

Activity ID	Activity Name	Original Duration	Start	Finish	2018																												2019												2020												2021												2022														
					Oct	N	D	J	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	Jan	F	M	A	M	J	Jul																					
C1B31290	Cure Deck, Ph 1B Bridge B678	7	29-May-19	04-Jun-19																																									Cure Deck, Ph 1B Bridge B678																																						
C1B31160	Construct Parapets, Ph 1B Bridge B678	5	07-Jun-19	14-Jun-19																																									Construct Parapets, Ph 1B Bridge B678																																						
C1B31190	Groove Deck, Ph 1B Bridge B678	2	17-Jun-19	18-Jun-19																																									Groove Deck, Ph 1B Bridge B678																																						
Underdeck					10	29-May-19	13-Jun-19																																																																												
C1B31180	Install Underdeck Conduits, Ph 1B Bridge B678	5	29-May-19	05-Jun-19																																									Install Underdeck Conduits, Ph 1B Bridge B678																																						
C1B51160	Replace Bearing, Ph 1B Bridge B678	5	06-Jun-19	13-Jun-19																																									Replace Bearing, Ph 1B Bridge B678																																						
Bridge B679 Bon Air Park					88	28-Dec-18	31-May-19																																																																												
C1B41000	Start Milestone, Ph 1B Bridge B679	0	28-Dec-18																																										Start Milestone, Ph 1B Bridge B679																																						
C1B41020	Install MOT & Shift Traffic, Ph 1B Bridge B679	5	28-Dec-18	04-Jan-19																																									Install MOT & Shift Traffic, Ph 1B Bridge B679																																						
C1B41030	Site Prep, Ph 1B Bridge B679	5	07-Jan-19	14-Jan-19																																									Site Prep, Ph 1B Bridge B679																																						
C1B41010	Install Demo Shield & Canopy over Ped / Bike Facilities, Ph 1B Bridge B679	10	07-Jan-19	22-Jan-19																																									Install Demo Shield & Canopy over Ped / Bike Facilities, Ph 1B Bridge B679																																						
C1B41040	Sawcut & Demo Deck Overhangs & Retaining Wall (Partial), Ph 1B Bridge B679	15	24-Jan-19	18-Feb-19																																									Sawcut & Demo Deck Overhangs & Retaining Wall (Partial), Ph 1B Bridge B679																																						
C1B41220	Install Temp Deck Support, Ph 1B Bridge B679	3	21-Feb-19	25-Feb-19																																									Install Temp Deck Support, Ph 1B Bridge B679																																						
C1B41140	Construct Approach Roadway, Ph 1B Bridge B679	5	20-May-19	28-May-19																																									Construct Approach Roadway, Ph 1B Bridge B679																																						
C1B41130	Groove Deck, Ph 1B Bridge B679	2	24-May-19	28-May-19																																									Groove Deck, Ph 1B Bridge B679																																						
C1B41150	Install Guardrail, Ph 1B Bridge B679	3	29-May-19	31-May-19																																									Install Guardrail, Ph 1B Bridge B679																																						
C1B41160	Finish Milestone, Ph 1B Bridge B679	0		31-May-19																																									Finish Milestone, Ph 1B Bridge B679																																						
Substructure					34	15-Jan-19	14-Mar-19																																																																												
C1B41200	Repair Exist Substructure, Ph 1B Bridge B679	20	15-Jan-19	18-Feb-19																																									Repair Exist Substructure, Ph 1B Bridge B679																																						
C1B41050	Construct Beam Seat A, Ph 1B Bridge B679	3	21-Feb-19	25-Feb-19																																									Construct Beam Seat A, Ph 1B Bridge B679																																						
C1B41060	Construct Beam Seat B, Ph 1B Bridge B679	3	26-Feb-19	28-Feb-19																																									Construct Beam Seat B, Ph 1B Bridge B679																																						
C1B41170	Cure Beam Seat A, Ph 1B Bridge B679	14	26-Feb-19	11-Mar-19																																									Cure Beam Seat A, Ph 1B Bridge B679																																						
C1B41180	Cure Beam Seat B, Ph 1B Bridge B679	14	01-Mar-19	14-Mar-19																																									Cure Beam Seat B, Ph 1B Bridge B679																																						
Superstructure					39	15-Mar-19	23-May-19																																																																												
C1B41070	Erect Steel Girders, Ph 1B Bridge B679	5	15-Mar-19	22-Mar-19																																									Erect Steel Girders, Ph 1B Bridge B679																																						
C1B41080	Install Diaphragms, Ph 1B Bridge B679	5	25-Mar-19	01-Apr-19																																									Install Diaphragms, Ph 1B Bridge B679																																						
C1B41090	Construct Deck, Ph 1B Bridge B679	20	02-Apr-19	06-May-19																																									Construct Deck, Ph 1B Bridge B679																																						
C1B41110	Widen Approach Slab, Ph 1B Bridge B679	6	07-May-19	17-May-19																																									Widen Approach Slab, Ph 1B Bridge B679																																						
C1B41190	Cure Deck, Ph 1B Bridge B679	7	07-May-19	13-May-19																																									Cure Deck, Ph 1B Bridge B679																																						
C1B41100	Construct Parapets, Ph 1B Bridge B679	5	15-May-19	23-May-19																																									Construct Parapets, Ph 1B Bridge B679																																						
Underdeck					10	07-May-19	24-May-19																																																																												
C1B41120	Install Underdeck Conduits, Ph 1B Bridge B679	10	07-May-19	24-May-19																																									Install Underdeck Conduits, Ph 1B Bridge B679																																						
Bridge B681 Ped Bridge over I-66					60	28-Dec-18	10-Apr-19																																																																												
C1B51000	Start Milestone, Ph 1B Bridge B681	0	28-Dec-18																																										Start Milestone, Ph 1B Bridge B681																																						
C1B51010	Install MOT, Ph 1B Bridge B681	5	28-Dec-18	04-Jan-19																																									Install MOT, Ph 1B Bridge B681																																						
C1B51020	Site Prep, Ph 1B Bridge B681	5	07-Jan-19	14-Jan-19																																									Site Prep, Ph 1B Bridge B681																																						
C1B51030	Install Drilled Shafts Pier 3, Ph 1B Bridge B681	10	15-Jan-19	31-Jan-19																																									Install Drilled Shafts Pier 3, Ph 1B Bridge B681																																						
C1B51040	Construct Pier 3, Ph 1B Bridge B681	15	01-Feb-19	27-Feb-19																																									Construct Pier 3, Ph 1B Bridge B681																																						
C1B51090	Cure Pier 3, Ph 1B Bridge B681	14	28-Feb-19	13-Mar-19																																									Cure Pier 3, Ph 1B Bridge B681																																						
C1B51100	Exist Beam Strengthening, Ph 1B Bridge B681	10	28-Feb-19	15-Mar-19																																									Exist Beam Strengthening, Ph 1B Bridge B681																																						
C1B51050	Jack Bridge Deck and Install Bear Pad, Ph 1B Bridge B681	5	18-Mar-19	25-Mar-19																																									Jack Bridge Deck and Install Bear Pad, Ph 1B Bridge B681																																						
C1B51060	Demo Existing Pier 3, Ph 1B Bridge B681	5	27-Mar-19	02-Apr-19																																									Demo Existing Pier 3, Ph 1B Bridge B681																																						
C1B51070	Construct Pier Protection, Ph 1B Bridge B681	5	03-Apr-19	10-Apr-19																																									Construct Pier Protection, Ph 1B Bridge B681																																						
C1B51080	Finish Milestone, Ph 1B Bridge B680	0		10-Apr-19																																									Finish Milestone, Ph 1B Bridge B680																																						
Phase 2					196	02-Aug-19	17-Jul-20																																																																												
C02-1000	Start Milestone, Ph 2	0	02-Aug-19																																										Start Milestone, Ph 2																																						
C02-1180	Install E&S, Ph 2	10	02-Aug-19	19-Aug-19																																									Install E&S, Ph 2																																						
C02-1010	Install MOT, Temp Barrier & Attenuators Wall, Ph 2	15	13-Aug-19	05-Sep-19																																									Install MOT, Temp Barrier & Attenuators Wall, Ph 2																																						
C02-1020	Demo Exist Barrier Wall, Ph 2	10	06-Sep-19	23-Sep-19																																									Demo Exist Barrier Wall, Ph 2																																						
C02-1030	Sawcut & Demo Exist Rdwy (Partial), Ph 2	25	06-Sep-19	17-Oct-19																																									Sawcut & Demo Exist Rdwy (Partial), Ph 2																																						
C02-1040	Excavate and Embank, Ph 2	35	24-Sep-19	19-Nov-19																																									Excavate and Embank, Ph 2																																						
C02-1170	Construct Retaining Wall, Ph 2	15	24-Sep-19	17-Oct-19																																									Construct Retaining Wall, Ph 2																																						
C02-1050	Install Drainage, Ph 2	35	10-Oct-19	09-Dec-19																																									Install Drainage, Ph 2																																						
C02-1060	Construct Subbase, Ph 2	45	28-Oct-19	13-Apr-20																																									Construct Subbase, Ph 2																																						
C02-1070	Install ITS and Elect Conduits, Ph 2	15	05-Nov-19	27-Nov-19																																									Install ITS and Elect Conduits, Ph 2																																						
C02-1080	Construct Noise Barrier C1, Ph 2	55	02-Dec-19	10-Mar-20																																									Construct Noise Barrier C1, Ph 2																																						
C02-1200	Construct Noise Barrier D1, Ph 2	10	12-Mar-20	27-Mar-20																																									Construct Noise Barrier D1, Ph 2																																						
C02-1090	Install Sign Foundations, Ph 2	15	27-Mar-20	22-Apr-20																																									Install Sign Foundations, Ph 2																																						
C02-1210	Construct Noise Barrier D2, Ph 2	10	30-Mar-20	16-Apr-20																																									Construct Noise Barrier D2, Ph 2																																						
C02-1100	Construct Barrier Wall, Ph 2	15	03-Apr-20	29-Apr-20																																									Construct Barrier Wall, Ph 2																																						

█ Remaining Level of Effort █ Remaining Work ◆ Milestone
█ Actual Work █ Critical Remaining Work



Activity ID	Activity Name	Original Duration	Start	Finish	2018												2019												2020												2021												2022											
					Oct	N	D	J	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	Jan	F	M	A	M	J	Jul		
C0271020	Finish Milestone, Ph 2 Fairfax / Washington	0		22-May-19													◆ Finish Milestone, Ph 2 Fairfax / Washington																																															
Fairfax Dr		31	22-Feb-19	15-Apr-19																																																												
C0271010	Install MOT, Ph 2 Fairfax / Lee	2	22-Feb-19	25-Feb-19													■ Install MOT, Ph 2 Fairfax / Lee																																															
C0271120	Remove and Replace Exist Curbs, Ph 2 Fairfax / Lee	5	26-Feb-19	04-Mar-19													■ Remove and Replace Exist Curbs, Ph 2 Fairfax / Lee																																															
C0271030	Install Signal Conduits, Ph 2 Fairfax / Lee	5	06-Mar-19	12-Mar-19													■ Install Signal Conduits, Ph 2 Fairfax / Lee																																															
C0271050	Install Signal Foundations, Ph 2 Fairfax / Lee	10	14-Mar-19	29-Mar-19													■ Install Signal Foundations, Ph 2 Fairfax / Lee																																															
C0271070	Install Signal Poles and Heads, Ph 2 Fairfax / Lee	5	01-Apr-19	05-Apr-19													■ Install Signal Poles and Heads, Ph 2 Fairfax / Lee																																															
C0271090	Install Roadside Equipment, Ph 2 Fairfax / Lee	5	01-Apr-19	05-Apr-19													■ Install Roadside Equipment, Ph 2 Fairfax / Lee																																															
C0271160	Mill-and-Overlay, Ph 2 Fairfax Dr	2	08-Apr-19	10-Apr-19													■ Mill-and-Overlay, Ph 2 Fairfax Dr																																															
C0271140	Install Detection Loops, Ph 2 Fairfax / Lee	2	12-Apr-19	15-Apr-19													■ Install Detection Loops, Ph 2 Fairfax / Lee																																															
Washington Blvd		29	22-Feb-19	10-Apr-19																																																												
C0271110	Install MOT, Ph 2 Washington / Lee	2	22-Feb-19	25-Feb-19													■ Install MOT, Ph 2 Washington / Lee																																															
C0271130	Remove and Replace Exist Curbs, Ph 2 Fairfax / Lee	5	26-Feb-19	04-Mar-19													■ Remove and Replace Exist Curbs, Ph 2 Fairfax / Lee																																															
C0271040	Install Signal Conduits, Ph 2 Washington / Lee	5	06-Mar-19	12-Mar-19													■ Install Signal Conduits, Ph 2 Washington / Lee																																															
C0271060	Install Signal Foundations, Ph 2 Washington / Lee	10	14-Mar-19	29-Mar-19													■ Install Signal Foundations, Ph 2 Washington / Lee																																															
C0271080	Install Signal Poles and Heads, Ph 2 Washington / Lee	5	01-Apr-19	05-Apr-19													■ Install Signal Poles and Heads, Ph 2 Washington / Lee																																															
C0271100	Install Roadside Equipment, Ph 2 Washington / Lee	5	01-Apr-19	05-Apr-19													■ Install Roadside Equipment, Ph 2 Washington / Lee																																															
C0271150	Install Detection Loops, Ph 2 Washington / Lee	2	08-Apr-19	10-Apr-19													■ Install Detection Loops, Ph 2 Washington / Lee																																															
Work Zone 5 - Option 1 - I-66 EDA Ramp		749	08-Jan-18	20-Sep-21																																																												
Design		149	08-Jan-18	02-Oct-18																																																												
D00-2910	EDA FABRICATION START - Early Girder Package	0	01-May-18														◆ EDA FABRICATION START - Early Girder Package																																															
D00-2960	EDA CONSTRUCTION START - Landscaping	0	19-Jul-18														◆ EDA CONSTRUCTION START - Landscaping																																															
D00-2920	EDA CONSTRUCTION START - ITS & Lighting	0	14-Sep-18														◆ EDA CONSTRUCTION START - ITS & Lighting																																															
D00-2950	EDA CONSTRUCTION START - Roadway & Drainage	0	15-Sep-18														◆ EDA CONSTRUCTION START - Roadway & Drainage																																															
D00-2930	EDA CONSTRUCTION START - Traffic Signals	0	21-Sep-18														◆ EDA CONSTRUCTION START - Traffic Signals																																															
D00-2940	EDA CONSTRUCTION START - Bridge	0	02-Oct-18														◆ EDA CONSTRUCTION START - Bridge																																															
GEOTECHNICAL		79	08-Jan-18	24-May-18																																																												
D00-2140	GEOTECHNICAL INVESTIGATION	15	08-Jan-18	01-Feb-18													■ GEOTECHNICAL INVESTIGATION																																															
D00-2150	GEOTECHNICAL REPORT PREPARATION	20	02-Feb-18	01-Mar-18													■ GEOTECHNICAL REPORT PREPARATION																																															
D00-2160	GEOTECHNICAL REPORT REVIEW & APPROVAL	60	02-Mar-18	24-May-18													■ GEOTECHNICAL REPORT REVIEW & APPROVAL																																															
SURVEY		20	08-Jan-18	02-Feb-18																																																												
D00-2170	VERIFICATION & UPDATES	20	08-Jan-18	02-Feb-18													■ VERIFICATION & UPDATES																																															
ROADWAY DESIGN		140	08-Jan-18	14-Sep-18																																																												
AWP		85	08-Jan-18	05-Jun-18																																																												
D00-2970	Prepare AWP Plans	40	08-Jan-18	02-Mar-18													■ Prepare AWP Plans																																															
D00-2980	QA/QC	10	05-Mar-18	16-Mar-18													■ QA/QC																																															
D00-2990	Submit AWP Plans for Review	1	19-Mar-18	19-Mar-18													■ Submit AWP Plans for Review																																															
D00-3000	VDOT Review	21	20-Mar-18	09-Apr-18													■ VDOT Review																																															
D00-3010	Incorporate VDOT comments	15	10-Apr-18	30-Apr-18													■ Incorporate VDOT comments																																															
D00-3020	QA/QC	10	01-May-18	14-May-18													■ QA/QC																																															
D00-3030	Submit AWP Plans	1	15-May-18	15-May-18													■ Submit AWP Plans																																															
D00-3040	VDOT/FHWA Review/Approval	21	16-May-18	05-Jun-18													■ VDOT/FHWA Review/Approval																																															
60% PLANS		85	08-Jan-18	05-Jun-18																																																												
D00-2180	Prepare 60% Plans	40	08-Jan-18	02-Mar-18													■ Prepare 60% Plans																																															
D00-2190	QA/QC	10	05-Mar-18	16-Mar-18													■ QA/QC																																															
D00-2200	Submit 60% Plans for Review	1	19-Mar-18	19-Mar-18													■ Submit 60% Plans for Review																																															
D00-2210	VDOT Review	21	20-Mar-18	09-Apr-18													■ VDOT Review																																															
D00-2220	Incorporate VDOT comments	15	10-Apr-18	30-Apr-18													■ Incorporate VDOT comments																																															
D00-2230	QA/QC	10	01-May-18	14-May-18													■ QA/QC																																															
D00-2240	Submit 60% Plans	1	15-May-18	15-May-18													■ Submit 60% Plans																																															
D00-2250	VDOT/FHWA Review/Approval	21	16-May-18	05-Jun-18													■ VDOT/FHWA Review/Approval																																															
FINAL ROADWAY PLANS		66	16-May-18	14-Sep-18																																																												
D00-2260	Prepare Final Plans	20	16-May-18	13-Jun-18													■ Prepare Final Plans																																															
D00-2270	QA/QC	10	14-Jun-18	27-Jun-18													■ QA/QC																																															
D00-2280	Submit Final Plans for Review	1	28-Jun-18	28-Jun-18													■ Submit Final Plans for Review																																															
D00-2290	VDOT Review	21	29-Jun-18	19-Jul-18													■ VDOT Review																																															
D00-2300	Incorporate VDOT comments	15	20-Jul-18	09-Aug-18													■ Incorporate VDOT comments																																															
D00-2310	QA/QC	10	10-Aug-18	23-Aug-18													■ QA/QC																																															
D00-2320	Submit Final Plans for Approval	1	24-Aug-18	24-Aug-18													■ Submit Final Plans for Approval																																															
D00-2330	VDOT/FHWA Approval	21	25-Aug-18	14-Sep-18													■ VDOT/FHWA Approval																																															

■ Remaining Level of Effort ■ Remaining Work ◆ Milestone
■ Actual Work ■ Critical Remaining Work



VDOT I-66 EB Widening Inside the Beltway					Section 4.7																									20-Sep-17																				
Activity ID	Activity Name	Original Duration	Start	Finish	2018							2019							2020							2021							2022																	
					Oct	N	D	J	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	Jan	F	M	A	M	J	Jul
BRIDGE DESIGN		149	08-Jan-18	01-Oct-18																																														
D00-2340	Prepare Preliminary Plan (Stage I)	20	08-Jan-18	02-Feb-18	■ Prepare Preliminary Plan (Stage I)																																													
D00-2350	QA/QC	10	05-Feb-18	16-Feb-18	■ QA/QC																																													
D00-2360	Submit Stage I Plans for Review	1	19-Feb-18	19-Feb-18	I Submit Stage I Plans for Review																																													
D00-2370	VDOT Review	21	20-Feb-18	12-Mar-18	■ VDOT Review																																													
D00-2380	Incorporate VDOT comments	10	13-Mar-18	26-Mar-18	■ Incorporate VDOT comments																																													
D00-2390	QA/QC	10	27-Mar-18	09-Apr-18	■ QA/QC																																													
D00-2400	VDOT Approves Stage I Bridge Plans	21	10-Apr-18	30-Apr-18	■ VDOT Approves Stage I Bridge Plans																																													
D00-2410	Prepare Final Plan (Stage II)	40	01-May-18	26-Jun-18	■ Prepare Final Plan (Stage II)																																													
D00-2420	QA/QC	10	27-Jun-18	11-Jul-18	■ QA/QC																																													
D00-2430	Submit Stage II Plans for Review	1	12-Jul-18	12-Jul-18	I Submit Stage II Plans for Review																																													
D00-2440	VDOT Review	21	13-Jul-18	02-Aug-18	■ VDOT Review																																													
D00-2450	Incorporate VDOT comments	20	03-Aug-18	30-Aug-18	■ Incorporate VDOT comments																																													
D00-2460	QA/QC	5	31-Aug-18	07-Sep-18	■ QA/QC																																													
D00-2470	Submit Stage II Plans for Approval	1	10-Sep-18	10-Sep-18	I Submit Stage II Plans for Approval																																													
D00-2480	VDOT/FHWA Approves Stage II Bridge Plans	21	11-Sep-18	01-Oct-18	■ VDOT/FHWA Approves Stage II Bridge Plans																																													
ITS & LIGHTING		65	15-May-18	13-Sep-18																																														
D00-2490	Prepare Plans	20	15-May-18	12-Jun-18	■ Prepare Plans																																													
D00-2500	QA/QC	10	13-Jun-18	26-Jun-18	■ QA/QC																																													
D00-2510	Submit ITS& Lighting Plans for Review	1	27-Jun-18	27-Jun-18	I Submit ITS& Lighting Plans for Review																																													
D00-2520	VDOT Review	21	28-Jun-18	18-Jul-18	■ VDOT Review																																													
D00-2530	Incorporate VDOT comments	20	19-Jul-18	15-Aug-18	■ Incorporate VDOT comments																																													
D00-2540	QA/QC	5	16-Aug-18	22-Aug-18	■ QA/QC																																													
D00-2550	Submit ITS& Lighting Plans for Approval	1	23-Aug-18	23-Aug-18	I Submit ITS& Lighting Plans for Approval																																													
D00-2560	VDOT ITS& Lighting Plan Approval	21	24-Aug-18	13-Sep-18	■ VDOT ITS& Lighting Plan Approval																																													
SIGNAL DESIGN		69	15-May-18	20-Sep-18																																														
D00-2570	Prepare Plans	20	15-May-18	12-Jun-18	■ Prepare Plans																																													
D00-2580	QA/QC	10	13-Jun-18	26-Jun-18	■ QA/QC																																													
D00-2590	Submit Plans for Review	1	27-Jun-18	27-Jun-18	I Submit Plans for Review																																													
D00-2600	VDOT& Arlington Review	28	28-Jun-18	25-Jul-18	■ VDOT& Arlington Review																																													
D00-2610	Incorporate comments	20	26-Jul-18	22-Aug-18	■ Incorporate comments																																													
D00-2620	QA/QC	5	23-Aug-18	29-Aug-18	■ QA/QC																																													
D00-2630	Submit Plans for Approval	1	30-Aug-18	30-Aug-18	I Submit Plans for Approval																																													
D00-2640	VDOT/FHWA Approval	21	31-Aug-18	20-Sep-18	■ VDOT/FHWA Approval																																													
LANDSCAPING		66	19-Mar-18	18-Jul-18																																														
D00-2650	Prepare Plans	20	19-Mar-18	13-Apr-18	■ Prepare Plans																																													
D00-2660	QA/QC	10	16-Apr-18	27-Apr-18	■ QA/QC																																													
D00-2670	Submit Landscaping Plans for Review	1	30-Apr-18	30-Apr-18	I Submit Landscaping Plans for Review																																													
D00-2680	VDOT Review	21	01-May-18	21-May-18	■ VDOT Review																																													
D00-2690	Incorporate VDOT comments	20	22-May-18	19-Jun-18	■ Incorporate VDOT comments																																													
D00-2700	QA/QC	5	20-Jun-18	26-Jun-18	■ QA/QC																																													
D00-2710	Submit Landscaping Plans for Approval	1	27-Jun-18	27-Jun-18	I Submit Landscaping Plans for Approval																																													
D00-2720	Landscaping Plan Approval	21	28-Jun-18	18-Jul-18	■ Landscaping Plan Approval																																													
Environmental		91	05-Mar-18	11-Jul-18																																														
D00-2740	Cultural Resources Phase I Clearances	40	05-Mar-18	27-Apr-18	■ Cultural Resources Phase I Clearances																																													
D00-2750	Hazardous Materials - Phase I ESA	40	05-Mar-18	27-Apr-18	■ Hazardous Materials - Phase I ESA																																													
D00-2760	Threatened and Endangered Species Clearances	40	05-Mar-18	27-Apr-18	■ Threatened and Endangered Species Clearances																																													
D00-2770	Noise/NADR	40	05-Mar-18	27-Apr-18	■ Noise/NADR																																													
D00-2780	Virginia Stormwater Management Permit (RDA Designers)	40	20-Mar-18	14-May-18	■ Virginia Stormwater Management Permit (RDA Designers)																																													
D00-2730	EQ200 - PS&E Authorization	40	15-May-18	11-Jul-18	■ EQ200 - PS&E Authorization																																													
Procurement		231	01-May-18	17-Dec-18																																														
PO1-1000	Procure Shop Drawing for Steel Girders - Opt 1 Bridge B686	30	01-May-18	30-May-18	■ Procure Shop Drawing for Steel Girders - Opt 1 Bridge B686																																													
PO1-1010	VDOT Review & Approve Shop Drawing for Steel Girder- Opt 1 Bridge B686	21	31-May-18	20-Jun-18	■ VDOT Review & Approve Shop Drawing for Steel Girder- Opt 1 Bridge B686																																													
PO1-1020	Fabricate Steel Girders- Opt 1 Bridge B686	180	21-Jun-18	17-Dec-18	■ Fabricate Steel Girders- Opt 1 Bridge B686																																													
Construction		172	10-Nov-20	20-Sep-21																																														
Phase 1		118	10-Nov-20	10-Jun-21																																														
CO111000	Start Milestone- Opt 1, Ph 1	0	10-Nov-20		◆ Start Milestone- Opt 1, Ph 1																																													
CO111010	Install E&S - Opt 1, Ph 1	2	12-Nov-20	13-Nov-20	I Install E&S - Opt 1, Ph 1																																													
CO111020	Install MOT, Temp Barrier & Attenuators Wall- Opt 1, Ph 1	2	16-Nov-20	17-Nov-20	I Install MOT, Temp Barrier & Attenuators Wall- Opt 1, Ph 1																																													
CO111030	Clear Area- Opt 1, Ph 1	5	19-Nov-20	25-Nov-20	■ Clear Area- Opt 1, Ph 1																																													

Remaining Level of Effort
 Remaining Work
 ◆ Milestone
 Actual Work
 Critical Remaining Work



Activity ID	Activity Name	Original Duration	Start	Finish	2018												2019												2020												2021												2022											
					Oct	N	D	J	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	Jan	F	M	A	M	J	Jul		
CO111040	Excavate and Embank- Opt 1, Ph 1	10	30-Nov-20	21-Dec-20																																																	█	Excavate and Embank- Opt 1, Ph 1										
CO111050	Install Drainage- Opt 1, Ph 1	5	22-Dec-20	29-Dec-20																																																	█	Install Drainage- Opt 1, Ph 1										
CO121330	Replace Noise Wall - Opt 1, Ph 1	10	22-Dec-20	07-Jan-21																																																	█	Replace Noise Wall - Opt 1, Ph 1										
CO111060	Control Subbase - Opt 1, Ph 1	5	30-Dec-20	07-Jan-21																																																	█	Control Subbase - Opt 1, Ph 1										
CO111070	Install ITS and Elect Conduits- Opt 1, Ph 1	5	08-Jan-21	15-Jan-21																																																	█	Install ITS and Elect Conduits- Opt 1, Ph 1										
CO111090	Install Sign Foundations- Opt 1, Ph 1	5	08-Jan-21	15-Jan-21																																																	█	Install Sign Foundations- Opt 1, Ph 1										
CO111080	Install Noise Barrier Foundations- Opt 1, Ph 1	5	18-Jan-21	25-Jan-21																																																	█	Install Noise Barrier Foundations- Opt 1, Ph 1										
CO111140	Install Noise Barrier Panels- Opt 1, Ph 1	5	26-Jan-21	02-Feb-21																																																	█	Install Noise Barrier Panels- Opt 1, Ph 1										
CO111320	Construct Barrier Wall - Opt 1, Ph 1	5	03-Feb-21	11-Feb-21																																																	█	Construct Barrier Wall - Opt 1, Ph 1										
CO111100	AC Paving and Temp Stripping- Opt 1, Ph 1	2	01-Mar-21	02-Mar-21																																																	█	AC Paving and Temp Stripping- Opt 1, Ph 1										
CO111110	Install Lighting / ITS- Opt 1, Ph 1	5	03-Mar-21	11-Mar-21																																																	█	Install Lighting / ITS- Opt 1, Ph 1										
CO111120	Install Guardrail- Opt 1, Ph 1	5	03-Mar-21	11-Mar-21																																																	█	Install Guardrail- Opt 1, Ph 1										
CO111130	Install Sign Structure- Opt 1, Ph 1	5	03-Mar-21	11-Mar-21																																																	█	Install Sign Structure- Opt 1, Ph 1										
CO111150	Finish Milestone- Opt 1, Ph 1	0	10-Jun-21																																																		◆	Finish Milestone- Opt 1, Ph 1										
Bridge B686 Rte 7		118	10-Nov-20	10-Jun-21																																																	◆	Start Milestone - Opt 1, Ph 1 Bridge B686										
CO111160	Start Milestone - Opt 1, Ph 1 Bridge B686	0	10-Nov-20																																																		◆	Start Milestone - Opt 1, Ph 1 Bridge B686										
CO111170	Site Prep - Opt 1, Ph 1 Bridge B686	5	12-Nov-20	19-Nov-20																																																	█	Site Prep - Opt 1, Ph 1 Bridge B686										
CO111410	Install Demo Shield - Opt 1, Ph 1 Bridge B686	10	12-Nov-20	30-Nov-20																																																	█	Install Demo Shield - Opt 1, Ph 1 Bridge B686										
CO111270	Install SOE - Opt 1, Ph 1 Bridge B686	10	20-Nov-20	07-Dec-20																																																	█	Install SOE - Opt 1, Ph 1 Bridge B686										
CO111180	Sawcut and Demo Deck Overhangs & Pier Cap (Partial) - Opt 1, Ph 1 Bridge B686	15	01-Dec-20	30-Dec-20																																																	█	Sawcut and Demo Deck Overhangs & Pier Cap (Partial) - Opt 1, Ph 1 Bridge B686										
CO111190	Embank Approaches - Opt 1, Ph 1 Bridge B686	5	31-Dec-20	08-Jan-21																																																	█	Embank Approaches - Opt 1, Ph 1 Bridge B686										
CO111400	Cure Deck - Opt 1, Ph 1 Bridge B686	7	19-May-21	25-May-21																																																	█	Cure Deck - Opt 1, Ph 1 Bridge B686										
CO111330	Construct Approach Roadway - Opt 1, Ph 1 Bridge B686	5	01-Jun-21	07-Jun-21																																																	█	Construct Approach Roadway - Opt 1, Ph 1 Bridge B686										
CO111350	Install Guardrail - Opt 1, Ph 1 Bridge B686	3	08-Jun-21	10-Jun-21																																																	█	Install Guardrail - Opt 1, Ph 1 Bridge B686										
CO111360	Finish Milestone - Opt 1, Ph 1 Bridge B686	0	10-Jun-21																																																		◆	Finish Milestone - Opt 1, Ph 1 Bridge B686										
Substructure		74	20-Nov-20	02-Apr-21																																																	█	Repair Substructure - Opt 1, Ph 1 Bridge B686										
CO111420	Repair Substructure - Opt 1, Ph 1 Bridge B686	5	20-Nov-20	30-Nov-20																																																	█	Repair Substructure - Opt 1, Ph 1 Bridge B686										
CO111200	Construct Foundation Abutment A - Opt 1, Ph 1 Bridge B686	10	11-Jan-21	26-Jan-21																																																	█	Construct Foundation Abutment A - Opt 1, Ph 1 Bridge B686										
CO111210	Construct Abutment A - Opt 1, Ph 1 Bridge B686	10	28-Jan-21	12-Feb-21																																																	█	Construct Abutment A - Opt 1, Ph 1 Bridge B686										
CO111240	Construct Foundation Abutment B - Opt 1, Ph 1 Bridge B686	10	28-Jan-21	12-Feb-21																																																	█	Construct Foundation Abutment B - Opt 1, Ph 1 Bridge B686										
CO111370	Cure Abutment A - Opt 1, Ph 1 Bridge B686	14	13-Feb-21	26-Feb-21																																																	█	Cure Abutment A - Opt 1, Ph 1 Bridge B686										
CO111220	Construct Foundation Pier - Opt 1, Ph 1 Bridge B686	10	15-Feb-21	02-Mar-21																																																	█	Construct Foundation Pier - Opt 1, Ph 1 Bridge B686										
CO111250	Construct Abutment B - Opt 1, Ph 1 Bridge B686	10	15-Feb-21	02-Mar-21																																																	█	Construct Abutment B - Opt 1, Ph 1 Bridge B686										
CO111230	Construct Pier - Opt 1, Ph 1 Bridge B686	10	03-Mar-21	19-Mar-21																																																	█	Construct Pier - Opt 1, Ph 1 Bridge B686										
CO111390	Cure Abutment B - Opt 1, Ph 1 Bridge B686	14	03-Mar-21	16-Mar-21																																																	█	Cure Abutment B - Opt 1, Ph 1 Bridge B686										
CO111380	Cure Pier - Opt 1, Ph 1 Bridge B686	14	20-Mar-21	02-Apr-21																																																	█	Cure Pier - Opt 1, Ph 1 Bridge B686										
CO121340	Construct Pier Protection - Opt 1, Ph 1 Bridge B686	8	22-Mar-21	01-Apr-21																																																	█	Construct Pier Protection - Opt 1, Ph 1 Bridge B686										
Superstructure		103	01-Dec-20	03-Jun-21																																																	█	Repair Superstructure - Opt 1, Ph 1 Bridge B686										
CO111430	Repair Superstructure - Opt 1, Ph 1 Bridge B686	5	01-Dec-20	07-Dec-20																																																	█	Repair Superstructure - Opt 1, Ph 1 Bridge B686										
CO111260	Erect Steel Girders & Diaphragms - Opt 1, Ph 1 Bridge B686	10	05-Apr-21	20-Apr-21																																																	█	Erect Steel Girders & Diaphragms - Opt 1, Ph 1 Bridge B686										
CO111280	Construct Deck - Opt 1, Ph 1 Bridge B686	15	22-Apr-21	18-May-21																																																	█	Construct Deck - Opt 1, Ph 1 Bridge B686										
CO111300	Widen Approach Slab - Opt 1, Ph 1 Bridge B686	6	19-May-21	28-May-21																																																	█	Widen Approach Slab - Opt 1, Ph 1 Bridge B686										
CO111450	Demo and Install Closure Joint - Opt 1, Ph 1 Bridge B686	5	19-May-21	26-May-21																																																	█	Demo and Install Closure Joint - Opt 1, Ph 1 Bridge B686										
CO111290	Construct Parapets - Opt 1, Ph 1 Bridge B686	5	26-May-21	03-Jun-21																																																	█	Construct Parapets - Opt 1, Ph 1 Bridge B686										
CO111440	Mill-and-Overlay Bridge Deck- Opt 1, Ph 1	2	28-May-21	01-Jun-21																																																	█	Mill-and-Overlay Bridge Deck- Opt 1, Ph 1										
Underdeck		5	19-May-21	26-May-21																																																	█	Install Underdeck Conduits - Opt 1, Ph 1 Bridge B686										
CO111310	Install Underdeck Conduits - Opt 1, Ph 1 Bridge B686	5	19-May-21	26-May-21																																																	█	Install Underdeck Conduits - Opt 1, Ph 1 Bridge B686										
CO111340	Install Slope Paving - Opt 1, Ph 1 Bridge B686	5	19-May-21	26-May-21																																																	█	Install Slope Paving - Opt 1, Ph 1 Bridge B686										
Phase 2		54	11-Jun-21	20-Sep-21																																																	◆	Start Milestone - Opt 1, Ph 2										
CO121000	Start Milestone - Opt 1, Ph 2	0	11-Jun-21																																																		◆	Start Milestone - Opt 1, Ph 2										
CO121070	Install E&S - Opt 1, Ph 2	2	11-Jun-21	14-Jun-21																																																	█	Install E&S - Opt 1, Ph 2										
CO121080	Install MOT, Temp Barrier & Attenuators Wall- Opt 1, Ph 2	2	17-Jun-21	18-Jun-21																																																	█	Install MOT, Temp Barrier & Attenuators Wall- Opt 1, Ph 2										
CO121090	Clear Area- Opt 1, Ph 2	5	21-Jun-21	01-Jul-21																																																	█	Clear Area- Opt 1, Ph 2										
CO121100	Excavate and Embank- Opt 1, Ph 2	10	02-Jul-21	20-Jul-21																																																	█	Excavate and Embank- Opt 1, Ph 2										
CO121110	Install Drainage- Opt 1, Ph 2	5	22-Jul-21	30-Jul-21																																																	█	Install Drainage- Opt 1, Ph 2										
CO121120	Control Subbase - Opt 1, Ph 2	5	02-Aug-21	06-Aug-21																																																	█	Control Subbase - Opt 1, Ph 2										
CO121130	Install ITS and Elect Conduits- Opt 1, Ph 2	5	09-Aug-21	16-Aug-21																																																	█	Install ITS and Elect Conduits- Opt 1, Ph 2										
CO121140	Install Sign Foundations- Opt 1, Ph 2	5	09-Aug-21	16-Aug-21																																																	█	Install Sign Foundations- Opt 1, Ph 2										
CO121150	Construct Barrier Wall - Opt 1, Ph 2	5	09-Aug-21	16-Aug-21																																																	█	Construct Barrier Wall - Opt 1, Ph 2										
CO121010	Mill-and-Overlay Exist Rdwy - Opt 1, Ph 2	5	17-Aug-21	26-Aug-21																																																	█	Mill-and-Overlay Exist Rdwy - Opt 1, Ph 2										

█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
█ Actual Work
 █ Critical Remaining Work



ATTACHMENT 4.0.1.1
TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

ATTACHMENT 4.0.1.1
I-66 EASTBOUND WIDENING INSIDE THE BELTWAY
TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Offerors shall furnish a copy of this Technical Proposal Checklist, with the page references added, with the Technical Proposal.

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Technical Proposal Checklist and Contents	Attachment 4.0.1.1	Section 4.0.1.1	no	Appendix Attachment 4.0.1.1
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	no	Appendix Attachment 3.6
Letter of Submittal	NA	Sections 4.1		Pages 1 & 2
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	yes	Page 1
Identify the full legal name and address of Offeror	NA	Section 4.1.1	yes	Page 1
Authorized representative's original signature	NA	Section 4.1.1	yes	Page 2
Declaration of intent	NA	Section 4.1.2	yes	Page 1
120 day declaration	NA	Section 4.1.3	yes	Page 1
Point of Contact information	NA	Section 4.1.4	yes	Page 1
Principal Officer information	NA	Section 4.1.5	yes	Page 2
Interim Milestone and Final Completion Date(s)	NA	Section 4.1.6	yes	Page 2
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	no	Page 2 & Appendix Attachment 9.3.1

ATTACHMENT 4.0.1.1
I-66 EASTBOUND WIDENING INSIDE THE BELTWAY
TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	no	Page 2 & Appendix Attachments 11.8.6(a) & 11.8.6(b)
Offeror's Qualifications	NA	Section 4.2		Pages 3-4
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2.1	yes	Page 3
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.2	yes	Pages 3 & 4
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.2	yes	Page 3
Design Concept	NA	Section 4.3		Pages 5-16
Conceptual Roadway Plans and description	NA	Section 4.3.1.1	yes	Pages 6-12 Volume II – Pages 1-27
Conceptual Structural Plans and description	NA	Section 4.3.1.2	yes	Pages 12-16 Volume II – Pages 28-43

ATTACHMENT 4.0.1.1
I-66 EASTBOUND WIDENING INSIDE THE BELTWAY
TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Project Approach	NA	Section 4.4		Pages 17-33
Environmental Management	NA	Section 4.4.1	yes	Pages 17-20
Utilities-Structures	NA	Section 4.4.2	yes	Pages 21-27
Geotechnical	NA	Section 4.4.3	yes	N/A
Quality Assurance/ Quality Control (QA/QC)	NA	Section 4.4.4 4.4.3	yes	Pages 27-33
Construction of Project	NA	Section 4.5		Pages 34-56
Sequence of Construction	NA	Section 4.5.1	yes	Pages 34-48
Transportation Management Plan	NA	Section 4.5.2	yes	Pages 48-56
Disadvantaged Business Enterprises (DBE)	NA	Section 4.6		
Written statement of percent DBE participation	NA	Section 4.6	yes	Page 57
Proposal Schedule	NA	Section 4.7		Volume I Pages S1-S25
Proposal Schedule	NA	Section 4.7	no	Pages S1 & S12-S25
Proposal Schedule Narrative	NA	Section 4.7	no	Page S1-S11
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.7	no	CD ROM

ATTACHMENT 3.6
FORM C-78-RFP

ATTACHMENT 3.6**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

RFP NO. C00108424DB92
 PROJECT NO.: NHPP-066-1(356)

ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of RFP – April 7, 2017
(Date)
2. Cover letter of Addendum #1- June 1, 2017
(Date)
3. Cover letter of Addendum #2- July 11, 2017
(Date)
4. Cover letter of Addendum #3- August 21, 2017
(Date)
5. Cover letter of Addendum #4- September 6, 2017
(Date)



 SIGNATURE

9/27/2017

 DATE

Ali Alkouraishi

PRINTED NAME

Pursuit Manager

TITLE

**ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT**

ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this “Agreement”) is made and entered into as of this 27th day of September, 2017, by and between the Virginia Department of Transportation (“VDOT”), and The Lane Construction Corporation (“Offeror”).

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications (“SOQs”) pursuant to VDOT’s November 18, 2017 (Addendum #1 December 16, 2016) Request for Qualifications (“RFQ”) and was invited to submit proposals in response to a Request for Proposals (“RFP”) for the **I-66 Eastbound Widening Inside the Beltway Project No. 0066-96A-417, P101, R201, C501** (“Project”), under a design-build contract with VDOT (“Design-Build Contract”); and

WHEREAS, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror’s proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively “Offeror’s Intellectual Property”); and

WHEREAS, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror’s Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP (“Offeror’s Proposal”), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

WHEREAS, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

1. **VDOT's Rights in Offeror's Intellectual Property.** Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's Intellectual Property are protected. The rights conferred herein to VDOT include, without limitation, VDOT's ability to use Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.

2. **Exclusions from Offeror's Intellectual Property.** Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.

3. **Proposal Payment.** VDOT agrees to pay Offeror the lump sum amount of **Forty thousand dollars and 00/100 Dollars (\$40,000.00)** ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

4. **Payment Due Date.** Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.

5. **Effective Date of this Agreement.** The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

6. **Indemnity**. Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity (“Claims”) of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror’s obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives or contractors.

7. **Assignment**. Offeror shall not assign this Agreement, without VDOT's prior written consent, which consent may be given or withheld in VDOT’s sole discretion. Any assignment of this Agreement without such consent shall be null and void.

8. **Authority to Enter into this Agreement**. By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror’s Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror’s Intellectual Property, free and clear of all liens, claims and encumbrances.

9. **Miscellaneous**.

a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.

b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.

c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.

d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

e. This Agreement shall be governed by and construed in accordance with the laws

of the Commonwealth of Virginia.

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.


VIRGINIA DEPARTMENT OF TRANSPORTATION

By: _____

Name: _____

Title: _____

The Lane Construction Corporation

By:  _____

Name: Ali Alkouraishi

Title: Pursuit Manager

ATTACHMENT 11.8.6(a)
CERTIFICATION REGARDING DEBARMENT FORMS

ATTACHMENT 11.8.6(a)
CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature _____ Date 9/27/2017 Title Pursuit Manager

The Lane Construction Corporation
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT FORMS

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

**Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501,
B686**

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



8/10/2017

Director of Design-Build Services

Signature

Date

Title

Rinker Design Associates, P.C.

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

**Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501,
B686**

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature Date

Senior Vice President

Title

HDR Engineering, Inc.

Name of Firm

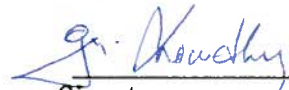
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

 _____ Signature	9/13/2017 _____ Date	PRINCIPAL _____ Title
CES CONSULTING LLC _____ Name of Firm		

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

8/10/2017

Date

Vice President

Title

DMY Engineering Consultants Inc.

Name of Firm

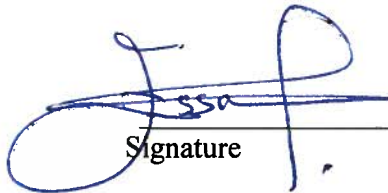
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501,
B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.


Signature _____

9/13/2017

Date


Title


Name of Firm

LANE

14500 AVION PARKWAY
SUITE 200
CHANTILLY, VA 20151
703.222.5670

www.laneconstruct.com



TECHNICAL PROPOSAL - VOLUME II

**I-66 EASTBOUND
WIDENING INSIDE
THE BELTWAY**

A DESIGN-BUILD PROJECT

**FROM: DULLES CONNECTOR ROAD (ROUTE 267)
TO: FAIRFAX DRIVE (ROUTE 237)**

FAIRFAX COUNTY AND ARLINGTON COUNTY, VIRGINIA

STATE PROJECT NO.:

I-66 EBW (0066-96A-417, P101, R201, C501), UPC 108424

I-66 EDA (0066-96A-493, P101, C501, B686), UPC 110629

FEDERAL PROJECT NO.: NHPP-066-1(356)

CONTRACT ID NO.: C00108424DB92

SEPTEMBER 27, 2017

PREPARED FOR:

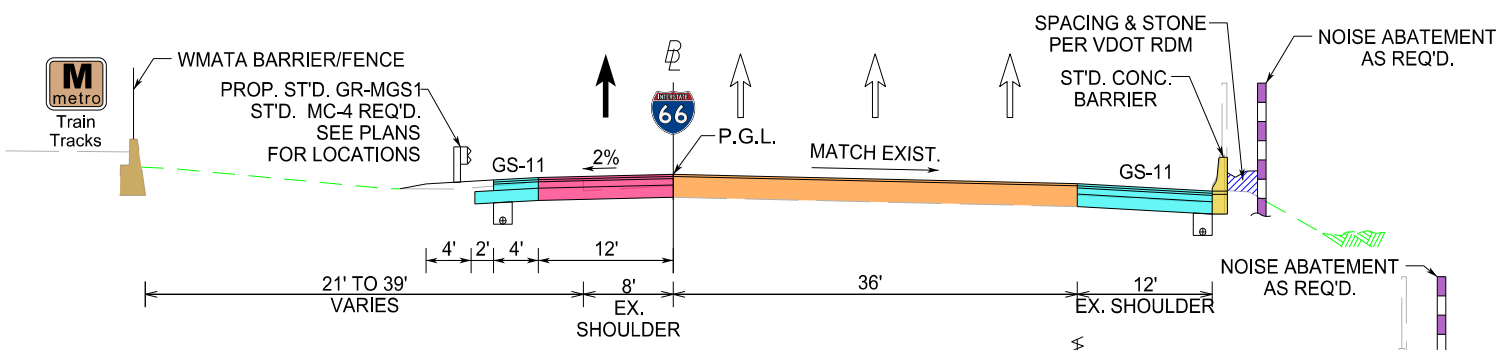
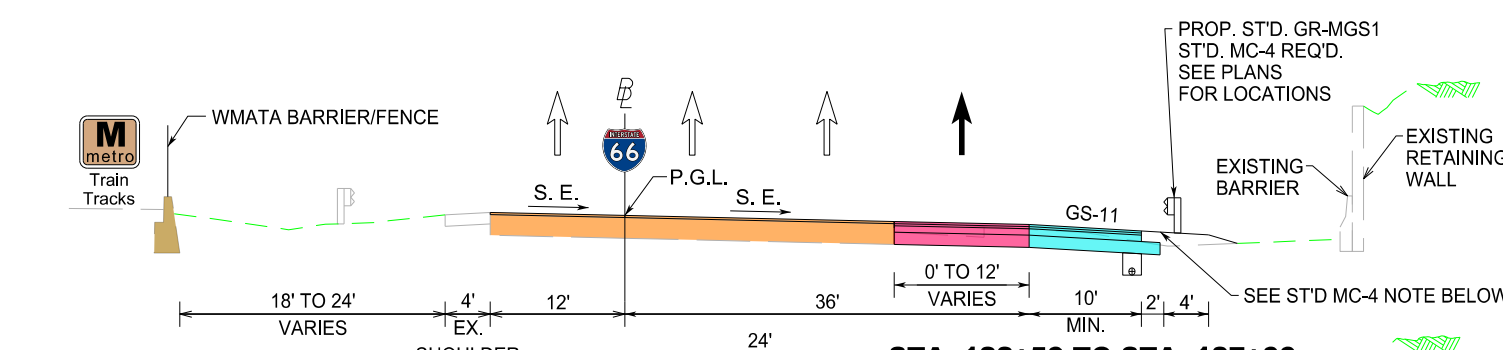
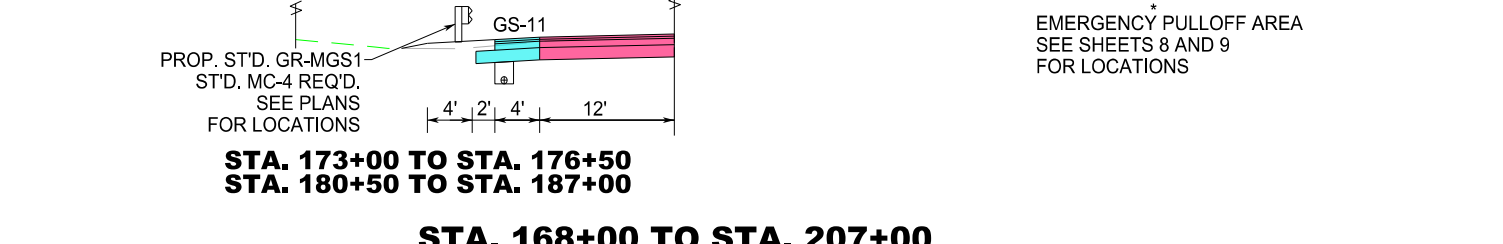
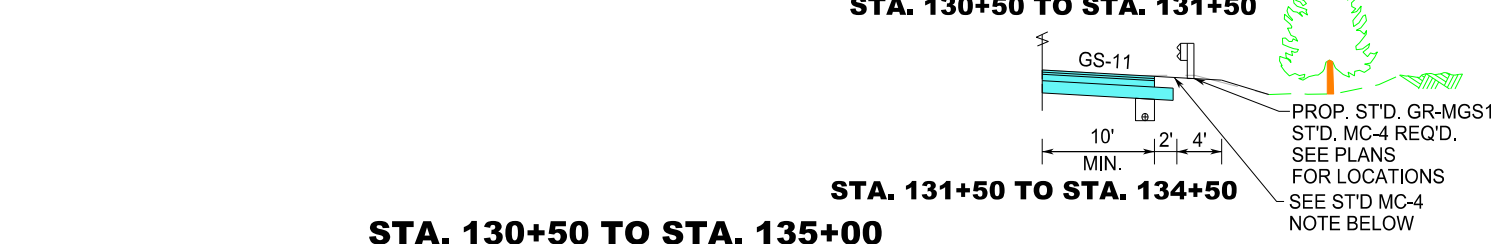
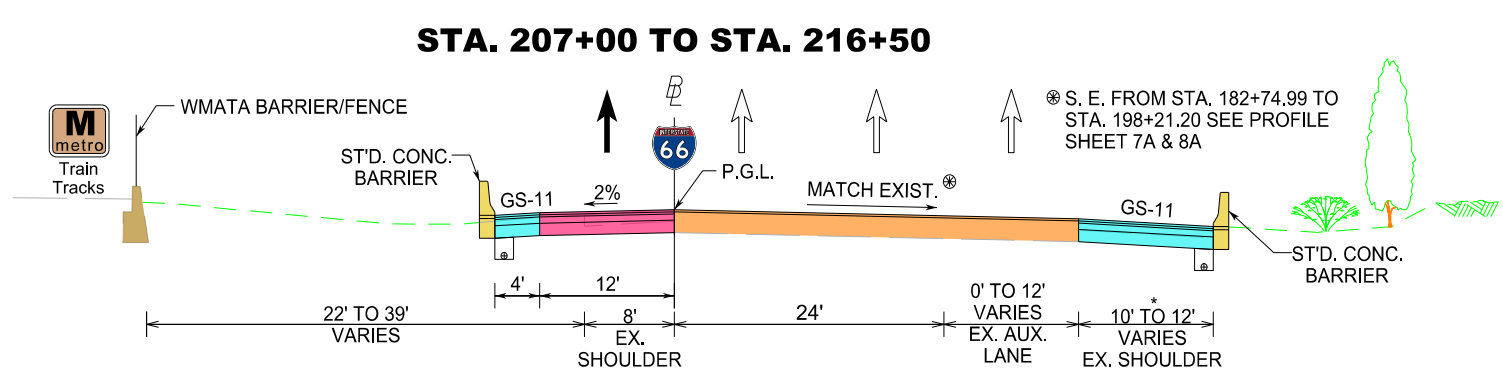
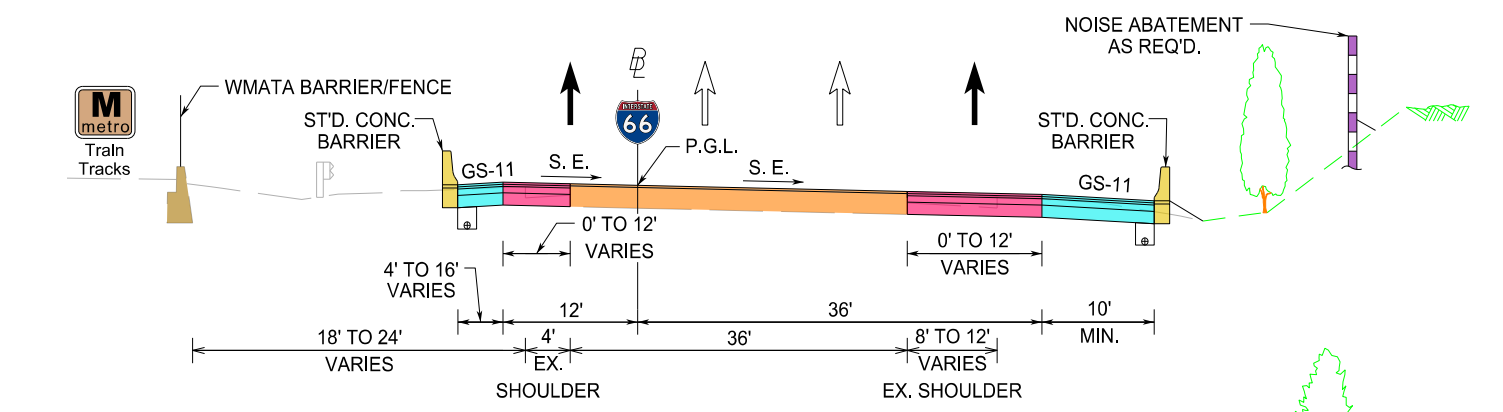
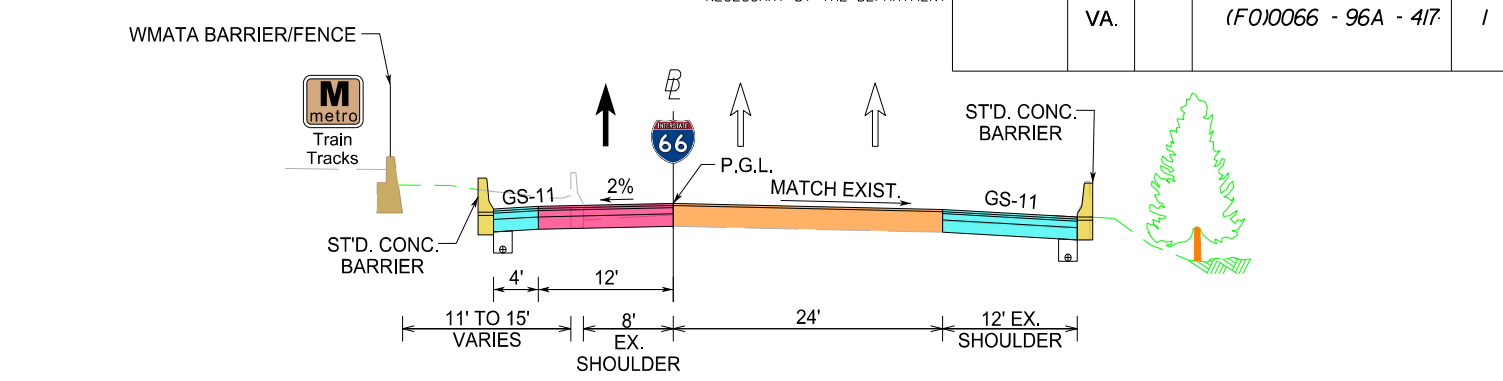
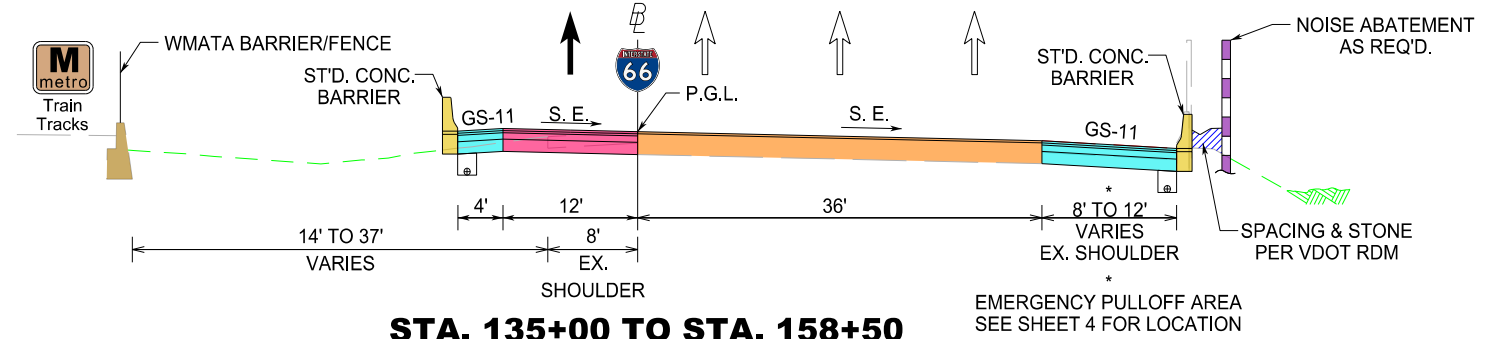


SUBMITTED BY:



BASE SCOPE TYPICAL SECTIONS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
		VA.		(F0)0066 - 96A - 417	1



Mill/Overlay Mainline: Begin Project to 122+50 per RFP Plans

STA. 122+50 TO STA. 130+50

NOT TO SCALE NOT TO SCALE

STA. 158+50 TO STA. 168+00

LEGEND

- FULL DEPTH PAVEMENT (MAINLINE)
 - FULL DEPTH SHOULDERS
 - MILLING/RESURFACING
- SURFACE:** 2" ASPHALT CONC., TY. SM-12.5E
INTERMEDIATE: 2" ASPHALT CONC., TY. IM-19.0A
BASE: 6" ASPHALT CONC., TY. BM-25.0A
SUBBASE #1: 6" AGGR. BASE MAT'L, TY. I, SIZE 21A PUGMILL MIXED WITH 4% BY WT HYDRAULIC CEMENT (EXTENDED A MIN. 1' BEYOND EDGE OF MAINLINE PVMT)
SUBBASE #2: 6" CEMENT STABILIZED SUBGRADE WITH 12% HYDRAULIC CEMENT BY VOLUME EXTENDED 1' BEYOND EDGE OF MAINLINE PVMT.
 (SEE NOTES ABOUT UNDERDRAIN PLACEMENT/TYPE)
- MILLING:** 2" DEPTH OF MILLING REQUIRED
RESURFACING: 2" ASPHALT CONC. TY. SM-12.5E

- NOTES:**
- FINAL PAVEMENT SECTIONS WILL BE VERIFIED BY THE LANE TEAM WITH THE MINIMUM BEING AS SHOWN & REQUIRED BY RFP.
 - UNDERDRAINS WILL BE PROVIDED IN ACCORDANCE WITH SECTION 2.6.1 OF THE RFP.
 - SUBBASE #2 MAY BE REPLACED WITH AN ADDITIONAL LAYER OF SUBBASE #1 WHEN WIDTH OF INSTALLATION IS 10 FT. OR LESS, PER RFP SECTION 2.6.1.
 - WHEN LIQUID ASPHALT IS UTILIZED FOR CURING, IT WILL COMPLY WITH VDOT STANDARDS AND SECTION 2.6.1 OF RFP.
 - ST'D MC-4 WILL BE IMPLEMENTED AS REQUIRED BY VDOT RDM, WHERE NECESSARY.

Note: Landscaping to be Provided per RFP Requirements

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

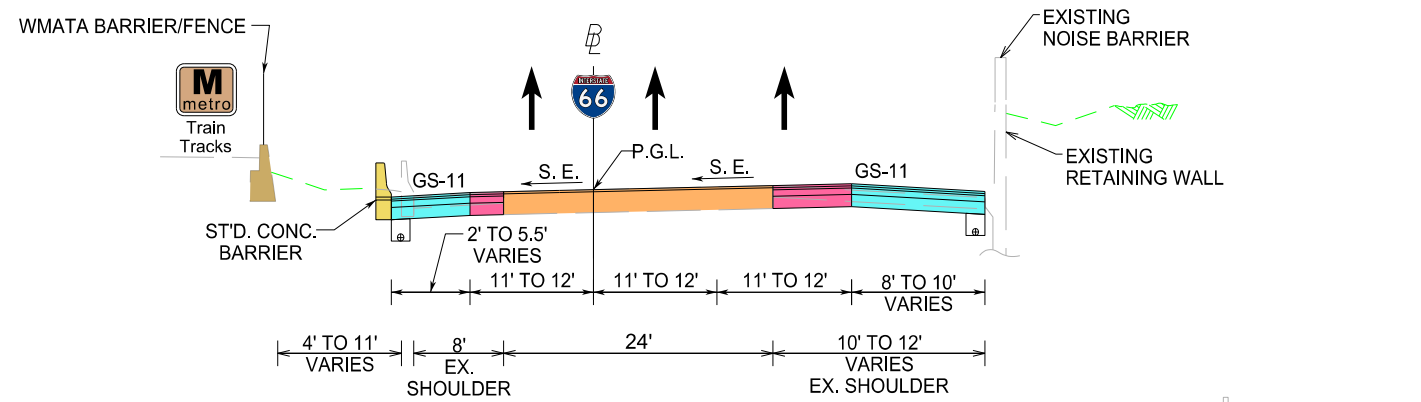
rda

PROJECT: 0066-96A-417
 SHEET NO.: 1

BASE SCOPE TYPICAL SECTIONS

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

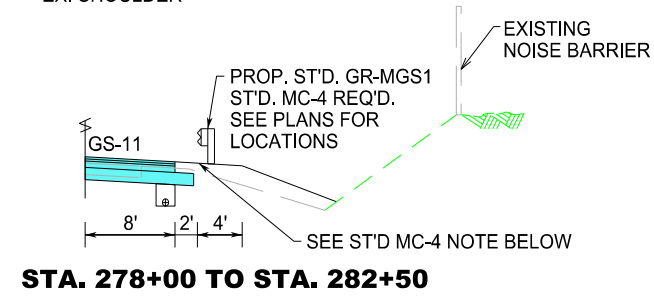
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		(F0)0066 - 96A - 417	2



STA. 249+50 TO STA. 258+50
MAINLINE = TWO 11' LANES/12' OUTSIDE LANE

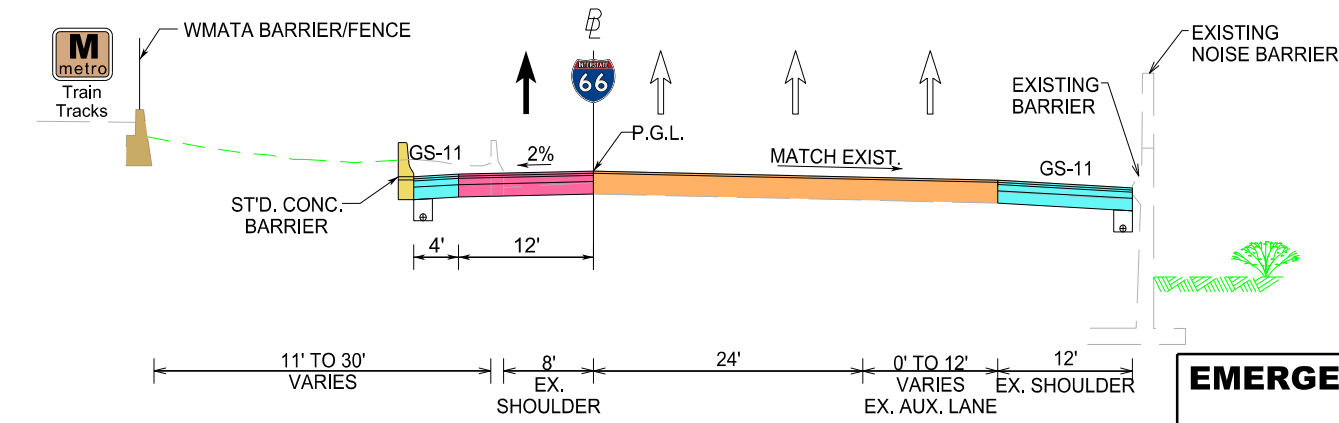
STA. 258+50 TO STA. 273+50
MAINLINE = THREE 11' LANES

STA. 273+50 TO STA. 281+50
MAINLINE = TWO 11' LANES/12' OUTSIDE LANE

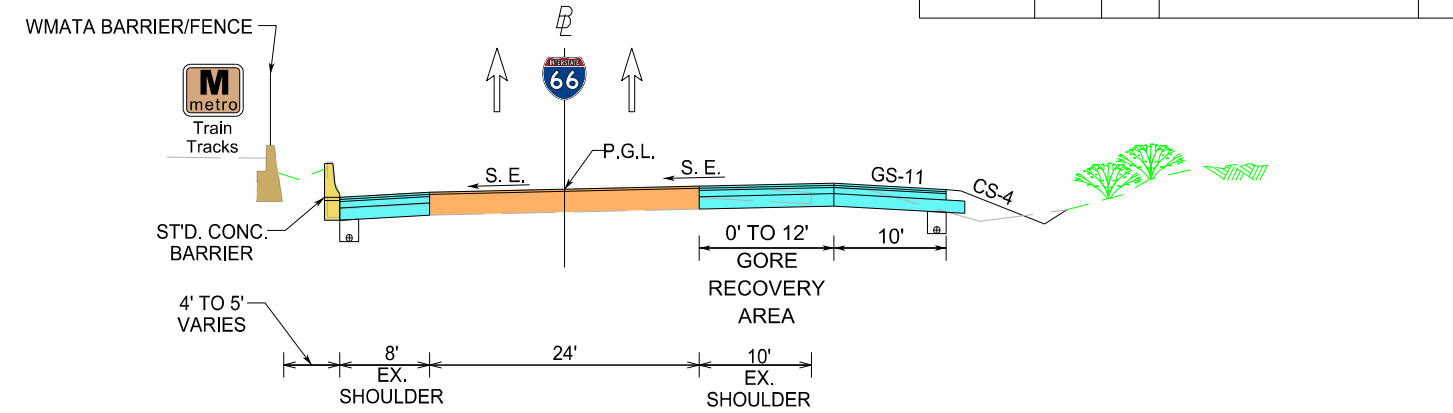


STA. 278+00 TO STA. 282+50

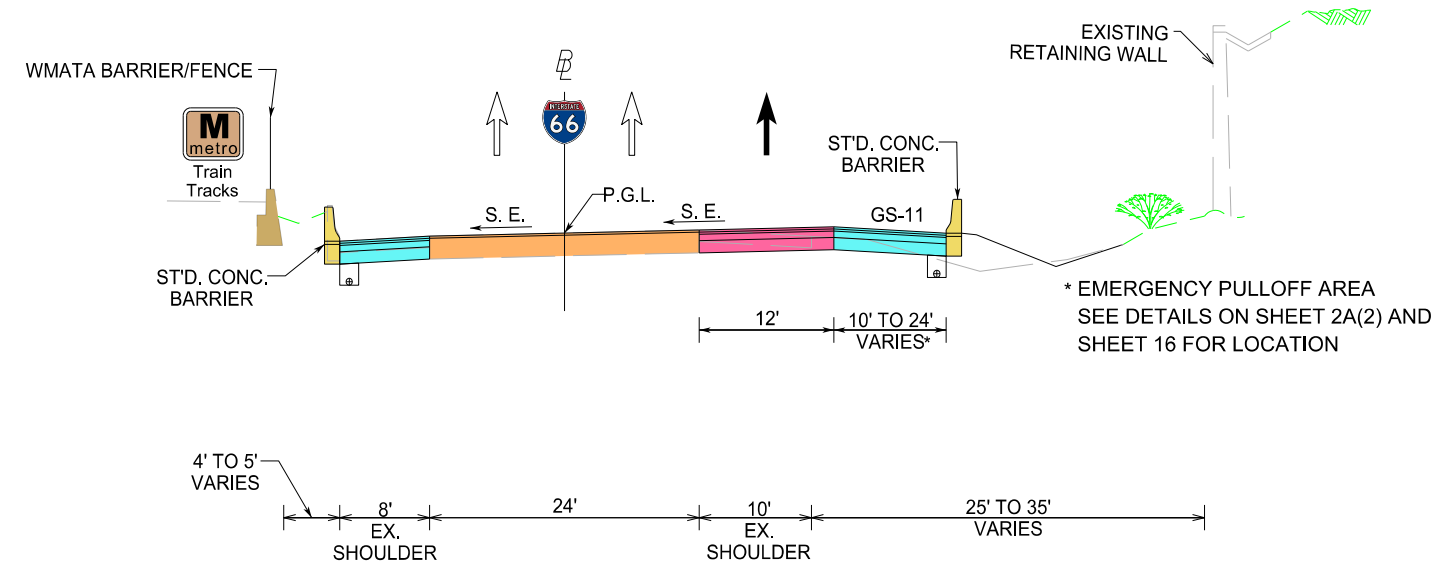
STA. 249+00 TO STA. 282+50
MAINLINE = THREE 12' LANES, EXCEPT AS NOTED



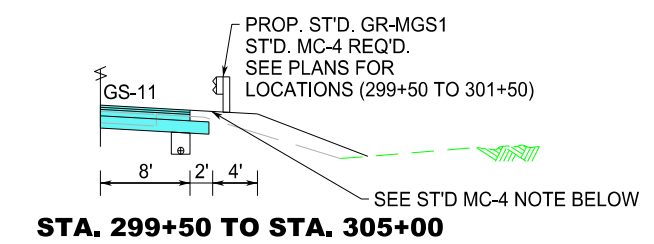
STA. 216+50 TO STA. 249+00



STA. 307+00 TO STA. 312+42



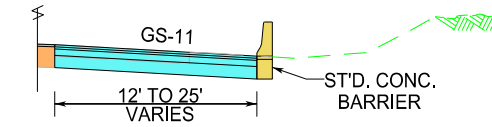
STA. 282+50 TO STA. 307+00



STA. 299+50 TO STA. 305+00

EMERGENCY PULLOFF AREA(S)

NOTE: STA. 193+50 TO 199+00 INCLUDE PROP. RETAINING WALL SEE PLANS FOR LOCATIONS



STA. 193+00 TO STA. 200+00
STA. 292+50 TO STA. 299+50

NOT TO SCALE

NOT TO SCALE

LEGEND

- FULL DEPTH PAVEMENT (MAINLINE)
- FULL DEPTH SHOULDERS & PROP. GORE AREAS

SURFACE: 2" ASPHALT CONC., TY. SM-12.5E
INTERMEDIATE: 2" ASPHALT CONC., TY. IM-19.0A
BASE: 6" ASPHALT CONC., TY. BM-25.0A
SUBBASE #1: 6" AGGR. BASE MAT'L, TY. I, SIZE 21A PUGMILL MIXED WITH 4% BY WT HYDRAULIC CEMENT (EXTENDED A MIN. 1' BEYOND EDGE OF MAINLINE PVMT)
SUBBASE #2: 6" CEMENT STABILIZED SUBGRADE WITH 12% HYDRAULIC CEMENT BY VOLUME EXTENDED 1' BEYOND EDGE OF MAINLINE PVMT.

MILLING/RESURFACING

MILLING: 2" DEPTH OF MILLING REQUIRED
RESURFACING: 2" ASPHALT CONC. TY. SM-12.5E

NOTES:

- FINAL PAVEMENT SECTIONS WILL BE VERIFIED BY THE LANE TEAM WITH THE MINIMUM BEING AS SHOWN & REQUIRED BY RFP.
- UNDERDRAINS WILL BE PROVIDED IN ACCORDANCE WITH SECTION 2.6.1 OF THE RFP.
- SUBBASE #2 MAY BE REPLACED WITH AN ADDITIONAL LAYER OF SUBBASE #1 WHEN WIDTH OF INSTALLATION IS 10 FT. OR LESS, PER RFP SECTION 2.6.1.
- WHEN LIQUID ASPHALT IS UTILIZED FOR CURING, IT WILL COMPLY WITH VDOT STANDARDS AND SECTION 2.6.1 OF RFP.
- ST'D MC-4 WILL BE IMPLEMENTED AS REQUIRED BY VDOT RDM, WHERE NECESSARY.

Note: Landscaping to be Provided per RFP Requirements

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

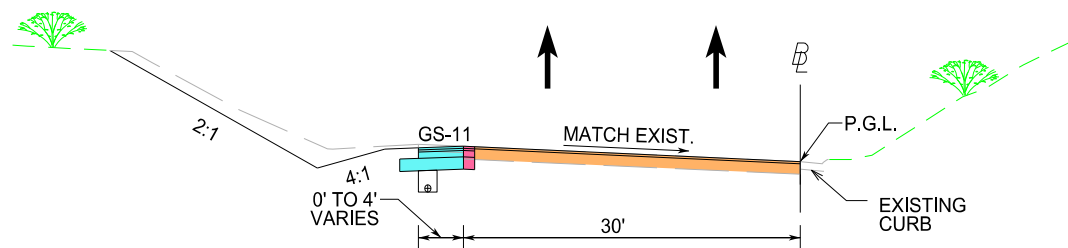
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PROJECT: 0066-96A-417
 SHEET NO.: 2

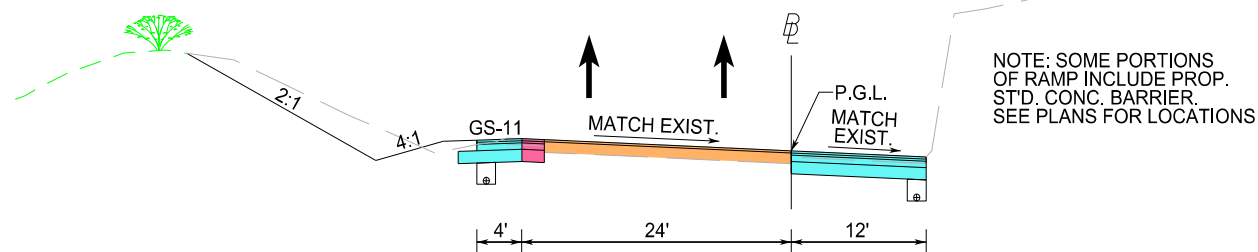
BASE SCOPE TYPICAL SECTIONS

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

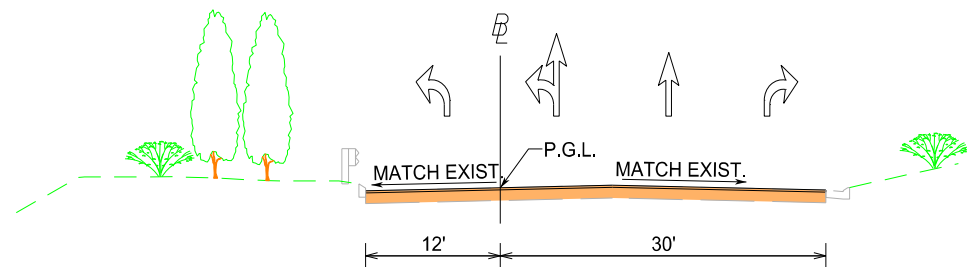
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.		(F0)0066 - 96A - 417	3



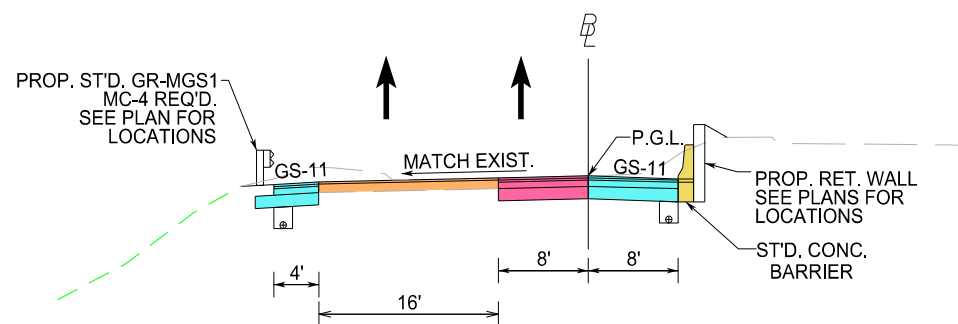
**RAMP 2 (FAIRFAX DRIVE)
STA. 26+87 TO STA. 30+00**



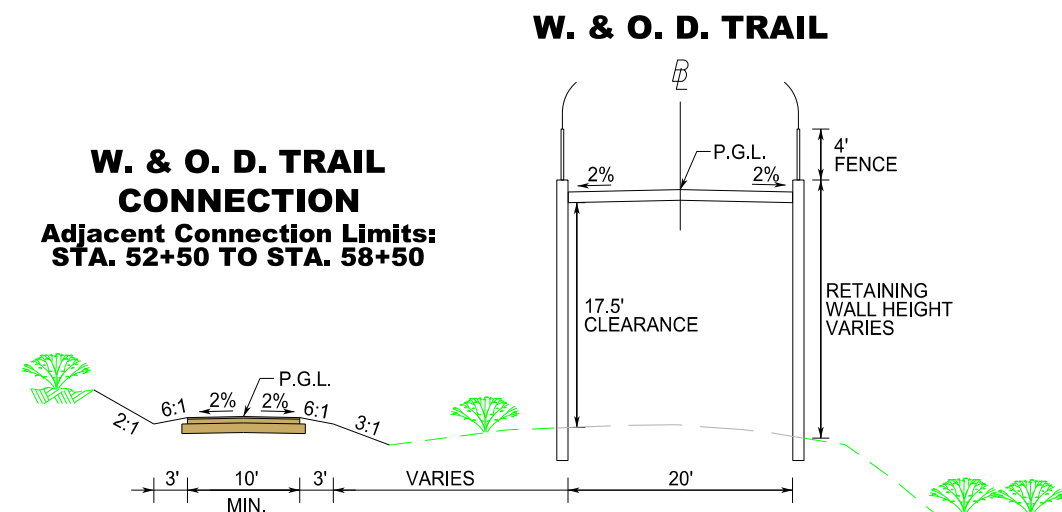
**RAMP 2 (FAIRFAX DR)
STA. 22+00 TO STA. 26+87**



**RAMP 1 (LEE HIGHWAY)
STA. 18+50 TO STA. 21+57**

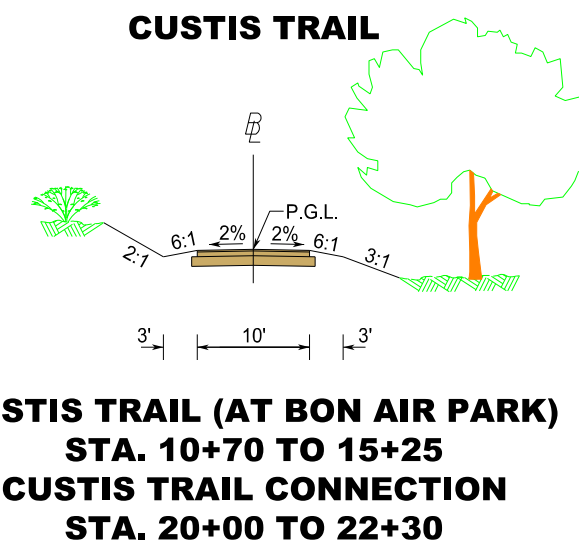


**RAMP 1 (LEE HIGHWAY)
STA. 12+00 TO STA. 18+50**



**W. & O. D. TRAIL
CONNECTION
Adjacent Connection Limits:
STA. 52+50 TO STA. 58+50**

**W. & O. D. TRAIL (FAIRFAX DR)
STA. 51+50 TO STA. 55+26.91
STA. 61+50 TO STA. 63+00
SEE BRIDGE PLANS SEPARATELY
FOR ADDITIONAL DETAILS**



**CUSTIS TRAIL
(AT BON AIR PARK)
STA. 10+70 TO 15+25
CUSTIS TRAIL CONNECTION
STA. 20+00 TO 22+30**

NOT TO SCALE NOT TO SCALE

LEGEND

- FULL DEPTH PAVEMENT
- FULL DEPTH SHOULDERS
- SURFACE: 2" ASPHALT CONC., TY. SM-12.5E
- INTERMEDIATE: 2" ASPHALT CONC., TY. IM-19.0A
- BASE: 6" ASPHALT CONC., TY. BM-25.0A
- SUBBASE #1: 6" AGGR. BASE MAT'L, TY. I, SIZE 21A
PUGMILL MIXED WITH 4% BY WT HYDRAULIC CEMENT
(EXTENDED A MIN. 1' BEYOND EDGE OF PVMT)
- SUBBASE #2: 6" CEMENT STABILIZED SUBGRADE WITH 12% HYDRAULIC CEMENT
BY VOLUME EXTENDED 1' BEYOND EDGE OF PVMT.

- MILLING/RESURFACING
- MILLING: 2" DEPTH OF MILLING REQUIRED
- RESURFACING: 2" ASPHALT CONC. TY. SM-12.5E

- MULTI-PURPOSE TRAILS
- SURFACE: 1" ASPHALT CONC. TY. SM-4.75A
- INTERMEDIATE: 3" ASPHALT CONC. TY. IM-19.0A
- BASE: 6" AGGR. BASE MAT'L, TY. I, SIZE 21B
(EXTENDED 6" BEYOND EDGE OF SURFACE)

NOTES:

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- UNDERDRAINS WILL BE PROVIDED IN ACCORDANCE WITH SECTION 2.6.1 OF THE RFP.
- SUBBASE #2 MAY BE REPLACED WITH AN ADDITIONAL LAYER OF SUBBASE #1 WHEN WIDTH OF INSTALLATION IS 10 FT. OR LESS, PER RFP SECTION 2.6.1.
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- ST'D MC-4 WILL BE IMPLEMENTED AS REQUIRED BY VDOT RDM, WHERE NECESSARY.

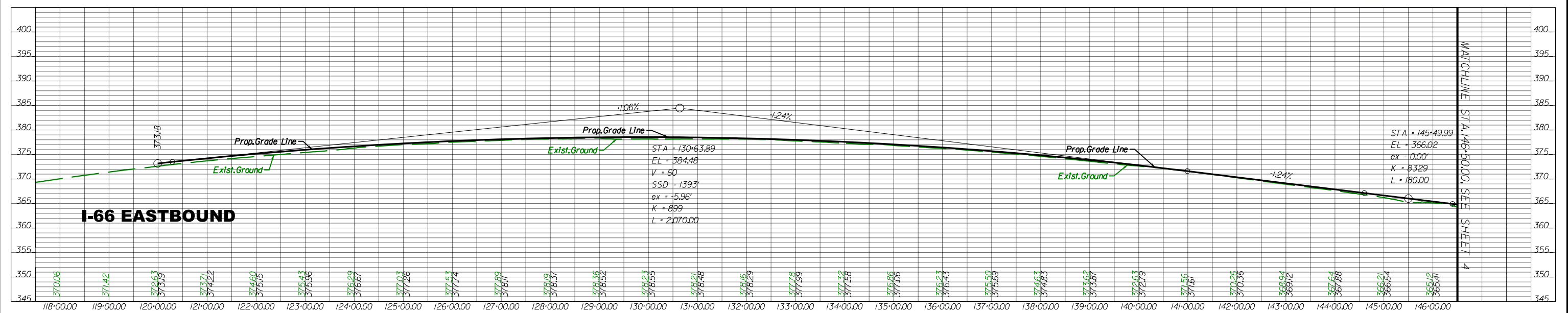
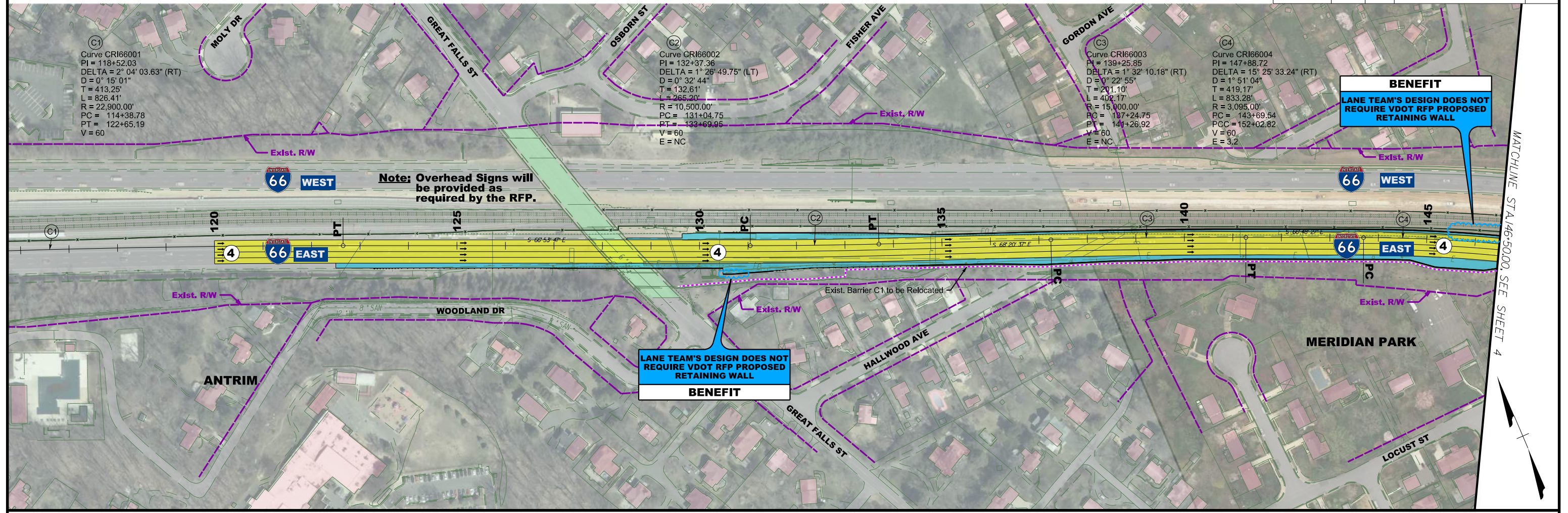
Note: Landscaping to be Provided per RFP Requirements

VDOT DEPARTMENT OF TRANSPORTATION	
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY	
LANE	rda
PROJECT 0066-96A-417	SHEET NO. 3

Base Scope Plan

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

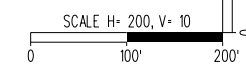
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	3



- LEGEND**
- Existing Pavement
 - Proposed Bridge Widening
 - Proposed Temporary Easement
 - Existing Roadway/Pedestrian Bridge
 - Proposed Sidewalk/Trail
 - Proposed Permanent Easement
 - Existing Buildings
 - Proposed Noise Abatement
 - Proposed Signal Modification
 - Existing Trail
 - Directional Arrows and Number of Lanes
 - Potential Utility Impacts
 - Proposed Lanes

VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

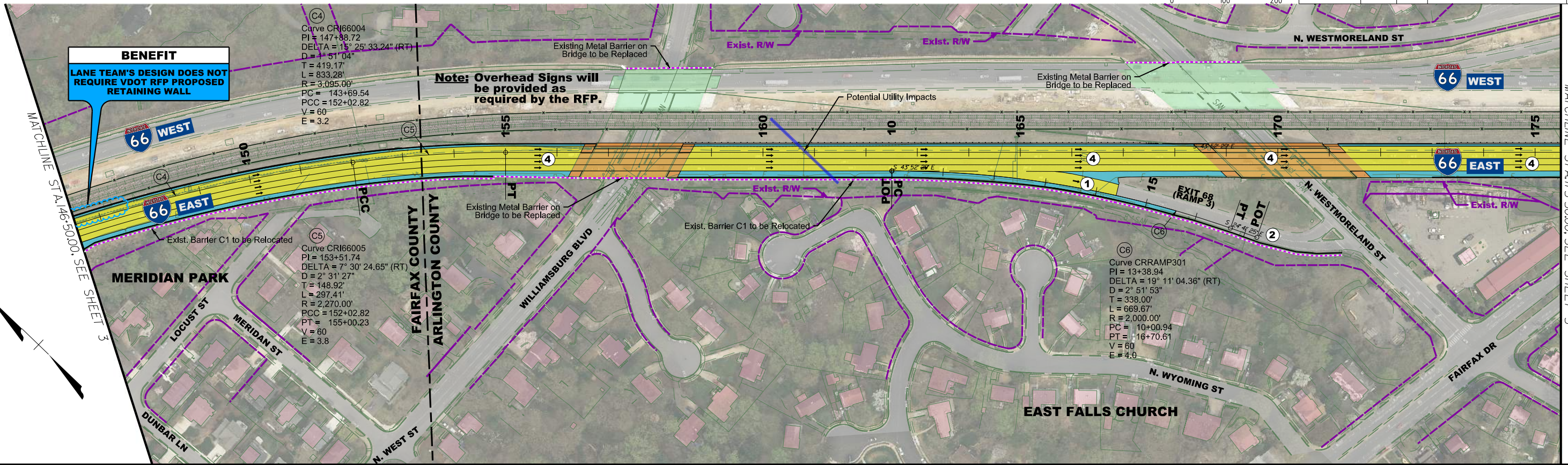
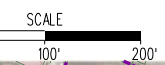
PROJECT: 0066-96A-417 SHEET NO.: 3



MATCHLINE STA 146+5000, SEE SHEET 4

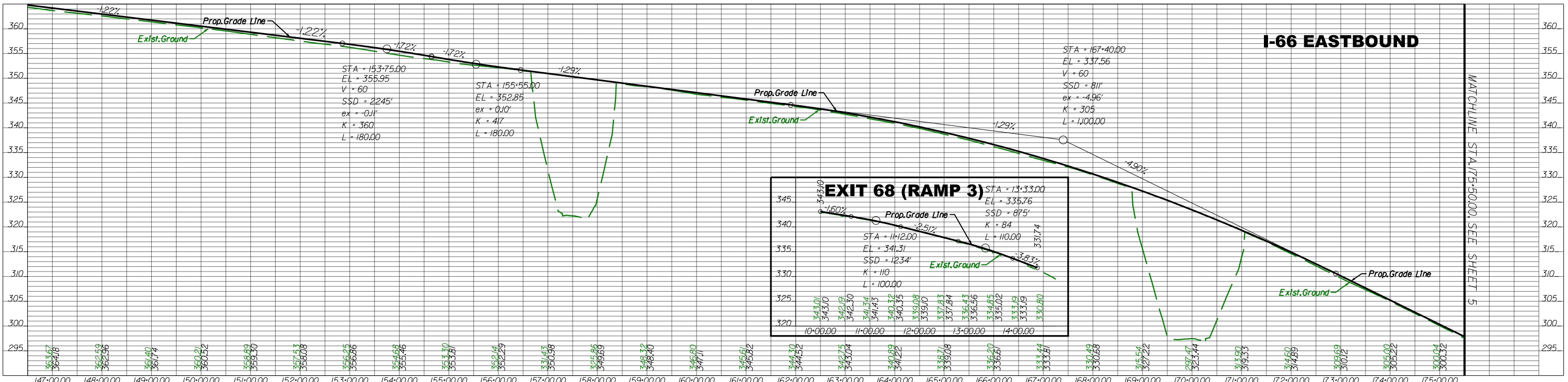
Base Scope Plan

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEMAND NECESSARY BY THE DEPARTMENT	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
		VA.	66	(F0)0066 - 96A - 417	4

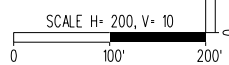


BENEFIT
LANE TEAM'S DESIGN DOES NOT REQUIRE VDOT RFP PROPOSED RETAINING WALL

Note: Overhead Signs will be provided as required by the RFP.



- LEGEND**
- Existing Pavement
 - Existing Roadway/Pedestrian Bridge
 - Existing Buildings
 - Existing Trail
 - Proposed Lanes
 - Proposed Shoulder
 - Proposed Bridge Widening
 - Proposed Sidewalk/Trail
 - Proposed Noise Abatement
 - Directional Arrows and Number of Lanes
 - Potential Utility Impacts
 - Proposed Temporary Easement
 - Proposed Permanent Easement
 - Proposed Signal Modification



VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

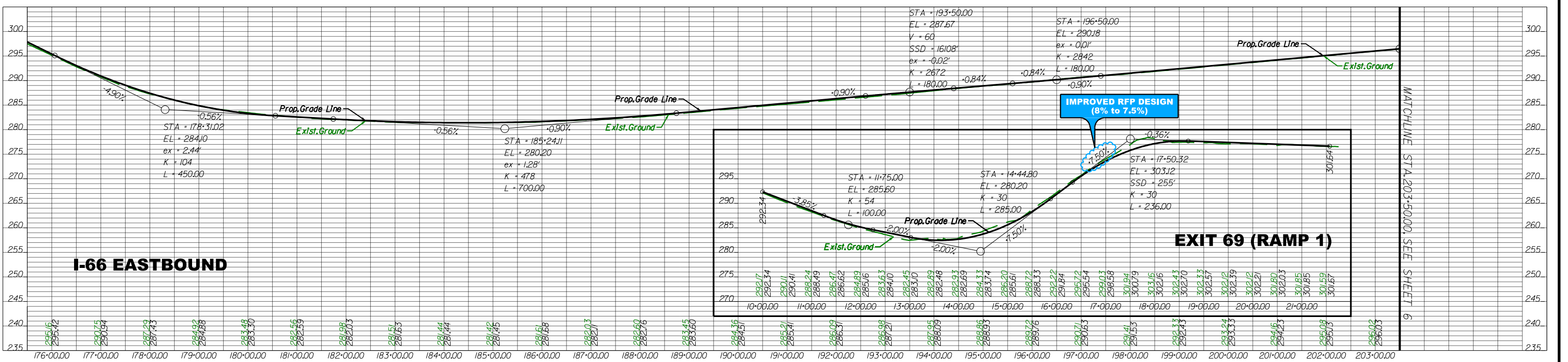
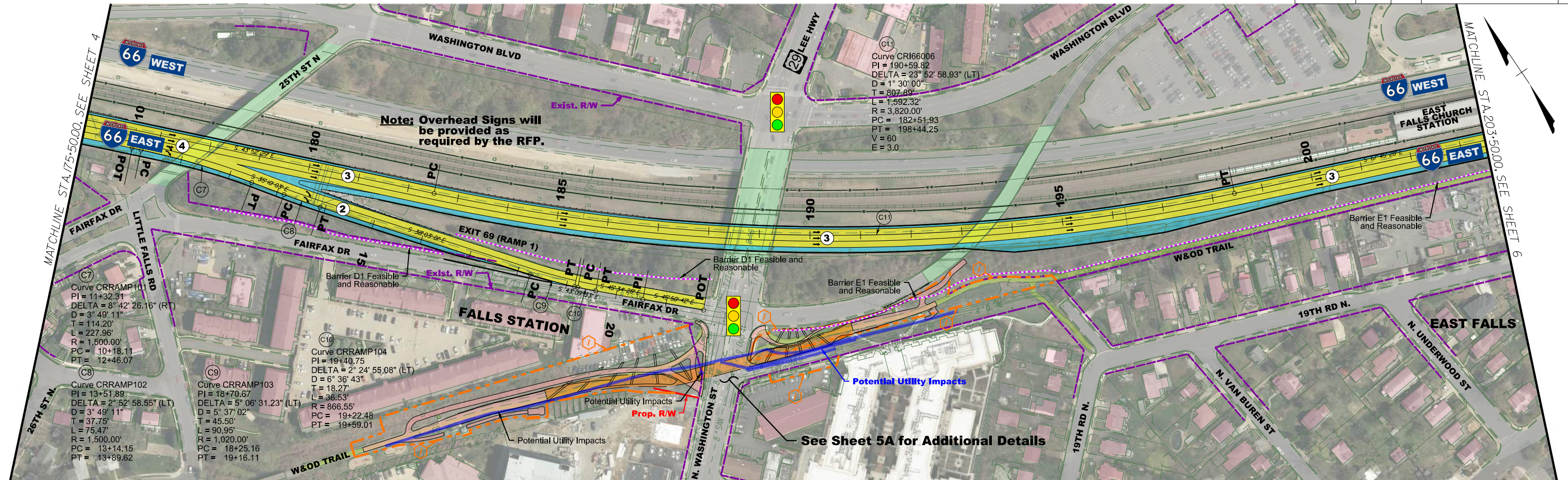
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PROJECT: 0066-96A-417
SHEET NO.: 4

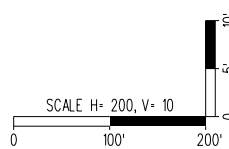
Base Scope Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	5



- LEGEND**
- Existing Pavement
 - Existing Roadway/Pedestrian Bridge
 - Existing Buildings
 - Existing Trail
 - Proposed Lanes
 - Proposed Shoulder
 - Proposed Pedestrian Bridge
 - Proposed Sidewalk/Trail
 - Proposed Noise Abatement
 - Directional Arrows and Number of Lanes
 - Potential Utility Impacts
 - Proposed Temporary Easement
 - Proposed Permanent Easement
 - Proposed Signal Modification



VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

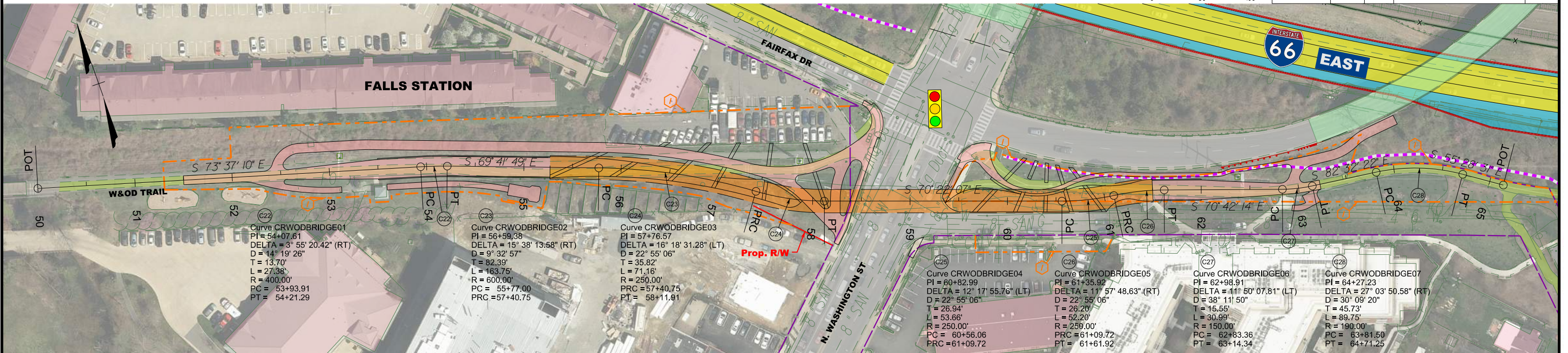
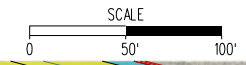
PROJECT
0066-96A-417

SHEET NO.
5

Base Scope Plan

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

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	66	(F0)0066 - 96A - 417	5A



Curve CRWODBRIDGE01
 PI = 54+07.61
 DELTA = 3° 55' 20.42" (RT)
 D = 14° 19' 26"
 T = 13.70'
 L = 27.38'
 R = 400.00'
 PC = 53+93.91
 PT = 54+21.29

Curve CRWODBRIDGE02
 PI = 56+59.38
 DELTA = 15° 38' 13.58" (RT)
 D = 9° 32' 57"
 T = 82.39'
 L = 163.75'
 R = 600.00'
 PC = 55+77.00
 PRC = 57+40.75

Curve CRWODBRIDGE03
 PI = 57+76.57
 DELTA = 16° 18' 31.28" (LT)
 D = 22° 55' 06"
 T = 35.82'
 L = 71.16'
 R = 250.00'
 PRC = 57+40.75
 PT = 58+11.91

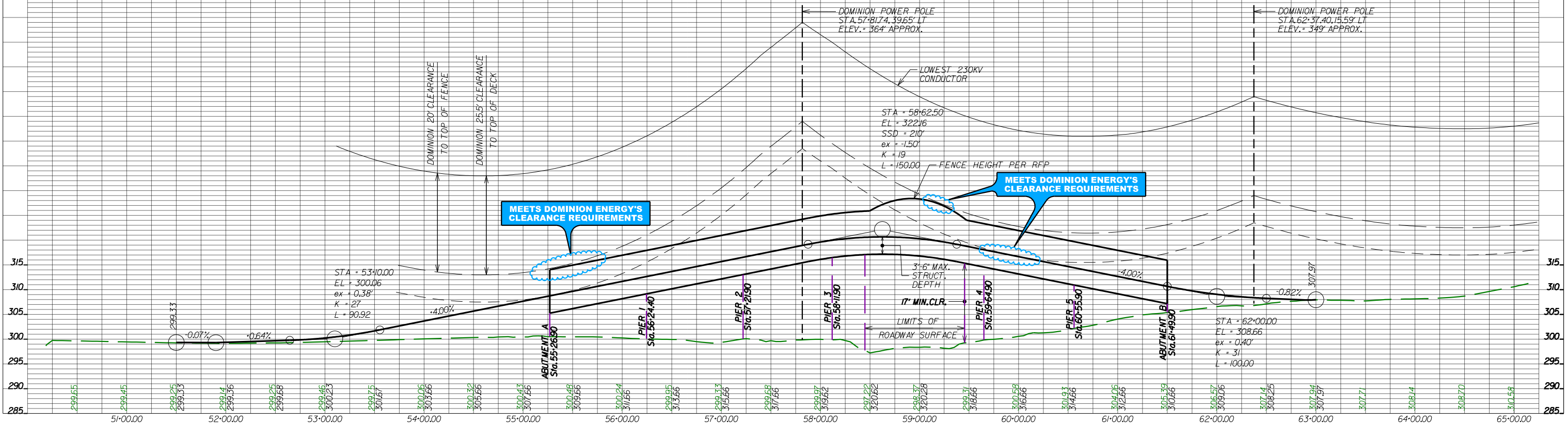
Curve CRWODBRIDGE04
 PI = 60+82.99
 DELTA = 12° 17' 55.76" (LT)
 D = 22° 55' 06"
 T = 26.94'
 L = 53.66'
 R = 250.00'
 PC = 60+56.06
 PRC = 61+09.72

Curve CRWODBRIDGE05
 PI = 61+35.92
 DELTA = 11° 57' 48.63" (RT)
 D = 22° 55' 06"
 T = 26.20'
 L = 52.20'
 R = 250.00'
 PRC = 61+09.72
 PT = 61+61.92

Curve CRWODBRIDGE06
 PI = 62+98.91
 DELTA = 11° 50' 07.81" (LT)
 D = 38° 11' 50"
 T = 15.55'
 L = 30.99'
 R = 150.00'
 PC = 62+83.36
 PT = 63+14.34

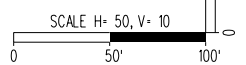
Curve CRWODBRIDGE07
 PI = 64+27.23
 DELTA = 27° 03' 50.58" (RT)
 D = 30° 09' 20"
 T = 45.73'
 L = 89.75'
 R = 190.00'
 PC = 63+81.50
 PT = 64+71.25

W&OD BRIDGE



LEGEND

- Existing Pavement
- Existing Roadway/Pedestrian Bridge
- Existing Buildings
- Existing Trail
- Proposed Lanes
- Proposed Shoulder
- Proposed Pedestrian Bridge
- Proposed Sidewalk/Trail
- Proposed Noise Abatement
- Potential Utility Impacts
- Proposed Temporary Easement
- Proposed Permanent Easement
- Proposed Signal Modification
- Directional Arrows and Number of Lanes



VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

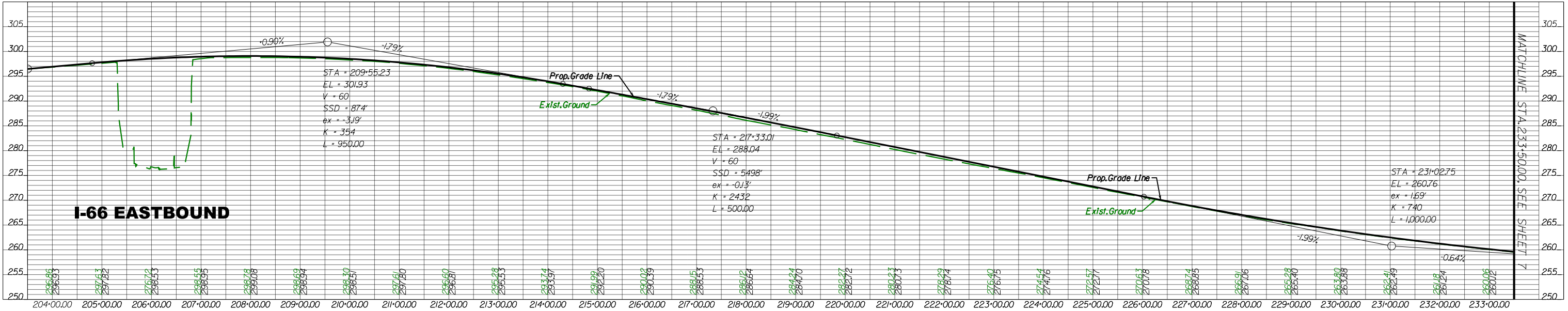
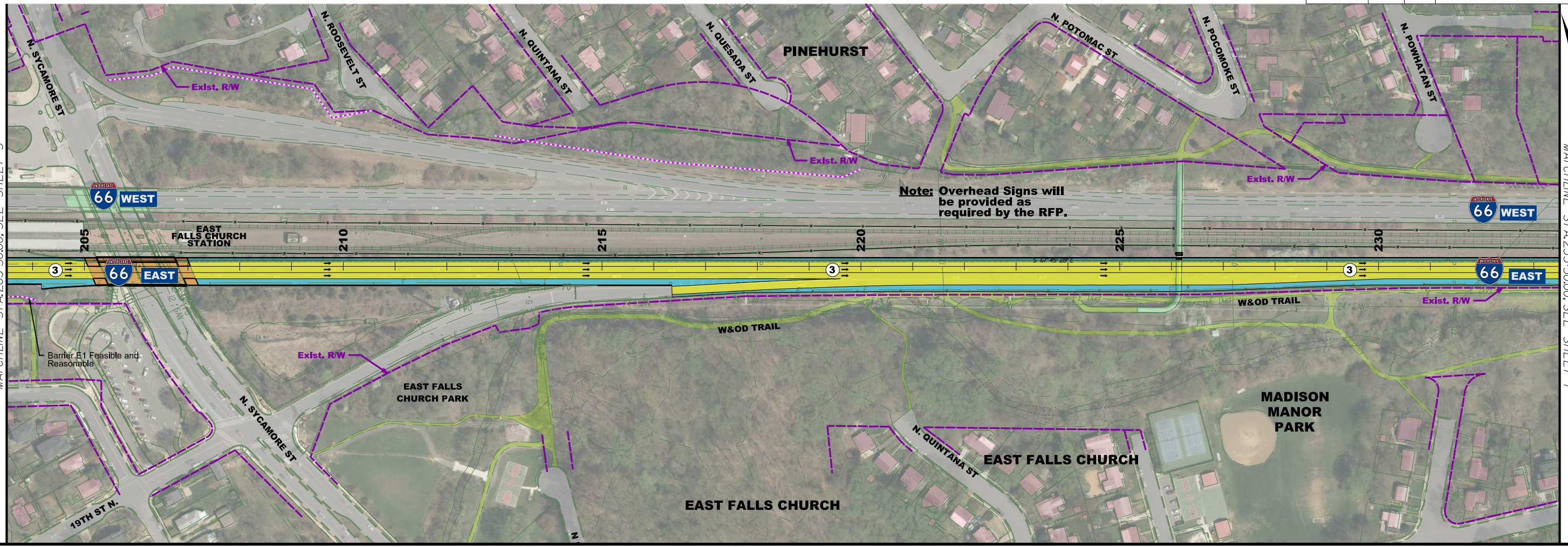
rda

PROJECT: 0066-96A-417
 SHEET NO.: 5A

Base Scope Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	6

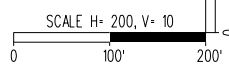


- LEGEND**
- Existing Pavement
 - Existing Roadway/Pedestrian Bridge
 - Existing Buildings
 - Existing Trail
 - Proposed Lanes
 - Proposed Shoulder
 - Proposed Bridge Widening
 - Proposed Sidewalk/Trail
 - Proposed Noise Abatement
 - Directional Arrows and Number of Lanes
 - Potential Utility Impacts
 - Proposed Temporary Easement
 - Proposed Permanent Easement
 - Proposed Signal Modification

VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

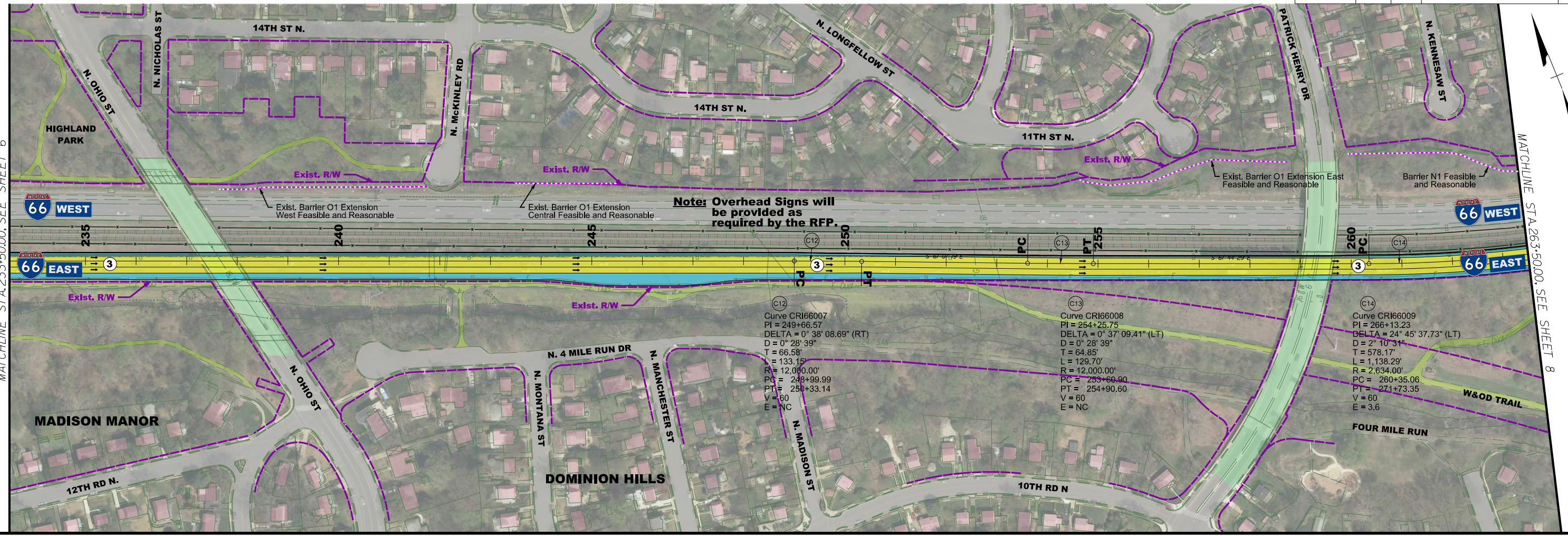
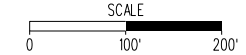
rda PROJECT 0066-96A-417 SHEET NO. 6



Base Scope Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	7



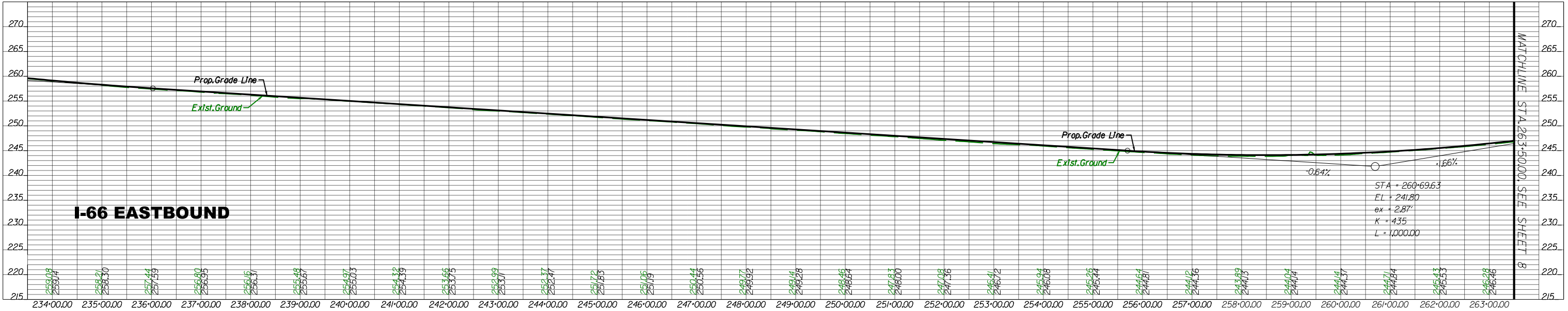
MATCHLINE STA. 233+50.00, SEE SHEET 6

MATCHLINE STA. 263+50.00, SEE SHEET 8

Curve CRI66007
 PI = 249+66.57
 DELTA = 0° 38' 08.69" (RT)
 D = 0° 28' 39"
 T = 66.58'
 L = 133.15'
 R = 12,000.00'
 PC = 248+99.99
 PT = 250+33.14
 V = 60
 E = NC

Curve CRI66008
 PI = 254+25.75
 DELTA = 0° 37' 09.41" (LT)
 D = 0° 28' 39"
 T = 64.85'
 L = 129.70'
 R = 12,000.00'
 PC = 253+60.90
 PT = 254+90.60
 V = 60
 E = NC

Curve CRI66009
 PI = 266+13.23
 DELTA = 24° 45' 37.73" (LT)
 D = 2° 10' 31"
 T = 578.17'
 L = 1,138.29'
 R = 2,634.00'
 PC = 260+35.06
 PT = 271+73.35
 V = 60
 E = 3.6



I-66 EASTBOUND

LEGEND

Existing Pavement	Proposed Bridge Widening	Proposed Temporary Easement	Proposed Signal Modification
Existing Roadway/Pedestrian Bridge	Proposed Sidewalk/Trail	Proposed Permanent Easement	
Existing Buildings	Proposed Noise Abatement		
Existing Trail	Directional Arrows and Number of Lanes		
Proposed Lanes	Potential Utility Impacts		
Proposed Shoulder			

SCALE H= 200, V= 10

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

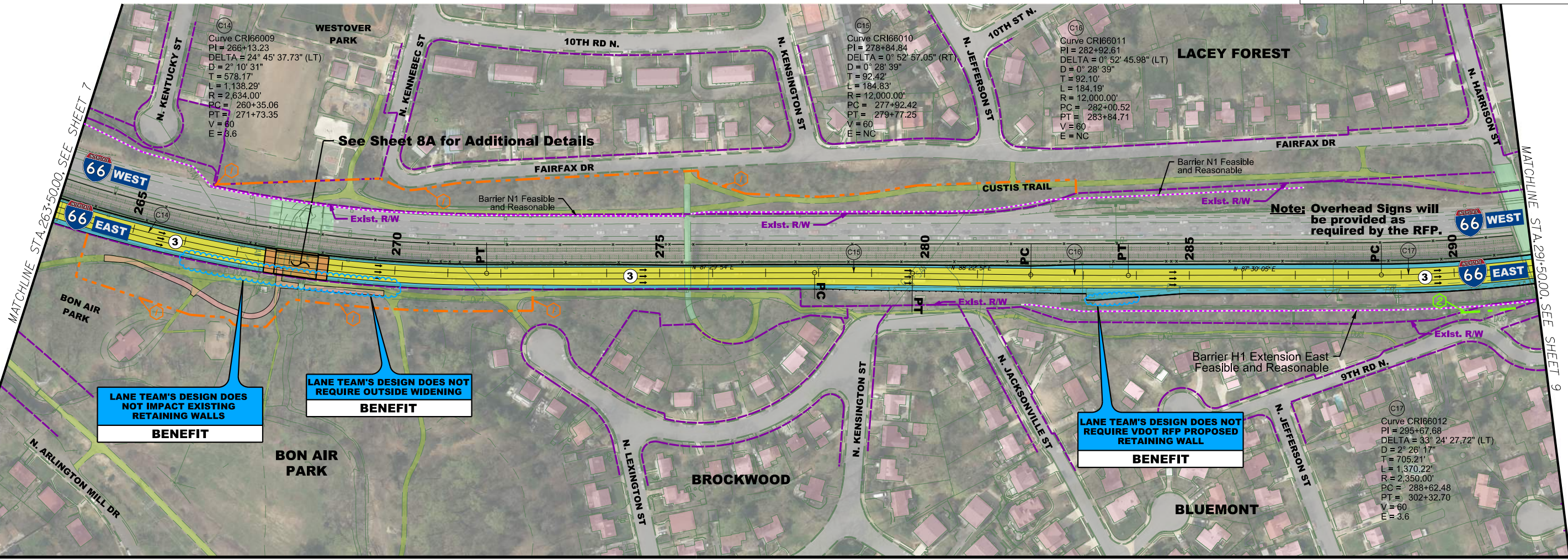
rda

PROJECT: 0066-96A-417
 SHEET NO.: 7

Base Scope Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	8

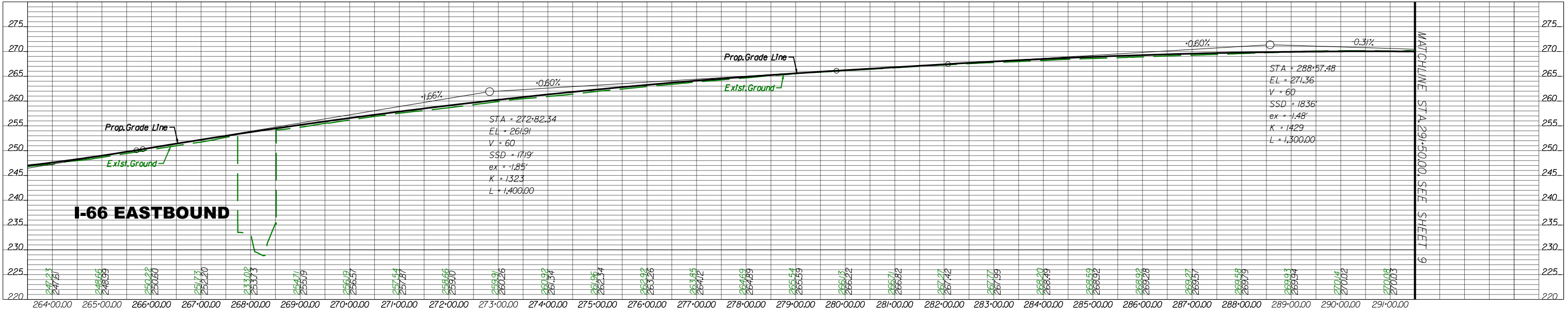


LANE TEAM'S DESIGN DOES NOT IMPACT EXISTING RETAINING WALLS
BENEFIT

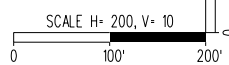
LANE TEAM'S DESIGN DOES NOT REQUIRE OUTSIDE WIDENING
BENEFIT

LANE TEAM'S DESIGN DOES NOT REQUIRE VDOT RFP PROPOSED RETAINING WALL
BENEFIT

Note: Overhead Signs will be provided as required by the RFP.



- LEGEND**
- Existing Pavement
 - Existing Roadway/Pedestrian Bridge
 - Existing Buildings
 - Existing Trail
 - Proposed Lanes
 - Proposed Shoulder
 - Proposed Bridge Redecking
 - Proposed Sidewalk/Trail
 - Proposed Noise Abatement
 - Directional Arrows and Number of Lanes
 - Potential Utility Impacts
 - Proposed Temporary Easement
 - Proposed Permanent Easement
 - Proposed Signal Modification



VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

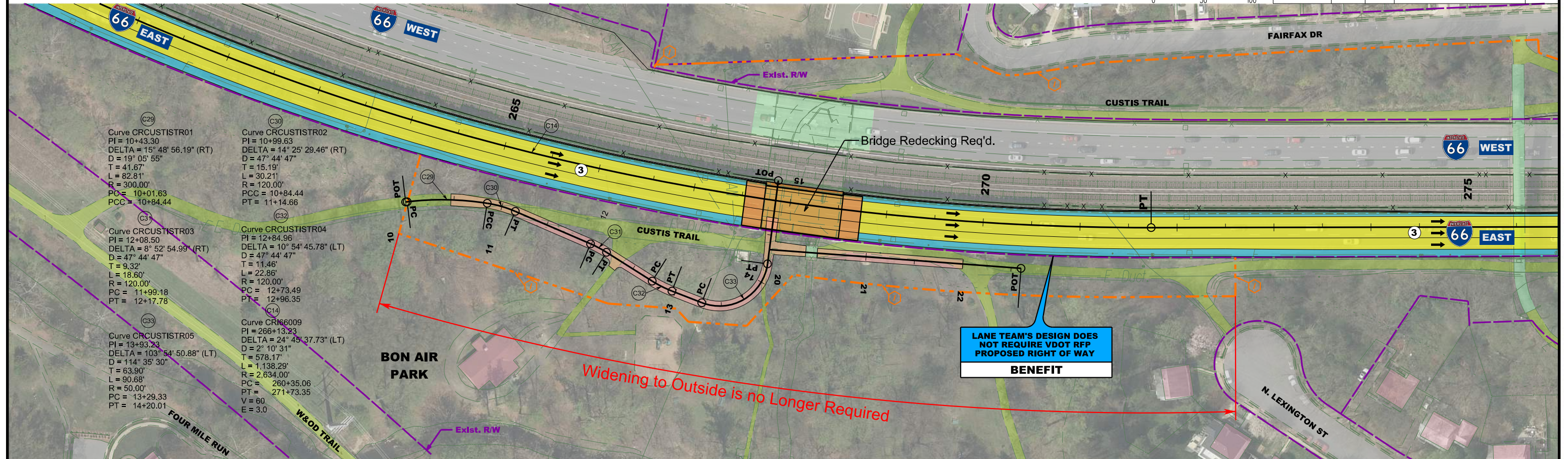
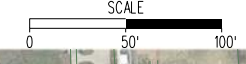
rda

PROJECT: 0066-96A-417
SHEET NO.: 8

Base Scope Plan

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

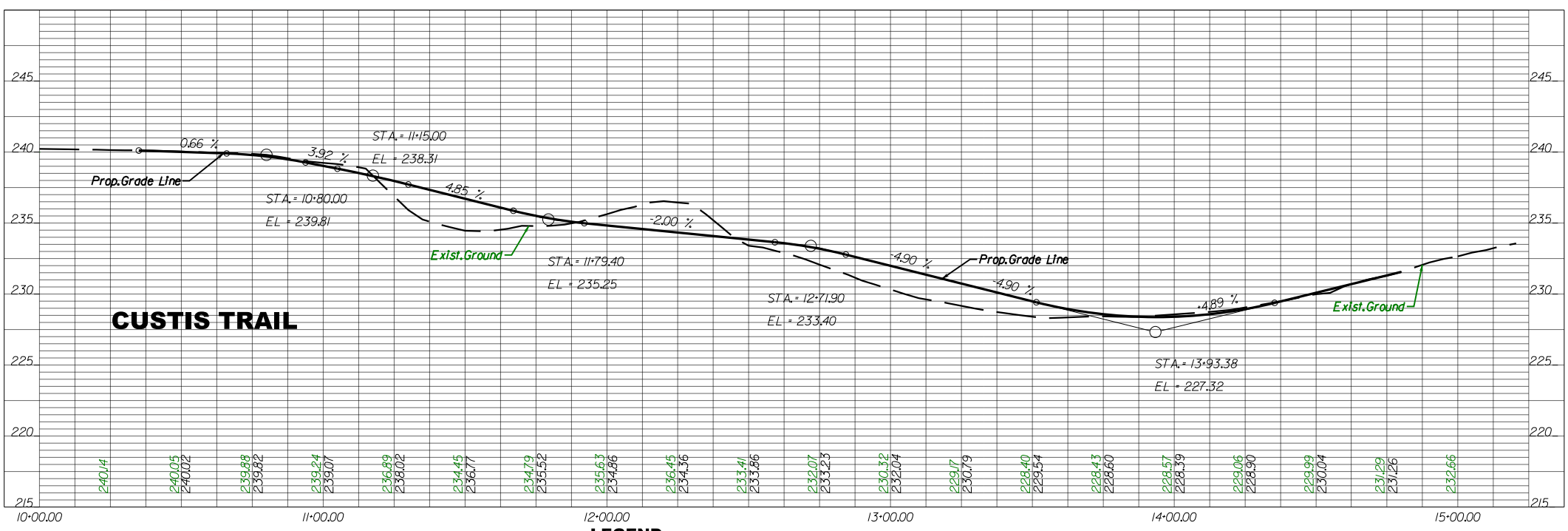
REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	66	(F0)0066 - 96A - 417	8A



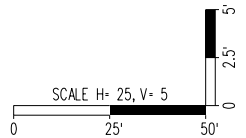
- Curve CRCUSTISTR01
PI = 10+43.30
DELTA = 15° 48' 56.19" (RT)
D = 19° 05' 55"
T = 41.67'
L = 82.81'
R = 300.00'
PC = 10+01.63
PCC = 10+84.44
- Curve CRCUSTISTR02
PI = 10+99.63
DELTA = 14° 25' 29.46" (RT)
D = 47° 44' 47"
T = 15.19'
L = 30.21'
R = 120.00'
PC = 10+84.44
PT = 11+14.66
- Curve CRCUSTISTR03
PI = 12+08.50
DELTA = 8° 52' 54.99" (RT)
D = 47° 44' 47"
T = 9.32'
L = 18.60'
R = 120.00'
PC = 11+99.18
PT = 12+17.78
- Curve CRCUSTISTR04
PI = 12+84.96
DELTA = 10° 54' 45.78" (LT)
D = 47° 44' 47"
T = 11.46'
L = 22.86'
R = 120.00'
PC = 12+73.49
PT = 12+96.35
- Curve CRCUSTISTR05
PI = 13+93.23
DELTA = 103° 54' 50.88" (LT)
D = 114° 35' 30"
T = 63.90'
L = 90.68'
R = 50.00'
PC = 13+29.33
PT = 14+20.01
- Curve CR166009
PI = 266+13.23
DELTA = 24° 45' 37.73" (LT)
D = 2° 10' 31"
T = 578.17'
L = 1,138.29'
R = 2,634.00'
PC = 260+35.06
PT = 271+73.35
V = 60
E = 3.0

LANE TEAM'S DESIGN DOES NOT REQUIRE VDOT RFP PROPOSED RIGHT OF WAY BENEFIT

Widening to Outside is no Longer Required



- LEGEND**
- Existing Pavement
 - Existing Roadway/Pedestrian Bridge
 - Existing Buildings
 - Existing Trail
 - Proposed Lanes
 - Proposed Shoulder
 - Proposed Bridge Redecking
 - Proposed Sidewalk/Trail
 - Proposed Noise Abatement
 - Potential Utility Impacts
 - Proposed Temporary Easement
 - Proposed Permanent Easement
 - Proposed Signal Modification
 - Directional Arrows and Number of Lanes



VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

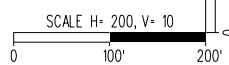
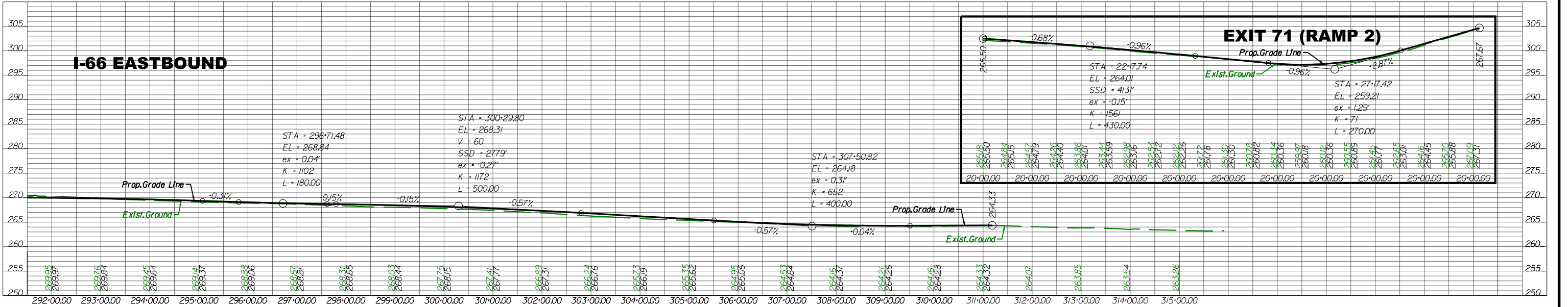
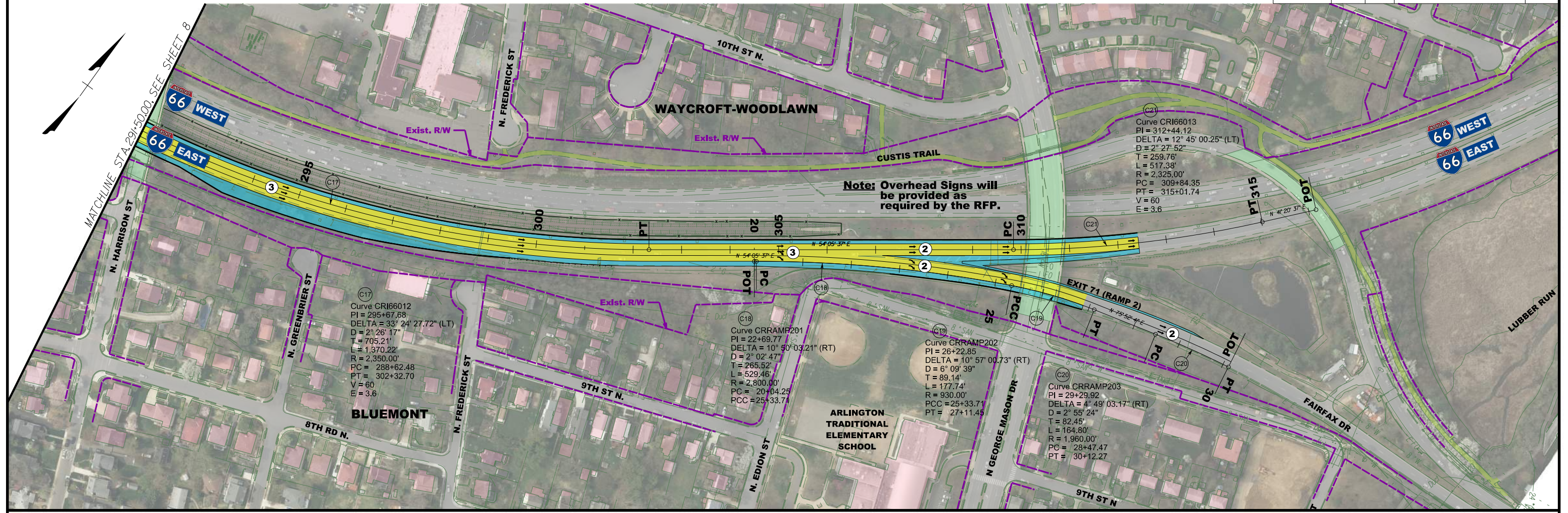
LANE

rda PROJECT 0066-96A-417 SHEET NO. 8A

Base Scope Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	9



VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

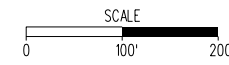
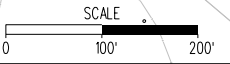
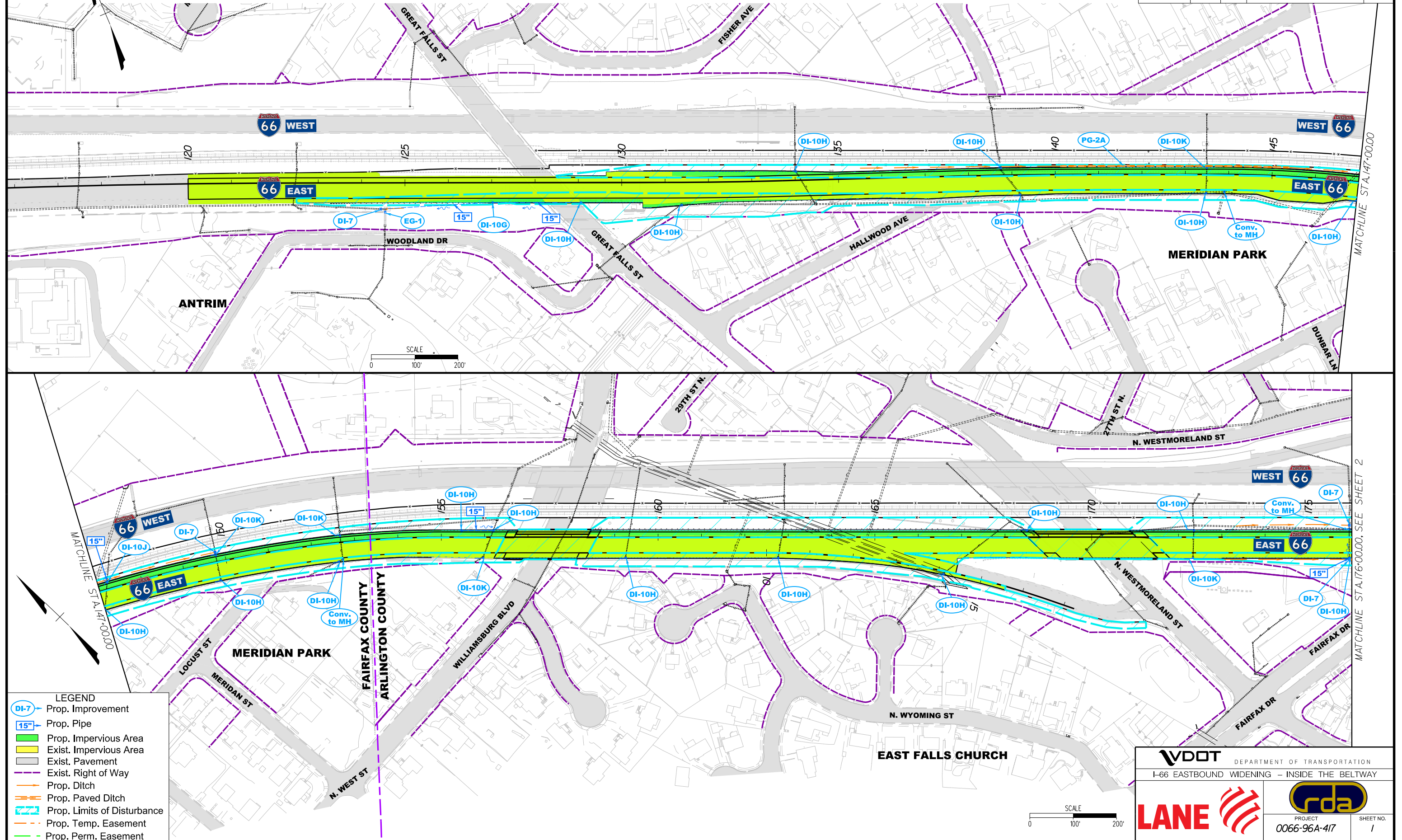
rda

PROJECT: 0066-96A-417
 SHEET NO.: 9

Base Scope Preliminary Hydraulic Plan

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

REVISED	STATE	ROUTE	STATE PROJECT		SHEET NO.
			PROJECT		
	VA.	66	(F0)0066 - 96A - 417		1



LEGEND

- DI-7 Prop. Improvement
- 15" Prop. Pipe
- Prop. Impervious Area
- Exist. Impervious Area
- Exist. Pavement
- Exist. Right of Way
- Prop. Ditch
- Prop. Paved Ditch
- Prop. Limits of Disturbance
- Prop. Temp. Easement
- Prop. Perm. Easement

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING – INSIDE THE BELTWAY

LANE

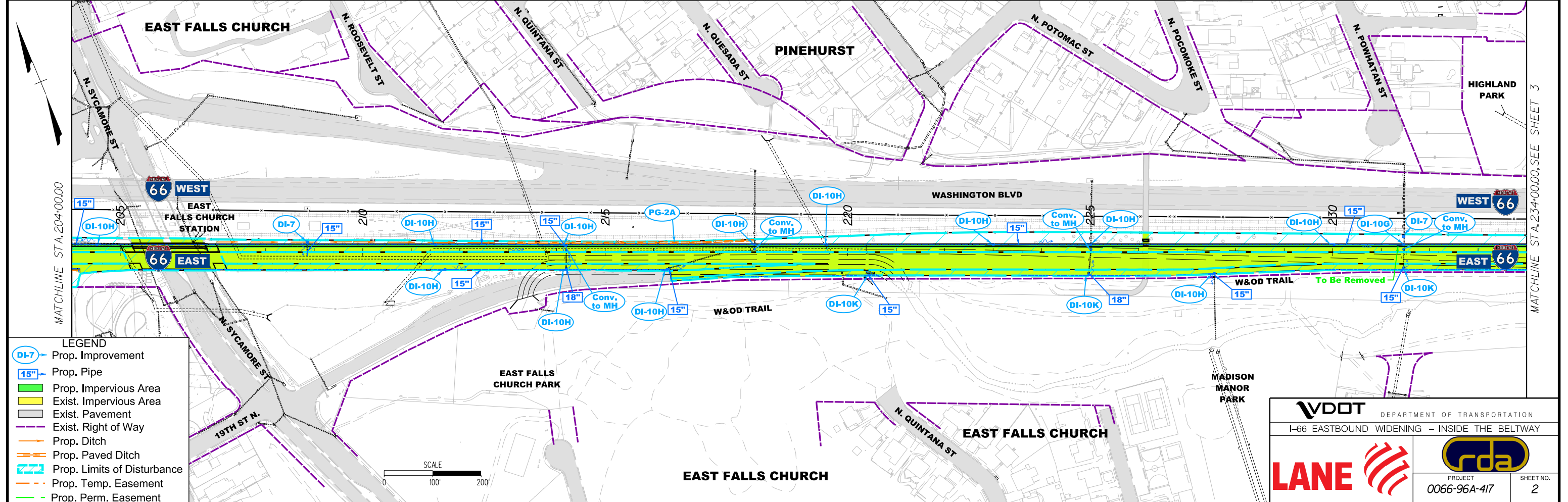
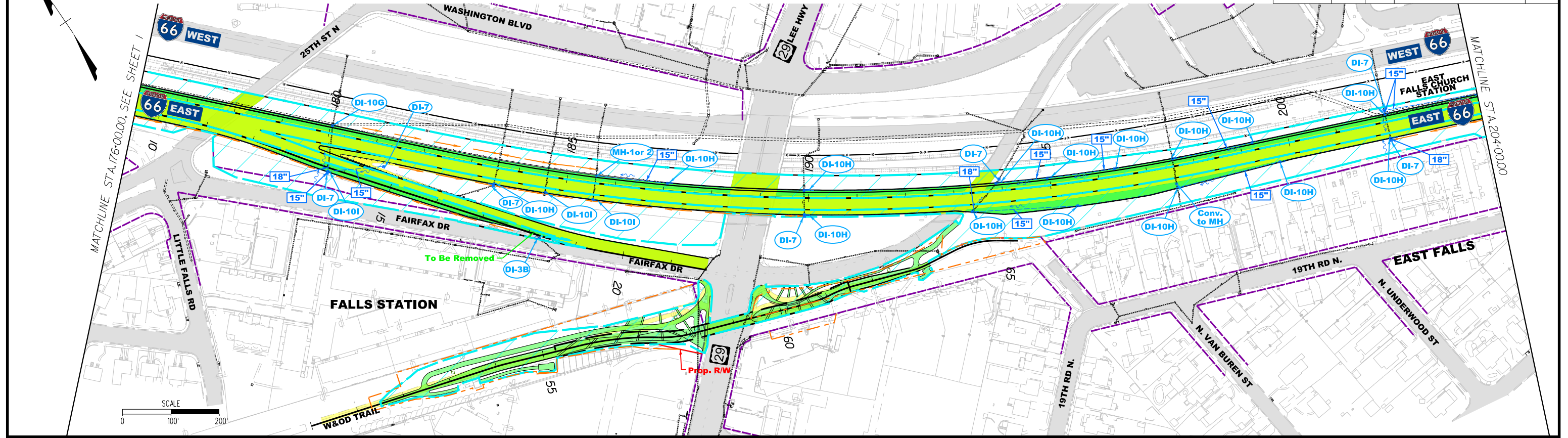
rda

PROJECT: 0066-96A-417 SHEET NO.: 1

Base Scope Preliminary Hydraulic Plan

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	66		(F0)0066 - 96A - 417	2



LEGEND

- DI-7 Prop. Improvement
- 15" Prop. Pipe
- Prop. Impervious Area
- Exist. Impervious Area
- Exist. Pavement
- Exist. Right of Way
- Prop. Ditch
- Prop. Paved Ditch
- Prop. Limits of Disturbance
- Prop. Temp. Easement
- Prop. Perm. Easement

VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

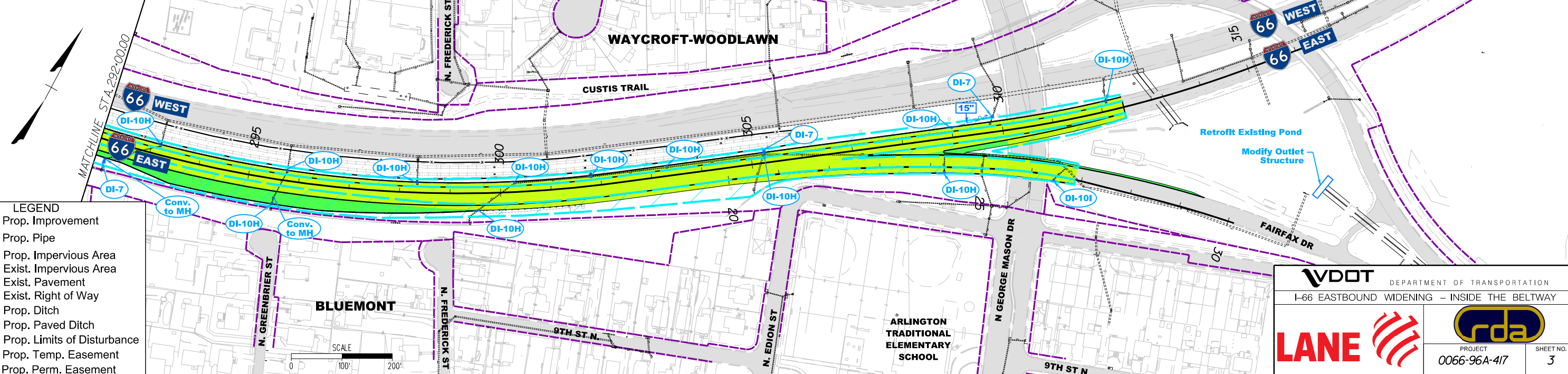
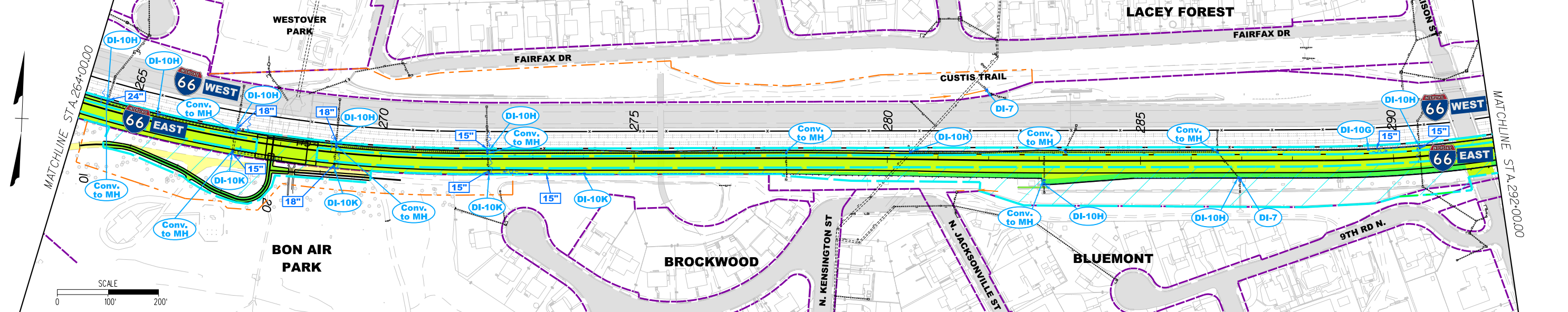
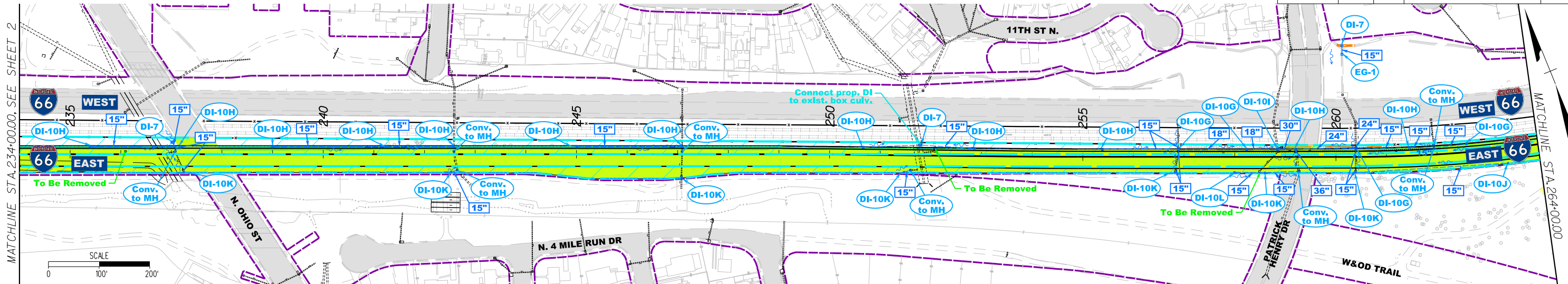
LANE **rda**

PROJECT: 0066-96A-417 SHEET NO.: 2

Base Scope Preliminary Hydraulic Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	3



- LEGEND**
- DI-7 Prop. Improvement
 - 15" Prop. Pipe
 - Prop. Impervious Area
 - Exist. Impervious Area
 - Exist. Pavement
 - Exist. Right of Way
 - Prop. Ditch
 - Prop. Paved Ditch
 - Prop. Limits of Disturbance
 - Prop. Temp. Easement
 - Prop. Perm. Easement

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

rda PROJECT 0066-96A-417 SHEET NO. 3

Summary of Project SWM/BMP Strategy

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	4

Base Scope: Performance Based calculations per IIC criteria

<p>Watershed: Fourmile Run (PL25) BEST MANAGEMENT PRACTICES (BMP) NARRATIVE AND CALCULATIONS ARLINGTON COUNTY</p> <p>PERFORMANCE-BASED WATER QUALITY CALCULATIONS</p> <p>APPLICABLE AREA, (A):</p> <p>Total Site Area = 23.58 AC Planning Area = 23.58 AC A = 23.58 AC</p> <p>Off-Site R/W = AC</p> <p>POST-DEVELOPED IMPERVIOUS COVER, (lpost):</p> <table border="1"> <tr> <th>Tabulation of Impervious Areas</th> <th>lpost =</th> <th>Total Impervious Area / A</th> </tr> <tr> <td>On-Site</td> <td>12.46 AC</td> <td>12.46 AC</td> </tr> <tr> <td>Pavement</td> <td>AC</td> <td>23.58 AC</td> </tr> <tr> <td>Total -</td> <td>12.46 AC</td> <td>52.8 %</td> </tr> </table> <p>EXISTING IMPERVIOUS COVER, (lexisting):</p> <table border="1"> <tr> <th>Tabulation of Impervious Areas</th> <th>lexisting =</th> <th>Total Impervious Area / A</th> </tr> <tr> <td>On-Site</td> <td>9.13 AC</td> <td>9.13 AC</td> </tr> <tr> <td>Pavement</td> <td>AC</td> <td>23.58 AC</td> </tr> <tr> <td>Total -</td> <td>9.13 AC</td> <td>38.7 %</td> </tr> </table> <p>AVERAGE LAND CONDITION, (lwatershed):</p> <p>lwatershed = 38 %</p> <p>Is the Existing Impervious Cover (lexisting) served by an existing stormwater management BMP that addresses water quality? NO</p> <p>DEVELOPMENT SITUATION</p> <p>SITUATION 3 Land development where the Existing Impervious Cover (lexisting) is greater than the Average Land Cover (lwatershed).</p> <p>REQUIRED REMOVAL EFFICIENCY:</p> <p>EFF = $(RR / Lpost) \times 100$ EFF = $(7.18 / 28.26) \times 100$ EFF = 25 %</p>	Tabulation of Impervious Areas	lpost =	Total Impervious Area / A	On-Site	12.46 AC	12.46 AC	Pavement	AC	23.58 AC	Total -	12.46 AC	52.8 %	Tabulation of Impervious Areas	lexisting =	Total Impervious Area / A	On-Site	9.13 AC	9.13 AC	Pavement	AC	23.58 AC	Total -	9.13 AC	38.7 %	<p>Watershed: Fourmile Run (PL25) BEST MANAGEMENT PRACTICES (BMP) NARRATIVE AND CALCULATIONS FAIRFAX COUNTY</p> <p>PERFORMANCE-BASED WATER QUALITY CALCULATIONS</p> <p>APPLICABLE AREA, (A):</p> <p>Total Site Area = 3.36 AC Planning Area = 3.36 AC A = 3.36 AC</p> <p>Off-Site R/W = AC</p> <p>POST-DEVELOPED IMPERVIOUS COVER, (lpost):</p> <table border="1"> <tr> <th>Tabulation of Impervious Areas</th> <th>lpost =</th> <th>Total Impervious Area / A</th> </tr> <tr> <td>On-Site</td> <td>1.66 AC</td> <td>1.66 AC</td> </tr> <tr> <td>Pavement</td> <td>AC</td> <td>3.36 AC</td> </tr> <tr> <td>Total -</td> <td>1.66 AC</td> <td>49.4 %</td> </tr> </table> <p>EXISTING IMPERVIOUS COVER, (lexisting):</p> <table border="1"> <tr> <th>Tabulation of Impervious Areas</th> <th>lexisting =</th> <th>Total Impervious Area / A</th> </tr> <tr> <td>On-Site</td> <td>0.95 AC</td> <td>0.95 AC</td> </tr> <tr> <td>Pavement</td> <td>AC</td> <td>3.36 AC</td> </tr> <tr> <td>Total -</td> <td>0.95 AC</td> <td>28.3 %</td> </tr> </table> <p>AVERAGE LAND CONDITION, (lwatershed):</p> <p>lwatershed = 16 %</p> <p>Is the Existing Impervious Cover (lexisting) served by an existing stormwater management BMP that addresses water quality? NO</p> <p>DEVELOPMENT SITUATION</p> <p>SITUATION 3 Land development where the Existing Impervious Cover (lexisting) is greater than the Average Land Cover (lwatershed).</p> <p>REQUIRED REMOVAL EFFICIENCY:</p> <p>EFF = $(RR / Lpost) \times 100$ EFF = $(1.69 / 3.79) \times 100$ EFF = 45 %</p>	Tabulation of Impervious Areas	lpost =	Total Impervious Area / A	On-Site	1.66 AC	1.66 AC	Pavement	AC	3.36 AC	Total -	1.66 AC	49.4 %	Tabulation of Impervious Areas	lexisting =	Total Impervious Area / A	On-Site	0.95 AC	0.95 AC	Pavement	AC	3.36 AC	Total -	0.95 AC	28.3 %	<p>Watershed: Pimmit Run (PL24) BEST MANAGEMENT PRACTICES (BMP) NARRATIVE AND CALCULATIONS FAIRFAX COUNTY</p> <p>PERFORMANCE-BASED WATER QUALITY CALCULATIONS</p> <p>APPLICABLE AREA, (A):</p> <p>Total Site Area = 0.30 AC Planning Area = 0.30 AC A = 0.30 AC</p> <p>Off-Site R/W = AC</p> <p>POST-DEVELOPED IMPERVIOUS COVER, (lpost):</p> <table border="1"> <tr> <th>Tabulation of Impervious Areas</th> <th>lpost =</th> <th>Total Impervious Area / A</th> </tr> <tr> <td>On-Site</td> <td>0.23 AC</td> <td>0.23 AC</td> </tr> <tr> <td>Pavement</td> <td>AC</td> <td>0.30 AC</td> </tr> <tr> <td>Total -</td> <td>0.23 AC</td> <td>76.7 %</td> </tr> </table> <p>EXISTING IMPERVIOUS COVER, (lexisting):</p> <table border="1"> <tr> <th>Tabulation of Impervious Areas</th> <th>lexisting =</th> <th>Total Impervious Area / A</th> </tr> <tr> <td>On-Site</td> <td>0.18 AC</td> <td>0.18 AC</td> </tr> <tr> <td>Pavement</td> <td>AC</td> <td>0.30 AC</td> </tr> <tr> <td>Total -</td> <td>0.18 AC</td> <td>60.0 %</td> </tr> </table> <p>AVERAGE LAND CONDITION, (lwatershed):</p> <p>lwatershed = 16 %</p> <p>Is the Existing Impervious Cover (lexisting) served by an existing stormwater management BMP that addresses water quality? NO</p> <p>DEVELOPMENT SITUATION</p> <p>SITUATION 3 Land development where the Existing Impervious Cover (lexisting) is greater than the Average Land Cover (lwatershed).</p> <p>REQUIRED REMOVAL EFFICIENCY:</p> <p>EFF = $(RR / Lpost) \times 100$ EFF = $(0.14 / 0.51) \times 100$ EFF = 28 %</p>	Tabulation of Impervious Areas	lpost =	Total Impervious Area / A	On-Site	0.23 AC	0.23 AC	Pavement	AC	0.30 AC	Total -	0.23 AC	76.7 %	Tabulation of Impervious Areas	lexisting =	Total Impervious Area / A	On-Site	0.18 AC	0.18 AC	Pavement	AC	0.30 AC	Total -	0.18 AC	60.0 %
Tabulation of Impervious Areas	lpost =	Total Impervious Area / A																																																																								
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Pavement	AC	0.30 AC																																																																								
Total -	0.18 AC	60.0 %																																																																								
<p>Total Removal: 9.01 lbs/yr.</p>																																																																										

Base Scope:

The post development stormwater requirements have been analyzed in accordance with the requirements of the VDOT Drainage Manual and RFP Requirements. As the Base Scope improvements are grandfathered, the technical criteria IIC of the VSMP regulations, which includes for linear projects, the Performance Based criteria for water quality has been applied to the project. The improvements within the Base Scope outfall to two separate HUC watersheds: Four Mile Run (PL25) and Pimmit Run (PL24). Within the Four Mile Run watershed, the project outfalls to two separate jurisdictions: Fairfax County and Arlington County. Performance based calculations have been performed individually for each watershed and their respective jurisdictions within the Four Mile Run watershed. Based on the analyses conducted by the LANE Team, the water quality requirements for the Base Scope Improvements will be met by the purchase of nutrient credits. The LANE Team further affirms, water quantity requirements will also be met by retrofitting the existing VDOT SWM facilities within the Base Scope limits. Based on the LANE Team's analyses, no new facilities for quality control or quantity control are proposed within the limits of the Base Scope. All applicable erosion and sediment control requirements will also be met.

BENEFIT

THE LANE TEAM'S DESIGN REQUIRES NO NEW/ADDITIONAL SWM FACILITIES WITHIN BASE SCOPE IMPROVEMENTS.

Option 1: Virginia Runoff Reduction Method (VRRM) calculations per IIB criteria

Summary of VRRM Results

Site Results (Water Quality Compliance)		LINEAR PROJECT
Total Phosphorus		
FINAL POST-DEVELOPMENT TP LOAD (lb/yr)		3.09
TP LOAD REDUCTION REQUIRED (lb/yr)		1.43
TP LOAD REDUCTION ACHIEVED (lb/yr)		0.00
TP LOAD REMAINING (lb/yr)		3.09
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr)		1.43

Site Compliance Summary	
Maximum % Reduction Required Below Pre-Development Load	20%
Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	3.09
Remaining TP Load Reduction (lb/yr) Required	1.43

Option 1:

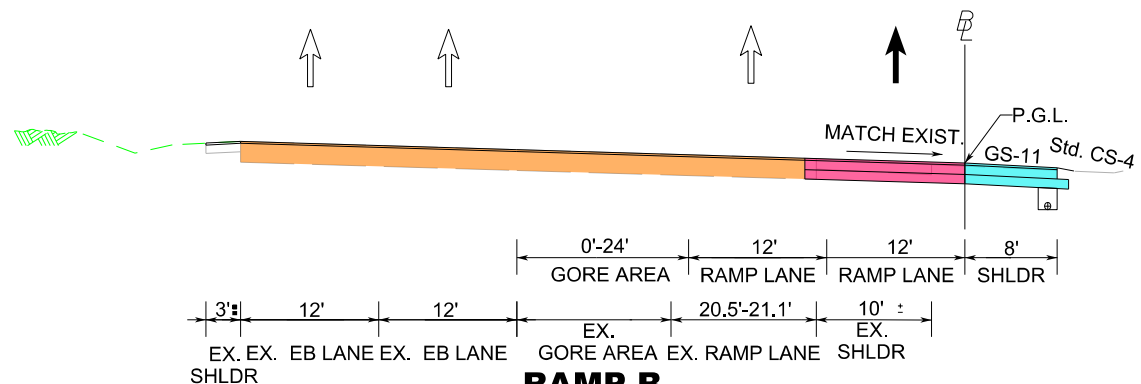
The post development stormwater requirements have been analyzed in accordance with the requirements of the VDOT Drainage Manual and RFP Requirements. As Option 1 is not grandfathered, the technical criteria IIB of the VSMP regulations which includes, for linear projects, the Run-Off Reduction Method for water quality has been applied to the project. The proposed improvement for Option 1 outfall to a single HUC watershed, Pimmit Run (PL24). Calculations using the Virginia Runoff Reduction spreadsheet have been performed to determine the removal requirements and summarized above. Water quality requirements for Option 1 will be met by the purchase of nutrient credits. Water quantity requirements will be met using the proposed Dry Pond. One new facility for quantity control is proposed with Option 1. All applicable erosion and sediment control requirements will also be met.

 DEPARTMENT OF TRANSPORTATION I-66 EASTBOUND WIDENING – INSIDE THE BELTWAY			
			

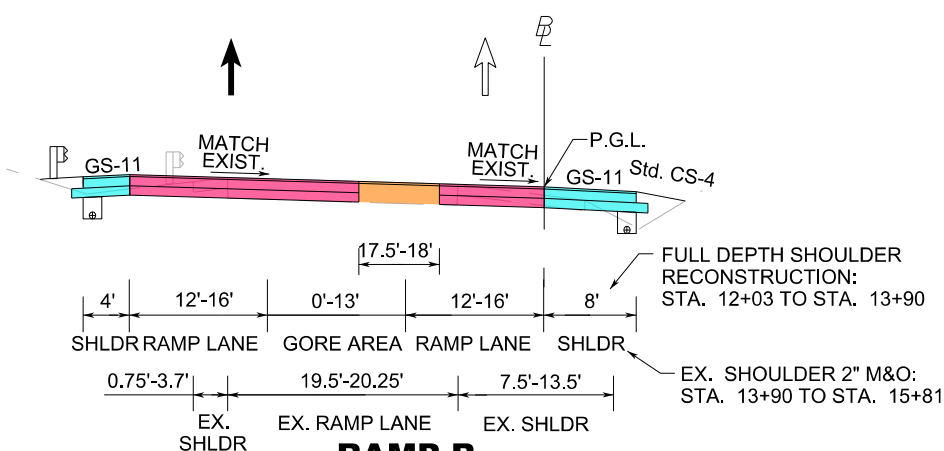
OPTION 1 TYPICAL SECTIONS

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

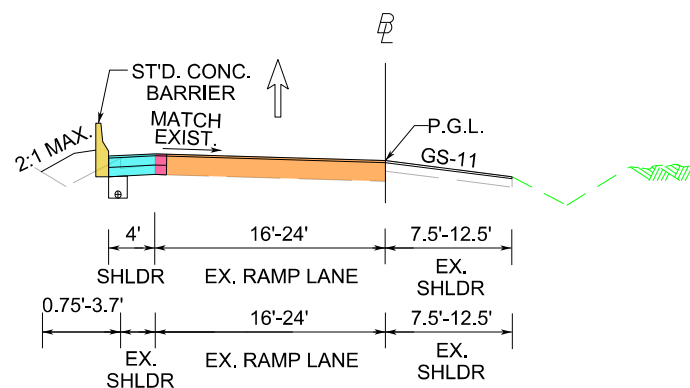
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	66	0066-96A-493	2A(1)



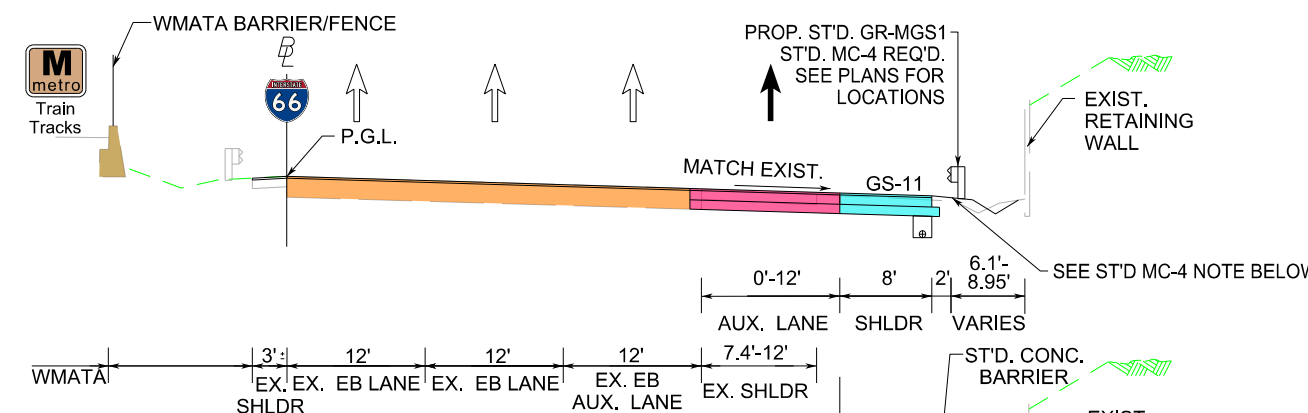
RAMP B
STA. 14+01 TO STA. 16+15



RAMP B
STA. 16+35 TO STA. 18+50



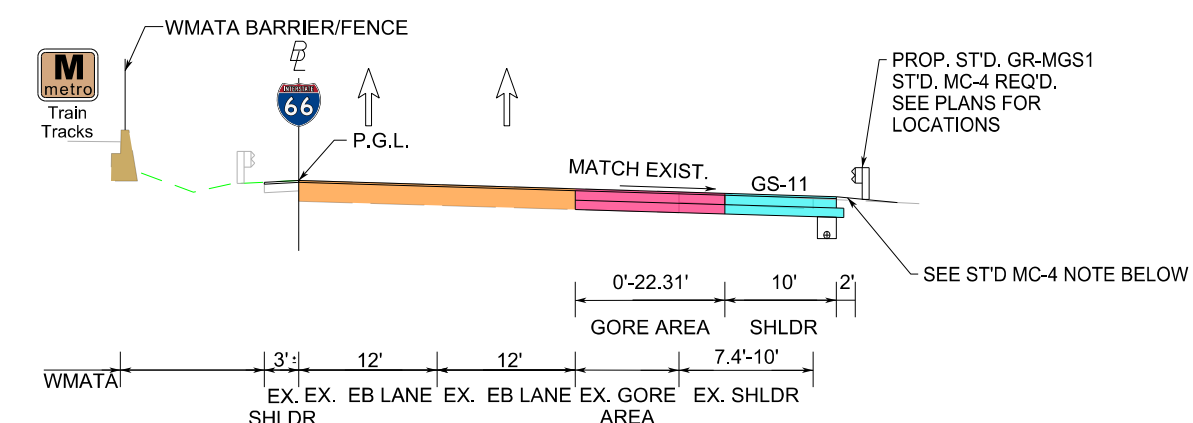
RAMP B
STA. 18+50 TO STA. 22+39



I-66 EASTBOUND
STA. 742+00 TO STA. 744+68



I-66 EASTBOUND
STA. 737+66 TO STA. 744+68



I-66 EASTBOUND
STA. 744+66 TO STA. 748+41

NOT TO SCALE NOT TO SCALE

LEGEND

- FULL DEPTH PAVEMENT
- FULL DEPTH SHOULDERS
- MILLING/RESURFACING
- SURFACE:** 2" ASPHALT CONC., TY. SM-12.5E
- INTERMEDIATE:** 2" ASPHALT CONC., TY. IM-19.0A
- BASE:** 6" ASPHALT CONC., TY. BM-25.0A
- SUBBASE #1:** 6" AGGR. BASE MAT'L, TY. I, SIZE 21A PUGMILL MIXED WITH 4% BY WT HYDRAULIC CEMENT (EXTENDED A MIN. 1' BEYOND EDGE OF MAINLINE PVMT)
- SUBBASE #2:** 6" CEMENT STABILIZED SUBGRADE WITH 12% HYDRAULIC CEMENT BY VOLUME EXTENDED 1' BEYOND EDGE OF MAINLINE PVMT.

- MILLING:** 2" DEPTH OF MILLING REQUIRED
- RESURFACING:** 2" ASPHALT CONC. TY. SM-12.5E

- NOTES:**
- FINAL PAVEMENT SECTIONS WILL BE VERIFIED BY THE LANE TEAM WITH THE MINIMUM BEING AS SHOWN & REQUIRED BY RFP.
 - UNDERDRAINS WILL BE PROVIDED IN ACCORDANCE WITH SECTION 2.6.1 OF THE RFP.
 - SUBBASE #2 MAY BE REPLACED WITH AN ADDITIONAL LAYER OF SUBBASE #1 WHEN WIDTH OF INSTALLATION IS 10 FT. OR LESS, PER RFP SECTION 2.6.1.
 - WHEN LIQUID ASPHALT IS UTILIZED FOR CURING, IT WILL COMPLY WITH VDOT STANDARDS AND SECTION 2.6.1 OF RFP.
 - ST'D MC-4 WILL BE IMPLEMENTED AS REQUIRED BY VDOT RDM, WHERE NECESSARY.

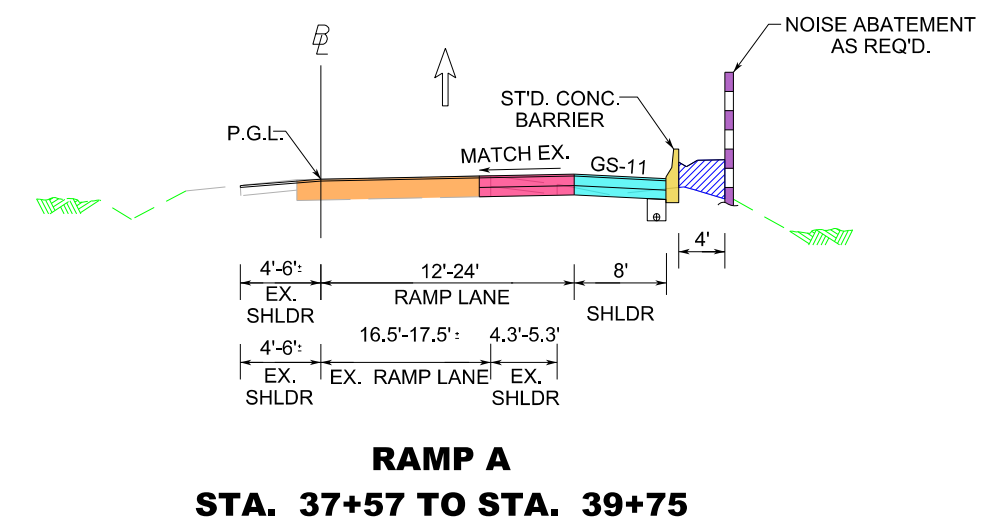
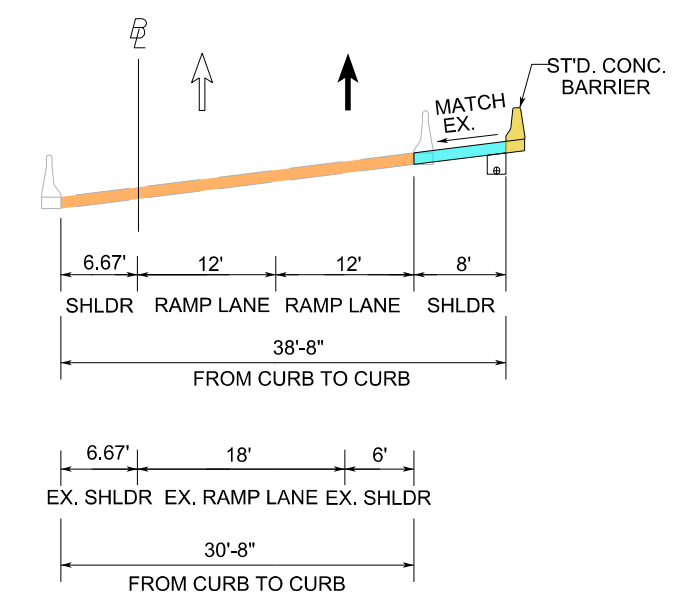
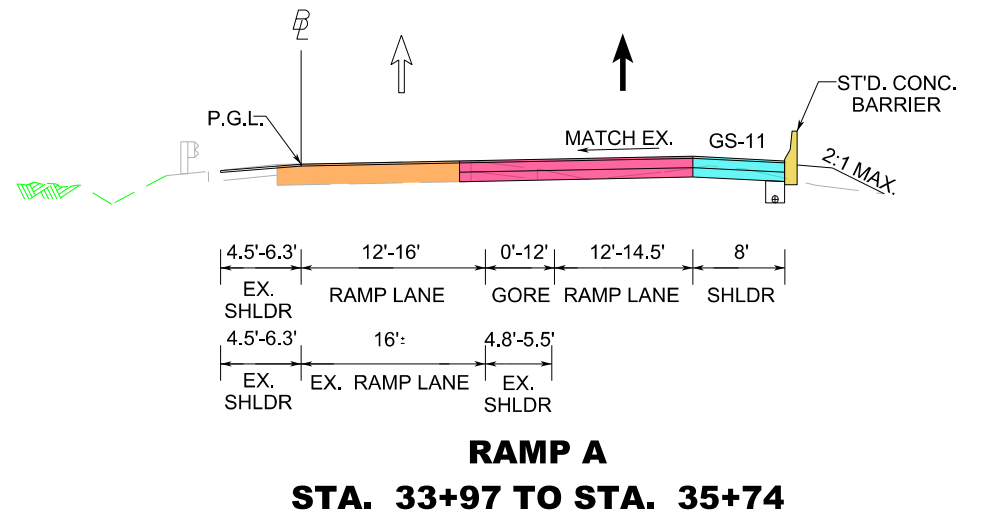
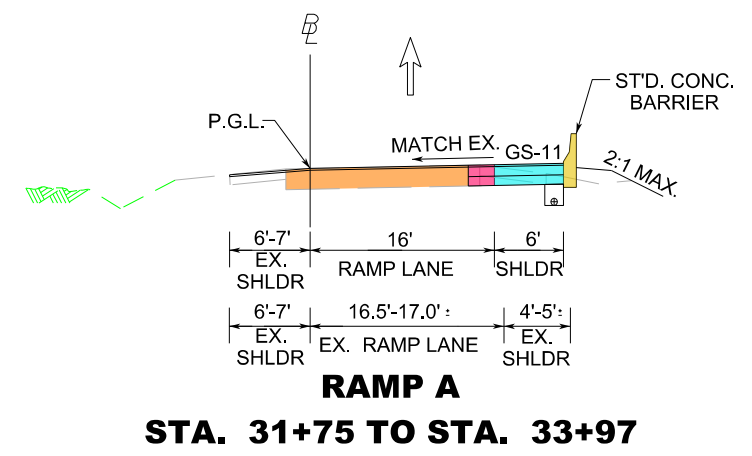
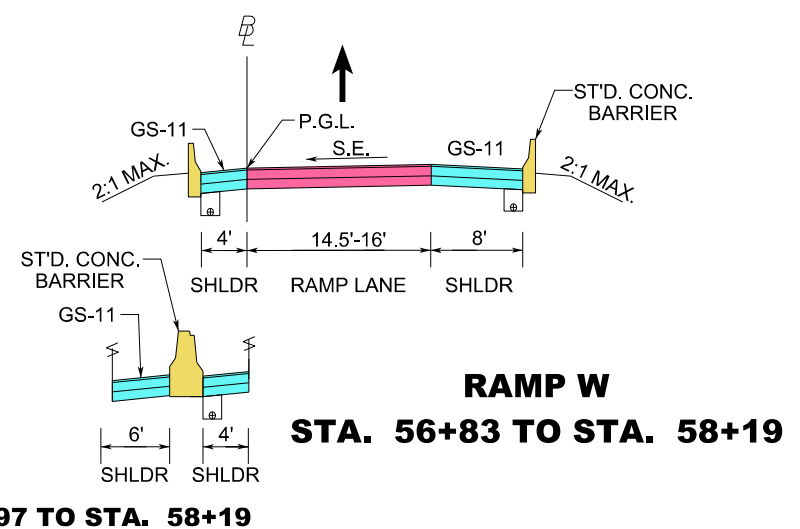
Note: Landscaping to be Provided per RFP Requirements

VDOT DEPARTMENT OF TRANSPORTATION	
I-66 INSIDE THE BELTWAY - RTE. 7 RAMP MODIFICATION	
LANE	rda
PROJECT 0066-96A-493	SHEET NO. 2A(1)

OPTION 1 TYPICAL SECTIONS

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

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	66	0066-96A-493	2A(2)



NOT TO SCALE NOT TO SCALE

LEGEND

- FULL DEPTH PAVEMENT
 - FULL DEPTH SHOULDERS
 - MILLING/RESURFACING
- SURFACE:** 2" ASPHALT CONC., TY. SM-12.5E
INTERMEDIATE: 2" ASPHALT CONC., TY. IM-19.0A
BASE: 6" ASPHALT CONC., TY. BM-25.0A
SUBBASE #1: 6" AGGR. BASE MAT'L, TY. I, SIZE 21A
 PUGMILL MIXED WITH 4% BY WT HYDRAULIC CEMENT
 (EXTENDED A MIN. 1' BEYOND EDGE OF MAINLINE PVMT)
SUBBASE #2: 6" CEMENT STABILIZED SUBGRADE WITH 12% HYDRAULIC CEMENT
 BY VOLUME EXTENDED 1' BEYOND EDGE OF MAINLINE PVMT.

- MILLING:** 2" DEPTH OF MILLING REQUIRED
- RESURFACING:** 2" ASPHALT CONC. TY. SM-12.5E

- NOTES:**
- FINAL PAVEMENT SECTIONS WILL BE VERIFIED BY THE LANE TEAM WITH THE MINIMUM BEING AS SHOWN & REQUIRED BY RFP.
 - UNDERDRAINS WILL BE PROVIDED IN ACCORDANCE WITH SECTION 2.6.1 OF THE RFP.
 - SUBBASE #2 MAY BE REPLACED WITH AN ADDITIONAL LAYER OF SUBBASE #1 WHEN WIDTH OF INSTALLATION IS 10 FT. OR LESS, PER RFP SECTION 2.6.1.
 - WHEN LIQUID ASPHALT IS UTILIZED FOR CURING, IT WILL COMPLY WITH VDOT STANDARDS AND SECTION 2.6.1 OF RFP.
 - ST'D MC-4 WILL BE IMPLEMENTED AS REQUIRED BY VDOT RDM, WHERE NECESSARY.

Note: Landscaping to be Provided per RFP Requirements

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 INSIDE THE BELTWAY - RTE. 7 RAMP MODIFICATION

LANE

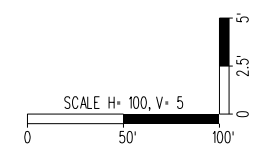
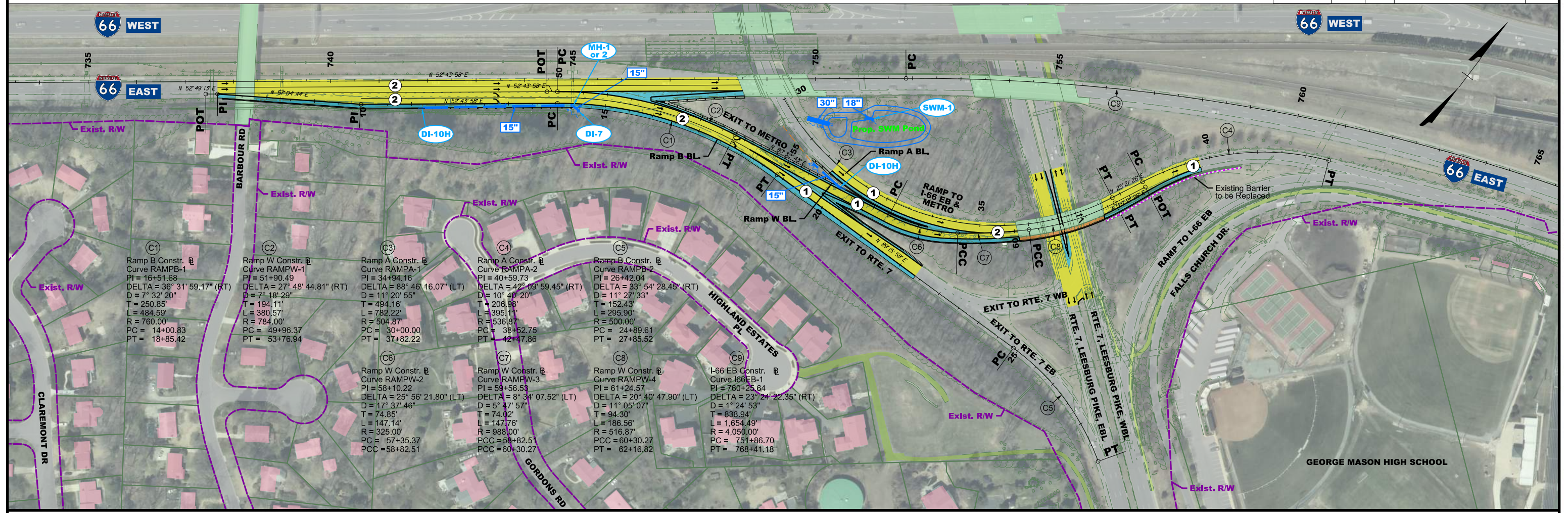
rda

PROJECT: 0066-96A-493
 SHEET NO.: 2A(2)

Option 1 Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	0066-96A-493	3



VDOT DEPARTMENT OF TRANSPORTATION
 I-66 INSIDE THE BELTWAY - RTE. 7 RAMP MODIFICATION

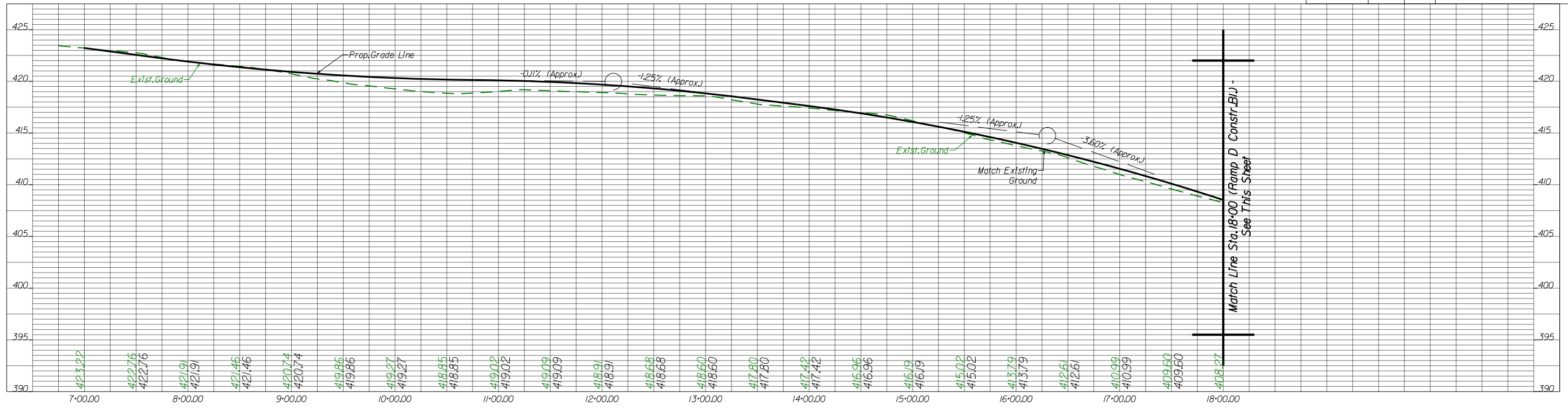
LANE

rda PROJECT 0066-96A-493 SHEET NO. 3

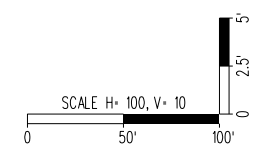
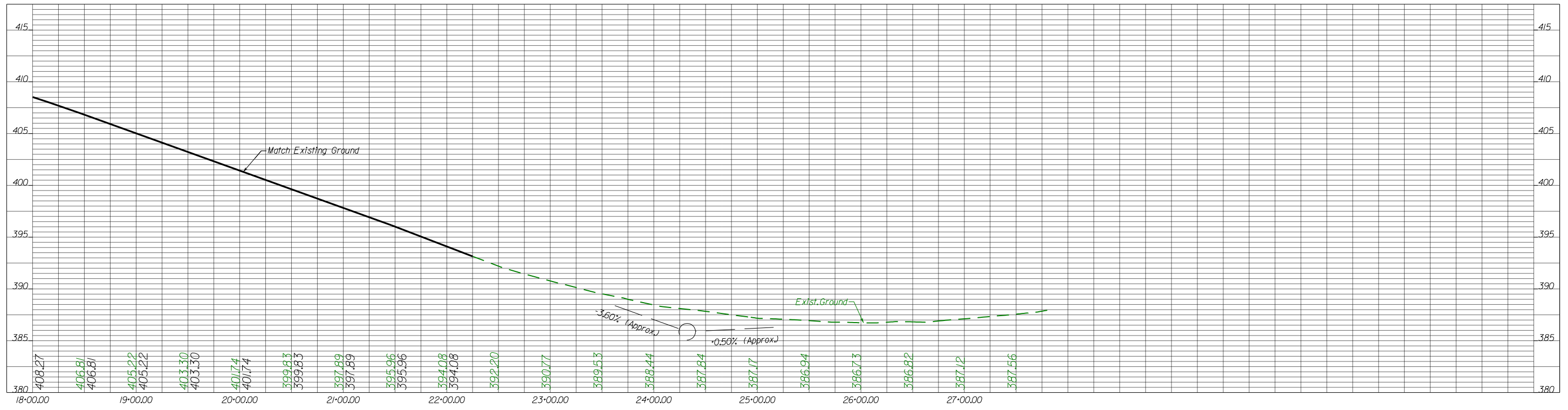
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	0066-96A-493	3A

I-66 EASTBOUND RAMP B



I-66 EASTBOUND RAMP B (Cont.)

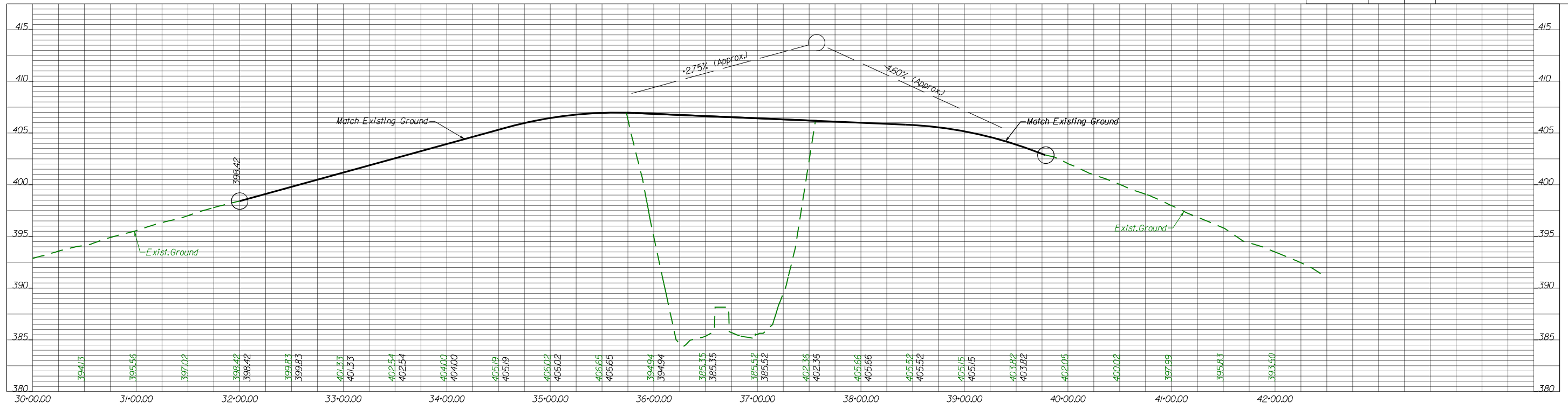


DEPARTMENT OF TRANSPORTATION I-66 INSIDE THE BELTWAY - RTE. 7 RAMP MODIFICATION			
PROJECT 0066-96A-493	SHEET NO. 3A		

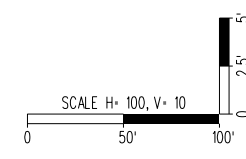
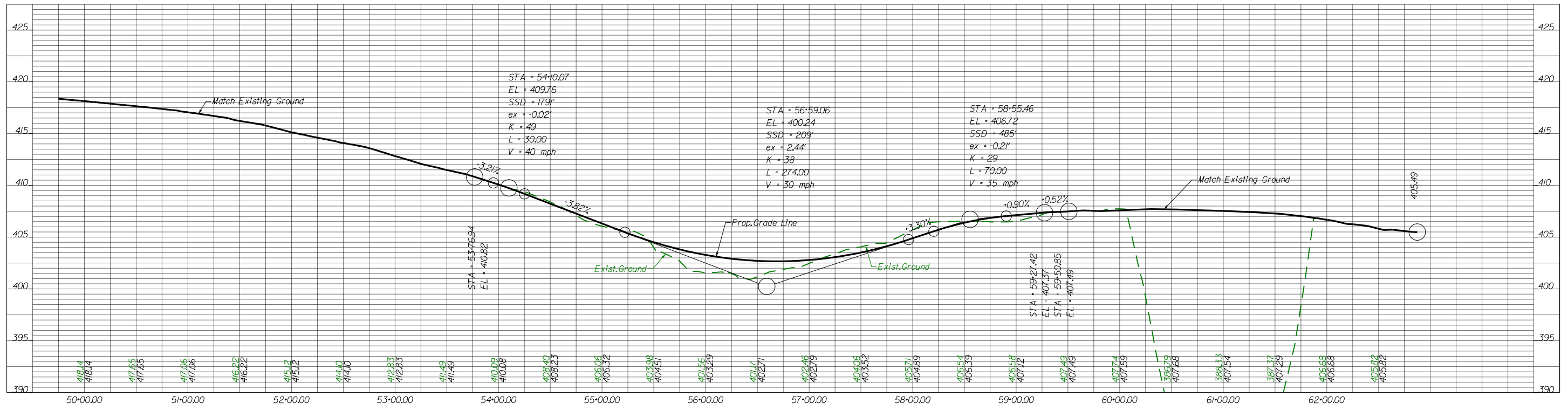
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	0066-96A-493	3B


I-66 EASTBOUND RAMP A



I-66 EASTBOUND RAMP W



VDOT DEPARTMENT OF TRANSPORTATION
 I-66 INSIDE THE BELTWAY - RTE. 7 RAMP MODIFICATION

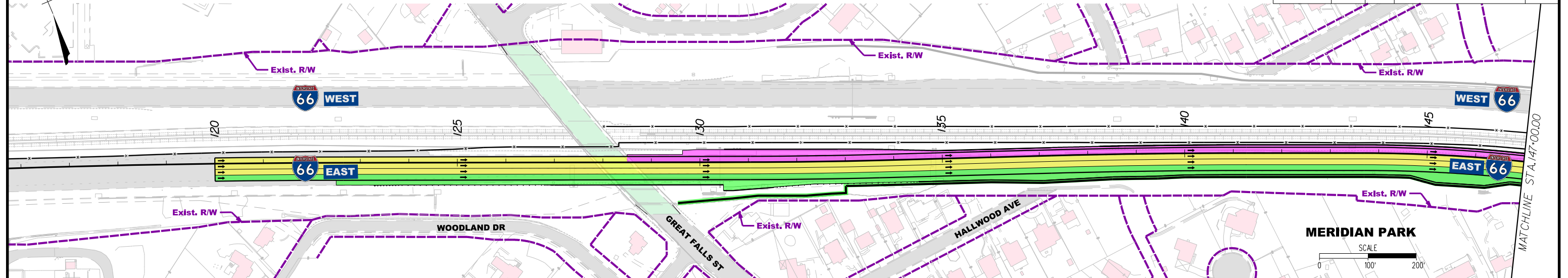
LANE  **rda**

PROJECT: 0066-96A-493 SHEET NO.: 3B

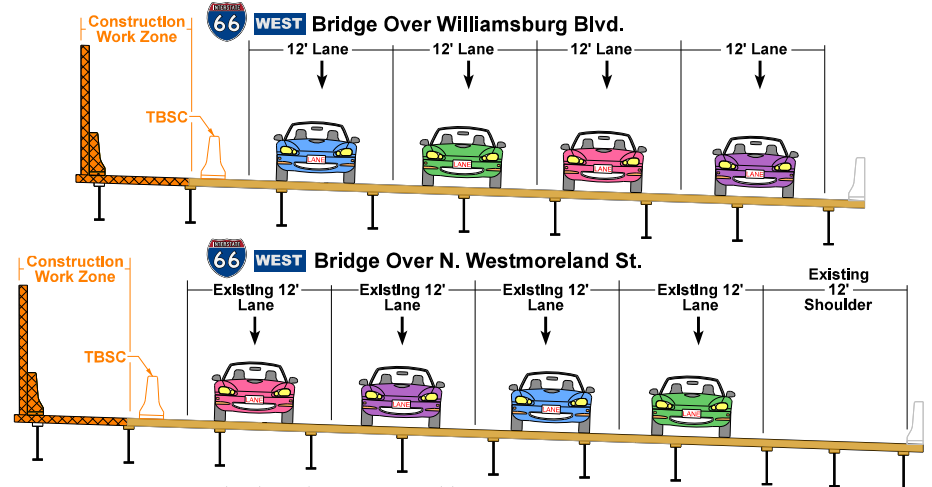
Base Scope Temporary Traffic Control Plan

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

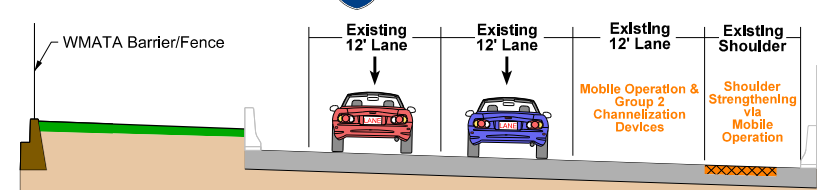
REVISED	STATE	ROUTE	STATE PROJECT		SHEET NO.
			PROJECT		
	VA.	66	(F0)0066 - 96A - 417		1



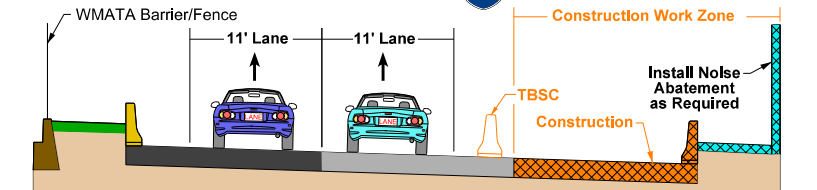
Independent Select Westbound Work



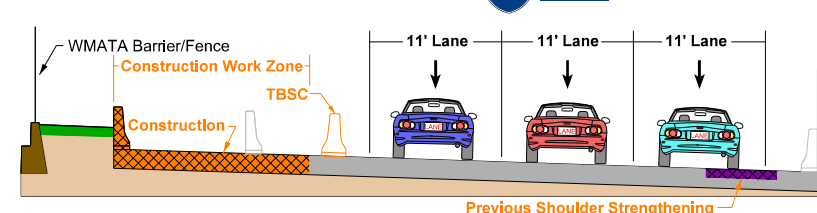
Phase 1A: I-66 EAST (Not Schematically Shown)



Phase 2: I-66 EAST



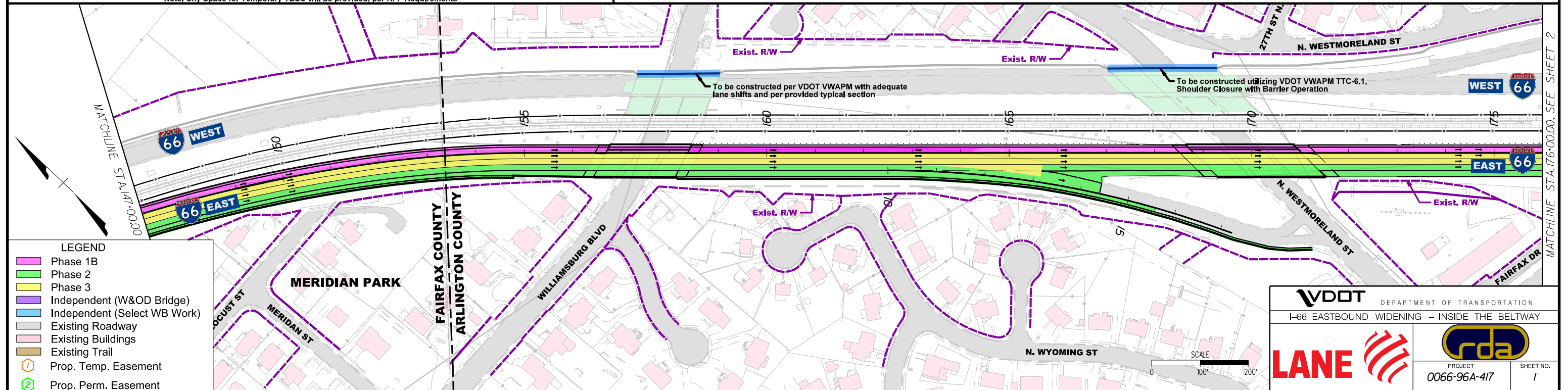
Phase 1B: I-66 EAST



Phase 3: I-66 EAST (Typical Section Not Provided)

Phase 3 generally consists of milling/resurfacing and final pavement marking/signage to achieve substantial completion of the project's improvements. All work will be per VDOT's VWAPM and a majority of the work will be completed during allowable work hours for night time operations, to minimize impacts on traffic.

Note: Shy Space for Temporary TBSC will be provided, per RFP Requirements



LEGEND

- Phase 1B
- Phase 2
- Phase 3
- Independent (W&OD Bridge)
- Independent (Select WB Work)
- Existing Roadway
- Existing Buildings
- Existing Trail
- Prop. Temp. Easement
- Prop. Perm. Easement

VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

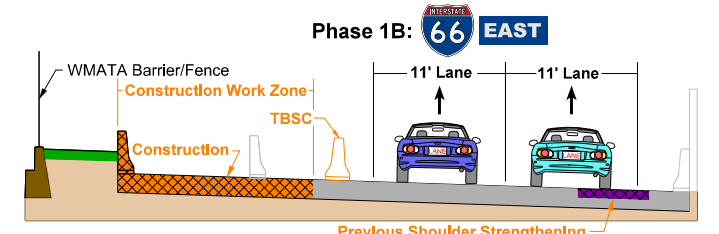
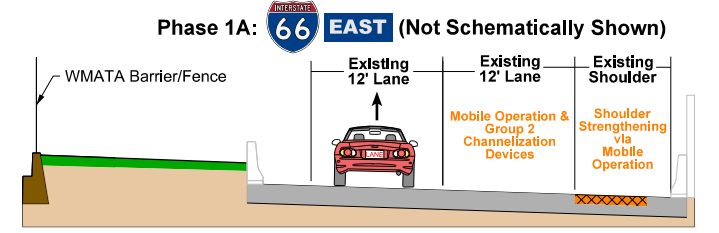
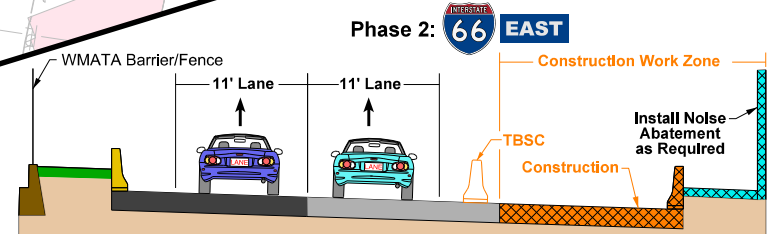
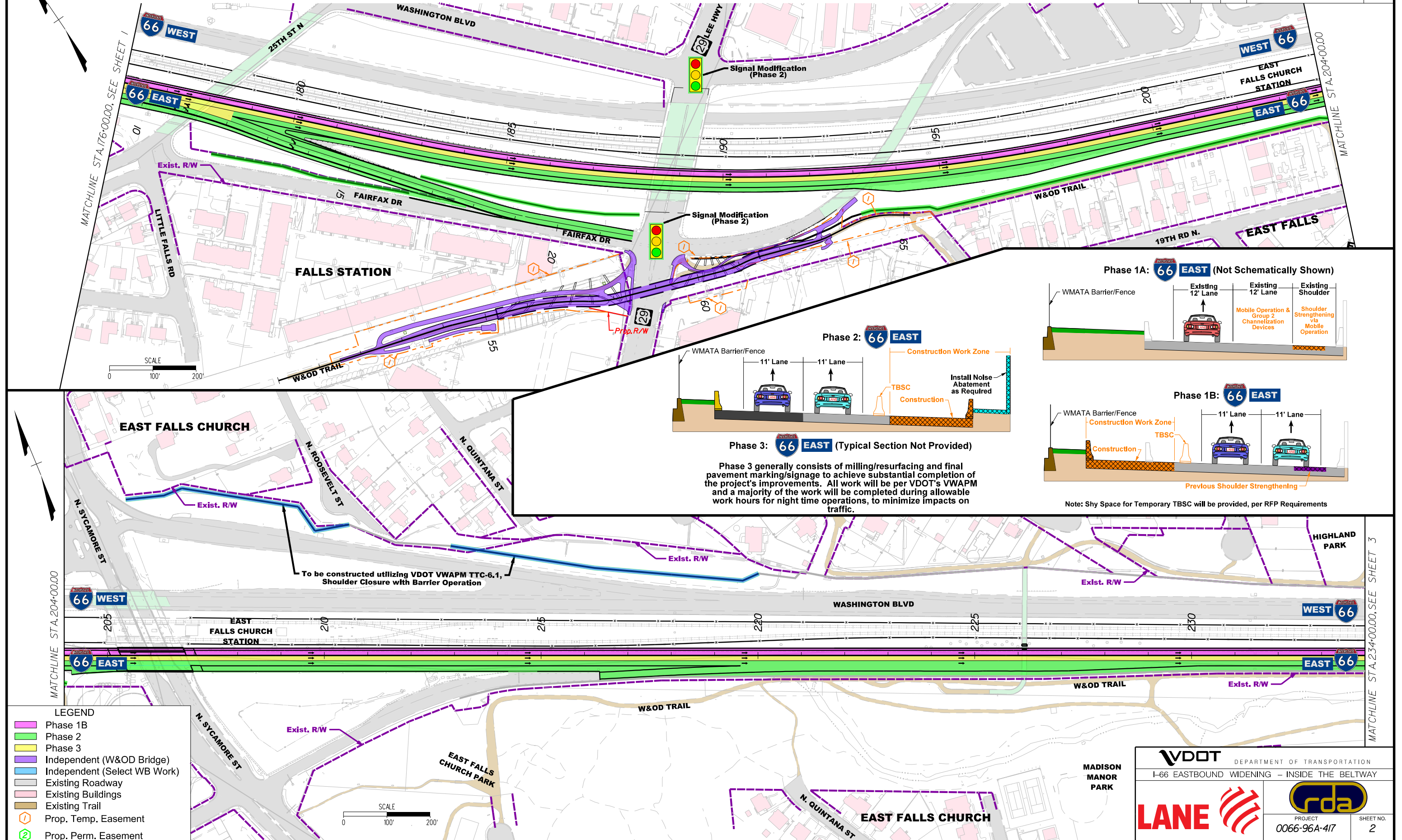
rda

PROJECT: 0066-96A-417 SHEET NO.: 1

Base Scope Temporary Traffic Control Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	2



Phase 3: I-66 EAST (Typical Section Not Provided)

Phase 3 generally consists of milling/resurfacing and final pavement marking/signage to achieve substantial completion of the project's improvements. All work will be per VDOT's VWAPM and a majority of the work will be completed during allowable work hours for night time operations, to minimize impacts on traffic.

Note: Shy Space for Temporary TBS will be provided, per RFP Requirements

- LEGEND**
- Phase 1B
 - Phase 2
 - Phase 3
 - Independent (W&OD Bridge)
 - Independent (Select WB Work)
 - Existing Roadway
 - Existing Buildings
 - Existing Trail
 - Prop. Temp. Easement
 - Prop. Perm. Easement

VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

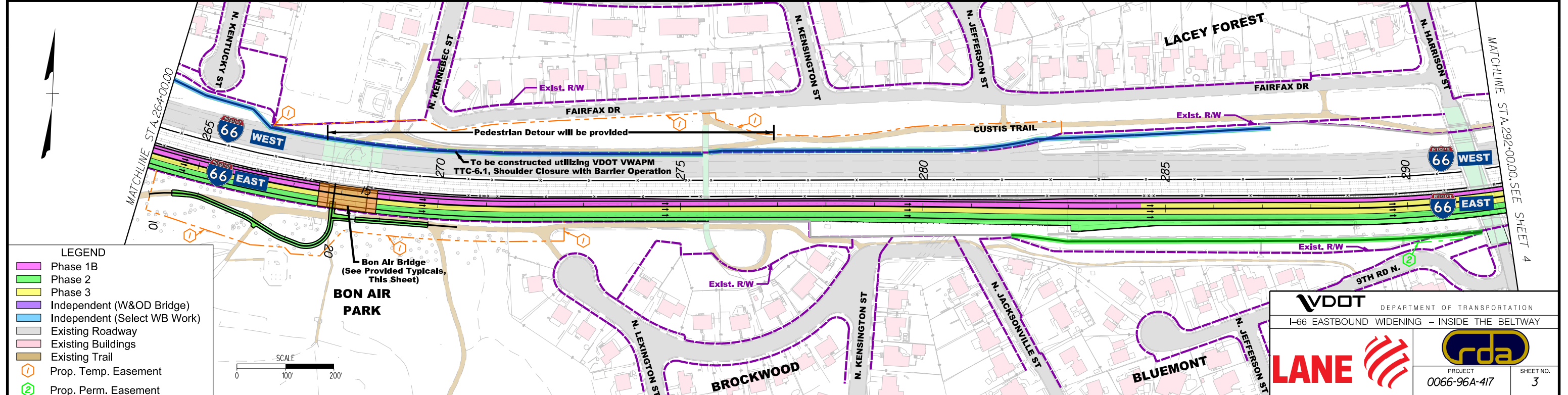
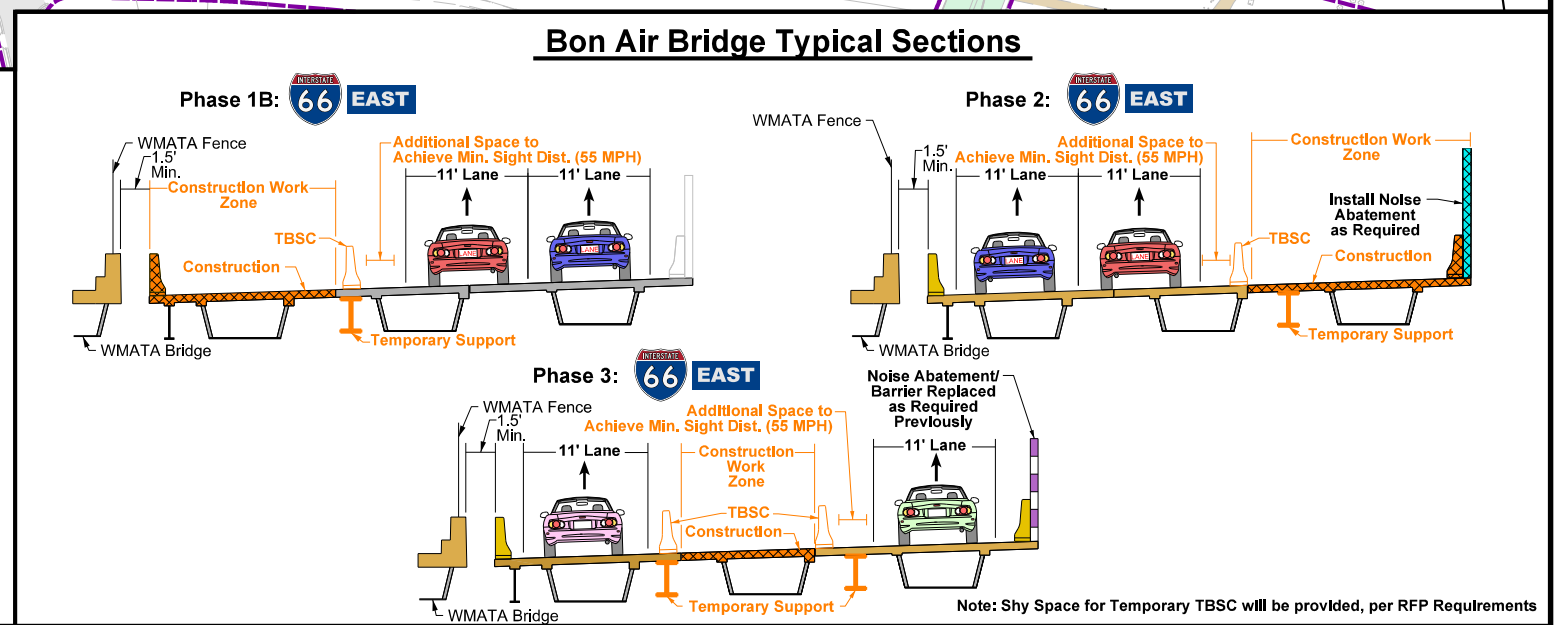
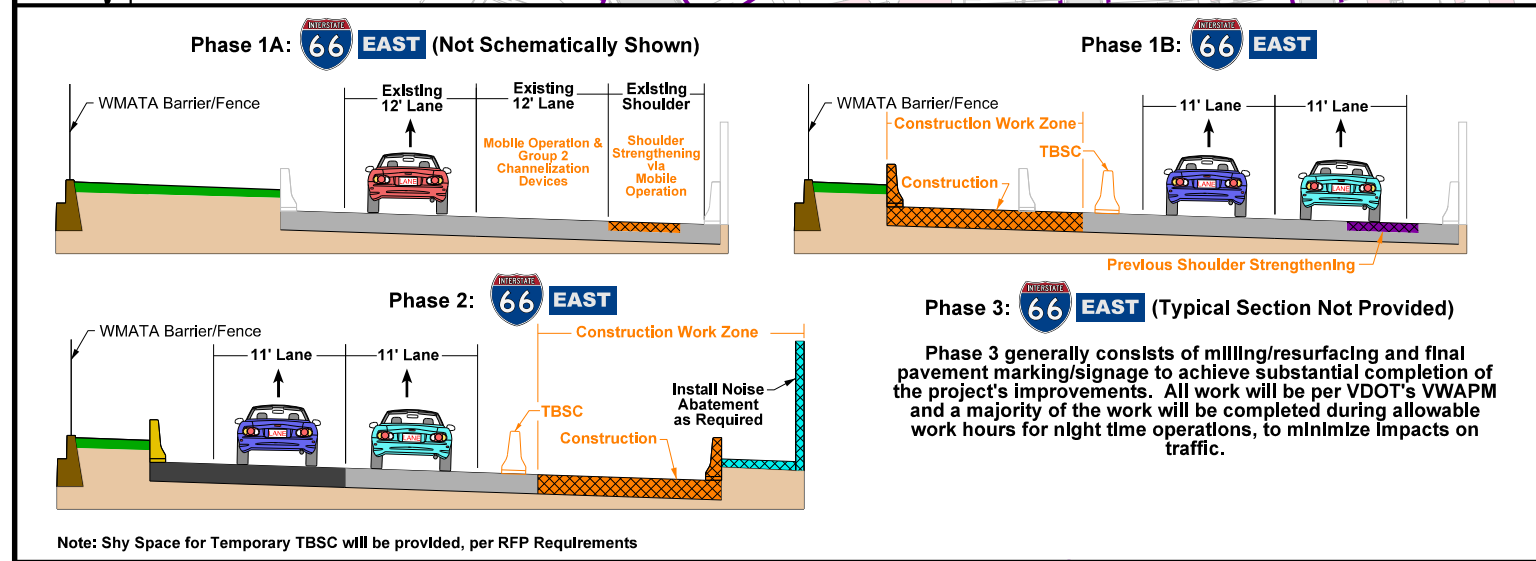
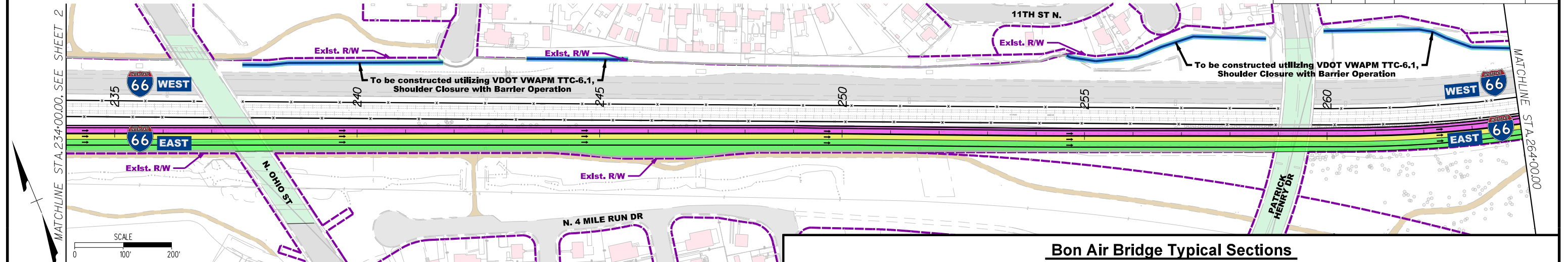
LANE

rda

PROJECT: 0066-96A-417
SHEET NO.: 2

Base Scope Temporary Traffic Control Plan

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
		VA.	66	(F0)0066 - 96A - 417	3



- LEGEND**
- Phase 1B
 - Phase 2
 - Phase 3
 - Independent (W&OD Bridge)
 - Independent (Select WB Work)
 - Existing Roadway
 - Existing Buildings
 - Existing Trail
 - Prop. Temp. Easement
 - Prop. Perm. Easement

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

LANE

rda

PROJECT: 0066-96A-417
 SHEET NO.: 3

Base Scope Temporary Traffic Control Plan

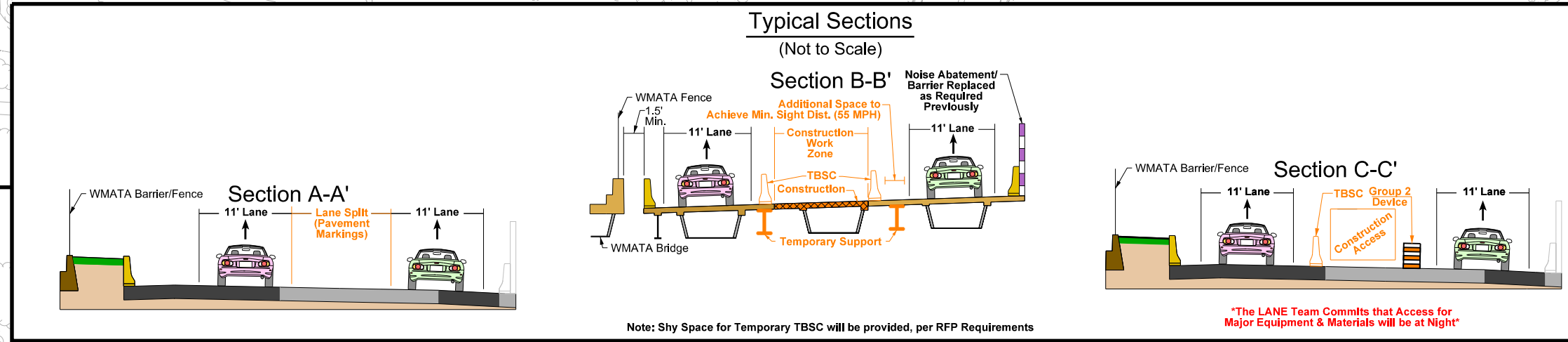
Split Work Zone Details at Bon Air Bridge

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	(F0)0066 - 96A - 417	3A

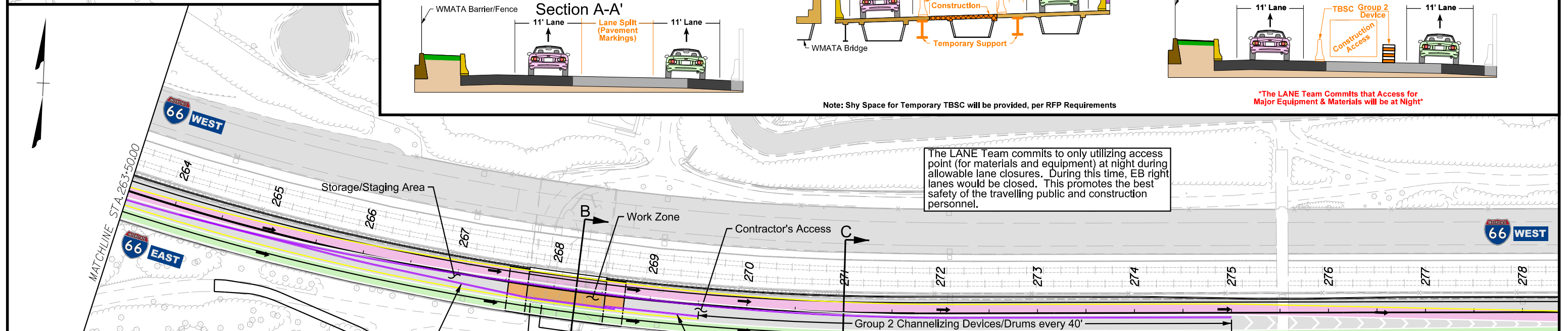


Note: Advance signage for the channelizing split will be provided per VWAPM.



Note: Shy Space for Temporary TBSC will be provided, per RFP Requirements

The LANE Team commits to only utilizing access point (for materials and equipment) at night during allowable lane closures. During this time, EB right lanes would be closed. This promotes the best safety of the travelling public and construction personnel.



- Legend**
- Exist. Survey
 - ▭ Exist. Pavement
 - Traffic Direction Arrow
 - Prop. Design
 - ▬ Temporary Barrier
 - ▬ I-66 EB Right Lane
 - ▬ I-66 EB Left Lane
 - ▬ Work Zone

Barrier offset to facilitate sight distance. St'd. flare provided.

Offset barriers to achieve adequate sight distance.

St'd. Transition & Signage to be installed per VWAPM.

VDOT DEPARTMENT OF TRANSPORTATION
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY

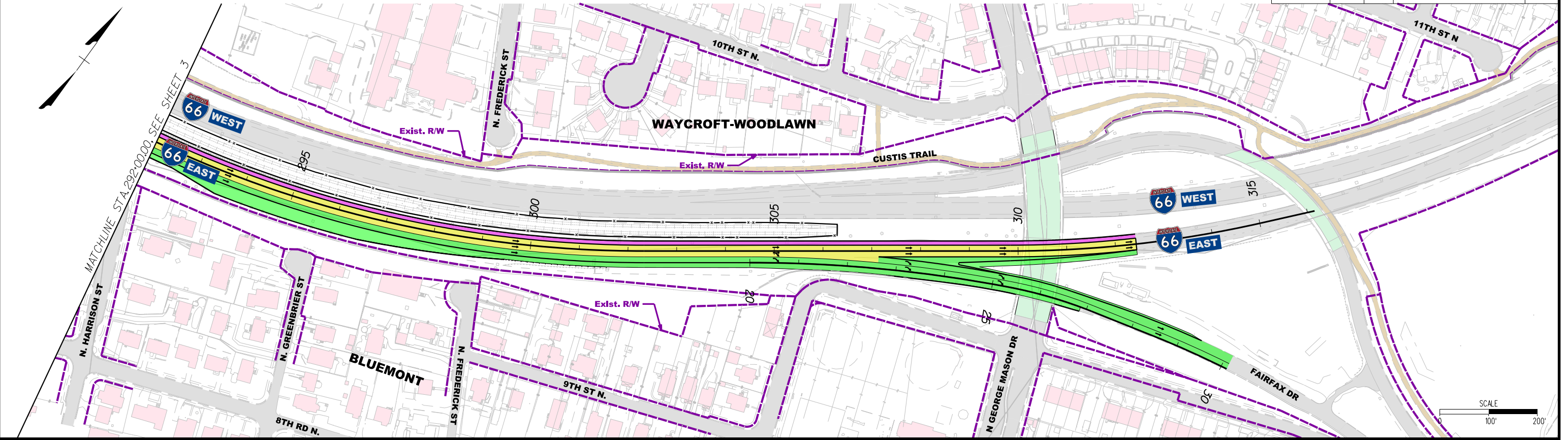
LANE

PROJECT: 0066-96A-417
SHEET NO.: 3A

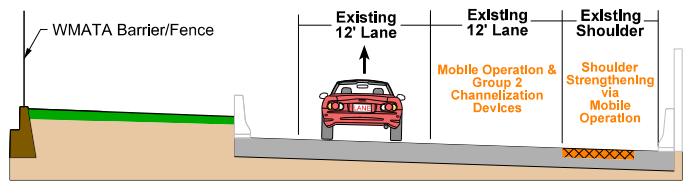
Base Scope Temporary Traffic Control Plan

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

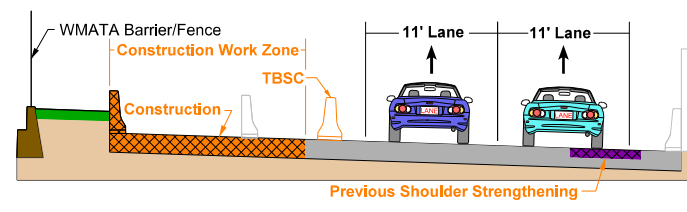
REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	66	(F0)0066 - 96A - 417	4



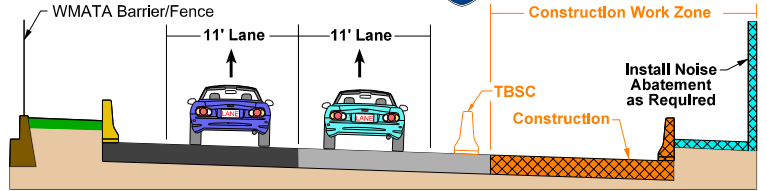
Phase 1A: **66 EAST** (Not Schematically Shown)



Phase 1B: **66 EAST**



Phase 2: **66 EAST**



Note: Shy Space for Temporary TBSC will be provided, per RFP Requirements

Phase 3: **66 EAST** (Typical Section Not Provided)

Phase 3 generally consists of milling/resurfacing and final pavement marking/signage to achieve substantial completion of the project's improvements. All work will be per VDOT's VWAPM and a majority of the work will be completed during allowable work hours for night time operations, to minimize impacts on traffic.

LEGEND

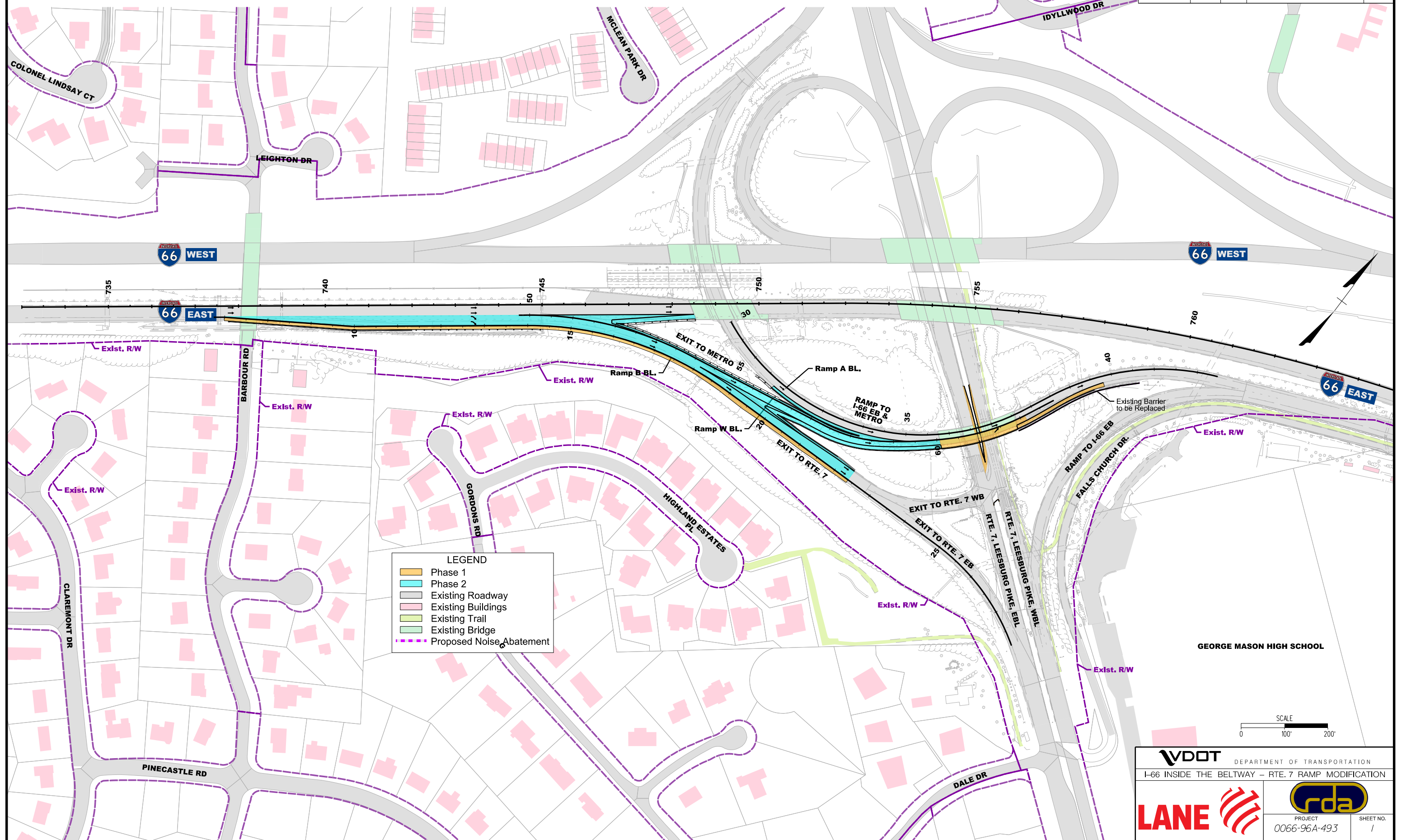
- Phase 1B
- Phase 2
- Phase 3
- Independent (W&OD Bridge)
- Independent (Select WB Work)
- Existing Roadway
- Existing Buildings
- Existing Trail
- Prop. Temp. Easement
- Prop. Perm. Easement

 DEPARTMENT OF TRANSPORTATION	
I-66 EASTBOUND WIDENING - INSIDE THE BELTWAY	
PROJECT 0066-96A-417	SHEET NO. 4

Option 1 Temporary Traffic Control Plan

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	66	0066-96A-493	1



LEGEND

- Phase 1
- Phase 2
- Existing Roadway
- Existing Buildings
- Existing Trail
- Existing Bridge
- Proposed Noise Abatement

VDOT DEPARTMENT OF TRANSPORTATION
 I-66 INSIDE THE BELTWAY – RTE. 7 RAMP MODIFICATION

LANE

rda

PROJECT: 0066-96A-493 SHEET NO.: 1



STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT
	NHPP-066-1(356)	66	0066-96A-417, B675, B682
NBIS Number: 00000000000187 00000000000189		UPC No.	108424
Federal Oversight Code: NA		FHWA Construction and Scour Code:	X271-SN

DESIGN EXCEPTION(S):

None.

GENERAL NOTES:

Width: 64'-0" Face to face of curbs. Includes widening of 8'-0" on left side of traffic (I-66 EBL).

72'-0" face-to-face of curbs (I-66 WBL).

Span layout:

EBL: 43'-10 1/2" - 81'-0" - 43'-10 1/2" simple plate girder spans.
WBL: 43'-10" - 80'-9 3/8" - 43'-10" simple plate girder spans.

Capacity:

HS20-44 Loading and modified military loading.
HL-93 Loading for widening.

Specifications:

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

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

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

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

For I-66 EBL, structural steel within the bridge widening shall be ASTM A709, Grade 50 except in bearings and sole plates. Structural steel in bearing and sole plates shall be ASTM A709 Grade 36.

State structure numbers of the existing bridges are 000-2069 (EBL) and 000-2070 (WBL).

Existing plan numbers are 188-09, 188-09A, 188-09B, and 188-09C.

The existing structure is designated a Type B structure in accordance with Sec. 411. Only existing soundwall contains lead.

Joint closure at piers shall be full joint closure. Joint closure concrete shall be LMC-VE concrete for Latex-Modified Concrete Early Strength Overlays.

New steel girder and cross frames shall be painted brown (595-30277).

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

For I-66 EBL, exposed surfaces of the existing substructures (piers, abutments, wingwalls, etc.) shall be water-proofed using Tex. Cote 300 after the repairs are complete.

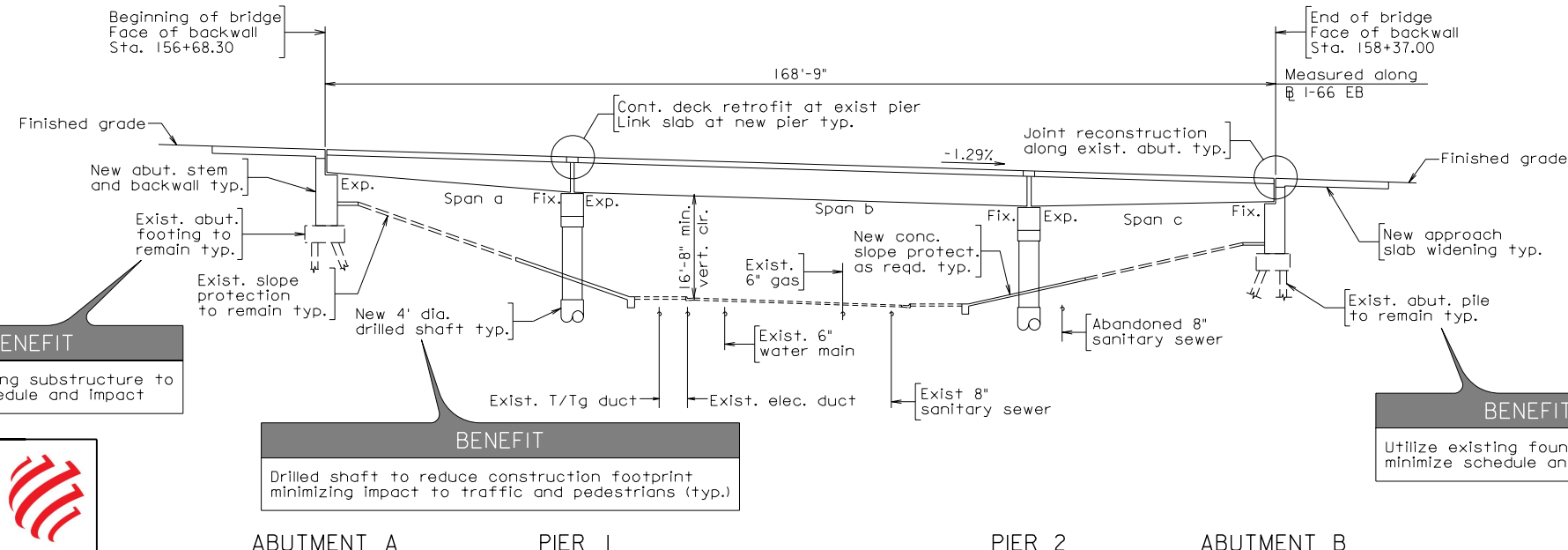
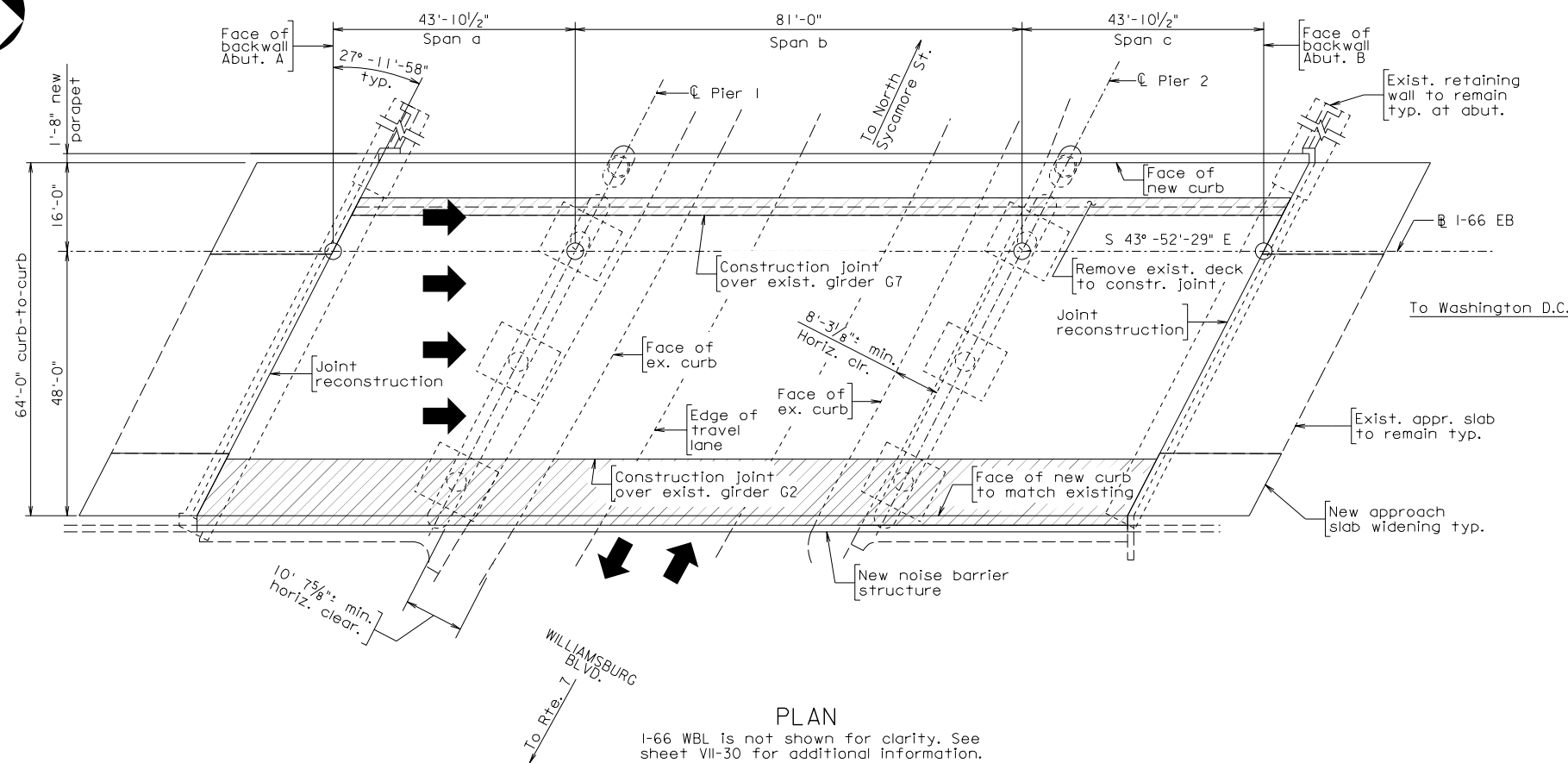


COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED BRIDGE WIDENING ON
I-66 EBL AND NOISE BARRIER ON WBL OVER
WILLIAMSBURG BLVD., ARLINGTON COUNTY
0.1 MILES EAST OF FAIRFAX CO. LINE
PROJ. 0066-96A-417, B675, B682

Recommended for Approval: _____
The Lane Construction Corporation Date

Approved: _____
Chief Engineer Date

Date: September 27, 2017 © 2017, Commonwealth of Virginia Sheet VII-29



BENEFIT
Utilize existing substructure to minimize schedule and impact

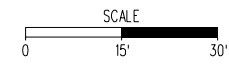
BENEFIT
Drilled shaft to reduce construction footprint minimizing impact to traffic and pedestrians (typ.)

BENEFIT
Utilize existing foundation to minimize schedule and impact



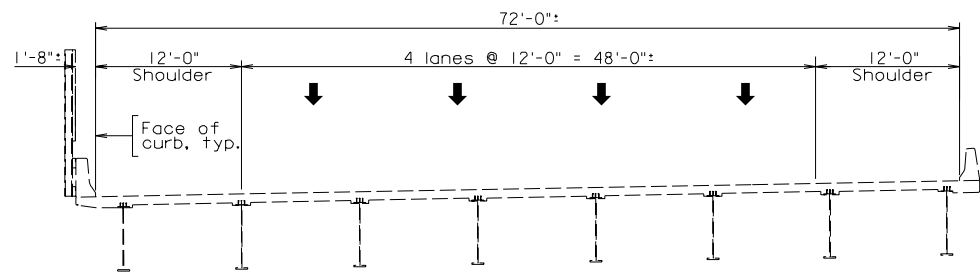
PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Lisa Grube
DRAWN:	Marlah Safritt
CHECKED:	

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

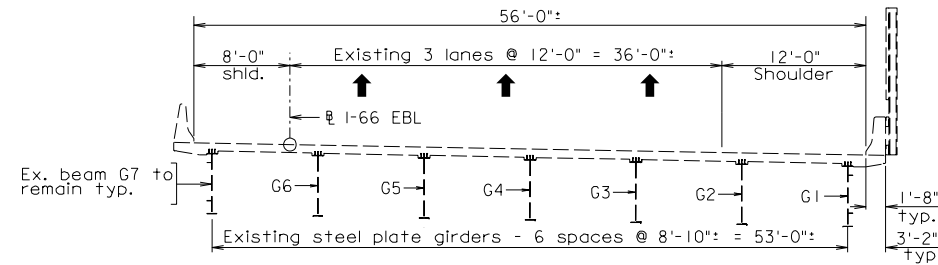


No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		

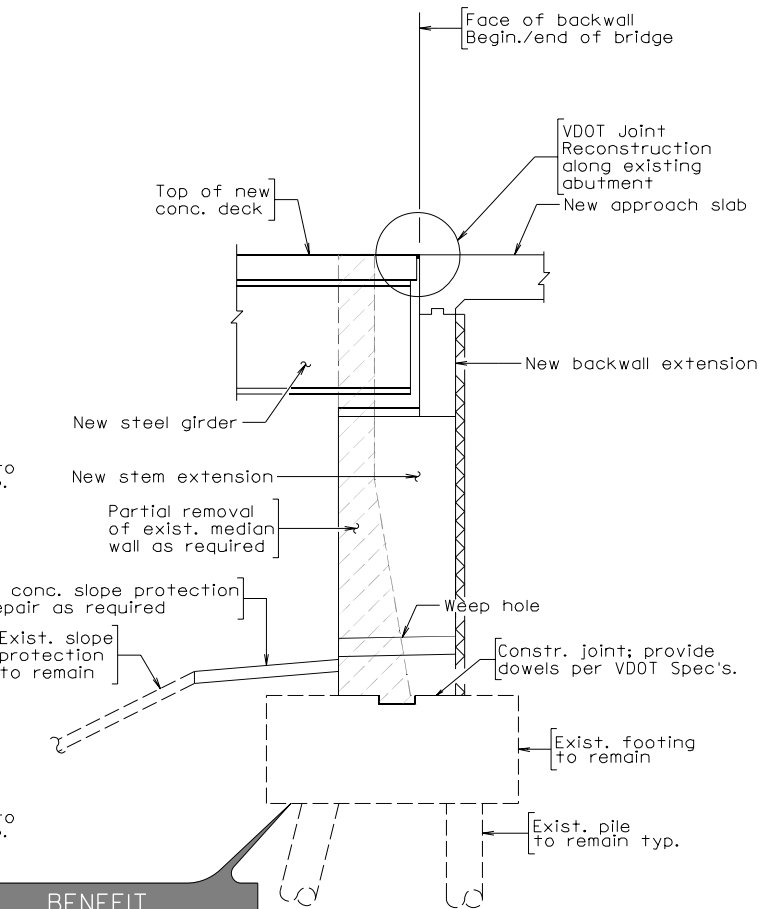
STATE	FEDERAL AID	ROUTE	STATE	SHEET NO.
VA.	---	66	0066-96A-417, B675, B682	VII-30



I-66 WB - EXIST. TRANS. SECTION

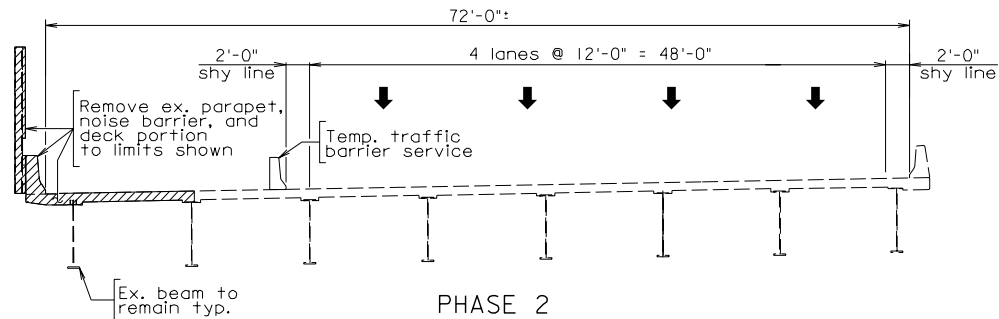


I-66 EB - EXIST. TRANS. SECTION

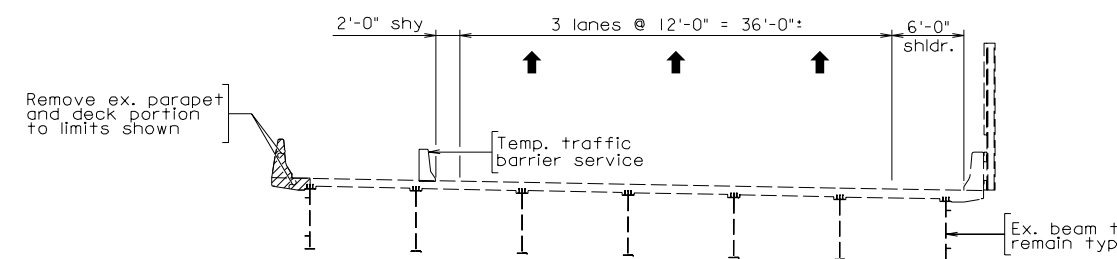


BENEFIT
Utilizing existing structure to minimize impact to WMATA

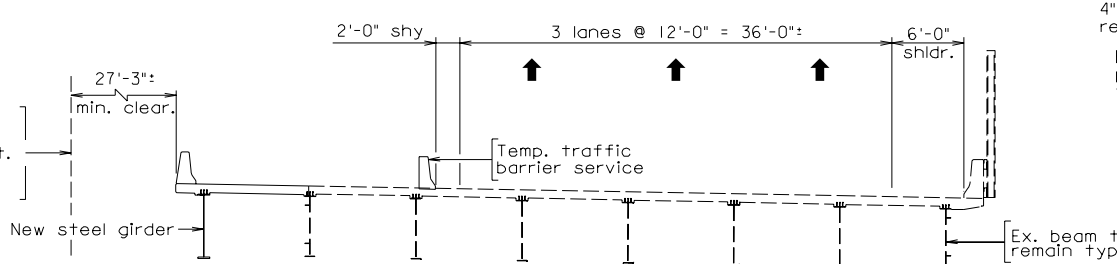
TYP. ABUT. SECTION AT MEDIAN-SIDE WIDENING (I-66 EB BRIDGE)



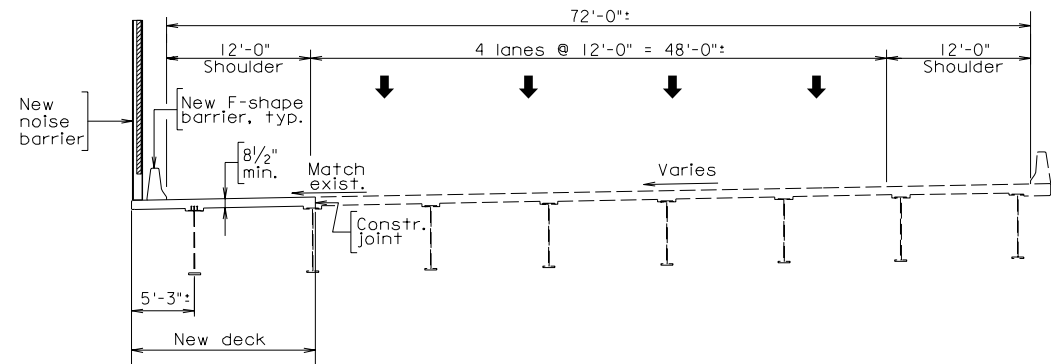
PHASE 2



PHASE IB - ACTIVITY I

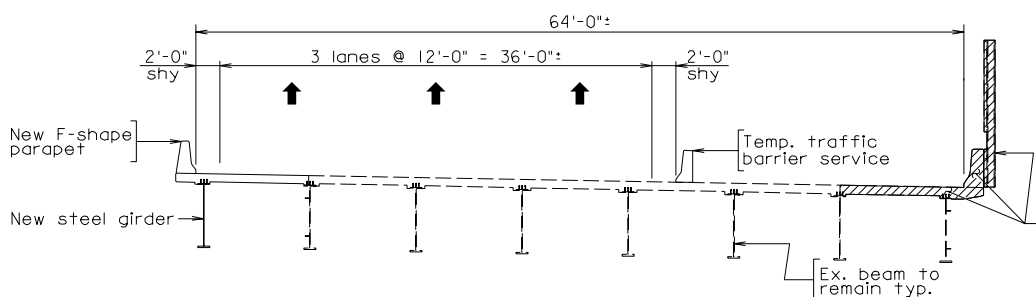


PHASE IB - ACTIVITY II
For additional info., see FINAL TRANSVERSE SECTION



FINAL TRANSVERSE SECTION

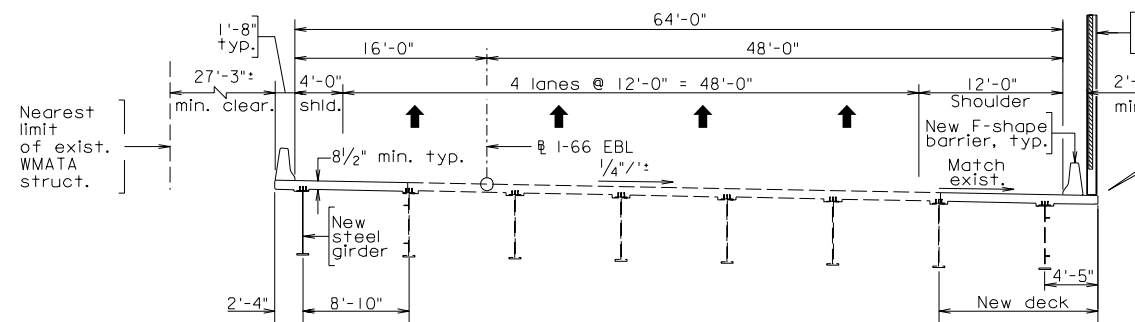
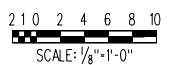
I-66 WB CONSTRUCTION SEQUENCE



PHASE 2

For additional info., see FINAL TRANSVERSE SECTION

BENEFIT
Robust support for new noise barrier with no modification to existing girders (typical)



FINAL TRANSVERSE SECTION

I-66 EB CONSTRUCTION SEQUENCE

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
I-66 OVER WILLIAMSBURG BLVD. DETAILS					
No.	Description	Date	Designed: LKG Drawn: MKS Checked: MKS	Date	Plan No. Sheet No.
	Revisions			Sep. 2017	188-09D VII-30



STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT
	NHPP-066-1(356)	66	0066-96A-417, B677, B683
NBIS Number: 00000000000183 00000000000181		UPC No.	108424
Federal Oversight Code: NA		FHWA Construction and Scour Code:	X271-SN

DESIGN EXCEPTION(S):

None.

GENERAL NOTES:

- Width: 64'-0" face-to-face of curbs. Includes the widening of 8'-0" on left side of traffic (I-66 EBL).
83'-8" face-to-face of curbs (I-66 WBL).
- Span layout:
EBL: 65'-6 1/2" - 92'-6" - 65'-6 1/2" simple steel plate girder spans.
WBL: 65'-5 7/8" - 92'-4" - 65'-5 7/8" simple steel plate girder spans.
- Capacity:
HS20-44 Loading and modified military loading
HL-93 Loading for widening.
- Specifications:
Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.
Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT Modifications.
Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

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

For I-66 EBL, all structural steel within the widened portion of structure, except in bearings and sole plates, shall be ASTM A709, Grade 50. Structural Steel in bearing and sole plates shall be ASTM A709 Grade 36.

State structure numbers of the existing bridges are 000-2067 (EBL) and 000-2066 (WBL).

Existing plan numbers are 188-11, 188-11A, 188-11B, 188-11C, and 188-11D.

The existing structure is designated a Type B structure in accordance with Sec. 411. Only existing soundwall contains lead.

Joint closure at piers shall be full joint closure. Joint closure concrete shall be LMC-VE concrete for Latex-Modified Concrete Early Strength Overlays.

New steel girder and cross frames shall be painted brown (595-30277).

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

For I-66 EBL, exposed surfaces of the existing substructures (piers, abutments, wingwalls, etc.) shall be water-proofed using Tex. Cote 300 after the repairs are complete.



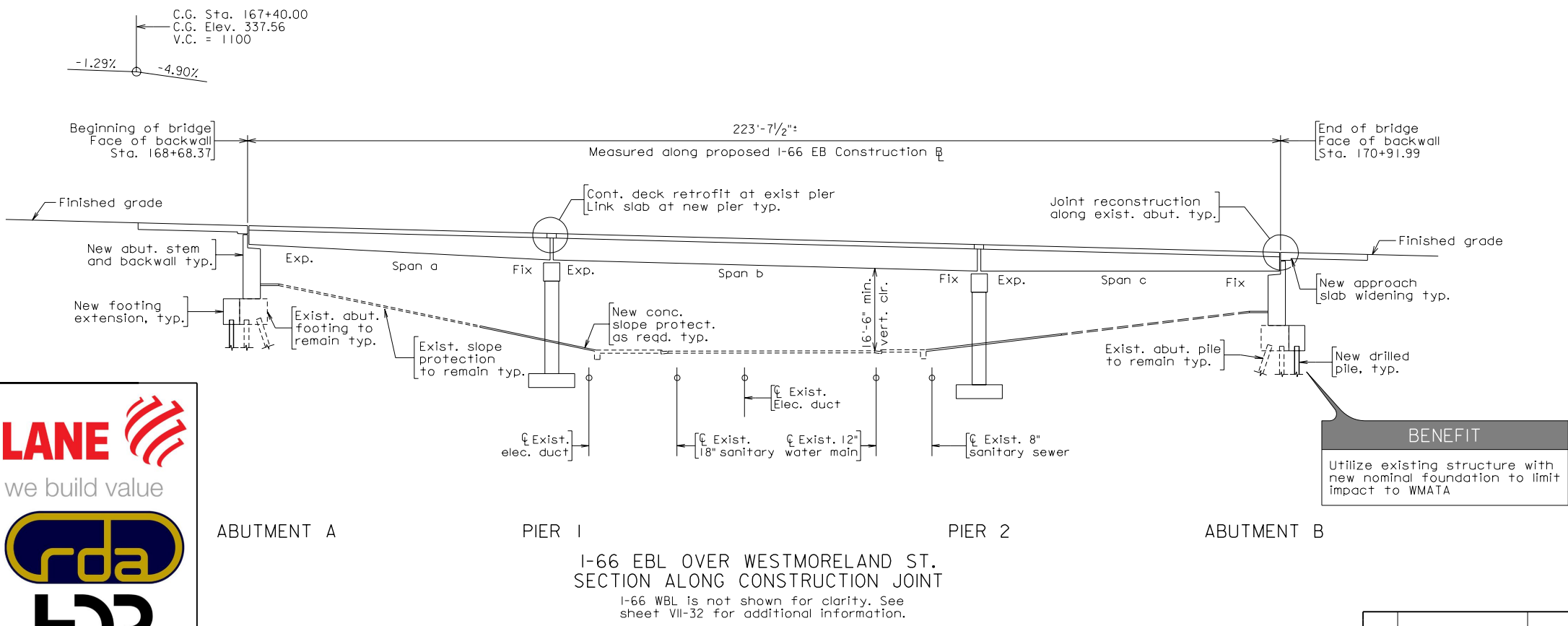
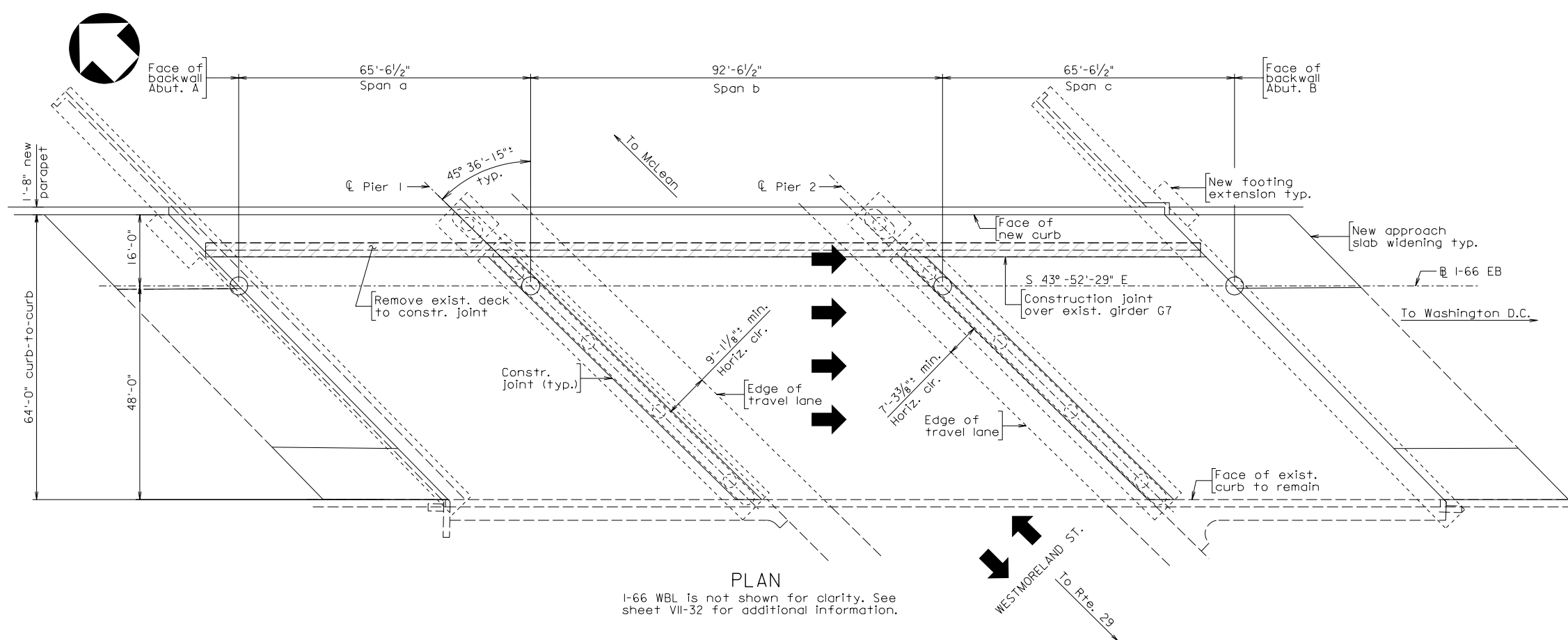
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE WIDENING ON
I-66 EBL AND NOISE BARRIER ON WBL OVER
WESTMORELAND ST. ARLINGTON COUNTY
0.8 MILES EAST OF RTE. 694
PROJ. 0066-96A-417, B677, B683

Recommended for Approval: _____
The Lane Construction Corporation Date

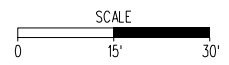
Approved: _____
Chief Engineer Date

Date: September 27, 2017 © 2017, Commonwealth of Virginia Sheet VII-31

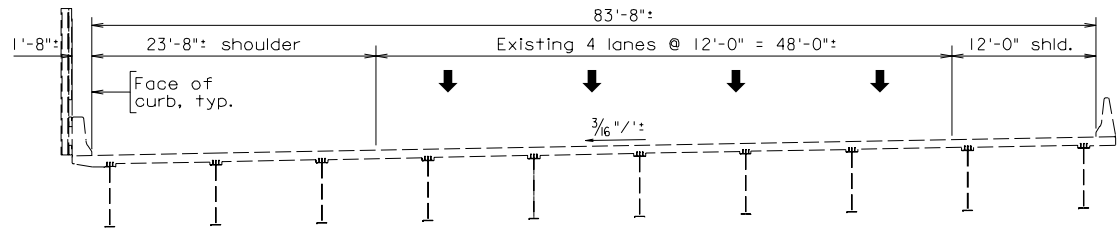


PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Lisa Grube
DRAWN:	Marlah Safritt
CHECKED:	

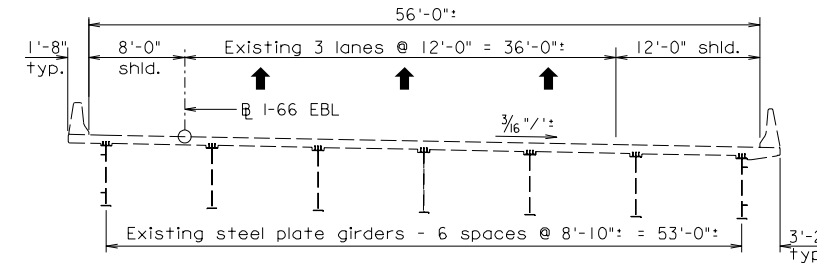
PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



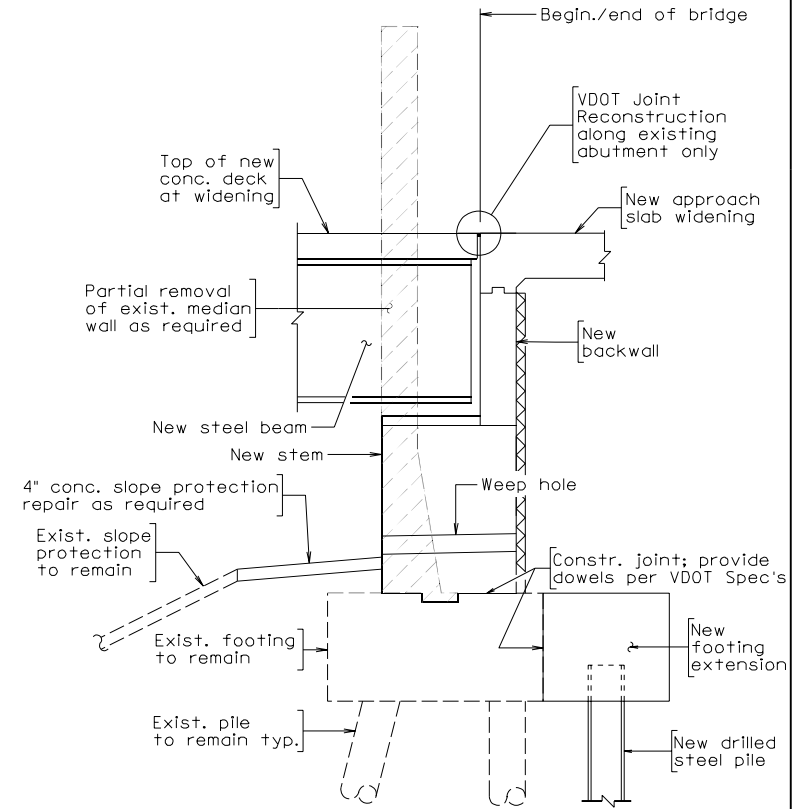
No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		



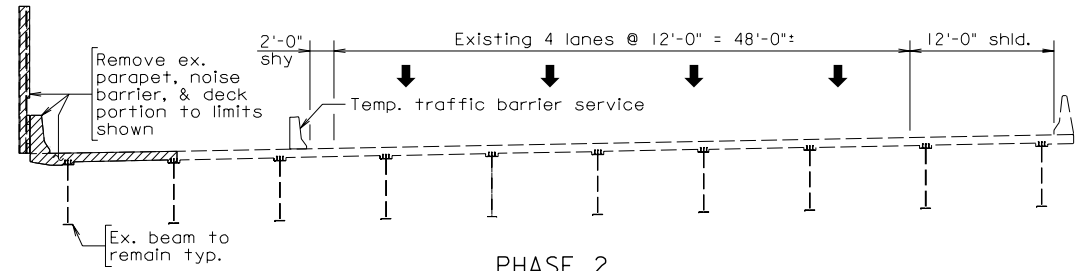
I-66 WB - EXIST. TRANS. SECTION



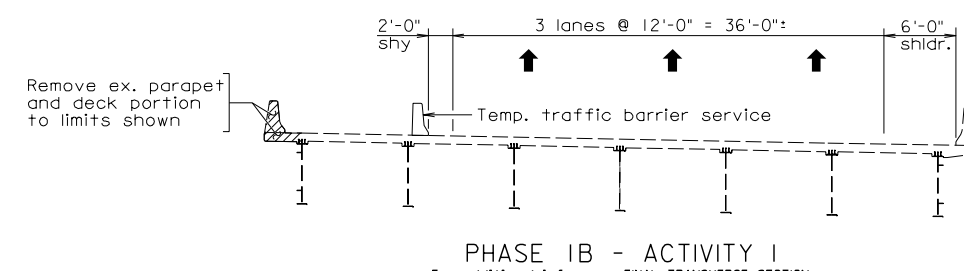
I-66 EB - EXIST. TRANS. SECTION



TYP. ABUT. SECTION AT MEDIAN-SIDE WIDENING (I-66 EB BRIDGE)

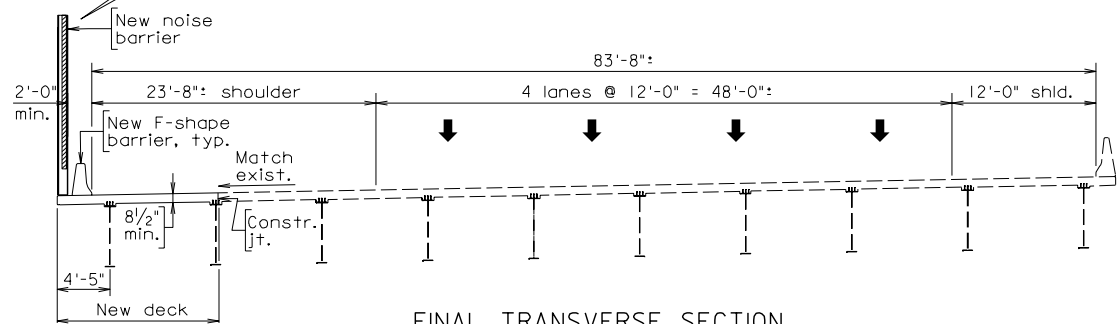


PHASE 2



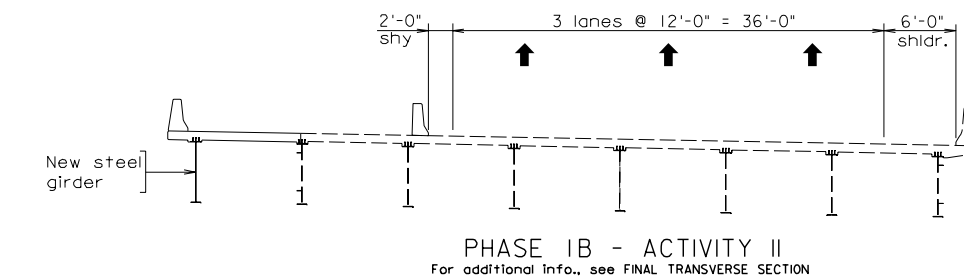
PHASE IB - ACTIVITY I
For additional info., see FINAL TRANSVERSE SECTION

BENEFIT
Robust support for new noise barrier with no modification to existing girders

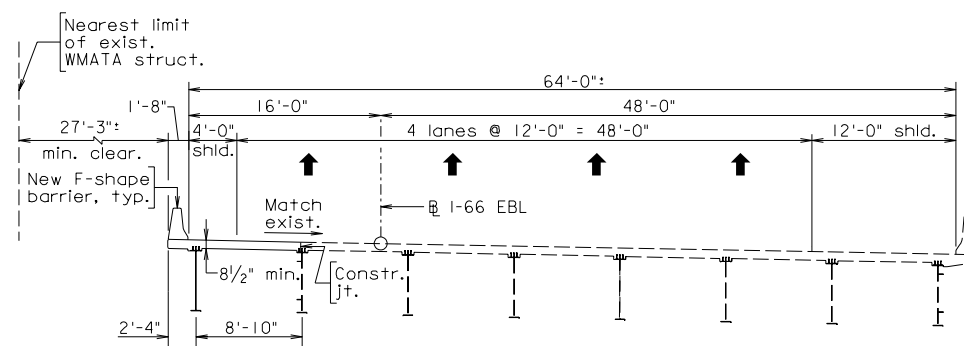


FINAL TRANSVERSE SECTION

I-66 WB CONSTRUCTION SEQUENCE



PHASE IB - ACTIVITY II
For additional info., see FINAL TRANSVERSE SECTION



FINAL TRANSVERSE SECTION

I-66 EB CONSTRUCTION SEQUENCE

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



2 10 2 4 6 8 10
SCALE: 1/8"=1'-0"

© 2017, Commonwealth of Virginia

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
I-66 OVER WESTMORELAND ST. DETAILS					
No.	Description	Date	Designed: LKG	Date	Plan No.
			Drawn: MKS	Sep. 2017	188-11E
			Checked: MKS		VII-32
Revisions					

STATE	FEDERAL AID	ROUTE	PROJECT	STATE	SHEET NO.
VA.	NHPP-066-1(356)	66	0066-96A-417, B678		VII-33
NBIS Number: 00000000000193			UPC No. 108424	FHWA Construction and Scour Code: X22-SN	
Federal Oversight Code: NA					

DESIGN EXCEPTIONS:

None.

GENERAL NOTES:

Width: 52'-0" min. face-to-face of curbs, includes widening of 8'-0" min. on left side of traffic.

Span layout: 75'-8 1/4" - 75'-8 1/4" continuous multi-cell concrete box girder spans.

Capacity: HS20-44 loading and alternate military loading. HL-93 loading for widening.

Specifications:

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

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

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

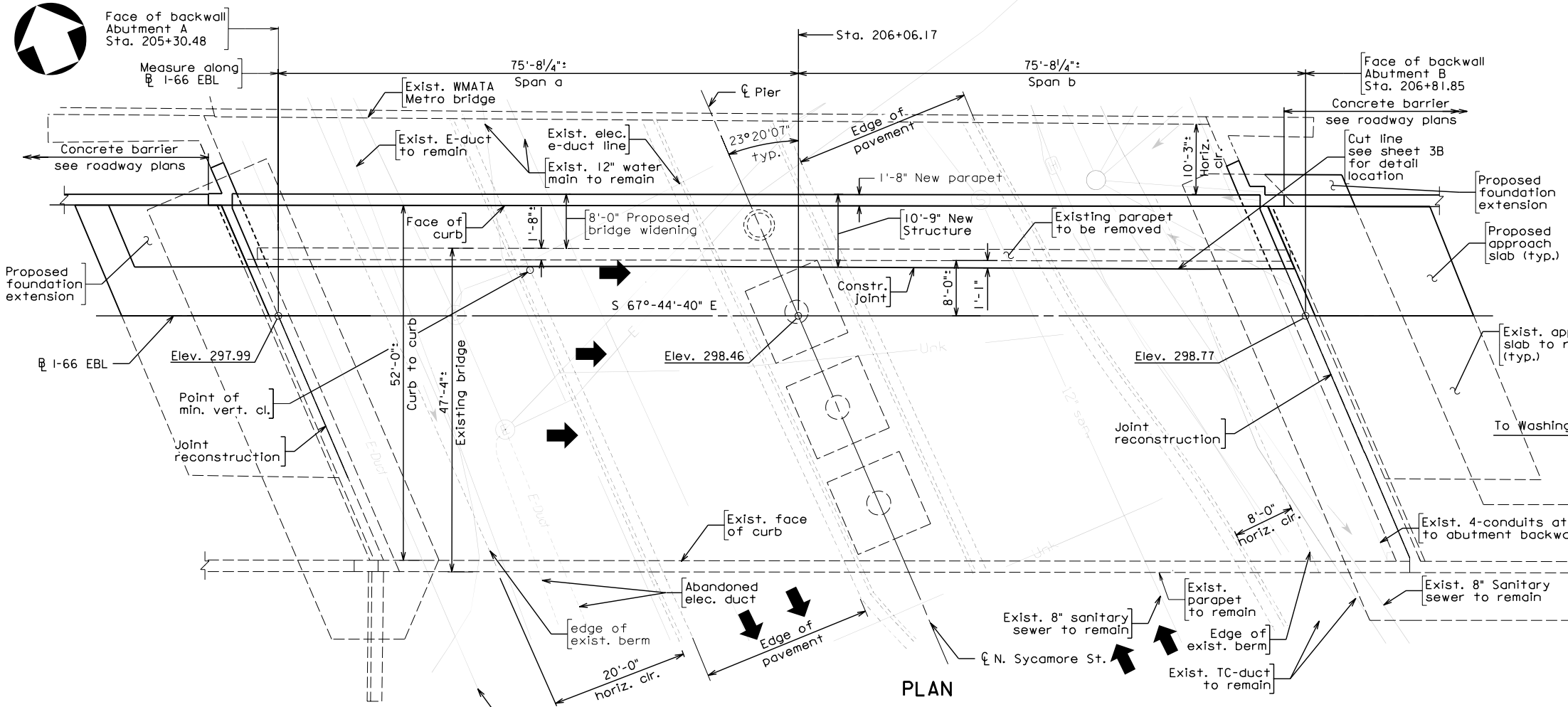
Bridge No. of existing bridge is 2073. Plan No. is 213-07.

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and require field verification by the contractor.

After completion of concrete substructure surface repair, all existing abutments and wingwalls shall be waterproofed. Abutments backwalls and top of abutments seats shall receive a coat of epoxy Type EP-S. All other areas on abutments shall receive a coat of waterproofing coating Tex.cote 300.

Existing berm shall be extended to accommodate widening.



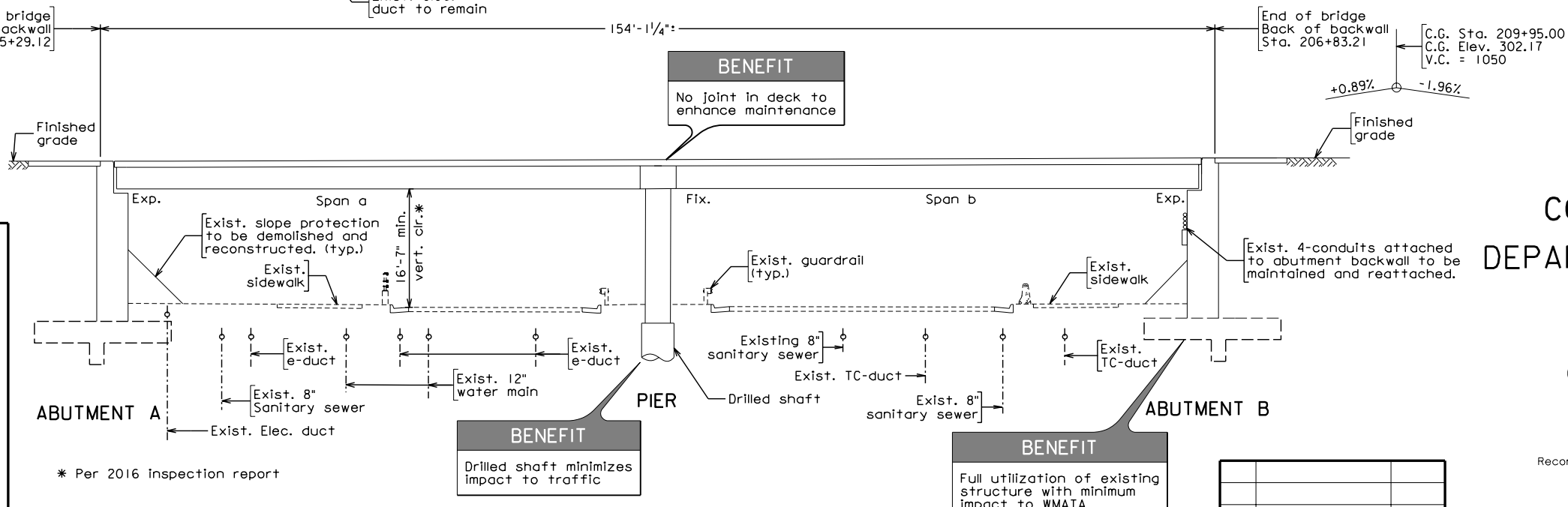
PLAN

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED BRIDGE WIDENING ON
I-66 EBL OVER SYCAMORE ST.
ARLINGTON COUNTY
0.48 MILES WEST OF GLEBE RD.
PROJ. 0066-96A-417, B678

Recommended for Approval: _____ The Lane Construction Corporation _____ Date _____
 Approved: _____ Chief Engineer _____ Date _____




SECTION ALONG CONSTRUCTION JOINT
 Stations are shown along E I-66 EBL

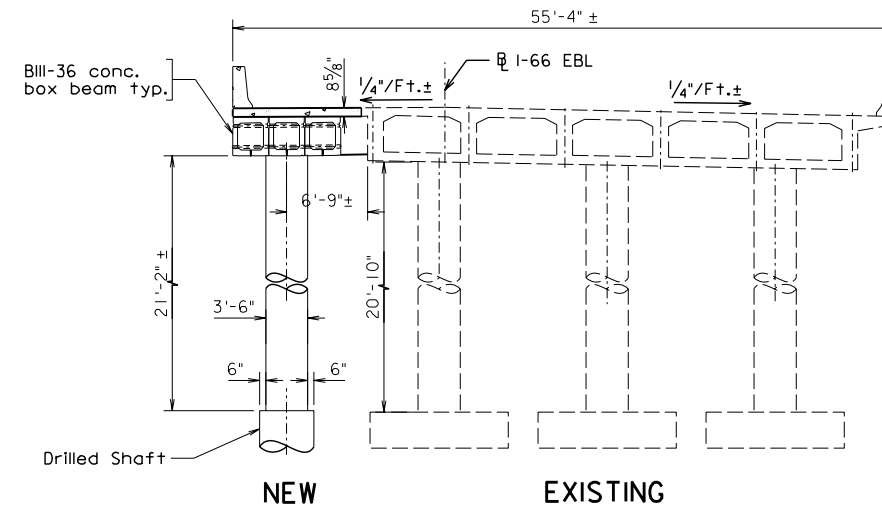
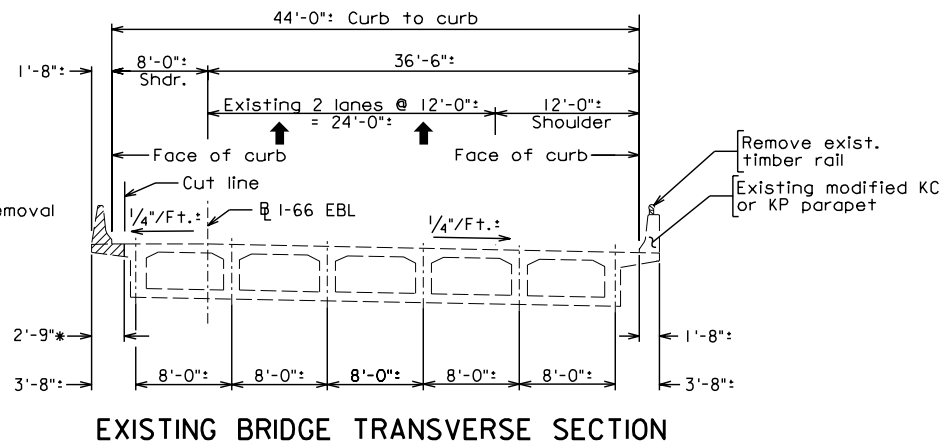
Scale: 1" = 10'-0"

No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		

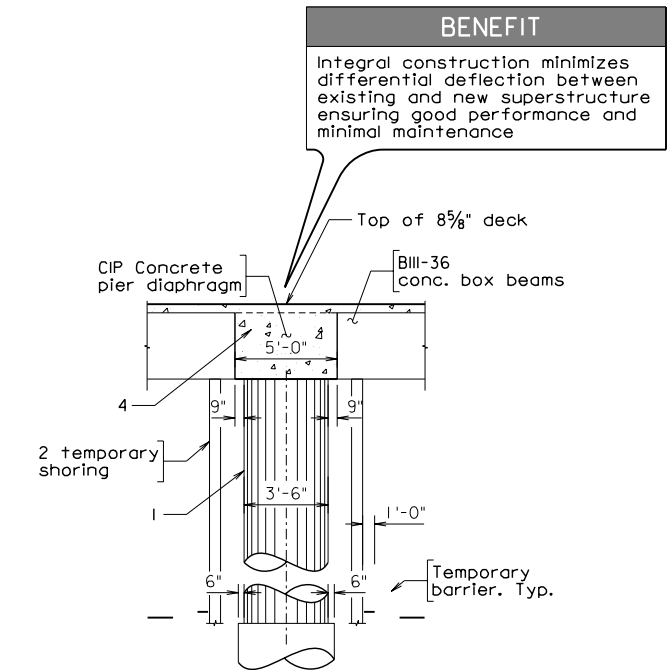


PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Bashar Callas
DRAWN:	Jennifer Modugno
CHECKED:	

LEGEND:
 Existing structure removal
 * = Denotes Limits of deck removal



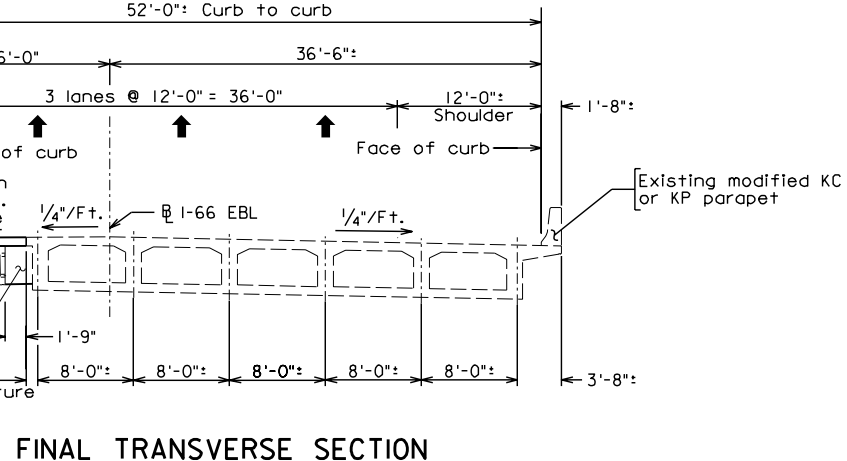
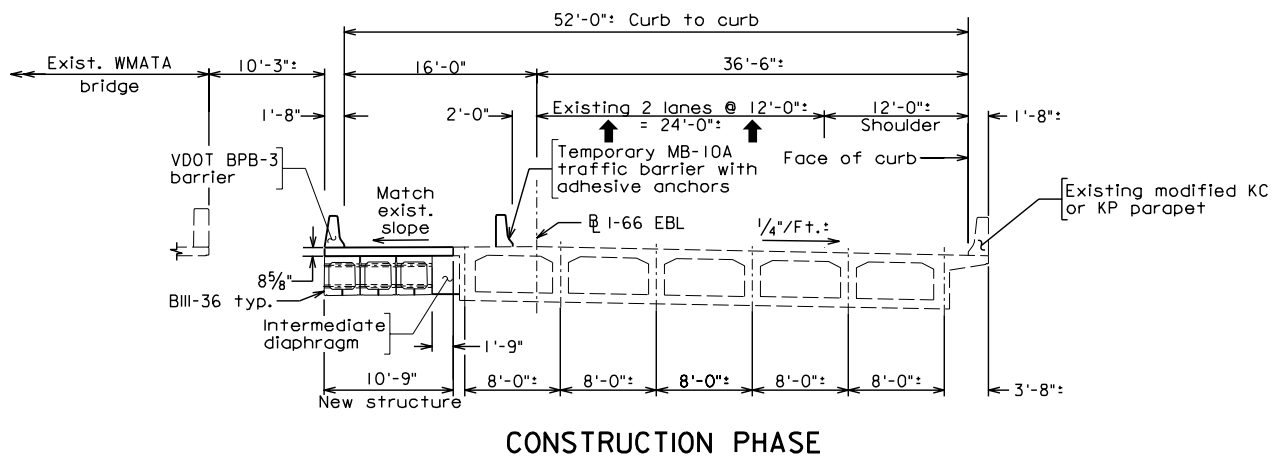
Note:
 New and existing superstructure elements. In addition to deck, shall be transversely connected at the location of existing intermediate diaphragms with new diaphragms. The new diaphragm shall be cast in place.



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

Sequence of construction

1. Construct pier foundation and column.
2. Erect precast boxes on temporary shoring. Temporary shoring may be attached to pier column for safety.
3. Cast in place deck slab topping in positive moment zone.
4. Cast in place pier diaphragm and deck slab topping in negative moment zone.



PRELIMINARY PLANS
 THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
STRUCTURE AND BRIDGE DIVISION				
I-66 EBL OVER SYCAMORE ST DETAILS				
No.	Description	Date	Designed: BC/JM Drawn: JMW/NA Checked:	Date Sep. 2017
Revisions			Plan No. 213-07B	Sheet No. VII-34

STATE	FEDERAL AID	ROUTE	PROJECT	ROUTE	PROJECT	SHEET NO.
VA.	NHPP-066-1(356)	66	0066-96A-417,B681			VII-35
NBIS Number: 00000000000208			UPC No. 108424		FHWA Construction and Scour Code: X971-SN	
Federal Oversight Code: NA						

DESIGN EXCEPTIONS:
None

GENERAL NOTES:

- Width: 10'-0" face-to-face of curbs.
- Span layout: 49'-0" - 69'-0" - 63'-3" - 74'-8 1/2" - 46'-0" - 49'-0" continuous wide flange and plate.
- Capacity: Live load of 60 lbs./sq. ft. and 5 ton maintenance vehicle as per as built plans.
- Specifications:
 - Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.
 - Design Widening: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.
 - Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 5049 Plan No. is 255-56.

Existing structural steel including beams/plate girders, diaphragms and diaphragm connections, stiffeners, and bearing assemblies are A588 and are unpainted.

All structural steel for strengthening, except in bearings and sole plates shall be ASTM A709 Grade 50W and shall be unpainted except as required by section 407 of Specifications. Structural steel in bearing and sole plates shall be ASTM 709 Grade 36, shall be painted brown and shall match existing color.

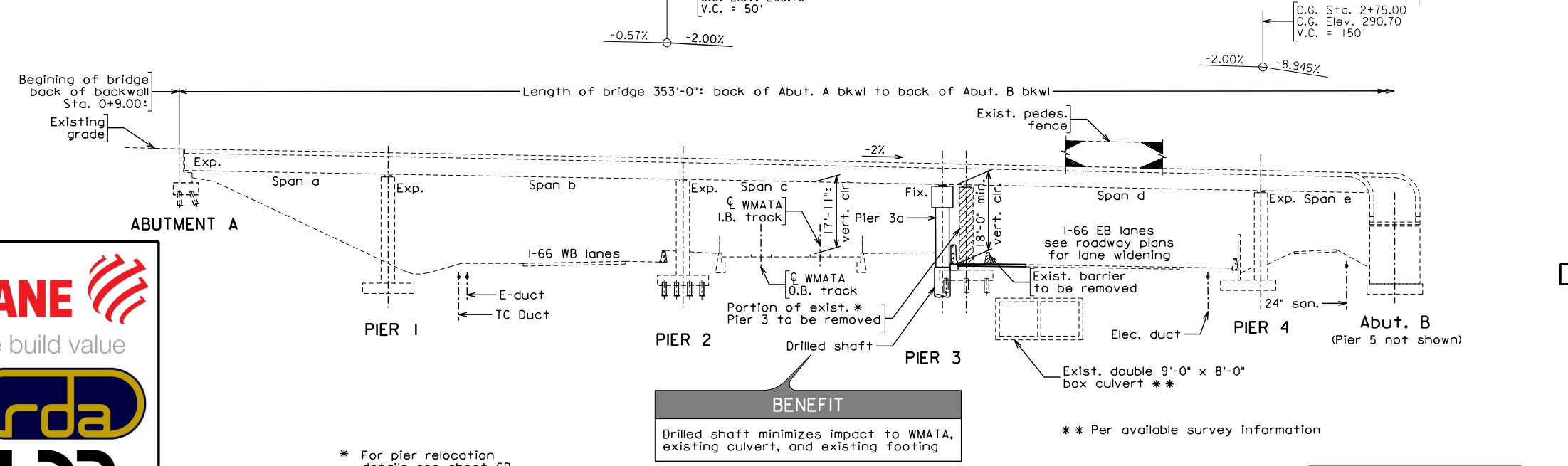
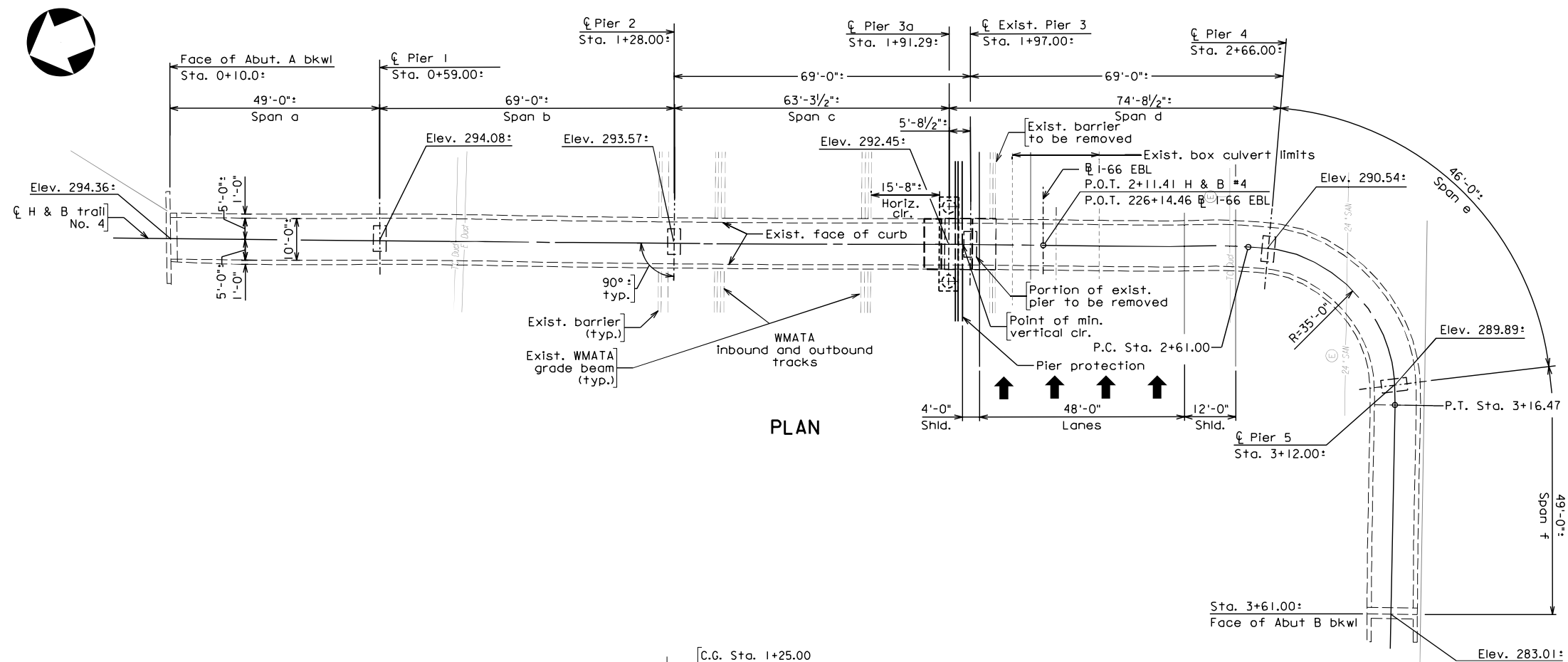
If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

Existing superstructure shall be evaluated in its entirety and may have to be strengthened due to the removal/replacement of existing Pier 3.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and require field verification by the contractor.

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED
FOR CONSTRUCTION OF BRIDGE

VDOT
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED PIER RELOCATION
HIKING & BIKING TRAIL (NO. 4)
OVER I-66 AND WMATA
0.9 MILES EAST OF PATRICK HENRY DRIVE
PROJ. 0066-96A-417, B681



BENEFIT
Drilled shaft minimizes impact to WMATA, existing culvert, and existing footing

* For pier relocation details see sheet 6B

** Per available survey information



PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Bashar Callas
DRAWN:	Jennifer Modugno
CHECKED:	

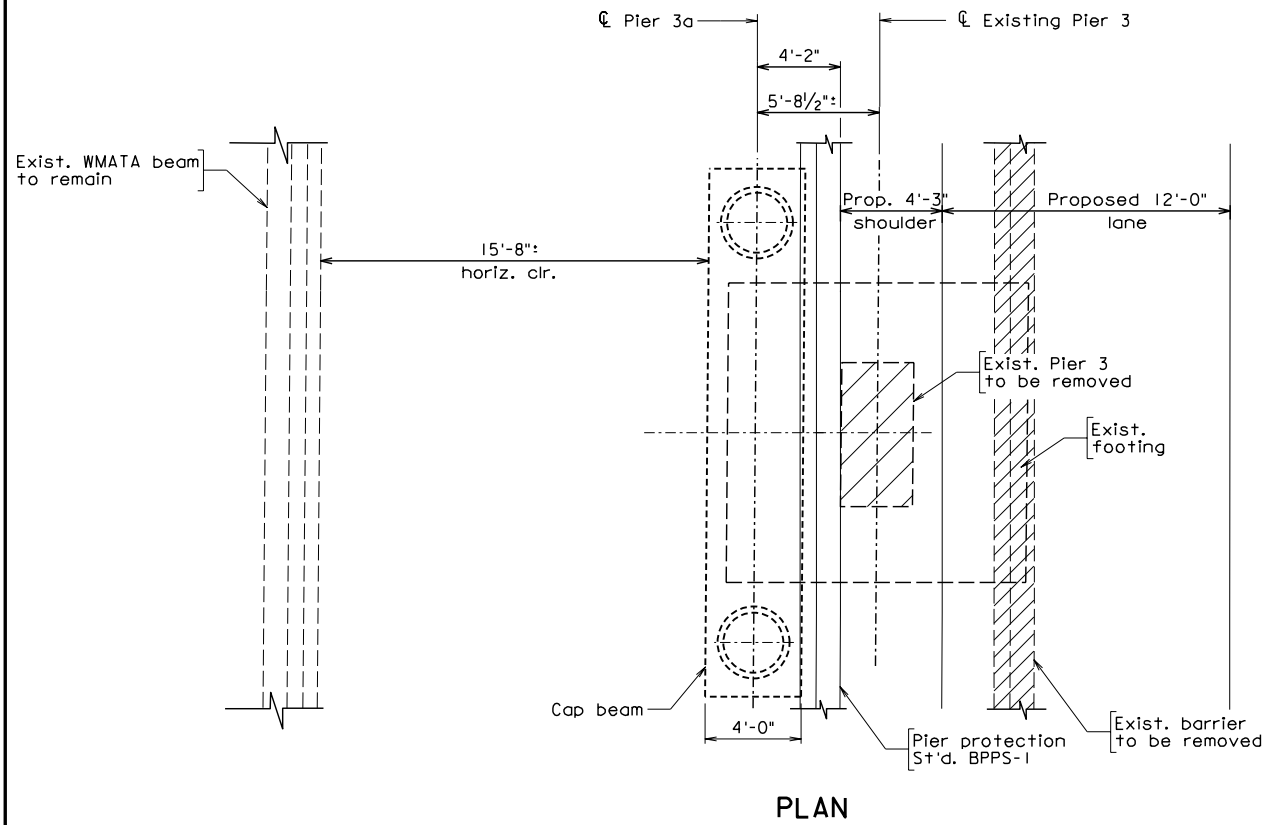
No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		

Recommended for Approval: _____ Date _____
The Lane Construction Corporation

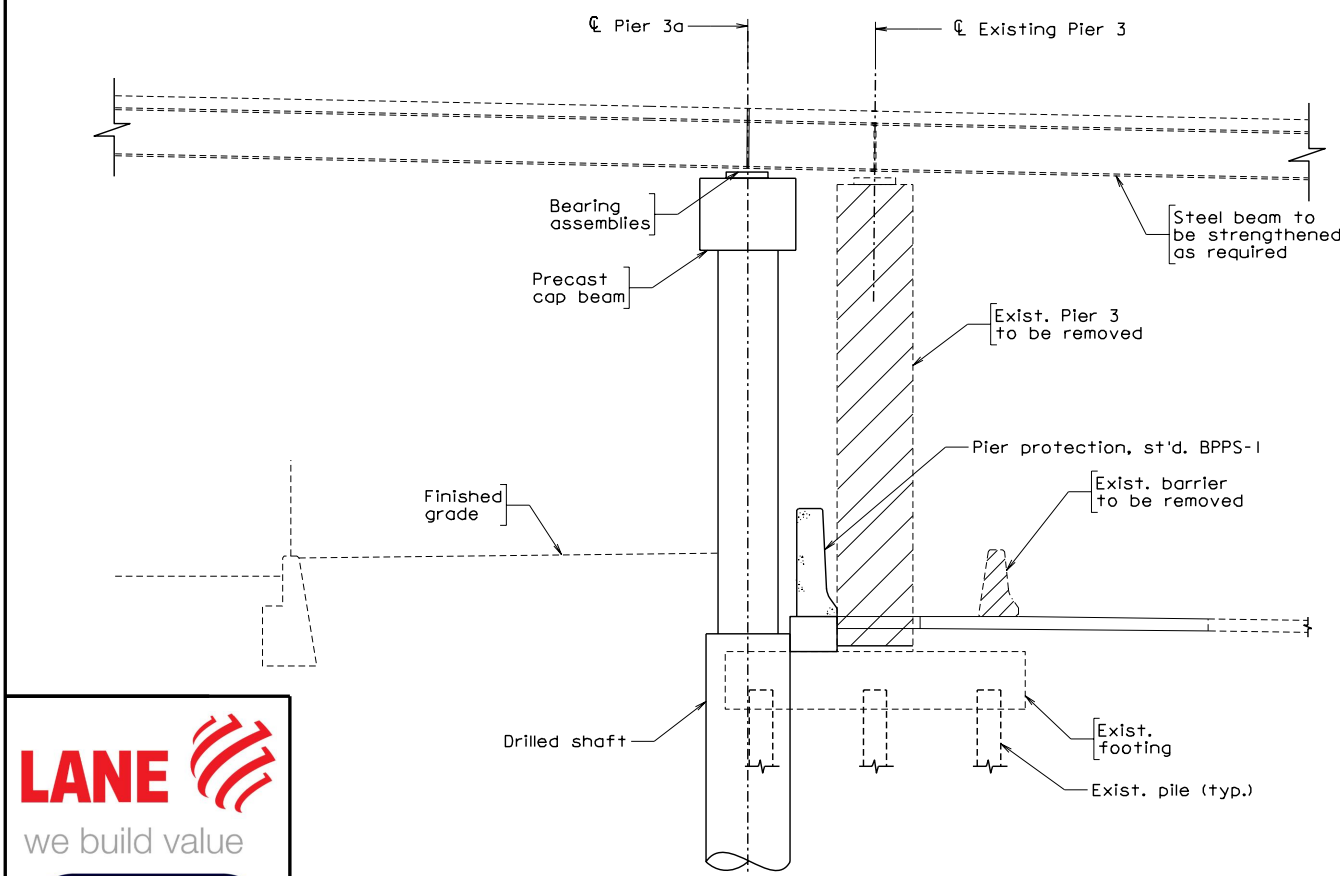
Approved: _____ Date _____
Chief Engineer

Date: September 20, 2017 © 2017, Commonwealth of Virginia Sheet VII-35

255-07B



PLAN

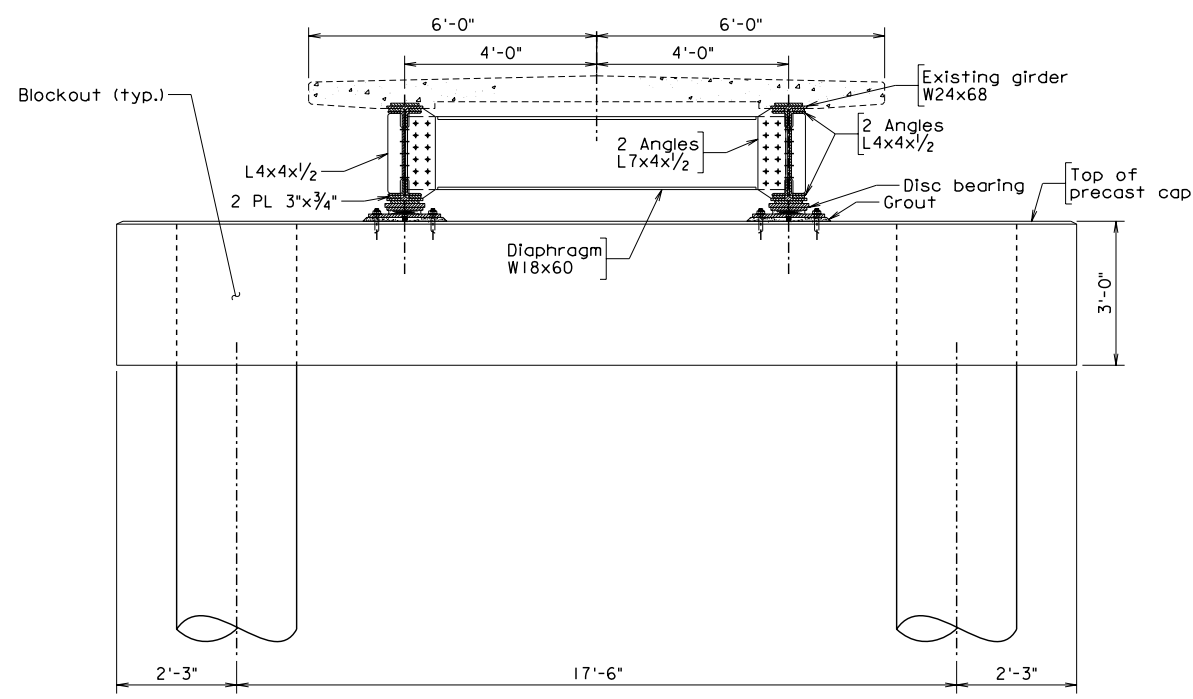


ELEVATION

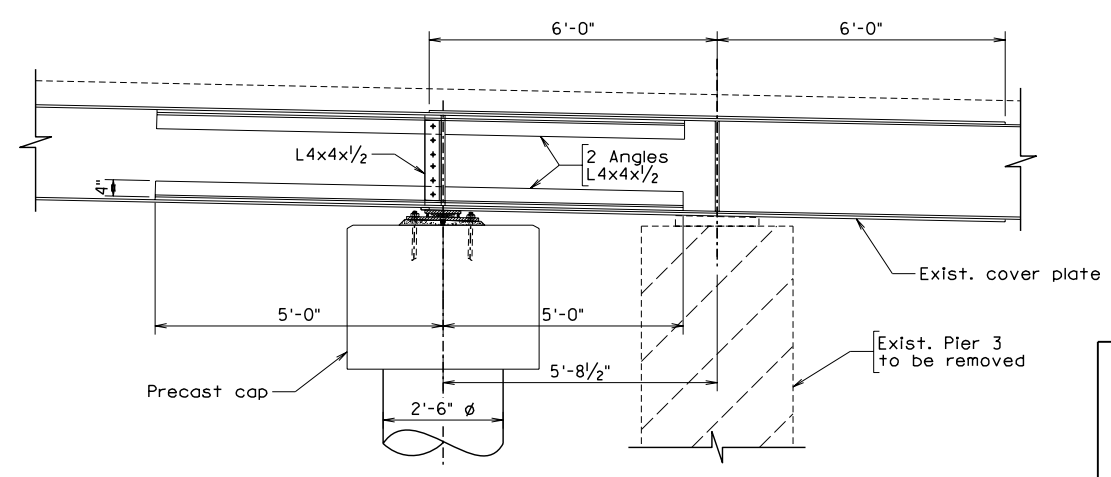
LEGEND:
 Existing structure removal

BENEFIT
 Almost no impact to Custis Trail on bridge; maximizes trail usage during construction

- Sequence of Construction:**
1. Erect new pier columns and foundations.
 2. Retrofit steel superstructure.
 3. Erect precast pier cap on temporary falsework. Precast cap to have blockouts to allow connection to piers columns.
 4. Insert reinforcement and cast concrete to complete columns to cap connection.



CROSS SECTION
 Scale: 1/2" = 1'-0"



L-SECTION
 Scale: 1/2" = 1'-0"

PRELIMINARY PLANS
 THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
HIKING & BIKING TRAIL (NO. 4) OVER I-66 AND WMATA PIER RELOCATION DETAILS					
No.	Description	Date	Designed: BC/JM	Date	Plan No.
			Drawn: JMW/NA	Sep. 2017	255-07B
			Checked:		VII-36
Revisions					

STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT
	NHPP-066-1(356)	66	0066-96A-417, B679, B684
NBIS Number: 00000000000198		UPC No.	108424
Federal Oversight Code: NA		FHWA Construction and Scour Code:	X971-S7

DESIGN EXCEPTIONS:

- DE-1 Lane width reduction
- DE-2 Shoulder width reduction
- DE-3 Stopping sight distance
- DE-4 8ft shoulder width reduction

GENERAL NOTES:

Width: 46'-6" face-to-face of curb. Includes widening of 2'-6" on left side of traffic and 1'-6" on right side of traffic (I-66 EBL).
 47'-0" face-to-face of curb. Includes widening of 1'-3" on right side of traffic (I-66 WBL).

Span layout:
 EBL: 80' steel box girders (existing) and 80' steel rolled beam.
 WBL: 79'-8" steel box girders (existing) and 80' steel rolled beam.

Capacity:
 HS20-44 Loading and modified military loading.
 HL-93 Loading for widening and deck replacement.

Drainage area: XXX sq. mi.

Specifications:
 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.
 Design Widening: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.
 Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing EBL bridge is 2076. Bridge No. of existing WBL bridge is 2075. Existing plan numbers are 255-20 and 255-20A.

The existing structure is designated a Type B structure in accordance with Sec. 411. Only existing soundwall contains lead.

This plan set is prepared based on the information shown as the as-built plans of existing bridge. All dimension affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any ± marks shown with dimensions and stations does not indicate any degree of precision. These ± marks indicate existing dimensions and stations that may vary and require field verification by the contractor.

Deck slab extension shall be used at abutments of EBL bridge.

PRELIMINARY PLANS
 THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

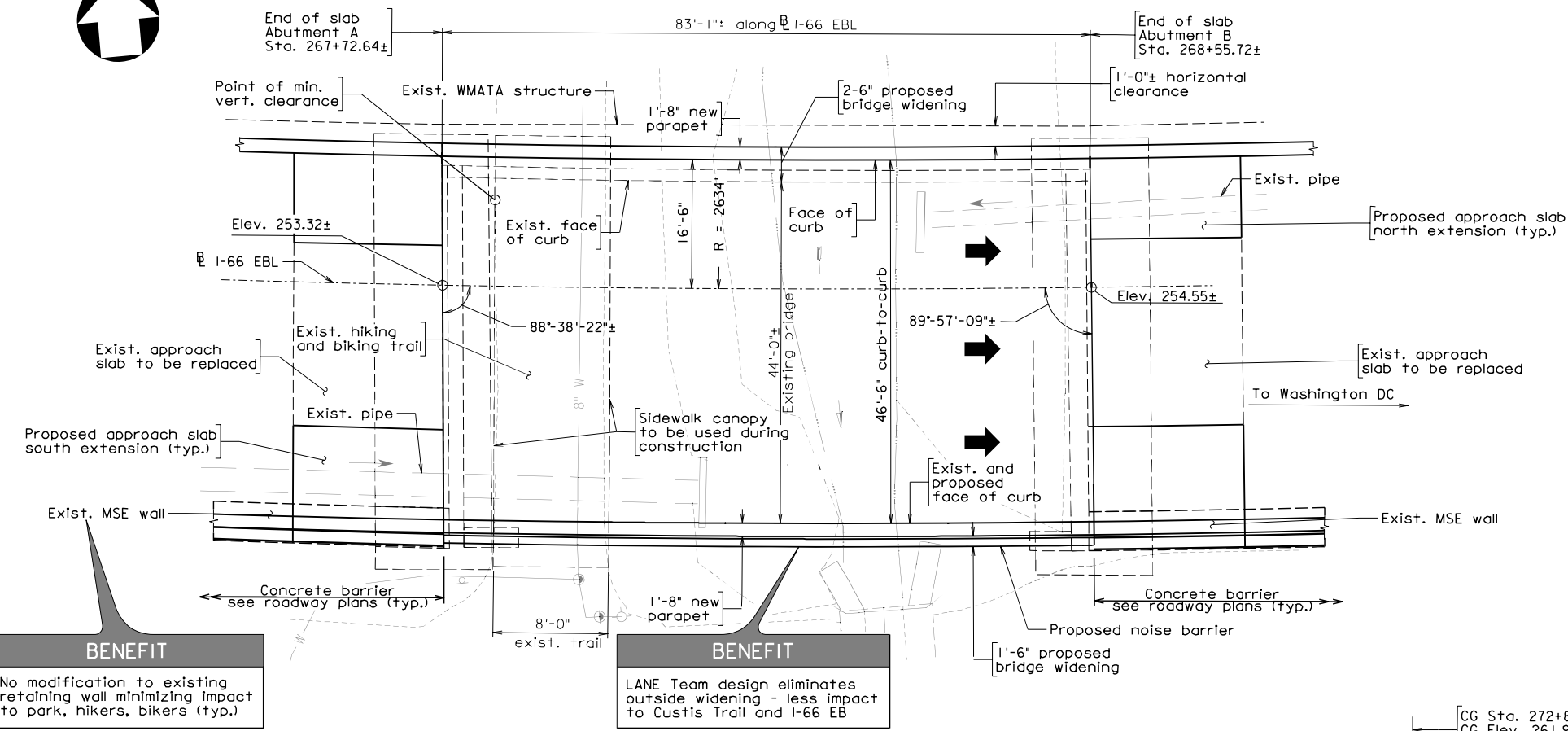


COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED BRIDGE WIDENING ON
I-66 EBL AND WBL OVER BON AIR PARK
ARLINGTON COUNTY
0.17 MILES EAST OF PATRICK HENRY DRIVE
PROJ. 0066-96A-417, B679, B684

Recommended for Approval: _____ The Lane Construction Corporation _____ Date _____

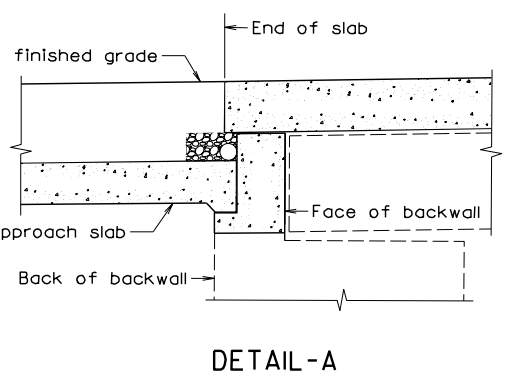
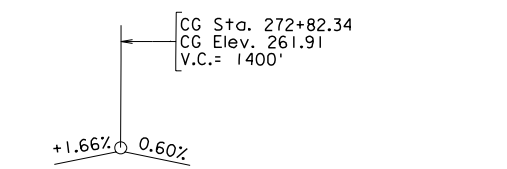
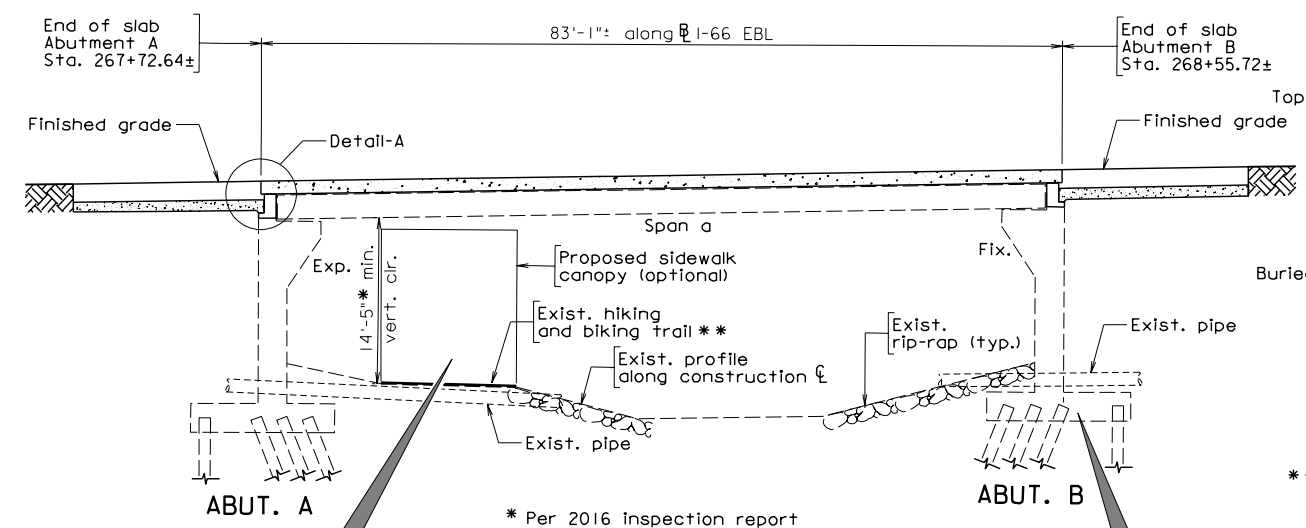
Approved: _____ Chief Engineer _____ Date _____

No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		



BENEFIT
 No modification to existing retaining wall minimizing impact to park, hikers, bikers (typ.)

BENEFIT
 LANE Team design eliminates outside widening - less impact to Custis Trail and I-66 EB



**Offeror is responsible for any damages to existing hiking and biking trail as a result of bridge widening construction

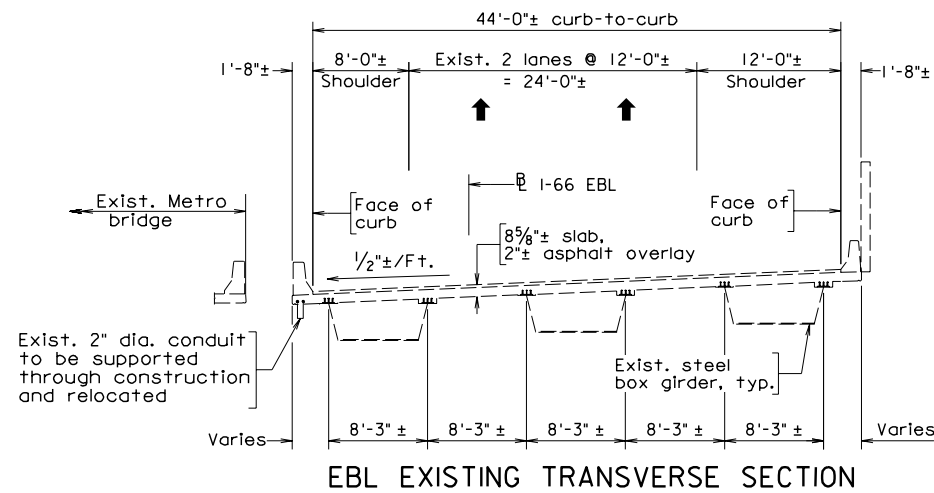
BENEFIT
 Robust protection for hikers and bikers

BENEFIT
 Full utilization of existing substructure and foundation with minimum impact to WMATA, hikers, and bikers

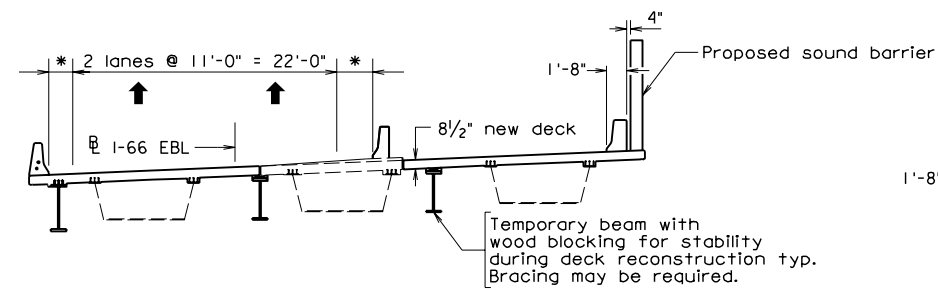


PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Bashar Callas
DRAWN:	Jennifer Modugno
CHECKED:	

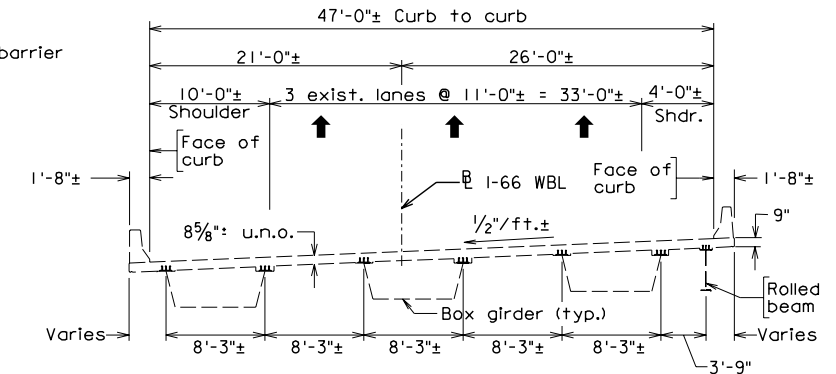
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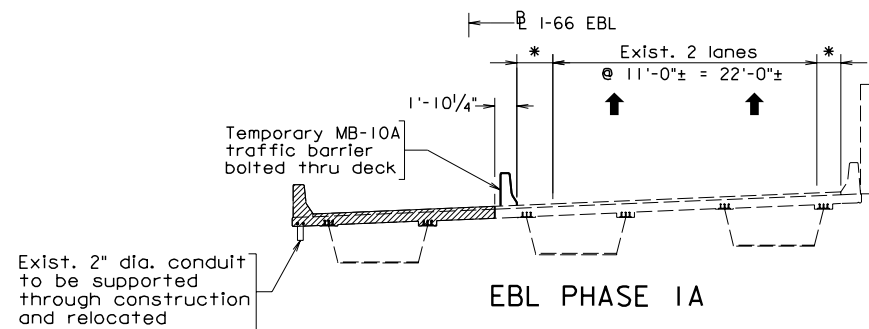
EBL EXISTING TRANSVERSE SECTION



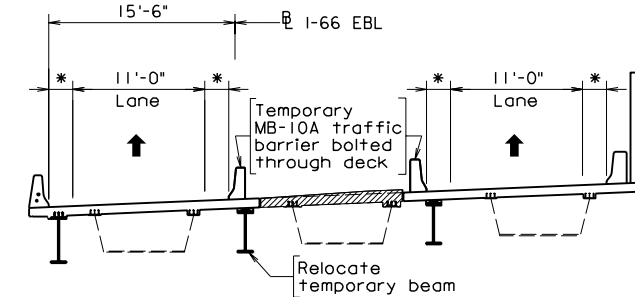
EBL PHASE 2B



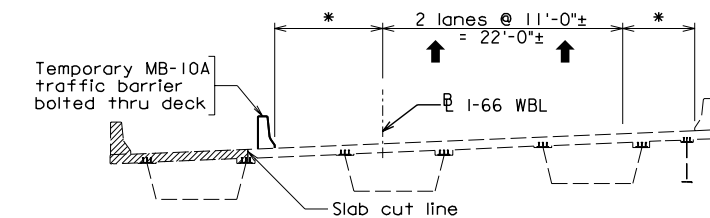
WBL EXISTING TRANSVERSE SECTION



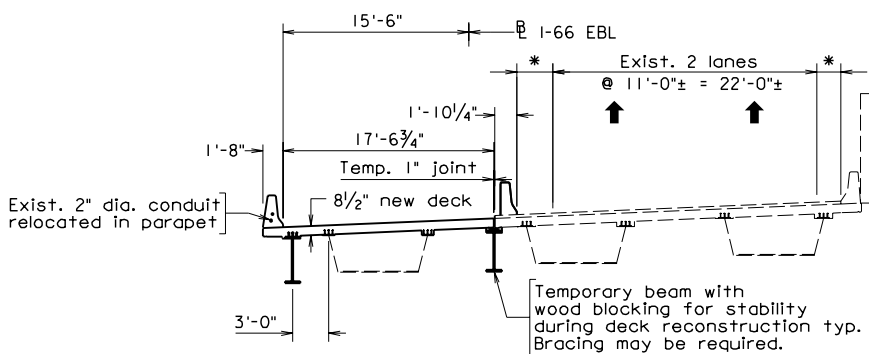
EBL PHASE 1A



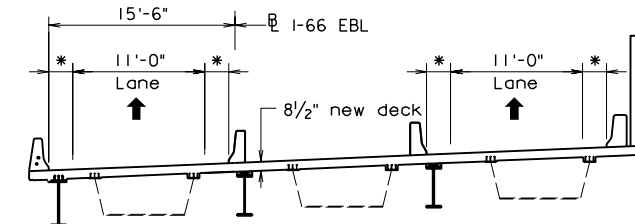
EBL PHASE 3A



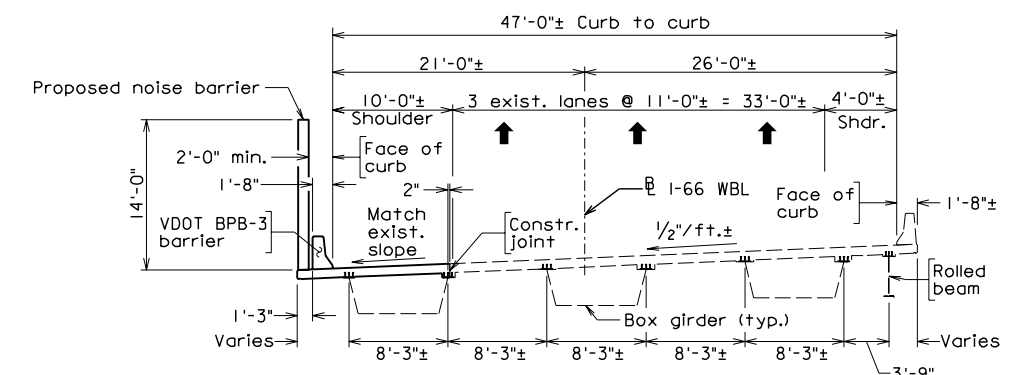
WBL CONSTRUCTION PHASE



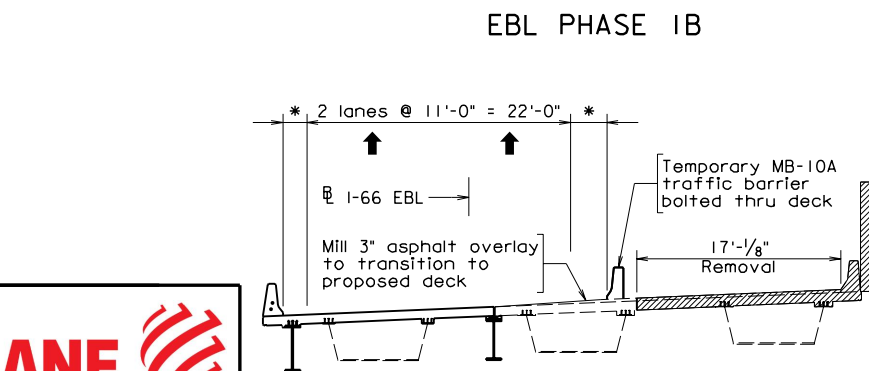
EBL PHASE 1B



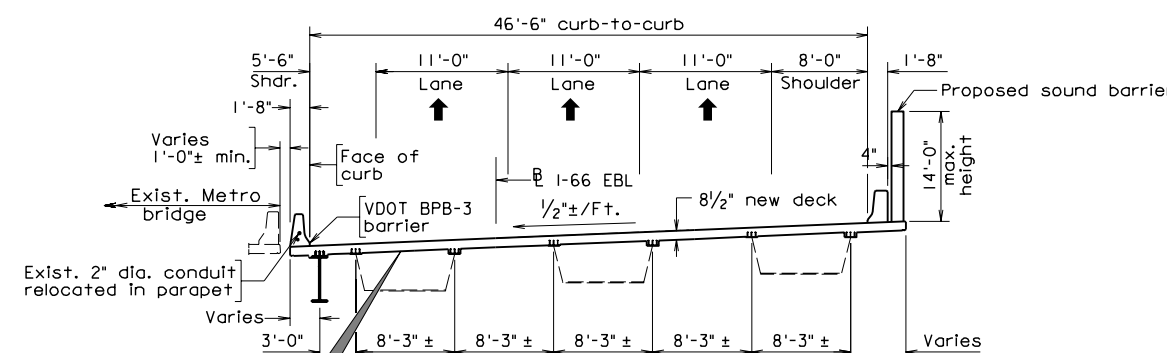
EBL PHASE 3B



WBL FINAL TRANSVERSE SECTION



EBL PHASE 2A



EBL FINAL TRANSVERSE SECTION

LEGEND:
 Existing structure removal

PRELIMINARY PLANS
 THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

BENEFIT
 No precast elements for long service life and minimum maintenance

* Shy distance/temporary shoulder as required per RFP

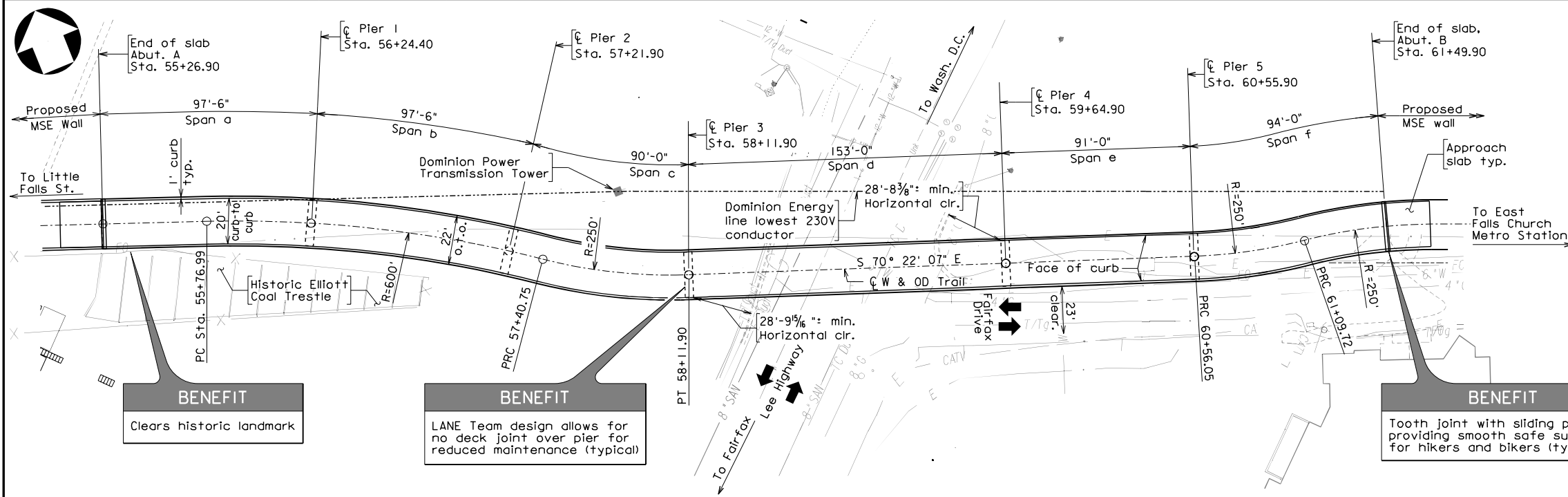
Scale: 1/8" = 1'-0"

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
STRUCTURE AND BRIDGE DIVISION				
I-66 EBL AND WBL OVER BON AIR PARK DETAILS				
No.	Description	Date	Designed: BC/JM Drawn: JMW/NA Checked:	Date Sep. 2017
Revisions			Plan No. 255-20C	Sheet No. VII-38

STATE	FEDERAL AID	STATE	SHEET NO.
VA.	NHPP-066-1(356)	66	0066-96A-417, B680
PROJECT		PROJECT	
NBIS Number: 00000000030821		UPC No. 108424	
Federal Oversight Code: NA		FHWA Construction and Scour Code: X972-SN	



DESIGN EXCEPTION(S):
None

GENERAL NOTES:

Width: 20'-0" face-to-face of curbs. Overall width: 22'-0"

Span layout: 97'-6" - 97'-6" - 90'-0" - 153'-0" - 91'-0" - 94'-0"
(Conceptual plan layout) jointless superstructure pending the final structural system by the design-builder.

Capacity: 90 p.s.f. pedestrian loading with no reduction allowed. H-10 loading.

Specifications:

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

Design: AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges, 2009 including interims through 2015; and VDOT Modifications.
AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.

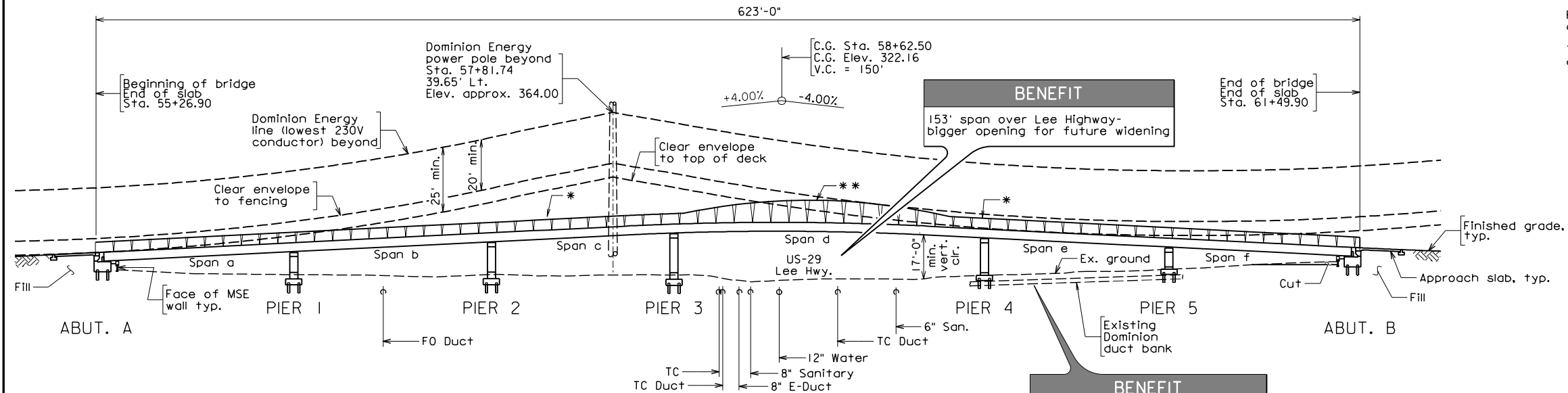
Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Lightweight concrete shall be used for deck and curbs.

Lighting on the structure shall be provided as per RFP Part 2 technical requirements and special provisions.

For additional information refer to RFP, public hearing and design charrette documents.

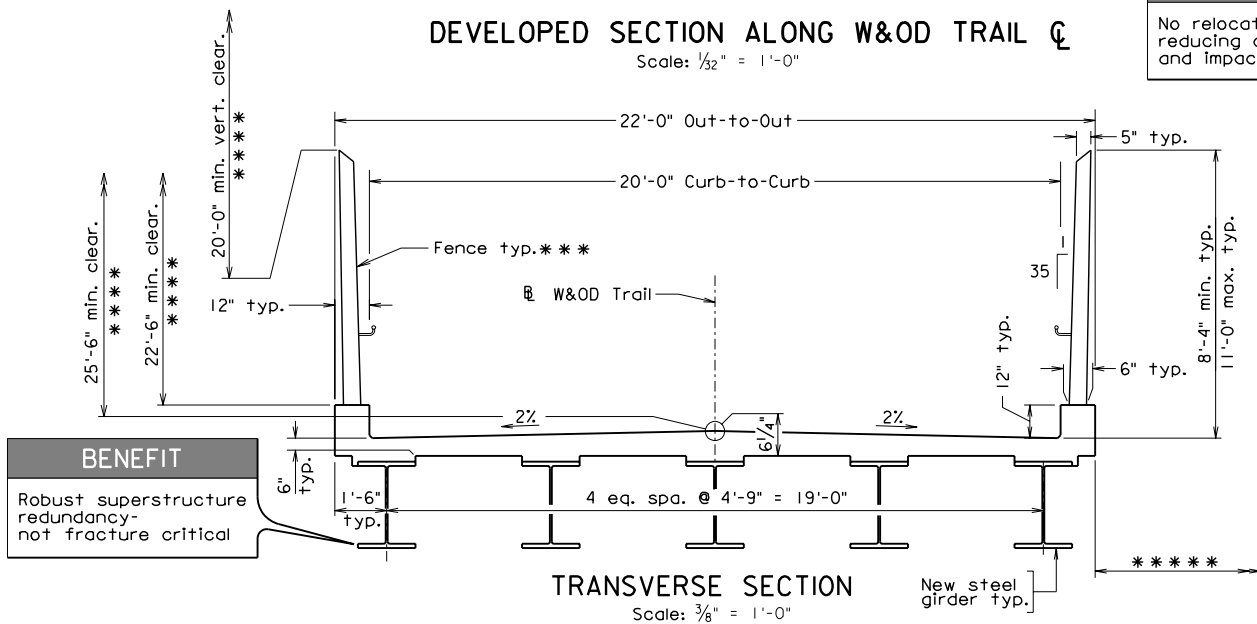
Type and location of the utilities shall be verified by the design-builder.



PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED SHARED USE PATH BRIDGE
W & OD TRAIL OVER LEE HIGHWAY
ARLINGTON CO. 0.20 MI. EAST
OF 25TH ST. NORTH
PROJECT 0066-096-417, 680



- * V-shaped fence and railing posts as required.
- ** Transition of top member of fence from fence posts (Span d) to railing posts shall be curved.
- *** Fence with V-shape fence post is only required at Span d. V shape railing shall be used on all other spans.
- **** The indicated clearance is to the nearest 230KV Dominion Energy conductor's clearance envelope.
- ***** 20'-0" min. horiz. clearance to the nearest existing building or structure for Arlington County Fire and Rescue Emergency Response

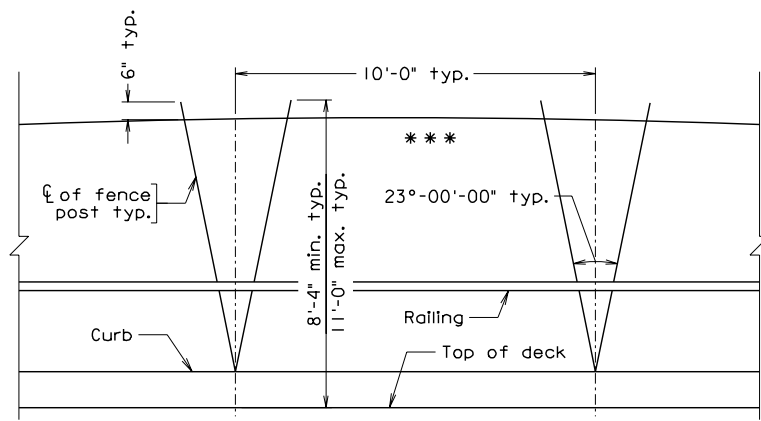


PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Bashar Callas
DRAWN:	Jennifer Modugno
CHECKED:	

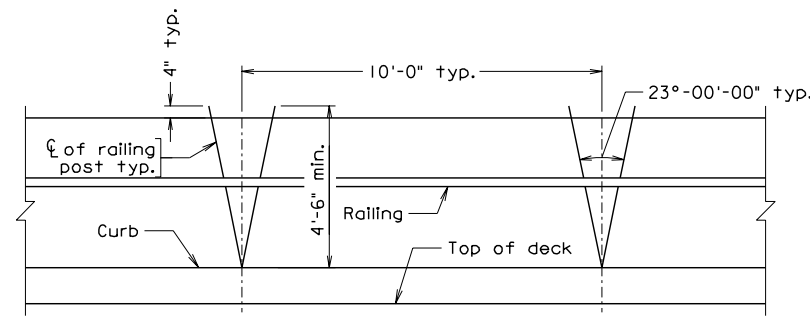
No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		

Recommended for Approval: _____
The Lane Construction Corporation Date

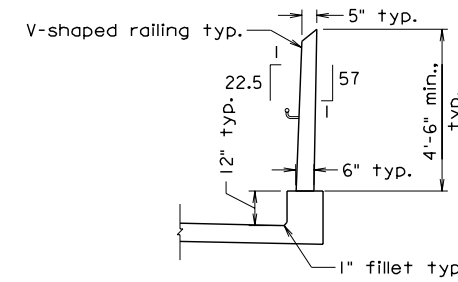
Approved: _____
Chief Engineer Date



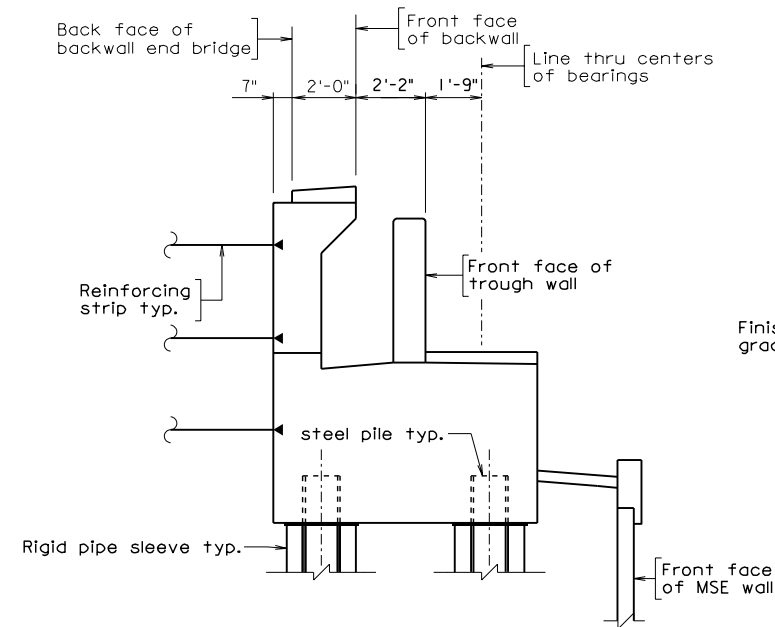
DETAIL 1
Span d



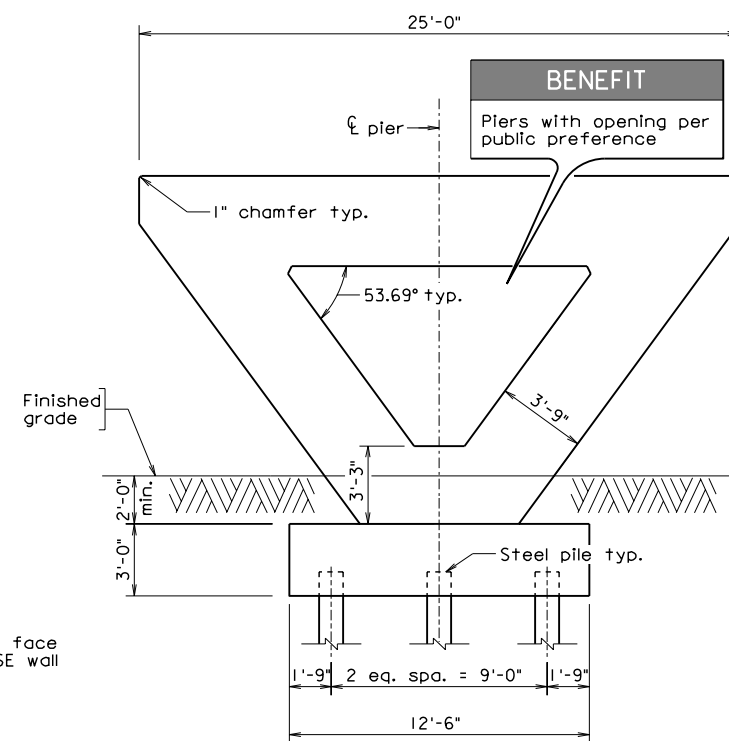
DETAIL 2
Spans a, b, c, e, and f



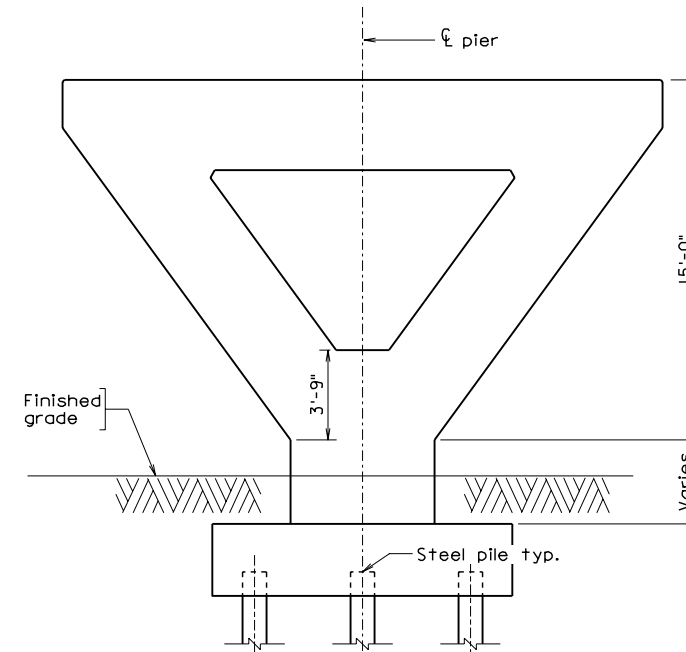
DETAIL 3 - TYPICAL RAILING
Spans a, b, c, e, and f



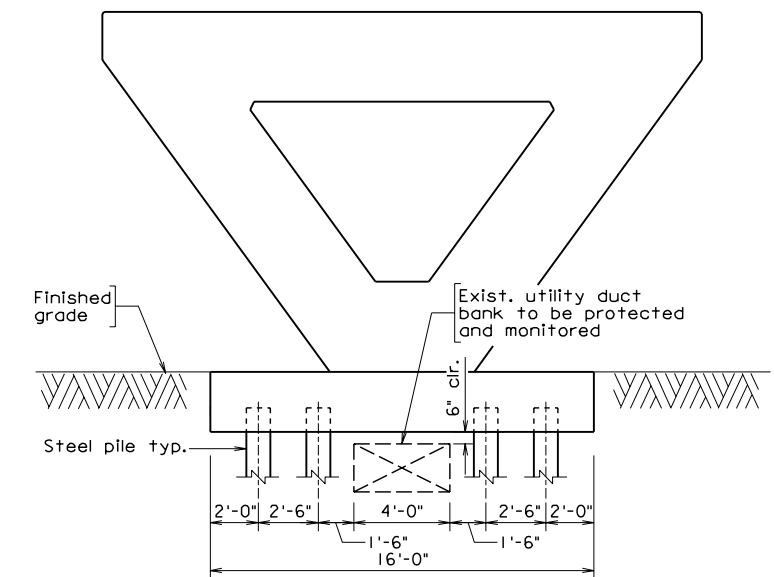
ABUTMENT TYP. SECTION



TYP. PIER ELEVATION
Pier is symmetrical about ζ



PIERS 2, 3 - ELEVATION
Pier is symmetrical about ζ
For additional information refer to TYP. PIER ELEVATION



PIERS 4 & 5 - ELEVATION
Pier is symmetrical about ζ
For additional information refer to TYP. PIER ELEVATION

Sheet VII-40_VOL II_Bridge_Graphics [W&OD_Details].dgn



PRELIMINARY PLANS
THESE PLANS NOT TO BE USED
FOR CONSTRUCTION OF BRIDGE

Scale: 1/4" = 1'-0" unless otherwise noted © 2017, Commonwealth of Virginia

		COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION	
		STRUCTURE AND BRIDGE DIVISION	
		W&OD TRAIL OVER LEE HIGHWAY DETAILS	
No.	Description	Date	Designed: BC/JM Drawn: JM/NA Checked:
	Revisions	Sep. 2017	Plan No. ###-##X Sheet No. VII-40

STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE PROJECT	VII-41
NHPP-066-1(356)		66 0066-96A-493, B686	
NBIS Number: 00000000006348		UPC No. 110629	
Federal Oversight Code: NA		FHWA Construction and Scour Code: X271-SN	

DESIGN EXCEPTION(S):

None.

GENERAL NOTES:

Width: 38'-8" face to face of curbs, includes widening of 8'-0" min. on right side of traffic.
 Span layout: 72'-0" - 72'-0" simple plate girder spans.
 Capacity: HL-93 loading (widened portion only).

Specifications:

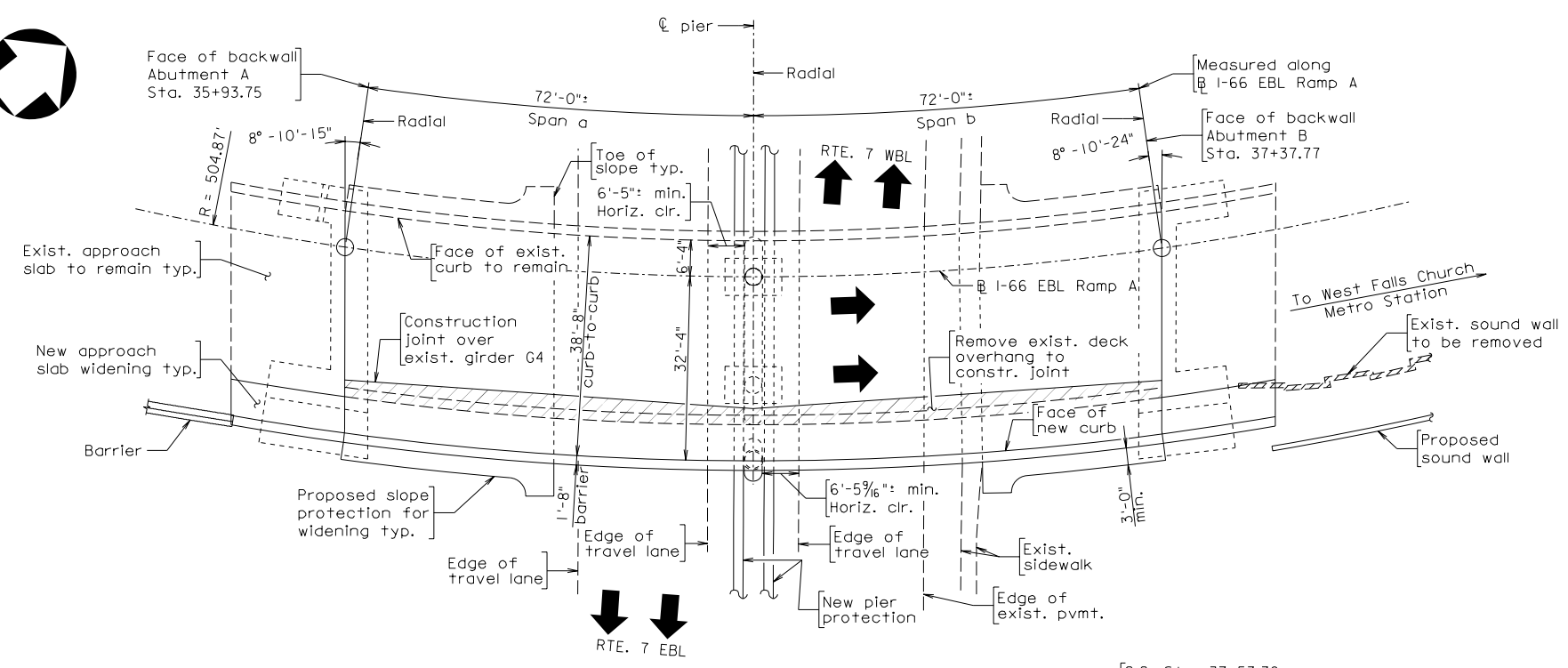
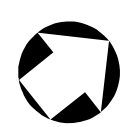
Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.
 Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT Modifications.
 Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

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

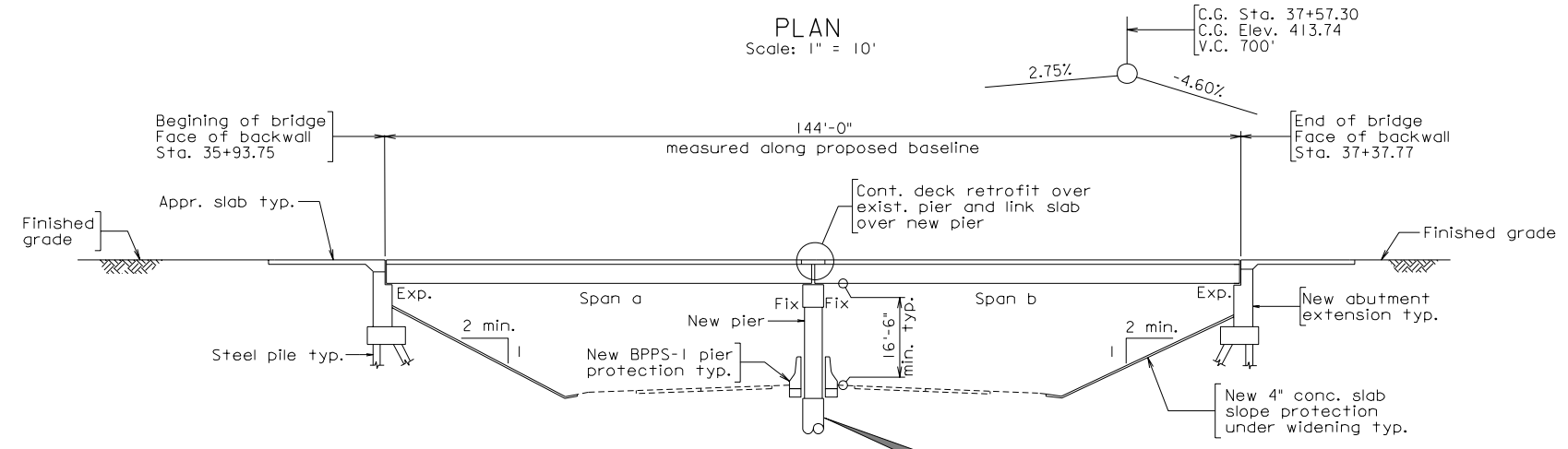
All structural steel within the widened portion of structure, except in bearings and sole plates, shall be ASTM A709, Grade 50. Structural Steel in bearing and sole plates shall be ASTM A709 Grade 36 and shall be painted Green, 595-34097.

The existing structure is designated a Type B structure in accordance with Sec. 411.

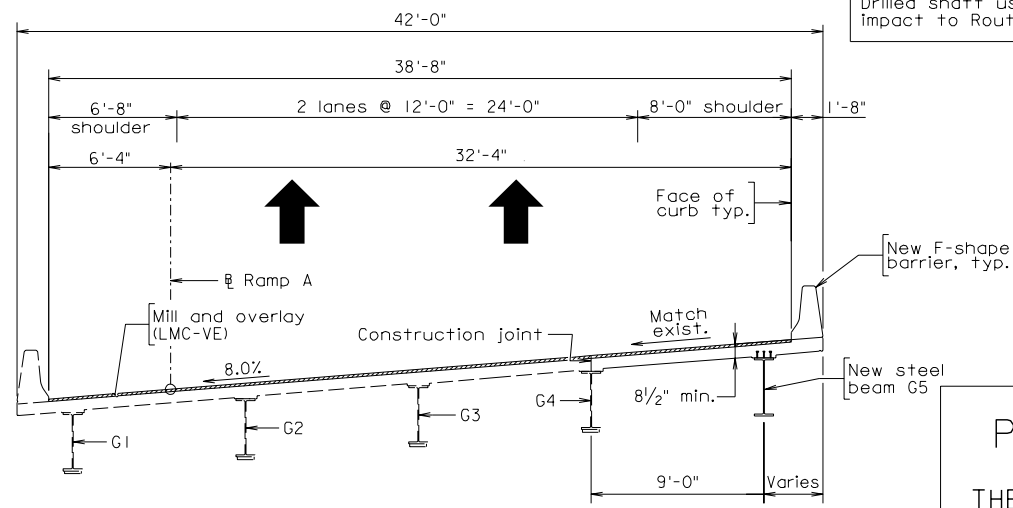
Joint closure (link slab) at pier shall be full joint closure. Joint closure concrete shall be LMC-VE concrete for Latex-Modified Concrete Early Strength Overlays.



PLAN
Scale: 1" = 10'

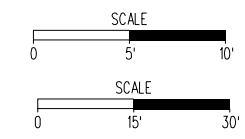


SECTION ALONG CONSTRUCTION JOINT
Scale: 1" = 10'



TRANSVERSE SECTION
Scale: 1" = 5'

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



No.	Description	Date
REVISIONS		
For Table of Revisions, see Dwg. No. X.		

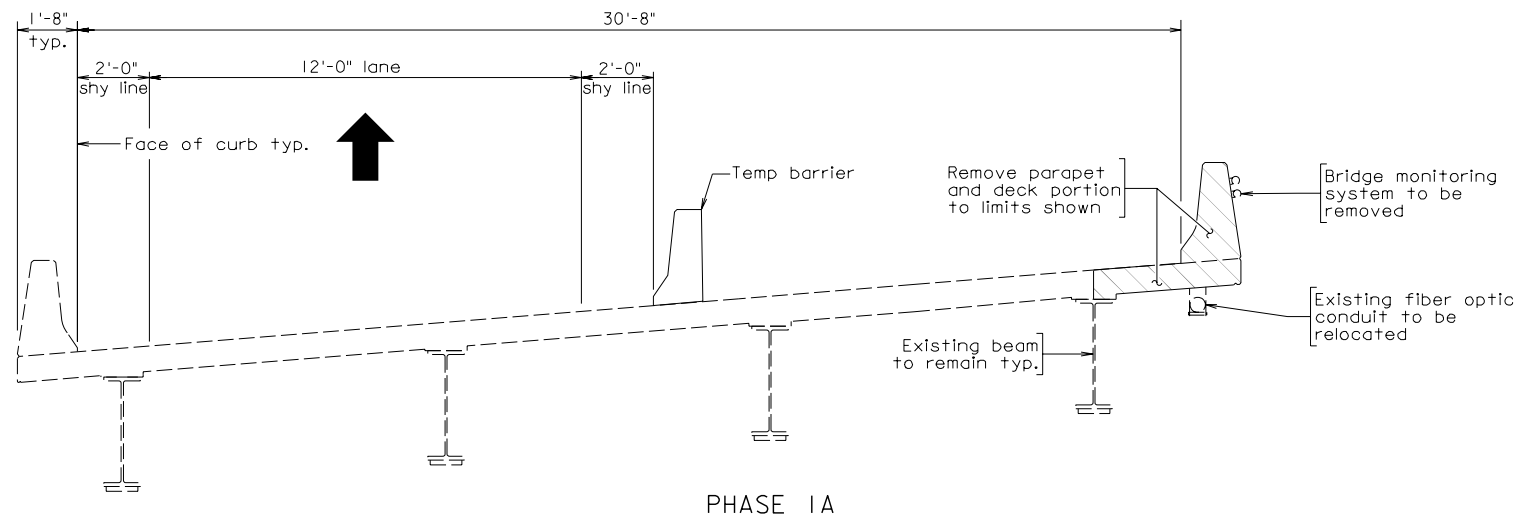


PLANS BY:	Consultant
COORDINATED:	Darell Fischer
SUPERVISED:	Song Kim
DESIGNED:	Lisa Grube
DRAWN:	Marlah Safritt
CHECKED:	

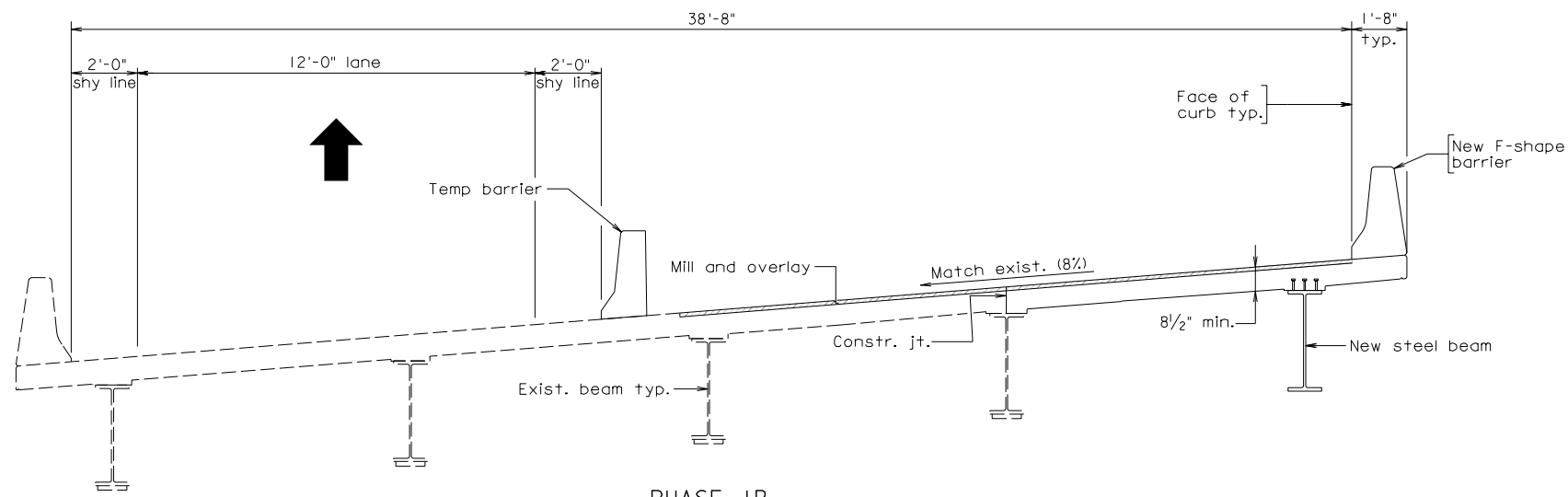


COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF TRANSPORTATION
 PROPOSED BRIDGE WIDENING ON
 RAMP A OVER ROUTE 7
 FAIRFAX COUNTY
 0.4 MI. N.W. OF CITY OF FALLS CHURCH LINE
 PROJ. 0066-96A-493, B686

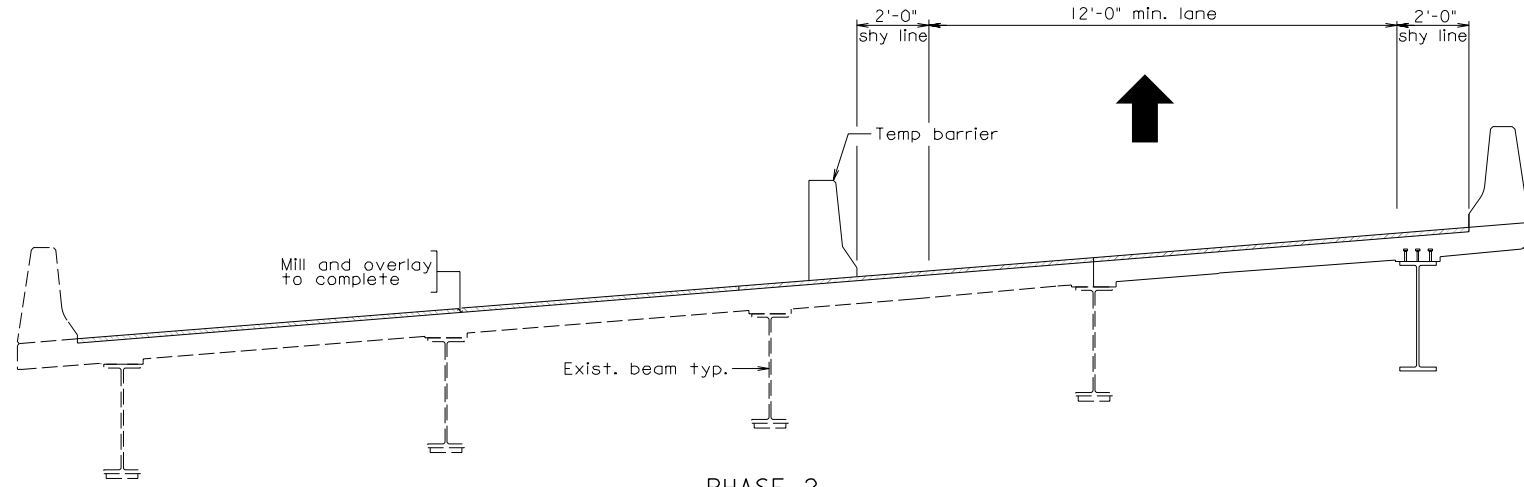
Recommended for Approval: _____
 The Lane Construction Corporation Date _____
 Approved: _____
 Chief Engineer Date _____



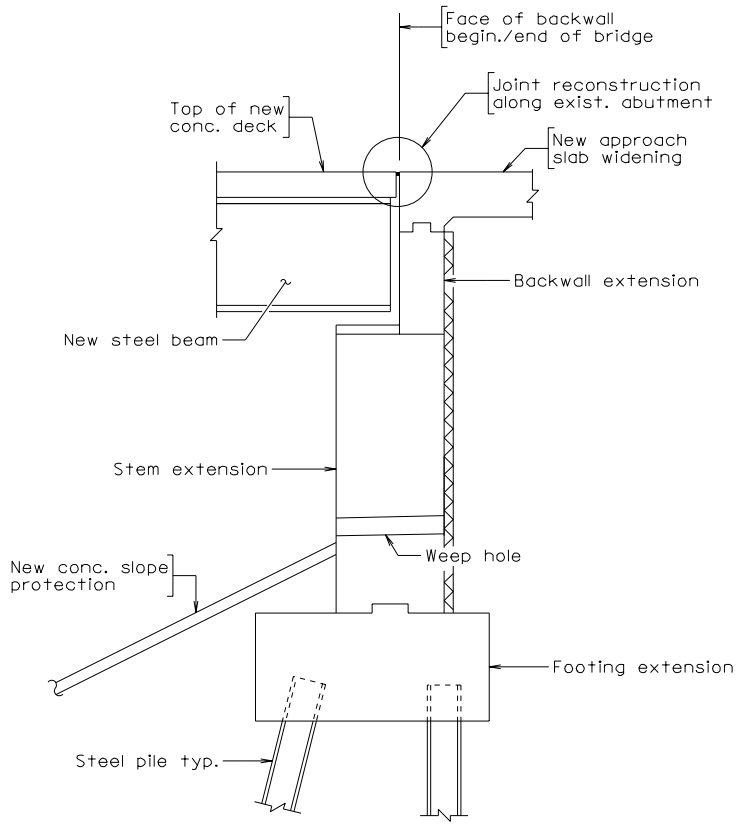
PHASE 1A



PHASE 1B



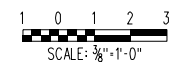
PHASE 2



TYP. ABUT. SECTION AT WIDENING

CONSTRUCTION SEQUENCE
For the final transverse section, see sheet 1

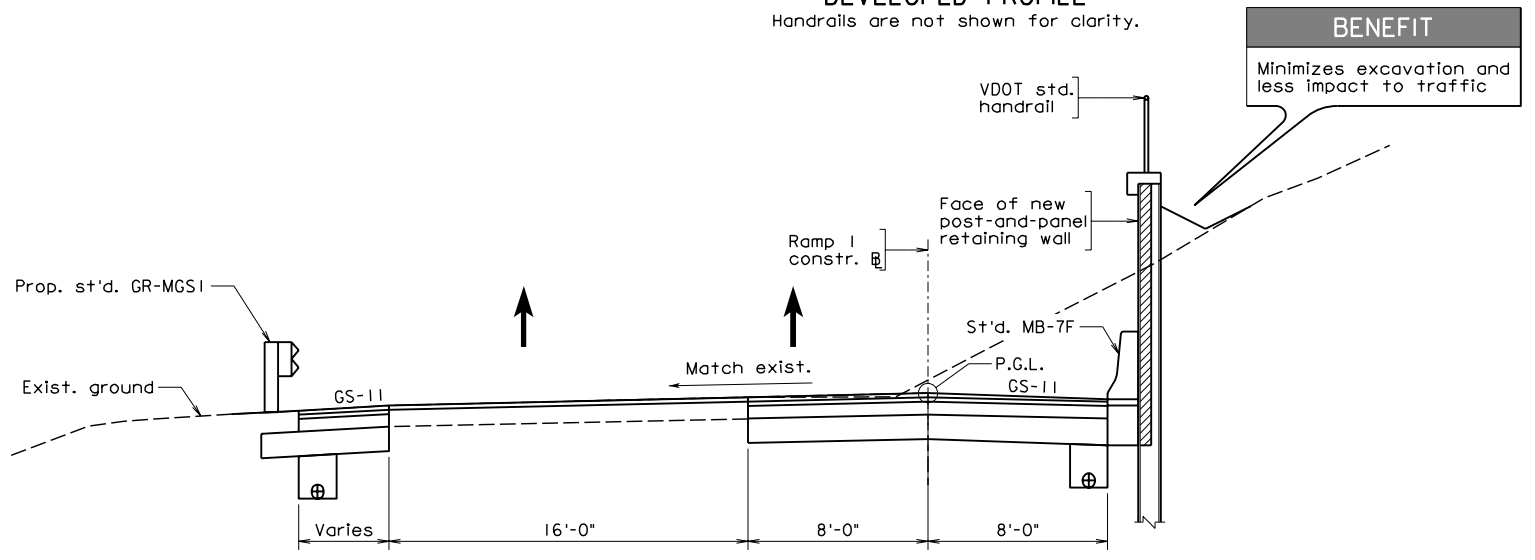
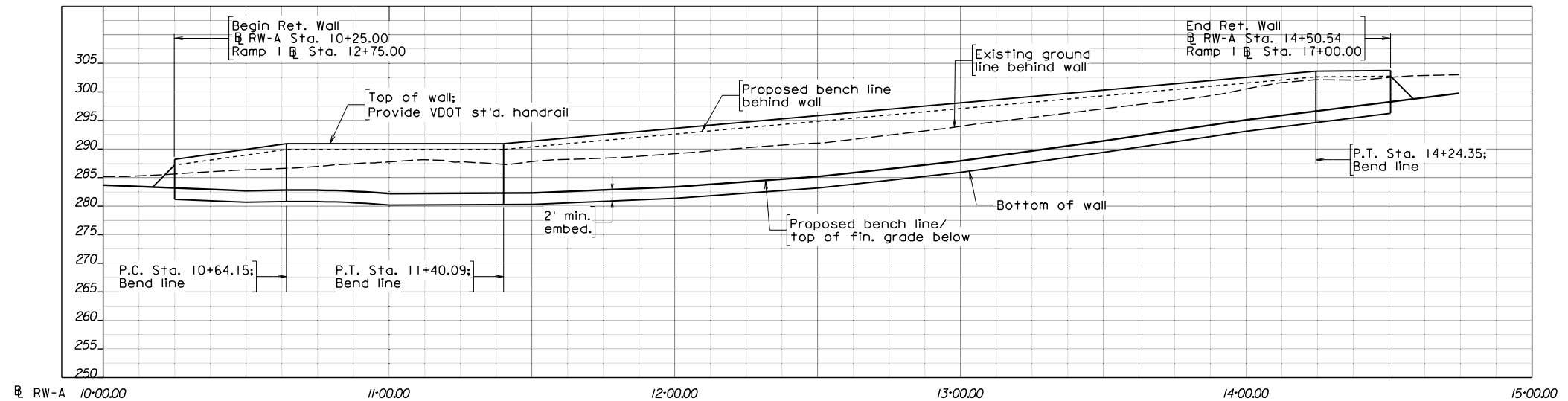
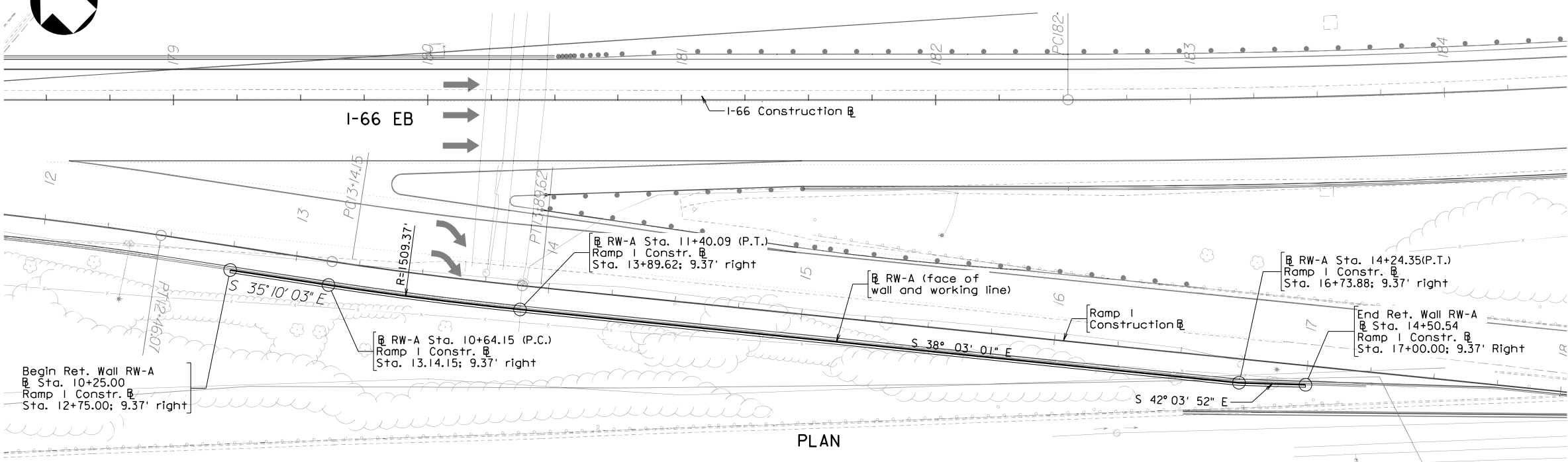
PRELIMINARY PLANS
THESE PLANS NOT TO BE USED
FOR CONSTRUCTION OF BRIDGE



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		COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION	
		STRUCTURE AND BRIDGE DIVISION	
		RAMP A OVER ROUTE 7 DETAILS	
No.	Description	Date	Designed: LKG Drawn: MKS Checked: _____
	Revisions	Sep. 2017	Plan No. 169-05B Sheet No. VII-42

Sheet VII-42-VOL II.Bridge Graphics (Ramp A Details).dgn

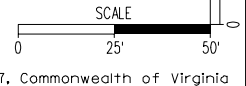


BENEFIT
Minimizes excavation and less impact to traffic

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
STRUCTURE AND BRIDGE DIVISION

RETAINING WALL RW-A
[POST AND PANEL WALL]
PLAN AND PROFILE

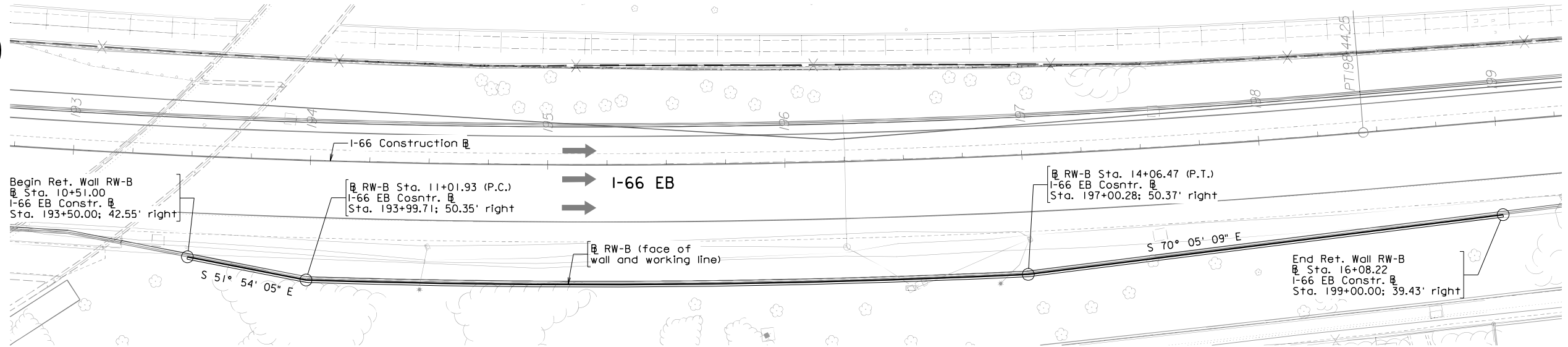


Designed: LKG	Date: Sep. 2017	Plan No.:	Sheet No. VII-43
Drawn: MS	Checked:		

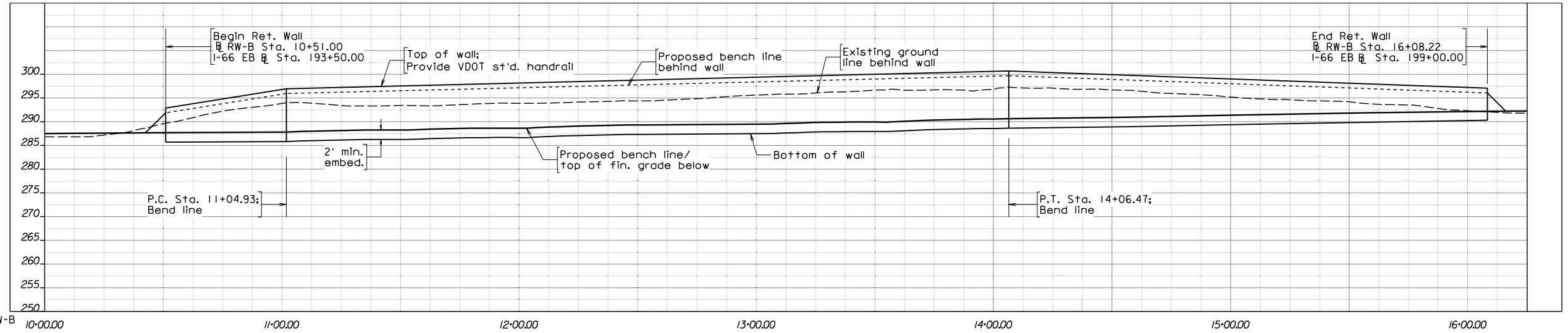
Sheet VII-43.VOL II.Bridge Graphics [RW-A].dgn



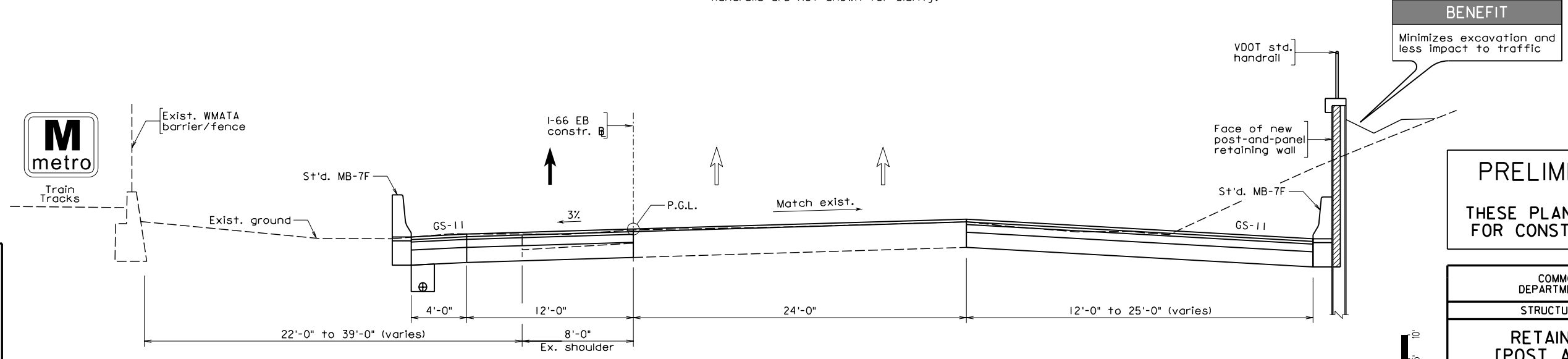
STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.	---	66	0066-96A-417 VII-44



PLAN



DEVELOPED PROFILE
Handrails are not shown for clarity.



TYPICAL SECTION
Not to scale



PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
STRUCTURE AND BRIDGE DIVISION
RETAINING WALL RW-B
[POST AND PANEL WALL]
PLAN AND PROFILE

Designed: LKG	Date: Sep. 2017	Plan No.: ---	Sheet No.: VII-44
Drawn: MS	Checked: ---		

Sheet VII-44_VOL II_Bridge Graphics [RW-B].dgn

