

Heartland Corridor – Clearance Project
FHWA Quarterly Status Report
July 28, 2009

<p>Project Description: The Heartland Corridor Clearance Project will enable double-stacked international maritime and domestic containers to be transported by rail between the Hampton Roads region of Virginia and locations in the Midwest by increasing tunnel clearances and modifying other overhead obstructions in western Virginia, West Virginia, and through to Columbus, Ohio.</p>	<p>Background: The Project is described twice in Public Law 109-59, the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU). At Section 1301(m)(2) it is described as: "Heartland Corridor Project including multiple intermodal facility improvements and improvements to facilitate the movement of intermodal freight from VA to OH." At Section 1702, Project No. 5072, it is described as: "Double stack clearance of tunnels on the Norfolk and Western Mainline in Virginia located on the Heartland Corridor."</p>
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Critical Issues:

Federal Funds - Have not received Fiscal Year 2009 Section 1702 funds.

Budget/Costs Status: The project continues to progress as NS has made the necessary adjustments to control the project budget. Construction requirements have been tailored throughout the project to help maximize efficiency and reduce costs while maintaining quality and safety standards. A revised budget has been incorporated into the Estimate to Complete column in the table below. The Financial Plan Update, which incorporates the revised budget, was completed on June 30, 2009. The update was distributed on July 7, 2009 and will be posted on the project website.

Federal Participation							
Location	January - 07 Baseline Budget	Estimate to Complete	Expended to Date (6/30/09)	Federal Share (Up to 80%)	Federal \$ Expended (6/30/09)	Total Fed \$ Available	Federal \$ Remaining
VA	17,465,826	14,902,765	15,053,215	4,497,024	3,540,755	4,497,024	956,269
WV	127,804,875	169,455,647	98,838,276	79,070,620	54,820,200	80,552,507	25,732,307
FHWA/ States	1,000,000	1,000,000	719,737	719,737	719,737	1,000,000	280,263
Subtotal	146,270,701	185,358,412	114,611,228	84,287,381	59,080,692	86,049,531	26,968,839
No Federal Participation							
VA	3,024,314	2,313,818	2,487,864				
OH	1,103,968	1,099,470	1,053,800				
KY, WV, & Misc	9,284,288	6,393,450	1,511,297				
Subtotal	13,412,570	9,806,738	5,052,961				
Total	159,683,271	195,165,150	119,664,189				

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Reasons for difference between Baseline Budget and Estimate to Complete:

4/19/07 - \$1,108,179 was removed on a prorated basis from both the VA and WV federal participating and WV non-participating rows. This amount was for the planning work completed prior to the MOA and is now included in the Misc. amount. This was done to better correspond with Norfolk Southern's project accounts. Estimate to Complete total is \$263,179 higher than the January 2007 baseline due to higher actual costs for planning and higher estimates for the preliminary engineering for the Ohio bridge work.

1/23/09 – The Estimate to Complete was revised based on a revised project budget prepared by NS and approved by the NS Board of Directors in November 2008. The overall increases in the budget were due to increased construction costs. In an effort to reduce total costs, some of non-clearance related work in Kentucky and West Virginia has been cancelled. This resulted in a lower estimated cost for the work with no federal participation.

Work Completed:

- ✓ *Project Funding:* In a Letter of Authorization from EFLHD dated July 9, 2009, the funds authorized under Section 1301 were increased by \$16,813,444 which increases the amount authorized for all activities in West Virginia to \$80,039,283. These funds represent nearly all of the Section 1301 funds available for the project. As the project gets closer to the scheduled completion date of June 2010, EFLHD will issue a final authorization to NS utilizing any remaining funds.
- ✓ *Ohio Work:* All clearance work in Ohio has been completed.
- ✓ *Virginia Work:* All Clearance work in Virginia has been completed.
- ✓ *West VA Work:*
 - All through truss bridge modifications are complete.
 - All signal replacements are complete.
 - Slide fence modifications: 4 out of 8 are complete.
 - Track work: 3 out of 23 tunnels are complete.
 - Structural modifications: 11 out of 20 tunnels are complete.

Work-In-Progress:

- *Project Funding:* VDOT has requested that the Section 1702 funds for Fiscal Year 2009 be transferred to EFLHD. Once the funds are received, a Letter of Authorization will be issued for approved work in VA. FY 2009 is the final year for the distribution of funds that were included in SAFETEA-LU.
- *Preliminary Engineering:* Final Plan Approval was issued for Big Sandy #1 and Williamson Tunnels on May 15, 2009. On June 3, 2009 100% plans were distributed for Big Sandy #3 Tunnel. On July 24, 2009 100% plans were distributed for Big Sandy #4.

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➤ *Tunnel Construction:*

Construction was completed on May 13, 2009 at Vaughan, Roderfield, Laurel, and Gordon Tunnels in WV. Trackwork to be completed by the Railroad.

Construction was completed on May 5, 2009 at Twin Branch 1 & 2 and Antler 1 & 2 Tunnels in WV. Trackwork to be completed by the Railroad.

Construction was completed on April 22, 2009 at Hemphill 1 & 2 Tunnels in WV. Trackwork to be completed by the Railroad.

Construction was completed on July 23, 2009 at Welch Tunnel in WV. Trackwork to be completed by the Railroad.

Construction is underway at Cooper Tunnel in WV. Current construction activities include grouting and bolting. Work is approximately 5% complete.

Construction is underway at Big Four No. 1 & 2, and West Vivian Tunnels in WV. Current construction activities include notching and liner removal. Work is approximately 30% complete.

Johnson Western Constructors was the low bidder for the Glen Alum Tunnel in WV. A contract was awarded on May 13, 2009 for \$2,359,130. The Contractor started work on June 1, 2009. Current construction activities include installing rockbolts. Work is approximately 5% complete.

Johnson Western Constructors was the low bidder for the Hatfield No. 2 Tunnel in KY. A contract was awarded on May 13, 2009 for \$2,851,740. The Contractor started work on June 1, 2009. Current construction activities include notching and shotcrete. Work is approximately 5% complete.

Johnson Western Constructors was the low bidder for the Big Sandy #1 Tunnel in WV. A contract was awarded on June 9, 2009 for \$8,849,975. A Pre-Construction Meeting was held on July 1, 2009 with an anticipated start date of July 13, 2009.

Johnson Western Constructors was the low bidder for the Williamson Tunnel in WV. A contract was awarded on July 16, 2009 for \$4,169,140. A Pre-Construction Meeting was held on July 15, 2009 with an anticipated start date of August 3, 2009.

A request for bids for Big Sandy #3 Tunnel was issued on June 23, 2009 with bids due on July 8, 2009. Bids have been received but a contract has not been awarded yet.

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- *Historical Preservation:* Installation of a Historical Roadside Marker in Virginia has been coordinated and approved by VA DHR. The installation of interpretive signs in West Virginia is being coordinated with the Coal Heritage Highway Authority. A site visit was held in April 2009 to identify potential locations for the signs in West Virginia. Coordination has been ongoing with the Coal Heritage Highway Authority.

Contracts:

Preliminary Engineering:	Hatch Mott MacDonald (NS)
Construction Engineering:	STV / Ralph Whitehead Associates (NS)
Cultural Resource Documentation:	TRC Solutions (EFLHD)
Cowan Tunnel:	Johnson Western Gunitite (NS)
Vaughan, Roderfield, Laurel, and Gordon Tunnels:	Johnson Western Gunitite (NS)
Antler 1 & 2 and Twin Branch 1 & 2 Tunnels:	LRL Construction (NS)
Hemphill 1 & 2 Tunnels:	R.J. Corman (NS)
Maybeury, Farm, and Sprigg Bridges:	L.C. Whitford Co. (NS)
Big Sandy No. 2:	Polivka International Co. (NS)
Welch Tunnel:	R.J. Corman (NS)
IPP:	Johnson Western Gunitite (NS)
Cooper Tunnel:	LRL Construction (NS)
West Vivian, Big Four 1&2:	LRL Construction (NS)
Glen Alum Tunnel:	Johnson Western Constructors (NS)
Hatfield No. 2 Tunnel:	Johnson Western Constructors (NS)
Big Sandy No. 1 Tunnel:	Johnson Western Constructors (NS)
Williamson Tunnel:	Johnson Western Constructors (NS)

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Project Schedule/Status: The Clearance Project is on schedule for completion in the summer of 2010. Norfolk Southern has reviewed the schedule and has made adjustments to tunnel sequencing to ensure that both the project and train operations are maximized. The final designs have been completed and prequalified contractors have been solicited for bids. Structural modifications have been completed in 11 tunnels to date with 9 tunnels remaining to be completed. NS will continue to complete the trackwork as the structural modifications are completed.

Milestones:

Activity	Planned	Actual
Advertisement of PE Contract:		June 29, 2006
PE Pre-Bid Meeting:		July 6, 2006
MOA w/ States Signed		July 11, 2006
PE Selection Panel		August 2, 2006
MOA w/ Railroad Signed		August 8, 2006
Award of PE Contract		Sep 29, 2006
EFLHD Receipt of FY 05 & 06 Funding	Nov-06	Feb 1, 2007; Mar 27, 2007
Advertisement of CE Contract:	Dec-06	Feb 1, 2007
EFLHD Receipt of FY07 Funding	Jan-07	Jun 6, 2007; Oct 25, 2007
Award of CE Contract	Mar-07	April 10, 2007
Completion of NEPA Document	Apr-07	June 13, 2007
EFLHD Receipt of FY08 Funding	Jan-08	Apr 7, 2008; Jul 2, 2008
EFLHD Receipt of FY 09 Funding	Jan-09	June 3, 2009;
Ohio Bridges		
Final Design Completed	Apr-07	July 20, 2007
Award of Construction Contract	Jul-07	November 12, 2007
Completion of Construction	Dec-07	September 30, 2008
Cowan Tunnel		
70% Design Completed	Mar-07	March 5, 2007
Final Design Completed	Apr-07	June 20, 2007
Award of Construction Contract	Jul-07	September 18, 2007
Completion of Construction	Apr-08	Nov-2008
Eggleston 1&2, Pembroke (by NS forces)		
Final Design Completed	Jun-07	Dec-2007
Completion of Construction	Dec-07	Apr-2008
Roderfield, Laurel, Gordon, Vaughan		
70% Design Completed	Apr-07	March 5, 2007
Final Design Completed	May-07	June 20, 2007
Award of Construction Contract	Aug-07	November 28, 2007
Completion of Construction	Jul-08	May 13, 2009
Antler 1&2, Twin Branch 1&2		
70% Design Completed	Sep-07	April 20, 2007
Final Design Completed	Nov-07	August 30, 2007
Award of Construction Contract	Feb-08	January 21, 2008
Completion of Construction	Jul-09	May 5, 2009

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Cooper		
70% Design Completed	Apr-07	March 5, 2007
Final Design Completed	May-07	September 18, 2008
Award of Construction Contract	Aug-07	November 12, 2008
Completion of Construction	Apr-08	
Hemphill 1 & 2 Tunnels		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	March 10, 2008
Award of Construction Contract	Feb-08	May 13, 2008
Completion of Construction	Jul-09	April 22, 2009
Maybeury, Farm, and Sprigg Bridges		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	May 5, 2008
Award of Construction Contract	Feb-08	September 3, 2008
Completion of Construction	Jul-09	January 14, 2008
Bid Sandy #2		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	April 4, 2008
Award of Construction Contract	Feb-08	September 3, 2008
Completion of Construction	Jul-09	December 2008
Hugers Tunnels		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	June 2, 2008
Completion of Construction	Jul-09	October 20, 2008
Welch Tunnel		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	August 5, 2008
Award of Construction Contract	Feb-08	September 19, 2008
Completion of Construction	Jul-09	July 23, 2009
Slide Fences		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	June 2, 2008
Completion of Construction	Jul-09	
West Vivian, Big Four No. 1, and Big Four No. 2 Tunnels		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	September 16, 2008
Award of Construction Contract	Feb-08	November 12, 2008
Completion of Construction	Jul-09	
Glen Alum Tunnel		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	March 12, 2009
Award of Construction Contract	Dec-08	May 13, 2009
Completion of Construction	Jun-10	
Hatfield No. 2 Tunnel		
70% Design Completed	Jul-08	August 2007

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Final Design Completed	Sep-08	March 12, 2009
Award of Construction Contract	Dec-08	May 13, 2009
Completion of Construction	Jun-10	
Williamson Tunnel		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	April 17, 2009
Award of Construction Contract	Dec-08	July 16, 2009
Completion of Construction	Jun-10	
Big Sandy No. 1 Tunnel		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	April 17, 2009
Award of Construction Contract	Dec-08	July 1, 2009
Completion of Construction	Jun-10	
Big Sandy No. 3 Tunnel		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	June 3, 2009
Award of Construction Contract	Dec-08	
Completion of Construction	Jun-10	
Big Sandy No. 4 Tunnel		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	July 24, 2009
Award of Construction Contract	Dec-08	
Completion of Construction	Jun-10	

Conclusion: The project is on schedule with final design being completed, earlier construction contracts being completed, and solicitations being issued for the final tunnels. There continues to be good cooperation between all parties involved.

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