

Dominion Boulevard Improvements Report
For
February - 2017

Posted 03-24-17



Dominion Boulevard Improvements

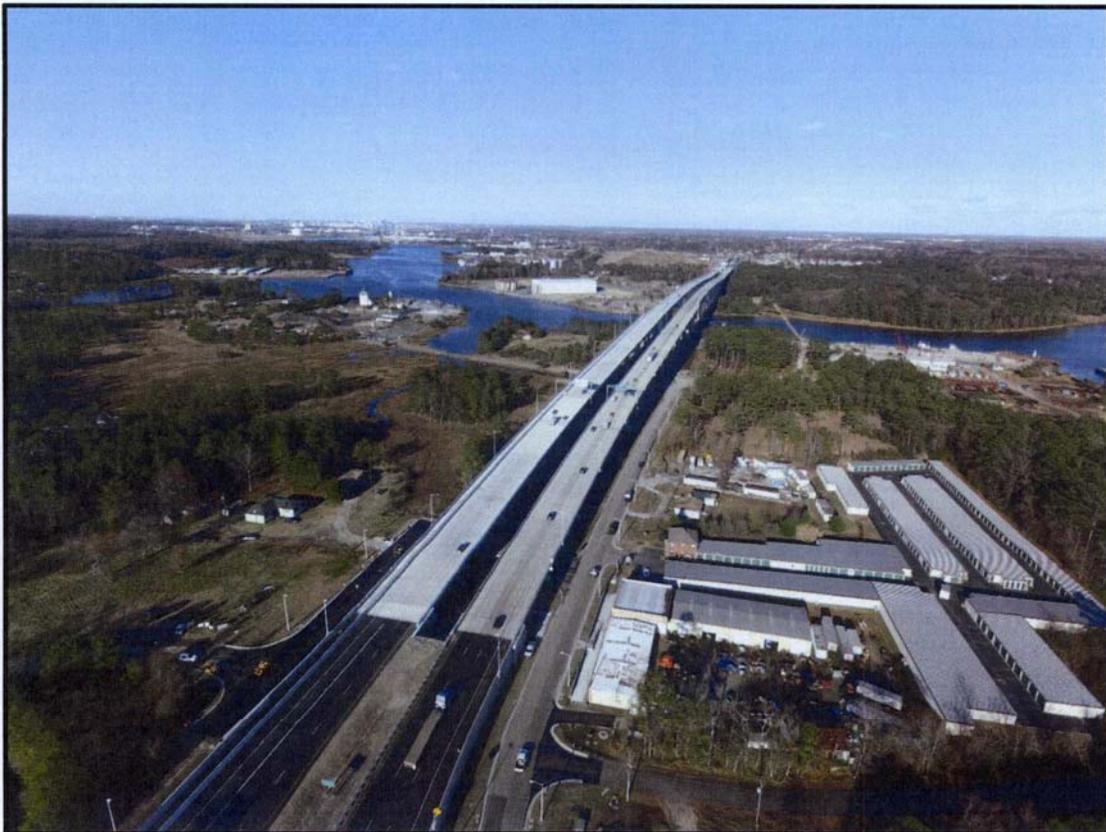
AC # 01-6004-05

UPC: 56187

VDOT Project No: (FO) 6017-131-109, PE-101, RW-201,
C-501, B608, B609, B610, B611, B614, B615, B616, D608,
&

C-502, B612, B613

FHWA No.: HPP-0017-5(023)



Elizabeth River bridges

Status Report as of February 25, 2017

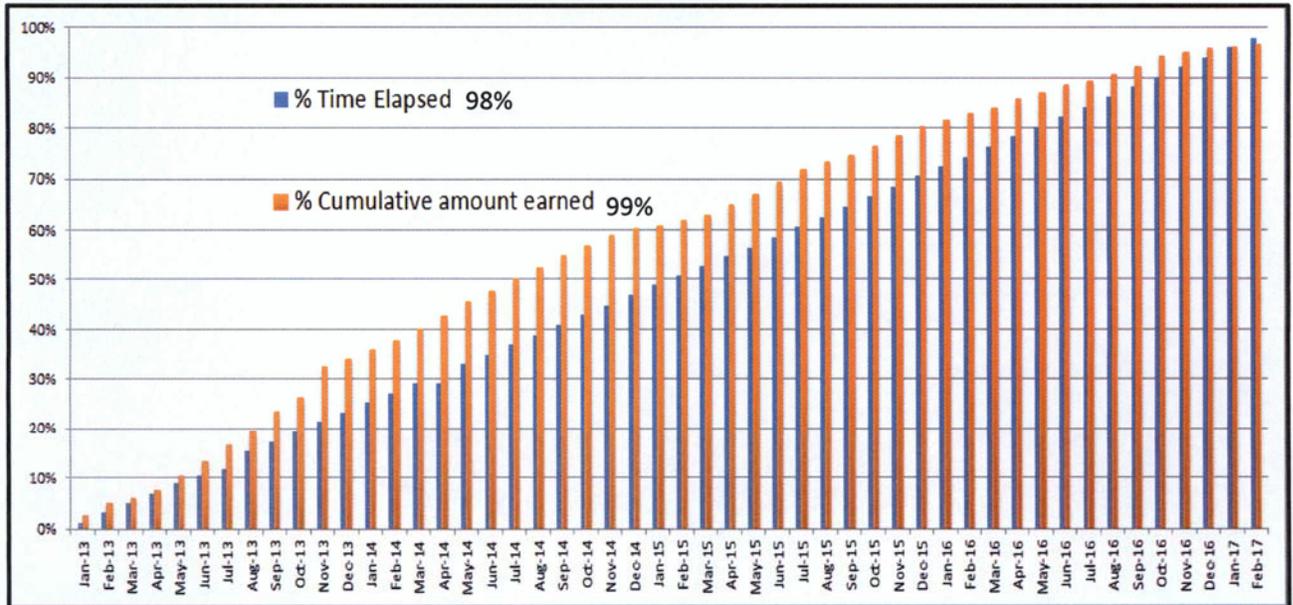
TABLE OF CONTENTS

1. PROJECT STATUS (Schedule and Budget)	1
2. SIGNIFICANT ACCOMPLISHMENTS THIS MONTH (February 1–28, 2017)	4
3. PROJECT KEY OPERATION STATUS as of 02/28/2017.....	5
5. CHANGE ORDERS AND QUANTITY OVERRUNS.....	6
6. RFI AND SUBMITTAL STATUS.....	8
7. SCHEDULE MILESTONES	9
8. ATTACHMENT: Progress Photographs	



1. PROJECT STATUS (Schedule and Budget)

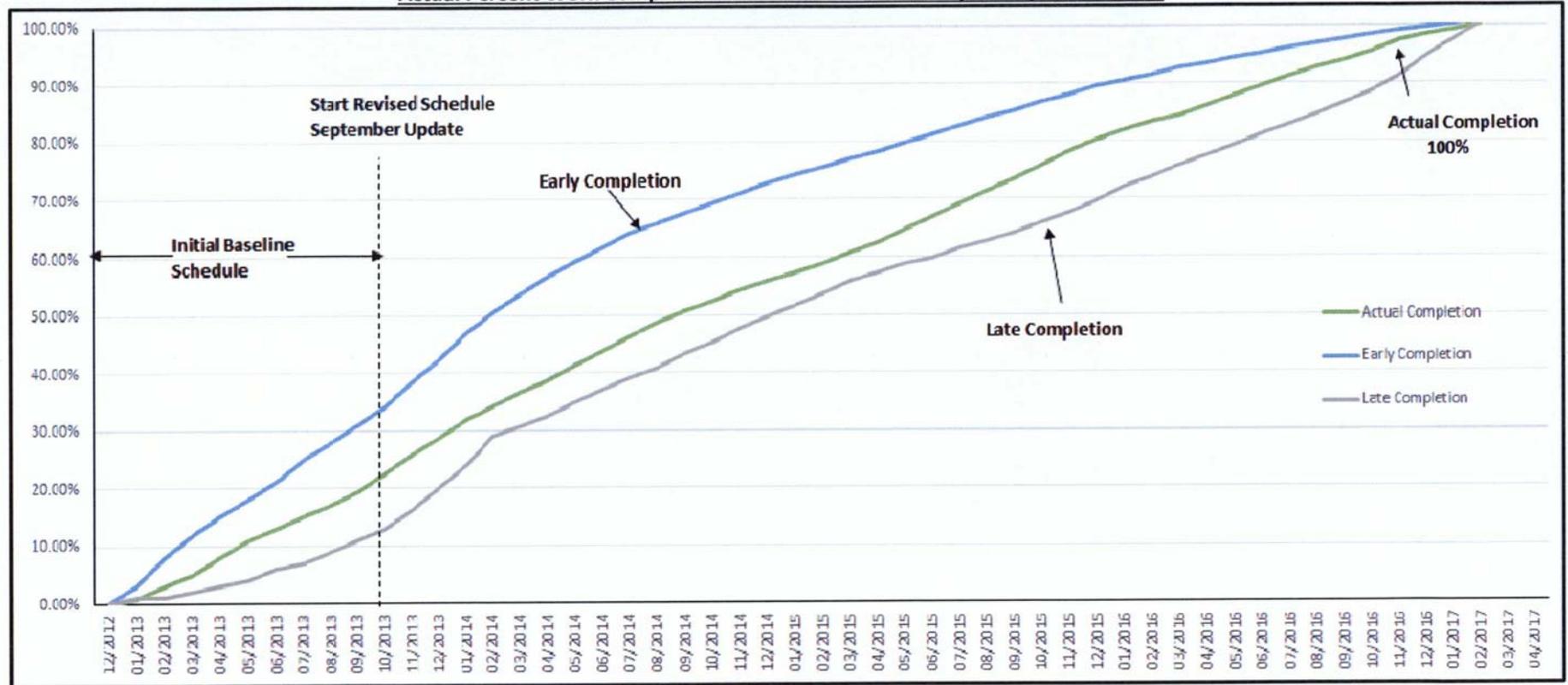
Schedule		Budget	
Contract Type	Fixed Date	Original Contract Value	\$188,070,320
Original Contract Completion Date	4/1/2017	Exposure (Pending Change Orders)	\$336,415
Current Contract Completion Date	6/15/2017	Expenditures (Approved Change Orders)	\$7,299,629
Time Extension (Days)	75	Expenditures (Net Quantity Overruns)	\$7,758,350
Current Contract Duration (Days)	1,621		
Notice to Proceed	01/07/2013	Current Estimated Contract Value	\$203,464,714
First Day of Work	01/07/2013	Amount Paid Prior Periods	\$202,061,080
Contract Days Elapsed (to 2/24/2017)	1,510	Amount Paid this Period	\$922,699
Contract Days Remaining	111	Cumulative Amount Paid	\$202,983,779
Actual Completion Date	02/24/2017	Value Stock Piled Materials	\$0
		Total Contract Cost to Date	\$202,983,779
% Contract Work Complete	100%		
% Contract Days Elapsed	93%	% Current Estimated Contract Value Paid (Not Including Stored Materials)	99%
% Contract Time Remaining	7%	% Current Estimated Contract Value Remaining	1%



Cumulative amount paid vs Time Elapsed (NTP to February 25, 2017)

SCHEDULE

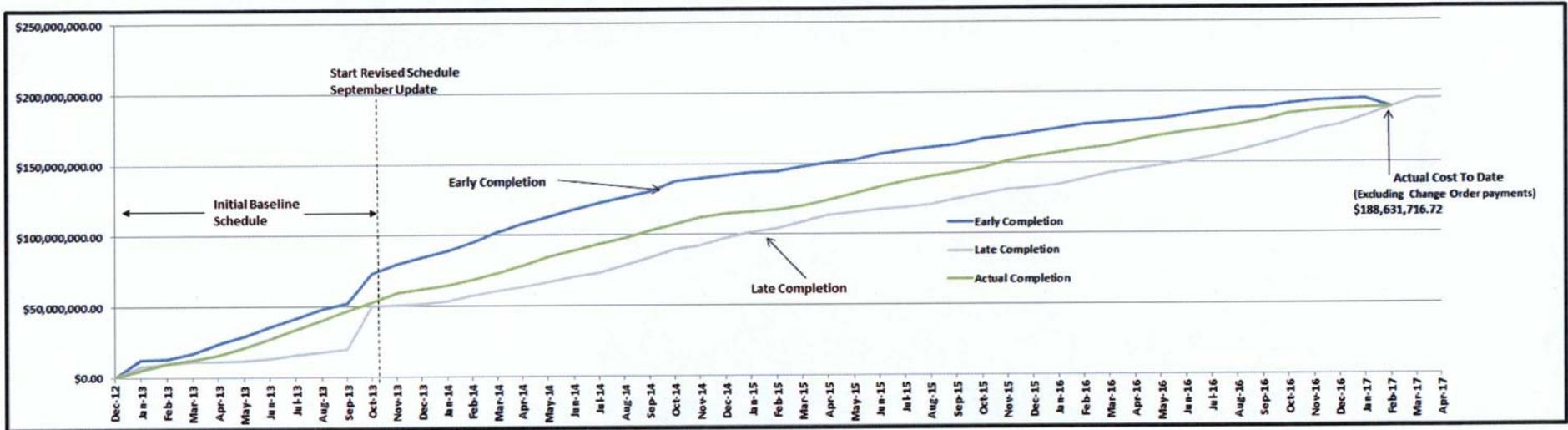
Actual Percent Work Completed vs. Planned Percent Completed (All Activities)



As of February 25, 2017

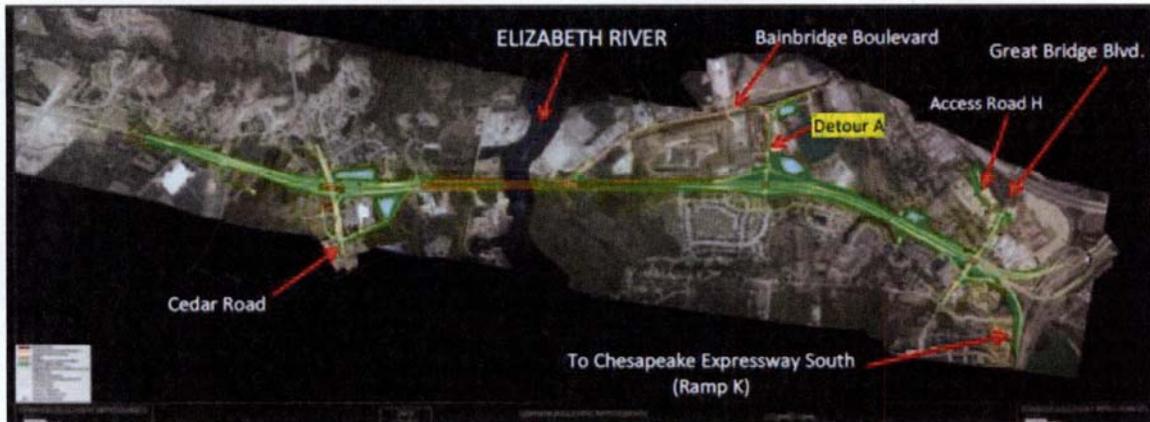
BUDGET

Actual Contract Cost to Date vs. Planned Contract Cost to Date



As of February 25, 2017

2. SIGNIFICANT ACCOMPLISHMENTS THIS MONTH (February 1–February 25, 2017)



Bridge Descriptions	
	B612 - Dominion Blvd SB over Cedar Road/Moses Grandy Trail (Completed)
B608 - Dominion Blvd SB over Elizabeth River (Completed)	B613 - Dominion Blvd NB over Cedar Road/Moses Grandy (Completed)
B609 - Dominion Blvd NB over Elizabeth River (Completed)	B614 - Dominion Blvd SB over Great Bridge Blvd (Completed)
B610 - Dominion Blvd SB over relocated Bainbridge Blvd. (Completed)	B615 - Dominion Blvd NB over Great Bridge Blvd (Completed)
B611 - Dominion Blvd NB over Dominion Lakes Blvd/Relocated Bainbridge Blvd. (Completed)	B616 - Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp (Completed)

Prime Contractor

DBC Joint Venture: (McLean Contracting Co, RR Dawson Bridge Co, Bryant Contracting Inc. and EV Williams Inc.)

Bridge Construction:

B609 (Dominion Blvd NB over Elizabeth River) – 100% Complete:

- Opened to traffic 12/15/2014

B608 (Dominion Blvd SB over Elizabeth River) – 100% Complete:

- Opened to traffic 10/29/16

B616 (Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp) 100% Complete:

- Substantially completed Bridge B616 9/29/2014

B610 and B611 (Dominion Blvd SB and NB over relocated Bainbridge Blvd) – 100% Complete:

- Opened B611 to traffic 12/15/2014
- Opened B610 to traffic 6/20/2016

Dominion Boulevard Improvement – City of Chesapeake

B612 and B613 (Dominion Blvd SB and NB over Cedar Road/Moses Grandy) - 100% Complete:

- Opened B612 to traffic 10/29/16 (final configuration)

B614 and B615 (Dominion Blvd SB and NB over Great Bridge Blvd.) - 100% Complete

- Opened B614 to traffic 10/23/16
- Opened B615 to traffic 10/26/16

Roadway Construction (DBC, Inc.):

- Cleanup debris and completed punchlist items

Major Subcontractors

- **Virginia Sign and Lighting**
 - Completed final testing of signalization and backup systems
- **Kapsch**
 - Activated tolling system February 9, 2017

3. PROJECT KEY OPERATION STATUS as of 02/28/2017

Key Operations Completed	Month Completed
Elizabeth River Bridge NB (Bent Caps)	Aug-13
Elizabeth River Bridge NB (Piles)	Sep-13
Open Detour A	Oct-13
Elizabeth River Bridge NB (River Footings)	Nov-13
Opened relocated Dom Blvd. at Cedar Road	Jan-14
Partially opened Access A and Access AA	Mar-14
Opened Blake Street	Apr-14
Completed Setting Navigation Span Beams	May-14
Opened permanent intersection for Access A/AA at Cedar Road.	Jun-14
Completed Stage 1 Post-Tensioning for B609 spliced Girders	Jul-14
Completed Dominion Lakes Blvd. entrance	Aug-14
Completed Driving Piles at B610 and B611	Aug-14
Completed Soil Nail Wall construction	Sep-14
Completed B609 Spliced Girder Post Tensioning	Oct-14
Completed Bridge decks for B609	Nov-14
Opened B609 and B611 on Dec. 15th	Dec-14
Completed all Test Piles	Mar-15
Completed all Ground Improvement Piles	Jun-15
Completed installing wick drains	Jun-15
Completed all pile driving operations	Sep-15
Completed placing all concrete bridge footings	Nov-15
Opened B613 on Feb. 3 rd	Feb-16
Completed all settlement monitoring	Mar-16
Completed Factory Acceptance Testing for tolling system	Apr-16
Opened B610 for traffic	Jun-16
Opened B608, B614, B615, and B612 to traffic	Oct-16
Opened all new permanent travel lanes	Dec -16

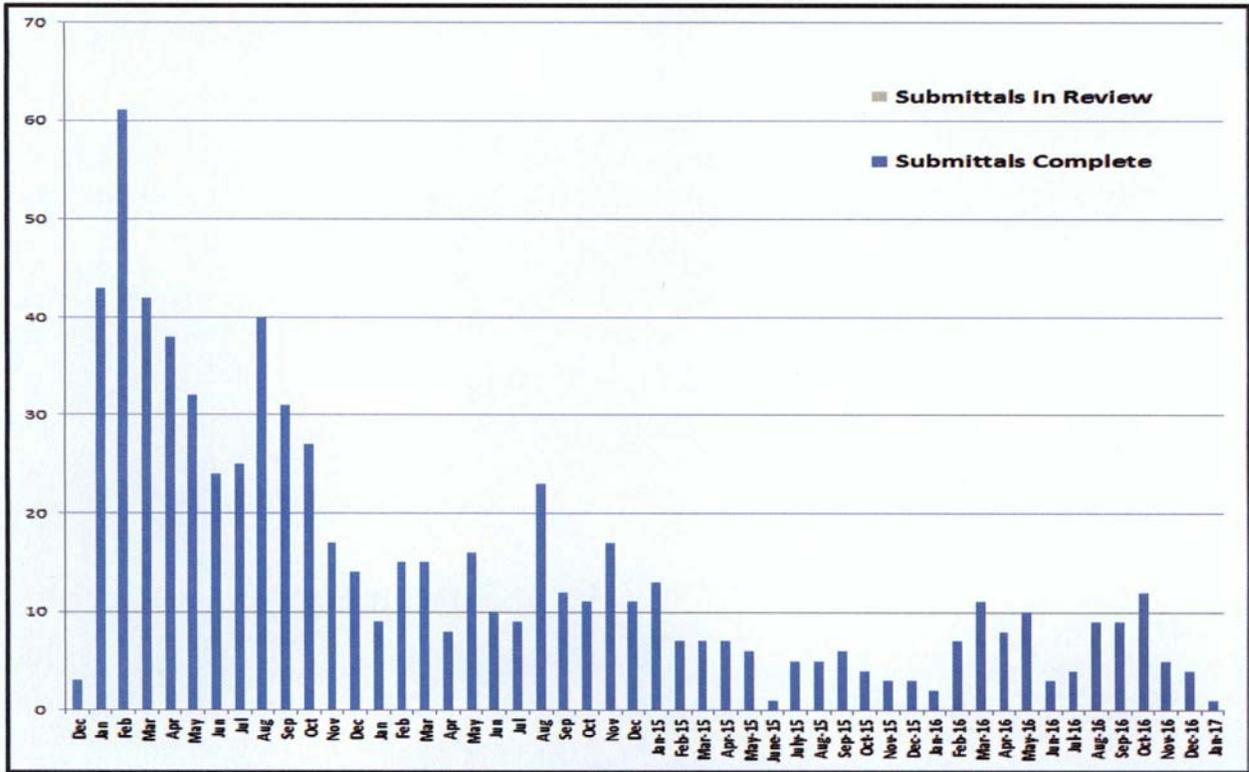
4. CHANGE ORDERS AND QUANTITY OVERRUNS

Change Order Number	Requested Change Orders	
	Scope	Exposure from Change Orders (\$)
01	Add Flaggers & Portable Changeable Message Signs	\$91,071.25
02	Replace Porous fill with strip drains at MSE Walls	(\$1,444,802.94)
03	Raise B608 & B609 Bridge Footings	(\$810,117.50)
04	Add'l electric service per plan Rev. 1/18/2013	\$139,651.02
05	Add #57 stone to the contract	\$851,600.00
06	Add Trainees to the contract	\$45,000.00
07	2" HDPE Conduit - Bored	\$25,747.68
08	8" Sanitary Force Main Under Wetlands	\$22,601.25
09	B609 Pier 14 Pile Modif.	\$831,940.75
10	Temp. Signal at Bainbridge and Sta. 55+50	\$73,977.55
11	Type D Removable Pavement Markings for Concrete	\$47,400.00
12	Removal of Concrete Barriers (\$12.50/LF)	\$6,000.00
13	Ramp K/MSE Wall 22 Wick Drains	\$305,633.61
14	Demolition/Removal of Existing Sound Wall	\$72,643.23
15	Disposal of Unsuitable Material (base on 140,000 cy)	\$6,025,600.00
16	MSE Walls at Bridge Abutments B610-B615	(\$239,207.30)
17	Delete Aesthetic Treatment	(\$1,838,302.58)
18	4 inch water meters at Great Bridge & Cedar	\$10,772.06
19	Relocation of the Pressure Sensor Telemetry Cabinet; 8/29/2013 Questions to DBC	\$23,457.35
20	Water Meter Vault at DR-1J50-1	\$11,157.98
21	Anti-Graffiti Paint - 8/26 Rec'd DBC's Revised Scope	\$219,823.36
22	16 inch Waterline Repairs at Bainbridge	\$18,116.70
23	Temp. Street lights at Cedar/Dominion Blvd	16,717.73
24	Soil Nail Wall	\$247,184.50
25	12" x 12" x 8" Junction Boxes	\$36,026.55
26	Installation of Leak Detectors Water/Sewer Casings	\$47,359.48
27	New High Mast Light Assembly	\$60,454.18
28	Grass Cutting	\$152,556.48
29	Missing Pay Items: RW2, RW3, Impact Attenuators	\$361,862.19
30	Replace MC-3B Asphalt Curb with Conc. Curb (VEP 07)	-\$39,402.03
31	Remove Existing Sign Structures	\$6,192.66
32	GPS As-Builts of Utilities	\$84,527.20
33	Plan Revision No. 14 Additional Work	\$476,877.44
34	Soil Nail Walls - Additional Work	\$141,766.40
35	Replace existing junction boxes	\$15,192.04
36	Wireless System Coaxial Cable for Traffic Signals	\$22,085.04
37	MSE Wall Redesign	\$318,630.21
38	Conflict Manhole at 4" Sanitary Force Main	\$8,095.62
39	CCW Type D Lighting Control Cabinets	\$125,028.30
40	Bored conduit for Utility Relocations at B614/B615	\$99,564.40
41	Obstruction at 18" Jack and Bore	\$24,795.13
42	VDOT VMS Sign Removal/Reinstall VMS Conductor Cable (combined with CO 42 VMS Removal)	\$66,935.33
43	VEP No. 9 MSE Wall i.l.o. RW-3 Wall (Credit)	(\$35,987.69)
44	Temporary Drainage at Detour A	\$17,634.06
45	Additional Restrained Waterline	\$10,793.22
46	Obstructions between Str. 23N-1 and 23N-2	\$19,240.31
47	Additional Work Associated with Revision 10	\$36,767.40
48	24" Waterline tie-in delays at Cedar Road Additional Cost 16" Waterline Tie-in at River (Combined with CO 48)	\$16,731.79
49	Waterline Joint Restraint at Great Bridge Blvd.	\$4,701.38
50	Elec. power for Ped. Tunnel Lighting and High Mast Lighting	\$52,346.60
51	Plan Revision No 12 Add'l Cost Savings Ref. VEP 6	(\$34,893.45)
52	Plan Revision Nos. 19,19A, and 21	\$7,344.33
53	Plan Revision No. 12 Add'l Wick Drains, Mob, Settlement Plates	\$10,463.63
54	B609 Pier No. 3-8 Rebar Changes to Caps	\$21,025.08
55	18 inch Storm Pipe MSE Wall 6 Str. 10-1 to 10-5	\$23,774.98
56	Payment for Pile Cutoffs	\$20,143.81
57	Plan Rev. Nos. 28 and 29 Parcel Revisions	\$15,538.71
58	VPDES Permit Re-application and Maintenance Fee	\$16,054.34
59	Structure 32-10 Add.	\$8,803.44
60	DMS Post Structure Replacement VMS Meter Pedestal Ref. Plan Rev. No. 11 (Combined with CO 60)	\$45,846.75
61	Plan Rev. 26 Entrance 9N-2; Reloc Sanitary Force Main Ramp CA	\$70,303.02
62	Demo of Parxcel 011 Structures	\$21,694.26
63	Changes to Dominion Lakes Signage	\$34,784.15
64	Installation of Verizon Vaults and Pedestals	\$61,619.56
65	Plan Rev. No. 8 8" PVC Sewer	\$11,775.66
66	Removal of Underground Water Storage Tanks	\$14,410.47
67	Connection of Existing Sewer Laterals to New, Relocated Sewer Main	\$7,534.44
68	24" x 6" Reducer for Additional Fire Hydrant	\$3,920.93
69	Remove/Salvage Existing Signal Equipment	\$32,350.65
70	Plan Revision No. 15 Additional Work	\$22,694.43
71	Balance of VEP No. 1	-\$105,234.50
72	Cedar Rd. Underbridge Traffic Signal Conduits	\$65,928.67
73	Additional Asbestor Bridge Demo	\$8,457.11
74	B612 Pier 1 Additional Pile Cost	\$51,460.12
75	Remove Existing Sign Structures D704 & D14	\$8,214.60
76	Plan Revision No. 13 Additional Work	\$22,798.44
77	Plantings along Higginson-Buchannon Property and Dom. Lakes Entrance; Add'l Tolling Equipment; Modify Pedestrian Push Buttons	\$284,790.86
TOTAL		\$936,415.30
		\$7,299,628.58

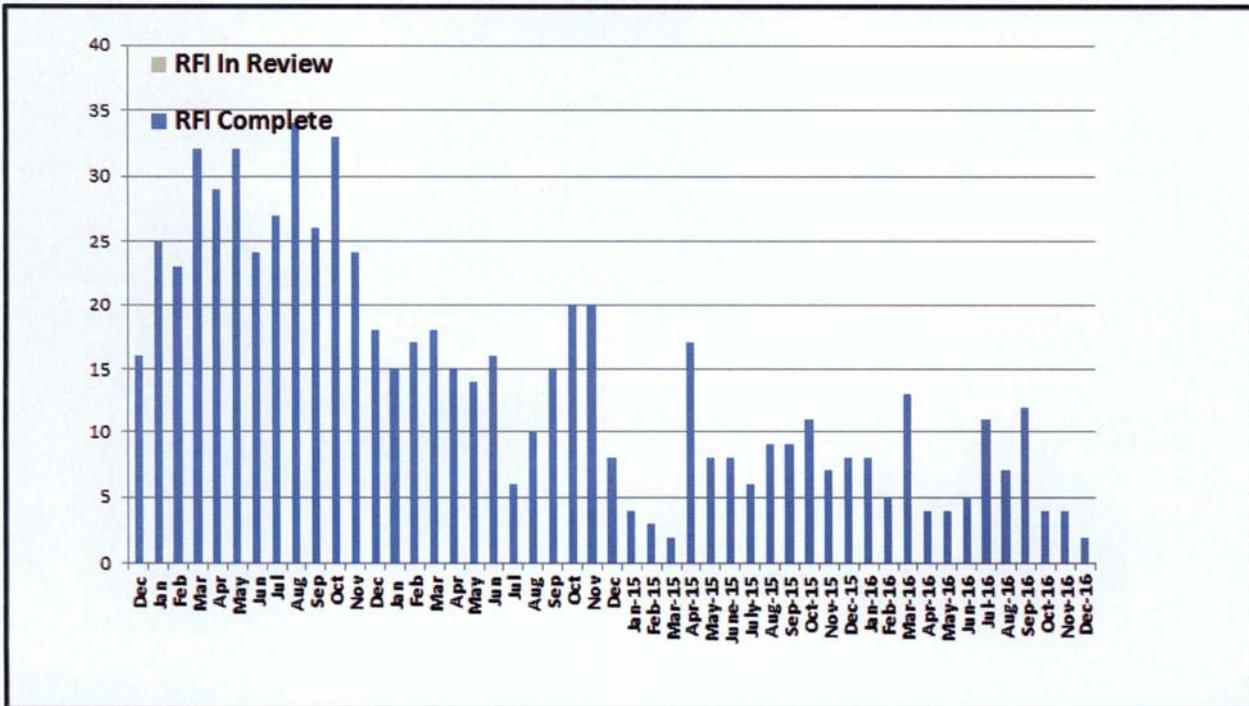
Unit Price Item Quantities – Actual Overruns

Unit Price Item Quantity Overruns (Estimated Actual Quantity Overruns)					
Item Number	Description	Actual Quantity Overrun	Units	Unit Price	Actual Cost Overrun
111	CLEARING AND GRUBBING	28.16	AC	\$ 7,700.00	\$ 216,832.00
120	REGULAR EXCAVATION	44188.62	CY	\$ 29.00	\$ 1,281,469.98
212	MINOR STRUCTURE EXCAVATION BOX CULVERT	1233.83	CY	\$ 35.00	\$ 43,184.05
505	BEDDING MATERIAL AGGR. NO. 25 OR 26	2689.74	TON	\$ 78.50	\$ 211,144.59
27500	GEOTEXTILE FABRIC	26020.98	SY	\$ 6.70	\$ 174,340.57
525	CONCRETE CLASS A3 MISC.	79.45	CY	\$ 2,913.26	\$ 231,458.51
1182	18" CONC. PIPE	514	LF	\$ 57.46	\$ 29,534.44
1242	24" CONC. PIPE	492.11	LF	\$ 76.22	\$ 37,508.62
2192	30" X 19" ELLIPTICAL CONC. PIPE	341	LF	\$ 150.00	\$ 51,150.00
27550	STORMWATER MANAGEMENT DRAINAGE STRUCTURE SWM-1	24.1	LF	\$ 6,232.87	\$ 150,212.17
9148	EROSION CONTROL STONE (CLASS A1), EC-1	942.34	SY	\$ 111.98	\$ 105,523.23
9150	EROSION CONTROL STONE (CLASS I), EC-1	3917.48	SY	\$ 147.48	\$ 577,749.95
85003	UNDERCUT EXC @ TWICE REG EXC	36315.83	CY	\$ 50.00	\$ 1,815,791.50
10636	ASPHALT CONCRETE TY. SM-9.5D	776.42	TON	\$ 75.00	\$ 58,231.50
10128	AGGR. BASE MATL. TY. I NO. 21B	35081.11	TON	\$ 28.23	\$ 990,339.74
10417	TACK COAT	8513.75	GAL	\$ 15.90	\$ 135,368.63
10630	FLEXIBLE PAVEMENT PLANING	53584.77	SY	\$ 2.23	\$ 119,494.04
12940	ENTRANCE GUTTER CG-9D	518.41	SY	\$ 70.73	\$ 36,667.14
13487	MEDIAN BARRIER MB-8A TYPE III	451	LF	\$ 162.83	\$ 73,436.33
22643	FENCE FE-CL	4094	LF	\$ 12.19	\$ 49,905.86
51910	SAW CUT	25226	LF	\$ 2.07	\$ 52,217.82
24703	NS REMOVE EXIST. (PIPE)	2173	LF	\$ 25.94	\$ 56,367.62
9151	EROSION CONTROL STONE, EC-1 (STD. PG-3 TYPE I, CLASS I)	1332.88	SY	\$ 83.27	\$ 110,988.92
27321	PROTECTIVE COVERING EC-2	99630.87	SY	\$ 1.35	\$ 134,501.67
13570	NS RETAINING WALL SOIL NAIL	626	SF	\$ 200.04	\$ 125,225.04
13570	NS RETAINING WALL TEMPORARY	12082.3	SF	\$ 30.00	\$ 362,469.00
2093	NS PRE-DRILLING OF WICK DRAINS	944854	LF	\$ 1.85	\$ 1,747,979.90
64808	DRIVING TEST FOR PRESTRESSED CONCRETE PILES 12"	1313	LF	\$ 55.00	\$ 72,215.00
272	SELECT MATERIAL, TYPE I	398.09	CY	\$ 59.57	\$ 23,714.22
27102	REGULAR SEEDING	11224.46	LB	\$ 15.00	\$ 168,366.90
39004	NS TEMPORARY SEEDING	2587	LB	\$ 15.00	\$ 38,805.00
515	TEMPORARY SHEET PILING	6806.43	SF	\$ 25.00	\$ 170,160.75
10065	AGGR. MATL. NO. 1	782.2192	TON	\$ 35.91	\$ 28,089.49
24278	GROUP II CHANNELIZATION DEVICES	376880	DAY	\$ 0.14	\$ 52,763.20
24283	POLICE PATROL	6506.73	HR	\$ 42.40	\$ 275,885.35
54550	CONSTR. PAVE. MARK. (TY. F, CL I) 4"	553945.77	LF	\$ 0.25	\$ 138,486.44
56052	BORED CONDUIT 4"	31261	LF	\$ 32.90	\$ 1,028,486.90
56053	2" PVC CONDUIT	46469	LF	\$ 2.25	\$ 104,555.25
56055	4" PVC CONDUIT	12050	LF	\$ 4.81	\$ 57,960.50
56200	TRENCH EXCAVATION ECI-1	4201	LF	\$ 4.59	\$ 19,282.59
55588	IN-GRADE JUNCTION BOX (JB-S1, S2 OR S3)	51	EA	\$ 1,500.00	\$ 76,500.00
64416	PRESTR. CONCRETE PILES 16"	793	LF	\$ 65.00	\$ 51,545.00
61704	CORROSION RESISTANT REINF. STEEL (Plan Quantity)	17439	LB	\$ 2.00	\$ 34,878.00
64868	DRIVING TEST FOR 24" PRESTR. CONC. PILE	238	LF	\$ 150.00	\$ 35,700.00
64416	PRESTR. CONCRETE PILES 16"	1569	LF	\$ 65.00	\$ 101,985.00
64416	PRESTR. CONCRETE PILES 16"	1578	LF	\$ 65.00	\$ 102,570.00
40081	8" DI WATER MAIN	753.84	LF	\$ 47.74	\$ 35,988.32
41982	NS 4" OFFSET	6	EA	\$ 4,705.65	\$ 28,233.90
44301	NS FURNISH and INSTALL 24" LINSTOP	2	EA	\$ 73,658.52	\$ 147,317.04
38900	NS SALT MARSH CORDGRASS, 2" PLUG	34864	EA	\$ 1.95	\$ 67,984.80
42080	8" DI SAN PIPE	365	LF	\$ 93.51	\$ 34,131.15
	Asphalt and Optional Fuel Price Adjustments		LS		\$ (1,642,227.91)
	Underruns		0 LS		\$ (2,474,119.44)
	Total				\$ 7,758,350.27

5. RFI AND SUBMITTAL STATUS



Total Number of Submittals = 705; Number of Submittals in review = 0;



Total Number of RFI = 688; Number of RFI in review = 0

6. SCHEDULE MILESTONES

The contractor submitted CPM schedule Update 40 with a data date of 2/25/2017. Update 40 has the Actual Completion on February 24, 2017 which is ahead of the contract completion date of April 1, 2017. The following chart summarized the current milestones in DBC's schedule and a comparison of projected Early Finish/Late Finish dates with the September 2016 CPM schedule update.

Milestones

Activity ID	Activity Name	Status	October 2016 Update 40		February 2017 Final Update		Actual Finish
			Early Finish	Late Finish	Early Finish	Late Finish	
2MS1210	ORT Final Acceptance	Completed					2/9/2017
MS0020	Contract Completion	Completed					2/24/2017
MS1020	Early Completion	Completed					12/11/2016
3MS1020	Phase 3 Complete / Cedar Road Mainline	Completed					12/11/2016
3MS1030	Cedar Road/Moses Grandy Complete	Completed					12/11/2016
1MS1030	Great Bridge Blvd Through Ramps complete	Completed					12/11/2016
1MS1010	Access Road C Complete	Completed					12/11/2016
361EW1200	Station 361 to B614/B615 Complete SB	Completed					10/25/2016
361EW1280	B614/B615 Through Ramps Complete	Completed					10/25/2016
361EW1480	Station 361 to B614/B615 Complete NB	Completed					10/25/2016
608-M8130	Existing Bridge Demolition Complete	Completed					10/25/2016
RKEW4150	Ramp K Complete	Completed					10/25/2016
RLEW1080	Place Traffic on completed Ramp R	Completed					10/25/2016
612-M9000	B612 Complete	Completed					10/29/2016
2MS1170	B-608 Complete	Completed					10/24/2016
ROUT1090	Ramp O Complete	Completed					9/25/2016
2MS1190	Ramp E, F & Bainbridge Blvd. Complete	Completed					9/5/2016
294TS1270	Site Installation Complete	Completed					6/1/2016
294TS1260	Completion of All Pre-Installation Testing	Completed					6/1/2016
1MS1040	B615 Complete	Completed					7/1/2016
1MS1045	B614 Complete	Completed					7/1/2016
613-M9000	B613 Complete	Completed					2/1/2016
GBMS1050	Great Bridge Blvd Phase 1 Complete	Completed					5/27/2016
AHEW1080	Access Road H Complete	Completed					7/26/2013
609-D1010	Clearing and Access Complete	Completed					3/22/2013
RKUT4110	Ramp K Utilities Complete	Completed					6/10/2013
RNEW1000	Ramp N Ground Improvements (Tied to RKEW4050)	Completed					1/10/2014
2MS1100	Shift Traffic To Detour A	Completed					10/6/2013
3MS1000	Traffic to Temp Ramp A & B	Completed					1/25/2014
1MS1020	Bridge B-616 Complete	Completed					9/29/2014
2MS1110	B-609 Complete	Completed					12/15/2014
2MS1120	B-610 Complete	Completed					12/15/2014
2MS1130	B-611 Complete	Completed					12/15/2014
2MS1140	Shift Traffic to B-609	Completed					12/15/2014
2MS1150	Ramp H Complete	Completed					12/15/2014
2MS1160	Ramp G Complete	Completed					12/15/2014
334EW1170	Ramp G, to Box Culvert Complete	Completed					12/15/2014
RLEW1230	Ramp L Under K Complete	Completed					12/15/2014
361EW1650	609 Abutment B through Ramp H Complete	Completed					12/15/2014
1MS1120	Ramps P & J Complete	Completed					12/2/2014
1MS1130	Ramp I Complete	Completed					12/15/2014
1MS1140	Ramp M Complete	Completed					12/13/2014
1MS1110	Ramp N Complete	Completed					12/15/2014
1MS1150	Shift Traffic to Phase 2 (Ramps I, L, M, P & under K Complete)	Completed					12/15/2014
3MS1011	Ramps C & D Available for B-609 traffic	Completed					2/4/2016

7. ATTACHMENT: Progress Photographs

Reviewed by: _____
Mike Prezioso, PE, CCM, MBP

cc: Kevin Lundgren, PE, City of Chesapeake