



SOUTH CAROLINA



2012 ESTIMATE
OF THE COST TO COMPLETE
THE APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM
IN THE STATE OF SOUTH CAROLINA

May 2012
(Data as of September 30, 2011)

Prepared by the South Carolina Department of Transportation

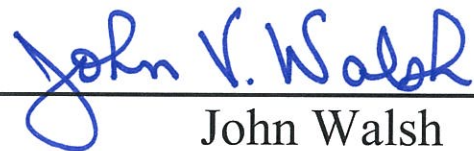
In Cooperation with the

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 State of South Carolina as of September 30, 2011 was prepared in accordance with the
2012 ADHS Cost Estimate Guidelines and Software Instruction Manual by the
South Carolina Department of Transportation in cooperation with the
Federal Highway Administration and the Appalachian Regional Commission.

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



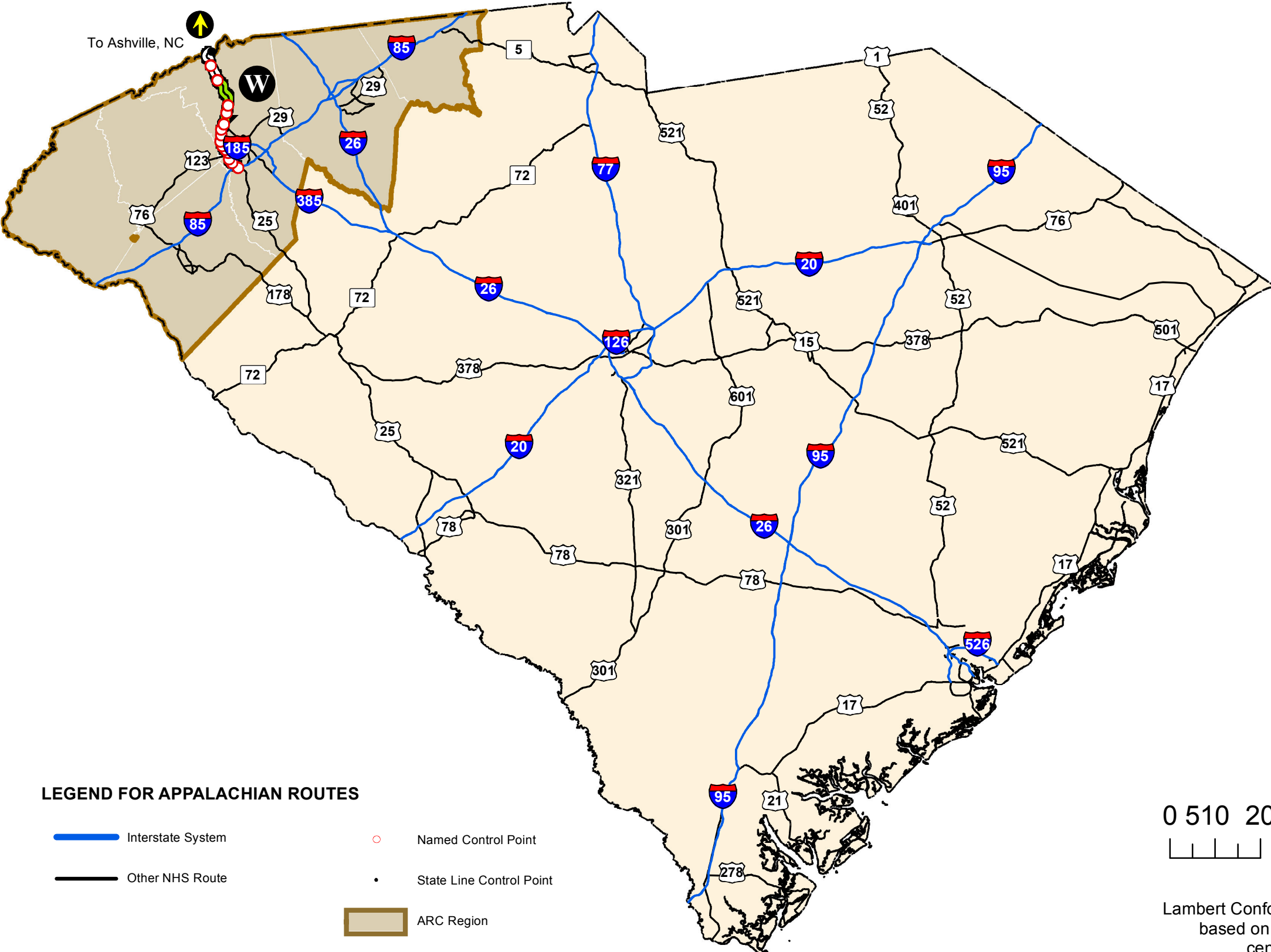
John Walsh
Deputy Secretary for Engineering
South Carolina Department of
Transportation



Bob Lee
Division Administrator
Federal Highway Administration

SOUTH CAROLINA PORTION OF APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM

STATE OF SOUTH CAROLINA



LEGEND FOR APPALACHIAN ROUTES

- ADHS Route Status**
- Complete
 - To be Completed
 - Nonparticipating

- Interstate System
- Other NHS Route

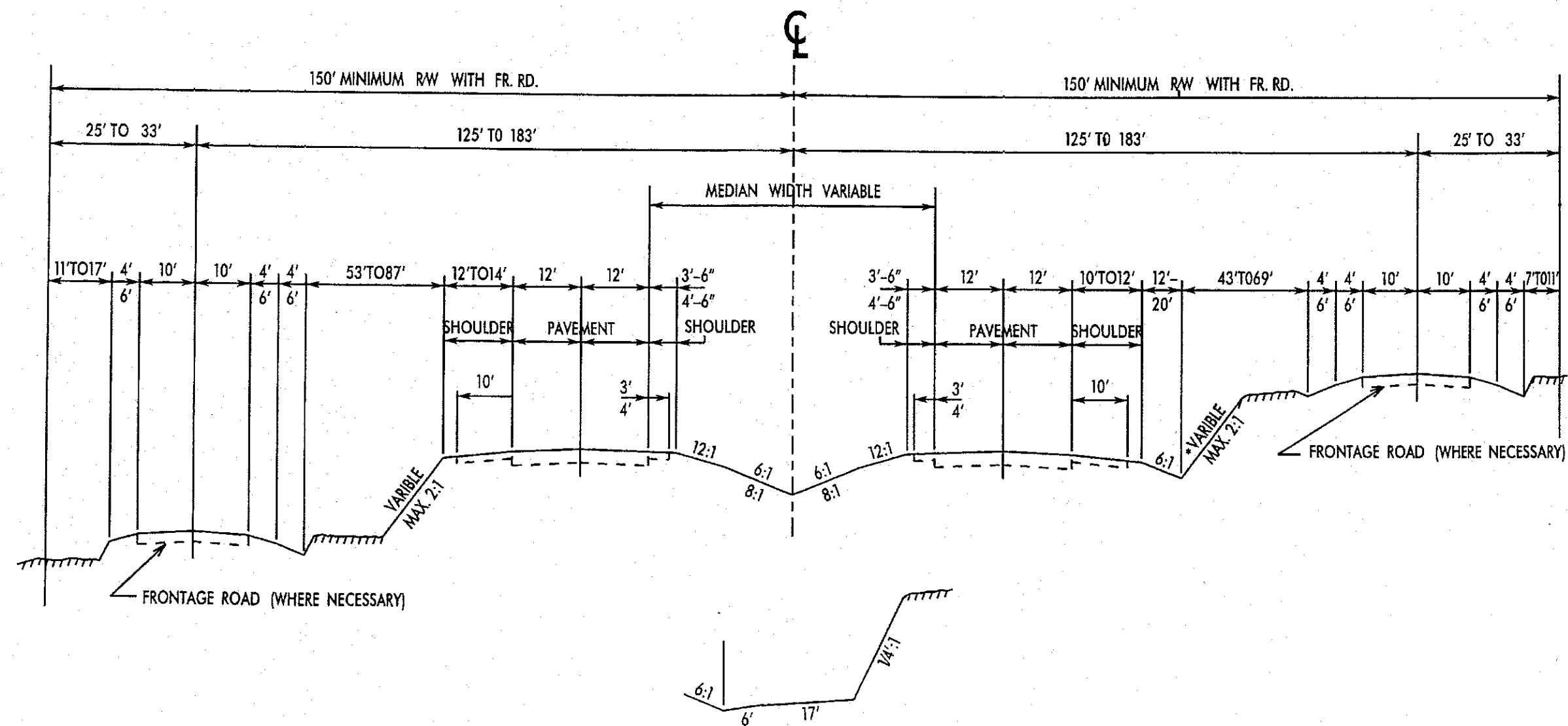
- Named Control Point
- State Line Control Point
- ARC Region



0 5 10 20 Miles

Lambert Conformal Conic regional projection
based on parallels 33 N and 45 N,
central meridian 96 W

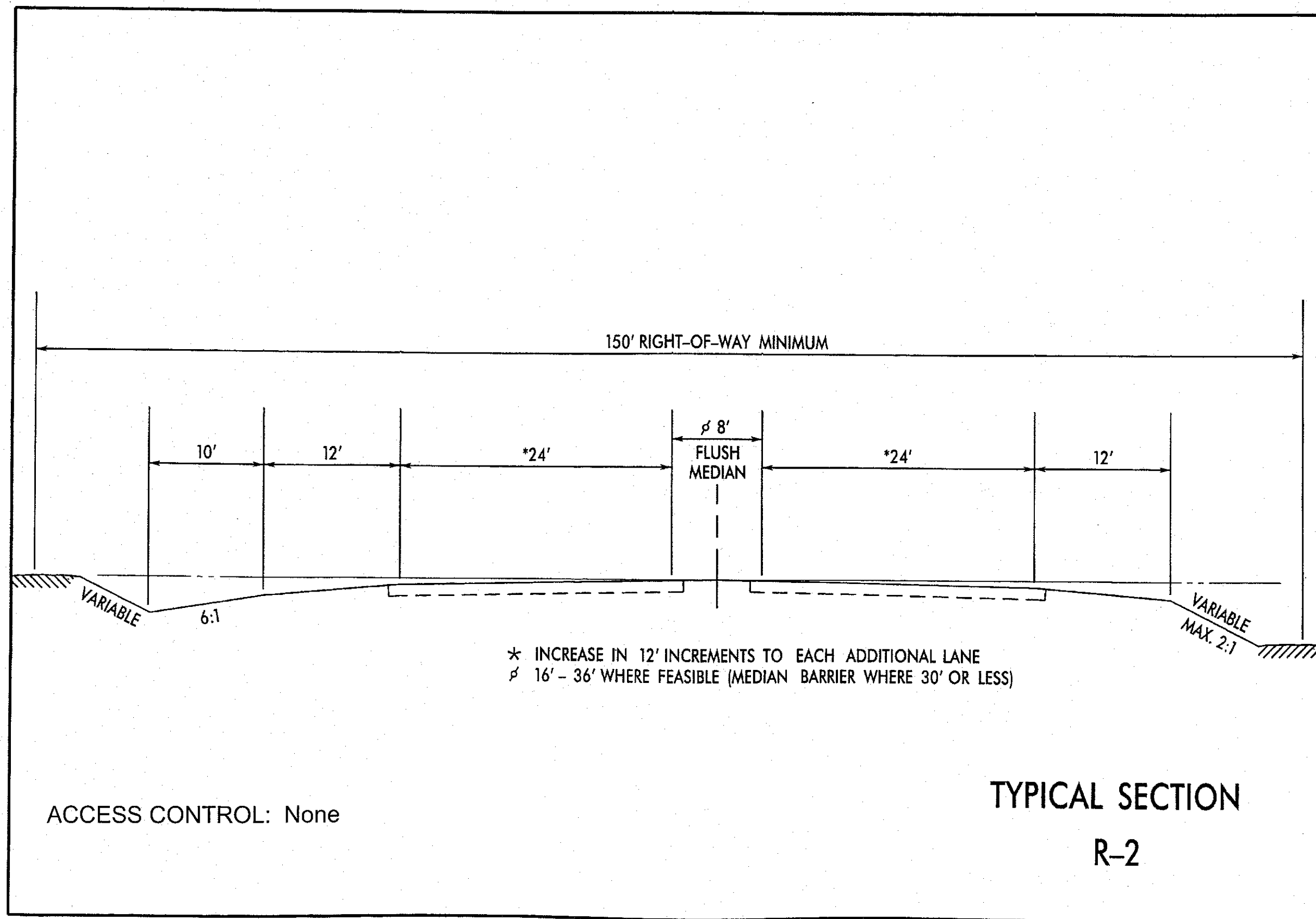
TABLE A Appalachian Corridor Segment Descriptions				
State/Commonwealth of South Carolina				Page 1 of 1
Corridor Letter	Principal Existing Route Numbers	Segment Descriptions	Eligible (miles)	Ineligible (miles)
W	US 25	From I-85 north to North Carolina State line	22.9	7.8
		Total	22.9	7.8

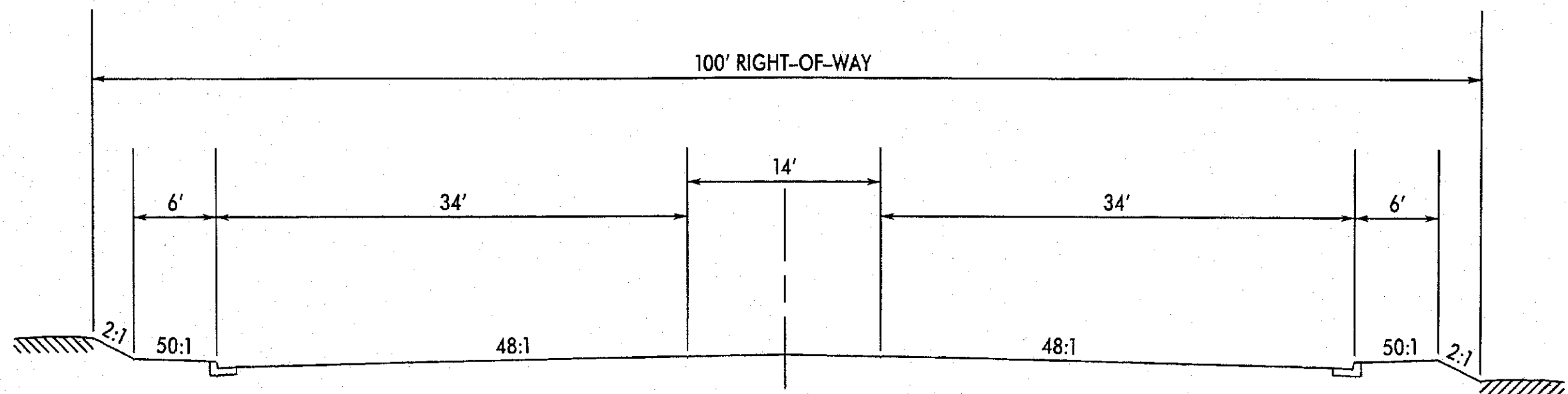


* THIS TYPICAL TO BE USED IN ROCK CUTS

ACCESS CONTROL: None/Partial

TYPICAL SECTION R-1

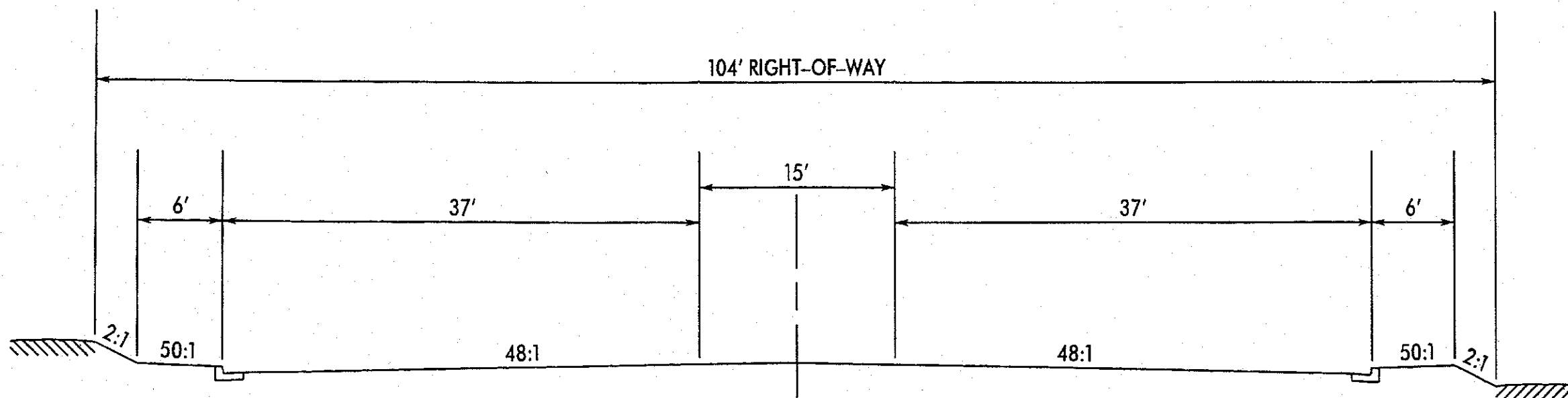




ACCESS CONTROL: None/Partial/Full

TYPICAL SECTION

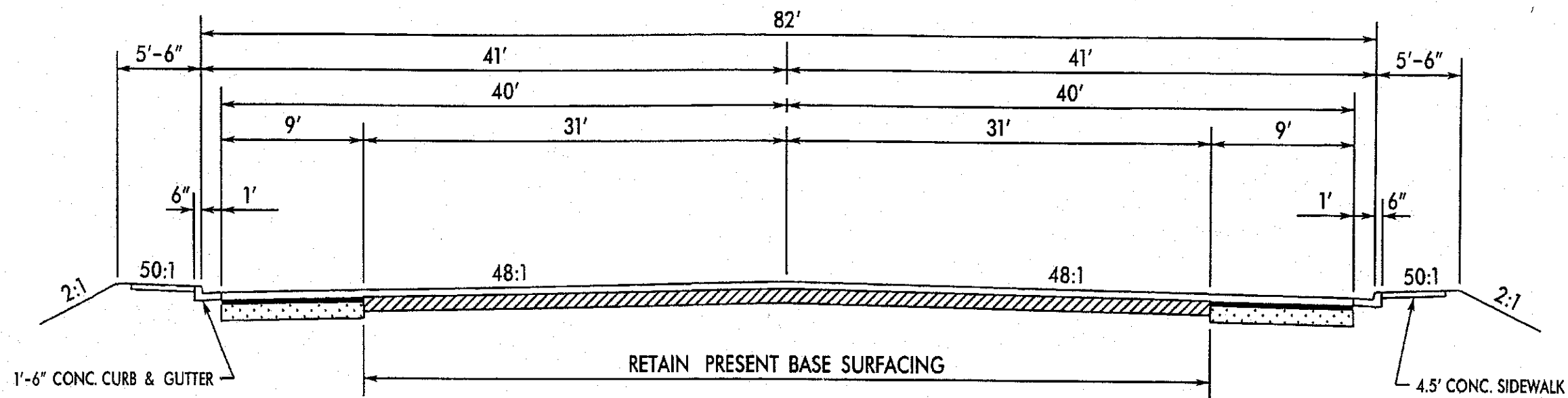
R-3

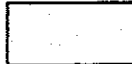


ACCESS CONTROL: None/Partial

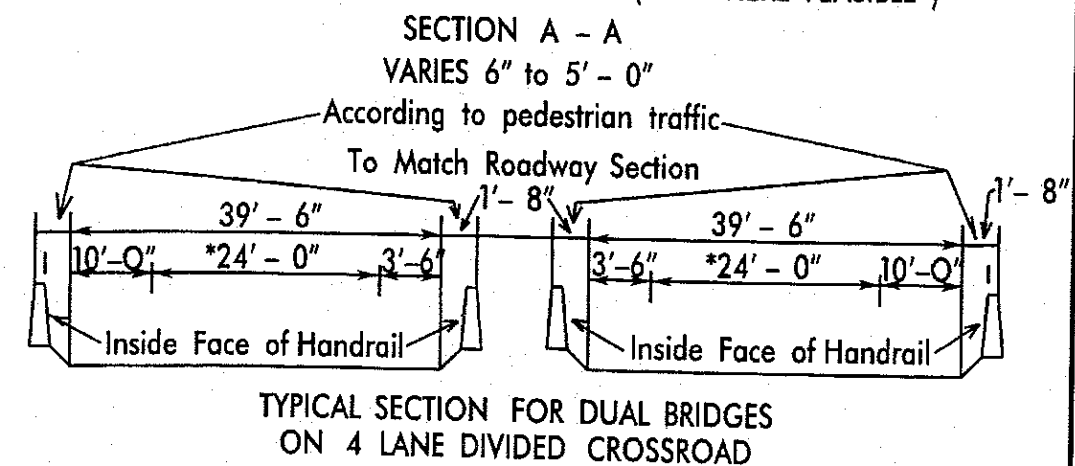
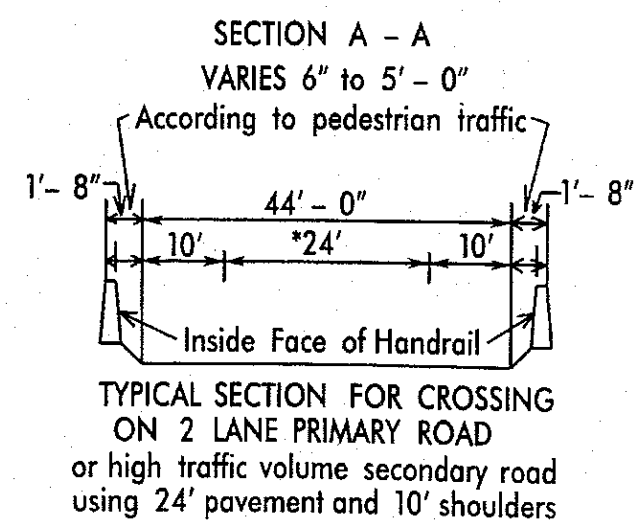
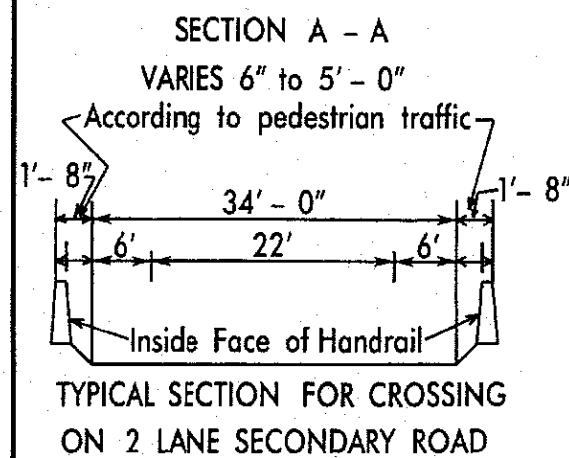
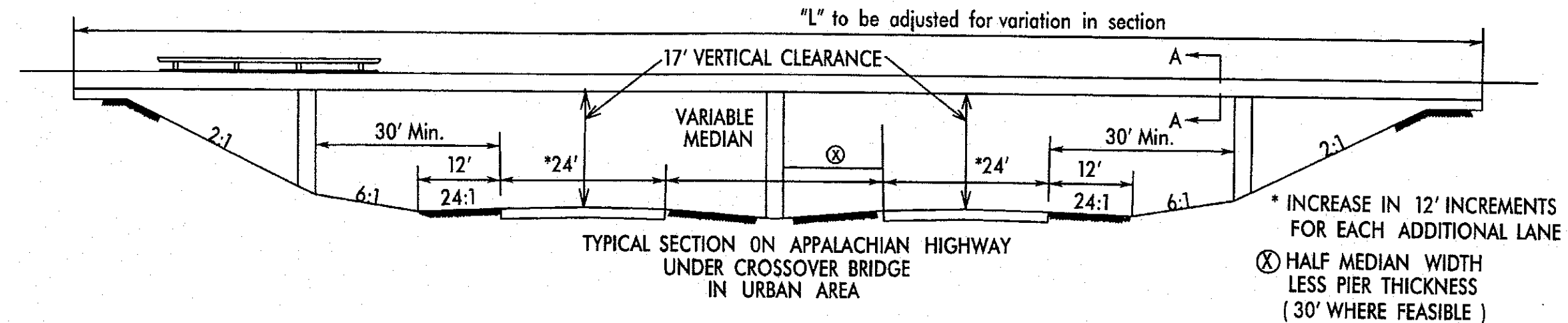
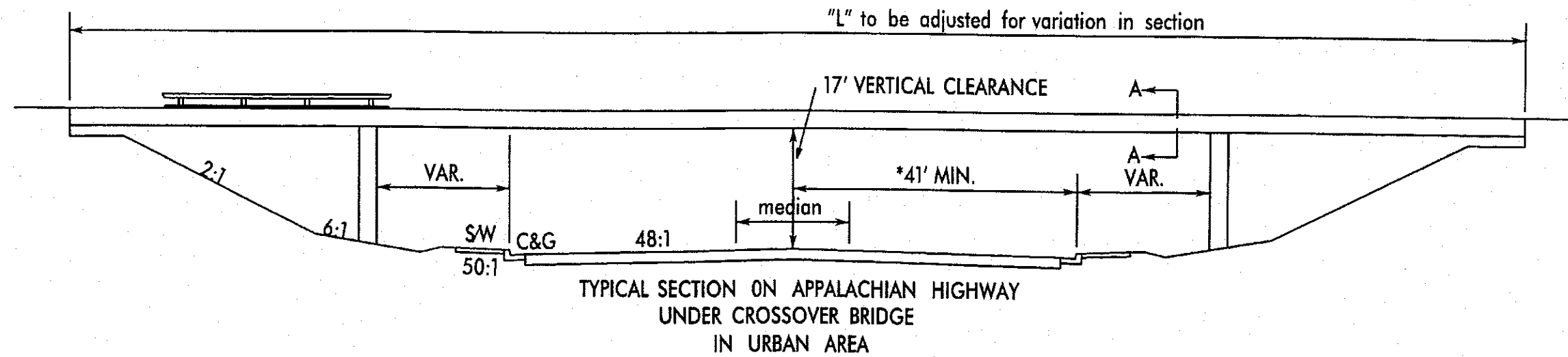
TYPICAL SECTION

R-4

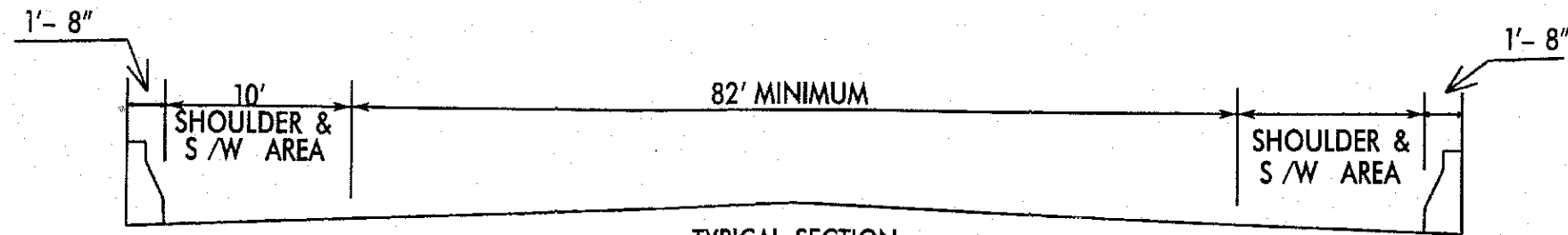


-  ASPHALTIC CONCRETE SURFACE (150 LBS./S.Y.)
-  ASPHALTIC CONCRETE BINDER COURSE (250 LBS./S.Y.)
-  ASPHALT AGGREGATE BASE COURSE (900 LBS./S.Y.)
-  EXISTING BASE & SURFACING

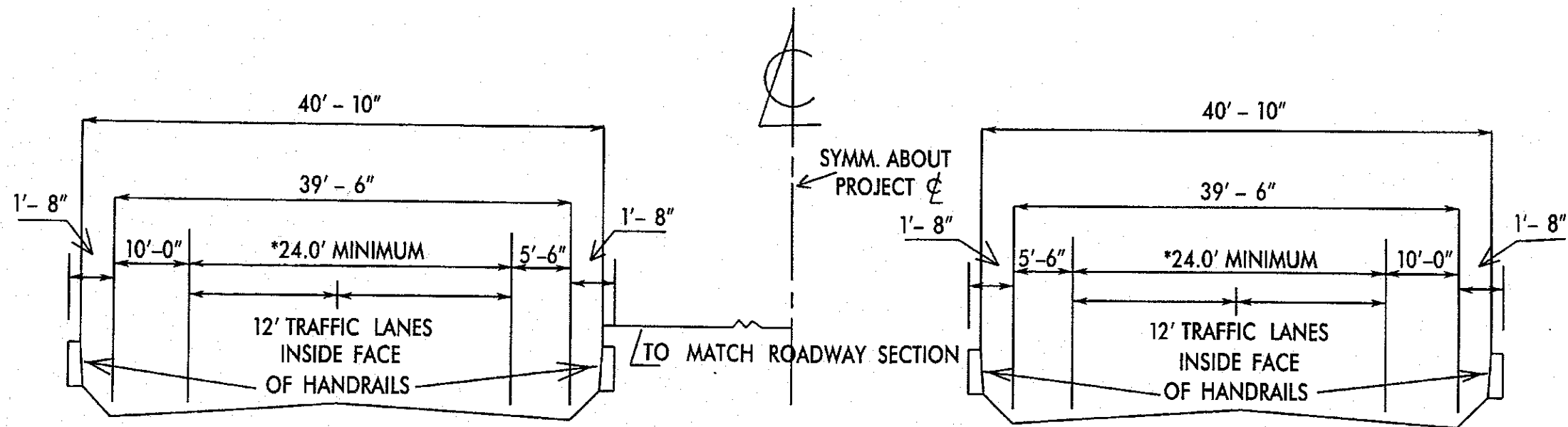
**TYPICAL SECTION SHOWING
STRUCTURAL DESIGN OF
PAVEMENT**



TYPICAL SECTIONS AT UNDERPASS



TYPICAL SECTION
SINGLE BRIDGE



TYPICAL SECTION
TWIN BRIDGES

* INCREASE IN 12' INCREMENTS
FOR EACH ADDITIONAL LANE

TYPICAL SECTIONS FOR BRIDGES

2012 Appalachian Development Highway System Cost Estimate

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

State: SC

ADHS Corridor: W

Section ID	W 0.0.0	W 0.1.0	W 0.1.1	W 0.1.2	W 0.2.0	W 0.2.1
LRS Milepoint: Beginning/Ending	23.190/25.490	25.490/26.390	26.390/26.990	26.990/28.190	28.190/28.790	28.790/30.390
Status	Completed	Completed	Completed	Completed	Completed	Final Construction
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.3	0.9	0.6	1.2	0.6	1.6
3. Class/Urban Code	U/1040	U/1040	U/1040	U/1040	U/1040	U/1040
4. Location:						
---- a. FIPS State/County/Congressional	45/045/04	45/045/04	45/045/04	45/045/04	45/045/04	45/045/04
---- b. HPMS Route/Subroute	000US00250/00	000US00250/00	000US00250/00	000US00250/00	000US00250/00	000US00250/00
---- c. HPMS Signed Route/Strip Map #	000US00250/W1	000US00250/W1	000US00250/W1	000US00250/W1	000US00250/W1	000US00250/W1
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	45	45	45	45	45	45
7. Traffic:						
---- a. ADT-Base Year (2010)	31,900	28,000	28,000	27,400	27,400	27,400
---- b. ADT-Year 2020	40,243	35,575	35,575	38,984	38,984	46,242
---- c. Design Year	2,003	2,006	2,018	2,010	2,023	2,023
---- d. ADT-Design Year	34,203	32,326	41,315	38,984	43,334	43,334
---- e. DHV-Design Year	3,420	3,233	4,132	3,898	4,333	4,333
---- f. % Truck Design Year(DHV)	5	5	5	5	5	5
---- g. % Truck Design Year(ADT)	8	8	8	8	8	8
---- 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	6	6	6	6	6	6
10. Typical X-Section of Reference/Access Control	R3/Full	R3/Partial	R4/Partial	R4/None	R4/None	R4/None
11. Right-of-Way Width(ft), prevailing	100	100	100	130	130	130
12. Median Width(ft), prevailing	14	14	15	15	15	15
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	3a2

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 Development Highway System Cost Estimate

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

State: SC

ADHS Corridor: W

Section ID	W 0.3.0	W 0.4.0	W 1.0.0	W 2.0.0	W 3.0.0	W 3.0.1
LRS Milepoint: Beginning/Ending	30.390/33.090	33.090/33.890	33.890/35.590	35.590/36.690	36.690/38.190	38.190/46.890
Status	Final Construction	NP	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.7	0.8	1.7	1.1	1.5	8.7
3. Class/Urban Code	U/1040	U/1040	U/1040	U/1040	U/1040	R/0
4. Location:						
---- a. FIPS State/County/Congressional	45/045/04	45/045/04	45/045/04	45/045/04	45/045/04	45/045/04
---- b. HPMS Route/Subroute	000US00250/00	000US00250/00	000US00250/00	000US00250/00	000US00250/00	000US00250/00
---- c. HPMS Signed Route/Strip Map #	000US00250/W1	000US00250/W1	000US00250/W1	000US00250/W1	000US00250/W1	000US00250/W1
5. Estimate Section/NHS Designation	1/NHS	2/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	45	45	45	45	45	55
7. Traffic:						
---- a. ADT-Base Year (2010)	17,200	15,500	15,500	15,500	18,300	13,850
---- b. ADT-Year 2020	25,039	19,099	19,099	19,099	20,690	21,037
---- c. Design Year	2,013	2,010	2,010	2,010	2,010	2,010
---- d. ADT-Design Year	28,024	19,099	19,099	19,099	20,690	21,037
---- e. DHV-Design Year	2,802	1,910	1,910	1,910	2,069	2,104
---- f. % Truck Design Year(DHV)	5	5	5	5	10	10
---- g. % Truck Design Year(ADT)	8	8	8	8	15	15
---- 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	6	6	6	4	4	4
10. Typical X-Section of Reference/Access Control	R4/None	R3/None	R3/None	R1/Partial	R1/None	R1/None
11. Right-of-Way Width(ft), prevailing	130	100	100	200	150	150
12. Median Width(ft), prevailing	15	14	14	26	26	26
13. Status of Development(Figure 4)	3a2	np	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 Development Highway System Cost Estimate

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

State: SC

ADHS Corridor: W

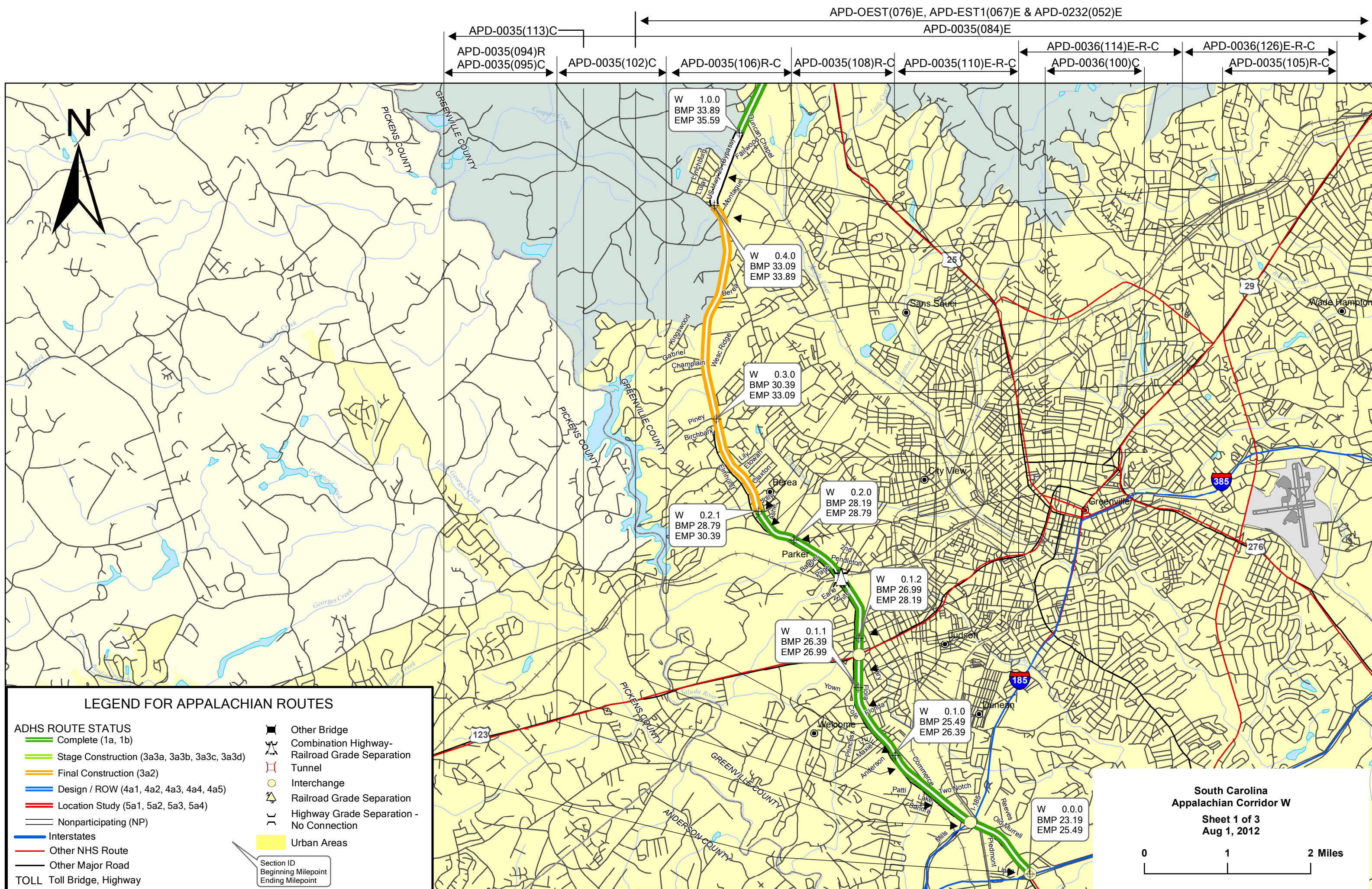
Section ID	W 3.1.0	W 4.0.0
LRS Milepoint: Beginning/Ending	46.890/50.090	50.090/53.890
Status	NP	NP
1. Finance Code	20	20
2. Section Length(Miles)	3.2	3.8
3. Class/Urban Code	R/0	R/0
4. Location:		
---- a. FIPS State/County/Congressional	45/045/04	45/045/04
---- b. HPMS Route/Subroute	000US00250/00	000US00250/00
---- c. HPMS Signed Route/Strip Map #	000US00250/W2	000US00250/W2
5. Estimate Section/NHS Designation	2/NHS	2/NHS
6. Design Speed(mph)	55	55
7. Traffic:		
---- a. ADT-Base Year (2010)	11,400	12,000
---- b. ADT-Year 2020	15,228	17,200
---- c. Design Year	2,010	2,010
---- d. ADT-Design Year	15,228	17,200
---- e. DHV-Design Year	1,523	1,720
---- f. % Truck Design Year(DHV)	10	6
---- g. % Truck Design Year(ADT)	15	11
---- h. Directional Distribution Factor	60	55
8. Number of Lanes to be Constructed this Estimate	0	0
9. Ultimate Number of Through Traffic Lanes	4	4
10. Typical X-Section of Reference/Access Control	R1/None	R2/None
11. Right-of-Way Width(ft), prevailing	350	800
12. Median Width(ft), prevailing	36	8
13. Status of Development(Figure 4)	np	np
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 Development Highway System Cost Estimate

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

State: SCADHS Corridor: W

Section ID LRS Milepoint 1. Finance Code 2. Section Length(Miles) 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)	Corridor Total	Rural Subtotal	Urban Subtotal
	30.70	15.70	15.00
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 Separations 20. Highway Grade Separations 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)			



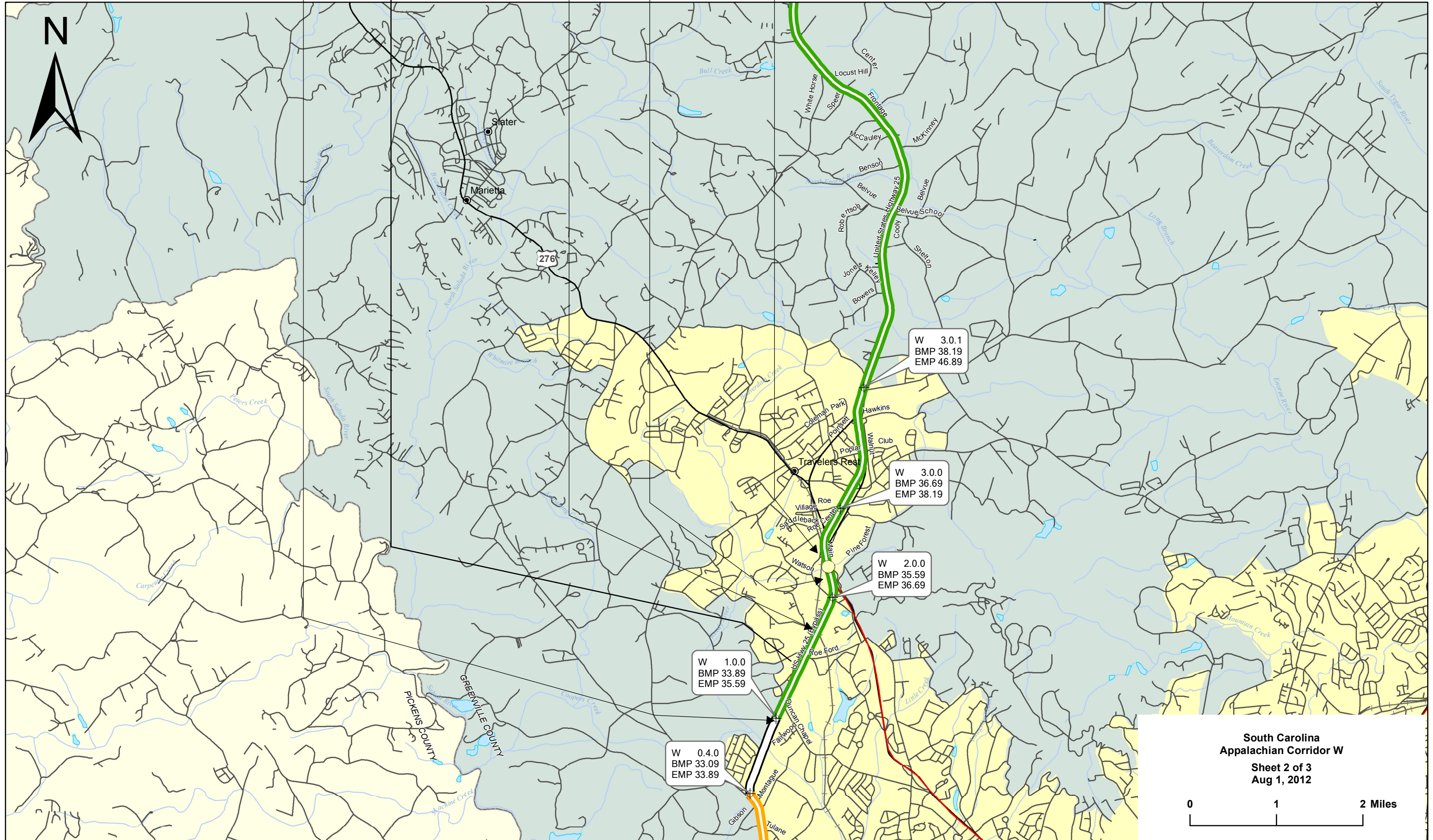
APD-0035(064)E

APD-0035(072)E-R-C

APD-0035(078)C

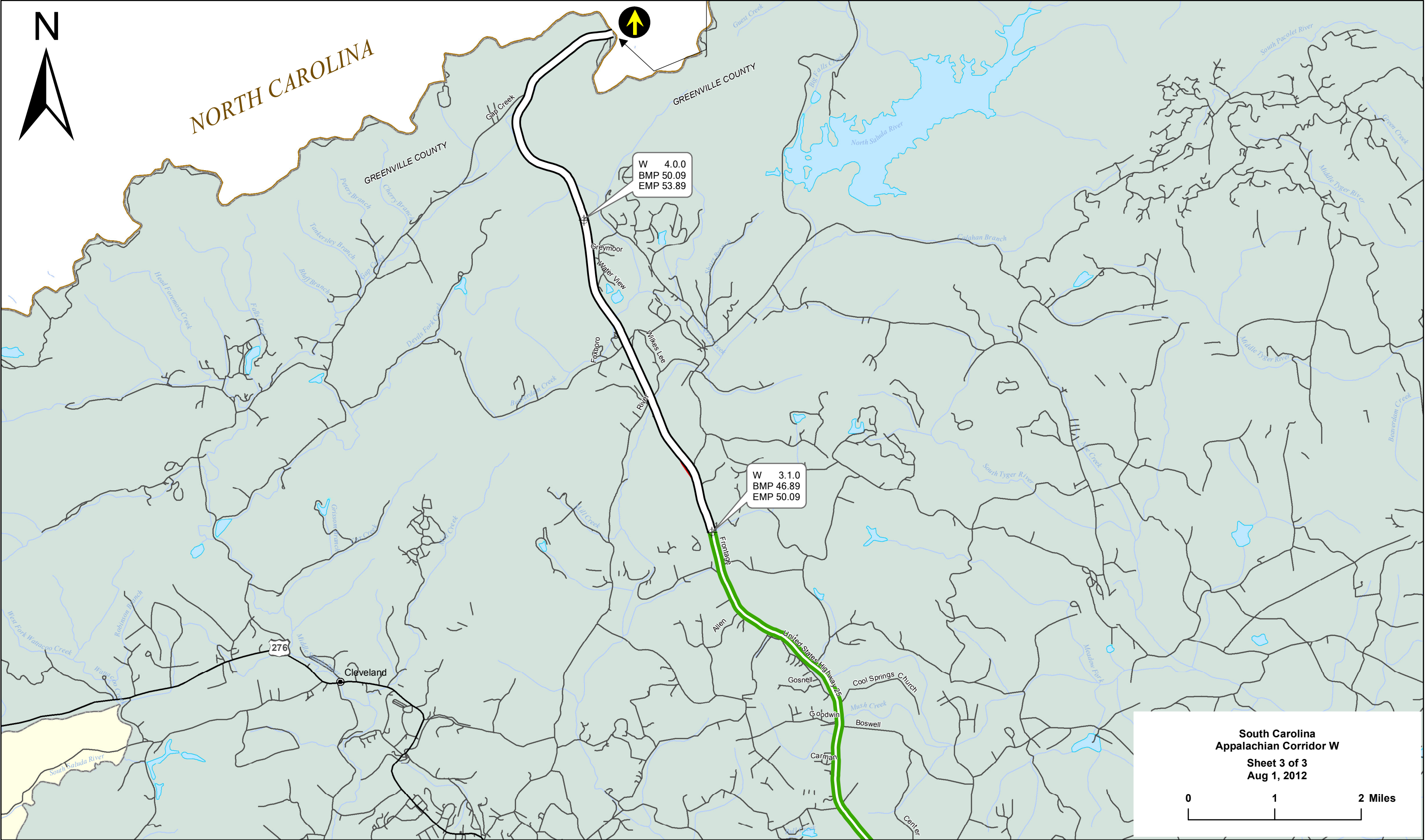
APD-0035(063)R-C

N



South Carolina
Appalachian Corridor W
Sheet 2 of 3
Aug 1, 2012

0 1 2 Miles



2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of South Carolina

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	W				Subtotal		State Total
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban	
Length in miles	0.0	0.0			0.0	0.0	
Total Mileage (Rural + Urban)	0.0						0.0
Work Classification	Estimated Costs (\$1,000)						
14. Preliminary Engineering: a. Location	0	0			0	0	0
b. Design	0	0			0	0	0
15. Right-of-Way: a. Acquisition	0	0			0	0	0
b. Relocation	0	0			0	0	0
16. Utility Adjustments	0	0			0	0	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	0	0			0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0			0	0	0
19. Railroad Grade Separations	0	0			0	0	0
20. Highway Grade Separation without Ramps	0	0			0	0	0
21. Interchanges	0	0			0	0	0
22. Other Bridges, Tunnels, and Walls	0	0			0	0	0
23. Traffic Control	0	0			0	0	0
24. Environmental Mitigation	0	0			0	0	0
25. Roadside Improvements: a. Landscape Planting	0	0			0	0	0
b. Rest Areas, Overlooks	0	0			0	0	0
26. All Other Items	0	0			0	0	0
27. Subtotal (Lines 17 through 26)	0	0			0	0	0
28. Construction E & C (10.00% of line 27)	0	0			0	0	0
29. Total Cost of Construction (lines 27 and 28)	0	0			0	0	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)	0	0			0	0	
31. Total Cost (Rural + Urban)	0						0

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 South Carolina

Appalachian Corridor	Estimate Section (Milepost)	Project Number	Work Class	Rural or Urban	APD Funds	State Funds	Total Cost (\$1,000)
		Totals					

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

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	