FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
URBAN MINOR ARTERIAL-UNDIVIDED-LEVEL-40 MPH MIN. DES. SPEED	
SHOULDERS HILL ROAD, VA 626	Fr: BRIDGE RD. (RTE. 17) To: 0.35 MILES SOUTH OF BRIDGE RD. (RTE. 17)
ADT (2016)	17,000
ADT (2042)	25,000
DHV	1,450
D (%) (design hour)	61
T (%) (design hour)	1.0
V (MPH)	❀

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

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
URBAN LOCAL ROADWAY-UNDIVIDED-LEVEL-25 MPH MIN. DES. SPEED	
KNOTTS KNECK RD.	Fr: BRIDGE RD. (RTE. 17) To: 0.035 MILES NORTH OF BRIDGE RD. (RTE. 17)
ADT (2016)	1,500
ADT (2040)	3,800
DHV	190
D (%) (design hour)	Unknown
T (%) (design hour)	1.0
V (MPH)	❀

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

Suffolk
VIRGINIA

FEDERAL AID NUMBERS

STP-5A03(769)
STP-5A03(900)
STP-5A03(901)

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

BRIDGE ROAD AND SHOULDERS HILL ROAD INTERSECTION IMPROVEMENTS

0626-061-324, P101, R201

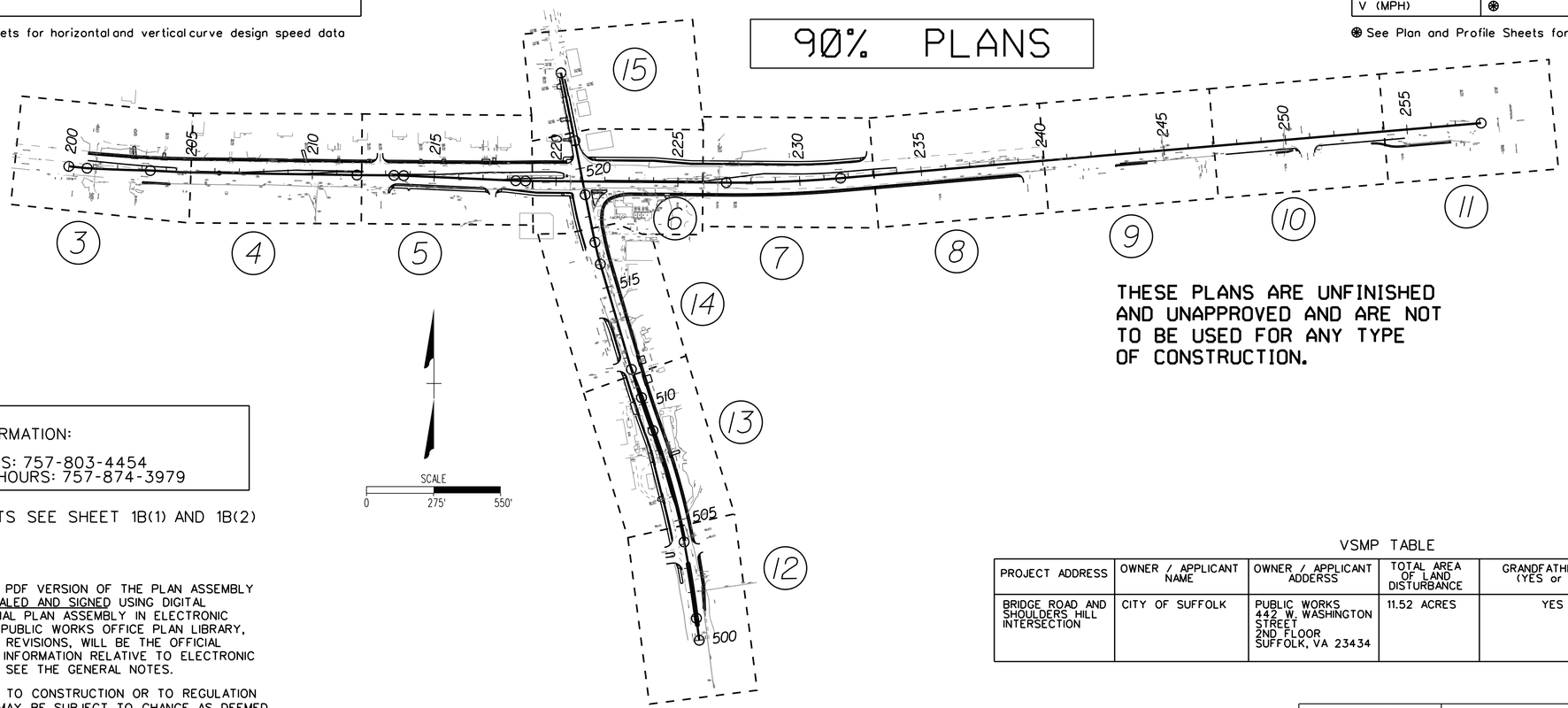
90% PLANS

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
URBAN PRINCIPAL ARTERIAL-UNDIVIDED-LEVEL-45 MPH MIN. DES. SPEED	
BRIDGE ROAD US 17	Fr: 0.4 MILES WEST OF SHOULDERS HILL RD. (RTE. 626) To: SHOULDERS HILL ROAD (RTE. 626)
ADT (2016)	27,000
ADT (2042)	52,000
DHV	2,742
D (%) (design hour)	58
T (%) (design hour)	1.0
V (MPH)	❀

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

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
URBAN PRINCIPAL ARTERIAL-UNDIVIDED-LEVEL-45 MPH MIN. DES. SPEED	
BRIDGE ROAD US 17	Fr: SHOULDERS HILL ROAD (RTE. 626) To: 0.34 MILES EAST OF SHOULDERS HILL ROAD (RT. 626)
ADT (2016)	35,000
ADT (2042)	66,000
DHV	4,155
D (%) (design hour)	60
T (%) (design hour)	1.0
V (MPH)	❀

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



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

LOCALLY ADMINISTERED PROJECTS	
CITY OF SUFFOLK, VIRGINIA	
L.J. HANSEN, P.E. RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION/TOTAL TAKES	
DATE	ACTING DIRECTOR, PUBLIC WORKS
L.J. HANSEN, P.E. RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION/PARTIAL TAKES	
DATE	ACTING DIRECTOR, PUBLIC WORKS
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DIRECTOR PUBLIC WORKS

HRSD FILE NO. 3974
HRSD CONTACT INFORMATION:
CHRIS EVERTON
DURING OFFICE HOURS: 757-803-4454
EMERGENCY/ NIGHT HOURS: 757-874-3979

FOR INDEX OF SHEETS SEE SHEET 1B(1) AND 1B(2)

VSMP TABLE

PROJECT ADDRESS	OWNER / APPLICANT NAME	OWNER / APPLICANT ADDERSS	TOTAL AREA OF LAND DISTURBANCE	GRANDFATHERED? (YES or NO)	VSMP DESIGN CRITERIA (IIB or IIC)	WATERSHED / HUC CODE
BRIDGE ROAD AND SHOULDERS HILL INTERSECTION	CITY OF SUFFOLK	PUBLIC WORKS 442 W. WASHINGTON STREET 2ND FLOOR SUFFOLK, VA 23434	11.52 ACRES	YES	IIC	HAMPTON ROADS / 02080208

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

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL (REV. 1) AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

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FHWA 534 DATA 33104

POPULATION 84,585 (2010 CENSUS)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
0626-061-324	PE-101	STP-5A03(769)		69050	5,645	1.07	5,645	1.07	PREL. ENGR.	FROM: .40 MILES W. OF SHOULDERS HILL RD TO: 1.07 MILES E. OF SHOULDERS HILL RD
	RW-201	STP-5A03(900)		69050	3,756	0.71	3,756	0.71	RIGHT OF WAY	FROM: 0.37 MILES W. OF SHOULDERS HILL RD TO: 0.34 MILES E. OF SHOULDERS HILL RD
	C-501	STP-5A03(901)	F000	69050	5,645	1.07	5,645	1.07	CONSTRUCTION	FROM: .40 MILES W. OF SHOULDERS HILL RD TO: 1.07 MILES E. OF SHOULDERS HILL RD

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

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CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
TITLE SHEET

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 1

3:54:15 PM
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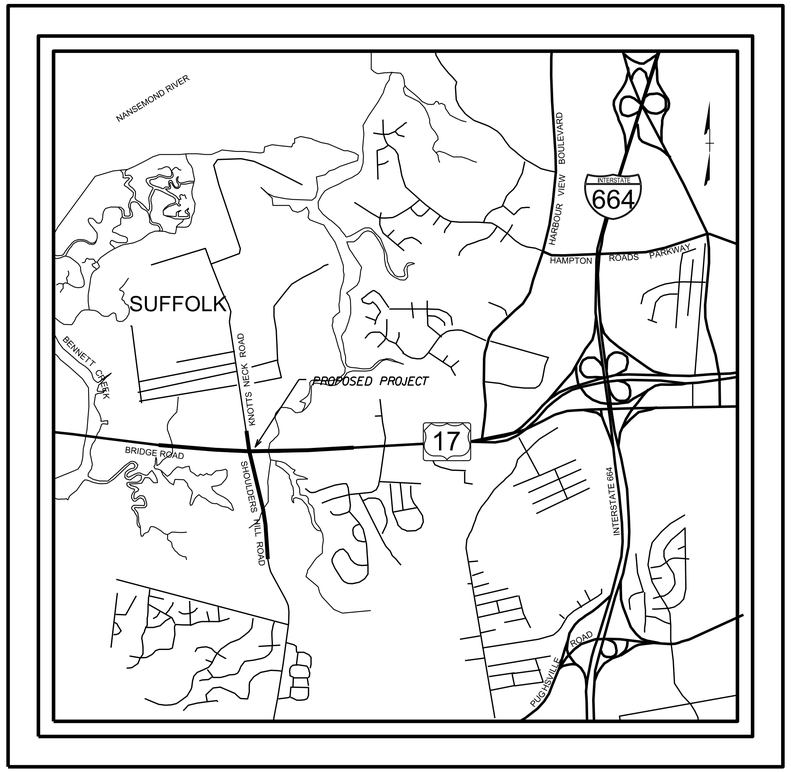
PROJECT LOCATION MAP
CITY OF SUFFOLK, VIRGINIA



SCALE: 1" = 2,000'

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	TR, Trav.	Traverse Point
	GPS	NXL Control Monument
	BM	Benchmark
N90°00'00"W	SBL	Survey Baseline
	BRDG	Bridge
	EP	Edge of Pavement
		Edge of Driveway
	C&G	Curb / Curb and Gutter
		Shoulder of Road
Solid White Line		Pavement Striping / Marking
	S/W	Public Sidewalks
		Private Walks
		Steps
	Bldg.	Building, Roof line, Porch
		Fence
		Cemetery Boundary with Grave Markers
		Woods Line
		Shrub Line
		Tree, Shrub
		Miscellaneous Landscape Features
		Walls
		Signs
	BP	Bollard Posts, Posts
		Yard Lights
M	MB	Mail Box
		Flag
	GR	Guardrail
	JB	Jersey Barrier
		Hydrology Features
		Conc. V-Ditch, Paved Ditches
	MH, DI	Storm Manhole, Drop Inlet
	RCP,CMP,CPP	Reinforced Concrete Pipe, Corrugated Metal Pipe, Corrugated Plastic Pipe
		Drain Field, Well, Spigot
		Railroad Tracks
	RRMP	Railroad Mile Post
	RRSP, RRP	Railroad Signal Pole, Railroad Utility Pole
Existing R/W	R/W	Right of Way Line
	R/W MON	Right of Way Pin, Right of Way Monument
	PL, P/L	Property Line
		Connected Property Symbol
	IRF, IPF PKF, PM	Iron Rod Found, Iron Pipe Found PK Nail Found, Property Monument
		State Boundary
		County Boundary
		City Boundary
	L/A	Limited Access Easement
	PERM ESMT	Permanent Easement
	TEMP ESMT	Temporary Easement
	DRAIN ESMT	Drainage Easement
	UTIL ESMT	Utility Easement
		Prescriptive Easement
100		5' Index Contour
99		1' Interval Contour
× 101.5		Spot Shot
WL		Wetland Boundary
AB200		Wetland Flagging
	TH BH BORE	Test Hole, Bore Hole, Boring

W	Water Line
W Duct	Water Line Duct
	Water Valve
	Water Meter
W	Water Manhole
	Fire Hydrant
CATV	Underground Television Cable
CATV Duct	Underground Television Cable Duct
CAFO	Fiber Optic Cable Television
	Television Hand Hole
	Television Pedestal
TV	TV Manhole
T/Tg	Underground Telephone Cable
T/Tg Duct	Underground Telephone Cable Duct
TFO	Telephone Fiber Optic
FO	Underground Fiber Optic
FO Duct	Underground Fiber Optic Duct
	Fiber Optic Marker
T	Telephone Pedestal
T	Telephone Manhole
	Telephone Pole
T	Telephone Hand Hole
TC	Underground Traffic Control
TC Duct	Underground Traffic Control Duct
TCFO	Traffic Control Fiber Optic
TC	Traffic Control Hand Hole
TC	Traffic Control Manhole
	Traffic Signal Pole
E	Underground Power Cable
E Duct	Underground Power Cable Duct
	Power Pole
E	Electric Box
E	Electric Manhole
	Combination Pole
	Light Pole
	Electric Meter
E	Electric Hand Hole
G	Gas Line
G Duct	Gas Line Duct
G	Gas Manhole
	Gas Valve
	Gas Meter
	Gas Well
SFM	Sanitary Force Main
	Sanitary Force Main Valve
S	Gravity Sewer
S	Sanitary Manhole
	Sewer Clean Out
	Storm Manhole
	Rail Road Signal / Gate
	Rail Road Telephone Pole
E	Utility End Point
VS	Vacuum Sewer
FUEL	Fuel Line (above or below ground)
CHEM	Chemical Line (above or below ground)
Unk	Unknown Utility Line
(DATUR)	Depicted According To Utility Records
(AATUR)	Abandoned According To Utility Records
(AATEJ)	Abandoned According To Field Inspection

NANSEMOND 1665 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
LOCATION MAP, LEGEND, AND ABBREVIATIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 1A

3:54:17 PM
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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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1B(1) - 1B(2)	INDEX OF SHEETS
1C	RIGHT OF WAY DATA SHEET
1D	REVISION DATA SHEET (NOT INCLUDED IN THIS SUBMITTAL)
1E	SURVEY ALIGNMENT DATA SHEET
1F	CONSTRUCTION ALIGNMENT DATA SHEET
1G	UNDERGROUND UTILITIES TEST HOLE INFORMATION
1H(1), 1H(2), etc.	MAINTENANCE OF TRAFFIC/ SEQUENCE OF CONSTRUCTION PLANS
2	GENERAL NOTES
2(1) - 2(2)	EROSION AND SEDIMENT CONTROL NOTES
2A(1) - 2A(5)	TYPICAL SECTIONS
2B	DEMOLITION OF BUILDING
2D(1) - 2D(2)	DRAINAGE DESCRIPTIONS
2D(3) - 2D(6)	STORM SEWER PROFILES
2D(7) - 2D(11)	STORMWATER MANAGEMENT DETAILS
2E(1) - 2E(15)	EXISTING CONDITIONS
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3B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 100+00 - 105+00
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3RW	RIGHT OF WAY PLAN STA 100+00 - 105+00
4	PLAN SHEET STA STA 105+00 - 112+00
4(1)	DEMOLITION PLAN STA 105+00 - 112+00
4(2)	CONSTRUCTION LAYOUT PLAN STA 105+00 - 112+00 (NOT INCLUDED IN THIS SUBMITTAL)
4A	PROFILE SHEET STA 105+00 - 112+00
4B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 105+00 - 112+00
4C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 105+00 - 112+00
4RW	RIGHT OF WAY PLAN STA 105+00 - 112+00
5	PLAN SHEET STA STA 112+00 - 119+00
5(1)	DEMOLITION PLAN STA 112+00 - 119+00
5(2)	CONSTRUCTION LAYOUT PLAN STA 112+00 - 119+00 (NOT INCLUDED IN THIS SUBMITTAL)
5A	PROFILE SHEET STA 112+00 - 119+00
5A(1)	PROFILE SHEET STA 112+00 - 119+00
5B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 112+00 - 119+00
5C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 112+00 - 119+00
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6	PLAN SHEET STA 119+00 - 126+00; STA 517+25 - 521+50
6(1)	DEMOLITION PLAN STA 119+00 - 126+00; STA 517+25 - 521+50
6(2)	CONSTRUCTION LAYOUT PLAN STA 119+00 - 126+00; STA 517+25 - 521+50 (NOT INCLUDED IN THIS SUBMITTAL)
6A	PROFILE SHEET STA 119+00 - 126+00
6A(1)	PROFILE SHEET STA 517+25 - 521+50
6B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 119+00 - 126+00; STA 517+25 - 521+50
6C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 119+00 - 126+00; STA 517+25 - 521+50
6RW	RIGHT OF WAY PLAN STA 119+00 - 126+00; STA 517+25 - 521+50
7	PLAN SHEET STA 126+00 - 133+00
7(1)	DEMOLITION PLAN STA 126+00 - 133+00
7(2)	CONSTRUCTION LAYOUT PLAN STA 126+00 - 133+00 (NOT INCLUDED IN THIS SUBMITTAL)
7A	PROFILE SHEET STA 126+00 - 133+00
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8	PLAN SHEET STA STA 133+00 - 140+00
8(1)	DEMOLITION PLAN STA 133+00 - 140+00 ; STA 517+25 - 521+50
8(2)	CONSTRUCTION LAYOUT PLAN STA 133+00 - 140+00 (NOT INCLUDED IN THIS SUBMITTAL)
8A	PROFILE SHEET STA 133+00 - 140+00
8B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA STA 133+00 - 140+00
8C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 133+00 - 140+00
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9C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 140+00 - 147+00
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10	PLAN SHEET STA STA 147+00 - 154+00
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10(2)	CONSTRUCTION LAYOUT PLAN STA 147+00 - 154+00 (NOT INCLUDED IN THIS SUBMITTAL)
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10C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 147+00 - 154+00
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11	PLAN SHEET STA STA 154+00 - 158+00
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11(2)	CONSTRUCTION LAYOUT PLAN STA 154+00 - 158+00 (NOT INCLUDED IN THIS SUBMITTAL)
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12(1)	DEMOLITION PLAN STA 500+00 - 504+75
12(2)	CONSTRUCTION LAYOUT PLAN STA 500+00 - 504+75 (NOT INCLUDED IN THIS SUBMITTAL)
12A	PROFILE SHEET STA 500+00 - 504+75
12B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 500+00 - 504+75
12C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 500+00 - 504+75
12RW	RIGHT OF WAY PLAN STA 500+00 - 504+75

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
INDEX OF SHEETS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 1B(1)

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13	PLAN SHEET STA STA 504+75 - 511+25
13(1)	DEMOLITION PLAN STA 504+75 - 511+25
13(2)	CONSTRUCTION LAYOUT PLAN STA 504+75 - 511+25 (NOT INCLUDED IN THIS SUBMITTAL)
13A	PROFILE SHEET STA 504+75 - 511+25
13B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 504+75 - 511+25
13C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 504+75 - 511+25
13RW	RIGHT OF WAY PLAN STA 504+75 - 511+25
14	PLAN SHEET STA STA 511+25 - 517+25
14(1)	DEMOLITION PLAN STA 511+25 - 517+25
14(2)	CONSTRUCTION LAYOUT PLAN STA 511+25 - 517+25 (NOT INCLUDED IN THIS SUBMITTAL)
14A	PROFILE SHEET STA 511+25 - 517+25
14B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 511+25 - 517+25
14C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 511+25 - 517+25
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15(1)	DEMOLITION PLAN STA 521+50 - 524+00
15(2)	CONSTRUCTION LAYOUT PLAN STA 521+50 - 524+00 (NOT INCLUDED IN THIS SUBMITTAL)
15A	PROFILE SHEET STA 521+50 - 524+00
15B	EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 521+50 - 524+00
15C	EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 521+50 - 524+00
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18(1) - 18(15)	LIGHTING PLANS- See Sheet 18(1) for Index (NOT INCLUDED IN THIS SUBMITTAL)
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CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
INDEX OF SHEETS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 1B(2)

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PRELIMINARY
RIGHT OF WAY DATA SHEET

Color / No Color	Locality Owned ?	PARCEL #	LANDOWNER	SHEET NO.	PARCEL AREA	AREA (Areas will be shown in acres to 4 decimal places (x.xxxx). Areas will be shown to square feet (x,xxx).)															
						FEE TAKING		FEE REMAINDER		PERMANENT EASEMENTS								TEMPORARY EASEMENTS			
										PUBLIC NOISE/ DRAINAGE		PRIVATE UTILITY		PUBLIC UTILITY		TRAFFIC CONTROL		ENTRANCES		CONSTRUCTION	
Plat Prepared					ACRES OR SQ. FEET	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES
N	N	001	GEORGE K. EBERWINE, JR.	3	31.8700 AC.	-	0.0000 AC.	1,388,257	31.8700 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	002	THE DIANNE WILLS HEATH REVOCABLE TRUST	3	7.3000 AC.	-	0.0000 AC.	317,988	7.3000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	003	PLJ MORGAN PROPERTIES LLC	3 & 4	1.6500 AC.	-	0.0000 AC.	71,874	1.6500 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	004	SHELIA E. SLOCUM & MARK A. SLOCUM	3	1.9300 AC.	-	0.0000 AC.	84,071	1.9300 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	488	0.0112 AC.
N	N	005	BCVC PROPERTIES, LLC	3	7.6400 AC.	-	0.0000 AC.	332,798	7.6400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	006	KATHERINE J. HOLLAND	4	0.9100 AC.	-	0.0000 AC.	39,640	0.9100 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	007	ROBERT V. MIZELLE & JUDITH S. MIZELLE	4	1.5200 AC.	-	0.0000 AC.	66,211	1.5200 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	1,280	0.0294 AC.	947	0.0217 AC.
N	N	008	ROY H. BOYLES	4	0.6700 AC.	-	0.0000 AC.	29,185	0.6700 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	56	0.0013 AC.	472	0.0108 AC.
N	N	009	TAA SUFFOLK BRANCH/CAR CARE CENTER PROPERTY, LLC	3 & 4	5.4600 AC.	-	0.0000 AC.	237,838	5.4600 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	010	SUFFOLK FIRST BANK	4	1.3000 AC.	-	0.0000 AC.	56,628	1.3000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	011	JOHN M. NEMISH & JANET P. NEMISH	4 & 5	0.6300 AC.	237	0.0054 AC.	27,206	0.6246 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	353	0.0081 AC.
N	N	012	PERRY B. HOLLAND & KAREN J. HOLLAND	5	0.6200 AC.	349	0.0080 AC.	26,658	0.6120 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	397	0.0091 AC.
N	N	013	HENRY A. ELLING & CANDACE LYNN ELLING JOINT REVOCABLE TRUST	5	0.5400 AC.	-	0.0000 AC.	23,522	0.5400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	53	0.0012 AC.	426	0.0098 AC.
N	N	014	LELAND H. WHITE & BEATRICE M. WHITE	5	0.5400 AC.	-	0.0000 AC.	23,522	0.5400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	96	0.0022 AC.	489	0.0112 AC.
N	N	015	LETICIA D. LONG & RUSSELL LONG, JR.	5	0.5100 AC.	-	0.0000 AC.	22,216	0.5100 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	219	0.0050 AC.	446	0.0102 AC.
N	N	016	BROTHERS INVESTMENT GROUP CORPORATION	5	0.4400 AC.	-	0.0000 AC.	19,166	0.4400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	252	0.0058 AC.	469	0.0108 AC.
N	N	017	BENNETTS CREEK OUTPARCEL ASSOCIATES, L.C.	4 & 5	1.0400 AC.	-	0.0000 AC.	45,302	1.0400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	018	BENNETTS CREEK CROSSING, II, L.C.	5	7.6200 AC.	-	0.0000 AC.	331,927	7.6200 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	019	BENNETTS CREEK CROSSING, L.C.	5	3.5000 AC.	-	0.0000 AC.	152,460	3.5000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	1,213	0.0279 AC.	-	0.0000 AC.
N	N	020	BENNETTS CREEK CROSSING L.C.	5	1.0000 AC.	165	0.0038 AC.	43,395	0.9962 AC.	40	0.0009 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	1,281	0.0294 AC.
N	N	021	AUTOZONE DEVELOPMENT LLC	5	1.4100 AC.	2,178	0.0500 AC.	59,242	1.3600 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	678	0.0156 AC.	1,392	0.0320 AC.
N	N	022	LANCASTER FARMS, INC.	5 & 6	0.4800 AC.	-	0.0000 AC.	20,909	0.4800 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	706	0.0162 AC.
N	N	023	LANCASTER FARMS, INC.	6 & 15	0.6000 AC.	736	0.0169 AC.	25,400	0.5831 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	472	0.0108 AC.	2,360	0.0542 AC.
N	N	024	THE PAIGE TRUST	5, 6, & 14	1.9200 AC.	6,129	0.1407 AC.	77,506	1.7793 AC.	-	0.0000 AC.	1,724	0.0396 AC.	-	0.0000 AC.	-	0.0000 AC.	360	0.0083 AC.	4,138	0.0950 AC.
N	N	025	MLP PROPERTIES, LLC	6 & 14	3.8100 AC.	7,298	0.1675 AC.	158,665	3.6425 AC.	605	0.0139 AC.	15,231	0.3497 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	8,714	0.2000 AC.
N	N	026	JOHN J. DODSON, INC.	6 & 14	1.5500 AC.	67,518	1.5500 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	027	HBKC, LLC	7	2.9600 AC.	1,520	0.0349 AC.	127,418	2.9251 AC.	988	0.0227 AC.	13,113	0.3010 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	7,485	0.1718 AC.
N	N	028	BRIDGE ROAD SEVENTEEN, LLC	6, 7, 8, &14	20.3500 AC.	7,012	0.1610 AC.	879,434	20.1890 AC.	3,748	0.0860 AC.	26,463	0.6075 AC.	-	0.0000 AC.	-	0.0000 AC.		0.0000 AC.	13,589	0.3120 AC.
N	N	029	BEC INVESTORS L.L.C.	7 & 8	20.2600 AC.	-	0.0000 AC.	165,964	3.8100 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	1,250	0.0287 AC.	564	0.0130 AC.
N	N	030	WINDWARD LANE, LLC	8	0.4800 AC.	-	0.0000 AC.	20,909	0.4800 AC.	-	0.0000 AC.	600	0.0138 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	138	0.0032 AC.
N	N	031	SHIRLEY AND ASSOCIATES, L.P.	8 & 9	4.0900 AC.	-	0.0000 AC.	178,160	4.0900 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	032	A. J. BAROT	9	1.2800 AC.	-	0.0000 AC.	55,757	1.2800 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	033	A. J. BAROT	9	2.3600 AC.	-	0.0000 AC.	102,802	2.3600 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	034	BAROT AND MILLER, LLC	10	1.0800 AC.	-	0.0000 AC.	47,045	1.0800 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	035	CITY OF SUFFOLK	10	7.0000 AC.	-	0.0000 AC.	304,920	7.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	036	MERRIMAC LANDING, LLC	11	2.3000 AC.	-	0.0000 AC.	100,188	2.3000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	037	THE PERGOLA GROUP, L.P.	11	30.8500 AC.	-	0.0000 AC.	1,343,826	30.8500 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	038	BISHOP (CHIEF RABBI) PHILLIP E. McNEIL OF THE CHURCH OF GOD AND SAINTS OF CHRIST	11	19.4700 AC.	-	0.0000 AC.	848,113	19.4700 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	039	BENNETT'S CREEK SQUARE PROPERTY OWNERS' ASSOCIATION. INC.	12	11.0400 AC.	366	0.0084 AC.	480,536	11.0316 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	755	0.0173 AC.
N	N	040	SUFFOLK SENIOR, LP	12 & 13	15.0000 AC.	-	0.0000 AC.	653,400	15.0000 AC.	-	0.0000 AC.	6,302	0.1447 AC.	-	0.0000 AC.	-	0.0000 AC.	931	0.0214 AC.	784	0.0180 AC.
N	N	041	HHHUNT CORPORTATION	12	13.3000 AC.	-	0.0000 AC.	579,348	13.3000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	042	HHHUNT CORPORTATION	12	13.3000 AC.	-	0.0000 AC.	579,348	13.3000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	043	FIRST STEP, INC.	12, 13 & 14	4.0300 AC.	15,871	0.3643 AC.	159,676	3.6657 AC.	-	0.0000 AC.	7,125	0.1636 AC.	-	0.0000 AC.	-	0.0000 AC.	99	0.0023 AC.	10,907	0.2504 AC.
N	N	044	HIGH COTTON FOR NORTH SUFFOLK, LLC	13 & 14	3.2300 AC.	12,568	0.2885 AC.	128,131	2.9415 AC.	2,158	0.0495 AC.	16,906	0.3881 AC.	-	0.0000 AC.	-	0.0000 AC.	1,650	0.0379 AC.	14,925	0.3426 AC.
N	N	045	BENNETTS CREEK CROSSING, L.C.	14	1.5700 AC.	2,448	0.0562 AC.	65,941	1.5138 AC.	-	0.0000 AC.	2,481	0.0570 AC.	-	0.0000 AC.	-	0.0000 AC.	1,354	0.0311 AC.	2,285	0.0525 AC.
N	N	046	HARRIS TEETER PROPERTIES LLC	14	8.0000 AC.	-	0.0000 AC.	348,480	8.0000 AC.	-	0.0000 AC.	3,335	0.0766 AC.	-	0.0000 AC.	-	0.0000 AC.	480	0.0110 AC.	-	0.0000 AC.
N	N	047	GARY M. SESSOMS & HELEN T. SESSOMS	14	0.7400 AC.	32,234	0.7400 AC.	-	0.0000 AC.	-	0.0000 AC.	2,195	0.0504 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	048	OPEN DOOR RESTORATION INC.	14	1.0100 AC.	43,996	1.0100 AC.	-	0.0000 AC.	-	0.0000 AC.	2,504	0.0575 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	049	CHARLOTTE T. GRIFFIN	15	0.4400 AC.	-	0.0000 AC.	19,166	0.4400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.
N	N	050	CHARLOTTE T. GRIFFIN	15	0.4400 AC.	-	0.0000 AC.	19,166	0.4400 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	136	0.0031 AC.	-	0.0000 AC.
		TOTALS			271.0400 AC.	200,626	4.6057 AC.	10,889,315	266.4343 AC.	7,539	0.1731 AC.	97,980	2.2493 AC.	-	0.0000 AC.	-	0.0000 AC.	10,580	0.24289 AC.	74,510	1.71052 AC.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY DATA SHEET

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: M. VELASQUEZ
DATE: 5/10/19
DRAWN BY: MSM
DESIGNED BY: MSM
APPROVED BY: WMP
SHEET NO. 1C

3:54:21 PM
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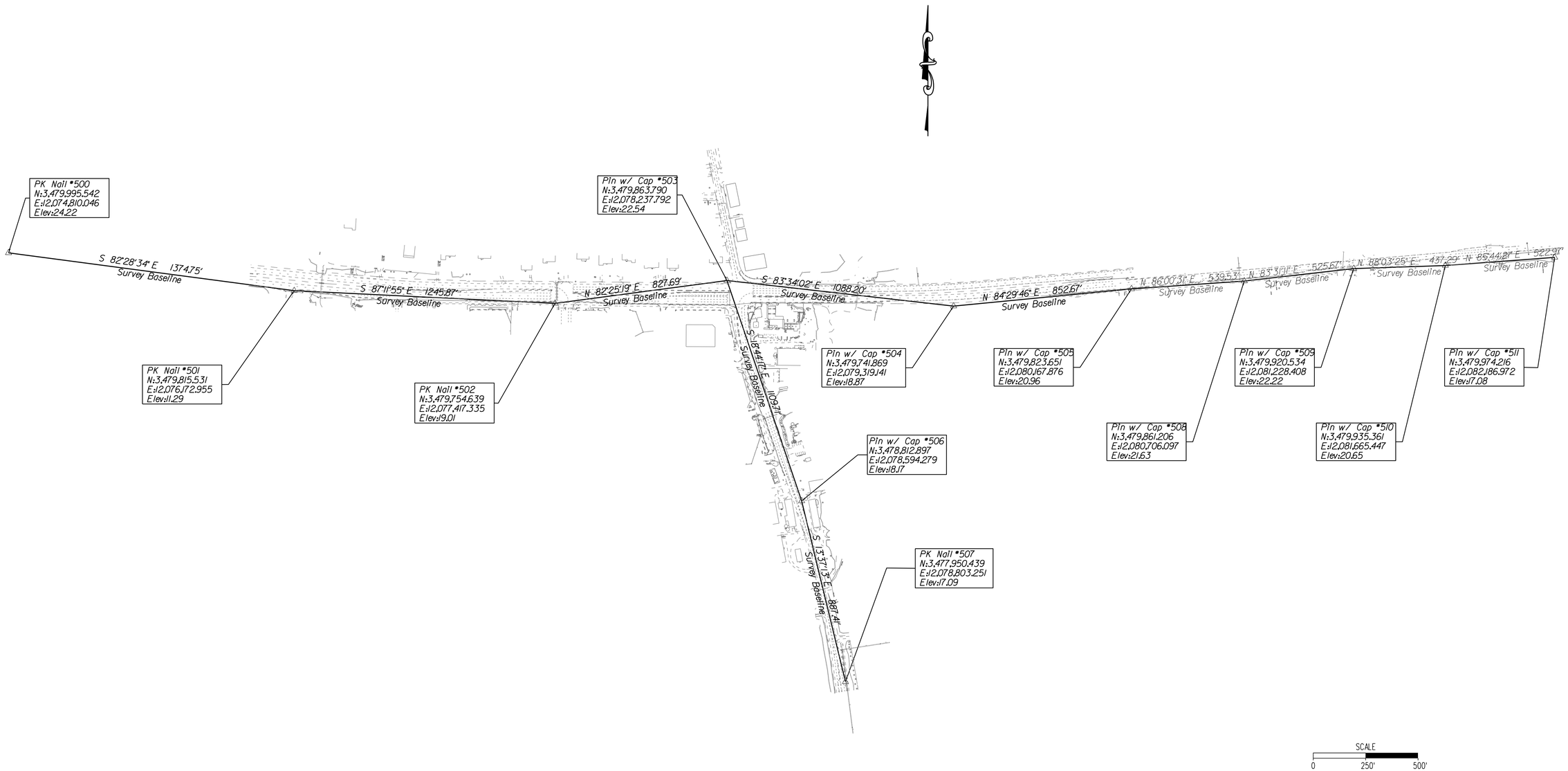

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
SURVEY ALIGNMENT DATA SHEET

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 1E
DATE 5/10/19	APPROVED BY	WMP	

03:55 PM on May 10,2019
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CONSTRUCTION ALIGNMENT DATA SHEET

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

BRIDGE ROAD WESTBOUND (ROUTE 17)

Point WB100 N 3,479,877.73 E 12,076,196.86 Sta 100+00.00

Course from WB100 to PC C-WB01 S 84° 16' 47.45" E Dist 183.41

Curve Data

Curve C-WB01
P.I. Station 104+00.98 N 3,479,837.77 E 12,076,595.84
Delta = 4° 53' 11.6" (LT)
Degree = 1° 07' 25.20"
Tangent = 217.57
Length = 434.88
Radius = 5,099.00
External = 4.64
Long Chord = 434.74
Mid.Ord. = 4.64
P.C. Station 101+83.41 N 3,479,859.45 E 12,076,379.36
P.T. Station 106+18.29 N 3,479,834.60 E 12,076,813.39
C.C. N 3,484,933.06 E 12,076,887.57
Back = S 84° 16' 47.45" E
Ahead = S 89° 09' 59.06" E
Chord Bear = S 86° 43' 23.26" E

Course from PT C-WB01 to WB102 S 89° 09' 59.06" E Dist 562.27

Point WB102 N 3,479,826.42 E 12,077,375.60 Sta 111+80.56

Course from WB102 to PC C-WB02 S 89° 31' 59.47" E Dist 602.27

Curve Data

Curve C-WB02
P.I. Station 117+95.12 N 3,479,821.41 E 12,077,990.14
Delta = 1° 15' 11.32" (LT)
Degree = 5° 05' 50.96"
Tangent = 12.29
Length = 24.58
Radius = 1,124.00
External = 0.07
Long Chord = 24.58
Mid.Ord. = 0.07
P.C. Station 117+82.83 N 3,479,821.51 E 12,077,977.85
P.T. Station 118+07.41 N 3,479,821.58 E 12,078,002.43
C.C. N 3,480,945.48 E 12,077,987.01
Back = S 89° 31' 59.47" E
Ahead = N 89° 12' 49.21" E
Chord Bear = N 89° 50' 24.87" E

Course from PT C-WB02 to PC C-WB03 N 89° 12' 49.21" E Dist 135.81

Curve Data

Curve C-WB03
P.I. Station 119+55.16 N 3,479,823.61 E 12,078,150.17
Delta = 1° 15' 11.32" (RT)
Degree = 5° 15' 06.03"
Tangent = 11.93
Length = 23.86
Radius = 1,091.00
External = 0.07
Long Chord = 23.86
Mid.Ord. = 0.07
P.C. Station 119+43.23 N 3,479,823.45 E 12,078,138.24
P.T. Station 119+67.09 N 3,479,823.51 E 12,078,162.10
C.C. N 3,478,732.55 E 12,078,153.21
Back = N 89° 12' 49.21" E
Ahead = S 89° 31' 59.47" E
Chord Bear = N 89° 50' 24.87" E

Course from PT C-WB03 to PC C-WB04 S 89° 31' 59.47" E Dist 1,006.85

Curve Data

Curve C-WB04
P.I. Station 130+67.86 N 3,479,814.54 E 12,079,262.83
Delta = 5° 22' 48.27" (LT)
Degree = 2° 51' 58.40"
Tangent = 93.92
Length = 187.71
Radius = 1,999.00
External = 2.21
Long Chord = 187.64
Mid.Ord. = 2.20
P.C. Station 129+73.94 N 3,479,815.31 E 12,079,168.91
P.T. Station 131+61.64 N 3,479,822.59 E 12,079,356.41
C.C. N 3,481,814.24 E 12,079,185.20
Back = S 89° 31' 59.47" E
Ahead = N 85° 05' 12.26" E
Chord Bear = N 87° 46' 36.39" E

Course from PT C-WB04 to WB106 N 85° 05' 12.26" E Dist 820.78

Point WB106 N 3,479,892.89 E 12,080,174.17 Sta 139+82.42

BRIDGE ROAD EASTBOUND (ROUTE 17)

Point EB100 N 3,479,845.15 E 12,076,193.59 Sta 200+00.00

Course from EB100 to PC C-EB01 S 84° 16' 47.45" E Dist 74.92

Curve Data

Curve C-EB01
P.I. Station 202+04.88 N 3,479,830.21 E 12,076,397.88
Delta = 2° 20' 32.06" (LT)
Degree = 0° 54' 04.69"
Tangent = 129.95
Length = 259.87
Radius = 6,357.00
External = 1.33
Long Chord = 259.85
Mid.Ord. = 1.33
P.C. Station 200+74.92 N 3,479,837.68 E 12,076,268.14
P.T. Station 203+34.79 N 3,479,828.04 E 12,076,527.82
C.C. N 3,486,184.16 E 12,076,633.68
Back = S 86° 42' 12.98" E
Ahead = S 89° 02' 45.04" E
Chord Bear = S 87° 52' 29.01" E

Curve Data

Curve C-EB02
P.I. Station 204+76.18 N 3,479,819.70 E 12,076,668.96
Delta = 2° 32' 53.70" (LT)
Degree = 0° 54' 04.69"
Tangent = 141.39
Length = 282.73
Radius = 6,357.00
External = 1.57
Long Chord = 282.71
Mid.Ord. = 1.57
P.C. Station 203+34.79 N 3,479,828.04 E 12,076,527.82
P.T. Station 206+17.52 N 3,479,817.64 E 12,076,810.33
C.C. N 3,486,173.97 E 12,076,902.82
Back = S 86° 37' 05.36" E
Ahead = S 89° 09' 59.06" E
Chord Bear = S 87° 53' 32.21" E

Course from PT C-EB02 to EB105 S 89° 09' 59.06" E Dist 565.13

Point EB105 N 3,479,809.42 E 12,077,375.41 Sta 211+82.66

Course from EB105 to PC C-EB04 S 89° 31' 59.47" E Dist 151.73

Curve Data

Curve C-EB04
P.I. Station 213+54.53 N 3,479,808.02 E 12,077,547.27
Delta = 2° 07' 08.18" (RT)
Degree = 5° 15' 40.75"
Tangent = 20.14
Length = 40.27
Radius = 1,089.00
External = 0.19
Long Chord = 40.27
Mid.Ord. = 0.19
P.C. Station 213+34.39 N 3,479,808.19 E 12,077,527.14
P.T. Station 213+74.66 N 3,479,807.11 E 12,077,567.39
C.C. N 3,478,719.22 E 12,077,518.26
Back = S 89° 31' 59.47" E
Ahead = S 87° 24' 51.29" E
Chord Bear = S 88° 28' 25.38" E

Course from PT C-EB04 to PC C-EB05 S 87° 24' 51.29" E Dist 460.04

Curve Data

Curve C-EB05
P.I. Station 218+54.88 N 3,479,785.45 E 12,078,047.12
Delta = 2° 07' 08.18" (LT)
Degree = 5° 15' 06.03"
Tangent = 20.18
Length = 40.35
Radius = 1,091.00
External = 0.19
Long Chord = 40.35
Mid.Ord. = 0.19
P.C. Station 218+34.70 N 3,479,786.36 E 12,078,026.96
P.T. Station 218+75.05 N 3,479,785.28 E 12,078,067.29
C.C. N 3,480,876.25 E 12,078,076.18
Back = S 87° 24' 51.29" E
Ahead = S 89° 31' 59.47" E
Chord Bear = S 88° 28' 25.38" E

Course from PT C-EB05 to PC C-EB06 S 89° 31' 59.47" E Dist 823.47

Curve Data

Curve C-EB06
P.I. Station 229+33.49 N 3,479,776.66 E 12,079,125.70
Delta = 5° 22' 48.27" (LT)
Degree = 1° 08' 44.47"
Tangent = 234.97
Length = 469.59
Radius = 5,001.00
External = 5.52
Long Chord = 469.42
Mid.Ord. = 5.51
P.C. Station 226+98.52 N 3,479,778.58 E 12,078,890.74
P.T. Station 231+68.12 N 3,479,796.79 E 12,079,359.81
C.C. N 3,484,779.41 E 12,078,931.48
Back = S 89° 31' 59.47" E
Ahead = N 85° 05' 12.26" E
Chord Bear = N 87° 46' 36.39" E

Course from PT C-EB06 to EB109 N 85° 05' 12.26" E Dist 819.60

Point EB109 N 3,479,866.98 E 12,080,176.40 Sta 239+87.72

SHOULDERS HILL ROAD

Point SH99 N 3,477,901.48 E 12,078,779.83 Sta 500+00.00

Course from SH99 to PC C-SH99 N 7° 21' 18.59" W Dist 91.06

Curve Data

Curve C-SH99
P.I. Station 502+49.64 N 3,478,149.06 E 12,078,747.88
Delta = 3° 37' 59.15" (LT)
Degree = 1° 08' 45.30"
Tangent = 158.58
Length = 317.05
Radius = 5,000.00
External = 2.51
Long Chord = 316.99
Mid.Ord. = 2.51
P.C. Station 500+91.06 N 3,477,991.79 E 12,078,768.18
P.T. Station 504+08.11 N 3,478,304.73 E 12,078,717.65
C.C. N 3,477,351.69 E 12,073,809.32
Back = N 7° 21' 18.59" W
Ahead = N 10° 59' 17.73" W
Chord Bear = N 9° 10' 18.16" W

Curve Data

Curve C-SH100
P.I. Station 506+45.90 N 3,478,538.16 E 12,078,672.32
Delta = 9° 14' 53.11" (LT)
Degree = 1° 56' 55.81"
Tangent = 237.79
Length = 474.54
Radius = 2,940.00
External = 9.60
Long Chord = 474.03
Mid.Ord. = 9.57
P.C. Station 504+08.11 N 3,478,304.73 E 12,078,717.65
P.T. Station 508+82.65 N 3,478,761.27 E 12,078,590.08
C.C. N 3,477,744.34 E 12,075,831.55
Back = N 10° 59' 17.73" W
Ahead = N 20° 14' 10.84" W
Chord Bear = N 15° 36' 44.29" W

Curve Data

Curve C-SH101
P.I. Station 509+54.37 N 3,478,828.56 E 12,078,565.27
Delta = 2° 04' 12.64" (RT)
Degree = 1° 26' 36.24"
Tangent = 71.73
Length = 143.42
Radius = 3,969.50
External = 0.65
Long Chord = 143.42
Mid.Ord. = 0.65
P.C. Station 508+82.65 N 3,478,761.27 E 12,078,590.08
P.T. Station 510+26.08 N 3,478,856.71 E 12,078,542.91
C.C. N 3,480,134.30 E 12,082,314.55
Back = N 20° 14' 10.84" W
Ahead = N 18° 09' 58.20" W
Chord Bear = N 19° 12' 04.52" W

Course from PT C-SH101 to SH104 N 19° 50' 34.01" W Dist 122.99

Point SH104 N 3,479,012.40 E 12,078,501.16 Sta 511+49.07

Course from SH104 to PC C-SH102 N 16° 23' 37.91" W Dist 450.16

Curve Data

Curve C-SH102
P.I. Station 516+45.43 N 3,479,488.58 E 12,078,361.07
Delta = 4° 49' 07.91" (RT)
Degree = 5° 13' 05.50"
Tangent = 46.20
Length = 92.35
Radius = 1,098.00
External = 0.97
Long Chord = 92.32
Mid.Ord. = 0.97
P.C. Station 515+99.23 N 3,479,444.26 E 12,078,374.11
P.T. Station 516+91.58 N 3,479,533.84 E 12,078,351.80
C.C. N 3,479,754.16 E 12,079,421.47
Back = N 16° 23' 37.91" W
Ahead = N 11° 34' 30.00" W
Chord Bear = N 13° 59' 03.95" W

Course from PT C-SH102 to SH106 N 11° 34' 30.00" W Dist 198.96

Point SH106 N 3,479,728.76 E 12,078,311.88 Sta 518+90.54

Course from SH106 to SH107 N 10° 48' 39.97" W Dist 225.02

Point SH107 N 3,479,949.78 E 12,078,269.67 Sta 521+15.56

Course from SH107 to SH108 N 11° 34' 30.00" W Dist 284.44

Point SH108 N 3,480,228.44 E 12,078,212.59 Sta 524+00.00

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
CONSTRUCTION ALIGNMENT DATA SHEET

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP
SHEET NO.	1F		

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UNDERGROUND UTILITIES TEST HOLE INFORMATION

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED
3	01	32.41 LT	STA 103+91.38 BRIDGE ROAD	PRIVATE	12" COPPER WATER	1.94'			
4	02	37.86 LT	STA 106+30.80 BRIDGE ROAD	N/A	N/A	N/A		NO UTILITY FOUND	
4	03	37.38 LT	STA 106+85.48 BRIDGE ROAD	N/A	N/A	N/A		NO UTILITY FOUND	
4	04	27.11 LT	STA 109+01.93 BRIDGE ROAD	SFK	16" CI WATER	4.49'			
4	05	38.85 LT	STA 109+48.30 BRIDGE ROAD	HRS	FORCE MAIN	6.57'			
4	06	40.35 LT	STA 111+75.12 BRIDGE ROAD	HRS	FORCE MAIN	7.97'			
5	07	38.28 LT	STA 113+42.02 BRIDGE ROAD	HRS	FORCE MAIN	7.09'			
5	08	27.50 LT	STA 113+28.93 BRIDGE ROAD	N/A	N/A	N/A		NO UTILITY FOUND	
5	09	9.46 RT	STA 113+42.08 BRIDGE ROAD	SFK	16" CI WATER	4.26'			
5	10	54.12 RT	STA 113+28.23 BRIDGE ROAD	N/A	N/A	N/A		NO UTILITY FOUND	
5	11	72.27 RT	STA 118+16.99 BRIDGE ROAD	N/A	N/A	N/A		NO UTILITY FOUND	
5	12	40.69 LT	STA 118+50.00 BRIDGE ROAD	HRS	FORCE MAIN	8.33'			
6	13	43.97 LT	STA 120+24.38 BRIDGE ROAD	HRS	FORCE MAIN	8.31'			
6	14	9.14 RT	STA 120+34.99 BRIDGE ROAD	SFK	WATER	5.32'		UNABLE TO DETERMINE SIZE AND MATERIAL	
6	15	10.41 RT	STA 120+87.63 BRIDGE ROAD	SFK	16" CI WATER	5.24'			
6	16	82.87 RT	STA 121+22.38 BRIDGE ROAD	SFK	CAST IRON WATER	4.02'			
6	17	81.29 RT	STA 121+37.42 BRIDGE ROAD	SFK	FORCE MAIN	6.81'		UNABLE TO DETERMINE SIZE AND MATERIAL	
6	18	50.27 RT	STA 124+61.66 BRIDGE ROAD	SFK	WATER	8.51'		UNABLE TO DETERMINE SIZE AND MATERIAL	
8	19	7.60 RT	STA 135+51.70 BRIDGE ROAD	SFK	12" CI WATER	2.73'			
14	20	7.19 LT	STA 517+34.93 SHOULDERS HILL ROAD	SFK	WATER	5.67'		UNABLE TO DETERMINE SIZE AND MATERIAL	
14	21	21.77 LT	STA 517+03.37 SHOULDERS HILL ROAD	SFK	WATER	5.41'		UNABLE TO DETERMINE SIZE AND MATERIAL	
14	22	95.46 RT	STA 517+17.93 SHOULDERS HILL ROAD	SFK	24" CI WATER	4.93'			
14	23	33.49 LT	STA 513+87.50 SHOULDERS HILL ROAD	SFK	WATER	5.41'		UNABLE TO DETERMINE SIZE AND MATERIAL	
14	24	17.82 LT	STA 514+04.98 SHOULDERS HILL ROAD	SFK	20" DI WATER	3.99'			
14	25	4.61 RT	STA 514+05.29 SHOULDERS HILL ROAD	SFK	8" CI FORCE MAIN	6.08'			
13	26	25.20 LT	STA 504+97.46 SHOULDERS HILL ROAD	SFK	20" DI WATER	4.76'			
13	27	15.93 LT	STA 504+97.45 SHOULDERS HILL ROAD	SFK	8" CI FORCE MAIN	5.50'			

PLAN SHEETS	TEST HOLES	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED

NOTES:

(1) ALL TEST HOLES ARE REFERENCED FROM THE SURVEY BASELINE UNLESS OTHERWISE NOTED. SEE DEMOLITION PLAN SHEETS FOR TEST HOLE LOCATIONS.

(2) ELEVATIONS SHOWN HEREON ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.

(3) YES OR NO; NO INDICATES NO DIRECT CONFLICT, HOWEVER, CLEARANCE MAY BE LESS THAN ACCEPTABLE TO UTILITY OWNER.

(4) REMARKS TO INCLUDE CLEARANCE DIMENSION (REGARDLESS OF DISTANCE).

(5) YES OR NO;
(A)- INDICATES ADJUSTMENT TO BE MADE BY UTILITY OWNER.
(B)- INDICATES ADJUSTMENT TO BE MADE BY CONTRACTOR

(6) SEE SHEETS 2E(3) - 2E(15) FOR TEST HOLE LOCATIONS

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UNDERGROUND
UTILITIES TEST HOLE INFORMATION

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: M. VELASQUEZ
DATE: 5/10/19
DRAWN BY: MSM
DESIGNED BY: MSM
APPROVED BY: WMP
SHEET NO. 1G

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MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION NOTES

GENERAL NOTES:

1. IT IS NOT THE INTENT OF THE SEQUENCE OF CONSTRUCTION PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH STAGE, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT MUTCD, THE 2011 WORK AREA PROTECTION MANUAL REVISION 1, DATED APRIL 1, 2015, AND THE CURRENT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS.

3. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF CONSTRUCTION AND TEMPORARY TRAFFIC CONTROLS PLANS.

4. 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.

6. WORK ZONES SHOULD BE LIMITED TO ONE SIDE OF THE TRAVELED WAY AT A TIME ALONG SHOULDERS HILL ROAD UNLESS APPROVED BY THE OWNER. WORK ZONE IS DEFINED AS THE AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES OR THAT AREA WHICH INVOLVES A DROP OFF NEXT TO THE PAVEMENT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATING PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK. WHICH INCLUDES BAGGING ANY EXISTING SIGN THAT MAY HAVE A CONFLICTING MESSAGE OR ERADICATING CONFLICTING PAVEMENT MARKINGS. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL SUCH TEMPORARY DEVICES.

8. ALL AREAS EXCAVATED BELOW EXISTING PAVEMENT SURFACE, WHICH THE TRAVELING PUBLIC IS ON AND WITHIN THE CLEAR ZONE AND NOT PROTECTED BY A POSITIVE BARRIER AT THE CONCLUSION OF EACH WORKDAY SHALL BE BACKFILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE EXISTING PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF THE TRAVELING PUBLIC. COST OF PLACING, MAINTAINING AND REMOVING THE WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

9. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE AS REQUIRED TO PREVENT PONDING OF WATER ON THE ROADWAY AND ADJACENT PROPERTIES. ANY TEMPORARY DRAINAGE STRUCTURES INSTALLED ON THE PROJECT ARE THE CONTRACTOR'S RESPONSIBILITY. THE COST OF SUCH STRUCTURES IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

10. ACCESS AND ADEQUATE SIGHT DISTANCE TO AND FROM PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. VEHICULAR ACCESS TO AND FROM PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION OF PROPOSED PRIVATE ENTRANCE IS COMPLETE. PRIVATE ENTRANCE CONSTRUCTION SHALL BE COORDINATED WITH THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK.

11. THE CONTRACTOR SHALL PROVIDE A MINIMUM LANE WIDTH OF 10 FEET AT ALL TIMES. WHENEVER POSSIBLE, CONTRACTOR SHALL PROVIDE LANE WIDTHS WIDER THAN 10 FEET.

12. THE CONTRACTOR SHALL PLAN THE TRANSFER OF MATERIALS AND EQUIPMENT IN A MANNER THAT MINIMIZES THE IMPACT ON TRAFFIC MOVEMENT, AS MUCH AS PRACTICAL. THE CONTRACTOR SHALL CHECK ALL TRAFFIC MAINTENANCE AND CONTROL DEVICES AND WORK ZONES BEFORE, DURING, AND AFTER EACH WORK DAY TO ENSURE PROPER OPERATION. ON WEEKENDS, HOLIDAYS, OR ANY NON-WORKING DAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE TEMPORARY TRAFFIC CONTROL DEVICES DAILY FOR PROPER OPERATION.

13. THE CONTRACTOR SHALL MAINTAIN ONE LANE IN EACH DIRECTION AT ALL TIMES, THE TEMPORARY CLOSURE OF ONE LANE WILL BE ALLOWED DURING TEMPORARY LANE CLOSURE HOURS ONLY OR AS DIRECTED BY THE ENGINEER OR AS DEEMED NECESSARY DURING TIMES OF CONTROL OF TRAFFIC THROUGH TRAFFIC INCIDENT MANAGEMENT.

14. AT NIGHT OR DURING NON-CONSTRUCTION HOURS, ALL EXCAVATED AREAS THAT. AFFECT THE MOVEMENT OF PEDESTRIAN, BICYCLIST, OR MOTOR VEHICLE TRAFFIC ARE TO BE BACKFILLED OR SECURED AND PROTECTED BY USING APPROVED SAFETY DEVICES OR MATERIALS.

15. FOR ALL APPROVED CONSTRUCTION/TRUCK ENTRANCES, THE CONTRACTOR WILL INSTALL "TRUCKS ENTERING HIGHWAY" (48" X 48" ORANGE AND BLACK) WARNING SIGNS ON 6" X 6" WOODEN GROUND MOUNTED POSTS. THESE SIGNS SHALL BE INSTALLED APPROXIMATELY 500 FEET IN ADVANCE OF ALL APPROVED CONSTRUCTION ACCESS/ENTRANCE POINTS.

16. ANY TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS AND SIGNS DAMAGED OR DESTROYED BY THE CONTRACTOR MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE UNLESS THEIR REMOVAL OR DESTRUCTION IS CALLED FOR BY THE PLANS.

17. COORDINATE CONSTRUCTION SEQUENCING AND MAINTENANCE OF TRAFFIC WITH ADJACENT CONCURRENT CONSTRUCTION PROJECTS.

18. ALL TEMPORARY PAVEMENT MARKINGS AND MARKERS SHALL FOLLOW THE GUIDE LINES AS OUTLINED IN FIGURE TTC-60.0 OF THE VIRGINIA WORK AREA PROTECTION MANUAL.

PHASE 1 NOTES:

1. COMMENCE MOBILIZATION AND SETTING UP STAGING AREA AS DIRECTED BY THE OWNER.

2. CONTRACTOR TO ESTABLISH EROSION AND SEDIMENT CONTROLS FOR CURRENT PHASE, AS APPROPRIATE PER THE EROSION AND SEDIMENT CONTROL PLAN SHEETS.

3. ESTABLISH ALL TEMPORARY TRAFFIC CONTROL DEVICES AS INDICATED ON PLAN SHEETS 1H(3) TO 1H(15), AND IN ACCORDANCE WITH THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL REVISION 1. REFERENCE FIGURES TTC 5.1 AND TTC 6.1.

4. PRIOR TO THE START OF ANY PHASE 1 WORK CURB AND GUTTER SHALL BE DEMOLISHED AS NECESSARY TO CONSTRUCT TEMPORARY PAVEMENT, TEMPORARY PAVEMENT SHALL BE INSTALLED, AND PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE COMPLETED AS SHOWN ON SHEETS 1H(3) TO 1H(15) ALONG WITH ERADICATION OF ANY CONFLICTING PAVEMENT MESSAGES OR MARKINGS.

5. CONTRACTOR SHALL CLOSE KNOTTS NECK ROAD UTILIZING THE DETOUR PLAN PROVIDED ON SHEET 1H(2) AS NECESSARY TO COMPLETE GRADING OPERATIONS ALONG KNOTTS NECK ROAD. DETOUR SHALL BE IN PLACE NO MORE THAN ONE WEEK. CONTRACTOR SHALL UTILITZE TTC 5.1 TO CONSTRUCT CURB AND GUTTER IF NECESSARY.

6. UTILIZE FLAGGING OPERATION AND NIGHT WORK TO CONSTRUCT PROPOSED STORM STRUCTURES, PIPING, AND TEMPORARY SEDIMENT BASIN TO ALLOW FOR ADEQUATE STORM DRAINAGE.

7. CONSTRUCT ALL IMPROVEMENTS ALONG THE NORTH SIDE OF BRIDGE ROAD AND EAST SIDE OF SHOULDERS HILL ROAD, AS PER THE ESTABLISHED WORK ZONES.

PHASE 2 NOTES:

1. CONTRACTOR TO ESTABLISH EROSION AND SEDIMENT CONTROLS FOR CURRENT PHASE, AS APPROPRIATE PER THE EROSION AND SEDIMENT CONTROL PLAN SHEETS.

3. ESTABLISH ALL TEMPORARY TRAFFIC CONTROL DEVICES AS INDICATED ON PLAN SHEETS 1H(16) TO 1H(28), AND IN ACCORDANCE WITH THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL REVISION 1. REFERENCE FIGURES TTC 5.1 AND TTC 6.1.

4. PRIOR TO THE START OF ANY PHASE 2 WORK CURB AND GUTTER SHALL BE DEMOLISHED AS NECESSARY TO CONSTRUCT TEMPORARY PAVEMENT, TEMPORARY PAVEMENT SHALL BE INSTALLED, AND PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE COMPLETED AS SHOWN ON SHEETS 1H(16) TO 1h(28) ALONG WITH ERADICATION OF ANY CONFLICTING PAVEMENT MESSAGES OR MARKINGS.

6. CONSTRUCT ALL IMPROVEMENTS ALONG THE SOUTH SIDE OF BRIDGE ROAD AND WEST SIDE OF SHOULDERS HILL ROAD, AS PER THE ESTABLISHED WORK ZONES.

7. CONSTRUCT ALL PROPOSED WATERLINE ALONG SHOULDERS HILL AS DESIGNATED WORK ZONES PERMIT. UTILIZE FLAGGING OPERATION AND NIGHT WORK TO CONSTRUCT THE REAINDER OF THE PROPOSED WATERLINE AT THE INTERSECTION OF BRIDGE ROAD AND SHOULDERS HILL ROAD.

PHASE 3 NOTES:

1. CONTRACTOR TO ESTABLISH EROSION AND SEDIMENT CONTROLS FOR CURRENT PHASE, AS APPROPRIATE PER THE EROSION AND SEDIMENT CONTROL PLAN SHEETS.

2. ESTABLISH ALL TEMPORARY TRAFFIC CONTROL DEVICES AS INDICATED ON PLAN SHEETS 1H(29) TO 1H(41), AND IN ACCORDANCE WITH THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL REVISION 1. REFERENCE FIGURES TTC 5.1 AND TTC 6.1.

3. PRIOR TO THE START OF ANY PHASE 3 WORK TEMPORARY PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE COMPLETED AS SHOWN ON SHEETS 1H(29) TO 1H(32A), 1H(32)A TO 140(A) AND 1H(40)A TO 1(41) ALONG WITH ERADICATION OF ANY CONFLICTING PAVEMENT MESSAGES OR MARKINGS. CONTRACTOR SHALL CONSTRUCT THE ISLAND MEDIAN AT THE INTERSECTION OF BRIDGE ROAD AND SHOULDERS HILL ROAD, AS PER THE ESTABLISHED WORK ZONES SHOWN ON SHEETS 1H(32)A AND 1H(40)A. THIS WILL BE "PHASE 3A".

4. UPON COMPLETION OF MEDIAN ISLAND, TEMPORARY PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE COMPLETED AS SHOWN ON SHEETS 1H(32) AND 1H(40) AND DEMOLITION OF TEMPORARY PAVEMNT SHALL BE DEMOLISHED.

5. CONSTRUCT ALL IMPROVEMENTS ALONG THE RIGHT TURN LANE OF SHOULDERS HILL ROAD AND FREE FLOW LANE OF BRIDGE ROAD AS SHOWN ON SHEETS 1H(32) AND 1H(40). THIS WILL BE "PHASE 3B".

6. CONSTRUCT ALL IMPROVEMENTS ALONG THE CENTER OF BRIDGE ROAD AND CENTER OF SHOULDERS HILL ROAD, AS PER THE ESTABLISHED WORK ZONES.

7. COMPLETE FINAL SURFACE COURSE PAVING OPERATIONS FOR ENTIRE PROJECT LENGTH. TTC-23.1 CAN ONLY BE USED DURING THE SPECIFIED WORK HOURS.

8. WITH ALL CONSTRUCTION COMPLETE, INCLUDING PAVEMENT MARKINGS, MARKERS AND SIGNING, REMOVE CONSTRUCTION SIGNS, AND CHANNELIZING DEVICES AND OPEN TRAVEL LANES TO TRAFFIC.

9. COMMENCE DEMOBILIZATION INCLUDING REMOVAL OF FIELD OFFICE AND OTHER RELATED CONSTRUCTION FACILITIES.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION NOTES	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 1H(1)

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LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone (Intersection Closure)

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DETOUR PLAN

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 1H(2)

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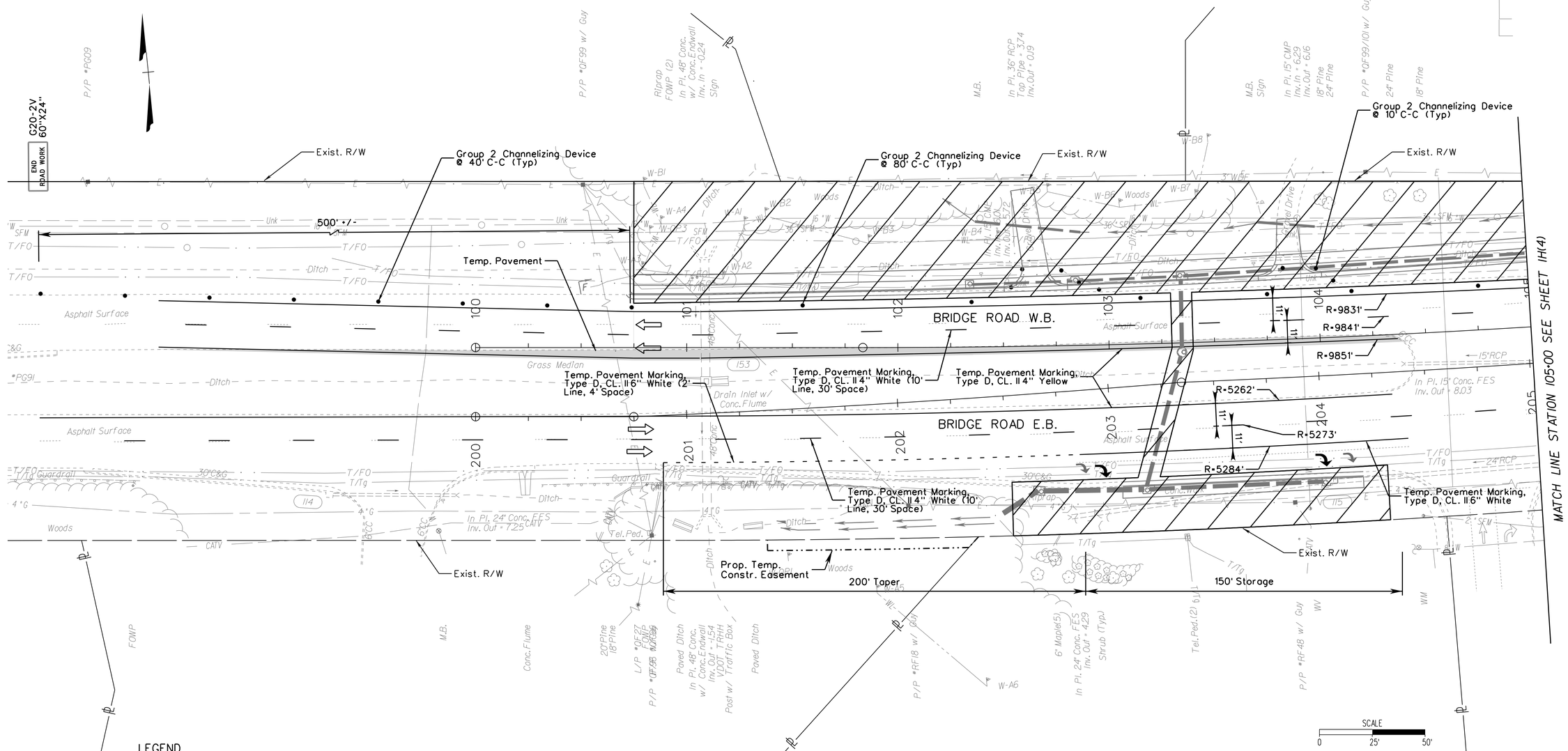

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- Temporary Pavement Symbol Marking Elongated Arrow Single
- Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 1 STA 100+00 - STA 105+00		
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP SHEET NO. 1H(3)

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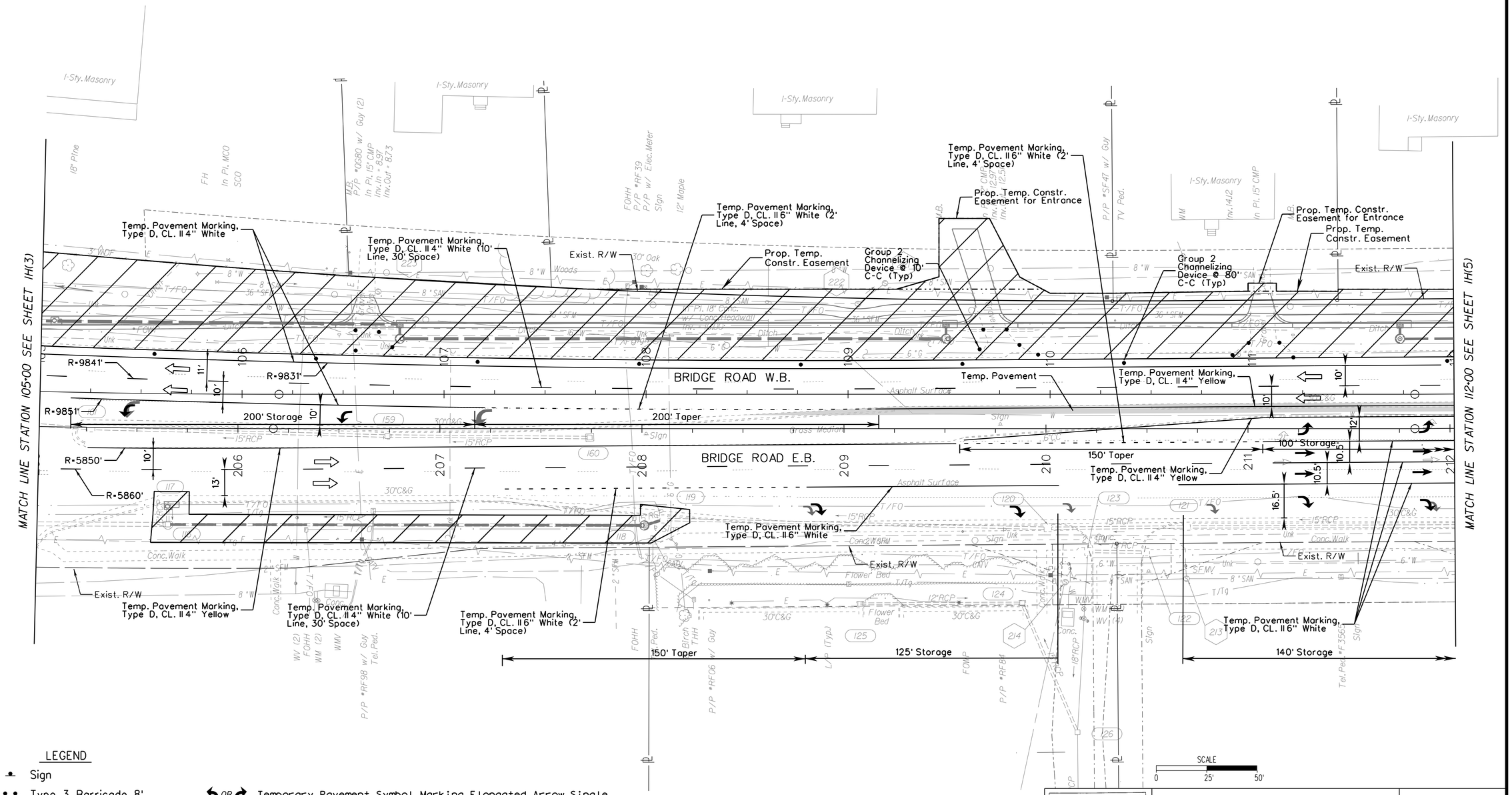

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 105+00 - STA 112+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 1H(4)
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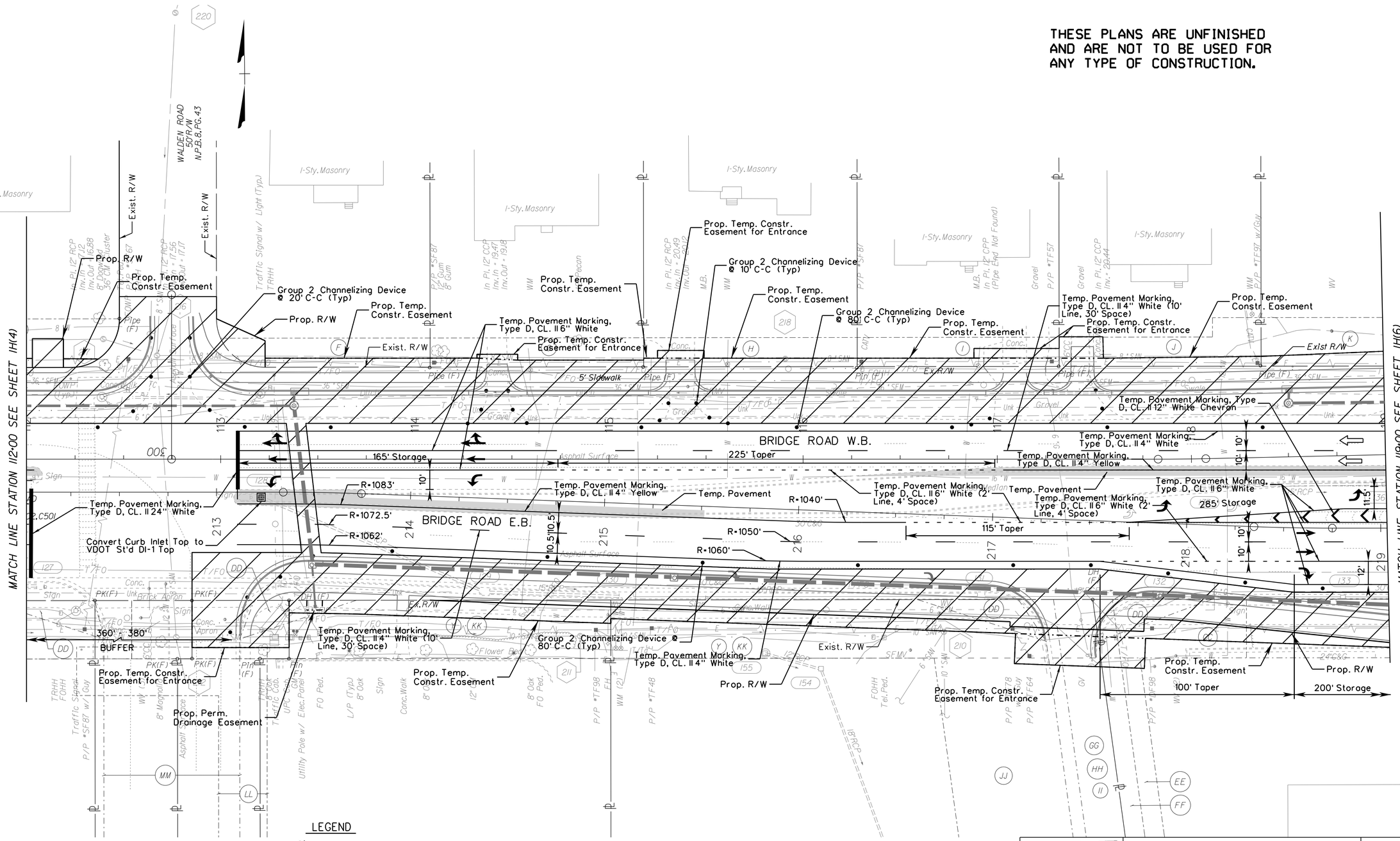

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA 1974

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 112+00 - STA 119+00

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CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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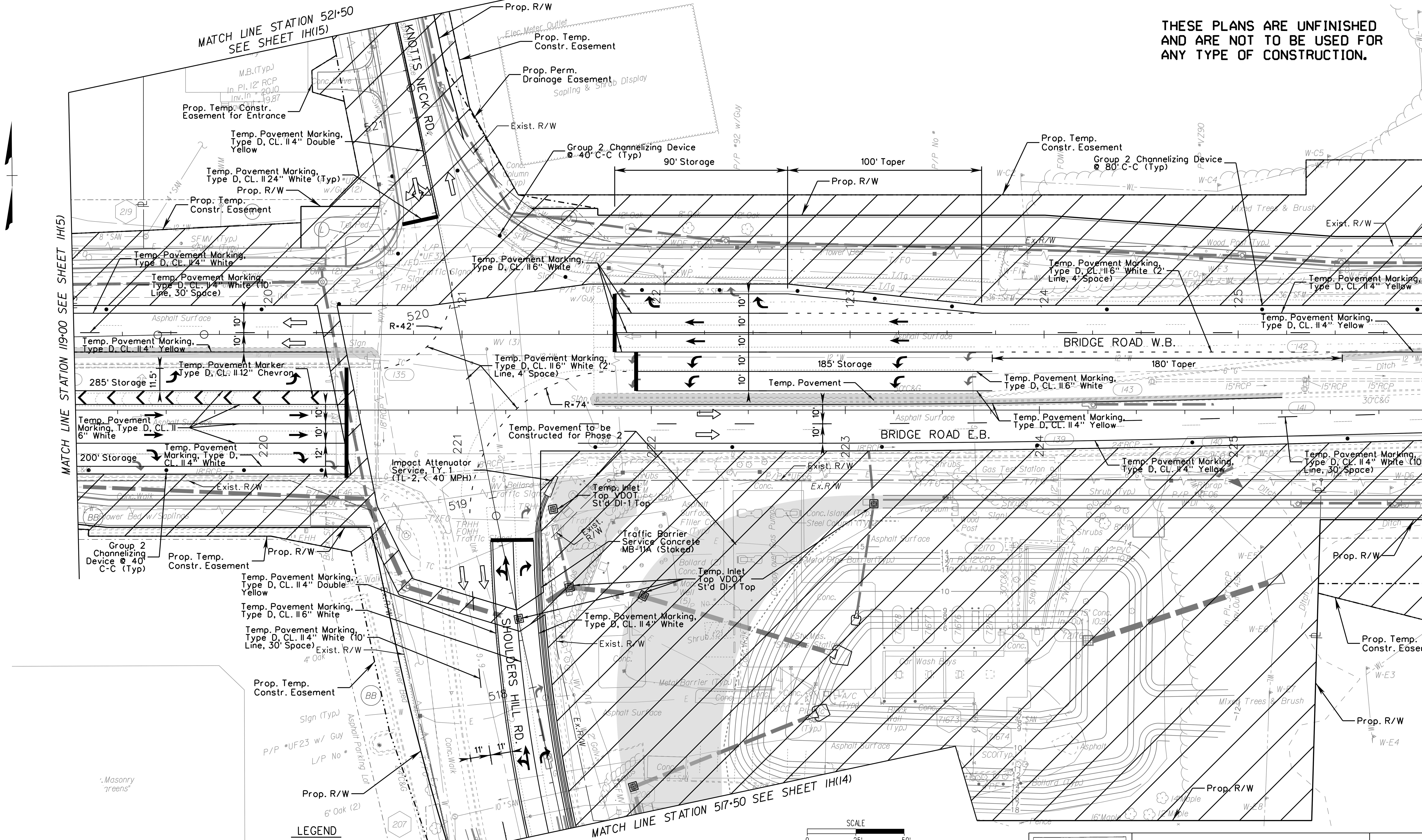

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- Temporary Pavement Symbol Marking Elongated Arrow Single
- Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 119+00 - STA 126+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: M. VELASQUEZ	DRAWN BY: MSM		
	DESIGNED BY: MSM		SHEET NO. 1H(6)
DATE: 5/10/19	APPROVED BY: WMP		

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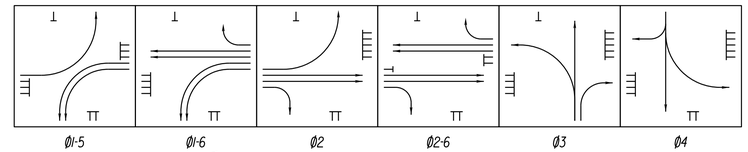
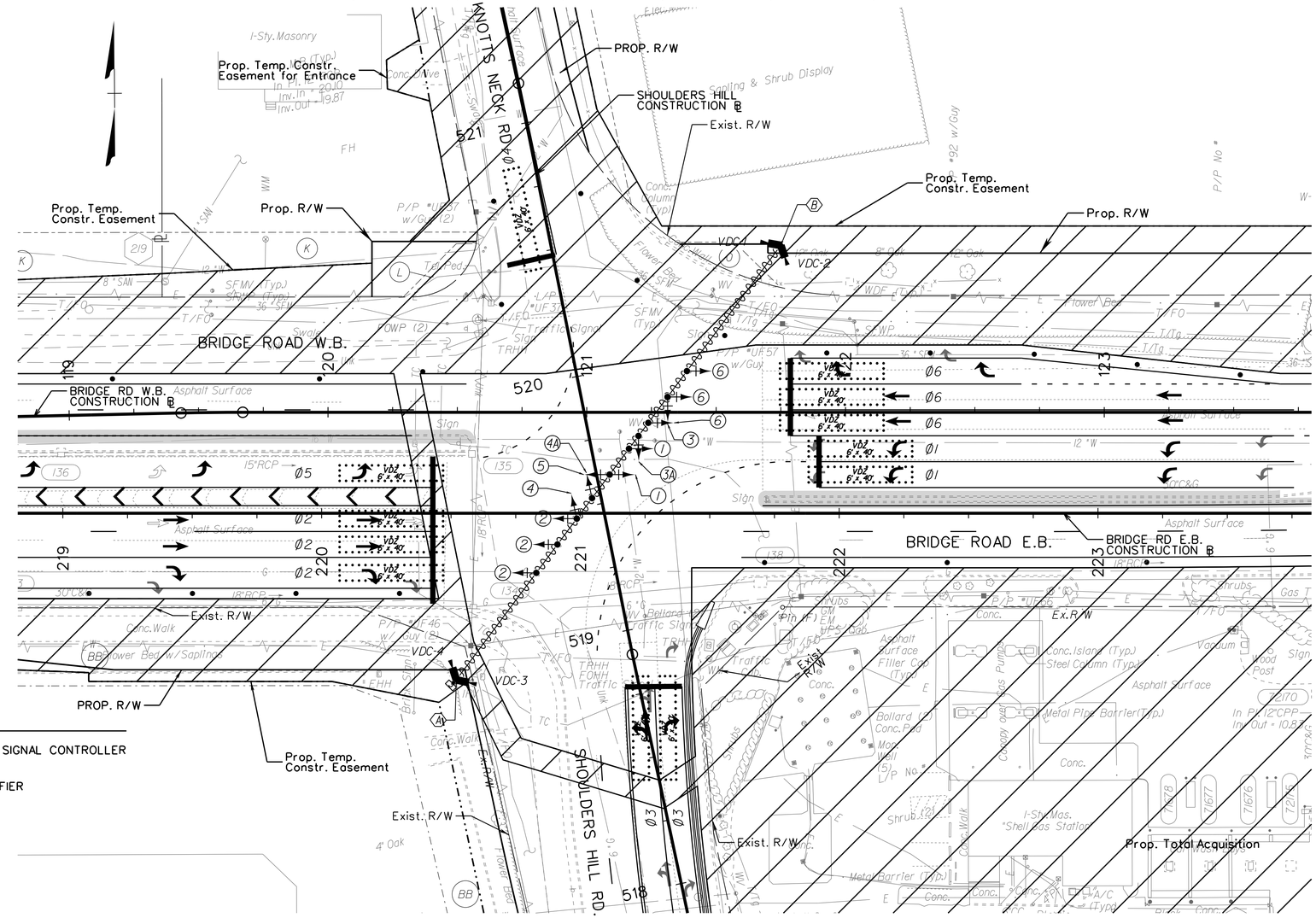
Phasing Diagram



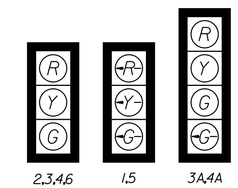


Temporary Signal Pole Legend

Ⓐ SIGNAL STRAIN POLE.TYPE WD-2
64.50' RT of Bridge Rd EB Constr.℄ Sta.220+52.00
Install Temporary Traffic Controller on pole

Ⓑ SIGNAL STRAIN POLE.TYPE WD-2
64.50' RT of Bridge Rd WB Constr.℄ Sta.121+75.00

Temporary Signal Heads



NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO:
   A) ENSURE THAT TEMPORARY SIGNAL TIMINGS ARE COORDINATED WITH TRAFFIC OPERATIONS AT LEAST 72 HOURS PRIOR TO INTENDED ACTIVATION.
   B) COORDINATE WITH DOMINION ENERGY TO BRING POWER TO THE TEMPORARY SIGNAL POLE.
2. THE MINIMUM MOUNTING HEIGHT TO THE BOTTOM OF THE SIGNAL HOUSING SHALL BE 16'.
3. SIGNAL HEADS TO BE PLACED WITHIN THE TRAVEL LANE OF THE APPROACH.
4. GUY WIRES SHALL BE INSTALLED AS NECESSARY.
5. TEMPORARY TRAFFIC SIGNAL POLE LOCATIONS SHALL BE STAKED AND THEIR LOCATION VERIFIED BY TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

LEGEND

- POLE MOUNTED TEMPORARY TRAFFIC SIGNAL CONTROLLER
- SIGNAL HEAD WITH IDENTIFIER
- TEMP. WOOD SIGNAL POLE AND IDENTIFIER
- VIDEO DETECTION ZONE
- VDC-2 VIDEO DETECTION CAMERA
- SPAN WIRE WITH SIGNAL CABLES

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION BRIDGE RD & SHOULDERS HILL RD INTERSECTION IMPROVEMENTS MAINTENANCE OF TRAFFIC PHASE 1 TEMP. SIGNAL AT BRIDGE RD & SHOULDERS HILL RD/KNOTTS NECK RD		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY DEG DESIGNED BY DEG APPROVED BY WMP	SHEET NO. 1H(6A)

3:55:38 PM
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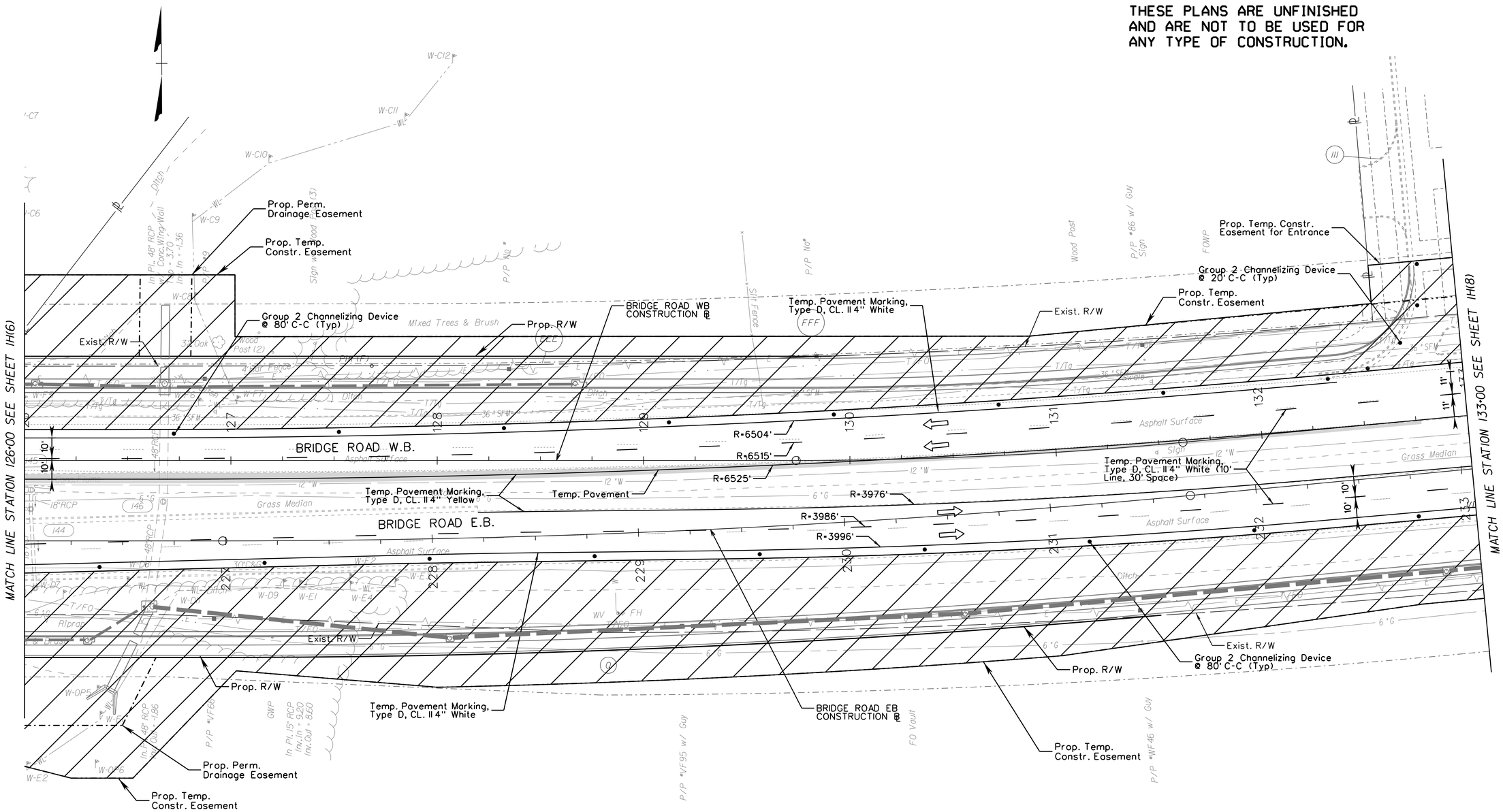
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1666 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 1 STA 126+00 - STA 133+00	
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 1H(7)

3:55:40 PM
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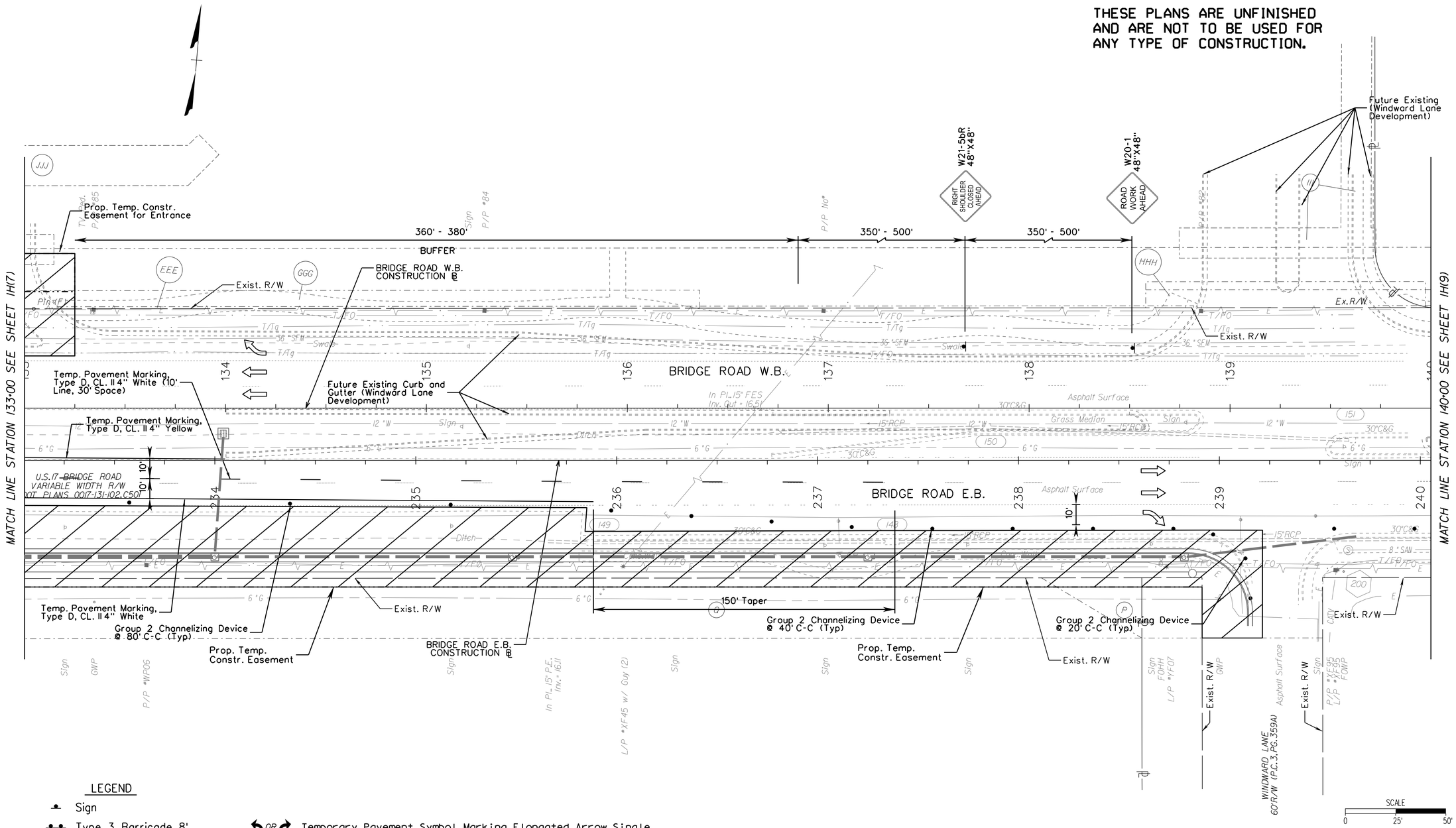
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 133+00 - STA 140+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 1H(8)

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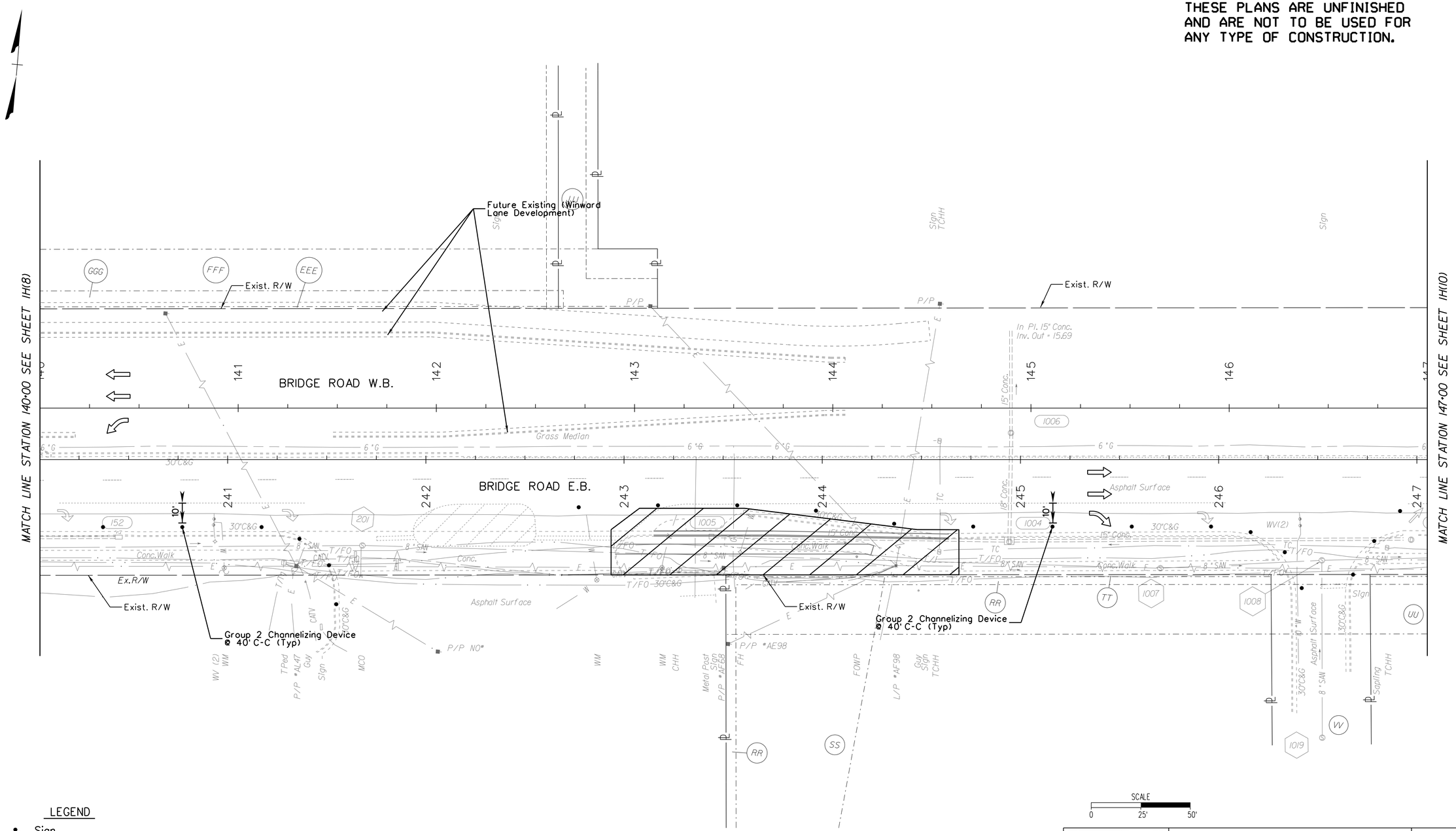
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 1 STA 140+00 - STA 147+00		
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 1H(9)
	DATE: 5/10/19		

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

MATCH LINE STATION 147+00 SEE SHEET 1H(9)

MATCH LINE STATION 154+00 SEE SHEET 1H(11)

Exist. R/W

Pin (F)

Ex.R/W

Sign (Typ.)

GMP

SFMV

BRIDGE ROAD W.B.

BRIDGE ROAD E.B.

Connecting Structure Not Found

Asphalt Surface

Grass Median

Group 2 Channelizing Device @ 80' C-C (Typ)

Group 2 Channelizing Device @ 20' C-C (Typ)

Conc. Walk

Gas Regulator

Metal Post

Sign

FOHH L/P *AF88

FONP CHH

P/P *BF48 In Pl.18" Conc. Inv.= 18.78

15"Oak EHH TCHH

15"Oak Sign (Typ.)

TCHH(2) EHH (2)Oak Bollard (4) EM Traffic Signal TPed FOHH

FONP

GUY P/P *BF99 FONP GUY

10" SAN P/P *CF98

SCALE 0 25' 50'

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 147+00 - STA 154+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	MSM	1H(10)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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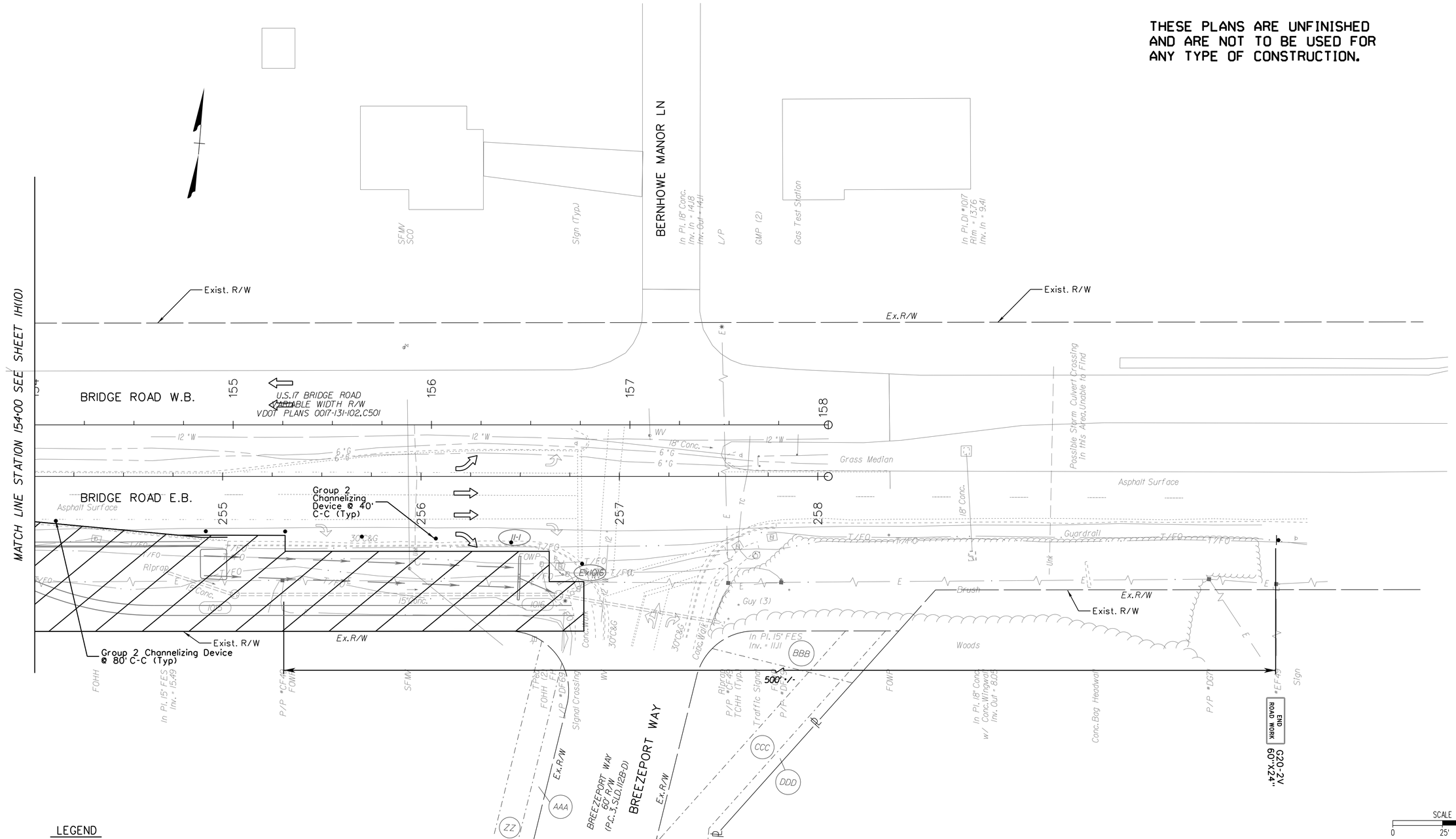

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
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Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 154+00 - STA 158+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 1H(11)
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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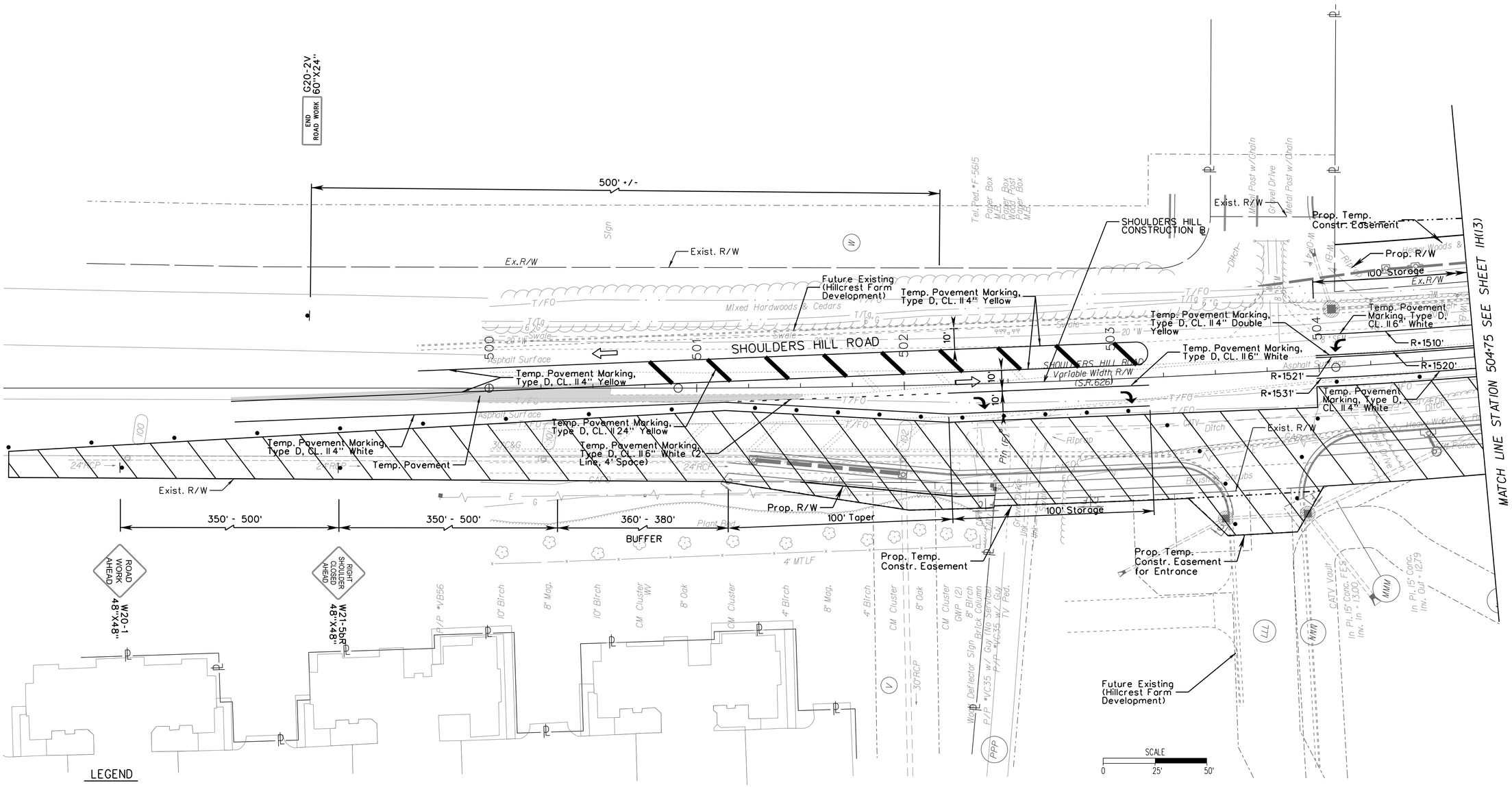

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
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- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — 19 74 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 490+50 - STA 504+75

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 1H(12)

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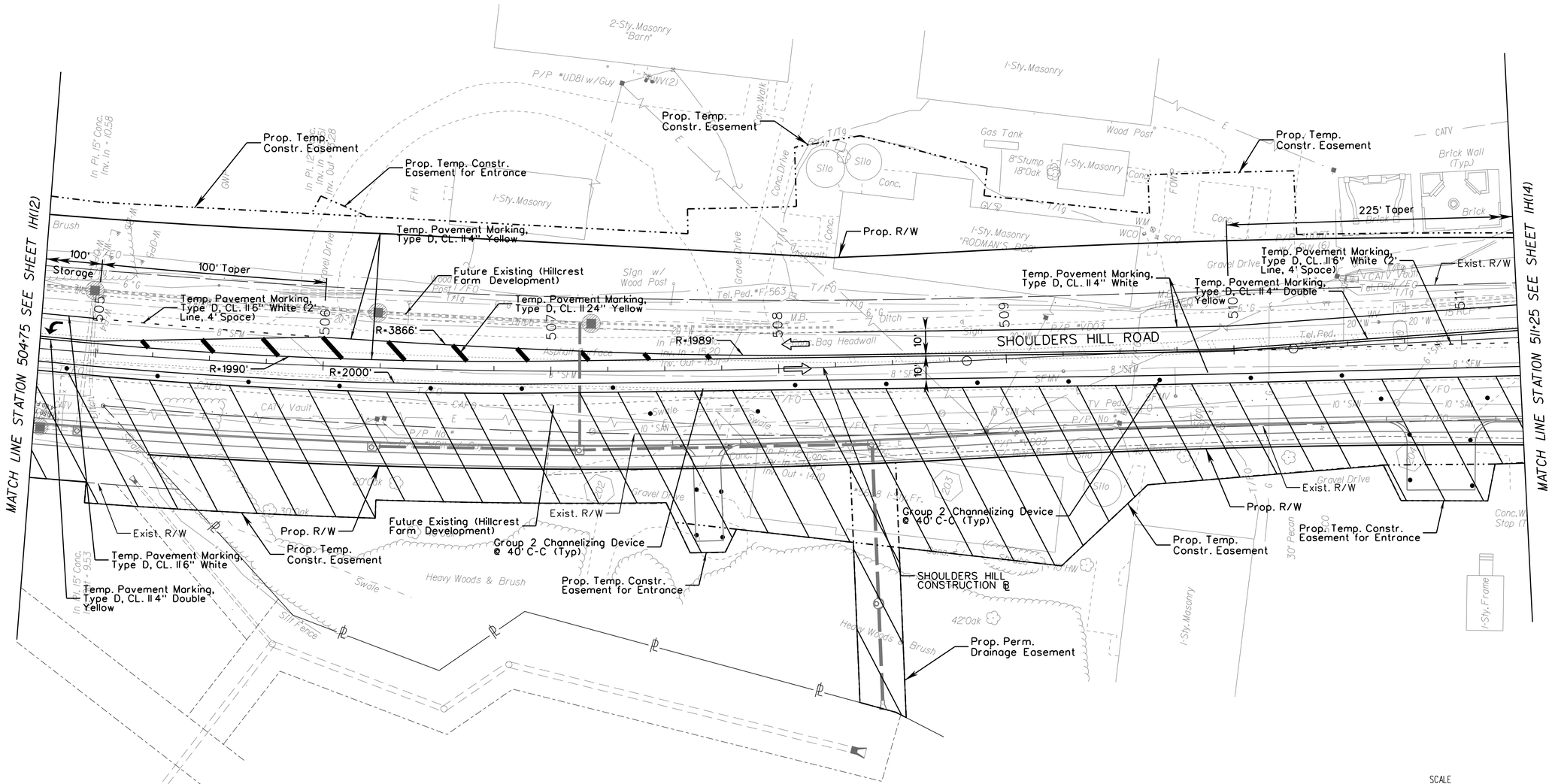
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



LEGEND

- Sign
- Type 3 Barricade 8'
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- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

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Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 — SUFFOLK 1742 — 1974 — CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 504+75 - STA 511+25

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP

SHEET NO. 1H(13)

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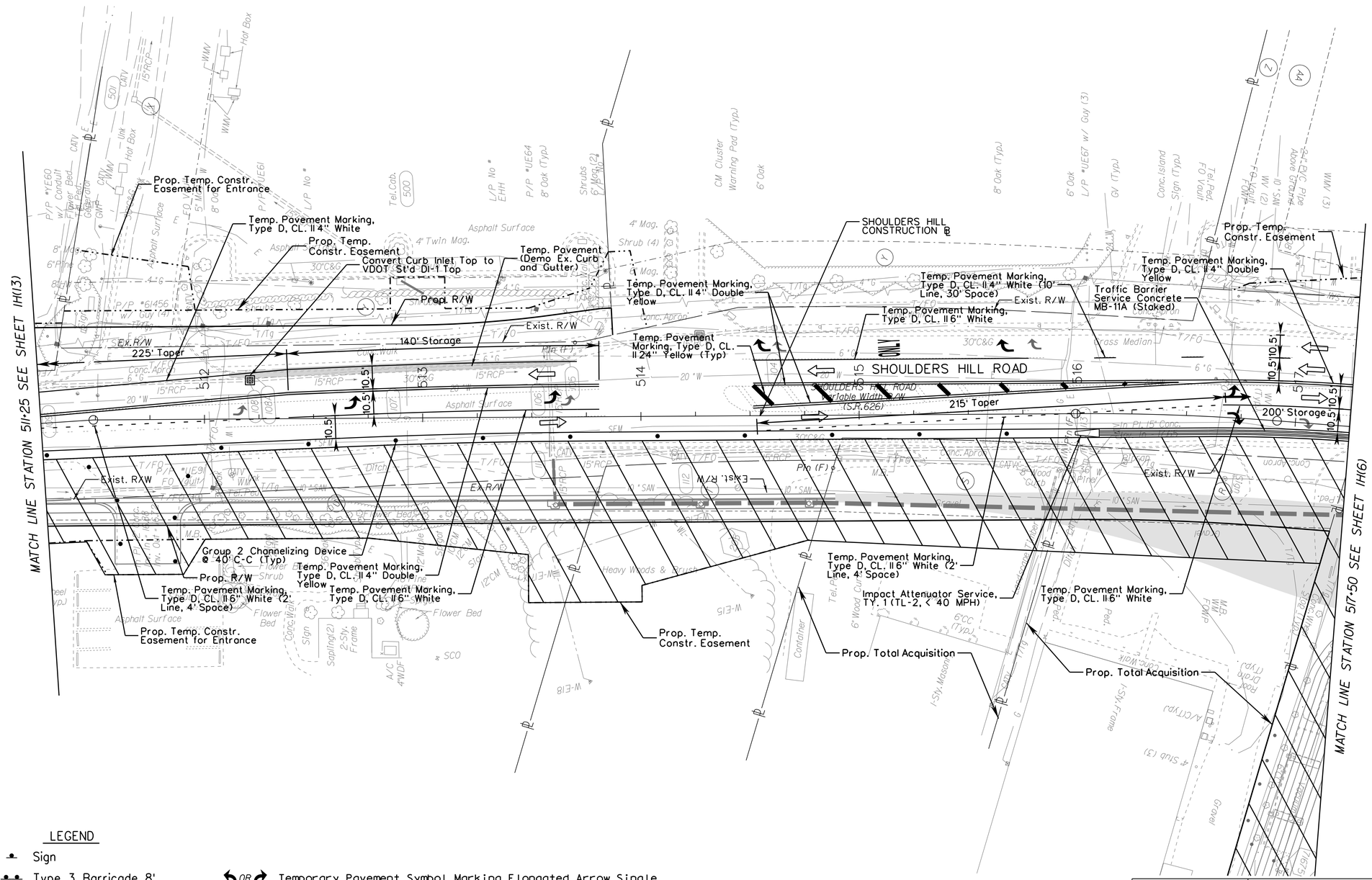

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
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NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 511+25 - STA 517+50

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP
SHEET NO.	1H(14)		

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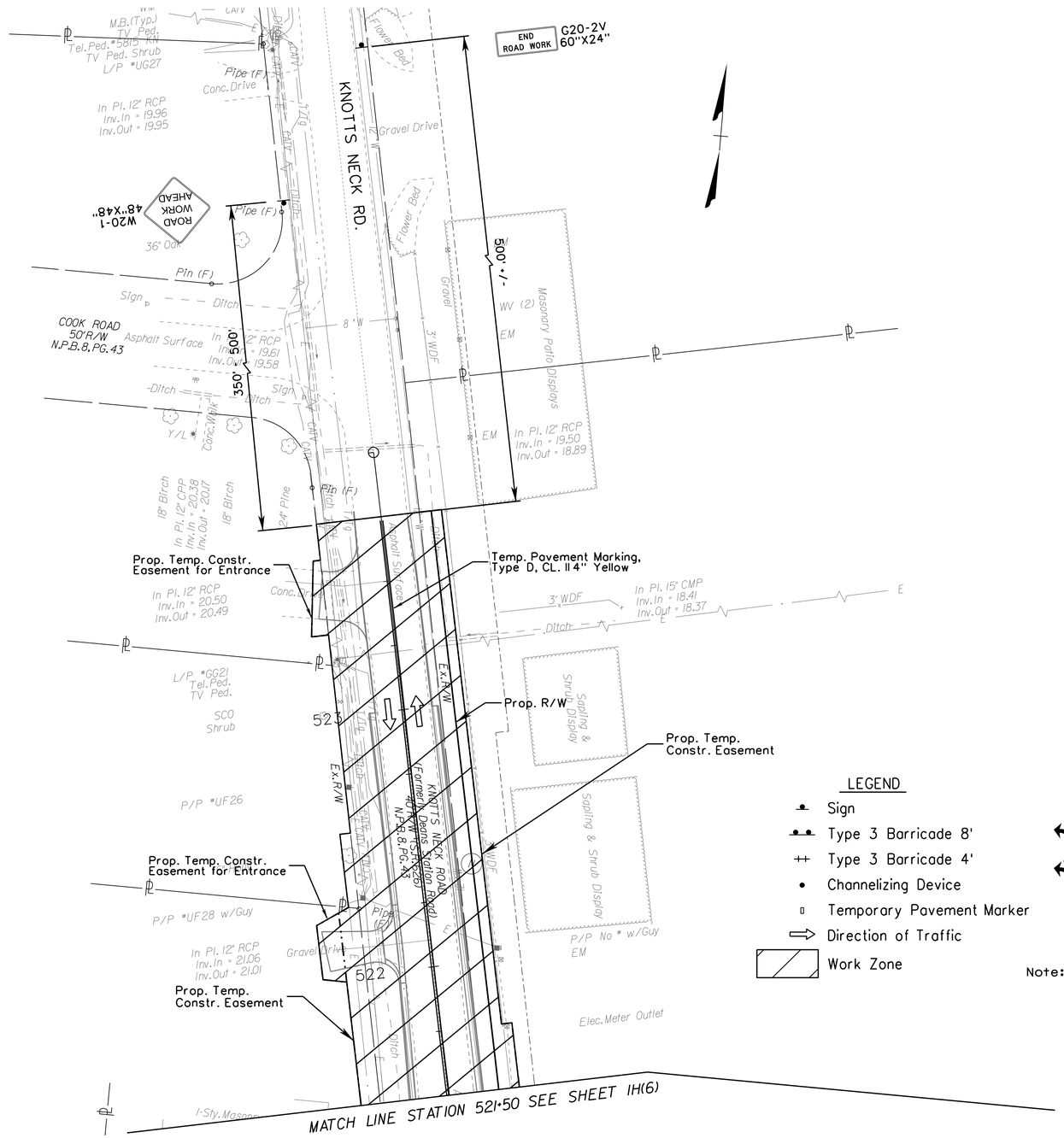

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
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- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 1
STA 521+50 - STA 524+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP
SHEET NO.	1H(15)		

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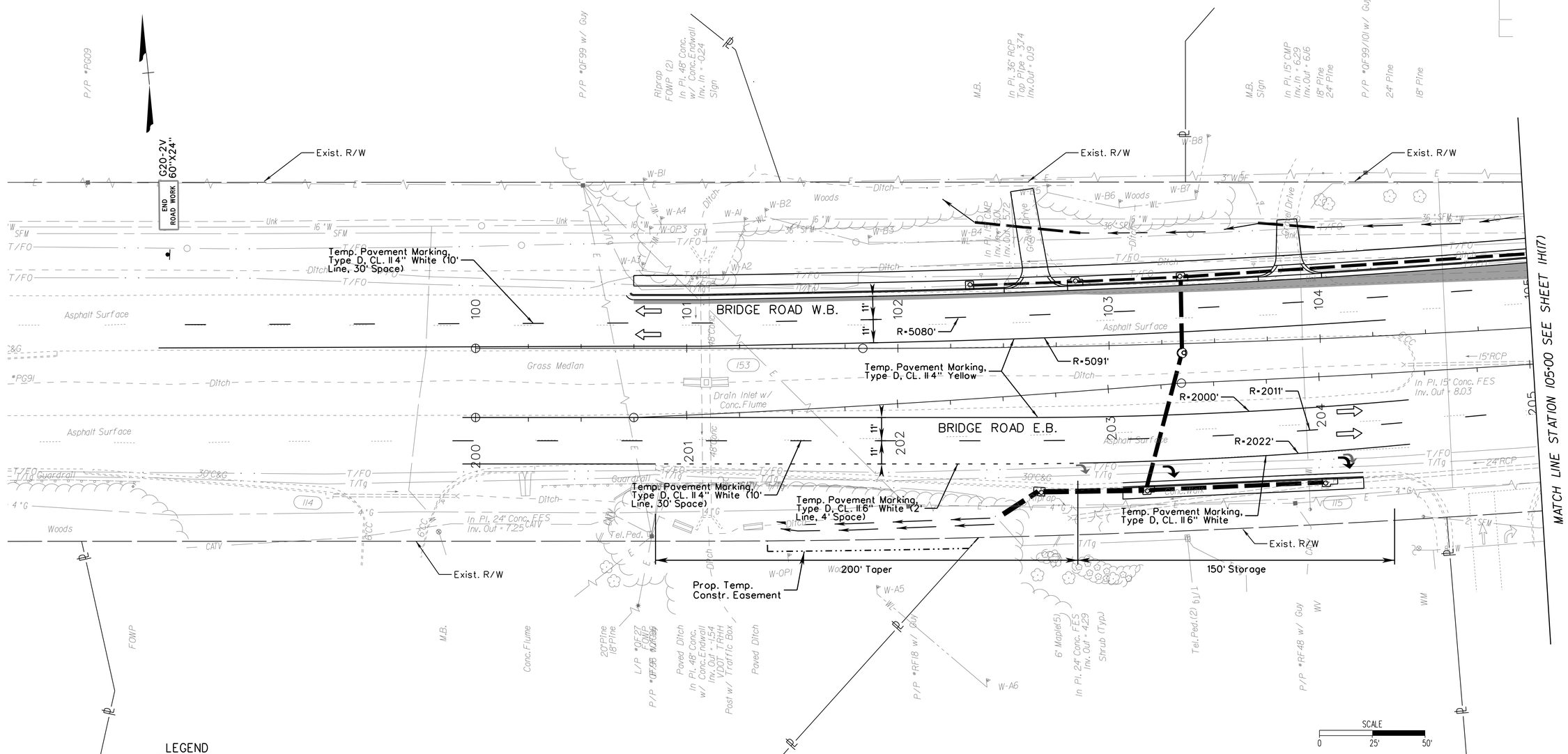

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
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- Temporary Pavement Symbol Marking Thru Arrow
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Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY OF SUFFOLK VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 2 STA 100+00 - STA 105+00		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 1H(16)
	DATE 5/10/19		

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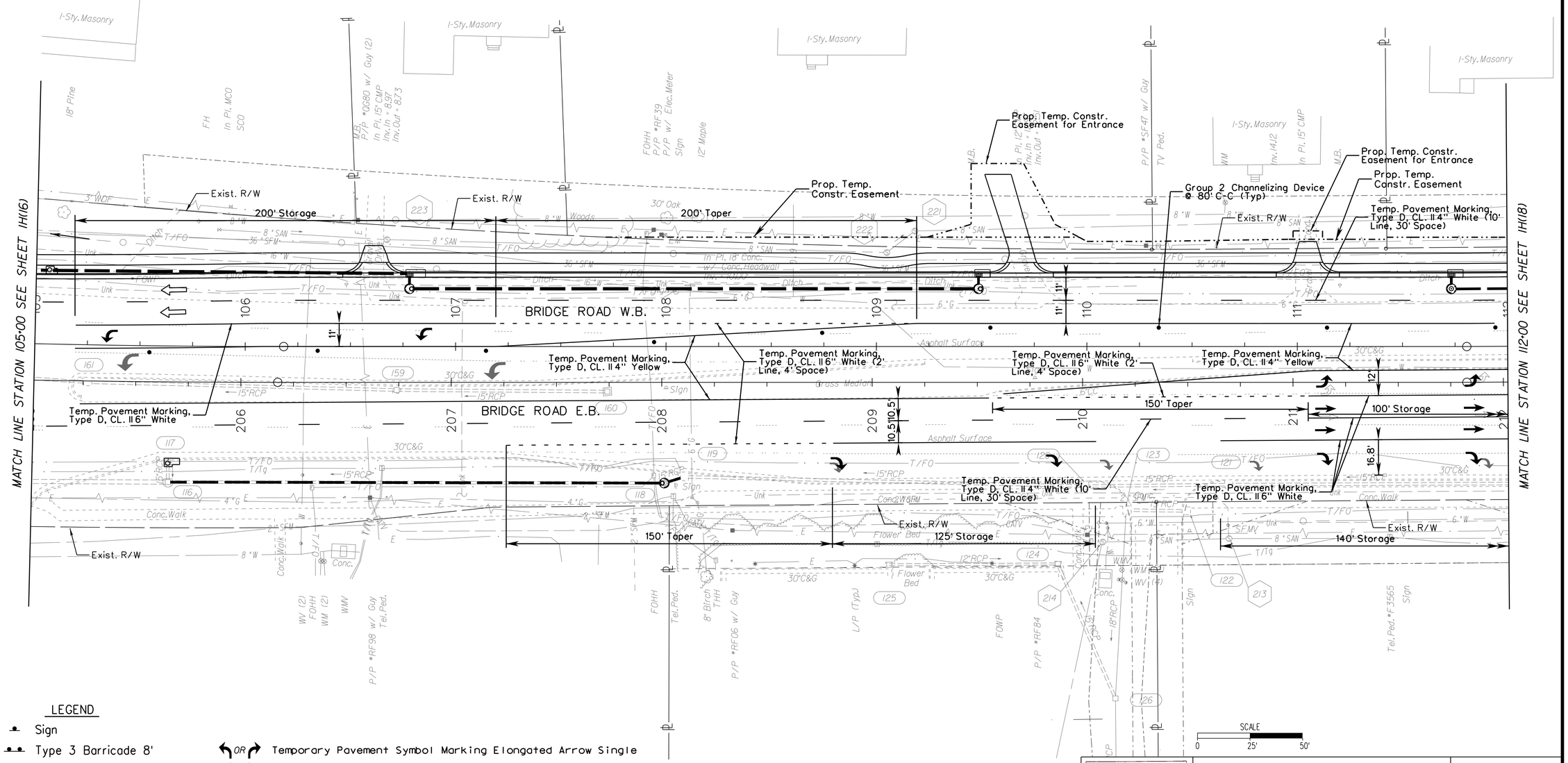

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR Temporary Pavement Symbol Marking Elongated Arrow Single

OR Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 105+00 - STA 112+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 1H(17)

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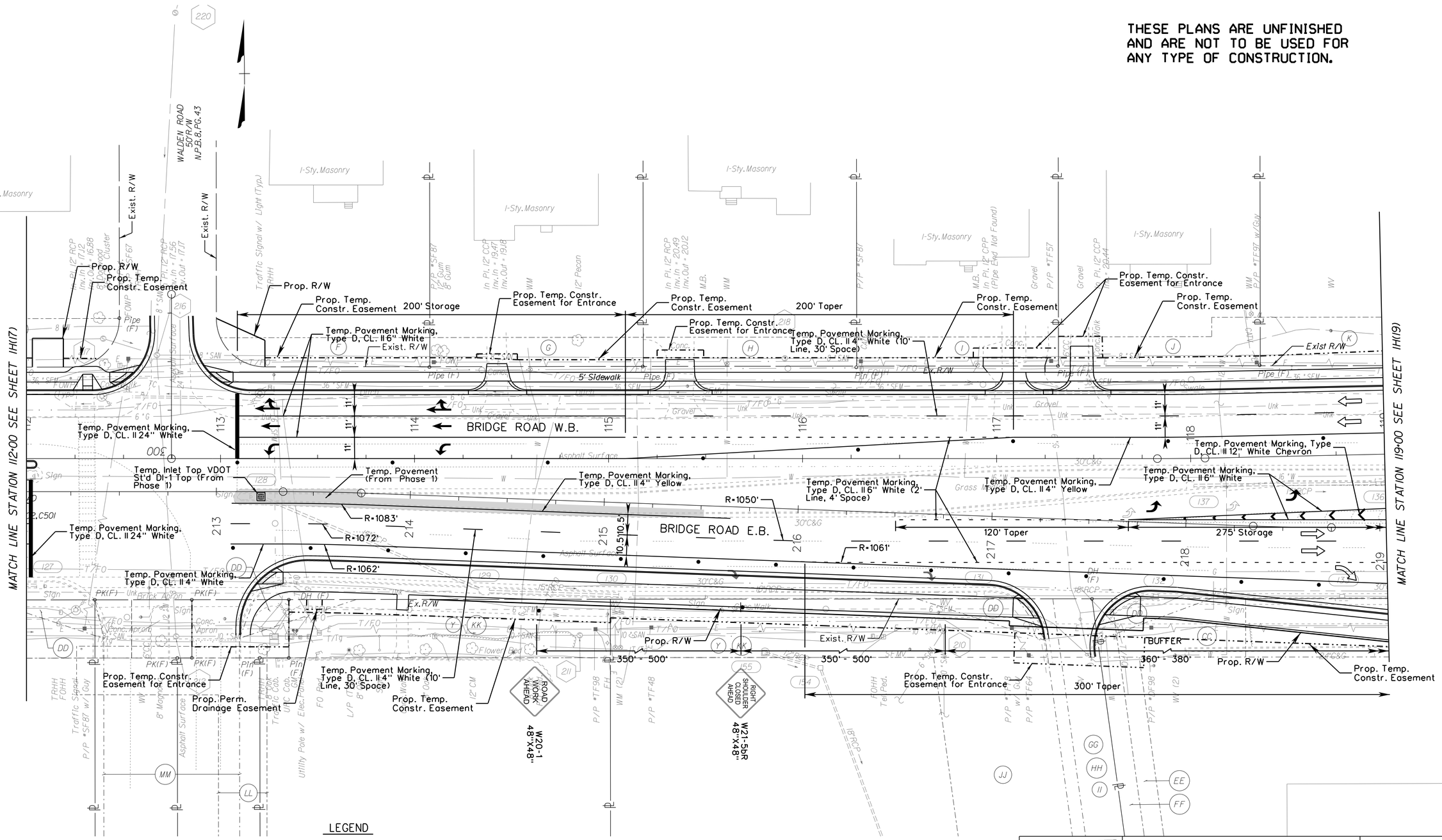
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 112+00 - STA 119+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	1H(18)		

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

MATCH LINE STATION 521+50 SEE SHEET 1H(28)

MATCH LINE STATION 119+00 SEE SHEET 1H(18)

MATCH LINE STATION 126+00 SEE SHEET 1H(20)

MATCH LINE STATION 517+50 SEE SHEET 1H(27)

KNOTTS NECK RD.

BRIDGE ROAD W.B.

BRIDGE ROAD E.B.

SHOULDERS HILL RD.

Prop. Temp. Constr. Easement

R=521'

R=510'

Prop. Perm. Drainage Easement

Sapling & Shrub Display

500' +/-

Prop. Temp. Constr. Easement for Entrance

Prop. Temp. Constr. Easement

Prop. R/W

Exist. R/W

Temp. Pavement Marking, Type D, CL. II 6" White

Prop. Temp. Constr. Easement

Temp. Pavement Marking, Type D, CL. II 6" White (2' Line, 4' Space)

Temp. Pavement Marking, Type D, CL. II 4" White (10' Line, 30' Space)

205' Storage

150' Taper

Temp. Pavement Marking, Type D, CL. II 24" White (Typ)

Temp. Pavement Marking, Type D, CL. II 6" White (2' Line, 4' Space)

Group 2 Channelizing Device @ 40' C-C (Typ)

135' Storage

Temp. Pavement Marking, Type D, CL. II 12" White Chevron

310' Storage

285' Taper

R=81'

Temp. Pavement (From Phase 1)

Temp. Pavement Marking, Type D, CL. II 4" Yellow

Temp. Pavement Marking, Type D, CL. II 4" White (10' Line, 30' Space)

Temp. Pavement Marking, Type D, CL. II 6" White

Exist. R/W

140' Storage

Temp. Pavement Marking, Type D, CL. II 4" White

R=310'

Temp. Pavement

Impact Attenuator Service, TY. 1 (TL-2, < 40 MPH)

R=125'

Impact Attenuator Service, TY. 1 (TL-2, < 40 MPH)

Group 2 Channelizing Device @ 80' C-C (Typ)

BUFFER

360' - 380'

Prop. Temp. Constr. Easement

Prop. R/W

Group 2 Channelizing Device @ 40' C-C (Typ)

Temp. Pavement Marking, Type D, CL. II 4" White

R=145'

Temp. Pavement

Traffic Barrier Service Concrete MB-11A (Staked)

Traffic Barrier Service Concrete MB-11A (Staked)

R=300'

R=310'

R=322'

R=312'

Prop. Temp. Constr. Easement

Prop. R/W

END ROAD WORK

G20-2V 60"X24"

SCALE 0 25' 50'

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR Temporary Pavement Symbol Marking Elongated Arrow Single

OR Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 119+00 - STA 126+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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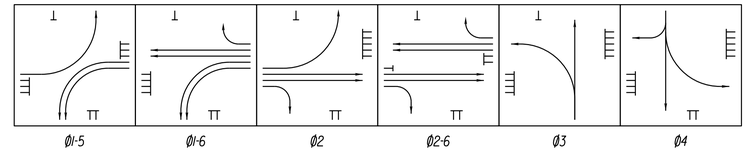
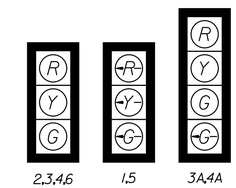
Phasing Diagram



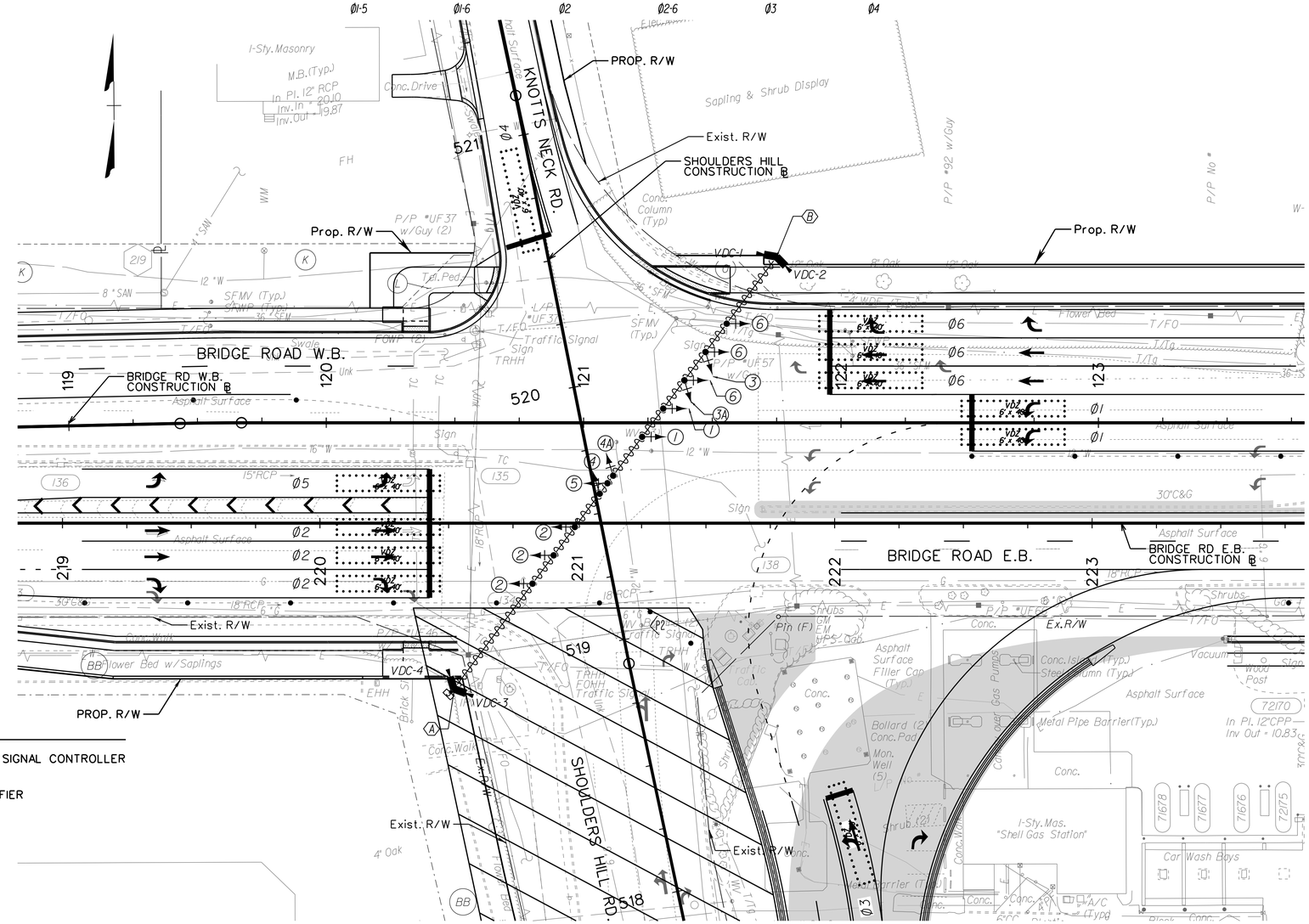
Temporary Signal Heads



Temporary Signal Pole Legend

Ⓐ SIGNAL STRAIN POLE.TYPE WD-2
64.50' RT of Bridge Rd EB Constr.℄ Sta.220+52.00
Install Temporary Traffic Controller on pole

Ⓑ SIGNAL STRAIN POLE.TYPE WD-2
64.50' RT of Bridge Rd WB Constr.℄ Sta.121+75.00



LEGEND

- POLE MOUNTED TEMPORARY TRAFFIC SIGNAL CONTROLLER
- SIGNAL HEAD WITH IDENTIFIER
- TEMP. WOOD SIGNAL POLE AND IDENTIFIER
- VIDEO DETECTION ZONE
- VDC-2 VIDEO DETECTION CAMERA
- SPAN WIRE WITH SIGNAL CABLES

NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO:
   A) ENSURE THAT TEMPORARY SIGNAL TIMINGS ARE COORDINATED WITH TRAFFIC OPERATIONS AT LEAST 72 HOURS PRIOR TO INTENDED ACTIVATION.
   B) COORDINATE WITH DOMINION ENERGY TO BRING POWER TO THE TEMPORARY SIGNAL POLE.
2. THE MINIMUM MOUNTING HEIGHT TO THE BOTTOM OF THE SIGNAL HOUSING SHALL BE 16'.
3. SIGNAL HEADS TO BE PLACED WITHIN THE TRAVEL LANE OF THE APPROACH.
4. GUY WIRES SHALL BE INSTALLED AS NECESSARY.
5. TEMPORARY TRAFFIC SIGNAL POLE LOCATIONS SHALL BE STAKED AND THEIR LOCATION VERIFIED BY TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION BRIDGE RD & SHOULDERS HILL RD INTERSECTION IMPROVEMENTS MAINTENANCE OF TRAFFIC PHASE 2 TEMP. SIGNAL AT BRIDGE RD & SHOULDERS HILL RD/KNOTTS NECK RD		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ	DRAWN BY: DEG DESIGNED BY: DEG APPROVED BY: WMP	SHEET NO. 1H(19A)
	DATE: 5/10/19		

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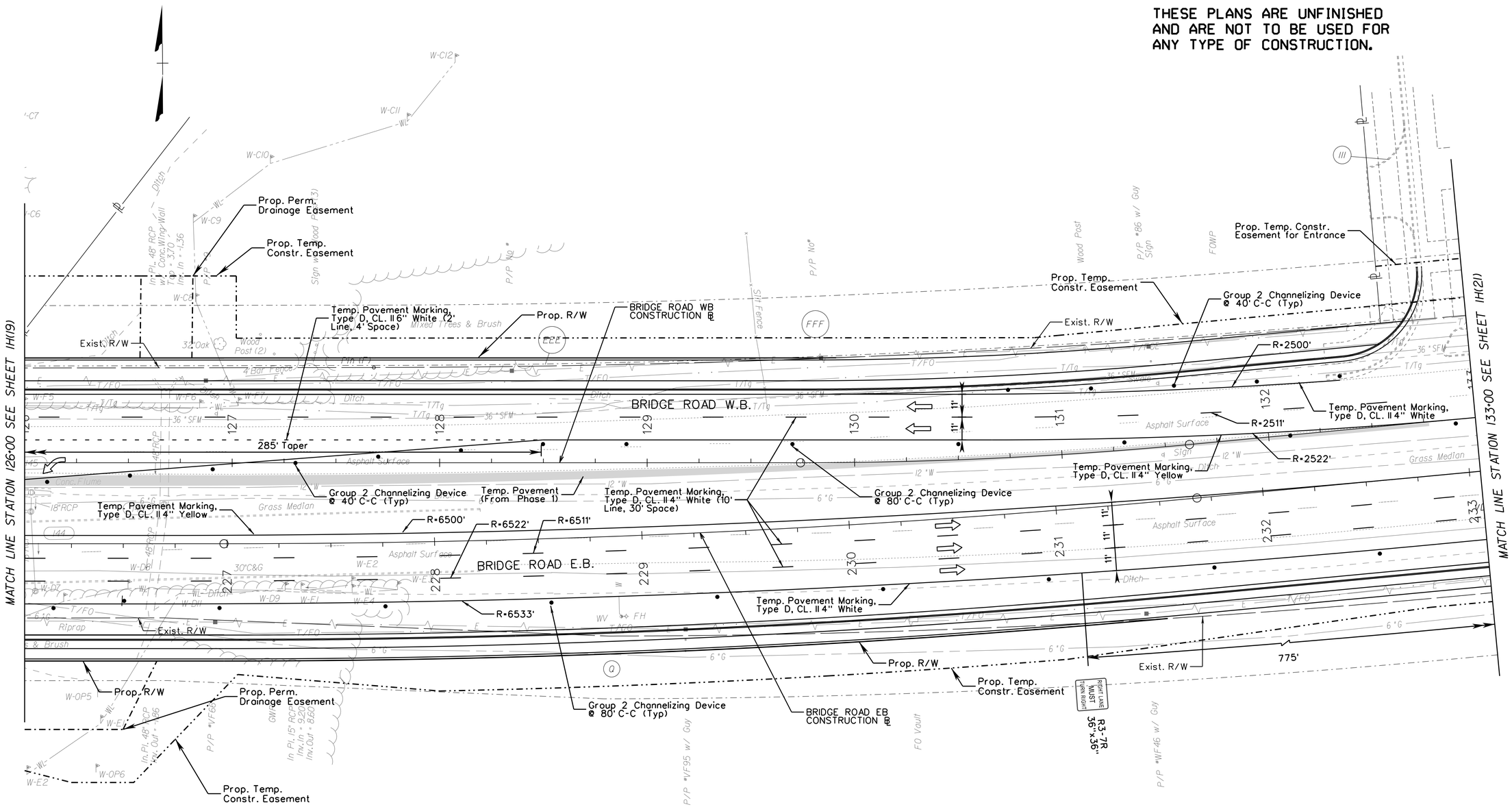

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 126+00 - STA 133+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

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M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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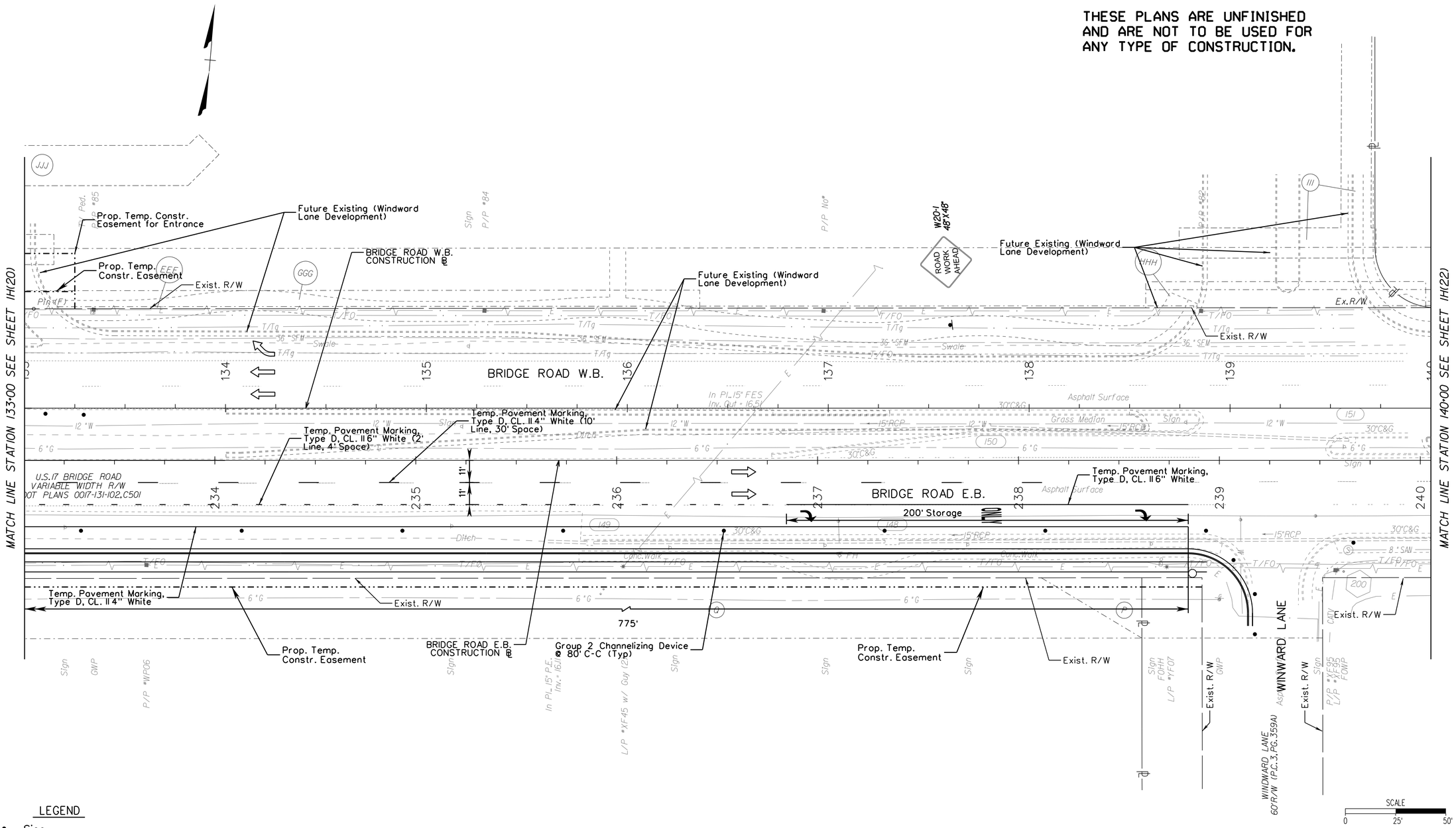

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 133+00 - STA 140+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

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M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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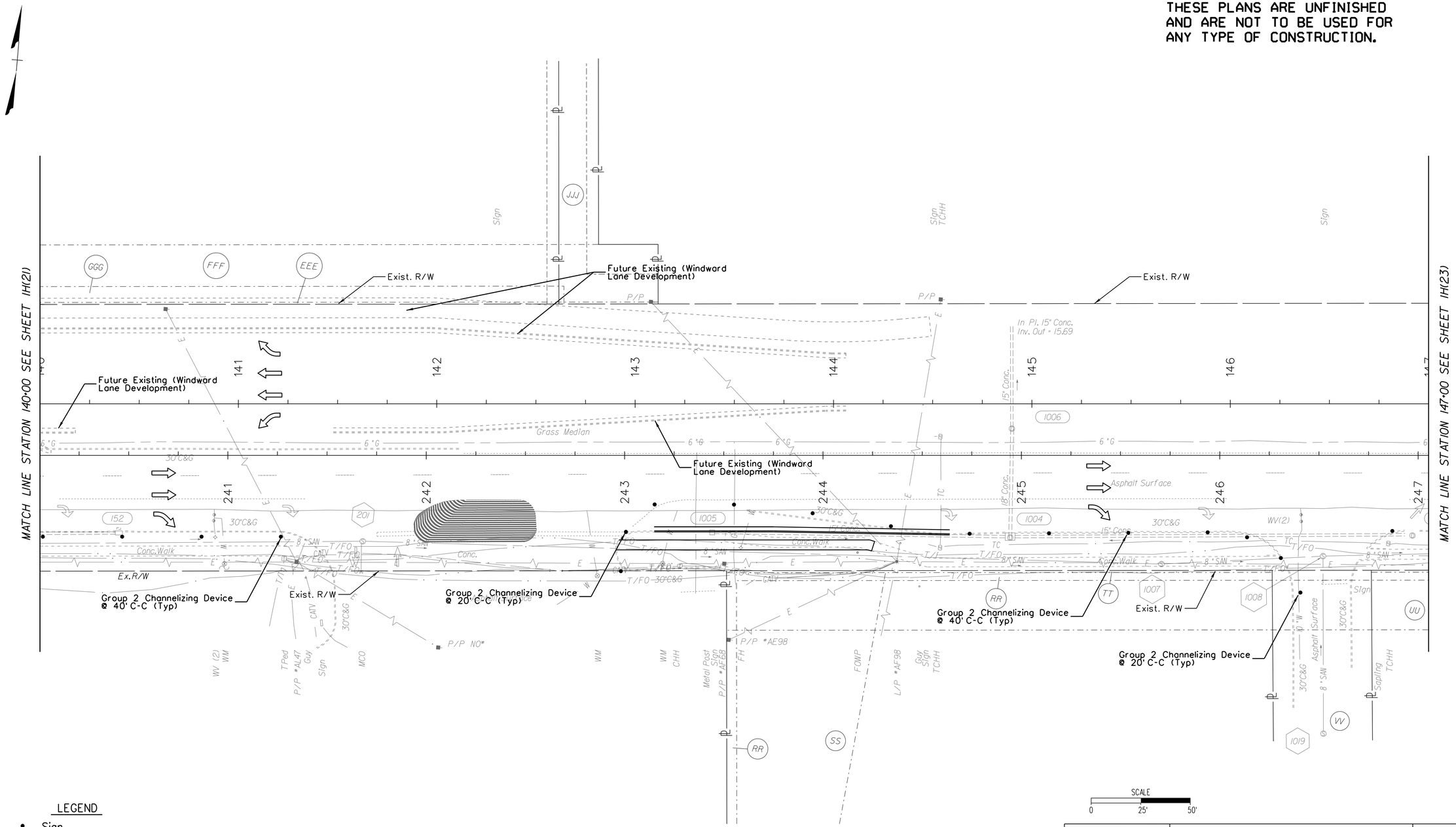

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 140+00 - STA 147+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

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DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
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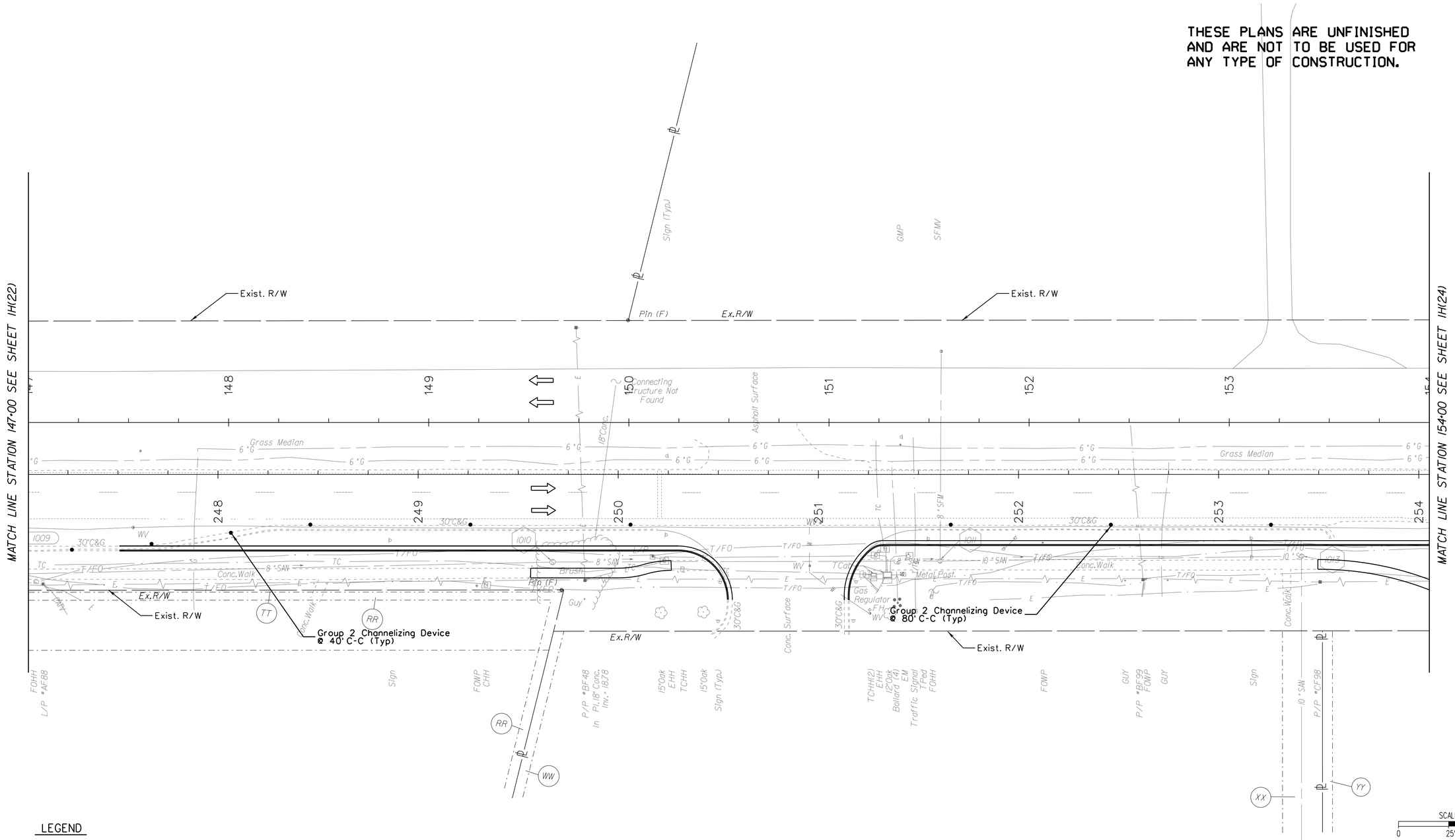

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 147+00 - STA 154+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	MSM	1H(23)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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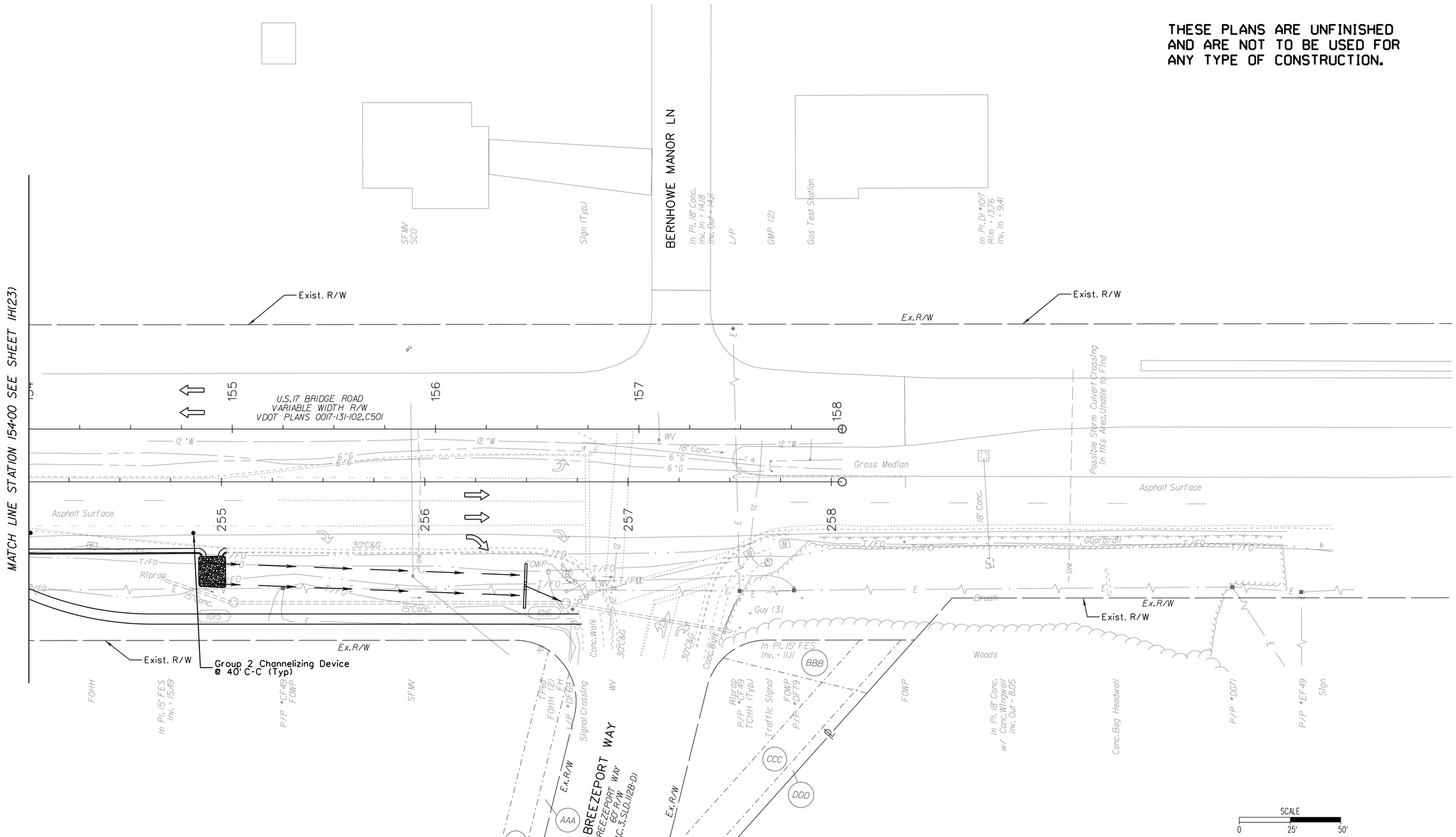

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 2 STA 154+00 - STA 158+00		
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ	DRAWN BY: MSM	
	DATE: 5/10/19	DESIGNED BY: MSM	SHEET NO. 1H(24)
		APPROVED BY: WMP	

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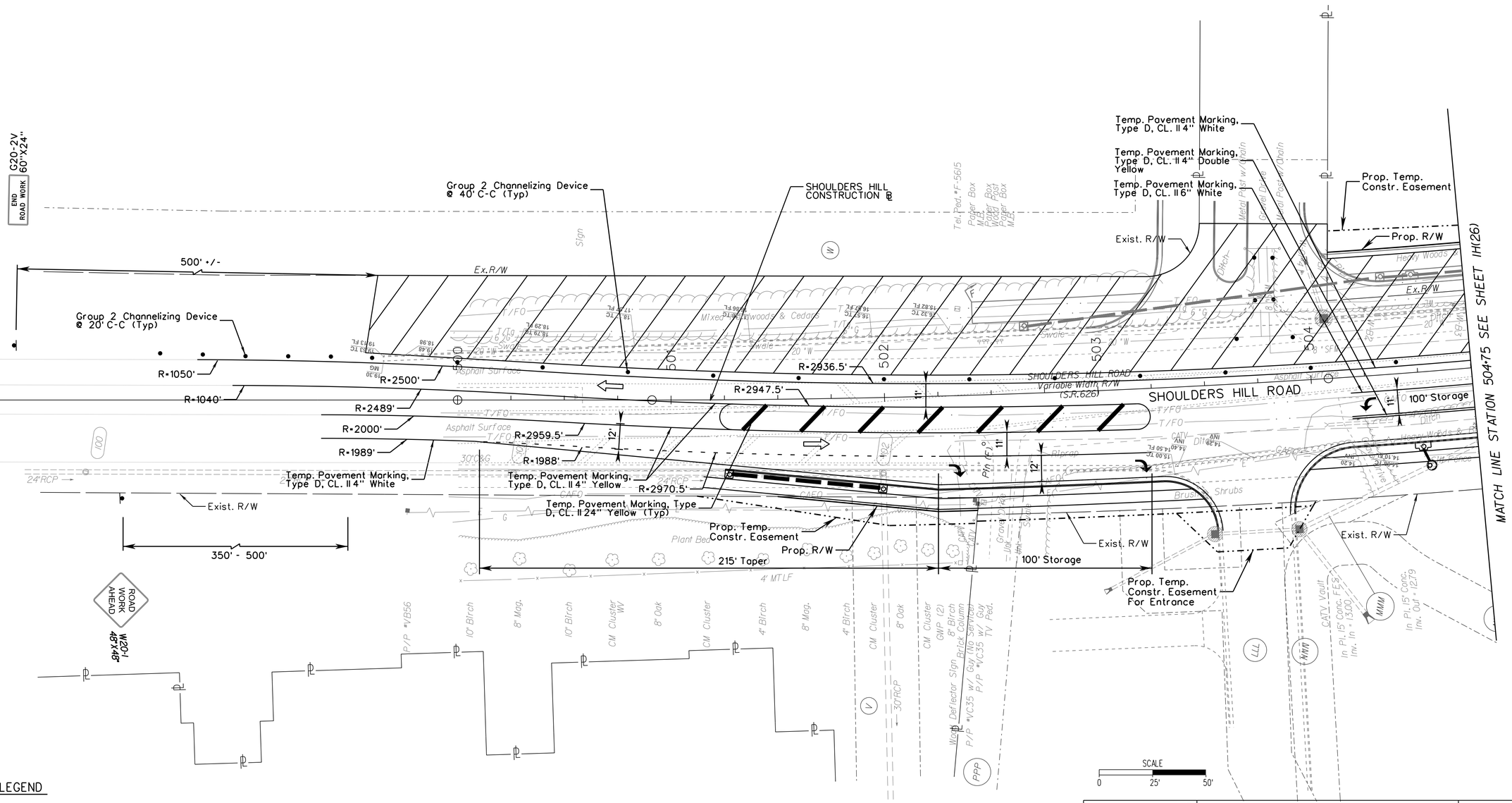

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1666 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 2 STA 490+50 - STA 504+75	
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 1H(25)

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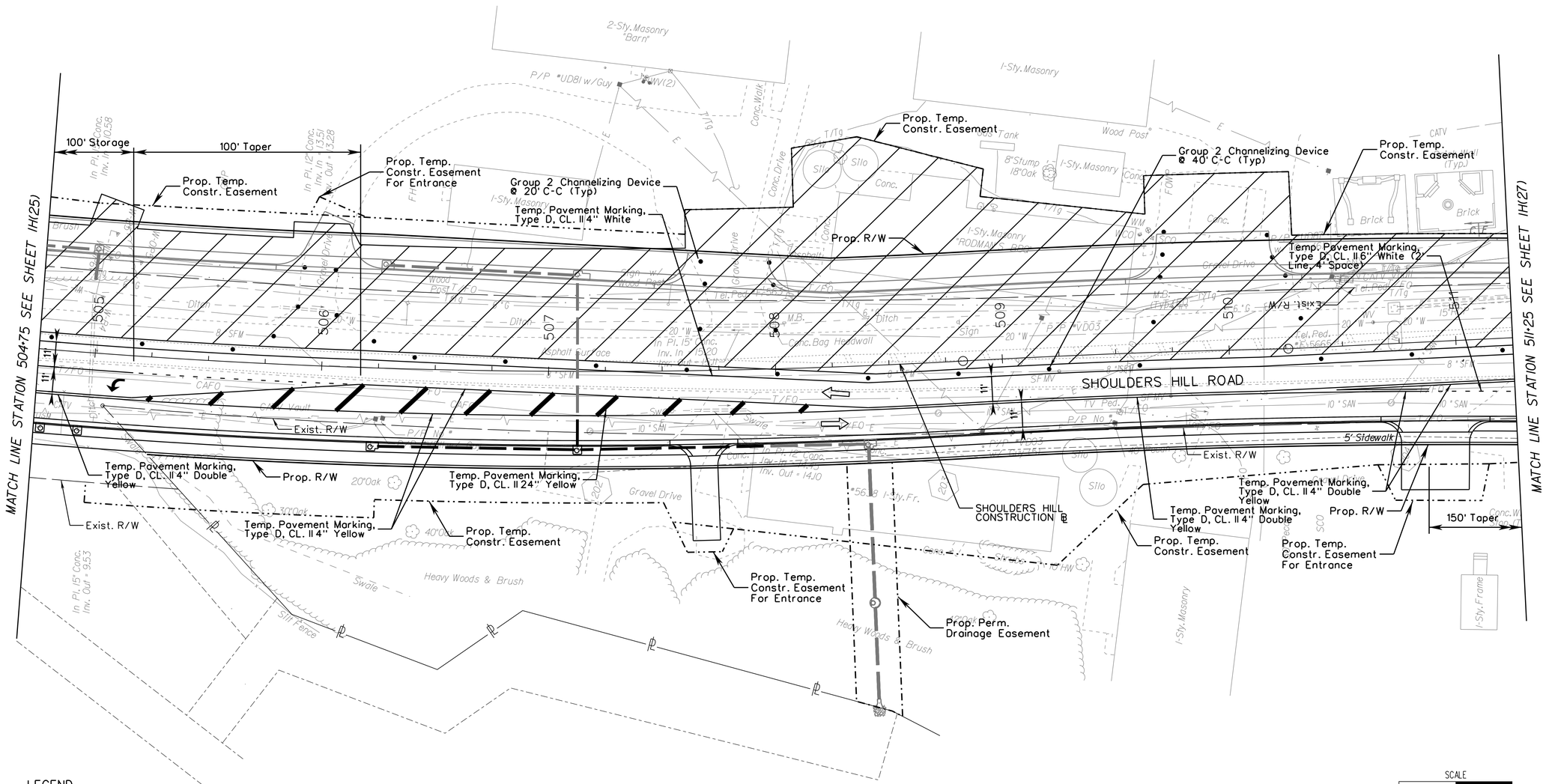

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1666 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 2 STA 504+75 - STA 511+25		
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 1H(26)

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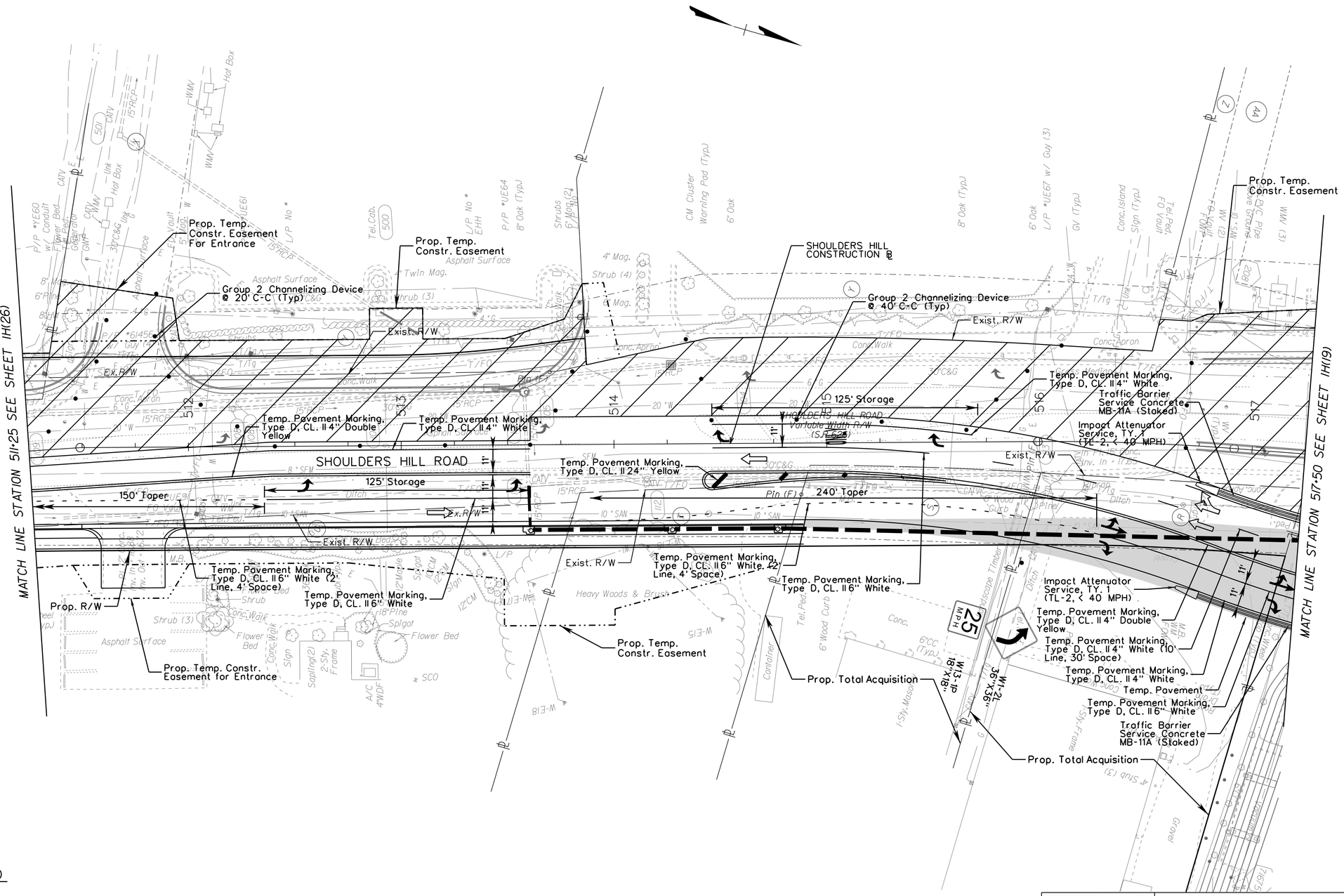

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — 19 74 — CITY of SUFFOLK VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 511+25 - STA 518+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

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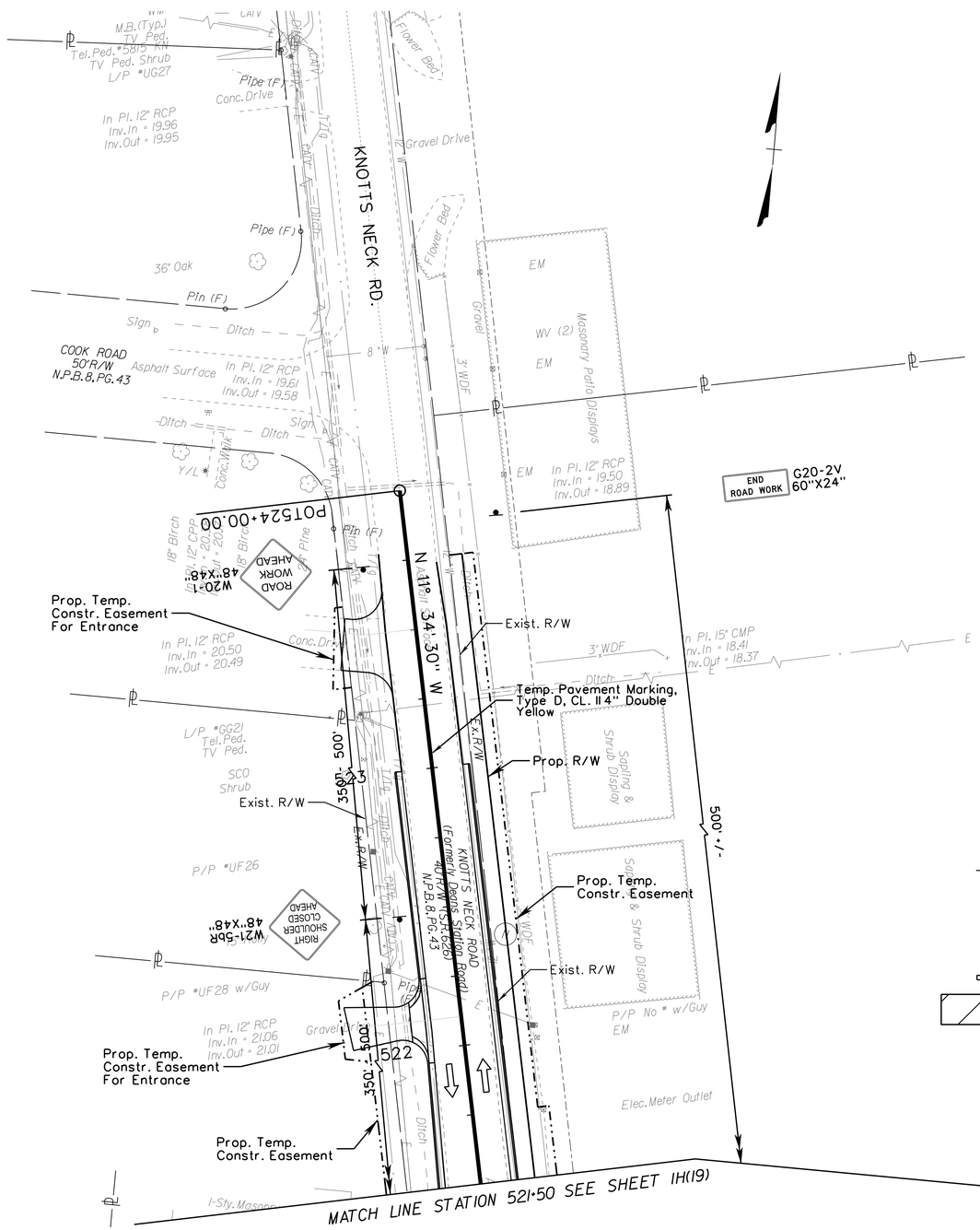

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 2
STA 521+50 - STA 524+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

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		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

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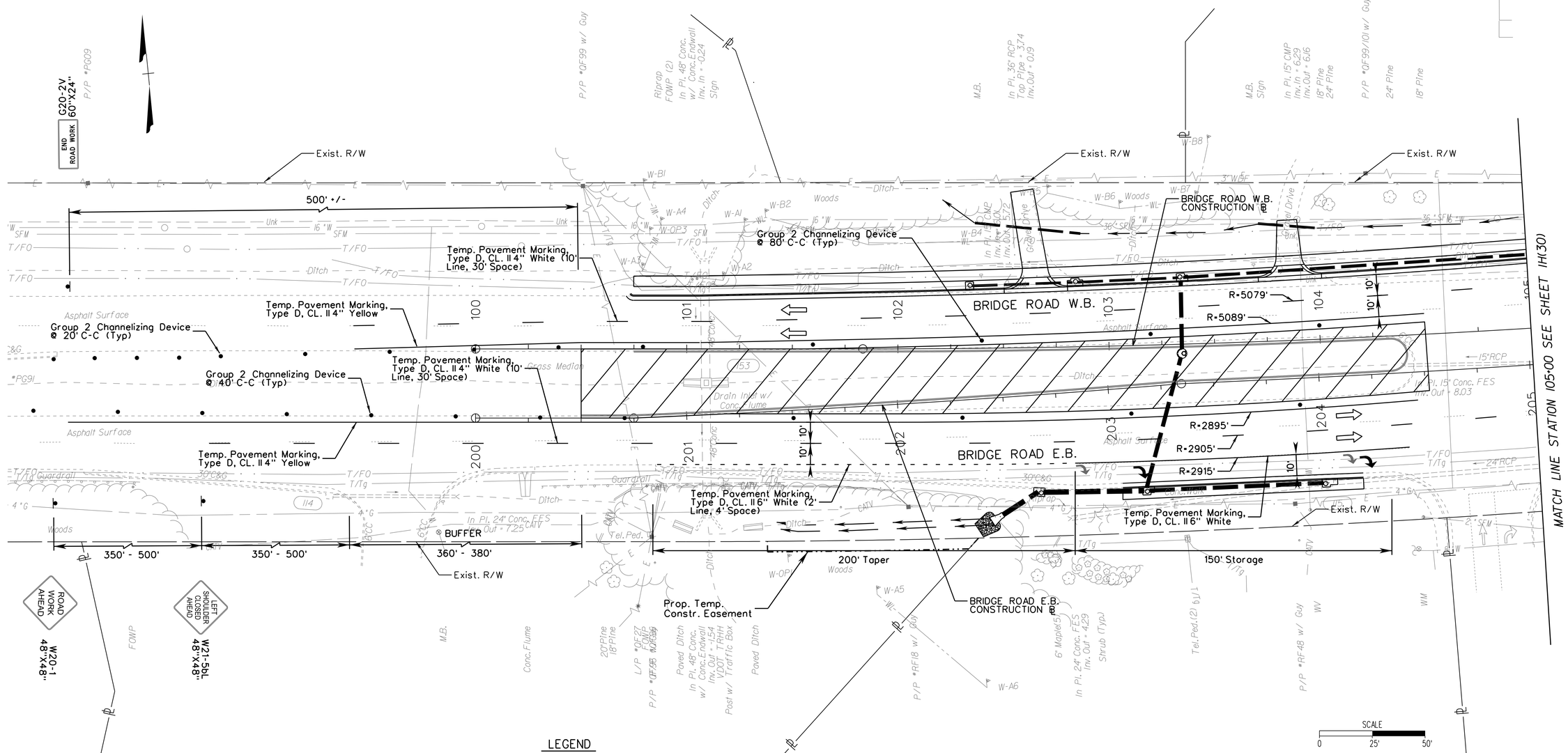

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 100+00 - STA 105+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	MSM
DESIGNED BY	MSM
APPROVED BY	WMP
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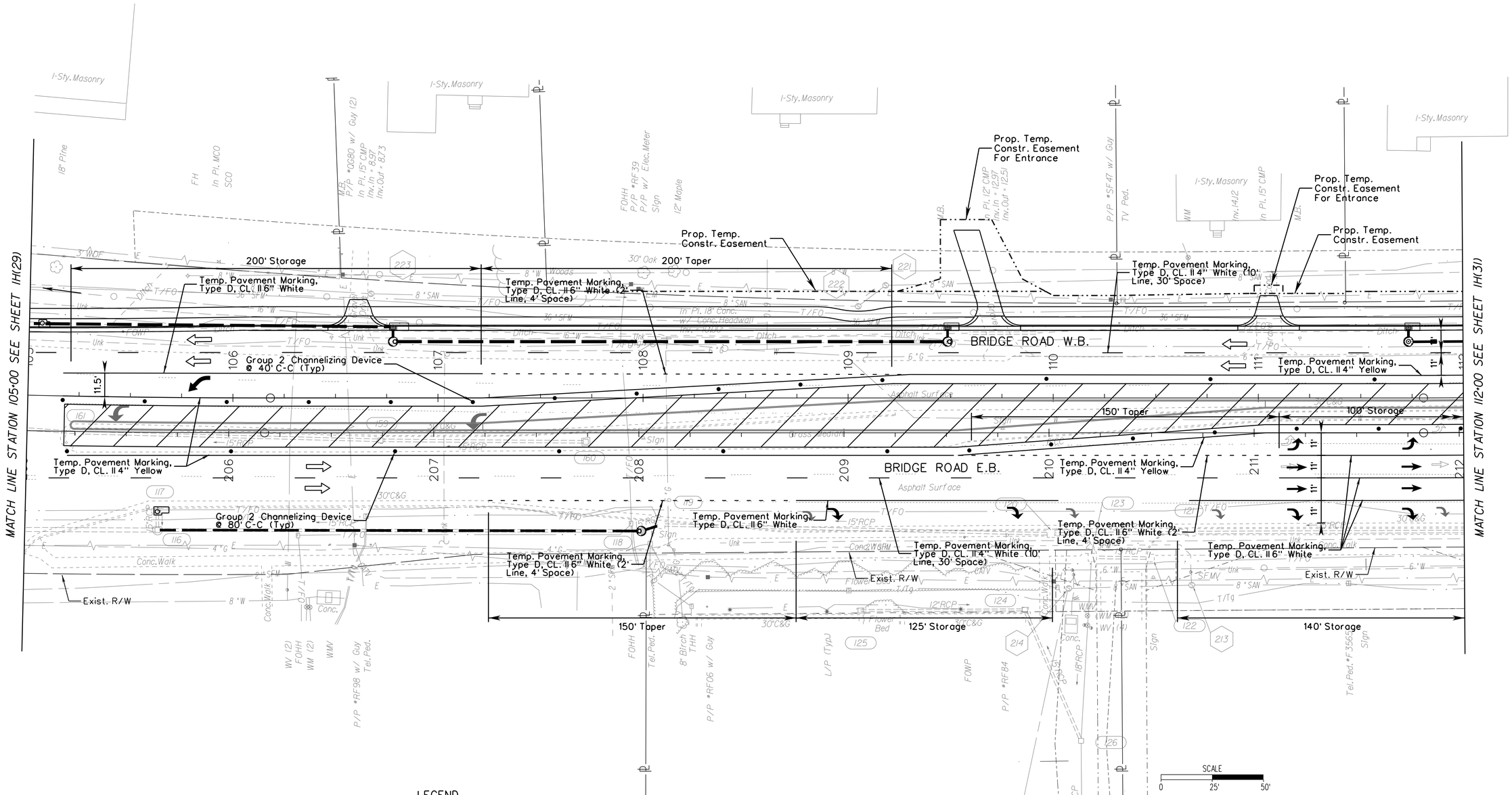

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
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- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 105+00 - STA 112+00

90% PRELIMINARY PLANS
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CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	MSM	1H(30)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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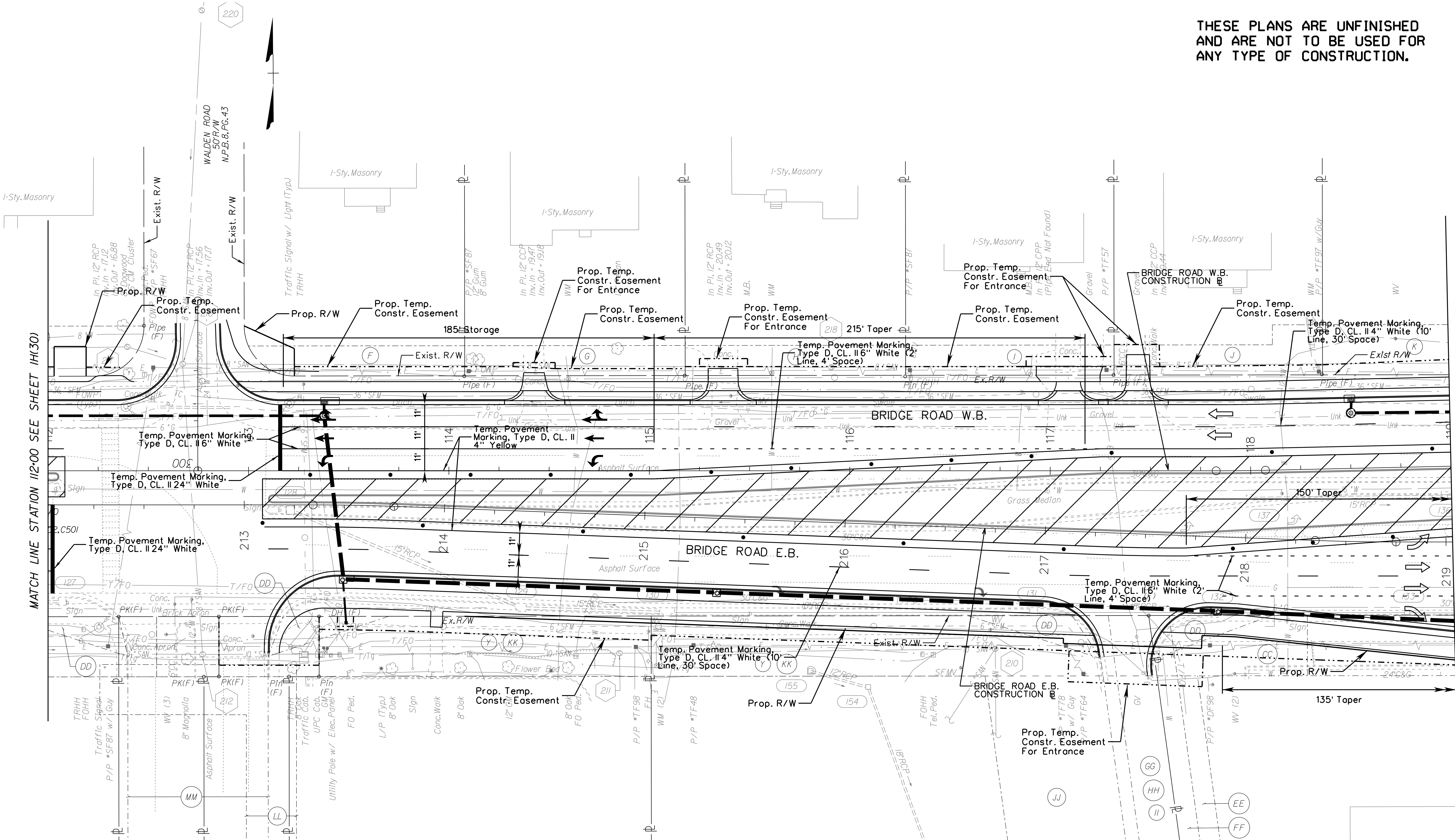

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- Temporary Pavement Symbol Marking Elongated Arrow Single
- Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 112+00 - STA 119+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP

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MATCH LINE STATION 521+50 SEE SHEET 1H(41)

MATCH LINE STATION 119+00 SEE SHEET 1H(31)

MATCH LINE STATION 126+00 SEE SHEET 1H(33)

MATCH LINE STATION 517+50 SEE SHEET 1H(40A)

KNOTTS NECK RD.

SHOULDERS HILL RD.

BRIDGE ROAD W.B.

BRIDGE ROAD E.B.

Prop. Temp. Constr. Easement for Entrance

Prop. Temp. Constr. Easement

Prop. R/W

Temp. Pavement Marking, Type D, CL. II 4" White (10' Line, 30' Space)

Prop. Temp. Constr. Easement

Prop. Perm. Drainage Easement

Temp. Pavement Marking, Type D, CL. II 24" White (Typ.)

Exist. R/W

Prop. Temp. Constr. Easement

Prop. R/W

Temp. Pavement Marking, Type D, CL. II 6" White

Temp. Pavement Marking, Type D, CL. II 6" White (2' Line, 4' Space)

Temp. Pavement Marking, Type D, CL. II 4" Yellow

Exist. R/W

205' Storage

Ex.R/W

Group 2 Channelizing Device @ 40' C-C (Typ)

Temp. Pavement Marking, Type D, CL. II 4" Yellow

Temp. Pavement Marking, Type D, CL. II 6" White (2' Line, 4' Space)

90' Storage

150' Taper

125' Taper

Prop. R/W

Prop. Temp. Constr. Easement

Temp. Pavement Marking, Type D, CL. II 6" White

Exist. R/W

Group 2 Channelizing Device @ 40' C-C (Typ)

Group 2 Channelizing Device @ 80' C-C (Typ)

Temp. Pavement (From Phase 2)

Group 2 Channelizing Device @ 20' C-C (Typ)

Temp. Pavement Marking, Type D, CL. II 4" White

PHASE 3A WORK ZONE

Temp. Pavement Marking, Type D, CL. II 4" Yellow

Prop. R/W

Temp. Pavement Marking, Type D, CL. II 4" White (10' Line, 30' Space)

Prop. Perm. Drainage Easement

Prop. Temp. Constr. Easement

Prop. R/W

Exist. R/W

Prop. Temp. Constr. Easement

Temp. Pavement Marking, Type D, CL. II 4" White (10' Line, 30' Space)

Prop. R/W

Prop. R/W

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

SCALE 0 25' 50'

OR Temporary Pavement Symbol Marking Elongated Arrow Single

OR Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3A
STA 119+00 - STA 126+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	MSM
DESIGNED BY	MSM
APPROVED BY	WMP
SHEET NO.	1H(32)

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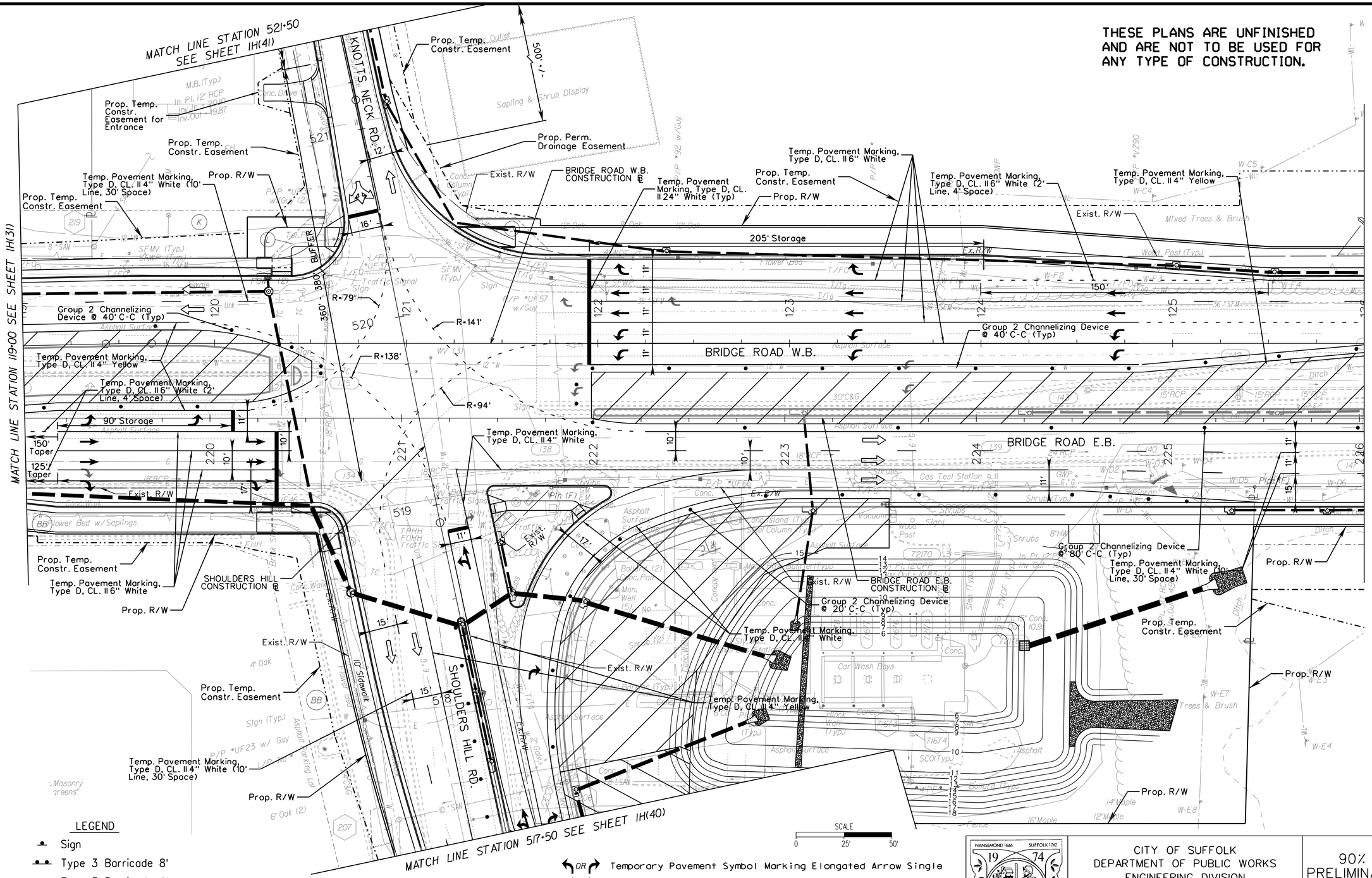

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR Temporary Pavement Symbol Marking Elongated Arrow Single

OR Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3B
STA 119+00 - STA 126+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

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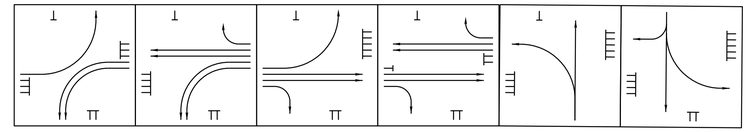
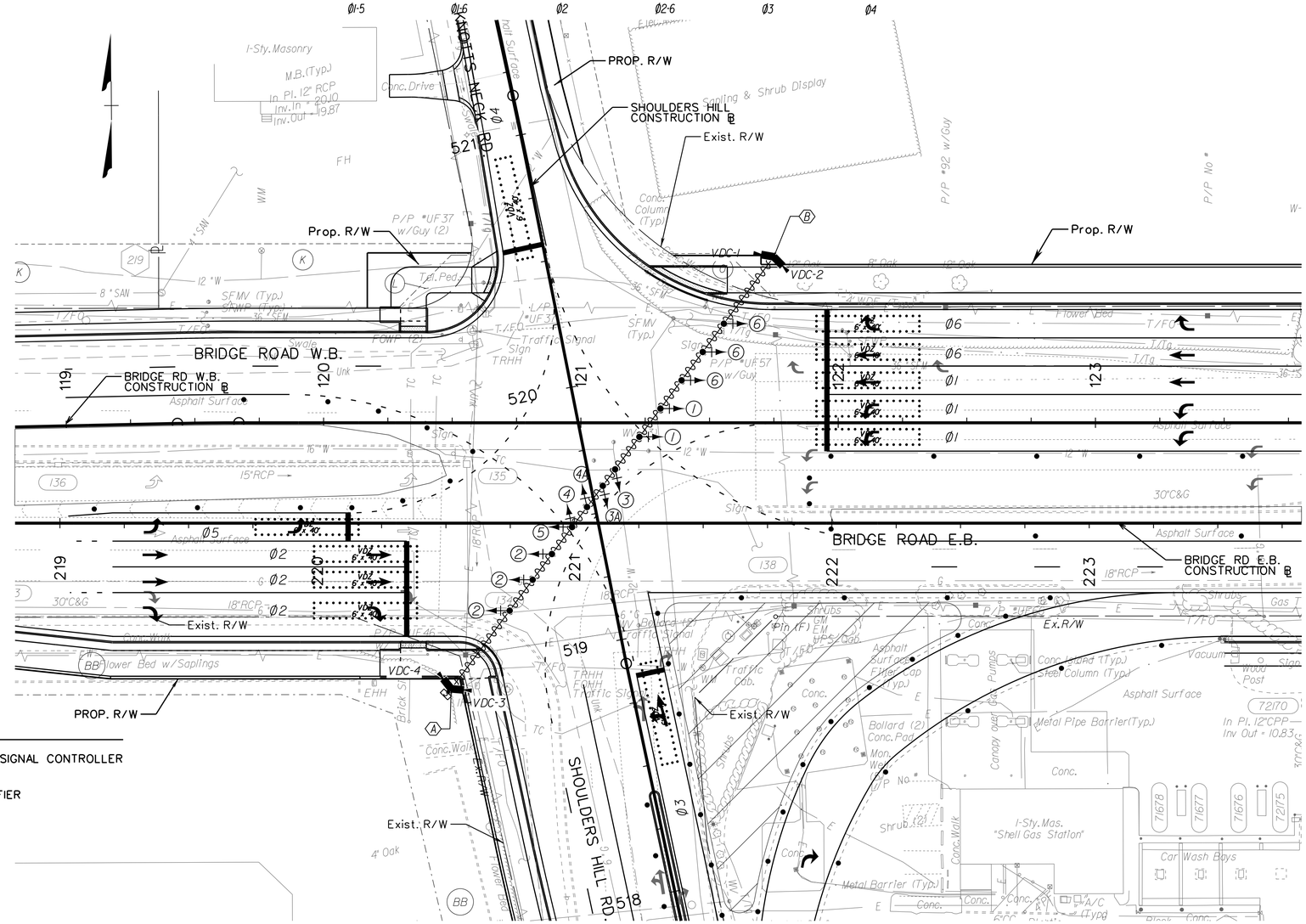
Phasing Diagram



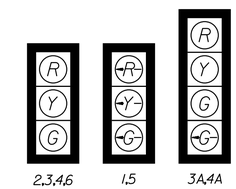


Temporary Signal Pole Legend

Ⓐ SIGNAL STRAIN POLE.TYPE WD-2
64.50' RT of Bridge Rd EB Constr.℄ Sta.220+52.00
Install Temporary Traffic Controller on pole

Ⓑ SIGNAL STRAIN POLE.TYPE WD-2
64.50' RT of Bridge Rd WB Constr.℄ Sta.121+75.00

Temporary Signal Heads



NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO:
   A) ENSURE THAT TEMPORARY SIGNAL TIMINGS ARE COORDINATED WITH TRAFFIC OPERATIONS AT LEAST 72 HOURS PRIOR TO INTENDED ACTIVATION.
   B) COORDINATE WITH DOMINION ENERGY TO BRING POWER TO THE TEMPORARY SIGNAL POLE.
2. THE MINIMUM MOUNTING HEIGHT TO THE BOTTOM OF THE SIGNAL HOUSING SHALL BE 16'.
3. SIGNAL HEADS TO BE PLACED WITHIN THE TRAVEL LANE OF THE APPROACH.
4. GUY WIRES SHALL BE INSTALLED AS NECESSARY.
5. TEMPORARY TRAFFIC SIGNAL POLE LOCATIONS SHALL BE STAKED AND THEIR LOCATION VERIFIED BY TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

LEGEND

- POLE MOUNTED TEMPORARY TRAFFIC SIGNAL CONTROLLER
- SIGNAL HEAD WITH IDENTIFIER
- TEMP. WOOD SIGNAL POLE AND IDENTIFIER
- VIDEO DETECTION ZONE
- VDC-2 VIDEO DETECTION CAMERA
- SPAN WIRE WITH SIGNAL CABLES

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1666 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

BRIDGE RD & SHOULDERS HILL RD
INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC PHASE 3A
TEMP. SIGNAL AT BRIDGE RD &
SHOULDERS HILL RD/KNOTTS NECK RD

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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CITY PROJECT MANAGER	M. VELASQUEZ
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DESIGNED BY	DEG
APPROVED BY	WMP
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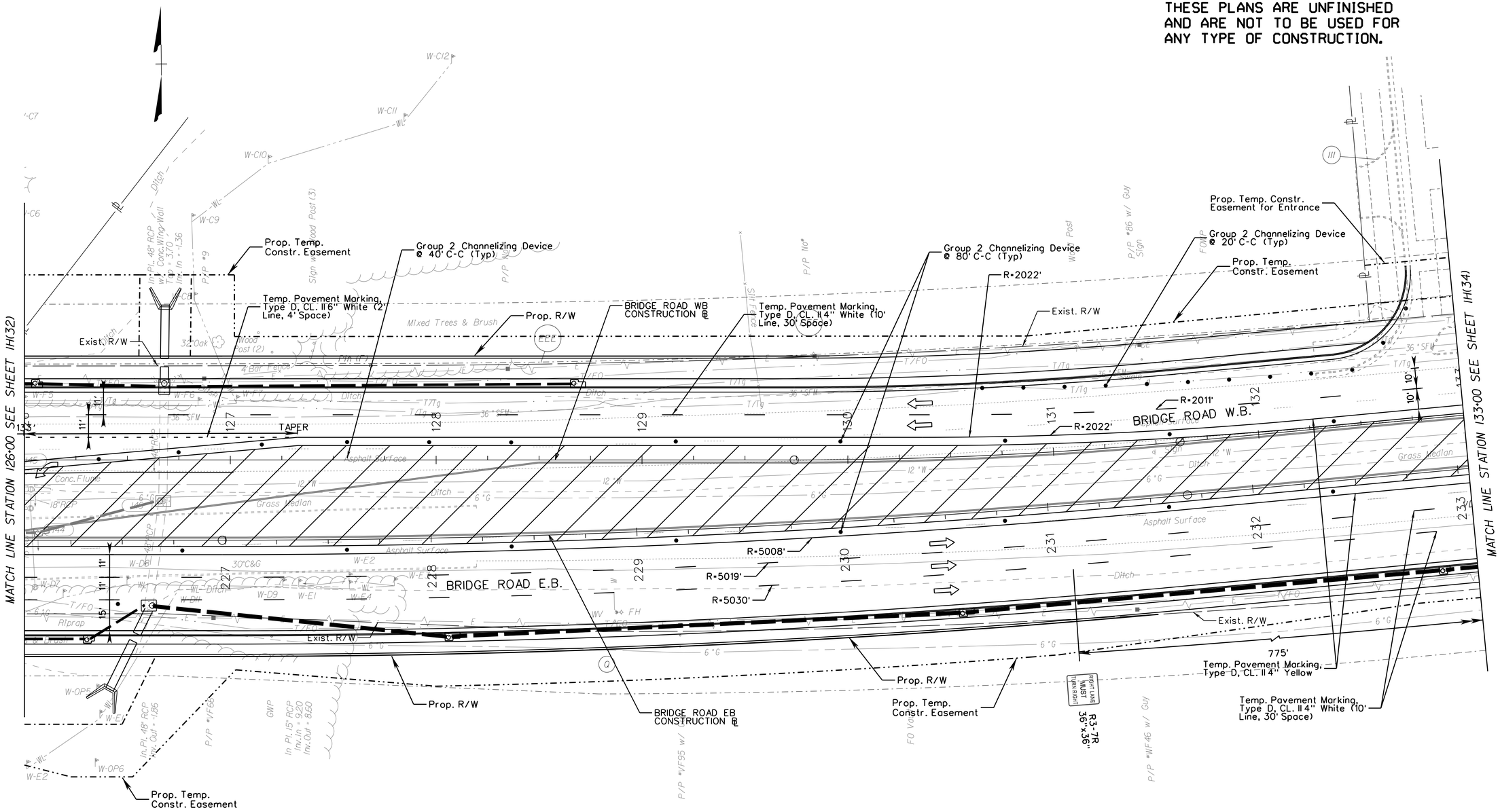

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 126+00 - STA 133+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

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M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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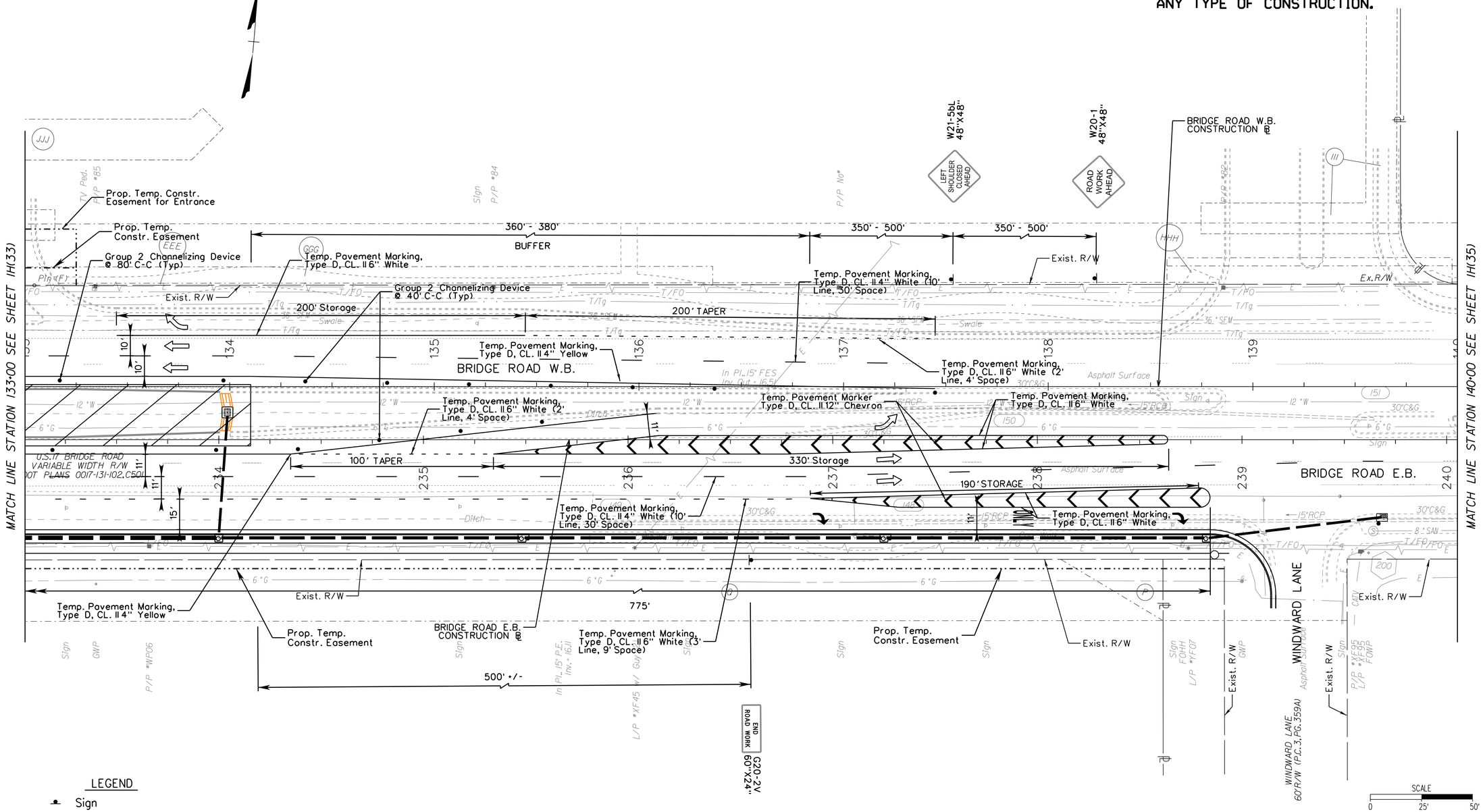

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 133+00 - STA 140+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

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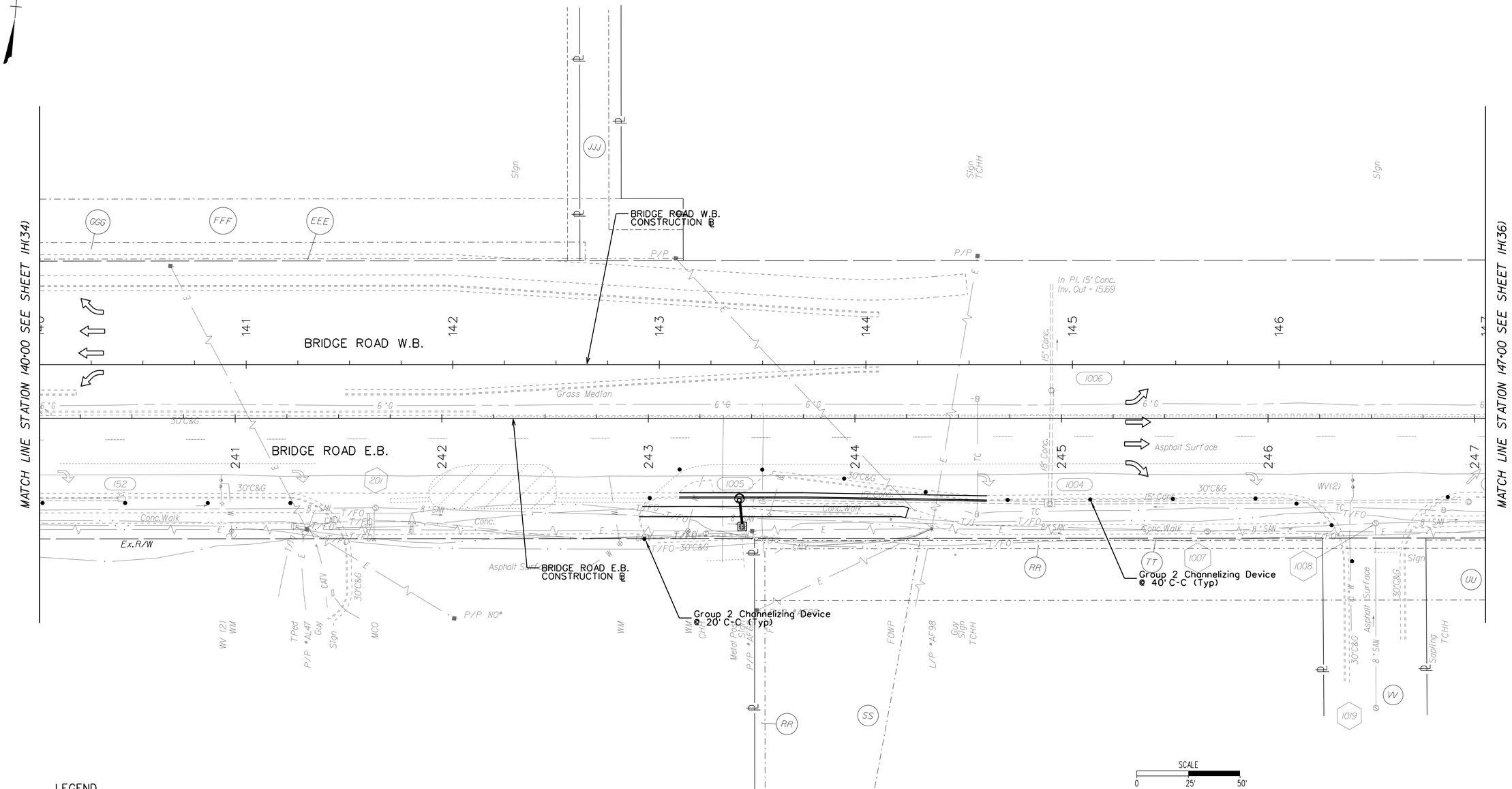

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

OR — Temporary Pavement Symbol Marking Elongated Arrow Single

OR — Temporary Pavement Symbol Marking Elongated Arrow Double

Temporary Pavement Symbol Marking Thru Arrow

ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 140+00 - STA 147+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: M. VELASQUEZ
DATE: 5/10/19
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DESIGNED BY: MSM
APPROVED BY: WMP

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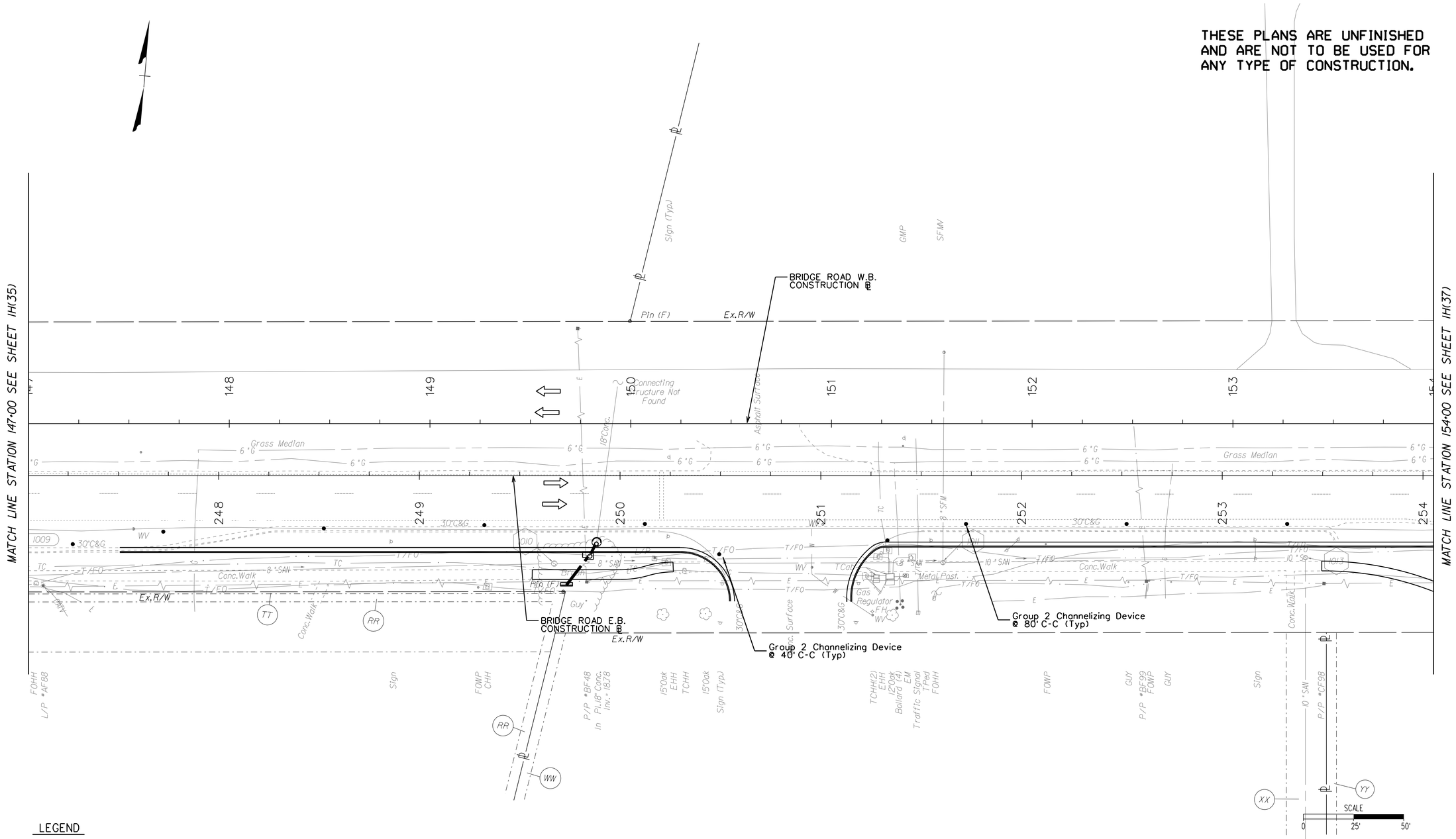

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 — 19 74 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 3 STA 147+00 - STA 154+00	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
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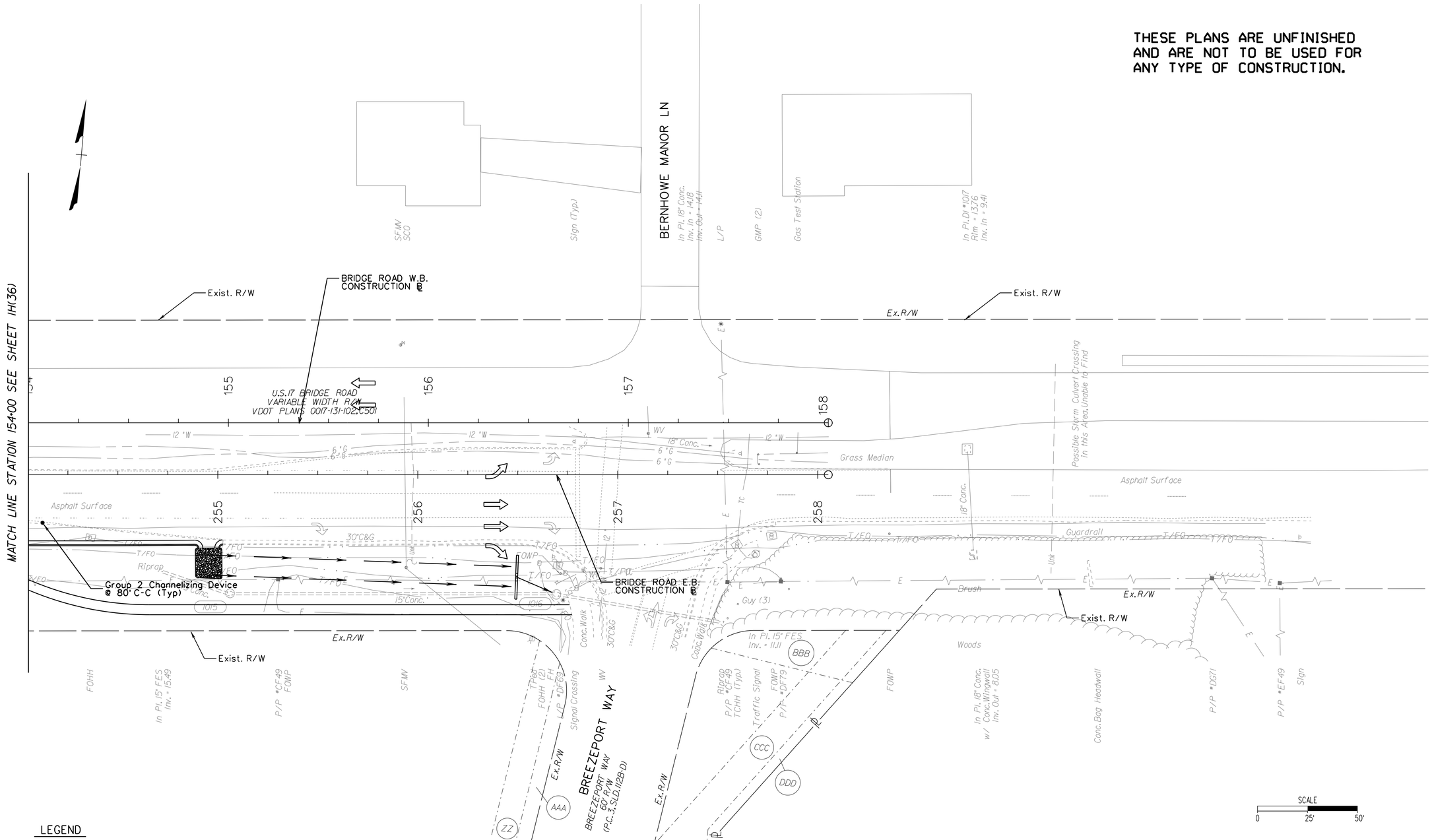

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- Temporary Pavement Symbol Marking Elongated Arrow Single
- Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 MAINTENANCE OF TRAFFIC PHASE 3 STA 154+00 - STA 158+00		
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		SHEET NO. 1H(37)

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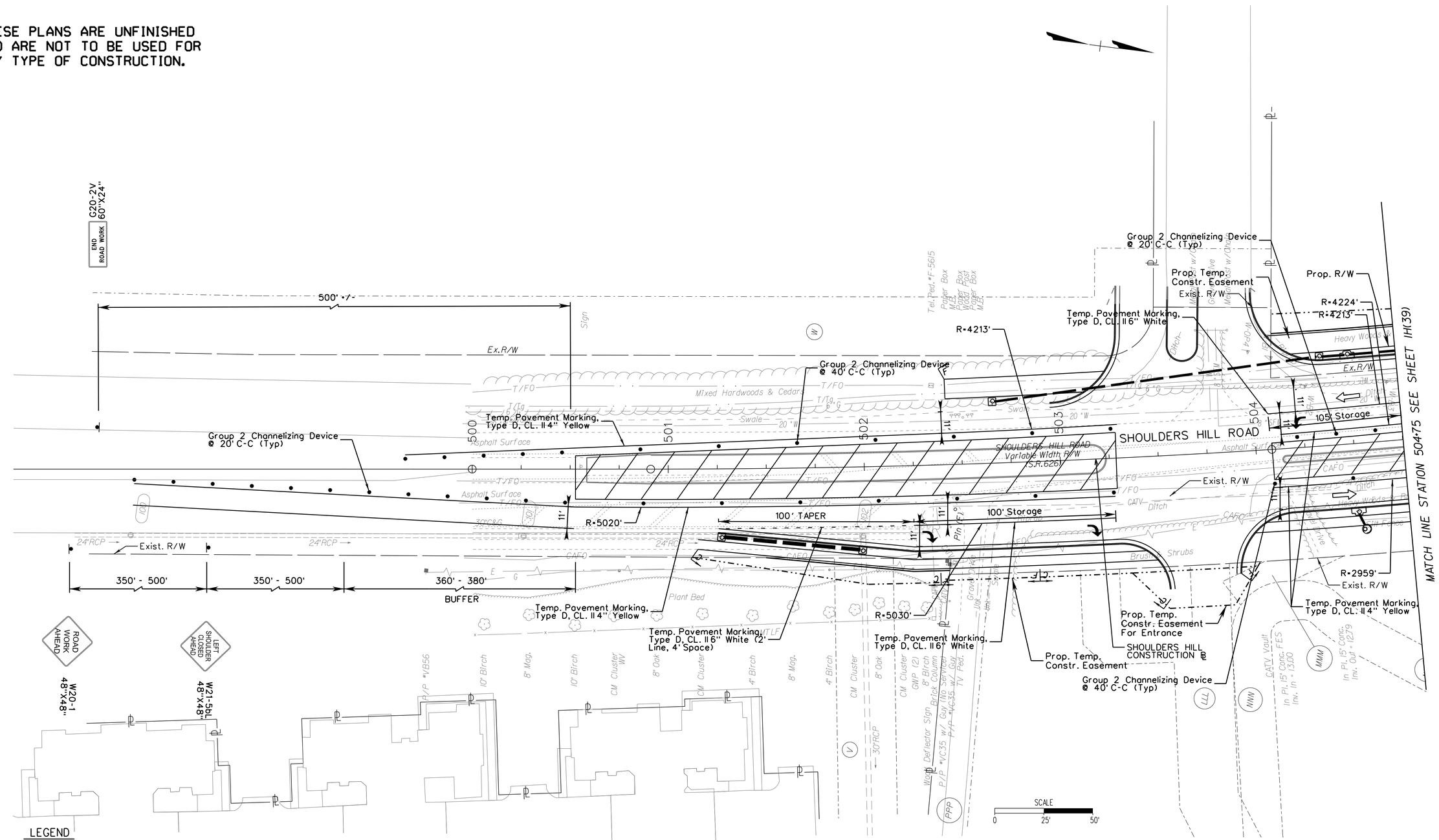

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 490+50 - STA 504+75

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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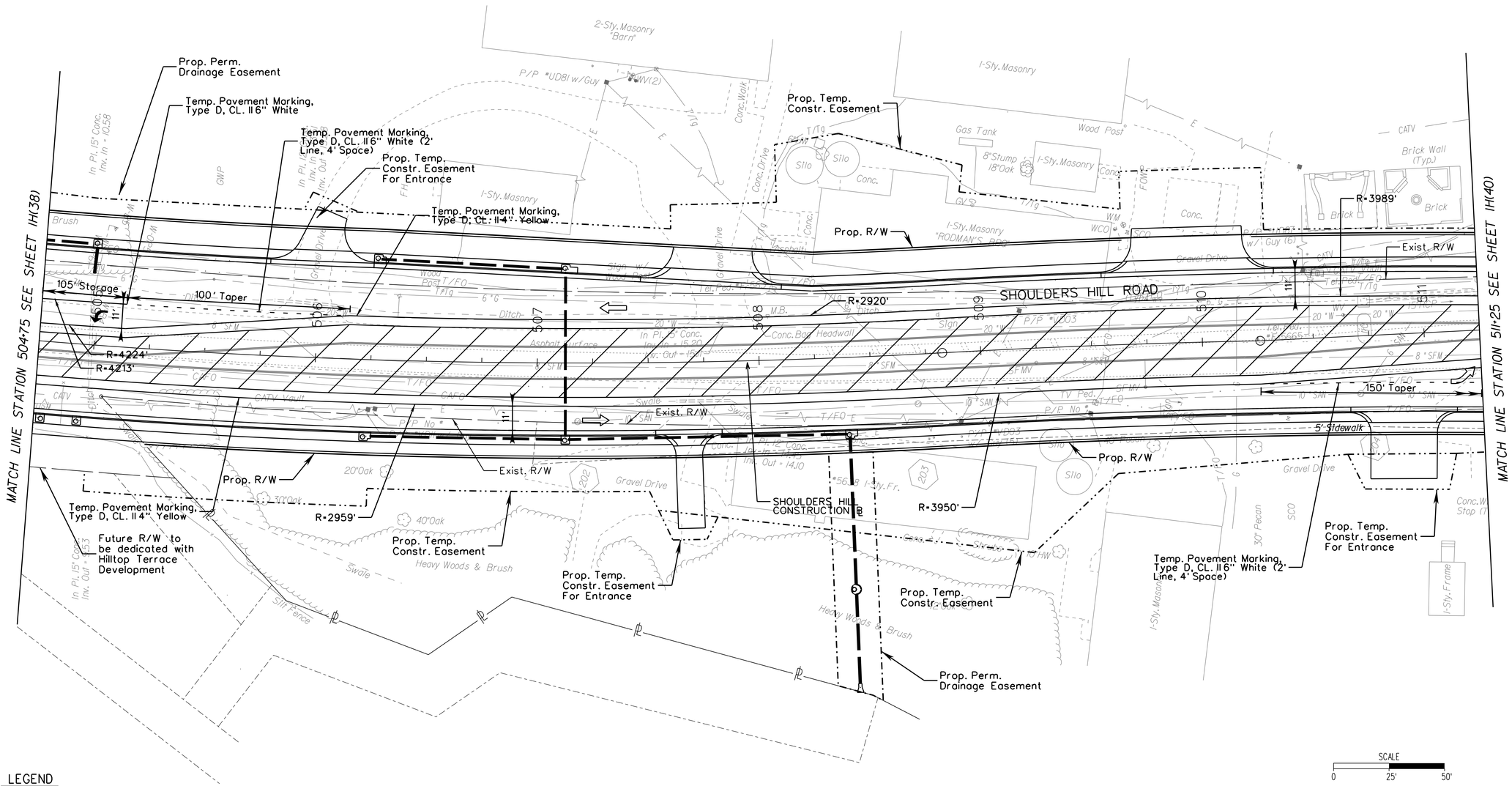

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 504+75 - STA 511+25

90% PRELIMINARY PLANS
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CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
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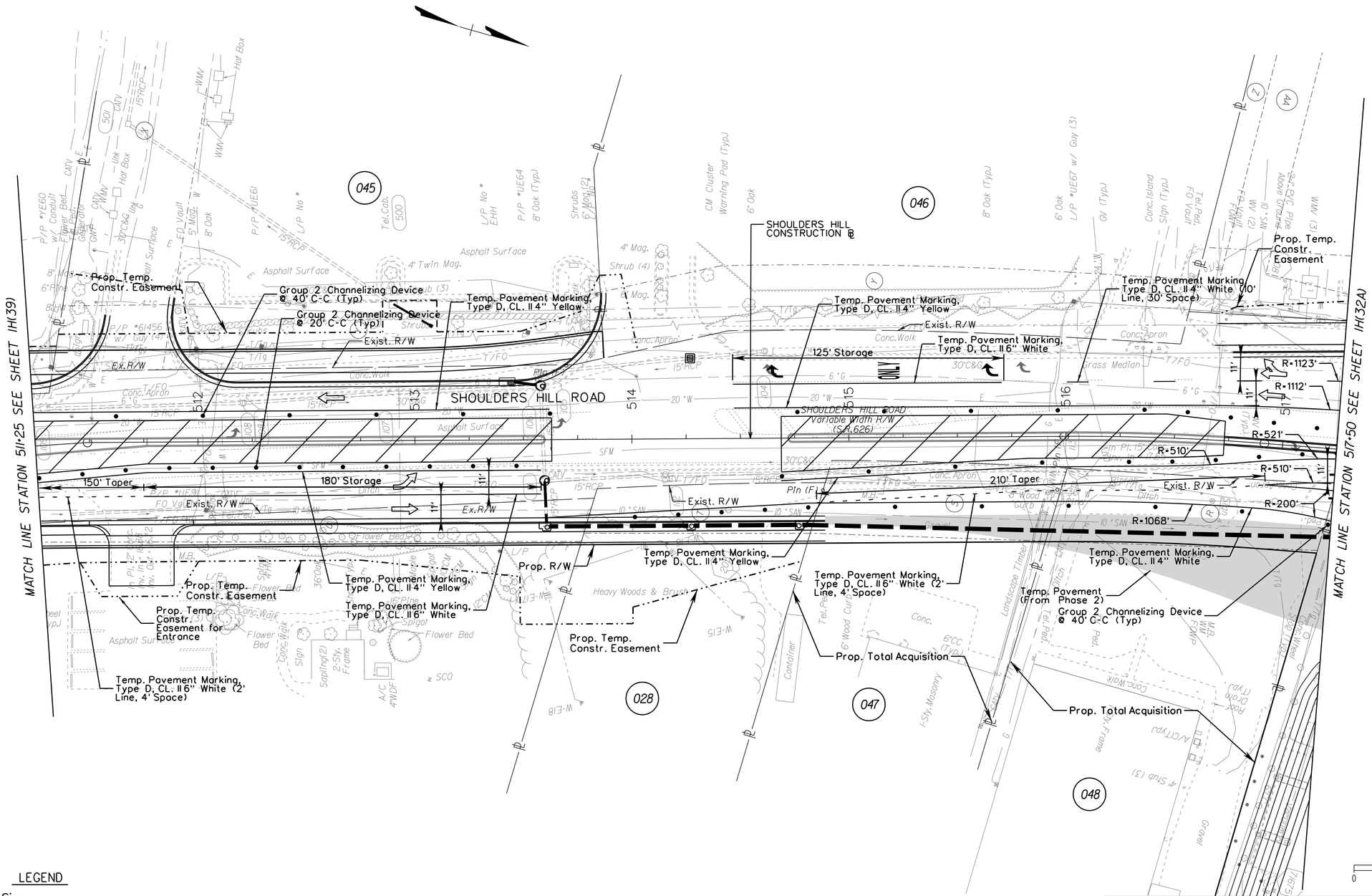

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3A
STA 511+25 - STA 518+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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M. VELASQUEZ	DESIGNED BY	MSM	
DATE 5/10/19	APPROVED BY	WMP	SHEET NO. 1H(40)

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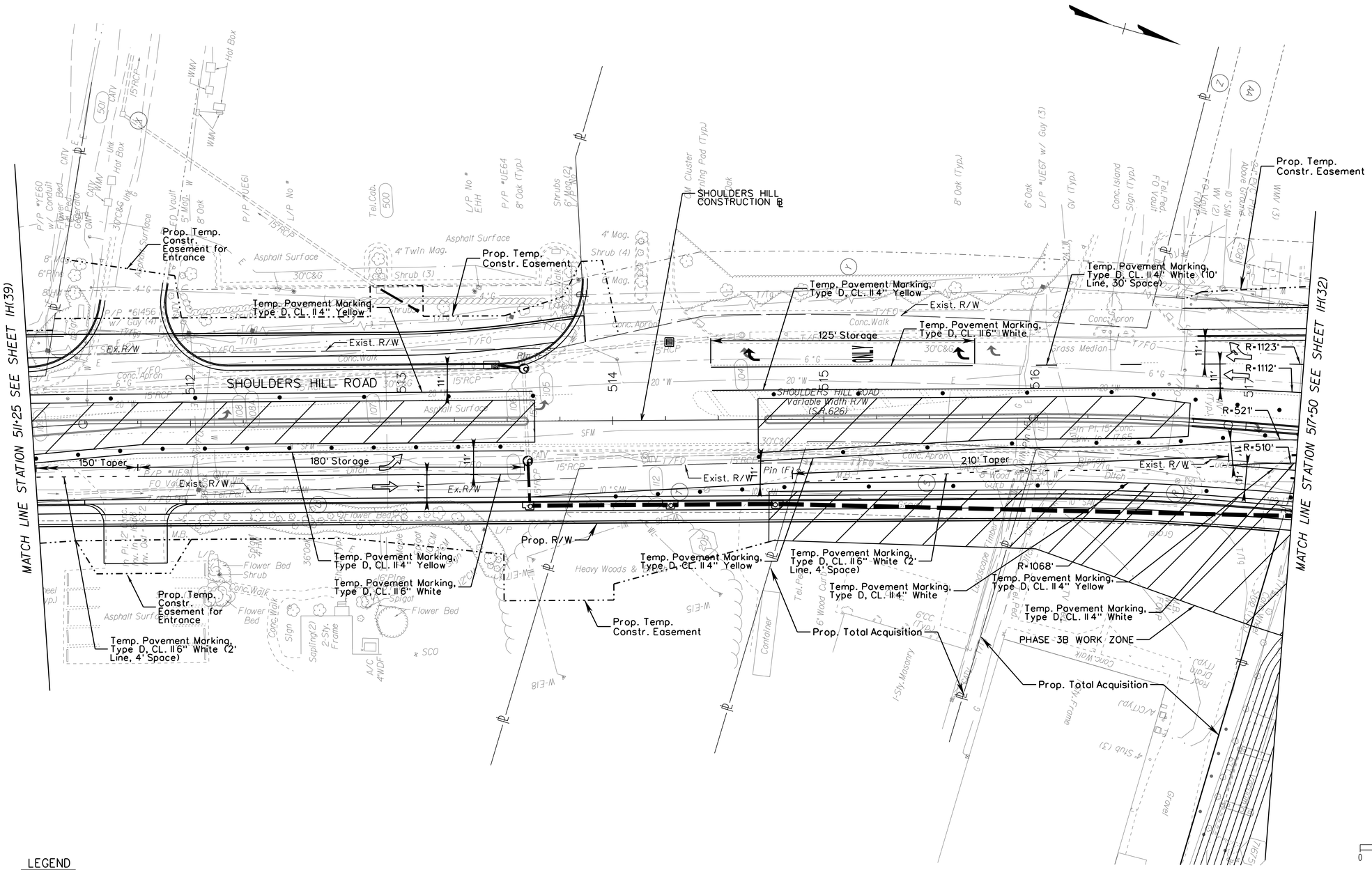

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone
- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
- OR — Temporary Pavement Symbol Marking Elongated Arrow Double
- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 511+25 - STA 518+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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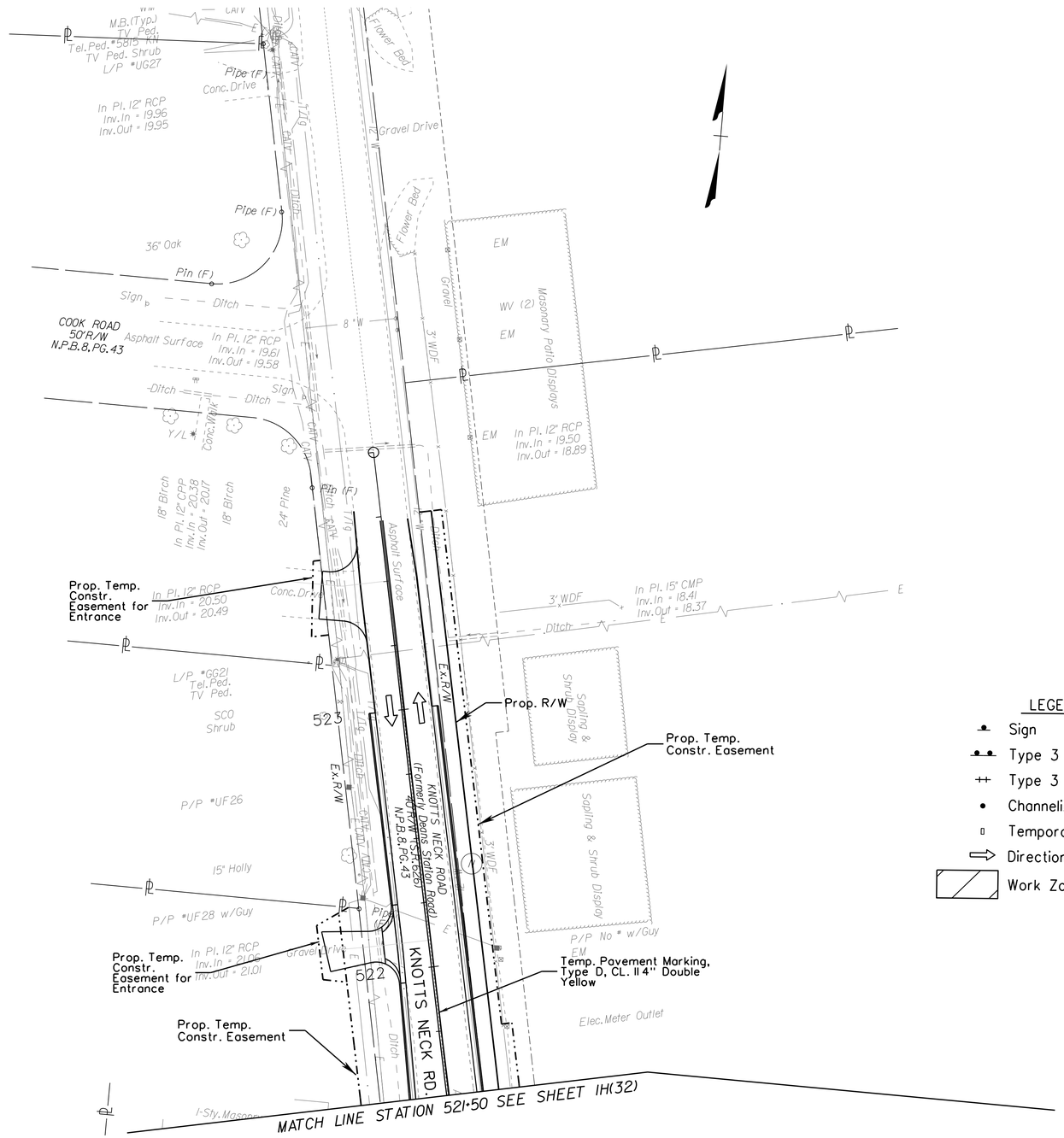

LEGEND

- Sign
- Type 3 Barricade 8'
- Type 3 Barricade 4'
- Channelizing Device
- Temporary Pavement Marker
- Direction of Traffic
- Work Zone

- OR — Temporary Pavement Symbol Marking Elongated Arrow Single
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- Temporary Pavement Symbol Marking Thru Arrow
- ONLY — Temporary Pavement Message Marking ONLY

Note: All Temporary Pavement Symbol Markings Shall Be Type D Class II

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
MAINTENANCE OF TRAFFIC PHASE 3
STA 521+50 - STA 524+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

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GENERAL NOTES

GRADING

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

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

G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: curb, curb and gutter, pipes, structures and sidewalks

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

G-6 The borrow material for this project shall be as detailed in the Project Manual

G-7 Material from regular excavation which is suitable for stabilization with hydraulic cement (lime) shall be placed in the top portion of the subgrade.

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 City 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 Class III or IV RCP. 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 Road and Bridge Standards PC-1.

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

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

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

D-11 The proposed grandular 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 Road and Bridge Standard PP-1. Basis of Payment will be C.Y. of Flowable Backfill.

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

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

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

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.

D-18 Stated pipe lengths are from center of structure to center of structure, except at endwalls and end sections, where they are measured to endwall or end section connections.

INCIDENTALS

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

I-5 That portion of the right of way lying within the Clear Zone or within a minimum of 10 feet from the edge of pavement or surfacing or within the limits of the construction slopes beyond 10 feet, shall be cleared and grubbed in accordance with the applicable VDOT Road and Bridge Specifications, Section 301, where sufficient right of way or construction easement is provided.

I-6 Certain trees shall be preserved as noted on plans or as directed by the Engineer.

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

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

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

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

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

Hydraulic Design	-	Clark Nexsen
Roadway Design	-	Clark Nexsen
Utility Design	-	Clark Nexsen
Utility Designation	-	Precision Measurements, Inc.
Utility Location	-	Precision Measurements, Inc.
Survey	-	Precision Measurements, Inc.
Bridge Design	-	-
Traffic Design	-	Clark Nexsen
Landscape Design	-	-

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

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

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

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

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

STORMWATER MANAGEMENT

S-1 CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam is to be constructed and the area upstream of the dam, to an elevation equal to the crest of the dam (maximum ponded water elevation), shall be cleared and grubbed in accordance with Section 301 of the applicable VDOT Road and Bridge Specifications.

S-2 SWM BASIN DAM CONSTRUCTION - The dam for detention basins (no permanent pool) shall conform to the details contained in the plans and shall be constructed in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications. The native material on which the dam will set shall meet the specifications for AASHTO Type A-4 or finer material. Where the native material does not meet this requirement, the area beneath the dam is to be excavated a minimum of 4' and backfilled with a material meeting the AASHTO Type A-4 or finer classification unless otherwise specified in the plans. The material used for the embankment of the dam shall be AASHTO Type A-4 or finer or otherwise specified in the plans. Dams with foundation and embankment material not meeting the above requirements or dams greater than 15' in height, or dams for retention basins (permanent pool) shall incorporate a membrane-lined trench, a homogenous embankment with seepage controls, a zoned embankment or other such approved designs as specified in the plans.

S-3 SWM BASIN OUTLET PIPE - The pipe culvert under or through the dam for detention basins (no permanent pool) shall be reinforced concrete pipe with rubber gaskets in accordance with Section 232 and 212 of the applicable VDOT Road and Bridge Specifications. A concrete cradle shall extend the full length of the pipe culvert in accordance with the Standard Drawings. The connection between the pipe culvert and the SWM-1 Drainage Structure (or other control structure) shall be made watertight as approved by the Engineer and the cost shall be included in the price bid for pipe.

S-4 The SWM-1 Drainage Structure (or other control structure) shall have 4" high numbers and 1" wide stripes painted at 1' intervals as shown on the Standard Drawings or detail sheets. The numbers and stripes are to be installed at the time of the initial installation of the SWM-1 Drainage Structure (or other control structure). Paint and application shall be in accordance with Section 231 and 411 of the applicable VDOT Road and Bridge Specifications and the cost is to be included in the price bid for the applicable structure.

EROSION AND SEDIMENT CONTROL (ESC)

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

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

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 GENERAL NOTES		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 2

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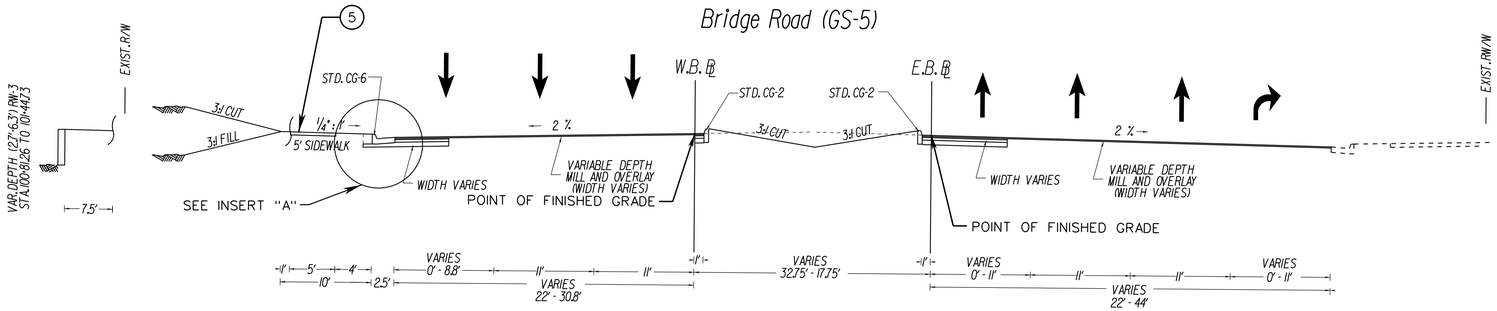
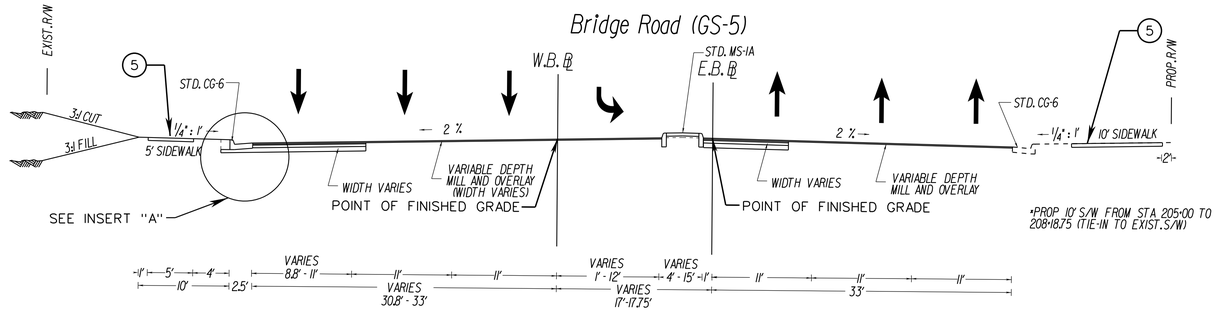
TYPICAL SECTIONS



STA.101+00.00 TO STA.105+00.00

STA.201+00.00 TO STA.205+00.00

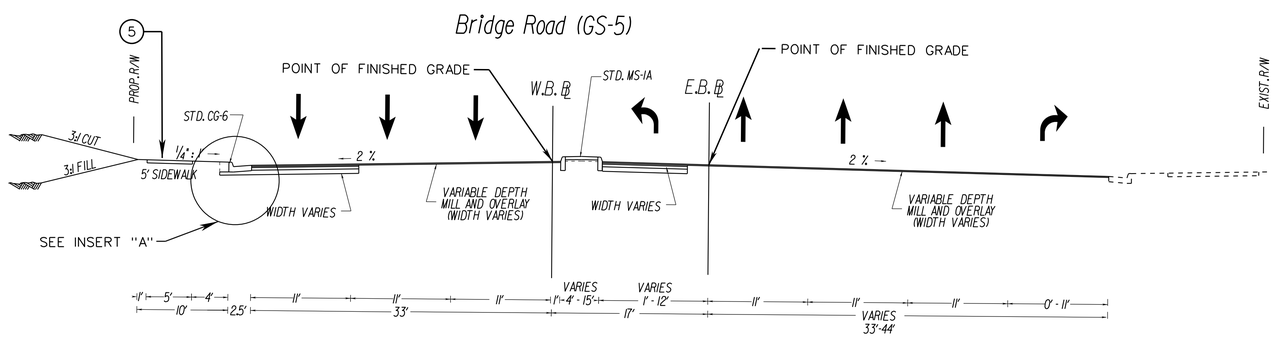


*PROP. 10' S/W FROM STA. 205+00 TO 208+18.75 (TIE-IN TO EXIST. S/W)

STA.105+00.00 TO STA.109+50.00

STA.205+00.00 TO STA.209+50.00

**BRIDGE ROAD WB BASELINE OFFSET 12' FROM FACE OF CURB THROUGH TURN LANE. TRANSITIONS BACK TO 1' OFFSET ADJACENT TO CURB AND GUTTER THROUGH TAPER.

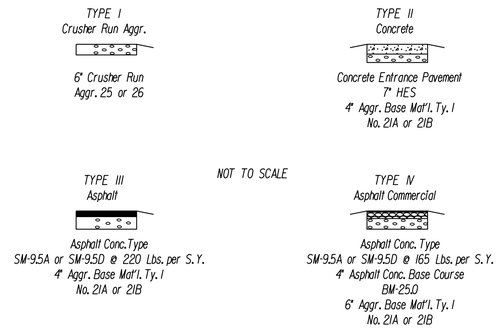


STA.109+50.00 TO STA.112+50.00

STA.209+50.00 TO STA.212+50.00

**BRIDGE ROAD EB BASELINE OFFSET 12' FROM FACE OF CURB THROUGH TURN LANE. TRANSITIONS BACK TO 1' OFFSET ADJACENT TO CURB AND GUTTER THROUGH TAPER.

PRIVATE AND COMMERCIAL ENTRANCES



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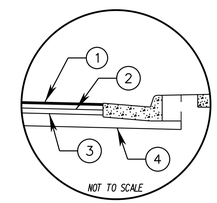

PAVEMENT LEGEND (BRIDGE ROAD)

1. 1.5" ASPHALT SURFACE COURSE TYPE SM-9.5D
2. 2.0" ASPHALT INTERMEDIATE COURSE TYPE IM-19.0A
3. 4.0" ASPHALT BASE COURSE TYPE BM-25.0A
4. 12.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 TYPICAL SECTIONS	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 2A(1)

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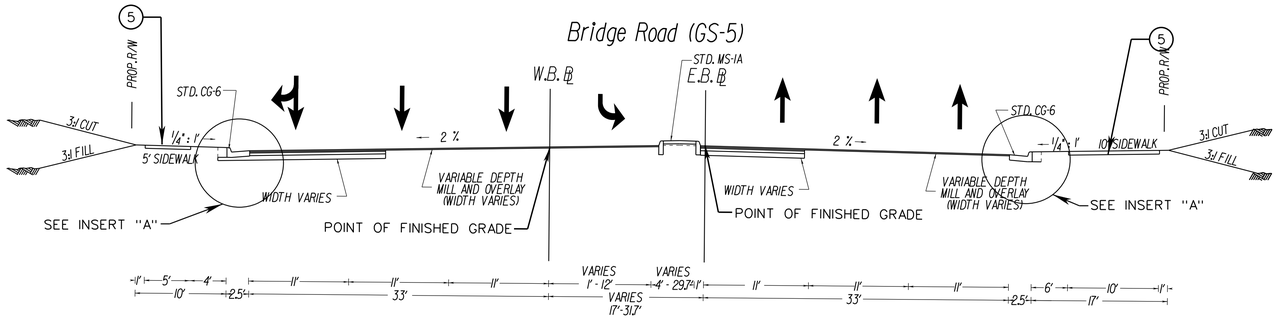
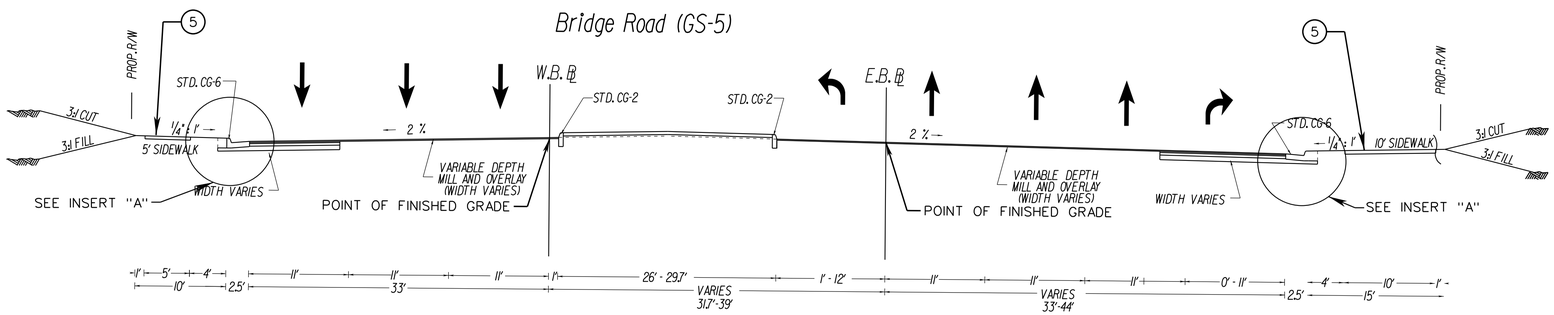
TYPICAL SECTIONS



STA. 112+50.00 TO STA. 117+25.38

STA. 213+09.60 TO STA. 217+72.29

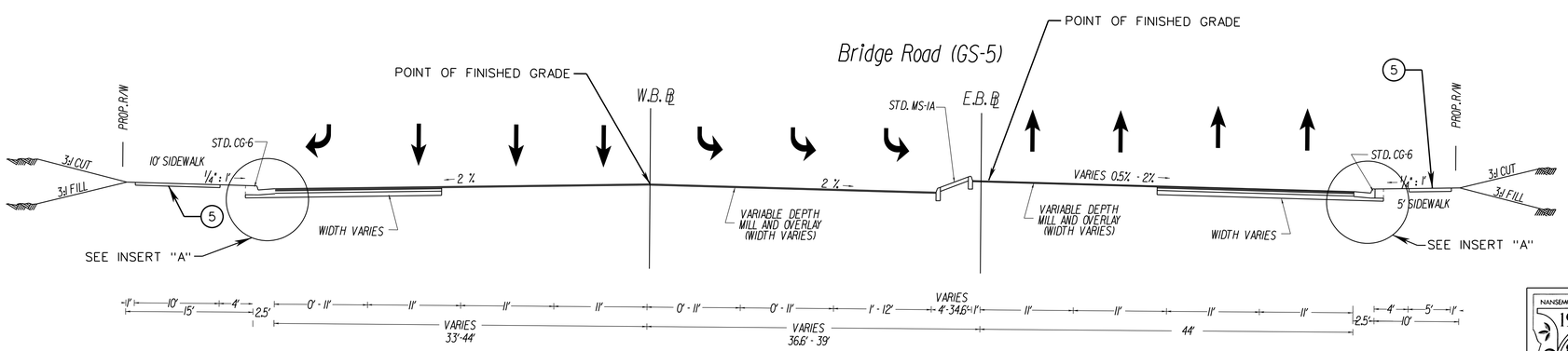
**BRIDGE ROAD WB BASELINE OFFSET 12' FROM FACE OF CURB THROUGH TURN LANE. TRANSITIONS BACK TO 1' OFFSET ADJACENT TO CURB AND GUTTER THROUGH TAPER.



STA. 117+25.38 TO STA. 120+45.22

STA. 217+72.29 TO STA. 220+45.22

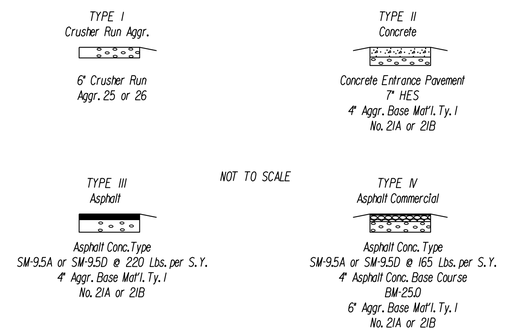
**BRIDGE ROAD EB BASELINE OFFSET 12' FROM FACE OF CURB THROUGH TURN LANE. TRANSITIONS BACK TO 1' OFFSET ADJACENT TO CURB AND GUTTER THROUGH TAPER.



STA. 122+49.73 TO STA. 128+50.38

STA. 222+49.73 TO STA. 228+50.38

PRIVATE AND COMMERCIAL ENTRANCES



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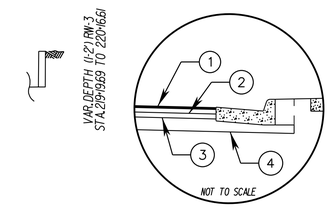

PAVEMENT LEGEND (BRIDGE ROAD)

1. 1.5" ASPHALT SURFACE COURSE TYPE SM-9.5D
2. 2.0" ASPHALT INTERMEDIATE COURSE TYPE IM-19.0A
3. 4.0" ASPHALT BASE COURSE TYPE BM-25.0A
4. 12.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

NANSEMOND 1646 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 TYPICAL SECTIONS		
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 2A(2)

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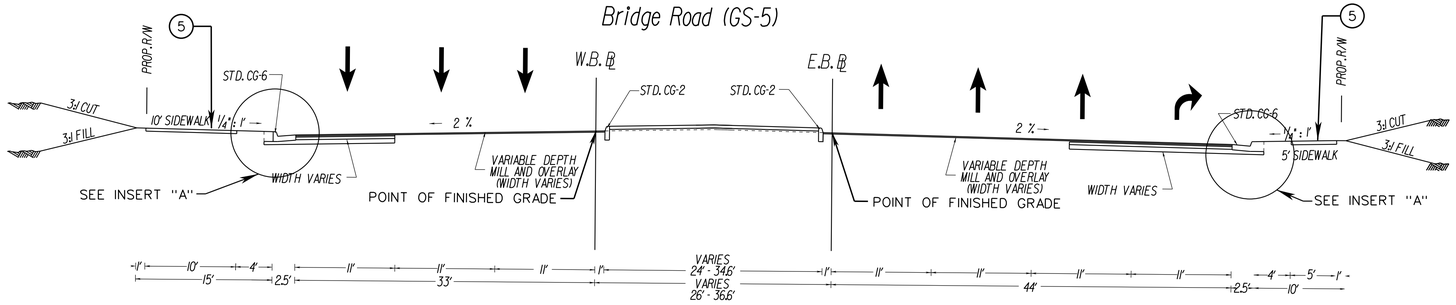
TYPICAL SECTIONS

Bridge Road (GS-5)

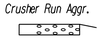


STA. 128+50.38 TO STA. 133+00.00

STA. 228+50.38 TO STA. 238+31.82

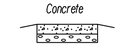
PRIVATE AND COMMERCIAL ENTRANCES

TYPE I
Crusher Run Aggr.



6" Crusher Run
Aggr. 25 or 26

TYPE II
Concrete



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

NOT TO SCALE

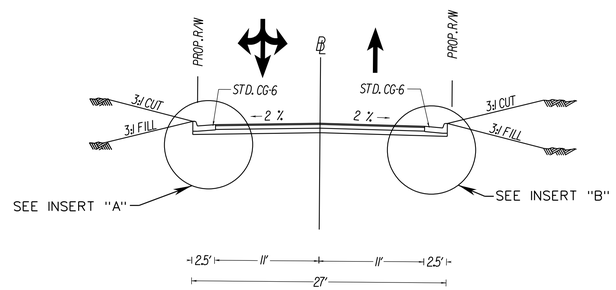
TYPE III
Asphalt

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

TYPE IV
Asphalt Commercial

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

Knotts Neck Road (GS-6)



STA. 520+50.00 TO STA. 523+75.00

PAVEMENT LEGEND (BRIDGE ROAD)

1. 1.5" ASPHALT SURFACE COURSE TYPE SM-9.5D
2. 2.0" ASPHALT INTERMEDIATE COURSE TYPE IM-19.0A
3. 4.0" ASPHALT BASE COURSE TYPE BM-25.0A
4. 12.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

PAVEMENT LEGEND (KNOTTS NECK)

1. 1.0" ASPHALT SURFACE COURSE TYPE SM-9.5D
2. 3.0" ASPHALT BASE COURSE TYPE BM-25.0A
3. 9.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A

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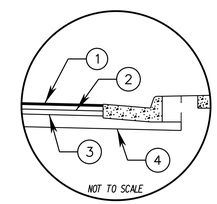
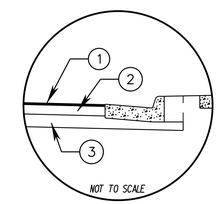
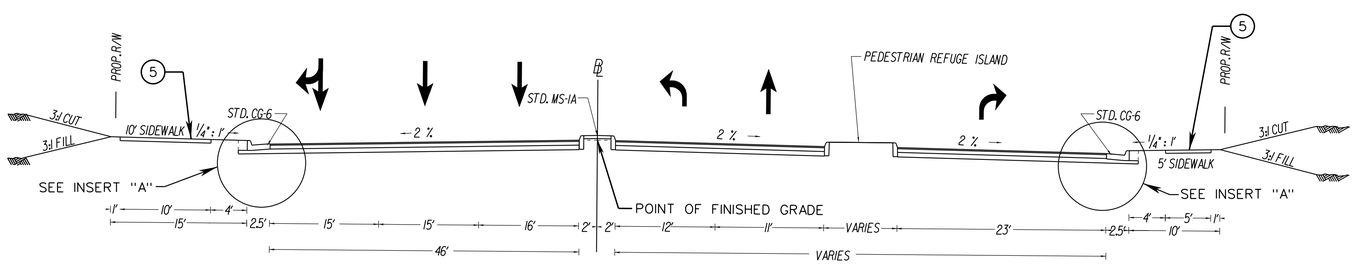


INSERT B



Shoulders Hill Road (GS-6)



STA. 518+39.83 TO STA. 519+00.00

PAVEMENT LEGEND (SHOULDERS HILL ROAD)

1. 1.0" ASPHALT SURFACE COURSE TYPE SM-9.5D
2. 2.0" ASPHALT INTERMEDIATE COURSE TYPE IM-19.0A
3. 3.0" ASPHALT BASE COURSE TYPE BM-25.0A
4. 10.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 TYPICAL SECTIONS	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19 DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 2A(3)

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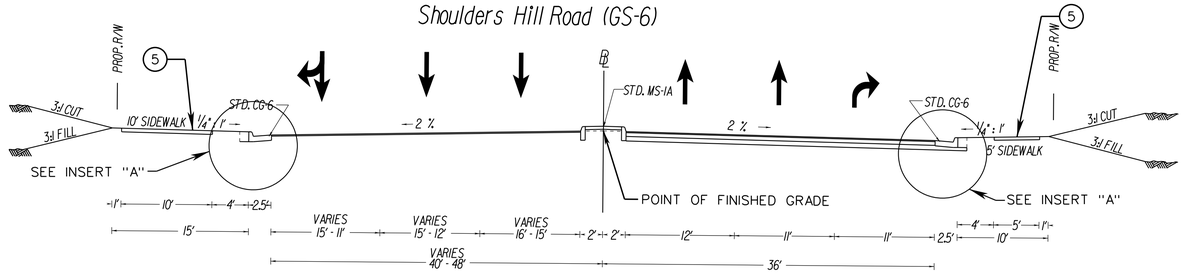
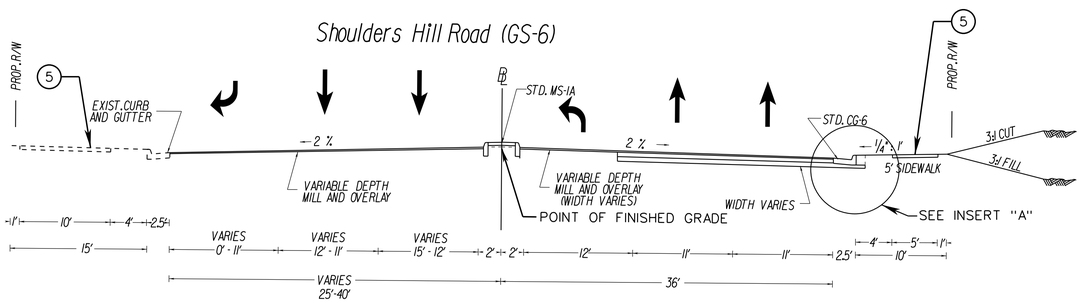
TYPICAL SECTIONS

Shoulders Hill Road (GS-6)



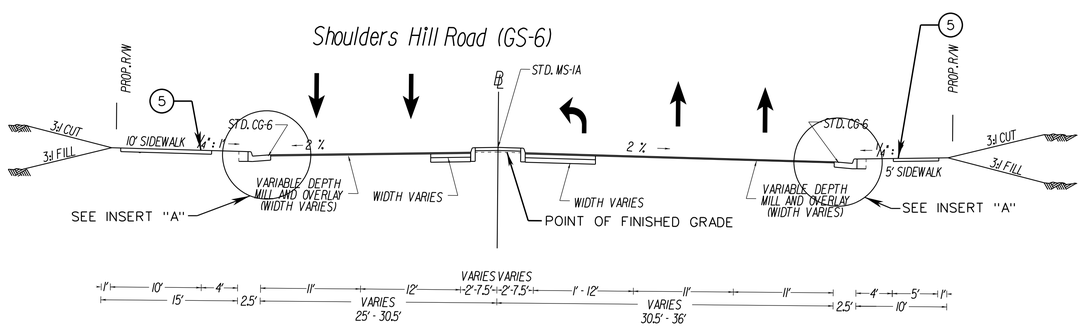
STA. 517+00.00 TO STA. 518+39.83

Shoulders Hill Road (GS-6)



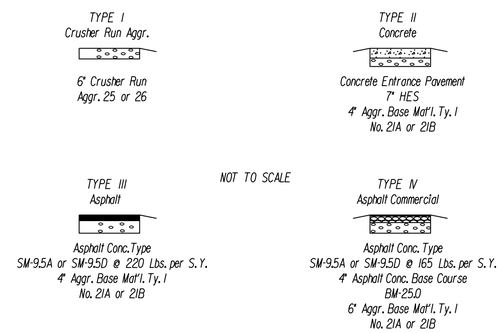
STA. 514+25.00 TO STA. 517+00.00

Shoulders Hill Road (GS-6)



STA. 510+26.08 TO STA. 514+25.00

PRIVATE AND COMMERCIAL ENTRANCES



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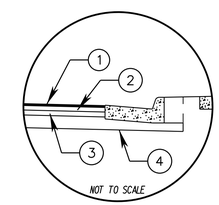

PAVEMENT LEGEND (SHOULDERS HILL ROAD)

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2. 2.0" ASPHALT INTERMEDIATE COURSE TYPE IM-19.0A
3. 3.0" ASPHALT BASE COURSE TYPE BM-25.0A
4. 10.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 TYPICAL SECTIONS		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
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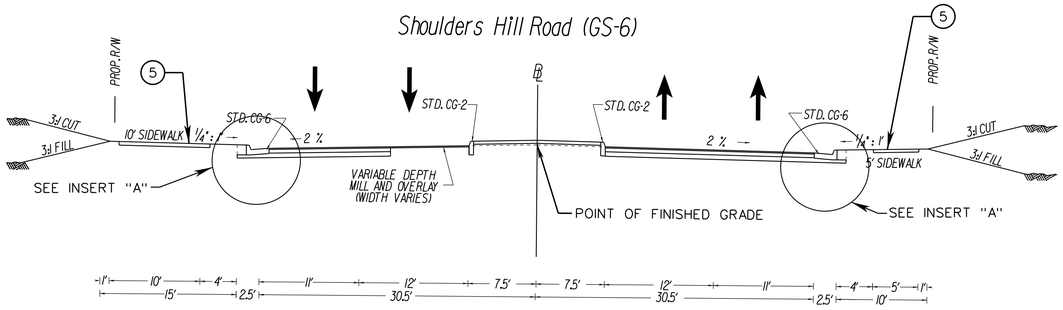
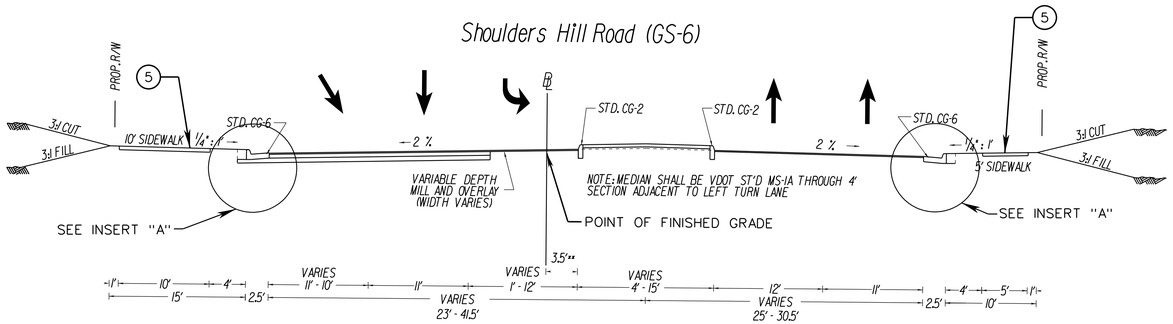
TYPICAL SECTIONS

Shoulders Hill Road (GS-6)



STA. 506+13.91 TO STA. 510+26.08

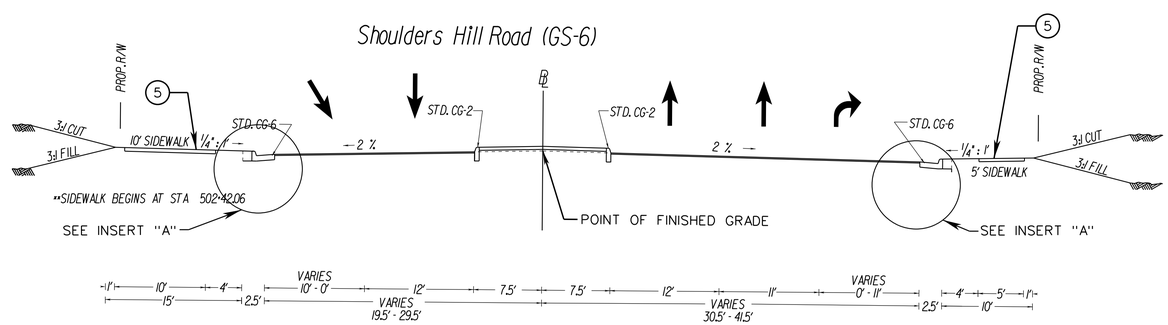
Shoulders Hill Road (GS-6)



STA. 503+75 TO STA. 506+13.91

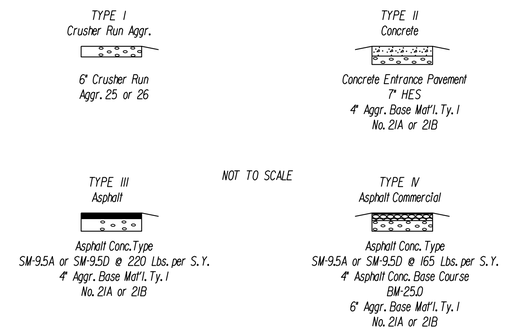
**SHOULDERS HILL BASELINE OFFSET 3.5' FROM FACE OF CURB THROUGH TURN LANE. TRANSITIONS BACK TO CENTER OF MEDIAN THROUGH TURN LANE TAPER.

Shoulders Hill Road (GS-6)

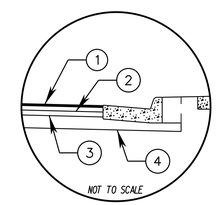


STA. 500+91.06 TO STA. 503+75.00

PRIVATE AND COMMERCIAL ENTRANCES



INSERT A



(*) PAVEMENT LEGEND (SHOULDERS HILL ROAD)

1. 1.0" ASPHALT SURFACE COURSE TYPE SM-9.5D
2. 2.0" ASPHALT INTERMEDIATE COURSE TYPE IM-19.0A
3. 3.0" ASPHALT BASE COURSE TYPE BM-25.0A
4. 10.0" AGGREGATE BASE MATERIAL, TYPE 1 NO. 21B OR 21A
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 TYPICAL SECTIONS	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19 DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 2A(5)

3:56:57 PM
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DEMOLITION OF BUILDING SHEET

DEMOLITION OF BUILDINGS / CLEARING OF PARCEL / CLOSING WELL / UNDERGROUND STORAGE TANK REMOVAL SUMMARY

PLAN SHEET	PARCEL NUMBER	DEMOLITION NUMBER	STATION RT. OR LT. & ROADWAY	LANDOWNER	DESCRIPTION	INCLUDED IN CONTRACT					ITEMS TO BE REMOVED BY OTHERS
						DEMO OF BUILDING	CLEARING OF PARCEL	CLOSING WELL	UNDERGROUND STORAGE TANK REMOVAL TYPE D	SIGN	
						LUMP SUM	LUMP SUM	LUMP SUM	EACH	EACH	
6	026	D 1	STA 517+75.00, 210' RT SHOULDERS HILL ROAD	JOHN J. DODSON, INC.	GAS STATION		1				-
13	031	D 2	STA 508+30.00, 90' LT SHOULDERS HILL ROAD	FIRST STEP, INC.	TWO SILOS	1					-
13	031	D 3	STA 509+00.00, 40' LT SHOULDERS HILL ROAD	FIRST STEP, INC.	1-ST. MASONRY	1					-
13	031	D 4	STA 509+95.00, 60' LT SHOULDERS HILL ROAD	FIRST STEP, INC.	CONCRETE SLAB	1					-
13	031	D 5	STA 510+80.00, 60' LT SHOULDERS HILL ROAD	FIRST STEP, INC.	BRICK DISPLAY	1					-
13	032	D 6	STA 508+55.00, 50' RT SHOULDERS HILL ROAD	HIGH COTTON FOR NORTH SUFFOLK, LLC	1-ST. FRAME	1					-
13	032	D 7	STA 509+45.00, 45' RT SHOULDERS HILL ROAD	HIGH COTTON FOR NORTH SUFFOLK, LLC	TWO SILOS	1					-
6	026	D 8	STA 520+25.00, 75' RT SHOULDERS HILL ROAD	MLP PROPERTIES, LLC.	BUSINESS SIGN					1	
6	026	D 500	STA 517+75.00, 210' RT SHOULDERS HILL ROAD	JOHN J. DODSON, INC.	UNDERGROUND STORAGE TANK				1		
6	026	D 501	STA 517+75.00, 210' RT SHOULDERS HILL ROAD	JOHN J. DODSON, INC.	UNDERGROUND STORAGE TANK				1		
6	026	D 502	STA 517+75.00, 210' RT SHOULDERS HILL ROAD	JOHN J. DODSON, INC.	UNDERGROUND STORAGE TANK				1		
6	026	D 503	STA 517+75.00, 210' RT SHOULDERS HILL ROAD	JOHN J. DODSON, INC.	UNDERGROUND STORAGE TANK				1		
TOTALS						6	1		4		

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION OF BUILDING
SHEET

90%
PRELIMINARY
PLANS

NOT FOR
CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER
M. VELASQUEZ
DATE 5/10/19

DRAWN BY MSM
DESIGNED BY MSM
APPROVED BY WMP

SHEET NO. 2B

03:56 PM on May 10,2019
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SHEET 3

(3-1)
VDOT STD DI-3A REQ'D
RIM = 9.57' H = 4.12'
INV OUT 5.95

(3-1)-(3-2)
50' - 15" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 4.00 (IN), 4.35 (OUT)

(3-2)
VDOT STD DI-3C REQ'D
RIM = 9.48' L = 6' H = 4.28'
INV OUT 5.20

(3-2)-(3-3)
50' - 15" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 5.20 (IN), 4.95 (OUT)

(3-3)
VDOT STD DI-3B REQ'D
RIM = 9.65' L = 4' H = 4.80'
INV OUT 4.85

(3-3)-(3-4)
36' - 24" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 4.85 (IN), 4.75 (OUT)

(3-4)
VDOT STD MH-1 OR 2 REQ'D
RIM = 9.70' H = 4.95'
INV OUT 4.75

(3-4)-(3-5)
67' - 24" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 4.75 (IN), 4.50 (OUT)

(3-6)
VDOT STD DI-3B REQ'D
RIM = 9.52' L = 6' H = 4.79'
INV OUT 4.73

(3-6)-(3-5)
85' - 24" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 4.73 (IN), 4.50 (OUT)

(3-5)
VDOT STD DI-3C REQ'D
RIM = 9.49' L = 6' H = 5.49'
INV OUT 4.00

(3-5)-(3-5A)
50' - 30" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 4.00 (IN), 3.85 (OUT)

(3-5A)
VDOT STD DI-3B REQ'D
RIM = 9.76' L = 4' H = 5.91'
INV OUT 3.85

(3-5A)-(3-7)
21' - 30" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 3.85(IN), 3.75(OUT)

(3-7)
VDOT STD 30" ES-1 REQ'D
INV IN 3.75

(3-8)
30' - 15" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 4.50 (IN), 4.30 (OUT)

(3-9)
28' - 15" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 6.30 (IN), 6.10 (OUT)

SHEET 4

(4-5)
VDOT STD DI-2B REQ'D
RIM = 15.70' L = 6' H = 3.90'
INV OUT 11.80

(4-5)-(4-4)
7' - 15" RCP CLASS III REQ'D
SLOPE = 0.021 FT/FT
INV EL 11.80 (IN), 11.65 (OUT)

(4-4)
VDOT STD MH-1 OR 2 REQ'D
RIM = 15.31' H = 3.66'
INV OUT 11.65

(4-4)-(4-3)
270' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 11.65 (IN), 8.90 (OUT)

(4-3)
VDOT STD MH-1 OR 2 REQ'D
RIM = 11.95' H = 3.15'
INV OUT 8.80

(4-3)-(4-2)
7' - 15" RCP CLASS III REQ'D
SLOPE = 0.050 FT/FT
INV EL 8.80 (IN), 8.45 (OUT)

(4-2)
VDOT STD DI-2B REQ'D
RIM = 12.34' L = 8' H = 4.14'
INV OUT 8.20

(4-2)-(4-1)
171' - 18" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 8.20 (IN), 702 (OUT)

(4-1)
VDOT STD DI-3B REQ'D
RIM = 10.58' L = 4' H = 3.56'
INV OUT 7.02

(4-1)-(3-3)
171' - 18" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 7.02 (IN), 5.85 (OUT)

(4-7A)
EXISTING STRUCTURE
RIM = 13.96' H = 2.95'
INV OUT 11.01

(4-7A)-(4-7)
10' - 15" RCP CLASS III REQ'D
SLOPE = 0.020 FT/FT
INV EL 11.00 (IN), 10.80 (OUT)

(4-7)
VDOT STD MH-1 OR 2 REQ'D
RIM = 13.88' H = 3.18'
INV OUT 10.70

(4-7)-(4-6A)
236' - 15' RCP CLASS III REQ'D
SLOPE = 0.014 FT/FT
INV EL 10.70 (IN), 7.40 (OUT)

(4-6)
MODIFY DROP INLET
(VDOT STD T-DI-3B REQ'D)
RIM = 11.51' L = 6' H = 2.87'
INV OUT 8.64

(4-6A)
EXISTING STRUCTURE
RIM = 10.50' H = 3.92'
INV OUT 7.40

(4-8)
VDOT STD DI-2B REQ'D
RIM = 18.50' L = 6', H = 3.92'
INV OUT 14.58

(4-8)-(4-9)
7' - 15" RCP CLASS III RCP REQ'D
SLOPE = 0.004 FT/FT
INV EL 14.58 (IN), 14.55 (OUT)

(4-9)
VDOT STD MH-1 OR 2 REQ'D
RIM = 18.11' H = 3.56'
INV OUT 14.55

(4-9)-(5-2)
165' - 15" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 14.55 (IN), 13.70 (OUT)

SHEET 5

(5-1A)
VDOT STD DI-5, GRATE TY. A III REQ'D
RIM = 20.50' H = 3.00'
INV OUT 17.50

(5-1A)-(5-1)
15' - 15" RCP CLASS III REQ'D
SLOPE = 0.060 FT/FT
INV EL 17.50 (IN), 16.60 (OUT)

(5-1)
VDOT STD DI-2B REQ'D
RIM = 20.51' L = 8' H = 4.01'
INV OUT 16.50

(5-1)-(5-2)
7' - 15" RCP CLASS III REQ'D
SLOPE = 0.029 FT/FT
INV EL 16.50 (IN), 16.30 (OUT)

(5-2)
VDOT STD MH-1 OR 2 REQ'D
RIM = 20.12' H = 7.52'
INV OUT 12.60

(5-2)-(5-3)
82' - 23" x 14" ELLIPTICAL RCP
CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 12.60 (IN), 12.30 (OUT)

(5-3A)
YARD INLET REQ'D RIM = 20.90'
H = 2.00' INV OUT 18.90

(5-3A)-(5-3)
22'-12" HDPE PIPE
SLOPE = 0.018 FT/FT
INV EL 18.90 (IN), 18.50 (OUT)

(5-3)
VDOT STD DI-3B REQ'D
RIM = 21.63' L = 6' H = 10.13'
INV OUT 11.50

(5-3)-(5-4)
187' - 24" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 11.50 (IN), 10.85 (OUT)

(5-4)
VDOT STD DI-3A REQ'D
RIM = 23.11' H = 12.26'
INV OUT 10.85

(5-4)-(5-5)
250' - 24" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 10.85 (IN), 10.10 (OUT)

(5-5)
VDOT STD DI-3B REQ'D
RIM = 22.88' L = 4' H = 12.78'
INV EL 10.10

(5-5)-(6-3)
268' - 24" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 10.10 (IN), 9.30 (OUT)

(5-6)
VDOT STD DI-2B REQ'D
RIM = 22.60' L = 4' H = 3.95'
INV OUT 18.65

(5-6)-(5-7)
7' - 15" RCP CLASS III REQ'D
SLOPE = 0.036 FT/FT
INV EL 18.65 (IN), 18.40 (OUT)

(5-7)
VDOT STD MH-1 OR 2 REQ'D
RIM = 22.2 H = 3.81'
INV OUT 18.40

(5-7)-(6-2)
178' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 18.40 (IN), 16.60 (OUT)

SHEET 6

(6-1)
VDOT STD DI-2B REQ'D
RIM = 20.15' L = 6' H = 3.95'
INV OUT 16.20

(6-1)-(6-2)
7' - 15" RCP CLASS III REQ'D
SLOPE = 0.014 FT/FT
INV EL 16.20 (IN), 16.10 (OUT)

(6-2)
VDOT STD MH-1 OR 2 REQ'D
RIM = 19.77' H = 3.92'
INV OUT 15.85

(6-2)-(6-3)
114' - 18" RCP CLASS III REQ'D
SLOPE = 0.003 FT/FT
INV EL 15.85 (IN), 15.50 (OUT)

(6-3)
VDOT STD DI-2B REQ'D
RIM = 19.66' L = 8' H = 10.86'
INV OUT 8.80

(6-3)-(6-3A)
50' - 30" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 8.80 (IN), 8.60 (OUT)

(6-3A)
VDOT STD MH-1 OR 2 REQ'D
RIM = 19.77' H = 11.17'
INV OUT 8.60

(6-3A)-(6-6)
60' - 30" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 8.60 (IN), 8.35 (OUT)

(6-6)
VDOT STD DI-3B REQ'D
RIM = 18.98' L = 6' H = 10.63'
INV OUT 8.35'

(6-5A)
VDOT STD DI-3B REQ'D
RIM = 19.38' L = 6' H = 6.88'
INV OUT 12.50

(6-5A)-(6-5)
37' - 15" RCP CLASS III REQ'D
SLOPE = 0.011 FT/FT
INV EL 12.50 (IN), 12.10 (OUT)

(6-5)
VDOT STD DI-3B REQ'D
RIM = 19.10' L = 6' H = 7.10'
INV OUT 12.00

(6-5)-(6-6)
36' - 15" RCP CLASS III REQ'D
SLOPE = 0.014 FT/FT
INV EL 12.00 (IN), 11.50 (OUT)

(6-6)-(6-7)
31' - 30" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 8.35 (IN), 8.20 (OUT)

(6-4)
VDOT STD DI-3B REQ'D
RIM = 18.46' L = 6' H = 8.51'
INV OUT 9.95

(6-4)-(6-7)
28' - 15" RCP CLASS III REQ'D
SLOPE = 0.018 FT/FT
INV EL 9.95 (IN), 9.45 (OUT)

(6-7)
VDOT STD DI-3C REQ'D
RIM = 18.40' L = 6' H = 10.20'
INV OUT 8.20

(6-7)-(6-8)
38' - 30" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 8.20 (IN), 8.05 (OUT)

(6-8)
VDOT STD DI-3B REQ'D
RIM = 17.36' L = 4' H = 9.31'
INV OUT 8.05

(6-8)-(6-9)
98' - 30" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 8.05 (IN), 7.60 (OUT)

(6-9)
VDOT STD 30" ES-1 REQ'D
INV IN 7.60

(6-10)
VDOT STD ES-1 REQ'D
INV IN 9.00

(6-11)
VDOT STD DI-3C REQ'D
RIM = 19.15' L = 6' H = 4.75'
INV OUT 14.40

(6-11)-(6-12)
73' - 15" RCP CLASS III REQ'D
SLOPE = 0.011 FT/FT
INV EL 14.40 (IN), 13.60 (OUT)

(6-12)
VDOT STD DI-3A REQ'D
RIM = 18.57' H = 5.07'
INV OUT 13.50'

(6-12)-(6-13)
111' - 15" RCP CLASS III REQ'D
SLOPE = 0.038 FT/FT
INV EL 13.50 (IN), 9.25 (OUT)

(6-13)
VDOT STD DI-3B REQ'D
RIM = 16.16' L = 8' H = 6.91'
INV OUT 9.25

(6-13)-(6-14)
266' - 15" RCP CLASS III REQ'D
SLOPE = 0.011 FT/FT
INV EL 9.25 (IN), 6.25 (OUT)

(6-14)
VDOT STD DI-3B REQ'D
RIM = 10.47' L = 6' H = 4.47"
INV OUT 6.00

(6-14)-(6-15)
52' - 18" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 6.00 (IN), 5.50 (OUT)

(6-15)
VDOT STD DI-3C REQ'D
RIM = 10.37' L = 6' H = 4.97'
INV OUT 5.40

(6-15)-(7-6)
52' - 18" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 5.40 (IN), 4.90 (OUT)

(6-16)
VDOT STD DI-3B REQ'D
RIM = 14.17' L = 8' H = 4.17'
INV OUT 10.00'

(6-16)-(6-17)
51' - 15" RCP CLASS III REQ'D
SLOPE = 0.008 FT/FT
INV EL 10.00 (IN), 9.60 (OUT)

(6-17)
VDOT STD DI-3B REQ'D
RIM = 14.37' L = 6' H = 4.77'
INV OUT 9.60

(6-17)-(6-18)
56' - 15" RCP CLASS III REQ'D
SLOPE = 0.011 FT/FT
INV EL 9.60 (IN), 9.00 (OUT)

(6-18)
VDOT STD 15" ES -1 REQ'D
INV IN 9.00

(6-19A)
VDOT STD DI-3B REQ'D
RIM = 11.38' L = 6' H = 4.08'
INV OUT 7.30

(6-19A)-(6-19)
78' - 15" RCP CLASS III REQ'D
SLOPE = 0.013 FT/FT
INV EL 7.30 (IN), 6.30 (OUT)

(6-19)
VDOT STD DI-3B REQ'D
RIM = 10.50' L = 8' H = 4.30'
INV OUT 6.20

(6-19)-(6-20)
52' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 6.20 (IN), 5.70 (OUT)

(6-20)
VDOT STD DI-3C REQ'D
RIM = 10.34' L = 6' H = 4.74'
INV OUT 5.60

(6-20)-(7-8)
52' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 5.60 (IN), 5.10 (OUT)

(6-21)
VDOT STD DI-3B REQ'D
RIM = 10.43' L = 4' H = 4.23'
INV OUT 6.20

(6-21)-(6-22)
50' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 6.20 (IN), 5.70 (OUT)

(6-22)
VDOT STD DI-3C REQ'D
RIM = 10.27' L = 6' H = 4.67'
INV OUT 5.60'

(6-22)-(7-10)
50' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 5.60 (IN), 5.10 (OUT)

(6-23)
VDOT STD SWM-1 REQ'D
RIM = 12.20' H = 6.20'
INV OUT 6.00

(6-23)-(6-24)
97' - 36" RCP CLASS III REQ'D
SLOPE = 0.031 FT/FT
INV EL 6.00 (IN), 3.00 (OUT)

(6-24)
VDOT STD 36" ES-1 REQ'D
INV IN 3.00

SHEET 7

(7-2)
VDOT STD JB-1 REQ'D
CONNECT TO EXIST. 48" CONC. PIPE
RIM = 11.19' H = 12.54'
INV OUT -1.35'

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

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DRAINAGE DESCRIPTIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 2D(1)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

03:56 PM on May 10,2019
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SHEET 7

7-2 - 7-1
40' - 48" RCP CLASS III REQ'D
SLOPE = 0.001 FT/FT
INV EL -1.35 (IN), -1.40 (OUT)

7-1
VDOT STD 48" EW-2 REQ'D
INV IN -1.40'

7-3
VDOT STD JB-1 REQ'D
RIM = 10.92' H = 12.52'
INV OUT -1.60

7-5
VDOT STD 48" EW-2 REQ'D
INV OUT -1.00

7-5 - 7-4
45' - 48" RCP CLASS III REQ'D
SLOPE = 0.018 FT/FT
INV EL -1.00 (IN), -1.82 (OUT)

7-4
VDOT STD 15" JB-1 REQ'D
CONNECT TO EXIST. 48" CONC. PIPE
RIM = 10.44' H = 12.31'
INV OUT -1.87

7-6
VDOT STD DI-3B REQ'D
RIM = 10.54' L = 4' H = 5.74'
INV OUT 4.80

7-6 - 7-2
63' - 18" RCP CLASS III REQ'D
SLOPE = 0.021 FT/FT
INV EL 4.80 (IN), 3.50 (OUT)

7-7
VDOT STD DI-3B REQ'D
RIM = 14.24' L = 6' H = 4.74'
INV OUT 9.50

7-7 - 7-2
199' - 15" RCP CLASS III REQ'D
SLOPE = 0.030 FT/FT
INV EL 9.50 (IN), 3.50 (OUT)

7-8
VDOT STD DI-3B REQ'D
RIM = 10.53' L = 6' H = 5.53'
INV OUT 5.00

7-8 - 7-3
63' - 15" RCP CLASS III REQ'D
SLOPE = 0.024 FT/FT
INV EL 5.00 (IN), 3.50 (OUT)

7-9
VDOT STD DI-7 REQ'D
RIM = 9.20' H = 4.00'
INV OUT 5.20

7-9 - 7-3
106' - 15" RCP CLASS III REQ'D
SLOPE = 0.016 FT/FT
INV EL 5.20 (IN), 3.50 (OUT)

7-10
VDOT STD DI-3B REQ'D
RIM = 10.43' L = 4' H = 5.43'
INV OUT 5.00

7-10 - 7-4
34' - 15" RCP CLASS III REQ'D
SLOPE = 0.015 FT/FT
INV EL 5.00 (IN), 4.50 (OUT)

7-11 - 7-4
147' - 24" RCP CLASS III REQ'D
SLOPE = 0.017 FT/FT
INV EL 7.00 (IN), 4.50 (OUT)

7-13
VDOT STD DI-3B REQ'D
RIM = 18.24' L = 4' H = 6.34'
INV OUT 11.40

7-13 - 7-12
234' - 24" RCP CLASS III REQ'D
SLOPE = 0.006 FT/FT
INV EL 11.40 (IN), 10.00 (OUT)

7-12
VDOT STD DI-3B REQ'D
RIM = 15.56' L = 6' H = 5.66'
INV OUT 9.90

7-12 - 7-11
250' - 24" RCP CLASS III REQ'D
SLOPE = 0.011 FT/FT
INV EL 9.90 (IN), 7.10 (OUT)

7-11
VDOT STD DI-3B REQ'D
RIM = 12.46' L = 6' H = 5.46'
INV OUT 7.00

7-11 - 7-4
147' - 24" RCP CLASS III REQ'D
SLOPE = 0.017 FT/FT
INV EL 7.00 (IN), 4.50 (OUT)

SHEET 8

8-4
VDOT DI-2B REQ'D
RIM = 20.71' H = 4.51'
INV OUT 16.20

8-4 - 8-3
88' - 15" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 16.20 (IN), 15.75 (OUT)

8-3
VDOT STD DI-3A REQ'D
RIM = 20.28' H = 4.78'
INV OUT 15.50

8-3 - 8-2
158' - 18" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 15.50 (IN), 14.70 (OUT)

8-2
VDOT STD DI-3B REQ'D
RIM = 19.81' L = 4' H = 5.21'
INV OUT 14.60

8-2 - 8-1
177' - 18" RCP CLASS III REQ'D
SLOPE = 0.006 FT/FT
INV EL 14.60 (IN), 13.60 (OUT)

8-1
VDOT STD DI-3B REQ'D
RIM = 19.51' L = 4' H = 6.01'
INV OUT 13.50

8-1 - 8-1A
148' - 18" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 13.50 (IN), 12.70 (OUT)

8-1A
VDOT STD DI-3A REQ'D
RIM = 18.80' H = 6.70'
INV OUT 12.10

8-5
VDOT MOD DI-7B REQ'D
RIM = 18.00' H = 4.50'
INV OUT 13.50

8-5 - 8-1A
62' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 13.50 (IN), 12.85 (OUT)

8-1A - 7-13
112' - 24" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 12.10 (IN), 11.50 (OUT)

SHEET 9

9-2
VDOT STD DI-1 REQ'D
RIM = 20.15' H = 1.65'
INV OUT 18.50

9-2 - 9-1
14' - 15" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 18.50 (IN), 18.40 (OUT)

9-1
MODIFY DROP INLET (VDOT STD
T-MH-2 REQ'D) RIM = 21.30'
H = 2.90' INV OUT 18.40

SHEET 10

10-3
VDOT STD 15" EW-1
REQ'D INV IN 19.50'

10-3 - 10-2
19' - 18" RCP CLASS III REQ'D
SLOPE = 0.026 FT/FT
INV EL 19.50 (IN), 19.00 (OUT)

10-2
VDOT STD DI-3B REQ'D
RIM = 22.36' H = 3.46'
INV OUT 18.90

10-2 - 10-1
8' - 18" RCP CLASS III REQ'D
SLOPE = 0.013 FT/FT
INV EL 18.90 (IN), 18.80 (OUT)

10-1
VDOT STD MH-1 OR 2 REQ'D
RIM = 22.08' H = 3.30'
INV OUT 18.78

SHEET 11

11-1
CONC. WEIR REQ'D
RIM = 17.00' L = 22'
INV OUT 15.50

SHEET 12

12-1
VDOT STD DI-3A REQ'D
RIM = 16.60' H = 5.55'
INV OUT 11.05

12-1 - 12-2
72' - 24" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 11.05 (IN), 10.75 (OUT)

12-2
VDOT STD DI-3A REQ'D
RIM = 15.78' H = 5.38'
INV OUT 10.40

12-3
VDOT STD DI-3A REQ'D
RIM = 16.08' H = 3.98'
INV OUT 12.10

12-3 - 12-4
168' - 15" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 12.10 (IN), 11.45 (OUT)

12-4
VDOT STD DI-3A REQ'D
RIM = 15.57' H = 3.22'
INV OUT 11.35

12-4 - 12-5
14' - 15" RCP CLASS III REQ'D
SLOPE = 0.014 FT/FT
INV EL 11.35 (IN), 11.15 (OUT)

12-5
VDOT STD DI-3C REQ'D
RIM = 15.07' L = 6' H = 3.92'
INV OUT 11.15

12-5 - 13-1
48' - 15" RCP CLASS III REQ'D
SLOPE = 0.004 FT/FT
INV EL 11.15 (IN), 10.95 (OUT)

12-6
VDOT STD DI-3C REQ'D
RIM = 15.29' L = 6' H = 3.99'
INV OUT 11.30

12-6 - 12-7
10' - 15" RCP CLASS III REQ'D
SLOPE = 0.015 FT/FT
INV EL 11.30 (IN), 11.15 (OUT)

12-7
VDOT STD MH-1 OR 2 REQ'D
RIM = 15.40' H = 5.01'
INV OUT 10.39

12-8
EXISTING STRUCTURE
RIM = 14.50' H = 4.24'
INV OUT 10.26

SHEET 13

13-1
VDOT STD DI-3A REQ'D
RIM = 15.20' H = 4.20'
INV OUT 11.00

13-1 - 13-5A
18' - 18" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 11.00 (IN), 10.91 (OUT)

13-5A
VDOT STD MH-1 OR 2 TOP REQ'D
RIM = 14.98' H = 4.07'
INV OUT 10.91

13-5
VDOT STD DI-3A TOP REQ'D
RIM = 15.41' H = 4.57'
INV OUT 10.84

13-4
ADJUST VDOT STD DI-3A TOP
RIM = 15.34 H = 4.90'
INV OUT 10.44

13-2
VDOT STD DI-3B REQ'D
RIM = 16.59' L = 4' H = 3.99'
INV OUT = 12.60

13-2 - 13-3
84' - 15" RCP CLASS III REQ'D
SLOPE = 0.011
INV EL 12.60 (IN), 11.70 (OUT)

13-3
VDOT STD DI-3B REQ'D
RIM = 17.49 L = 6' H = 5.89'
INV OUT 11.60

13-3 - 13-7
77' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 11.60 (IN), 10.90 (OUT)

13-6
VDOT STD DI-3B REQ'D
RIM = 16.59' H = 3.99'
INV OUT 12.60

13-6 - 13-7
92' - 15" RCP CLASS III REQ'D
SLOPE = 0.018 FT/FT
INV EL 12.60 (IN), 10.90 (OUT)

13-7
VDOT STD DI-3A REQ'D
RIM = 17.49 H = 6.69'
INV OUT 10.80

13-7 - 13-8
129' - 15" RCP CLASS III REQ'D
SLOPE = 0.009 FT/FT
INV EL 10.80 (IN), 9.70 (OUT)

13-8
VDOT STD DI-3B REQ'D
RIM = 18.77 L = 4' H = 9.17'
INV OUT 9.60

13-8 - 13-9
70' - 18" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 9.60 (IN), 9.10 (OUT)

13-9
VDOT STD MH-1 OR 2 REQ'D
RIM = 12.70' H = 7.50'
INV OUT = 5.20

13-9 - 13-10
43' - 18" RCP CLASS III REQ'D
SLOPE = 0.005
INV EL 5.20 (IN), 5.00 (OUT)

13-10
VDOT STD 18" ES-1 REQ'D
INV IN 5.00

SHEET 14

14-1
VDOT STD DI-2B REQ'D
RIM = 18.49' L = 6' H = 4.49'
INV OUT 14.00

14-1 - 14-2
14' - 15" RCP CLASS III REQ'D
SLOPE = 0.014 FT/FT
INV EL 14.00 (IN), 13.80 (OUT)

14-2
MODIFY DROP INLET
(VDOT STD T-MH-2 REQ'D)
RIM = 17.89' H = 4.25'
INV OUT 13.64

14-2A
VDOT STD DI-1 REQ'D
RIM = 17.38' H = 2.94
INV OUT 14.44

14-3A
VDOT STD MH-1 OR 2 TOP REQ'D
RIM = 18.00' H = 5.25'
INV OUT 12.75

14-3A - 14-3
21' - 15" RCP CLASS III REQ'D
SLOPE = 0.019 FT/FT
INV EL 12.75 (IN), 12.35 (OUT)

14-3
VDOT STD DI-3B REQ'D
RIM = 18.16' L = 4' H = 6.06'
INV OUT 12.10

14-3 - 14-4
67' - 24" RCP CLASS III REQ'D
SLOPE = 0.006 FT/FT
INV EL 11.60 (IN), 11.20 (OUT)

14-4
VDOT STD DI-3C REQ'D
RIM = 17.90' L = 6' H = 6.70'
INV OUT 11.20

14-4 - 14-5
50' - 24" RCP CLASS III REQ'D
SLOPE = 0.006 FT/FT
INV EL 11.20 (IN), 10.90 (OUT)

14-5
VDOT STD DI-3B REQ'D
RIM = 18.04' L = 4' H = 7.14'
INV OUT 10.90

14-5 - 14-6
259' - 24" RCP CLASS III REQ'D
SLOPE = 0.005 FT/FT
INV EL 10.90 (IN), 9.65 (OUT)

14-6
VDOT STD DI-3B REQ'D
RIM = 18.90' L = 4' H = 9.25'
INV OUT 9.65

14-6 - 6-10
96' - 24" RCP CLASS III REQ'D
SLOPE = 0.007 FT/FT
INV EL 9.65 (IN), 9.00 (OUT)

14-7
YARD INLET REQ'D
RIM = 18.20' H = 2.00'
INV OUT 16.20

14-7 - 14-8
20' - 12" HDPE PIPE REQ'D
SLOPE = 0.010 FT/FT
INV EL 16.20 (IN), 16.00 (OUT)

14-8
EXISTING STRUCTURE
RIM = 18.53' H = 4.10'
INV OUT 14.43

SHEET 15

15-1
VDOT STD DI-3A REQ'D
RIM = 19.55' H = 4.05'
INV OUT 15.50

15-1 - 15-2
34' - 15" RCP CLASS III REQ'D
SLOPE = 0.012 FT/FT
INV EL 15.50 (IN), 15.10 (OUT)

15-2
VDOT STD DI-3A REQ'D
RIM = 19.40' H = 4.40'
INV OUT 15.00

15-2 - 6-11
50' - 15" RCP CLASS III REQ'D
SLOPE = 0.010 FT/FT
INV EL 15.00 (IN), 14.50 (OUT)

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NOTES:
1. ALL MANHOLES SHALL INCLUDE VDOT STANDARD MH-1 FRAME AND COVER.
2. ALL STRUCTURES SHALL HAVE VDOT STANDARD IS-1, INLET SHAPING.
3. ALL STRUCTURES WITH A DEPTH OF 4 FT OR MORE SHALL HAVE VDOT STANDARD ST-1, STANDARD STEP.

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DRAINAGE DESCRIPTIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 2D(2)

03:57 PM on May 10,2019
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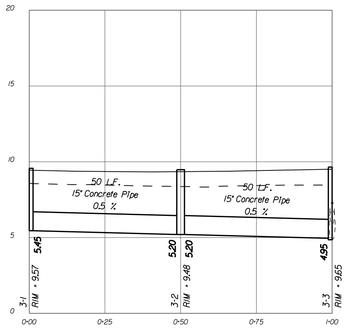

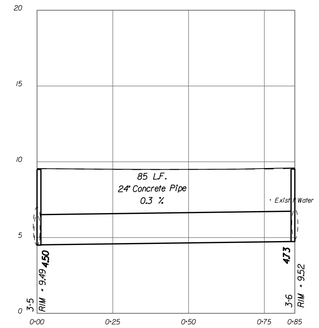

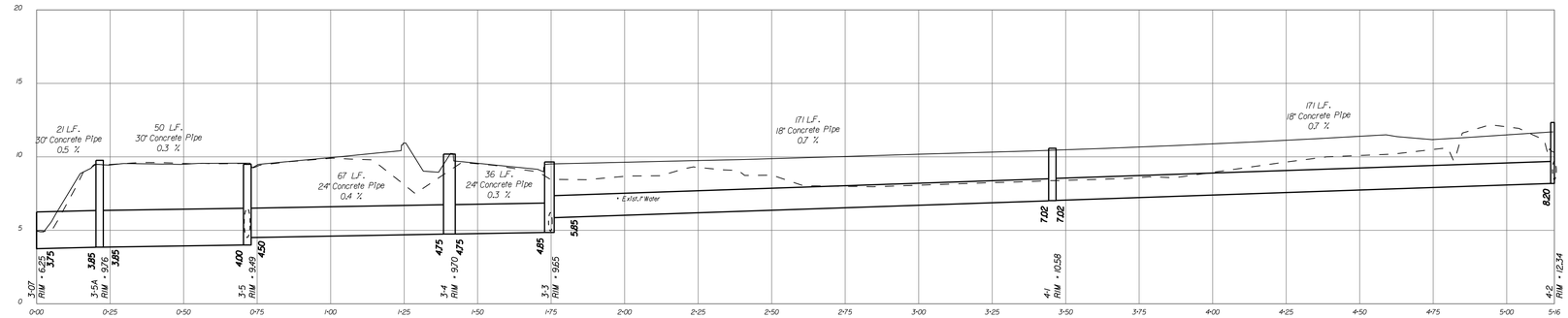

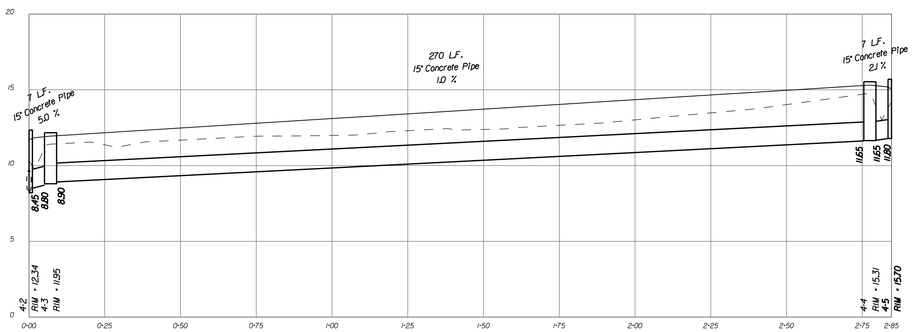

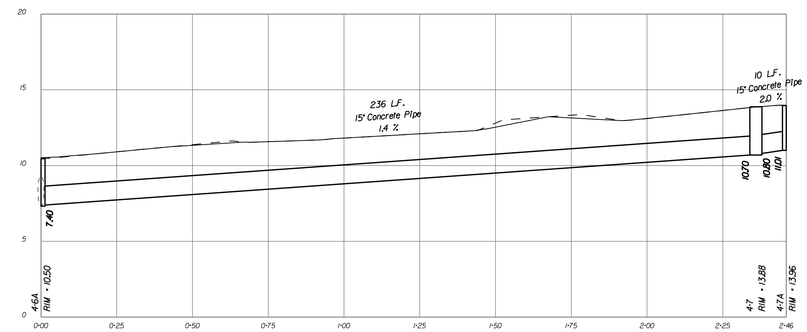

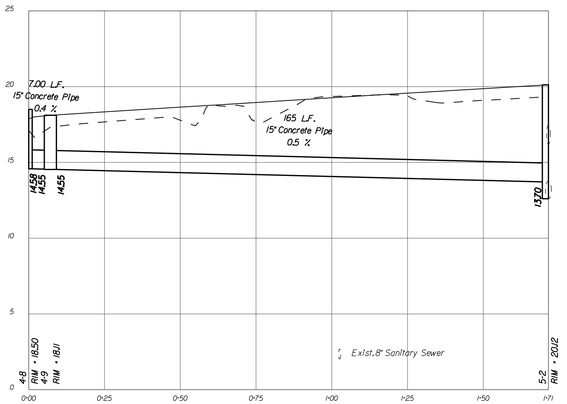

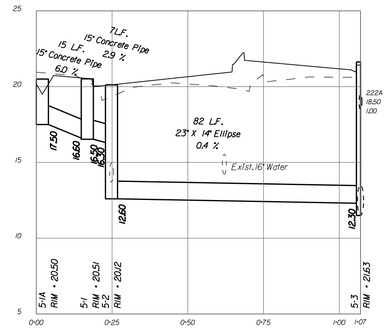

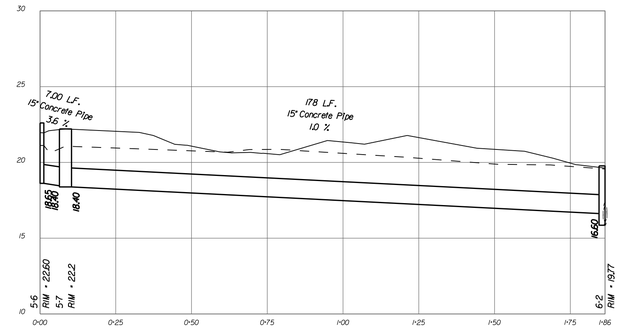

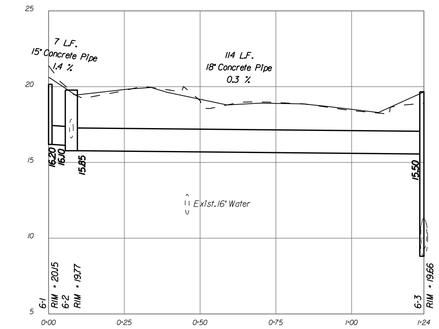

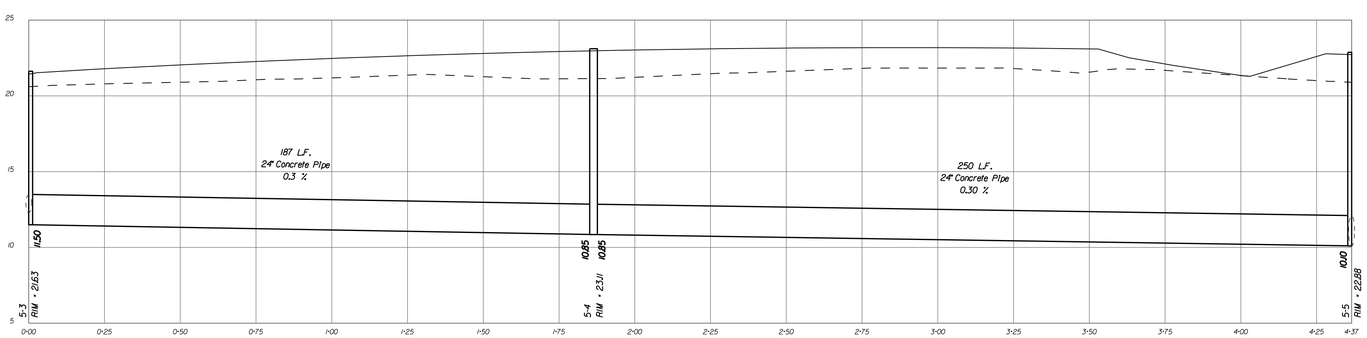

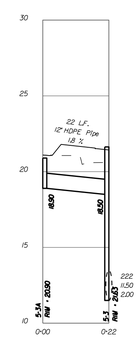

VERTICAL: SCALE 0 5' 10'

HORIZONTAL: SCALE 0 25' 50'

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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORM SEWER PROFILES

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 2D(3)

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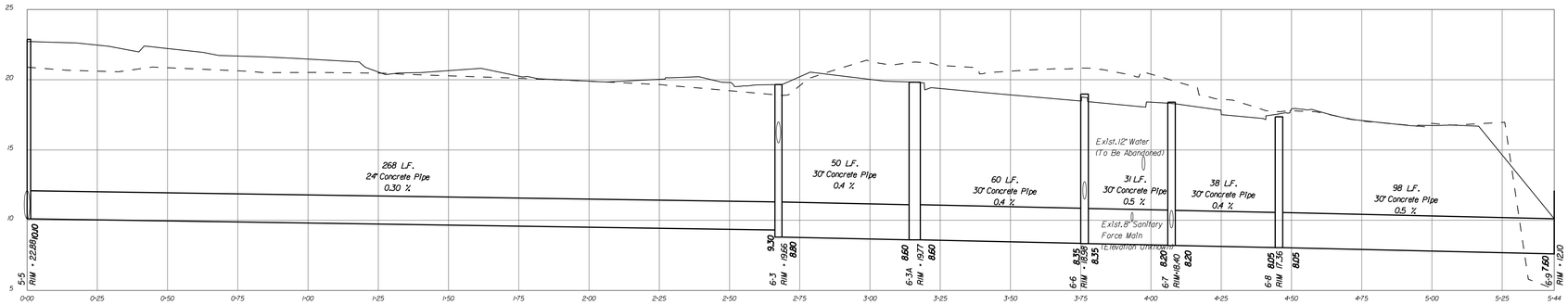

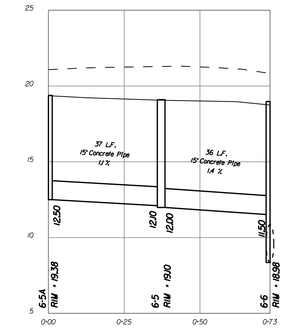

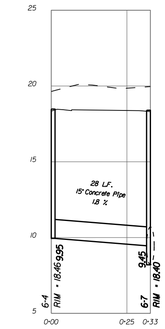

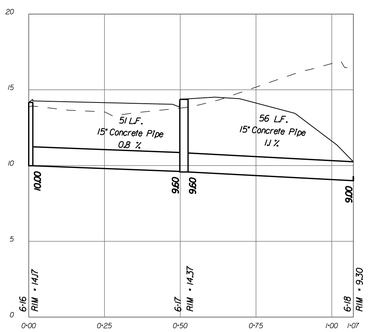

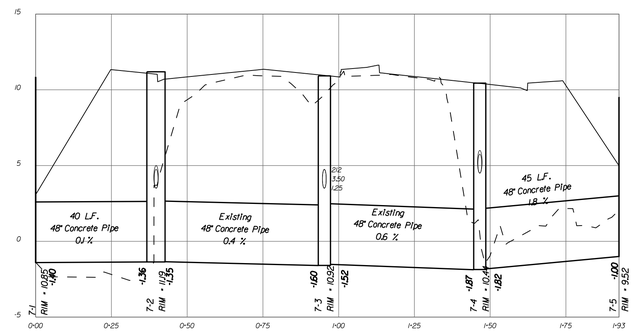

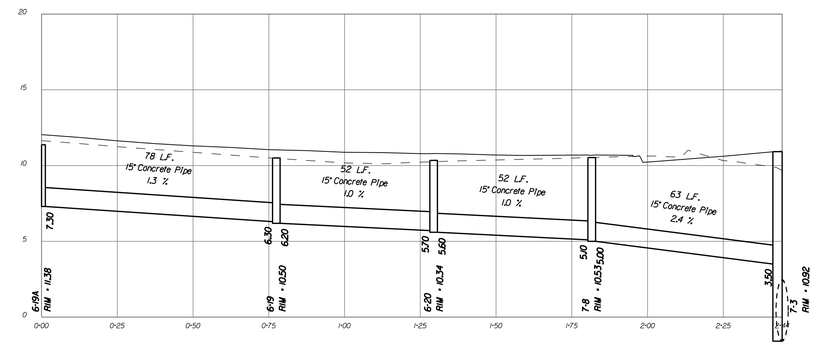

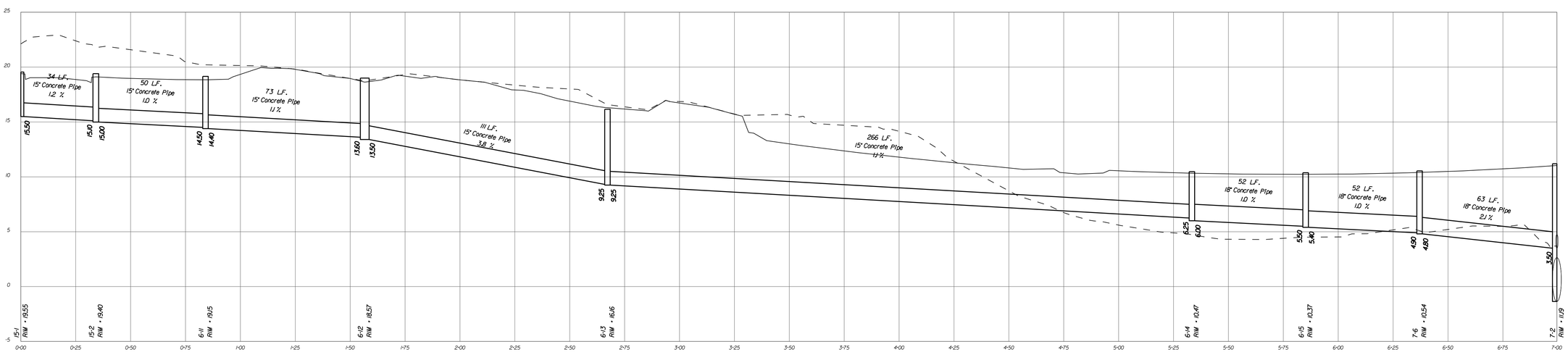

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VERTICAL: SCALE 0 5' 10'

HORIZONTAL: SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORM SEWER PROFILES

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 2D(4)

03:57 PM on May 10, 2019
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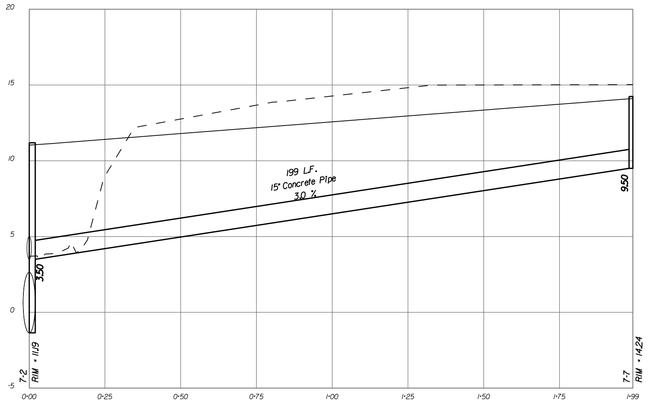

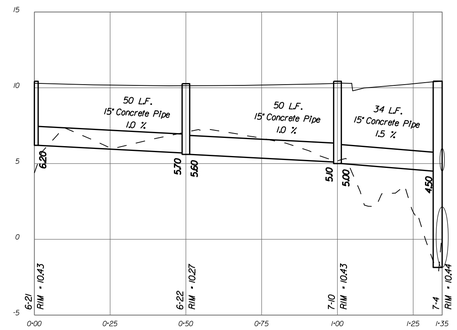

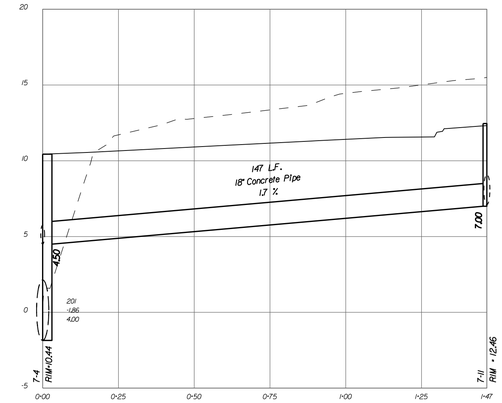

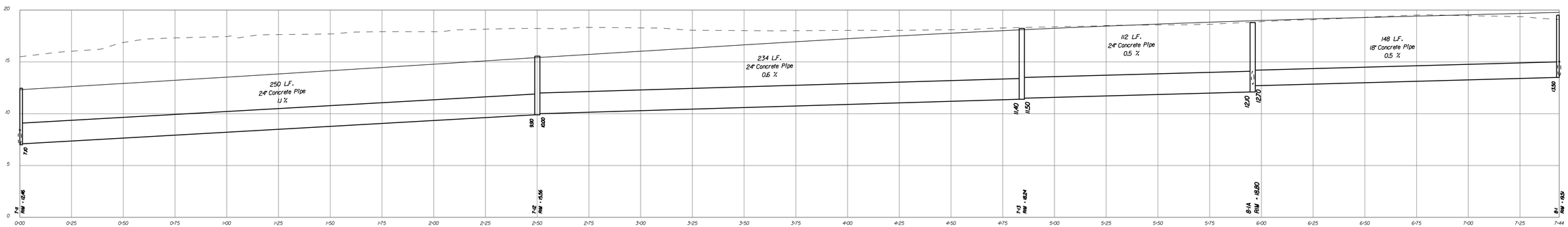

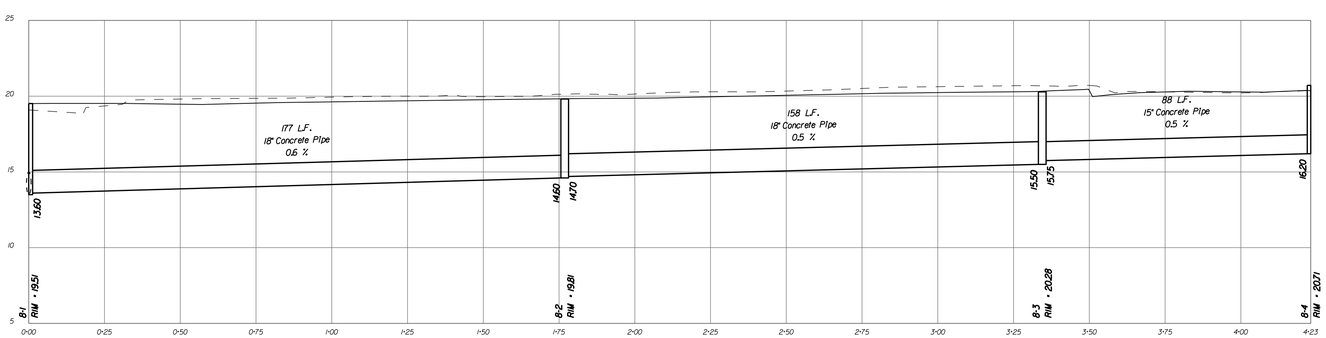

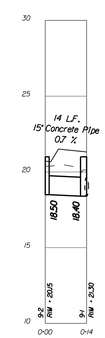

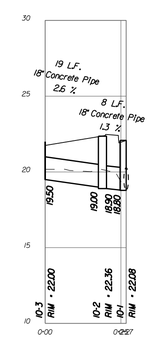

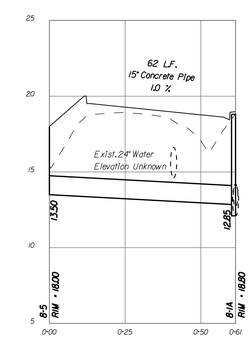

VERTICAL: SCALE 0 5' 10'

HORIZONTAL: SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORM SEWER PROFILES

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 2D(5)

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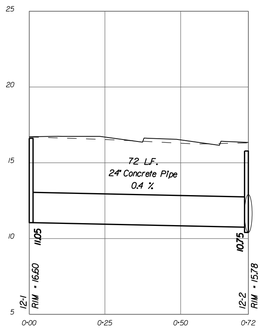

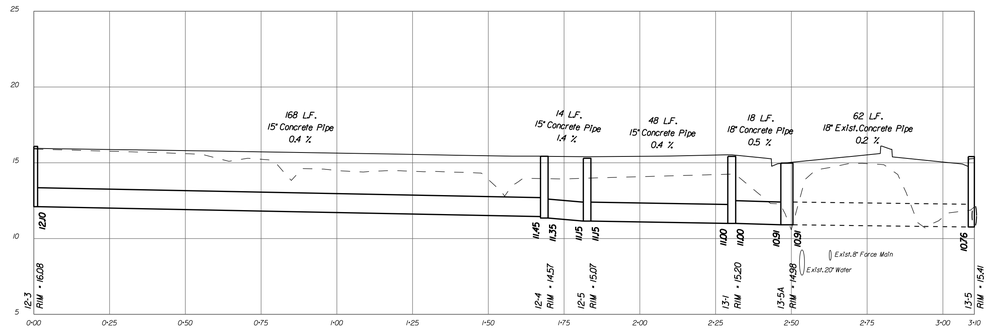

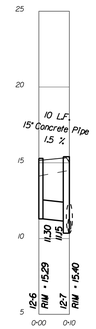

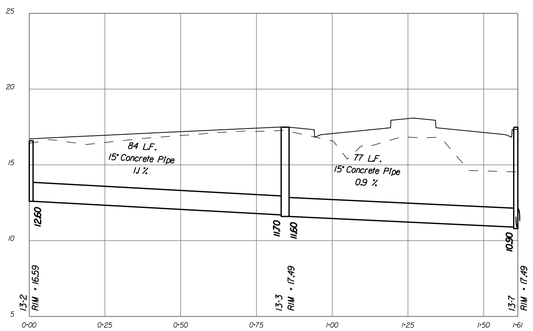

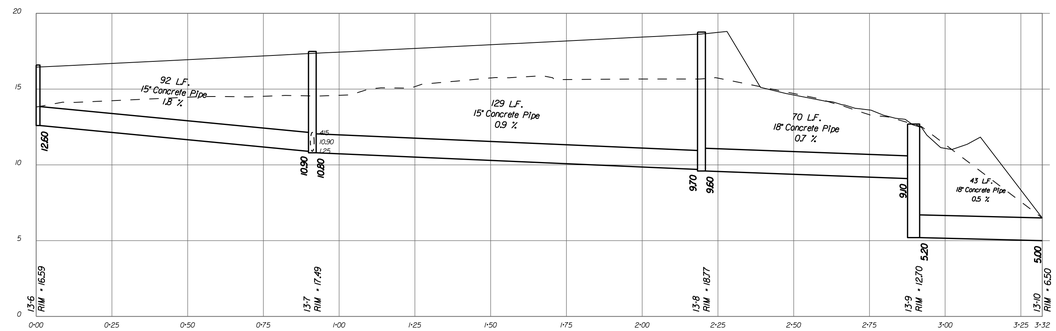

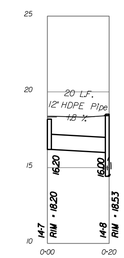

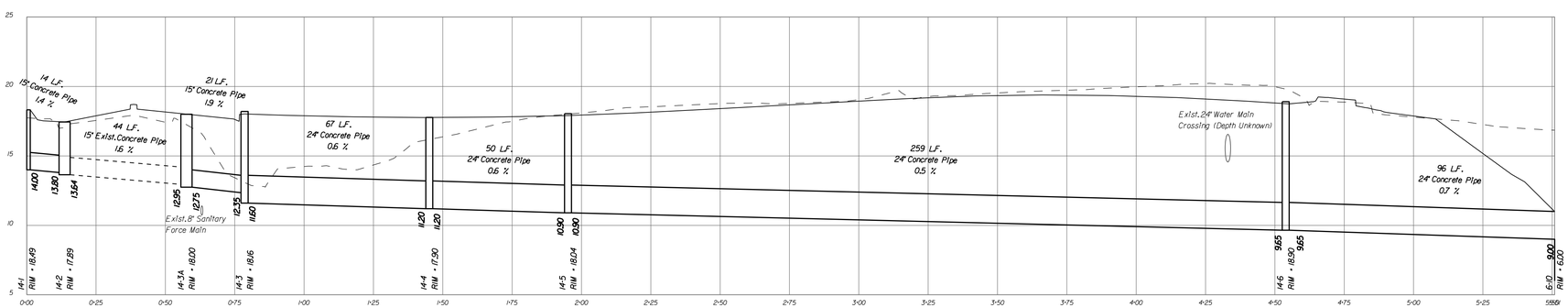

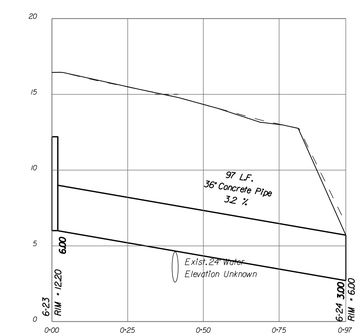

VERTICAL: SCALE 0 5' 10'

HORIZONTAL: SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORM SEWER PROFILES

90% PRELIMINARY PLANS

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CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP

SHEET NO. 2D(6)

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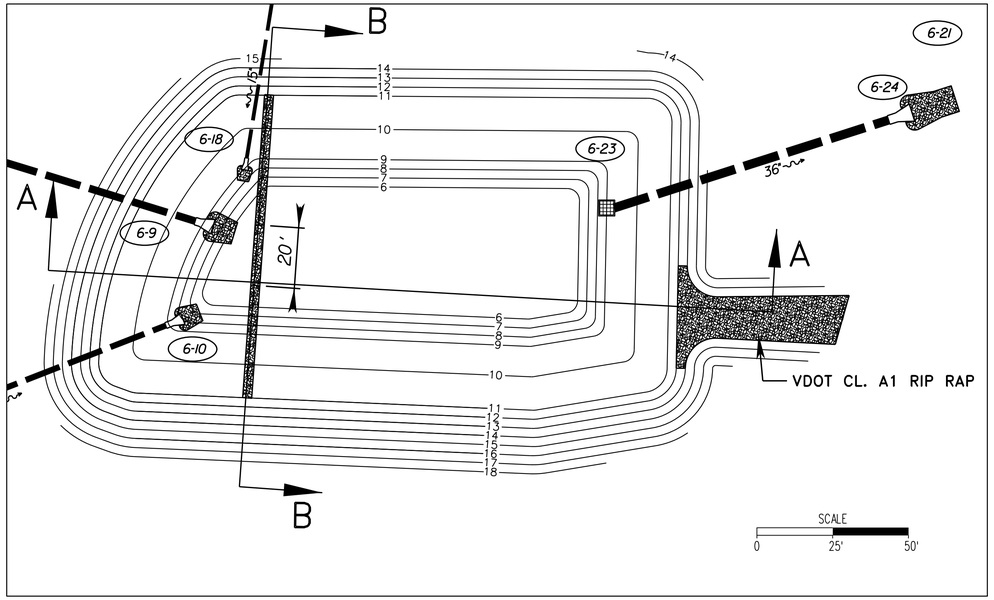
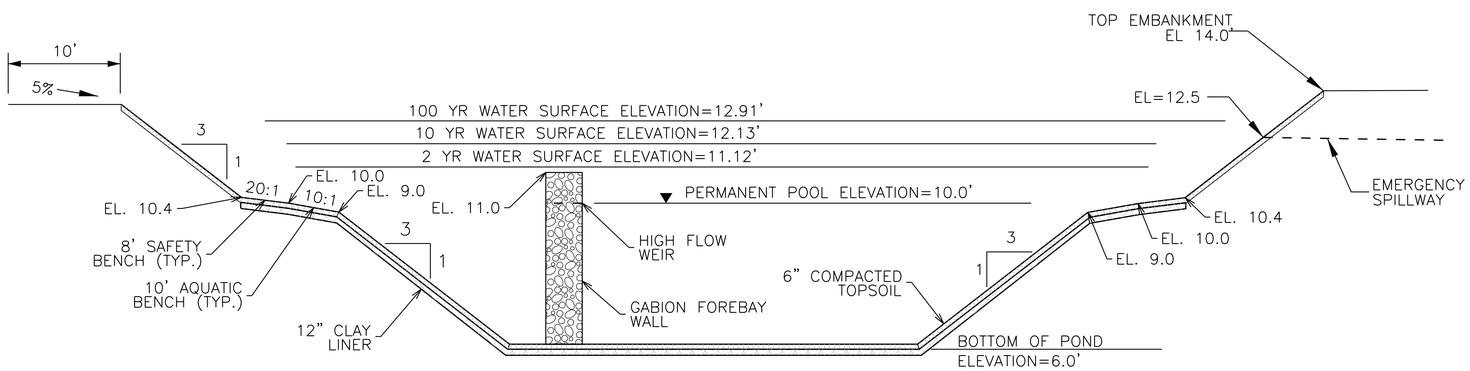


PLAN – RETENTION BASIN II (BMP–1)

MAINTENANCE TASK	FREQUENCY
• MOWING-TWICE A YEAR • REMOVE DEBRIS AND BLOCKAGES • REPAIR UNDERCUT, ERODED, AND BARE SOIL AREAS • REMOVE DEBRIS FROM THE OUTLET CONTROL STRUCTURE AND CLEAR THE ORIFICE	QUARTERLY OR AFTER MAJOR STORM (RAINFALL > 1-INCH)
• MOWING	TWICE A YEAR
• SHORELINE CLEANUP TO REMOVE TRASH, DEBRIS, AND FLOATABLES • A FULL MAINTENANCE INSPECTION • FLUSH THE CONNECTING PIPE BETWEEN THE TWO PONDS • INSPECT THE FLOATING FOUNTAIN, REPAIR AS NEEDED	ANNUALLY
• POND BUFFER AND AQUATIC BENCH REINFORCEMENT PLANTINGS	ONCE DURING THE SECOND YEAR AFTER CONSTRUCTION IS COMPLETE
• REMOVE SEDIMENT FROM POND (TEST SEDIMENTS AND DISPOSE OF ON SITE AS LAND FILL OR REMOVE OFFSITE AND DEPOSIT IN LOCAL LANDFILL)	EVERY 5 YEARS OR WHEN SEDIMENT STORAGE IS 50% FULL

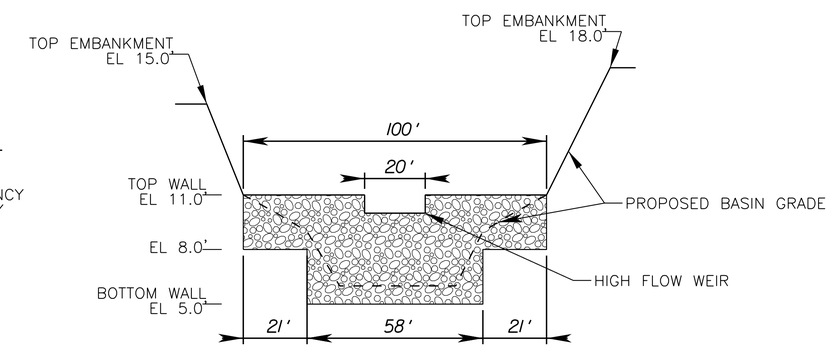
STORMWATER FACILITY MAINTENANCE AND INSPECTION

NOT TO SCALE



CROSS SECTION – RETENTION BASIN II (BMP–1)
SECTION 'A'–'A'

NOT TO SCALE



GABION FOREBAY WALL CROSS SECTION – 'B'–'B'

NOT TO SCALE

NOTES:

1. POND SHALL BE CONSTRUCTED IN ACCORDANCE WITH MINIMUM STANDARD 3.06 OF THE 1999 VIRGINIA STORMWATER MANAGEMENT HANDBOOK FOR DETENTION BASIN II.
2. EMBANKMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD 3.01, EARTHEN EMBANKMENT, OF THE 1999 VIRGINIA STORMWATER MANAGEMENT HANDBOOK.
3. GABION BASKETS IN FOREBAY WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH FHWA, WESTERN FEDERAL LANDS HIGHWAY DIVISION DETAIL W253-1.
4. COMPACTED CLAY LINER SHALL BE INSTALLED IN ACCORDANCE WITH CLAY LINER SPECIFICATIONS DEFINED IN THE 1999 VIRGINIA STORMWATER MANAGEMENT HANDBOOK.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 STORMWATER MANAGEMENT DETAILS BMP-1 DETAILS		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 2D(7)

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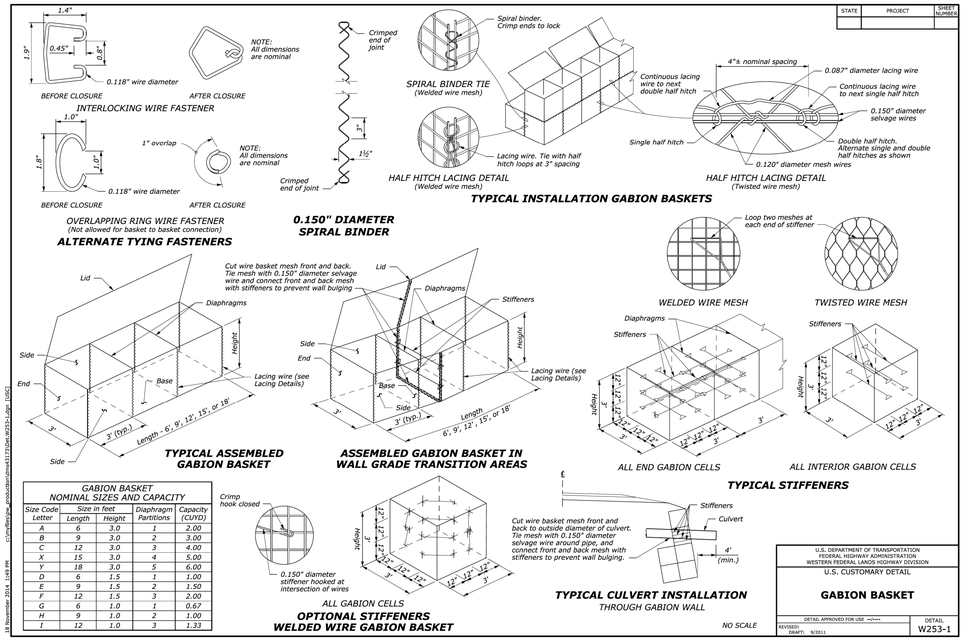
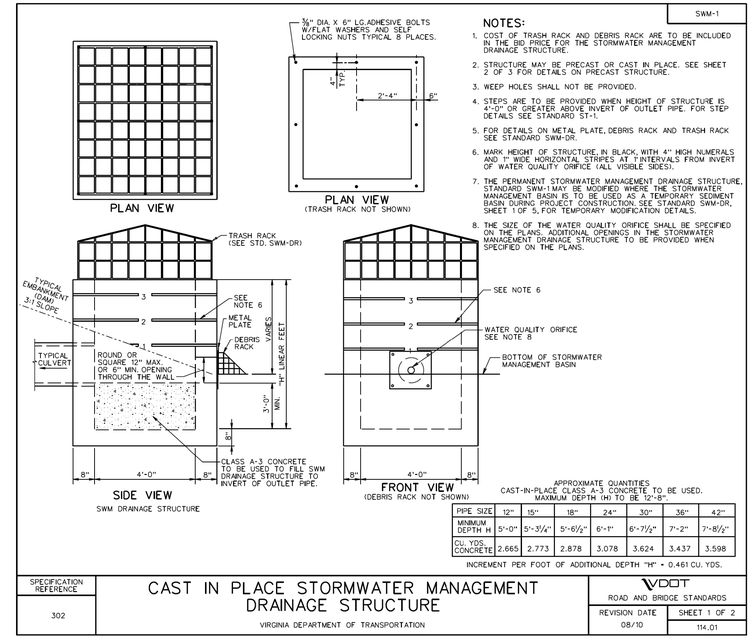


GABION BASKET DETAIL

NOT TO SCALE

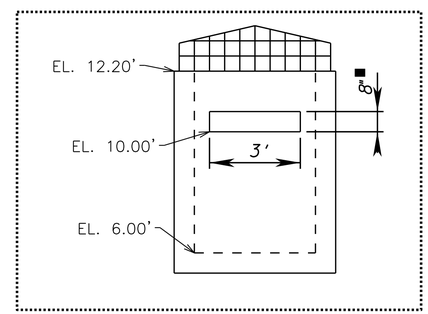
2016 ROAD & BRIDGE STANDARDS



2016 ROAD & BRIDGE STANDARDS

VDOT SWM-1 OUTFALL STRUCTURE

NOT TO SCALE



BMP-1 OUTLET STRUCTURE WATER QUALITY ORIFACE (6-23)

NOT TO SCALE

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

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORMWATER MANAGEMENT DETAILS
BMP-1 DETAILS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: M. VELASQUEZ
DATE: 5/10/19
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DESIGNED BY: MSM
APPROVED BY: WMP
SHEET NO. 2D(8)

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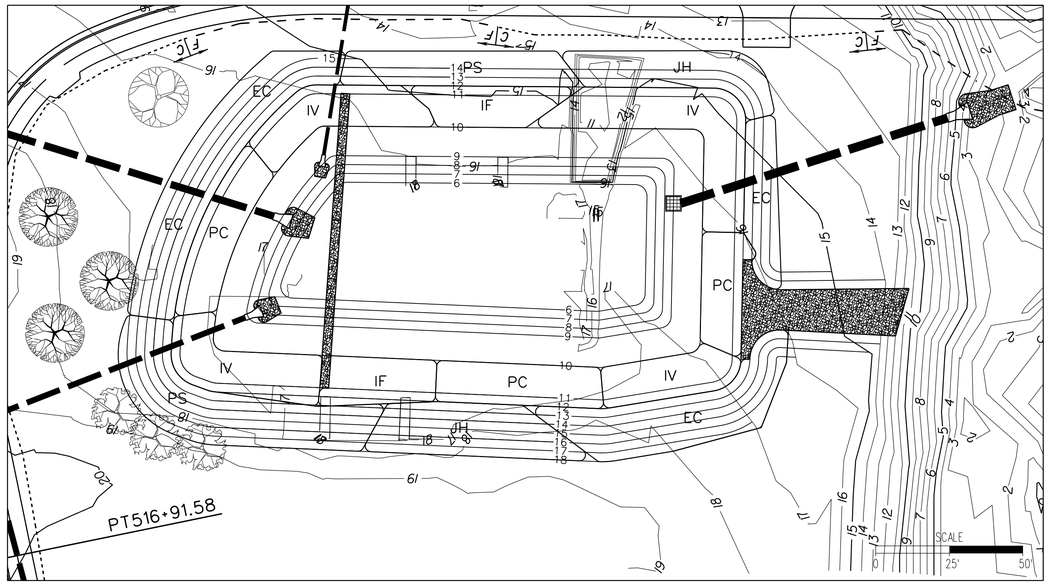
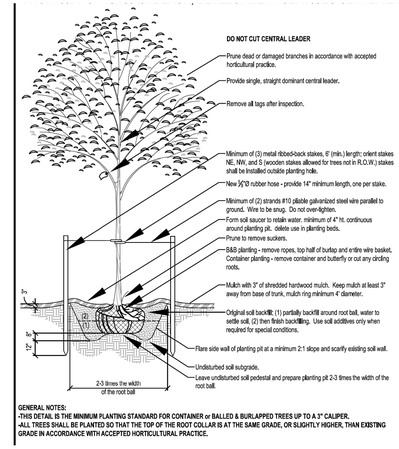
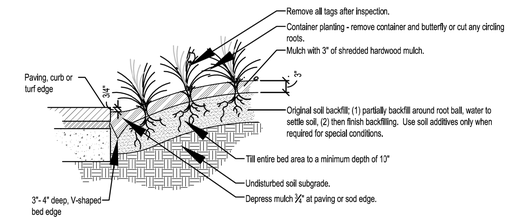


PLANTING PLAN – RETENTION BASIN II (BMP–1)



GENERAL NOTES:
-THIS DETAIL IS THE MINIMUM PLANTING STANDARD FOR CONTAINER or BALLED & BURLAPPED TREES UP TO A 3" CALIPER.
-ALL TREES SHALL BE PLANTED SO THAT THE TOP OF THE ROOT COLLAR IS AT THE SAME GRADE, OR SLIGHTLY HIGHER, THAN EXISTING GRADE IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICE.

TREE PLANTING DETAIL
MINIMUM REQUIRED STANDARDS



GENERAL NOTES:
-THIS DETAIL IS THE MINIMUM PLANTING STANDARD FOR CONTAINER ORNAMENTAL GRASSES, GROUNDCOVERS and PERENNIALS.
-ALL ORNAMENTAL GRASSES, GROUNDCOVERS and PERENNIALS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT COLLAR IS AT THE SAME GRADE, OR SLIGHTLY HIGHER, THAN EXISTING GRADE IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICE.

GRASS, GROUND COVER, AND PERENNIAL PLANTING DETAIL
MINIMUM REQUIRED STANDARDS

PLANTING DETAILS

NOTES:

1. IN EC AND VA PLANTING ZONE, PLANTS ARE TO BE INTER–MIXED WITH SAME SPECIES GROUPINGS OF 10–15 PLANTS.
2. ALL PITS FOR TREES SHALL BE DUG SQUARE WITH BOTTOMS LEVEL, THE LENGTH OF THE SIDES AND THE DEPTH AS SPECIFIED IN DETAIL. COMPACTED SOIL AT SIDES AND BOTTOMS SHALL BE LOOSENED BY SCARIFYING, OR OTHER APPROVED METHOD. PITS SHALL BE BACKFILLED WITH "PREPARED SOIL," THOROUGHLY SETTLED BY WATER APPLICATION.
3. ALL PLANT PITS FOR TREES 24" BOX SIZE AND LARGER SHALL BE EXCAVATED TO A MINIMUM OF 2' LARGER THAN THE SIDE AND 1' DEEPER THAN THE HEIGHT OF THE CONTAINER IN ORDER TO PERMIT HANDLING. PLANTING PITS FOR PLANT MATERIAL UP TO 15 GALLON SHALL BE A MINIMUM OF 6" LARGER THAN THE DIAMETER AND 6" DEEPER THAN THE HEIGHT OF THE CONTAINER. EXCAVATE PITS WITH VERTICAL SIDES FOR ALL PLANTS. PLANTS SHALL NOT BE PLANTED IN DRY SOIL. SOIL SHALL BE MOIST AT LEAST 18" DEEP.
4. SET PLANTS IN CENTER OF PIT, IN A VERTICAL POSITION, SO THAT THE CROWN OF THE BALL WILL BE LEVEL WITH FINISH GRADE AFTER ALLOWING FOR WATERING AND SETTLING AND SHALL BEAR THE SAME RELATIONSHIP TO THE FINISH GRADE THAT IT DID TO THE CONTAINER SOIL SURFACE.
5. SHURBS AND VINES: PLANTING PITS FOR SHRUBS AND VINES SHALL BE 6" GREATER IN DIAMETER AND 6" DEEPER THAN PLANT ROOTBALL. COMPACTED SOIL AT BOTTOM OF PIT SHALL BE LOOSENED AND THE PIT FILLED WITH "PREPARED SOIL" TO BE BOTTOM OF THE BALL. WHEN THE PLANT HAS BEEN PROPERLY SET, THE PIT SHALL BE FILLED TO THE REQUIRED GRADE WITH "PREPARED SOIL" AND THOROUGHLY SETTLED BY TAMPING AND WATERING.
6. GROUNDCOVER PLANTING PITS FOR ROOTED CUTTINGS FROM FLATS SHALL BE 6" X 6" X 6". GROUND COVER AREAS SHALL BE MOISTENED PRIOR TO PLANTING. NO GROUND COVER PLANTS SHALL BE PLANTED IN DRY SOIL. SET PLANTS IN CENTER OF PITS SO THAT AFTER SETTLING OF SOIL CROWN OF PLANT WILL BE LEVEL WITH FINISHED GRADE THEN BACKFILL AND WATER. GROUND COVER PLANTS SHALL BE WELL ROOTED WITH RUNNERS MINIMUM 4" LONG.
7. POND BANKS, EMBANKMENTS, AND PERIMETER ARE TO BE SEEDED WITH ERNST #122 WETLAND MEADOW MIX AT A RATE OF 20 POUNDS PER AC. OVERSEED WITH ANNUAL RYE AT A RATE OF 4 POUNDS PER 1,000 SF.

PLANTING SCHEDULE

TYPE	QTY	BOTANICAL NAME	COMMON NAME	SIZE (MINIMUM) CALIPER	SIZE (MINIMUM) SPACING	REMARKS
SWM LITTORAL SHELF						
EC	6880	Eragrostis curvula	Weeping Lovegrass	Flats	9" O.C.	
IF	1195	Isatoma fluviatilis	Bluestar Creeper	Flats	12" O.C.	
IV	3745	Iris virginica	Blue Flag Iris	Flats	12" O.C.	
JH	900	Juniperus horizontalis	Blue Chip Juniper	1 Gal.	18" O.C.	
PC	8720	Pontedera cordata	Pickerel Weed	Plug	6" O.C.	
PS	1170	Pennisetum setaceum	Fountain Grass	1 Gal.	18" O.C.	
QP	1	Quercus phellos	Willow Oak	2 1/2"	–	
BN	3	Pennisetum setaceum	Fountain Grass	2 1/2"	–	
MG	3	Pennisetum setaceum	Fountain Grass	2 1/2"	–	

TREE LEGEND

QP

BN

MG

CITY OF SUFFOLK
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STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORMWATER MANAGEMENT DETAILS
BMP-1 PLANTING PLAN

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: M. VELASQUEZ
DATE: 5/10/19
DRAWN BY: MSM
DESIGNED BY: MSM
APPROVED BY: WMP
SHEET NO. 2D(9)

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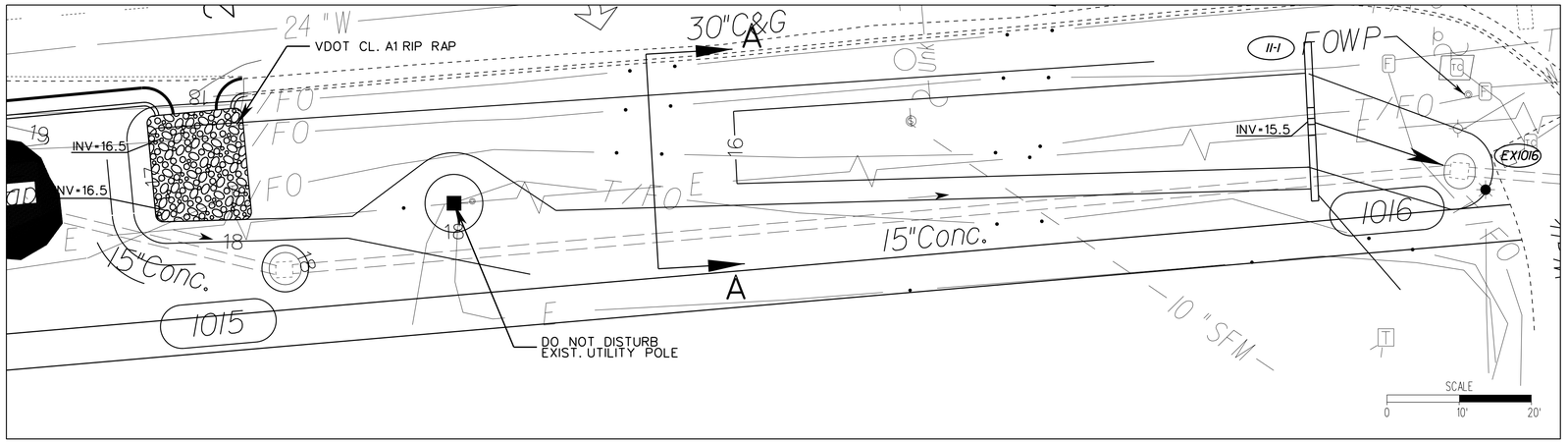
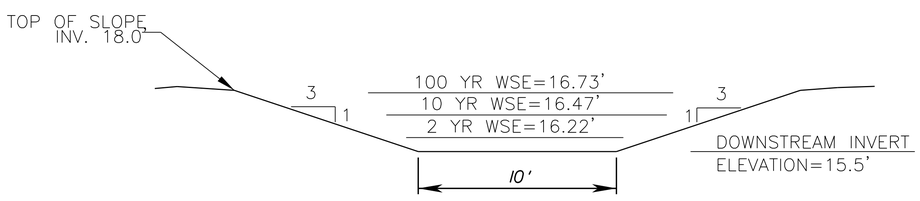
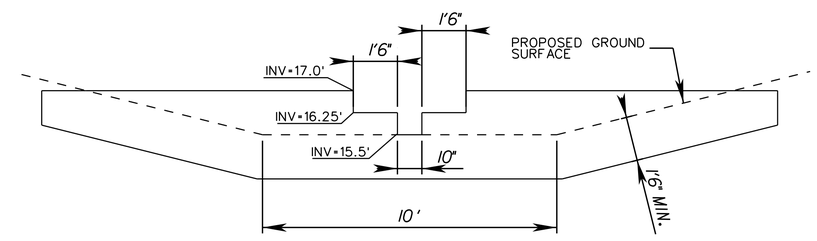


PLAN – RETENTION SWALE (BMP-2)



CROSS SECTION – RETENTION SWALE (BMP-2) SECTION 'A'–'A'

NOT TO SCALE



NOTES:

1. WEIR SHALL BE CONSTRUCTED OF REINFORCED CLASS A3 CONCRETE.
2. CONCRETE STRUCTURE SHALL EXTENDED A MINIMUM OF 18" BENEATH PROPOSED UPSTREAM GRADE.

BMP-2 OUTLET CONTROL WEIR DETAIL

NOT TO SCALE

NOTES:

1. DETENTION SWALE SHALL BE STABILIZED WITH TOPSOIL, VDOT EC-2 EROSION CONTROL MATTING, AND SEEDED IMMEDIATELY FOLLOWING GRADING ACTIVITIES.

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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
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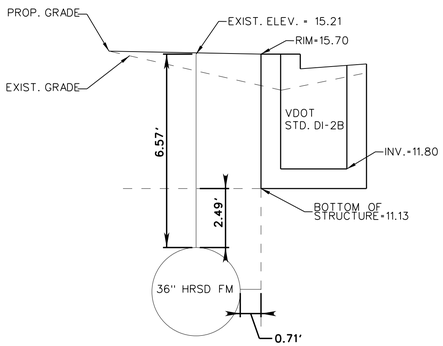
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 2D(10)

STRUCTURE 4-5

NOT TO SCALE



STRUCTURE 4-8

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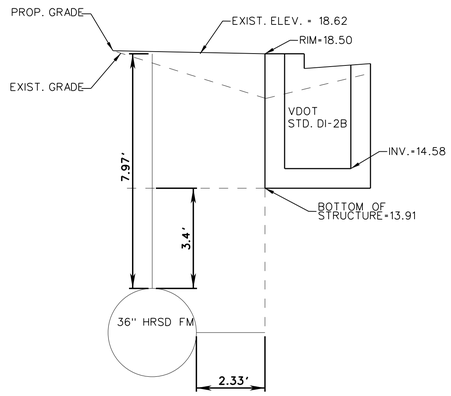
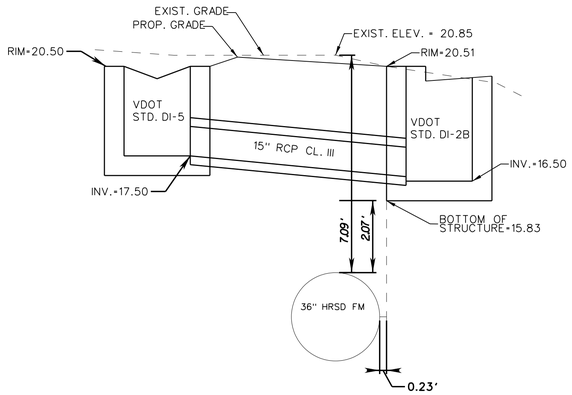


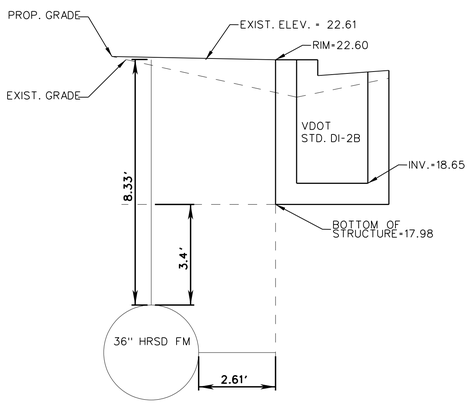
STRUCTURE 5-1

NOT TO SCALE



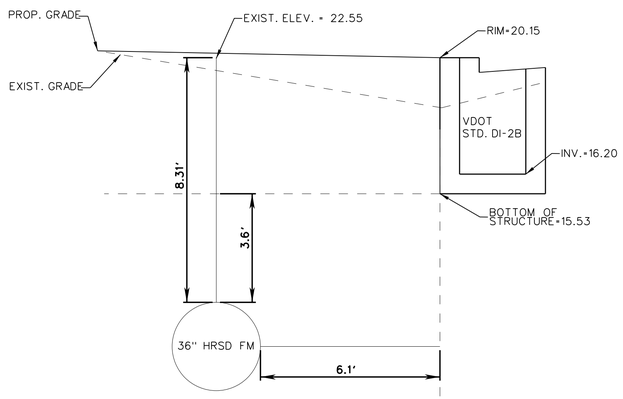
STRUCTURE 5-6

NOT TO SCALE



STRUCTURE 6-1

NOT TO SCALE



CITY OF SUFFOLK
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ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
STORMWATER MANAGEMENT DETAILS
HRSD SEPARATION SKETCHES

90% PRELIMINARY PLANS

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CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 2D(11)

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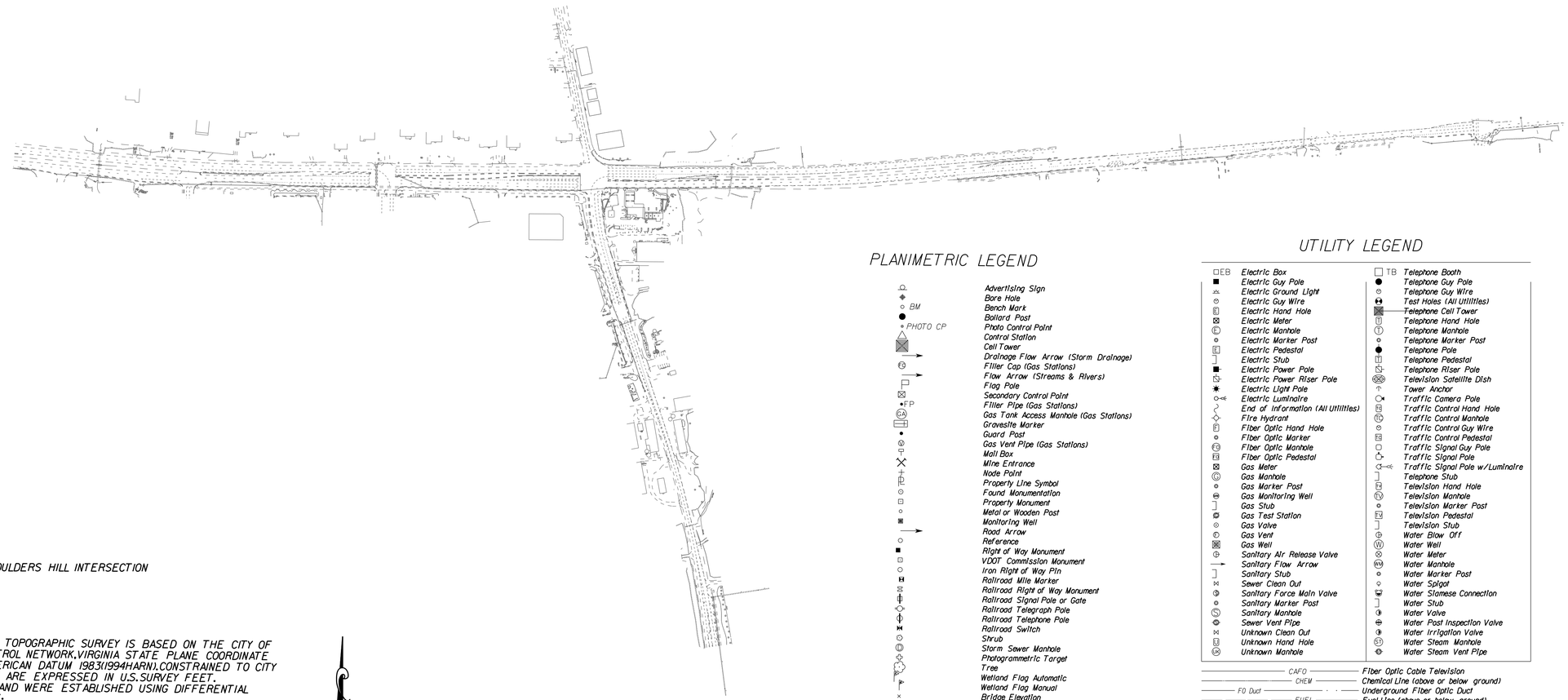

TOPOGRAPHIC SURVEY ROUTE 17/SHOULDERS HILL INTERSECTION
SUFFOLK,VIRGINIA
SCALE:1"=25'
PMI PROJECT #15229

SURVEY NOTES:

1. THE MERIDIAN SOURCE OF THIS TOPOGRAPHIC SURVEY IS BASED ON THE CITY OF SUFFOLK,VIRGINIA GEODETIC CONTROL NETWORK,VIRGINIA STATE PLANE COORDINATE SYSTEM,SOUTH ZONE,NORTH AMERICAN DATUM 1983(1994HARN).CONSTRAINED TO CITY DISKS 111,112,115,153 & 154.VALUES ARE EXPRESSED IN U.S.SURVEY FEET.
2. ELEVATIONS REFER TO NAVD88 AND WERE ESTABLISHED USING DIFFERENTIAL LEVELING METHODS INITIATED AT:
   NGS DISK #R-452.ELEVATION = 16.78'.
3. THIS SURVEY WAS PREPARED TO SHOW EXISTING FEATURES AS OF 10/2017 AND DOES NOT CERTIFY TO CHANGES TO SITE CONDITIONS WHICH OCCUR SUBSEQUENT TO THIS DATE AND OR TO PROPOSED IMPROVEMENTS.ADDITIONAL AREA ADDED TO EXISTING SURVEY ON 12/2018
4. THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY NOR A SUBDIVISION OF LAND.
5. THIS SURVEY DOES NOT INTEND TO DEPICT ANY HAZARDOUS WASTE AND ENVIRONMENTAL FEATURES THAT MAY AFFECT SAID PROPERTY SHOWN HEREON EXCEPT AS SHOWN.
6. THE UNDERGROUND UTILITIES HAVE BEEN DESIGNATED BY "ACCUMARK".THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA,EITHER IN SERVICE OR ABANDONED.THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.THE SURVEYOR FURTHER NOTIFIES ALL PARTIES THAT VIRGINIA LAW REQUIRES "VA811"TO BE CONTACTED PRIOR TO ANY EXCAVATION.
7. THE TOPOGRAPHY AND PHYSICAL FEATURES SHOWN ON THIS MAP WERE OBTAINED UNDER THE DIRECT AND RESPONSIBLE CHARGE AND SUPERVISION OF STEPHEN A. PEARCE,L.S.FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; HORIZONTAL & VERTICAL CONTROL,RIGHT-OF-WAY,EASEMENTS AND PROPERTY DATA WERE PREPARED UNDER THE DIRECT AND RESPONSIBLE CHARGE AND SUPERVISION OF FRANK WINEINGER,L.S.FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION;THE ORIGINAL DATA WAS OBTAINED BETWEEN JULY 2017 AND OCTOBER 2017.ADDITIONAL AREAS AND DATE WAS OBTAINED BETWEEN APRIL 2018 AND JUNE 2018.THIS PLAT,MAP,OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

PRECISION MEASUREMENTS,INC.
SURVEYORS - GPS - GIS - MAPPING - 3-D LASER SCANNING
629 PHOENIX DRIVE,SUITE 100
VIRGINIA BEACH,VA 23452
(757) 368-0945
WWW.PRECISIONMEASUREMENTS.COM
VIRGINIA BEACH - NEWPORT NEWS - RICHMOND,VIRGINIA

PLANIMETRIC LEGEND

- Advertising Sign
- Bore Hole
- BM — Bench Mark
- Bollard Post
- PHOTO CP — Photo Control Point
- Control Station
- Cell Tower
- Drainage Flow Arrow (Storm Drainage)
- Filler Cap (Gas Stations)
- Flow Arrow (Streams & Rivers)
- Flag Pole
- Secondary Control Point
- FP — Filler Pipe (Gas Stations)
- Gas Tank Access Manhole (Gas Stations)
- Gravesite Marker
- Guard Post
- Gas Vent Pipe (Gas Stations)
- Mail Box
- Mine Entrance
- Node Point
- Property Line Symbol
- Found Monumentation
- Property Monument
- Metal or Wooden Post
- Monitoring Well
- Road Arrow
- Reference
- Right of Way Monument
- VDOT Commission Monument
- Iron Rigth of Way Pin
- Railroad Mile Marker
- Railroad Right of Way Monument
- Railroad Signal Pole or Gate
- Railroad Telegraph Pole
- Railroad Telephone Pole
- Railroad Switch
- Shrub
- Storm Sewer Manhole
- Photogrammetric Target
- Tree
- Wetland Flag Automatic
- Wetland Flag Manual
- Bridge Elevation
- Plan Elevation
- Water Elevation
- Elevation Tick Mark
- Z — Connected Plat Symbol
- Brush Line
- Pipe Culverts *
- City Line
- County Line
- Curb Only
- Curb and Gutter
- Fence Line
- Guardrail
- Hedge Row
- Jersey Barrier
- OBSC — Obscure Areas
- Paved Ditches
- Railroad
- Right of Way
- State Line
- Edges of Water
- Sidewalks
- WL — Wetlands
- Woods

* Designate size of culverts
(Variable from 12" to 120")

UTILITY LEGEND

- EB — Electric Box
- Electric Guy Pole
- Electric Ground Light
- Electric Guy Wire
- Electric Hand Hole
- Electric Meter
- Electric Manhole
- Electric Marker Post
- Electric Pedestal
- Electric Stub
- Electric Power Pole
- Electric Power Riser Pole
- Electric Light Pole
- Electric Luminaire
- End of Information (All Utilities)
- Fire Hydrant
- Fiber Optic Hand Hole
- Fiber Optic Marker
- FO — Fiber Optic Manhole
- Fiber Optic Pedestal
- Gas Meter
- Gas Manhole
- Gas Marker Post
- Gas Monitoring Well
- Gas Stub
- Gas Test Station
- Gas Valve
- Gas Vent
- Gas Well
- Sanitary Air Release Valve
- Sanitary Flow Arrow
- Sanitary Stub
- Sewer Clean Out
- Sanitary Force Main Valve
- Sanitary Marker Post
- Sanitary Manhole
- Sewer Vent Pipe
- Unknown Clean Out
- Unknown Hand Hole
- Unknown Manhole
- TB — Telephone Booth
- Telephone Guy Pole
- Telephone Guy Wire
- Test Holes (All Utilities)
- Telephone Cell Tower
- Telephone Hand Hole
- Telephone Manhole
- Telephone Marker Post
- Telephone Pole
- Telephone Pedestal
- Telephone Riser Pole
- Television Satellite Dish
- Tower Anchor
- Traffic Camera Pole
- Traffic Control Hand Hole
- Traffic Control Manhole
- Traffic Control Guy Wire
- Traffic Control Pedestal
- Traffic Signal Guy Pole
- Traffic Signal Pole
- Traffic Signal Pole w/Luminaire
- Telephone Stub
- Television Hand Hole
- Television Manhole
- Television Marker Post
- Television Pedestal
- Television Stub
- Water Blow Off
- Water Well
- Water Meter
- Water Manhole
- Water Marker Post
- Water Spigot
- Water Siamese Connection
- Water Stub
- Water Valve
- Water Post Inspection Valve
- Water Irrigation Valve
- Water Steam Manhole
- Water Steam Vent Pipe
- CAFO — Fiber Optic Cable Television
- CHEM — Chemical Line (above or below ground)
- FO Duct — Underground Fiber Optic Duct
- FUEL — Fuel Line (above or below ground)
- G — Gas Line *
- G Duct — Gas Line Duct
- SAN — Gravity Sewer *
- SFM — Sanitary Force Main *
- TCFO — Traffic Control Fiber Optic
- T/FO — Telephone Fiber Optic
- FO — Underground Fiber Optic
- Unk — Unknown Utility Line
- E — Underground Power Cable
- E Duct — Underground Power Cable Duct
- T/Tg — Underground Telephone Cable
- T/Tg Duct — Underground Telephone Cable Duct
- TC — 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 *
- W Duct — Water Line Duct
- Unk — Depicted According To Utility Records **
- Unk — Abandoned According To Utility Records **
- Unk — According To Miss Utility Information **

* Designate size (Variable from 0.75" to 54")
** Designate type (Unknown line is shown)

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS
SURVEY NOTES & LEGEND

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP
SHEET NO.	2E(1)		

03:58 PM on May 10,2019
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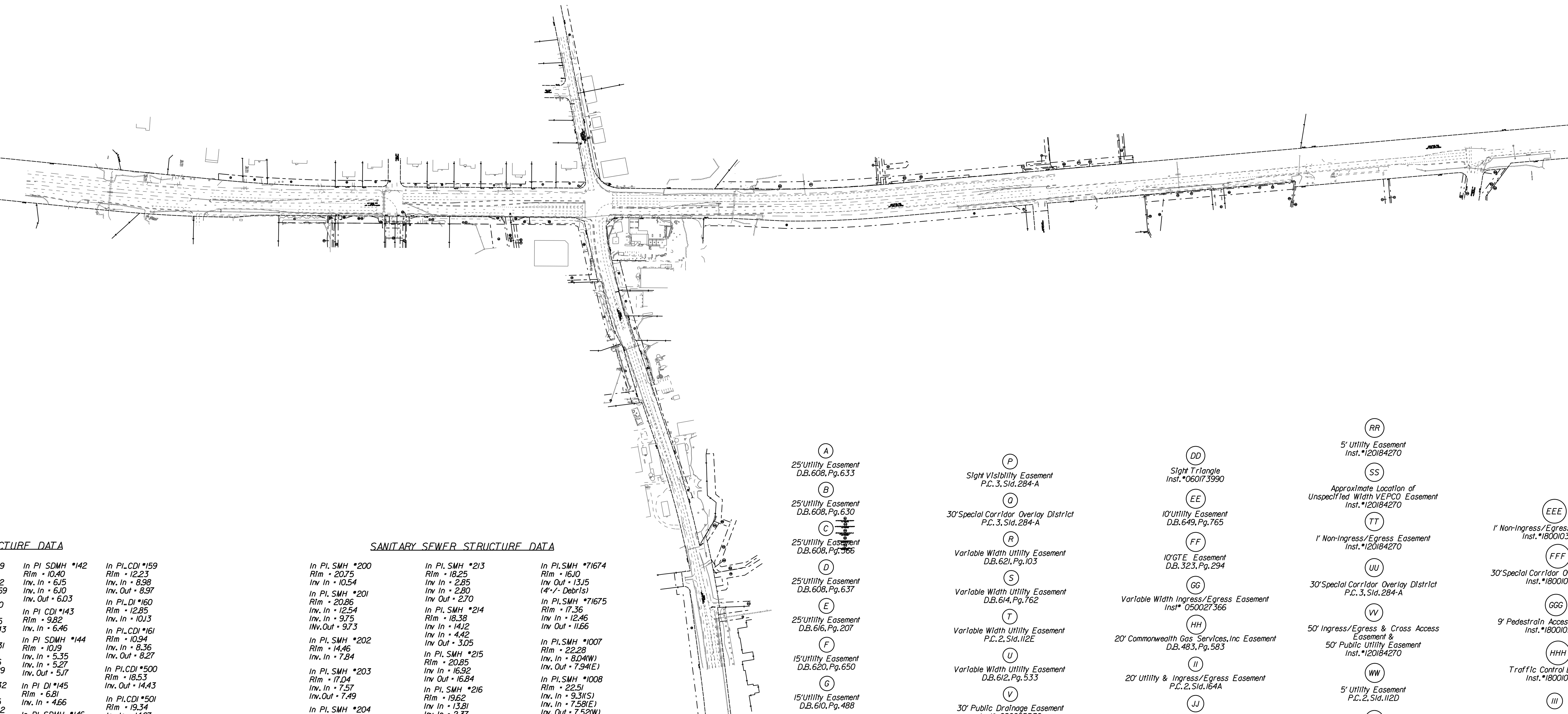

STORM DRAIN STRUCTURE DATA

In Pl SDMH *100
Rim = 18.43
Inv. In = 12.77

In Pl CDI *101
Rim = 17.18
Inv. In = 11.49
Inv. Out = 11.46

In Pl CDI *102
Rim = 15.81
Inv. In = 10.75
Inv. Out = 10.41

In Pl DI *103
Rim = 16.04
Inv. In = 9.69
Inv. Out = 9.68

In Pl CDI *104
Rim = 17.79
Inv. In = 14.50

In Pl SDMH *105
Rim = 17.71
Inv. In = 14.31
Inv. Out = 14.30

In Pl DI *106
Rim = 17.03
Inv. In = 13.66
Inv. Out = 13.64

In Pl DI *107
Rim = 17.55
Inv. In = 14.34
Inv. Out = 14.32

In Pl SDMH *108
Rim = 18.22
Inv. In = 14.66
Inv. Out = 14.61

In Pl DI *108A
Rim = 18.06
Bottom = 15.58

In Pl DI *109
Rim = 18.88
Inv. In = 15.07
Inv. Out = 15.06

In Pl DI *110
Rim = 19.35
Inv. In = 15.35

In Pl DI *111
Rim = 17.05
Inv. In = 12.95
Inv. In = 12.80
Inv. Out = 12.75

In Pl DI *112
Rim = 17.39
Inv. In = 12.94
Inv. Out = 12.90

In Pl DI *113
Rim = 18.58
Inv. In = 16.83

In Pl. CDI *114
Rim = 11.29
Inv. In = 7.51

In Pl. DI *115
Rim = 9.52
Inv. In = 4.89
Inv. Out = 4.74

In Pl. DI *116
Rim = 10.50
Inv. In = 7.37
Inv. In = 7.34
Inv. Out = 7.32

In Pl. CDI *117
Rim = 11.51
Inv. In = 8.64

In Pl. SDMH *118
Rim = 13.88
Inv. In = 11.05
Inv. Out = 10.99

In Pl. CDI *119
Rim = 13.96
Inv. In = 11.11
Inv. Out = 11.01

In Pl. CDI *120
Rim = 16.18
Inv. In = 11.67
Inv. Out = 11.64

In Pl. CDI *121
Rim = 17.18
Inv. In = 11.88
Inv. Out = 11.87

In Pl. CDI *122
Rim = 17.38
Inv. In = 13.23

In Pl. CDI *123
Rim = 16.83
Inv. In = 13.00
Inv. Out = 12.74

In Pl. CDI *124
Rim = 19.02
Inv. In = 12.91
Inv. Out = 12.97

In Pl. CDI *125
Rim = 19.19
Inv. In = 13.19

In Pl. CDI *126
Rim = 19.32
Inv. In = 12.69
Inv. Out = 12.61

In Pl. CDI *127
Rim = 19.01
Inv. In = 12.39

In Pl. CDI *128
Rim = 20.28
Inv. In = 16.12

In Pl. DI *129
Rim = 21.46
Inv. In = 15.82
Inv. Out = 15.69

In Pl. DI *130
Rim = 21.18
Inv. In = 15.45
Inv. Out = 15.43

In Pl. CDI *131
Rim = 22.08
Inv. In = 14.36
Inv. Out = 14.29

In Pl. CDI *132
Rim = 20.74
Inv. In = 15.25
Inv. Out = 15.22

In Pl. CDI *133
Rim = 19.81
Inv. In = 15.12
Inv. Out = 15.06

In Pl. CDI *134
Rim = 17.97
Inv. In = 14.59
Inv. In = 14.59
Inv. Out = 15.55

In Pl. CDI *135
Rim = 18.10
Inv. In = 14.83
Inv. In = 14.83
Inv. Out = 14.71

In Pl. CDI *136
Rim = 20.28
Inv. In = 18.08
Inv. Out = 17.99

In Pl. CDI *137
Rim = 21.86
Inv. In = 18.20

In Pl. CDI *138
Rim = 16.90
Inv. In = 13.68
Inv. Out = 13.57

In Pl. CDI *139
Rim = 11.63
Inv. In = 8.78
Inv. In = 8.53
Inv. Out = 8.42

In Pl CDI *140
Rim = 10.14
Inv. In = 5.69
Inv. Out = 5.44

In Pl. DI *141
Rim = 10.44
Inv. In = 6.19

In Pl SDMH *142
Rim = 10.40
Inv. In = 6.15
Inv. In = 6.10
Inv. Out = 6.03

In Pl CDI *143
Rim = 9.82
Inv. In = 6.46

In Pl SDMH *144
Rim = 10.19
Inv. In = 5.35
Inv. In = 5.27
Inv. Out = 5.17

In Pl DI *145
Rim = 6.81
Inv. In = 4.66

In Pl SDMH *146
Rim = 10.04
Inv. In = -1.59
Inv. Out = -1.93

In Pl SDMH *147
Rim = 10.24
Inv. In = 5.19
Inv. Out = 5.12

In Pl. CDI *148
Rim = 19.99
Inv. In = 16.20
Inv. Out = 16.15

In Pl. CDI *149
Rim = 19.57
Inv. In = 16.00
Inv. Out = 15.98

In Pl. CDI *150
Rim = 20.25
Inv. In = 16.81
Inv. Out = 16.78

In Pl. CDI *151
Rim = 20.25
Inv. In = 17.28

In Pl. CDI *152
Rim = 20.31
Inv. In = 18.11

In Pl. DI *153
Rim = 8.64
Inv. In = -0.61
Inv. Out = -1.52

In Pl. DI *154
Rim = 20.99
Inv. In = 16.30
Inv. Out = 16.30

In Pl. DI *155
Rim = 119.49
Inv. In = 16.39

In Pl. DI *156
Rim = 21.75
Inv. In = 14.53
Inv. In = 14.45
Inv. Out = 14.35

In Pl. CDI *159
Rim = 12.23
Inv. In = 8.98
Inv. Out = 8.97

In Pl. DI *160
Rim = 12.85
Inv. In = 10.13

In Pl. CDI *161
Rim = 10.94
Inv. In = 8.36
Inv. Out = 8.27

In Pl.CDI *500
Rim = 18.53
Inv. Out = 14.43

In Pl.CDI *501
Rim = 19.34
Inv.In = 14.07
Inv. Out = 14.03

In Pl.DI *71675
Rim = 16.60
Btm = 13.93

In Pl.DI *71676
Rim = 16.58
Btm = 13.90

In Pl.DI *71677
Rim = 16.59
Btm = 13.94

In Pl.DI *71678
Rim = 16.59
Btm = 13.92

In Pl.DI *72170
Rim = 14.27
Inv In = 10.99

In Pl.DI *72175
Rim = 16.60
Btm = 13.93

In Pl.DI *72176
Rim = 15.23
Inv In = 11.03

In Pl. DI *1004
Rim = 21.46
Inv. In = 17.86(E)
Inv. In = 17.86(W)
Inv. Out = 17.81(N)

In Pl. DI *1005
Rim = 20.13
Inv. In = 18.40(E)

In Pl. DI *1006
Rim = 19.88
Inv. In = 17.03(S)
Inv. Out = 16.93(N)

In Pl. DI *1009
Rim = 22.03
Inv. In = 18.73(E)

DI *1015
Rim = 17.52
Inv. In = 14.76(NW)
Inv. Out = 14.72(E)

SANITARY SEWER STRUCTURE DATA

In Pl. SMH *200
Rim = 20.75
Inv In = 10.54

In Pl. SMH *201
Rim = 20.86
Inv. In = 12.54
Inv. In = 9.75
INv.Out = 9.73

In Pl. SMH *202
Rim = 14.46
Inv. In = 7.84

In Pl. SMH *203
Rim = 17.04
Inv. In = 7.57
Inv.Out = 7.49

In Pl. SMH *204
Rim = 19.34
Inv. In = 6.95
Inv.Out = 6.93
Top of Pipe = 5.29 (6"DIP)

In Pl. SMH *205
Rim = 17.27
Inv. In = 5.82
Inv.Out = 5.72

In Pl. SMH *206
Rim = 19.71
Inv. In = 10.52
Inv. In = 4.98
Inv.Out = 4.96

In Pl. SMH *207
Rim = 21.15
Inv. In = 4.18
Inv.Out = 4.03

In Pl. SMH *208
Rim = 20.70
Inv. In = 3.78
Inv.Out = 3.49

In Pl. SMH *210
Rim = 22.33
Inv In = 11.51
Inv In = 0.42
Inv Out = 0.40

In Pl. SMH *211
Rim = 21.72
Inv. In = 12.99
Inv. In = 0.95
Inv.Out = 0.84

In Pl. SMH *212
Rim = 20.24
Inv In = 1.91
Inv In = 1.89
Inv Out = 1.88

In Pl. SMH *213
Rim = 18.25
Inv In = 2.85
Inv In = 2.80
Inv Out = 2.70

In Pl. SMH *214
Rim = 18.38
Inv In = 14.12
Inv In = 4.42
Inv Out = 3.05

In Pl. SMH *215
Rim = 20.85
Inv In = 16.92
Inv Out = 16.84

In Pl. SMH *216
Rim = 19.62
Inv In = 13.81
Inv In = 2.37
Inv In = 2.31
Inv Out = 2.31

In Pl. SMH *217
Rim = 20.76
Inv In = 2.75
Inv Out = 2.71

In Pl. SMH *218
Rim = 23.08
Inv In = 17.50
Inv Out = 17.45

In Pl. SMH *219
Rim = 23.09
Inv In = 17.51
Inv Out = 17.46

In Pl. SMH *220
Rim = 20.36
Inv In = 2.92
Inv Out = 2.86

In Pl. SMH *221
Rim = 15.51
Inv In = 3.49
Inv Out = 3.46

In Pl. SMH *222
Rim = 14.65
Inv In = 3.65
Inv Out = 3.63

In Pl. SMH *223
Rim = 12.65
Inv In = 4.32
Inv Out = 4.27

In Pl.SMH *71673
Rim = 16.34
Inv In = 15.05
Inv Out = 13.14
(4'+/- Debris)

In Pl.SMH *71674
Rim = 16.10
Inv Out = 13.15
(4'+/- Debris)

In Pl.SMH *71675
Rim = 17.36
Inv In = 12.46
Inv Out = 11.66

In Pl.SMH *1007
Rim = 22.28
Inv. In = 8.04(W)
Inv. Out = 7.94(E)

In Pl.SMH *1008
Rim = 22.51
Inv. In = 9.31(S)
Inv. In = 7.58(E)
Inv. Out = 7.52(W)

In Pl.SMH *1010
Rim = 22.97
Inv. In = 6.54(W)
Inv. Out = 6.49(E)

In Pl.SMH *1011
Rim = 21.99
Inv. In = 5.77(N)
Inv. In = 5.70(W)
Inv. Out = 5.56(E)

In Pl.SMH *1013
Rim = 19.95
Inv. In = 5.27(W)
Inv. Out = 5.21(S)

In Pl.SMH *1014
Rim = 21.70
Inv. In = 4.56(N)
Inv. Out = 4.51(S)

In Pl.SMH *1019
Rim = 21.47
Inv In = 9.92

(A)
25'Utility Easement
D.B.608,Pg.633

(B)
25'Utility Easement
D.B.608,Pg.630

(C)
25'Utility Easement
D.B.608,Pg.566

(D)
25'Utility Easement
D.B.608,Pg.637

(E)
25'Utility Easement
D.B.616,Pg.207

(F)
15'Utility Easement
D.B.620,Pg.650

(G)
15'Utility Easement
D.B.610,Pg.488

(H)
15'Utility Easement
D.B.613,Pg.380

(I)
15'Utility Easement
D.B.620,Pg.653

(J)
Variable Width Utility Easement
D.B.619,Pg.840

(K)
25'Utility Easement
D.B.613,Pg.377

(L)
Existing HRSD Easement
D.B.418,Pg.296

(M)
25'Utility Easement
D.B.613,Pg.373

(N)
Variable Width Utility Easement
D.B.613,Pg.370

(O)
Existing HRSD Easement
D.B.418,Pg.300

(P)
Sight Visibility Easement
P.C.3,Sld.284-A

(Q)
30'Special Corridor Overlay District
P.C.3,Sld.284-A

(R)
Variable Width Utility Easement
D.B.621,Pg.103

(S)
Variable Width Utility Easement
D.B.614,Pg.762

(T)
Variable Width Utility Easement
P.C.2,Sld.112E

(U)
Variable Width Utility Easement
D.B.612,Pg.533

(V)
30' Public Drainage Easement
Inst* 090095530

(W)
30' Special Corridor Overlay District
Inst.*060180070-Plat

(X)
Variable Width Utility And
Ingress/Egress Easement
For The Benefit Of Parcel "A1"
P.C.3,Sld.323B

(Y)
30' Special Corridor Overlay District
P.C.4,Sld.49E

(Z)
10'GTE Easement
D.B.323,Pg.294

(AA)
Variable Width Utility Easement
D.B.649,Pg.765

(BB)
30' Special Corridor Overlay District
Inst.*060172900-Plat

(CC)
30' Utility Easement
D.B.649,Pg.765

(DD)
Sight Triangle
Inst.*060173990

(EE)
10'Utility Easement
D.B.649,Pg.765

(FF)
10'GTE Easement
D.B.323,Pg.294

(GG)
Variable Width Ingress/Egress Easement
Inst* 050027366

(HH)
20' Commonwealth Gas Services,Inc Easement
D.B.483,Pg.583

(II)
20' Utility & Ingress/Egress Easement
P.C.2,Sld.164A

(JJ)
65' Utility Easement
P.C.2,Sld.164A

(KK)
30' Utility Easement
P.C.2,Sld.164A

(LL)
25' Drainage Easement
Inst.*060173990

(MM)
70' Ingress/Egress Easement
Inst.*050027366

(NN)
30' Special Corridor Overlay District
P.C.3,Sld.323B

(OO)
30' Utility Easement
Inst* 060173990

(PP)
25' Ingress/Egress Easement
Inst.*050027366

(QQ)
25' Drainage Easement
Inst.*060173990

(RR)
5' Utility Easement
Inst.*120184270

(SS)
Approximate Location of
Unspecified Width VEPCO Easement
Inst.*120184270

(TT)
1' Non-Ingress/Egress Easement
Inst.*120184270

(UU)
30'Special Corridor Overlay District
P.C.3,Sld.284-A

(VV)
50' Ingress/Egress & Cross Access
Easement &
50' Public Utility Easement
Inst.*120184270

(WW)
5' Utility Easement
P.C.2,Sld.112D

(XX)
20' Utility Easement
P.C.3,Sld.83C-D

(YY)
5' Utility Easement
P.C.3,Sld.83C-D

(ZZ)
20' Utility Easement
P.C.3,Sld.78A-B

(AAA)
7.5' Pedestrian Access Easement
P.C.4,Sld.33A-C

(BBB)
Variable Width Drainage Easement
P.C.3,Sld.78A-B

(CCC)
20' Drainage Easement
P.C.3,Sld.112B-D

(DDD)
5' Utility Easement
P.C.2,Sld.112D

(EEE)
1' Non-Ingress/Egress Easement
Inst.*180010303

(FFF)
30'Special Corridor Overlay District
Inst.*180010303

(GGG)
9' Pedestrain Access Easement
Inst.*180010303

(HHH)
Traffic Control Easement
Inst.*180010303

(III)
Variable Width Public Drainage Easement
Inst.*180010303

(JJJ)
Variable Width Public Utility Easement
Inst.*180010303

(LLL)
Variable Width Public Utility Easement
Inst.*170013796

(MMM)
Variable Width Public Drainage Easement
Inst.*170013796

(NNN)
20' Stormwater Management Facility &
Maintenance Easement
Inst.*170013796

(OOO)
20' Public Drainage Easement
Inst.*170013796

(PPP)
20' Ingress/Egress Easement
D.B.357,Pg.431

NANSEMOND 1646 SUFFOLK 1742
1974
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS
SURVEY NOTES

90%
PRELIMINARY
PLANS

NOT FOR
CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ
DATE 5/10/19
DRAWN BY MSM
DESIGNED BY MSM
APPROVED BY WMP
SHEET NO. 2E(2)

03:58 PM on May 10,2019
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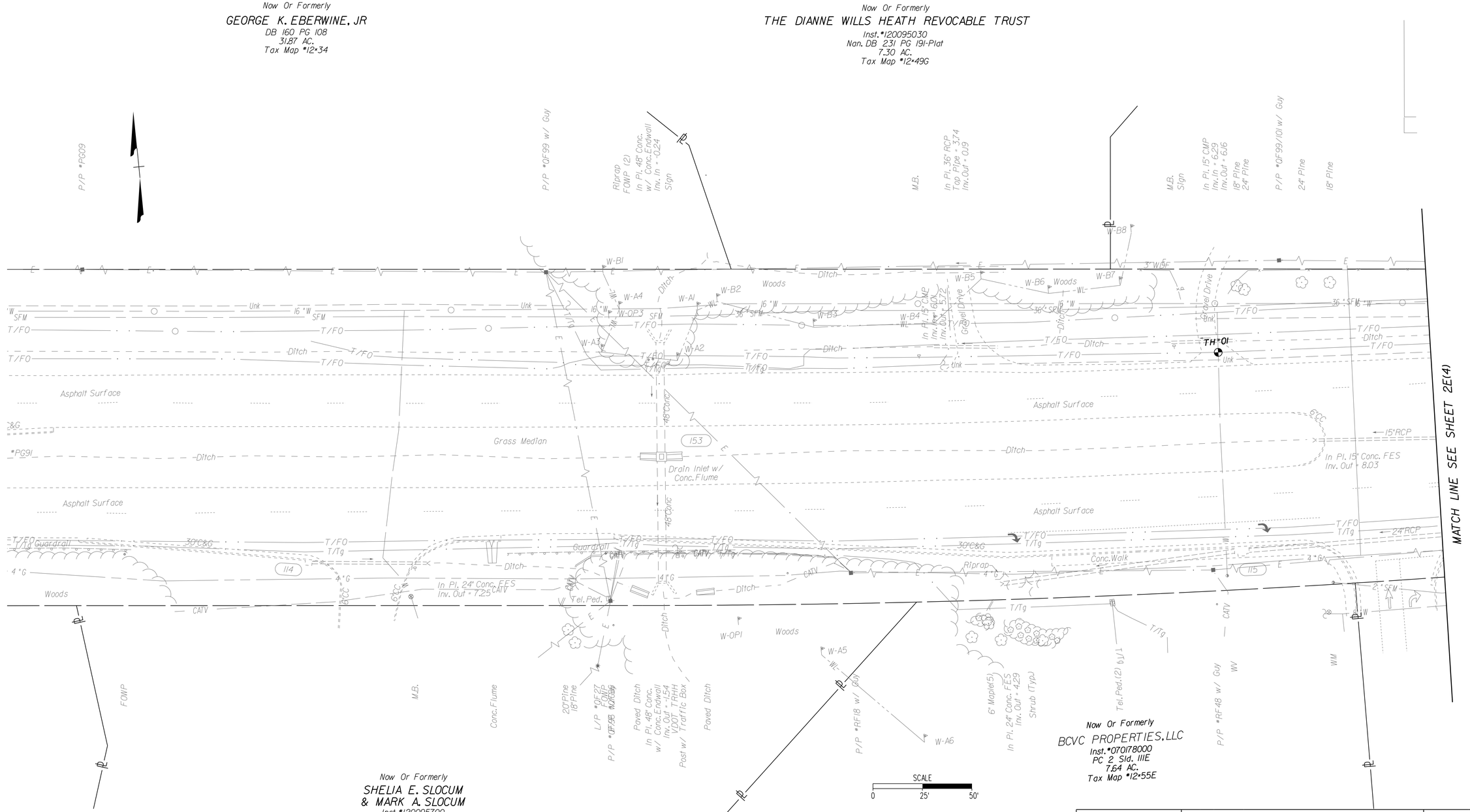

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	
M. VELASQUEZ	DESIGNED BY	SHEET NO. 2E(3)
DATE 5/10/19	APPROVED BY	

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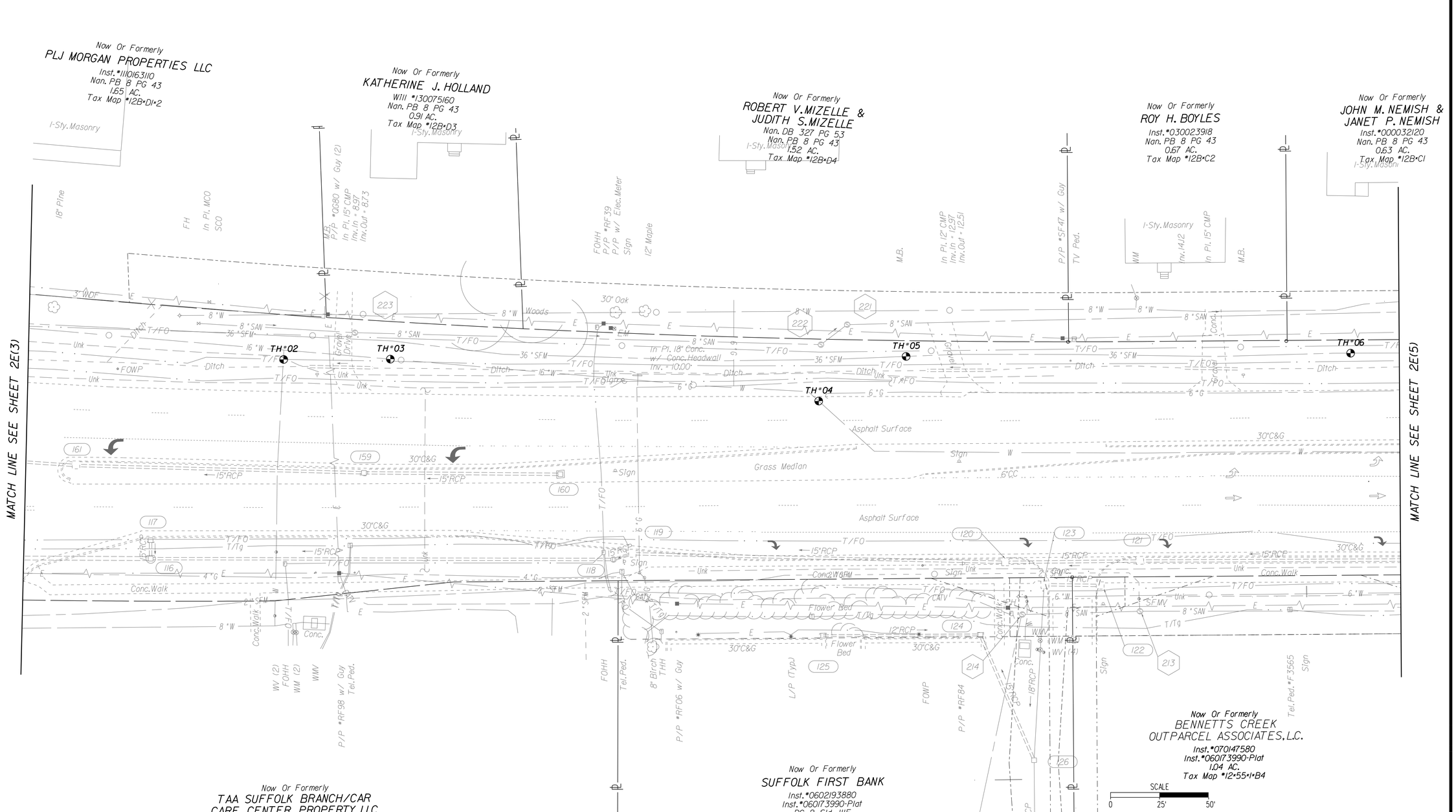

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	
DESIGNED BY	
APPROVED BY	
SHEET NO.	2E(4)

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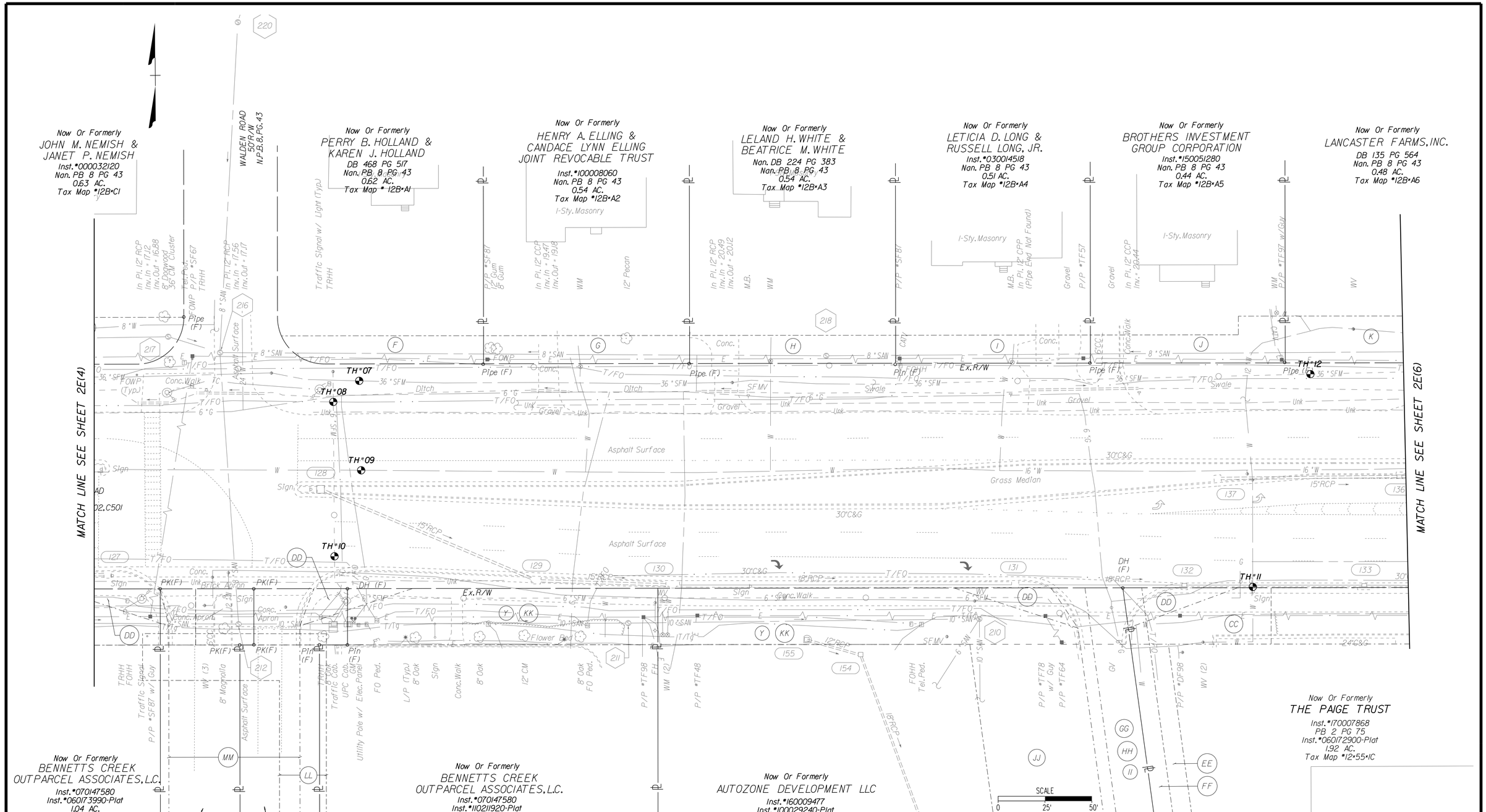

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK VIRGINIA 1974

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	
DESIGNED BY	
APPROVED BY	
SHEET NO.	2E(5)

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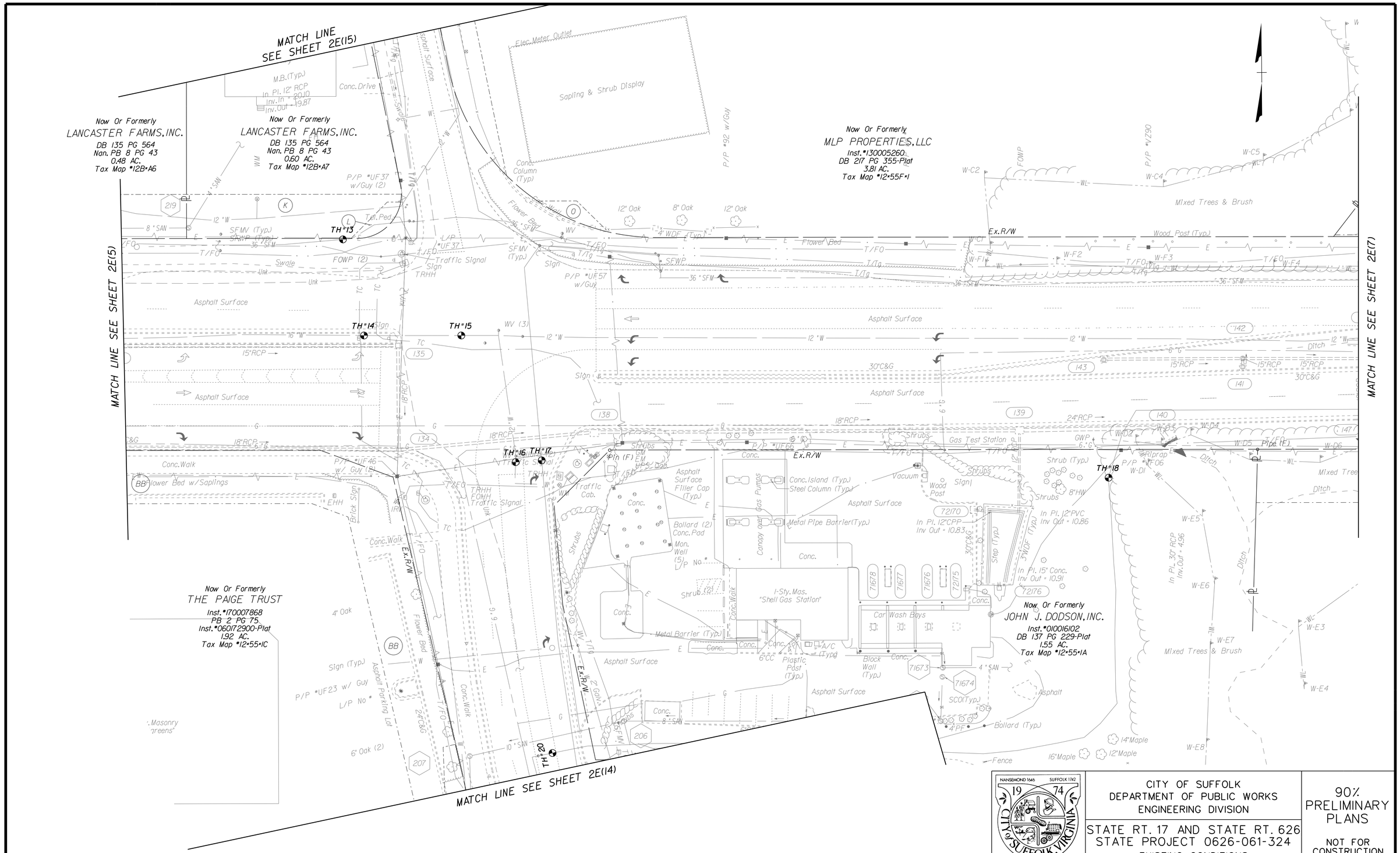

NANSEMOND 1665 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	
M. VELASQUEZ	DESIGNED BY	SHEET NO. 2E(6)
DATE 5/10/19	APPROVED BY	

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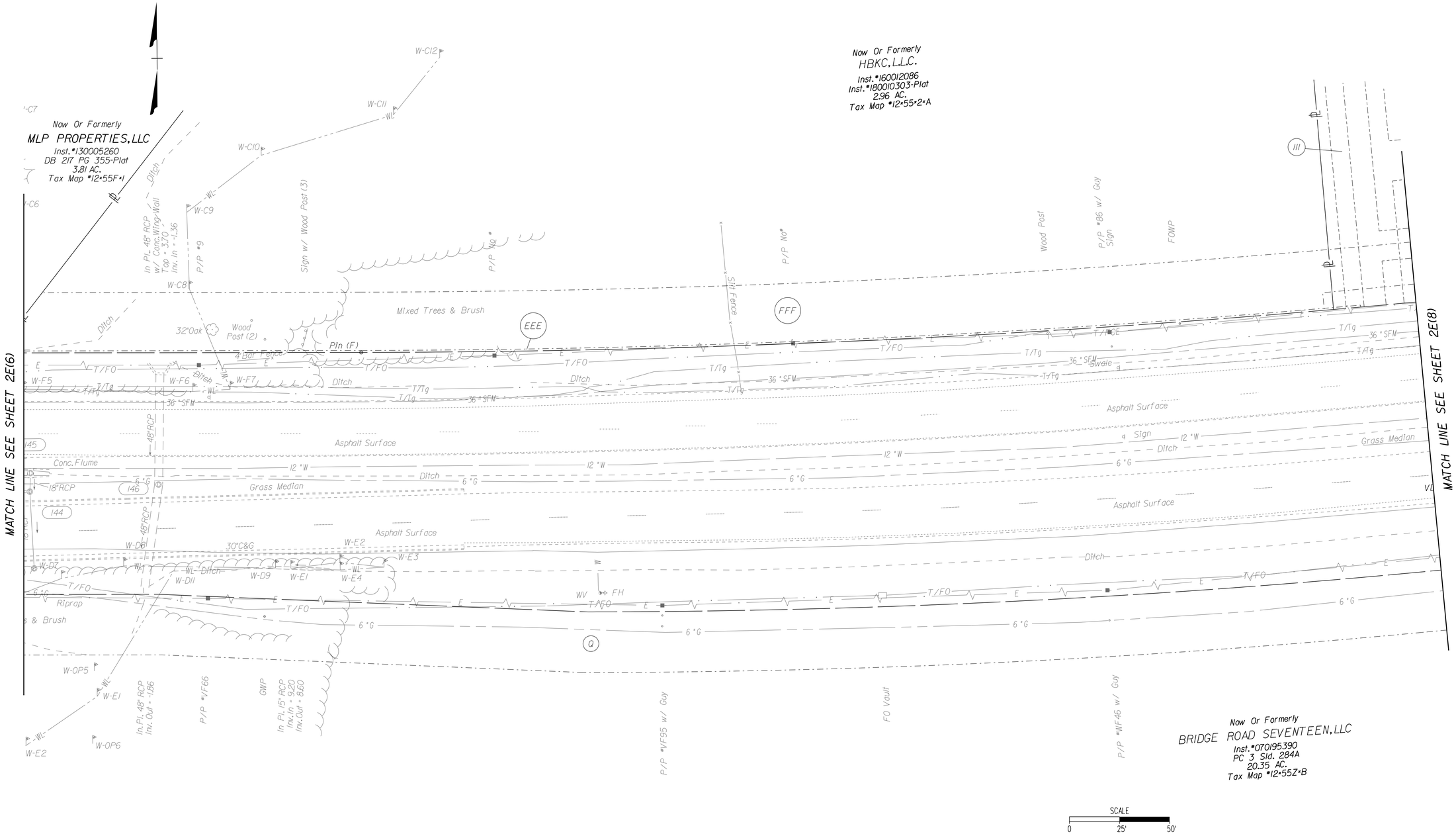

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EXISTING CONDITIONS	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY DESIGNED BY APPROVED BY	SHEET NO. 2E(7)

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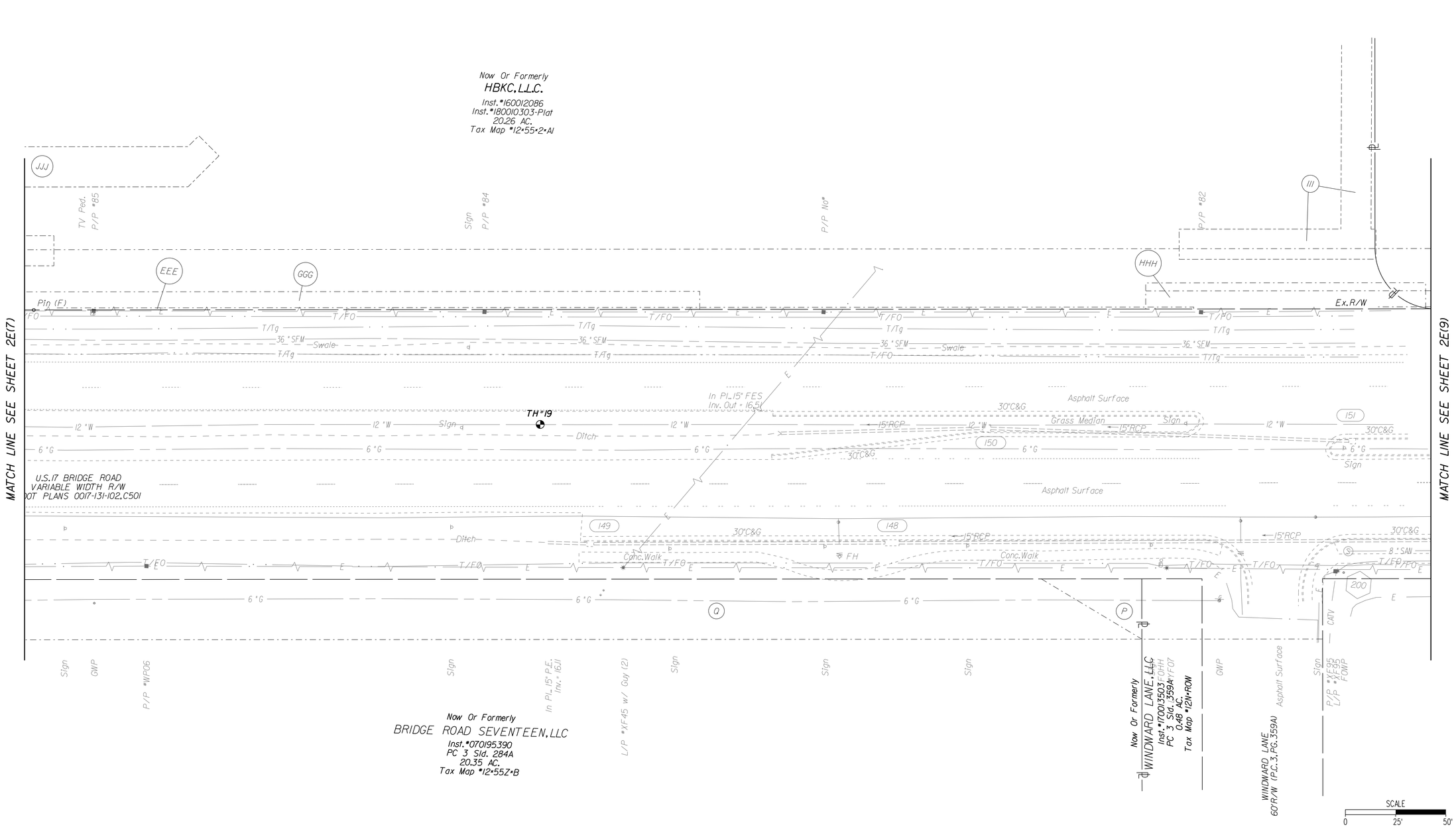

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	
M. VELASQUEZ	DESIGNED BY	SHEET NO. 2E(8)
DATE 5/10/19	APPROVED BY	

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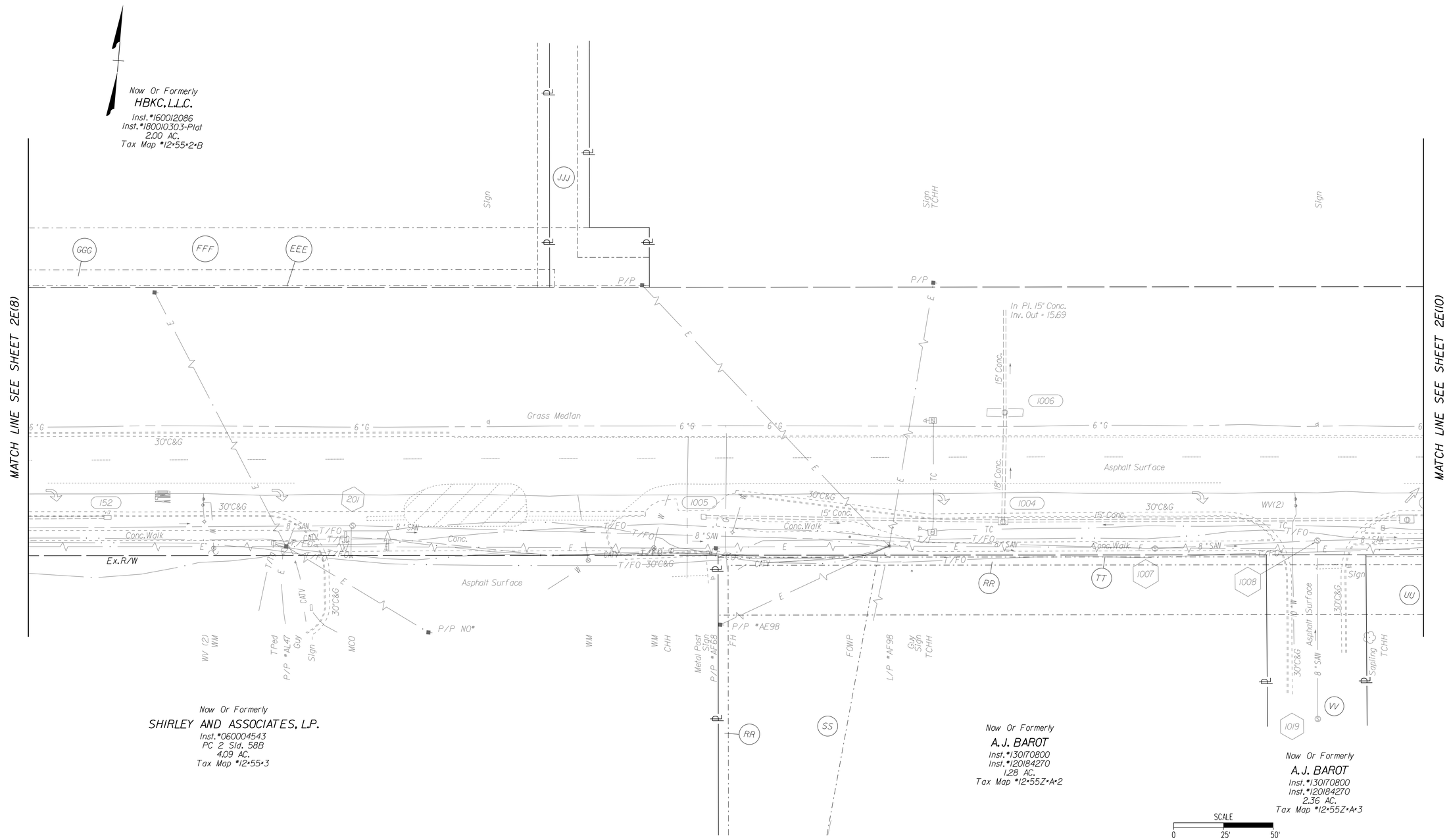

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	
DESIGNED BY	
APPROVED BY	
SHEET NO.	2E(9)

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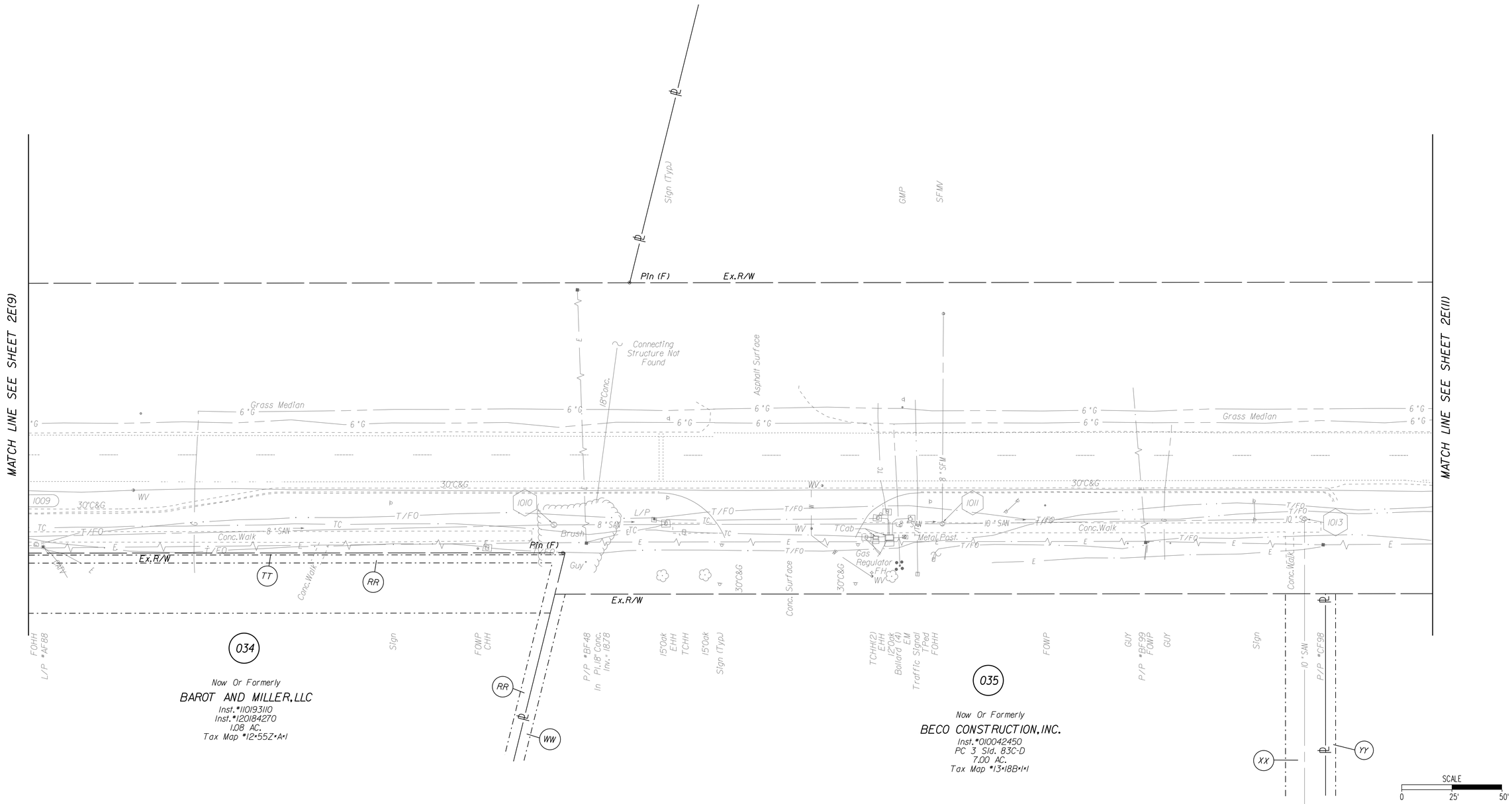

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY
M. VELASQUEZ	DESIGNED BY
DATE 5/10/19	APPROVED BY

SHEET NO. 2E(10)

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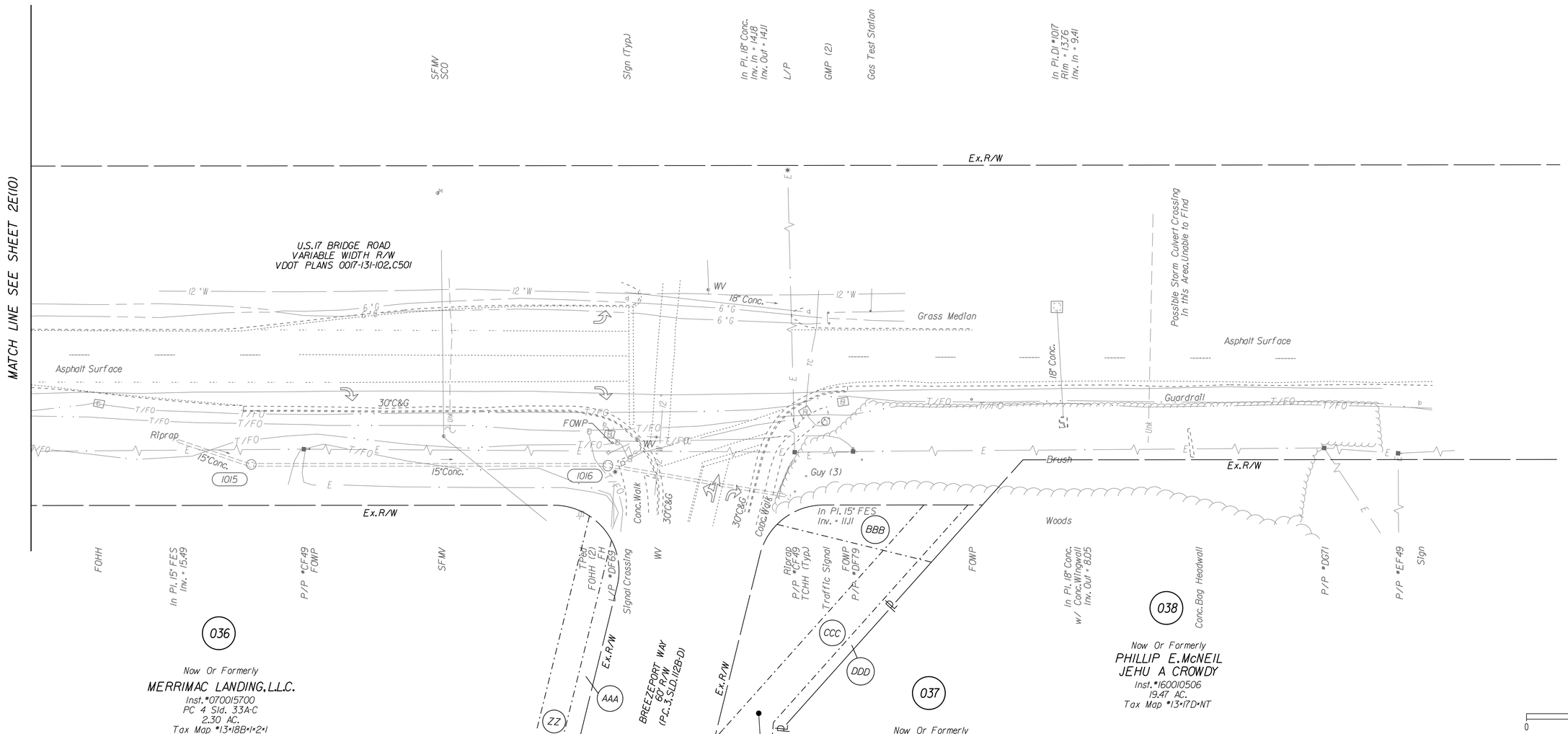

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISITING CONDITIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	
DESIGNED BY	
APPROVED BY	
SHEET NO.	2E(11)

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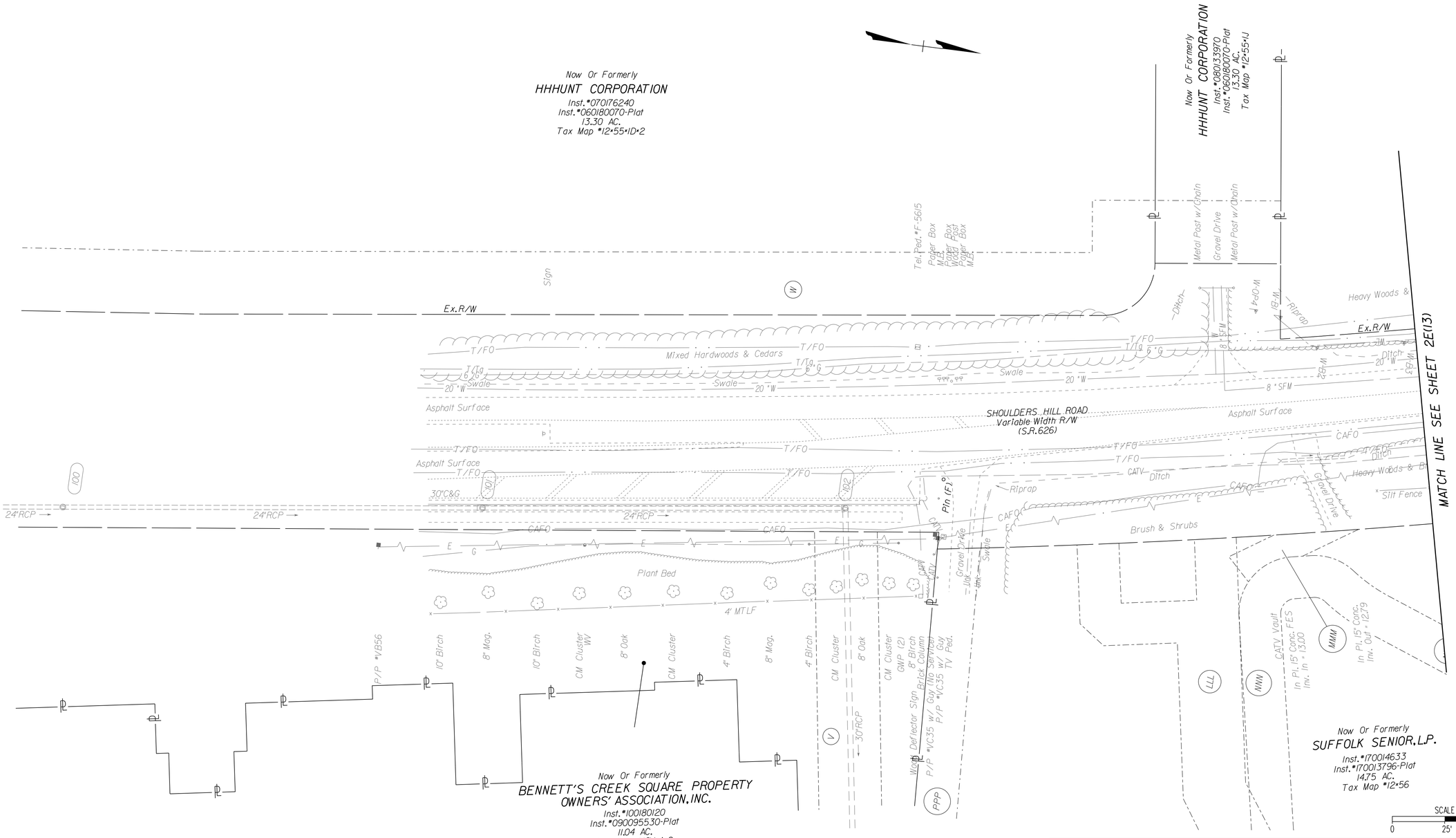

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY
M. VELASQUEZ	DESIGNED BY
DATE 5/10/19	APPROVED BY

SHEET NO. 2E(12)

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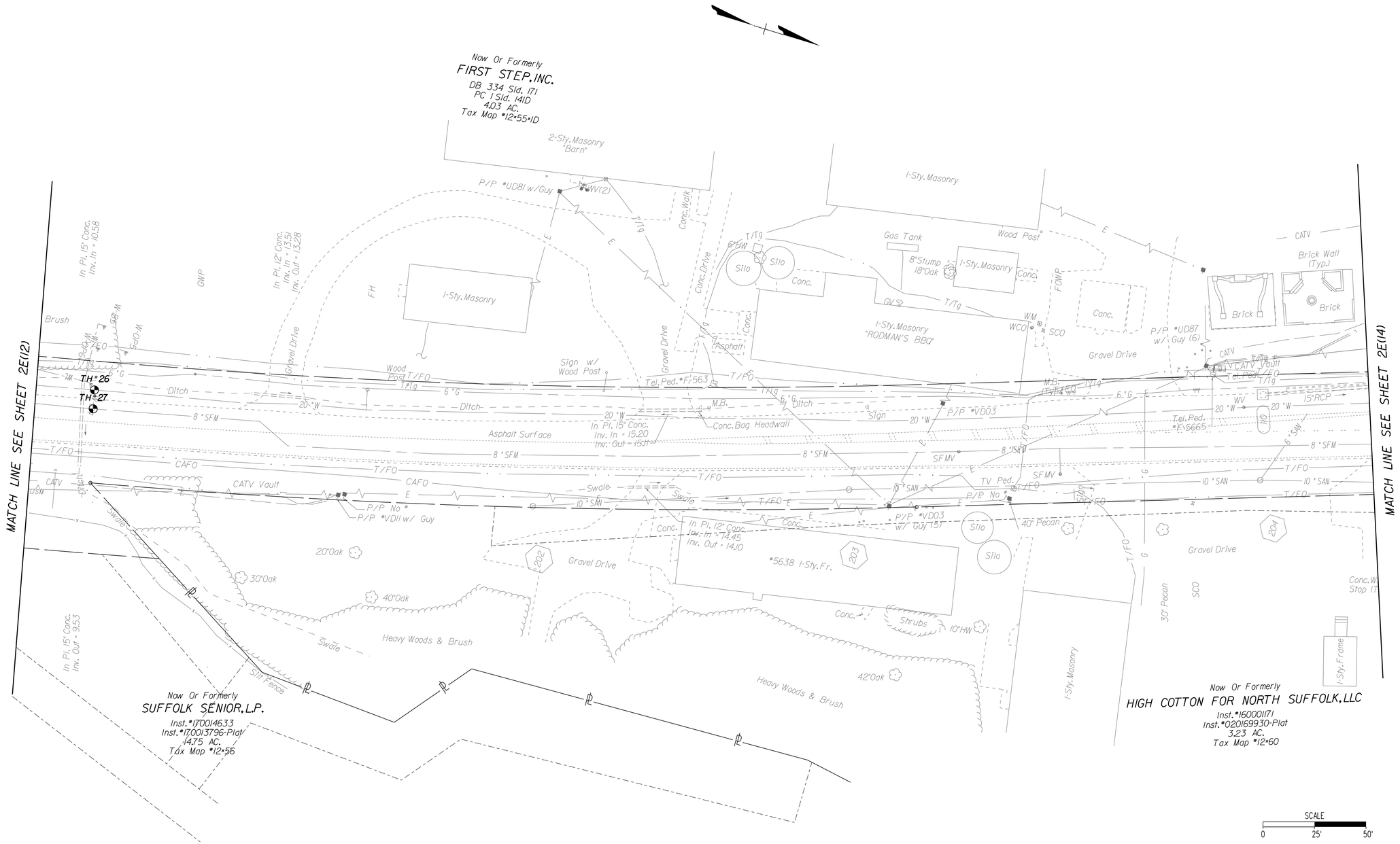

NANSEMOND 1565 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	
M. VELASQUEZ	DESIGNED BY	SHEET NO. 2E(13)
DATE 5/10/19	APPROVED BY	

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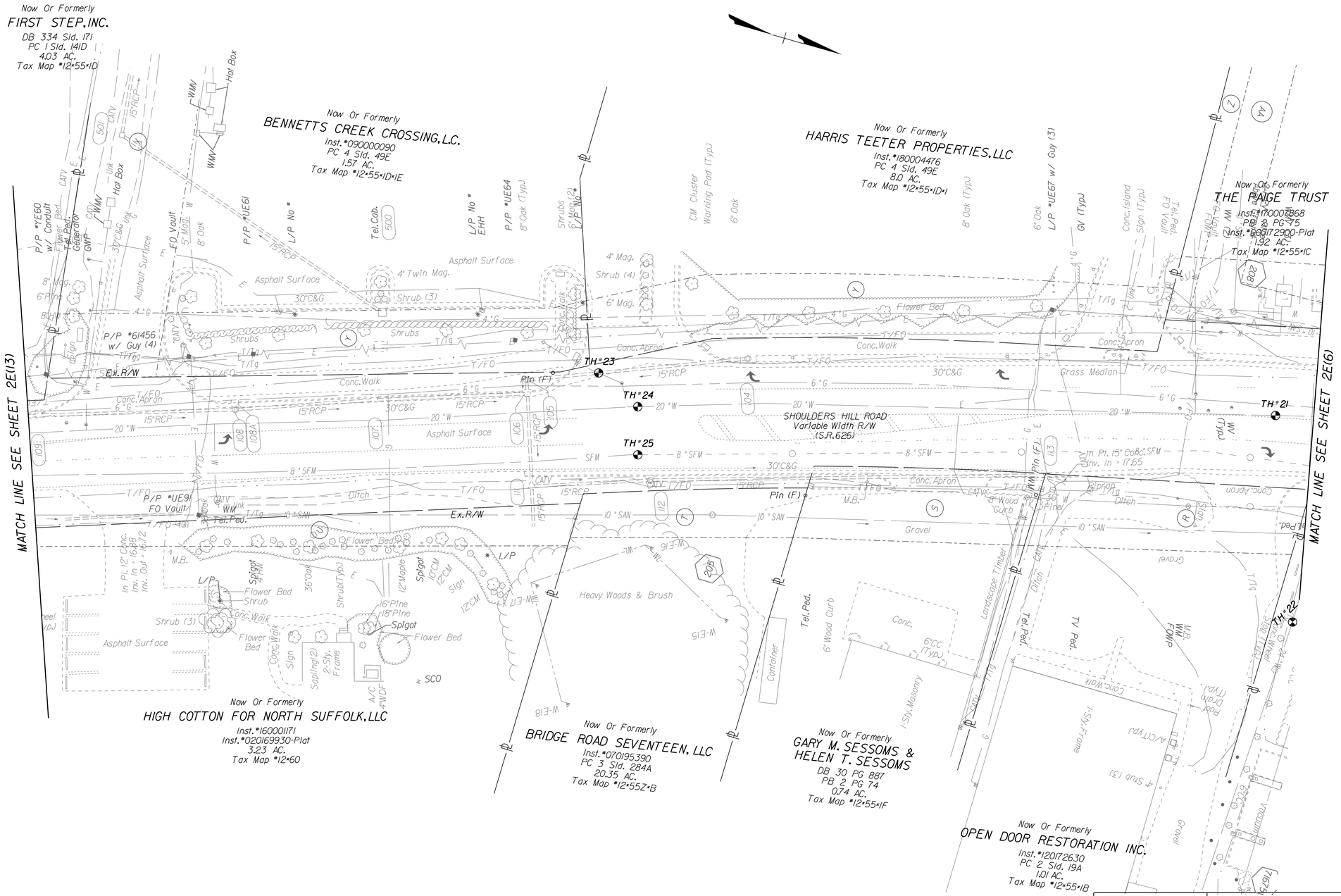

NANSEMOND 1646 SUFFOLK 1742
19 74
CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	
M. VELASQUEZ	DESIGNED BY	SHEET NO. 2E(14)
DATE 5/10/19	APPROVED BY	

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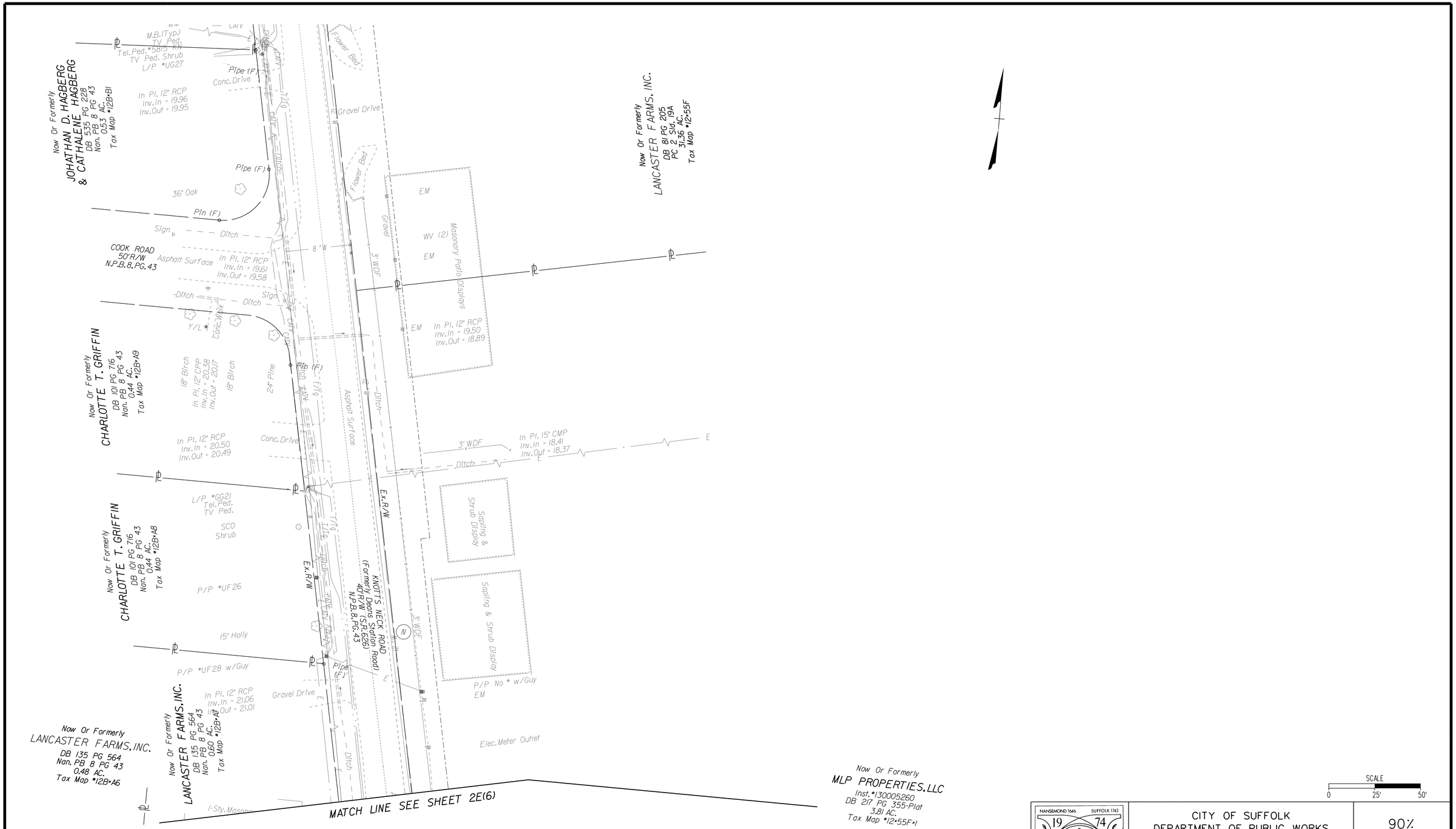

SCALE
0 25' 50'

NANSEMOND 1646 SUFFOLK 1742
19 74
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EXISTING CONDITIONS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	
DESIGNED BY	
APPROVED BY	
SHEET NO.	2E(15)

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UTILITY OWNER INFORMATION

Water / Sanitary Sewer:
City of Suffolk
442 W. Washington Street
2nd Floor
Suffolk, Virginia 23434
Contact : L.J. Hansen
Telephone : 757-514-4355

Gas :
Columbia Gas
7001 Harbour View Blvd.
Suffolk, Virginia 23435
Contact : David Miller
Phone : 757-439-9983

Traffic Control:
City of Suffolk
800 Carolina Road
Suffolk, Virginia 23434
Contact : Robert Lewis
Telephone : 757-514-7706

Proposed Lighting:
City of Suffolk
442 W. Washington Street
2nd Floor
Suffolk, Virginia 23434
Contact : Robert Lewis
Telephone : 757-514-7706

Existing Lighting
Dominion Energy
2700 Cromwell Road
Norfolk, Virginia 23509
Contact : Bobby Wood
Telephone : 252-331-9195

Communication & Fiber :
Cox Communications
5200 Cleveland Street
Virginia Beach, Virginia 23462
Contact : Dave Limos
Phone : 757-222-8344

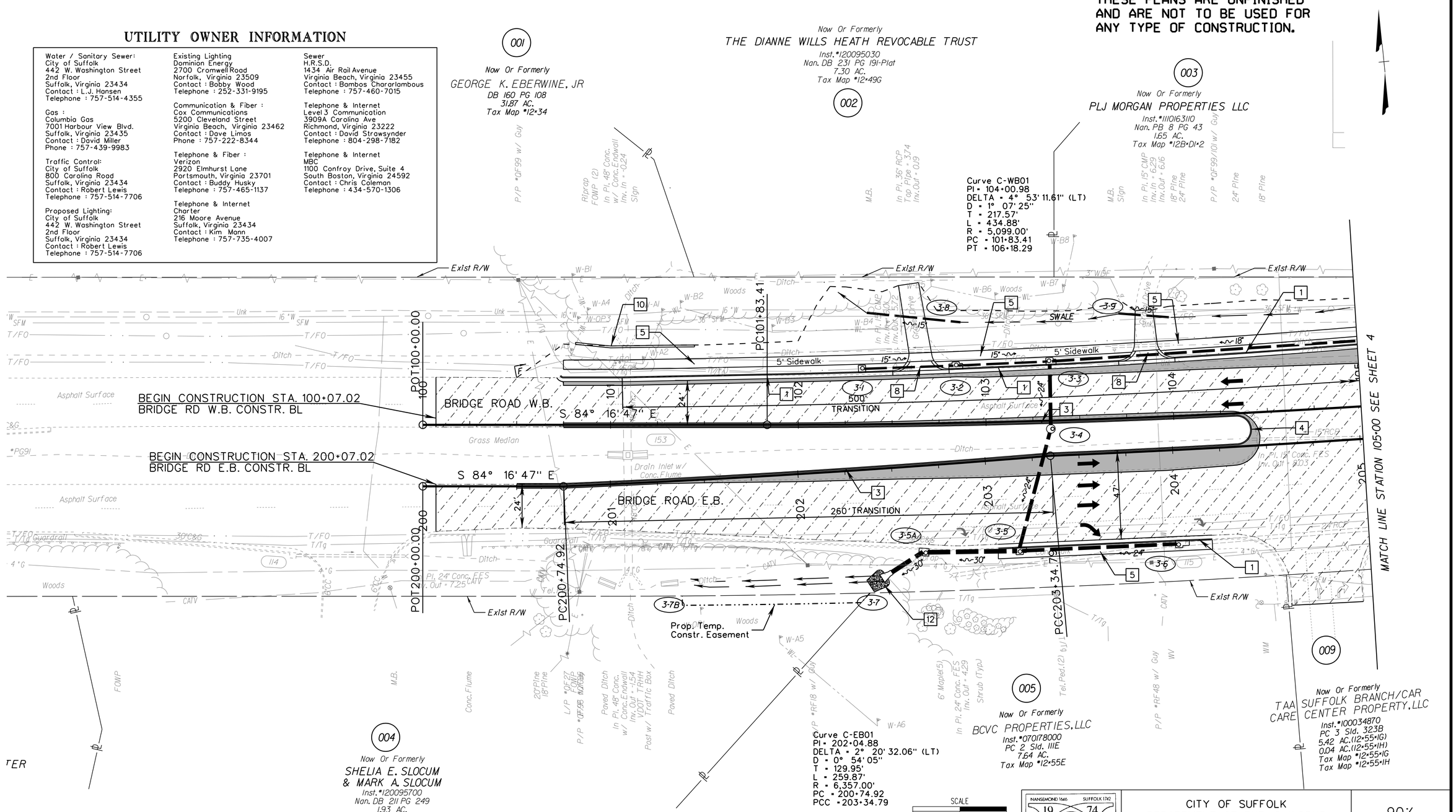
Telephone & Fiber :
Verizon
2920 Elmhurst Lane
Portsmouth, Virginia 23701
Contact : Buddy Husky
Telephone : 757-465-1137

Telephone & Internet
Charter
216 Moore Avenue
Suffolk, Virginia 23434
Contact : Kim Mann
Telephone : 757-735-4007

Sewer
H.R.S.D.
1434 Air Rail Avenue
Virginia Beach, Virginia 23455
Contact : Bambos Chararlambous
Telephone : 757-460-7015

Telephone & Internet
Level 3 Communication
3909A Carolina Ave
Richmond, Virginia 23222
Contact : David Strawsynder
Telephone : 804-298-7182

Telephone & Internet
MBC
1100 Confroy Drive, Suite 4
South Boston, Virginia 24592
Contact : Chris Coleman
Telephone : 434-570-1306



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 100+00 - 105+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 3
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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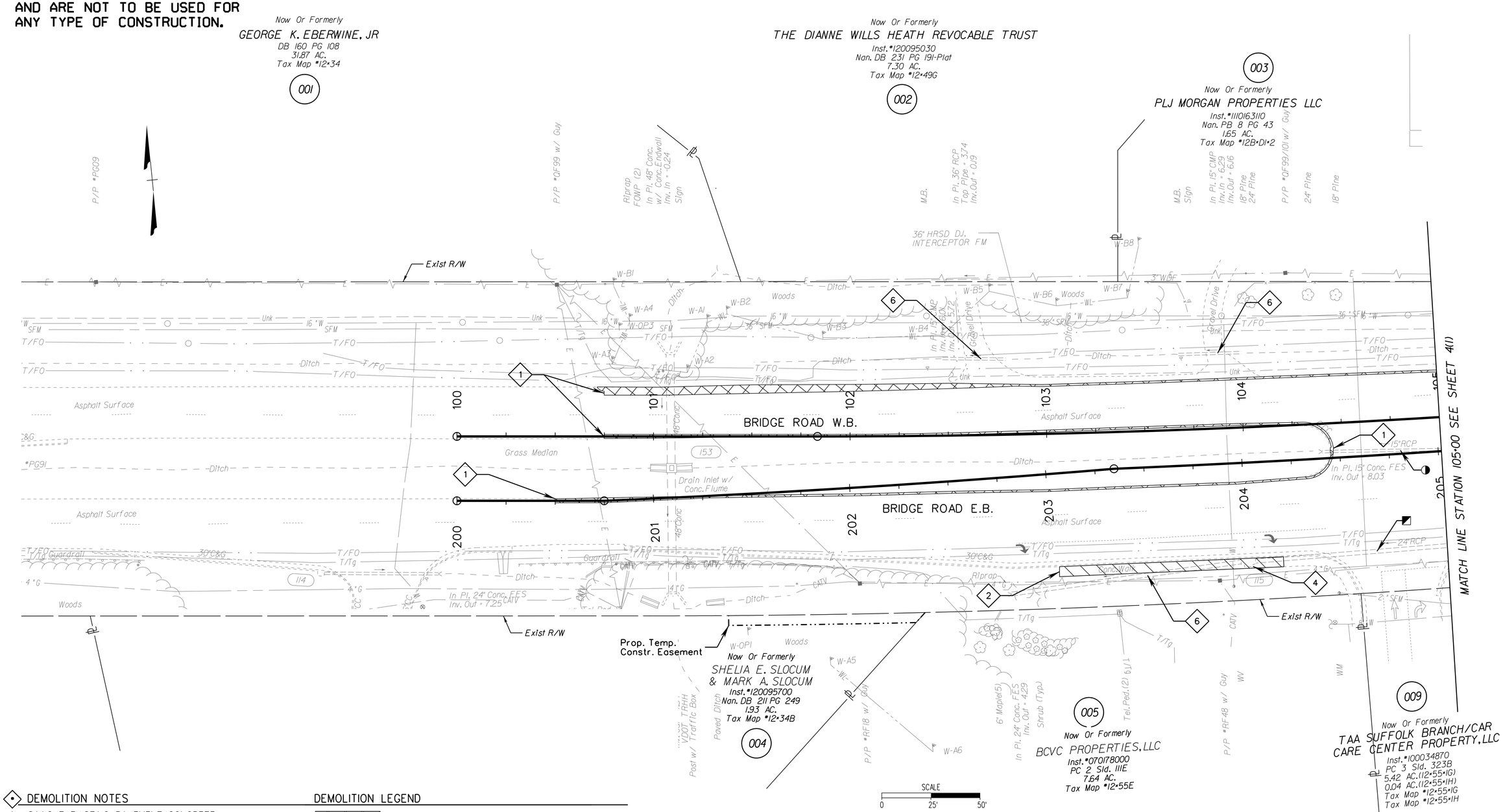

DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 100+00 - 105+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 3(1)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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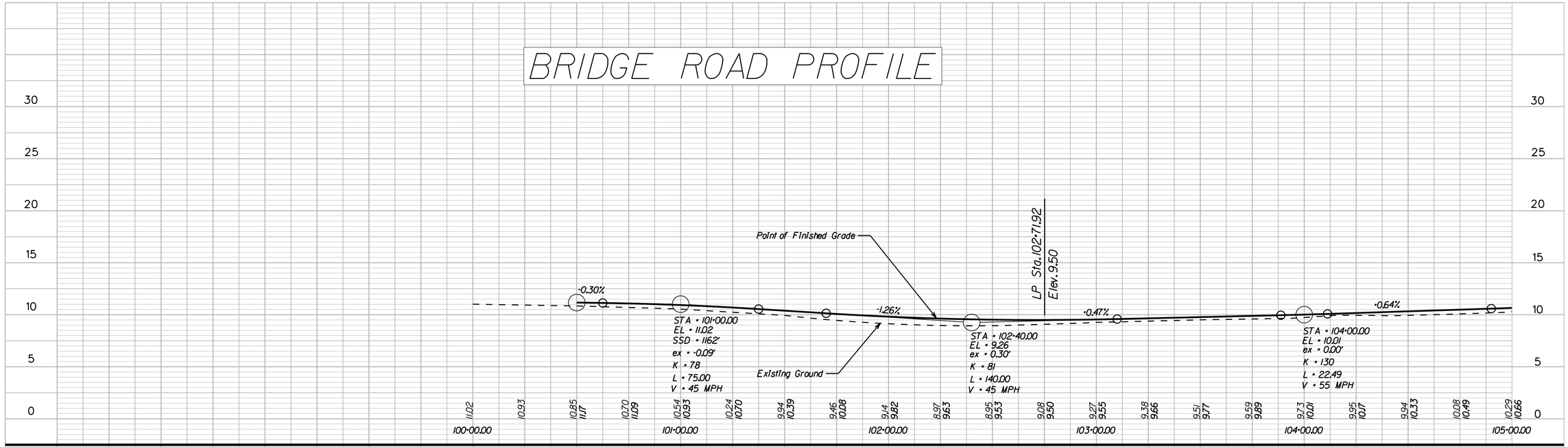
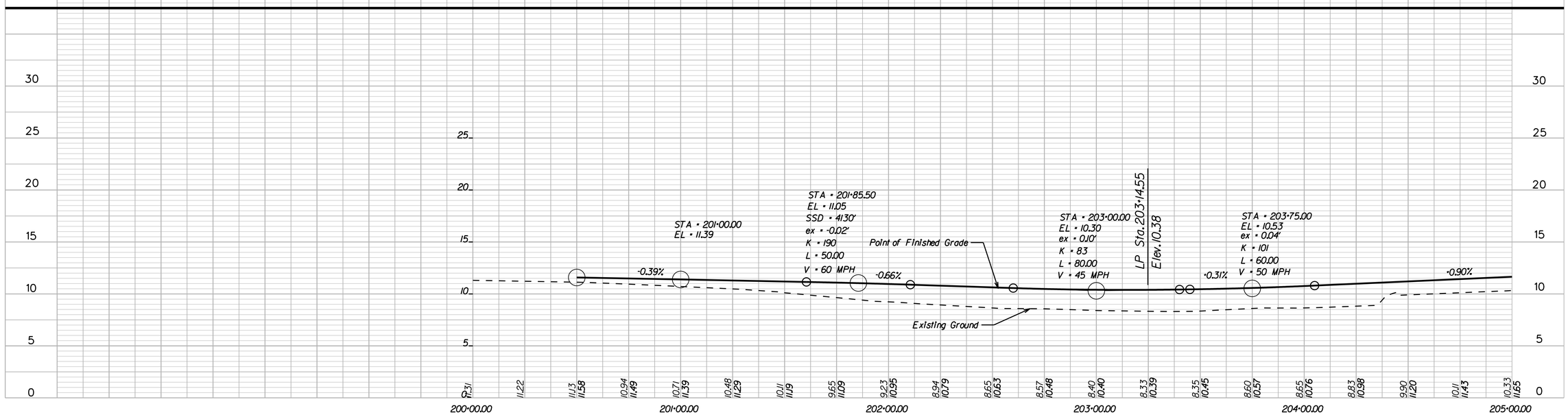
BRIDGE ROAD PROFILE





SCALE: HORIZ - 1" = 25'

VERT - 1" = 5'

SCALE 0 25' 50'

SCALE 0 5' 10'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 100+00 - 105+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 3A

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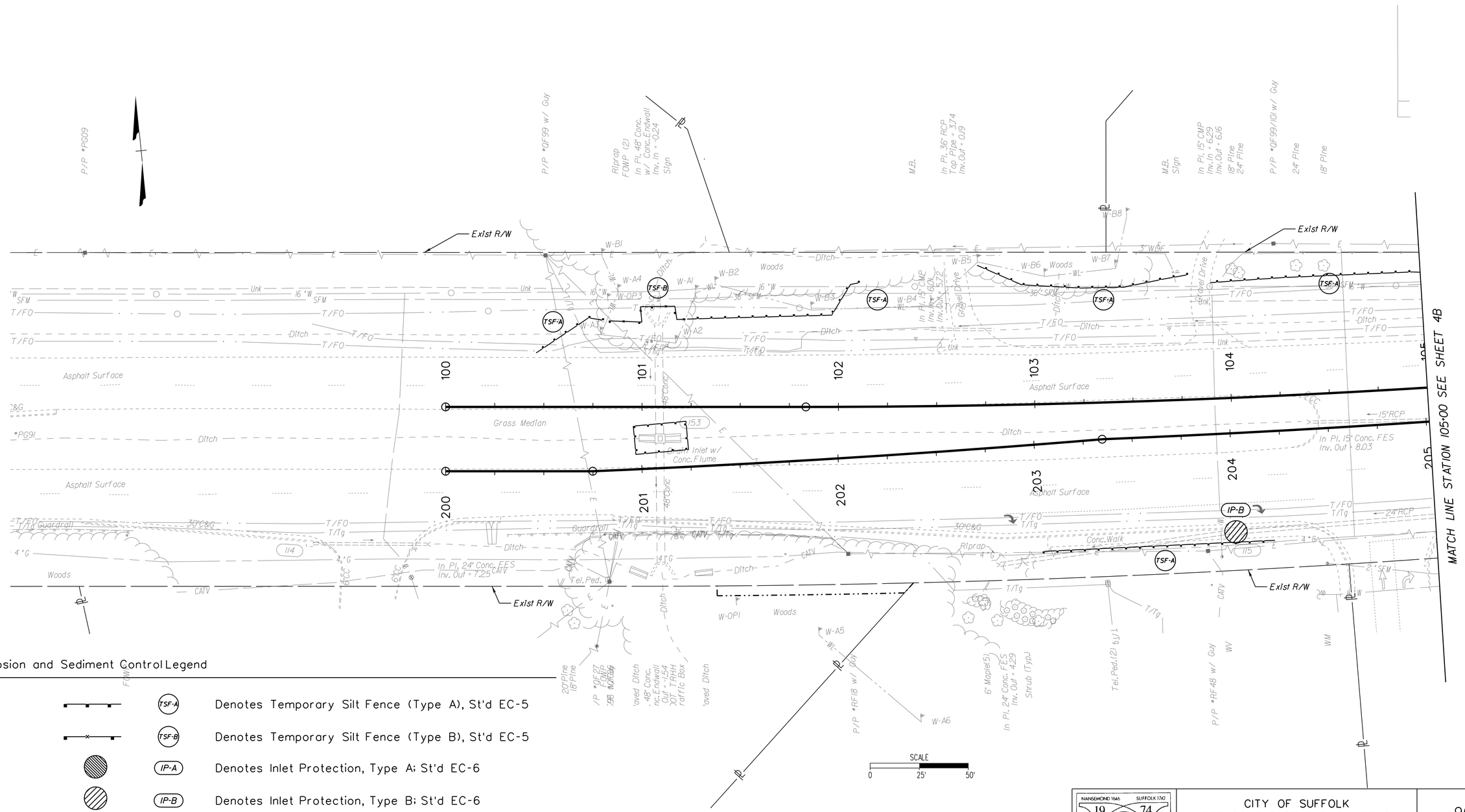

Erosion and Sediment Control Legend

	TSF-A	Denotes Temporary Silt Fence (Type A), St'd EC-5
	TSF-B	Denotes Temporary Silt Fence (Type B), St'd EC-5
	IP-A	Denotes Inlet Protection, Type A; St'd EC-6
	IP-B	Denotes Inlet Protection, Type B; St'd EC-6
	TP	Denotes Tree Protection
	CP	Denotes Culvert Inlet/Outlet Protection
	CE	Denotes Construction Entrance

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 100+00 - 105+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 3B

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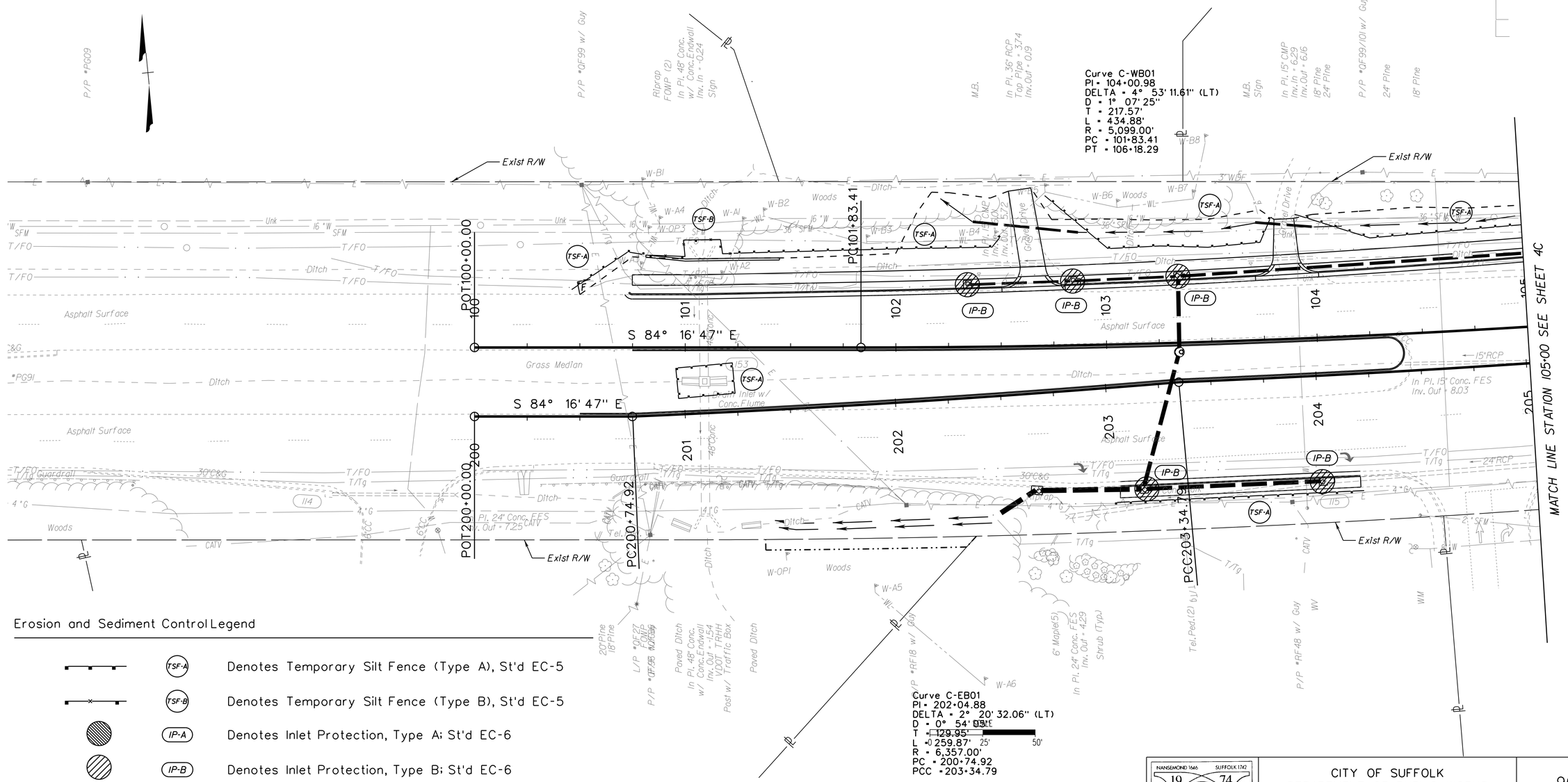

Erosion and Sediment Control Legend

	TSF-A	Denotes Temporary Silt Fence (Type A), St'd EC-5
	TSF-B	Denotes Temporary Silt Fence (Type B), St'd EC-5
	IP-A	Denotes Inlet Protection, Type A; St'd EC-6
	IP-B	Denotes Inlet Protection, Type B; St'd EC-6
	TP	Denotes Tree Protection
	CP	Denotes Culvert Inlet/Outlet Protection
	CE	Denotes Construction Entrance

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 100+00 - 105+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

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Now Or Formerly
GEORGE K. EBERWINE, JR
DB 160 PG 108
31.87 AC.
Tax Map #12-34

001

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

Now Or Formerly
THE DIANNE WILLS HEATH REVOCABLE TRUST
Inst.#120095030
Nan. DB 231 PG 191-Plat
7.30 AC.
Tax Map #12-49G

002

003

Now Or Formerly
PLJ MORGAN PROPERTIES LLC
Inst.#111016311O
Nan. PB 8 PG 43
1.65 AC.
Tax Map #12B-D1-2

PL - CL RAVINE

Curve C-WB01
PI = 104+00.98
DELTA = 4° 53' 11.61" (LT)
D = 1° 07' 25"
T = 217.57'
L = 434.88'
R = 5,099.00'
PC = 101+83.41
PT = 106+18.29

Ex.R/W

Exist R/W

POT100+00.00

PC101+83.41

100 101 102 103 104 105

BRIDGE ROAD W.B.

S 84° 16' 47" E

S 84° 16' 47" E

BRIDGE ROAD E.B.

200 201 202 203 204 205

POT200+00.00

PC200+74.92

PCC203+34.79

MATCH LINE STATION 105+00 SEE SHEET 4RW

Exist R/W

Exist R/W

Prop. Temp.
Constr. Easement

Curve C-EB01
PI = 202+04.88
DELTA = 2° 20' 32.06" (LT)
D = 0° 54' 05"
T = 129.95'
L = 259.87'
R = 6,357.00'
PC = 200+74.92
PCC = 203+34.79

004

Now Or Formerly
SHELIA E. SLOCUM
& MARK A. SLOCUM
Inst.#120095700
Nan. DB 211 PG 249
1.93 AC.
Tax Map #12-34B

005

Now Or Formerly
BCVC PROPERTIES, LLC
Inst.#070178000
PC 2 Sld. 111E
7.64 AC.
Tax Map #12-55E

009

Now Or Formerly
TAA SUFFOLK BRANCH/CAR
CARE CENTER PROPERTY, LLC
Inst.#100034870
PC 3 Sld. 323B
5.42 AC.(12-55-1G)
0.04 AC.(12-55-1H)
Tax Map #12-55-1G
Tax Map #12-55-1H

SCALE
0 25' 50'

NANSEMOND 1646 SUFFOLK 1742
19 74
CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 100+00 - 105+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 3RW

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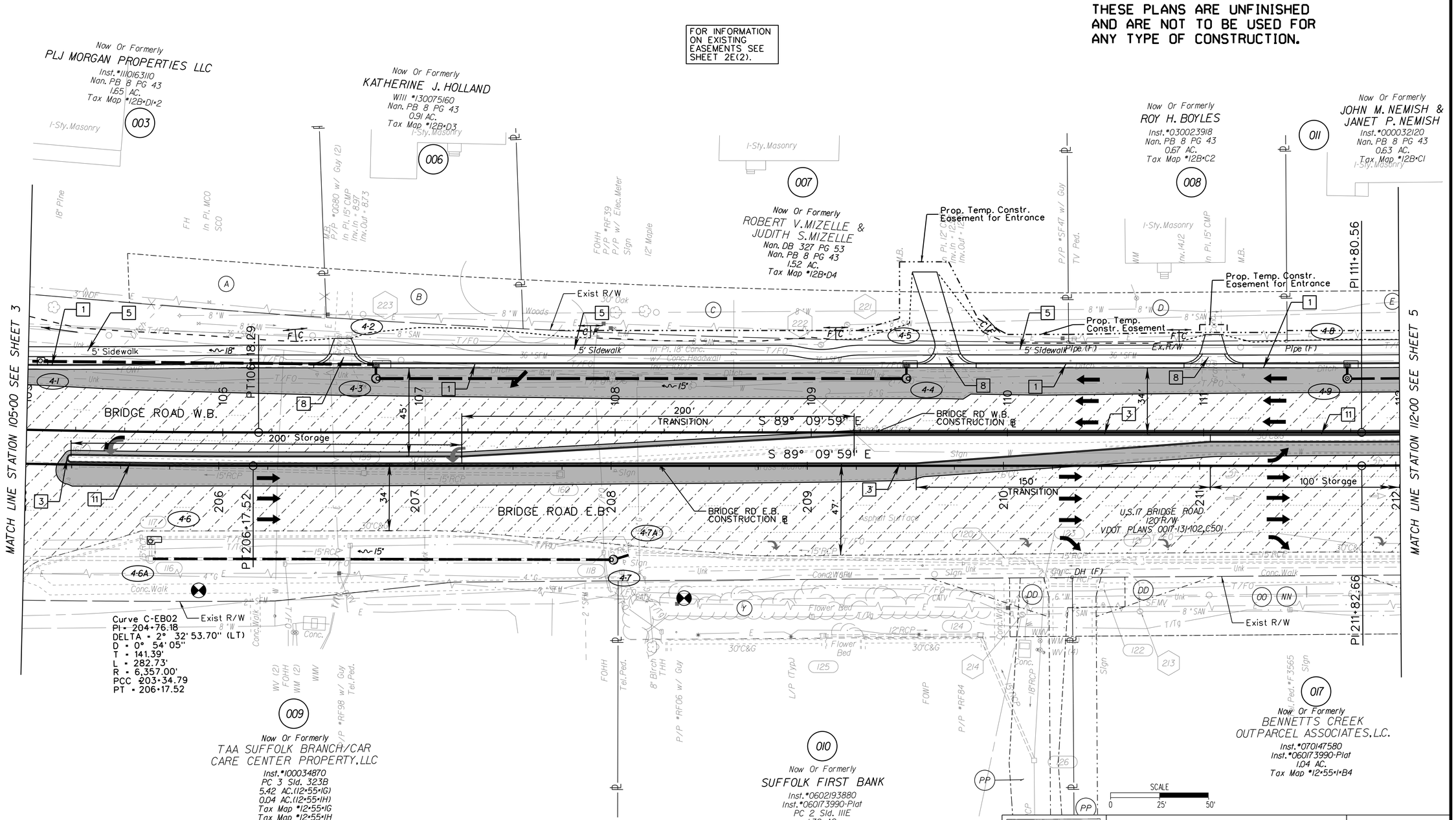
FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 105+00 - 112+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 4

3:58:39 PM
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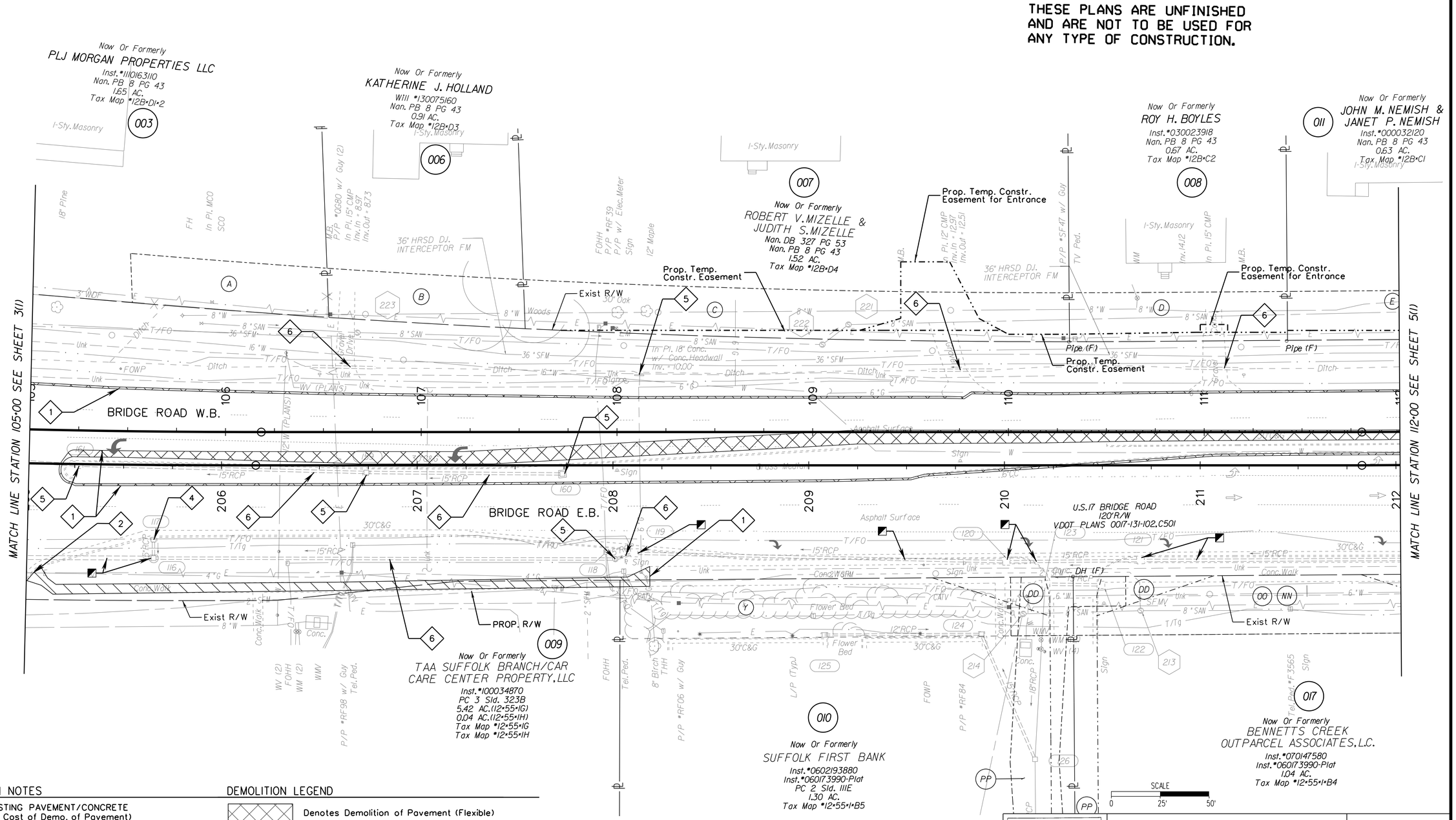
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 105+00 - 112+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 4(1)
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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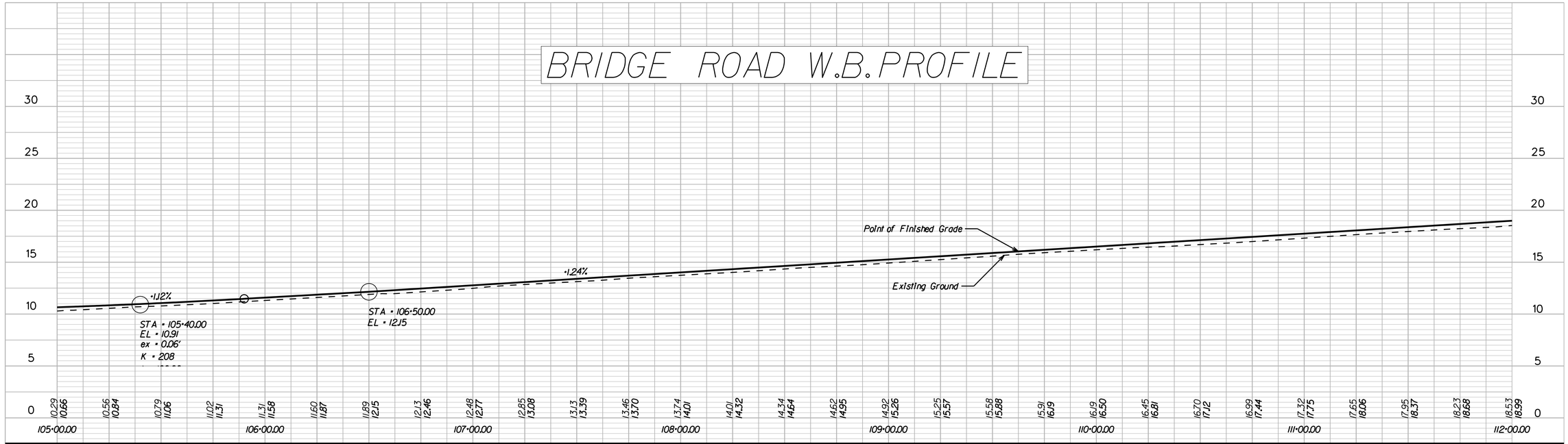
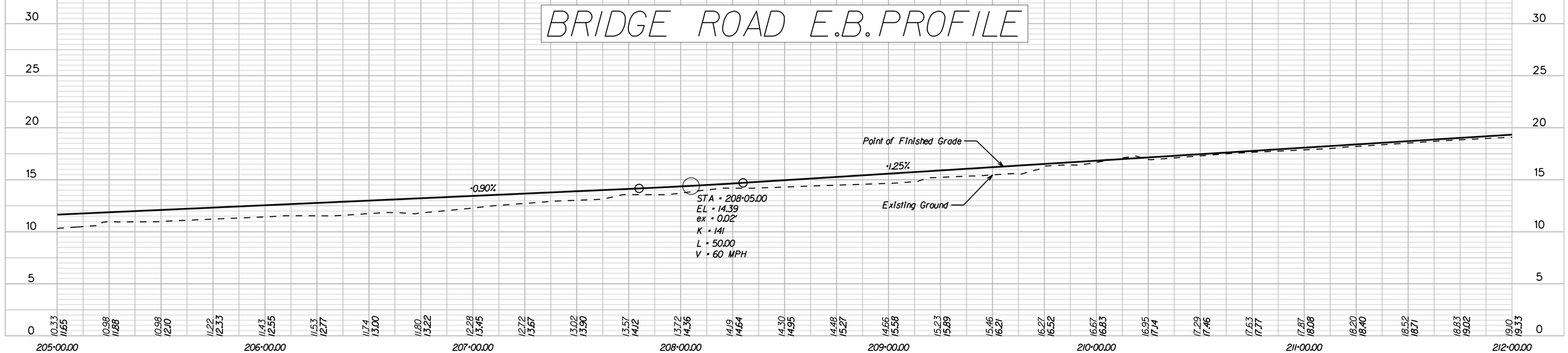
BRIDGE ROAD W.B. PROFILE



BRIDGE ROAD E.B. PROFILE



SCALE: HORIZ - 1" = 25' (SCALE 0 25' 50')

VERT - 1" = 5' (SCALE 0 5' 10')

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 105+00 - 112+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 4A

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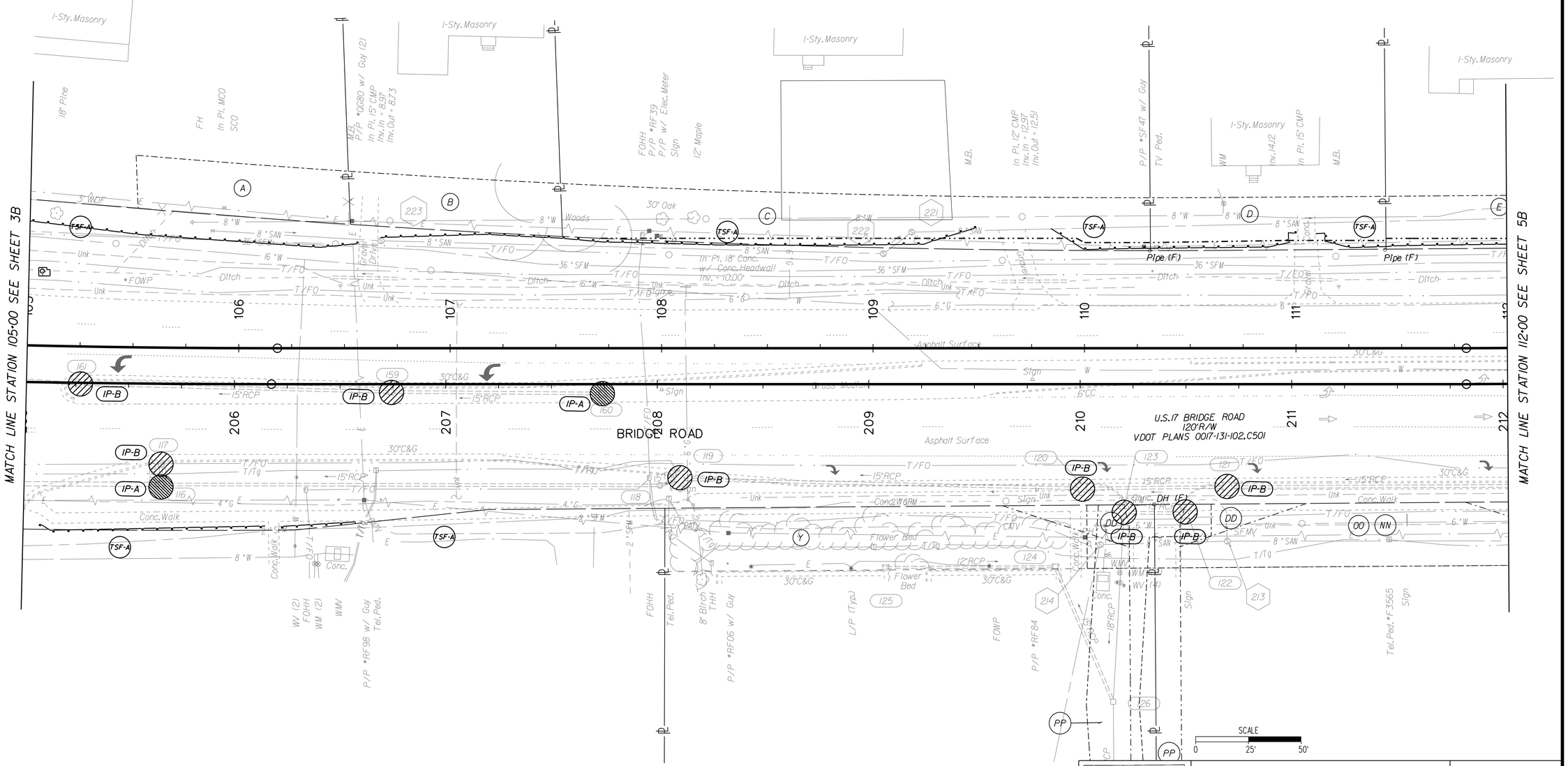
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 105+00 - 112+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	4B		

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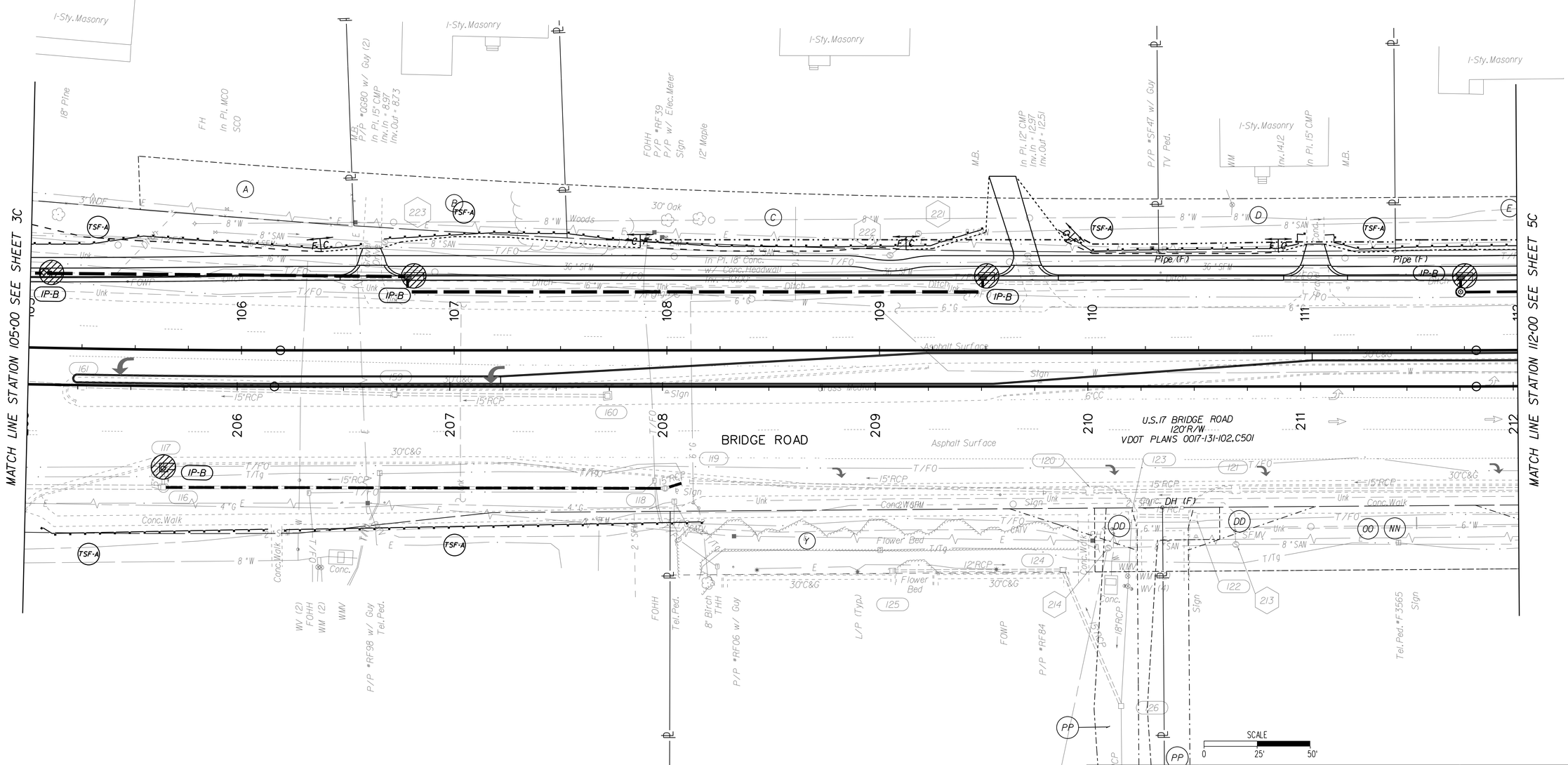
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 105+00 - 112+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 4C
DATE 5/10/19	APPROVED BY	WMP	

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

Now Or Formerly
PLJ MORGAN PROPERTIES LLC
Inst.#110163110
Nan. PB 8 PG 43
1.65 AC.
Tax Map #12B-D1-2
003

Now Or Formerly
KATHERINE J. HOLLAND
Will #130075160
Nan. PB 8 PG 43
0.91 AC.
Tax Map #12B-D3
006

Now Or Formerly
ROBERT V. MIZELLE & JUDITH S. MIZELLE
Nan. DB 327 PG 53
Nan. PB 8 PG 43
1.52 AC.
Tax Map #12B-D4
007

Now Or Formerly
ROY H. BOYLES
Inst.#030023918
Nan. PB 8 PG 43
0.67 AC.
Tax Map #12B-C2
008

Now Or Formerly
JOHN M. NEMISH & JANET P. NEMISH
Inst.#000032120
Nan. PB 8 PG 43
0.63 AC.
Tax Map #12B-C1
011

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT

Prop. Temp. Constr. Easmt. For Entrance

Prop. Temp. Constr. Easmt. For Entrance

Prop. Temp. Constr. Easement

Prop. Temp. Constr. Easement

Exist R/W

PT106+18.29

PI 111+80.56

Pipe (F)

Pipe (F)

MATCH LINE STATION 105+00 SEE SHEET 3RW

MATCH LINE STATION 112+00 SEE SHEET 5RW

BRIDGE ROAD W.B.

S 89° 09' 59" E

BRIDGE RD W.B. CONSTRUCTION ℄

S 89° 09' 59" E

BRIDGE ROAD E.B.

BRIDGE RD E.B. CONSTRUCTION ℄

U.S.17 BRIDGE ROAD
120'R/W
VDOT PLANS 0017-131-102,C501

PT206+17.52

PI 211+82.66

Exist R/W

Exist R/W

DH (F)

Curve C-EB02
PI = 204+76.18
DELTA = 2° 32' 53.70" (LT)
D = 0° 54' 05"
T = 141.39'
L = 282.73'
R = 6,357.00'
PCC 203+34.79
PT = 206+17.52

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT

009
Now Or Formerly
TAA SUFFOLK BRANCH/CAR CARE CENTER PROPERTY, LLC
Inst.#100034870
PC 3 Sld. 323B
5.42 AC.(12-55-1G)
0.04 AC.(12-55-1H)
Tax Map #12-55-1G
Tax Map #12-55-1H

010
Now Or Formerly
SUFFOLK FIRST BANK
Inst.#060219388O
Inst.#060173990-Plat
PC 2 Sld. 111E
1.30 AC.
Tax Map #12-55-1-B5

017
Now Or Formerly
BENNETTS CREEK OUTPARCEL ASSOCIATES, L.C.
Inst.#070147580
Inst.#060173990-Plat
1.04 AC.
Tax Map #12-55-1-B4

SCALE 0 25' 50'

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 105+00 - 112+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 4RW

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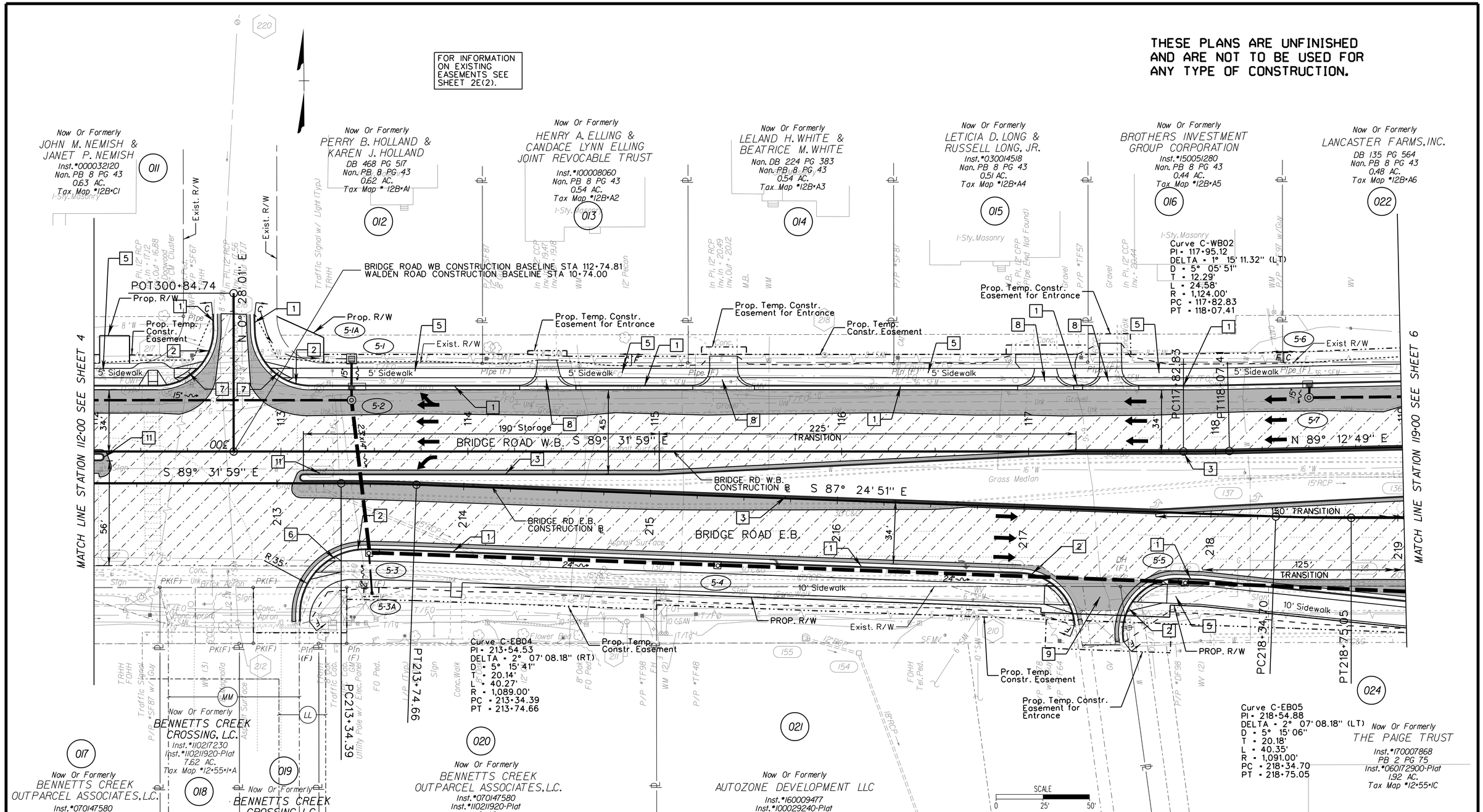
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 112+00 - 119+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 5

3:58:46 PM
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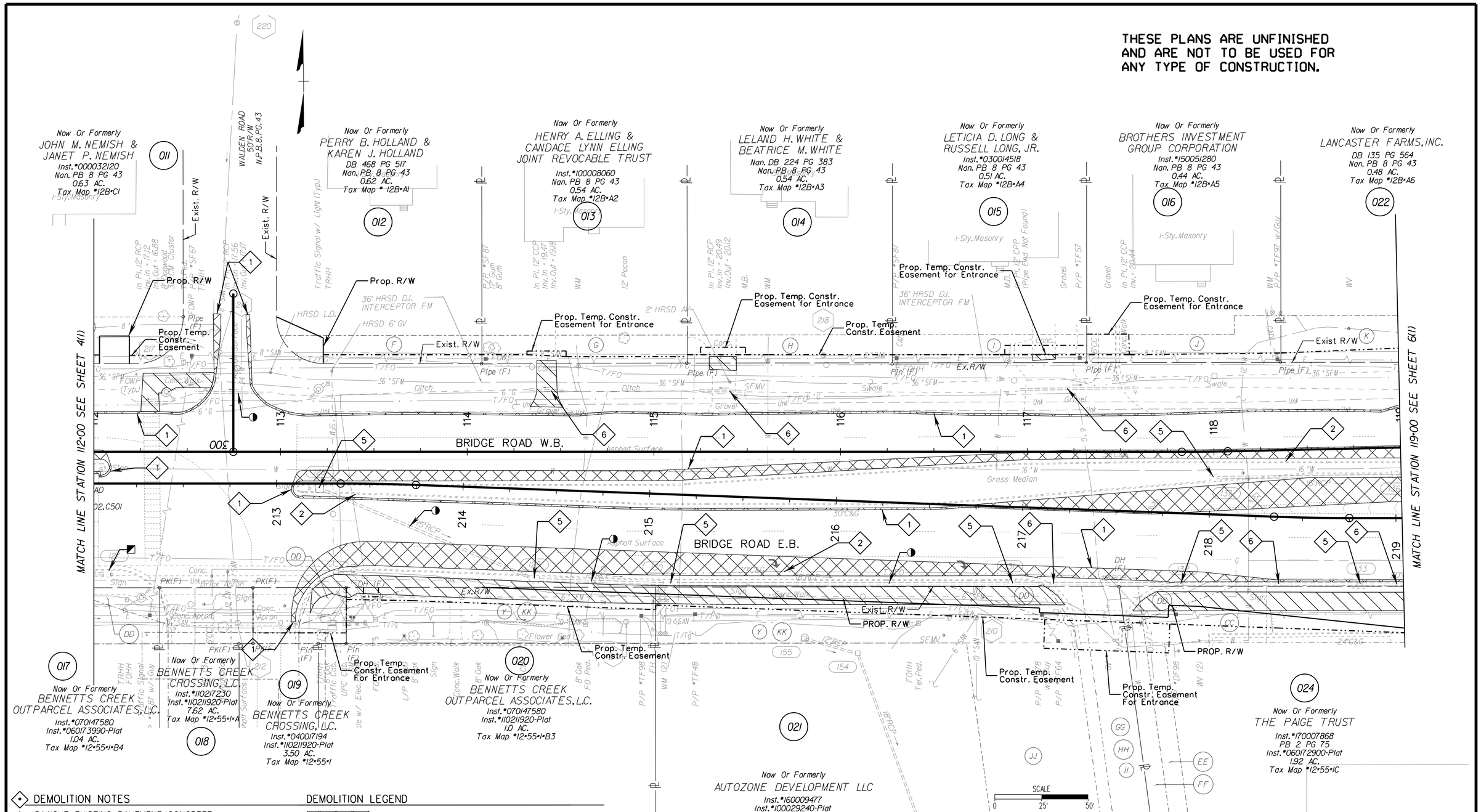
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 112+00 - 119+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	5(1)		

3:58:58 PM
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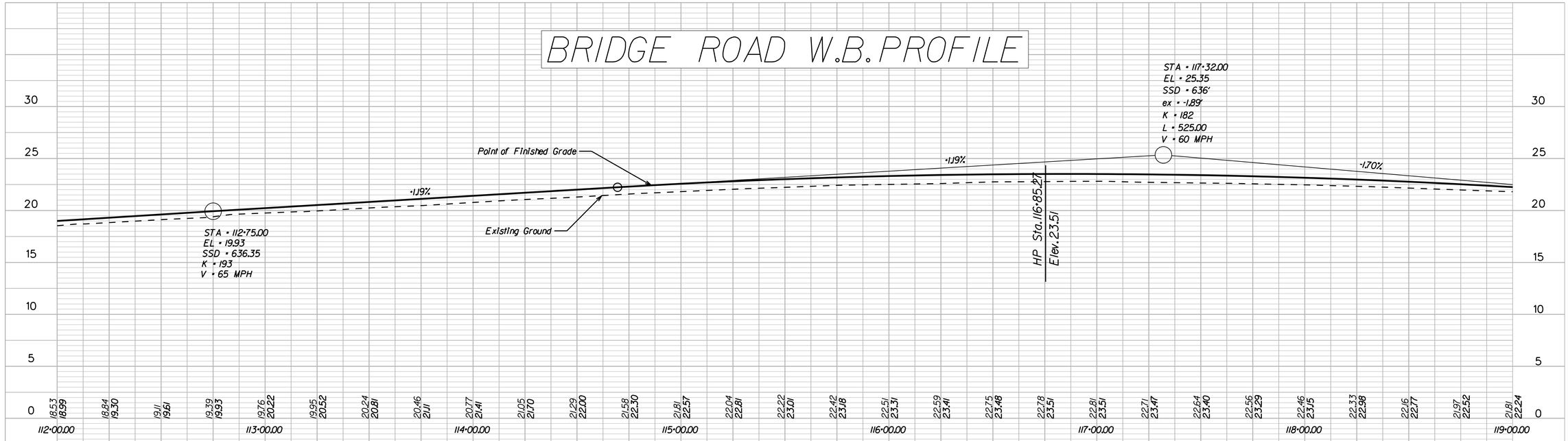
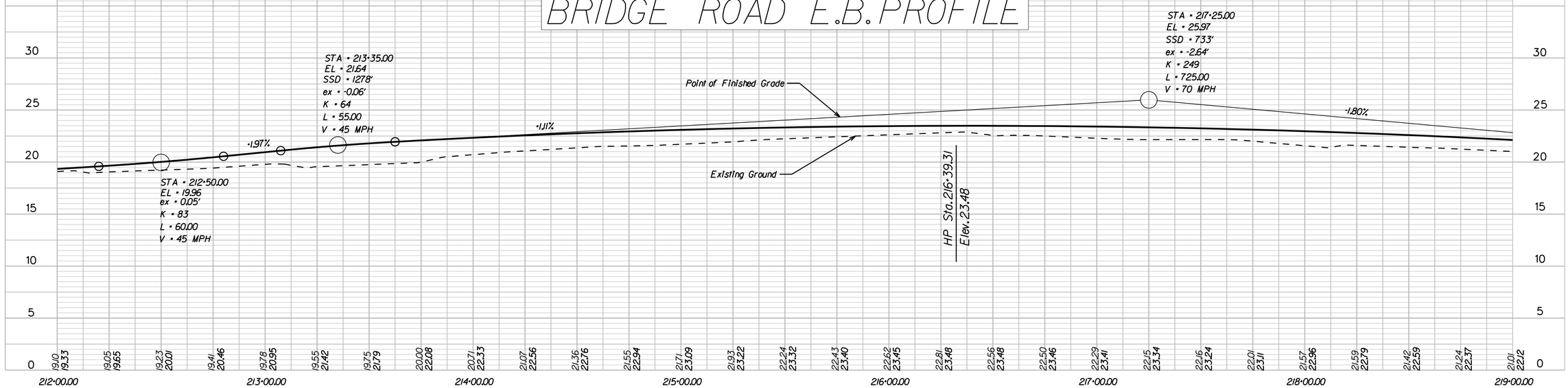
BRIDGE ROAD W.B. PROFILE



BRIDGE ROAD E.B. PROFILE



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1666 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 112+00 - 119+00

90% PRELIMINARY PLANS

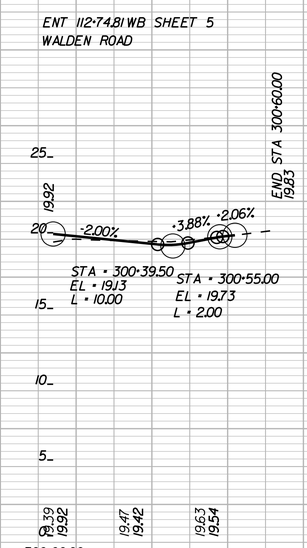
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 5A
DATE 5/10/19	APPROVED BY	WMP	

3:58:59 PM
I:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\69050\69050 Sheets\d69050005.dgn

WALDEN ROAD ENTRANCE PROFILE



SCALE: HORIZ - 1" = 25' (SCALE 0 25' 50')

VERT - 1" = 5' (SCALE 0 5' 10')

NANSEMOND 1646 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PROFILE STA 300+00 TO 300+60		
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ	DRAWN BY: MSM	
		DESIGNED BY: MSM	SHEET NO. 5A(1)
	DATE: 5/10/19	APPROVED BY: WMP	

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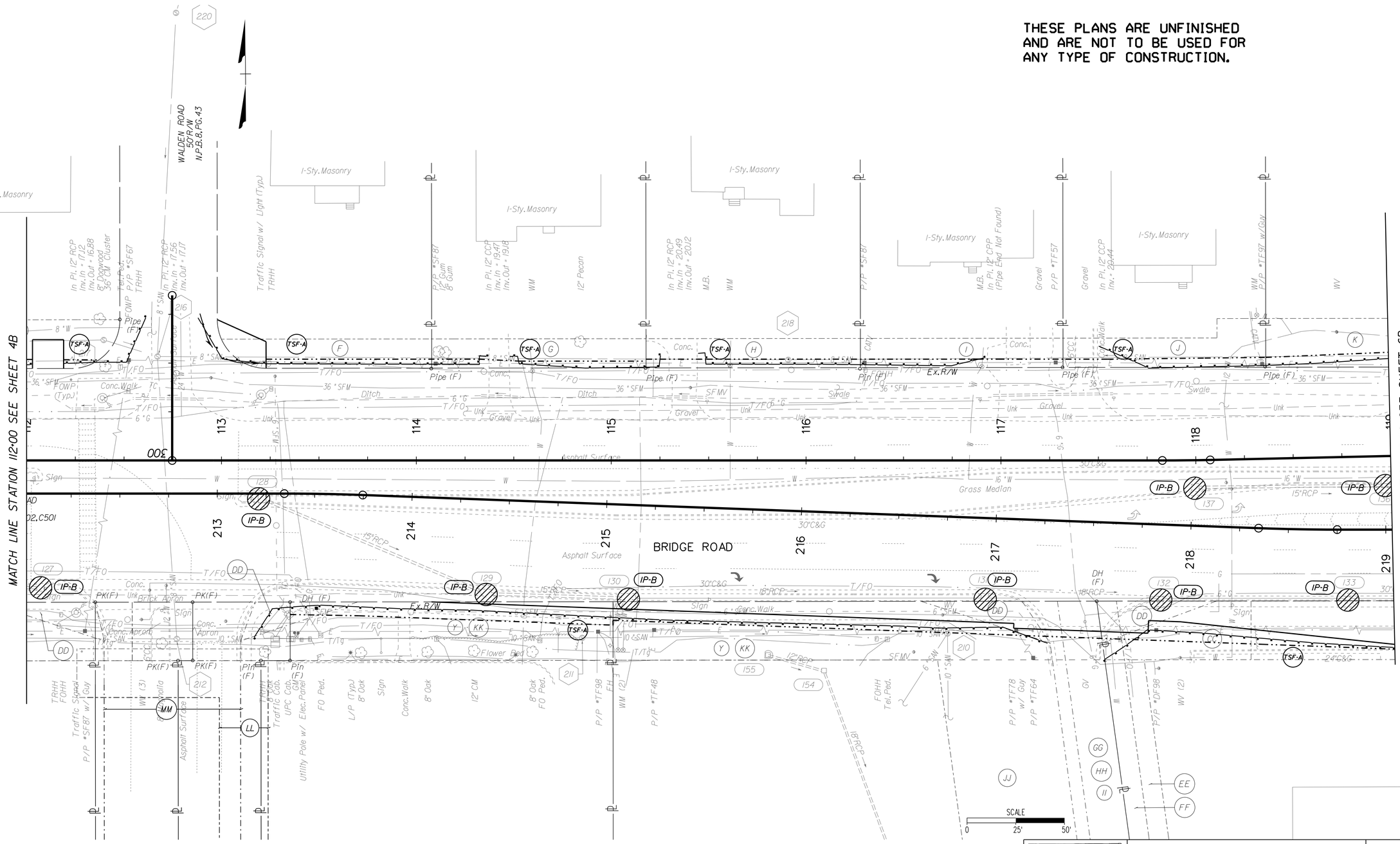
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 112+00 - 119+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	5B		

3:59:01 PM
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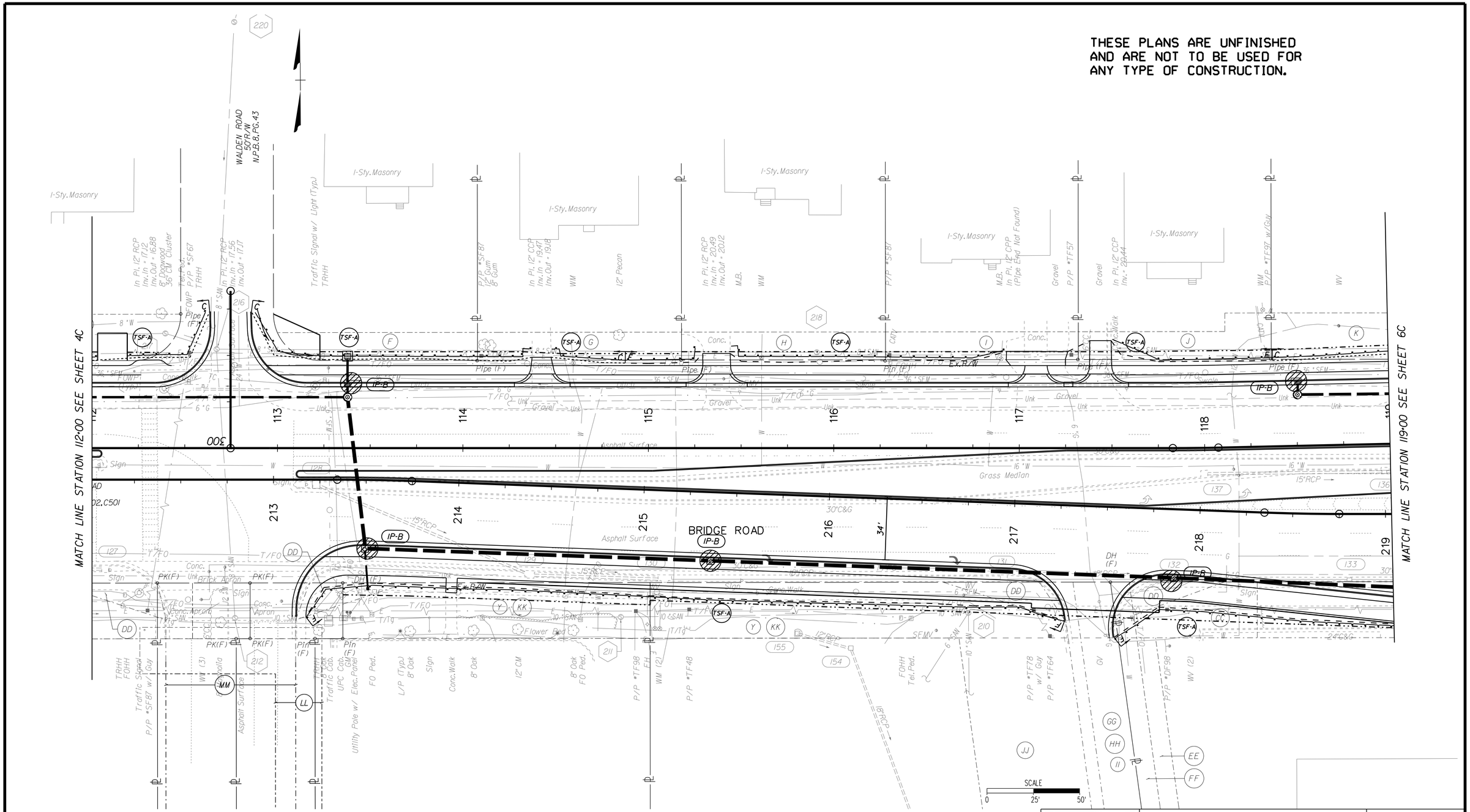
THESE PLANS ARE UNFINISHED
AND ARE NOT TO BE USED FOR
ANY TYPE OF CONSTRUCTION.



NANSEMOND 1646 SUFFOLK 1742
19 74
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 112+00 - 119+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 5C
DATE 5/10/19	APPROVED BY	WMP	

3:59:02 PM
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THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

Now Or Formerly
JOHN M. NEMISH & JANET P. NEMISH
Inst.#000032120
Nan. PB 8 PG 43
0.63 AC.
Tax Map #12B-C1
011

WALDEN ROAD 50'R/W N.P.B.8.PG.43

Now Or Formerly
PERRY B. HOLLAND & KAREN J. HOLLAND
DB 468 PG 517
Nan. PB 8 PG 43
0.62 AC.
Tax Map # 12B-A1
012

Now Or Formerly
HENRY A. ELLING & CANDACE LYNN ELLING JOINT REVOCABLE TRUST
Inst.#100008060
Nan. PB 8 PG 43
0.54 AC.
Tax Map #12B-A2
013

Now Or Formerly
LELAND H. WHITE & BEATRICE M. WHITE
Nan. DB 224 PG 383
Nan. PB 8 PG 43
0.54 AC.
Tax Map #12B-A3
014

Now Or Formerly
LETICIA D. LONG & RUSSELL LONG, JR.
Inst.#030014518
Nan. PB 8 PG 43
0.51 AC.
Tax Map #12B-A4
015

Now Or Formerly
BROTHERS INVESTMENT GROUP CORPORATION
Inst.#150051280
Nan. PB 8 PG 43
0.44 AC.
Tax Map #12B-A5
016

Now Or Formerly
LANCASTER FARMS, INC.
DB 135 PG 564
Nan. PB 8 PG 43
0.48 AC.
Tax Map #12B-A6
022

Exist. R/W
RIGHT-OF-WAY TO BE ACQUIRED
POT300+84.74
N 0° 28' 01" E
Pipe (F)
Prop. Temp. Constr. Easement
Prop. Temp. Constr. Easmt. For Entrance
Exist. R/W
Pipe (F)
Pin (F)
Ex.R/W
Exist R/W
Curve C-WB02
PI = 117+95.12
DELTA = 1° 15' 11.32" (LT)
D = 5° 05' 51"
T = 12.29'
L = 24.58'
R = 1,124.00'
PC = 117+82.83
PT = 118+07.41
PC117+82.83
PT118+07.41
MATCH LINE STATION 112+00 SEE SHEET 4RW
MATCH LINE STATION 119+00 SEE SHEET 6RW
300
112
113
114
115
116
117
118
119
BRIDGE ROAD W.B. S 89° 31' 59" E
N 89° 12' 49" E
S 89° 31' 59" E
BRIDGE RD W.B. CONSTRUCTION ℄
S 87° 24' 51" E
U.S.17 BRIDGE ROAD 120'R/W VDOT PLANS 0017-131-102,C501
BRIDGE RD E.B. CONSTRUCTION ℄
BRIDGE ROAD E.B.
213
214
215
216
217
218
219
Prop. Temp. Constr. Easmt. For Entrance
Exist. R/W
RIGHT-OF-WAY TO BE ACQUIRED
Ex.R/W
Prop. Temp. Constr. Easement
Curve C-EB04
PI = 213+54.53
DELTA = 2° 07' 08.18" (RT)
D = 5° 15' 41"
T = 20.14'
L = 40.27'
R = 1,089.00'
PC = 213+34.39
PT = 213+74.66
PC213+34.39
PT213+74.66
PC218+34.70
PT218+75.05
5' WIDTH DRAINAGE EASEMENT TO BE ACQUIRED
Curve C-EB05
PI = 218+54.88
DELTA = 2° 07' 08.18" (LT)
D = 5° 15' 06"
T = 20.18'
L = 40.35'
R = 1,091.00'
PC = 218+34.70
PT = 218+75.05
SCALE 0 25' 50'

017
Now Or Formerly
BENNETTS CREEK OUTPARCEL ASSOCIATES, L.C.
Inst.#070147580
Inst.#060173990-Plat
1.04 AC.
Tax Map #12-55-1-B4

020
Now Or Formerly
BENNETTS CREEK OUTPARCEL ASSOCIATES, L.C.
Inst.#070147580
Inst.#110211920-Plat
1.0 AC.
Tax Map #12-55-1-B3

021
Now Or Formerly
AUTOZONE DEVELOPMENT LLC
Inst.#160009477
Inst.#100029240-Plat
1.41 AC.
Tax Map #12-55-1-B2

024
Now Or Formerly
THE PAIGE TRUST
Inst.#170007868
PB 2 PG 75
Inst.#060172900-Plat
1.92 AC.
Tax Map #12-55-1C

Now Or Formerly
BENNETTS CREEK CROSSING, L.C.
Inst.#110217230
Inst.#110211920-Plat
7.62 AC.
Tax Map #12-55-1-A
018

Now Or Formerly
BENNETTS CREEK CROSSING, L.C.
Inst.#040017194
Inst.#110211920-Plat
3.50 AC.
Tax Map #12-55-1
019

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 112+00 - 119+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 5RW

3.59903 PM
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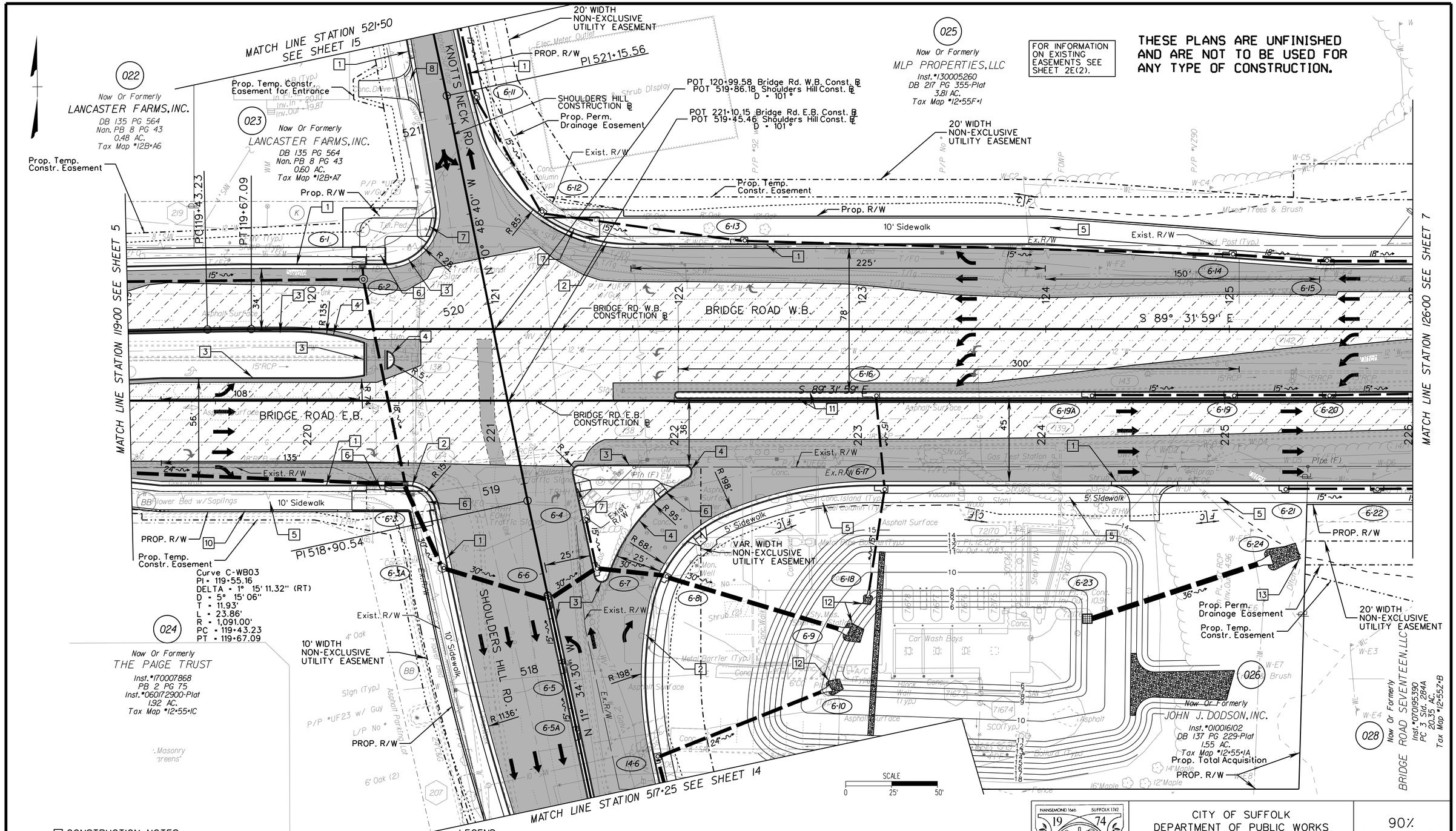
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 119+00 - 126+00 :
STA 517+25 - 521+50

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	MSM
DESIGNED BY	MSM
APPROVED BY	WMP
SHEET NO.	6

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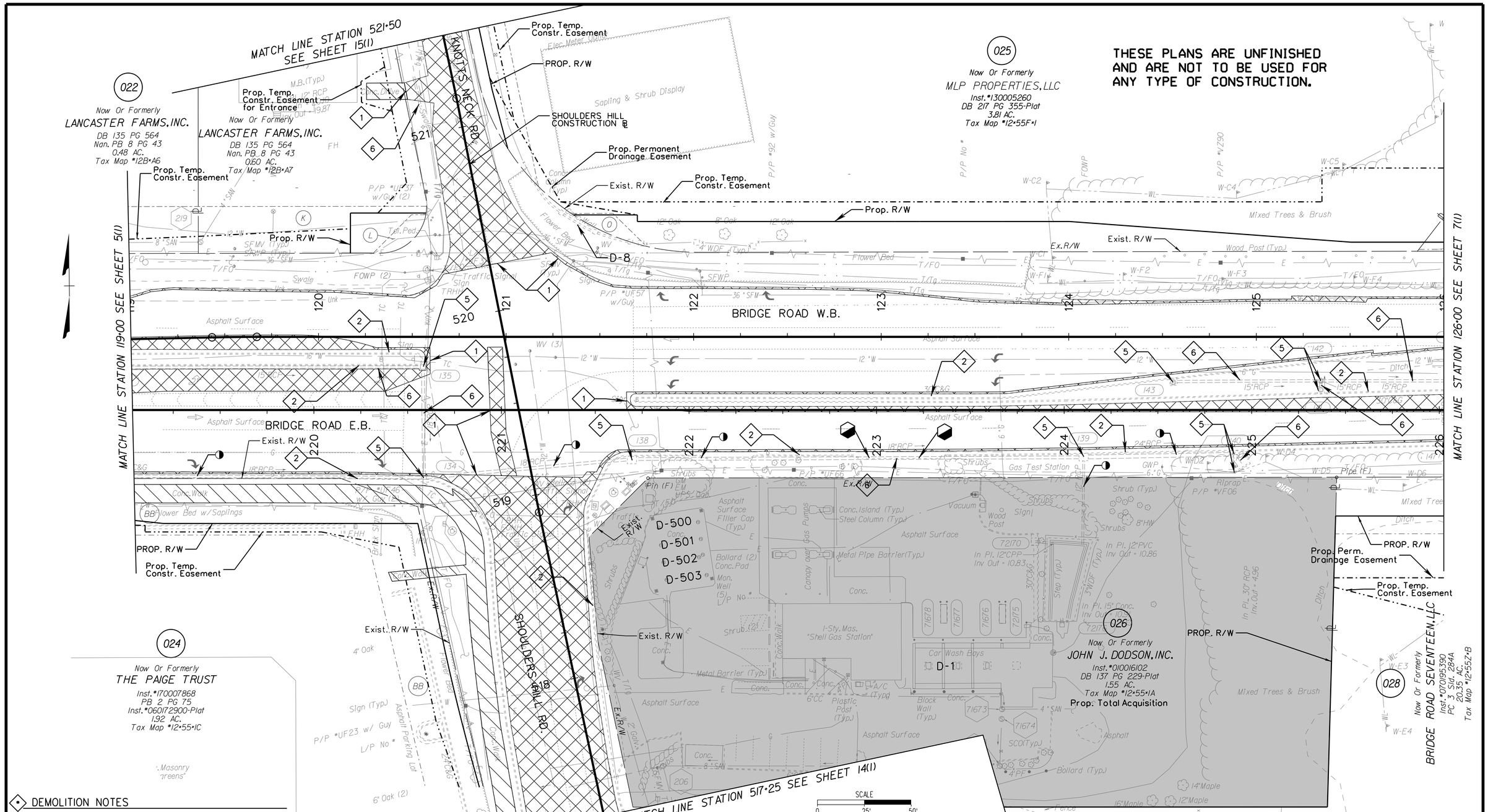

DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN STA 119+00 - 126+00
STA 517+25 - 521+50

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 6(1)

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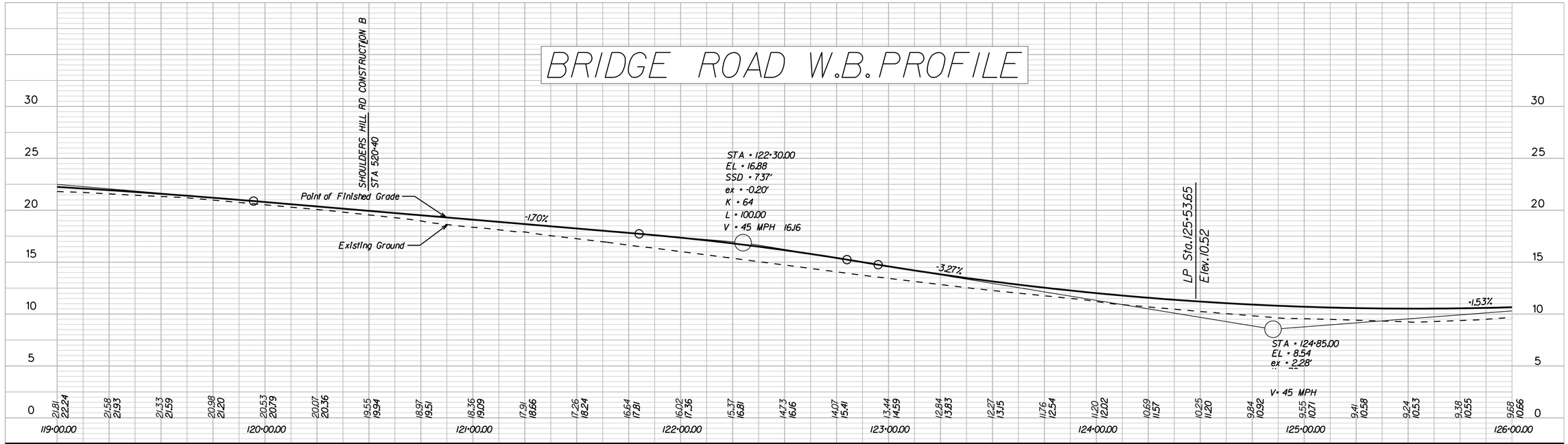

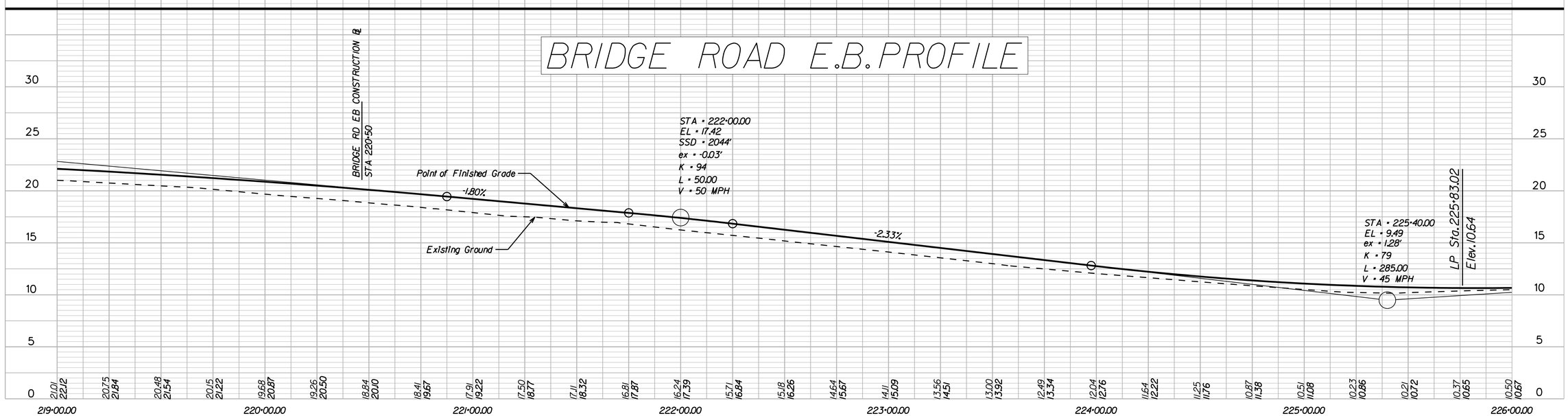

SCALE: HORIZ - 1" = 25'

VERT - 1" = 5'

CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PROFILE SHEET STA 119+00 - 126+00		
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP
		SHEET NO. 6A

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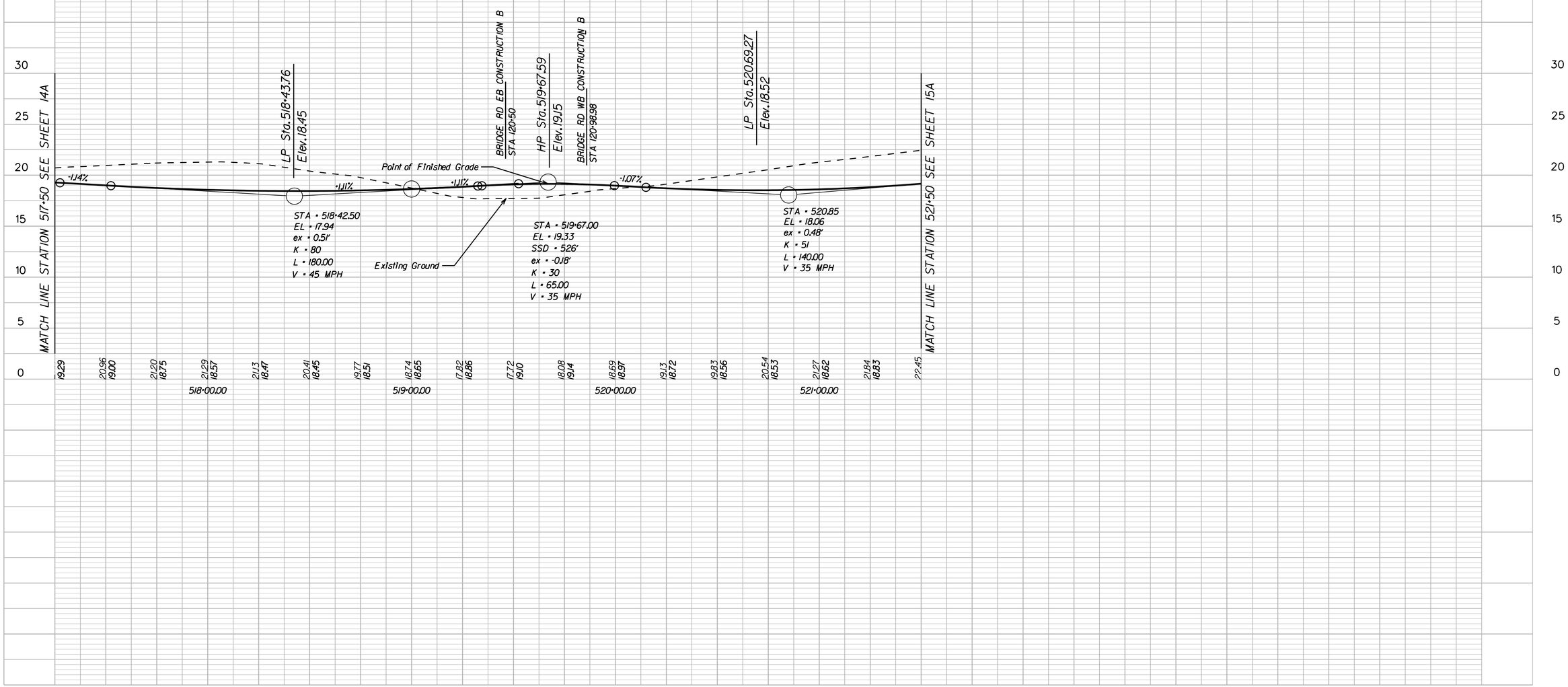
SHOULDERS HILL ROAD PROFILE



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 517+25 - 521+50

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 6A(1)

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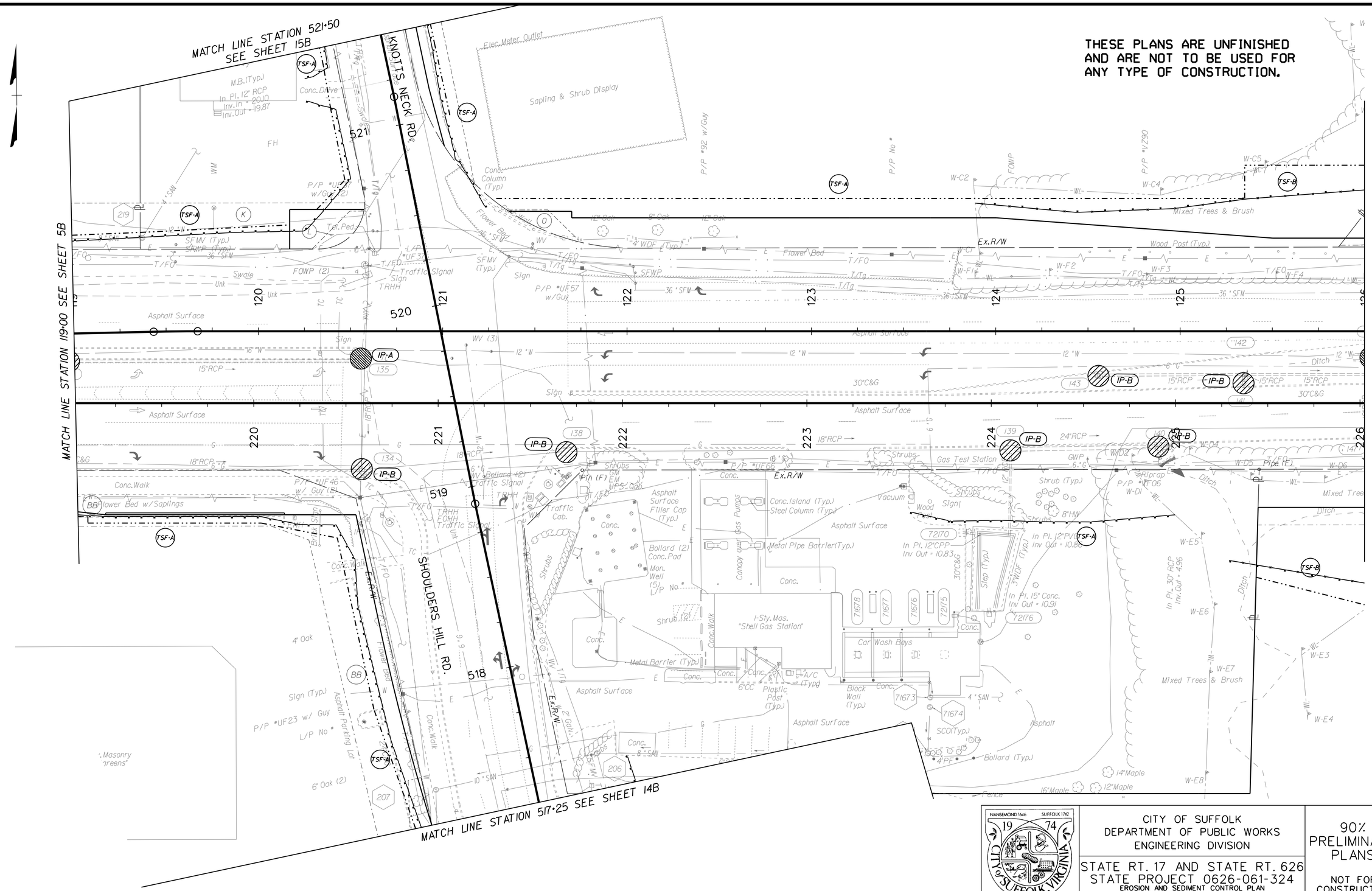
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



SCALE
0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE I STA 119+00 - 126+00
STA 517+25 - 521+50

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 6B

3:59:10 PM
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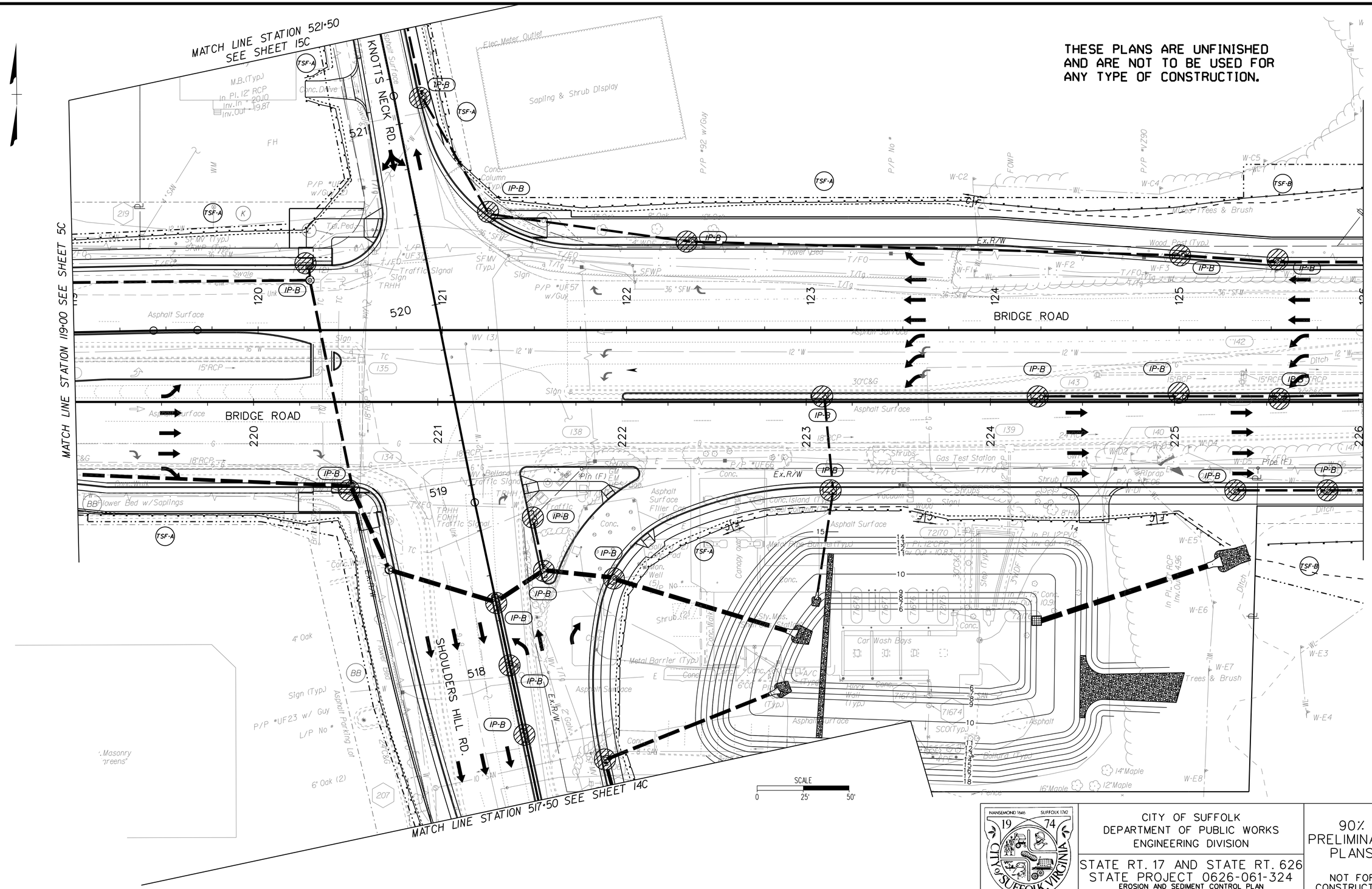
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 119+00 - 126+00 : STA 517+25 - 521+50	
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP
		SHEET NO. 6C

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

MATCH LINE STATION 521+50 SEE SHEET 15RW

Prop. Temp. Constr. Easement

RIGHT-OF-WAY TO BE ACQUIRED

PI 521+15.56

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Prop. Temp. Constr. Esmt.

Prop. Temp. Constr. Easmt. For Entrance

Prop. Perm. Drainage Easement

Prop. Temp. Constr. Easement

Prop. Temp. Constr. Easement

RIGHT-OF-WAY TO BE ACQUIRED

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Exist. R/W

Ex.R/W

RIGHT-OF-WAY TO BE ACQUIRED

Exist. R/W

KNOTTS NECK RD.

N 10° 48' 40" W

BRIDGE ROAD W.B.

BRIDGE RD W.B. CONSTRUCTION ℄

S 89° 31' 59" E

S 89° 31' 59" E

BRIDGE ROAD E.B.

BRIDGE RD E.B. CONSTRUCTION ℄

MATCH LINE STATION 119+00 SEE SHEET 5RW

MATCH LINE STATION 126+00 SEE SHEET 7RW

Exist. R/W

Ex.R/W

Pin (F)

Pipe (F)

RIGHT-OF-WAY TO BE ACQUIRED

Prop. Temp. Constr. Esmt.

PI 518+90.54

Prop. Perm. Drainage Easement

RIGHT-OF-WAY TO BE ACQUIRED

Prop. Temp. Constr. Esmt.

Curve C-WB03
PI = 119+55.16
DELTA = 1° 15' 11.32" (RT)
D = 5° 15' 06"
T = 11.93'
L = 23.86'
R = 1,091.00'
PC = 119+43.23
PT = 119+67.09

SHOULDERS HILL RD.

N 11° 34' 30" W

Ex.R/W

10' WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

RIGHT-OF-WAY TO BE ACQUIRED

Exist. R/W

Prop. Temp. Constr. Easement

RIGHT-OF-WAY TO BE ACQUIRED

MATCH LINE STATION 517+25 SEE SHEET 14RW

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

SCALE 0 25' 50'

022
Now Or Formerly
LANCASTER FARMS, INC.
DB 135 PG 564
Nan. PB 8 PG 43
0.48 AC.
Tax Map #12B*A6

023
Now Or Formerly
LANCASTER FARMS, INC.
DB 135 PG 564
Nan. PB 8 PG 43
0.60 AC.
Tax Map #12B*A7

024
Now Or Formerly
THE PAIGE TRUST
Inst.#170007868
PB 2 PG 75
Inst.#060172900-Plat
1.92 AC.
Tax Map #12*55*1C

025
Now Or Formerly
MLP PROPERTIES, LLC
Inst.#130005260
DB 217 PG 355-Plat
3.81 AC.
Tax Map #12*55F*1

026
Now Or Formerly
JOHN J. DODSON, INC.
Inst.#010016102
DB 137 PG 229-Plat
1.55 AC.
Tax Map #12*55*1A
Prop. Total Acquisition

028
Now Or Formerly
BRIDGE ROAD SEVENTEEN, LLC
Inst.#070195390
PC 3 Sld. 284A
20.35 AC.
Tax Map #12*55Z*B

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 119+00 - 126+00 : STA 517+25 - 521+50

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	6RW		

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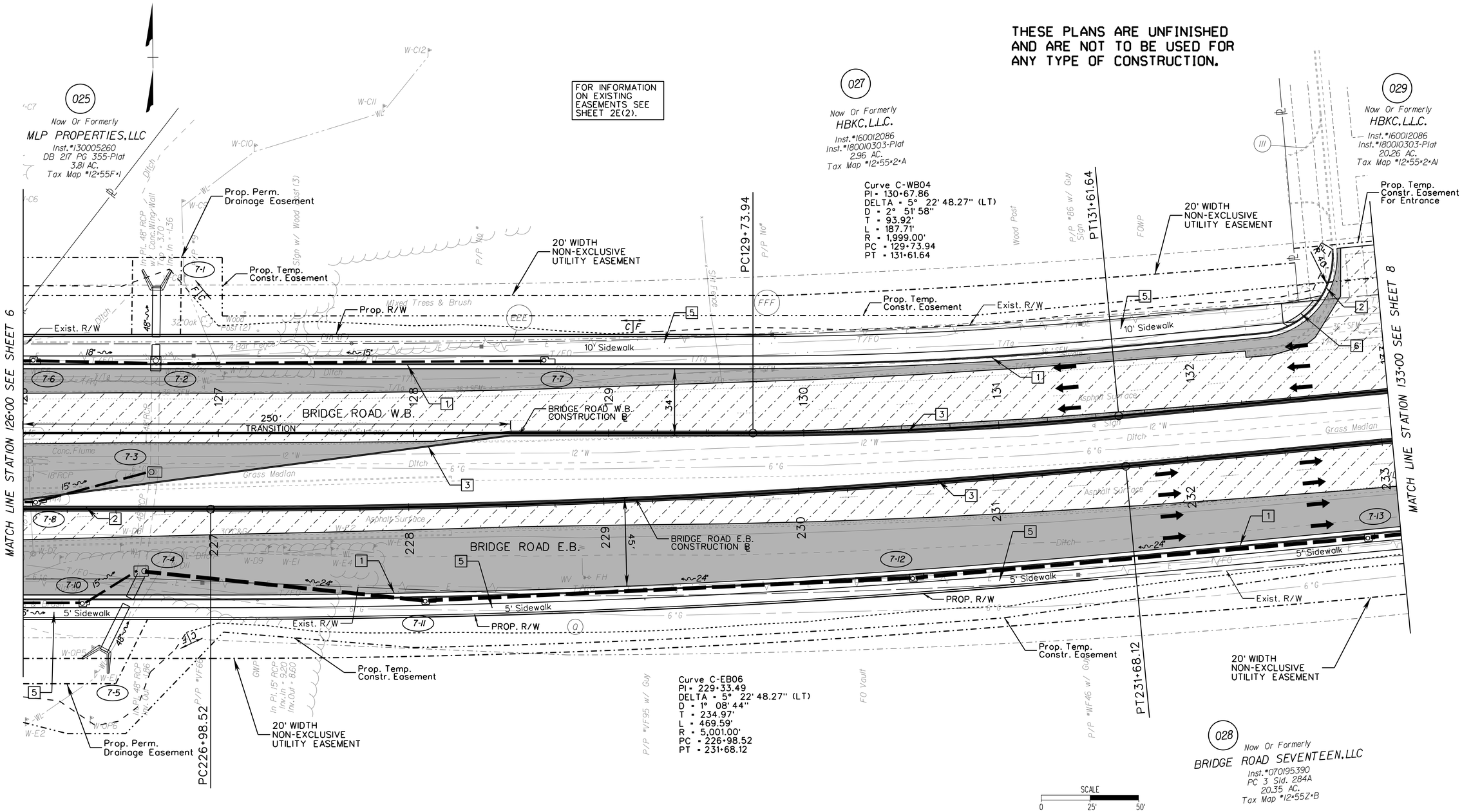
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

- C ..... Denotes Construction Limits in Cuts
- F _ _ Denotes Construction Limits in Fills
- Denotes New Asphalt Pavement
- Denotes Variable Depth Mill and Overlay of Pavement

NANSEMOND 1646 SUFFOLK 1742 — 19 74 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 126+00 - 133+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	7		

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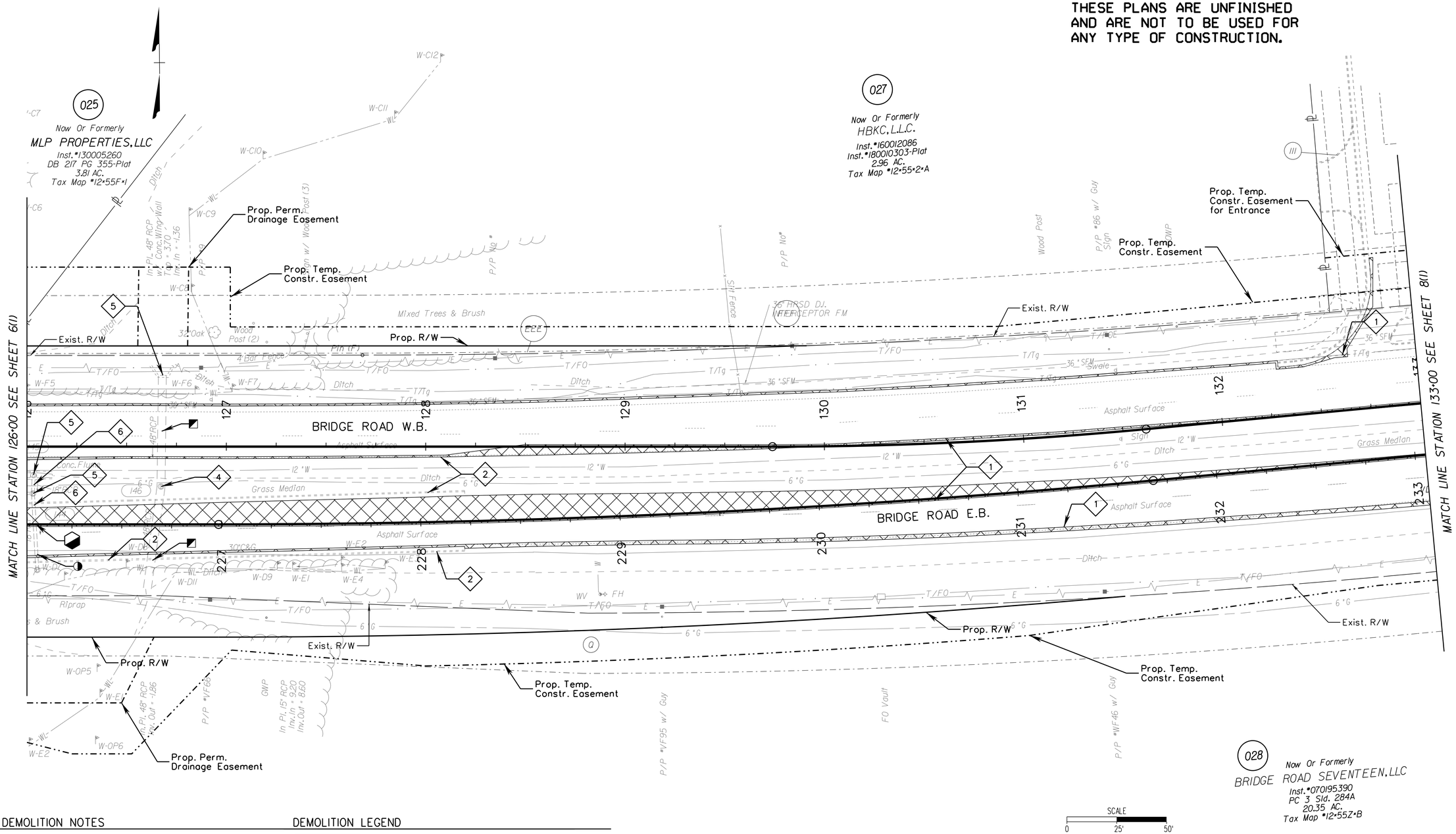
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
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DEMOLITION LEGEND

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- Denotes Clearing Parcel
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- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 126+00 - 133+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 7(1)

3:59:21 PM
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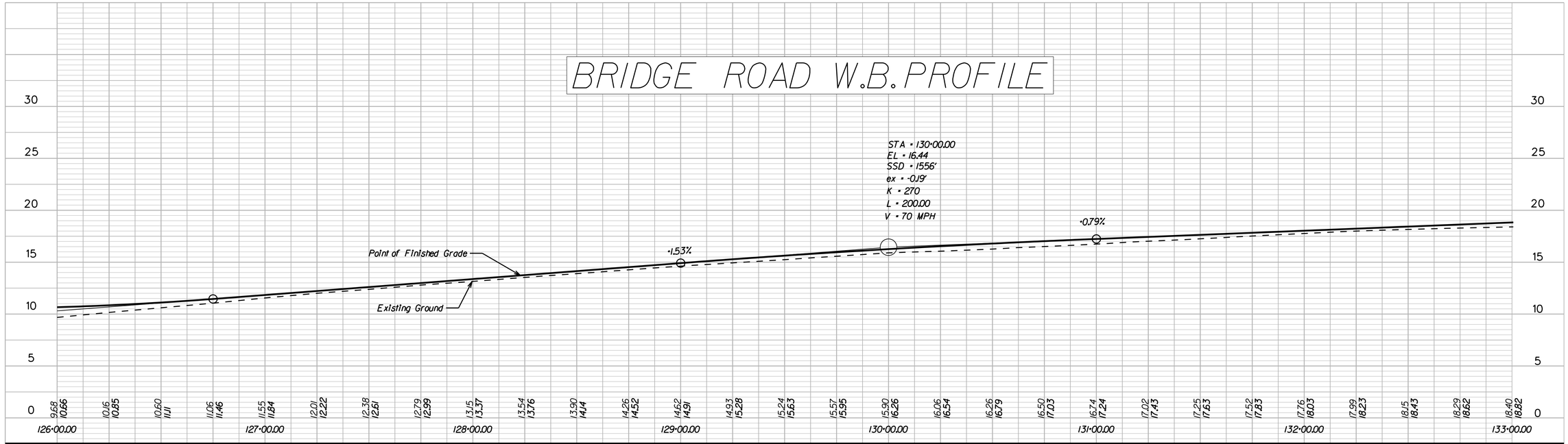
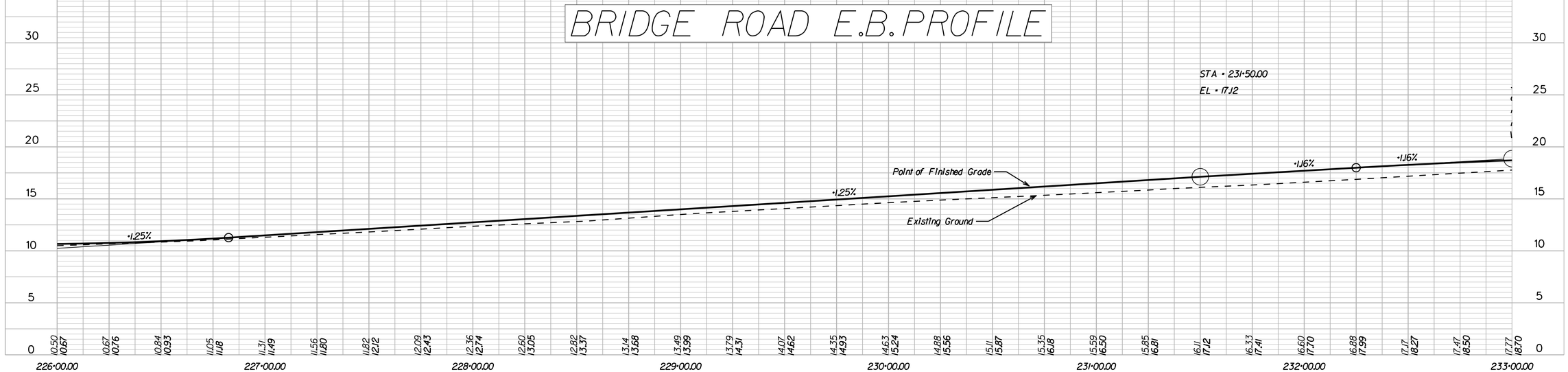
BRIDGE ROAD W.B. PROFILE



BRIDGE ROAD E.B. PROFILE



SCALE: HORIZ - 1" = 25' SCALE 0 25' 50'

VERT - 1" = 5' SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PROFILE SHEET STA 126+00 - 133+00	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 7A

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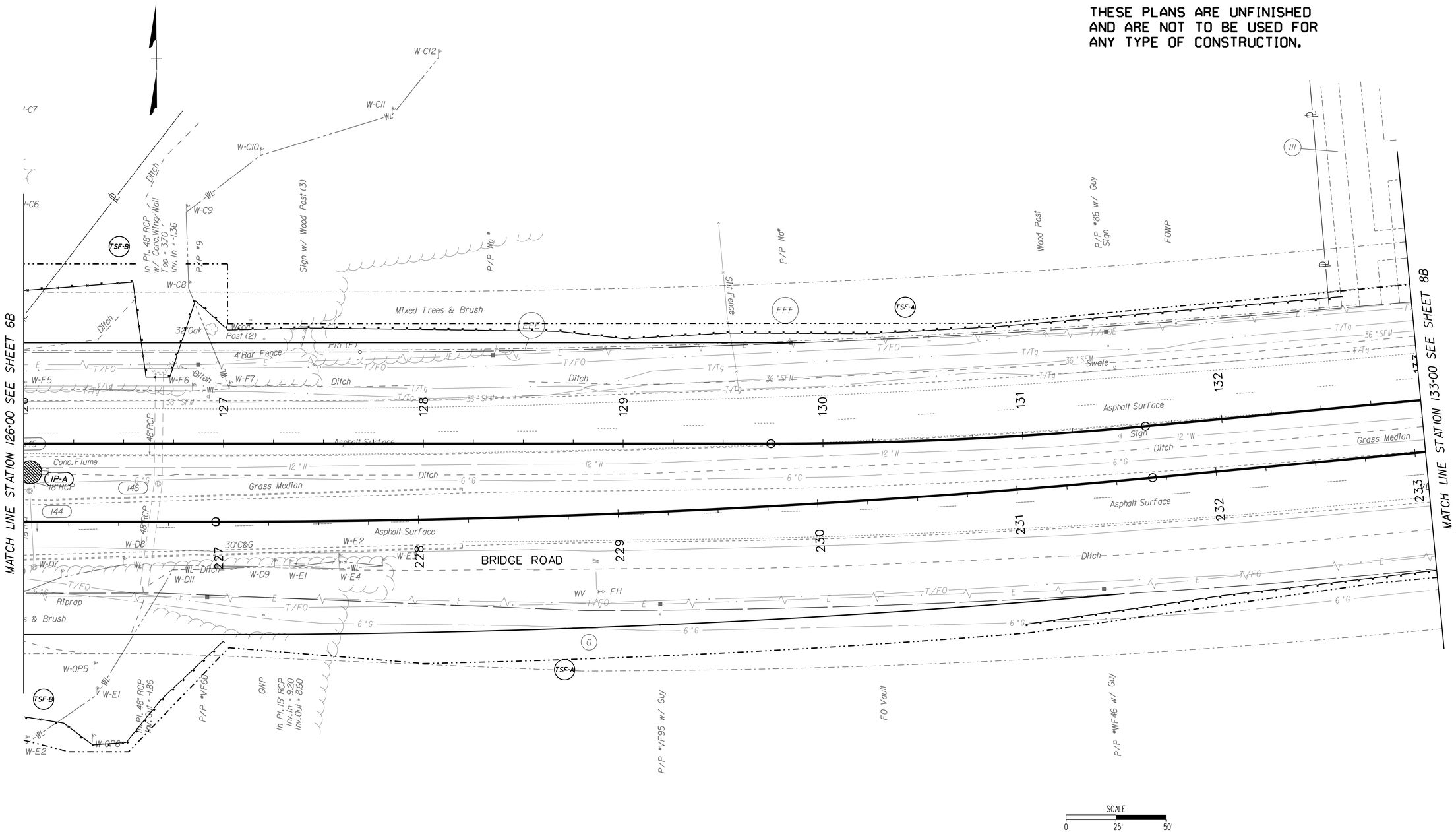
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 126+00 - 133+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 7B

3:59:23 PM
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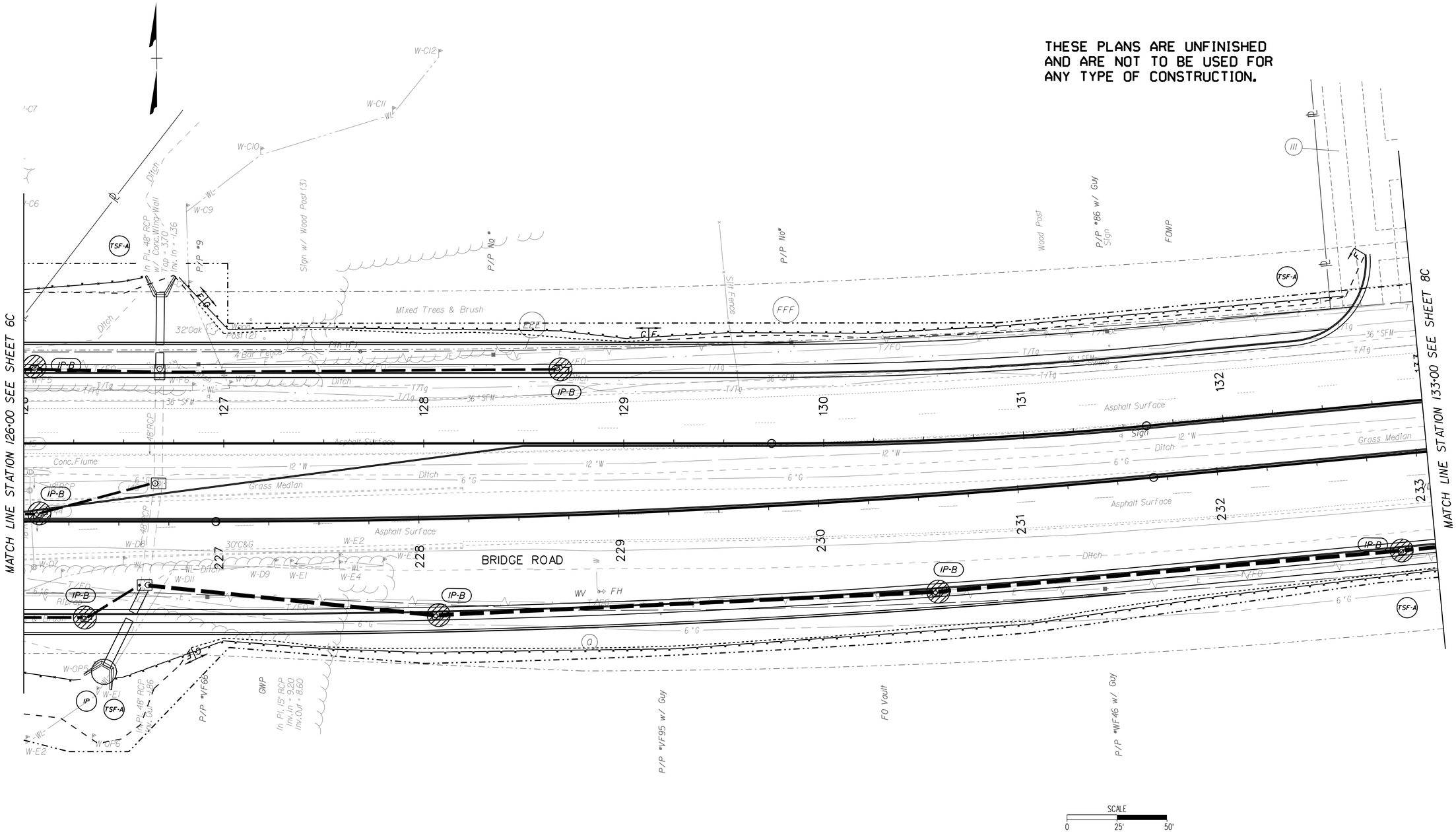
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



SCALE
0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 126+00 - 133+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	7C		

3:59:24 PM
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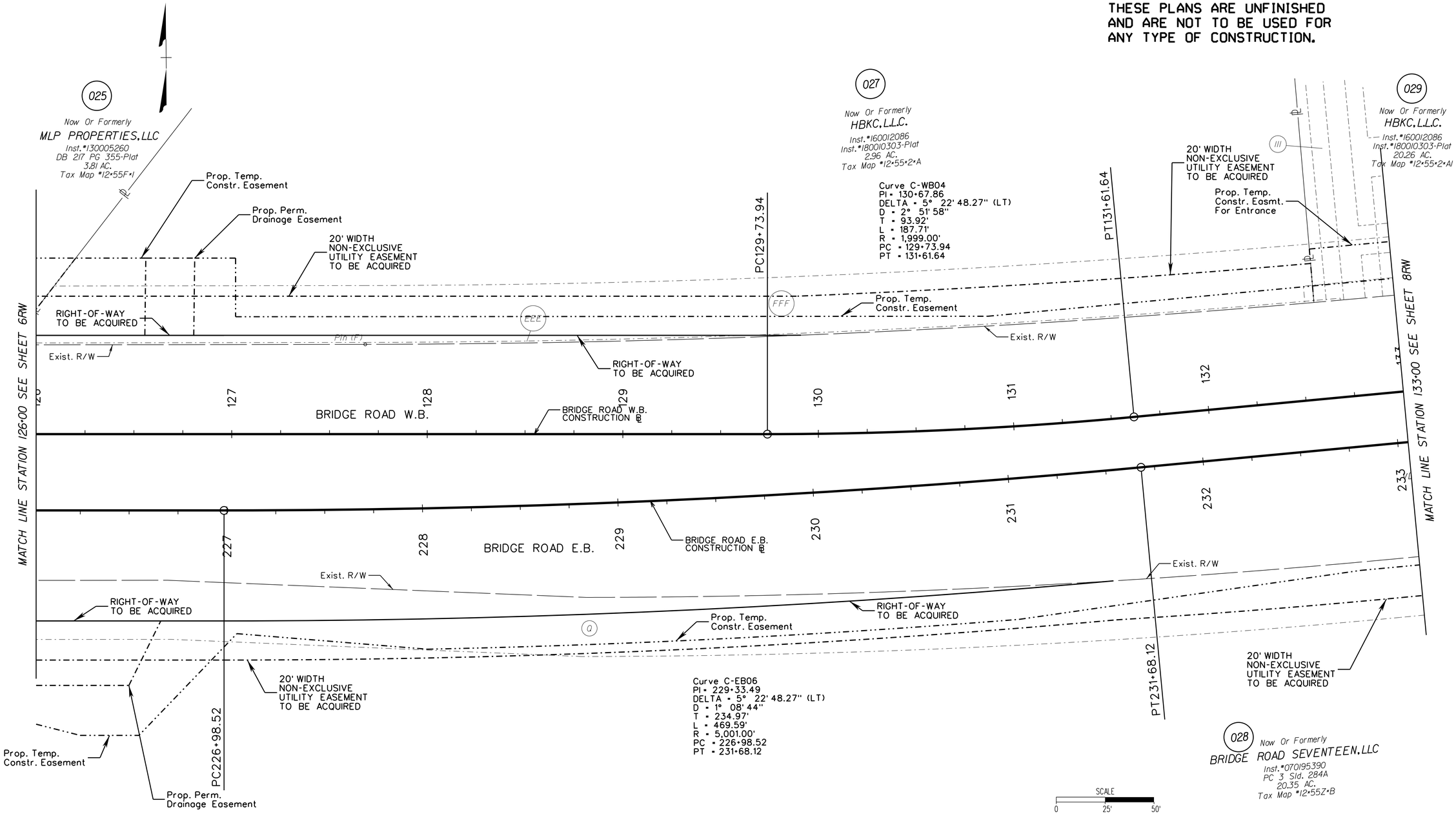
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 126+00 - 133+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	7RW		

3:59:25 PM
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THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).

029
Now Or Formerly
HBKC, L.L.C.
Inst.#160012086
Inst.#180010303-Plat
20.26 AC.
Tax Map #12*55*2*A1

MATCH LINE STATION 133+00 SEE SHEET 7

MATCH LINE STATION 140+00 SEE SHEET 9

Prop. Temp. Constr. Easement for Entrance

Prop. Temp. Constr. Easement

Exist. R/W

BRIDGE ROAD W.B. CONSTRUCTION ℄ N 85° 05' 12" E

N 85° 05' 12" E

BRIDGE ROAD W.B.

Asphalt Surface

BRIDGE ROAD E.B. CONSTRUCTION ℄

BRIDGE ROAD E.B.

U.S.#17 BRIDGE ROAD VARIABLE WIDTH R/W VDOT PLANS 0017-131-102, C501

5' Sidewalk

Prop. Temp. Constr. Easement

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT

028
Now Or Formerly
BRIDGE ROAD SEVENTEEN, LLC
Inst.#070195390
PC 3 Sld. 284A
20.35 AC.
Tax Map #12*55Z*B

030
Now Or Formerly
WINDWARD LANE, LLC
Inst.#170013503
PC 3 Sld. 359A
0.48 AC.
Tax Map #12N*ROW

WINDWARD LANE 60' R/W (PC.3, PG.359A)

031
Now Or Formerly
SHIRLEY AND ASSOCIATES, L.P.
Inst.#060004543
PC 2 Sld. 58B
4.09 AC.
Tax Map #12*55*3

SCALE 0 25' 50'

CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 133+00 - 140+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 8

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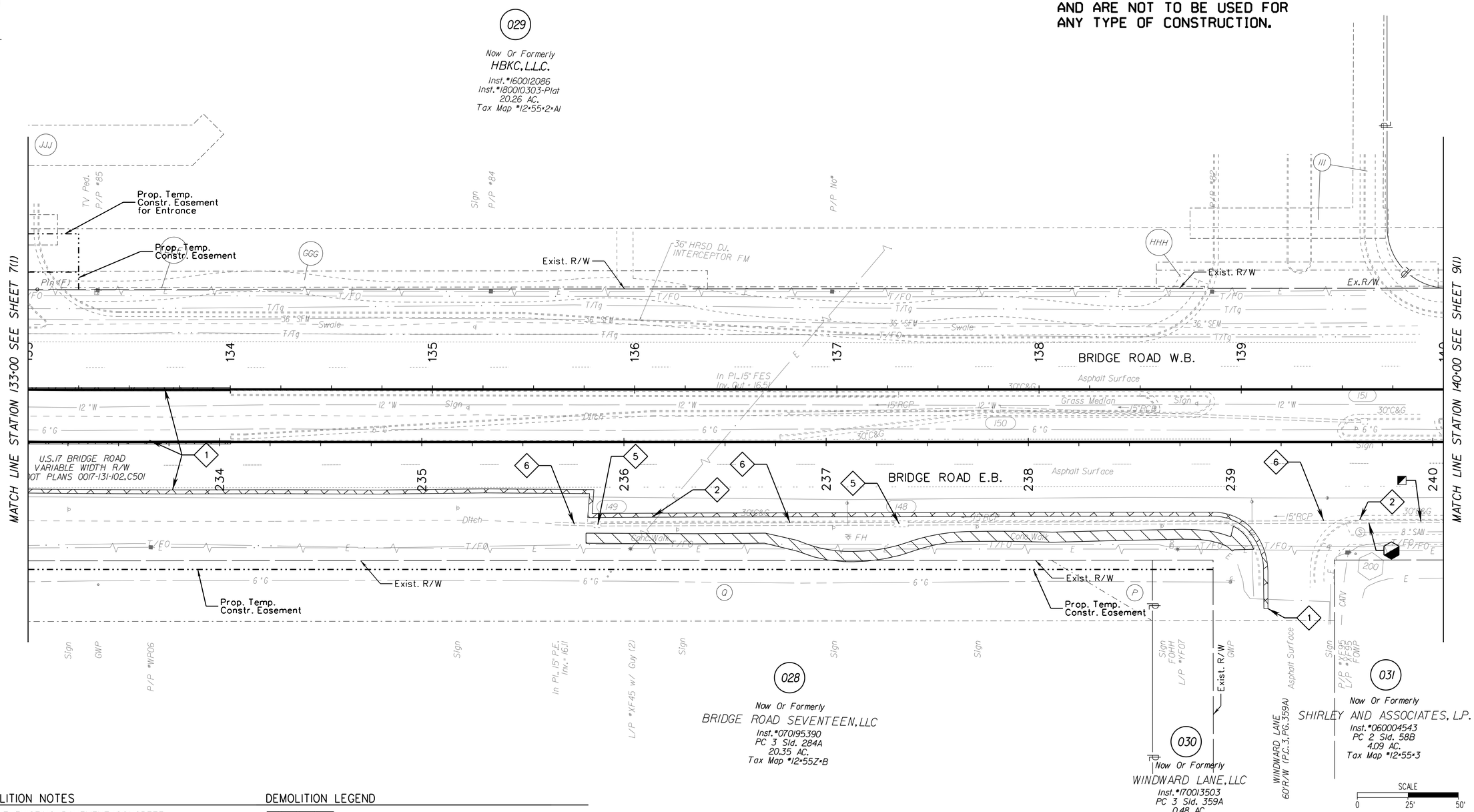

DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 133+00 - 140+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	8(1)		

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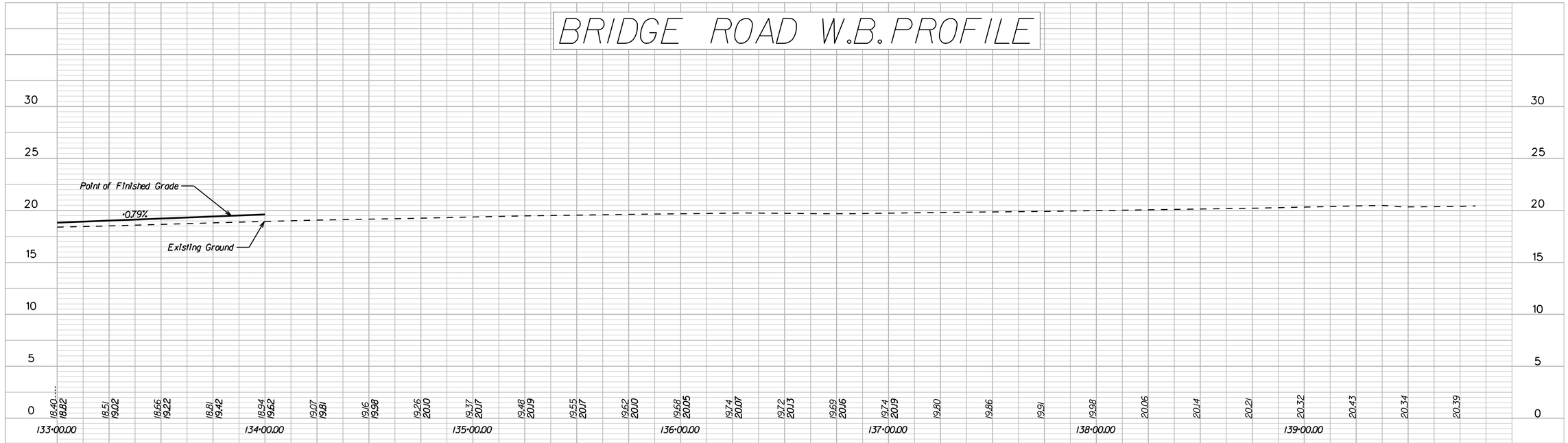
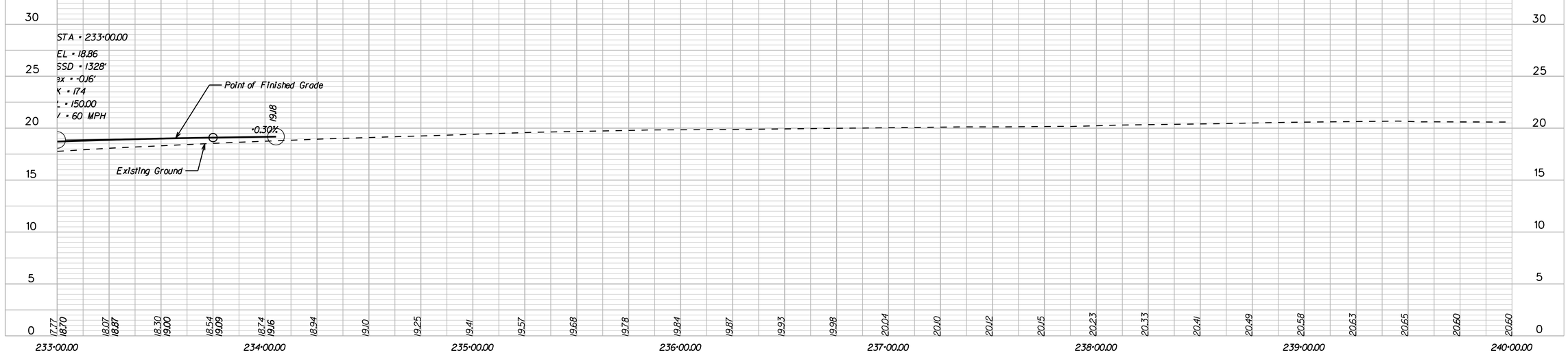
BRIDGE ROAD W.B. PROFILE



BRIDGE ROAD E.B. PROFILE



SCALE: HORIZ - 1" = 25' (SCALE 0 25' 50')

VERT - 1" = 5' (SCALE 0 5' 10')

CLARKNEXSEN	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PROFILE SHEET STA 133+00 - 140+00		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 8A

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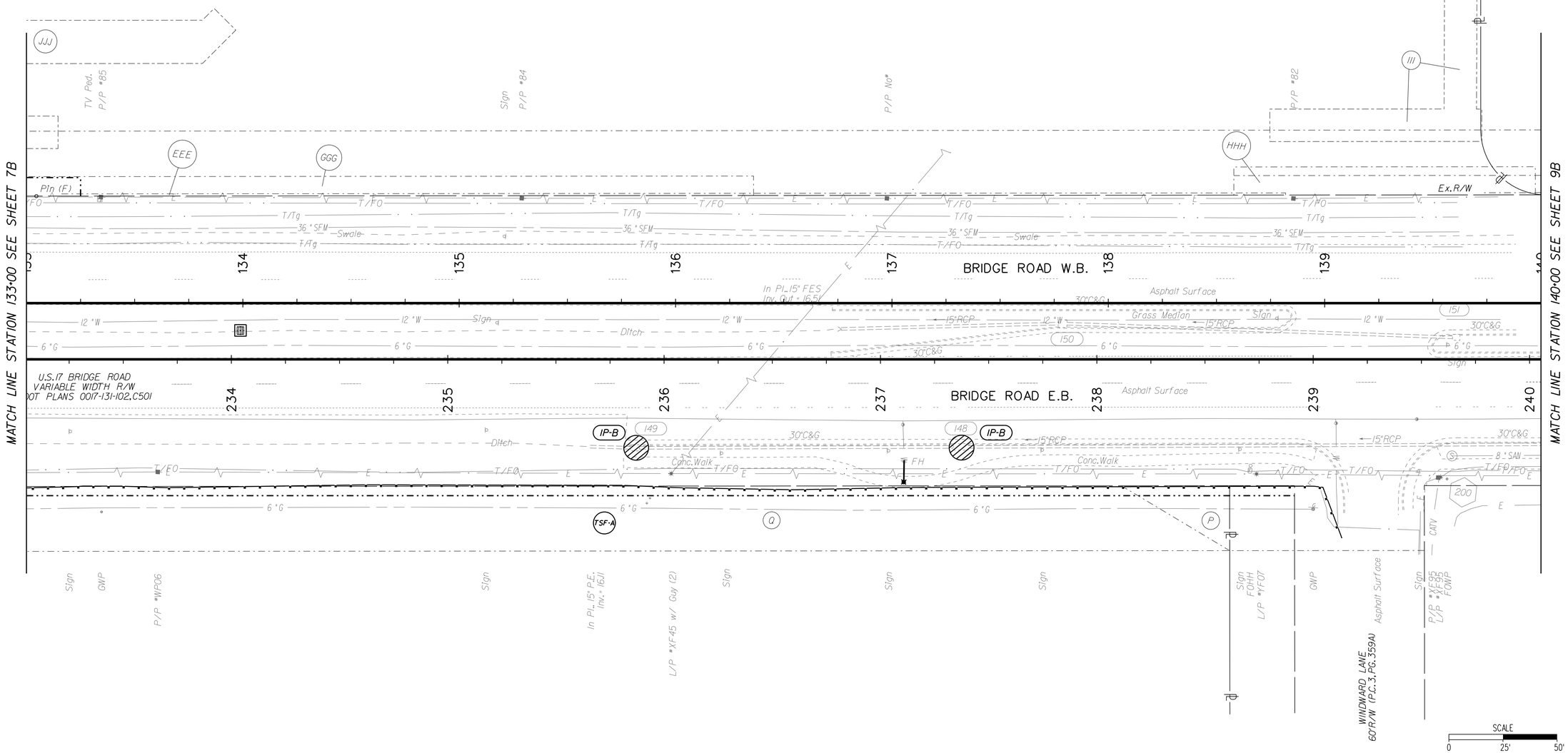

CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS
STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 133+00 - 140+00		NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP
		SHEET NO. 8B

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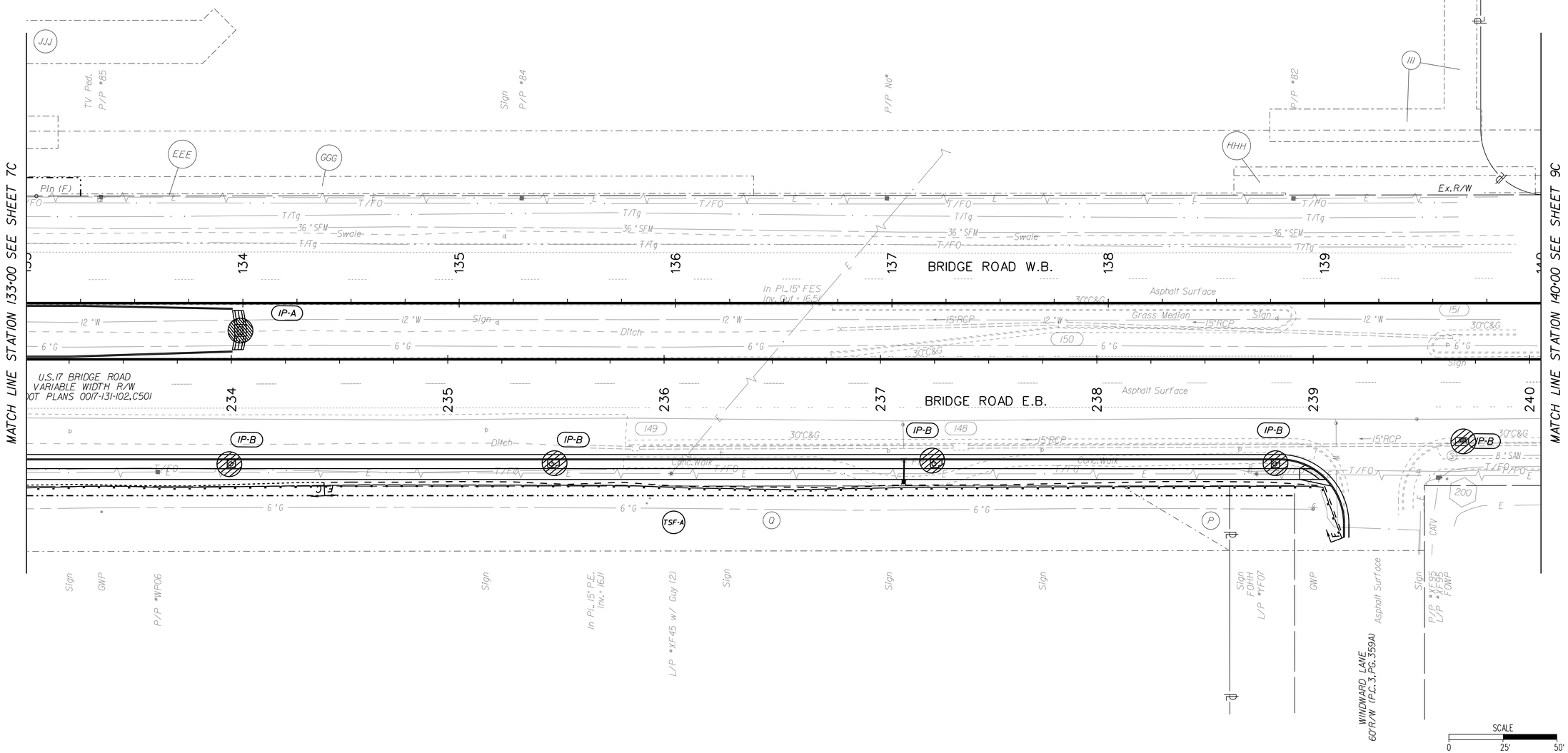

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 133+00 - 140+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 8C

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029

Now Or Formerly
HBKC, L.L.C.
Inst.#160012086
Inst.#180010303-Plat
20.26 AC.
Tax Map #12*55*2*A1

JJJ

Prop. Temp. Constr. Easement

EEE

GGG

III

HHH

Pin (F)

Exist. R/W

Ex.R/W

MATCH LINE STATION 133+00 SEE SHEET 7RW

134 135 136 137 138 139

BRIDGE ROAD W.B. CONSTRUCTION ℄

N 85° 05' 12" E

BRIDGE ROAD W.B.

N 85° 05' 12" E

U.S.17 BRIDGE ROAD
VARIABLE WIDTH R/W
PLANS 0017-131-102,C501

BRIDGE ROAD E.B. CONSTRUCTION ℄

234 235 236 237 238 239 240

BRIDGE ROAD E.B.

MATCH LINE STATION 140+00 SEE SHEET 9RW

Exist. R/W

Exist. R/W

Prop. Temp. Constr. Easement

Q

Prop. Temp. Constr. Easement

P

028

Now Or Formerly
BRIDGE ROAD SEVENTEEN, LLC
Inst.#070095390
PC 3 Sld. 284A
20.35 AC.
Tax Map #12*55Z*B

030

Now Or Formerly
WINDWARD LANE, LLC
Inst.#170013503
PC 3 Sld. 359A
0.48 AC.
Tax Map #12N*ROW

WINDWARD LANE
60'R/W (P.C.3, PG.359A)

031

Now Or Formerly
SHIRLEY AND ASSOCIATES, L.P.
Inst.#060004543
PC 2 Sld. 58B
4.09 AC.
Tax Map #12*55*3

SCALE
0 25' 50'

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

NANSEMOND 1666 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 133+00 - 140+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 8RW

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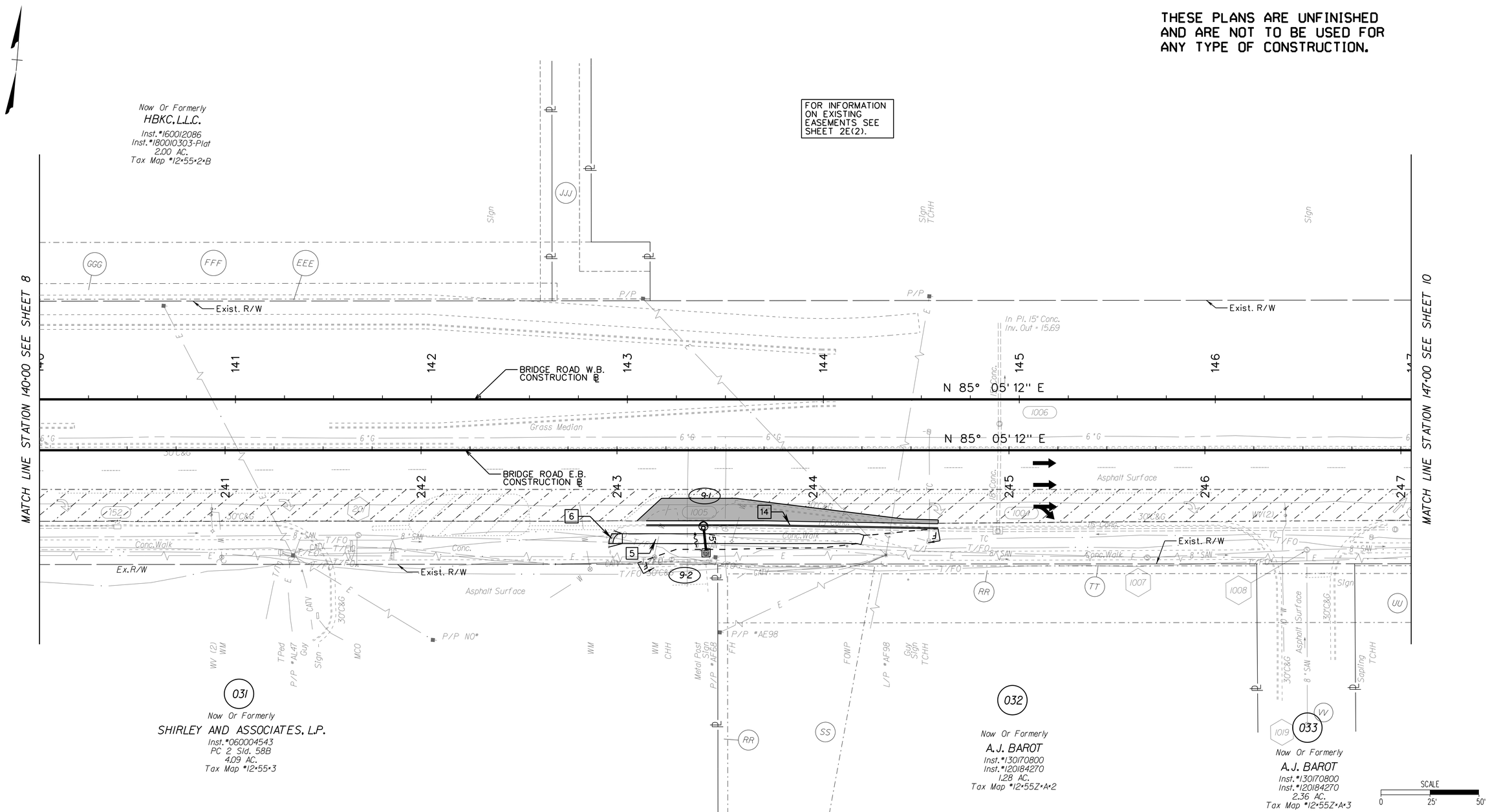

CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 140+00 - 147+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 9

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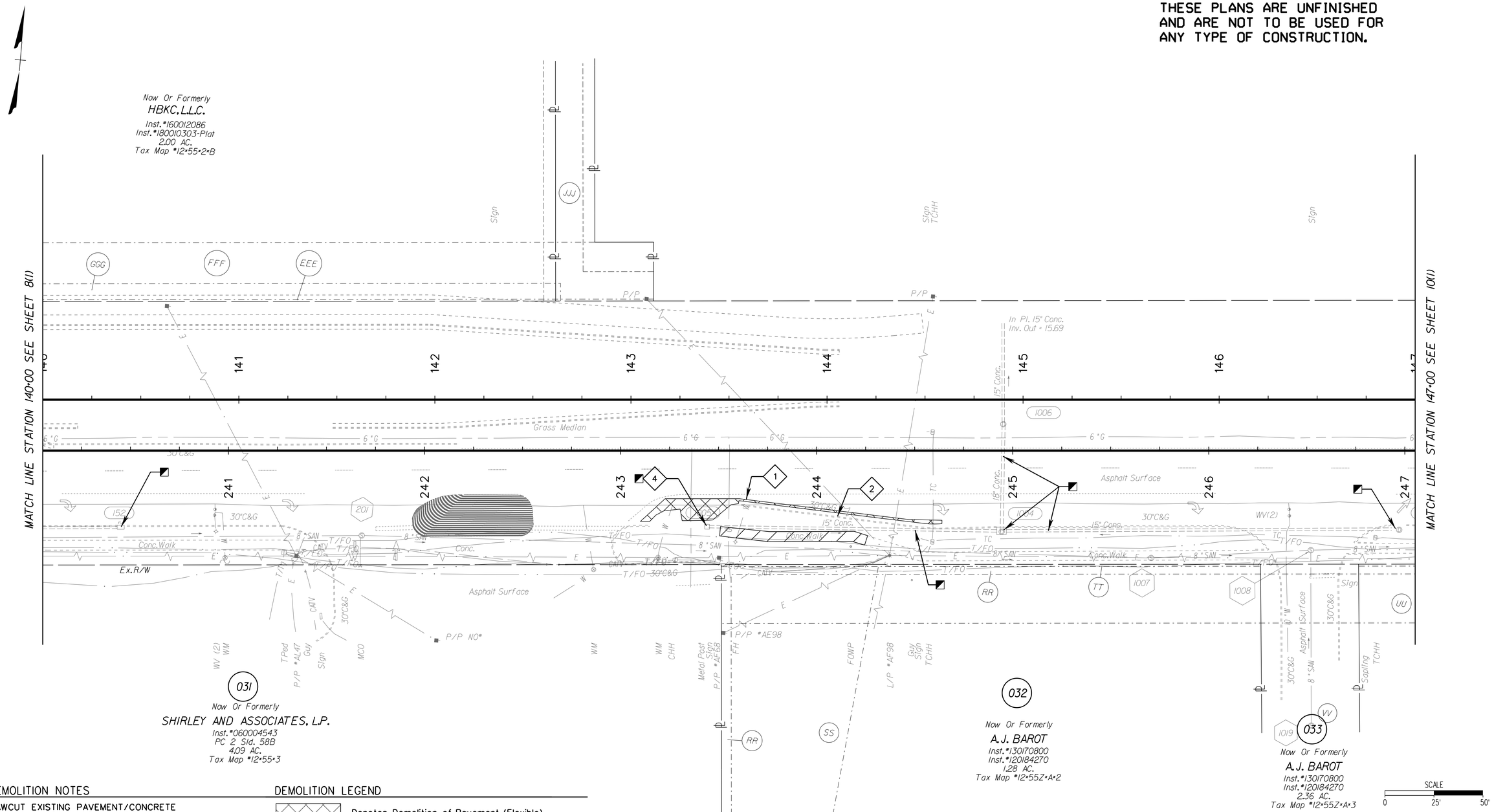
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
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DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 140+00 - 147+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	9(1)		

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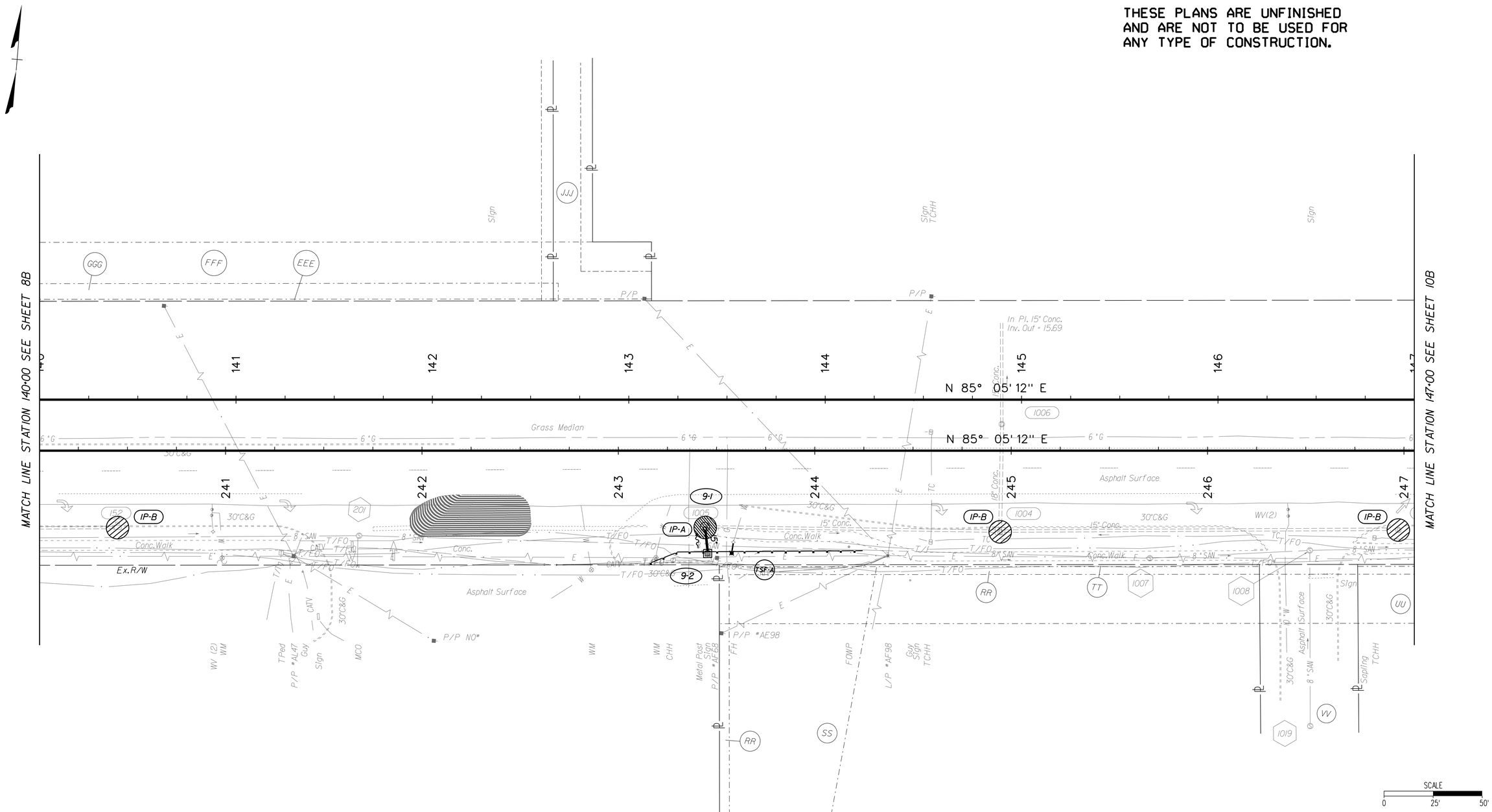

SCALE
0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 140+00 - 147+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 9B

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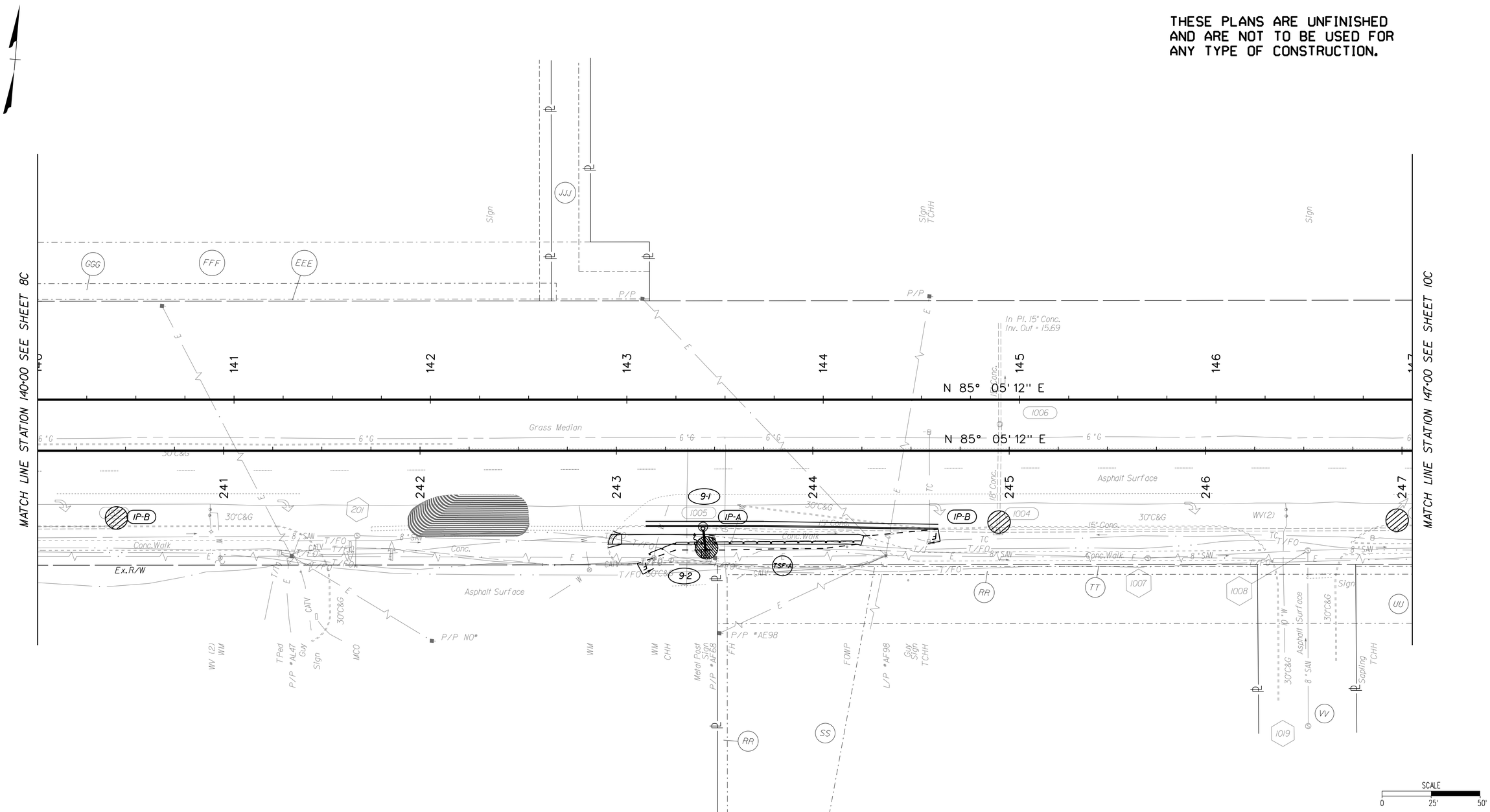
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



SCALE
0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 140+00 - 147+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	
DATE 5/10/19	APPROVED BY	WMP	SHEET NO. 9C

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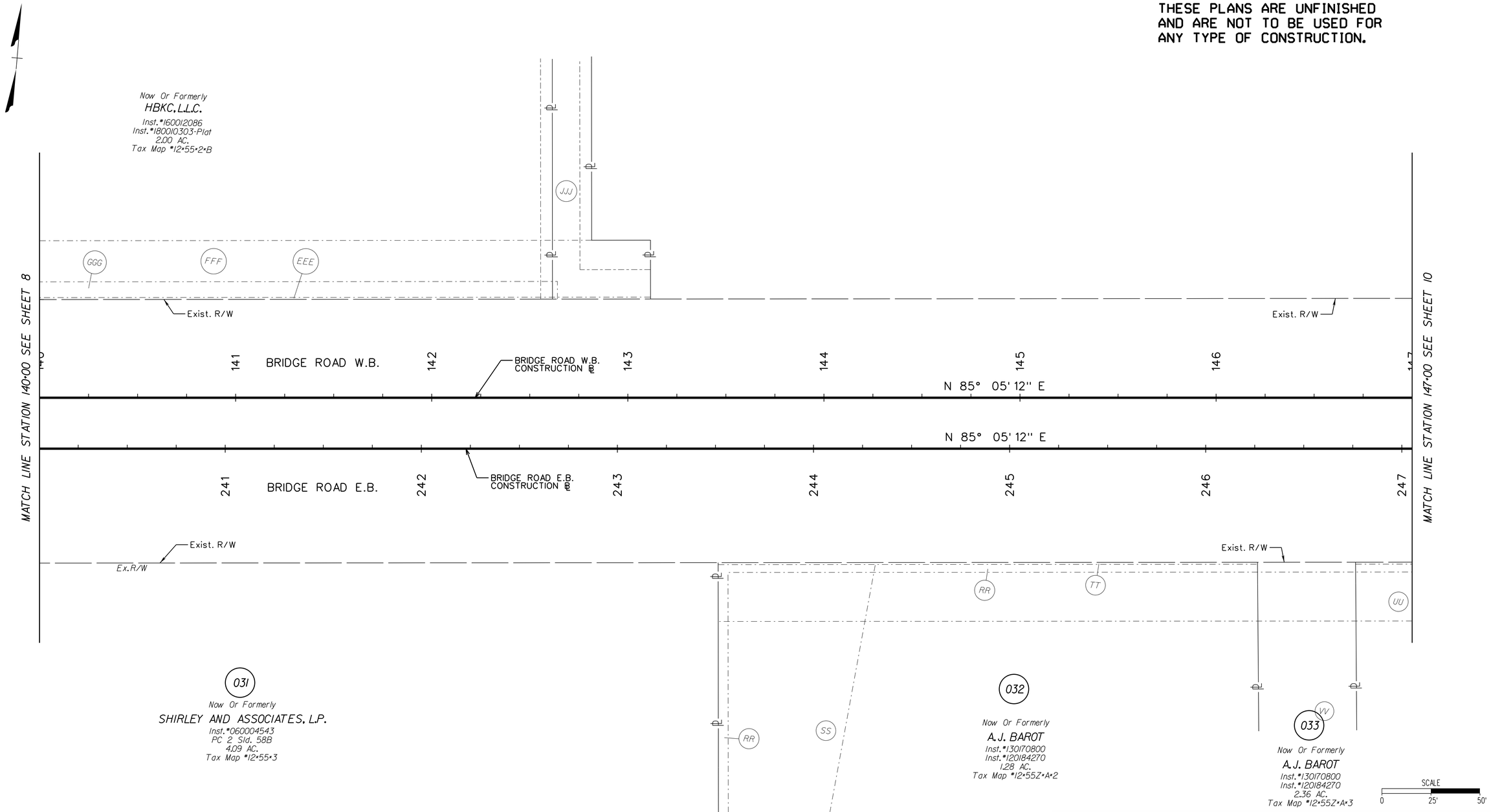

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 140+00 - 147+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 9RW

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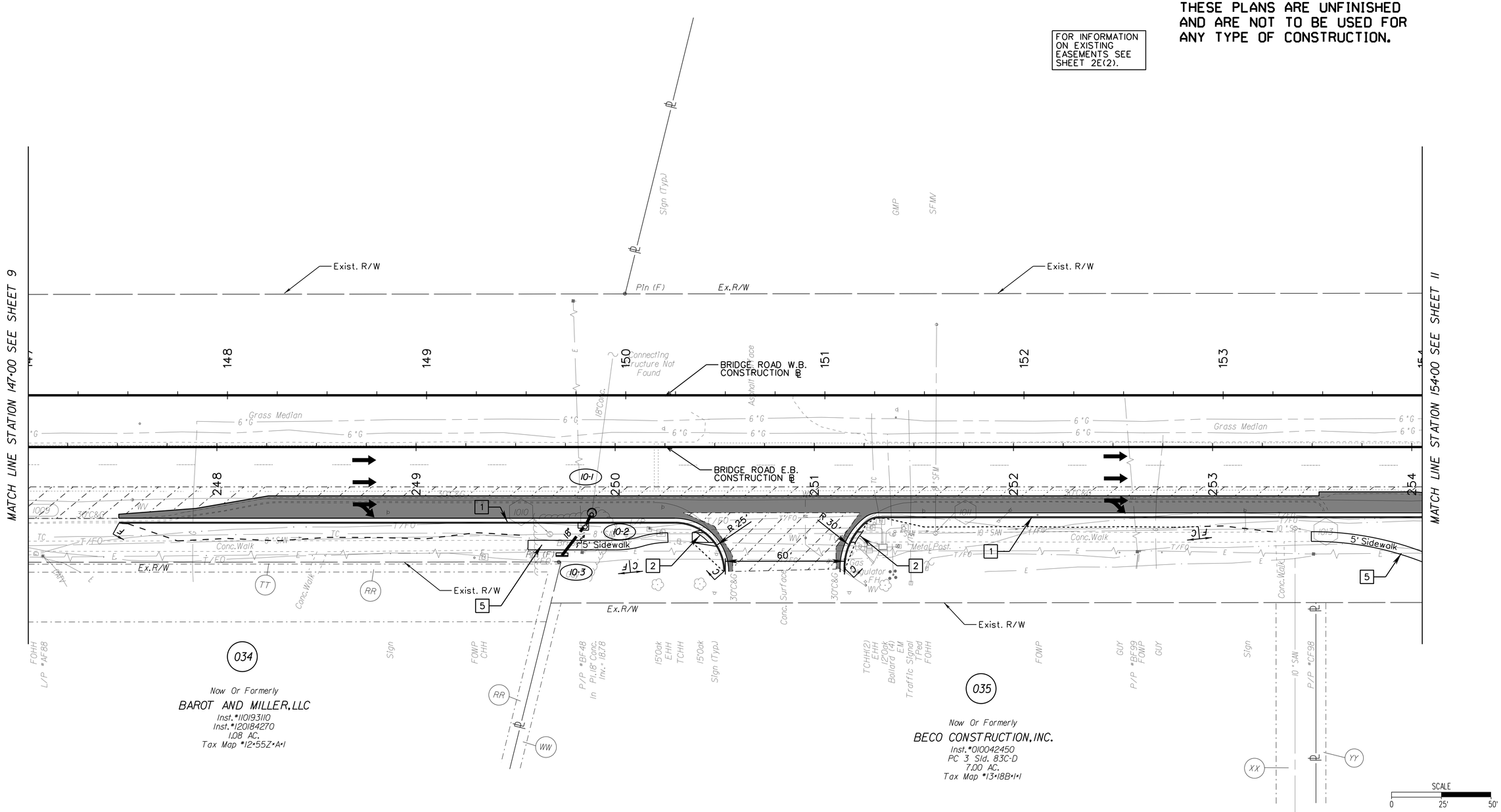
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
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11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

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CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 147+00 - 154+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 10

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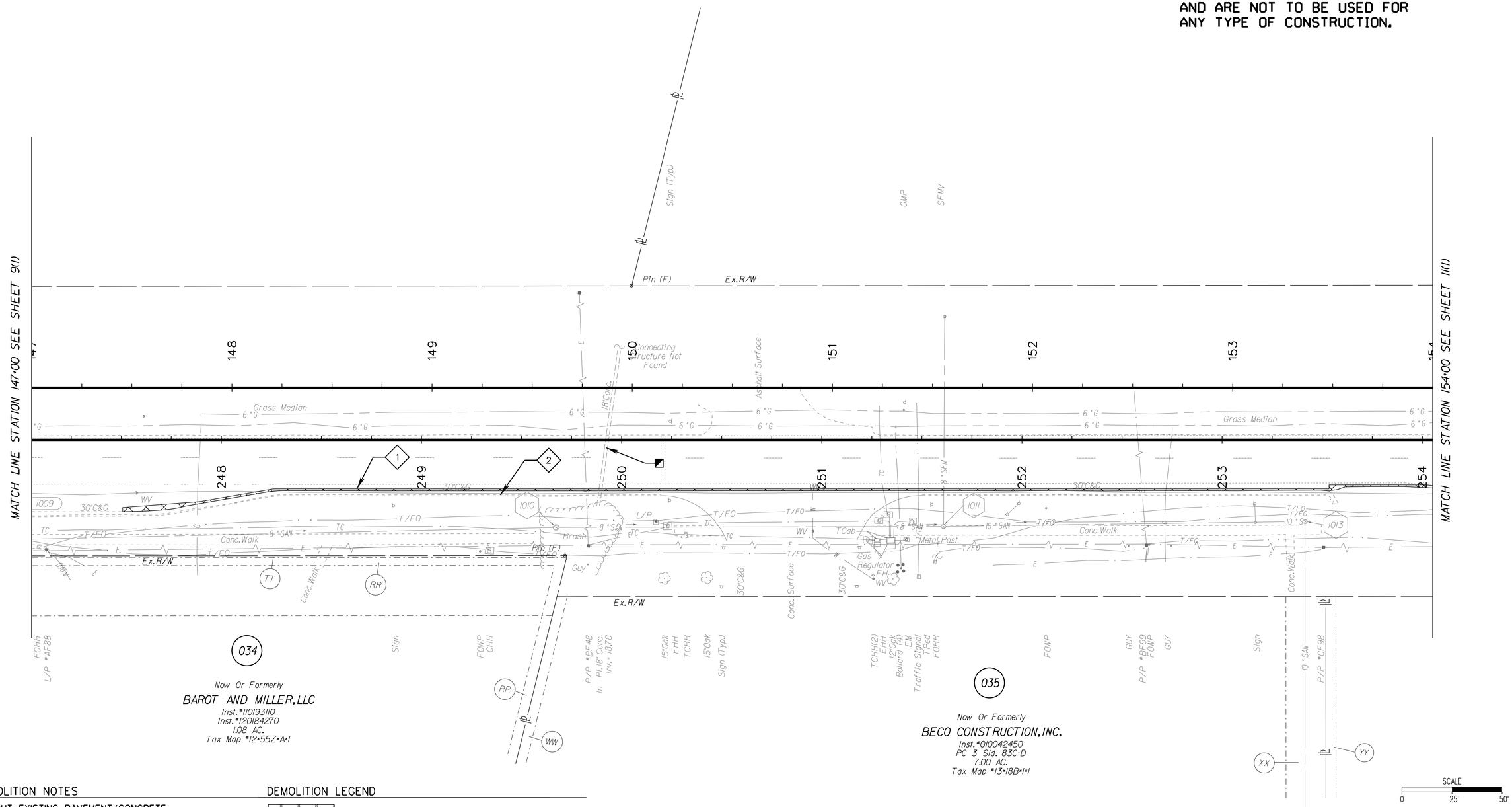

DEMOLITION NOTES

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NANSEMOND 1646 SUFFOLK 1742 1974 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
PLAN STA 147+00 - 154+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	10(1)		

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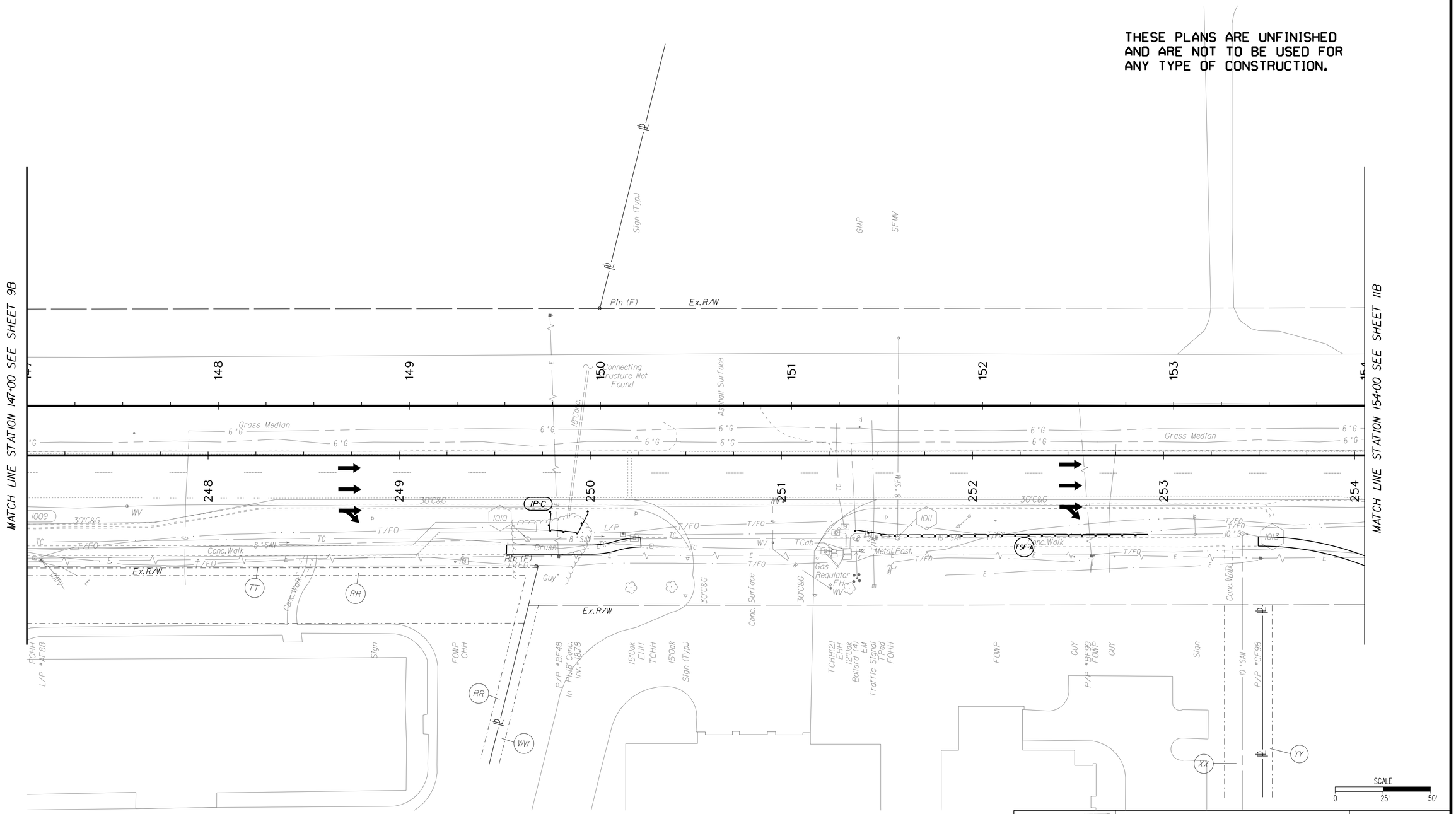

NANSEMOND 1665 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 147+00 - 154+00		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 10B

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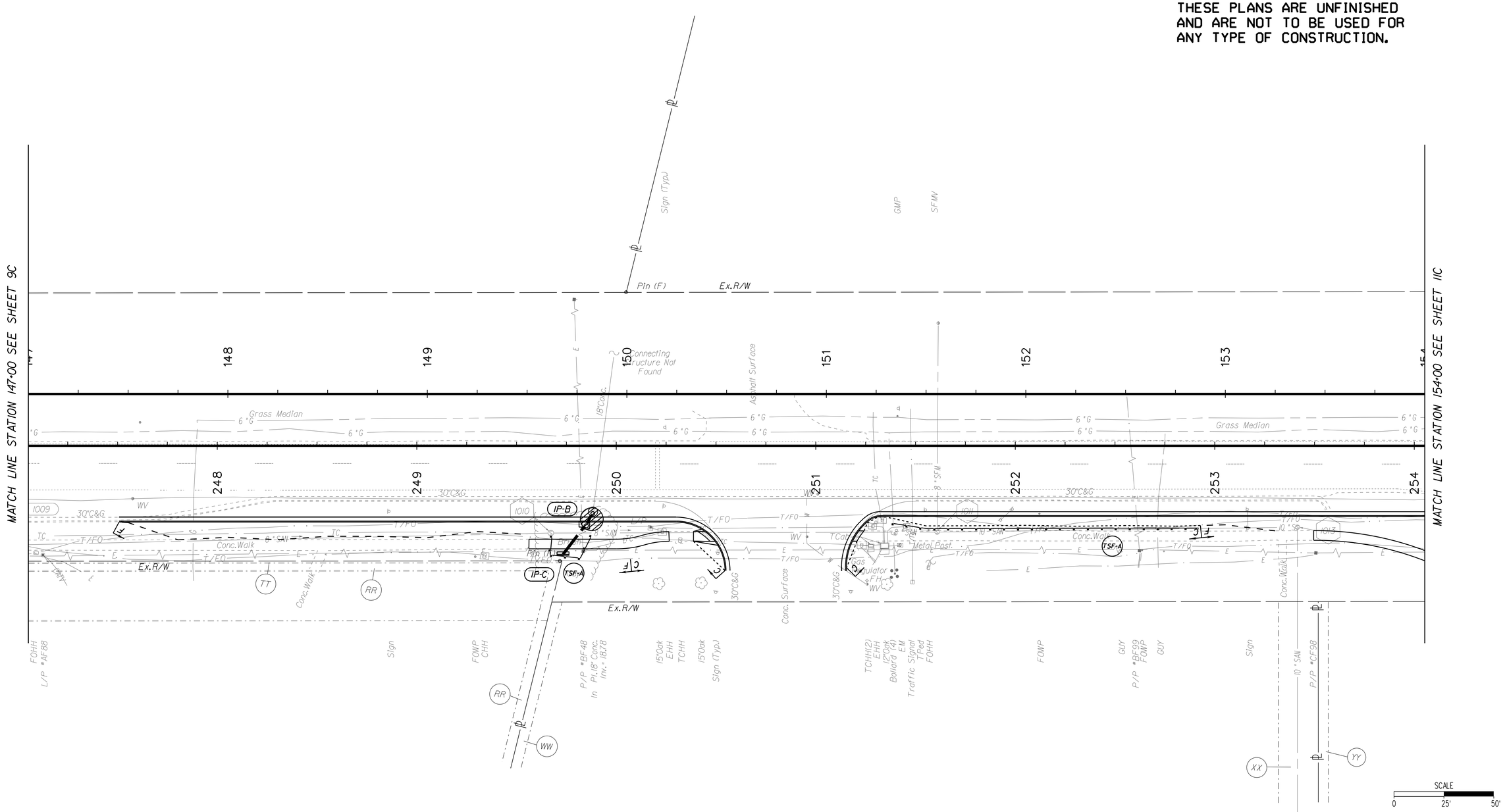

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 147+00 - 154+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 10C
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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THESE PLANS ARE UNFINISHED
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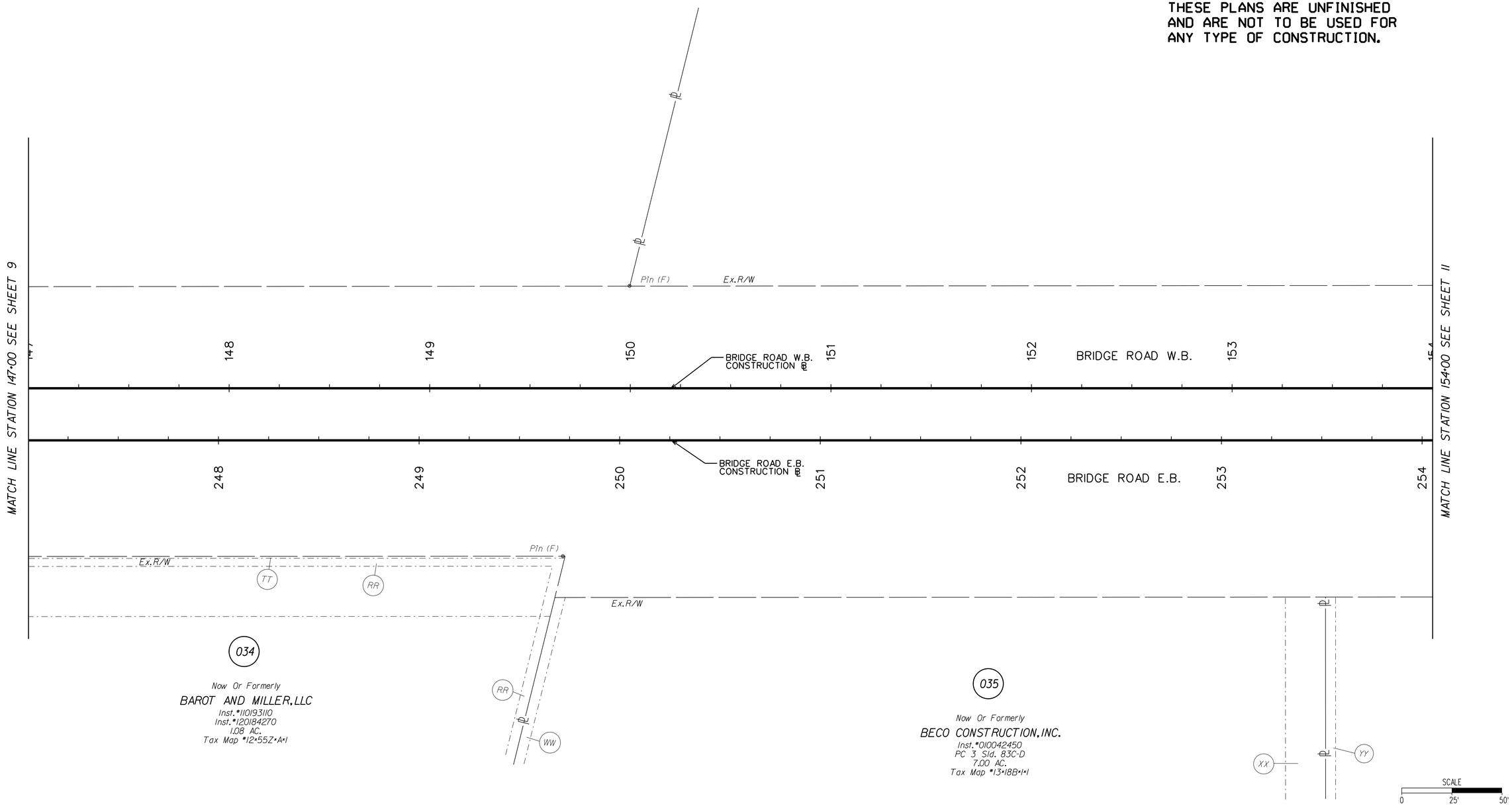

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 147+00 - 154+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	10RW		

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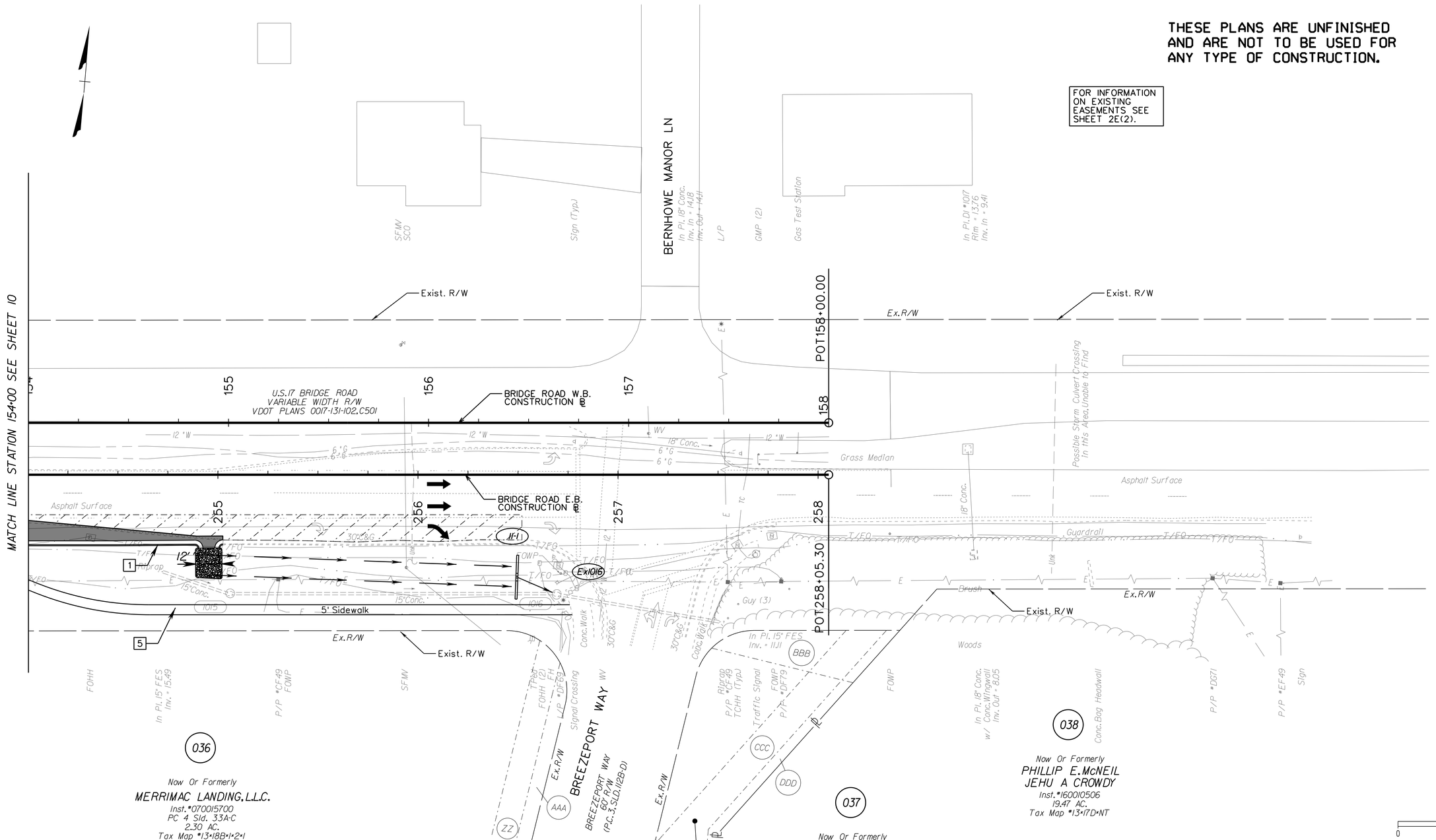
FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 154+00 - 158+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 11

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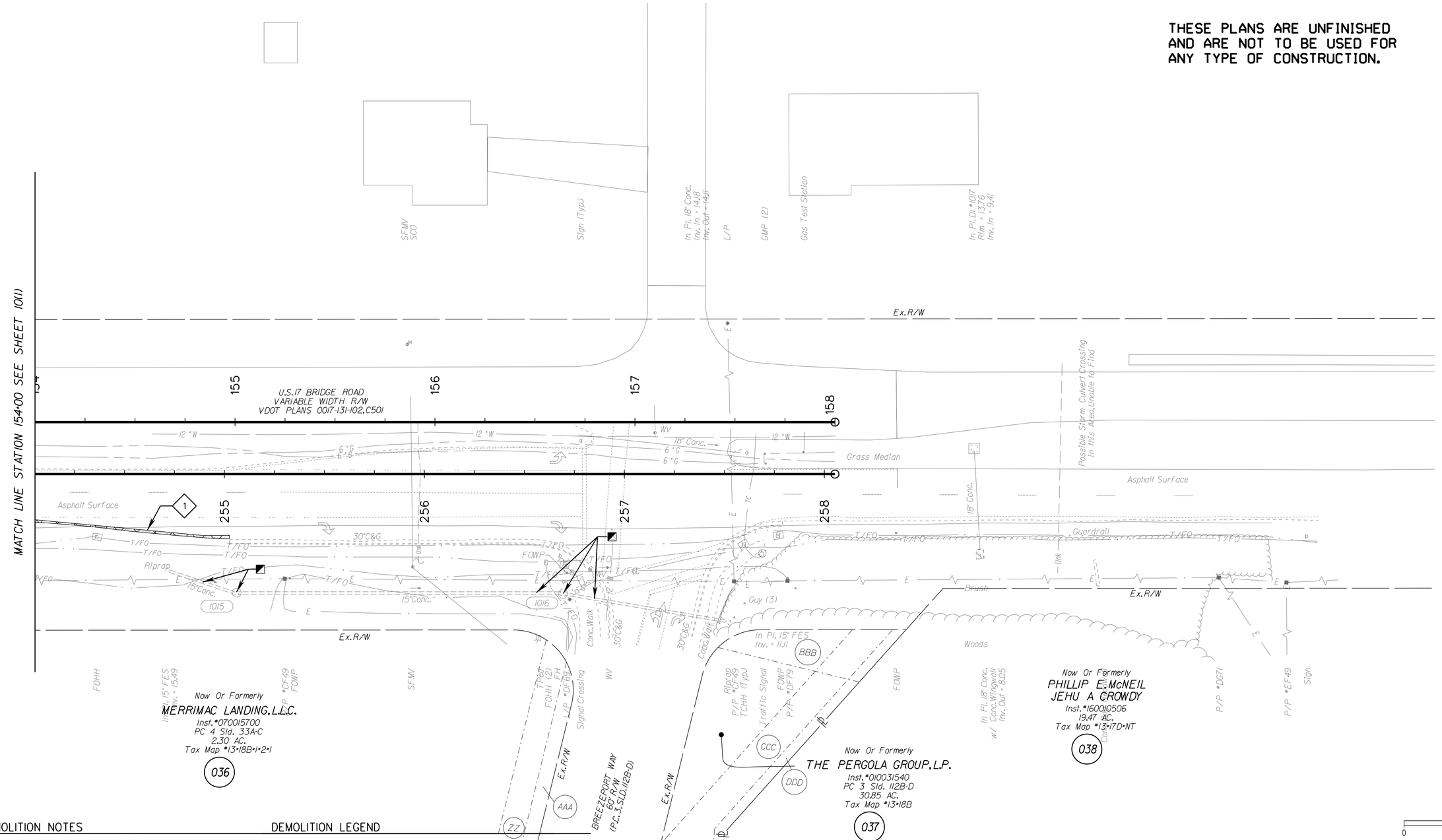

DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
PLAN STA 154+00 - 158+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	SHEET NO. 11(1)
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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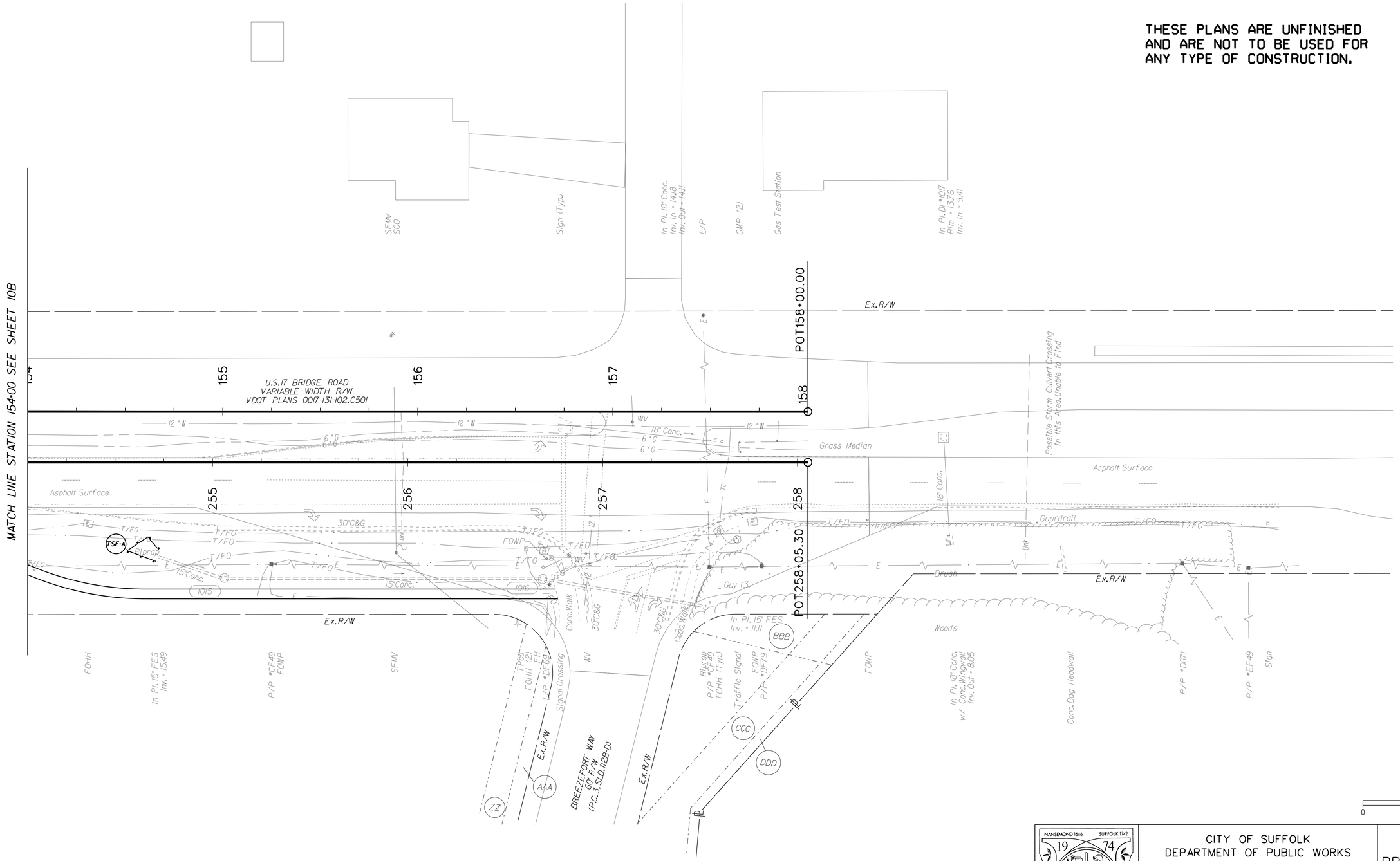

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 154+00 - 158+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	11B		

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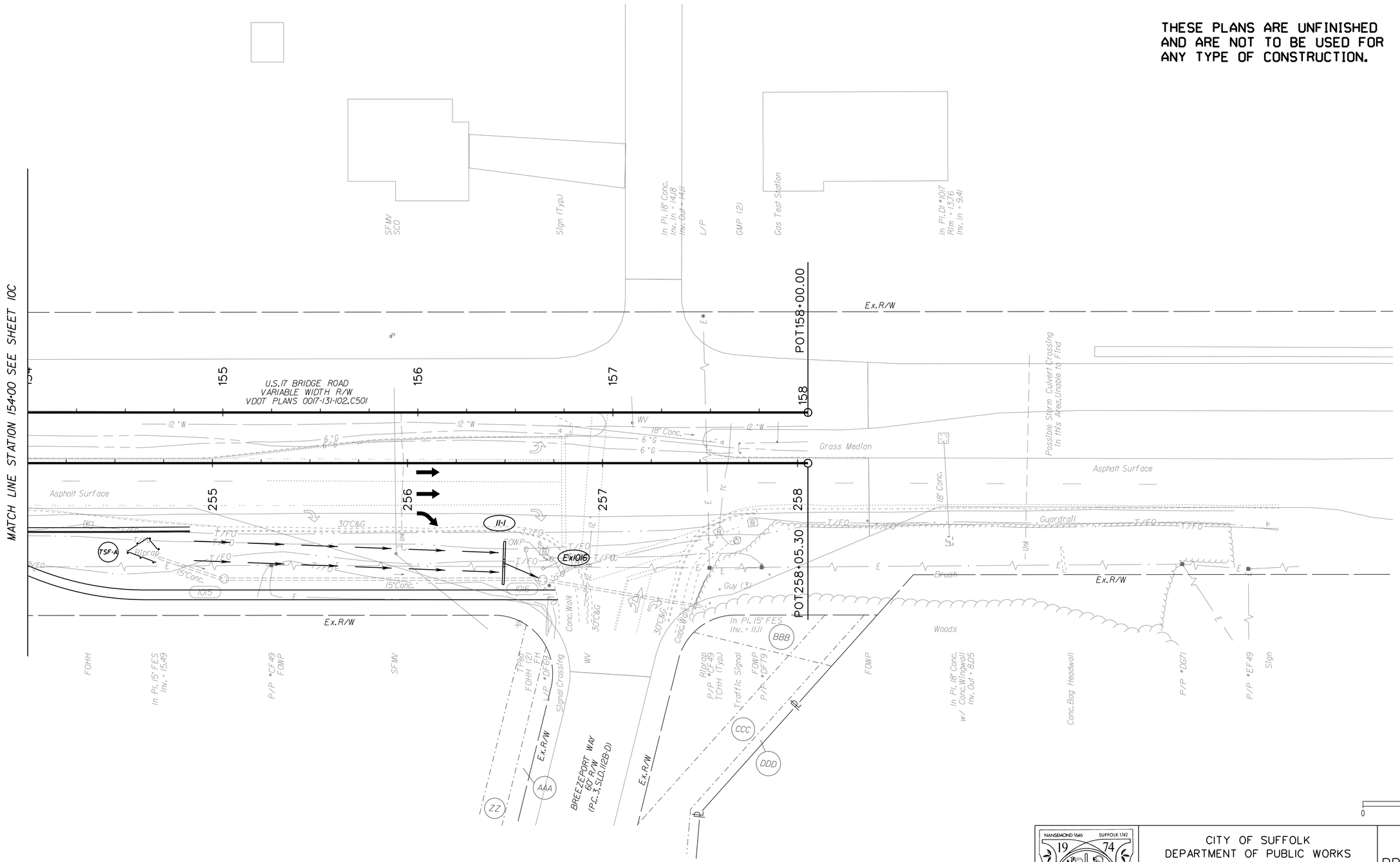

NANSEMOND 1665 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 154+00 - 158+00	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19 DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 11C

03:59 PM on May 10, 2019
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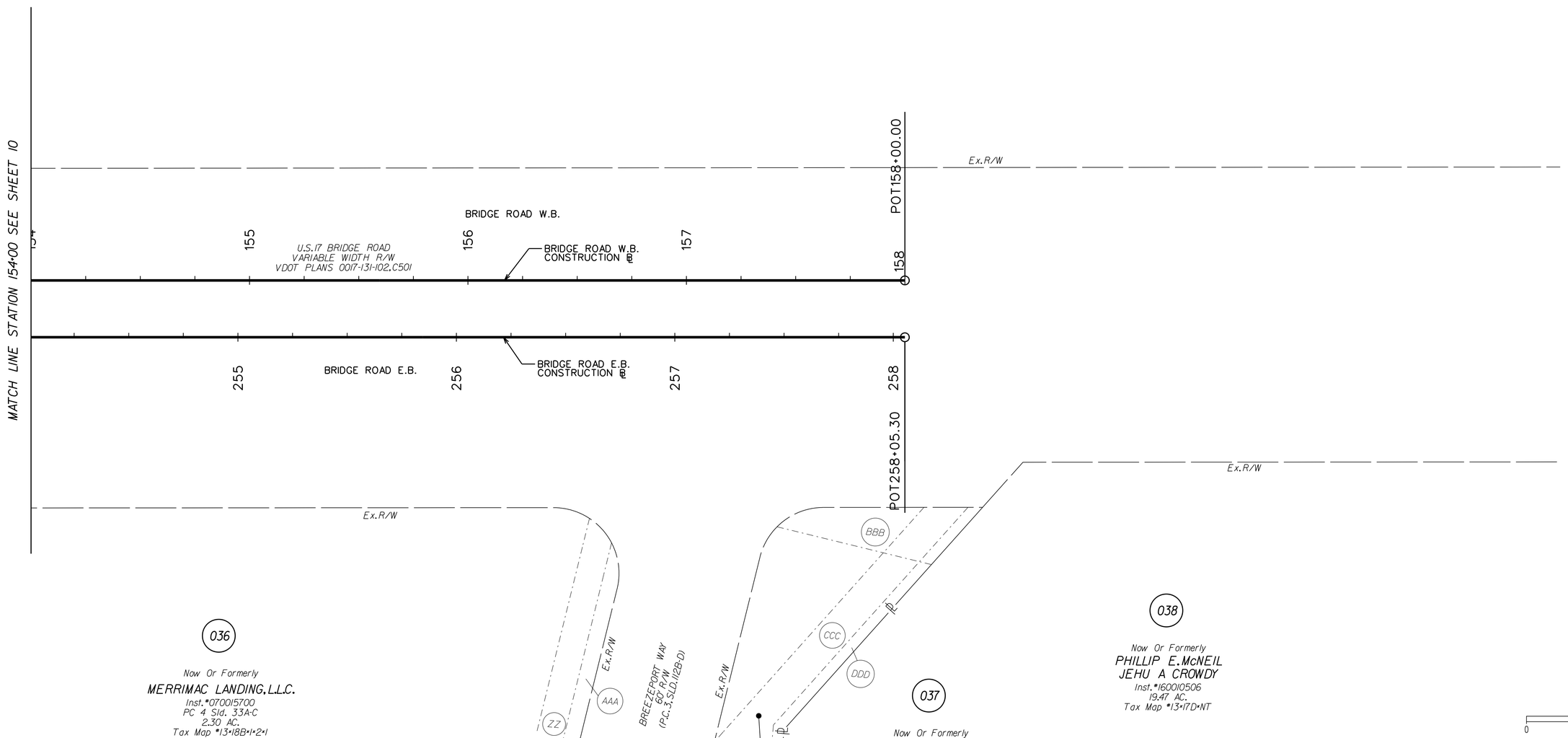

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 154+00 - 158+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 11RW

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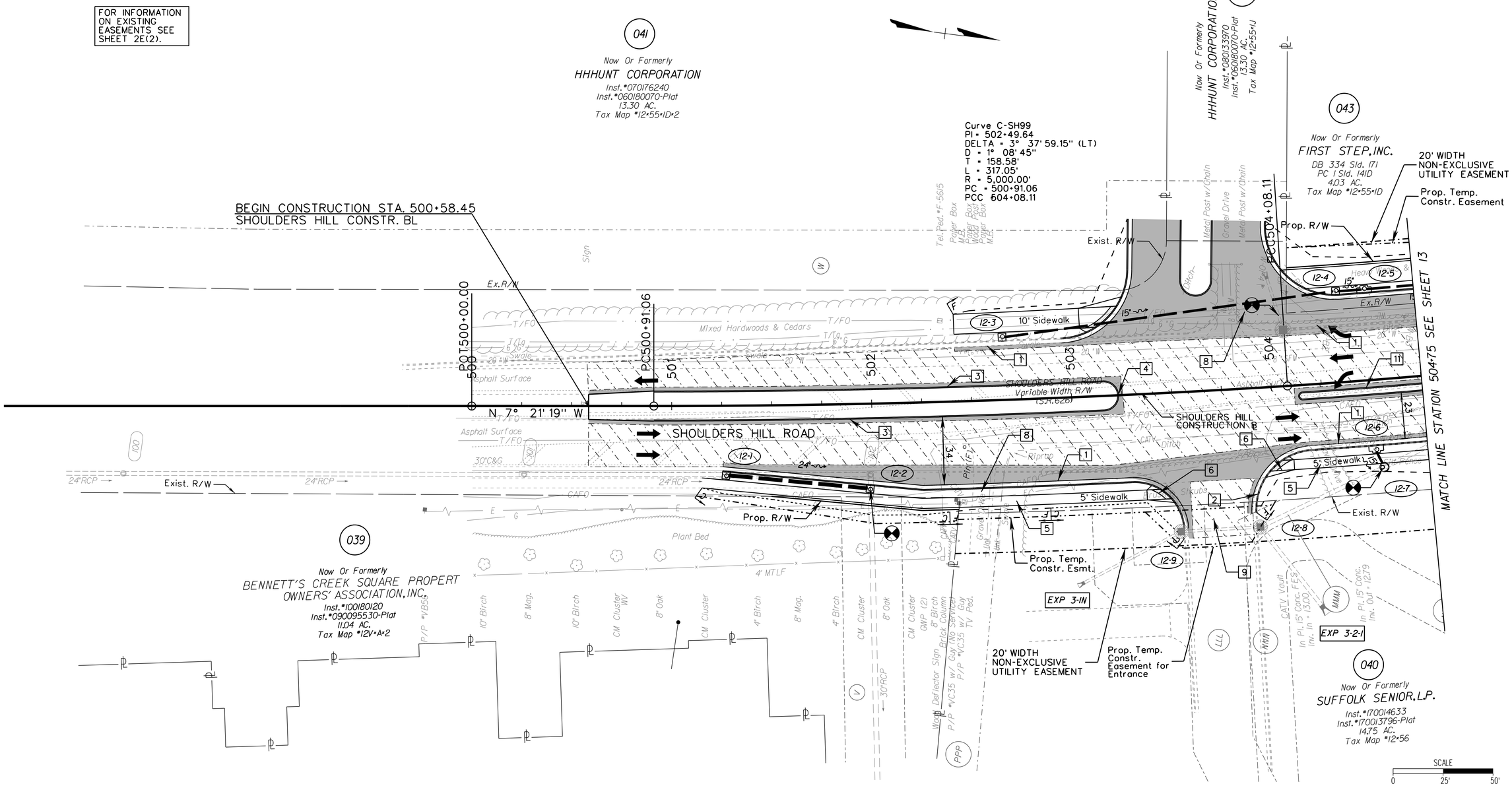
FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
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7. VDOT STD CG-12 (TYPE B)
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9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 500+00 - 504+75

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 12

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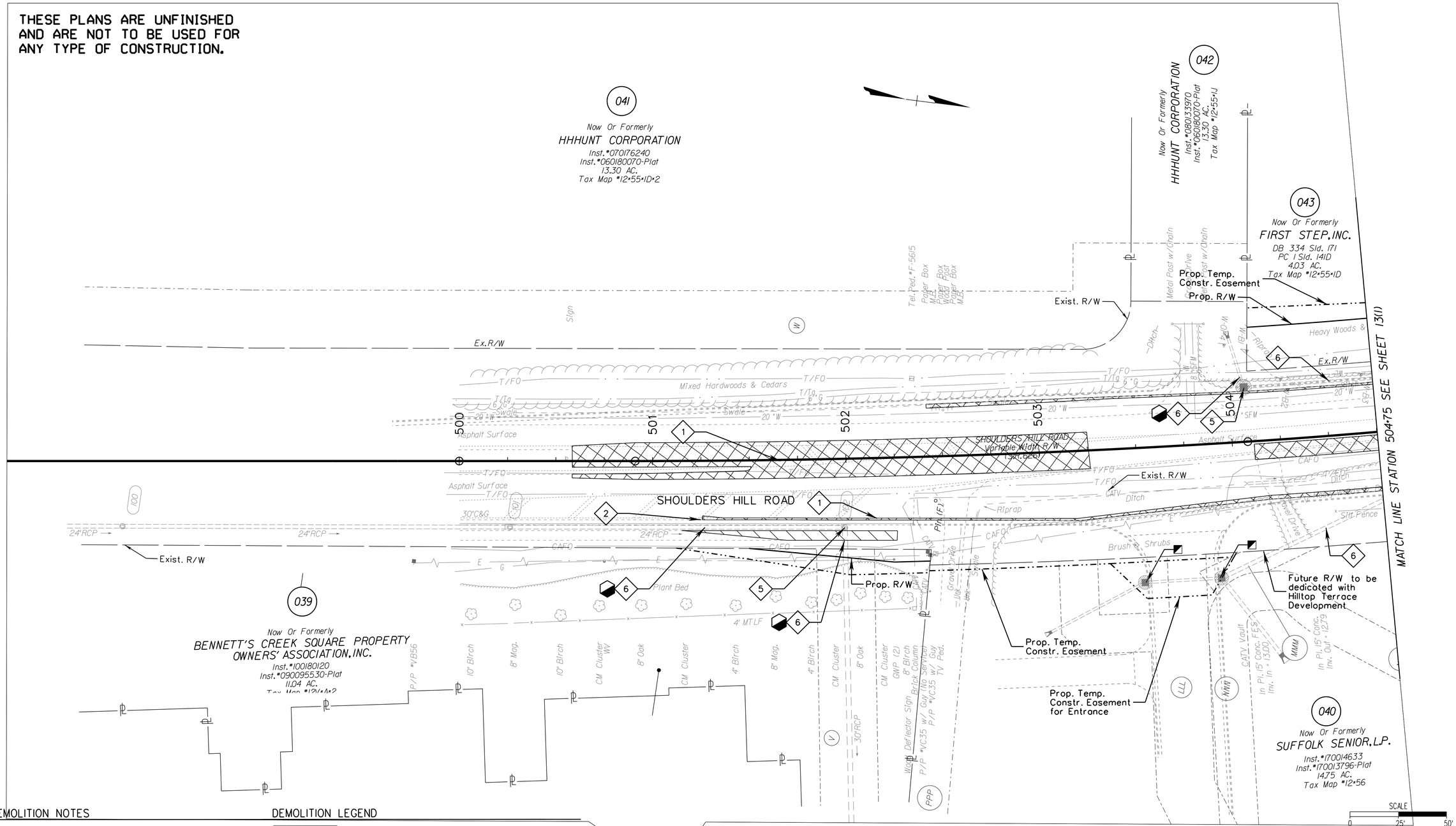

DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
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4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 500+00 - 504+75

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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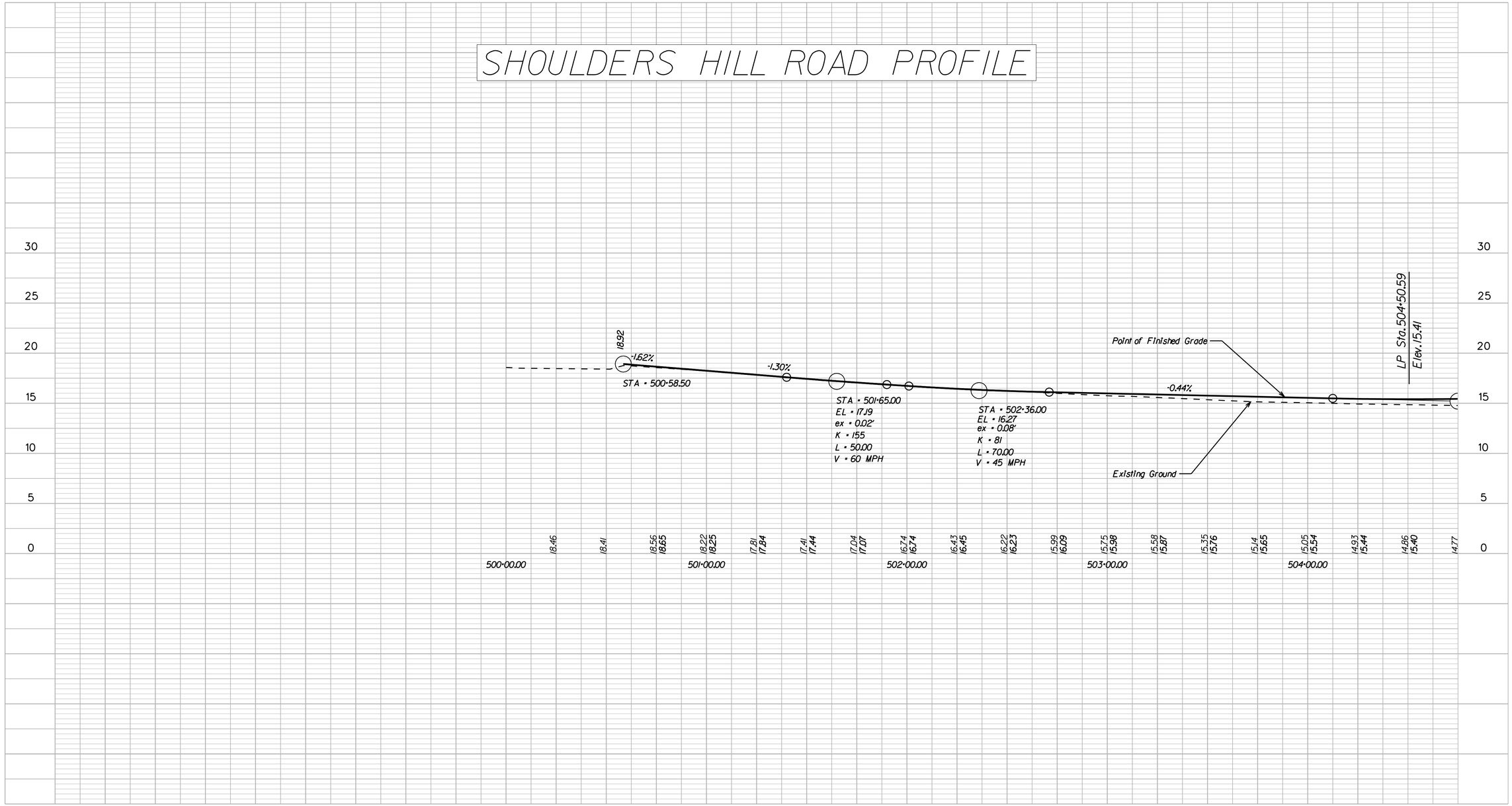
SHOULDERS HILL ROAD PROFILE



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 500+00 - 504+75

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 12A

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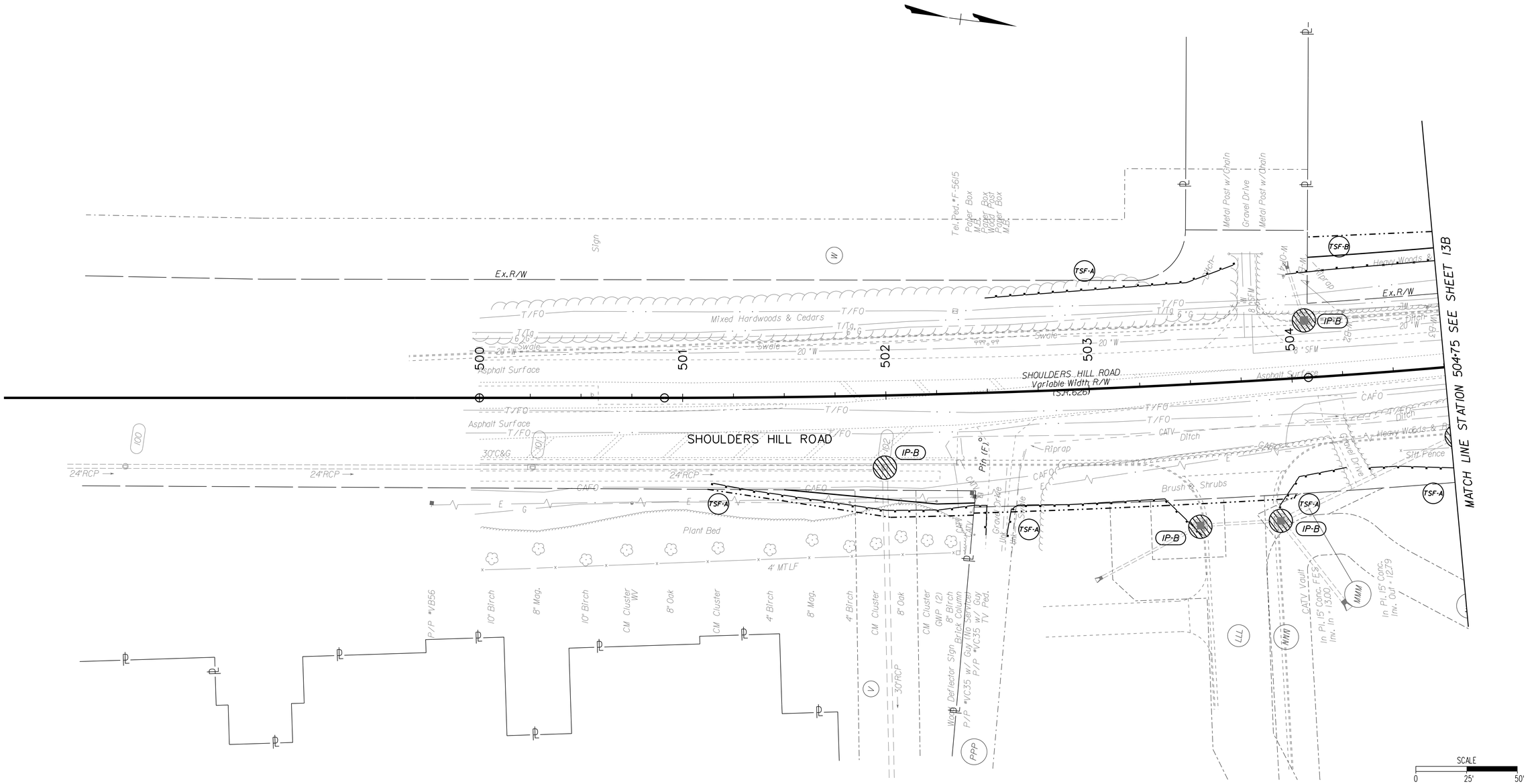

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 500+00 - 504+75	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19 DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 12B

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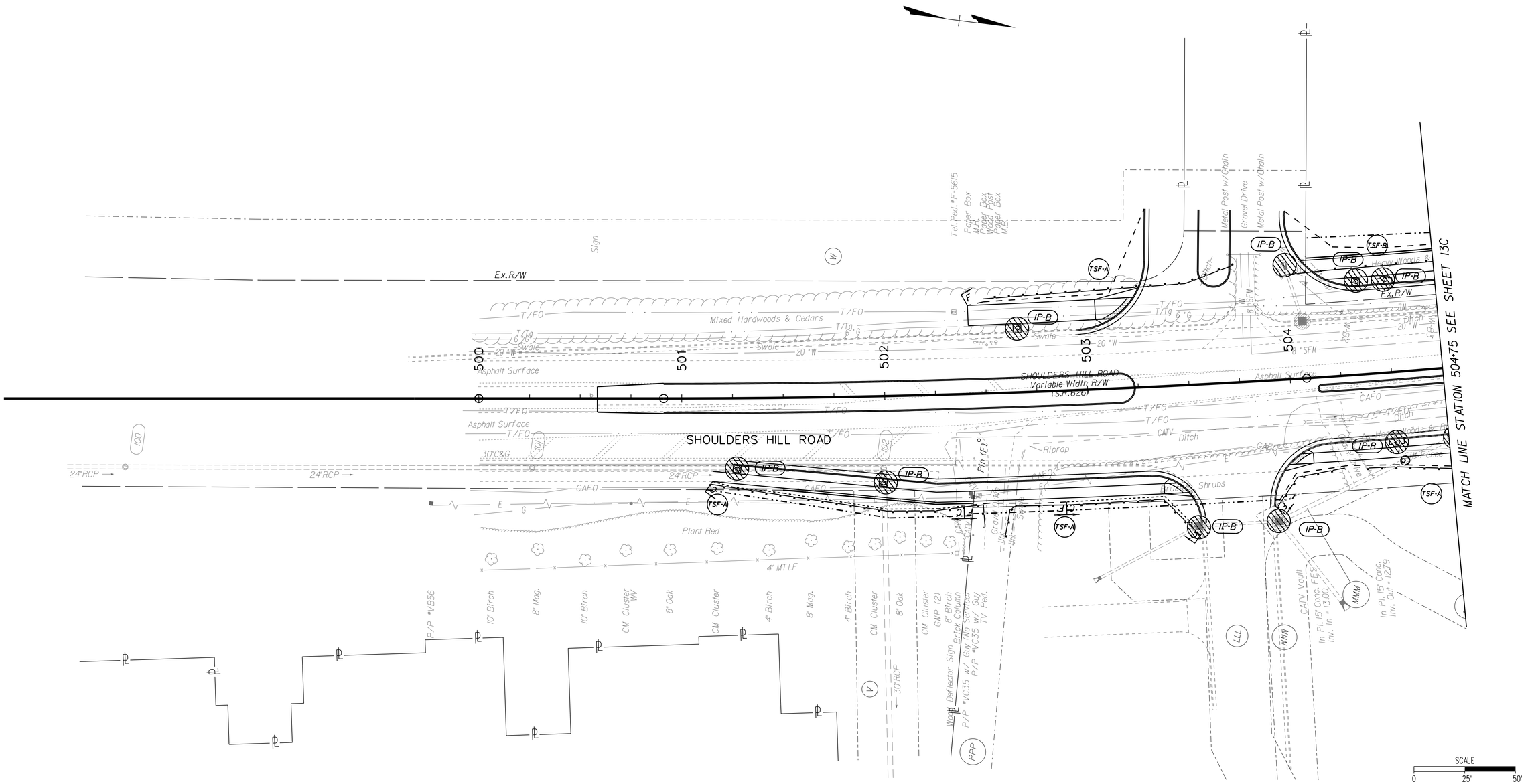

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 500+00 - 504+75	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 12C

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

041
Now Or Formerly
HHHUNT CORPORATION
Inst.#070176240
Inst.#060180070-Plat
13.30 AC.
Tax Map #12*55*1D*2

042
Now Or Formerly
HHHUNT CORPORATION
Inst.#080133970
Inst.#060180070-Plat
13.30 AC.
Tax Map #12*55*U

043
Now Or Formerly
FIRST STEP, INC.
DB 334 Sld. 171
PC 1 Sld. 141D
4.03 AC.
Tax Map #12*55*1D

Curve C-SH99
PI = 502+49.64
DELTA = 3° 37' 59.15" (LT)
D = 1° 08' 45"
T = 158.58'
L = 317.05'
R = 5,000.00'
PC = 500+91.06
PCC 504+08.11

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Prop. Temp. Constr. Easement

PCC504+08.11

Ex.R/W

Exist. R/W

RIGHT-OF-WAY TO BE ACQUIRED

POT500+00.00

PC500+91.06

500

501

502

503

504

SHOULDERS HILL ROAD
Variable Width R/W
(3.A.626)

N 7° 21' 19" W

SHOULDERS HILL CONSTRUCTION ℄

SHOULDERS HILL ROAD

RIGHT-OF-WAY TO BE ACQUIRED

Pin (F)°

MATCH LINE SEE SHEET 13RW

Exist. R/W

Exist. R/W

Prop. Temp. Constr. Easement

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Prop. Temp. Constr. Easmt. For Entrance

Prop. Temp. Constr. Easement

039
Now Or Formerly
BENNETT'S CREEK SQUARE PROPERTY OWNERS' ASSOCIATION, INC.
Inst.#100180120
Inst.#090095530-Plat
11.04 AC.
Tax Map #12V*A*2

040
Now Or Formerly
SUFFOLK SENIOR, L.P.
Inst.#170014633
Inst.#170013796-Plat
14.75 AC.
Tax Map #12*56

SCALE
0 25' 50'

FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 500+00 - 504+75

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 12RW

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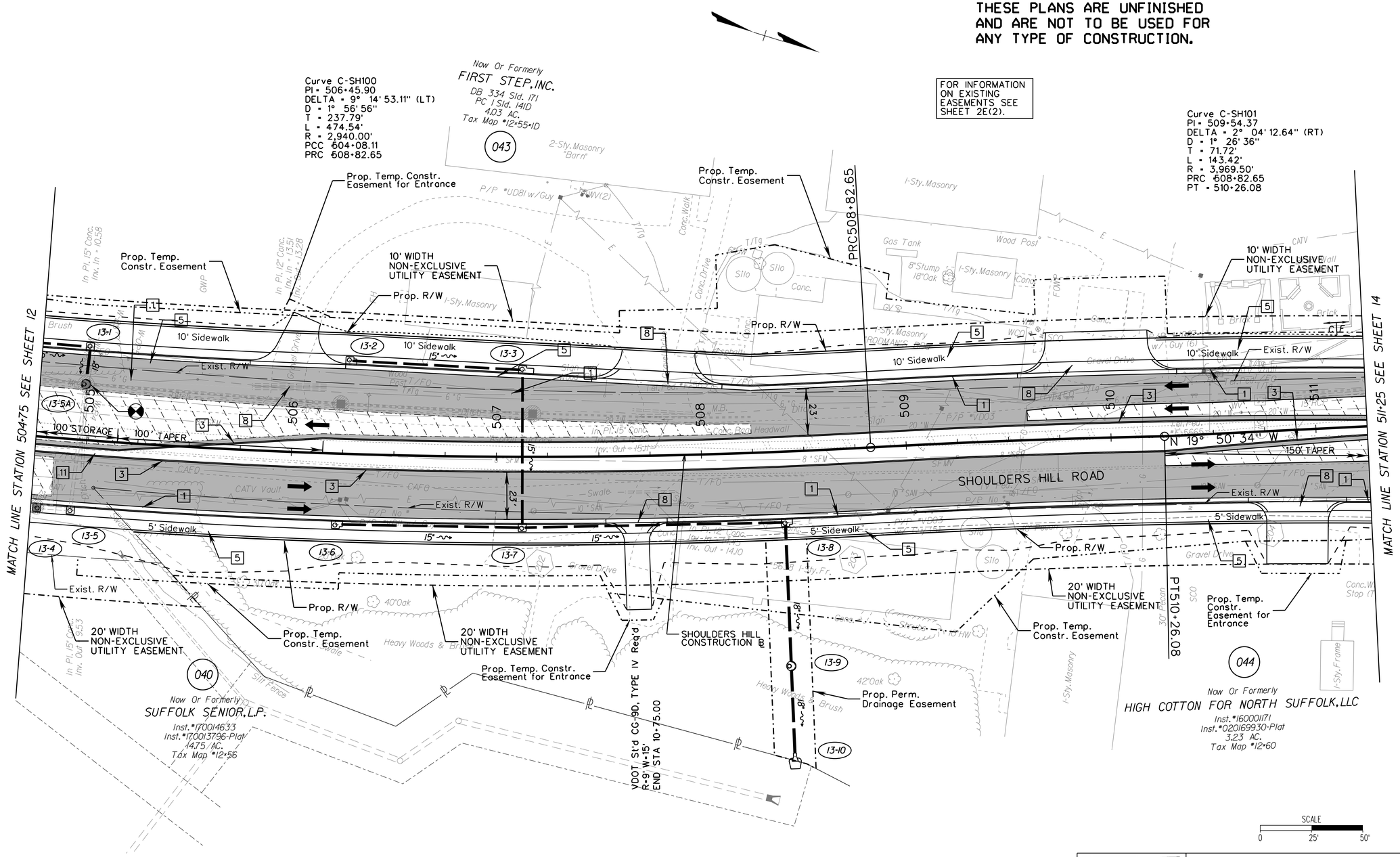
FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).

Curve C-SH100
PI = 506+45.90
DELTA = 9° 14' 53.11" (LT)
D = 1° 56' 56"
T = 237.79'
L = 474.54'
R = 2,940.00'
PCC 504+08.11
PRC 508+82.65

Curve C-SH101
PI = 509+54.37
DELTA = 2° 04' 12.64" (RT)
D = 1° 26' 36"
T = 71.72'
L = 143.42'
R = 3,969.50'
PRC 508+82.65
PT = 510+26.08



CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
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7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts
F _ _ Denotes Construction Limits in Fills
Denotes New Asphalt Pavement
Denotes Variable Depth Mill and Overlay of Pavement

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 504+75 - 511+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

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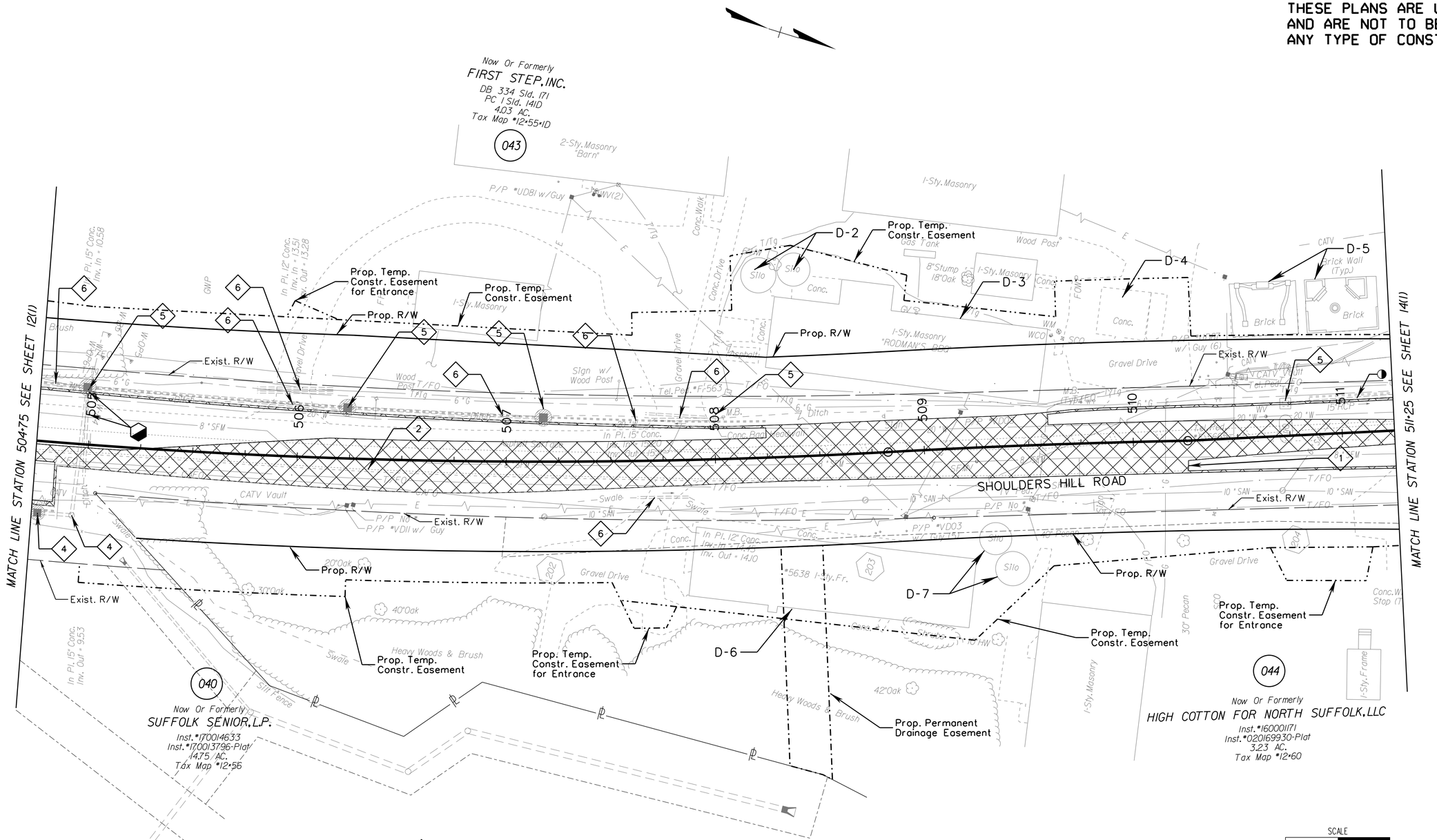

DEMOLITION NOTES

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2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
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SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 504+75 - 511+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 13(1)

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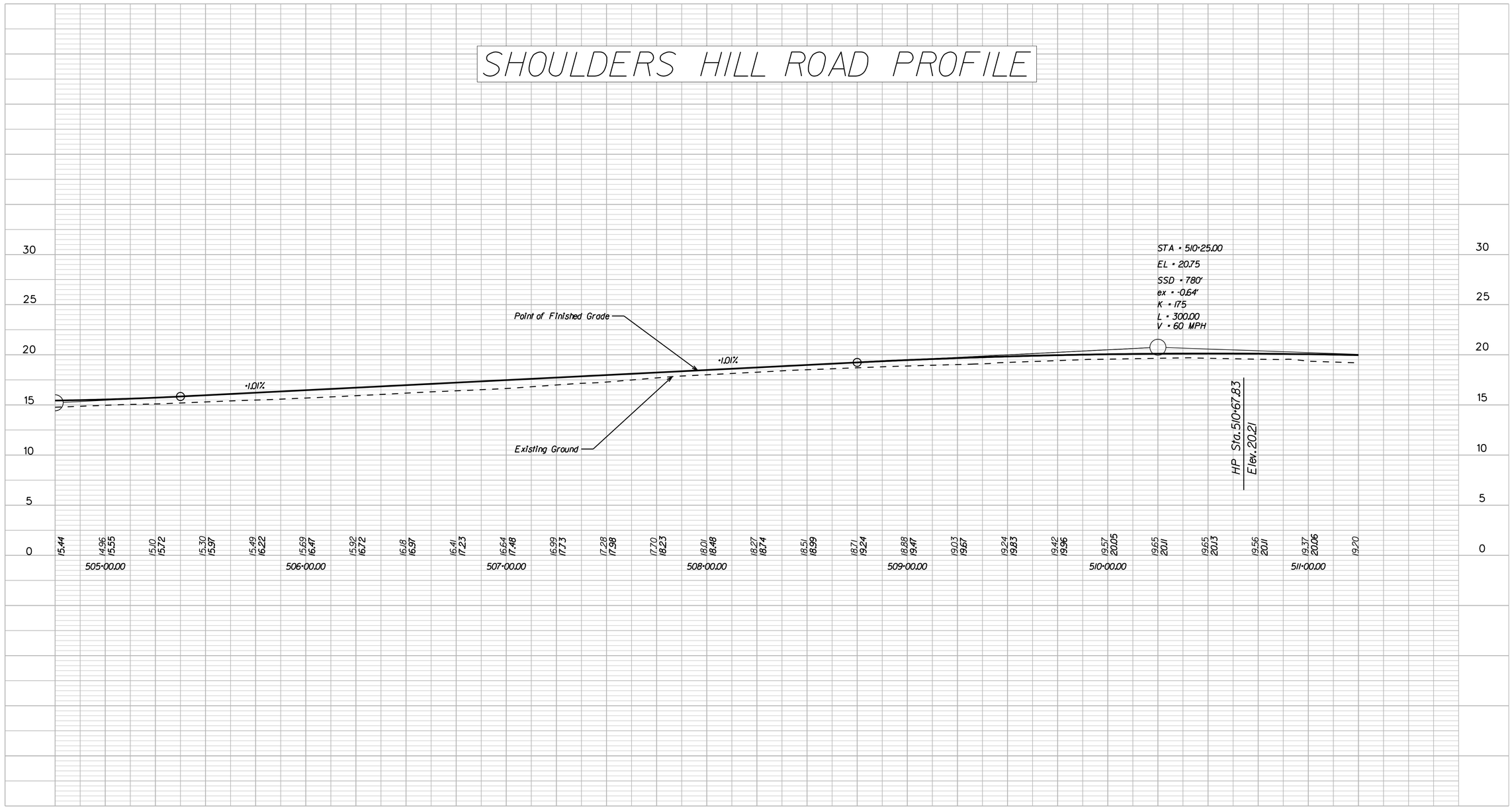
SHOULDERS HILL ROAD PROFILE



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 504+75 - 511+25

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO.
DATE 5/10/19	APPROVED BY	WMP	13A

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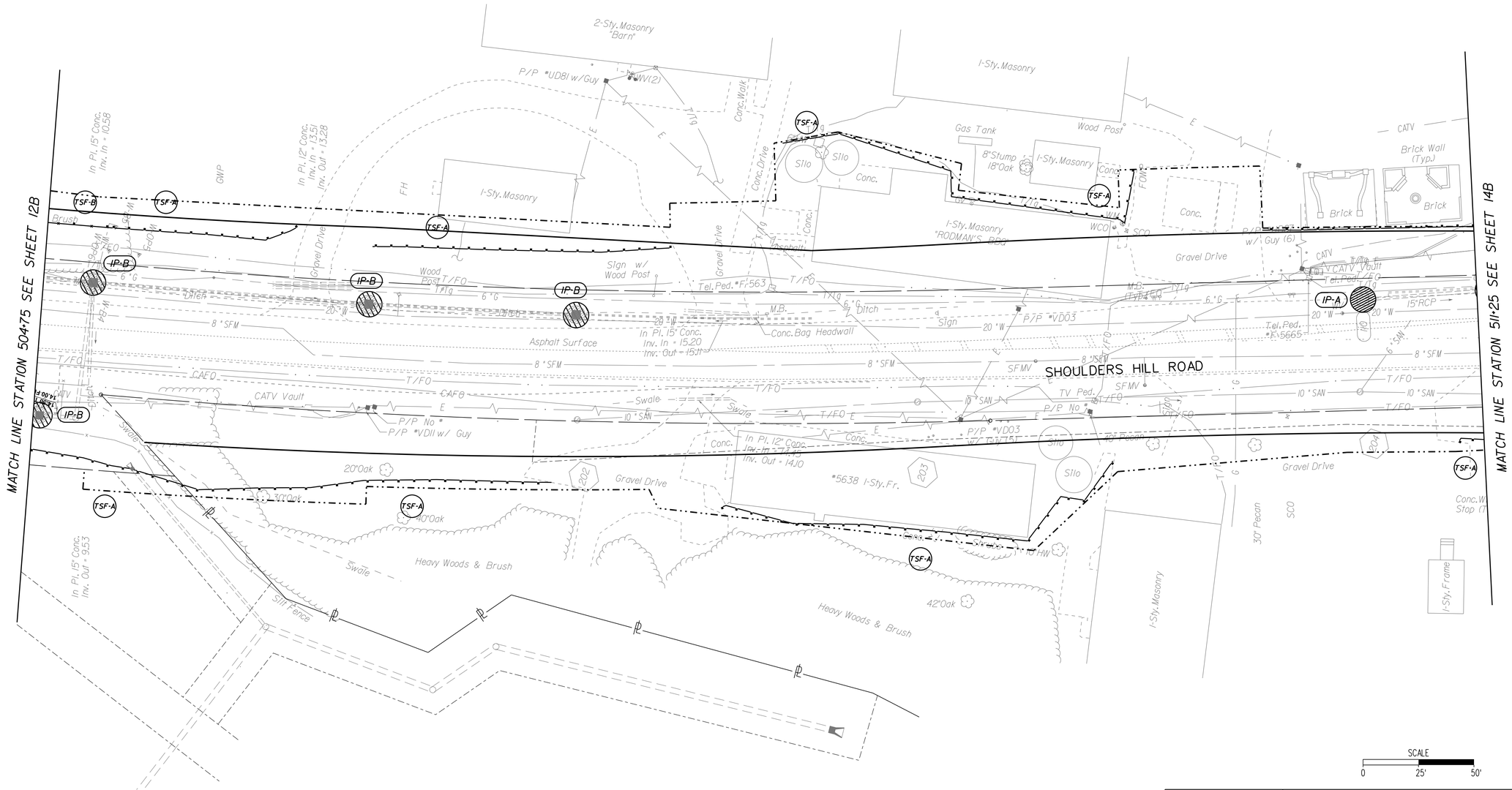

NANSEMOND 1646 SUFFOLK 1742 — 1974 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 1 STA 504+75 - 511+25		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY MSM DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 13B

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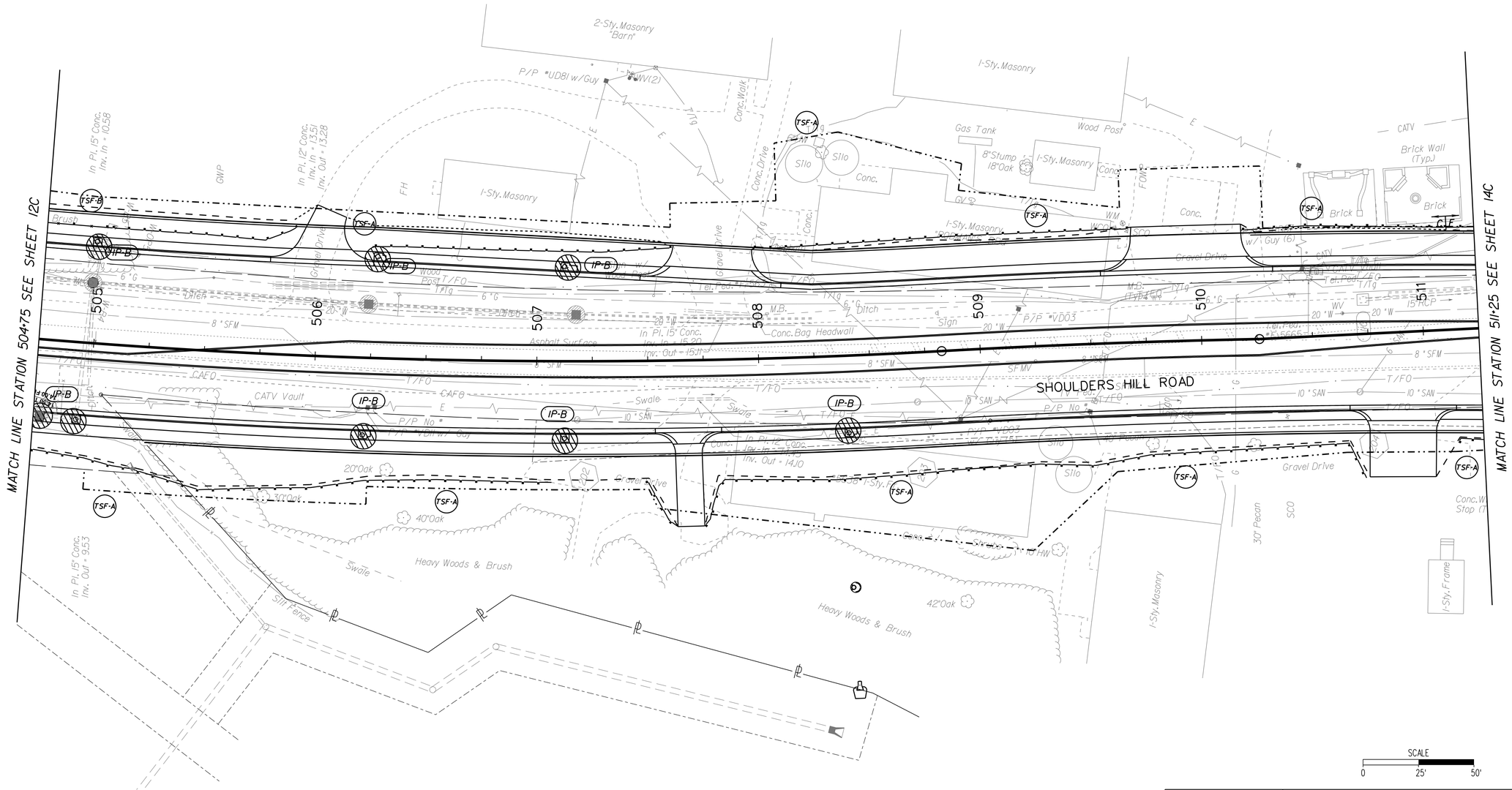
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 504+75 - 511+25		
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM DESIGNED BY MSM	
	DATE 5/10/19	APPROVED BY WMP	SHEET NO. 13C

40003 PM
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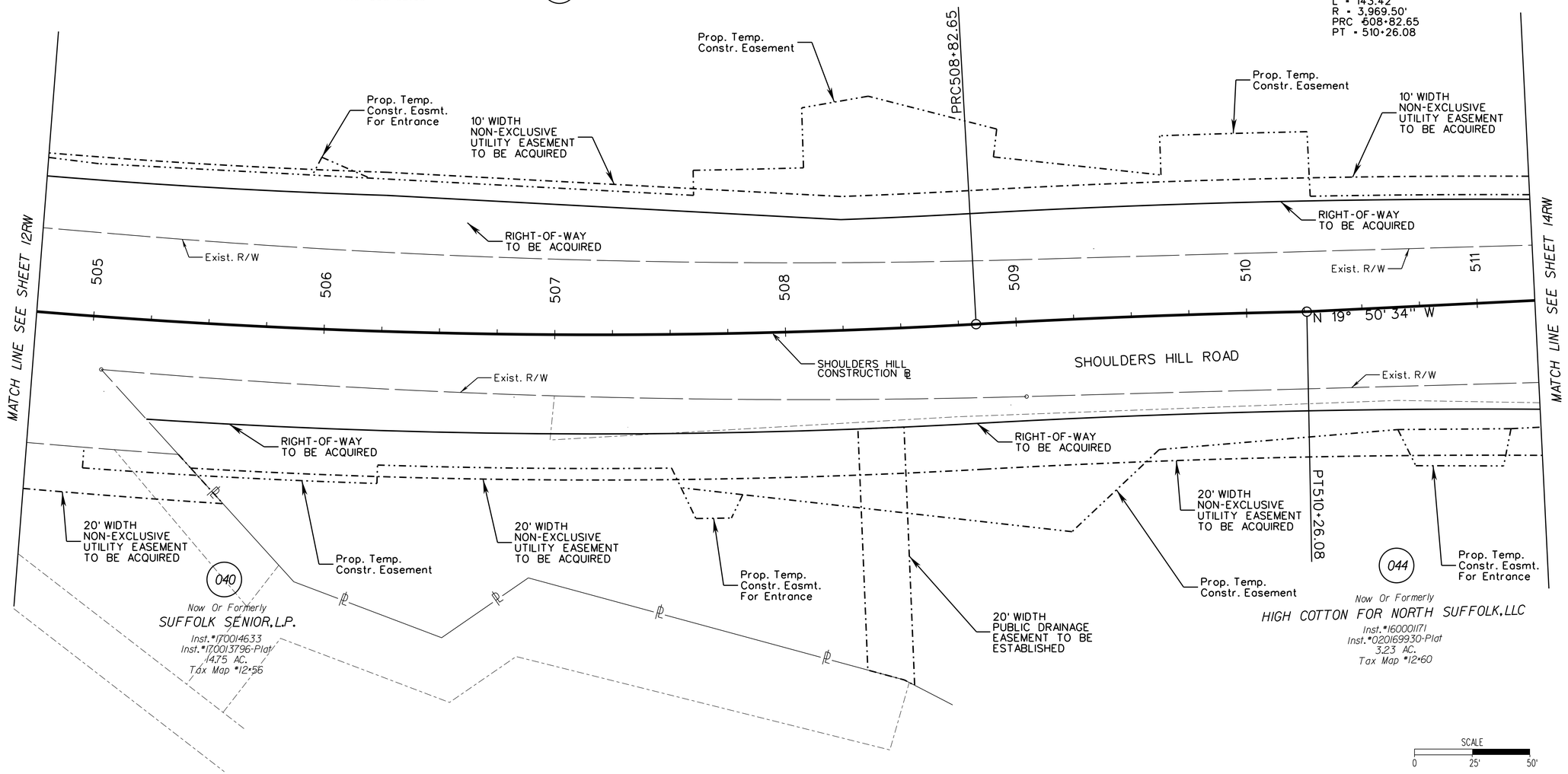
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

Curve C-SH100
PI = 506+45.90
DELTA = 9° 14' 53.11" (LT)
D = 1° 56' 56"
T = 237.79'
L = 474.54'
R = 2,940.00'
PCC 504+08.11
PRC 508+82.65

Now Or Formerly
FIRST STEP, INC.
DB 334 Sld. 171
PC 1 Sld. 141D
4.03 AC.
Tax Map #12-55-1D
043

Curve C-SH101
PI = 509+54.37
DELTA = 2° 04' 12.64" (RT)
D = 1° 26' 36"
T = 71.72'
L = 143.42'
R = 3,969.50'
PRC 508+82.65
PT = 510+26.08



FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 504+75 - 511+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 13RW

40004 PM
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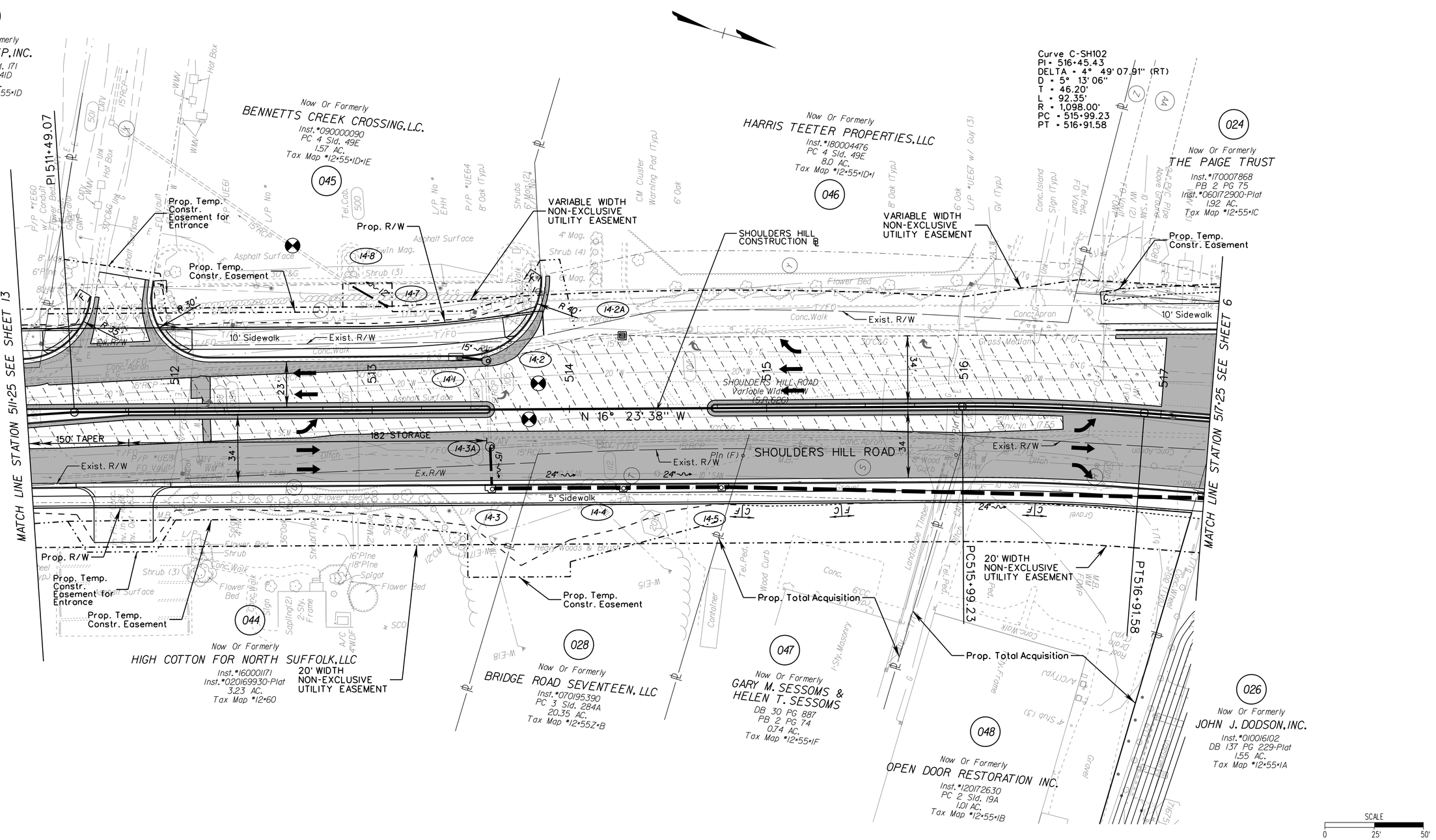

CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

NANSEMOND 1665 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 511+25 - 517+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 14

04:00 PM on May 10,2019
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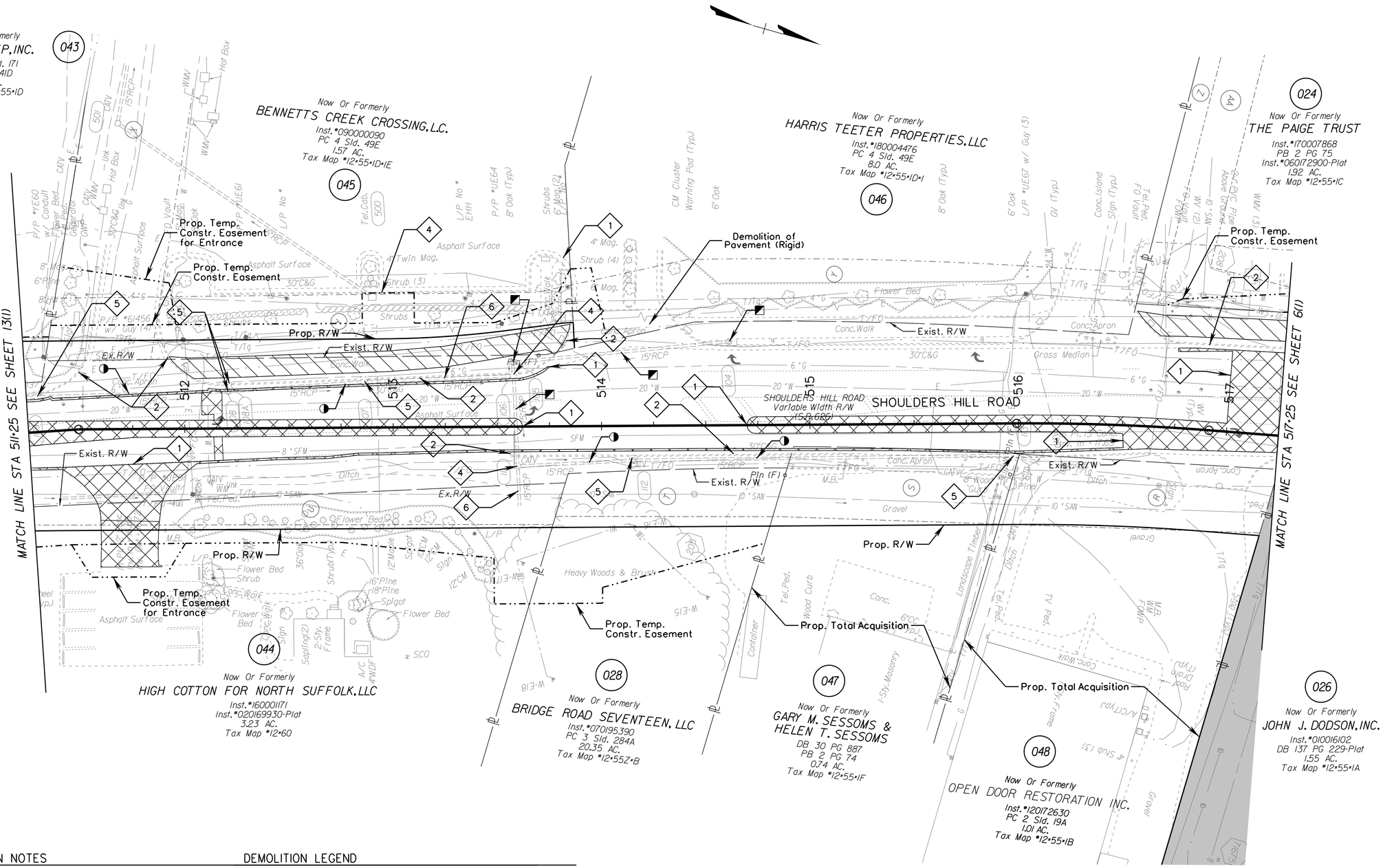

DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pipe (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 511+25 - 517+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 14(1)

04:00 PM on May 10, 2019
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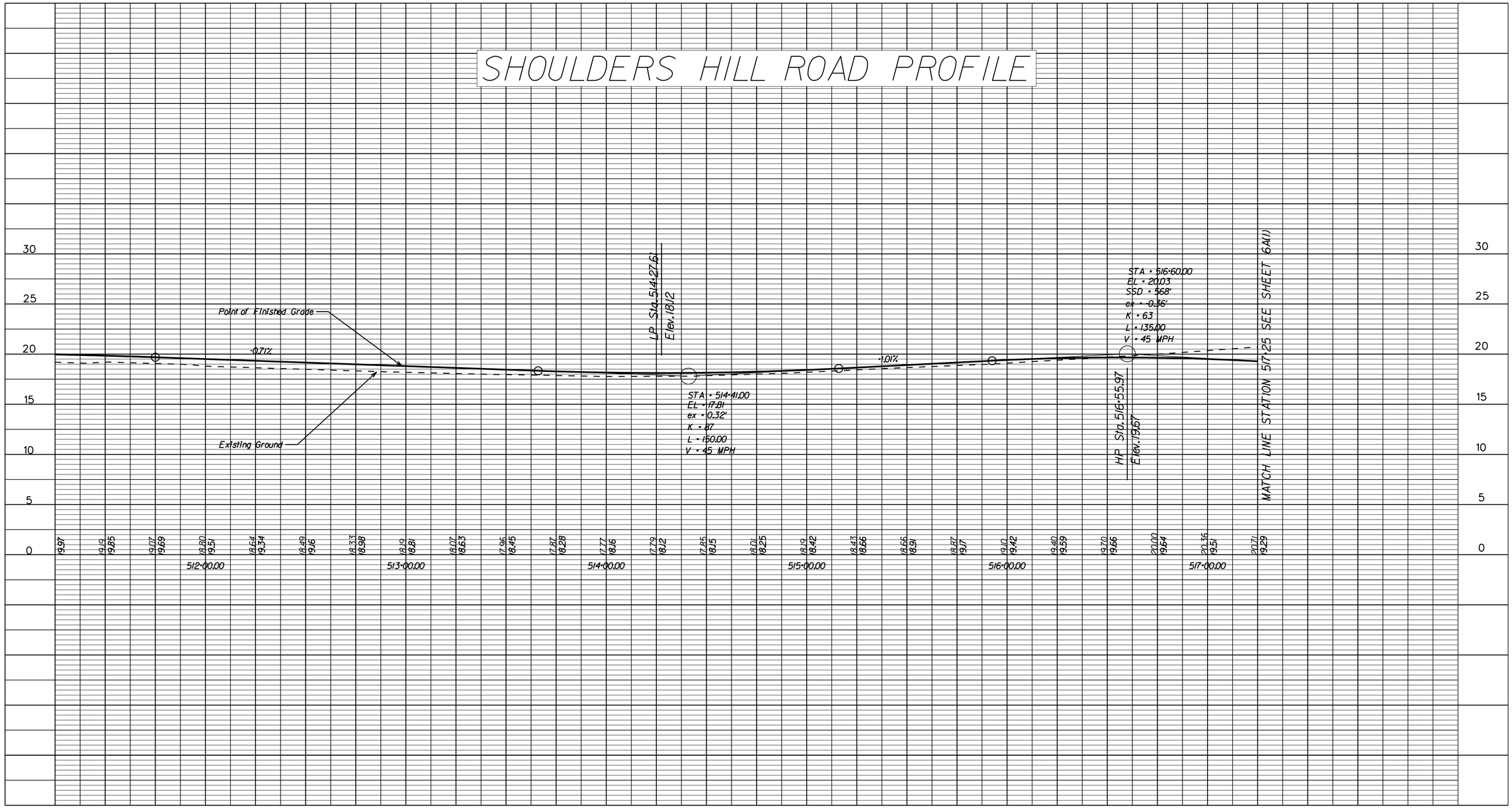
SHOULDERS HILL ROAD PROFILE



SCALE: HORIZ - 1" = 25'

SCALE: VERT - 1" = 5'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 511+25 - 517+25

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	
DATE 5/10/19	APPROVED BY	WMP	SHEET NO. 14A

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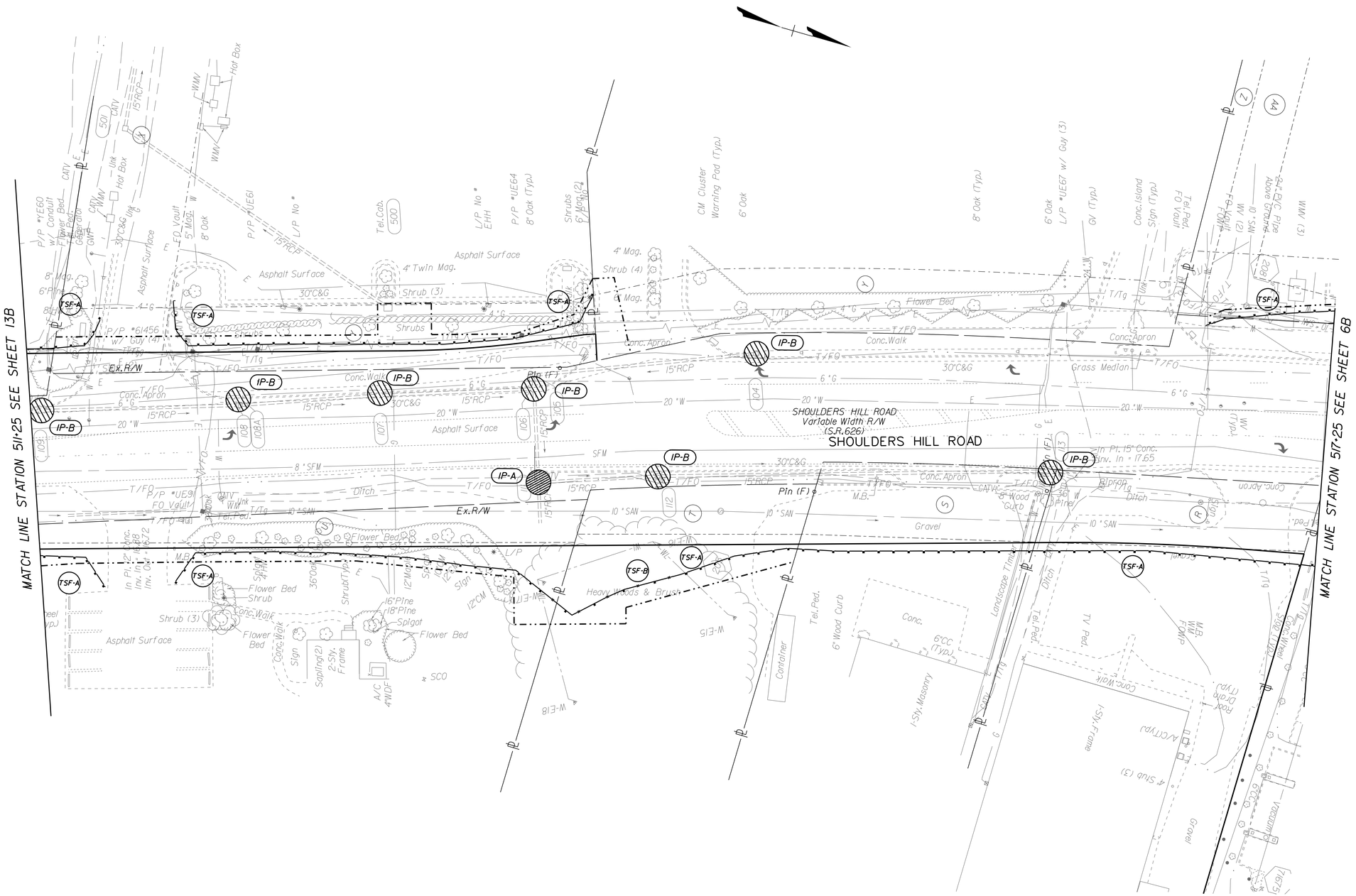

NANSEMOND 1565 SUFFOLK 1742
19 74
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 511+25 - 517+25

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	
DATE 5/10/19	APPROVED BY	WMP	SHEET NO. 14B

0400 PM on May 10,2019
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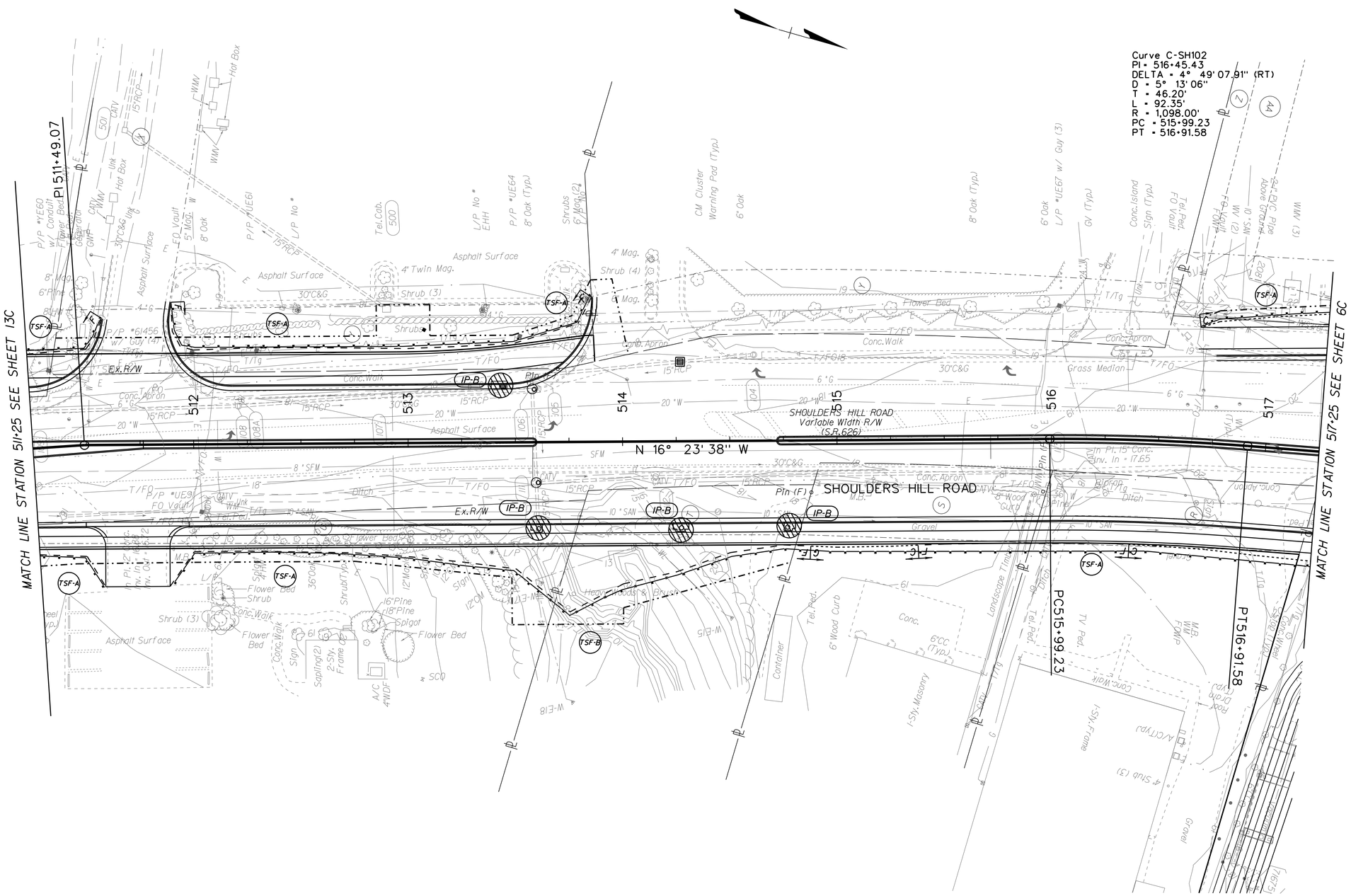

NANSEMOND 1565 SUFFOLK 1742
19 74
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 STA 511+25 - 517+25

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 14C
DATE 5/10/19	APPROVED BY	WMP	

0400 PM on May 10,2019
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043
Now Or Formerly
FIRST STEP, INC.
DB 334 Sld. 171
PC 1 Sld. 141D
4.03 AC.
Tax Map #12-55-1D

Now Or Formerly
BENNETTS CREEK CROSSING, L.C.
Inst.#090000090
PC 4 Sld. 49E
1.57 AC.
Tax Map #12-55-1D-1E
045

Now Or Formerly
HARRIS TEETER PROPERTIES, LLC
Inst.#180004476
PC 4 Sld. 49E
8.0 AC.
Tax Map #12-55-1D-1
046

Curve C-SH102
PI = 516+45.43
DELTA = 4° 49' 07.91" (RT)
D = 5° 13' 06"
T = 46.20'
L = 92.35'
R = 1,098.00'
PC = 515+99.23
PT = 516+91.58

024
Now Or Formerly
THE PAIGE TRUST
Inst.#170007868
PB 2 PG 75
Inst.#060172900-Plat
1.92 AC.
Tax Map #12-55-1C

PI 511+49.07

Prop. Temp. Constr. Easmt. For Entrance

Prop. Temp. Constr. Easement

VARIABLE WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Prop. Temp. Constr. Easement

VARIABLE WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Prop. R/W

Ex. R/W

Exist. R/W

Pin (F)

Exist. R/W

SHOULDERS HILL CONSTRUCTION ℄

SHOULDERS HILL ROAD
Variable Width R/W
(S.R.626)

512 513 514 515 516 517

N 16° 23' 38" W

MATCH LINE STA.511+25 SEE SHEET 13RW

MATCH LINE STA.517+25 SEE SHEET 6RW

Exist. R/W

Pin (F)

Exist. R/W

Pin (F)

Exist. R/W

Ex. R/W

RIGHT-OF-WAY TO BE ACQUIRED

PC515+99.23

PT516+91.58

20' WIDTH NON-EXCLUSIVE UTILITY EASEMENT TO BE ACQUIRED

Prop. Temp. Constr. Easmt. For Entrance

044
Now Or Formerly
HIGH COTTON FOR NORTH SUFFOLK, LLC
Inst.#160001171
Inst.#020169930-Plat
3.23 AC.
Tax Map #12-60

Prop. Temp. Constr. Easement

028
Now Or Formerly
BRIDGE ROAD SEVENTEEN, LLC
Inst.#070195390
PC 3 Sld. 284A
20.35 AC.
Tax Map #12-55Z-B

RESIDUAL PROPERTY TO BE ACQUIRED

047
Now Or Formerly
GARY M. SESSOMS & HELEN T. SESSOMS
DB 30 PG 887
PB 2 PG 74
0.74 AC.
Tax Map #12-55-1F

RESIDUAL PROPERTY TO BE ACQUIRED

048
Now Or Formerly
OPEN DOOR RESTORATION INC.
Inst.#120172630
PC 2 Sld. 19A
1.01 AC.
Tax Map #12-55-1B

026
Now Or Formerly
JOHN J. DODSON, INC.
Inst.#010016102
DB 137 PG 229-Plat
1.55 AC.
Tax Map #12-55-1A

RIGHT-OF-WAY TO BE ACQUIRED

SCALE
0 25' 50'

NANSEMOND 1565 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 511+25 - 517+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 14RW

0400 PM on May 10,2019
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THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

FOR INFORMATION ON EXISTING EASEMENTS SEE SHEET 2E(2).

CONSTRUCTION NOTES

1. VDOT STD CG-6
2. VDOT RAD. CG-6
3. VDOT STD CG-2
4. VDOT RAD. CG-2
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE A)
7. VDOT STD CG-12 (TYPE B)
8. ENTRANCE GUTTER VDOT STD CG-9D
9. VDOT STD CG-11 ENTRANCE
10. VDOT STD CONCRETE GRAVITY RETAINING WALL RW-3
11. VDOT STD MS-1A
12. VDOT STD EC-1, CLASS A1
13. VDOT STD EC-1, CLASS I
14. VDOT STD CG-7

LEGEND

C ..... Denotes Construction Limits in Cuts

F _ _ Denotes Construction Limits in Fills

Denotes New Asphalt Pavement

Denotes Variable Depth Mill and Overlay of Pavement

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PLAN SHEET STA 521+50 - 524+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 15

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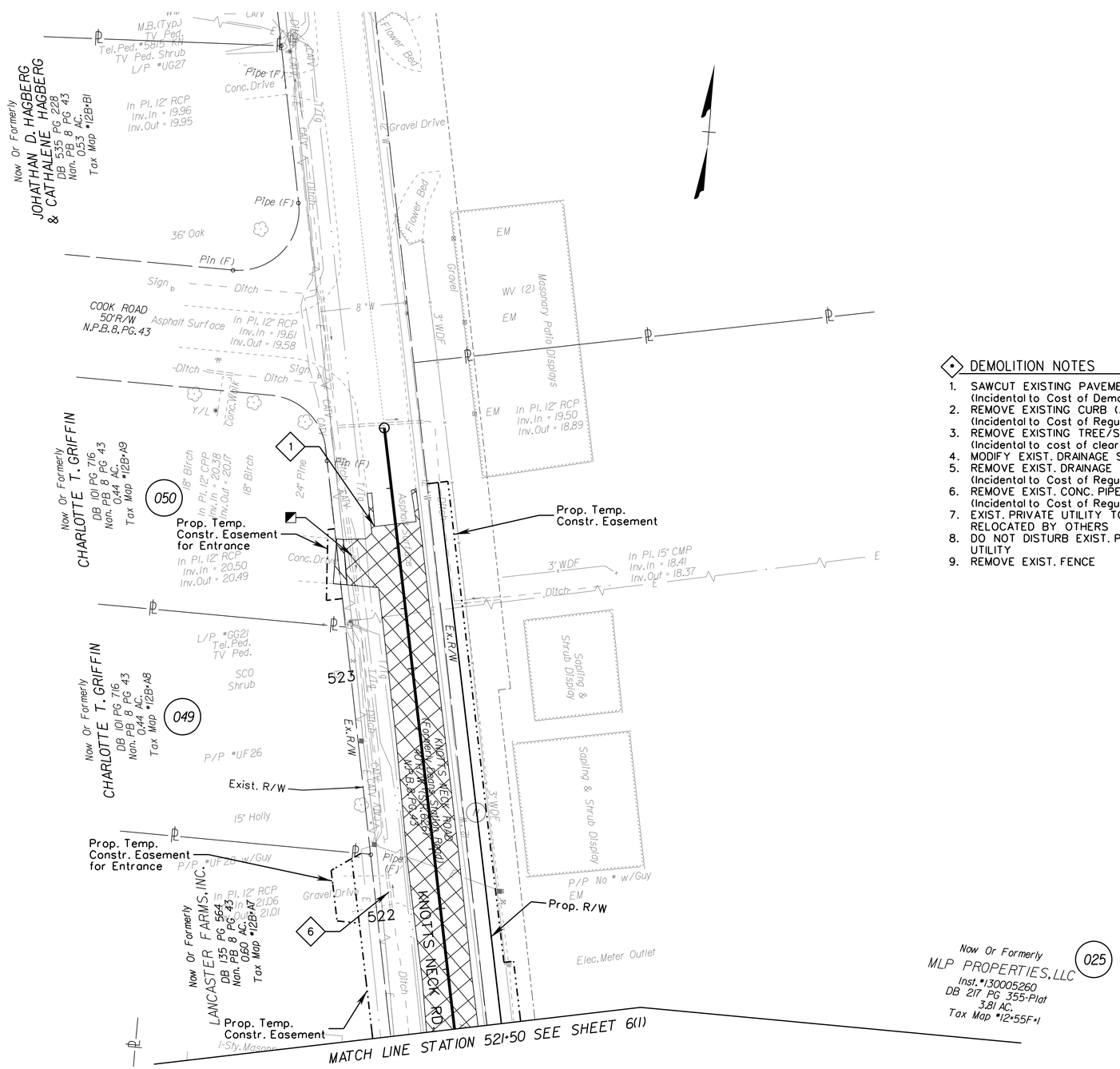
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



DEMOLITION NOTES

1. SAWCUT EXISTING PAVEMENT/CONCRETE (Incidental to Cost of Demo. of Pavement)
2. REMOVE EXISTING CURB (AND GUTTER) (Incidental to Cost of Regular Excavation)
3. REMOVE EXISTING TREE/SHRUB (Incidental to cost of clearing and grubbing)
4. MODIFY EXIST. DRAINAGE STRUCTURE
5. REMOVE EXIST. DRAINAGE STRUCTURE (Incidental to Cost of Regular Excavation)
6. REMOVE EXIST. CONC. PIPE (Incidental to Cost of Regular Excavation)
7. EXIST. PRIVATE UTILITY TO BE RELOCATED BY OTHERS
8. DO NOT DISTURB EXIST. PRIVATE UTILITY
9. REMOVE EXIST. FENCE

DEMOLITION LEGEND

- Denotes Demolition of Pavement (Flexible)
- Denotes Demolition of Concrete (Incidental to Cost of Regular Excavation)
- Denotes Clearing Parcel
- Denotes "Remove to"
- Abandoned Existing Drainage Structure or Pip (Paid for in CY Flowable Fill)
- Drainage Structure or Pipe To be Cleaned

SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
DEMOLITION PLAN
STA 521+50 - 524+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 15(1)

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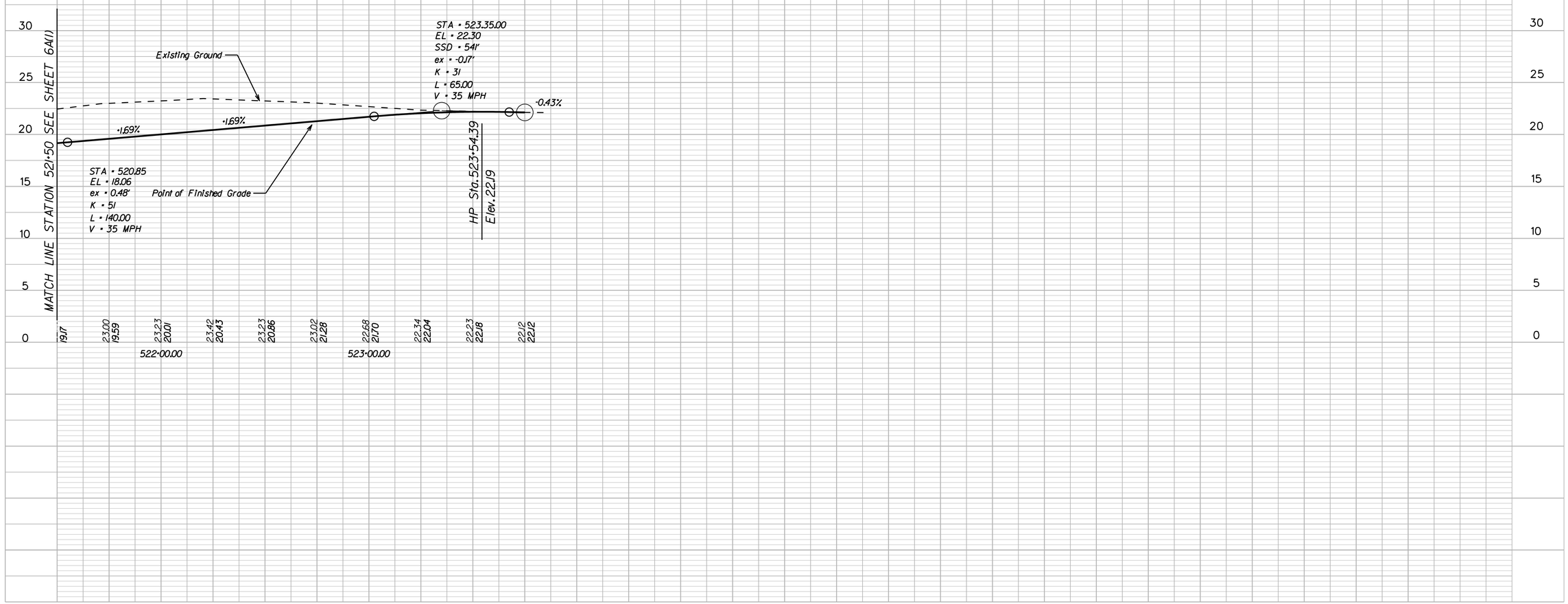
SHOULDERS HILL ROAD PROFILE



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PROFILE SHEET STA 521+50 - 524+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 15A

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THESE PLANS ARE UNFINISHED
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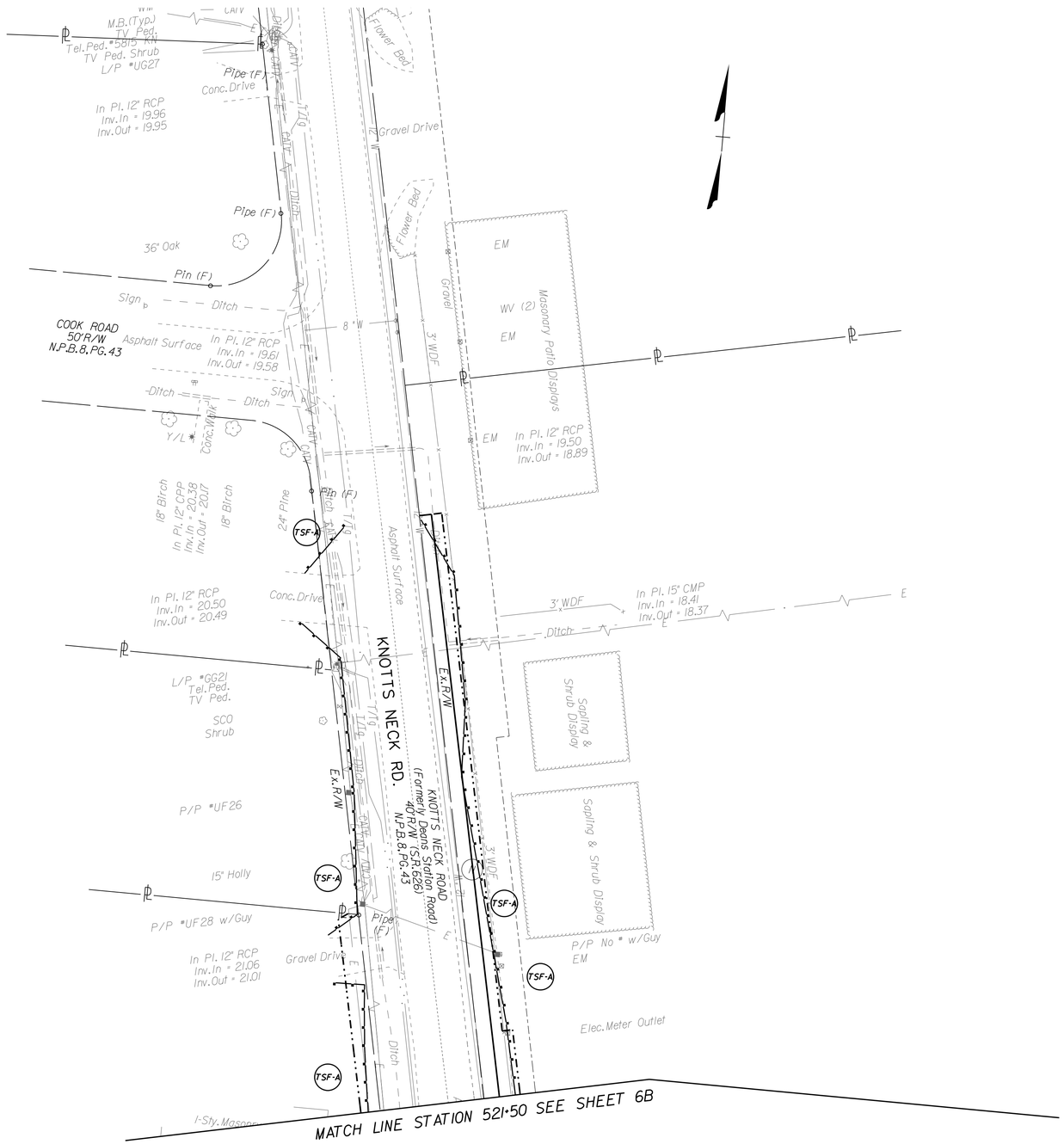
ANY TYPE OF CONSTRUCTION.



SCALE
0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
EROSION AND SEDIMENT CONTROL PLAN
PHASE 1 STA 521+50 - 524+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP
SHEET NO.	15B		

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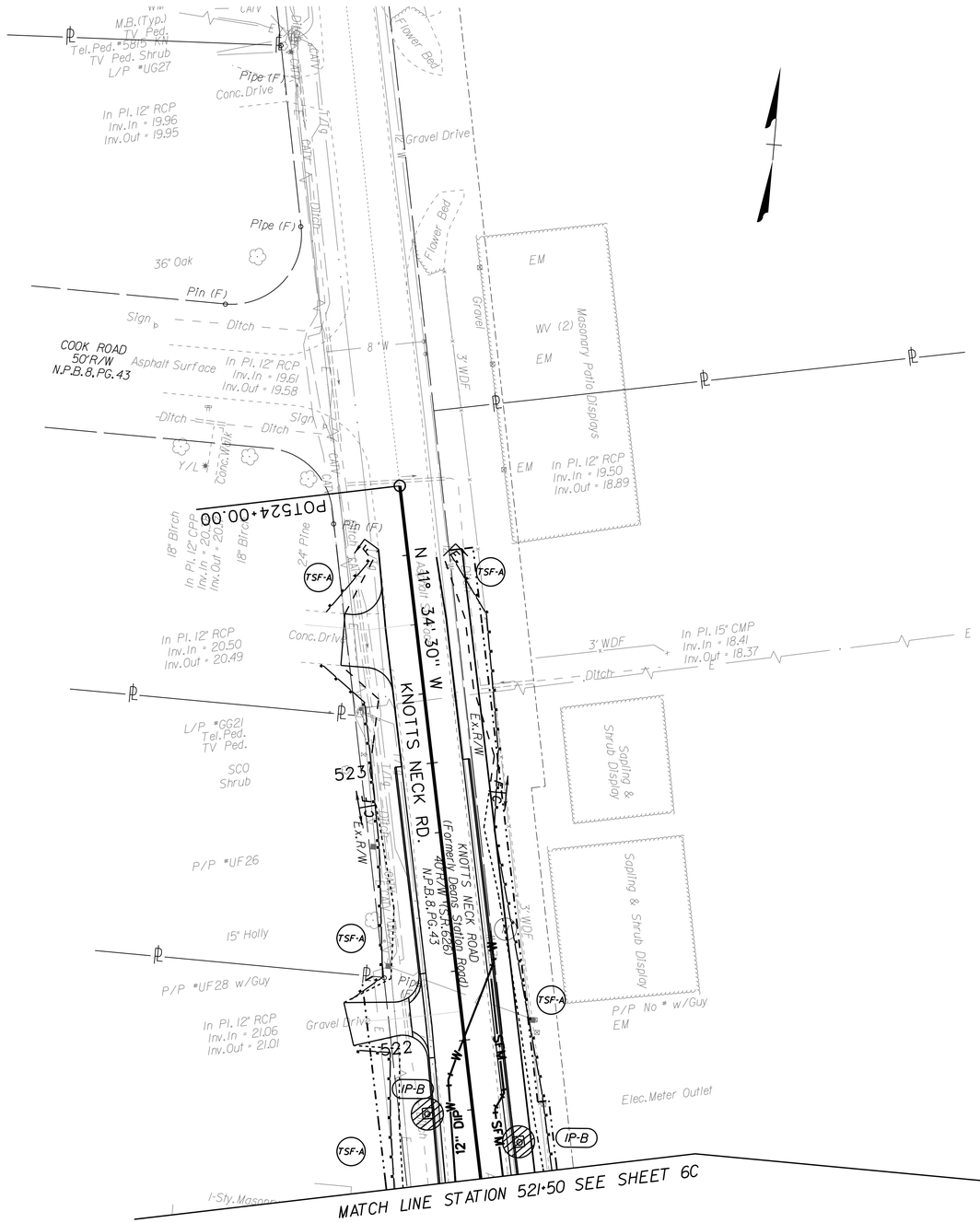
THESE PLANS ARE UNFINISHED
AND ARE NOT TO BE USED FOR
ANY TYPE OF CONSTRUCTION.



SCALE
0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 — 19 74 — CITY of SUFFOLK VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 EROSION AND SEDIMENT CONTROL PLAN PHASE 2 STA 521+50 - 524+00	
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: MSM DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 15C

4:00:18 PM
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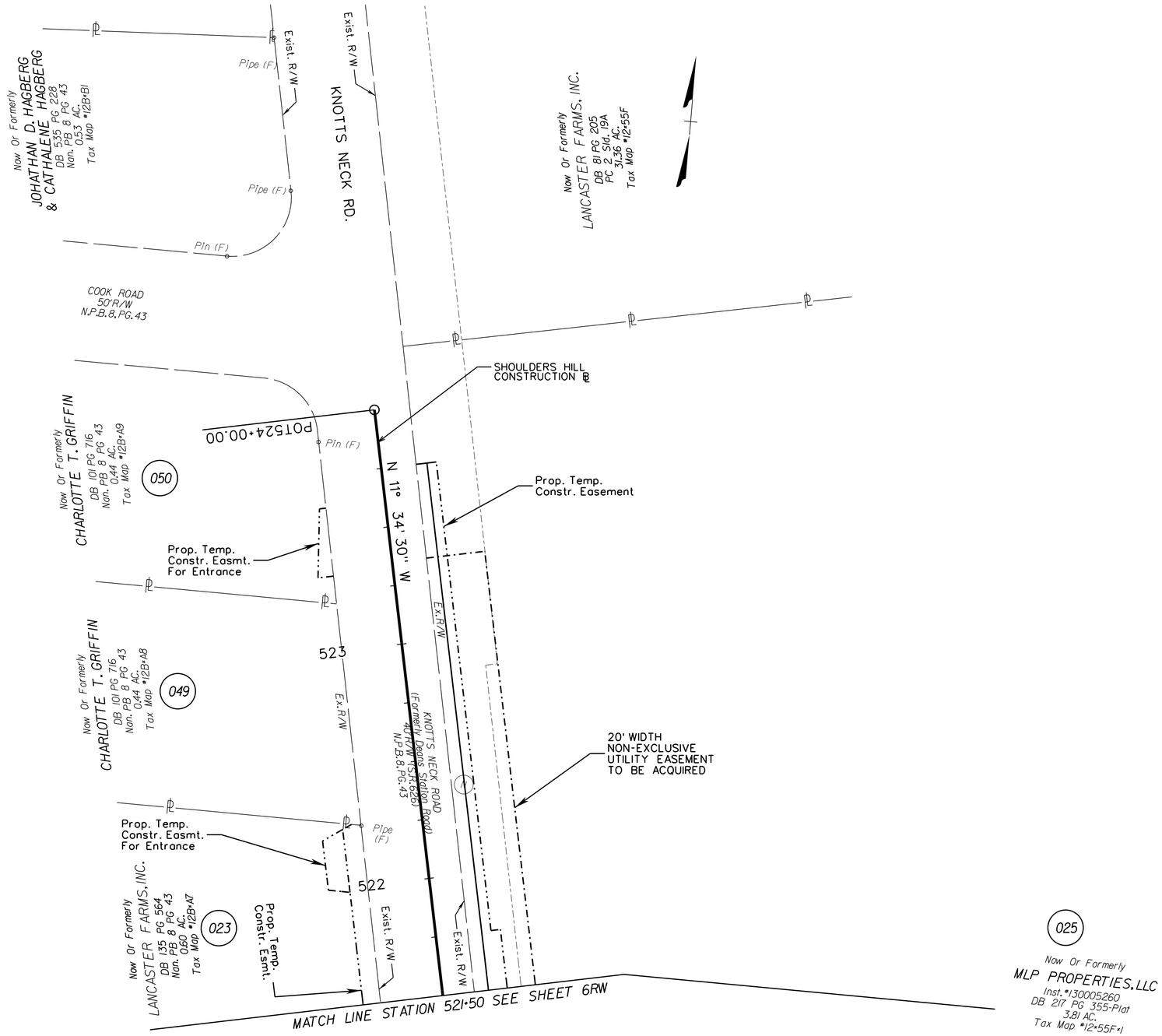
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 2E(2).

SCALE
0 25' 50'

NANSEMOND 1646 SUFFOLK 1742
19 74
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
RIGHT OF WAY PLAN
STA 521+50 - 524+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 15RW

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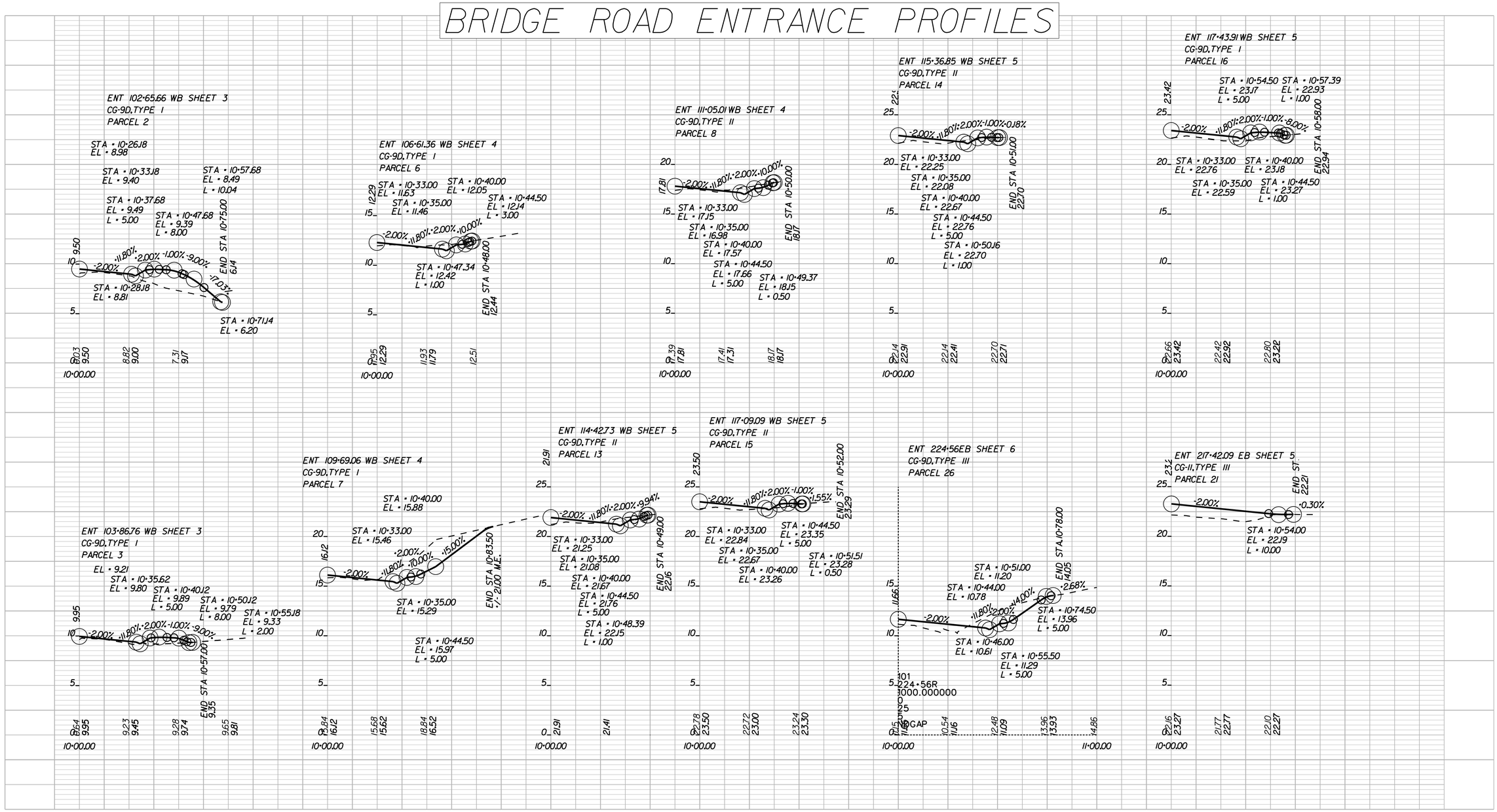
BRIDGE ROAD ENTRANCE PROFILES



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
ENTRANCE PROFILES

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY MSM	
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	SHEET NO. 16(1)

4:00:20 PM
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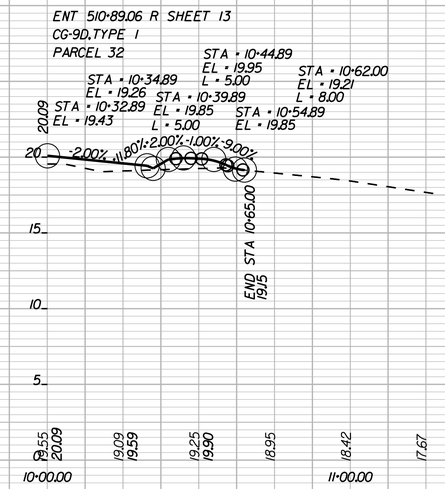
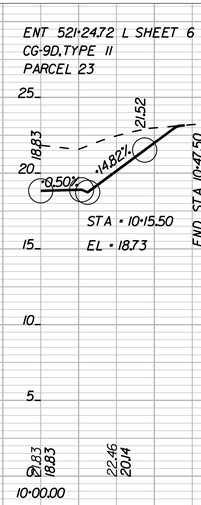
SHOULDERS HILL ENTRANCE PROFILES

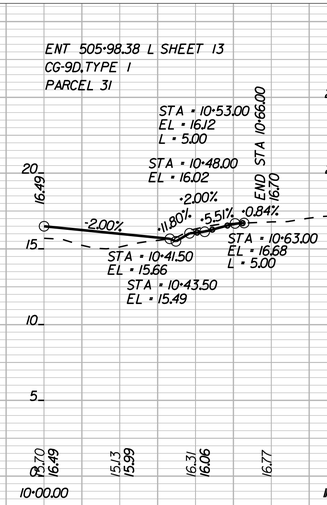
ENT 510+89.06 R SHEET 13
CG-9D, TYPE I
PARCEL 32



ENT 521+24.72 L SHEET 6
CG-9D, TYPE II
PARCEL 23



ENT 505+98.38 L SHEET 13
CG-9D, TYPE I
PARCEL 31



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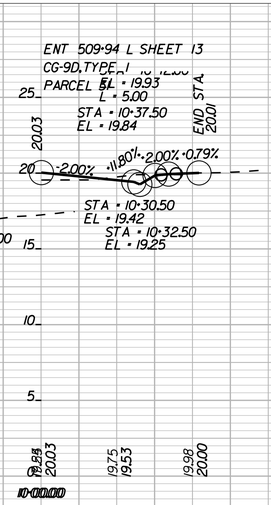

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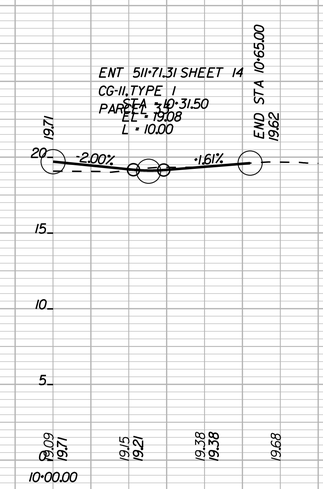

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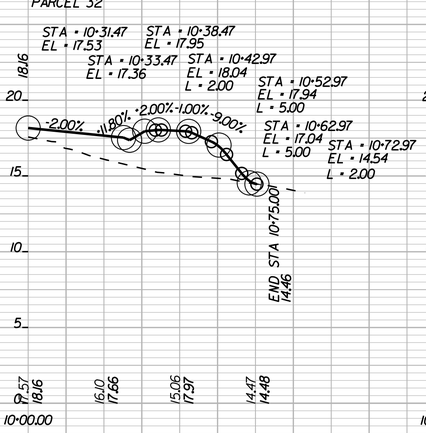
CG-9D, TYPE I
PARCEL 32



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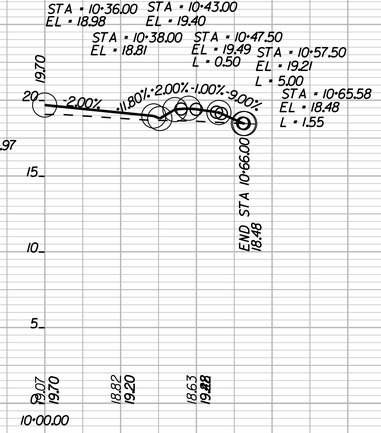
CG-9D, TYPE II
PARCEL 32



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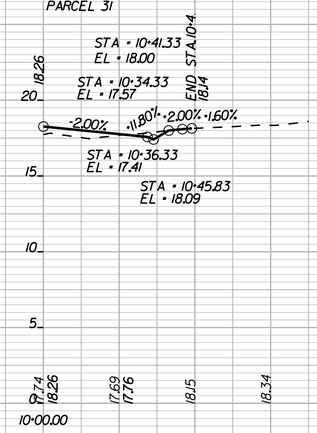
CG-9D, TYPE I
PARCEL 31



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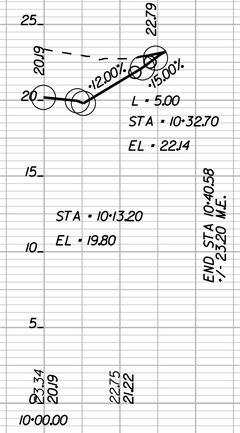
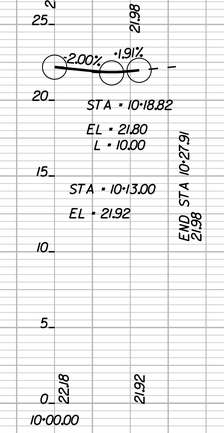
CG-9D, TYPE I
PARCEL 37



ENT 523+50.08 L SHEET 15
PE-1, TYPE I
PARCEL 38



SCALE: HORIZ - 1" = 25'

SCALE 0 25' 50'

VERT - 1" = 5'

SCALE 0 5' 10'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
ENTRANCE PROFILES

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	MSM
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 16(2)

400.20 PM
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INDEX OF SHEETS

Sheet No.:	Sheet Description:
17(1)	PAVEMENT MARKING AND SIGNING INDEX OF SHEETS, NOTES, AND LEGEND
17(1A)	PAVEMENT MARKING AND SIGNING INSERTABLE DETAILS (NOT INCLUDED IN THIS SUBMITTAL)
17(2)	SUMMARY OF QUANTITIES (NOT INCLUDED)
17(2A)	SIGN FIGURE DETAILS (NOT INCLUDED)
17(2B)	SIGN SCHEDULE (NOT INCLUDED)
17(2C)	PAVEMENT MARKING DETAILS (NOT INCLUDED)
17(3)	PAVEMENT MARKING AND SIGNING PLAN STA 100+00 - STA 105+00
17(4)	PAVEMENT MARKING AND SIGNING PLAN STA 105+00 - STA 112+00
17(5)	PAVEMENT MARKING AND SIGNING PLAN STA 112+00 - STA 119+00
17(6)	PAVEMENT MARKING AND SIGNING PLAN STA 119+00 - STA 126+00
17(7)	PAVEMENT MARKING AND SIGNING PLAN STA 126+00 - STA 133+00
17(8)	PAVEMENT MARKING AND SIGNING PLAN STA 133+00 - STA 140+00
17(9)	PAVEMENT MARKING AND SIGNING PLAN STA 140+00 - STA 147+00 (NOT INCLUDED IN THIS SUBMITTAL)
17(10)	PAVEMENT MARKING AND SIGNING PLAN STA 147+00 - STA 154+00 (NOT INCLUDED IN THIS SUBMITTAL)
17(11)	PAVEMENT MARKING AND SIGNING PLAN STA 154+00 - STA 158+00 (NOT INCLUDED IN THIS SUBMITTAL)
17(12)	PAVEMENT MARKING AND SIGNING PLAN STA 500+00 - STA 504+75
17(13)	PAVEMENT MARKING AND SIGNING PLAN STA 504+75 - STA 511+25
17(14)	PAVEMENT MARKING AND SIGNING PLAN STA 511+25 - STA 517+50
17(15)	PAVEMENT MARKING AND SIGNING PLAN STA 521+50 - STA 524+00

GENERAL NOTES - SIGNING

1. SIGN LOCATIONS ARE TO BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CITY INSPECTOR PRIOR TO INSTALLATION.
2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, EXISTING TRAFFIC SIGNS WHICH ARE TO BE REMOVED SHALL REMAIN IN PLACE UNTIL THE NEW SIGN STRUCTURE AND CRITICAL SIGN MESSAGE ARE IN PLACE.
3. EXISTING SIGNS WITHIN THE LIMITS OF THE CONTRACT WHICH HAVE NOT BEEN ACCOUNTED FOR IN THE SIGNING AND MOT PLANS SHALL BE RELOCATED OR REMOVED AS DIRECTED BY THE CITY TRAFFIC ENGINEER.

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

GENERAL NOTES - PAVEMENT MARKING

1. SIGNING AND PAVEMENT MARKINGS ARE TO BE PER THE CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS/TRAFFIC ENGINEERING DIVISION SPECIFICATIONS AND STANDARDS. THIS DOCUMENT CITES ADDITIONAL REFERENCES, INCLUDING (BUT NOT LIMITED TO) THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PLEASE SEE THE CITY OF VIRGINIA BEACH PUBLIC WORKS SPECIFICATIONS AND STANDARDS FOR INFORMATION ON ALL REFERENCES TO BE USED ON THIS PROJECT. PROJECT SPECIFICATIONS SHALL ALSO BE PER THE CITY OF SUFFOLK AMENDMENTS TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, 2007.
2. VDOT TYPE A PAVEMENT MARKINGS (PAINT) WILL NOT BE USED ON PUBLIC STREETS.
3. MATERIALS AND WORKMANSHIP WILL CONFORM TO CITY SPECIFICATIONS.
4. PAVEMENT MARKINGS WILL BE INSTALLED ACCORDING TO THE REGULATIONS GOVERNING THE DESIGN, LOCATION, AND OPERATION OF ALL OFFICIAL TRAFFIC SIGNS, SIGNALS, AND MARKINGS ON AND ALONG HIGHWAYS WITHIN THE COMMONWEALTH OF VIRGINIA.
5. ALL PAVEMENT MARKINGS WILL BE REFLECTORIZED ACCORDING TO VDOT ROAD AND BRIDGE SPECIFICATIONS, (2016) SECTION 246.
6. THE CONTRACTOR WILL PREPARE THE PAVEMENT SURFACE FOR PROPER ADHESION. ANY SWEEPING OR REMOVAL OF DEBRIS, GRAVEL, DIRT, OR OTHER FOREIGN MATERIALS WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION. NO SEPARATE PAYMENT WILL BE MADE FOR THIS.
7. THE CONTRACTOR WILL COMPLETELY REMOVE ALL PREVIOUS EXISTING MARKINGS THAT COULD CONFLICT WITH THE NEW PAVEMENT MARKINGS.
8. THE CONTRACTOR WILL NOTE ALL SPECIAL PROVISIONS OF THE CONTRACT ON THE PLANS, SUCH AS THE RATE OF APPLICATION, MAINTENANCE OF TRAFFIC, RESTRICTED WORKING HOURS, AND/OR RESTRICTED WEATHER CONDITIONS. NO DEVIATION FROM THIS WILL BE PERMITTED.
9. UNLESS OTHERWISE SPECIFIED, THE BASIS OF MEASUREMENT WILL BE ALONG THE LONGITUDINAL CENTERLINE OF THE PAVEMENT MARKINGS. MEASUREMENT FOR LEGENDS WILL BE ACCORDING TO THE MESSAGE; COMPLETE, AND IN PLACE.
10. BEFORE THE APPLICATION, THE CONTRACTOR WILL "FIELD CHECK" AND PLACE ALL PAVEMENT MARKINGS, TO THE SATISFACTION OF THE ENGINEER.
11. ALL MARKINGS IMPROPERLY APPLIED OR LOCATED WILL BE COMPLETELY REMOVED AND CORRECTLY REAPPLIED AT THE EXPENSE OF THE CONTRACTOR.
12. WHERE BITUMINOUS SEALANTS PREVENT OR MAKE IT IMPRACTICAL TO EXTEND THE LINES TO EDGE OF PAVEMENT, THE CONTRACTOR WILL EXTEND THE LINES TO END OF THE SEALED AREA OR WITHIN ONE (1) FOOT OF THE EDGE OF PAVEMENT.
13. THERMOPLASTIC PAVEMENT MARKINGS OR PREFORMED POLYMER MARKINGS WILL NOT BE INSTALLED WITHIN A 48-HOUR PERIOD FOLLOWING A RAINFALL.
14. THE COLORS WILL NOT CHANGE THROUGHOUT THE EXPECTED LIFE OF THE FILM.
15. MARKING MATERIAL WILL BE APPLIED AT SPECIFIED DIMENSIONS AT A RATE RESULTING IN A MARKING THICKNESS OF 90 MILS +/- 5 MILS, NOT INCLUDING GLASS BEAD TOP DRESSING.
16. THE MARKINGS WILL BE PROVIDED IN SPECIFIED WIDTH AND SHAPES. PREFORMED WORDS AND SYMBOLS WILL CONFORM TO THE APPLICABLE SHAPES AND SIZES AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, OR AS MODIFIED.
17. PROPOSED MARKINGS SHALL TIE-INTO EXISTING PAVEMENT MARKINGS AND MATCH ANY EXISTING PATTERNS.
18. PERMANENT PAVEMENT MARKINGS SHALL BE VDOT TYPE B, CLASS I.

STANDARD SIGN LEGEND

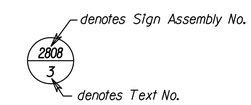
PLAN ITEM	PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Single Post Sign Support		
Double Post Sign Support		
Triple Post Sign Support		
Flashing Beacon		
O/H Cantilever Sign Support		
O/H Span Sign Support		

SIGN CALL-OUTS

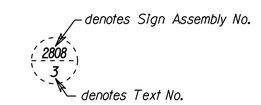
Existing Sign to Remain or to be Relocated	SPEED LIMIT 25
Existing Sign to be Removed	SPEED LIMIT 25
Proposed Sign Panel	SPEED LIMIT 25

SIGN LABELS

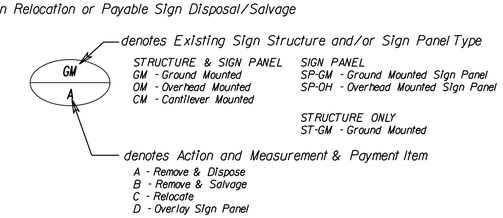
Proposed Sign Assemblies



Relocated Sign Assemblies



Sign Relocation or Payable Sign Disposal/Salvage



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

NOTE: CONTACT MISS UTILITY OF VIRGINIA AT LEAST 72 HOURS BEFORE GROUND PENETRATION OR EXCAVATION AT 811.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
INDEX OF SHEETS, NOTES AND LEGEND

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	MSM
		DESIGNED BY	MSM
DATE	5/10/19	APPROVED BY	WMP

SHEET NO. 17(1)

4/20/21 PM
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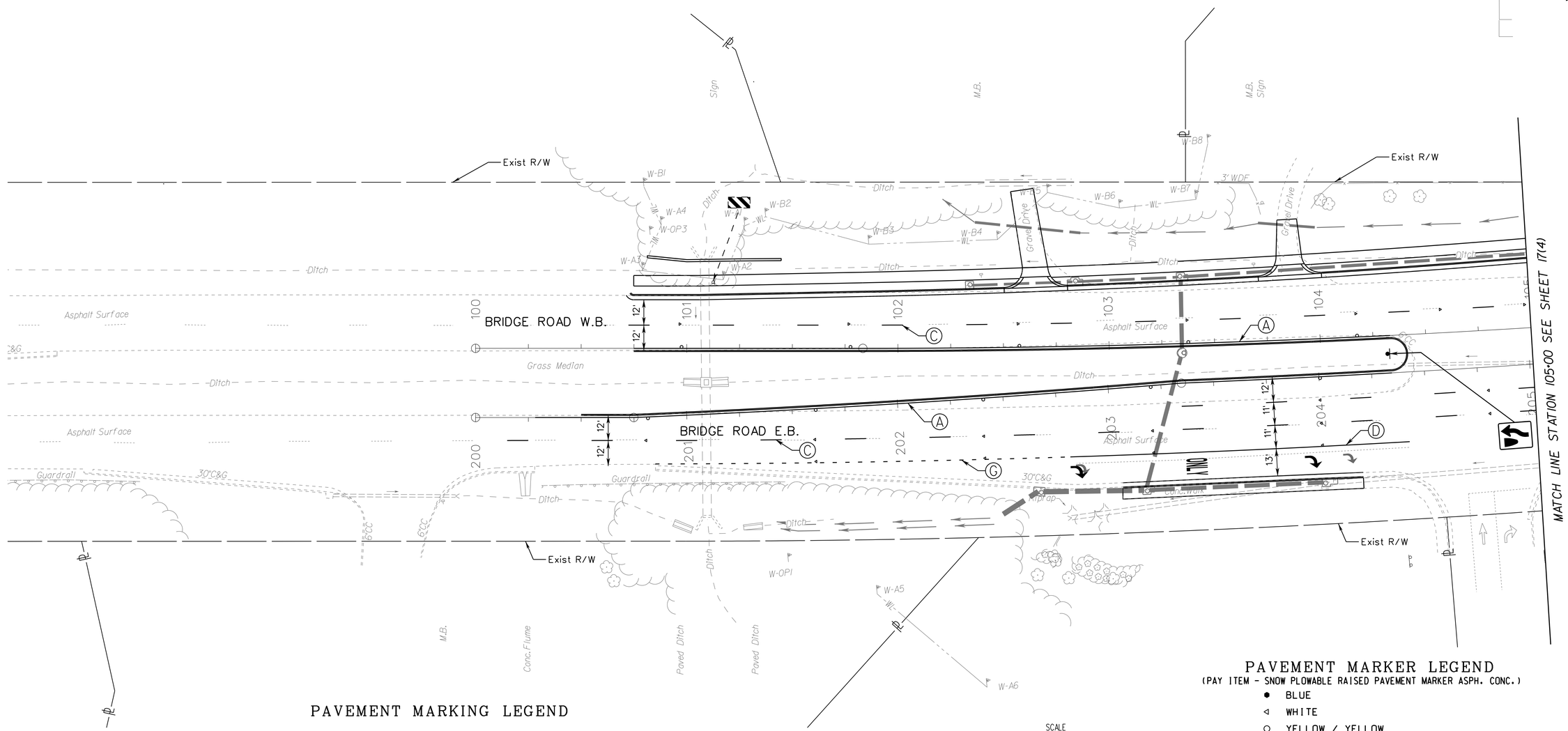
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



PAVEMENT MARKER LEGEND

(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

- ● BLUE
- ◁ WHITE
- ○ YELLOW / YELLOW

FOR SPACING OF MARKERS SEE SHEET 17(2C)

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (10' LINE, 30' SPACE)
- (D) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (F) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 4' SPACE)
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (3' LINE, 9' SPACE)
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- (I) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 12" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 8" WIDTH
- PAVEMENT SYMBOL MARKING MERGE ARROW
- OR PAVEMENT SYMBOL MARKING ELONGATED ARROW SINGLE
- OR PAVEMENT SYMBOL MARKING ELONGATED ARROW DOUBLE
- PAVEMENT SYMBOL MARKING THRU ARROW
- ONLY PAVEMENT MESSAGE MARKING ONLY

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA 1974	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PAVEMENT MARKING AND SIGNING PLANS PLAN STA 100+00 - 105+00	
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19 DRAWN BY DEG DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 17(3)

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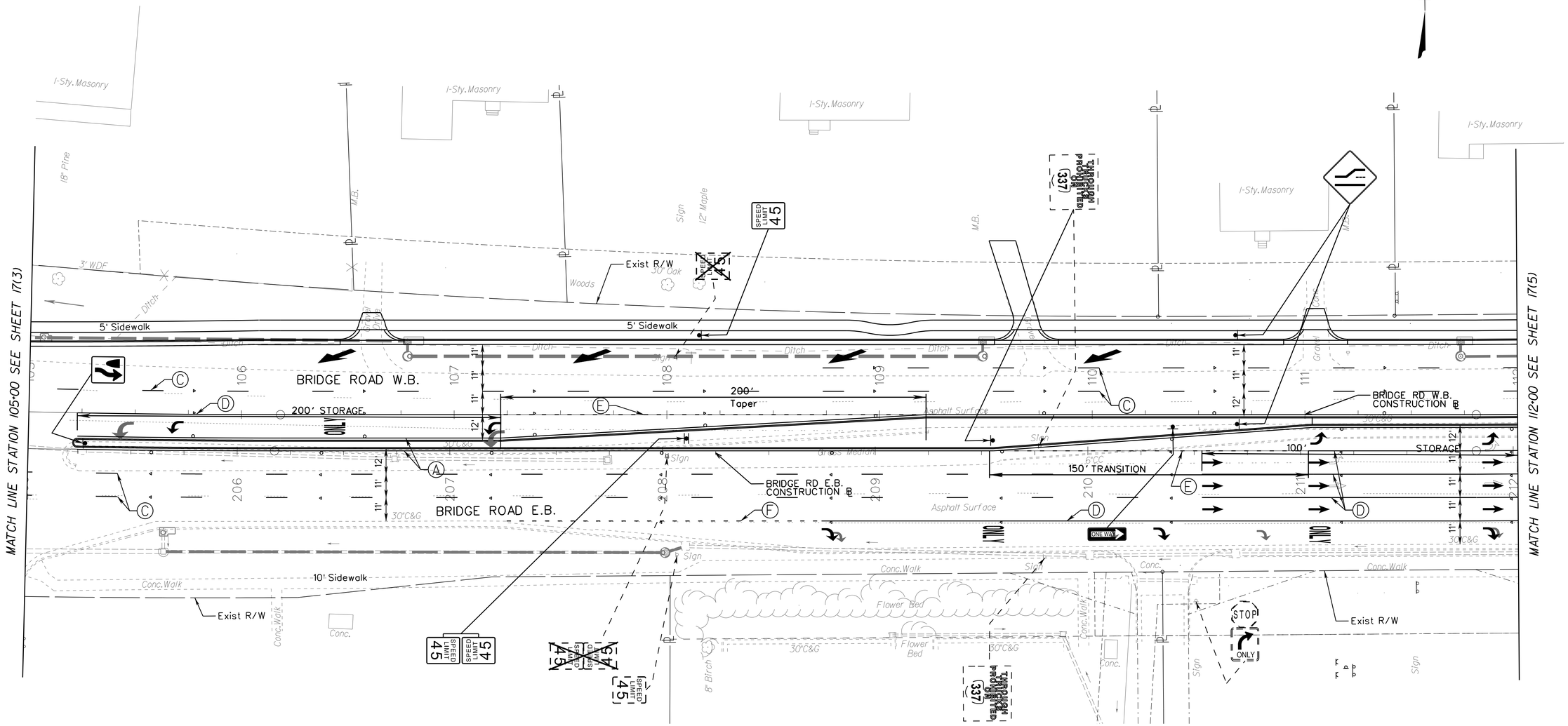

PAVEMENT MARKER LEGEND

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- ONLY PAVEMENT MESSAGE MARKING ONLY

SCALE 0 25' 50'

FOR SPACING OF MARKERS SEE SHEET 17(2C)

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 105+00 - 112+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	DEG
M. VELASQUEZ	DESIGNED BY	MSM
DATE 5/10/19	APPROVED BY	WMP

SHEET NO. 17(4)

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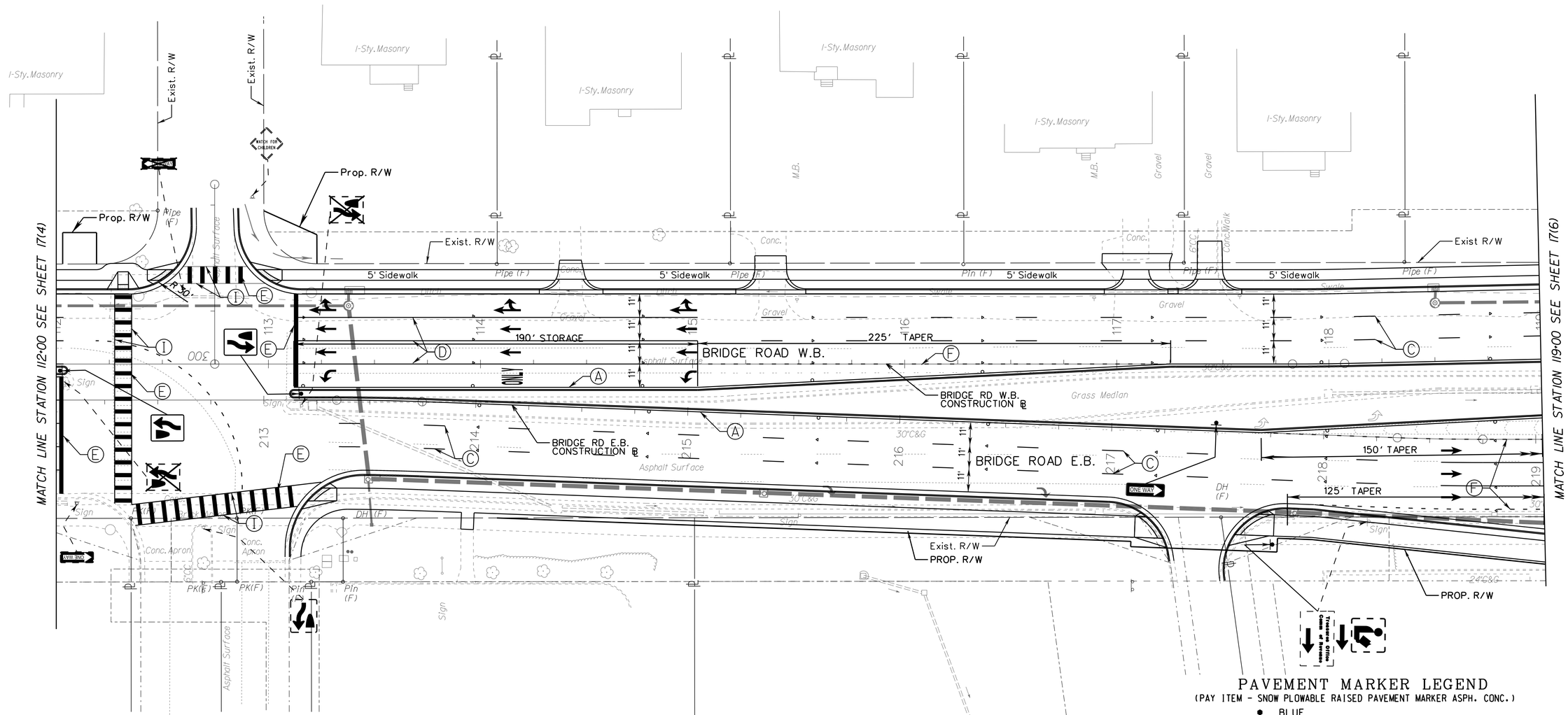
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
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- PAVEMENT SYMBOL MARKING THRU ARROW
- ONLY — PAVEMENT MESSAGE MARKING ONLY

PAVEMENT MARKER LEGEND

(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

- ● BLUE
- ◁ WHITE
- ○ YELLOW / YELLOW

FOR SPACING OF MARKERS SEE SHEET 17(2C)

NANSEMOND 1646 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PAVEMENT MARKING AND SIGNING PLANS PLAN STA 112+00 - 119+00	
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: DEG DESIGNED BY: MSM APPROVED BY: WMP	SHEET NO. 17(5)

4:00:25 PM
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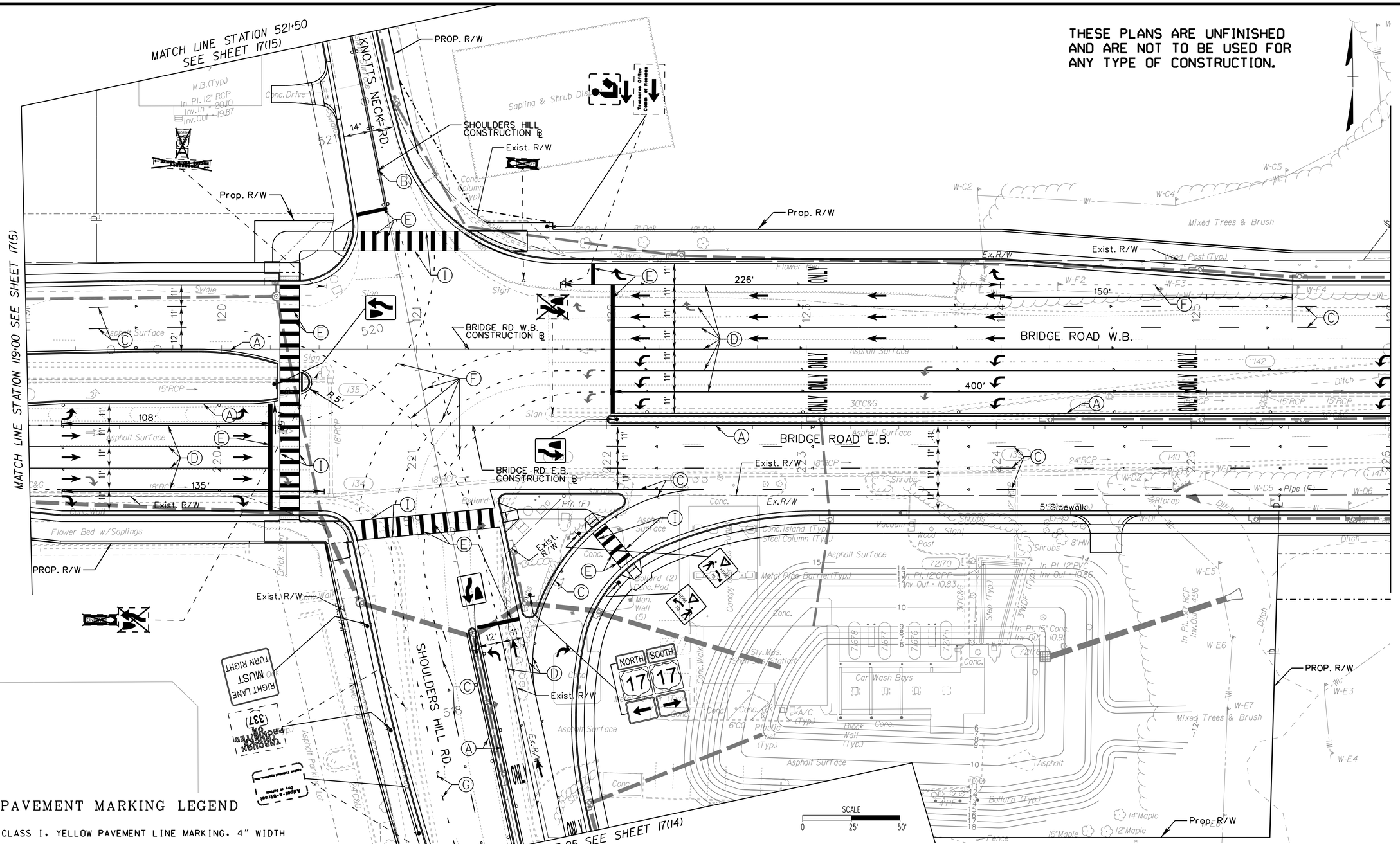
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



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- ONLY — PAVEMENT MESSAGE MARKING ONLY

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 119+00 - 126+00 ;
STA 517+25 - 521+50

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	DEG	17(6)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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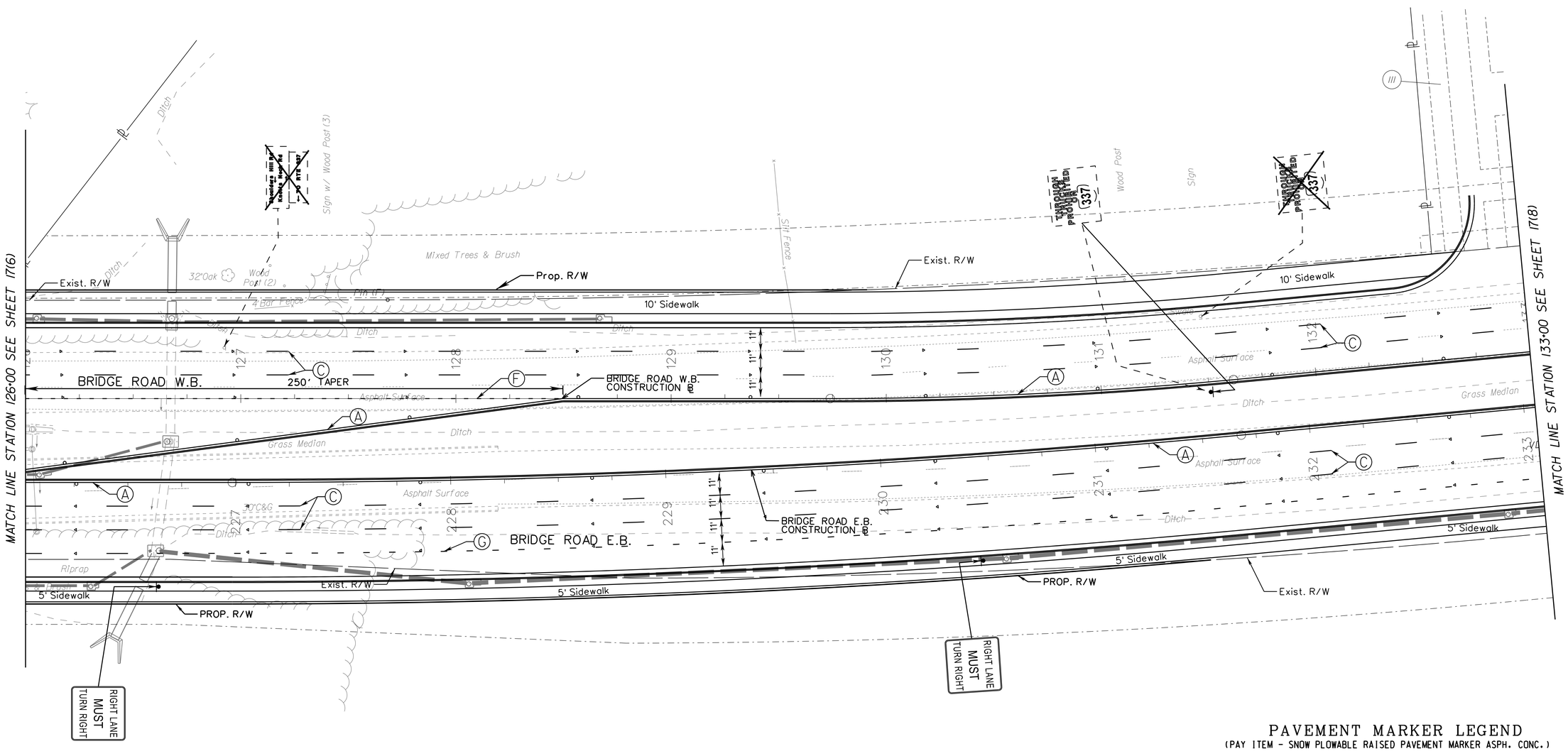
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



PAVEMENT MARKING LEGEND

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- ONLY — PAVEMENT MESSAGE MARKING ONLY

PAVEMENT MARKER LEGEND

(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

- ● BLUE
- ◁ WHITE
- ○ YELLOW / YELLOW

FOR SPACING OF MARKERS SEE SHEET 17(2C)

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 126+00 - 133+00

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	DEG	17(7)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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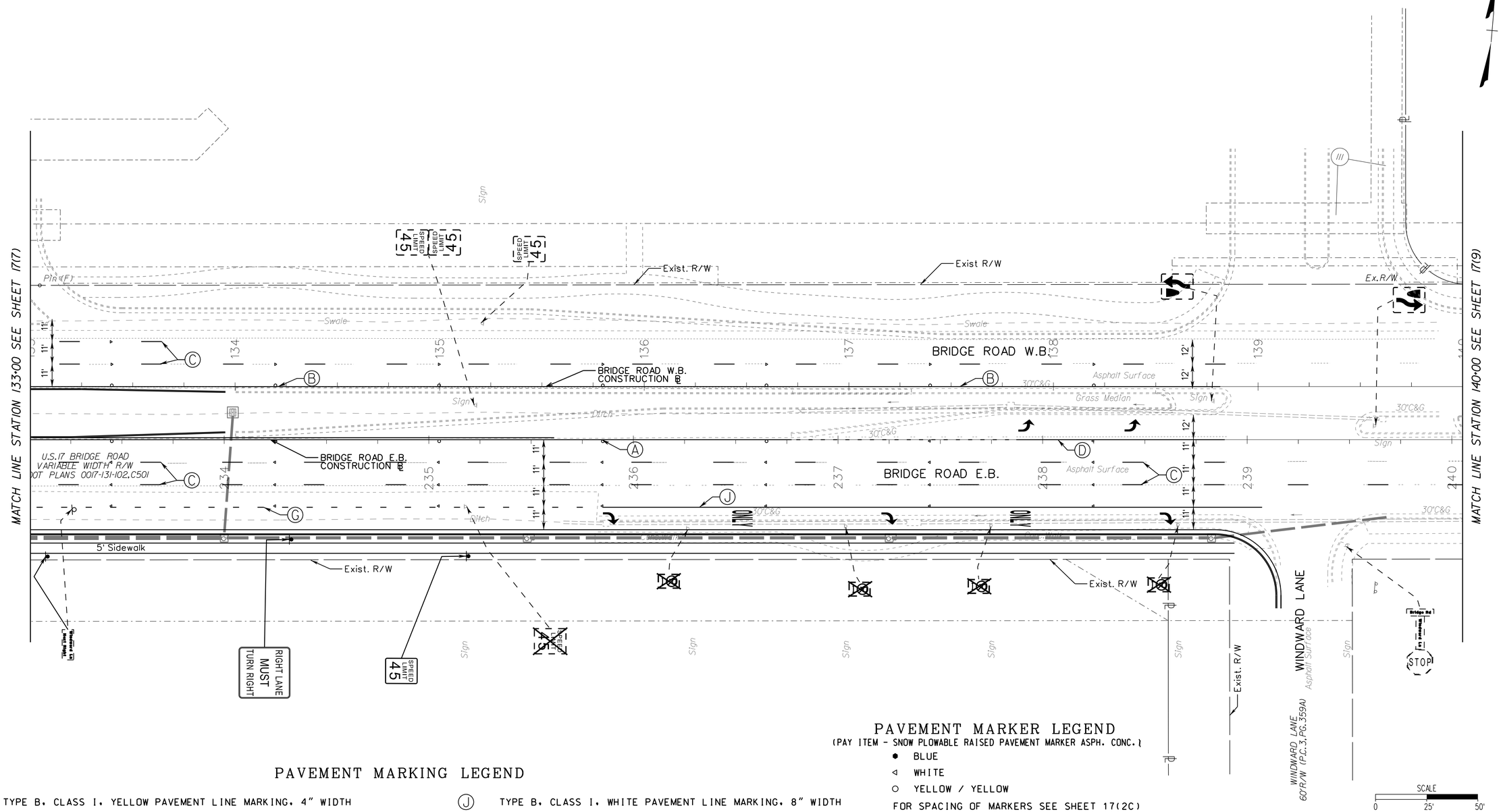

PAVEMENT MARKER LEGEND

(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

- ● BLUE
- ◁ WHITE
- ○ YELLOW / YELLOW

FOR SPACING OF MARKERS SEE SHEET 17(2C)

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (10' LINE, 30' SPACE)
- (D) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
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- OR PAVEMENT SYMBOL MARKING ELONGATED ARROW DOUBLE
- PAVEMENT SYMBOL MARKING THRU ARROW
- ONLY PAVEMENT MESSAGE MARKING ONLY

NANSEMOND 1666 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 133+00 - 140+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

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DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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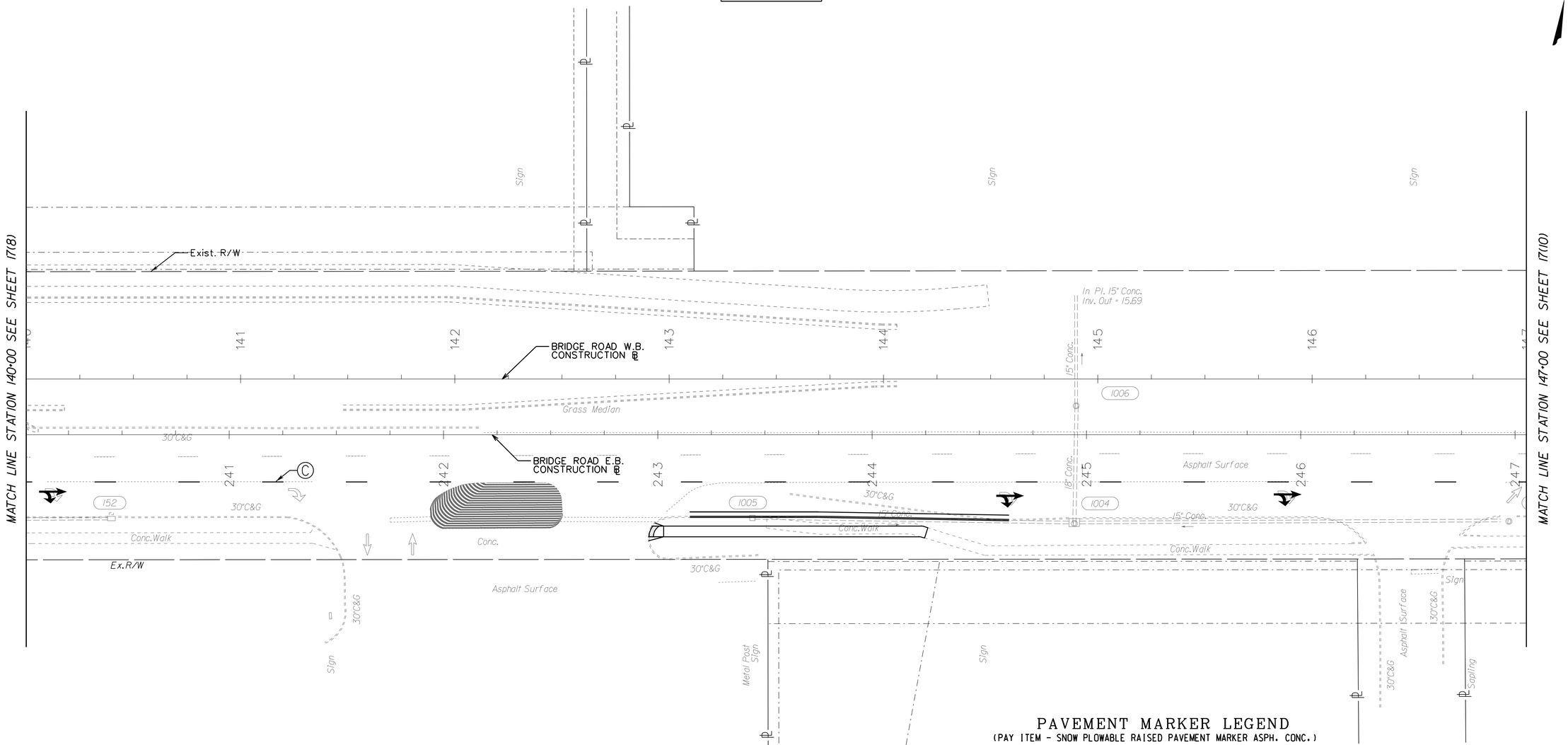
FOR ADDITIONAL PROPERTY OWNER INFORMATION SEE SHEET 1E.



PAVEMENT MARKER LEGEND

(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

- ● BLUE
- ◁ WHITE
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FOR SPACING OF MARKERS SEE SHEET 17(2C)

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- Ⓐ TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
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- ONLY PAVEMENT MESSAGE MARKING ONLY

SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 140+00 - 147+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY DEG	SHEET NO. 17(9)
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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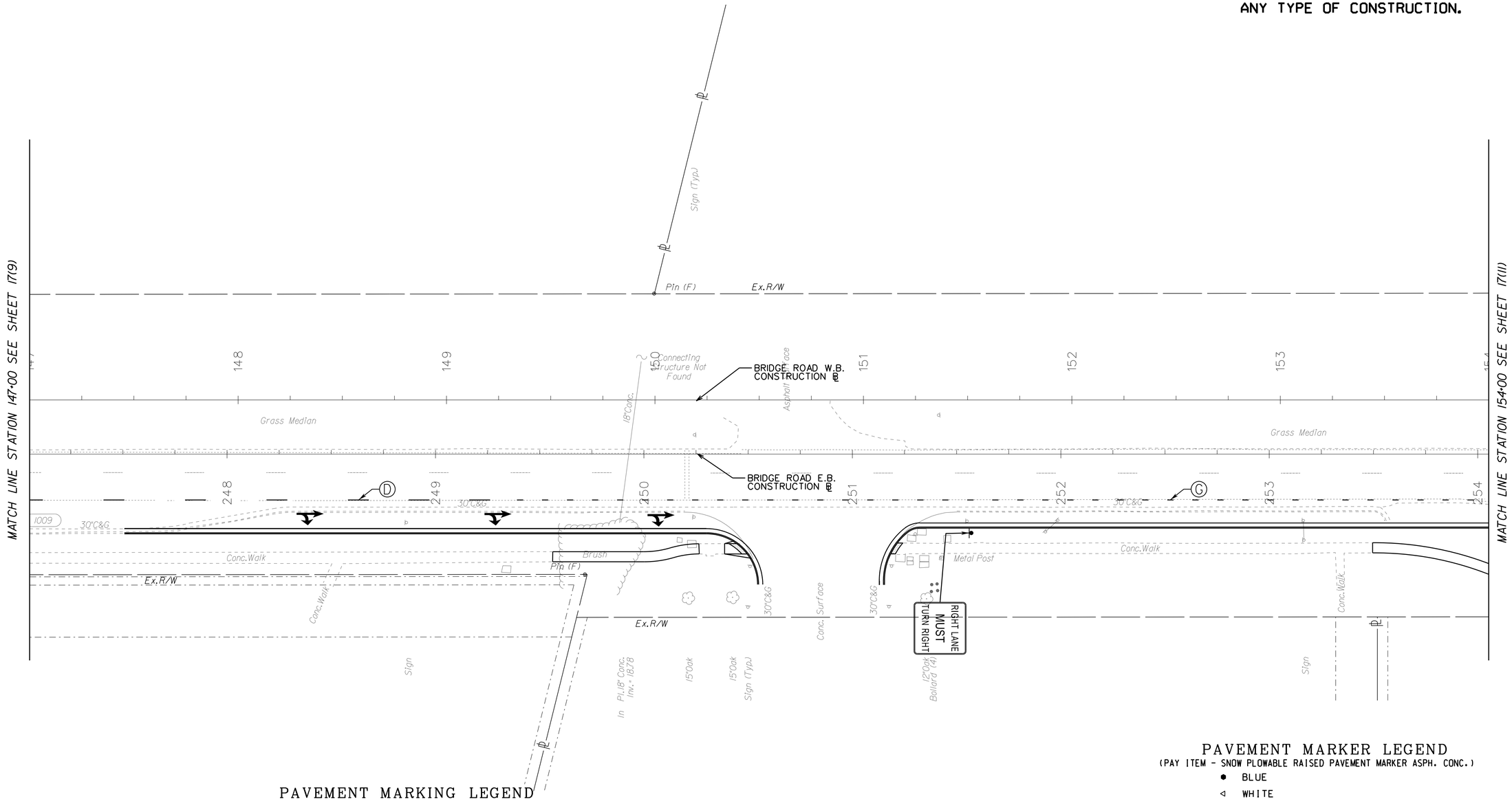

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- PAVEMENT SYMBOL MARKING THRU ARROW
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SCALE 0 25' 50'

PAVEMENT MARKER LEGEND

(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

- ● BLUE
- ◁ WHITE
- ○ YELLOW / YELLOW

FOR SPACING OF MARKERS SEE SHEET 17(2C)

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 147+00 - 154+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY DEG	SHEET NO. 17(10)
	DESIGNED BY MSM	
DATE 5/10/19	APPROVED BY WMP	

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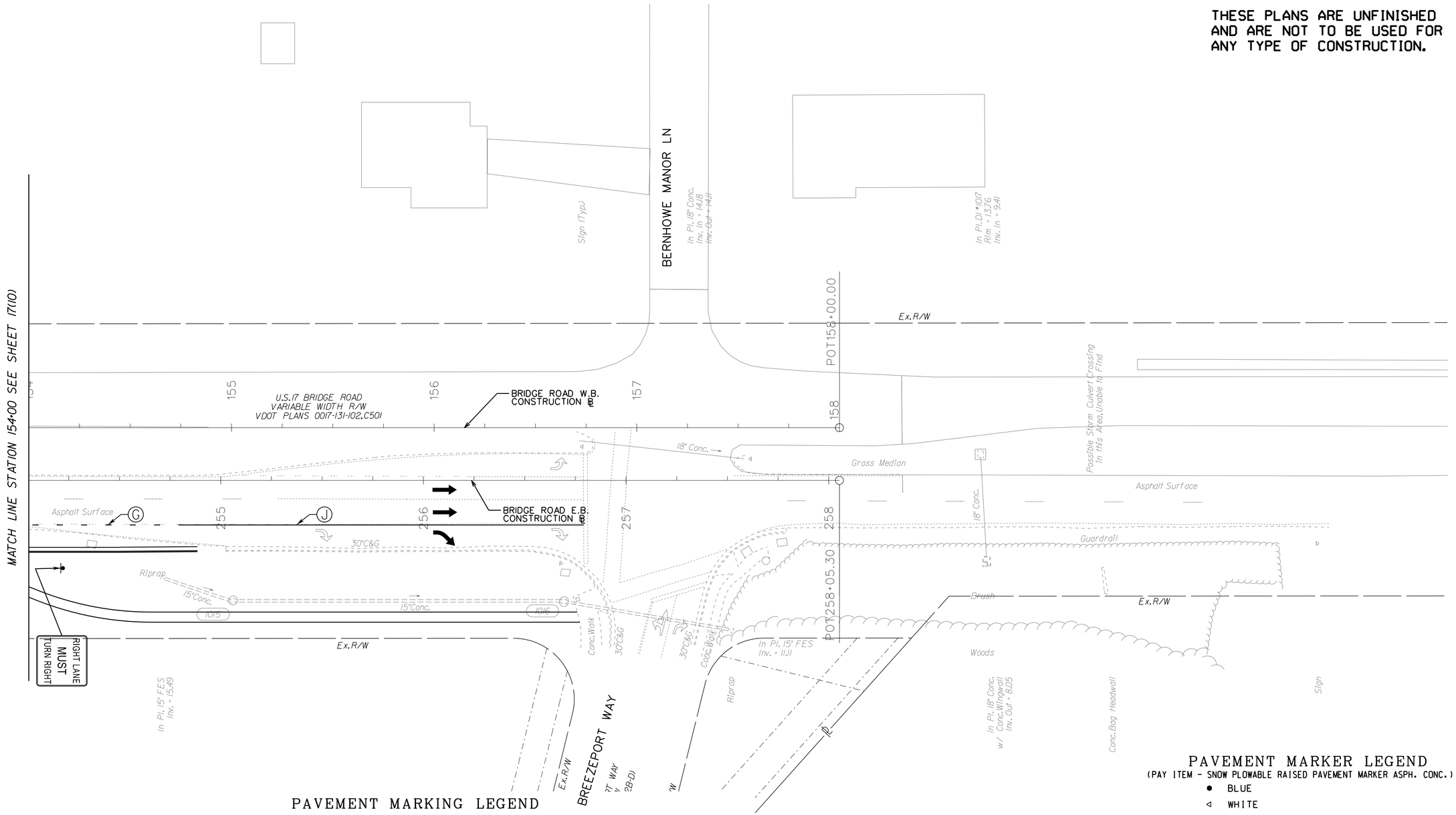

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SCALE 0 25' 50'

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(PAY ITEM - SNOW PLOWABLE RAISED PAVEMENT MARKER ASPH. CONC.)

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FOR SPACING OF MARKERS SEE SHEET 17(2C)

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PAVEMENT MARKING AND SIGNING PLANS PLAN STA 154+00 - 158+00		90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY DEG DESIGNED BY MSM APPROVED BY WMP	SHEET NO. 17(11)

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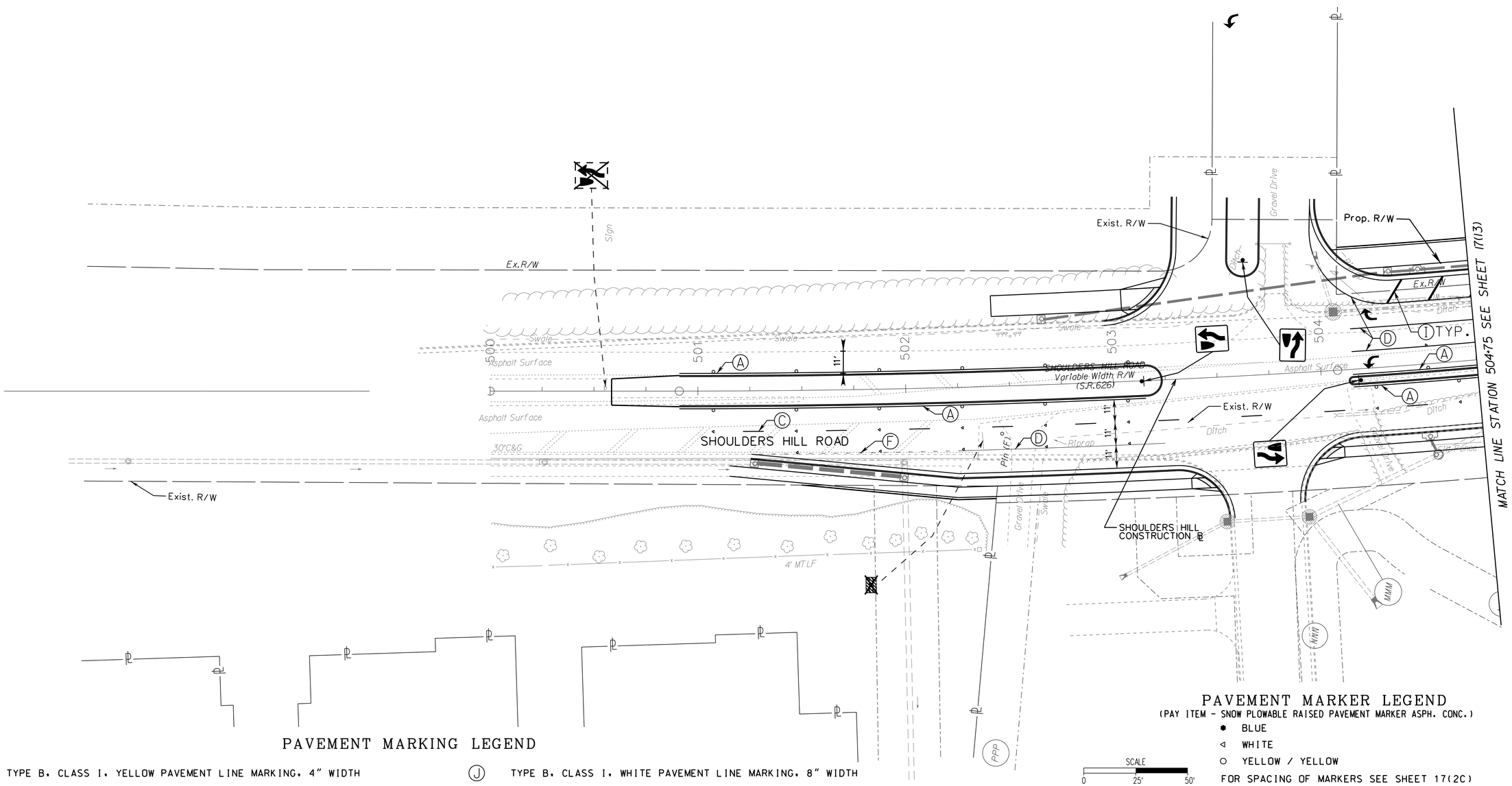

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FOR SPACING OF MARKERS SEE SHEET 17(2C)

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 500+00 - 504+75

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	DEG	
M. VELASQUEZ	DESIGNED BY	MSM	SHEET NO. 17(12)
DATE 5/10/19	APPROVED BY	WMP	

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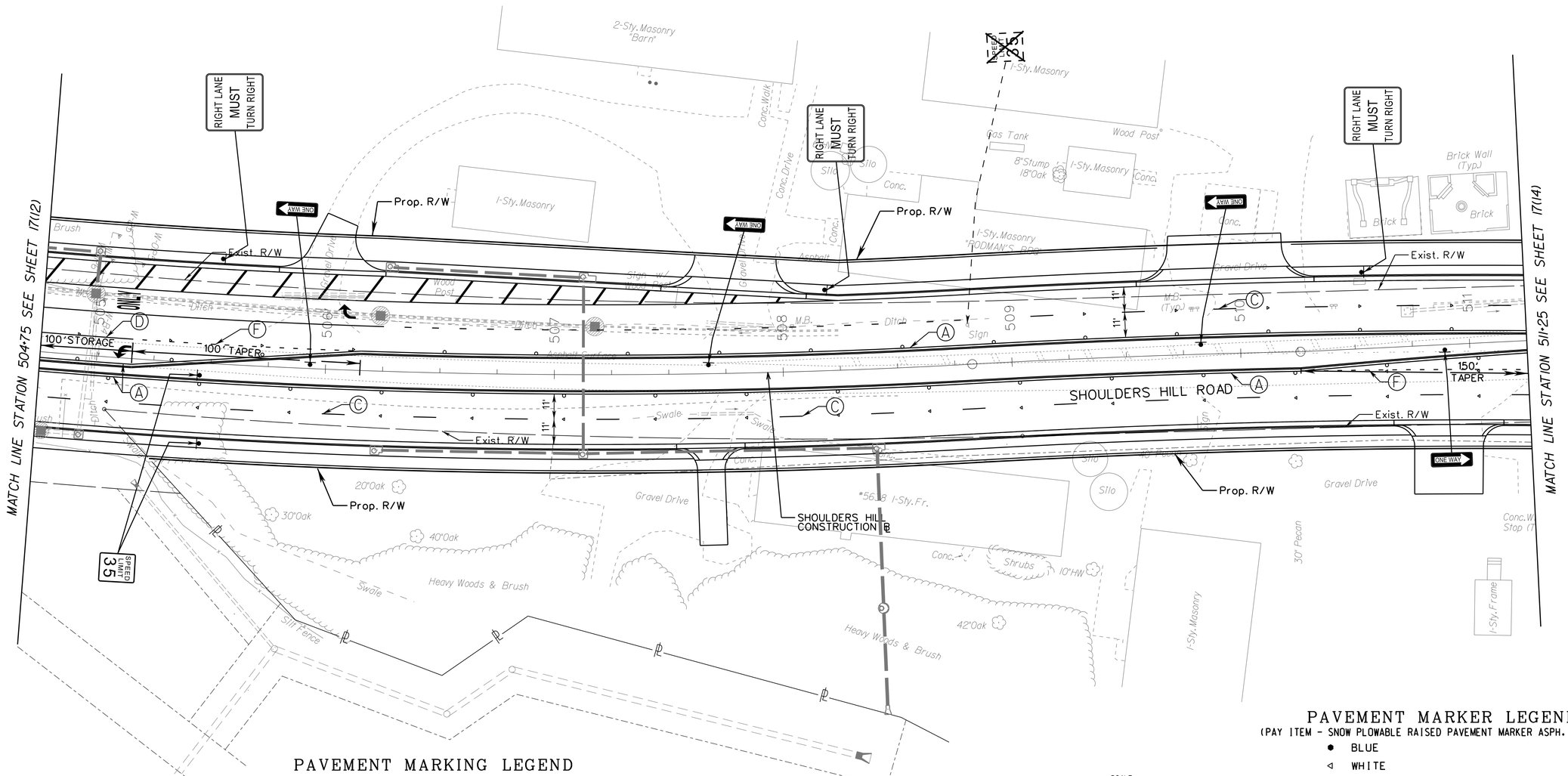
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



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SCALE 0 25' 50'

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- ● BLUE
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FOR SPACING OF MARKERS SEE SHEET 17(2C)

NANSEMOND 1646 SUFFOLK 1742 — CITY OF SUFFOLK, VIRGINIA 1974	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 PAVEMENT MARKING AND SIGNING PLANS PLAN STA 504+75 - 511+25	
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19	DRAWN BY: DEG DESIGNED BY: MSM APPROVED BY: WMP
		SHEET NO. 17(13)

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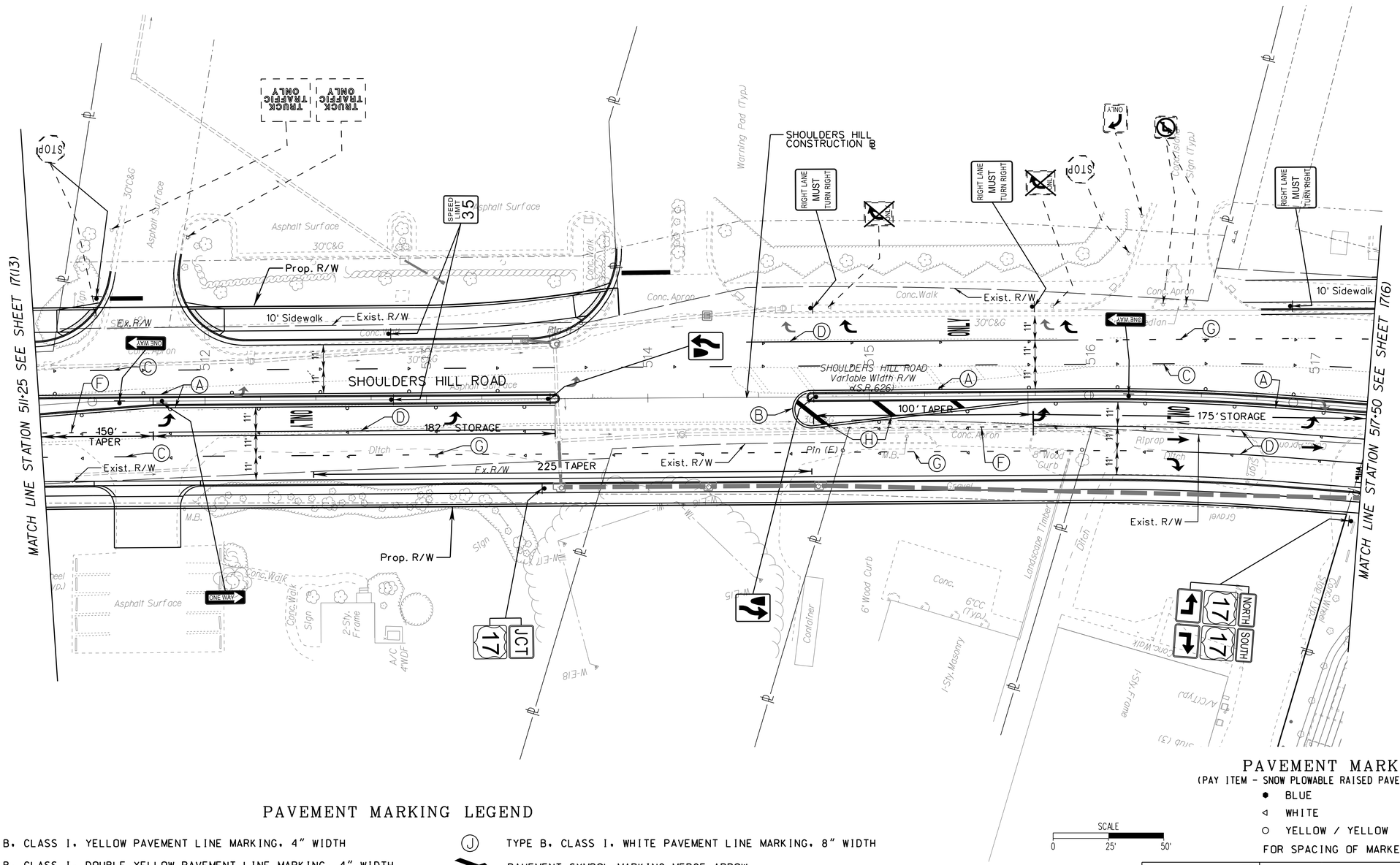

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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
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ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS
PLAN STA 511+25 - 517+25

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY DEG	SHEET NO. 17(14)
DATE 5/10/19	DESIGNED BY MSM	
	APPROVED BY WMP	

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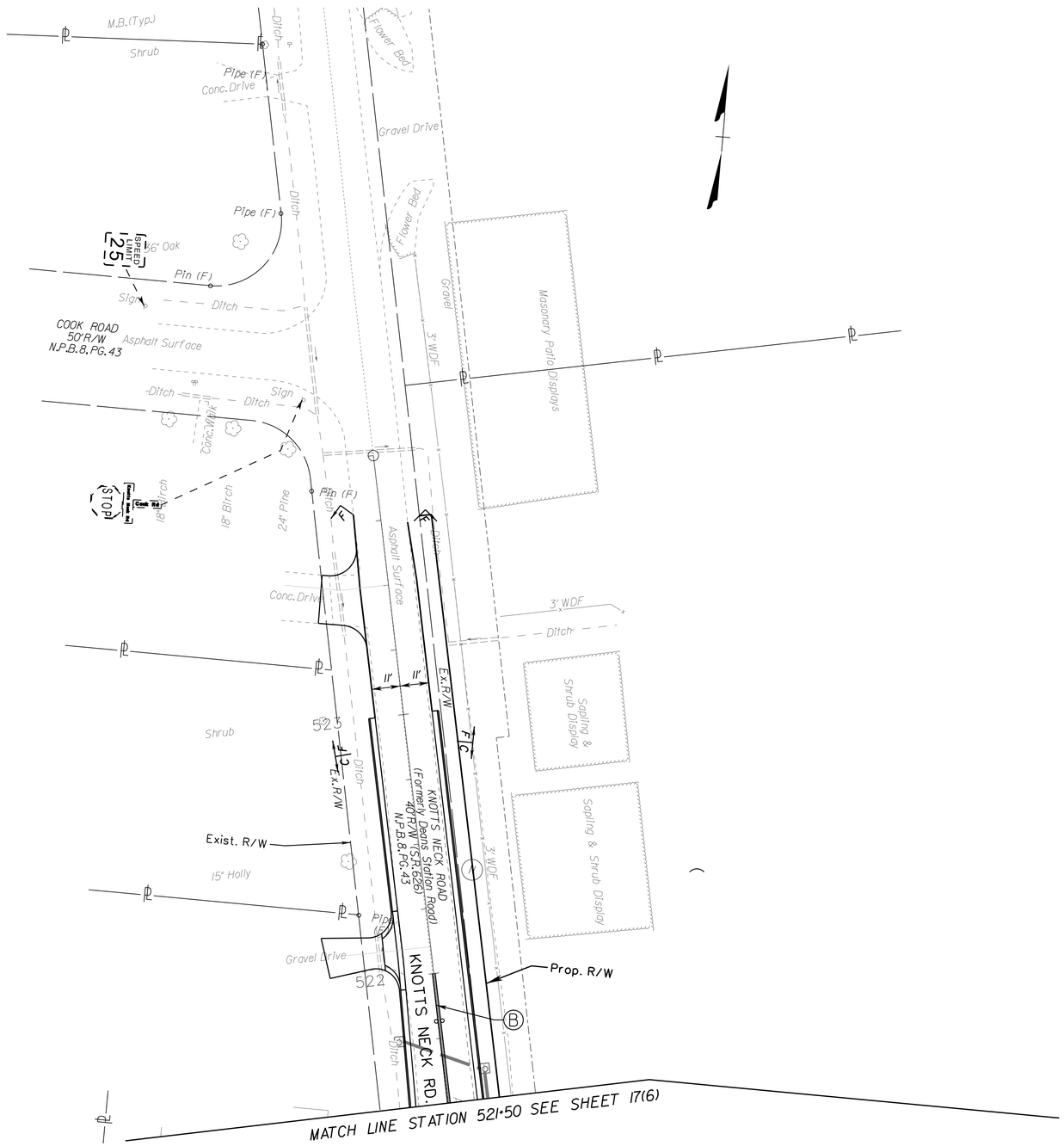
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



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FOR SPACING OF MARKERS SEE SHEET 17(2C)

SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
PAVEMENT MARKING AND SIGNING PLANS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	DEG
DATE	5/10/19	DESIGNED BY	MSM
		APPROVED BY	WMP
SHEET NO.	17(15)		

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INDEX OF SHEETS

Sheet No.:	Sheet Description:
19(1)	Index of Sheets, General Notes & Legend
19(1A)1 - 19(1A)Y	Insertable Sheets (Not Included in this Submittal)
19(2)	Summary of Quantities (Not Included in this Submittal)
19(2A)	Sign Figure Details (Not Included in this Submittal)
19(3)	Traffic Signal Plan - Bridge Road & Walden Road
19(4)	Traffic Signal Plan - Bridge Road & Shoulders Hill Road/Knotts Neck Road

GENERAL NOTES

A. GENERAL

A1. All traffic signal work shall be designed, constructed and installed in accordance with the City of Suffolk Public Facilities Manual; the City of Suffolk Traffic Signal Controller Cabinet Specifications, dated 2015; the Virginia Department of Transportation (VDOT) Road and Bridge Specifications, dated 2016; the VDOT Road and Bridge Standards, dated 2016; the current version of the Manual on Uniform Traffic Control Devices (MUTCD) Rev. 1; dated 2009; the Virginia Work Area Protection Manual, dated 2011, with any revisions; and the 2011 National Electric Code.

A2. The contractor shall contact Miss Utility for utility locations 48 hours before beginning construction (1-800-552-7001).

A3. The contractor shall submit shop drawings and/or catalog cuts for the mast arm pole, foundation design, controller, controller cabinet and signal heads with hardware to the developer's traffic engineer. Approved copies shall be supplied to the City Traffic Engineer's representative.

A4. No work shall commence with the exception of the soil survey for the foundations until all submittals required are received and reviewed by the City Traffic Engineer's representative.

A5. Signal timings shall be provided by City of Suffolk Traffic Engineering. Traffic Signal Timing shall be requested 3 weeks prior to planned signal actuation.

A7. The contractor shall be responsible for operation of the signal and its components from the time work commences until such time as the 30-day test period has been completed and the signal has been accepted by the City. The contractor shall respond to emergency repair notifications within two (2) hours.

A8. The 30-day test period shall begin only after items shown on the City punch list have been completed. See Appendix 3.3 of the City Specifications for punch list requirements.

A9. Upon completion of the traffic signal, the contractor shall submit to the City Traffic Engineer's representative accurate and to scale as-built traffic signal plans. The as-builts shall be supplied in both a printed format and electronic formats using AutoCAD 2007 or later.

B. SIGNAL POLES, FOUNDATIONS, CONTROLLER CABINET AND EQUIPMENT

B1. Mast arm pole foundations shall be VDOT Standard PF-8. The contractor shall be responsible for securing soil borings and reviewing the elevations for the top of the foundations. A foundation design shall be prepared and submitted for approval by a Professional Engineer licensed in Virginia. The elevation of the top of the foundation shall be within 4"-6" above the finished ground grade.

B2. The contractor shall stake signal pole locations and verify mast arm lengths with the City Traffic Engineer's representative prior to drilling foundations. Contact Robert Lewis at (757) 514-7603 for verification.

B3. The Controller shall be a Peek ATC 1000 - or - McCain ATC eX NEMA TS2 unit. See City website for specifications.

B4. The Controller Cabinet shall be no less than 54" high, 44" wide and 24" deep and shall be large enough to provide for ease of maintenance to the controller and auxiliary equipment. The cabinet shall be wired in accordance with City Specifications. The foundations shall be VDOT CF-4.

B5. Pole foundations, poles, and mast arms shall be designed to accommodate the load shown on these plans.

B6. All signal pole and controller cabinet foundation ground rods shall be placed in the nearest junction box. The electrical service ground rod shall be placed in a JB-2 junction box and shall be in conformance with City specifications (see City website).

B7. Pedestrian push buttons are to be located on the mast arm poles. If the push buttons are farther than 3' from the nearest sidewalk, then additional sidewalk shall be added to provide access for wheel chairs. The Polara "Bulldog" push button shall be used.

B8. Traffic mast arm poles shall conform to the VDOT MP-3. All hardware shall be galvanized. Mast arm poles numbers ____ and ____ shall be ____' high combination poles with single ____' luminaire arms on each pole. A minimum 15' clearance shall be maintained between the highest point in the pavement surface to the lowest point of the signal head assembly, including the backplate.

B9. Pedestal poles shall conform to VDOT PF-2 specifications.

B10. The contractor shall configure the traffic cabinet and test operation in a controlled environment for no less than one week prior to field installation.

C. DETECTION EQUIPMENT

C1. Emergency Pre-emption shall be installed using the GTT Opticom System Intersection Equipment, to include Model 764 Multimode Phase Selector.

C2. The Video Detection System shall be the Aldis Gridsmart Fisheye Camera with mounting assembly, cable and connections. See City website for current specifications.

D. TRAFFIC SIGNAL HEADS

D1. Signal mounting shall conform to Standard SM-3. See City website for specifications.

D2. Signal heads shall be LED. All signal heads shall have full tunnel-visors for each individual 12" sections. All traffic signal heads shall have back plates. All items shall be in accordance with City Specifications.

D4. Pedestrian heads shall be 1) Dialight Countdown Pedestrian Signal •430-6479-001X, 2) Pelco upper and lower arm assembly •SE 3148-P34 and 3) Peek Traffic Maintenance Housing •4302A-02-01-01.

D5. All traffic signal heads shall have High Visibility Back Plates (HVBPs) in accordance with VDOT Instruction & Informational Memorandum IIM-TE-378.

E. CONDUIT, CONDUCTOR, AND ELECTRICAL

E1. All junction boxes shall be Standard JB-S2 unless otherwise noted.

E2. All conduits under pavement shall be bored at a minimum depth of 24". All other conduit shall be installed in accordance with Standard ECI-1 at a minimum depth of 18".

E3. The contractor shall arrange for electrical service for the signal and for natural gas service for the UPS system. All fees required to provide these services shall be billed directly by the Utility Company to the Developer/Contractor. The City Traffic Engineer will furnish the contractor with billing account information for utility companies.

E4. All traffic signal wire shall be number 14 AWG, unless otherwise specified. A continuous wire (no splices) shall be run between the controller cabinet and the signal head.

E5 .Location of junction boxes and Opticom detectors are to be located by the Contractor and field reviewed by the City Traffic Engineer's representative prior to installation.

E6 .Conduits shall be installed so that moisture will drain per Section 700.04(h) of the VDOT Road and Bridge Specifications.

E7. An Uninterruptible Power Supply (UPS) shall be provided with each traffic signal and be CEPSI Model TRUPS-4 with required accessories. The UPS shall include the uninterruptible power supply, batteries, cabinet and the additional equipment necessary to provide power when the electricity is off from the power company. See City website for current specification.

E8. Electrical service shall conform to VDOT Standard SE-5. Safety switches shall be enclosed in a rain tight box conforming to the requirements of NEMA 3R, with a lock-on/lock-off external switch handle. There shall be 100 amp circuit breaker disconnect with 40 amp breakers to the controller and 20 amp breaker to the UPS.

E9. Street lighting luminaires shall feature a "Cobra Head" design with 12' arms and City approved LED light fixtures. See City website for current specifications.

F. INTERCONNECT

F1. Interconnection shall be provided by Fiber Optic Cable. Fiber Optic Interconnection shall be provided with traffic signals on _____ and connected to City network located at _____. Routing of cable shall be approved by City Traffic Engineer. All equipment/methods to be utilized shall be approved by City Traffic Engineer. Standard preapproved equipment list is available from City website.

G. SIGNS AND PAVEMENT MARKINGS

G1. The contractor shall install the pavement markings as shown on plan sheet 17(•) and the roadway plans. All pavement markings that are in conflict shall be eradicated. All pavement markings applied shall be in conformance with the City of Suffolk Pavement Marking Standards and Details available on the City website. Please note that the City Traffic Engineer5•32s office shall be notified 72 hours in advance of any application of pavement markings.

G2. Internally illuminated street name signs shall be Southern Manufacturing Clean Profile LED signs designed and installed in accordance with City specification. See City website for current specifications.

H. TRAFFIC SIGNAL INSPECTION REQUIREMENTS

H1. Prior to any work beginning, a preconstruction meeting will be required with Traffic Engineering. Call (757) 514-7603 to schedule.

H2. A City right-of-way permit shall be secured by the contractor for all work within the public right-of-way (757-514-7610).

H3. A traffic control plan must be approved by Traffic Engineering prior to approval of a right-of-way permit.

H4. A supervisor, certified by IMSA (International Municipal Signal Association) shall be on site anytime work is being completed on a traffic signal. 24-hour, 7-day-a-week contact information for the contractor staff shall be provided to Traffic Engineering prior to right-of-way permit approval.

H5. A 48-hour notification will be required at (757) 514-7603 to schedule inspection of the following items prior to work commencing.

a. All equipment location stake out.

b. All foundations prior to concrete pour, including poles, cabinets and auxiliary equipment.

c. All conduit connections prior to backfilling, including junction box connections.

d. All conduit runs may be required to have a conduit mandral pulled through them prior to wire installation.

e. A Traffic Engineering Representative must be present prior to turn-on of any new equipment/installation.

f. Traffic Engineering will complete an extensive review of all aspects of signal, sign and pavement marking work and any punch list items corrected prior to acceptance by the City.

g. Contractors must secure all required permits for electrical and gas work from the City Department of Planning and Community Development prior to beginning work (757-514-4150).

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)			
Pedestal Pole and Foundation (St'd.PF-2)			
Pedestal Pole and Foundation (St'd.PA-3)			
Traffic Signal Head	w/ Backplate		
	w/o Backplate		
Pedestrian Signal Head			
Pedestrian Pushbutton & Sign		P.B.	P.B.
Traffic Signal Sign	Mast Arm or Span Wire Mt'd.		
	Pole Mounted		E
Emergency Vehicle Pre-emption (EVP) Sensor			
	w/ Conf.Light		
	w/o Conf.Light		
Video Detection Camera			
Junction Box (St'd.as noted on plans)			J
Signal Luminaire (250 W) and Arm			
Signal Luminaire (400 W) and Arm			
Loop Detector (Size as noted on plans)		6' x 20'	6' x 20'
Video Detection Zone (Size as noted on plans)		VDZ 8' x 20'	VDZ 8' x 20'
Conduit			

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Electrical Service Meter		SM	SM
Electrical Service Safety Switch (Disconnect)		SD	SD
Controller Cabinet	Ground Mounted	CC	CC
	Pole Mounted	CC	CC
Master Controller Cabinet	Ground Mounted	MC	MC
	Pole Mounted	MC	MC
Controller Cabinet & Foundation	Std.CF-1	CC 1	CC 1
	Std.CF-3	CC 3	CC 3
	Std.CF-4	CC 4	CC 4
Master Controller Cabinet & Foundation	Std.CF-1	MC 1	MC 1
	Std.CF-3	MC 3	MC 3
	Std.CF-4	MC 4	MC 4
Uninterruptible Power Supply Cabinet		UPS	UPS

LABELS

Signal Pole or Controller	A	Proposed Signal Head	2	Signal Phasing	Ø2	Sign	S-1
Cable and Conduit	A	Existing Signal Head	2	Pedestrian Phasing	P2	Video Detection Camera	VDC-1
Junction Box	S3	Proposed Pedestrian Signal Head	P2			Emergency Preemption Detector	EVP-1
		Existing Pedestrian Signal Head	P2				

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY OF SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
TRAFFIC SIGNAL PLANS : INDEX OF SHEETS, GENERAL NOTES, & LEGEND

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	DEG	19(1)
DATE 5/10/19	DESIGNED BY DEG	
	APPROVED BY WMP	

4:00:39 PM
I:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\69050\69050 Sheets\69050\9_Ldgn

SUMMARY OF QUANTITIES

		TCD Discipline		
		Summary Notes		○
		Item Description		Concrete Foundation Signal Pole
		ITEM NO.		51234
		UNIT		C.Y.
Int. No.	Intersection	SHEET NO.		
1	Bridge Rd.& Walden Rd.	19(3)		10,000
1	Bridge Rd.& Shoulders Hill Rd/Knotts Neck Rd.	19(4)		10,000
	TOTAL			

SUMMARY NOTES

○ Spread Spectrum Transceiver shall be omni directional.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
TRAFFIC SIGNAL PLANS
SUMMARY OF QUANTITIES

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ
DATE 5/10/19
DRAWN BY MSM
DESIGNED BY MSM
APPROVED BY WMP
SHEET NO. 19(2)

4:00:40 PM
I:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\63050\63050 Sheets\d630519_2.dgn

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

Ⓐ EXIST. CONTROLLER CABINET & FOUNDATION (CF-4)
Cabinet door hinge located on right side of pad.

Ⓐ SIGNAL MAST ARM POLE, MP-3 TYPE E1
54.75' LT of Bridge Rd WB Constr. ℄ Sta. 112+11.00
60' Arm 90°00'00" Angle to Bridge Rd WB Constr. ℄
15' Luminaire Arm 90°00'00" Angle to Bridge Rd WB Constr. ℄
Emergency Preemption Detector: 40'
Signal Placement: 60', 49', 38', 27'
Sign Placement: 18.5'
Video Detector: 35'

Ⓑ PEDESTAL POLE (PF-2), 10'
40.00' LT of Bridge Rd WB Constr. ℄ Sta. 112+35.50

Ⓒ PEDESTAL POLE (PF-2), 10'
46.00' RT of Bridge Rd WB Constr. ℄ Sta. 112+47.75

Ⓓ SIGNAL MAST ARM POLE, MP-3 TYPE D
35.50' RT of Walden Rd Constr. ℄ Sta. 300+59.50
35' Arm 270°00'00" Angle to Walden Rd Constr. ℄
15' Luminaire Arm 270°00'00" Angle to Walden Rd Constr. ℄
Emergency Preemption Detector: 26'
Signal Placement: 32', 20', 12'
Sign Placement: 6'

Ⓔ PEDESTAL POLE (PF-2), 10'
27.75' RT of Walden Rd Constr. ℄ Sta. 300+59.50

Ⓕ PEDESTAL POLE (PF-2), 10'
49.00' RT of Bridge Rd EB Constr. ℄ Sta. 213+23.75

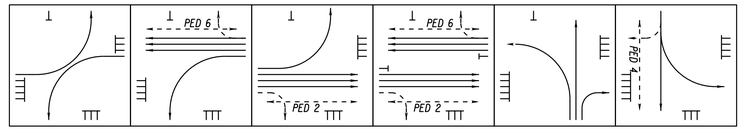
Install Wireless Interconnect Antenna on Mast Arm.
Install Electrical Service, SE-3, Type B on Signal Pole.

Ⓖ EXIST. SIGNAL MAST ARM POLE AND COMB. LUM. POLE
62.50' RT of Bridge Rd EB Constr. ℄ Sta. 213+37.00
65' Arm 270°00'00" Angle to Bridge Rd EB Constr. ℄
15' Luminaire Arm 270°00'00" Angle to Bridge Rd EB Constr. ℄
Exist. Emergency Preemption Detector to Remain: Approx. 32'
Exist. Signal Placement to Remain: Approx. 62', 50', 38', 26'
Exist. Sign Placement to Remain: Approx. 29', 14.5'
Exist. Video Detector to be Removed and Replaced
Video Detector: 56'

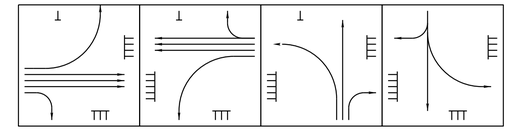
Ⓗ EXIST. SIGNAL MAST ARM POLE, MP-3 TYPE E1
61.00' RT of Bridge Rd EB Constr. ℄ Sta. 212+27.50
50' Arm 00°00'00" Angle to Bridge Rd EB Constr. ℄
15' Luminaire Arm 00°00'00" Angle to Bridge Rd EB Constr. ℄
Exist. Emergency Preemption Detector to Remain: Approx. 24'
Exist. Signal Placement to Remain: Approx. 47', 35'
Exist. Sign Placement to Remain: Approx. 32', 13.5'
Exist. Video Detector to be Removed

NOTE: Luminaire(s) on combination signal pole(s) shall be 165 Watts H.P.S. installed at a mounting height of 30' from the finished roadway surface to the center of the luminaire.

Phasing Diagram



Preemption Diagram



DEMOLITION NOTES:

EXIST. SIGNAL POLES IN NORTHWEST AND NORTHEAST CORNERS TO BE COMPLETELY REMOVED.

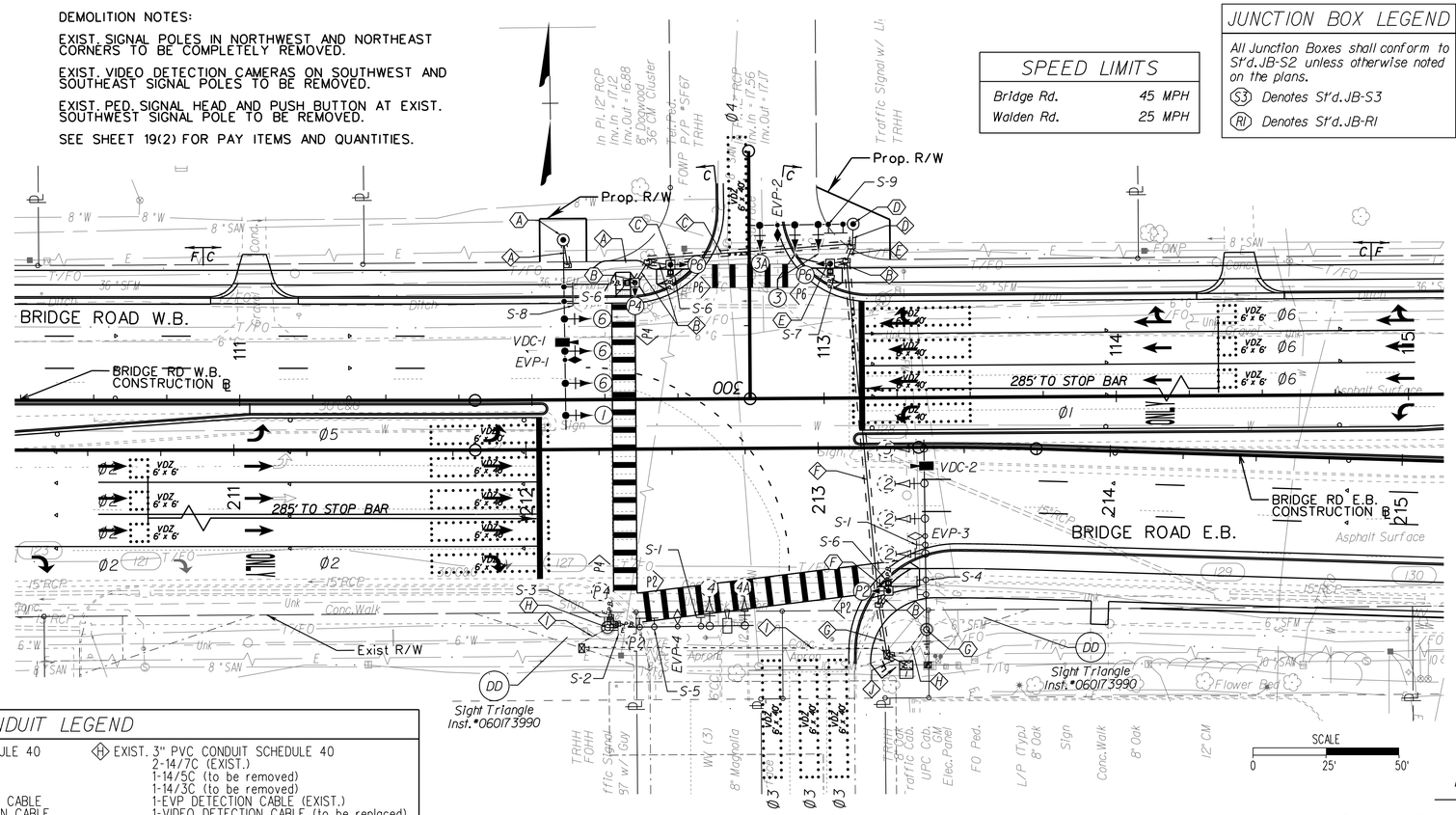
EXIST. VIDEO DETECTION CAMERAS ON SOUTHWEST AND SOUTHEAST SIGNAL POLES TO BE REMOVED.

EXIST. PED. SIGNAL HEAD AND PUSH BUTTON AT EXIST. SOUTHWEST SIGNAL POLE TO BE REMOVED.

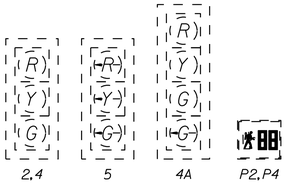
SEE SHEET 19(2) FOR PAY ITEMS AND QUANTITIES.

SPEED LIMITS	
Bridge Rd.	45 MPH
Walden Rd.	25 MPH

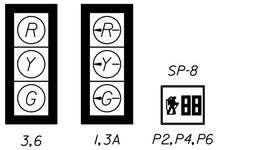
JUNCTION BOX LEGEND
All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.
(S3) Denotes St'd. JB-S3
(R1) Denotes St'd. JB-R1



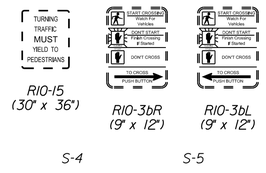
Existing Signals



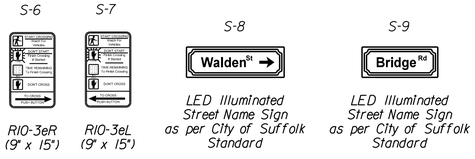
Proposed Signals



Existing Signs



Proposed Signs



CABLE AND CONDUIT LEGEND

Ⓐ 3" PVC CONDUIT SCHEDULE 40
2-14/7C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

Ⓑ 3" PVC CONDUIT SCHEDULE 40
1-14/5C
1-14/3C
1-#8 EGC

Ⓒ BORED CONDUIT HDPE 3"
2-14/7C
2-14/5C
2-14/3C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

Ⓓ 3" PVC CONDUIT SCHEDULE 40
2-14/7C
1-EVP DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

Ⓔ 4" PVC CONDUIT SCHEDULE 40
4-14/7C
2-14/5C
2-14/3C
2-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
2-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

Ⓕ BORED CONDUIT HDPE 3"
4-14/7C
3-14/5C
3-14/3C
2-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
2-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

Ⓖ 3" PVC CONDUIT SCHEDULE 40
4-14/7C
4-14/7C (EXIST.)
4-14/5C
4-14/3C
2-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
2-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

Ⓗ EXIST. 3" PVC CONDUIT SCHEDULE 40
2-14/7C (EXIST.)
1-14/5C (to be removed)
1-14/3C (to be removed)
1-EVP DETECTION CABLE (EXIST.)
1-VIDEO DETECTION CABLE (to be replaced)
1-ANTENNA CABLE
2-#8 (LIGHTING) (EXIST.)
1-#8 EGC (EXIST.)

Ⓘ EXIST. 3" PVC CONDUIT SCHEDULE 40
2-14/7C (EXIST.)
1-14/5C (EXIST.)
1-14/3C (EXIST.)
1-EVP DETECTION CABLE (EXIST.)
1-VIDEO DETECTION CABLE (to be removed)
2-#8 (LIGHTING) (EXIST.)
1-#8 EGC (EXIST.)

Ⓙ 2-4" PVC CONDUIT SCHEDULE 40
4-14/7C
4-14/7C (EXIST.)
3-14/5C
1-14/5C (EXIST.)
3-14/3C
1-14/3C (EXIST.)
2-EVP DETECTION CABLE
2-EVP DETECTION CABLE (EXIST.)
2-VIDEO DETECTION CABLE
1-ANTENNA CABLE (EXIST.)
2-12/3 (STREET NAME SIGN)
2-#8 (LIGHTING)
1-#8 EGC

*ALL BORED CONDUIT SHALL BE HDPE SCHEDULE 80

Color Sequence Chart

	SIGNAL	PHASES 1	2	3	4	5	6			COMBINATIONS 1-5	1-6	2-5	2-6					FLASH
SIGNALS	1	→G	R	R	R	R	R			→G	→G	R	R					R
	2	R	G	R	R	R	R			R	R	G	G					Y
	3	R	R	G	R	R	R			R	R	R	R					R
	3A	R	R	→G	R	R	R			R	R	R	R					R
	4	R	R	R	G	R	R			R	R	R	R					R
	4A	R	R	R	→G G	R	R			R	R	R	R					R
	5	R	R	R	R	→G	R			→G	R	→G	R					R
	6	R	R	R	R	R	G			R	G	R	G					Y
	P2	DW	W	DW	DW	W	W			DW	DW	W	W					BLANK
	P4	DW	DW	DW	W	DW	DW			DW	DW	DW	DW					BLANK
	P6	W	W	DW	DW	DW	W			DW	W	DW	W					BLANK

NOTE: PEDESTRIAN SIGNALS SHALL DISPLAY THE DON'T WALK SYMBOL DURING EMERGENCY PREEMPTION ACTIVATION.

NANSEMOND 1646 SUFFOLK 1742 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
TRAFFIC SIGNAL PLANS
BRIDGE RD. & WALDEN RD.

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

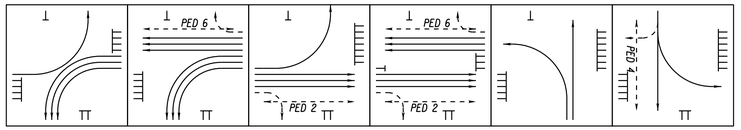
CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	DEG
M. VELASQUEZ	DESIGNED BY	DEG
DATE 5/10/19	APPROVED BY	WMP

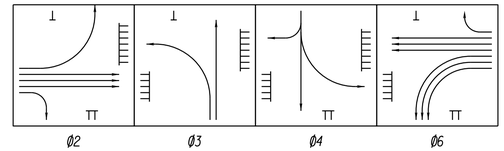
SHEET NO. 19(3)

4:00:42 PM
I:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\69050\69050 Sheets\d69050l9_3.dgn

Phasing Diagram



Preemption Diagram

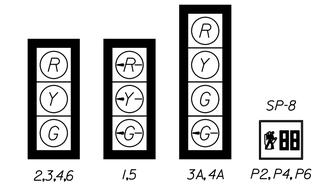


Color Sequence Chart

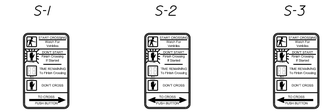
SIGNALS	SIGNAL	PHASES 1	2	3	4	5	6			COMBINATIONS 1-5	1-6	2-5	2-6					FLASH
	1	→G	R	R	R	R	R			→G	→G	R	R					R
	2	R	G	R	R	R	R			R	R	G	G					Y
	3	R	R	G	R	R	R			R	R	R	R					R
	3A	R	R	→G	G	R	R			R	R	R	R					R
	4	R	R	R	G	R	R			R	R	R	R					R
	4A	R	R	R	→G	G	R			R	R	R	R					R
	5	R	R	R	R	G	R			→G	R	→G	R					R
	6	R	R	R	R	R	G			R	G	R	G					Y
	P2	DW	W	DW	DW	W	W			DW	DW	W	W					BLANK
	P4	DW	DW	DW	W	DW	DW			DW	DW	DW	DW					BLANK
	P6	W	W	DW	DW	DW	W			DW	W	DW	W					BLANK

NOTE: PEDESTRIAN SIGNALS SHALL DISPLAY THE DON'T WALK SYMBOL DURING EMERGENCY PREEMPTION ACTIVATION.

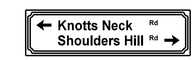
Proposed Signals



Proposed Signs



S-4



LED Illuminated
Street Name Sign
as per City of Suffolk Standard

S-5

LED Illuminated
Street Name Sign
as per City of Suffolk Standard

S-6

LED Illuminated
Street Name Sign
as per City of Suffolk Standard

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

(H) CONTROLLER CABINET & FOUNDATION (CF-4)
Cabinet door hinge located on right side of pad.

(A) SIGNAL MAST ARM POLE, MP-3 TYPE F
50.00' RT of Bridge Rd EB Constr. ℄ Sta. 221+62.80
15' Luminaire Arm 270°00'00" Angle to Bridge Rd EB Constr. ℄
60' Arm 270°00'00" Angle to Bridge Rd EB Constr. ℄
Signal Placement: 13', 24', 35', 46', 57', 63'
Emergency Preemption Detector: 38'
Video Detector: 42'
Sign Placement: 7'
15' Luminaire Arm 180°00'00" Angle to Bridge Rd EB Constr. ℄
60' Arm 180°00'00" Angle to Bridge Rd EB Constr. ℄
Signal Placement: 23', 35', 45', 53'
Emergency Preemption Detector: 29', 49'
Video Detector: 42'
Sign Placement: 14.5'

(B) PEDESTAL POLE (PF-2), 10'
61.00' RT of Bridge Rd EB Constr. ℄ Sta. 220+63.50

(C) PEDESTAL POLE (PF-2), 10'
63.00' RT of Bridge Rd EB Constr. ℄ Sta. 220+31.00

(D) PEDESTAL POLE (PF-2), 10'
18.00' RT of Bridge Rd WB Constr. ℄ Sta. 120+27.00

(E) SIGNAL MAST ARM POLE, MP-3 TYPE E1
52.50' LT of Bridge Rd WB Constr. ℄ Sta. 120+24.00
65' Arm 90°00'00" Angle to Bridge Rd WB Constr. ℄
15' Luminaire Arm 90°00'00" Angle to Bridge Rd WB Constr. ℄
Signal Placement: 16', 27', 38', 49', 60'
Emergency Preemption Detector: 45'
Video Detector: 41'
Sign Placement: 15'

NOTE:

(F) PEDESTAL POLE (PF-2), 10'
62.00' LT of Bridge Rd WB Constr. ℄ Sta. 120+56.00

(G) PEDESTAL POLE (PF-2), 10'
62.00' LT of Bridge Rd WB Constr. ℄ Sta. 120+27.00

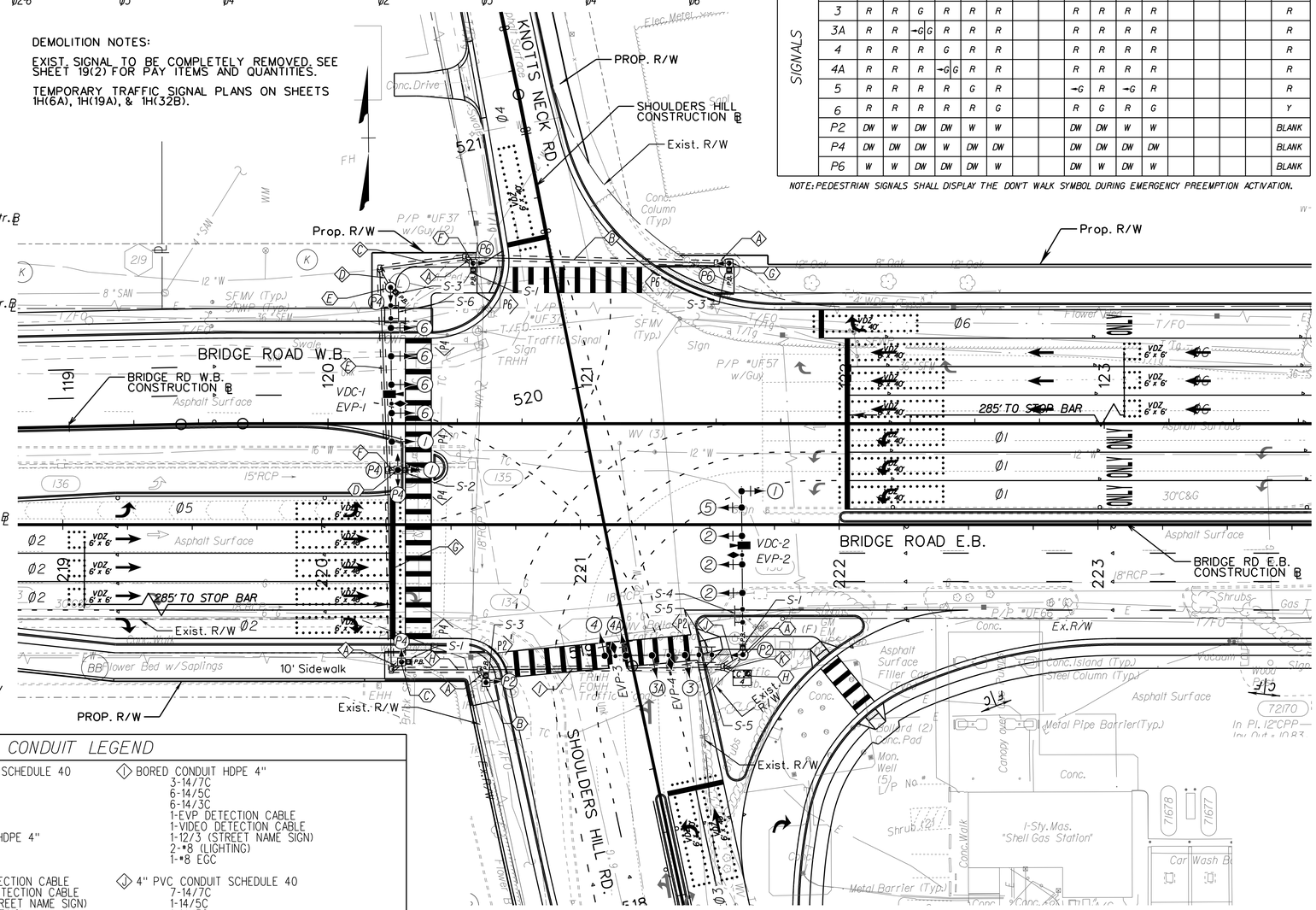
Install Wireless Interconnect Antenna on Mast Arm.
Install Electrical Service, SE-3, Type A on Signal Pole.

Luminaire(s) on combination signal pole(s) shall be 165 W H.P.S. installed at a mounting height of 30.0' from the finished roadway surface to the center of the luminaire.

DEMOLITION NOTES:

EXIST. SIGNAL TO BE COMPLETELY REMOVED. SEE SHEET 19(2) FOR PAY ITEMS AND QUANTITIES.

TEMPORARY TRAFFIC SIGNAL PLANS ON SHEETS 1H(6A), 1H(19A), & 1H(32B).



CABLE AND CONDUIT LEGEND

(A) 3" PVC CONDUIT SCHEDULE 40
1-14/5C
1-14/3C
1-*8 EGC

(B) BORED CONDUIT HDPE 3"
1-14/5C
1-14/3C
1-*8 EGC

(C) 3" PVC CONDUIT SCHEDULE 40
2-14/5C
2-14/3C
1-*8 EGC

(D) 3" PVC CONDUIT SCHEDULE 40
2-14/7C
1-14/5C
1-14/3C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

(E) BORED CONDUIT HDPE 4"
2-14/7C
3-14/5C
3-14/3C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

(F) 3" PVC CONDUIT SCHEDULE 40
1-14/7C
1-14/5C
1-14/3C
1-*8 EGC

(G) BORED CONDUIT HDPE 4"
3-14/7C
4-14/5C
4-14/3C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

(H) 4" PVC CONDUIT SCHEDULE 40
3-14/7C
5-14/5C
5-14/3C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

(I) BORED CONDUIT HDPE 4"
3-14/7C
6-14/5C
6-14/3C
1-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
1-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

(J) 4" PVC CONDUIT SCHEDULE 40
7-14/7C
1-14/5C
1-14/3C
3-EVP DETECTION CABLE
1-VIDEO DETECTION CABLE
2-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

(K) 2-4" PVC CONDUIT SCHEDULE 40
10-14/7C
7-14/5C
7-14/3C
4-EVP DETECTION CABLE
2-VIDEO DETECTION CABLE
3-12/3 (STREET NAME SIGN)
2-*8 (LIGHTING)
1-*8 EGC

*ALL BORED CONDUIT SHALL BE HDPE SCHEDULE 80

SPEED LIMITS

Bridge Rd.	45 MPH
Shoulders Hill Rd.	45 MPH
Knotts Neck Rd.	35 MPH

JUNCTION BOX LEGEND

All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.

(S3) Denotes St'd. JB-S3

(RI) Denotes St'd. JB-RI

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
TRAFFIC SIGNAL PLAN BRIDGE RD & SHOULDERS HILL RD/KNOTTS NECK RD

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	DEG
DESIGNED BY	DEG
APPROVED BY	WMP
SHEET NO.	19(4)

4:00:43 PM
i:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\69050\69050 Sheets\d690509 19_4.dgn

GENERAL NOTES

1. LOCATION, DEPTHS AND SIZES OF EXISTING UTILITIES SHOWN ON THE PLANS ARE NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY WITH TEST HOLES THE LOCATION, ELEVATION, TYPE, ROUNDNESS AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND POINTS OF CONNECTION PRIOR TO EXCAVATION, ORDERING OF MATERIALS AND INSTALLATION FOR THIS PROJECT.

2. THE CONTRACTOR SHALL NOTE THAT THE UTILITY PLAN SHEETS ARE FOR CITY OF SUFFOLK WATER/SEWER WORK ONLY. THE CONTRACTOR SHALL REFER TO THE ROADWAY PLANS FOR ROADWAY AND DRAINAGE DESIGN.

3. NO VALVES OR OTHER CONTROL DEVICE ON THE EXISTING WATER AND SEWER SYSTEM SHALL BE OPERATED FOR ANY PURPOSE BY THE CONTRACTOR. CITY EMPLOYEES WILL OPERATE ALL EXISTING VALVES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SUFFOLK PUBLIC UTILITIES/CONSTRUCTION INSPECTION DIVISION (757-514-7078, CONTACT: MR. GENE WEAVER) 48 HOURS PRIOR TO THE NEED FOR VALVE OPERATIONS.

4. THE CONTRACTOR SHALL NOTIFY CITY OF SUFFOLK PUBIC UTILITIES (757-514-7078) IMMEDIATELY IF ANY EXISTING WATER OR SEWER FACILITY IS DISTURBED.

5. THE CONTRACTOR SHALL NOT PERFORM ANY GRADING OPERATIONS OVER EXISTING WATER AND SEWER FACILITIES WITHIN THE PROJECT WHICH WOULD IN ANY WAY JEOPARDIZE SERVICES UNTIL THE PROPOSED WATER AND SEWER FACILITIES ARE INSTALLED AND PLACED INTO OPERATION AND EXISTING WATER AND SEWER FACILITIES ARE REMOVED. ANY DEVIATION MUST BE APPROVED BY THE OWNER.

6. EXISTING MAINS AND WATER SERVICES SHALL REMAIN IN SERVICE UNTIL NEW MAINS AND SERVICES ARE PLACED IN SERVICE AND APPROVED BY THE OWNER. PROPOSED FIRE HYDRANTS SHALL REMAIN COVERED BY MEANS OF SECURELY ATTACHED BURLAP BAGS UNTIL TESTED AND PLACED IN SERVICE.

7. THE CONTRACTOR SHALL NOT INSTALL WATER MAIN JOINTS BENEATH PROPOSED OR EXISTING UTILITIES OR PROPOSED VDOT STORM DRAINAGE WHEN CROSSING UNDER THESE STRUCTURES. A MINIMUM CLEARANCE OF 8 TO 10 FEET BEYOND THE OUTSIDE OF THE FOREIGN PIPE OR UTILITY SHALL BE REQUIRED WHEN PLACING JOINTS.

8. INSTALL VALVES WITH OPERATOR STEMS IN THE VERTICAL PLANE THROUGH THE PIPE AXIS AND PERPENDICULAR TO THE PIPE AXIS. LOCATE VALVES AS SHOWN ON DRAWINGS. NO VALVES SHALL BE LOCATED UNDER A CONCRETE GUTTER.

9. WATER MAIN SHALL BE LAID WITH BELL ENDS FACING THE DIRECTION OF LAYING. WHERE GRADE IS 10 PERCENT OR GREATER, PIPE SHALL BE LAID UPHILL WITH BELL ENDS UPGRADE.

10. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTH OF ALL OPERATIONAL SANITARY SERVICE LATERALS PRIOR TO CONSTRUCTION OR ADJUSTMENT OF THE UTILITY SYSTEMS. CONTRACTOR TO SCHEDULE SANITARY SEWER LATERAL CONNECTIONS WITH THE PROPERTY OWNER, USER, AND CITY OF SUFFOLK. THE CONTRACTOR SHALL NOTIFY THE CITY OF SUFFOLK DEPARTMENT OF UTILITIES AT LEAST 48-HOURS IN ADVANCE OF A SERVICE CHANGE-OVER.

11. ALL EXISTING VALVE BOXES, SANITARY SEWER MANHOLES, CLEAN OUTS, ETC. ON ACTIVE SYSTEMS SHALL BE ADJUSTED TO FINISH GRADE AS REQUIRED, REGARDLESS IF THEY ARE SHOWN ON THE PLANS.

12. THE CONTRACTOR, WITH HIS ASSOCIATED MATERIALS SUPPLIERS, SHALL PROVIDE CERTIFICATION ACCEPTABLE TO THE OWNER, THAT ALL PIPE MATERIALS SUPPLIED ON THE PROJECT MEET OR EXCEED THE SPECIFICATIONS.

13. ALL THRUST PROTECTION INSTALLED UNDER THIS CONTRACT SHALL BE PLACED BEFORE BACKFILLING OF THE TRENCH AND INSPECTED BY THE OWNER. TEMPORARY BUTTRESSING FOR TESTING SHALL BE PROVIDED BY THE CONTRACTOR. INSTALLATION OF APPROVED RETAINER GLANDS, TIE RODS, AND OTHER THRUST RESTRAINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

14. ALL IN-LINE VALVES OF ABANDONED WATER MAINS, SHALL BE ABANDONED BY HAVING CITY OF SUFFOLK FORCES CLOSE THE VALVE. THE CONTRACTOR SHALL THEN REMOVE THE OPERATING NUT AND CASTINGS, BACKFILL WITH SELECT MATERIAL AND PERFORM THE NECESSARY RESTORATION.

15. CONTRACTOR SHALL RESTRAIN EXISTING PIPE AT CONNECTIONS TO PROPOSED PIPE AND AT PLUGS IN ACCORDANCE WITH THE RESTRAINED LENGTH OF PIPE INDICATED ON THE DRAWINGS.BACKFILL REQUIREMENTS AT CONNECTION POINTS SHALL INCLUDE THE PLACEMENT OF CRUSHED STONE IN THE PIPE TRENCH BETWEEN THE TRENCH WALL AND THE PIPE AT A DEPTH OF NO LESS THAN THE SPRING LINE OF THE PIPE BEFORE THE PIPE IS PRESSURIZED. AT ALL OTHER LOCATIONS, ALL REQUIRED RESTRAINED PIPE LENGTHS SHALL BE BACKFILLED AND COMPACTED AS SPECIFIED PRIOR TO PRESSURIZING THE PIPE.

16. CONTRACTOR SHALL RECORD AND PROVIDE TO THE ENGINEER AND OWNER ACTUAL GROUND TOP OF PIPE ELEVATIONS, ACTUAL STATIONS AND OFFSETS, AT ALL FITTINGS, CONNECTION POINTS AND HORIZONTAL DEVIATIONS GREATER THAN TWO (2) FEET FROM THE PLANS. STATION REFERENCES SHALL BE TIED TO CONSTRUCTION CENTER LINE FOR THE ROADWAY IMPROVEMENTS. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER AND OWNER WITHIN FIVE (5) DAYS OF COMPLETION OF THE UTILITY ADJUSTMENTS.

17. THE CONTRACTOR SHALL COMPLY WITH "MISS UTILITY" REQUIREMENTS PRIOR TO PERFORMING ANY EXCAVATION (DIAL 811).

OWNER: CITY OF SUFFOLK
POC: SHERRY EARLEY, PE
442 W. WASHINGTON ST.
P.O. BOX 1858
SUFFOLK, VA 23439
(757) 514-7703

CITY OF SUFFOLK UTILITY
POC: DEAN ADAMS
UTILITY CONSTRUCTION MANAGER
(757) 514-7029

ENGINEER: CLARK NEXSEN
POC: IAN JOHNSTON, PE
4525 MAIN ST., STE. 1400
VIRGINIA BEACH, VA 23462
(757) 455-5800

INDEX OF SHEETS

Sheet No.:	Sheet Description:
20(1)	INDEX OF SHEETS AND UTILITY NOTES
20(1A)	UTILITY NOTES
20(1B)	UTILITY NOTES
20(2)	UTILITY DETAILS
20(2A)	UTILITY DETAILS
20(2B)	UTILITY DETAILS
20(2C)	HRSD NOTES AND DETAILS
20(3)	UTILITY PLAN STA 100+00 - 105+00
20(4)	UTILITY PLAN STA 105+00 - 112+00
20(5)	UTILITY PLAN STA 112+00 - 119+00
20(6)	UTILITY PLAN STA 119+00 - 126+00
20(7)	UTILITY PLAN STA 126+00 - 133+00
20(8)	UTILITY PLAN STA 133+00 - 140+00
20(9)	UTILITY PLAN STA 140+00 - 147+00
20(10)	UTILITY PLAN STA 147+00 - 154+00
20(11)	UTILITY PLAN STA 154+00 - 158+00
20(12)	UTILITY PLAN STA 500+00 - 504+75
20(13)	UTILITY PLAN STA 504+75 - 511+25
20(14)	UTILITY PLAN STA 511+25 - 517+50
20(15)	UTILITY PLAN STA 521+50 - 524+00

18. SYSTEM SHUTDOWN OPERATION:

A. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF UTILITY CONSTRUCTION TO THE CITY OF SUFFOLK PUBLIC UTILITIES DEPARTMENT A MINIMUM OF 14 DAYS PRIOR TO PRECONSTRUCTION CONFERENCE. SEQUENCE OF UTILITY CONSTRUCTION SHALL CONSIST OF A PRELIMINARY LIST OF DATES FOR UTILITY TIE-INS, CONNECTIONS AND SHUTDOWNS AND A LIST OF EQUIPMENT AND MATERIALS NEEDED TO PERFORM THE WORK. THE CONTRACTOR SHALL ALSO PROVIDE AT THIS TIME THE ANTICIPATED SHUTDOWN TIME REQUIRED AS WELL AS ANTICIPATED TIME OF DAY SCHEDULES FOR THE TIE-INS, CONNECTIONS AND SHUTDOWNS.

B. CONTRACTOR SHALL GIVE A TWO (2) WEEK NOTICE IN WRITING TO SUFFOLK PUBLIC UTILITIES FOR EACH CONNECTION AND/OR ADJUSTMENT TO THE EXISTING FACILITIES OWNED BY SUFFOLK. NO GUARANTEE CAN BE MADE THAT A FULL AND COMPLETE SHUTOFF OF SUFFOLK FACILITIES CAN BE MADE TO FACILITATE CONNECTIONS TO EXISTING MAINS. THE CONTRACTOR SHALL HAVE ADEQUATE PUMPING CAPABILITIES ON SITE TO HANDLE ANY EXCESS WATER. THE WRITTEN NOTIFICATION SHALL ALSO INCLUDE A SKETCH THAT INCLUDES EXISTING PIPE ELEVATIONS AND THE LOCATION OF JOINTS WITH RESPECT TO THE PROPOSED WATER MAIN TIE-IN LOCATIONS.

C. THE EXISTING CITY OF SUFFOLK FACILITIES,WITH THE EXCEPTION OF THE GRAVITY SEWER, WHICH SHALL REMAIN ACTIVE AT ALL TIMES, SHALL BE DEACTIVATED FOR A MAXIMUM PERIOD OF SIX (6) HOURS (NIGHTTIME SHUTDOWN) FOR EACH SCHEDULED SHUTDOWN. THE CONTRACTOR SHALL MAKE AS MANY CONNECTIONS AS PRACTICAL DURING EACH SHUTDOWN PERIOD.

D. PRIOR TO CUTTING ANY WATER/ SEWER MAIN, THE CONTRACTOR SHALL HAVE ALL FITTINGS, VALVES, PIPE AT THE SITE AND SHALL VERIFY IN THE PRESENCE OF THE OWNER, THE CITY OF SUFFOLK THROUGH FIELD MEASUREMENTS, THAT ALL PIPING, FITTINGS AND VALVES WILL ALIGN AND FIT PROPERLY WITH THE EXISTING FACILITIES. NO WATER CAN BE IN THE TRENCH WITHIN TWO (2) FEET OF THE INVERT OF THE EXISTING MAIN. PRIMARY AND BACKUP PUMPING SHALL BE ON SITE TO REMOVE STANDING WATER IN THE TRENCH. EXISTING MAINS SHALL BE CAPPED AND RESTRAINED AT THE CONNECTION POINTS TO PREVENT DEBRIS FROM ENTERING THE MAINS DURING INSTALLATION OF THE PROPOSED PIPE. FURTHERMORE, ALL NEWLY CONSTRUCTED PIPE AND APPURTENANCES SHALL HAVE PASSED ALL NECESSARY TESTS IN THE PRESENCE OF AN INSPECTOR FROM THE CITY OF SUFFOLK AND SHALL BE CAPABLE OF BEING ACTIVATED ONCE THE ADJUSTMENT WORK HAS BEEN COMPLETED. CONNECTION TO EXISTING LINES SHALL BE MADE ONLY AFTER THE LINE IS INSTALLED, TESTED, AND APPROVED BY THE OWNER.

19. ACCESS TO ALL IN-SERVICE PUBLIC AND PRIVATE FIRE HYDRANTS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM CLEAR SPACE OF A 10 FOOT RADIUS AROUND THE HYDRANTS SHALL BE KEPT CLEAR OF ALL SOIL, STONE, MATERIALS, EQUIPMENT, AND OTHER OBSTRUCTIONS. THE CONTRACTOR SHALL NOTIFY THE CITY OF SUFFOLK 48 HOURS PRIOR TO WORK ON EXISTING FIRE HYDRANTS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL SCHEDULE HYDRANT INSTALLATIONS SO THAT NO TWO HYDRANTS IN LINE WILL BE OUT OF SERVICE AT THE SAME TIME. THE CONTRACTOR SHALL ALSO SEQUENCE EACH HYDRANT INSTALLATION FOR MINIMAL AMOUNT OF DOWNTIME. ALL POSSIBLE TRENCHING AND ASSEMBLY REQUIRED FOR THE NEW HYDRANT SHALL BE DONE PRIOR TO TAKING THE OLD HYDRANT OFF LINE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SUFFOLK PUBLIC UTILITIES FOR TESTING AND PAINTING OF NEW HYDRANTS. FIRE HYDRANT PAINTING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF INSTALLATION AND SHALL BE IN ACCORDANCE WITH THE MATERIAL NOTE FOR FIRE HYDRANTS. ABANDONED FIRE HYDRANTS SHALL BE SALVAGED BY THE CITY OF SUFFOLK, AFTER REMOVAL BY THE CONTRACTOR.

20. FLUSHING AND DISINFECTION OF WATER MAINS: THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE PRIOR TO SCHEDULED TESTING, FLUSHING AND INSPECTION. ONLY PROPERLY FUNCTIONING AND CLEAN EQUIPMENT SHALL BE USED FOR DISINFECTING WATER MAINS.

DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA C651, LATEST REVISION AND VIRGINIA DEPARTMENT OF HEALTH WATERWORKS REGULATIONS, NO. 12 VAC 5-590-800-DISINFECTION. DISINFECTION PROCEDURE SHALL BE CARRIED OUT AFTER COMPLETION OF CONSTRUCTION AND IMMEDIATELY BEFORE THE MAINS ARE PLACED INTO SERVICE. DURING CONSTRUCTION, PRECAUTIONS SHALL BE TAKEN TO PROTECT PIPE INTERIORS, FITTINGS, AND VALVES AGAINST CONTAMINATION.

CLEANING AND SWABBING OF THE INTERIOR OF THE PIPE MAY BE REQUIRED IF CONTAMINATION CANNOT BE REMOVED BY ORDINARY FLUSHING AND DISINFECTION PROCEDURES. THE CLEANING AND SWABBING SHALL BE PERFORMED WITH A 5% HYPOCHLORITE DISINFECTING SOLUTION, OR OTHER DISINFECTING AGENT APPROVED BY THE INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TREATING THE DISCHARGE DURING DISINFECTION, TESTING, AND FLUSHING ACTIVITIES.

WATER MAINS SHALL BE FLUSHED EVERY 2,000 FEET UNLESS THE INSPECTOR GIVES THE CONTRACTOR WRITTEN PERMISSION FOR FLUSHING LONGER LENGTHS OF PIPELINE DUE TO DRAINAGE CONSIDERATIONS. NO MORE THAN 4,000 FEET OF PIPELINE SHALL BE FLUSHED AT ANY ONE TIME, UNDER ANY CIRCUMSTANCES.

ALL WATER MAINS SHALL BE FLUSHED WITH POTABLE WATER PRIOR TO DISINFECTION. THE FLUSHING VELOCITY SHALL NOT BE LESS THAN 3.0 FPS. NO SITE FOR FLUSHING SHALL BE USED UNLESS ADEQUATE AND SATISFACTORY DRAINAGE IS PRESENT, AVAILABLE, AND OPERATIONAL. IT SHALL BE NOTED THAT UNDER NO CIRCUMSTANCES WILL PRELIMINARY FLUSHING BE CONSIDERED A SUBSTITUTE FOR PREVENTATIVE MEASURES TAKEN BEFORE AND DURING WATER MAIN CONSTRUCTION TO MINIMIZE CONTAMINATION.

ACCEPTABLE DISINFECTING SOLUTIONS SHALL INCLUDE CHLORINE IN LIQUID FORM, IN CALCIUM HYPOCHLORITE GRANULES OR IN SODIUM HYPOCHLORITE SOLUTIONS. ALL HYPOCHLORITE SHALL CONFORM TO AWWA B300, LATEST REVISION. THE CHLORINE CONCENTRATION IN THE NEWLY INSTALLED MAIN SHALL BE INTRODUCED AT A MINIMUM 50 MG/L AVAILABLE CHLORINE. THE CHLORINATED WATER SHALL BE RETAINED IN THE MAIN FOR AT LEAST 24 HOURS DURING WHICH TIME ALL VALVES AND APPURTENANCES IN THE SECTION TREATED SHALL BE OPERATED IN ORDER TO DISINFECT THE APPURTENANCES. AFTER THE RETENTION PERIOD, ALL OF THE CHLORINATING AGENTS SHALL BE THOROUGHLY FLUSHED FROM THE SYSTEM UNTIL THE REPLACEMENT WATER SHALL, UPON TESTING, BE PROVEN BOTH BACTERIOLOGICALLY AND CHEMICALLY SATISFACTORY TO THE INSPECTOR, THE STATE BOARD OF HEALTH, AND OTHER COGNIZANT PUBLIC HEALTH AGENCIES. THE FLUSHING SHALL BE CONDUCTED IN THE PRESENCE OF AND ONLY WITH THE APPROVAL OF THE OWNER.

AFTER FINAL FLUSHING AND BEFORE THE WATER MAIN IS PLACED IN SERVICE, THE CONTRACTOR SHALL COLLECT SAMPLES AND HAVE THE SAMPLES TESTED FOR BACTERIOLOGICAL QUALITY BY A STATE HEALTH DEPARTMENT APPROVED LABORATORY. SAMPLES TAKEN FROM CITY OF SUFFOLK FACILITIES SHALL BE TAKEN TO THE CITY OF SUFFOLK LABORATORY FOR TESTING PURPOSES. BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH VIRGINIA DEPARTMENT OF HEALTH'S WATERWORKS REGULATIONS, NO. 12 VAC 5-590-800-DISINFECTION. AT LEAST TWO CONSECUTIVE SATISFACTORY BACTERIOLOGICAL SAMPLES SHALL BE TAKEN FROM SECTIONS NOT EXCEEDING 2,000 FEET IN LENGTH AT 24-HOUR INTERVALS. CHLORINE RESIDUALS MEASUREMENTS SHALL BE TAKEN AND RECORDED AT THE TIME EACH SAMPLE IS COLLECTED.

IF THE INITIAL DISINFECTION PROCEDURE PRODUCES POSITIVE RESULTS FOR COLIFORM, THE MAIN SHALL BE RE-FLUSHED AND THE SAMPLING PROCEDURE REPEATED. IF THESE SAMPLES ARE POSITIVE FOR COLIFORM, THEN THE MAIN SHALL BE RE-CHLORINATED AND THE SAMPLING PROCEDURE REPEATED.

THE DISINFECTION AND TESTING PROCEDURE SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR. WATER MAINS SHALL BE PLACED IN SERVICE ONLY AFTER FINAL APPROVAL HAS BEEN ISSUED BY THE OWNER CONTINGENT UPON TEST RESULTS. BEFORE THE INSPECTOR SHALL WITNESS THE STERILIZATION, HE SHALL ENSURE THAT THE CONTRACTOR HAS TAKEN ADEQUATE MEASURES TO PROTECT THE PUBLIC FROM THE HAZARDS POSTED BY THE ESCAPE OF CHLORINE IF LIQUID CHLORINE OR CHLORINE GAS IS USED. AT A MINIMUM, THE CONTRACTOR SHALL HAVE ON HAND ONE (1) CHLORINE INSTITUTE APPROVED MASK AND REPAIR KIT FOR THE CHLORINE GAS CYLINDER BEING USED.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 UTILITY PLANS INDEX OF SHEETS AND UTILITY NOTES	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ DATE: 5/10/19 DRAWN BY: JLM DESIGNED BY: ERM APPROVED BY: DMP	SHEET NO. 20(1)

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GENERAL NOTES (CONTINUED)

21. TESTING OF WATER AND SEWER MAINS

   A. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO THE PRESSURE TEST DATE. WATER FOR THE TEST MAY BE OBTAINED FROM THE EXISTING SYSTEM, WITH PRIOR APPROVAL FROM THE OWNER. SUFFOLK FACILITIES SHALL BE TESTED AFTER THE CORPORATION STOP HAS BEEN INSTALLED.

   B. NEW WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600, LATEST REVISION EXCEPT AS MODIFIED HEREIN. WATER MAINS SHALL BE FILLED WITH CLEAN WATER AND SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF 1.5 TIMES THE EXPECTED WORKING PRESSURE OR 150 PSI, WHICHEVER IS GREATER, MEASURED AT THE HIGHEST POINT ALONG THE TEST SECTION. THE PRESSURE TEST SHALL BE OF AT LEAST A TWO HOUR DURATION AND ANY DAMAGED OR DEFECTIVE PIPE, FITTINGS, VALVES, OR HYDRANTS THAT ARE DISCOVERED FOLLOWING THE PRESSURE TEST SHALL BE REPLACED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT, MATERIALS, TEST PLUGS, AND LABOR FOR MAKING THE TESTS AS SPECIFIED. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, AIR SHALL BE EXPELLED COMPLETELY FROM THE PIPE, VALVES, AND HYDRANTS. HYDRANTS SHALL BE TESTED WITH THE MAIN LINE.

   C. THE CONTRACTOR SHALL TEST THE LINE PRIOR TO CONTACTING THE OWNER FOR THE FORMAL PRESSURE TEST.

   D. TESTING SHALL BE PERFORMED ON EACH SECTION OF PIPE BETWEEN MAIN LINE VALVES.

   E. WATER FOR PRESSURE TEST SHALL BE OBTAINED THROUGH A FULLY VALVED MANIFOLD WITH AN APPROVED BACKFLOW PREVENTER.

   F. THE CONTRACTOR SHALL FURNISH ALL PUMPS, FITTINGS, AND GAUGES AS NECESSARY TO FILL THE LINE WITH POTABLE WATER, DISPEL AIR FROM THE SYSTEM, AND PRESSURIZE THE PIPELINE FOR THE TESTS.

   G. THE OWNER RESERVES THE RIGHT TO TEST GAUGES TO DETERMINE THEIR ACCURACY.

   H. THE CONTRACTOR SHALL COORDINATE ARRANGEMENTS FOR WATER TO BE USED FOR THE PRESSURE TESTING WITH THE OWNER.

   I. THE TEST PRESSURE SHALL NOT VARY BY MORE THAN +/- 5 PSI FOR THE DURATION OF THE TEST.

   J. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY RESTRAINT AND SUPPORT DURING TESTING AT NO ADDITIONAL COST TO THE PROJECT.

   K. THE LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH THE PRESSURE TEST. NO PIPE INSTALLATIONS WILL BE ACCEPTED IF ANY LEAKAGE SHOWS AT ANY JOINT AND THE CONDITION MUST BE CORRECTED AND ANOTHER TEST MADE.

22. CONTRACTOR SHALL FURNISH EIGHT COPIES OF ALL SHOP DRAWINGS TO THE ENGINEER PRIOR TO CONSTRUCTION AND/OR INSTALLATION OF CITY OF SUFFOLK FACILITIES AND RELATED ITEMS. ANY ITEMS INSTALLED PRIOR TO APPROVAL OF SHOP DRAWINGS ARE DONE AT THE CONTRACTOR'S RISK AND MAY BE SUBJECT TO REMOVAL AND CORRECT INSTALLATION AT THE CONTRACTOR'S EXPENSE.

23. SUBMITTALS:

   A. SUBMIT SHOP DRAWINGS (8 COMPLETE SETS) OF THE FOLLOWING, IN ADDITION TO SUBMITTALS REQUIRED BY OTHER SECTIONS OF THE CONTRACT DOCUMENTS:

PIPE	METHOD OF JOINT RESTRAINT
SOLID SLEEVES	TRANSITION COUPLINGS
VALVES	METHOD OF CONNECTION TO EXIST. MAINS
VALVE BOXES	SEQUENCE OF CONSTRUCTION
FITTINGS	DISSIMILAR MATERIAL PIPE JOINTS
GASKETS	MANHOLE CONNECTION
RESTRAINED JOINTS	MANHOLES
RETAINER GLANDS	MANHOLE FRAMES & COVER
FIRE HYDRANTS	MANHOLE STEPS
WATER METERS	
METER BOXES	

24. EACH UTILITY PLAN SHEET HAS A BASE NUMBER WITH A SUFFIX NUMBER IN PARENTHESES (EXAMPLE 20(6), 20(6A), ETC.). REFERENCES WITHIN UTILITY ADJUSTMENT PLANS REFER TO THE SUFFIX NUMBER ONLY.

25. ALL ITEMS OF MATERIAL, LABOR, SUPPLIES OR EQUIPMENT THAT ARE NOT SPECIFICALLY LISTED AS A PAY ITEM, BUT WHICH ARE REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS, ARE CONSIDERED SUBSIDIARY OBLIGATIONS OF THE CONTRACTOR. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THEM.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEWAGE OVERFLOWS OR SPILLAGE DURING SANITARY SEWER SYSTEM SHUTDOWN OR CONNECTIONS. ONCE GRAVITY SANITARY SEWER FACILITIES HAVE BEEN SHUTDOWN OR PUMP STATIONS PUMPED DOWN, THE CONTRACTOR SHALL PROVIDE STANDBY SEWAGE PUMPING AND HAULING OR BY-PASS PUMPING TECHNIQUES FOR THE DISPOSAL OF ALL OVERFLOWS WHICH MAY OCCUR IN THE SHUTDOWN OF THE SANITARY SEWER SYSTEM FACILITIES. THE METHOD FOR MAINTAINING SEWAGE CONVEYANCE SHALL BE APPROVED BY THE CITY OF SUFFOLK PUBLIC UTILITIES PRIOR TO SYSTEM SHUTDOWN.

MATERIAL NOTES

NOTE: MATERIAL SPECIFICATIONS FOR WATER AND SANITARY SEWER ITEMS ARE PROVIDED IN THIS SECTION. ITEMS NOT INDICATED HERE SHALL BE IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE SPECIFICATIONS. MEASUREMENT AND PAYMENT FOR WATER AND SANITARY SEWER BID ITEMS SHALL BE IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

1. DUCTILE IRON WATER MAIN OR OFFSETS OF EXISTING MAINS SHALL CONFORM TO AWWA C150 AND C151. PIPE SHALL BE PRESSURE CLASS 350 FOR PIPE DIAMETERS 16" OR LESS AND SPECIAL THICKNESS CLASS 51 FOR PIPE DIAMETERS GREATER THAN 16" IN ACCORDANCE WITH AWWA C150 TABLE 50.15. FOR BURIAL DEPTHS EXCEEDING THOSE ALLOWED BY THE CLASS, PIPE AND FITTINGS OF SUFFICIENT WALL THICKNESS SHALL BE PROVIDED. PIPE OVER 12" INSIDE DIAMETER SHALL HAVE ONE PIECE OF GAUGED PIPE DELIVERED FOR EACH FITTING. GAUGED PIECES SHALL BE MARKED AS SUCH ON THE PIPE AND SHALL BE ACCOMPANIED BY THE MANUFACTURER'S CERTIFICATION. MANUFACTURER'S CERTIFICATION OF INSPECTION AND TESTING SHALL ACCOMPANY EACH DELIVERY. DUCTILE IRON FITTINGS SHALL CONFORM WITH AWWA C110 OR AWWA C153. COMPACT FITTINGS ARE REQUIRED, AND SHALL HAVE A MINIMUM ACCEPTABLE PRESSURE RATING SHALL OF 350 PSI. ALL FITTINGS SHALL BE MECHANICAL JOINT UNLESS NOTED OTHERWISE. DUCTILE IRON WATER MAIN PIPE SHALL BE AS MANUFACTURED BY:

   1. AMERICAN CAST IRON PIPE COMPANY
   2. U.S. PIPE AND FOUNDRY COMPANY
   3. GRIFFIN PIPE PRODUCTS

   A. JOINTS SHALL CONFORM TO AWWA C111 OR C115 AS APPLICABLE. THE MINIMUM ACCEPTABLE PRESSURE RATING FOR ALL JOINTS IS 250 PSI. ALL FLANGES AND GLANDS FOR PIPES SHALL BE MADE OF DUCTILE IRON. UNLESS NOTED OTHERWISE, USE PUSH-ON OR MECHANICAL JOINTS CONFORMING WITH ALL APPLICABLE PROVISIONS OF AWWA C111, OR RESTRAINED JOINT AS SPECIFIED BELOW. WHERE FLANGED JOINT PIPE OR FLANGED FITTINGS ARE REQUIRED FOR CONNECTIONS, VERIFY AND COORDINATE BOLT HOLE DRILLING WITH MANUFACTURER.

   MECHANICAL JOINT BOLTS SHALL BE U.S. STANDARD SIZE, HIGH STRENGTH, LOW ALLOY (HSLA) STEEL WITH HEXAGONAL NUTS.

   B. DEFLECTION: WHEN IT IS NECESSARY TO DEFLECT PIPELINES TO AVOID OBSTRUCTIONS, THE AMOUNT OF DEFLECTION SHALL NOT EXCEED 50% OF THAT RECOMMENDED BY THE PIPE MANUFACTURER. WHERE NECESSARY TO MAINTAIN THE REQUIRED LINE, SHORT SECTIONS OF PIPE OR FITTINGS SHALL BE PROVIDED. MECHANICAL JOINTS WITH METAL TIE RODS WILL BE PROHIBITED IN AREAS WHERE PIPE IS DEFLECTED.

   C. EXTERIOR COATING OF ALL DUCTILE IRON PIPE, JOINTS, AND FITTINGS SHALL BE PROVIDED AS REQUIRED BY AWWA C110, C111, C115, C151, OR C153 AS APPLICABLE. ALL PIPES, JOINTS, AND FITTINGS SHALL BE EXAMINED AFTER LAYING TO DETERMINE IF THE COATING HAS BEEN DAMAGED DURING INSTALLATION. ANY DAMAGED AREAS AND ALL JOINTS SHALL BE COATED WITH A MINIMUM OF 2 MIL OF AN APPROVED BITUMINOUS COATING.

   D. INTERIOR LINING FOR WATER MAINS SHALL BE SINGLE-THICKNESS CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104 INCLUDING ASPHALTIC SEAL.

   E. PIPE RESTRAINING LENGTH SHALL BE AS INDICATED ON THE PLANS. RESTRAINED PIPE SHALL MEET THE FOLLOWING CRITERIA:

      1. RESTRAINED JOINT PIPE:

      ALL RESTRAINED JOINT PIPE AND FITTINGS SHALL BE RESTRAINED AGAINST THRUST BY USING POSITIVE RESTRAINT SYSTEMS. RESTRAINED JOINT PIPE SHALL BE: U.S. PIPE TR-FLEX, AMERICAN CAST IRON PIPE FLEX-RING, OR GRIFFIN PIPE SNAP-LOK.

      2. MECHANICAL JOINT PIPE AND SLIP JOINT PIPE WITH RETAINER GLANDS:

      RETAINER GLAND SHALL BE U.L. LISTED AS MANUFACTURED BY: EBBA IRON, INC., SERIES 1100 "MEGALUG", FORD METER BOX COMPANY, INC. SERIES 1400 "UNI-FLANGE", SIGMA "ONE-LOK", OR U.S. PIPE AND FOUNDRY "M.J. GRIPPER". U.S. PIPE AND FOUNDRY "FIELD-LOK" GASKETS WILL BE ALLOWED FOR JOINT RESTRAINT ON STRAIGHT RUNS OF PIPE.

   F. CONNECTIONS: UNLESS OTHERWISE NOTED, CONNECTIONS TO EXISTING MAINS SHALL BE MADE USING M.J. SOLID SLEEVE FITTINGS. SLEEVES SHALL BE LONG PATTERN, SOLID TYPE MADE OF DUCTILE IRON WITH A MINIMUM PRESSURE RATING OF 250 PSI. SLEEVES SHALL BE MANUFACTURED BY THE DUCTILE IRON PIPE MANUFACTURER. THE CONTRACTOR IS REQUIRED TO VERIFY THE OUTSIDE DIAMETER OF THE EXISTING WATER MAINS AND COORDINATE REQUIRED MODIFICATIONS, IF ANY, TO THE SLEEVE AND GLAND (MACHINING AND OTHERWISE) WITH THE MANUFACTURER, AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

   G. BEDDING AND BACKFILL: IN ACCORDANCE WITH THE CITY OF SUFFOLK DETAIL ON SHEET 20(2B) UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

MATERIAL NOTES (CONTINUED)

   H. BENDS AND FITTINGS ARE SHOWN ON THE PLANS FOR DESIGN PURPOSES ONLY. IF ADDITIONAL BENDS (LESS THAN 16") ARE REQUIRED, THE PRICE FOR THESE BENDS SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WATER MAIN PAY ITEM.

   I. DUCTILE IRON PIPE FOR WATER MAINS AND SEWER MAINS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT. POLYETHYLENE ENCASEMENT SHALL BE CLASS B, SEAMLESS 4 MILS THICK HIGH DENSITY CROSS-LAMINATED FLAT TUBE POLYETHYLENE AND SHALL CONFORM TO ANSI/AWWA C105/A21.5. THE PRICE FOR THE POLYETHYLENE ENCASEMENT SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WATER MAIN/SEWER MAIN PAY ITEM.

2. CITY OF SUFFOLK VALVE BOX AND VALVE BOX SETTING SHALL BE IN ACCORDANCE WITH THE CITY OF SUFFOLK DETAIL ON SHEET 20(2A). VALVE BOX CASTINGS SHALL RECEIVE AN ASPHALTIC COATING.

3. GATE VALVES FOR WATER MAINS FROM 4" UP TO AND INCLUDING 12" IN DIAMETER SHALL CONFORM TO AWWA C509 LATEST REVISION. GATE VALVES SHALL BE RESILIENT SEATED, HAVING A RUBBER ENCAPSULATED IRON DISC, RATED FOR 200 PSI WORKING PRESSURE, EQUIPPED WITH 'O' RING SEALS AND MECHANICAL JOINTS, IRON BODY, AND SUITABLE FOR BURIED SERVICE. GATE VALVES SHALL BE VERTICAL, NUT-OPERATED, NON-RISING STEM TYPE. GATE VALVES SHALL BE:

   1. AMERICAN FLOW CONTROL
   2. KENNEDY VALVE COMPANY
   3. MUELLER COMPANY

   ALL GATE VALVES SHALL OPEN LEFT (COUNTER CLOCKWISE).

   ALL INTERIOR FERROUS SURFACES OF ALL VALVES SHALL BE COATED IN ACCORDANCE WITH ANSI/AWWA C550 USING A COATING APPROVED BY THE VIRGINIA DEPARTMENT OF HEALTH FOR CONTACT WITH POTABLE WATER AND SHALL NOT CONTAIN LEAD, COAL TAR RESINS, LAMPBLACK, CARBON BLACK, OR BITUMINOUS MATERIALS. THE EXTERIOR SURFACES SHALL RECEIVE A FACTORY APPLIED FUSION BONDED EPOXY COATING.

4. FIRE HYDRANTS SHALL BE APPROVED BY THE NATIONAL BOARD OF FIRE UNDERWRITERS, OF THE DRY BARREL TYPE, NON-FLOODING, TRAFFIC MODEL, FROST PROOF, COMPRESSION TYPE CONFORMING TO AWWA C502, LATEST REVISION. THE HYDRANT SHALL HAVE WASTE ORIFICES FOR DRAINING THE HYDRANT WHEN THE VALVE IS CLOSED. THE HYDRANT SHALL BE EQUIPPED WITH A BARREL SAFETY FLANGE AND A VALVE STEM SAFETY COUPLING SO THAT NEITHER THE BARREL NOR THE STEM WILL BREAK IF STRUCK BY A VEHICLE OR OTHER OBJECT. THE HYDRANTS SHALL BE DESIGNED FOR 150 PSI WORKING PRESSURE AND 300 PSI TEST PRESSURE. THE MAIN VALVE SHALL BE REMOVEABLE FROM ABOVE GROUND.

   FIRE HYDRANTS SHALL HAVE SIX INCH MECHANICAL JOINT INLET AND MAIN VALVE OPENING OF 4-1/2 INCHES. HYDRANTS SHALL BE EQUIPPED WITH TWO 2-1/2 INCH HOSE CONNECTIONS AND ONE 4-1/2 INCH PUMPER CONNECTION WITH NATIONAL STANDARD THREADS. HOSE NIPPLES SHALL BE BRONZE OR NON-CORROSIVE METAL AND THE NIPPLE CAPS SHALL BE SECURELY CHAINED TO THE BARREL. THE DIRECTION OF OPENING SHALL BE LEFT (COUNTER CLOCKWISE) AND SHALL BE CAST ON THE HEAD OF THE HYDRANT. THE HYDRANT SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER AND TWO FINISH COATS OF A PAINT, ALUMINUM IN COLOR.

   FIRE HYDRANT CONNECTIONS SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2).

   A. HYDRANT SHALL BE SET UPON A BED OF NO. 57 STONE NOT LESS THAN 8" THICK AND 18" SQUARE. HYDRANT DRAINS SHALL OPEN FREELY INTO THIS STONE BED (CONCRETE BLOCK NOT REQUIRED).

   B. HYDRANTS SHALL BE SET WITH THE BOTTOM OF THE PUMPER CONNECTION 18" ABOVE FINISHED GRADE.

   FIRE HYDRANTS SHALL BE:

      1. AMERICAN FLOW CONTROL MK-73-1
      2. MUELLER SUPER CENTURION 200
      3. KENNEDY GUARDIAN K-81-D.

NANSEMOND 1646 · SUFFOLK 1742 · 19 74 · CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY NOTES

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY JLM
M. VELASQUEZ	DESIGNED BY ERM
DATE 5/10/19	APPROVED BY DMP

SHEET NO. 20(1A)

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MATERIAL NOTES (CONTINUED)

5. OFFSET EXISTING PIPE SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2B).

6. 2" AIR RELEASE VALVE & BOX FOR CITY OF SUFFOLK FACILITIES SHALL BE IN ACCORDANCE WITH THE CITY OF SUFFOLK DETAIL ON SHEET 20(2A).

7. WATER SERVICE LINES 2" AND SMALLER SHALL BE TYPE "K SOFT" COPPER TUBING, MANUFACTURED IN ACCORDANCE WITH AWWA C800, LATEST REVISION. EXISTING WATER SERVICE LINES TO BE REMOVED SHALL BE TAKEN OUT OF SERVICE BY SHUTTING OFF AND CAPPING THE CORPORATION STOP AT THE WATER MAIN. TAPS SHALL NOT BE MADE WITHIN 12" OF JOINTS.

   CORPORATION STOPS SHALL CONFORM TO AWWA C800, LATEST REVISION, HAVE AWWA TAPER THREAD INLET AND COMPRESSION CONNECTION OUTLET. CORPORATION STOPS SHALL BE AS MANUFACTURED BY MUELLER COMPANY, A.Y. MCDONALD COMPANY, OR FORD METER BOX COMPANY.

   COPPER SETTERS SHALL HAVE CUT OFF VALVES OF SUFFICIENT SIZE WITH COMPRESSION OR FLARED CONNECTIONS. COPPER SETTERS SHALL BE AS MANUFACTURED BY MUELLER COMPANY, A.Y. MCDONALD COMPANY, OR FORD METER BOX COMPANY. A BACKFLOW PREVENTER SHALL BE PROVIDED ON EACH COPPER SETTER.

   WATER METERS SHALL CONFORM TO AWWA C700, LATEST REVISION AND INDICATE WATER CONSUMPTION IN CUBIC FEET. WATER METERS SHALL HAVE STRAIGHT READING DIALS AND SHALL BE COMPLETELY ENCASED, HERMETICALLY SEALED, AND OF A FROST-PROTECTIVE DESIGN. EACH METER SHALL HAVE AN ARROW ON IT TO INDICATE FLOW DIRECTION. WATER METER SHALL BE A 5/8" X 3/4" SENSUS IPERL. ENCODER AND REGISTER SHALL CONFORM TO AWWA C707, LATEST REVISION.

   WATER METER BOXES SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2).

   A. WATER METER BOXES SHALL HAVE A PRE-CUT HOLE (1-3/4" DIAMETER) FOR THE TOUCH READ PIT LID METER.

   B. THE TOP OF THE METER BOX SHALL EXTEND 1/2" ABOVE FINISHED GRADE.

8. PVC PIPE FOR GRAVITY SANITARY SEWER SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D3034 AND SHALL MEET THE REQUIREMENTS FOR SDR26. JOINTS SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH A SOLID CROSS SECTION RUBBER GASKET CONFORMING TO ASTM F477. MINIMUM "PIPE STIFFNESS" (F/Y) AT 5 PERCENT DEFLECTION SHALL BE 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D-2412. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 5 PERCENT AFTER BACKFILL HAS REACHED 95 PERCENT COMPACTION.

   PVC PIPE SHALL BE INSTALLED WITH CONTINUOUS, 10 GAUGE, PLASTIC-COATED, SOLID COPPER TRACER WIRE, ATTACHED EVERY 10 FEET TO THE PIPING SYSTEM. THE WIRE SHALL TERMINATE ABOVE GROUND AT EVERY MANHOLE. THE WIRE SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE WIRE TO BE UNCOILED AND EXTENDED ONE FOOT ABOVE THE FINISHED GRADE. TRACER WIRE SHALL BE CONSIDERED COMPLETE AND ACCEPTABLE FOR SERVICE IF THE OWNER CAN TRACE THE WIRE USING LOCATING EQUIPMENT. THE COST FOR TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST BID FOR PVC GRAVITY SEWER MAIN.

   PVC PIPE SHALL BE INSTALLED WITH SUBSURFACE UTILITY WARNING TAPE. THE WARNING TAPE SHALL BE OF A DURABLE, METALIZED, PLASTIC FILM FOR IDENTIFICATION OF SEWER MAINS. BRIGHT GREEN TAPE IMPRINTED WITH THE LEGEND "CAUTION - SEWER BELOW" SHALL BE USED AS APPROPRIATE. SUBSURFACE UTILITY WARNING TAPE SHALL BE PLACED AT AN ELEVATION NOT LESS THAN 6-INCHES, NOR MORE THAN 12-INCHES BELOW THE PROPOSED FINISHED GRADE, OR DIRECTLY UNDER THE ROADWAY BASE MATERIAL IF THE BASE MATERIAL IS GREATER THAN 12-INCHES. THE COST FOR SUBSURFACE UTILITY WARNING TAPE SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST BID FOR PVC GRAVITY SEWER MAIN.

9. ADJUST EXISTING SANITARY SEWER MANHOLE FRAME & COVER, SEWER CLEANOUTS, WATER METER BOXES, VALVE BOXES, AND FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 510 AND 520 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS. FRAME AND COVER SHALL BE SET FLUSH WITH THE PROPOSED GRADE INCLUDING CROSS SLOPES OF PAVEMENTS. ADJUSTMENT OF SANITARY SEWER LATERALS SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2A).

10. PRECAST CONCRETE MANHOLES SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2B). PRECAST CONCRETE MANHOLES SHALL BE OF THE EXTENDED BASE TYPE. THE WALLS OF THE MANHOLES SHALL HAVE A MINIMUM THICKNESS OF 5 INCHES AND BE CONSTRUCTED OF CLASS A4 REINFORCED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C-478. MANHOLE SECTIONS SHALL BE TONGUE AND GROOVE AND SHALL BE JOINED WITH BUTYL RESIN JOINT SEALER.

    THE LOWEST MANHOLE SECTION SHALL BE PLACED IN THE PRECAST BASE SLAB IN SUCH A MANNER TO PROVIDE THE GREATEST AMOUNT OF BOND AND PREVENT INFILTRATION AND EXFILTRATION. INSERT HOLES FOR THE REQUIRED
    SEWERS SHALL BE MADE IN THE MANHOLE SECTIONS DURING THE MANUFACTURING OPERATION AND SHALL INCLUDE FLEXIBLE CONNECTIONS COMPRISED OF RUBBER BOOTS AND STAINLESS STEEL STRAPS, SIMILAR TO KOR-
    N-SEAL OR INTERPACE.

    THE MANHOLE INVERT ELEVATIONS SHALL BE SHAPED AND FINISHED DURING THE CONSTRUCTION OF THE BOTTOM SLAB IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2B).

    ALL LIFTING HOLES SHALL BE FILLED FLUSH WITH AN APPROVED MORTAR UPON COMPLETION OF SETTING. STANDARD MANHOLE STEPS SHALL BE POLYPROPYLENE COATED SMOOTH STEEL ROD, AND SHALL BE SECURELY PLACED IN POSITION IN THE MANHOLE SECTIONS DURING THE MANUFACTURING OF THE SECTION. THE UPPERMOST SECTION OF THE PRECAST MANHOLE SHALL BE TAPERED TO A MINIMUM INTERIOR DIAMETER OF 24 INCHES. THE INSIDE DIAMETER OF THE MANHOLE SHALL BE NOT LESS THAN 48 INCHES. THE INTERMEDIATE STRAIGHT SECTIONS SHALL BE EITHER THREE OR FOUR FEET IN LENGTH. THE LENGTH OF THE LOWER SECTIONS SHALL BE THREE TIMES THE WALL SECTION, AND IN NO CASE SHALL IT BE LESS THAN TWO FEET. THE BOTTOM SECTION SHALL BE PLACED ON A MINIMUM OF 6 INCHES OF GRAVEL, AS SHOWN ON DETAIL ON SHEET 20(2B).

    INTERIOR WALLS OF MANHOLE SHALL BE COATED WITH SAUEREISEN SEWERGARD NO. 210 OR NO 210RS, SEWPERCOAT HS 2000 REGULAR,PERMACAST MS-10,000. MANHOLE LINER SHALL BE APPLIED TO A MINIMUM THICKNESS OF 1/2 INCH.

11. MANHOLE FRAMES AND COVERS SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 20(2B). FRAMES AND COVERS SHALL BE DEWEY BROTHERS MODEL B-1800 OR CAPITAL FOUNDRY C21. ALL FRAMES SHALL BE SECURELY ANCHORED TO THE RELATED STRUCTURES AND SHALL BE INSTALLED SO THAT THE COVER SHALL BE EXPOSED AND FLUSH WITH THE STREET SURFACE WITHOUT THE USE OF RISER RINGS (APPLICABLE FOR NEW FACILITIES ONLY). THE FRAME AND COVER OF MANHOLES OR CLEAN OUTS LOCATED IN SODDED OR OTHER OFF -STREET AREAS SHALL BE SO INSTALLED THAT THE COVERS SHALL BE EXPOSED AND EITHER FLUSH OR ABOVE THE IMMEDIATE SURFACE AS DEEMED ADVISABLE BY THE ENGINEER.

SUGGESTED GENERAL SEQUENCE OF CONSTRUCTION

EXECUTE THE FOLLOWING INSTALLATIONS IN THE SEQUENCE INDICATED. PROCEDURE FOR ACCOMPLISHING EACH INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL MATERIAL, EQUIPMENT, LABOR AND APPURTENANCES (INCLUDING TEMPORARY PLUGS, COUPLINGS, ETC.) REQUIRED TO ACCOMPLISH INSTALLATIONS IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION SHALL BE INCLUDED IN THE BID COST FOR THE ASSOCIATED PAY ITEM. AN ALTERNATE SEQUENCE MAY BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER FOR APPROVAL. THE ENTIRE LENGTH OF MAIN LINE UTILITY ADJUSTMENTS SHALL BE CONSTRUCTED, TESTED, AND DISINFECTED AS REQUIRED BY SPECIFICATIONS PRIOR TO CONNECTION WITHOUT INTERRUPTION TO ANY EXISTING SERVICE. CONNECTION PIPING SHALL BE TESTED AND DISINFECTED AS REQUIRED BY THE SPECIFICATIONS.

LANE CLOSURES AND STOPPAGES OF TRAFFIC SHALL BE IN ACCORDANCE WITH MAINTENANCE OF TRAFFIC SHEET AND SEQUENCE OF CONSTRUCTION SHEETS.

RESTRAINT OF ALL EXISTING PIPE SHALL BE PERFORMED TO THE EXTENT POSSIBLE PRIOR TO ANY OUTAGE OF UTILITY SERVICE.

OFFSETS AND OTHER ADJUSTMENTS SHALL BE PRE -FABRICATED TO THE EXTENT POSSIBLE PRIOR TO THE OUTAGE.

THE DEFINITION OF TERMS USED IN THE SEQUENCE OF CONSTRUCTION ARE AS FOLLOWS:

SHUTDOWN - SHUTDOWN OF EXISTING WATER OR SEWER FACILITIES SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND LIMITED TO THE DAYS AND HOURS INDICATED BELOW, EXCLUSIVE OF CITY HOLIDAYS AND WEEKENDS. UNLESS INDICATED OTHERWISE, SHUTDOWNS SHALL BE PERMITTED WITHIN THE FOLLOWING SPECIFIED TIME FRAMES.

SUFFOLK WATER AND SEWER FORCE MAINS: 11:00 P.M. TO 5:00 A.M. (MONDAY THROUGH THURSDAY NIGHTS).

GRAVITY SEWER: NO SHUTDOWN ALLOWED.

INSTALL - ALL EFFORTS REQUIRED TO EXCAVATE, ASSEMBLE AND PLACE PIPE AND BACKFILL IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. ALL INSTALLATIONS SHALL BE TESTED, CHLORINATED AND/OR DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS STATED ABOVE.

CONNECTIONS - PIPE ASSEMBLIES, SLEEVES, FITTINGS, VALVES, TEMPORARY AND/OR PERMANENT PLUGS AND COUPLINGS AS INDICATED ON THE PLANS OR AS REQUIRED TO ACHIEVE SEQUENCE OF CONSTRUCTION AT LOCATIONS WHERE PROPOSED WORK MEETS EXISTING FACILITIES.

ACTIVATE - UPON COMPLETION OF INSTALLATION, TESTING AND THE OWNER'S APPROVAL IN ACCORDANCE WITH PLANS AND SPECIFICATIONS, PLACE THE FACILITY INTO OPERATION.

TIME INDIVIDUAL SERVICES MAY BE TAKEN OUT OF OPERATION FOR TRANSFER OF SERVICE:

TRANSFER OF INDIVIDUAL SERVICES SHALL BE LIMITED TO TWO CONSECUTIVE HOURS AND SHALL BE PERFORMED DURING DAYTIME HOURS. THE CONTRACTOR SHALL NOTIFY THE CITY OF SUFFOLK DEPARTMENT OF PUBLIC UTILITIES AND AFFECTED CUSTOMERS 48 HOURS PRIOR TO INDIVIDUAL SERVICE TRANSFERS.

SEQUENCE

A. TYPICAL SEQUENCE FOR RELOCATIONS.

1. RESTRAIN EXISTING PIPE TO THE EXTENT POSSIBLE.
2. INSTALL UTILITY AROUND FUTURE OBSTRUCTION LOCATION ADJACENT TO CONNECTION POINTS.
3. SHUT DOWN EXISTING UTILITY SERVICE.
4. REMOVE EXISTING UTILITY AS REQUIRED TO ACCOMMODATE CONNECTIONS. MAKE CONNECTIONS TO EXISTING UTILITY. ONE SHUT DOWN PERMITTED.
5. ACTIVATE EXISTING UTILITY.
6. ABANDON OR REMOVE EXISTING UTILITY, AS REQUIRED.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 UTILITY NOTES	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19 DRAWN BY JLM DESIGNED BY ERM APPROVED BY DMP	SHEET NO. 20(1B)

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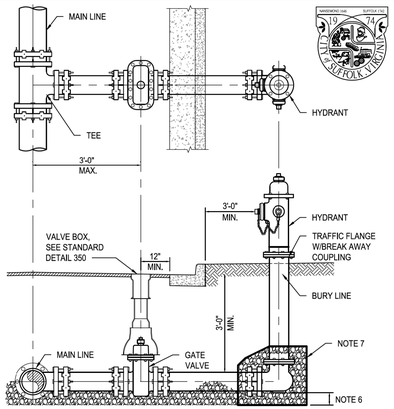
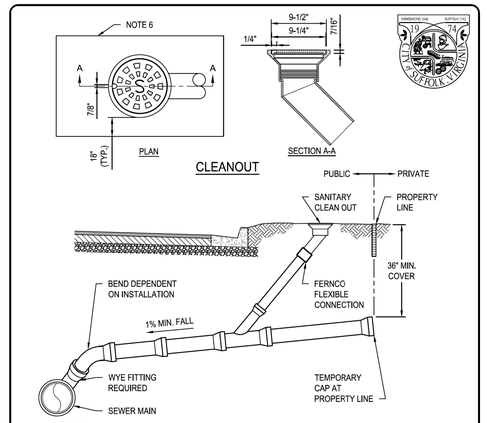


NOTES:
1. ALL HYDRANT CONNECTIONS SHALL BE INSPECTED BY THE DEPARTMENT OF PUBLIC UTILITIES PRIOR TO BACKFILLING.
2. ALL HYDRANT BRANCH LINE PIPE SHALL BE 6-INCH MINIMUM THICKNESS CLASS 50 DUCTILE IRON RESTRAINED JOINT FULL LENGTH UNLESS DESIGN CALCULATIONS DICTATE OTHERWISE AS APPROVED BY DPU.
3. ALL PIPE AND FITTINGS WITHIN 10 FEET OF A MAIN LINE, VALVE OR HYDRANT SHALL BE RESTRAINED MECHANICAL JOINT.
4. PUMPER NOZZLE SHALL FACE ROADWAY UNLESS OTHERWISE SPECIFIED.
5. BRANCH LINE, TEE, GATE VALVE, AND HYDRANT INLET CONNECTION SHALL BE 6-INCH.
6. 6-INCH MIN. COMPACTED VDOT #57 STONE BEDDING UNDER PIPE AND UP TO SPRING LINE.
7. MINIMUM 1 CU. FT. VDOT #57 STONE, WRAP IN FILTER FABRIC.
8. VALVE BOX SHALL NOT BE SET IN CONCRETE GUTTER.

TYPICAL FIRE HYDRANT CONNECTION (MAIN LINE IN PAVED AREA)

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	WATER	1 of 1	151-2



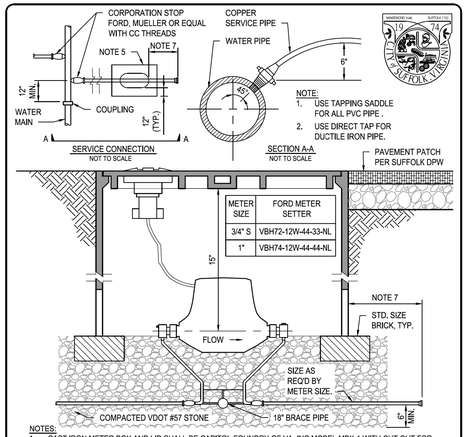
CLEANOUT

NOTES:
1. SINGLE CLEAN OUT (CAPITOL FOUNDRY ITEM # 110T-CO OR EQUAL) WITH LID MARKED "S" AND PLASTIC THREADED PLUG. CLEAN OUT CASTING TO BE CONNECTED TO 4" RISER PIPE WITH FERNCO FLEXIBLE COUPLING OR APPROVED EQUAL.
2. LATERAL SHALL BE ORIENTED AT 90° TO THE SEWER MAIN.
3. PIPE SIZE FOR COMMERCIAL SERVICE LATERALS SHALL BE DETERMINED BY FLOW CALCULATIONS AND APPROVED BY DPU (TYPICALLY 6" DIAMETER).
4. CLEAN OUT SHALL BE LOCATED IN RIGHT-OF-WAY, 1'-0" FROM PROPERTY LINE, OBSTRUCTIONS OR CONFLICTS WILL BE EVALUATED BY CITY ON A CASE BY CASE BASIS.
5. LATERAL MATERIAL SHALL MATCH SEWER MAIN, UNLESS DIRECTED OTHERWISE BY DPU.
6. WHEN CLEANOUT IS LOCATED WITHIN DRIVEWAY, PROVIDE AN ISOLATION JOINT USING 1/2-INCH PREMOLDED JOINT FILLER 18" AROUND OUTSIDE DIAMETER OF CLEANOUT TO FACILITATE FUTURE MAINTENANCE.

SANITARY LATERAL

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	SANITARY	1 of 1	262



METER SIZE	FORD METER SETTER
3/4" S	VBH72-12W-44-33-NL
1"	VBH74-12W-44-44-NL

NOTES:
1. CAST IRON METER BOX AND LID SHALL BE CAPITOL FOUNDRY OF VA. INC MODEL MBX-1 WITH CUT OUT FOR SENSUS TOUCH READ SYSTEM PIT-LID MODULE. METER SHALL BE SENSUS iPERL TOUCH READ.
2. PROVIDE MUELLER DR2S OR APPROVED EQUAL SADDLES FOR CORPORATION STOPS IN PVC PIPE.
3. CAST IRON METER BOX AND LID NOT TO BE USED IN COMMERCIAL / INDUSTRIAL TRAFFIC AREAS.
4. PROVIDE 1" DIAMETER BRACE PIPE 18" LONG.
5. WHEN WATER METER IS LOCATED WITHIN DRIVEWAY, PROVIDE AN ISOLATION JOINT USING 1/2-INCH PREMOLDED JOINT FILLER 12" AROUND OUTSIDE DIAMETER OF METER BOX TO FACILITATE FUTURE MAINTENANCE.
6. WHEN WATER METER IS LOCATED IN PAVEMENT AND SUBJECTED TO HIGH DENSITY TRAFFIC, PROVIDE A METER BOX AND COVER SUITABLE FOR HS-20 (HS-20-44) LIVE LOADS.
7. EXTEND COPPER SERVICE PIPE 18" BEYOND METER BOX AND PROVIDE A TEMPORARY CAP ON END OF SERVICE PIPE. CONNECTION FITTING IS THE RESPONSIBILITY OF THE CUSTOMER.

3/4"- 1" WATER METER INSTALLATION DETAIL

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	WATER	1 of 1	153

STORM DRAIN STRUCTURE DATA

In Pl SDMH #100
Rim = 18.43
Inv. In = 12.77

In Pl CDI #101
Rim = 17.18
Inv. In = 11.49
Inv. Out = 11.46

In Pl CDI #102
Rim = 15.81
Inv. In = 10.75
Inv. Out = 10.41

In Pl DI #103
Rim = 16.04
Inv. In = 9.69
Inv. Out = 9.68

In Pl CDI #104
Rim = 17.79
Inv. In = 14.50

In Pl SDMH #105
Rim = 17.71
Inv. In = 14.31
Inv. Out = 14.30

In Pl DI #106
Rim = 17.03
Inv. In = 13.66
Inv. Out = 13.64

In Pl DI #107
Rim = 17.55
Inv. In = 14.34
Inv. Out = 14.32

In Pl SDMH #108
Rim = 18.22
Inv. In = 14.66
Inv. Out = 14.61

In Pl DI #108A
Rim = 18.06
Bottom = 15.58

In Pl DI #109
Rim = 18.88
Inv. In = 15.07
Inv. Out = 15.06

In Pl DI #110
Rim = 19.35
Inv. In = 15.35

In Pl DI #111
Rim = 17.05
Inv. In = 12.95
Inv. In = 12.80
Inv. Out = 12.75

In Pl DI #112
Rim = 17.39
Inv. In = 12.94
Inv. Out = 12.90

In Pl DI #113
Rim = 18.58
Inv. In = 16.83

In Pl_CDI #114
Rim = 11.29
Inv. In = 7.51

In Pl_DI #115
Rim = 9.52
Inv. In = 4.89
Inv. Out = 4.74

In Pl_DI #116
Rim = 10.50
Inv. In = 7.37
Inv. In = 7.34
Inv. Out = 7.32

In Pl_CDI #117
Rim = 11.51
Inv. In = 8.64

In Pl_SDMH #118
Rim = 13.88
Inv. In = 11.05
Inv. Out = 10.99

In Pl_CDI #119
Rim = 13.96
Inv. In = 11.11
Inv. Out = 11.01

In Pl_CDI #120
Rim = 16.18
Inv. In = 11.67
Inv. Out = 11.64

In Pl_CDI #121
Rim = 17.18
Inv. In = 11.88
Inv. Out = 11.87

In Pl_CDI #122
Rim = 17.38
Inv. In = 13.23

In Pl_CDI #123
Rim = 16.83
Inv. In = 13.00
Inv. Out = 12.74

In Pl_CDI #124
Rim = 19.02
Inv. In = 12.91
Inv. Out = 12.97

In Pl_CDI #125
Rim = 19.19
Inv. In = 13.19

In Pl_CDI #126
Rim = 19.32
Inv. In = 12.69
Inv. Out = 12.61

In Pl_CDI #127
Rim = 19.01
Inv. In = 12.39

In Pl_ CDI #128
Rim = 20.28
Inv. In = 16.12

In Pl_ DI #129
Rim = 21.46
Inv. In = 15.82
Inv. Out = 15.69

In Pl_ DI #130
Rim = 21.18
Inv. In = 15.45
Inv. Out = 15.43

In Pl_ CDI #131
Rim = 22.08
Inv. In = 14.36
Inv. Out = 14.29

In Pl_ CDI #132
Rim = 20.74
Inv. In = 15.25
Inv. Out = 15.22

In Pl_ CDI #133
Rim = 19.81
Inv. In = 15.12
Inv. Out = 15.06

In Pl_ CDI #134
Rim = 17.97
Inv. In = 14.59
Inv. In = 14.59
Inv. Out = 15.55

In Pl_ CDI #135
Rim = 18.10
Inv. In = 14.83
Inv. In = 14.83
Inv. Out = 14.71

In Pl_ CDI #136
Rim = 20.28
Inv. In = 18.08
Inv. Out = 17.99

In Pl_ CDI #137
Rim = 21.86
Inv. In = 18.20

In Pl_ CDI #138
Rim = 16.90
Inv. In = 13.68
Inv.Out = 13.57

In Pl_CDI #139
Rim = 11.63
Inv. In = 8.78
Inv. In = 8.53
Inv. Out = 8.42

In Pl CDI #140
Rim = 10.14
Inv. In = 5.69
Inv. Out = 5.44

In Pl_DI #141
Rim = 10.44
Inv. In = 6.19

In Pl SDMH #142
Rim = 10.40
Inv. In = 6.15
Inv. In = 6.10
Inv. Out = 6.03

In Pl CDI #143
Rim = 9.82
Inv. In = 6.46

In Pl SDMH #144
Rim = 10.19
Inv. In = 5.35
Inv. In = 5.27
Inv. Out = 5.17

In Pl DI #145
Rim = 6.81
Inv. In = 4.66

In Pl SDMH #146
Rim = 10.04
Inv. In = -1.59
Inv. Out = -1.93

In Pl SDMH #147
Rim = 10.24
Inv. In = 5.19
Inv. Out = 5.12

In Pl_CDI #148
Rim = 19.99
Inv. In = 16.20
Inv. Out = 16.15

In Pl_CDI #149
Rim = 19.57
Inv. In = 16.00
Inv. Out = 15.98

In Pl_CDI #150
Rim = 20.25
Inv. In = 16.81
Inv. Out = 16.78

In Pl_CDI #151
Rim = 20.25
Inv. In = 17.28

In Pl_CDI #152
Rim = 20.31
Inv. In = 18.11

In Pl_DI #153
Rim = 8.64
Inv. In = -0.61
Inv. Out = -1.52

In Pl_DI #154
Rim = 20.99
Inv. In = 16.30
Inv. Out = 16.30

In Pl_DI #155
Rim = 119.49
Inv. In = 16.39

In Pl_DI #156
Rim = 21.75
Inv. In = 14.53
Inv. In = 14.45
Inv. Out = 14.35

In Pl_CDI #159
Rim = 12.23
Inv. In = 8.98
Inv. Out = 8.97

In Pl_DI #160
Rim = 12.85
Inv. In = 10.13

In Pl_CDI #161
Rim = 10.94
Inv. In = 8.36
Inv. Out = 8.27

In Pl.CDI #500
Rim = 18.53
Inv. Out = 14.43

In Pl.CDI #501
Rim = 19.34
Inv.In = 14.07
Inv. Out = 14.03

In Pl.DI #71675
Rim = 16.60
Btm = 13.93

In Pl.DI #71676
Rim = 16.58
Btm = 13.90

In Pl.DI #71677
Rim = 16.59
Btm = 13.94

In Pl.DI #71678
Rim = 16.59
Btm = 13.92

In Pl.DI #72170
Rim = 14.27
Inv In = 10.99

In Pl.DI #72175
Rim = 16.60
Btm = 13.93

In Pl.DI #72176
Rim = 15.23
Inv In = 11.03

In Pl. DI #1004
Rim = 21.46
Inv. In = 17.86(E)
Inv. In = 17.86(W)
Inv. Out = 17.81(N)

In Pl. DI #1005
Rim = 20.13
Inv. In = 18.40(E)

In Pl. DI #1006
Rim = 19.88
Inv. In = 17.03(S)
Inv. Out = 16.93(N)

In Pl. DI #1009
Rim = 22.03
Inv. In = 18.73(E)

DI #1015
Rim = 17.52
Inv. In = 14.76(NW)
Inv. Out = 14.72(E)

DI #1016
Rim = 15.11
Inv. In = 12.26(W)
Inv. Out = 12.26(E)

SANITARY SEWER STRUCTURE DATA

In Pl. SMH #200
Rim = 20.75
Inv In = 10.54

In Pl. SMH #201
Rim = 20.86
Inv. In = 12.54
Inv. In = 9.75
INv.Out = 9.73

In Pl. SMH #202
Rim = 14.46
Inv. In = 7.84

In Pl. SMH #203
Rim = 17.04
Inv. In = 7.57
Inv.Out = 7.49

In Pl. SMH #204
Rim = 19.34
Inv. In = 6.95
Inv.Out = 6.93
Top of Pipe = 5.29 (6"DIP)

In Pl. SMH #205
Rim = 17.27
Inv. In = 5.82
Inv.Out = 5.72

In Pl. SMH #206
Rim = 19.71
Inv. In = 10.52
Inv. In = 4.98
Inv.Out = 4.96

In Pl. SMH #207
Rim = 21.15
Inv. In = 4.18
Inv.Out = 4.03

In Pl. SMH #208
Rim = 20.70
Inv. In = 3.78
Inv.Out = 3.49

In Pl. SMH #210
Rim = 22.33
Inv In = 11.51
Inv In = 0.42
Inv Out = 0.40

In Pl. SMH #211
Rim = 21.72
Inv. In = 12.99
Inv. In = 0.95
Inv.Out = 0.84

In Pl. SMH #212
Rim = 20.24
Inv In = 1.91
Inv In = 1.89
Inv Out = 1.88

In Pl. SMH #213
Rim = 18.25
Inv In = 2.85
Inv In = 2.80
Inv Out = 2.70

In Pl. SMH #214
Rim = 18.38
Inv In = 14.12
Inv In = 4.42
Inv Out = 3.05

In Pl. SMH #215
Rim = 20.85
Inv In = 16.92
Inv Out = 16.84

In Pl. SMH #216
Rim = 19.62
Inv In = 13.81
Inv In = 2.37
Inv In = 2.31
Inv Out = 2.31

In Pl. SMH #217
Rim = 20.76
Inv In = 2.75
Inv Out = 2.71

In Pl. SMH #218
Rim = 23.08
Inv In = 17.50
Inv Out = 17.45

In Pl. SMH #219
Rim = 23.09
Inv In = 17.51
Inv Out = 17.46

In Pl. SMH #220
Rim = 20.36
Inv In = 2.92
Inv Out = 2.86

In Pl. SMH #221
Rim = 15.51
Inv In = 3.49
Inv Out = 3.46

In Pl. SMH #222
Rim = 14.65
Inv In = 3.65
Inv Out = 3.63

In Pl. SMH #223
Rim = 12.65
Inv In = 4.32
Inv Out = 4.27

In Pl.SMH #71673
Rim = 16.34
Inv In = 15.05
Inv Out = 13.14
(4'+/- Debris)

In Pl.SMH #71674
Rim = 16.10
Inv Out = 13.15
(4'+/- Debris)

In Pl.SMH #71675
Rim = 17.36
Inv In = 12.46
Inv Out = 11.66

In Pl.SMH #1007
Rim = 22.28
Inv. In = 8.04(W)
Inv. Out = 7.94(E)

In Pl.SMH #1008
Rim = 22.51
Inv. In = 9.31(S)
Inv. In = 7.58(E)
Inv. Out = 7.52(W)

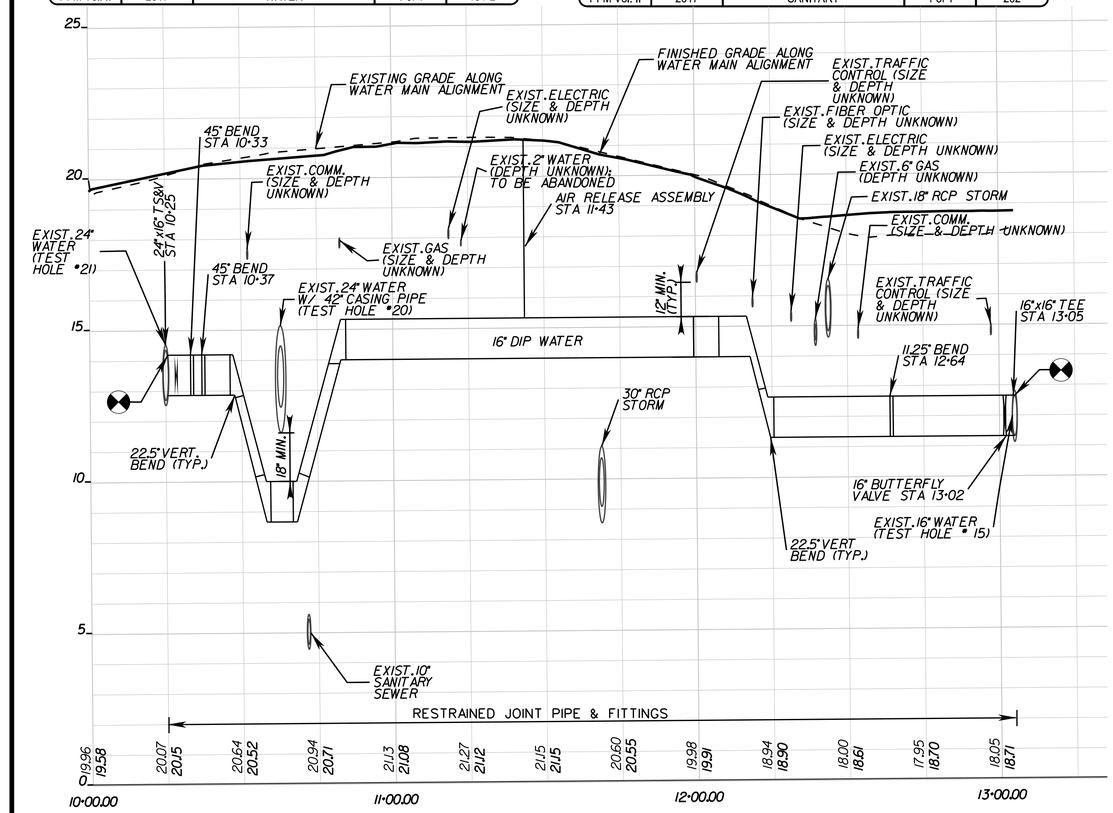
In Pl.SMH #1010
Rim = 22.97
Inv. In = 6.54(W)
Inv. Out = 6.49(E)

In Pl.SMH #1011
Rim = 21.99
Inv. In = 5.77(N)
Inv. In = 5.70(W)
Inv. Out = 5.56(E)

In Pl.SMH #1013
Rim = 19.95
Inv. In = 5.27(W)
Inv. Out = 5.21(S)

In Pl.SMH #1014
Rim = 21.70
Inv. In = 4.56(N)
Inv. Out = 4.51(S)

In Pl.SMH #1019
Rim = 21.47
Inv In = 9.92



PROFILE – 16" DIP WATER MAIN

SCALE: HORIZ:1" = 25', VERT:1" = 2.5'

NOTE: DEPTHS OF EXIST.UTILITIES SUCH AS GAS,WATER,TELECOMMUNICATION,ELECTRICAL,ETC. ARE ASSUMED BASED ON INDUSTRY STANDARD DEPTHS OR PLAN INFORMATION,EXCEPT WHERE TEST HOLE HAVE BEEN CONDUCTED.VERIFY THE ELEVATION,MATERIAL AND DIAMETER OF EXIST. UTILITY LINES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.IMMEDIATELY CONTACT ENGINEER IF EXIST.UTILITIES CONFLICT WITH WORK SHOWN.

SCALE 0 25' 50'

SCALE 0 2.5' 5'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY DETAILS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	JLM
M. VELASQUEZ	DESIGNED BY	ERM
DATE 5/10/19	APPROVED BY	DMP

SHEET NO. 20(2)

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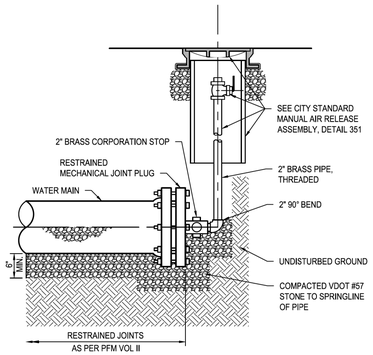
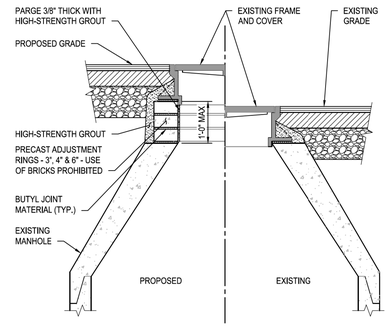


NOTE:
1. FOR PVC PIPING USE MECHANICALLY RESTRAINED CAP.

PIPE TERMINATION AND BLOW-OFF

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	WATER	1 of 1	150



NOTE: PROVIDE HDPE TAPERED ADJUSTMENT RINGS OR EQUAL WHERE GRADE DICTATES.

MANHOLE RIM ADJUSTMENT

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
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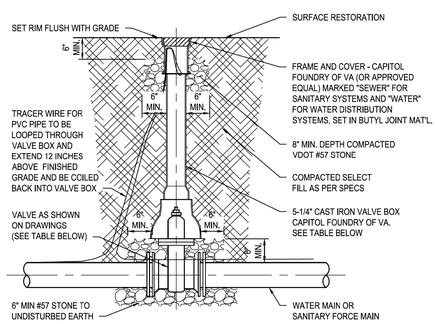
NOTES:
1. PROVIDE MIDDLE SECTION TO EXTEND FOR DEEP BOXES.
2. ADJUST BOX TOP FOR STREET PAVEMENT OVERLAY, IF OVERLAY IS PERFORMED.
3. VALVES SHALL OPEN TURNING TO THE LEFT.
4. FOR DEEP APPLICATIONS USE PVC PIPE EXTENSION (WITH BELL BELOW VALVE BOX).



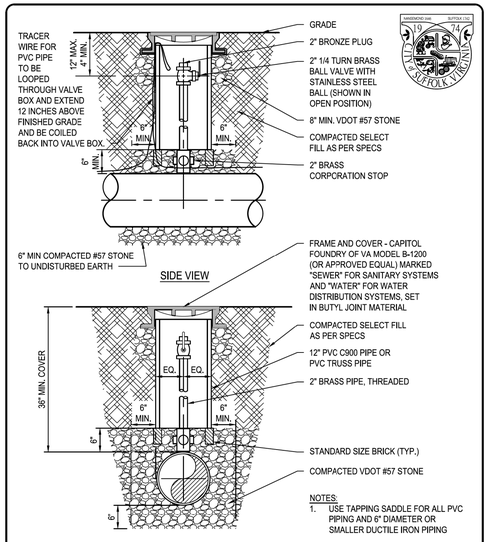
VALVE GUIDE		
APPLICATION	SIZE AND TYPE	
	2" - 12"	> 12"
SANITARY	GATE	GATE
WATER	GATE	BUTTERFLY

VALVE BOX GUIDE			
MODEL #	BOX COMPLETE EXTENSION	TOP SECTION LENGTHS	BOTTOM SECTION LENGTHS
461A	19" - 22"	10"	15"
562A	27" - 37"	16"	24"
564A	39" - 50"	16"	36"
664A	39" - 60"	26"	36"
LONGER BOXES MADE BY ADDING EXTENSION TO MODEL # 664A			

VALVE BOX

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	WATER AND SANITARY	1 of 1	350



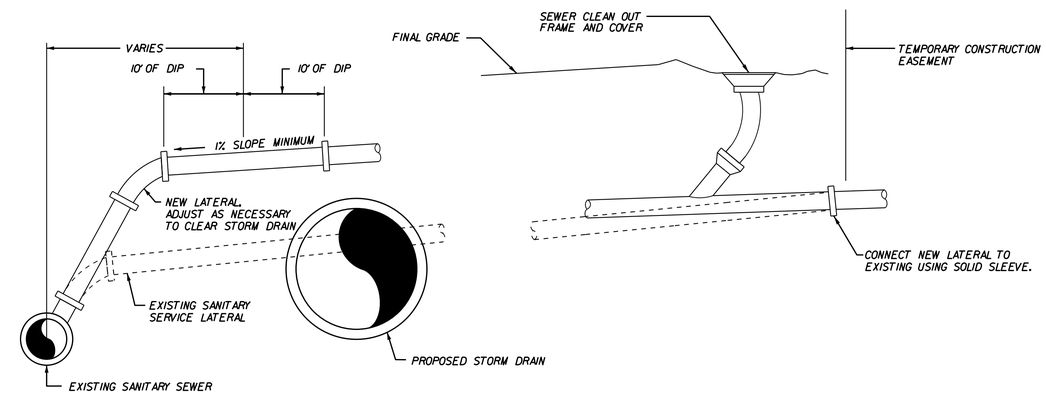
NOTES:
1. USE TAPPING SADDLE FOR ALL PVC PIPING AND 6" DIAMETER OR SMALLER DUCTILE IRON PIPING
2. USE DIRECT TAP FOR 8-INCH OR LARGER DUCTILE IRON PIPE.

SECTION VIEW

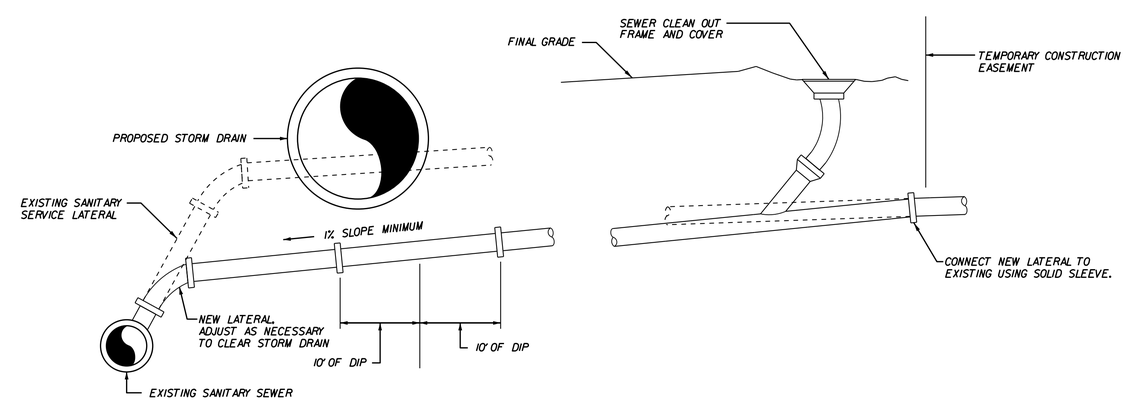
MANUAL AIR RELEASE ASSEMBLY

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	WATER AND SANITARY	1 of 1	351



CASE 1



CASE 2

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY SEWER LATERAL CROSSING LOCATIONS AHEAD OF PIPE LAYING ACTIVITIES.
2. CONTRACTOR SHALL CONFINE WORK WITHIN THE LIMITS OF THE TEMPORARY CONSTRUCTION EASEMENT.
3. LATERAL TO BE SAME MATERIAL AS SEWER MAIN.*
4. MAINTAIN A MINIMUM 36" COVER OVER LATERAL.
5. LATERALS SHALL BE ADJUSTED TO THE PROPOSED R/W LINE.
6. ADJUSTED SEWER LATERALS SHALL BE RECONNECTED TO THE EXISTING LATERAL ON THE PRIVATE SIDE.

SANITARY SEWER CLEANOUT RELOCATION

NOT TO SCALE

CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION			90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 UTILITY DETAILS			
CLARKNEXSEN	CITY PROJECT MANAGER: M. VELASQUEZ	DRAWN BY: JLM	SHEET NO. 20(2A)
	DATE: 5/10/19	DESIGNED BY: ERM	
		APPROVED BY: DMP	

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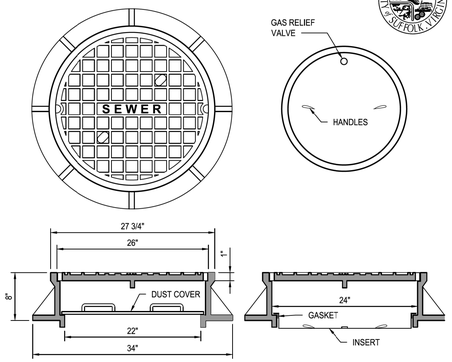


DUST COVER

ALTERNATIVE INSERT

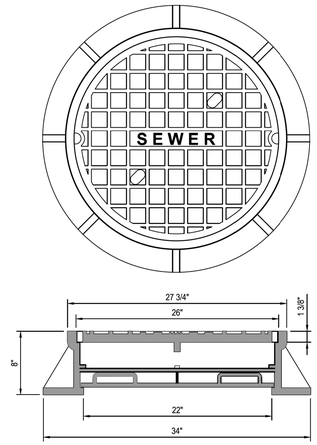
NOTES:

1. FRAME AND COVER BY CAPITOL FOUNDRY MODEL C-21-Y (OR APPROVED EQUAL) MARKED "SEWER"
2. MANHOLE INSERT TO BE PARSON ENVIRONMENTAL STAINLESS STEEL WITH GAS RELIEF VALVE, CLOSED-CELL NEOPRENE GASKET AND (2) PLASTIC COATED STAINLESS STEEL CABLE HANDLES OR APPROVED EQUAL.
3. PROVIDE MANHOLE INSERT AS ALTERNATIVE TO DUST COVER IN ALL LOCATIONS POTENTIALLY SUBJECT TO FLOODING OR AS DIRECTED BY DPU.

STANDARD MANHOLE FRAME AND COVER WITH INSERT

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	SANITARY	1 of 1	258



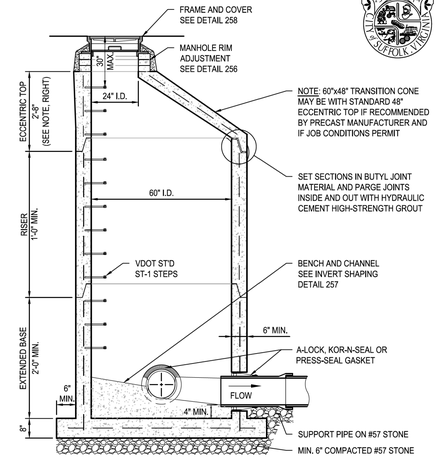
NOTES:

1. FRAME AND COVER BY CAPITOL FOUNDRY MODEL C-21-Y"WT (OR APPROVED EQUAL) MARKED "SEWER".
2. PROVIDE IN AREAS SUBJECT TO FLOODING OR LOCATIONS AS DIRECTED BY DPU.

STANDARD WATERTIGHT MANHOLE FRAME AND COVER

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	SANITARY	1 of 1	259



NOTES:

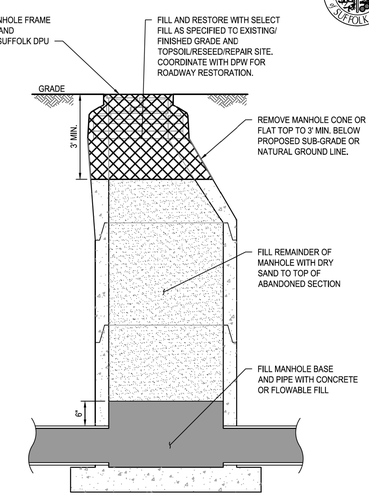
1. MANHOLE AND STEP SPACING TO BE IN COMPLIANCE W/ ASTM C-478.
2. BUTYL JOINT MATERIAL SHALL BE IN COMPLIANCE WITH ASTM C-990.
3. PRECAST LIFT HOLES, IF PROVIDED, SHALL BE PLUGGED W/ HIGH-STRENGTH, NON-SHRINK GROUT TO MAKE WATERTIGHT AFTER INSTALLATION.
4. FOR MANHOLES GREATER THAN 60" DIAMETER SUBMIT FULL DESIGN.
5. MINIMUM 0.10 FOOT DROP FROM INFLUENT INVERTS TO OUT PIPE INVERT.

STANDARD 60" DIAMETER MANHOLE

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	SANITARY	1 of 1	251

PROVIDE METHOD OF ABANDONMENT TO DPU.

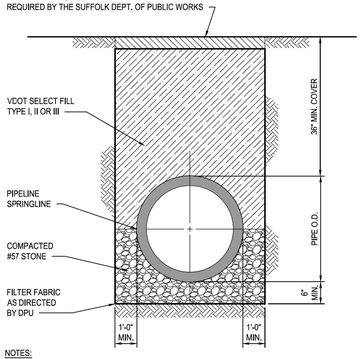


MANHOLE AND PIPE ABANDONMENT

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	SANITARY	1 of 1	260

SURFACE RESTORATION SHALL BE 4" TOPSOIL, FERTILIZER, SEED & MULCH FOR GRASS AREAS; 6" COMPACTED VDOT 21A FOR GRAVEL ROADS OR SHOULDERS; OR PAVEMENT PATCHING AS REQUIRED BY THE SUFFOLK DEPT. OF PUBLIC WORKS



NOTES:

1. TRENCH AND PIPE BEDDING SHALL BE IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS.
2. BELL HOLES SHALL BE HAND SHAPED SO THAT ONLY PIPE BARREL RECEIVES BEARING PRESSURE.
3. PLACE BEDDING TO ENSURE THERE ARE NO VOIDS UNDER OR ALONG PIPE.
4. TRENCH SHALL BE CLEAR OF WATER OR DEBRIS PRIOR TO PLACING BEDDING.
5. COORDINATE PAVEMENT PATCHING REQUIREMENTS WITH DEPARTMENT OF PUBLIC WORKS.
6. CERTIFICATION OF COMPACTION SHALL BE SUBMITTED FROM A GEOTECHNICAL ENGINEERING FIRM.

TRENCH AND PIPE BEDDING DETAIL

NOT TO SCALE

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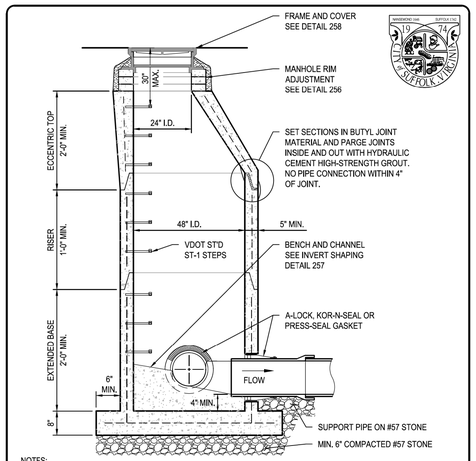
PFM Vol. II	2017	WATER AND SANITARY	1 of 2	354-1

NOTES:

1. BEDDING FOR PIPE AND STRUCTURES AND OVER EXCAVATION FILL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE COMPACTED VDOT NO. 57 STONE.
2. ONLY SELECT FILL MEETING THE REQUIREMENTS OF VDOT SELECT FILL TYPE I, TYPE II OR TYPE III WILL BE ALLOWED TO BE PUT BACK IN THE TRENCH OR USED AS BACKFILL. ON-SITE MATERIAL SHALL NOT BE USED FOR BACKFILL UNLESS IT CAN BE SHOWN TO MEET THE REQUIREMENTS OF SELECT FILL AS DESCRIBED HEREIN AND AS CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER. IF ON-SITE MATERIAL IS UTILIZED, THE FREQUENCY OF CERTIFICATION SHALL BE AS DIRECTED BY THE CITY.
3. SELECT FILL MATERIAL SHALL BE WITHIN 2% ABOVE OR BELOW THE OPTIMUM MOISTURE CONTENT FOR THE MATERIAL WHILE PLACING AND DURING COMPACTION. AFTER EACH LAYER HAS BEEN PLACED, MIXED AND SPREAD EVENLY, IT SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR TEST).
4. SELECT FILL MATERIAL PLACED IN UNIMPROVED AREAS 10 FEET AND BEYOND STRUCTURES, ROADWAYS, PIPES OR OTHER IMPROVED AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR TEST).
5. FREQUENCY OF COMPACTION TESTING SHALL BE AS REQUIRED BY THE GEOTECHNICAL ENGINEER AND AS APPROVED BY THE DEPARTMENT.

TRENCH AND PIPE BEDDING NOTES

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	WATER AND SANITARY	2 of 2	354-2



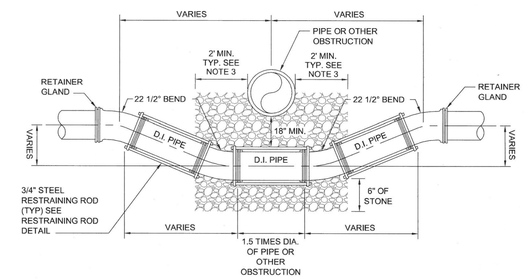
NOTES:

1. MANHOLE AND STEP SPACING TO BE IN COMPLIANCE W/ ASTM C-478.
2. BUTYL JOINT MATERIAL SHALL BE IN COMPLIANCE W/ ASTM C-990.
3. PRECAST LIFT HOLES, IF PROVIDED, SHALL BE PLUGGED W/ HIGH-STRENGTH, NON-SHRINK GROUT TO MAKE WATERTIGHT AFTER INSTALLATION.
4. USE STANDARD 48" MANHOLE FOR DEPTHS UP TO 12.0 FEET AS MEASURED FROM MANHOLE RIM TO INVERT OF LOWEST PIPE.
5. FOR DEPTHS GREATER THAN 12 FEET, OR WHERE PIPE SIZE DICTATES. USE 60" DIAMETER MANHOLE. REFER TO DETAIL 251.
6. MINIMUM 0.10 FOOT DROP FROM INFLUENT INVERTS TO OUT PIPE INVERT.

STANDARD 48" MANHOLE

NOT TO SCALE

REFERENCE	RELEASE 1	CATEGORY	SHEET NO.	DPU DETAIL NO.
PFM Vol. II	2017	SANITARY	1 of 1	250



NOTES:
1. SEE PLANS FOR OFFSET DIMENSIONS. NON-UNIFORM OFFSET REQUIRES SPECIAL DESIGN.
2. SEE PLANS FOR JOINT RESTRAINT LENGTHS.
3. BEDDING MATERIAL SHALL BE PLACED A MINIMUM OF 2 FEET BEYOND EACH PIPE AND PROJECT OUTWARD FROM THE CROSSING ALONG BOTH PIPES.

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY DETAILS

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	JLM	20(2B)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

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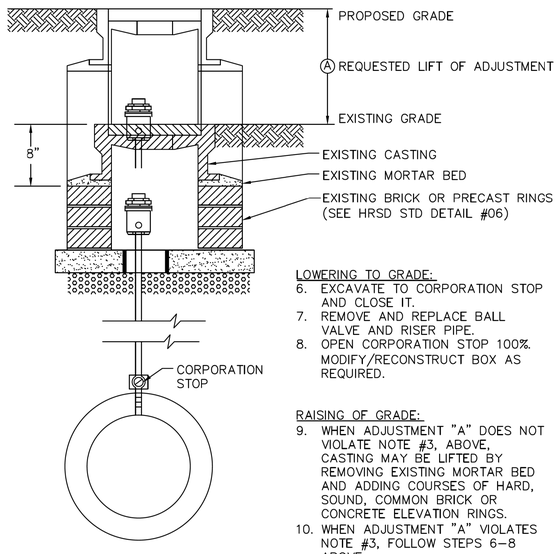
GENERAL ADJUSTMENT NOTES:

1. REFER TO HRSD STD. DETAIL #06 FOR TYPICAL AIR VENT VALVE BOX CONSTRUCTION.
2. REFER TO HRSD STD. DETAIL #07 FOR AIR VENT VALVE BOX CASTING LID AND FRAME (IF CASTING ON SITE IS NOT AS SHOWN IN DETAIL #07, NOTIFY HRSD ENGINEER).
3. TOP OF VALVE'S BRONZE PLUG SHALL BE NO CLOSER TO BOTTOM OF FRAME THAN TWO (2") INCHES NOR FARTHER THAN SIX (6") INCHES.
4. BED CAST IRON FRAME SOUNDLY IN MORTAR GROUT.
5. PARGE ENTIRE VALVE BOX (INSIDE & OUT) WITH GROUT.



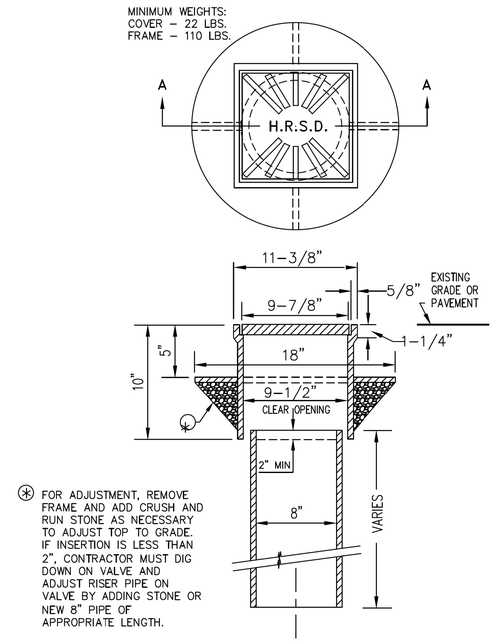
LOWERING TO GRADE:

6. EXCAVATE TO CORPORATION STOP AND CLOSE IT.
7. REMOVE AND REPLACE BALL VALVE AND RISER PIPE.
8. OPEN CORPORATION STOP 100%. MODIFY/RECONSTRUCT BOX AS REQUIRED.

RAISING OF GRADE:

9. WHEN ADJUSTMENT "A" DOES NOT VIOLATE NOTE #3, ABOVE, CASTING MAY BE LIFTED BY REMOVING EXISTING MORTAR BED AND ADDING COURSES OF HARD, SOUND, COMMON BRICK OR CONCRETE ELEVATION RINGS.
10. WHEN ADJUSTMENT "A" VIOLATES NOTE #3, FOLLOW STEPS 6–8 ABOVE.

HRSD	STANDARD DESIGN DETAIL	DRAWING NO. 09
		SHEET 1 OF 1
	AIR RELEASE VALVE BOX ADJUSTMENT	DATE 9/2016



(*) FOR ADJUSTMENT, REMOVE FRAME AND ADD CRUSH AND RUN STONE AS NECESSARY TO ADJUST TOP TO GRADE. IF INSERTION IS LESS THAN 2", CONTRACTOR MUST DIG DOWN ON VALVE AND ADJUST RISER PIPE ON VALVE BY ADDING STONE OR NEW 8" PIPE OF APPROPRIATE LENGTH.

SECTION A–A

FOR USE ON MAINLINE OR CONNECTION VALVES

N.T.S.

HRSD	STANDARD DESIGN DETAIL	DRAWING NO. 24
		SHEET 1 OF 1
	VALVE RISER ADJUSTMENT	DATE 9/2016

HRSD CONSTRUCTION NOTES

I. ALL PERSONS MUST CONTACT MISS UTILITY AT PHONE 1-800-552-7001 A MINIMUM OF 2 BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION WORK.

II. CONTACT HRSD INTERCEPTION OPERATIONS
CHRIS EVERTON
DURING OFFICE HOURS 757-803-4454
EMERGENCY/ NIGHT HOURS 757-874-3979
A MINIMUM OF 3 WEEKS PRIOR TO COMMENCING WORK TO COORDINATE INSPECTION. MISS UTILITY CALLS DO NOT FULFILL THIS REQUIREMENT.

III. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL HRSD VALVE, AIR VENT AND LEAK DETECTOR CASTINGS ARE ADJUSTED TO FINAL GRADE PER HRSD STANDARDS AND SPECIFICATIONS (see HRSD details in Sheet 20(2C)).

IV. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL HRSD CASTINGS AND APPURTENANCES MAINTAIN PROPER MARKINGS AND THEY ARE ALWAYS VISIBLE DURING CONSTRUCTION WORK.

V. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL HRSD APPURTENANCES ARE ACCESSIBLE TO HRSD MAINTENANCE CREWS AT ALL TIMES.

VI. CONTRACTOR SHALL FIELD VERIFY HRSD FORCE MAIN ELEVATIONS AT ALL PROPOSED UTILITY CROSSINGS PRIOR TO COMMENCING WORK.

VII. CONTRACTOR SHALL PROVIDE A MINIMUM OF 18-INCH VERTICAL CLEARANCE AT ALL UTILITY CROSSINGS. DEVIATION FROM THIS REQUIREMENT MUST BE COORDINATED AND APPROVED BY HRSD FIELD INSPECTOR.

VIII. CONTRACTOR SHALL USE EXTREME CAUTION WORKING AROUND AND IN PROXIMITY TO HRSD INFRASTRUCTURE.

IX. CONTRACTOR SHALL NOTE THAT SIX MONTHS AFTER COMPLETION OF PROJECT WORK, HRSD SHALL INSPECT THE CONSTRUCTION SITE TO ENSURE ALL PERTINENT APPURTENANCES ARE TO GRADE AND FUNCTIONING PROPERLY. CONTRACTOR SHALL BE EXPECTED TO WARRANTY AND REPAIR ANY DISCREPANCIES NOTED.

NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA	CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	90% PRELIMINARY PLANS NOT FOR CONSTRUCTION
	STATE RT. 17 AND STATE RT. 626 STATE PROJECT 0626-061-324 UTILITY PLANS HRSD NOTES AND DETAILS	
CLARKNEXSEN	CITY PROJECT MANAGER M. VELASQUEZ DATE 5/10/19	DRAWN BY JLM DESIGNED BY ERM APPROVED BY DMP
		SHEET NO. 20(2C)

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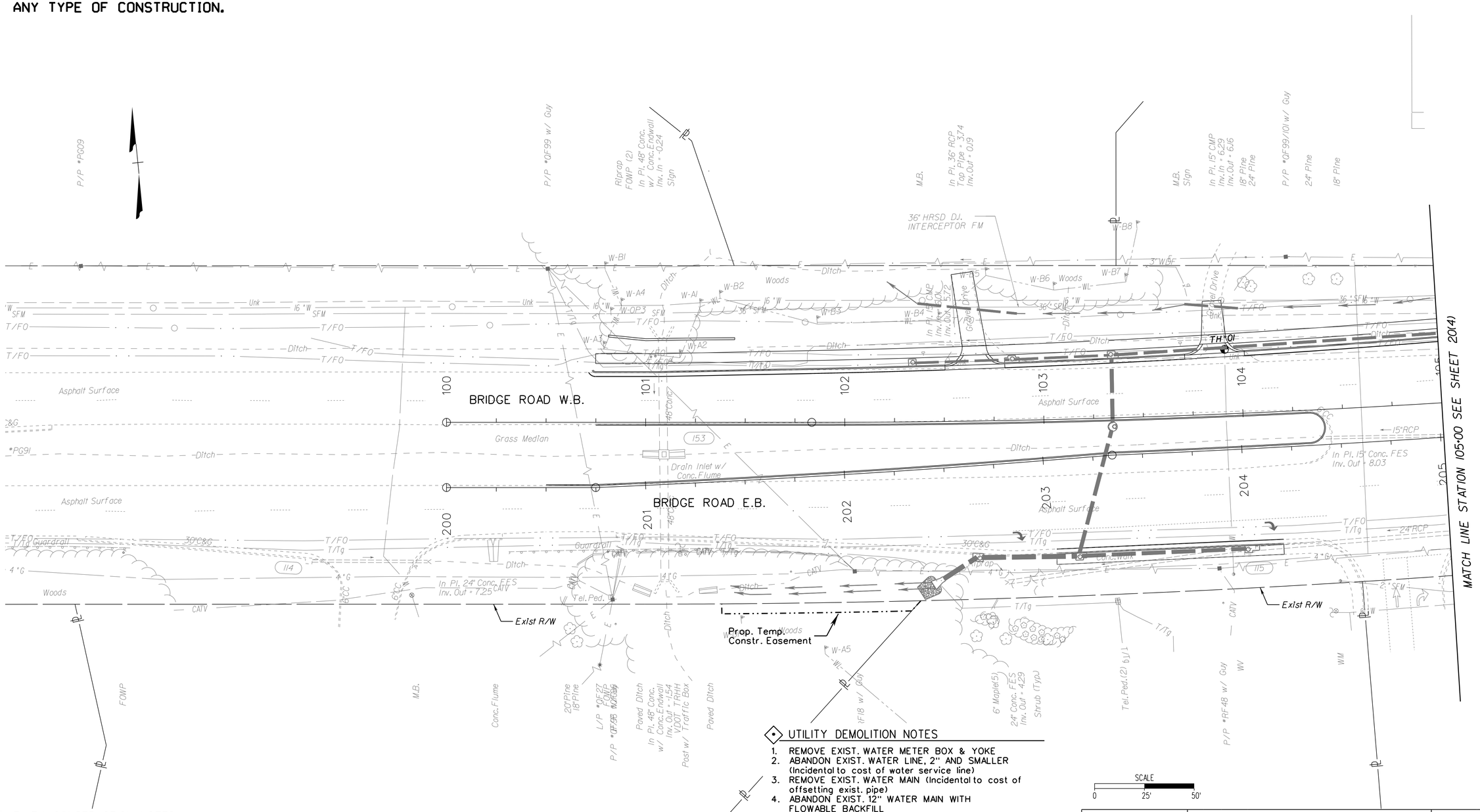

UTILITY CONSTRUCTION NOTES

1. ADJUST SANITARY SEWER MANHOLE FRAME AND COVER
2. ADJUST VALVE BOX
3. ADJUST WATER METER BOX
4. RELOCATE HRSD LEAK DETECTOR
5. RELOCATE SANITARY FORCE MAIN WITNESS POST
6. 16" BRANCH
7. 16" BUTTERFLY VALVE & BOX
8. 16" BEND (11.25°)
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11. WATER SERVICE LINE
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13. 24" X 16" TAPPING SLEEVE VALVE & BOX
14. 16" BEND (45°)
15. FIRE HYDRANT
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18. SANITARY SEWER MANHOLE
19. OFFSET EXIST. PIPE (12" DIP WATER MAIN)
20. OFFSET EXIST. PIPE (10" DIP SANITARY FORCE MAIN)
21. MANUAL AIR RELEASE ASSEMBLY (SEE DETAIL ON SHEET 20(2A))
22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

UTILITY DEMOLITION NOTES

1. REMOVE EXIST. WATER METER BOX & YOKE
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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 100+00 - 105+00

90% PRELIMINARY PLANS
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CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	JLM
M. VELASQUEZ	DESIGNED BY	ERM
DATE 5/10/19	APPROVED BY	DMP

SHEET NO. 20(3)

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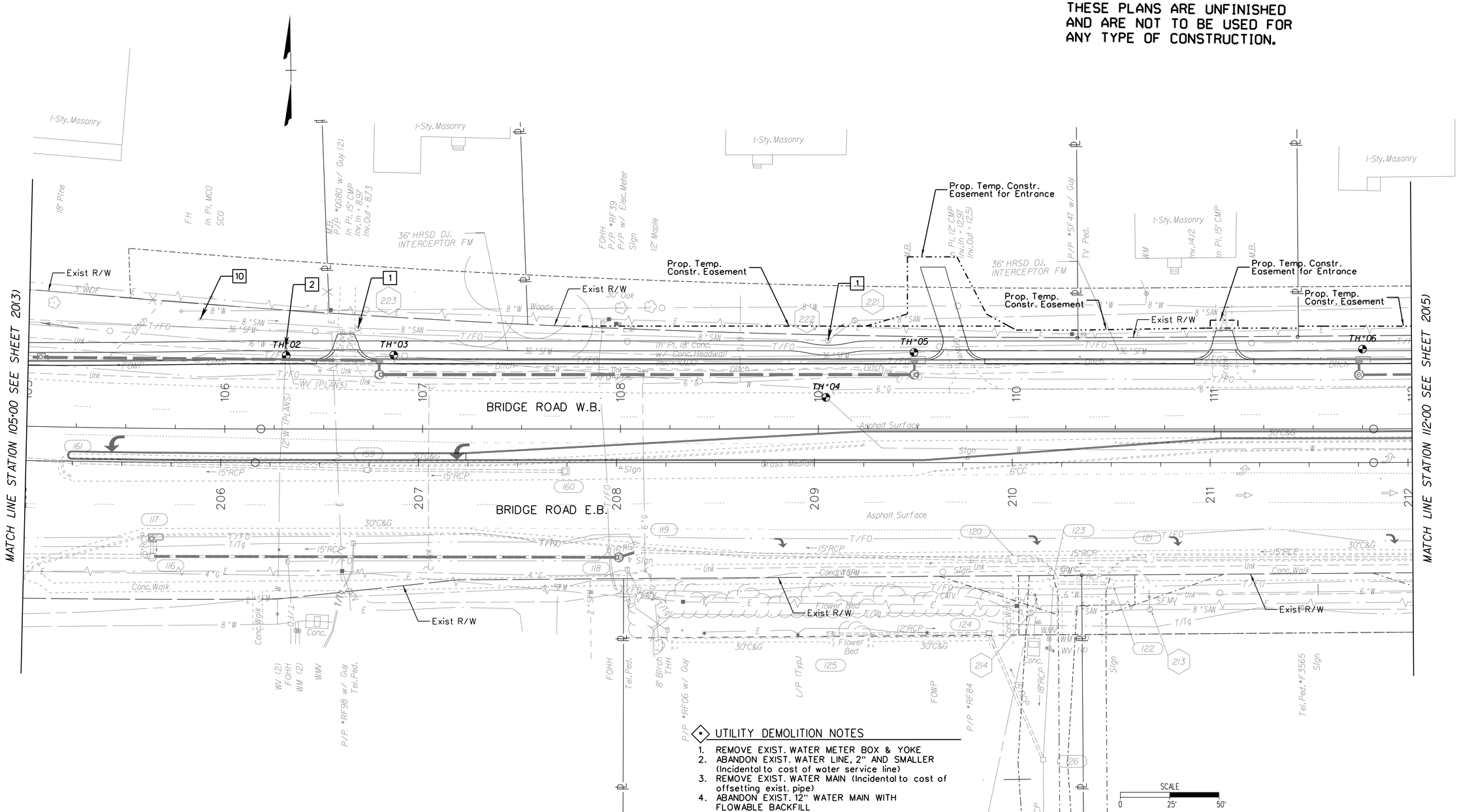

UTILITY CONSTRUCTION NOTES

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21. MANUAL AIR RELEASE ASSEMBLY (SEE DETAIL ON SHEET 20(2A))
22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

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NANSEMOND 1646 SUFFOLK 1742 19 74 CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 105+00 - 112+00

90% PRELIMINARY PLANS
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CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	JLM	20(4)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

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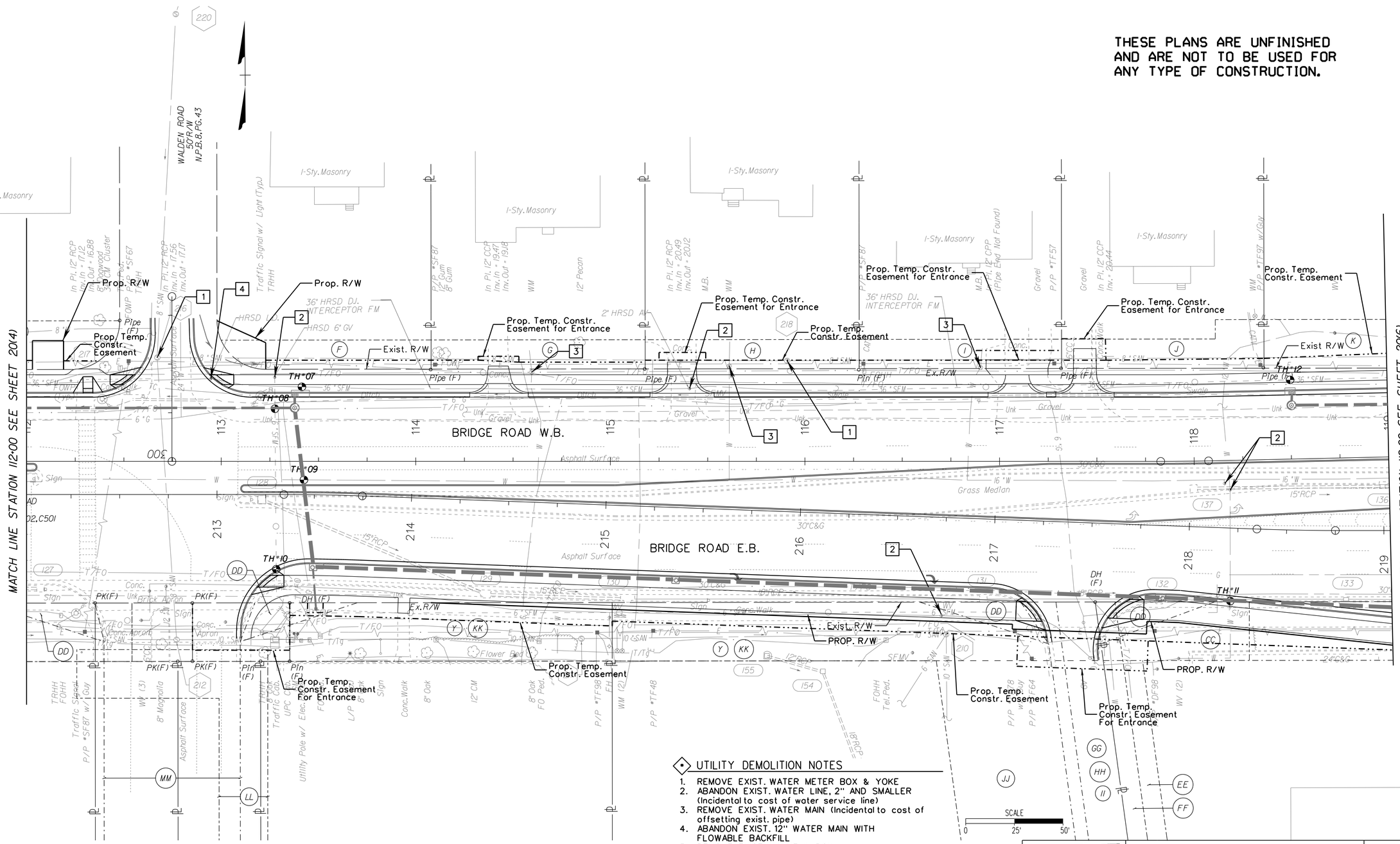

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23. 16" REDUCER

LEGEND

Connect to Exist. Utility

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 112+00 - 119+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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CITY PROJECT MANAGER	DRAWN BY	JLM
M. VELASQUEZ	DESIGNED BY	ERM
DATE 5/10/19	APPROVED BY	DMP

SHEET NO. 20(5)

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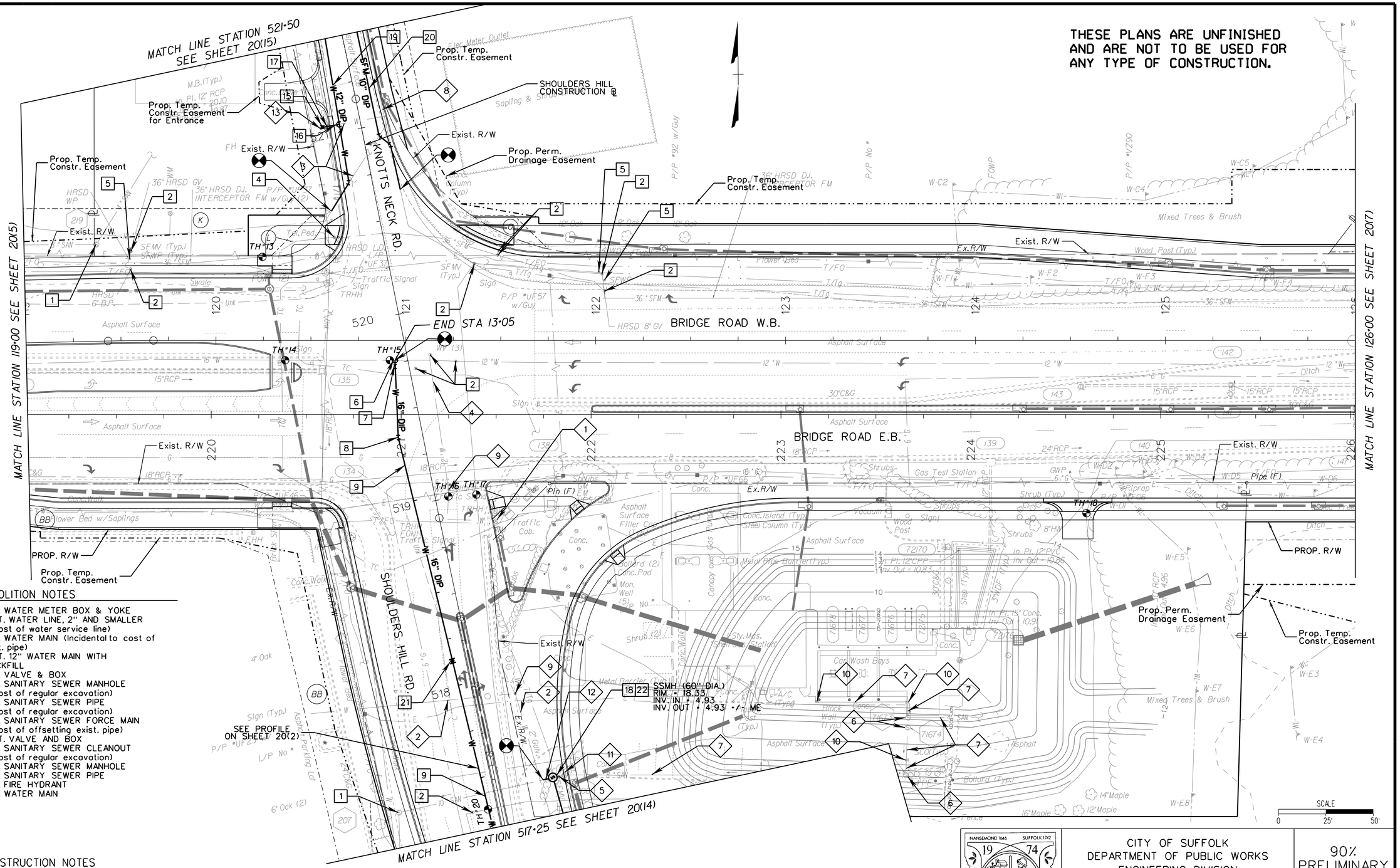

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LEGEND

Connect to Exist. Utility

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 119+00 - 126+00 :
STA 517+25 - 521+50

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

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CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	JLM
DESIGNED BY	ERM
APPROVED BY	DMP
SHEET NO.	20(6)

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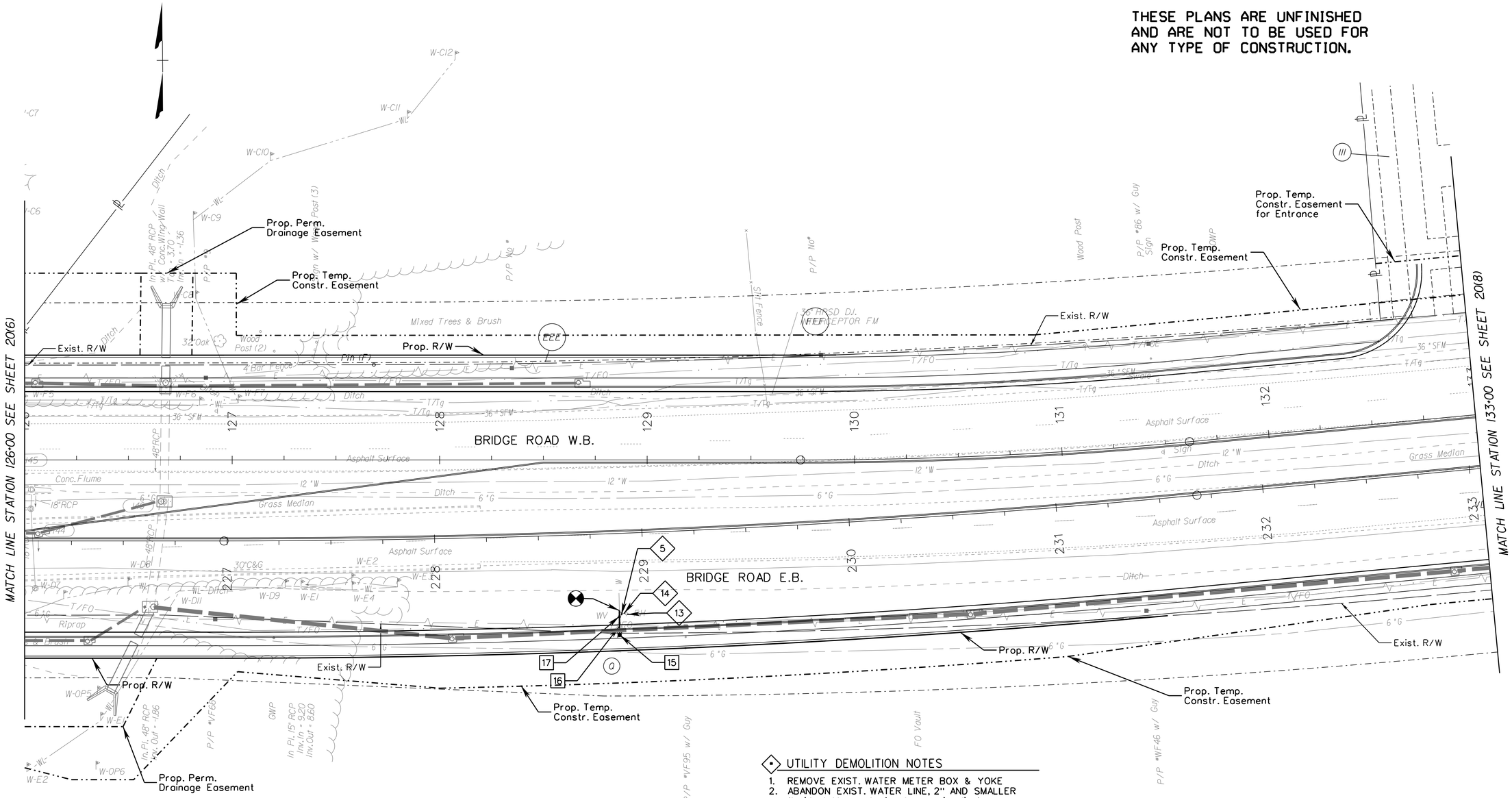

UTILITY CONSTRUCTION NOTES

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Connect to Exist. Utility

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SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 126+00 - 133+00

90% PRELIMINARY PLANS
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CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	JLM	20(7)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

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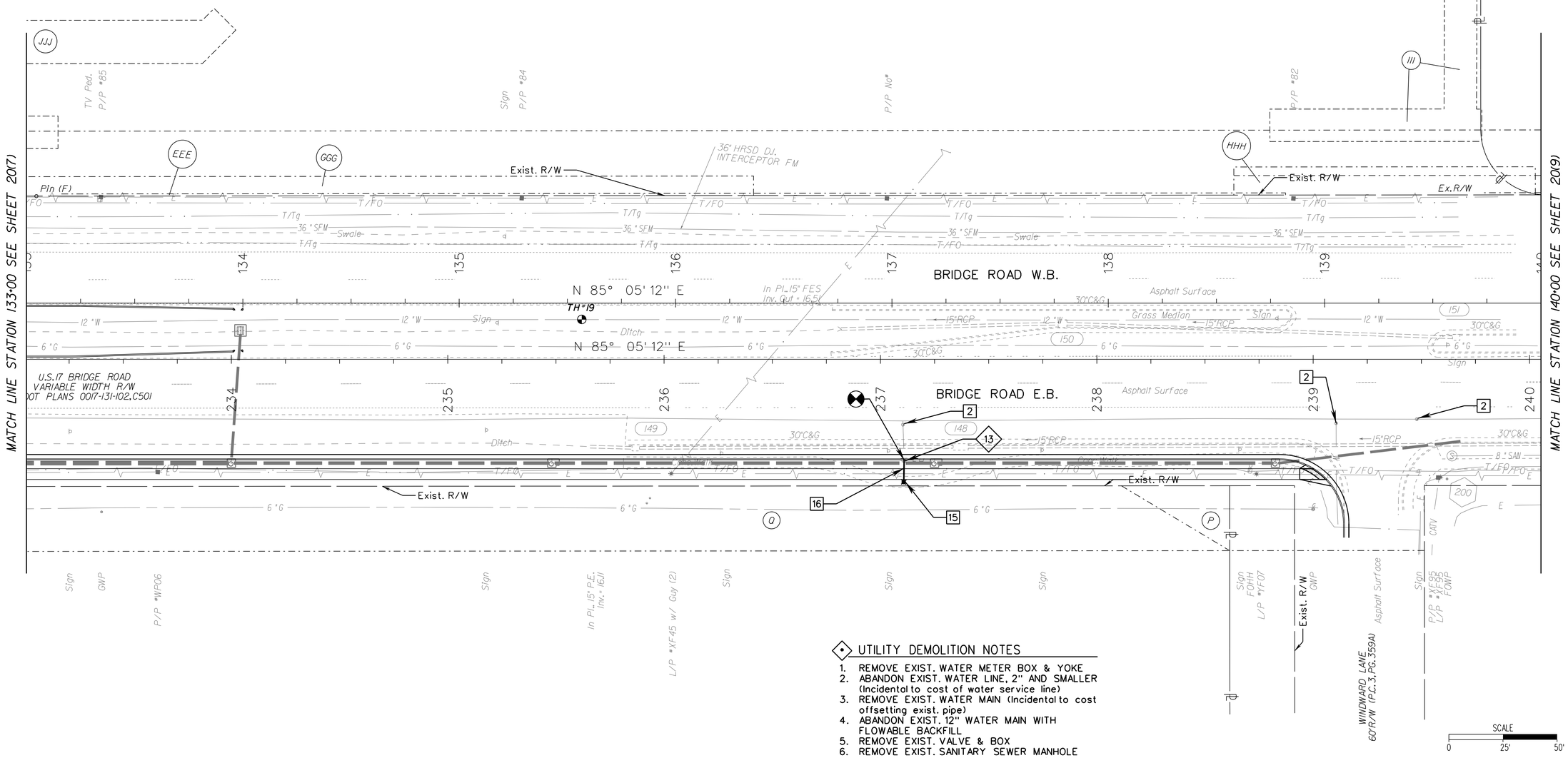

UTILITY CONSTRUCTION NOTES

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22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

UTILITY DEMOLITION NOTES

1. REMOVE EXIST. WATER METER BOX & YOKE
2. ABANDON EXIST. WATER LINE, 2" AND SMALLER (Incidental to cost of water service line)
3. REMOVE EXIST. WATER MAIN (Incidental to cost offsetting exist. pipe)
4. ABANDON EXIST. 12" WATER MAIN WITH FLOWABLE BACKFILL
5. REMOVE EXIST. VALVE & BOX
6. REMOVE EXIST. SANITARY SEWER MANHOLE (Incidental to cost of regular excavation)
7. REMOVE EXIST. SANITARY SEWER PIPE (Incidental to cost of regular excavation)
8. REMOVE EXIST. SANITARY SEWER FORCE MAIN (Incidental to cost of offsetting exist. pipe)
9. ABANDON EXIST. VALVE AND BOX
10. REMOVE EXIST. SANITARY SEWER CLEANOUT (Incidental to cost of regular excavation)
11. REMOVE EXIST. SANITARY SEWER MANHOLE
12. REMOVE EXIST. SANITARY SEWER PIPE
13. REMOVE EXIST. FIRE HYDRANT
14. REMOVE EXIST. WATER MAIN

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 133+00 - 140+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	JLM
DATE	5/10/19	DESIGNED BY	ERM
		APPROVED BY	DMP
SHEET NO.	20(8)		

4/24/19 PM
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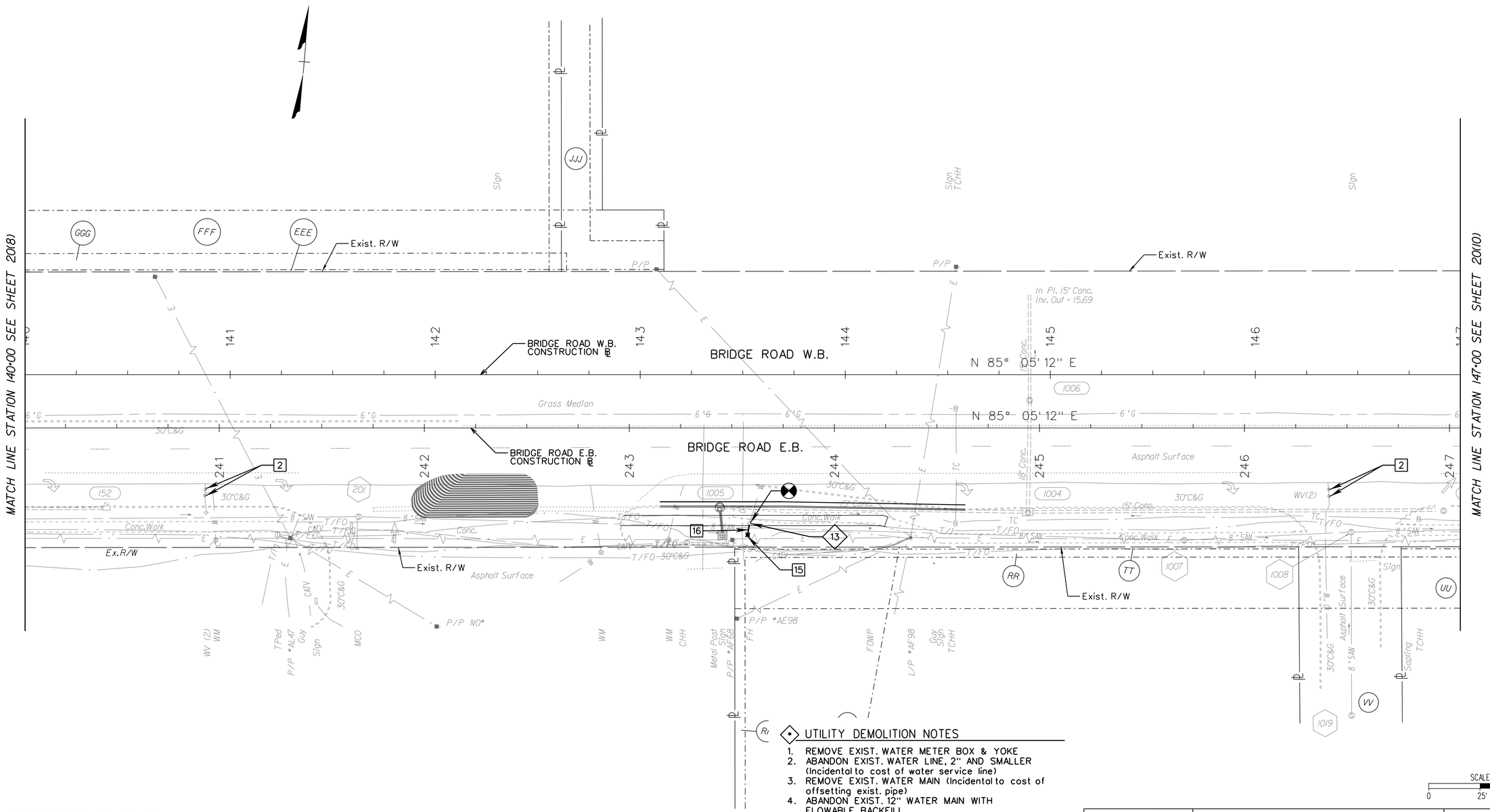
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



UTILITY CONSTRUCTION NOTES

1. ADJUST SANITARY SEWER MANHOLE FRAME AND COVER
2. ADJUST VALVE BOX
3. ADJUST WATER METER BOX
4. RELOCATE HRSD LEAK DETECTOR
5. RELOCATE SANITARY FORCE MAIN WITNESS POST
6. 16" BRANCH
7. 16" BUTTERFLY VALVE & BOX
8. 16" BEND (11.25°)
9. 16" DIWATER MAIN
10. ADJUST SANITARY SEWER CLEANOUT
11. WATER SERVICE LINE
12. WATER METER BOX & YOKE
13. 24" X 16" TAPPING SLEEVE VALVE & BOX
14. 16" BEND (45°)
15. FIRE HYDRANT
16. 6" DIWATER MAIN
17. 6" GATE VALVE & BOX
18. SANITARY SEWER MANHOLE
19. OFFSET EXIST. PIPE (12" DIP WATER MAIN)
20. OFFSET EXIST. PIPE (10" DIP SANITARY FORCE MAIN)
21. MANUAL AIR RELEASE ASSEMBLY (SEE DETAIL ON SHEET 20(2A))
22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

UTILITY DEMOLITION NOTES

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12. REMOVE EXIST. SANITARY SEWER PIPE
13. REMOVE EXIST. FIRE HYDRANT
14. REMOVE EXIST. WATER MAIN

SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 140+00 - 147+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	JLM
DESIGNED BY	ERM
APPROVED BY	DMP
SHEET NO.	20(9)

4/24/13 PM
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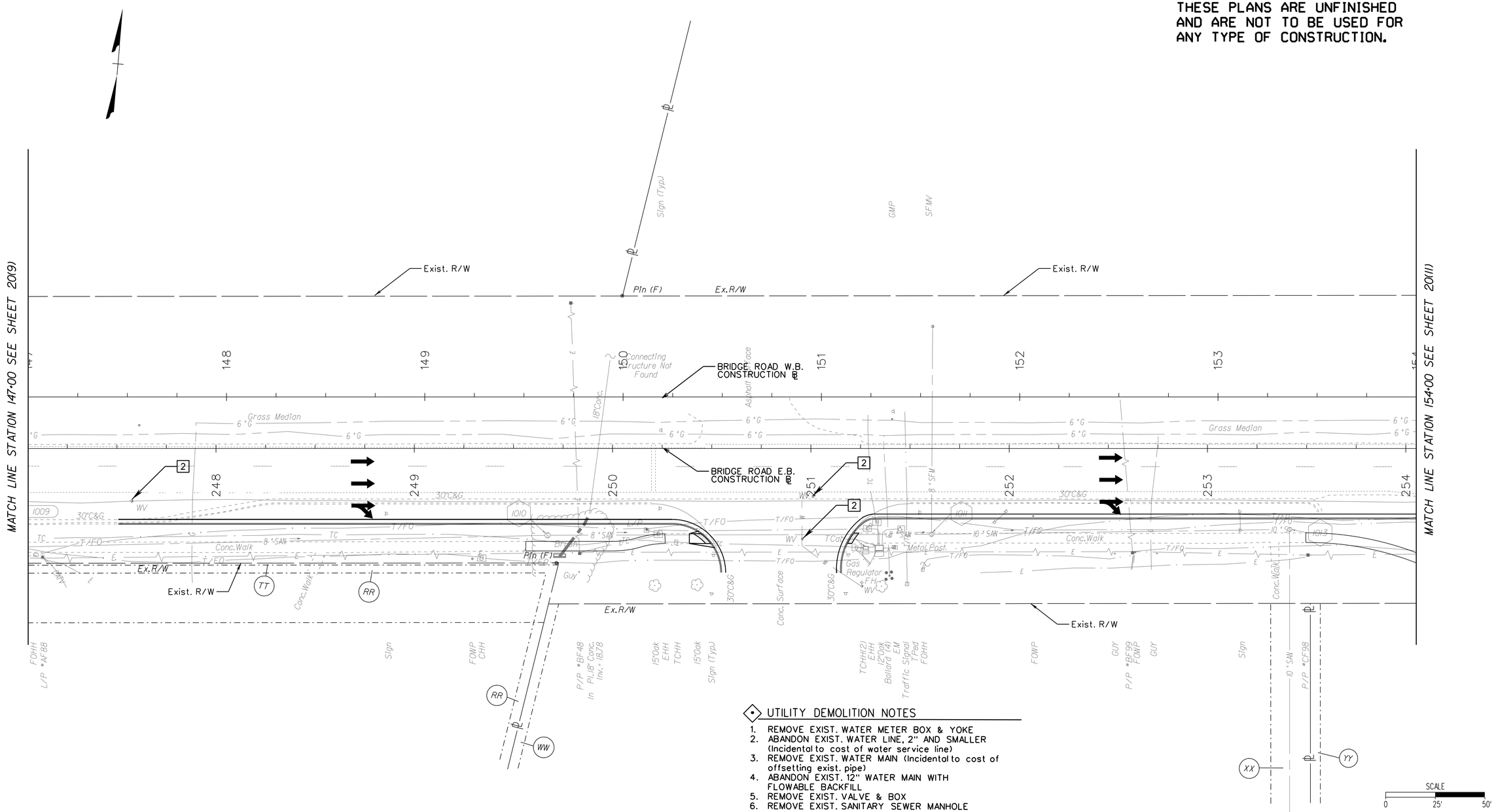
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



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UTILITY CONSTRUCTION NOTES

1. ADJUST SANITARY SEWER MANHOLE FRAME AND COVER
2. ADJUST VALVE BOX
3. ADJUST WATER METER BOX
4. RELOCATE HRSD LEAK DETECTOR
5. RELOCATE SANITARY FORCE MAIN WITNESS POST
6. 16" BRANCH
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9. 16" DIWATER MAIN
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22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 147+00 - 154+00

90% PRELIMINARY PLANS

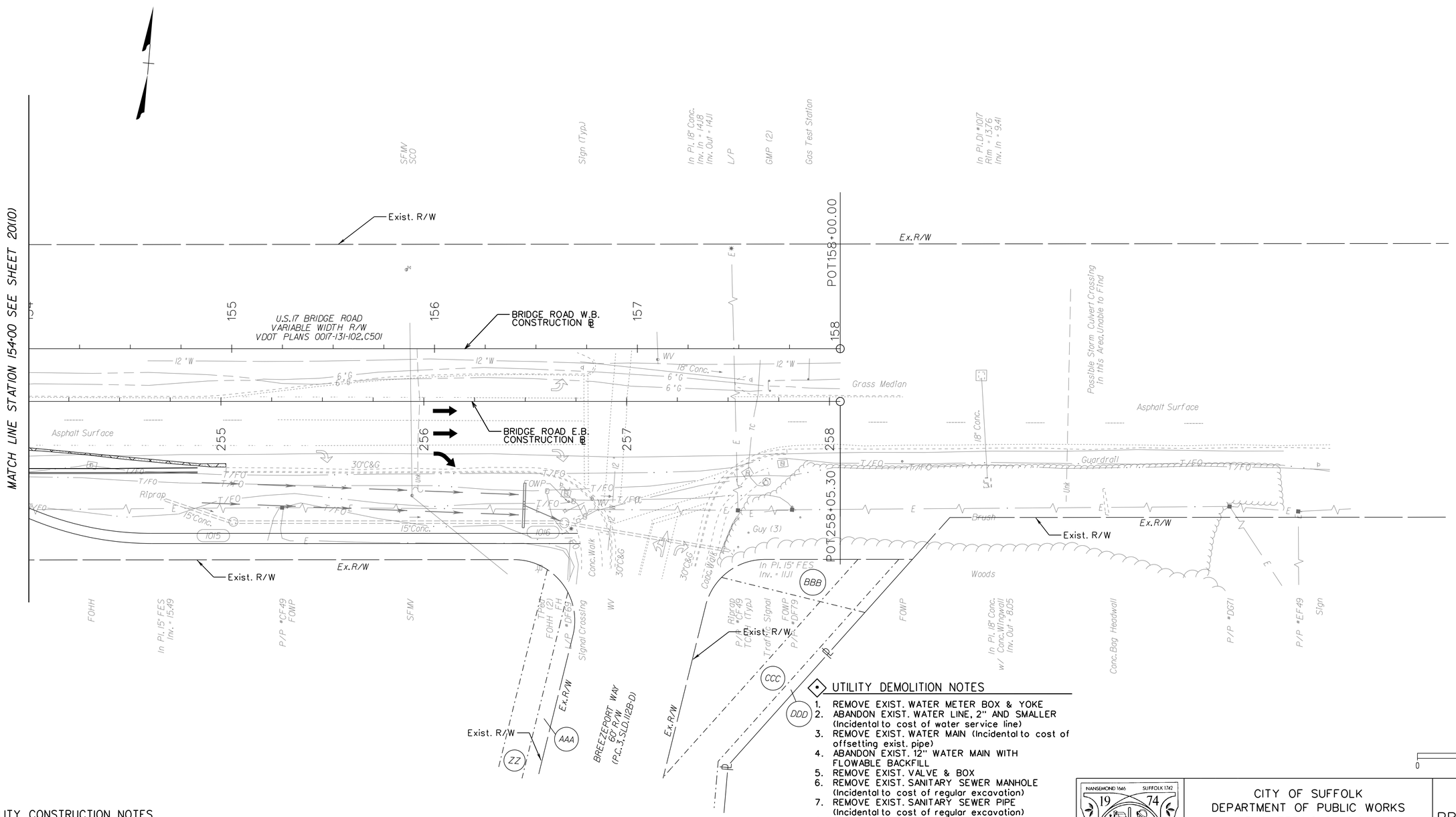
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ
DATE	5/10/19
DRAWN BY	JLM
DESIGNED BY	ERM
APPROVED BY	DMP
SHEET NO.	20(10)

4/24/14 PW
I:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\69050\69050 Sheets\d69050020_10.dgn

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



UTILITY CONSTRUCTION NOTES

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2. ADJUST VALVE BOX
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22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

UTILITY DEMOLITION NOTES

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11. REMOVE EXIST. SANITARY SEWER MANHOLE
12. REMOVE EXIST. SANITARY SEWER PIPE
13. REMOVE EXIST. FIRE HYDRANT
14. REMOVE EXIST. WATER MAIN

SCALE
0 25' 50'

NANSEMOND 1646 SUFFOLK 1742
CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 154+00 - 158+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	M. VELASQUEZ	DRAWN BY	JLM
DATE	5/10/19	DESIGNED BY	ERM
		APPROVED BY	DMP
SHEET NO.	20(11)		

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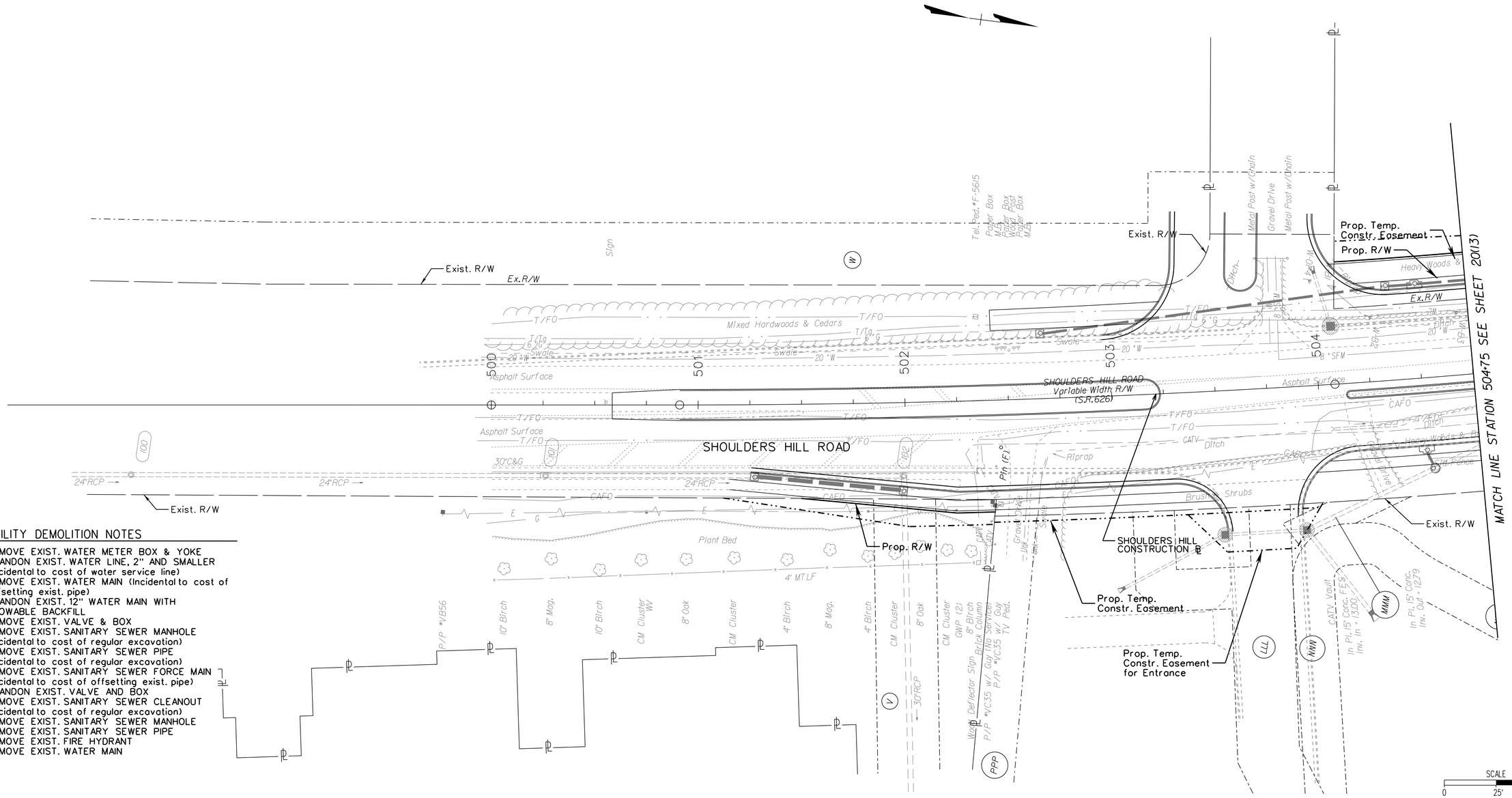
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



UTILITY DEMOLITION NOTES

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UTILITY CONSTRUCTION NOTES

1. ADJUST SANITARY SEWER MANHOLE FRAME AND COVER
2. ADJUST VALVE BOX
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21. MANUAL AIR RELEASE ASSEMBLY (SEE DETAIL ON SHEET 20(2A))
22. MANHOLE FRAME & COVER (W/ STAINLESS STEEL INSERT)
23. 16" REDUCER

LEGEND

Connect to Exist. Utility

NANSEMOND 1646 — SUFFOLK 1742 — 1974 — CITY of SUFFOLK, VIRGINIA

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 500+00 - 504+75

90% PRELIMINARY PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER M. VELASQUEZ	DRAWN BY JLM	SHEET NO. 20(12)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

4/24/27 PM
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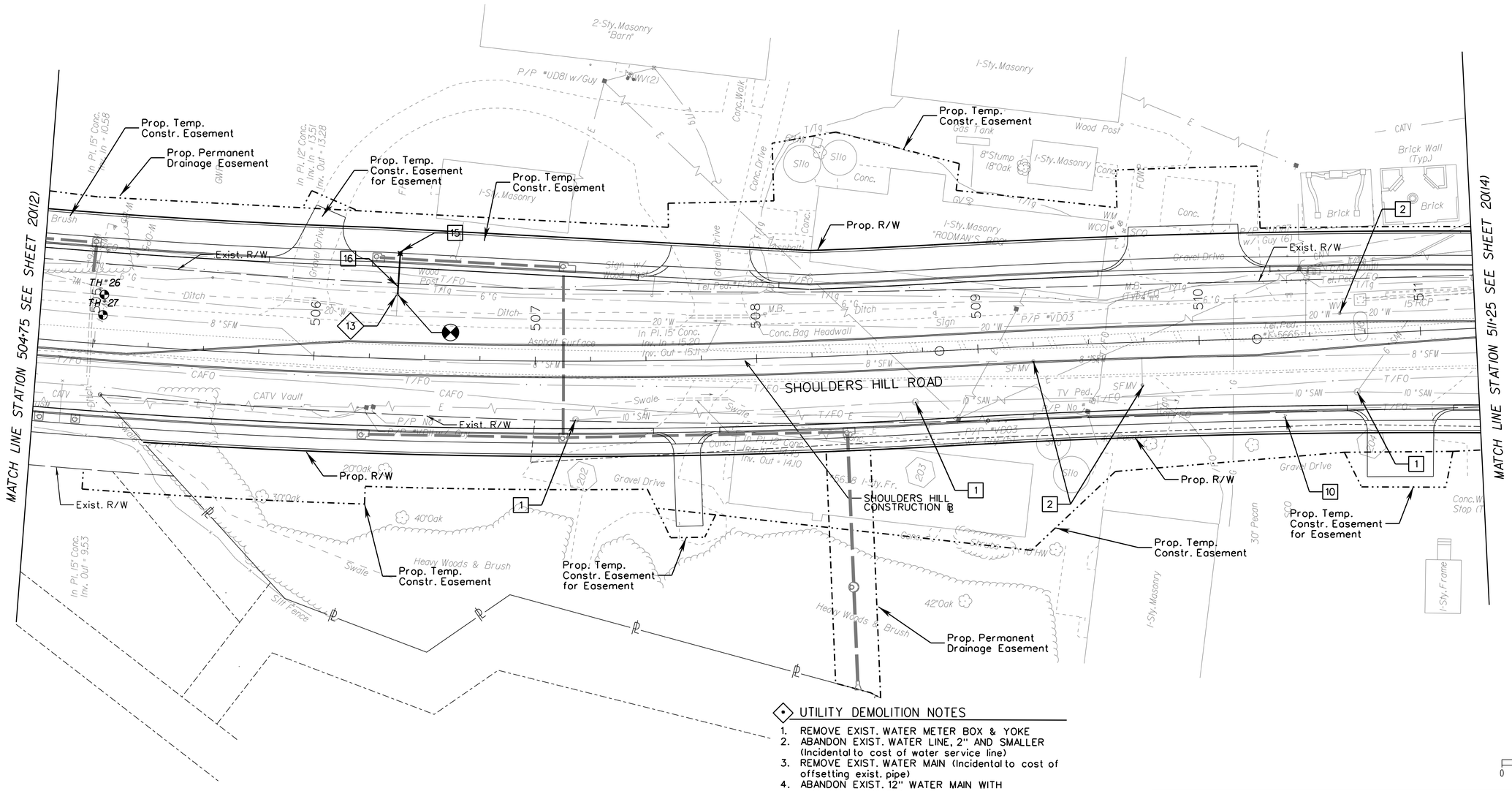
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



UTILITY CONSTRUCTION NOTES

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LEGEND

Connect to Exist. Utility

UTILITY DEMOLITION NOTES

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SCALE 0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 504+75 - 511+25

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	JLM	20(13)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

4/04/28 PM
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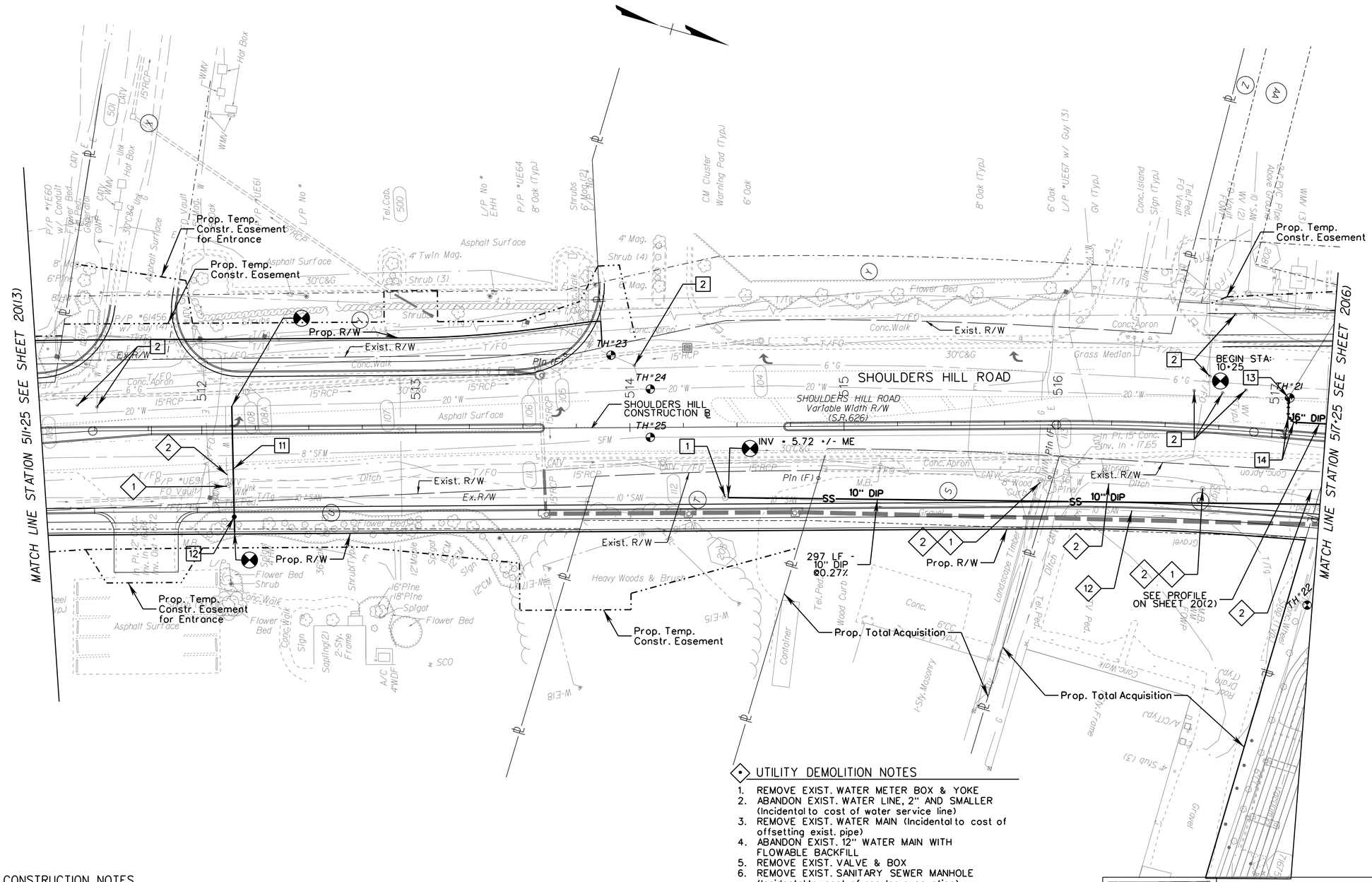

UTILITY CONSTRUCTION NOTES

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23. 16" REDUCER

LEGEND

Connect to Exist. Utility

UTILITY DEMOLITION NOTES

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SCALE
0 25' 50'

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 511+25 - 517+25

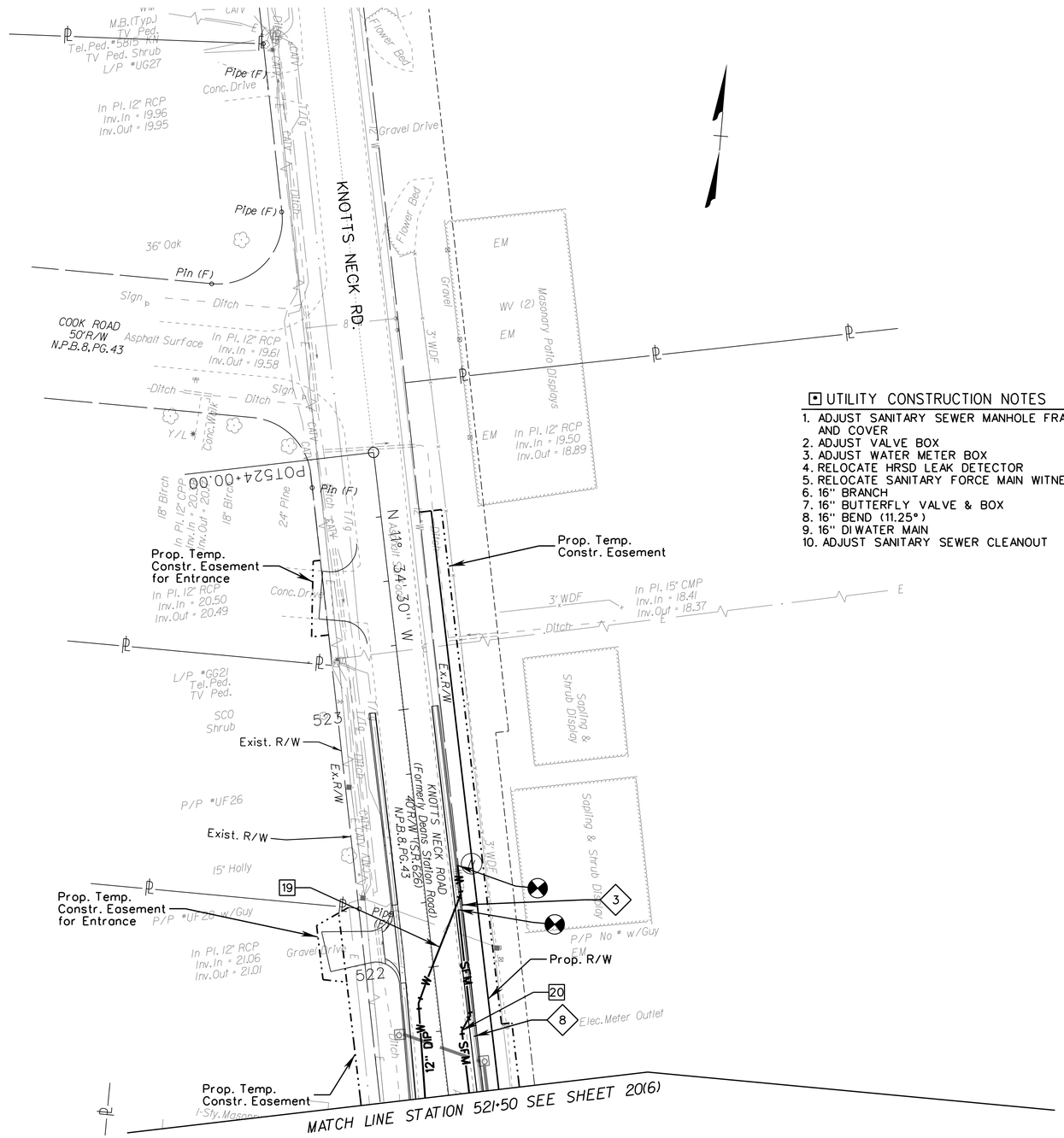
90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	JLM	20(14)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

4/24/19 PM
I:\Projects\60006298-A-Bridge Rd Shoulder Hill Rd Int-Design\69050\69050_Sheets\d6905020_14.dgn

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



UTILITY CONSTRUCTION NOTES

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Connect to Exist. Utility

UTILITY DEMOLITION NOTES

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SCALE 0 25' 50'

NANSEMOND 1646 SUFFOLK 1742 CITY OF SUFFOLK VIRGINIA 1974

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 626
STATE PROJECT 0626-061-324
UTILITY PLAN STA 521+50 - 524+00

90% PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER	DRAWN BY	SHEET NO.
M. VELASQUEZ	JLM	20(15)
DATE 5/10/19	DESIGNED BY ERM	
	APPROVED BY DMP	

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