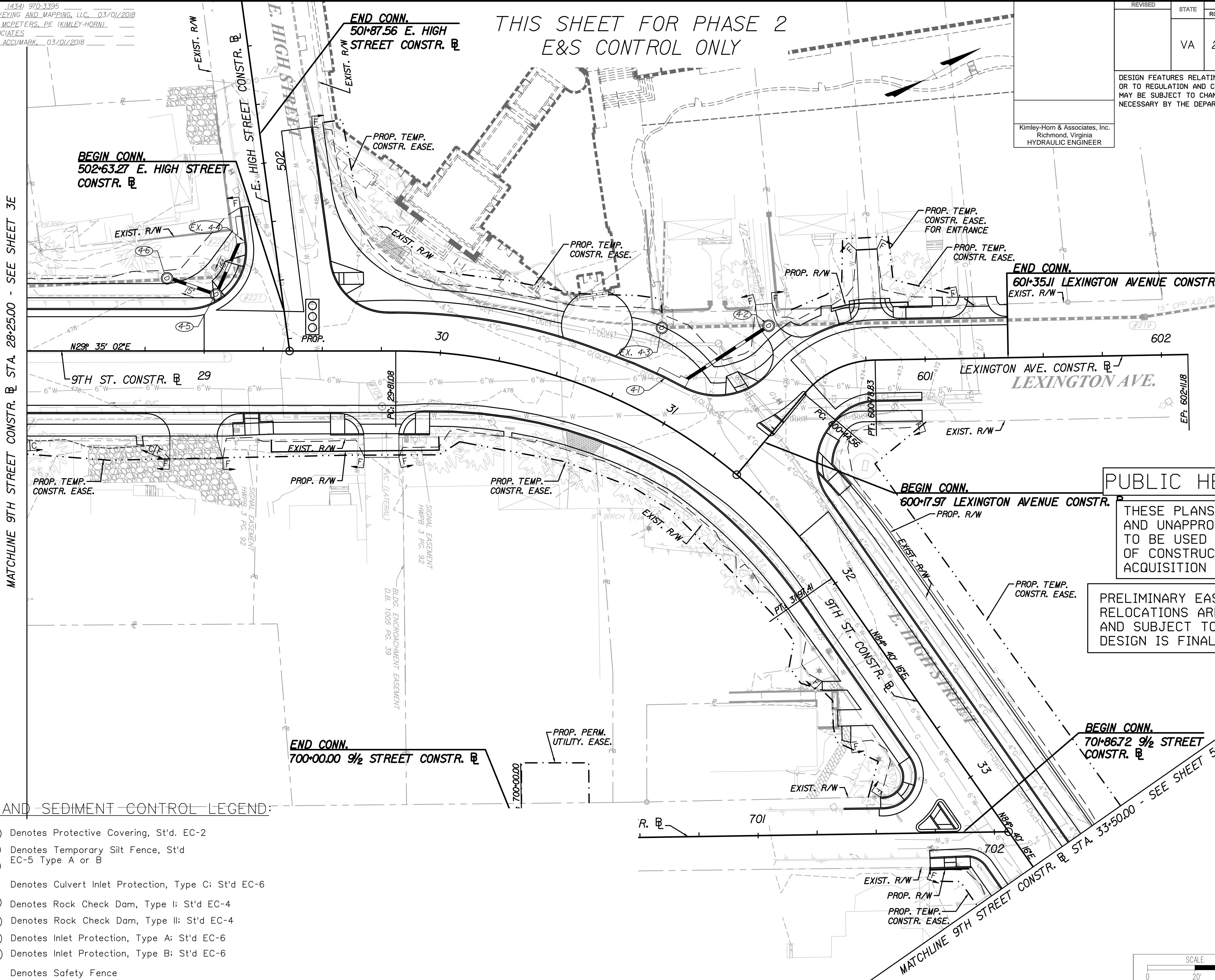
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA	20	U000-104-298 C-501	4C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
HYDRAULIC ENGINEER

THIS SHEET FOR PHASE 2
E&S CONTROL ONLY



PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

EROSION AND SEDIMENT CONTROL LEGEND:

- EC-2 Denotes Protective Covering, St'd. EC-2
- TSF-A Denotes Temporary Silt Fence, St'd EC-5 Type A or B
- TSF-B
- CP Denotes Culvert Inlet Protection, Type C; St'd EC-6
- RCD-1 Denotes Rock Check Dam, Type I; St'd EC-4
- RCD-2 Denotes Rock Check Dam, Type II; St'd EC-4
- IP-A Denotes Inlet Protection, Type A; St'd EC-6
- IP-B Denotes Inlet Protection, Type B; St'd EC-6
- SF Denotes Safety Fence

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Alignment Data	1B
Existing Storm & Sanitary Sewer Data	1E
Construction Alignment Data	1F
Roadway Plan	4
9th Street Profile	4A
E. High Street Profile	4A
Lexington Avenue Profile	4A
9.5 Street Profile	4A
E&S Phase I Plan	4B
Entrance Profiles	4D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(4)
Traffic Signal Plan	9(3)
Duct Bank Plan	11(4)
Landscape Plan	12(4)
Utility Plan	XX

SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	4C

October 25, 2017 5:20 PM Brian, Aiyana
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K:\VIC_ROW\Y113003004_E_High_Street\SCAPE\CADD\SheetSet\PHASE II E&S\DWG/Layout/4C PHASE II E&S

PROJECT MANAGER TIM MOTSCH (434) 970-3395
SURVEYED BY, DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE ACCUMARK, 03/01/2018

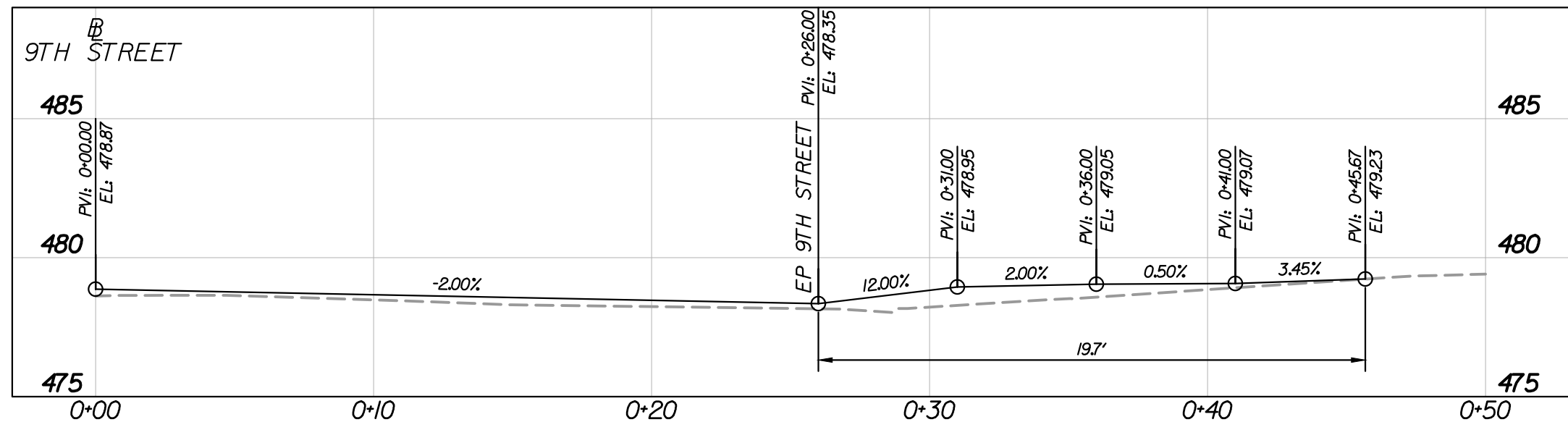
ENTRANCE PROFILES

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	4D

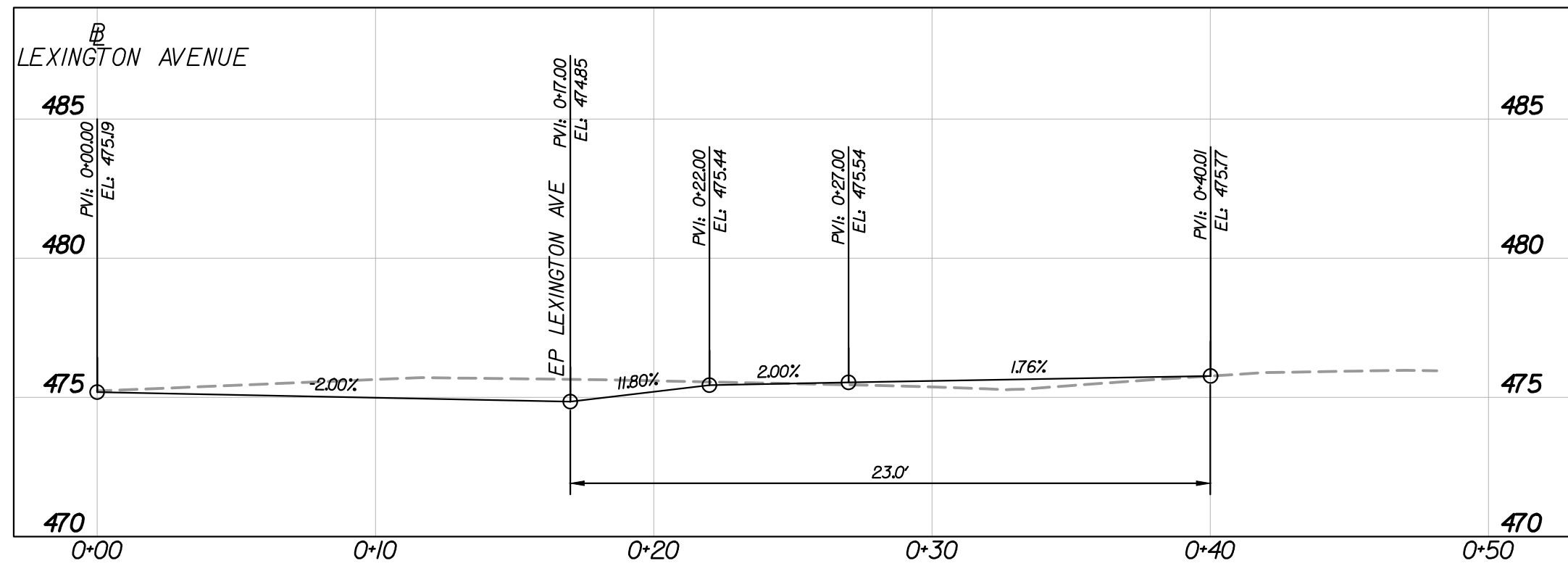
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

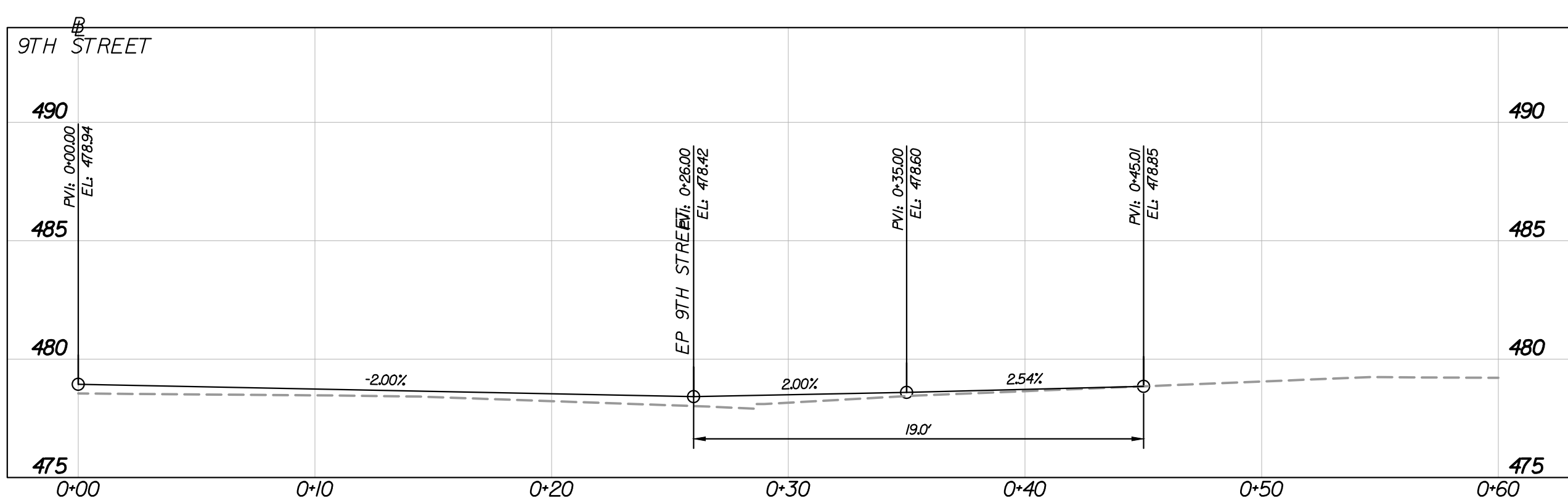
ENTR. RT. STA. 28+95 9TH ST.



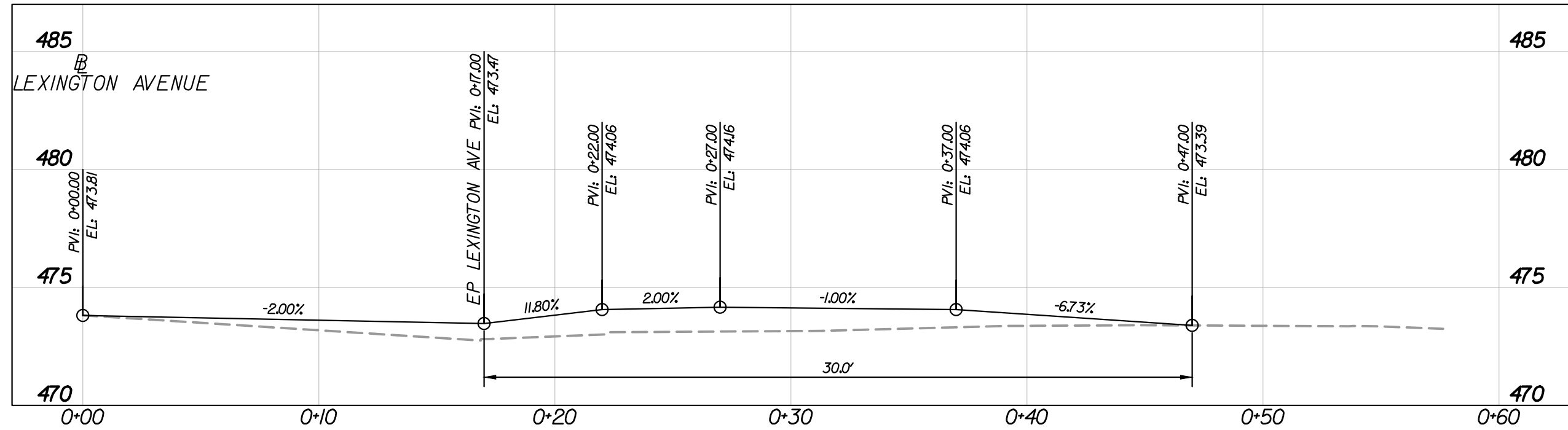
ENTR. LT. STA. 600+51 LEXINGTON AVENUE



ENTR. RT. STA. 29+75 9TH ST.



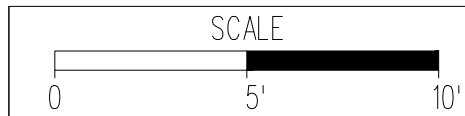
ENTR. LT. STA. 600+78 LEXINGTON AVENUE



PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED



PROJECT
U000-104-298

SHEET NO.
4D

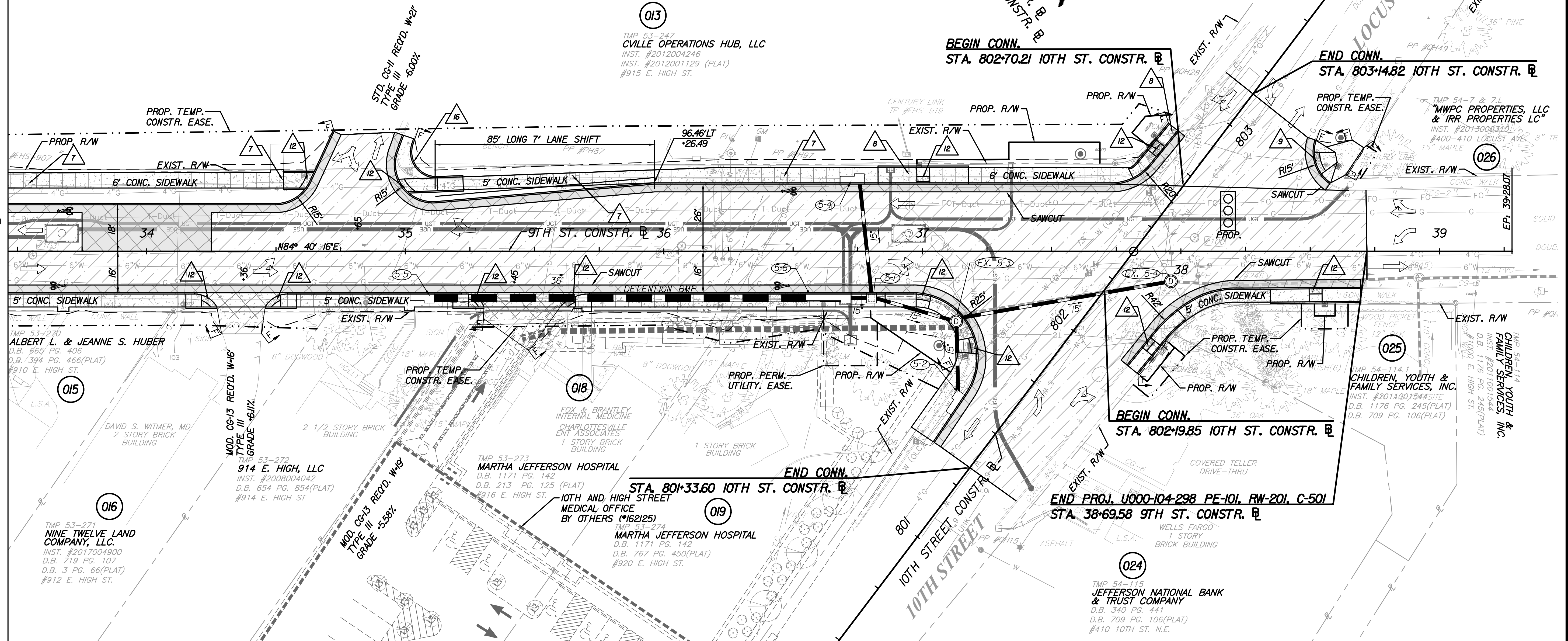
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 PE-101, RW-201, C-501	5

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

MATCHLINE 9TH STREET CONSTR. @ STA. 33+50.00 - SEE SHEET 4



- LEGEND**
- PROPOSED PAVEMENT
 - PROPOSED CONCRETE
 - MILL AND OVERLAY/BUILD UP
 - DEMOLITION OF PAVEMENT
 - OBSCURING OF PAVEMENT
 - SCORED CONCRETE CROSSWALK
 - SIGNAL POLE AND FOUNDATION
 - PEDESTAL POLE AND FOUNDATION
 - DENOTES CONSTRUCTION LIMITS IN CUTS
 - DENOTES CONSTRUCTION LIMITS IN FILLS
 - NOTE: DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.
 - NOTE: DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

- STD. CG-6 REQ'D.
- STD. MS-2 W/CG-2 REQ'D.
- STD. SI-2 REQ'D.
- STD. MS-1A W/CG-2 REQ'D.
- 4" STD. HYD. CEMENT SDWK. REQ'D. - WIDTH = 5'
- EXIST. PIPE TO BE REMOVED/ABANDONED
- EXISTING UTILITY POLE TO BE REMOVED BY UTILITY OWNER
- ADJUST EXIST. UTILITY TO PROPOSED GRADE
- STD. CG-12, TYPE A REQ'D.
- STD. CG-12, TYPE C REQ'D.
- STD. CG-12, TYPE M2 REQ'D.
- STD. CG-12, TYPE B REQ'D.
- STD. FH-1 REQ'D.
- EXISTING UTILITY TO BE RELOCATED
- EXIST. PIPE TO BE CLEANED OUT
- STD. CG-2 REQ'D.

NOTES:
1. SEE SHEET 3 FOR UTILITY OWNERS.
2. CONTRACTOR SHALL RELOCATE ALL MAILBOXES WITHIN PROJECT LIMITS PER VDOT STANDARDS AND NO ADDITIONAL PAYMENT THERETO.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Alignment Data	ID
Existing Storm & Sanitary Sewer Data	IE
Construction Alignment Data	IF
9th Street Profile	5A
E&S Phase I Plan	5B
E&S Phase II Plan	5C
Entrance Profiles	5D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(5)
Traffic Signal Plan	9(4)
Duct Bank Plan	11(5)
Landscape Plan	12(5)
Utility Plan	XX

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	5

PROJECT MANAGER: TIM MOTSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

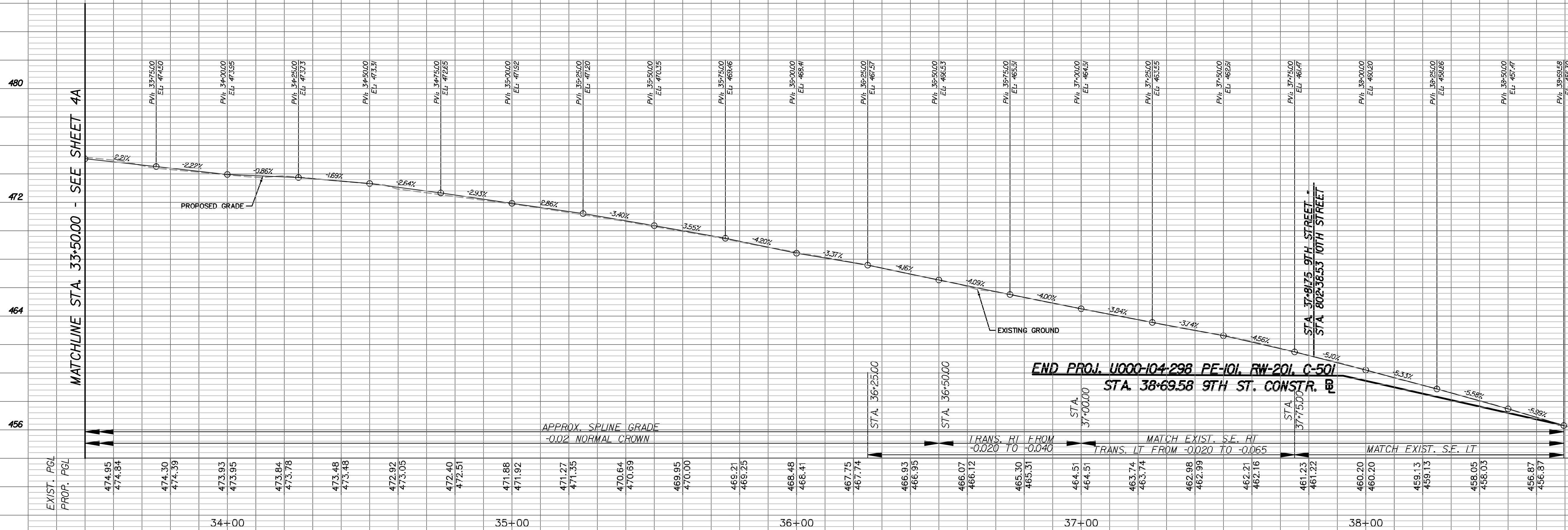
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	5A

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

9TH STREET (BUSINESS 250)

LEVELS BASED ON NAVD88



October 25, 2017 5:20 PM Brian, Alysa
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VERT:
1" = 4'
HORIZ:
1" = 20'

PROJECT
U000-104-298

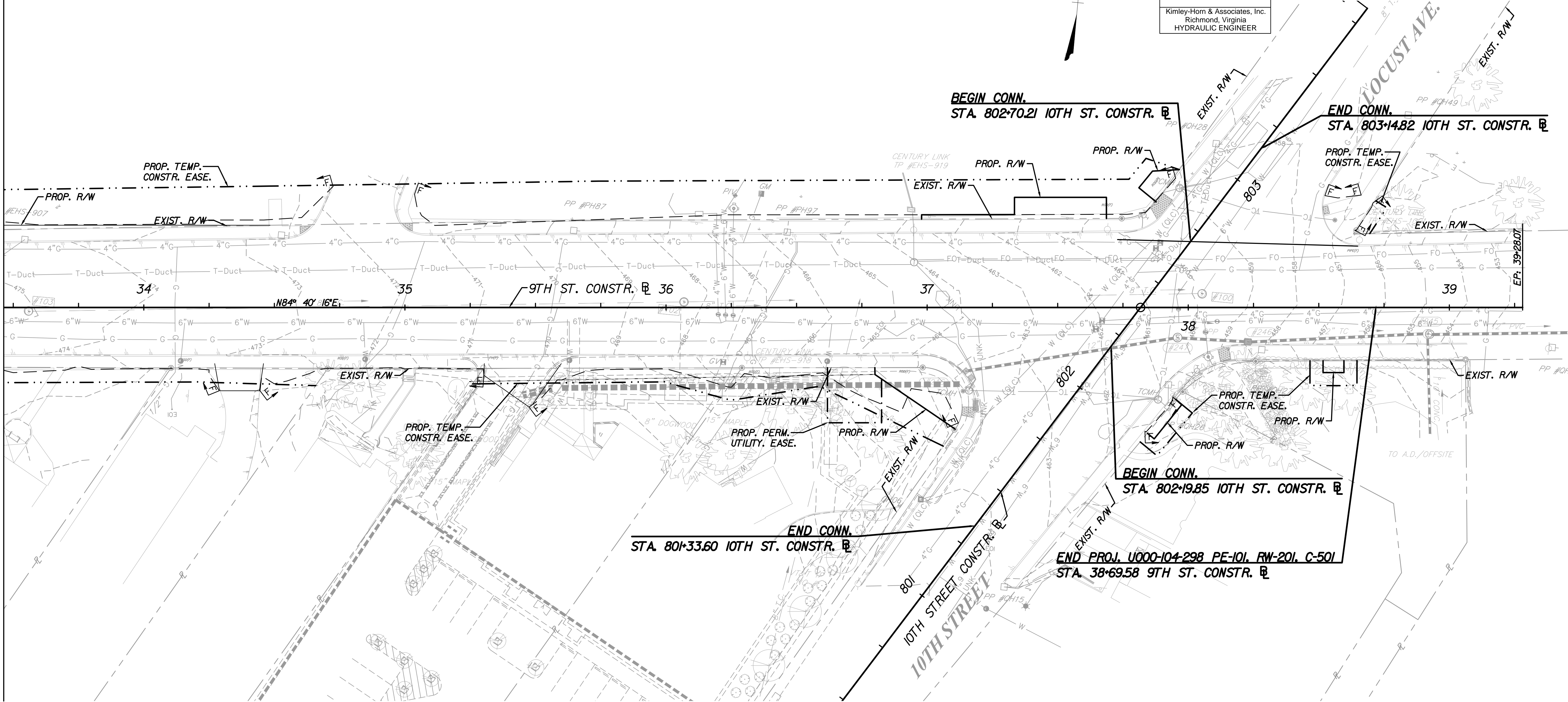
SHEET NO.
5A

PROJECT MANAGER: JIM MOTTSCHE (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

THIS SHEET FOR PHASE I
E&S CONTROL ONLY

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	5B
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Kimley-Horn & Associates, Inc. Richmond, Virginia HYDRAULIC ENGINEER				

MATCHLINE 9TH STREET CONSTR. @ STA. 33+50.00 - SEE SHEET 4B



EROSION AND SEDIMENT CONTROL LEGEND:

- EC-2 Denotes Protective Covering, St'd. EC-2
- TSF-A Denotes Temporary Silt Fence, St'd. EC-5 Type A or B
- TSF-B
- CP Denotes Culvert Inlet Protection, Type C; St'd. EC-6
- RCD-1 Denotes Rock Check Dam, Type I; St'd. EC-4
- RCD-2 Denotes Rock Check Dam, Type II; St'd. EC-4
- IP-A Denotes Inlet Protection, Type A; St'd. EC-6
- IP-B Denotes Inlet Protection, Type B; St'd. EC-6
- SF Denotes Safety Fence

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Alignment Data	IB
Existing Storm & Sanitary Sewer Data	IE
Construction Alignment Data	IF
Roadway Plan	5
9th Street Profile	5A
E&S Phase II Plan	5C
Entrance Profiles	5D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(5)
Traffic Signal Plan	9(4)
Duct Bank Plan	11(5)
Landscape Plan	12(5)
Utility Plan	XX

PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

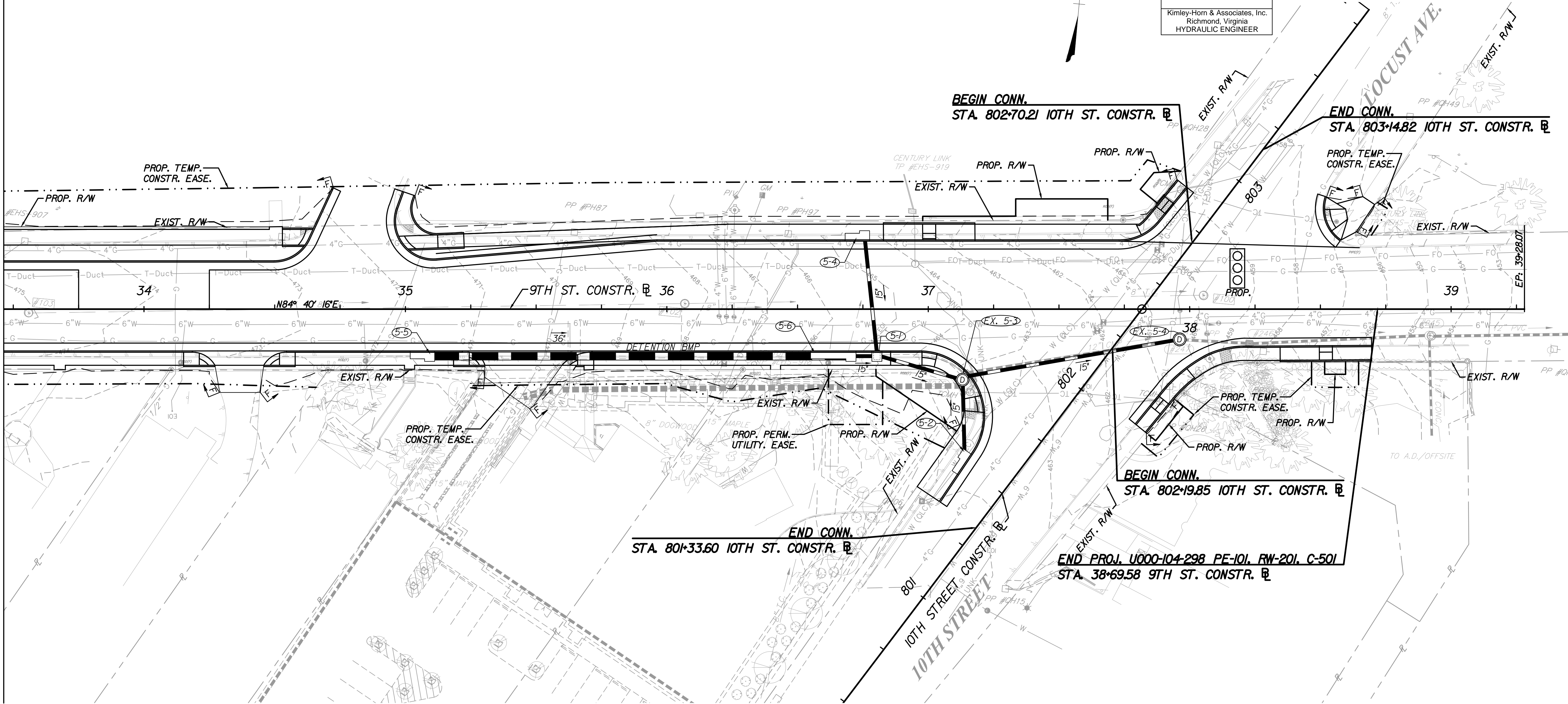
SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	5B

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

THIS SHEET FOR PHASE 2
E&S CONTROL ONLY

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	5C
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Kimley-Horn & Associates, Inc. Richmond, Virginia HYDRAULIC ENGINEER				

MATCHLINE 9TH STREET CONSTR. @ STA. 33+50.00 - SEE SHEET 4C



EROSION AND SEDIMENT CONTROL LEGEND:

- EC-2 Denotes Protective Covering, St'd. EC-2
- TSF-A Denotes Temporary Silt Fence, St'd EC-5 Type A or B
- TSF-B
- CP Denotes Culvert Inlet Protection, Type C; St'd EC-6
- RCD-1 Denotes Rock Check Dam, Type I; St'd EC-4
- RCD-2 Denotes Rock Check Dam, Type II; St'd EC-4
- IP-A Denotes Inlet Protection, Type A; St'd EC-6
- IP-B Denotes Inlet Protection, Type B; St'd EC-6
- SF Denotes Safety Fence

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IB
Existing Storm & Sanitary Sewer Data	IE
Construction Alignment Data	IF
Roadway Plan	5
9th Street Profile	5A
E&S Phase I Plan	5B
Entrance Profiles	5D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(5)
Traffic Signal Plan	9(4)
Duct Bank Plan	11(5)
Landscape Plan	12(5)
Utility Plan	XX

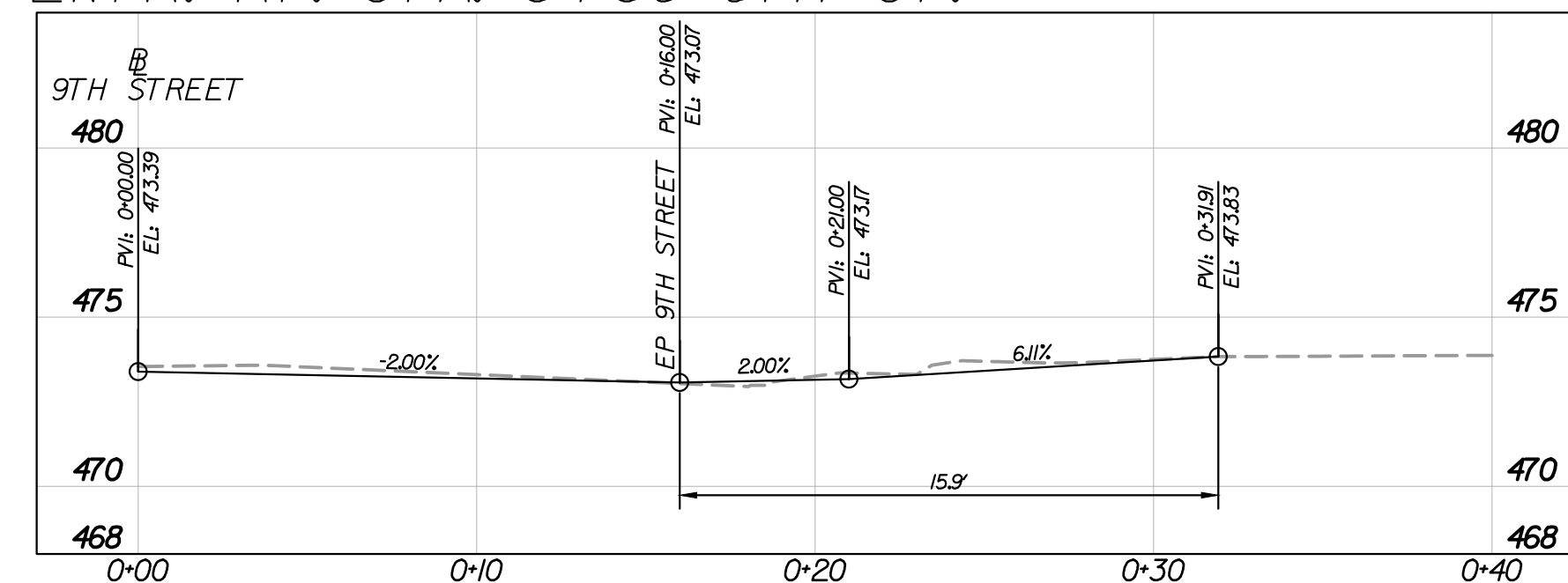
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DESIGN IS FINALIZED

SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	5C

ENTR. RT. STA. 34+36 9TH ST.



9TH STREET

480

475

470

465

0+00 0+10 0+20 0+30 0+40 0+50 0+60

PVI 0+00.00 EL 47.239

-2.00%

EP 9TH STREET PVI 0+25.00 EL 47.239

PVI 0+35.00 EL 47.229

210'

PVI 0+46.00 EL 47.189

-6.00%

-5.74%

PVI 0+60.00 EL 47.134

The profile view diagram illustrates the vertical alignment of a road section. The horizontal axis represents stationing from 0+00 to 0+40, with major grid lines every 10 stations. The vertical axis represents elevation in feet, with labels at 465, 470, 475, and 480. The road profile is defined by a solid line with the following data points:

- Station 0+00: Elevation 470.00 (Bench Mark, BM 0+00.00, EL. 470.00)
- Station 0+10: Elevation 469.80 (Grade -2.00%)
- Station 0+20: Elevation 470.20 (Vertical Curve Point, PVI 0+20.00, EL. 470.20)
- Station 0+30: Elevation 470.50 (Grade 5.05%)
- Station 0+40: Elevation 470.80 (Bench Mark, BM 0+32.85, EL. 470.80)

A vertical curve is shown between stations 0+10 and 0+30, with a length of 17.8'. The grades are -2.00% from 0+00 to 0+10, 2.01% from 0+10 to 0+20, 5.58% from 0+20 to 0+30, and 5.05% from 0+30 to 0+40. The diagram also shows the existing ground profile as a dashed line and the proposed road grade as a solid line.

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Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER

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ACQUISITION OF RIGHT OF WAY.

A horizontal scale bar with a black border. The word "SCALE" is centered above the bar. Below the bar, there are three tick marks labeled "0", "5'", and "10'". The segment between 0 and 5' is white, and the segment between 5' and 10' is black.

SHEET NO.
50

PROJECT MANAGER: TIM MOISCH - (434) 970-3395

SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC - 03/01/2018

DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)

DESIGN BY: KIMLEY-HORN & ASSOCIATES

SUBSURFACE UTILITY BY, DATE: ACCUMARK - 03/01/2018

CITY OF CHARLOTTESVILLE GENERAL NOTES

1. This project is to be constructed in accordance with the current edition of the following standards, specifications, and guidelines and as amended by these plans and provisions:

- City of Charlottesville Standards and Design Manual
- Manual on Uniform Traffic Control Devices (MUTCD)
- Proposed Guideline for Pedestrian Facilities in the Public Right-of-Way (PROWAG)
- VDOT Road and Bridge Specifications
- VDOT Road and Bridge Standards
- Virginia Work Area Protection Manual Latest Edition

2. All underground and overhead utilities shown on these plans are approximate only and may not be complete. Contractor shall contact "Miss Utility" (1-800-552-7001) at least 72 hours before construction and receive clearance prior to beginning any construction.

3. All catalog cuts and shop drawings for equipment and materials shall be submitted to Brennan Duncan 434-970-3993 and Mark Harlow 434-981-8736 for review process.

4. No work shall commence with the exception of soil survey/foundations until all submittals required are received, reviewed and accepted by the City Traffic Engineering Section.

5. Contractor shall contact Mark Harlow 434-981-8736 at least 1 week (7 days) prior to the commencement of construction.

6. All equipment is to be installed within the existing or proposed R/W or easement.

7. The electric service connection and service line locations may be field adjusted as necessary provided all equipment remains within the right of way or proposed easement, does not conflict with utilities and remains outside the pavement sections.

8. Controller cabinet foundation shall be in accordance with VDOT Std. CF-1.

9. Controller cabinet to be SAFETLAN *333SD with latest SAFETLAN 2070E controller and Wapiti controller software.

10. Contractor shall refer to the Latest Edition of the Road and Bridge Specifications Sec 700.04 (E) for placement of signal pole foundations.

11. Locations of signals from plan shall be reviewed in the field by a representative of the City of Charlottesville.

12. Pole foundation locations shall be staked in the field. Soil borings at these locations shall be analyzed to determine the appropriate foundation design. Contractor to design pole foundation to meet PF-8 specifications modified with 6 bolts and no wings, and if applicable, flush with the adjacent sidewalk surface.

13. Mast arm pole shall be in accordance with VDOT Std. MP-1 and Charlottesville mast arm pole specifications. All traffic signal poles, pedestal poles, auxiliary poles, cabinet, etc. shall be primed and powder coated black, per City design manual.

14. Traffic signal foundation depths and above ground foundation projection/reveal (if needed) shall be determined by the Contractor in accordance with PF-8 standards after the signal pole soil test borer are completed. There shall be no projection or reveal if the foundation is within or adjacent to a pedestrian path or if there is proposed APS equipment on the pole. Signal poles and foundations shall be in accordance with Special Provisions including maximum loading conditions. The pole supplier shall provide foundations designs and shop drawings that are signed and sealed by a Professional Engineer licensed in the state of Virginia.

15. All auxiliary pushbuttons will meet ADA requirements for location and reach, and shall be field adjusted with the City of Charlottesville ADA coordinator.

16. Conduit location shall be marked on all foundations and junction box collars per the specifications for each conduit installed.

17. Location of junction boxes are approximate and to be field reviewed by the City Engineer for final placement.

18. All unused wires in the signal heads shall be capped individually with crimp type caps.

19. Mast arm signal head mounting shall be in accordance with VDOT Std. SM-3.

20. Emergency preemption detectors shall be located as shown on the plans, however, may be field adjusted as necessary to provide optimal detection capabilities. Wiring shall be adjusted as necessary if the detector is modified.

21. Wireless spread spectrum radio requires two antennas per intersection and shall be configured as directed by the City Traffic Engineer.

22. Signal pole ground rods shall be installed in the JB adjacent to the signal poles. 8/10 bond wire shall be used to connect the ground rods to the signal poles.

23. The Engineer will develop the final timing plan. The City of Charlottesville will distribute the plan for implementation and fine-tuning by the Contractor. Contractor shall request the final timings in accordance with Section 703.02 of the VDOT Road and Bridge Specifications. Contact the City Traffic Engineer, Brennan Duncan 434-970-3993, at least 4 weeks in advance for requesting these timing.

24. Final inspection by the City of Charlottesville personnel of the traffic signal will not be conducted until all traffic signal work is completed. The City of Charlottesville Traffic Engineering Office shall be notified directly when the contractor is ready for the traffic signal inspection.

25. Contractor shall provide list of regular and after hours personnel and their phone numbers prior to the commencement of construction.

GENERAL NOTES

1. The following items and operations shall conform to the standard listed below unless noted on the plans:

- Pedestrian Pushbuttons.....PA-2 or PA-4, Powder Coated Black
- Signal Pole Foundation.....PF-8 or PF-1, Powder Coated Black
- Conduit Installation.....ECI-1 or Bored
- Signal Head Hangers.....SM-3
- Sign Hanger.....SMD-2
- Junction Box.....JB-S2, JB-S3
- Controller Cabinet Foundation.....CF-1
- Electrical Service.....SE-3 Type B or SE-5, Powder Coated Black
- Loop Detector (6' x 50').....TD-1C (Corner Drilled) or Video
- Loop Detector (6' x 6').....TD-1B (Corner Drilled) or Video

2. All traffic signal equipment including, mast arm poles, mast arms, and luminaire arms shall be powder coated black unless otherwise specified or required by the MUTCD, VDOT Road and Bridge Specifications, or VDOT Road and Bridge Standards.

3. All existing equipment shall be removed unless otherwise noted on the plans. Contractor shall contact the Engineer for a list of items to be salvaged, and the remaining items shall be disposed according to the VDOT Road and Bridge Specifications. Existing conduit and cables may be abandoned with prior approval by the City Traffic Engineer.

4. Existing signalized intersections shall remain signalized at all times unless otherwise approved by the City Traffic Engineer.

SIGNAL NOTES

A. POLES AND FOUNDATIONS

1. Mast arm are to be cut and capped per field instruction and all mast arms are to be field drilled only.

2. Mast arm pole foundations shall be in accordance with VDOT Std. PF-8 specifications modified with 6 bolts and no wings, and if applicable, flush with the adjacent sidewalk surface. Final foundation depth shall be determined by soil sample results.

3. All signal poles shall be in accordance with project specifications. All shop drawings and calculations for the signal poles, mast arms, and foundations shall include professional engineer's seal and show the maximum regional loading for that structure or what is shown on the signal plans, whichever has a greater requirement.

4. All mast arm pole foundations shall have one additional 2" conduit that shall run continuous to the nearest junction box or control cabinet as indicated on the plans.

5. The contractor shall verify mast arm length for adequate lane coverage and any underground/overhead utilities prior to installation of foundation.

6. Dimensions used for locating equipment (such as signal head assemblies, signs, preemtor, etc.) on mast arms are measured to the center of the symbols used to indicate that equipment.

B. CONTROLLER AND FOUNDATION

1. The controller cabinet foundation shall be VDOT Std. CF-1 and conform to 2016 VDOT Road and Bridge Standards and the conduit and cable legend on this sheet.

2. The Controller Cabinet & CF-1 foundation, with approval from the City Traffic Engineer, may be relocated within the designated corner provided it remains within the right of way, outside of the clear zone and pavement sections, does not conflict with utilities, does not limit sight distance, and is in accordance with the Electrical Service Standard detail referenced to the installation.

C. TRAFFIC SIGNAL HEADS

1. All traffic signal head sections (vehicle and pedestrian) shall be cast aluminum.

2. Contractor shall coordinate the use of high-visibility fluorescent yellow retroreflective backplates on vehicle signal heads with Brennan Duncan 434-970-3993. Backplate hardware shall be stainless steel.

3. Traffic signal heads and mast arm signs may be field adjusted no more than 2' in either direction on the mast arms, provided they remain within the designated travel lane assignments. If further adjustment is needed, the City of Charlottesville and the Engineer shall be notified.

4. All traffic signal head sections shall be LED per VDOT specifications.

5. Pedestrian signals mounted on pedestal poles shall be in accordance with VDOT Std. SMB-2 and pedestrian signals mounted on signal poles shall be in accordance with VDOT Std. SMB-3. All pedestrian signals shall be indicated in accordance with VDOT Std. SP-9. Pedestrian signals shall be actuated in accordance with VDOT Std. PA-2. Pedestrian signals shall be oriented to face the crosswalk to which it applies and be visible to a pedestrian standing at the beginning of the crosswalk on each corner. All pedestrian equipment shall be in accordance with the latest PROWAG requirements.

D. DETECTORS

1. The location of video detection equipment and zones shown on the plans are approximate. Contractor shall coordinate location of video detection equipment with the City of Charlottesville prior to final placement of video detection cameras.

2. Vehicle detection shall be maintained during all phases of construction.

3. Pedestrian pushbuttons shall be a Polara brand APS pushbutton station approved by the City and the Engineer with programmable custom messages which shall be programmed by the contractor.

E. CONDUIT, CONDUCTORS AND ELECTRICAL

1. For installation of conduit, no open cut will be allowed in roadway surface.

2. Junction box covers shall have the letters "TRAF" cast in the top surface depression for all traffic signal related junction boxes containing cable with less than 50 volts. All other junction box covers shall have the letters "ELEC" cast in the top depression.

3. No JB-S1, S2 or S3 junction boxes shall be installed in paved shoulder, sidewalk or multi-use trail.

4. All junction boxes shall be VDOT Std. JB-S2 unless otherwise indicated on the signal plans.

5. (S) denotes cable to be shielded, (M) denotes metal conduit, (EGC) denotes equipment grounding conductor.

6. Underground conduit and conductor cable shall conform to VDOT Std. ECI-1.

7. Conduits shall extend in to the junction boxes 2' (min.) to 3' (max.) and shall be fitted with bell-ends or bushings.

F. SIGNS

1. Mast arm sign installation shall conform to VDOT Std. SMD-2. Span wire installation shall conform to VDOT Std. SMD-1.

2. The square footage of sign per SMD-2 hanger shall not exceed 90% of the manufacturer's recommended maximum square footage per hanger.

G. RADIO COMMUNICATION

1. The contractor shall contact Mark Harlow with the City of Charlottesville Department of Public Works at 434-981-8736, prior to the placement of radio communication equipment, 2 week advance notice required.

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STANDARD SIGNAL LEGEND

PLAN ITEM

PLAN SYMBOL

PROPOSED

EXISTING

Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)

Pedestal Pole and Foundation (As noted in Signal Pole Legend)

Traffic Signal Head w/ Backplate

Traffic Signal Head w/o Backplate

Pedestrian Signal Head

Pedestrian Pushbutton & Sign

Traffic Signal Sign Mast Arm or Span Wire Mt'd. Pole Mounted

Emergency Vehicle Pre-emption (EVP) Sensor

Controller Cabinet & Foundation (Std. CF-4)

Junction Box (Std. as noted on plans)

Signal Luminaire and Arm

Loop Detector (Size as noted on plans)

Conduit

Uninterruptible Power Supply Cabinet

Video Detection Camera Directional 360°

Video Detection Zone (Size as noted on plans)

LABELS

Proposed Signal Head ②

Signal Pole or Controller Ⓐ

Proposed Pedestrian Signal Head ②

Cable and Conduit Ⓐ

Construction Notes ⚠

Signal Phasing ∅2

Sign S-1

Video Detection Camera VDC-1

Emergency Preemption Detector EVP-1

INDEX OF SHEETS

Sheet No.:

Sheet Description:

9(1)

INDEX OF SHEETS, GENERAL NOTES AND LEGEND

9(2)

SUMMARY OF QUANTITIES*

9(2A) - 9(2B)

OVERHEAD STREET NAME SIGN DETAILS*

Traffic Signal Plan: *****

9(3)

Traffic Signal Plan: 9TH ST AND E. HIGH ST AT E. HIGH ST

9(4)

Traffic Signal Plan: E. HIGH ST AT 10TH ST AND LOCUST AVE

* (NOT INCLUDED IN THIS SUBMISSION)

PUBLIC HEARING PLANS

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Kimley»Horn

1700 WILLOW LAWN DRIVE SUITE 200 RICHMOND, VA 23230 PHONE: (804) 673-3882

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL INDEX OF SHEETS, GENERAL NOTES & LEGEND

CITY OF CHARLOTTESVILLE, VIRGINIA

PROJECT

9(1)

U000-104-298

October 25, 2017 5:20 PM Brian, Anya
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K:\VIC_ROWY\113003004_E_High_StreetScape\CADD\SheetSet\Traffic Signal Notes and Details.dwg, Layout(1) INDEX OF SHEETS - GENERAL NOTES AND LEGEND

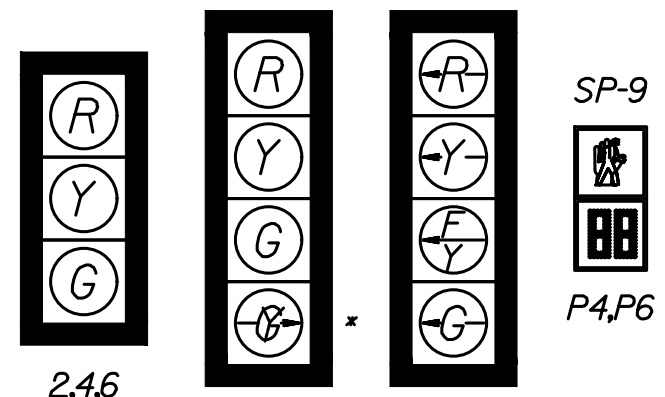
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DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK, 03/01/2018

Color Sequence Chart

SIGNAL	PHASES				COMBINATIONS		FLASH
	2	4	5	6	2-5	2-6	
2	G				G	G	Y
4		G					R
4A		G	G		G		R
5			G		G	F	Y
6				G		G	Y
P4	DW	W	DW	DW	DW		BLANK
P6	DW	DW	DW	W	DW	W	BLANK

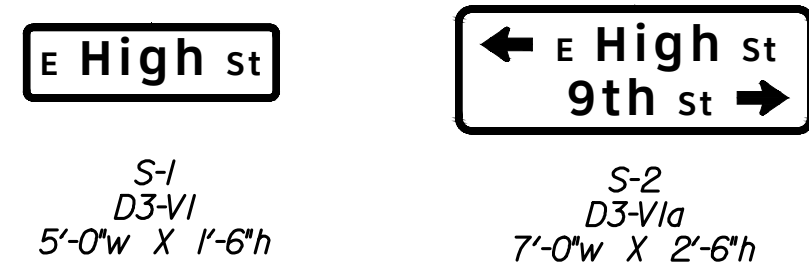
BLANK SPACES REPRESENT RED SIGNAL INDICATION.
PEDESTRIAN SIGNALS SHALL DISPLAY "DON'T WALK"
WHEN EMERGENCY VEHICLE PREEMPTION ACTUATES.

Proposed Signals

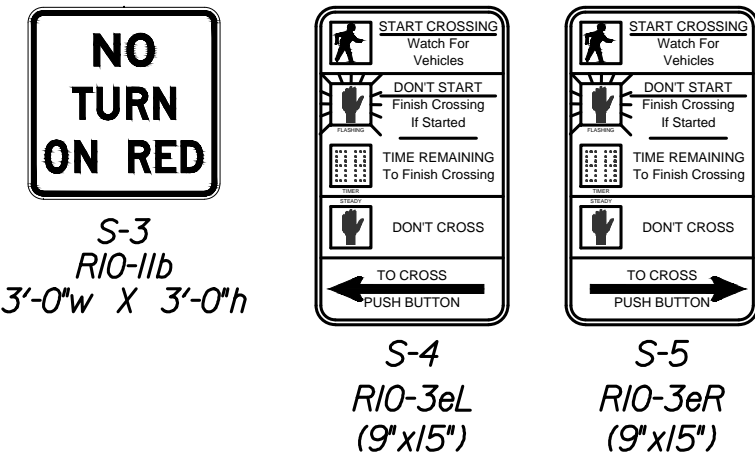


* LENS SHALL INCLUDE BOTH YELLOW AND GREEN.
INDIVIDUALLY PROGRAMMABLE, ARROWS

Proposed Street Name Signs



Proposed Signs

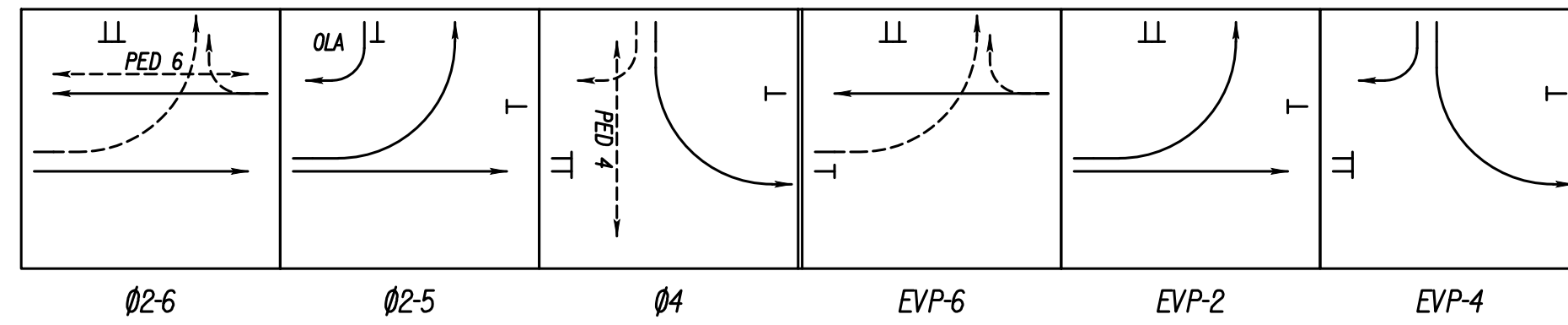


Signal Pole & Controller Legend

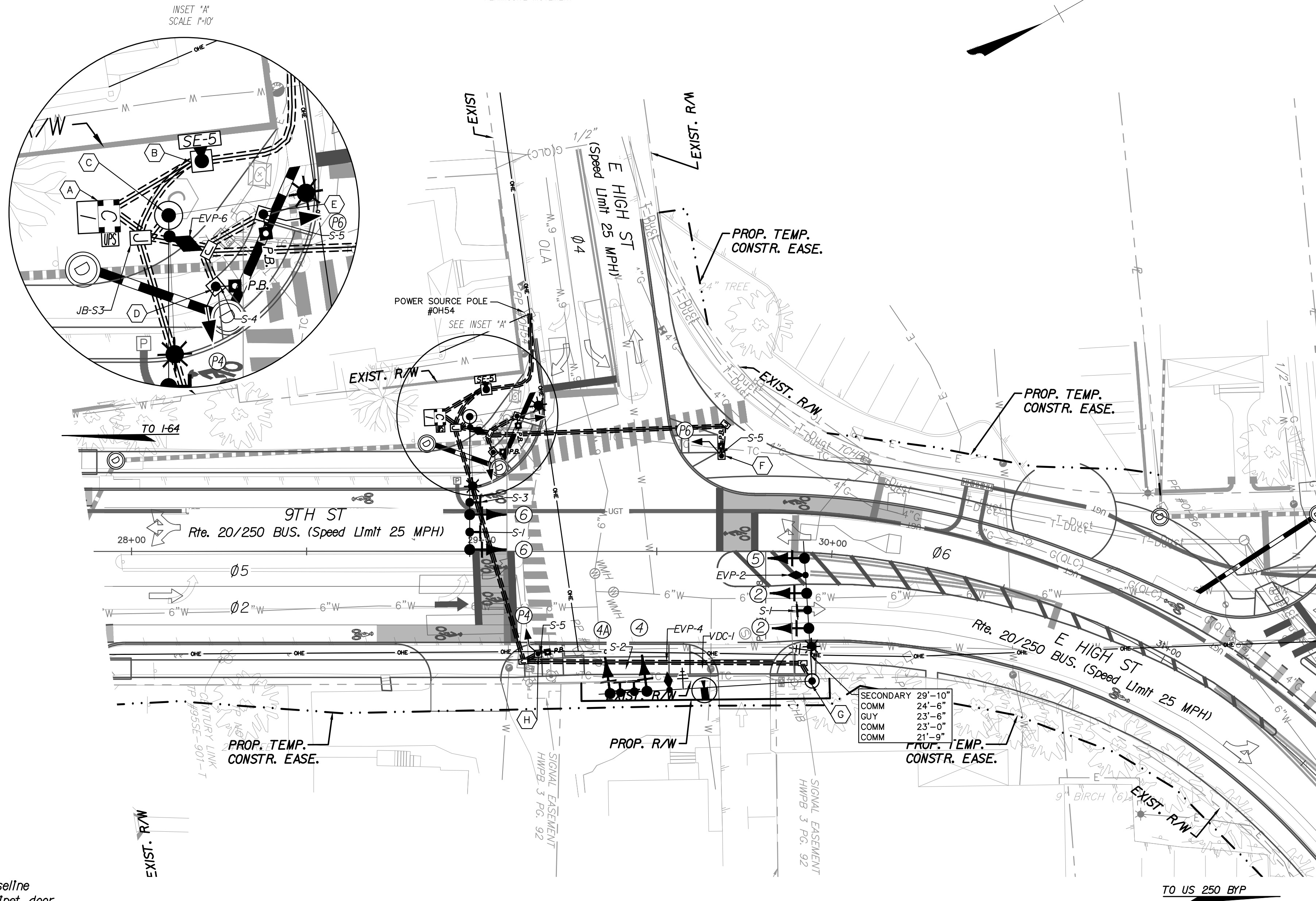
- (ALL DIMENSIONS ARE TO CENTER OF POLE)
- CONTROLLER CABINET & FOUNDATION (CF-1)
38.3' Left of Station 28+88.1 9th Street Construction Baseline
Door hinge located on left side of pad when facing cabinet door
UPS on right side of cabinet
 - SE-5 ELECTRICAL SERVICE
46.3' Left of Station 29+01.3 9th Street Construction Baseline
 - SIGNAL MAST ARM POLE, TYPE D
38.5' Left of Station 28+96.6 9th Street Construction Baseline
40' Arm 270° Orientation to 9th Street Construction Baseline
Signal Placement: 27', 37'
Sign Placement: 25', 32'
Camera Placement: TBD
EVP Placement: 5'
 - PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
28.3' Left of Station 29+03.3 9th Street Construction Baseline
 - PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
38.6' Left of Station 29+10.1 9th Street Construction Baseline
 - PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
27.3' Left of Station 29+68.5 9th Street Construction Baseline

- SIGNAL MAST ARM POLE, TYPE D
36.6' Right of Station 29+96.9 9th Street Construction Baseline
40' Arm 84° Orientation to 9th Street Construction Baseline
Signal Placement: 14', 24', 34'
Sign Placement: 19'
Antenna Placement: TBD
EVP Placement: 29'
- 60' Arm 174° Orientation to 9th Street Construction Baseline
Signal Placement: 46', 57'
Sign Placement: 52'
Antenna Placement: TBD
EVP Placement: 40'
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
29.2' Right of Station 29+16.1 9th Street Construction Baseline

Phasing Diagram



— = PROTECTED MOVEMENT
--- = PERMISSIVE MOVEMENT



SCALE
0 20' 40'

Kimley»Horn

1700 WILLOW LAWN DRIVE
SUITE 200
RICHMOND, VA 23230
PHONE: (804) 673-3882

REFERENCES (PLAN AND DETAIL SHEETS)

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

9TH STREET/E. HIGH STREET AT E. HIGH STREET

CITY OF CHARLOTTESVILLE, VIRGINIA

ASSET NO. N/A	PROJECT U000-104-298	SHEET NO. 9(3)
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	9(3)

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Kimley-Horn & Associates, Inc.
Richmond, Virginia
TRAFFIC ENGINEER

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AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

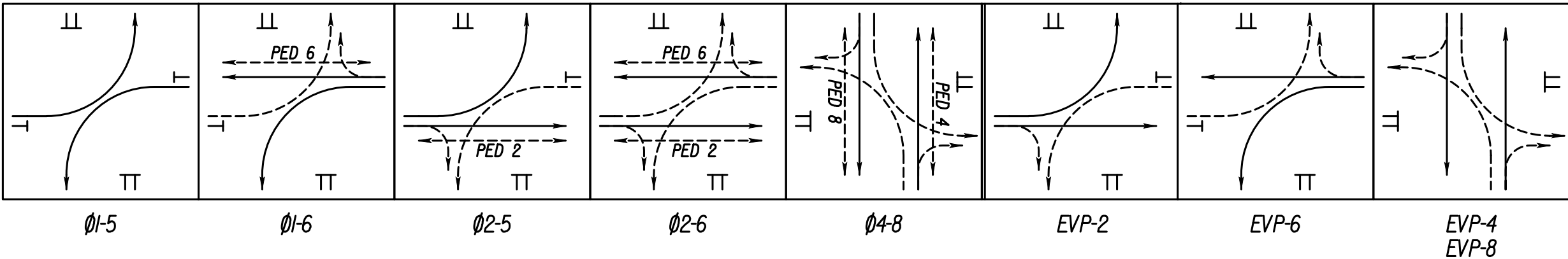
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK 03/01/2018

Color Sequence Chart

SIGNAL	PHASES						COMBINATIONS						FLASH
	1	2	4	5	6	8	1-5	1-6	2-5	2-6	4-8		
1	→G						→G	→G	FL	FL			Y
2		G							G	G			Y
4			G								G		R
5				→G			→G	FL	→G	FL			Y
6					G			G		G			Y
8						G					G		R
P2	DW	W	DW	DW	DW	DW	DW	DW	W	W	DW		BLANK
P4	DW	DW	W	DW	DW	DW	DW	DW	DW	DW	W		BLANK
P6	DW	DW	DW	DW	W	DW	DW	W	DW	W	DW		BLANK
P8	DW	DW	DW	DW	DW	W	DW	DW	DW	DW	W		BLANK

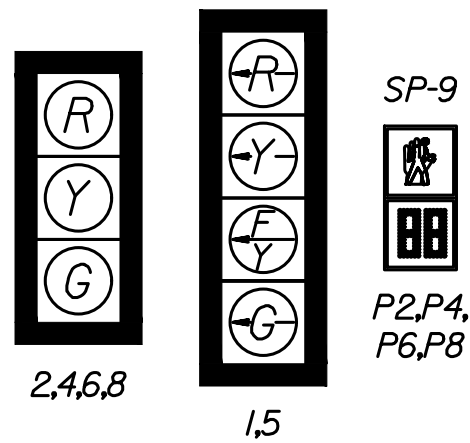
BLANK SPACES REPRESENT RED SIGNAL INDICATION.
PEDESTRIAN SIGNALS SHALL DISPLAY "DON'T WALK"
WHEN EMERGENCY VEHICLE PREEMPTION ACTUATES.

Phasing Diagram

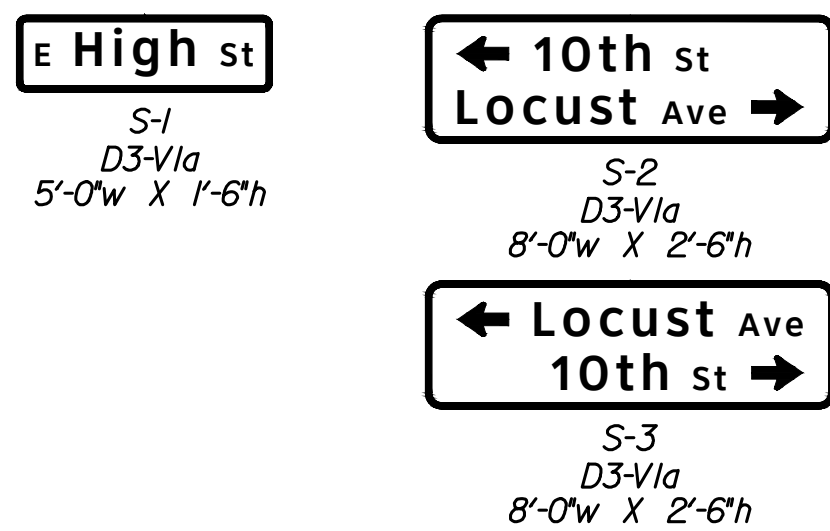


→ = PROTECTED MOVEMENT
--- = PERMISSIVE MOVEMENT

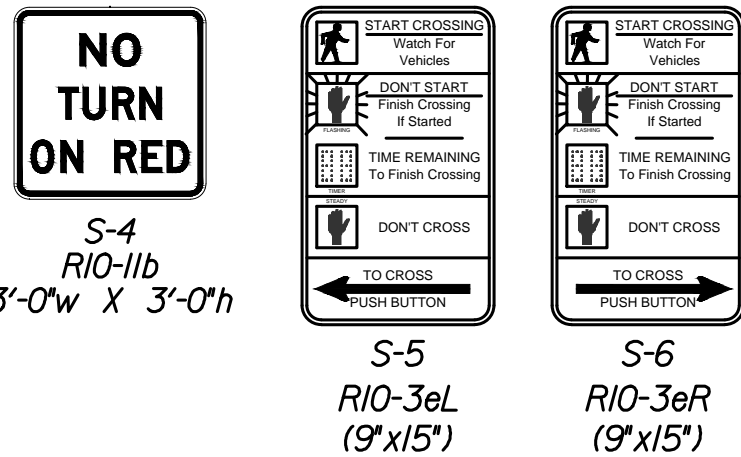
Proposed Signals



Proposed Street Name Signs



Proposed Signs

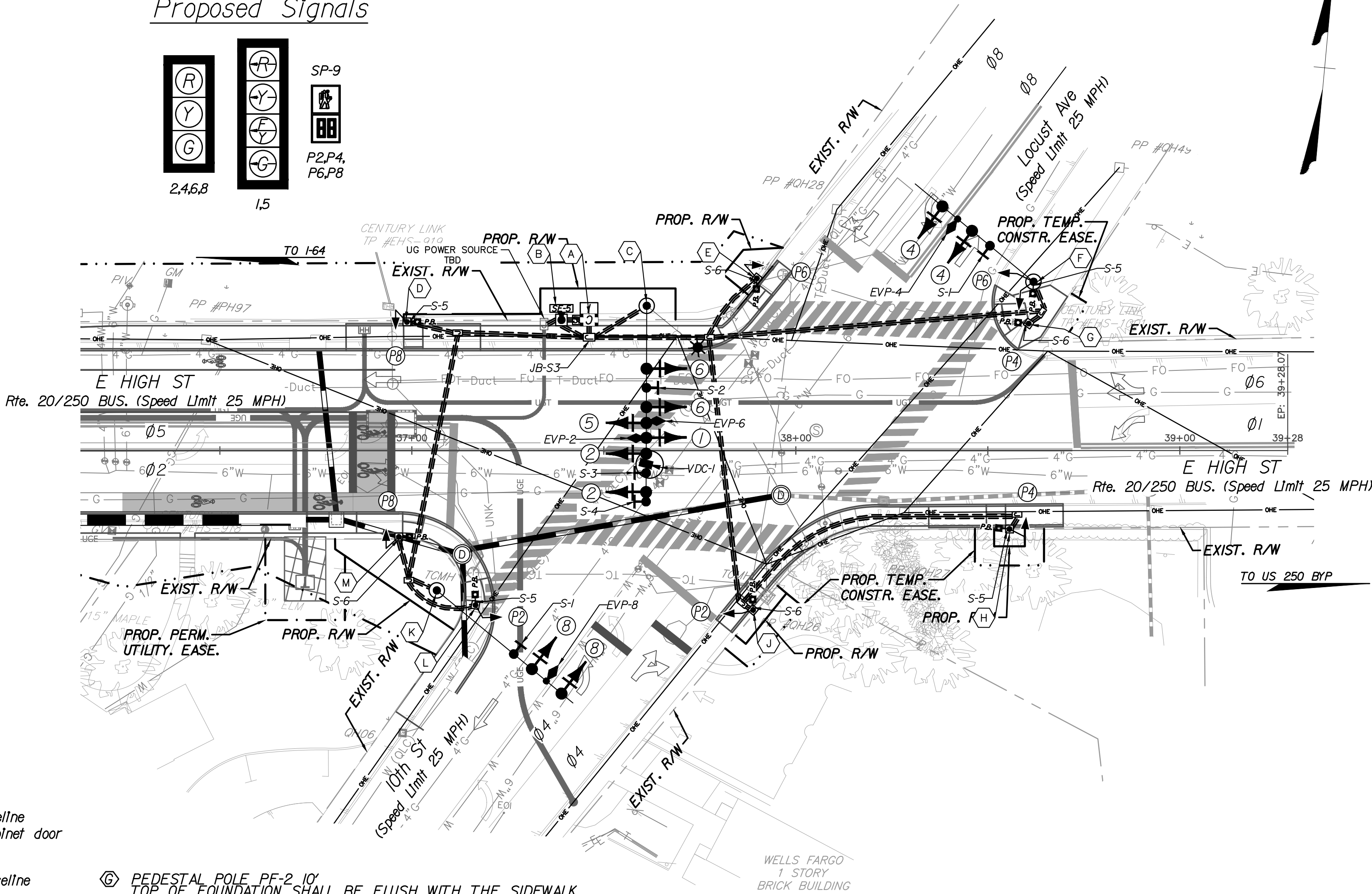


Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

- CONTROLLER CABINET & FOUNDATION (CF-1)
34.0' Left of Station 37+46.1 9th Street Construction Baseline
Door hinge located on right side of pad when facing cabinet door
UPS on right side of cabinet
- SE-5 ELECTRICAL SERVICE
34.0' Left of Station 37+39.0 9th Street Construction Baseline
- SIGNAL MAST ARM POLE, TYPE D
37.7' Left of Station 37+61.2 9th Street Construction Baseline
50' Arm 270° Orientation to 9th Street Construction Baseline
Signal Placement: 15', 25', 29', 33', 37', 41'
Sign Placement: 20', 42', 49'
Camera Placement: TBD
EVP Placement: 30', 32'
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
33.5' Left of Station 36+98.7 9th Street Construction Baseline
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
44.8' Left of Station 37+89.9 9th Street Construction Baseline
- SIGNAL MAST ARM POLE, TYPE D
44.0' Left of Station 38+61.9 9th Street Construction Baseline
40' Arm 220° Orientation to 9th Street Construction Baseline
Signal Placement: 20', 30'
Sign Placement: 14'
EVP Placement: 25'

- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
33.1' Left of Station 38+60.6 9th Street Construction Baseline
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
20.5' Right of Station 38+55.7 9th Street Construction Baseline
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
41.6' Right of Station 37+89.0 9th Street Construction Baseline
- SIGNAL MAST ARM POLE, TYPE D
36.4' Right of Station 37+06.5 9th Street Construction Baseline
40' Arm 40° Orientation to 9th Street Construction Baseline
Signal Placement: 31', 41'
EVP Placement: 36'
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
40.2' Right of Station 37+16.6 9th Street Construction Baseline
- PEDESTAL POLE PF-2 10'
TOP OF FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK
22.5' Right of Station 36+96.6 9th Street Construction Baseline



SCALE
0 20' 40'

Kimley»Horn

1700 WILLOW LAWN DRIVE
SUITE 200
RICHMOND, VA 23230
PHONE: (804) 673-3882

REFERENCES (PLAN AND DETAIL SHEETS)

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

E. HIGH STREET AT 10TH STREET/LOCUST AVENUE

CITY OF CHARLOTTESVILLE, VIRGINIA

ASSET NO. N/A	PROJECT U000-104-298	SHEET NO. 9(4)
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	9(4)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
TRAFFIC ENGINEER

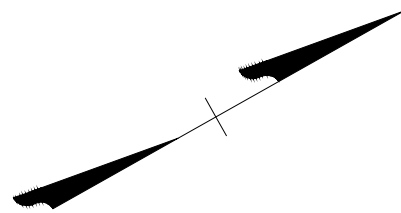
PUBLIC HEARING PLANS

THESE PLANS ARE UNFINISHED
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ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
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DESIGN IS FINALIZED

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK 03/01/2018

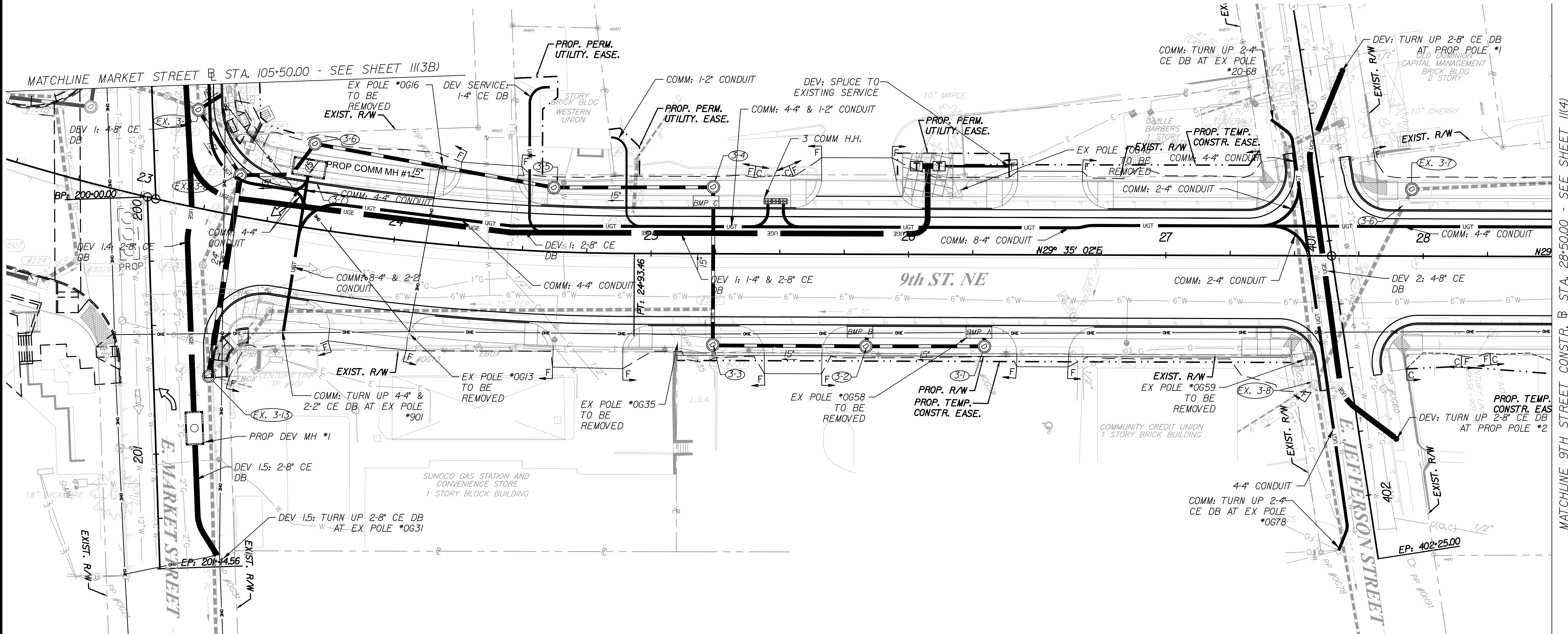
THIS SHEET FOR DUCT BANK PLANS ONLY



REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA	20	U000-104-298 C-501	11(3)

DESIGN FEATURES RELATING TO CONSTRUCTION
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Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



LEGEND

- PROPOSED DOMINION DUCT BANK
- PROPOSED TELECOMMUNICATIONS DUCT BANK
- PROPOSED DOMINION MANHOLE (6'X12'X7')
- PROPOSED TRANSFORMER
- PROPOSED DOMINION UTILITY POLE
- PROPOSED TELECOM 36\"X24\"X36\" HANDHOLE
- PROPOSED TRANSFORMER CLEAR ZONE

NOTES:

1. MAINTAIN A MINIMUM 5' SEPARATION BETWEEN EXISTING POLES AND PROPOSED DUCTBANK AT ALL LOCATIONS.
2. USE EXTREME CAUTION WHEN EXCAVATING UNDER AND NEAR OVERHEAD UTILITY WIRES.

PUBLIC HEARING PLANS

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DESIGN IS FINALIZED

SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	11(3)

October 25, 2017 5:20 PM Brian, Ajana
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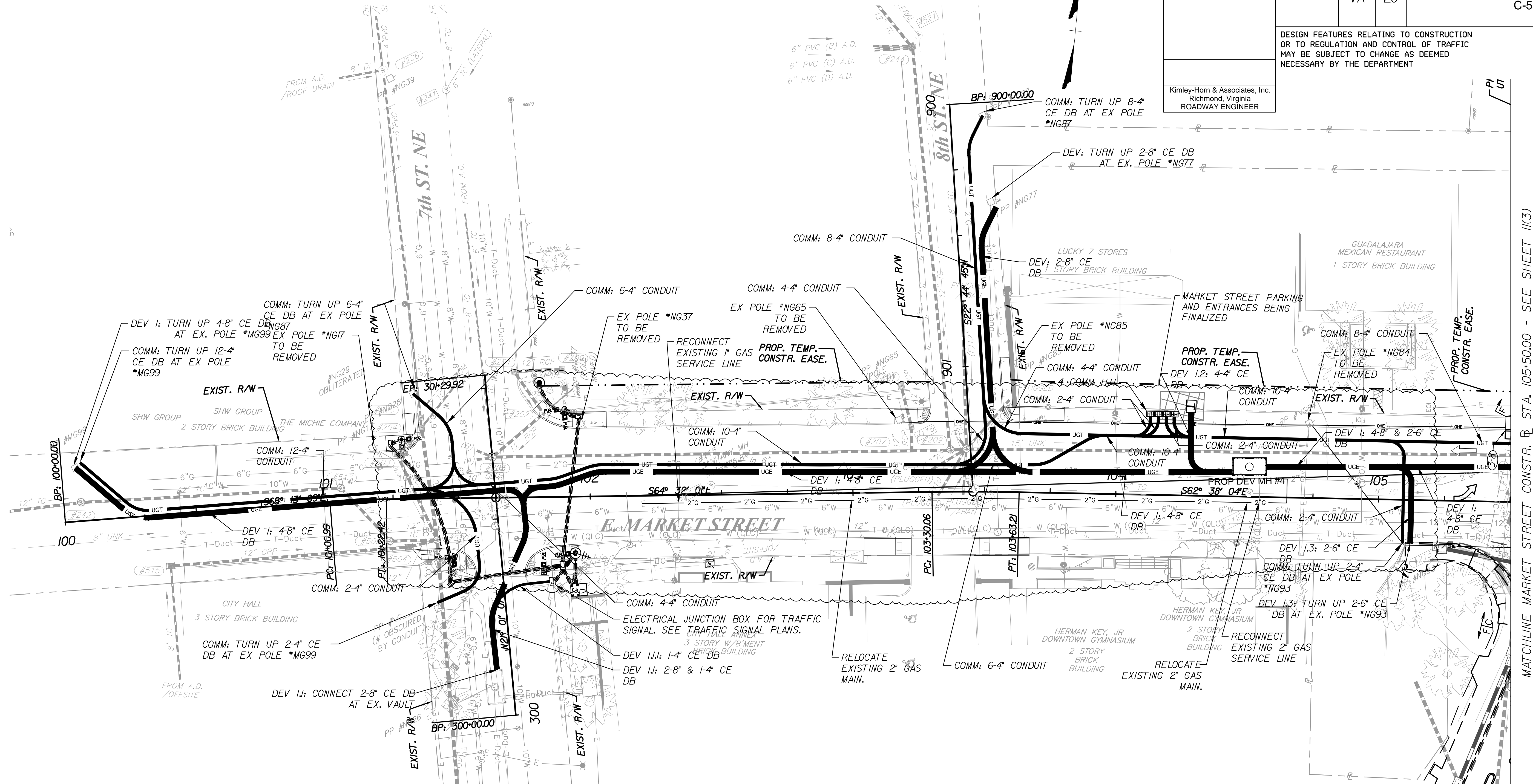
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

THIS SHEET FOR DUCT BANK PLANS ONLY

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA	20	U000-104-298 C-501	11(3B)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Richmond, Virginia
ROADWAY ENGINEER



LEGEND

- PROPOSED DOMINION DUCT BANK
- PROPOSED TELECOMMUNICATIONS DUCT BANK
- PROPOSED DOMINION MANHOLE (6'X12'X7')
- PROPOSED TRANSFORMER
- PROPOSED DOMINION UTILITY POLE
- PROPOSED TELECOM 36"X24"X36" HANDHOLE
- PROPOSED TRANSFORMER CLEAR ZONE
- PROPOSED 2" GAS MAIN

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PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

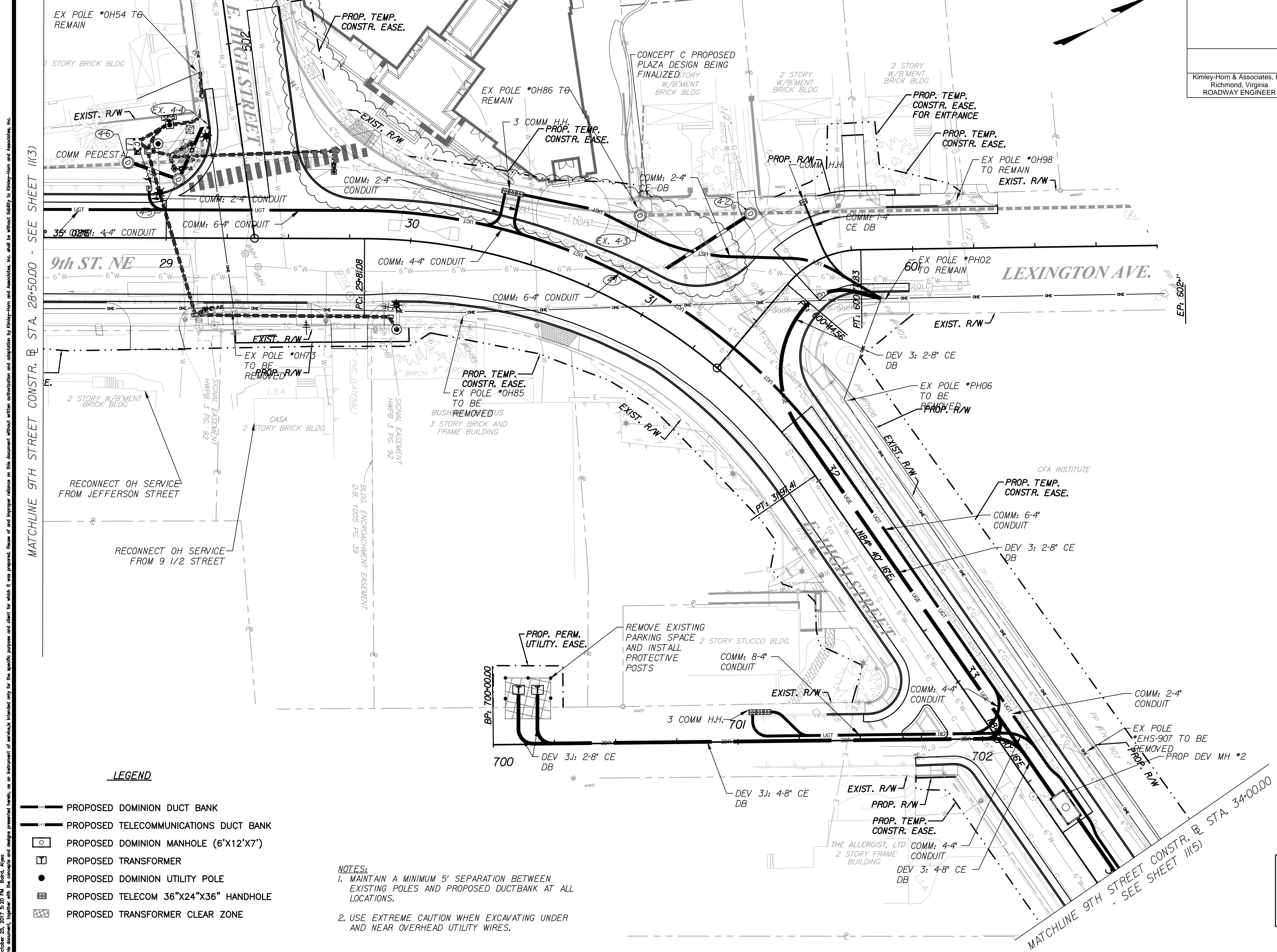
SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	11(3B)

October 25, 2017 5:20 PM: Brian, Anya
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PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY: DATE ACCUMARK 03/01/2018

THIS SHEET FOR DUCT BANK PLANS ONLY

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA	20	U000-104-298 C-501	III(4)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Kimley-Horn & Associates, Inc. Richmond, Virginia ROADWAY ENGINEER				



PUBLIC HEARING PLANS

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SCALE: 0 20' 40'

PROJECT: U000-104-298
SHEET NO.: III(4)

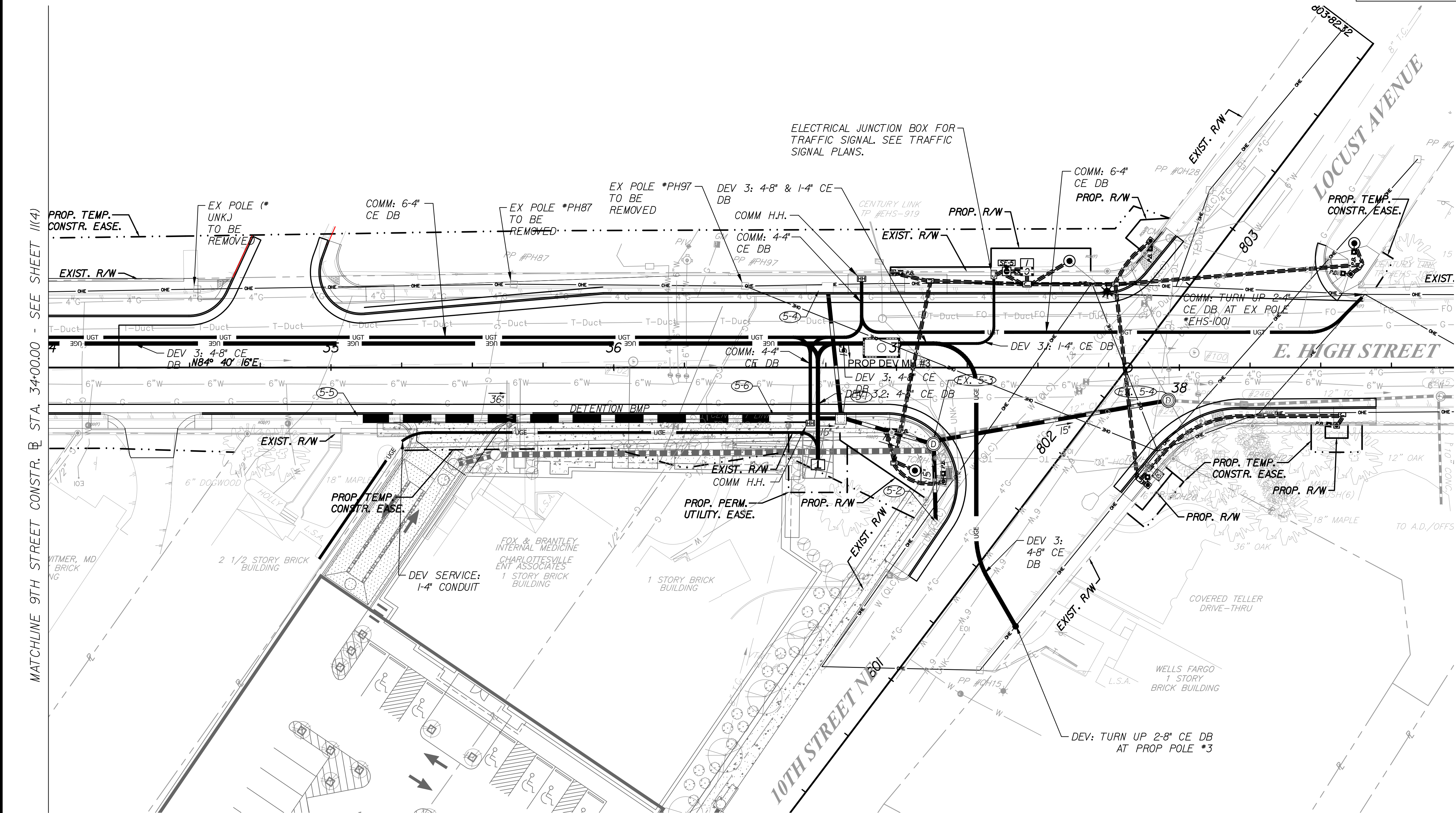
PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

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REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA	20	U000-104-298 C-501	11(5)

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Richmond, Virginia
ROADWAY ENGINEER



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PROJECT
U000-104-298

SHEET NO.
11(5)

- LEGEND
- PROPOSED DOMINION DUCT BANK
 - PROPOSED TELECOMMUNICATIONS DUCT BANK
 - PROPOSED DOMINION MANHOLE (6'X12'X7')
 - PROPOSED TRANSFORMER
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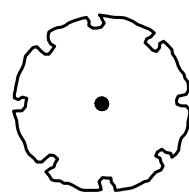
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PROJECT MANAGER TIM MOTSCH (434) 970-3395
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DESIGN SUPERVISED BY BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE ACCUMARK, 03/01/2018

GENERAL LANDSCAPE NOTES:

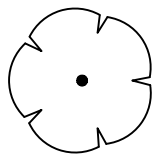
- The Landscape Contractor shall be responsible for all materials, testing and labor required to fully install the plant material per the plans including: soil testing, soil amendments (as necessary), bed preparation, plant installation, fertilizing, mulching, watering, maintenance and warranty.
- The Landscape Contractor shall be responsible for coordination of his work with that of all other contractors. This plan does not guarantee the existence or non-existence of any utilities. Prior to commencement of any work, the Landscape Contractor shall verify the locations of all above ground and underground utilities.
- The quality and size of all plant material shall conform to the most current standards as set forth in ANSI Z60.180 - American Standard for Nursery Stock.
- In the case of a quantity discrepancy between the plans and the plant schedule, the plans shall take precedence.
- No plant substitutions shall be made without the written consent of the Project Landscape Architect.
- Where plant material is proposed in areas adjacent to any property line, the Landscape Contractor shall verify the exact location of the property line. All new plant material shall be installed such that the entire root ball of the plant lies on the subject property. Under no circumstances shall any portion of the root ball extend beyond the limits of the subject property.
- Shredded hardwood mulch shall be applied to all plant material immediately after installation. See details for mulch depth.
- All areas not otherwise covered by buildings, pavement, sidewalks and planting beds shall receive either seed or sod. See plans for seeding and sod areas.
- The Landscape Contractor shall be responsible for maintaining his work for a period of two years after final acceptance by the Owner. Maintenance shall include: mowing, weeding, watering, mulch replacement, removal and replacement of dead material, resetting of plants to proper grades or upright positions, fertilizing, debris removal and any required chemical applications to ensure the health of the plants.
- All plant material that fails to exhibit new growth after the first dormant period following installation shall be replaced by the Landscape Contractor at his expense. All replacements shall conform to the original specifications as to size and type.
- All trees located within sight triangles shall be limbed up to a height of 6 feet above grade.
- All topsoil placed on the site shall be tested and fertilizer applied based on the noted nutrient
- All trees located within MSE wall reinforcement must have soil suitable for planting 3 feet in depth above MSE wall fill.
- Herbicides are to be used as a last resort. Any use of herbicides or pesticides must be approved by the City's landscape manager, prior to application.
- Gator bags, or similar watering device, are to be installed on all trees.
- All landscape planting shall conform to the planting details set forth in section 1200 of the 2016 VDOT road and bridge standards.

MASTER CONCEPT PLANT SCHEDULE



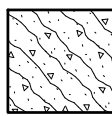
LARGE CANOPY TREE
Gleditsia tinacanthos inermis "Shademaster" TM / Shademaster Locust
Liquidambar styraciflua "Rotundiloba" TM / Round-Lobed Sweet Gum
Platanus x acenfolia "Bloodgood" / London Plane Tree
Quercus coccinea / Scarlet Oak
Quercus phellos / Willow Oak
Ulmus americana "Princeton" / American Elm

14



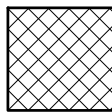
SMALL DECIDUOUS OR ORNAMENTAL TREE
Amelanchier x grandiflora "Autumn Brilliance" / "Autumn Brilliance" Serviceberry
Carpinus caroliniana / American Hornbeam
Cercis canadensis "Hearts of Gold" / Forest Pansy Redbud
Cornus florida "Appalachian Snow" / Dogwood Appalachian Snow
Cornus kousa / Kousa Dogwood
Pistacia chinensis / Chinese Pistache

25



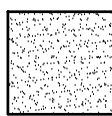
BIOFILTER
Carex stricta / Tussock Sedge
Clethra alnifolia "Hummingbird" / Summersweet
Cornus sericea "Arctic Fire" / Arctic Fire Dogwood
Eupatorium dubium "Little Joe" / Joe-Pye Weed
Ilex verticillata "Red Sprite" / Red Sprite Winterberry
Iris versicolor / Blue Flag
Itea virginica "Little Henry" TM / Virginia Sweetspire
Panicum virgatum "Heavy Metal" / Blue Switch Grass
Rudbeckia fulgida "Goldstrum" / Coneflower

301 sf



SHRUBS & GRASSES
Aronia arbutifolia "Brilliantissima" / Brilliant Red Chokeberry/Red Chokeberry
Cornus sericea "Arctic Fire" / Arctic Fire Dogwood
Geranium x "Rozanne" TM / Hybrid Cranebill
Hemerocallis x "Happy Returns" / Happy Returns Daylily
Hydrangea quercifolia "Pee Wee" / Oakleaf Hydrangea
Hypericum calycinum "Bngadon" / Bngadon Aaron's Beard
Ilex glabra "Shamrock" / Inkberry
Juniperus conferta "Blue Pacific" / Blue Pacific Juniper
Myrica cerifera "Little Bull" / Little Bull Wax Myrtle
Nepeta racemosa "Walker's Low" / Catmint
Panicum virgatum "Hamelin" / Dwarf Fountain Grass
Panicum lauratum "Sternandoah" / Switch Grass
Prunus laurocerasus "Otto Luyken" / Luykens Laurel
Solidago canadensis "Baby Gold" / Goldenrod
Viburnum dentatum "Arrowwood" / Arrowwood Viburnum

6,174 sf



SOD

6,425 sf

PLANTING SPECIFICATIONS

- QUALITY ASSURANCE:**
 - Landscape planting and related work shall be performed by a firm with a minimum of five years experience specializing in this type and scale of work.
 - Applicable Specifications and Standards:
 - Current Edition of VDOT Road and Bridge Specifications
 - American Joint Committee on Horticultural Nomenclature
 - American Standard for Nursery Stock, latest edition
 - SUBMITTALS:** Submit the following to the Engineer prior to beginning work:
 - Copies of manufacturer's data for all materials required.
 - Samples of required mulch material.
 - Chemical and mechanical analysis and samples of all existing soil, topsoil, organic matter and soil mix to be used.
 - Planting schedule showing the dates (earliest and latest) proposed for each type of plant specified, schedule each type of planting within the normal planting seasons for such work. Include requests for any proposed changes in the approved planting season and a list of proposed sources for all plant materials.
 - List of proposed sources for all plant material.
 - DELIVERY, HANDLING, AND STORAGE:**
 - Deliver packaged materials in manufacturer's unopened containers or bundles, fully identified with name, brand, type, weight, and analysis. Store packaged materials in such a manner as to prevent damage or intrusion of foreign matter.
 - DRAINAGE:** Before planting / seeding, determine that areas to receive plant material / seed have adequate subdrainage.
 - The landscape contractor is responsible for drainage tests as necessary to identify any problems prior to beginning planting operations. Upon commencement of planting operations the landscape contractor assumes responsibility for soil conditions.
 - SEEDING:** Seeding procedures shall conform with section 603 of the current VDOT Road and Bridge Specifications shall be done only within the following dates except as approved by the Engineer.
 - MATERIALS FOR PLANTING:**
 - Topsoil: Except taken from 2016 VDOT Road and Bridge Specifications Sections 244.02(B) and 602. Topsoil may be naturally occurring or may be manufactured and shall be free of foreign objects such as refuse, woody vegetation, stumps, roots, brush, stone larger than 3/4 inches, and other material deleterious to plant growth. Maximum size of other foreign objects shall be 2 inches. Topsoil shall conform to the following:
 - Topsoil shall have a pH range of 5.5 to 7.0.
 - Topsoil shall contain 2-10% organic matter by dry weight.
 - USDA Soil Texture: sandy loam, Loamy Sand, Sandy Clay Loam, Loam, Silt Loam
 - Minimum Phosphorus fertility rating of "Medium (M)"
 - Topsoil shall be of the following classifications:
 - Class A topsoil: Class A topsoil shall be stockpiled topsoil that has been salvaged from within the project limits in accordance with Section 303.04(a). It shall be the original layer of the soil profile formed under natural conditions, technically defined as the "A" horizon or as defined by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) Soil Survey Division.
 - Class B topsoil: Class B topsoil shall be topsoil furnished from sources outside the project limits and shall be the original top layer of a soil profile formed
 - SOIL MIXING PROCEDURES:**
 - Topsoil used in sand/soil mixes shall be screened or shredded prior to mixing in sands. Maximum clod inclusion for soil mixes shall not exceed:
Clod size (largest dimension)% of the soil mix volume

Less than 1"	Unlimited
1 to 3 inches	20%
3 to 6 inches	5%
>6 inches	Less than 2%
 - Source material and soil mix stockpiles shall be protected from rain by covering with filter cloth.
 - INSTALLATION OF TOPSOIL FOR SEEDED AREAS:**
 - Topsoil Class A shall be installed in all seeding areas in accordance with Section 602 of the current VDOT Road and Bridges Specifications Manual.
 - INSPECTION:**
 - Examine the areas and conditions where topsoil is to be installed and notify VDOT of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.
 - Cooperate with other Contractors and trades working in and adjacent to other work areas. Examine drawings which show development of entire project and become familiar with scope of other work required.
 - SOIL INSTALLATION - GENERAL PROCEDURES:**
 - Prepare the subgrade by roughening the top 4" of the subsoil by dragging the teeth of a backhoe bucket across the surface. Remove any debris from the 4" of subsoil.
 - Begin soil installation as soon as subsoil is prepared. Use low impact equipment with track belts, large tires, or low tire pressure to lower compaction and soil damage during installation.
 - Monitor compaction during installation and loosen soils as needed if compaction exceeds 80%.

under natural conditions, technically defined as the "A" horizon or as defined by USDA-NRCS Soil Survey Division, or manufactured top soil. The Contractor shall provide to the Engineer a source of the borrow materials for topsoil planned for use on the project prior to use.

6.1.6. Manufactured topsoil shall consist of a mineral component and amendments to meet the specified organic content, PH and other requirements as detailed in the VDOT Road & Bridge Specifications. Organic material used in conjunction with amending or manufacturing of topsoil shall meet all regulatory requirements of the Virginia Department of Environmental Quality or the equivalent state regulatory agency from the state of origin and the United States Environmental Protection Agency Electronic Code of Federal Regulations (e-CFR, current edition) Title 40, Part 03—Standards For The Use Or Disposal Of Sewage Sludge, as applicable.

6.1.7. Testing and documentation: The Contractor shall submit the following test reports to he Engineer for Class A and Class B topsoil prior to use. Testing shall be completed by a DCR-approved soils testing laboratory. Soil analysis of topsoil, including pH factor, mechanical analysis (composition), salinity (soluble salts), percentage of organic content, and soil classification based thereon. Recommendations on the types and quantities of additives required to establish a satis-factory pH and bring the supply of nutrients to a level satisfactory for establishing and sustaining turf and/or for use as a soil mix for planting, if applicable.

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	12(1)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Kimley-Horn & Associates, Inc. Reston, Virginia LANDSCAPE ARCHITECT				

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Landscape Plan	12(3)-12(5)
Lighting Plan	8(1)-8(5)

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

SCALE	PROJECT	SHEET NO.
0 20' 40'	U000-104-298	12(1)

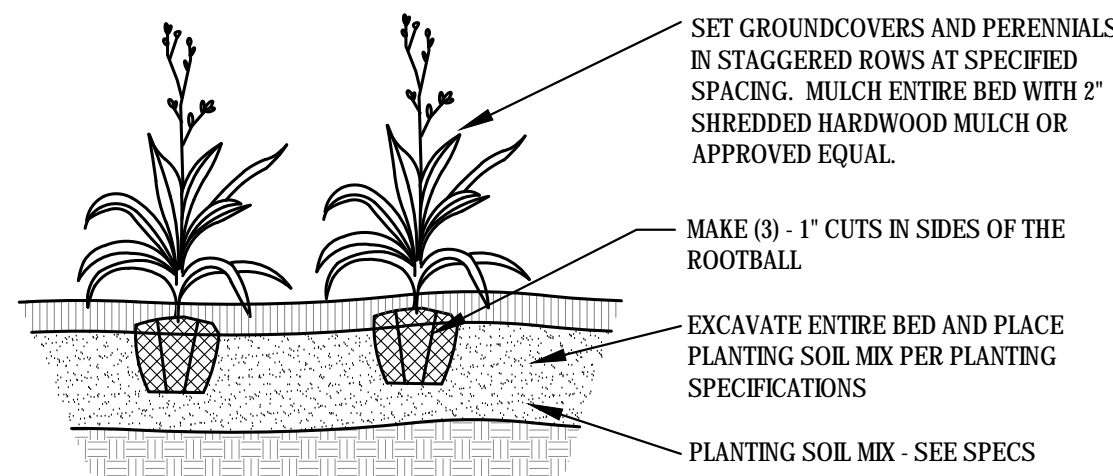
October 25, 2017 5:20 PM Brian, Alysa
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PROJECT MANAGER TIM MOTSCH (434) 970-3395
SURVEYED BY, DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE ACCUMARK, 03/01/2018

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	12(2)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

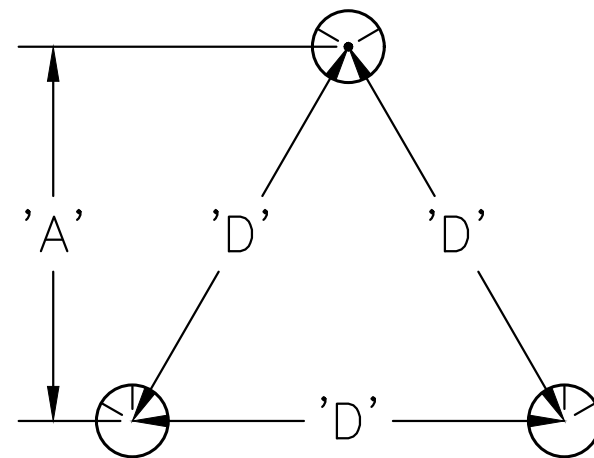
Kimley-Horn & Associates, Inc.
Reston, Virginia
LANDSCAPE ARCHITECT



1 GROUNDCOVER PLANTING

NOT TO SCALE

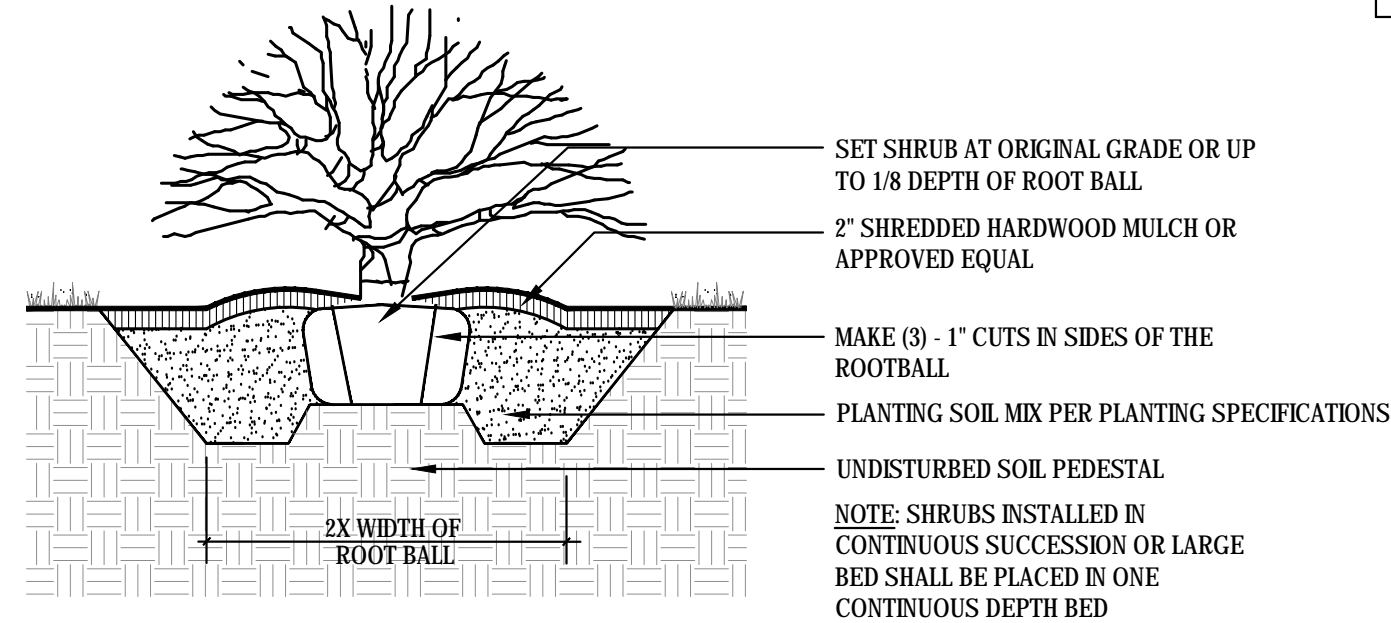
NOTE: GROUNDCOVERS AND
PERENNIALS TO BE INSTALLED WITH
TRIANGULAR SPACING



2 GROUNDCOVER SPACING

NOT TO SCALE

PLANT SPACING 'D'	ROW 'A'
8" O.C.	6.93" O.C.
10" O.C.	8.66" O.C.
12" O.C.	10.4" O.C.
18" O.C.	15.6" O.C.
24" O.C.	20.8" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

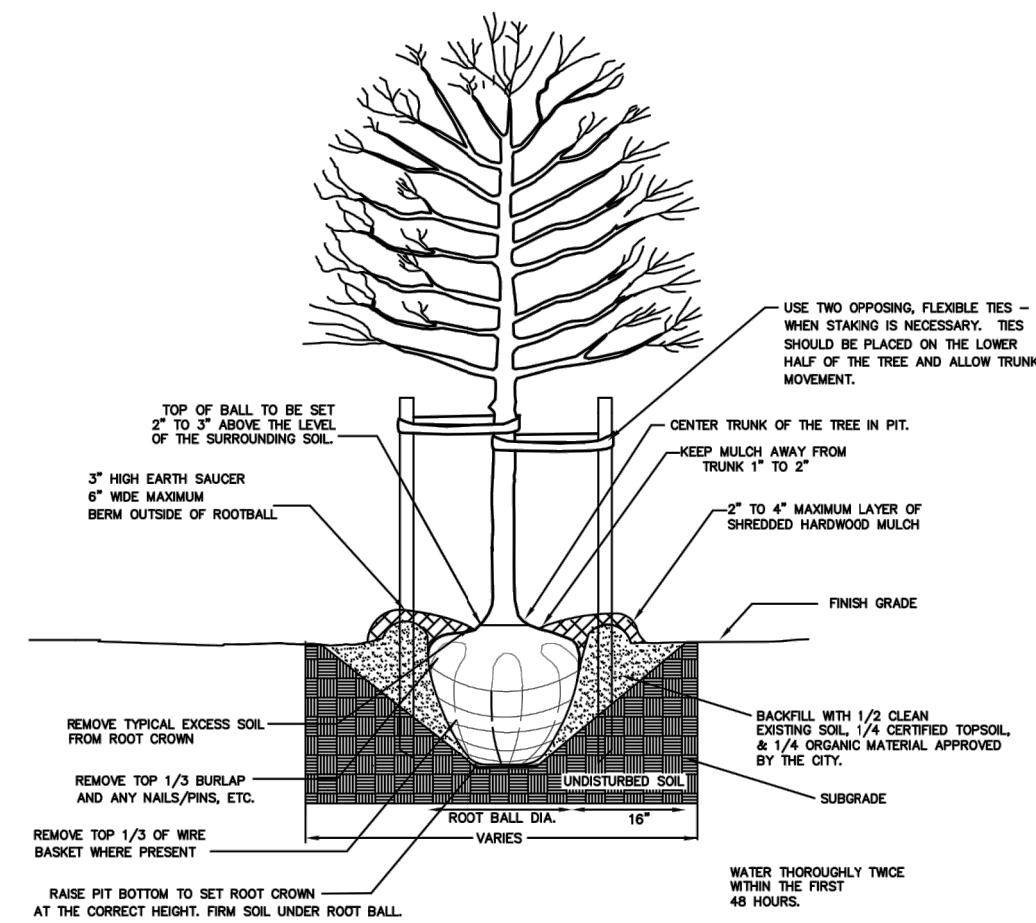


3 SHRUB PLANTING

NOT TO SCALE

NOTES:

1. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
2. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
3. STAKING IS REQUIRED FOR ALL TREES IN R.O.W. OR UPON REQUEST OF ARBORIST.
4. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
5. RESEED UNMULCHED, DISTURBED AREAS.
6. AT PLANTING PRUNE ONLY CROSSING LIMBS, CO-DOMINANT LEADERS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS.

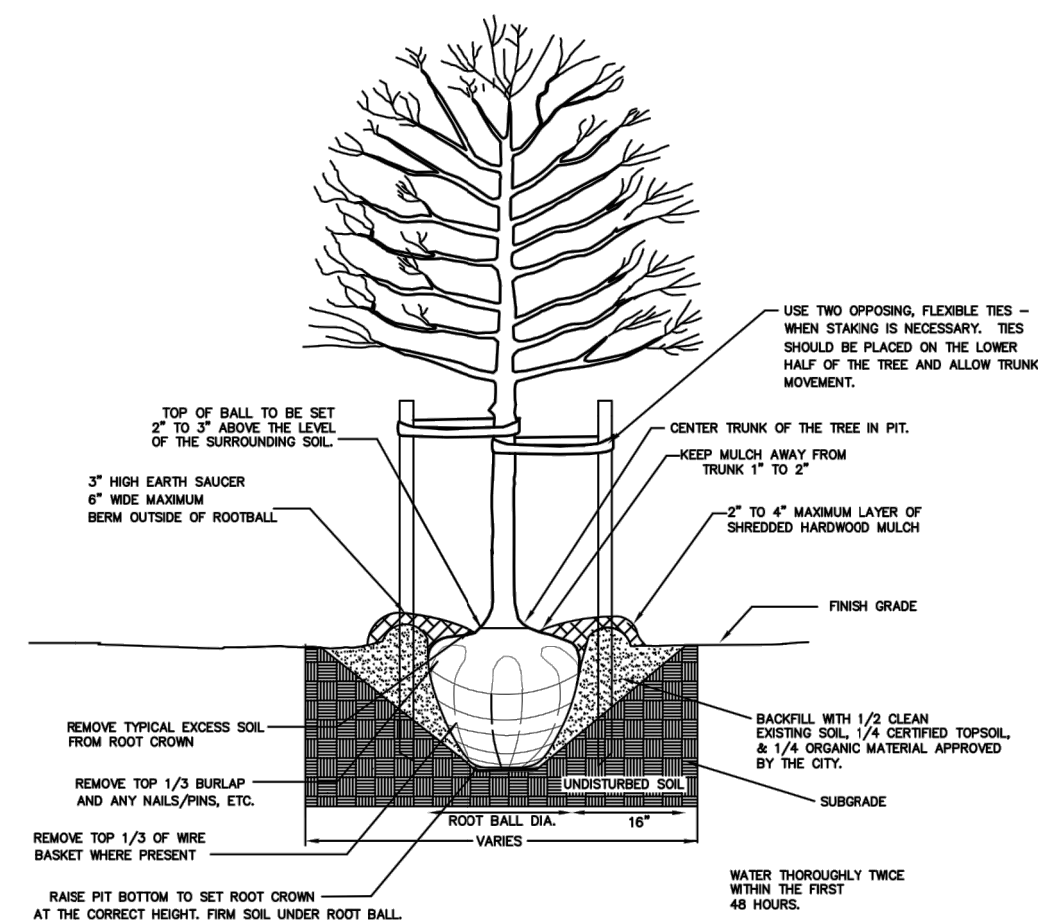


4 TYPICAL TREE PLANTING DETAIL (CITY OF CHARLOTTESVILLE)

SCALE: N.T.S.

NOTES:

1. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
2. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
3. STAKING IS REQUIRED FOR ALL TREES IN R.O.W. OR UPON REQUEST OF ARBORIST.
4. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
5. RESEED UNMULCHED, DISTURBED AREAS.
6. AT PLANTING PRUNE ONLY CROSSING LIMBS, CO-DOMINANT LEADERS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS.



5 TYPICAL STREET TREE PLANTING DETAIL (CITY OF CHARLOTTESVILLE)

SCALE: N.T.S.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Landscape Plan 12(3)-12(5)
Lighting Plan 8(1)-8(5)

PUBLIC HEARING PLANS

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ACQUISITION OF RIGHT OF WAY.

PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

SCALE
0 20' 40'

PROJECT
U000-104-298

SHEET NO.
12(2)

PROJECT MANAGER: JIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	12(3)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Reston, Virginia
LANDSCAPE ARCHITECT

EAST JEFFERSON STREET, LC

GEWINN INVESTORS

COMMONWEALTH LAND AND
MANAGEMENT CORPORATION

OLD DOMINION REALTY, LLC.

MATCHLINE MARKET STREET CONSTR. @ STA. 105+25.00 - SEE SHEET 12(3B)

CITY OF CHARLOTTESVILLE

B S INVESTORS

9th ST. NE

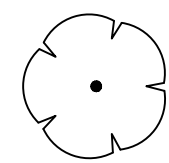
UNIVERSITY OF VIRGINIA
COMMUNITY CREDIT UNION

SACH, LLC

701 E. WATER ST, LLC

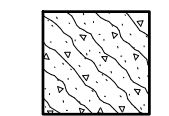
THE CITY OF CHARLOTTESVILLE

CONCEPT PLANT SCHEDULE



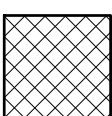
SMALL DECIDUOUS OR ORNAMENTAL TREE
Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry
Carpinus caroliniana / American Hornbeam
Cercis canadensis 'Hearts of Gold' / Forest Pansy Redbud
Cornus florida 'Appalachian Snow' / Dogwood Appalachian Snow
Cornus kousa / Kousa Dogwood
Pistacia chinensis / Chinese Pistache

20



BIOFILTER
Carex stricta / Tussock Sedge
Clethra alnifolia 'Hummingbird' / Summersweet
Cornus sericea 'Arctic Fire' / Arctic Fire Dogwood
Eupatorium dubium 'Little Joe' / Joe-Fly Weed
Ilex verticillata 'Red Sprite' / Red Sprite Winterberry
Iris versicolor / Blue Flag
Itea virginica 'Little Henry' TM / Virginia Sweetspire
Panicum virgatum 'Heavy Metal' / Blue Switch Grass
Rudbeckia fulgida 'Goldstrum' / Coneflower

301 sf

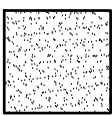


SHRUBS & GRASSES
Aronia arbutifolia 'Brilliantissima' / Brilliant Red Chokeberry/Red Chokeberry
Cornus sericea 'Arctic Fire' / Arctic Fire Dogwood
Geranium x 'Rozanne' TM / Hybrid Cranesbill
Hemerocallis x 'Happy Returns' / Happy Returns Daylily
Hydrangea quercifolia 'Pee Wee' / Oakleaf Hydrangea
Hypericum calycinum 'Brigadoon' / Brigadoon Aarons Beard
Ilex glabra 'Shamrock' / Inkberry
Juniperus conferta 'Blue Pacific' / Blue Pacific Juniper
Nymphaea 'Little Bull' / Little Bull Wax Myrtle
Nepeta racemosa 'Walker's Low' / Catmint
Panicum virgatum 'Hamelin' / Dwarf Fountain Grass
Panicum virgatum 'Shenandoah' / Switch Grass
Prunus laurocerasus 'Otto Luyken' / Luykens Laurel
Solidago canadensis 'Baby Gold' / Goldenrod
Viburnum dentatum 'Arrowwood' / Arrowwood Viburnum

4,021 sf



Existing Tree



SOD

1,141 sf

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm & Sanitary Sewer Data	IE
Construction Alignment Data	IF
BMP Details	2D
Roadway Plan	3
9th Street & Jefferson Street Profile	3A
E&S Phase I Plan	3C
E&S Phase II Plan	3E
Entrance Profiles	3G
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(X)
Traffic Signal Plan	9(X)
Duct Bank Plan	11(X)
Landscape Notes & Schedule	12(1)
Landscape Details	12(2)
Utility Plan	XX

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED

SCALE
0 20' 40'

PROJECT
U000-104-298

SHEET NO.
12(3)

MATCHLINE 9TH STREET CONSTR. @ STA. 28+25.00 - SEE SHEET 12(4)

October 25, 2017 5:20 PM: Bead, Anya
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PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	12(3B)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates, Inc.
Reston, Virginia
LANDSCAPE ARCHITECT

CITY OF CHARLOTTESVILLE

CITY OF CHARLOTTESVILLE, VIRGINIA
& COUNTY OF ALBEMARLE, VIRGINIA

TOWNSQUARE ASSOCIATES

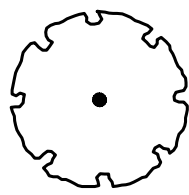
MARKET STREET PARKING
AND ENTRANCES BEING
FINALIZED

CITY OF CHARLOTTESVILLE

CITY OF CHARLOTTESVILLE, VA.

MATCHLINE 9TH STREET CONSTR. @ STA. 105+25.00 - SEE SHEET 12(3)

CONCEPT PLANT SCHEDULE



LARGE CANOPY TREE
Gleditsia tricanthos inermis "Shademaster" TM / Shademaster Locust
Liquidambar styraciflua "Rotundiloba" TM / Round-Lobed Sweet Gum
Platanus x acerifolia "Bloodgood" / London Plane Tree
Quercus coccinea / Scarlet Oak
Quercus phellos / Willow Oak
Ulmus americana "Princeton" / American Elm

4



SOD

669 sf



Existing Tree

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm & Sanitary	IE
Sewer Data	
Construction Alignment Data	IF
Roadway Plan	3B
E&S Phase I Plan	3D
E&S Phase II Plan	3F
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(3B)
Duct Bank Plan	11(3B)
Landscape Notes & Schedule	12(1)
Landscape Details	12(2)
Utility Plan	XX

PUBLIC HEARING PLANS

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
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DESIGN IS FINALIZED

SCALE
0 20' 40'

PROJECT
U000-104-298

SHEET NO.
12(3B)

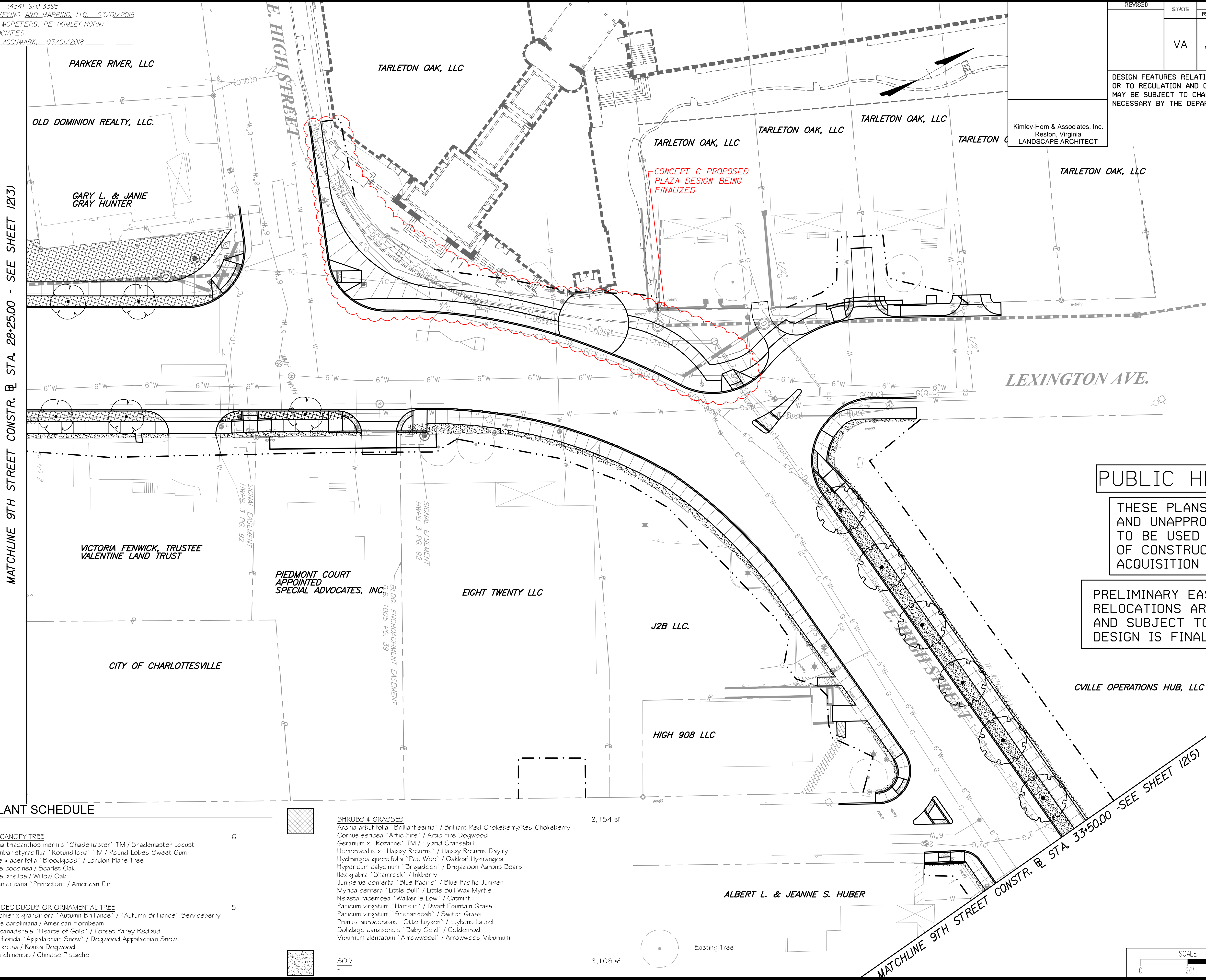
October 25, 2017 5:20 PM Brian, Alyssa
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PROJECT MANAGER: TIM MITSCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BBIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 03/01/2018

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 C-501	12(4)

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Kimley-Horn & Associates, Inc.
Reston, Virginia
LANDSCAPE ARCHITECT

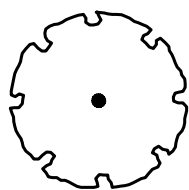


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DESIGN IS FINALIZED

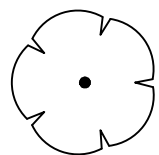
CONCEPT PLANT SCHEDULE



LARGE CANOPY TREE

Gleditsia tracanthos inermis "Shademaster" TM / Shademaster Locust
Liquidambar styraciflua "Rotundiloba" TM / Round-Lobed Sweet Gum
Platanus x acenifolia "Bloodgood" / London Plane Tree
Quercus coccinea / Scarlet Oak
Quercus phellos / Willow Oak
Ulmus americana "Princeton" / American Elm

6



SMALL DECIDUOUS OR ORNAMENTAL TREE

Amelanchier x grandiflora "Autumn Brilliance" / "Autumn Brilliance" Serviceberry
Carpinus caroliniana / American Hornbeam
Cercis canadensis "Hearts of Gold" / Forest Pansy Redbud
Cornus florida "Appalachian Snow" / Dogwood Appalachian Snow
Cornus kousa / Kousa Dogwood
Pistacia chinensis / Chinese Pistache

5

SHRUBS & GRASSES

Aronia arbutifolia "Brilliantissima" / Brilliant Red Chokeberry/Red Chokeberry
Cornus sericea "Arctic Fire" / Arctic Fire Dogwood
Geranium x "Rozanne" TM / Hybrid Cranesbill
Hemerocallis x "Happy Returns" / Happy Returns Daylily
Hydrangea quercifolia "Pee Wee" / Oakleaf Hydrangea
Hypocnemis calycinum "Brigadoon" / Brigadoon Aaron's Beard
Ilex glabra "Shamrock" / Inkberry
Juniperus conferta "Blue Pacific" / Blue Pacific Juniper
Myrica cerifera "Little Bull" / Little Bull Wax Myrtle
Nepeta racemosa "Walker's Low" / Catmint
Panicum virgatum "Hamelin" / Dwarf Fountain Grass
Panicum virgatum "Shenandoah" / Switch Grass
Prunus laurocerasus "Otto Luyken" / Luykens Laurel
Solidago canadensis "Baby Gold" / Goldenrod
Viburnum dentatum "Arrowwood" / Arrowwood Viburnum

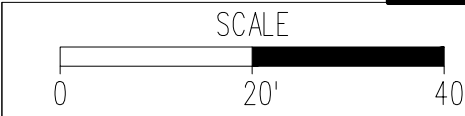
2,154 sf

SOD

3,108 sf

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

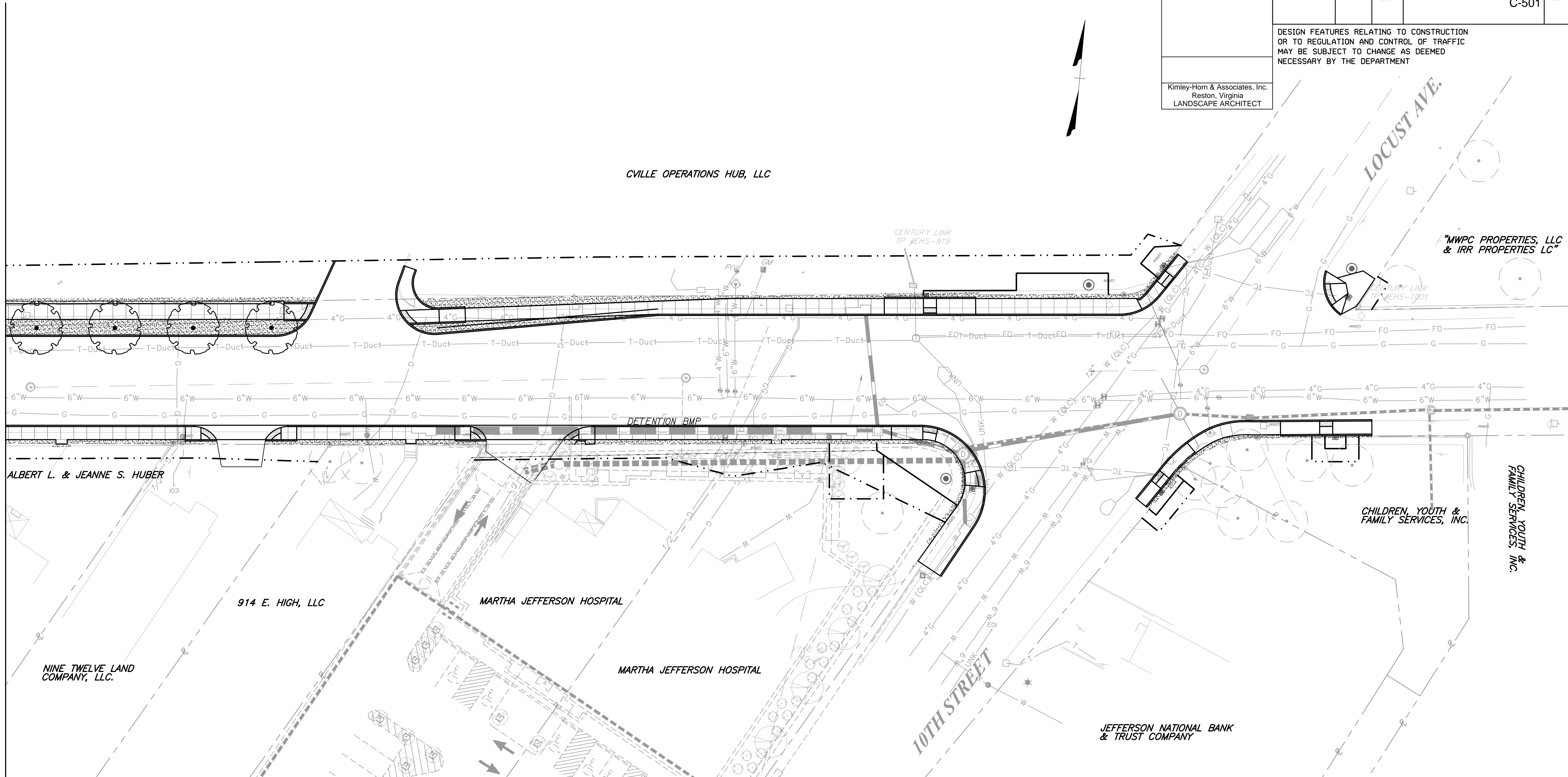
Survey Alignment Data	ID
Existing Storm & Sanitary	IE
Sewer Data	
Construction Alignment Data	IF
Roadway Plan	4
9th Street Profile	4A
E. High Street Profile	4A
Lexington Avenue Profile	4A
9.5 Street Profile	4A
E&S Phase I Plan	4B
E&S Phase II Plan	4C
Entrance Profiles	4D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(4)
Traffic Signal Plan	9(3)
Duct Bank Plan	11(4)
Landscape Notes & Schedule	12(1)
Landscape Details	12(2)
Utility Plan	XX



PROJECT	SHEET NO.
U000-104-298	12(4)

October 25, 2017 5:20 PM: Bead, Aynia
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MAY BE SUBJECT TO CHANGE AS DEEMED
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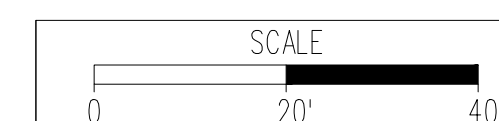
4

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm & Sanitary Sewer Data	1E
Construction Alignment Data	1F
Roadway Plan	5
9th Street Profile	5A
E&S Phase I Plan	5B
E&S Phase II Plan	5C
Entrance Profiles	5D
Drainage Descriptions	XX
Storm Profiles	XX
Lighting Plan	8(5)
Traffic Signal Plan	9(4)
Duct Bank Plan	11(5)
Landscape Notes & Schedule	12(1)
Landscape Details	12(2)
Utility Plan	XX

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PRELIMINARY EASEMENTS FOR UTILITY
RELOCATIONS ARE APPROXIMATE ONLY
AND SUBJECT TO CHANGE AS PROJECT
DESIGN IS FINALIZED



PROJECT
U000-104-298

SHEET NO.
12(5)

PROJECT MANAGER: MOISCH (334) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES

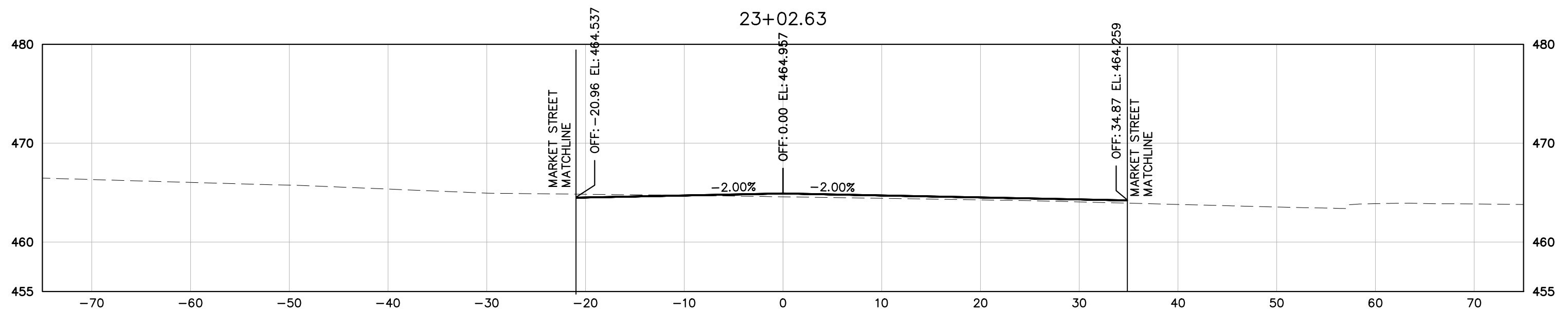
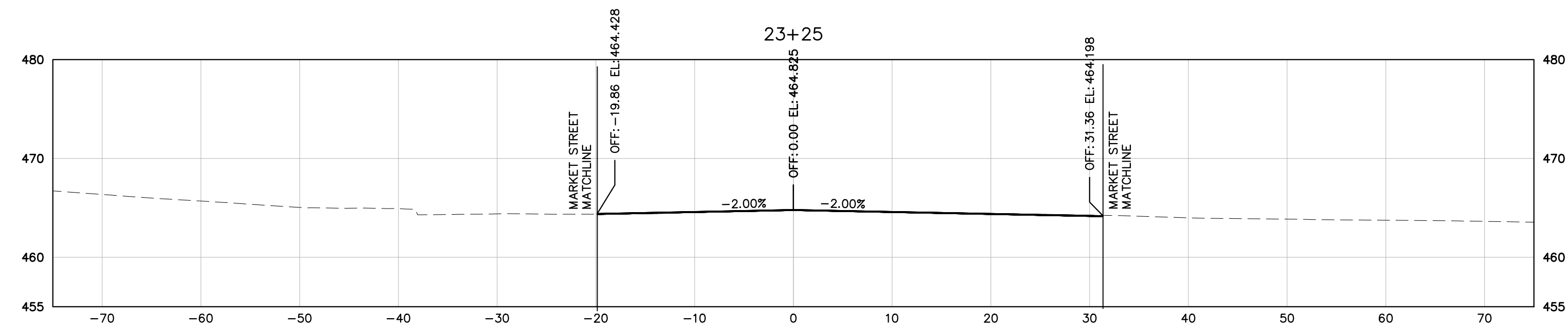
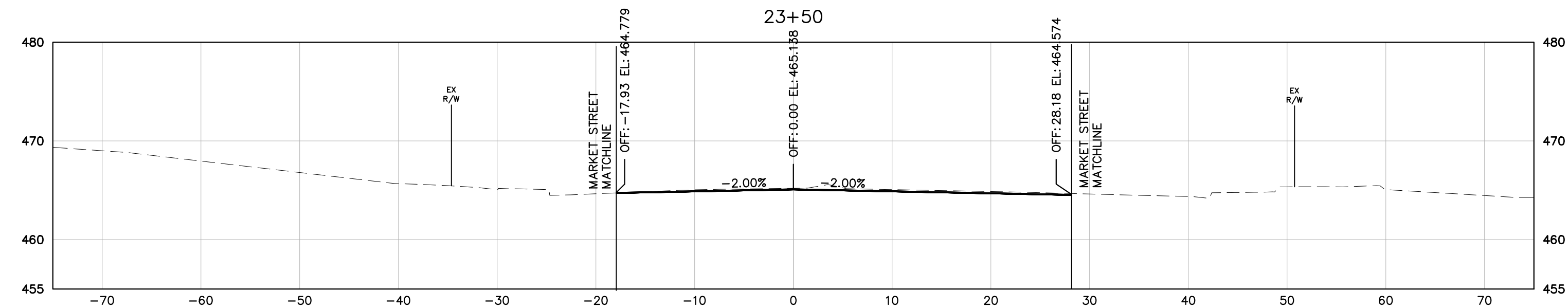
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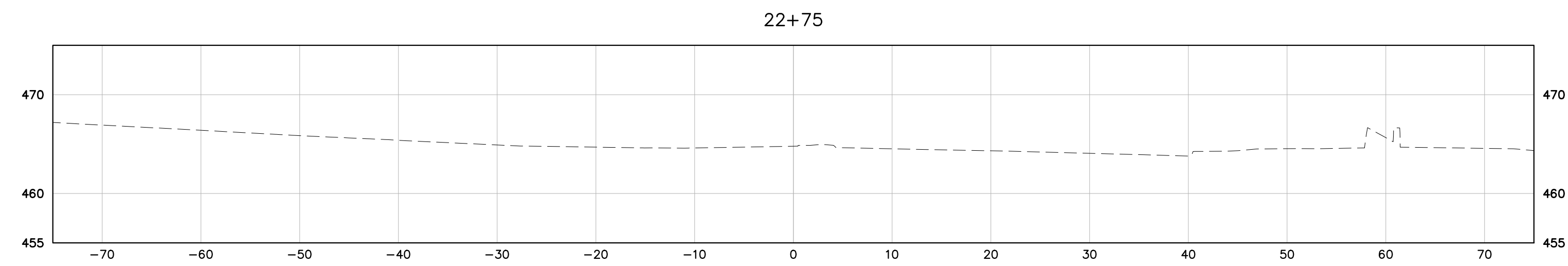
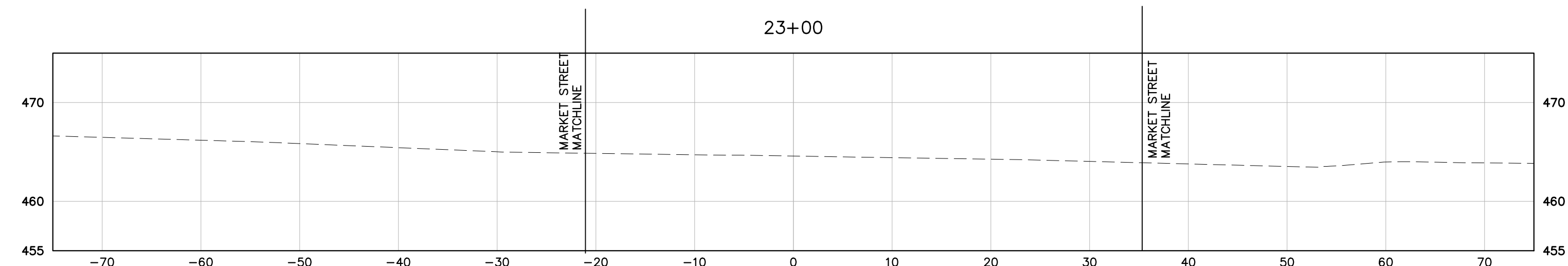
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	1

CROSS-SECTION INDEX

1-21 9TH STREET
22 E HIGH STREET
23 LEXINGTON AVENUE



BEGIN PROJ. U000-104-298 PE-101, C-501 STA 23+02.63 9TH ST. CONSTR.



9TH STREET (ROUTE 20)
STATION 22+75 TO STATION 23+50

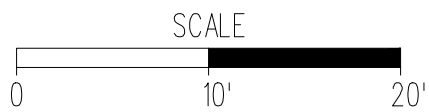
PROJECT	SHEET NO.
U000-104-298	1

October 25, 2017 5:20 PM: Bead, Ayoa
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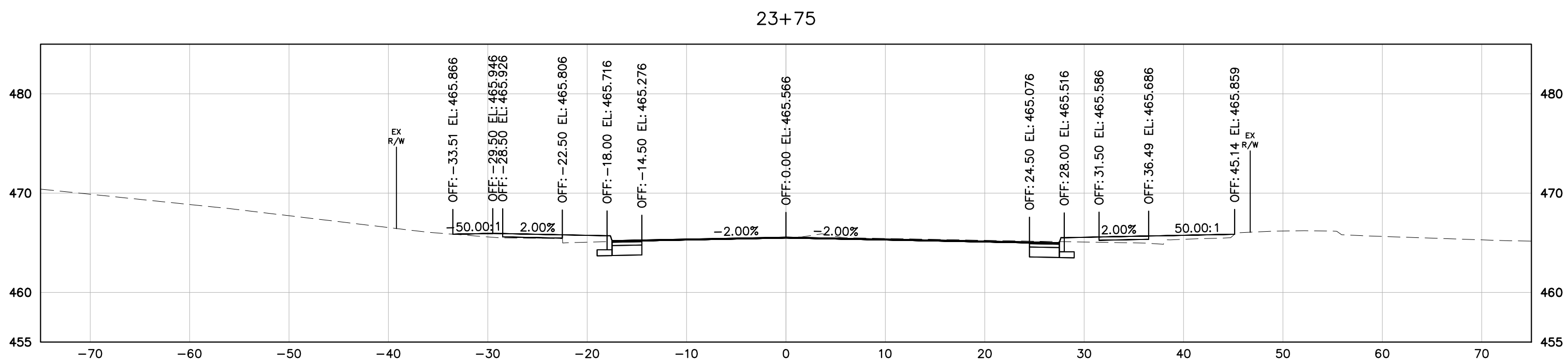
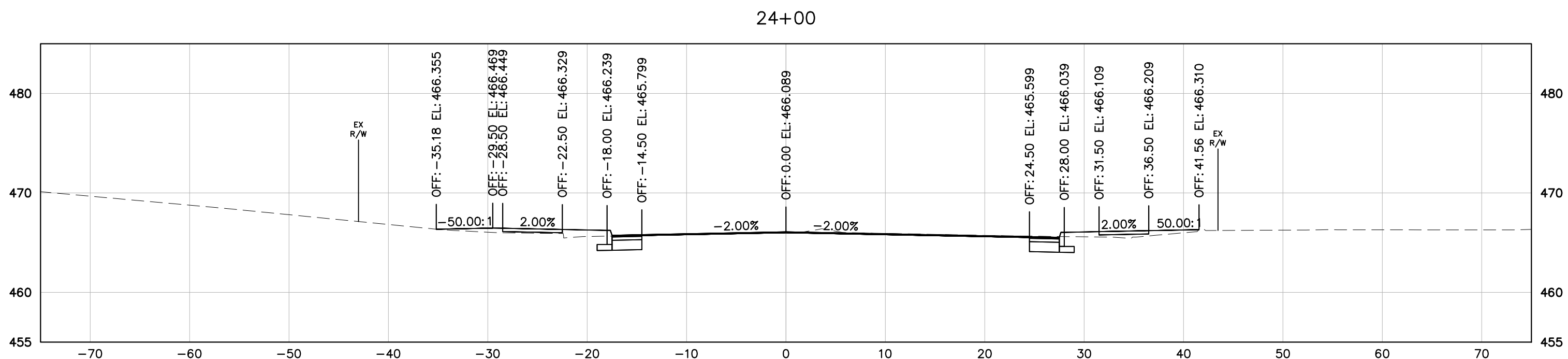
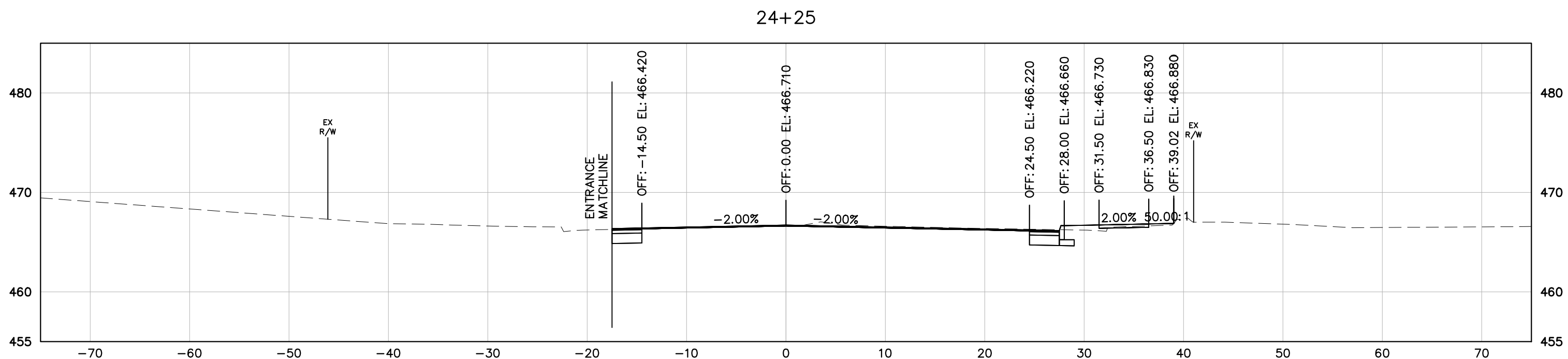
PROJECT MANAGER TIM MOISCH (434) 970-3395
SURVEYED BY, DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY KIMLEY-HORN & ASSOCIATES

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OF CONSTRUCTION.

CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	2



9TH STREET (ROUTE 20)
STATION 23+75 TO STATION 24+25

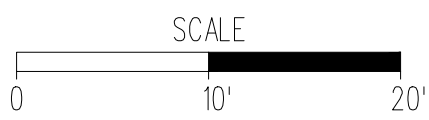
PROJECT	SHEET NO.
U000-104-298	2

October 25, 2017 5:20 PM Bead, Atyeo
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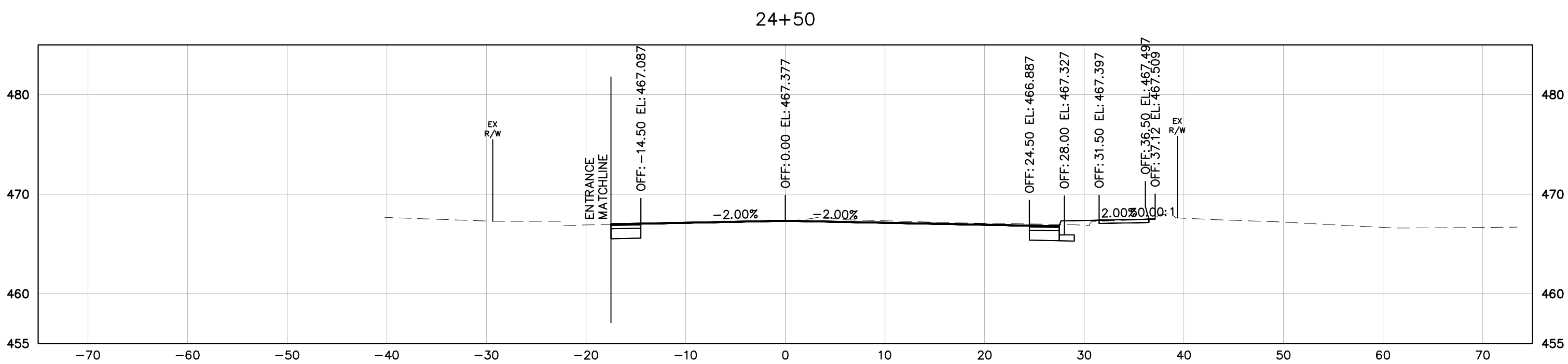
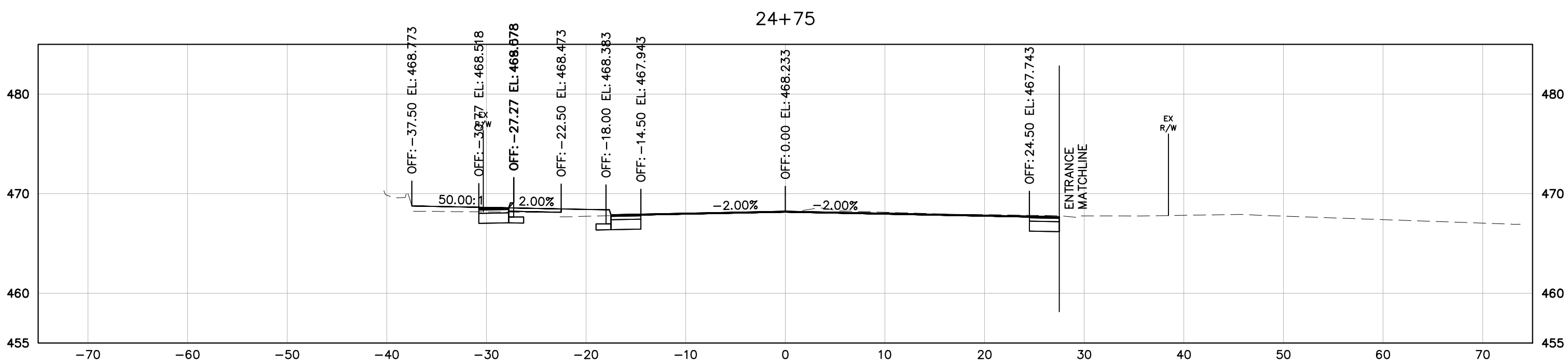
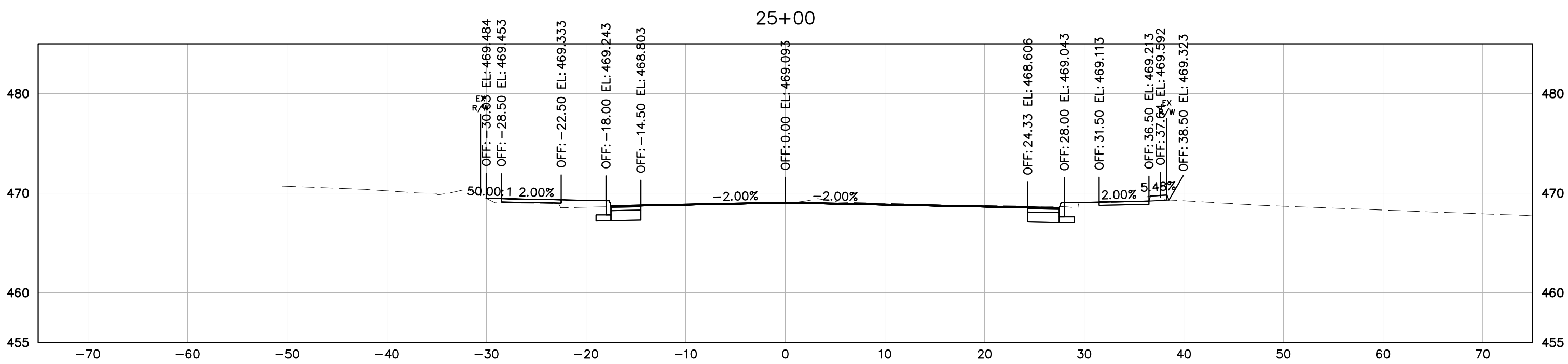
PROJECT MANAGER: TM MOISCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES

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CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	3



9TH STREET (ROUTE 20)
STATION 24+50 TO STATION 25+00

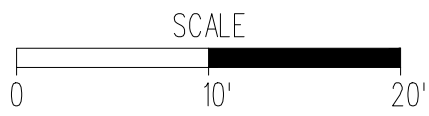
PROJECT	SHEET NO.
U000-104-298	3

October 25, 2017 5:20 PM Bead, Atyeo
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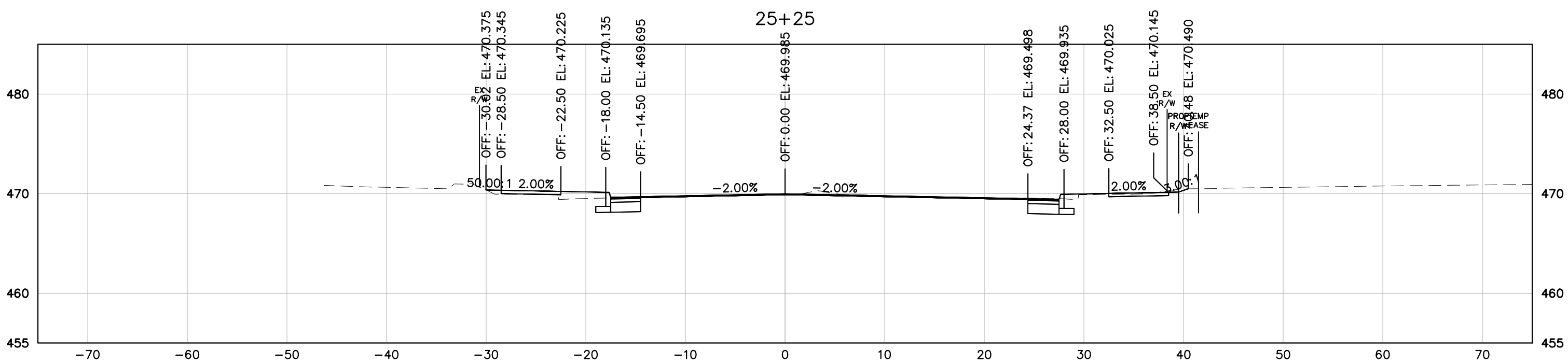
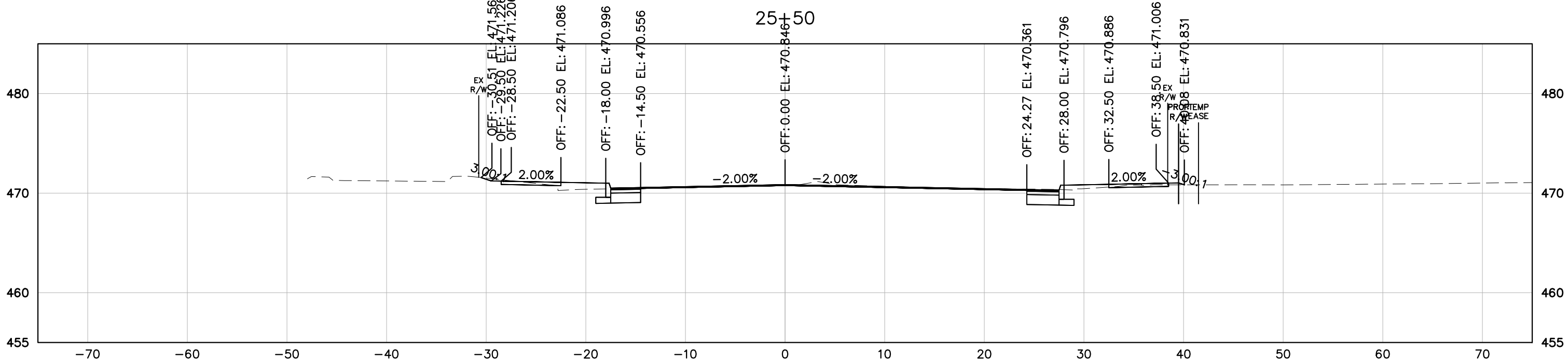
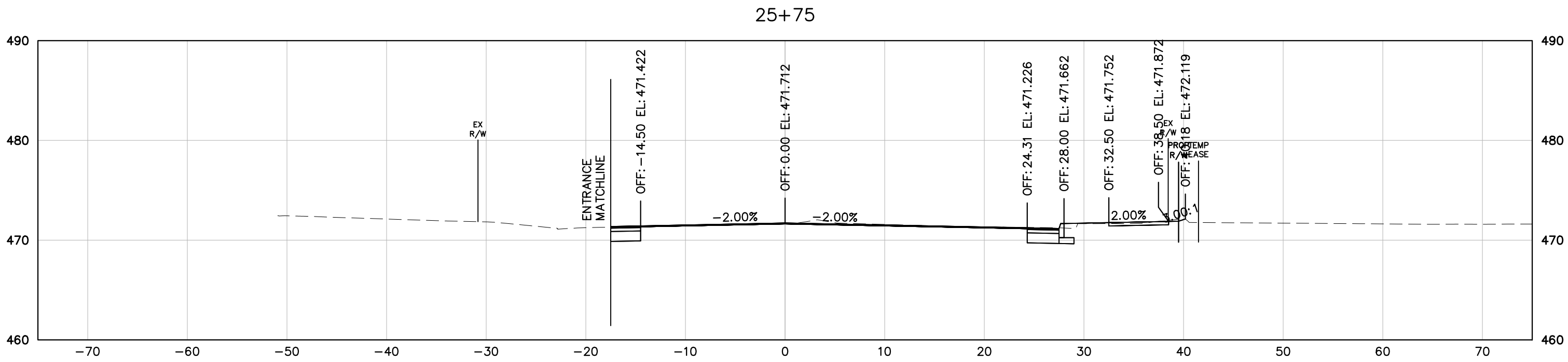
PROJECT MANAGER: W. MOISCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	4



9TH STREET (ROUTE 20)
STATION 25+25 TO STATION 25+75

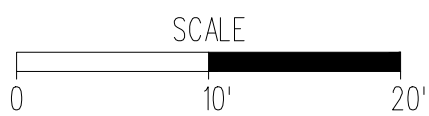
PROJECT	SHEET NO.
U000-104-298	4

October 25, 2017 5:20 PM Bead, Alysia
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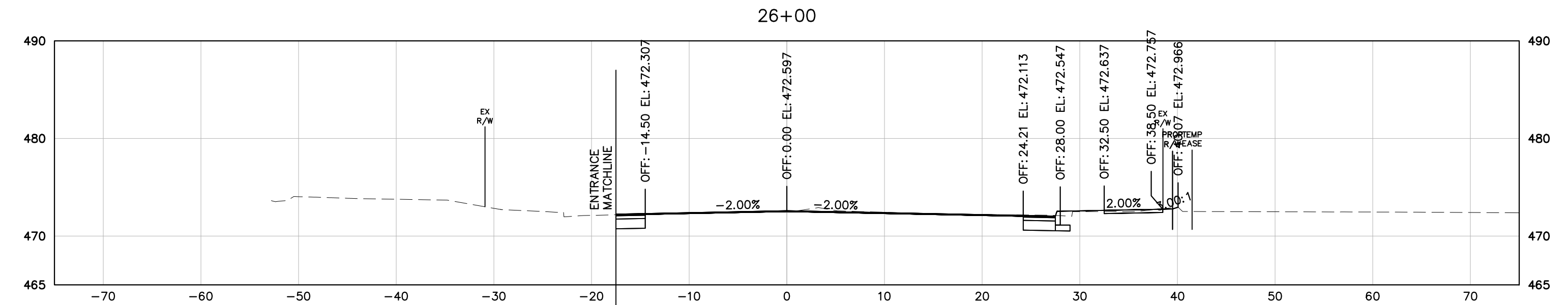
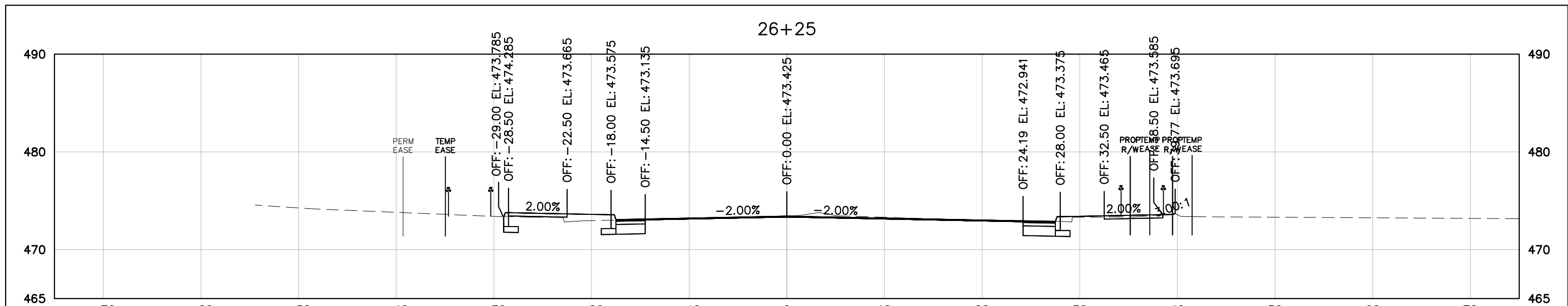
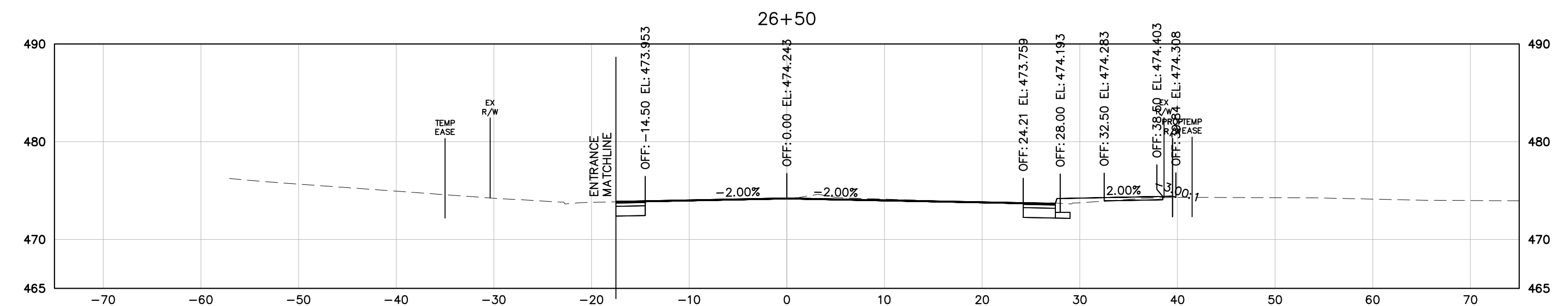
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	5



9TH STREET (ROUTE 20)
STATION 26+00 TO STATION 26+50

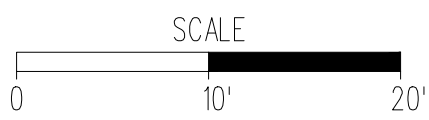
PROJECT	SHEET NO.
U000-104-298	5

October 25, 2017 5:20 PM Bead, Ajaeo
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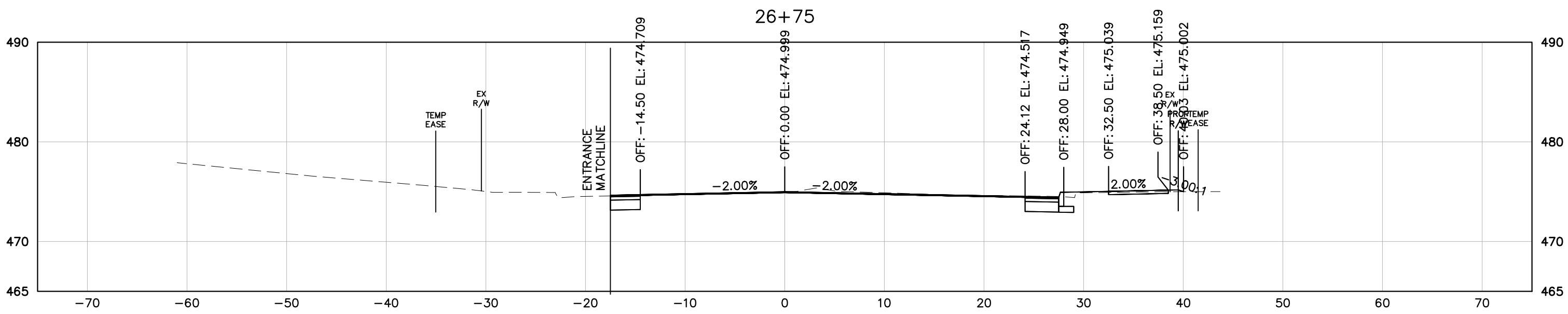
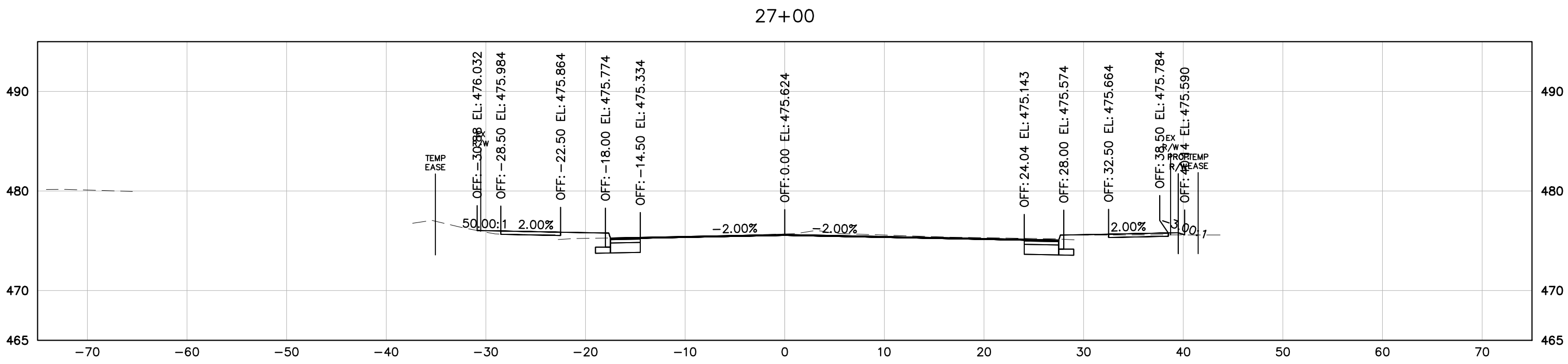
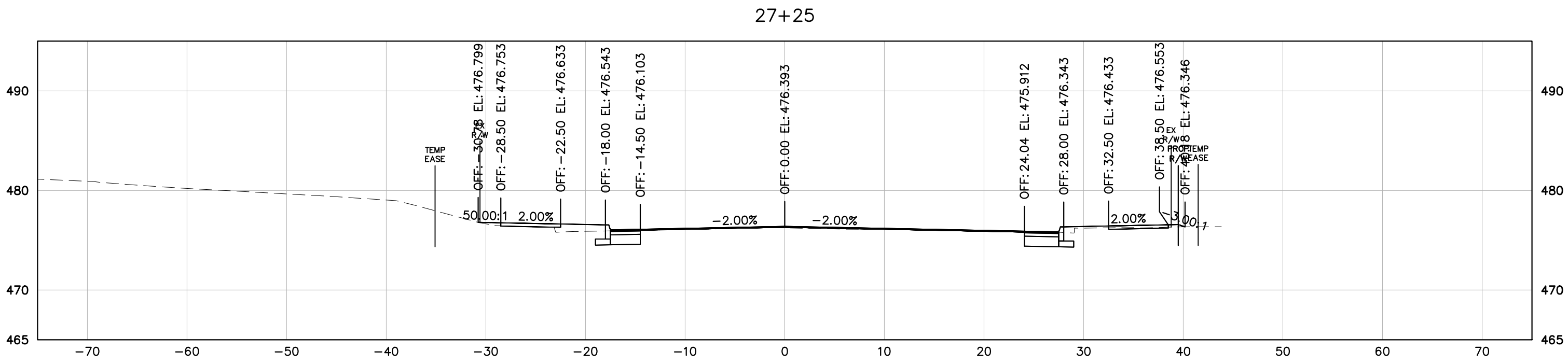
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	6



9TH STREET (ROUTE 20)
STATION 26+75 TO STATION 27+25

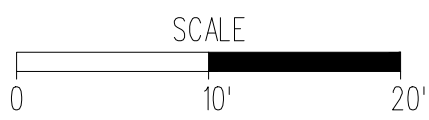
PROJECT	SHEET NO.
U000-104-298	6

October 25, 2017 5:20 PM: Bead, Atyeo
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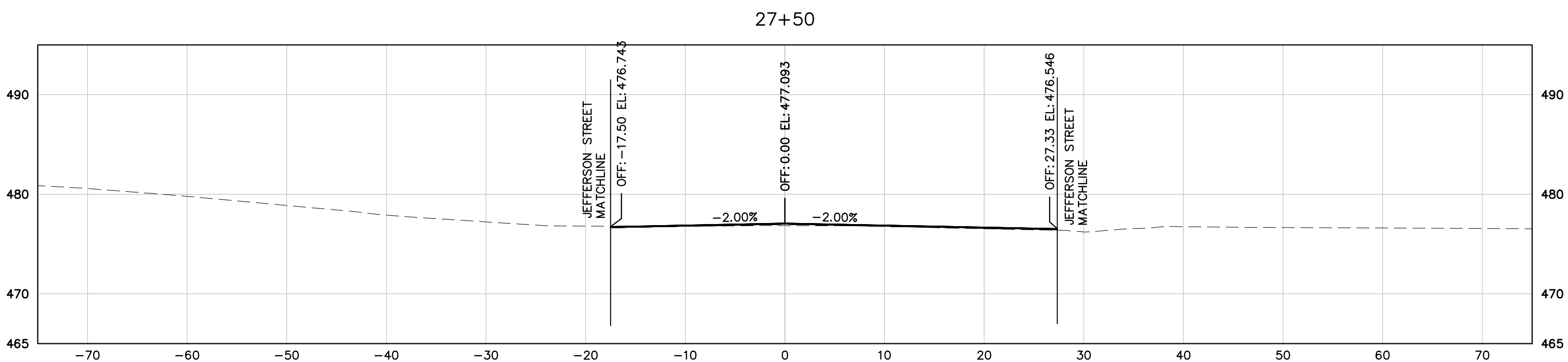
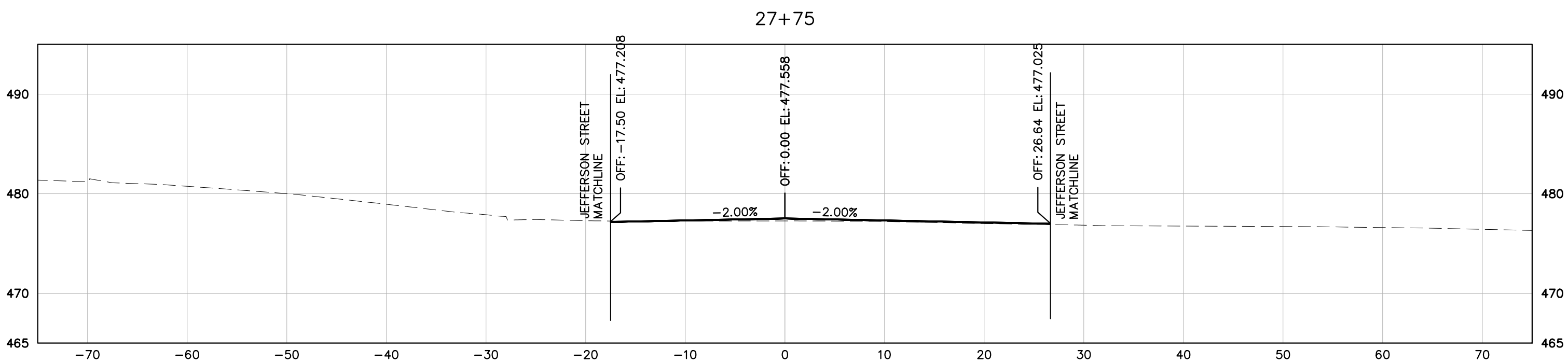
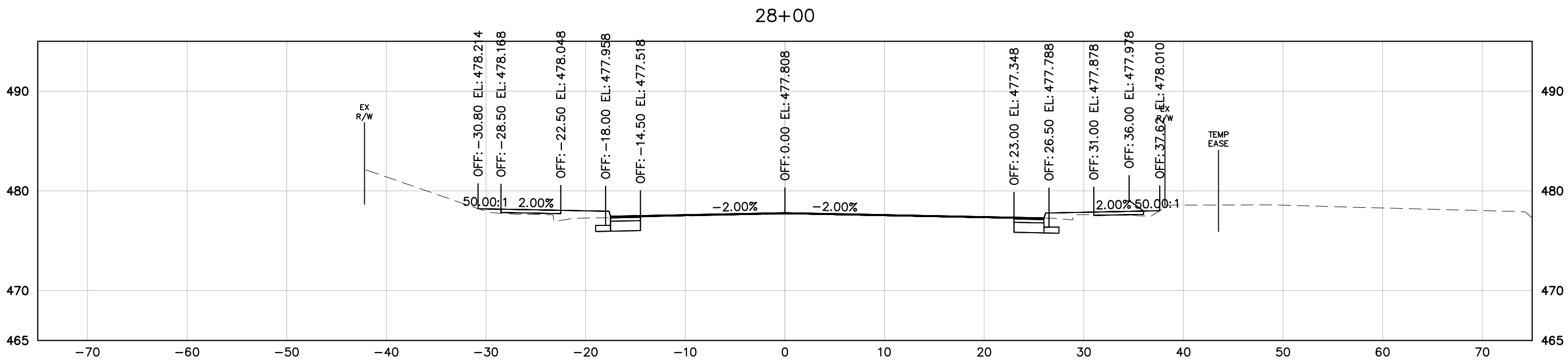
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	7



9TH STREET (ROUTE 20)
STATION 27+50 TO STATION 28+00

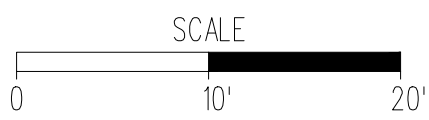
PROJECT	SHEET NO.
U000-104-298	7

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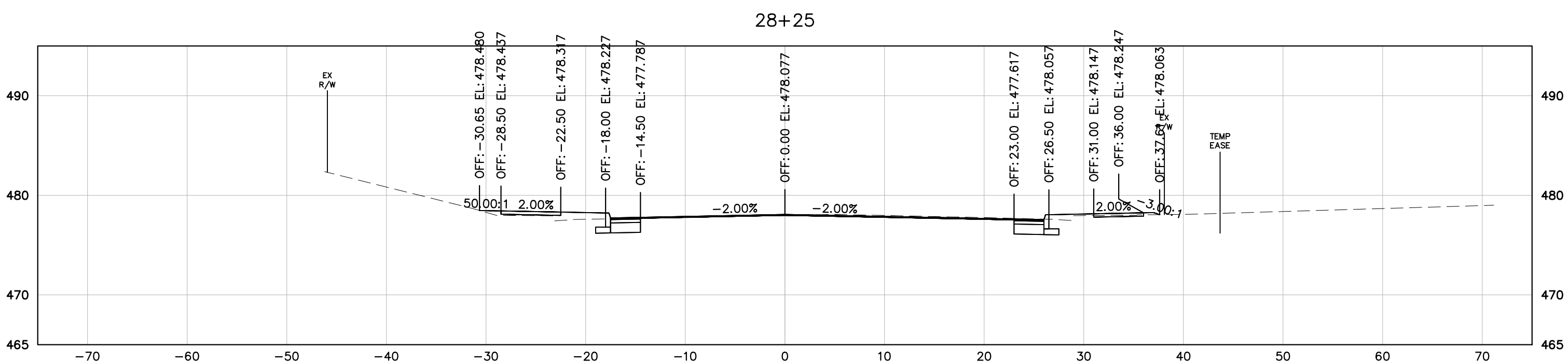
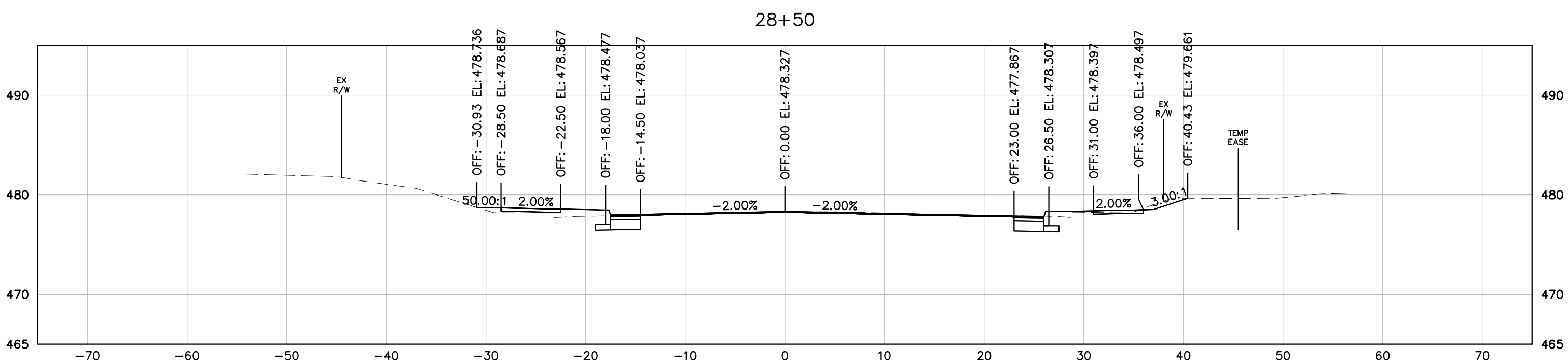
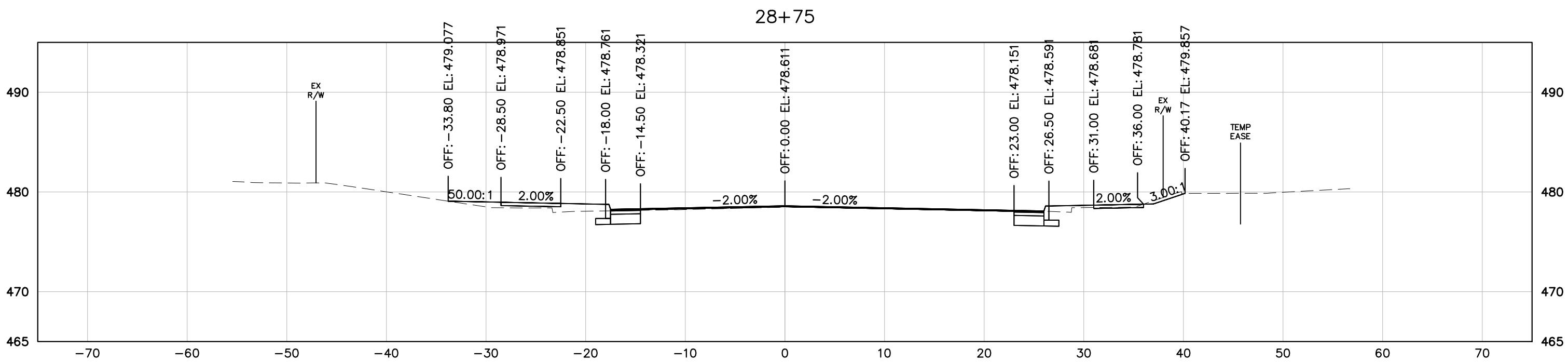
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	8



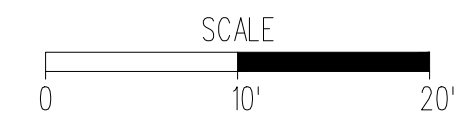
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STATION 28+25 TO STATION 28+75

PROJECT	SHEET NO.
U000-104-298	8

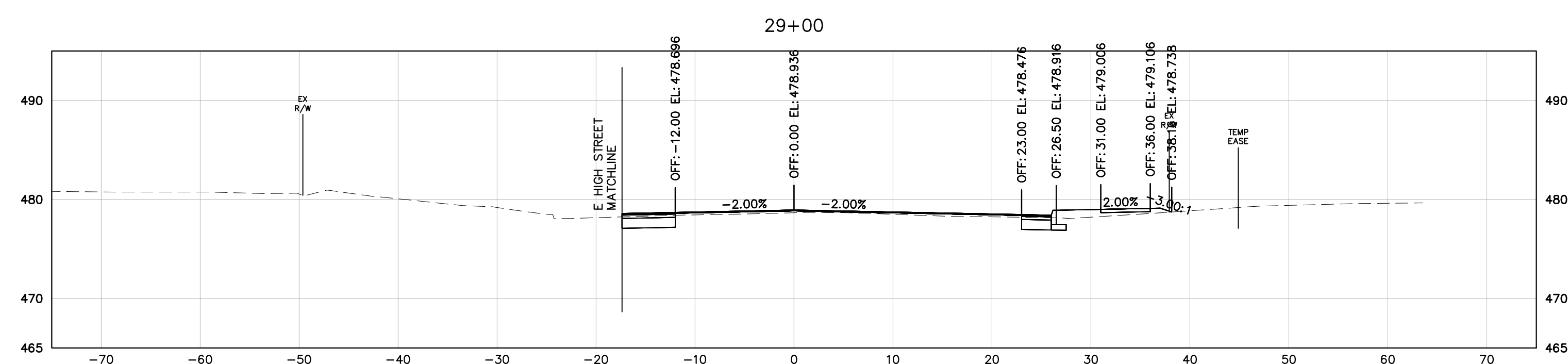
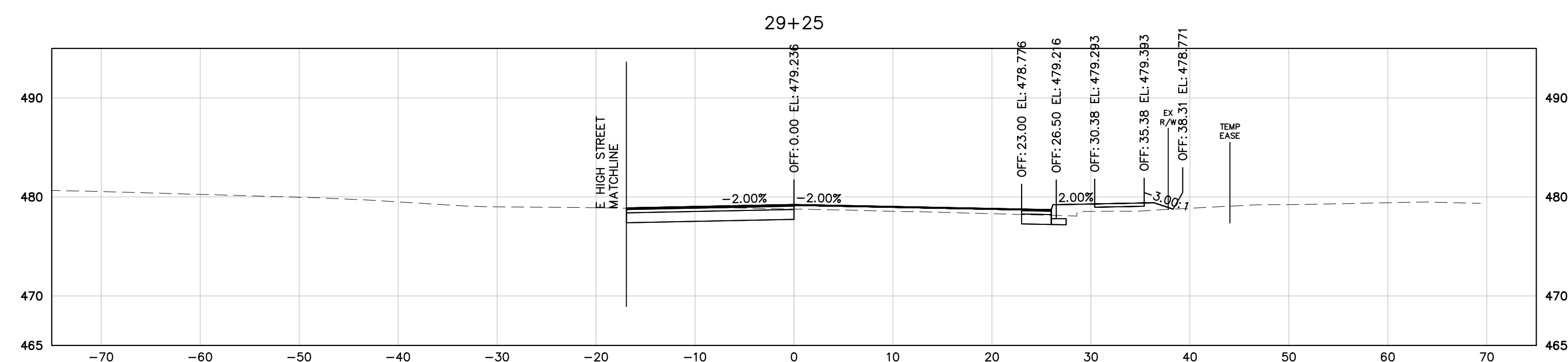
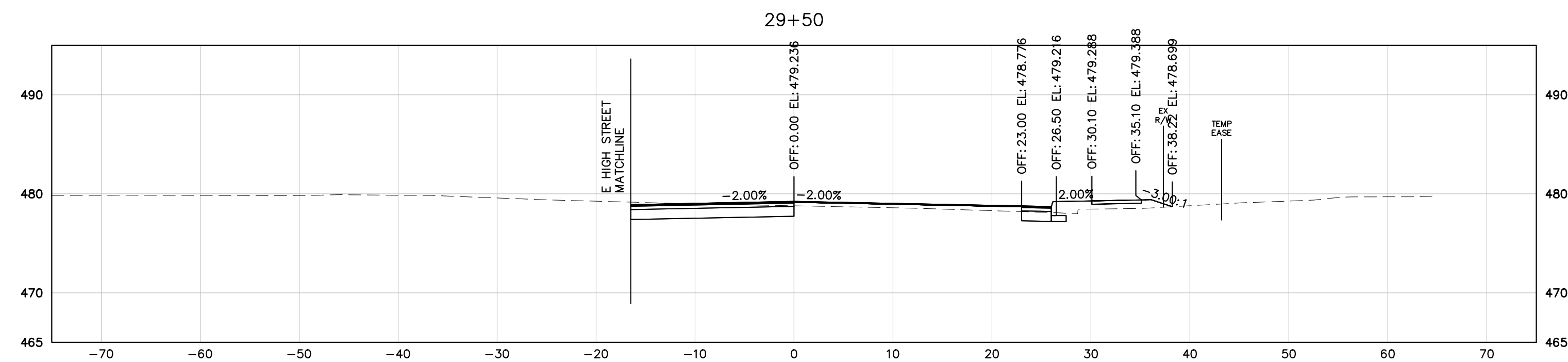
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REVISED	STATE	STATE		SHEET NO.
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	VA	20	U000-104-298 RW-201, C-501	9



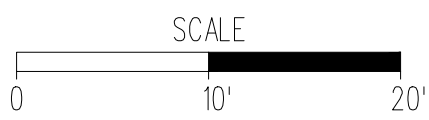
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STATION 29+00 TO STATION 29+50

PROJECT U000-104-298	SHEET NO. 9
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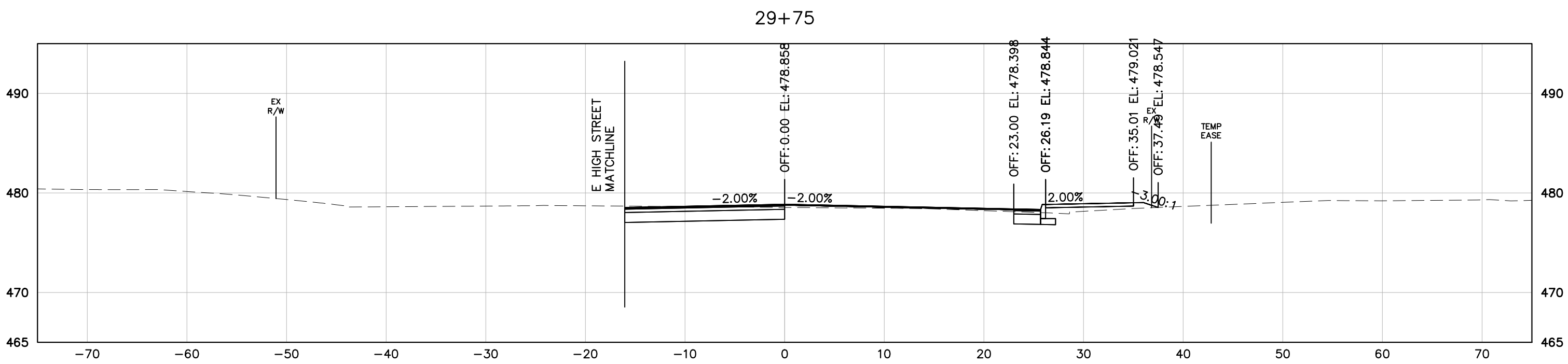
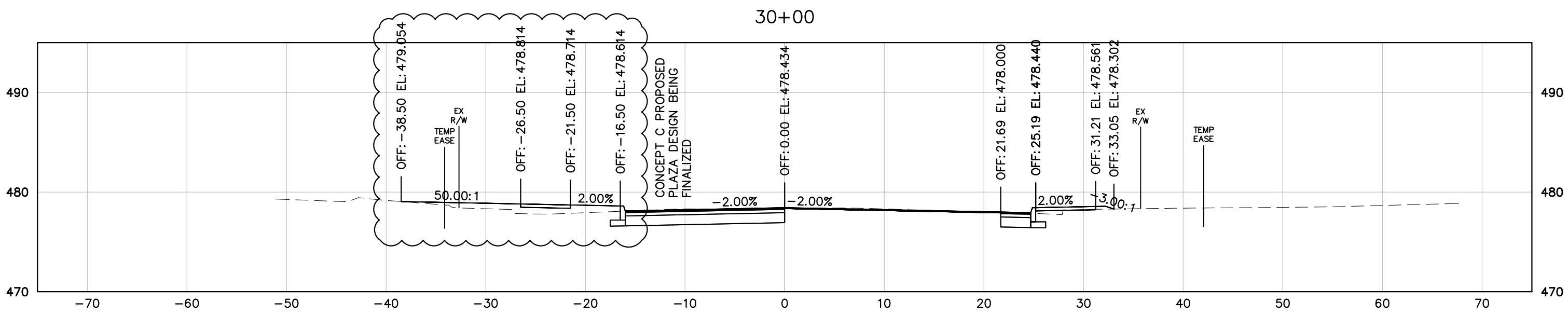
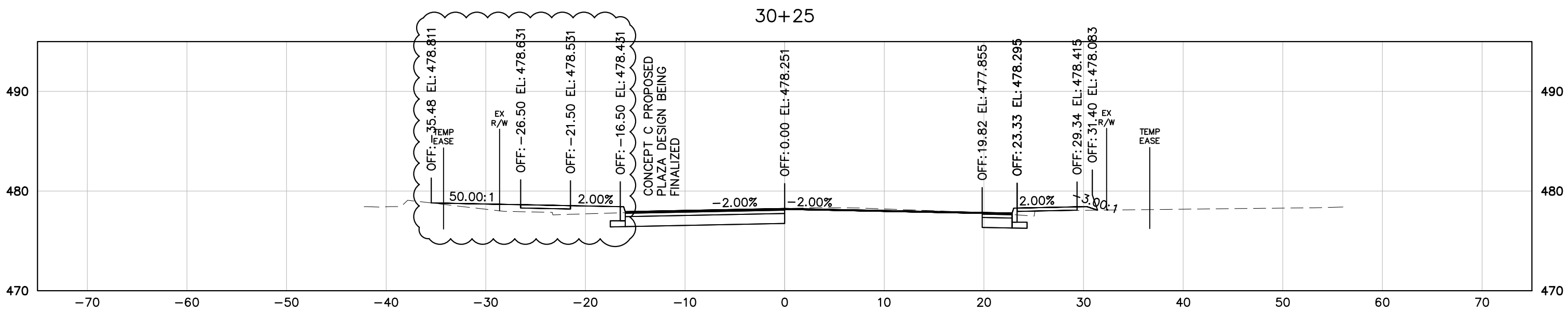
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SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	10



9TH STREET (ROUTE 20)
STATION 29+75 TO STATION 30+25

PROJECT	SHEET NO.
U000-104-298	10

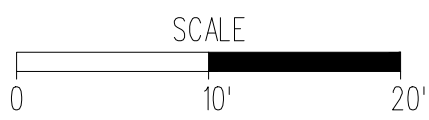
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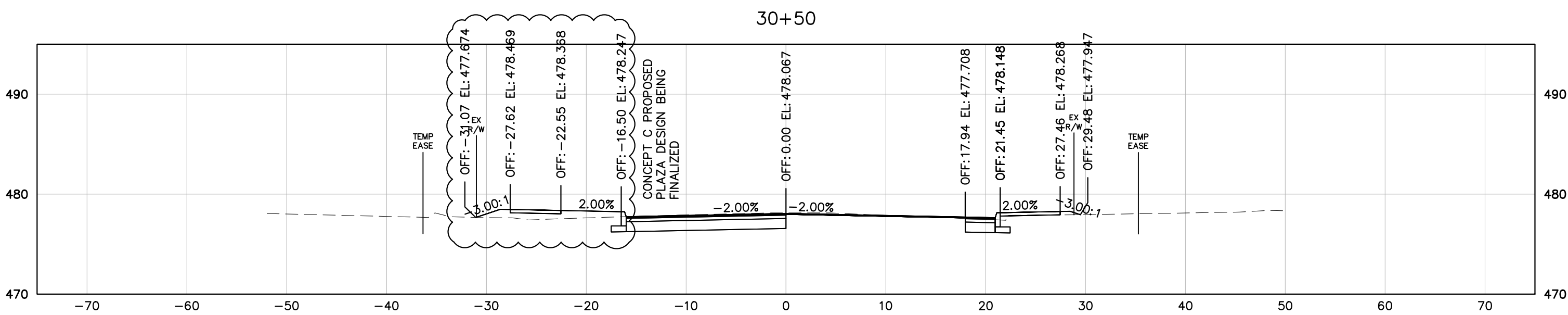
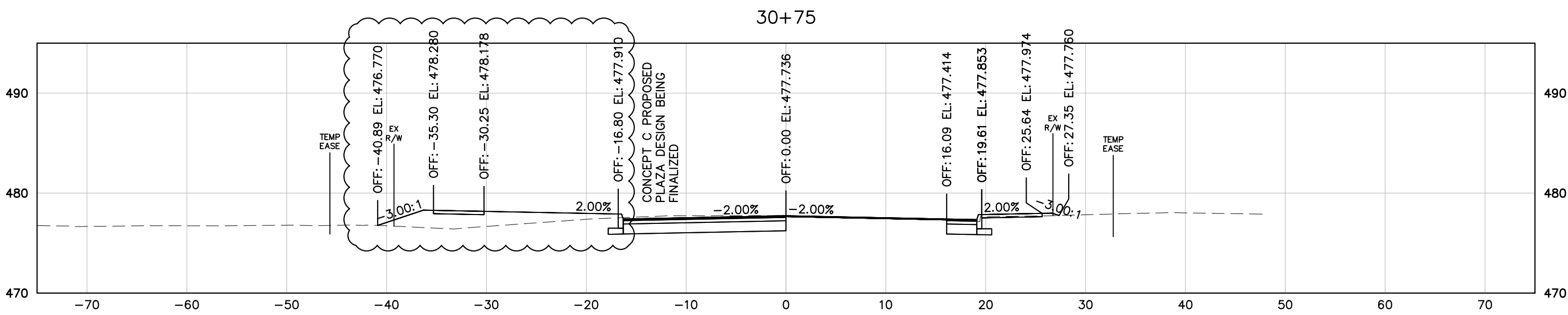
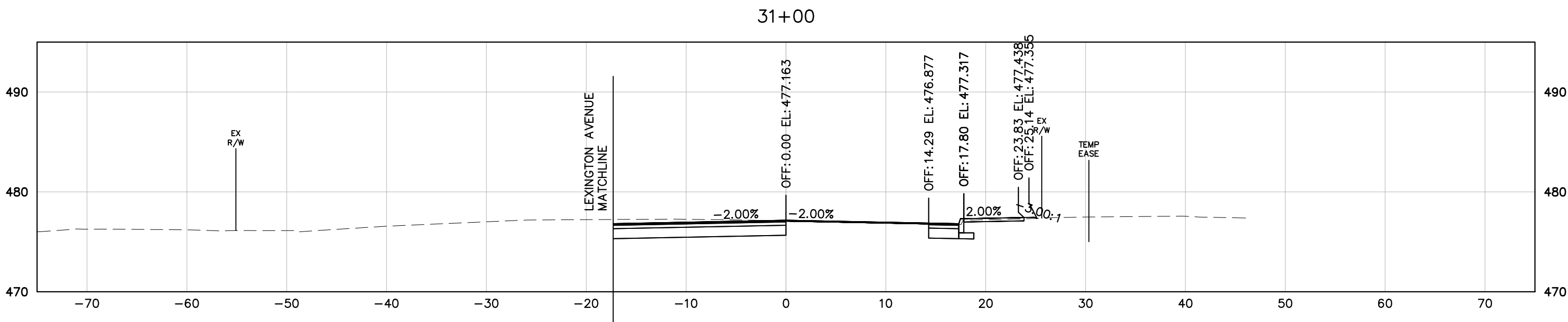
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	11



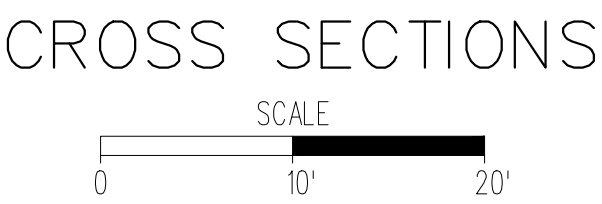
9TH STREET (ROUTE 20)
STATION 30+50 TO STATION 31+00

PROJECT	SHEET NO.
U000-104-298	11

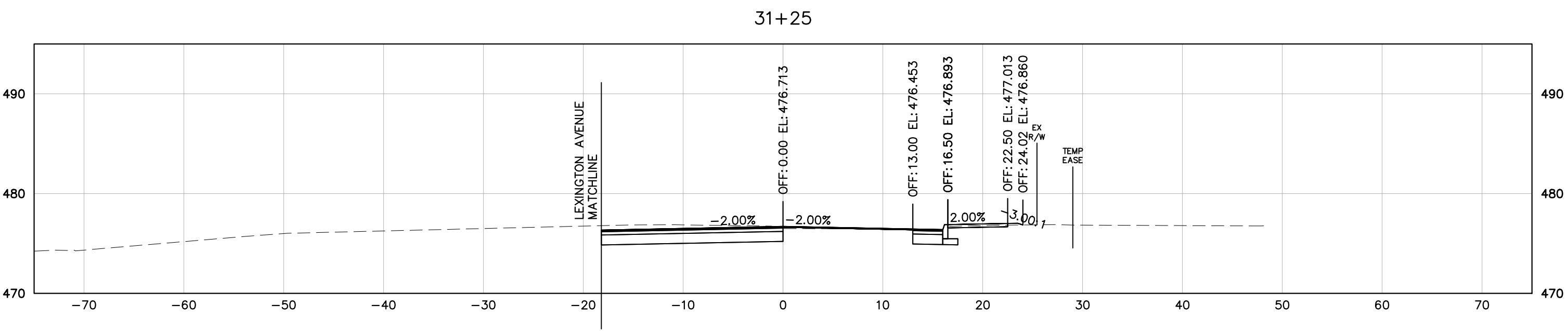
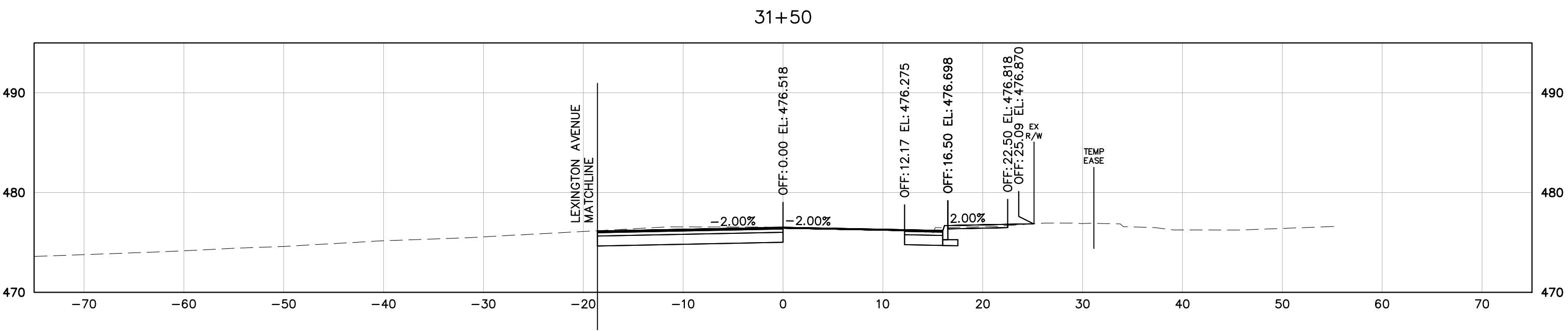
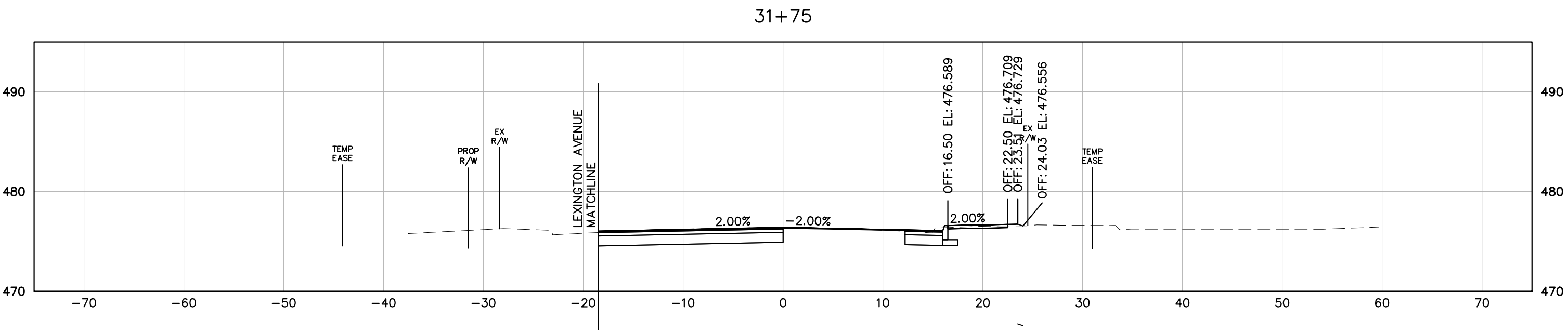
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DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	12



9TH STREET (ROUTE 20)
STATION 31+25 TO STATION 31+75

PROJECT	SHEET NO.
U000-104-298	12

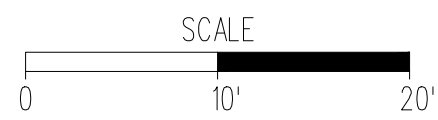
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PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES

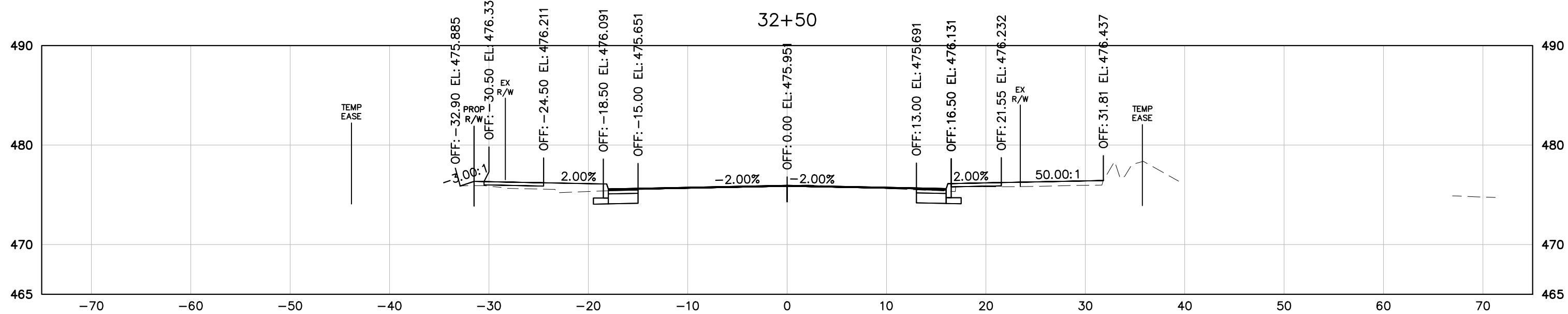
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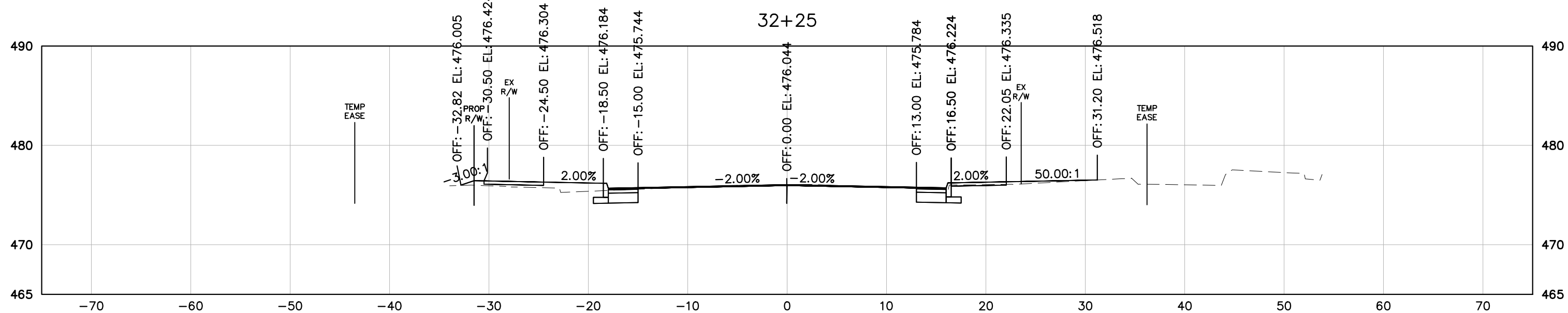


REVISED	STATE	STATE		SHEET NO.
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	VA	20	U000-104-298 RW-201, C-501	13

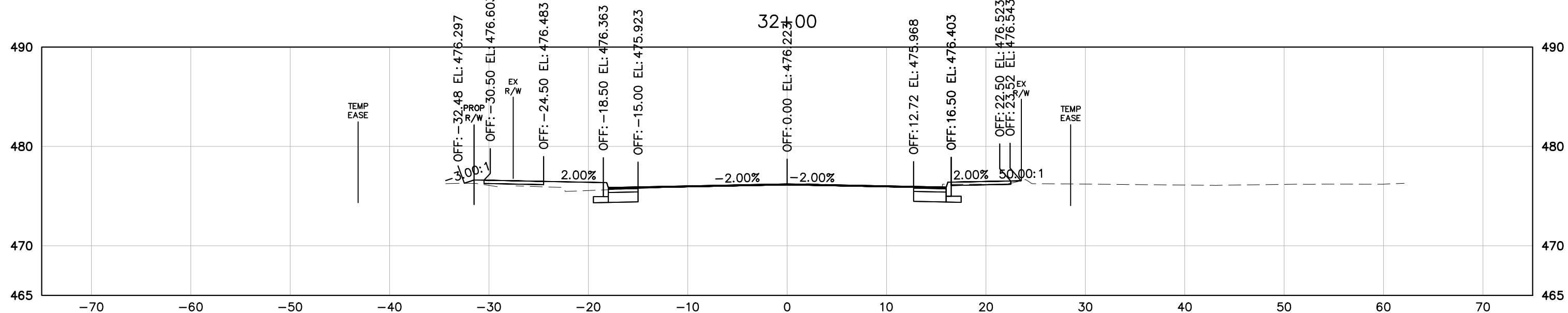
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REQUIRED



NOTE: ADDITIONAL SURVEY
REQUIRED



NOTE: ADDITIONAL SURVEY
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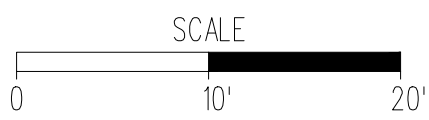
9TH STREET (ROUTE 20)
STATION 32+00 TO STATION 32+50

PROJECT	SHEET NO.
U000-104-298	13

PROJECT MANAGER: M. MOISCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES

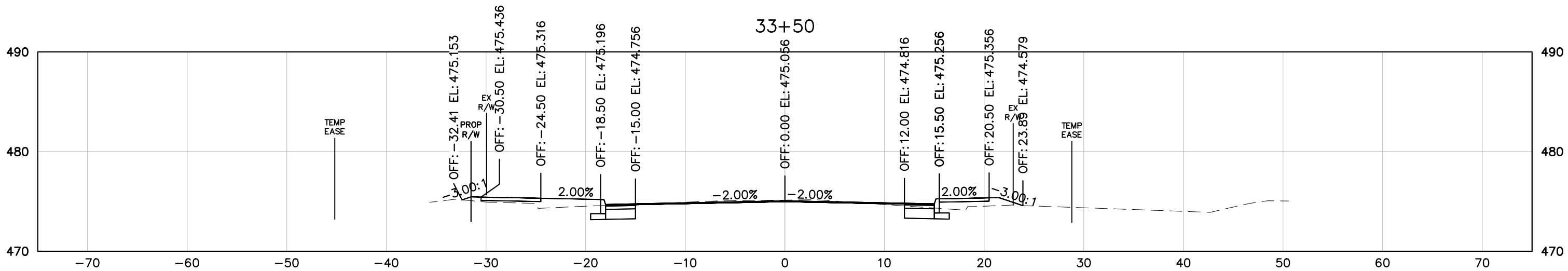
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CROSS SECTIONS

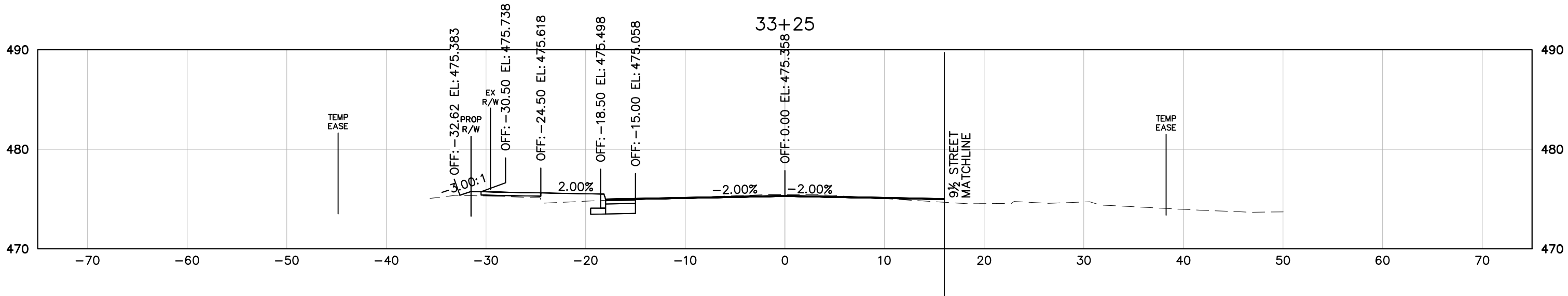


REVISED	STATE	STATE		SHEET NO.
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	VA	20	U000-104-298 RW-201, C-501	14

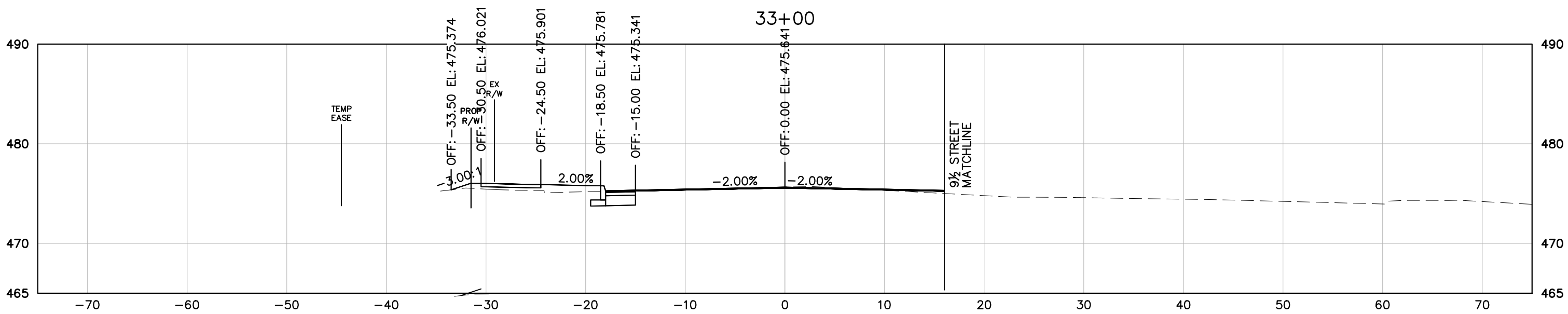
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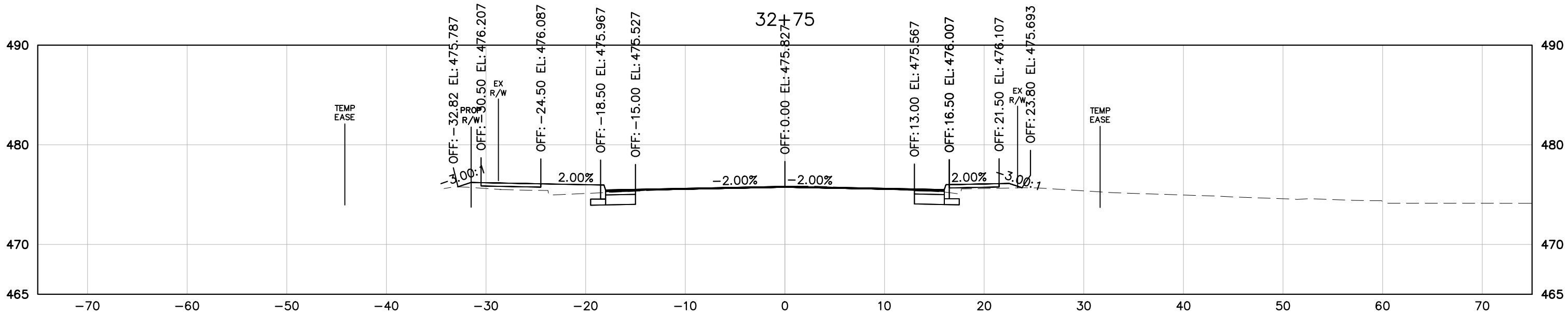
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REQUIRED



NOTE: ADDITIONAL SURVEY
REQUIRED



NOTE: ADDITIONAL SURVEY
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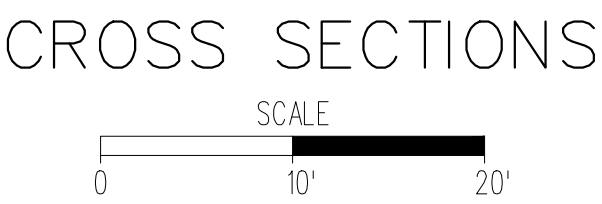
9TH STREET (ROUTE 20)
STATION 32+75 TO STATION 33+50

PROJECT	SHEET NO.
U000-104-298	14

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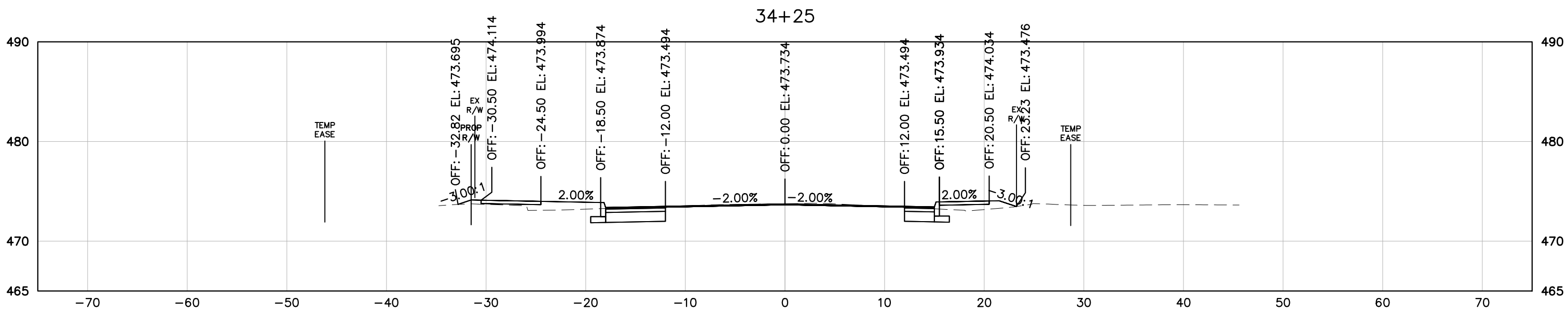
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
DESIGN BY: KIMLEY-HORN & ASSOCIATES

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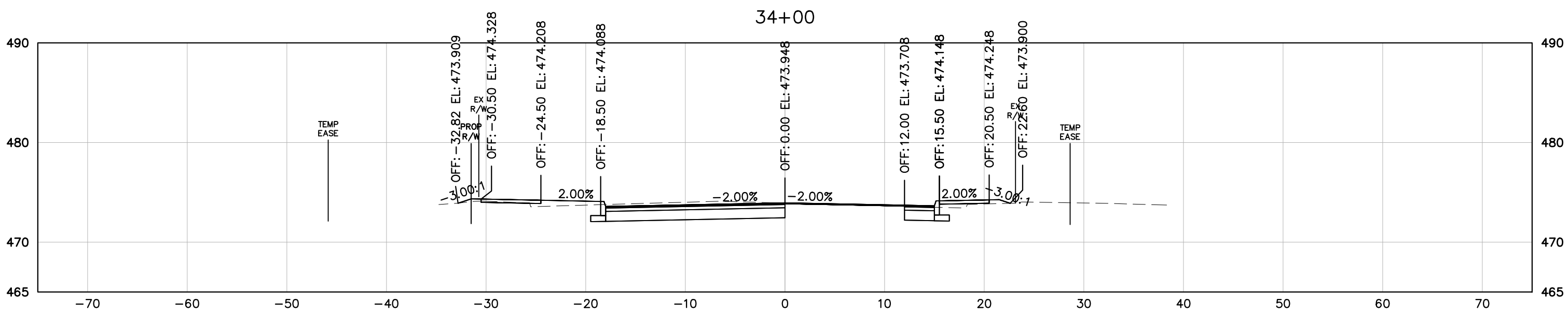


REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	15

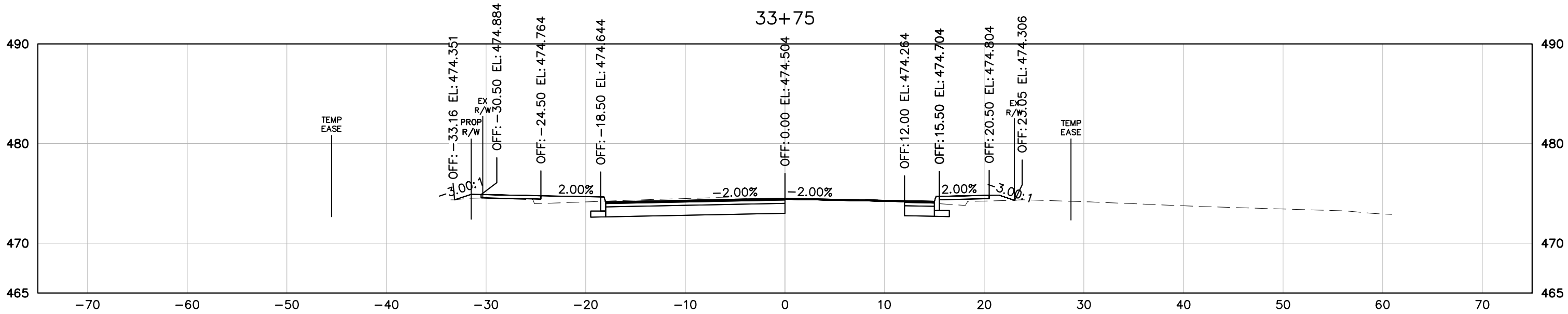
NOTE: ADDITIONAL SURVEY
REQUIRED



NOTE: ADDITIONAL SURVEY
REQUIRED



NOTE: ADDITIONAL SURVEY
REQUIRED



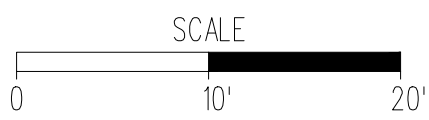
9TH STREET (ROUTE 20)
STATION 33+75 TO STATION 34+25

PROJECT	SHEET NO.
U000-104-298	15

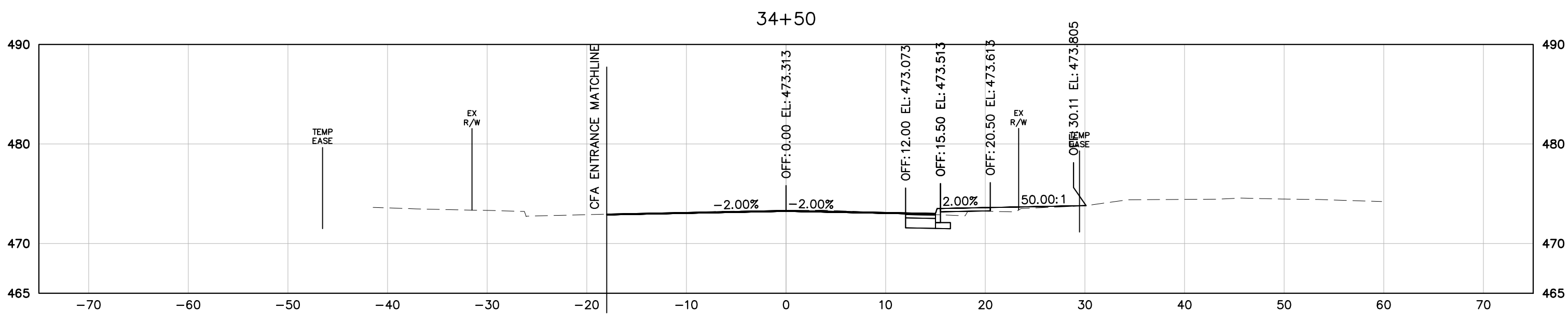
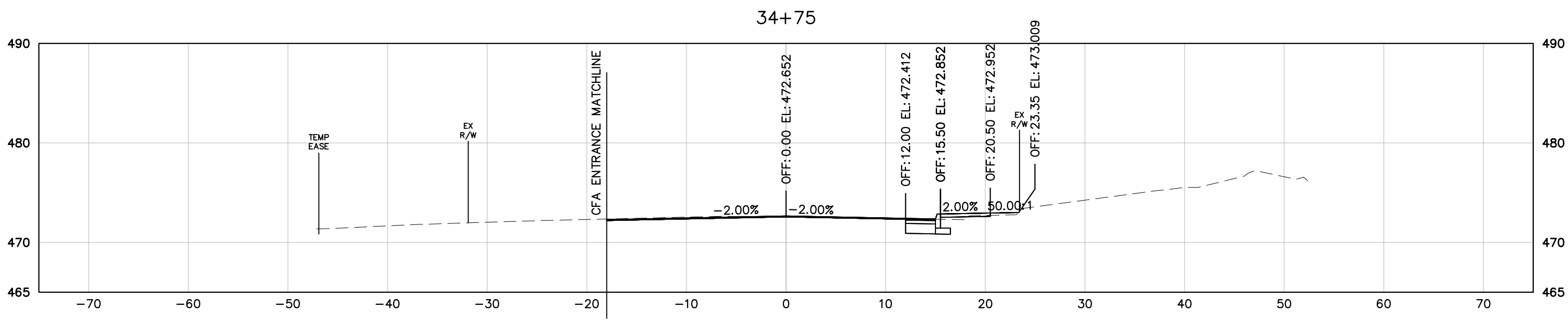
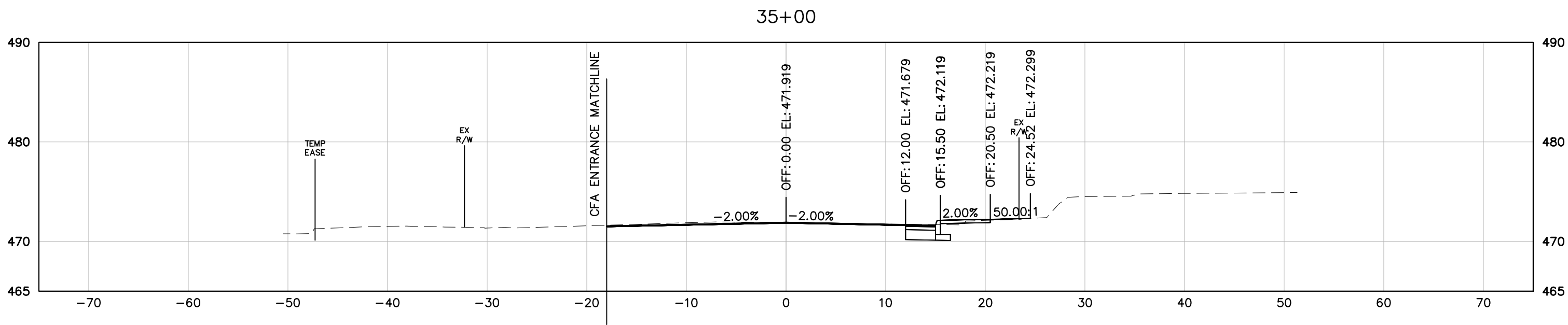
PROJECT MANAGER: JIM MOISCH (434) 970-3395
SURVEYED BY, DATE: H&B SURVEYING AND MAPPING, LLC, 03/01/2018
DESIGN SUPERVISED BY: BRIAN MCPETERS, PE (KIMLEY-HORN)
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CROSS SECTIONS



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	16



9TH STREET (ROUTE 20)
STATION 34+50 TO STATION 35+00

PROJECT	SHEET NO.
U000-104-298	16

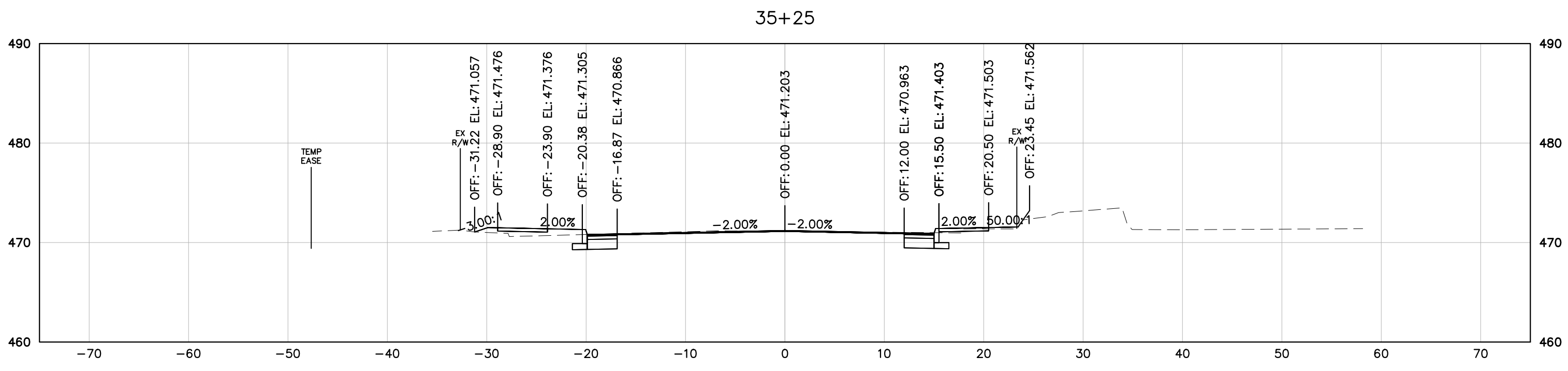
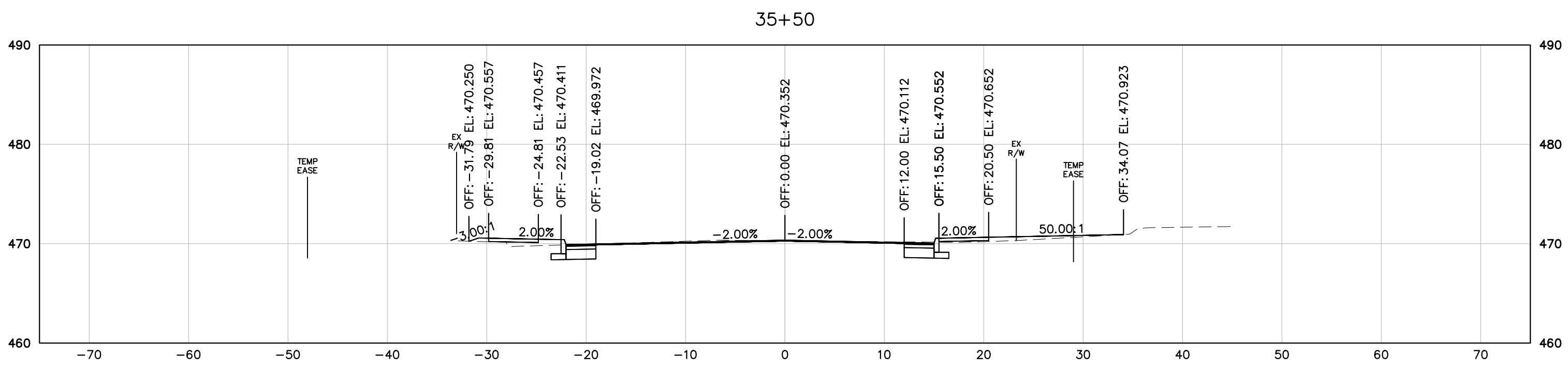
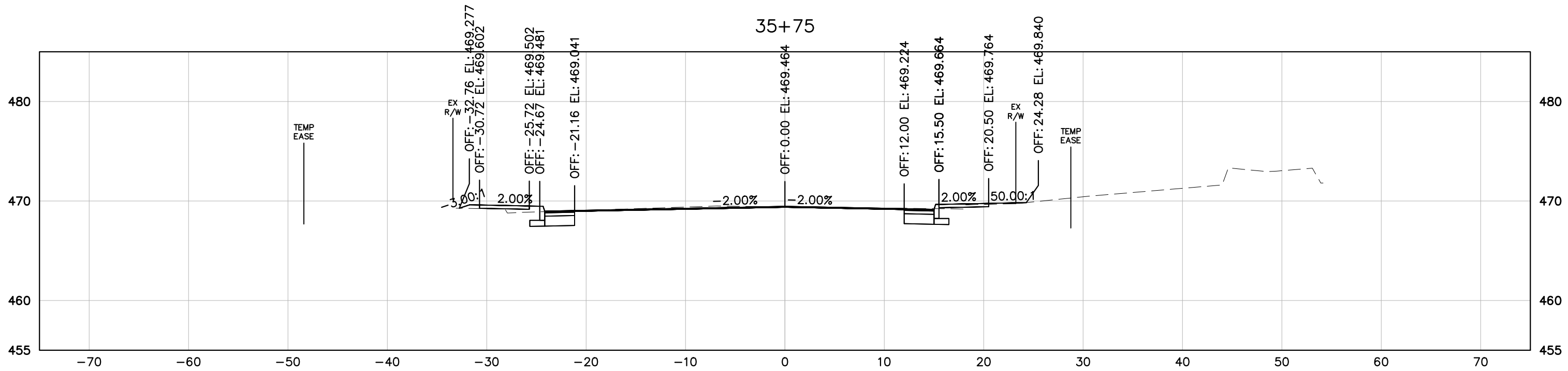
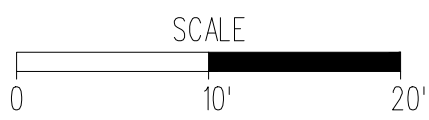
October 25, 2017 5:20 PM: Bead, Atyeo
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K:\VIRG_RDWY\113003004_E_HIGH_STREET ISCAPE\CAADD\REF\Q-D1094800CORR.DWG, Layout:16

PROJECT MANAGER: JIM MOISCH (434) 970-3395
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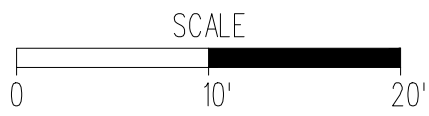
9TH STREET (ROUTE 20)
STATION 35+25 TO STATION 35+75

PROJECT	SHEET NO.
U000-104-298	17

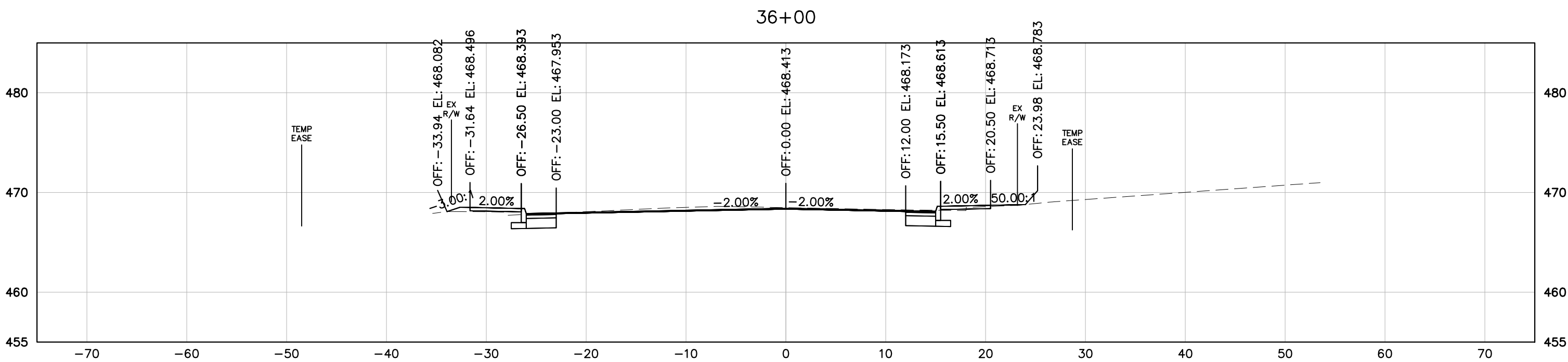
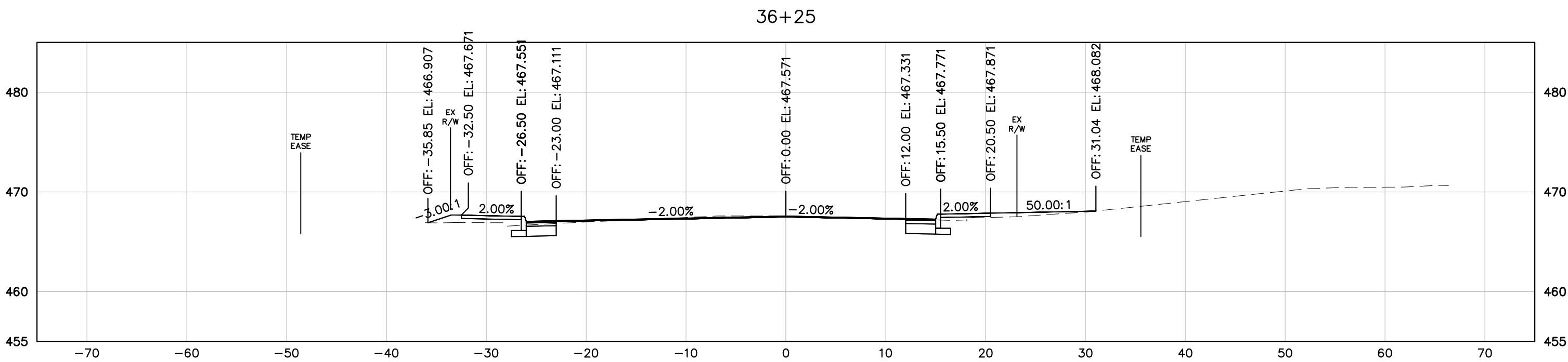
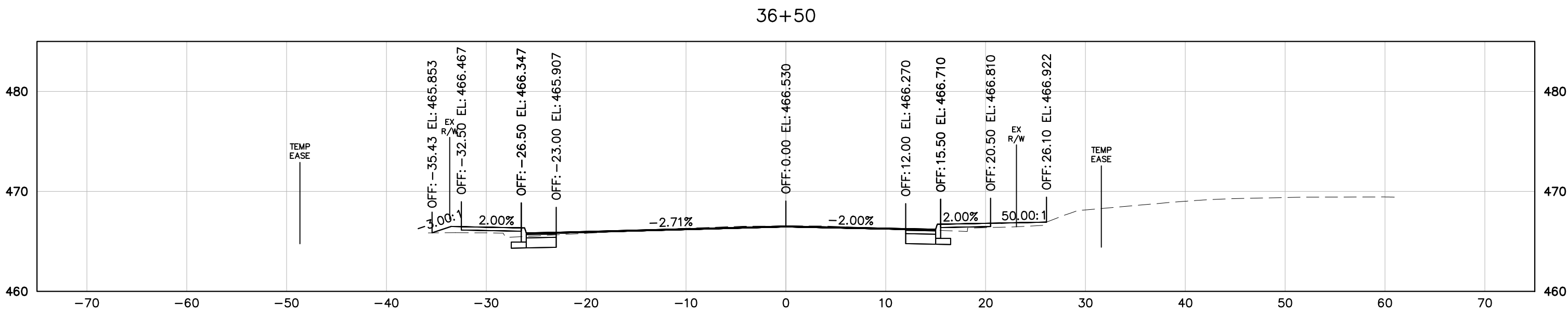
PROJECT MANAGER: JIM MOTSCH (434) 970-3395
SURVEYED BY: DATE H&B SURVEYING AND MAPPING, LLC 03/01/2018
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	18



9TH STREET (ROUTE 20)
STATION 36+00 TO STATION 36+50

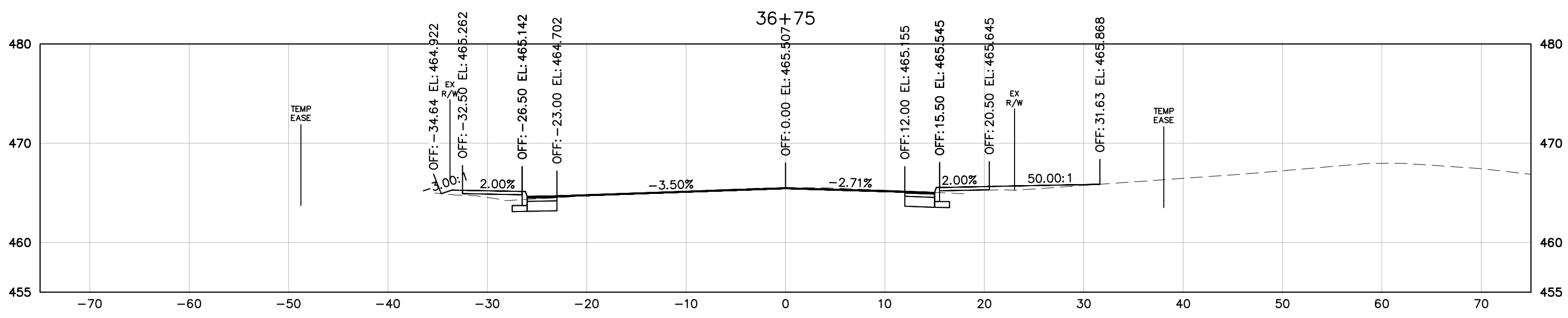
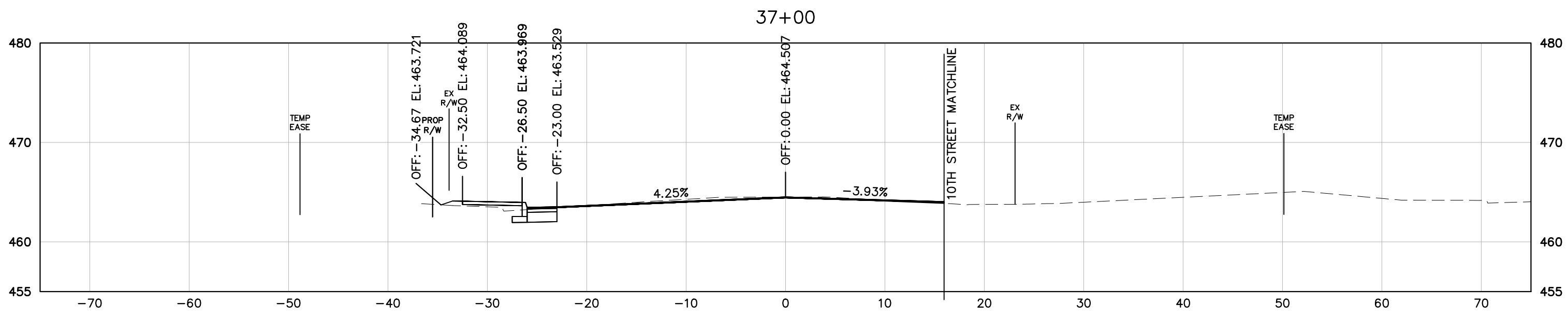
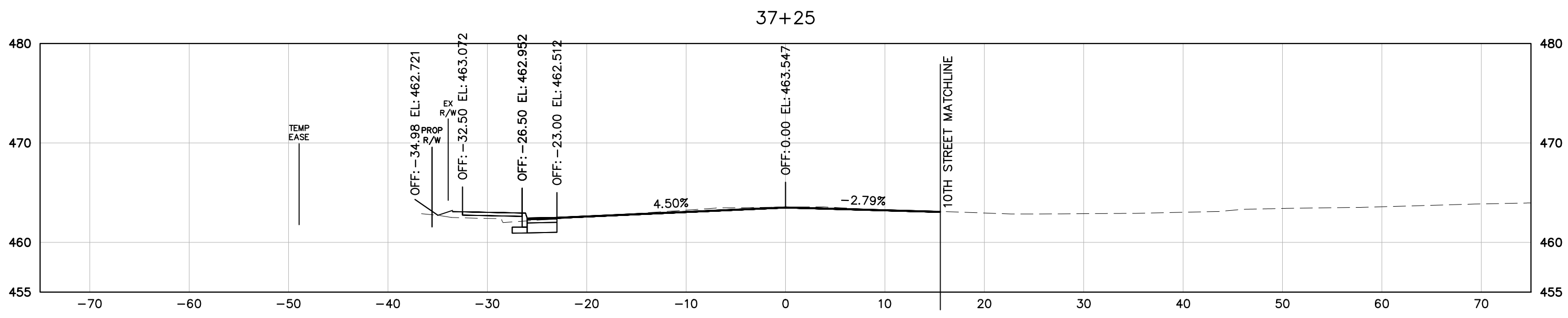
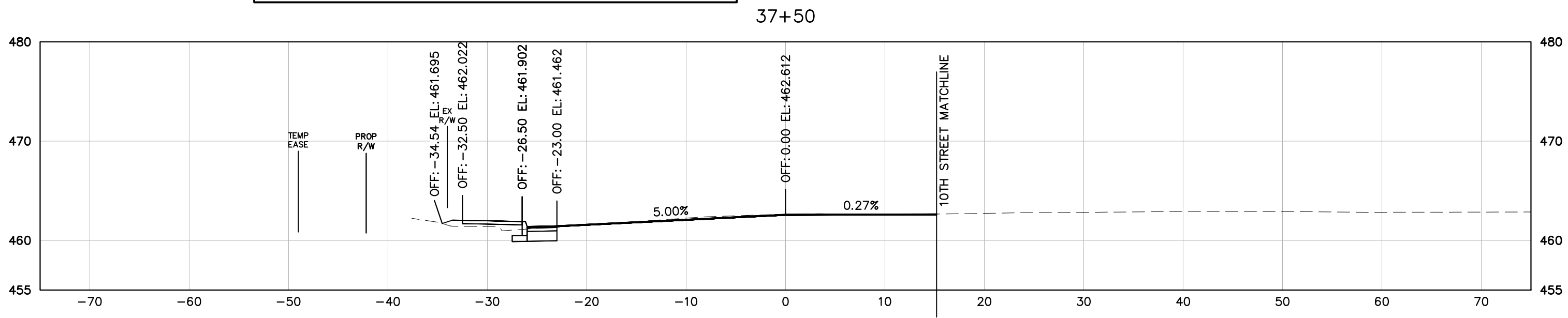
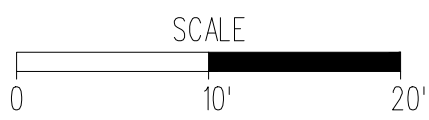
PROJECT	SHEET NO.
U000-104-298	18

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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	19

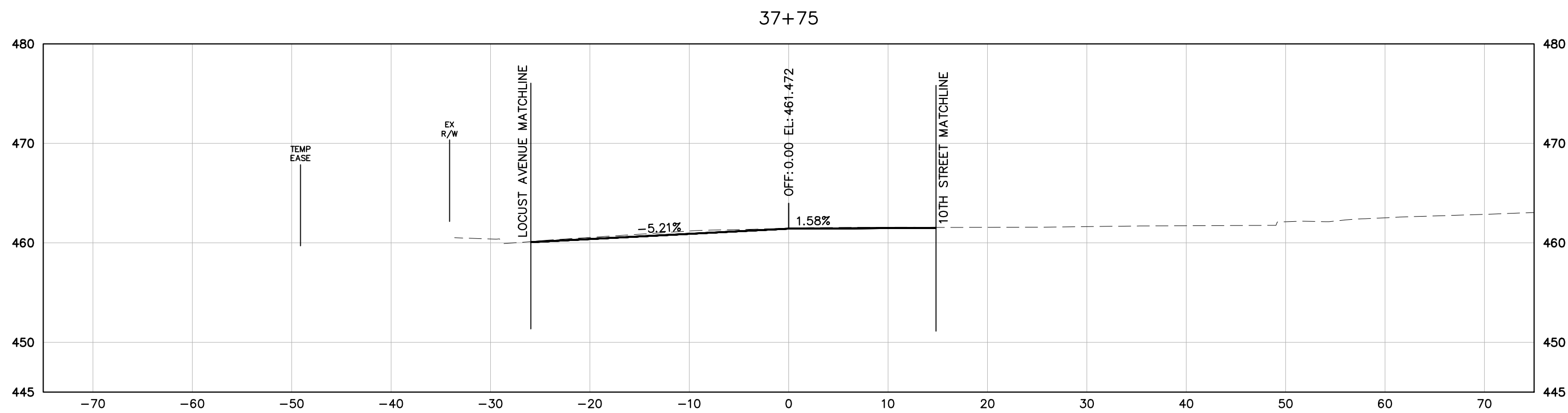
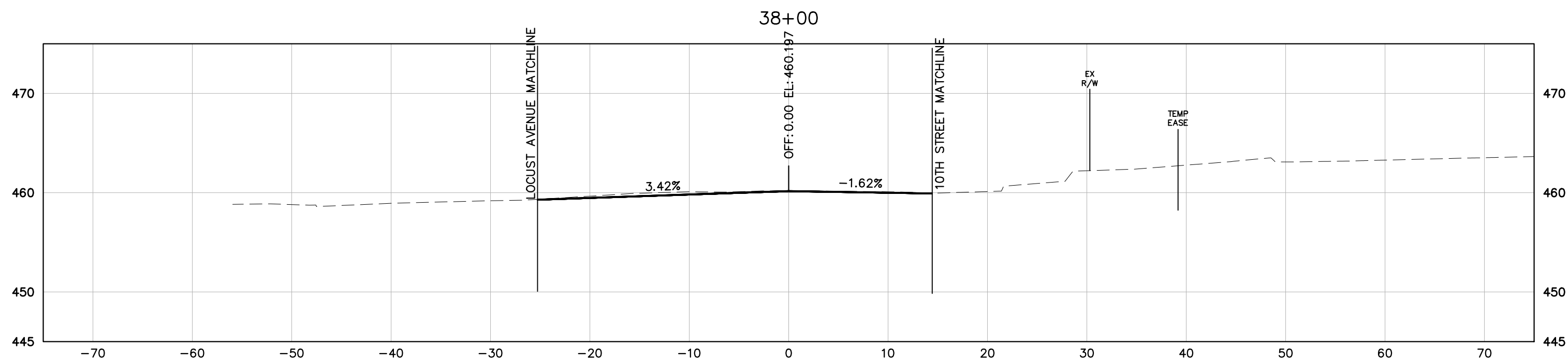
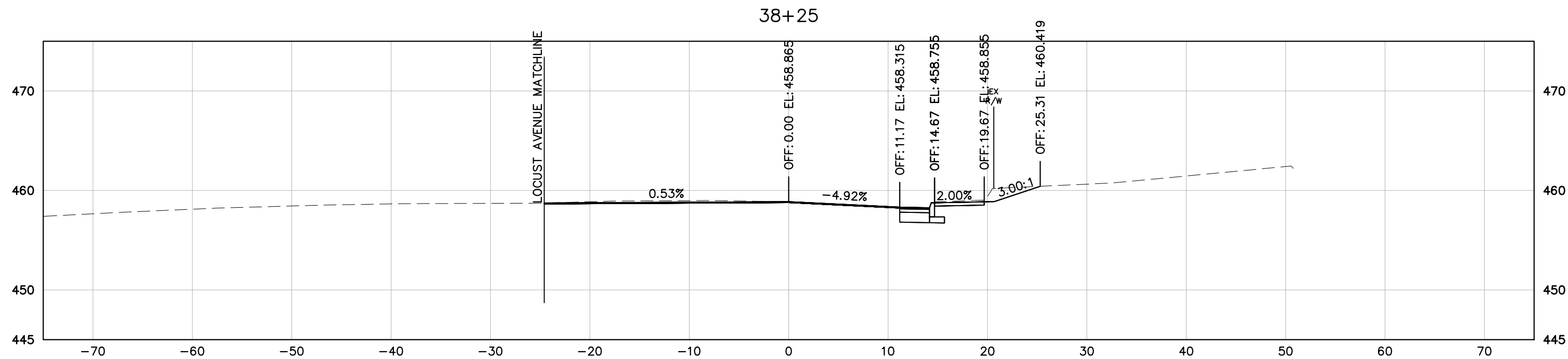
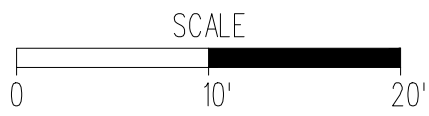
9TH STREET (ROUTE 20)
STATION 37+75 TO STATION 38+25

PROJECT	SHEET NO.
U000-104-298	19

PROJECT MANAGER: JIM MOISCH (434) 970-3395
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	20

9TH STREET (ROUTE 20)
STATION 37+75 TO 38+25

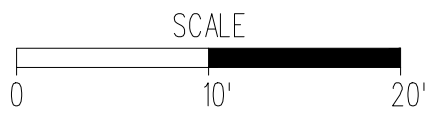
PROJECT	SHEET NO.
U000-104-298	20

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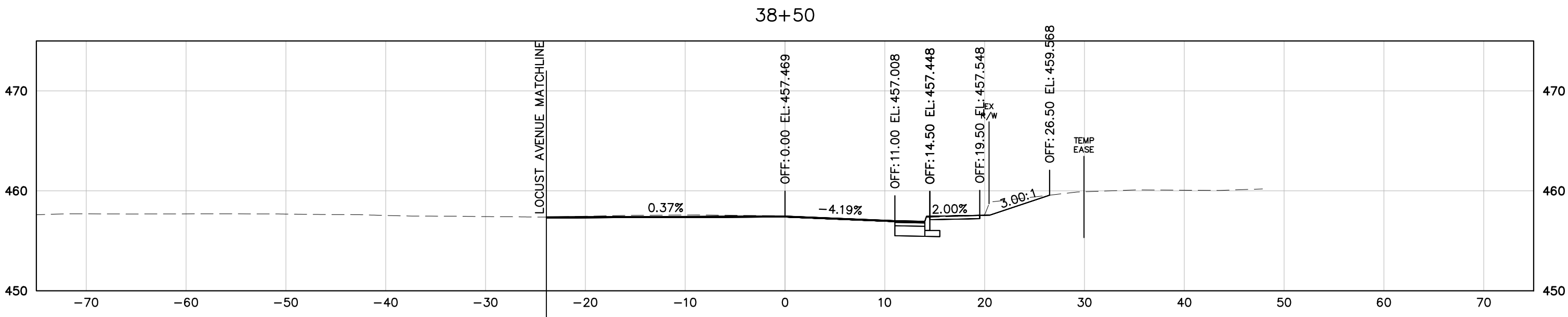
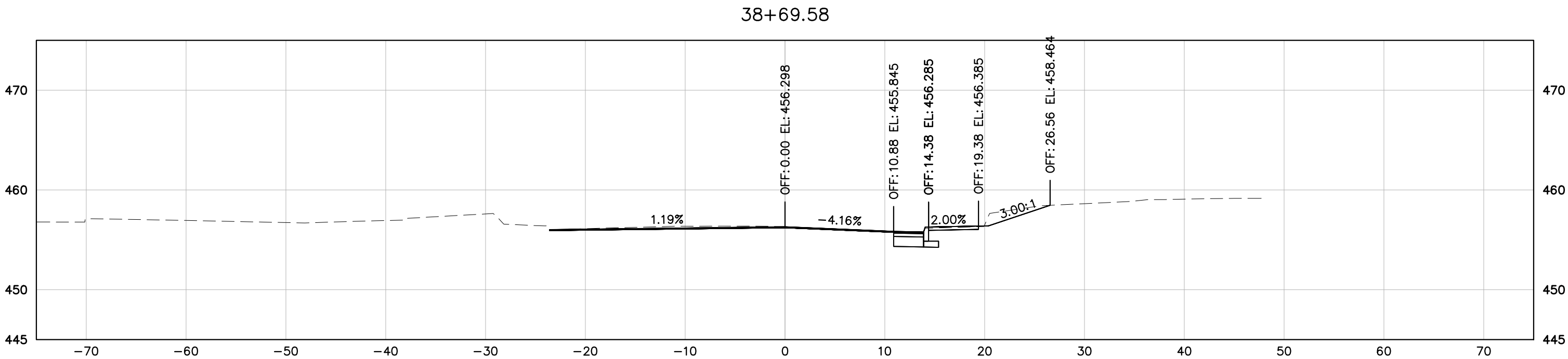
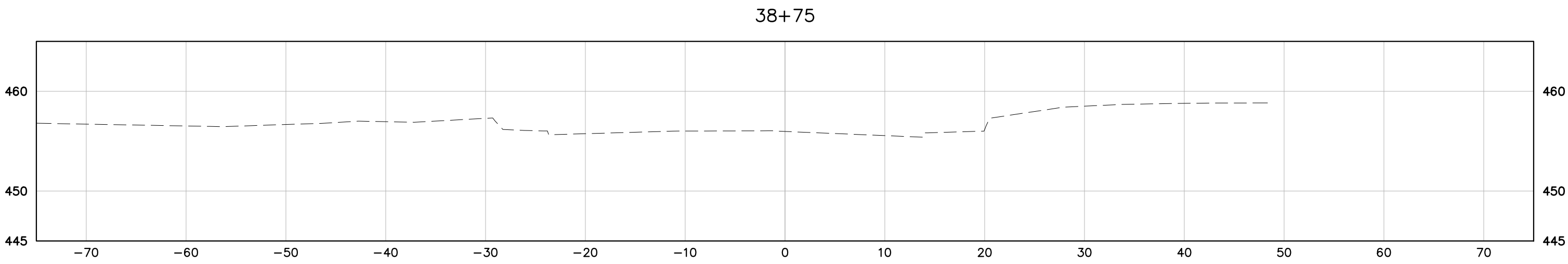
PROJECT MANAGER: JIM MOISCH (434) 970-3395
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	21



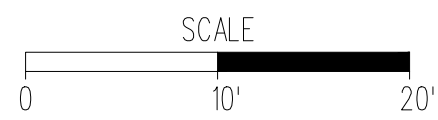
9TH STREET (ROUTE 20)
STATION 38+50 TO 38+75

PROJECT	SHEET NO.
U000-104-298	21

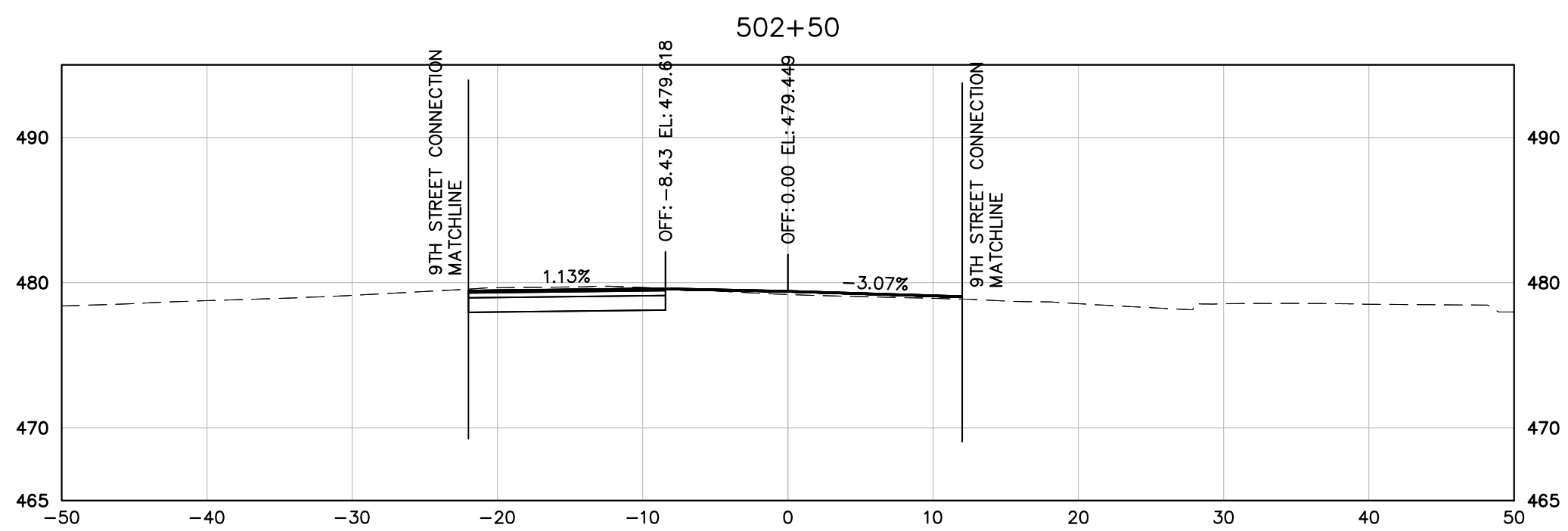
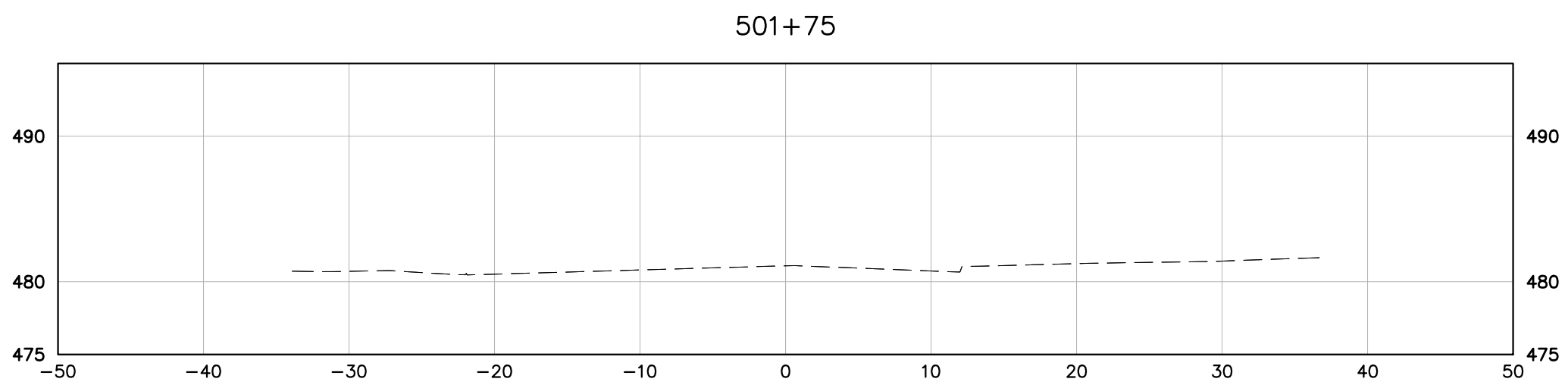
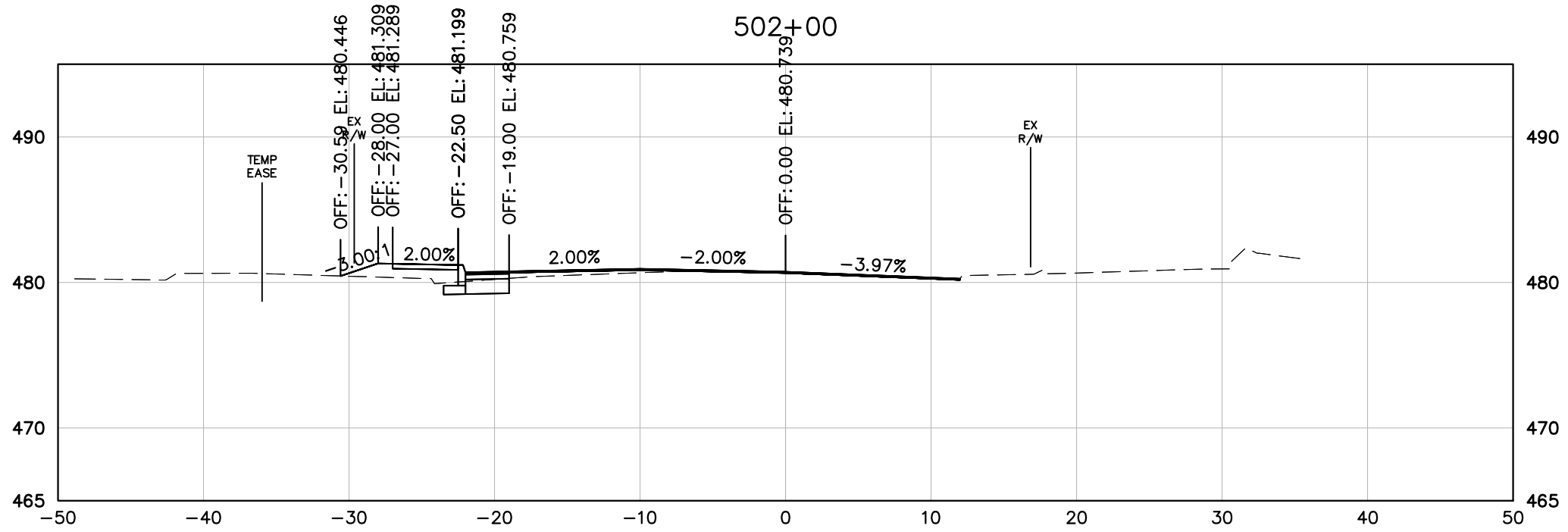
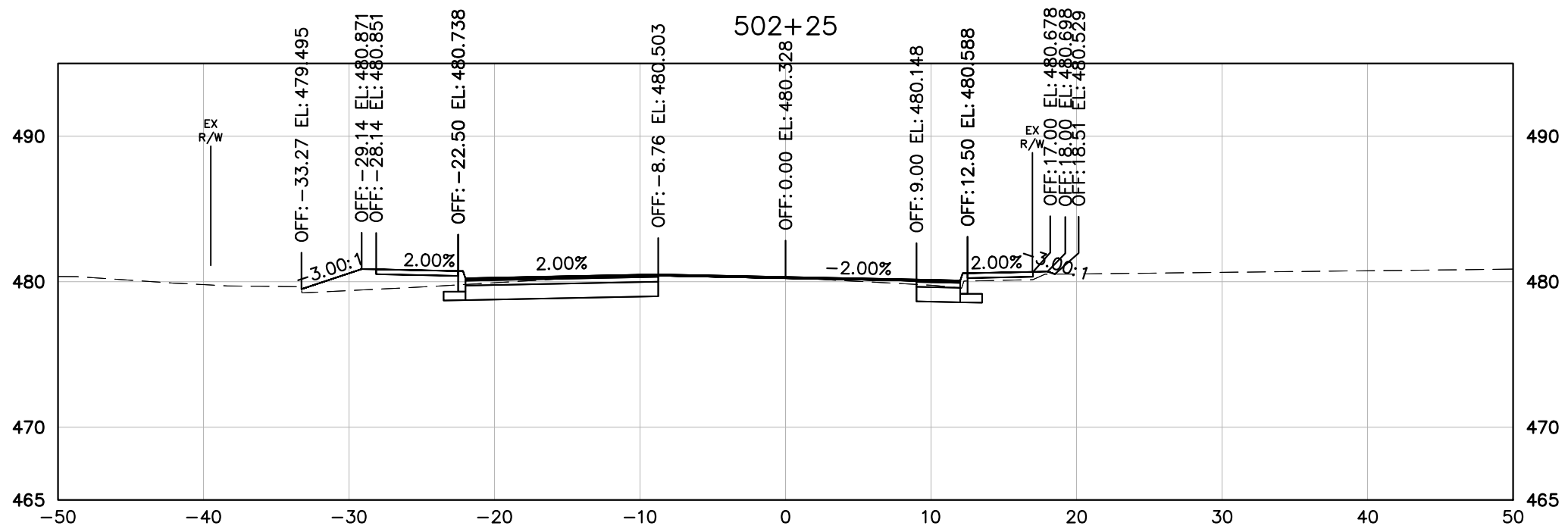
PROJECT MANAGER: JIM MOISCH (434) 970-3395
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	22



E HIGH STREET (ROUTE 250)
STATION 501+75 TO STATION 502+50

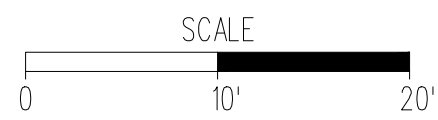
PROJECT	SHEET NO.
U000-104-298	22

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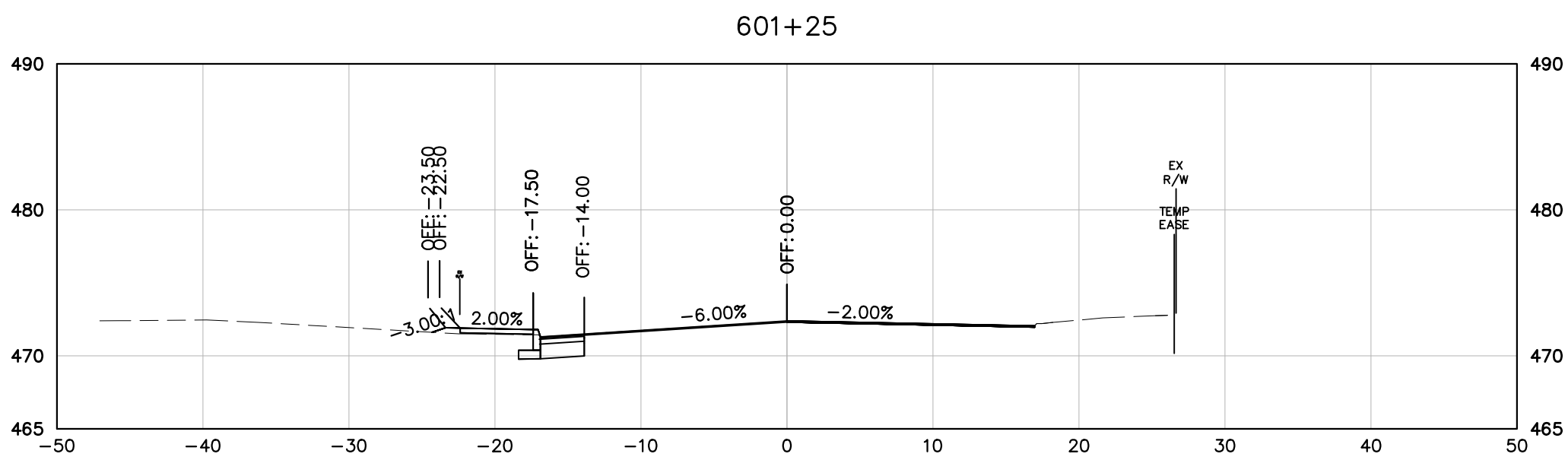
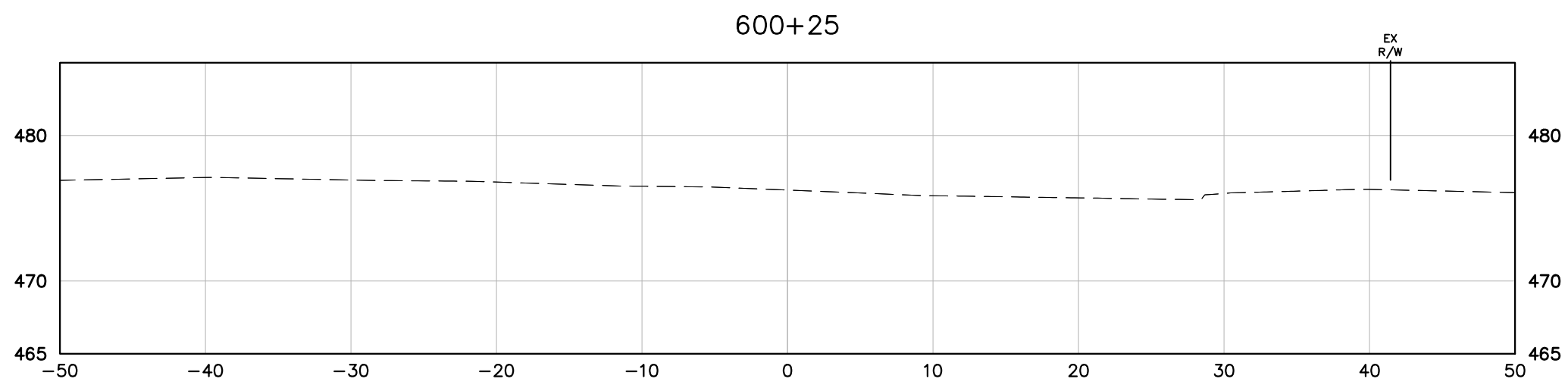
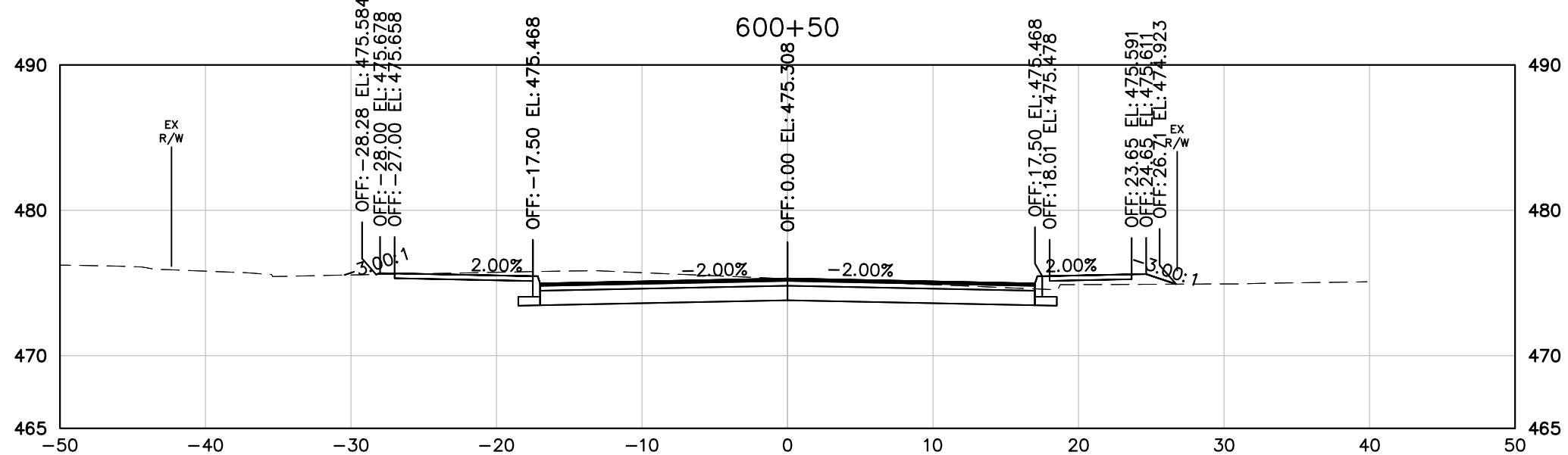
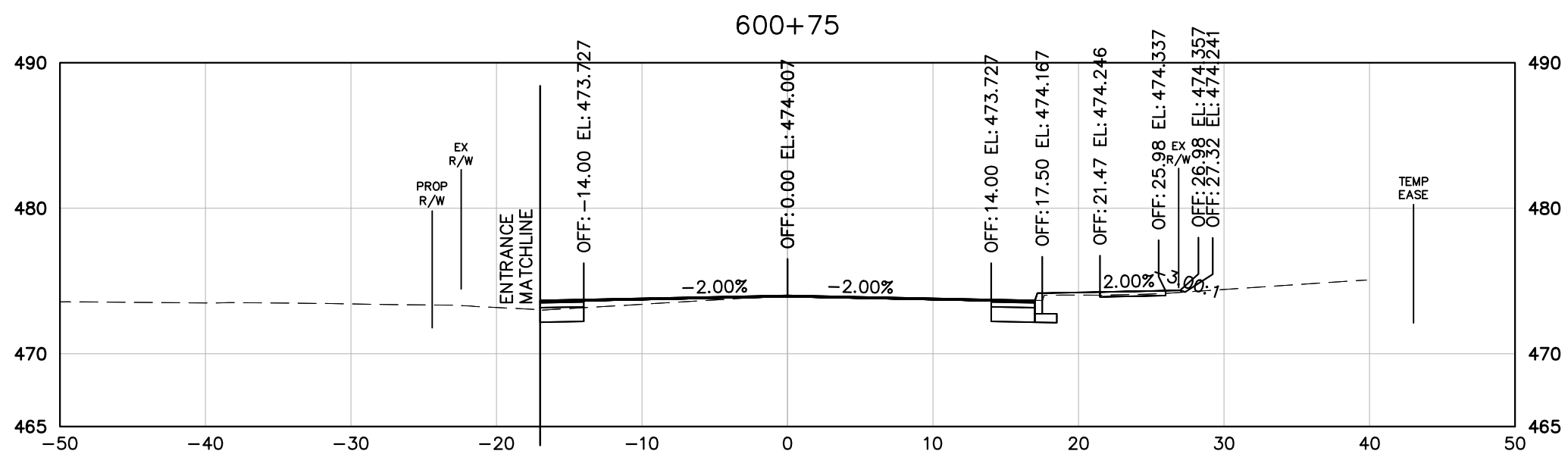
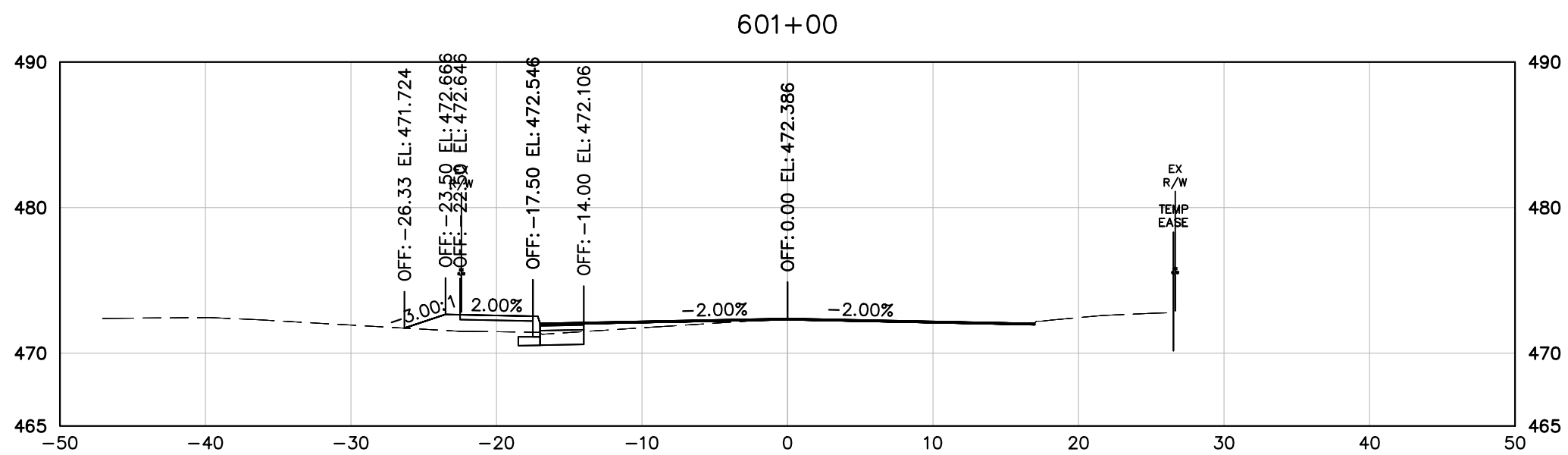
PROJECT MANAGER: JIM MOISCH (434) 970-3395
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	20	U000-104-298 RW-201, C-501	23



LEXINGTON AVENUE
STATION 600+25 TO STATION 601+25

PROJECT
U000-104-298

SHEET NO.
23