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FHWA-534 PPMS-11555

COMMONWEALTH OF VIRGINIA



PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

## PRINCE WILLIAM COUNTY \*See Plan and Profile Shee AND OCCOQUAN ROAD INTERSECTION IMPROVEMENT FR: 0.085 MI. EAST OF RTE. 253

TO: 0.104 MI. WEST OF RTE. 253

PROJECT 0641-076-301, P101, R201, C501 ----CHARLES OLD BRIDGE RD (RTE. 641) TO MANASSAS DESCRIPTION REFERENCE RTE. 641 STA. 106+91.56 RTE. 253 STA. 202+70.48 OCCOQUAN SCALE 100' 200' POPULATION 470,335 (2019 CENSUS) LENGTH EXCLUDING LENGTH INCLUDING STATE FEDERAL AID | TYPE PROJECT NO. | CODE | PPMS TYPE BRIDGE(S) BRIDGE(S) SECTION PROJECT NO. PROJECT NO. MILES FEET MILES FEET 0.284 P-101 | STP-5B01(129) | PENG | 115553 | 1,500 1,500 0.284 301  $\cdot \diamond \phi \phi \phi \phi$ 1,500 —•• —— T/Tg ——•• — R-201 | STP-5B01(230) | ROWA | 115553 | 0.284 1,500 0.284 0641-076 ) F000 | 115553 | C-501 | STP-5B01( 1,500 0.284 1,500 0.284 

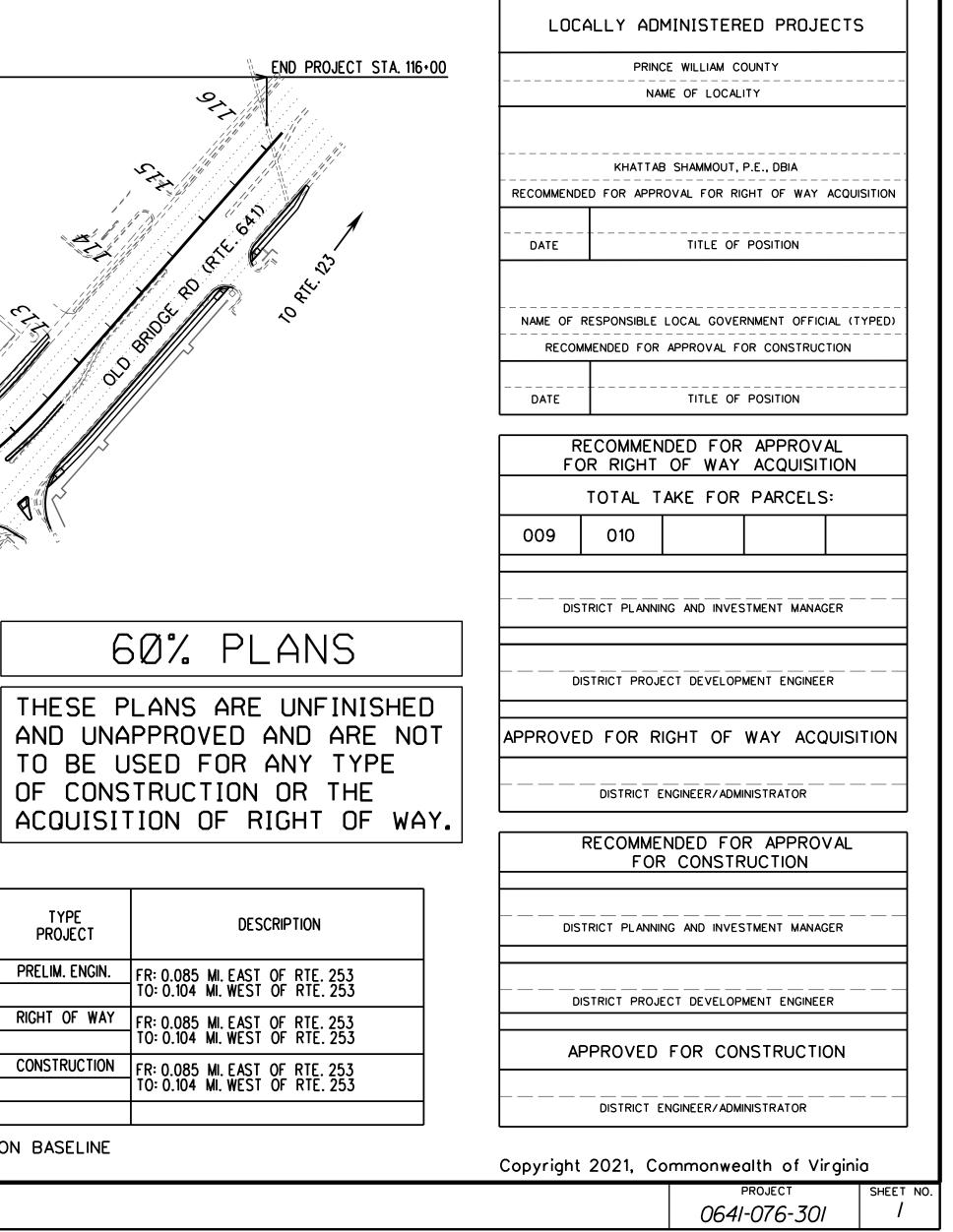
NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

dll55530l.dgn Plotted By: jthompson

		STATE	FEDERAL AID		STATE	SHEET	
		517/12	PROJECT	ROUTE	PROJECT	NO.	
	A 4400A	VA.	STP-5B01( )	641	0641-076-301	<b>,</b>	
DATA 44004 3		v ~.	SEE TABULATIONS BELOW FOR SECTION NUMBERS	ודט	SEE TABULATIONS BELOW FOR SECTION NUMBERS	/	
	FUNCTIO				TRAFFIC DATA		
		OLD	BRIDGE ROAD (RTE.	641)	OCCOQUAN ROAD (RTE.	253)	
	NON-NHS	-DIVI	MINOR ARTERIAL(GS DED-ROLLING-40 MP MIN.DESIGN SPEED	GS-6) URBAN MAJOR COLLECTOR( PH -DIVIDED-ROLLING-30 MI MIN.DESIGN SPEED			
					FR: 0.038 MI. SOUTH OF F TO: 0.059 MI. NORTH OF F		
	ADT (2019)		53,000		13,000		
	ADT (2045)		68,649		16,838 1,482		
	DHV		5,149				
	D (%) (design hour)		88%	71%			
	T (%) (design hour)		2%	2%			
	V (MPH)	*			*		

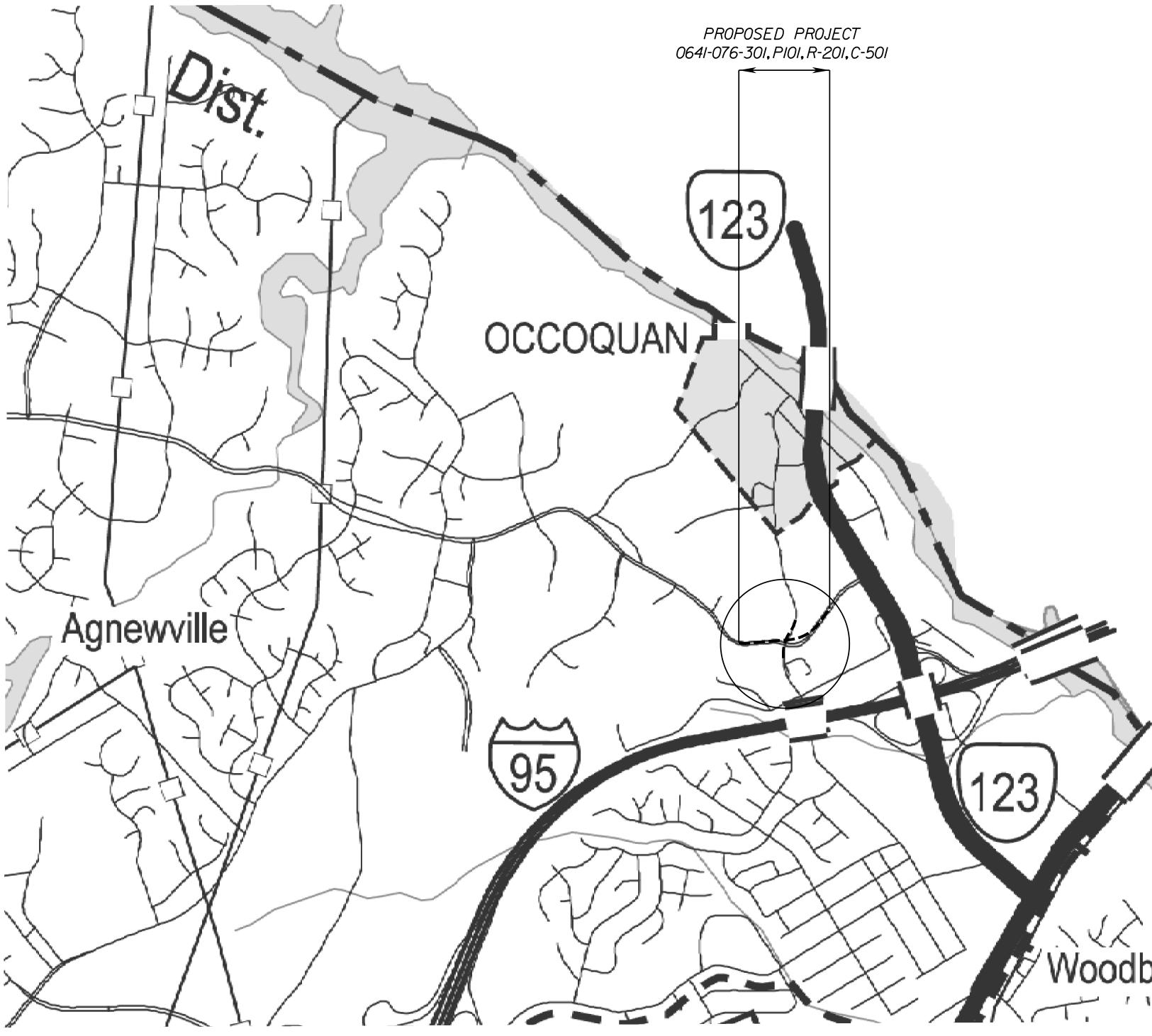
🟶 See Plan and Profile Sheets for horizontal and vertical curve design speed data

VDOT SHALL MAINTAIN ALL PROPOSED FACILITIES WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY TIER 1 PROJECT



11/12/2021 5:32:06 PM

PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>



# LOCATION MAP PRINCE WILLIAM COUNTY

### dll55530la.dgn Plotted By: jthompson

	REVISED	STATE		STATE		SHEET NO.
			ROUTE	PROJECT	1	
				~~	ALOTE TO	,
		VA.	641	06	41-076-301	;
		VA.		R	:41-076-301 ?-201 <b>,</b> C-501	4 <b>/</b> /
	DESIGN EEAT			CONSTRUCTION		
	OR TO REGULA					
	MAY BE SUBJE	ст то с	HANGE AS	DEEMED		
	NECESSARY BY	THE DE	PARTMENT			
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				JCTION OR		
				N OF RIGH		VAY.
		_				
		NTS	•	PROJEC 0641-076		SHEET NO.
		141 3	,			

# PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>

SHEET NO.	DESCRIPTION
/	TITLE SHEET
IA	LOCATION MAP
IB	INDEX OF SHEETS
IC	RIGHT OF WAY DATA SHEET
ID	REVISION DATA SHEET
IE	SURVEY CONTROL DATA SHEET
IF	CONSTRUCTION ALIGNMENT DATA SHEET
IG	UNDERGROUND UTILITY TEST HOLE INFORMATION
IH(I)	TEMPORARY TRAFFIC CONTROL PLAN (TTC)-GENER
IH(3) - IH(6)	TEMPORARY TRAFFIC CONTROL PLAN (TTC) - PHASE
IH(3A) - IH(6A)	DRAINAGE INSTALLATION PLAN - PHASE I
IH(7) - IH(10)	TEMPORARY TRAFFIC CONTROL PLAN (TTC) - PHASE
IH(7A) - IH(IOA)	DRAINAGE INSTALLATION PLAN - PHASE 2
IH(II) - IH(14)	TEMPORARY TRAFFIC CONTROL PLAN (TTC) - PHASE
IH(IIA) - IH(I4A)	DRAINAGE INSTALLATION PLAN - PHASE 3
IH(15) - IH(18)	TEMPORARY TRAFFIC CONTROL PLAN (TTC) - PHASE
IH(15A) - IH(18A)	DRAINAGE INSTALLATION PLAN - PHASE 4
IH(19)	TEMPORARY TRAFFIC SIGNAL PLAN
2	GENERAL NOTES
2A(1) - 2A(2)	TYPICAL SECTIONS
2A(3)	PAVEMENT BUILD-UP DETAIL
2B(I) - 2B(2)	DRAINAGE DESCRIPTION SHEETS
2C(1) - 2C(4)	STORM POLLUTION PREVENTION PLAN (SWPPP)
20(5)	PWC SWPPP
20(6)	NUTRIENT CREDIT PURCHASE
2D(1)	EROSION & SEDIMENT CONTROL NARRATIVE AND N
2D(2)	EROSION & SEDIMENT CONTROL GENERAL NOTES
2D(3)	EROSION & SEDIMENT CONTROL SOILS MAP
2D(4)	TEMPORARY SEEDING TABLE
3 - 6	PLAN SHEETS
3A - 6A	PROFILE SHEETS
3B(I) - 6B(2)	EROSION AND SEDIMENT CONTROL PLANS (PHASES
7(1) - 7(7)	STORM SEWER PROFILE SHEETS
8	ENTRANCE PROFILE
9(1) - 9(2)	SIGNAL PLANS
10(1) - 10(6)	PAVEMENT MARKING AND SIGNING PLANS

TOTAL CROSS SECTION SHEETS 28 (SEE CROSS SECTION SHEET NUMBER I FOR INDEX OF SHEETS)

# INDEX OF SHEETS

ERAL NOTES SE I

SE 2

SE 3

SE 4

NOTES

SES 1& 11)

### d1155530lb.dgn Plotted By: jthompson

	REVISED	STATE		STATE	E	SHEET NO
		STATE	ROUTE	PF	ROJECT	SHEET NO
		VA.	641		0641-076-3	
					R-201,C-5	
			ATING TO CO		1	
MA	Y BE SUBJE	ЕСТ ТО С	) CONTROL ( HANGE AS D			
NE	CESSARY BY	' THE DE	PARTMENT			
						]
			607	L H	ANS	
	 Г т і	HF¢F		S ARF	UNFINIS	
					AND ARE	
	T (	O BE	USED	FOR 4	ANY TYPE	
					OR THE	
			STITON	UF KI	GHT OF	WAY.
		N/A			roject - <b>076-301</b>	SHEET NO.

11/12/2021 5:32:54 PM

PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>

	LANDOWNER			AREA (Areas gr	eater than or eq	ualto 1 acre v	vill be shown in acres	to 3 decimal	places (x.xxx)	. Areas less	than 1 acre will be
PARCEL NO.		SHEET NO.			PRESCF					EAS	EMENTS
			TOTAL	FEE TAKING	R/W	V	FEE REMAINDER	PER	MANENT	UTI	LITY
			ACRES OR SQUARE FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS
001	CNM OLD BRIDGE, LLC	3	1.81778 AC	925 SF			1.797 AC				
002	MANAS WOODBRIDGE, LLC	3,4	13,264 SF	1862 SF			11,402 SF				
003	T-COURT INVESTMENTS, LLC	4	0.43 AC	2020 SF			16,711 SF				
004	MCDONALD'S CORPORATION	3,4	2.4955 AC	22 SF			2,495 AC				
005	DOMINION CONVENIENCE CENTER, LLC	4,5	1.31179 AC	526 SF			1.300 AC				
006	PUBLIC STORAGE, INC., TRUSTEE	5	5.00378 AC	1854 SF			4.961 AC				
007	1470 OLD BRIDGE PROPERTY, LLC	4	1.2882 AC	2166 SF			1.238 AC				
008	AEROMARITIME INVESTMENT COMPANY	4,6	0.53691 AC	9895 SF			13,493 SF				
009 ж	XUANJOE, LLC	4,5,6	0.7436 AC	32,038 SF			0				
010	1420 OLD BRIDGE PROPERTY, LLC	4,5	0.2583 AC	11,250 SF			0				
011	NOUR ASSOCIATES, LLC & MIRWEIS TARZI	5,6	0.5651 AC	1,782 SF			22,833 SF				
012	HIEU P. NGUYEN & NHI Y. LE	5	0.4591 AC	124 SF			19,874 SF				
013	XUANJOE, LLC	5,6	0.1324 AC	118 SF			5,649 SF				

\* EARLY ACQUISITION - TOTAL TAKE

# PRELIMINARY RIGHT OF WAY DATA SHEET

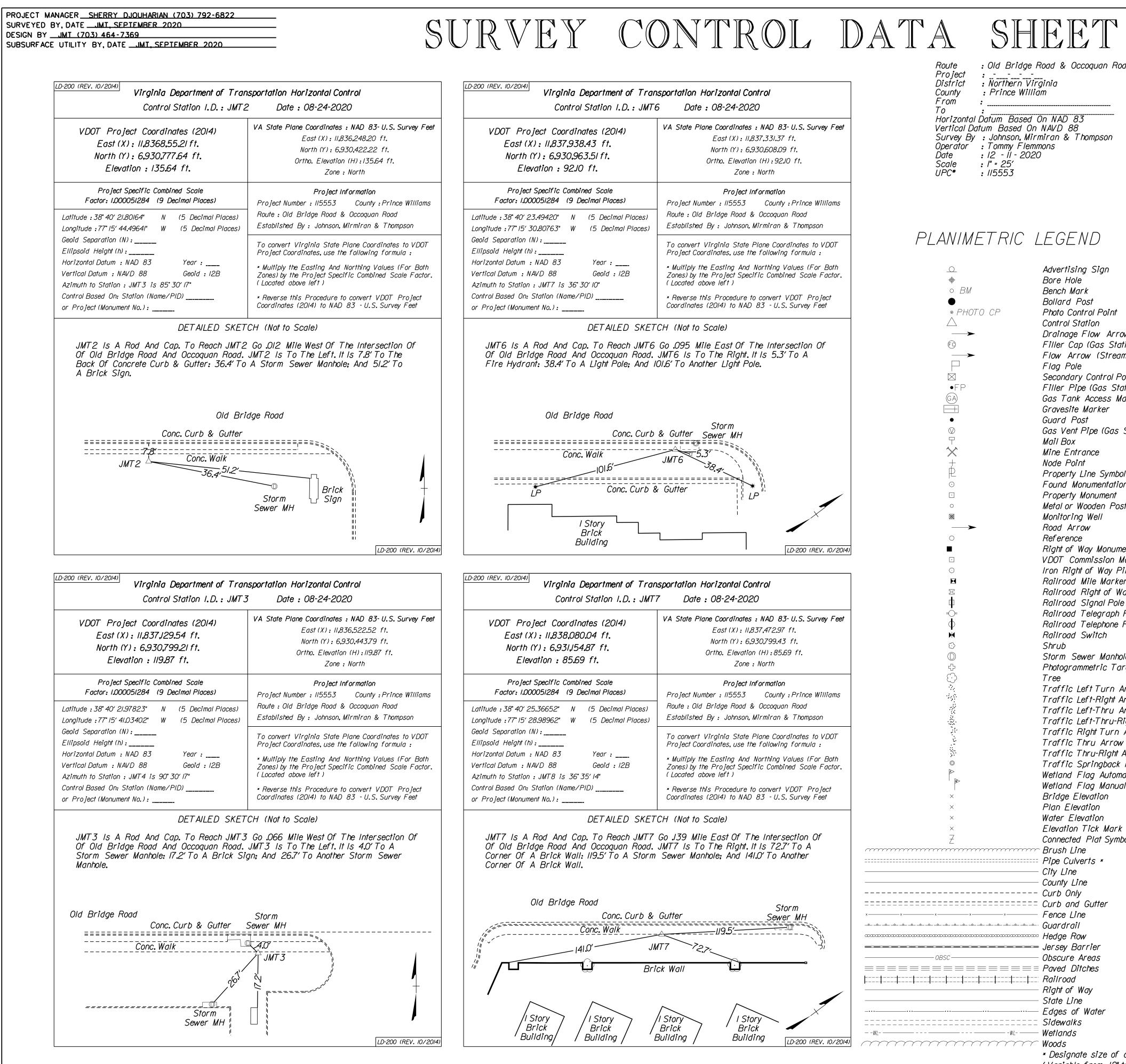
### dll55530lc.dgn Plotted By: jthompson

						OTATE		
			EVISED	STATE	ROUTE	STATE PR	OJECT	SHEET NO.
							0641-076-30ł	
				VA.	641		R-201,C-501	IC
		DESI	GN FEATU	L RES REL	ATING TO	CONSTRUCTION		
		OR T	O REGULA	TION AN	D CONTRO	OL OF TRAFFIC		
			be subje Ssary by			S DEEMED T		
				-+ I				
						e william		
		UPC	C No.:	1155	53			
will be shown to square	feet (x,x;	(x).)						
					PROFFE	RS		
TEMPORARY	TEMPORA	ARY(F		SES)				
ACRES OR	ACRES		HECTAR					
SQ. FEET	SQ. FEE	т	OR SQ.MET		ΈS / Ν			
0.70.05		· ·						
632 SF					NO			
1,137 SF					NO			
1,404 SF					NO			
133 SF					NO			
2,516 SF					NO			
3,124 SF					NO			
					NO			
5,325 SF								
7,683 SF					NO			
					NO			
					NO			
5,645 SF					NO			
508 SF					NO			
2,277 SF					NO			
					60	0% PL		
			Т				UNFINISH	
							ND ARE N	
								יטי
							NY TYPE	
						UCTION		
			A(	JUUIS	51 10	N UF RI	GHT OF W	AY.
		г	L				OJECT	SHEET NO.
				N/A			076-301	IC

DESIGN BYJMI (70.3) 464-7369         SUBSURFACE UTILITY BY, DATEIMI, SEPTEMBER 2020         REVISION DATA SHEET         State Project: 0641-076-301, R-201, C-501         Federal Project: STP-5B0/(129)         From: 0.085 MI, EAST OF RTE.253	PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u>				REVISED	STATE ROUTE	STATE PROJECT	SHEET NO.
	DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>						0641-076-3	50F
		REVISION D	ATA SHEET			VA.   64/	R-201,C-5	
	State Project: 064I-076-30I, R-20I, C-50I Federal Project: STP-5B0I(129) From: 0.085 MI. EAST OF RTE.253 To: 0.J04 MI. WEST OF RTE.253			OR MAY	TO REGULATI	on and control T to change as (	OF TRAFFIC	
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.								
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OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.					ANI   TO	J UNAPPRO BE USED	JVED AND ARE FOR ANY TYPE	NUI     E
PROJECT SHEET NO.					OF	CONSTRU	CTION OR THE	
PROJECT         SHEET NO.           N/A         O64I-076-30I         ID						JUIZIIIUN	-	
						N/A	PROJECT 0641-076-301	SHEET NO.

### dll55530ld.dgn Plotted By: jthompson

11/12/2021 5:33:21 PM



5	sportation Horizontal Control 6 Date: 08-24-2020
ect Coordinates (2014) ): 11,837,938.43 ft.	VA State Plane Coordinates : NAD 83-U.S. Survey Feet East (X) : 11,837,331.37 ft. North (Y) : 6,930,608.09 ft.
'): 6,930,963.51 ft. ation : 92.10 ft.	Ortho. Elevation (H):92.10 ft. Zone : North
Specific Combined Scale 1051284 (9 Decimal Places)	Project Information Project Number : II5553 County : Prince Williams
.49420" N (5 Decimal Places) D.80763" W (5 Decimal Places)	Route : Old Bridge Road & Occoquan Road Established By : Johnson, Mirmiran & Thompson
'): : NAD 83 Year :	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :
VD 88 Geoid : 12B JMT7 is 36° 30′ 10″	* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)
Station (Name/PID) nt No.) :	* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet
DETAILED SKET	CH (Not to Scale)
t: 38.4' To A Light Pole; And I Old Bridge Road	Ol.6' To Another Light Pole. Storm
Conc. Curb	
Conc. Walk	JMT6 38.4
Conc. Curb 8	Gutter
/ Story	
Brick Building	 [LD-200 (REV. 10/201-
Control Station I.D.: JMT	nsportation Horizontal Control 7 Date : 08-24-2020
ect Coordinates (2014)	VA State Plane Coordinates : NAD 83- U.S. Survey Feet East (X) : 11,837,472,97 ft.
):   ,838,080.04 ft. Y): 6,93 ,154,87 ft.	North (Y): 6,930,799.43 ft.
ntion: 85.69 ft.	Ortho. Elevation (H):85.69 ft. Zone : North
Specific Combined Scale 1051284 (9 Decimal Places)	Project Information Project Number : 115553 County : Prince Williams
.36652" N (5 Decimal Places) 3.98962" W (5 Decimal Places)	Route : Old Bridge Road & Occoquan Road Established By : Johnson, Mirmiran & Thompson
): :	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :
NAD 83 Year:	, Multiply the Easting And Northing Values (Ear Both
 VD 88	* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

Route Project District County	: Old Bridge Road & Occoquan Road : : Northern Virginia : Prince William
From	:
То	•
Horizonta	I Datum Based On NAD 83
Vertical D	atum Based On NAVD 88
Survey By	: Johnson, Mirmiran & Thompson
	: Tommy Flemmons
Date	: 12 - ÍI - 2020
Scale	: /" = 25′
UPC#	<b>:</b> <i>II5553</i>

## PLANIMETRIC LEGEND

<u> </u>	Advertising Sign
<b></b>	Bore Hole
◦ BM	Bench Mark
$\bullet$	Bollard Post
● PHOTO CP	Photo Control Point
$\bigtriangleup$	Control Station
	Drainage Flow Arrow (Storm Drain
ĒÒ	Filler Cap (Gas Stations)
<b>&gt;</b>	Flow Arrow (Streams & Rivers)
	Flag Pole
$\boxtimes$	Secondary Control Point
•FP	Filler Pipe (Gas Stations)
(GA)	Gas Tank Access Manhole (Gas Stat
	Gravesite Marker
•	Guard Post
	Gas Vent Pipe (Gas Stations)
	Mail Box
×	Mine Entrance
+	Node Point
	Property Line Symbol
$\odot$	Found Monumentation
0	Property Monument Metal or Wooden Post
Ŭ I	Monitoring Well
	Road Arrow
0	Reference
	Right of Way Monument
	VDOT Commission Monument
$\odot$	Iron Right of Way Pin
×	Railroad Mile Marker
<b>运</b>	Railroad Right of Way Monument
ф	Railroad Signal Pole or Gate
=)=	Railroad Telegraph Pole
$\Phi$	Railroad Telephone Pole
H	Railroad Switch
$\odot$	Shrub
$\bigcirc$	Storm Sewer Manhole
57 ()	Photogrammetric Target
	Tree Traffic Left Turn Arrow
	Traffic Left-Right Arrow
	Traffic Left-Thru Arrow
	Traffic Left-Thru-Right Arrow
	Traffic Right Turn Arrow
	Traffic Thru Arrow
	Traffic Thru-Right Arrow
Ø	Traffic Springback Marker
A	Wetland Flag Automatic
	Wetland Flag Manual
×	Bridge Elevation
X	Plan Elevation
×	Water Elevation
× 7	Elevation Tick Mark
Ζ	Connected Plat Symbol Brush Line
	Pipe Culverts ×
	City Line
	County Line
	Curb Only
	Curb and Gutter
x x x x x	Fence Line
	Guardrail
	Hedge Row
	Jersey Barrier
	Obscure Areas
+++++++++++++++	
	Right of Way
	State Line Edges of Water
	Edges of Water Sidewalks
	Woods
	* Designate size of culverts
	(Variable from 12" to 120")

Plotted By: jthompson								
	REVISED			STATE				
		STATE	ROUTE	PROJECT	SHEET NO.			
		VA.	641	0641-076-301 R-201,C-501	ΙE			
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT UTILITY LEGEND								
★       Electric Light         ○-≪       Electric Lum         ∠       End of Info         ○       Fire Hydram         E       Fiber Optic         ◎       Fiber Optic         ©       Fiber Optic         E       Fiber Optic         E       Fiber Optic         E       Fiber Optic         E       Gas Meter         G       Gas Manhole         ◎       Gas Monitori         □       Gas Stub         Ø       Gas Vent         Ø       Gas Vent         Ø       Gas Well         ←       Sanitary Air         →       Sanitary Stu         Ø       Sewer Clean	Pole und Light Wire ad Hole er bhole ker Post lestal b ver Pole ver Riser Pole ver Riser Pole inaire rmation (All Utili t Hand Hole Manhole Pedestal Post ing Well Post ing Well ation Release Valve w Arrow b Out ce Main Valve cker Post nhole Pipe an Out nd Hole	( Ties)		Telephone Booth Telephone Guy Pole Telephone Guy Wire Test Holes (All Utilities) Telephone Cell Tower Telephone Manhole Telephone Manhole Telephone Marker Post Telephone Pole Telephone Pedestal Telephone Riser Pole Television Satellite Dish Tower Anchor Traffic Control Hand Hole Traffic Control Manhole Traffic Control Manhole Traffic Control Pedestal Traffic Signal Guy Pole Traffic Signal Guy Pole Traffic Signal Pole w/Luminaire Telephone Stub Television Hand Hole Television Manhole Television Marker Post Television Stub Water Blow Off Water Well Water Meter Water Signese Connection Water Stub Water Steam Manhole Water Steam Manhole Water Steam Manhole Water Steam Manhole Water Steam Manhole				

dll55530le.dgn

	— CAFO ——	——— Fiber Optic Cable Television
	CHEM	——— Chemical Line (above or below ground)
——— FO Duct ——	•	· —— Underground Fiber Optic Duct
		——— Fuel Line (above or below ground)
G		
		— — Gas Line Duct
SAN		– —— Gravity Sewer *
SFM		– —— Sanitary Force Main *
		- — Traffic Control Fiber Optic
	·	Telephone Fiber Optic
——————————————————————————————————————	· · ·	· Underground Fiber Optic
		Unknown Utility Line
——————————————————————————————————————	· ·	——— Underground Power Cable
——————————————————————————————————————	·	Underground Power Cable Duct
T/Tg	· · ·	· Underground Telephone Cable
T/Tg_Duct	•	· —— Underground Telephone Cable Duct
<i>TC</i>	·	Underground Traffic Control
TC Duct	· · ·	——— Underground Traffic Control Duct
— CATV —— ——		— —— Underground Television Cable
—CATV Duct——		— — Underground Television Cable Duct
	— VS ——	——— Vacuum Sewer
W		———— Water Line *
		Water Line Duct
— Unk ——		— O Depicted According To Utility Records **
— Unk ——— —		— $\bigcirc$ Abandoned According To Utility Records **
— Unk ——		— $ imes$ According To Miss Utility Information **
		* Designate size (Variable from 0.75" to 54")
		** Designate type ( Unknown line is shown )
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60% PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SHEET NO.

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SURVEYED BY	IAGER <u>SHERRY DJ</u> (, DATE <u>JMT, SEP</u> I	EMBER 2020				
	<u>JMT (703) 464-73(</u> UTILITY BY, DATE _		BER 2020			
				$\mathbb{CO}$	NSTF	RUCTI
	<u>OLD BRIDGE RO</u>	DAD ALIGNME	NT:			
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	Element: Linear	PT = PC= Tangential L Tangential L		101+19.29 RI 107+46.41 RI N85*14'25.546*E 627.J20	6930847.004 6930899.039	11836936 <b>.</b> 900 11837561 <b>.</b> 858
	Element: Circular	PC= HPI= CC= PT= Radius: Delta:	Curvature(Arc): nate: ection: ction: ction: ction:	I07+46.4I RI II0+18.07 RI II2+56.59 RI 600.000 48.719° Left 9.549° 510.184 271.661 494.953 53.415 58.635 N85°14'25.546°E S04°45'34.454°E N60°52'51.359°E S53°28'42.828°E N36°31'17.172°E	6930899.039 6930921.580 6931496.970 6931139.896	1837561.858  1837832.582  1837512.073  1837994.254
	Element: Linear	PT= END= Tangential L Tangential L		112•56.59 RI 115•25.00 RI N36°31′17.172°E 268.402	6931139 <b>.</b> 896 6931355 <b>.</b> 593	11837994.254 11838153 <b>.</b> 986
	OCCOQUAN ROAL	D ALIGNMENT	<u>-</u> :			
	Element: Linear ST ART = PC= Tangential Direct Tangential Lengtt		ST AT ION 200*00.00 RI 200*79.74 RI N00*20'06.347"W 79.742	NORT HING 6930628.225 6930707.966	E AST ING 11837473.498 11837473.031	
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	Element: Circular PRC= HPI= CC= PT = Radius: Delta: Degree of Curva Length: Tangent: Chord: Middle Ordinate: External: Tangent Direction: Radial Direction: Radial Direction: Tangent Direction: Tangent Direction	ture(Arc): n:	204•00.65 RI 205•01.61 RI 206•00.00 RI 510.000 22.395* Left II.234* 199.342 100.960 198.076 9.709 9.897 N35*43'03.913*E S54*16'56.087*E N24*31'12.876*E S76*40'38.160*E N13*19'21.840*E	6931008.683 6931090.652 6931306.417 6931188.895	1837568.952  1837627.892  1837154.882  1837651.156	

# ION ALIGNMENT DATA SHEET

### ENTRANCE ALIGNMENT:

Element: Linear		STATION	NORTHING	EASTING
Liemenii: Lineui	START = PC= Tangential Direction: Tangential Length:	10•00.00 RI 10•30.49 RI N28°29′41.027°W 30.492	6930764.594 6930791.393	11837787.200 11837772.652
Element: Circular	PC= HPI= CC= PRC= Radius: Delta: Degree of Curvature(Arc): Length: Tangent: Chord: Middle Ordinate: External: Tangent Direction: Radial Direction: Radial Direction: Radial Direction: Tangent Direction:	10•30.49 RI 10•62.60 RI 10•87.58 RI 50.000 65.417° Right 114.592° 57.087 32.110 54.036 7.928 9.423 N28°29'41.027°W N61°30'18.973°E N04°12'49.064°E \$53°04'40.844°E N36°55'19.156°E	6930791.393 6930819.613 6930815.246 6930845.283	11837772.652 11837757.334 11837816.596 11837776.623
Element: Circular	PRC= HPI= CC= PT= Radius: Delta: Degree of Curvature(Arc): Length: Tangent: Chord: Middle Ordinate: External: Tangent Direction: Radial Direction: Radial Direction: Radial Direction: Tangent Direction:	10*87.58 RI 11*17.10 RI 11*40.92 RI 50.000 61.123° Left 114.592° 53.340 29.525 50.846 6.946 8.066 N36°55′19.156°E S53°04′40.844°E N06°21′37.687°E N65°47′56.218°E N24°12′03.782°W	6930845.283 6930868.886 6930875.319 6930895.816	11837776.623 11837794.359 11837736.650 11837782.256
Element: Linear	PT = END= Tangential Direction: Tangential Length:	II+40.92 RI I2+00.00 RI N24*I2'03.782*W 59.079	6930895.8/6 6930949 <b>.</b> 703	11837782.256 11837758.037

### dll55530lf.dgn Plotted By: jthompson

	REVISED	STATE		STATE		
		STATE	ROUTE	PROJECT	SHEET NO.	
		VA.	641	0641-076-301 R-201,C-501	IF	
	DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					
Johnson, Mirmiran & Thompson Herndon, Virginia ROADWAY ENGINEER						

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AND UNAPPRO TO BE USED OF CONSTRUC	ARE UNFINIS VED AND ARE FOR ANY TYPE TION OR THE OF RIGHT OF	NOT E
N/A	project 0641-076-301	SHEET NO. <i>IF</i>

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PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO

### UNDERGROUND UTILITIES TEST HOLE INFORMATION

ст С	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED
)		REQUIRED
		1

PLAN SHEETS	TEST HOLES	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE O

### dll55530lg.dgn Plotted By: jthompson

		REVIS	ED	STATE		STAT			SHEET NO.
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SURVEYED E DESIGN BY _	BY, D JMI	ER <u>SHERRY DJOUHARIAN (703) 792-6822</u> DATE <u>JMT, SEPTEMBER 2020</u> L (703) 464-7369
SUBSURFACE	ε υτι	ILITY BY, DATEIMT, SEPTEMBER 2020 ILITY BY, DATEIMT, SEPTEMBER 2020
	<u>G</u> E	INERAL NOTES
	Ι.	IT IS NOT THE INTENT OF THIS PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH STAGE,BUT ONLY TO SHOW THE GENERAL FEATURES NECESSARY TO PROVIDE THE PROPER HANDLING OF TRAFFIC.
	2.	THE CONTRACTOR SHALL SUBMIT REVISED TRAFFIC CONTROL PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO THE BEGINNING OF ANY REVISED PHASE.THE TRAFFIC CONTROL PLAN SHALL SHOW ALL NECESSARY TRAFFIC CONTROL DEVICES INCLUDING SIGNS,PAVEMENT MARKINGS,AND CHANNELIZING DEVICES.
	3.	THE CLEAR ZONE SHALL BE FREE OF STORED MATERIALS AND PARKED EQUIPMENT.HORIZONTAL AND VERTICAL SIGHT DISTANCES SHALL NOT BE IMPACTED BY PARKED CONSTRUCTION EQUIPMENT.
	4.	ALL AREAS EXCAVATED MORE THAN 2" BELOW PAVEMENT SURFACE SERVING PUBLIC TRAFFIC WITHIN THE CLEAR ZONE AND NOT PROTECTED BY A POSITIVE BARRIER AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED TO FORM AN APPROXIMATE 6:I SAFETY WEDGE DESIRABLE (4:I MINIMUM), AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF PUBLIC TRAFFIC. ALL COSTS FOR PLACING, MAINTAINING AND REMOVING THE 6:I DESIRABLE (4:I MINIMUM), SAFETY WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
	5.	ALL TRAFFIC CONTROL DEVICES SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE PROPERTY OWNER ACCESS AT ALL TIMES. WORK MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DEVICES,GRADING,AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN,VEHICULAR,AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS,BOTH DURING AND AFTER WORKING HOURS,TO MAINTAIN SUCH ACCESS.
1	6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ANY EXISTING SIGNS,UNLESS OTHERWISE ADVISED BY THE ENGINEER TO REMOVE OR RELOCATE.
	7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONSTRUCTION,SIGNING,AND TRAFFIC MANAGEMENT PLAN WITH OTHER ADJACENT PROJECTS UNDER CONSTRUCTION.
	8.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROJECT MANAGER AND RESIDENCY ADMINISTRATOR OF ANY SCHEDULED WORK PLANS AND TRAFFIC DELAYS.
	9.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROJECT MANAGER,RESIDENCY ADMINISTRATOR,REGIONAL OPERATIONS MANAGER,AND THE PUBLIC AFFAIRS STAFF OF ANY UNSCHEDULED TRAFFIC DELAYS.
	10.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PUBLIC SAFETY,EMERGENCY MANAGEMENT, AND MASS TRANSIT ORGANIZATIONS OF DETOUR ROUTE(S) AND AVAILABLE ALTERNATE ROUTES DURING CONSTRUCTION.
	//.	THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADD ANY ADDITIONAL TEMPORARY MEASURES NECESSARY TO FACILITATE PROPER,POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION.
	12.	UNLESS SPECIFIED ON THE PLANS,ALL EXISTING TURN LANES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
	13.	WHERE GROUP 2 CHANNELIZING DEVICES ARE USED TO SEPARATE THE CONSTRUCTION AREA AND TRAFFIC,A MINIMUM CLEAR ZONE AREA AS DEFINED IN THE VA WAPM IS TO BE MAINTAINED.
	14.	TRAFFIC BARRIER SERVICE SHALL BE INSTALLED AND REMOVED SO AS NOT TO PRESENT ANY BLUNT END OR HAZARD TO THE MOTORING PUBLIC. THE PLACEMENT AND REMOVAL OF THE TRAFFIC BARRIER SERVICE AND BARRICADES ARE TO BE COORDINATED BY THE PROJECT SAFETY OFFICER.
	/5.	CONTRACTOR SHALL EXPEDITE WORK BEHIND BARRIER IN THE INFLUENCE OF INTERSECTIONS TO RESTORE SIGHT DISTANCE AS SOON AS POSSIBLE.
	16.	THE CONTRACTOR SHALL 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.
	17.	THE CONTRACTOR SHALL 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.
	18.	THE CONTRACTOR SHALL PERFORM REVIEWS OF THE CONSTRUCTION AREA TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERVALS AT THE DIRECTION OF THE ENGINEER.THE CONTRACTOR SHALL MAINTAIN A COPY OF THE TEMPORARY TRAFFIC CONTROL PLAN AT THE WORK SITE AT ALL TIMES.
1	19.	UNDER NO CIRCUMSTANCES WILL CONCURRENT CONSTRUCTION LEFT AND RIGHT OF ANY LANE BE ALLOWED UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR SHOWN ON THESE PLANS.
2		EXISTING SURFACE, AGGREGATE BASE AND SUBBASE MATERIAL, WHICH WILL BE DEMOLISHED OR OBLITERATED DURING CONSTRUCTION AND WHICH IS SUITABLE FOR MAINTENANCE OF TRAFFIC AS DETERMINED BY THE ENGINEER SHALL BE SALVAGED AND UTILIZED FOR MAINTENANCE OF TRAFFIC PRIOR TO THE USE OF COMMERCIAL MATERIALS. WHEN NOT SPECIFIED AS A SEPARATE PAY ITEM, THE REMOVAL AND SALVAGING OF EXISTING SURFACES AND AGGREGATE BASE AND SUBBASE MATERIAL AND REUSE OF MATERIALS WILL BE MEASURED AND PAID FOR AS REGULAR EXCAVATION IN ACCORDANCE WITH SECTION 303 OF THE ROAD AND BRIDGE SPECIFICATIONS.
Ż		ACCESS TO ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES OR AS DIRECTED BY THE ENGINEER.
Ż		THE CONTRACTOR SHALL NOTIFY EACH AFFECTED PROPERTY OWNER AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS.
ž		IF REQUIRED,THE CONTRACTOR SHALL PLACE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)AT LOCATIONS APPROVED BY VDOT AND SHALL BE IN ACCORDANCE WITH THE VA WAPM.
		ALL EXISTING SIGNS, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE MAINTAINED AND RELOCATED AS NECESSARY THROUGHOUT THE LIFE OF THE PROJECT OR AS DIRECTED BY THE ENGINEER.
	26.	SIGN SPACING SHALL BE ADJUSTED TO FIT FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER. ALL EXISTING SIGNS, EITHER SHOWN ON THE PLANS OR NOT, THAT ARE TO REMAIN AND CONVEY A
2		CONFLICTING MESSAGE TO THE TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED AT ALL TIMES FOR THE DURATION OF TEMPORARY TRAFFIC CONTROL SETUP. ALL SIGNING FOR THE PROJECT LIMITS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION
		OF THE VA WAPM. THESE SIGNS SHALL BE INSTALLED ON ALL STATE MAINTAINED ROADWAYS AND REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.
	28.	ALL CONSTRUCTION SIGNING SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE FOLLOWING DOCUMENTS:
		VIRGINIA WORK AREA PROTECTION MANUAL (WAPM) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) VIRGINIA SUPPLEMENT TO THE MUTCD VIRGINIA ROAD AND BRIDGE SPECIFICATIONS VIRGINIA ROAD AND BRIDGE STANDARDS VDOT IIM-LD-24I / IIM-TE-35I.5 VDOT IIM-TE-392 (IF APPLICABLE)

# ATION MANAGEMENT PLAN

### PUBLIC COMMUNICATIONS

- THE PUBLIC SHALL BE NOTIFIED OF THE EXPECTED SCHEDULE ON VDOT'S WEB SITE FOR THIS PROJECT. INFORMATION OF THE POTENTIAL FOR BACK-UPS DURING THE PEAK HOURS OF OPERATION IS PROVIDED BY THE REGIONAL TRAFFIC OPERATIONS CENTER.
- 2. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE OF ALL CLOSURES TO THE ENGINEER WHO WILL COMMUNICATE WITH THE VDOT DISTRICT PUBLIC AFFAIRS SECTION, LOCAL AGENCY, FEDERAL AGENCIES AND SCHOOLS IN CLOSE PROXIMITY, RADIO AND TELEVISION, EMERGENCY SERVICES, AND VDOT TRAFFIC OPERATION CENTER AS DEEMED NECESSARY.
- 3. THE CONTRACTOR SHALL NOTIFY TRANSPORTATION OPERATIONS CENTER 48 HOURS IN ADVANCE OF ANY LANE CLOSURES IN ORDER TO PLACE LANE CLOSURE INFORMATION ON THE 511 SYSTEM AND VA-TRAFFIC.

### TRANSPORTATION OPERATIONS

- THE PUBLIC AFFAIRS SECTION AND THE TRAFFIC OPERATIONS CENTER SHALL BE NOTIFIED BY THE CONSTRUCTION PROJECT MANAGER OF LANE CLOSURE INFORMATION FOR DISTRIBUTION ON THE 511 SYSTEM AND VOIS. THE TOC AND CONTRACTOR WILL UTILIZE ASSESTS SUCH AS VARIABLE MESSAGE SIGNS TO ALERT MOTORIST OF LANE CLOSURES AND OTHER INCIDENT THAT MAY IMPACT TRAVEL.PCMS BOARD SHALL BE EQUPPIED WITH CDMA CAPABILITIES.
- 2. THE CONSTRUCTION PROJECT MANAGER SHALL BE NOTIFIED ONE WEEK IN ADVANCE OF LANE CLOSURES.
- 3. EMERGENCY RESPONSE PROFESSIONALS SHALL RESPOND TO TRAFFIC INCIDENTS IN THE WORK ZONE AS SOON AS POSSIBLE.
- 4. BY NOON ON EACH THURSDAY. THE CONTRACTOR WILL SUBMIT TO THE CONSTRUCTION PROJECT MANAGER IN WRITING.A REQUEST FOR LANE CLOSURES FOR THE FOLLOWING WEEK.
- 5. THE FOLLOWING IS THE CONTACT LIST OF EMERGENCY RESPONSE AGENCIES IN CASE AN INCIDENT OCCURS IN THE WORK ZONE:

POLICE/AMBULANCE/FIRE SAFETY /HAZMAT SPILLS - 911 TRAFFIC OPERATIONS CENTER - (703) 877-3449 VIRGINIA STATE POLICE - (703) 791-3101 LOCAL AGENCY - (703) 792-6825

- FOLLOWING ANY TRAFFIC INCIDENTS, THE SITE SHALL BE CLEARED AND RESTORED FOR NORMAL TRAFFIC 6. OPERATIONS AS SOON AS POSSIBLE.
- 7. TRAFFIC INCIDENTS WILL BE INVESTIGATED AND MEASURES INTRODUCED TO REDUCE OCCURRENCES. IF NECESSARY, THE TRANSPORTATION MANAGEMENT PLAN MAY BE REVISED IN CONSULTATION WITH THE ENGINEER.

### TEMPORARY TRAFFIC CONTROL

- THIS TRANSPORTATION MANAGEMENT PLAN HAS BEEN DESIGNED IN CONFORMANCE WITH A TYPE B. Ι. CATEGORY III PROJECT.
- LANE CLOSURES OR WORK THAT RESTRICTS TRAFFIC FLOW WILL NOT BE PERMITTED FROM NOON THE DAY 2. BEFORE A HOLIDAY UNTIL NOON THE DAY AFTER A HOLIDAY UNLESS APPROVED BY THE ENGINEER.
- WHEN A HOLIDAY FALLS ON A FRIDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON ON THURSDAY TO 3. NOON ON MONDAY. WHEN A HOLIDAY FALLS ON MONDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON ON FRIDAY TO NOON ON TUESDAY. FURTHER.AS THE THANKSGIVING DAY HOLIDAY OCCURS ON A THURSDAY. THE LANE CLOSURE WILL NOT BE PERMITTED FROM NOON ON WEDNESDAY UNTIL NOON ON THE FOLLOWING MONDAY.
- 4. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER FOR ANY PLANNED CLOSURE NOT ANTICIPATED BY THIS TRANSPORTATION MANAGEMENT PLAN.
- 5. THE CONTRACTOR SHALL SUBMIT REQUESTS FOR LANE CLOSURE TO VDOT A MINIMUM OF ONE WEEK IN ADVANCE OF THE LANE CLOSURE.
- 6. LANE CLOSURE REQUEST SHALL BE ENTERED INTO THE VDOT'S LANE CLOSURE ADVISORY MANAGEMENT SYSTEM (LCAMS), BY THE CONTRACTOR, AT LEAST TEN (10) DAYS TO THE LANE CLOSURE, AND NO LATER THEN CLOSE OF BUSINESS WEDNESDAY THE WEEK PRIOR TO THE CLOSURE.
- 7. PRIOR TO CLOSING LANES OF A ROADWAY OR DETOURING TRAFFIC.LOCAL FIRE, RESCUE, AND LAW ENFORCEMENT SHALL BE NOTIFIED BY THE ENGINEER. IN THE EVENT AN ACCEPTABLE ALTERNATE ROUTING FOR EMERGENCY SERVICES CANNOT BE OBTAINED, THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ROUTE EMERGENCY VEHICLES SAFELY THROUGH THE WORK ZONE UNDER APPROVAL AND DIRECTION OF THE ENGINEER.
- 8. THE CONTRACTOR SHALL START LANE CLOSURE ACTIVITIES WITHIN THE SPECIFIED OFF PEAK HOURS. NO ROAD PREPARATION ACTIVITY ALLOWED DURING THE PEAK HOURS. THE CONTRACTOR SHALL CLEAR THE TEMPORARY LANE CLOSURE SET-UP WITHIN THE OFF PEAK HOURS.
- 9. LANE CLOSURES WILL NOT BE PERMITTED DURING THE PEAK HOURS UNLESS DIRECTED BY THE ENGINEER. 6:00 AM TO 9:00 AM AND 3:30 PM TO 6:30 PM PEAK HOURS:

NON-PEAK HOURS: 9:00 AM TO 3:30 PM AND 6:30 PM TO 6:00 AM

ALLOWABLE LANE CLOSURE HOURS (SINGLE LANE)						
WEE	TKDAY	WEEKEND				
MONDAY - THURSDAY	FRIDAY	FRIDAY - SATURDAY	SATURDAY - SUNDAY	SUNDAY - MONDAY		
9:00 AM TO 3:30 PM 9:00 PM TO 5:00 AM	9:00 AM TO 2:00 PM	9:00 PM TO 9:00 AM	9:00 PM TO 9:00 AM	10:00 PM TO 5:00 AM		

ALLOWABLE LANE CLOSURE HOURS (MULTIPLE LANES)							
WEE	KDAY	WEEKEND					
MONDAY - THURSDAY	FRIDAY	FRIDAY - SATURDAY	SATURDAY - SUNDAY	SUNDAY - MONDAY			
9:00 PM TO 5:00 AM	NOT UNTIL IO:00 PM	10:00 PM TO 6:00 AM	10:00 PM TO 6:00 AM	10:00 PM TO 5:00 AM			

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- 2. CONSTRUCT
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- 5. CONSTRUCT

### STAGE 2:

- I. INSTALL AD 2. CONSTRUCT
- 3. CONSTRUCT
- 4. CONSTRUCT
- 5. CONSTRUCT
- STAGE 3:
- I. INSTALL AD
- 2. CONSTRUCT
- 3. CONSTRUCT

### STAGE 4:

- I. INSTALL AD
- 2. CONSTRUCT
- 3. CONSTRUCT SHORT-TER
- 4. CONSTRUCT

FOR DRAINAGE

### dll55530lh(l).dgn Plotted By: jthompson

	REVISED	STATE		STATE	SHEET NO.			
N NOTES			ROUTE	PROJECT 0641-076-30ł				
		VA.	641	R-201,C-50	<i> H( )</i>			
	IR TO REGULA IAY BE SUBJI	ATION AND ECT TO C	) CONTROL HANGE AS	CONSTRUCTION _ OF TRAFFIC DEEMED				
N	ECESSARY BI	Y THE DEF	PARTMENT					
PICAL TRAFFIC CONTRO	)LFI(	GURE	S					
FOLLOWING TYPICAL TRAFFIC CONTROL (TTC) FIGURES I THE USE,GUIDANCE, AND APPLICATION ON THIS PROJEC		A WAPM H	AVE BEE	N PROPOSED				
FIGURE TTC-1.1WORK BEYOND SHOULDER OPERATIONFIGURE TTC-3.2MOBILE OR SHORT DURATION SHOULDER OPERATIONFIGURE TTC-4.2STATIONARY OPERATION ON A SHOULDERFIGURE TTC-5.2SHOULDER OPERATION WITH MINOR ENCROACHMENTFIGURE TTC-13.2MOVING/MOBILE OPERATIONS ON A TWO-LANE ROADWAYFIGURE TTC-15.2SHORT DURATION OPERATION ON A MULTI-LANE ROADWAYFIGURE TTC-16.2OUTSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAYFIGURE TTC-17.2INSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAYFIGURE TTC-18.2MULTI-LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAYFIGURE TTC-23.2LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAYFIGURE TTC-24.2NON-STATIONARY OPERATION ON A TWO-LANE ROADWAY USING FLAGGERSFIGURE TTC-26.2LANE CLOSURE OPERATION ON A TWO-LANE ROADWAY USING FLAGGERSFIGURE TTC-27.2LANE CLOSURE OPERATION - NEAR SIDE OF AN INTERSECTIONFIGURE TTC-27.2LANE CLOSURE OPERATION - FAR SIDE OF AN INTERSECTIONFIGURE TTC-27.2LANE CLOSURE OPERATION IN AN INTERSECTIONFIGURE TTC-28.2LANE CLOSURE OPERATION IN AN INTERSECTIONFIGURE TTC-28.2LANE CLOSURE OPERATION IN AN INTERSECTIONFIGURE TTC-28.2LANE CLOSURE OPERATION IN AN INTERSECTIONFIGURE TTC-23.0SIGNING FOR PROJECT LIMITS								
FIGURE TTC-58.1 END OF DAY SIGNING FOR FULL QUENCE OF CONSTRUCTI		RATIONS (	ON A MULT	TI-LANE ROADWAY				
PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AC INSTALLED AS SHOWN IN FIGURE TTC-53.0 OF THE V	CTIVITIES, SIGN							
GREATER THAN 60 DAYS. ALL EROSION AND SEDIMENT CONTROL MEASURES AND TO THE START OF CONSTRUCTION.	TEMPORARY	DRAINAGE	SHALL E	BE IN PLACE PRIOR				
THE CONTRACTOR SHALL SCHEDULE ALL PHASES OF SANITARY SEWER, CABLE, FIBER CABLE/OPTIC CABLE, AI				•				
UTILITY SERVICES WILL NOT BE INTERRUPTED. SS OTHERWISE APPROVED OR DIRECTED BY THE ENO ECUTE THE WORK IN ACCORDANCE WITH THE FOLLOW								
E /:								
INSTALL ADVANCE WARNING SIGNS ALONG WITH GROUP CONSTRUCT GRADING AND DRAINAGE ITEMS AS INDICA CONSTRUCT RIGHT SIDE OF OCCOQUAN ROAD FROM S CONSTRUCT RIGHT SIDE OF WESTBOUND OLD BRIDGE	TED ON PLAN TATION 20340	VS. DO TO STA	NTION 206	•00.				
CONSTRUCT WESTBOUND OLD BRIDGE ROAD FROM ST	ATION 104+29	TO STATI	ON 106+86	UNDER SHORT-TERM LANE CLOS	URES.			
INSTALL ADVANCE WARNING SIGNS ALONG WITH GROUP CONSTRUCT GRADING AND DRAINAGE ITEMS AS INDICA			CES AS S	HOWN ON PLANS.				
CONSTRUCT LEFT SIDE OF OCCOQUAN ROAD FROM ST			-14.					
CONSTRUCT MAJORITY OF WESTBOUND OLD BRIDGE R	DAD FROM ST	TATION IOE	5•78 TO S	TATION 113.00.				
CONSTRUCT WESTBOUND OLD BRIDGE ROAD FROM ST	AT ION 107+24	TO STATI	ON 107+76	AND FROM 108+84 TO STATION	//3∙00.			
INSTALL ADVANCE WARNING SIGNS ALONG WITH GROUP	2 CHANNELIZ	ZING DEVI	CES AS S	HOWN ON PLANS.				
CONSTRUCT GRADING AND DRAINAGE ITEMS AS INDICA	TED ON PLAN	vs.						
CONSTRUCT EASTBOUND OLD BRIDGE ROAD FROM ST	ATION 102+00	TO STATI	ON 106+00.					
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INSTALL ADVANCE WARNING SIGNS ALONG WITH GROUP CONSTRUCT GRADING AND DRAINAGE ITEMS AS INDICA			LS AS S	HOWN ON PLANS.				
CONSTRUCT REMAINDER OF PERMANENT DRIVEWAYS,C SHORT-TERM LANE CLOSURES.	CURB AND GU	TTERS, AN	D SHAREL	D-USE PATH UNDER				
CONSTRUCT EASTBOUND OLD BRIDGE ROAD FROM ST.	ATION 111+50 T	O STATIO	N 116+00.					
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				PROJECT 5 0641-076-301	SHEET NO. <i>  <b>  ( )</b></i>			

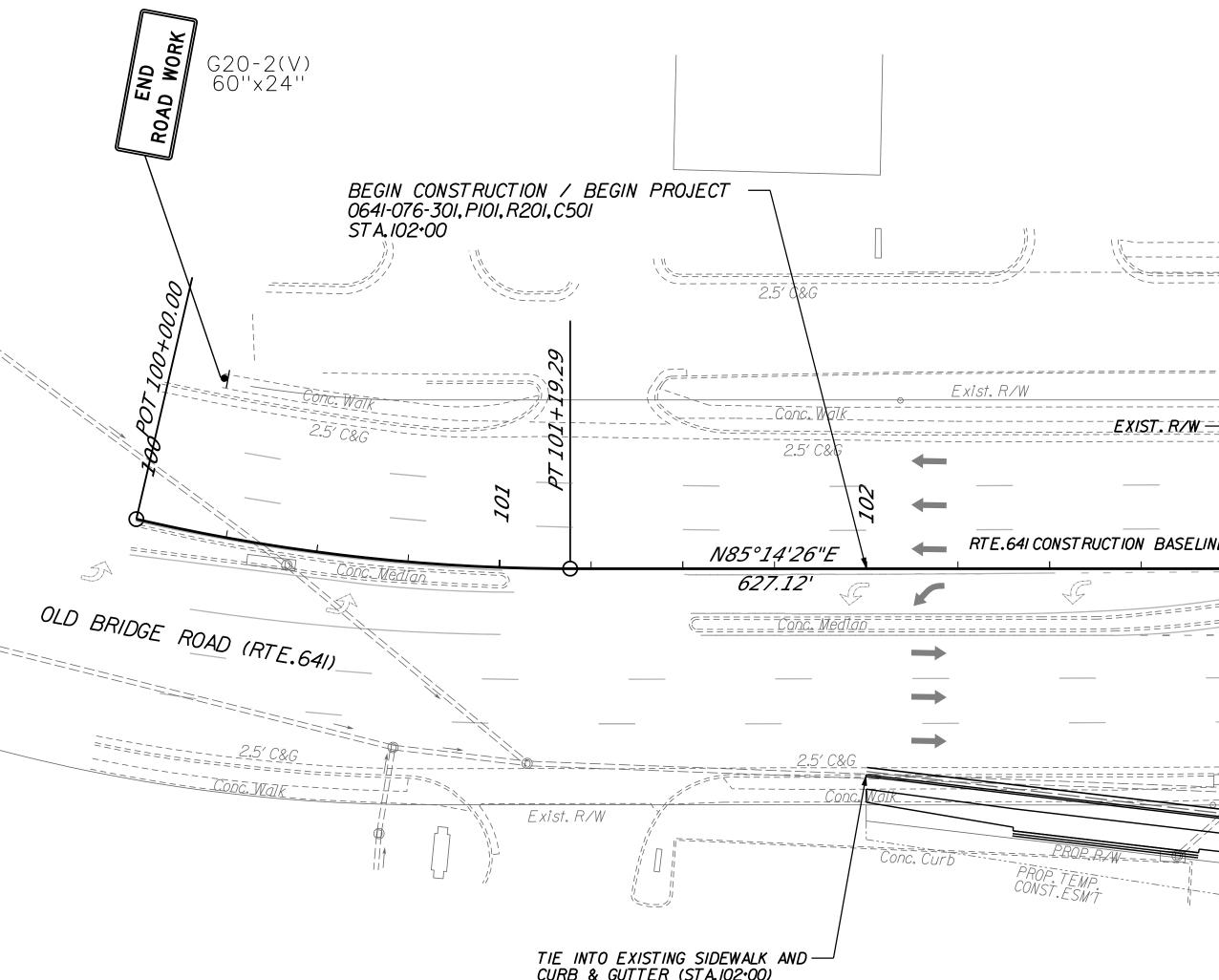
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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_ DESIGN BY \_\_\_\_\_\_\_ 464-7369 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020\_

W20-1 48''x48'' ROA NOR HEA TEMPORARY PAVEMENT MARKING LEGEND

		• _ •	
(A)	TYPE A, WHITE PAVEMENT LINE MARKING, 6" WIDTH	$\bigcirc$	TYPE B, CL (10' LINE,
$(\mathbb{B})$	TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH	(K)	TYPE B, CL
$\bigcirc$	TYPE A, YELLOW PAVEMENT LINE MARKING, 4" WIDTH		TYPE A, PA
$\bigcirc$	TYPE A, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH	$\bigcirc$	TYPE A, PA
E	TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE)	$\mathbb{N}$	TYPE A, WH
$(\mathbb{F})$	TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)	$\bigcirc$	TYPE B, CL (45 DEGREE
G	TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH	$\mathbb{P}$	TYPE B, CL (2' LINE,
(H)	TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH,(45 DEGREES, 20' SPACE)	$\bigcirc$	TYPE A, YE (45 degree
	TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST		

# TEMPORARY TRAFFIC CONTROL (TTC PLAN - STAGE 1



CURB & GUTTER (STA.102+00)

CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST E, 30' SPACE) CLASS VI, YELLOW PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST PAVEMENT SYMBOL MARKING, (SINGLE TURN ARROW LT OR RT) PAVEMENT SYMBOL MARKING, (DOUBLE TURN ARROW THRU/LT OR RT) WHITE. 24' WIDTH (10' LINE, 3' SPACE) CLASS VI, YELLOW PAVEMENT LINE MARKING, 24" WIDTH, CONTRAST EES, 20' SPACE, 300' GAP) CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH, CONTRAST 6′SPACE)

YELLOW PAVEMENT LINE MARKING, 24" WIDTH, EES, 20' SPACE, 300' GAP)



LEGEND

DENOTES CONSTRUCTION THIS STAGE

DENOTES CONSTRUCTION DURING SHORT-TERM LANE CLOSURES

DENOTES CONSTRUCTION PREVIOUS

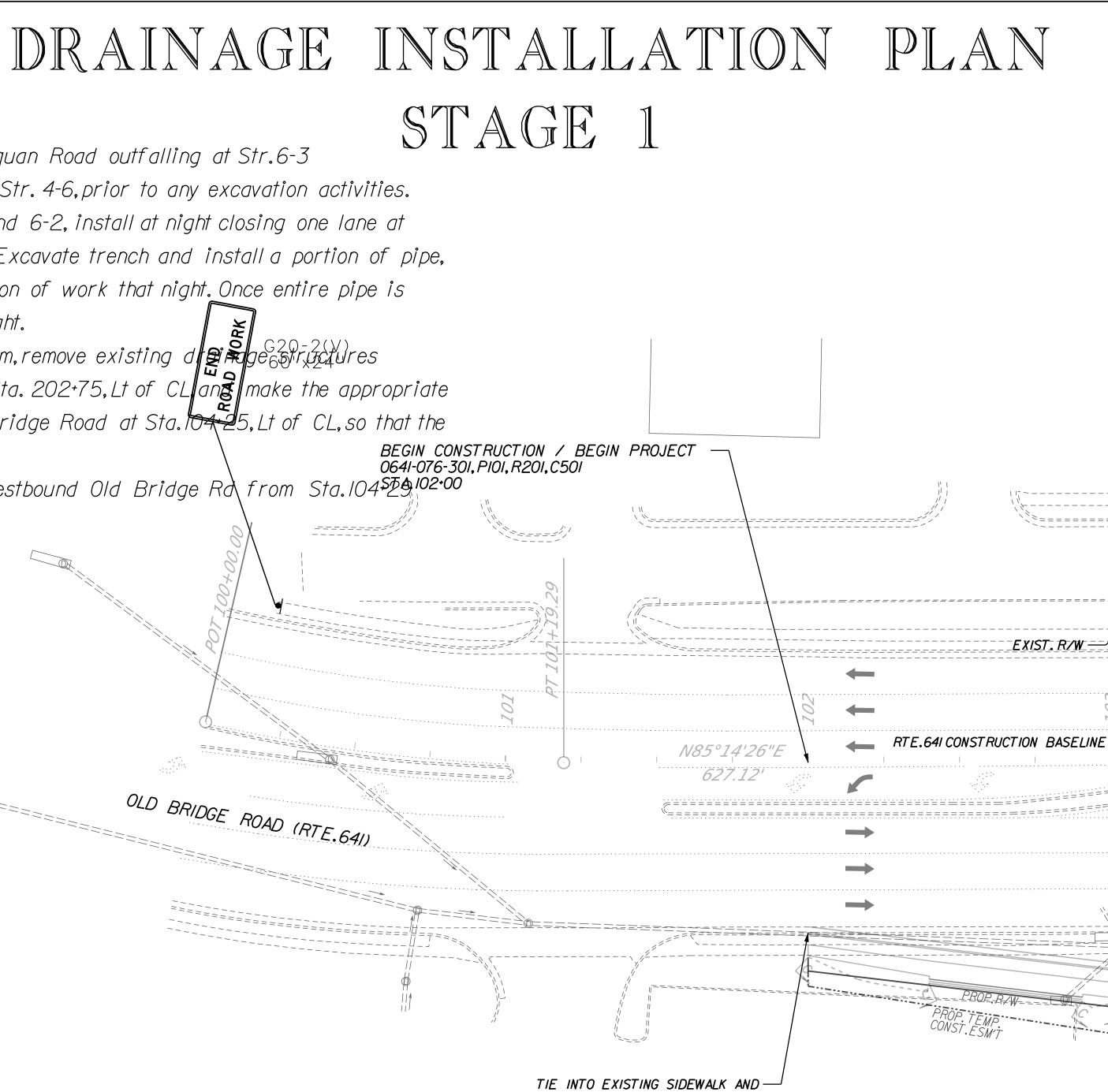
● ● ● DENOTES GROUP 2 CHANNELIZING

### dll55530lf(3).dgn Plotted By: jthompson

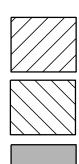
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PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> DESIGN BY \_\_\_\_\_\_\_ JMT (703) 464-7369 <u>SEQUENCE OF CONSTRUCTION</u> Install proposed storm sewer system along Occoquan Road outfalling at Str.6-3 /. from the downstream end working upstream to Str. 4-6, prior to any excavation activities. For the installation of the pipe between Str.6-I and 6-2, install at night closing one lane at 2. a time for a staged installation, using flaggers. Excavate trench and install a portion of pipe, then place steel plate over open trench at completion of work that night. Once entire pipe is installed, backfill trench. All work to be done at night. Upon installation of proposed storm sewer system, remove existing d 3. and system outfalling along Occoquan Road at Sta. 202+75, Lt of CL and make the appropriate pipe connections to the existing inlet along Old Bridge Road at Sta. 104,25, Lt of CL, so that the BEGIN CONSTRUCTION / BEGIN PROJECT 0641-076-301, PIOI, R201, C501 Maintain short term lane closures to construct Westbound Old Bridge Ra from Sta. 104529, 102-00 to Sta. 106+86. 4. W20-1 48''x48'' ROA WORI



CURB & GUTTER (STA. 102.00)



### LEGEND

DENOTES CONSTRUCTION THIS STAGE

DENOTES CONSTRUCTION DURING SHORT-TERM LANE CLOSURES

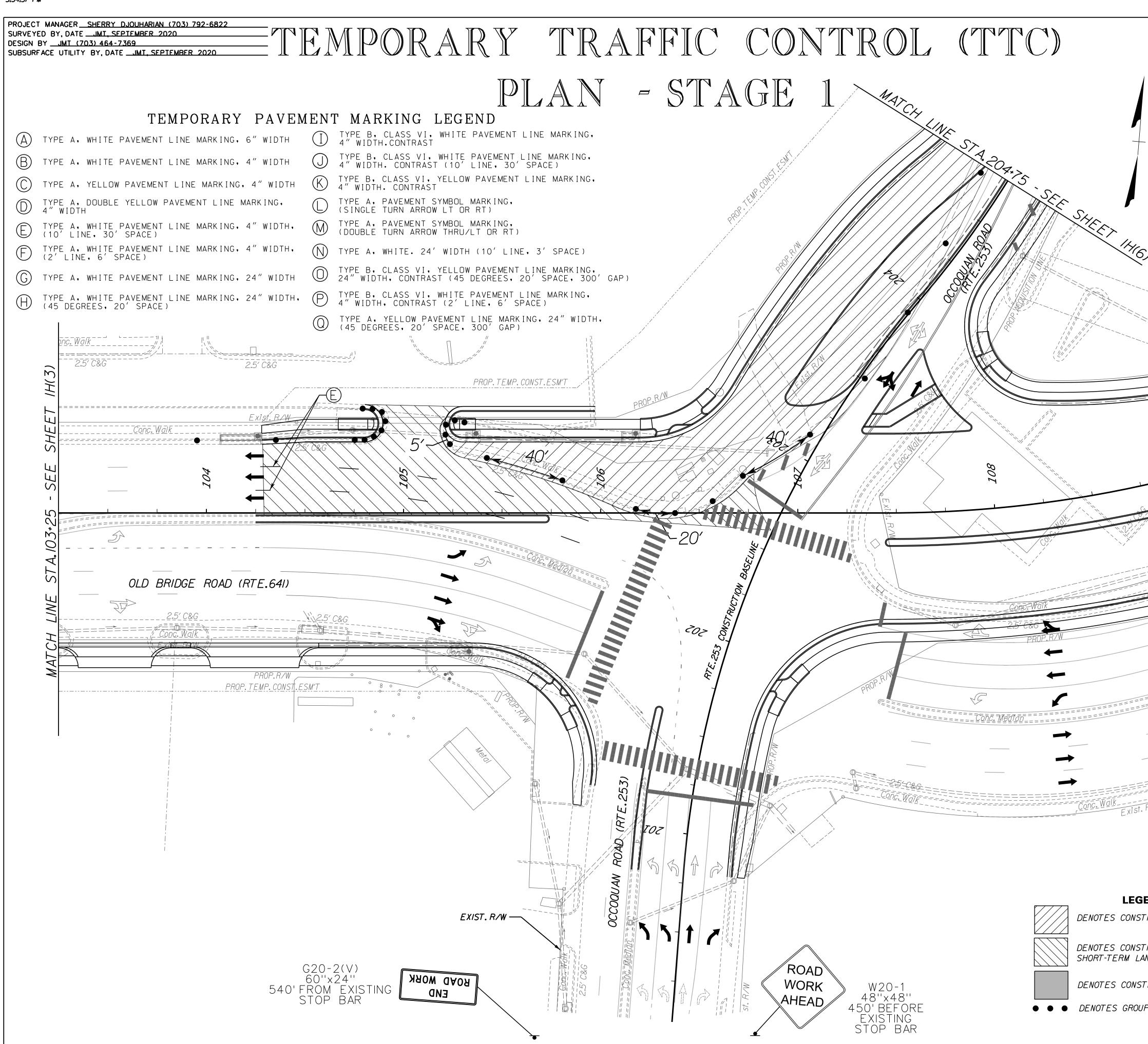
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● ● ● DENOTES GROUP 2 CHANNELIZING DE

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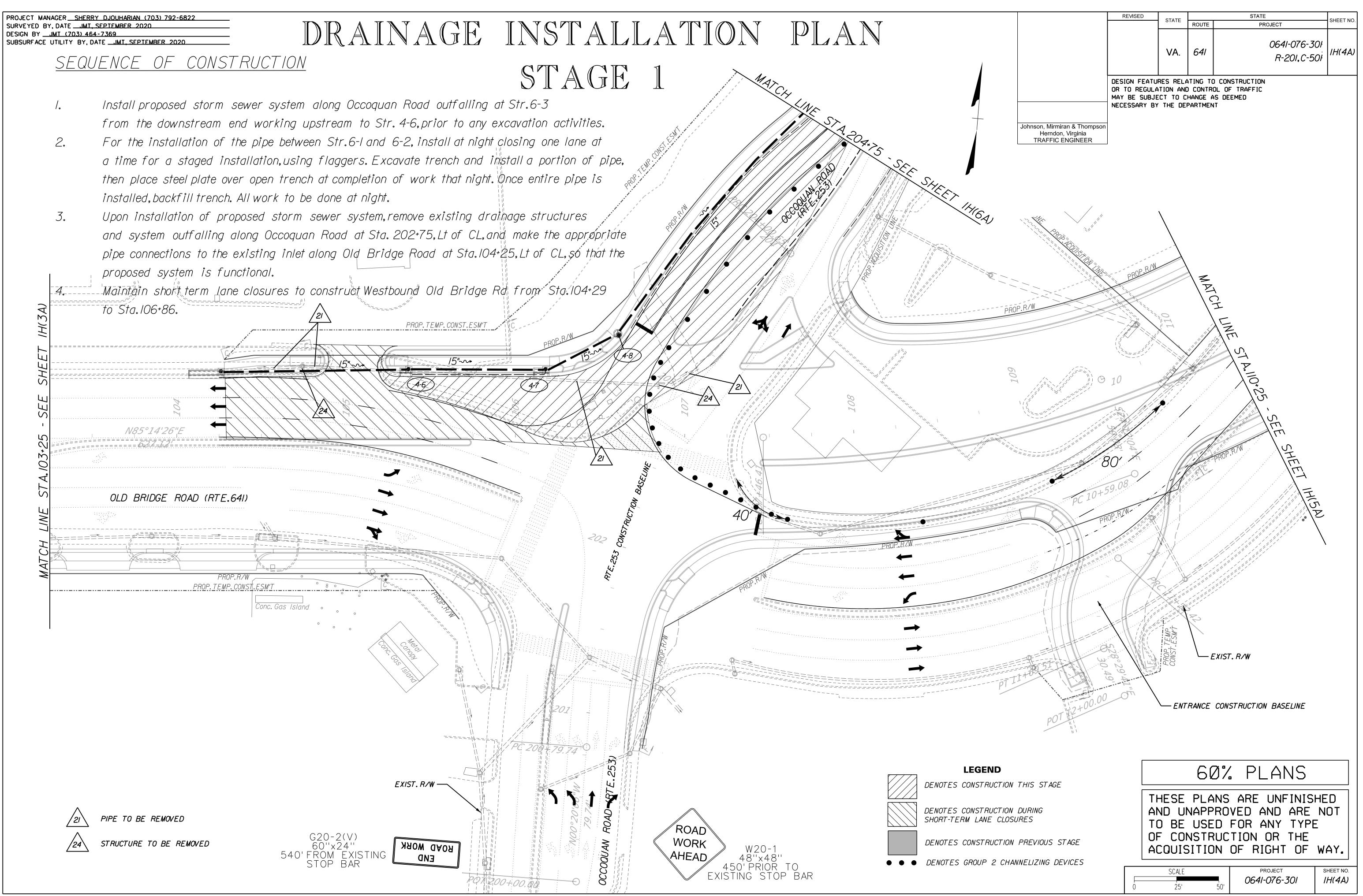
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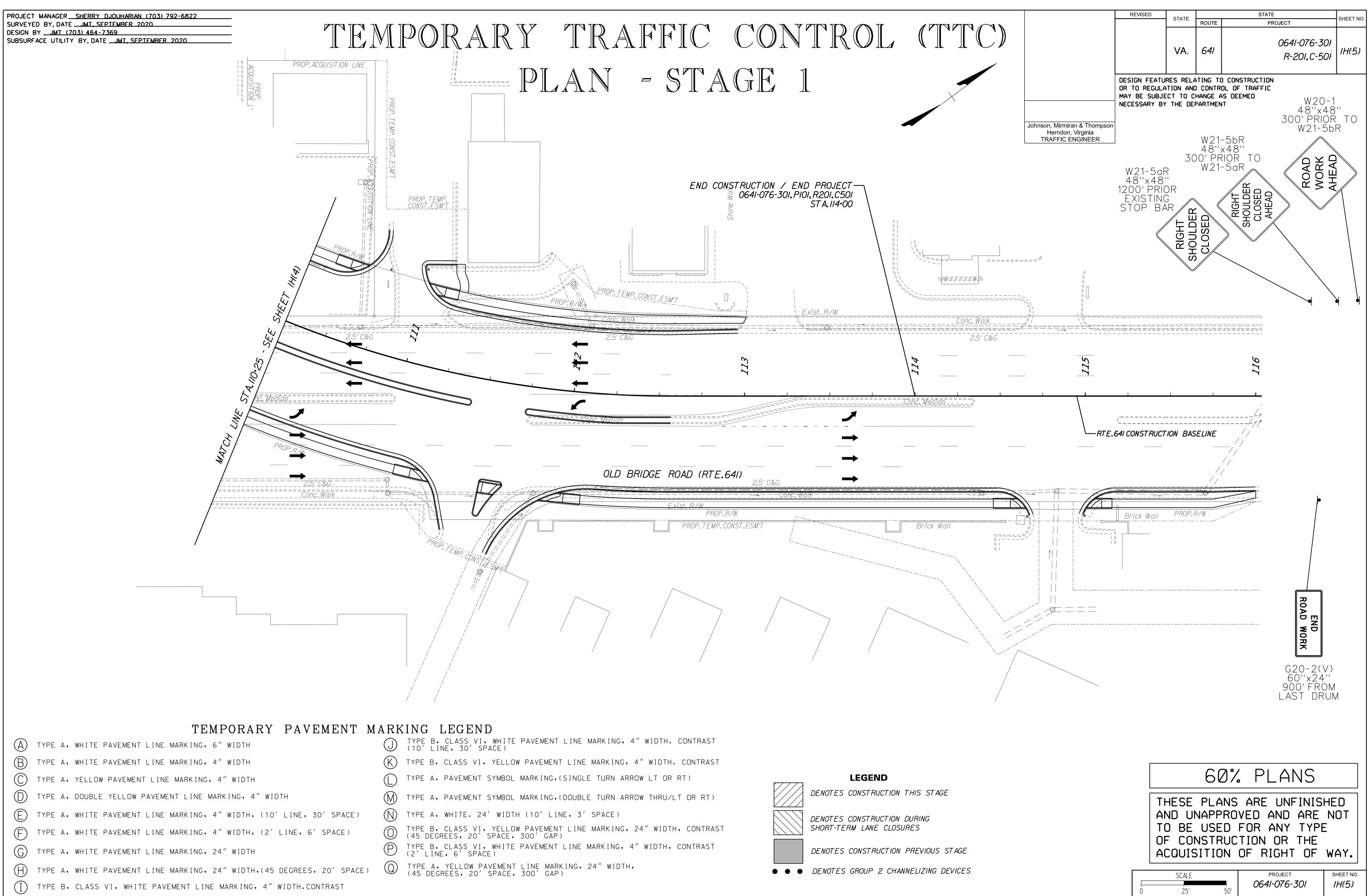


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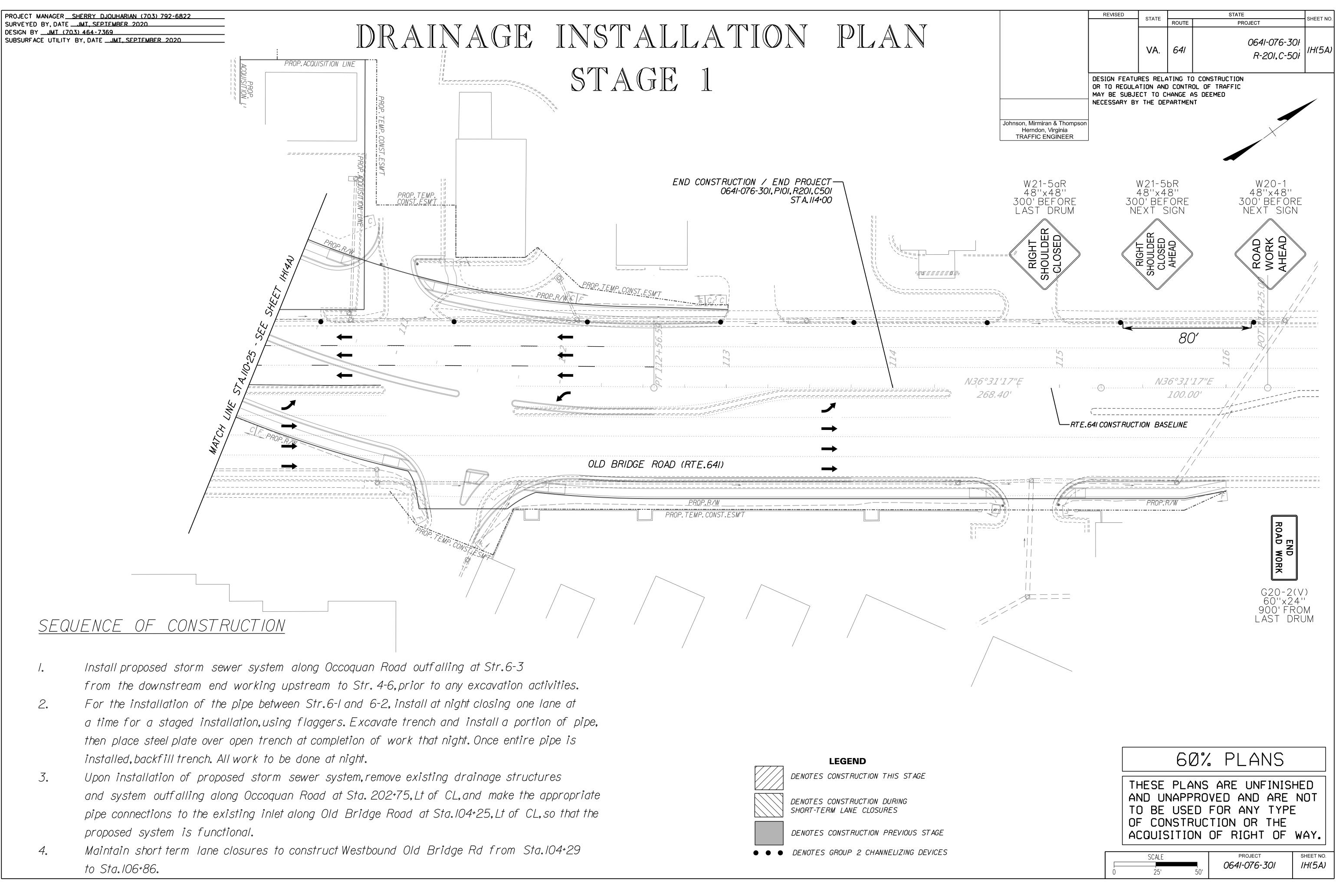
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dll55530lh(5),dgn Plotted By: jthompson



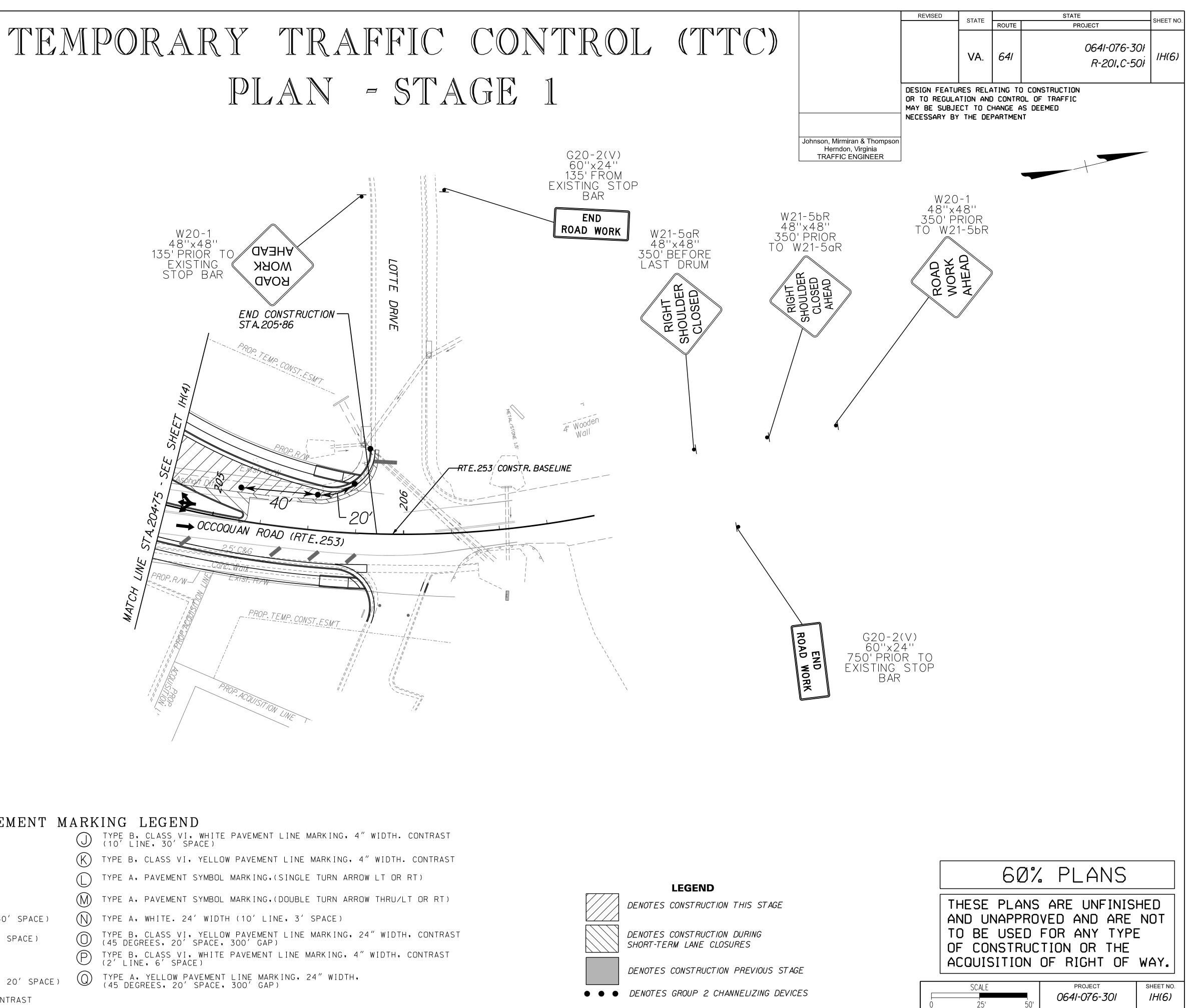
dll55530lh(5a).dgn Plotted By: jthompson

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_ 

TEMPORARY PAVEMENT MARKING LEGEND (A) TYPE A, WHITE PAVEMENT LINE MARKING, 6" WIDTH B TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH C TYPE A, YELLOW PAVEMENT LINE MARKING, 4" WIDTH  $\bigcirc$ (M)TYPE A, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH E TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE) (N)F TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)  $\bigcirc$ TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH (H) TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH, (45 DEGREES, 20' SPACE) () TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST

# PLAN - STAGE 1



dll55530lh(6),dgn Plotted By: jthompson

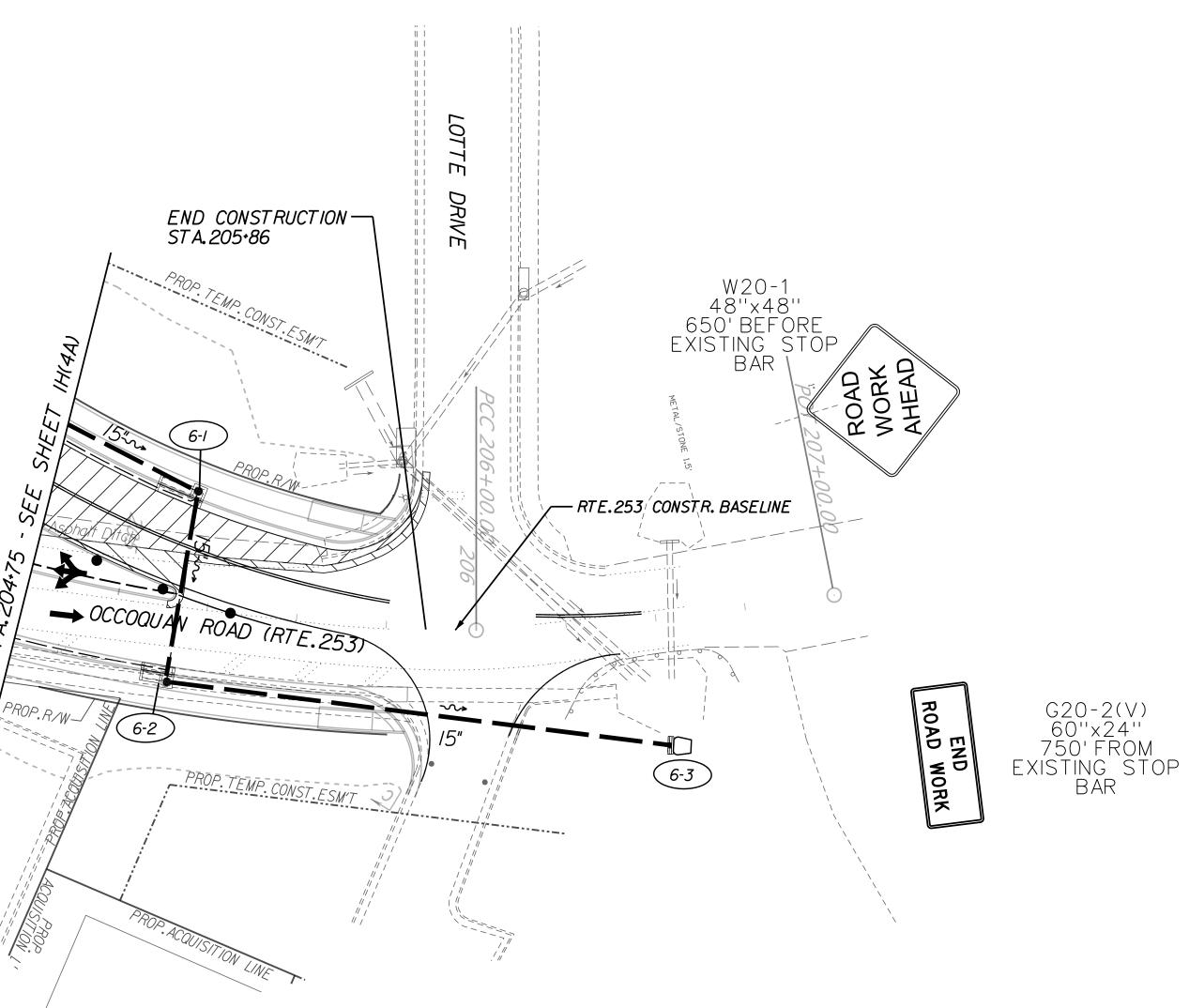
PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020

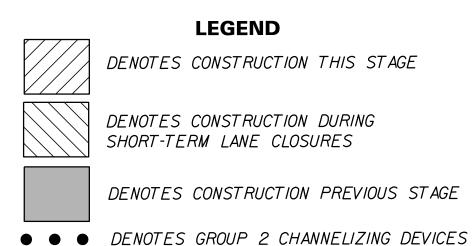
# DRAINAGE INSTALLATION PLAN STAGE 1

MATCH

# <u>SEQUENCE OF CONSTRUCTION</u>

Install proposed storm sewer system along Occoquan Road outfalling at Str.6-3 /. from the downstream end working upstream to Str. 4-6, prior to any excavation activities. For the installation of the pipe between Str.6-Land 6-2, install at night closing one lane at 2. a time for a staged installation, using flaggers. Excavate trench and install a portion of pipe, then place steel plate over open trench at completion of work that night. Once entire pipe is installed, backfill trench. All work to be done at night. Upon installation of proposed storm sewer system, remove existing drainage structures 3. and system outfalling along Occoquan Road at Sta. 202+75, Lt of CL, and make the appropriate pipe connections to the existing inlet along Old Bridge Road at Sta.104+25,Lt of CL,so that the proposed system is functional. Maintain short term lane closures to construct Westbound Old Bridge Rd from Sta.104+29 4. to Sta.106+86.



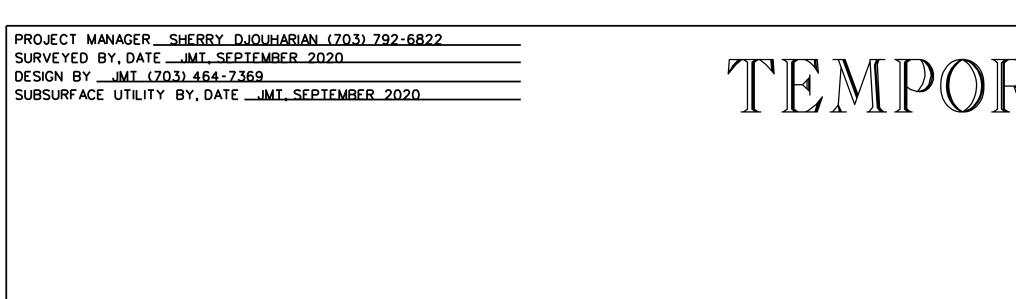


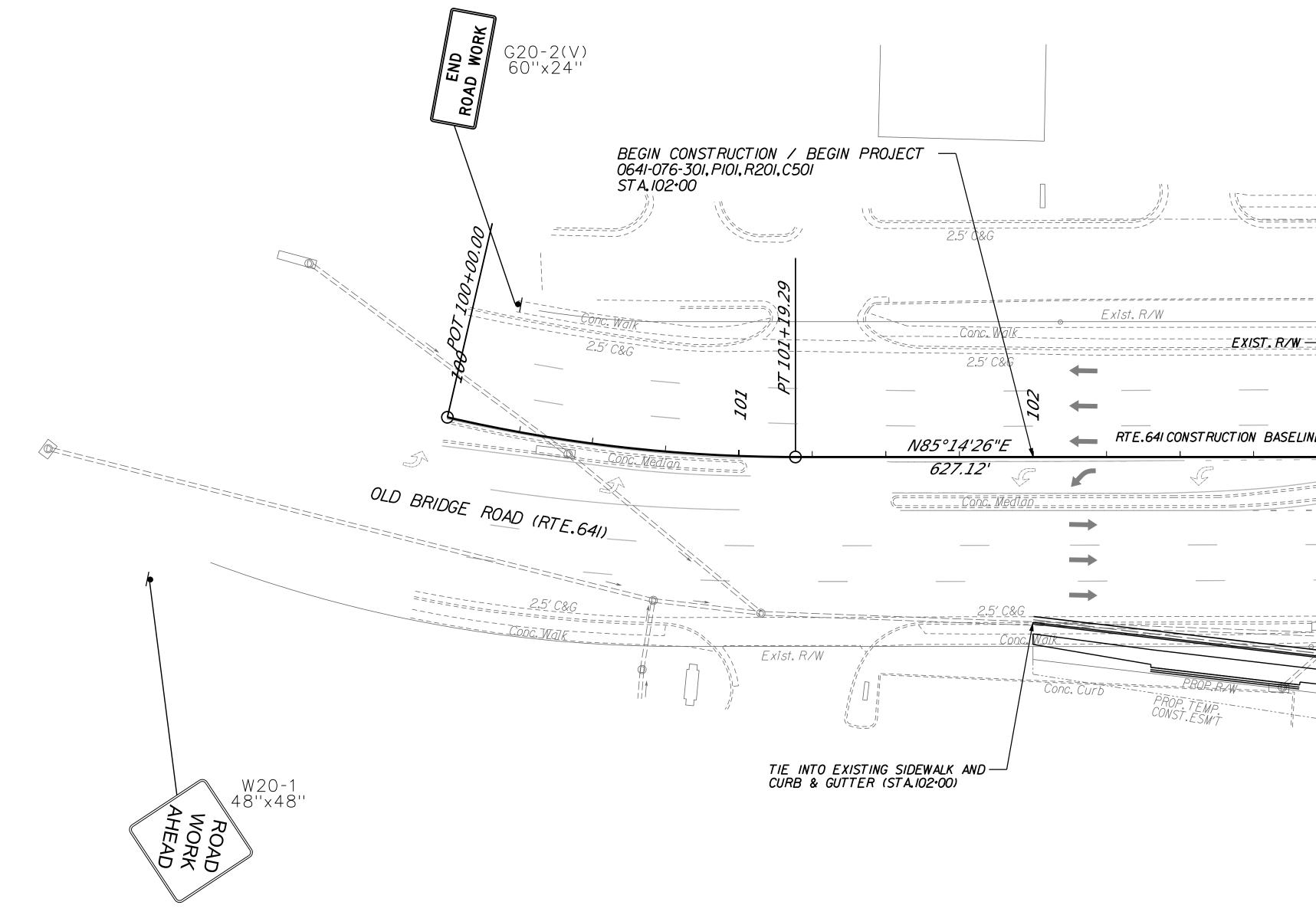
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TEMPORARY PAVEMENT	MARKING LE
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E TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE)	D TYPE A, WH
F TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)	TYPE B, CL (45 degree
G TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH	P TYPE B, CL (2' LINE,
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TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST	

# TEMPORARY TRAFFIC CONTROL (TTO PLAN - STAGE 2

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YELLOW PAVEMENT LINE MARKING, 24" WIDTH, EES, 20' SPACE, 300' GAP)

### LEGEND

DENOTES CONSTRUCTION THIS STAGE

DENOTES CONSTRUCTION DURING SHORT-TERM LANE CLOSURES

DENOTES CONSTRUCTION PREVIOUS

● ● ● DENOTES GROUP 2 CHANNELIZING D

### dll55530lh(7),dgn Plotted By: jthompson

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_ 

# <u>SEQUENCE OF CONSTRUCTION</u>

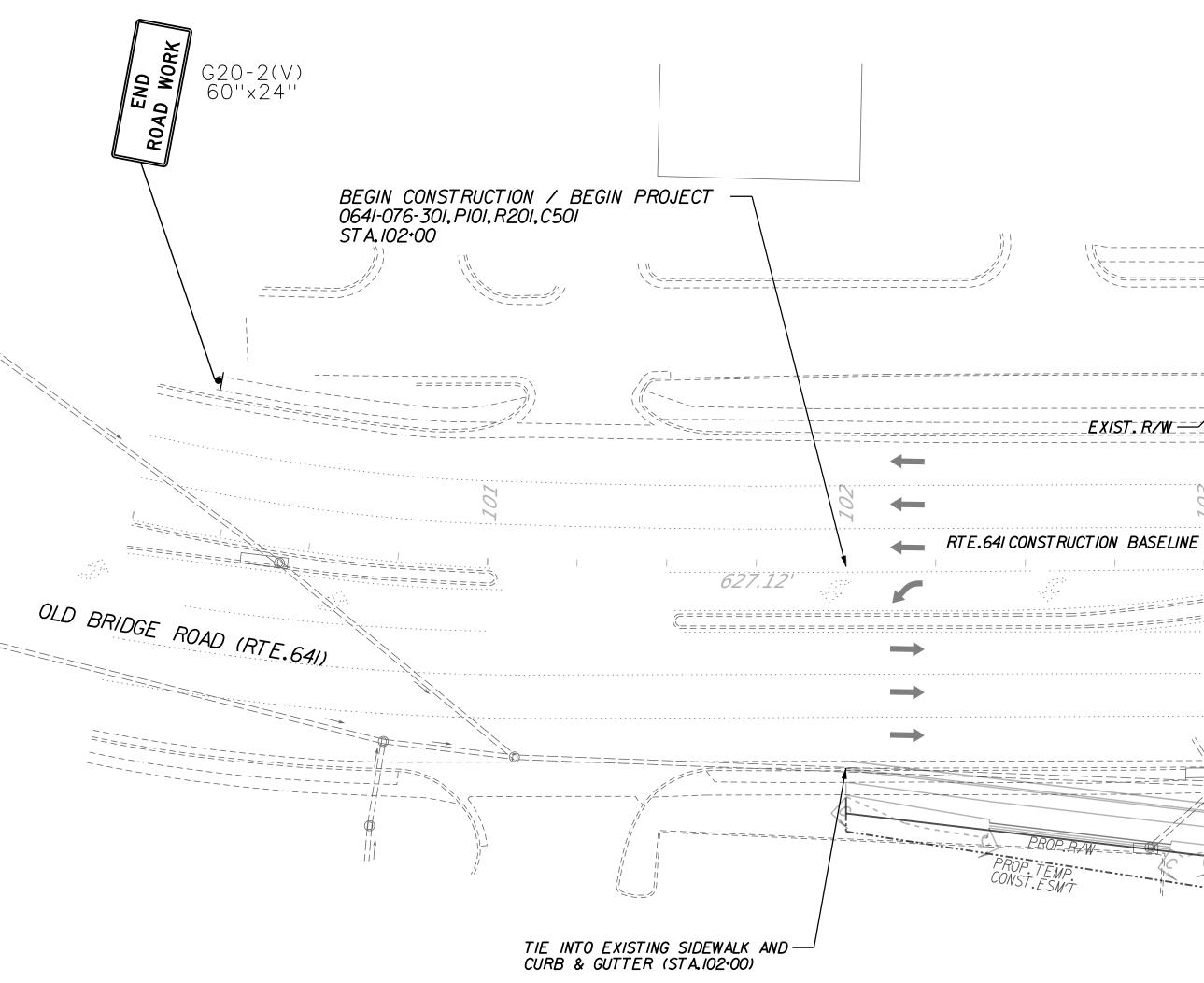
Remove existing storm sewer system along Old Bridge Road between Sta.108+25,Lt of CL, /. and Sta.110+00,Rt of CL.

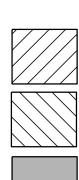
W20-1 48''x48''

ROAD WORK HEAD

- Install proposed storm sewer system along Old Bridge Road between Str.5-4 and Str.5-3 2. and tie into existing storm sewer system. Maintain flow through system.
- Install remainder of proposed storm sewer system from Str.5-5 to Str.5-4. 3.

# DRAINAGE INSTALLATION PLAN STAGE 2





LEGEND

DENOTES CONSTRUCTION THIS STAGE

DENOTES CONSTRUCTION DURING SHORT-TERM LANE CLOSURES

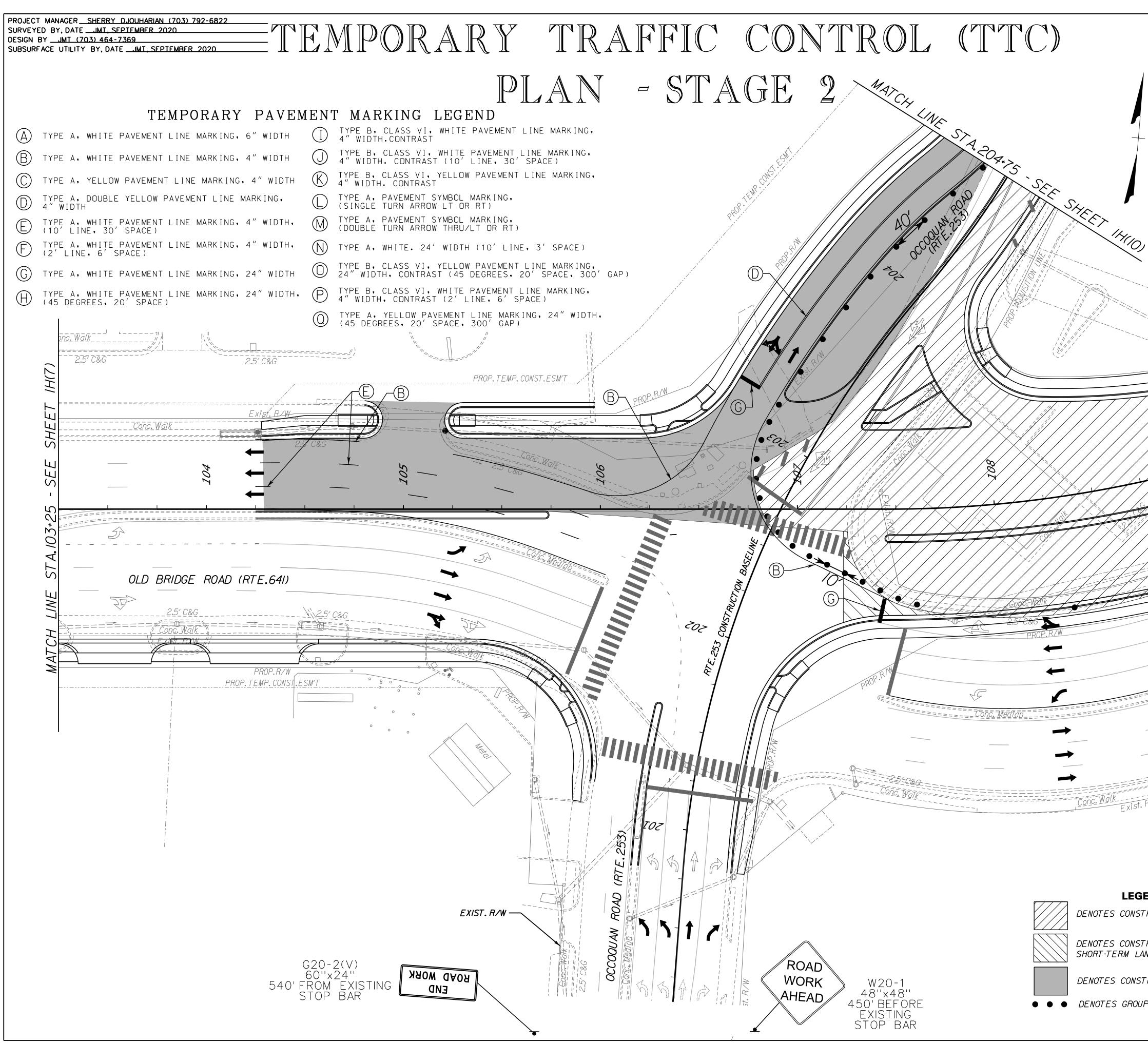
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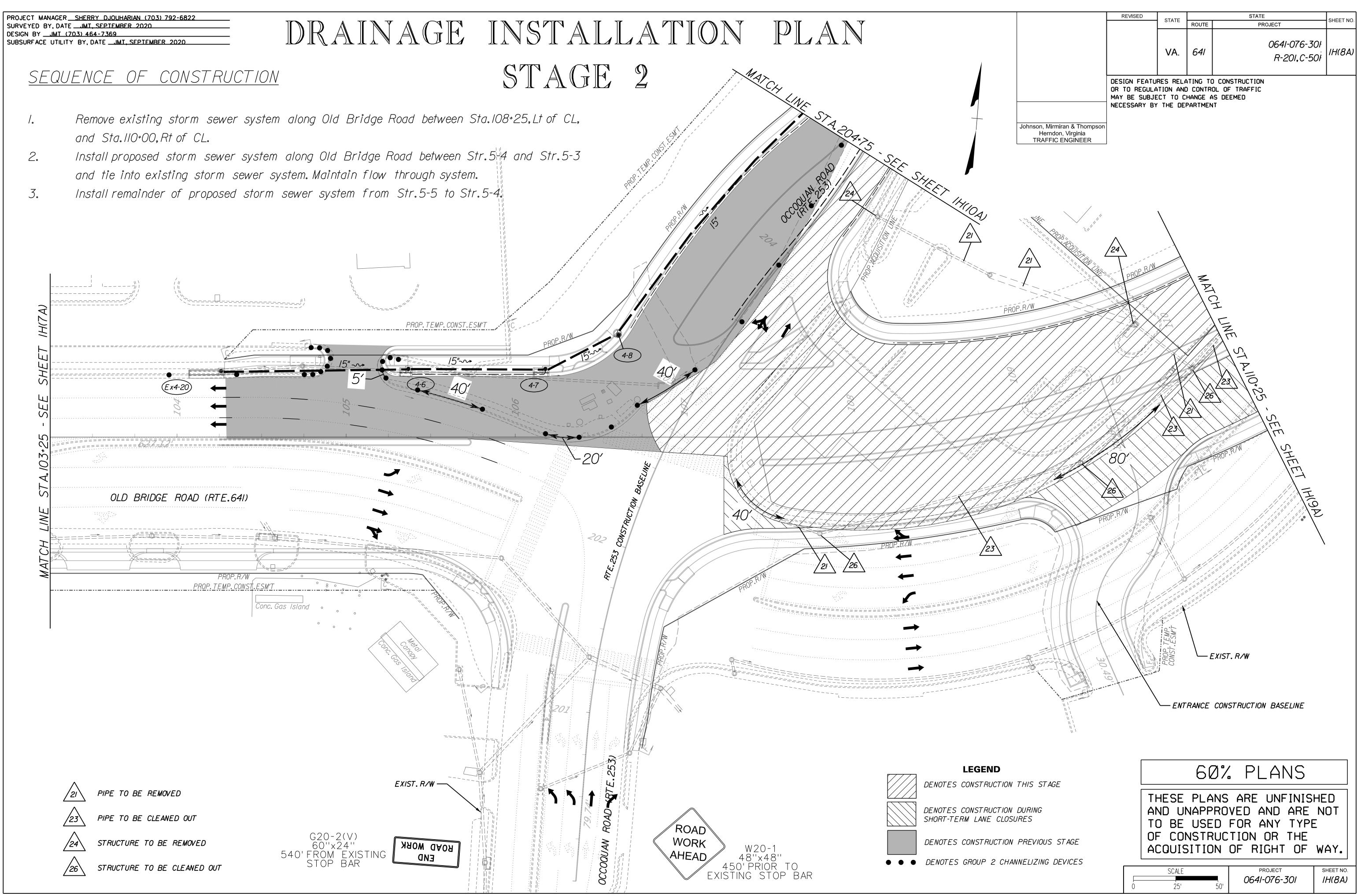
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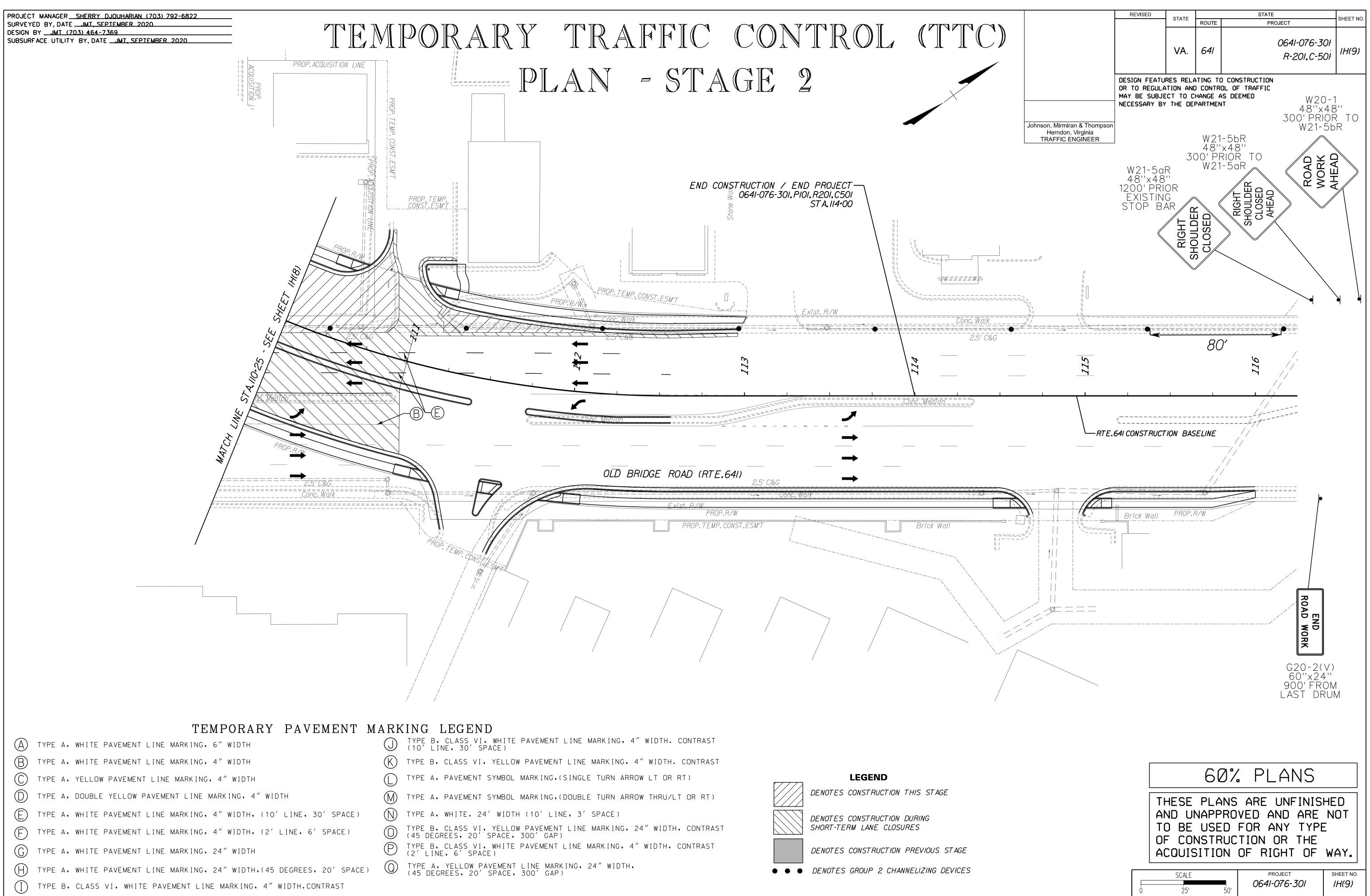
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st. R/W		Ň			
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OUP 2 CHANNELIZING DEVICES		SCALE	101		HI.
	0	25'	Ę	0641-076-301	IH(8)

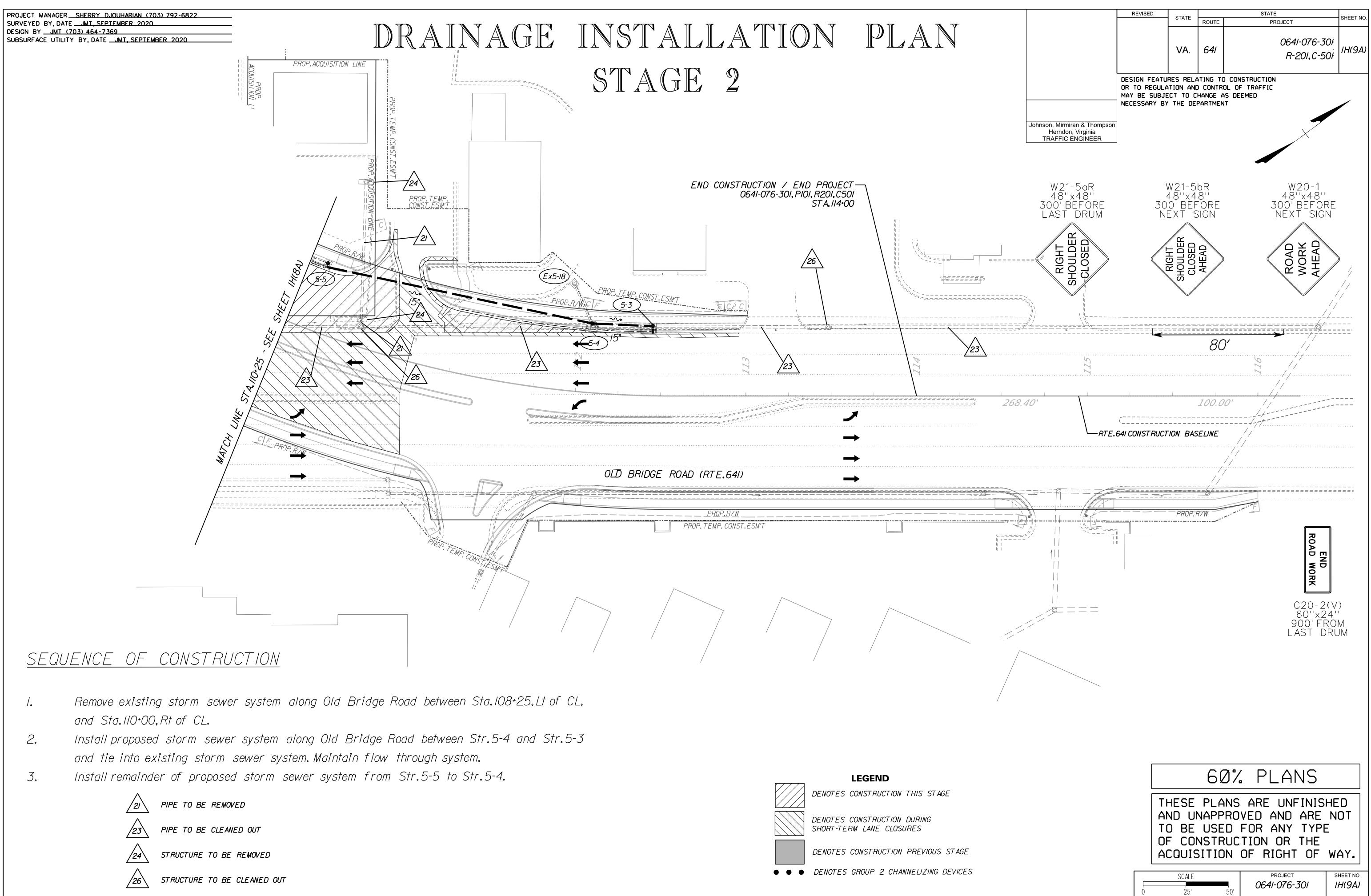


dll55530lh(8a).dgn Plotted By: jthompson

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dll55530lh(9),dgn Plotted By: jthompson

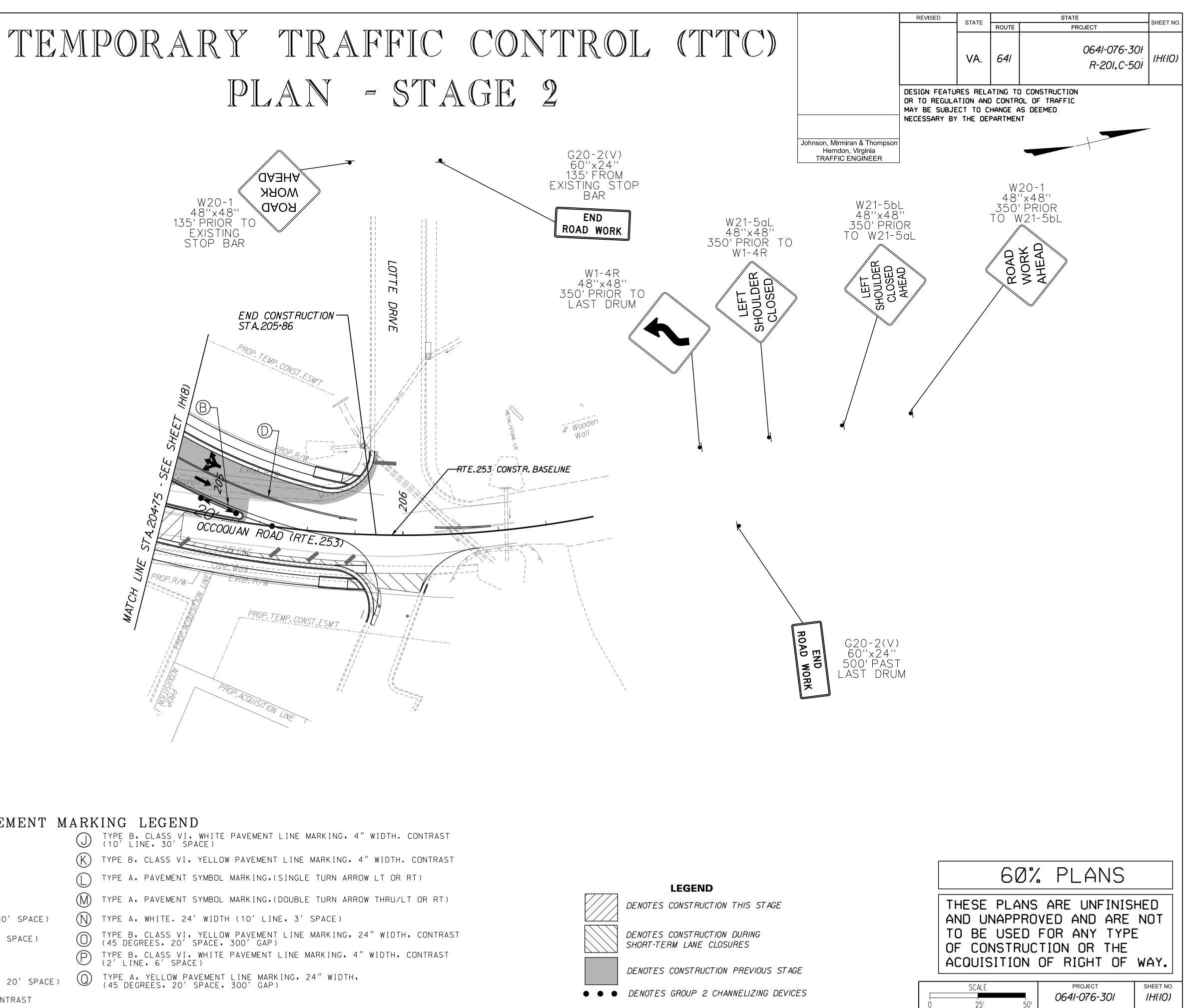


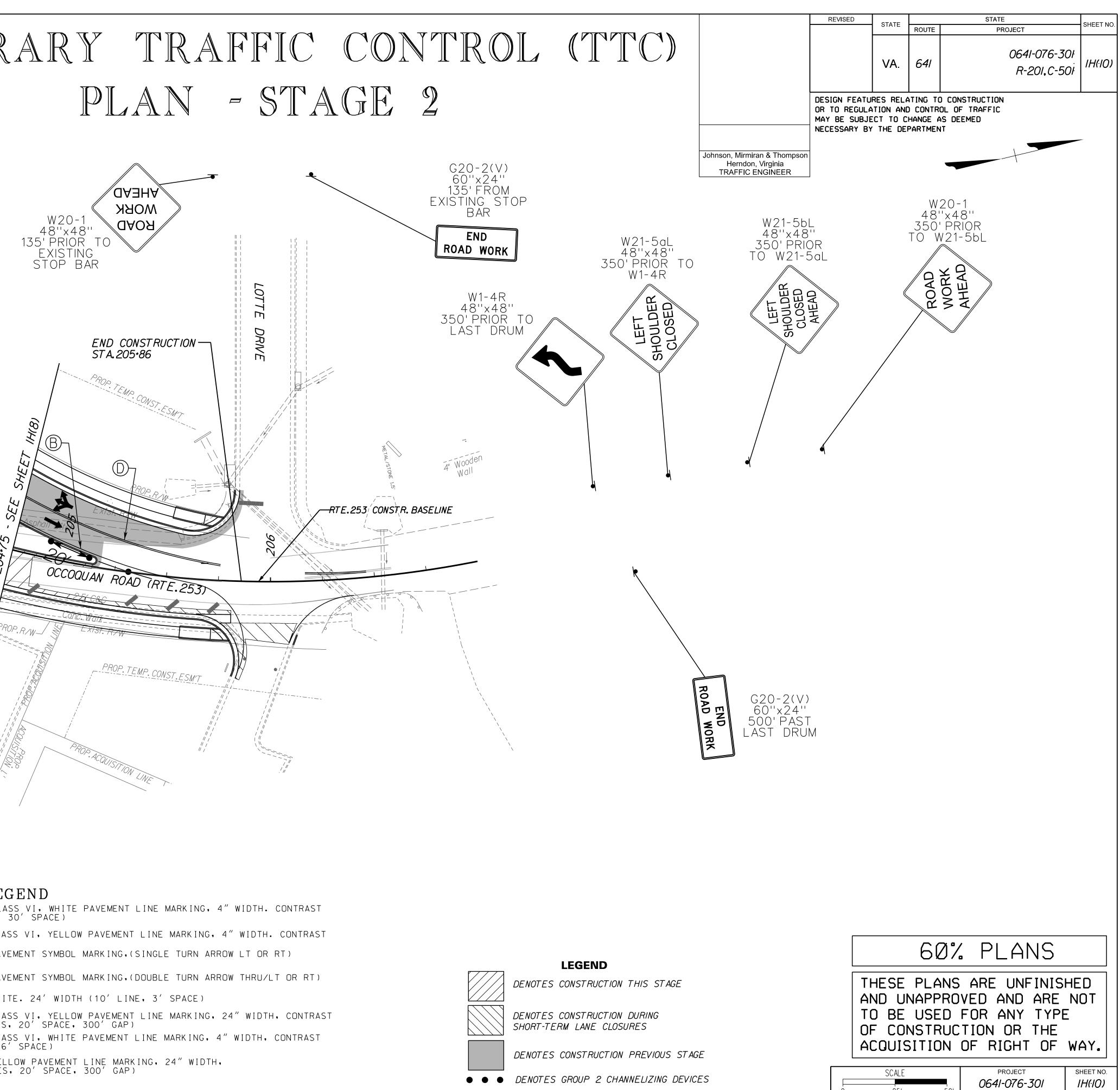
dl155530lh(9a),dgn Plotted By: jthompson

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_ SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020\_

	TEMPORARY PAVEMENT	MARKING LE
(A)	TYPE A, WHITE PAVEMENT LINE MARKING, 6" WIDTH	U TYPE B, CL (10' LINE,
B	TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH	K TYPE B, CL
$\bigcirc$	TYPE A, YELLOW PAVEMENT LINE MARKING, 4" WIDTH	U TYPE A, PA
$\bigcirc$	TYPE A, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH	M TYPE A, PA
E	TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE)	N TYPE A, WH
$\mathbb{F}$	TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)	U TYPE B, CL (45 degree
G	TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH	<pre>P TYPE B, CL (2' LINE,</pre>
(H)	TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH,(45 DEGREES, 20' SPACE	TYPE A, YE (45 DEGREE
	TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST	





WA7

CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST E, 30' SPACE) CLASS VI, YELLOW PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST PAVEMENT SYMBOL MARKING, (SINGLE TURN ARROW LT OR RT) PAVEMENT SYMBOL MARKING, (DOUBLE TURN ARROW THRU/LT OR RT) WHITE. 24' WIDTH (10' LINE, 3' SPACE) EES, 20' SPACE, 300' GAP) CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH, CONTRAST 6' SPACE)



### dl155530lh(10).dgn Plotted By: jthompson

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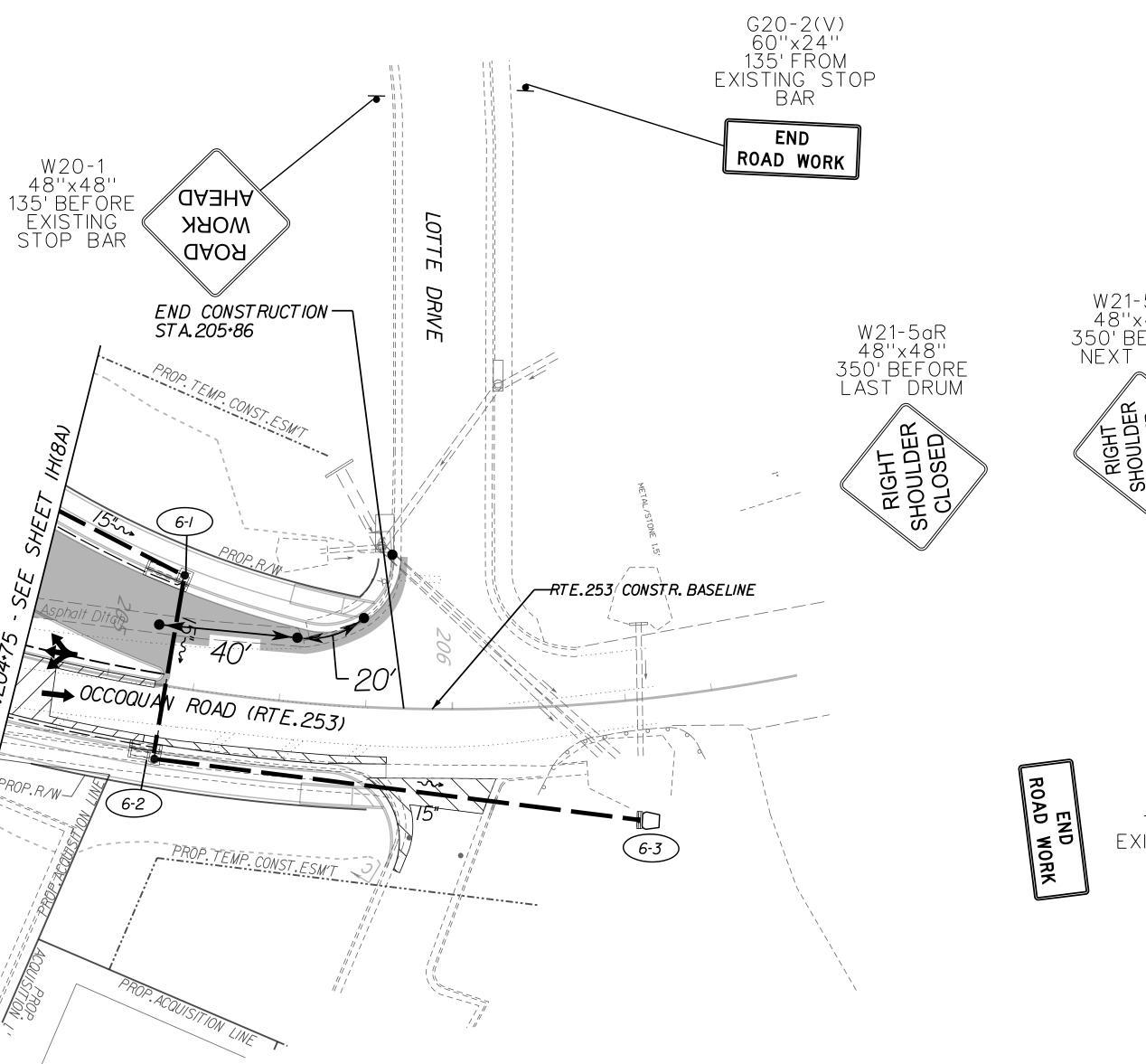
PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020 DESIGN BY \_\_\_\_\_\_\_ 464-7369 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020\_

WA7

# <u>SEQUENCE OF CONSTRUCTION</u>

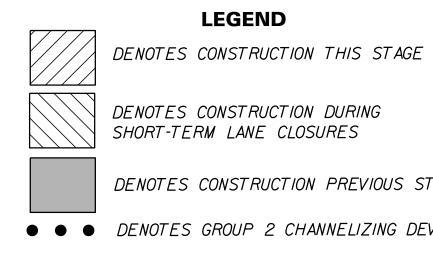
- /. and Sta.110+00,Rt of CL.
- 2.
- 3.

# DRAINAGE INSTALLATION PLAN STAGE 2



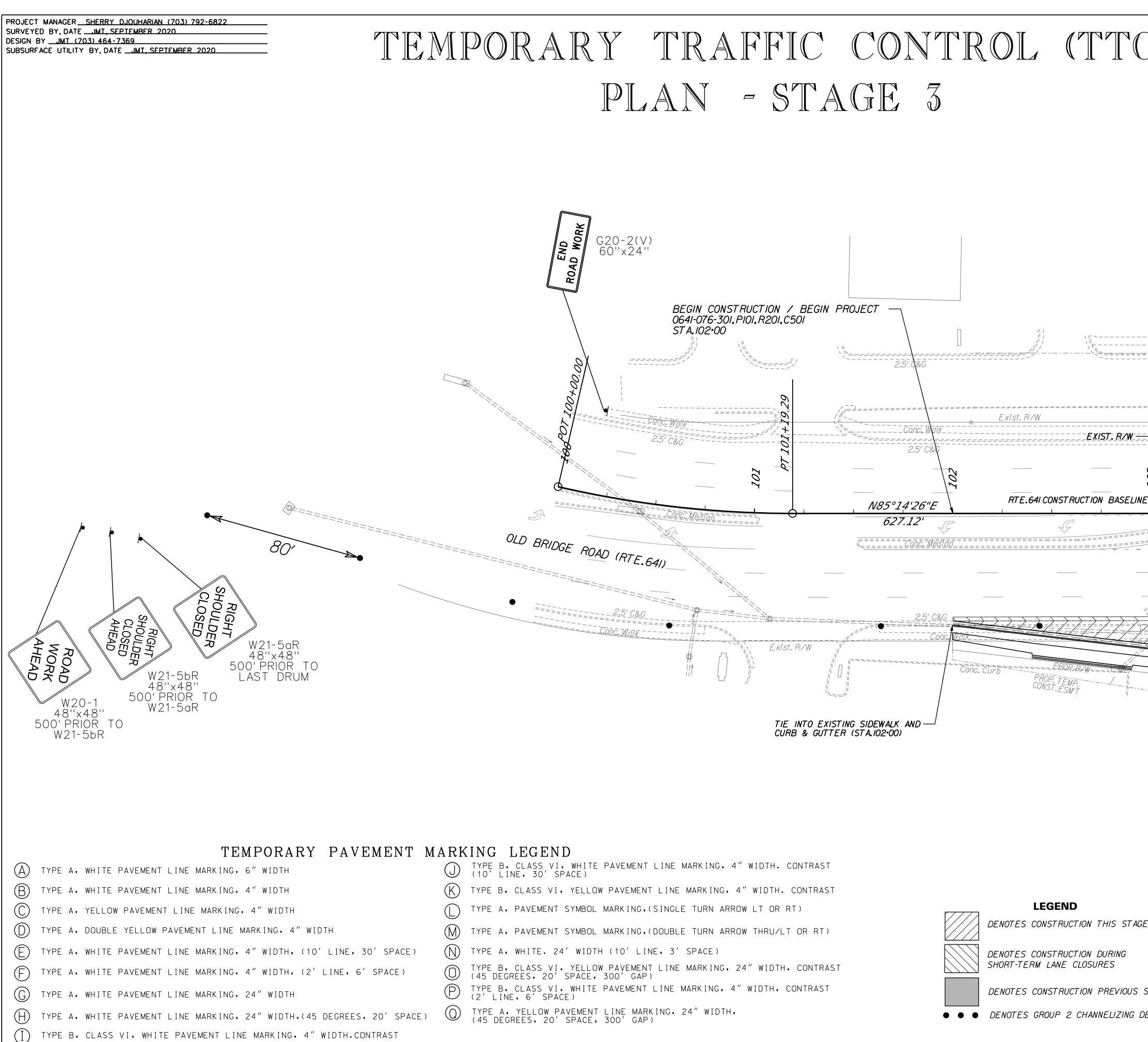
Remove existing storm sewer system along Old Bridge Road between Sta.108+25,Lt of CL,

Install proposed storm sewer system along Old Bridge Road between Str.5-4 and Str.5-3 and tie into existing storm sewer system. Maintain flow through system. Install remainder of proposed storm sewer system from Str.5-5 to Str.5-4.



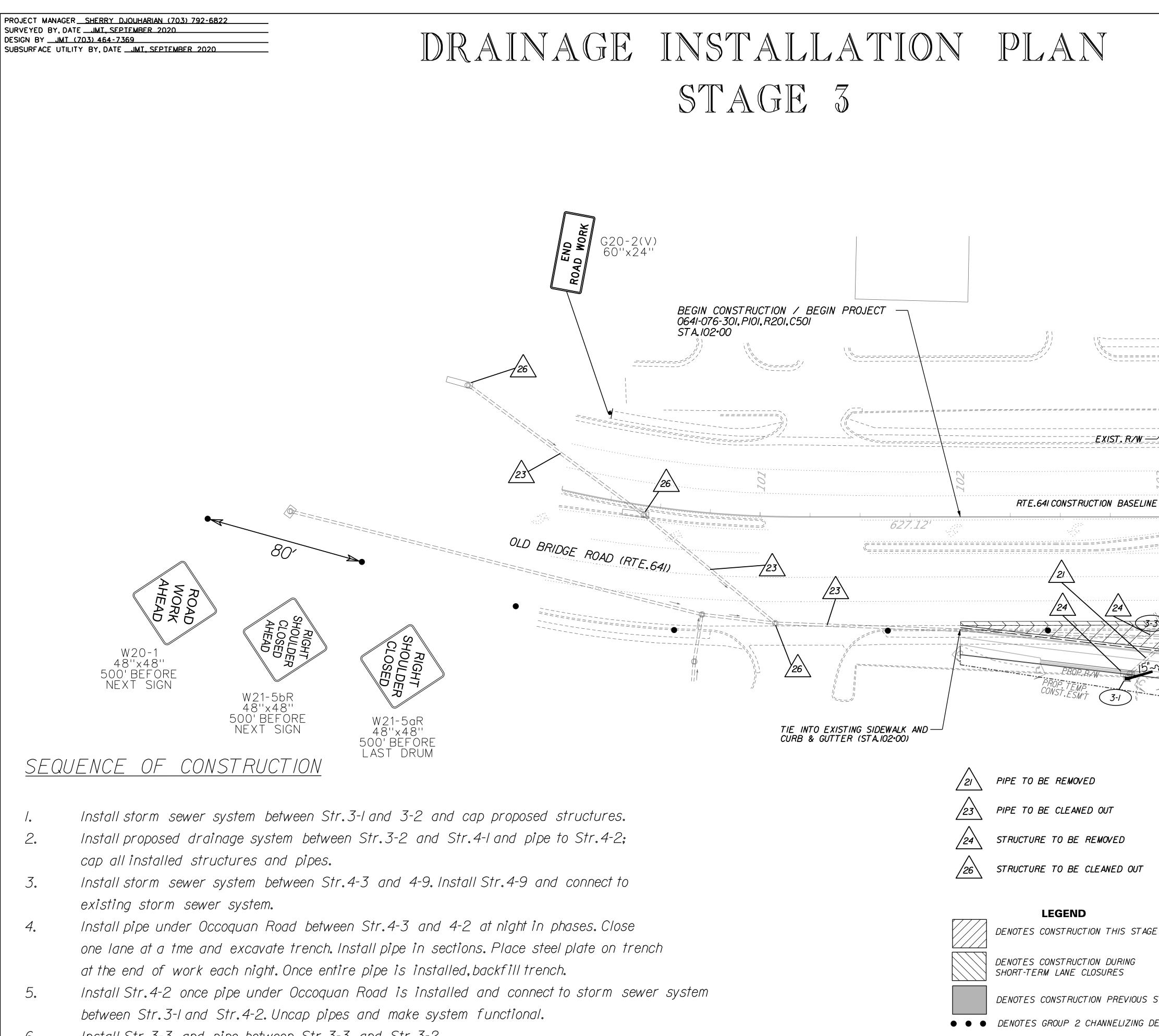
			5530In(10a Ited By: jth	-		
	REVISED	STATE	ROUTE	STATE	OJECT	SHEET NO
		VA.	64I	PR	0641-076-30ł R-201,C-50ł	ΙΗ(ΙΟΑ
W21-5bR 48''x48'' O' BEFORE EXT SIGN	W20-1 48''x48' 350' BEFO NEXT SIG	LATION ANI JECT TO C BY THE DE	) CONTRO HANGE A			
RIGHT	ROAD					
G20-2(V) 60''x24'' 750' FROM EXISTING STOP BAR						
				)% PL		
STAGE DUS STAGE	4 1 0	AND U FO BE DF CO	NAPP USE NSTR	ROVED A D FOR A UCTION (	UNFINISHE ND ARE N NY TYPE OR THE GHT OF W	OT
		SCALE		PR	OJECT S	HEET NO.

IZING DEVICES	0	SCALE 25'	50'	project 0641-076-301	sheet no. IH(IOA)
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### dll55530lh(ll),dgn Plotted By: jthompson

			ed By: jthomp		
	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
		VA.	641	0641-076-304 R-201,C-504	IH(11)
Johnson, Mirmiran & TI Herndon, Virgin TRAFFIC ENGINE	ia	RES RELA ATION AND ECT TO C	TING TO CO CONTROL HANGE AS C	R-201,C-50	<i> H(  )</i>
MATCH LINE STA.103+25 - SEE SHEET IH(I2)					
IGE S ST AGE DEVICES		ND UI O BE F COI	PLANS NAPPR( USED NSTRU	Z PLANS S ARE UNFINISHE OVED AND ARE N FOR ANY TYPE CTION OR THE OF RIGHT OF W	OT

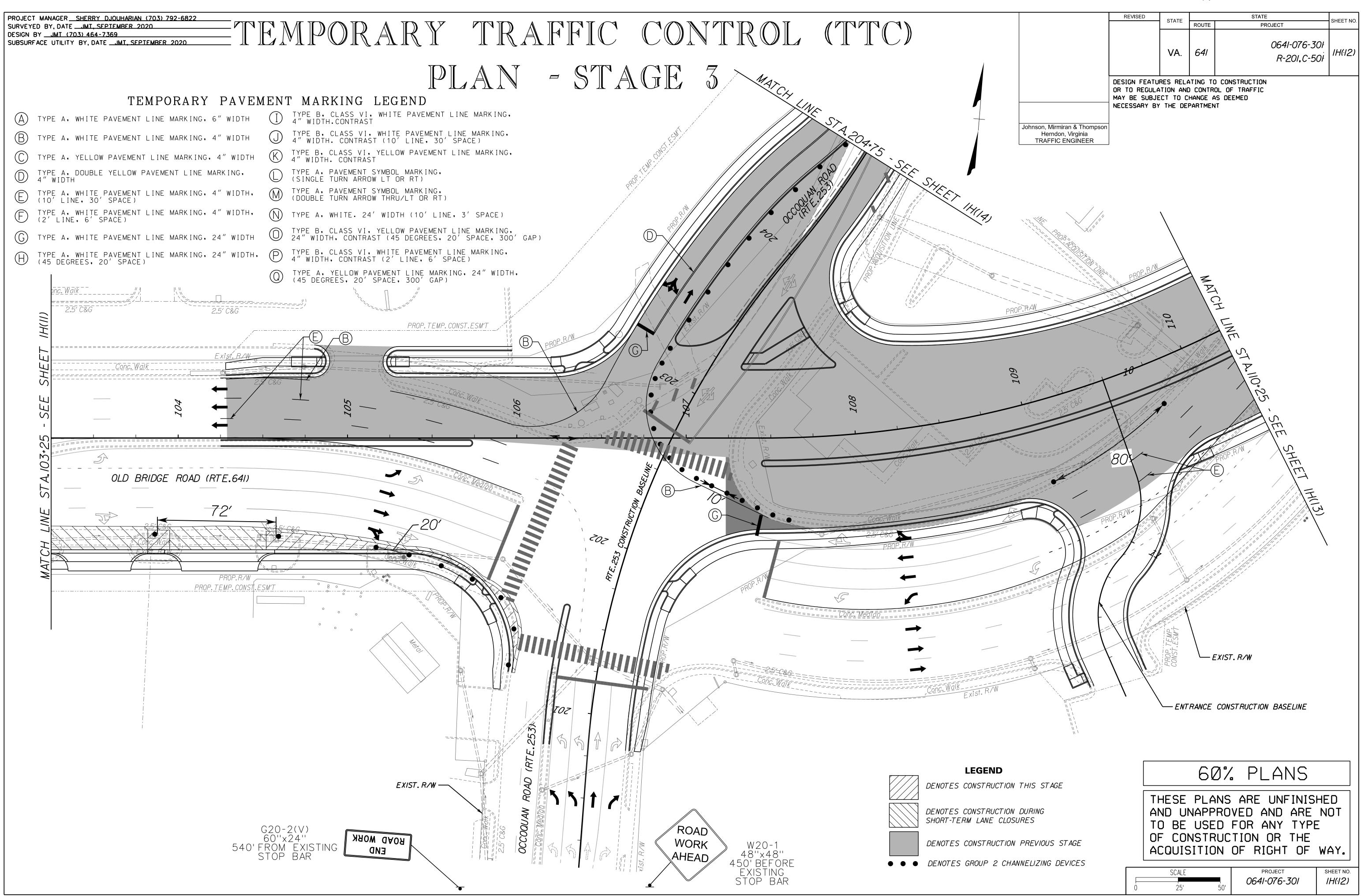


Install Str. 3-3 and pipe between Str. 3-3 and Str. 3-2. 6.

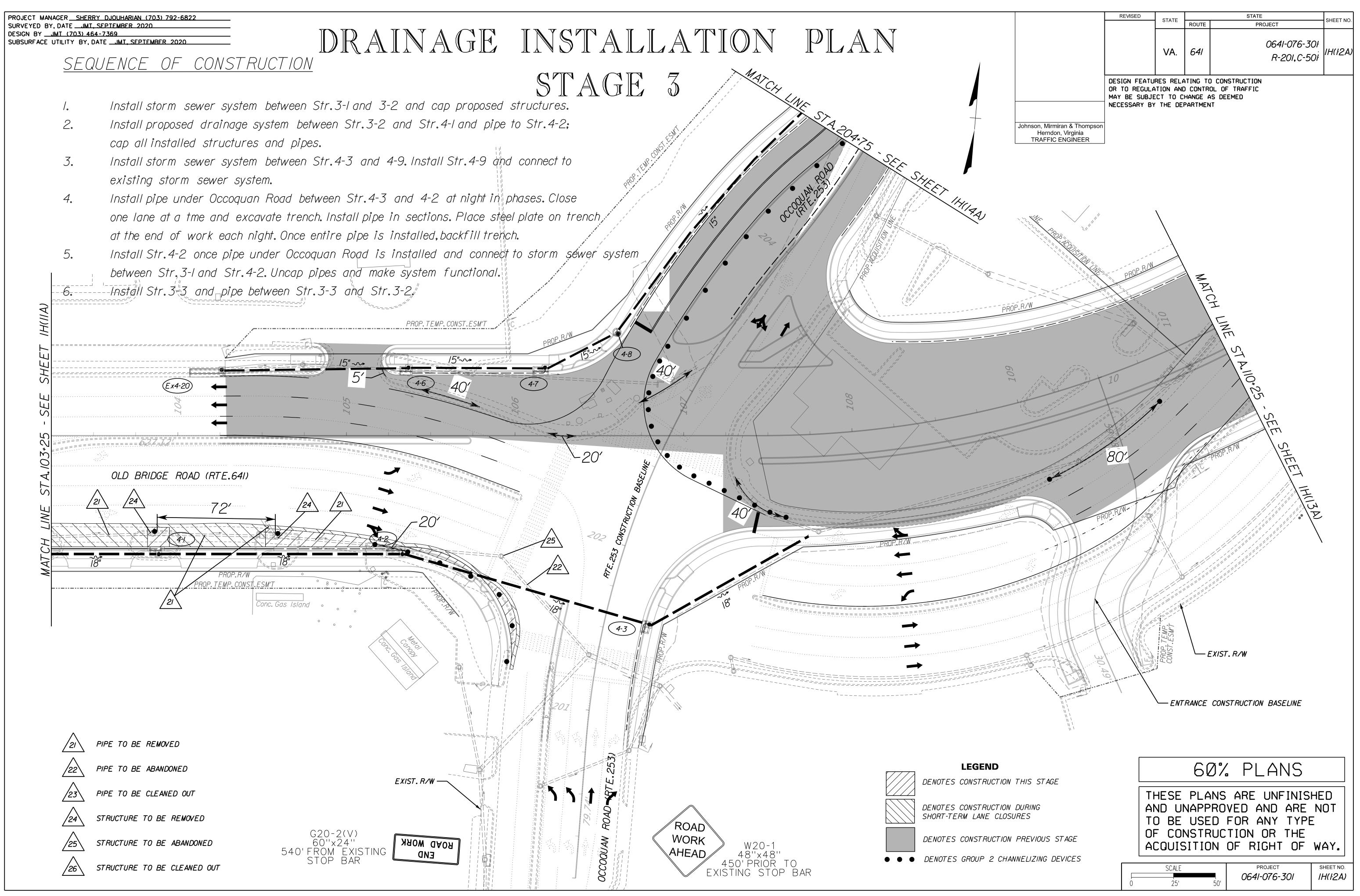
### dl155530lh(lla).dgn Plotted By: jthompson

		Plotted By: jthompson							
		REVISED	STATE	ROUTE	STATE	OJECT	SHEET NO.		
			VA.	641		0641-076-30ł R-201,C-50ł	IH(IIA)		
			ATION AND	) CONTRO	CONSTRUCTION IL OF TRAFFIC S DEEMED		<u> </u>		
	Johnson, Mirmiran & Thompson	NECESSARY BY							
	Herndon, Virginia TRAFFIC ENGINEER								
 <b>/</b>	<u> </u>								
2	SHEE								
E	5 - SEE								
	STA. 103+25								
21	LINE ST								
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	Z W								
3-2	$\sum$								
E					)% PL				
		A	ND UI	NAPP	ROVED A	UNFINISHE ND ARE N NY TYPE			
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DEVICES		0	SCALE , 25'				SHEET NO. <b>IH(11A)</b>		
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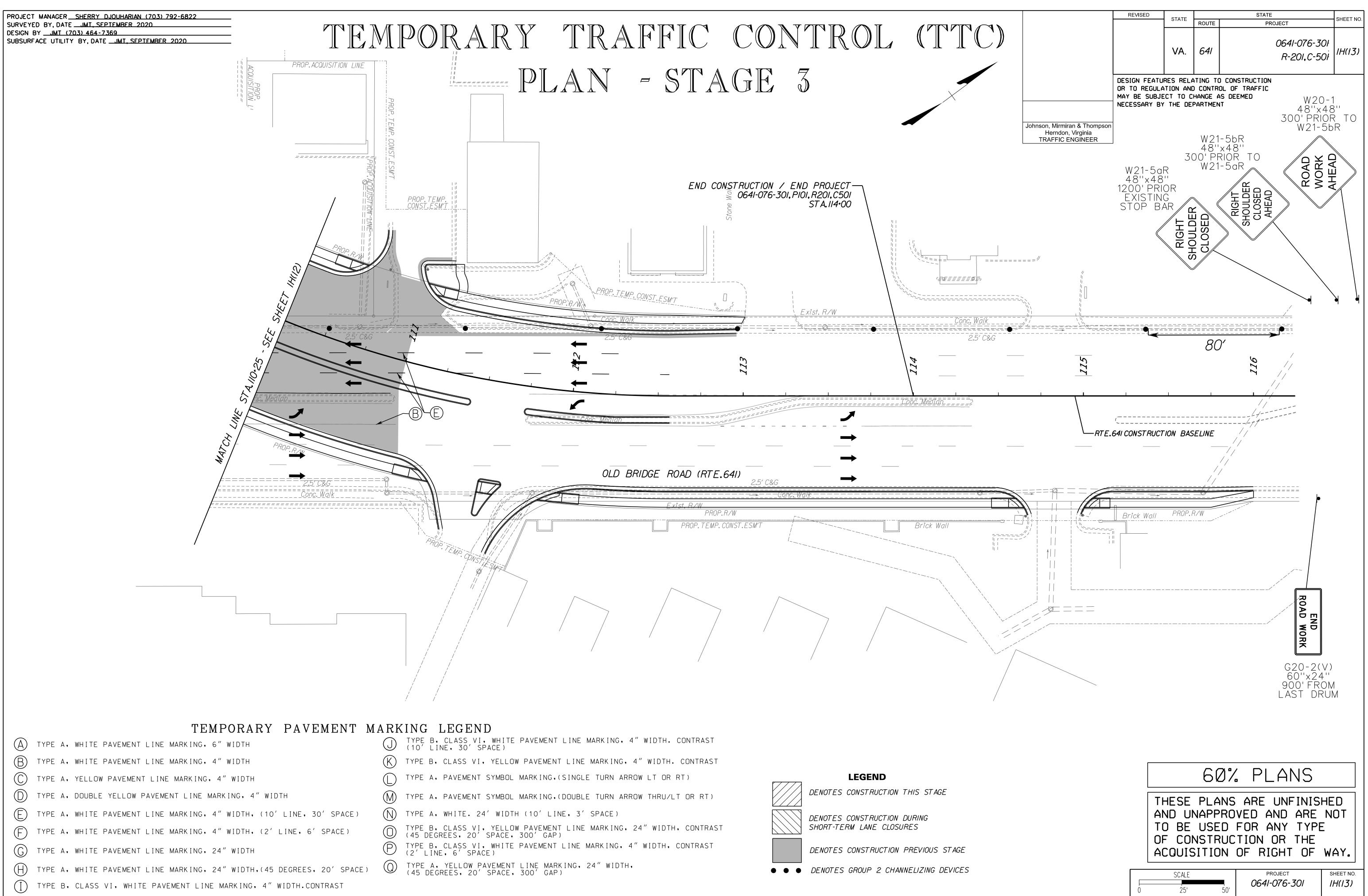


dll55530lh(l2),dgn Plotted By: jthompson

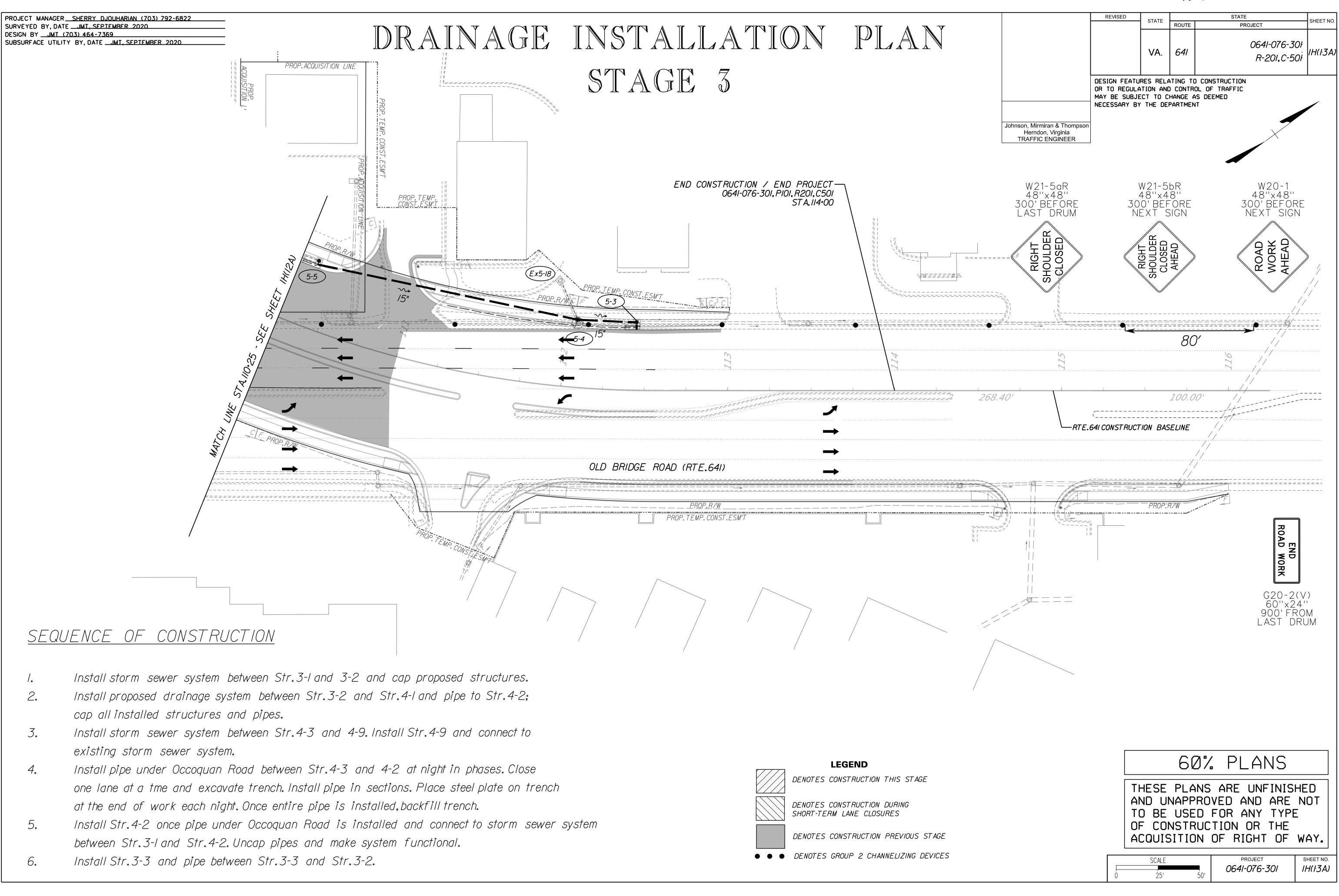


dll55530lh(l2a).dgn Plotted By: jthompson

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dll55530lh(13),dgn Plotted By: jthompson



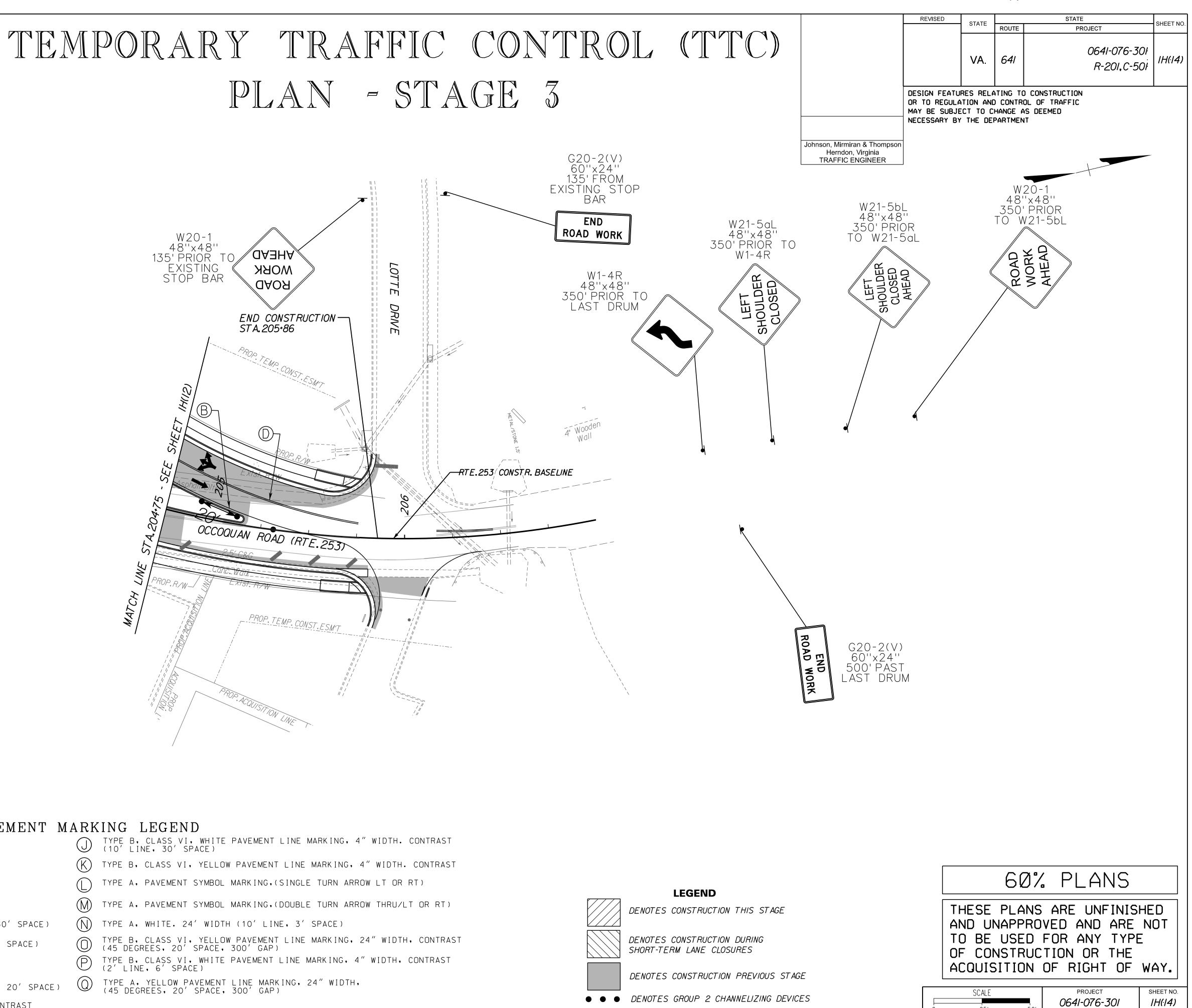
dll55530lh(13a),dgn Plotted By: jthompson

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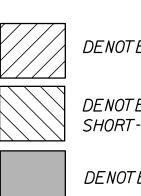
PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_ 

TEMPORARY PAVEMENT MARKING LEGEND (A) TYPE A, WHITE PAVEMENT LINE MARKING, 6" WIDTH B TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH C TYPE A, YELLOW PAVEMENT LINE MARKING, 4" WIDTH  $\bigcirc$ (M)TYPE A, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH E TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE) (N)F TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)  $\mathbb{P}$  $\bigcirc$ TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH (H) TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH, (45 DEGREES, 20' SPACE) () TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST

# PLAN - STAGE 3



TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST (10' LINE, 30' SPACE) TYPE B, CLASS VI, YELLOW PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST TYPE A, PAVEMENT SYMBOL MARKING, (SINGLE TURN ARROW LT OR RT) TYPE A, PAVEMENT SYMBOL MARKING, (DOUBLE TURN ARROW THRU/LT OR RT) TYPE A, WHITE. 24' WIDTH (10' LINE, 3' SPACE) (45 DEGREES, 20' SPACE, 300' GAP) TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH, CONTRAST (2' LINE, 6' SPACE)



dl155530lh(14),dgn Plotted By: jthompson

25'

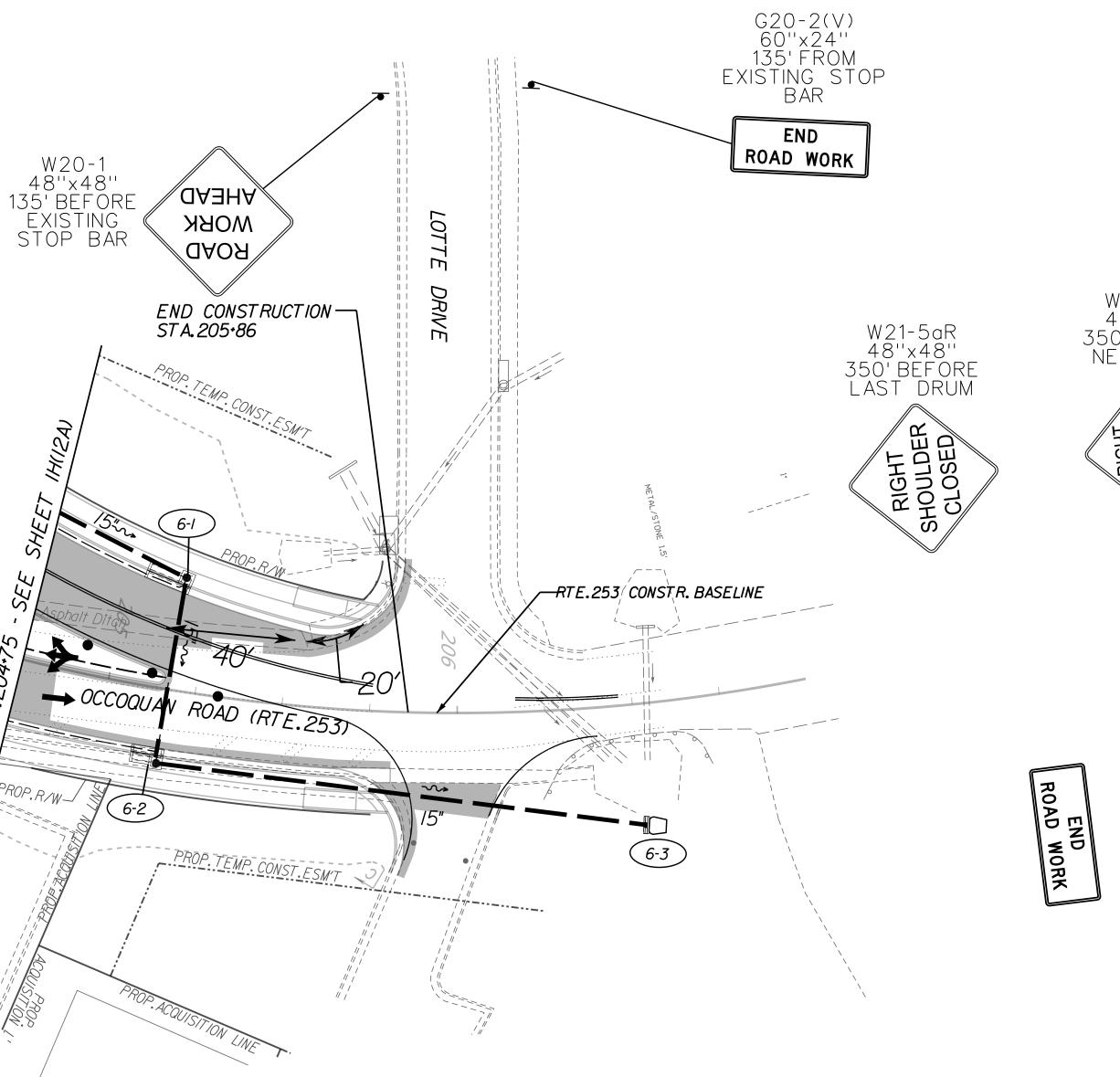
PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020

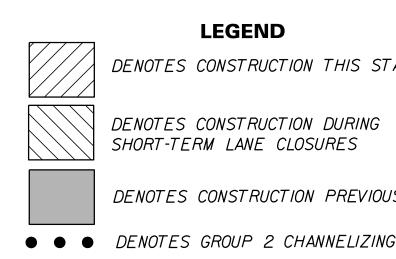
# DRAINAGE INSTALLATION PLAN STAGE 3

# NA7

# SEQUENCE OF CONSTRUCTION

- Install storm sewer system between Str.3-Land 3-2 and cap proposed structures. /. Install proposed drainage system between Str.3-2 and Str.4-Land pipe to Str.4-2; 2.
  - cap all installed structures and pipes.
- Install storm sewer system between Str.4-3 and 4-9. Install Str.4-9 and connect to 3. existing storm sewer system.
- Install pipe under Occoquan Road between Str.4-3 and 4-2 at night in phases. Close 4. one lane at a tme and excavate trench. Install pipe in sections. Place steel plate on trench at the end of work each night. Once entire pipe is installed, backfill trench.
- Install Str.4-2 once pipe under Occoquan Road is installed and connect to storm sewer system 5. between Str. 3-I and Str. 4-2. Uncap pipes and make system functional.
- Install Str. 3-3 and pipe between Str. 3-3 and Str. 3-2. 6.

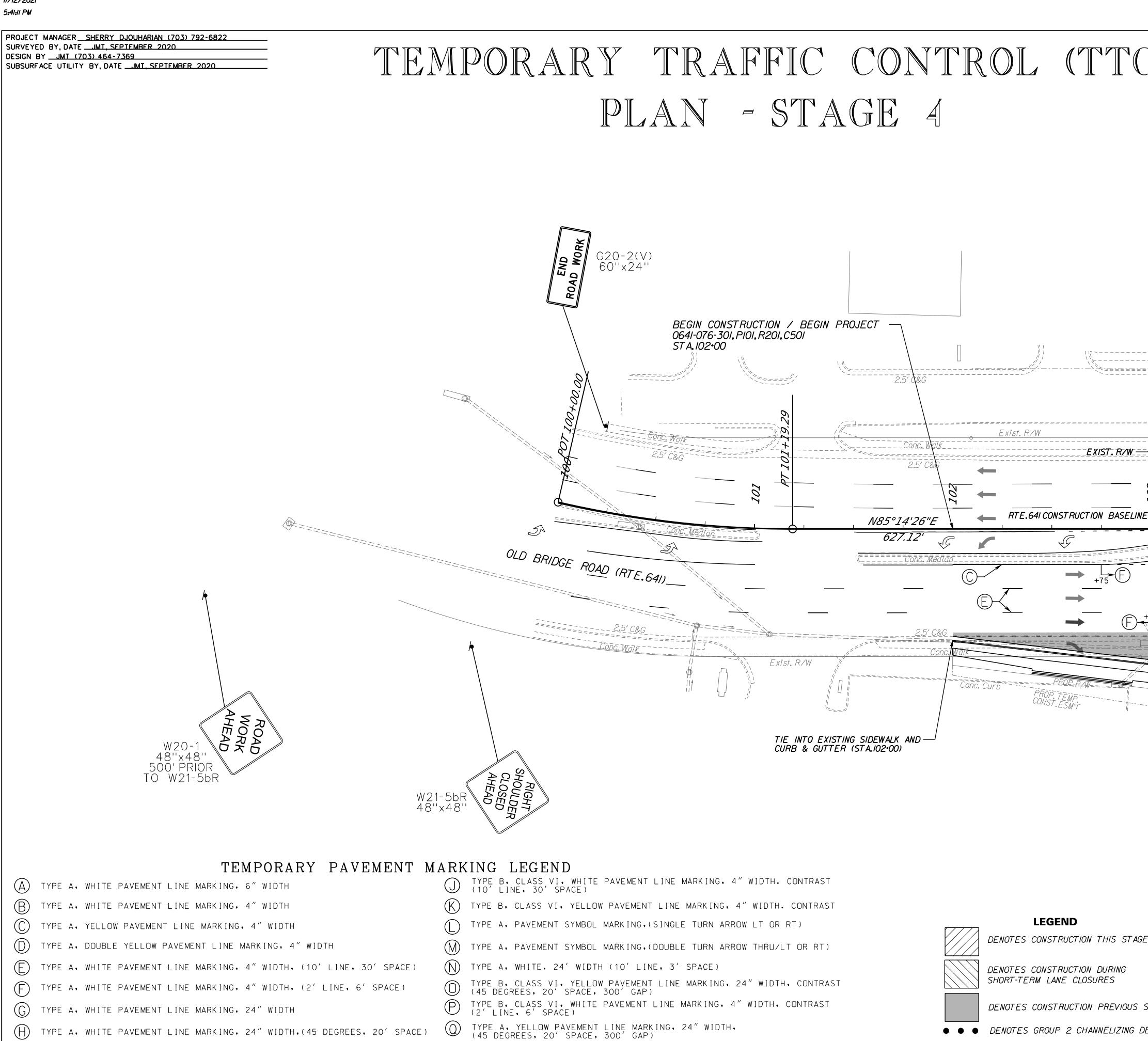




### dl1555301h(14a).dgn Plotted By: jthompson

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			VA.	ROUTE 641		<u> </u>	ојест 0641-076-30 R-201,C-50	
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		NECESSARY B'	Y THE DE	PARTMEN	IT			
	Johnson, Mirmiran & Thompson Herndon, Virginia TRAFFIC ENGINEER							_
							+	
		W20-1 48''x48'' 50' BEFOF NEXT_SIGN						
V21-5b 8''x48 2' BEF XT S	0RF 3	50' BEFOF NEXT SIGN	SE N					
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E C		ROAD WORK AHEAD						
RIGHT SHOULDER CLOSED	AHEA	RZA	//					
HS								
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	BAR							
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				bk	IJ/.	۲L	ANS	
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		T	O BE	USE	DF	OR A	NY TYPE	
		-				ION ( F RI(	OR THE GHT OF	WAY.
US STAG			SCALE			PR	OJECT	SHEET NO.
IG DEVIC		0	25'		50'	0641-0	076-301	IH(ŀ4A)

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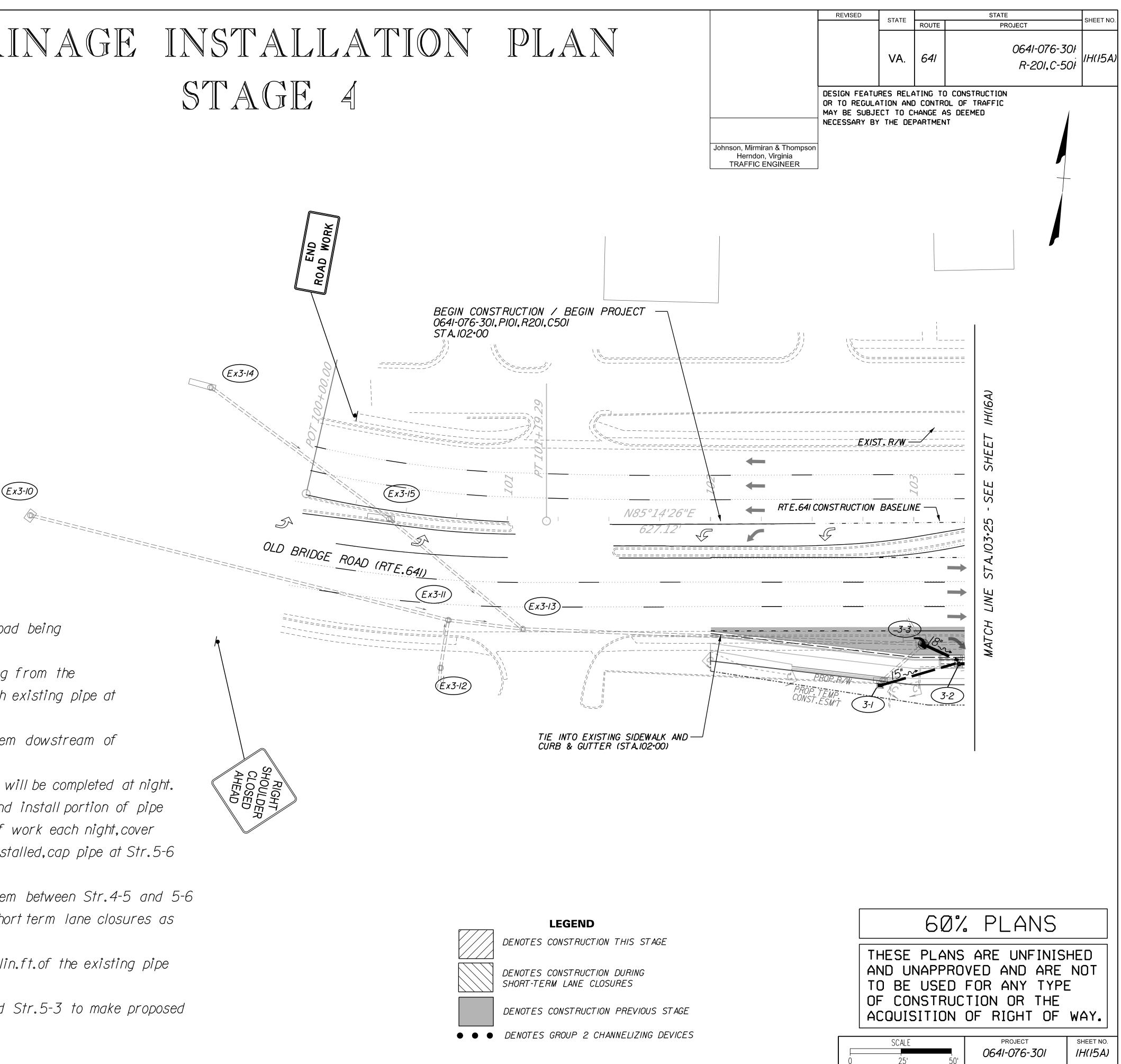
() TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST

### dll55530lf(15).dgn Plotted By: jthompson

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		REVISED	STATE		STATE		SHEET NO.
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		OR TO REGULA MAY BE SUBJE NECESSARY BY	ATION AND ECT TO C	) CONTROL HANGE AS	OF TRAFFIC		
	Johnson, Mirmiran & Thompson Herndon, Virginia TRAFFIC ENGINEER						
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S STAGE			- COI	NSTRL	) FOR A JCTION I		<u></u>
DEVICES			SCALE		PR	OJECT S	H Y . SHEET NO. IH(15)
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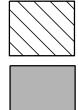
PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 

# DRAINAGE INSTALLATION PLAN STAGE 4



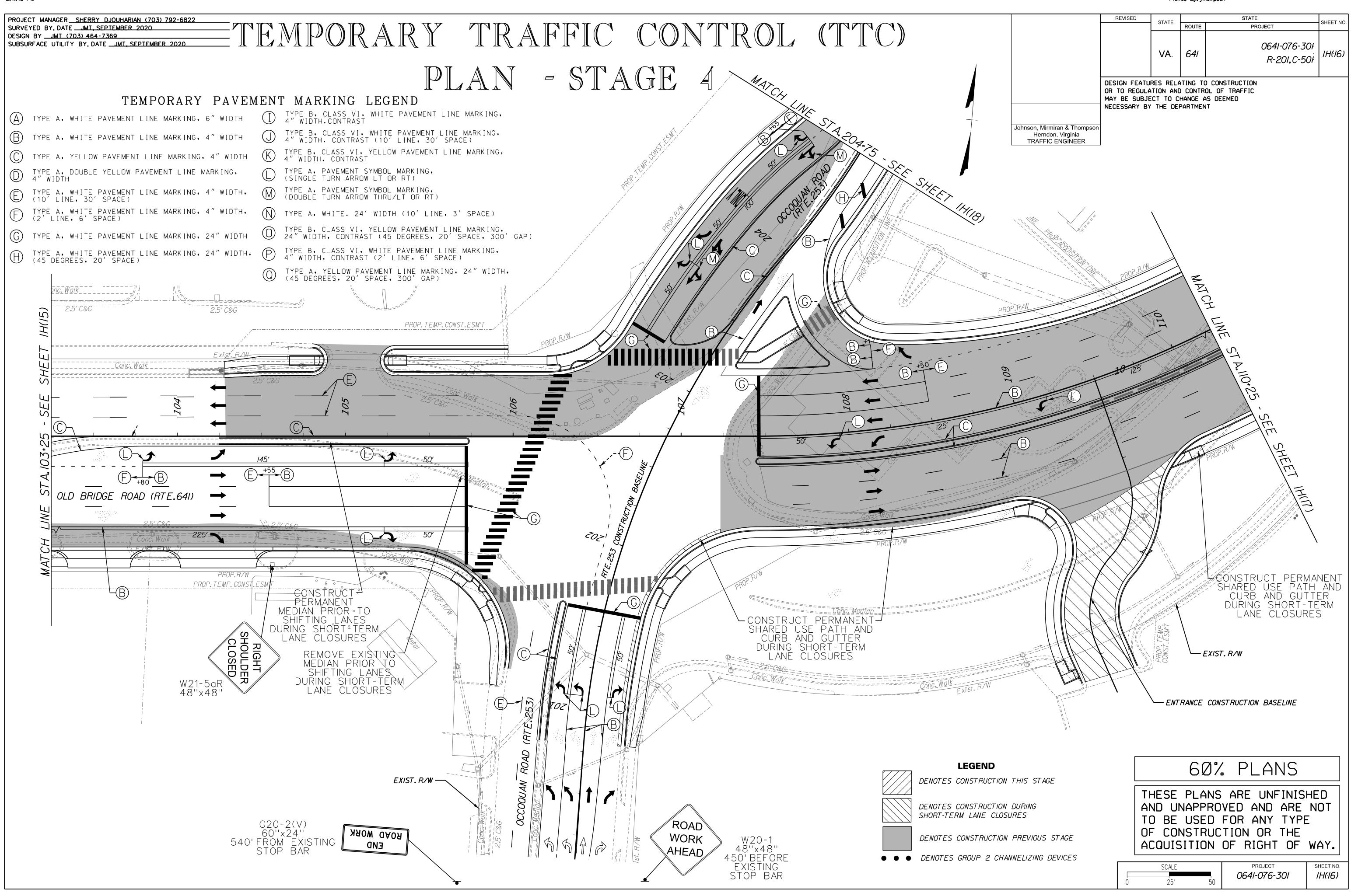
# SEQUENCE OF CONSTRUCTION

- Remove existing storm system along the existing Old Bridge Road being /. demolished up until the location of proposed Str.5-2
- Install storm sewer system between Str.4-9 and Str.5-9, starting from the 2. downstream end and working upstream. Remove connections with existing pipe at Str.4-9. Make proposed storm sewer system functional.
- Plug and abandon previously connect existing storm sewer system dowstream of 3. Str. 4-9 that is connected to Str. 5-4.
- The work to Install the cross pipe between Str.5-6 and Str.5-3 will be completed at night. 4. Closing one lane at a time starting at Str.5-3, excavate trench and install portion of pipe from the downstream end working upstream. Upon completion of work each night, cover trench with steel plate for during the day. Once entire pipe is installed, cap pipe at Str. 5-6 and backfill trench.
- As the median is constructed, install proposed storm sewer system between Str. 4-5 and 5-6 5. from the downstream end working upstream with the use of short term lane closures as necessary.
- When the pipe between Str. 4-5 and 5-7 is installed, remove 20 lin.ft. of the existing pipe 6. connected upstream to Str.5-4.
- Once entire system is installed, unplug pipe between Str.5-6 and Str.5-3 to make proposed 7. storm sewer system functional.

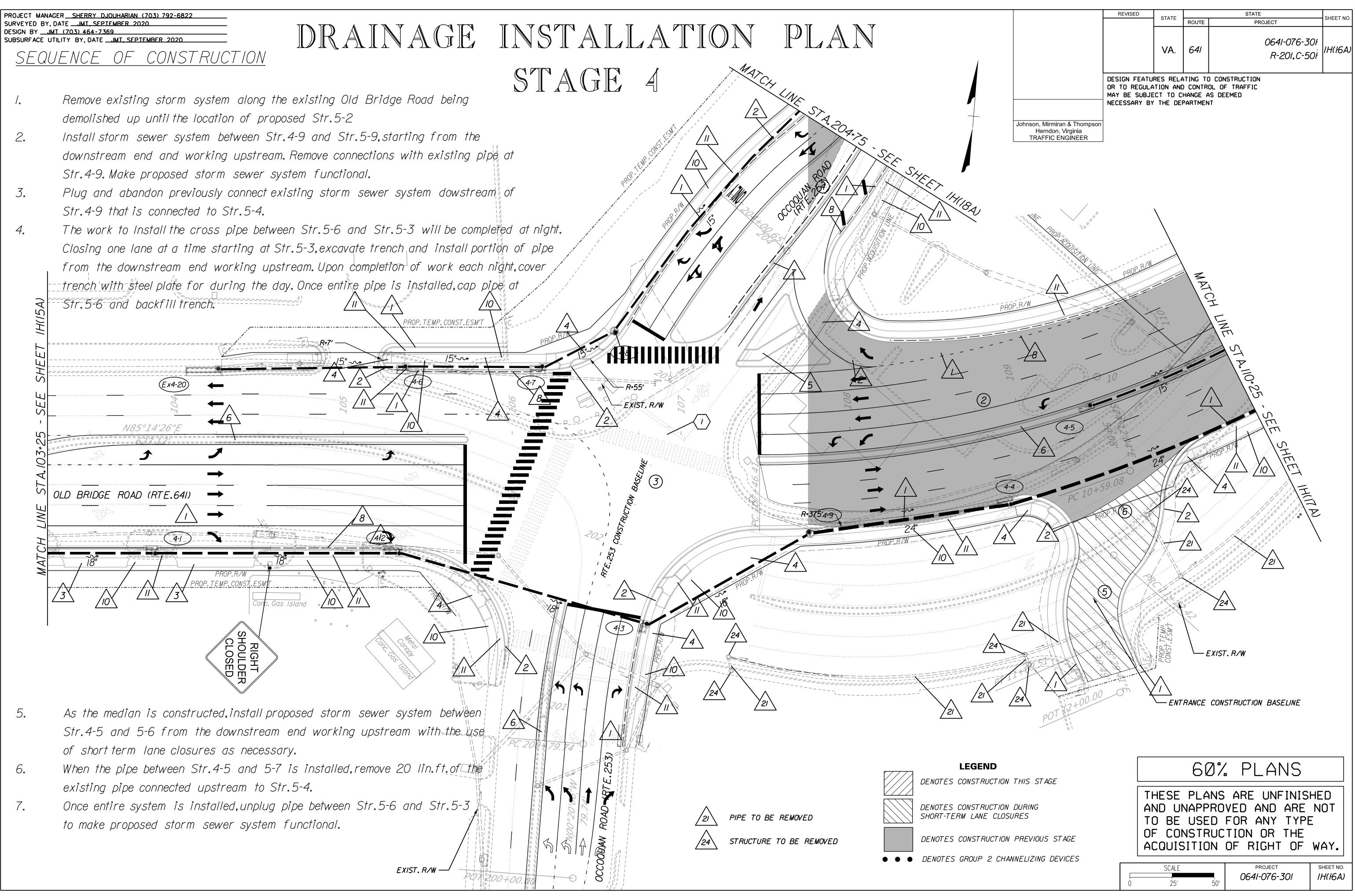


dl1555301h(15a).dgn Plotted By: jthompson

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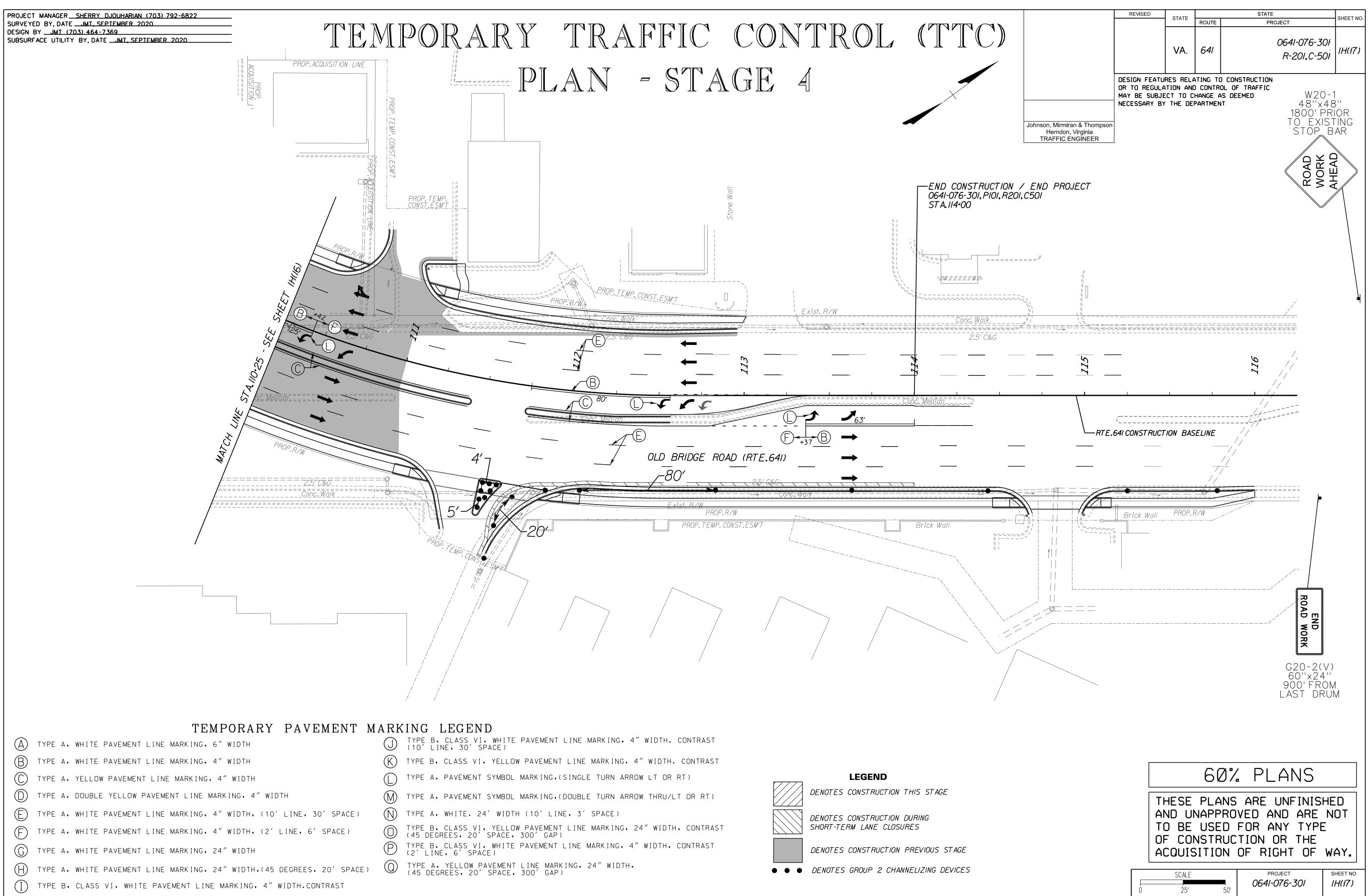


dll55530lh(l6).dgn Plotted By: jthompson

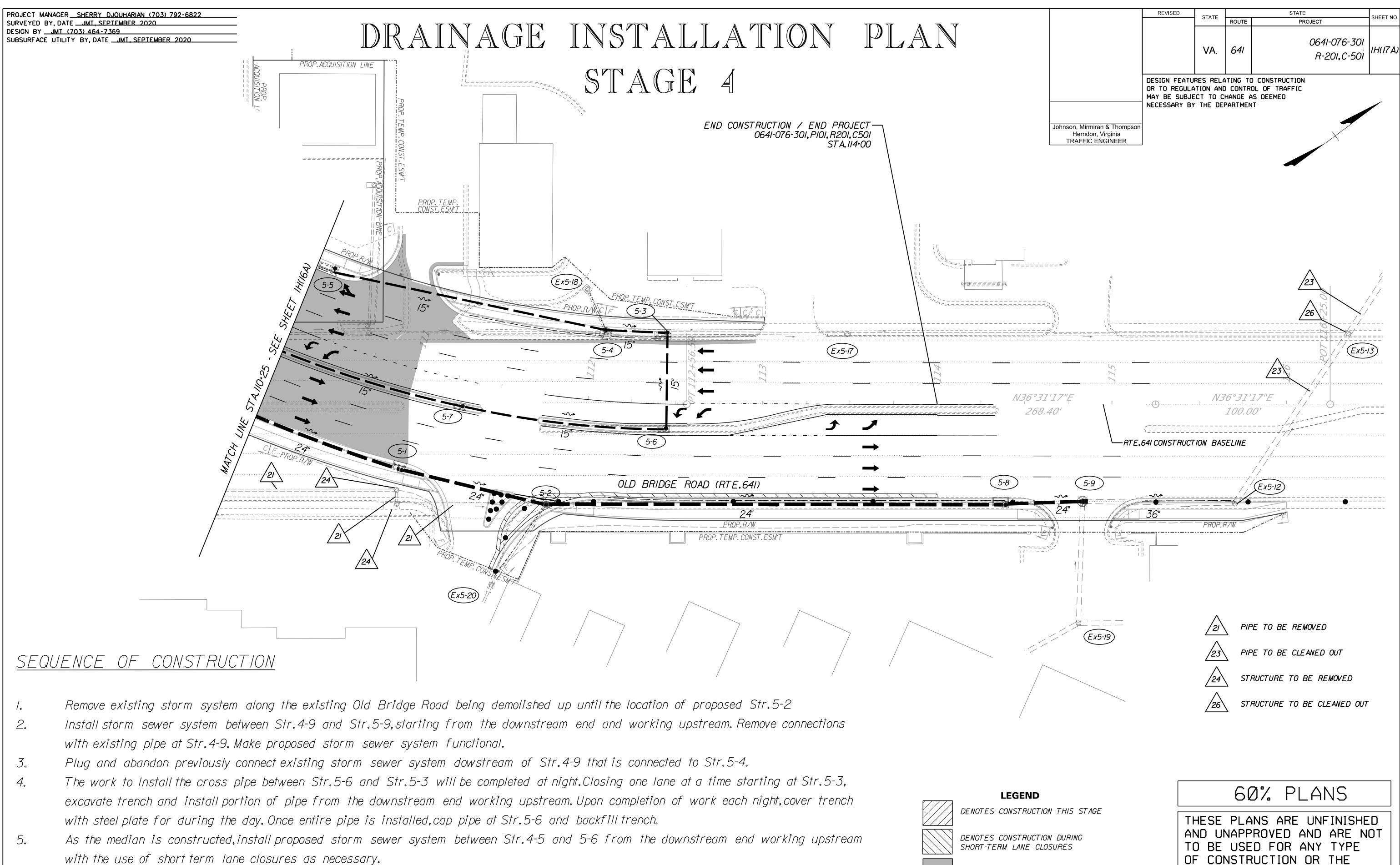


1115555301h(16a).dqi Plotted By: jthompson

11/12/2021 5:42:20 PM



dll55530lh(17).dgn Plotted By: jthompson



- with the use of short term lane closures as necessary. When the pipe between Str.4-5 and 5-7 is installed, remove 20 lin.ft.of the existing pipe connected upstream to Str.5-4. 6.
- Once entire system is installed, unplug pipe between Str.5-6 and Str.5-3 to make proposed storm sewer system functional. 7.



● ● ● DENOTES GROUP 2 CHANNE

dl155530lh(17a),dan Plotted By: jthompson

DENOTES CONSTRUCTION PREVIOUS STAGE

IELIZING DEVICES					
LEIZINO DEVICES		SCALE		PROJECT	SHEET NO.
				0641-076-301	IH(I7A)
	Ó	25'	50'		
	-				

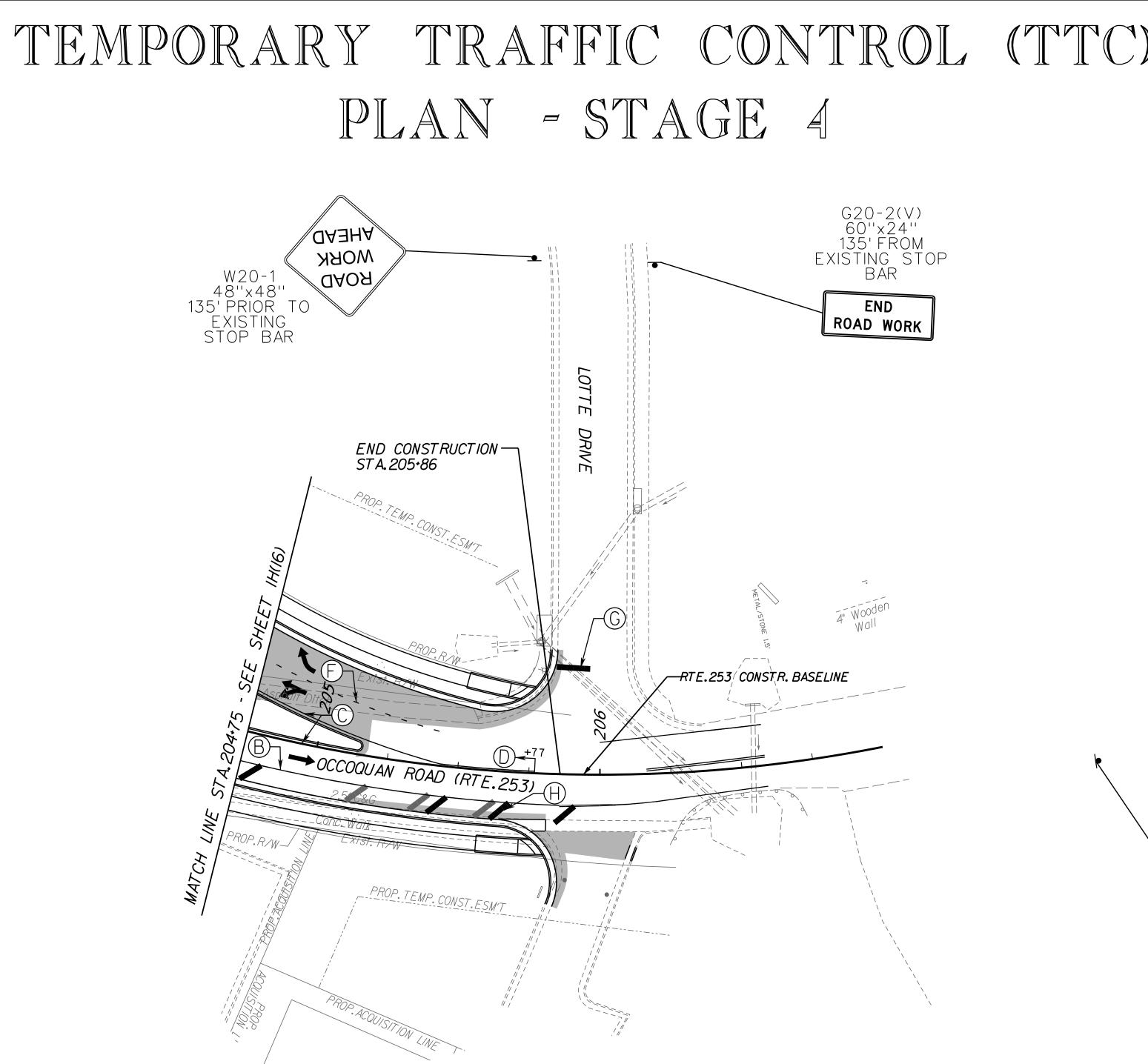
ACQUISITION OF RIGHT OF WAY.

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_ DESIGN BY \_\_\_\_\_\_\_ JMT (703) 464-7369 

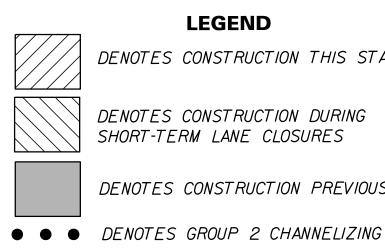
TEMPORARY PAVEMENT MARKING LEGEND (A) TYPE A, WHITE PAVEMENT LINE MARKING, 6" WIDTH B TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH C TYPE A, YELLOW PAVEMENT LINE MARKING, 4" WIDTH D TYPE A, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH E TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE) F TYPE A, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)  $\mathbb{P}$ G TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH (H) TYPE A, WHITE PAVEMENT LINE MARKING, 24" WIDTH, (45 DEGREES, 20' SPACE)

(I) TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH.CONTRAST



U TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST (10' LINE, 30' SPACE) (K) TYPE B, CLASS VI, YELLOW PAVEMENT LINE MARKING, 4" WIDTH. CONTRAST TYPE A, PAVEMENT SYMBOL MARKING, (SINGLE TURN ARROW LT OR RT) (M) TYPE A, PAVEMENT SYMBOL MARKING, (DOUBLE TURN ARROW THRU/LT OR RT) (N) TYPE A, WHITE. 24' WIDTH (10' LINE, 3' SPACE) (45 DEGREES, 20' SPACE, 300' GAP) TYPE B, CLASS VI, YELLOW PAVEMENT LINE MARKING, 24" WIDTH, CONTRAST TYPE B, CLASS VI, WHITE PAVEMENT LINE MARKING, 4" WIDTH, CONTRAST (2' LINE, 6' SPACE)

TYPE A, YELLOW PAVEMENT LINE MARKING, 24" WIDTH,
 (45 DEGREES, 20' SPACE, 300' GAP)



### dl155530lh(18),dgn Plotted By: jthompson

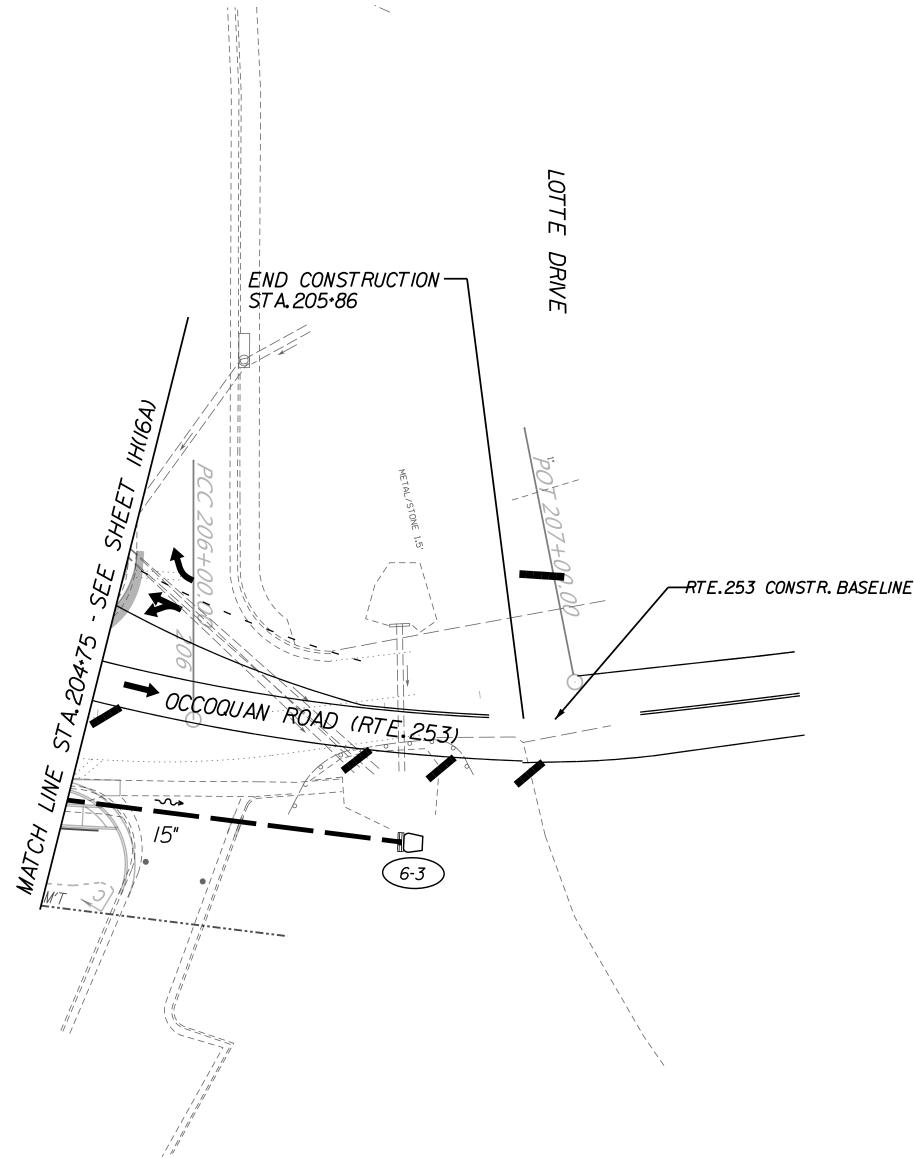
			Plot	ted By: jth	ompson			
		REVISED	STATE	ROUTE		STATE	DJECT	SHEET NC
)			VA.	641			0641-076-30 R-201,C-50	
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STAGE				UIII			GHT OF	WAY.
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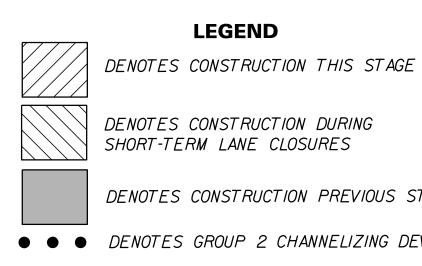
PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020

# DRAINAGE INSTALLATION PLAN STAGE 4

# SEQUENCE OF CONSTRUCTION

- Remove existing storm system along the existing Old Bridge Road being /. demolished up until the location of proposed Str.5-2
- Install storm sewer system between Str.4-9 and Str.5-9, starting from the 2. downstream end and working upstream. Remove connections with existing pipe at Str. 4-9. Make proposed storm sewer system functional.
- Plug and abandon previously connect existing storm sewer system dowstream of 3. Str.4-9 that is connected to Str.5-4.
- The work to Install the cross pipe between Str.5-6 and Str.5-3 will be completed at night. 4. Closing one lane at a time starting at Str.5-3, excavate trench and install portion of pipe from the downstream end working upstream. Upon completion of work each night, cover trench with steel plate for during the day. Once entire pipe is installed, cap pipe at Str. 5-6 and backfill trench.
- As the median is constructed, install proposed storm sewer system between Str. 4-5 and 5-6 5. from the downstream end working upstream with the use of short term lane closures as necessary.
- When the pipe between Str.4-5 and 5-7 is installed, remove 20 lin.ft.of the existing pipe 6. connected upstream to Str.5-4.
- Once entire system is installed, unplug pipe between Str.5-6 and Str.5-3 to make proposed 7. storm sewer system functional.





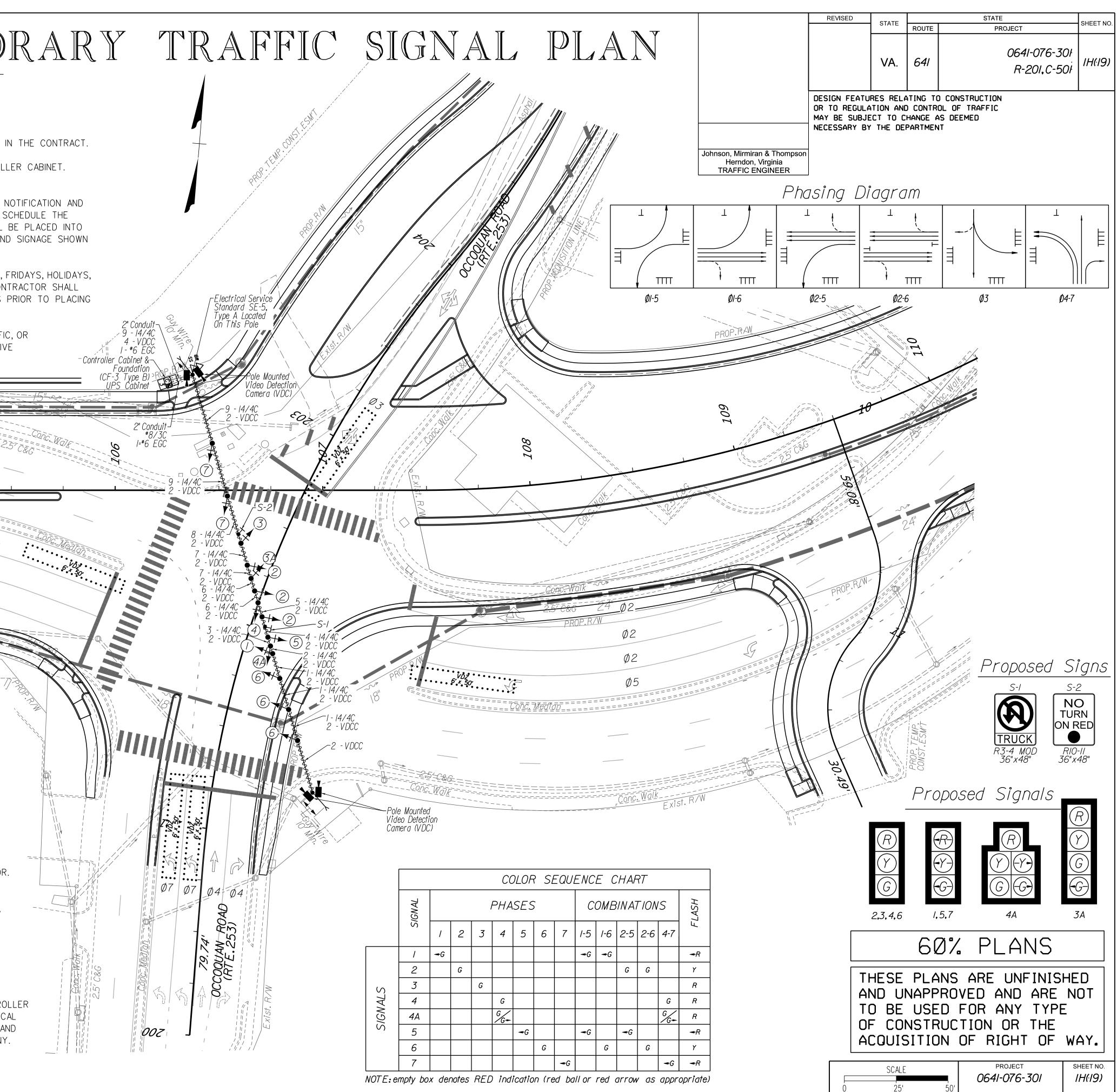
## d11555301b(18a).dor

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11/12/2021 5:43:30 PM

	MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> BY, DATE <u>JMT, SEPTEMBER 2020</u>	
	/	E TEMPOI
GENERAL		
1.	ALL SIGNING AND PAVEMENT MARKING WORK SH - 2009 MANUAL ON UNIFORM TRAFFIC CONTROL - 2011 VIRGINIA SUPPLEMENT TO THE 2009 MAN - 2016 VDOT ROAD AND BRIDGE STANDARDS, AS - 2020 VDOT ROAD AND BRIDGE SPECIFICATION	UAL ON UNIFORM TRAFFIC CONTROL DEVICES (REVISION 1), REVISED,
2.	PRIOR TO CONSTRUCTION THE VDOT ENGINEER THE CONTRACTOR IS RESPONSIBLE FOR COORDI	SHALL VERIFY THE LOCATIONS OF THE POLE(S) AND CONTROLLE NATING THIS VERIFICATION.
3.	APPROVAL FROM A VDOT DISTRICT ENGINEER. A DISTRICT FIELD PERSONNEL PROVIDING A MINIMU OPERATION UNTIL THE LOCATION IS 100% COMPL	D FLASHING OR FULL COLOR OPERATION WITHOUT THE PRIOR NO RRANGEMENTS SHALL BE MADE BY THE PERMIT MANAGER TO SCH M OF 48 HOURS ADVANCE NOTICE. NO TRAFFIC SIGNAL SHALL BE LETE THIS INCLUDES ANY NECESSARY PAVEMENT MARKINGS AND AL TRAFFIC SIGNAL COMMUNICATION REQUIREMENTS.
4.	OR DAYS PRECEDING OR FOLLOWING HOLIDAYS,	NOT BE PLACED INTO FULL COLOR OPERATION ON MONDAYS, FR UNLESS DIRECTED BY THE VDOT DISTRICT ENGINEER. THE CONTR TIFY THE VDOT DISTRICT ENGINEER A MINIMUM OF 48 HOURS PR
5.		CONTROLLER TIMINGS TO PROVIDE ORDERLY FLOW OF TRAFFIC, THE CONTRACTOR SHALL HAVE HIS QUALIFIED REPRESENTATIVE SECUTIVE MORNINGS Exist. BAW
6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ELECTRICAL SERVICE TO THE CONTROLLER AT ALL TIMES.	2.5' C&G
7.	ALL UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA	RTE.64I CONSTRUCTION BASELINE
	"UNDERGROUND UTILITY DAMAGE PREVENTION ACT" AND THE STATE CORPORATION COMMISION'S "RULES FOR ENFORCEMENT OF THE ACT." IF THE CONTRACTOR IS AWARE OF ANY UTILITIES WITHIN THE PROJECT LIMITS THAT ARE NOT IDENTIFIED BY THE NOTIFICATION CENTER, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNER(S) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL NOTIFY VDOT AT 800-367-7623 TO DETERMINE THE EXTENT AND LOCATION OF VDOT OWNED EQUIPMENT. IF THE CONTRACTOR	Ø1 OLD BRIDGE ROAD (RTE.641) Ø6 06 06 06 06 06 06 06 06 06 0
	PERCEIVES A CONFLICT BETWEEN UTILITIES AND THE PROPOSED WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE REVIEWED.	PROP.R/W ^
8.		ITIES WHEN INSTALLING ANY COMPONENT OF THE PROPOSED .
9.		NEW LED TRAFFIC SIGNAL HEADS AND OVERHEAD TRAFFIC JRABLE NON-TRANSPARENT COVER UPON INSTALLATION. THE HE TRAFFIC SIGNAL SYSTEM IS OPERATIONAL.
10.	MAINTENANCE AND REPAIR OF THE TRAFFIC SIGI CONSTRUCTION IS THE SOLE RESPONSIBILITY OF	NAL AND ANY NECESSARY FUTURE MODIFICATIONS DURING F THE CONTRACTOR.
11.		UM. ALL SIGNAL HEADS SHALL HAVE A HIGH VISIBILITY SIGNAL _L BE STAINLESS STEEL. ALL TRAFFIC SIGNAL HEAD SECTIONS
12.	THE SIGNAL CONTRACTOR SHALL COORDINATE P	AVEMENT MARKING WITH THE PAVEMENT MARKING CONTRACTOR.
13.	TRAFFIC SIGNAL RELATED JUNCTION BOXES CON THE JUNCTION BOX USED FOR THE TELECOMMU	ER ''TRAF'' CASE IN THE TOP SURFACE DEPRESSION FOR ALL NTAINING CABLE CARRYING LESS THAN 50 VOLTS. IN ADDITION, NICATIONS PROVIDER COMMUNICATION CIRCUIT SHALL HAVE L OTHER JUNCTION BOX COVERS SHALL HAVE ''ELEC'' CAST
14.	CONTRACTOR SHALL VERIFY THE LOCATION OF NECESSARY AND APPROVED BY THE DISTRICT E	THE EXISTING CONDUITS AND MAKE FIELD ADJUSTMENTS AS ENGINEER.
15.		VIDING AND MAINTAINING ELECTRICAL SERVICE TO THE CONTROL

15. THE PROJECT SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ELECTRICAL SERVICE TO THE CONTROLLI AT ALL TIMES. THE PROJECT SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL. THE PROJECT SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND THE INSTALLATION OF THE ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL WITH THE LOCAL UTILITY COMPANY. ELECTRICAL SERVICE SHALL BE METERED.



dll55530lh(l9).dgn Plotted By: jthompson

PROJECT MANAGER <u>SHERRY D</u> SURVEYED BY, DATE <u>JMT, SEP</u>	TEMBER 2020	
DESIGN BY <u>JMT (703) 464-73</u> SUBSURFACE UTILITY BY, DATE		
	GRADING	
G-1	The grade line denotes top of on typical sections or plans.	finished pavement unless shown otherwise
G-6	The borrow material for this pr as approved by the Materials (	roject shallbe a minimum CBR 5 or Engineer.
G-7		on which is suitable for stabilization with placed in the top portion of the subgrade.
	PAVEMENT	
P-1	prior to acceptance of the pro shall restore the pavement to jack method or by replacing the	ncrete pavement adjacent to bridges oject by the Department, the contractor the originalgrade either by the mud he pavement. In the event the pavement 't shallbe replaced, if directed by the
P-2	The weight will vary in accordar aggregates and the asphaltic of the design depth. The weight of of the theoretical maximum de	s project will be paid for on a tonnage basis. nce with the specific gravity of the content of the mix actually used to secure of the asphalt concrete is based on 95% ensity.
	INCIDENTALS	
I-4	of the edge of pavement, with easement, unless otherwise no	ear Zone or within a minimum of 30 feet in the limits of the right of way or construction oted on plans or directed by the Engineer, for a Section 301 of the applicable VDOT <u>s.</u>
I-5	minimum of 10 feet from the the limits of the construction grubbed in accordance with th	by lying within the Clear Zone or within a edge of pavement or surfacing or within slopes beyond 10 feet, shall be cleared and he applicable VDOT <u>Road and Bridge Specifications</u> , right of way or construction easement is provided.
I-6	Certain trees shallbe preserve the Engineer.	ed as noted on plans or as directed by
I-7		fs would damage trees, bushes or other de- be omitted when so ordered by the Engineer.
1-9		s shown for a proposed entrance, the entrance ne location as the existing entrance.
I-12	St'd. RM-2 right of way monur	ments shallbe set by the Contractor.
I-16	The "underground utilities" sur by consultant and copies are (	rvey data on this project has been provided available from the Department.
I-17	For method of constructing St curb and gutter sections, see	traight-Line Taper Lanes in curb and/or typical details on Sheet 2A(6).
I-18	struction plans are schematic of pavement markings shall be VDOT Road and Bridge Specifi	ffic flow arrows shown on the roadway con- only. The actual location and application in accordance with Section 704 of the applicable ications, MUTCD, sequence of construction/ t marking plan sheets 33(3) thru 33(14) and as
I-20	The Official Electronic PDF Ver copies or prints of specific lay	rsion of the plans willoverride the paper vers.
	in the preparation of the bid o	have been CADD generated. To assist and construction of the project, Microstation available to the prime contractor during ontract.
I-21		vill include the construction plans in two formats: mat (.dgn) files. Only the PDF files will be cial plan assembly.
	contractor. These plans are d (See the VDOT CADD Manual for items may or may not be in the VDOT CADD Manual. The Micro	files are furnished only as information for the leveloped in layers (levels) to aid in readability. or CADD Level Structure). However, the construction he proper layering scheme as described in the ostation files will only match the scanned files if all A Microstation Software license is required to be

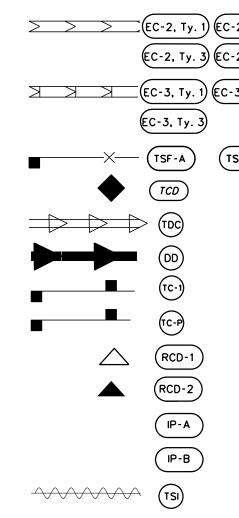
# GENERAL NOTES

### 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-7 All pipe on this project shall be <u>reinforced concrete</u>. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height cover, see the applicable sections of the VDOT <u>Road and Bridge Standards</u> PC-1.
- 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-11 The proposed granular filter blanket for the proposed riprap may be omitted by the Engineer if the slope on which it is to be placed is found to be comprised of material which is coarser than that specified for the proposed granular filter blanket.
- D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT <u>Road and</u> 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 <u>Road and Bridge Standards</u> 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 <u>Road and Bridge Standards</u>.
- 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.
- D-17 St'd. SL-1 Safety Slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

### EROSION AND SE

- E-1 If the removal of Brush Silt E by the Engineer, the cost of with Section 109 of the appl
- E-2 Rock for Check Dams, Inlet and Riprap shall be in accord of the applicable VDOT <u>Road</u>
- E-3 The following symbols are u plan assembly:

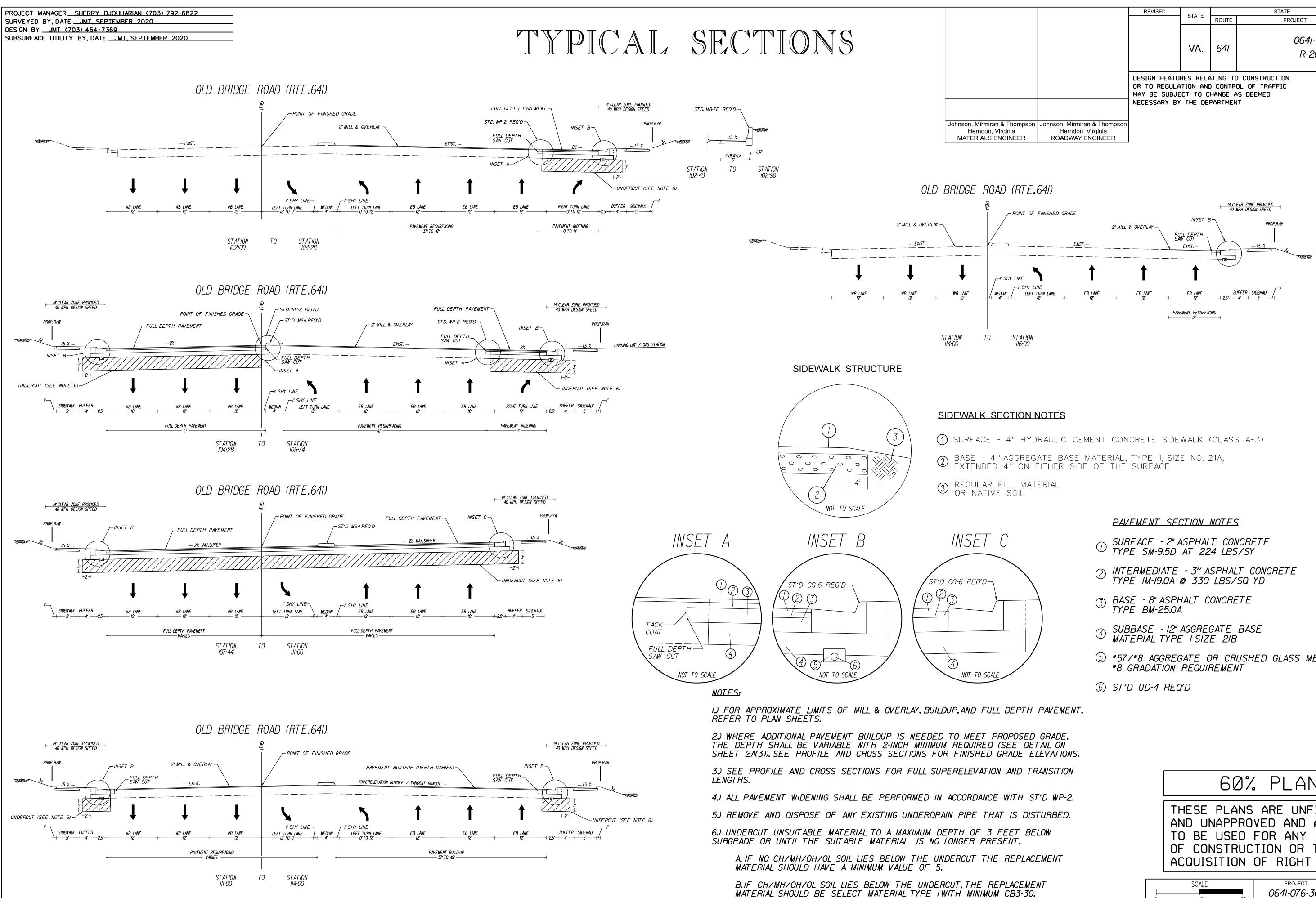


E-4 Permanent vegetation shall be esta with non-erodible materials. See the vegetation establishment.

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		REVISED	STATE	ROUTE	STATE SHE		SHEET NO.		
			VA.	641			064I-076-3 R-20I,C-5	. 2	
	DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT								
Barrier i f remov	DIMENT CONTROL (ESC) Barrier is specified by the plans or required removal and disposal of brush shall be in accordance icable VDOT <u>Road and Bridge Specifications</u> .								
Protection, Erosion Control Stone dance with Section 203 and Section 414 <u>d and Bridge Specifications</u> . sed to depict Erosion Control items in the									
2, Ty. 2) 2, Ty. 4)	Denotes Rolled Erosior	n ControlPro	oduct, Te	empora	ry, St	'd. EC-2	Туре 1, 2, 3	3 or 4	
3, Ty. 2	Denotes Rolled Erosior	n Control Pro	oduct, Pe	ermane	nt, St	'd. EC-3	Туре 1,2 с	or 3	
	Denotes Temporary Silt Fence, St'd EC-5 Type A or B Denotes Temporary Check Dam, St'd EC-16 Denotes Temporary Diversion Channel, St'd EC-12 Denotes Temporary Diversion Dike, St'd EC-9 Denotes Turbidity Curtain, Type - Impervious Denotes Turbidity Curtain, Type - Pervious Denotes Rock Check Dam, Type I: St'd EC-4 Denotes Rock Check Dam, Type II: St'd EC-4 Denotes Inlet Protection, Type A: St'd EC-6 Denotes Inlet Protection, Type B: St'd EC-6 Denotes Slope Interrupter: St'd EC-15 Denotes Limits of Disturbance								
				66	)%	PL	ANS		
		A T O	O BE F COI	USE	ROV D F	ED A OR A ION I	UNFINIS ND ARE NY TYPE OR THE GHT OF	NOT	
			N/A				ојест 076-301	SHEET NO. 2	

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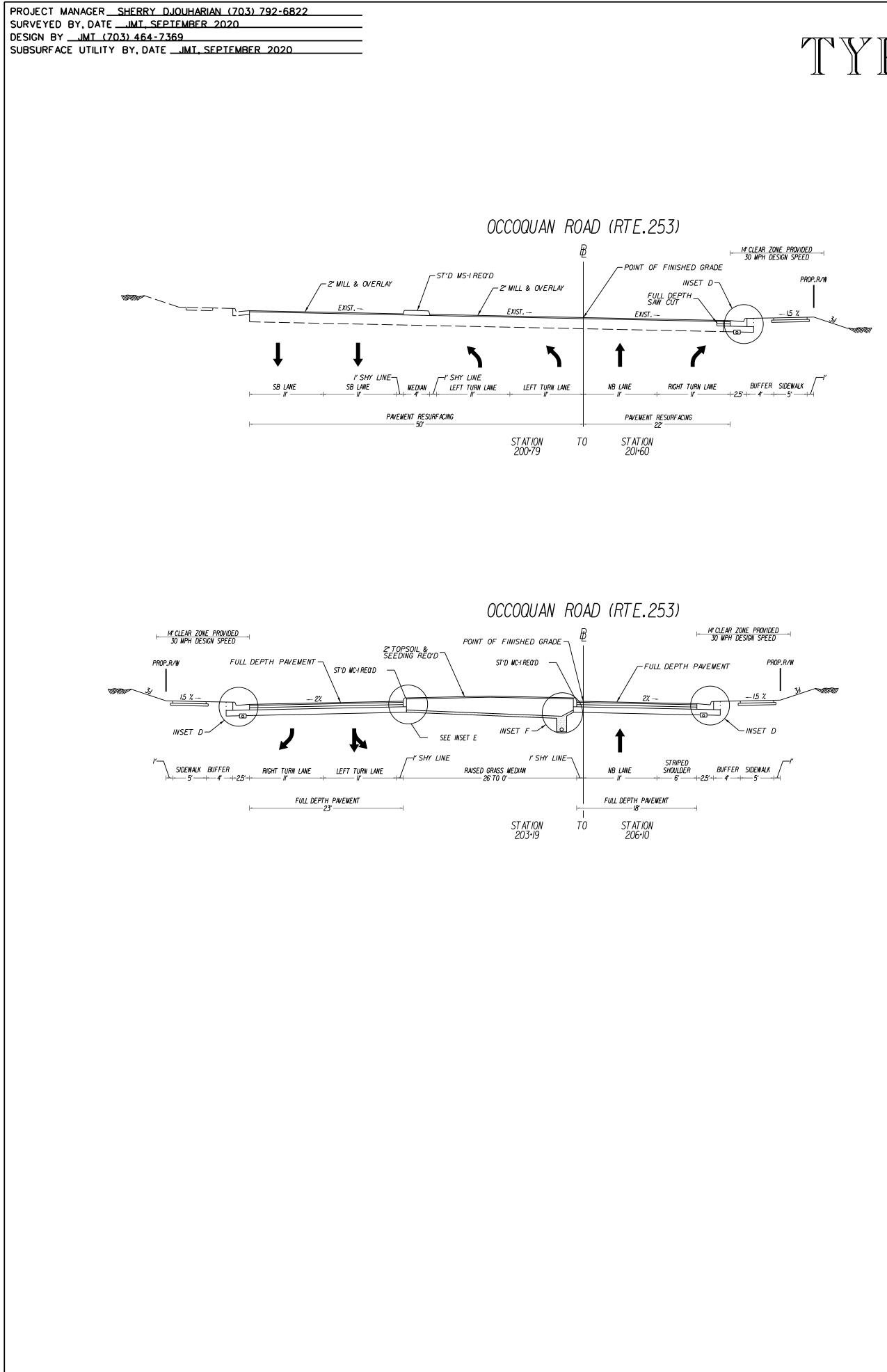
		REVISED	STATE		STATE			
			STATE	ROUTE	PROJECT	SHEET NO.		
			VA.	641	0641-076-301 R-201,C-501	2A(I)		
		DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT						
ran & Thompson a, Virginia S ENGINEER	Johnson, Mirmiran & Thompson Herndon, Virginia ROADWAY ENGINEER							

- 5 #57/#8 AGGREGATE OR CRUSHED GLASS MEETING

PROPOSED GRADE, (SEE DETAIL ON GRADE ELEVATIONS.
ON AND TRANSITION
E WITH ST'D WP-2.
AT IS DISTURBED.
FEET BELOW ESENT.
E REPLACEMENT

	60% PLANS	
H ST'D WP-2.		ב ר
DISTURBED.	AND UNAPPROVED AND ARE NOT	
E BELOW	TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE	
PLACEMENT	ACQUISITION OF RIGHT OF WAY.	
EMENT 3-30.	SCALE         PROJECT         SHEET NO           0         10'         20'         0641-076-301         2A(1)	-

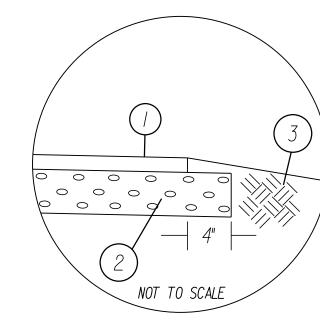
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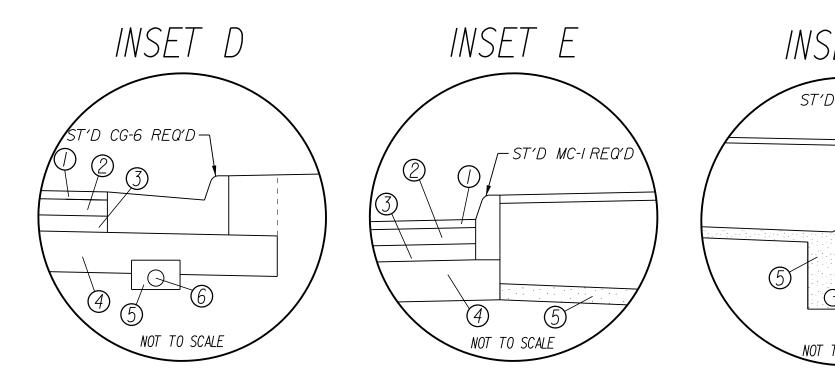
# TYPICAL SECTIONS



### SIDEWALK STRUCTURE



## SIDEWALK SECTION NOTES



### NOTES:

I. FOR APPROXIMATE LIMITS OF MILL & OVERLAY, BUILDUP, AND FULL DEPTH P. REFER TO PLAN SHEETS.

2.) WHERE ADDITIONAL PAVEMENT BUILDUP IS NEEDED TO MEET PROPOSED G THE DEPTH SHALL BE VARIABLE WITH 2-INCH MINIMUM REQUIRED (SEE DETA SHEET 2A(3)). SEE PROFILE AND CROSS SECTIONS FOR FINISHED GRADE ELE

3.) SEE PROFILE AND CROSS SECTIONS FOR FULL SUPERELEVATION AND TRAI LENGTHS.

4.) ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH ST'L

5.) REMOVE AND DISPOSE OF ANY EXISTING UNDERDRAIN PIPE THAT IS DISTU

### dll555302a(2).dgn Plotted By: jthompson

		REVISED	STATE		SHEET NO.		
			STATE	ROUTE	PROJECT	SHEET NO.	
			VA.	641	0641-076-301 R-201,C-501	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					
ran & Thompson n, Virginia S ENGINEER	Johnson, Mirmiran & Thompson Herndon, Virginia ROADWAY ENGINEER						

(1) SURFACE - 4" HYDRAULIC CEMENT CONCRETE SIDEWALK (CLASS A-3)

② BASE - 4" AGGREGATE BASE MATERIAL, TYPE 1, SIZE NO. 21A, EXTENDED 4" ON EITHER SIDE OF THE SURFACE

③ REGULAR FILL MATERIAL OR NATIVE SOIL

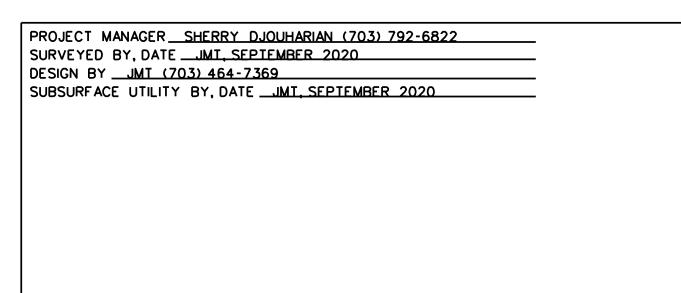
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0 MC-1-
TO SCALE

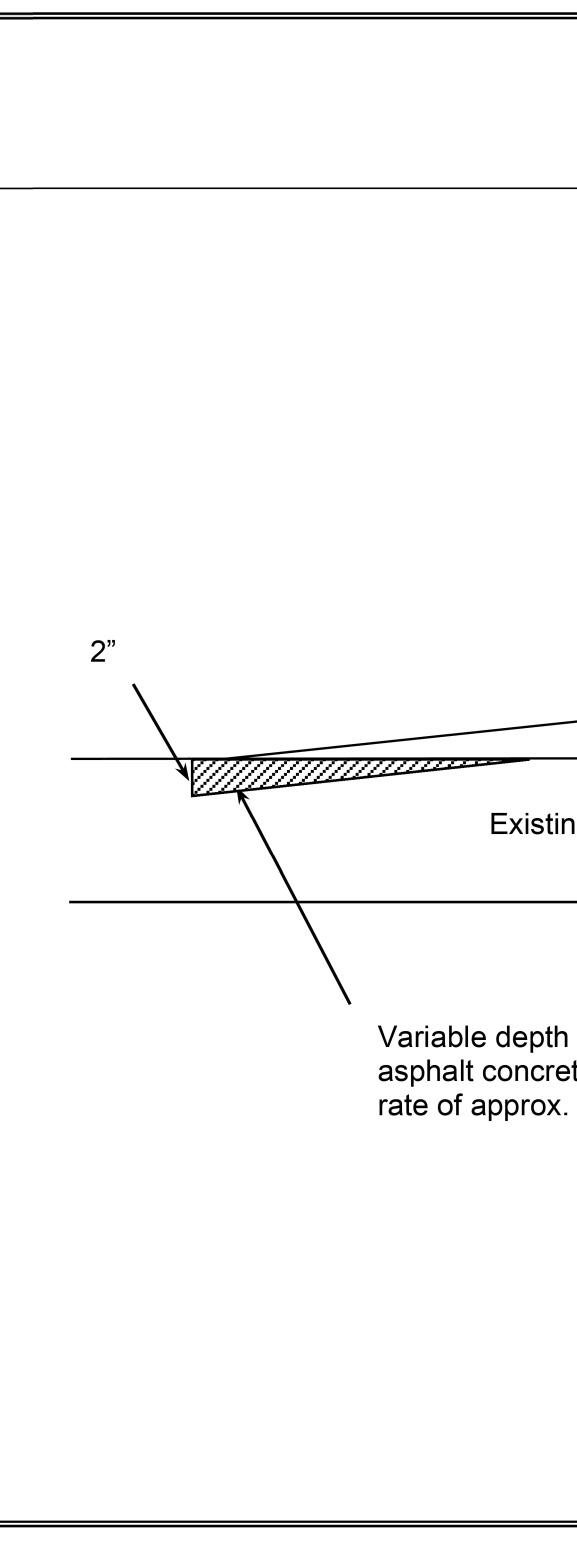
PAVEMENT SECTION NOTES

- SURFACE 2" ASPHALT CONCRETE TYPE SM-9.5D AT 224 LBS/SY  $\bigcirc$
- INTERMEDIATE 4" ASPHALT CONCRETE 2 TYPE IM-19.0A @ 440 LBS/SQ YD
- BASE 4" ASPHALT CONCRETE TYPE BM-25.0A
- SUBBASE IO" AGGREGATE BASE MATERIAL TYPE I SIZE 2IB
- (5) \*57/\*8 AGGREGATE OR CRUSHED GLASS MEETING \*8 GRADATION REQUIREMENT
- 6 ST'D UD-4 REQ'D
- (7) ST'D UD-2 REQ'D

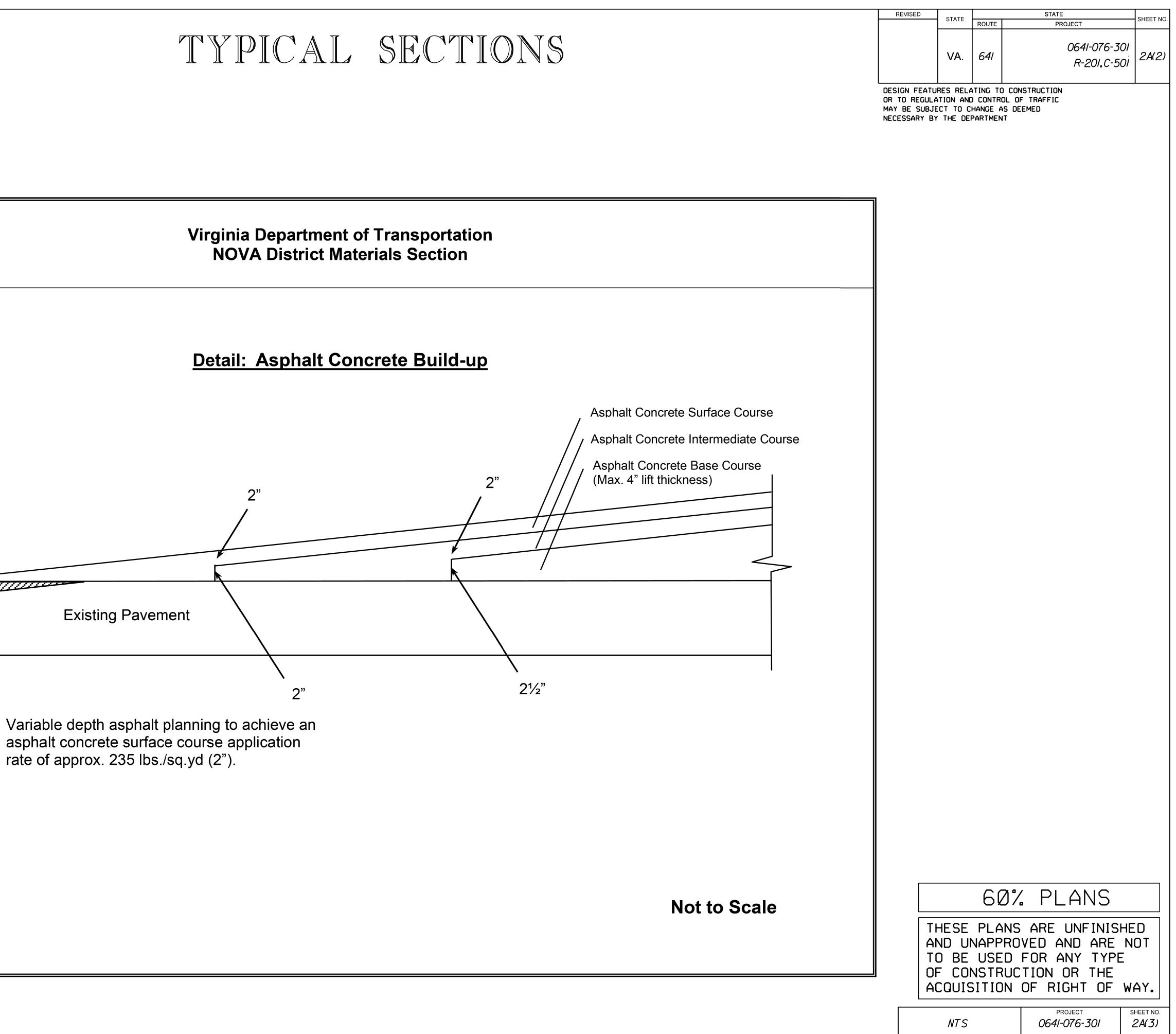
PAVEMENT.			
GRADE.	607	. PLANS	
AVL ON EVATIONS.		ARE UNFINIS	
NSITION		VED AND ARE FOR ANY TYPE	
D WP-2.			
URBED.	ACOUISITION	OF RIGHT OF	WHT.
	SCALE 0 10' 20'	project 0641-076-301	SHEET NO. <b>2A(2)</b>

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# **NOVA District Materials Section**



asphalt concrete surface course application

### dll555302a(3),dgn Plotted By: jthompson

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 Sheet 3 4-9 ) 4.9 LF STD.MH-I or 2 REQ'D. 3-3 I St'd.MH-I Frame & Cover Req'd. INV.115**.**48 St'd.IS-I Reg'd. Tie to existing 15" pipe. 4-9 - 4-4 20'-18" STORM SEWER PIPE REQ'D.(4' COVER) 3-2 Silt Tight Joint Type 4-4 I STD.DI-3B REQ'D. 3-2 L=10',H= 5.1',1NV.114.59 5-/ St'd.IS-I Reg'd. Connect UD-4 to DI ) 67'-18" STORM SEWER PIPE REQ'D.(4' COVER) 4-1 Silt Tight Joint Type INV.(IN) II4.59 INV.(OUT) IIO.89 (Ex. 4-2 I STD.DI-2A REQ'D. 3-1 L=2.5′, H= 6.3′, INV. 116.35 (Ex.4-2 40'-15" STORM SEWER PIPE REQ'D.(3' COVER) 3-2 Silt Tight Joint Type 4-6 SHEET 4 I STD.DI-3B REQ'D. 4-/ 4-6 L=6',H= 5.7',INV.110.79 Connect UD-4 to DI 145'-18" STORM SEWER PIPE REQ'D.(4' COVER) 4-7 4-2 Silt Tight Joint Type INV.(IN) IIO.79 INV.(OUT) IO4.29 I STD.DI-3B REQ'D. 4-2 L=10',H= 4.9',1NV.104.19 4-8 St'd.IS-I Reg'd. Connect UD-4 to DI 4-8 152'-18" STORM SEWER PIPE REQ'D.(6' COVER) *4-2* 4-3 Silt Tight Joint Type INV.(IN) 104.19 INV.(OUT) 97.01 ISTD.DI-3B REQ'D. 4-3 L=6',H= 6.5',INV.96.91 6-/ 4-8 St'd.IS-I Req'd. Connect UD-4 to DI ) III'-18" STORM SEWER PIPE REQ'D.(9' COVER) 4-9 4-3 Silt Tight Joint Type INV.(IN) 96.91 INV.(OUT) 91.36

DRAINAGE DESCRIPTIONS

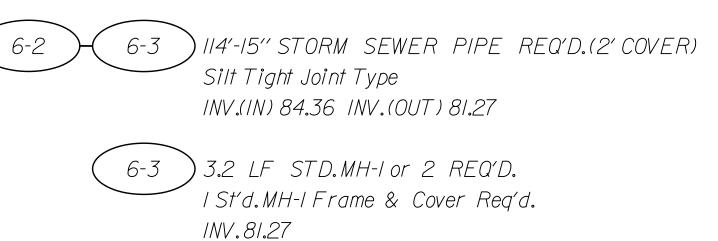
99.6 LF STD.MH-I or 2 REQ'D. I St'd.MH-I Frame & Cover Req'd. INV.91.26	(4-5)   STD.DI-3B REQ'D. L=8',H= 4.3',INV.91.23
St'd.IS-I Req'd.	4-5 5-7 194'-15" STORM SEWER PI (614' Radius with open joini
4) I20'-24" STORM SEWER PIPE REQ'D.(9' COVER) Silt Tight Joint Type INV.(IN) 9I.26 INV.(OUT) 88.05	Joints are to be opened a r tongue length. INV.(IN) 91.23 INV.(OUT) 86.0
4) I STD. DI-3B REQ'D.	SHEET 5
L=8',H= 10.9',INV.86.99	
D 244'-24" STORM SEWER PIPE REQ'D.(9' COVER) (654' Radius with open joints - using 8' pipe joint lenghts)	(5-1) I STD.DI-3B REQ'D. L=6',H= 10.8',INV.81.31
Joints are to be opened a maximum of 25% of the spigot or tongue length. INV.(IN) 86.99 INV.(OUT) 81.41	5-1 - 5-2 85'-24" STORM SEWER P Silt Tight Joint Type INV.(IN) 8I.3I INV.(OUT) 79.03
-20 Ex.STD.DI-3B	5-2 10.3 LF STD.MH-1 or 2 RE
L=20',H= 5.4',INV.II0.97 Connect Proposed 15" Storm Sewer Pipe Ex.4-20 to 4-6.	I St'd.MH-I Frame & Cover I INV.78.93
4-20 4-6 III'-15" STORM SEWER PIPE REQ'D.(3' COVER)	St'd.IS-I Req'd.
Silt Tight Joint Type INV.(IN) IIO.97 INV.(OUT) IO5.38	5-2 5-8 263'-24" STORM SEWER I Silt Tight Joint Type
6) I STD.DI-3B_REQ'D. L=6',H= 4.6',INV.I05.28	INV.(IN) 78.93 INV.(OUT) 71.8 Connect to existing 15" Conc.
7 81'-15" STORM SEWER PIPE REQ'D.(3' COVER) Silt Tight Joint Type	5-8   STD.DI-38 REQ'D. L=8',H= 10.86,INV.71.78
INV.(IN) 105.28 INV.(OUT) 101.57	5-8 5-9 44'-24" STORM SEWER PI
7) I STD.DI-3B REQ'D.	Silt Tight Joint Type
L=8', H= 4.6', INV.101.47	
St'd.IS-I Req'd. Connect UD-4 to DI	5-9 9.5 LF STD.MH-Lor 2 REC I St'd.MH-LFrame & Cover 1
8 47'-15" STORM SEWER PIPE REQ'D.(3' COVER) Silt Tight Joint Type	INV.70.45 St′d.IS-I Req′d.
INV.(IN) 101.47 INV.(OUT) 97.32	5-9 (Ex.5-12) 87'-36" STORM SEWER PI
8 4.1 LF STD. MH-1 or 2 REQ'D.	Silt Tight Joint Type
I St'd.MH-I Frame & Cover Req'd.	INV.(IN) 70.45 INV.(OUT) 69.
INV.97.22 St'd.IS-I Req'd.	(Ex.5-12) Existing Manhole to be mod accept 36" Storm Sewer Pip
211'-15" STORM SEWER PIPE REQ'D.(3' COVER) (300' Radius with open joints - using 8' pipe joint lenghts) Joints are to be opened a maximum of 25% of the spigot or tongue length. INV.(IN) 97.22 INV.(OUT) 86.05	5-7   STD.DI-3B REQ'D. L=6',H= 5.6,INV.86.54

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		ATION AND	) CONTROL HANGE AS			
Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER						
3						
VER PIPE REQ'D.(3'COVER) en joints - using 8' pipe joint h ned a maximum of 25% of the	-					
UT) 86.64						
/						
VER PIPE REQ'D.(5' COVER)						
T)79 <b>.</b> 03						
r 2 REQ'D. Cover Req'd.						
EWER PIPE REQ'D.(5' COVER)						
OUT)71.88 5"Conc.Pipe from Ex5-20						
78						
VER PIPE REQ'D.(5' COVER)						
IT) 70 <b>.</b> 55						
2 REQ'D. Cover Req'd.						
VER PIPE REQ'D.(5' COVER)						
UT) 69 <b>.</b> 77						
be modified to			60	۶% PL	ANS	
wer Pipe.					UNFINISH ND ARE	
4	ד כ	O BE	USE[ NSTRI	D FOR A JCTION (	NY TYPE	
		N/A	1		ојест 076-301	SHEET NO. 2B(1)

PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020 DESIGN BY \_\_JMT (703) 464-7369 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020 117'-15" STORM SEWER PIPE REQ'D.(5' COVER) 5-7 5-6 INV.(IN) 86.54 INV.(OUT) 84.19 (614' Radius with open joints - using 8' pipe joint lenghts) Joints are to be opened a maximum of 25% of the spigot or tongue length. ISTD.DI-3B REQ'D. 5-6 L=6',H= 4.5,INV.84.09 St′d.IS-I Req′d. 55'-15" STORM SEWER PIPE REQ'D.(5' COVER) 5-3 5-6 Silt Tight Joint Type INV.(IN) 84.09 INV.(OUT) 82.99 ISTD.DI-3B REQ'D. 5-3 L=8',H= 6.1,1NV.82.01 St'd.IS-I Reg'd. Connect to existing 18" Conc. Pipe Connect UD-4 to DI ISTD.DI-3B REQ'D. 5-5 L=10′,H= 4.0,1NV.87.95 Connect UD-4 to DI 5-5 5-4) 159'-15" STORM SEWER PIPE REQ'D.(4' COVER) Silt Tight Joint Type INV.(IN) 87.95 INV.(OUT) 83.36 ) 5.0 LF STD. I or 2 REQ'D. 5-4 I St'd.MH-I Frame & Cover Req'd. INV.83.36 St'd.IS-I Req'd. Tie to existing 15" Conc.Pipe from Ex.DI 5-18 ) 36'-15" STORM SEWER PIPE REQ'D.(4' COVER) 5-3 5-4 Silt Tight Joint Type INV.(IN) 83.36 INV.(OUT) 82.II SHEET 6 I STD.DI-3B REQ'D. 6-1 L=12′,H= 4.6′,INV.85.95 St'd.IS-I Reg'd. Connect UD-4 to DI 6-2 ) 55'-15" STORM SEWER PIPE REQ'D.(3' COVER) 6-1 Silt Tight Joint Type INV.(IN) 85.95 INV.(OUT) 84.46 ISTD.DI-3B REQ'D. 6-2 L=8',H= 6.4',INV.84.36 St'd.IS-I Reg'd. Connect UD-4 to DI

# DRAINAGE DESCRIPTIONS



6-3 6-4 28'-15" STORM SEWER PIPE REQ'D.(2' COVER) Silt Tight Joint Type INV.(IN) 81.27 INV.(OUT) 80.50 I STD.EW-I REQ'D. 4 Tons St'd.EC-I Class I Req'd.Type B Installation

### dll555302b(2).dgn Plotted By: jthompson

	REVISED	STATE		STATE	SHEET NO.		
		STATE	ROUTE	PROJECT	SHEET NO.		
		VA.	641	0641-076-301 R-201,C-501	2B(2)		
	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 Herndon, Virginia HYDRAULIC ENGINEER							

6Ø%	. PLANS							
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.								
N/A	project 0641-076-301	SHEET NO. 2 <b>B(2)</b>						

PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822
SURVEYED BY, DATE
DESIGN BY
SUBSURFACE UTILITY BY, DATEJMT. SEPTEMBER 2020

## STORMWATER POLLUTION PREVE

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 GeneralInformation 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.

Icertify under penalty of law that I have read and understand this document and that this document and all attachments we 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, accur 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 <u>General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when</u> 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 - Realign the intersection of Old Bridge Road and Occoquan Road and associated roadway and pedestrian facilities improvements to enhance traffic and pedestrian safety. This project is located in Prince William County.

2. This land disturbance (construction) activity site is located in Prince William County and approximately 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.

B. This proposed activity disturbs less than one acre and is exempt from coverage under the VPDES Ceneral Permit for Discharges of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ.

-C.This proposed activity is exempt from coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES ConstructionPermit) as issued by the DEQ because it is considered a routine maintenance activity (i.e., the proposed activity is intended to maintain the original line and grade, -hydraulic capacity or original construction of the project or involves the paving of an -existing roadway with a compacted or impervious surface and the reestablishment of -associated ditches and shoulders).

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ж	X 4. The location of on-s Construction Permit co provided by the contro appropriate contract de borrow and disposal ar and vehicle washing, me fuels or chemicals, con that may generate a s construction site.	verage for actor and id ocuments. S eas, constru- aintenance, s crete wash	this land o lentified or Support fa- uction and storage ar out areas	disturbance n the recor cilities shall waste mate nd fueling a , sanitary w	(construction) d set of plans include, but not erial storage are reas, storage a aste facilities c	activity shallbe or in other be limited to, eas, equipment reas for fertilizers, ind any other areas			DESIGN FEAT OR TO REGUI MAY BE SUB NECESSARY I	ATION AND	) control ( Hange as d	OF TRAFFIC			
Ж:	K 5. Written Evidence of support activities locate Construction General Per VSMP Authority stating	ed outside ermit coverc	of VDOT r age letter:	ight of way (List VPDES	or easement in	the form of the		nedule 1 or 2, if so ept for Section 1	chedule #2	is used,	void note	ruction) activity shall #14) as defined in 2016 rements Rain gauge no			
re	6. List the surface wa 305(b)/303(d) Water Qu suspended solids, turbid benthic impairments: No	uality Asses ity, Nitroger	sment Inte	grated Rep	ort for sedimen	t, total	measurable storm	n event for the p ne contractor and P documents for	ourposes of d identified	ESC and on the r	l Pollution ecord set	termine the occurrence Prevention inspections of plans or in other :			
ete,	7. Identify the TMDL's into a watershed with o the State Water Contro solids, turbidity, nitroger total suspended solids)	a TMDL was IBoard pric	ste load all or to July	ocation est 1, 2016 for	ablished and ap sediment, total	proved by suspended	book shallbe main (2) the time, (3) amount of accum	n event (i.e., 0.25 ntained to record whether or not ra ulated rainfallin tl	b inches of I observatio infallis occu ne gage, if d	n inform rring at any, and	greater i ation whick the time ( (5) whethe	ermine the occurrence n a 24 hour period). A n shall include (1) the do of the observation, (4) er or not an inspection	a log ate, the		
	that have been identifie Administrative Code: N 9. Locations of surface discharged from this lo	<ul> <li>8. This land disturbance activity discharges stormwater to the following surface waters that have been identified as exceptionalin Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code: N/A</li> <li>9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the</li> </ul>				o of the Virginia nwater is fied in the	If there is no rain shall be noted in required if there If there is rainfall to be noted in the additional rainfall u event, an observed be noted in the l	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							
	construction plan set (c (construction) activity. (	List name d	of surface	waters and			if there is 0.25 i	nches or more ad	ccumulation	noted in	the rain o	gage.			
	<ul> <li>shown in construction plan or other such documents).</li> <li>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.</li> <li>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):</li> </ul>					<ul> <li>15. The following VDOT documents are applicable to a) permitted projects</li> <li>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:</li> <li>VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP and ESC projects &gt; 10,000 s.f. but &lt;1 acre.</li> <li>VDOT LD-445A: Permitted projects only.</li> <li>VDOT LD-445C: Projects that require a permit, ESC Plan, or SWPPP.</li> <li>VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.</li> <li>VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.</li> <li>VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.</li> <li>VDOT LD-445D: Permitted projects (when applicable).</li> <li>Water Quality Requirement (when applicable)</li> <li>VDOT LD-445H: Permitted projects only.</li> <li>VDOT LD-445H: Approval Form (when applicable)</li> </ul>									
	Name	Pc	osition		Responsibil	ity									
	TBD TBD TBD			Sign (C-10	e SWPPP (with 07) Inspection F 07) Inspection F	orm Part 1	expected from the local watershed withe contractor sh and ensure allerce in accordance witt of the current Co	ne project with a th a sediment TM all investigate the sion and sedimen h the permits ap nstruction Genero	n implement IDL that allo area of co It controlbe proved star al Permit. If c	ed ESC cates a ncern at st manag dards ar corrective	plan) that WLA to V the site ement pro nd specific e action is	t (i.e. more than to be is discovered within a DOT's MS4, (see note within 24 hours of disc actices are being impler ations required by Par s necessary, the contro ter the initial investigati	*7) covery mented t I.B actor		
	Ж 12. The name of the V accordance with IIM-LD- identified on these SWF and maintained with the	256 on the PP General	ese land d Informatio	isturbance n Sheets. T	construction ac he names will be	tivities as e updated	responsibility of t	he contractor is	discovered	dischargi	ng into a	ity that is not the MS-4, the contractor ediment controlactivitie	S.		
	VDOT Individuals	Position		Resp	onsibility							2 PLANS			
	Marian Carroll	NPDES			responsible for	-									
	Image: Pawan SarangDistrictDistrict Hydraulic Engineer or designee(s)HydraulicHydraulicresponsible for the review & the coordinationEngineerapproval of ESC SWM Plan modification(s).					<ul> <li>X Denotes information provided/completed</li> <li>XX Denotes information provided/completed</li> </ul>	by the RLD. n that is to be	۲ ۲ ۵	ND U O BE F CO	NAPPRO USED NSTRUO	6 ARE UNFINISH DVED AND ARE FOR ANY TYPE CTION OR THE OF RIGHT OF	NOT			
							Revised 5/1/19	Sheet 1 of	4	NTS	5	PROJECT 0641-076-301	SHEET NO. 2C(1)		

VDOT Individuals	Position	Responsibility
Marian Carroll	NPDES	NPDES Coordinator responsible for the oversight inspection in accordance with IIM-LD-256
Pawan Sarang	Hydraulic	District Hydraulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM Plan modification(s).

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## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

### SECTION II EROSION AND SEDIMENT CONTROL

XX 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 document 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.

 $\times X$  7. A record of the dates when major grading activities occur, when construction act temporarily or permanently cease on a portion of the site, and when stabilization m 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 603 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied durin rainfall events. Top soil shall be applied in accordance with the current edition of sect 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 project drainage file located in the VDOT NOVA District Hydraulics Section, 4975 All Road, Phone: (800) 367-7623 and will be made available for review upon request dur normal business hours.

11. The temporary erosion and siltation controlitems shown on the ESC Plan for this disturbing (construction) activity are intended to provide a general plan for controllir erosion and sediment within the project limits. The ESC Plan is based on field condit the time of plan development and an assumed sequence of construction for the procontractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, sho the location, quantity and type of erosion and sediment controlitems required based actual field conditions encountered at the time of construction and the actual schedul sequencing of the construction activities. Significant changes to the proposed ESC P (e.g., those that require an engineering analysis, elimination of a perimeter control, ch concept that would affect the quantity or direction of flow of water) shall be submitt applicable District Hydraulics Engineer for review and approval. Any changes to the ESC Plan must be noted on the designated record set of plans which shall be retain 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 sil-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 imm upon installation. Stabilization may include temporary or permanent seeding, riprap, ag 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 construc 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.

n	ЖЖ 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.									
ts)	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.									
	construc the trans transport end of e	tion vehicular traff sport of sediment l ted onto a paved	ic access route by vehicular trac or a public road shoveling or swe	ved measure shallbe i s intersect a paved or cking onto the paved s d surface, the road sho eping. Removed sedime B Specifications.	r a public road surface. Where all be cleaned t	in order to minimize sediment is thoroughly at the				
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and	from (2) Sect (3) Date	published guidanc tion of Regulation o e that variance/exc	e) or Guidance Doc ception/deviatior	SC regulations, or Dev ument Modified (e.g. ES was approved by DEC	SC Min. Std. 15) Q.		CBPA - BMP - DEQ - EPA -			
ng tion	Choose	the appropriate no	ote 1A or 1B tha	UCTION STOR t is applicable to the p ruction) activity. (Delet	proposed post	construction	EPA - ESC - IIM - Ir R&B - RLD -			
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ted to the					]					
proposed ied on the	on the (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)									
iltation.	(3) Date	e that variance/ex	ception/deviatior	n was approved by DE(	Q.					
nediately ggregate, 1g.	water que	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.								
ction										

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g document	ation	including an explanation c contained in the project	measures f of the techr drainage fil oad, Phone:	or this la nical basis e located (800) 367	nd distur used to I in the V 7-7623 a	the post-construction bance (construction) activ select the practices, are /DOT NOVA District Hydrau and willbe made available	ulics		
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URVEIED D	NAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> NY, DATE <u>JMT, SEPTEMBER 2020</u> STORMWATER POL
	JMT (703) 464-7369 UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>
	The information contained in the SWPPP GeneralInformation sheets is intended to comply with the re From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approv
	The SWPPP GeneralInformation sheets are to be completed and included in the construction plan se area equalto or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or Chesapeake Bay Preservation Act.
	The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is up construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be 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. 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.
жж	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.
ж	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.

requirements of the VPDES GeneralPermit For Discharges Of Stormwater oved AnnualESC and SWM Standards and Specifications.

set (or other such documents) for land disturbance (construction) activities that disturb an r equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia

updated/revised as necessary in order to reflect changes that may occur during the e maintained with the designated record set of plans (or other such documents) for

## SECTION V - POLLUTION PREVENTION PLAN

activit	bllowing non-stormwater discharges from this land disturbing (construction) by and any on-site support facilities are prohibited:	2) Pr ve
	Wastewater from concrete washouts. Wastewater from the washout and cleanout of stucco, paint, from release oils, curing compounds and other construction materials.	3) Pr
C.		fro stu
d. e.		4) Mi wa
	There shall be no discharge of floating solids or visible foam in other than trace amounts	5) Di
		se
	ollowing non-stormwater discharges from this land disturbing (construction) y and any on-site support facilities are allowed when discharged in	0V
	iance with the VPDES Construction Permit:	Ha ma
•	Discharges from firefighting activities.	Lic
	Fire hydrant flushings.	CO
С.	Waters used to wash vehicles or equipment where soaps, solvents or	sh
	detergents have not been used and the wash water has been filtered, settled	
	or similarly treated prior to discharge.	6) Mi
d.	Water used to controldust that has been filtered, settled or similarly treated prior to discharge.	dis
P	Potable water sources including uncontaminated waterline flushings	bu
0.	managed in a manner to avoid stream impacts.	ins
f.	Routine external building wash down where soaps, solvents or detergents	wa
	have not been used and the wash water has been filtered, settled or	ma
	similarly treated prior to discharge.	sty
g.	Pavement wash waters where spills or leaks of toxic or hazardous	
	materials have not occurred (or where all spilled or leaked material has	7) Pr
	been removed prior to washing), where soaps, solvents or detergents have	h
	not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.	8) Ad
h.	Uncontaminated air conditioning or compressor condensate.	8) Ac a
i.	Uncontaminated ground water or spring water.	ŭ
j.	Foundation or footing drains where flows are not contaminated with	9) Mi
	process materials such as solvents.	C
k.	Uncontaminated excavation dewatering, including dewatering trenches and	b
1	excavations that have been filtered, settled or similarly treated prior to discharge. Landscape irrigation.	0
жж		n
	ontractor shall develop a Pollution Prevention Plan to address any of his on-	10) D
	rations that have a potential to generate a pollutant that may reasonably be	aw
expected	d to affect the quality of stormwater discharges from this land disturbance	pro
	ction) activity. The Pollution Prevention Plan shall be developed in	(in
	nce with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT	
	d Bridge Specifications and shall include a narrative with appropriate plan	
	d shallbe provided on standard 8.5 x 11 inch paper or larger and shall: Identify the potentialpollutant-generating activities and the pollutant that	
υ.	is expected to be exposed to stormwater.	X De
b.		pr
	will occur, or if identified on the record set of plans, reference the record	XX De
	set of plans.	pr
С.	Identify all non-stormwater discharges, as described in note two of this	þ.
	section, that are or will be commingled with stormwater discharges from	
	the construction activity, including any on-site support activities.	
d.		
	maintaining the pollution prevention practice or practices for each	
A	pollutant-generating activity. Describe the pollution prevention practices and procedures that will be	
с.	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.	

### d11555302c(3).dgn Plotted By: jthompson

		REVISED	STATE		STATE		SHEET NO.				
				ROUTE	PR	ојест 0641-076-30	);				
			VA.	641		R-201,C-50	$\frac{1}{100}$				
	DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT										
?)	Prevent the discharge of spille vehicle fueling and maintenance		d fuels	and ch	emicals from						
5)	Prevent the discharge of soaps from construction materials, in stucco, paint, form release oils	cluding proc	edures	for the							
.)	Minimize the discharge of pollu washing, wheel wash water, and				luipment						
,)	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 wastes and shall not be discharged to surface waters.										
;)	Minimize the discharge of pollu disposal of construction product building products (such as asph materials, adhesives, and concre insecticides, fertilizers, landscap wastes (such as packaging mat masonry products, timber, pipe styrofoam, concrete, and other	s, materials nalt sealants ete admixtur e materials, cerials), scro and electric	, and wa , copper es), pes constru p constr cal cuttin	stes in flashin ticides, ction a ruction gs, plas	cluding g, roofing herbicides, nd domestic materials, stics,						
')	Prevent the discharge of fuels hazardous or toxic wastes, wa		-								
;)	Address any other discharge f activity not listed herein.	rom any p	otential p	ollutant	-generating						
))	Minimize the exposure of waste covering waste containers dur business day, or implementing of exposure is not required in not result in a discharge of po	ing precipit other simila case wher	ation eve rly effec	ents an ctive pr	id at the end actices. Minin	of the nization					
0)	Describe and implement proce awareness (including but not lim practices and appropriate dispo (including any wash water), to a	ited to pre osallocation	vention p s) for all	oractice applica	es, disposal						
ж	Denotes information that is to provided/completed by the RL										
Ж	Denotes information that is to provided/completed by the co										
				6	0% PL	ANS					
		A   T   C	ND UI O BE F COI	NAPP USE NSTR	ROVED A D FOR A UCTION	UNFINISH ND ARE NY TYPE OR THE GHT OF N	NOT				
			NTS		PR	ојест 076-301	SHEET NO. 2C(3)				
	Revised 5/1/19	9									

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JECT MANAGER_	SHERRY DJOUHARIAN	(703) 792-6822		
RVEYED BY, DATE . SIGN BY <u>JMT (70</u>	JMT, SEPTEMBER 20	20		
	BY, DATE <u>JMT, SEPT</u>	EMBER 2020		
The	information cont	ained in the SWPPP GeneralInforma	tion sheets is intended to	Т
		irements of the VPDES General Per		sl
		onstruction Activities (the VPDES Co		C
July	71, 2019 and VDO	T's approved AnnualESC and SWM	Standards and Specifications.	sł la
The	SWPPP General Ir	nformation sheets are to be compl	eted and included in the	
	-	(or other such documents) for land		
		an area equalto or greater than O square feet in the area defined	•	
	•	Bay Preservation Act.	us ndewater, virginia in the	
INSTALLED B	MP INFORMATION			
(VDOT Ow	ned/Operated)			
Plan Sheet(s)		Type of BMP Installed	Geographic Location	Latit
	Made Functional	(See Table A and C )	(County or City)	
				–
				LAT
			Prince William	
Plan Shee	et(s) Date	Type of BMP Installed (See Table B)	(County or City) Lat (5) LAT	itude/Lc (1) (5
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-retention F Instructed S ended Deten ended Deten	ilter tormwater Wetland		Grass Channel Soil Compost Amendment Permeable Pavement (Level 1) Permeable Pavement (Level 2	er Strip
-retention F Instructed S ended Deten ended Deten Inssed Swale	ilter tormwater Wetland ntion Basin ntion Basin Enhand		Grass Channel Soil Compost Amendment Permeable Pavement (Level 1)	er Strip
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## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

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 and disturbance (construction) activity.

## SECTION VI - PERMANENT BMP INFORMATION $\Delta$

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

titude/Longitu (1)	de	VA 6th Order HUC	Receiving Wa (2)	ter	Name of Impaire Water (9)	d	Acres	s Treat
LON	G	(7)					Impervious	Per
								<u> </u>
ongitude 5)	VA 6th Order HUC (5)(7)	R	eceiving Water (2)		of Impaired ater (9)	Perp	Name of Name of Nutrient Cre Generating E (6)	edit
LONG							[	
<u>IP Clearing H</u>	ouse)	NOTES: (1) In decim	aldegrees to the near	rest one ten-th	ousandth of a degre	e.		
F		(2) For stre	eams with no names, li	ist ''(Unnamed <sup>-</sup>	Tributary to downstr	eam name)''.		
		(3) Show a	cres treated to the n	earest one hun	dreths acre.			
		(4) Include	agreements with off-s	ite BMP owners	S.		t	⊃rovide the <sub>.</sub> typ
			tion pertains to the a on – Not required for			e applicable.	E	ousines Example and ins
		(6) Applies	to the purchase of nu	utrient credits c	only.			Nutrient
		(7) Virginia	6th Order HUC (VAHU	6) Example -	Y030.			
			proved shop drawings I with the BMP inform				be	
		The det listed a Assessr to whic	name of any impaired cermination of impaired s impaired in the DEQ nent Integrated Report h the BMP discharges. ment, total suspended	t water shall be 2012 305(b)/. t and shall be th . The impaired w	based on those str 303(d) Water Quality ne first named water waters are those im	eams body paired		
D)(8)		Mainten This ID	aintenance ID Number ance Division at permit number shallbe assigr ered by the area con 95	t termination or ned prior to the	project completion. permit close out p	rocess		
							Sheet	<u> </u>

### dll555302c(4),dgn Plotted By: jthompson

		RE	VISED	STATE		STA	ſE	SHEET NO
				VA.	route 641	F	0641-076-30 R-201,C-50	
		OR TO MAY		TION AND CT TO C	) CONTRO HANGE A			
ed Per B		₩ BMP Maint ID Nurr (10)	nber	BN	Man (11	1)	BMP Inspec Manual (11)	tion
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Acquired Nutrient (Ibs./TP Acqu (6) (	./year) ired	project th or potent Tables A RLD with Engineer. and/or B approved proposed be comple and the ( and seale signing por record dr Plan File termination For The I Activities, review th acceptance Maintenan The RLD with the of the BMP (for BMPs when cert	nat affect ially affect and/or l the app The con are to changes BMP con eted in acconstruct d in acconstruct	ts the ects the sects th ropriate struction be for struction cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance cordance corda	propose e inform be coor e VDOT on plan mally re- tion def once with or e with d with or e act for mate for mate nance on al as ly) to of structio under	mationshown ordinated by District Hy s and the E evised to re osed SWM I tails. All plan th the Road M-CD-2013- Department filed with the the VDOT C Prior to sub the VDOT C Prior to sub the VPDES ter From C ionin BMP listed ionin BMP T ID number c a permanen complete th n of the BM theVPDES (	ction details in the BMP the VDOT draulics BMP Tables A eflect any author Plan and/or the revisions shall d Design Manual 12.01, signed 's sealing and e construction central Office omitting for General Permit	ision for A. along at re m ing for or
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PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u>	
SURVEYED BY, DATE JMT, SEPTEMBER 2020	
DESIGN BY	
SUBSURFACE UTILITY BY, DATEJMT. SEPTEMBER 2020	

### **PURPOSE**

9VAC25-870-54 of the Virginia Stormwater Management Program (VSMP) Permit Regulations requires that Stormwater Pollution Prevention Plan (SWPPP) be developed for all regulated land disturbing activities. The SWPPP must include, but not be limited to, an approved erosion and sediment control plan, an approved stormwater management plan, and this **Pollution Prevention Plan** (PPP) for regulated land disturbing activities, and a description of any additional control measures necessary to address a TMDL as applicable.

The plan for implementing pollution prevention measures during construction activities developed on this sheet must be implemented and updated as necessary. Any PPP requirements not included on this sheet must be incorporated into the SWPPP required by 9VAC25-870-54 that must be developed before land disturbance commences. This PPP identifies potential sources of pollutants that may reasonable be expected to affect the quality stormwater discharges from the construction site (both on- and off-site activities) and describes control measures that will be used to minimize pollutants in stormwater discharges from the construction site.

### OTHER REFERENCED PLANS

SWPPP requirements may be fulfilled by incorporating, by reference, other plans. All plans incorporated by reference become enforceable under the VSMP Permit Regulations and General Permit VAR10 for Discharges of Stormwater from Construction Activities. If a plan incorporated by reference does not contain all of the required elements of the PPP, the operator must develop the missing elements and include them in the SWPPP.

Independent Plans Incorporated by Reference	Date Approved
Stormwater Management Plans (Regional or Master)	
Erosion and Sediment - Control Plans	
Off-Site Stockpile	
Off-Site Borrow Area	

### POTENTIAL POLLUTANT SOURCES

The following sources of potential pollutants must be addressed in the Pollution Prevention Plan. Various controls and/or measures designed to prevent and/or minimize pollutants in stormwater discharges from the project site must be applied to the sources found on the site. Additional information concerning the following controls and/or measures may be found in the SWPPP. Deviations from the location criteria may be approved by the Public Works Site Inspector.

- LEAKS, SPILLS, AND OTHER RELEASES ✓ The operator(s) shall ensure procedures are in place to prevent and respond to all
- leaks, spills and other releases of pollutants. ✓ The operator(s) shall ensure all leaks, spills and other releases of pollutant are
- contained and cleaned immediately upon discovery. Any contaminated materials are to be disposed in accordance with federal, state, and/or local requirements. ✓ The operator(s) shall ensure spill containment kits containing appropriate materials (e.g., absorbent material and pads, brooms, gloves, sand, etc.) are available at appropriate locations, including, but not limited to: designated areas for vehicle and equipment maintenance; vehicle and equipment fueling; storage and disposal of construction materials, products, and waste; and storage and disposal of hazardous and toxic materials: and sanitary waste facilities.
- ✓ The locations of the spill containment kits are identified as described below:

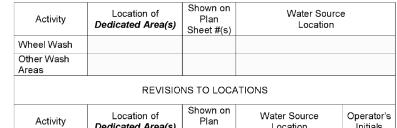
Date	Shown on Plan Sheet #(s)	Location	
Approved Plan			
		REVISIONS TO LOCATIONS	
Date	Shown on Plan Sheet #(s)	Location	Operator(s) Initials

✓ The operator(s) shall notify the Department of Environmental Quality (DEQ) of leaks, spills, and other releases that discharge to or have the potential to discharge to surface waters immediately upon discovery of the discharge but in no case later than 24 after the discovery. Written notice of the discharge must be sent to DEQ and Prince William County Department of Public Works within five (5) days of the discovery.

	Virginia Department of Environmental Quality	PW County Department of Public Works
	Northern Regional Office	5 County Complex Court
	(703) 583-3800 (voice)	Prince William, Virginia 22192
	(703)-583-3821 (fax)	703-792-7070
	Website:	PW County Department of Fire & Rescue
	http://www.deq.virginia.gov/Programs/Pollution	1 County Complex Court
	ResponsePreparedness/MakingaReport.aspx	Prince William, Virginia 22192
	For emergencies	703-792-6800
	1-800-468-8892 (outside normal working	703-792-6813 (outside normal working
	hours)	hours)
Î	· · · · · · · · · · · · · · · · · · ·	

### **EQUIPMENT / VEHICLE WASHING**

- ✓ Washing must be conducted in a *dedicated area* that is located to maximize the distance from storm drain inlets, ditches, waterbodies or wetlands but no less than
- 50 feet from those features.
- ✓ All wash water used in vehicle wheel washing must be directed to a sediment basin/trap. ✓ All vehicle washing activities other than wheel washing must have secondary
- containment
- ✓ Each facility must have appropriate signage to inform users where the *dedicated* area(s) are located



Sheet #(s)

Location

Initials

Dedicated Area(s)

Activity

### VEHICLE FUELING AND MAINTENANCE

- ✓ Conduct regular maintenance in a *dedicated area* that is located to maximize the
- distance from storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features.
- ✓ If fueling is conducted at a *dedicated area*, the location must be located to maximize the distance from storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features.
- ✓ The *dedicated areas* must be designed to eliminate the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities by providing secondary containment (spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available). ✓ Each facility must have appropriate signage to inform users where the *dedicated*
- area(s) are located. Shown on

Date	Plan Sheet #(s)	Location of <i>Dedicated Area(s)</i>	
Approved Plan			
		REVISIONS TO LOCATIONS	
Date	Shown on Plan Sheet #(s)	Location of <i>Dedicated Area(s)</i>	Operator's Initials

- ✓ If mobile fueling will be used, the fueling must be done in an area that is located to maximize the distance from storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features.
- ✓ Spill kits must be readily available at all mobile fueling locations.
- ✓ On-site storage tanks must have a means of secondary containment (spill berms, decks, spill containment pallets, etc.) and must be covered where appropriate.  $\checkmark$  All vehicles on site must be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.

### DISCHARGE FROM STORAGE, HANDLING, AND DISPOSAL OF CONSTRUCTION PRODUCTS, MATERIALS, AND WASTE

- $\checkmark$  Storage of construction products, materials, and waste is to be conducted in dedicated areas.
- ✓ The *dedicated area* must be located to maximize the distance from storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features. Separations of less than 50 feet may be approved by the Public Works Site Inspector.
- $\checkmark$  The *dedicated areas* must be designed to minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes including (i) building products such as asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures; (ii) pesticides, herbicides, insecticides, fertilizers, and landscape materials; and (iii) 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 products.
- $\checkmark$  Each facility must have appropriate signage to inform users where the *dedicated* area(s) are located. Shown on

Date	Plan Sheet #(s)	I Location(s) of Dedicated Area(s) for storage of construction	
Approved Plan			
		REVISIONS TO LOCATIONS	
Date	Shown on Plan Sheet #(s)	Location(s) of <i>Dedicated Area(s)</i> for storage of construction products and materials	Operator(s) Initials
			<u> </u>
Date	Shown on Plan Sheet #(s)	Location(s) of <b>Dedicated Area(s)</b> for wast construction products and materials	e from
Approved Plan			
		REVISIONS TO LOCATIONS	
Date	Shown on Plan Sheet	Location(s) of <b>Dedicated Area(s)</b> for waste	Operator(s)

Date	Plan Sheet #(s)	Location(s) of <i>Dedicated Area(s)</i> for waste from construction products and materials	Operator(s) Initials

- ✓ Follow all federal, state, and local requirements that apply to the use, handling and disposal of pesticides, herbicides, and fertilizers.
- ✓ Keep chemicals on-site in small quantities and in closed, well marked containers.
- $\checkmark$  Clean up solid waste, including building materials, garbage, and debris on a daily basis and deposit into covered dumpsters that are periodically emptied. ✓ Schedule waste collection to prevent exceeding the capacity of onsite containers. Additional containers may be necessary depending on the phase of construction
- (e.g., demolition, etc.) ✓ Dispose of all solid waste at an authorized disposal site.
- $\checkmark$  Ensure that containers have lids or are otherwise protected from exposure to precipitation DISCHARGES FROM OTHER POTENTIAL POLLUTANT

### SOURCES

 $\checkmark$  Discharges from other pollutant sources (e.g., water line flushing, storm sewer flushing, above ground storage tanks, etc.) not mentioned elsewhere must be addressed.

Location(s) of Potential Pollutant Sou

- ✓ Above ground oil storage tanks with a storage capacity exceeding 1,320 gallons and have a reasonable expectation of a discharge into or upon Waters of the United States are required to have a Spill Prevention Control and Countermeasure (SPCC)
- $\checkmark$  The discharge of contaminated flush water and material removed during flushing operations must be collected and disposed of in accordance with appropriate federal, state, and local requirements.

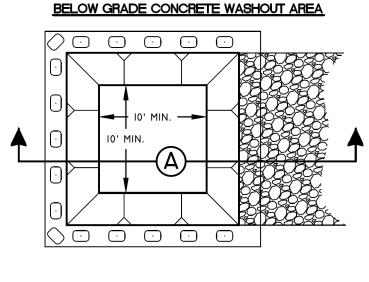
# PWC SWPPP

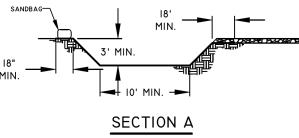
### DISCHARGES FROM CONCRETE RELATED WASH ACTIVITIES

- ✓ Concrete trucks are not allowed to wash out or discharge surplus concrete or drum wash water on site except in a *dedicated area(s)* that is located to prevent discharge to storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features.
- ✓ Each facility must have a stabilized access to prevent mud tracking into the street. ✓ Each facility must have appropriate signage to inform users where the *dedicated* area(s) are located.

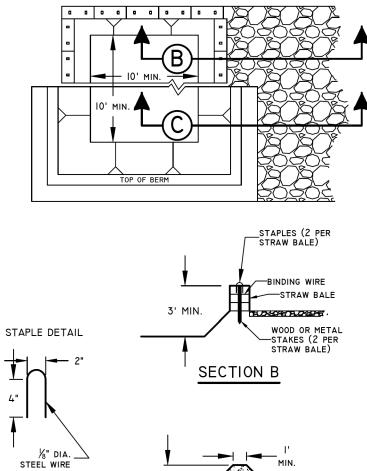
Date	Shown on Plan Sheet #(s)	Location of <i>Dedicated Area(s)</i>	
Approved Plan			
		REVISIONS TO LOCATIONS	
Date	Shown on Plan Sheet #(s)	Location of <i>Dedicated Area(s)</i>	Operator's Initials

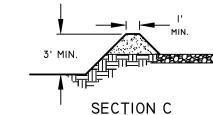
✓ Facilities must be cleaned, or new facilities constructed, once the washout area is two-thirds (2/3) full.





### ABOVE GRADE CONCRETE WASHOUT AREA



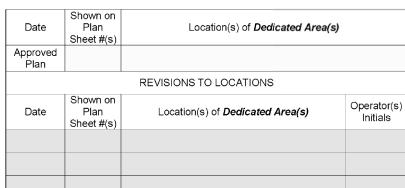


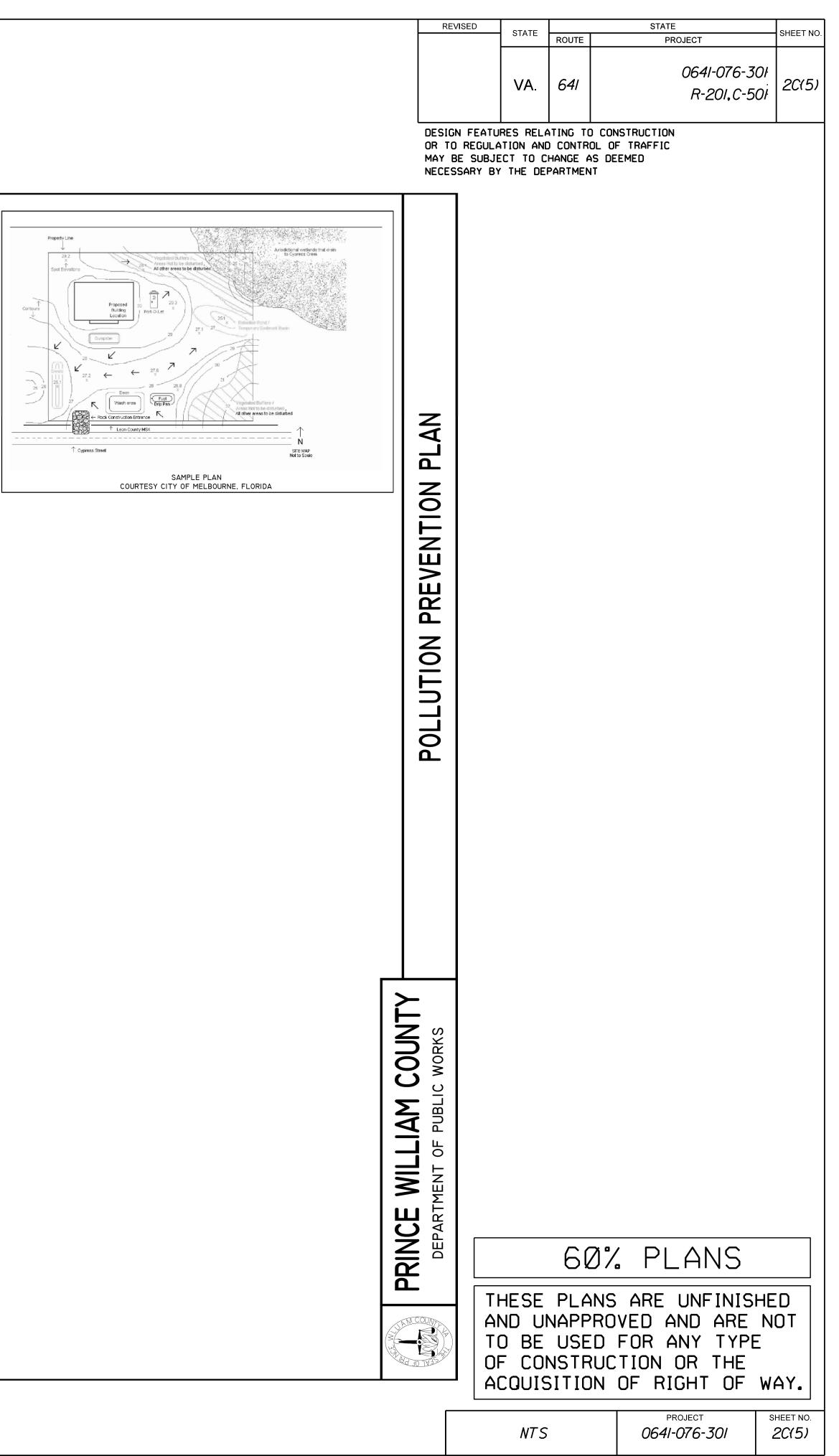
### **CONCRETE WASHOUT AREA NOTES**

- ✓ The facility must be lined with 10 mil plastic lining that is free from holes, tears, or
- other defects that might compromise the material's impermeability.
- ✓ The lining must be anchored with staples (2' spacing) or sandbags. ✓ Side slopes must be 1:1 (horizontal:vertical) or flatter.
- ✓ Stone access must be provided between the street and the concrete washout area.
- ✓ A "Concrete Washout" sign must be installed within 30 feet of the washout facility. The sign must be no smaller than 2' tall by 4' wide.

### DISCHARGES OF SOAPS, DETERGENTS, SOLVENTS, AND WASH WATER FROM CONSTRUCTION ACTIVITIES SUCH AS CLEANUP OF STUCCO, PAINT, FORM RELEASE OILS, AND CURING COMPOUNDS

- Washing activities associated with construction activities other than vehicle and equipment washing, such as clean up of stucco, paint, form release oils, and curing compounds are to be conducted in a *dedicated area*. The dedicated area must be located to maximize the distance from storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features. Separations of less than 50 feet may be approved by the Public Works Site
- Inspector The dedicated areas must be designed to prevent the discharge of soaps, detergents, solvents, and wash water.





- ✓ The *dedicated area* must be covered (e.g., plastic sheeting, temporary roof, etc.) to prevent contact with stormwater ✓ The contaminated wastewater from the *dedicated area* must be collected for
- disposal by a waste hauler or discharged to the sanitary sewer.

### **DISCHARGES OF HAZARDOUS, TOXIC,** AND SANITARY WASTE

	Storage and disposal of hazardous, toxic and sanitary wastes are to be conducted in <i>dedicated areas</i> .
	The <i>dedicated areas</i> must be located to maximize the distance from storm drain inlets, ditches, waterbodies or wetlands but no less than 50 feet from those features. Separations of less than 50 feet may be approved by the Public Works Site Inspector.
1	The <b>dedicated areas</b> must be designed to prevent the discharge of hazardous, toxic and sanitary waste by avoiding contact with precipitation

✓ Each facility must have appropriate signage to inform users where the *dedicated* area(s) are located. Shown on Location(s) of *Dedicated Area(s)* for storage and disposal of Date

Dute	Sheet #(s)	hazardous and toxic wastes	
Approved Plan			
		REVISIONS TO LOCATIONS	
Date	Shown on Plan Sheet #(s)	Location(s) of <b>Dedicated Area(s)</b> for storage and disposal of hazardous and toxic wastes	Operator(s) Initials

Date	Shown on Plan Sheet #(s)	Location(s) of <b>Dedicated Area(s)</b> for portable toilets		
Approved Plan				
		REVISIONS TO LOCATIONS		
Date	Shown on Plan Sheet #(s)	Location(s) of <b>Dedicated Area(s)</b> for portable toilets	Operator(s) Initials	

✓ Consult with local waste management authorities or private firms about the requirements for disposing of hazardous materials and/or soils that may be contaminated with hazardous materials.  $\checkmark$  Never remove the original product label from the container. Follow the

manufacturer's recommended method of disposal. ✓ Schedule periodic pumping of portable toilets and dispose of waste

✓ Dispose of all solid waste at an authorized disposal site.

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SUBSURFACE UTILITY BY, DATE \_\_JMT. SEPTEMBER 2020\_\_

The Project is located within one 6th Order HUC. Per the latest publication of VDOT's Instructional and Informational Memorandum (IIM), IIM-195.12, the area subject to VSMP regulations excludes areas defined as routine maintenance. IIM-195.12 defines routine maintenance as 'those activities performed to maintain the original line and grade, hydraulic capacity or original construction of the Project.' Routine maintenance includes areas of mill & overlay as well as areas of full-depth reconstruction. Therefore, preparation of the VSMP calculations for the Project deducted all areas considered routine maintenance from the total disturbed area for the Project site. However, the routine maintenance exemption does not apply to the Virginia Erosion and Sediment Control (ESC) Program. See Appendix E Land Use Mapping for a graphical depiction of the overall Project areas, existing and proposed impervious surface areas and those areas defined as routine maintenance under both pre- and post-construction conditions. See Appendix E for the VRRM spreadsheet computations. Table 4 summarizes the areas used in the VRRM calculations and the required removal rate of pounds of phosphorus.

Тс N R Re R

The total annual pollution load reduction requirement for the Project produces a negative number of -0.09 LB/YR. No TP load reduction is required, likely due to the overall reduction in impervious surface under the post-development condition. Per VSMP Regulations 9VAC25-870-69, offsite compliance options may be used to meet the required phosphorus nutrient reductions because the Post-Construction Total Phosphorus Load Reduction is less than 10 lbs. Since the required removal is less than zero, there will be no purchase of credits or onsite treatment for this project.



# NUTRIENT CREDIT PURCHASE

Old Bridge Road and Occoquan Road Intersection Improvement

### Water Quality

I able 4:		roject Areas	
		<b>Pre-Construction</b>	Post-Construction
Total Project Limits of Construction (LOD)	AC	5.64	5.64
Maintenance Area (exempt from VSMP Regulations)	AC	2.61	2.61
Remaining	AC	3.03	3.03
Managed Turf	AC	0.85	2.00
mpervious Surface	AC	1.20	0.60
Forested	AC	0.56	0.00
Required Removal Rate	lb/yr	-0.09	

### Table 4. VRRM Project Areas



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		N/A		0641-	076-301	2C(6)

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PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>

### EROSION & SEDIMENT CONTROL NARRATIVE

### PROJECT DESCRIPTION

This project is located in Prince William County and approximately 5.6 acres will be disturbed by the proposed construction/maintenance activity. Roadway improvement project realigning the reverse curve of Old Bridge Road for 0.243 miles from Old Bridge Road 500 feet West of the intersection with Occoquan Road to 600 feet East of the same intersection. Roadway typical section will be closed curb and gutter with a raised median. This project is covered under the DCROIVSMP General Permit for Discharges of Stormwater from Construction Activities.

### EXISTING SITE CONDITIONS

The topography is gently sloping falling from the westerly portion of the site to the easterly portion of the site and from Old Bridge Road falling north along Occoquan Road. The site is predominantly paved with small strips of grassed and wooded areas along the roadway corridor.

### ADJACENT PROPERTY

Adjacent to Route I on both sides are primarily commercial developed properties with undeveloped parcels directly to the Northwest and Southeast of the Old Bridge - Occoquan intersection.

### OFF-SITE AREAS

There are no anticipated Off-Site borrow areas and/or surplus material disposal areas associated with this project. Therefore offsite-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.

### <u>SOILS</u>

According to the Soil Survey of Prince William County, Virginia, the soils in the project area primarily consist 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.

The project site directly east of the intersection primarily consists of Neabsco - Quantico complex (42B). These soils are very deep and gently sloping, and are on medium-wide to broad ridges. The complex consists of approximately 45 percent moderately well drained Neabsco soils, 35 percent well drained Quantico soils, and 20 percent other soils. Neabsco soils have a medium surface runoff, moderate erosion hazard, and a low shrink-swell potential. Quantico soils have a medium surface runoff, moderate erosion hazard, and a moderate shrink-swell potential.

### CRITICAL EROSION AREAS

According to the NRCS, the area east of the intersection is considered a moderate erosion hazard. However, due to the limited pervious area to be exposed during construction, the current erosion and sediment control plans are sufficient.

### EROSION AND SEDIMENT CONTROL MEASURES

Inless 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 (2007). See sheet 2E(1) and 2E(2) for a list of E&S controls used and General E&S notes.

### PERMANENT STABILIZATION

Permanent stabilization shall be done in accordance with the VESCH and VDOT Road & Bridge Specifications (2016). 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. Therefore stormwater management has been designed and controls have been put in place to address stormwater management. See drainage report for more details.

### VEGETATIVE PRACTICES

I.<u>Temporary Seeding - 3.31</u> 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 with in 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. <u>Permanent Seeding 3.32</u>

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

I. Flag limits of clearing and grading and hold pre-construction meeting. 2. Install construction entrances with wash racks as needed. Water for the wash racks to be provided by private water truck if no hydrant is available. 3. Provide minimum grading to allow Phase I measures to be installed. 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 I 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 I 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.

IO. Lime, fertilize and permanently seed and mulch all areas that will not receive impervious cover.

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 I. It will be the responsibility of the Contractor to ensure that all downstream areas are protected against erosion and sedimentation. In doing so, the Contractor 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 and 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 as the Contractor deems necessary to prevent erosion and movement of sediment to off-site areas. Additional measures should be authorized by the project manager 5. All temporary erosion and sediment control measures shall be removed within 30 days 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, 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 and 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, stock piles 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. 3: I 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 area's 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.

Prince William County Inspector.

### LAND DISTURBING/CONSTRUCTION SEQUENCE PHASE I A Pre-Construction meeting shall be held prior to commencement of work.

Prior to clearing and grubbing, all perimeter controls are to be installed as shown and as necessary. Construct temporary sediment traps at proposed locations. The contractor shall install and maintain all necessary temporary pipes to provide adeauate drainage throughout construction. Construct proposed drainage outfalls and channel relocations or improvements as shown on the plans. For all ditches constructed during Phase I, the required 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

After the County Site Inspector's approval of Phase IE&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 finial paving. Clean site of all trash and debris. Have the County Inspector inspect all areas to determine if they are adequately stabilized.

# EROSION & SEDIMENT CONTROL GENERAL NOTES

The first step in this Erosion and Sediment Control Plan for this multi-phase project is to install all perimeter controls. All perimeter controls will be in place prior to any excavation.

Phase I of the Erosion and Sediment Control Plan shall:

II. For vegetative stabilization of all denuded areas see erosion control measures and vegetative

The implementation of Phase II controls cannot begin until the Phase II controls have been approved by the

### <u>CHECKLIST</u> FOR EROSION AND SEDIMENT CONTROL PLANS

<u>2E(1&2)</u> <u>Minimum Standards</u> - All applicable Minimum Standards must be addressed. Narrative

2E(1)	<u>Project description</u> - briefly describes the nature and purpose of the land-disturbing activi the area (acres)to be disturbed.
2E(1)	Existing site conditions - a description of the existing topography, vegetation and drainage.
<u>2E(1)</u>	<u>Adjacent areas</u> - A description of neighboring areas such as streams,lakes,residential area etc.,which might be affected by the land disturbance.
2E(1)	<u>Off-site areas</u> - Describe any off-site land-disturbing activities that will occur(including bord sites,waste or surplus areas,etc.). Will any other areas be disturbed?
2E(1)	<u>Soils</u> - a brief description to the soils on the site giving such information as soil name, map unit, erodibility, permeability, depth, texture and soil structure.
2E(1)	<u>Critical areas</u> - A description of areas on the site which have potentially serious erosion pro (e.g., steep slopes, channels, wet weather/underground springs, etc.).
<u>2E(1)</u>	<u>Erosion and sediment control measures</u> - A description of the methods which will be used to erosion and sedimentation on the site. (Controls should meet the specifications in Chapter 3.
2E(1)	<u>Permanent stabilization</u> - A brief description,including specifications,of how the site will be stabilized after construction is completed.
0 = / 1)	

<u>Stormwater runoff considerations</u> - Will the development site cause an increase in peak run Will the increase in run off cause flooding or channel degradation down stream? Describe strategy to control stormwater runoff.

### SITE PLAN

1A	<u>Vicinity map</u> - A small map locating the site in relation to the surrounding area. Include an landmarks which might assist in locating the site.
1A	Indicate north - The direction of north in relation to the site.
1H <u>(3)-1H(1</u> 8)	Limits of clearing and grading - Areas which are to be cleared and graded.
1H <u>(3)-1H(1</u> 8)	Existing contours - the existing contours of the site.
1H <u>(3)-1H(1</u> 8)	Final contours - Changes to the existing contours, including final drainage patterns.
1H <u>(3)-1H(1</u> 8)	Existing vegetation - The existing tree lines, grassed areas, or unique vegetation.
_2E(3)_	<u>Soils</u> - The boundaries of different soil types.
3 <u>C/D-6C/</u> D	<u>Existing drainage patterns</u> - The dividing lines and the direction of flow for the differe areas. Include the size (acreage) of each drainage area.
N/A	<u>Critical erosion areas</u> - Areas with potentially serous erosion problems. (See Chapter 6 for criteria.)
1H <u>(3)-1H(1</u> 8)	<u>Site Development</u> - Show all improvements such as buildings, parking lots, access roads, util construction, etc.
3 <u>C/D-6C/</u> D	Location of practices - The locations of erosions and sediment controls and stormwater n practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of handbook.
<u>N/A</u>	<u>Off-site areas</u> - Identify any off-site land-disturbing activities (e.g., borrow sites, waste ar etc.). Show locations of erosion controls. (Is there sufficient information to assure adequa protection and stabilization?)

<u>N/A</u> <u>Detail drawings</u> - Any structural practices used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used that are not referenced to the E&S hand used to the E h local handbooks should be explained and illustrated with detail drawings.

<u>2E(1)</u> <u>Maintenance</u> - A schedule of regular inspections and repair of erosion and sediment control structures should be set forth.

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	Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER					
a activity, and inage. al areas, road, ng borrow me, mapping ion problems used to control pter 3.) will be tk runoff rates? scribe the de any	<ol> <li><u>2. Temporary Construct</u> Temporary construct limits. During muddy, wheels before leavin be cleaned at the en rack to be provided water truck.</li> <li><u>3. Construction Road</u> Temporary stabilizat traffic areas immed and to prevent havin</li> <li><u>4. Silt Fence Barrien</u> Silt fence sediment is sediment-laden runo</li> <li><u>5. Storm Drain Inleit</u> All storm sewer inle filtered before ente.</li> <li><u>6. Culvert Inlet Prote</u> All culvert inlets sha before entering the</li> <li><u>7. Temporary Diversi</u> Diversion Dikes sha the sediment traps. L water around the di</li> <li><u>8. Temporary Diversion</u> existing channels at</li> <li><u>9. Temporary Sedime</u> A temporary ponding outlet. The depth and will be filled in Pha details of the sediment IO. <u>Rock Check Dams</u></li> </ol>	Letion Entrance - ion entrances win conditions, driven by the limits of con- d of each day, in by fire hydrant. d Stabilization - Stabil	und all ten <u>3.02</u> th wash re- rs of cons- onstruction accordance lf no hydr <u>3.03</u> access r ing to red manent roce <u>ilt Fence L</u> nstalled do t flow, as red during ewer inlets uring cons ted during construction ow major hall be ins e installea construction rmed by co f the trap rm sewer wn on the	cks shall be struction vehi on Any sedime on Any sedime on any sedime on any sedime ant is availab pads, subdivis on a solve any availab solve any availab solve any availab solve any availab solve any availab any availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab availab a	nent traps in accordance with the installed adjacent to the construc- cles will be required to wash the num standard #I7. Water source for our standard #I7. Water source for ion streets, parking areas and or caused by vehicles during wet we en initial grading and final stabil areas with minimal grades to fili- the plans. In. Sediment-laden water shall be ment-laden water shall be filtered to direct sediment-laden runoft major graded areas to divert cle ions shown on the plan to divert verts to be performed in the dry in earthen embankment with a ston in place and functional. Specific	ction ir ll for wash te ther ization. ter ter the the the weir and
ferent drainage 5 for 5,utility ter management of the	concentrated stormw					
te areas, lequate						
and book or control						
					7 PLANS S ARE UNFINISH OVED AND ARE I FOR ANY TYPE CTION OR THE OF RIGHT OF N	IED Not
			N / A	1	<b>PROJECT</b> 0641-076-301	SHEET NO. 2D(1)

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IRF	FACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>
	EROSION
4V #	AC50-30-40 MINIMUM STANDARDS. (MS-19)
4/V	EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITE CHNIQUES AND METHODS:
. /	PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS ANY PORTION OF THE SITE.TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS.PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THA LEFT DORMANT FOR MORE THAN ONE YEAR.
2.	DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMEN MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOILS STOCK SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
	A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMAN VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT,IS UNIFORM,MATURE ENOUGH TO S WILL INHIBIT EROSION.
	SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP SLOPE LAND DISTU TAKES PLACE.
	STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
	SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE S THE TRAP OR BASIN.
	<ul> <li>a. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AND THE TRAP SH CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.</li> <li>b. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUB ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURIN FIVE YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.</li> </ul>
	CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUN ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING M UNTIL THE PROBLEM IS CORRECTED.
	CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PEF CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
Э.	WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
	ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WA ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
	BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECT REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CH
	WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMEN AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NON ERODIBLE MATERIAL SHALL BE THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NON COVER MATERIALS.
	WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMP VEHICULAR STREAM CROSSING CONSTRUCTED OF NON ERODIBLE MATERIAL SHALL BE PROVIDED.
4.	ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE
	THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
	UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLIC CRITERIA:
	<ul> <li>a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.</li> <li>b. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCHES.</li> <li>c. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.</li> <li>d. MATERIAL USED FOR BACK FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE S e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.</li> <li>f. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.</li> </ul>
	WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE TH OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC I SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM T SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY A SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER L DISTURBING ACTIVITIES.
	ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION THE TEMPORARY MEASURES ARE NO LONGER NEEDED,UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY.TRAPPE SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
	PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION DUE TO INCREASE IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:
	<ul> <li>a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.</li> <li>b. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:         <ul> <li>(I) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR</li> </ul> </li> </ul>
	(2) (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT O 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 STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWA
	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 STORMW CONTAINED WITHIN THE PIPE OR SYSTEM.

# SEDIMENT CONTROL GENERAL NOTES

	c. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:	
RIA,	(I) IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL	
REACHED ON	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	E
OT BE AT ARE TO BE	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	/.
t trapping Piles on	(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.	2
ENT	e. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.	
urvive and	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.	3
BE RBANCE	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.	4
	h. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE. 1. 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.	5
ERVED BY	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.	6
all only Three	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.	7
C YARDS PER G A TWENTY- EARTH	MINIMUM_STANDARDS_(MS-19) NARRATIVE	8
TO BE ASURES	I. INSTRUCTION FOR TEMPORARY SOIL STABILIZATION REQUIREMENTS ARE PROVIDED ON THE PLANS,SEE THE E&S NARRATIVE - VEGETATIVE PRACTICES #I ON SHEET #2E(I) AND SEED MIXTURES AND APPLICATION RATES IN TABLE 3.3I-B ON SHEET #2E(4). INSTRUCTION FOR PERMANENT STABILIZATION REQUIREMENTS ARE PROVIDED ON THE PLANS,SEE THE E&S NARRATIVE -VEGETATIVE PRACTICES #2 ON SHEET #2E(I).	9
IANENT	2. DURING CONSTRUCTION OF THE PROJECT,ANY SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.THE CONTRACTOR 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.	
ER CANNOT	3. A NOTE STATING THE DEFINITION OF PERMANENT STABILIZATION IS PROVIDED ON THE PLANS,SEE THE E&S NARRATIVE - VEGETATIVE PRACTICES #2 ON SHEET #2E(I) AND TABLE 3.32-D ON SHEET #2E(4).	
ON AND ANY	4. ALL SEDIMENT TRAPPING MEASURES SHALL BE CONSTRUCTED AS A FIRST STEP PRIOR TO UP SLOPE LAND DISTURBANCE.	
ANNEL.	5. STABILIZATION MEASURES ARE PROVIDED FOR THE EARTHEN STRUCTURES,SEE THE E&S NARRATE MANAGEMENT STRATEGIES,ITEM 4 AND SEED MIXTURES AND APPLICATION RATES IN TABLE 3.3I-B ON SHEET 2E(4).	
TRANSPORT SED FOR ERODIBLE	6a. THE SEDIMENT TRAPS ARE CONTROLLING LESS THAN THREE ACRES AND ARE DESIGNED WITH A MINIMUM STORAGE CAPACITY OF 134 CUBIC YARDS PER ACRE,SEE STRUCTURAL PRACTICES ON SHEET 2E(1).	
RARY	6b. N/A	
IET.	7. CUT AND FILL SLOPES SHOWN ON THIS PLAN HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND DESIGNED TO PREVENT EROSION.INSTRUCTION FOR PERMANENT STABILIZATION REQUIREMENTS ARE PROVIDED ON THE PLANS,SEE THE E&S NARRATIVE - VEGETATIVE PRACTICES #2 ON SHEET #IJ.PROVIDE SURFACE ROUGHENING OR CRIMPING TO ENHANCE SEED GERMINATION.	
BLE	8. ANY CONCENTRATED RUNOFF FROM THIS SITE IS OUTLET INTO AN ADEQUATE OUTFALL CHANNEL.CHANNEL ADEQUACY WILL BE VERIFIED WITH THE SUBMISSION OF THE ROADWAY CONSTRUCTION PLANS AND DRAINAGE CALCULATIONS.	
DLL	9.IT IS NOT KNOWN AT THIS TIME IF THERE WILL BE ANY SEEPAGE OF WATER FROM UNDERGROUND.WHENEVER WATER SEEPS FROM A SLOPE FACE,ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.	
OR BOTH,	IO. INLET PROTECTION HAS BEEN PROVIDE FOR ALL STORM SEWER INLETS DOWN SLOPE OF THE DISTURBANCE ACTIVITIES, SEE PLAN SHEETS 3C/D THRU 6C/D.	10
ABILIZATION.	II. OUTLET PROTECTIONS ARE PROVIDED ON THE PLAN AT THE APPROPRIATE LOCATIONS,SEE EROSION AND SEDIMENT CONTROL SHEETS 3C/D THRU 6C/D.	//
TRANSPORT DAD	12. ENCROACHMENT IN THE WATERCOURSE SHALL BE LIMITED TO THE LIMITS OF DISTURBANCE,WHICH ARE AT A MINIMUM TO CONSTRUCT THE ROAD.SILT FENCE AND DIVERSION DIKES ARE PROVIDED TO CONTROL SEDIMENT TRANSPORT.	11
E ROADS BY TER ND-	13. WHERE IT IS NECESSARY TO CROSS A LIVE WATERCOURSE,A TEMPORARY OR PERMANENT VEHICULAR STREAM CROSSING,IN ACCORDANCE WITH VESCH 3.24,SHALL BE PROVIDED.	
	14. ALL APPLICABLE FEDERAL,STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.	12
OR AFTER MEASURES	15. THE BED AND BANKS OF THE DISTURBED WATERCOURSES ARE TO BE IMMEDIATELY STABILIZED AFTER WORK IS COMPLETED.	
AND DAMAGE 24-HOUR AL OR MAN-	16 UNDERGROUND UTILITIES 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 OPERATION SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES ONT 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	1.
PIPE SYSTEM,	STABILIZATION. e. TEMPORARY AND PERMANENT SEEDING SCHEDULES ARE PROVIDED ON SHEET #2E(4),SEE TABLES 3.31B & 3.32D.	/2
ONE	17. A NOTE REQUIRING THE CLEANING OF ADJACENT TRAVELWAYS IS SHOWN ON THE PLAN, SEE STRUCTURAL PRACTICES - TEMPORARY CONSTRUCTION ENTRANCE 3.02 SEE SHEET #2E(1).	15
ERTOP	18. <u>A NOTE REQUIRING THE REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30</u> DAYS AFTER FINAL SITE STABILIZATION IS PROVIDED ON THE PLAN, SEE MAINTENANCE STRATEGIES-SEDIMENT & EROSION CONTROL	17
THAT ER WILL NOT	SEE SHEET #2E(1).	

I9. STORMWATER OUTFALL ADEQUACY WILL BE VERIFIED WITH THE SUBMISSION OF THE ROADWAY CONSTRUCTION PLANS AND DRAINAGE ER WILL BE CALCULATIONS.

EROSION & SEDIM

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BE MADE IO. SEDIMENT TF AND MULCHED

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

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16. TREE 3

FINAL GRADE WITHIN SEVEI FOR LONGER

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

17. ORANGE

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			REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
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ROSION	& SEDIMENT	CONTROL STANDARD NOTES:	-				
		PER MUST NOTIFY THE DEPA RT OF CONSTRUCTION IN ACCC					
WILLIA 10.01, C	M COUNTY PER CHAPTER 5,ART	DPER GRANTS THE RIGHT-OF-E RSONNEL FOR THE PURPOSE ( FICLE 4 OF THE CODE OF VIF RUCTION STANDARDS MANUAL S	OF INSPECTING A RGINIA,EROSION A	ND MONIT ND SEDIM	ORING FOR	COMPLIANCE WITH TITLE	
		OL MEASURES SHOWN ON THE DEPARTMENT OF PUBLIC WOR					
	PY OF THE AP. L TIMES.	PROVED EROSION AND SEDIME	NT CONTROL PLA	n and pe	ERMIT SHAL	l be kept on the site	
ADDIT						ATION OF ANY MENTATION AS DETERMINED BY	
	DISTURBING AG	AS ARE TO DRAIN TO APPROV CTIVITIES AND DURING SITE D					
WATE	r must be pu	IMPED INTO AN APPROVED FIL	TERING DEVICE	DURING D	EWATERING	OPERATIONS.	
THE THE	MINIMUM STANL VIRGINIA REGUL	EDIMENT CONTROL PRACTICES DARDS AND SPECIFICATIONS OF ATIONS VR 625-02-00 EROSIOF SIGN AND CONSTRUCTION STAN	F THE VIRGINIA N AND SEDIMENT	EROSION	AND SEDIME	ENT CONTROL HANDBOOK AND	
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EL MA RE EG	EVATION INDICA NNER THAT W GULARLY TO EN UIPMENT.EMER		DIMENT SHALL B. DIMENTATION PRO Y SOUND AND HA	E DISPOS OBLEMS.T AS NOT B	ED IN SUIT HE BASIN I EEN DAMAGI	ABLE AREAS AND IN SUCH A EMBANKMENT SHOULD BE CHECKE ED BY EROSION OR CONSTRUCTION	
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T C AN	ENSURE THE Y NECESSARY	ON AND STORM CONVEYANCE ( Y ARE FUNCTIONING PROPERLY REPAIRS OR CLEANUP TO MAII 'ATELY AFTER THE INSPECTIO	, AND THAT THE NTAIN THE EFFE	INTEGRI	Y OF THE		
		G MEASURES WILL BE INSTALL DIATELY FOLLOWING INSTALLATION		STEP IN	GRADING AN	ND WILL BE SEEDED	
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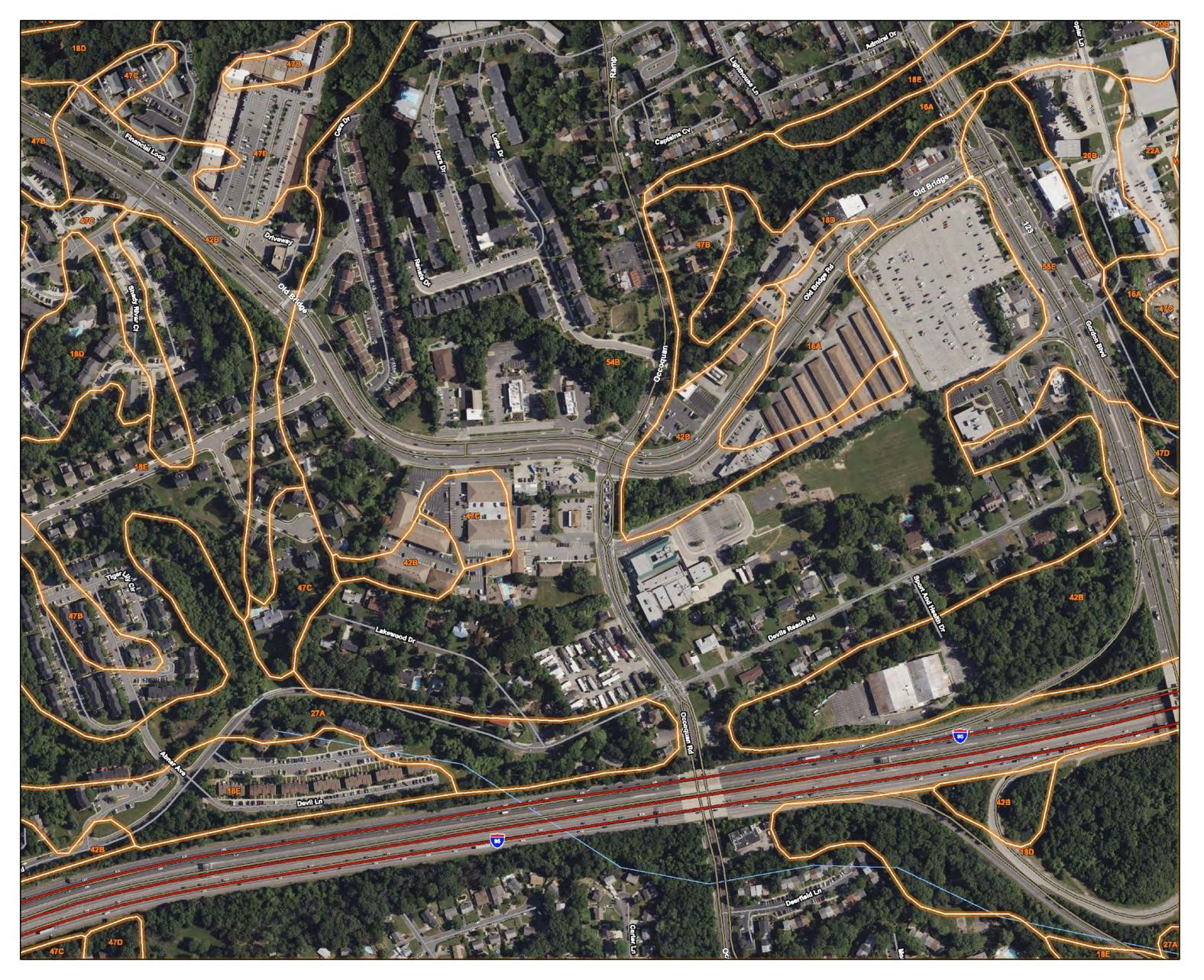
ID FLOODPLAIN LIMITS SHALL BE CLEARLY MARKED IN THE FIELD BY FLAGS, SIGNS, ETC. PLANS SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY ORANGE SAFETY FENCE.
SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY ORANGE SAFETY FENCE.
safety fence must be installed around all suit traps and sediment basins UNFINISHED
AND UNAPPROVED AND ARE NOT

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NZA	project 0641-076-301	SHEET NO. 2D(2)

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PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>

# PROJECT SOILS MAP Prince William County,Virginia



HYDRA	ULIC SOIL GROUP - SUMMARY BY MAI	P UNIT- PRI	NCE WILL
MAP UNIT SYMBO	MAP_UNIT_NAME	RATING	SURFA
16A	Delanco fine sandy loam, 0 to 4 percent slopes	C/D	SLC
18D	Dumfries sandy loam, 15 to 25 percent slopes	А	RAF
18E	Dumfries sandy loam, 25 to 50 percent slopes	А	VER
20B	Elsinboro sandy loam, 2 to 7 percent slopes	В	SLC
22A	Featherstone mucky silt loam, 0 to 1 percent slopes	B/D	VER
27A	Hatboro-Codorus complex, 0 to 2 percent slopes	B/D	SLO
42B	Neabsco-Quantico complex, O to 2 percent slopes	D	ME
47B	Quantico sandy loam, 2 to 7 percent slopes	В	ME
47C	Quantico sandy loam, 7 to 15 percent slopes	В	ME
47D	Quantico sandy Ioam, 15 to 25 percent slopes	В	VER
54B	Urban land-Udorthents complex, 0 to 7 percent slopes	VARIES	N/#
55E	Watt channery silt loam, 25 to 50 percent slopes	В	VEF
TOTALS FOR AREA	A OF INTEREST		-

### dll555302d(3).dgn Plotted By: jthompson

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			REVISE	D	STATE		-	STATE		SHEET NO.
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•	Johnson, Mirmiran Herndon, V HYDRAULIC El	irginia								
WILLIAM COUNTY	, VIRGINIA (VA153)									
RFACE RUNOFF	EROSION HAZARD	SHRINK/SWELL	FLOODING	K-VAL	UE	ACR	es ub aoi	PERCENT OF AOI		
SLOW	SLIGHT	MODERATE	RARE	?			14.3	4.40%		
RAPID	SEVERE	LOW	NONE	?			25.8	8.00%		
VERY RAPID	SEVERE	LOW	NONE	?			30.3	9.40%		
SLOW TO MEDIUM	MODERATE	LOW	RARE	?			4.4	1.40%		
VERY SLOW	SLIGHT	LOW	FREQUEN	Γ?			2.5	0.8%		
SLOW	SLIGHT	LOW	FREQUEN	- ?			14.6	4.50%		
MEDIUM	MODERATE	LOW-MODE	RANGONE	?			37.1	11.50%		
MEDIUM	MODERATE	MODERATE	NONE	?			8.7	2.70%		
MEDIUM	SEVERE	MODERATE	NONE	?			10.8	3.30%		
VERY RAPID	SEVERE	MODERATE	NONE	?			10.4	3.20%		
N/A	N/A	N/A	YES	N/A	A		154.1	47.8%		
VERY RAPID	SEVERE	LOW	NONE	?			9.6	3.00%		
	•						322.7	100.0%		

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NTS	project 0641-076-301	SHEET NO. 2D(3)

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### PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020\_\_ DESIGN BY \_\_\_\_\_\_\_ JMT (703) 464-7369 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020\_\_\_

### TABLE 3.31-C

TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES

	SEEDING I	RATE	N	IORTH	a	S	OUTH	łp	
SPECIES	Acre	1000 ft <sup>2</sup>	3/1 to 4/30	5/1 to 8/15	8/15 to 11/1	2/15 to 4/30	5/1 to 9/1	9/1 to 11/15	PLANT CHARACTERISTICS
OATS ( <u>Avena</u> <u>sativa</u> )	3 bu. (up to 100 lbs., not less than 50 lbs.)	2 lbs.	x	-	10 <u>1</u> 9	x	¥ ()	-	Use spring varieties (e.g., Noble).
RYE <sup>d</sup> ( <u>Secale</u> <u>cereale</u> )	2 bu. (up to 110 lbs., not less than 50 lbs.)	2.5 lbs.	х		х	х	-	x	Use for late fall seedings, winter cover. Tolerates cold and low moisture.
GERMAN MILLET ( <u>Setaria italica</u> )	50 lbs.	approx. 1 lb.	-	х	1	-	x		Warm-season annual. Dies at first frost. May be added to summer mixes.
ANNUAL RYEGRASS <sup>c</sup> (Lolium multi-florum)	60 lbs.	1½ lbs.	x	-	x	x	-	х	May be added in mixes. Will mow out of most stands.
WEEPING LOVEGRASS (Eragrostis curvula)	15 lbs.	5½ ozs.	-	x	-	•	x	-	Warm-season perennial. May bunch. Tolerates hot, dry slopes and acid, infertile soils. May be added to mixes.
KOREAN LESPEDEZA <sup>c</sup> (Lespedeza stipulacea)	25 lbs.	approx. 1½ lbs.	х	x	-	x	x	-	Warm season annual legume. Tolerates acid soils. May be added to mixes.

<sup>b</sup> Southern Piedmont and Coastal Plain.

<sup>c</sup> May be used as a cover crop with spring seeding.

May be used as a cover crop with spring seeding.
 May be used as a cover crop with fall seeding.
 X May be planted between these dates.
 May not be planted between these dates.

### TABLE 3.32-A CHARACTERISTICS OF COMMONLY SELECTED GRASSES

COMMON NAME (Botanical Name)	Life Cycle	Season	pH Range	Germination Time In Days	Optimum Germination Temperature (°F)	Winter Hardiness	Drought Tolerance	Fertility	Soil Drainage Tolerance	Seeds Per Pound	MAINTENANCE REQUIREMENTS	REMARKS	Suggested Varieties for Virginia
TALL FESCUE (Festuca arundinacea)	Р	с	5.5- 6.2	10-14	60-85	F	F	м	SPD	225K	Low when used for erosion control; high when used in lawn	Better suited for erosion control and rough turf application.	Ку 31
TALL FESCUES (Improved)	Р	с	5.5- 6.2	10-14	60-85	F	G	м	SPD	220K	Responds well to high maintenance.	Excellent for lawn and fine turf.	See current VCIA list.
KENTUCKY BLUEGRASS (Poa pratense)	Р	с	6.0- 6.5	14	60-75	G	Р	м	SPD	2.2m	Needs fertile soil, favorable moisture. Requires several years to become well established.	Excellent for fine turfs-takes traffic, mowing. Poor drought/heat tolerance.	See current VCIA list.
PERENNIAL RYEGRASS (Lolium perenne)	Р	с	5.8- 6.2	7-10	60-75	F	F	м-н	SPD	227K	Will tolerate traffic.	May be added to mixes. * Improved varieties will perform well all year.	See current VCIA list.

					CHAR/	ACTER				Continued		GRASSES		
	ON NAME cal Name)	Life Cycle	Season	pH Range	Germination Time, In Days	Optimum Germination Temperature (°F)	Winter Hardiness	Drought Tolerance	Fertility	Soil Drainage Tolerance	Seeds Per Pound	MAINTENANCE REQUIREMENTS	REMARKS	Suggested Varieties for Virginia
	HARD FESCUE (Festuca Longifolia)	Р	с	5.0- 6.2	10- 14	60- 80	VG	G	L	MWD	400K	Grows well in sun or shade and will tolerate infertile soils; improved disease resistance.	Exceeds all fine fescues in most tests. Excellent for low-maintenance situations.	Reliant, Spartan, Aurora
FINE FESCUES	CHEWINGS FESCUE	Р	с	5.0- 6.2	10- 14	60- 80	VG	G	L	MWD	400K	Tolerates shade, dry infertile soils.	Poor traffic tolerance, less thatch than other fine fescues.	Flyer
	RED FESCUE (Festuca Rubra)	P	с	5.0- 6.2	10- 14	60- 80	VG	G	L	MWD	400K	Low to medium fertility requirements. Requires well-drained soil.	Spreads by rhizomes, tillers and stolons. Will not take traffic - very shade tolerant.	Long- fellow, Victory
REED CANA (Phalaris aru		Р	с	5.8- 6.2	21	70- 85	G	G	м-н	VPD	530K	Do not mow closely or often.	Conservation cover in wet areas.	No named varieties

A = AnnualP = PerennialC = Cool Season PlantW = Warm Season PlantG = GoodF = FairP = PoorVP = Very PoorH = HighM = MediumL = LowSPD = Somewhat Poorly DrainedMPD = Moderately Poorly DrainedPD = Poorly DrainedVPD - Very Poorly Drained

# TEMPORARY SEEDING TABLES

			CH	ARACTE	RISTIC	BLE 3	COMN	IONLY	SELECTE	D GRAS	SES		
COMMON NAME (Botanical Name)	Life Cycle	Season	pH Range	Germination Time, In Days	Optimum Germination Temperature (°F)	Winter Hardiness	Drought Tolerance	Fertility	Soil Drainage Tolerance	Seeds Per Pound	MAINTENANCE REQUIREMENTS	REMARKS	Suggested Varietics for Virginia
REDTOP (Agrostis alba)	Р	С	5.8- 6.2	10	65-85	G	F	L	PD	5m	Will tolerate poor, infertile soils; deep rooted.	Does well in erosion control mixes - not for lawns.	No named varieties.
WEEPING LOVEGRASS (Evagrostis curvula)	Р	w	4.5- 6.2	14	65-85	F-P	G	L-M	SPD	1.5m	Low-fertility requirements; excellent drought tolerance.	Fast-growing, warm-season bunch grass. Excellent cover for erosion control.	No named varieties.
BERMUDAGRASS (Cynodon dactylon)	Р	w	5.8- 6.2	21	70-95	Р	G	м-н	SPD	1.8m hulled	High nitrogen utilization, excellent drought tolerance. Some varieties adapted to western VA.	Common varieties used for erosion control. Hybrids used for fine turf.	See current VCIA list.
ORCHARDGRASS (Dactylis glomerata)	Р	с	5.8- 6.2	18	60-75	F	F	м	SPD	625K	Does best on well- drained, loamy soil.	Good pasture selection - may be grazed.	Virginia origin or Potomac

TABLE 3.32-A (Continued) CHARACTERISTICS OF COMMONLY SELECTED GRASSES

COMMON NAME (Botanical Name)	Life Cycle	Season	pH Range	Germination Time In Days	Optimum Germination Temperature (°F)	Winter Hardiness	Drought Tolerance	Fertility	Soil Drainage Tolerance	Seeds Per Pound	MAINTENANCE REQUIREMENTS	REMARKS	Suggested Varieties for Virginia
ANNUAL RYEGRASS (Lolium multiflorum)	А	с	5.8- 6.2	7	60-70	G	Р	м-н	SPD	227K	Will grow on most Virginia Soils. Do not use in fine-turf areas.	May be added into mixes or established alone as temporary cover in spring and fall.	No named varieties.
RYE (Secale cereale)	A	с	5.8- 6.2	7	55-70	VG	G	L-M	SPD	18K	Will establish in most all Virginia soils. Do not use in fine-turf areas.	May be added into mixes or established alone for late fall/winter cover.	Abruzzi, Balboa
FOXTAIL MILLET (Setaria italica)	A	w	5.8- 6.2	10	65-85	VP	G	М	MWD	220K	Establishes well during summer. Very low moisture requirements.	May be added to erosion-control mixes or established alone.	Common, German

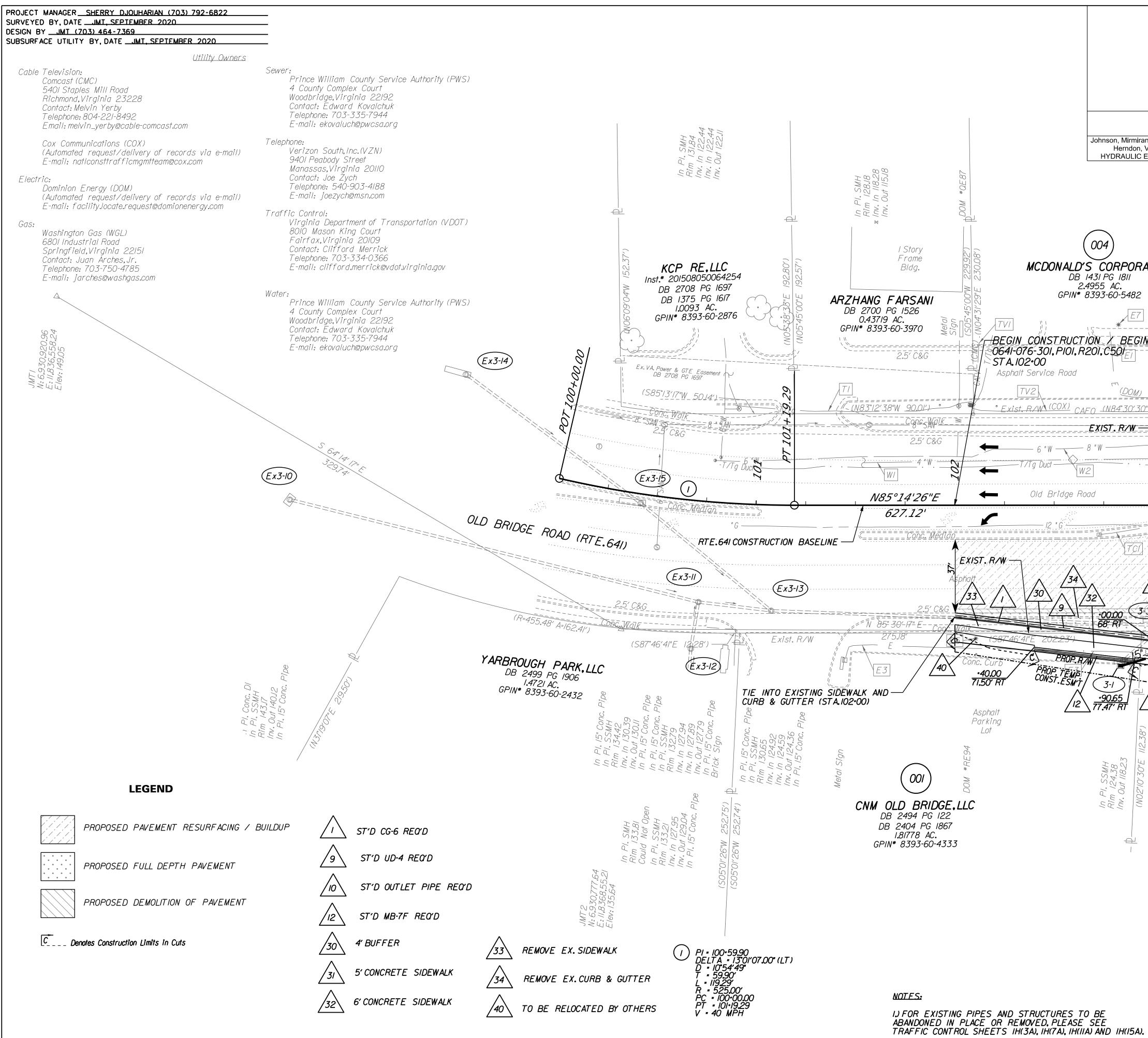
KEY

A = AnnualP = PerennialC = Cool Season PlantW = Warm Season PlantG = GoodF = FairP = PoorVP = Very PoorH = HighM = MediumL = LowSPD = Somewhat Poorly DrainedMPD = Moderately Poorly DrainedPD = Poorly DrainedVPD = Very Poorly Drained

### dll555302d(4),dgn Plotted By: jthompson

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		5.2 to 6		1 ton per	acre	
	Sourc	e: Va. DS	SWC			_
				TABLE 3.31-B		7
				RARY SEEDING PLANT		
		"Q	UICK REFE	RENCE FOR ALL REGIO		
	Plant	ing Dates		Species	Rate <u>(lbs./acre)</u>	
	Sept.	1 - Feb. 15		/50 Mix of		
				nnual Ryegrass <u>olium multi-florum)</u> &	50 - 100	
	×			ereal (Winter) Rye ecale cereale)		
	Feb. 1	6 - Apr. 30		nnual Ryegrass <u>olium multi-florum</u> )	60 - 100	
	May 1	- Aug 31		erman Millet	50	
			( <u>S</u>	etaria italica)		
	Source: V	a. DSWC				
	s	ITE SPECIF		FABLE 3.32-D G MIXTURES FOR PIED	MONT AREA	
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		<ul> <li>mercial or R</li> <li>Kentucky 3</li> <li>Improved F</li> <li>Kentucky B</li> </ul>	1 or Turf-Ty Perennial Ry	pe Tall Fescue egrass	175-200 lb 95-1009 0-59 0-59	76 76
		faintenance L			200-250 lb	
		<ul> <li>Kentucky 3</li> </ul>	1 or Turf-Ty	pe Tall Fescue	1009	76
		ll Slope (3:1 c	18 - 18 			~
	10	<ul> <li>Kentucky 3</li> <li>Red Top G</li> <li>Seasonal N</li> </ul>	rass		128 lb 2 lb _20 lb	s.
	121	aintenance Sl	nagan salating	r than 3:1)	150 lb	
		- Kentucky 3	1 Fescue		108 lb 2 lb	00.05 (.5)
		<ul> <li>Red Top C</li> <li>Seasonal N</li> <li>Crownvetch</li> </ul>	urse Crop *		20 lb 20 lb	95. 9 <u>5.</u>
				cordance with seeding date		
		May 1st throu August 16th t	ugh August 1 through Octo	5th bber ary 15th	Foxtail Mill	et ye
	throug If Flat	h September bea is used in	use hulled S lieu of Crow	for Crownvetch east of ericea, all other periods, unvetch, increase rate to 30	ise unhulled Sericea lbs./acre. All legun	1). – ne
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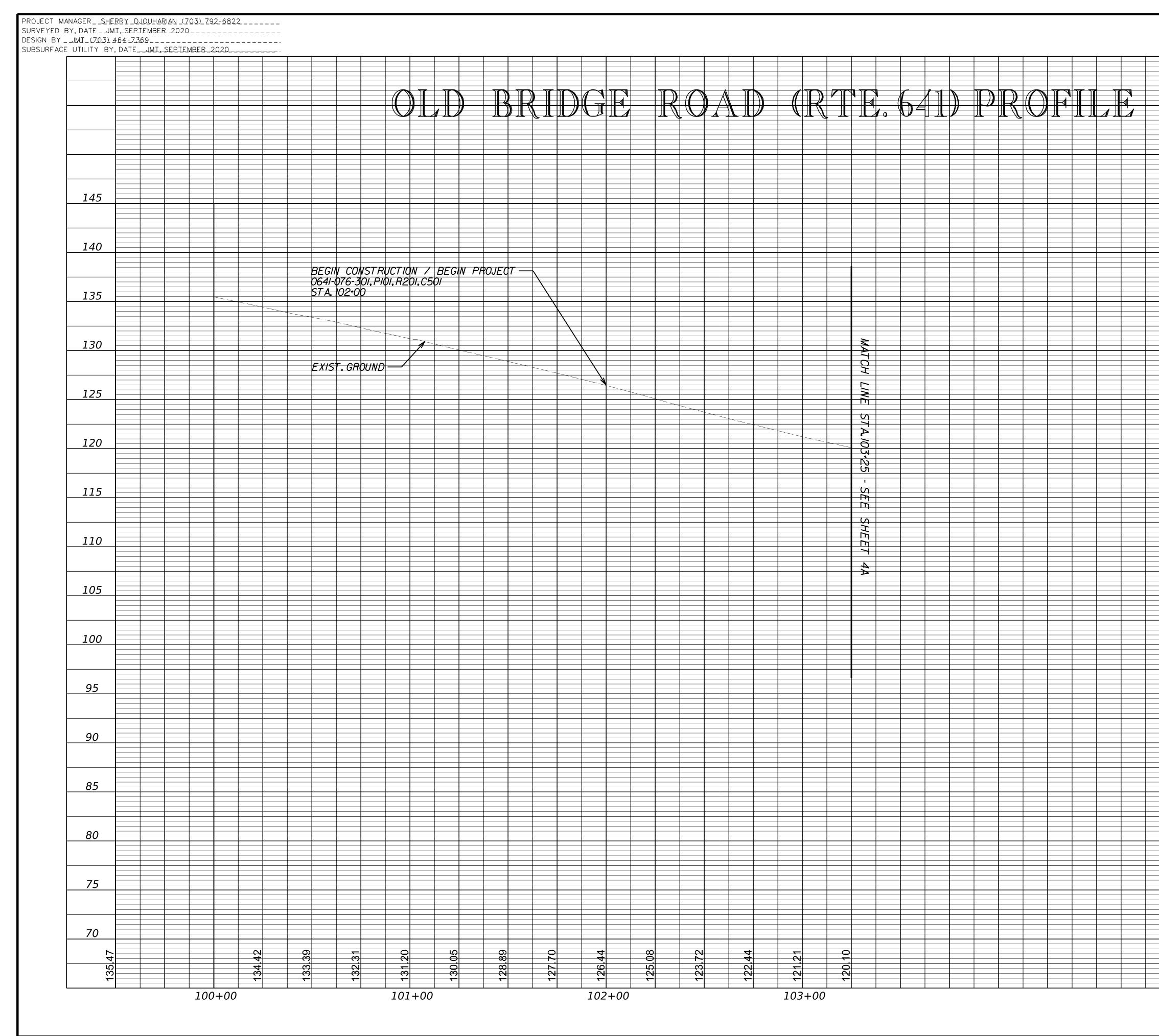
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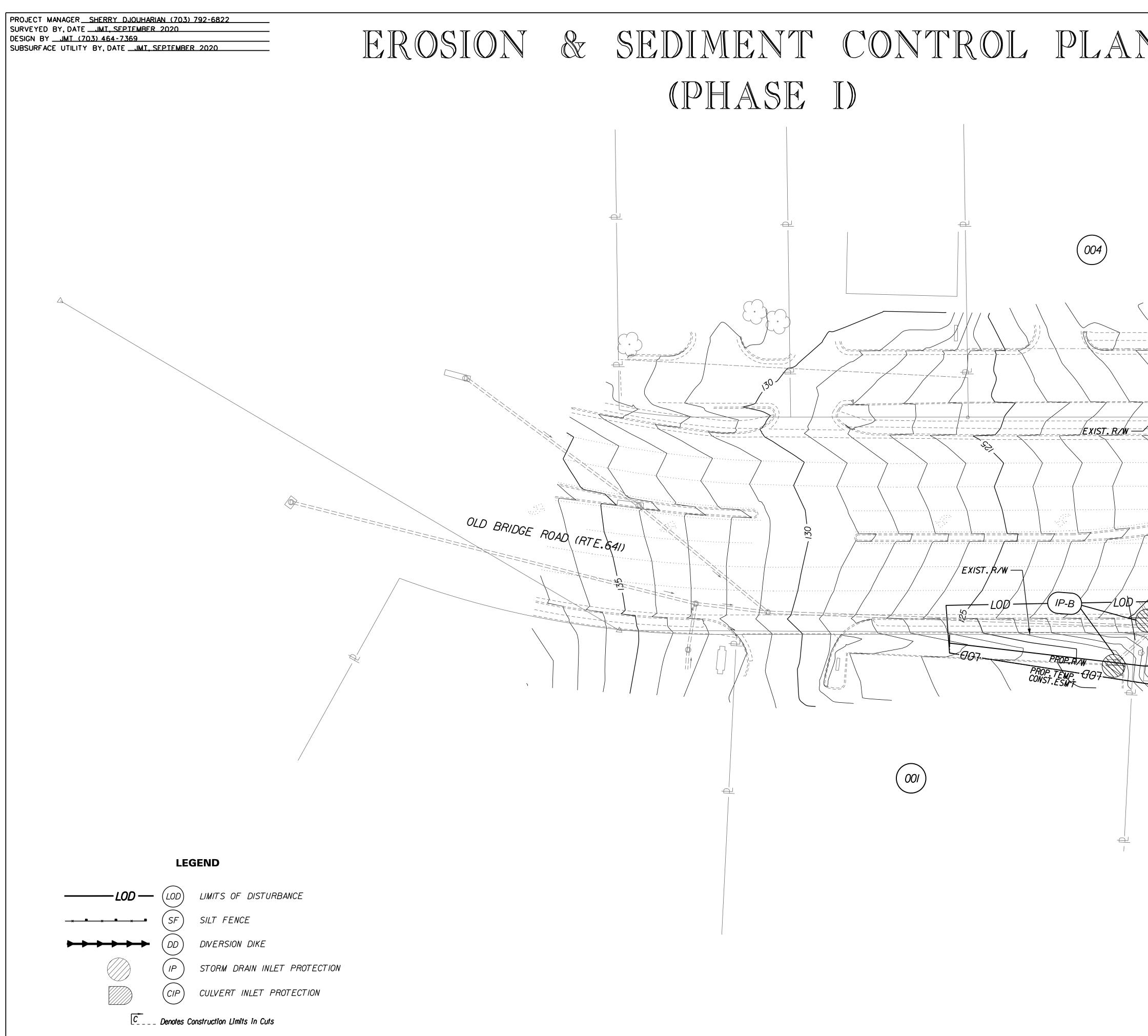


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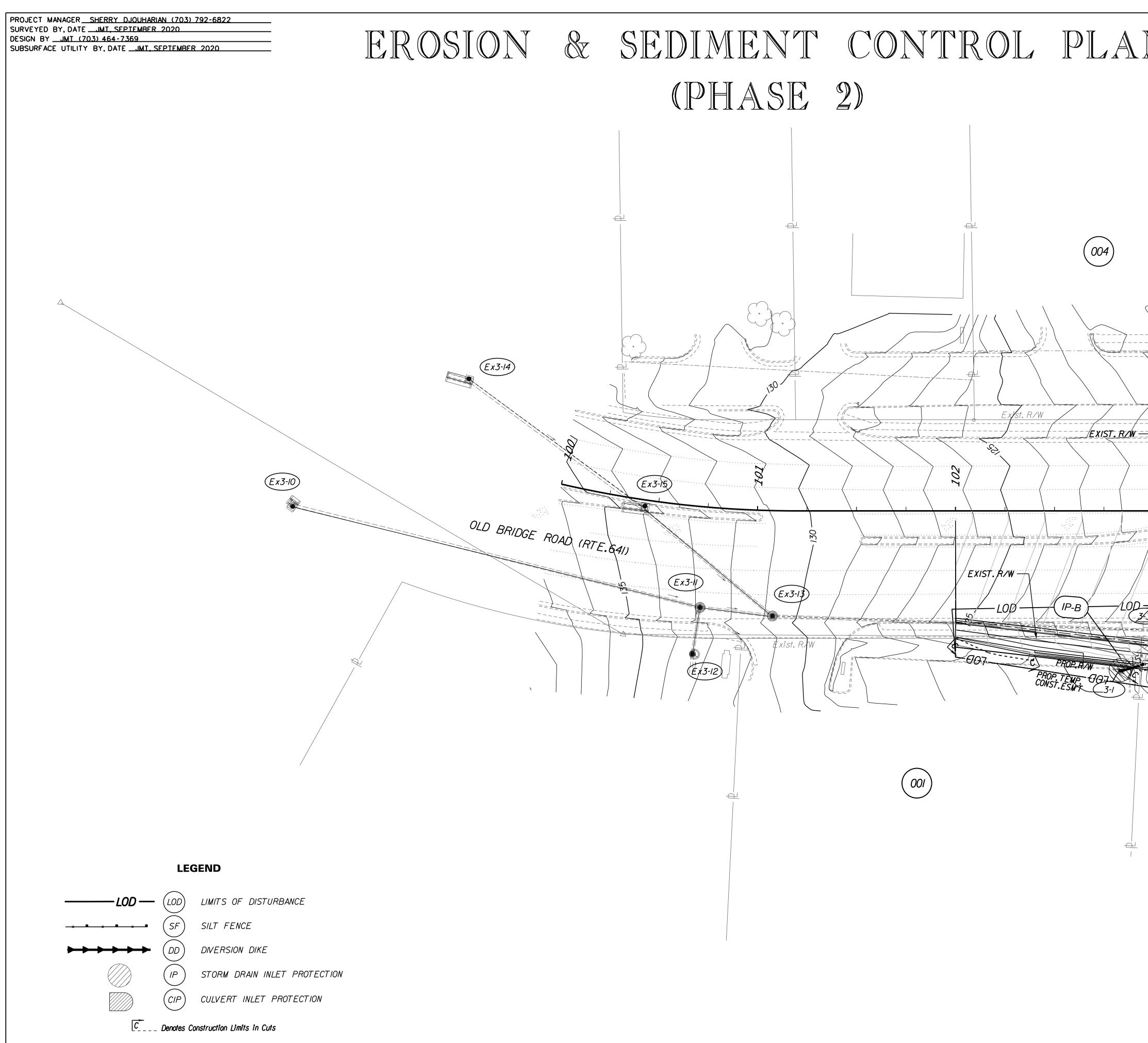
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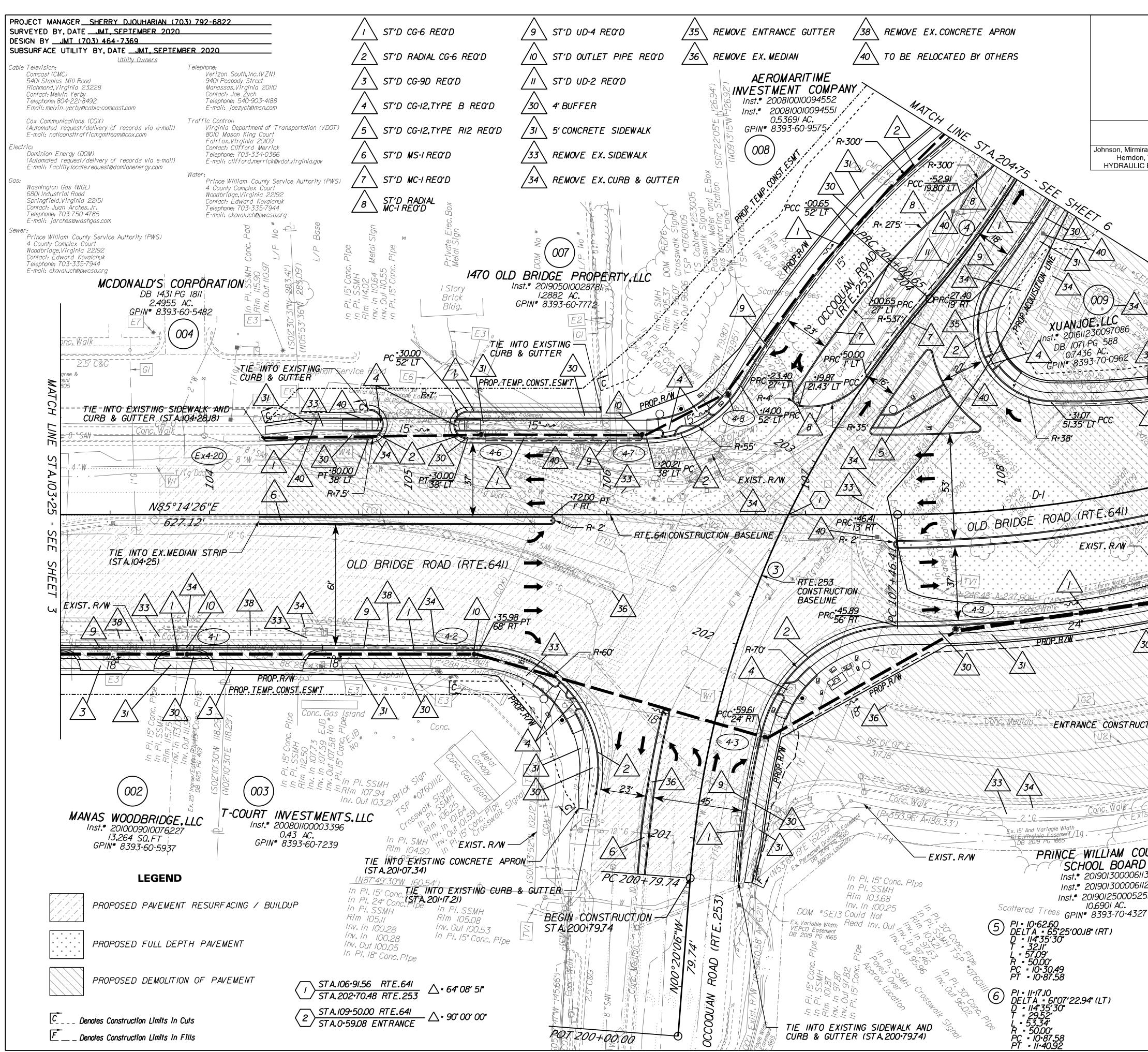
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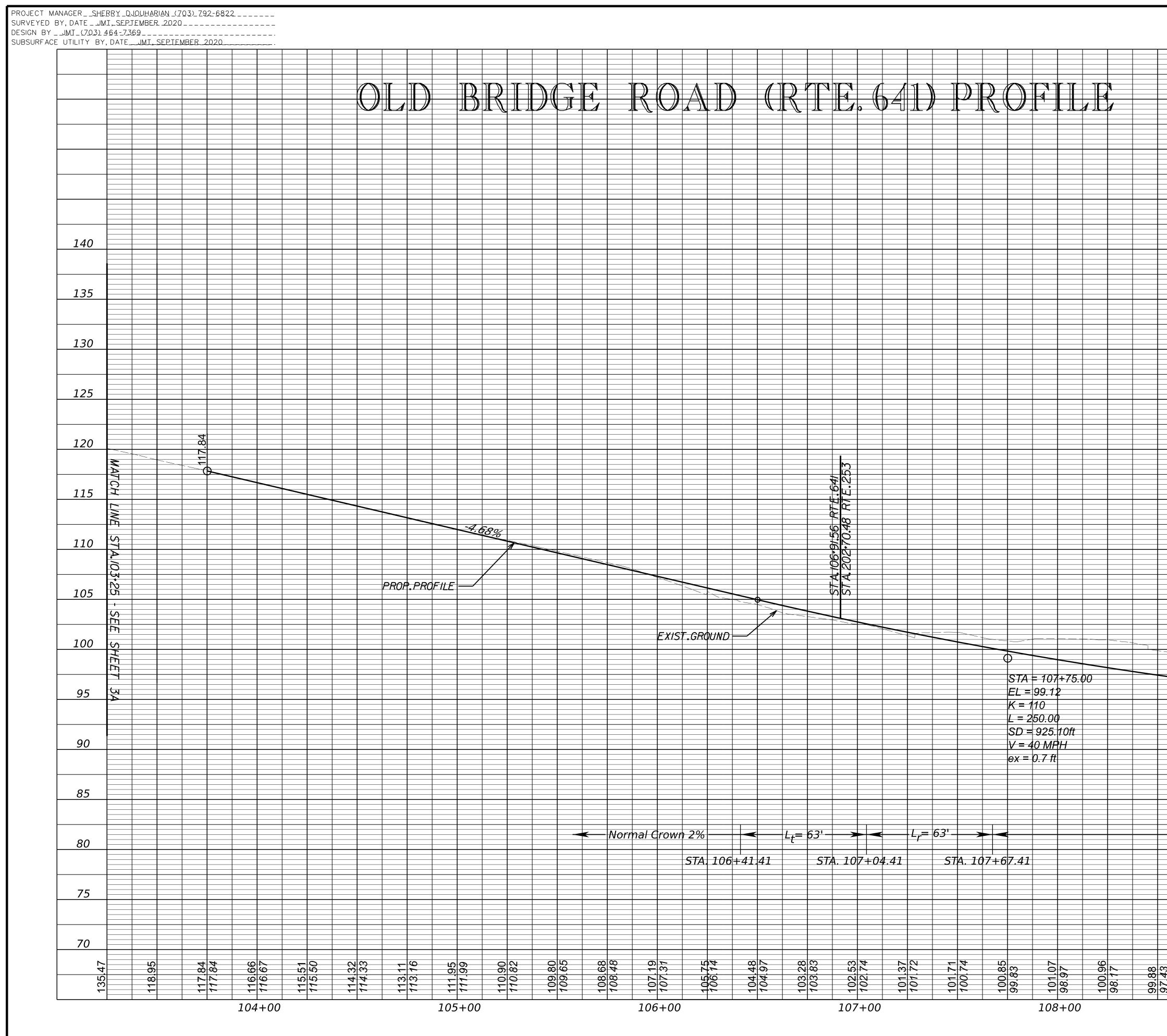
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iran & Thompson Johnson, Mirmiran & Thompson n, Virginia Herndon, Virginia C ENGINEER ROADWAY ENGINEER	I.) FOR EX	D IN PLA	ACE OR	D STRUCTURES TO BE REMOVED, PLEASE SEE IH(4A), IH(8A), IH(12A) AND	
200 11 / 1010 200 11 / 1010 200 11 / 1010 200 10 / 1010 200 / 1010 200 10 / 100 200 / 100 / 100 200 / 100 / 100	OIO 			PI = 110-18.07 DELTA = 48*43'08 D = 09*32'57" T = 271.66' L = 510.18' R = 600.00' PC = 107*46.41 PT = 112*56.59 e = 2.0% V = 40 MPH Lr = 63 Lt = 63	3 <b>.37"</b> (LT)
R=350 <sup>°</sup>	34 R-6	110		$\begin{array}{c} FI = 202 \cdot 45.7I \\ \hline O \\ FI = 202 \cdot 45.7I \\ DELT A = 36 \cdot 03' I0 \\ D = II'14'04'' \\ T = 165.97' \\ L = 320.9I' \\ R = 5I0.00' \\ PC = 200 \cdot 79.74 \\ PT = 204 \cdot 00.65 \\ e = 2%  NORMAL (C) \\ V = 35  MPH \end{array}$	
	10 <sup>(2)</sup> 552 560 12 10 12 10 12 10 12 10 12 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10		/34 T. R/W 96.86 56' RT	SEE	
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REFERENCES		( 1	60	% PLANS	
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DRAIN DESCR. 2B(I) - 2	2 <b>B(2)</b>	SCALE 25'	Ę	PROJECT 0641-076-301	SHEET NO. <b>4</b>

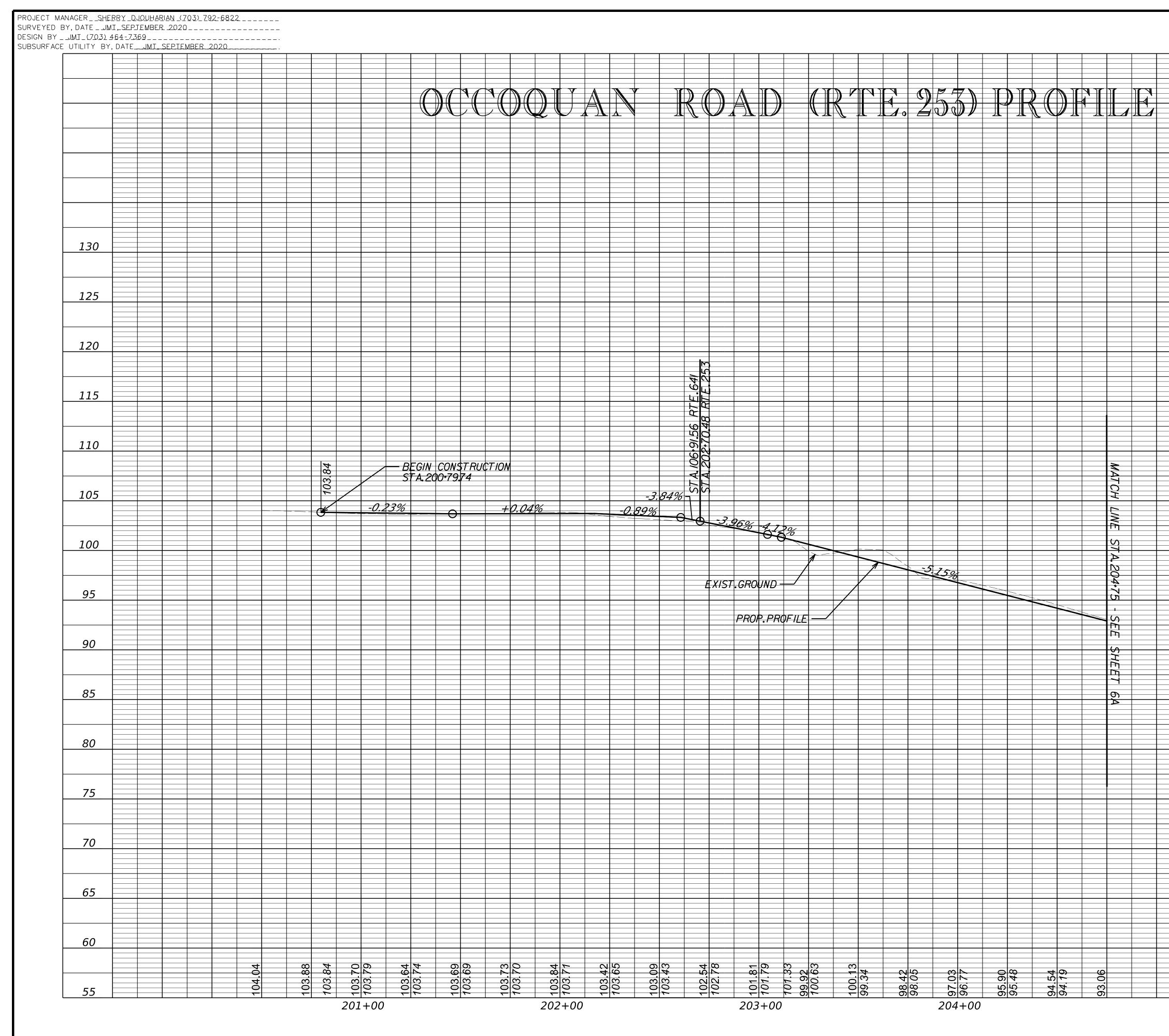
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### d11555304a(1).dgn Plotted By: jthompson

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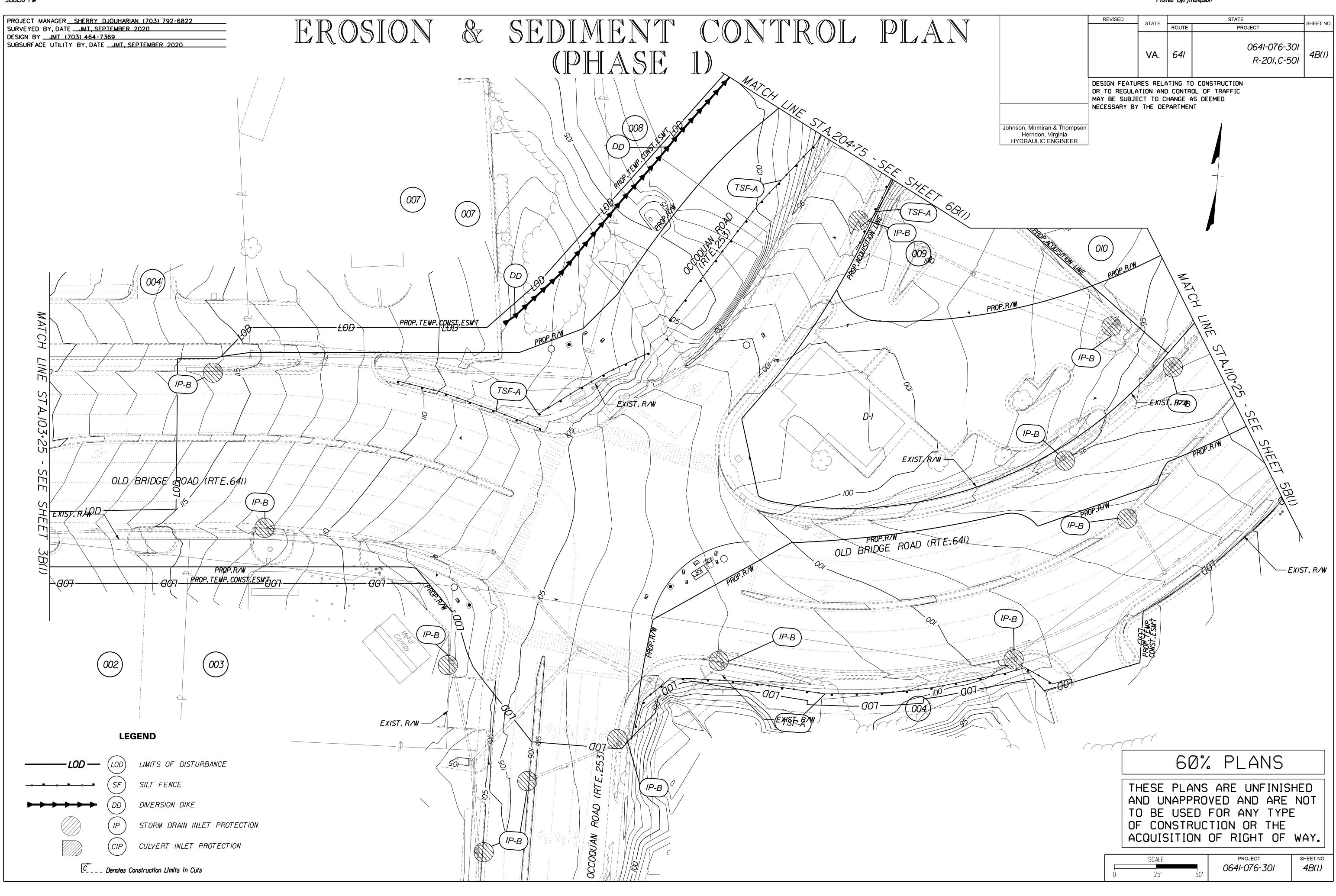
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### dll555304a(2).dgn Plotted By:jthompson

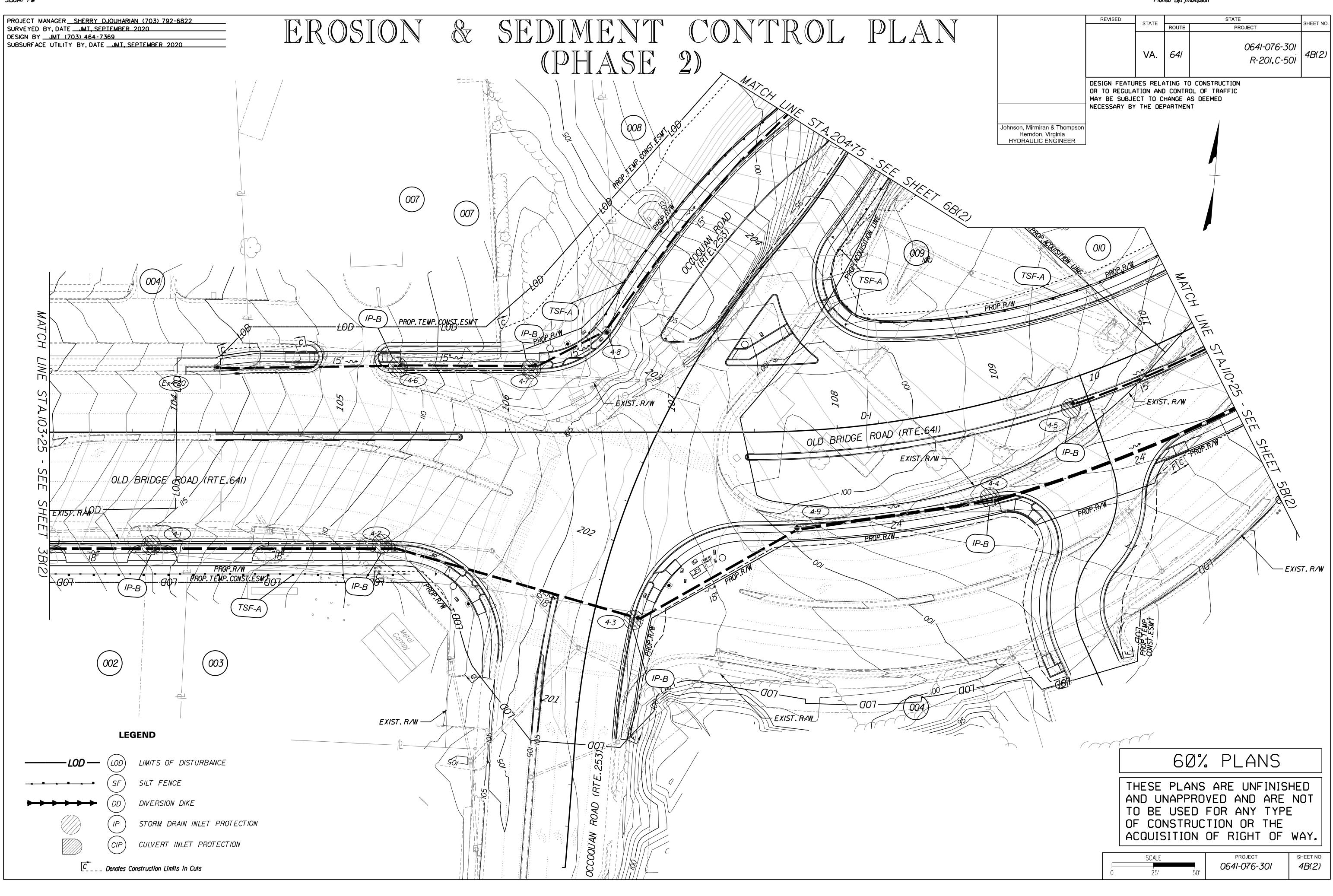
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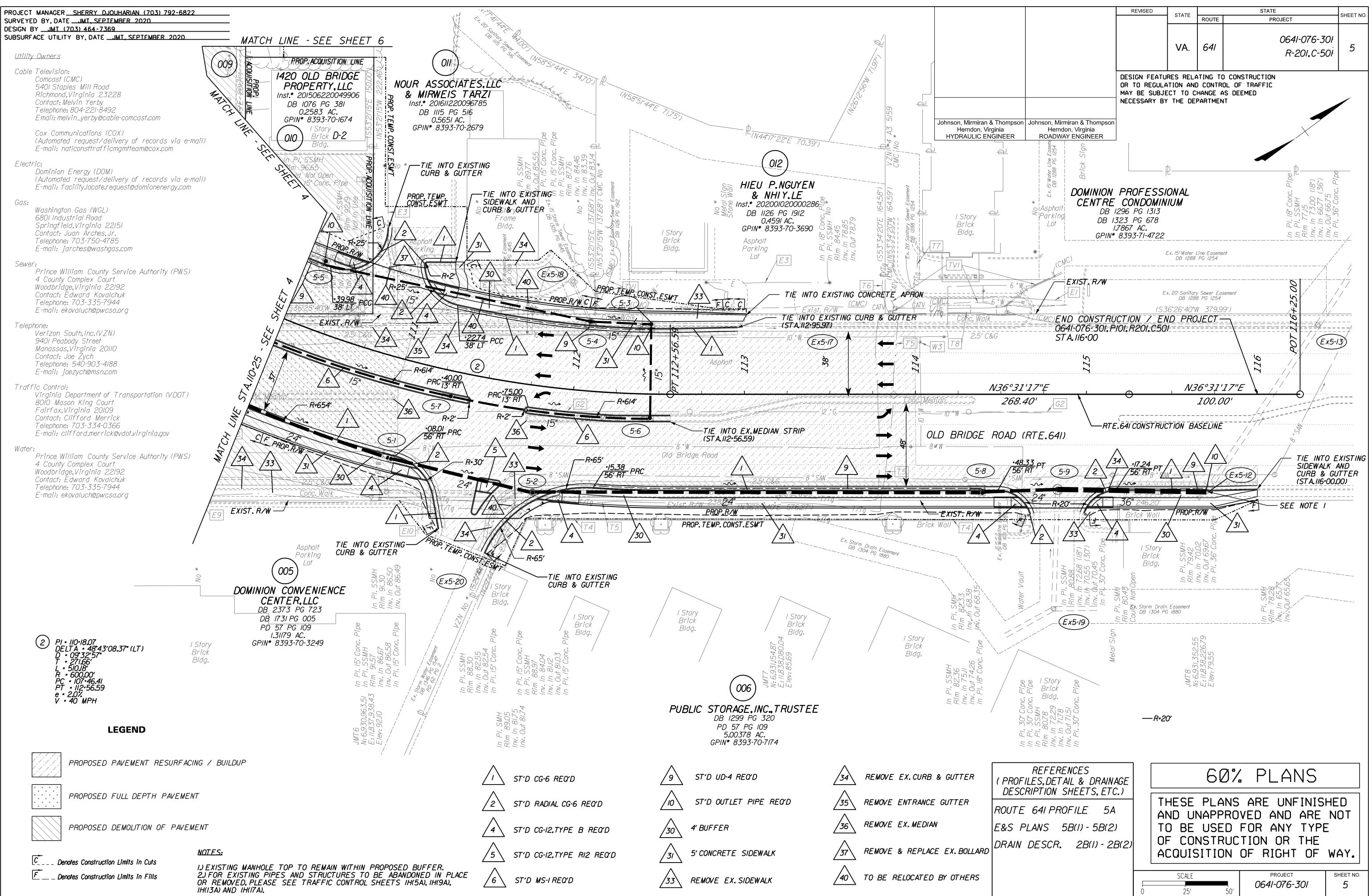
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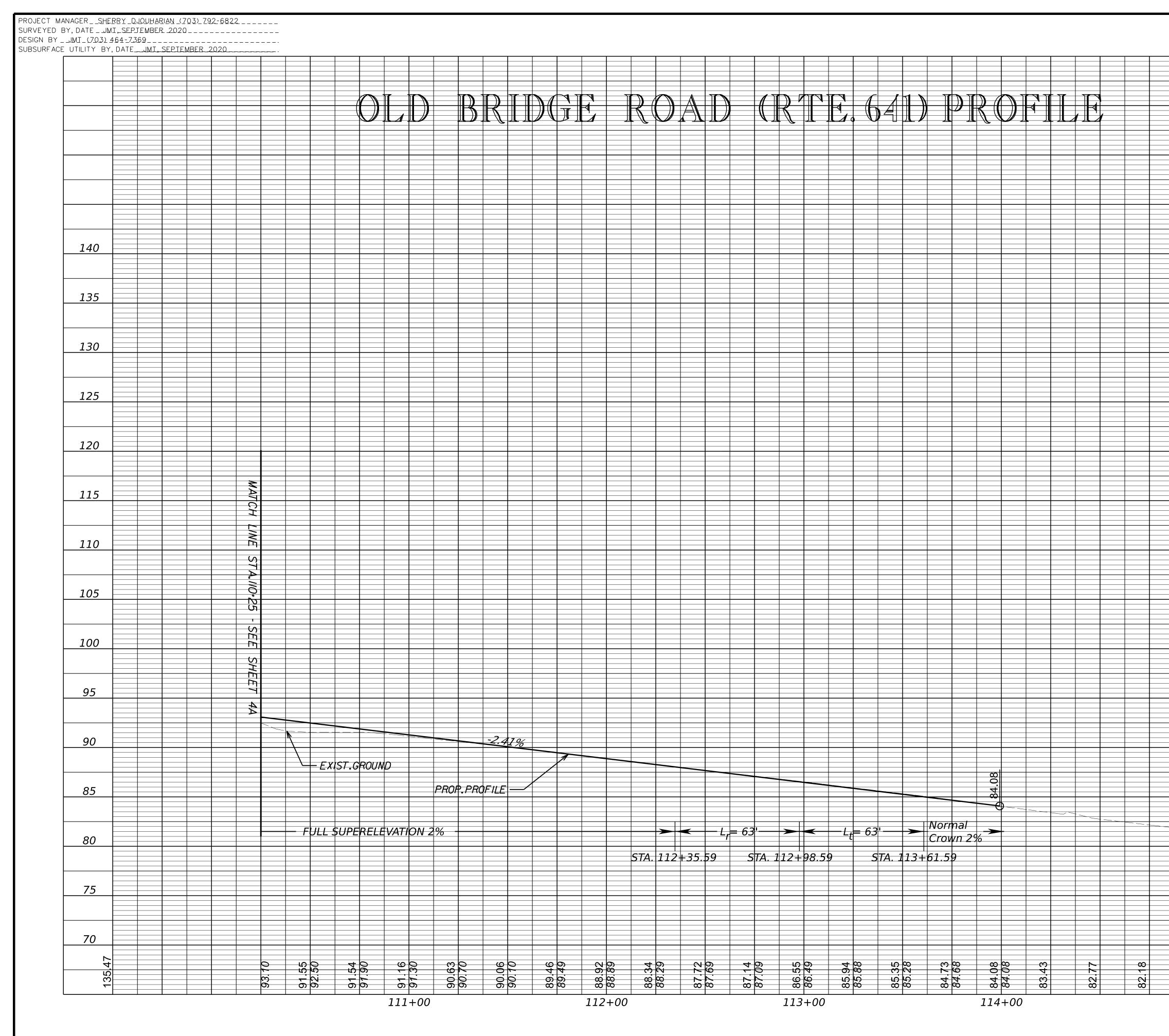
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dll555305.dgn Plotted By: jthompson

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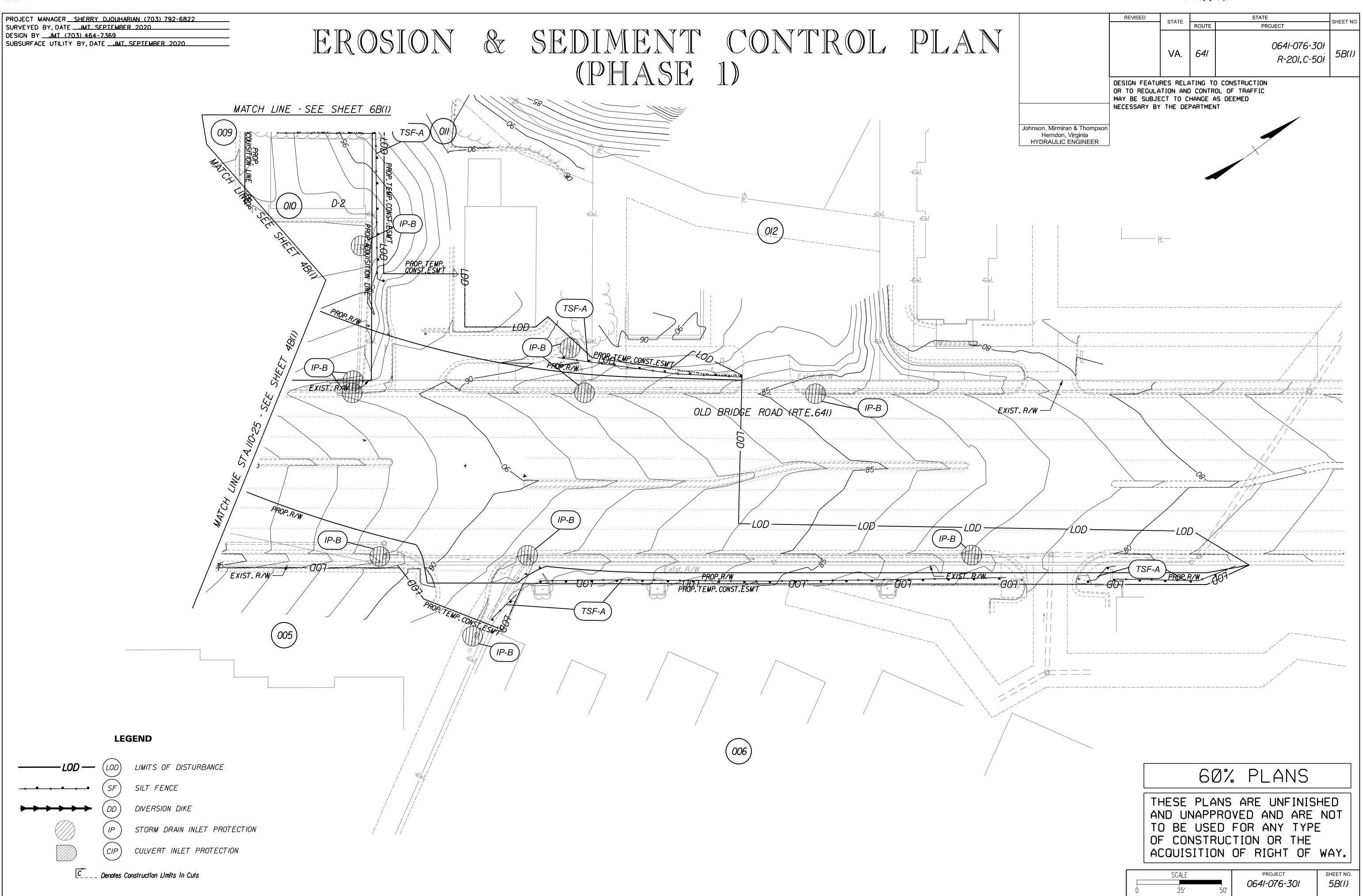


## dll555305a.dgn

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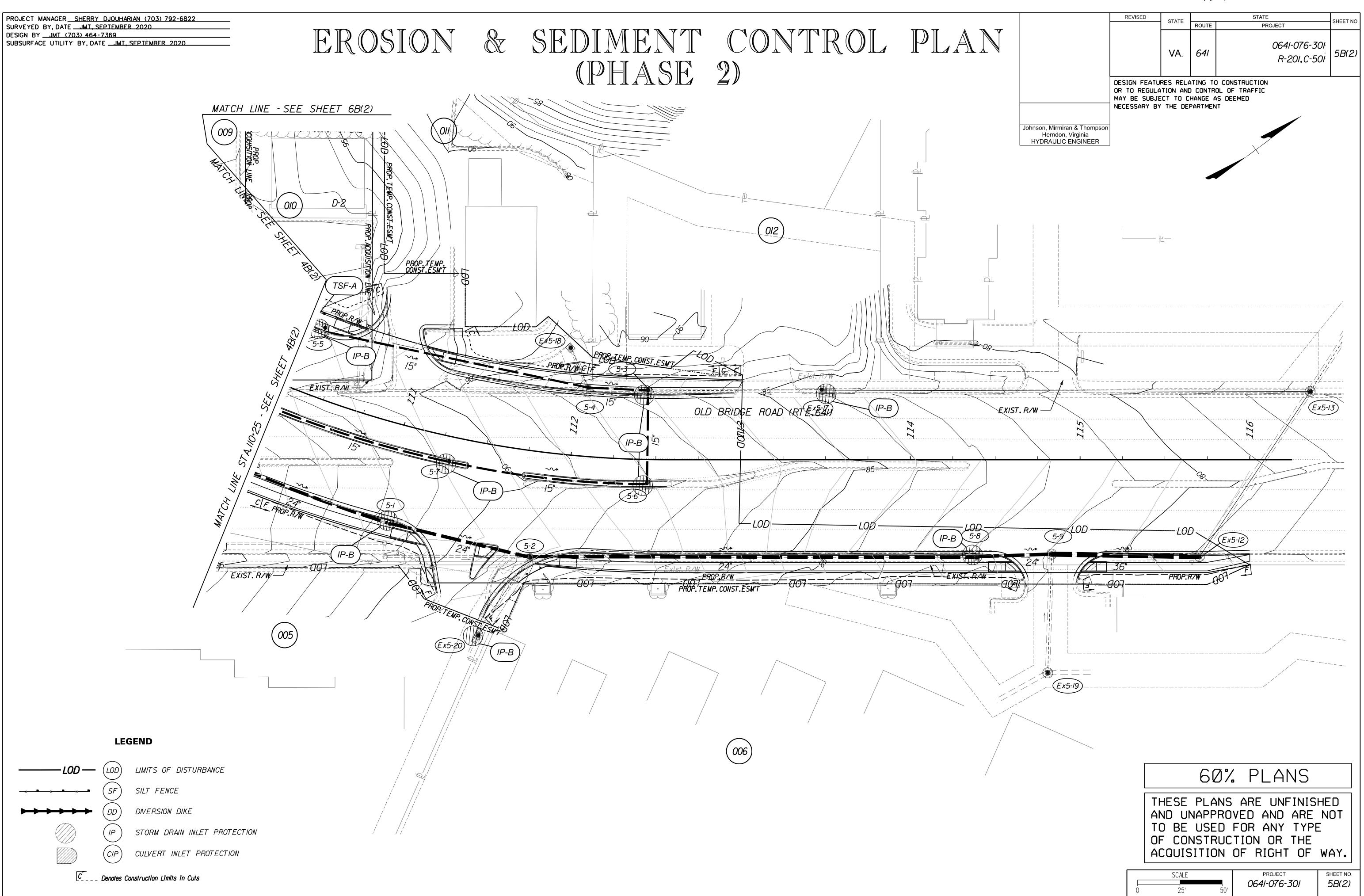
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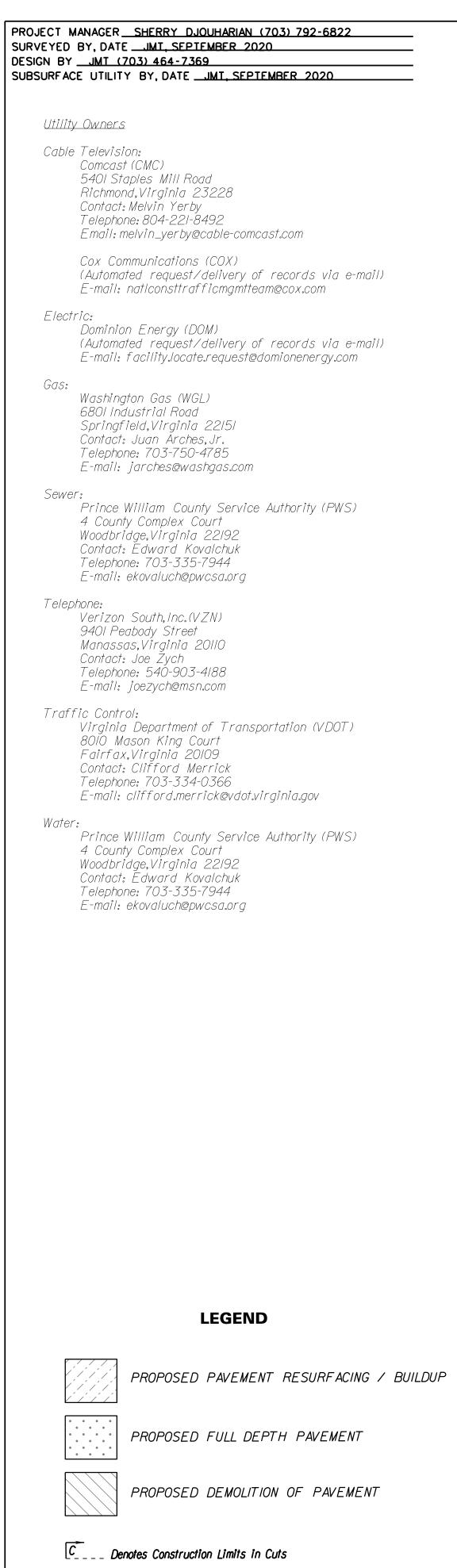
dll555305b(l).dgn Plotted By: jthompson

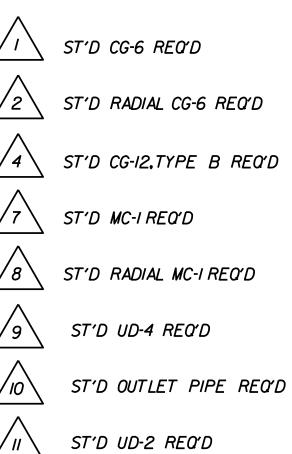
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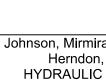


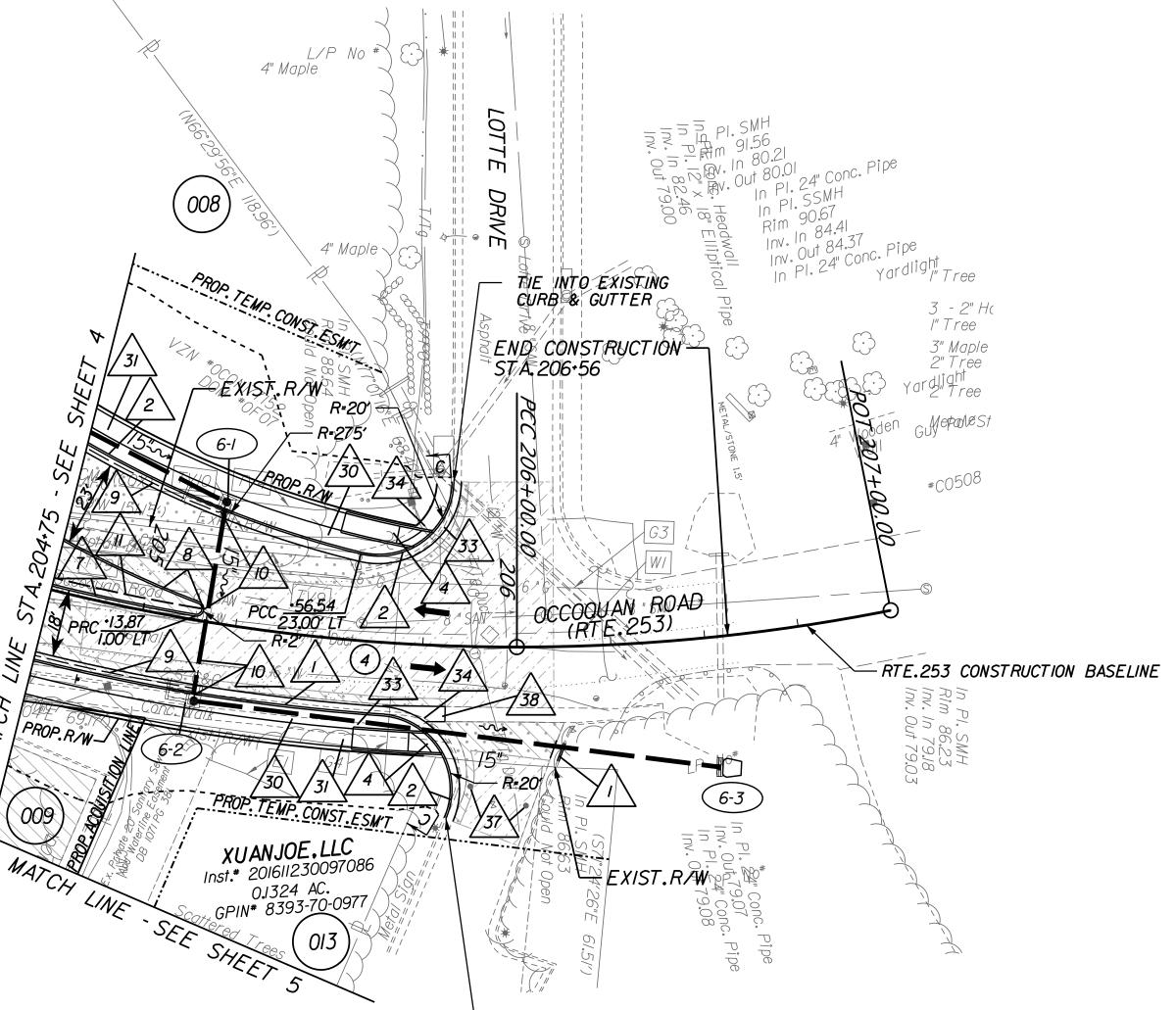
dll555305b(2),dgn Plotted By: jthompson

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TIE INTO EXISTING CURB & GUTTER

CG-6 REQD	30	4' BUFFER	PI = 205*01.61 DELTA = 22*23'42.07" (LT) D = 11°14'04" T = 100.96'
RADIAL CG-6 REQD	31	5' CONCRETE SIDEWALK	L = 199.34' R = 510.00' PC = 204.00.65 PT = 206.00.00
CG-12,TYPE B REC'D	33	REMOVE EX. SIDEWALK	e = 2% NORMAL CROWN V = 35MPH
MC-I REQ'D	34	REMOVE EX.CURB & GUTTER	
RADIAL MC-I REO'D	37	REMOVE & REPLACE EX. BOLLARD	
UD-4 REQD	38	REMOVE & REPLACE ENTRANCE GUTTER IN KIND	
OUTIFT PIPF REOD			NOTEC

NOTES:

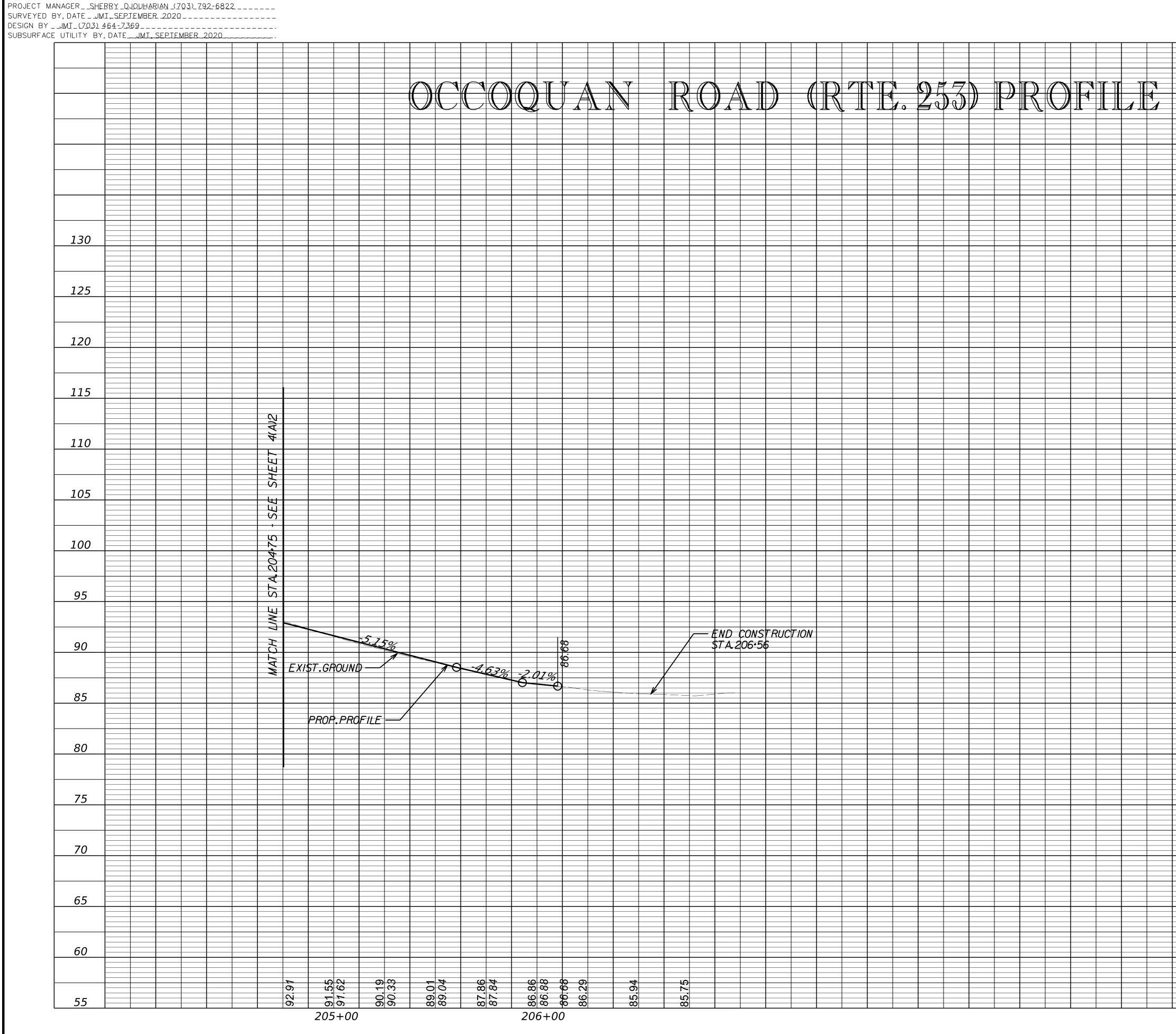
I.) FOR EXISTING PIPES AND STRUCTURES TO BE ABANDONED IN PLACE OR REMOVED, PLEASE SEE TRAFFIC CONTROL SHEETS IH(6A), IH(10A), IH(14A) AND IH(18A).

### dll555306.dgn Plotted By: jthompson

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		REVISED	STATE		STATE	SHEET NO.
			OINTE	ROUTE	PROJECT	ONEET NO.
			VA.	641	0641-076-30ł R-201,C-50ł	6
			TION AND	) CONTRI HANGE A		
iran & Thompson n, Virginia IC ENGINEER	Johnson, Mirmiran & Thompson Herndon, Virginia ROADWAY ENGINEER					

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	60% PLANS
ROUTE 253 PROFILE 6A E&S PLANS 6B(1) - 6B(2) DRAIN DESCR. 2B(1) - 2B(2)	THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.
	SCALE         PROJECT         SHEET NO           0         25'         50'         0641-076-301         6

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# d11555306a.dgn

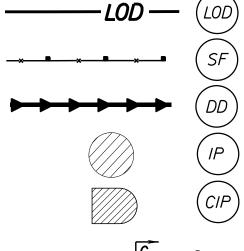
Plotted By: jthompson

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· · ·	<b>i</b>	· ·					SCALE					JECT S	
					0		25'		50'	0	64I-C	076-301	6:A

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020 DESIGN BY \_\_JMT (703) 464-7369 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020

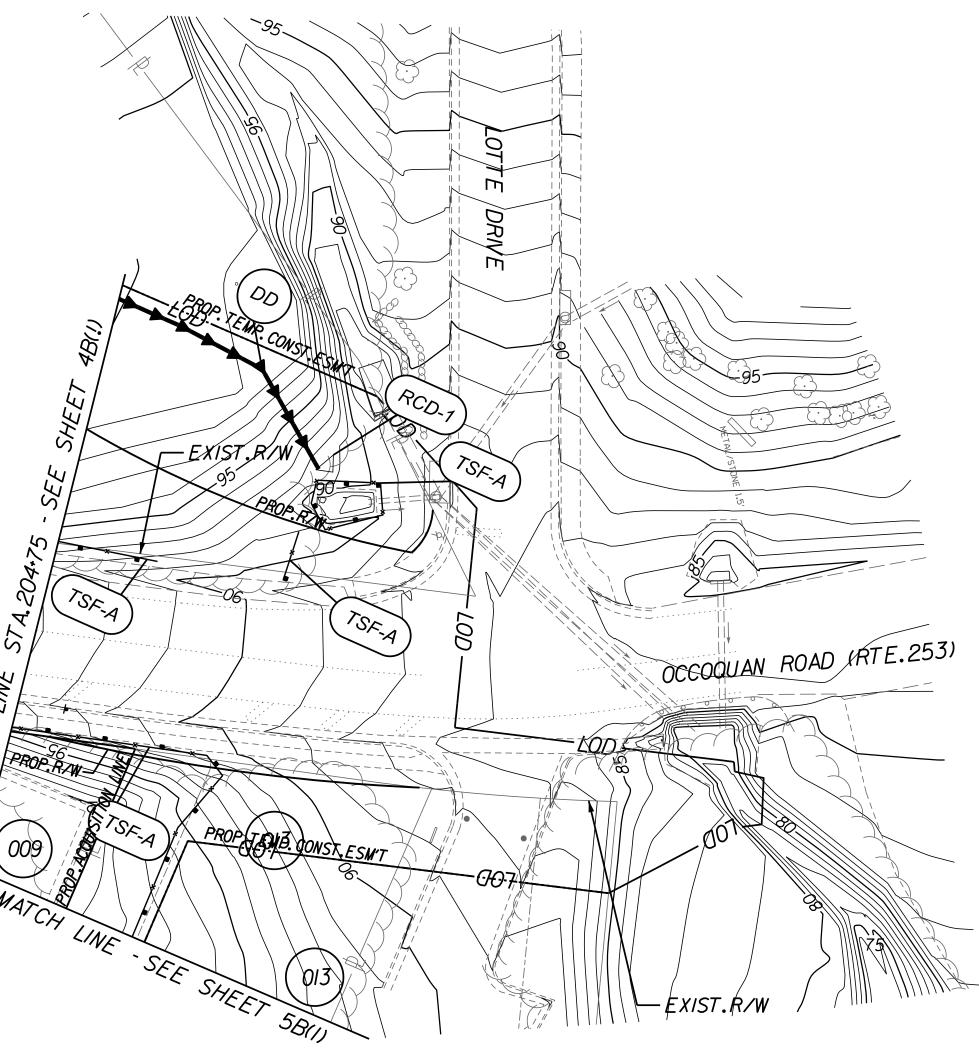
# LEGEND



-LOD - (LOD) LIMITS OF DISTURBANCE SILT FENCE DIVERSION DIKE STORM DRAIN INLET PROTECTION (CIP) CULVERT INLET PROTECTION

C\_\_\_\_ Denotes Construction Limits in Cuts

# EROSION & SEDIMENT CONTROL PLAN (PHASE 1)



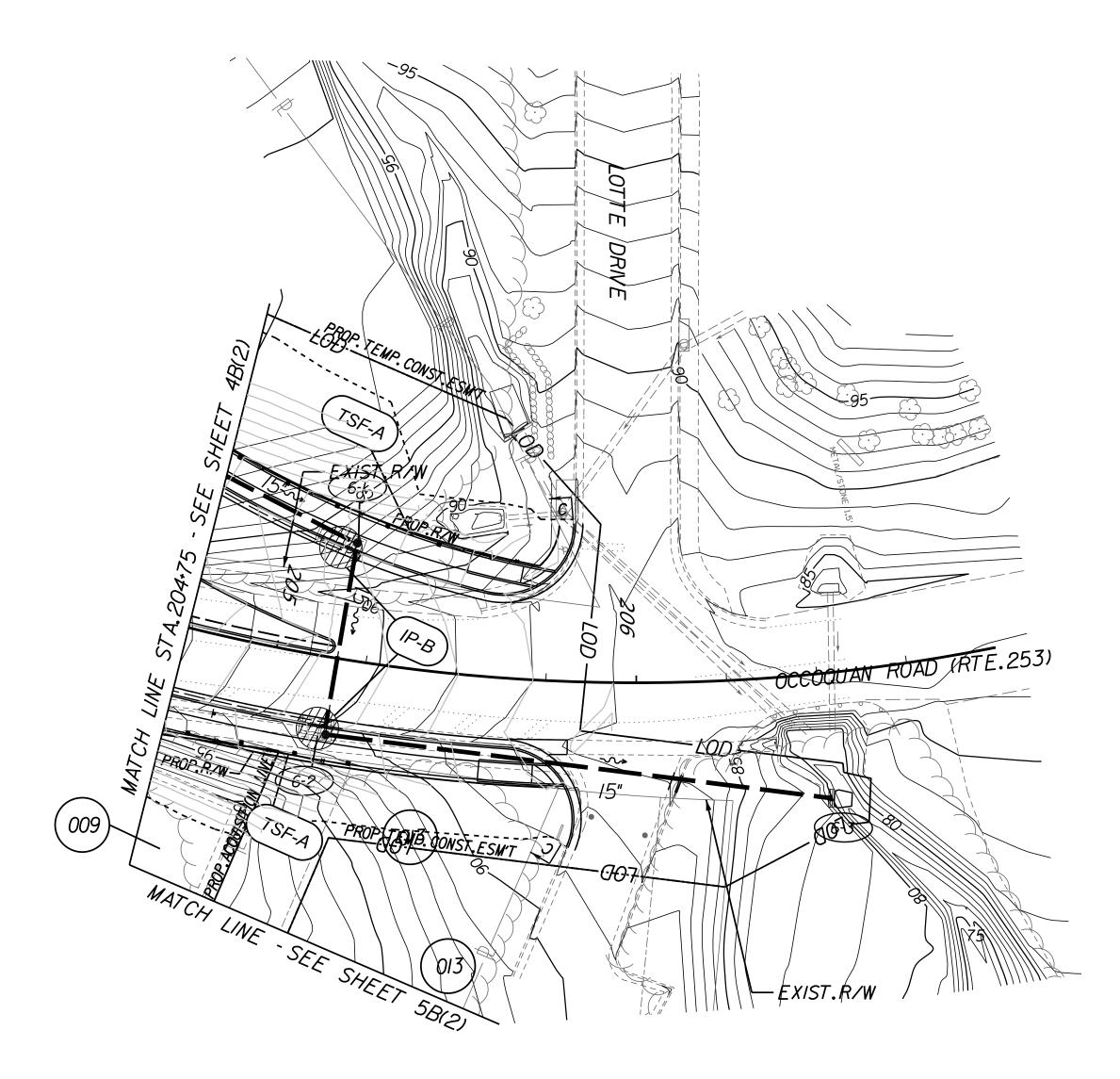
# dll555306b(l).dgn Plotted By: jthompson

	REVISED	STATE		STATE	
		STATE	ROUTE	PROJECT	SHEET NO.
		VA.	641	0641-076-30ł R-201,C-50ł	6B(I)
		TION AND	) CONTR HANGE 4		
Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER					

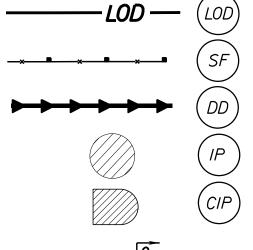
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SCALE	PROJECT	SHEET NO. 6B(1)

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_JMT, SEPTEMBER 2020 DESIGN BY \_\_JMT (703) 464-7369 SUBSURFACE UTILITY BY, DATE \_\_JMT, SEPTEMBER 2020



# LEGEND



-LOD - (LOD) LIMITS OF DISTURBANCE SILT FENCE DIVERSION DIKE STORM DRAIN INLET PROTECTION CULVERT INLET PROTECTION

C\_\_\_\_ Denotes Construction Limits in Cuts

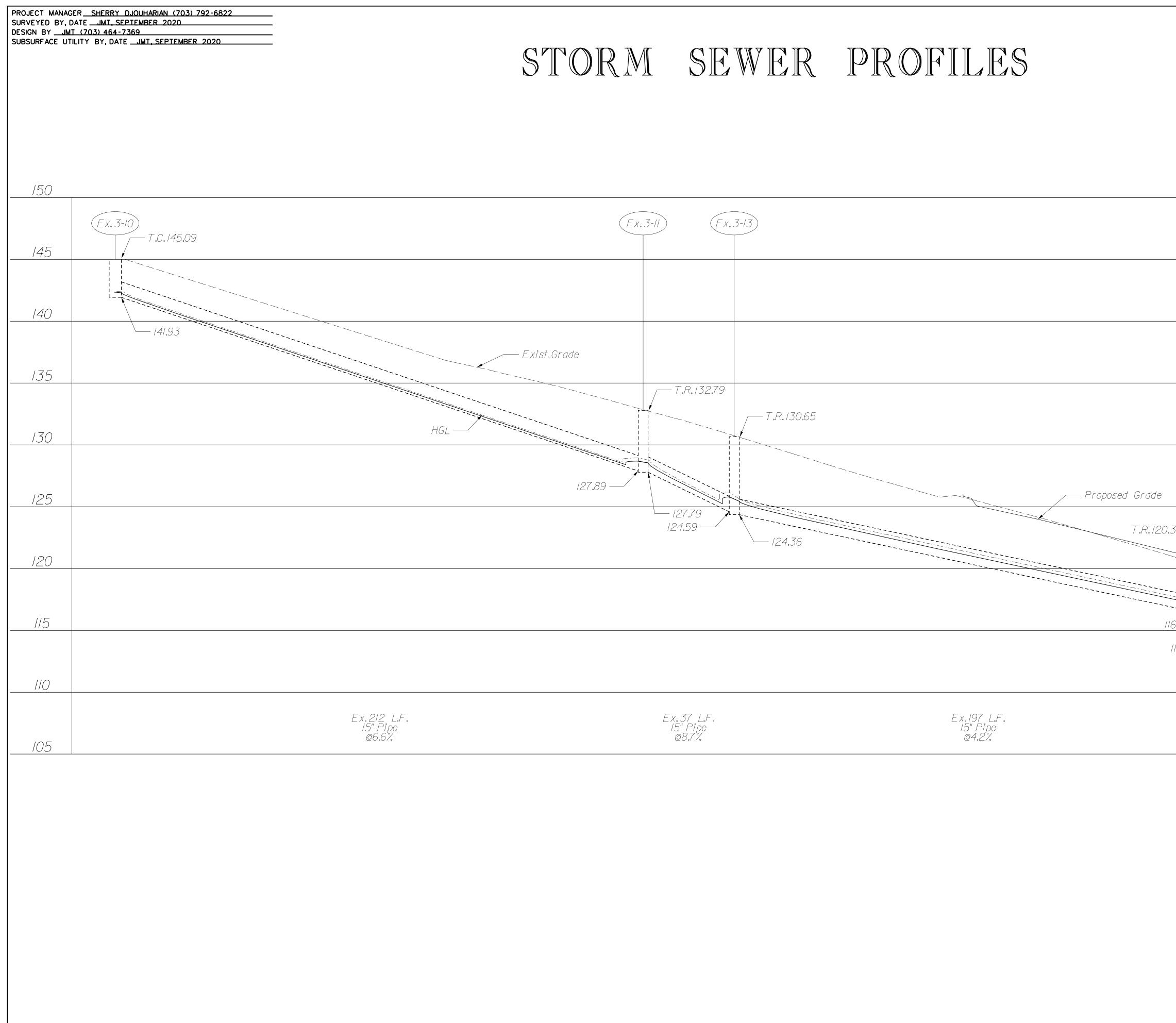
# EROSION & SEDIMENT CONTROL PLAN (PHASE 2)

## dll555306b(2).dgn Plotted By: jthompson

		REVISED	STATE		STATE		SHEET NO.
			STATE	ROUTE	PRO	IECT	SHEET NO.
			VA.	641		0641-076-301 R-201,C-501	6B(2)
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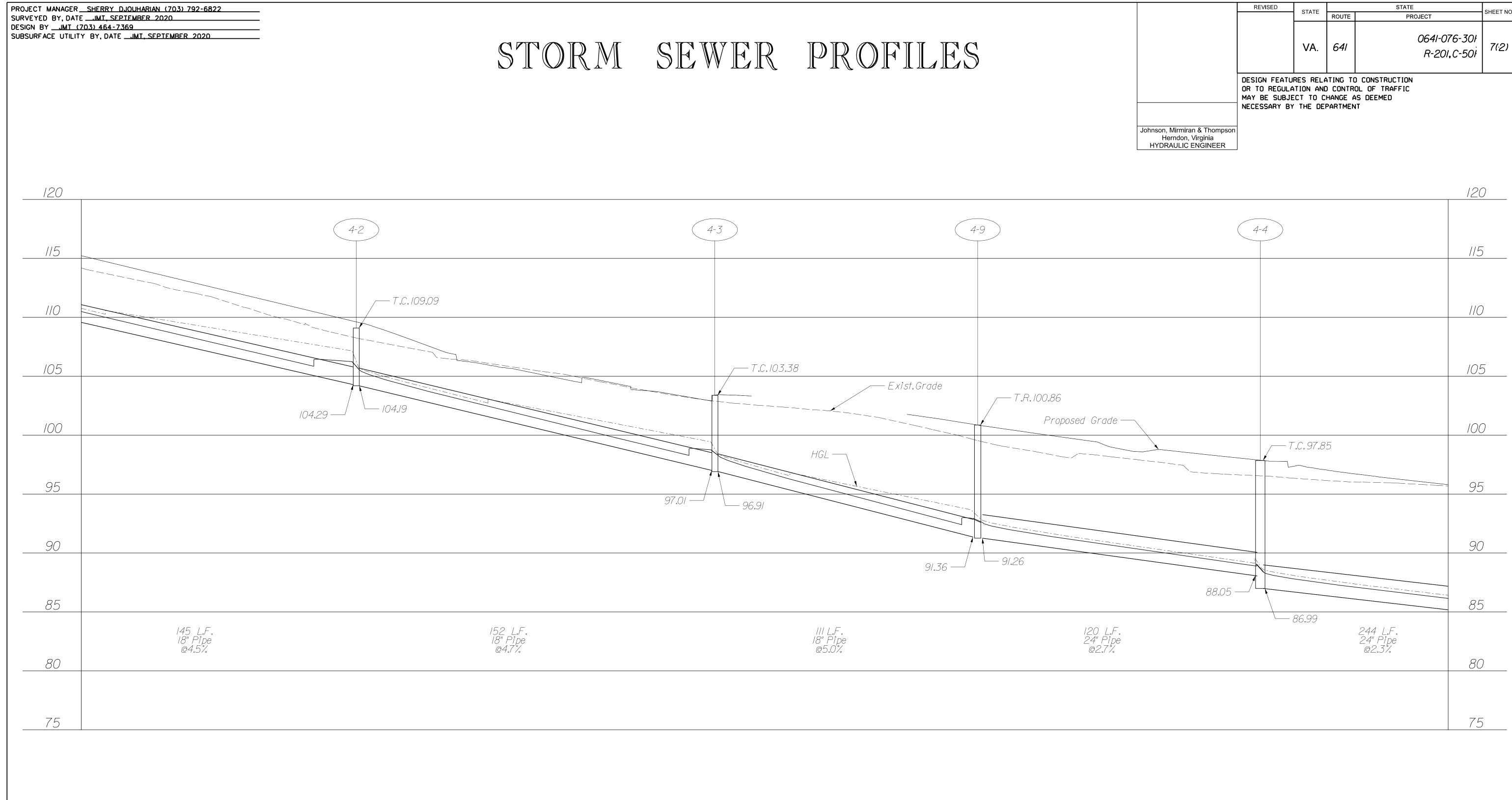
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dll555307(l).dgn Plotted By: jthompson

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	n, Mirmiran & Thompsor Herndon, Virginia IRAULIC ENGINEER							
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# dll555307(2).dgn Plotted By: jthompson

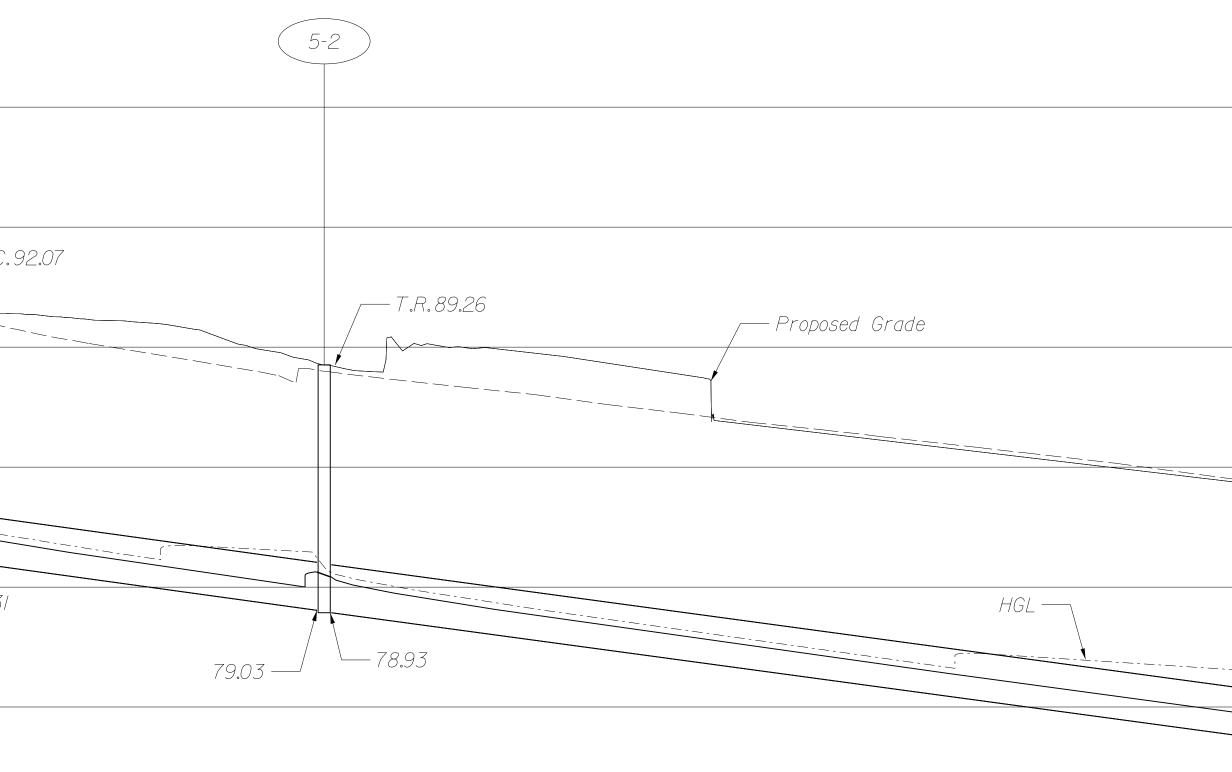
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Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER					

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	project 0641-076-301	SHEET NO. <b>7(:2)</b>

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	244 L.F 24" Pipe @2.3%	•
60	@2.3%	
60		

# STORM SEWER PROFILES



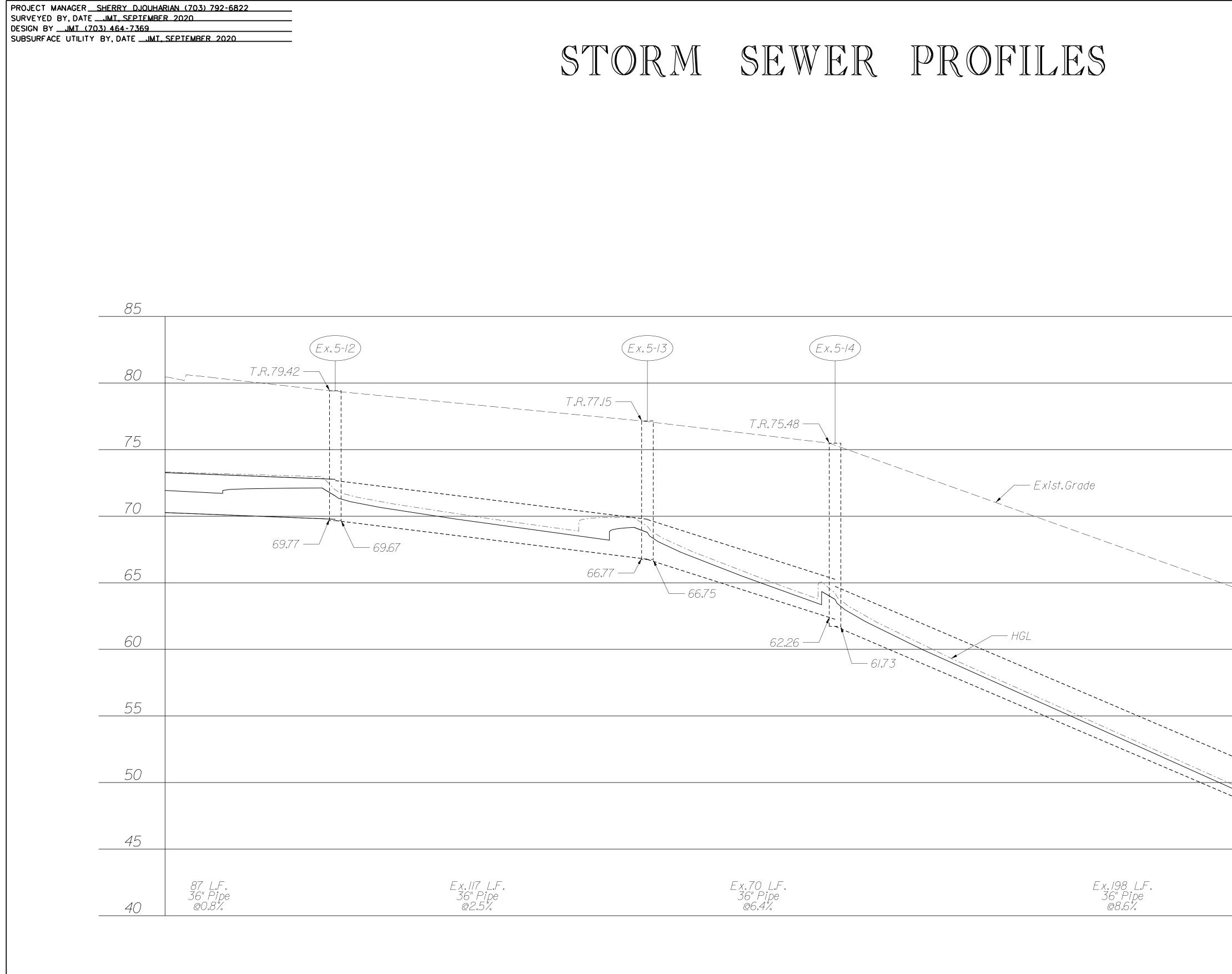
85 L.F. 24" Pipe @2.7%	263 L.F. 24" Pipe @2.7%	

# dll555307(3),dgn Plotted By: jthompson

	REVISED	STATE	ROUTE	STATE	ROJECT	SHEET NO.
		VA.	641		0641-076-30ł R-201,C-50ł	7(3)
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Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER						
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71.8	38	— 71.78 70	).55 —		70	
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		44 24" @2	L.F. Pipe 2.8%	87 36" @0.	L.F. Pipe .8% 60	
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0641-076-301

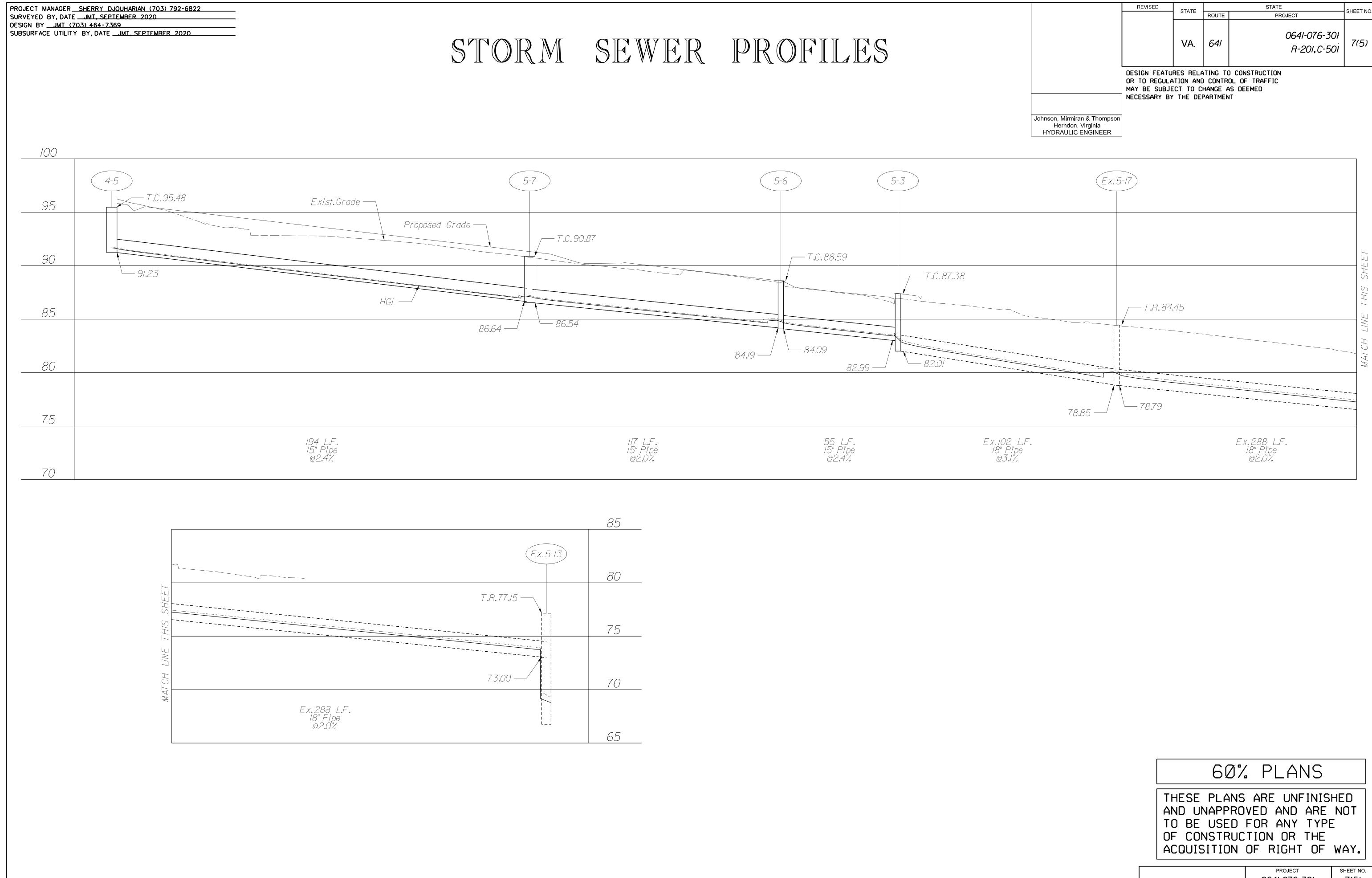
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project 0641-076-301 SHEET NO. **7(4)**  *||/|2/202|* 5:54:17 PM



117 L.F. 15" Pipe @2.0%	55 L.F. 15" Pipe @2.4%	Ex 1
@Z.0%	02.4%	

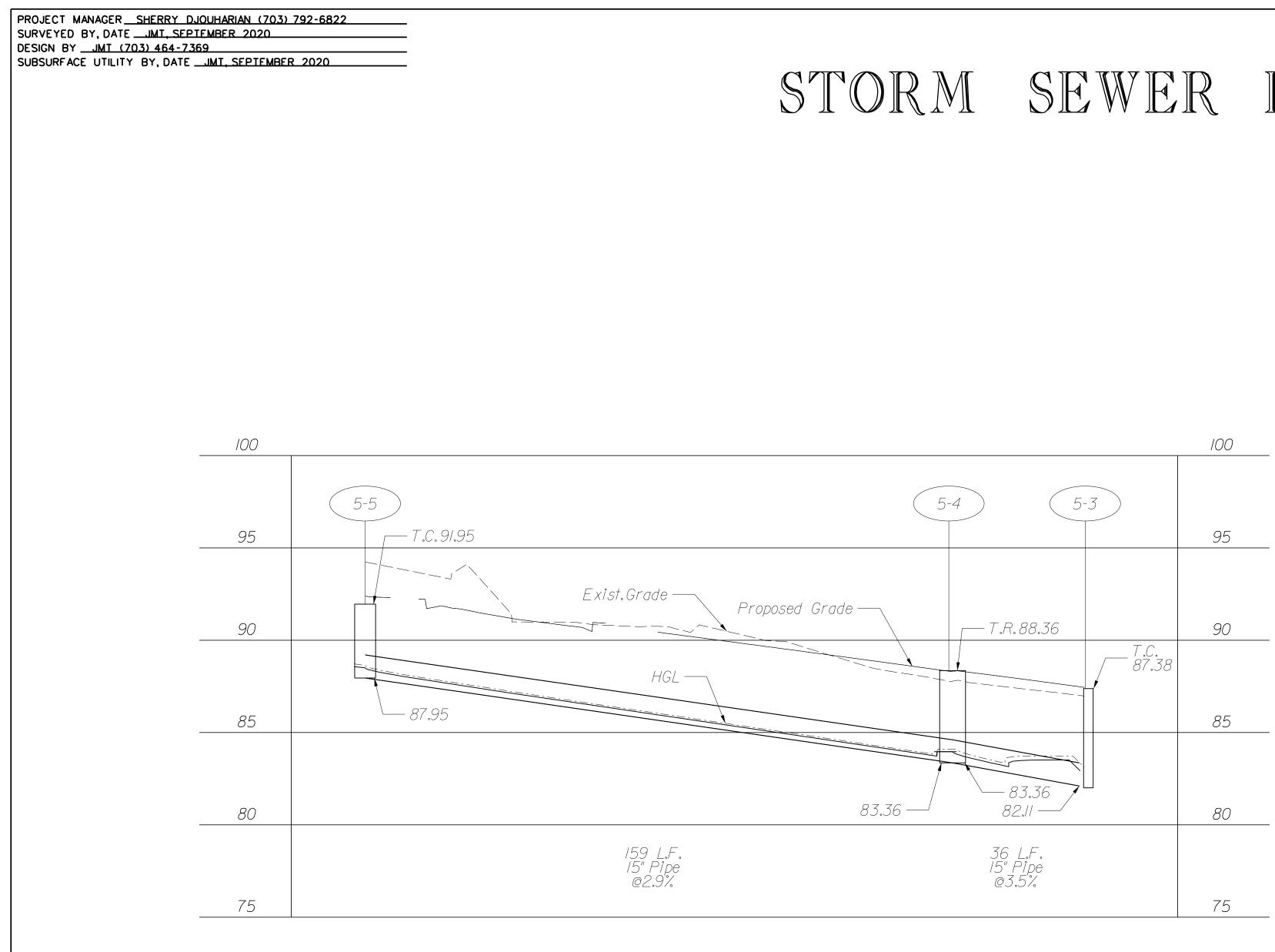
# dll555307(5).dgn Plotted By: jthompson

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Johnson, Mirmiran & Thompson	OR TO REGULA MAY BE SUBJE	SIGN FEATURES RELATING TO CONSTRUCTION TO REGULATION AND CONTROL OF TRAFFIC Y BE SUBJECT TO CHANGE AS DEEMED CESSARY BY THE DEPARTMENT							
Herndon, Virginia HYDRAULIC ENGINEER									

60% PLANS
THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
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	PROJECT 0641-076-301	SHEET NO. <b>7(5)</b>
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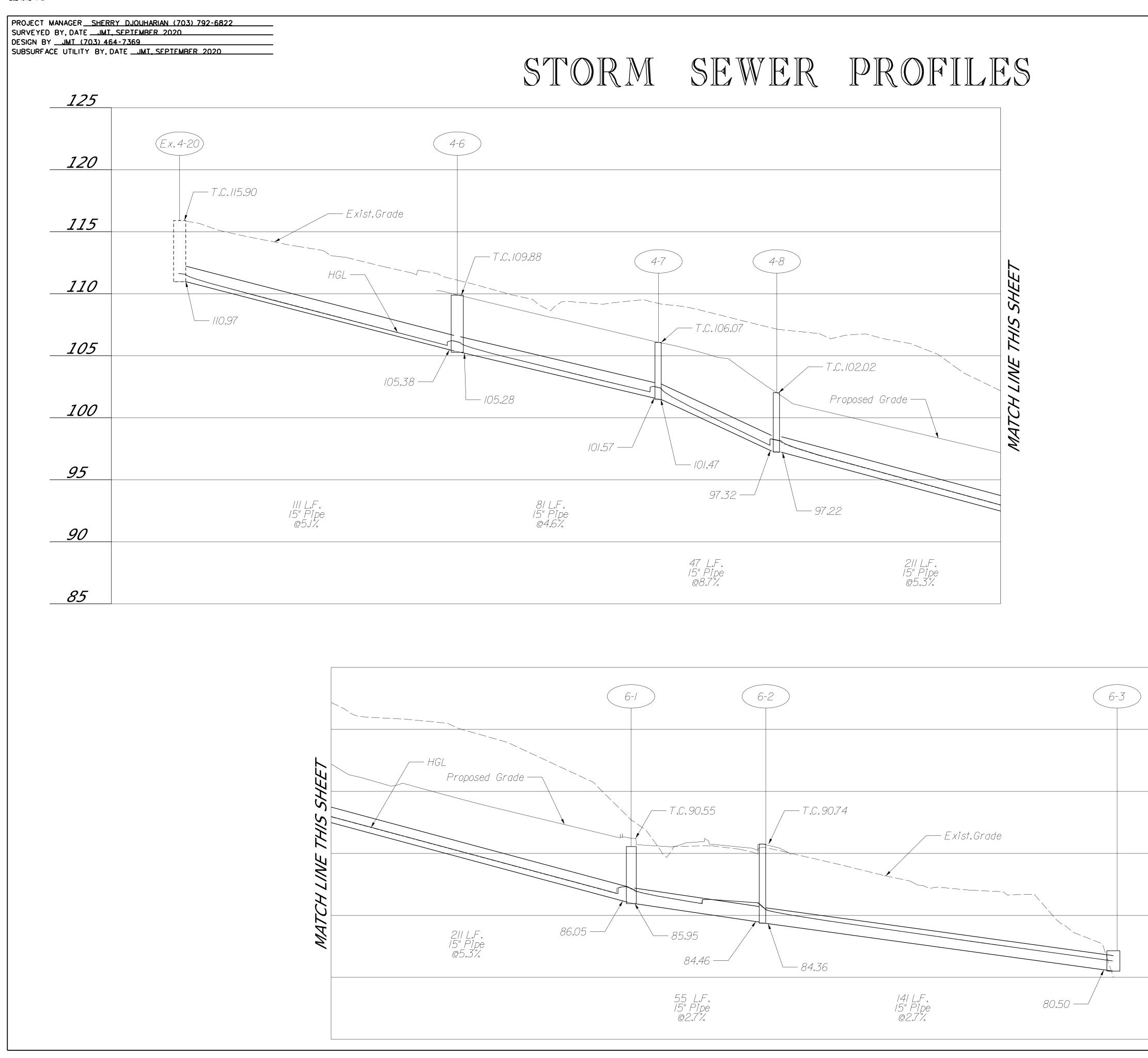


# STORM SEWER PROFILES

# dll555307(6).dgn Plotted By: jthompson

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Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER						
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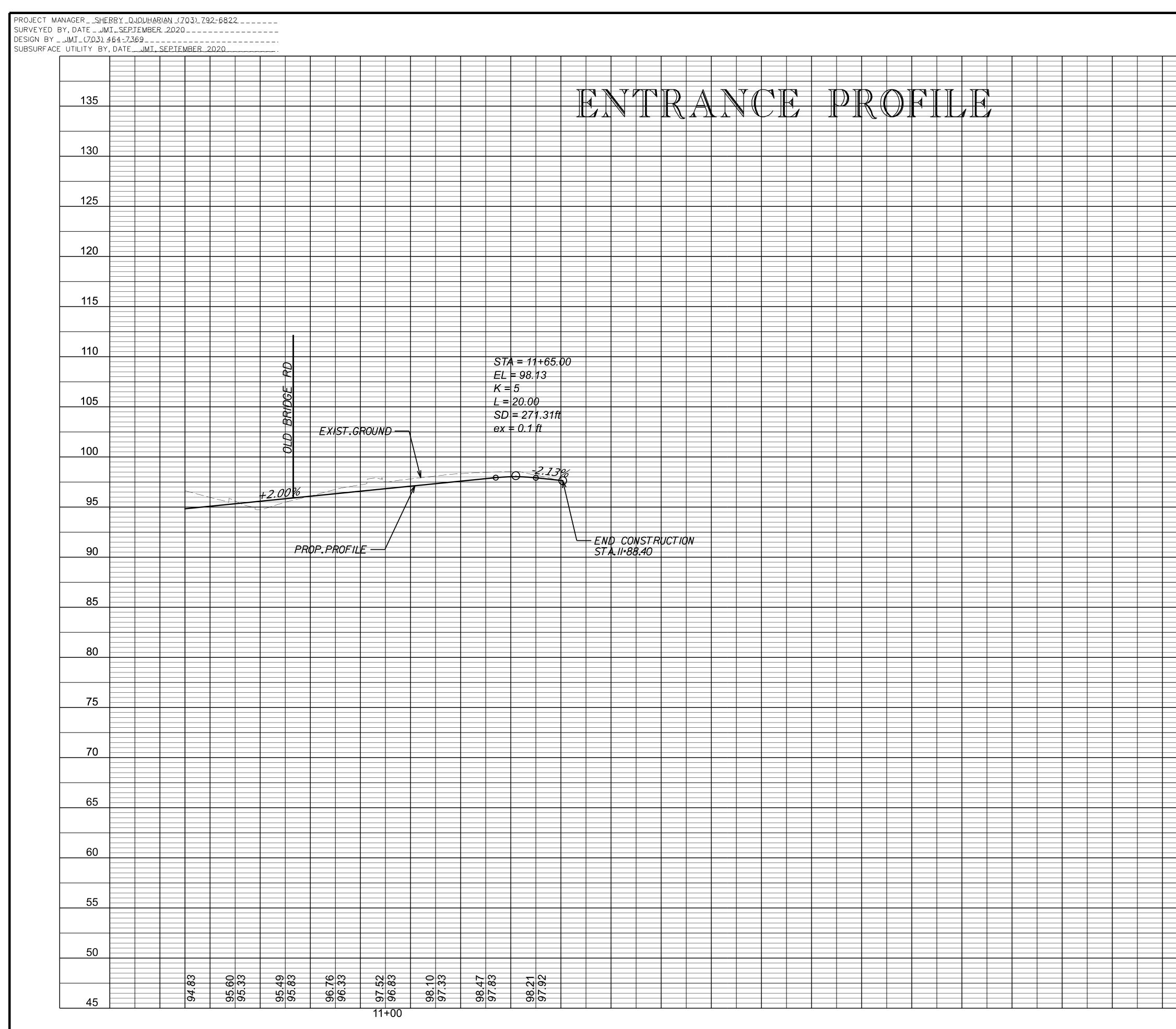


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Johnson, Mirmiran & Thompson Herndon, Virginia HYDRAULIC ENGINEER										

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85	60% PLANS
80	THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.
75	PROJECT SHEET NO. 0641-076-301 7(7)

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# dll555308**.**dgn

Plotted By: jthompson

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SURVEYED	MANAGER <u>SHERRY DJOU</u> BY, DATE <u>JMT, SEPTEN</u>	MBER 2020								
	Y <u>JMT (703) 464-7369</u> CE UTILITY BY, DATE <u>J</u>		ER 2020							
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<u>GENERA</u>	L NOTES							6.	TRAFFI	C SIGNAL HE
1.	THE FOLLOWING ITE BELOW: - SIGNAL POLE F - CONDUIT INSTA	OUNDATION LLATION		.PF-8 .ECI-10R B		)s liste	D		THEY FURTH	RE THAN 2' REMAIN WITH ER ADJUSTM CT (TBD) AT
	- SIGNAL HEAD H - SIGN HANGER . - JUNCTION BOX - CONTROLLER C			SMD-2 JB-S2,JB-S	53			7.		NUSED WIRES CRIMP TYPE
2.	- ELECTRICAL SE TRAFFIC SIGNAL FO PROJECTION/REVEAL IN ACCORDANCE WIT BORES ARE COMPLE ACCORDANCE WITH	RVICE UNDATION DI (IF NEEDEI TH PF-8 ST (TED. SIGNAL	EPTHS AND AE D) SHALL BE [ ANDARDS AFTE POLES AND	SE-5 BOVE GROU DETERMINED ER THE SIGI FOUNDATION	BY THE NAL POLE NS SHALL	CONTRA SOIL TE BE IN		8.	WITHIN OF WA PAVEM SIGHT	ONTROLLER THE DESIGN Y OR PROP ENTS SECTIO DISTANCE, AI ARD DETAIL
	CONDITIONS. THE PC AND SHOP DRAWING ENGINEER. THE TOP 4'' ABOVE THE HIGH	S THAT ARE OF ALL SIG	E SIGNED SEAL SNAL POLE FO	ED BY A F	PROFESSIO SHALL BE	NAL INSTALI	LED	9.	PROVIE	ON BOXES M DED THEY RI ES AND REM
_	MAST IS EXTENDING PAVEMENTS DISTAN	OVER, TO CES PER TH	ALLOW FOR F IE MUTCD.	REQUIRED SI	IGNAL HEA	D TO		10.	FRONT	ACEMENT O OF STOP E STANCES SF
3.	SIGNAL POLE FOUNE CORNERS NO MORE PROVIDED THAT TH	THAN 2' IN E REVISED F	ANY DIRECTIC FOUNDATION L	N FROM TH OCATIONS:	HE PLAN L			11.	FIELD The RI	LECTRIC SER ADJUSTED A GHT OF WA
	<ul> <li>REMAIN OUT OF 1</li> <li>REMAIN WITHIN TH</li> <li>DOES NOT CONFL</li> <li>DOES NOT LIMIT</li> <li>DOES NOT AFFEC</li> <li>ALLOW THE SIGN</li> <li>WITH THE DESIGN</li> <li>IS IN ACCORDANC</li> <li>DETAIL REFERENCE</li> </ul>	IE RIGHT OF ICT WITH U SIGHT DISTA T DRAINAGE AL HEADS T IATED TRAVI	WAY OR PRO TILITIES NCE O BE ADJUSTI EL LANES AS PF-8 CONCR	DPOSED EAS ED WITH TH SHOWN ON ETE FOUND	SEMENT HE SAME A THE PLAN	NS, AND		12.	ALL UN APPRO TO BE OF VIF AND ID WORKIN CONTA	ES AND REM NDERGROUND XIMATE ONL` GINNING SIGN CONIA'' AT 1- ENTIFY ALL NG DAYS PR CT (TBD) at
4. 5.	THE CONTRACTOR S COVERAGE PRIOR T ALL POLES SHALL F THE ENGINEER AND OF FOUNDATIONS	O THE INST	ALLATION OF AKED BY THE OR PER SECTIO	SIGNAL POL CONTRACI DN 700 PRI	E FOUNDA FOR AND II OR TO INS	TIONS. NSPECTE STALLAT	ED BY	LEG	WITH BETWE CONTR MAY B OR RE CONCR	DCATION OF THE PROJECT EN UTILITIES ACTOR SHAL E REVIEWED PLACING, AT ETE ITEMS, E
	PLAN	ITEM		PLAN S	SYMBOL EXISTING			F	PLAN ITE	M
(A P (S	letal Signal Pole & Foundatio As noted in Signal Pole Lege Pedestal Pole and Foundation St'd.PF-2)	nd)	m	• •	©		Electrical Se Electrical Se Controller Co	ervice Saf	er ety Switch (Di	sconnect) Ground Mour Pole Mounted
Pedestal Pole and Foundation (St'd.PA-3) Traffic Signal Head Pedestrian Signal Head Pedestrian Pushbutton & Sign Traffic Signal Sign Mast Arm or Span Wire Mt'd. Pole Mounted							Master Contr Controller Co			Ground Mour Pole Mounted Std.CF-I Std.CF-3
V Ju S		Conf.Light Conf.Light on plans) Arm		••• •• I I X X	₩ ₩ ₩ \$ \$ \$		Master Conti Foundation	roller Cabi	inet &	Std.CF-4 Std.CF-I Std.CF-3
L. V.	oop Detector (Size as noted ideo Detection Zone (Size as onduit	on plans)	s)	← 6' x 20' 	6 <u>x 20</u> 6 <u>x 20</u> 000 002 000 002 000 000 000 000 00000 000 000 000 000 0000 000 000 000 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000	- -	Uninterrupti. Directional F		Supply Cabin nna	Std.CF-4
F					L	ABELS	5			
С	Signal Pole or Controller Cable and Conduit Junction Box	$\begin{array}{c} \textcircled{A} \\ \textcircled{A} \\ \textcircled{S} \\ \fbox{S} \end{array}$		-			Signal Phasing Pedestrian Pi		Ø2 P2>	Sign Video D Emerge

# TRAFFIC SIGNAL TS, GENERAL NOTES & LEGEN

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- HEADS AND MAST ARM SIGNS MAY BE FIELD ADJUSTED 2'IN EITHER DIRECTION ON THE MAST ARMS, PROVIDED ITHIN THE DESIGNATED TRAVEL LANE ASSIGNMENTS. IF TMENT IS NEEDED, THE PROJECT INSPECTOR SHALL AT (XXX) XXX-XXXX.
- RES IN THE SIGNAL HEADS SHALL BE CAPPED INDIVIDUALLY (PE CAPS.
- R CABINET & CF-3 FOUNDATION MAY BE RELOCATED IGNATED CORNER PROVIDED IT REMAINS WITHIN THE RIGHT OPOSED EASEMENT, OUTSIDE OF THE CLEAR ZONE AND TIONS, DOES NOT CONFLICT WITH UTILITIES, DOES NOT LIMIT , AND IS IN ACCORDANCE WITH THE ELECTRIC SERVICE IL REFERENCED TO THE INSTALLATION.
- S MAY BE RELOCATED IN THE FIELD AS NECESSARY REMAIN WITHIN THE RIGHT OF WAY, DO NOT CONFLICT WITH EMAIN OUTSIDE THE PAVEMENT SECTION.
- OF 6'X 40'LOOPS SHOWN ON THE PLANS SHALL BE 5'IN P BARS AND ALL 6'X 6'LOOPS SHALL BE INSTALLED AT SPECIFIED ON THE PLANS.
- SERVICE CONNECTION AND SERVICE LINE LOCATIONS MAY BE AS NECESSARY PROVIDED ALL EQUIPMENT REMAINS WITHIN WAY OR PROPOSED EASEMENT, DOES NOT CONFLICT WITH REMAINS OUTSIDE THE PAVEMENT SECTIONS.
- AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE 21. Y AND MAY NOT BE COMPLETE. AT LEAST 72 HOURS PRIOR NAL WORK, THE CONTRACTOR SHALL CONTACT "MISS UTILITY -800-552-7001 IN ORDER TO DETERMINE THE EXTENT, LOCATION, OF THE UTILITIES WITHIN THE WORK AREA. AT LEAST 4 FULL RIOR TO BEGINNING SIGNAL WORK, THE CONTRACTOR SHALL (XXX) XXX-XXXX IN ORDER TO DETERMINE THE EXTENT ALL UNDERGROUND SIGNAL EQUIPMENT OWNED BY VDOT LIMITS. IF THE CONTRACTOR PERCEIVES A CONFLICT AND THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. THE 22. L NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT . THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING THEIR OWN EXPENSE, ANY EXISTING UTILITIES, PAVEMENT, ETC. THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION.

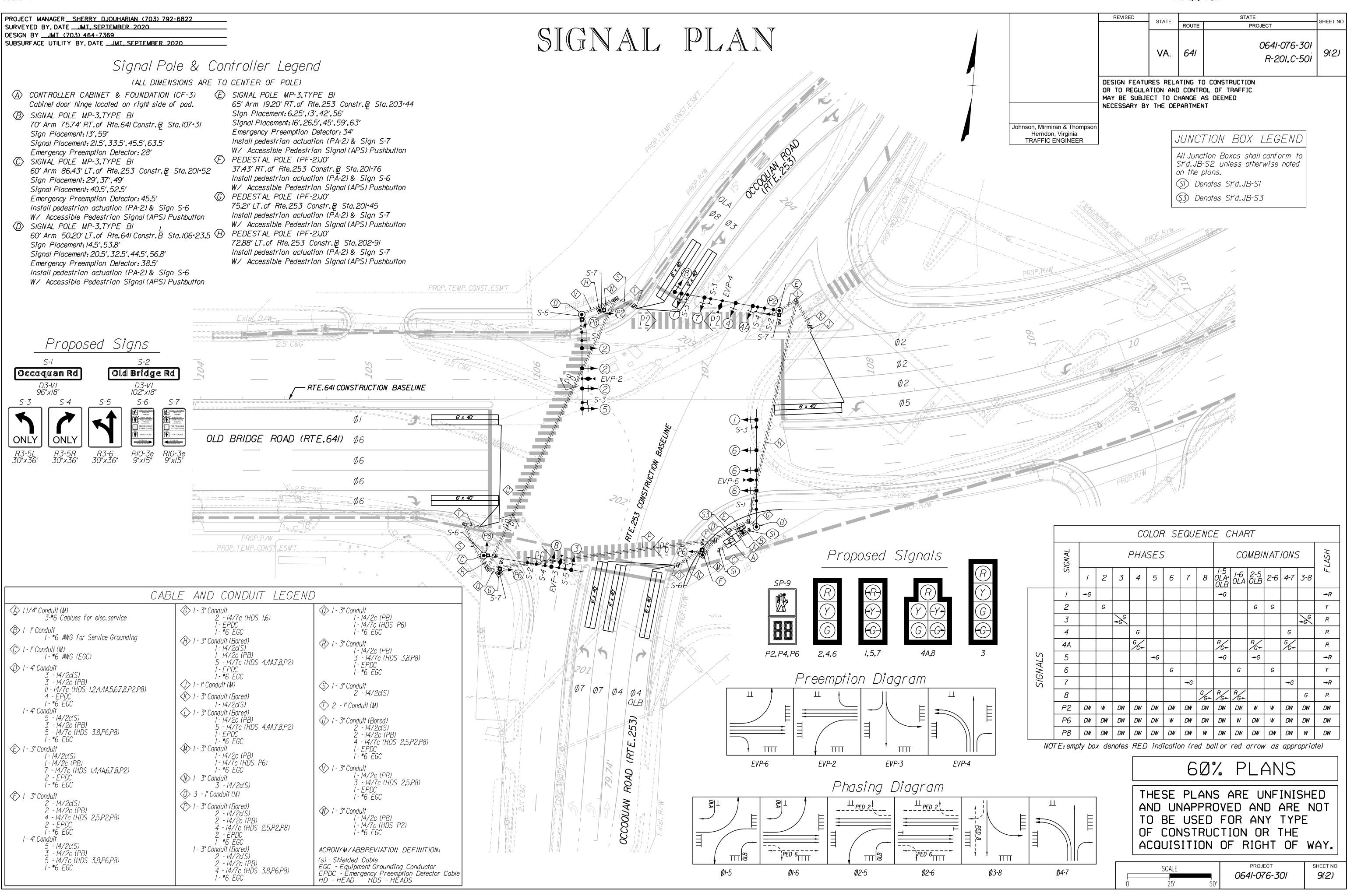
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ergency Preemption Detector $EVP$ -/					
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- CONDUIT SYSTEMS SHALL BE BONDED IN ACCORDANCE WITH SECTION OF THE ROAD AND BRIDGE SPECIFICATIONS.
- PAVEMENT MARKINGS SHOWN ON THE SIGNAL PLANS ARE FOR REPRESENTATION ONLY. ACTUAL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE PAVEMENT MARKING PLANS.
- ALL EQUIPMENT IS TO BE INSTALLED WITHIN THE EXISTING OR PROPOS R/W OR EASEMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS APPROXIMATE ONLY AND MAY NOT BE COMPLETE.
- THE CONTRACTOR WILL PROVIDE SIGNAL TIMINGS. THE CONTRACTOR SHACONTACT (TBD) AT (XXX)XXX-XXXX AT LEAST TWO WEEKS IN ADVANCE SIGNAL TIMING IMPLEMENTATION.
- THE CONTRACTOR SHALL COORDINATE ALL SIGNAL TIMINGS, INCLUDING AND YELLOW CLEARANCE INTERVALS WITH (TBD) AT (XXX) XXX-XXXX
- THE CONTRACTOR SHALL MAINTAIN SIGNAL COMMUNICATIONS AT ALL TIN
- IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND PROPOSED TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL NOTIF THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE REVIEWE THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACI AT THEIR OWN EXPENSE, ANY EXISTING UTILITIES, PAVEMENT, CONCRETE ITEMS, PIPES, ETC. THAT ARE DAMAGED DURING CONSTRUCTION.
- ALL TRAFFIC SIGNAL AND SIGNING WORK AND ADJUSTMENTS TO PROPO SIGNALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, AN THE LATEST EDITIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTAT (VDOT) ROAD & BRIDGE SPECIFICATIONS DATED 2016, VDOT ROAD & BR STANDARDS DATED 2016, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION (MUTCD), THE 2011 VIRGINIA SUPPLEMENT TO TH MUTCD, THE 2002 NATIONAL ELECTRICAL CODE, SPECIAL PROVISION COF NOTES AND SPECIAL PROVISIONS AT THE TIME OF ADVERTISEMENT.
- EMERGENCY PREEMPTION DETECTORS AND CONFIRMATION LIGHTS SHALL LOCATED AS SHOWN ON THE PLANS, HOWEVER, MAY BE FIELD ADJUSTE NECESSARY TO PROVIDE OPTIMAL DETECTION CAPABILITIES. WIRING SHAL ADJUSTED AS NECESSARY IF THE DETECTOR AND LIGHT LOCATIONS AR MODIFIED.
- ACCESSIBLE PEDESTRIAN SIGNALS AND DETECTORS SHALL BE USED. PUSHBUTTONS SHALL BE LOCATED A MAXIMUM OF 10'' FROM THE PEDE TRAVELWAY (SIDEWALK).
- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM DISTRICT/REGIONAL OPERATION RELRESENTATIVE PRIOR TO OPENING SIGNAL FOR TRAFFIC U ENSURE THAT ALL COMMUNICATIONS COMPLY WITH VDOT'S LATEST CYN SECURITY REQUIREMENTS.
- ALL PROPOSED COMMUNICATIONS SHALL COMPLY WITH THE LATEST VIT STANDARD SEC501 - INFORMATION SECURITY STANDARD, AND BE APPRON DISTRICT/REGIONAL OPERATIONS REPRESENTATIVE PRIOR TO OPENING S FOR TRAFFIC USE.
- NOTE NOT USED.
- THE PROJECT IS RESPONSIBLE FOR SUBMITTING TRAFFIC SIGNAL TIMING DATA NEEDED FOR COORDINATION NO MORE THAN SIX (6) MONTHS PRIOR TO PROJECT COMPLETION AND NO LESS THAN SIXTY (60) DAYS PRIOR TO THE ACTIVATION OF THE TRAFFIC SIGNAL. SIGNAL OPERATIONS SECTION REQUEST THE LATEST DATA FOR THE IMPLEMENTATION AND HAVE ENOUGH TIME TO REVIEW. IN ADDITION, THE APPROVED TIMINGS ARE VALID FOR 6 MONTHS ONLY, AND SHOULD REFLECT THE CURRENT OPERATION CONDITION AS THEY WILL BE IMPLEMENTED IN THE FIELD AT THAT TIME. THIS INCLUDES EIGHT (8) TIME OF DAY TIMING PLANS TO REFLECT CYCLE LENGTHS NECESSARY TO ACCOMMODATE CHANGES IN TRAFFIC PATTERNS FOR PERIODS INCLUDING A.M. PEAK, MID-DAY, P.M. PEAK, OFF PEAK AND WEEKENDS (WEEK-AM, SAT PEAK, SUN PEAK AND WEEK-PM). THESE TIMING PLANS ARE TO BE SUBMITTED TO THE VDOT PERMITS SECTION FOR REVIEW AND APPROVAL BY THE SIGNAL OPERATIONS SECTION TO BE PROVIDED IN AN ELECTRONIC FILE FORMAT COMPATIBLE WITH THE SYNCHRO PROGRAM USED BY VDOT.

### dll555309(1).dgn Plotted By: jthompson

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		·	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.						
				VA.	641	0641-076-301 R-201,C-501	<b>Q(/)</b>						
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700	Johnson, Mirmira Herndon, TRAFFIC EI	Virginia											
	28.					IS ARE WITHIN 10 FEET OF ESSAGE SHALL BE USED.							
DSED	29.		E PEDESTRIAN			NAL DETECTORS (APD) AND SHALL MEET VDOT'S							
S ARE	30.	APPROVAL	. PLANS WITH	EXPIRED		MONTHS FROM THE DATE OF /AL MUST BE SUBMITTED TO							
HALL CE OF RED IMES.	31.	MAINTAININ ALL TIMES ASSOCIATE SIGNAL. TH THE LOCA	VDOT FOR RE-APPROVAL 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										
THE IFY			ER CABINET F			THE TRAFFIC SIGNAL TED COMMUNICATION							
YED. CING, TE POSED AND	32.	OPERATION NOVATFOC START OF DESIGNATE	NS COMMUNICA COMM@VDOT.VIF THE TRAFFIC	TIONS GF RGINIA.GO SIGNAL TION PLA	ROUP AT V NINET CONSTR	NORTHERN REGION Y (90) DAYS PRIOR TO THE UCTION TO IDENTIFY THE AND INITIATE THE BROADBAND							
AND ATION BRIDGE HE DPIED	33.	REGION RA CONTACT REGARDING	ADIO COMMUNIO VDOT'S COMM	CATIONS GROUP ATION RI	PLATFOF AT NOV EQUIREM	TILIZE VDOT'S NORTHERN RM. THE PROJECT SHALL ATFOCOMM@VDOT.VIRGINIA.GOV ENTS AND WIRELESS RADIO							
LL BE TED AS	34.		SIGNAL COMMU			NTO OPERATIONS UNTIL THE EMENTS ARE COMPLETE AND							
IALL BE ARE	35.												
DESTRIAN USE TO YBER VITA ITRM OVED BY SIGNAL	36.	SIGNAL MODIFICATION PLAN FOR VDOT TE REVIEW AND APPROVAL.											
L	SI 90	<u>RAFFIC S</u> HEET NO. (1) (2)	INDI TRA	<u>SCRIPTIC</u> EX OF S AFFIC SIC	<u>)n</u> Heets, Gnal Pl	<u>DEX</u> GENERAL NOTES & LEGEND AN - INT. OF OLD BRIDGE RO COQUAN ROAD (RTE. 253)	AD						
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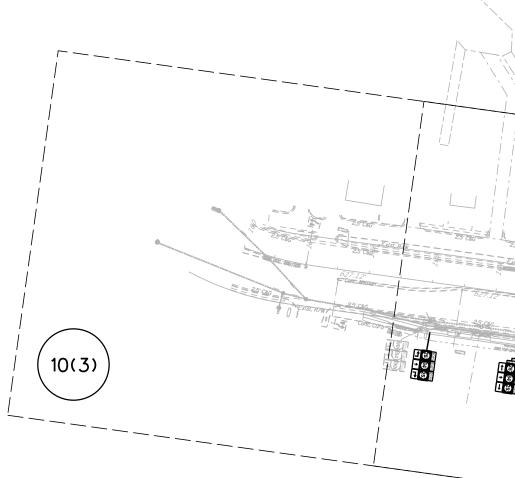
dll555309(2).dgn Plotted By: jthompson

	I BY <u>JMT (703) 464-7369</u> RFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u> SIC	INI	NG
	INDEX		SHE
<u>GENI</u>	RAL NOTES		
	<ul> <li>SIGNING AND PAVEMENT MARKING WORK SHALL BE IN CONFORMANCE</li> <li>THE FOLLOWING DOCUMENTS:</li> <li>2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), REVISION 1 AND 2</li> <li>2011 VIRGINIA SUPPLEMENT TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (REVISION 1),</li> <li>2016 VDOT ROAD AND BRIDGE STANDARDS, AS REVISED,</li> <li>2020 VDOT ROAD AND BRIDGE SPECIFICATIONS, AND</li> <li>ALL SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISION COPIED NOTES INCLUDED IN THE CONTRACT.</li> <li>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 SECTION 105 (2016 ROAD AND BRIDGE STDS.).</li> <li>THE REMOVAL, MODIFICATION, OR RELOCATION OF EXISTING SIGN PANELS, STRUCTURES, AND FOUNDATIONS SUMH CONFORM TO SECTION F10 OF TUE SPECIFICATIONS</li> </ul>	12.	INTERSECTION S INSTALLATION. ALL UTILITY LOO NOT BE ACCURA THE VIRGINIA ''UI STATE CORPORA IF THE CONTRAC THAT ARE NOT SHALL CONTACT EXCAVATION. THE MINIMUM OF 72 EXTENT AND LOO PERCEIVES A CO CONTRACTOR SH CONFLICT MAY E
4.	AND FOUNDATIONS SHALL CONFORM TO SECTION 510 OF THE SPECIFICATIONS. UNLESS OTHERWISE APPROVED BY THE ENGINEER OR INDICATED IN THE MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION PLANS, EXISTING TRAFFIC SIGNS WHICH ARE TO BE RELOCATED OR REPLACED SHALL REMAIN IN PLACE UNTIL THE NEW SIGN STRUCTURE AND CRITICAL SIGN MESSAGE ARE IN PLACE.		
5.	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 PRIOR TO PLACEMENT.		
6.	SIGN PANEL DESIGN FOR SIGNS MOUNTED ON SQUARE TUBE POSTS SHALL CONFORM TO ST'D. SPD-5. THE CONTRACTOR SHALL VERIFY THE DESIGN OF ALL SIGN PANEL ASSEMBLY TYPES NOT SHOWN IN THIS ST'D. WITH THE ENGINEER.		
7.	ALL EXISTING AND PROPOSED PAVEMENT MARKINGS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL PROPOSED STOP BAR, YIELD LINE AND CROSSWALK LOCATIONS SHALL BE IDENTIFIED AND STAKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.		
8.	ALL PAVEMENT MARKINGS, WHERE CONNECTING TO EXISTING PAVEMENT MARKINGS, SHALL BE DONE IN A MANNER APPROVED BY THE ENGINEER.		
9.	EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHOWN HEREIN SHALL BE ERADICATED IN ACCORDANCE WITH SECTION 512.03(I) OF THE SPECIFICATIONS. ERADICATION SHALL BE CONSIDERED INCIDENTAL TO THE PAVEMENT MARKINGS AND SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT.		
10.	ALL TRAVEL LANES SHALL BE 12' WIDE AND STRIPED WITH 4'' WIDTH LINES UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER.		
11.	LONGITUDINAL PAVEMENT LINE MARKINGS SHALL BE TYPE B, CLASS I. ALL OTHER PAVEMENT MARKINGS SHALL BE TYPE B, CLASS IUNLESS OTHERWISE NOTED.		ST Do Tr
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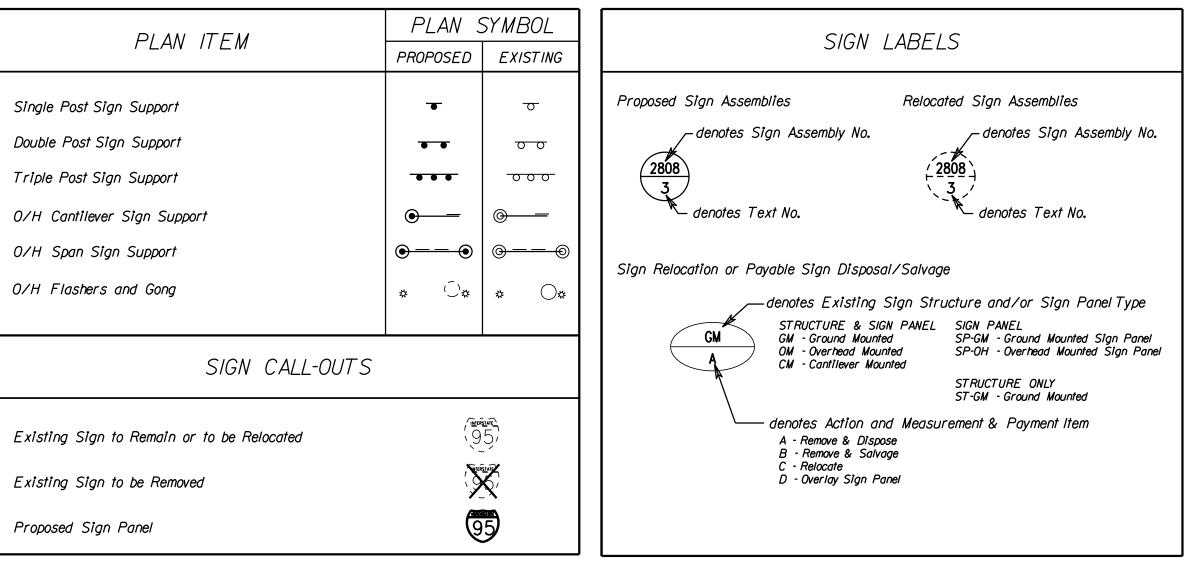
# AND PAVEMENT MARKING EETS, GENERAL NOTES & LEGEND

N STRIPING SHALL BE COORDINATED WITH THE TRAFFIC SIGNAL

LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY URATE OR COMPLETE. THE CONTRACTOR SHALL COMPLY WITH "UNDERGROUND UTILITY DAMAGE PREVENTION ACT" AND THE ORATION COMMISSION'S "RULES FOR ENFORCEMENT OF THE ACT". RACTOR IS AWARE OF ANY UTILITIES WITHIN THE PROJECT LIMITS OT IDENTIFIED BY THE NOTIFICATION CENTER, THE CONTRACTOR ACT THE UTILITY OWNER(S) AT LEAST 72 HOURS PRIOR TO ANY THE CONTRACTOR SHALL NOTIFY VDOT AT 800-367-7623 A 72 HOURS PRIOR TO ANY EXCAVATION TO DETERMINE THE LOCATION OF VDOT OWNED EQUIPMENT. IF THE CONTRACTOR A CONFLICT BETWEEN UTILITIES AND THE PROPOSED WORK, THE SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE AY BE REVIEWED.



# STANDARD SIGN LEGEND



dll5553l0(l).dgn Plotted By: jthompson

		REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
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	Johnson, Mirmiran & Thompson Herndon, Virginia TRAFFIC ENGINEER				-	
	GNING AND MARKING	<u>-</u> <u>S PLAN SH</u> <u>Scription</u>	eet in	<u>IDEX</u>		
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			NTS		PROJECT 5 0641-076-301	SHEET NO. 10(1)

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PROJECT MANAGER SHERRY DJOUHARIAN (703) 792-6822 SURVEYED BY, DATE \_\_\_\_\_\_\_\_\_SEPTEMBER\_2020\_\_\_ DESIGN BY \_\_\_\_\_\_\_ JMT (703) 464-7369 

			SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (s.f.)					
TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	MUTCD ST'D.	PANEL W	SIZE	QTY.	EACH	T OT AL	PROP.SIGN STRUCTURE ST'D.	PROP. FOUNDATION	REMARKS
101	402,503	ONE WAY	R6-IR	54"	18"	2	6.75	13.5	(I) STP-I 2" I4 ga. SQ.TUBE POST	STP-I TYPE A	
102	403,404, 405,406,502		R4-7	24"	30"	5	5	25	(I) STP-I 2" I4 ga. SQ.TUBE POST	STP-I TYPE A	
103	501	SPEED LIMIT <b>35</b> EMERGENCY SNOW ROUTE NO PARKING IF OVER 2 INCHES	R2-I R7-203	30" 18"	36" 24"	 	7.5 3	10.5	(I) STP-I 2 I/2" I2 ga. SQ.TUBE POST	STP-I TYPE A	
104	504		R4-7 R6-IR	24" 54"	30"  8"	/ /	5 6.75	II <b>.</b> 75	(I) ST P-I 2" I4 ga. SQ.TUBE POST	STP-I TYPE A	
105	601	SPEED LIMIT 30	R2-1	30"	36"	1	7.5	7.5	(I) STP-I 2" I4 ga. SQ.TUBE POST	STP-I TYPE A	
106	506,507		R3-2	24"	24"	2	4	8	(I) STP-I 2" I4 ga. SQ.TUBE POST	STP-I TYPE A	
301	407	ROAD NARROWS	W5-I	36"	36"	1	9	9	(I) STP-I 2 I/2" I2 ga. SQ.TUBE POST	STP-I TYPE A	
302	401		WII-2 WI6-7P	36" 24"	36" 12"	 	9 2	11	(I) STP-I 2 I/2" I2 ga. SQ.TUBE POST	STP-I TYPE A	

NOTES:

I) ALL SIGNS SHALL BE ORIENTED 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.

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-I STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.

# SIGNING AND PAVEMENT MARKING PROPOSED SIGN SCHEDULE

			SIGN ASSEMBLY COMPONENTS				PANEL (s.f.)				
TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	MUTCD ST'D.	PANEL W	SIZE	ΩΤΥ.	EACH	T OT AL	PROP.SIGN STRUCTURE ST'D.	PROP. FOUNDATION	REMARKS
501	301	NORTH EAST SOUTH 253641253 The second	M3-I M3-2 M3-3 MI-V2a M5-IL M6-3 M5-IR	24" 24" 24" 21" 21" 21"	2"  2"  2"  5"  5"  5"	   3   	2 2 4 2.1875 2.1875 2.1875	24.6	(I) STP-I 2 I/2" IO ga. with 2 3/I6" IO ga. SQ.TUBE POST	STP-I TYPE B	
502	408	NORTH EAST SOUTH 253 641 253 ← ↑ →	MI-I M6-3 M3-I M3-2 M3-3 MI-V2a M6-IL M6-3 M6-IR R6-IL	24" 21" 24" 24" 24" 21" 21" 54"	24"  5"  2"  2"  5"  5"  5"  8"	       3       	4 2.1875 2 2 2 4 2.1875 2.1875 2.1875 6.75	37.5	(I) STP-I 2 I/2" IO ga. with 2 3/I6" IO ga. SQ.TUBE POST	STP-I TYPE B	
503	409	SOUTH WEST NORTH 253641253 ← ↑ →	M3-3 M3-4 M3-1 MI-V2a M6-1L M6-3 M6-1R	24" 24" 24" 21" 21" 21"	2"  2"  2"  5"  5"  5"	   3   	2 2 4 2.1875 2.1875 2.1875	24,6	(I) STP-I 2 I/2" IO ga. with 2 3/I6" IO ga. SQ.TUBE POST	STP-I TYPE B	
504	505	NORTH SOUTH TO 123 123 95 TT FT FT	M3-I M3-3 M4-5 MI-VIa MI-I M5-IL M5-IR	24" 24" 24" 30" 24" 21"	12" 12" 12" 24" 15" 15"	       2	2 2 5 4 2,1875 2,1875	26.6	(1) STP-1 2 1/2" 10 ga. with 2 3/16" 10 ga. SQ.TUBE POST	STP-I TYPE B	

### dl1555310(2b).dgn Plotted By: jthompson

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					STATE	ROUTE			SHEET NO
					VA.	641		0641-076-301 R-201,C-501	IO(2B)
			C	)r to re 1ay be s	EATURES RELA GULATION AND SUBJECT TO CH Y BY THE DEP	Contr Iange 4	OL OF TRA AS DEEMED	AFFIC	
	SEMBLY ENTS			PANEL (s.f.)					
NEL	_ SIZE	ΩΤΥ.	EACH	TOTAL	PROP.SIGN STRUCTURE	-   _ /	PROP.	REMARKS	
/	Н		E	70	ST'D.	F 00	NDATION		
4" 4" 4" 4" 6)" 6)"	12" 12" 12" 15" 15" 15"	   3   	2 2 4 2,1875 2,1875 2,1875	24.6	(I) STP-I 2 I/2" IO ga. with 2 3/I6" IO ga. SQ.TUBE POST		STP-I 'PE B		
4" 	24"	1	4		(I) STP-I				

60% PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

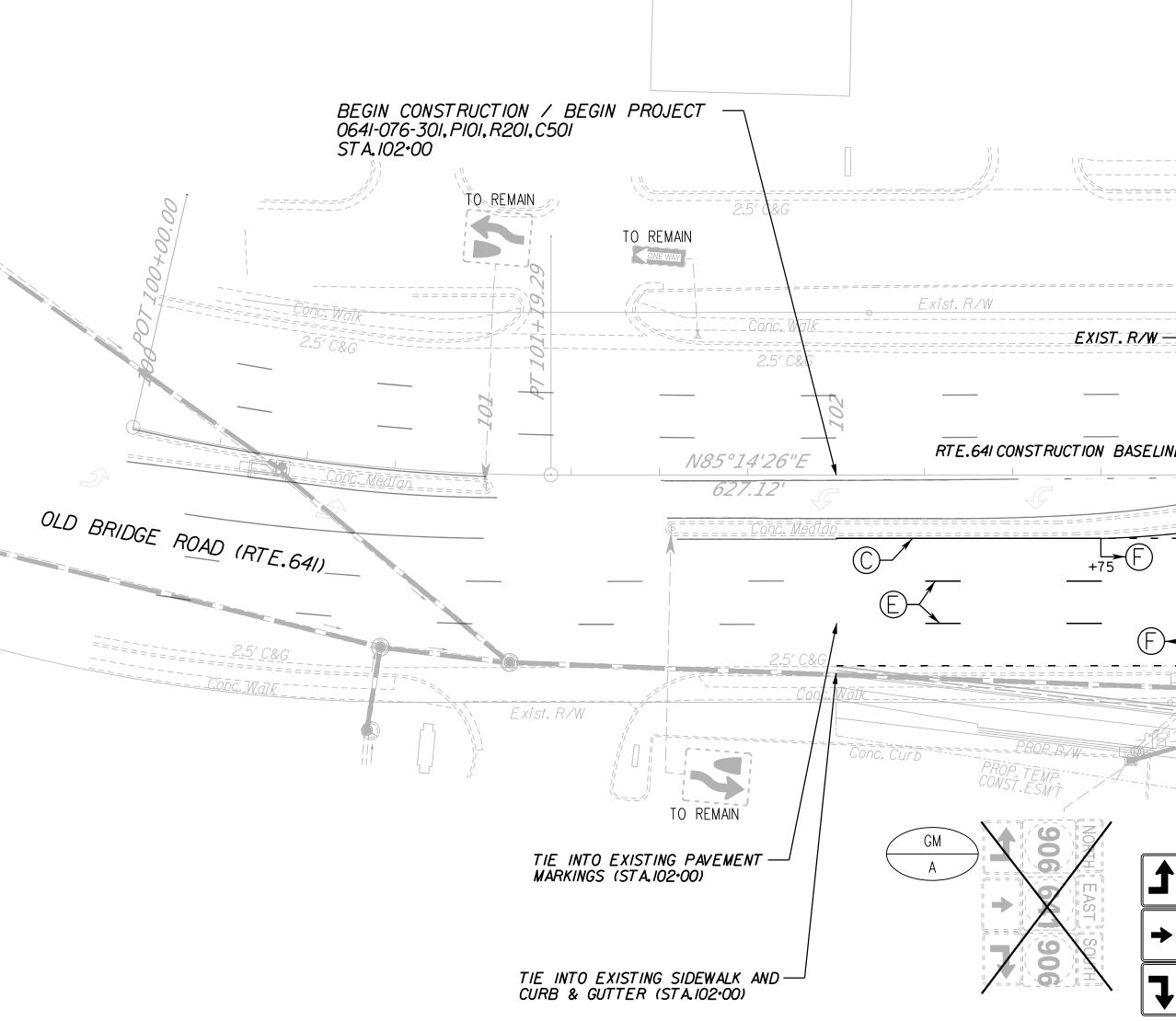
N/A	project 0641-076-301	sheet no. <i>10(2B)</i>

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PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u>

PAVEMENT MARKING & PAVEMENT MARKINGS LEGEND
A TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
B TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
C TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
D TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
E TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE)
F TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)
G TYPE B, CLASS II, WHITE PAVEMENT LINE MARKING, 24" WIDTH
<pre>H TYPE B, CLASS II, WHITE PAVEMENT LINE MARKING, 24" WIDTH, (45 DEGREES, 20' SPACE)</pre>
TYPE B, CLASS II, PAVEMENT SYMBOL MARKING, (SINGLE TURN ARROW LT OR RT)
J TYPE B, CLASS II, PAVEMENT SYMBOL MARKING,(DOUBLE TURN ARROW THRU/LT OR RT)
K TYPE B, CLASS II, WHITE PAVEMENT LINE MARKING, 24" WIDTH (10' WIDTH, 2' SPACE)
<pre>Type b, class ii, pavement message marking,("only")</pre>

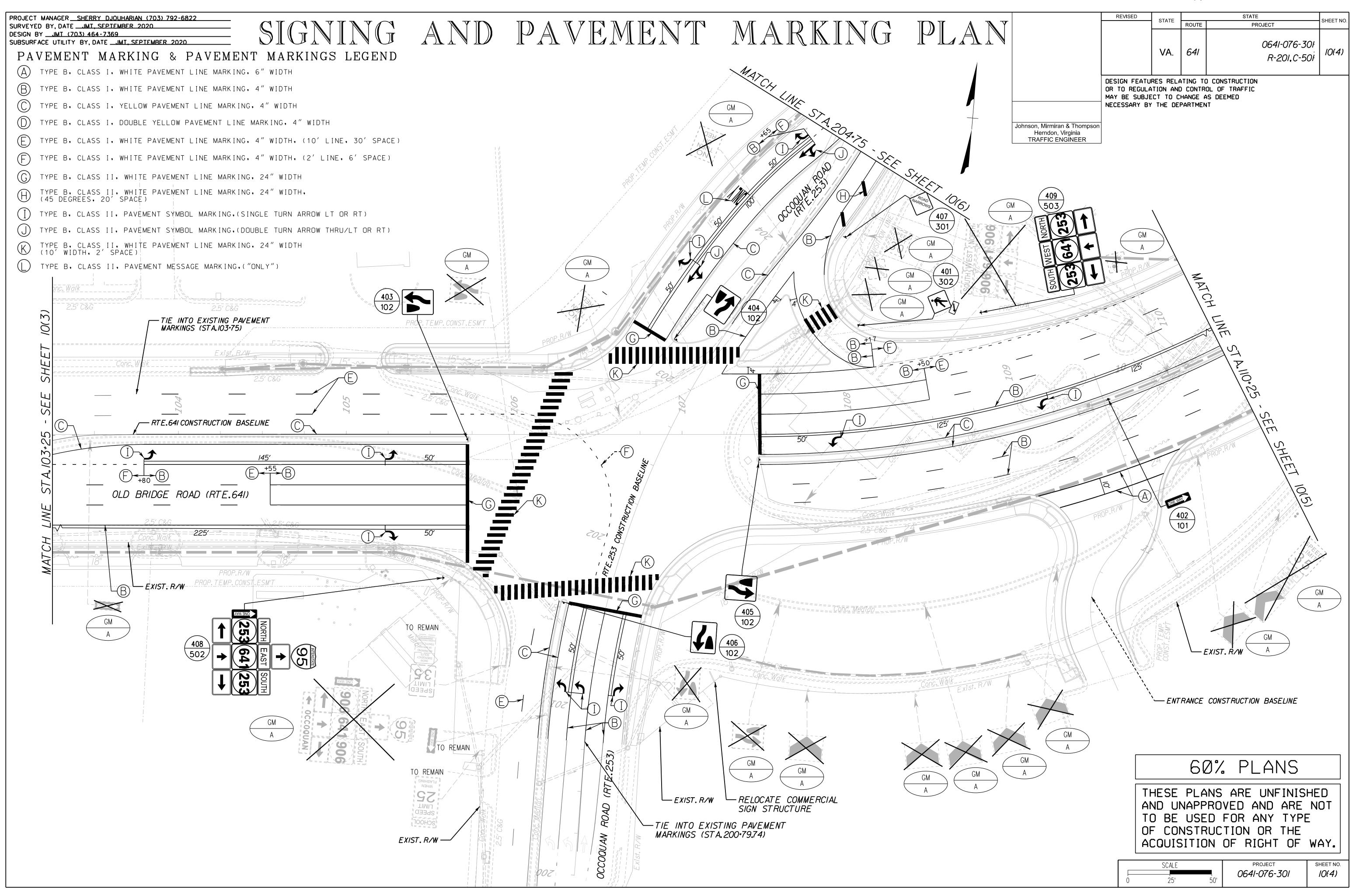
# SIGNING AND PAVEMENT MARKING PLA



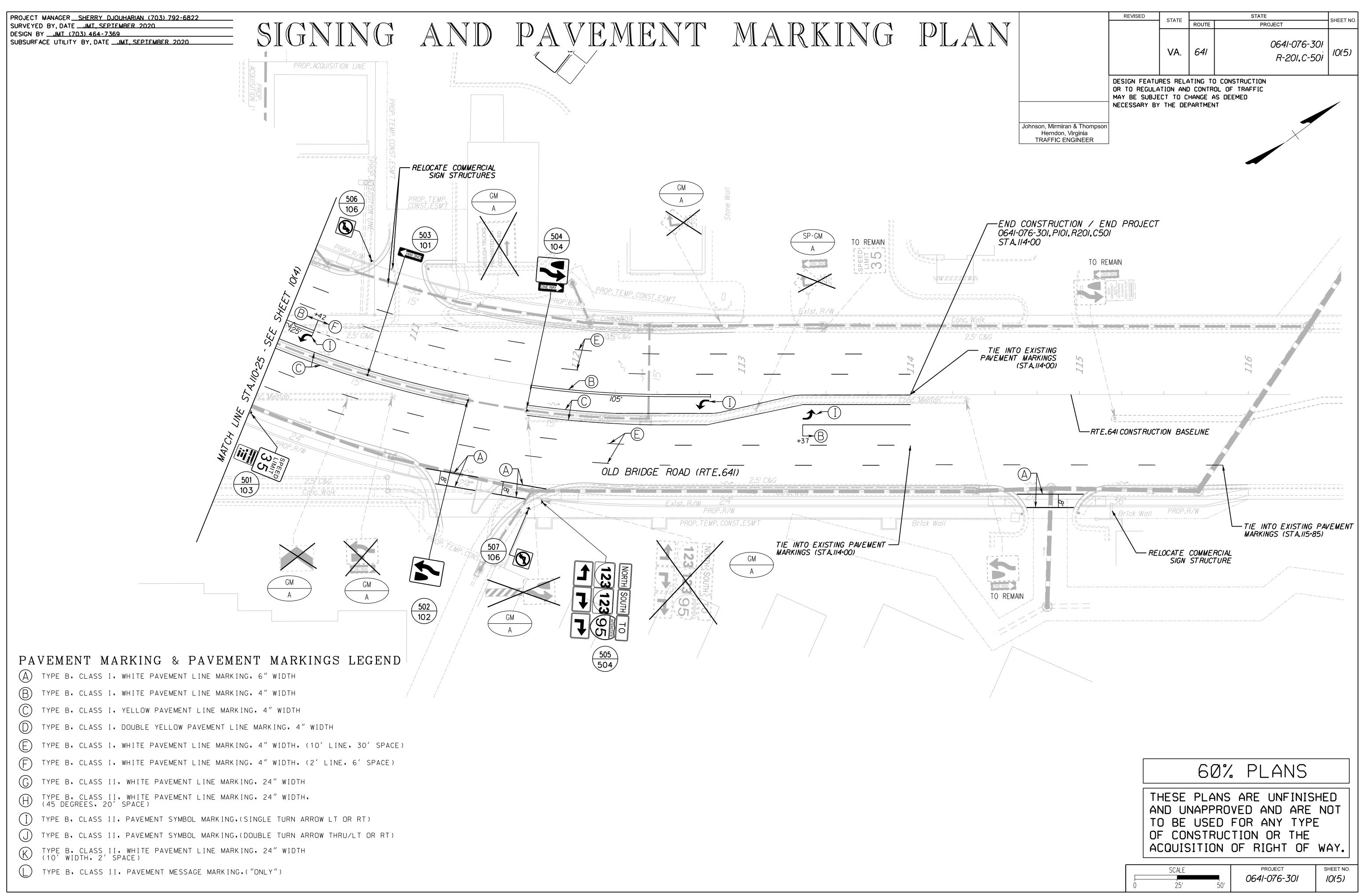
# dll5553lO(3).dgn Plotted By: jthompson

		REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
			VA.	641	0641-076-301 R-201,C-501	10(3)
			ATION AND	) CONTRO	CONSTRUCTION L OF TRAFFIC	
	Johnson, Mirmiran & Thompson	NECESSARY B				
	Herndon, Virginia TRAFFIC ENGINEER					
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	T 10(4)					
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				60	)% PLANS	
		A	ND UI		NS ARE UNFINISHE ROVED AND ARE N D FOR ANY TYPE	
		0	F COI	NSTR	UCTION OR THE	
		A	COOLE	SITIO	N OF RIGHT OF W	AY.

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dll5553lO(4).dgn Plotted By: jthompson



dll5553l0(5).dgn Plotted By: jthompson

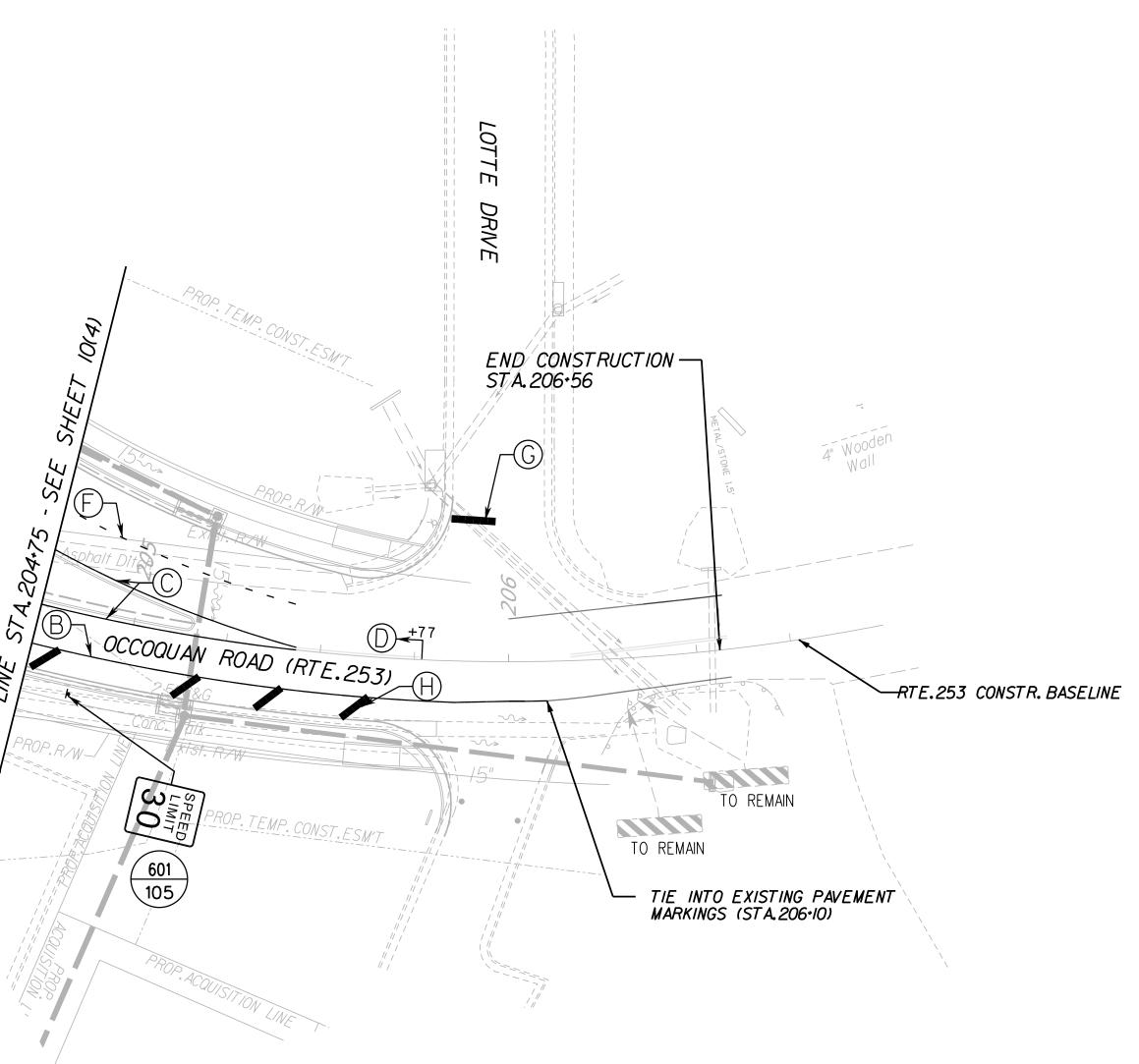
PROJECT MANAGER <u>SHERRY DJOUHARIAN (703) 792-6822</u> SURVEYED BY, DATE <u>JMT, SEPTEMBER 2020</u> DESIGN BY <u>JMT (703) 464-7369</u> SUBSURFACE UTILITY BY, DATE <u>JMT, SEPTEMBER 2020</u> \_\_\_\_



MATCH

PAVEMENT MARKING & PAVEMENT MARKINGS LEGEND	
A TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH	
B TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH	
C TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH	
D TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH	
E TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (10' LINE, 30' SPACE	)
F TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH, (2' LINE, 6' SPACE)	
G TYPE B, CLASS II, WHITE PAVEMENT LINE MARKING, 24" WIDTH	
<pre>H TYPE B, CLASS II, WHITE PAVEMENT LINE MARKING, 24" WIDTH, (45 DEGREES, 20' SPACE)</pre>	
TYPE B, CLASS II, PAVEMENT SYMBOL MARKING, (SINGLE TURN ARROW LT OR RT)	
J TYPE B, CLASS II, PAVEMENT SYMBOL MARKING,(DOUBLE TURN ARROW THRU/LT OR RT)	
K TYPE B, CLASS II, WHITE PAVEMENT LINE MARKING, 24" WIDTH (10' WIDTH, 2' SPACE)	
TYPE B, CLASS II, PAVEMENT MESSAGE MARKING, ("ONLY")	

# SIGNING AND PAVEMENT MARKING PLA



### dll5553l0(6).dgn Plotted By: jthompson

		REVISED	STATE		STATE					
NΥ			STATE	ROUTE	PROJECT	SHEET NO.				
			VA.	641	0641-076-301 R-201,C-501	10(6)				
		OR TO REGULA MAY BE SUBJE	TION AND	RELATING TO CONSTRUCTION N AND CONTROL OF TRAFFIC TO CHANGE AS DEEMED E DEPARTMENT						
	Johnson, Mirmiran & Thompson Herndon, Virginia TRAFFIC ENGINEER									

	60% PLANS	
	THESE PLANS ARE UNFINIS AND UNAPPROVED AND ARE TO BE USED FOR ANY TYP OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF	NOT E
0	SCALE         PROJECT           25'         50'	SHEET NO. 10(6)