D9299900I.dgn
Plotted By: CRONIN

PROJECT MANAGER: Gladis Arboleda, PWC (703) 792-5276
SURVEYED BY, DATE JMT Engineering (804) 323-9900
DESIGN BY Jeff Cronin, JMT Engineering (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT Engineering (804) 323-9900

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 92999

FHWA-534 Data 41004

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	HSIP-5A01(176)	619	VDOT 0001-076-995 (NFO) (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

COMMONWEALTH OF VIRGINIA

PRINCE WILLIAM COUNTY
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

ROUTE 619 IMPROVEMENTS (FULLER ROAD)

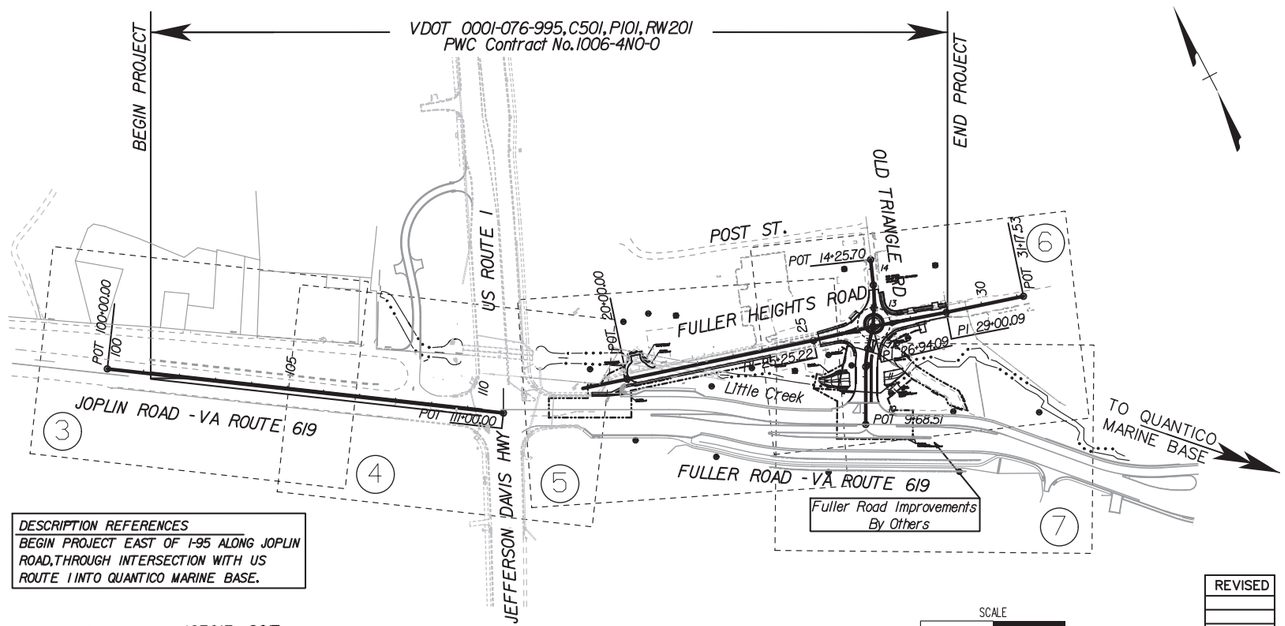
From: 0.18 Miles West of Route 1 & Joplin Rd Intersection
To : 0.23 Miles East of Route 1 & Fuller Rd Intersection

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA		
From: 0.18 Miles West of Route 1 & Joplin Rd Intersection *To : 0.23 Miles East of Route 1 & Fuller Rd Intersection*		
	JOPLIN ROAD (ROUTE 619)	FULLER HEIGHTS ROAD
FUNCTIONAL CLASSIFICATION	URBAN COLLECTOR DIVIDED - LEVEL GS-7	URBAN COLLECTOR UN-DIVIDED - LEVEL GS-7
ADT (2018)	20,000	9,300
ADT (2040)	30,900	14,400
DHV	984	520
D (%) (design hour)	53%	65%
T (%) (design hour)	1%	1%
V (MPH)	35 MPH POSTED	35 MPH POSTED

CONVENTIONAL SIGNS

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



DESCRIPTION REFERENCES
BEGIN PROJECT EAST OF I-95 ALONG JOPLIN ROAD, THROUGH INTERSECTION WITH US ROUTE 1 INTO QUANTICO MARINE BASE.

SCALE 0 200' 400'

Population 46,301 (2017 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
PWC 1006-4N0-0	P-101	PHLD-5401(990)		92999	219	0.416	-	-	-	Prel. Engr.	From: 0.18 Miles West of Route 1 & Joplin Rd Intersection To : 0.23 Miles East of Route 1 & Fuller Rd Intersection
	B-660	HSIP-5A01(176)		92999	32	0.006	-	-		Drainage	Structure Over Little Creek
	R-201	HSIP-5A01(176)		92999	1028	0.195	-	-	-	R/W	From: 0.02 Miles East of Route 1 & Fuller Rd Intersection To : 0.22 Miles East of Route 1 & Fuller Rd Intersection

Project Lengths are based on _____.

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, 2008 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION 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 5.11U , EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

LOCALLY ADMINISTERED PROJECTS	
Prince William County	
NAME OF LOCALITY	
RECOMMENDED FOR APPROVAL FOR RIGHT-OF-WAY	
7/26/2012	THOMAS BLASER
DATE	(SIGNATURE)
TOM BLASER DIRECTOR OF TRANSPORTATION	

RECOMMENDED FOR APPROVAL FOR RIGHT-OF-WAY	
8/8/2012	RENEE N. HAMILTON
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
8/14/2012	WILLIAM C. CUTTLER, PE
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR RIGHT-OF-WAY	
8/14/2012	GARRETT MOORE, PE
DATE	DISTRICT ADMINISTRATOR

REVISED

PROJECT	SHEET NO.
0001-076-995	1

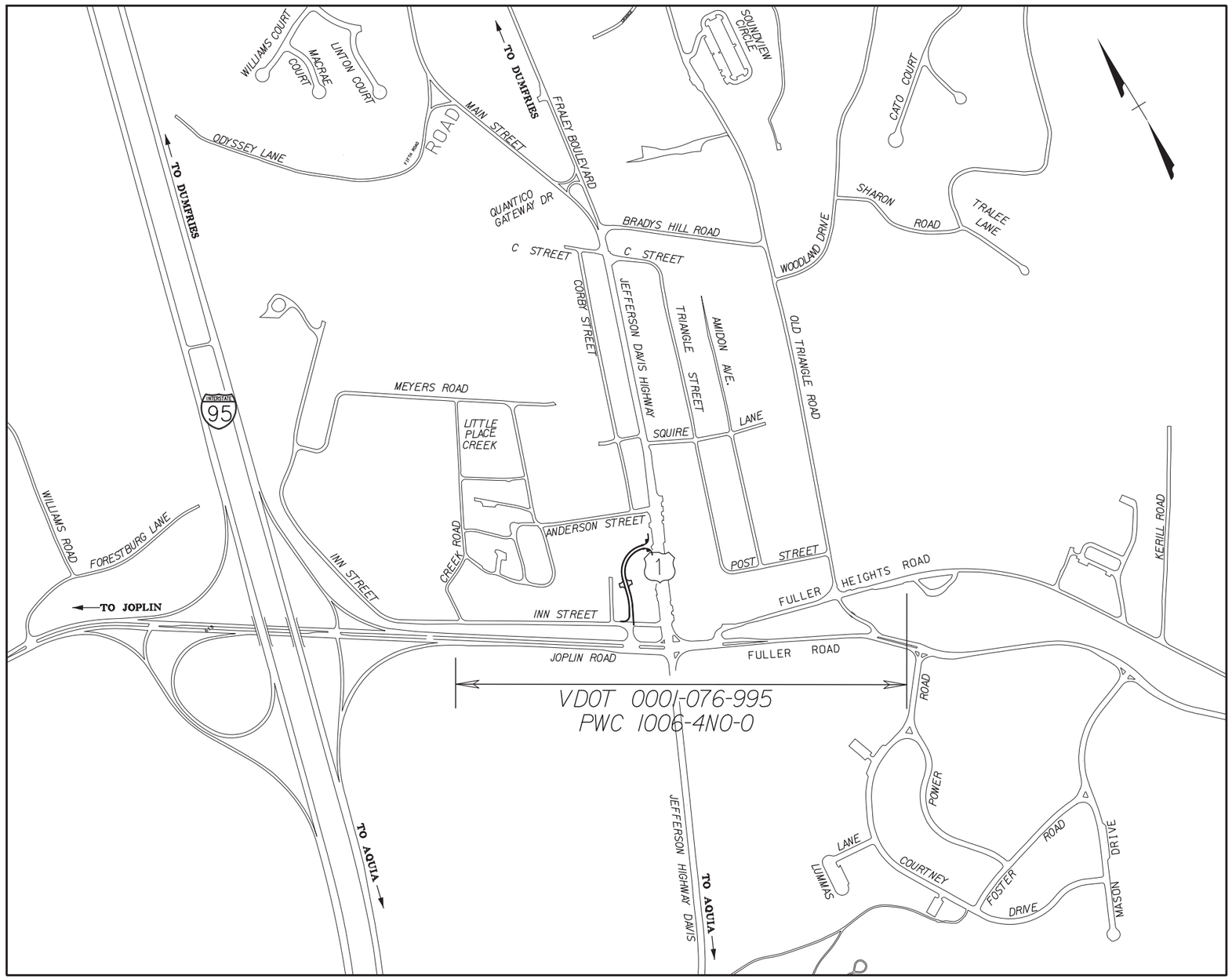
P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

PROJECT LOCATION
PRINCE WILLIAM COUNTY



REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4NO-0	1A

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

SCALE	PROJECT	SHEET NO.
0 350' 700'	VDOT 0001-076-995 PWC 1006-4NO-0	1A

P.A.C. PLANS

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INDEX OF SHEETS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	1B

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

PROJECT NO. 0001-076-995
PRINCE WILLIAM COUNTY

SHEET NO.	DESCRIPTION	STATION TO STATION
1	TITLE SHEET	
1A	PROJECT LOCATION SHEET	
1B	INDEX OF SHEETS	
1C	RIGHT OF WAY DATA SHEET	
1D	REVISION DATA SHEET	
1E	SURVEY ALIGNMENT DATA SHEET*	
1F(1) THRU 1F(4)	CONSTRUCTION ALIGNMENT DATA SHEET	
1G(1) THRU 1G(2)	MAINTENANCE OF TRAFFIC GENERAL NOTES & NARRATIVE	
1H(1) THRU 1H(3)	MAINTENANCE OF TRAFFIC - PHASE 1	
1J(1) THRU 1J(3)	MAINTENANCE OF TRAFFIC - PHASE 2	
1K(1) THRU 1K(3)	MAINTENANCE OF TRAFFIC - PHASE 3	
1L	NOT USED	
1M(1) THRU 1M(4)	STORMWATER POLLUTION PREVENTION PLAN	
1N(1) THRU 1N(2)	EROSION & SEDIMENT CONTROL GENERAL NOTES	
1O(1) THRU 1O(5)	EROSION & SEDIMENT CONTROL PHASE I	
1P(1) THRU 1P(5)	EROSION & SEDIMENT CONTROL PHASE 2	
2	GENERAL NOTES	
2A(1) THRU 2A(3)	TYPICAL SECTIONS	
2C(1) THRU 2C(2)	RADIAL OFFSET DATA & POINT BREAKS	
2D	UNDERGROUND UTILITIES TEST HOLE INFORMATION	
3 THRU 3A	JOPLIN RD_PLAN & PROFILE SHEETS	
4 THRU 4A	JOPLIN RD_PLAN & PROFILE SHEETS	
5 THRU 5A	FULLER HEIGHTS RD_PLAN & PROFILE SHEETS	
6 THRU 6A	FULLER HEIGHTS RD_PLAN & PROFILE SHEETS	
6B	FULLER HEIGHTS CONNECTION AND ROUNDABOUT PROFILE SHEETS	
6C	ENTRANCE PROFILES SHEET	

PROJECT NO. 0001-076-995
PRINCE WILLIAM COUNTY

SHEET NO.	DESCRIPTION	STATION TO STATION
6D	CURB RETURN PROFILES SHEET	
7	FULLER RD (IMPROVEMENTS BY OTHERS) PLAN SHEET	
8(1)	DRAINAGE DESCRIPTIONS	
8(2)	STREAM RELOCATION PROFILE AND DETAILS	
9(1) THRU 9(4)	PRECAST CONCRETE RIGID FRAME DETAIL	
10(1) THRU 10(8)	SIGNING AND PAVEMENT MARKING PLANS	
11(1) THRU 11(4)	SIGNAL PLANS	
	CROSS SECTION INDEX	
X-1 THRU X-14	RTE 619 (JOPLIN ROAD)	
X-15 THRU X-24	FULLER HEIGHTS ROAD	
X-25 THRU X-28	FULLER HEIGHTS ROAD CONNECTION	
X-29 THRU X-35	ROUNDABOUT	
X-36 THRU X-39	STREAM RELOCATION	

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	1B

P.A.C. PLANS

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SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IC

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

City/County: Prince William County

UPC No.: 92999

PRELIMINARY
RIGHT OF WAY DATA SHEET

PARCEL NO.	LANDOWNER	SHEET NO.	AREA							EASEMENTS								PROFFERS
			TOTAL	FEE TAKING		PRESCRIPTIVE R/W		FEE REMAINDER		PERMANENT		UTILITY		TEMPORARY		TEMPORARY(ENTRANCES)		
			ACRES OR SQUARE FEET	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	YES / NO
001	US Marine Reservation	5,6,7	22,970.24							30,803 SF				26,597 SF				No
002	PWC Board of Supervisors	5	0.3089 AC	1,523 SF				0.2739 AC						16 SF				No
003	Andrew Phillip Hepburn & Jacqueline M Surv	5	0.48 AC							81 SF				139 SF				No
004	Not Used																	No
005	Donald L.Hapner Tr.	6	0.170 AC							3,443 SF								No
006	Sung-Soo Kim	6	0.36 AC	0.36 AC				0 AC										No
007	Not Used																	No
008	MCP Ltd.	6	0.19 AC	179 SF				0.186 AC		209 SF				2,241 SF				No
009	Not Used																	No
010	Not Used																	No
011	Not Used																	No
012	PWC Board of County Supervisors	5	2.556 AC											2,792 SF				No

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IC

P.A.C. PLANS

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REVISION DATA SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	ID

State Project: *0001-076-995, PE-101, RW-201, C-501*
Federal Project: *PHLD-5401(990)*
From: *0.18 Miles West of Route 1 & Joplin Rd Intersection*
To: *0.23 Miles East of Route 1 & Fuller Rd Intersection*
UPC Number: *92999*

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	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	ID

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SURVEY ALIGNMENT DATA SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4NO-0	IE

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

Chain SURVBL contains:
12107 859 858 857 856 855 854 2

Beginning chain SURVBL description

Point 12107	N	6,884,094.1779 E	11,815,670.5144 Sta	10+00.00
Course from 12107 to 859 N 25°51′ 35.12″ E Dist 313.5622				
Point 859	N	6,884,376.3414 E	11,815,807.2807 Sta	13+13.56
Course from 859 to 858 N 35°30′ 12.18″ E Dist 460.3564				
Point 858	N	6,884,751.1089 E	11,816,074.6332 Sta	17+73.92
Course from 858 to 857 N 9°20′ 42.31″ E Dist 425.5291				
Point 857	N	6,885,170.9905 E	11,816,143.7308 Sta	21+99.45
Course from 857 to 856 N 32°25′ 42.60″ E Dist 359.4811				
Point 856	N	6,885,474.4146 E	11,816,336.5013 Sta	25+58.93
Course from 856 to 855 N 10°00′ 34.17″ E Dist 428.6791				
Point 855	N	6,885,896.5687 E	11,816,411.0106 Sta	29+87.61
Course from 855 to 854 N 31°50′ 27.65″ E Dist 381.6545				
Point 854	N	6,886,220.7900 E	11,816,612.3578 Sta	33+69.26
Course from 854 to 2 N 11°16′ 08.04″ E Dist 570.2882				
Point 2	N	6,886,780.0835 E	11,816,723.7999 Sta	39+39.55

Ending chain SURVBL description

NOTES:
1. VERTICAL DATUM IS BASED ON NGS MEAN SEA LEVEL.
2. PROJECT COORDINATE VALUES ARE FROM VIRGINIA STATE PLANE COORDINATE SYSTEM (NORTH ZONE, NAD 83).

SCALE
0 100' 200'

Number	Northing	Easting	Elevation	Raw Desc	Description	Bearing	Distance
2	6886780.08351800	11816723.79994300	153.46	17	TPK Nail		
						N11°16′08″E	570.29′
854	6886220.79002000	11816612.35775100	158.00	17	Rod W/ Cap		
						N31°50′28″E	381.65′
855	6885896.56872500	11816411.01059100	150.71	17	Rod W/ Cap		
						N10°00′34″E	428.68′
856	6885474.41457300	11816336.50131400	140.61	17	Rod W/ Cap		
						N32°25′43″E	359.48′
857	6885170.99050600	11816143.73076800	124.89	17	Rod W/ Cap		
						N09°20′42″E	425.53′
858	6884751.10890000	11816074.63320000	119.56	17	Rod W/ Cap		
						N35°30′12″E	460.36′
859	6884376.34138600	11815807.28073500	106.45	17	TPK Nail		
						N25°51′35″E	313.56′
12107	6884094.17793400	11815670.51435800	101.65	17	Rod W/ Cap		

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4NO-0	IE

P.A.C. PLANS

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SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	1F(1)

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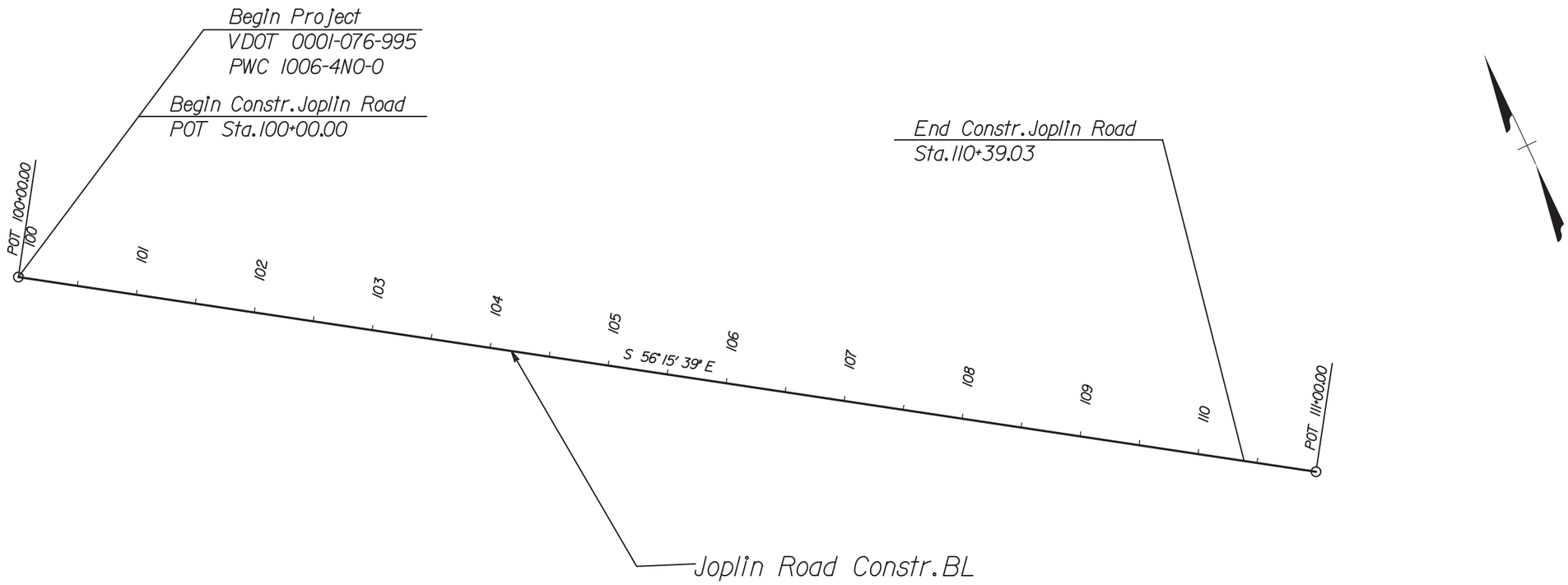
CONSTRUCTION ALIGNMENT DATA SHEET



ROUTE 619 (JOPLIN ROAD) - CONSTRUCTION BASELINE

** 1 DESCRIBE CHAIN 619

Chain 619 contains:
J01 J02

Beginning chain 619 description

Point J01	N 6,884,567.2000 E	11,814,749.8328 Sta	100+00.00
Course from J01 to J02 S 56° 15′ 38.72″ E Dist 1,100.0000			
Point J02	N 6,883,956.2444 E	11,815,664.5641 Sta	111+00.00

Ending chain 619 description

SCALE	PROJECT	SHEET NO.
0 50' 100'	VDOT 0001-076-995 PWC 1006-4N0-0	1F(1)

P.A.C. PLANS

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IF(2)

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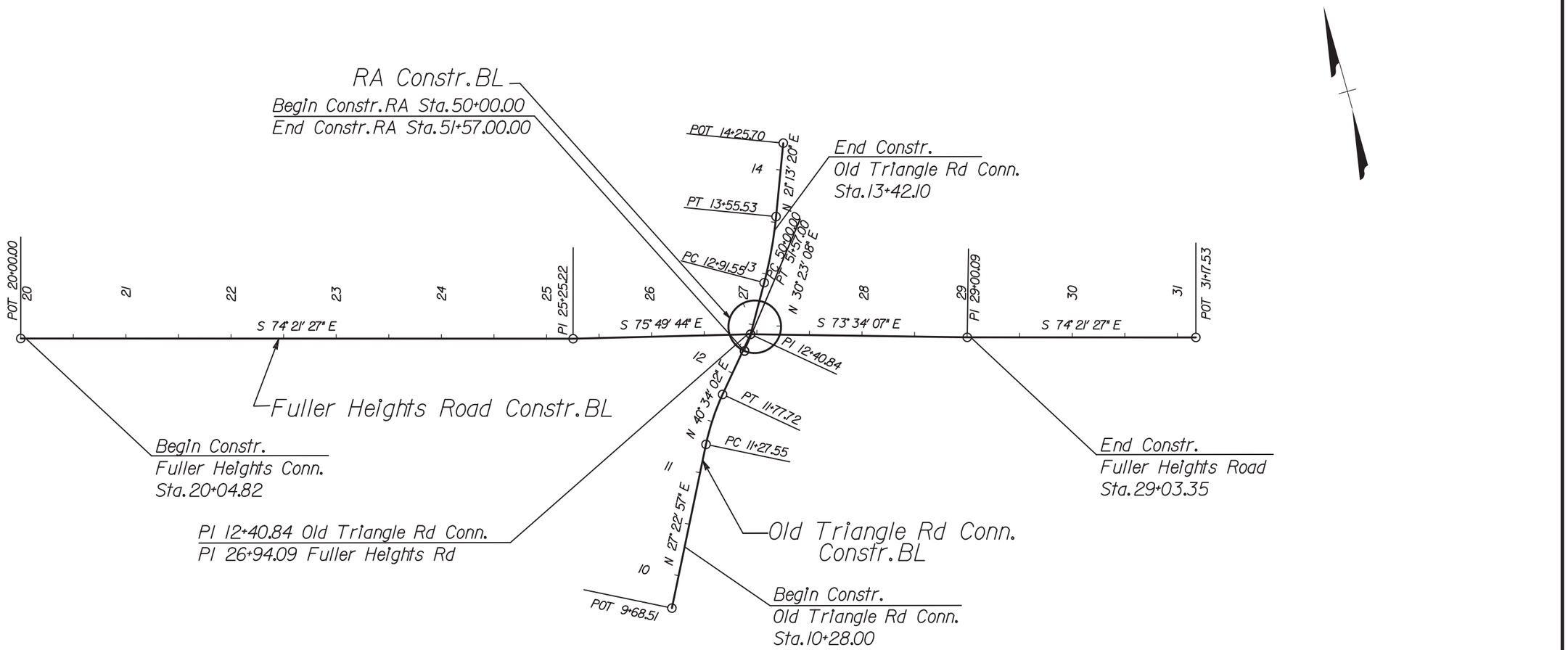
CONSTRUCTION ALIGNMENT DATA SHEET



SCALE	PROJECT	SHEET NO.
0 50' 100'	VDOT 0001-076-995 PWC 1006-4N0-0	IF(2)

P.A.C. PLANS

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IF(3)

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

CONSTRUCTION ALIGNMENT DATA SHEET

FULLER HEIGHTS ROAD - CONSTRUCTION BASELINE

** 1 DESCRIBE CHAIN FHRD

Chain FHRD contains:
FH1 FH2 FH3 FH4 FH5

Beginning chain FHRD description

Point FH1 N 6,883,882.0058 E 11,816,010.7174 Sta 20+00.00

Course from FH1 to FH2 S 74° 21′ 27.18″ E Dist 525.2192

Point FH2 N 6,883,740.3892 E 11,816,516.4841 Sta 25+25.22

Course from FH2 to FH3 S 75° 49′ 44.32″ E Dist 168.8676

Point FH3 N 6,883,699.0475 E 11,816,680.2129 Sta 26+94.09

Course from FH3 to FH4 S 73° 34′ 07.28″ E Dist 206.0070

Point FH4 N 6,883,640.7752 E 11,816,877.8065 Sta 29+00.09

Course from FH4 to FH5 S 74° 21′ 27.18″ E Dist 217.4381

Point FH5 N 6,883,582.1467 E 11,817,087.1913 Sta 31+17.53

Ending chain FHRD description

ROUNDABOUT - CONSTRUCTION BASELINE

** 3 DESCRIBE CHAIN CIRCLE

Chain CIRCLE contains:
CUR CIRCLE1

Beginning chain CIRCLE description

Curve Data

Curve CIRCLE1						
P.I. Station		50+00.04	N	6,883,685.2756	E	11,816,670.3607
Delta	=	359° 49′ 02.89″ (LT)				
Degree	=	229° 10′ 59.22″				
Tangent	=	0.0398				
Length	=	157.0000				
Radius	=	25.0000				
External	=	50.0000				
Long Chord	=	0.0796				
Mid. Ord.	=	50.0000				
P.C. Station		50+00.00	N	6,883,685.2509	E	11,816,670.3919
P.T. Station		51+57.00	N	6,883,685.3005	E	11,816,670.3296
C.C.			N	6,883,704.8446	E	11,816,685.9189
Back	= S	51° 36′ 17.86″ E				
Ahead	= S	51° 25′ 20.75″ E				
Chord Bear	= N	51° 30′ 49.30″ W				

Ending chain CIRCLE description

FULLER HEIGHTS ROAD CONNECTION - CONSTRUCTION BASELINE

** 2 DESCRIBE CHAIN FHCONN

Chain FHCONN contains:
D103 CUR FHCONN1 D104 CUR FHCONN2 D105

Beginning chain FHCONN description

Point D103 N 6,883,468.3688 E 11,816,538.0443 Sta 9+68.51

Course from D103 to PC FHCONN1 N 27° 22′ 57.46″ E Dist 159.0423

Curve Data

Curve FHCONN1						
P.I. Station		11+52.75	N	6,883,631.9622	E	11,816,622.7802
Delta	=	13° 11′ 04.82″ (RT)				
Degree	=	26° 16′ 56.88″				
Tangent	=	25.1939				
Length	=	50.1653				
Radius	=	218.0000				
External	=	1.4510				
Long Chord	=	50.0547				
Mid. Ord.	=	1.4414				
P.C. Station		11+27.55	N	6,883,609.5911	E	11,816,611.1927
P.T. Station		11+77.72	N	6,883,651.1005	E	11,816,639.1648
C.C.			N	6,883,509.3262	E	11,816,804.7669
Back	= N	27° 22′ 57.46″ E				
Ahead	= N	40° 34′ 02.28″ E				
Chord Bear	= N	33° 58′ 29.87″ E				

Course from PT FHCONN1 to D104 N 40° 34′ 02.28″ E Dist 63.1179

Point D104 N 6,883,699.0475 E 11,816,680.2129 Sta 12+40.84

Course from D104 to PC FHCONN2 N 30° 23′ 08.43″ E Dist 50.7189

Curve Data

Curve FHCONN2						
P.I. Station		13+23.61	N	6,883,770.4512	E	11,816,722.0812
Delta	=	9° 09′ 48.10″ (LT)				
Degree	=	14° 19′ 26.20″				
Tangent	=	32.0545				
Length	=	63.9723				
Radius	=	400.0000				
External	=	1.2823				
Long Chord	=	63.9042				
Mid. Ord.	=	1.2782				
P.C. Station		12+91.55	N	6,883,742.7997	E	11,816,705.8674
P.T. Station		13+55.53	N	6,883,800.3319	E	11,816,733.6845
C.C.			N	6,883,945.1269	E	11,816,360.8114
Back	= N	30° 23′ 08.43″ E				
Ahead	= N	21° 13′ 20.33″ E				
Chord Bear	= N	25° 48′ 14.38″ E				

Course from PT FHCONN2 to D105 N 21° 13′ 20.32″ E Dist 70.1772

Point D105 N 6,883,865.7499 E 11,816,759.0878 Sta 14+25.70

Ending chain FHCONN description

NTS	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IF(3)

P.A.C. PLANS

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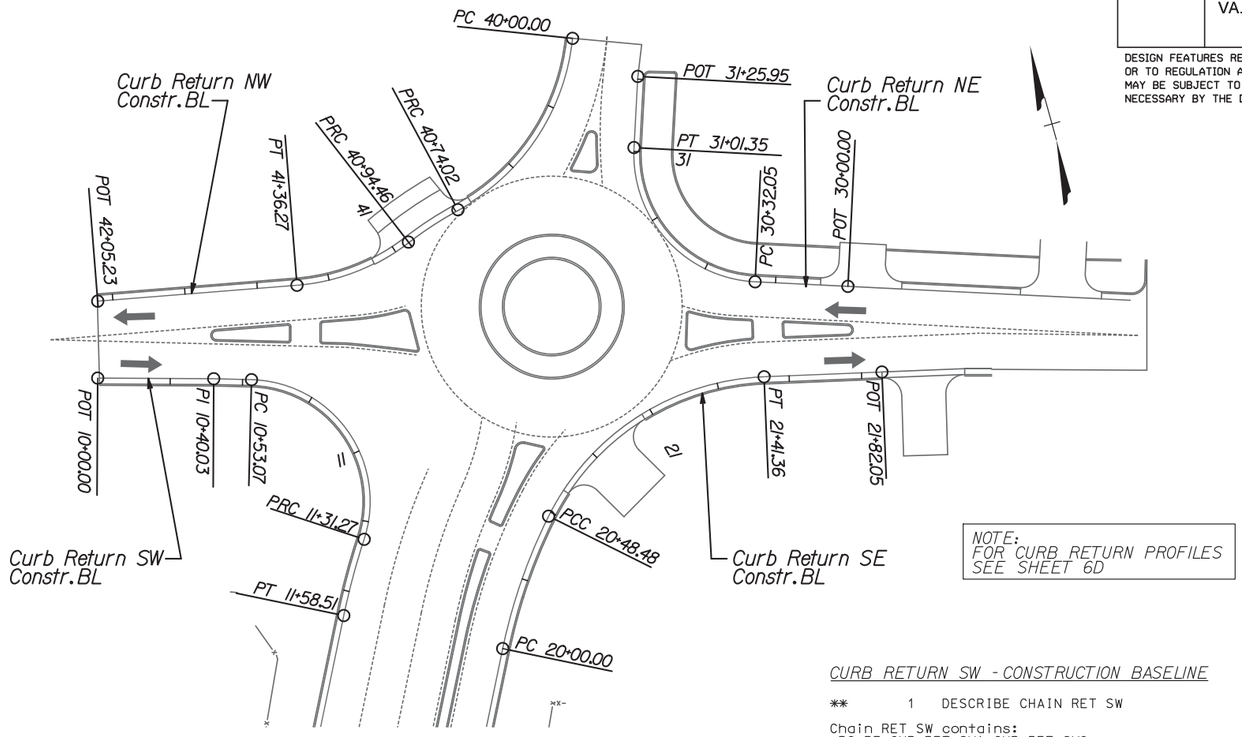
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

CONSTRUCTION ALIGNMENT DATA SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IF(4)

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



NOTE:
FOR CURB RETURN PROFILES
SEE SHEET 6D

CURB RETURN NE - CONSTRUCTION BASELINE

** 1 DESCRIBE CHAIN RET NE

CHAIN RET NE CONTAINS:
R4 CUR RET NE1 R5

BEGINNING CHAIN RET NE DESCRIPTION

POINT R4 N 6,883,684.0067 E 11,816,786.2002 STA 30+00.00

COURSE FROM R4 TO PC RET NE1 N 71° 32' 22.84" W DIST 32.0516

CURVE DATA

CURVE RET NE1				
P.I. STATION	30+76.24	N 6,883,708.1477	E	11,816,713.8842
DELTA =	90° 14' 36.67" (RT)			
DEGREE =	130° 13' 03.65"			
TANGENT =	44.1874			
LENGTH =	69.3020			
RADIUS =	44.0000			
EXTERNAL =	18.3581			
LONG CHORD =	62.3575			
MID. ORD. =	12.9535			
P.C. STATION	30+32.05	N 6,883,694.1558	E	11,816,755.7978
P.T. STATION	31+01.35	N 6,883,750.0015	E	11,816,728.0540
C.C.		N 6,883,735.8917	E	11,816,769.7303
BACK = N	71° 32' 22.84" W			
AHEAD = N	18° 42' 13.83" E			
CHORD BEAR = N	26° 25' 04.51" W			

COURSE FROM PT RET NE1 TO R5 N 18° 42' 13.83" E DIST 24.5932

POINT R5 N 6,883,773.2959 E 11,816,735.9405 STA 31+25.95

ENDING CHAIN RET NE DESCRIPTION

CURB RETURN NW - CONSTRUCTION BASELINE

** 2 DESCRIBE CHAIN RET NW

Chain RET NW contains:
CUR RET NW1 CUR RET NW2 CUR RET NW3 R2
Beginning chain RET NW description

Curve Data

Curve RET NW1				
P.I. Station	40+40.24	N 6,883,754.5684	E	11,816,703.0407
Delta =	55° 48' 02.01" (RT)			
Degree =	75° 23' 21.06"			
Tangent =	40.2404			
Length =	74.0167			
Radius =	76.0000			
External =	9.9959			
Long Chord =	71.1260			
Mid. Ord. =	8.8340			
P.C. Station	40+00.00	N 6,883,792.0064	E	11,816,717.7948
P.T. Station	40+74.02	N 6,883,745.7283	E	11,816,663.7833
C.C.		N 6,883,819.8718	E	11,816,647.0875
Back = S	21° 30' 32.82" W			
Ahead = S	77° 18' 34.83" W			
Chord Bear = S	49° 24' 33.83" W			

Curve Data

Curve RET NW2				
P.I. Station	40+84.26	N 6,883,743.4782	E	11,816,653.7907
Delta =	9° 30' 05.27" (LT)			
Degree =	46° 29' 14.81"			
Tangent =	10.2429			
Length =	20.4388			
Radius =	123.2500			
External =	0.4249			
Long Chord =	20.4154			
Mid. Ord. =	0.4234			
P.C. Station	40+74.02	N 6,883,745.7283	E	11,816,663.7833
P.T. Station	40+94.46	N 6,883,739.6093	E	11,816,644.3065
C.C.		N 6,883,625.4891	E	11,816,690.8590
Back = S	77° 18' 34.83" W			
Ahead = S	67° 48' 29.56" W			
Chord Bear = S	72° 33' 32.20" W			

Curve Data

Curve RET NW3				
P.I. Station	41+15.97	N 6,883,731.4831	E	11,816,624.3856
Delta =	33° 16' 25.40" (RT)			
Degree =	79° 34' 38.90"			
Tangent =	21.5146			
Length =	41.8130			
Radius =	72.0000			
External =	3.1457			
Long Chord =	41.2279			
Mid. Ord. =	3.0140			
P.C. Station	40+94.46	N 6,883,739.6093	E	11,816,644.3065
P.T. Station	41+36.27	N 6,883,735.6185	E	11,816,603.2722
C.C.		N 6,883,806.2759	E	11,816,617.1115
Back = S	67° 48' 29.56" W			
Ahead = N	78° 55' 05.04" W			
Chord Bear = S	84° 26' 42.26" W			

Course from PT RET NW3 to R2 N 78° 55' 05.04" W Dist 68.9582

Point R2 N 6,883,748.8731 E 11,816,535.5999 Sta 42+05.23

Ending chain RET NW description

CURB RETURN SE - CONSTRUCTION BASELINE

** 1 DESCRIBE CHAIN RET SE

Chain RET SE contains:
CUR RET SE1 CUR RET SE2 R11

Beginning chain RET SE description

Curve Data

Curve RET SE1				
P.I. Station	20+24.37	N 6,883,617.4353	E	11,816,649.0413
Delta =	14* 46' 25.26" (RT)			
Degree =	30* 28' 35.32"			
Tangent =	24.3730			
Length =	48.4757			
Radius =	188.0000			
External =	1.5733			
Long Chord =	48.3415			
Mid. Ord. =	1.5603			
P.C. Station	20+00.00	N 6,883,595.7932	E	11,816,637.8314
P.T. Station	20+48.48	N 6,883,635.5035	E	11,816,665.3994
C.C.		N 6,883,509.3262	E	11,816,804.7669
Back = N	27* 22' 57.46" E			
Ahead = N	42* 09' 22.72" E			
Chord Bear = N	34* 46' 10.09" E			

Curve Data

Curve RET SE2				
P.I. Station	20+99.90	N 6,883,673.6219	E	11,816,699.9101
Delta =	61* 10' 08.54" (RT)			
Degree =	65* 51' 25.98"			
Tangent =	51.4199			
Length =	92.8813			
Radius =	87.0000			
External =	14.0594			
Long Chord =	88.5327			
Mid. Ord. =	12.1035			
P.C. Station	20+48.48	N 6,883,635.5035	E	11,816,665.3994
P.T. Station	21+41.36	N 6,883,661.7706	E	11,816,749.9457
C.C.		N 6,883,577.1129	E	11,816,729.8939
Back = N	42* 09' 22.72" E			
Ahead = S	76* 40' 28.75" E			
Chord Bear = N	72* 44' 26.99" E			

Course from PT RET SE2 to R11 S 76* 40' 28.75" E Dist 40.6929

Point R11 N 6,883,652.3917 E 11,816,789.5430 Sta 21+82.05

Ending chain RET SE description

CURB RETURN SW - CONSTRUCTION BASELINE

** 1 DESCRIBE CHAIN RET SW

Chain RET SW contains:
R6 R7 CUR RET SW1 CUR RET SW2

Beginning chain RET SW description

Point R6 N 6,883,723.3169 E 11,816,528.4388 Sta 10+00.00

Course from R6 to R7 S 74* 02' 47.91" E Dist 40.0324

Point R7 N 6,883,712.3138 E 11,816,566.9294 Sta 10+40.03

Course from R7 to PC RET SW1 S 72* 53' 55.08" E Dist 13.0421

Curve Data

Curve RET SW1				
P.I. Station	11+09.50	N 6,883,691.8857	E	11,816,633.3261
Delta =	106* 40' 35.90" (RT)			
Degree =	136* 25' 06.68"			
Tangent =	56.4260			
Length =	78.1981			
Radius =	42.0000			
External =	28.3413			
Long Chord =	67.3827			
Mid. Ord. =	16.9223			
P.C. Station	10+53.07	N 6,883,708.4786	E	11,816,579.3949
P.T. Station	11+31.27	N 6,883,644.9845	E	11,816,601.9546
C.C.		N 6,883,668.3355	E	11,816,567.0443
Back = S	72* 53' 55.08" E			
Ahead = S	33* 46' 40.83" W			
Chord Bear = S	19* 33' 37.13" E			

Curve Data

Curve RET SW2				
P.I. Station	11+44.90	N 6,883,633.6538	E	11,816,594.3756
Delta =	6* 23' 43.37" (LT)			
Degree =	23* 28' 54.76"			
Tangent =	13.6318			
Length =	27.2354			
Radius =	244.0000			
External =	0.3805			
Long Chord =	27.2212			
Mid. Ord. =	0.3799			
P.C. Station	11+31.27	N 6,883,644.9845	E	11,816,601.9546
P.T. Station	11+58.51	N 6,883,621.5493	E	11,816,588.1059
C.C.		N 6,883,509.3262	E	11,816,804.7669
Back = S	33* 46' 40.83" W			
Ahead = S	27* 22' 57.46" W			
Chord Bear = S	30* 34' 49.14" W			

Ending chain RET SW description

SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	IF(4)

P.A.C. PLANS

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Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

TMP/SOC
Temporary Traffic Control Plan General Notes

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4N0-0	IG(1)

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

Temporary Traffic Control Plan

General Notes:

1 TMP/SOC Type B Project Information:

a Identify the project's TMP Type:
This project's TMP/SOC plan has been designed in conformance with a Type B TMP/SOC plan.

b Identify the work zone location, length, and widths:
The project location is as shown on Sheet 1A.
The work zone areas have been delineated as shown on the TMP/SOC plan sheets 1H series through 1K series. The work zone lengths and widths vary by location as shown on the TMP/SOC plan sheets on the 1H series through 1K series.

c Note the hours the Construction Area will be active:
Construction Area shall be considered active when any impact to traffic occurs (First Cone In Road).
Construction Area hours have the following limitations:

One-lane closures will be restricted as follows:
9:30am to 3:00pm & 10:00pm to 5:00am on Monday through Thursday
9:30am to 2:00pm on Friday
10:00 pm Friday to 9:00am Saturday, 10:00pm Saturday to 8:00am Sunday, 10:00pm Sunday to 5:00am Monday

No lane closures will be allowed from noon on the day before a holiday until noon on the workday following the holiday. Holidays include all State and Federal holidays.

Designation of Night Time Hours and Peak Hour Times:
Night time hours shall be designated as hours between 9:30pm through 5:00am.
Peak hours are 6:00am through 9:30am & 3:00pm through 7:00pm.

Installation/removal of Concrete Traffic Barrier Service shall only occur during night time hours or non-peak hours using VWAPM TTC-24J, or as directed by the Engineer.

d The TMP/SOC plan, during construction, shall be in accordance with Sections 512, 701, 703 & 704 of the Virginia Department of Transportation Road and Bridge Specifications, dated 2016, the Virginia Work Area Protection Manual, dated 2011, Revised April 2015, the Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition, and the Virginia Department of Transportation Road and Bridge Standards, dated 2016.

e Note any existing entrances, existing intersections, or existing pedestrian access points that will be affected by the Construction Area or by the traffic control devices:

Existing Entrances:
All existing commercial or private entrances shall remain open for the duration of construction unless otherwise indicated on this plan.

Existing Intersections:
There are two signalized intersections within the project limits. They are the intersections of:
Jefferson Davis Highway (Route 1) @ Joplin/Fuller Road (Route 619)
Fuller Road (Route 619) @ Fuller Heights Connection
The signalized intersection at Fuller Road (Route 619) @ Fuller Heights Connection will be added as part of the proposed improvements.

There are two unsignalized intersections within the limits of this project. They are the intersections of:
Fuller Heights Road @ Fuller Road (Route 619)
Fuller Heights Road @ Old Triangle Road
The Fuller Heights Road @ Fuller Road (Route 619) intersection will be closed as part of the proposed improvements.

All intersections are to remain open during construction unless otherwise indicated on this plan. Intersections may be reduced to one lane when the construction zone is active, using VWAPM TTC-28J or as approved by the Engineer. When the construction zone is not active, all intersections shall be open.

Existing Pedestrian Access Points:
Within the project limits, pedestrian access points are very limited. Most pedestrian access points occur at the intersections. Where possible, pedestrians will be directed to cross Jefferson Davis Highway and use the pedestrain facilities on the other side of the street. For all other locations, the sidewalk is to be closed at the project's limits as there are not enough pedestrian paths within the projects to maintain until the project is completed. If requested by the Engineer, the project shall install a 4' orange safety fence wherever directed to discourage pedestrians from walking through the project, at no additional cost to the project.

Existing Bus Stops:
There are several public bus stops within the project limits. Coordination with PWC-DOT and PRTC is required to determine if any bus stops will require relocation during construction.

f Identify the major types of travelers:
The roadway carries large diverse types of travelers. In the peak hours however, commuters are the prevailing traveler type for this roadway.

g The Contractor, at no additional cost to the project, which shall be considered incidental to the cost of the project, shall:

Designate a person assigned to the project who will have the primary responsibility, with sufficient authority, for implementing the TMP/SOC and other safety and mobility aspects of the permit work. This person shall be designated the "Project Safety Officer."
Ensure that personnel assigned to the project are trained in traffic control to a level commensurate with their responsibilities in accordance with VDOT's work zone traffic control training guidelines.

Inform the Engineer of any work requiring lane shifts, lane closures, and/or phase changes a minimum of two working days prior to implementing this activity.

Perform reviews of the Construction Area to ensure compliance with contract documents at regularly scheduled intervals at the direction of the Engineer. Contractor shall maintain a copy of the temporary traffic control plan at the work site at all times.

Coordinate with Prince William County Police Department, Prince William County Fire/Rescue Department, and Virginia State Police for any lane closures and any detours of any nature at least seven working days prior to implementing a lane closure.

Schedule all phases of construction in such a manner that water, sanitary sewer, cable, fiber cable/optic cable, any overhanging utilities, and any underground utility services will not be interrupted.

h During working hours, all construction equipment is to stay outside of the construction area clear zone as designated in the VWAPM, Appendix A. Construction equipment is not to block or obstruct sight distance at any intersection or private entrance along the project when the construction work zone is active.

2 This TMP/SOC plan is intended as a guide. It is not to enumerate every detail which must be considered in the construction of each phase, but only to show the general handling of existing traffic. It shall be the responsibility of the Contractor to present a formal TMP/SOC plan with construction signage to the Engineer for approval prior to any construction activity that may affect the existing traffic.

3 Contractor is to maintain two lanes of traffic (one in each direction) on Fuller Road/Joplin Road and is to maintain a minimum of one lane of traffic on all street connections when the construction zone is active unless otherwise specified by the Engineer. When the construction zone is not active, zone is active unless otherwise specified by the Engineer. When the construction zone is not active, the Contractor shall ensure all street connections maintain a minimum of two lanes of traffic (one in each direction). During construction of this project, the travelway shall have a minimum clear roadway width in accordance with VDOT standard GS-10 unless otherwise approved by the Engineer. For commercial connections, or private entrances, a minimum width no less than the existing width shall be maintained at all times, unless approved by the Engineer.

4 Concrete Traffic Barrier Service shall be installed and removed so as to not present any blunt end or hazard to the motoring public. The placement and removal of Concrete Traffic Barrier Service are to be coordinated by the Project Safety Officer. When Concrete Traffic Barrier Service is installed, impact Attenuators shall be placed at the beginning of the Concrete Traffic Barrier Service. Project Safety Officer shall ensure Concrete Traffic Barrier Service is installed in accordance with VDOT's and manufacturer's specifications to prevent deflection. Additionally, Project Safety Officer shall ensure Concrete Traffic Barrier Service, when installed with flares, shall be in accordance with VDOT's Virginia Work Area Protection Manual.

Note: There are portions of the project in which the Contractor will be working within 2' behind the Concrete Traffic Barrier Service. The Concrete Traffic Barrier Service shall be pinned in these locations and the Contractor shall implement VWAPM TTC 23J and TTC 24J when working in these areas.

5 Contractor shall follow the geotechnical recommendations for the project. Materials designated as unsuitable material as detailed in the geotechnical recommendations shall be disposed of offsite and are not to be used for any part of construction. Existing surface, aggregate base, and sub base material which will be demolished or obliterated during construction, and which are suitable for maintenance of traffic, should be utilized prior to the use of commercial material.

6 Each phase of construction shall be completed to the installation of intermediate course asphalt prior to the start of the next phase unless otherwise directed by the Engineer.

7 Contractor shall ensure positive drainage for the duration of the project. Contractor shall add any additional temporary measures necessary to facilitate proper, positive drainage for the duration of construction.

8 The cost to remove the construction pavement markings and pre-approved black tape shall be included in the cost to install construction pavement markings and will not be paid for as a separate item.

9 Where Group 2 Channelizing Devices are used to separate the Construction Area and traffic, a minimum clear zone area as defined in the VWAPM is to be maintained.

10 The Contractor is to coordinate with Prince William County for location(s) of the construction staging area(s). Contractor is responsible for obtaining easements and permits associated for these location(s). Contractor is solely responsible for the cost to acquire easement for staging area and it shall not be paid for as a separate item. Potential staging areas for construction are at stormwater management basins and storm water management ponds.

11 All areas excavated below the existing pavement surface and within the clear zone at the conclusion of each workday shall be backfilled to form an approximate 6:1 wedge against the existing pavement or newly constructed pavement surface for the safety and protection of vehicular traffic. All costs for placing, maintaining, and removing 6:1 wedge shall be included in the price bid for other items in the contract and no additional compensation will be allowed.

12 IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN
During the first day of the new work zone traffic pattern, the project's Manager and project's Maintenance of Traffic Coordinator shall inspect the work zone to ensure compliance with the TMP. On the third to fifth day of implementation of the TMP's new work zone traffic pattern, the District Work Zone Safety Coordinator and the project's Maintenance of Traffic Coordinator shall conduct an on-site review of the work zone's performance and recommend to the Contractor any required changes to the TMP to enhance the work zone's safety and mobility. All such changes shall be documented. An on-site review of the project's work zone traffic control by the District Work Zone Safety Coordinator, Project's Manager/Maintenance of Traffic Coordinator, District Safety Engineer, and the Contractor shall be conducted within 48 hours of any fatal incident/crash within the work zone.

13 EVALUATION OF THE TRANSPORTATION MANAGEMENT PLAN
A performance assessment of the TMP including area-wide impacts on adjacent roadways shall be performed by the Regional Traffic Engineering and Operations sections during construction. As circumstances dictate, a review of the overall effectiveness of the project's TMP shall be completed during the Post Construction Meeting and included with the Post Construction Report. A copy of the specific information on the effectiveness of the TMP will be forwarded to the State Traffic Engineer for review. A copy of the TMP Interim/Post Construction Report Form can be obtained from the Regional Traffic Engineer.

14 PUBLIC COMMUNICATIONS PLAN
The Contractor shall be responsible for:

a Notifying the Project Manager/Residency Administrator two weeks in advance of any scheduled work plans and traffic delays.

b Notifying the Project Manager/Residency Administrator, Regional Operations Manager, and the Public Affairs staff of any unscheduled traffic delays.

15 TRANSPORTATION OPERATIONS
The Contractor shall be responsible for implementing and providing the following:

a Notifying the Northern Region Transportation Operations Center (TOC) 48 hours in advance in order to place lane closure information on the 511 System and VA-Traffic.

b Post a list of local emergency response agencies inside the project's construction office/trailer.

c Immediately report any traffic incidents that may occur in the work zone.

d Notify the project's Maintenance of Traffic Coordinator, Project Manager, Resident Administrator, District Work Zone Safety Coordinator, District Traffic Engineer, The Regional Operations Manager and Public Affairs Manager of any incidents and expected traffic delays.

e Within 24 hours of any incidents within the construction work zone, a review of the traffic controls shall be completed and necessary adjustments made to reduce the frequency and severity of any future incidents.

CONTACT NUMBERS

Project Manager	Gladis Arboleda	(703) 792-5276
Construction Manager	Mohammad Ayyoubi	TBD
Construction Safety Manager	TBD	TBD
Public Relations	TBD	TBD
VDOT Residency Administrator - Construction	TBD	TBD
District Work Zone Safety Coordinator(s)	TBD	TBD
Emergency Call		911
Non-Emergency Numbers:		
Prince William County Police		(703) 792-6500
Prince William County Fire & Rescue		(703) 792-6800

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IG(1)

P.A.C. PLANS

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JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IG(2)

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

MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION

Phase I

1. *Install signs and channelizing devices as shown on the plans along existing Fuller Heights Road, and Fuller Heights Conn./ Old Triangle Road.*
2. *Install erosion and sediment control measures as shown on the plans at appropriate times during this phase of construction.*
3. *Start lane closures utilizing flag men on the east and west ends of Fuller Heights Road and on Old Triangle Road. during off peak hours.*
4. *Demo existing sign island on north side of roundabout, patch underlying pavement to match existing surface if needed.*
5. *Install 15" pipe across new Fuller Heights roadway alignment from 6-4 to 6-1 and plug until the next phase. Install drainage inlets, pipes, manholes and applicable under drains from 8-4 through 8-8A.*
6. *Install Precast Concrete Rigid Frame across the new Fuller Heights roadway alignment.*
7. *After Precast Concrete Rigid Frame is completed, construct realigned Fuller Heights Road from approximate Station 10+28 (tieing to Fuller Road construction by others) through partial round as shown on Fuller Heights Connection*
8. *Install proposed traffic signal and equipment at the intersection of Fuller Heights Connection/Fuller Road.*
9. *Contractor shall maintain access to all private and commercial entrances at times during construction.*

Phase 2

1. *Install signs and channelizing devices as shown on the plans along existing Fuller Heights Road, and Fuller Heights Conn./ Old Triangle Road. Install signs and traffic devices on Joplin Road and ramps.*
2. *Install erosion and sediment control measures as shown on the plans at appropriate times during this phase of construction.*
3. *Using lane closures build the new medians and left turn lane on Joplin Road to the intersection with Jeff Davis Highway. Realign signal heads at intersection as needed.*
4. *Start lane closures utilizing flag men on the east and west ends of Fuller Heights Road and on Old Triangle Road. during off peak hours.*
5. *Install drainage inlets, pipes, manholes and applicable under drains from 8-1 through 8-12A.*
6. *Build the north side of Fuller Road, Fuller Road Conn. and the remainder of the round about.*
7. *Contractor shall maintain access to all private and commercial entrances at times during construction.*

Phase 3

1. *Install signs and channelizing devices as shown on the plans along existing Fuller Heights Road, and Fuller Heights Conn. Install signs and channelizing devices as shown on the plans for Fuller Road (by others).*
2. *Install erosion and sediment control measures as shown on the plans at appropriate times during this phase of construction.*
3. *Open round about to traffic from Fuller Road to Fuller Heights Conn. and Fuller Heights.*
4. *Close Fuller Heights Conn. at station 20+85 and at the entrance from Fuller Road (by others).*
5. *Demo pavement on Fuller Heights Road as shown. Construct the remaining curb and gutter/sidewalk across existing Fuller Heights Road at Fuller Road from approximate. station 201+00 to 202+00. This curb and gutter/sidewalk tie to Fuller Road (by others) must match grade, slope, drainage and existing pavement by others.*
6. *Add group 2 channelizing devices as shown then construct sidewalk along old Fuller Heights Road from station 24+00 to Fuller Road (by others) sidewalk at approximate. station 201+00. Constuct all work along old Fuller Heights Road including "Cul-de-sac" turn around and any new pavement.*
7. *Realign/install signal heads at intersection of Joplin Road and Jefferson Davis Highway as needed. Open Joplin Road left turn lane to traffic.*
8. *Apply all remaining final wearing surface asphalt courses, striping and incidentals on any roads that require completion of this job, this will be done during off peak hours.*
9. *Contractor shall maintain access to all private and commercial entrances at times during construction.*

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IG(2)

P.A.C. PLANS

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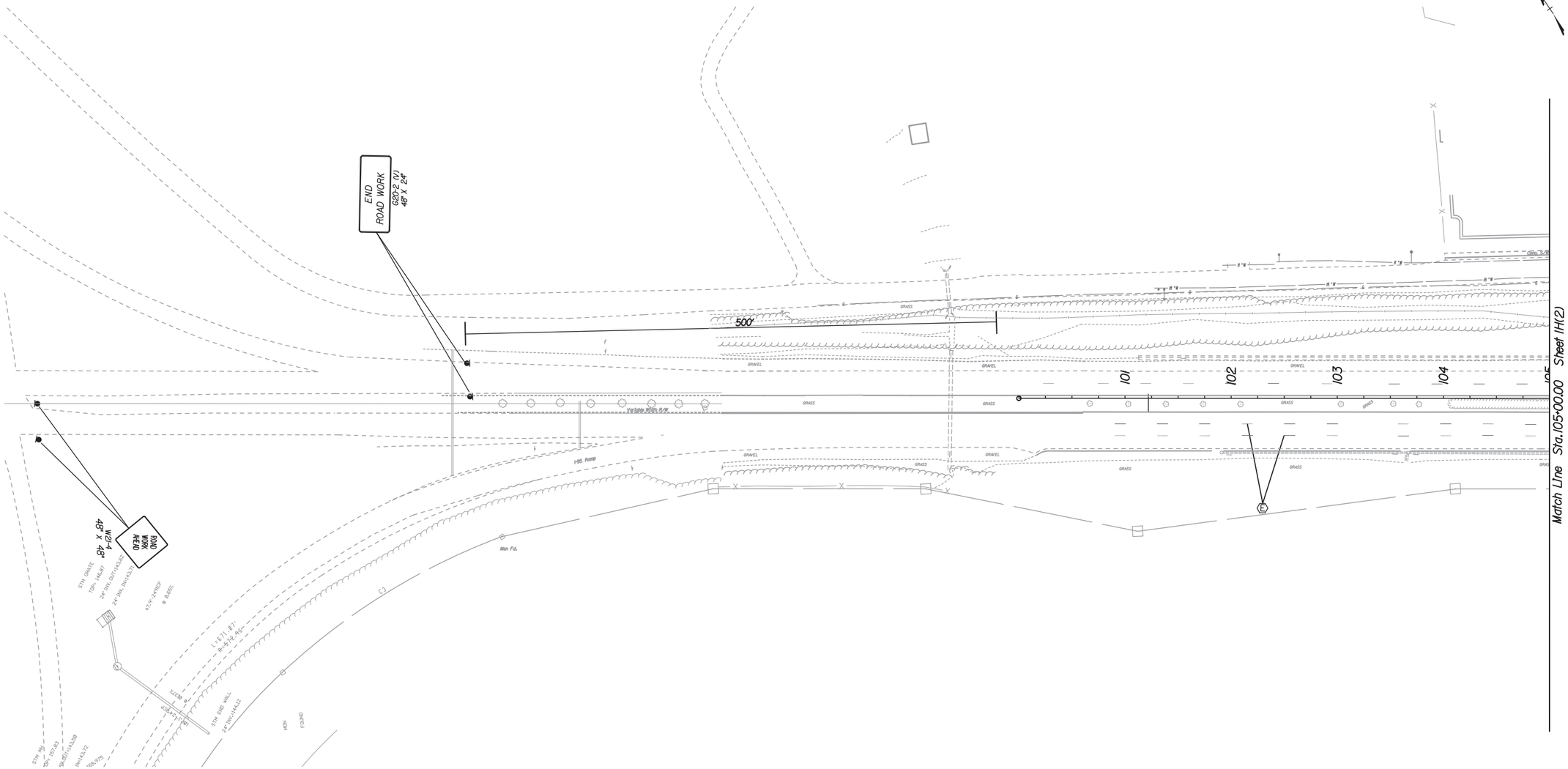
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis, Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IH(1)

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

SEQUENCE OF CONSTRUCTION, MAINTENANCE OF TRAFFIC
PHASE 1



CONSTRUCTION PAVEMENT MARKING LEGEND

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- Ⓔ Existing Pavement Markings
- Ⓕ Eradication Of Pavement Markings In Work Zones
- Ⓖ Type F, Class II Yellow Pavement Line Marking, 4 Inches Width,

LEGEND

- PERMANENT CONSTRUCTION IN THIS PHASE
- CONSTRUCTION BUILT PREVIOUSLY
- DEMOLITION OF PAVEMENT
- GROUP II CHANNELIZING DEVICES
- TRAFFIC FLOW ARROW
- (3-7) DENOTES DRAINAGE ITEMS

SCALE	PROJECT	SHEET NO.
0 50' 100'	VDOT 0001-076-995 PWC 1006-4N0-0	IH(1)

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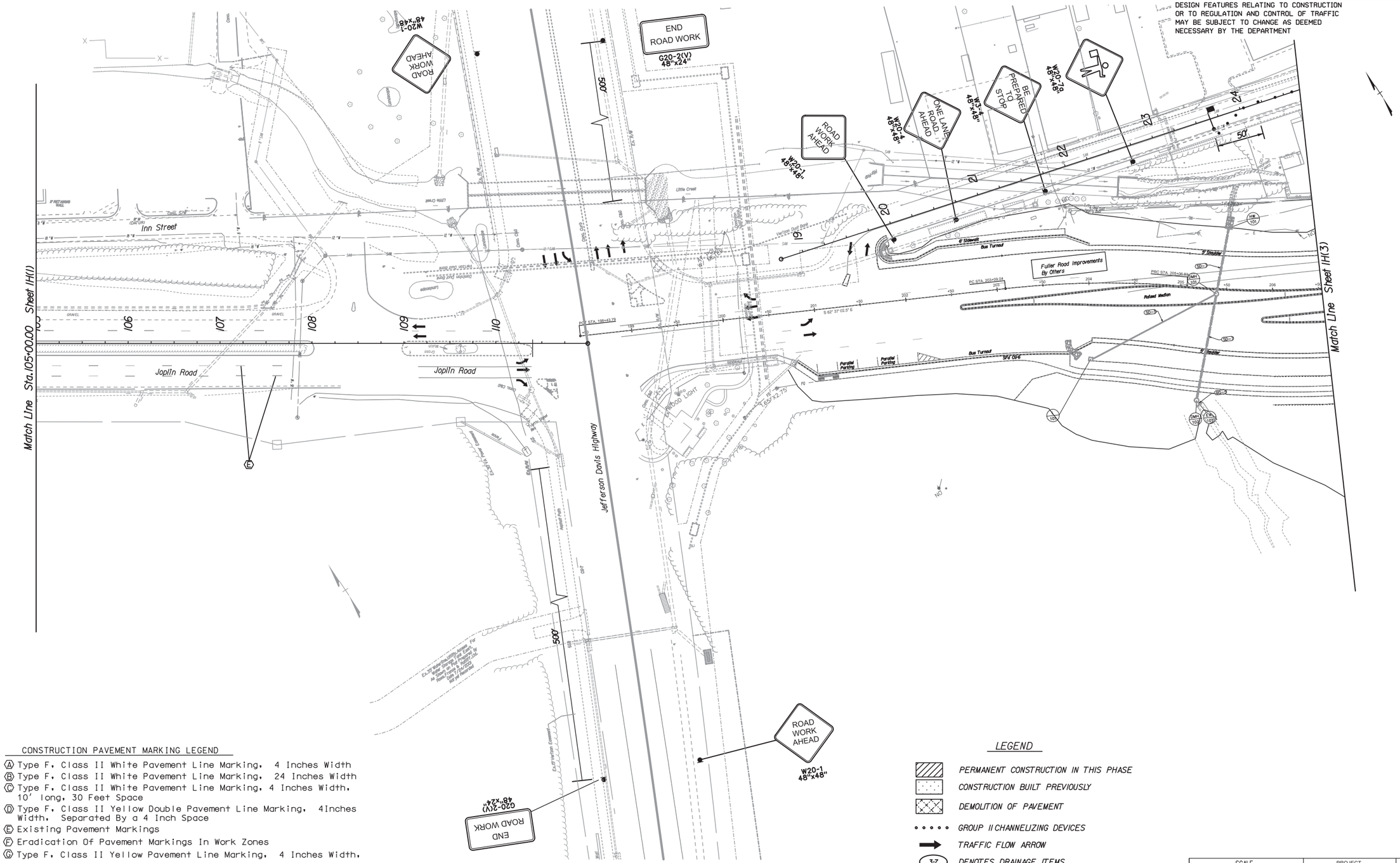

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SEQUENCE OF CONSTRUCTION, MAINTENANCE OF TRAFFIC PHASE 1

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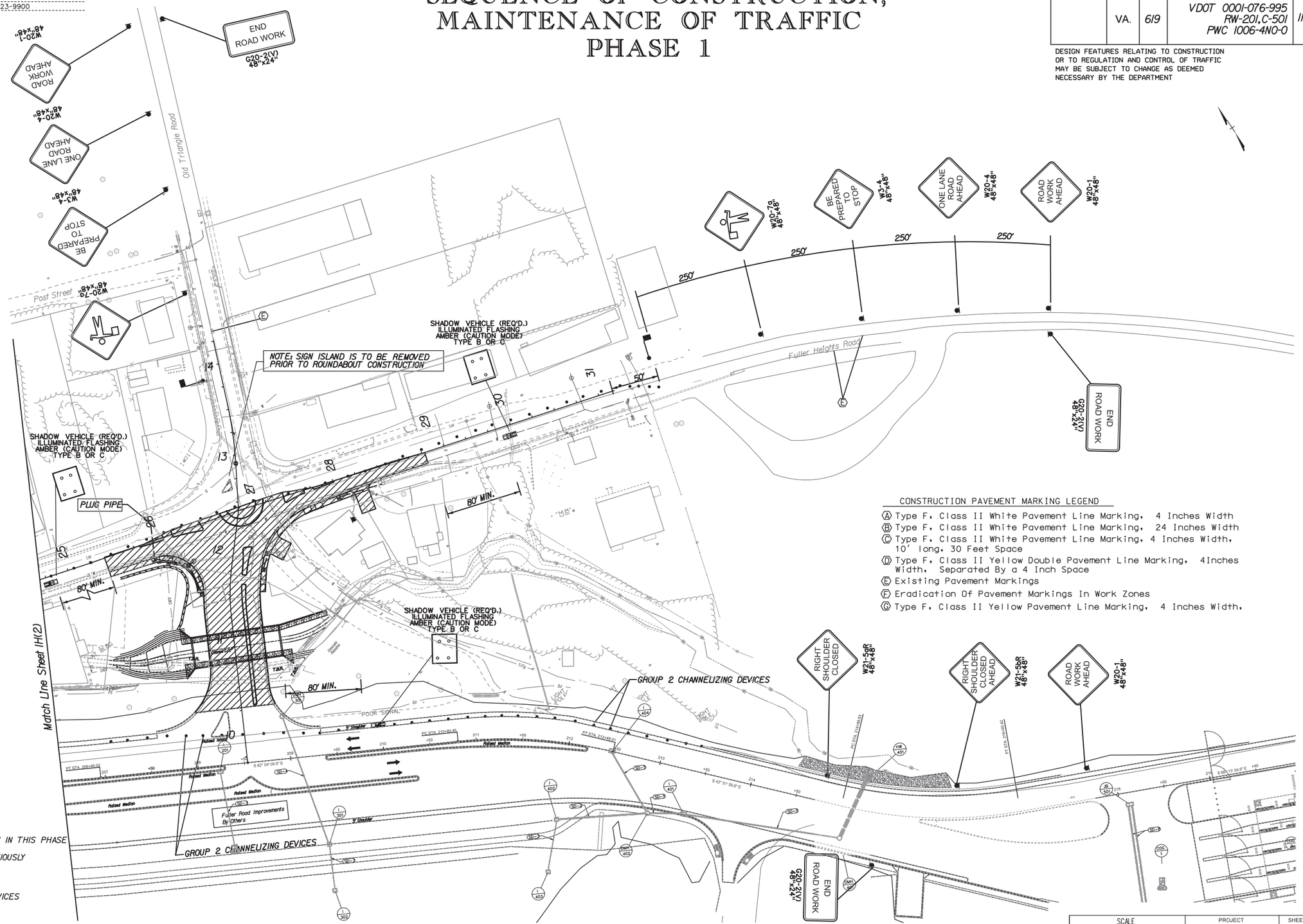

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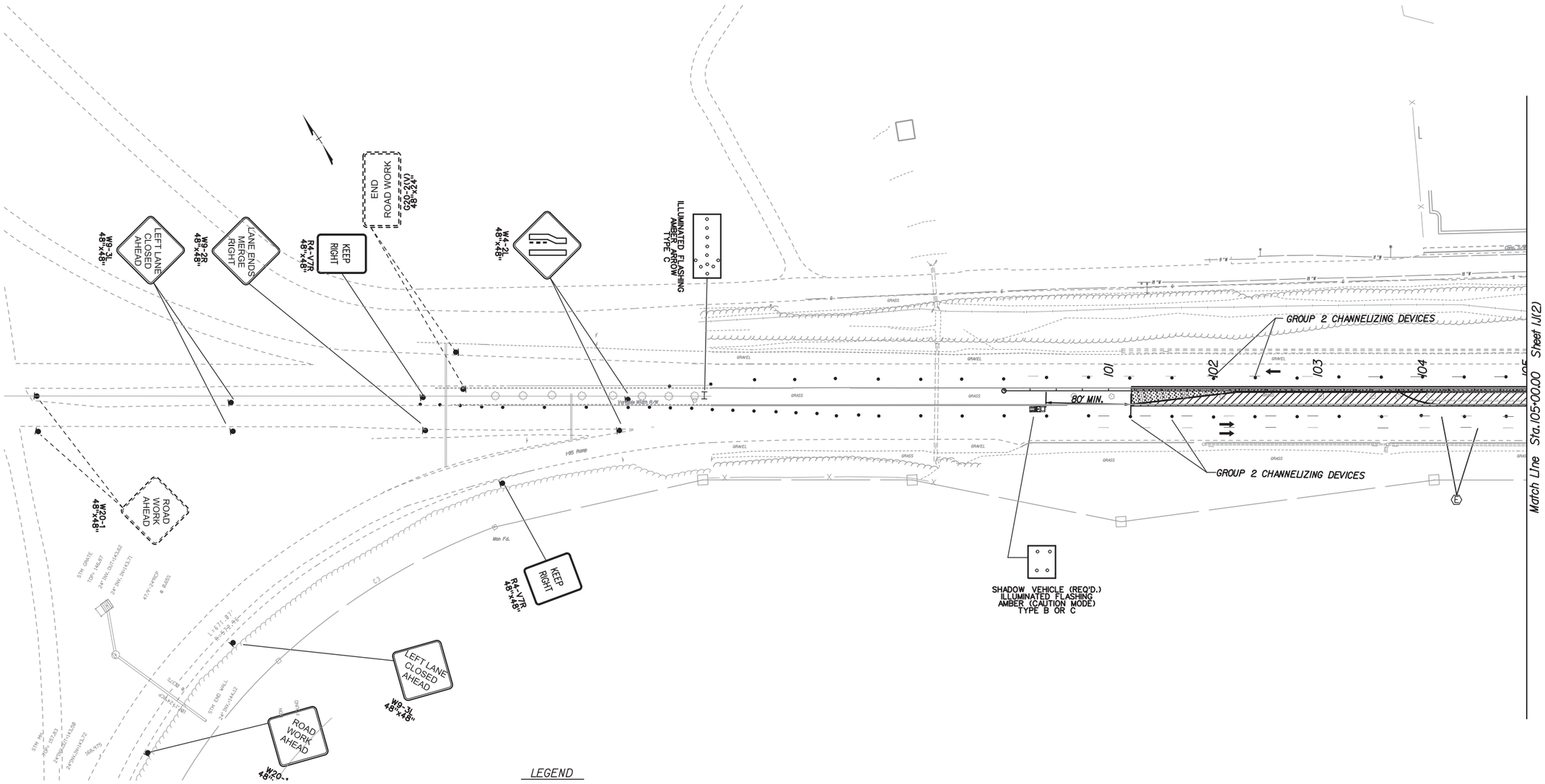
SEQUENCE OF CONSTRUCTION, MAINTENANCE OF TRAFFIC
PHASE 2



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PHASE 2

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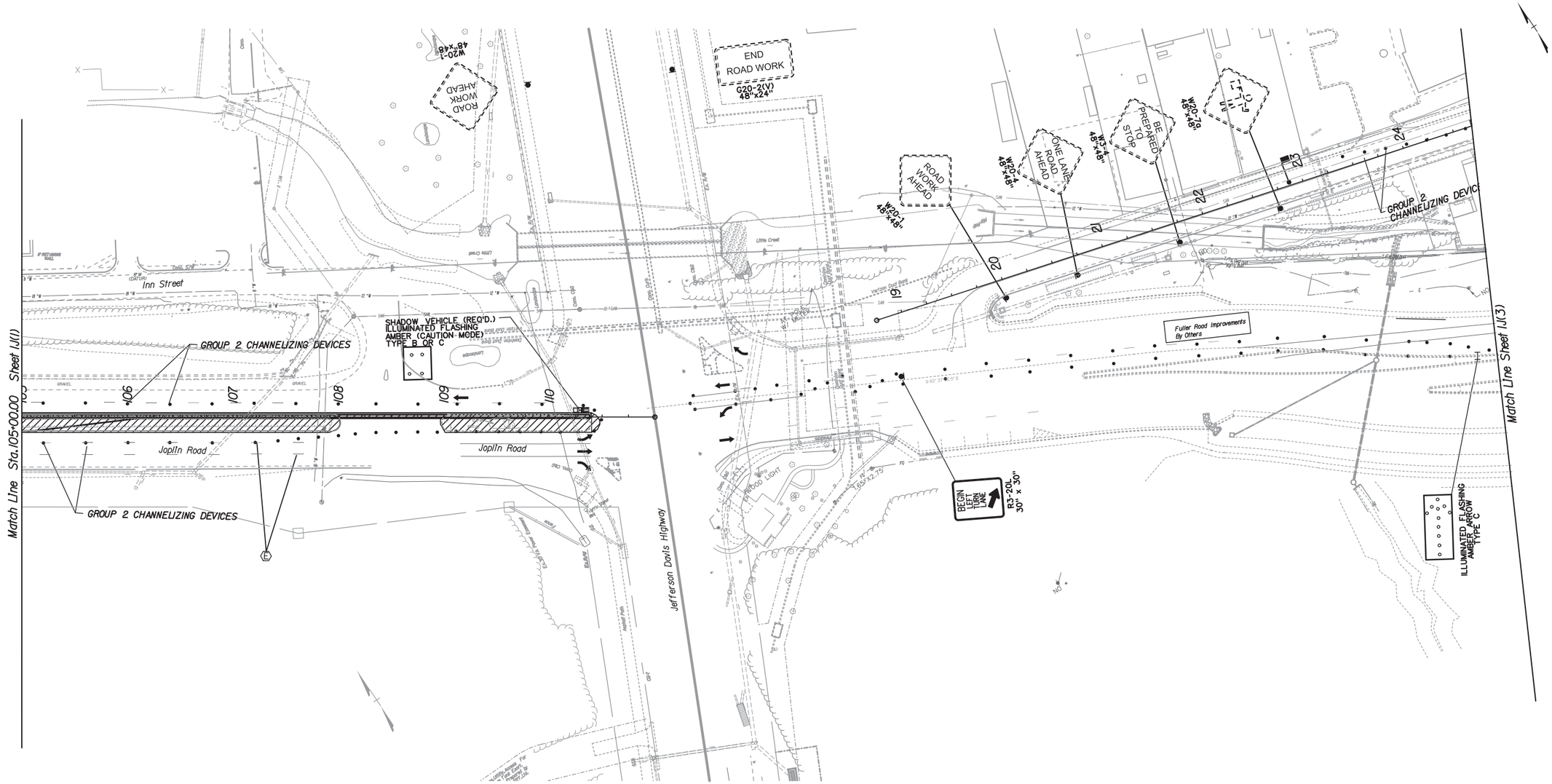

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SEQUENCE OF CONSTRUCTION, MAINTENANCE OF TRAFFIC PHASE 2

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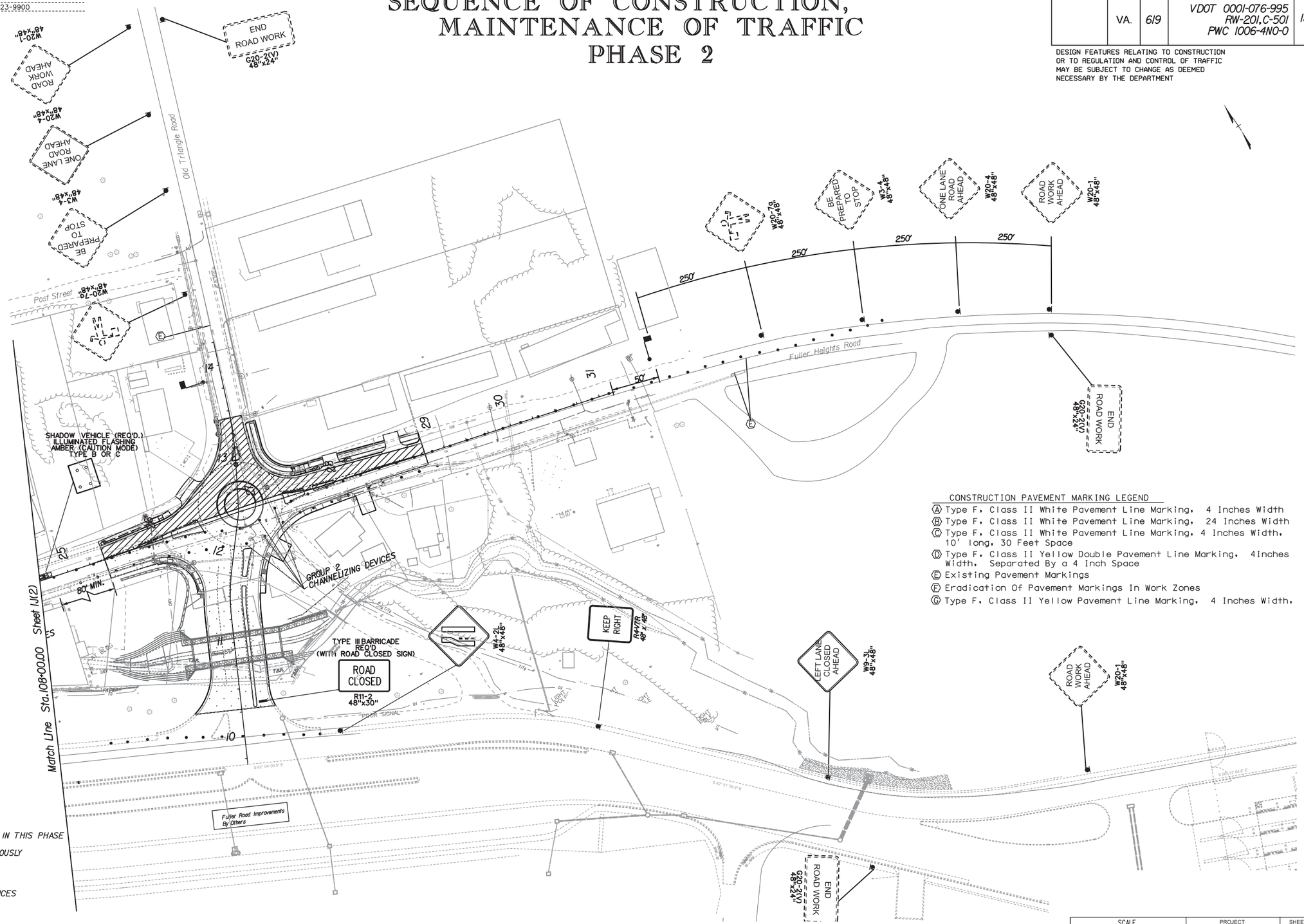

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SEQUENCE OF CONSTRUCTION, MAINTENANCE OF TRAFFIC
PHASE 3

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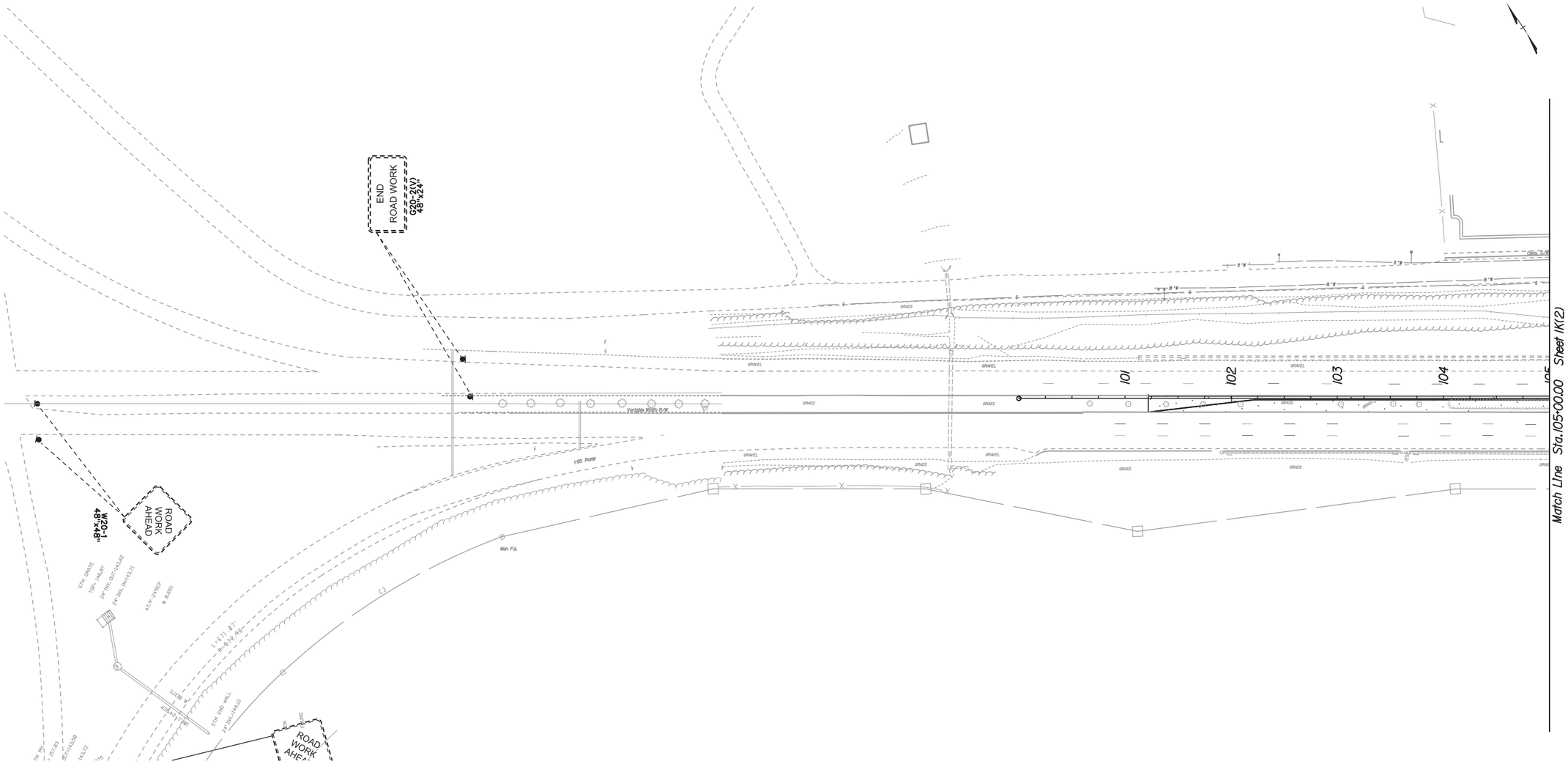

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SEQUENCE OF CONSTRUCTION, MAINTENANCE OF TRAFFIC PHASE 3

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
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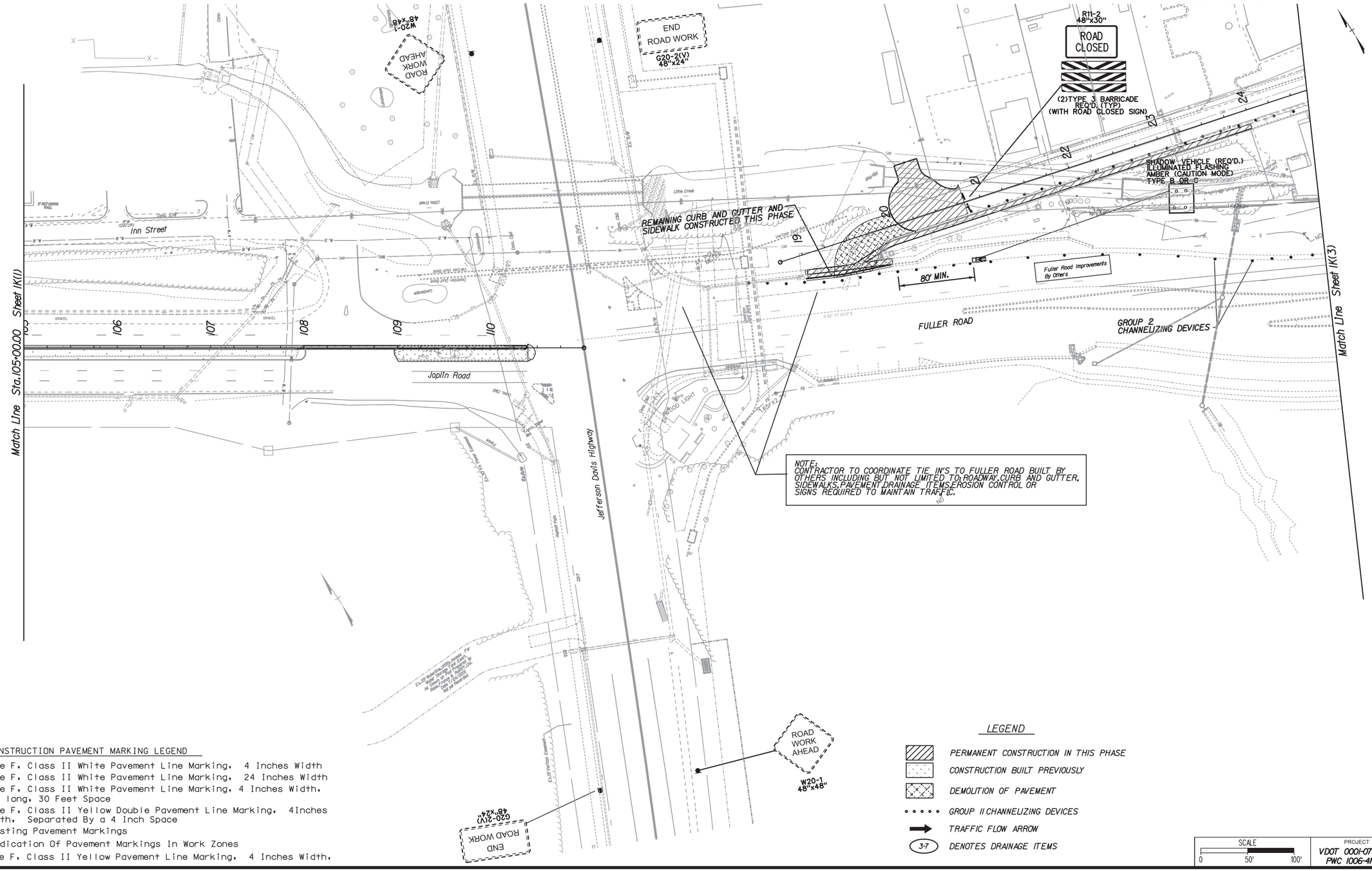

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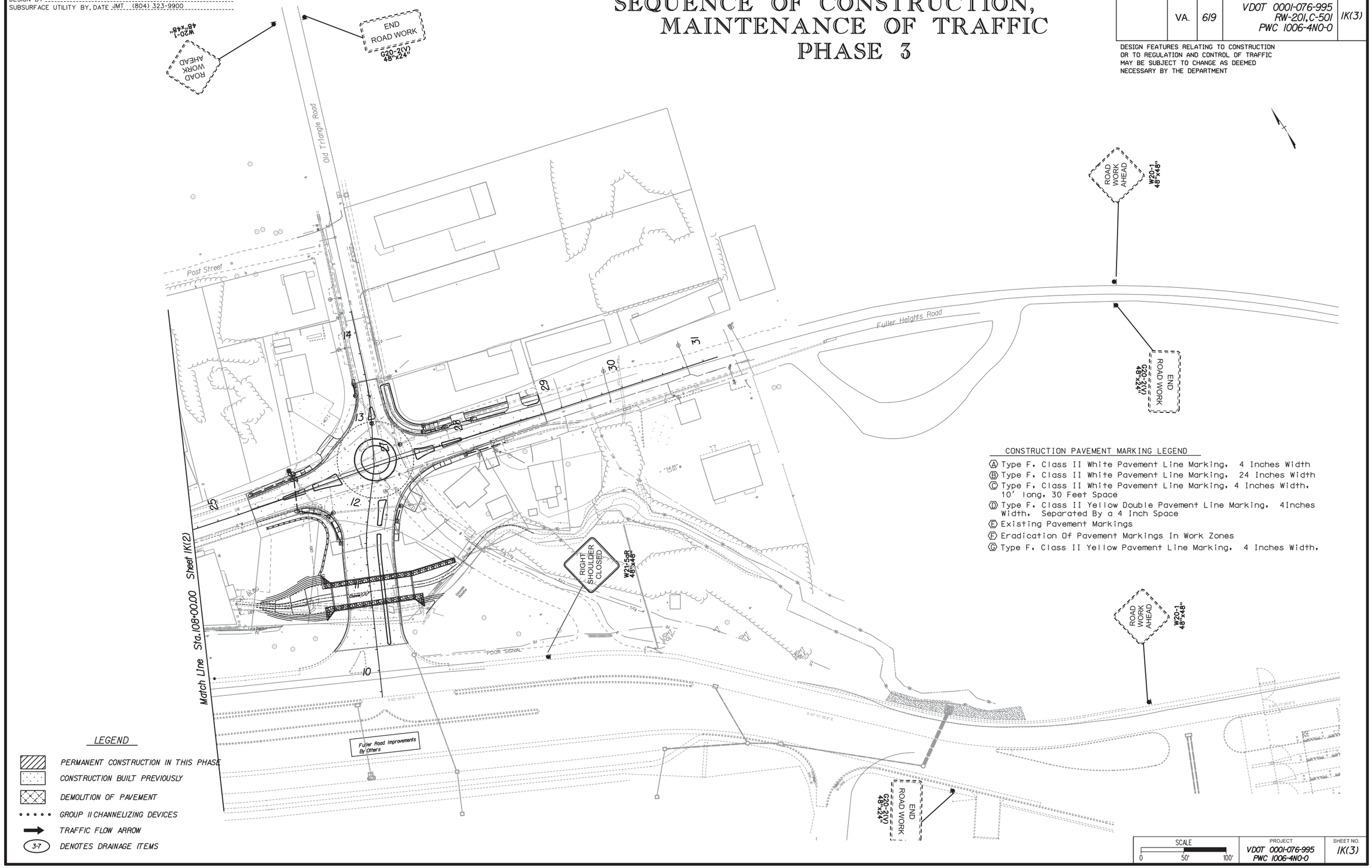

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IM(1)

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The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD (as defined in the latest IIM 242) will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents)for the land disturbance (construction) activity.

I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that this document and all other documents related to the SWPPP, as identified on the SWPPP General Information Sheets, are maintained at the activity site, or at a location convenient to the activity site where no on-site facilities are available, and such documents will be made available for review upon request in accordance with the provisions of the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when applicable. Where the SWPPP documents are not stored on-site, a copy of such documents shall be in the possession of those with day to day operational control over the implementation of the SWPPP whenever they are on site.

* or ** Delegated Authority Signature"

Signature: _____
Printed Name: _____
Date:_____

(1) See Section 1, Item 11 relating to delegation of authority, and form LD-445H (Delegation of Authority).

ACRONYMS

CBPA - Chesapeake Bay Preservation Act
BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSMP - Virginia Stormwater Management Program
VESCP - Virginia Erosion and Sediment Control Program
WLA - Waste Load Allocation
SWM - Stormwater Management

SECTION I GENERAL INFORMATION

1. Activity Description - This project involves the construction of left turn in the existing raised median on Joplin Road approaching the Route 1 intersection. A mini-roundabout will be constructed at the intersection of Old Triangle Rd/Fuller Heights Rd. A connection will be constructed from the mini-roundabout to the P588 Fuller Road Improvements constructed by others for Quantico.

2. This land disturbance (construction) activity site is located in Prince William County and approximately 1.80 acres will be disturbed by excavation, grading or other construction activities.

3. (Include one of the following notes as appropriate)

A. This proposed activity disturbs one acre or greater and requires coverage under the VPDES General Permit for Discharges Of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 & LD-445C forms) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing activity.

** 4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

** 5. Written Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form of the Construction General Permit coverage letter: (List VPDES Permit * or Letter from VSMP Authority stating coverage not needed)

6. List the surface waters that have been identified as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, Nitrogen or Phosphorus. These pollutants are considered benthic impairments: Little Creek

7. Identify the TMDL's where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2016 for sediment, total suspended solids, turbidity, nitrogen or phosphorus:(List the TMDL and pollutant(s)of concern, when applicable)

8. This land disturbance activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code: None

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity. (List name of surface waters and locations here if not shown in construction plan or other such documents).

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Approved Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. List the RLD and other responsible parties for the land disturbance activity: (required for erosion and sediment control). The following individual(s) have "delegated authority" to sign all reports required by the construction permit including the SWPPP General Information Sheets and Inspection Reports (C-107). Reference form LD-445H for delegation of authority (form 445H for the project is hereby incorporated by reference into this SWPPP). These individual(s) has/have overall responsibility or the environmental matters for the project: (required only for permitted projects):

Name	Position	Responsibility
	RLD	Certify the SWPPP (with date & sig.)
	Certified Inspector	Sign (C-107) Inspection Form Part 1
	Certified Inspector	Sign (C-107) Inspection Form Part 2

* 12. The name of the VDOT individual(s) responsible for the oversight inspection in accordance with IIM-LD-256 on these land disturbance construction activities as identified on these SWPPP General Information Sheets. The names will be updated and maintained with the other SWPPP documents for this land disturbance activity.

VDOT Individuals	Position	Responsibility
	NPDES	NPDES coordinator responsible for the oversight inspection in accordance with IIM-LD-256
	Dist. Hyd. Engineer	District Hydraulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM plan modification(s).

* 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule *2 is used, void note *14) as defined in 2016 R&B Specifications except for Section 107.16(e) 4.an Inspection Requirements Rain gauge notes apply only to Inspection Schedule 1.

** 14. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance activity: (List location of rain gage).

The rain gage shall be observed daily at "_____" to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage.
If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.
If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

15. The following VDOT documents are applicable to a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 S.F. to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:

VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP and ESC projects > 10,000 s.f. but <1 acre.
VDOT LD-445A: Permitted projects only.
VDOT LD-445C: Projects that require a permit, ESC Plan, or SWPPP.
VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
VDOT LD-445F: Emergency work projects (when applicable).
Water Quality Requirement (when applicable)
VDOT LD-445H: Permitted projects only.
VDOT C-107 Part I and Part II. All projects that require a permit or SWPPP.
VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive loading of sediment from the project (i.e. more than to be expected from the project with an implemented ESC plan) that is discovered within a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, (see note *7) the contractor shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permits approved standards and specifications required by Part I.B of the current Construction General Permit. If corrective action is necessary, the contractor shall initiate corrective actions no later than 5 business days after the initial investigation.

17. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the contractor is discovered discharging into a MS-4, the contractor shall notify the municipality with jurisdiction over erosion and sediment control activities.

* Denotes information that is to be provided/completed by the RLD.

** Denotes information that is to be provided/completed by the contractor.

Revised 5/1/19

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IM(1)

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

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PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IM(2)

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

SECTION II EROSION AND SEDIMENT CONTROL

✳✳ 1. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with the current edition of Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.

2. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

3. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

4. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section IV.

✳✳ 7. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity: (List how this will be tracked and the location)

8. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in the current edition of Sections 107.16 and 303.03 of the VDOT R&B Specifications.

9. Nutrients shall be applied in accordance with the current edition of Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events. Top soil shall be applied in accordance with the current edition of section 602 of the latest Road and Bridge Specifications.

10. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the VDOT NOVA District Hydraulics Section and will be made available for review upon request during normal business hours.

11. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis, elimination of a perimeter control, change to ESC concept that would affect the quantity or direction of flow of water) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.

12. The areas beyond the project's construction limits are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

13. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.

14. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.

15. The contractor shall plan and implement his land disturbance operations in order to:
- a. Control the volume and velocity of stormwater runoff within the site to minimize erosion.
- b. Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.
- c. Minimize the amount of soil exposed.
- d. Minimize the disturbance of steep slopes.
- e. Minimize sediment discharge from the site.
- f. Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
- g. Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

✳✳ 16. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.

17. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be identified, stabilized, and protected with sediment trapping measures.

18. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.

19. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Variance

(1) Type of modification (Variance from ESC regulations, or Deviation from published guidance)
(2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
(3) Date that variance/exception/deviation was approved by DEQ.

SECTION III POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1A or 1B that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

1. (Include one of the following notes as appropriate)

~~✳ A. This land disturbance activity is grandfathered under Section 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical criteria (i.e., Performance or Technology Based, MS-19, etc.) in Section 9VAC25-870-93 et seq. of the VSMP Regulations.~~

✳ B. This land disturbance activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

2. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance activity by the DEQ in its letter dated (date).

3. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Waiver

(1) Type of modification (Variance, or Exception from SWM Regulations or Deviation from published guidance)
(2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
(3) Date that variance/exception/deviation was approved by DEQ.

4. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

5. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the VDOT NOVA District and will be made available for review upon request during normal working business hours.

ACRONYMS

CBPA - Chesapeake Bay Preservation Act
BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSMP - Virginia Stormwater Management Program
VESCP - Virginia Erosion and Sediment Control Program
WLA - Waste Load Allocation
SWM - Stormwater Management

✳ Denotes information that is to be provided/ completed by the RLD.

✳✳ Denotes information that is to be provided/completed by the contractor.

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	PROJECT	SHEET NO.
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SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IM(3)

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

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION IV SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

✻✻ 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

4. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

✻ 5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

6. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once per month.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:
   a. Wastewater from concrete washouts.
   b. Wastewater from the washout and cleanout of stucco, paint, from release oils, curing compounds and other construction materials.
   c. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
   d. Oils, toxic substances or hazardous substances from spills or other releases.
   e. Soaps, solvents or detergents used in equipment and vehicle washing.
   f. There shall be no discharge of floating solids or visible foam in other than trace amounts

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:
   a. Discharges from firefighting activities.
   b. Fire hydrant flushings.
   c. Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
   d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
   e. Potable water sources including uncontaminated waterline flushings managed in a manner to avoid stream impacts.
   f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
   g. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
   h. Uncontaminated air conditioning or compressor condensate.
   i. Uncontaminated ground water or spring water.
   j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
   k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
   l. Landscape irrigation.

✻✻ 3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:
   a. Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
   b. Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
   c. Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
   d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
   e. Describe the pollution prevention practices and procedures that will be implemented to:
      1) Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.
      2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
      3) Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.
      4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
      5) Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.
      6) Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.
      7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, waste concrete and sanitary wastes.
      8) Address any other discharge from any potential pollutant-generating activity not listed herein.
      9) Minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day, or implementing other similarly effective practices. Minimization of exposure is not required in case where the exposure to precipitation will not result in a discharge of pollutants.
      10) Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

✻ Denotes information that is to be provided/completed by the RLD.

✻✻ Denotes information that is to be provided/completed by the contractor.

Revised 5/1/19

PROJECT	SHEET NO.
VDOT 0001-076-995 PWC 1006-4N0-0	IM(3)

P.A.C. PLANS

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IM(4)

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

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION VI - PERMANENT BMP INFORMATION △

⁎ Denotes information that is to be completed by the RLD.
( ) See note referenced by number in parentheses.

INSTALLED BMP INFORMATION
(VDOT Owned/Operated)

Plan Sheet(s)	Date BMP Made Functional	Type of BMP Installed (See Table A and C)	Geographic Location (County or City)	Latitude/Longitude (1) LAT	Latitude/Longitude (1) LONG	VA 6th Order HUC (7)	Receiving Water (2)	Name of Impaired Water (9)	Acres Treated Per BMP (3) Impervious	Acres Treated Per BMP (3) Pervious	Acres Treated Per BMP (3) TOTAL	⁎ BMP Maintenance ID Number (10)	BMP Maintenance Manual (11) SECTION	BMP Inspection Manual (11) SECTION
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⁎ALTERNATIVE BMP INFORMATION

Plan Sheet(s)	Date	Type of BMP Installed (See Table B)	Geographic Location (County or City) (5)	Latitude/Longitude (1) (5) LAT	Latitude/Longitude (1) (5) LONG	VA 6th Order HUC (5) (7)	Receiving Water (2)	Name of Impaired Water (9)
-----	-----	Purchase of Nutrients Credits	Prince William	38° 32'39.54"	77° 19'56.60"	PL52	LITTLE CREEK	
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Perpetual Nutrient Credits Acquired for Project

Name of Nutrient Credit Generating Entity (6)	Nutrient Credits (lbs./TP./year) Acquired (6) (12)
TBD	1.1

△ Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the informationshown in the BMP Tables A and/or B shall be coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/approved changes to the proposed SWM Plan and/or the proposed BMP construction details. All plan revisions shall be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the construction record drawings maintained in the VDOT Central Office Plan File Room (ProjectWise). Prior to submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities, the RLD shall have the District Maintenance Division review the BMPs installed with the project (BMP Table A) for acceptance of maintenance responsibility and to obtain a Maintenance ID number for each BMP listed in BMP Table A. The RLD shall use the informationin BMP Tables A and B along with the assigned Maintenance ID number and the date that the BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under theVPDES General Permit For The Discharge Of Stormwater From Construction Activities.

Table A: Permanent BMP Types (1999 Va. SWM Handbook)
- Bio-retention Basin
- Bio-retention Filter
- Constructed Stormwater Wetlands
- Extended Detention Basin
- Extended Detention Basin Enhanced
- Grassed Swale
- Infiltration Basin
- Infiltration Trench
- Manufactured Treatment Device (MTD) (8)
- Retention Basin I
- Retention Basin II
- Retention Basin III
- Sand Filter
- Vegetated Filter Strip
- Other Approved Types (List Type)
- Detention Basin

Table B: Alternative BMP Types
- Comprehensive SWM Plan (Regional) Facility
- Pollutant Loading Pro Rata Share Program
- Other Approved Options (List Type) (4)

Table C: Permanent BMP Types (BMP Clearing House)
- Sheet Flow to Vegetated Filter Strip
- Grass Channel
- Soil Compost Amendment
- Permeable Pavement (Level 1)
- Permeable Pavement (Level 2)
- Infiltration Practice (Level 1)
- Infiltration Practice (Level 2)
- Bioretention (Level 1)
- Bioretention (Level 2)
- Dry Swale (Level 1)
- Dry Swale (Level 2)
- Wet Swale (Level 1)
- Wet Swale (Level 2)
- Filtering Practice (Level 1)
- Filtering Practice (Level 2)
- Constructed Wetlands (Level 1)
- Constructed Wetlands (Level 2)
- Extended Detention Pond (Level 1)
- Extended Detention Pond (Level 2)
- Wet Pond (Level 1)
- Wet Pond (Level 2)
- Manufactured Treatment Device (MTD)(8)
- Other Approved Types (List Type)

NOTES:

(1) In decimal degrees to the nearest one ten-thousandth of a degree.

(2) For streams with no names, list "(Unnamed Tributary to downstream name)".

(3) Show acres treated to the nearest one hundreths acre.

(4) Include agreements with off-site BMP owners.

(5) Information pertains to the alternative BMP option location, where applicable. Exception - Not required for nutrient credit purchase option.

(6) Applies to the purchase of nutrient credits only.

(7) Virginia 6th Order HUC (VAHU6) Example - YO30.

(8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.

(9) List the name of any impaired water to which the BMP discharges. The determination of impaired water shall be based on those streams listed as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired by sediment, total suspended solids, turbidity, nitrogen or phosphorus.

(10) BMP Maintenance ID Number is to be assigned by the District Maintenance Division at permit termination or project completion. This ID number shall be assigned prior to the permit close out process and entered by the area construction engineer under this column, per IIM-LD-95

(11) Provide the section of each Maintenance manual that pertains to the type of BMP. Both manuals can be found at www.vdot.virginia.gov/business/manuals in the Maintenance selections. Example: Section 4 would be noted for both the maintenance and inspection manuals for a Bioretention I infiltration BMP.

(12) Nutrient credits purchased to the nearest one hundredth pound.

Revised 5/1/19

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IN(1)

EROSION AND SEDIMENT CONTROL

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

This project is located in Prince William County and approximately 1.8 acres will be disturbed by the proposed construction/maintenance activity. This project involves the construction of left turn in the existing raised median on Joplin Road approaching the Route 1 intersection. A mini -roundabout will be constructed at the intersection of Old Triangle Rd/Fuller Heights Rd. A connection will be constructed from the mini -roundabout to the P588 Fuller Road improvements constructed by others for Quantico.

EXISTING SITE CONDITIONS

The topography is gently sloping falling from the northern portion of the site to the southern portion of the site. Runoff from the project discharges to Little Creek which is a tributary to Quantico Creek near its confluence with the Potomac River. The project involves 5 outfalls, including one primary outfall to Little Creek at the intersection of Route 1 and Joplin Road/Fuller Road and 4 secondary outfalls to existing drainage systems and channels. The site is predominantly paved with small strips of grassed and wooded areas along the corridor.

ADJACENT PROPERTY

Adjacent to Route 1 on both sides single family homes, some town homes, and some businesses. Fuller Road continues east and is bounded by Quantico Military Base and the United States Marine Corp Heritage Center. To the west Route 1 continues southbound and northbound and is bounded by businesses on both sides. Joplin Road Starts west of Route 1 and continues west.

OFF-SITE AREAS

There are no anticipated Off-Site borrow areas and/or surplus material disposal areas associated with this project. Therefore off-site-borrow is not covered by this Erosion and Sediment Control Plan. In the event that the above statement is not valid the contractor shall submit a supplementary E&S plan to the owner covering the off-site borrow area which would have to be approved by the authority before any off-site activity commences.

SOILS

According to the Soil Survey of Prince William County, Virginia 1984), the soils in the project area are mainly consisting of Urban Land – Udorthents complex (54B). This designation describes areas where 85 percent or more of the surface layer is covered by asphalt, concrete or other impervious surfaces and areas of variable depth and slope which are well draining to moderately well drained soils. The Udorthents are areas where the existing soils have been altered by excavation or covered by fill. Also included are undisturbed soils and fill area containing material, such as concrete, wood and asphalt.

CRITICAL EROSION AREAS

No areas have been identified as critical areas for erosion.

EROSION AND SEDIMENT CONTROL MEASURES

Unless otherwise indicated, all vegetative and structural erosion and sediment control practices shall be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment control handbook (1992) and the VDOT Road and Bridge Specifications (2016).

PERMANENT STABILIZATION

Permanent stabilization shall be done in accordance with the VESCH and VDOT Road & Bridge Specifications (2016) and Contract Special Provision 510TF. All areas disturbed by construction shall be stabilized with permanent seeding immediately following finish grading. Seeding shall be done in accordance with these plans unless otherwise directed by the engineer.

STORMWATER MANAGEMENT

Calculation of runoff before and after development indicates that there will be a net increase in peak runoff as a result of the project. Nutrient credits will be purchased to address Water Quality requirement for the project. For Water Quantity, the project meets the 1% rule for the contribution to the overall watershed. A Stormwater Management Waiver has been submitted for the site.

STRUCTURAL PRACTICES

1. Safety Fence- 3.01
   A safety fence shall be installed around all temporary sediment traps in accordance with the VESCH.

2. Temporary Construction Entrance - 3.02
   Temporary construction entrances with wash racks shall be installed adjacent to the construction limits. During muddy conditions, drivers of construction vehicles will be required to wash their wheels before leaving the limits of construction. Any sediment tracked into the travel way shall be cleaned at the end of each day. In accordance with minimum standard #17. Water source for wash rack to be provided by fire hydrant. If no hydrant is available, water to be provided by private water truck.

3. Construction Road Stabilization - 3.03
   Temporary stabilization with stone of access roads, subdivision streets, parking areas and other traffic areas immediately after grading to reduce erosion caused by vehicles during wet weather, and to prevent having to regrade permanent roadbeds between initial grading and final stabilization.

4. Silt Fence Barrier - 3.05 Super Silt Fence Barrier
   Silt fence sediment barriers will be installed down slope of areas with minimal grades to filter sediment-laden runoff from the sheet flow, as indicated on the plans.

5. Storm Drain Inlet Protection - 3.07
   All storm sewer inlets shall be protected during construction. Sediment-laden water shall be filtered before entering the storm sewer inlets.

6. Culvert Inlet Protection - 3.08
   All culvert inlets shall be protected during construction. Sediment-laden water shall be filtered before entering the culvert inlets.

7. Temporary Diversion Dike - 3.09
   Diversion Dikes shall be installed below major graded areas to direct sediment-laden runoff into the sediment traps. Diversion Dikes shall be installed above major graded areas to divert clean water around the disturbed areas.

8. Temporary Diversion Channel - 3.12
   Temporary Diversion Channels shall be installed in the locations shown on the plan to divert the existing channels and allow for the construction of the culverts to be performed in the dry.

9. Temporary Sediment Trap - 3.13
   A temporary ponding area will be formed by constructing an earthen embankment with a stone weir outlet. The depth and configuration of the trap will be designed to meet minimum standards, and will be filled in Phase II when all storm sewer utilities are in place and functional. Specific details of the sediment traps are shown on the plan.

10. Rock Check Dams - 3.20
    Temporary stone dams shall be constructed across the drainage ditches to reduce the velocity of concentrated stormwater flows, thereby reducing erosion of the swale or ditch.

VEGETATIVE PRACTICES

1. Temporary Seeding - 3.31
   Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.

2. Permanent Seeding 3.32
   Permanent or temporary soil stabilization shall be applied on rough-graded areas that will not be brought to final grade for a year or more or where permanent, long-lived, vegetative cover is needed on fine-graded areas. Permanent seeding shall consist of perennial vegetative cover and shall be determined by the slopes, soil types, and maintenance requirements.

MANAGEMENT STRATEGIES

The first step in this single phase erosion and sediment control program is to install all perimeter controls. All perimeter controls will be in place prior to any excavation.
The phase one erosion control program shall:

1. Flag limits of clearing and grading and hold pre-construction meeting.
2. Install construction entrances with wash racks in the location shown on the plans. water for trash racks to be provided by private water truck in no hydrant is available
3. Provide minimum grading to allow phase one installation.
4. Install perimeter controls as shown to include diversion dikes and silt fence. These sediment trapping measures shall be installed as a first step in grading per the phase one erosion and sediment control plan and will be seeded and mulched immediately following installation.
5. Grading operations may commence once perimeter controls, diversions and trapping measures are installed to the satisfaction of the inspector.
6. Temporary seeding or other stabilization will follow immediately after grading.
7. Once all of phase on controls are in place, the Contractor is to contact the county inspector for sign-off. Once sign-off is obtained by the county, the Contractor can proceed with general clearing and earthworks activities.
8. Install proposed utilities.
9. Fine grade excavated areas.
10. Lime, fertilize and permanently seed and mulch all areas that will not receive impervious cover.
11. For vegetative stabilization of all denuded areas see erosion control measures and vegetative practices.
12. Once all areas are stabilized to the satisfaction of the county inspector the control shall remove perimeter controls.

MAINTENANCE STRATEGIES - SEDIMENT & EROSION CONTROL

1. It will be the responsibility of the Contractor to ensure that all downstream areas are protected against erosion and sedimentation. In doing so, He/She must coordinate with the county inspector throughout the duration of this project.
2. In general, all erosion and sediment control measures will be checked daily and after each significant rainfall. Refer to the attached erosion and sediment control standard notes for detailed maintenance and revegetation/stabilization requirements.
3. All new seeded mulch areas will be inspected after each rainfall event to ensure the new seed has not been washed away. If so, the areas shall be re-seeded and mulched immediately.
4. The Inspector has the authority to add or delete erosion and sediment controls as needed in the field, as site conditions warrant. The Contractor does have the authority to add additional sediment and erosion control measures she He/She feel that it is necessary to prevent the sediment or erosion of off-site areas. Additional measures should be authorized by the project manager.
5. All temporary erosion and sediment control measures shall be removed within 30days after final site stabilization. In accordance with minimum standard #18.

TWO PHASE EROSION & SEDIMENT CONTROL PLAN

Phase I controls shall be placed as indicated on the Erosion & Sediment plans-Phase I, prior to any land disturbing activities. Mud and debris will be washed from all construction vehicles and equipment before leaving the site. See land disturbing/construction sequence, this sheet.

Phase II work will not commence until Phase I work has been approved by the county inspector. Phase II includes the adjustment of silt fence perimeter controls, providing the cut and fill areas are near final grade and storm sewer is functional. The utilities, curb and gutter, and roads also should be near final grade. Base stone for the roads and parking areas should be completed within seven (7) days after reaching final grade for subgrade. Inlet protection shall be provided for all proposed and existing inlet storm structures. Additionally, any stock piles (location of which will be coordinated in the field with the site inspector) will be provided with perimeter silt fence. Topsoil, stockpiles and all areas to be rough graded during initial phase of construction shall be seeded with fast germinating temporary vegetation immediately following grading. Mixture of seed will depend on the time of year. 2:1 slope areas not adequately stabilized by seeding are to be sodded and pegged at the direction of the Inspector. After all construction operations have ended and all disturbed areas have been stabilized, mechanical sediment controls shall be removed and the ground permanently stabilized with vegetation upon the approval of the site Inspector. See land disturbing/construction sequence, this sheet.

The implementation of Phase II controls cannot begin until the Phase II controls have been approved by the Prince William County Inspector.

LAND DISTURBING/CONSTRUCTION SEQUENCE PHASE I

Sheets IG(1) Suggested Sequence for E&S Controls

A preconstruction meeting will be held on site with the Prince William County Environmental Engineering Inspector, contractor and Certified Responsible Land Disturber (CRLD). At least 48 hours notification to the County is required to set up this meeting. Prior to clearing and grubbing, all perimeter controls are to be installed as shown and as necessary. Construct temporary sediment trap at proposed location. The contractor shall install and maintain all necessary temporary pipes to provide adequate drainage throughout construction. Construct proposed drainage outfalls and channel relocations or improvements as shown on the plans. All ditches constructed during Phase I, Check Dams shall be installed at the time ditches are constructed. Obtain County Site Inspector's approval of perimeter controls.

LAND DISTURBING/CONSTRUCTION SEQUENCE PHASE II

Sheets IH(1) Suggested Sequence for E&S Controls

After the County Site Inspector's approval of Phase I E&S controls, clear and grub remainder of the site as necessary. Construct the proposed drainage system as shown and as necessary. Install inlet protection as shown and as needed. All silt fence is to be installed as shown and as necessary, drop inlet silt traps shall be installed as shown and as needed, rock check dams shown shall be installed at the same time the ditch is constructed. All ditches shall be constructed and stabilized according to the plans, once stabilization has been completed direct flow to the ditches and remove temporary diversion dikes. Install all curb & gutter and place base stone pavement except where this would interfere with the temporary sediment traps. Fine grade site and install all landscaping, including permanent seeding and fertilizing as shown in the plan. Install base course asphalt paving and final paving. Clean site of all trash and debris. Have the County Inspector inspect all areas to determine if they are adequately stabilized.

CHECKLIST
FOR EROSION AND SEDIMENT CONTROL PLANS

X	Minimum Standards - All applicable Minimum Standards must be addressed.
Narrative	
1N(1)	Project description - briefly describes the nature and purpose of the land- disturbing activity, and the area (acres) to be disturbed.
1N(1)	Existing site conditions - a description of the existing topography, vegetation and drainage.
1N(1)	Adjacent areas - A description of neighboring areas such as streams, lakes, residential areas, road, etc., which might be affected by the land disturbance.
1N(1)	Off-site areas - Describe any off-site land-disturbing activities that will occur(including borrow sites, waste or surplus areas, etc.). Will any other areas be disturbed?
1N(1)	Soils - a brief description to the soils on the site giving such information as soil name, mapping unit, erodibility, permeability, depth, texture and soil structure.
1N(1)	Critical areas - A description of areas on the site which have potentially serious erosion problems (e.g., steep slopes, channels, wet weather/underground springs, etc.).
1N(1)	Erosion and sediment control measures - A description of the methods which will be used to control erosion and sedimentation on the site. (Controls should meet the specifications in Chapter 3.)
1N(1)	Permanent stabilization - A brief description, including specifications, of how the site will be stabilized after construction is completed.
1N(1) & Drainage Report	Stormwater runoff considerations - Will the development site cause an increase in peak runoff rates? Will the increase in run off cause flooding or channel degradation down stream? Describe the strategy to control stormwater runoff.
SITE PLAN	
1A	Vicinity map - A small map locating the site in relation to the surrounding area. Include any landmarks which might assist in locating the site.
X	Indicate north - The direction of north in relation to the site.
1Q(1)-1P(5)	Limits of clearing and grading - Areas which are to be cleared and graded.
1Q(1)-1P(5)	Existing contours - the existing contours of the site.
1P(1)-1P(5)	Final contours - Changes to the existing contours, including final drainage patterns.
1Q(1)-1P(5)	Existing vegetation - The existing tree lines, grassed areas, or unique vegetation.
1N(1)	Soils - The boundaries of different soil types.
Drainage Report	Existing drainage patterns - The dividing lines and the direction of flow for the different drainage areas. Include the size (acreage) of each drainage area.
N/A	Critical erosion areas - Areas with potentially serous erosion problems. (See Chapter 6 for criteria.)
1Q(1)-1P(5)	Site Development - Show all improvements such as buildings, parking lots, access roads, utility construction, etc.
1Q(1)-1P(5)	Location of practices - The locations of erosions and sediment controls and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of the handbook.
1Q(1)-1P(5)	Off-site areas - Identify any off-site land-disturbing activities (e.g., borrow sites, waste areas, etc.). Show locations of erosion controls. (Is there sufficient information to assure adequate protection and stabilization?)
1N(2)	Detail drawings - Any structural practices used that are not referenced to the E&S hand book or local handbooks should be explained and illustrated with detail drawings.
1N(1)	Maintenance - A schedule of regular inspections and repair of erosion and sediment control structures should be set forth.

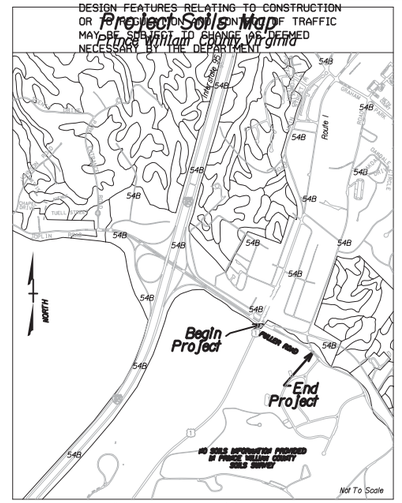
TABLE 3.31B
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS
"QUICK REFERENCE FOR ALL REGIONS"

Planting Dates	Species	Rate lbs./acre
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lolium multi-florum) & Cereal 9 Winter Rye (Secale cereale)	50 - 100
Feb. 16 - Apr. 30	Annual Ryegrass (Lolium multi-florum)	60 - 100
May 1 - Aug. 31	German Millet (Setaria italica)	50

Source: Va. DSWC

DESIGN FEATURES RELATING TO CONSTRUCTION OR MAINTENANCE OPERATIONS OF TRAFFIC MAY BE SERVICE TOP COPIES OF THESE AS NECESSARY BY THE DEPARTMENT.

Project Soils Map
Prince William County, Virginia



Not To Scale

TABLE 3.32D
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

	Total Lbs. Per Acre
Minimum Care Lawn	
- Commercial or Residential	175-200 lbs.
-Kentucky 31 or Turf-Type Tall Fescue	95-100%
- Improved Perennial Ryegrass	0-5%
- Kentucky Bluegrass	0-5%
High-Maintenance Lawn	200-250 lbs.
-Kentucky 31 or Turf-Type Tall Fescue	100%
General Slope (3:1 or Less)	
-Kentucky 31 Fescue	128 lbs.
-Red Top Grass	2 lbs.
-Seasonal Nurse Crop*	20 lbs.
	150 lbs.
Low Maintenance Slope (Steeper than 3:1)	
-Kentucky 31 Fescue	108 lbs.
-Red Top Grass	2 lbs.
-Seasonal Nurse Crop *	20 lbs.
-Crownvetch **	20 lbs.
	150 lbs.

* Use seasonal nurse crop in accordance with seeding dates as stated below:
February 16th through April ..... Annual Rye
May 1st through August 15th ..... Foxtail Millet
August 16th through October ..... Annual Rye
November through February 15th ..... Winter Rye

** Substitute Sericea lespedeza for Crownvetch east of Farmville, Va. (May through September use hulled Sericea, all other periods, use unhulled Sericea). If Flatpea is used in lieu of Crownvetch, increase rate to 30lbs./acre. all legume seed must be properly inoculated. Weeping Lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods: add 10-20 lbs./acre in mixes.

Source: Va. DSWC

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IN(1)

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

EROSION AND SEDIMENT CONTROL NOTES

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IN(2)

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

4VAC50-30-40 MINIMUM STANDARDS.(MS-19)

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOILS STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP SLOPE LAND DISTURBANCE TAKES PLACE.

5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.

   a. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
   b. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A TWENTY-FIVE YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.

7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NON ERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NON ERODIBLE COVER MATERIALS.

13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NON ERODIBLE MATERIAL SHALL BE PROVIDED.

14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

   a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
   b. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCHES.
   c. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
   d. MATERIAL USED FOR BACK FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
   e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
   f. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASE IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:

   a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
   b. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
      (1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR
      (2)
         (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED AND BANKS; AND
         (b) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND
         (c) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

   c. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:

      (1) IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR
      (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES; OR
      (3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR
      (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN-APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.

   d. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
   e. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.
   f. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
   g. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATERS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
   h. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
   i. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.
   j. IN APPLYING THESE STORMWATER RUNOFF CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL, OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
   k. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.

PRINCE WILLIAM COUNTY EROSION & SEDIMENT CONTROL STANDARD NOTES:

1. THE OWNER/DEVELOPER MUST NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT 792-7070 AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH APPLICABLE COUNTY ORDINANCES AND POLICIES.

2. THE OWNER/DEVELOPER GRANTS THE RIGHT-OF-ENTRY ON TO THIS PROPERTY TO THE DESIGNATED PRINCE WILLIAM COUNTY PERSONNEL FOR THE PURPOSE OF INSPECTING AND MONITORING FOR COMPLIANCE WITH TITLE 10.01, CHAPTER 5, ARTICLE 4 OF THE CODE OF VIRGINIA, EROSION AND SEDIMENT CONTROL LAW AND THE DESIGN AND CONSTRUCTION STANDARDS MANUAL SECTION 750.04 (C).

3. ALL EROSION CONTROL MEASURES SHOWN ON THE APPROVED PLAN MUST BE IN PLACE AND INSPECTED AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO CLEARING, STRIPPING OF TOPSOIL OR GRADING.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE KEPT ON THE SITE AT ALL TIMES.

5. THE DEVELOPER/DEVELOPER'S REPRESENTATIVE IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY PRINCE WILLIAM COUNTY.

6. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL COMPLETE AND ADEQUATE STABILIZATION IS ACHIEVED.

7. WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE DURING DEWATERING OPERATIONS.

8. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS AND TO THE PRINCE WILLIAM COUNTY DESIGN AND CONSTRUCTION STANDARDS MANUAL.

9. THE DEVELOPER/DEVELOPER'S REPRESENTATIVE WILL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AT ALL TIMES.

   THE DEVELOPER/DEVELOPER'S REPRESENTATIVE SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

   A. SEDIMENT BASINS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT ELEVATION INDICATED ON THE RISER PIPE. SEDIMENT SHALL BE DISPOSED IN SUITABLE AREAS AND IN SUCH A MANNER THAT WILL NOT ERODE OR CAUSE SEDIMENTATION PROBLEMS. THE BASIN EMBANKMENT SHOULD BE CHECKED REGULARLY TO ENSURE THAT IT STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. EMERGENCY SPILLWAYS SHOULD BE CHECKED REGULARLY TO ENSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION RESISTANT.

   B. SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.

   C. GRAVEL OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.

   D. SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

   E. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.

   F STREAM DIVERSION AND STORM CONVEYANCE CHANNELS SHALL BE INSPECTED DAILY AND AFTER EACH RAIN TO ENSURE THEY'RE FUNCTIONING PROPERLY AND THAT THE INTEGRITY OF THE LININGS ARE NOT IMPAIRED. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVISES MUST BE MADE IMMEDIATELY AFTER THE INSPECTION.

10. SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.

11. PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS. SEEDING AND SELECTION OF THE SEED MIXTURE SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK STANDARD AND SPECIFICATION 3.32. ROADS AND PARKING AREAS SHALL BE STABILIZED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED.

12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED WITHIN 30 DAYS AFTER ADEQUATE SITE STABILIZATION AND AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS AUTHORIZED BY THE PRINCE WILLIAM COUNTY INSPECTORS. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES WILL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION

13. WHEN SEDIMENT IS TRANSPORTED ONTO A PAVED ROAD SURFACE, THE ROAD WILL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT WILL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

14. AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.

15. RPA AND FLOODPLAIN LIMITS SHALL BE CLEARLY MARKED IN THE FIELD BY FLAGS, SIGNS, ETC.

16. TREE SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY ORANGE SAFETY FENCE.

17. ORANGE SAFETY FENCE MUST BE INSTALLED AROUND ALL SILT TRAPS AND SEDIMENT BASINS.

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	IN(2)

P.A.C. PLANS

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JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER *Gladis Arboleda,PWC DOT (703)792-5276*
SURVEYED BY, DATE *JMT (804) 323-9900*
DESIGN BY *JMT (804) 323-9900*
SUBSURFACE UTILITY BY, DATE *JMT (804) 323-9900*

EROSION & SEDIMENT CONTROL PLAN
PHASE 1

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	10(1)

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

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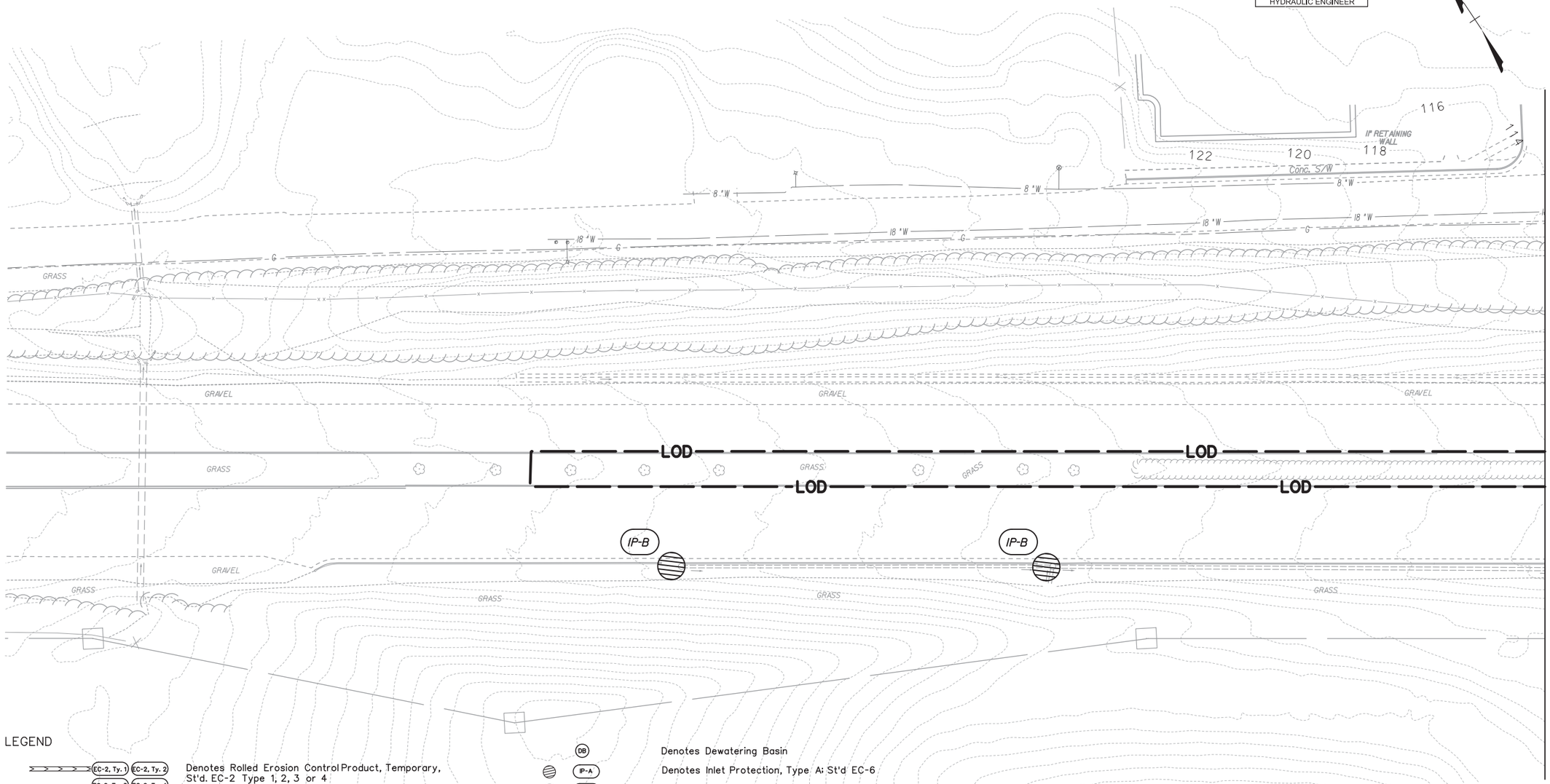
Richmond, Virginia
HYDRAULIC ENGINEER



LEGEND

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DB	Denotes Dewatering Basin
IP-A	Denotes Inlet Protection, Type A; St'd EC-6
IP-B	Denotes Inlet Protection, Type B; St'd EC-6
CE	Denotes Construction Entrance w/ Wash Rack
TS	Denotes Temporary Seeding
LOD	Denotes Limits of Disturbance
	Denotes Drainage Area Divide
OSF	Denotes Orange Safety Fence

SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	10(1)

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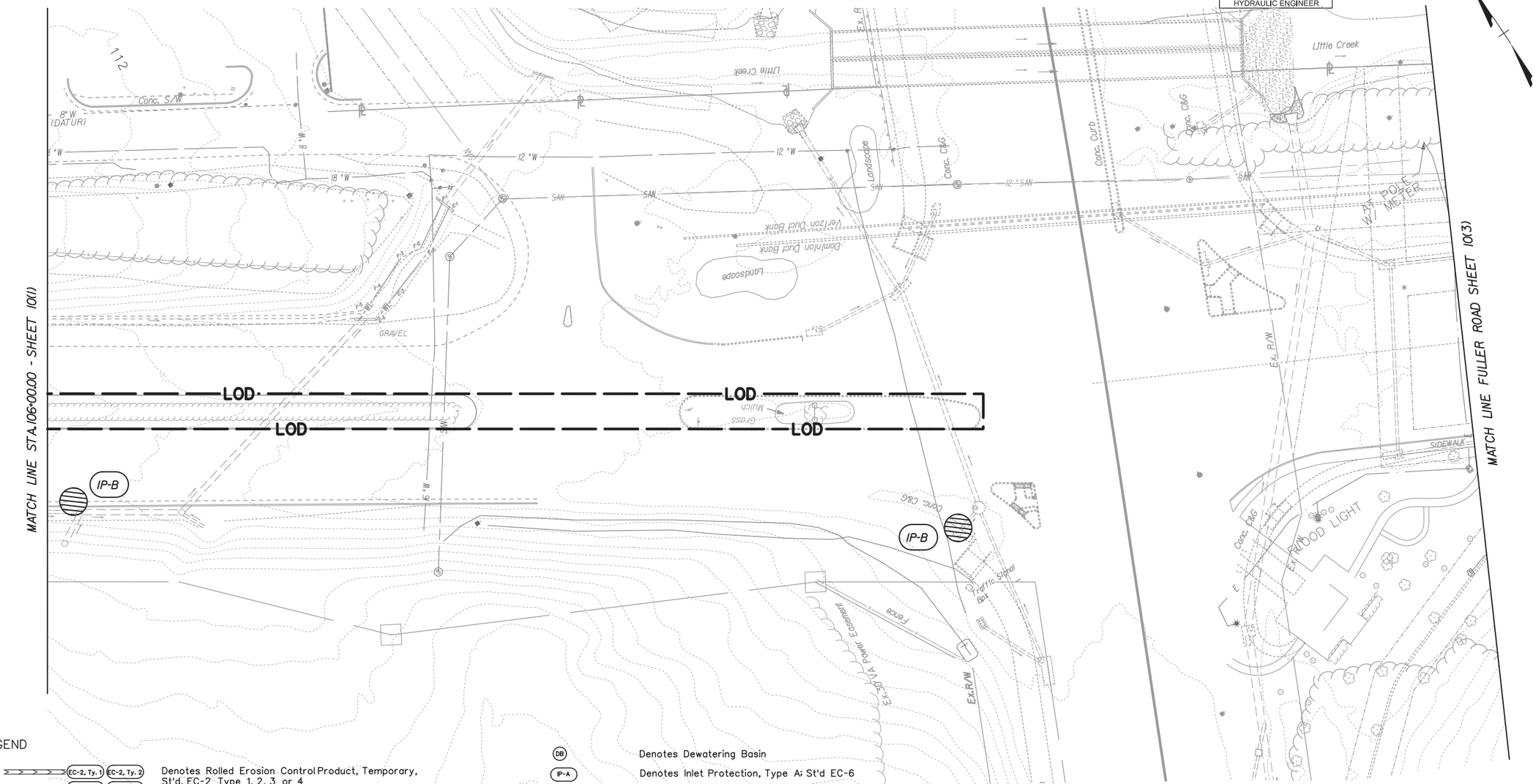

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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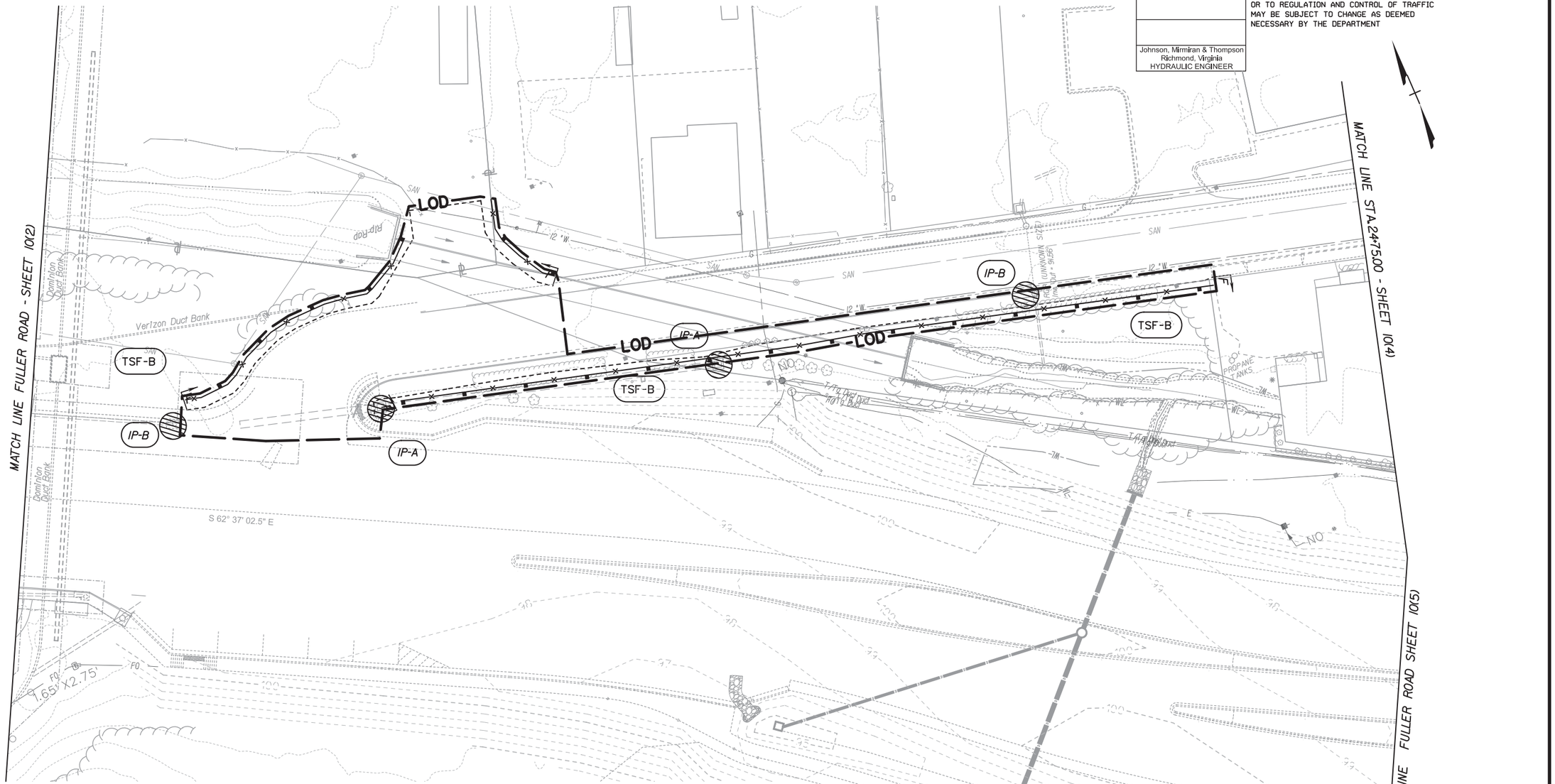

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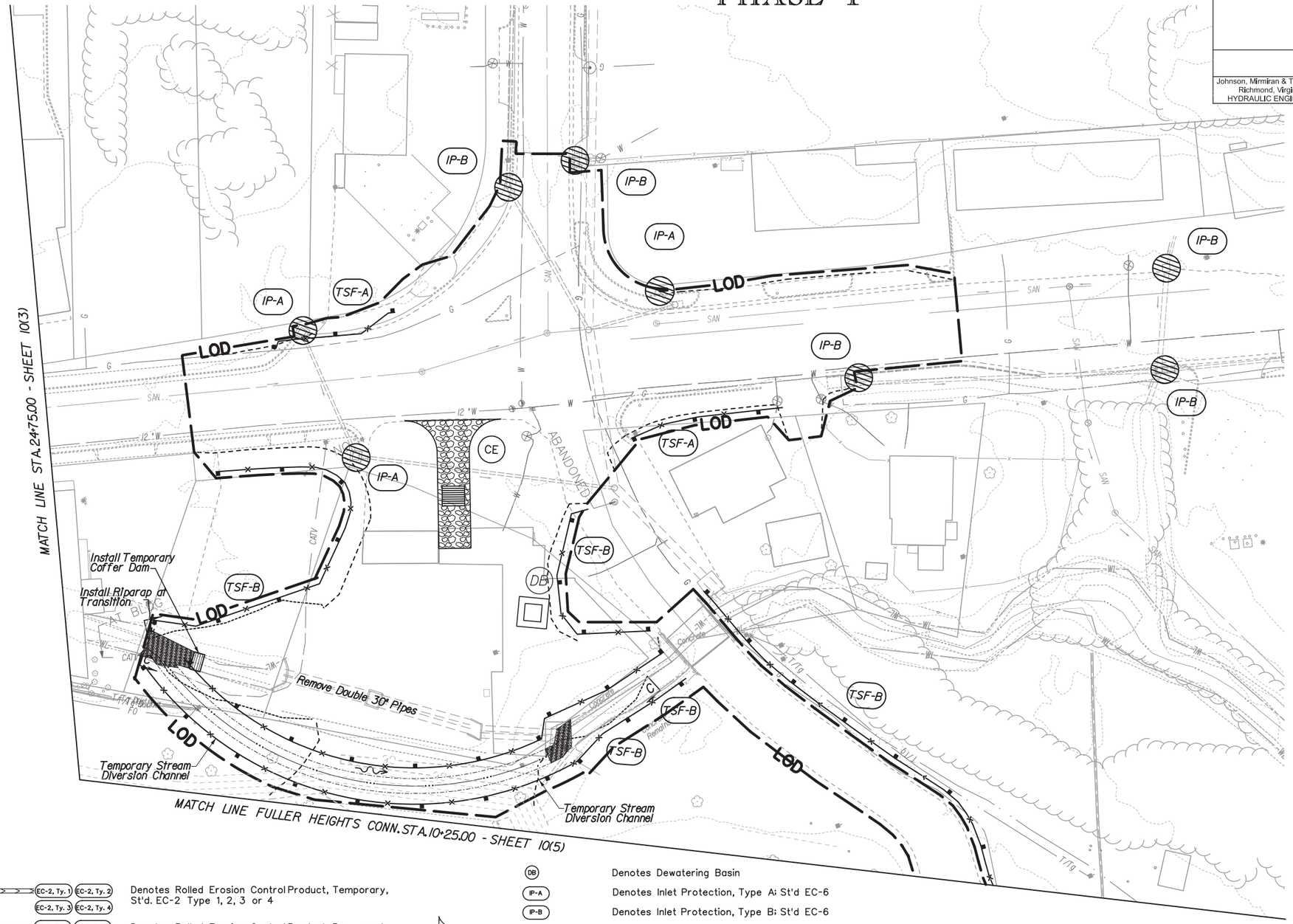

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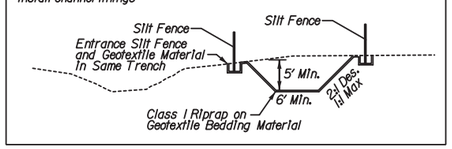
Temporary Stream Relocation (VDOT St'd.EC-12)

Construction
- *Install silt fence for construction area*
- *Excavate stream channel*
- *Install Coffer Dams at Inlet and outlet ends*
- *Install channel lining*



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0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	10(4)

P.A.C. PLANS

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Plotted By: CRONIN

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER *Gladis Arboleda,PWC DOT (703)792-5276*
SURVEYED BY, DATE *JMT (804) 323-9900*
DESIGN BY *JMT (804)323-9900*
SUBSURFACE UTILITY BY, DATE *JMT (804) 323-9900*

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	I0(5)

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

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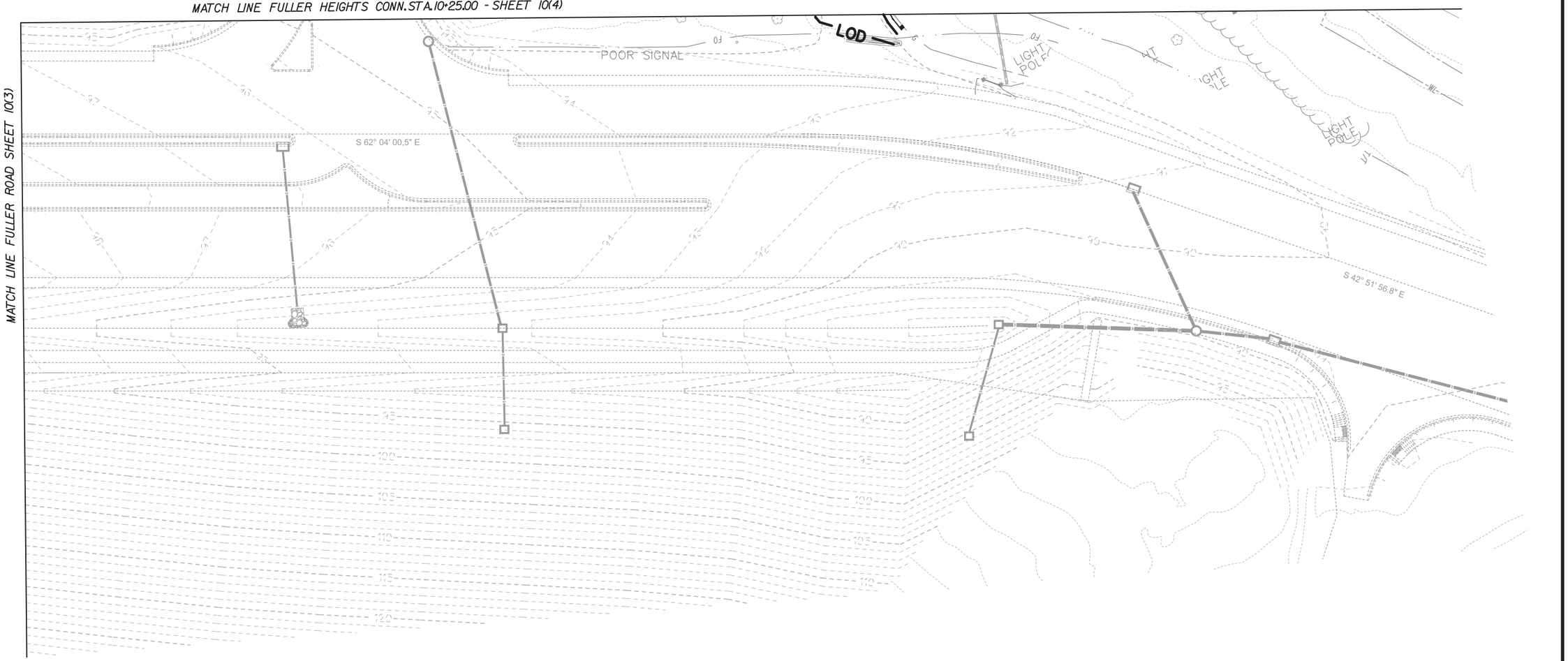
Richmond, Virginia
HYDRAULIC ENGINEER



SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	I0(5)

P.A.C. PLANS

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EROSION & SEDIMENT CONTROL PLAN
PHASE 2

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IP(1)

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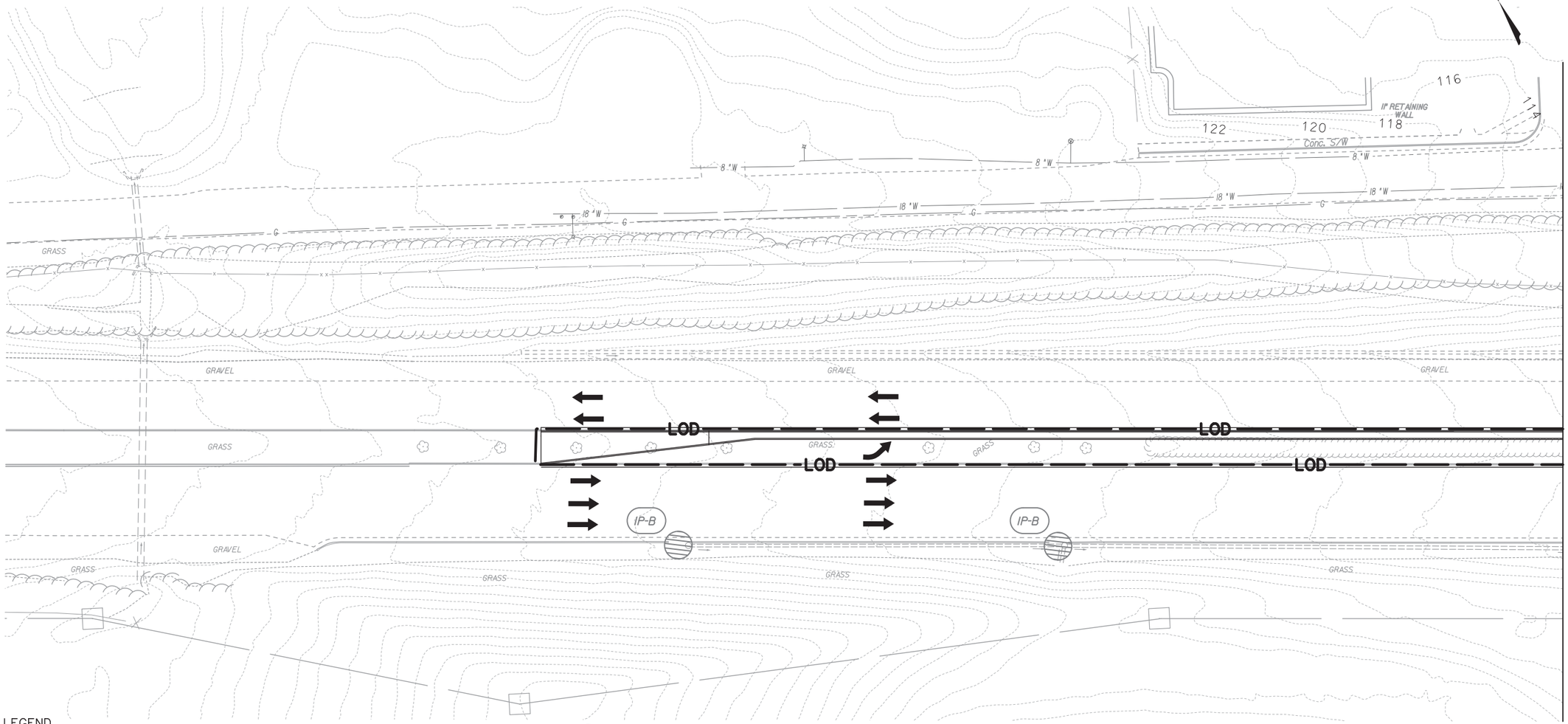

LEGEND

EC-2, Ty. 1 / EC-2, Ty. 2 / EC-2, Ty. 3 / EC-2, Ty. 4	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1, 2, 3 or 4
EC-3, Ty. 1 / EC-3, Ty. 2 / EC-3, Ty. 3	Denotes Rolled Erosion Control Product, Permanent, St'd. EC-3 Type 1, 2 or 3
TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
TDC	Denotes Temporary Diversion Channel, St'd EC-12
DD	Denotes Temporary Diversion Dike, St'd EC-9
RCD-1	Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II: St'd EC-4
DB	Denotes Dewatering Basin
IP-A	Denotes Inlet Protection, Type A: St'd EC-6
IP-B	Denotes Inlet Protection, Type B: St'd EC-6
CE	Denotes Construction Entrance w/ Wash Rack
TS	Denotes Temporary Seeding
LOD	Denotes Limits of Disturbance
	Denotes Drainage Area Divide
OSF	Denotes Orange Safety Fence

SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	IP(1)

P.A.C. PLANS

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EROSION & SEDIMENT CONTROL PLAN
PHASE 2

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IP(2)

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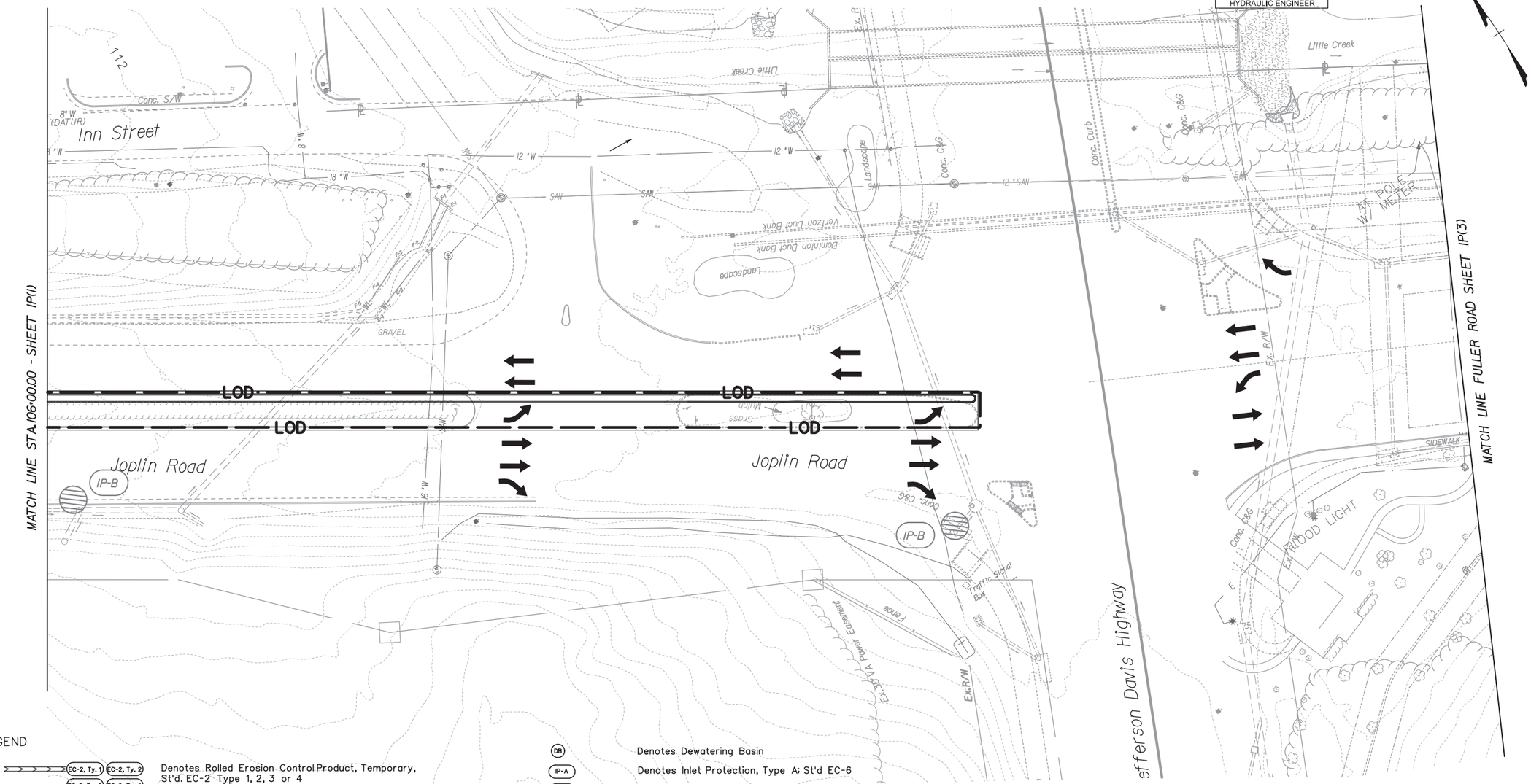

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DD	Denotes Temporary Diversion Dike, St'd EC-9
RCD-1	Denotes Rock Check Dam, Type I: St'd EC-4
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P.A.C. PLANS

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EROSION & SEDIMENT CONTROL PLAN
PHASE 2

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	IP(3)

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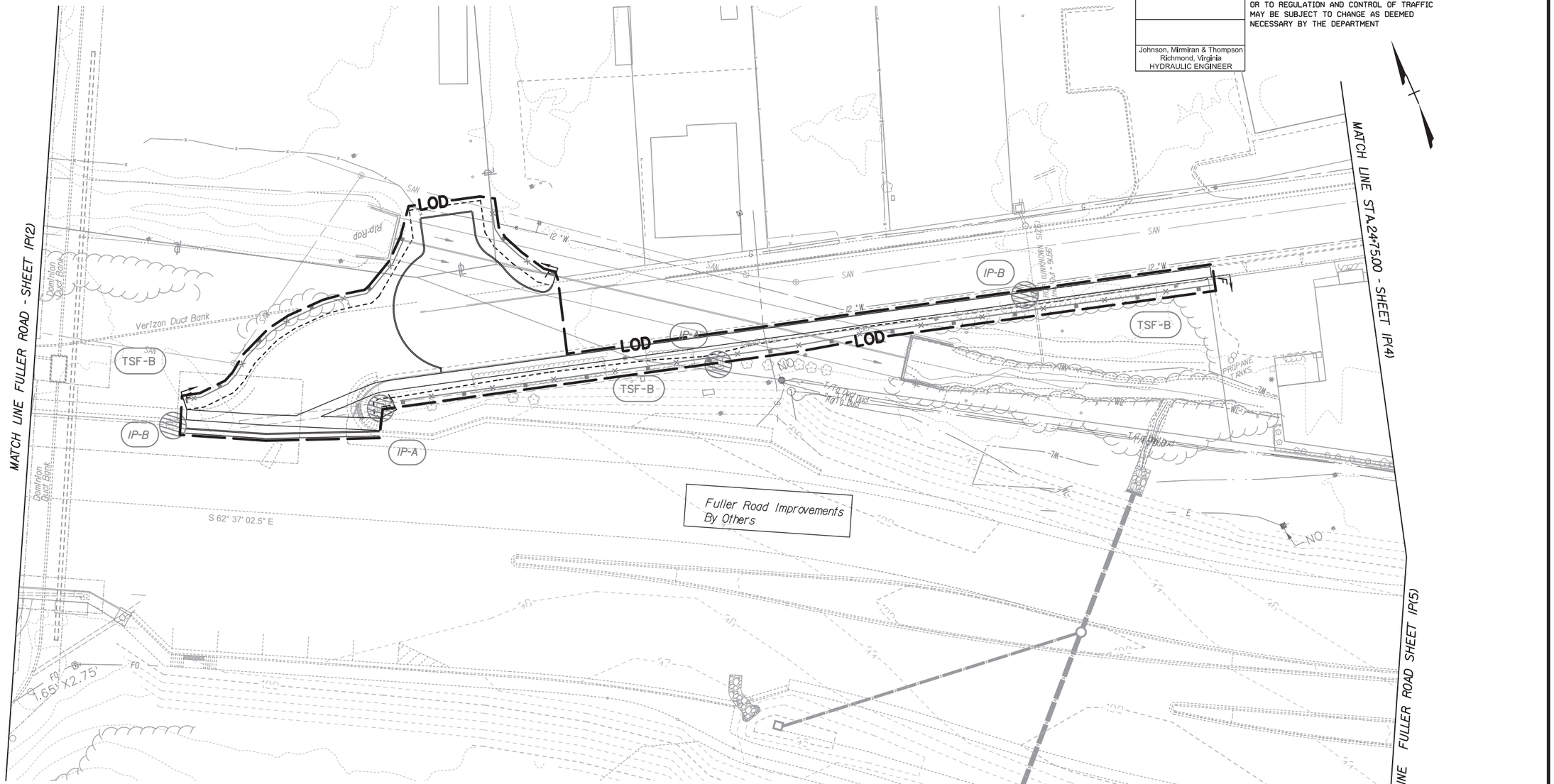

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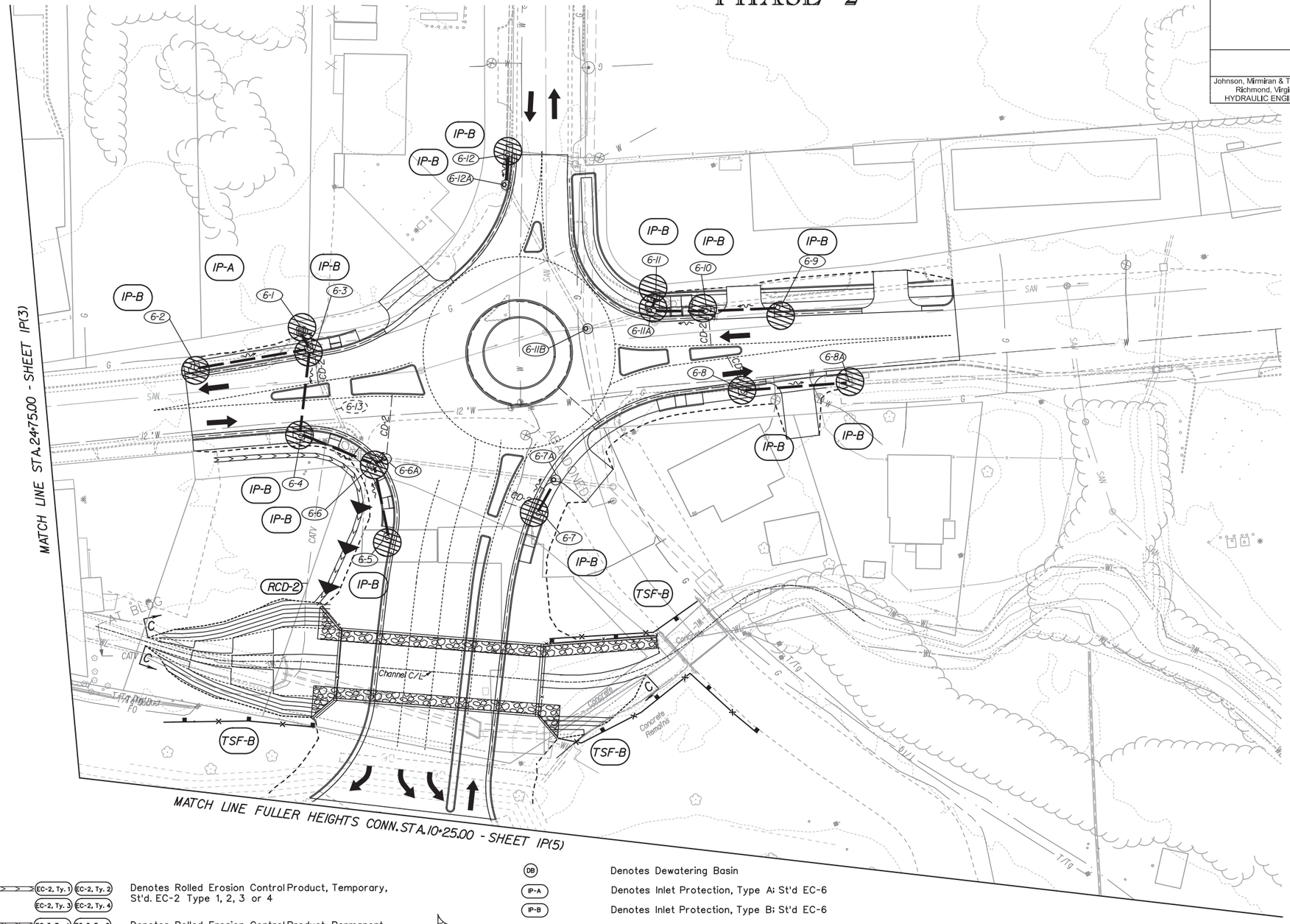
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

EROSION & SEDIMENT CONTROL PLAN
PHASE 2



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RCD-2	Denotes Rock Check Dam, Type II; St'd EC-4
DB	Denotes Dewatering Basin
IP-A	Denotes Inlet Protection, Type A; St'd EC-6
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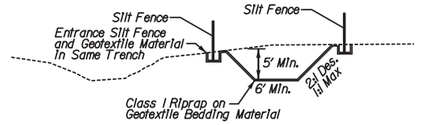
Temporary Stream Relocation (VDOT St'd. EC-12)

Construction
- Install diversion berm and silt fence for construction area
- Excavate stream channel
- Install Coffer Dams at Inlet and outlet ends
- Install channel linings



SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	IP(4)

P.A.C. PLANS

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EROSION & SEDIMENT CONTROL PLAN
PHASE 2

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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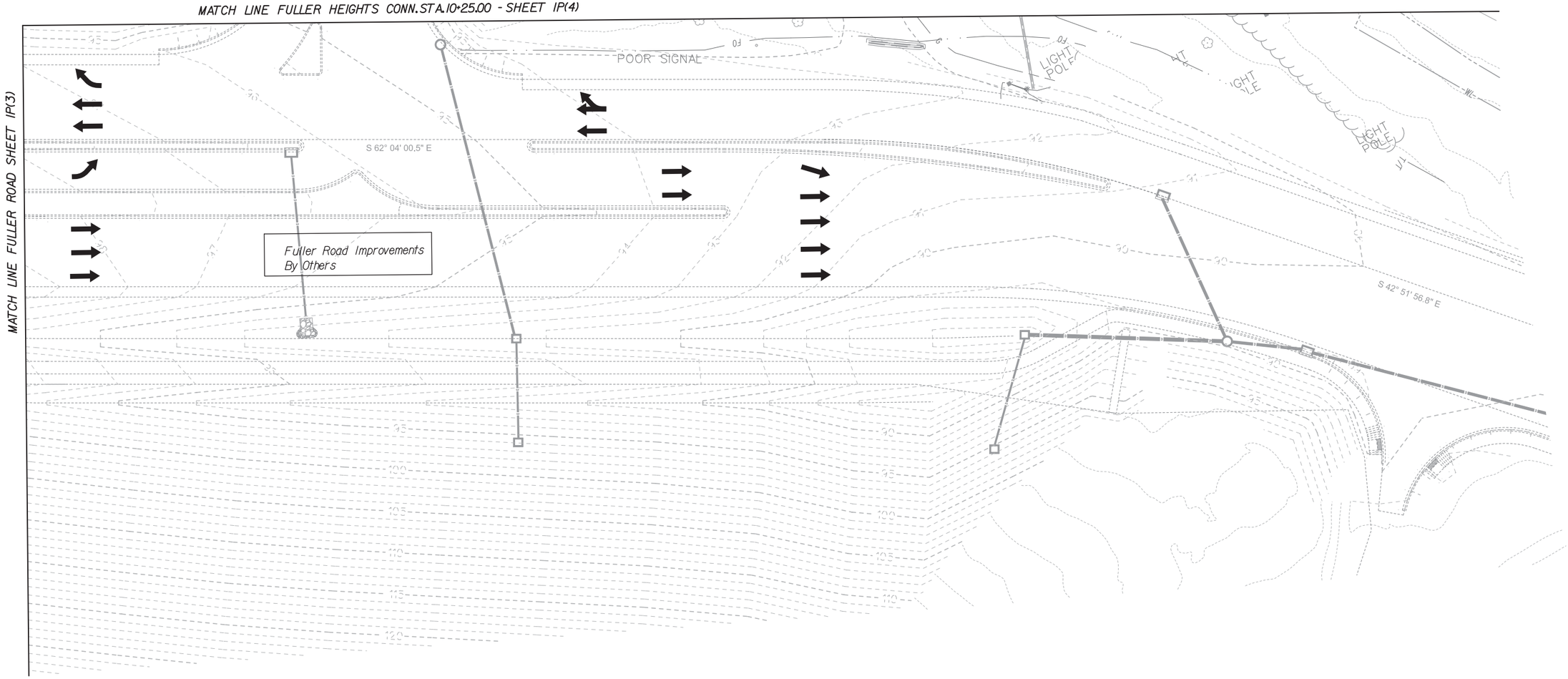
Richmond, Virginia
HYDRAULIC ENGINEER

MATCH LINE FULLER HEIGHTS CONN.STA.10+25.00 - SHEET IP(4)

MATCH LINE FULLER ROAD SHEET IP(3)



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GENERAL NOTES

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
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GRADING

G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

G-2 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.

G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: Existing concrete retaining walls, curbing, approaches to exisitng bridge on Old Triangle Rd.

G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than one foot, or the limits of such excavation, such change is to be made at the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.

G-6 The borrow material for this project shall be a minimum CBR___5____ or as approved by the Materials Engineer.

DRAINAGE

D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.

D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.

D-6 Pipes shall conform to any of the allowable types shown on sheet number 8(1), within the applicable height of cover limitations.
For strength, sheet thickness, or class designation; available sizes; height of cover limitations;and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standards PC-1.

D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.

D-9 A pipe joint length different from that stated on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. Extra payment for this adjustment will not be allowed. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.

D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.

D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard PP-1. Basis of Payment will be C.Y. of Flowable Backfill.

D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.

D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT Road and Bridge Standards.

D-16 When CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.

PAVEMENT

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS

I-4 All trees located within the Clear Zone or within a minimum of 30 feet of the edge of pavement, within the limits of the right of way or construction easement, unless otherwise noted on plans or directed by the Engineer, shall be removed, as provided for a Section 301 of the applicable VDOT Road and Bridge Specifications.

I-7 Where Standard slope roundoffs would damage trees, bushes or other desirable vegetation, they shall be omitted when so ordered by the Engineer.

I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.

I-10 St'd. RM-1 Right of Way monuments shall be set by the Contractor.

I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.

I-17 For method of constructing Straight-Line Taper Lanes in curb and/or curb and gutter sections, see typical details on Sheet 2A(1).

I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/ traffic control plans, pavement marking plan sheets 10(1) thru 10(8) and as directed by the Engineer.

I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, Microstation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

I-19 The following outside sources, under contract with VDOT, have provided information on this project.

Hydraulic Design	JMT
Roadway Design	JMT
Utility Design	JMT
Utility Designation	JMT
Utility Location	JMT
Survey	JMT
Bridge Design	JMT
Traffic Design	T3
Landscape Design	N/A

If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The Microstation files will only match the scanned files if all required levels are turned on. A Microstation Software license is required to be able to read these files.

EROSION AND SEDIMENT CONTROL (ESC)

E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3 The following symbols are used to depict Erosion Control items in the plan assembly:

EC-2, Ty. 1 / EC-2, Ty. 2 / EC-2, Ty. 3 / EC-2, Ty. 4	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1, 2, 3 or 4
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TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
TDC	Denotes Temporary Diversion Channel, St'd EC-12
DD	Denotes Temporary Diversion Dike, St'd EC-9
TC-I	Denotes Turbidity Curtain, Type - Impervious
TC-P	Denotes Turbidity Curtain, Type - Pervious
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
TSI	Denotes Slope Interrupter; St'd EC-15

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	2

P.A.C. PLANS

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TYPICAL SECTIONS

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	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	2A(1)

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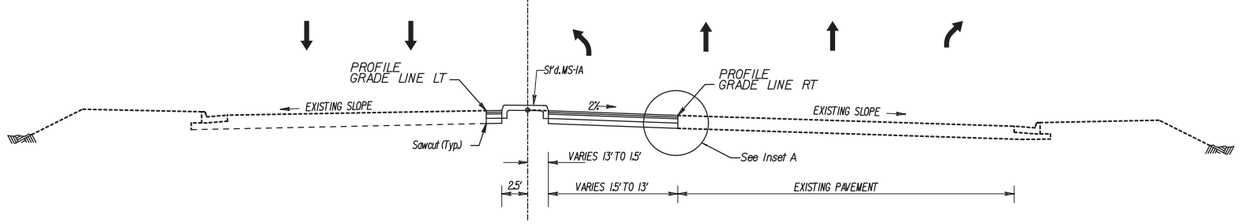
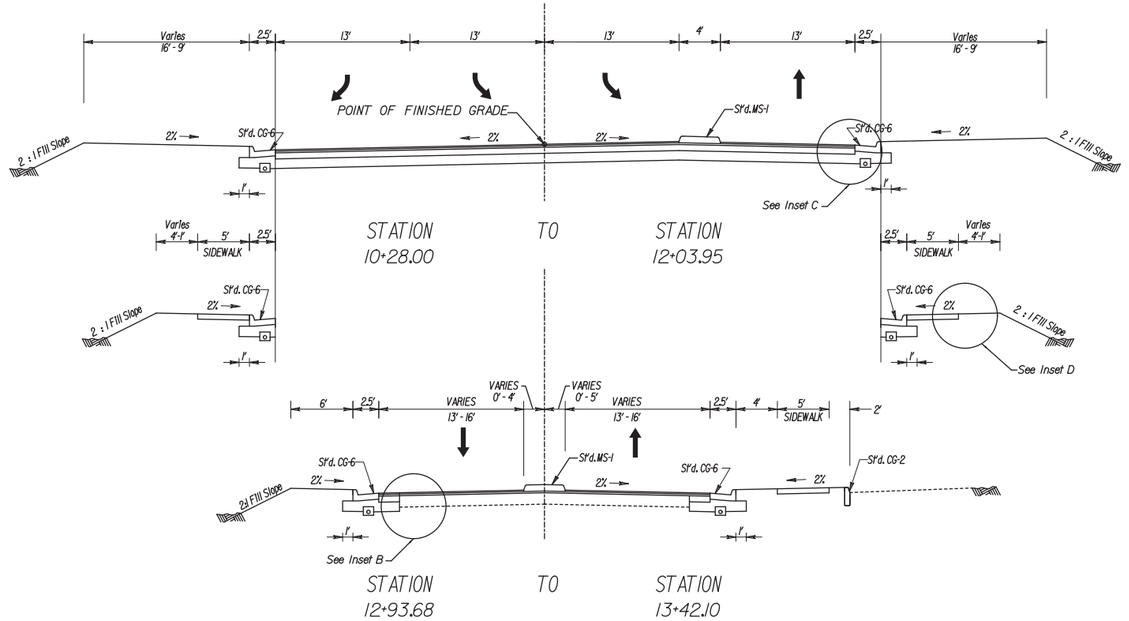
JOPLIN RD.
Const. ℄



STATION 101+22.00 TO STATION 110+40.00

FULLER HEIGHTS CONNECTION
Const. ℄



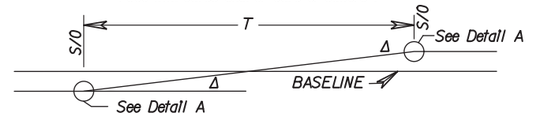
STATION 10+28.00 TO STATION 12+03.95

STATION 12+93.68 TO STATION 13+42.10

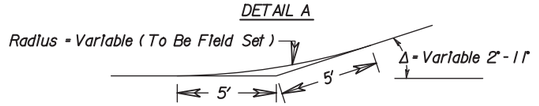
PAVEMENT LEGEND

1. 2.0 Inch Depth Asphalt Concrete,Type- SM-9.5A (Est.Placement Density: 180 LBS./S.Y.)
2. 2.0 Inch Depth Asphalt Concrete,Type- IM-19.0A (Est.Placement Density: 240 LBS./S.Y.)
3. 2.5 Inch Depth Asphalt Concrete,Type- IM-19.0A (Est.Placement Density: 300 LBS./S.Y.)
4. 5.5 Inch Depth Asphalt Concrete Base Course Type BM-25.0A
5. 5.0 Inch Depth Asphalt Concrete Base Course Type BM-25.0A
6. 6.0 Inch Depth Aggregate Base Material Type I,No.21B connected to a standard UD-4 edgedrain,located beneath the curb and gutter.The aggregate material should be extended 1 foot behind the curb and gutter per detail.
7. 4 Inch Depth Hydraulic Cement Concrete Sidewalk, Concrete Cl. A3
8. 6.0 Inch Depth Aggregate Base Material Type I,No.21B
9. Existing pavement is to be Saw Cut to the full depth of asphalt per St'd WP-2.
10. Existing pavement to be resurfaced. For Buildup see detail Sheet 2A(1)
11. 12" Continuously Reinforced Concrete Pavement

TYPICAL STRAIGHT - LINE TAPER LANE
(Use with Curbs and/or Curb & Gutters)



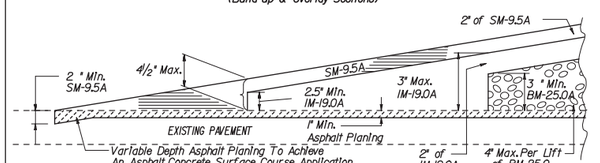
DETAIL A



T - See plans for Length of T.

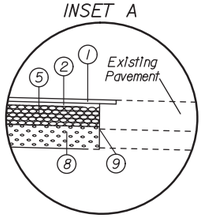
S/O - See plans for Stations and Offsets.

BUILD-UP DETAIL FOR RESURFACING EXISTING PAVEMENT
(Build-up & Overlay Sections)



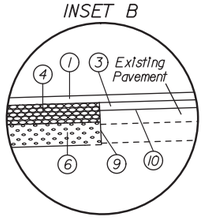
NOT TO SCALE
(See Plans For Required Pavement Planing Locations)

INSET A



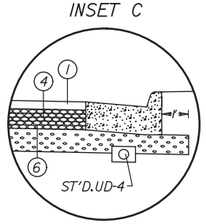
NOT TO SCALE

INSET B



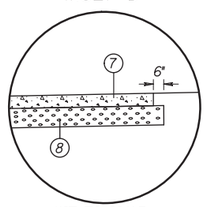
NOT TO SCALE

INSET C



NOT TO SCALE

INSET D



NOT TO SCALE

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	2A(1)

P.A.C. PLANS

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Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

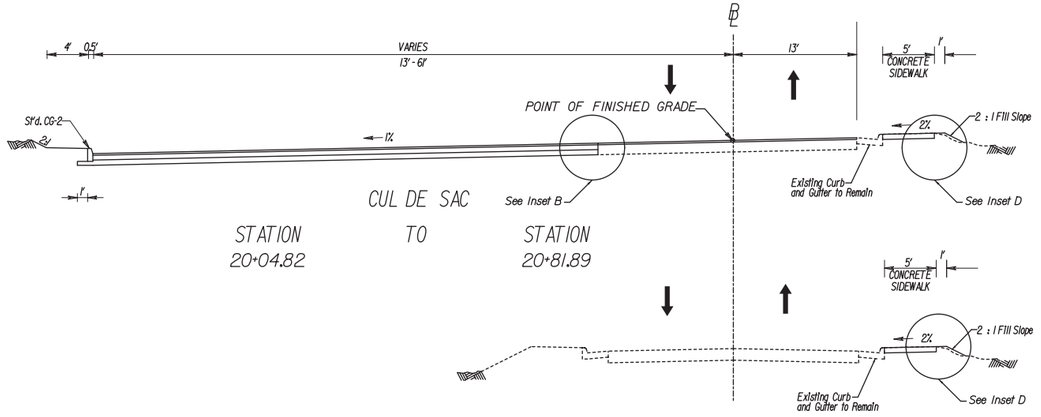
TYPICAL SECTIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	2A(2)

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

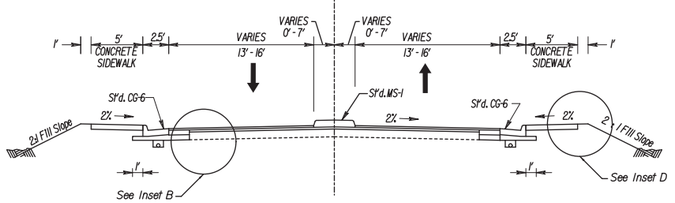
FULLER HEIGHTS ROAD

Const. ℄

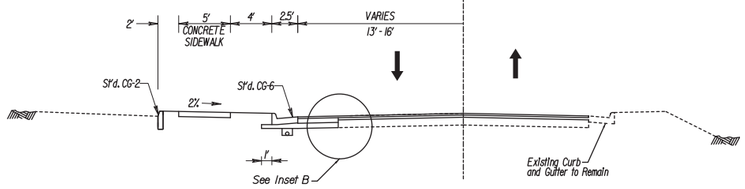


STATION 20+04.82 TO STATION 20+81.89

STATION 20+81.89 TO STATION 24+00.00



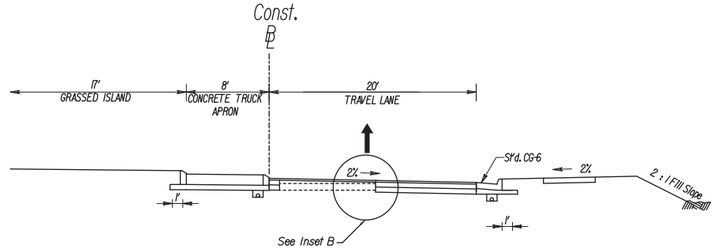
STATION 25+41.57 TO STATION 28+50



STATION 28+50 TO STATION 29+03.35

ROUNDABOUT

Const. ℄



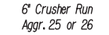
STATION 50+00.00 TO STATION 51+57.00

PAVEMENT LEGEND

1. 2.0 Inch Depth Asphalt Concrete, Type- SM-9.5A (Est. Placement Density: 180 LBS./S.Y.)
2. 2.0 Inch Depth Asphalt Concrete, Type- IM-19.0A (Est. Placement Density: 240 LBS./S.Y.)
3. 2.5 Inch Depth Asphalt Concrete, Type- IM-19.0A (Est. Placement Density: 300 LBS./S.Y.)
4. 5.5 Inch Depth Asphalt Concrete Base Course Type BM-25.0A
5. 5.0 Inch Depth Asphalt Concrete Base Course Type BM-25.0A
6. 6.0 Inch Depth Aggregate Base Material Type I, No. 21B connected to a standard UD-4 edgedrain, located beneath the curb and gutter. The aggregate material should be extended 1 foot behind the curb and gutter per detail.
7. 4 Inch Depth Hydraulic Cement Concrete Sidewalk, Concrete Cl. A3
8. 6.0 Inch Depth Aggregate Base Material Type I, No. 21B
9. Existing pavement is to be Saw Cut to the full depth of asphalt per St'd WP-2.
10. Existing pavement to be resurfaced. For Buildup see detail Sheet 2A(1)
11. 12" Continuously Reinforced Concrete Pavement

PRIVATE AND COMMERCIAL ENTRANCES

TYPE I
Crusher Run Aggr.



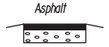
6" Crusher Run Aggr. 25 or 26

TYPE II
Concrete

Concrete Entrance Pavement 7" HES
4" Aggr. Base Mat'l. Ty. I No. 21B

NOT TO SCALE

TYPE III
Asphalt



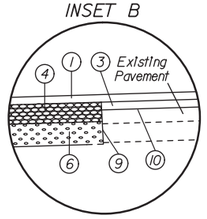
Asphalt Conc. Type SM-9.5A @ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I No. 21B

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

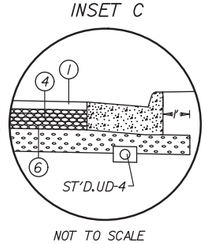
The type of entrance (I, II, III, IV) to be constructed will be determined by the existing condition at the time of construction.

INSET B



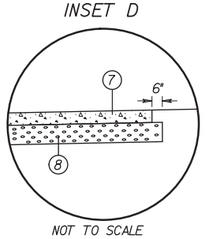
NOT TO SCALE

INSET C



NOT TO SCALE

INSET D



NOT TO SCALE

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	2A(2)

P.A.C. PLANS

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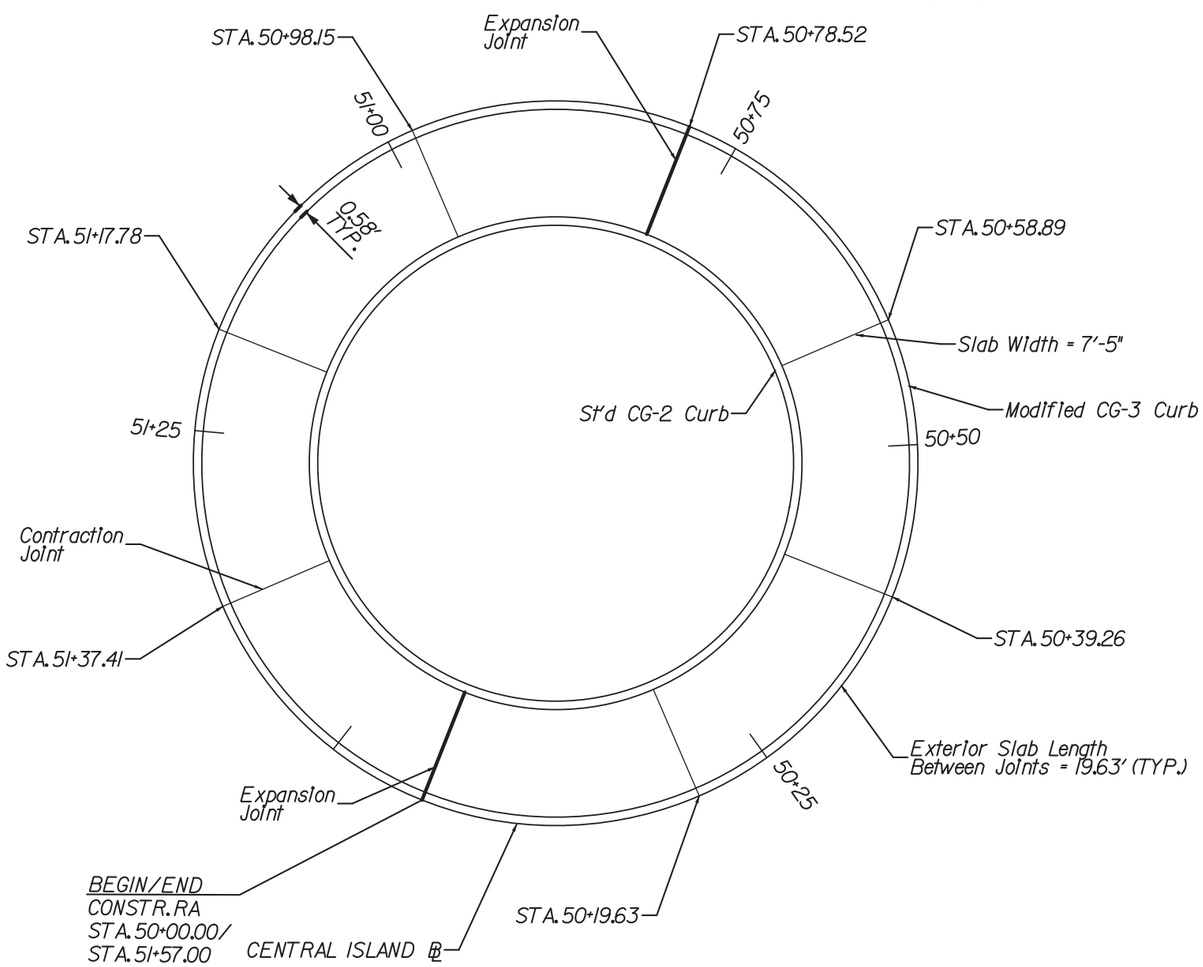
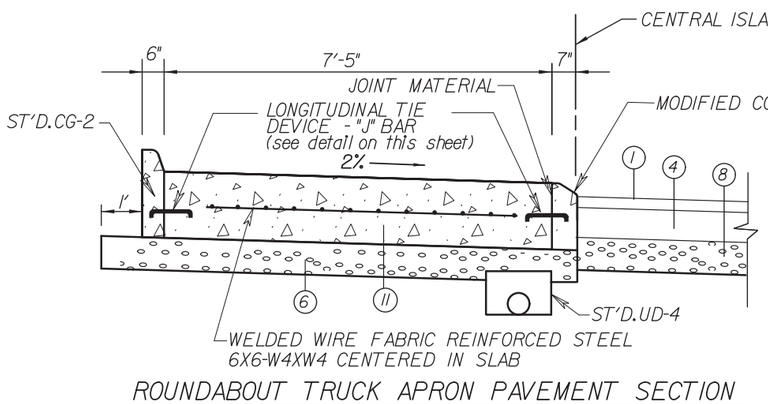
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

JOINT SPACING DETAILS FOR ROUNDABOUT TRUCK APRON

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	2A(3)

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





ROUNDABOUT TRUCK APRON PAVEMENT SECTION

NOTES:

1. CONSTRUCT ROUNDABOUT SHOULDER SLABS AS SHOWN ABOVE. NOTE: MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS 19.63'.

2. EXPANSION JOINTS SHALL CONFORM TO SHEETS 301.01, 301.02, & 301.03 OF THE 2016 ROAD AND BRIDGE STANDARDS.

3. STATIONS AND OFFSETS REFER TO THE CENTRAL ISLAND BASELINE OF CONSTRUCTION.

PAVEMENT LEGEND

1. 2.0 Inch Depth Asphalt Concrete, Type- SM-9.5A (Est. Placement Density: 180 LBS./S.Y.)
2. 2.0 Inch Depth Asphalt Concrete, Type- IM-19.0A (Est. Placement Density: 240 LBS./S.Y.)
3. 2.5 Inch Depth Asphalt Concrete, Type- IM-19.0A (Est. Placement Density: 300 LBS./S.Y.)
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6. 6.0 Inch Depth Aggregate Base Material Type I, No. 21B connected to a standard UD-4 edgedrain, located beneath the curb and gutter. The aggregate material should be extended 1 foot behind the curb and gutter per detail.
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9. Existing pavement is to be Saw Cut to the full depth of asphalt per St'd WP-2.
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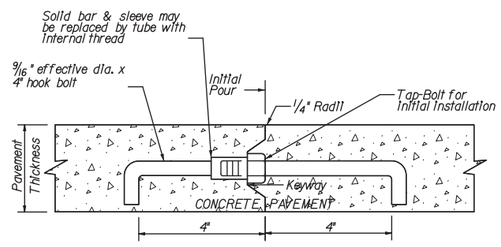
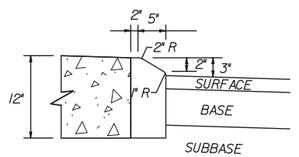
LONGITUDINAL TIE DEVICE "J" BAR



NOT TO SCALE

MODIFIED CG-3 CURB



NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.

2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.

3. THE MODIFICATION TO THE STANDARD CG-3 IS TO REDUCE THE EXPOSED HEIGHT OF THE CURB AS SHOWN. MODIFIED CURB SHALL BE PAID FOR AS STANDARD CG-3.

NOT TO SCALE

PROJECT	SHEET NO.
VDOT 0001-076-995 PWC 1006-4N0-0	2A(3)

P.A.C. PLANS

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DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

RADIAL OFFSET & POINT BREAKS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4N0-0	2C(1)

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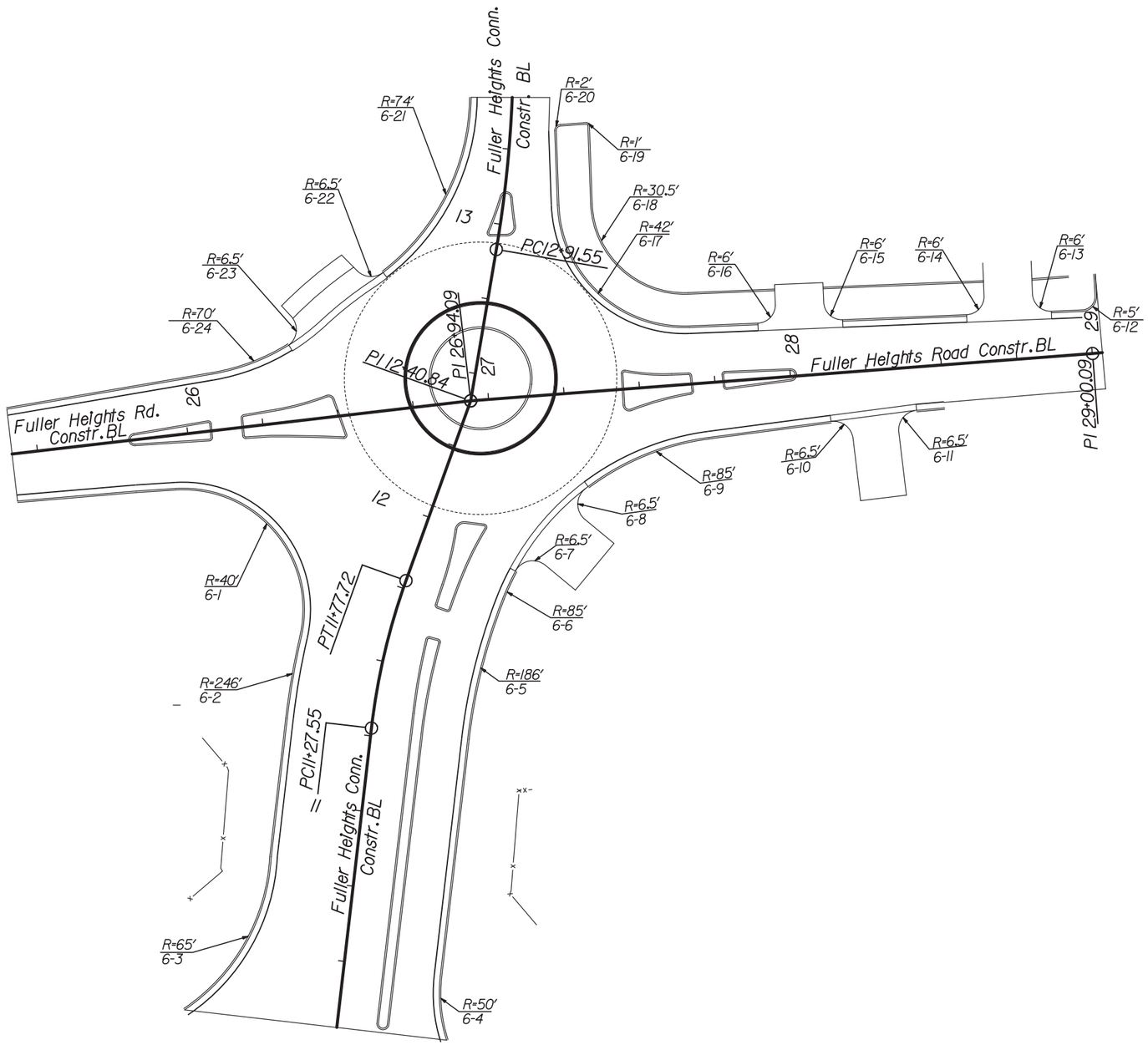
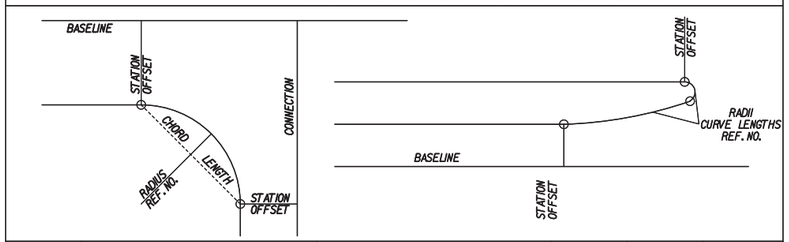


RADIAL OFFSETS / BULLET NOSE DATA



LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH
SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET
6-1	25+93.93	17.54	11+51.89	-28.00	40.0	64.17	74.47
6-2	11+51.89	-28.00	11+27.55	-28.00	246.0	27.44	27.46
6-3	10+81.58	-28.00	10+28.00	-50.63	65.0	58.15	60.30
6-4	10+28.00	36.50	10+48.73	32.00	50.0	21.20	21.37
6-5	11+27.55	32.00	11+82.88	32.07	186.0	47.83	47.96
6-6	11+82.88	32.07	11+92.91	32.95	85.0	10.07	10.07
6-7	11+92.91	32.95	11+98.08	41.58	6.5	10.06	11.50
6-8	12+16.75	48.75	27+30.62	31.18	6.5	10.90	11.67
6-9	27+30.62	31.18	27+71.62	18.03	85.0	43.06	43.54
6-10	28+12.26	15.82	28+19.10	22.03	6.5	9.24	10.28
6-11	28+34.31	21.10	28+40.71	14.31	6.5	9.33	10.4
6-12	28+97.70	-14.09	29+03.13	-18.97	5.0	7.14	7.95
6-13	28+81.80	-21.16	28+87.59	-14.95	6.0	8.49	9.42
6-14	28+59.60	-15.94	28+65.81	-21.73	6.0	8.49	9.42
6-15	28+12.84	-23.60	28+18.62	-17.40	6.0	8.49	9.42
6-16	27+90.64	-18.39	27+96.85	-24.17	6.0	8.49	9.42
6-17	27+68.04	-18.69	13+08.64	17.84	42.0	59.52	66.15
6-18	13+10.36	29.19	27+68.45	-30.18	30.5	43.23	48.04
6-19	13+35.21	24.79	13+34.37	25.92	1.0	1.44	1.61
6-20	13+34.14	16.32	13+32.07	14.60	2.0	2.75	3.03
6-21	13+41.55	-13.56	12+77.81	-35.60	74.0	64.77	67.04
6-22	12+76.96	-44.17	12+77.81	-35.60	6.5	8.60	9.4
6-23	26+38.39	-34.59	26+36.52	-25.21	6.5	9.57	10.75
6-24	26+10.43	-18.62	26+36.52	-25.21	70.0	26.91	27.1

NTS	PROJECT VDOT 0001-076-995 PWC 1006-4N0-0	SHEET NO. 2C(1)

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RADIAL OFFSET & POINT BREAKS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	2C(2)

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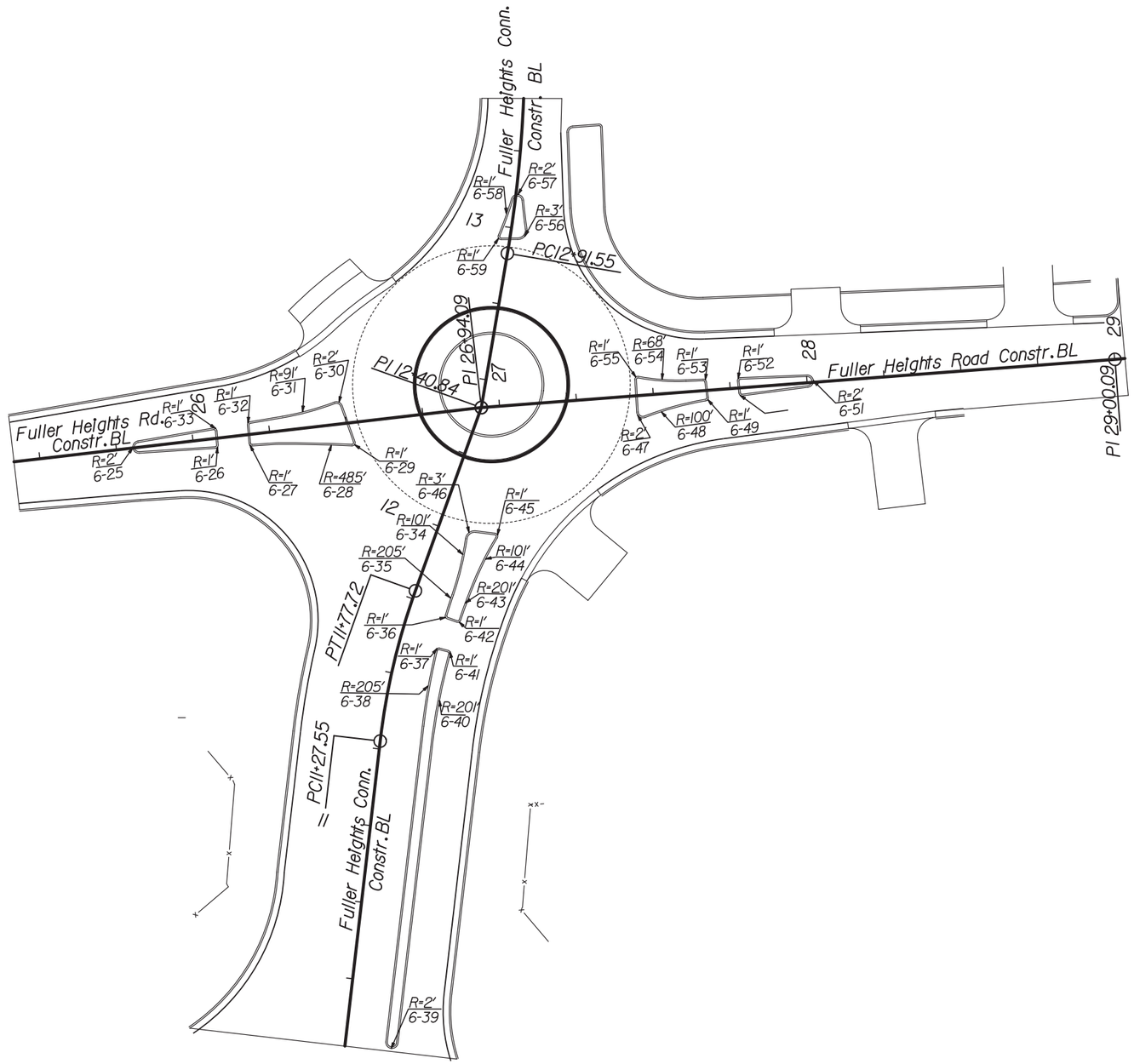
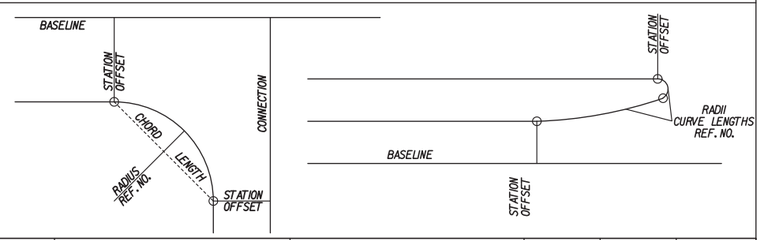


RADIAL OFFSETS / BULLET NOSE DATA



LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH
SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET
6-25	25+82.25	1.92	25+82.25	-2.08	2	4.00	6.07
6-26	26+06.90	3.18	26+07.95	2.21	1	1.43	1.59
6-27	26+17.94	2.77	26+18.89	3.79	1	1.40	1.55
6-28	26+50.99	7.50	26+27.06	4.21	485	24.16	24.16
6-29	26+50.99	7.50	26+52.13	6.28	1	1.66	1.95
6-30	26+49.36	-5.75	26+46.93	-7.25	2	2.85	3.18
6-31	26+46.93	-7.25	26+29.65	-4.63	91	17.47	17.5
6-32	26+19.06	-4.06	26+18.11	-3.09	1	1.35	1.49
6-33	26+08.09	-2.39	26+07.03	-3.41	1	1.47	1.65
6-34	11+99.12	9.55	11+80.59	11.57	101	18.64	18.67
6-35	11+73.36	11.76	11+80.59	11.57	205	7.00	7.00
6-36	11+73.36	11.76	11+72.33	12.75	1	1.39	1.53
6-37	11+61.91	13.11	11+60.81	12.13	1	1.42	1.59
6-38	11+60.81	12.13	11+34.33	12.90	205	24.96	24.97
6-39	10+30.90	13.00	10+30.86	17.00	2	4.00	6.05
6-40	11+27.55	17.00	11+60.88	17.00	201	30.70	30.73
6-41	11+60.88	17.00	11+61.96	15.99	1	1.42	1.58
6-42	11+72.28	15.99	11+73.35	17.00	1	1.42	1.58
6-43	11+73.35	17.00	11+87.31	17.23	201	13.62	13.62
6-44	11+87.31	17.23	12+02.82	19.18	101	15.63	15.65
6-45	12+02.82	19.18	12+04.00	17.99	1	1.67	2.00
6-46	11+99.12	9.55	12+02.65	11.85	3	4.21	4.67
6-47	27+44.19	-5.27	27+46.77	7.23	2	3.24	3.77
6-48	27+46.77	7.23	27+66.82	3.33	100	20.42	20.46
6-49	27+66.82	3.33	27+67.73	2.28	1	1.38	1.53
6-50	27+77.71	-1.67	27+78.76	2.62	1	1.42	1.58
6-51	28+00.14	-2.54	28+00.18	1.46	2	4.00	6.10
6-52	27+77.52	-2.26	27+78.55	-3.31	1	1.47	1.65
6-53	27+66.52	-3.73	27+67.48	-2.78	1	1.35	1.48
6-54	27+66.52	-3.73	27+45.65	-6.22	68	21.01	15.45
6-55	27+45.65	-6.22	27+44.39	-5.27	1	1.57	1.81
6-56	12+96.53	2.61	13+00.32	5.01	3	4.52	5.11
6-57	13+09.33	2.67	13+09.24	-1.26	2	3.92	5.51
6-58	13+09.24	-1.26	12+96.88	-3.82	1	12.54	12.55
6-59	12+96.88	-3.83	27+04.66	-53.82	1	1.67	1.97

NTS	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	2C(2)

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

UNDERGROUND UTILITIES TEST HOLE INFORMATION

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	2D

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

TEST HOLE	NORTHING	EASTING	UTILITY	DEPTH	TOP ELEV.	DATE DUG
1	6883724.0343	11816047.5565	(3) 4" Pl.Cond.& (2) D.B.Cables - Tele.	1.85'	96.79'	12/20/2011
2	6883750.7844	11816128.7590	6" Stl.Gas	9.83'	88.69'	12/20/2011
3	6883704.1208	11816095.4253	6" Stl.Gas	6.29'	92.31'	12/20/2011
4	6883664.8898	11816261.5864	0.5" D.B.Cable - Fiber Optic	2.67'	94.09'	12/20/2011
5	6883743.6868	11816590.8750	2.5" X.S.Gas	3.34'	90.40'	01/24/2012
6	6883711.3272	11816580.8574	12" D.I.Water	3.18'	90.63'	01/24/2012
7	6883780.8408	11816716.3262	8" C.I.Water	4.64'	89.70'	01/24/2012
8	6883428.5854	11816703.6425	0.5" D.B.Cable - Fiber Optic	2.50'	92.67'	12/20/2011
9	Not dug - will use survey shot on pipe					
10	6883499.2275	11816756.0273	4" Stl.Gas	3.19'	87.31'	01/25/2012

UTILITY OWNERS

Dominion Virginia Power
David Ojumu
3072 Centreville Road
Herndon,VA 20171
(571)-203-5165
david.o.ojumu@dominionenergy.com

Coastal Consultants,P.C.(Columbia Gas)
D.Eric Ertzner
3523 W Hundred Rd
Chester,VA 23838
(804) 751-9097
eric@coastalcpc.com

Comcast
Amy Goad
11101 University Blvd,Manassas VA 20110
(301) 625-3407
E-mail: Amy_Goad@comcast.com

Additional Contacts:
Miss Utility of Virginia
Telephone 1-800-552-7001
www.missutilityofvirginia.com

Prince William County Service Authority
4 County Complex Court
Woodbridge,VA 22195-226
Contact: Ed Kovalchuk
(703) 335-7944

Verizon South Inc.
9401 Peabody Street
Manassas,VA 20110
Joe Zych
TEC LLC
(540) 903-4188
joezych@msn.com

Quality Assessment & Evaluation (QAE)
Office Designated Government
Representative (DGR) Section
G5 (Public Works Branch)
Marine Corps Base
Quantico,VA
David F.Smith
(703) 784-1151

P.A.C. PLANS

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JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
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SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

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eric@coastalcpc.com

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Additional Contacts:
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Telephone 1-800-552-7001
www.missutilityofvirginia.com

Quality Assessment & Evaluation (QAE)
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Quantico, VA
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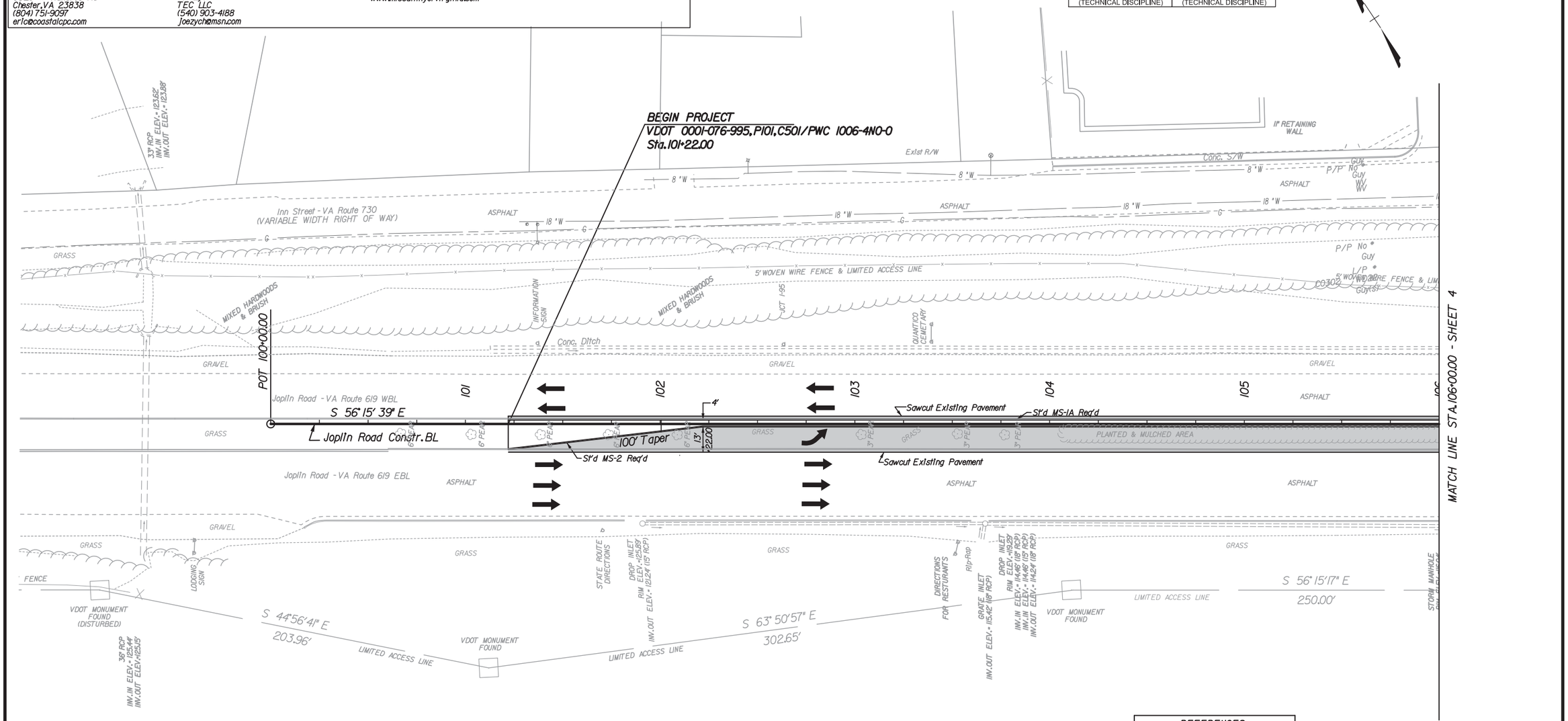
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)	VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4N0-0	3

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



Note : Denotes Demolition of Roadway

Note : Denotes Proposed Pavement

Note : Denotes Overlay of Existing Pavement

Note : All Pluses Are Referenced From Construction Baseline & Connection Baseline Unless Otherwise Noted.

C ..... Denotes Construction Limits In Cuts

F _ _ _ Denotes Construction Limits In Fills

Note : Dot - dashed lines denote Permanent Utility Easements.

Note : Dot - dashed lines denote Permanent Easements.

Note : Dot - dot - dashed lines denote Temporary Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Typical Section	2A(1)
Route 619 Profile (Joplin Road)	3A
Drainage Descr.	8

SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	3

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER: Gladis Arboleda,PWC_DOT (703) 792-5276
SURVEYED BY: JMT (804) 323-9900
DESIGN SUPERVISED BY: JMT (804) 323-9900
DESIGNED BY: JMT (804) 323-9900

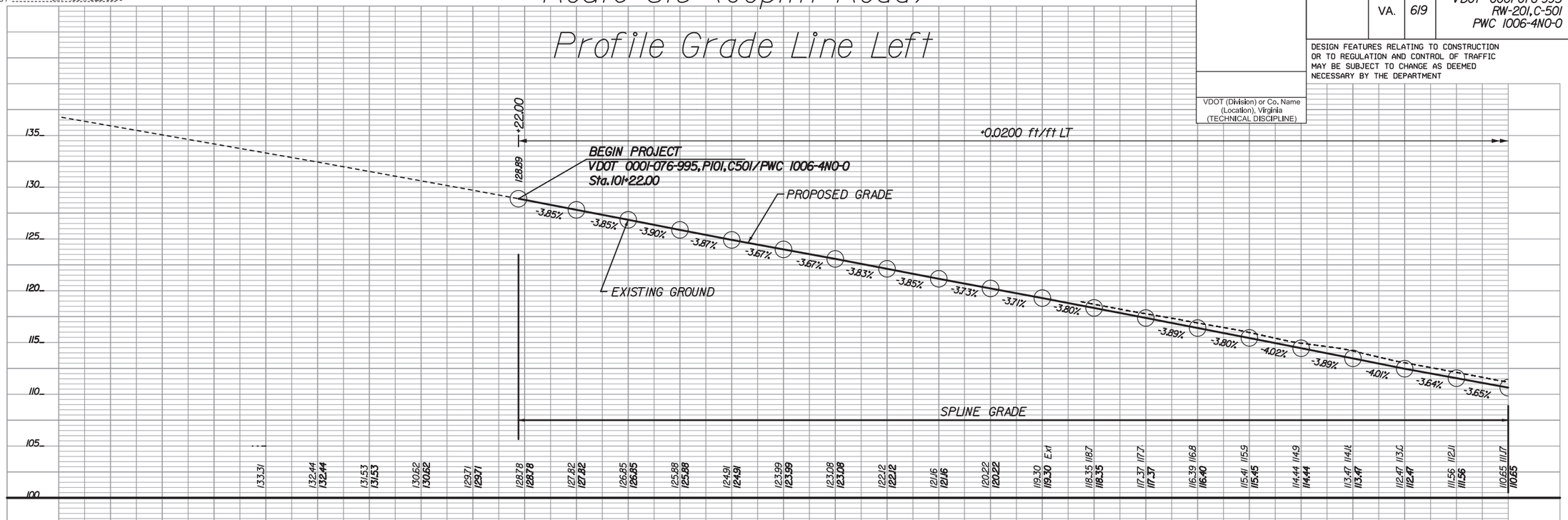
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	3A

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

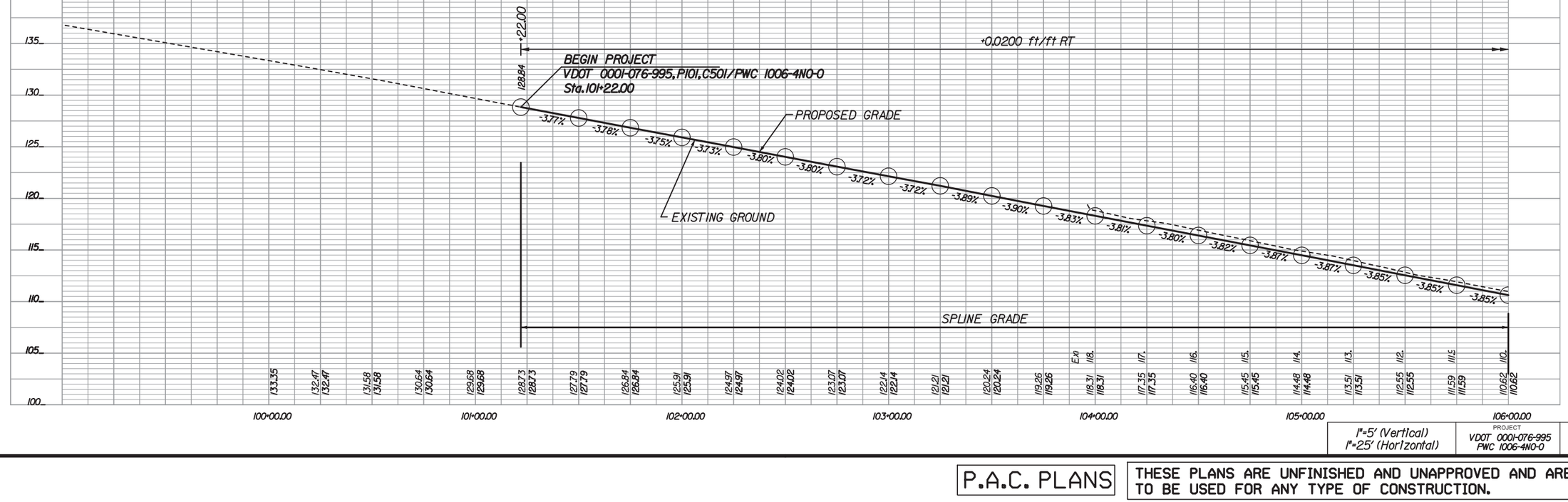
VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

Route 619 (Joplin Road)

Profile Grade Line Left



Profile Grade Line Right



1"=5' (Vertical) 1"=25' (Horizontal)	PROJECT VDOT 0001-076-995 PWC 1006-4N0-0	SHEET NO. 3A

P.A.C. PLANS

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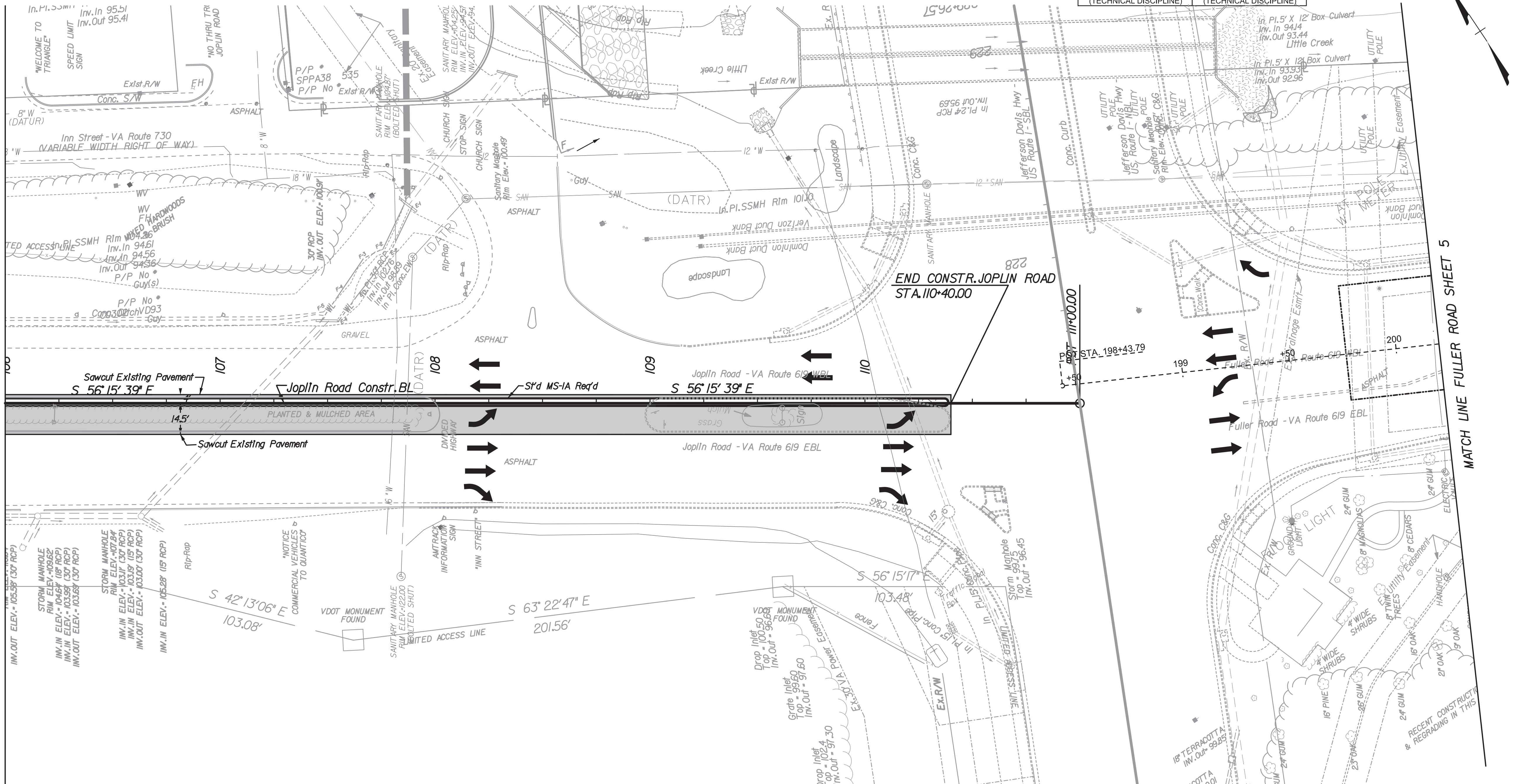
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)	VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4N0-0	4

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



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Typical Section	2A(1)
Route 619 Profile (Joplin Road)	4A
Drainage Descr.	8

Note : Denotes Demolition of Roadway

Note : Denotes Proposed Pavement

Note : Denotes Overlay of Existing Pavement

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Note : Dot - dot - dashed lines denote Temporary Easements.

SCALE 0 25' 50'

PROJECT	SHEET NO.
VDOT 0001-076-995 PWC 1006-4N0-0	4

P.A.C. PLANS

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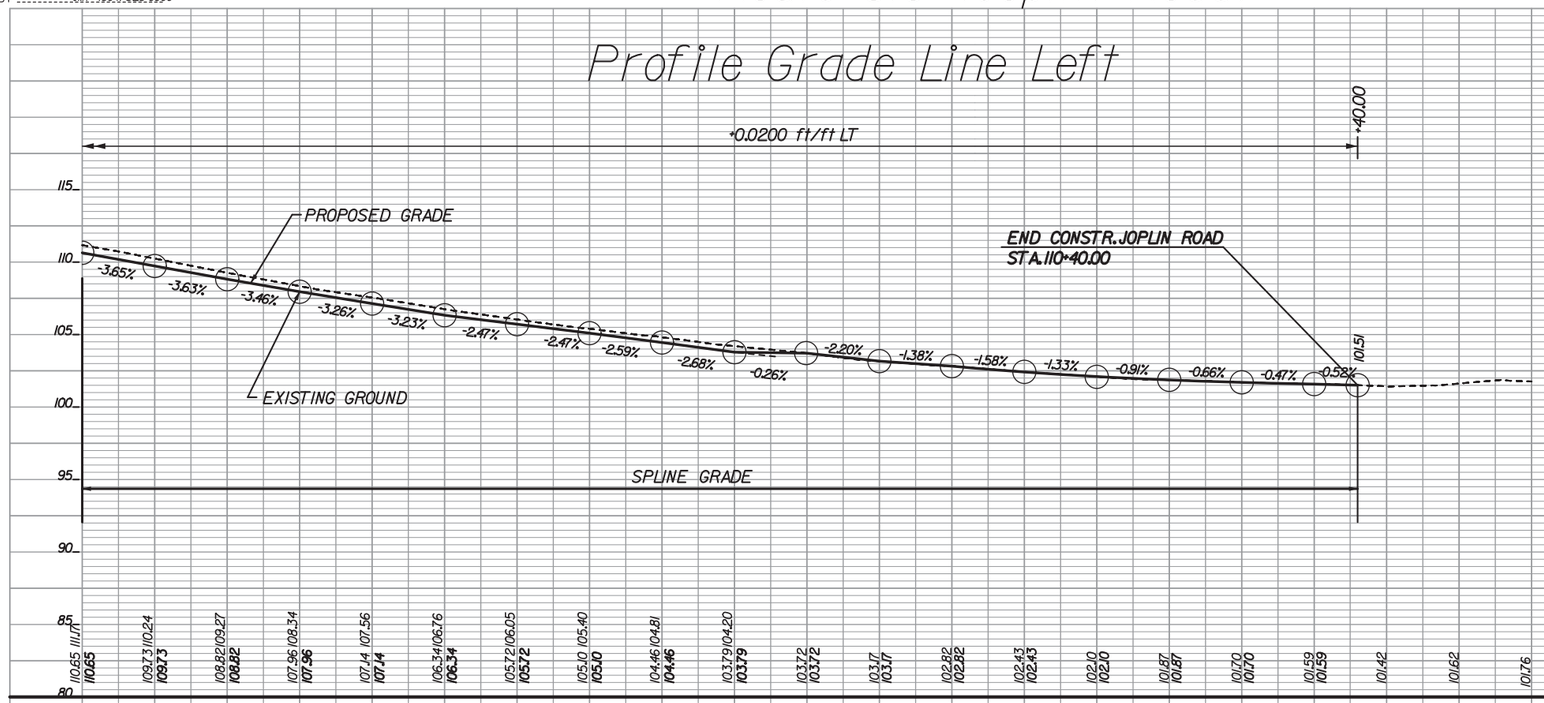
D92999004Adgn
12:06:20 PM

D92999004Adgn
Plotted By: CRONIN

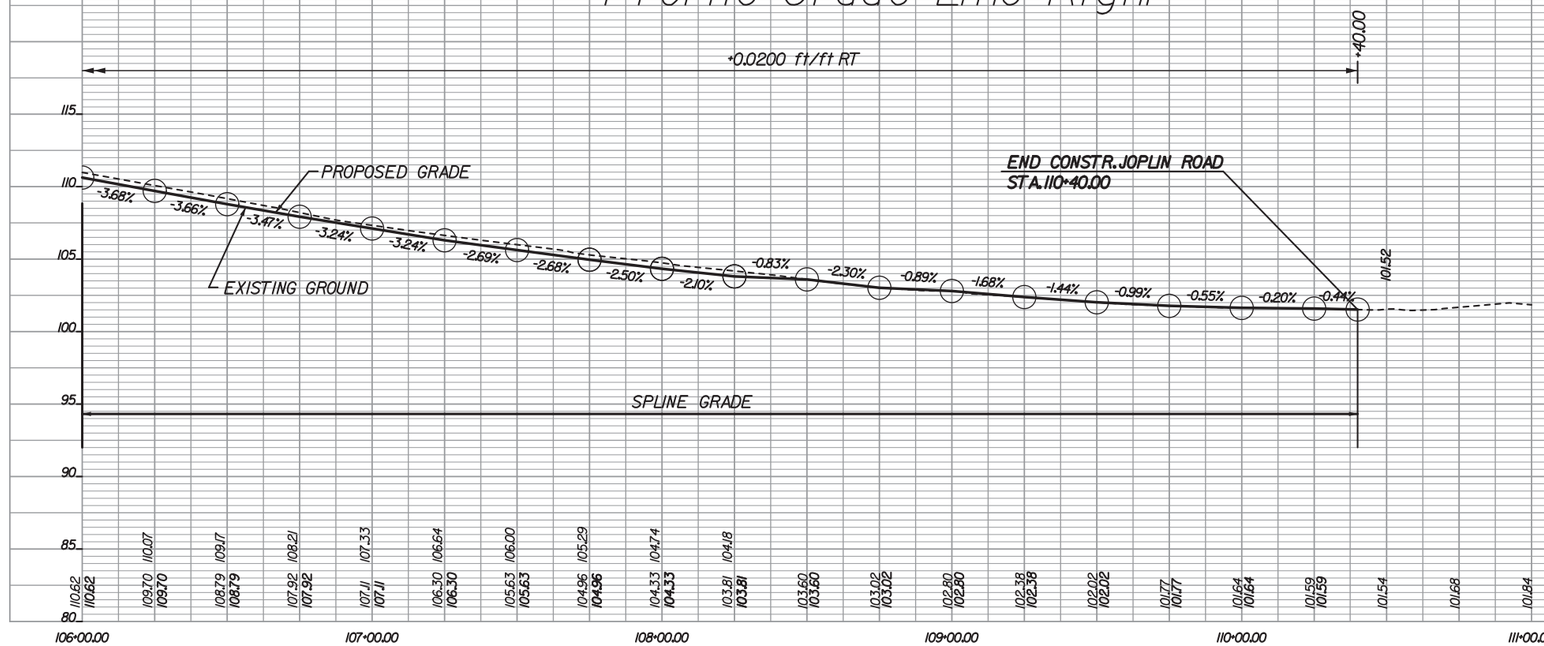
PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY JMT (804) 323-9900
DESIGN SUPERVISED BY JMT (804) 323-9900
DESIGNED BY JMT (804) 323-9900

Route 619 (Joplin Road)

Profile Grade Line Left



Profile Grade Line Right



REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	4A

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VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

1"=5' (Vertical) 1"=25' (Horizontal)	PROJECT VDOT 0001-076-995 PWC 1006-4N0-0	SHEET NO. 4A

P.A.C. PLANS

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Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4N0-0	5

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

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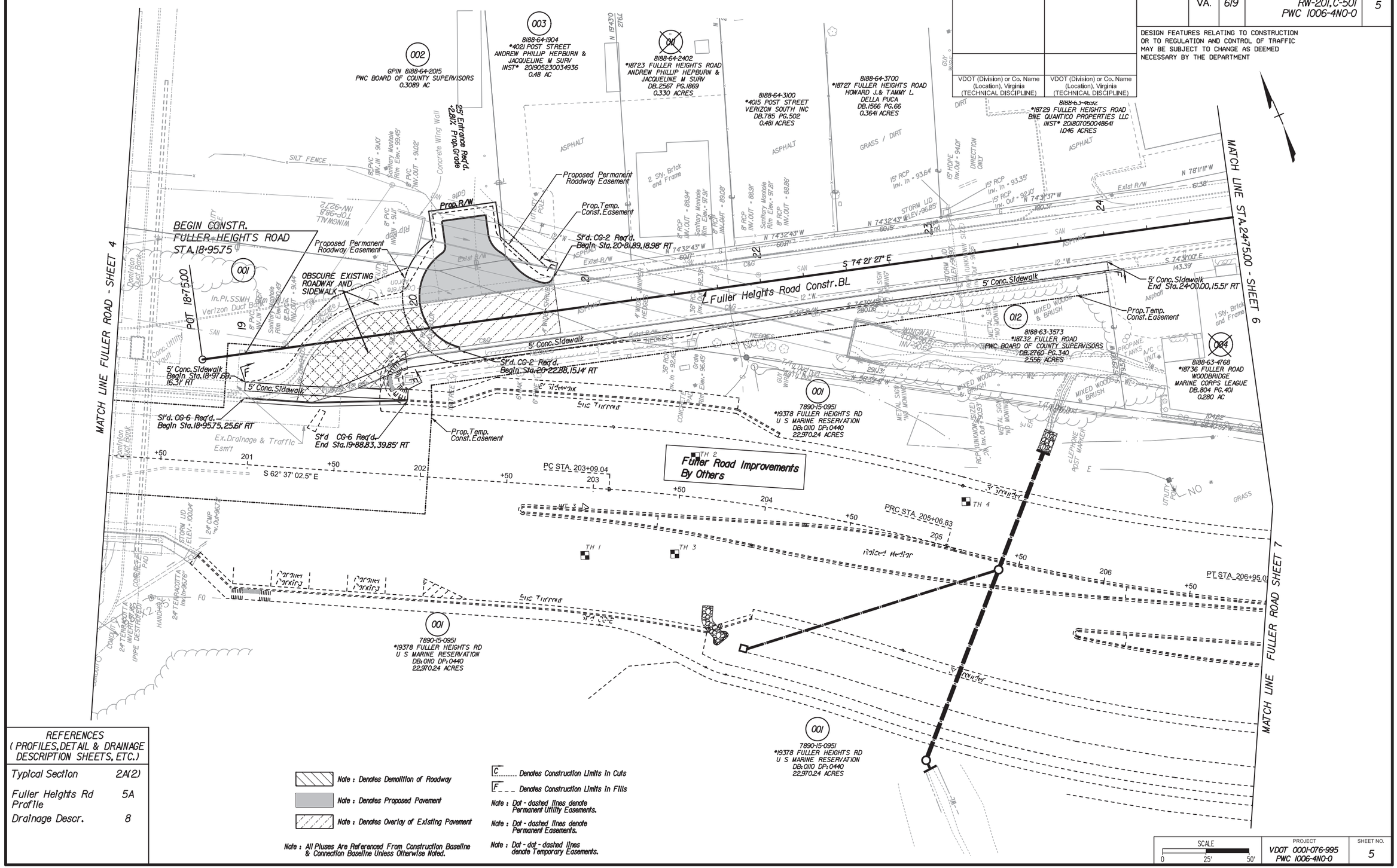

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Typical Section	2A(2)
Fuller Heights Rd Profile	5A
Drainage Descr.	8

Note : Denotes Demolition of Roadway

Note : Denotes Proposed Pavement

Note : Denotes Overlay of Existing Pavement

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SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	5

P.A.C. PLANS

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D92999005Adgn
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D92999005Adgn
Plotted By: CRONIN

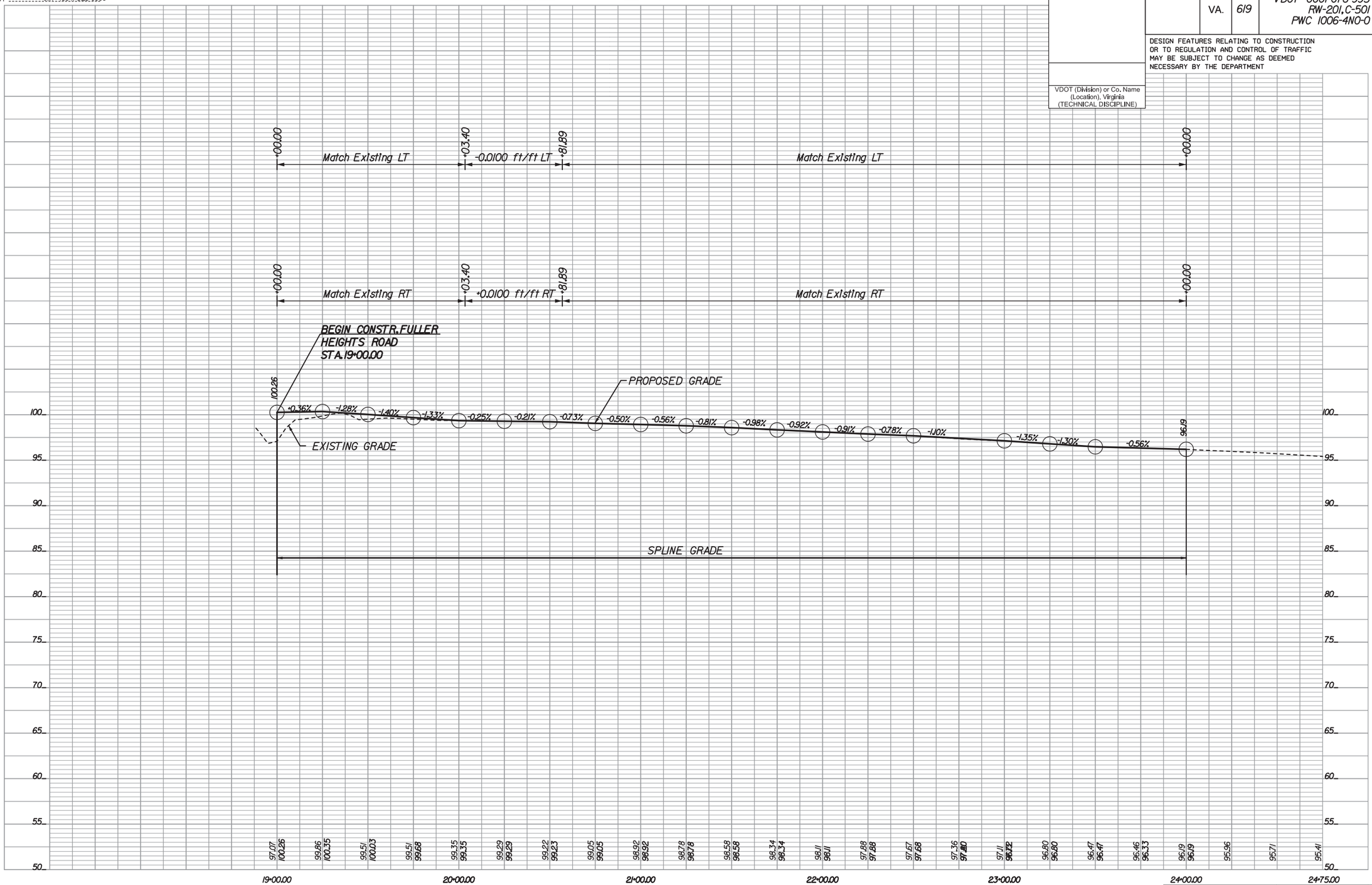
PROJECT MANAGER Gladis Arbaleda,PWC_DOT (703) 792-5276
SURVEYED BY JMT (804) 323-9900
DESIGN SUPERVISED BY JMT (804) 323-9900
DESIGNED BY JMT (804) 323-9900

FULLER HEIGHTS ROAD

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	5A

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



1"=5' (Vertical) 1"=25' (Horizontal)	PROJECT VDOT 0001-076-995 PWC 1006-4N0-0	SHEET NO. 5A

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

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Plotted By: CRONIN

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

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

Typical Section	2A(1) - 2A(3)
Fuller Helghts Rd Profile	6A
Fuller Helghts Conn.& Roundabout Profile	6B
Entrance Profiles	6C
Curb Return Profiles	6D
Drainage Descr.	8(1)
Reloc. Stream Details	8(2)

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201, C-501 PWC 1006-4N0-0	6

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MATCH LINE STA.24+75.00 - SHEET 5

MATCH LINE FULLER HEIGHTS CONN.STA.10+25.00 - SHEET 7

POT 14+25.70

END CONSTR. FULLER HEIGHTS CONNECTION STA.13+42.10

PT 13+55.53

PC 12+91.55

PI 12+40.84 FULLER HEIGHTS CONN.
PI 26+94.09 FULLER HEIGHTS RD

PI 25+25.22

PC 50+00.00
PT 51+57.00

PT 11+77.72

PC 11+27.55

BEGIN CONSTR. FULLER HEIGHTS CONN. STA.10+28.00

PI 29+00.09

POT 31+17.53

END PROJECT
VDOT 0001-076-995, P101, C501/
PWC 1006-4N0-0
STA.29+03.35

Fuller Heights Conn. BL

Fuller Heights Constr. BL

Fuller Heights Rd. Constr. BL

Fuller Heights Road Constr. BL

8188-63-7194
*18700 OLD TRIANGLE ROAD
ALEX P.& NILDA A YADAO
DB.861 PG.71

8188-63-6286
*18737 FULLER HEIGHTS ROAD
ALEX P.& NILDA A. YADAO
DB.950 PG.154
0.280 ACRES

8188-63-5891
*4005 POST STREET
ALEX P.& NILDA A. YADAO
DB.950 PG.154
0.332 ACRES

8188-63-6982
*18704 OLD TRIANGLE ROAD
WILLIAM N.HOBBS
DB.2253 PG.1382
0.25 AC

8188-63-8780
*18701 OLD TRIANGLE RD
CRUZ OMAR & ESTER M CHAMAGUA SURV
INST* 201812030086090

8188-63-8273
*18741 FULLER HEIGHTS ROAD
JANIE M.ZAMRANA
&
MIRIAM S.OSSIO
INST* 200505060073419
0.22 AC

8188-63-9496
*18759 FULLER HEIGHTS ROAD
EARL RICHARD SCHERMERHORN &
LINDA SCHERMERHORN
INST* 201812130088591
0.129 ACRES

8188-73-1265
*18763 FULLER HEIGHTS ROAD
YOUNG MI PARK
INST* 200601170008352
0.122 ACRES
127.00'

8188-63-5666
*18734 FULLER HEIGHTS ROAD
DONALD L.HAPNER TR
DB.804 PG.401
0.170 AC

8188-63-7959
*18742 FULLER HEIGHTS ROAD
MCP LTD
DB.1101 PG.527
0.19 AC

8188-73-0349
*18750 FULLER HEIGHTS ROAD
7-ELEVEN,INC.
INST* 200101102097312

8188-63-8759
*18744 FULLER HEIGHTS ROAD
CONRAD HOLTSAG
&
GEFEN GALIT,SUR.
DB.1544 PG.1414
0.155 ACRES

8188-63-6459
*18738 FULLER ROAD
SUNG-SOO KIM
INST* 200212260167507
0.36 AC

7890-15-0951
*19378 FULLER HEIGHTS RD
U S MARINE RESERVATION
DB.0110 DP.0440
22,570.24 ACRES

REMOVE EXISTING CONCRETE BRIDGE DECK
EXISTING ABUTMENTS TO REMAIN IN PLACE

OBSCURE EXISTING ROADWAY

PUNCH IN STEEL POST

Curve FHCONN1
PI = 11+52.75
DELTA = 13° 11' 04.82" (RT)
D = 26° 16' 57"
T = 25.19'
L = 50.17'
R = 218.00'
PC = 11+27.55
PT = 11+77.72
V= 25 MPH
E = 2.00%
Lr = 52

Curve FHCONN2
PI = 13+23.61
DELTA = 9° 09' 48.10" (LT)
D = 14° 19' 26"
T = 32.05'
L = 63.97'
R = 400.00'
PC = 12+91.55
PT = 13+55.53
V= 25 MPH
E = Match Existing

Curve CIRCLE1
PI = 50+00.04
DELTA = 359° 49' 02.89" (L
D = 229° 10' 59"
T = 0.04'
L = 157.00'
R = 25.00'
PC = 50+00.00
PT = 51+57.00
V= 20 MPH
E = 2.00%
Lr =41

Legend

- Note : Denotes Demolition of Roadway
- Note : Denotes Proposed Pavement
- Note : Denotes Overlay of Existing Pavement

Note : All Pluses Are Referenced From Construction Baseline & Connection Baseline Unless Otherwise Noted.

- C ..... Denotes Construction Limits In Cuts
- F _ _ Denotes Construction Limits In Fills
- Note : Dot - dashed lines denote Permanent Utility Easements.
- Note : Dot - dashed lines denote Permanent Easements.
- Note : Dot - dot - dashed lines denote Temporary Easements.

1. Denotes Std.CG-12B Req'd.
2. Denotes Std.CG-6 Req'd.
3. Denotes Std.CG-2 Req'd.
4. Denotes Std.MS-1 Req'd.
5. Denotes Std.HR-1 Req'd Type I on Wingwalls Req'd Type II on Headwall Req'd
6. Denotes Demolition of Existing Concrete Entrance and Replacement with Type IV Asphalt Commercial

SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	6

P.A.C. PLANS

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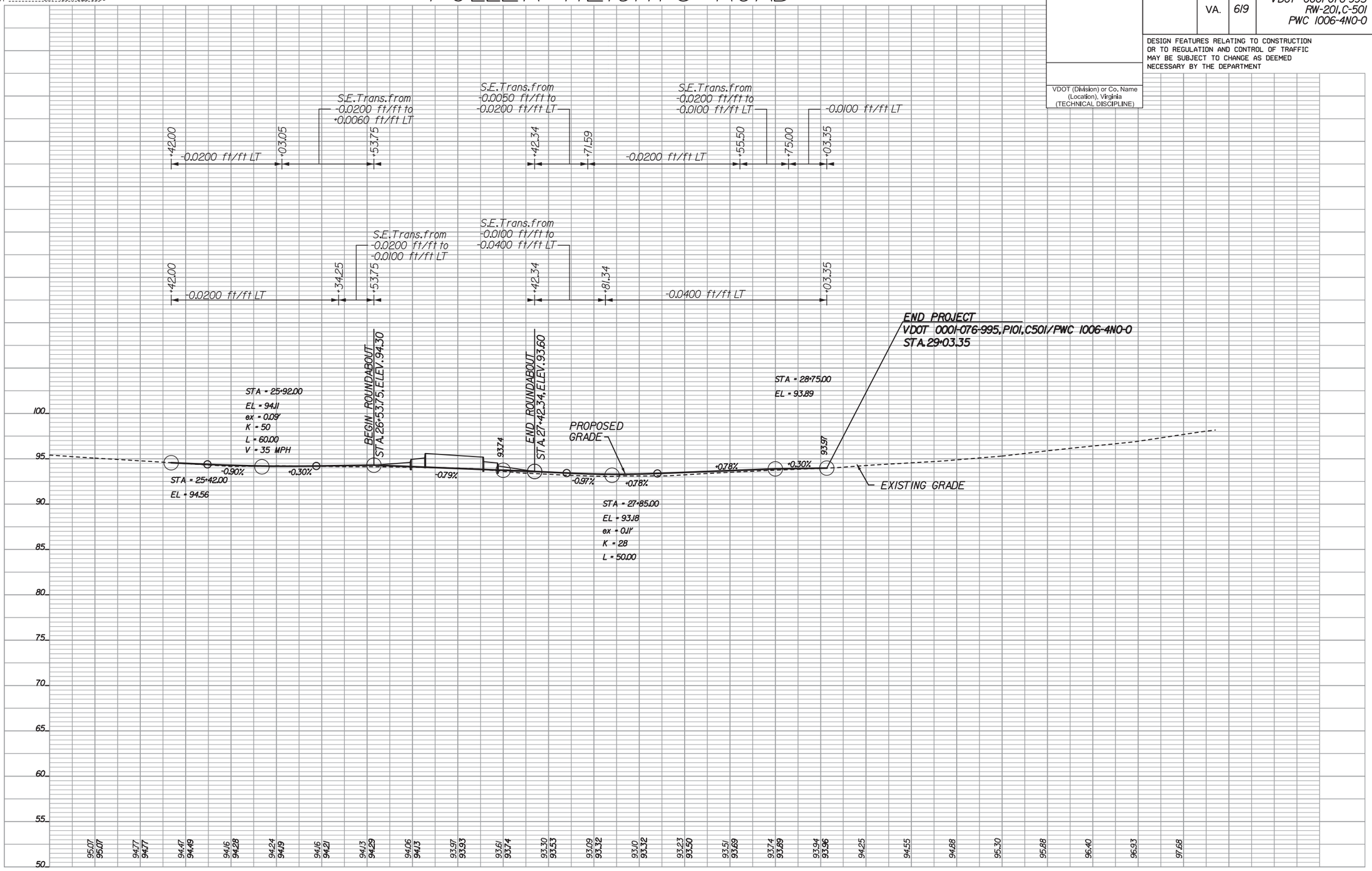
PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY JMT (804) 323-9900
DESIGN SUPERVISED BY JMT (804) 323-9900
DESIGNED BY JMT (804) 323-9900

FULLER HEIGHTS ROAD

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	6A

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



95.07	95.07	94.77	94.77
94.47	94.49	94.16	94.28
94.24	94.19	94.16	94.21
94.13	94.29	94.06	94.13
93.97	93.93	93.61	93.74
93.30	93.53	93.09	93.32
93.10	93.32	93.23	93.50
93.51	93.69	93.74	93.89
93.94	93.96	94.25	94.55
94.88	95.30	95.88	96.40
96.93	97.68		

	PROJECT	SHEET NO.
1"=5' (Vertical) 1"=25' (Horizontal)	VDOT 0001-076-995 PWC 1006-4N0-0	6A

P.A.C. PLANS

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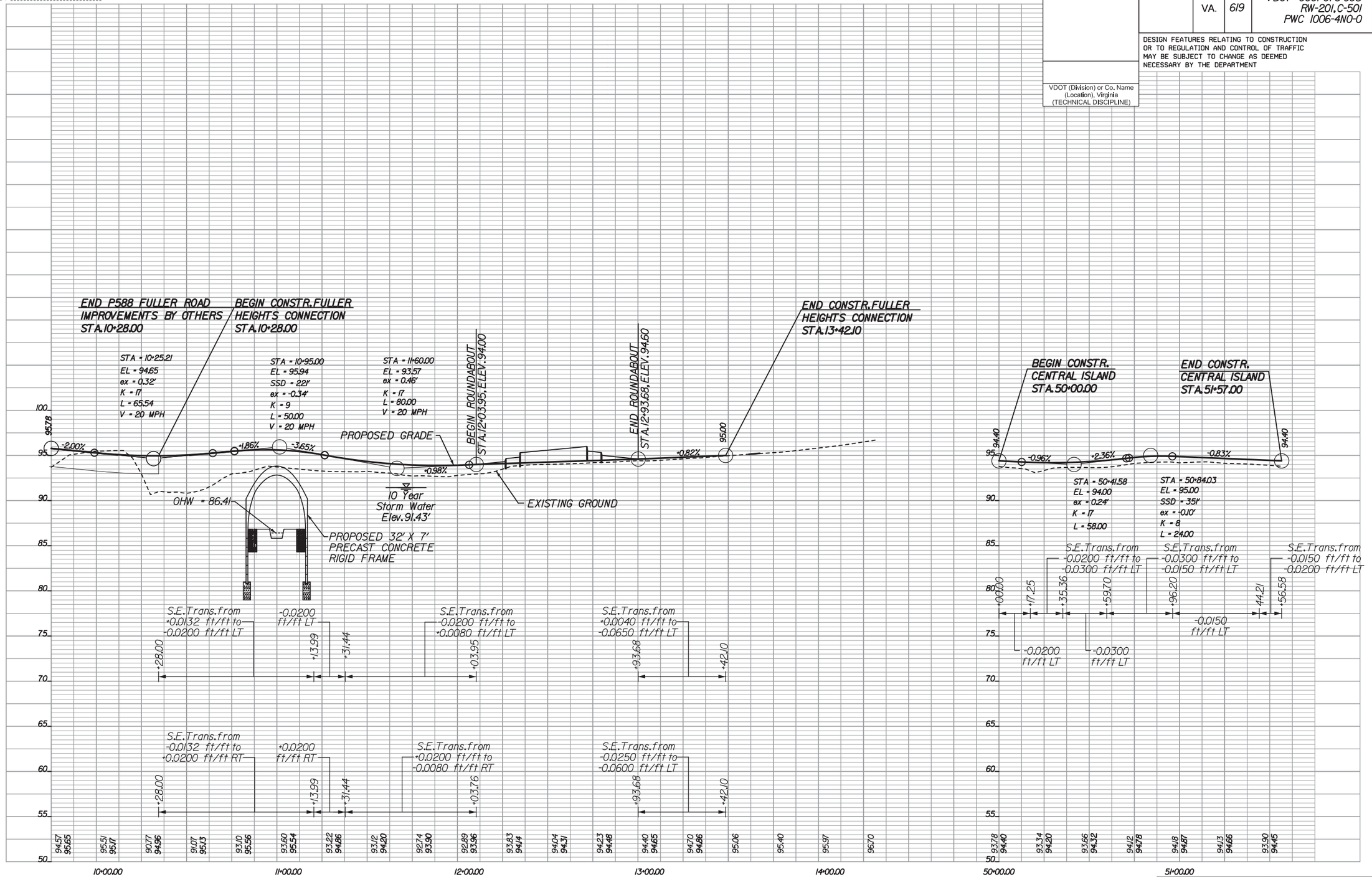
SURVEYED BY JMT (804) 323-9900
DESIGN SUPERVISED BY JMT (804) 323-9900
DESIGNED BY JMT (804) 323-9900

FULLER HEIGHTS CONNECTION & ROUNDABOUT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	6B

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



	PROJECT	SHEET NO.
1"=5' (Vertical) 1"=25' (Horizontal)	VDOT 0001-076-995 PWC 1006-4N0-0	6B

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY JMT (804) 323-9900
DESIGN SUPERVISED BY JMT (804) 323-9900
DESIGNED BY JMT (804) 323-9900

Entrance Profiles

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	6C

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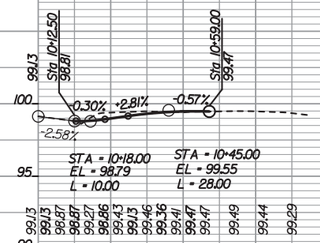
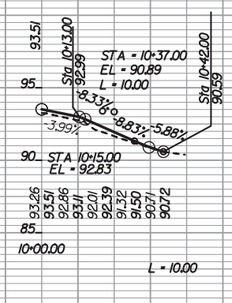
VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

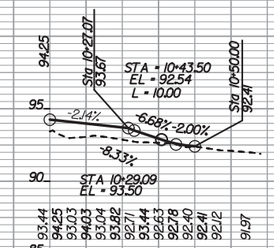
Fuller Height Rd. Constr. BL
Sta. 20+35.50



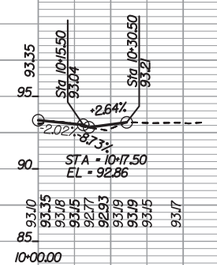
Fuller Height Rd. Constr. BL
Sta. 28+27.00



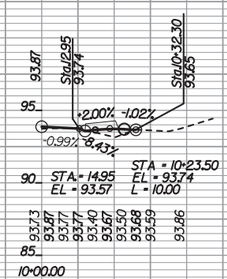
Roundabout Constr. BL
Sta. 50+15.50



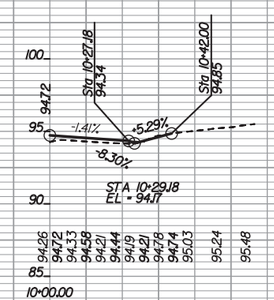
Fuller Height Rd. Constr. BL
Sta. 28+05.00



Fuller Height Rd. Constr. BL
Sta. 28+73.00



Roundabout Constr. BL
Sta. 51+17.50



1"=5' (Vertical) 1"=25' (Horizontal)	PROJECT VDOT 0001-076-995 PWC 1006-4N0-0	SHEET NO. 6C

P.A.C. PLANS

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SURVEYED BY JMT (804) 323-9900
DESIGN SUPERVISED BY JMT (804) 323-9900
DESIGNED BY JMT (804) 323-9900

Curb Return Profiles

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	6D

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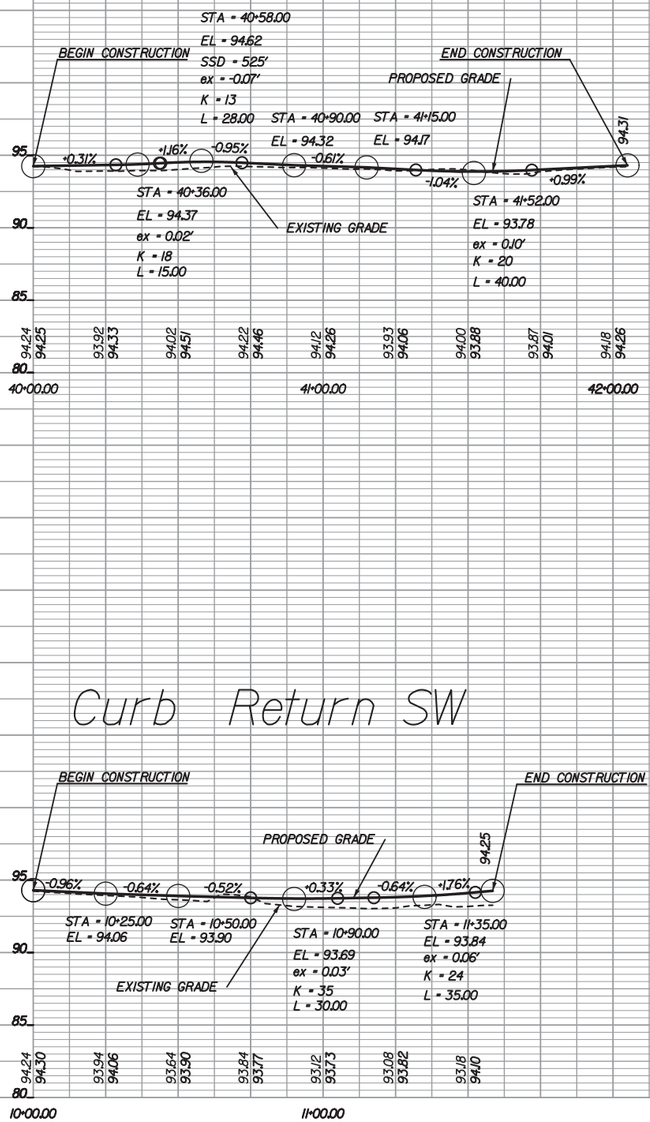
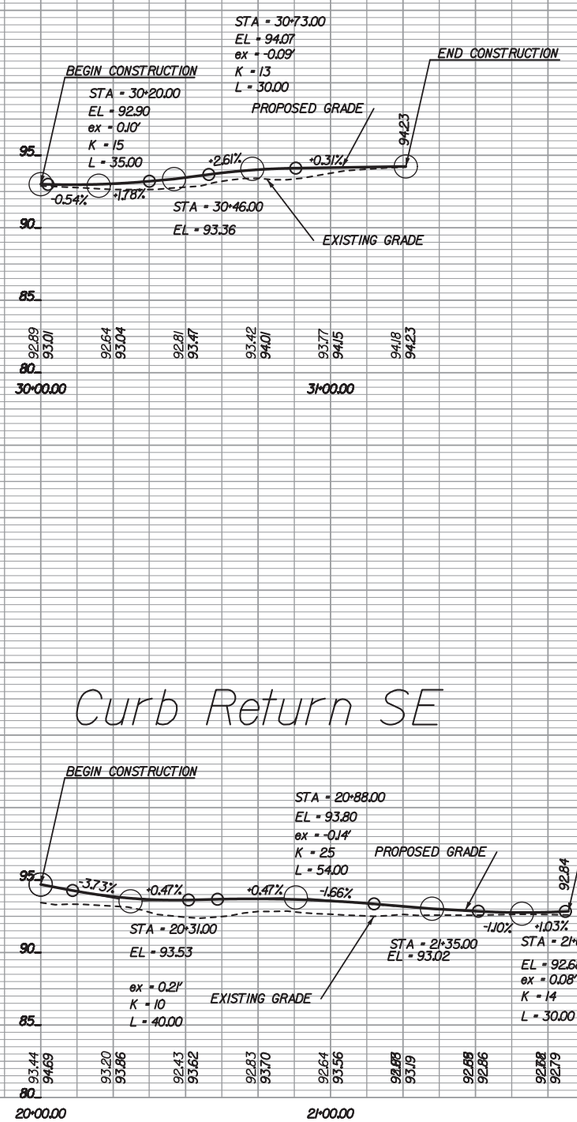
VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

Curb Return NW



Curb Return NE



Curb Return SW

Curb Return SE

1"=5' (Vertical) 1"=25' (Horizontal)	PROJECT VDOT 0001-076-995 PWC 1006-4N0-0	SHEET NO. 6D

P.A.C. PLANS

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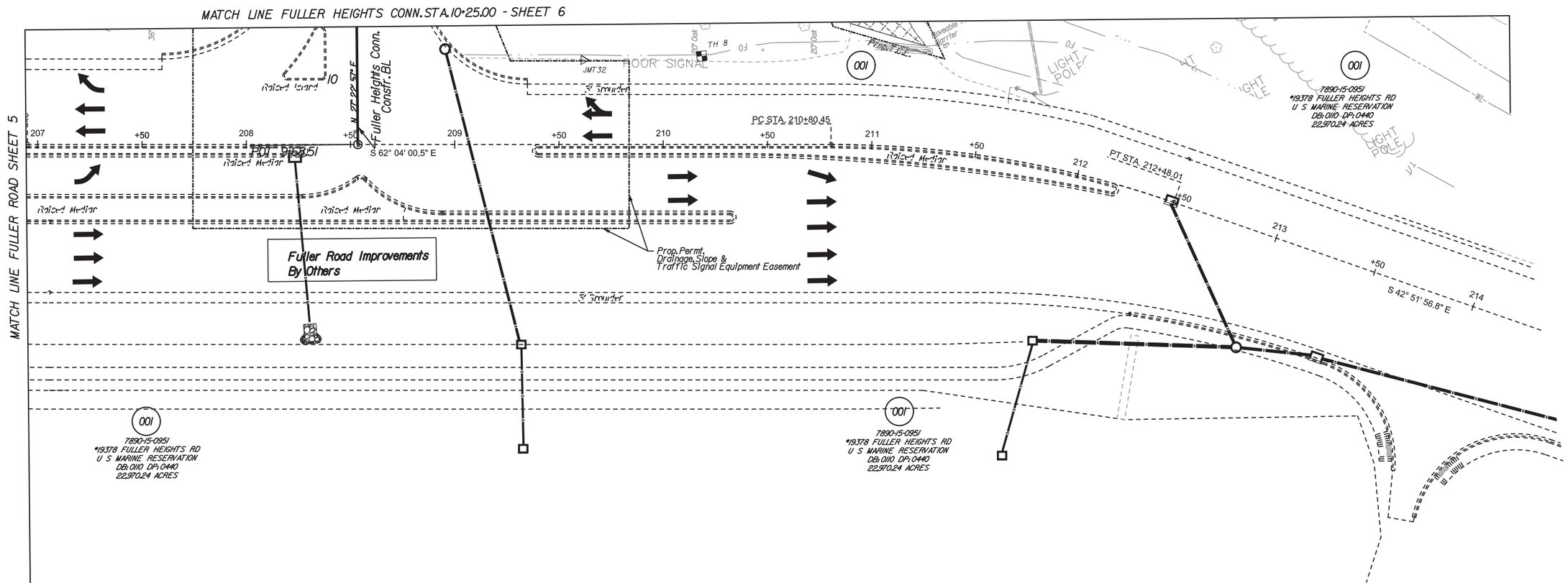
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	7

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)	VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



Note : Denotes Demolition of Roadway

Note : Denotes Proposed Pavement

Note : Denotes Overlay of Existing Pavement

Note : All Pluses Are Referenced From Construction Baseline & Connection Baseline Unless Otherwise Noted.

C ..... Denotes Construction Limits In Cuts

F _ _ _ Denotes Construction Limits In Fills

Note : Dot - dashed lines denote Permanent Utility Easements.

Note : Dot - dashed lines denote Permanent Easements.

Note : Dot - dot - dashed lines denote Temporary Easements.

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

SCALE	PROJECT	SHEET NO.
0 25' 50'	VDOT 0001-076-995 PWC 1006-4N0-0	7

P.A.C. PLANS

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PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	8(1)

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

DRAINAGE DESCRIPTIONS

SHEET - 6

6-1 — 1 Std.DI-1 Req'd.
H=2.5', Inv.= 90.80

6-1 6-3 — 7' - 15" Storm Sewer Pipe Req'd.
(2' Cover)
Inv.(In) 90.80 Inv.(Out) 90.75

6-2 — 1 Mod.DI-3B with Type B Nose Req'd.
Inlet height is less than st'd.min.
L= 4', H=3.6', Inv.= 91.00

6-2 6-3 — 51' - 15" Storm Sewer Pipe Req'd.
(2' Cover)
Inv.(In) 91.00 Inv.(Out) 90.75

6-3 — 1 Mod.DI-3A with Type B Nose Req'd.
Inlet height is less than st'd.min.
L= 2.5', H=3.6', Inv.= 90.65
Connect CD-2 & UD-4 to DI
St'd.1S-1 Req'd.

6-3 6-4 — 38' - 15" Storm Sewer Pipe Req'd.
(2' Cover)
Inv.(In) 90.65 Inv.(Out) 90.30

6-4 — 1 St'd.DI-3B with Type B Nose Req'd.
L= 4.0', H=4.0', Inv.= 90.20
Connect UD-4 to DI
St'd.1S-1 Req'd.

6-4 6-6 — 35' - 15" Storm Sewer Pipe Req'd.
(2' Cover)
Inv.(In) 90.20 Inv.(Out) 89.80

6-5 — 1 St'd.DI-3A with Type B Nose Req'd.
L= 2.5', H=3.9', Inv.= 90.30
Connect UD-4 to DI

6-5 6-6 — 33' - 15" Storm Sewer Pipe Req'd.
(2' Cover)
Inv.(In) 90.30 Inv.(Out) 89.80

6-6 — 1 St'd.DI-3A with Type B Nose Req'd.
L= 2.5', H=4.3', Inv.= 89.72
Connect UD-4 to DI
St'd.1S-1 Req'd.

6-6 6-6A — 4' - 15" Storm Sewer Pipe Req'd.
(3' Cover)
Inv.(In) 89.72 Inv.(Out) 89.66

6-6A — 3.4 Lin.Ft. St'd.MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd.
Inv.= 89.61, St'd.1S-1 Req'd.
Connect to Exist.15" Conc.Pipe
Connect CD-2 to MH

6-7 — 1 St'd.DI-3A with Type B Nose Req'd.
L= 2.5', H=3.9', Inv.= 90.00
Connect CD-2 & UD-4 to DI

6-7 6-7A — 15' - 15" Storm Sewer Pipe Req'd.
(3' Cover)
Inv.(In) 90.00 Inv.(Out) 89.80

6-7A — 4.8 Lin.Ft. St'd.MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd.
Inv.= 88.50, St'd.1S-1 Req'd.
Connect to Exist.15" Conc.Pipe

6-8 — 1 St'd.DI-3A with Type B Nose Req'd.
L= 2.5', H=3.9', Inv.= 89.20
Connect CD-2 & UD-4 to DI

6-8 6-8A — 48' - 15" Storm Sewer Pipe Req'd.
(3' Cover)
Inv.(In) 89.20 Inv.(Out) 88.85

6-8A — Modify Existing Drop Inlet
to Accept 15" Storm Sewer Pipe

6-9 — 1 St'd.DI-3B with Type B Nose Req'd.
L= 6', H=3.9', Inv.= 89.60
Connect UD-4 to DI

6-9 6-10 — 31' - 15" Storm Sewer Pipe Req'd.
(3' Cover)
Inv.(In) 89.60 Inv.(Out) 89.30

6-10 — 1 St'd.DI-3C with Type B Nose Req'd.
L= 6', H=4.1', Inv.= 89.20
Connect CD-2 & UD-4 to DI

6-10 6-11A — 23' - 15" Storm Sewer Pipe Req'd.
(3' Cover)
Inv.(In) 89.20 Inv.(Out) 88.90

6-11 — 1 St'd.DI-3A with Type B Nose Req'd.
L= 2.5', H=3.9', Inv.= 89.80

6-11 6-11A — 4' - 15" Storm Sewer Pipe Req'd.
(3' Cover)
Inv.(In) 89.80 Inv.(Out) 89.70

6-11A — 4.5 Lin.Ft. St'd.MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd.
Inv.= 88.40, St'd.1S-1 Req'd.
Connect to Exist.15" Conc.Pipe

6-11B — Modify Existing Manhole
Adjust to Grade. Raise 1.3'
1 St'd.MH-1 Frame & Cover Req'd.

6-12 — 1 Cast in place DI-3C with Type B Nose Req'd.
Inlet height is less than st'd.min.
L= 8', H=3.8', Inv.= 90.80
Connect UD-4 to DI
Accept Exist.18" Conc.Pipe

6-12 6-12A — 11' - 18" Storm Sewer Pipe Req'd.
(2' Cover)
Inv.(In) 90.80 Inv.(Out) 90.41

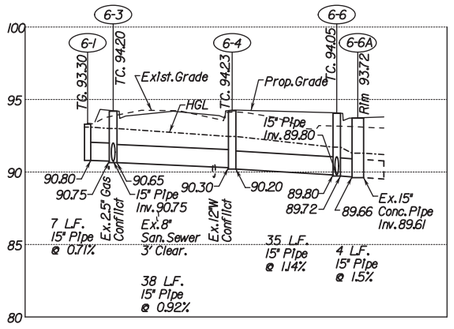
6-12A — Convert Existing DI to Manhole
1 St'd.MH-1 Frame & Cover Req'd.
Accept 18" Storm Sewer Pipe

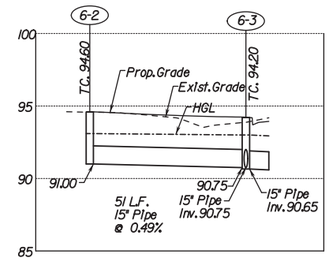
6-13 — 45' - 15" Exist.Conc.Pipe
To Be Abandoned In Place
In Accordance with St'd.PP-1
2.0 Cy.Yds.of Flowable Backfill Req'd.
0.06 Cy.Yds.Concrete Req'd.

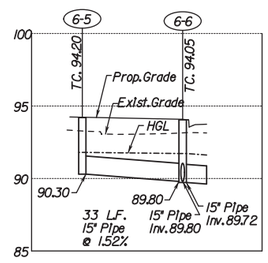
Note:

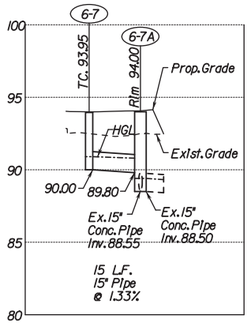
All pipe joints shall be Silt-Tight with the exception of those specified in drainage description to include gaskets which shall be Leak-Resistant.

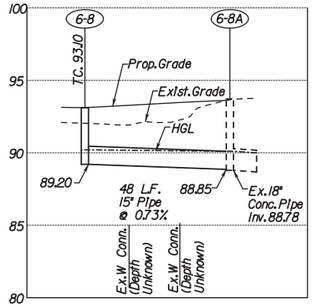
STORM SEWER PROFILES

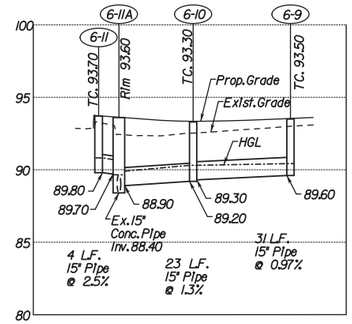


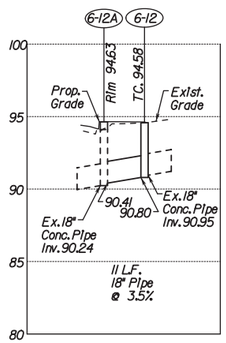


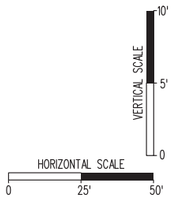












ALLOWABLE TYPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN ON PLANS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	CORRUGATED STEEL ALUMINUM COATED TYPE 2 FULLY CONCRETE LINED	ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)	ALUMINUM SPIRAL RIB	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S
Fuller Heights Road	X				X		X	X
Fuller Heights Conn.	X				X		X	X

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	8(1)

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	8(2)

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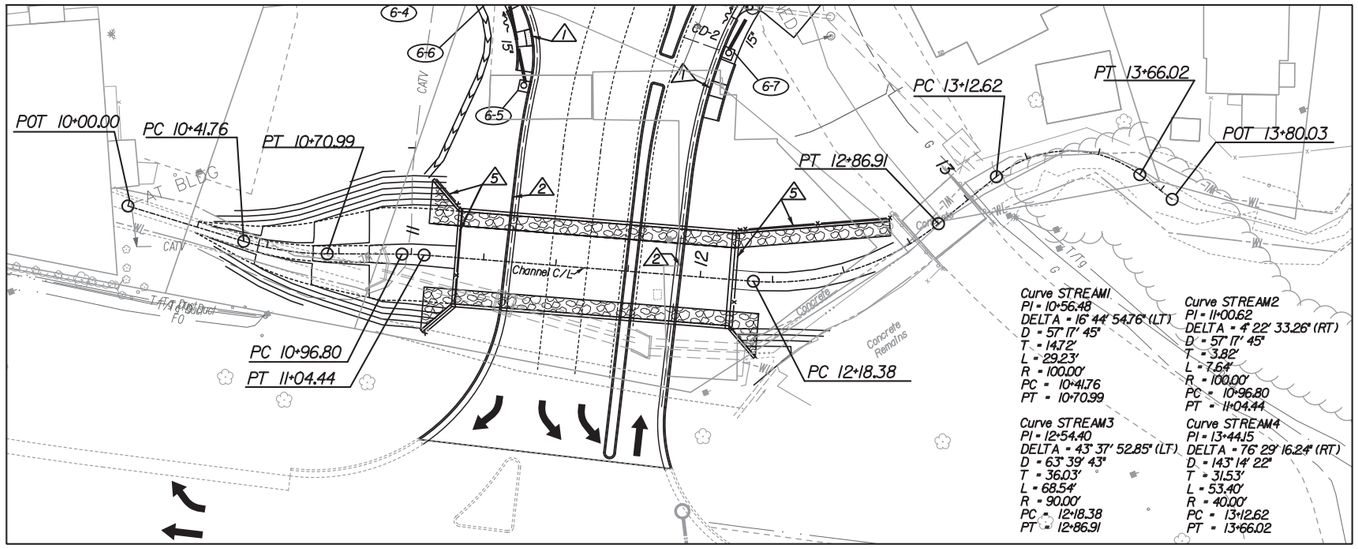
STREAM RELOCATION PLAN



Curve STREAM1
PI = 10+56.48
DELTA = 16° 44' 54.76" (LT)
D = 57° 17' 45"
T = 14.72'
L = 29.23'
R = 100.00'
PC = 10+41.76
PT = 10+70.99

Curve STREAM2
PI = 11+00.62
DELTA = 4° 22' 33.26" (RT)
D = 57° 17' 45"
T = 3.82'
L = 7.64'
R = 100.00'
PC = 10+96.80
PT = 11+04.44

Curve STREAM3
PI = 12+54.40
DELTA = 43° 37' 52.85" (LT)
D = 63° 39' 43"
T = 36.03'
L = 68.54'
R = 90.00'
PC = 12+18.38
PT = 12+86.91

Curve STREAM4
PI = 13+44.15
DELTA = 76° 29' 16.24" (RT)
D = 143° 14' 22"
T = 31.53'
L = 53.40'
R = 40.00'
PC = 13+12.62
PT = 13+66.02

<= I DESCRIBE CHAIN STREAM

Chain STREAM contains
ST1 CUR STREAM1 CUR STREAM2 CUR STREAM3 CUR STREAM4 ST2

Beginning chain STREAM description

Point ST1 N 6,883,655.598 E 11,816,454.965' Sta 10+00.00

Course from ST1 to PC STREAM1 S 52° 17' 02.29" E Dist 41.758

Curve Data

Curve STREAM1
PI Station 10+56.48 N 6,883,620.969' E 11,816,499.642
Delta = 16° 44' 54.76" (LT)
Degree = 57° 17' 44.8"
Tangent = 14.72'
Length = 29.23'
Radius = 100.000
External = 1.07'
Long Chord = 29.128'
Mid.Ord. = 1.066'
P.C. Station 10+41.76 N 6,883,629.975' E 11,816,487.997'
P.T. Station 10+70.99 N 6,883,615.702' E 11,816,513.388'
C.C. N 6,883,709.080' E 11,816,549.723
Back = S 52° 17' 02.29" E
Ahead = S 69° 01' 57.05" E
Chord Bear = S 60° 39' 29.67" E

Course from PT STREAM1 to PC STREAM2 S 69° 01' 57.05" E Dist 25.815

Curve Data

Curve STREAM2
P.I. Station 11+00.62 N 6,883,605.097' E 11,816,541.062
Delta = 4° 22' 33.26" (RT)
Degree = 57° 17' 44.8"
Tangent = 3.82'
Length = 7.637'
Radius = 100.000
External = 0.07'
Long Chord = 7.635'
Mid.Ord. = 0.07'
P.C. Station 10+96.80 N 6,883,606.464' E 11,816,537.494'
P.T. Station 11+04.44 N 6,883,603.461' E 11,816,544.515'
C.C. N 6,883,593.086' E 11,816,501.708'
Back = S 69° 01' 57.05" E
Ahead = S 64° 39' 23.79" E
Chord Bear = S 66° 50' 40.42" E

Course from PT STREAM2 to PC STREAM3 S 64° 39' 23.79" E Dist 113.934

Curve Data

Curve STREAM3
P.I. Station 12+54.40 N 6,883,539.272' E 11,816,680.043
Delta = 43° 37' 52.85" (LT)
Degree = 63° 39' 43.2"
Tangent = 36.026'
Length = 68.536'
Radius = 90.000
External = 6.946'
Long Chord = 66.891'
Mid.Ord. = 6.445'
P.C. Station 12+18.38 N 6,883,554.693' E 11,816,647.484'
P.T. Station 12+86.91 N 6,883,550.573' E 11,816,714.249'
C.C. N 6,883,636.031' E 11,816,660.080'
Back = S 64° 39' 23.79" E
Ahead = N 71° 42' 43.37" E
Chord Bear = S 88° 29' 20.21" E

Course from PT STREAM3 to PC STREAM4 N 71° 42' 43.37" E Dist 25.709'

Curve Data

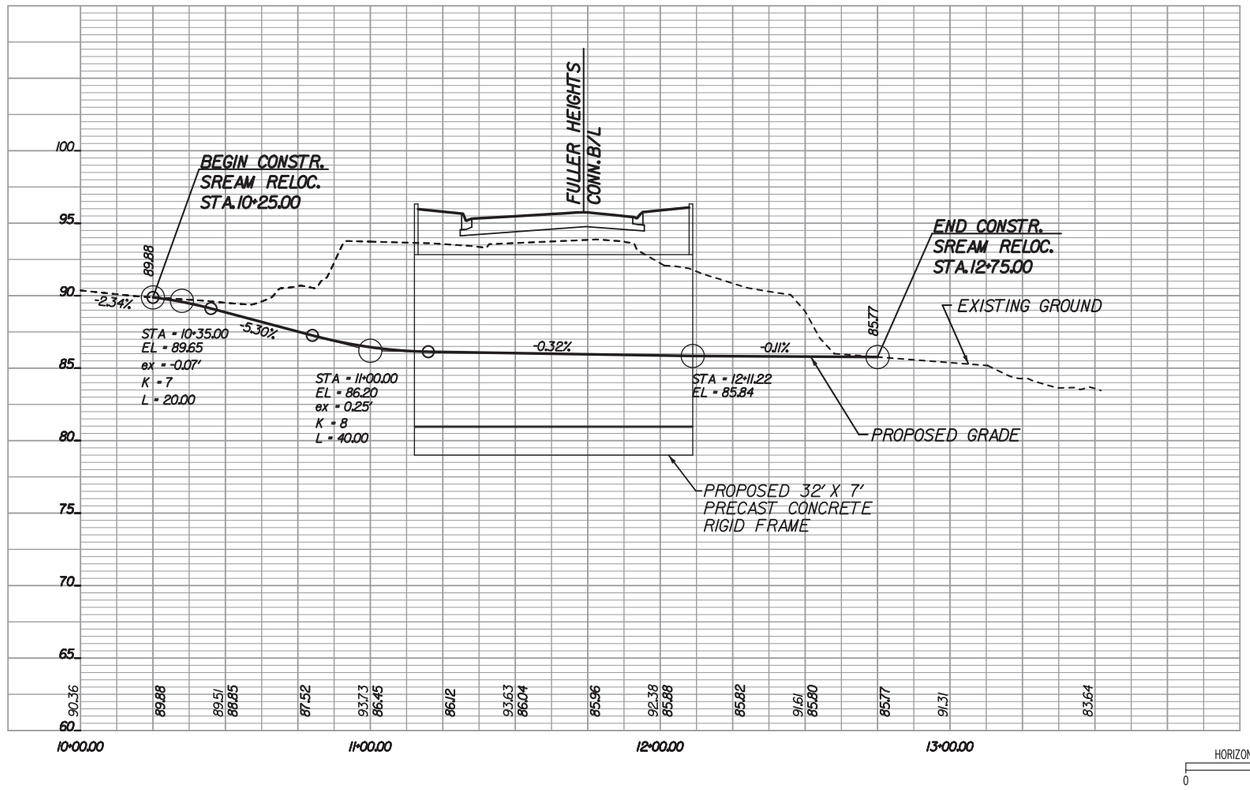
Curve STREAM4
P.I. Station 13+44.15 N 6,883,568.537.4 E 11,816,768.594'
Delta = 76° 29' 16.24" (RT)
Degree = 143° 14' 22.0"
Tangent = 31.526'
Length = 53.398'
Radius = 40.000
External = 10.930'
Long Chord = 49.509'
Mid.Ord. = 8.584'
P.C. Station 13+12.62 N 6,883,558.644' E 11,816,738.660'
P.T. Station 13+66.02 N 6,883,547.432' E 11,816,785.207'
C.C. N 6,883,520.664' E 11,816,751.212'
Back = N 71° 42' 43.37" E
Ahead = S 31° 48' 00.39" E
Chord Bear = S 70° 02' 38.51" E

Course from PT STREAM4 to ST2 S 31° 48' 00.39" E Dist 14.012'

Point ST2 N 6,883,529.834' E 11,816,792.591' Sta 13+80.03

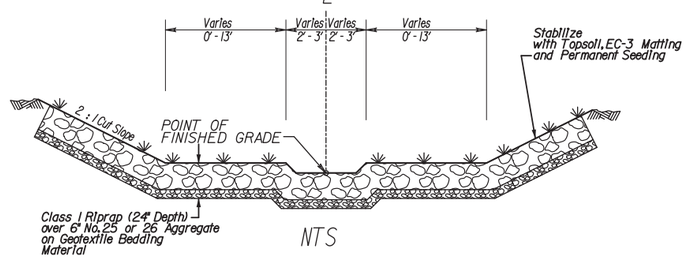
Ending chain STREAM description

STREAM RELOCATION PROFILE



STREAM RELOCATION TYPICAL SECTION

Const. ℄



NTS

STATION	TO	STATION
10+25.00		11+15.22
12+11.22		12+75.00

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	8(2)

P.A.C. PLANS

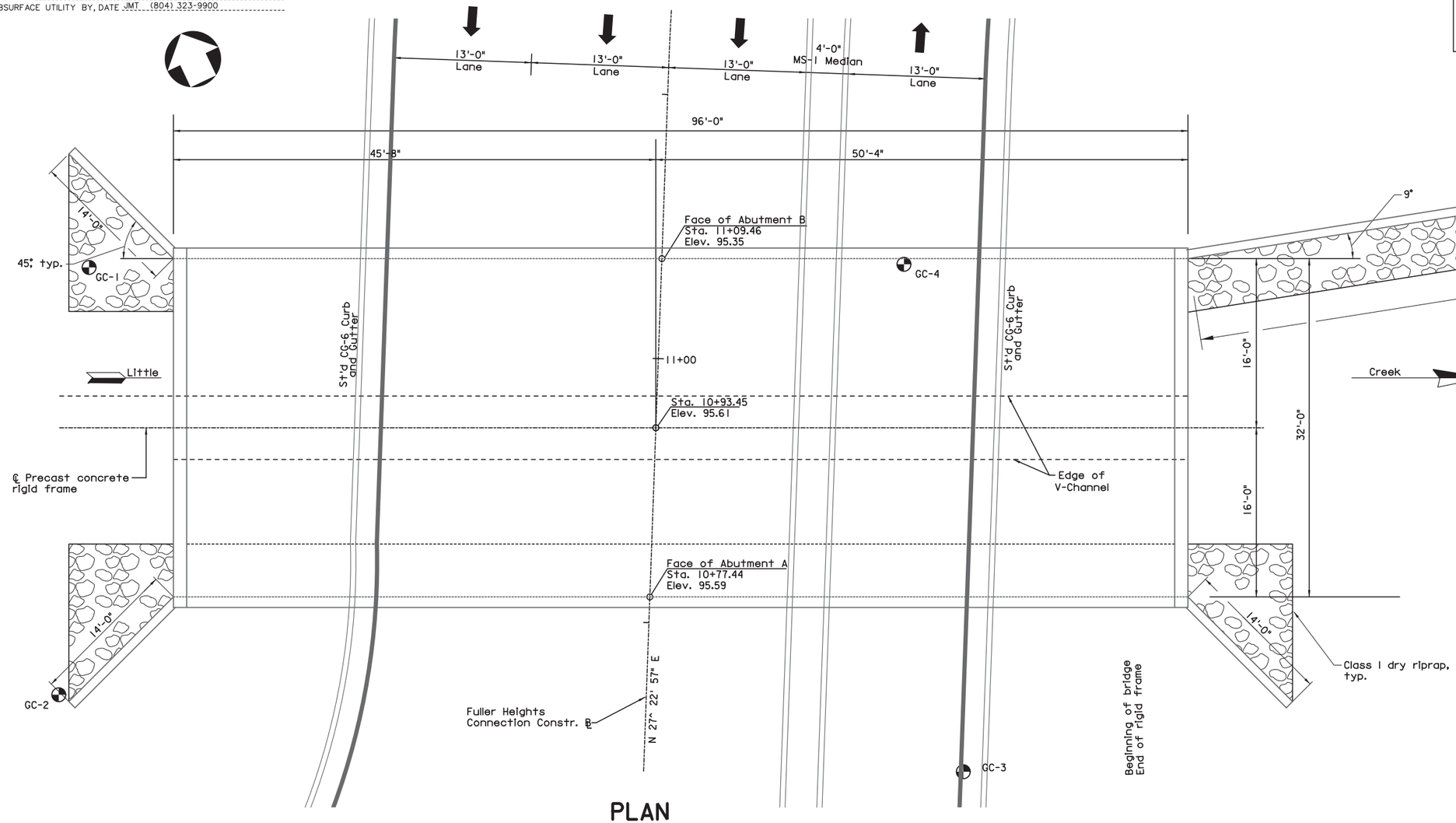
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	9(1)

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



PLAN

Scale: 3/16" = 1'-0"

GENERAL NOTES:

The original approved sheet, including original signatures, is filed in the County's Office. Any misuse of electronic files, including scanned signatures, is illegal. Violators will be prosecuted to the full extent of the applicable laws.

Span layout: 32'-0"

Capacity: HL-93 loading.

Drainage area: 1.05 sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Interim Specifications Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016, including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

Concrete in precast concrete rigid frame members shall be Class A5. Concrete in all other members shall be Class A3.

Low permeability concrete shall be used in this project.

Permeability testing does not apply to this project.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60 except for reinforcing steels noted as CRR (corrosion resistant reinforcing) which shall conform to the applicable specifications noted in the special provision. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

Corrosion resistant reinforcing (CRR) steel shall be used in the precast concrete rigid frame members including headwalls and wingwalls.

Corrosion resistant reinforcing (CRR) steels shall conform to low carbon/chromium, listed in the special provision. The minimum yield strength shall be: 100 ksi for low carbon/chromium.

Footings for precast concrete rigid frame members shall bear on firm material. Footings for precast concrete rigid frame members shall be designed for an allowable bearing pressure of 3,000 lbs./sq. ft. min. corresponding to a nominal design bearing value for Group I loads based on AASHTO Standard Specifications for Highway Bridges.

◔ Denotes boring location. For boring logs, see Sheets No. 9(3) and 9(4).

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	9(1)

P.A.C. PLANS

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Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
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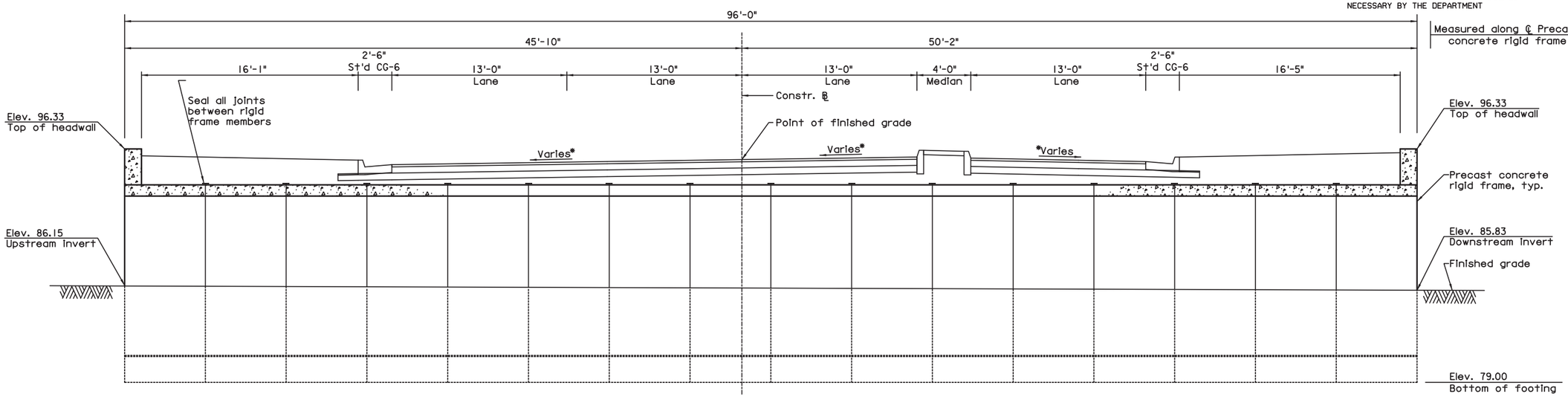
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	9(2)

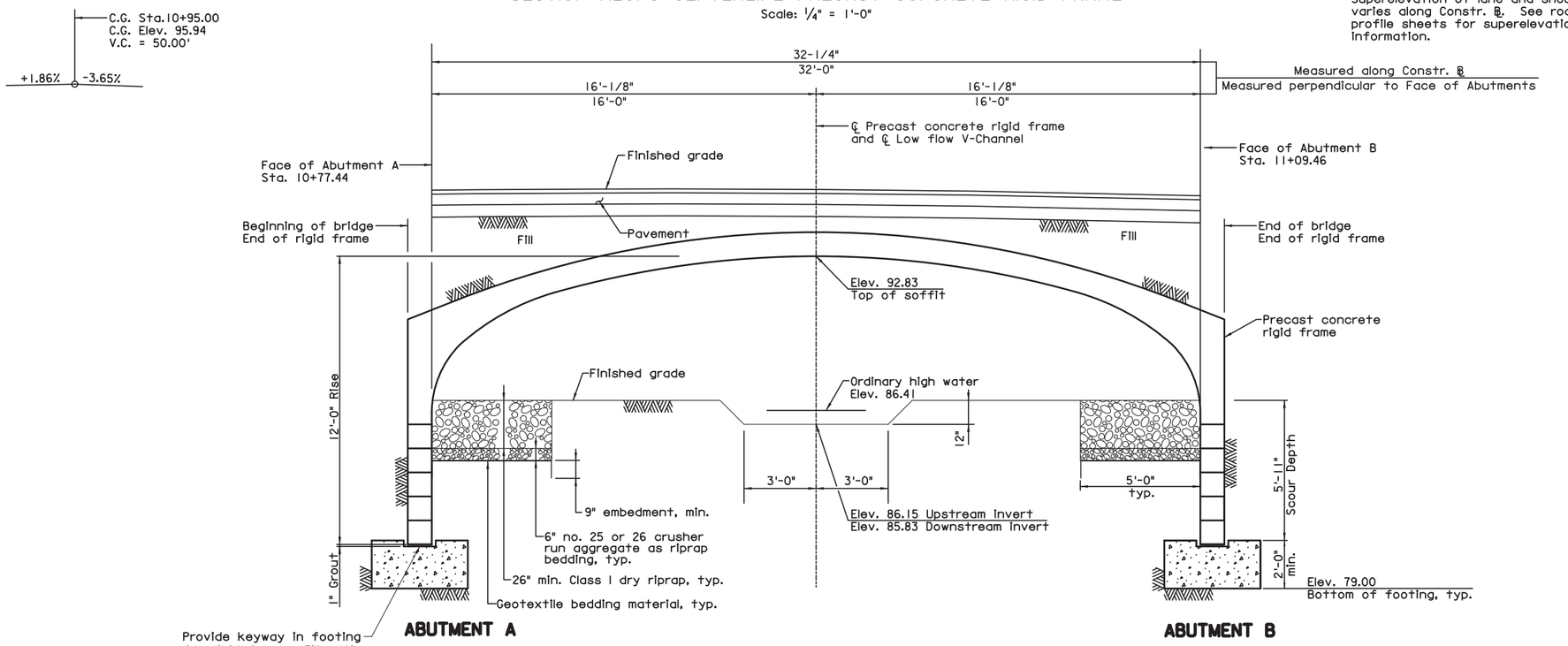
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SECTION ALONG CENTERLINE PRECAST CONCRETE RIGID FRAME

Scale: 1/4" = 1'-0"

*Superelevation of lane and shoulder varies along Constr. ℄. See road profile sheets for superelevation information.



SECTION PERPENDICULAR TO FACE OF ABUTMENTS

Scale: 3/8" = 1'-0"

PROJECT	SHEET NO.
VDOT 0001-076-995 PWC 1006-4N0-0	9(2)

P.A.C. PLANS

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PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	9(3)

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

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

Virginia Department of Transportation

PROJECT #: 001-076-995, C501, 1006-4N0-0
LOCATION: Fuller Heights Road
STRUCTURE: Precast Arch Bridge

GC-1
PAGE 1 OF 1

STATION: 11+07 OFFSET: 60.0 ft. Left
LATITUDE: 38.544917 °N LONGITUDE: -77.333422 °W
SURFACE ELEVATION: 93.6 ft COORD. DATUM: NAD 83

Date(s) Drilled: 8/31/2011 - 8/31/2011
Drilling Method(s): 2.25" I.D. HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Connelly and Associates, Inc. (J. Martinez)
Logger: GeoConcepts Engineering (W. Richards)

GROUND WATER
FIRST ENCOUNTERED AT: 8.5 ft DEPTH
STABILIZED AT: 3.0 ft (90.6ft ELEV.) AFTER 24 HRS

DEPTH (ft)	ELEVATION (ft)	STANDARD PENETRATION TEST HAMMER BLOWS	SOIL RECOVERY (%)	SAMPLE LEGEND	SAMPLE INTERVAL	CORE RECOVERY (%)	ROCK QUALITY DESIGNATION	DIP STRATA	DIP JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LAB DATA LL	LAB DATA PI	LAB DATA MOISTURE CONTENT (%)
											0.0 / 93.6 \ Topsoil = 4 inches **TOPS**			
											0.3 / 93.3 Brown, clayey sand possible FILL, with gravel, loose, moist **FL**			17.6
														27.2
											5.0 / 88.6 Brown, sandy lean CLAY, soft, moist **CL**			36.0
											8.5 / 85.1 Brown, clayey SAND, medium dense, wet **SC**			23.8
														26.1
														26.8
											23.5 / 70.1 Gray, sandy fat CLAY, very stiff, moist **CH**			39.5
											28.5 / 65.1 Gray, clayey SAND, medium dense, moist **SC**			32.6
											30.0 / 63.6 BOTTOM OF BORING AT 30.0 FT.			

REMARKS: Cave-in depth: 3.4 ft.
Offset 8.5 ft. west and 8.5 north.

PAGE 1 OF 1
GC-1

SPT_LOG FULLER HEIGHTS ROAD - VDOT LOGS.GPJ 8.3(002.051)908:11/4/11

Virginia Department of Transportation

PROJECT #: 001-076-995, C501, 1006-4N0-0
LOCATION: Fuller Heights Road
STRUCTURE: Precast Arch Bridge

GC-2
PAGE 1 OF 1

STATION: 10+66 OFFSET: 54.0 ft. Left
LATITUDE: 38.544821 °N LONGITUDE: -77.333493 °W
SURFACE ELEVATION: 93.6 ft COORD. DATUM: NAD 83

Date(s) Drilled: 9/1/2011 - 9/1/2011
Drilling Method(s): 2.25" I.D. HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Connelly and Associates, Inc. (J. Martinez)
Logger: GeoConcepts Engineering (W. Richards)

GROUND WATER
FIRST ENCOUNTERED AT: 8.5 ft DEPTH
STABILIZED AT: 5.0 ft (88.6ft ELEV.) AFTER 24 HRS

DEPTH (ft)	ELEVATION (ft)	STANDARD PENETRATION TEST HAMMER BLOWS	SOIL RECOVERY (%)	SAMPLE LEGEND	SAMPLE INTERVAL	CORE RECOVERY (%)	ROCK QUALITY DESIGNATION	DIP STRATA	DIP JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LAB DATA LL	LAB DATA PI	LAB DATA MOISTURE CONTENT (%)
											0.0 / 93.6 \ Topsoil = 4 inches **TOPS**			
											0.3 / 93.3 Brown, clayey sand FILL, loose, moist **FL**			18.2
														31.4
											5.0 / 88.6 Gray and orange, clayey SAND, wth gravel, very loose, wet **SC**			37.2
											8.5 / 85.1 Brown and gray, sandy lean CLAY, very stiff, wet **CL**			23.0
											13.5 / 80.1 Brown, clayey SAND, medium dense, wet **SC**			24.0
											18.5 / 75.1 SAME: orange and brown below 18.5 ft.			24.8
														26.4
											28.5 / 65.1 Orange and brown, sandy fat CLAY, very stiff, moist **CH**			18.4
											30.0 / 63.6 BOTTOM OF BORIING AT 30.0 FT.			

REMARKS: Cave-in depth: 7.8 ft.
Offset 3.0 north.

PAGE 1 OF 1
GC-2

SPT_LOG FULLER HEIGHTS ROAD - VDOT LOGS.GPJ 8.3(002.051)908:11/4/11

Notes:

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the County in establishing design controls for the project. The County has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The County does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the County does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the County, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

A geotechnical engineering report has been prepared for this project by GeoConcepts Engineering, Inc. This report is for informational purposes only and should not be considered part of the contract documents. The opinions expressed represent the Geotehnical Engineer's interpretation of the subsurface conditions, tests, and the results of analyses conducted. Should the data contained in this report not be adequate for the Contractor's purposes, the Contractor may make, before bidding, independent exploration, tests and analyses at no cost to the County. This report may be examined by bidders at the County's Office or copies may be obtained from the County at nominal charge.

The Standard Penetration Test samples were obtained using an automatic trip hammer (ATH) rather than the standard safety hammer. The energy applied to the split-spoon sampler using the ATH is about 30% greater than that applied using the standard safety hammer. The hammer blows shown on the boring logs are uncorrected for the higher energy.

For boring locations, see Plan on Sheet No. 9(3).

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	9(3)

P.A.C. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER Gladis Arboleda, PWC DOT (703) 792-5276
SURVEYED BY, DATE JMT (804) 323-9900
DESIGN BY JMT (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	619	VDOT 0001-076-995 RW-201,C-501 PWC 1006-4N0-0	9(4)

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

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

Virginia Department of Transportation

PROJECT #: 001-076-995, C501, 1006-4N0-0
LOCATION: Fuller Heights Road
STRUCTURE: Precast Arch Bridge

GC-3 PAGE 1 OF 1

STATION: 10+62 OFFSET: 42.0 ft. Right
LATITUDE: 38.533588 °N LONGITUDE: -77.333235 °W
SURFACE ELEVATION: 91.4 ft COORD. DATUM: NAD 83

FIELD DATA

Date(s) Drilled: 9/1/2011 - 9/1/2011
Drilling Method(s): 2.25" I.D. HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Connelly and Associates, Inc. (J. Martinez)
Logger: GeoConcepts Engineering (W. Richards)
GROUND WATER
▽ FIRST ENCOUNTERED AT: 8.5 ft DEPTH
▼ STABILIZED AT: 3.8 ft (87.6ft ELEV.) AFTER 24 HRS

LAB DATA

DEPTH (ft)	E.ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP STRATA	ROCK: DIP JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LAB: LIQUID LIMIT LL	LAB: PLASTICITY INDEX PI	LAB: MOISTURE CONTENT (%)
					0						0.0 / 91.4 Topsoil = 3 inches **TOPS**			
					2						0.3 / 91.1 Brown, sandy lean clay FILL, firm, moist **CL**			28.1
					2.5						2.5 / 88.9 SAME: with rootlets, soft below 2.5 ft.			33.4
					4									
					5						5.0 / 86.4 Gray and brown, clayey SAND, medium dense, moist **SC**			25.7
					6.5									
					8.5									25.5
					10									
					13.5									24.9
					15									
					18.5									30.1
					20									
					23.5									23.2
					25									
					28.5						28.5 / 62.9 Gray, sandy fat CLAY, very stiff, moist **CH**			28.9
					30						30.0 / 61.4 BOTTOM OF BORING AT 30.0 FT.			

REMARKS: Cave-in depth: 9.2 ft.
Offset 8.5 ft. south and 8.5 ft. east.

PAGE 1 OF 1 **GC-3**

Virginia Department of Transportation

PROJECT #: 001-076-995, C501, 1006-4N0-0
LOCATION: Fuller Heights Road
STRUCTURE: Precast Arch Bridge

GC-4 PAGE 1 OF 1

STATION: 11+10 OFFSET: 24.0 ft. Right
LATITUDE: 38.533713 °N LONGITUDE: -77.333179 °W
SURFACE ELEVATION: 93.7 ft COORD. DATUM: NAD 83

FIELD DATA

Date(s) Drilled: 8/31/2011 - 8/31/2011
Drilling Method(s): 2.25" I.D. HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Connelly and Associates, Inc. (J. Martinez)
Logger: GeoConcepts Engineering (W. Richards)
GROUND WATER
▽ FIRST ENCOUNTERED AT: 8.5 ft DEPTH
▼ STABILIZED AT: 6.0 ft (87.7ft ELEV.) AFTER 24 HRS

LAB DATA

DEPTH (ft)	E.ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP STRATA	ROCK: DIP JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LAB: LIQUID LIMIT LL	LAB: PLASTICITY INDEX PI	LAB: MOISTURE CONTENT (%)
					0						0.0 / 93.7 Topsoil = 6 inches **TOPS**			25.0
					2						0.5 / 93.2 Brown, clayey sand possible FILL, loose, moist **FL**			15.4
					2.5						1.5 / 92.2 Light brown, clayey SAND, loose, moist **SC**			
					4						2.5 / 91.2 Brown, poorly graded SAND, with clay, loose, moist **SP**	40	21	31.4
					5						5.0 / 88.7 Gray, clayey SAND, very loose, moist **SC**			
					6.5									
					8.5						8.5 / 85.2 Brown, poorly graded GRAVEL, wth clay and sand, dense, moist **GP-GC**			15.3
					10									
					13.5						13.5 / 80.2 Brown, clayey SAND, medium dense, moist **SC**			23.0
					15									
					18.5						18.5 / 75.2 SAME: gray below 18.5 ft.			27.0
					20									
					23.5						23.5 / 70.2 Gray, sandy fat CLAY, very stiff, moist **CH**			29.9
					25									
					28.5									26.0
					30						30.0 / 63.7 BOTTOM OF BORING AT 30.0 FT.			

REMARKS: Cave-in depth: 30.0 ft.
Offset 2.0 ft west.
Temporary standpipe installed.

PAGE 1 OF 1 **GC-4**

Notes:

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the County in establishing design controls for the project. The County has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The County does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the County does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

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A geotechnical engineering report has been prepared for this project by GeoConcepts Engineering Inc. This report is for informational purposes only and should not be considered part of the contract documents. The opinions expressed represent the Geotehnical Engineer's interpretation of the subsurface conditions, tests, and the results of analyses conducted. Should the data contained in this report not be adequate for the Contractor's purposes, the Contractor may make, before bidding, independent exploration, tests and analyses at no cost to the County. This report may be examined by bidders at the County's Office or copies may be obtained from the County at nominal charge.

The Standard Penetration Test samples were obtained using an automatic trip hammer (ATH) rather than the standard safety hammer. The energy applied to the split-spoon sampler using the ATH is about 30% greater than that applied using the standard safety hammer. The hammer blows shown on the boring logs are uncorrected for the higher energy.

For boring locations, see Plan on Sheet No. 9(3).

	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	9(4)

P.A.C. PLANS

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JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
SURVEYED BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	I0(1)

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

SIGNING AND PAVEMENT MARKING GENERAL NOTES AND LEGEND

INDEX OF SHEETS

GENERAL NOTES - SIGNING

1. The Removal or Modification of Existing Sign Panels, Structures, or Foundations Shall Conform with the Specifications.
2. New Materials and Items Required to Complete the Removal or Modification of Existing Items Shall be Submitted to the Engineer for Review and Approval in Accordance with the Specifications.
3. All Existing and Proposed Sign Locations are Approximate and Shall be Field Verified by the Contractor. All Proposed Sign Locations Shall be Staked by the Contractor and Approved by the Engineer.

GENERAL NOTES - PAVEMENT MARKING

1. All Pavement Markings, Where Matching to Existing, Shall Be Done In a Manner Approved by the Engineer.
2. Existing Pavement Markings that Conflict with the Proposed Markings Shown Herein Shall be Eradicated.
3. All Travel Lanes Shall be Marked to be 12' Wide Unless Otherwise Noted or as Directed by the Engineer.
4. Stop Lines Shall Be 24" In Width and Shall be Located as Shown on the Plans.

STANDARD SIGN LEGEND

PLAN ITEM	PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Single Post Sign Support		
Double Post Sign Support		
Triple Post Sign Support		
Flashing Beacon		
O/H Cantilever Sign Support		
O/H Span Sign Support		

SIGN CALL-OUTS

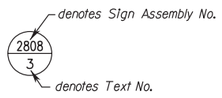
Existing Sign to Remain or to be Relocated — 95

Existing Sign to be Removed — 95

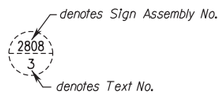
Proposed Sign Panel — 95

SIGN LABELS

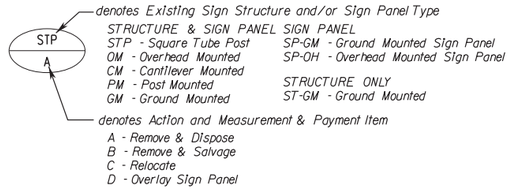
Proposed Sign Assemblies



Relocated Sign Assemblies



Sign Relocation or Payable Sign Disposal/Salvage



Signs noted on plans to be removed that do not have an accompanying sign label shall not be measured separately for payment. Removal and disposal for such signs shall be incidental to other contract items.

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, WHITE, 4" WIDTH 10' LONG, 30' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH
- (D) TYPE B, CLASS I, YELLOW, 4" WIDTH, DOUBLE LINE, SEPARATED BY A 6" SPACE
- (E) TYPE B, CLASS I, WHITE, 24" WIDTH
- (F) TYPE B, CLASS I, WHITE, 24" WIDTH @ 45° [INSTALL PER STANDARD PM-5]
- (G) TYPE B CLASS I, WHITE, ELONGATED TURN ARROW
- (H) TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 4' SPACE
- (J) TYPE B, CLASS I, WHITE, 10" WIDTH, 3' LONG, 3' SPACE
- (K) TYPE B CLASS I, WHITE, SYMBOL (ONLY)
- (L) REMOVAL OF EXISTING PAVEMENT MARKINGS
- (M) TYPE B, CLASS I, YELLOW, 12" WIDTH

R/W PLANS

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T3 DESIGN CORPORATION
10340 DEMOCRACY LN
SUITE 305
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN
INDEX OF SHEETS, GENERAL NOTES, & LEGENDS
PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
X	VDOT 0001-076-995 PWC 1006-4N0-0	I0(1)

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
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DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

SIGNING AND PAVEMENT MARKING
SUMMARY OF QUANTITIES

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	10(2)

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

T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER

TO BE INCLUDED IN THE NEXT SUBMISSION

R/W PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

T3 DESIGN CORPORATION
10340 DEMOCRACY LN
SUITE 305
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN
SUMMARY OF QUANTITIES
PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
X	VDOT 0001-076-995 PWC 1006-4N0-0	10(2)

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
SURVEYED BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

SIGNING AND PAVEMENT MARKING

SIGN SCHEDULE
PROPOSED SIGNS

T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	101(2A)

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

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (SF): per ASSEMBLY	SIGN PANEL AREA (SF): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
101	5.1	SHARE THE ROAD	W11-1 W16-1P	30" 24"	30" 30"	1	22.50 SF	22.50 SF	STP-1 TYPE C (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
102	5.2	DO NOT BLOCK INTERSECTION / ONE WAY	R10-7 R6-1R R4-7	24" 36" 24"	30" 12" 30"	1	42 SF	42 SF	STP-1 TYPE E (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
103	5.3,7.2, 7.9,7.15, 7.16,7.21, 7.25		W11-2 W16-7PL	30" 24"	30" 12"	7	15.75 SF	110.25 SF	STP-1 TYPE C (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
104	5.4		W11-2 W16-7PR	30" 24"	30" 12"	1	15.75 SF	15.75 SF	STP-1 TYPE C (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
105	5.5	LANE ENDS	R3-16a	24"	30"	1	5 SF	5 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
106	6.2,6.3,6.4		OM4-2	18"	18"	3	2.25 SF	6.75 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
107	7.1	NO OUTLET	W14-2	30"	30"	1	6.25 SF	6.25 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
108	7.3,7.4,7.23,7.24		W1-8(1)	36"	24"	4	6 SF	24 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
109	7.5,7.8,7.14,7.22	YIELD	R1-2 W2-6	24" 24"	24" 24"	4	16 SF	64 SF	STP-1 TYPE C (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
110	7.6,7.11,7.12,7.19		W2-6	24"	24"	4	4 SF	16 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
111	7.7	↑ TO Fuller Rd Fuller Heights Rd →	D1-2	96"	30"	1	20 SF	20 SF	STP-1 TYPE A (2) 2.5 X12 GA STEEL SQUARE TUBE POSTS	TYPE B FOUNDATION
112	7.10	↑ Fuller Heights Rd ← TO Fuller Rd Old Triangle Rd →	D1-1(1)	96"	42"	1	28 SF	28 SF	STP-1 TYPE A (2) 2.5 X12 GA STEEL SQUARE TUBE POSTS	TYPE B FOUNDATION
113	7.13	← Old Triangle Rd TO Fuller Rd →	D1-2	90"	30"	1	18.75 SF	18.75 SF	STP-1 TYPE A (2) 2 X14 GA STEEL SQUARE TUBE POSTS	TYPE A FOUNDATION
114	7.17	YIELD	R1-2	24"	24"	1	4 SF	4 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
115	7.18		R4-7	24"	30"	1	5 SF	5 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
116	7.20	↑ Old Triangle Rd Fuller Heights Rd →	D1-2	96"	30"	1	20 SF	20 SF	STP-1 TYPE A (2) 2.5 X12 GA STEEL SQUARE TUBE POSTS	TYPE B FOUNDATION
117	4.2	RIGHT LANE MUST TURN RIGHT	R3-7R	30"	30"	1	6.25 SF	6.25 SF	STP-1 TYPE A (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION

NOTES:

1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) IF APPLICABLE, SEE SHEET 2D FOR NON-STANDARD TYPE VA AND VIA SIGN STRUCTURE DETAILS.

R/W PLANS

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T3 DESIGN CORPORATION
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TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN
SIGN SCHEDULE
PRINCE WILLIAM COUNTY

N.T.S	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	101(2A)

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Engineering A Brighter Future
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PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
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DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

SIGNING AND PAVEMENT MARKING
SIGN SCHEDULE
EXISTING SIGNS TO BE RELOCATED

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	10(2B)

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

T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (sf.): per ASSEMBLY	ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
201	3J		N/A	72"	48"	1	24 SF	24 SF	STP-1 TYPE A (2) 2.5 X12 GA STEEL SQUARE TUBE POSTS	TYPE B FOUNDATION
202	4J		M1-V1a M6-1R	24" 21"	24" 15"	1	12J9 SF	12J9 SF	STP-1 TYPE C (1) 2 X14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
203	6J		N/A	24"	18"	1	3 SF	3 SF	ATTACHED TO PROPOSED SIGN 7.20	N/A

NOTES:

1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) IF APPLICABLE, SEE SHEET 2D FOR NON-STANDARD TYPE VA AND VIA SIGN STRUCTURE DETAILS.

R/W PLANS

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TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN
SIGN SCHEDULE
PRINCE WILLIAM COUNTY

N.T.S	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	10(2B)

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
SURVEYED BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	I0(2C)

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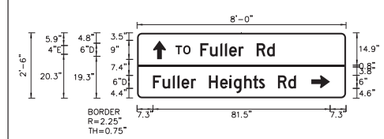
T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER

SIGNING AND PAVEMENT MARKING
SIGN DETAILS

SIGN DETAIL
1:25



SIGN NUMBER	7.7
WIDTH x HGHT.	8'-0" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground Mounted
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

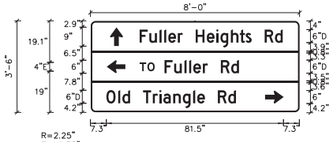
SYMBOL	ROT	X	Y	WID	HT
AR_type D	180	7.3	18	6	9
AR_type D	90	80.2	4.7	6	9

Panel Style: guide_con_circular.sst
Dimensions are in inches,tenths
Letter locations are panelledge to lower left corner

LETTER POSITIONS (X)

																							LENGTH	SERIES/SIZE
T	O																							E 2000
17.7	21.3																						7	4
F	u	l	l	e	r		R	d																D 2000
29.1	33.6	38.3	40.5	42.4	46.8	49	55	59.8															34.4	6/4.5
F	u	l	l	e	r		H	e	i	g	h	t	s		R	d								D 2000
7.3	11.7	16.4	18.6	20.5	24.9	27.1	33.1	38.2	42.6	44.5	49.3	53.4	56.1	58.9	64.8	69.5							65.9	6/4.5

SIGN DETAIL
1:25



SIGN NUMBER	7.10
WIDTH x HGHT.	8'-0" x 3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground Mounted
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

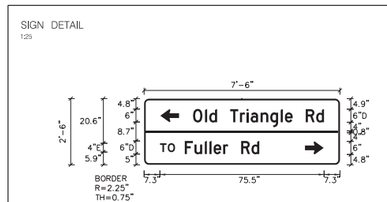
SYMBOL	ROT	X	Y	WID	HT
AR_type D	180	9	30.5	6	9
AR_type D	270	7.4	18	6	9
AR_type D	90	80.3	4.1	6	9

Panel Style: d1-3d.sst
Dimensions are in inches,tenths
Letter locations are panelledge to lower left corner

LETTER POSITIONS (X)

																							LENGTH	SERIES/SIZE
F	u	l	l	e	r		H	e	i	g	h	t	s		R	d								D 2000
22.6	27.1	31.8	33.9	35.8	40.2	42.4	48.4	53.5	57.9	59.8	64.6	68.7	71.4	74.2	80.2	84.9							65.9	6/4.5
T	O																							E 2000
22.6	26.2																						7	4
F	u	l	l	e	r		R	d																D 2000
34.1	38.5	43.2	45.4	47.3	51.7	54	60	64.7															34.3	6/4.5
O	l	d		T	r	i	a	n	g	l	e		R	d										D 2000
7.3	12.8	14.7	18.2	24.2	28.7	31.7	33.5	38.1	42.5	47.2	49.2	52.7	58.6	63.4									59.6	6/4.5

SIGN DETAIL
1:25



SIGN NUMBER	7.13
WIDTH x HGHT.	7'-6" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground Mounted
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

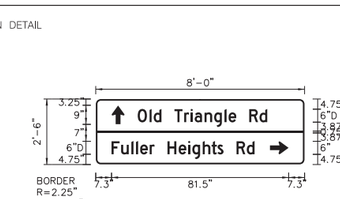
SYMBOL	ROT	X	Y	WID	HT
AR_type D	270	7.4	19.7	6	9
AR_type D	270	73.9	4.8	6	9

Panel Style: guide_con_circular.sst
Dimensions are in inches,tenths
Letter locations are panelledge to lower left corner

LETTER POSITIONS (X)

																							LENGTH	SERIES/SIZE
O	l	d		T	r	i	a	n	g	l	e		R	d										D 2000
22.5	28	30	33.6	39.6	44.1	47.1	49	53.6	58	62.9	64.8	68.4	74.4	79.1									60.3	6/4.5
T	O																							E 2000
7.3	10.9																						7	4
F	u	l	l	e	r		R	d																D 2000
18.7	23.2	27.9	30.1	32	36.4	38.7	44.7	49.4															34.3	6/4.5

SIGN DETAIL
1:25



SIGN NUMBER	7.20
WIDTH x HGHT.	8'-0" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground Mounted
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_type D	360	37.4	39.5	6	9
AR_type D	270	110.2	25.7	6	9

Panel Style: guide_con_circular.sst
Dimensions are in inches,tenths
Letter locations are panelledge to lower left corner

LETTER POSITIONS (X)

																							LENGTH	SERIES/SIZE
O	l	d		T	r	i	a	n	g	l	e		R	d										D 2000
49.5	54.9	56.8	60.4	66.3	70.8	73.8	75.6	80.2	84.6	89.4	91.3	94.8	100.8	105.5									59.6	6/4.5
F	u	l	l	e	r		H	e	i	g	h	t	s		R	d								D 2000
37.4	41.8	46.5	48.7	50.6	54.9	57.2	63.2	68.3	72.7	74.6	79.3	83.5	86.1	88.9	94.9	99.6							65.8	6/4.5

R/W PLANS

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TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN
SIGN DETAILS
PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
X	VDOT 0001-076-995 PWC 1006-4N0-0	I0(2C)

JOHNSON, MIRMIRAN & THOMPSON
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9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV. (703) 792-6826
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DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	101(3)

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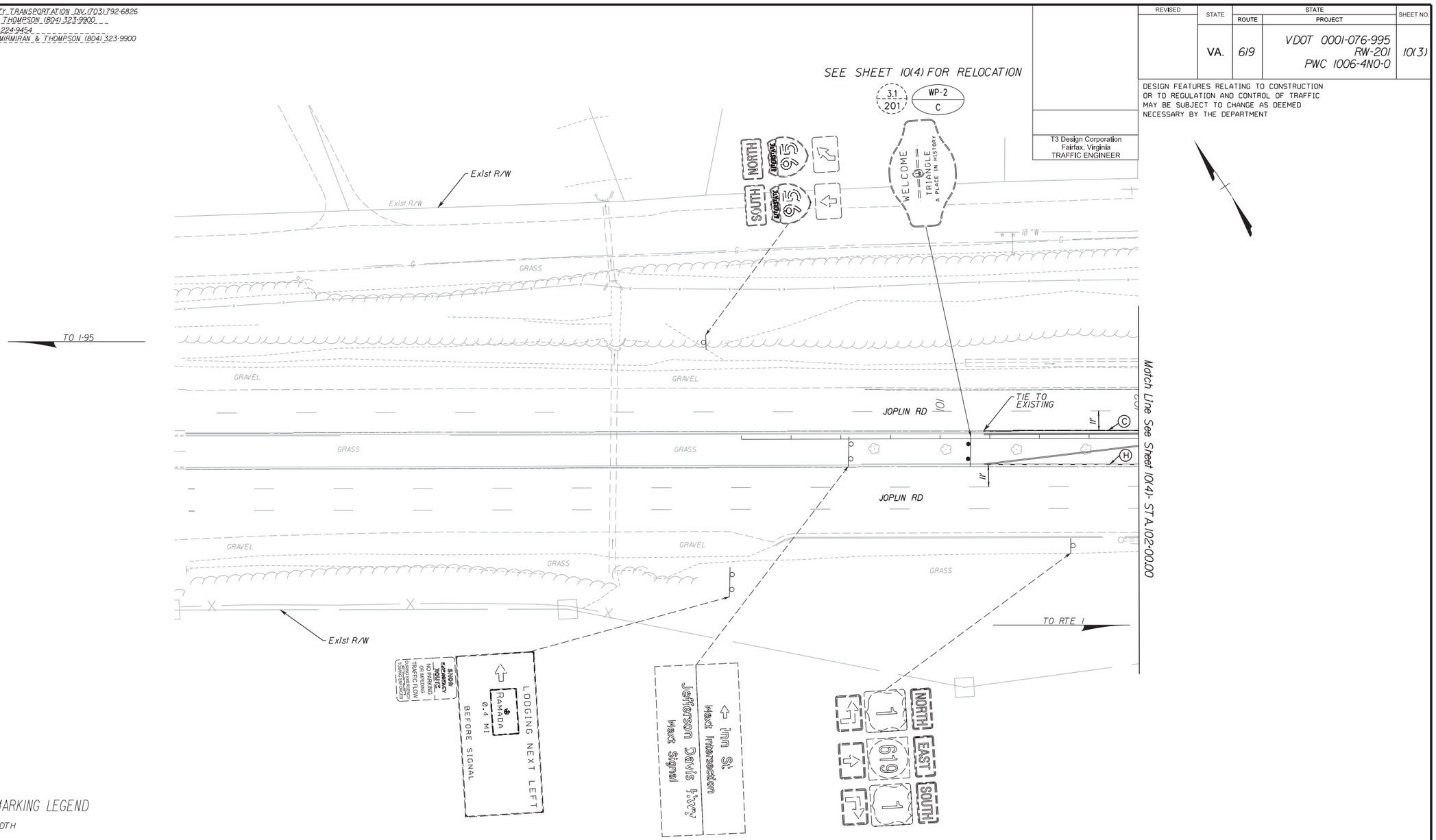
TRAFFIC ENGINEER



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, WHITE, 4" WIDTH 10' LONG, 30' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH
- (D) TYPE B, CLASS I, YELLOW, 4" WIDTH, DOUBLE LINE, SEPARATED BY A 6" SPACE
- (E) TYPE B, CLASS I, WHITE, 24" WIDTH
- (F) TYPE B, CLASS I, WHITE, 24" WIDTH @ 45° (INSTALL PER STANDARD PM-5)
- (G) TYPE B CLASS I, WHITE, ELONGATED TURN ARROW
- (H) TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 4' SPACE
- (J) TYPE B, CLASS I, WHITE, 10" WIDTH, 3' LONG, 3' SPACE
- (K) TYPE B CLASS I, WHITE, SYMBOL (ONLY)
- (L) REMOVAL OF EXISTING PAVEMENT MARKINGS
- (M) TYPE B, CLASS I, YELLOW, 12" WIDTH

SCALE
0 25' 50'

R/W PLANS

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TRAFFIC CONTROL DEVICE PLANS

SIGNING AND MARKING PLAN

PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
X	VDOT 0001-076-995 PWC 1006-4N0-0	101(3)

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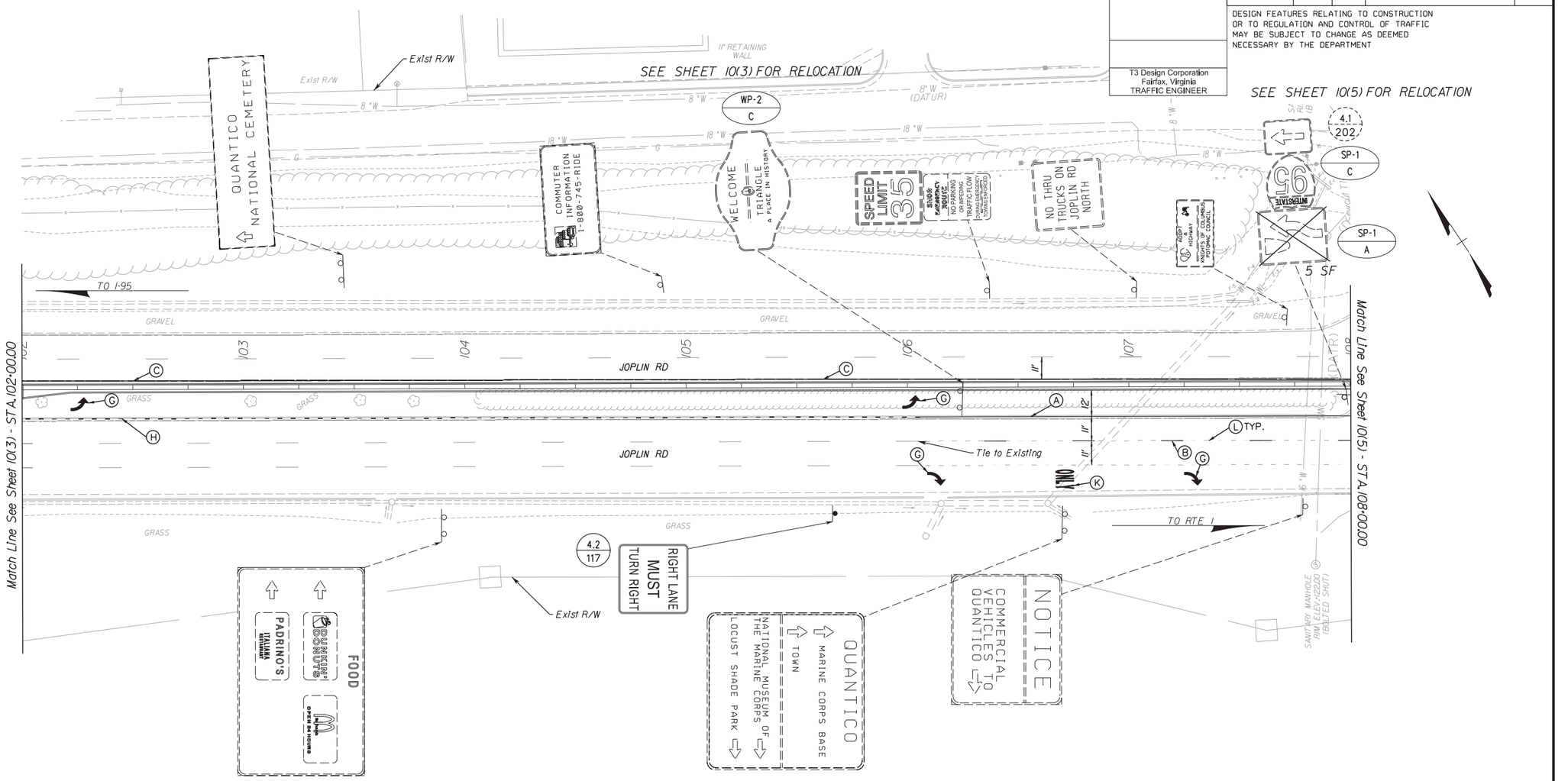

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, WHITE, 4" WIDTH 10' LONG, 30' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH
- (D) TYPE B, CLASS I, YELLOW, 4" WIDTH, DOUBLE LINE, SEPARATED BY A 6" SPACE
- (E) TYPE B, CLASS I, WHITE, 24" WIDTH
- (F) TYPE B, CLASS I, WHITE, 24" WIDTH @ 45° (INSTALL PER STANDARD PM-5)
- (G) TYPE B CLASS I, WHITE, ELONGATED TURN ARROW
- (H) TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 4' SPACE
- (J) TYPE B, CLASS I, WHITE, 10" WIDTH, 3' LONG, 3' SPACE
- (K) TYPE B CLASS I, WHITE, SYMBOL (ONLY)
- (L) REMOVAL OF EXISTING PAVEMENT MARKINGS
- (M) TYPE B, CLASS I, YELLOW, 12" WIDTH

SCALE
0 25' 50'

R/W PLANS

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TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN

PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
X	VDOT 0001-076-995 PWC 1006-4N0-0	I0(4)

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PROJECT MANAGER *PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826*
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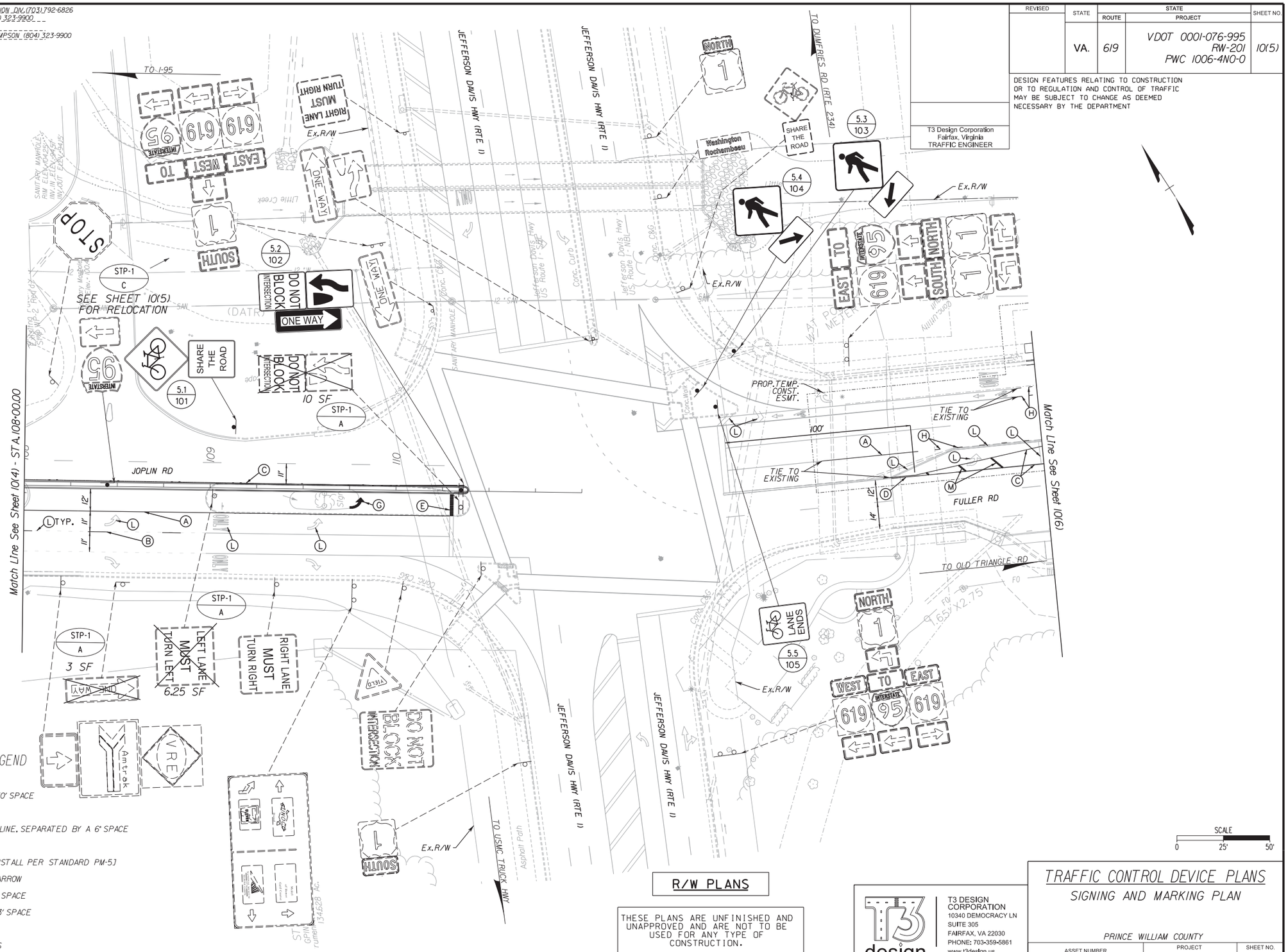
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	10(5)

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

T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, WHITE, 4" WIDTH 10' LONG, 30' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH
- (D) TYPE B, CLASS I, YELLOW, 4" WIDTH, DOUBLE LINE, SEPARATED BY A 6" SPACE
- (E) TYPE B, CLASS I, WHITE, 24" WIDTH
- (F) TYPE B, CLASS I, WHITE, 24" WIDTH @ 45° [INSTALL PER STANDARD PM-5]
- (G) TYPE B CLASS I, WHITE, ELONGATED TURN ARROW
- (H) TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 4' SPACE
- (J) TYPE B, CLASS I, WHITE, 10" WIDTH, 3' LONG, 3' SPACE
- (K) TYPE B CLASS I, WHITE, SYMBOL (ONLY)
- (L) REMOVAL OF EXISTING PAVEMENT MARKINGS
- (M) TYPE B, CLASS I, YELLOW, 12" WIDTH

R/W PLANS

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SCALE 0 25' 50'

T3 DESIGN CORPORATION
10340 DEMOCRACY LN
SUITE 305
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

TRAFFIC CONTROL DEVICE PLANS

SIGNING AND MARKING PLAN

PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
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JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
SURVEYED BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

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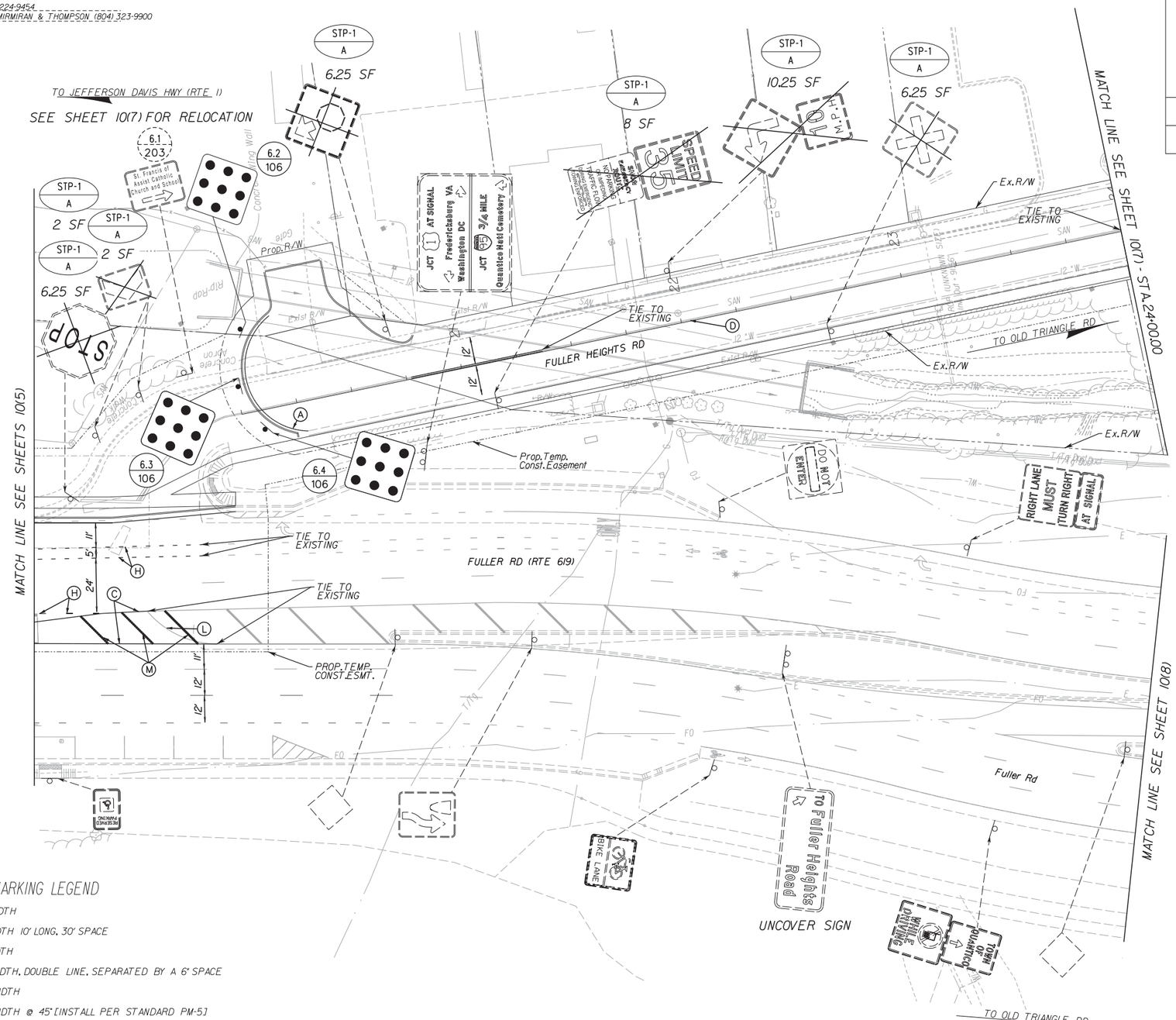

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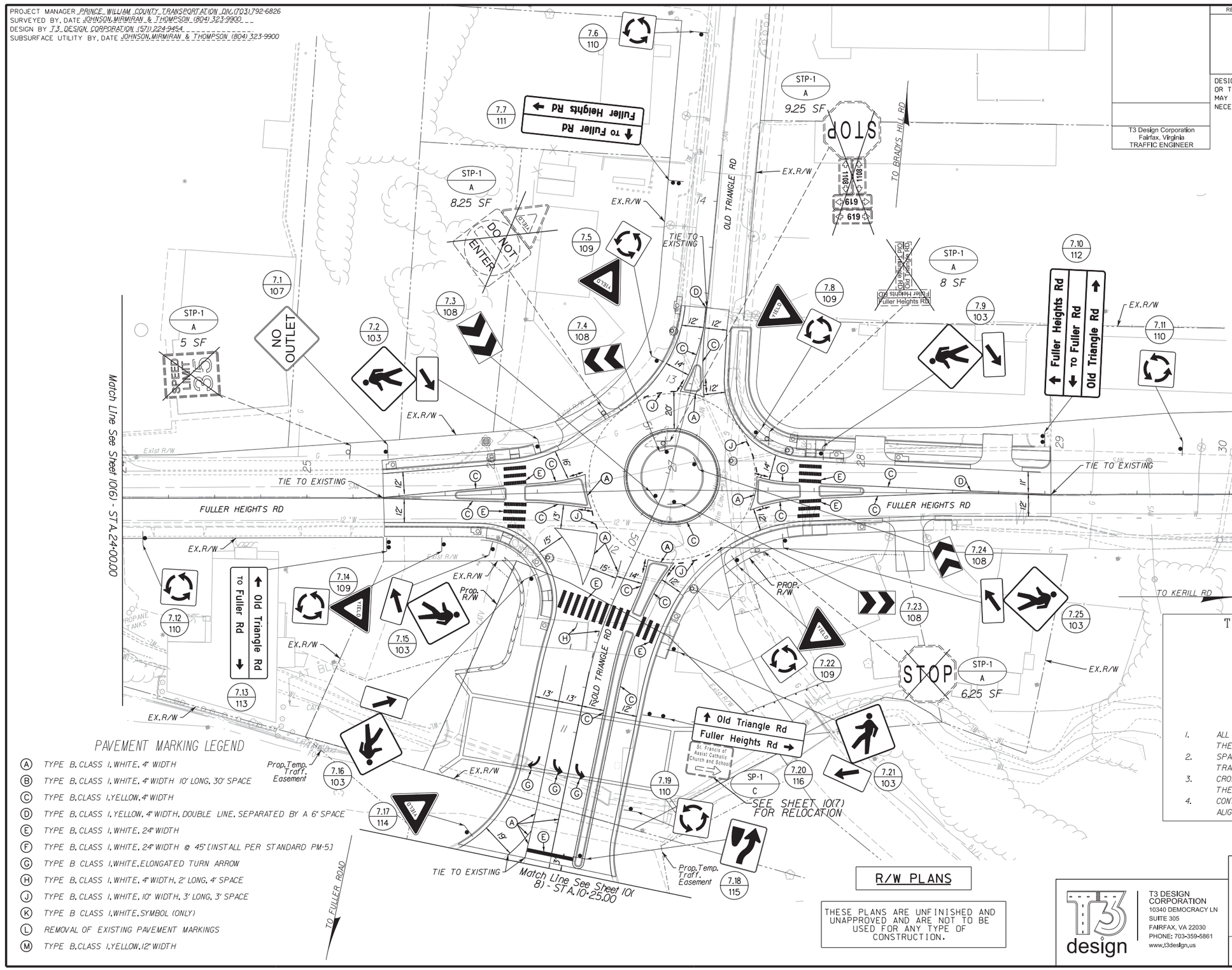
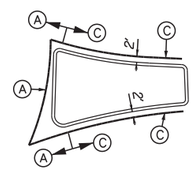
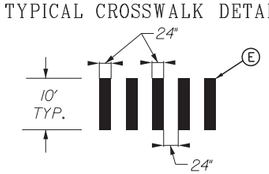


TYPICAL SPLITTER ISLAND DETAIL



TYPICAL CROSSWALK DETAIL



1. ALL CROSSWALK MARKINGS SHALL BE WHITE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
2. SPACE BETWEEN MARKINGS SHOULD BE PLACED IN WHEEL TRACKS OF EACH LANE.
3. CROSSWALK MARKINGS SHALL BE INSTALLED PARALLEL TO THE MAJOR FLOW OF TRAFFIC.
4. CONTRACTOR SHALL INSTALL PROPOSED CROSSWALKS ALIGNED WITH THE CENTER OF THE RAMP.

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TRAFFIC CONTROL DEVICE PLANS
SIGNING AND MARKING PLAN

PRINCE WILLIAM COUNTY

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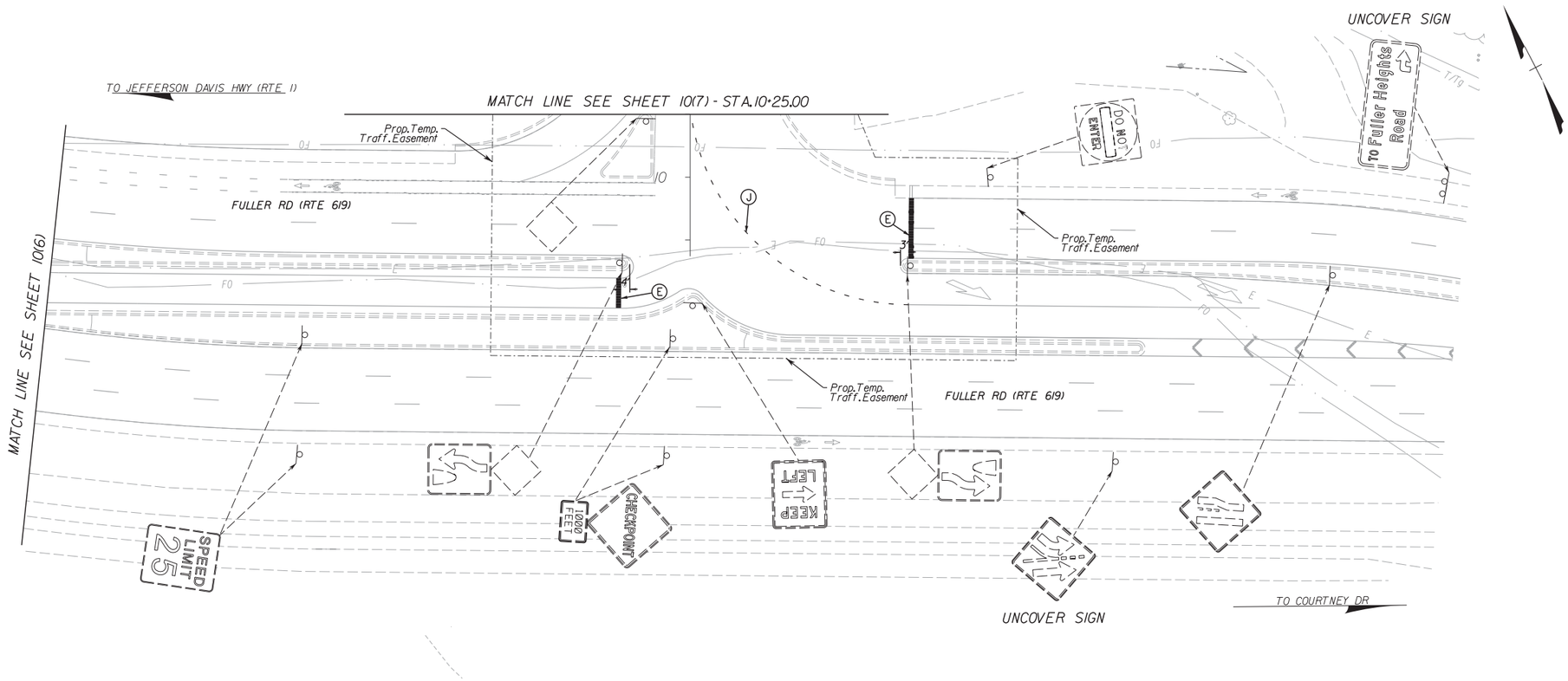

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TRAFFIC SIGNAL GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD),THE CURRENT EDITION OF THE VIRGINIA SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD),THE CURRENT EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS,THE CURRENT EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS,AND ALL SPECIAL PROVISIONS IN EFFECT AT THE TIME THE SIGNAL PLAN IS APPROVED.

2. FIVE (5) WORKING DAYS PRIOR TO COMMENCING TRAFFIC SIGNAL WORK AT ANY LOCATION IN NORTHERN VIRGINIA,THE CONTRACTOR MUST NOTIFY THE VDOT NOVA DISTRICT PERMITS SECTION IN WRITING,WITH THE NAME,DAYTIME PHONE NUMBERS AND EMERGENCY PHONE NUMBERS FOR THE CONTRACTOR GIVING THE LOCATION OF THE WORKSITE INCLUDING STREET NAMES,ROUTE NUMBERS,PERMIT NUMBER,TYPE AND DETAILS OF CONSTRUCTION AND WORK SCHEDULE.

3. THE VDOT ENGINEER,PRIOR TO CONSTRUCTION,SHALL VERIFY THE LOCATIONS OF THE POLE(S) AND CONTROLLER CABINET.THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS VERIFICATION WITH NROIC TOM FOLSE 703-383-2448.

4. THE TRAFFIC SIGNALS WILL NOT BE PLACED INTO FULL COLOR OPERATION WITHOUT THE PRIOR NOTIFICATION AND APPROVAL FROM A VDOT NROIC ENGINEER.ARRANGEMENTS SHALL BE MADE BY THE PERMIT MANAGER TO SCHEDULE THE NROIC FIELD PERSONNEL PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE.NO TRAFFIC SIGNALS SHALL BE PLACED INTO OPERATION UNTIL THE SITE IS 100% COMPLETE.THIS INCLUDES ANY NECESSARY PAVEMENT MARKINGS AND SIGNAGE SHOWN ON THE PLANS AND THE TRAFFIC SIGNAL COMMUNICATION REQUIREMENTS COMPLETE AND OPERATIONAL.NEW TRAFFIC SIGNALS INSTALLATIONS SHALL NOT BE PLACED INTO COLOR OPERATION ON MONDAYS,FRIDAYS OR DAYS PRECEEDING OR FOLLOWING HOLIDAYS,UNLESS DIRECTED BY THE DISTRICT TRAFFIC ENGINEER.

5. THE CONTRACTOR SHALL PROVIDE,INSTALL,AND ADJUST CONTROLLER TIMINGS TO PROVIDE ORDERLY FLOW OF TRAFFIC,OR AS DIRECTED BY THE VDOT NROIC ENGINEER.THE CONTRACTOR SHALL HAVE HIS QUALIFIED REPRESENTATIVE PRESENT TO MONITOR A MINIMUM OF TWO CONSECUTIVE MORNINGS AND EVENING RUSH HOUR PERIODS,OR AS DIRECTED BY THE VDOT NROIC ENGINEER.

6. THE CONTRACTOR SHALL PERFORM TEST PITS AND EXERCISE CARE IN PLACEMENT IF ADJUSTMENTS IN POLE LOCATIONS ARE REQUIRED,THE CONTRACTOR SHALL NOTIFY THE VDOT ENGINEER PRIOR TO COMMENCING WORK.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL UTILITIES WITHIN THE PROJECT LIMITS ARE IDENTIFIED AND LOCATED BEFORE BEGINNING WORK.THE CONTRACTOR SHALL CONTACT MISS UTILITY OF VIRGINIA AT 1-800-522-7001 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES,SCHEDULING THE LOCATING OF UNDERGROUND UTILITIES,AS WELL AS NOTIFYING VDOT'S ENGINEER WHO WILL CONTACT DONALD BAILEY (703-334-0210) TO LOCATE AND MARK ANY SIGNAL CABLES OR TRAFFIC EQUIPMENT WITHIN 1000 FT OF THE PROJECT'S LIMITS.ALL UTILITIES AND EXISTING SIGNAL EQUIPMENT SHALL BE MARKED PRIOR TO INITIATION OF ANY CONSTRUCTION.CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AS TO THE LOCATION OF EXISTING AND APPROVED PLANS OF FUTURE UTILITY LINES.ANY DISRUPTION OF ANY UTILITY SERVICE IS THE RESPONSIBILITY OF THE CONTRACTOR.

8. DURING CONSTRUCTION AND WHEN NOT IN USE,NEW LED TRAFFIC SIGNAL HEADS AND OVERHEAD TRAFFIC SIGNAL SIGNAGE SHALL BE COVERED WITH A DURABLE NON-TRANSPARENT COVER UPON INSTALLATION.THE CONTRACTOR SHALL MAINTAIN COVERS UNTIL THE NEW TRAFFIC SIGNAL SYSTEM IS OPERATIONAL.

9. MAINTENANCE AND REPAIR OF THE TRAFFIC SIGNALS AND ANY NECESSARY FUTURE MODIFICATIONS DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

10. THE CONTRACTOR SHALL LABEL ALL SPARE WIRES IN THE CONTROLLER CABINET,IN ACCORDANCE WITH SECTION 700.04(G) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

11. WHERE APPLICABLE,ALL LOOP DETECTORS SHALL BE INSTALLED BEFORE SURFACE ASPHALT IS INSTALLED.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING FIVE WORKING DAYS PRIOR TO COMMENCING ANY WORK AT AN EXISTING SIGNAL,AND PROVIDE THE FOLLOWING:
    a.CONTRACTOR DAYTIME AND EMERGENCY TELEPHONE NUMBERS.
    b.LOCATION OF INTERSECTION WHERE WORK IS TAKING PLACE.

13. PRIOR TO INITIATING SIGNAL OPERATION,THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO HAVE VDOT'S NRO PERSONNEL PRESENT (703-334-0882,BETWEEN 5:00 AM AND 7:00 PM, MONDAY FRIDAY). A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.THE CONTRACTOR SHALL HAVE HIS QUALIFIED REPRESENTATIVE PRESENT TO MONITOR TRAFFIC FLOW AND ADJUST TIMINGS AS NECESSARY,OR AS DIRECTED BY THE ENGINEER.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE AND PEDESTRIAN DETECTION ON ALL APPROACHES OF THE INTERSECTION AT ALL TIMES,AND THROUGHOUT ALL PHASES OF CONSTRUCTION.

A. POLES AND FOUNDATIONS:

1. MAST ARM LENGTHS ARE TO BE INSTALLED AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY. MAST ARM LENGTHS ARE SHOWN NEXT TO EACH MAST ARM IN THE PLAN VIEW.

2. MAST ARM POLES AND FOUNDATION SHALL BE DESIGNED BY THE CONTRACTOR, PER THE REQUIREMENTS IN THE 2016 VDOT ROD AND BRIDGE SPECIFICATIONS, ALL REVISIONS, AND ANY SPECIAL PROVISION IN EFFECT AT THE TIME THE SIGNAL PLAN IS APPROVED. ALL SHOP DRAWINGS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY VDOT.

B. CONTROLLER AND FOUNDATION:

1. THE PROJECT SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING COMMUNICATION TO THE TRAFFIC SIGNAL CONTROLLER AT ALL TIMES.THE PROJECT IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PROVIDING COMMUNICATION TO THE TRAFFIC SIGNAL.THE PROJECT SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND THE INSTALLATION OF THE COMMUNICATION CIRCUIT CONDUIT(S) TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH THE DESIGNATED COMMUNICATION PROVIDER.

2. THE PROJECT SHALL CONTACT VDOT'S NORTHERN REGION OPERATIONS COMMUNICATIONS GROUP AT NOVATFOCOMM@VDOT.VIRGINIA.GOV NINETY (90) DAYS PRIOR TO THE START OF THE TRAFFIC SIGNAL CONSTRUCTION TO IDENTIFY THE DESIGNATED COMMUNICATION PROVIDER AND TO INITIATE THE BROADBAND CIRCUIT ORDERING PROCESS.

3. THE PROJECT SHALL BE RESPONSIBLE FOR MAINTAINING ELECTRICAL SERVICE TO THE CONTROLLER AT ALL TIMES.

C. TRAFFIC SIGNAL HEADS:

1. ALL VEHICULAR AND PEDESTRIAN TRAFFIC SIGNAL HEADS SHALL BE LED AND CAST ALUMINUM.

2. ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE BACKPLATES.BACKPLATE HARDWARE SHALL BE STAINLESS STEEL.

D. DETECTORS

1. 6' X 40' LOOP DETECTORS SHALL BE PLACED WITH THE DOWNSTREAM EDGE FIVE FEET IN FRONT OF THE STOP BAR.

2. 14/1 ENCLOSED CONDUCTOR CABLE LEAD-IN REQUIRES 5/8" SAW CUT.

E. CONDUIT,CONDUCTORS & ELECTRICAL:

1. 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 SURFACE DEPRESSION.

2. ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ST'D JB-S2 UNLESS OTHERWISE SPECIFIED.

3. NO JB-S1,S2,OR S3 SHALL BE INSTALLED IN PAVED SHOULDER,SIDEWALK,OR MULTI-PURPOSE TRAIL.

4. (S) DENOTES SHIELDED CABLE.(M) DENOTES METAL CONDUIT.(EGC) DENOTES EQUIPMENT GROUNDING CONDUCTOR.(EX) DENOTES EXISTING.

5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH STD.EC1-1.

6. FOR INSTALLATION OF CONDUIT,NO OPEN CUT WILL BE ALLOWED IN ROADWAY SURFACE.

7. ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL SHALL INCLUDE TWO 60 AMP BREAKERS HOUSED WITHIN A SIX POSITION 100 AMP NEMA 3R ENCLOSURE. ALL ELECTRICAL SERVICE SHALL BE METERED.

8. CONDUIT TRENCHED UNDER THE ROAD SHALL BE INSTALLED IN ACCORDANCE WITH ST'D EC1-2.

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STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)			
Pedestal Pole and Foundation (Std.PF-2)			
Traffic Signal Head	w/ Backplate w/o Backplate		
Pedestrian Signal Head			
Pedestrian Pushbutton & Sign		P.B.	P.B.
Traffic Signal Sign	Mast Arm or Span Wire Mt'd.		
Emergency Vehicle Pre-emption (EVP) Sensor w/o Conf.Light			
Junction Box (Std.as noted on plans)		J	J
Signal Luminaire (LED) and Arm			
Loop Detector (Size as noted on plans)		6' x 40'	6' x 40'
Conduit			
Controller Cabinet	Ground Mounted		
Controller Cabinet & Foundation	Std.CF-3	CF-3	CF-3
Uninterruptible Power Supply Cabinet		UPS	UPS
Service Pedestal			
CCTV			
Antenna			

LABELS

Signal Pole or Controller	(A)	Proposed Signal Head	(2)
Cable and Conduit	(A)	Existing Signal Head	(2)
Junction Box	(S3)	Proposed Pedestrian Signal Head	(P2)
Signal Phasing	Ø2	Existing Pedestrian Signal Head	(P2)
		Sign	S-1
		Emergency Preemption Detector	EVP-2

INDEX OF SHEETS

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TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL PLAN
INDEX OF SHEETS,GENERAL NOTES & LEGENDS
PRINCE WILLIAM COUNTY

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SUMMARY OF QUANTITIES

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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TO BE INCLUDED IN THE NEXT SUBMISSION

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TRAFFIC SIGNAL PLAN
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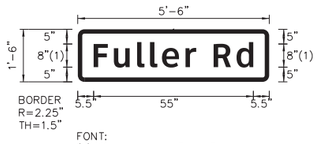
FIGURE 1

SIGN DETAIL



SIGN NUMBER	S-1
WIDTH x HGHT.	5'-6" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

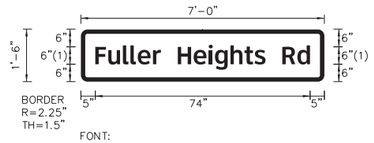
Panel Style:
Dimensions are in inches,tenths
Letter spacings are to start of next letter

LETTER POSITIONS (X)

F	u	l	l	e	r		R	d											LENGTH	SERIES/SIZE
																				ClearviewHwy-5-W-R
5.5	7	8	4.5	4.1	8.1	3.7	6	7.9	5.8	5.5									55	8/6.5

FIGURE 2

SIGN DETAIL
1:25



SIGN NUMBER	S-2
WIDTH x HGHT.	7'-0" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Street Name.sst
Dimensions are in inches,tenths
Letter spacings are to start of next letter

LETTER POSITIONS (X)

F	u	l	l	e	r		H	e	i	g	h	t	s		R	d				LENGTH	SERIES/SIZE
																					ClearviewHwy-5-W-R
5	4.5	5.1	2.6	2.5	5.3	2.8	5.8	5.5	5.2	2.2	5.3	4.8	3.4	3.8	5.8	5.2	4.4	5			74	6/4.9

T3 DESIGN CORPORATION
10340 DEMOCRACY LN
SUITE 305
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

R/W PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL PLAN
SIGN DETAILS

PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	II(2A)

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
SURVEYED BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY STEVEN WILKENING,T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	III(3)

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

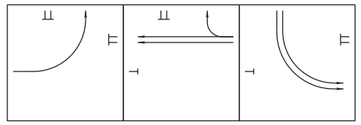
T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER

Proposed Signs

Fuller Rd
S-1
D3-VI
66" x 18"

Fuller Heights Rd
S-2
D3-VI
84" x 18"

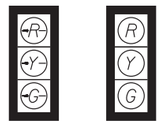
Phasing Diagram



Color Sequence Chart

SIGNALS	SIGNAL	PHASES 4	5	6	FLASH
	4	→G			→R
	5		→G		→R
	6			G	Y

Proposed Signals



All signal heads shall be LED.
All signal heads shall be equipped with retroreflective backplates.

SPEED LIMITS

Fuller Rd	25 MPH
Fuller Heights Rd	25 MPH

JUNCTION BOX LEGEND

All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.
S3 Denotes St'd. JB-S3
S1 Denotes St'd. JB-S1

SIGNAL POLE & CONTROLLER CABINET LEGEND

(ALL DIMENSIONS ARE TO CENTER OF POLE)

① CONTROLLER CABINET & FOUNDATION & UPS (CF-3)
72.4' LT. of Fuller Heights Rd Constr. ℄ Sta. 10+45.5'
Cabinet door hinge located on right side of pad.

② SE-5 METERED POLE WITH DISCONNECT SWITCH
73.9' LT. of Fuller Heights Rd Constr. ℄ Sta. 10+52.9'

Ⓐ MAST ARM POLE, MP-3, TYPE B2
22.7' LT. of Fuller Heights Rd Constr. ℄ Sta. 10+5.8'
75' Arm 42° Angle to Fuller Heights Rd Constr. ℄
Signal Placement: 20', 27', 42', 46', 58', 73'
Emergency Pre-emption Detectors: 24', 33', 65'

SCALE
0 25' 50'

R/W PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

REFERENCES
(PLAN AND DETAIL SHEETS)

T3 DESIGN CORPORATION
10340 DEMOCRACY LN
SUITE 305
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

FULLER RD (RTE.619) & FULLER HEIGHTS RD

PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	III(3)

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236

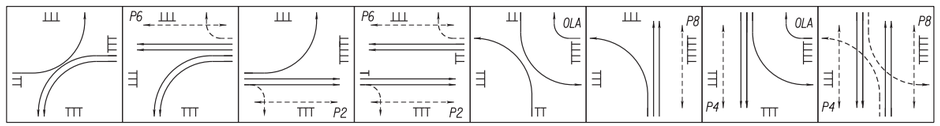
PROJECT MANAGER PRINCE WILLIAM COUNTY TRANSPORTATION DIV.(703)792-6826
SURVEYED BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY STEVEN WILKENING,T3 DESIGN CORPORATION (571) 224-9454
SUBSURFACE UTILITY BY, DATE JOHNSON,MIRMIRAN & THOMPSON (804) 323-9900

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	VDOT 0001-076-995 RW-201 PWC 1006-4N0-0	II(4)

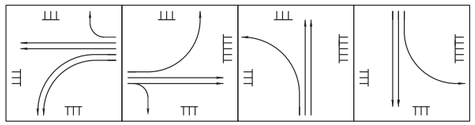
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

T3 Design Corporation
Fairfax, Virginia
TRAFFIC ENGINEER

Phasing Diagram



Preemption Phasing Diagram



SPEED LIMITS

Fuller Rd (Rte 619)	35 MPH
Jefferson Davis Hwy (Rte 1)	35 MPH

JUNCTION BOX LEGEND

All Junction Boxes shall conform to St'd.JB-S2 unless otherwise noted on the plans.

(S3) Denotes St'd.JB-S3
(S1) Denotes St'd.JB-S1

SIGNAL POLE & CONTROLLER CABINET LEGEND

(ALL DIMENSIONS ARE TO CENTER OF POLE)

(1) EXISTING CONTROLLER CABINET & FOUNDATION (CF-3)
Cabinet door hinge located on right side of pad.

(2) EXISTING SE-5 METERED POLE WITH DISCONNECT SWITCH

(A) EXISTING SIGNAL MAST ARM POLE
78' Arm prependicular to Jefferson Davis Hwy Constr.℄

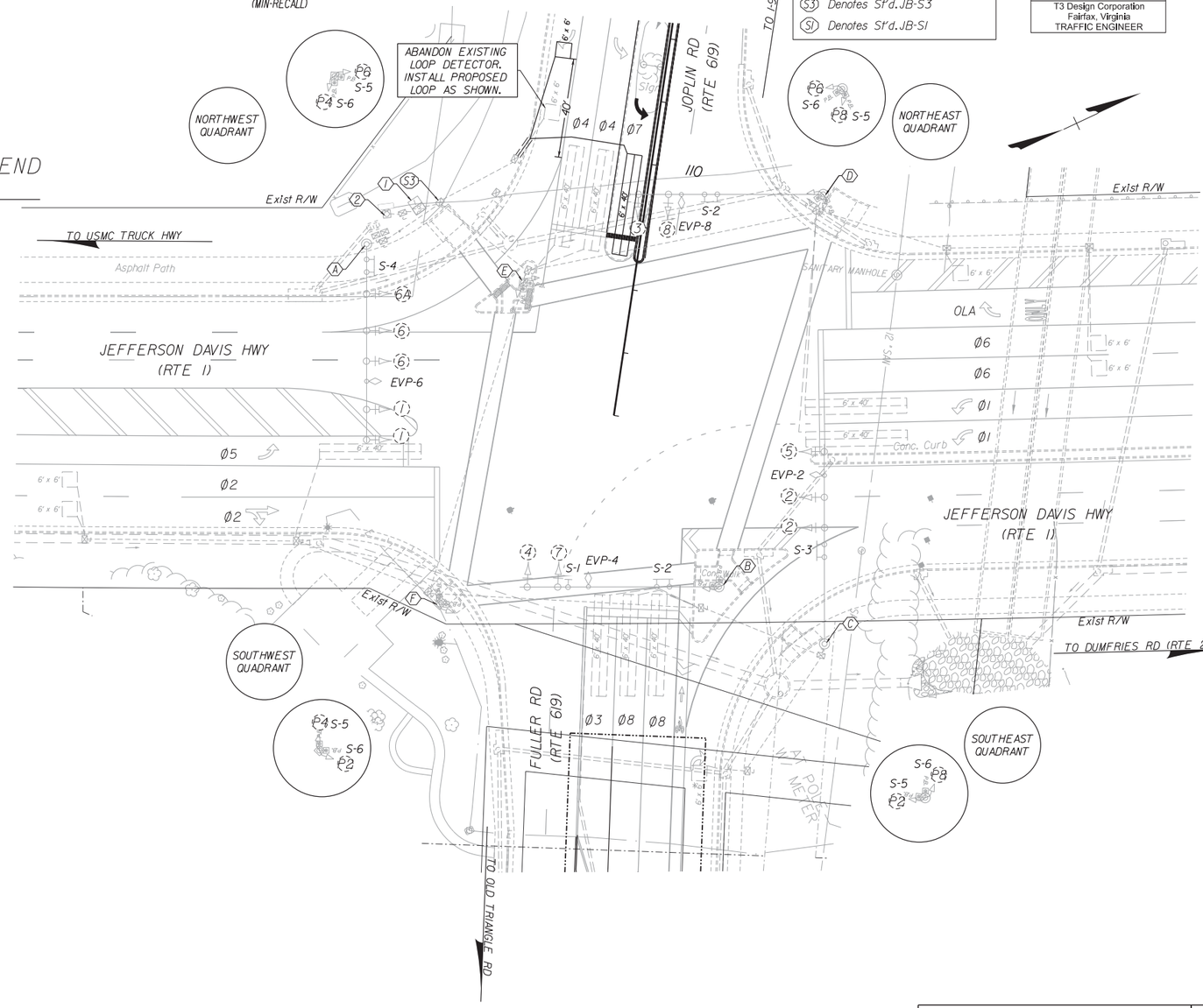
(B) EXISTING SIGNAL MAST ARM POLE
78' Arm prependicular to Fuller Rd Constr.℄

(C) EXISTING SIGNAL MAST ARM POLE
78' Arm prependicular to Jefferson Davis Hwy Constr.℄

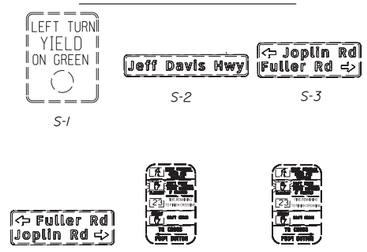
(D) EXISTING SIGNAL MAST ARM POLE
78' Arm parallel to Jefferson Davis Hwy Constr.℄

(E) EXISTING PEDESTAL POLE (PF-2).10'

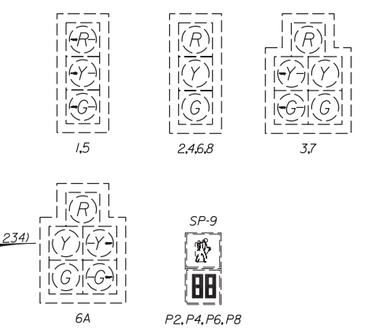
(F) EXISTING PEDESTAL POLE (PF-2).10'



Existing Signs to Remain



Existing Signals to Remain



SCALE
0 25' 50'

T3 DESIGN CORPORATION
10340 DEMOCRACY LN
SUITE 305
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

R/W PLANS

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REFERENCES
(PLAN AND DETAIL SHEETS)

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN
JEFFERSON DAVIS HWY (RTE.1)
FULLER RD (RTE.619) &
PRINCE WILLIAM COUNTY

ASSET NUMBER	PROJECT	SHEET NO.
	VDOT 0001-076-995 PWC 1006-4N0-0	II(4)

XSHT_619 Joplin.dgn
11:46:55 AM

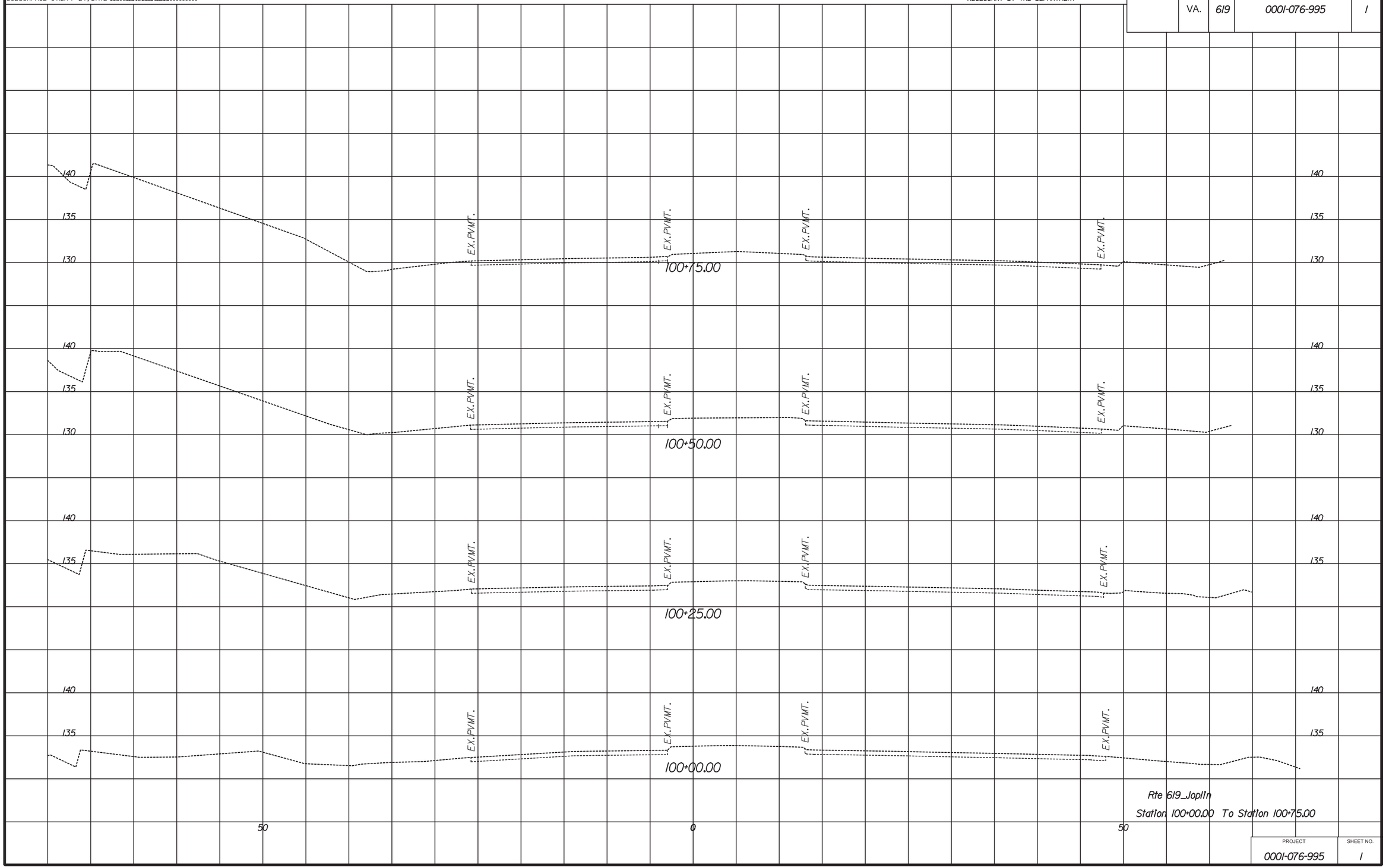
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	1



Rte 619_Joplin
Station 100+00.00 To Station 100+75.00

PROJECT	SHEET NO.
0001-076-995	1

XSHT_619 Joplndgn
11:46:55 AM

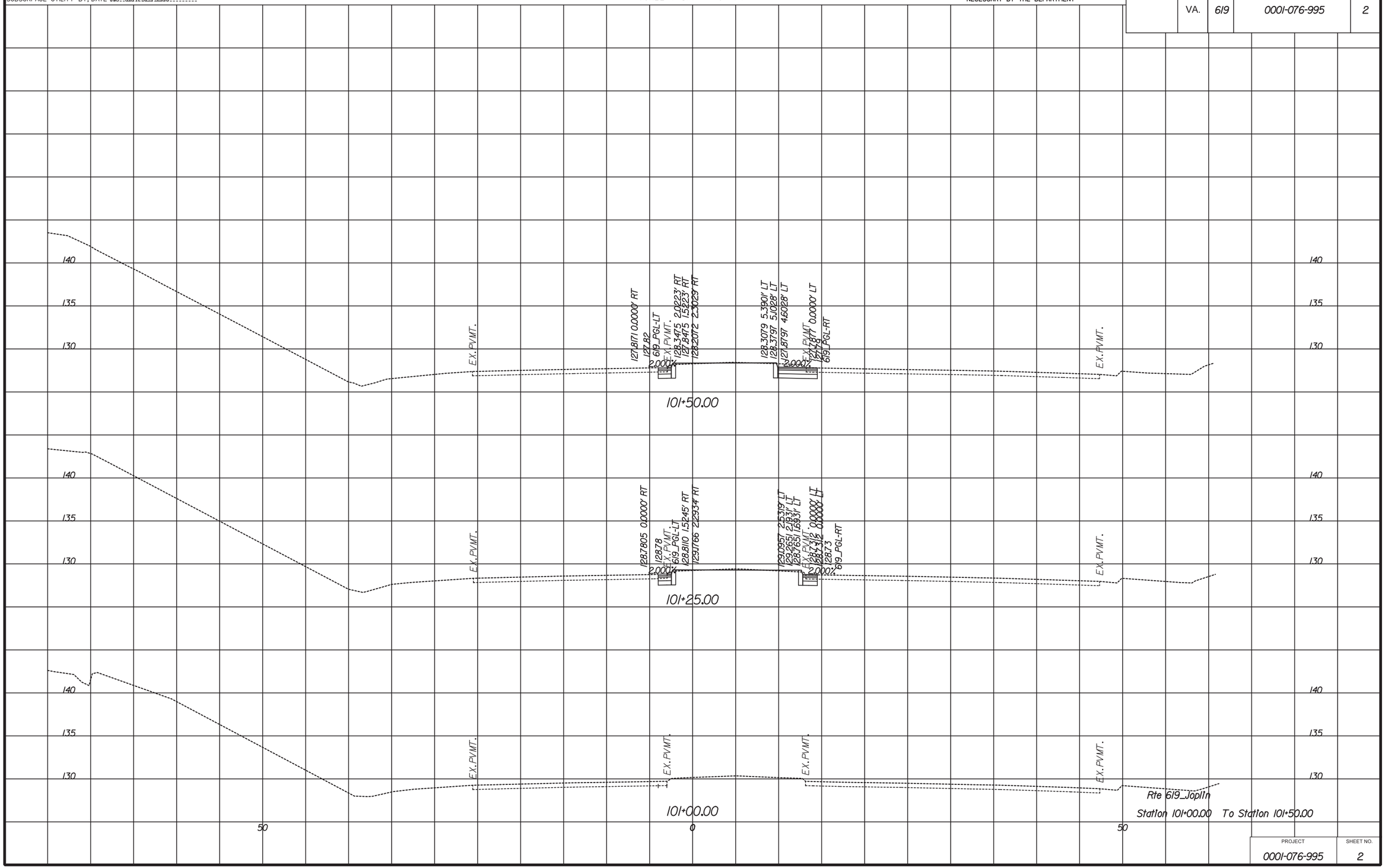
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	2



PROJECT	SHEET NO.
0001-076-995	2

XSHT_619 Joplin.dgn
11:46:56 AM

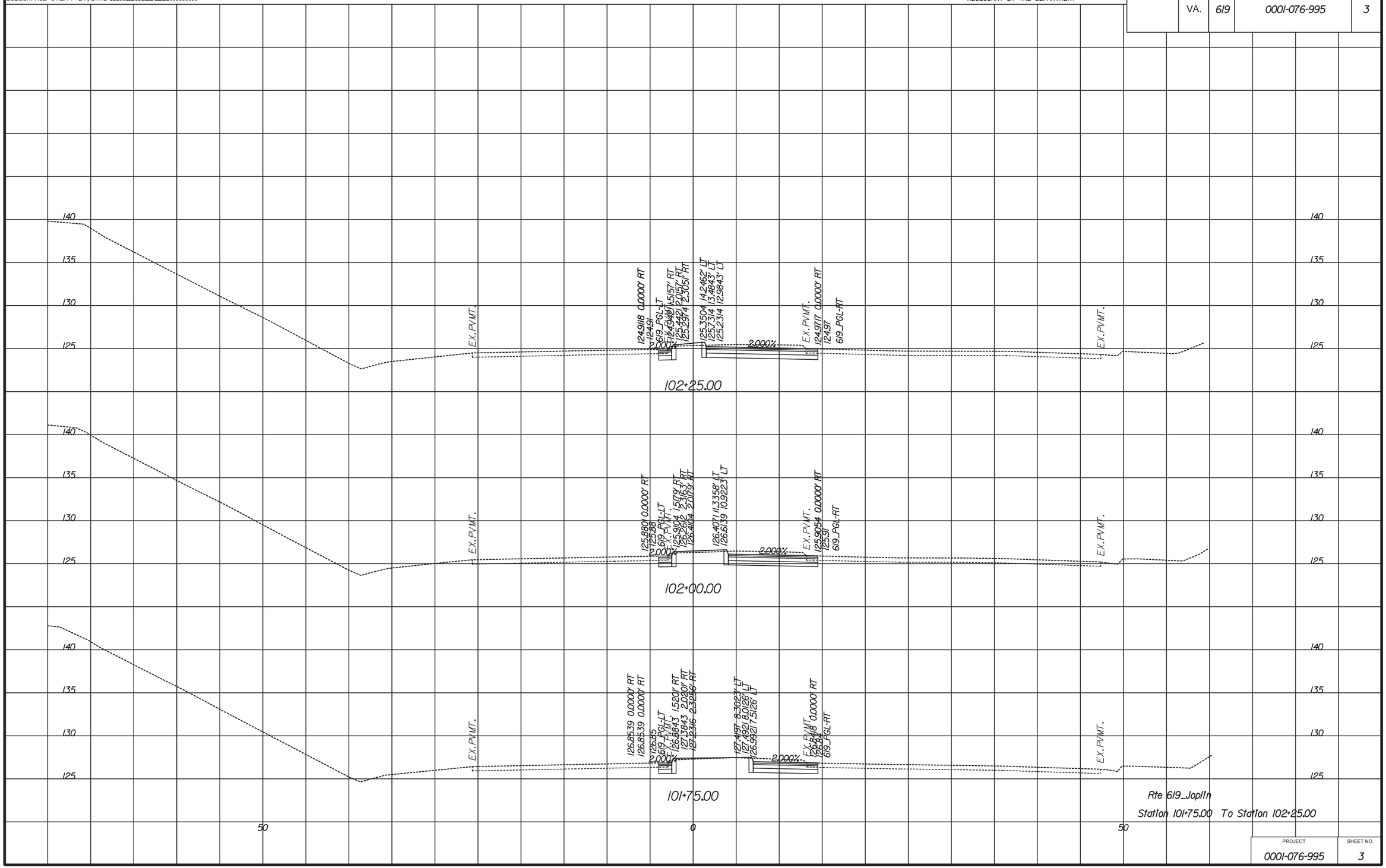
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	3



PROJECT	SHEET NO.
0001-076-995	3

XSHT_619 Joplndgn
11:46:56 AM

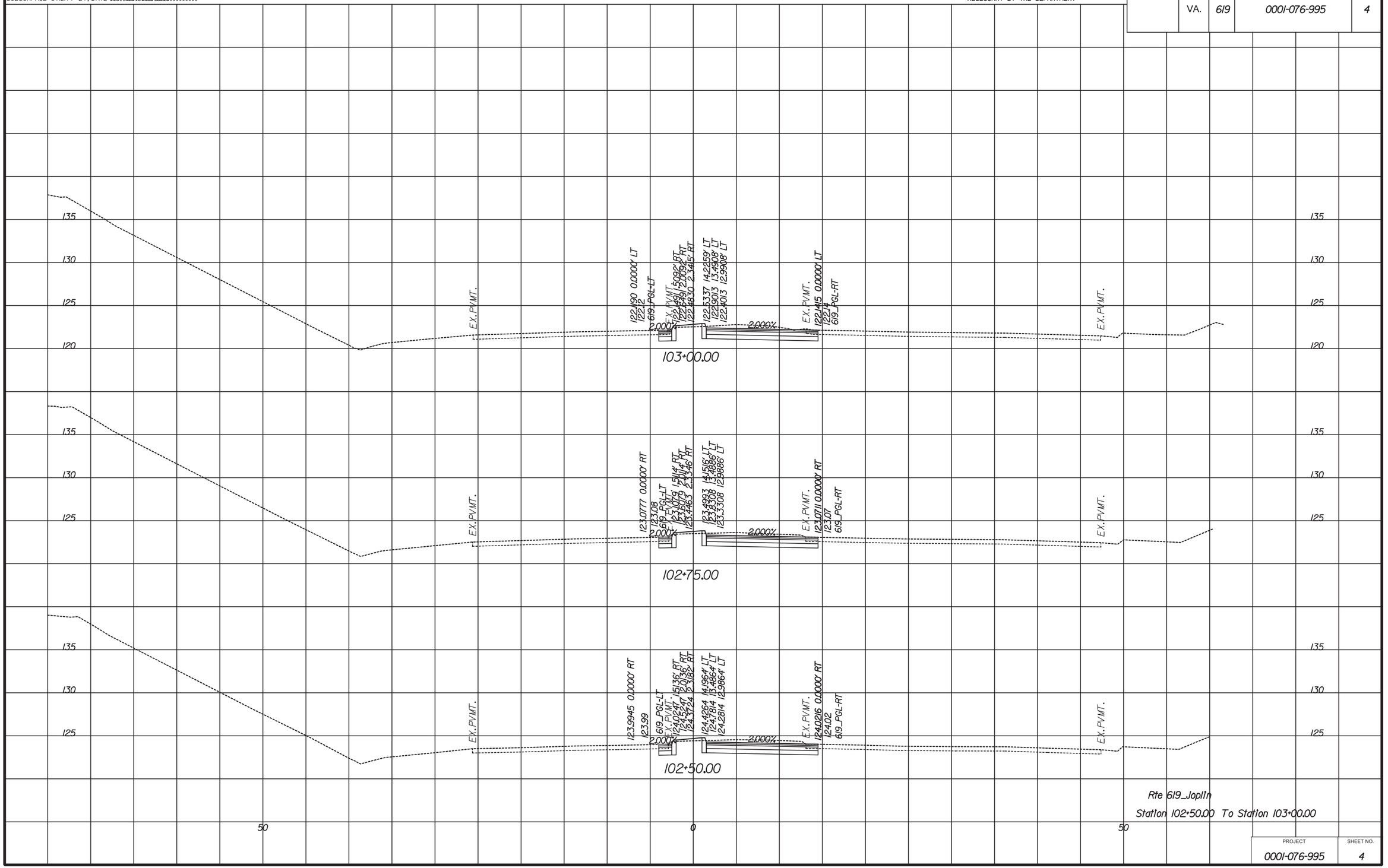
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	4



Rte 619_Joplln
Station 102+50.00 To Station 103+00.00

PROJECT	SHEET NO.
0001-076-995	4

XSHT_619 Joplin.dgn
11:46:56 AM

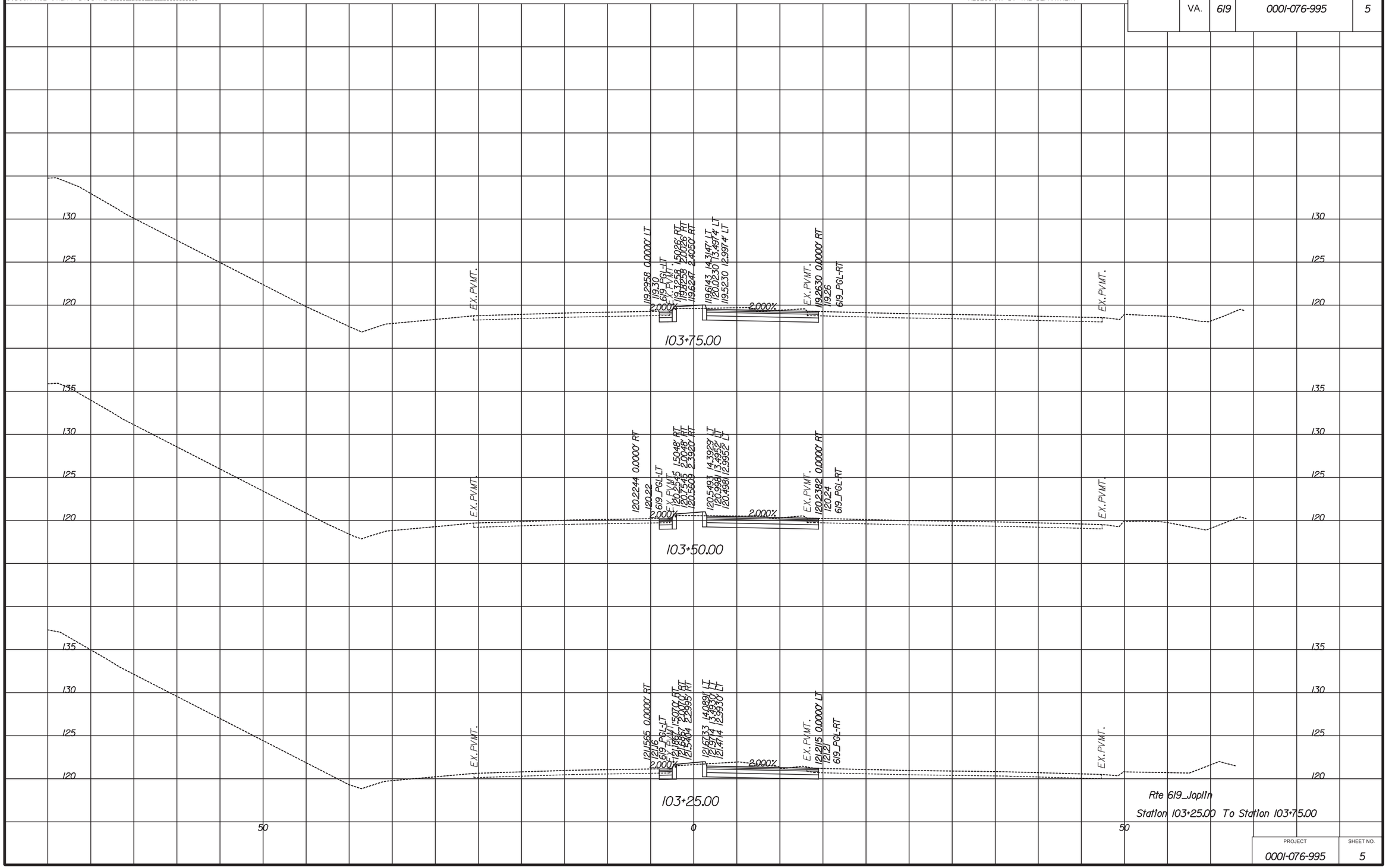
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	5



PROJECT	SHEET NO.
0001-076-995	5

XSHT_619 Joplindgn
11:46:56 AM

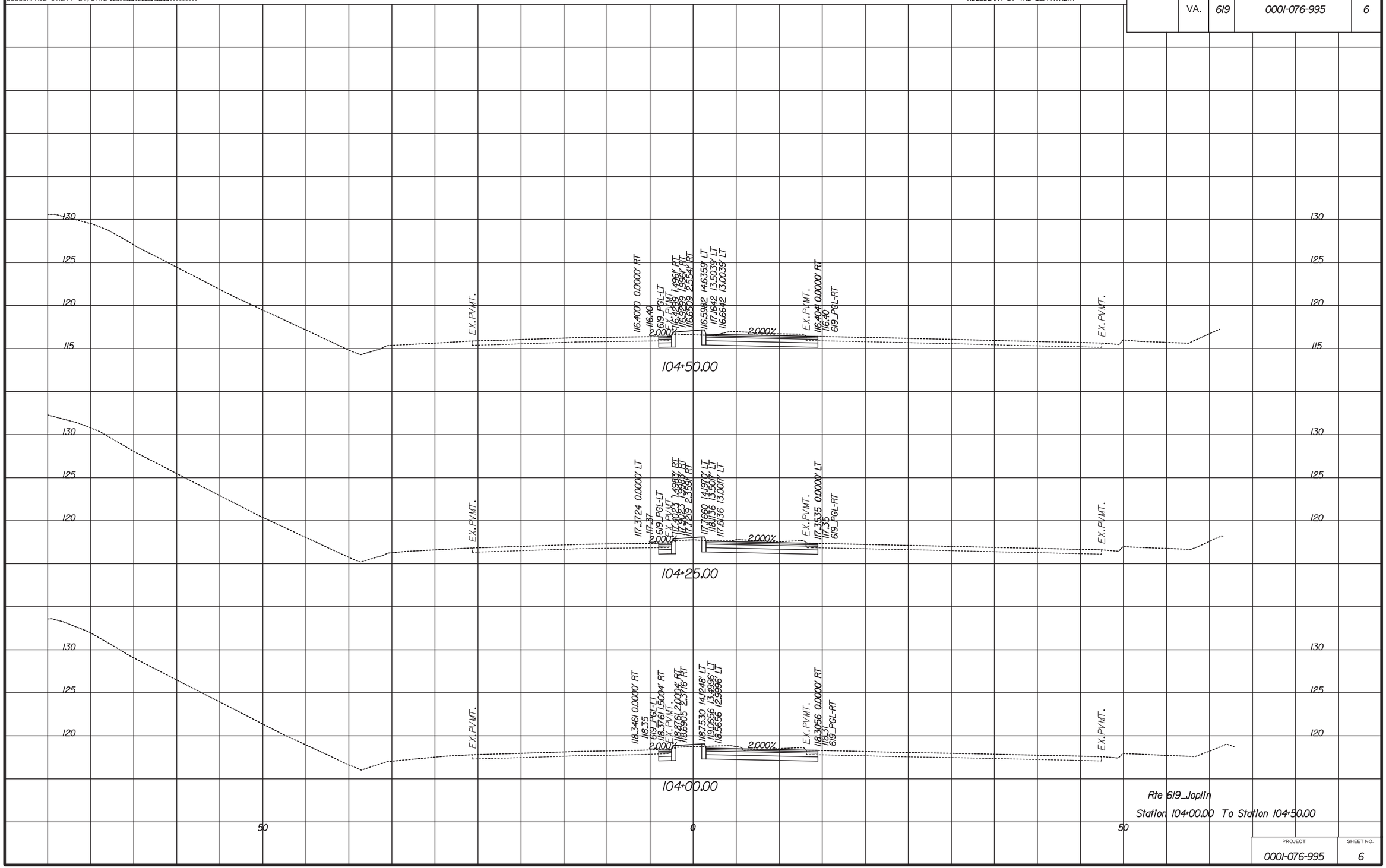
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	6



PROJECT	SHEET NO.
0001-076-995	6

XSHT_619 Joplndgn
11:46:56 AM

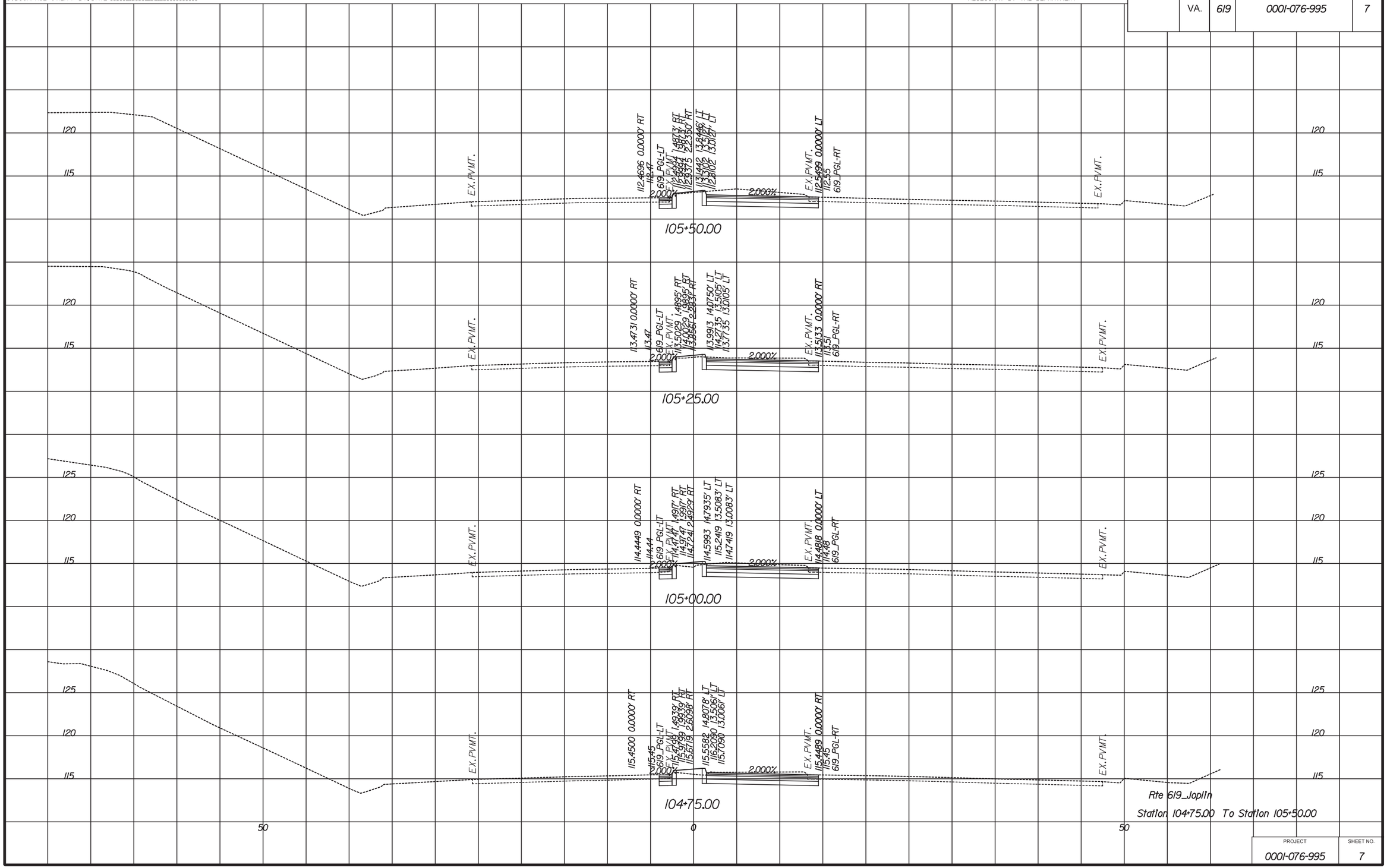
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	7



PROJECT	SHEET NO.
0001-076-995	7

XSHT_619 Joplin.dgn
11:46:57 AM

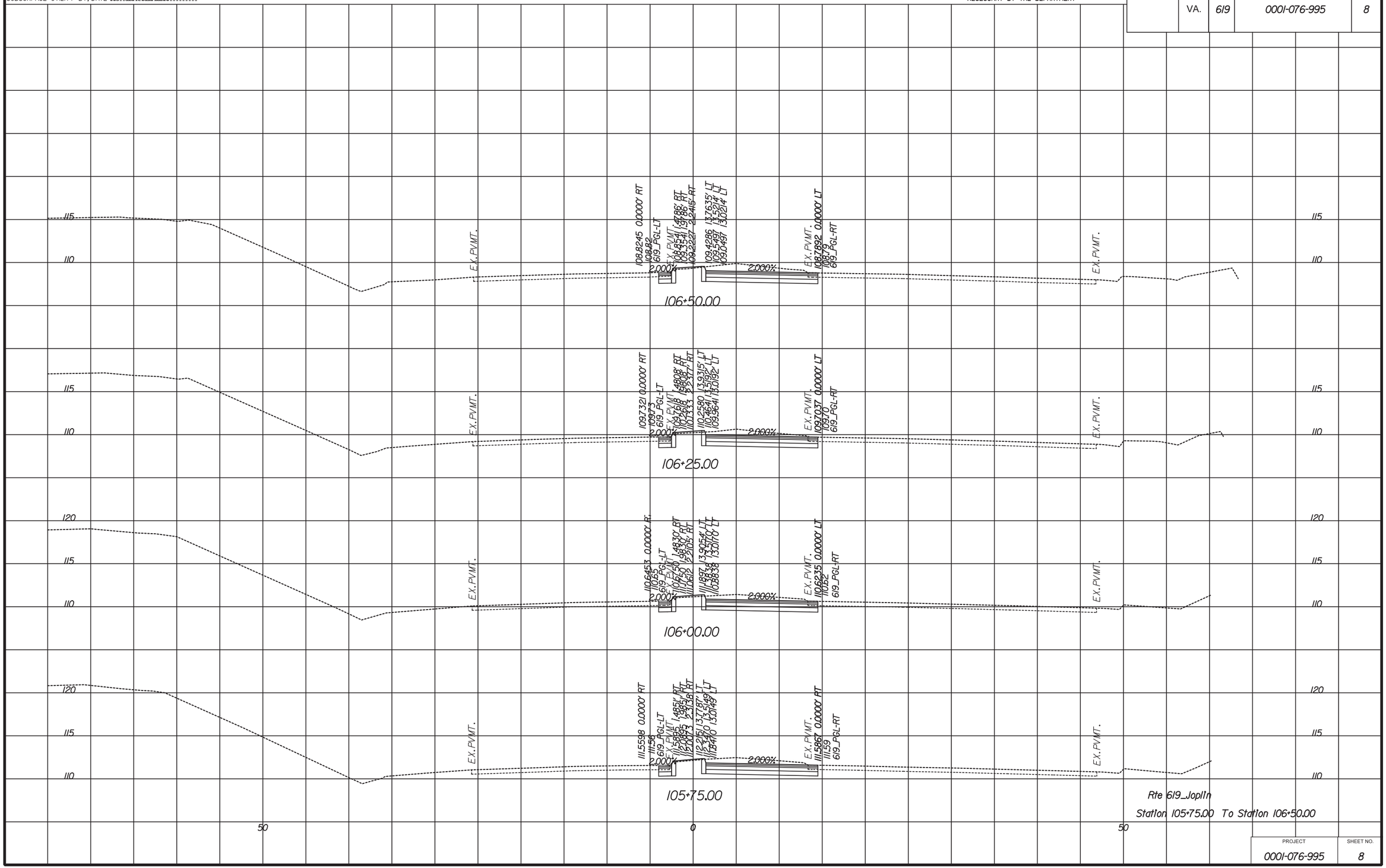
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	8



PROJECT	SHEET NO.
0001-076-995	8

XSHT_619 Joplndgn
11:46:57 AM

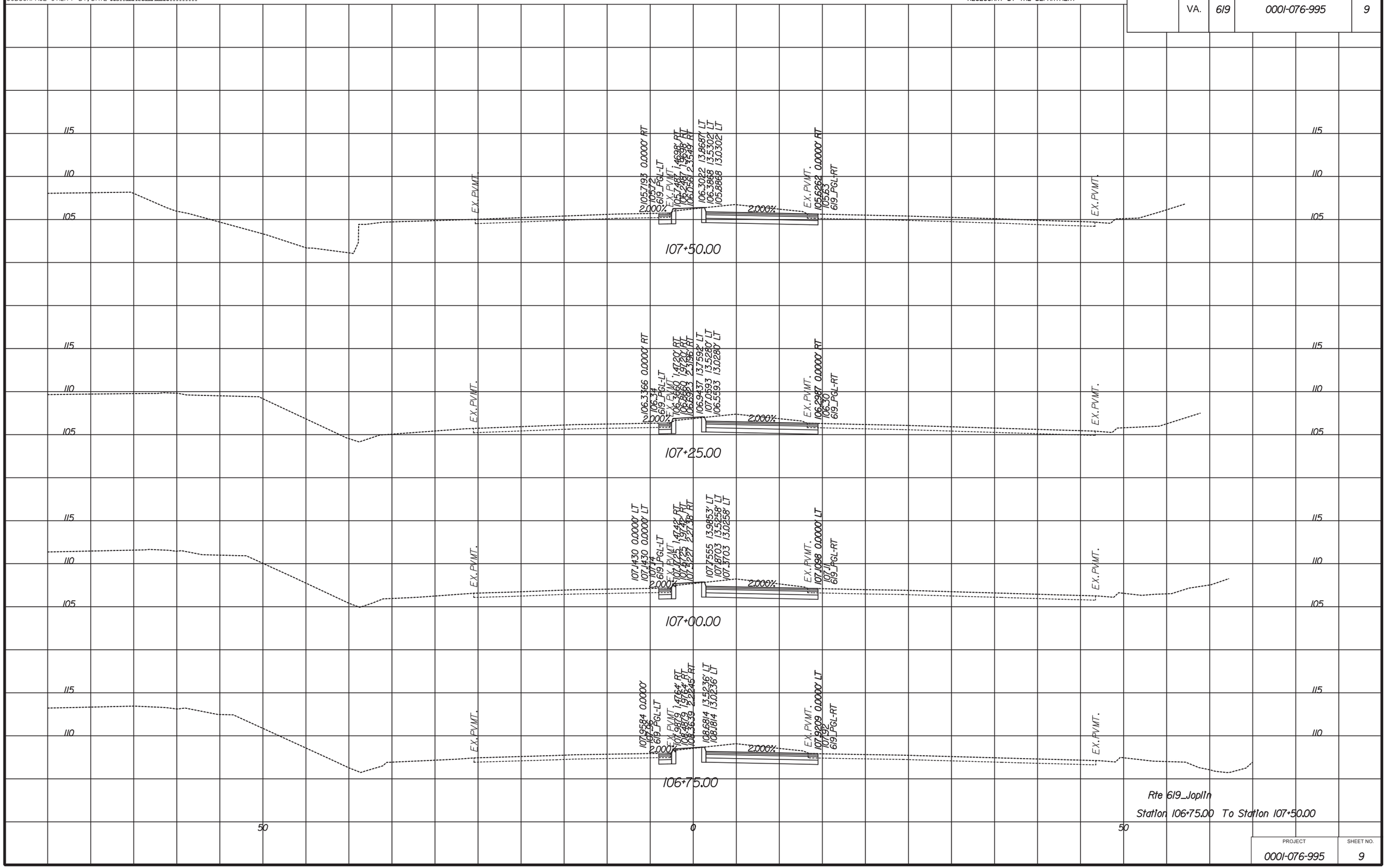
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	9



Rte 619_Joplin
Station 106+75.00 To Station 107+50.00

PROJECT	SHEET NO.
0001-076-995	9

XSHT_619 JoplIndgn
11:46:57 AM

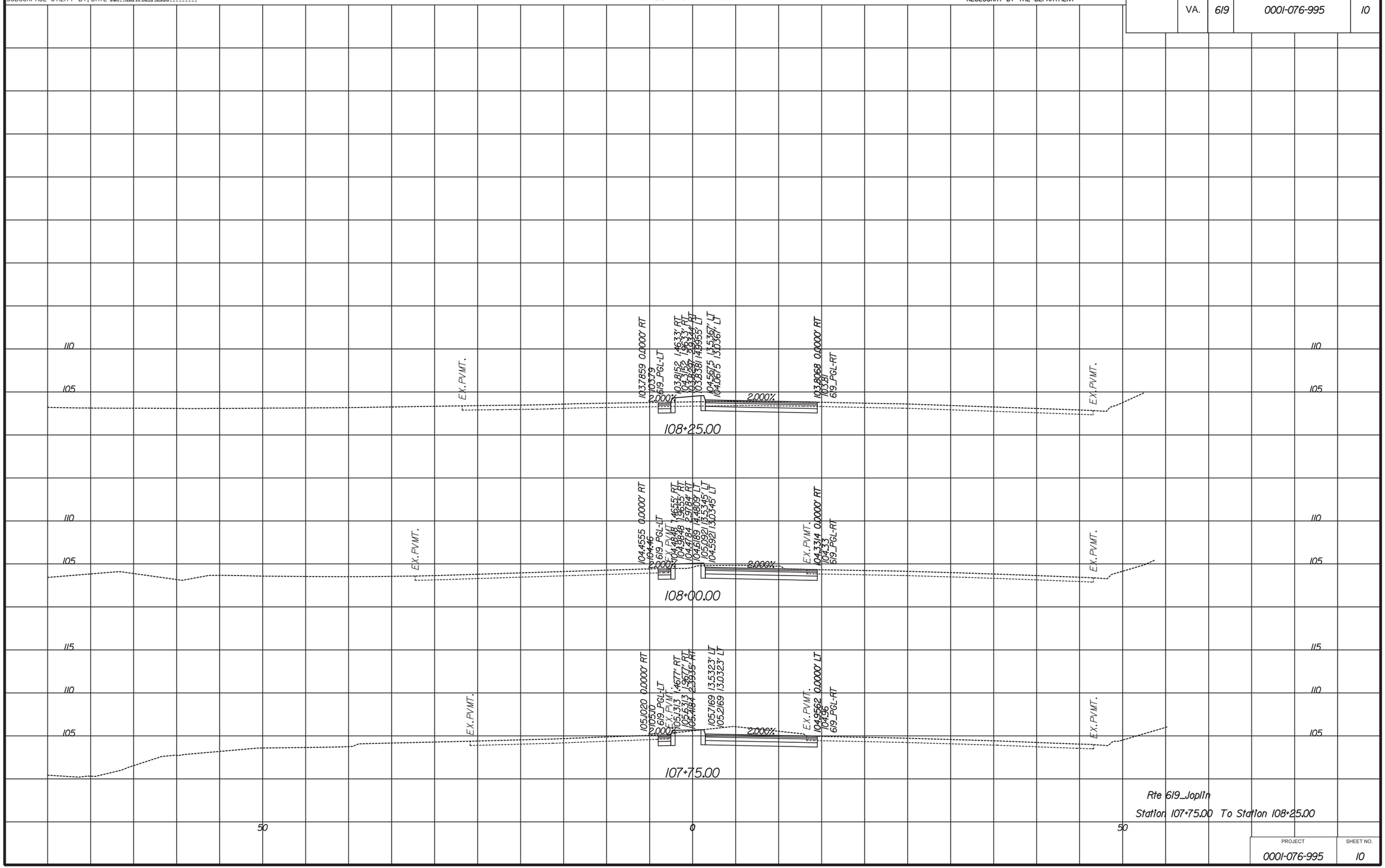
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	10



Rte 619_JoplIn
Station 107+75.00 To Station 108+25.00

PROJECT	SHEET NO.
0001-076-995	10

XSHT_619 Joplin.dgn
11:46:57 AM

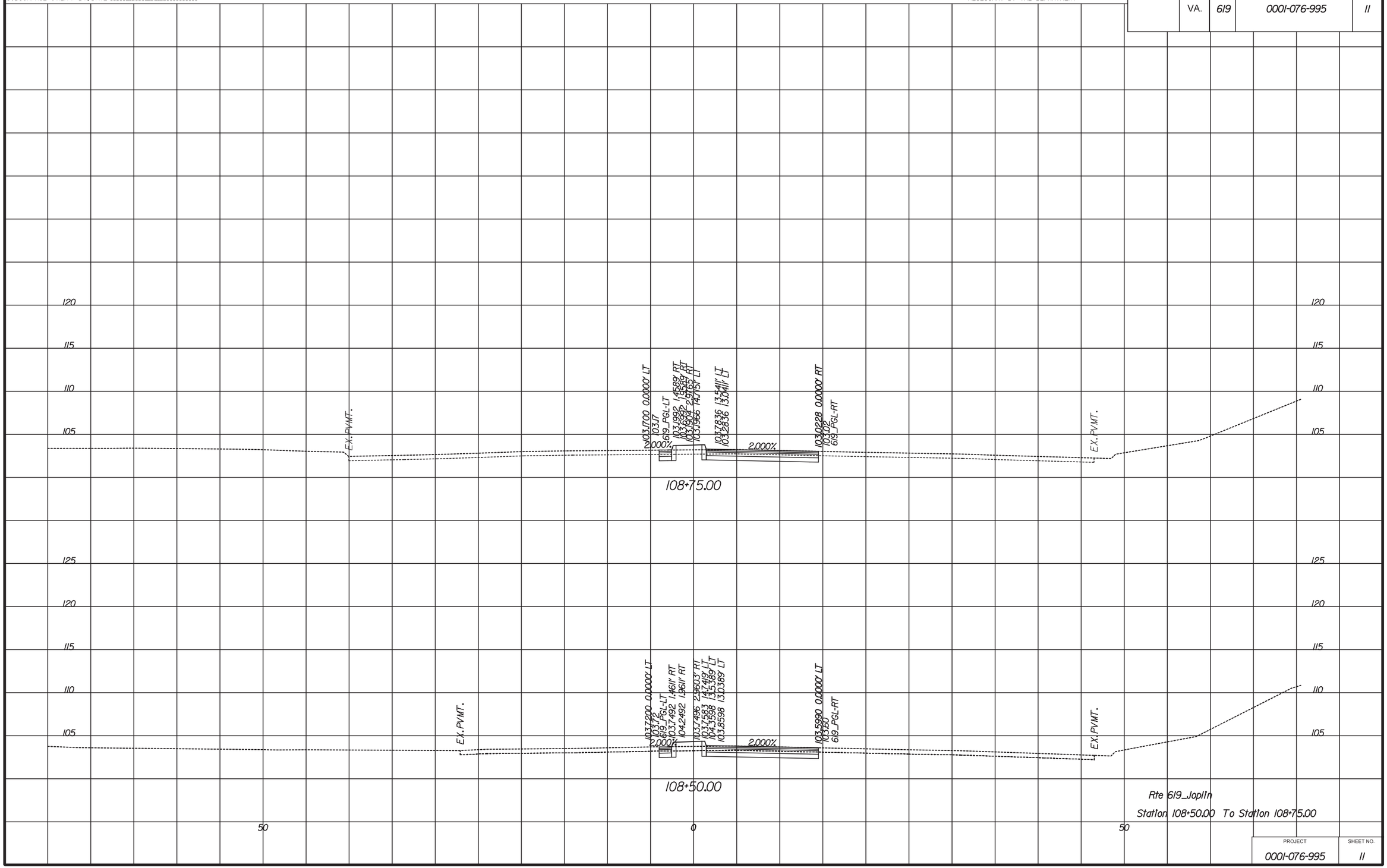
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	11



Rte 619_Joplin
Station 108+50.00 To Station 108+75.00

PROJECT	SHEET NO.
0001-076-995	11

XSHT_619 Joplindgn
11:46:57 AM

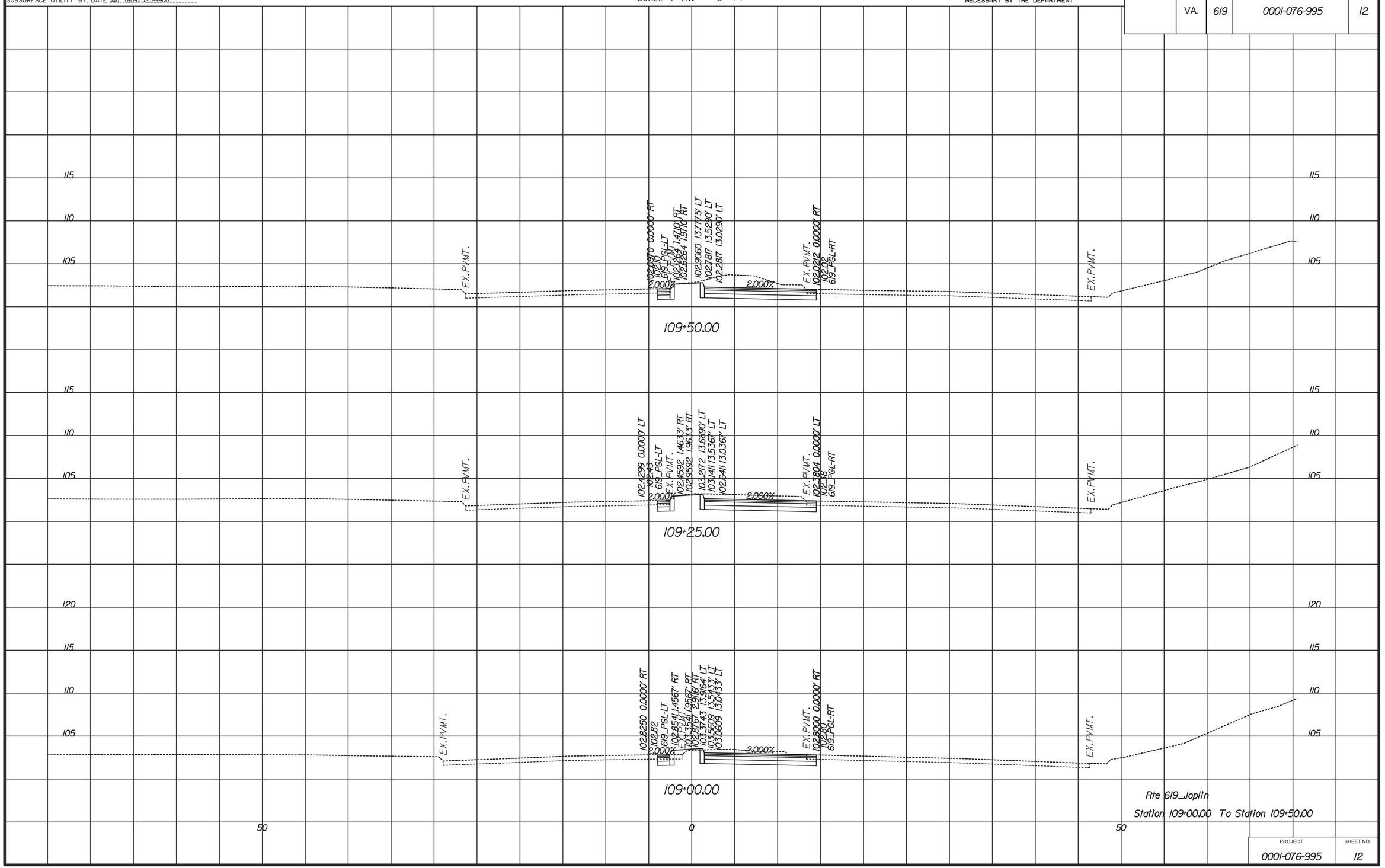
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	12



PROJECT	SHEET NO.
0001-076-995	12

XSHT_619 Joplndgn
11:46:58 AM

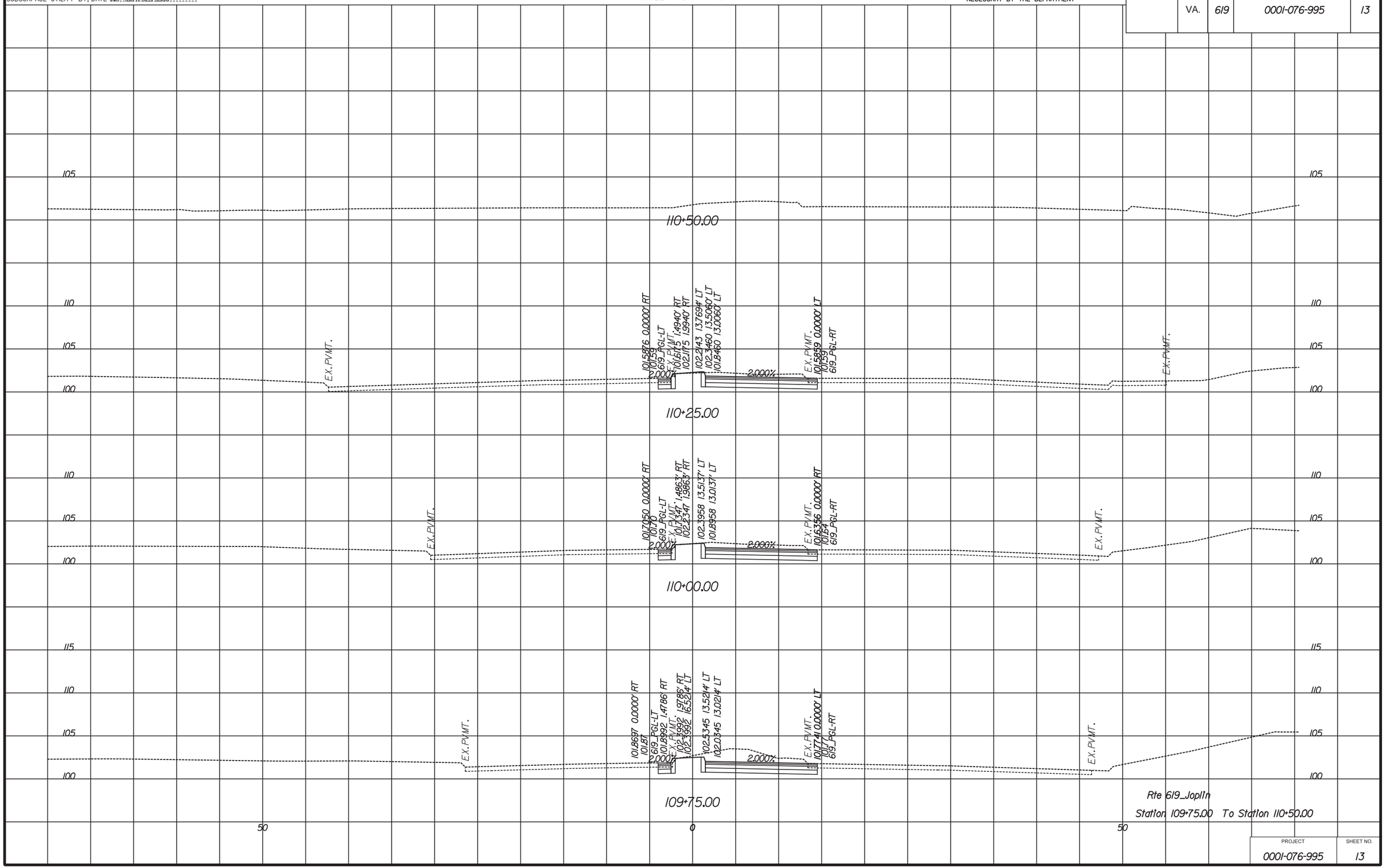
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	13



Rte 619_Joplin
Station 109+75.00 To Station 110+50.00

PROJECT	SHEET NO.
0001-076-995	13

XSHT_619 Joplndgn
11:46:58 AM

PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	14

111+00.00

105

105

110+75.00

50

0

50

Rte 619_Joplln
Station 110+75.00 To Station 111+00.00

PROJECT	SHEET NO.
0001-076-995	14

XSHT_FHRD.dgn
11:47:00 AM

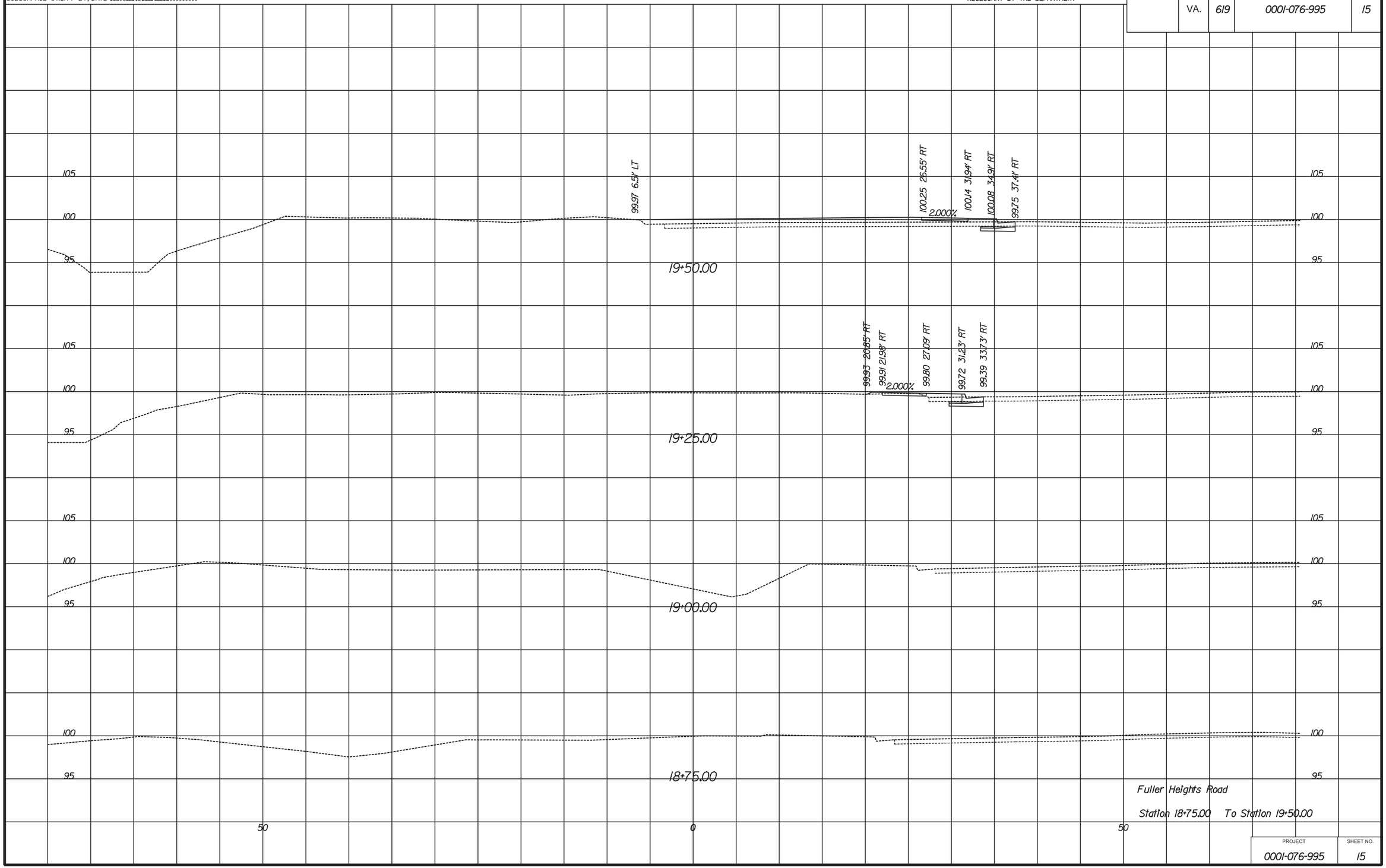
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	15



Fuller Heights Road

Station 18+75.00 To Station 19+50.00

PROJECT	SHEET NO.
0001-076-995	15

XSHT_FHRD.dgn
11:47:00 AM

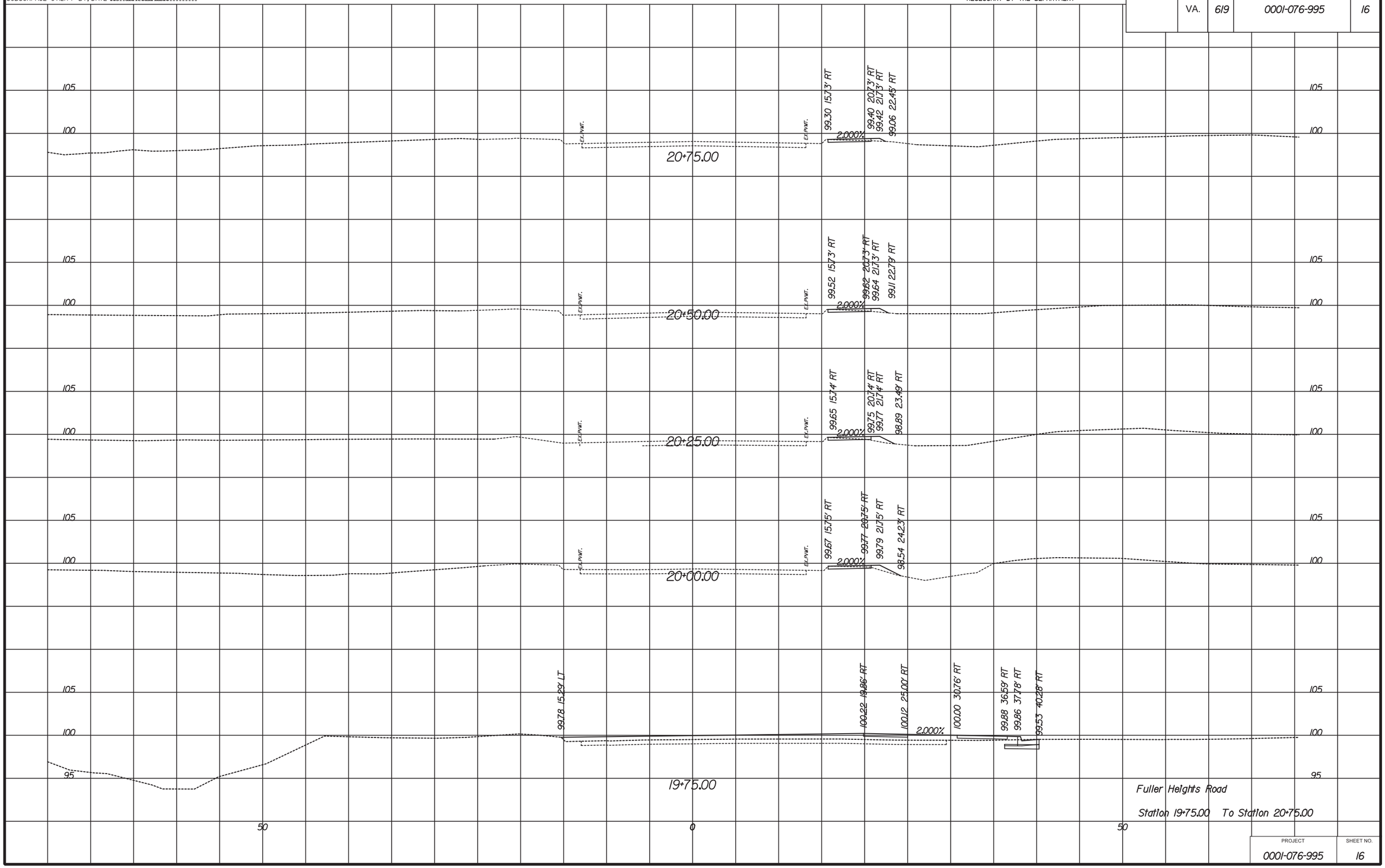
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	16



Fuller Heights Road

Station 19+75.00 To Station 20+75.00

PROJECT	SHEET NO.
0001-076-995	16

XSHT_FHRD.dgn
11:47:00 AM

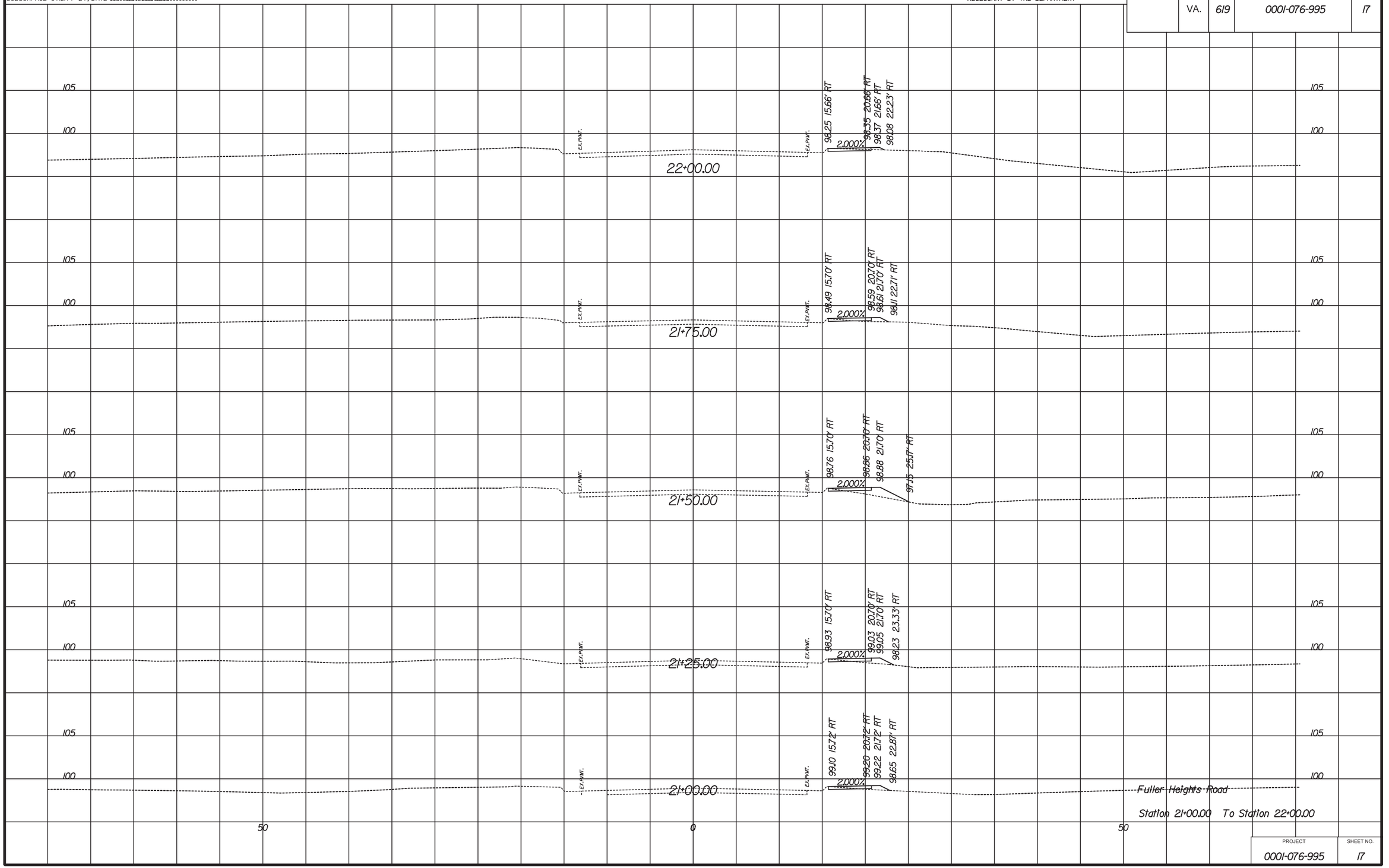
PROJECT MANAGER Gladis Arbaleda,PWC_DOT, (703) 792-5276
SURVEYED BY, DATE JMT, (804) 323-9900
DESIGN BY JMT, (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT, (804) 323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	17



Fuller Heights Road

Station 21+00.00 To Station 22+00.00

PROJECT	SHEET NO.
0001-076-995	17

XSHT_FHRD.dgn
11:47:01 AM

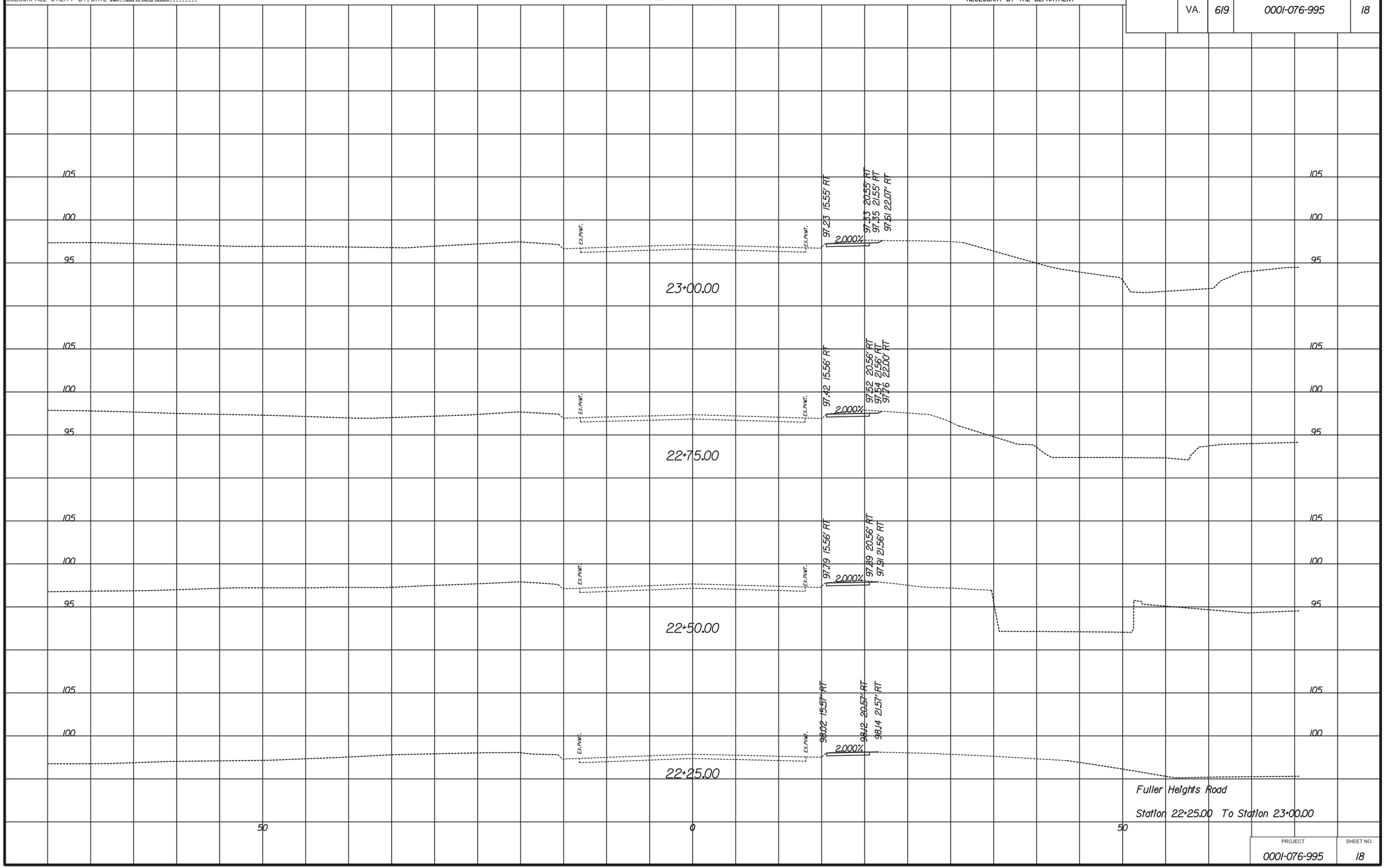
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	18



Fuller Heights Road

Station 22+25.00 To Station 23+00.00

PROJECT	SHEET NO.
0001-076-995	18

XSHT_FHRD.dgn
11:47:01 AM

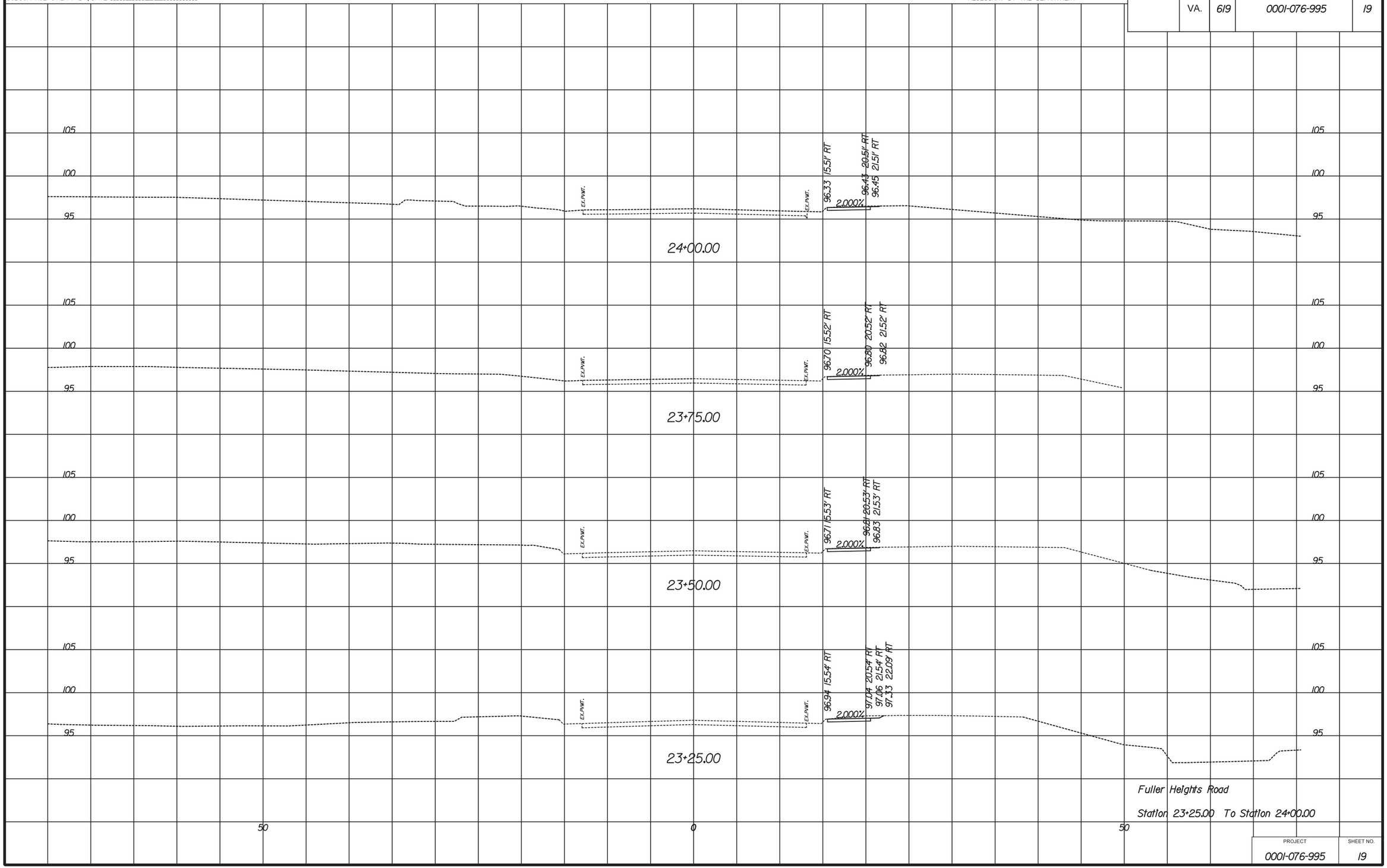
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	19



Fuller Heights Road

Station 23+25.00 To Station 24+00.00

PROJECT	SHEET NO.
0001-076-995	19

XSHT_FHRD.dgn
11:47:01 AM

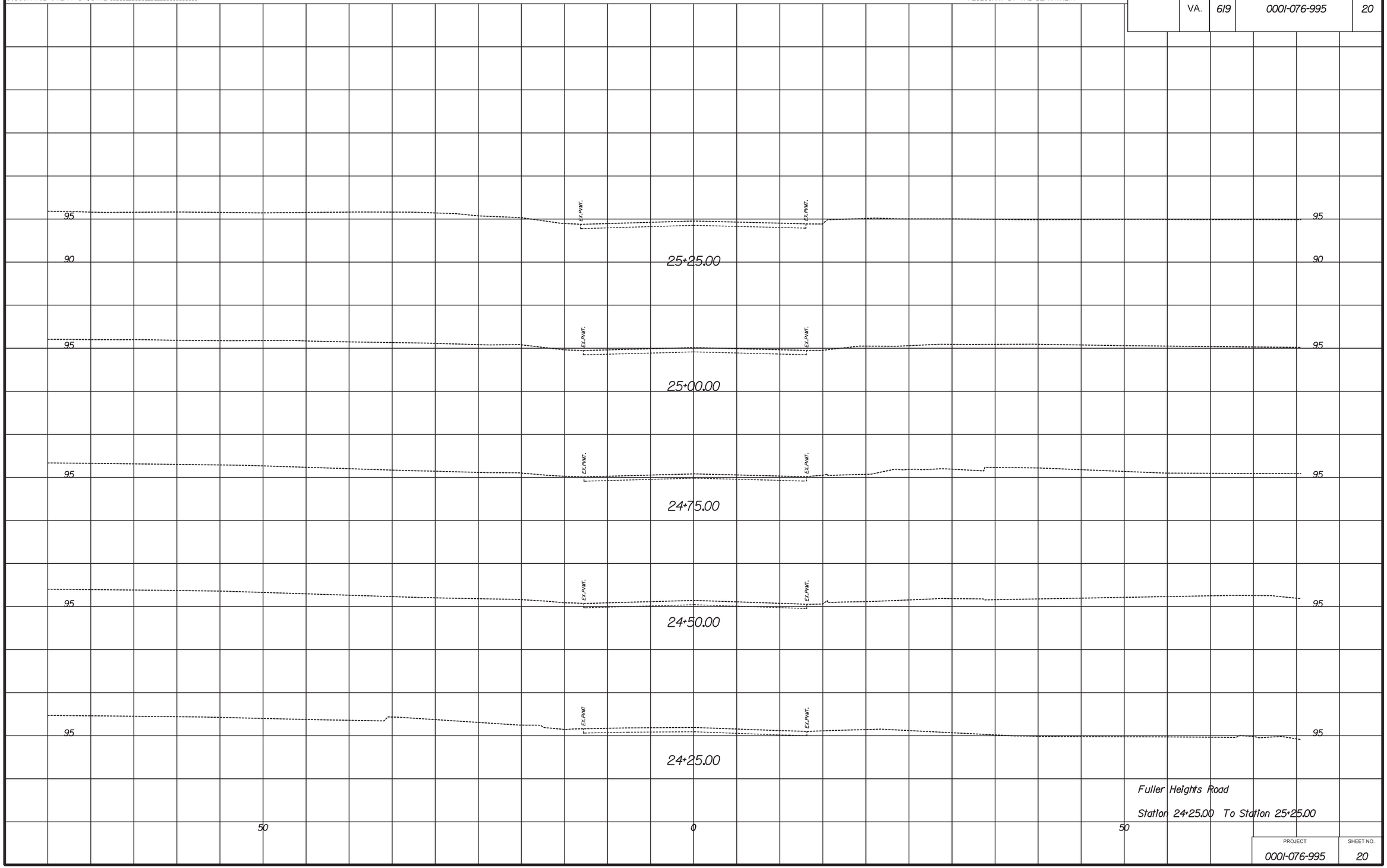
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	20



Fuller Heights Road

Station 24+25.00 To Station 25+25.00

PROJECT	SHEET NO.
0001-076-995	20

XSHT_FHRD.dgn
11:47:01 AM

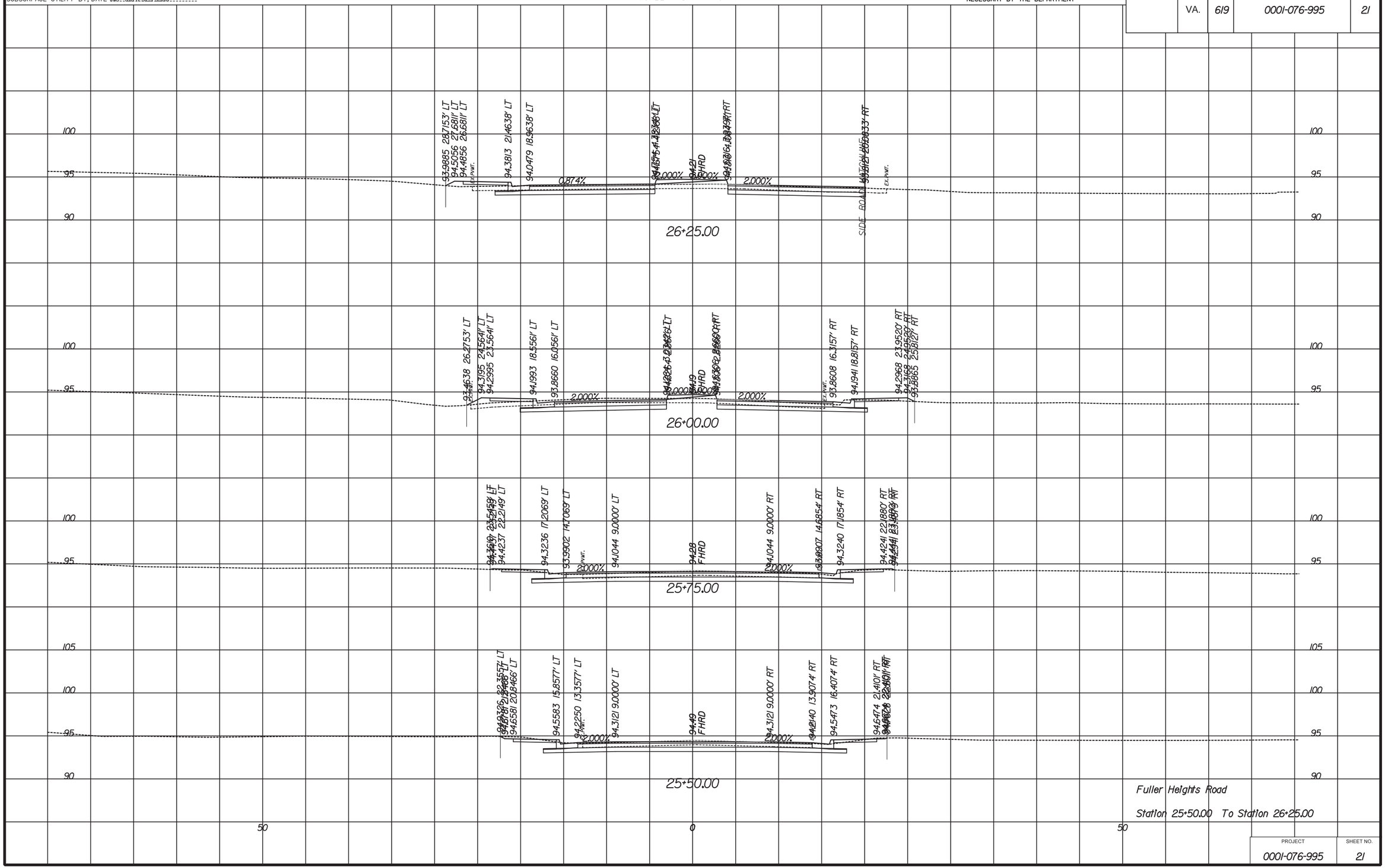
PROJECT MANAGER Gladis Arbaleda,PWC_DOT, (703) 792-5276
SURVEYED BY, DATE JMT, (804) 323-9900
DESIGN BY JMT, (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT, (804) 323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6/9	0001-076-995	21



Fuller Heights Road

Station 25+50.00 To Station 26+25.00

PROJECT	SHEET NO.
0001-076-995	21

XSHT_FHRD.dgn
11:47:01 AM

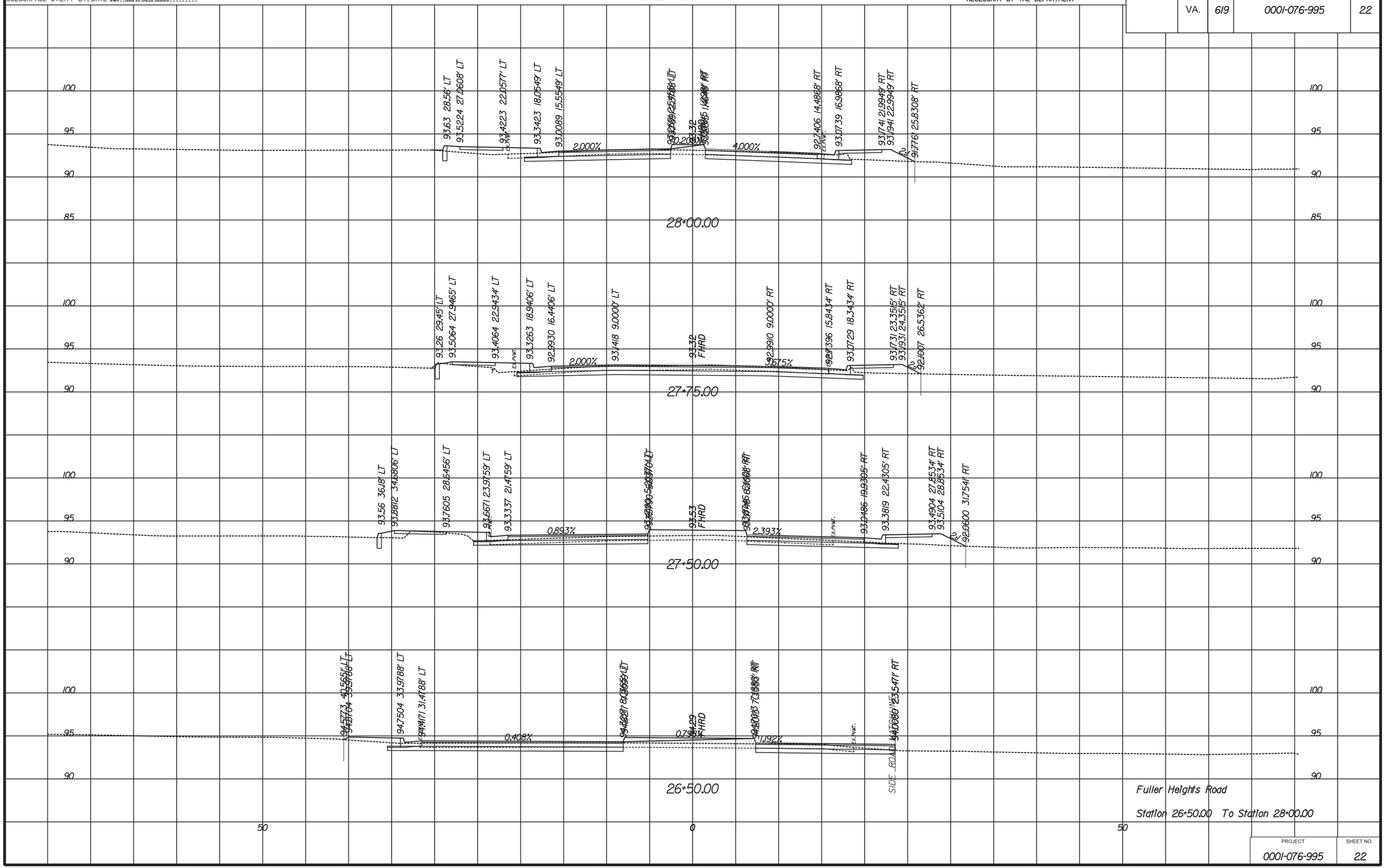
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	22



Fuller Heights Road

Station 26+50.00 To Station 28+00.00

PROJECT	SHEET NO.
0001-076-995	22

XSHT_FHRD.dgn
11:47:02 AM

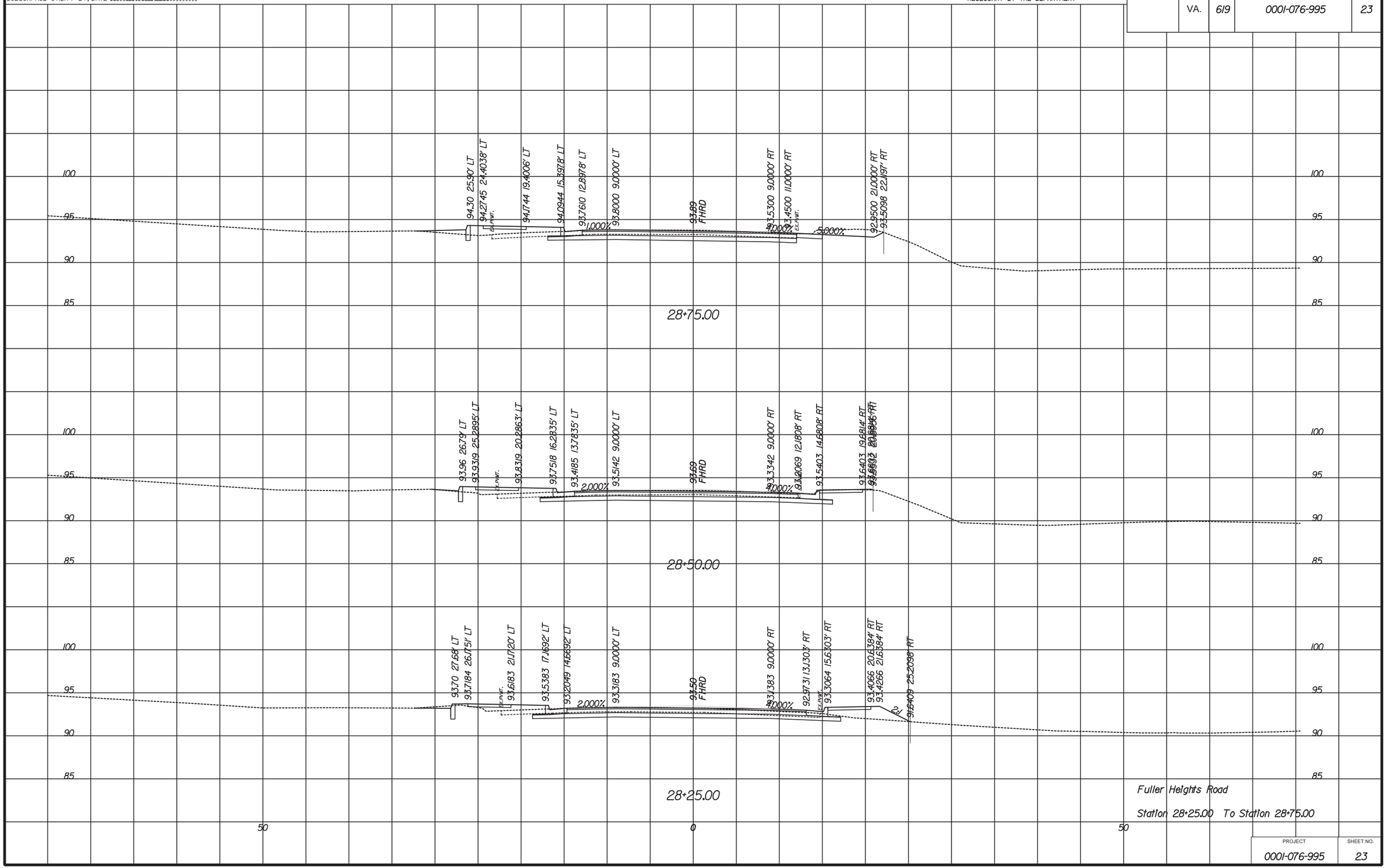
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	23



Fuller Heights Road

Station 28+25.00 To Station 28+75.00

PROJECT	SHEET NO.
0001-076-995	23

XSHT_FHRD.dgn
11:47:02 AM

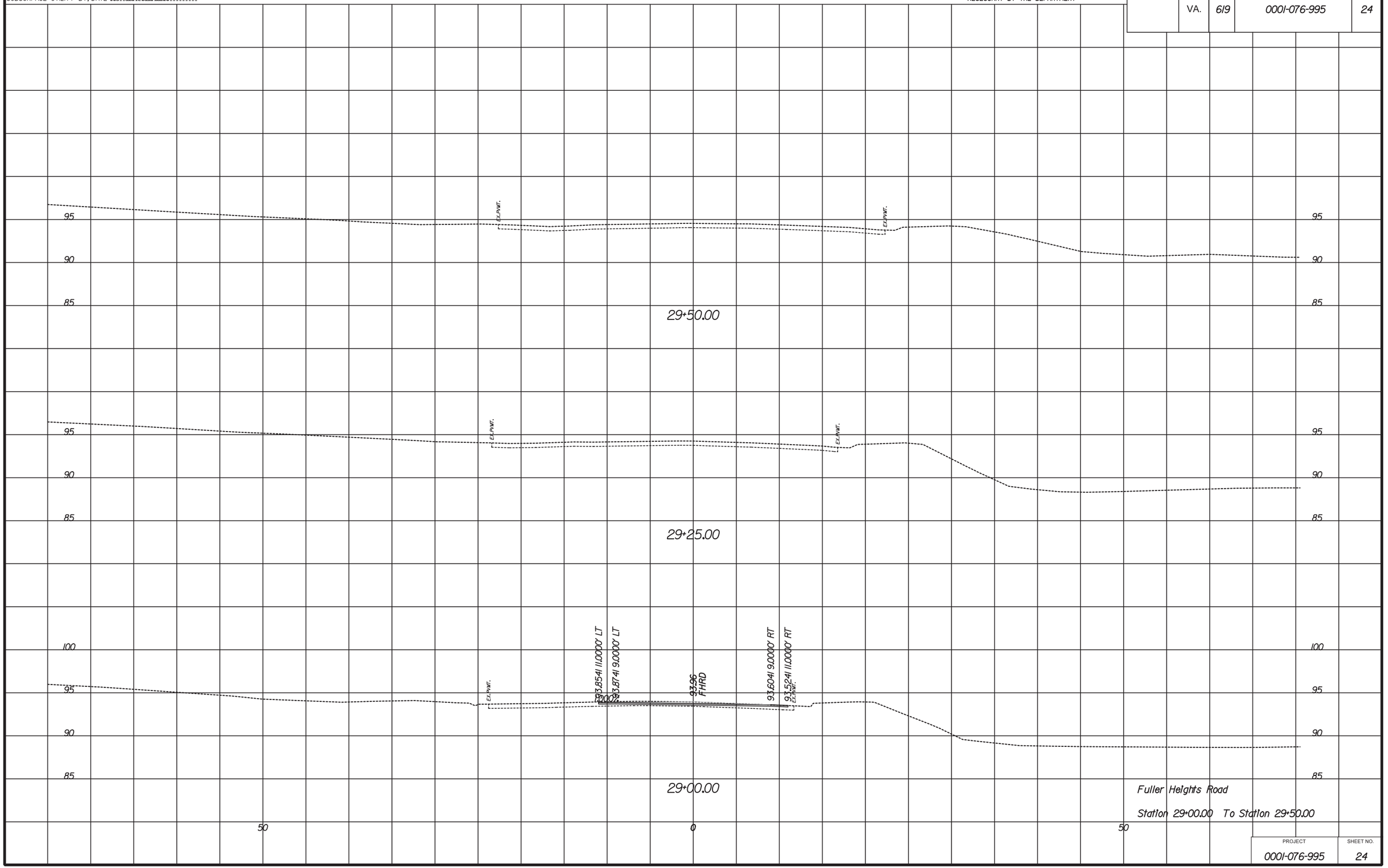
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	24



Fuller Heights Road

Station 29+00.00 To Station 29+50.00

PROJECT	SHEET NO.
0001-076-995	24

XSHT_FHCONN.dgn
11:47:04 AM

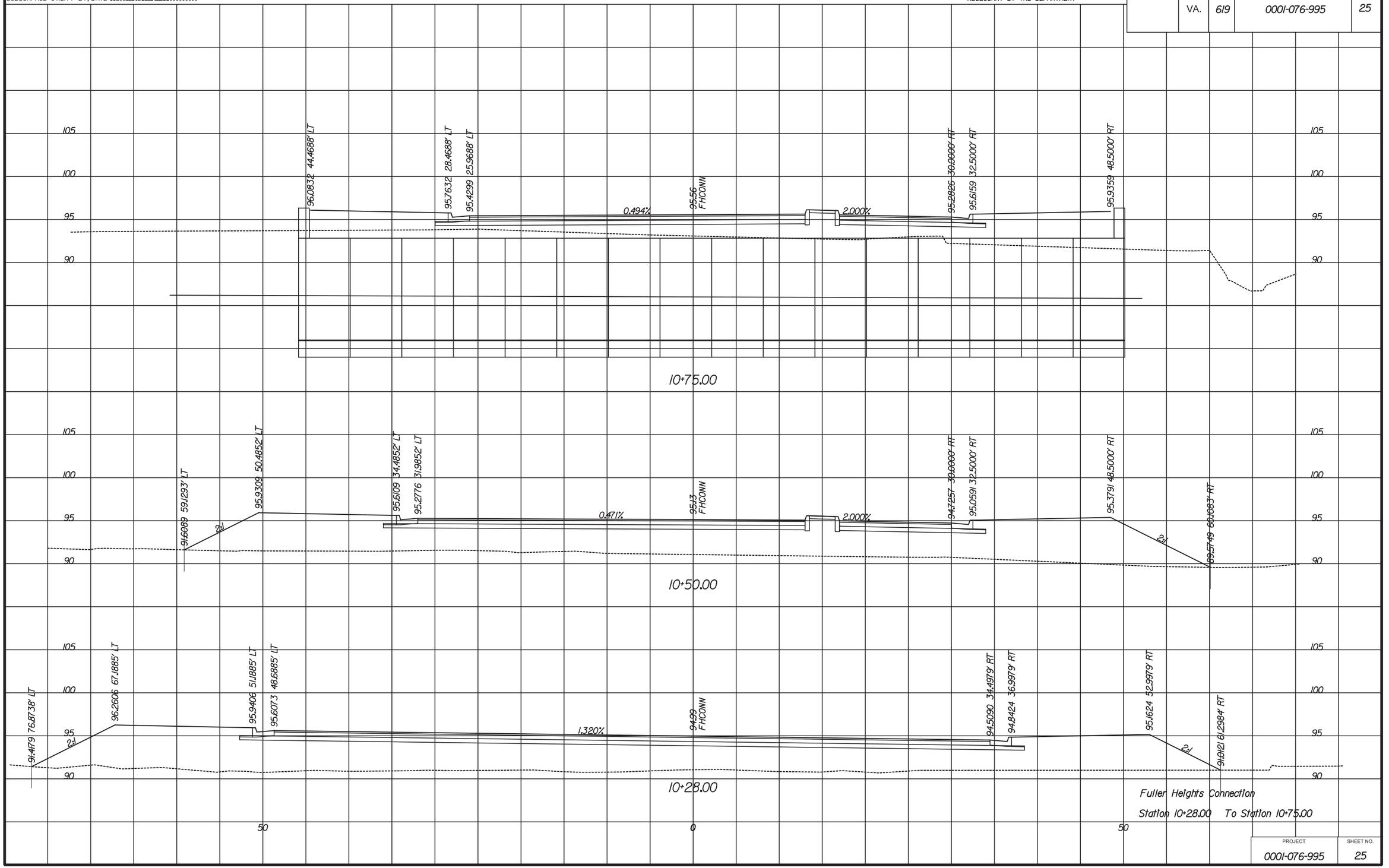
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	25



Fuller Heights Connection

Station 10+28.00 To Station 10+75.00

PROJECT	SHEET NO.
0001-076-995	25

XSHT_FHCONN.dgn
11:47:04 AM

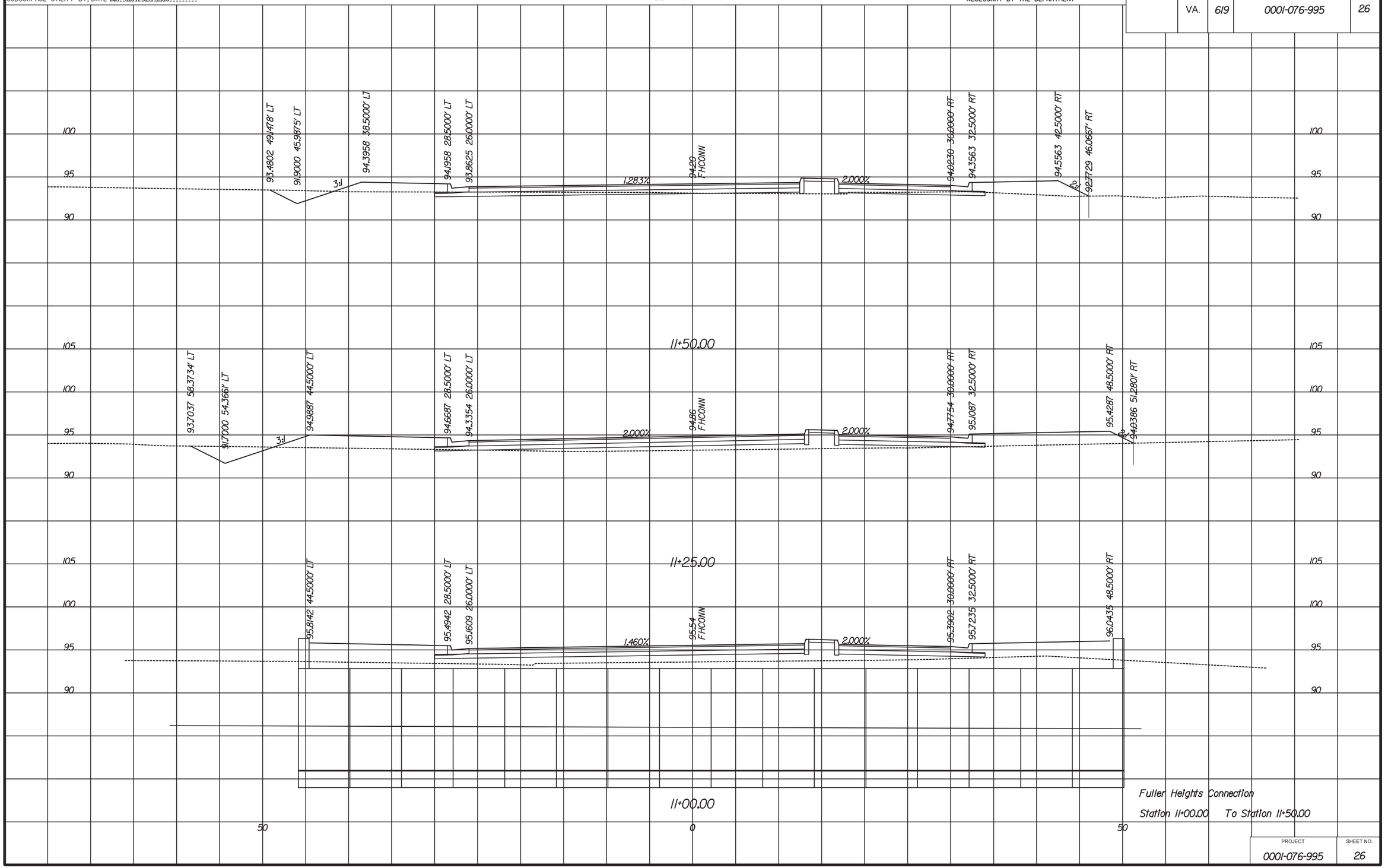
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	26



Fuller Heights Connection

Station 11+00.00 To Station 11+50.00

PROJECT	SHEET NO.
0001-076-995	26

XSHT_FHCONN.dgn
11:47:04 AM

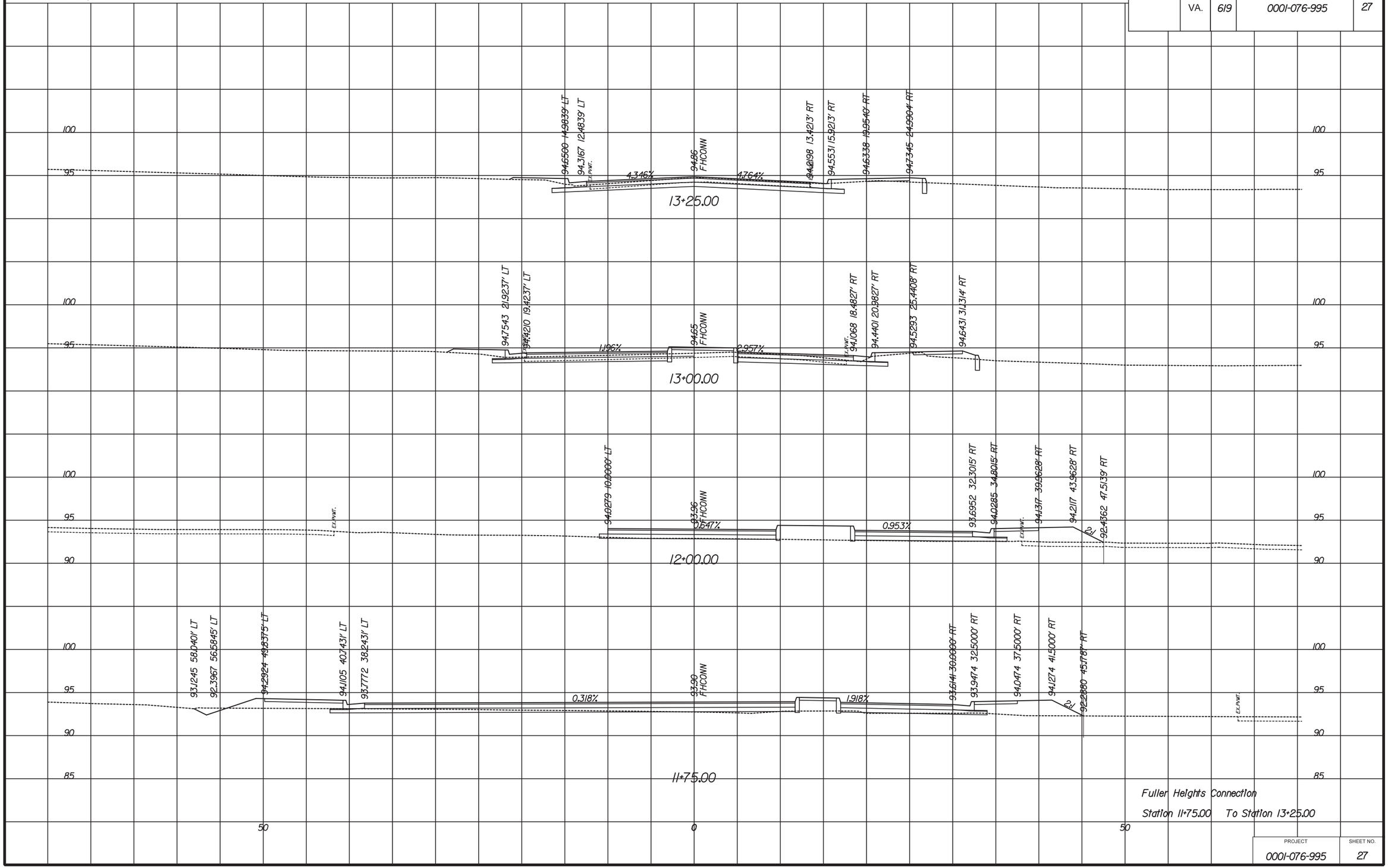
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	27



Fuller Heights Connection

Station 11+75.00 To Station 13+25.00

PROJECT	SHEET NO.
0001-076-995	27

XSHT_FHCONN.dgn
11:47:04 AM

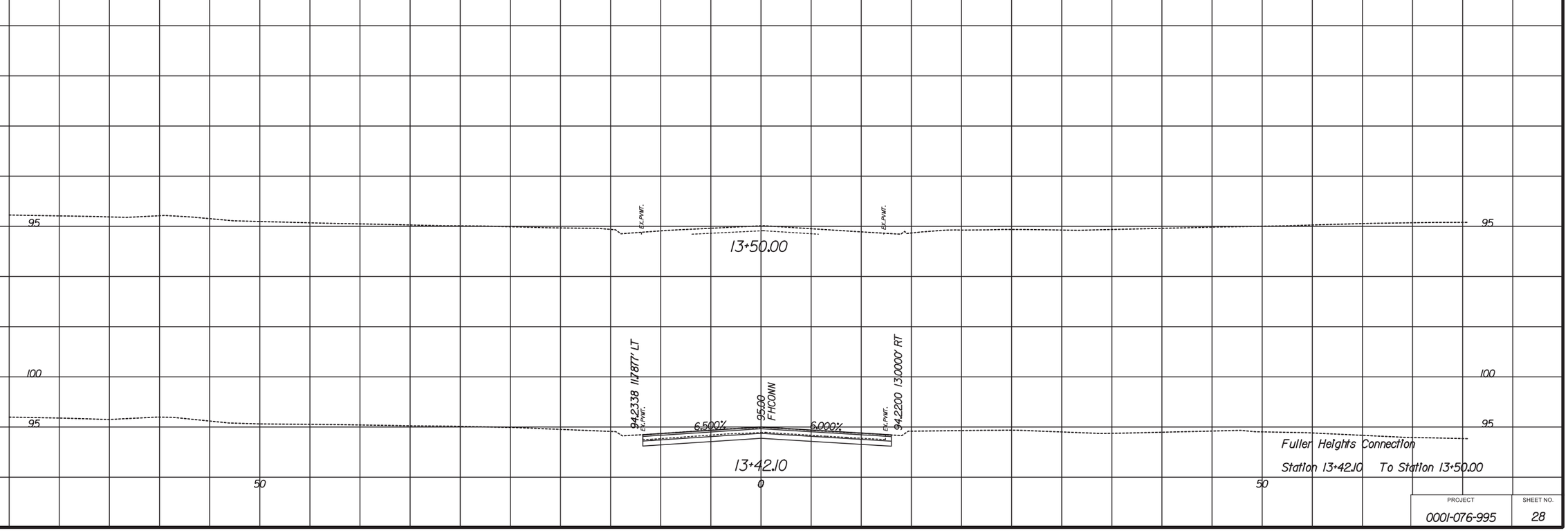
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6/9	0001-076-995	28



Fuller Heights Connection

Station 13+42.10 To Station 13+50.00

PROJECT	SHEET NO.
0001-076-995	28

XSHT_CIRCLE.dgn
11:47:06 AM

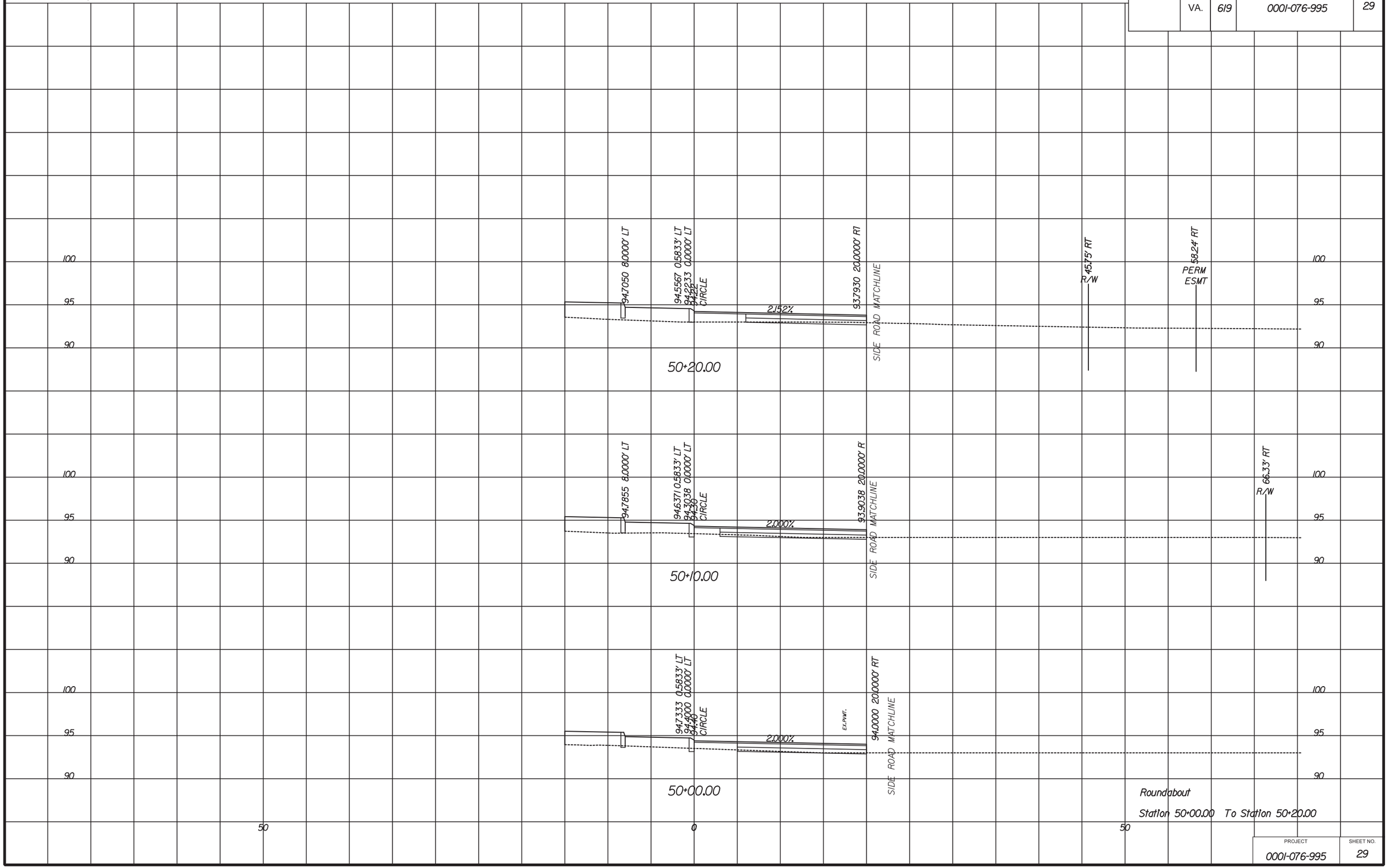
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	29



Roundabout

Station 50+00.00 To Station 50+20.00

PROJECT	SHEET NO.
0001-076-995	29

XSHT_CIRCLE.dgn
11:47:06 AM

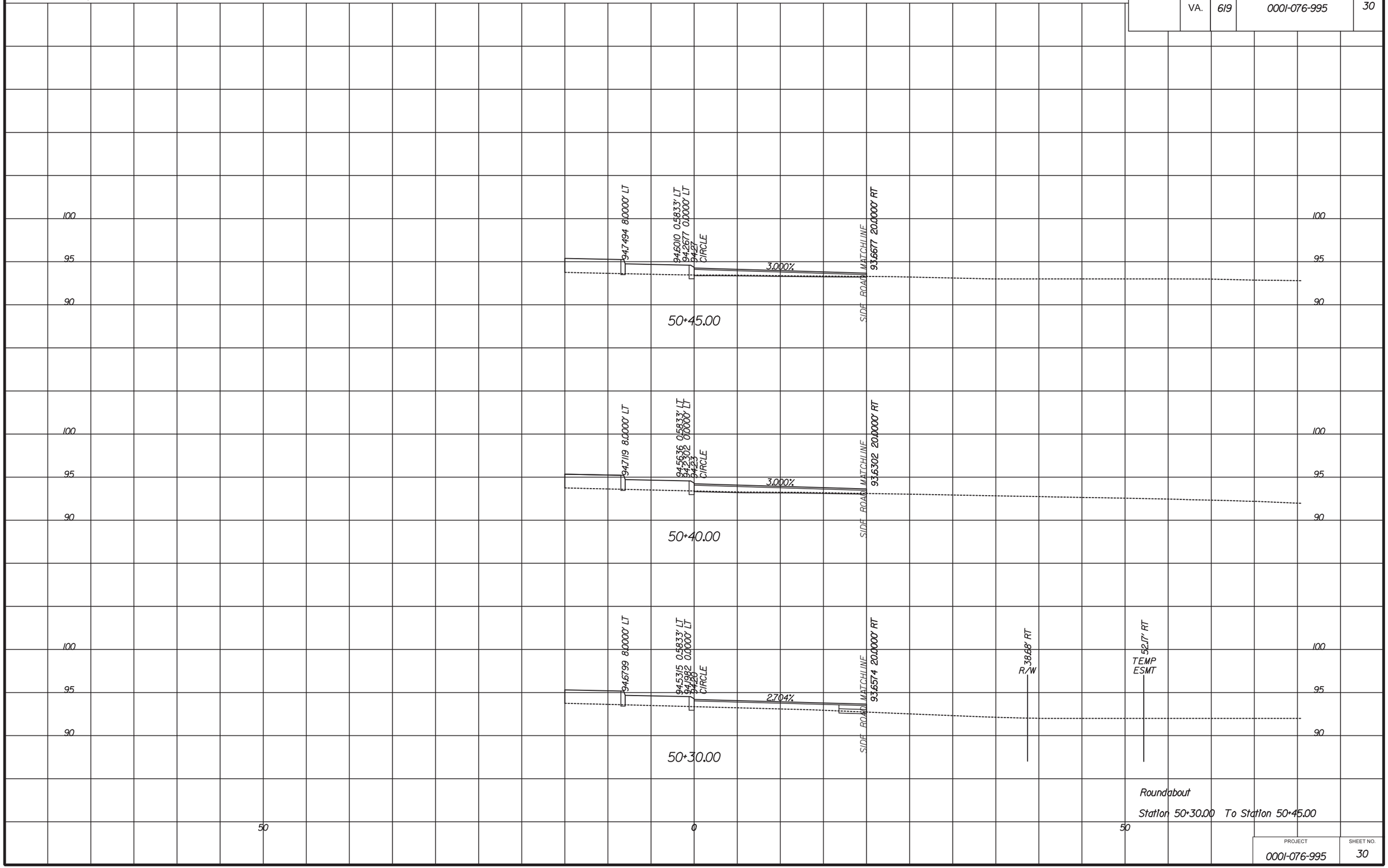
PROJECT MANAGER Gladis Arbaleda,PWC_DOT, (703) 792-5276
SURVEYED BY, DATE JMT, (804) 323-9900
DESIGN BY JMT, (804) 323-9900
SUBSURFACE UTILITY BY, DATE JMT, (804) 323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	30



Roundabout

Station 50+30.00 To Station 50+45.00

PROJECT	SHEET NO.
0001-076-995	30

XSHT_CIRCLE.dgn
11:47:06 AM

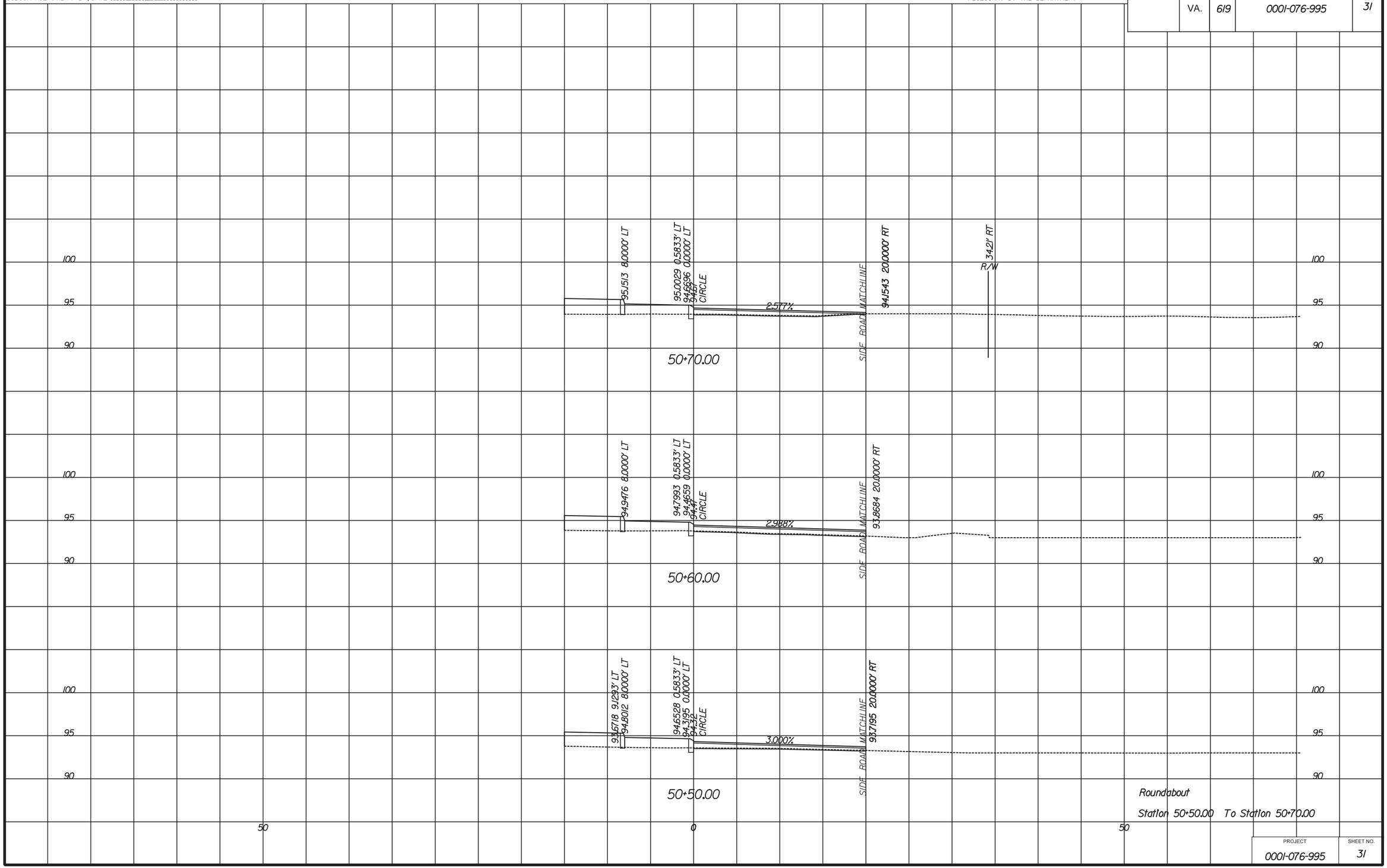
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	31



Roundabout

Station 50+50.00 To Station 50+70.00

PROJECT	SHEET NO.
0001-076-995	31

XSHT_CIRCLE.dgn
11:47:06 AM

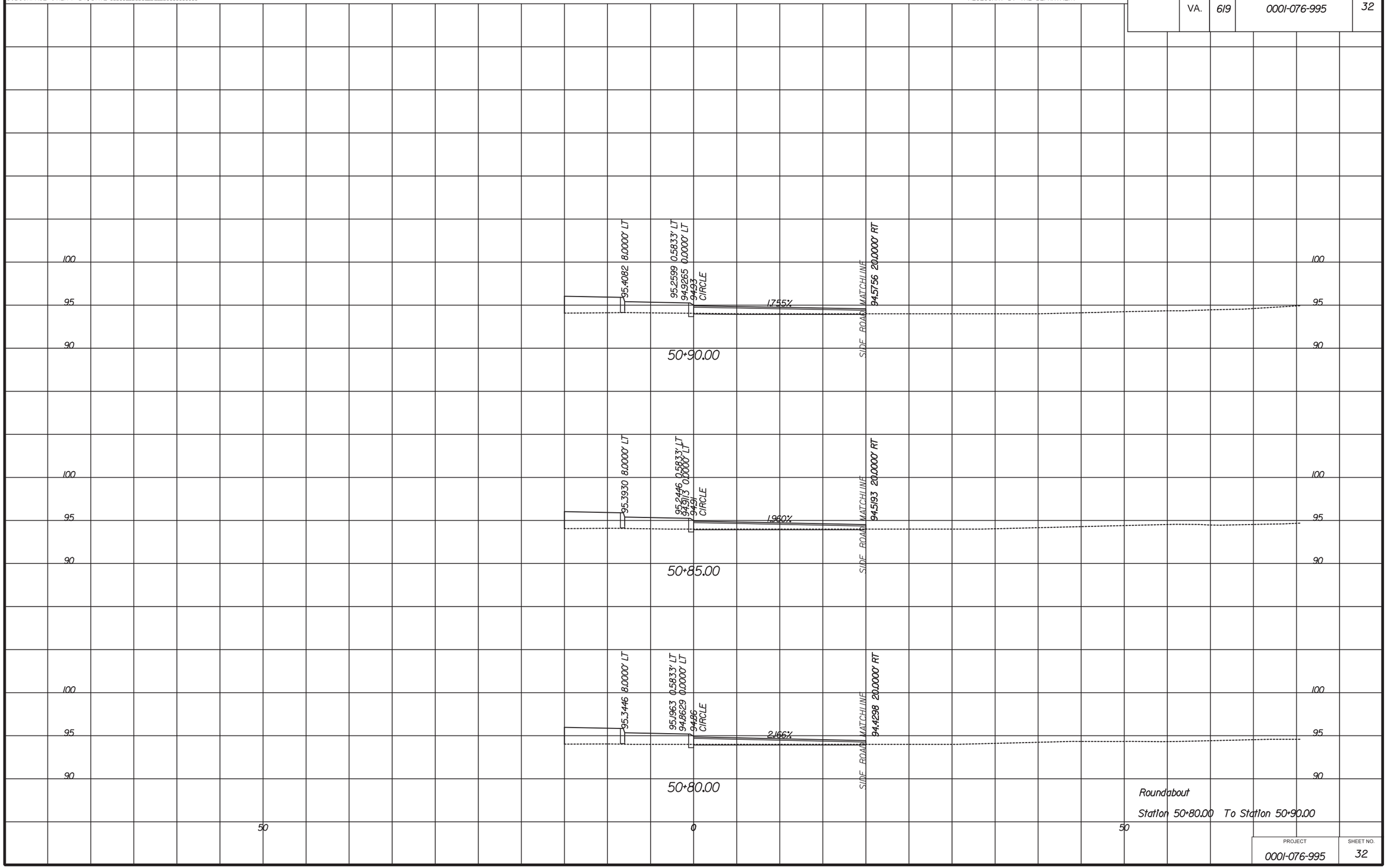
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	32



Roundabout

Station 50+80.00 To Station 50+90.00

PROJECT	SHEET NO.
0001-076-995	32

XSHT_CIRCLE.dgn
11:47:06 AM

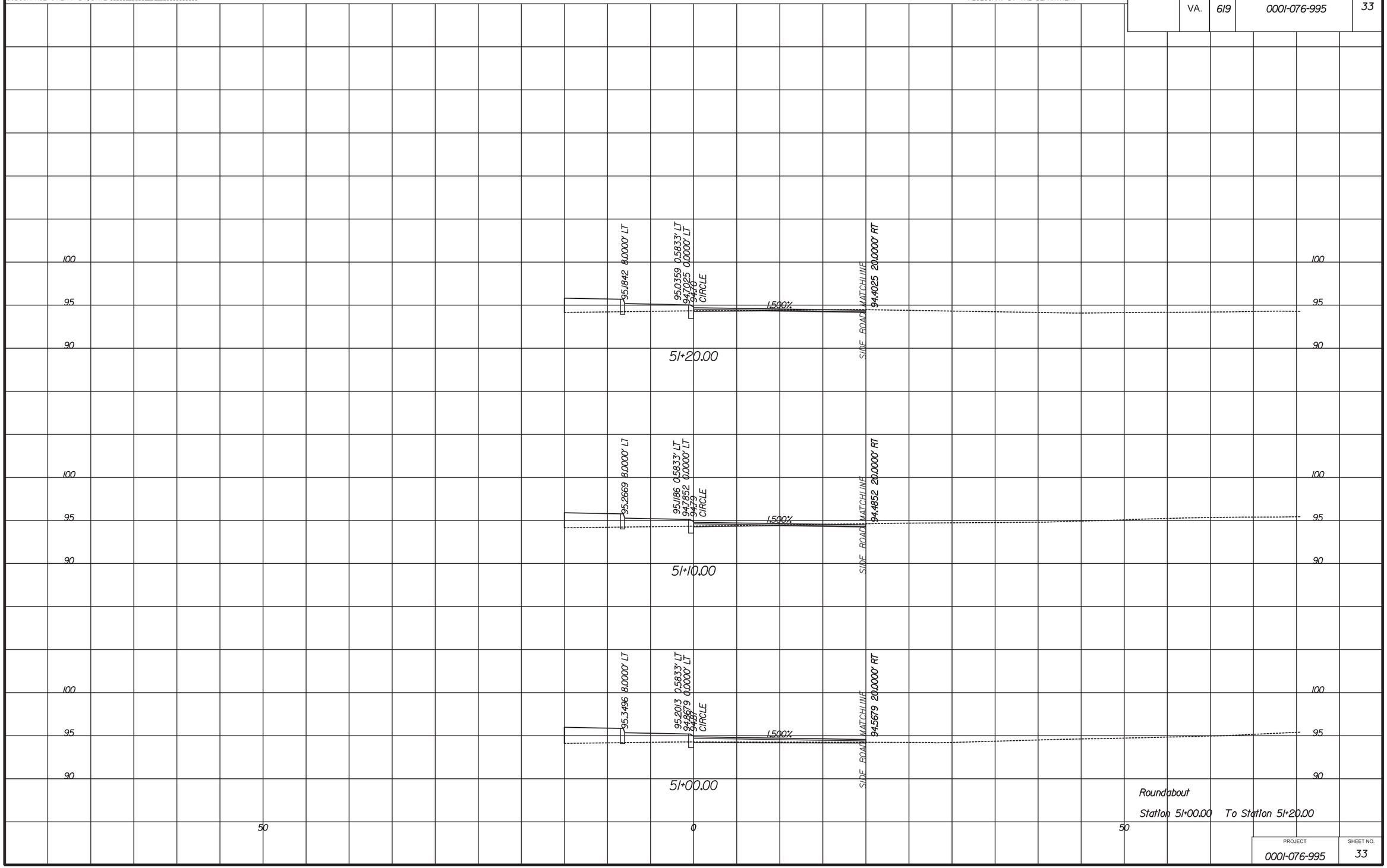
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	33



Roundabout

Station 51+00.00 To Station 51+20.00

PROJECT	SHEET NO.
0001-076-995	33

XSHT_CIRCLE.dgn
11:47:06 AM

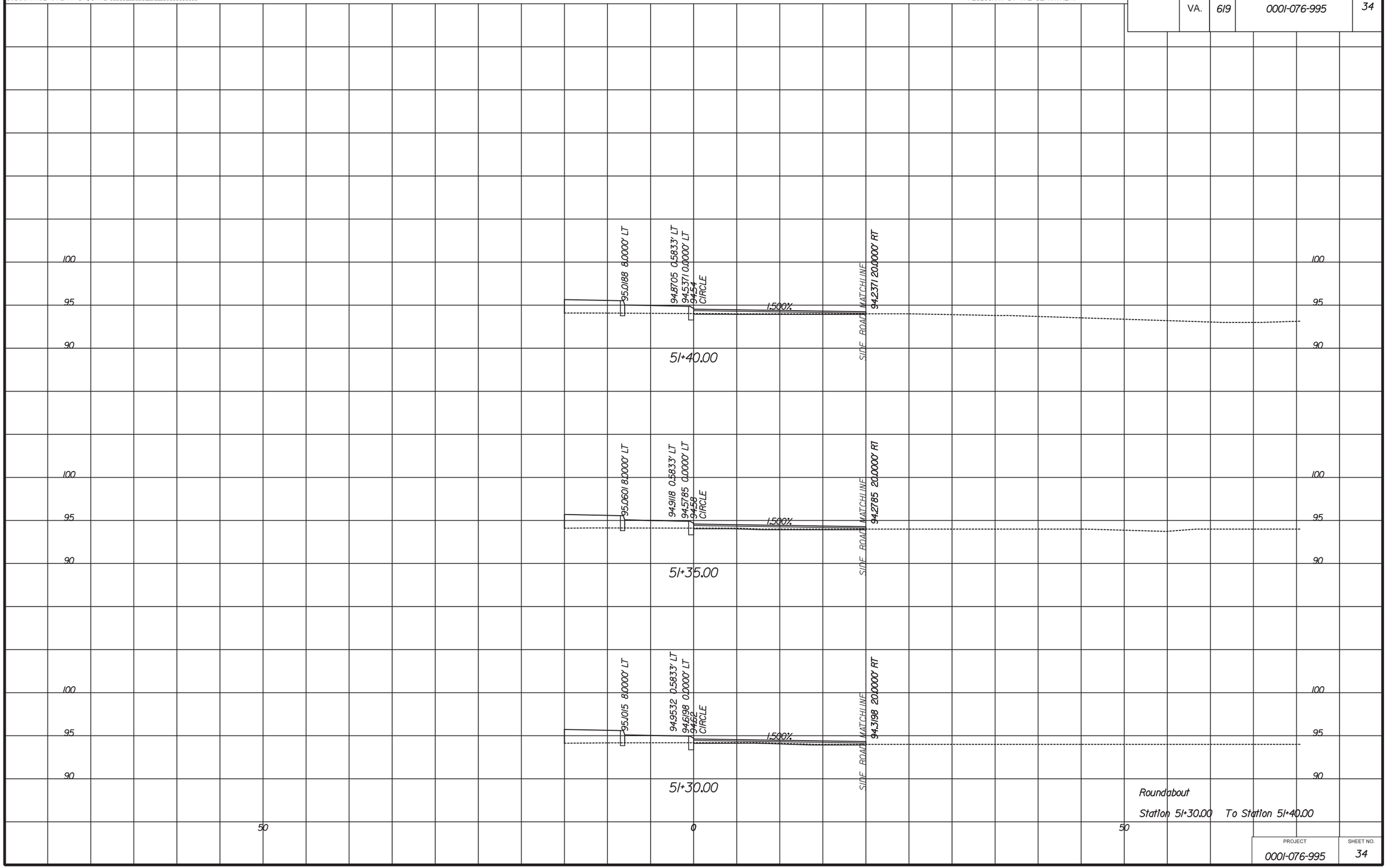
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	34



Roundabout

Station 51+30.00 To Station 51+40.00

PROJECT	SHEET NO.
0001-076-995	34

XSHT_CIRCLE.dgn
11:47:07 AM

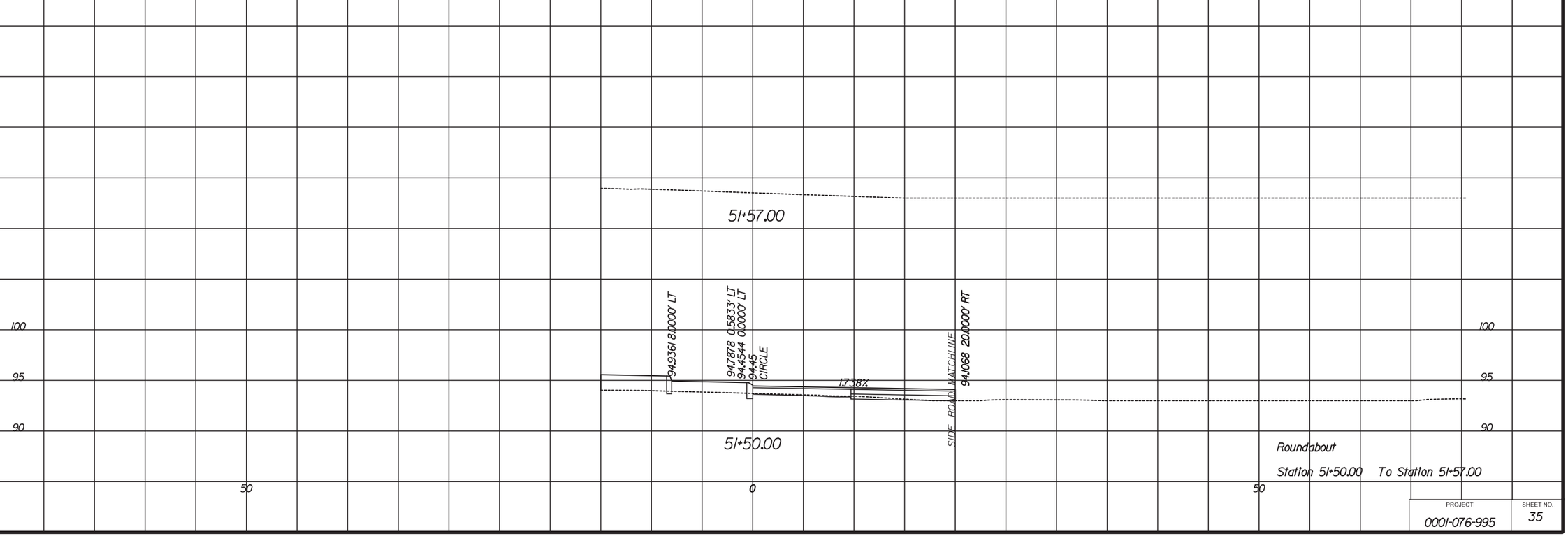
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	35



Roundabout

Station 51+50.00 To Station 51+57.00

PROJECT	SHEET NO.
0001-076-995	35

XSHT_STREAM.dgn
11:47:09 AM

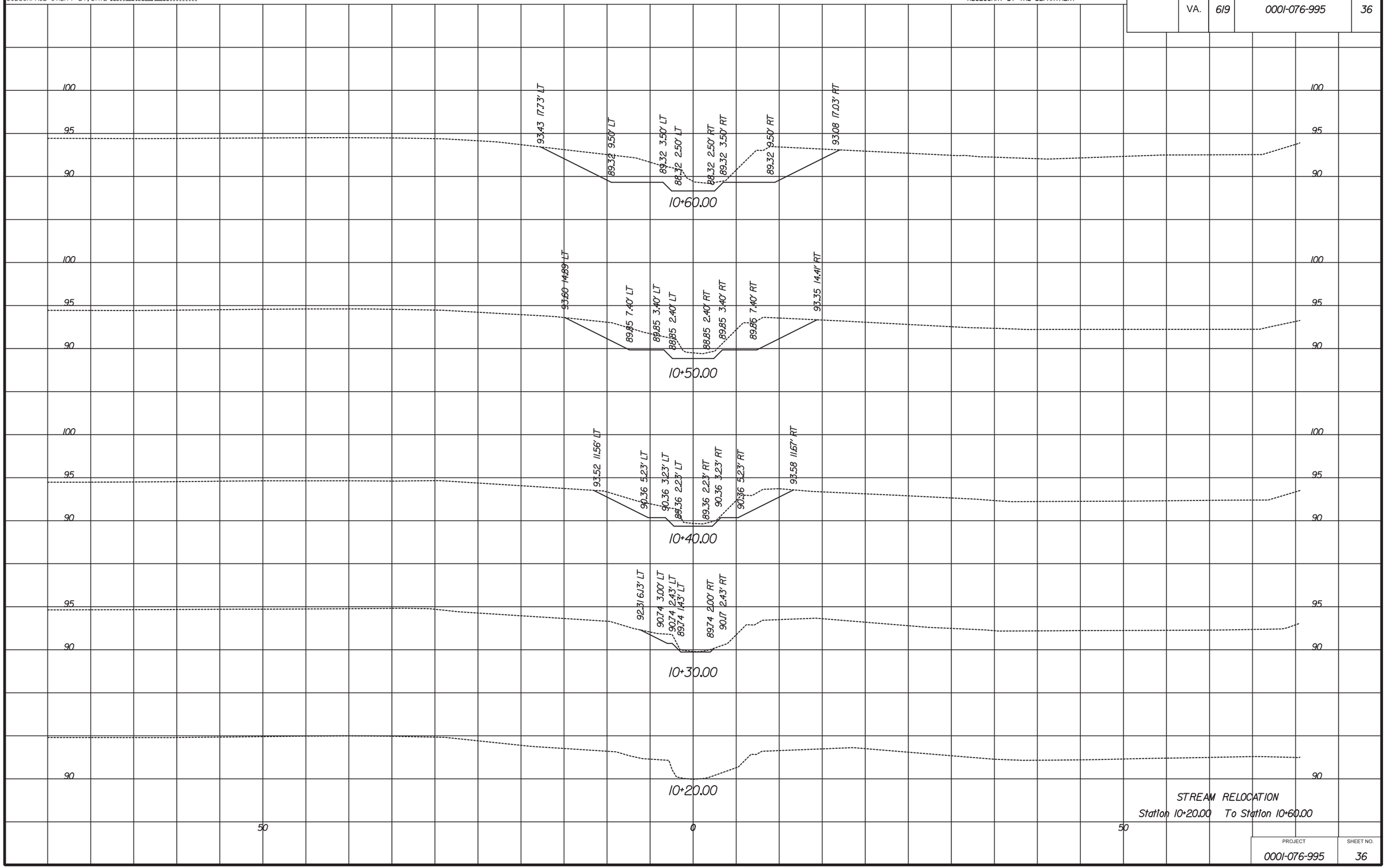
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	36



STREAM RELOCATION
Station 10+20.00 To Station 10+60.00

PROJECT	SHEET NO.
0001-076-995	36

XSHT_STREAM.dgn
11:47:09 AM

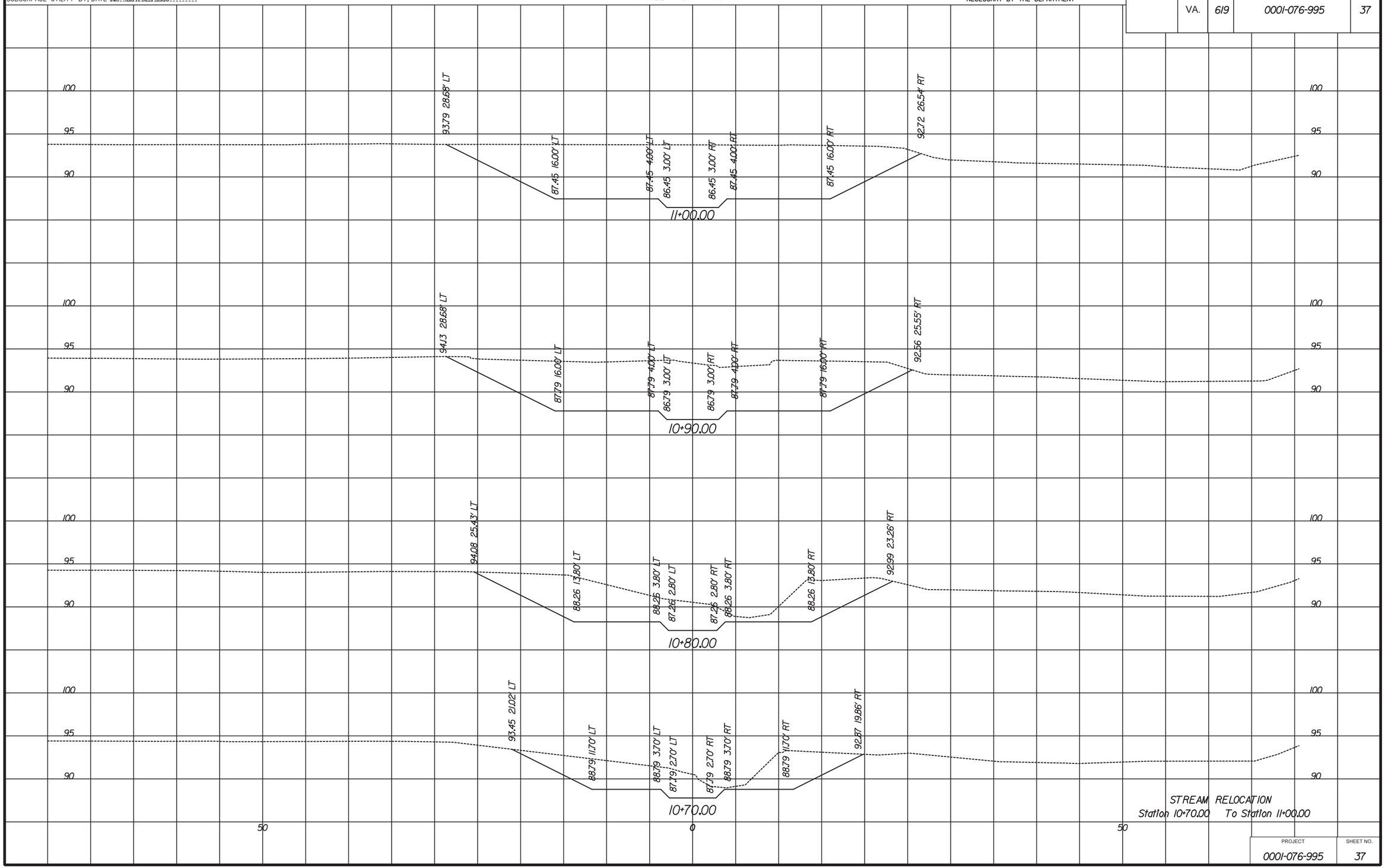
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	37



STREAM RELOCATION
Station 10+70.00 To Station 11+00.00

PROJECT	SHEET NO.
0001-076-995	37

XSHT_STREAM.dgn
11:47:09 AM

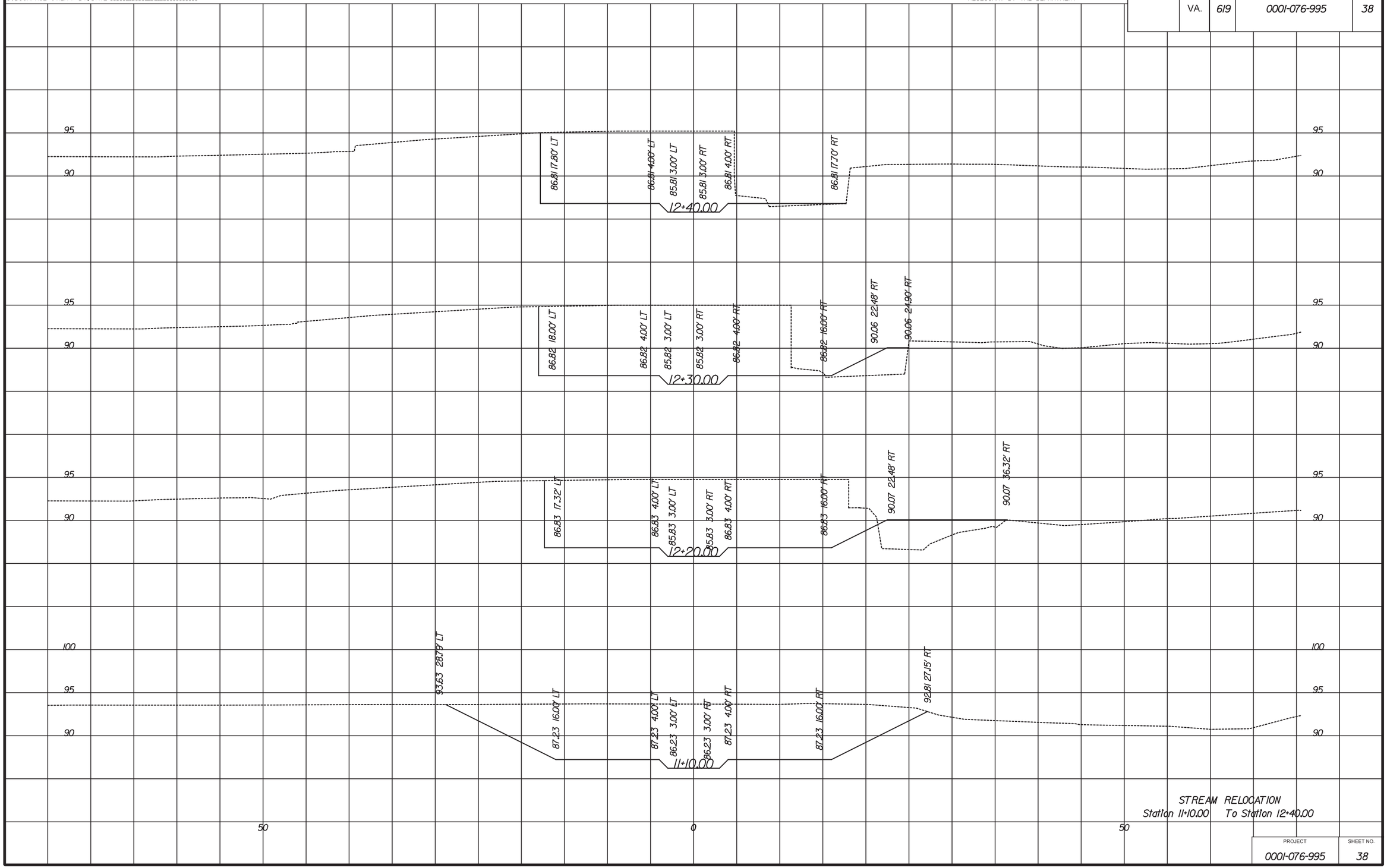
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	38



STREAM RELOCATION
Station 11+10.00 To Station 12+40.00

PROJECT	SHEET NO.
0001-076-995	38

XSHT_STREAM.dgn
11:47:09 AM

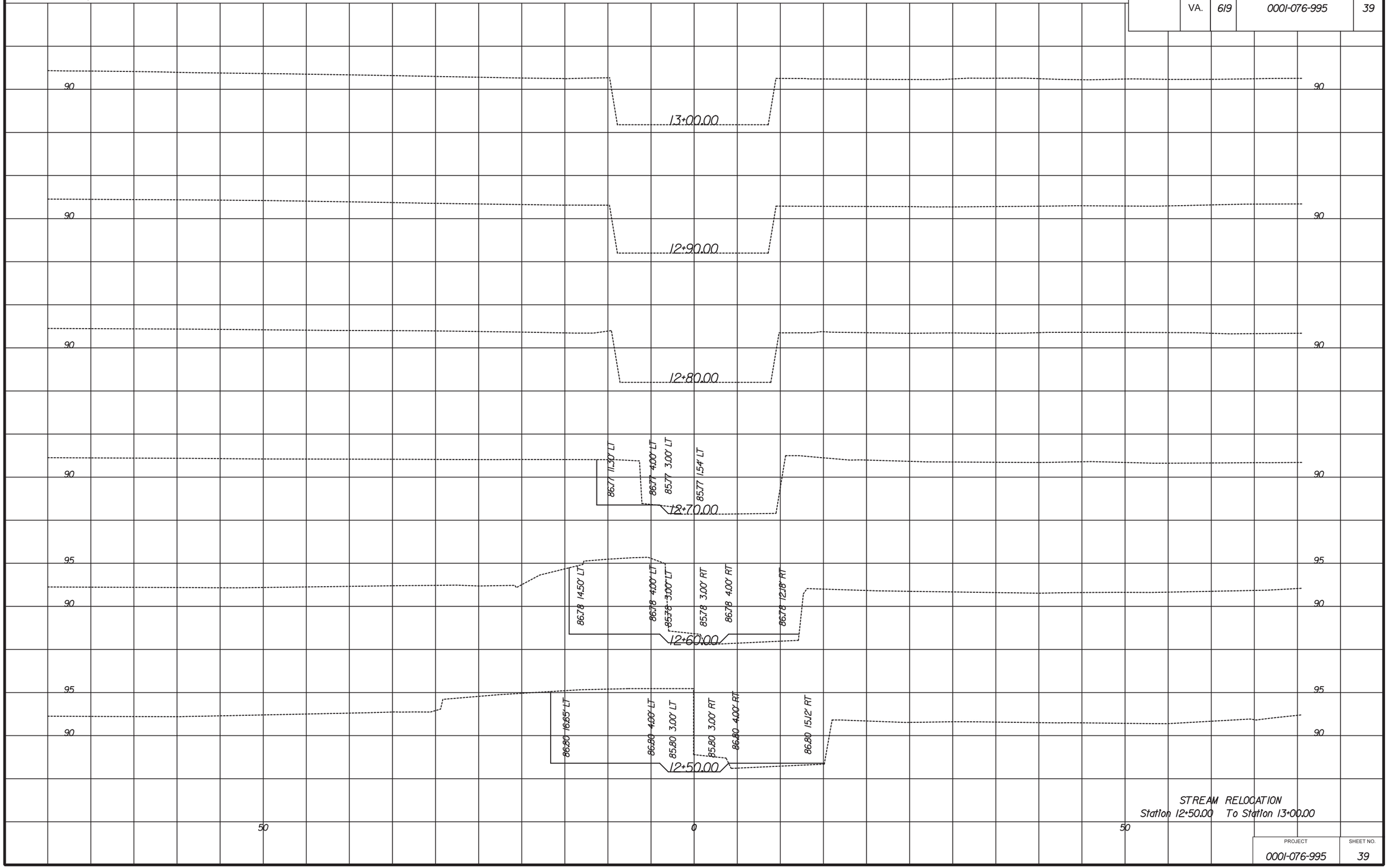
PROJECT MANAGER Gladis Arbaleda,PWC DOT (703)792-5276
SURVEYED BY, DATE JMT (804)323-9900
DESIGN BY JMT (804)323-9900
SUBSURFACE UTILITY BY, DATE JMT (804)323-9900

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	619	0001-076-995	39



STREAM RELOCATION
Station 12+50.00 To Station 13+00.00

PROJECT	SHEET NO.
0001-076-995	39