

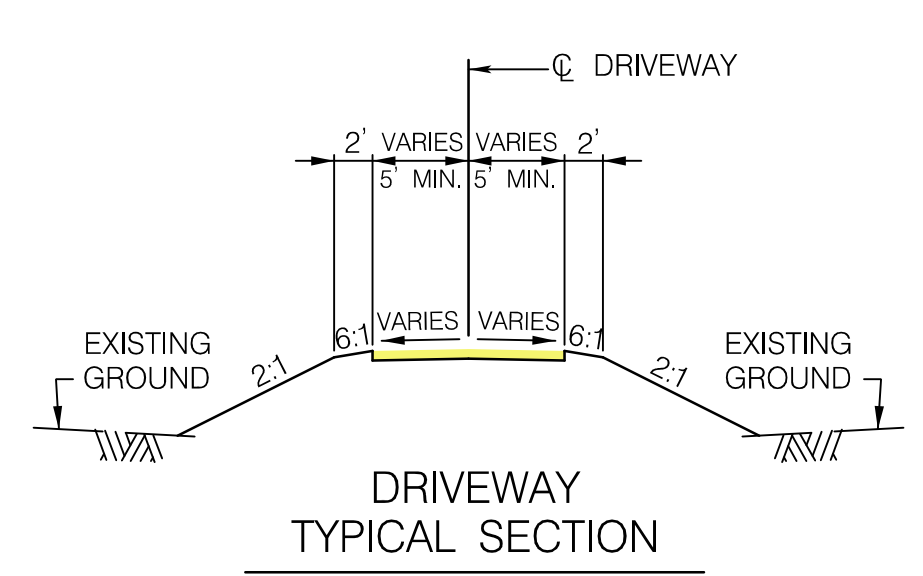
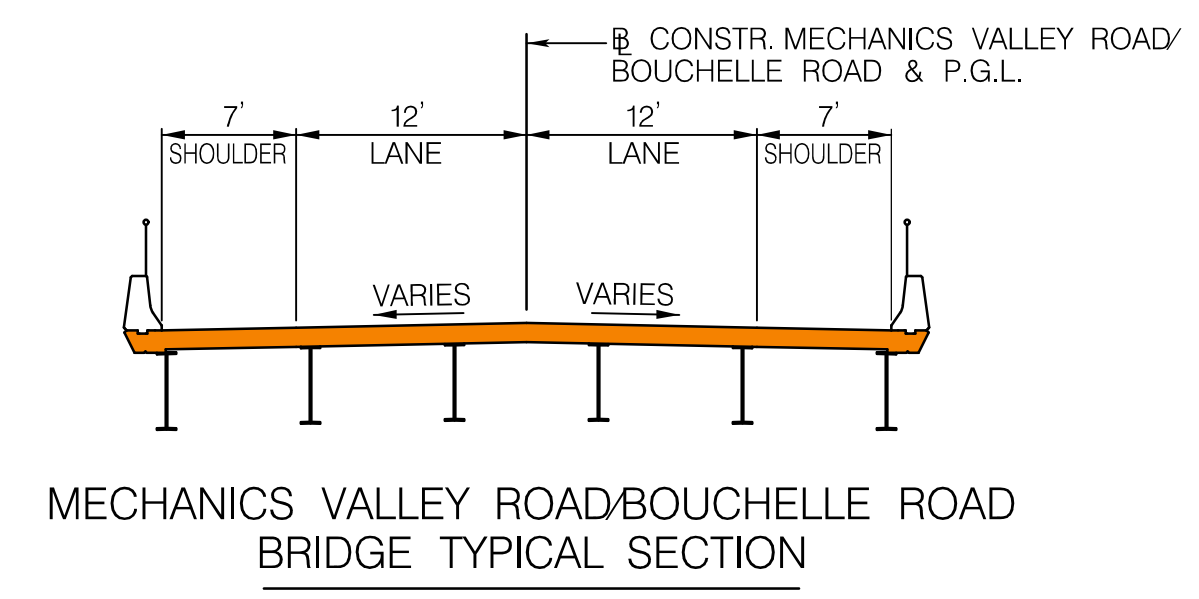
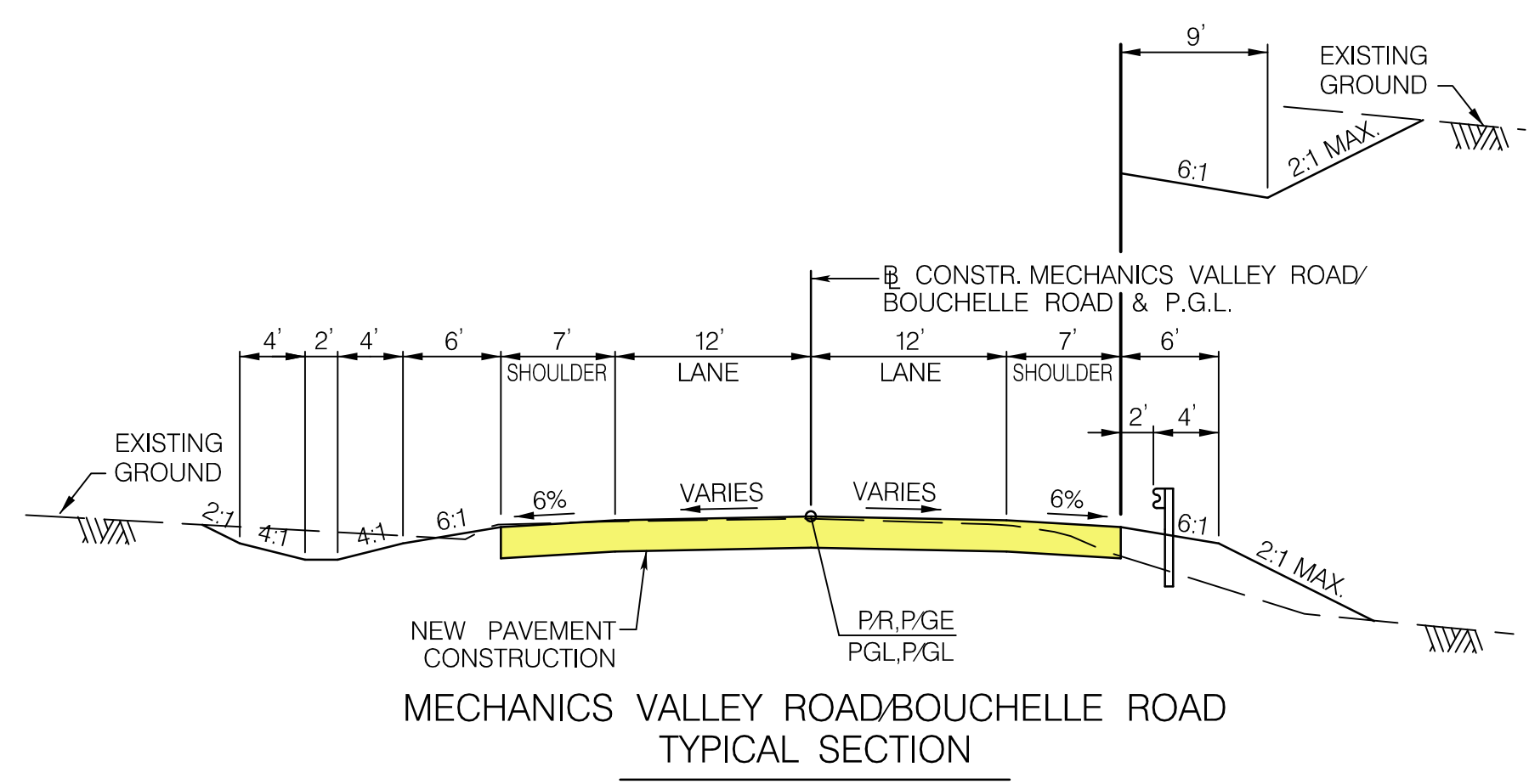
**CURVE #5**  
 $\Delta = 5^\circ 24' 52.9''$  RT.  
 $D_c = 2^\circ 17' 30.6''$   
 $R = 2,500.00'$   
 $T = 118.22'$   
 $L = 236.26'$   
 $E = 2.79'$   
 $SE = 2.0\%$

**CURVE #1**  
 $\Delta = 7^\circ 32' 24.5''$  RT.  
 $D_c = 1^\circ 54' 35.5''$   
 $R = 3,000.00'$   
 $T = 197.69'$   
 $L = 394.80'$   
 $E = 6.51'$   
 $SE = 2.4\%$

**CURVE #4**  
 $\Delta = 54^\circ 42' 21.7''$  RT.  
 $D_c = 11^\circ 14' 04.1''$   
 $R = 510.00'$   
 $T = 263.63'$   
 $L = 486.95'$   
 $E = 64.20'$   
 $SE = 6.0\%$

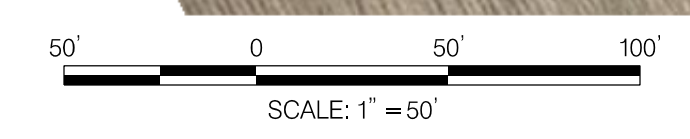
**CURVE #2**  
 $\Delta = 16^\circ 44' 59.0''$  RT.  
 $D_c = 7^\circ 09' 43.1''$   
 $R = 800.00'$   
 $T = 117.78'$   
 $L = 233.87'$   
 $E = 8.62'$   
 $SE = 5.3\%$

**CURVE #3**  
 $\Delta = 0^\circ 52' 16.6''$  RT.  
 $D_c = 0^\circ 54' 22.6''$   
 $R = 10,000.00'$   
 $T = 76.03'$   
 $L = 152.07'$   
 $E = 0.29'$   
 $SE = NC$



**DESIGN PARAMETERS**  
 DESIGN SPEED = 40 MPH  
 SE MAX = 6%  
 AASHTO STOPPING SIGHT DISTANCE = 305'  
 DESIGN STOPPING SIGHT DISTANCE = 312'  
 AASHTO INTERSECTION RIGHT TURN SIGHT DISTANCE = 385'  
 AASHTO INTERSECTION LEFT TURN SIGHT DISTANCE = 445'  
 EXISTING INTERSECTION SIGHT DISTANCE = 243' (VERTICAL CONTROLS)  
 PROPOSED INTERSECTION RIGHT & LEFT TURN SIGHT DISTANCE = 355'  
 EXISTING VERTICAL DESIGN SPEED = 30 MPH  
 (EX. K=18.75 - AASHTO K=19 FOR 30 MPH)  
 DESIGN VERTICAL BRIDGE UNDER CLEARANCE = 23.0'  
 DESIGN BRIDGE STRUCTURE DEPTH = 5.0'

- LEGEND**
- FULL DEPTH
  - BRIDGE
  - RESURFACING, WEDGE AND LEVEL
  - PAVEMENT REMOVAL
  - LOD - LIMIT OF DISTURBANCE
  - POTENTIAL SWM AREA
  - WUS - WATERS OF THE US
  - WALL



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**WBCM**  
 ARCHITECTURE ENGINEERING CONSTRUCTION

REPLACEMENT OF CECIL COUNTY  
 BRIDGE CE0042,  
 MECHANICS VALLEY ROAD  
 OVER CSX  
 ALIGNMENT OPTION 2 - 40 MPH