



# MARYLAND

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

May 2007  
(Data as of September 30, 2006)

Prepared by the Maryland Department of Transportation

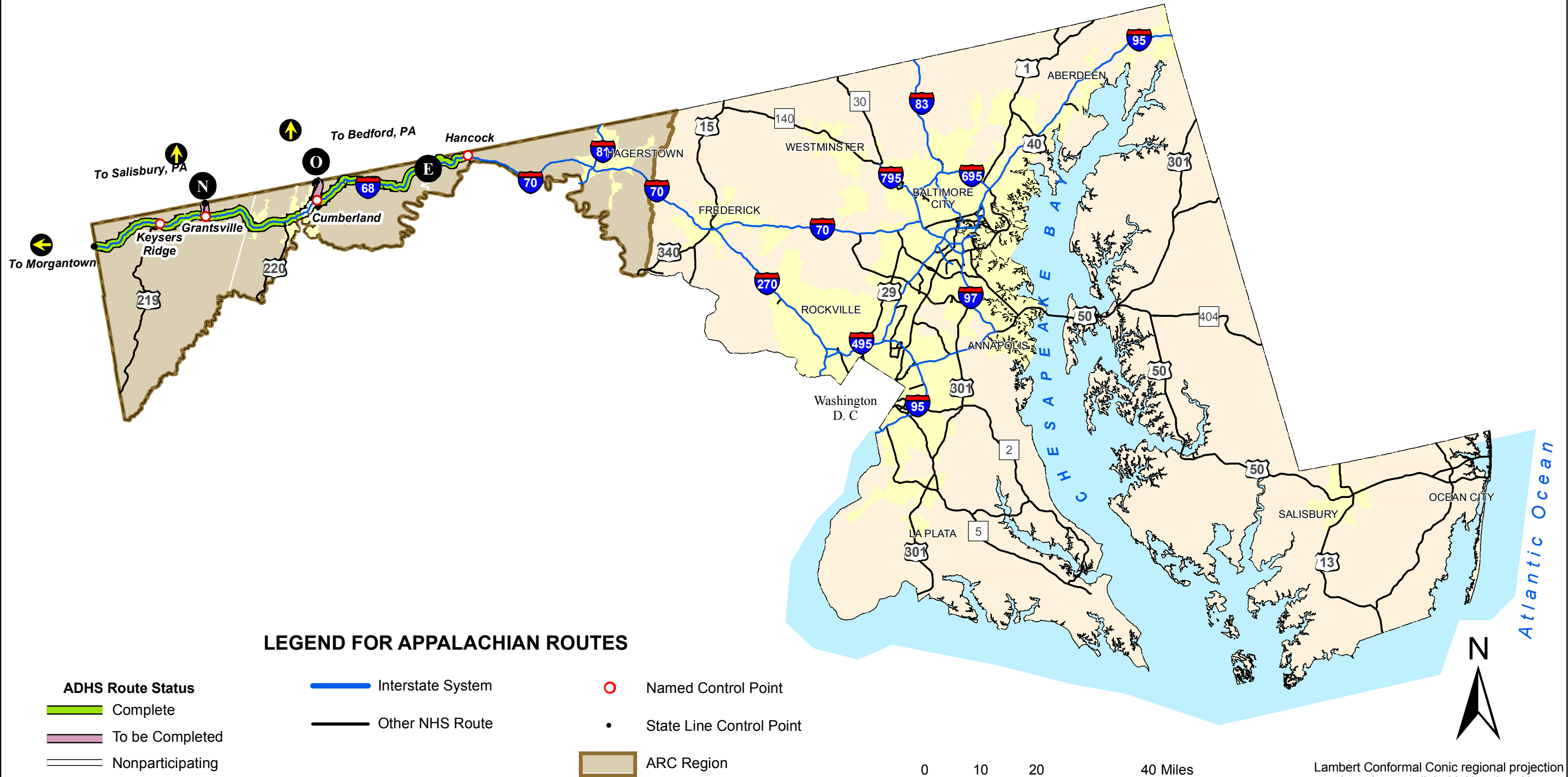
In Cooperation with the

U.S. Department of Transportation  
Federal Highway Administration  
Appalachian Regional Commission  
and the

Nick J. Rahall, II Appalachian Transportation Institute

# MARYLAND PORTION OF APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM

## STATE OF MARYLAND



This 2007 Estimate of the Cost of Completing the Appalachian Development Highway System  
in the State of Maryland as of September 30, 2006 was prepared in accordance with the  
2007 ADHS Cost Estimate Guidelines and Software Instruction Manual by the  
Maryland State Highway Administration 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.



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Neil J. Pedersen, Administrator  
Maryland State Highway  
Administration



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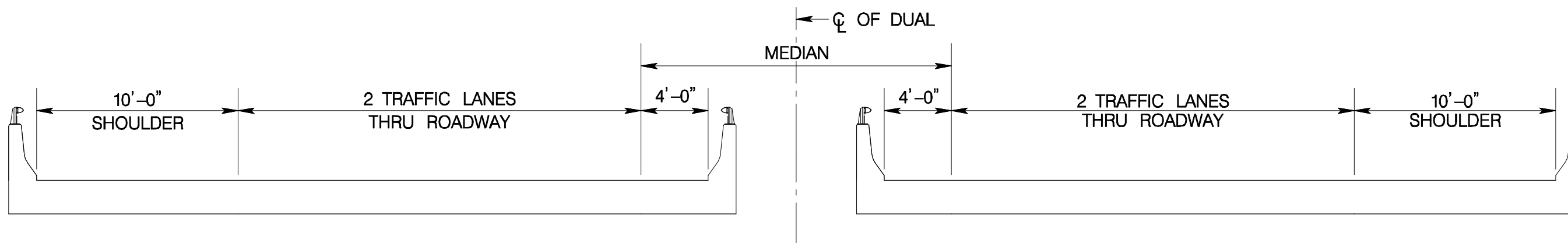
Nelson Castellanos, Maryland  
Division  
Federal Highway Administration

**TABLE A**  
Appalachian Corridor Segment Descriptions

State/Commonwealth of Maryland

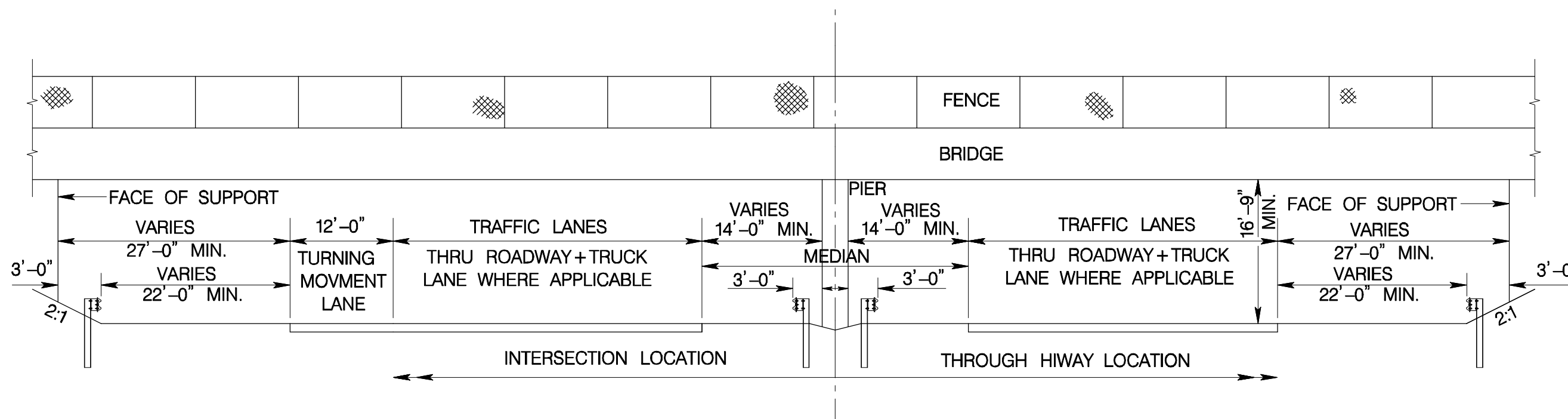
Corridor Letter	Principal Existing Route Numbers	Segment Descriptions	Eligible (miles)	Ineligible (miles)
E	I-68	Maryland-West Virginia State Line to Keysers Ridge	13.7	
E	I-68	Keysers Ridge to Corridor "N" East of Grantsville	8.7	
E	I-68	Corridor "N" East of Grantsville to Lee Street in Cumberland	20.7	
E	I-68	Lee Street in Cumberland to West of Christie Road		2.6
E	I-68	West of Christie Road to Corridor "O"	1.3	
E	I-68	Corridor "O" to Reel Road	32.6	
E	I-68	Reel Road to Hancock		1.0
N	U.S. 219	Corridor "E" East of Grantsville to Maryland-Pennsylvania State Line	2.5	
O	U.S. 220	Corridor "E" East of Wolf Mill to Maryland-Pennsylvania State Line	3.7	
		Total	83.2	3.6

# TYPICAL CROSS SECTION OF IMPROVEMENT

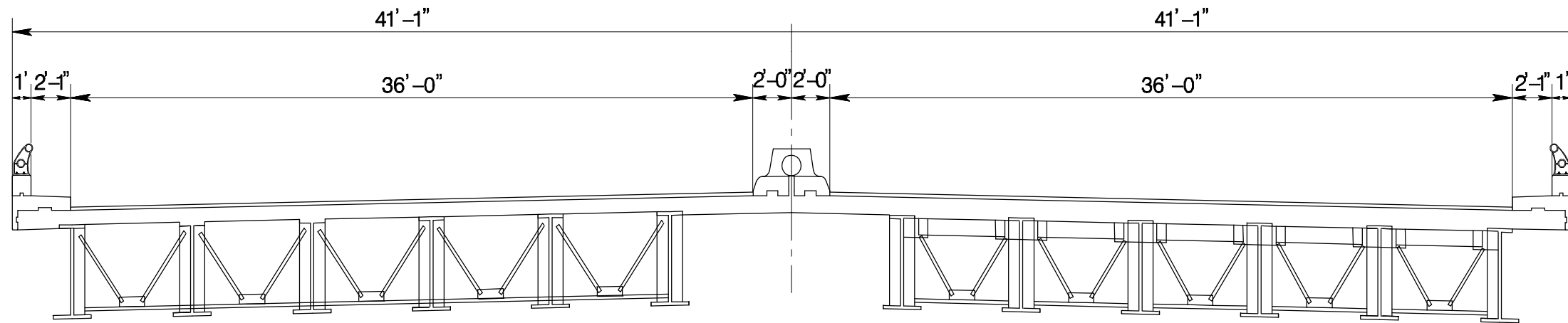


- NOTES: 1. FOR EACH TURNING MOVMENT ON BRIDGES, ADD 12' LANE AND MAINTAIN 10' SHOULDER.  
 2. FOR EACH TTRUCK LANE ON BRIDGES, ADD 12' LANE AND MAINTAIN 10' SHOULDER.  
 3. VERTICAL CLEARANCES - 16'-9" CLEARANCE OVER STATE AND U.S. ROUTES.  
 15'-0" CLEARANCE OVER CONTY ROUTES.

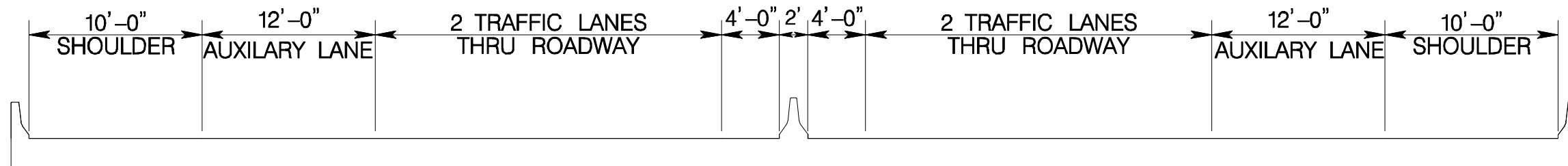
## TYPICAL CROSS SECTION FOR DIVIDED APPALACHIA CORRIDOR BRIDGES - FOUR LANES TOTAL TYPICAL BRIDGE DECK CROSS - SECTION NO. 200



## TYPICAL CROSS SECTION FOR BRIDGE OVER DIVIDED APPALACHIA CORRIDOR



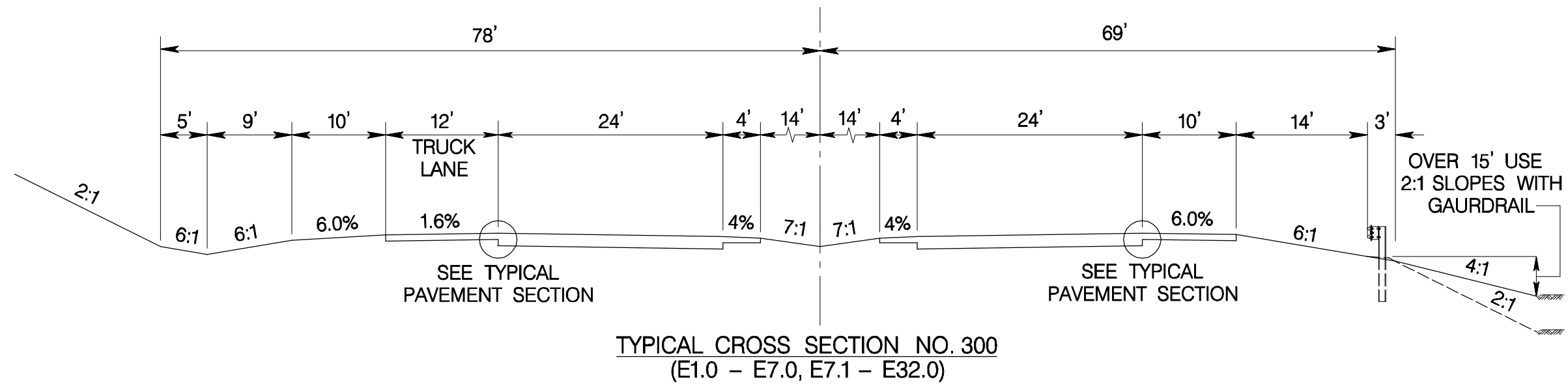
EXISTING  
CUMBERLAND THRUWAY VIADUCT  
TYPICAL CROSS SECTION NO. 201  
(E35.0 - E36.0)



CUMBERLAND THRUWAY VIADUCT  
TYPICAL CROSS SECTION  
OF IMPROVEMENT NO. 202

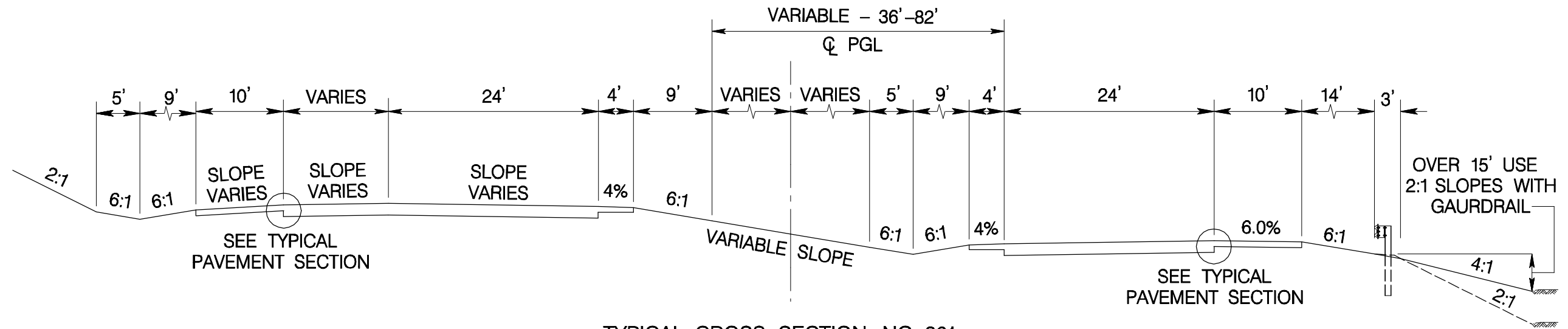
NOT TO SCALE

# TYPICAL CROSS - SECTIONS OF IMPROVEMENT





TYPICAL CROSS – SECTIONS OF IMPROVEMENT

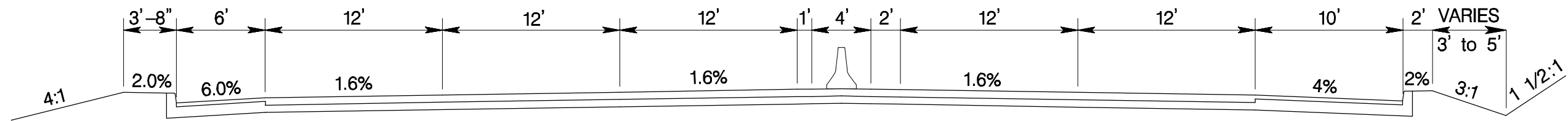


TYPICAL CROSS SECTION NO. 301  
(E7.0 - E7.1)

# TYPICAL CROSS – SECTIONS OF IMPROVEMENT

STATE OF MARYLAND

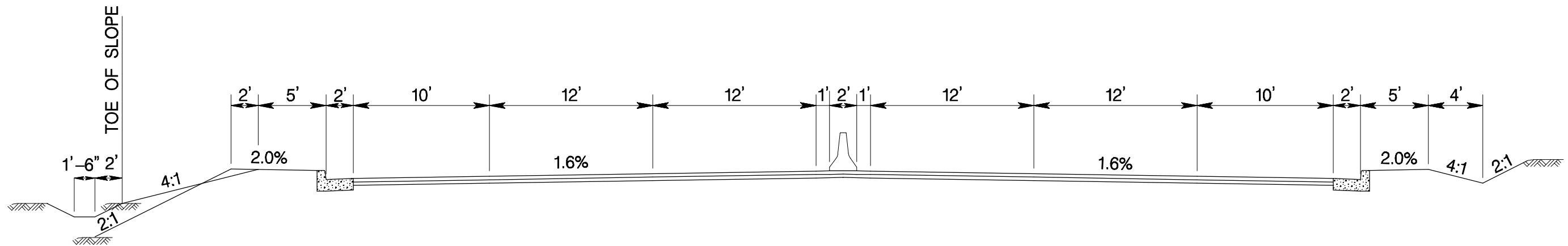
SHEET 5 OF 13



TYPICAL CROSS – SECTION NO. 302  
(E32.0 – E35.0)

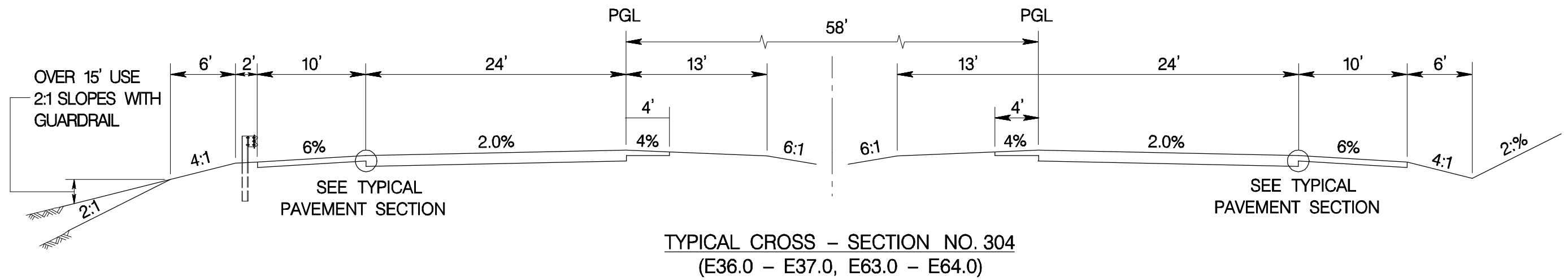
NOT TO SCALE

# TYPICAL CROSS – SECTIONS OF IMPROVEMENT



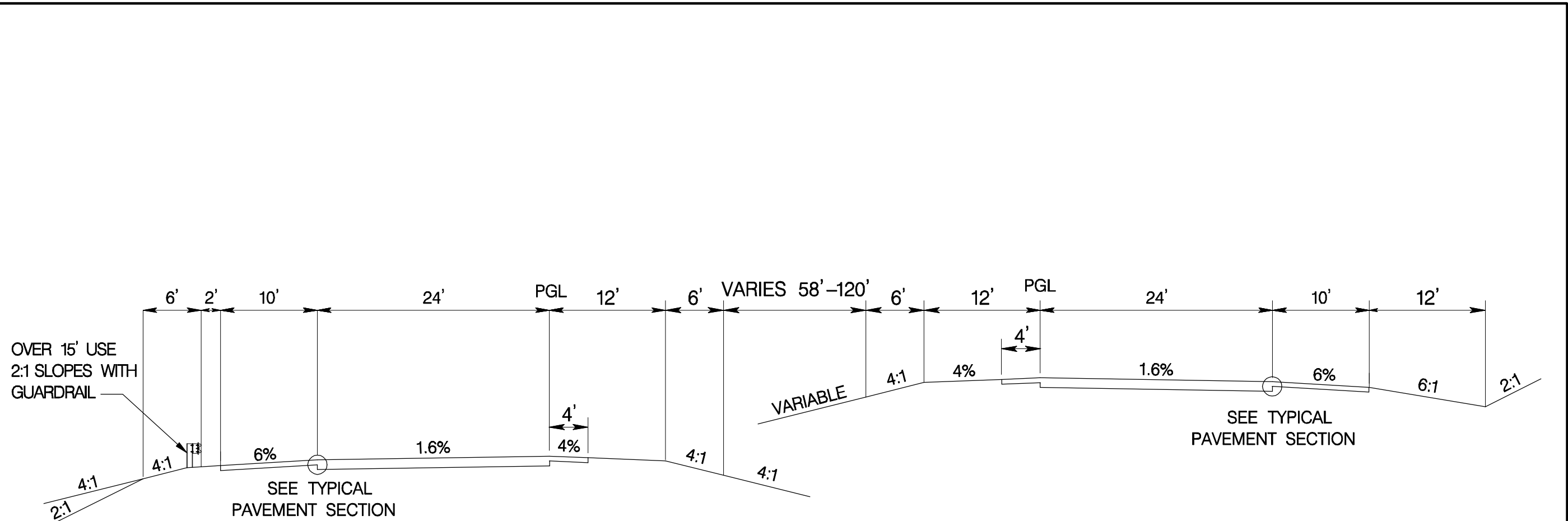
TYPICAL CROSS – SECTION NO. 303  
(E36.0)

NOT TO SCALE



TYPICAL CROSS - SECTION NO. 304  
(E36.0 - E37.0, E63.0 - E64.0)

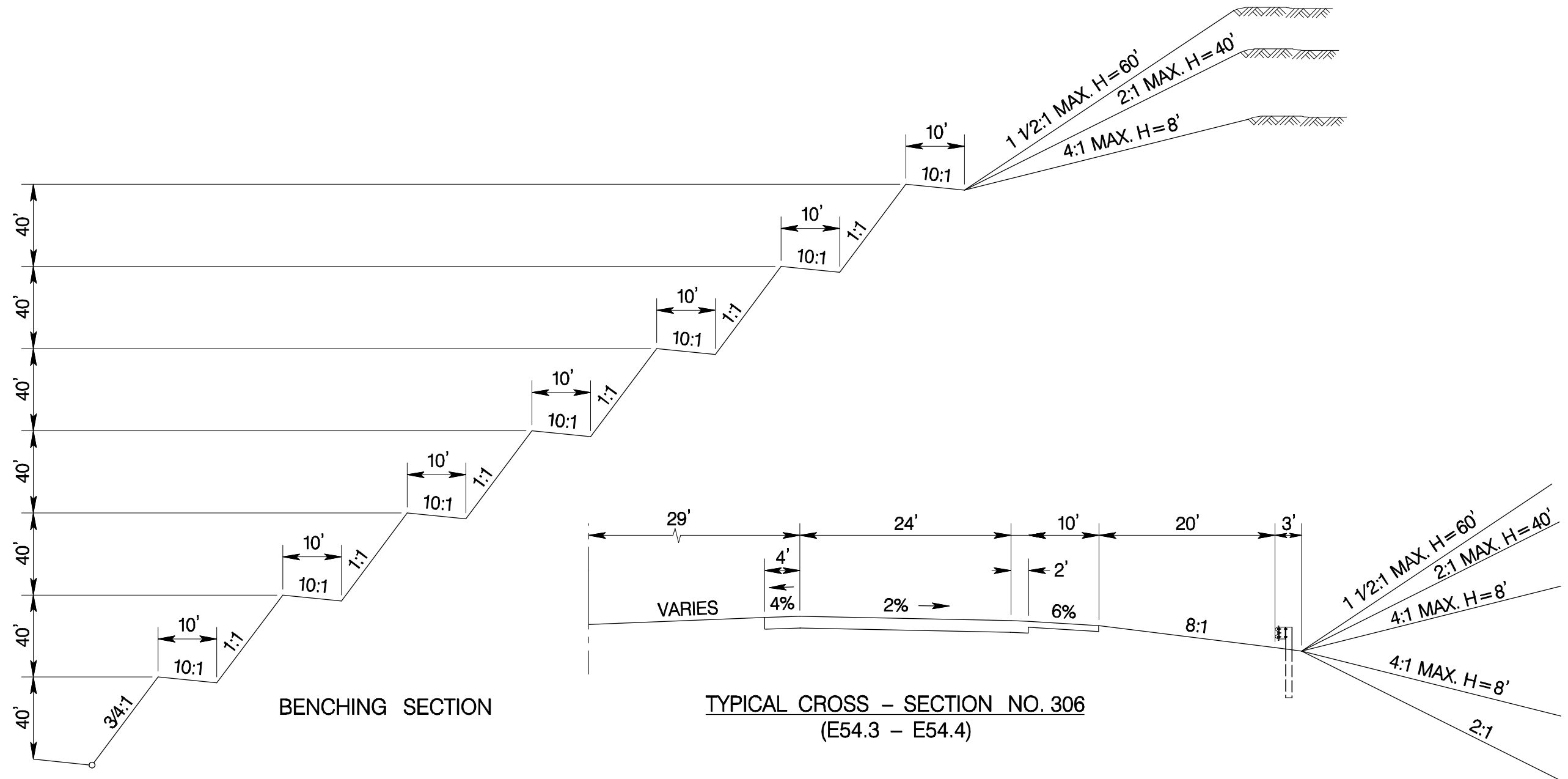
NOT TO SCALE



TYPICAL CROSS - SECTION NO. 305  
(E54.0 - E54.1, E54.5 - E63.0)

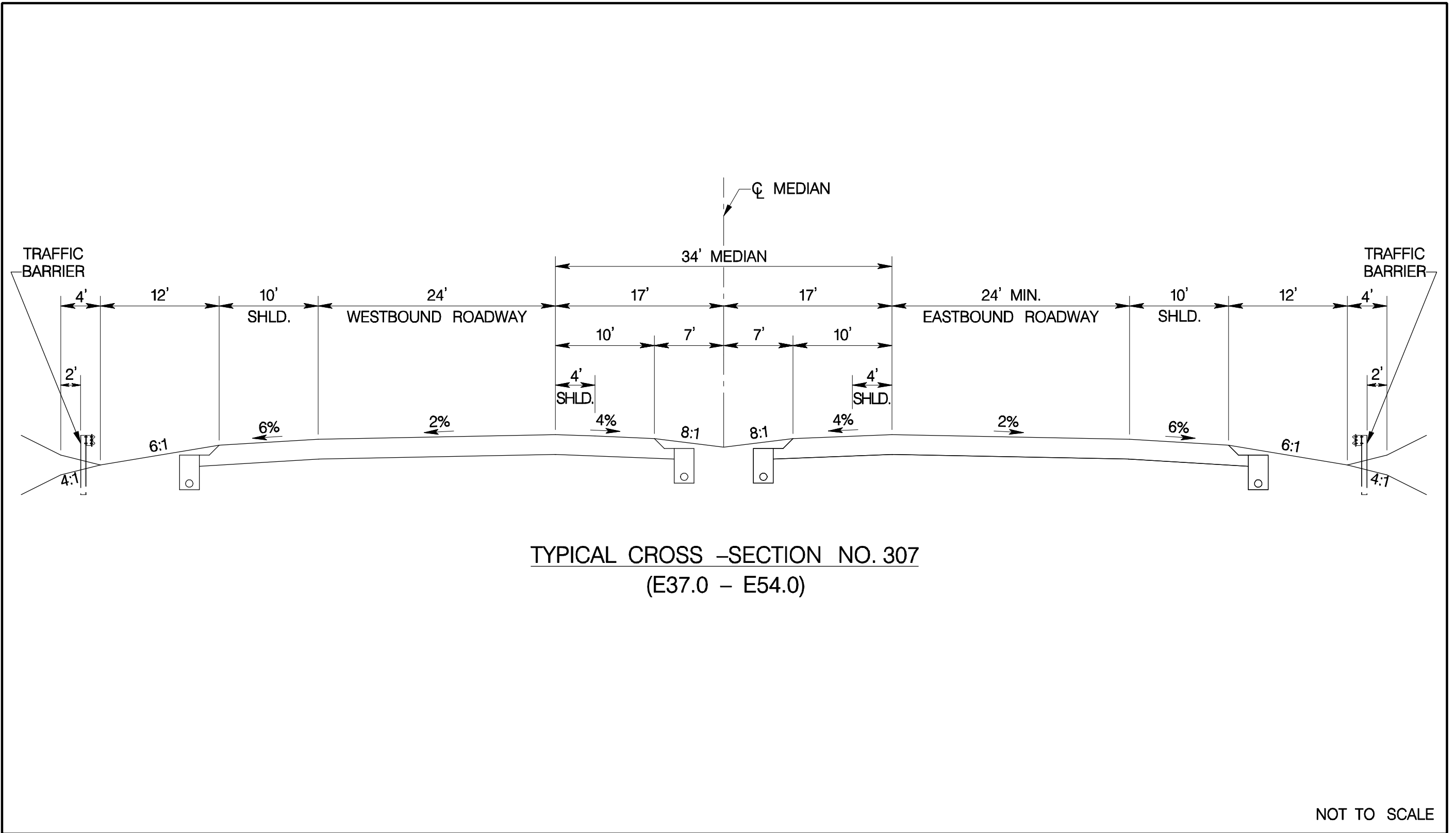
NOT TO SCALE

# TYPICAL CROSS - SECTION OF IMPROVEMENT



NOT TO SCALE

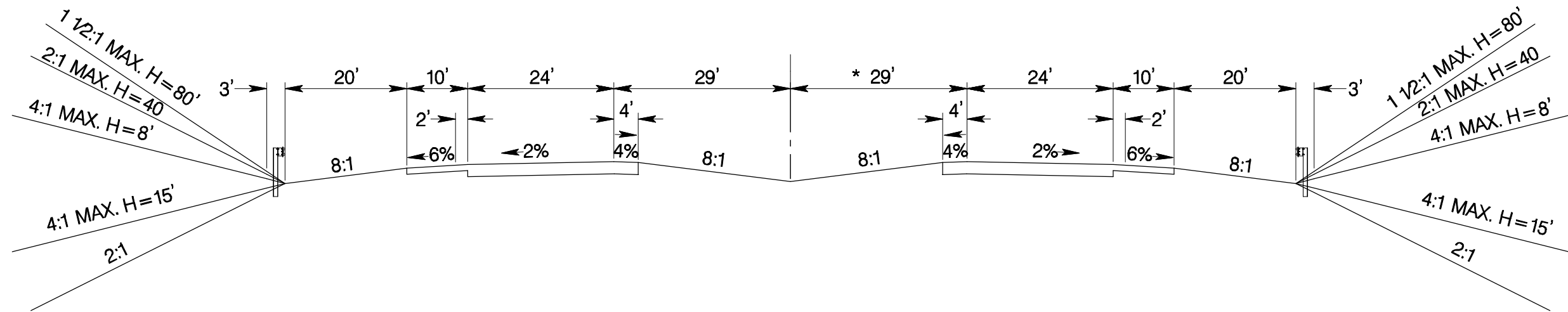
# TYPICAL CROSS -SECTION OF IMPROVEMENT



TYPICAL CROSS -SECTION NO. 307  
(E37.0 - E54.0)

NOT TO SCALE

# TYPICAL CROSS -SECTION OF IMPROVEMENT



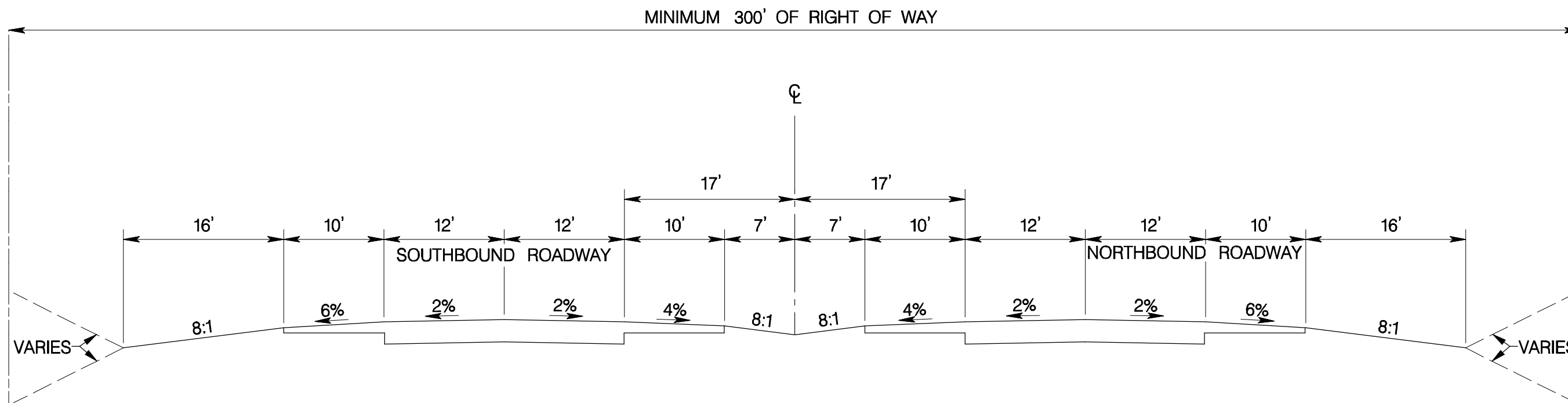
TYPICAL CROSS -SECTION NO. 309  
(E54.1 - E54.3, E54.4 - E54.5)

\* 29' MAXIMUM MEDIAN FOR STATIONS 2537= TO  
STA. 2555+ AND STATIONS 2504+ TO STA.2649+

NOT TO SCALE



# TYPICAL CROSS -SECTION OF IMPROVEMENT

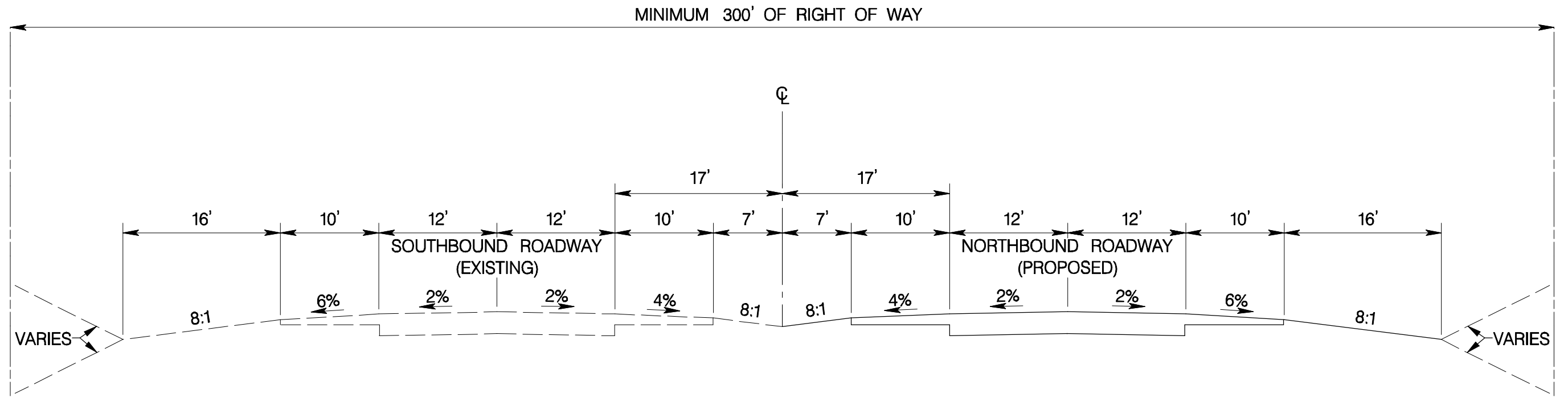


TYPICAL CROSS -SECTION NO. 310  
(N1.0 - N2.0)

NOTE: AN ADDITIONAL TRUCK CLIMBING  
LANE WILL BE ADDED AS NEEDED.  
FULL CONTROLL OF ACCESS.

NOT TO SCALE

TYPICAL CROSS -SECTION OF IMPROVEMENT



TYPICAL CROSS -SECTION NO. 311  
(O1.0 - O2.0)

NOTE: AN ADDITIONAL TRUCK CLIMBING  
LANE WILL BE ADDED AS NEEDED.  
FULL CONTROLL OF ACCESS.

NOT TO SCALE











**2007 Appalachian Development Highway System Cost Estimate**  
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: MD

ADHS Corridor: E

Section ID	E54.5.0	E63.0.0
<b>LRS Milepoint: Beginning/Ending</b>	<b>6.140/8.040</b>	<b>8.040/9.040</b>
<b>Status</b>	<b>Completed</b>	<b>NP</b>
1. Finance Code	20	20
2. Section Length(Miles)	2.1	1
3. Class/Urban Code	R/O	R/O
4. Location:		
---- a. FIPS State/County/Congressional	24/043/06	24/043/06
---- b. HPMS Route/Subroute	0000000068/00	0000000068/00
---- c. HPMS Signed Route/Strip Map #	0000000068/E5	0000000068/E5
5. Estimate Section/NHS Designation	1/NHS	2/NHS
6. Design Speed(mph)	60	60
7. Traffic:		
---- a. ADT-Base Year (2005)	20,600	20,600
---- b. ADT-Year 2015	24,600	24,600
---- c. Design Year	1,995	1,995
---- d. ADT-Design Year	14,700	14,700
---- e. DHV-Design Year	2,200	2,200
---- f. % Truck Design Year(DHV)	12	12
---- g. % Truck Design Year(ADT)	16	16
---- h. Directional Distribution Factor	60	60
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	305/Full	304/Full
11. Right-of-Way Width(ft), prevailing	300	300
12. Median Width(ft), prevailing	58	58
13. Status of Development(Figure 4)	1a	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 Separations	0	0
20. Highway Grade Separations 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
<b>27. Subtotal(lines 17 thru 26)</b>	<b>0</b>	<b>0</b>
28. Construction Engineering(15.00000000% of line 27)	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0
<b>30. Total Estimated Cost(lines 14, 15, 16, 29 &amp; 5% Contingency)</b>	<b>0</b>	<b>0</b>



**2007 Appalachian Development Highway System Cost Estimate**  
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: MD

ADHS Corridor: E

Section ID	Corridor Total	Rural Subtotal	Urban Subtotal
<b>LRS Milepoint</b>			
1. Finance Code			
2. Section Length(Miles)	80.60	76.40	4.20
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)			

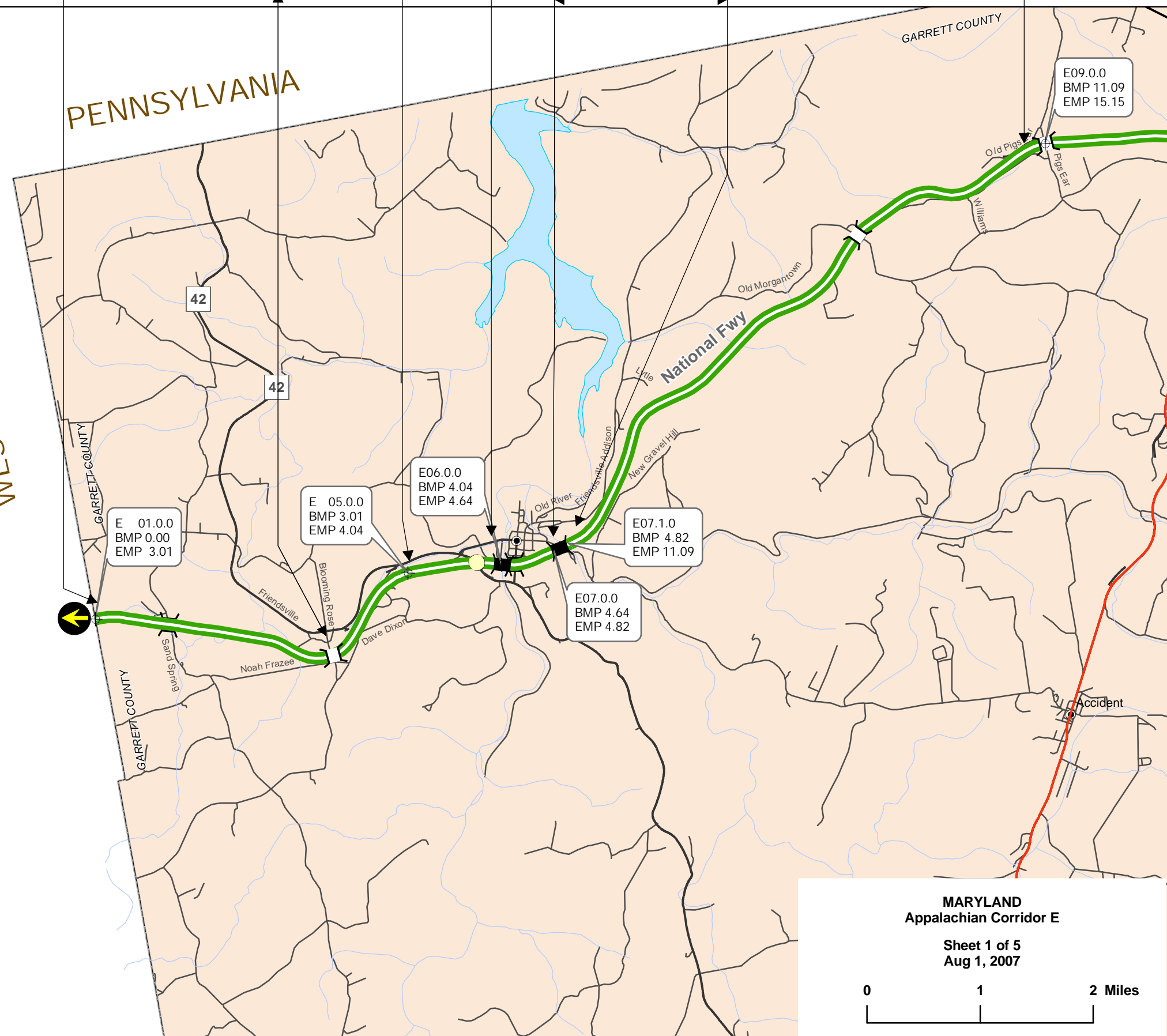
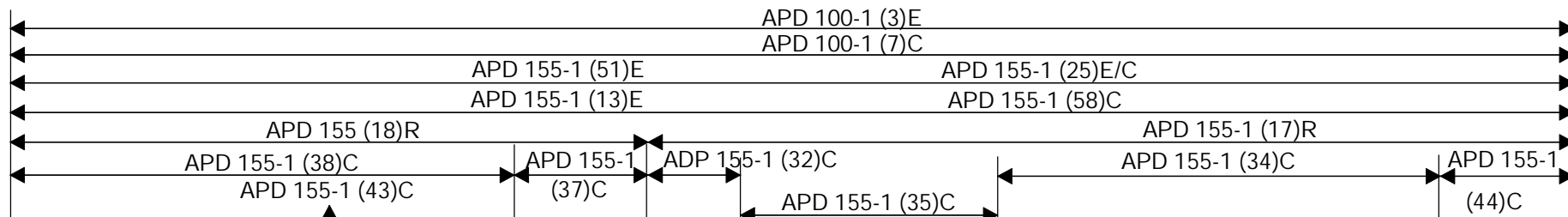
**Estimated Cost(\$1,000) per Work Classification**

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 Separations	0	0	0
20. Highway Grade Separations 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
<b>27. Subtotal(lines 17 thru 26)</b>	0	0	0
28. Construction Engineering(15.00000000% of line 27)	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0
<b>30. Total Estimated Cost(lines 14, 15, 16, 29 &amp; 5% Contingency)</b>	0	0	0



PENNSYLVANIA

WEST VIRGINIA



E09.0.0  
BMP 11.09  
EMP 15.15

E06.0.0  
BMP 4.04  
EMP 4.64

E 05.0.0  
BMP 3.01  
EMP 4.04

E 01.0.0  
BMP 0.00  
EMP 3.01

E07.1.0  
BMP 4.82  
EMP 11.09

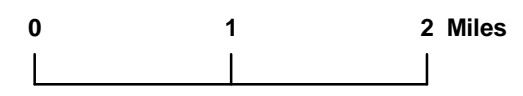
E07.0.0  
BMP 4.64  
EMP 4.82

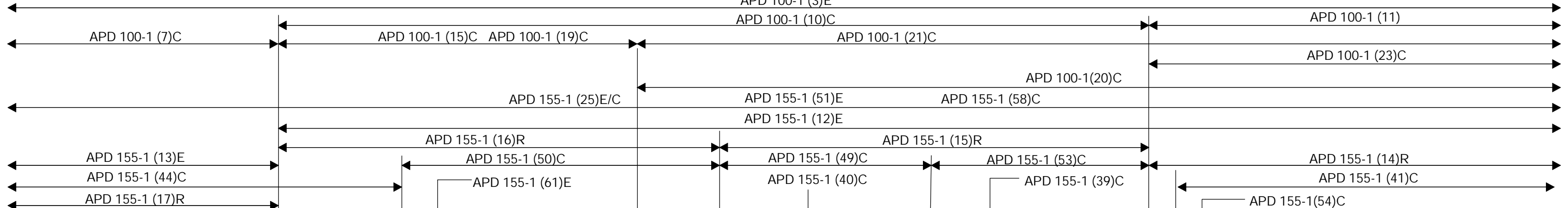
**LEGEND FOR APPALACHIAN ROUTES**

- |                                     |   |   |
|-------------------------------------|---|---|
| <b>ADHS ROUTE STATUS</b>            |   | Other Bridge                                  |
| Complete (1a, 1b)                   | Stage Construction (3a3a, 3a3b, 3a3c, 3a3d) | Combination Highway-Railroad Grade Separation |
| Final Construction (3a2)            | Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)      | Tunnel  |
| Location Study (5a1, 5a2, 5a3, 5a4) | Nonparticipating (NP)                       | Interchange                                   |
| Interstates                         | Other NHS Route                             | Railroad Grade Separation                     |
| Other NHS Route                     | Other Major Road                            | Highway Grade Separation - No Connection      |
| TOLL Toll Bridge, Highway           | Urban Areas                                 |   |

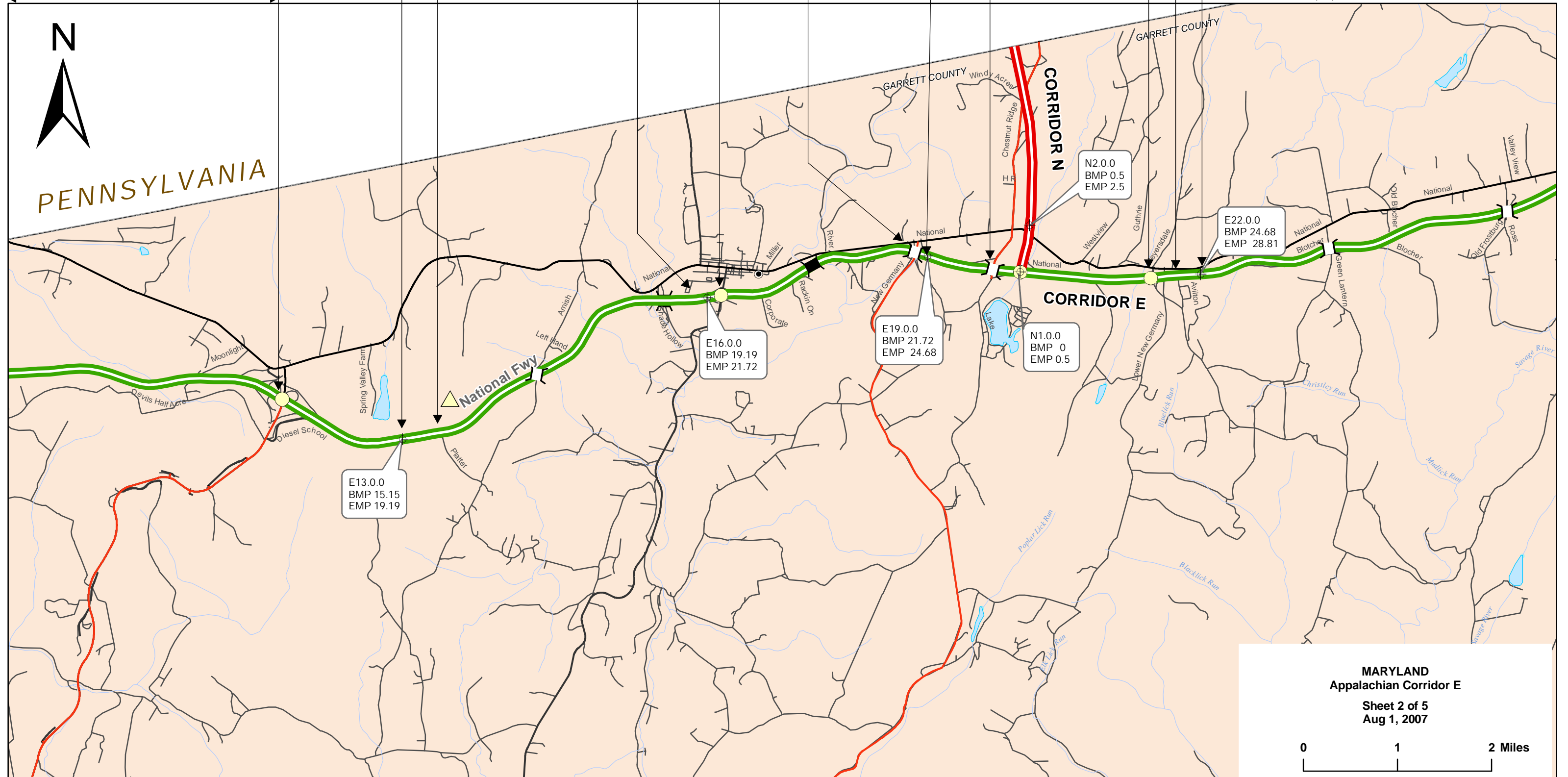
Section ID  
Beginning Milepoint  
Ending Milepoint

**MARYLAND**  
**Appalachian Corridor E**  
Sheet 1 of 5  
Aug 1, 2007





**N**  
  
**PENNSYLVANIA**



E13.0.0  
 BMP 15.15  
 EMP 19.19

E16.0.0  
 BMP 19.19  
 EMP 21.72

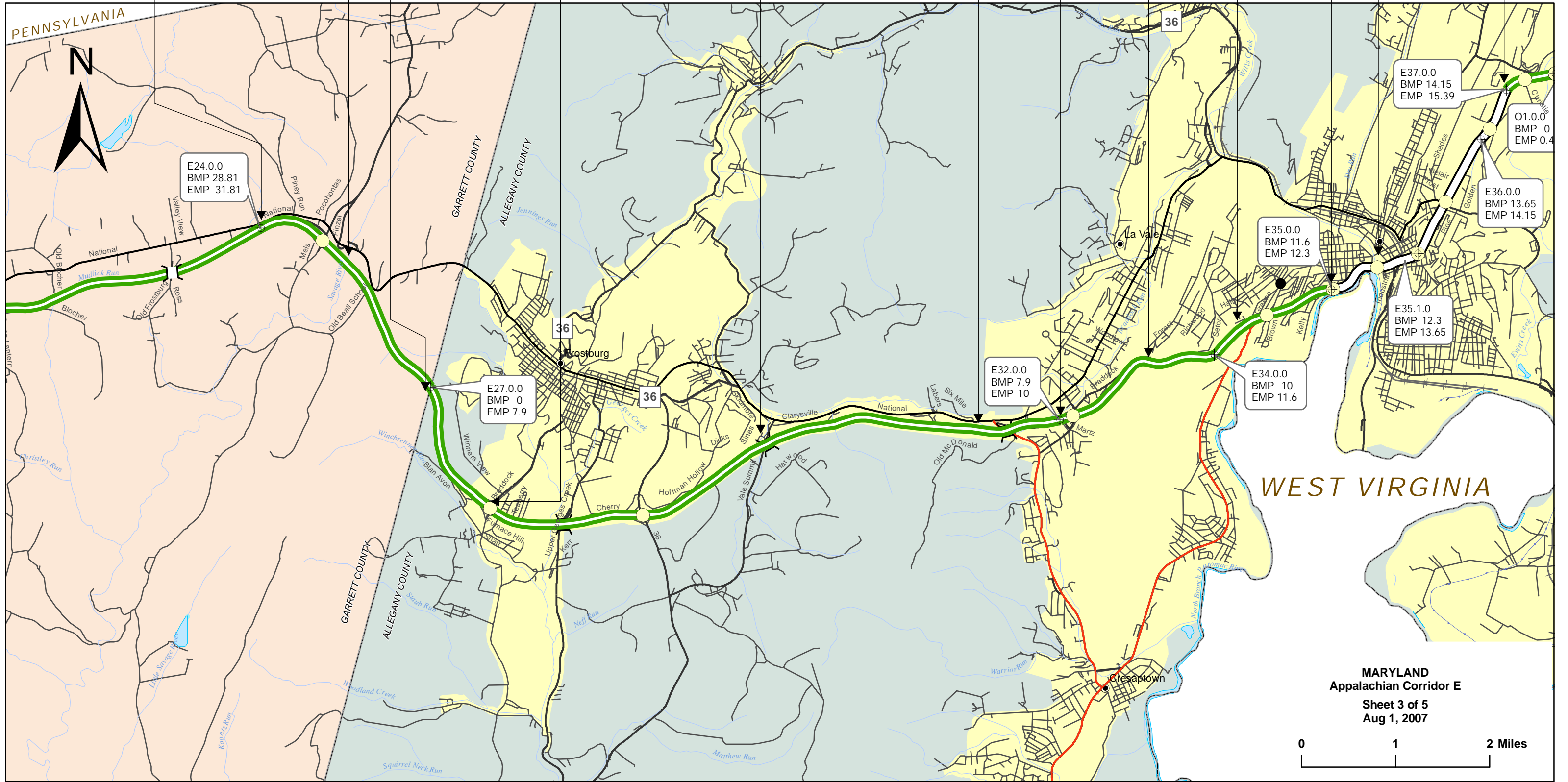
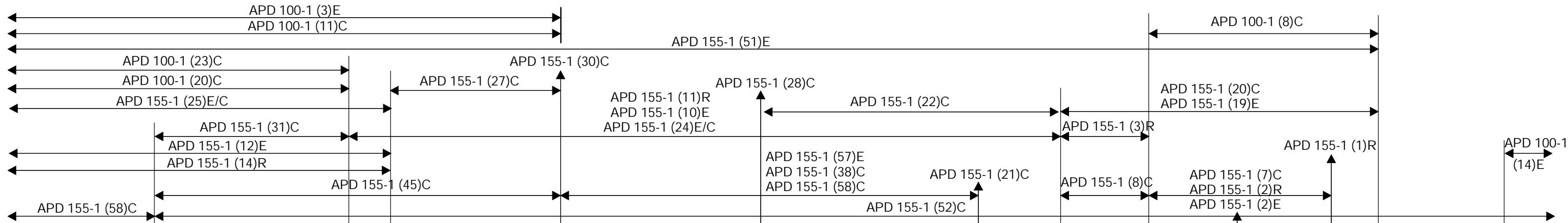
E19.0.0  
 BMP 21.72  
 EMP 24.68

N1.0.0  
 BMP 0  
 EMP 0.5

N2.0.0  
 BMP 0.5  
 EMP 2.5

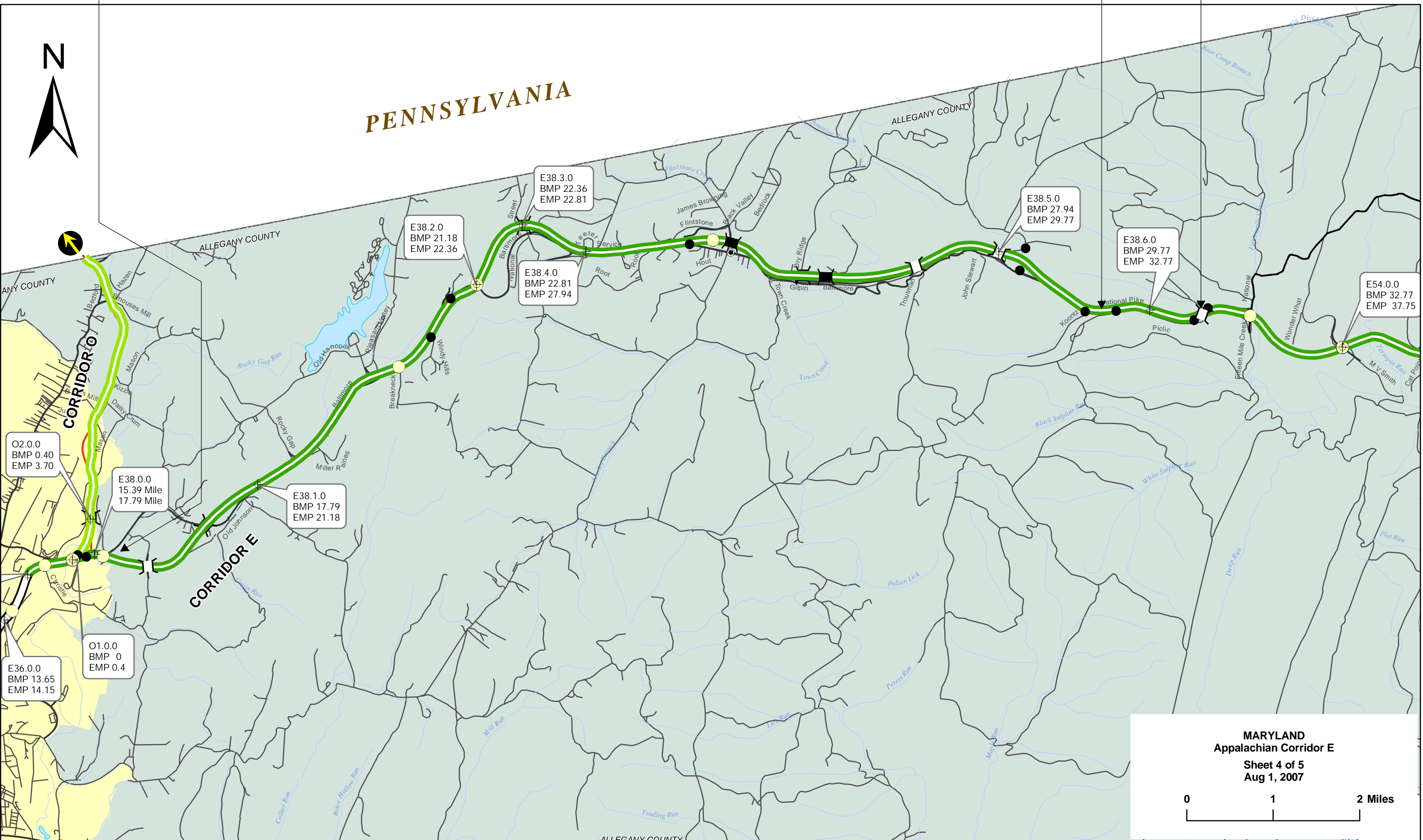
E22.0.0  
 BMP 24.68  
 EMP 28.81

**MARYLAND**  
**Appalachian Corridor E**  
 Sheet 2 of 5  
 Aug 1, 2007

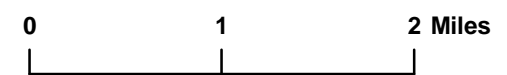


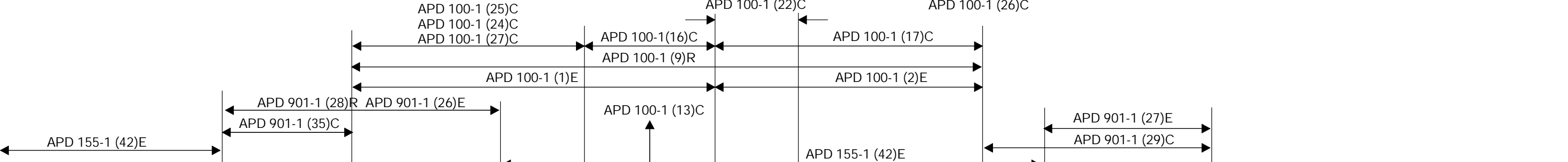


# PENNSYLVANIA

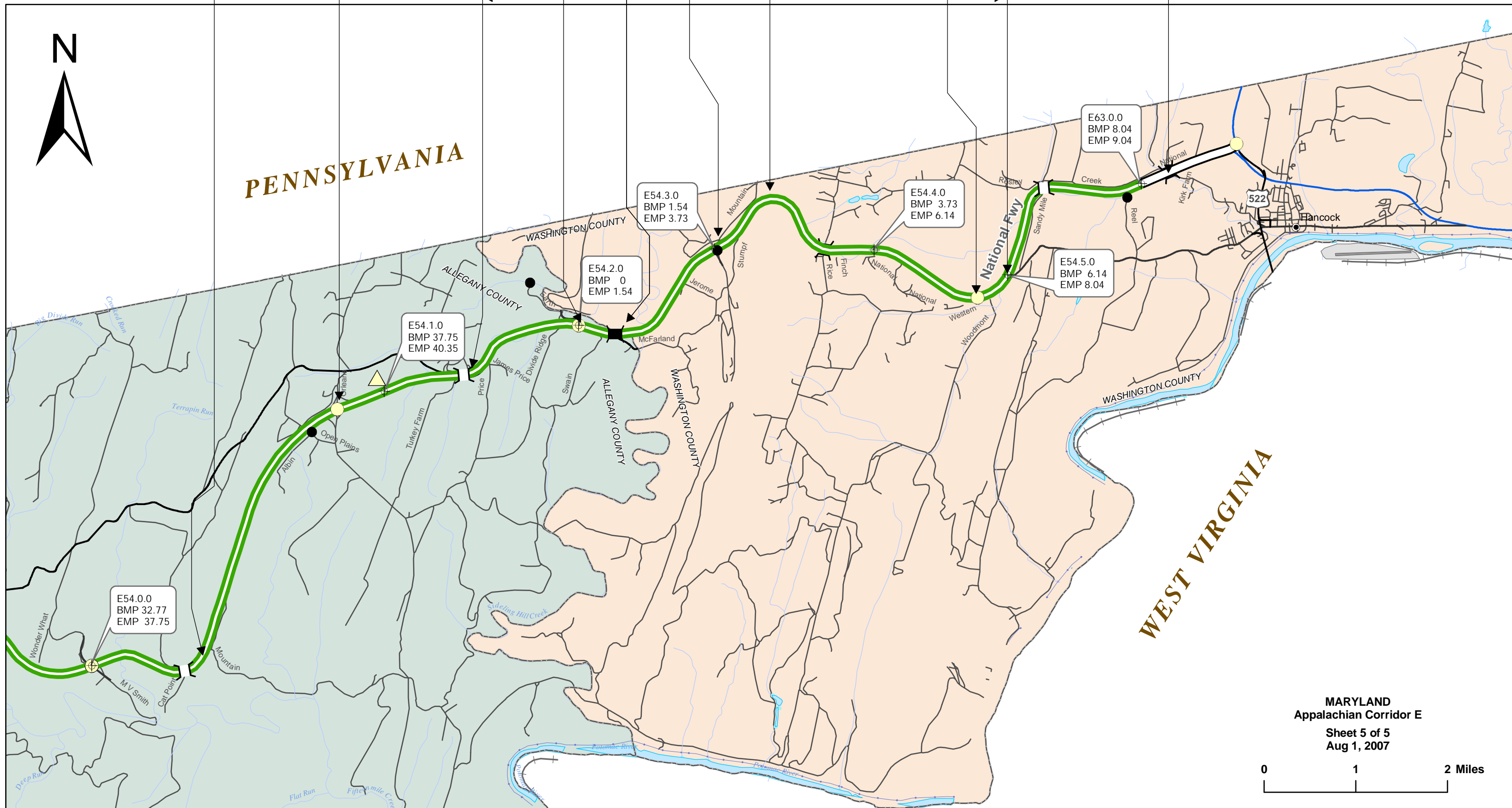


**MARYLAND**  
**Appalachian Corridor E**  
 Sheet 4 of 5  
 Aug 1, 2007



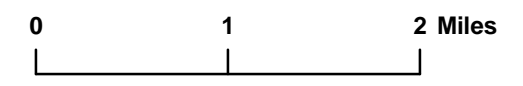


**PENNSYLVANIA**



**WEST VIRGINIA**

**MARYLAND**  
**Appalachian Corridor E**  
 Sheet 5 of 5  
 Aug 1, 2007



**2007 Appalachian Development Highway System Cost Estimate**  
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: MD

ADHS Corridor: N

Section ID LRS Milepoint: Beginning/Ending Status	N1.0.0	N2.0.0
	0.000/0.500	0.500/2.500
	<b>Location Study</b>	<b>Location Study</b>
1. Finance Code	23	23
2. Section Length(Miles)	0.5	2
3. Class/Urban Code	R/0	R/0
4. Location:		
---- a. FIPS State/County/Congressional	24/023/06	24/023/06
---- b. HPMS Route/Subroute	0000219APD/00	0000219APD/00
---- c. HPMS Signed Route/Strip Map #	0000000219/N1	0000000219/N1
5. Estimate Section/NHS Designation	1/NHS	2/NHS
6. Design Speed(mph)	70	70
7. Traffic:		
---- a. ADT-Base Year (2005)	4,250	4,250
---- b. ADT-Year 2015	5,180	5,180
---- c. Design Year	2,025	2,025
---- d. ADT-Design Year	5,400	5,400
---- e. DHV-Design Year	595	595
---- f. % Truck Design Year(DHV)	11	11
---- g. % Truck Design Year(ADT)	14	14
---- h. Directional Distribution Factor	55	55
8. Number of Lanes to be Constructed this Estimate	4	4
9. Ultimate Number of Through Traffic Lanes	4	4
10. Typical X-Section of Reference/Access Control	310/Full	310/Full
11. Right-of-Way Width(ft), prevailing	300	300
12. Median Width(ft), prevailing	34	34
13. Status of Development(Figure 4)	5a3	5a3

**Estimated Cost(\$1,000) per Work Classification**

14. Preliminary Engineering:		
---- a. Location	1,544	1,544
---- b. Design	6,387	10,830
15. Right-of-Way:		
---- a. Acquisition	0	3,500
---- b. Relocation	0	0
16. Utility Adjustments	1,074	1,956
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	37,401
18. Subbase, Base, Surfacing, Shoulders	0	6,949
19. Railroad Grade Separations	0	0
20. Highway Grade Separations without Ramps	0	1,944
21. Interchanges	35,953	0
22. Other Bridges, Tunnels, and Walls	0	9,974
23. Traffic Control	0	282
24. Environmental Mitigation	0	1,462
25. Roadside Improvements:		
---- a. Landscape Planting	0	2,813
---- b. Rest Area, Overlooks	0	0
26. All Other Items	0	0
<b>27. Subtotal(lines 17 thru 26)</b>	<b>35,953</b>	<b>60,825</b>
28. Construction Engineering(15.00000000% of line 27)	5,393	9,124
29. Total Cost of Construction(lines 27 & 28)	41,346	69,949
<b>30. Total Estimated Cost(lines 14, 15, 16, 29 &amp; 5% Contingency)</b>	<b>52,868</b>	<b>92,168</b>

**2007 Appalachian Development Highway System Cost Estimate**  
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: MD

ADHS Corridor: N

Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code			
2. Section Length(Miles)	2.50	2.50	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**

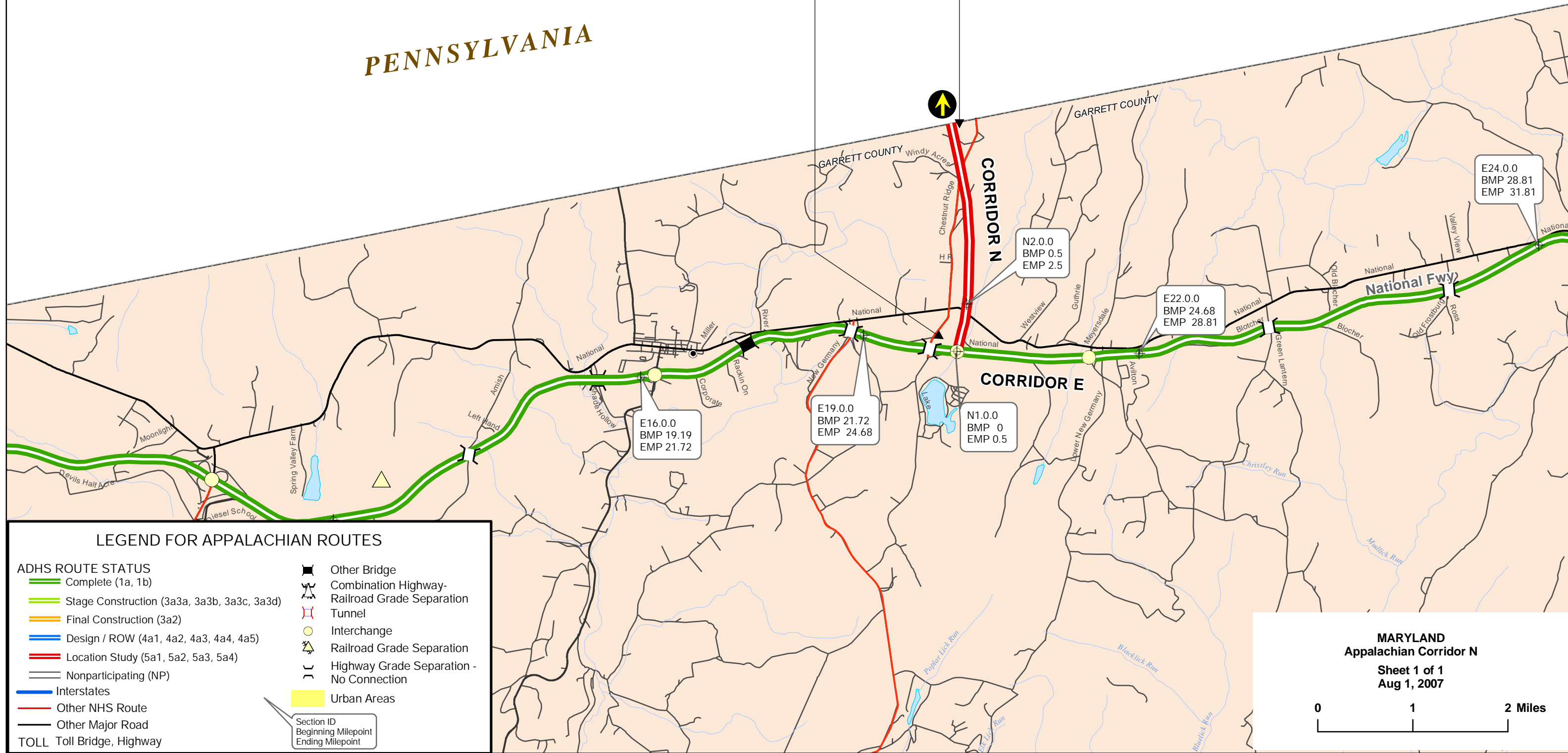
14. Preliminary Engineering:			
---- a. Location	3,088	3,088	0
---- b. Design	17,217	17,217	0
15. Right-of-Way:			
---- a. Acquisition	3,500	3,500	0
---- b. Relocation	0	0	0
16. Utility Adjustments	3,030	3,030	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	37,401	37,401	0
18. Subbase, Base, Surfacing, Shoulders	6,949	6,949	0
19. Railroad Grade Separations	0	0	0
20. Highway Grade Separations without Ramps	1,944	1,944	0
21. Interchanges	35,953	35,953	0
22. Other Bridges, Tunnels, and Walls	9,974	9,974	0
23. Traffic Control	282	282	0
24. Environmental Mitigation	1,462	1,462	0
25. Roadside Improvements:			
---- a. Landscape Planting	2,813	2,813	0
---- b. Rest Area, Overlooks	0	0	0
26. All Other Items	0	0	0
<b>27. Subtotal(lines 17 thru 26)</b>	<b>96,778</b>	<b>96,778</b>	<b>0</b>
28. Construction Engineering(15.00000000% of line 27)	14,517	14,517	0
29. Total Cost of Construction(lines 27 & 28)	111,295	111,295	0
<b>30. Total Estimated Cost(lines 14, 15, 16, 29 &amp; 5% Contingency)</b>	<b>145,036</b>	<b>145,036</b>	<b>0</b>





PENNSYLVANIA

APD 203-1 (1)E



N2.0.0  
BMP 0.5  
EMP 2.5

E22.0.0  
BMP 24.68  
EMP 28.81

E24.0.0  
BMP 28.81  
EMP 31.81

E16.0.0  
BMP 19.19  
EMP 21.72

E19.0.0  
BMP 21.72  
EMP 24.68

N1.0.0  
BMP 0  
EMP 0.5

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

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**2007 Appalachian Development Highway System Cost Estimate**  
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: MD

ADHS Corridor: O

Section ID LRS Milepoint: Beginning/Ending Status	01.0.0	02.0.0
	0.000/0.400	0.400/3.700
	<b>Stage Construction</b>	<b>Stage Construction</b>
1. Finance Code	21	21
2. Section Length(Miles)	0.4	3.3
3. Class/Urban Code	R/0	R/0
4. Location:		
---- a. FIPS State/County/Congressional	24/001/06	24/001/06
---- b. HPMS Route/Subroute	0000000220/00	0000000220/00
---- c. HPMS Signed Route/Strip Map #	0000000220/01	0000000220/01
5. Estimate Section/NHS Designation	1/NHS	2/NHS
6. Design Speed(mph)	70	70
7. Traffic:		
---- a. ADT-Base Year (2005)	3,800	3,800
---- b. ADT-Year 2015	5,900	5,900
---- c. Design Year	2,015	2,015
---- d. ADT-Design Year	5,725	5,725
---- e. DHV-Design Year	570	570
---- f. % Truck Design Year(DHV)	16	16
---- g. % Truck Design Year(ADT)	15	15
---- h. Directional Distribution Factor	59	59
8. Number of Lanes to be Constructed this Estimate	0	2
9. Ultimate Number of Through Traffic Lanes	4	4
10. Typical X-Section of Reference/Access Control	311/Full	311/Full
11. Right-of-Way Width(ft), prevailing	300	300
12. Median Width(ft), prevailing	34	34
13. Status of Development(Figure 4)	3a3a	3a3a

**Estimated Cost(\$1,000) per Work Classification**

14. Preliminary Engineering:		
---- a. Location	0	0
---- b. Design	4,207	6,231
15. Right-of-Way:		
---- a. Acquisition	0	0
---- b. Relocation	0	0
16. Utility Adjustments	170	2,250
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	15,526
18. Subbase, Base, Surfacing, Shoulders	0	7,820
19. Railroad Grade Separations	0	0
20. Highway Grade Separations without Ramps	0	3,000
21. Interchanges	24,215	0
22. Other Bridges, Tunnels, and Walls	0	5,313
23. Traffic Control	0	340
24. Environmental Mitigation	0	128
25. Roadside Improvements:		
---- a. Landscape Planting	0	1,583
---- b. Rest Area, Overlooks	0	0
26. All Other Items	0	0
<b>27. Subtotal(lines 17 thru 26)</b>	<b>24,215</b>	<b>33,710</b>
28. Construction Engineering(15.00000000% of line 27)	<b>3,632</b>	<b>5,056</b>
29. Total Cost of Construction(lines 27 & 28)	<b>27,847</b>	<b>38,766</b>
<b>30. Total Estimated Cost(lines 14, 15, 16, 29 &amp; 5% Contingency)</b>	<b>33,835</b>	<b>49,610</b>

**2007 Appalachian Development Highway System Cost Estimate**  
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: MD

ADHS Corridor: 0

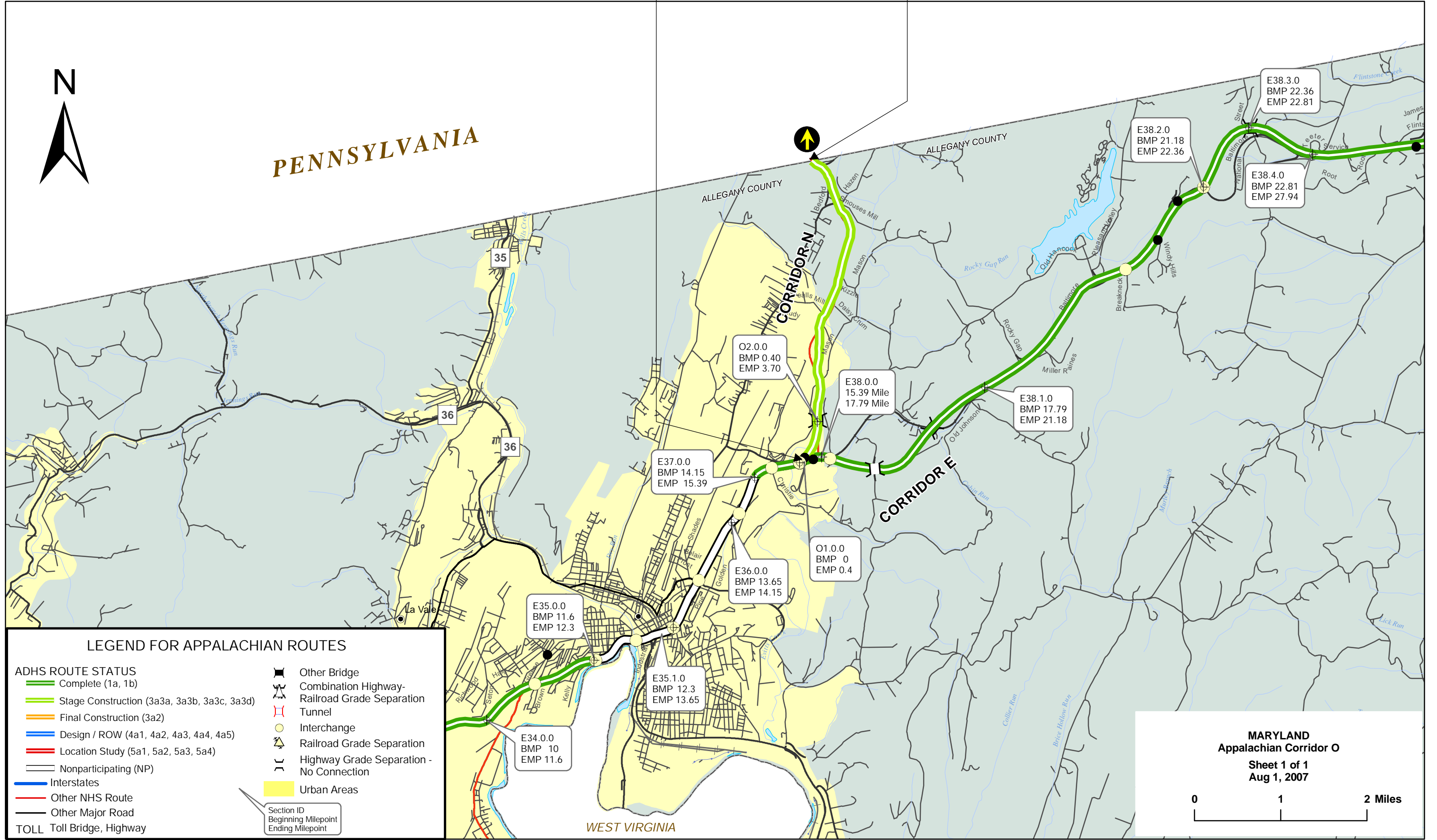
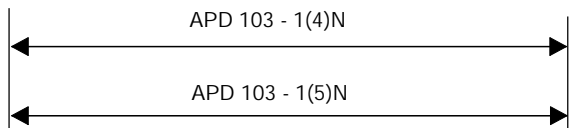
Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code			
2. Section Length(Miles)	3.70	3.70	0.00
3. Class/Urban Code			
4. Location:			
---- a. FIPS State/County/Congressional			
---- b. HPMS Route/Subroute			
---- c. HPMS Signed Route/Strip Map #			
5. Estimate Section/NHS 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	10,438	10,438	0
15. Right-of-Way:			
---- a. Acquisition	0	0	0
---- b. Relocation	0	0	0
16. Utility Adjustments	2,420	2,420	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	15,526	15,526	0
18. Subbase, Base, Surfacing, Shoulders	7,820	7,820	0
19. Railroad Grade Separations	0	0	0
20. Highway Grade Separations without Ramps	3,000	3,000	0
21. Interchanges	24,215	24,215	0
22. Other Bridges, Tunnels, and Walls	5,313	5,313	0
23. Traffic Control	340	340	0
24. Environmental Mitigation	128	128	0
25. Roadside Improvements:			
---- a. Landscape Planting	1,583	1,583	0
---- b. Rest Area, Overlooks	0	0	0
26. All Other Items	0	0	0
<b>27. Subtotal(lines 17 thru 26)</b>	<b>57,925</b>	<b>57,925</b>	<b>0</b>
28. Construction Engineering(15.00000000% of line 27)	8,689	8,689	0
29. Total Cost of Construction(lines 27 & 28)	66,614	66,614	0
<b>30. Total Estimated Cost(lines 14, 15, 16, 29 &amp; 5% Contingency)</b>	<b>83,445</b>	<b>83,445</b>	<b>0</b>



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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

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**2007 Appalachian Development Highway System Cost Estimate**

**Table C State/Commonwealth of Maryland**

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	E		N		O	
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban
Length in miles	0.0	0.0	2.5	0.0	3.7	0.0
Total Mileage (Rural + Urban)	0.0		2.5		3.7	
Work Classification	Estimated Costs (\$1,000)					
14. Preliminary Engineering: a. Location	0	0	3,088	0	0	0
b. Design	0	0	17,217	0	10,438	0
15. Right-of-Way: a. Acquisition	0	0	3,500	0	0	0
b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	0	3,030	0	2,420	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	0	0	37,401	0	15,526	0
18. Subbase, Base, Surfacing, Shoulders	0	0	6,949	0	7,820	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separation without Ramps	0	0	1,944	0	3,000	0
21. Interchanges	0	0	35,953	0	24,215	0
22. Other Bridges, Tunnels, and Walls	0	0	9,974	0	5,313	0
23. Traffic Control	0	0	282	0	340	0
24. Environmental Mitigation	0	0	1,462	0	128	0
25. Roadside Improvements: a. Landscape Planting	0	0	2,813	0	1,583	0
b. Rest Areas, Overlooks	0	0	0	0	0	0
26. All Other Items	0	0	0	0	0	0
27. Subtotal (Lines 17 through 26)	0	0	96,778	0	57,925	0
28. Construction E & C (15.00 % of line 27 and 28)	0	0	14,517	0	8,689	0
29. Total Cost of Construction (lines 27 and 28)	0	0	111,295	0	66,614	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)	0	0	145,036	0	83,445	0
31. Total Cost (Rural + Urban)	0		145,036		83,445	



**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 Maryland

**TABLE E**

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

State/Commonwealth of Maryland

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
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