



# **Dulles Corridor Metrorail Project**

**MONTHLY COST AND SCHEDULE UPDATE  
FOR PHASES 1 AND 2  
AS OF NOVEMBER 30, 2014**

**JANUARY 2015**



## Phase 1 Cost Summary

November Expenditures	\$	1.6 Million
Total Expenditures	\$	2.724 Billion
Forecast at Completion	\$	2.905 Billion

## Phase 1 Contingency Utilization

<u>Total Contingency</u>	<u>\$ 462.3 Million</u>
Contingency Utilized through October 2014	\$ 448.3 Million
Contingency Utilized in November 2014	\$ 1.2 Million
Total Contingency Utilized through November 2014	\$ 449.5 Million
<u>Remaining Contingency</u>	<u>\$12.8 Million</u>



# Phase 1 November Contingency Utilization

<b>Total Contingency Utilized in November 2014</b>	<b>\$ 1.2 Million</b>
• Changes to Allowance Items Scope for Wayside Facilities	\$ 0.6 Million
• Reconcile final quantities for Above Ground Electrical Miscellaneous Materials-Early and Late	\$ 0.2 Million
• Reconcile final quantities for High & Medium Voltage Cables for Traction Power Supply	\$ 0.4 Million

## Status of Phase 1 Activities

- Activities Extending beyond Revenue Service Date:
  - Contract for replacement of Remote Terminal Units (RTUs) was executed w/ NTP on November 20, 2014.
  - Power frequency track circuits/bobbing track circuits (equipment replacement at track crossovers) – WMATA to perform, with budget in place.
  - Loss of Speed Read Outs (LSROs)/cab flips – Study to be performed via separate contract.
  - Art in Transit – Under Task Order contract w/ forecast completion of June 2015.
  - Heat Tape equipment modifications and testing – Contract preparation in process
  - Punch list nearly complete on WMATA items. Non transit items resolution to extend to Summer 2015.
  - Deficiency work and late changes that were mutually agreed to be delayed to Post-ORD via WMATA Cooperative Agreement Amendment #5 w/ a forecasted completion date of September 30, 2015.
  - Contract settlement process w/ a forecasted completion date of December 31, 2015.

## Phase 2 Cost Summary

November Expenditures	\$	23.9 Million
Total Expenditures	\$	341.7 Million
Total Budget	\$	2.778 Billion
Total Forecast	\$	2.778 Billion

## Phase 2 Contingency Utilization

<u>Total Contingency</u>	<u>\$ 551.5 Million</u>
Contingency Utilized through October 2014	\$ 10.7 Million
Contingency Utilized in November 2014	\$ 1.6 Million
Total Contingency Utilized through November 2014	\$ 12.3 Million
<u>Remaining Contingency</u>	<u>\$ 539.2 Million</u>

## Phase 2 November Contingency Utilization

<b>Total Contingency Utilized in November 2014</b>	<b>\$ 1.6 Million</b>
• Alternative Tie Extenders at Concrete Ties	\$ 1.5 Million
• Combining 100% and Issued For Permit Submittals for Design Package 10 (DP010) and Design Package 12 (DP012) <ul style="list-style-type: none"><li>– DP010 - Civil East Segment (median of Dulles Toll Road)</li><li>– DPO12 - Civil West Segment (median of Dulles Greenway)</li></ul>	(\$ 0.1) Million
• DIAAH Overhead Dynamic Messaging Signs - Design	\$ 0.2 Million



# Phase 2 Main Alignment Design-Build Activities

## Current

- Project design/field surveys
- Advancement of permits for critical design packages;
  - DP-025.1 (Facilities - TBS #7) – MWAA Permit issued on December 9, 2014
  - DP-024.5 (Facilities - TPSS #15) – MWAA Permit issued on December 4, 2014
  - DP-031 (Elevated Guideway S4 Superstructure) – MWAA Permit issued on December 1, 2014
  - DP-019.2 (Herndon Station Foundation) – MWAA (Building Codes) Permit issued on Nov. 25, 2014
  - DP-011 (Civil Airport Segment) – DEQ Permit issued on November 25, 2014
  - DP-014.2 (Utilities Aerial Guideway S1) – MWAA Permit issued on November 24, 2014
- Utility relocation work at Airport Station (sewer line) and Pier 78 (N10)
- Utility test pitting at Innovation Center Station (N09)
- Demolition of GSE building substructure (N09) and Horse Pen bridge abutment
- Pour drilled shafts, columns, and pier caps (N10, N96 and N98 Yard Leads)
- Field Office Laydown area – Setting up the trailers (AP-4)

# Phase 2 Main Alignment Design-Build Activities

## Upcoming

- Airport Station roadway improvements (N10)
- Station utilities installation at Innovation Center (N09)
- 34.5KV duct bank installation at Innovation Center Station (N09)
- Horse Pen bridge construction (N10)
- Pour drilled shafts, columns, and pier caps (N10, N96 and N98 Yard Leads)
- Dulles International Airport Access Highway (DIAAH) median work at Herndon Station for maintenance of traffic, barriers and jack & bores for storm drainage

# Phase 2 WMATA Rail Yard & Maintenance Facility Design-Build Activities

## Current

- Acceptance of the 30% design development
- Submission and reviews of the Project Procedures and Management Plans
- Site Surveys and Geotechnical investigations
- Draft Baseline Schedule Review

## Upcoming

- Project Detailed Design
- Baseline Schedule Presentation

# Phase 2 Site Preparation for the WMATA Rail Yard & Maintenance Facility Design-Build Activities

## Completed

- Grooming haul roads and rebuilding Operations Road
- Site final grading and landscaping
- Concrete head walls at culverts

## Upcoming

- Minor site maintenance & grading for early 2015



**Ronald Reagan Washington National Airport**



**Dulles Corridor Metrorail Project**



**Dulles Toll Road**



**Washington Dulles International Airport**



**METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY**



METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY

**DULLES CORRIDOR METRORAIL PROJECT - PHASE 1**  
**MONTHLY COST SUMMARY**  
**As of November 30, 2014**

Description	Budget Authorization <sup>1,6</sup>	Budget Amount <sup>2</sup>	Total Forecast <sup>3</sup>	Budget Variances		Expenditures to Date		Contract NTP	Contract Substantial  Note 5
				Amount Over / (Under)	Percent b-a/a	Amount c	Total Percent c/b		
	a		b	b-a	b-a/a		c/b		
<b>DULLES CORRIDOR METRORAIL PROJECT - PHASE 1</b>									
DESIGN-BUILD	2,027,776,076	1,712,504,539	2,027,641,804	(134,272)	0.0%	1,973,199,414	97%	2-Mar-09	9-Sep-13
UTILITY RELOCATION	188,240,026	129,016,151	188,240,026	(0)	0.0%	176,067,584	94%	1-Aug-07	30-Sep-10
ROW	86,769,130	87,215,795	83,222,235	(3,546,895)	-4.1%	77,466,742	93%	1-Aug-07	28-Feb-10
WMATA	278,485,628	271,635,628	278,485,628	0	0.0%	173,631,208	62%	28-Jul-07	8-Dec-13
PRELIMINARY ENGINEERING <sup>4</sup>	100,730,999	100,968,646	100,730,999	0	0.0%	100,730,999	100%	28-Jun-04	30-Jun-08
PROJECT MANAGEMENT	223,693,141	142,109,519	227,374,308	3,681,167	1.6%	222,841,320	98%	n/a	n/a
<b>TOTAL FOR DCOMP</b>	<b>2,905,695,000</b>	<b>2,443,450,278</b>	<b>2,905,695,000</b>	<b>(0)</b>	<b>0.0%</b>	<b>2,723,937,267</b>	<b>94%</b>		

## Notes:

- Budget Authorization based on FFGA project budget with estimated contingency spread among line items; includes interrelated highway improvements; does not include financing costs.
- Budget Amount is based on FFGA project budget but does not include finance costs and contingency distribution.
- Total Forecast includes approved change orders, estimates at completion and the estimated cost of future contingency utilization. It does not include finance costs.
- Preliminary Engineering expenditures have been agreed to be \$100,731,000. This is \$237,646 under the original budget of \$100,968,646. The under run is transferred to unallocated contingency.
- Design-Build Contract Substantial date was revised from the original date of 7/31/2013 to 9/9/2013.
- Additional Budget Authorization of \$150 million was approved by the Airports Authority's Board on June 22, 2012.

Legend: Black - Forecast within Authorization  
 Green - Forecast less than 3% over Authorization  
 Red - Forecast greater than 3% over Authorization



METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY

**DULLES CORRIDOR METRORAIL PROJECT - PHASE 1  
CONTINGENCY UTILIZATION  
As of November 30, 2014**

Description	Amount in million (\$)
<b>DULLES CORRIDOR METRORAIL PROJECT - PHASE 1</b>	
Total Contingency (including additional funding)	\$ 462.3
Contingency Utilized through October 2014	\$ 448.3
Expended Contingency in November 2014*	\$ 1.2
Total Contingency Utilized through November 2014	\$ 449.5
Remaining Contingency	\$ 12.8

\*See table below for details

Changes to Allowance Items Scope for Wayside Facilities	\$ 0.6
Reconcile final quantities for Above Ground Electrical Bulks-Early and Late	\$ 0.2
Reconcile final quantities for High & Medium Voltage Cables for Traction Power Supply	\$ 0.4
TOTAL	\$ 1.2





Airport	Project No	Description	Original Budget Amount	Budget Authorization
<b>DULLES CORRIDOR METRORAIL PROJECT - PHASE 1</b>				
<b>DESIGN-BUILD</b>				
DCMP	5101/5103	DTP - FFP	1,185,980,111	1,322,086,717
DCMP	5101/5103	Trackwork Allowance	75,378,042	88,408,431
DCMP	5101/5103	Station Finishes & MEP Allowance	81,953,493	96,120,562
DCMP	5101/5103	WFCY Sound and Box Platforms Allowance	6,686,211	7,842,037
DCMP	5101/5103	Pedestrian Bridges Allowance	12,239,488	14,355,294
DCMP	5101/5103	Site Development Allowance	61,718,153	70,200,426
DCMP	5101/5103	Installation of Public Art Allowance	633,862	743,436
DCMP	5101/5103	Communications and Security Allowance	24,300,826	28,501,641
DCMP	5101/5103	Fire Suppression Allowance	2,667,214	3,128,288
DCMP	5101/5103	Elevators and Escalators Allowance	38,732,282	45,427,822
DCMP	5101/5103	Spare Parts Allowance	5,515,011	6,468,375
DCMP	5101/5103	WFCY S&I Building Allowance	27,613,591	32,387,074
DCMP	5101/5103	Traction Power Supply Allowance	45,594,511	53,393,254
DCMP	5101/5103	ATC Supply Allowance	26,918,598	31,571,940
DCMP	5101/5103	Corrosion & Stray Currents Allowance	1,579,685	1,852,761
DCMP	5101/5103	Contact Rail Allowance	8,431,848	9,889,438
DCMP	5101/5103	Wiehle Parking Garage Allowance (By others)	29,091,684	34,120,681
DCMP	5101/5103	Commodity Index Payments	77,469,926	86,241,691
DCMP	5101/5103	Contingency	220,235,332	
		Adjustment due to Additional Funding		95,036,208
<b>SUBTOTAL - DESIGN-BUILD</b>			<b>1,932,739,867</b>	<b>2,027,776,076</b>
<b>UTILITY RELOCATION</b>				
DCMP	5101/5103	DTP (Lane)	83,310,836	98,449,857
DCMP	5101/5103	Design	2,394,135	2,775,026
DCMP	5101/5103	PM/CM	8,347,544	9,498,307
DCMP	5101/5103	Legal Permit Fee	834,796	923,095
DCMP	5101/5103	TERF	6,502,667	7,137,990
DCMP	5101/5103	Washington Gas Light - Force Account	4,231,456	4,644,877
DCMP	5101/5103	Dominion Power - Force Account	7,410,599	8,134,628
DCMP	5101/5103	Verizon - Force Account	3,418,254	3,752,224
DCMP	5101/5103	ATT Local - Force Account	1,935,438	2,124,534
DCMP	5101/5103	ATTLD - Force Account	216,276	237,407
DCMP	5101/5103	Verizon Business (MCI) - Force Account	1,761,409	1,933,502
DCMP	5101/5103	FiberLight - Force Account	75,234	82,585
DCMP	5101/5103	Qwest Government - Force Account	1,708,886	1,875,847
DCMP	5101/5103	Qwest Commercial - Force Account	993,153	1,090,186
DCMP	5101/5103	Above Net - Force Account	1,467,478	1,610,853
DCMP	5101/5103	Level 3 Com - Force Account	995,253	1,092,491
DCMP	5101/5103	XO Communication - Force Account	250,922	275,438
DCMP	5101/5103	Cox - Force Account	752,115	825,598
DCMP	5101/5103	Comcast - Force Account	178,697	196,156
DCMP	5101/5103	Fibergate - Force Account	31,512	34,591
DCMP	5101/5103	Time-Warner - Force Account	199,576	219,075
DCMP	5101/5103	FastToll (Qwest Business) - Force Account	220,584	242,135





<b>Airport</b>	<b>Project No</b>	<b>Description</b>	<b>Original Budget Amount</b>	<b>Budget Authorization</b>
DCMP	5101/5103	VDOT - Force Account	178,568	196,014
DCMP	5101/5103	ITS Fiber - Force Account	26,260	28,826
DCMP	5101/5103	UTILITY COMPANIES DESIGN	1,574,500	1,728,332
DCMP	5101/5103	Contingency	20,093,426	
		Adjustment due to Additional Funding		39,130,452
<b>SUBTOTAL - UTILITY RELOCATION</b>			<b>149,109,574</b>	<b>188,240,026</b>
<b>ROW</b>				
DCMP	5101/5103	Support Services	8,171,000	8,625,590
DCMP	5101/5103	Land & Relocation	79,044,794	87,639,548
DCMP	5101/5103	Contingency	9,049,345	
		Adjustment due to Additional Funding		(9,496,008)
<b>SUBTOTAL - ROW</b>			<b>96,265,139</b>	<b>86,769,130</b>
<b>WMATA</b>				
DCMP	5101	Vehicles	195,138,328	222,863,121
DCMP	5101	Construction and Procurement	31,484,799	35,958,085
DCMP	5101	WMATA Force Account Startup	13,777,100	15,734,518
DCMP	5101	Project Management and Final Design	31,235,400	35,673,251
DCMP	5101/5103	Contingency	38,593,348	
		Adjustment due to Additional Funding		(31,743,347)
<b>SUBTOTAL - WMATA</b>			<b>310,228,975</b>	<b>278,485,628</b>
<b>PRELIMINARY ENGINEERING</b>				
DCMP		PRELIMINARY ENGINEERING	100,968,646	100,968,646
		Adjustment due to Additional Funding		(237,647)
<b>SUBTOTAL - PRELIMINARY ENGINEERING</b>			<b>100,968,646</b>	<b>100,730,999</b>
<b>PROJECT MANAGEMENT</b>				
DCMP	5101/5103	MWAA	23,225,715	27,133,777
DCMP	5101/5103	PMSS	88,565,041	103,771,334
DCMP	5101/5103	VDOT	1,439,608	1,686,783
DCMP	5101/5103	OTHERS	28,879,153	33,791,186
DCMP	5101/5103	Contingency	24,273,563	
		Adjustment due to Additional Funding		57,310,061
<b>SUBTOTAL - PROJECT MANAGEMENT</b>			<b>166,383,080</b>	<b>223,693,141</b>
<b>TOTAL FOR DCMP</b>			<b>2,755,695,281</b>	<b>2,905,695,000</b>



METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY

**DULLES CORRIDOR METRORAIL PROJECT - PHASE 2**  
**MONTHLY COST SUMMARY**  
**As of November 30, 2014**

Description	Budget Amount <sup>1</sup>	Total Forecast <sup>2</sup>	<u>Expenditures to Date</u>		Contract NTP	Contract Substantial
			Amount	Total Percent c/b		
		b	c	c/b		
<b>DULLES CORRIDOR METRORAIL PROJECT - PHASE 2</b>						
DESIGN-BUILD Package A	1,193,777,000	1,214,549,253	148,831,301	12%	8-Jul-13	7-Jul-18
DESIGN-BUILD Package B + S	273,280,530	262,939,297	9,620,233	4%	18-Nov-13	29-Jun-18
ROW	58,600,000	58,600,000	3,461,730	6%	8-Jul-13	30-Sep-17
WMATA	305,324,718	305,324,718	45,085,228	15%	N/A	2-Jan-19
PRELIMINARY ENGINEERING	75,000,000	75,000,000	71,107,066	95%	15-Jul-09	30-Dec-13
PROJECT MANAGEMENT	320,802,137	322,649,514	63,563,241	20%	N/A	2-Jan-19
CONTINGENCY	551,451,179	539,172,782				
<b>TOTAL FOR DCMP</b>	<b>2,778,235,564</b>	<b>2,778,235,564</b>	<b>341,668,798</b>			

Notes:

- 1 Budget Amount includes contingency as separate line item and does not include finance costs.
- 2 Total Forecast includes funded changes. It does not include finance costs.
- 3 Budget Amount includes commodity escalation of \$20 million for Package A & B+S.



METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY

**DULLES CORRIDOR METRORAIL PROJECT - PHASE 2**  
**CONTINGENCY UTILIZATION**  
**As of November 30, 2014**

Description	Amount in million (\$)
<b>DULLES CORRIDOR METRORAIL PROJECT - PHASE 2</b>	
Total Contingency	\$ 551.5
Contingency Utilized through October 2014	\$ 10.7
Expended Contingency in November 2014*	\$ 1.6
Total Contingency Utilized through November 2014	\$ 12.3
Remaining Contingency	\$ 539.2

\*See table below for details

Alternative Tie Extenders at Concrete Ties	\$ 1.5
Combining 100% and IFP Submittals for DP010 and DP012	\$ (0.1)
DIAAH Overhead Dynamic Messaging Signs - Design	\$ 0.2
TOTAL	\$ 1.6



METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY

<b>Airport</b>	<b>Project No</b>	<b>Description</b>	<b>Budget Amount</b>
<b>DULLES CORRIDOR METRORAIL PROJECT - PHASE 2</b>			
<b>DESIGN-BUILD Package A</b>			
DCMP	5401	Package A - Mainline (CRC)	1,177,777,000
DCMP	5406	Commodity Escalation	16,000,000
DCMP	5408	Contingency amount	
DCMP	5408	Secondary mitigation amount	
<b>SUBTOTAL - DESIGN-BUILD Package A</b>			<b>1,193,777,000</b>
<b>DESIGN-BUILD Package B+S</b>			
DCMP	5402	Package B - Yard	269,280,530
DCMP	5402	Package S - Yard Site Preparation	incl above
DCMP	5406	Commodity Escalation	4,000,000
DCMP	5408	Contingency amount	
DCMP	5408	Secondary mitigation amount	
<b>SUBTOTAL - DESIGN-BUILD Package B+S</b>			<b>273,280,530</b>
<b>ROW</b>			
DCMP	5404	Land & Relocation	47,225,000
DCMP	5404	Support Services	11,375,000
DCMP	5408	Contingency	
<b>SUBTOTAL - ROW</b>			<b>58,600,000</b>
<b>WMATA</b>			
DCMP	5405	WMATA Vehicles	205,868,200
DCMP	5405	WMATA other costs	90,205,767
DCMP	5405	WMATA Non Revenue Vehicles	9,250,751
DCMP	5408	Contingency	
<b>SUBTOTAL - WMATA</b>			<b>305,324,718</b>
<b>PRELIMINARY ENGINEERING</b>			
DCMP	5406	PRELIMINARY ENGINEERING	75,000,000
<b>SUBTOTAL - PRELIMINARY ENGINEERING</b>			<b>75,000,000</b>
<b>PROJECT MANAGEMENT</b>			
DCMP	5406	MWAA Staff	34,000,000
DCMP	5406	MWAA Allocated Cost	13,560,000
DCMP	5406	Rent	9,200,000


 METROPOLITAN WASHINGTON  
 AIRPORTS AUTHORITY

<b>Airport</b>	<b>Project No</b>	<b>Description</b>	<b>Budget Amount</b>
DCMP	5406	Relocation, IT, Furniture	2,700,000
DCMP	5406	MWAA ODCs	17,060,000
DCMP	5406	Insurance (OCIP)	49,082,137
DCMP	5406	PMSS	140,000,000
DCMP	5406	VDOT	10,000,000
DCMP	5406	DRC Prof Svcs	2,500,000
DCMP	5406	CTI (Special Inspections)	14,000,000
DCMP	5406	DGS	2,000,000
DCMP	5406	TRIP II	2,000,000
DCMP	5406	Dept of Conservation & Recreation (DCR)	2,000,000
DCMP	5406	MWAA Permits/Inspection	4,000,000
DCMP	5406	Power for System Testing	16,000,000
DCMP	5406	Historical/Archaeologic	2,700,000
DCMP	5408	Contingency	
<b>SUBTOTAL - PROJECT MANAGEMENT</b>			<b>320,802,137</b>
<b>CONTINGENCY</b>			
DCMP	5408	Contingency - Package A	289,067,231
DCMP	5408	Secondary mitigation amount - Package A	0
DCMP	5408	Contingency - Package B	109,006,387
DCMP	5408	Secondary mitigation amount - Package B	0
DCMP	5408	Contingency - ROW	5,860,000
DCMP	5408	Contingency - WMATA	30,532,472
DCMP	5408	Contingency Project Management	116,985,089
<b>SUBTOTAL - CONTINGENCY</b>			<b>551,451,179</b>
<b>TOTAL FOR DCMP - PHASE 2</b>			<b>2,778,235,564</b>