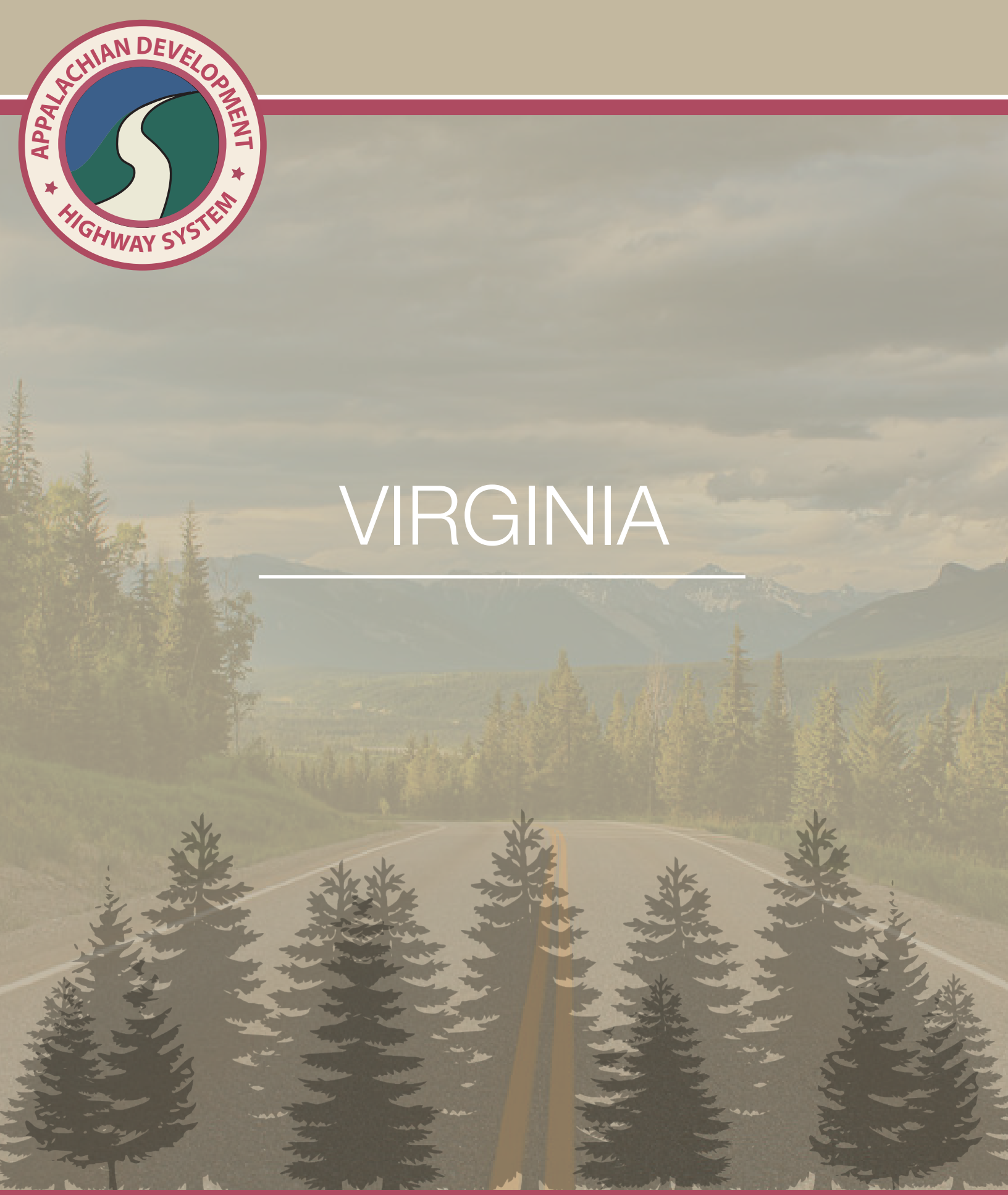


VIRGINIA

2012 ESTIMATE
OF THE COST TO COMPLETE
THE APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM
IN THE COMMONWEALTH OF VIRGINIA

May 2012
(Data as of September 30, 2011)

Prepared by the Virginia Department of Transportation

In Cooperation with the

U.S. Department of Transportation
Federal Highway Administration
Appalachian Regional Commission
and the
Nick J. Rahall, II Appalachian Transportation Institute

This 2012 Estimate of the Cost of Completing the Appalachian Development Highway System in the Commonwealth of Virginia as of September 30, 2011 was prepared in accordance with the 2012 ADHS Cost Estimate Guidelines and Software Instruction Manual by the Virginia Department of Transportation in cooperation with the Federal Highway Administration and the Appalachian Regional Commission.

It is the Commonwealth's full intention to construct all of the Appalachian Development Highway System corridors herein and to the standards indicated in this Estimate.

Mr. Gregory A. Whirley
Commissioner of Highways
Virginia Department of Transportation

Mrs. Irene Rico
Division Administrator
Federal Highway Administration

VIRGINIA PORTION OF APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM

COMMONWEALTH OF VIRGINIA

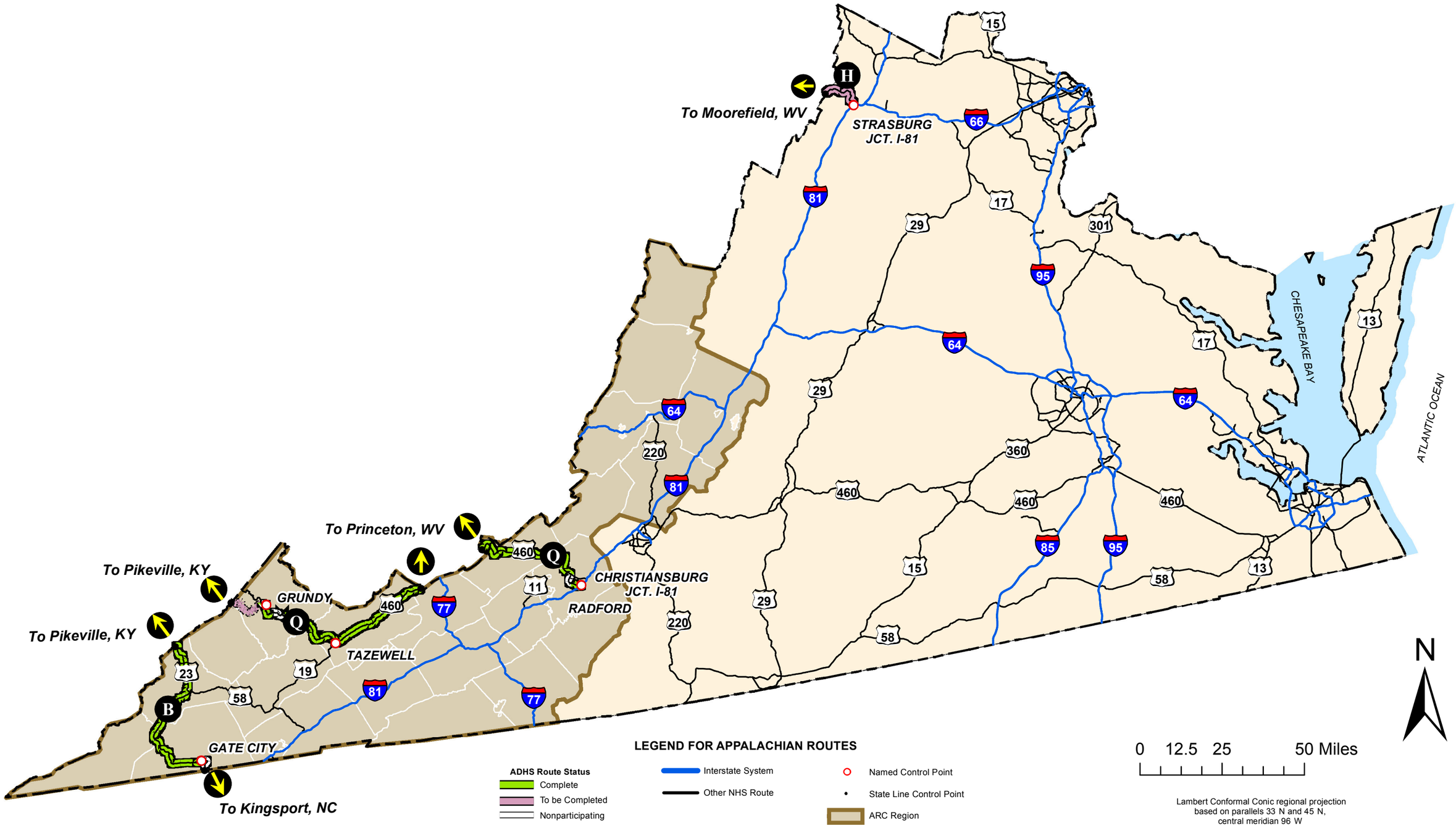
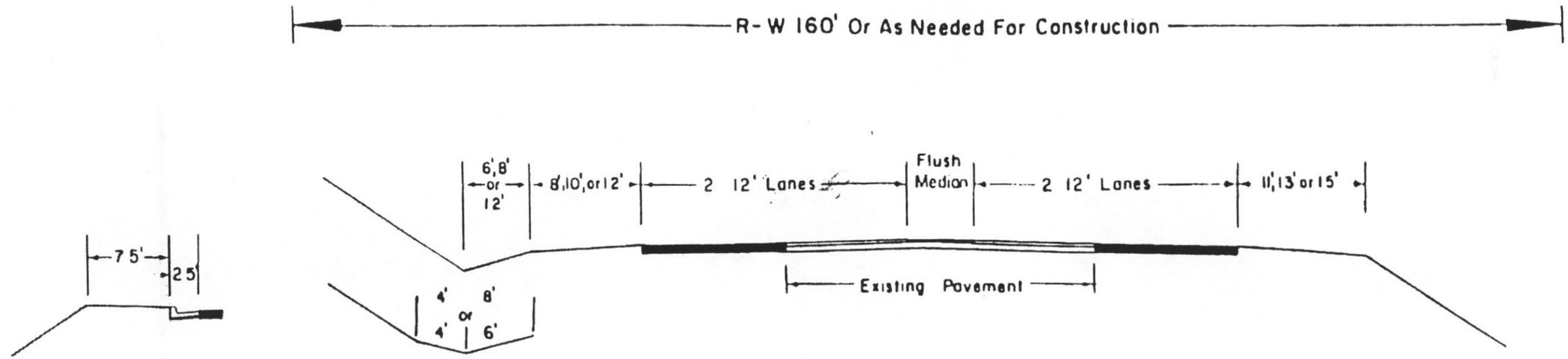


TABLE A
Appalachian Corridor Segment Descriptions

State/Commonwealth of Virginia

Corridor Letter	Principal Existing Route Numbers	Segment Descriptions	Eligible (miles)	Ineligible (miles)
B	US 23	Tennessee State Line - Gate City		4.0
B	US 23	Gate City - Kentucky State Line	57.5	
H	SR 55	West Virginia State Line - Route I-81	14.4	
Q	US 460	Kentucky State Line - 0.19 Miles North of Rte. 656	14.2	
Q	US 460	0.19 Miles North of Rte.656 - Grundy		1.2
Q	US 460	Grundy - Grundy	5.4	
Q	US 460	1.2 Miles south Route 83- 1.7 miles East Dismal River		4.0
Q	US 460	1.7 miles East Dismal River - West Virginia State Line (Blue Field)	58.0	
Q	US 460	West Virginia State Line (Glen Lyn) East River		0.2
Q	US 460	East River - East End Blacksburg Bypass	38.7	
Q	US 460	Blacksburg Bypass - Christiansburg Bypass		3.0
Q	US 460	West End Christiansburg Bypass - Route I-81	3.4	
Q	US 460	0.6 Miles Eligible Undetermined Section	0.6	
		Total	192.2	12.4



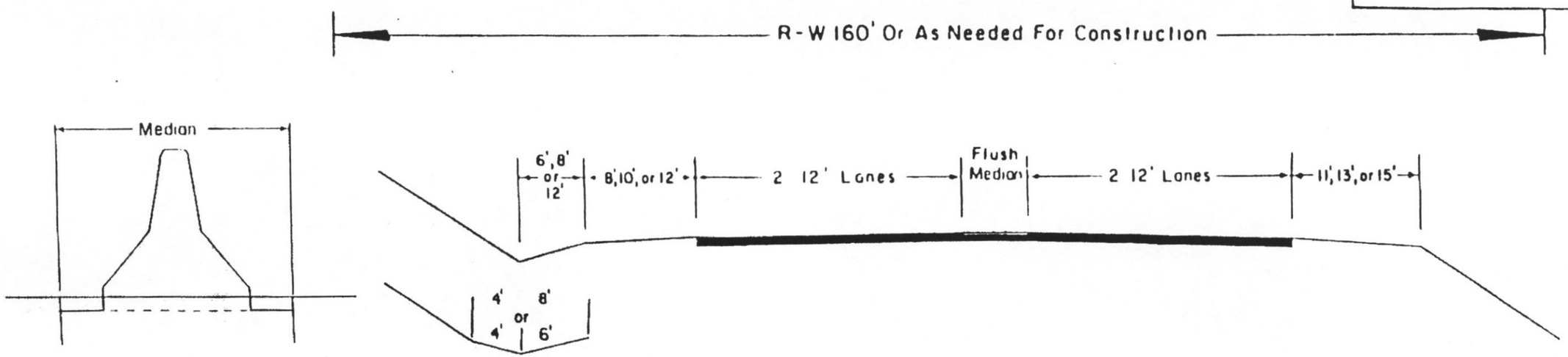
ALTERNATE
With Curb and Gutter
if Required

TRAVERSABLE
DITCH DETAILS

TYPICAL SECTION A-1

(WIDENING OF EXISTING ROAD)
("None" Access Control)

Note. Lateral dimensions as shown hereon may vary as necessitated by individual project requirements

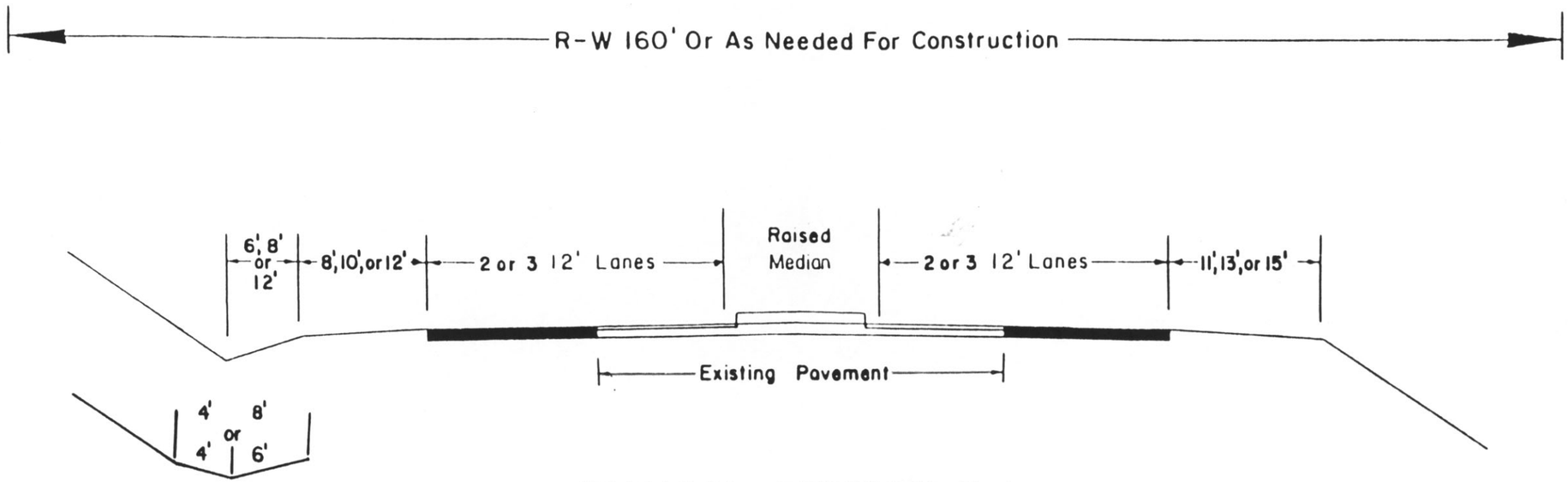


ALTERNATE
With Concrete Median Barrier

TRAVERSABLE
DITCH DETAILS

TYPICAL SECTION A-2

(NEW CONSTRUCTION)
("Partial" or "Full" Access Control)



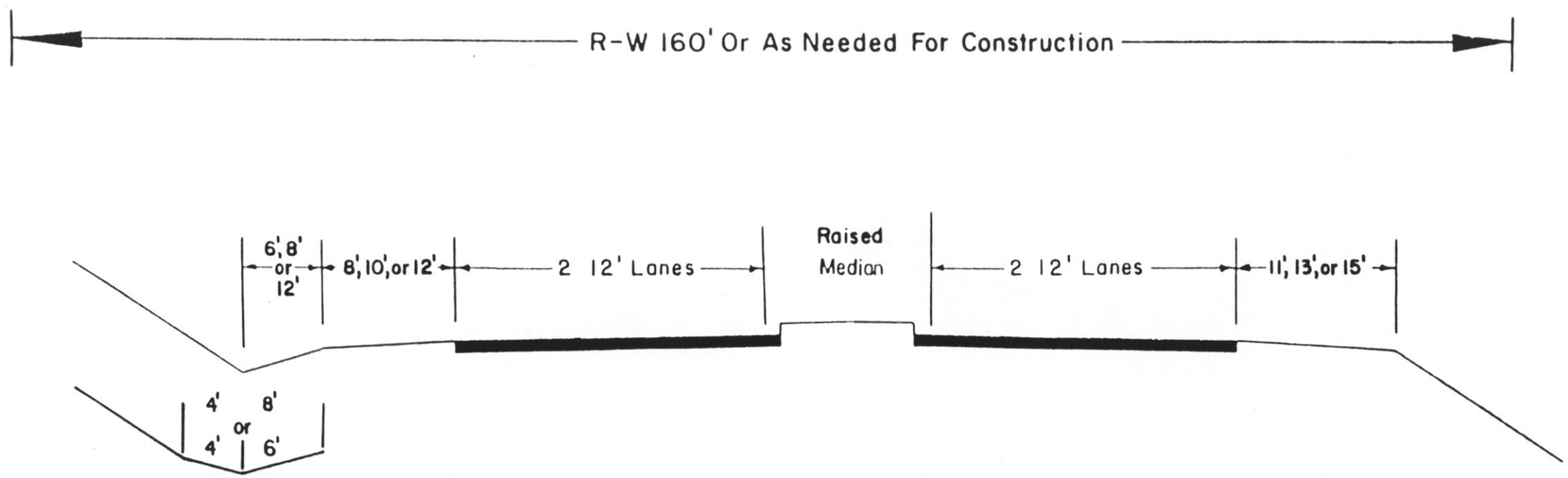
TRAVERSABLE DITCH DETAILS

TYPICAL SECTION B-1

(WIDENING OF EXISTING ROAD)

("None" Access Control)

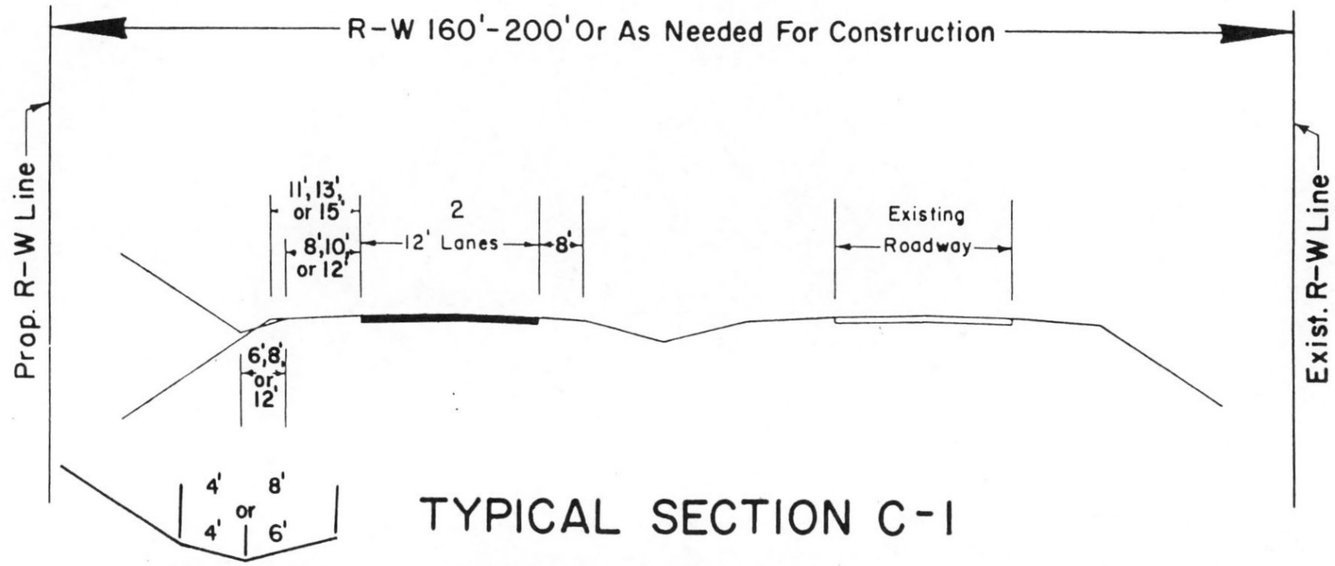
Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.



TRAVERSABLE DITCH DETAILS

TYPICAL SECTION B-2

(NEW CONSTRUCTION)



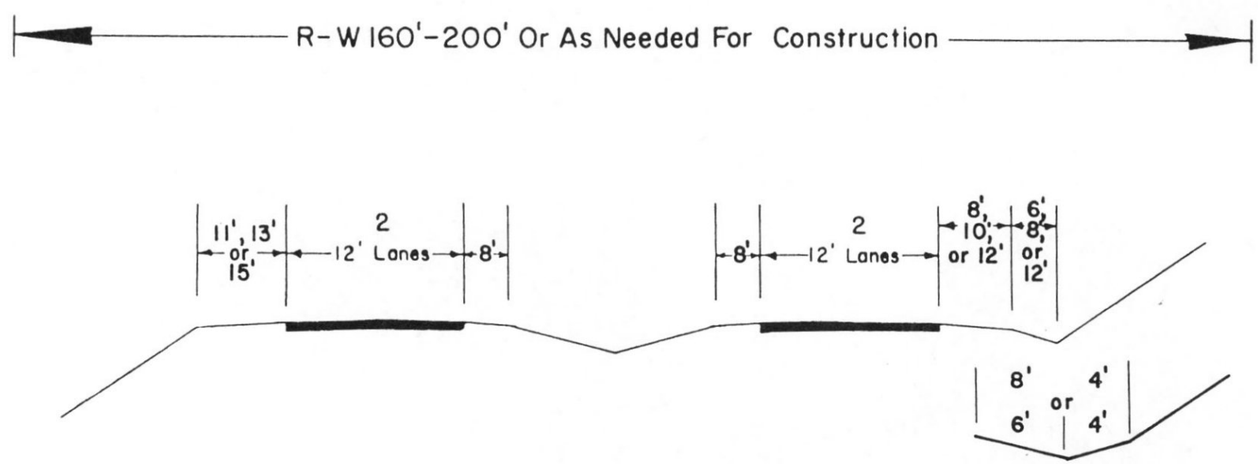
TRAVERSABLE DITCH DETAILS

TYPICAL SECTION C-1

(PARALLEL CONSTRUCTION)

("Partial" or "Full" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

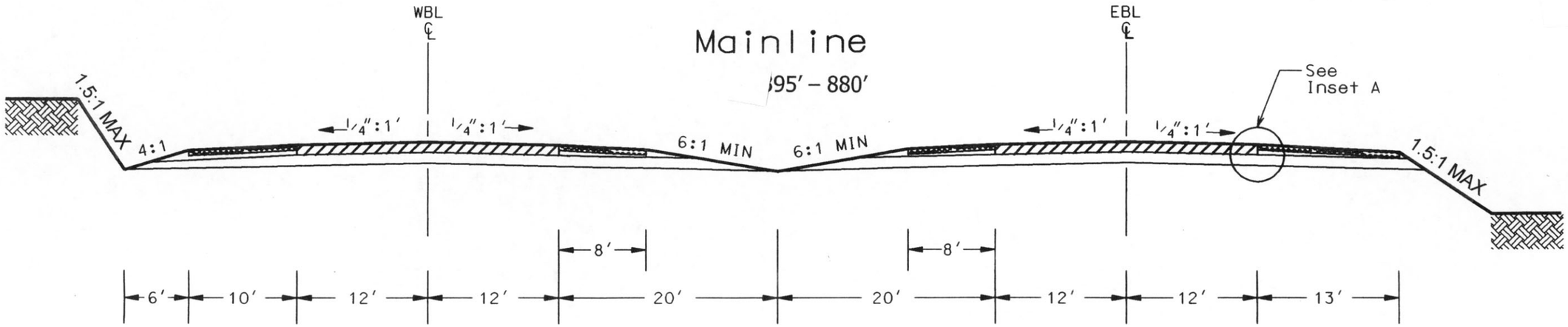


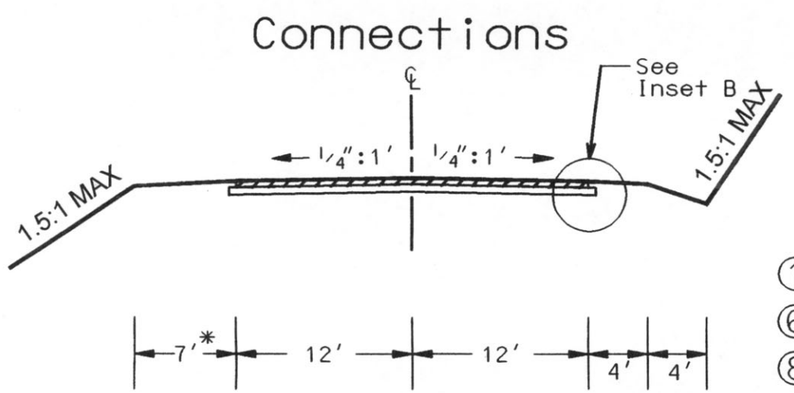
TRAVERSABLE DITCH DETAILS

TYPICAL SECTION C-2

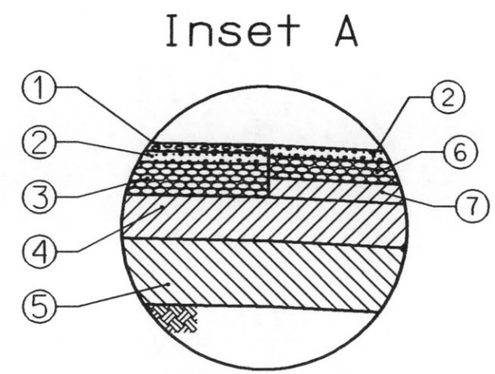
(NEW CONSTRUCTION)

("Partial" or "Full" Access Control)

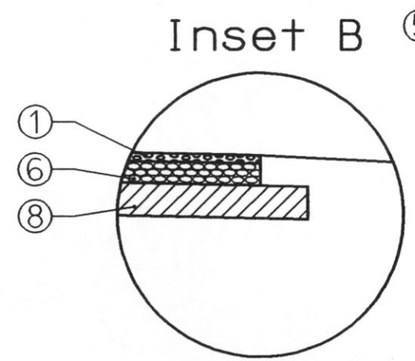




* 3′ MORE ADDED FOR GUARDRAIL IN FILL SECTIONS



NOT TO SCALE



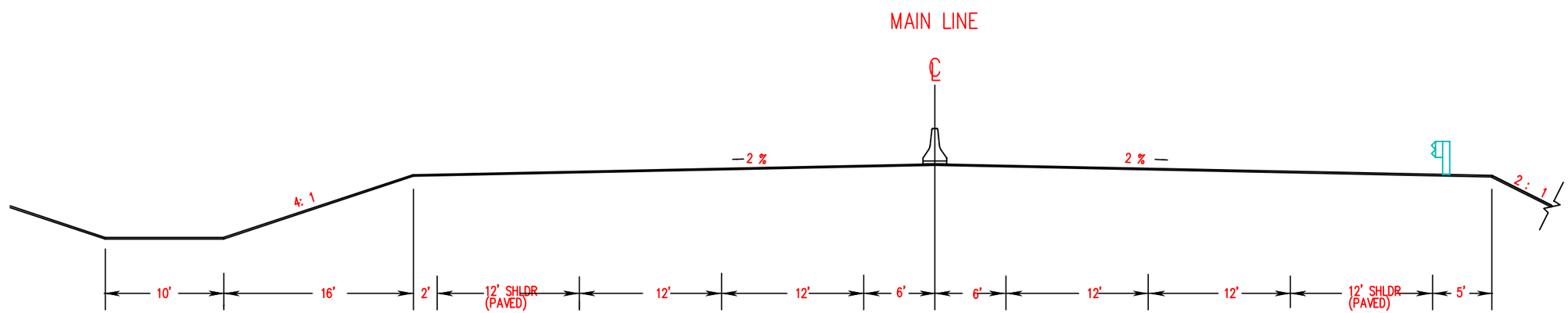
NOT TO SCALE

1. ASPHALT SURFACE COURSE 1½″ SM 12.5
2. ASPHALT INTERMEDIATE COURSE 2″ IM 19.0A
3. ASPHALT BASE COURSE 6″ BM 25.0
4. AGGREGATE BASE MATERIAL 8″ 21B
5. AGGREGATE BASE MATERIAL 12″ #1 Stone
6. ASPHALT BASE COURSE 4″ BM 25.0
7. AGGREGATE BASE MATERIAL 3½″ 21B
8. AGGREGATE BASE MATERIAL 6″ 21B

TYPICAL SECTION C-3

(NEW CONSTRUCTION)
("Partial" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

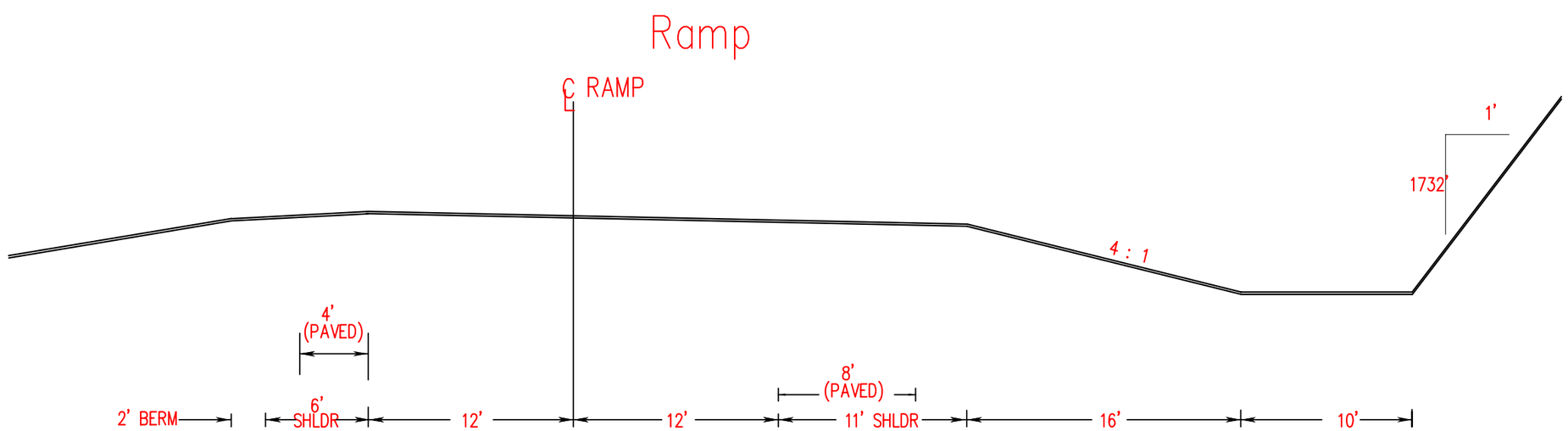


TYPICAL SECTION C-3A

(NEW CONSTRUCTION)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

C-3A



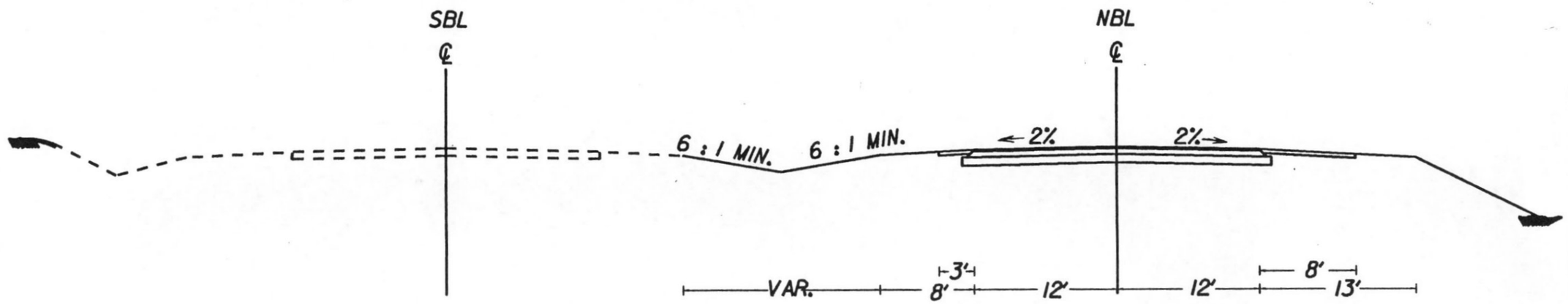
TYPICAL SECTION C-3B

(NEW CONSTRUCTION)

("Partial" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

C-3B



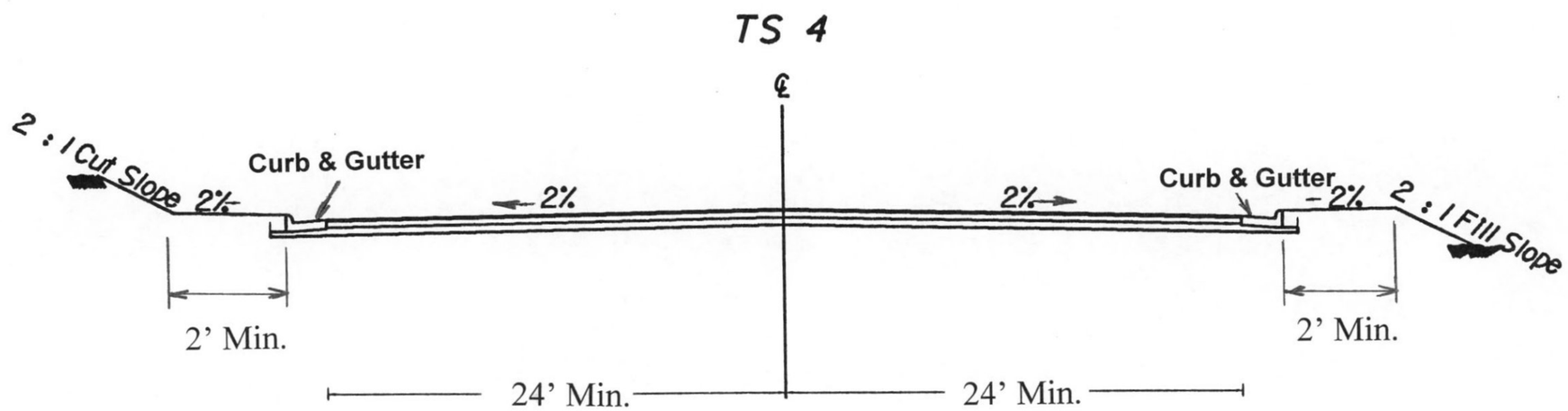
R - W 150' or as required

TYPICAL SECTION C-4

(Route 19)

("None" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

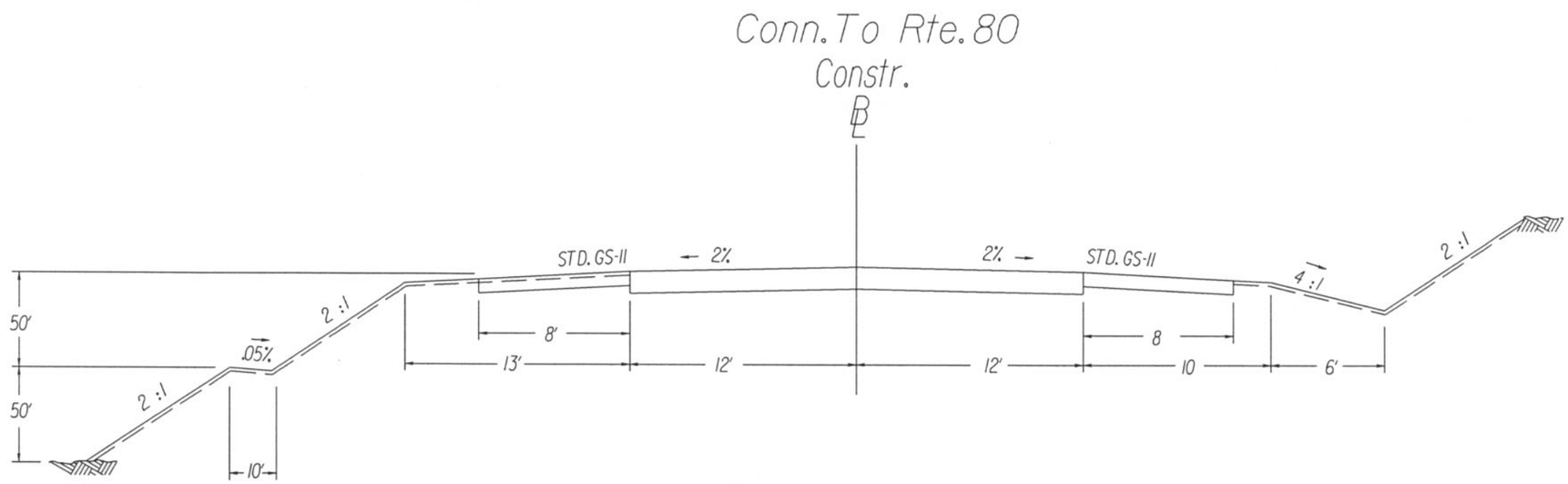


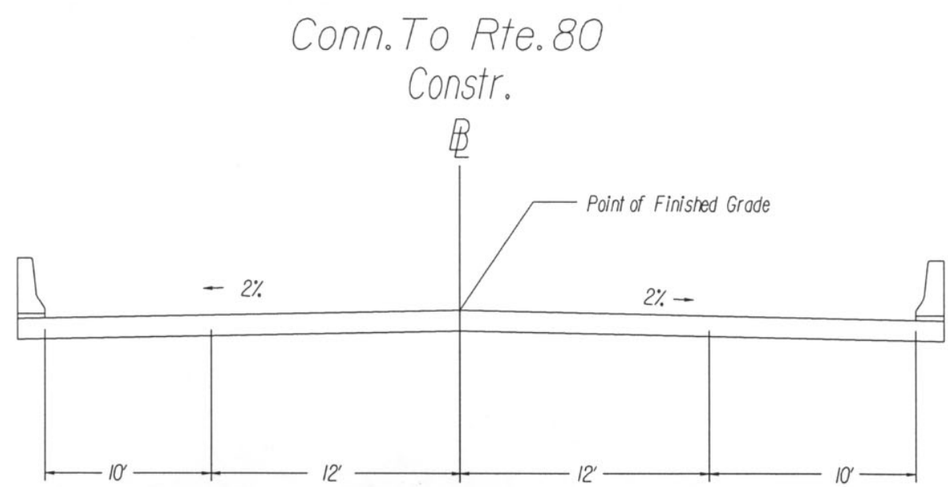
TYPICAL SECTION C-5

(Route 460) R - W 100' or as required

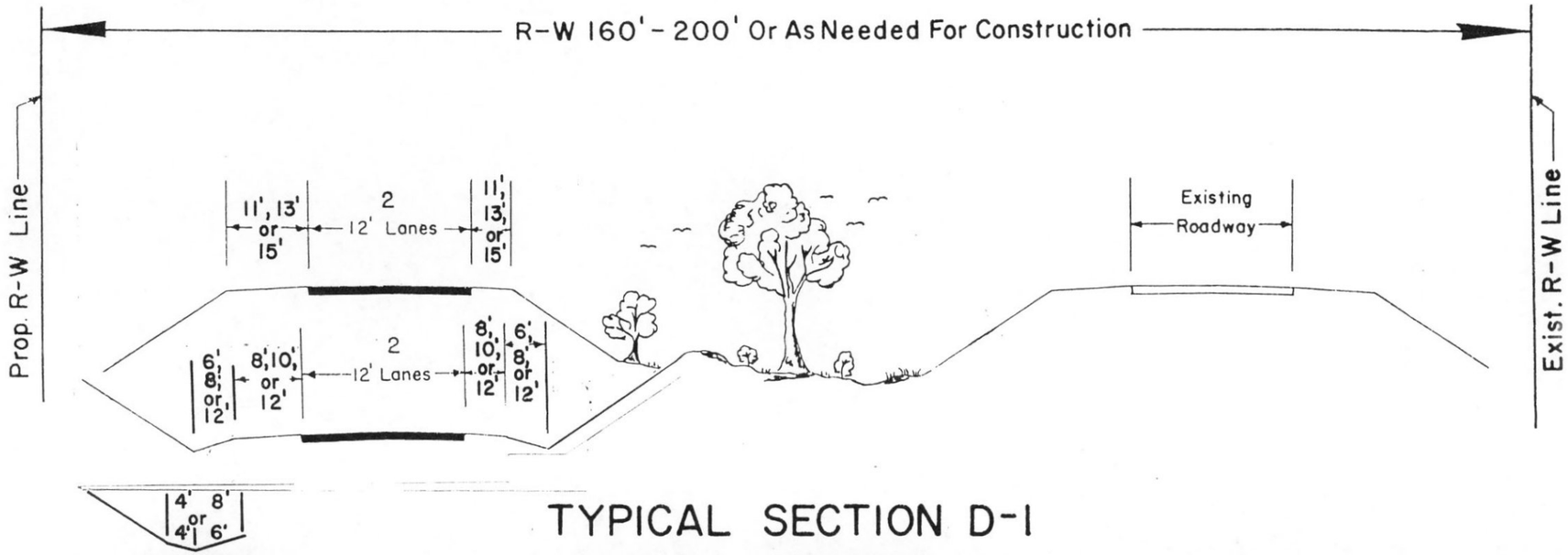
("None" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.





TYPICAL SECTION C-6
(NEW CONSTRUCTION)
("None" Access Control)
September 26, 2005

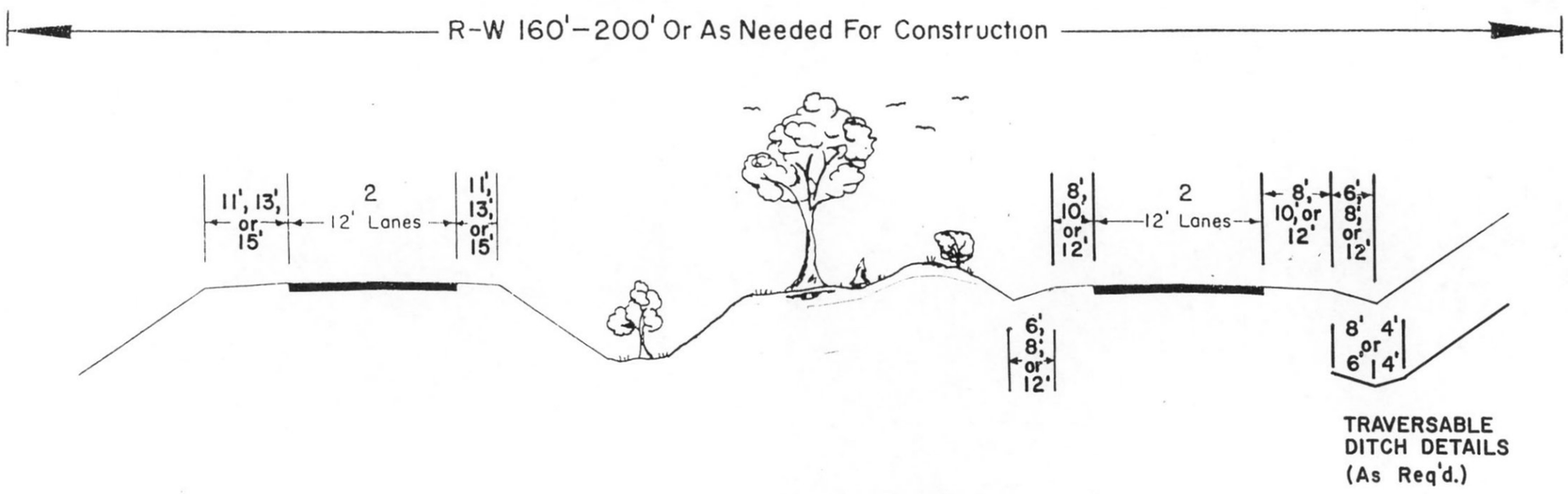


TYPICAL SECTION D-1

(PARALLEL CONSTRUCTION)

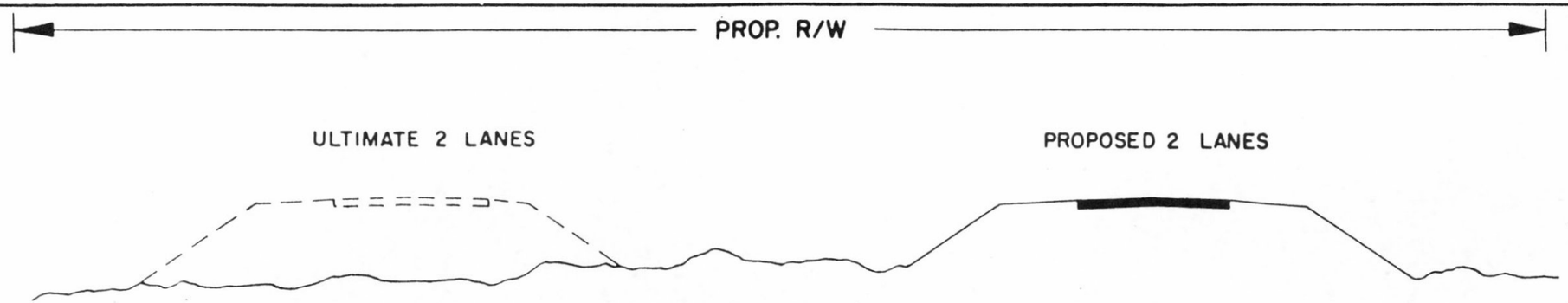
("None" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.



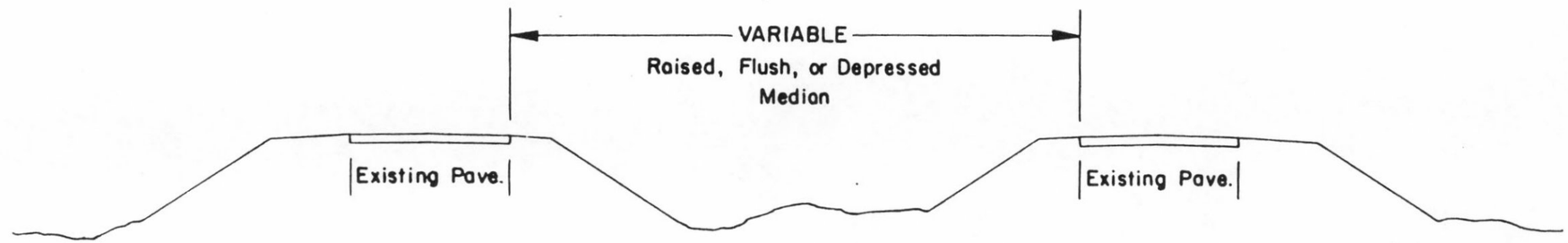
TYPICAL SECTION D-2

(NEW CONSTRUCTION)



TYPICAL SECTION E

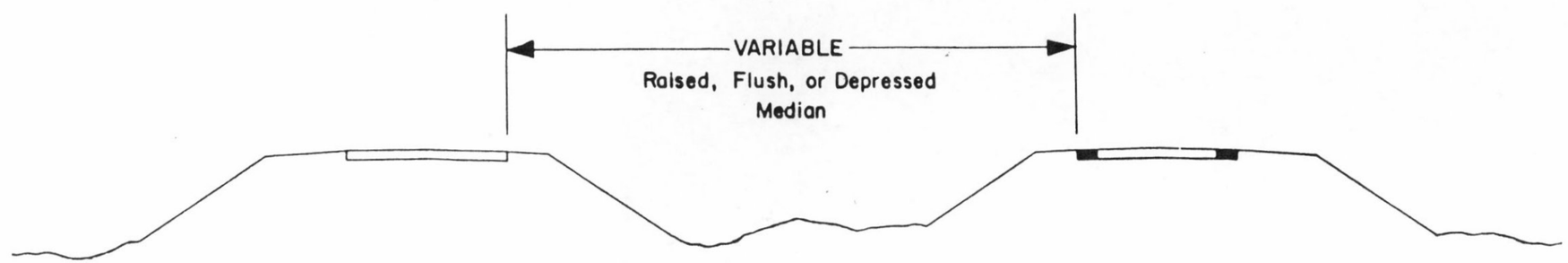
(PROPOSED TWO LANE ON FOUR LANE RIGHT OF WAY)



NO ADDITIONAL WORK REQUIRED

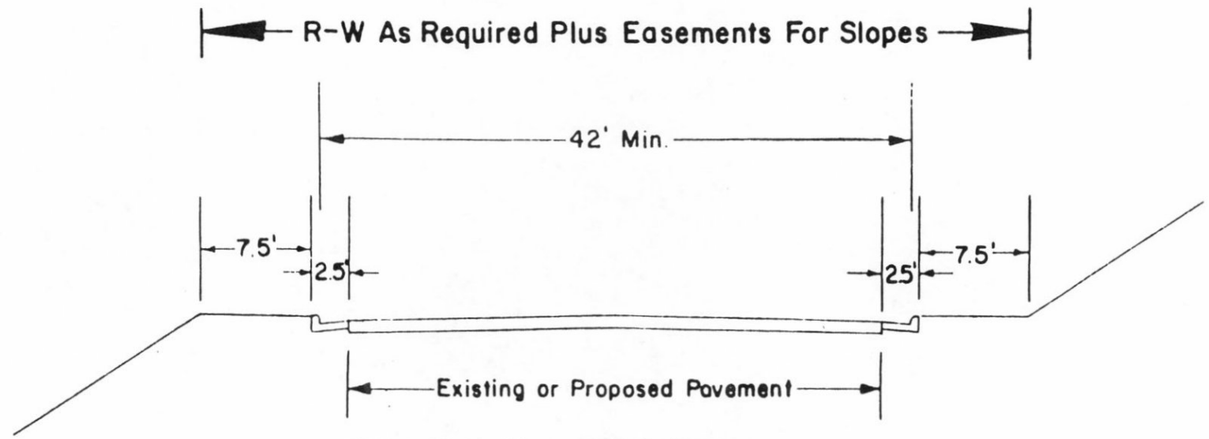
TYPICAL SECTION F-1

(ADEQUATE SECTION)
("None", "Partial" or "Full" Access Control)



Existing 4 Lane Facility – 2 Lanes
To Be Widened or Rebuilt Where Required

TYPICAL SECTION F-2

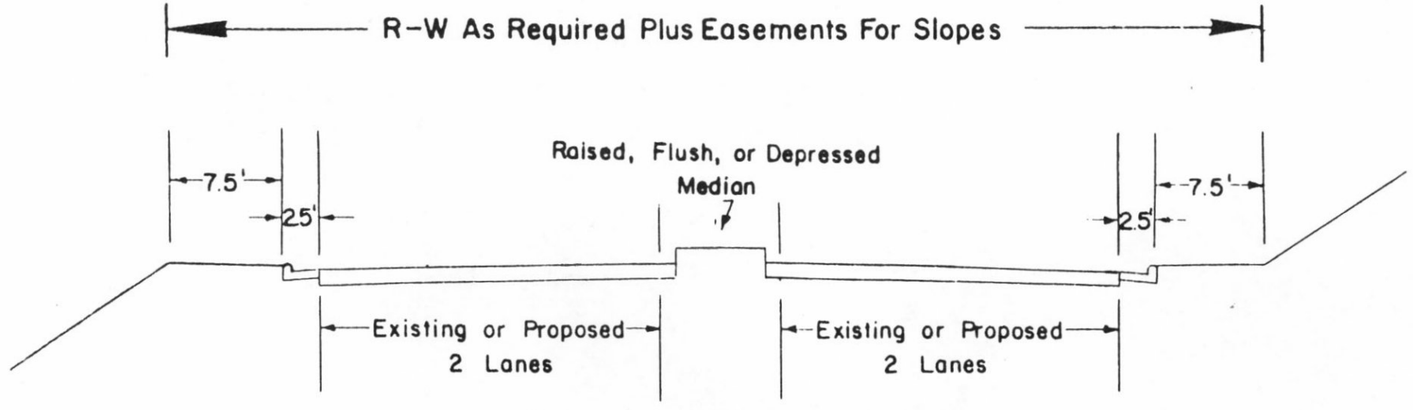


TYPICAL SECTION G-1

(URBAN - NO MEDIAN)

("None" or "Partial" Access Control)

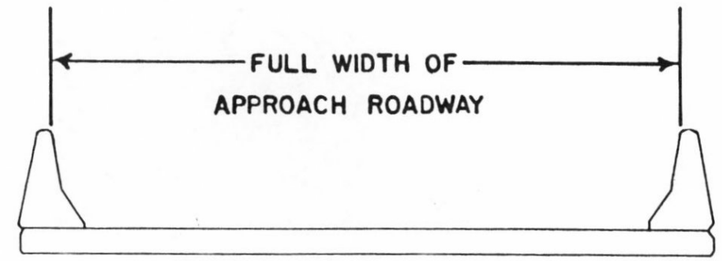
Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.



TYPICAL SECTION G-2

(URBAN WITH MEDIAN)

("None" Access Control)

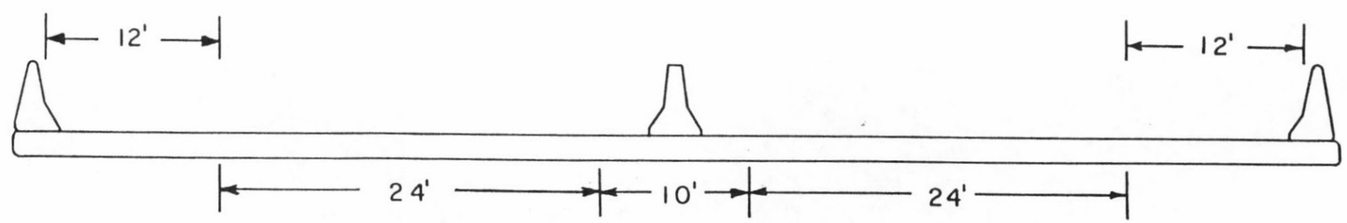


ONE WAY STRUCTURE

FACING DIRECTION OF TRAVEL

NEW STRUCTURE TYPICAL SECTION J-1

("None" Access Control)

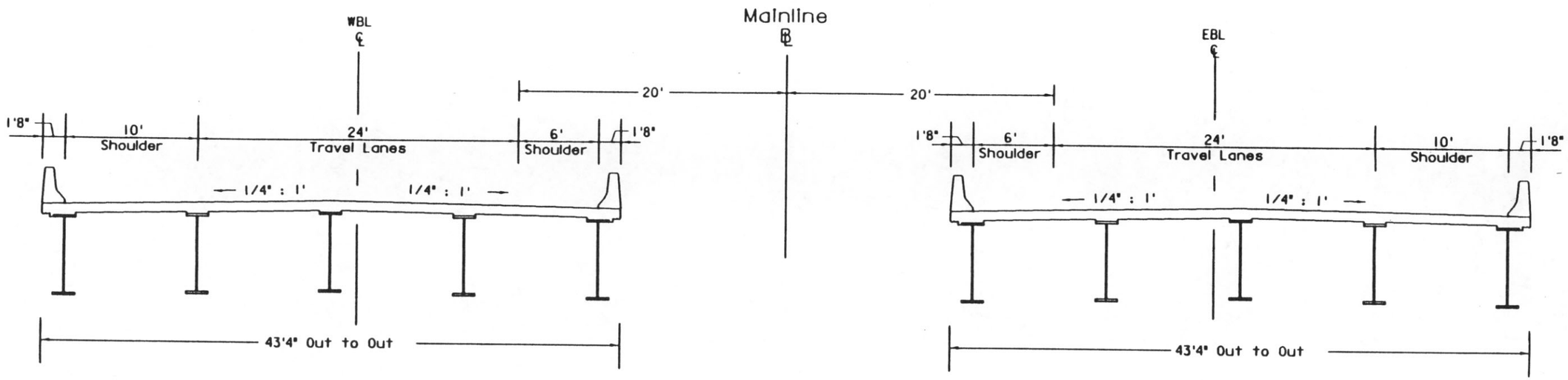


TWO WAY STRUCTURE

NEW STRUCTURE TYPICAL SECTION J-2

("Partial" Access Control)

EXPRESSWAY BRIDGES

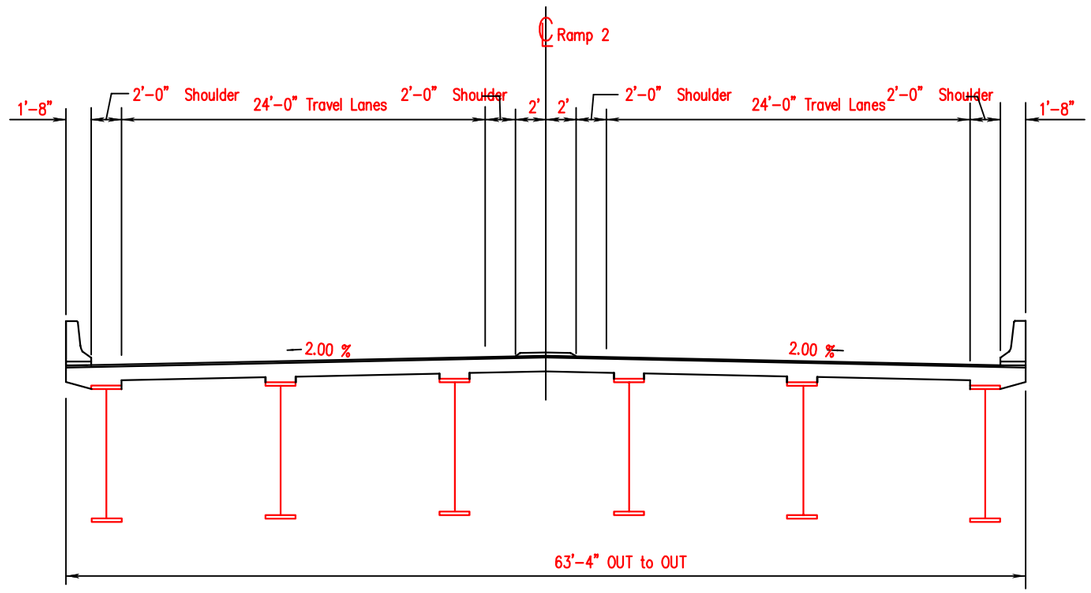


NEW STRUCTURES TYPICAL SECTION J-3

("Partial" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

RAMP 2 BRIDGE



NEW STRUCTURES TYPICAL SECTION J-3A
("Partial" Access Control)

Note: Lateral dimensions as shown hereon may vary as necessitated by individual project requirements.

J-3A

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 01.0.0**	**B 02.0.0**	**B 03.0.0**	**B 04.0.0**	**B 05.0.0**	**B 06.0.0**
LRS Milepoint: Beginning/Ending	**0.000/1.020**	**1.020/3.000**	**3.000/3.350**	**3.350/4.930**	**4.930/10.030**	**10.030/11.730**
Status	**NP**	**NP**	**NP**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	1	1.8	1.2	2.6	5.1	1.7
3. Class/Urban Code	U/2613	U/2613	U/2613	U/1060	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/169/09	51/169/09	51/169/09	51/169/09	51/169/09	51/169/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B1	2000000023/B1	2000000023/B1	2000000023/B1	2000000023/B1	2000000023/B1
5. Estimate Section/NHS Designation	2/NHS	2/NHS	2/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	70	65	60	50	60	55
7. Traffic:						
---- *a. ADT-Base Year (2010)*	23,600	24,300	28,700	12,260	12,900	11,940
---- *b. ADT-Year 2020*	26,900	29,900	36,000	15,240	15,800	15,740
---- *c. Design Year*	1,984	1,984	1,986	1,986	1,986	1,987
---- *d. ADT-Design Year*	19,600	19,600	20,670	7,520	8,650	8,160
---- *e. DHV-Design Year*	1,960	1,960	2,065	805	905	860
---- *f. % Truck Design Year(DHV)*	5	5	5	7	8	8
---- *g. % Truck Design Year(ADT)*	6	6	5	8	9	9
---- *h. Directional Distribution Factor*	60	60	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	170	80	145	280	250	250
12. Median Width(ft), prevailing	20	20	20	20	60	40
13. Status of Development(Figure 4)	np	np	np	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 07.0.0**	**B 08.0.0**	**B 09.0.0**	**B 10.0.0**	**B 10.1.0**	**B 11.0.0**
LRS Milepoint: Beginning/Ending	**11.730/15.530**	**15.530/20.850**	**20.850/24.970**	**24.970/26.670**	**26.670/27.310**	**27.310/28.210**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	3.8	3.7	4.1	1.7	1	0.9
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/169/09	51/169/09	51/169/09	51/105/09	51/105/09	51/105/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B1	2000000023/B2	2000000023/B2	2000000023/B2	2000000023/B2	2000000023/B2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	55	50	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	11,940	12,460	10,200	10,200	10,200	10,200
---- *b. ADT-Year 2020*	15,740	15,940	13,300	13,300	13,300	13,300
---- *c. Design Year*	1,988	1,987	1,986	1,992	1,992	1,992
---- *d. ADT-Design Year*	8,400	8,040	5,875	7,430	7,430	7,430
---- *e. DHV-Design Year*	880	865	678	800	800	800
---- *f. % Truck Design Year(DHV)*	8	9	8	8	8	8
---- *g. % Truck Design Year(ADT)*	9	10	9	9	9	9
---- *h. Directional Distribution Factor*	55	60	60	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	200	200	200	200	200	200
12. Median Width(ft), prevailing	20	20	50	60	40	60
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 12.0.0**	**B 13.0.0**	**B 14.0.0**	**B 14.1.0**	**B 14.2.0**	**B 14.3.0**
LRS Milepoint: Beginning/Ending	**28.210/29.410**	**29.410/29.810**	**29.810/32.220**	**32.220/32.720**	**32.720/33.120**	**33.120/33.820**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.9	0.4	2.5	0.5	0.4	0.7
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/105/09	51/195/09	51/195/09	51/195/09	51/195/09	51/195/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B2	2000000023/B2	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	10,200	9,900	9,900	9,900	9,900	12,200
---- *b. ADT-Year 2020*	13,300	12,500	12,500	12,500	12,500	16,100
---- *c. Design Year*	1,992	1,992	1,993	1,993	1,993	1,993
---- *d. ADT-Design Year*	7,430	7,500	8,040	8,040	8,040	7,655
---- *e. DHV-Design Year*	800	805	850	850	850	820
---- *f. % Truck Design Year(DHV)*	8	8	8	8	8	9
---- *g. % Truck Design Year(ADT)*	9	9	9	9	9	11
---- *h. Directional Distribution Factor*	55	60	60	60	60	57
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None	F-1/Full
11. Right-of-Way Width(ft), prevailing	200	250	250	250	250	250
12. Median Width(ft), prevailing	40	40	40	40	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 15.0.0**	**B 15.0.4**	**B 15.0.7**	**B 15.1.0**	**B 15.2.0**	**B 16.0.0**
LRS Milepoint: Beginning/Ending	**33.820/34.890**	**34.890/37.490**	**37.490/38.190**	**38.190/40.190**	**40.190/40.780**	**40.780/41.780**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.8	2.6	0.7	2	0.9	1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	U/1810
4. Location:						
---- *a. FIPS State/County/Congressional*	51/195/09	51/195/09	51/195/09	51/195/09	51/195/09	51/195/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	12,200	15,200	15,200	15,220	15,400	15,400
---- *b. ADT-Year 2020*	16,100	20,100	20,100	20,100	18,800	18,800
---- *c. Design Year*	2,000	2,000	2,000	2,000	2,000	2,000
---- *d. ADT-Design Year*	9,150	12,570	12,570	12,570	13,155	13,155
---- *e. DHV-Design Year*	940	1,255	1,255	1,255	1,315	1,315
---- *f. % Truck Design Year(DHV)*	9	12	12	12	10	10
---- *g. % Truck Design Year(ADT)*	11	14	14	14	12	12
---- *h. Directional Distribution Factor*	57	57	57	57	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/Full	C-2/Full	A-2/Full	A-2/Full	C-1/Full	C-1/Full
11. Right-of-Way Width(ft), prevailing	350	350	400	400	400	500
12. Median Width(ft), prevailing	40	20	20	20	20	20
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 16.1.0**	**B 16.2.0**	**B 16.3.0**	**B 16.4.0**	**B 17.0.0**	**B 17.1.0**
LRS Milepoint: Beginning/Ending	**41.780/41.880**	**41.880/43.300**	**43.300/43.660**	**43.660/44.070**	**44.070/44.770**	**44.770/45.270**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.1	1.4	0.4	0.4	0.7	0.5
3. Class/Urban Code	U/1810	U/1810	U/1810	U/1810	U/1810	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/720/09	51/720/09	51/720/09	51/720/09	51/720/09	51/195/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3	2000000023/B3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	16,200	16,200	16,200	22,380	22,380	22,380
---- *b. ADT-Year 2020*	20,800	20,800	20,800	28,000	28,000	28,000
---- *c. Design Year*	2,017	2,017	2,017	2,000	2,000	2,000
---- *d. ADT-Design Year*	21,800	21,800	21,800	22,190	22,190	22,190
---- *e. DHV-Design Year*	2,180	2,180	2,180	2,220	2,220	2,220
---- *f. % Truck Design Year(DHV)*	12	12	12	10	10	10
---- *g. % Truck Design Year(ADT)*	14	14	14	11	11	11
---- *h. Directional Distribution Factor*	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	C-1/Full	C-2/Full	C-2/Full	F-1/Full	F-1/Full	F-1/Full
11. Right-of-Way Width(ft), prevailing	400	400	400	400	400	300
12. Median Width(ft), prevailing	20	20	20	20	20	20
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 18.0.0**	**B 18.1.0**	**B 19.0.0**	**B 20.0.0**	**B 21.0.0**	**B 22.0.0**
LRS Milepoint: Beginning/Ending	**45.270/45.410**	**45.410/46.110**	**46.110/47.270**	**47.270/51.160**	**51.160/55.450**	**55.450/57.980**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.2	0.7	1.1	3.9	3.6	3.1
3. Class/Urban Code	R/0	R/0	U/2660	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/195/09	51/195/09	51/195/09	51/195/09	51/195/09	51/195/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B3	2000000023/B4	2000000023/B4	2000000023/B4	2000000023/B4	2000000023/B4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	50	50	50	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	23,200	23,200	16,380	13,580	13,900	8,230
---- *b. ADT-Year 2020*	30,800	30,800	21,800	18,600	18,800	10,200
---- *c. Design Year*	1,987	1,987	1,987	1,987	1,987	1,986
---- *d. ADT-Design Year*	15,250	15,250	8,110	10,590	10,820	5,555
---- *e. DHV-Design Year*	1,525	1,525	860	1,060	1,105	655
---- *f. % Truck Design Year(DHV)*	10	10	16	12	12	14
---- *g. % Truck Design Year(ADT)*	11	11	18	14	14	16
---- *h. Directional Distribution Factor*	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/Partial	F-1/Partial	F-1/Partial	F-1/None	F-1/None	F-1/Partial
11. Right-of-Way Width(ft), prevailing	280	280	280	160	200	250
12. Median Width(ft), prevailing	20	20	20	10	45	20
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: B

Section ID	**B 23.0.0**	**B 24.0.0**	**B 24.1.0**
LRS Milepoint: Beginning/Ending	**57.980/59.140**	**59.140/60.840**	**60.840/61.160**
Status	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20
2. Section Length(Miles)	1.3	1.7	0.4
3. Class/Urban Code	R/0	R/0	R/0
4. Location:			
---- *a. FIPS State/County/Congressional*	51/195/09	51/195/09	51/195/09
---- *b. HPMS Route/Subroute*	000US00023/00	000US00023/00	000US00023/00
---- *c. HPMS Signed Route/Strip Map #*	2000000023/B4	2000000023/B4	2000000023/B4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	50
7. Traffic:			
---- *a. ADT-Base Year (2010)*	7,370	7,370	7,370
---- *b. ADT-Year 2020*	8,770	8,770	8,770
---- *c. Design Year*	1,997	1,997	2,010
---- *d. ADT-Design Year*	6,120	6,120	8,500
---- *e. DHV-Design Year*	695	695	920
---- *f. % Truck Design Year(DHV)*	10	10	10
---- *g. % Truck Design Year(ADT)*	12	12	12
---- *h. Directional Distribution Factor*	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/Partial	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	400	400	400
12. Median Width(ft), prevailing	20	20	20
13. Status of Development(Figure 4)	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:			
---- *a. Location*	0	0	0
---- *b. Design*	0	0	0
15. Right-of-Way:			
---- *a. Acquisition*	0	0	0
---- *b. Relocation*	0	0	0
16. Utility Adjustments	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0
19. Railroad Grade Seperations	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0
21. Interchanges	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0
23. Traffic Control	0	0	0
24. Environmental Mitigation	0	0	0
25. Roadside Improvements:			
---- *a. Landscape Planting*	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0
26. All Other Items	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

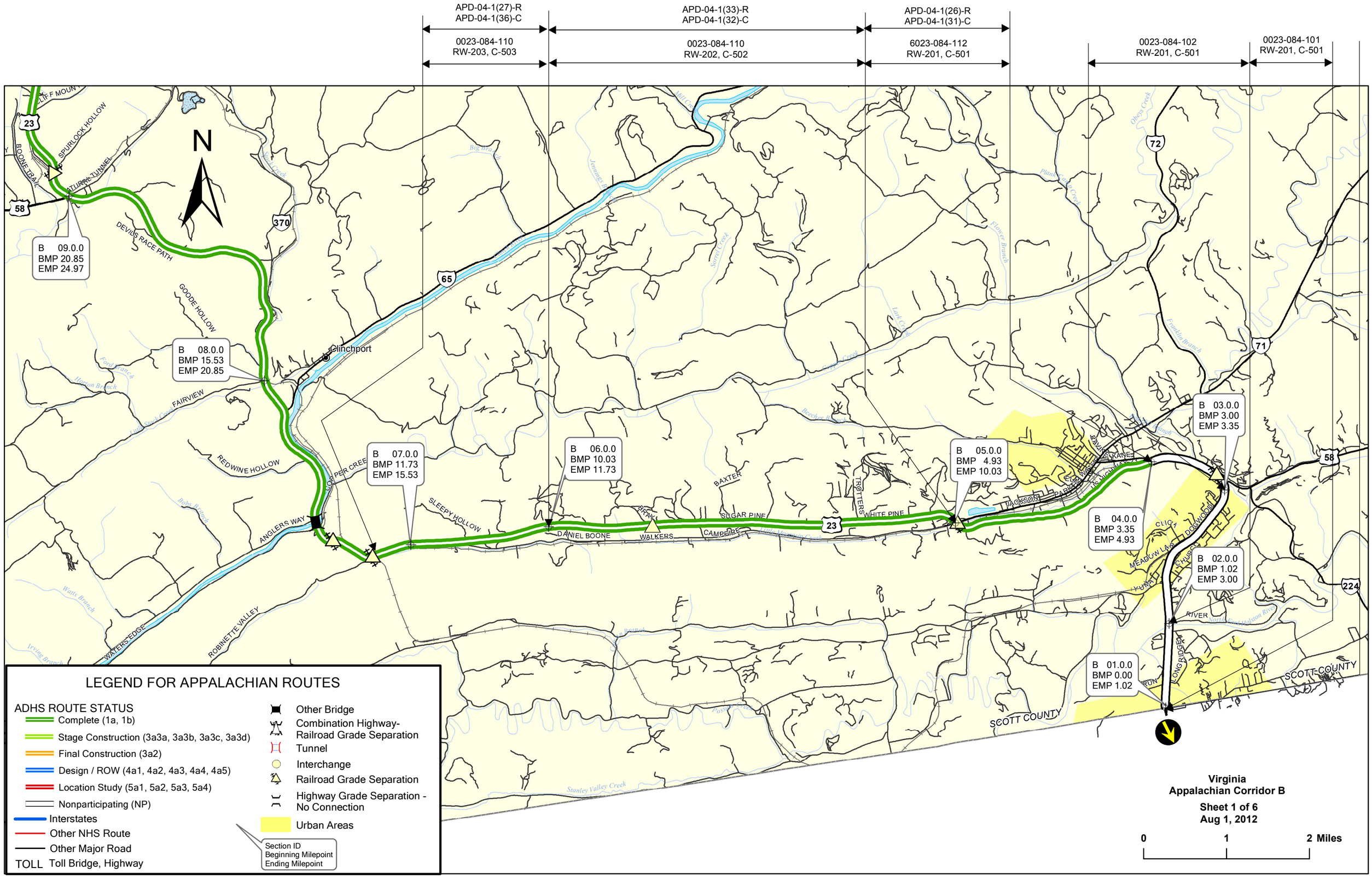
State: VA

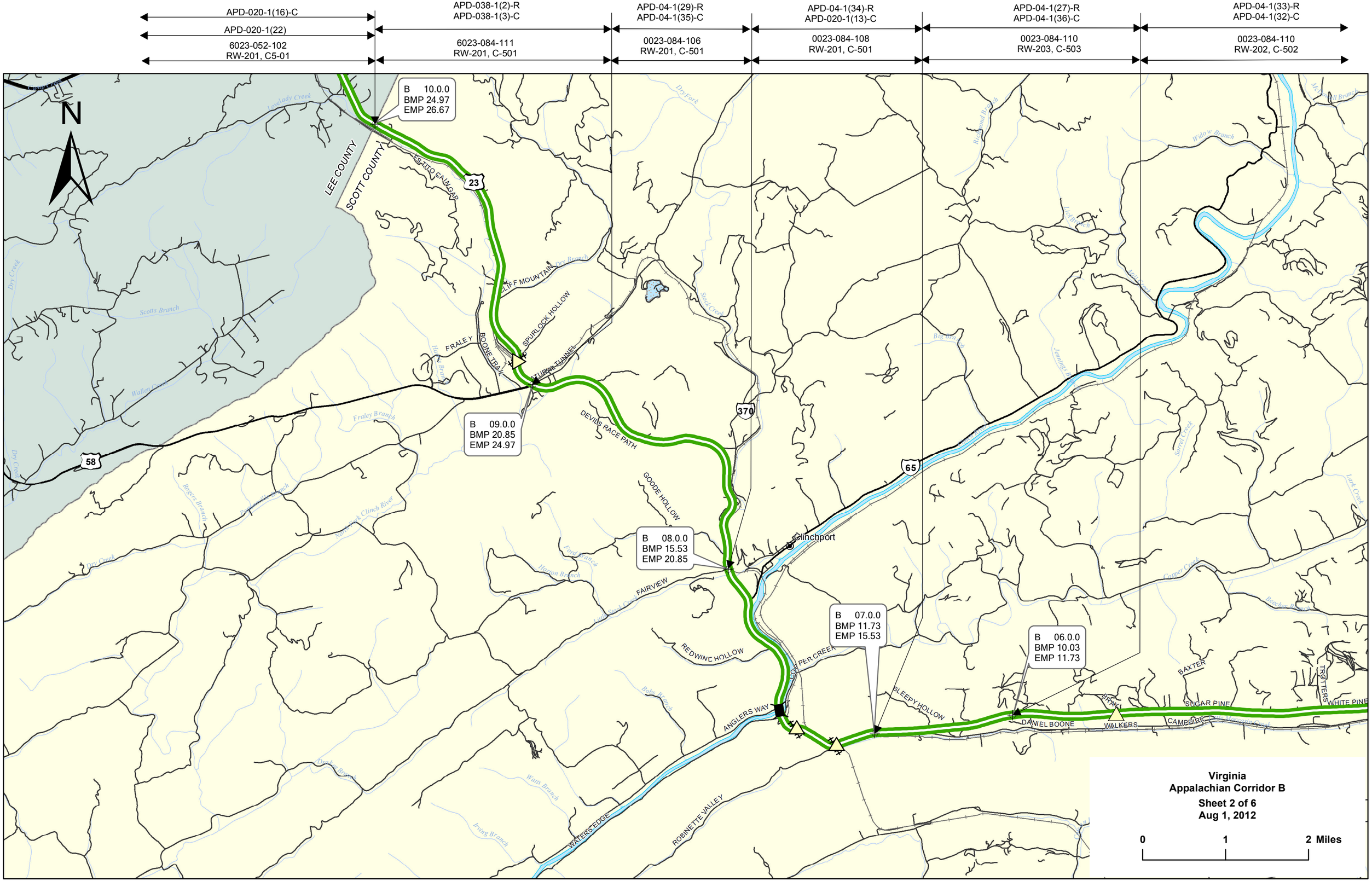
ADHS Corridor: B

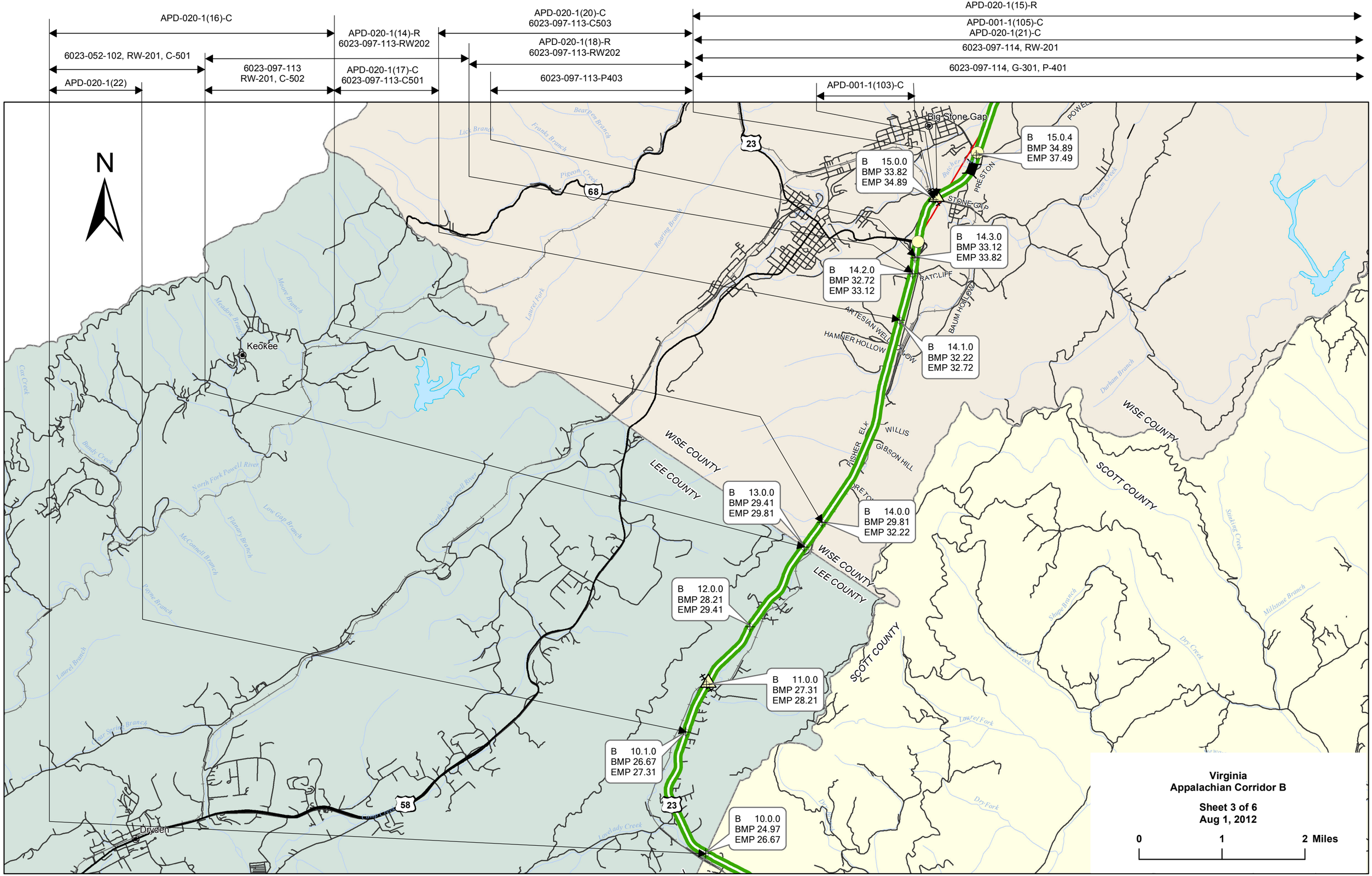
Section ID **LRS Milepoint**	**Corridor Total**	**Rural Subtotal**	**Urban Subtotal**
1. Finance Code			
2. Section Length(Miles)	61.50	49.80	11.70
3. Class/Urban Code			
4. Location:			
---- a. FIPS State/County/Congressional			
---- b. HPMS Route/Subroute			
---- c. HPMS Signed Route/Strip Map #			
5. Estimate Section/NHS Designation			
6. Design Speed(mph)			
7. Traffic:			
---- a. ADT-Base Year (2010)			
---- b. ADT-Year 2020			
---- c. Design Year			
---- d. ADT-Design Year			
---- e. DHV-Design Year			
---- f. % Truck Design Year(DHV)			
---- g. % Truck Design Year(ADT)			
---- h. Directional Distribution Factor			
8. Number of Lanes to be Constructed this Estimate			
9. Ultimate Number of Through Traffic Lanes			
10. Typical X-Section of Reference/Access Control			
11. Right-of-Way Width(ft), prevailing			
12. Median Width(ft), prevailing			
13. Status of Development(Figure 4)			

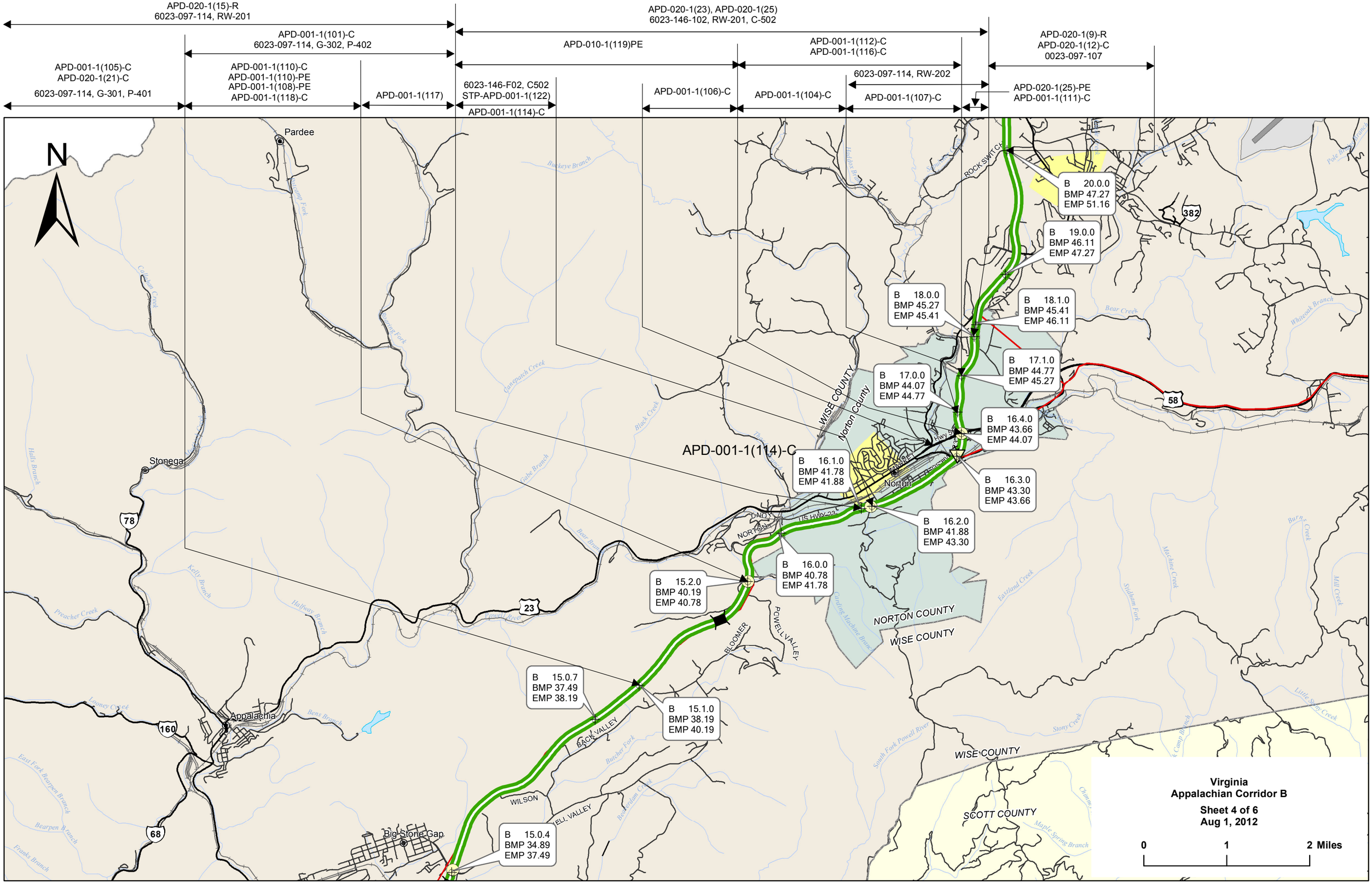
Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:			
---- a. Location			
---- b. Design			
15. Right-of-Way:			
---- a. Acquisition			
---- b. Relocation			
16. Utility Adjustments			
17. Erosion Control/Clear/Grade/Drain/Minor Structure			
18. Subbase, Base, Surfacing, Shoulders			
19. Railroad Grade Seperations			
20. Highway Grade Seperations without Ramps			
21. Interchanges			
22. Other Bridges, Tunnels, and Walls			
23. Traffic Control			
24. Environmental Mitigation			
25. Roadside Improvements:			
---- a. Landscape Planting			
---- b. Rest Area, Overlooks			
26. All Other Items			
27. Subtotal(lines 17 thru 26)			
28. Construction Engineering(10.00000000% of line 27)			
29. Total Cost of Construction(lines 27 & 28)			
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			


APD-04-1(27)-R
APD-04-1(36)-C
0023-084-110
RW-203, C-503
APD-04-1(33)-R
APD-04-1(32)-C
0023-084-110
RW-202, C-502
APD-04-1(26)-R
APD-04-1(31)-C
6023-084-112
RW-201, C-501
0023-084-102
RW-201, C-501
0023-084-101
RW-201, C-501
N
B 09.0.0
BMP 20.85
EMP 24.97
B 08.0.0
BMP 15.53
EMP 20.85
B 07.0.0
BMP 11.73
EMP 15.53
B 06.0.0
BMP 10.03
EMP 11.73
B 05.0.0
BMP 4.93
EMP 10.03
B 04.0.0
BMP 3.35
EMP 4.93
B 03.0.0
BMP 3.00
EMP 3.35
B 02.0.0
BMP 1.02
EMP 3.00
B 01.0.0
BMP 0.00
EMP 1.02
Clinchport
SPURLOCK HOLLOW
BOONE TRAIL
TUNNEL
DEVILS RACE PATH
GOODE HOLLOW
FAIRVIEW
REDWINE HOLLOW
COPPER CREEK
ANGLERS WAY
WATERS EDGE
ROBINETTE VALLEY
SLEEPY HOLLOW
DANIEL BOONE
WALKERS
CAMPFIRE
SUGAR PINE
BAXTER
TROTTERS
WHITE PINE
JACKSON
PARK
KANE
MEADOW LANE
DOGWOOD
RIVER
LONG RIDGE
SCOTT COUNTY
23
58
370
65
72
71
224
Big Branch
Jennings Branch
Sorrel Creek
Flower Branch
Lick Creek
Beecher Branch
Oheys Creek
Franklin Branch
Ford Branch
Hanon Branch
Little Stony Creek
Bobs Branch
Watts Branch
Irvine Branch
Stanley Valley Creek
Little Moccasin Creek
Stony Creek
Mill Creek
Slate Creek
Plum Creek
Clinchfield Railroad
Virginia
Appalachian Corridor B
Sheet 1 of 6
Aug 1, 2012
0
1
2 Miles
LEGEND FOR APPALACHIAN ROUTES
ADHS ROUTE STATUS
Complete (1a, 1b)
Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)
Final Construction (3a2)
Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)
Location Study (5a1, 5a2, 5a3, 5a4)
Nonparticipating (NP)
Interstates
Other NHS Route
Other Major Road
TOLL Toll Bridge, Highway
Other Bridge
Combination Highway-Railroad Grade Separation
Tunnel
Interchange
Railroad Grade Separation
Highway Grade Separation - No Connection
Urban Areas
Section ID
Beginning Milepoint
Ending Milepoint


APD-020-1(16)-C
APD-020-1(22)
6023-052-102
RW-201, C5-01
APD-038-1(2)-R
APD-038-1(3)-C
6023-084-111
RW-201, C-501
APD-04-1(29)-R
APD-04-1(35)-C
0023-084-106
RW-201, C-501
APD-04-1(34)-R
APD-020-1(13)-C
0023-084-108
RW-201, C-501
APD-04-1(27)-R
APD-04-1(36)-C
0023-084-110
RW-203, C-503
APD-04-1(33)-R
APD-04-1(32)-C
0023-084-110
RW-202, C-502
N
LEE COUNTY
SCOTT COUNTY
B 10.0.0
BMP 24.97
EMP 26.67
B 09.0.0
BMP 20.85
EMP 24.97
B 08.0.0
BMP 15.53
EMP 20.85
B 07.0.0
BMP 11.73
EMP 15.53
B 06.0.0
BMP 10.03
EMP 11.73
23
58
370
65
Clinchport
ESTILL GAP
CLIFF MOUNTAIN
SPURLOCK HOLLOW
FRALEY
BOONE TRAIL
TURNER TUNNEL
DEVILS RACE PATH
GOODE HOLLOW
FAIRVIEW
REDWING HOLLOW
COPPER CREEK
ANGLERS WAY
BLEEPY HOLLOW
DANIEL BOONE
WALKERS
CAMPFIRE
BRANCH
SUGAR PINE
BAXTER
TROTTERS
WHITE PINE
WATERS EDGE
ROBINETTE VALLEY
Virginia
Appalachian Corridor B
Sheet 2 of 6
Aug 1, 2012
0
1
2 Miles


APD-020-1(16)-C
APD-020-1(14)-R
6023-097-113-RW202
APD-020-1(20)-C
6023-097-113-C503
APD-020-1(15)-R
APD-001-1(105)-C
APD-020-1(21)-C
6023-052-102, RW-201, C-501
6023-097-113
RW-201, C-502
APD-020-1(17)-C
6023-097-113-C501
APD-020-1(18)-R
6023-097-113-RW202
6023-097-114, RW-201
6023-097-114, G-301, P-401
APD-020-1(22)
6023-097-113-P403
APD-001-1(103)-C
N
Big Stone Gap
Keokee
Dryden
23
68
58
WISE COUNTY
LEE COUNTY
SCOTT COUNTY
PRESTON
STONE GAP
RATCLIFF
ARTESIAN WELL
HAMNER HOLLOW
BAUM HOLLOW
WILLIS
GIBSON HILL
B 15.0.4
BMP 34.89
EMP 37.49
B 15.0.0
BMP 33.82
EMP 34.89
B 14.3.0
BMP 33.12
EMP 33.82
B 14.2.0
BMP 32.72
EMP 33.12
B 14.1.0
BMP 32.22
EMP 32.72
B 14.0.0
BMP 29.81
EMP 32.22
B 13.0.0
BMP 29.41
EMP 29.81
B 12.0.0
BMP 28.21
EMP 29.41
B 11.0.0
BMP 27.31
EMP 28.21
B 10.1.0
BMP 26.67
EMP 27.31
B 10.0.0
BMP 24.97
EMP 26.67
Virginia
Appalachian Corridor B
Sheet 3 of 6
Aug 1, 2012
0
1
2 Miles

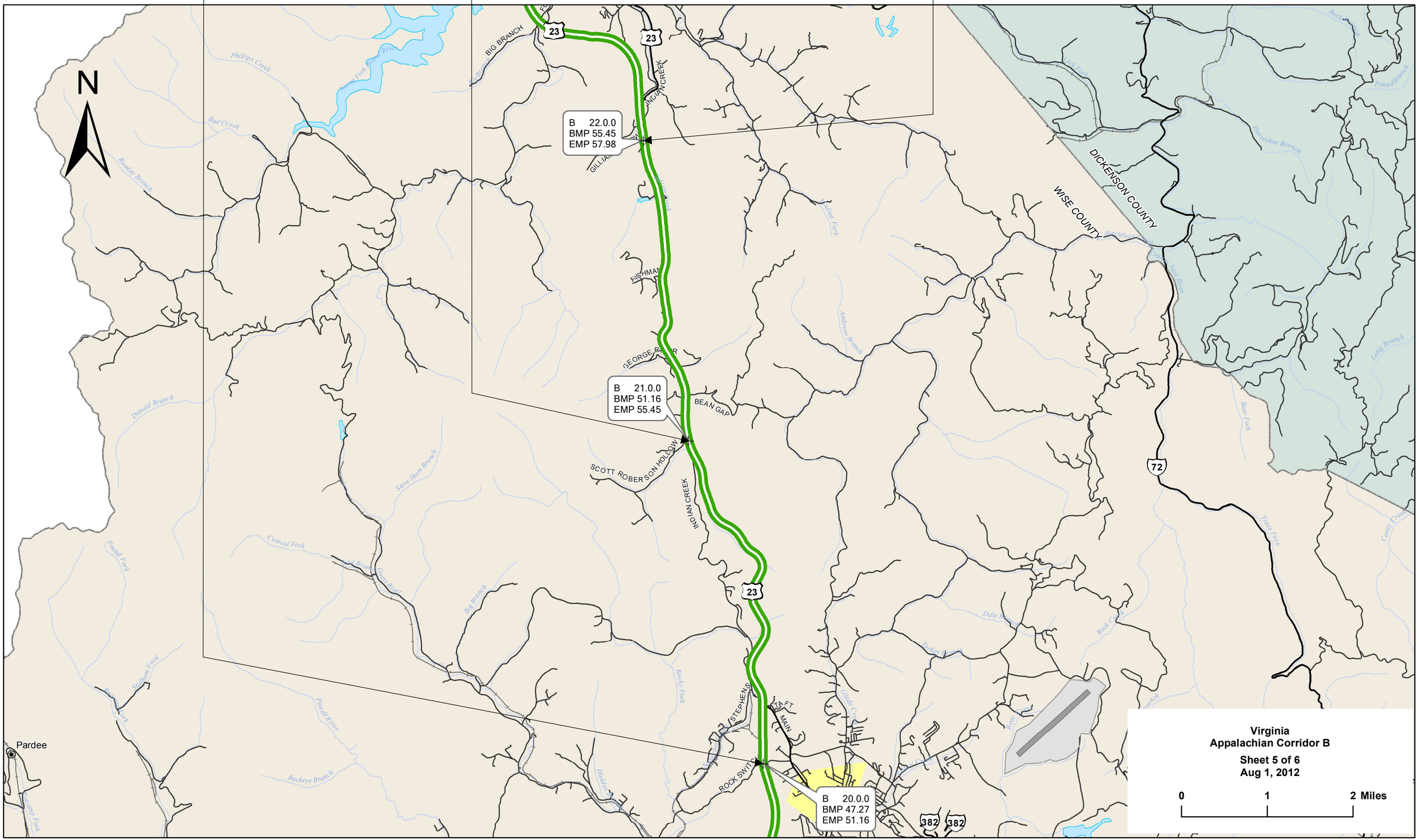

APD-020-1(15)-R
6023-097-114, RW-201
APD-001-1(101)-C
6023-097-114, G-302, P-402
APD-020-1(23), APD-020-1(25)
6023-146-102, RW-201, C-502
APD-010-1(119)PE
APD-001-1(112)-C
APD-001-1(116)-C
APD-020-1(9)-R
APD-020-1(12)-C
0023-097-107
APD-001-1(105)-C
APD-020-1(21)-C
6023-097-114, G-301, P-401
APD-001-1(110)-C
APD-001-1(110)-PE
APD-001-1(108)-PE
APD-001-1(118)-C
APD-001-1(117)
6023-146-F02, C502
STP-APD-001-1(122)
APD-001-1(114)-C
APD-001-1(106)-C
APD-001-1(104)-C
6023-097-114, RW-202
APD-001-1(107)-C
APD-020-1(25)-PE
APD-001-1(111)-C
N
Pardee
Stonega
Appalachia
Big Stone Gap
Norton
APD-001-1(114)-C
B 20.0.0
BMP 47.27
EMP 51.16
B 19.0.0
BMP 46.11
EMP 47.27
B 18.0.0
BMP 45.27
EMP 45.41
B 18.1.0
BMP 45.41
EMP 46.11
B 17.1.0
BMP 44.77
EMP 45.27
B 17.0.0
BMP 44.07
EMP 44.77
B 16.4.0
BMP 43.66
EMP 44.07
B 16.1.0
BMP 41.78
EMP 41.88
B 16.3.0
BMP 43.30
EMP 43.66
B 16.2.0
BMP 41.88
EMP 43.30
B 16.0.0
BMP 40.78
EMP 41.78
B 15.2.0
BMP 40.19
EMP 40.78
B 15.0.7
BMP 37.49
EMP 38.19
B 15.1.0
BMP 38.19
EMP 40.19
B 15.0.4
BMP 34.89
EMP 37.49
WISE COUNTY
Norton County
NORTON COUNTY
WISE COUNTY
SCOTT COUNTY
ROCK SWIT Ch
BLOOMER
POWELL VALLEY
BACK VALLEY
WILSON
US HWY 23
Hwy 58
382
58
23
78
160
68
Virginia
Appalachian Corridor B
Sheet 4 of 6
Aug 1, 2012
0
1
2 Miles

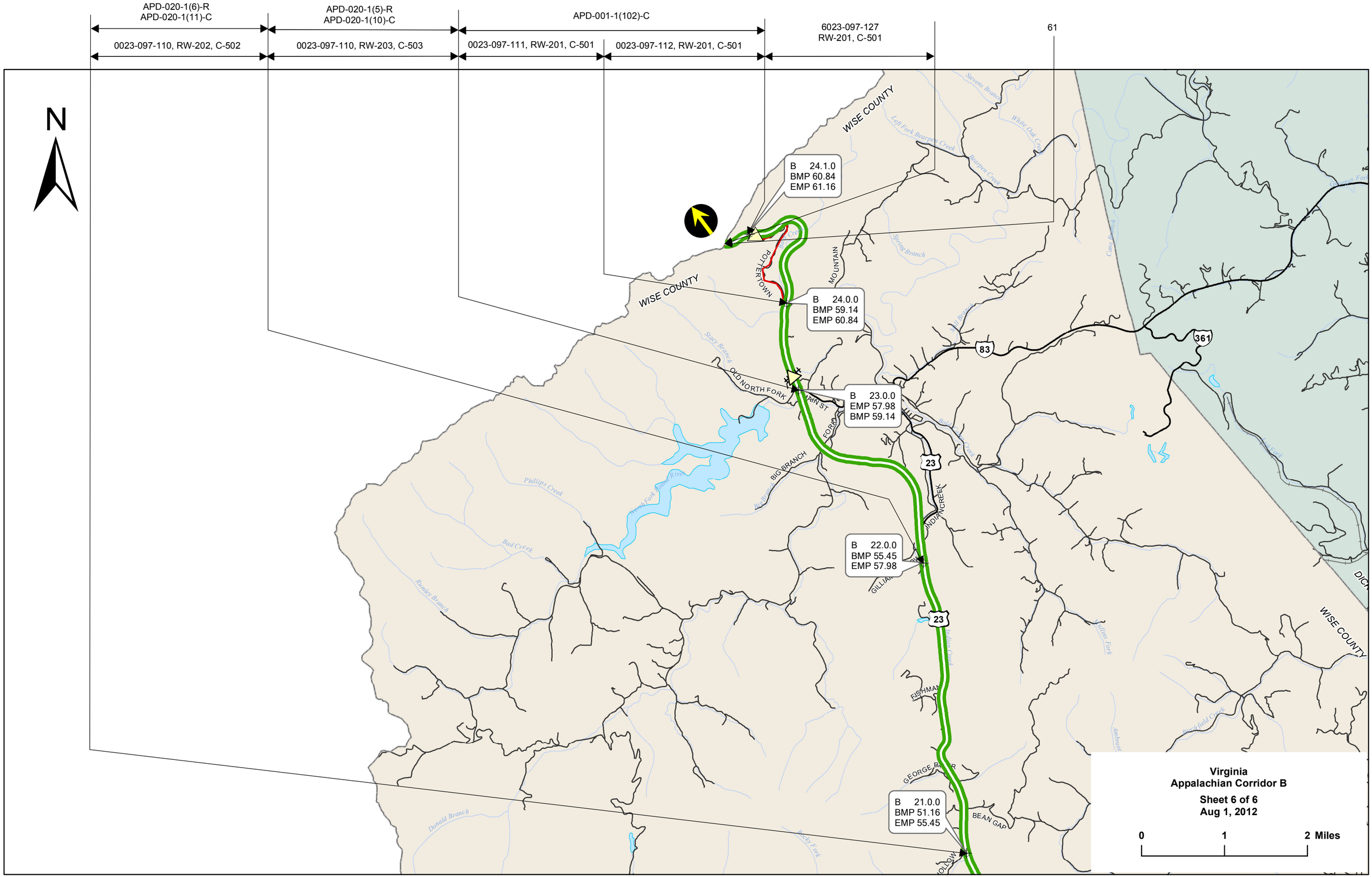
APD-020-1(9)-R
APD-020-1(12)-C
0023-097-107
RW-201, C-501

APD-020-1(4)-R
APD-020-1(8)-C
0023-097-110
RW-201, C-501

APD-020-1(6)-R
APD-020-1(11)-C
0023-097-110
RW-202, C-502

APD-020-1(5)-R
APD-020-1(10)-C
0023-097-110
RW-203, C-503




APD-020-1(6)-R
APD-020-1(11)-C
APD-020-1(5)-R
APD-020-1(10)-C
APD-001-1(102)-C
6023-097-127
RW-201, C-501
61
0023-097-110, RW-202, C-502
0023-097-110, RW-203, C-503
0023-097-111, RW-201, C-501
0023-097-112, RW-201, C-501
N
B 24.1.0
BMP 60.84
EMP 61.16
B 24.0.0
BMP 59.14
EMP 60.84
B 23.0.0
EMP 57.98
BMP 59.14
B 22.0.0
BMP 55.45
EMP 57.98
B 21.0.0
BMP 51.16
EMP 55.45
WISE COUNTY
POLLYTOWN
MOUNTAIN
OLD NORTH FORK
BIG BRANCH
INDIAN CREEK
GILLIAM
FISHMAN
GEORGE RIVER
BEAN GAP
Stevens Branch
Left Fork Bearpen Creek
Bearpen Creek
White Oak Creek
Spring Branch
Stacy Branch
Phillips Creek
North Fork Powell River
Bad Creek
Rumley Branch
Donald Branch
Becky Fork
Jollins Fork
Ambrose
Brockfield Creek
83
361
23
Virginia
Appalachian Corridor B
Sheet 6 of 6
Aug 1, 2012
0
1
2 Miles

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: H

Section ID	**H 01.0.0**	**H 02.0.0**
LRS Milepoint: Beginning/Ending	**0.000/5.530**	**5.530/14.420**
Status	**Location Study**	**Location Study**
1. Finance Code	22	22
2. Section Length(Miles)	5.4	9
3. Class/Urban Code	R/0	R/0
4. Location:		
---- *a. FIPS State/County/Congressional*	51/069/10	51/171/06
---- *b. HPMS Route/Subroute*	000SR00055/00	000SR00055/00
---- *c. HPMS Signed Route/Strip Map #*	2000000055/H1	2000000055/H1
5. Estimate Section/NHS Designation	1/NHS	1/NHS
6. Design Speed(mph)	50	40
7. Traffic:		
---- *a. ADT-Base Year (2010)*	4,850	5,250
---- *b. ADT-Year 2020*	5,750	6,150
---- *c. Design Year*	2,025	2,025
---- *d. ADT-Design Year*	6,200	6,600
---- *e. DHV-Design Year*	700	730
---- *f. % Truck Design Year(DHV)*	12	12
---- *g. % Truck Design Year(ADT)*	15	15
---- *h. Directional Distribution Factor*	60	60
8. Number of Lanes to be Constructed this Estimate	2	2
9. Ultimate Number of Through Traffic Lanes	4	4
10. Typical X-Section of Reference/Access Control	A-1/None	D-1/None
11. Right-of-Way Width(ft), prevailing	140	174
12. Median Width(ft), prevailing	4	40
13. Status of Development(Figure 4)	5a4	5a4

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:		
---- *a. Location*	1,383	2,332
---- *b. Design*	2,766	4,664
15. Right-of-Way:		
---- *a. Acquisition*	4,121	30,212
---- *b. Relocation*	725	7,325
16. Utility Adjustments	1,500	9,000
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0
19. Railroad Grade Seperations	0	0
20. Highway Grade Seperations without Ramps	0	0
21. Interchanges	0	0
22. Other Bridges, Tunnels, and Walls	0	0
23. Traffic Control	0	0
24. Environmental Mitigation	0	0
25. Roadside Improvements:		
---- *a. Landscape Planting*	0	0
---- *b. Rest Area, Overlooks*	0	0
26. All Other Items	33,200	28,342
27. Subtotal(lines 17 thru 26)	**33,200**	**28,342**
28. Construction Engineering(10.00000000% of line 27)	**3,320**	**2,834**
29. Total Cost of Construction(lines 27 & 28)	**36,520**	**31,176**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**49,366**	**88,945**

2012 Appalachian Developement Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA

ADHS Corridor: H

Section ID **LRS Milepoint**	**Corridor Total**	**Rural Subtotal**	**Urban Subtotal**
1. Finance Code			
2. Section Length(Miles)	14.40	14.40	0.00
3. Class/Urban Code			
4. Location:			
---- a. FIPS State/County/Congressional			
---- b. HPMS Route/Subroute			
---- c. HPMS Signed Route/Strip Map #			
5. Estimate Section/NHS Designation			
6. Design Speed(mph)			
7. Traffic:			
---- a. ADT-Base Year (2010)			
---- b. ADT-Year 2020			
---- c. Design Year			
---- d. ADT-Design Year			
---- e. DHV-Design Year			
---- f. % Truck Design Year(DHV)			
---- g. % Truck Design Year(ADT)			
---- h. Directional Distribution Factor			
8. Number of Lanes to be Constructed this Estimate			
9. Ultimate Number of Through Traffic Lanes			
10. Typical X-Section of Reference/Access Control			
11. Right-of-Way Width(ft), prevailing			
12. Median Width(ft), prevailing			
13. Status of Development(Figure 4)			
Estimated Cost($1,000) per Work Classification			
14. Preliminary Engineering:			
---- a. Location	3,715	3,715	
---- b. Design	7,430	7,430	
15. Right-of-Way:			
---- a. Acquisition	34,333	34,333	
---- b. Relocation	8,050	8,050	
16. Utility Adjustments	10,500	10,500	
17. Erosion Control/Clear/Grade/Drain/Minor Structure			
18. Subbase, Base, Surfacing, Shoulders			
19. Railroad Grade Seperations			
20. Highway Grade Seperations without Ramps			
21. Interchanges			
22. Other Bridges, Tunnels, and Walls			
23. Traffic Control			
24. Environmental Mitigation			
25. Roadside Improvements:			
---- a. Landscape Planting			
---- b. Rest Area, Overlooks			
26. All Other Items	61,542	61,542	
27. Subtotal(lines 17 thru 26)	61,542	61,542	
28. Construction Engineering(10.00000000% of line 27)	6,154	6,154	
29. Total Cost of Construction(lines 27 & 28)	67,696	67,696	
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	138,310	138,310	

APD-484(30)EIS
APD-484(31)PE
APD-900(02)PE

14

N

FREDERICK COUNTY
SHENANDOAH COUNTY
WARDENSVILLE GR
PIFER
STAR TANNERY
BRILL
MILE RIDGE
BOBCAT
ROLLING ROCK
INDIAN ROCK
COAL MINE
JULIUS KELLER
TURKEY RUN
LINDAMOOD
MIDDLE
COTTONTOWN
POST OFFICE
HOCKMAN
MUMAW
OLD GRADE
BACK
PINE GROVE
CLARY
TIMBERLAKE
RED BUD
PENNY
I81
55

H 01.0.0
BMP 0.00
EMP 5.53

H 02.0.0
BMP 5.53
EMP 14.42

LEGEND FOR APPALACHIAN ROUTES

ADHS ROUTE STATUS
- Complete (1a, 1b)
- Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)
- Final Construction (3a2)
- Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)
- Location Study (5a1, 5a2, 5a3, 5a4)
- Nonparticipating (NP)
- Interstates
- Other NHS Route
- Other Major Road
- TOLL Toll Bridge, Highway

- Other Bridge
- Combination Highway-Railroad Grade Separation
- Tunnel
- Interchange
- Railroad Grade Separation
- Highway Grade Separation - No Connection
- Urban Areas

Section ID
Beginning Milepoint
Ending Milepoint

Virginia
Appalachian Corridor H

Sheet 1 of 1
Aug 1, 2012

0 1 2 Miles

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 01.1.1A**	**Q 01.1.2A**	**Q 01.1.3A**	**Q 02.1.0A**	**Q 03.1.0A**	**Q 03.2.0**
LRS Milepoint: Beginning/Ending	**0.000/0.040**	**0.040/0.360**	**0.360/0.830**	**0.830/7.370**	**7.370/9.860**	**11.210/11.410**
Status	**Final Construction**	**Final Construction**	**Final Construction**	**Design/RoW**	**Design/RoW**	**Completed**
1. Finance Code	23	23	23	23	23	20
2. Section Length(Miles)	0.1	0.3	0.4	6.5	2.5	0.2
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	50
7. Traffic:						
---- *a. ADT-Base Year (2010)*	4,850	4,850	4,850	4,850	5,150	7,530
---- *b. ADT-Year 2020*	5,750	5,750	5,750	5,750	6,250	8,880
---- *c. Design Year*	2,032	2,032	2,032	2,032	2,028	2,018
---- *d. ADT-Design Year*	8,700	8,700	8,700	8,700	7,200	8,970
---- *e. DHV-Design Year*	905	905	905	905	780	900
---- *f. % Truck Design Year(DHV)*	5	5	5	5	5	10
---- *g. % Truck Design Year(ADT)*	5	5	5	5	5	12
---- *h. Directional Distribution Factor*	55	55	55	55	55	60
8. Number of Lanes to be Constructed this Estimate	4	4	4	4	4	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	J-3/Partial	J-3/Partial	C-3/Partial	C-3/Partial	C-3/Partial	G-1/None
11. Right-of-Way Width(ft), prevailing	586	586	586	880	575	65
12. Median Width(ft), prevailing	40	40	40	40	40	0
13. Status of Development(Figure 4)	3a2	3a2	3a2	4a1	4a1	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	7,287	0	0
---- *b. Design*	0	0	0	0	904	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	8,870	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	88,865	6,300	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	14,208	8,000	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	1,398	0	0
24. Environmental Mitigation	0	0	0	3,140	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	16,777	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**124,388**	**14,300**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**12,439**	**1,430**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**136,827**	**15,730**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**160,633**	**17,466**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 03.2.0A**	**Q 03.2.1A**	**Q 03.2.2A**	**Q 03.3.0A**	**Q 04.1.0**	**Q 05.1.2**
LRS Milepoint: Beginning/Ending	**9.860/11.560**	**11.560/11.860**	**11.860/12.410**	**12.410/14.300**	**11.410/11.510**	**11.510/12.310**
Status	**Design/RoW**	**Design/RoW**	**Design/RoW**	**Design/RoW**	**Completed**	**NP**
1. Finance Code	23	23	23	23	20	20
2. Section Length(Miles)	1.7	0.3	0.5	1.9	0.1	0.8
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	50	50
7. Traffic:						
---- *a. ADT-Base Year (2010)*	5,150	5,150	5,150	5,150	7,530	7,530
---- *b. ADT-Year 2020*	6,250	6,250	6,250	6,250	8,880	8,880
---- *c. Design Year*	2,028	2,028	2,028	2,028	2,023	2,018
---- *d. ADT-Design Year*	7,200	7,200	7,200	7,200	9,110	9,110
---- *e. DHV-Design Year*	780	780	780	780	910	910
---- *f. % Truck Design Year(DHV)*	5	5	5	5	10	10
---- *g. % Truck Design Year(ADT)*	5	5	5	5	12	12
---- *h. Directional Distribution Factor*	55	55	55	55	60	60
8. Number of Lanes to be Constructed this Estimate	4	4	4	4	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	C-3/Partial	J-3/Partial	C-3/Partial	C-3/Partial	G-1/Partial	G-1/None
11. Right-of-Way Width(ft), prevailing	575	575	575	575	65	65
12. Median Width(ft), prevailing	40	40	40	40	0	0
13. Status of Development(Figure 4)	4a1	4a1	4a1	4a1	1a	np
Estimated Cost($1,000) per Work Classification						
14. Preliminary Engineering:						
---- *a. Location*	2,084	368	613	1,762	0	0
---- *b. Design*	4,232	747	1,245	3,578	0	0
15. Right-of-Way:						
---- *a. Acquisition*	1,964	347	578	1,485	0	0
---- *b. Relocation*	347	61	102	262	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	49,728	6,762	14,757	53,318	0	0
18. Subbase, Base, Surfacing, Shoulders	3,608	637	1,061	4,032	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	41,878	0	5,475	0	0
23. Traffic Control	355	63	104	397	0	0
24. Environmental Mitigation	4,021	710	1,183	3,058	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	3,256	2,561	964	3,615	0	0
27. Subtotal(lines 17 thru 26)	**60,968**	**52,611**	**18,069**	**69,895**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**6,097**	**5,261**	**1,807**	**6,990**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**67,065**	**57,872**	**19,876**	**76,884**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**79,476**	**62,365**	**23,535**	**88,170**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 05.1.5**	**Q 05.2.0**	**Q 05.8.0**	**Q 07.2.0**	**Q 09.7.0**	**Q 10.6.0**
LRS Milepoint: Beginning/Ending	**12.310/12.720**	**12.720/13.310**	**13.310/14.200**	**14.200/15.660**	**15.660/15.810**	**15.810/16.910**
Status	**NP**	**Completed**	**Stage Construction**	**Stage Construction**	**Completed**	**Completed**
1. Finance Code	10	20	20	20	20	20
2. Section Length(Miles)	0.4	0.7	0.8	1.2	0.2	1.1
3. Class/Urban Code	R/0	U/0	U/0	U/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	37	37	37	40	40
7. Traffic:						
---- *a. ADT-Base Year (2010)*	13,610	12,415	15,145	15,145	13,950	13,950
---- *b. ADT-Year 2020*	17,330	15,205	16,455	16,455	15,500	15,500
---- *c. Design Year*	2,018	2,018	2,018	2,018	2,023	2,018
---- *d. ADT-Design Year*	18,430	14,740	15,960	15,960	16,120	15,780
---- *e. DHV-Design Year*	1,845	1,475	1,595	1,595	1,615	1,580
---- *f. % Truck Design Year(DHV)*	8	8	7	7	6	6
---- *g. % Truck Design Year(ADT)*	9	9	9	9	7	7
---- *h. Directional Distribution Factor*	60	55	55	55	50	60
8. Number of Lanes to be Constructed this Estimate	0	4	4	4	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	G-1/None	G-2/None	G-2/None	C-5/None	G-1/None	G-1/None
11. Right-of-Way Width(ft), prevailing	65	65	90	90	70	70
12. Median Width(ft), prevailing	0	16	16	0	0	0
13. Status of Development(Figure 4)	np	1a	3a3d	3a3c	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 11.1.0**	**Q 11.2.0**	**Q 12.0.0**	**Q 13.0.0**	**Q 14.0.0**	**Q 15.0.0**
LRS Milepoint: Beginning/Ending	**16.910/17.410**	**17.410/18.700**	**18.700/20.990**	**20.990/21.680**	**21.680/23.180**	**23.180/25.880**
Status	**Completed**	**Completed**	**NP**	**NP**	**NP**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.1	1.3	2.4	0.1	1.5	2.7
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09	51/027/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q1	2000000460/Q2	2000000460/Q2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	2/NHS	2/NHS	2/NHS	1/NHS
6. Design Speed(mph)	40	40	45	45	45	45
7. Traffic:						
---- *a. ADT-Base Year (2010)*	13,950	10,630	10,630	8,600	8,600	8,600
---- *b. ADT-Year 2020*	15,500	12,840	12,840	10,730	10,730	10,730
---- *c. Design Year*	2,018	2,018	1,980	1,983	1,983	1,985
---- *d. ADT-Design Year*	15,780	12,980	12,350	10,305	10,305	10,545
---- *e. DHV-Design Year*	1,580	1,300	1,235	1,035	1,035	1,055
---- *f. % Truck Design Year(DHV)*	6	7	7	7	7	7
---- *g. % Truck Design Year(ADT)*	7	8	8	8	8	8
---- *h. Directional Distribution Factor*	60	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	G-1/None	G-1/None	F-1/None	F-1/None	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	70	70	150	150	180	160
12. Median Width(ft), prevailing	0	0	22	16	16	4
13. Status of Development(Figure 4)	1a	1a	np	np	np	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 16.0.0**	**Q 17.0.0**	**Q 18.0.0**	**Q 19.0.0**	**Q 20.0.0**	**Q 21.0.0**
LRS Milepoint: Beginning/Ending	**25.880/26.890**	**26.890/29.190**	**29.190/34.190**	**34.190/34.750**	**34.750/36.650**	**36.650/40.800**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	1.6	2.3	5	0.6	1.9	2.8
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/027/09	51/027/09	51/027/09	51/027/09	51/185/09	51/185/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q2	2000000460/Q2	2000000460/Q2	2000000460/Q2	2000000460/Q2	2000000460/Q2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	50	45	45	45
7. Traffic:						
---- *a. ADT-Base Year (2010)*	8,600	9,370	9,070	9,070	9,070	9,640
---- *b. ADT-Year 2020*	10,730	10,830	10,770	10,770	10,770	13,150
---- *c. Design Year*	1,985	1,986	1,987	1,986	1,986	1,986
---- *d. ADT-Design Year*	10,545	10,390	8,625	8,485	8,485	9,561
---- *e. DHV-Design Year*	1,055	1,040	905	890	890	980
---- *f. % Truck Design Year(DHV)*	7	7	9	9	9	9
---- *g. % Truck Design Year(ADT)*	8	8	10	10	10	10
---- *h. Directional Distribution Factor*	55	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	120	160	110	200	180	250
12. Median Width(ft), prevailing	4	18	4	4	4	4
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 22.0.0**	**Q 25.0.0**	**Q 28.0.0**	**Q 29.0.0**	**Q 30.0.0**	**Q 31.0.0**
LRS Milepoint: Beginning/Ending	**40.800/41.360**	**41.360/43.880**	**43.880/45.220**	**45.220/46.460**	**46.460/57.040**	**57.040/57.640**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Location Study**
1. Finance Code	20	20	20	20	20	22
2. Section Length(Miles)	2.8	1.7	1.3	1.3	1.1	0.6
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/185/09	51/185/09	51/185/09	51/185/09	51/185/09	51/185/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000019/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q2	2000000460/Q3	2000000460/Q3	2000000460/Q3	2000000460/Q3	2000000019/Q3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	50	50	55	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	18,000	16,700	15,660	20,800	19,910	15,560
---- *b. ADT-Year 2020*	24,830	19,390	19,300	23,200	22,250	18,680
---- *c. Design Year*	1,988	1,990	1,990	1,990	1,987	2,014
---- *d. ADT-Design Year*	20,960	12,660	16,020	18,130	17,225	16,880
---- *e. DHV-Design Year*	1,095	1,265	1,605	1,815	1,725	1,690
---- *f. % Truck Design Year(DHV)*	4	6	6	5	5	8
---- *g. % Truck Design Year(ADT)*	5	7	7	6	6	10
---- *h. Directional Distribution Factor*	55	55	55	55	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/Partial	F-1/Partial	F-1/Partial	F-1/None	C-4&C-5/None
11. Right-of-Way Width(ft), prevailing	200	250	350	300	175	180
12. Median Width(ft), prevailing	4	20	20	4	30	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	5a1

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	49
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	263
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	132
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	120
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	182
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	1
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	29
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**332**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**33**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**365**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**850**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 31.1.0**	**Q 32.0.0**	**Q 33.0.0**	**Q 34.0.0**	**Q 34.1.0**	**Q 34.2.0**
LRS Milepoint: Beginning/Ending	**57.640/59.340**	**59.340/61.040**	**61.040/67.900**	**67.900/71.000**	**71.000/71.790**	**71.790/73.760**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	1.7	1.7	6.9	3.1	1	1.9
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/185/09	51/185/09	51/185/09	51/185/09	51/185/09	51/185/09
---- *b. HPMS Route/Subroute*	0000000019/00	0000000019/00	0000000019/00	0000000019/00	0000000019/00	0000000019/00
---- *c. HPMS Signed Route/Strip Map #*	2000000019/Q3	2000000019/Q3	2000000019/Q3	2000000019/Q4	2000000019/Q4	2000000019/Q4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	13,000	13,000	13,000	11,300	8,730	8,730
---- *b. ADT-Year 2020*	17,000	17,000	17,000	14,670	11,510	11,480
---- *c. Design Year*	1,991	1,991	1,993	1,991	1,991	1,991
---- *d. ADT-Design Year*	11,995	11,995	11,520	8,822	9,590	8,860
---- *e. DHV-Design Year*	1,200	1,200	1,155	915	980	920
---- *f. % Truck Design Year(DHV)*	8	8	8	10	9	8
---- *g. % Truck Design Year(ADT)*	8	8	8	11	10	9
---- *h. Directional Distribution Factor*	60	60	60	50	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/Partial	F-1/Partial	F-1/Partial
11. Right-of-Way Width(ft), prevailing	180	160	280	350	350	350
12. Median Width(ft), prevailing	36	36	40	40	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 35.0.0**	**Q 36.0.0**	**Q 37.0.0**	**Q 37.1.0**	**Q 37.1.5**	**Q 37.2.0**
LRS Milepoint: Beginning/Ending	**73.760/78.400**	**78.400/84.510**	**74.500/75.800**	**75.800/77.000**	**77.000/78.200**	**78.200/80.210**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	4.6	6.1	1.3	1.2	1.2	1.6
3. Class/Urban Code	R/0	R/0	R/0	U/200	U/200	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/185/09	51/185/09	51/185/09	51/185/09	51/185/09	51/185/09
---- *b. HPMS Route/Subroute*	0000000019/00	0000000019/00	0000000019/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000019/Q4	2000000019/Q4	2000000019/Q5	2000000460/Q5	2000000460/Q5	2000000460/Q5
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	12,170	14,350	14,350	13,340	13,100	17,000
---- *b. ADT-Year 2020*	14,100	18,100	18,100	16,310	15,000	19,130
---- *c. Design Year*	1,987	1,986	2,015	2,015	2,015	2,015
---- *d. ADT-Design Year*	13,700	13,320	18,100	16,310	15,000	19,310
---- *e. DHV-Design Year*	1,370	1,335	1,810	1,630	1,500	1,915
---- *f. % Truck Design Year(DHV)*	7	7	7	9	8	7
---- *g. % Truck Design Year(ADT)*	8	8	8	10	9	8
---- *h. Directional Distribution Factor*	55	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	C-1/Partial	C-2/Partial	C-2/Partial	F-1/Partial
11. Right-of-Way Width(ft), prevailing	150	150	240	300	300	250
12. Median Width(ft), prevailing	20	20	64	64	64	64
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 39.0.0**	**Q 39.1.0**	**Q 39.2.0**	**Q 39.3.0**	**Q 39.4.0**	**Q 40.0.0**
LRS Milepoint: Beginning/Ending	**80.210/80.410**	**80.410/80.610**	**80.610/80.910**	**80.910/81.110**	**81.110/83.610**	**83.610/87.810**
Status	**NP**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.2	0.2	0.3	0.2	2.5	4.2
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/071/09	51/071/09	51/071/09	51/071/09	51/071/09	51/071/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q5	2000000460/Q5	2000000460/Q5	2000000460/Q5	2000000460/Q5	2000000460/Q5
5. Estimate Section/NHS Designation	2/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	45	45	45	45	50	50
7. Traffic:						
---- *a. ADT-Base Year (2010)*	9,470	9,470	9,470	9,470	9,800	9,430
---- *b. ADT-Year 2020*	12,630	12,630	12,630	12,630	13,710	13,070
---- *c. Design Year*	1,988	1,988	1,991	1,991	1,991	1,991
---- *d. ADT-Design Year*	8,280	8,280	8,840	8,840	8,700	8,820
---- *e. DHV-Design Year*	870	870	920	920	905	920
---- *f. % Truck Design Year(DHV)*	9	9	9	9	9	9
---- *g. % Truck Design Year(ADT)*	10	10	10	10	10	10
---- *h. Directional Distribution Factor*	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	J-1/None	F-1/None	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	266	180	188	300	245	300
12. Median Width(ft), prevailing	16	16	18	30	60	125
13. Status of Development(Figure 4)	np	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 41.0.0**	**Q 41.1.0**	**Q 42.0.0**	**Q 43.0.0**	**Q 43.1.0**	**Q 44.0.0**
LRS Milepoint: Beginning/Ending	**87.810/89.910**	**89.910/90.610**	**90.610/90.910**	**90.910/94.230**	**94.230/95.030**	**95.030/95.820**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.1	0.7	0.3	3.6	0.8	0.3
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/071/09	51/071/09	51/071/09	51/071/09	51/071/09	51/071/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q5	2000000460/Q6	2000000460/Q6	2000000460/Q6	2000000460/Q6	2000000460/Q6
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	40	50	50	60	50	50
7. Traffic:						
---- *a. ADT-Base Year (2010)*	14,720	14,710	14,710	12,900	12,880	12,880
---- *b. ADT-Year 2020*	15,620	15,610	15,610	14,340	14,080	14,080
---- *c. Design Year*	1,989	1,995	1,995	1,999	1,994	1,994
---- *d. ADT-Design Year*	11,810	12,550	12,550	12,400	11,180	11,180
---- *e. DHV-Design Year*	1,190	1,255	1,255	1,240	1,130	1,130
---- *f. % Truck Design Year(DHV)*	9	9	9	9	9	9
---- *g. % Truck Design Year(ADT)*	10	10	10	10	10	10
---- *h. Directional Distribution Factor*	60	60	60	60	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/Partial	F-1/Partial	F-1/Partial
11. Right-of-Way Width(ft), prevailing	150	185	180	250	250	200
12. Median Width(ft), prevailing	20	20	25	40	40	30
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 45.0.0**	**Q 45.1.0**	**Q 46.0.0**	**Q 47.0.0**	**Q 48.0.0**	**Q 49.0.0**
LRS Milepoint: Beginning/Ending	**95.820/96.200**	**96.200/96.800**	**96.800/97.240**	**97.240/98.830**	**98.830/101.030**	**101.030/103.030**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.8	0.6	0.5	1.6	2.2	2
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	51/071/09	51/071/09	51/071/09	51/071/09	51/071/09	51/071/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q6	2000000460/Q6	2000000460/Q6	2000000460/Q6	2000000460/Q6	2000000460/Q6
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	65	65	65	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	12,880	12,880	12,890	12,130	9,960	9,960
---- *b. ADT-Year 2020*	14,080	14,080	14,480	14,470	11,670	11,670
---- *c. Design Year*	1,994	1,994	1,994	1,994	1,994	1,996
---- *d. ADT-Design Year*	11,180	10,920	10,920	10,920	10,920	11,180
---- *e. DHV-Design Year*	1,130	1,105	1,105	1,105	1,105	1,130
---- *f. % Truck Design Year(DHV)*	9	9	9	9	9	9
---- *g. % Truck Design Year(ADT)*	10	10	10	10	10	10
---- *h. Directional Distribution Factor*	55	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/Partial	F-1/None	F-1/None	F-1/None	F-1/None	F-1/None
11. Right-of-Way Width(ft), prevailing	350	190	165	100	165	165
12. Median Width(ft), prevailing	40	40	20	4	20	20
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 49.1.0**	**Q 50.0.0**	**Q 51.0.0**	**Q 52.0.0**	**Q 53.0.0**	**Q 53.1.0**
LRS Milepoint: Beginning/Ending	**103.030/105.830**	**105.830/108.090**	**108.090/109.190**	**109.190/111.550**	**111.550/115.350**	**115.350/118.680**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.8	2.3	1.1	2.4	3.8	3.4
3. Class/Urban Code	R/0	R/0	R/0	R/0	U/180	U/180
4. Location:						
---- *a. FIPS State/County/Congressional*	51/071/09	51/071/09	51/121/09	51/121/09	51/121/09	51/121/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q6	2000000460/Q7	2000000460/Q7	2000000460/Q7	2000000460/Q7	2000000460/Q7
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	50	50	50	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	10,840	11,800	11,800	11,800	13,100	32,400
---- *b. ADT-Year 2020*	14,390	15,660	15,600	15,600	18,330	39,300
---- *c. Design Year*	1,996	1,986	1,986	1,986	2,017	2,017
---- *d. ADT-Design Year*	8,680	8,100	8,100	10,110	19,380	40,400
---- *e. DHV-Design Year*	905	860	960	1,030	1,940	4,040
---- *f. % Truck Design Year(DHV)*	9	9	9	8	7	4
---- *g. % Truck Design Year(ADT)*	10	10	10	10	8	5
---- *h. Directional Distribution Factor*	55	55	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	F-1/None	F-1/None	F-1/None	F-1/None	F-1/Partial	F-1/Partial
11. Right-of-Way Width(ft), prevailing	182	180	180	160	200	200
12. Median Width(ft), prevailing	22	20	20	20	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 54.0.0**	**Q 54.1.0**	**Q 54.2.0**	**Q 54.4.0**	**Q 55.0.0**	**Q 55.2.0**
LRS Milepoint: Beginning/Ending	**118.680/119.780**	**119.780/120.700**	**120.700/121.360**	**121.360/121.760**	**121.760/123.760**	**123.760/124.460**
Status	**NP**	**NP**	**NP**	**NP**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	1.1	1	0.5	0.4	2	0.7
3. Class/Urban Code	U/180	U/500	U/500	U/500	U/500	U/500
4. Location:						
---- *a. FIPS State/County/Congressional*	51/121/09	51/121/09	51/121/09	51/121/09	51/121/09	51/121/09
---- *b. HPMS Route/Subroute*	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00	0000000460/00
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q7	2000000460/Q7	2000000460/Q7	2000000460/Q7	2000000460/Q7	2000000460/Q7
5. Estimate Section/NHS Designation	2/NHS	2/NHS	2/NHS	2/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	0	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2010)*	15,100	14,460	14,460	23,700	33,050	33,050
---- *b. ADT-Year 2020*	18,300	17,330	17,140	32,100	41,000	41,000
---- *c. Design Year*	1,986	1,986	1,986	1,986	1,986	1,986
---- *d. ADT-Design Year*	33,670	33,670	33,840	33,840	11,880	11,880
---- *e. DHV-Design Year*	3,370	3,370	3,385	3,385	1,200	1,200
---- *f. % Truck Design Year(DHV)*	3	3	3	4	8	8
---- *g. % Truck Design Year(ADT)*	4	4	4	5	11	11
---- *h. Directional Distribution Factor*	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	B-1/None	B-1/None	B-1/None	F-1/None	F-1/Partial	F-1/Partial
11. Right-of-Way Width(ft), prevailing	160	160	160	160	200	200
12. Median Width(ft), prevailing	16	16	16	16	40	40
13. Status of Development(Figure 4)	np	np	np	np	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	0	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- *a. Landscape Planting*	0	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**0**

2012 Appalachian Developement Highway System Cost Estimate
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: VA ADHS Corridor: Q

Section ID	**Q 56.0.0**	**Q 58.0.0**
LRS Milepoint: Beginning/Ending	**119.990/121.140**	**-/-**
Status	**Completed**	**Location Study**
1. Finance Code	20	23
2. Section Length(Miles)	0.7	0.3
3. Class/Urban Code	U/500	R/0
4. Location:		
---- *a. FIPS State/County/Congressional*	51/121/09	//
---- *b. HPMS Route/Subroute*	0000000460/00	/
---- *c. HPMS Signed Route/Strip Map #*	2000000460/Q7	/
5. Estimate Section/NHS Designation	1/NHS	-/
6. Design Speed(mph)	60	
7. Traffic:		
---- *a. ADT-Base Year (2010)*	15,900	
---- *b. ADT-Year 2020*	27,600	
---- *c. Design Year*	1,986	
---- *d. ADT-Design Year*	22,310	
---- *e. DHV-Design Year*	2,230	
---- *f. % Truck Design Year(DHV)*	6	
---- *g. % Truck Design Year(ADT)*	9	
---- *h. Directional Distribution Factor*	60	
8. Number of Lanes to be Constructed this Estimate	0	
9. Ultimate Number of Through Traffic Lanes	4	
10. Typical X-Section of Reference/Access Control	F-1/None	/
11. Right-of-Way Width(ft), prevailing	120	
12. Median Width(ft), prevailing	18	
13. Status of Development(Figure 4)	1a	5a3 (Undesignated)

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:		
---- *a. Location*	0	0
---- *b. Design*	0	0
15. Right-of-Way:		
---- *a. Acquisition*	0	0
---- *b. Relocation*	0	0
16. Utility Adjustments	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0
19. Railroad Grade Seperations	0	0
20. Highway Grade Seperations without Ramps	0	0
21. Interchanges	0	0
22. Other Bridges, Tunnels, and Walls	0	0
23. Traffic Control	0	0
24. Environmental Mitigation	0	0
25. Roadside Improvements:		
---- *a. Landscape Planting*	0	0
---- *b. Rest Area, Overlooks*	0	0
26. All Other Items	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**

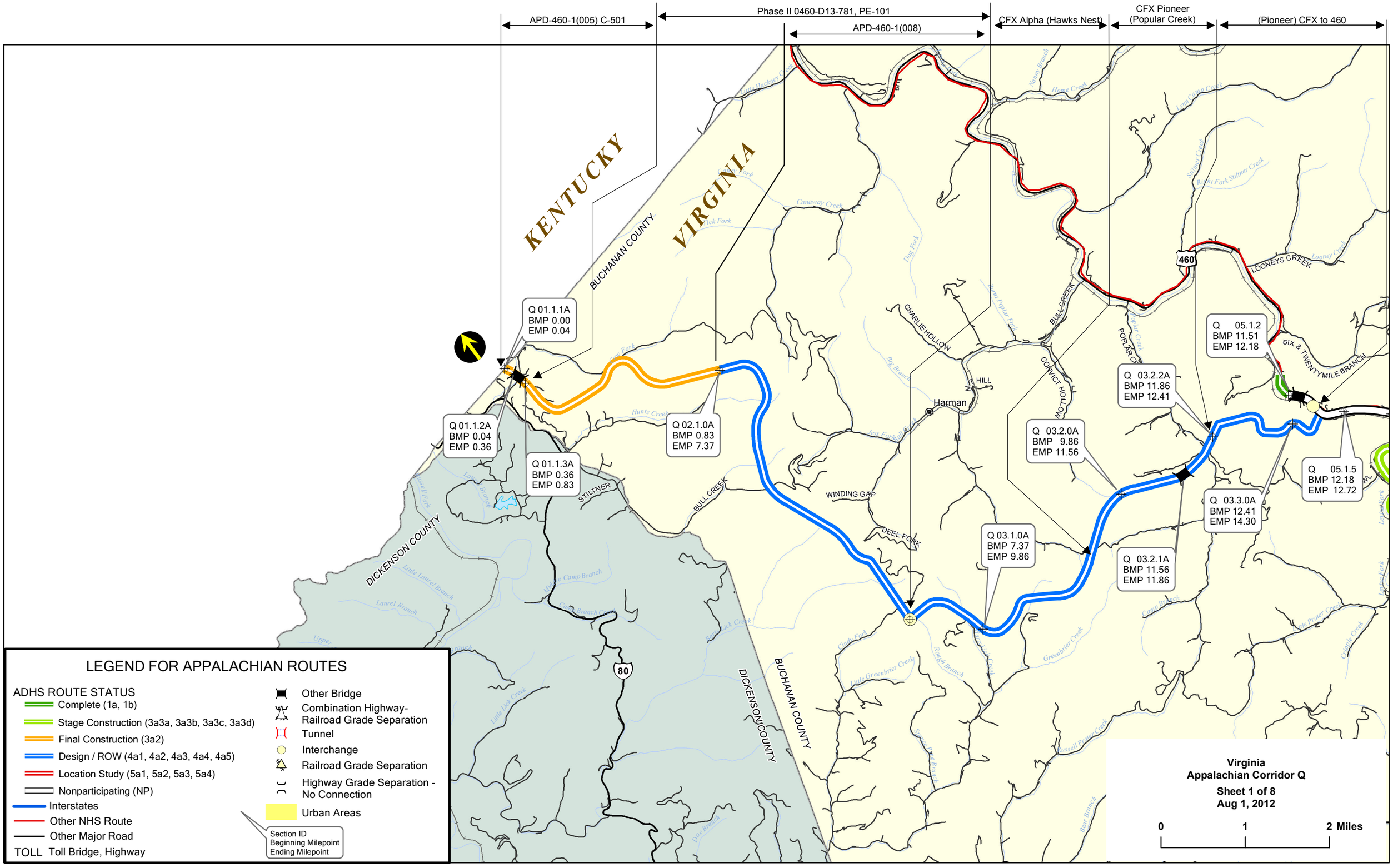
2012 Appalachian Developement Highway System Cost Estimate

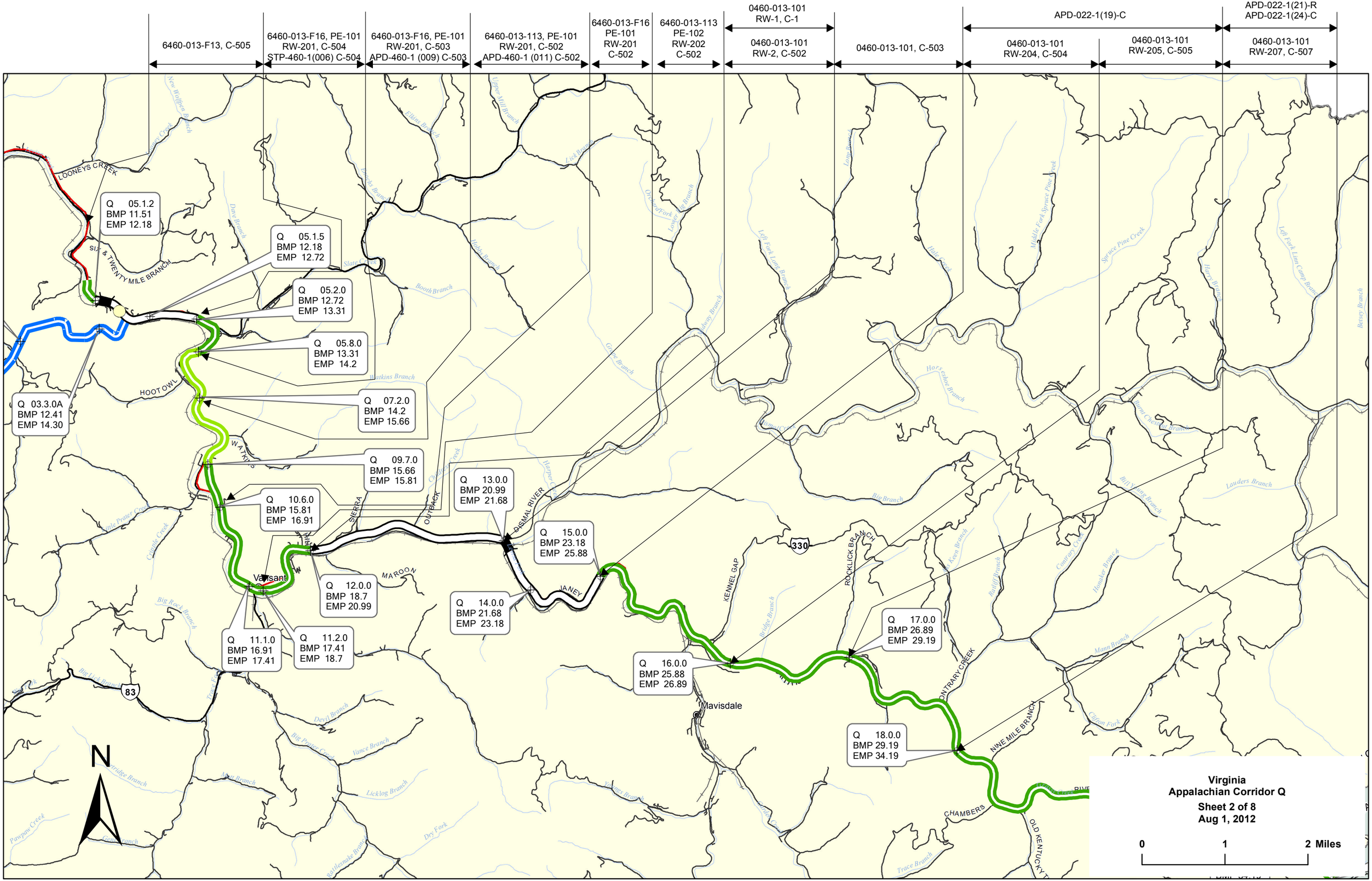
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

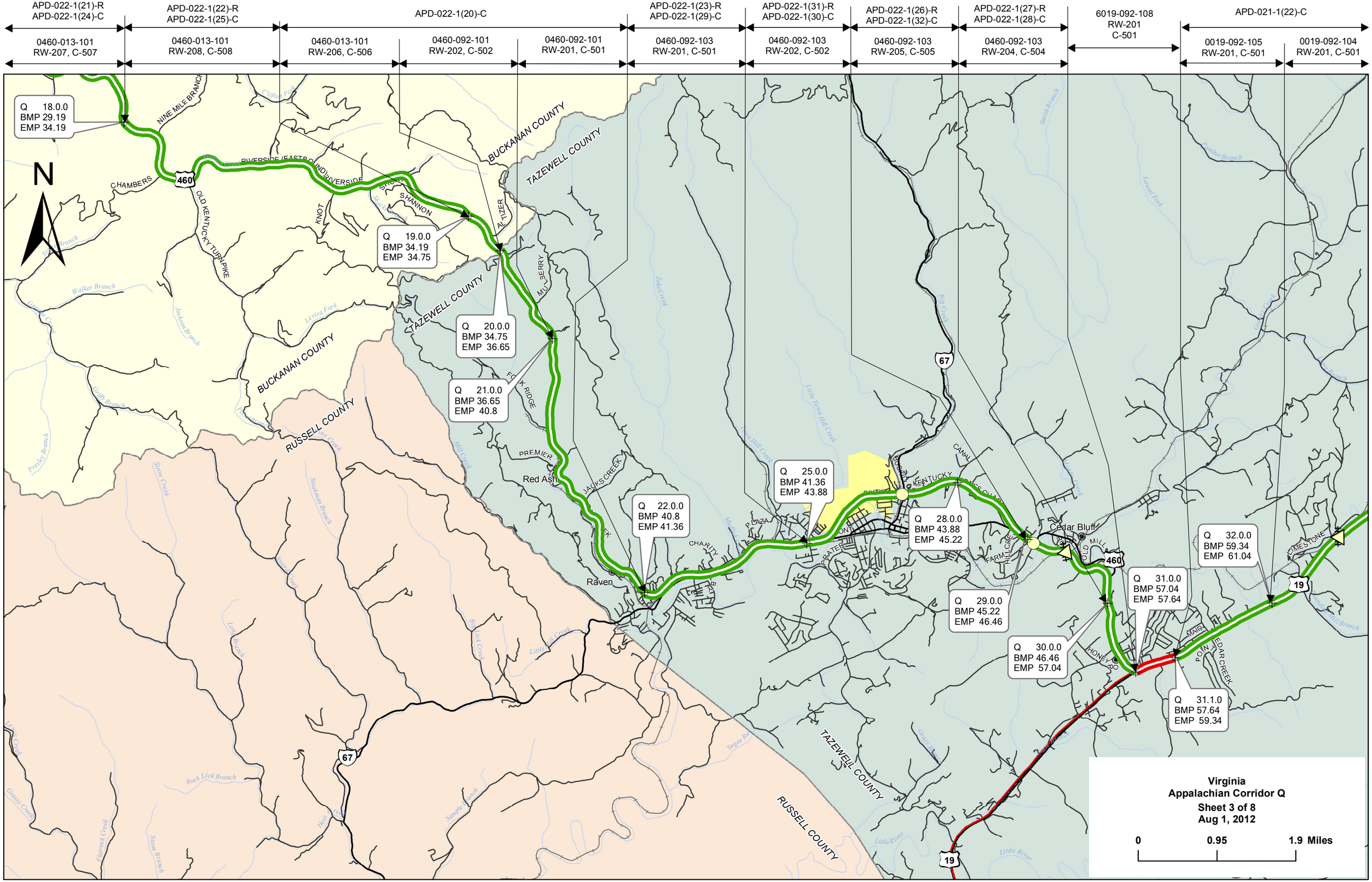
State: VA

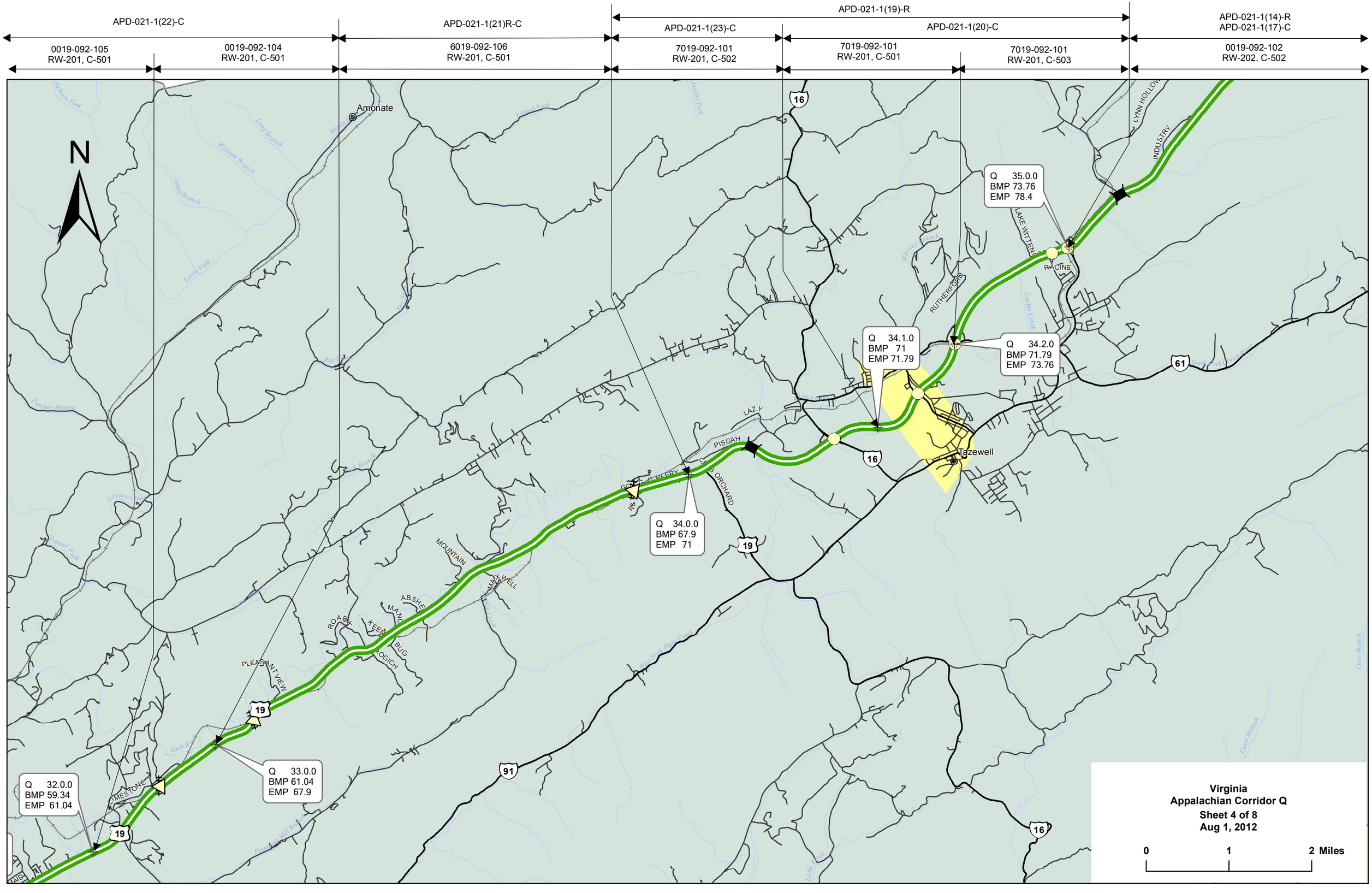
ADHS Corridor: Q

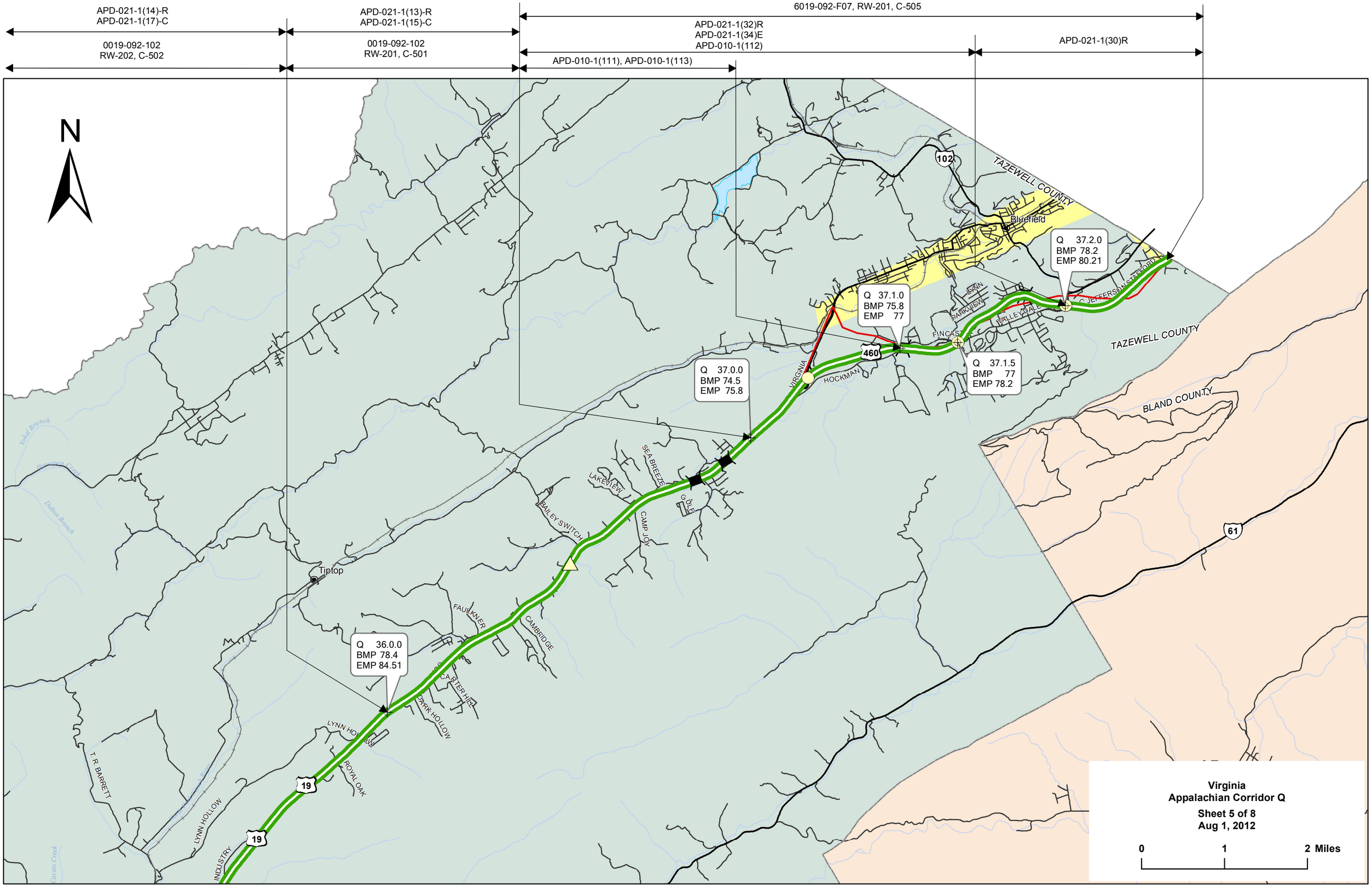
Section ID **LRS Milepoint**	**Corridor Total**	**Rural Subtotal**	**Urban Subtotal**
1. Finance Code			
2. Section Length(Miles)	128.70	110.00	18.70
3. Class/Urban Code			
4. Location:			
---- *a. FIPS State/County/Congressional*			
---- *b. HPMS Route/Subroute*			
---- *c. HPMS Signed Route/Strip Map #*			
5. Estimate Section/NHS Designation			
6. Design Speed(mph)			
7. Traffic:			
---- *a. ADT-Base Year (2010)*			
---- *b. ADT-Year 2020*			
---- *c. Design Year*			
---- *d. ADT-Design Year*			
---- *e. DHV-Design Year*			
---- *f. % Truck Design Year(DHV)*			
---- *g. % Truck Design Year(ADT)*			
---- *h. Directional Distribution Factor*			
8. Number of Lanes to be Constructed this Estimate			
9. Ultimate Number of Through Traffic Lanes			
10. Typical X-Section of Reference/Access Control			
11. Right-of-Way Width(ft), prevailing			
12. Median Width(ft), prevailing			
13. Status of Development(Figure 4)			
Estimated Cost($1,000) per Work Classification			
14. Preliminary Engineering:			
---- *a. Location*	12,114	12,114	
---- *b. Design*	10,755	10,755	
15. Right-of-Way:			
---- *a. Acquisition*	13,507	13,507	
---- *b. Relocation*	772	772	
16. Utility Adjustments	132	132	
17. Erosion Control/Clear/Grade/Drain/Minor Structure	219,850	219,850	
18. Subbase, Base, Surfacing, Shoulders	31,728	31,728	
19. Railroad Grade Seperations			
20. Highway Grade Seperations without Ramps			
21. Interchanges			
22. Other Bridges, Tunnels, and Walls	47,353	47,353	
23. Traffic Control	2,318	2,318	
24. Environmental Mitigation	12,112	12,112	
25. Roadside Improvements:			
---- *a. Landscape Planting*			
---- *b. Rest Area, Overlooks*			
26. All Other Items	27,202	27,202	
27. Subtotal(lines 17 thru 26)	340,563	340,563	
28. Construction Engineering(10.00000000% of line 27)	34,056	34,056	
29. Total Cost of Construction(lines 27 & 28)	374,619	374,619	
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	432,494	432,494	

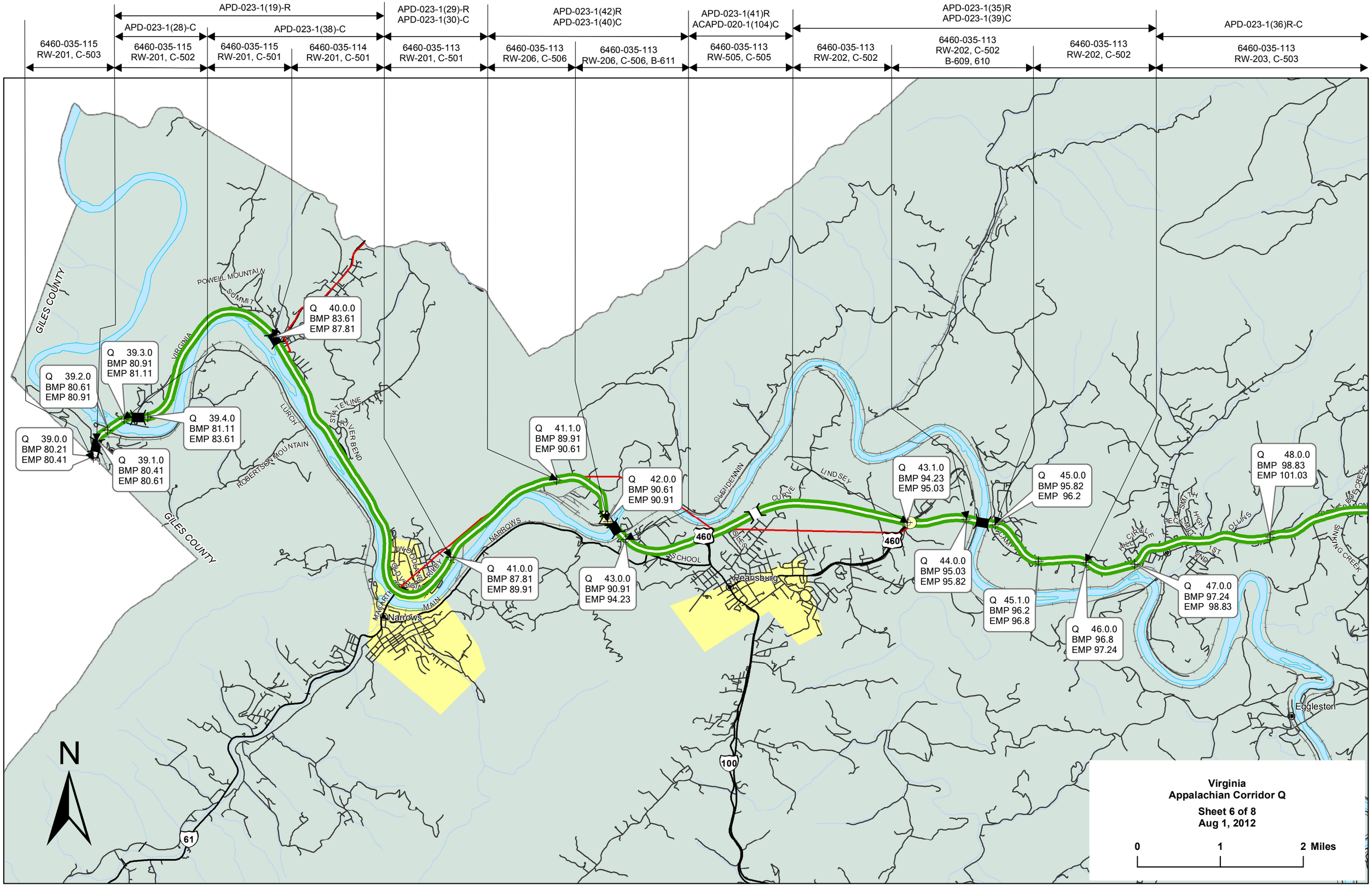

APD-460-1(005) C-501
Phase II 0460-D13-781, PE-101
APD-460-1(008)
CFX Alpha (Hawks Nest)
CFX Pioneer
(Popular Creek)
(Pioneer) CFX to 460
KENTUCKY
VIRGINIA
BUCHANAN COUNTY
DICKENSON COUNTY
Q 01.1.1A
BMP 0.00
EMP 0.04
Q 01.1.2A
BMP 0.04
EMP 0.36
Q 01.1.3A
BMP 0.36
EMP 0.83
Q 02.1.0A
BMP 0.83
EMP 7.37
Q 03.1.0A
BMP 7.37
EMP 9.86
Q 03.2.0A
BMP 9.86
EMP 11.56
Q 03.2.1A
BMP 11.56
EMP 11.86
Q 03.2.2A
BMP 11.86
EMP 12.41
Q 03.3.0A
BMP 12.41
EMP 14.30
Q 05.1.2
BMP 11.51
EMP 12.18
Q 05.1.5
BMP 12.18
EMP 12.72
460
80
Harman
HILL
CHARLIE HOLLOW
BULL CREEK
CONVICT HOLLOW
POPLAR CR
LOONEYS CREEK
SIX & TWENTYMILE BRANCH
STILTNER
WINDING GAP
DEEL FORK
Virginia
Appalachian Corridor Q
Sheet 1 of 8
Aug 1, 2012
0
1
2 Miles
LEGEND FOR APPALACHIAN ROUTES
ADHS ROUTE STATUS
Complete (1a, 1b)
Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)
Final Construction (3a2)
Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)
Location Study (5a1, 5a2, 5a3, 5a4)
Nonparticipating (NP)
Interstates
Other NHS Route
Other Major Road
TOLL Toll Bridge, Highway
Other Bridge
Combination Highway-Railroad Grade Separation
Tunnel
Interchange
Railroad Grade Separation
Highway Grade Separation - No Connection
Urban Areas
Section ID
Beginning Milepoint
Ending Milepoint

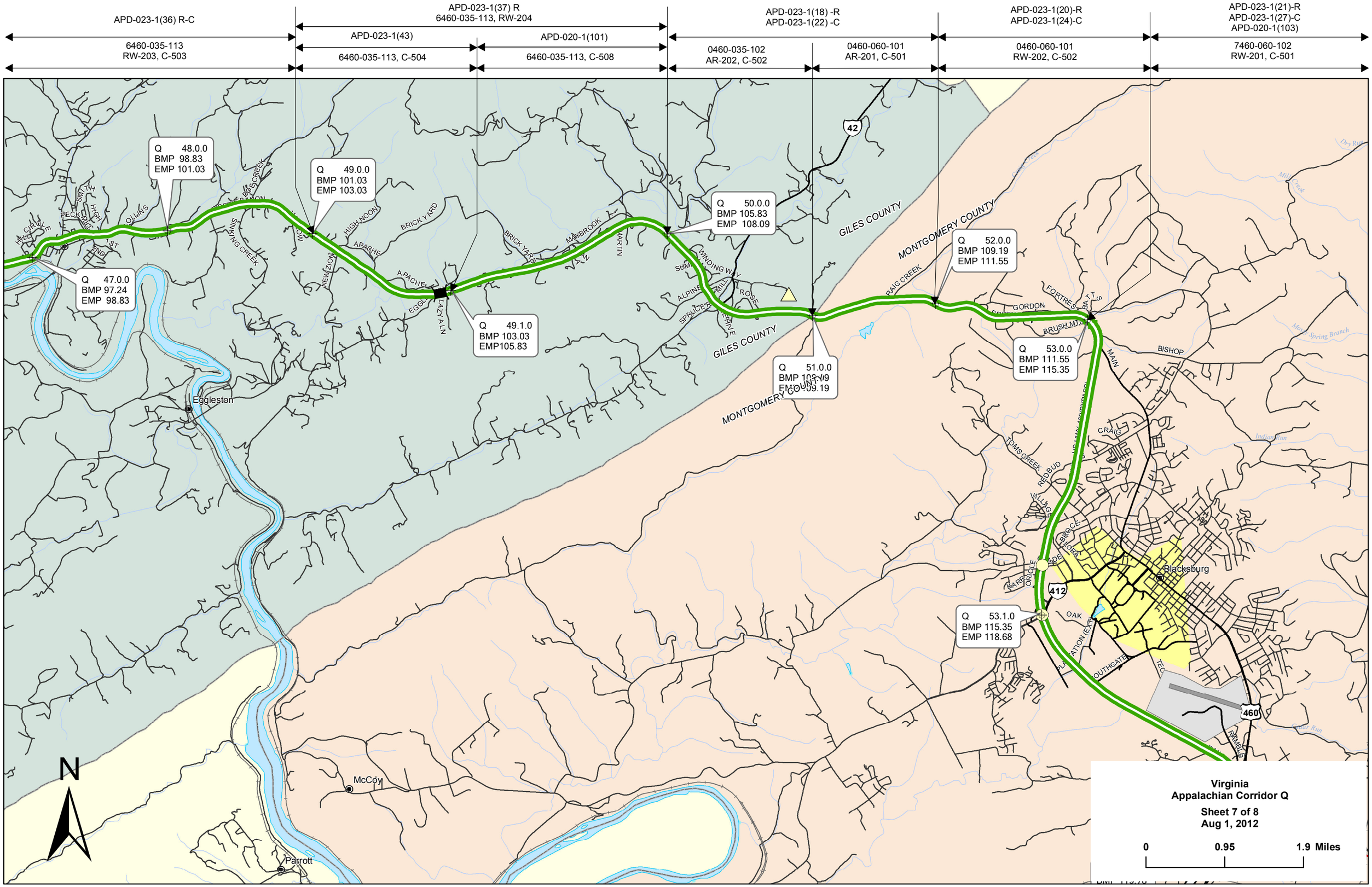

6460-013-F13, C-505
6460-013-F16, PE-101
RW-201, C-504
STP-460-1(006) C-504
6460-013-F16, PE-101
RW-201, C-503
APD-460-1 (009) C-503
6460-013-113, PE-101
RW-201, C-502
APD-460-1 (011) C-502
6460-013-F16
PE-101
RW-201
C-502
6460-013-113
PE-102
RW-202
C-502
0460-013-101
RW-1, C-1
0460-013-101
RW-2, C-502
0460-013-101, C-503
APD-022-1(19)-C
0460-013-101
RW-204, C-504
0460-013-101
RW-205, C-505
APD-022-1(21)-R
APD-022-1(24)-C
0460-013-101
RW-207, C-507
LOONEYS CREEK
SIX & TWENTY MILE BRANCH
HOOT OWL
WATKINS
SIERRA
OUTBACK
DISMAL RIVER
MAROON
JANEY
KENNEL GAP
ROCKLICK BRANCH
CONTRARY CREEK
NINE MILE BRANCH
CHAMBERS
OLD KENTUCKY
Varsant
Mavisdale
330
83
Q 05.1.2
BMP 11.51
EMP 12.18
Q 05.1.5
BMP 12.18
EMP 12.72
Q 05.2.0
BMP 12.72
EMP 13.31
Q 05.8.0
BMP 13.31
EMP 14.2
Q 03.3.0A
BMP 12.41
EMP 14.30
Q 07.2.0
BMP 14.2
EMP 15.66
Q 09.7.0
BMP 15.66
EMP 15.81
Q 10.6.0
BMP 15.81
EMP 16.91
Q 13.0.0
BMP 20.99
EMP 21.68
Q 15.0.0
BMP 23.18
EMP 25.88
Q 12.0.0
BMP 18.7
EMP 20.99
Q 14.0.0
BMP 21.68
EMP 23.18
Q 11.1.0
BMP 16.91
EMP 17.41
Q 11.2.0
BMP 17.41
EMP 18.7
Q 16.0.0
BMP 25.88
EMP 26.89
Q 17.0.0
BMP 26.89
EMP 29.19
Q 18.0.0
BMP 29.19
EMP 34.19
N
Virginia
Appalachian Corridor Q
Sheet 2 of 8
Aug 1, 2012
0
1
2 Miles

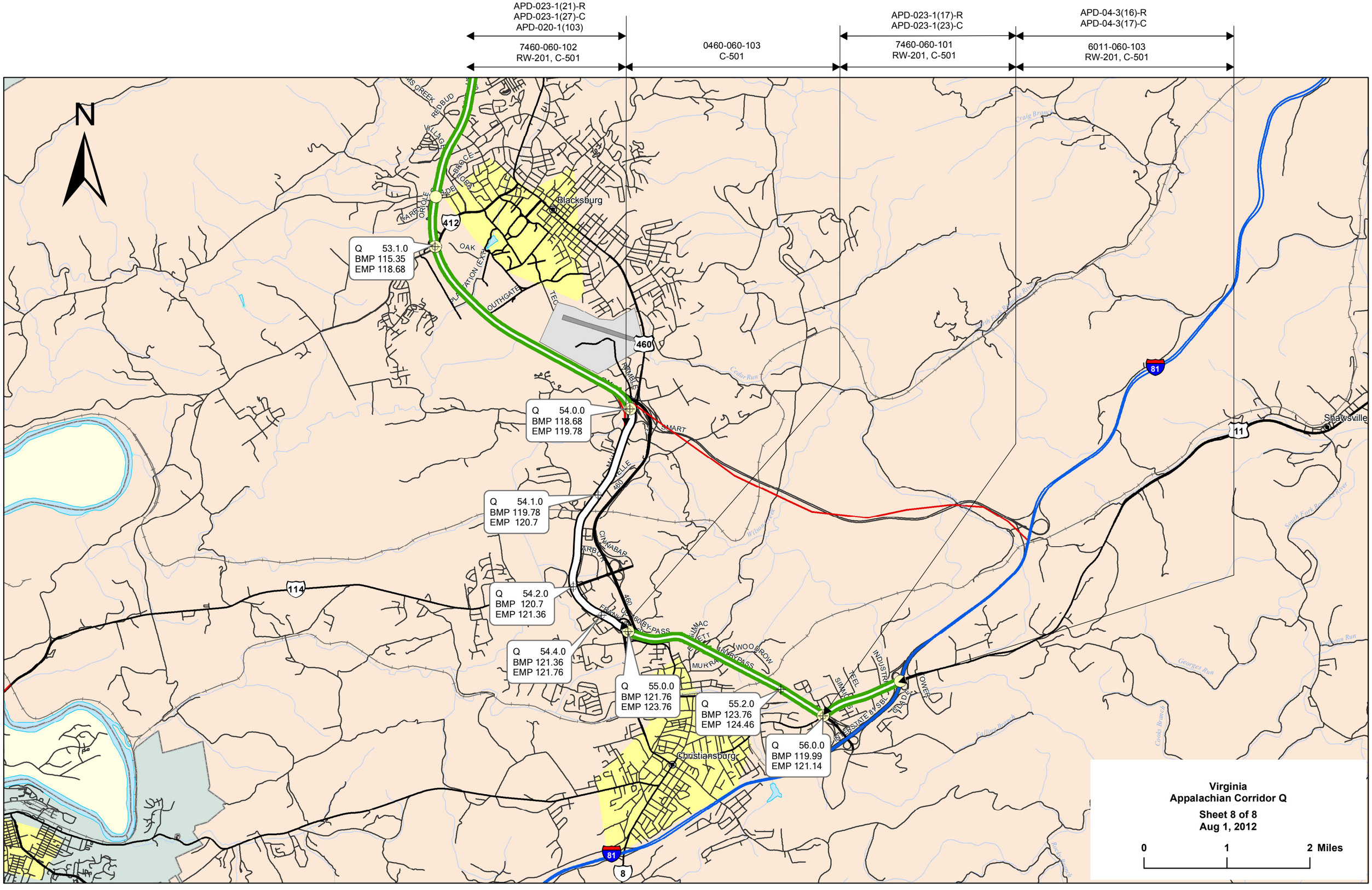

APD-022-1(21)-R
APD-022-1(24)-C
0460-013-101
RW-207, C-507
APD-022-1(22)-R
APD-022-1(25)-C
0460-013-101
RW-208, C-508
APD-022-1(20)-C
0460-013-101
RW-206, C-506
0460-092-101
RW-202, C-502
0460-092-101
RW-201, C-501
APD-022-1(23)-R
APD-022-1(29)-C
0460-092-103
RW-201, C-501
APD-022-1(31)-R
APD-022-1(30)-C
0460-092-103
RW-202, C-502
APD-022-1(26)-R
APD-022-1(32)-C
0460-092-103
RW-205, C-505
APD-022-1(27)-R
APD-022-1(28)-C
0460-092-103
RW-204, C-504
6019-092-108
RW-201
C-501
APD-021-1(22)-C
0019-092-105
RW-201, C-501
0019-092-104
RW-201, C-501
N
Q 18.0.0
BMP 29.19
EMP 34.19
Q 19.0.0
BMP 34.19
EMP 34.75
Q 20.0.0
BMP 34.75
EMP 36.65
Q 21.0.0
BMP 36.65
EMP 40.8
Q 22.0.0
BMP 40.8
EMP 41.36
Q 25.0.0
BMP 41.36
EMP 43.88
Q 28.0.0
BMP 43.88
EMP 45.22
Q 29.0.0
BMP 45.22
EMP 46.46
Q 30.0.0
BMP 46.46
EMP 57.04
Q 31.0.0
BMP 57.04
EMP 57.64
Q 31.1.0
BMP 57.64
EMP 59.34
Q 32.0.0
BMP 59.34
EMP 61.04
NINE MILE BRANCH
CHAMBERS
460
OLD KENTUCKY TURNPIKE
RIVERSIDE (EASTBOUND)
RIVERSIDE
KNOT
SHANNON
AL TIZER
BUCKANAN COUNTY
TAZEWELL COUNTY
MULBERRY
FOLK RIDGE
PREMIER
Red Ash
JACKS CREEK
Raven
CHARITY
PLAZA
BRATER
KENTUCKY
CANAL
FARM HILL
Cedar Bluff
OLD MILL
67
19
LIMESTONE
MAIN
POINT
CEDAR CREEK
HONEY
RUSSELL COUNTY
Virginia
Appalachian Corridor Q
Sheet 3 of 8
Aug 1, 2012
0
0.95
1.9 Miles


APD-021-1(22)-C
APD-021-1(21)R-C
APD-021-1(19)-R
APD-021-1(23)-C
APD-021-1(20)-C
APD-021-1(14)-R
APD-021-1(17)-C
0019-092-105
RW-201, C-501
0019-092-104
RW-201, C-501
6019-092-106
RW-201, C-501
7019-092-101
RW-201, C-502
7019-092-101
RW-201, C-501
7019-092-101
RW-201, C-503
0019-092-102
RW-202, C-502
N
Amonate
Tazewell
Q 35.0.0
BMP 73.76
EMP 78.4
Q 34.1.0
BMP 71
EMP 71.79
Q 34.2.0
BMP 71.79
EMP 73.76
Q 34.0.0
BMP 67.9
EMP 71
Q 33.0.0
BMP 61.04
EMP 67.9
Q 32.0.0
BMP 59.34
EMP 61.04
LAKE WITTEN
RACINE
RUTHERFORD
INDUSTRY
LYNN HOLLOW
PISGAH
ORCHARD
MOUNTAIN
ABSHER
PLEASANT VIEW
LIMESTONE
16
19
61
91
Virginia
Appalachian Corridor Q
Sheet 4 of 8
Aug 1, 2012
0
1
2 Miles


APD-021-1(14)-R
APD-021-1(17)-C
0019-092-102
RW-202, C-502
APD-021-1(13)-R
APD-021-1(15)-C
0019-092-102
RW-201, C-501
6019-092-F07, RW-201, C-505
APD-021-1(32)R
APD-021-1(34)E
APD-010-1(112)
APD-010-1(111), APD-010-1(113)
APD-021-1(30)R
N
TAZEWELL COUNTY
BLAND COUNTY
Bluefield
Tiptop
Q 37.2.0
BMP 78.2
EMP 80.21
Q 37.1.0
BMP 75.8
EMP 77
Q 37.1.5
BMP 77
EMP 78.2
Q 37.0.0
BMP 74.5
EMP 75.8
Q 36.0.0
BMP 78.4
EMP 84.51
102
460
61
19
VIRGINIA
HOCKMAN
FINCASTLE
PARKVIEW
VALLEYDALE
JEFFERSON STAFFORD
SEABREEZE
LAKEVIEW
GULF
CAMP JOY
BAILEY SWITCH
FAULKNER
CAMBRIDGE
CARTER HILL
DARK HOLLOW
LYNN HOLLOW
ROYAL OAK
T R BARRETT
INDUSTRY
Virginia
Appalachian Corridor Q
Sheet 5 of 8
Aug 1, 2012
0
1
2 Miles


APD-023-1(19)-R
APD-023-1(28)-C
APD-023-1(38)-C
APD-023-1(29)-R
APD-023-1(30)-C
APD-023-1(42)R
APD-023-1(40)C
APD-023-1(41)R
ACAPD-020-1(104)C
APD-023-1(35)R
APD-023-1(39)C
APD-023-1(36)R-C
6460-035-115
RW-201, C-503
6460-035-115
RW-201, C-502
6460-035-115
RW-201, C-501
6460-035-114
RW-201, C-501
6460-035-113
RW-201, C-501
6460-035-113
RW-206, C-506
6460-035-113
RW-206, C-506, B-611
6460-035-113
RW-505, C-505
6460-035-113
RW-202, C-502
6460-035-113
RW-202, C-502
B-609, 610
6460-035-113
RW-202, C-502
6460-035-113
RW-203, C-503
Q 39.0.0
BMP 80.21
EMP 80.41
Q 39.1.0
BMP 80.41
EMP 80.61
Q 39.2.0
BMP 80.61
EMP 80.91
Q 39.3.0
BMP 80.91
EMP 81.11
Q 39.4.0
BMP 81.11
EMP 83.61
Q 40.0.0
BMP 83.61
EMP 87.81
Q 41.0.0
BMP 87.81
EMP 89.91
Q 41.1.0
BMP 89.91
EMP 90.61
Q 42.0.0
BMP 90.61
EMP 90.91
Q 43.0.0
BMP 90.91
EMP 94.23
Q 43.1.0
BMP 94.23
EMP 95.03
Q 44.0.0
BMP 95.03
EMP 95.82
Q 45.0.0
BMP 95.82
EMP 96.2
Q 45.1.0
BMP 96.2
EMP 96.8
Q 46.0.0
BMP 96.8
EMP 97.24
Q 47.0.0
BMP 97.24
EMP 98.83
Q 48.0.0
BMP 98.83
EMP 101.03
GILES COUNTY
POWELL MOUNTAIN
SUMMIT
VIRGINIA
LURCH
STATE LINE
RIVER BEND
ROBERTSON MOUNTAIN
NARROWS
GLENDENNIN
CURVE
LINDSEY
SCHOOL
MAIN
MACARTHUR
Narrows
Pearisburg
Eggleston
460
100
61
N
Virginia
Appalachian Corridor Q
Sheet 6 of 8
Aug 1, 2012
0
1
2 Miles


APD-023-1(36) R-C
6460-035-113
RW-203, C-503
APD-023-1(37) R
6460-035-113, RW-204
APD-023-1(43)
6460-035-113, C-504
APD-020-1(101)
6460-035-113, C-508
APD-023-1(18) -R
APD-023-1(22) -C
0460-035-102
AR-202, C-502
0460-060-101
AR-201, C-501
APD-023-1(20)-R
APD-023-1(24)-C
0460-060-101
RW-202, C-502
APD-023-1(21)-R
APD-023-1(27)-C
APD-020-1(103)
7460-060-102
RW-201, C-501
Q 48.0.0
BMP 98.83
EMP 101.03
Q 49.0.0
BMP 101.03
EMP 103.03
Q 50.0.0
BMP 105.83
EMP 108.09
Q 52.0.0
BMP 109.19
EMP 111.55
Q 47.0.0
BMP 97.24
EMP 98.83
Q 49.1.0
BMP 103.03
EMP105.83
Q 51.0.0
BMP 108.09
EMP 109.19
Q 53.0.0
BMP 111.55
EMP 115.35
Q 53.1.0
BMP 115.35
EMP 118.68
GILES COUNTY
MONTGOMERY COUNTY
Eggleston
McCoy
Parrott
Blacksburg
Craig
42
412
460
N
Virginia
Appalachian Corridor Q
Sheet 7 of 8
Aug 1, 2012
0
0.95
1.9 Miles


APD-023-1(21)-R
APD-023-1(27)-C
APD-020-1(103)
7460-060-102
RW-201, C-501
0460-060-103
C-501
APD-023-1(17)-R
APD-023-1(23)-C
7460-060-101
RW-201, C-501
APD-04-3(16)-R
APD-04-3(17)-C
6011-060-103
RW-201, C-501
N
Blacksburg
Christiansburg
Shawsville
Q 53.1.0
BMP 115.35
EMP 118.68
Q 54.0.0
BMP 118.68
EMP 119.78
Q 54.1.0
BMP 119.78
EMP 120.7
Q 54.2.0
BMP 120.7
EMP 121.36
Q 54.4.0
BMP 121.36
EMP 121.76
Q 55.0.0
BMP 121.76
EMP 123.76
Q 55.2.0
BMP 123.76
EMP 124.46
Q 56.0.0
BMP 119.99
EMP 121.14
Virginia
Appalachian Corridor Q
Sheet 8 of 8
Aug 1, 2012
0
1
2 Miles

2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of Virginia

Cost Estimates By Corridors and State Total

(Includes all eligible costs and associated mileages reported in Table B for Finance codes 21, 22, and 23)

ADHS Corridor	B		H		Q	
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban
Length in miles	0.0	0.0	14.4	0.0	15.1	0.0
Total Mileage (Rural + Urban)	0.0		14.4		15.1	
Work Classification	Estimated Costs ($1,000)					
14. Preliminary Engineering: a. Location	0	0	3,715	0	12,114	0
b. Design	0	0	7,430	0	10,755	0
15. Right-of-Way: a. Acquisition	0	0	34,333	0	13,507	0
b. Relocation	0	0	8,050	0	772	0
16. Utility Adjustments	0	0	10,500	0	132	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	0	0	0	0	219,850	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	31,728	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separation without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	47,353	0
23. Traffic Control	0	0	0	0	2,318	0
24. Environmental Mitigation	0	0	0	0	12,112	0
25. Roadside Improvements: a. Landscape Planting	0	0	0	0	0	0
b. Rest Areas, Overlooks	0	0	0	0	0	0
26. All Other Items	0	0	61,542	0	27,202	0
27. Subtotal (Lines 17 through 26)	0	0	61,542	0	340,563	0
28. Construction E & C (10.00% of line 27)	0	0	6,154	0	34,056	0
29. Total Cost of Construction (lines 27 and 28)	0	0	67,696	0	374,619	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)	0	0	138,310	0	432,494	0
31. Total Cost (Rural + Urban)	0		138,310		432,494	

2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of Virginia

Cost Estimates By Corridors and State Total

(Includes all eligible costs and associated mileages reported in Table B for Finance codes 21, 22, and 23)

ADHS Corridor					Subtotal		State Total
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban	
Length in miles					29.5	0.0	
Total Mileage (Rural + Urban)							29.5
Work Classification	Estimated Costs ($1,000)						
14. Preliminary Engineering: a. Location					15,829	0	15,829
b. Design					18,185	0	18,185
15. Right-of-Way: a. Acquisition					47,840	0	47,840
b. Relocation					8,822	0	8,822
16. Utility Adjustments					10,632	0	10,632
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure					219,850	0	219,850
18. Subbase, Base, Surfacing, Shoulders					31,728	0	31,728
19. Railroad Grade Separations					0	0	0
20. Highway Grade Separation without Ramps					0	0	0
21. Interchanges					0	0	0
22. Other Bridges, Tunnels, and Walls					47,353	0	47,353
23. Traffic Control					2,318	0	2,318
24. Environmental Mitigation					12,112	0	12,112
25. Roadside Improvements: a. Landscape Planting					0	0	0
b. Rest Areas, Overlooks					0	0	0
26. All Other Items					88,744	0	88,744
27. Subtotal (Lines 17 through 26)					402,105	0	402,105
28. Construction E & C (10.00% of line 27)					40,211	0	40,211
29. Total Cost of Construction (lines 27 and 28)					442,316	0	442,316
30. Total Estimated Cost (lines 14, 15, 16, & 29)					570,805	0	
31. Total Cost (Rural + Urban)							570,805

TABLE D
Prefinanced (AC-APD) Projects, Bond Issue Projects, and Advanced Right-of-Way Projects
(Projects Completed or in Authorized Status as of Sept 30, 2011)

State/Commonwealth of Virginia

Appalachian Corridor	Estimate Section (Milepost)	Project Number	Work Class	Rural or Urban	APD Funds	State Funds	Total Cost ($1,000)
Q	Q01.1.1A, Q01.1.2A,Q01.1.3A	APD-460-1(005)	Construction	Rural	9,520,970	2,380,243	11,901,210
		Totals			9,520,970	2,380,243	11,901,213

TABLE E

Federal Funds Earmarked for the ADHS and Not Obligated by Sept 30, 2011

State/Commonwealth of Virginia

Name of the Act	Section in the Act	ADHS Corridor	FHWA Approp. Code	Description of the Project	Total Amount of Federal Funds Authorized	Remaining Amount of Federal Funds not obligated