

NORTH CAROLINA

2007 ESTIMATE
OF THE COST TO COMPLETE
THE APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM
IN THE STATE OF NORTH CAROLINA

May 2007
(Data as of September 30, 2006)

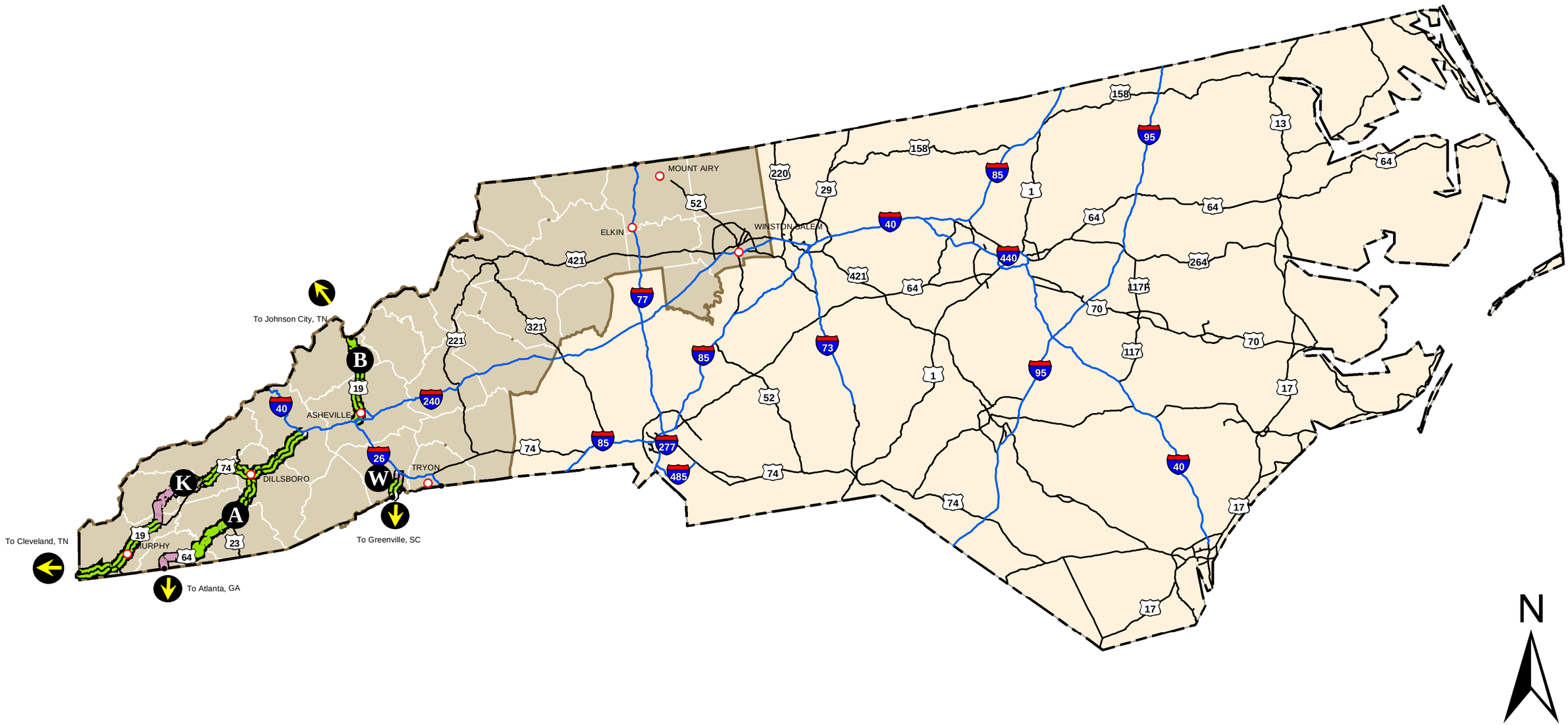
Prepared by the North Carolina Department of Transportation

In Cooperation with the

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

NORTH CAROLINA PORTION OF APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM

STATE OF NORTH 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 20 40 80 Miles

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

This 2007 Estimate of the Cost of Completing the Appalachian Development Highway System in the State of North Carolina as of September 30, 2006 was prepared in accordance with the 2007 ADHS Cost Estimate Guidelines and Software Instruction Manual by the North Carolina Department of Transportation in cooperation with the Federal Highway Administration and the Appalachian Regional Commission.

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

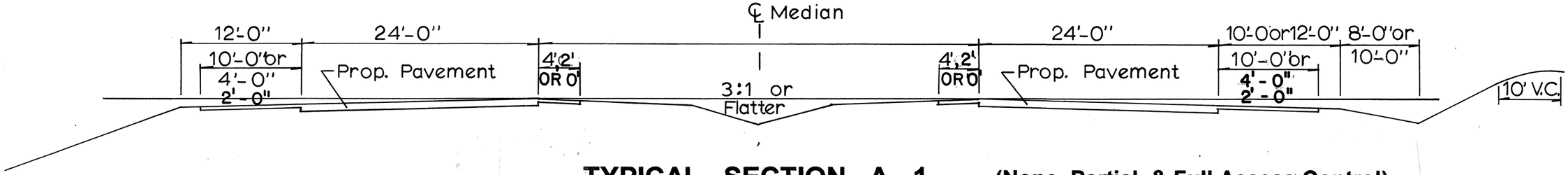
Lyndo Tippett
Secretary of Transportation
North Carolina Department of Transportation

Donald J. Voelker
for John F. Sullivan, III
Division Administrator
Federal Highway Administration

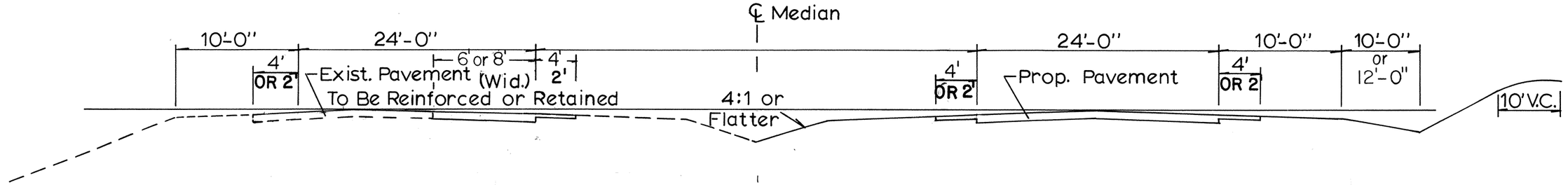
TABLE A
Appalachian Corridor Segment Descriptions

State/Commonwealth of North Carolina

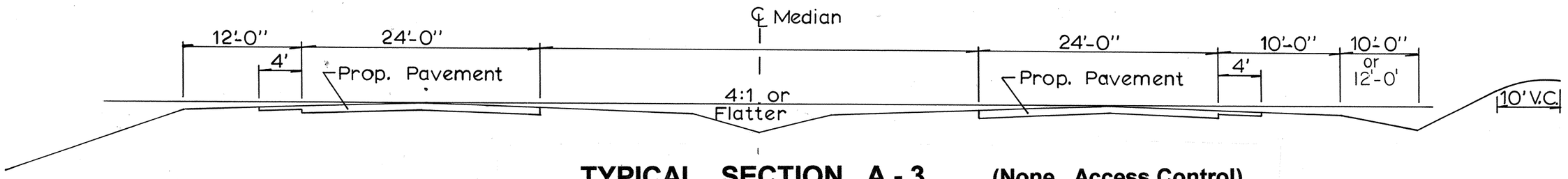
Corridor Letter	Principal Existing Route Numbers	Segment Descriptions	Eligible (miles)	Ineligible (miles)
A	US 64, US 23	GEORGIA STATE LINE TO CLYDE	81.9	
A	US 64, US 23	CLYDE TO I-40		0.8
B	US 23	I-40 TO TENNESSEE STATE LINE	31	0.4
K	US 19	TENNESSEE STATE LINE TO DILLSBORO	83.9	
W	US 25	SOUTH CAROLINA STATE LINE TO I-26	7.5	1.5
		Total	204.3	2.7



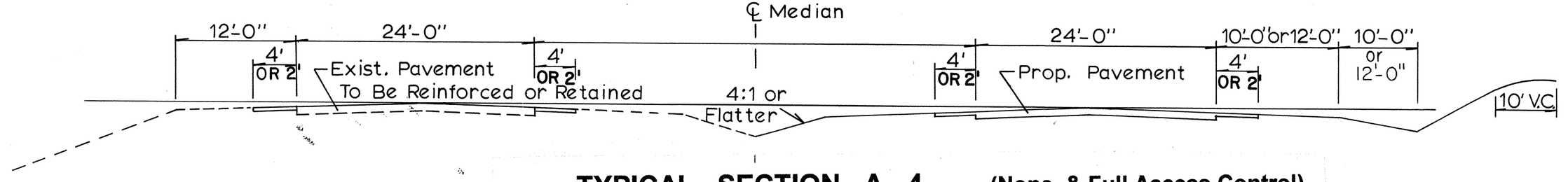
TYPICAL SECTION A - 1 (None, Partial, & Full Access Control)



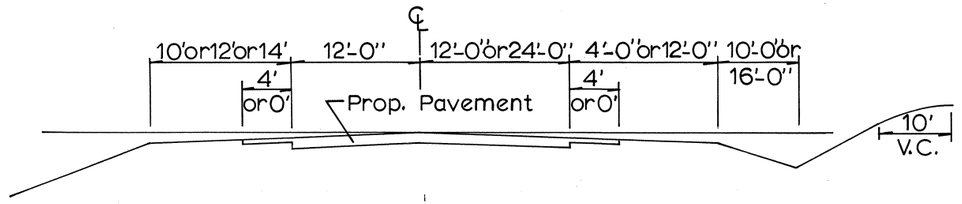
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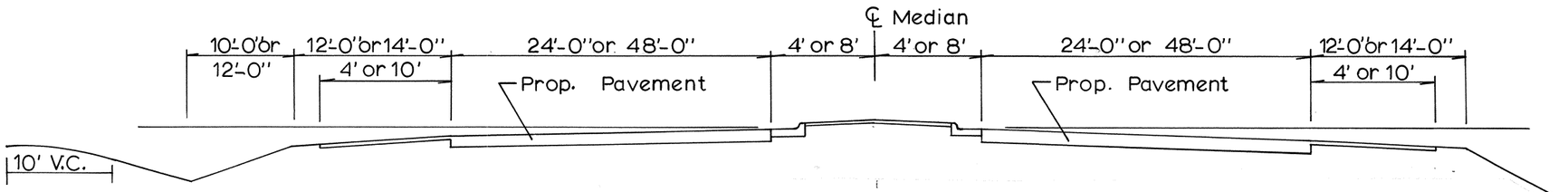
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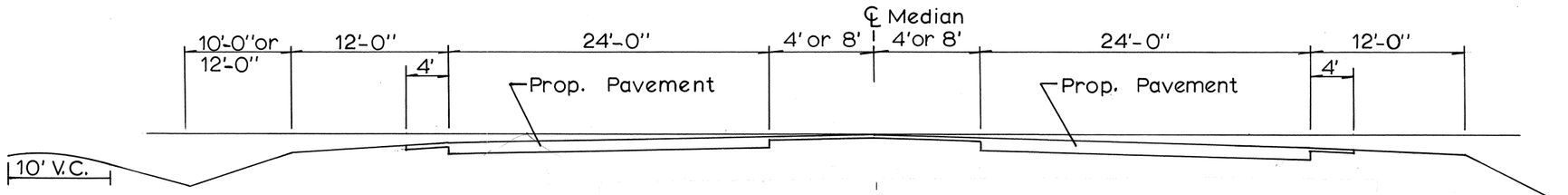
TYPICAL SECTION A - 4 (None, & Full Access Control)



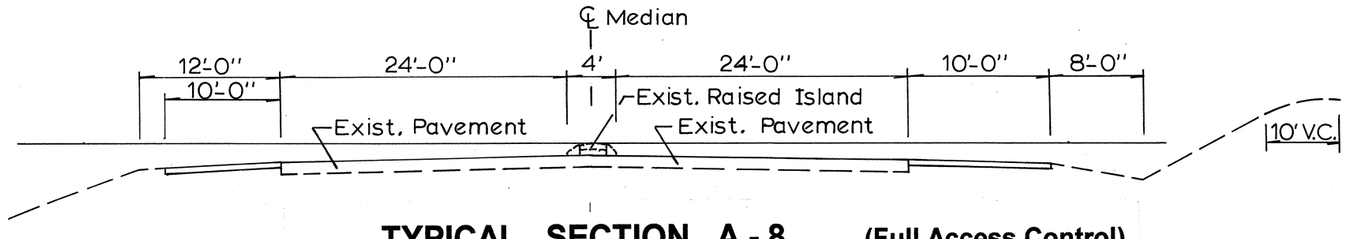
TYPICAL SECTION A - 5 (None, & Partial Access Control)



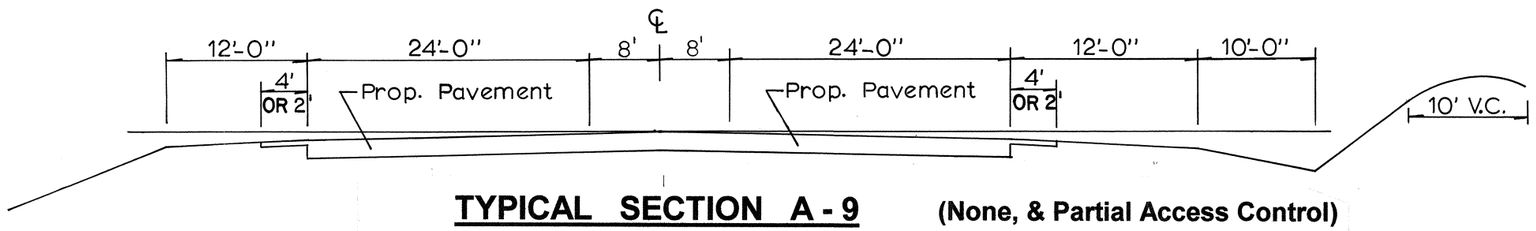
TYPICAL SECTION A - 6 (None, Partial, & Full Access Control)



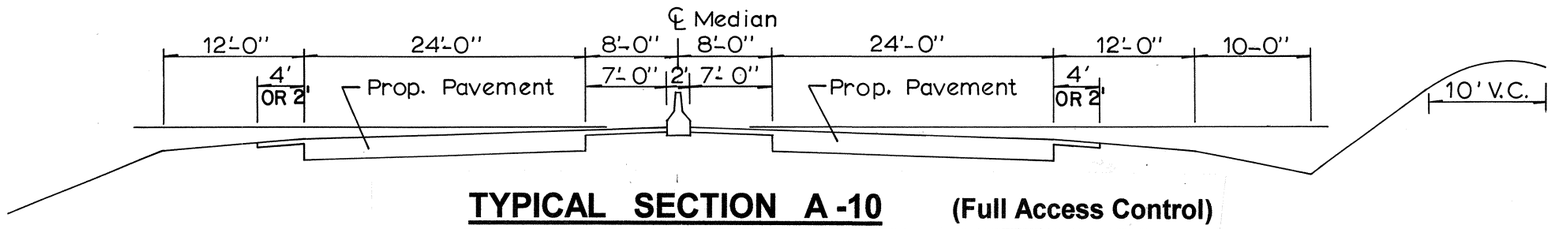
TYPICAL SECTION A - 7 (Full Access Control)



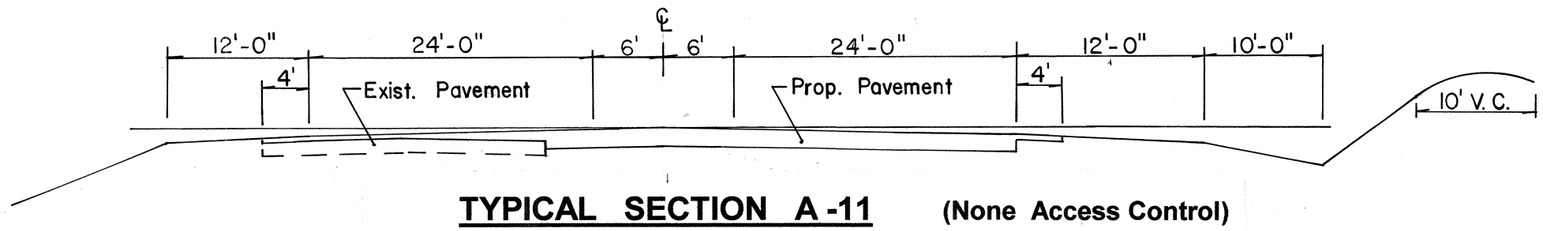
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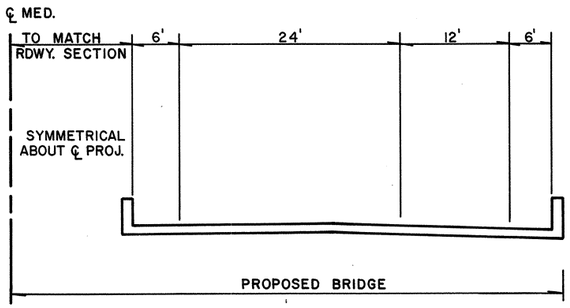
TYPICAL SECTION A - 9 (None, & Partial Access Control)



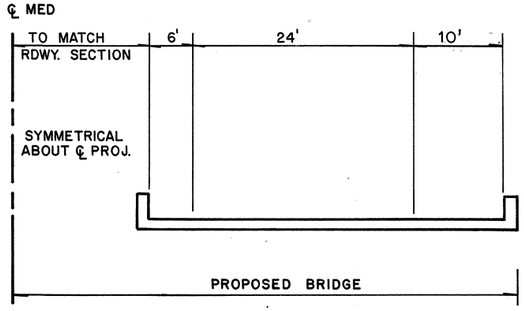
TYPICAL SECTION A -10 (Full Access Control)



TYPICAL SECTION A -11 (None Access Control)

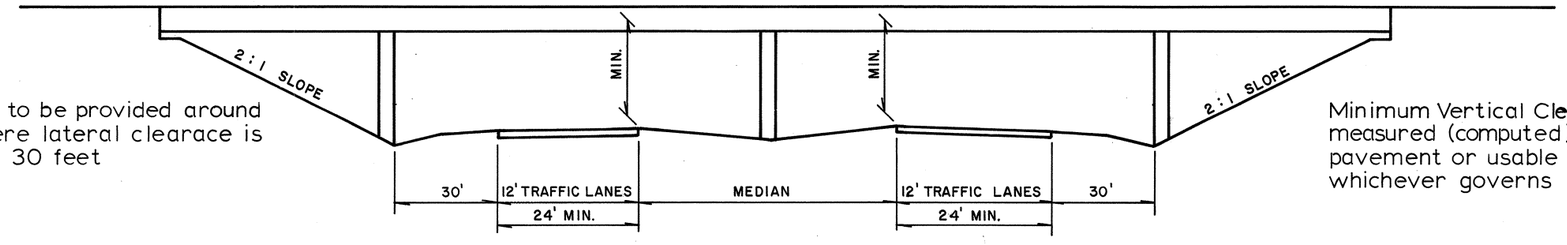


TYPICAL HALF-SECTION FOR RURAL & URBAN OVERHEADS AT AN INTERCHANGE B-1



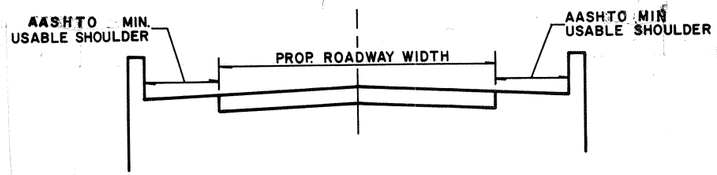
TYPICAL HALF-SECTION FOR RURAL & URBAN BRIDGES & OVERHEADS B-2

Guardrail to be provided around piers where lateral clearace is less than 30 feet

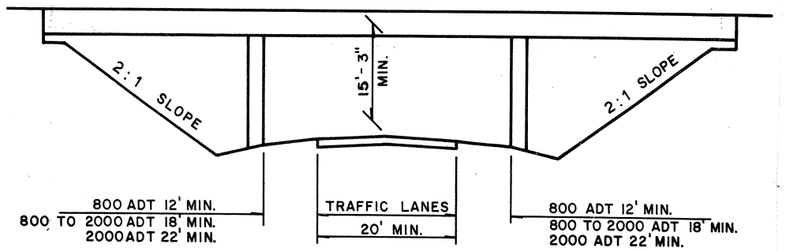


Minimum Vertical Clearance = 16'-6" measured (computed) anywhere over pavement or usable shoulder width, whichever governs

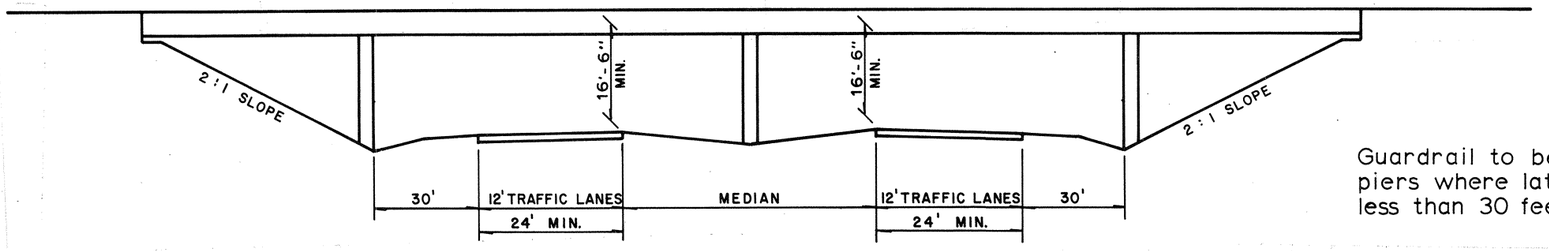
UNDERPASS GRADE SEPARATION B-3



TYPICAL SECTION FOR CROSS ROAD OVER APD HIGHWAY
B-4

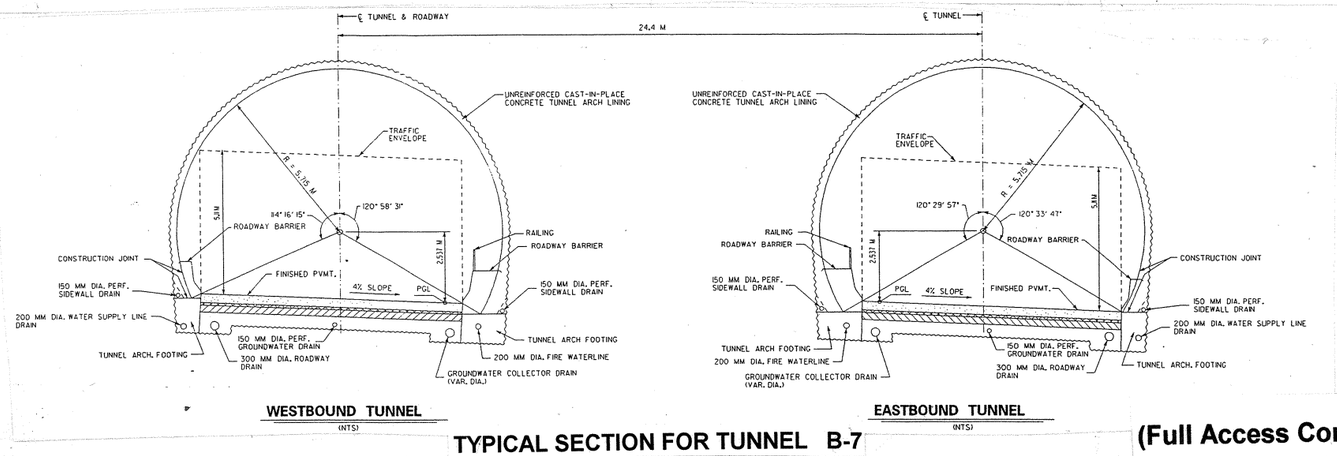


PROPOSED RURAL & URBAN OVERHEAD GRADE SEPARATION
B-5



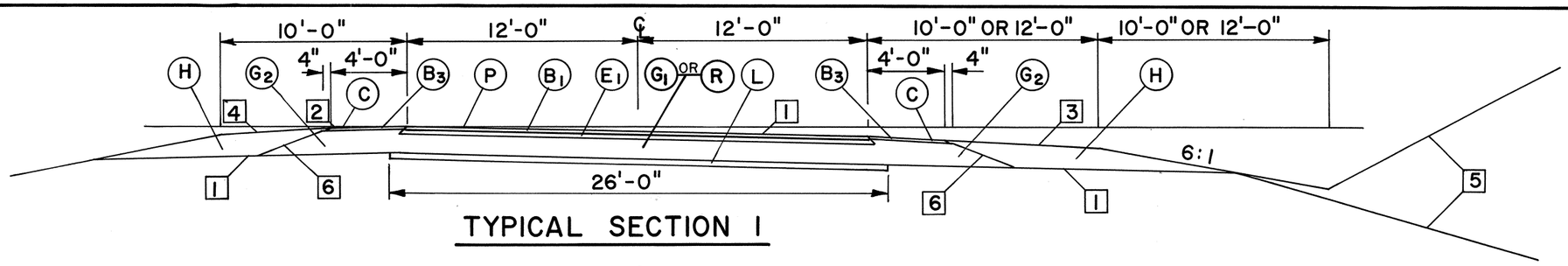
Guardrail to be provided around piers where lateral clearance is less than 30 feet

OVERPASS GRADE SEPARATION B-6

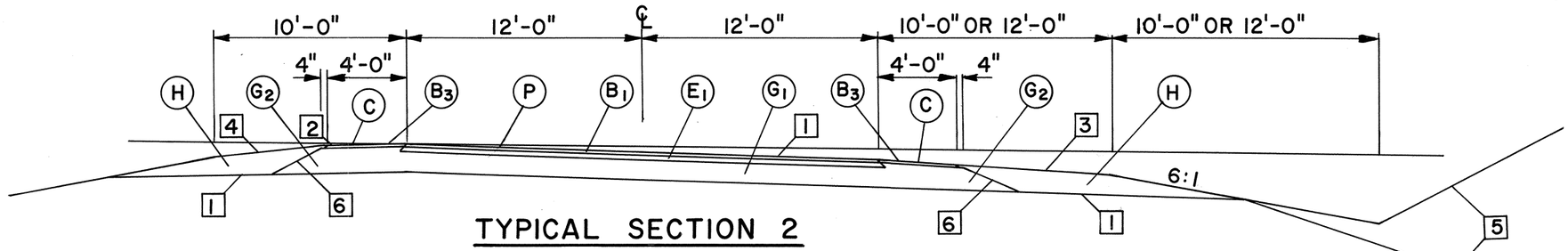


TYPICAL SECTION FOR TUNNEL B-7

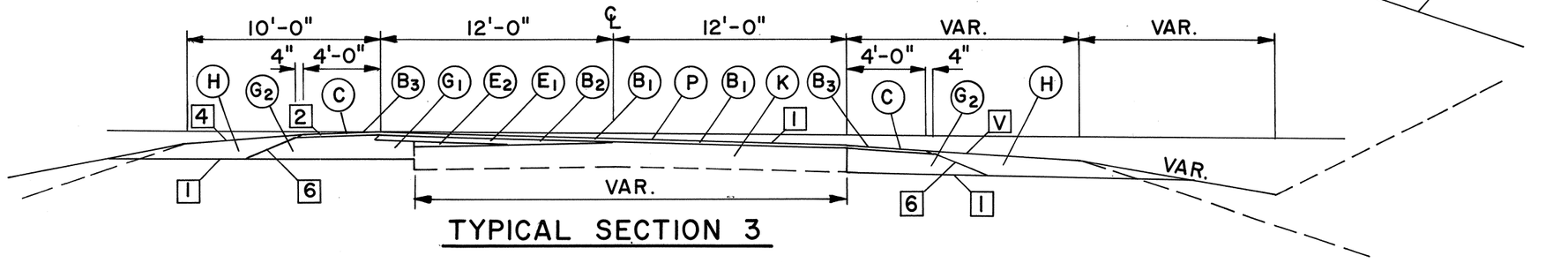
(Full Access Control)



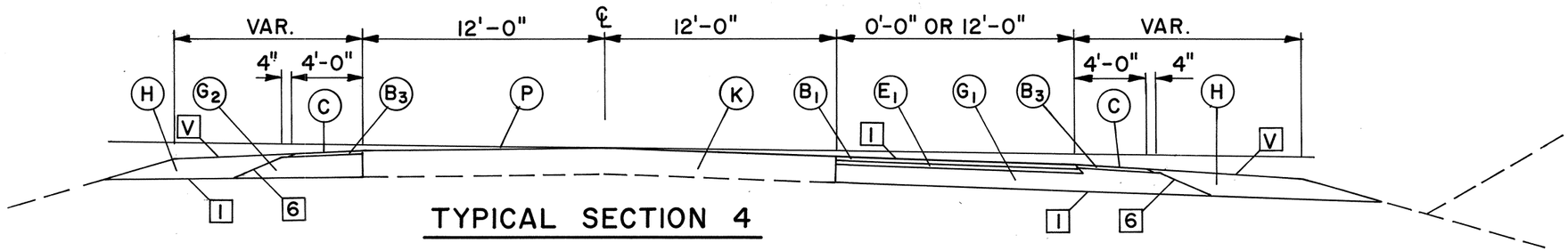
TYPICAL SECTION 1



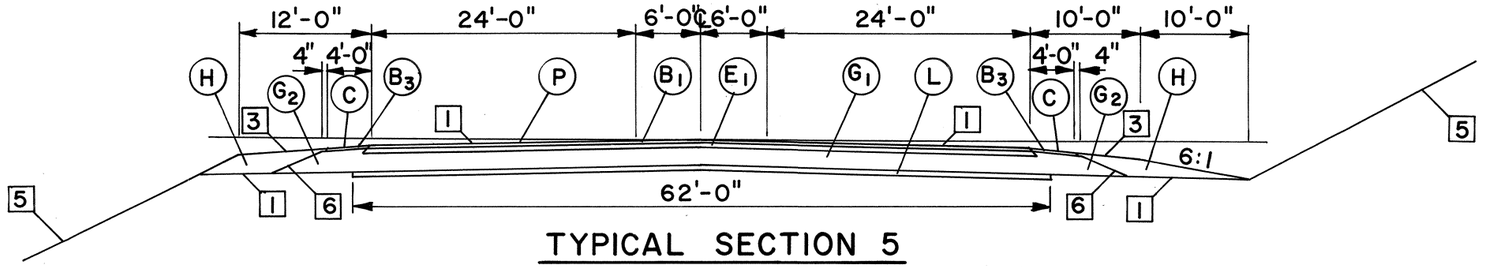
TYPICAL SECTION 2



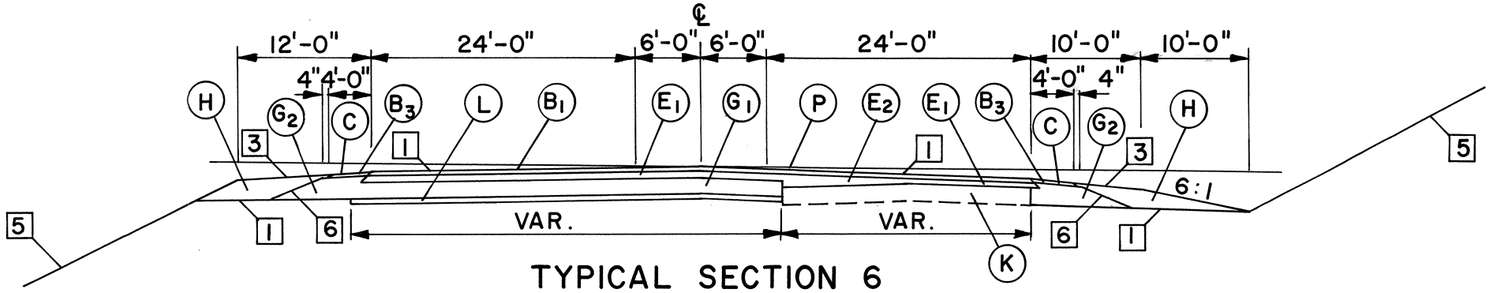
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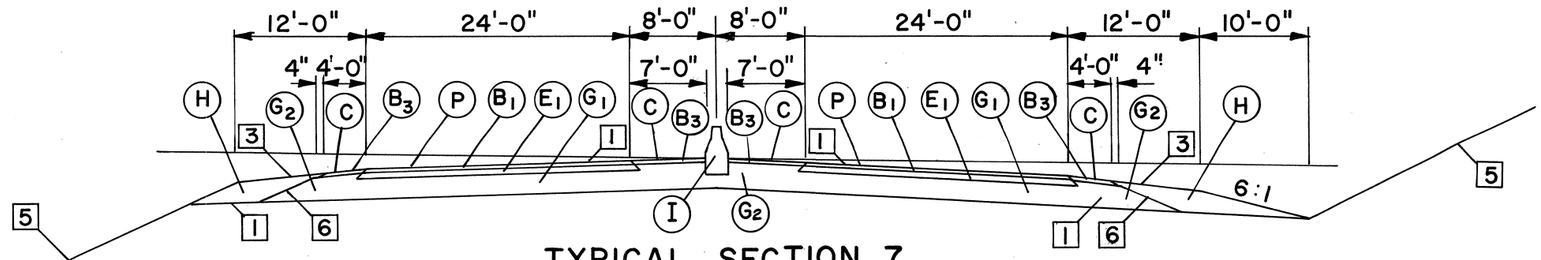
TYPICAL SECTION 4



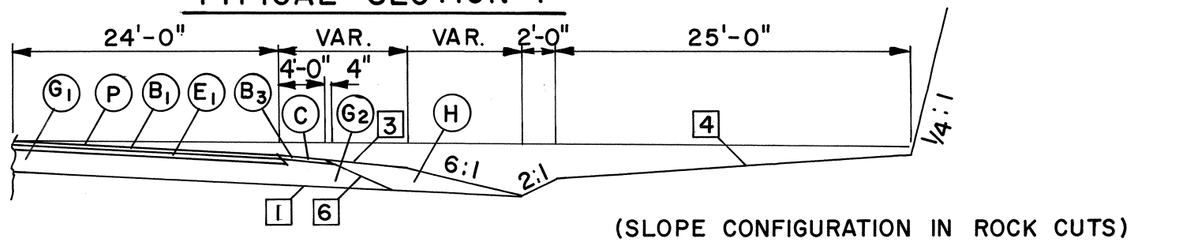
TYPICAL SECTION 5



TYPICAL SECTION 6



TYPICAL SECTION 7



(SLOPE CONFIGURATION IN ROCK CUTS)

TYPICAL SECTION 8

PAVEMENT SCHEDULE

ITEM	DESCRIPTION
(B1)	1" OR 2" BITUMINOUS CONCRETE SURFACE CO., TYPE I-2, AT 105 OR 210 LBS. PER SQ. YD.
(B2)	BITUMINOUS CONCRETE SURFACE CO., TYPE I-2 (WEDGE) AT 105 LBS. PER SQ. YD. PER INCH DEPTH.
(B3)	1" BITUMINOUS CONCRETE SURFACE CO., TYPE I-2 (SHOULDERS) AT 105 LBS. PER SQ. YD.
(C)	BITUMINOUS SURFACE TREATMENT, MAT AND SEAL, SHOULDERS
(E1)	1½" OR 2" OR 2½" OR 3½" BITUMINOUS CONCRETE BINDER CO., TYPE H, AT 165 OR 220 OR 275 OR 330 LBS. PER SQ. YD.
(E2)	BITUMINOUS CONCRETE BINDER CO., TYPE H (WEDGE), AT 110 LBS. PER SQ. YD. PER INCH DEPTH.
(G1)	10" OR 12" OR 13" A. B. C.
(G2)	A. B. C. (SHOULDERS)
(H)	SHOULDER BORROW.
(I)	CONCRETE MEDIAN BARRIER.
(K)	EXISTING PAVEMENT.
(L)	SUBGRADE TO BE STABILIZED WITH 200 -400 LBS. PER SQ. YD. OF A. B. C. MIXED WITH TOP 2" TO 4" OF SUBGRADE SOIL AT LOCATIONS DIRECTED BY THE ENGINEER.
(P)	5/8" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE J-1, AT 70 LBS. PER SQ. YD.
(R)	CEMENT TREATMENT A. B. C.

SLOPE LEGEND

SYMBOL	DESCRIPTION
1	1/4 INCH PER FOOT SLOPE
2	1/2 INCH PER FOOT SLOPE
3	3/4 INCH PER FOOT SLOPE
4	1 INCH PER FOOT SLOPE
5	N. C. STANDARD SLOPES OR AS RECOMENDED BY GEOLOGY DEPT.
6	2 1/2 : 1 SLOPE
V	VARIABLE SLOPE

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**A01.0.0**	**A02.0.0**	**A02.1.0**	**A03.0.0**	**A04.0.0**	**A05.0.0**
LRS Milepoint: Beginning/Ending	**0.000/2.640**	**2.640/3.540**	**7.950/8.820**	**8.820/12.650**	**12.650/17.760**	**17.760/26.840**
Status	**Stage Construction**	**Stage Construction**	**Completed**	**Design/RoW**	**Completed**	**Completed**
1. Finance Code	21	21	20	22	20	20
2. Section Length(Miles)	2.6	0.9	0.9	3.8	5.1	9.1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/043/11	37/043/11	37/043/11	37/043/11	37/043/11	37/043/11
---- *b. HPMS Route/Subroute*	0000030069/00	0000030069/00	0000020064/00	0000020064/00	0000020064/00	0000020064/00
---- *c. HPMS Signed Route/Strip Map #*	0000030069/A1	0000030069/A1	0000020064/A1	0000020064/A1	0000020064/A1	0000020064/A2
5. Estimate Section/NHS Designation	1/None	1/None	1/None	1/None	1/None	1/None
6. Design Speed(mph)	60	60	60	60	60	50
7. Traffic:						
---- *a. ADT-Base Year (2005)*	8,200	9,900	10,100	8,500	4,800	3,300
---- *b. ADT-Year 2015*	11,000	13,300	13,200	11,000	6,100	4,300
---- *c. Design Year*	2,035	2,035	2,035	2,035	1,988	1,989
---- *d. ADT-Design Year*	16,700	20,000	19,200	15,900	3,100	2,100
---- *e. DHV-Design Year*	2,000	2,400	2,300	1,900	248	168
---- *f. % Truck Design Year(DHV)*	12	12	12	8	4	4
---- *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	2	2	0	2	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	2	2
10. Typical X-Section of Reference/Access Control	A4/None	A11/None	A11/None	A4/None	A5/None	A5/None
11. Right-of-Way Width(ft), prevailing	250	100	200	250	300	400
12. Median Width(ft), prevailing	44	12	12	44	0	0
13. Status of Development(Figure 4)	3a3a	3a3a	1a	4a3	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	1,149	362	0	1,450	0	0
15. Right-of-Way:						
---- *a. Acquisition*	13,087	0	0	12,102	0	0
---- *b. Relocation*	317	0	0	403	0	0
16. Utility Adjustments	588	674	0	490	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	2,722	596	0	4,874	0	0
18. Subbase, Base, Surfacing, Shoulders	2,123	947	0	4,347	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	2,718	384	0	448	0	0
23. Traffic Control	299	123	0	294	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	401	105	0	508	0	0
27. Subtotal(lines 17 thru 26)	**8,263**	**2,155**	**0**	**10,471**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**826**	**216**	**0**	**1,047**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**9,089**	**2,370**	**0**	**11,518**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**25,442**	**3,577**	**0**	**27,261**	**0**	**0**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**A06.0.0**	**A06.1.0**	**A06.2.0**	**A06.3.0**	**A07.0.0**	**A08.0.0**
LRS Milepoint: Beginning/Ending	**0.000/2.310**	**2.310/7.600**	**7.600/8.070**	**8.070/9.880**	**9.880/12.650**	**12.650/14.110**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.3	5.3	0.5	1.8	2.8	1.5
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/113/11	37/113/11	37/113/11	37/113/11	37/113/11	37/113/11
---- *b. HPMS Route/Subroute*	0000020064/00	0000020064/00	0000020064/00	0000020064/00	0000020064/00	0000020064/00
---- *c. HPMS Signed Route/Strip Map #*	0000020064/A2	0000020064/A2	0000020064/A2	0000020064/A2	0000020064/A2	0000020064/A3
5. Estimate Section/NHS Designation	1/None	1/None	1/None	1/None	1/None	1/None
6. Design Speed(mph)	50	50	50	50	60	60
7. Traffic:						
---- *a. ADT-Base Year (2005)*	3,300	2,600	4,600	4,600	6,600	12,300
---- *b. ADT-Year 2015*	4,300	3,300	5,800	5,800	8,300	16,100
---- *c. Design Year*	1,992	1,995	1,992	1,992	1,990	1,990
---- *d. ADT-Design Year*	2,500	2,600	2,900	2,900	3,300	7,300
---- *e. DHV-Design Year*	200	208	233	232	264	584
---- *f. % Truck Design Year(DHV)*	4	4	4	4	4	4
---- *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	2	2	2	4	4	4
10. Typical X-Section of Reference/Access Control	A5/None	A5/None	A5/Partial	A1/Partial	A1/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	0	0	0	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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**A09.0.0**	**A10.0.0**	**A11.0.0**	**A11.1.0**	**A12.0.0**	**A12.2.0**
LRS Milepoint: Beginning/Ending	**12.260/14.410**	**14.410/16.160**	**16.160/18.130**	**18.130/21.900**	**0.000/2.540**	**2.540/6.290**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.2	1.7	2.1	3.6	2.5	3.7
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/113/11	37/113/11	37/113/11	37/113/11	37/099/11	37/099/11
---- *b. HPMS Route/Subroute*	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00
---- *c. HPMS Signed Route/Strip Map #*	0000020023/A3	0000020023/A3	0000020023/A3	0000020023/A3	0000020023/A3	0000020023/A3
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 (2005)*	23,100	18,800	18,200	15,400	13,900	16,200
---- *b. ADT-Year 2015*	31,000	24,900	20,500	20,300	18,400	21,500
---- *c. Design Year*	1,990	1,990	1,998	1,998	1,998	2,001
---- *d. ADT-Design Year*	11,900	8,700	9,700	6,900	6,900	15,288
---- *e. DHV-Design Year*	952	696	776	552	552	1,223
---- *f. % Truck Design Year(DHV)*	4	4	4	4	4	4
---- *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	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Partial	A1/Partial	A1/Partial	A9/Partial	A9/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	400
12. Median Width(ft), prevailing	40	40	40	12	12	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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**A13.0.0**	**A13.1.0**	**A13.2.0**	**A14.0.0**	**A15.0.0**	**A16.0.0**
LRS Milepoint: Beginning/Ending	**6.290/9.630**	**9.630/9.920**	**9.920/10.600**	**10.600/12.660**	**12.660/14.720**	**14.720/15.860**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	3.3	0.3	0.7	2.1	2.1	1.1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/099/11	37/099/11	37/099/11	37/099/11	37/099/11	37/099/11
---- *b. HPMS Route/Subroute*	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00
---- *c. HPMS Signed Route/Strip Map #*	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4
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 (2005)*	18,100	16,000	15,400	20,900	17,000	23,600
---- *b. ADT-Year 2015*	23,700	21,000	19,400	28,400	22,700	31,000
---- *c. Design Year*	2,002	2,002	1,990	1,990	1,990	1,990
---- *d. ADT-Design Year*	20,467	20,467	7,500	10,900	16,000	12,200
---- *e. DHV-Design Year*	1,637	1,637	600	872	1,280	732
---- *f. % Truck Design Year(DHV)*	4	4	4	4	4	3
---- *g. % Truck Design Year(ADT)*	8	8	8	8	8	6
---- *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	A1/Partial	A9/Partial	A7/Full	A1/Full	A1/Full	A1/None
11. Right-of-Way Width(ft), prevailing	500	300	350	350	350	350
12. Median Width(ft), prevailing	40	12	36	36	36	36
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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**A17.0.0**	**A17.1.0**	**A17.5.0**	**A18.0.0**	**A18.5.0**	**A19.0.0**
LRS Milepoint: Beginning/Ending	**15.860/22.690**	**22.690/23.320**	**0.000/0.630**	**0.630/9.570**	**12.010/12.380**	**12.380/14.930**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	6.8	0.5	0.8	8.9	0.4	2.5
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/099/11	37/099/11	37/087/11	37/087/11	37/087/11	37/087/11
---- *b. HPMS Route/Subroute*	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020019/00	0000020019/00
---- *c. HPMS Signed Route/Strip Map #*	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4	0000020019/A5	0000020019/A5
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	65	65	70	70	50
7. Traffic:						
---- *a. ADT-Base Year (2005)*	23,600	22,900	33,500	33,500	46,900	36,900
---- *b. ADT-Year 2015*	31,000	30,000	44,400	44,400	62,900	46,700
---- *c. Design Year*	1,995	1,988	1,988	1,985	1,985	1,987
---- *d. ADT-Design Year*	12,000	11,000	11,000	23,100	23,100	22,000
---- *e. DHV-Design Year*	720	660	660	1,386	1,386	1,320
---- *f. % Truck Design Year(DHV)*	3	3	3	3	3	3
---- *g. % Truck Design Year(ADT)*	6	6	6	6	6	6
---- *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	A4/None	A6/None	A6/None	A6/Full	A6/Full	A6/Full
11. Right-of-Way Width(ft), prevailing	350	350	350	280	280	400
12. Median Width(ft), prevailing	40	16	16	16	16	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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**A20.0.0**
LRS Milepoint: Beginning/Ending	**12.260/13.260**
Status	**NP**
1. Finance Code	20
2. Section Length(Miles)	0.8
3. Class/Urban Code	R/0
4. Location:	
---- *a. FIPS State/County/Congressional*	37/087/11
---- *b. HPMS Route/Subroute*	0000020074/00
---- *c. HPMS Signed Route/Strip Map #*	0000020074/A5
5. Estimate Section/NHS Designation	2/NHS
6. Design Speed(mph)	60
7. Traffic:	
---- *a. ADT-Base Year (2005)*	27,000
---- *b. ADT-Year 2015*	35,800
---- *c. Design Year*	1,975
---- *d. ADT-Design Year*	8,500
---- *e. DHV-Design Year*	510
---- *f. % Truck Design Year(DHV)*	3
---- *g. % Truck Design Year(ADT)*	6
---- *h. Directional Distribution Factor*	65
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	A8/Full
11. Right-of-Way Width(ft), prevailing	300
12. Median Width(ft), prevailing	4
13. Status of Development(Figure 4)	np

Estimated Cost($1,000) per Work Classification

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

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: A

Section ID	**Corridor**	**Rural**	**Urban**
LRS Milepoint	**Total**	**Subtotal**	**Subtotal**
1. Finance Code			
2. Section Length(Miles)	82.70	82.70	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 (2005)*			
---- *b. ADT-Year 2015*			
---- *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*	0	0	0
---- *b. Design*	2,961	2,961	0
15. Right-of-Way:			
---- *a. Acquisition*	25,189	25,189	0
---- *b. Relocation*	720	720	0
16. Utility Adjustments	1,752	1,752	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	8,192	8,192	0
18. Subbase, Base, Surfacing, Shoulders	7,417	7,417	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	3,550	3,550	0
23. Traffic Control	716	716	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	1,014	1,014	0
27. Subtotal(lines 17 thru 26)	20,889	20,889	0
28. Construction Engineering(10.00000000% of line 27)	2,089	2,089	0
29. Total Cost of Construction(lines 27 & 28)	22,978	22,978	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	56,280	56,280	0

APD 16-1(13) E
APD 16-1(18) E
APD 16-1(20) E
APD 16-1(19) C
APD 16-1(21) R-C
APD 16-1(17) R
APD 16-1(5) R-C
APD 16-1(1) E-R

A 02.1.0
BMP 7.95
EMP 8.82

A 02.0.0
BMP 2.64
EMP 3.54

A 03.0.0
BMP 8.82
EMP 12.65

A 01.0.0
BMP 0
EMP 2.64

A 04.0.0
BMP 12.65
EMP 17.76

A 05.0.0
BMP 17.76
EMP 26.84

Hayesville
HAYESVILLE
CLAY COUNTY
GEORGIA
To Atlanta, GA

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

N

North Carolina
Appalachian Corridor A
Sheet 1 of 6
Aug 1, 2007

0 1 2 Miles

APD 16-1(5) R-C
APD 16-1(3) E-R
APD 16-1(7) R
APD 16-1(4) E
APD 16-1(1) E-R
APD 16-1(8) R-C
APD 16-1(9) C
APD 16-1(10) C
APD 16-1(11) C
APD 16-1(12) E-C

A 06.3.0
BMP 8.07
EMP 9.88

A 06.2.0
BMP 7.6
EMP 8.07

A 06.1.0
BMP 2.31
EMP 7.6

A 06.0.0
BMP 0
EMP 2.31

A 05.0.0
BMP 17.76
EMP 26.84

A 04.0.0
BMP 12.65
EMP 17.76

64
MACON COUNTY
CLAY COUNTY
Rainbow Springs Rd
Poplar Cove Rd
Poplar Cove Creek
St Johns Rd
Muskrat Creek
Boardtree Branch
Brushy Branch
Right Prong Rough Fork
Jarrett Creek
Roaring Fork
Bryson Branch
Factory Branch
Tate Branch
Bluff Branch
Passmore Branch
Fishprong Branch
Davenport Branch
Buck Creek Rd
Buck Creek Rd
Murphy Rd
Black Branch
National Forest Rd
Little Buck Creek
Old Hwy 64 E
S Brooks Cove Rd
Muskrat Creek Rd
E Vineyard Rd
Rackle Cove Rd
Bailey Rd
Eagle Fork Rd
Thumping Creek
Lynch Branch
Buck Creek
Big Shoal Branch
Lowery Creek
Carpenters Branch
Ash Flat Branch
Long Branch
Little Indian Creek
Little Lyman Prong
Devils Prong
Bearpen Creek
Cunningham Creek
Chogo Creek
Joe Hicks Branch
Stephens Branch
Big Turn Creek
Little Turn Creek
Copperas Creek
Turnpike Creek
Mill Creek
Huddleston Creek
Buck Creek
Barnards Creek
Chairmaker Branch
Sugar Branch
Peckerwood Branch

N

North Carolina
Appalachian Corridor A
Sheet 2 of 6
Aug 1, 2007

0 1 2 Miles

APD 16-1(11) C
APD 16-1(7) R
APD 16-1(4) E
APD 16-1(6) R-C
APD 16-1(2) E-R
APD 5-1(3) E-R
APD 5-1(6) R-C
APD 5-1(7) R
APD 5-1(2) E
APD 5-1(11) C
APD 5-1(12) C
APD 5-1(9) C

N

A 12.0.0
BMP 0
EMP 2.54

A 11.1.0
BMP 18.13
EMP 21.9

A 11.0.0
BMP 16.16
EMP 18.13

A 10.0.0
BMP 14.41
EMP 16.16

A 09.0.0
BMP 12.26
EMP 14.41

A 08.0.0
BMP 12.65
EMP 14.11

A 07.0.0
BMP 9.88
EMP 12.65

FRANKLIN
MACON
JACKSON COUNTY
MACON COUNTY

North Carolina
Appalachian Corridor A

Sheet 3 of 6
Aug 1, 2007

0 1 2 Miles

1 2

APD 5-1(2) E
APD 5-1(7) R
APD 5-1(9) C
APD 5-1(13) C
APD 5-1(14) R
APD 5-1(8) E
APD 12-2(19) R-C
APD 5-1(5) R-C
APD 5-1(4) E-R
APD 12-2(24) C
APD 12-2(19) R-C
APD 12-2(11) E-R

CORRIDOR K
CORRIDOR A

K12.0.0
FMP 9.37

A 14.0.0
BMP 10.6
EMP 12.66

A 15.0.0
BMP 12.66
EMP 14.72

K11.1.0
BMP 8.51
EMP 9.37

A 13.2.0
BMP 9.92
EMP 10.6

A 13.1.0
BMP 9.63
EMP 9.92

A 13.0.0
BMP 6.29
EMP 9.63

A 12.2.0
BMP 2.54
EMP 6.29

SYLVA
WEBSTER
FOREST HILLS
Webster
JACKSON COUNTY
SWAIN COUNTY
MACON COUNTY
JACKSON

74
SR#1390
SR#1311
SR#1306
SR#1441
US 441 Alt

Williams Branch
Nations Creek
Joe Branch
Camp Branch
Cannady Creek
Chestnut Cove Creek
Upper Long Creek
Greens Creek
Sugar Fork
Rhoda Branch
Brook Branch
Fox Creek Estates
Tarkam Creek
Long Branch
Fillee Creek
Wilson Creek
Bryson Branch
Caney Fork
Locust Creek
Walnut Creek
Moses Creek
Webster Creek
Cope Creek
Hurricane Creek
Hyatt Creek
Blazed Creek
Huckleberry Creek
Bears Den Creek
Shepherd Creek
Tippett Creek
Swannanoa Creek
West Fork Scotts Creek

Levi Mathis Rd
Diamond Ridge Rd
Barkers Creek Rd
Redwing Rd
Pine Mtn Rd
Hicks Creek Rd
Hazelwood Rd
1st Ave
Main St
Jess Farm Rd
Lilac Dr
River Rd
Cagle Rd
Webster Rd
Sutton Branch Rd
Greens Creek Rd
Calvary Church Rd
Tuckerleaf Dr
East Fork Rd
Cabe Rd
Gay Rd
Church St
Sugarfork Rd

N

North Carolina
Appalachian Corridor A
Sheet 4 of 6
Aug 1, 2007

0 1 2 Miles

APD 12-2(24) C
APD 12-2(19) R-C
APD 12-2(11) E-R
APD 12-2(22) R-C
APD 12-2(21) R
APD 12-2(10) E
APD 12-2(17) R-C
APD 12-2(16) E-R
APD 12-2(9) E-C
APD 12-2(14) E-C

N

A 18.0.0
BMP 0.63
EMP 9.57

A 17.5.0
BMP 0
EMP 0.63

A 17.1.0
BMP 22.69
EMP 23.32

A 17.0.0
BMP 15.86
EMP 22.69

A 16.0.0
BMP 14.72
EMP 15.86

A 15.0.0
BMP 12.66
EMP 14.72

WAYNESVILLE
SYLVA
Addie
HAYWOOD COUNTY
JACKSON COUNTY

North Carolina
Appalachian Corridor A
Sheet 5 of 6
Aug 1, 2007

0 1 2 Miles

APD 12-2(14) E-C

APD 12-2(9) E-C

APD 12-2(15) R-C

APD 12-2(13) R

A 19.0.0
BMP 12.38
EMP 14.93

A 20.0.0
BMP 12.26
EMP 13.26

A 18.5.0
BMP 12.01
EMP 12.38

A 18.0.0
BMP 0.63
EMP 9.57

HAYWOOD

MAGGIE VALLEY

WAYNESVILLE

CLYDE

CANTON

West Canton

Lake Junaluska

Waynesville

Clyde

Canton

276

209

74

215

40

110

19

23

I-40

N

North Carolina
Appalachian Corridor A

Sheet 6 of 6
Aug 1, 2007

0 1 2 Miles

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: B

Section ID	**B01.0.0**	**B01.1.0**	**B02.0.0**	**B03.0.0**	**B04.0.0**	**B05.0.0**
LRS Milepoint: Beginning/Ending	**0.000/0.400**	**0.400/0.940**	**0.940/3.030**	**3.030/3.540**	**3.540/3.790**	**12.290/13.140**
Status	**NP**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.4	0.5	2.1	0.5	0.2	0.8
3. Class/Urban Code	U/0170	U/170	U/170	U/170	U/170	U/170
4. Location:						
---- *a. FIPS State/County/Congressional*	37/021/11	37/021/11	37/021/11	37/021/11	37/021/11	37/021/11
---- *b. HPMS Route/Subroute*	0000010240/00	0000010240/00	0000010240/00	0000010240/00	0000010240/00	0000020019/00
---- *c. HPMS Signed Route/Strip Map #*	0000010240/B1	0000010240/B1	0000010240/B1	0000010240/B1	0000010240/B1	0000020019/B1
5. Estimate Section/NHS Designation	2/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	50	50	50	50
7. Traffic:						
---- *a. ADT-Base Year (2005)*	58,200	58,200	64,400	57,900	102,000	102,000
---- *b. ADT-Year 2015*	74,600	74,600	80,600	71,400	119,000	119,000
---- *c. Design Year*	1,975	1,986	1,986	1,987	1,986	1,988
---- *d. ADT-Design Year*	30,700	30,800	39,500	73,000	71,800	76,100
---- *e. DHV-Design Year*	3,070	3,080	3,950	7,300	7,180	7,610
---- *f. % Truck Design Year(DHV)*	5	5	5	5	5	5
---- *g. % Truck Design Year(ADT)*	10	10	10	10	10	10
---- *h. Directional Distribution Factor*	61	61	61	62	62	62
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	8	8	4
10. Typical X-Section of Reference/Access Control	A6/Full	A6/Full	A6/Full	A6/Full	A6/Full	A6/Full
11. Right-of-Way Width(ft), prevailing	300	300	300	300	250	300
12. Median Width(ft), prevailing	16	16	16	16	40	8
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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: B

Section ID	**B06.0.0**	**B07.0.0**	**B07.1.0**	**B08.0.0**	**B09.0.0**	**B09.5.0**
LRS Milepoint: Beginning/Ending	**13.140/16.220**	**16.220/17.650**	**17.650/22.200**	**22.200/24.930**	**24.930/27.930**	**0.000/1.020**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	3.1	1.5	4.5	2.7	2.4	1
3. Class/Urban Code	U/170	U/170	U/170	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/021/11	37/021/11	37/021/11	37/021/11	37/021/11	37/115/11
---- *b. HPMS Route/Subroute*	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00
---- *c. HPMS Signed Route/Strip Map #*	0000020019/B1	0000020019/B1	0000020019/B1	0000020019/B2	0000020019/B2	0000020019/B2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	70	70	70	70	70	70
7. Traffic:						
---- *a. ADT-Base Year (2005)*	56,500	51,000	50,900	34,500	21,400	21,100
---- *b. ADT-Year 2015*	70,900	65,000	64,800	45,900	27,700	27,100
---- *c. Design Year*	1,989	1,985	1,985	1,992	1,992	1,992
---- *d. ADT-Design Year*	28,500	23,900	17,800	16,600	13,000	13,000
---- *e. DHV-Design Year*	2,850	2,390	1,780	1,660	1,300	1,300
---- *f. % Truck Design Year(DHV)*	5	5	5	5	5	5
---- *g. % Truck Design Year(ADT)*	10	10	10	10	10	10
---- *h. Directional Distribution Factor*	62	62	61	61	61	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	A1/Full	A1/Full	A1/Full	A1/Full	A1/Full	A1/Full
11. Right-of-Way Width(ft), prevailing	250	280	280	350	350	350
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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: B

Section ID	**B10.0.0**	**B10.1.0**	**B13.0.0**
LRS Milepoint: Beginning/Ending	**1.020/3.730**	**3.730/9.690**	**9.690/12.570**
Status	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20
2. Section Length(Miles)	2.7	6	3
3. Class/Urban Code	R/0	R/0	R/0
4. Location:			
---- *a. FIPS State/County/Congressional*	37/115/11	37/115/11	37/115/11
---- *b. HPMS Route/Subroute*	0000020019/00	0000020023/00	0000020023/00
---- *c. HPMS Signed Route/Strip Map #*	0000020019/B2	0000020023/B2	0000020023/B2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	60	60
7. Traffic:			
---- *a. ADT-Base Year (2005)*	18,300	8,300	7,700
---- *b. ADT-Year 2015*	23,000	10,600	10,600
---- *c. Design Year*	1,992	2,018	2,018
---- *d. ADT-Design Year*	13,000	30,083	22,200
---- *e. DHV-Design Year*	1,300	3,610	2,664
---- *f. % Truck Design Year(DHV)*	5	6	12
---- *g. % Truck Design Year(ADT)*	10	12	23
---- *h. Directional Distribution Factor*	60	60	61
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	A1/Full	A10/Full	A10/Full
11. Right-of-Way Width(ft), prevailing	300	1,000	1,000
12. Median Width(ft), prevailing	46	22	22
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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC

ADHS Corridor: B

Section ID	**Corridor**	**Rural**	**Urban**
LRS Milepoint	**Total**	**Subtotal**	**Subtotal**
1. Finance Code			
2. Section Length(Miles)	31.40	17.80	13.60
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 (2005)*			
---- *b. ADT-Year 2015*			
---- *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*	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

APD 34-1(4) C
APD 34-1(12) C
APD 34-1(8) C
APD 34-1(11) C
APD 13-1(21) C
APD 13-1 (13) R
APD 13-1 (14) R-C
APD 13-1 (17) C
APD 13-1(10) R
APD 13-1(12) R-C
APD 13-1(19) C
APD 13-1(9) C
Bridge APD 34-1(5) E-R
Bridge APD 34-1(7) R-C

N

B07.1.0
BMP 17.65
EMP 22.2

B07.0.0
BMP 16.22
EMP 17.65

B06.0.0
BMP 13.14
EMP 16.22

B05.0.0
BMP 12.29
EMP 13.14

B04.0.0
BMP 3.54
EMP 3.79

B03.0.0
BMP 3.03
EMP 3.54

B02.0.0
BMP 0.94
EMP 3.03

B01.1.0
BMP 0.4
EMP 0.94

B01.0.0
BMP 0
EMP 0.4

WOODFIN
BUNCOMBE
ASHEVILLE
BILTMORE FOREST
Erlanger

251
694
25
19
240
63
70
81
74
40

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

North Carolina
Appalachian Corridor B

Sheet 1 of 4
Aug 1, 2007

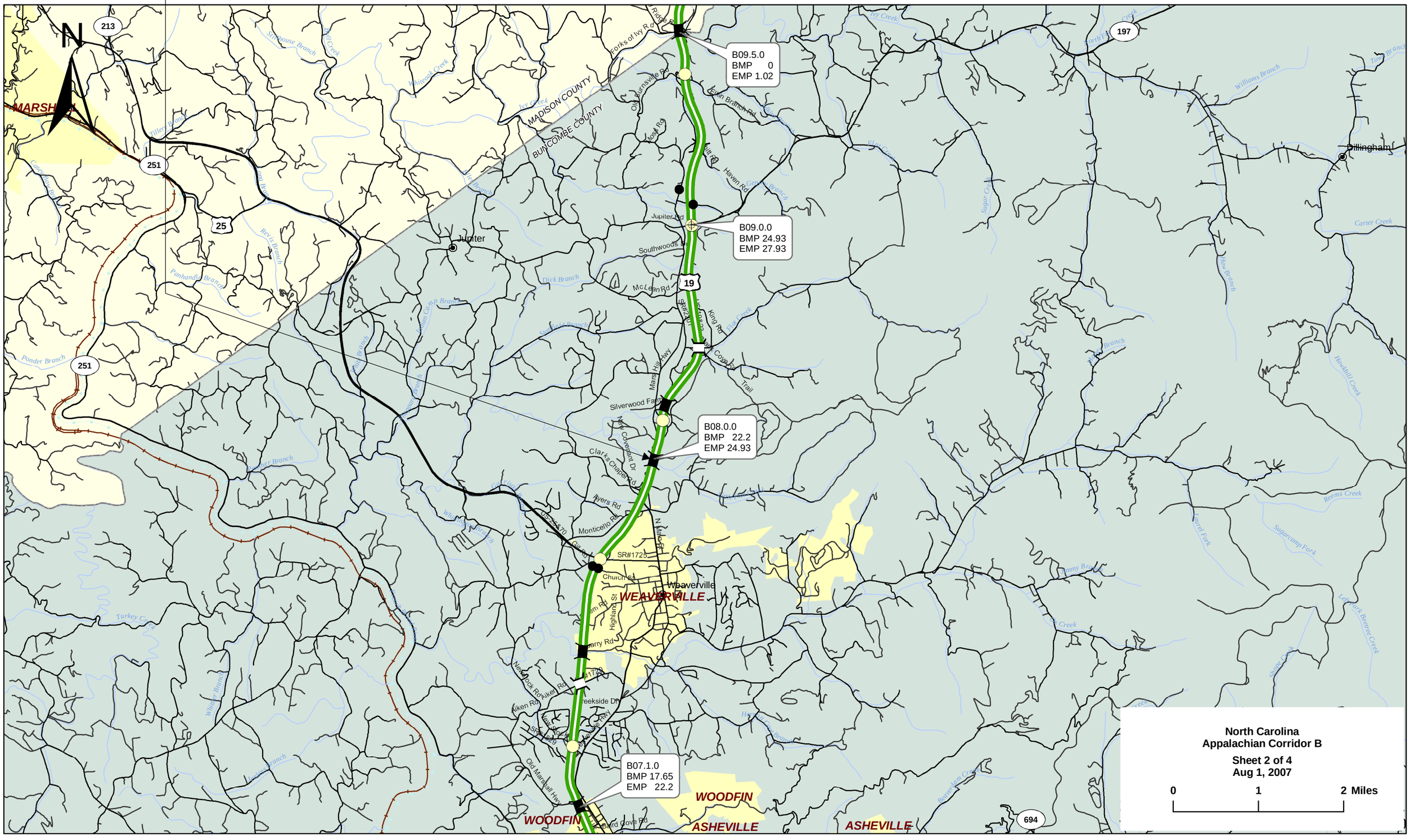
0 1 2 Miles

APD 13-1(15) E-R

APD 13-1(18) R

APD 13-1(9) C

APD 13-1(20) C



North Carolina
Appalachian Corridor B

Sheet 2 of 4
Aug 1, 2007

0 1 2 Miles

APD 13-1(15) E-R
APD 13-1(18) R
APD 13-1(20) C
APD 13-1(22) C
APD 13-1(30) C
APD 3-9(3) C
APD 2-3(8) C
APD 131-1(32) C
APD 13-1(31) R
APD 13-1(23) E

N

B13.0.0
BMP 9.69
EMP 12.57

B10.1.0
BMP 3.73
EMP 9.69

B10.0.0
BMP 1.02
EMP 3.73

B09.5.0
BMP 0
EMP 1.02

MARS HILL
MARSHALL
MADISON COUNTY
BUNCOMBE COUNTY

North Carolina
Appalachian Corridor B

Sheet 3 of 4
Aug 1, 2007

0 1 2 Miles

APD 2-3(8) C

APD 13-1(23) E

APD 13-1(32) C

APD 13-1(31) R

APD 13-1(28) R

APD 13-1(34) C

N

TENNESSEE

MADISON COUNTY

MADISON COUNTY

B14.0.0
EMP 12.57

B13.0.0
BMP 9.69
EMP 12.57

US-23

SR#1344

SR#1318

SR#1309

Bear Branch Rd

212

26

23

19

Whiteoak Flats Branch

Dry Creek

Big Creek

Hensley Branch

Hickorylog Branch

Rock Branch

Shelton Laurel Creek

Hicken Fork

Lisenbee Branch

Johnson Branch

Calvin Creek

Peter Cove Creek

Little Foster Creek

Foster Creek

Baker Creek

Barnes Branch

Spillcorn Creek

Wallin Branch

Palmer Camp Branch

Lewis Branch

Wolf Branch

Long Branch

West Fork Bull Creek

Bull Creek

Cargle Branch

Bradley Branch

Hampton Creek

Mill Laurel Branch

Puncheon Fork

Wilson Branch

Chandler Creek

Roaring Fork

Jim Creek

Biddle Branch

Rice Creek

Hensley Branch

Long Branch

Elk Shoal Creek

Adams Fork

Elk Walton Creek

Flat Creek

Wolf Branch

Ponder Creek

Jordan Branch

Shelton Ridge Branch

North Carolina
Appalachian Corridor B

Sheet 4 of 4
Aug 1, 2007

0 1 2 Miles

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**K01.0.0**	**K02.0.0**	**K02.5.0**	**K03.0.0**	**K03.1.0**	**K03.2.0**
LRS Milepoint: Beginning/Ending	**0.000/11.740**	**11.740/14.600**	**3.830/8.280**	**8.280/8.630**	**8.630/12.520**	**12.520/16.550**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	11.7	2.9	4.4	0.4	3.9	4
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11
---- *b. HPMS Route/Subroute*	0000020064/00	0000020064/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00
---- *c. HPMS Signed Route/Strip Map #*	0000020064/K1	0000020064/K2	0000020019/K2	0000020019/K2	0000020019/K2	0000020019/K2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	55	55	55	55	60	60
7. Traffic:						
---- *a. ADT-Base Year (2005)*	4,900	9,000	19,200	22,500	19,700	12,200
---- *b. ADT-Year 2015*	6,000	11,200	24,600	27,600	26,200	15,000
---- *c. Design Year*	1,988	1,988	1,988	1,988	1,996	1,996
---- *d. ADT-Design Year*	6,000	11,900	11,900	11,900	10,100	10,900
---- *e. DHV-Design Year*	720	1,071	1,071	1,071	909	981
---- *f. % Truck Design Year(DHV)*	6	4	4	4	4	4
---- *g. % Truck Design Year(ADT)*	12	9	9	9	9	9
---- *h. Directional Distribution Factor*	60	58	58	58	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	A3/None	A3/None	A3/None	A1/None	A1/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	36	36	38	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**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**K03.3.0**	**K03.4.0**	**K04.0.0**	**K04.1.0**	**K04.2.0**	**K04.9.0**
LRS Milepoint: Beginning/Ending	**16.550/17.070**	**17.070/18.350**	**18.350/20.730**	**20.730/23.550**	**23.550/23.910**	**0.000/3.100**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**	**Location Study**
1. Finance Code	20	20	20	20	20	23
2. Section Length(Miles)	0.5	1.3	2.4	2.8	0.3	3.1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11
---- *b. HPMS Route/Subroute*	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000074APD/00
---- *c. HPMS Signed Route/Strip Map #*	0000020019/K2	0000020019/K2	0000020019/K2	0000020019/K3	0000020019/K3	0000074APD/K3
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 (2005)*	8,000	7,800	8,800	8,700	7,700	3,000
---- *b. ADT-Year 2015*	8,800	8,600	9,700	9,600	9,600	6,200
---- *c. Design Year*	1,996	1,998	1,998	1,995	1,995	2,035
---- *d. ADT-Design Year*	10,900	9,700	10,100	9,600	9,600	12,600
---- *e. DHV-Design Year*	872	776	808	768	768	1,260
---- *f. % Truck Design Year(DHV)*	4	4	4	4	4	10
---- *g. % Truck Design Year(ADT)*	8	8	8	8	8	10
---- *h. Directional Distribution Factor*	60	60	60	60	60	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Partial	A1/Partial	A1/Partial	A1/Partial	A1/Partial	A10/Full
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	40	40	40	40	40	14
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	3,328
15. Right-of-Way:						
---- *a. Acquisition*	0	0	0	0	0	8,266
---- *b. Relocation*	0	0	0	0	0	846
16. Utility Adjustments	0	0	0	0	0	575
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	17,277
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	5,113
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	572
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	1,156
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**	**24,118**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**	**2,412**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**	**26,530**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**	**41,522**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**K05.2.0**	**K05.3.0**	**K05.5.0**	**K06.0.0**	**K06.5.0**	**K07.0.0**
LRS Milepoint: Beginning/Ending	**3.100/3.400**	**0.000/0.700**	**0.700/4.900**	**4.900/7.700**	**7.700/9.700**	**9.700/10.500**
Status	**Location Study**	**Location Study**	**Location Study**	**Design/RoW**	**Design/RoW**	**Design/RoW**
1. Finance Code	23	23	23	23	23	23
2. Section Length(Miles)	0.3	0.7	4.2	2.8	2	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*	37/039/11	37/075/11	37/075/11	37/075/11	37/075/11	37/075/11
---- *b. HPMS Route/Subroute*	0000074APD/00	0000074APD/00	0000074APD/00	0000074APD/00	0000074APD/00	0000074APD/00
---- *c. HPMS Signed Route/Strip Map #*	0000074APD/K3	0000074APD/K3	0000074APD/K3	0000074APD/K3	0000074APD/K3	0000074APD/K3
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 (2005)*	3,400	3,400	3,200	6,400	5,400	3,600
---- *b. ADT-Year 2015*	6,300	6,300	6,100	10,000	8,800	7,000
---- *c. Design Year*	2,035	2,035	2,035	2,035	2,035	2,035
---- *d. ADT-Design Year*	12,000	12,000	11,800	17,200	15,700	13,700
---- *e. DHV-Design Year*	1,200	1,200	1,180	1,720	1,570	1,370
---- *f. % Truck Design Year(DHV)*	10	10	10	10	10	10
---- *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	4	4	4	4	4	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	B7/Full	B7/Full	A1/Full	A1/None	A1/None	A1/None
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	36	36	30	30	30	30
13. Status of Development(Figure 4)	5a1	5a1	5a1	4a5	4a5	4a5
Estimated Cost($1,000) per Work Classification						
14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	3,210	8,492	5,902	3,766	2,361	2,596
15. Right-of-Way:						
---- *a. Acquisition*	98	124	4,723	9,747	8,351	3,599
---- *b. Relocation*	0	0	315	406	430	168
16. Utility Adjustments	0	0	325	750	825	150
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	31,119	17,143	12,438	15,628
18. Subbase, Base, Surfacing, Shoulders	0	0	6,919	3,826	2,900	1,992
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	1,935	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	44,298	117,194	0	4,234	394	0
23. Traffic Control	5	11	749	778	556	290
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	2,216	5,862	2,047	1,306	820	898
27. Subtotal(lines 17 thru 26)	**46,519**	**123,067**	**42,769**	**27,287**	**17,108**	**18,808**
28. Construction Engineering(10.00000000% of line 27)	**4,652**	**12,307**	**4,277**	**2,729**	**1,711**	**1,881**
29. Total Cost of Construction(lines 27 & 28)	**51,171**	**135,374**	**47,046**	**30,016**	**18,819**	**20,689**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**57,203**	**151,189**	**61,226**	**46,919**	**32,325**	**28,562**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**K07.8.0**	**K08.2.0**	**K08.6.0**	**K08.8.0**	**K08.9.0**	**K09.0.0**
LRS Milepoint: Beginning/Ending	**10.500/11.100**	**11.100/14.700**	**5.100/2.400**	**2.400/0.300**	**0.300/0.000**	**13.650/11.430**
Status	**Design/RoW**	**Design/RoW**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	23	23	20	20	20	20
2. Section Length(Miles)	0.6	3.6	2.7	2.1	0.3	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*	37/075/11	37/075/11	37/075/11	37/075/11	37/075/11	37/173/11
---- *b. HPMS Route/Subroute*	0000074APD/00	0000074APD/00	0000030028/00	0000030028/00	0000030028/00	0000030028/00
---- *c. HPMS Signed Route/Strip Map #*	0000074APD/K3	0000074APD/K4	0000030028/K4	0000030028/K4	0000030028/K4	0000030028/K4
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 (2005)*	3,200	3,400	3,400	3,400	3,400	3,400
---- *b. ADT-Year 2015*	6,600	7,000	7,000	7,000	7,000	7,000
---- *c. Design Year*	2,035	2,035	2,019	2,017	2,017	2,017
---- *d. ADT-Design Year*	13,300	14,300	12,101	9,330	9,330	9,330
---- *e. DHV-Design Year*	1,330	1,430	968	746	746	746
---- *f. % Truck Design Year(DHV)*	10	10	4	4	4	4
---- *g. % Truck Design Year(ADT)*	10	10	8	8	8	8
---- *h. Directional Distribution Factor*	55	55	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	4	4	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	B7/Full	A1/None	A1/None	A1/None	A2/None	A2/None
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	36	30	30	30	30	30
13. Status of Development(Figure 4)	4a5	4a5	1a	1a	1a	1a
Estimated Cost($1,000) per Work Classification						
14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	6,712	12,183	0	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	161	9,980	0	0	0	0
---- *b. Relocation*	0	503	0	0	0	0
16. Utility Adjustments	0	350	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	71,275	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	8,257	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	92,325	3,221	0	0	0	0
23. Traffic Control	15	1,319	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	4,619	4,213	0	0	0	0
27. Subtotal(lines 17 thru 26)	**96,959**	**88,285**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**9,696**	**8,828**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**106,655**	**97,114**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**119,204**	**126,136**	**0**	**0**	**0**	**0**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**K09.2.0**	**K09.3.0**	**K09.3.5**	**K09.4.0**	**K09.5.0**	**K10.0.0**
LRS Milepoint: Beginning/Ending	**11.430/10.820**	**10.820/10.310**	**11.580/11.860**	**11.860/13.630**	**13.630/16.900**	**16.900/22.460**
Status	**Completed**	**Stage Construction**	**Stage Construction**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	21	21	20	20	20
2. Section Length(Miles)	0.6	0.5	0.2	1.8	3.3	5.8
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- *a. FIPS State/County/Congressional*	37/173/11	37/173/11	37/173/11	37/173/11	37/173/11	37/173/11
---- *b. HPMS Route/Subroute*	0000030028/00	0000030028/00	0000020019/00	0000020019/00	0000020019/00	0000020074/00
---- *c. HPMS Signed Route/Strip Map #*	0000030028/K4	0000030028/K4	0000020019/K4	0000020019/K4	0000020019/K4	0000020074/K4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	55	60	60	60	60	60
7. Traffic:						
---- *a. ADT-Base Year (2005)*	3,400	3,400	3,600	8,000	9,200	11,600
---- *b. ADT-Year 2015*	7,000	7,200	7,300	10,000	11,700	14,900
---- *c. Design Year*	2,015	2,035	2,035	2,006	2,006	1,992
---- *d. ADT-Design Year*	8,611	14,700	14,700	9,492	9,492	9,870
---- *e. DHV-Design Year*	689	1,470	1,470	759	759	790
---- *f. % Truck Design Year(DHV)*	4	10	10	4	4	4
---- *g. % Truck Design Year(ADT)*	8	10	10	8	8	8
---- *h. Directional Distribution Factor*	60	55	55	62	62	62
8. Number of Lanes to be Constructed this Estimate	0	2	2	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A2/None	A11/None	A11/None	A9/None	A2/Partial	A1/Full
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	350
12. Median Width(ft), prevailing	30	12	12	12	36	40
13. Status of Development(Figure 4)	1a	3a3a	3a3a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

14. Preliminary Engineering:						
---- *a. Location*	0	0	0	0	0	0
---- *b. Design*	0	988	124	0	0	0
15. Right-of-Way:						
---- *a. Acquisition*	0	1,600	0	0	0	0
---- *b. Relocation*	0	0	0	0	0	0
16. Utility Adjustments	0	125	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	1,202	524	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	792	411	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	237	0	0	0	0
23. Traffic Control	0	79	18	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	4,505	0	0	0	0
26. All Other Items	0	342	48	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**7,157**	**1,001**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**716**	**100**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**7,873**	**1,101**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**11,115**	**1,286**	**0**	**0**	**0**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**K10.1.0**	**K10.1.5**	**K10.2.0**	**K11.0.0**	**K11.1.0**
LRS Milepoint: Beginning/Ending	**22.460/24.770**	**0.000/0.130**	**0.130/2.830**	**2.830/8.510**	**8.510/9.370**
Status	**Completed**	**Completed**	**Completed**	**Completed**	**Completed**
1. Finance Code	20	20	20	20	20
2. Section Length(Miles)	2.3	0.1	2.7	5.7	0.9
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0
4. Location:					
---- *a. FIPS State/County/Congressional*	37/173/11	37/099/11	37/099/11	37/099/11	37/099/11
---- *b. HPMS Route/Subroute*	0000020074/00	0000020074/00	0000020074/00	0000020074/00	0000020074/00
---- *c. HPMS Signed Route/Strip Map #*	0000020074/K5	0000020074/K5	0000020074/K5	0000020074/K5	0000020074/K5
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	55	50
7. Traffic:					
---- *a. ADT-Base Year (2005)*	12,400	13,500	13,500	21,800	23,100
---- *b. ADT-Year 2015*	15,900	17,800	17,800	29,100	30,300
---- *c. Design Year*	1,993	1,993	1,993	1,995	1,990
---- *d. ADT-Design Year*	6,980	6,980	11,200	11,900	10,400
---- *e. DHV-Design Year*	558	558	784	833	728
---- *f. % Truck Design Year(DHV)*	4	4	3	3	3
---- *g. % Truck Design Year(ADT)*	8	8	7	7	7
---- *h. Directional Distribution Factor*	62	62	62	66	66
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Full	A1/Full	A1/Full	A6/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	250	250	250	350	350
12. Median Width(ft), prevailing	40	40	40	16	36
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a

Estimated Cost($1,000) per Work Classification

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. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0
20. Highway Grade Seperations 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 Area, Overlooks*	0	0	0	0	0
26. All Other Items	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**0**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**0**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**0**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**0**	**0**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: K

Section ID	**Corridor**	**Rural**	**Urban**
LRS Milepoint	**Total**	**Subtotal**	**Subtotal**
1. Finance Code			
2. Section Length(Miles)	83.90	83.90	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 (2005)*			
---- *b. ADT-Year 2015*			
---- *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*	0	0	0
---- *b. Design*	49,662	49,662	0
15. Right-of-Way:			
---- *a. Acquisition*	46,649	46,649	0
---- *b. Relocation*	2,668	2,668	0
16. Utility Adjustments	3,100	3,100	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	166,606	166,606	0
18. Subbase, Base, Surfacing, Shoulders	30,210	30,210	0
19. Railroad Grade Seperations	0	0	0
20. Highway Grade Seperations without Ramps	1,935	1,935	0
21. Interchanges	0	0	0
22. Other Bridges, Tunnels, and Walls	261,903	261,903	0
23. Traffic Control	4,392	4,392	0
24. Environmental Mitigation	0	0	0
25. Roadside Improvements:			
---- *a. Landscape Planting*	0	0	0
---- *b. Rest Area, Overlooks*	4,505	4,505	0
26. All Other Items	23,527	23,527	0
27. Subtotal(lines 17 thru 26)	493,078	493,078	0
28. Construction Engineering(10.00000000% of line 27)	49,308	49,308	0
29. Total Cost of Construction(lines 27 & 28)	542,386	542,386	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	676,688	676,688	0

APD 12-1(1) E-R

APD 12-1(8) R-C

APD 12-1(9) R-C

APD 12-1(10) R-C

N

TENNESSEE

GEORGIA

To Cleveland, TN

K01.0.0
BMP 0.00
EMP 11.74

K02.0.0
BMP 11.74
EMP 14.6

294

60

Culberson

CHEROKEE COUNTY

CHEROKEE COUNTY

Thompson Branch

Rocky Fork Creek

Beaver Creek

Stacey Branch

Allen Branch

South Shoal Creek

Jax Creek

Walker Mill Creek

Bell Hill Rd

Horse Lick Creek

Wingate R

Dickey Rd

Dickey Branch

Nottely River

NC-60

Supply Point Rd

Tilson Rd

Piney Rd

Tuscarora Trl

Emory Shield Rd

Holiness Church

Persimmon Creek

Cloniger Rd

Shady Grove Rd

Ledbetter Rd

North Fork Rapier Mill Creek

South Fork Rapier Mill Creek

Owenby Creek

Hothouse Creek

Old Salem Rd

Pleasant Hill Rd

Wolf Mtn Rd

Old Fairfield Rd

Helton Rd

Simonds Rd

Weece Rd

Johnson Hill Rd

Kirby Ln

Golden Rd

Old State Road

SR#1110

Worm Potato Creek

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

North Carolina
Appalachian Corridor K

Sheet 1 of 6
Aug 1, 2007

0 1 2 Miles

APD 12-1(16) R

APD 12-1(15) R

APD 12-1(20) C

APD 12-1(19) C

APD 12-1(6) E

APD 12-1(1) E-R

APD 12-1(2) E

APD 12-1(9) R-C

APD 12-1(10) R-C

Hiwassee Village

K03.2.0
BMP 12.52
EMP 16.55

K03.1.0
BMP 8.63
EMP 12.52

K03.0.0
BMP 8.28
EMP 8.63

K02.0.0
BMP 11.74
EMP 14.6

K02.5.0
BMP 3.83
EMP 8.28

MURPHY

Brasstown

N

North Carolina
Appalachian Corridor K

Sheet 2 of 6
Aug 1, 2007

0 1 2 Miles

APD 12-1(20) C
APD 12-1(16) R
APD 12-1(15) R
APD 12-1(6) E
APD 12-1(18) C
APD 12-1(17) R
APD 12-1(21) C
APD 12-1(13) R
APD 12-1(7) E
APD 12-1(2) E
APD 12-1(22) E

N

K05.3.0
BMP 0
EMP 0.7

K05.5.0
BMP 0.7
EMP 4.9

K05.2.0
BMP 3.1
EMP 3.4

K04.9.0
BMP 0
EMP 3.1

K04.2.0
BMP 23.55
EMP 23.91

K04.1.0
BMP 20.73
EMP 23.55

K04.0.0
BMP 18.35
EMP 20.73

K03.4.0
BMP 17.07
EMP 18.35

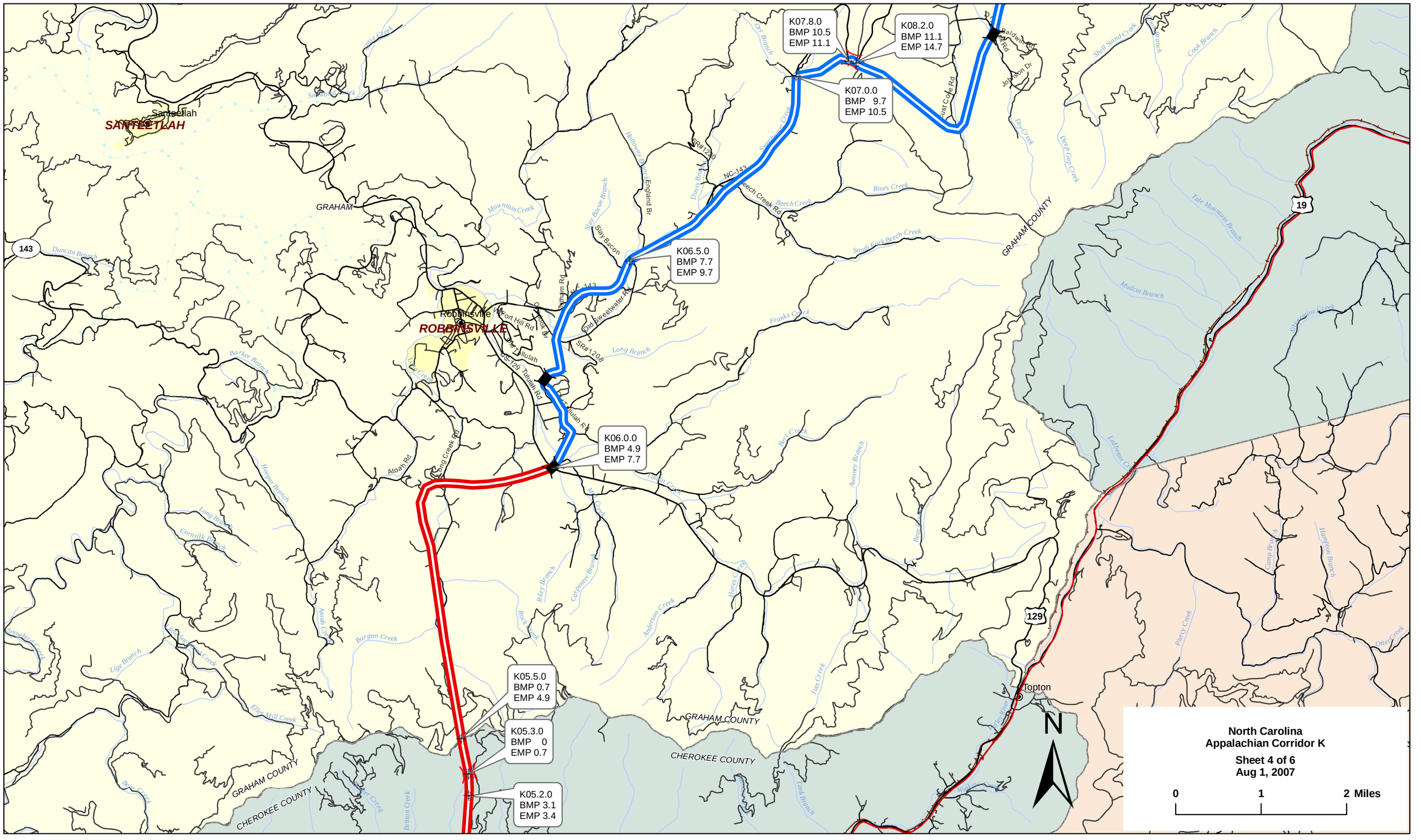
K03.3.0
BMP 16.55
EMP 17.07

GRAHAM COUNTY
CHEROKEE COUNTY
ANDREWS
Snowbird Creek
Sassafras Creek
Tuckasegee River
Bear Creek
Beaver Creek
Jars Creek
Tank Branch
Welton Creek
Ash Cove Creek
Doctor Branch
Pile Creek
Mill Branch
Valley River
Kennedy Creek
Dan Holland Creek
Good Branch
Mike Branch
Underwood Branch
Throat Creek
Truett Branch
Allman Branch
Welch Mill Creek
Alarka Creek
Bald Creek
Will Creek
Woods Branch
Owl Creek
Hyatt Creek
Colvard Creek
Gabby Branch
Morgan Creek
Dick Branch
Hoyes Mill Creek
Little Owl Creek
Beech Tree Creek
Brown Creek
Whitaker Branch
Jungluska Creek
Bolden Branch
Right Fork Bear Branch
McClellan Creek
Aaron Creek
Graybeard Creek
Allred Creek
Phillips Creek
Vengeance Creek
Peachtree Creek
Laurel Creek
Rockhouse Creek
Long Branch
Fires Creek
Tatham Cabin Branch
Web Rd
Henry Field Rd
Fairview Rd
Cherry Lane
Payne Rd
Griggs Rd
Palmer Ln
Bluff Rd
Morgan Creek Rd
Amon Rd
Maltby Rd
Ranger Rd
Peach Tree Rd
Kennedy Rd
Britton Creek Rd
Pile Creek Rd
SR 1383
SR 1616
SR 1326
SR 1323
141

North Carolina
Appalachian Corridor K

Sheet 3 of 6
Aug 1, 2007

0 1 2 Miles


K07.8.0
BMP 10.5
EMP 11.1
K08.2.0
BMP 11.1
EMP 14.7
K07.0.0
BMP 9.7
EMP 10.5
K06.5.0
BMP 7.7
EMP 9.7
K06.0.0
BMP 4.9
EMP 7.7
K05.5.0
BMP 0.7
EMP 4.9
K05.3.0
BMP 0
EMP 0.7
K05.2.0
BMP 3.1
EMP 3.4
SANTEETLAH
Santeetlah
GRAHAM
ROBBINSVILLE
Robbinsville
Topton
GRAHAM COUNTY
CHEROKEE COUNTY
NC-143
SR#1208
SR#1210
US-129 Tuliula Rd
Old Sweetwater Rd
Beech Creek Rd
Long Branch
Rines Creek
Franks Creek
Mudcut Branch
Tate Mountain Branch
Burgan Creek
Anderson Creek
Jans Creek
Aunney Branch
Piercy Creek
Otter Creek
Cook Branch
Shell Stand Creek
Dry Creek
Deep Gap Creek
Johnson Dr
Baldwin Rd
Dust Cole Rd
Atoah Rd
Long Creek Rd
Tuliula Rd
Tuliula Creek
Slay Bacon
Slay Bacon Branch
Hollowtop Branch
England Br
Davis Branch
Mountain Creek
Duncan Branch
Barker Branch
Hooper Branch
Cornsilk Branch
Lige Branch
Ellijay Creek
Snowbird Creek
Britton Creek
Riley Branch
Carpenter Branch
Rock Creek
Bert Creek
Hayes Creek
Tank Branch
Wolf Creek
Leiberer Creek
Camp Branch
Hannyton Branch
Silvermine Creek
Tulula Creek
Fort Hill Rd
Overlook Dr
Dry Creek
Snowbird Creek
Slay Bacon
Hollowtop Branch
Davis Branch
Swetwater Creek
Beech Creek
Deep Gap Creek
Dry Creek
Shell Stand Creek
Cook Branch
Tate Mountain Branch
Mudcut Branch
Franks Creek
Rines Creek
South Fork Beech Creek
Aunney Branch
Bert Creek
Tuliula Creek
Anderson Creek
Jans Creek
Piercy Creek
Otter Creek
Hannyton Branch
Camp Branch
Leiberer Creek
Silvermine Creek
Wolf Creek
Tank Branch
Britton Creek
Hayes Creek
Carpenter Branch
Riley Branch
Rock Creek
Burgan Creek
Lige Branch
Ellijay Creek
Snowbird Creek
Barker Branch
Hooper Branch
Cornsilk Branch
Long Branch
Duncan Branch
143
19
129
N
North Carolina
Appalachian Corridor K
Sheet 4 of 6
Aug 1, 2007
0
1
2 Miles

APD 12-1(22) E

APD 12-1(14) C

APD 12-1(11) R

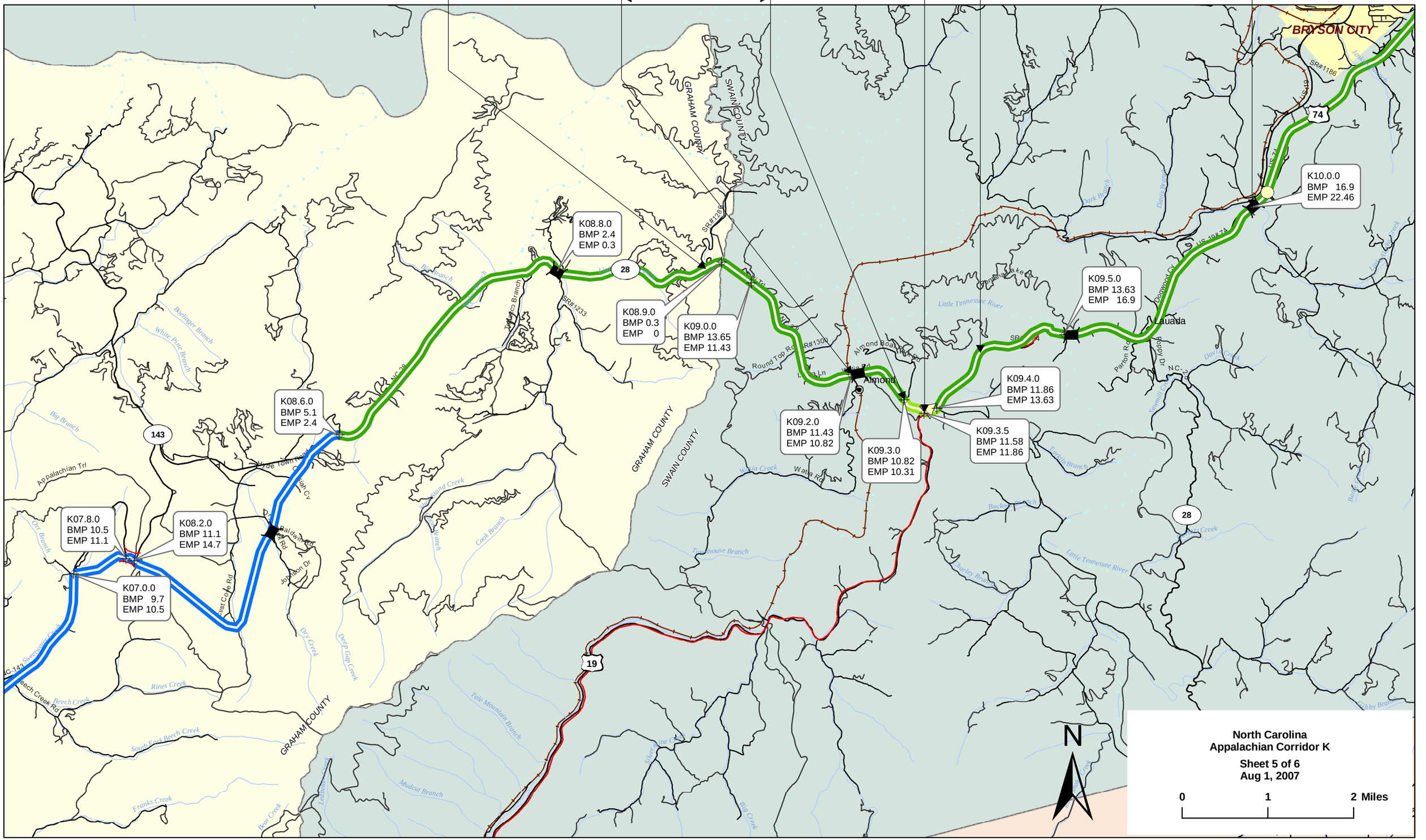
APD 12-1(4) E

APD 12-1(37) R-C

APD 12-1(38) R

APD 12-1(36) C

APD 12-1(S) E-R



APD 12-1(S) E-R

APD 12-1(14) C

APD 12-1(4) E

APD 12-1(11) R

APD 12-1(12) C

1 2

APD 12-2(20) C

APD 12-2(20) C

APD 12-2(18) R

APD 12-2(23) C

APD 12-2(12) E

APD 12-2(19) R-C

N

BRYSON CITY

Fontana Lake

SYLVA

Sylva

Webster

Dillsboro

Cullowhee

Whittier

Cherokee

Qualla Boundary

Alarka

Lauada

Hammer Branch

Juney Whank Branch

Dills Creek

Potts Branch

Bonds Creek

Bryson Branch

Tuckaseigee River

Scotts Creek

Deitz Branch

Dogwood Cv

Sawmill Creek

Little Alarka Creek

Silon Creek

Kirkland Creek

Shepherd Creek

Williams Branch

Hickorynut Branch

Long Creek

Upper Long Creek

Chestnut Cove Creek

Camp Branch

Bowers Creek

Barkers Creek

Nations Creek

Toe Branch

Greens Creek

Brook Br

Ocanaluftee River

Shoal Creek

Caney Creek

Fisher Creek

Allen Branch

Kitchen Branch

Dills Creek

Laurel Creek

Hill Creek

Scotts Creek

Tuckaseigee River

SWAIN COUNTY

JACKSON COUNTY

CORRIDOR K

CORRIDOR A

SR#1195

SR#1191

SR#1193

SR#1488

SR#1186

SR#1390

SR#1398

Owle Dr

English Rd

Hyatt Creek Rd

Walker Woody Rd

Old River Rd

Franklin St

Kitchen Rd

Bradley Branch Rd

Smokey Cove Rd

Levi Mathis Rd

Thomas Valley Rd

Hornbuckle Rd

Redwing Valley Rd

Diamond Ridge

Bakers Gap Rd

Brooks Creek Rd

Fisher Creek Rd

Mill St

Main St

Jct Ave

Hazelwood Rd

Jct Farm Rd

Lilac Dr

River Rd

Eagle St

Rogue Dr

US 19

US 74

US 19/74

NC 28

441

74

28

K10.0.0
BMP 16.9
EMP 22.46

K10.1.0
BMP 22.46
EMP 24.77

K10.1.5
BMP 0
EMP 0.13

K10.2.0
BMP 0.13
EMP 2.83

K11.0.0
BMP 2.83
EMP 8.51

K11.1.0
BMP 8.51
EMP 9.37

K12.0.0
FMP 9.37

A 13.2.0
BMP 9.92
EMP 10.6

A 14.0.0
BMP 10.6
EMP 12.66

A 13.1.0
BMP 9.63
EMP 9.92

North Carolina
Appalachian Corridor K

Sheet 6 of 6
Aug 1, 2007

0 1 2 Miles

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: W

Section ID	**W01.0.0**	**W02.0.0**	**W02.5.0**	**W03.0.0**	**W04.0.0**
LRS Milepoint: Beginning/Ending	**0.000/1.210**	**1.210/4.930**	**4.670/5.590**	**5.590/8.420**	**8.420/8.690**
Status	**NP**	**Completed**	**Completed**	**Design/RoW**	**NP**
1. Finance Code	20	20	20	22	20
2. Section Length(Miles)	1.2	3.7	1	2.8	0.3
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0
4. Location:					
---- *a. FIPS State/County/Congressional*	37/089/11	37/089/11	37/089/11	37/089/11	37/089/11
---- *b. HPMS Route/Subroute*	0000020025/00	0000020025/00	0000020025/00	0000020025/00	0000020025/00
---- *c. HPMS Signed Route/Strip Map #*	0000020025/W1	0000020025/W1	0000020025/W1	0000020025/W1	0000020025/W1
5. Estimate Section/NHS Designation	2/NHS	1/NHS	1/NHS	1/NHS	2/NHS
6. Design Speed(mph)	70	70	70	70	70
7. Traffic:					
---- *a. ADT-Base Year (2005)*	12,000	14,100	13,100	13,100	13,100
---- *b. ADT-Year 2015*	16,400	17,100	17,100	17,100	17,100
---- *c. Design Year*	1,992	1,996	1,996	2,035	2,002
---- *d. ADT-Design Year*	9,200	9,600	9,600	25,100	13,126
---- *e. DHV-Design Year*	1,104	864	864	2,800	1,181
---- *f. % Truck Design Year(DHV)*	6	5	5	10	5
---- *g. % Truck Design Year(ADT)*	12	9	9	17	9
---- *h. Directional Distribution Factor*	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	2	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Full	A1/Full	A1/Full	A4/Full	A4/Full
11. Right-of-Way Width(ft), prevailing	450	450	450	250	300
12. Median Width(ft), prevailing	68	68	68	36	36
13. Status of Development(Figure 4)	np	1a	1a	4a4	np

Estimated Cost($1,000) per Work Classification

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	3,540	0
---- *b. Relocation*	0	0	0	37	0
16. Utility Adjustments	0	0	0	666	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	4,579	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	6,491	0
19. Railroad Grade Seperations	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	863	0
21. Interchanges	0	0	0	2,233	0
22. Other Bridges, Tunnels, and Walls	0	0	0	126	0
23. Traffic Control	0	0	0	856	0
24. Environmental Mitigation	0	0	0	1,235	0
25. Roadside Improvements:					
---- *a. Landscape Planting*	0	0	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0	0	0
26. All Other Items	0	0	0	826	0
27. Subtotal(lines 17 thru 26)	**0**	**0**	**0**	**17,209**	**0**
28. Construction Engineering(10.00000000% of line 27)	**0**	**0**	**0**	**1,721**	**0**
29. Total Cost of Construction(lines 27 & 28)	**0**	**0**	**0**	**18,930**	**0**
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	**0**	**0**	**0**	**24,332**	**0**

2007 Appalachian Developement Highway System Cost Estimate

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

State: NC ADHS Corridor: W

Section ID	**Corridor**	**Rural**	**Urban**
LRS Milepoint	**Total**	**Subtotal**	**Subtotal**
1. Finance Code			
2. Section Length(Miles)	9.00	9.00	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 (2005)*			
---- *b. ADT-Year 2015*			
---- *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*	0	0	0
---- *b. Design*	0	0	0
15. Right-of-Way:			
---- *a. Acquisition*	3,540	3,540	0
---- *b. Relocation*	37	37	0
16. Utility Adjustments	666	666	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	4,579	4,579	0
18. Subbase, Base, Surfacing, Shoulders	6,491	6,491	0
19. Railroad Grade Seperations	0	0	0
20. Highway Grade Seperations without Ramps	863	863	0
21. Interchanges	2,233	2,233	0
22. Other Bridges, Tunnels, and Walls	126	126	0
23. Traffic Control	856	856	0
24. Environmental Mitigation	1,235	1,235	0
25. Roadside Improvements:			
---- *a. Landscape Planting*	0	0	0
---- *b. Rest Area, Overlooks*	0	0	0
26. All Other Items	826	826	0
27. Subtotal(lines 17 thru 26)	17,209	17,209	0
28. Construction Engineering(10.00000000% of line 27)	1,721	1,721	0
29. Total Cost of Construction(lines 27 & 28)	18,930	18,930	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	24,332	24,332	0

APD 17-1(10) C

APD 17-1(11) C

LAUREL PARK

HENDERSONVILLE

Valley Hill

FLAT ROCK

W04.0.0
BMP 8.42
EMP 8.69

W03.0.0
BMP 5.59
EMP 8.42

W02.5.0
BMP 4.67
EMP 5.59

W02.0.0
BMP 1.21
EMP 4.93

W01.0.0
BMP 0
EMP 1.21

To Greenville, SC

HENDERSON COUNTY

POLK COUNTY

SALUDA

SOUTH CAROLINA

I-26

26

176

225

Forest Rd

Helmet Rd

Kendrick Cir

Skyuka Rd

Hall Grove Rd

Slater Rd

Rogers Rd

Corvis Ln

Gordon Dr

Lamplighter Ln

U.S. 25 & 276

Glory View Dr

Lake Summit Dr

Mount Olivet Rd

Freeman Creek Rd

SR#1 117

Panish Ln

Green River Rd

Jerry C Andrews Rd

Lemonaid Ln

Anders Rd

Big Gap Creek Rd

Rd

Trail

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

N

North Carolina
Appalachian Corridor W

Sheet 1 of 1
Aug 1, 2007

0 1 2 Miles

2007 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of North 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	A		B		K	
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban
Length in miles	7.3	0.0	0.0	0.0	18.8	0.0
Total Mileage (Rural + Urban)	7.3		0.0		18.8	
Work Classification	Estimated Costs ($1,000)					
14. Preliminary Engineering: a. Location	0	0	0	0	0	0
b. Design	2,961	0	0	0	49,662	0
15. Right-of-Way: a. Acquisition	25,189	0	0	0	46,649	0
b. Relocation	720	0	0	0	2,668	0
16. Utility Adjustments	1,752	0	0	0	3,100	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	8,192	0	0	0	166,606	0
18. Subbase, Base, Surfacing, Shoulders	7,417	0	0	0	30,210	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separation without Ramps	0	0	0	0	1,935	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	3,550	0	0	0	261,903	0
23. Traffic Control	716	0	0	0	4,392	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements: a. Landscape Planting	0	0	0	0	0	0
b. Rest Areas, Overlooks	0	0	0	0	4,505	0
26. All Other Items	1,014	0	0	0	23,527	0
27. Subtotal (Lines 17 through 26)	20,889	0	0	0	493,078	0
28. Construction E & C (10.00 % of line 27 and 28)	2,089	0	0	0	49,308	0
29. Total Cost of Construction (lines 27 and 28)	22,978	0	0	0	542,386	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)	56,280	0	0	0	676,688	0
31. Total Cost (Rural + Urban)	56,280		0		676,688	

2007 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of North 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	2.8	0.0			28.9	0.0	
Total Mileage (Rural + Urban)	2.8						28.9
Work Classification	Estimated Costs ($1,000)						
14. Preliminary Engineering: a. Location	0	0			0	0	0
b. Design	0	0			52,623	0	52,623
15. Right-of-Way: a. Acquisition	3,540	0			75,378	0	75,378
b. Relocation	37	0			3,425	0	3,425
16. Utility Adjustments	666	0			5,518	0	5,518
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	4,579	0			179,377	0	179,377
18. Subbase, Base, Surfacing, Shoulders	6,491	0			44,118	0	44,118
19. Railroad Grade Separations	0	0			0	0	0
20. Highway Grade Separation without Ramps	863	0			2,798	0	2,798
21. Interchanges	2,233	0			2,233	0	2,233
22. Other Bridges, Tunnels, and Walls	126	0			265,579	0	265,579
23. Traffic Control	856	0			5,964	0	5,964
24. Environmental Mitigation	1,235	0			1,235	0	1,235
25. Roadside Improvements: a. Landscape Planting	0	0			0	0	0
b. Rest Areas, Overlooks	0	0			4,505	0	4,505
26. All Other Items	826	0			25,367	0	25,367
27. Subtotal (Lines 17 through 26)	17,209	0			531,176	0	531,176
28. Construction E & C (10.00 % of line 27 and 28)	1,721	0			53,118	0	53,118
29. Total Cost of Construction (lines 27 and 28)	18,930	0			584,294	0	584,294
30. Total Estimated Cost (lines 14, 15, 16, & 29)	24,332	0			757,299	0	
31. Total Cost (Rural + Urban)	24,332						757,299

TABLE D

Prefinanced (AC-APD) Projects, Bond Issue Projects, and Advanced Right-of-Way Projects

(Projects Completed or in Authorized Status as of September 30, 2006

State/Commonwealth of North Carolina

TABLE E
Federal Funds Earmarked for the ADHS and Not Obligated by 9-30-06

State/Commonwealth of North Carolina

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