

# **Route 58 Corridor from Hillsville to Stuart**

## **Hillsville By-Pass Project**

### **Quarterly Report**

**Period**

**April 1, 2009 through June 30, 2009**



**Branch Highways, Inc.**

# Quarterly Report

## 1. Introduction

This report includes work during the time period beginning April 1, 2009 and ending June 30, 2009. Project activities including design, permit monitoring, and construction occurred during this period.

## 2. Status of Project Plans and Project Schedule

All of the plans including Safety, Environmental, Quality Assurance and Quality Control, and Construction Traffic Management Plans have been previously completed. The initial detailed CPM Schedule has been submitted and approved. Monthly updates are being submitted with the monthly payment requests per the contract requirements.

## 3. Status of Construction Drawings

Construction Plans including Grading, Erosion and Sediment Control, Deep Drainage and Box Culverts, Storm Water Management Ponds, Bridges, Cross-sections, Utilities, Permanent signs, Phase II Erosion and Sediment Control, and Surface Drainage have been submitted, approved and released for construction. Drawings still needing approval include Final Pavement Sections/Details, Pavement Markings, and Permanent Lighting. These remaining construction drawings are still in the submittal/approval/release for construction process. In-stream Plans of Operations along with Plans and Agreements for additional waste and borrow sites are being submitted as needed.

## 4. Status of Project Permits

Permits are being held by VDOT for this project. The latest revised permit sketches were provided by VDOT on May 2, 2008 for the Hillsville Bypass project. Permit obligations such as pre-construction monitoring have been completed for any work areas where construction activities have started. Construction monitoring and reporting is on-going per the permit obligations. The First Year Monitoring Report was submitted to VDOT for the Department's review and submission to the regulatory agencies.

## 5. Project Team Members Under Contract

The project team currently consists of the following organizations listed alphabetically:

- a. Adams Construction Company to furnish and install asphalt for paved areas;
- b. DLB Inc. to construct the bridges and to install the precast box culverts;
  - i. ACE Steel, Inc. for reinforcing steel placement (Second Tier Subcontractor to DLB)
  - ii. Lanford Bros. for substructure repair (Second Tier Subcontractor to DLB)
  - iii. Penhall Company for bridge deck grooving (Second Tier Subcontractor to DLB)

- iv. Olympus Painting Contractors for Bridge Painting (Second Tier Subcontractor to DLB)
- v. Watts Barrier Walls for Bridge Parapet wall construction (Second Tier Subcontractor to DLB)
- c. E.C. Pace Company to furnish and install water and sanitary sewer utilities;
- d. Easter Fencing to furnish and install the Right of Way fence;
- e. Environmental Erosion Control LLC to furnish and install erosion control items;
- f. Greenhorne & O'Mara, Inc. to perform the asbestos abatement, abatement air monitoring and demolition of existing structures;
- g. Gregory Seeding & Landscaping, Inc. to furnish and install permanent and temporary seeding and the wetlands plantings;
- h. Hanson Pipe & Products to furnish the precast concrete box culverts;
- i. HNTB Corporation for design, construction inspection and permit monitoring;
- j. Kanawha Stone Company to perform most of the mass excavation operations;
- k. Midasco Incorporated to furnish and install the permanent signs and highway electrical;
- l. Nickelston Industries, Inc. to furnish and install guardrail;
- m. Payne's Parking Designs, Inc. to furnish and install permanent and temporary pavement markings;
- n. Permatile Concrete Products to furnish the precast concrete drainage pipe and structures;
- o. Salem Stone Corporation to furnish the aggregates;
- p. Slurry Pavers, Inc. to perform subgrade soil cement stabilization;
- q. Stockner Excavation, LLC to perform clearing operations at the far east end of the job;
- r. Thompson & Litton to perform the construction survey and layout;
- s. West Contracting Inc. to perform the clearing and grubbing.

## 6. Work Started and Completed

The activity on the construction site during the second quarter started slow with the wet weather but has picked up due to improvements in the weather. On-going erosion and sediment control maintenance as well as maintenance and protection of traffic/traveling public was performed throughout the project in all work areas.

### Work Area #1 – Webb Wetland Mitigation Site

Activity in the wetland mitigation site included removal of topsoil, excavation to off-site disposal area, and placement of compost material in excavated areas. To date the excavation is substantially complete. Grading for the work areas have progressed far enough to enable topsoil and organic compost material placement. As-built survey of the mitigation site is scheduled for this next quarter. Construction of the entrance road is currently underway.

#### Work Area #2 – Rt 58/221 to End of Rt 58/221 work (Station 45+45)

Base asphalt was placed on Service Road #1 during April. Final grading on the road side ditches at Service Road #1 was also performed near the end of the quarter. Base and surface asphalt was placed for the new turn lane for this service road.

Drainage structures were installed in the widened section of the east bound lanes of Rt. 58/221. Construction of Bridge B-617 (located on the east bound lanes of Route 58/221) continued with formwork and concrete placement of the west abutment footing as well as formwork for the east abutment footing.

Work east of B-617 on Rt. 58/221 included installation of surface drainage structures and pipe as the lane widening fill was placed. The new alignment of Gardner's Mill Road was constructed up to and including the stone base.

Work on Bridge B-616 which carries the westbound lanes of the Route 58 Bypass over Route 58/221 included completion of the abutments and MSE wall as well as the erection of the structural steel members. Installation of steel connectors/diaphragms, deck pans, overhang formwork, and reinforcing steel is ongoing.

#### Work Area #3 – Rt. 58 Bypass (South of Rt 58/221 Station 103+70) to Howlett Street (Station 115)

Mass earthwork operations are nearing completion in Work Area #3 which enabled box and balance activities to commence as well as the installation of the surface drainage pipe and structures. Wet weather and conditioning of the embankment material for the final lifts of the large fill in Area #3 has pushed completion of this fill to the first part of July. Final rock blasting, and excavation and grading for the entrance to Storm Water Management Pond #3 finished up late this quarter.

#### Work Area #4 – Howlett Street (Station 115) to East of Rt. 52 (Station 132)

Work on Bridge B-615 (Howlett Street over Rt. 58) experienced significant progress this quarter. Early this quarter, the slope protection was installed and the abutments were completed. By the end of the quarter, the structural steel had been set, metal decking installed, and deck reinforcing steel was in the process of being installed.

Mass excavation work continued in this area, in particular, embankment operations on the large fill just west of Rt. 52, weather permitting. Installation of storm drainage pipe and structures commenced in the area as the fill was being brought up to minimize any deep trenching operations.

Work Area #5 – East of Rt. 52 (Station 132) to Snake Creek Area (Station 158)

Mass excavation activities continued on the last remaining cut in this area (near Station 141+00). This activity was affected by the weather as well as the in-situ moisture content of the material which required drying to meet moisture/compaction requirements.

Work Area #6 – Snake Creek Area (Station 158) to East end Tie-in

Mass excavation activities continued in this area for the quarter as additional areas of the east end cut were made available for excavation (station 155+75 to 166+00). Based on topographic surveys, approximately 60% of the material has been moved from this excavation.

Installation of the first phase of the double box culvert (#34-17) at the far eastern end of the project started in early May. This work could not commence until the permit restrictions (Time of Year Restrictions) had ended. Water was turned into the new sections of the box culvert by mid-June. Preparation work for the embankment placement over the box culvert continued through the end of the quarter.

The mass excavation for the project is about 75% complete to date.

Stored materials have been approved by VDOT for bridge structural steel, steel decking, H-pile, right-of-way fencing, and guardrail. These material values are reflected in Attachment 1 which is part of the monthly pay estimates.

The project is on schedule to meet the contract substantial completion date of September 1, 2011.

There were no material disputes or claims, actions or assertions against the Contractor, the Project or Project Right of way, or Lien claims or stop notices filed or threatened to be filed by any Person for the period.

Please find the following attachments.

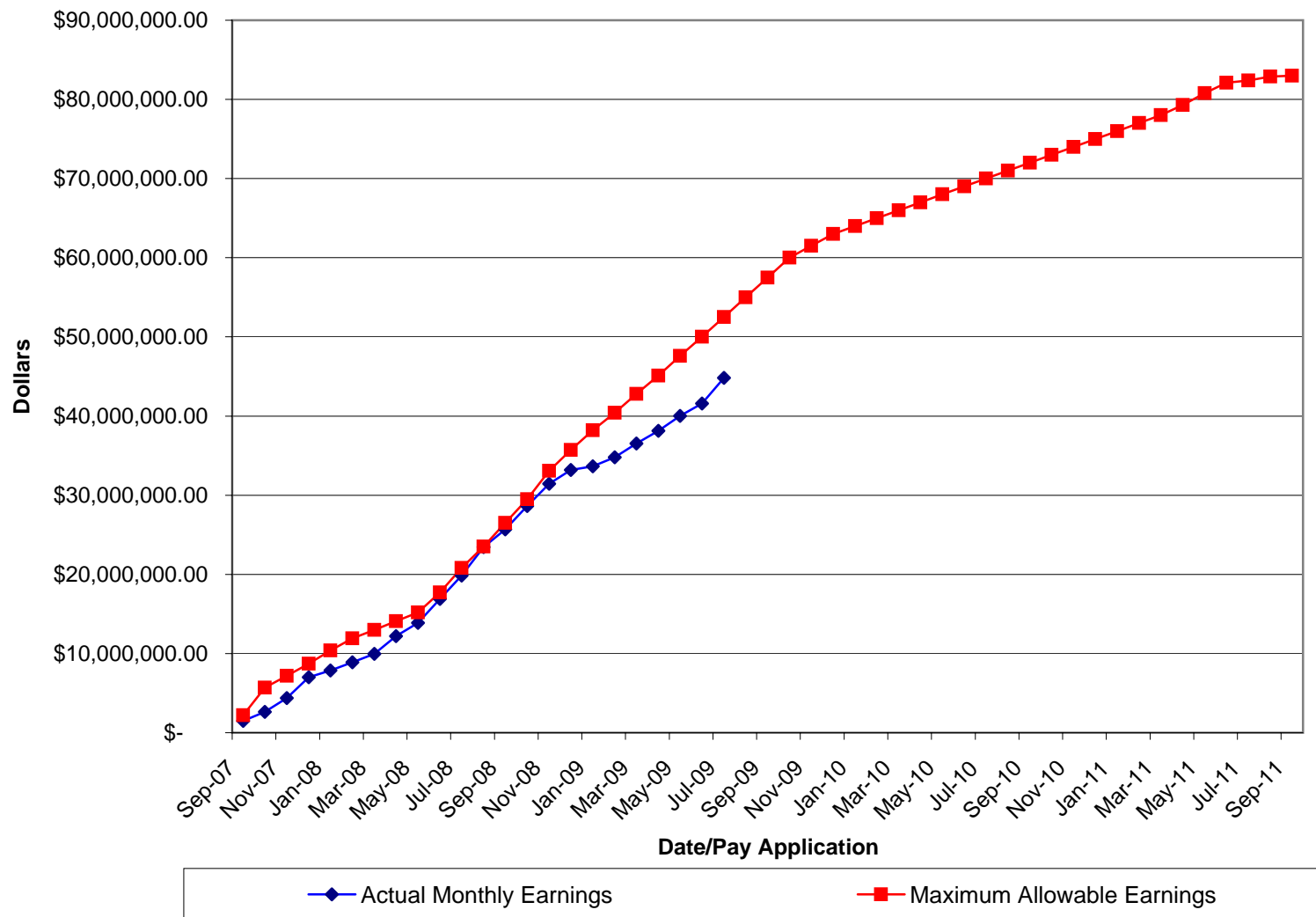
1. A chart and graph depicting the actual cumulative payment value and the maximum cumulative payment value allowed by the contract.
2. Project progress photos

**ACTUAL AND MAXIMUM EARNINGS  
RT. 58 PPTA - PHASE 2 HILLSVILLE BYPASS**

		Actual Monthly	Cumulative	Estimated	Cumulative
Month	Date	Earnings	Actual Monthly Earnings	Monthly Draw	Maximum Allowable Monthly Draw
1	09/20/07	\$ 1,500,000.00	\$ 1,500,000.00	\$ 2,200,000.00	\$ 2,200,000.00
2	10/20/07	\$ 1,150,000.00	\$ 2,650,000.00	\$ 3,500,000.00	\$ 5,700,000.00
3	11/20/07	\$ 1,709,500.00	\$ 4,359,500.00	\$ 1,500,000.00	\$ 7,200,000.00
4	12/20/07	\$ 2,650,500.00	\$ 7,010,000.00	\$ 1,500,000.00	\$ 8,700,000.00
5	01/20/08	\$ 851,950.00	\$ 7,861,950.00	\$ 1,700,000.00	\$ 10,400,000.00
6	02/20/08	\$ 1,036,150.00	\$ 8,898,100.00	\$ 1,500,000.00	\$ 11,900,000.00
7	03/20/08	\$ 1,047,600.00	\$ 9,945,700.00	\$ 1,100,000.00	\$ 13,000,000.00
8	04/20/08	\$ 2,253,500.00	\$ 12,199,200.00	\$ 1,100,000.00	\$ 14,100,000.00
9	05/20/08	\$ 1,666,300.00	\$ 13,865,500.00	\$ 1,100,000.00	\$ 15,200,000.00
10	06/20/08	\$ 3,045,380.21	\$ 16,910,880.21	\$ 2,500,000.00	\$ 17,700,000.00
11	07/20/08	\$ 2,921,142.73	\$ 19,832,022.94	\$ 3,100,000.00	\$ 20,800,000.00
12	08/20/08	\$ 3,621,732.87	\$ 23,453,755.81	\$ 2,700,000.00	\$ 23,500,000.00
13	09/20/08	\$ 2,244,500.00	\$ 25,698,255.81	\$ 3,000,000.00	\$ 26,500,000.00
14	10/20/08	\$ 2,944,970.32	\$ 28,643,226.13	\$ 3,000,000.00	\$ 29,500,000.00
15	11/20/08	\$ 2,802,662.50	\$ 31,445,888.63	\$ 3,600,000.00	\$ 33,100,000.00
16	12/20/08	\$ 1,738,856.34	\$ 33,184,744.97	\$ 2,600,000.00	\$ 35,700,000.00
17	01/20/09	\$ 463,461.00	\$ 33,648,205.97	\$ 2,500,000.00	\$ 38,200,000.00
18	02/20/09	\$ 1,148,716.24	\$ 34,796,922.21	\$ 2,200,000.00	\$ 40,400,000.00
19	03/20/09	\$ 1,750,950.00	\$ 36,547,872.21	\$ 2,400,000.00	\$ 42,800,000.00
20	04/20/09	\$ 1,592,642.50	\$ 38,140,514.71	\$ 2,300,000.00	\$ 45,100,000.00
21	05/20/09	\$ 1,894,207.25	\$ 40,034,721.96	\$ 2,500,000.00	\$ 47,600,000.00
22	06/20/09	\$ 1,538,820.11	\$ 41,573,542.07	\$ 2,400,000.00	\$ 50,000,000.00
23	07/20/09	\$ 3,236,630.25	\$ 44,810,172.32	\$ 2,500,000.00	\$ 52,500,000.00
24	08/20/09			\$ 2,500,000.00	\$ 55,000,000.00
25	09/20/09			\$ 2,500,000.00	\$ 57,500,000.00
26	10/20/09			\$ 2,500,000.00	\$ 60,000,000.00
27	11/20/09			\$ 1,500,000.00	\$ 61,500,000.00
28	12/20/09			\$ 1,500,000.00	\$ 63,000,000.00
29	01/20/10			\$ 1,000,000.00	\$ 64,000,000.00
30	02/20/10			\$ 1,000,000.00	\$ 65,000,000.00
31	03/20/10			\$ 1,000,000.00	\$ 66,000,000.00
32	04/20/10			\$ 1,000,000.00	\$ 67,000,000.00
33	05/20/10			\$ 1,000,000.00	\$ 68,000,000.00
34	06/20/10			\$ 1,000,000.00	\$ 69,000,000.00
35	07/20/10			\$ 1,000,000.00	\$ 70,000,000.00
36	08/20/10			\$ 1,000,000.00	\$ 71,000,000.00
37	09/20/10			\$ 1,000,000.00	\$ 72,000,000.00
38	10/20/10			\$ 1,000,000.00	\$ 73,000,000.00
39	11/20/10			\$ 1,000,000.00	\$ 74,000,000.00
40	12/20/10			\$ 1,000,000.00	\$ 75,000,000.00
41	01/20/11			\$ 1,000,000.00	\$ 76,000,000.00
42	02/20/11			\$ 1,000,000.00	\$ 77,000,000.00
43	03/20/11			\$ 1,000,000.00	\$ 78,000,000.00
44	04/20/11			\$ 1,300,000.00	\$ 79,300,000.00
45	05/20/11			\$ 1,500,000.00	\$ 80,800,000.00
46	06/20/11			\$ 1,300,000.00	\$ 82,100,000.00
47	07/20/11			\$ 300,000.00	\$ 82,400,000.00
48	08/20/11			\$ 500,000.00	\$ 82,900,000.00
49	09/20/11			\$ 100,000.00	\$ 83,000,000.00
	<b>Totals</b>	<b>\$ 44,810,172.32</b>		<b>\$ 83,000,000.00</b>	

\*\*Funding for future phases to be determined.

### Actual vs. Maximum Allowable Monthly Earnings Rt. 58 PPTA - Phase 2 Hillsville Bypass





**Image 1 - Work Area 2, B-616 Deck Pans (6-30-09)**



**Image 2 - Work Area 3, Mainline Bypass Box+Balance (6-30-09)**





**Image 3 - Work Area 4, B-615 Howlett St. Steel (6-8-09)**



**Image 4 - Work Area 5, Mainline Bypass Sta. 132 look East (4-29-09)**



**Image 5 - Work Area 5, Mass Excavation at Sta. 140 (4-23-09)**



**Image 6 - Work Area 6, Phase I of Box Culvert 34-17 (5-14-09)**