

A DESIGN-BUILD PROJECT

ROUTE 7 WIDENING

AND BRIDGE REHABILITATION OVER DULLES TOLL ROAD AND AIRPORT ACCESS HIGHWAY

PRICE PROPOSAL

April 13, 2015

Prepared for



State Project No.: 0007-029-139, P101, R201, C501, B617, B618
Federal Project No.: BR-5401(738) Contract ID Number: C000821350877

WAGMAN



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

RFP NO. C00082135DB77
 PROJECT NO.: 0007-029-139, P101, R201, C501, B617, B618

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 September 19, 2014 – RFP
(Date)
2. Cover letter of February 13, 2015 – Addendum #1
(Date)
3. Cover letter of March 3, 2015 – Addendum #2
(Date)
4. Cover letter of March 5, 2015 – Addendum #3
(Date)
5. Cover letter of April 7, 2015 – Addendum #4
(Date)


SIGNATURE

DAVID W. LYLE
PRINTED NAME

April 8, 2015
DATE

Vice President
TITLE

ATTACHMENT 4.0.1.2
Addendum#1 – February 13, 2015
DESIGN-BUILD PRICE PROPOSAL
CHECKLIST

**Project Name: Route 7 Widening and Bridge Rehabilitation over Dulles Toll
Road and Airport Access Highway**

Contract ID Number: C00082135DB77

➤ **Contents of Price Proposal:**

- Proposal Price, in both numbers and words (Attachment 4.3.1)**
 - Schedule of Items itemized in accordance with Part 1, Section 4.3.2, including material quantities and costs of each proposed work package**
 - Proposed Monthly Payment Schedule showing the anticipated schedule on which funds will be required and associated value of work in accordance with Part 1, Section 4.3.3**
 - Price Adjustment Information and Forms for Fuel, Asphalt and Steel, including identification of pay items and associated quantities eligible for adjustment (Part 3, Section 6.3, Attachments 6.3)**
 - Proposal Guaranty (C-24) required by Section 102.07 of Part 5, Division I Amendments to the Standard Specifications**
 - Sworn Statement Forms (C-104, C-105, Attachments 4.3.6(a) and 4.3.6(b))**
 - Proposal Schedule RESUBMISSION**
 - Proposal Schedule Narrative RESUBMISSION**
 - CD-ROM containing the entire Price Proposal in a single cohesive Adobe PDF file**
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4.3.1 Price Proposal Form
(Attachment 4.3.1)

ATTACHMENT 4.3.1

PRICE PROPOSAL FORM

4.3.1 Offeror shall specify the pricing information for the items below, the dollars amount shall be in whole numbers:

Price Proposal Cost Breakdown Summary;

Design Services, LS	\$ <u>4,175,000.00</u>
Construction Services (exclude QA/QC), LS	\$ <u>33,887,000.00</u>
Quality Assurance (QA) (Construction), LS	\$ <u>850,000.00</u>
Quality Control (QC) (Construction), LS	\$ <u>975,000.00</u>

Proposal Price; (Specify the Total Lump Sum price in both numbers and words, this price shall **equal** to the total sum of the items listed above)

Lump Sum (LS): Thirty Nine Million Eight Hundred Eighty seven Thousand
Dollars and no cents. (\$ 39,887,000.00)

Signature:  Date: April 8, 2015

Design-Builder: G.A. & F.C. Wagman, Inc.

Vendor No.: W002

Attachment 4.3.2

State Project 0007-029-139, P101, R201, C501, B617, B618

SCHEDULE OF ITEMS (ver. 4-15-2014)

This Schedule of Items shall identify the total material quantities and costs of each proposed pay item, using item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes. The Schedule of Items shall be used to cost-load the project schedule, which will serve as the basis for progress payments. Any pay items considered for price adjustments shall be identified. The values and quantities shall be clearly supported by the escrowed pricing documents.

Date:

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
	***HEADER - GENERAL CONDITIONS 1000 - 1999				
00100	MOBILIZATION		1	LS	\$1,980,000.00
00101	CONSTRUCTION SURVEYING (CONSTRUCTION)		1	LS	\$375,000.00
25505	FIELD OFFICE TY.1		29	MO	\$133,400.00
85011	NS BONDS		1	LS	\$290,000.00
85011	NS INSURANCE		1	LS	\$150,000.00
	***HEADER - DESIGN BUILD ITEMS 2000 - 2999				
00104	DESIGN BUILD - DESIGN & ENGINEERING		1	EA	\$3,950,000.00
25596	DESIGN BUILD - SCOPE VALIDATION		1	LS	\$95,000.00
25598	DESIGN BUILD - ROW ACQUISITION		1	LS	\$130,000.00
25593	DESIGN BUILD QC		1	LS	\$975,000.00
25593	DESIGN BUILD QA		1	LS	\$850,000.00
00104	DESIGN BUILD - PUBLIC RELATIONS		1	LS	\$50,000.00
49013	NS UTILITIES		1	LS	\$1,850,000.00
	***HEADER - CLEARING/EXCAVATION ITEMS 10000-10999				
00110	CLEARING AND GRUBBING		1	LS	\$225,000.00
00120	REGULAR EXCAVATION		56647	CY	\$1,586,116.00
	***HEADER - DRAINAGE/UDRAIN ITEMS 11000-11999				
00525	CONCRETE CLASS A3 MISC.		14	CY	\$23,380.00
00529	FLOWABLE BACKFILL		46	CY	\$20,700.00
00585	UNDERDRAIN UD-2		875	LF	\$33,250.00
00587	UNDERDRAIN UD-3		3,555	LF	\$99,540.00
00588	UNDERDRAIN UD-4		4077	LF	\$53,001.00
00591	COMB. UNDERDRAIN CD-2		250	LF	\$16,250.00
00595	OUTLET PIPE		136	LF	\$1,768.00
00596	ENDWALL EW-12		4	EA	\$3,700.00
00700	POST INSTALLATION INSPECTION		11,057	LF	\$44,228.00
01150	15" PIPE		1279	LF	\$44,765.00
01180	18" PIPE		980	LF	\$39,200.00
01240	24" PIPE		271	LF	\$14,905.00
02112	NS SWM RISER STRUCTURE		2	EA	\$29,920.00
24501	NS REMOVE/ ABANDON EXISTING PIPE		183	LF	\$8,235.00
02112	NS MODIFY EXISTING JUNCTION BOX		1	EA	\$1,810.00
06151	15" END SECTION ES-1		1	EA	\$935.00
06181	18" END SECTION ES-1		2	EA	\$2,170.00
06241	24" END SECTION ES-1		5	EA	\$6,925.00
06747	DROP INLET DI-2B, L=4'		1	EA	\$6,800.00
06817	DROP INLET DI-3B, L=4'		15	EA	\$77,250.00
06826	DROP INLET DI-3BB, L=4'		1	EA	\$5,150.00
06835	DROP INLET DI-3C, L=6'		2	EA	\$9,950.00
07506	DROP INLET DI-5		8	EA	\$42,200.00
08187	DROP INLET DI-10H TY. I, L=4		1	EA	\$4,915.00
09046	MANHOLE MH-1		39	LF	\$21,840.00
09057	FRAME & COVER MH-1		2	EA	\$1,730.00
09149	EROS. CONTR. STONE CL. A1 EC-1		155	SY	\$15,035.00
	***HEADER - SUBBASE/HMA/MILLING 12000-12999				
16241	NS AGG MATERIAL (UNDERPASS GRAVEL)		200	TON	\$14,000.00

10128	AGGR. BASE MATL. TY. I NO. 21B		7783	TON	\$326,886.00
10128	SWM POND ACCESS DRIVE		583	TON	\$20,405.00
16335	ASPHALT CONCRETE TY. SM-9.5A	x	738	TON	\$112,914.00
16340	ASPHALT CONCRETE TY. SM-9.5D	x	5210	TON	\$656,460.00
16345	ASPHALT CONCRETE TY. SM-9.5E (76-22)	x	1863	TON	\$242,190.00
16365	ASPHALT CONCRETE TY. IM-19.0A	x	2,559	TON	\$294,285.00
16390	ASPHALT CONCRETE TY. BM-25.0A	x	4825	TON	\$434,250.00
16522	FLEXIBLE PAVE. PLANING 0"-2"	x	28,512	SY	\$99,792.00
	***HEADER - CURB/WALK/MEDIAN/BARR. WALL/GR/PERM IA				
12020	STD. CURB CG-2		330	LF	\$7,755.00
12022	RADIAL CURB CG-2		53	LF	\$1,351.50
12030	STD. CURB CG-3		73	LF	\$1,715.50
12032	RADIAL CURB CG-3		6	LF	\$156.00
12600	STD. COMB. CURB & GUTTER CG-6		1566	LF	\$41,499.00
12610	RAD. COMB. CURB & GUTTER CG-6		437	LF	\$11,580.50
12700	STD. COMB. CURB & GUTTER CG-7		630	LF	\$15,750.00
12710	RAD. COMB. CURB & GUTTER CG-7		40	LF	\$1,020.00
13108	CG-12 DETECTABLE WARNING SURFACE		48	SY	\$12,720.00
13220	HYDR. CEMENT CONC. SIDEWALK 4"		125	SY	\$10,000.00
13462	MEDIAN BARRIER MB-7F		649	LF	\$61,655.00
13479	NS 54" BPPS-1 BARRIER		1140	LF	\$387,600.00
21020	MEDIAN STRIP MS-1		39	SY	\$1,872.00
21215	MEDIAN STRIP MS-2		1,976	LF	\$69,160.00
13315	GUARDRAIL TERMINAL GR-11		8	EA	\$5,720.00
13320	GUARDRAIL GR-2		2,550	LF	\$40,800.00
13345	ALT. BREAKAWAY CABLE TERM (GR-9)		8	EA	\$16,400.00
13347	GUARDRAIL TERM. GR-7 (WEATHER STEEL)		1	EA	\$2,600.00
13383	FIXED OBJECT ATTACH. GR-FOA-1 TY. 1		5	EA	\$8,500.00
13401	NS SPECIAL DESIGN BULLNOSE		1	EA	\$4,800.00
24600	REMOVE EXISITNG GUARDRAIL		1159	LF	\$2,607.75
13401	NS SPECIAL DESIGN IMPACT ATTENUATOR		1	EA	\$13,625.00
	***HEADER - RAILING/FENCE				
22643	FENCE FE-CL		1130	LF	\$18,645.00
22674	GATE FE-CL L=3'		2	EA	\$1,800.00
25003	HANDRAIL HR-1 TYPE II		661	LF	\$69,405.00
25004	HANDRAIL HR-1 TYPE III		200	LF	\$23,000.00
62016	RAILING, TEXAS T-6		78	LF	\$3,900.00
	***HEADER - MOT/PVMT DEMO/REMOVALS				
24430	DEMOLITION OF PAVEMENT (FLEXIBLE)		12950	SY	\$233,100.00
24265	TEMPORARY PAVEMENT		3,966	SY	\$190,368.00
24265	NS MAINTENANCE OF TRAFFIC / E&S		1	LS	\$850,000.00
24160	CONSTRUCTION SIGNS		1887	SF	\$60,384.00
24272	TRUCK MOUNTED ATTENUATOR		7744	HR	\$181,984.00
24278	GROUP 2 CHANNELIZING DEVICES		1	LS	\$24,000.00
24279	PORTABLE CHANGEABLE MESSAGE SIGN		46464	HR	\$88,281.60
24281	ELECTRONIC ARROW		30976	HR	\$37,171.20
24290	TRAFFIC BARRIER SER.CONC		14429	LF	\$404,012.00
13710	NS IMPACT ATTENUATOR		11	EA	\$170,500.00
54550	CONSTR. PAVE.MARK. (TY. F, CL I) 4"		47728	LF	\$11,932.00
54105	ERAD. OF EXIST.PAVE.MARKING		36280	LF	\$19,954.00
54210	REM.EXIST.RAISED PAVE. MARKER		165	EA	\$1,815.00
54240	TEMP. PAVE. MARKER 1 WAY		350	EA	\$4,410.00
	***HEADER - TOPSOIL/LANDSCAPE/SEED/E&SC				
27325	SOIL STABILIZATION MAT EC-3 TYPE A		1499	SY	\$9,743.50
27410	CHECK DAM, ROCK TY. I		12	EA	\$4,740.00
27415	CHECK DAM, ROCK TY. II		54	EA	\$26,460.00
27422	DEWATERING BASIN		2	EA	\$1,550.00
27430	SILTATION CONTROL EXCAVATION		300	CY	\$23,100.00

27451	INLET PROTECTION, TYPE A		12	EA	\$4,320.00
27461	INLET PROTECTION, TYPE B		25	EA	\$4,250.00
27462	INLET PROTECTION, TYPE C		7	EA	\$3,150.00
27505	TEMP. SILT FENCE		8000	LF	\$33,600.00
85012	NS CONSTRUCTION ENTRANCE		12	EA	\$34,800.00
27022	TOPSOIL CLASS B 2"		10.84	AC	\$49,864.00
39004	NS SEED MIXTURE (TEMP SEED)		4500	LB	\$45,000.00
27104	LEGUME SEED		843	LB	\$33,720.00
27105	LEGUME OVERSEEDING		527	LB	\$21,080.00
27102	REGULAR SEED		2602	LB	\$57,244.00
27103	OVER SEEDING		1626	LB	\$35,772.00
27215	FERTILIZER (15-30-15)		7	TON	\$14,000.00
27250	LIME		47	TON	\$65,800.00
38953	NS LANDSCAPE		1	LS	\$256,000.00
	***HEADER - SIGNS/SIGNALS/LIGHT/PVMT MARKS				
54075	TY. B CLASS VI PAVE. LINE MARK. 4"		14280	LF	\$39,270.00
54076	TY. B CLASS VI PAVE. LINE MARK. 6"		5250	LF	\$21,525.00
54077	TY. B CLASS VI PAVE. LINE MARK. 8"		3189	LF	\$17,539.50
54042	TY. B CLASS I PAVE. LINE MARK. 24"		1,164	LF	\$19,788.00
54079	TY. B CLASS VI PAVE. LINE MARK. 4" CONTRAST		2,465	LF	\$12,325.00
54217	SNOW PLOW. RAISED PAVE. MARK. ASPH. CONC.		165	EA	\$7,095.00
54218	SNOW PLOW RAISED PAVE. MARK. HYD. CONC.		19	EA	\$874.00
54300	PAVEMENT MESSAGE MARK. ELONGATED ARROW SINGLE		12	EA	\$948.00
54310	PAVEMENT MESSAGE MARK. ELONGATED ARROW DOUBLE		3	EA	\$474.00
54400	PAVEMENT MESSAGE MARK. "ONLY"		6	EA	\$2,520.00
50974	NS TRAFFIC - ITS/CCTV		1	LS	\$130,000.00
51952	NS INSTALL SIGN		1	LS	\$590,000.00
52000	NS TRAFFIC SIGNALIZATION		1	LS	\$350,000.00
59003	NS LIGHTING		1	LS	\$1,686,000.00
	***HEADER - RT 7 BRIDGE				
60120	STRUCTURE EXCAVATION		3567	CY	\$130,195.50
60210	TEMPORARY SHEET PILING		2160	SF	\$153,360.00
60403	CONCRETE CLASS A3	x	1,422	CY	\$853,200.00
60410	CONCRETE CLASS A4 (LIGHTWEIGHT)		2,085	CY	\$1,313,550.00
60450	CONCRETE CL. A4 BRIDGE APPR. SLAB		389	CY	\$169,215.00
60452	REINF. STEEL BRIDGE APPR. SLAB		55064	LB	\$63,323.60
60490	BRIDGE DECK GROOVING		7378	SY	\$18,445.00
60500	EPOXY RESIN COATING		470	SY	\$10,340.00
61700	REINF. STEEL		221,933	LB	\$221,933.00
61711	CORROSION RESISTANT REINF. STEEL CL. I		7000	LB	\$17,150.00
61713	CORROSION RESISTANT REINF. STEEL CL. III		462,525	LB	\$1,618,837.50
68107	STR. STEEL PLATE GIRDER ASTM A709 GR 50		1	LS	\$3,650,280.35
62010	CONCRETE PARAPET		960	LF	\$172,800.00
67090	NS PEDESTRIAN FENCE (7' HIGH)		690	LF	\$113,850.00
62043	RAILING, BR27C, 3 RAIL		960	LF	\$278,400.00
62201	WATERPROOFING		2376	SY	\$22,096.80
64005	SELECT MATL. TY I MIN. CBR-30		4648	TON	\$167,328.00
64032	GEOCOMPOSITE ABUT DRAIN		186	SY	\$2,604.00
64030	POROUS BACKFILL		30	CY	\$2,040.00
64036	PIPE UNDER DRAIN 6"		352	LF	\$1,619.20
64759	DRIVING TEST FOR 10" STEEL PILE		180	LF	\$16,920.00
64110	STEEL PILES 10"		3164	LF	\$110,740.00
85004	NS MICROPILE @ PIERS		1	LF	\$465,000.00
69491	CRACK REPAIRS (PIERS)		700	LF	\$30,800.00
69500	CONCRETE SUBSTRUCTURE SURFACE REPAIR		300	SY	\$214,500.00
64900	NS DISM. & REM. EXIST. STR, TYPE B		1	LS	\$1,600,000.00
68476	NS ENV. 7 WORKER PROTECTION		1	LS	\$27,000.00
68492	NS MATERIAL DISPOSAL		1	LS	\$10,000.00

69740	CONCRETE SLAB SLOPE PROTECTION 4"		143	SY	\$13,728.00
13570	N.S. RETAINING WALL		7900	SF	\$948,000.00
	***HEADER - SUP UNDERPASS STRUCTURES				
60210	TEMPORARY SHEET PILING		7275	SF	\$385,575.00
85004	NS - ARCH - RAMP I (STR.#1932)		84	LF	\$352,800.00
85004	NS - ARCH - RAMP H (STR.#1933)		72	LF	\$316,800.00
85004	NS - ARCH - RAMP F (STR.#1934)		50	LF	\$210,000.00
85004	NS - ARCH - RAMPS C & B (STR.#1935)		80	LF	\$400,000.00
	***HEADER - SUP OVERPASS - PEDESTRIAN BRIDGE				
85004	STRUCTURE EXCAVATION		146	CY	\$6,570.00
60125	NS - BRIDGE (PEDESTRIAN) - STR.#1936		1	LS	\$1,020,000.00
69740	CONCRETE 4" SLAP SLOPE PROT.		168	SF	\$3,024.00
64759	DRIVING TEST FOR 10" STEEL PILE		196	LF	\$18,620.00
64110	STEEL PILES 10"		772	LF	\$38,600.00
	***HEADER - RETAINING WALLS				
13570	NS RETAINING WALL		16492	SF	\$2,259,404.00
	***HEADER - NOISEWALL				
13543	NS WALL (NOISEWALL)		6,800	SF	\$272,000.00
		Total			\$39,887,000.00

¹ Use five-digit work item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes (i.e. 00100-Mobilization; 00120-Regular Excavation, etc...).

4.3.3 Monthly
Payment Schedule

Route 7 Widening and Bridge Rehabilitation over Dulles Toll Road and Airport Access Highway

State Project No: 0007-029-139, P101, R201, C501, B617, B618

Federal Project No: BR-5401 (738)

Contract ID No: C00082135DB77

Proposed Monthly Payment Schedule

2015		2016		2017		2018	
Month	Value	Month	Value	Month	Value	Month	Value
Jan-15	0.00	Jan-16	512,000.00	Jan-17	625,700.00	Jan-18	222,780.00
Feb-15	0.00	Feb-16	703,000.00	Feb-17	612,500.00	Feb-18	217,860.00
Mar-15	0.00	Mar-16	3,172,000.00	Mar-17	1,216,350.00	Mar-18	278,900.00
Apr-15	0.00	Apr-16	2,896,000.00	Apr-17	1,296,540.00	Apr-18	268,530.00
May-15	0.00	May-16	1,635,090.00	May-17	1,314,700.00	May-18	78,179.00
Jun-15	0.00	Jun-16	1,705,000.00	Jun-17	1,385,600.00	Jun-18	0.00
Jul-15	892,131.00	Jul-16	1,685,200.00	Jul-17	1,451,640.00	Jul-18	0.00
Aug-15	528,500.00	Aug-16	1,735,090.00	Aug-17	1,398,200.00	Aug-18	0.00
Sep-15	528,500.00	Sep-16	1,735,090.00	Sep-17	1,423,140.00	Sep-18	0.00
Oct-15	664,350.00	Oct-16	2,468,050.00	Oct-17	1,458,640.00	Oct-18	0.00
Nov-15	612,000.00	Nov-16	702,500.00	Nov-17	2,156,115.00	Nov-18	0.00
Dec-15	675,000.00	Dec-16	645,705.00	Dec-17	986,420.00	Dec-18	0.00
3,900,481.00		19,594,725.00		15,325,545.00		1,066,249.00	
						Contract Value	39,887,000.00

EXHIBIT 6.3(a)
ADJUSTMENT FOR ASPHALT

**SPECIAL PROVISION FOR
ASPHALT MATERIAL PRICE ADJUSTMENT
DESIGN-BUILD PROJECTS**

August 9, 2013

All asphalt material listed in the attached "Master Listing of Asphalt Material Items Eligible for Price Adjustment" will be adjusted in accordance with the provisions as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract. Any item added through a Work Order which contains Asphalt Material will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

Each month, the Department will publish an average state-wide PG 64-22 f.o.b. price per ton developed from the average terminal prices provided to the Department from suppliers of asphalt cement to contractors doing work in Virginia. The Department will collect terminal prices from approximately 12 terminals each month. These prices will be received once each month from suppliers on or about the last weekday of the month. The high and low prices will be eliminated and the remaining values averaged to establish the average statewide price for the following month. That monthly state-wide average price will be posted on the Construction Division website on or about the first weekday of the following month.

This monthly statewide average price will be the Base Index for all contracts on which Price Proposals are received during the calendar month of its posting and will be the Current Index for all asphalt placed during the calendar month of its posting. In the event an index changes radically from the apparent trend, as determined by the Engineer, the Department may establish an index which is determined to best reflect the trend.

The amount of adjustment applied will be based on the difference between the Price Proposal/Contract Base Index and the Current Index for the applicable calendar month during which the work is performed. Calculations must be done for each type of Asphalt Material put in place each month, whether the Current Index is higher or lower than the Base Index. The calculation for the adjustment shall be shown as follows:

$$A = Q \times \%AC \times IC$$

Where: A = Asphalt Adjustment Dollar Amount
Q = Quantity of Asphalt Material put in place during the month
%AC = % of Asphalt Cement in the Asphalt Material as specified in the Job Mix Formula
IC = Numeric Dollar Difference, either positive or negative, between the Base Index and Current Index

Example Calculation for Negative Price Adjustment (Credit back to VDOT):

7,500 Tons of SM-12.5A put in place during the month (Q), Job Mix is 6.1% Asphalt Cement for SM-12.5A (%AC), Base Index for the Contract is \$515/Ton, Current Index is \$500/Ton, Difference of - \$15.00/Ton (IC)

$$7,500 \text{ Tons SM-12.5A} \times 6.1\% \times -\$15.00/\text{Ton} = -\$6,862.50 \text{ Adjustment Amount}$$

Example Calculation for Positive Price Adjustment (Paid to the Design-Builder):

10,000 Tons of BM-25.0A put in place during the month (Q), Job Mix is 5.2% Asphalt Cement for BM-25.0A (%AC), Base Index for the Contract is \$515/Ton, Current Index is \$560/Ton, Difference of + \$45.00/Ton (IC)

$$10,000 \text{ Tons BM-25.0A} \times 5.2\% \times \$45.00/\text{Ton} = +\$23,400.00 \text{ Adjustment Amount}$$

Adjustment of any asphalt material item designated as a price adjustment item which does not contain PG 64-22, except PG 76-22 or PG 70-28, will be based on the indexes for PG 64-22. The quantity of asphalt cement for asphalt concrete pavement to which adjustment will be applied will be the quantity based on the percent of asphalt cement shown on the appropriate approved job mix formula.

The quantity of asphalt emulsion for surface treatments to which adjustment will be applied will be the quantity based on 65 percent residual asphalt.

Price adjustment will be shown as a separate entry on the monthly application of payment for work packages completed; however, such adjustment will not be included in the total cost of the work for progress determination or for extension of contract time. Items the Design-Builder claims in its application of payment for asphalt adjustments must include supporting calculations certified by the Quality Assurance Manager (QAM). These calculations must be completed relative to the calendar month under which the work was performed and shall be submitted for either positive or negative adjustment.

Any apparent attempt to unbalance bids in favor of items subject to price adjustment or failure to submit required cost and price data as noted hereinbefore may result in rejection of items for asphalt adjustment.

VIRGINIA DEPARTMENT OF TRANSPORTATION
MASTER LISTING OF
ASPHALT MATERIAL ITEMS ELIGIBLE FOR PRICE ADJUSTMENT
 (10-27-09)

ITEM	DESCRIPTION	UNITS	SPECIFICATION
10062	Asphalt-Stab. Open-Graded Material	Ton	313
10416	Liquid Asphalt	Gal	311 312
10420	Blotted Seal Coat Ty. B	Sy	ATTD
10422	Blotted Seal Coat Ty. C	Sy	ATTD
10423	Blotted Seal Coat Ty. C-1	Sy	ATTD
10424	Blotted Seal Coat Ty. D	Sy	ATTD
10598	Ns Asphalt Concrete	Ton	315
10606	Asphalt Concrete Ty. SM-9.5	Ton	315
10607	Asphalt Concrete Ty. SM-12.5A	Ton	315
10608	Asphalt Concrete Ty. SM-12.5D	Ton	315
10609	Asphalt Concrete Ty. SM-12.5E (76-22)	Ton	315
10610	Asphalt Concrete Ty. IM-19.0A	Ton	315
10611	Asphalt Concrete Ty. IM-19.0D	Ton	315
10612	Asphalt Conc. Base Cr. Ty. BM-25.0	Ton	315
10613	Asphalt Concrete Ty. BM-37.5	Ton	315
10635	Asphalt Concrete Ty. SM-9.5A	Ton	315
10636	Asphalt Concrete Ty. SM-9.5D	Ton	315
10637	Asphalt Concrete Ty. SM-9.5E (76-22)	Ton	315
10639	Asphalt Concrete Ty. SM-19.0	Ton	315
10642	Asphalt Concrete Ty. BM-25.0A	Ton	315
10643	Asphalt Concrete Ty. BM-25.0D	Ton	315
10650	Stone Matrix Asphalt SMA-9.5(70-22)	Ton	317
10651	Stone Matrix Asphalt SMA-9.5(76-22)	Ton	317
10652	Stone Matrix Asphalt SMA-12.5(70-22)	Ton	317
10653	Stone Matrix Asphalt SMA-12.5(76-22)	Ton	317
10654	Stone Matrix Asphalt SMA-19.0(70-22)	Ton	317
10655	Stone Matrix Asphalt SMA-19.0(76-22)	Ton	317
10701	Liquid Asphalt Coating	Sy	ATTD
12505	Asphalt Concrete Curb Backup Material	Ton	315
13240	Asphalt Concrete Sidewalk	Ton	504
16110	Emul. Asph. Slurry Seal Type A	Sy	ATTD
16120	Emul. Asph. Slurry Seal Type B	Sy	ATTD
16130	Emul. Asph. Slurry Seal Type C	Sy	ATTD
16144	Latex Mod. Emul. Treat. Type B	Ton	ATTD
16145	Latex Mod. Emul. Treat. Type C	Ton	ATTD
16146	Latex Mod. Emul. Treat. Ruffilling	Ton	ATTD
16161	Modified Single Seal	Sy	ATTD
16162	Modified Double Seal	Sy	ATTD
16249	Nontracking Tack Coat	Gal.	ATTD
16250	Liquid Asphalt Matf. CMS-2 (Mod)	Gal	ATTD

16251	Liquid Asphalt Matl. CMS-2	Gal	ATTD
16252	Liquid Asphalt Matl. CRS-2	Gal	ATTD
16253	Liquid Asphalt Matl. CRS-2H	Gal.	ATTD.
16254	Liquid Asphalt Matl. RC-250	Gal	ATTD
16256	Liquid Asphalt Matl. RC-800	Gal	ATTD
16257	Ns Liquid Asphalt Matl.	Gal	ATTD
16260	Liquid Asphalt Matl. CRS-2L	Gal	ATTD
16325	NS Asphalt Concrete	Ton	N/A
16330	Asphalt Concrete Ty. SM-9.0A	Ton	315
16335	Asphalt Concrete Ty. SM-9.5A	Ton	315
16337	Asph. Conc. Ty. SM-9.5ASL (Spot Level)	Ton	315
16340	Asphalt Concrete Ty. SM-9.5D	Ton	315
16342	Asph. Conc. Ty. SM-9.5DSL (Spot Level)	Ton	315
16345	Asphalt Concrete Ty. SM-9.5E (76-22)	Ton	315
16350	Asphalt Concrete Ty. SM-12.5A	Ton	315
16352	Asph. Con. Ty. SM-12.5ASL (Spot Level)	Ton	315
16355	Asphalt Concrete Ty. SM-12.5D	Ton	315
16357	Asph. Con. Ty. SM-12.5DSL (Spot Level)	Ton	315
16360	Asphalt Concrete Ty. SM-12.5E (76-22)	Ton	315
16365	Asphalt Concrete Ty. IM-19.0A	Ton	315
16370	Asphalt Concrete Ty. IM-19.0D	Ton	315
16373	Asphalt Concrete Ty. IM-19.0A (T)	Ton	315
16374	Asphalt Concrete Ty. IM-19.0D (T)	Ton	315
16377	Asphalt Concrete Ty. BM-37.5	Ton	315
16379	Asphalt Concrete Ty. IM-19.0T	Ton	315
16390	Asphalt Concrete Ty. BM-25.0A	Ton	315
16392	Asphalt Concrete Ty. BM-25.0D	Ton	315
16395	Asphalt Concrete Ty. BM-25.0A (T)	Ton	315
16397	Asphalt Concrete Ty. BM-25.0D (T)	Ton	315
16400	Stone Matrix Asphalt SMA-9.5(70-22)	Ton	ATTD
16401	Stone Matrix Asphalt SMA-9.5(76-22)	Ton	ATTD
16402	Stone Matrix Asphalt SMA-12.5(70-22)	Ton	ATTD
16403	Stone Matrix Asphalt SMA-12.5(76-22)	Ton	ATTD
16404	Stone Matrix Asphalt SMA-19.0(70-22)	Ton	ATTD
16405	Stone Matrix Asphalt SMA-19.0(76-22)	Ton	ATTD
16490	Hot Mix Asphalt Treatment	Ton	ATTD
16500	Surf.Preparation & Restoration Type I	Ton	ATTD
16502	Surf.Preparation & Restoration Type li	Ton	ATTD
16504	Surf.Preparation & Restoration Type lii	Ton	ATTD
67201	NS Asphalt Concrete Overlay	Ton	315
67210	NS Asphalt Concrete	Ton	315
68240	NS Asphalt Concrete	Ton	315

Exhibit 6.3(b)

Form C-16a
August 9, 2013

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
ASPHALT PRICE ADJUSTMENT (PG76-22 or PG 70-28)
DESIGN-BUILD PROJECTS**

INSTRUCTIONS - This form is to be completed and returned ONLY when asphalt concrete items containing PG 76-22 or PG 70-28 is being utilized on the project.

**PROJECT NUMBER: 0007-029-139, P101, R201, C501, B617, B618
Contract ID# C00082135DB77**

DISTRICT: Northern Virginia District

Bid Prices in this contract for items containing PG 76-22 or PG 70-28 asphalt cement were developed using an f.o.b.
price of \$ 673.00 per IMPERIAL ton for PG 76-22 or PG 70-28. This quote is project specific.

Price quotes signed by each supplier from which the Design-Builder proposes to obtain PG 76-22 or PG 70-28 shall be maintained by the Design-Builder. These quotes shall be retained on site during the life of the Contract for review by the Engineer upon request.

DATE: April 8, 2015

SIGNATURE: 

G.A. & F.C. Wagman, Inc.

(Firm or Corporation)

W002

(Vendor No.)

**EXHIBIT 6.3 (c)
ADJUSTMENT FOR FUEL**

**VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
OPTIONAL ADJUSTMENT FOR FUEL
DESIGN-BUILD PROJECTS**

June 30, 2011
(Revised) November 5, 2012

In the event the Design-Builder elects to seek adjustment for fuel items designated in the Price Proposal/Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract.

The Design-Builder will submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in fuel used on specific items of work identified in this provision. A master listing of standard items eligible for fuel adjustment is provided by the Department on its website at the following link <http://www.virginiadot.org/business/resources/masteroptionalfuelitems.pdf>. The listing on the web site also includes the corresponding fuel factor for each item. The fuel usage factor for each item is considered inclusive of all fuel usage.

The amount of adjustment will be computed from the change in the indexes and the on-site fuel use as shown in the Department's master listing of eligible items.

In order to be eligible for fuel adjustment under this provision, the Design-Builder shall clearly identify in within the Schedule of Values those pay items and the associated quantities it chooses to have fuel adjustment applied to in its work packages. Items the Design-Builder claims in its application of payment for fuel adjustments must be properly designated in order to be considered for adjustment. Items not properly designated or left out of the Design-Builder's Schedule of Values will automatically not be considered for adjustment.

The monthly index price to be used in the administration of this provision will be calculated by the Department from the Diesel fuel prices published by the U. S. Department of Energy, Energy Information Administration on highway diesel prices, for the Lower Atlantic region. The monthly index price will be the price for diesel fuel calculated by averaging each of the weekly posted prices for that particular month.

For the purposes of this provision, the base index price will be calculated using the data from the month preceding the receipt of bids. The base index price will be posted by the Department at the beginning of the month for all bids received during that month.

The current index price will be posted by the Department and will be calculated using the data from the month preceding the particular estimate being vouchered for payment.

The current monthly quantity for eligible items of work selected by the Design-Builder for fuel adjustment in its work packages will be multiplied by the appropriate fuel factor to determine the gallons of fuel to be cost adjusted. The amount of adjustment per gallon will be the net difference between the current index price and the base index price. Computation for adjustment will be made as follows:

$$S = (E - B) QF$$

Where; S = Monetary amount of the adjustment (plus or minus)
B = Base index price

E = Current index price
Q = Quantity of individual units of work
F = Appropriate fuel factor

Adjustments will not be made for work performed beyond the original contract time limit unless the original time limit has been changed by an executed Work Order.

If new pay items are added to this contract by Work Order and they are listed in the Department's master listing of eligible items, the Work Order must indicate which of these individual items will be fuel adjusted; otherwise, those items will not be fuel adjusted. If applicable, designating which new pay items will be added for fuel adjustment must be determined during development of the Work Order and clearly shown on the Work Order form. The Base Index price on any new eligible pay items added by Work Order will be the Base Index price posted for the month in which bids were received for that particular project. The Current Index price for any new eligible pay items added by Work Order will be the Index price posted for the month preceding the estimate on which the Work Order is paid.

When quantities differ between the last monthly application of payment prepared upon final acceptance and the final application of payment, adjustment will be made using the appropriate current index for the period in which that specific item of work was last performed.

In the event any of the base fuel prices in this contract increase more than 100 percent (i.e. fuel prices double), the Department will review each affected item of work and give the Design-Builder written notice if work is to stop on any affected item of work. The Department reserves the right to reduce, eliminate or renegotiate the price for remaining portions of affected items of work.

Any amounts resulting from fuel adjustment will not be included in the total cost of work for determination of progress or for extension of contract time.

I elect to use this provision

I elect not to use this provision

Date: April 8, 2015

Signature: 

Design-builder: G. A. & F. C. Wagman, Inc.

Vendor No.: W002

EXHIBIT 6.3(d)
ADJUSTMENT FOR STEEL

VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
PRICE ADJUSTMENT FOR STEEL
DESIGN-BUILD PROJECTS

June 30, 2011

In the event the Design-Builder elects to seek adjustment for steel items designated in the Price Proposal/Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. If new pay items which involve steel are established by Work Order, they will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

The Design-Builder will submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in steel used on specific items of work identified in the Price Proposal/contract in accordance with this provision. Provided at the end of this provision is a master listing of standard bid items the Department has determined are eligible for steel price adjustment. Inventoried materials from the listing of eligible items are specifically excluded for consideration. In addition, concrete items where reinforcing steel is normally included in the unit bid price for the item such as (but not limited to) drop inlets, median barriers, sound barrier walls, bridge railing and parapets, are not eligible for consideration under this provision.

The requirements of this provision shall apply only to material cost changes that occur between the date of the opening of the Price Proposal and the date the material is shipped to the fabricator. To be eligible for this price adjustment, Design-Builder is required to fill out the accompanying Form for Price Adjustment for Eligible Steel Items on Design-Build Projects and submit the same with its Price Proposal for the Project. By signing the Form and submitting it with its Price Proposal Design-Builder declares its intention to participate in the price adjustment in its contract with the Department. For the purposes of this provision, the prices listed on the Form for Price Adjustment for Eligible Steel Items on Design-Build projects are fixed for cost and adjustment calculations regardless of quantities incorporated into final design. Further, in order for steel items to be eligible for adjustment, once shipped to the fabricator, the items shall be specifically stored, labeled, or tagged, recognizable by color marking, and identifiable by project for inspection and audit verification.

Design-Builder shall upon request furnish documentation supporting the price per pound for eligible steel items as shown on the Form for Price Adjustment for Eligible Steel Items on Design-Build Projects furnished with its Price Proposal. Design-Builder must use the format as shown with this Form; no other format for presenting this information will be permitted. Design-Builder shall certify that all items of documentation are original and were used in the computation of the price per pound amount for the represented eligible pay items for the month the Price Proposal was opened. This documentation shall support the base line material price ("Base Price") of the steel item only. Base price per pound shall not include the following cost components: fabrication, shipping, storage, handling, and erection.

Failure to submit all documentation required or requested supporting the per pound prices on eligible steel items will result in Design-Builder being ineligible for a price adjustment of any or all steel items.

Price adjustment of each qualifying item under consideration will be subject to the following condition:

There is an increase or decrease in the cost of eligible steel materials in excess of 10 percent up to a maximum of 60 percent from the Base Price when compared with the latest published price index ("Price Index") in effect at the time material is shipped to the fabricator.

The Price Index the Department is using is based on The U.S. Department of Labor, Bureau of Labor Statistics, Producers Price Index (PPI) which measures the average price change over time of the specific steel eligible item from the perspective of the seller of goods. The Master List table provided at the end of this provision indicates the Producers Price Index (PPI) steel category index items and the corresponding I.D. numbers to which VDOT items will be compared. **Please note:** The Producers Price Index (PPI) is subject to revision 4 months after original publication, therefore, price adjustments and payments will not be made until the index numbers are finalized.

The price adjustment will be determined by computing the percentage of change in index value beyond 10 percent above or below the index on the date of opening of Design-Builder's Price Proposal to the index value on the date the steel material is shipped to the fabricator (Please see included sample examples). Weights and date of shipment must be documented by a bill of lading provided to the Department. The final price adjustment dollar value will be determined by multiplying this percent increase or decrease in the index (after 10%) by the represented quantity of steel shipped, by the Base Price per pound subject to the limitations herein.

Price increase/decrease will be computed as follows:

$$A = B \times P \times Q$$

- Where;
- A = Steel price adjustment in lump sum dollars
 - B = Average weighted price of steel submitted in Design-Builder's Price Proposal for project in price per pound as listed on the Form for Price Adjustment for Eligible Steel Items on Design-Build Project
 - P = Adjusted percentage change in PPI average from shipping date to date of opening of Price Proposal minus 10% (0.10) threshold
 - Q = Total quantity of steel in pounds shipped to fabricator for specific project

The need for application of the adjustments herein to extra work will be determined by the Engineer on an individual basis and, if appropriate, will be specified on the Work Order.

This price adjustment is capped at 60 percent. This means the maximum "P" value for increase or decrease that can be used in the above equation is 50% (60%-10% threshold).

Calculations for price adjustment shall be shown separate from the monthly progress payment for work packages and will not be included in the total cost of work for determination of progress or for extension of contract time.

Upon Department review and due process consideration for redress by Design-Builder, any apparent evidence to unbalance the price supplied by Design-Builder in favor of items subject to price adjustment will result in ineligibility for Department participation under this provision.

Sample Calculation of a Price Adjustment (increase)

Project bid on April 28, 2004.

Project has 450,000 lb. of eligible structural steel.

Design Builder's *f.o.b. supplier price for structural steel submitted in the Price Proposal is \$0.2816 per pound. *free on board

Adjusted** BLS Producers Price Index (PPI) most recently published average at time of opening of the Price Proposal is 139.6.

All eligible steel shipped to fabricator in same month, October 2004.

Adjusted BLS Producers Price Index (PPI) most recently published average for month of October is 161.1

Adjustment formula is as follows:

$$A = B \times P \times Q$$

- Where;
- A = Steel price adjustment in lump sum dollars
 - B = Average weighted price of steel submitted in the Price Proposal for Design-Build project in \$ per pound
 - P = Adjusted percentage change in PPI average from shipping date to date of submitted Price Proposal minus 10% (0.10) threshold
 - Q = Total quantity of eligible steel shipped to fabricator in October 2004 for this project in pounds

$$B = \$0.2816$$

$$P = (161.1 - 139.6) / 139.6 - 0.10 = 0.054$$

$$Q = 450,000 \text{ lb.}$$

$$A = 0.2816 \times 0.054 \times 450,000$$

$$A = \$6,842.88 \text{ pay adjustment to Design-Builder}$$

Sample Calculation of a Price Adjustment (decrease)

Project bid on April 28, 2004.

Project has 450,000 lb. of eligible structural steel.

Design-Builder's *f.o.b. supplier price for structural steel submitted in the Price Proposal is \$0.2816 per pound. *free on board

Adjusted BLS Producers Price Index (PPI) most recently published average at time of opening of the Price Proposal is 156.6.

All eligible steel shipped to fabricator in same month, October 2004.

Adjusted BLS Producers Price Index (PPI) most recently published average for month of October is 136.3

Adjustment formula is as follows:

$$A = B \times P \times Q$$

- Where;
- A = Steel price adjustment in lump sum dollars
 - B = Average weighted price of steel submitted in the Price Proposal for Design-Build project in \$ per pound
 - P = Adjusted percentage change in PPI average from shipping date to date of submitted Price Proposal minus 10% (0.10) threshold
 - Q = Total quantity of eligible steel shipped to fabricator in October 2004 for this project in pounds

$$B = \$0.2816$$

$$P = (156.6 - 136.3)/156.6 - 0.10 = 0.030$$

$$Q = 450,000 \text{ lb.}$$

$$A = 0.2816 \times 0.030 \times 450,000$$

$$A = \$3,801.60 \text{ credit to Department}$$

MASTER LISTING

STANDARD BID ITEMS ELIGIBLE FOR STEEL PRICE ADJUSTMENT

March 18, 2009

BLS Series I. D.

ITEM NUMBER	ITEM DESCRIPTION	UNITS	Number WPU used in \$ adjust.
00519	SHEET PILE, STEEL	SF	avg. 1017 & 101
00540	REINF. STEEL	LB	101704
00542	EPOXY COATED REINF. STEEL	LB	101704
00560	STRUCTURAL STEEL JB-1	LB	avg. 1017 & 101
11030	REINF. STEEL BRIDGE APPR. SLAB	LB	101704
11181	PATCH.HYDR.CEM.CONC. PAVE.	SY	101704
13290	GUARDRAIL GR-8 (NCHRP 350 TL-3)	LF	avg. 1017 & 101
13292	GUARDRAIL GR-8A (NCHRP 350 TL-3)	LF	avg. 1017 & 101
13294	GUARDRAIL GR-8B (NCHRP 350 TL-3)	LF	avg. 1017 & 101
13310	GUARDRAIL TERMINAL GR-6 (NCHRP 350)	LF	avg. 1017 & 101
13320	GUARDRAIL GR-2	LF	avg. 1017 & 101
13323	GUARDRAIL GR-2A	LF	avg. 1017 & 101
13331	RAD. GUARDRAIL GR-2	LF	avg. 1017 & 101
13333	RAD. GUARDRAIL GR-2A	LF	avg. 1017 & 101
13335	GUARDRAIL GR-3	LF	avg. 1017 & 101
13341	GUARDRAIL TER. GR-6(WEATHERING STEEL	LF	avg. 1017 & 101
13351	GUARDRAIL GR-8	LF	avg. 1017 & 101
13352	GUARDRAIL GR-8A	LF	avg. 1017 & 101
13353	GUARDRAIL GR-8B	LF	avg. 1017 & 101
13355	GUARDRAIL GR-10	LF	avg. 1017 & 101
13421	MEDIAN BARRIER MB-3	LF	avg. 1017 & 101
13450	MEDIAN BARRIER MB-5	LF	avg. 1017 & 101
13451	MEDIAN BARRIER MB-5A	LF	avg. 1017 & 101
13452	MEDIAN BARRIER MB-5B	LF	avg. 1017 & 101
13545	REINF. STEEL	LB	101704
14502	REINFORCING STEEL	LB	101704
15290	PATCH.CEM.CONC.PAVE.TY.CRCP-A	SY	101704
15302	PATCH.CEM.CONC.PAVE. TY. II	SY	101704
15305	PATCH.CEM.CONC.PAVE.TY. IV-A	SY	101704
17323	GUARDRAIL BEAM *	LF	avg. 1017 & 101
17325	RADIAL GUARDRAIL BEAM *	LF	avg. 1017 & 101
17327	RUB RAIL	LF	avg. 1017 & 101
17353	CABLE GR-3	LF	avg. 1017 & 101
17521	GUARDRAIL BEAM (WEATHERING STEEL)	LF	avg. 1017 & 101
17523	RADIAL GUARDRAIL BEAM (WEATHERING STEEL)	LF	avg. 1017 & 101
17525	RUB RAIL (WEATHERING STEEL)	LF	avg. 1017 & 101
22501	FENCE FE-W1	LF	avg. 1017 & 101
22643	FENCE FE-CL	LF	avg. 1017 & 101
22645	FENCE FE-CL VINYL COATED	LF	avg. 1017 & 101
23043	WATER GATE FE-4 TY.III	LF	avg. 1017 & 101
23501	FENCE FE-W1 (FABRIC ONLY)	LF	avg. 1017 & 101
45522	4" STEEL ENCASE. PIPE	LF	101706
45532	6" STEEL ENCASE. PIPE	LF	101706
45562	16" STEEL ENCASE. PIPE	LF	101706

45572	18" STEEL ENCASE. PIPE	LF	101706
45582	24" STEEL ENCASE. PIPE	LF	101706
45584	24" JACKED STEEL ENCASUREMENT PIPE	LF	101706
45592	30" STEEL ENCASE. PIPE	LF	101706
50402	SIGN POST STEEL 3"	LF	101706
50404	SIGN POST STEEL 4"	LF	101706
50406	SIGN POST STEEL 6"	LF	101706
50410	SIGN POST STEEL 10"	LF	101706
50412	SIGN POST STEEL 12"	LF	101706
50414	SIGN POST STEEL 14"	LF	101706
50416	SIGN POST STEEL 16"	LF	101706
50418	SIGN POST STEEL 18"	LF	101706
51317	SIG. POLE MP-1 20' ONE ARM 30'	EA	101706
51319	SIG. POLE MP-1 20' ONE ARM 32'	EA	101706
51325	SIG. POLE MP-1 20' ONE ARM 38'	EA	101706
51327	SIG. POLE MP-1 20' ONE ARM 40'	EA	101706
51329	SIG. POLE MP-1 20' ONE ARM 42'	EA	101706
51331	SIG. POLE MP-1 20' ONE ARM 44'	EA	101706
51337	SIG. POLE MP-1 20' ONE ARM 50'	EA	101706
51339	SIG. POLE MP-1 20' ONE ARM 52'	EA	101706
51341	SIG. POLE MP-1 20' ONE ARM 54'	EA	101706
51344	SIG. POLE MP-1 20' ONE ARM 56'	EA	101706
51346	SIG. POLE MP-1 20' ONE ARM 58'	EA	101706
51347	SIG. POLE MP-1 20' ONE ARM 60'	EA	101706
51348	SIG. POLE MP-1 20' ONE ARM 62'	EA	101706
51368	SIG.POLE MP-1 20'TWO ARMS 36'& 42'	EA	101706
51400	SIG.POLE MP-1 CO.LU.ONE ARM 38	EA	101706
51402	SIG.POLE MP-1 CO.LU.ONE ARM 40	EA	101706
51408	SIG.POLE MP-1 CO.LU.ONE ARM 46	EA	101706
51412	SIG.POLE MP-1 CO.LU.ONE ARM 50	EA	101706
51414	SIG.POLE MP-1 CO.LU.ONE ARM 52	EA	101706
51416	SIG.POLE MP-1 CO.LU.ONE ARM 54	EA	101706
51418	SIG.POLE MP-1 CO.LU.ONE ARM 56	EA	101706
51420	SIG.POLE MP-1 CO.LU.ONE ARM 58	EA	101706
51422	SIG.POLE MP-1 CO.LU.ONE ARM 60	EA	101706
55162	LIGHTING POLE LP-1 30'-4'	EA	101706
55163	LIGHTING POLE LP-1 30'-6'	EA	101706
55166	LIGHTING POLE LP-1 30'-12'	EA	101706
55169	LIGHTING POLE LP-1 35'-6'	EA	101706
55171	LIGHTING POLE LP-1 35'-10'	EA	101706
55176	LIGHTING POLE LP-1 40'-8'	EA	101706
55185	LIGHTING POLE LP-2 TYPE A	EA	101706
55186	LIGHTING POLE LP-2 TYPE B	EA	101706
55187	LIGHTING POLE LP-2 TYPE C	EA	101706
55188	LIGHTING POLE LP-2 TYPE D	EA	101706
55189	LIGHTING POLE LP-2 TYPE E	EA	101706
55190	LIGHTING POLE LP-2 TYPE F	EA	101706
55192	LIGHTING POLE LP-2 TYPE H	EA	101706
60452	REINF. STEEL BRIDGE APPR. SLAB	LB	101704
61700	REINF. STEEL	LB	101704
61704	CORROSION RESISTANT REINF. STEEL	LB	101704
61705	EPOXY COATED REINF. STEEL	LB	101704
61750	STRUCT.STEEL HIGH STRG.PLT.GIRDERS	LB	avg. 1017 & 101
61811	STR.STEEL PLATE GIRDER ASTM A709 GRADE50	LB	avg. 1017 & 101
61812	STR.STEEL PLATE GIRDER ASTM A709 GRADE50	LB	avg. 1017 & 101
61813	STR.STEEL PLATE GIRDER ASTM A709 GRADEHPS50W	LB	avg. 1017 & 101

61814	STR.STEEL PLATE GIRDER ASTM A709 GRADEHPS70W	LB	avg. 1017 & 101
61820	STR.STEEL ROLLED BEAM ASTM A709 GRADE 36	LB	avg. 1017 & 101
61821	STR.STEEL ROLLED BEAM ASTM A709 GRADE50	LB	avg. 1017 & 101
61822	STR.STEEL ROLLED BEAM ASTM A709 GRADE50W	LB	avg. 1017 & 101
61990	STEEL GRID FLOOR	SF	avg. 1017 & 101
64110	STEEL PILES 10"	LF	avg. 1017 & 101
64112	STEEL PILES 12"	LF	avg. 1017 & 101
64114	STEEL PILES 14"	LF	avg. 1017 & 101
64768	DRIVING TEST FOR 12" STEEL PILE	LF	avg. 1017 & 101
64778	DRIVING TEST FOR 14" STEEL PILE	LF	avg. 1017 & 101
65200	REINF. STEEL	LB	101704
65204	CORROSION RESISTANT REINF. STEEL	LB	101704
65205	EPOXY COATED REINF. STEEL	LB	101704
67086	PED. FENCE 6'	LF	avg. 1017 & 101
67088	PED. FENCE 8'	LF	avg. 1017 & 101
67089	PED. FENCE 10'	LF	avg. 1017 & 101
68100	REINF. STEEL	LB	101704
68104	CORROSION RESISTANT REINF. STEEL	LB	101704
68105	EPOXY COATED REINF. STEEL	LB	101704
68107	STR.STEEL PLATE GIRDER ASTM A709 GRADE50	LB	avg. 1017 & 101
68108	STR. STEEL PLATE GIRDER ASTM A709 GR50W	LB	avg. 1017 & 101
68109	STR. STEEL PLATE GIRDER ASTM A709 GR.HPS50W	LB	avg. 1017 & 101
68110	STR. STEEL PLATE GIRDER ASTM A709 GR.HPS70W	LB	avg. 1017 & 101
68112	STR.STEEL ROLLED BEAM ASTM A709 GR.36	LB	avg. 1017 & 101
68113	STR.STEEL ROLLED BEAM ASTM A709 GR.50	LB	avg. 1017 & 101
68114	STR.STEEL ROLLED BEAM ASTM A709 GR. 50W	LB	avg. 1017 & 101
68115	STRUCT. STEEL	LB	avg. 1017 & 101
68270	REINF. STEEL BRIDGE APPR. SLAB	LB	101704
69060	SHEET PILES, STEEL	SF	avg. 1017 & 101
69100	REINF. STEEL	LB	101704
69104	CORROSION RESISTANT REINF. STEEL	LB	101704
69105	EPOXY COATED REINF. STEEL	LB	101704
69110	STEEL PILES 10"	LF	avg. 1017 & 101
69112	STEEL PILE 12"	LF	avg. 1017 & 101
69113	DRIVING TEST FOR 12" STEEL PILE	LF	avg. 1017 & 101

I elect to use this provision
 I elect not to use this provision

Date: April 8, 2015

Signature: 

Design-Builder: G.A. & F.C.Wagman, Inc.

Vendor No.: W002

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSAL GUARANTY

KNOW ALL MEN BY THESE PRESENTS, THAT WE G.A. & F. C. Wagman, Inc. As principal, and Western Surety Company Surety, are held and firmly bound unto the Commonwealth of Virginia as obligee, in the amount of FIVE PERCENT OF THE DOLLAR VALUE OF THE BID, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally and firmly by these presents.

SIGNED, sealed and dated this 9th Day of April, 20 15

WHEREAS, the above said principal is herewith submitting its proposal for: Route 7 Widening and Bridge
Contract ID: C00082135D877, State Project No: 007-029-139,
PROJECT NUMBER: P101, R201, C501, B617, B618, Federal Project No. BR-5401(738) Rehabilitation over Dulles Toll Road and Airport Access Highway, From 0.56 miles West of Tyco Road To: 0.13 Miles West of Tyco Road, Fairfax County, Virginia

NOW, THEREFORE, the condition of the above obligee is such, that if the aforesaid principal shall be awarded the contract upon said proposal and shall within the time specified in the Specifications after the notice of such award enter into a contract and give bond for the faithful performance of the contract, then this obligation shall be null and void; otherwise to remain in full force and effect and the principal and surety will pay unto the obligee the difference in money between the amount of the bid of the said principal and the amount for which the obligee may legally contract with another party to perform the said work if the latter amount be in excess of the former; but in no event shall the liability exceed the penal sum hereof.

G.A. & F. C. Wagman, Inc.

Western Surety Company

By: 
(Officer, Partner or Owner) (Seal)

By: 
(Attorney-in-Fact**) (Seal) Patricia C. Robinson

Gregory M. Andricos, President COO

4550 Lena Drive, Mechanicsburg, PA 17055

(Principal*)

(Address)

By: _____
(Officer, Partner or Owner) (Seal)

By: _____
(Surety Company)

(Principal*)

(Attorney-in-Fact**) (Seal)

By: _____
(Officer, Partner or Owner) (Seal)

By: _____
(Address)

*Note: If the principal is a joint venture, each party thereof must be named and execution made by same hereon. If there is more than one surety to the bid bond, each surety must be named and execution shall be made by same hereon.

Electronic Bid Only: In lieu of completing the above section of the Contract Performance Bond, the Principal shall file an Electronic Bid Bond when bidding electronically. By signing below the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the Commonwealth of Virginia under the same conditions of the bid bond as shown above.

Electronic Bid Bond ID#

Company/Bidder Name

Signature and Title

**Attach copy of Power of Attorney

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

James R Gould, Joseph G Buyakowski, Alson O Wolcott Jr, Eugene M Fritz, Patricia C Robinson, Kathy R Reisinger, Donald R Wert, Individually

of Mechanicsburg, PA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 4th day of August, 2014.



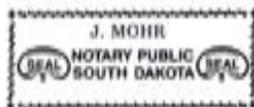
WESTERN SURETY COMPANY

Paul T. Bruflat
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 4th day of August, 2014, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
June 23, 2015



J. Mohr
J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 9th day of April, 2015.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

PROJECT: 0007-029-139, P101, R201, C501, B617, B618

FHWA: BR-5401 (738)

This form must be completed, signed and returned with bid; and failure to do so may result in the rejection of your bid. **THE CONTRACTOR SHALL AFFIRM THE FOLLOWING STATEMENT EITHER BY SIGNING THE AFFIDAVIT AND HAVING IT NOTARIZED OR BY SIGNING THE UNSWORN DECLARATION UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES. A SEPARATE FORM MUST BE SUBMITTED BY EACH PRINCIPAL OF A JOINT VENTURE BID.**

STATEMENT. In preparation and submission of this bid, I, the firm, corporation or officers, agents or employees thereof did not, either directly or indirectly, enter into any combination or arrangement with any persons, firm or corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section 1) or Article 1.1 or Chapter 12 of Title 18.2 (Virginia Governmental Frauds Act), Sections 59.1-9.1 through 59.1-9.17 or Sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.

AFFIDAVIT

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Mecklenburg County, Virginia, this 8th day of April, 20 15
County (City), STATE

G.A. & F.C. Wagman, Inc. By: David W. Lyle David W. Lyle, Vice Pres.
(Name of Firm) (Signature) Title (print)

STATE of Virginia COUNTY (CITY) of Mecklenburg County

To-wit:

I Jeanie Prince Jones, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day David W. Lyle

personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

Subscribed and sworn to before me this 8th day of April, 20 15

Jeanie Prince Jones My Commission expires 11/30/2017
Notary Public Jeanie Prince Jones

OR

UNSWORN DECLARATION

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at _____, this _____ day of _____, 20 _____
County (City), STATE

By: _____
(Name of Firm) (Signature) Title (print)



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
AFFIDAVIT**

PROJECT No.: 0007-029-139, P101, R201, C501, B617, B618

FHWA Project No.: BR-5401 (738)

This form must be completed, signed, notarized and returned with bid; and failure to do so, may result in the rejection of your bid. A separate form must be submitted by each principal of a joint venture bid.

1. I, the firm, corporation or officers, agents or employees thereof have neither directly nor indirectly entered into any combination or arrangement with any person, firm or corporation or entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract, the effect of which is to prevent competition or increase the cost of construction or maintenance of roads or bridges.

During the preceding twelve months, I (we) have been a member of the following Highway Contractor's Associations, as defined in Section 33.1-336 of the Code of Virginia (1970). (If none, so state).

NAME	Location of Principal Office
VTCA	620 Moorefield Park Drive, Richmond, VA 23236
_____	_____
_____	_____

2. I (we) have , have not , participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that I/We have , have not , filed with the joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7(b)(1)], and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contract or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contract and subcontract unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

(Continued)

ORDER NO.:
CONTRACT ID. NO.:

Form C-105
page 2

3. The bidder 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 judgement rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation 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 above; and
 - (d) Where the bidders is unable to certify to any of the statements in this certification, the bidder shall show an explanation below.

Explanations will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any explanation noted, indicate below to whom it applies, initiating agency, and dates of action. Providing false information may result in federal criminal prosecution or administration sanctions. The bidder shall provide immediate written notice to the Department if at any time the bidder learns that its certification was erroneous when submitted or has become erroneous by reason of change circumstances.

The undersigned is duly authorized by the bidder to make the foregoing statements to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Mecklenburg County, VA, this 8th day of April, 20 15
County (City), STATE

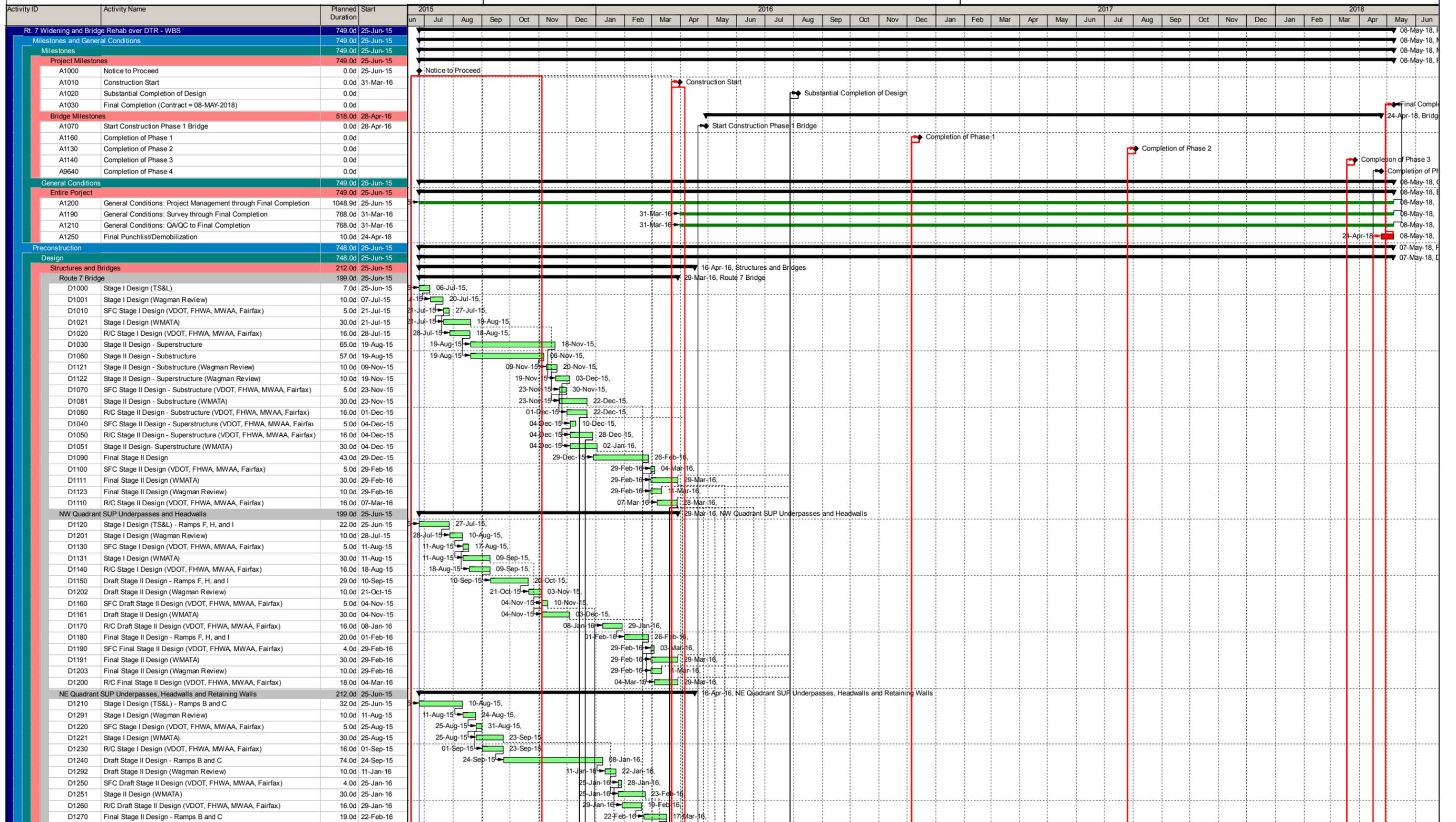
G.A. & F.C. Wagman, Inc. By: David W. Lyle David W. Lyle, Vice Pres.
(Name of Firm) (Signature) Title (print)

STATE of Virginia COUNTY (CITY) of Mecklenburg County

I, Jeanie Prince Jones To-wit: David W. Lyle, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day David W. Lyle personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

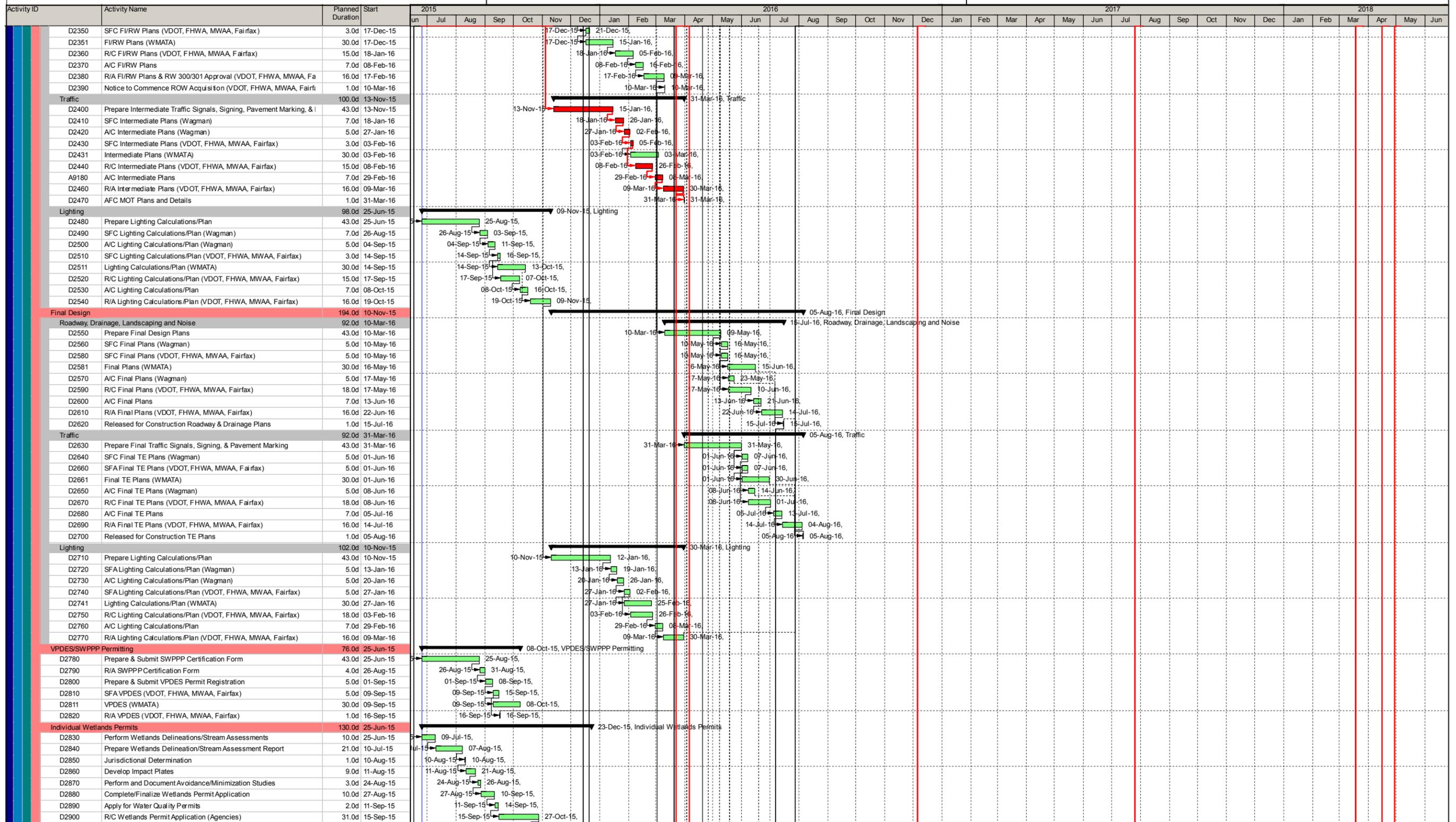
Subscribed and sworn to before me this 8th day of April, 20 15
Jeanie Prince Jones My Commission expires 11/30/2017
Notary Public





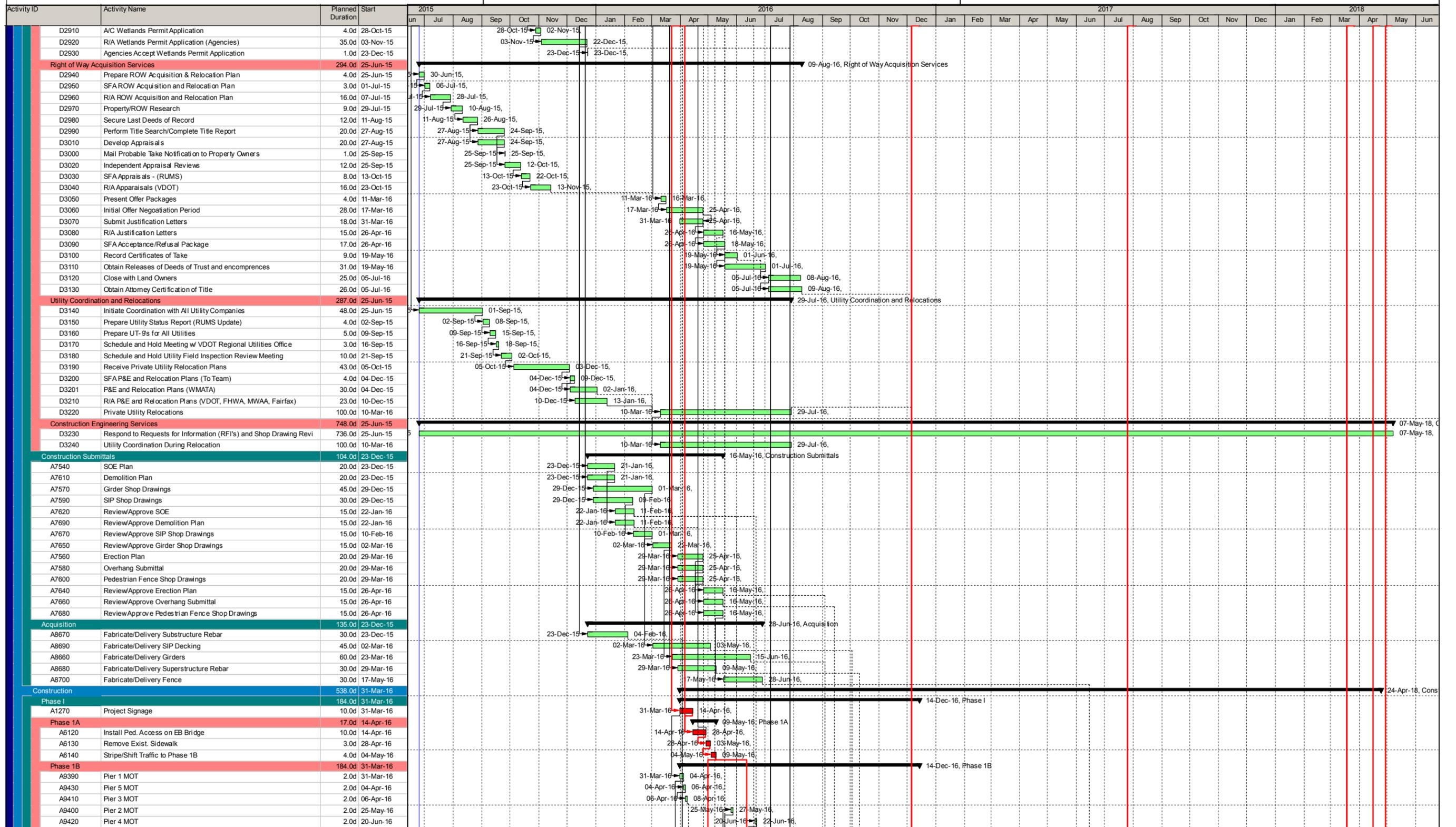
ABBREVIATIONS

A/C	Address Comments	SFA	Submit for Approval
R/A	Review and Approve	SFC	Submit for Comment
R/C	Review and Comment	FRPS	Form, Rebar, Pour, Strip



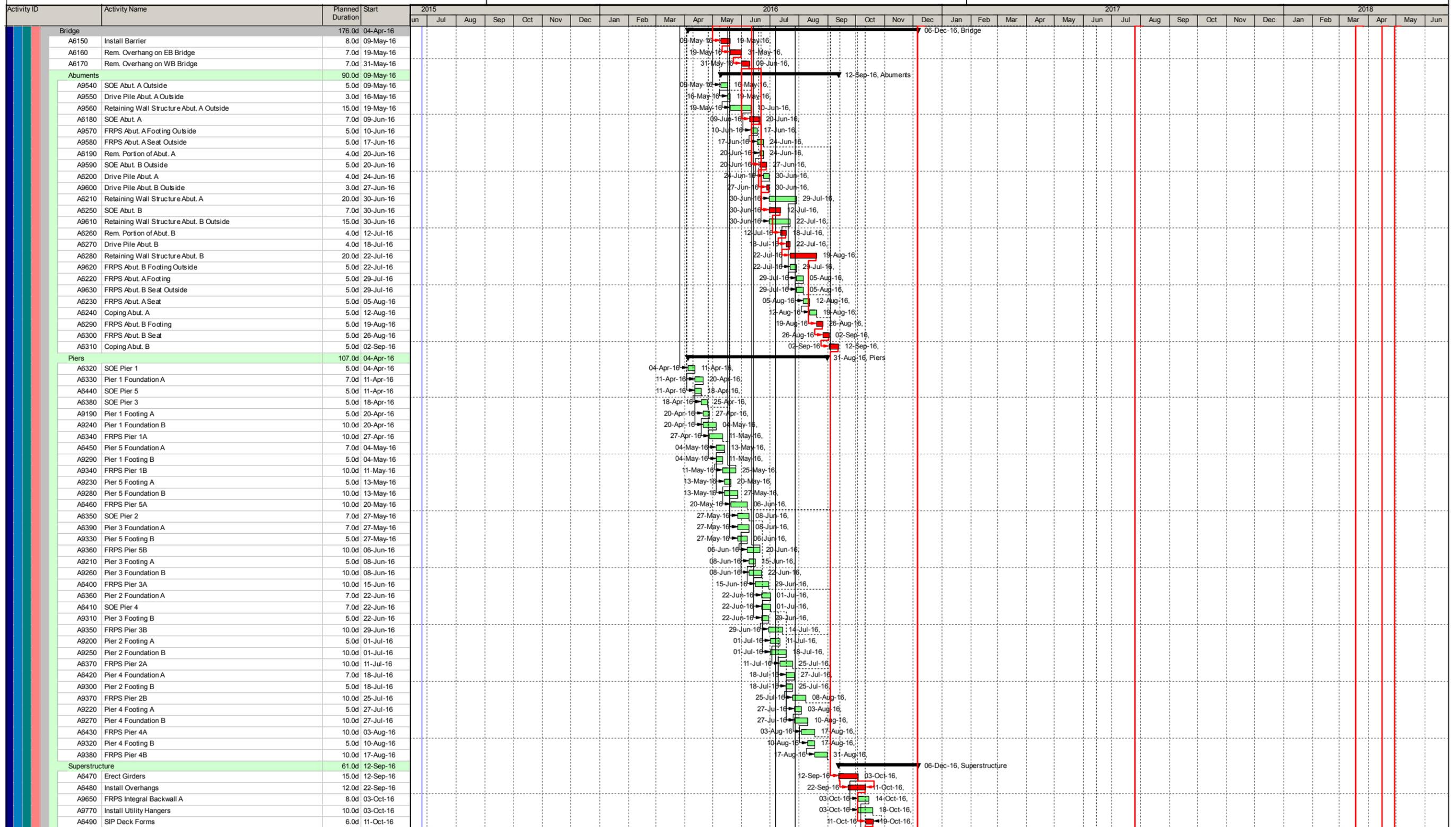
ABBREVIATIONS

A/C	Address Comments	SFA	Submit for Approval
R/A	Review and Approve	SFC	Submit for Comment
R/C	Review and Comment	FRPS	Focus, Rehab, Pour, Strip



ABBREVIATIONS

A/C	Address Comments	SFA	Submit for Approval
R/A	Review and Approve	SFC	Submit for Comment
R/C	Review and Comment	FRPS	Form, Rebar, Pour, Strip



ABBREVIATIONS

A/C	Address Comments	SFA	Submit for Approval
R/A	Review and Approve	SFC	Submit for Comment
R/C	Review and Comment	FRPS	Form, Rebar, Pour, Strip

4.2.4 Proposal Schedule and Narrative. The Wagman Team has provided a Proposal Schedule and Proposal Narrative demonstrating our understanding of the complexities and interrelationships of the technical elements of the Project. PDF copies of the Proposal Schedule and narrative as well as a back-up copy of the Proposal Schedule’s source document have been provided on a CD-ROM.

4.2.4.1 Proposal Schedule. The Wagman Team has developed a Proposal Schedule (located in Volume II), which takes into account the internal plan reviews, VDOT plan reviews and approvals, environmental permitting and constraints, right-of-way acquisition, utility relocation, construction activities, and QA/QC inspection and testing. Our Final Completion Date of May 8, 2018 is within the required time frame as listed in RFP Section 2.3.1.

The Proposal Schedule depicts the Wagman Team’s proposed overall sequence of work and duration for each work task and deliverable required to complete the Project. The schedule is organized using a hierarchical Work Breakdown Structure (WBS), divided into major phases of the Project.

4.2.4.2 Proposal Schedule Narrative. In addition to the technical elements, the narrative also describes the Wagman Team’s plan to accomplish the Work including, but not limited to, the overall sequencing, a description and explanation of the Critical Path, proposed means and methods, and other key assumptions upon which the Proposal Schedule is based.

Schedule Development

The Wagman Team has reviewed in detail the scope and schedule requirements outlined in the RFP documents. Numerous site visits and team meetings were planned, pre-proposal meetings were attended, proprietary meeting discussions occurred, and the schedule task force was developed to build a comprehensive schedule for the Route 7 Widening and Bridge Rehabilitation over Dulles Toll Road & Airport Access Highway.

The Wagman Team is committed to providing VDOT with a completed Project by May 8, 2018.

Project Milestones

[-] Project Milestones		749.0d	25-Jun-15	08-May-18
A1000	Notice to Proceed	0.0d	25-Jun-15	
A1010	Construction Start	0.0d	31-Mar-16	
A1020	Substantial Completion of Design	0.0d		05-Aug-16
A1030	Final Completion (Contract = 08-MAY-2018)	0.0d		08-May-18
[-] Bridge Milestones		518.0d	28-Apr-16	24-Apr-18
A1070	Start Construction Phase 1 Bridge	0.0d	28-Apr-16	
A1160	Completion of Phase 1	0.0d		14-Dec-16
A1130	Completion of Phase 2	0.0d		03-Aug-17
A1140	Completion of Phase 3	0.0d		27-Mar-18
A9640	Completion of Phase 4	0.0d		24-Apr-18

Work Breakdown Structure

The following Work Breakdown Structure (WBS) provided by the Wagman Team integrates all preconstruction activities as well as construction activities for the Route 7 Widening and Bridge Rehabilitation over Dulles Toll

Road & Airport Access Highway project into the schedule. The following is a summary overview of the Phases of Construction succeeded by the complete WBS layout.

Milestones/General Conditions and Preconstruction Activities. These sections contain all non-construction related activities that are pertinent to the project. The following categories represent these sections:

- **Milestones:** Major project dates to achieve project completion goals.
- **General Conditions:** Project management and punch list items required for the project.
- **Design:** Duration set aside for the preliminary, right-of-way/roadway design, and final design of the project. The design will consist of three phases to facilitate VDOT reviews and approvals to advance the start of construction. Whenever possible, permits required for construction will be obtained in advance of final design. The Wagman Team will work with VDOT during the design using over-the-shoulder reviews and provide comment resolution with all submissions to reduce subsequent review cycles. The design category also includes the following:
 - Structures & Bridges: Preliminary and final design of the Route 7 bridge and the Shared-Use Path structures.
 - Scope Validation: Duration for discussion between VDOT and the Wagman Team for validation and approval of project scope.
 - Survey: Timeframe allowing all necessary surveying for the design and right-of-way acquisition process.
 - Geotechnical: All borings and lab work required to prepare the Geotechnical Reports.
 - VPDES/SWPPP Permitting: Timeframe set aside for permitting.
 - Individual Wetlands Permits: Timeframe set aside for permitting.
 - Right-of-Way Acquisition Services: Necessary activities for the procurement of public and private property for right-of-way.
 - Utility Coordination and Relocation: Necessary activities to relocate utilities including the design, procurement, and construction of utilities that may be affected by construction.

Construction Activities. This project has been designed and set up in four phases built around the bridge construction sequencing. Each phases is further subdivided into work areas.

- **Phase I:** Phase I involves the construction of the new bridge structure between the existing bridges as well as the exterior portion of the new bridge structure located on the north side of the existing bridge. This phase is further broken down into two steps:
 - Phase IA is a preparatory step to allow traffic on the Route 7 East Bound Lane (EBL) bridge to be shifted to the right to allow room for Phase I construction. A temporary walkway will be constructed on the outside of the EBL bridge to maintain pedestrian traffic while the existing sidewalk is removed. Traffic will then be shifted to the right utilizing the space where the sidewalk was originally located.
 - Phase IB includes construction of the new bridge substructure and superstructure located between the existing bridges. New utility relocation will be advanced with phased bridge widening for the under-bridge utility relocation. Bridge construction will require multiple crews to maintain the schedule. Abutment and pier construction will occur simultaneously. Pier construction is sequenced to allow traffic shifts on Dulles Toll Road and Dulles Airport Access

Road. Pier 2 construction will be sequenced after Pier 1, and Pier 4 construction will be sequenced after Pier 5. Pier construction will require lane closures in accordance with the RFP.

Preliminary construction activities in Phase I will occur prior to Final Design. These preliminary activities include maintenance of traffic (MOT) as well as support of excavation in preparation for the foundation activities. This will allow new construction to begin immediately upon receiving Approved For Construction (AFC) plans. Roadway work on Route 7 will occur concurrently with bridge construction and will include drainage and pavement required to tie into the Phase I bridge.

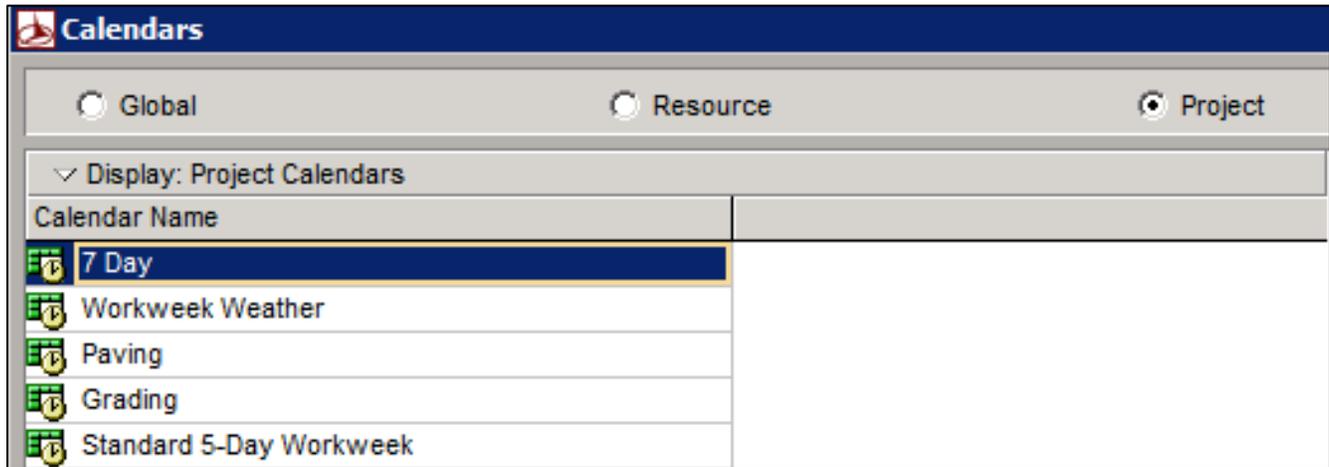
- **Phase II:** Phase II involves new construction within the existing Route 7 West Bound Lane (WBL) footprint. WBL traffic will be shifted onto the new structure completed in Phase I to allow Phase II construction to occur. Phase II bridge construction will include excavation, foundations, substructure, superstructure, and pavement approaches. Roadway work and widening in the existing WBL location will occur simultaneously with the bridge construction. Construction of the NW Quadrant and NE Quadrant Shared-Use Paths are scheduled in Phase II; however, work may commence in Phase I.
- **Phase III:** Phase III involves new construction within the existing Route 7 EBL footprint. Vehicular and pedestrian traffic will be shifted onto the completed structure to allow Phase III activities to occur. Phase III bridge construction will include excavation, foundations, substructure, superstructure, and pavement approaches. Roadway work and widening in the existing EBL location will occur simultaneously with the bridge construction. Construction of the SW Quadrant and SE Quadrant Shared-Use Paths are scheduled in Phase III; however, some work activities may commence in previous phases.
- **Phase IV:** Phase IV involves construction of the median between Route 7 WBL and EBL. Traffic will be shifted while this Phase is underway and then re-shifted to its final location at the end of this Phase.

Project Work Breakdown Structure

		09-Apr-15 13:15
WBS Code	WBS Name	
RL 7 00	RL 7 Widening and Bridge Rehab over DTR- WBS	
RL 7 00.1	Milestones and General Conditions	
RL 7 00.1.1	Milestones	
RL 7 00.1.1.1	Project Milestones	
RL 7 00.1.1.2	Bridge Milestones	
RL 7 00.1.4	General Conditions	
RL 7 00.1.4.1	Online Project	
RL 7 00.2	Precast Production	
RL 7 00.2.1	Design	
RL 7 00.2.1.1	Structures and Bridges	
RL 7 00.2.1.1.1	Route 7 Bridge	
RL 7 00.2.1.1.2	NW Quadrant SUP Underpasses and Headwalls	
RL 7 00.2.1.1.3	NE Quadrant SUP Underpasses, Headwalls and Retaining Walls	
RL 7 00.2.1.1.4	SE Quadrant SUP Pedestrian Bridges, Headwalls and Retaining Walls	
RL 7 00.2.1.2	Scope Validation	
RL 7 00.2.1.3	Survey	
RL 7 00.2.1.4	Geotechnical	
RL 7 00.2.1.4.1	GRR1	
RL 7 00.2.1.4.2	GRR2	
RL 7 00.2.1.4.3	GRR3	
RL 7 00.2.1.4.4	GRR4	
RL 7 00.2.1.4.5	GRR5	
RL 7 00.2.1.5	Preliminary Design	
RL 7 00.2.1.5.1	Roadway, Drainage, Landscaping and Noise	
RL 7 00.2.1.5.2	Traffic	
RL 7 00.2.1.6	ROW Plans	
RL 7 00.2.1.6.1	Roadway, Drainage, Landscaping and Noise	
RL 7 00.2.1.6.2	Traffic	
RL 7 00.2.1.6.3	Lighting	
RL 7 00.2.1.7	Final Design	
RL 7 00.2.1.7.1	Roadway, Drainage, Landscaping and Noise	
RL 7 00.2.1.7.2	Traffic	
RL 7 00.2.1.7.3	Lighting	
RL 7 00.2.1.8	VPD25 SWPPP Permitting	
RL 7 00.2.1.9	Individual Wetlands Permits	
RL 7 00.2.1.10	Right of Way Acquisition Services	
RL 7 00.2.1.11	Utility Coordination and Relocations	
RL 7 00.2.1.12	Construction Engineering Services	
RL 7 00.2.3	Construction Submittals	
RL 7 00.2.4	Acquisition	
RL 7 00.5	Construction	
RL 7 00.5.1	Phase 1	
RL 7 00.5.1.1	Phase 1A	
RL 7 00.5.1.2	Phase 1B	
RL 7 00.5.1.2.1	Bridge	
RL 7 00.5.1.2.1.1	Abutments	
RL 7 00.5.1.2.1.2	Piers	
RL 7 00.5.1.2.1.3	Superstructure	
RL 7 00.5.1.2.2	Roadway RL 7	
RL 7 00.5.1.2.2.1	Sta. 522+00 to 530+99 (West of Bridge)	
RL 7 00.5.1.2.2.2	Sta. 535+38 to 547+21 (East of Bridge)	
RL 7 00.5.1.2.3	Phase 2	
RL 7 00.5.1.2.3.1	Bridge	
RL 7 00.5.1.2.3.1.1	Abutments	
RL 7 00.5.1.2.3.1.2	Piers	
RL 7 00.5.1.2.3.1.3	Superstructure	
RL 7 00.5.1.2.3.2	SUP	
RL 7 00.5.1.2.3.2.1	NW Quadrant	
RL 7 00.5.1.2.3.2.2	NE Quadrant	
RL 7 00.5.1.2.3.3	Roadway RL 7 WGL	
RL 7 00.5.1.2.3.3.1	Sta. 522+00 to 530+99 (West of Bridge)	
RL 7 00.5.1.2.3.3.2	Sta. 535+38 to 547+21 (East of Bridge)	
RL 7 00.5.1.2.3.4	Q/WP#1	
RL 7 00.5.1.2.3.5	Q/WP#2	
RL 7 00.5.1.2.4	Phase 3	
RL 7 00.5.1.2.4.1	Bridge	
RL 7 00.5.1.2.4.1.1	Abutments	
RL 7 00.5.1.2.4.1.2	Piers	
RL 7 00.5.1.2.4.1.3	Superstructure	
RL 7 00.5.1.2.4.2	Roadway RL 7 SGL	
RL 7 00.5.1.2.4.2.1	Sta. 522+00 to 530+99 (West of Bridge)	
RL 7 00.5.1.2.4.2.2	Sta. 535+38 to 547+21 (East of Bridge)	
RL 7 00.5.1.2.4.3	SUP	
RL 7 00.5.1.2.4.3.1	SW Quadrant	
RL 7 00.5.1.2.4.3.2	SE Quadrant	
RL 7 00.5.1.2.4.4	Phase 4	
RL 7 00.5.1.2.4.4.1	Bridge	
RL 7 00.5.1.2.4.4.1.1	Roadway	
RL 7 00.5.1.2.4.4.1.1.1	Sta. 522+00 to 530+99 (West of Bridge)	
RL 7 00.5.1.2.4.4.1.1.2	Sta. 535+38 to 547+21 (East of Bridge)	

Calendars

The Wagman Team has incorporated five calendars into the Project Schedule:



Calendars	
<input type="radio"/> Global <input type="radio"/> Resource <input checked="" type="radio"/> Project	
Display: Project Calendars	
Calendar Name	
7 Day	
Workweek Weather	
Paving	
Grading	
Standard 5-Day Workweek	

- **7 Day:** This calendar holds every day as a working day. This calendar is only attached to non-production activities.
- **Workweek Weather:** This calendar is the base calendar for construction activities. It incorporates a standard workweek, including weather days.
- **Paving:** This calendar is present for applications that are constrained by temperature restrictions by The Department. Additionally, paving operations are further affected by asphalt lay down temperature restrictions and material availability interruptions due to subcontractor plant shut downs. This calendar runs from the end of December to the beginning of March.
- **Grading:** This calendar is present for construction activities related to earthwork. The end of December through the beginning of March are normally difficult months to perform any earthwork related activities. If weather allows, work activities will continue during this calendar period. The schedule will be adjusted as necessary during these months to reflect actual progress.
- **Standard 5-Day Workweek:** This calendar is the base calendar for design activities and incorporates a standard workweek that does not include weather days.

Critical Path

The critical path for the project runs through the bridge design and construction. It begins with the preparation of the Route 7 bridge plans, which determines when new construction can begin. The critical path runs through the bridge substructure and then into the bridge superstructure. The critical path also includes the tie-ins and traffic switches between the different phases of construction. The critical path ends with final road finishes.

Critical Path Breakdown

Rt. 7 Widening and Bridge Rehab over DTR -		Classic WBS Layout		06-Apr-15 13:15	
Activity ID	Activity Name	Planned Duration	Start	Finish	
Rt. 7 Widening and Bridge Rehab over DTR - WBS		749.0d	25-Jun-15	08-May-18	
Milestones and General Conditions		749.0d	25-Jun-15	08-May-18	
Milestones		749.0d	25-Jun-15	08-May-18	
Project Milestones		749.0d	25-Jun-15	08-May-18	
A1000	Notice to Proceed	0.0d	25-Jun-15		
A1010	Construction Start	0.0d	31-Mar-16		
A1030	Final Completion (Contract = 08-MAY-2018)	0.0d		08-May-18	
Bridge Milestones		334.0d	14-Dec-16	27-Mar-18	
A1160	Completion of Phase 1	0.0d		14-Dec-16	
A1130	Completion of Phase 2	0.0d		03-Aug-17	
A1140	Completion of Phase 3	0.0d		27-Mar-18	
General Conditions		10.0d	24-Apr-18	08-May-18	
Entire Project		10.0d	24-Apr-18	08-May-18	
A1250	Final Punchlist/Demobilization	10.0d	24-Apr-18	08-May-18	
Preconstruction		201.0d	25-Jun-15	31-Mar-18	
Design		201.0d	25-Jun-15	31-Mar-16	
Preliminary Design		101.0d	25-Jun-15	12-Nov-15	
Traffic		101.0d	25-Jun-15	12-Nov-15	
D2240	Conduct Traffic (signing, lighting, etc.) Inventory	25.0d	25-Jun-15	30-Jul-15	
D2250	Prepare Preliminary Traffic Signals, Signing, Pavement Marking, & I	25.0d	31-Jul-15	03-Sep-15	
D2260	SFC Preliminary Plans (Wagman)	5.0d	04-Sep-15	11-Sep-15	
D2270	A/C Preliminary Plans (Wagman)	5.0d	14-Sep-15	18-Sep-15	
D2280	SFC Preliminary Plans (VDOT, FHWA, MWAA, Fairfax)	4.0d	21-Sep-15	24-Sep-15	
D2290	R/C Preliminary Plans (VDOT, FHWA, MWAA, Fairfax)	15.0d	25-Sep-15	15-Oct-15	
D2300	A/C Preliminary Plans	5.0d	16-Oct-15	22-Oct-15	
D2310	Clear Preliminary Design Comments (VDOT, FHWA, MWAA, Fairfax)	15.0d	23-Oct-15	12-Nov-15	
F/R/O/W Plans		100.0d	13-Nov-15	31-Mar-16	
Traffic		100.0d	13-Nov-15	31-Mar-16	
D2400	Prepare Intermediate Traffic Signals, Signing, Pavement Marking, &	43.0d	13-Nov-15	15-Jan-16	
D2410	SFC Intermediate Plans (Wagman)	7.0d	18-Jan-16	26-Jan-16	
D2420	A/C Intermediate Plans (Wagman)	5.0d	27-Jan-16	02-Feb-16	
D2430	SFC Intermediate Plans (VDOT, FHWA, MWAA, Fairfax)	3.0d	03-Feb-16	05-Feb-16	
D2440	R/C Intermediate Plans (VDOT, FHWA, MWAA, Fairfax)	15.0d	08-Feb-16	26-Feb-16	
A9180	A/C Intermediate Plans	7.0d	29-Feb-16	08-Mar-16	
D2460	R/A Intermediate Plans (VDOT, FHWA, MWAA, Fairfax)	16.0d	09-Mar-16	30-Mar-16	
D2470	AFC MOT Plans and Details	1.0d	31-Mar-16	31-Mar-16	
Construction		538.0d	31-Mar-16	24-Apr-18	
Phase I		184.0d	31-Mar-16	14-Dec-16	
A1270	Project Signage	10.0d	31-Mar-16	14-Apr-16	
Phase 1A		17.0d	14-Apr-16	09-May-18	
A8120	Install Ped. Access on EB Bridge	10.0d	14-Apr-16	28-Apr-16	
A8130	Remove Exist. Sidewalk	3.0d	28-Apr-16	03-May-16	
A8140	Stripe/Shift Traffic to Phase 1B	4.0d	04-May-16	09-May-16	
Phase 1B		157.0d	09-May-16	14-Dec-18	
Bridge		148.0d	09-May-16	29-Nov-16	
A8150	Install Barrier	8.0d	09-May-16	19-May-16	
A8160	Rem. Overhang on EB Bridge	7.0d	19-May-16	31-May-16	
A8170	Rem. Overhang on WB Bridge	7.0d	31-May-16	09-Jun-16	
Abuments		67.0d	09-Jun-16	12-Sep-16	



Rt. 7 Widening and Bridge Rehab over DTR -		Classic WBS Layout		06-Apr-15 13:15	
Activity ID	Activity Name	Planned Duration	Start	Finish	
A6180	SOE Abut. A	7.0d	09-Jun-16	20-Jun-16	
A6590	SOE Abut. B Outside	5.0d	20-Jun-16	27-Jun-16	
A6600	Drive Pile Abut. B Outside	3.0d	27-Jun-16	30-Jun-16	
A6250	SOE Abut. B	7.0d	30-Jun-16	12-Jul-16	
A6260	Rem. Portion of Abut. B	4.0d	12-Jul-16	18-Jul-16	
A6270	Drive Pile Abut. B	4.0d	18-Jul-16	22-Jul-16	
A6280	Retaining Wall Structure Abut. B	20.0d	22-Jul-16	19-Aug-16	
A6290	FRPS Abut. B Footing	5.0d	19-Aug-16	26-Aug-16	
A6300	FRPS Abut. B Seat	5.0d	26-Aug-16	02-Sep-16	
A6310	Coping Abut. B	5.0d	02-Sep-16	12-Sep-16	
Superstructure		58.0d	12-Sep-16	29-Nov-16	
A6470	Erect Girders	15.0d	12-Sep-16	03-Oct-16	
A6480	Install Overhangs	12.0d	22-Sep-16	11-Oct-16	
A6490	SIP Deck Forms	6.0d	11-Oct-16	19-Oct-16	
A6500	Deck Rebar	7.0d	19-Oct-16	28-Oct-16	
A6510	Pour Deck	6.0d	28-Oct-16	07-Nov-16	
A6520	Deck Curing	5.0d	07-Nov-16	14-Nov-16	
A9150	Strip Overhangs	7.0d	14-Nov-16	23-Nov-16	
A6530	Deck Grooving	2.0d	23-Nov-16	29-Nov-16	
Roadway Rt. 7		11.0d	29-Nov-16	14-Dec-16	
A9120	Bridge Tie-Ins	8.0d	29-Nov-16	09-Dec-16	
A9000	Stripe/Switch Traffic to Phase 2	3.0d	12-Dec-16	14-Dec-16	
Phase 2		166.0d	14-Dec-16	03-Aug-17	
Bridges		155.0d	14-Dec-16	19-Jul-17	
A1440	Remove Exist. Superstr.	20.0d	14-Dec-16	16-Jan-17	
Abutments		58.0d	16-Jan-17	06-Apr-17	
A6550	SOE Abut. A	6.0d	16-Jan-17	24-Jan-17	
A6560	SOE Abut. B	6.0d	24-Jan-17	01-Feb-17	
A6580	Rem. Portion of Abut. B	4.0d	01-Feb-17	07-Feb-17	
A6600	Drive Pile Abut. B	5.0d	07-Feb-17	14-Feb-17	
A6620	Retaining Wall Structure Abut. B	20.0d	14-Feb-17	15-Mar-17	
A6640	FRPS Abut. B Footing	5.0d	15-Mar-17	22-Mar-17	
A6660	FRPS Abut. B Seat	6.0d	22-Mar-17	30-Mar-17	
A6680	Coping Abut. B	5.0d	30-Mar-17	06-Apr-17	
Superstructure		74.0d	06-Apr-17	19-Jul-17	
A6840	Erect Girders	15.0d	06-Apr-17	27-Apr-17	
A6850	Install Overhangs	12.0d	18-Apr-17	04-May-17	
A6860	SIP Deck Forms	6.0d	04-May-17	12-May-17	
A6870	Deck Rebar	6.0d	12-May-17	22-May-17	
A6880	Pour Deck	6.0d	22-May-17	31-May-17	
A6890	Deck Curing	5.0d	31-May-17	07-Jun-17	
A6900	FRPS Parapet	7.0d	07-Jun-17	16-Jun-17	
A6910	Install Railing	5.0d	16-Jun-17	23-Jun-17	
A6920	Install Fence	5.0d	23-Jun-17	30-Jun-17	
A9160	Strip Overhangs	10.0d	30-Jun-17	17-Jul-17	
A6930	Groove Deck	2.0d	17-Jul-17	19-Jul-17	
Roadway Rt. 7 WBL		11.0d	19-Jul-17	03-Aug-17	
A9130	Bridge Tie-Ins	8.0d	19-Jul-17	31-Jul-17	



Rt. 7 Widening and Bridge Rehab over DTR -		Classic WBS Layout		06-Apr-15 13:15	
Activity ID	Activity Name	Planned Duration	Start	Finish	
A6010	Stripe/Switch Traffic to Phase 3	3.0d	01-Aug-17	03-Aug-17	
Phase 3		168.0d	03-Aug-17	27-Mar-18	
Bridge		159.0d	03-Aug-17	14-Mar-18	
A6040	Remove Exist. Superstr.	20.0d	03-Aug-17	31-Aug-17	
Abutments		63.0d	31-Aug-17	28-Nov-17	
A6950	SOE Abut. A	5.0d	31-Aug-17	08-Sep-17	
A6960	SOE Abut. B	5.0d	08-Sep-17	15-Sep-17	
A6980	Rem. Portion of Abut. B	5.0d	15-Sep-17	22-Sep-17	
A7000	Drive Pile Abut. B	5.0d	22-Sep-17	29-Sep-17	
A7020	Retaining Wall Structure Abut. B	20.0d	29-Sep-17	30-Oct-17	
A7040	FRPS Abut. B Footing	6.0d	30-Oct-17	07-Nov-17	
A7060	FRPS Abut. B Seat	6.0d	07-Nov-17	15-Nov-17	
A7080	Coping Abut. B	7.0d	15-Nov-17	28-Nov-17	
Superstructure		76.0d	28-Nov-17	14-Mar-18	
A7240	Erect Girders	15.0d	28-Nov-17	19-Dec-17	
A7250	Install Overhangs	12.0d	08-Dec-17	28-Dec-17	
A7260	SIP Deck Forms	6.0d	28-Dec-17	08-Jan-18	
A7270	Deck Rebar	6.0d	08-Jan-18	17-Jan-18	
A7280	Pour Deck	6.0d	17-Jan-18	25-Jan-18	
A7290	Deck Curing	5.0d	25-Jan-18	01-Feb-18	
A7300	FRPS Parapet	6.0d	01-Feb-18	09-Feb-18	
A7310	Install Railing	5.0d	09-Feb-18	16-Feb-18	
A7320	Install Fence	5.0d	16-Feb-18	26-Feb-18	
A9170	Strip Overhangs	10.0d	26-Feb-18	12-Mar-18	
A7330	Groove Deck	2.0d	12-Mar-18	14-Mar-18	
Roadway Rt. 7 EBL		8.0d	16-Mar-18	27-Mar-18	
A9140	Bridge Tie-Ins	5.0d	16-Mar-18	22-Mar-18	
A9030	Stripe/Switch Traffic to Phase 4	3.0d	23-Mar-18	27-Mar-18	
Phase 4		20.0d	27-Mar-18	24-Apr-18	
Bridge		7.0d	27-Mar-18	05-Apr-18	
A8710	FPSC Median	7.0d	27-Mar-18	05-Apr-18	
Roadway		20.0d	27-Mar-18	24-Apr-18	
A9040	Mill/Overlay	4.0d	06-Apr-18	11-Apr-18	
A9050	Final Paving	4.0d	12-Apr-18	17-Apr-18	
A9060	Final Striping	5.0d	18-Apr-18	24-Apr-18	
Sta. 522+00 to 530+99 (West of Bridge)		7.0d	27-Mar-18	05-Apr-18	
A8720	FPSC MS-1A	7.0d	27-Mar-18	05-Apr-18	
Sta. 535+36 to 547+21 (East of Bridge)		7.0d	27-Mar-18	05-Apr-18	
A8730	FPSC MS-2	7.0d	27-Mar-18	05-Apr-18	



Design

The Wagman Team will advance the design from the current RFP documents and incorporate new design elements into final design and construction documents. Design activities will include surveying, roadway design, bridge design, traffic control devices, maintenance of traffic plans, signs, guardrail, pavement markings, drainage design, design of stormwater management facilities, geotechnical investigation including borings and analysis, materials analysis, hydraulic design and pavement design. The project will be delivered by completing three phases of design: preliminary design, right-of-way design, and final design (labeled as Stage 1 and Stage 2 for roadway design, and Final Stage II for structures design). Design-related activities to be performed during each phase are outlined below.

Preliminary design activities will focus on expanding the RFP documents and preparing a set of preliminary plans and reports for submission to VDOT for review and approval. The Wagman Team will perform numerous independent studies of the information contained in the RFP documents to confirm that the information provided to date is correct and suitable for use in designing the project. These additional studies will include performing supplemental field surveying to confirm horizontal and vertical control of key project features verifying type and location of existing subsurface utilities; performing legal research to confirm existing right-of-way and property limits; and performing a thorough geotechnical field investigation to confirm geotechnical conditions for the bridge foundation and roadway design. The findings of these studies will be summarized in a series of reports and, if discrepancies occur between the information in the RFP documents and the Wagman Team studies, these results will be presented to VDOT for review and evaluation as outlined in the Scope Validation process for the project. Preliminary roadway plans will be developed including performing geometric design; preparing cross sections and defining limits of construction; completing stormwater management and erosion and sediment control design; preparing plans for traffic control devices as well as a Transportation Management Plan; and completing the preliminary bridge plans working closely with the geotechnical engineers. Required right-of-way limits will be evaluated and depicted on the plans, and preliminary utility relocation plans will be prepared.

Right-of-way/roadway design submittal will occur after receiving preliminary plan approval from VDOT. The right-of-way, environmental coordination and approval, and utility relocation plan activities will be separated and developed for individual submissions to VDOT and other regulatory agencies for review and approval. The preliminary bridge and roadway plans will be fully detailed and ready for construction.

Final design submittal will occur after receiving right-of-way/roadway design plan approval from VDOT. The Wagman Team will submit the final design plans and reports to VDOT for review and approval.

Environmental Coordination and Approvals

Preliminary environmental activities will begin shortly after receiving Notice to Proceed and will include a thorough environmental evaluation and confirmation of the information provided in the RFP documents. The Wagman Team will prepare a comprehensive environmental management plan that includes a matrix of environmental commitments and compliance requirements; identifies milestone dates and integrates those into the project schedule; identifies the responsible party; and summarizes requirements.

Final environmental activities will begin immediately after receiving preliminary plan approval from VDOT. At this point in the design, the footprint for the project will be firmly established and the Wagman Team will identify the final environmental impacts required to construct the project in its entirety. The Wagman Team will strive to avoid and minimize environmental impacts during design development and construction. A Stormwater Pollution Prevention Plan (SWPPP) will be developed and the registration statement for the Virginia Stormwater Management Permit will be submitted immediately following the SWPPP development.

Right-of-Way

The Wagman Team will evaluate the proposed right-of-way, permanent easements, and temporary easements as shown on the plans. If changes are required, either due to a change in the required right-of-way or a change based on the results of legal research, the Team will prepare updated preliminary right-of-way plans and a right-of-way data sheet and will submit to VDOT for review and approval. Preliminary right-of-way activities will begin after receiving Notice to Proceed. The Wagman Team will begin performing the legal research for the identified parcels on the preliminary plans at the same time that our survey crew is validating the survey information provided in the RFP package.

Schedule & Project Management

The schedule is the most important tool in the construction management process and is an efficient method to communicate the intended sequence and progress of the project to the construction team as well as the project stakeholders. The schedule is an extremely useful and productive planning tool. The Wagman Team takes pride in our detailed advance planning for safe and efficient execution of the work. Our Construction Managers, Superintendents, Safety Professionals, and Craft Supervisors use this critical tool as the first step in developing Activity Hazard Analyses and Activity Work Plans. In addition to early planning, the schedule is used to monitor the project's progress and help identify potential deficiencies and problem areas before they develop into a critical impact.

The project management team will continually review and monitor the schedule and use the information gathered to develop mitigation strategies for any activities that are identified as potential impacts. This proactive approach will ensure that the project continues to move forward and that any potential delays are addressed immediately. A variety of different tools will be utilized to assist with this process, including but not limited to the following:

- Weekly schedule and task force meetings between the engineering and construction team members during the design phase
- Weekly construction scheduling meetings throughout the duration of the construction process with the construction team (including management)
- Monthly progress meetings to include all project stakeholders, project team members, and subcontractors
- Three-week look ahead schedules
- RFI logs
- Submittal logs
- Work plans
- Subcontract/purchase order logs
- Shop drawing tracking logs
- Weekly manpower and equipment reviews.

All of the above referenced tools will be utilized simultaneously to provide a current and realistic picture of the progress and status at any given time. Information will be presented at meetings to all who are involved for the opportunity to discuss and address any concerns in front of all that are affected. This keeps the line of communication open and allows resolutions and recovery strategies to be developed at an early stage, therefore preventing any further conflict.

Schedule Recovery

Unexpected issues and unforeseen conditions are a possibility during the construction process. The Wagman Team includes many experienced and well-respected members in the DB field with the ability to recognize and react to any issues. The Wagman Team will aggressively manage the project and, if needed, mitigate any issues that affect the construction schedule. If necessary, a schedule recovery strategy will be developed, immediately implemented, and closely monitored until the schedule is recovered.

Subcontractor & Material Supplier Scheduling

Subcontractors & Material Suppliers are a critical part of the project schedule. The Wagman Team will closely evaluate each subcontractor and supplier based on quality, performance, and reputation. Beginning with the initial subcontract paperwork, each subcontractor will be intimately involved with every aspect of the project schedule, and their input will be vital. Suppliers will go through a similar process. This includes progress meetings, weekly look-ahead schedules, material submittals, and recovery strategies if needed. Accountability is the key to effective subcontractor and supplier management, and it will be perfectly clear that subcontractors and suppliers will be held accountable for all aspects of their work from quality to schedule.

4.2.4 Proposal Schedule in electronic format (CD-ROM). In addition to the hard copy located in Volume II, the Wagman Team has provided a copy of the Proposal Schedule and narrative in PDF format as well as a back-up copy of the Proposal Schedule's source document in XER format on a CD-ROM, which is located in the sleeve below.

