

**Heartland Corridor – Clearance Project**  
**FHWA Quarterly Status Report**  
 February 4, 2008

<p><b>Project Description:</b> 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><b>Background:</b> 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:

- FY 2008 Section 1301 and 1702 funds

Budget/Costs Status: The project is continuing to progress and the estimate to complete will be adjusted as once the annual update to the Financial Plan has been completed in February 2008.

<b>Federal Participation</b>							
Location	January - 07 Baseline Budget	Estimate to Complete	Expended to Date (12/31/07)	Federal Share (80%)	Federal \$ Expended (12/31/07)	Total Fed \$ Available	Federal \$ Remaining
VA	17,465,826	17,432,826	2,999,999	2,399,999	233,404	4,320,000	4,086,596
WV	127,804,875	127,045,875	7,179,924	5,743,939	5,107,150	77,316,107	72,208,957
FHWA/ States	1,000,000	1,000,000	362,992	362,992	362,992	1,000,000	637,008
<b>Subtotal</b>	<b>146,270,701</b>	<b>145,478,701</b>	<b>10,542,915</b>	<b>8,506,930</b>	<b>5,703,546</b>	<b>82,636,107</b>	<b>76,932,561</b>
<b>No Federal Participation</b>							
VA	3,024,314	2,925,314	446,960				
OH	1,103,968	1,248,968	585,923				
KY, WV, & Misc	9,284,288	10,293,467	1,108,757				
<b>Subtotal</b>	<b>13,412,570</b>	<b>14,467,749</b>	<b>2,141,640</b>				
<b>Total</b>	<b>\$159,683,271</b>	<b>\$159,946,450</b>	<b>\$12,684,555</b>				

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.

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Work Completed:

- ✓ *Project Funding:* In a Letter of Authorization from EFLHD dated November 16, 2007, Norfolk Southern was authorized Section 1301 funds in the amount of \$14,354,888 for the Federal share of signal and construction work in West Virginia (Vaughan, Antler 1 & 2, and Twin Branch 1 & 2 Tunnels). In a Letter of Authorization dated January 7, 2008, Norfolk Southern was authorized Section 1702 funds in the amount of \$920,724 for the Federal share of construction work in Virginia (Cowan Tunnel). Total authorized to date for PE, CE, and CN is \$34,905,796 for Section 1301 and \$2,637,024 for Section 1702.
- ✓ *Preliminary Engineering:* Final plans and specifications were completed by the Railroad and approved by EFLHD on August 30, 2007 for Antler 1&2, Twin Branch 1&2, and Vaughan Tunnels in West Virginia. The 95% deliverables have been completed for all of the other tunnels except Big Sandy #1 & #4 tunnels which have been through 70% distribution.
- ✓ *Contractor Pre-Qualification:* Request for Pre-Qualification numbers 4 & 5 were posted on the West Virginia DOT web site on December 1, 2007. Contractor qualification statements were due January 15, 2007. A selection panel has not met yet to review the qualification statements.
- ✓ *Ohio Bridge Work:* Steel modifications have been completed at: Bridge N-634.74, Waverly, OH; Bridge N-576.93, Coal Grove, OH; Bridge N-653.84, Lunbeck, OH. Grading work for track relocations at Bridge N-579.83, Ironton, OH has been contracted out and has been completed. Contract was signed on November 12, 2007 and grading was completed on December 21, 2007. The track shift still needs to be completed.

Work-In-Progress:

- *Project Funding:* EFL has requested from Federal Lands Highway Headquarters an allocation for the FY 2008 Section 1301 and 1702 funds to be used in West Virginia and Virginia respectively. At this time, HQ has not received an allotment for these funds. These funds can be utilized in FY 2008.
- *Preliminary Engineering:* 95% plans and specifications for Big Four #2, Huger Main #1, Huger Main #2, and Williamson Tunnels were distributed on January 9, 2008. HMM is continuing to make good progress in completing the final designs for the remaining tunnels.
- *Tunnel Construction:* Construction is in-progress at Cowan Tunnel in Virginia. Work consists of ground classification, sidewall grouting, sidewall rockbolt installation, saw cutting, pre-drilling roof rockbolts, and liner removal.

A contract for the Vaughan, Roderfield, Laurel, and Gordon Tunnels in West Virginia was awarded to Johnson Western Gunitite Co., Inc. on November 28, 2007. The contract price was \$23,888,452. A pre-construction conference was held December 18, 2007. Contractor started to mobilize on January 2, 2008.

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A pre-bid meeting for Twin Branch 1 & 2 and Antler 1 & 2 Tunnels in WV was held November 13, 2007. Bids were due December 13, 2007. LRL Construction Co., Inc. was the low bidder and the contract documents are currently being finalized. A pre-construction conference is scheduled for February 6, 2008.

Norfolk Southern began undercutting the track at Eggleston #1 Tunnel in VA on December 3, 2007. This work is being performed by the Railroad's crews.

- *Ohio Construction:* Steel modifications are underway at Bridge N-683.96, Ashville, OH.
- *Historical Preservation:* TRC Solutions has completed the field work for the cultural resource documentation. Sample documentation has been submitted to the WV and VA SHPOs and has received preliminary approval. TRC is currently working on the report and the final submittals to the SHPOs.

Contracts:

Preliminary Engineering:	Hatch Mott MacDonald (NS)
Construction Engineering:	STV / Ralph Whitehead Associates (NS)
Cultural Resource Documentation:	TRC Solutions (EFLHD)
Cowan Tunnel:	Johnson Western Gunite (NS)
Vaughan, Roderfield, Laurel, and Gordon Tunnels:	Johnson Western Gunite (NS)
Antler 1 & 2 and Twin Branch 1 & 2 Tunnels:	LRL Construction (NS)

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Project Schedule/Status: Project is generally on schedule. Norfolk Southern has reviewed the schedule and is working to make adjustments to ensure that both the project and train operations are maximized. This review is resulting in the acceleration of the design of the remaining tunnels with the possible acceleration of the construction of the remaining tunnels. The acceleration of the construction schedule will be dependent on what the Railroad feels the construction market is capable of supporting.

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	
EFLHD Receipt of FY 09 Funding	Jan-09	
<b>Ohio Bridges</b>		
Final Design Completed	Apr-07	July 20, 2007
Award of Construction Contract	Jul-07	November 12, 2007
Completion of Construction	Dec-07	
<b>Cowan Tunnel</b>		
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	
<b>Eggleston 1&amp;2, Pembroke (by NS forces)</b>		
Final Design Completed	Jun-07	
Completion of Construction	Dec-07	
<b>Roderfield, Laurel, Gordon, Vaughan</b>		
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	
<b>Antler 1&amp;2, Twin Branch 1&amp;2</b>		
70% Design Completed	Sep-07	April 20, 2007
Final Design Completed	Nov-07	August 30, 2007
Award of Construction Contract	Feb-08	
Completion of Construction	Jul-09	
<b>Cooper</b>		

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70% Design Completed	Apr-07	March 5, 2007
Final Design Completed	May-07	
Award of Construction Contract	Aug-07	
Completion of Construction	Apr-08	
2008 Tunnels and Bridges		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	
Award of Construction Contract	Feb-08	
Completion of Construction	Jul-09	
2009 Tunnels and Bridges		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	
Award of Construction Contract	Dec-08	
Completion of Construction	Jun-10	

Conclusion: The project continues to gain momentum with contracts being awarded, additional solicitations for construction bids, and designs being completed. Lessons learned during the early phases of construction are being utilized to refine the designs of the remaining tunnels. There continues to be good cooperation between all parties involved.

<i>Contacts:</i>	
<i>Project Director</i>	<i>Project Manager</i>
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<i>Project Web Site:</i> <a href="http://www.epl.fhwa.dot.gov/projects-heartland-corridor.aspx">www.epl.fhwa.dot.gov/projects-heartland-corridor.aspx</a>	