

CURVE #1
 $\Delta = 8^{\circ}-35'-21.1''$ RT.
 $Dc = 1^{\circ}-54'-35.5''$
 $R = 3,000.00'$
 $T = 225.29'$
 $L = 449.73'$
 $E = 8.45'$
 $SE = 2.4\%$

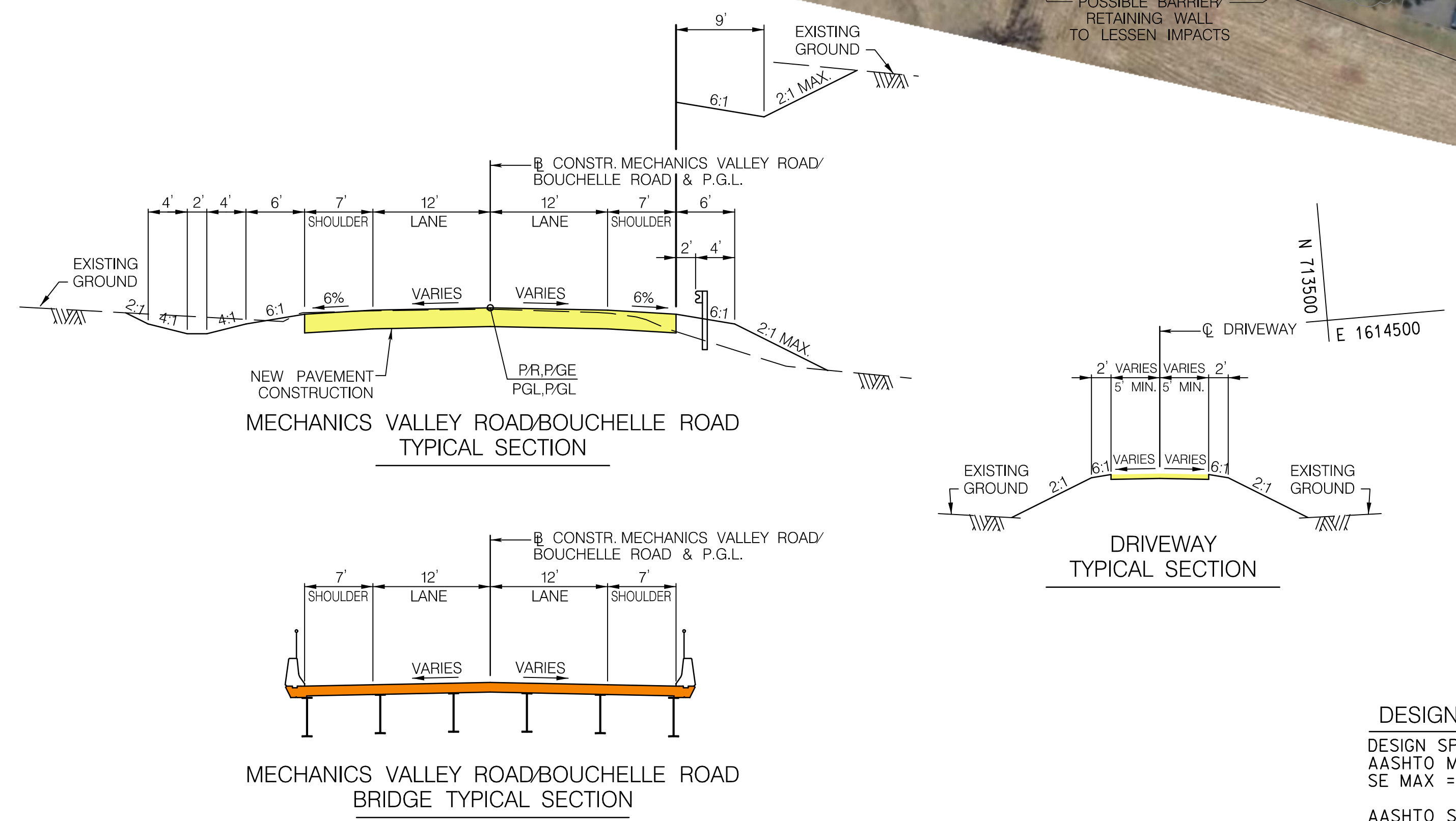
CURVE #2
 $\Delta = 30^{\circ}-45'-58.5''$ LT.
 $Dc = 8^{\circ}-11'-06.4''$
 $R = 700.00'$
 $T = 192.59'$
 $L = 375.88'$
 $E = 26.01'$
 $SE = 5.6\%$

CURVE #3
 $\Delta = 5^{\circ}-17'-03.7''$ LT.
 $Dc = 1^{\circ}-54'-35.5''$
 $R = 3,000.00'$
 $T = 138.44'$
 $L = 276.69'$
 $E = 3.19'$
 $SE = 2.4\%$

CURVE #4
 $\Delta = 1^{\circ}-53'-31.7''$ LT.
 $Dc = 0^{\circ}-16'-57.3''$
 $R = 20,275.00'$
 $T = 334.81'$
 $L = 669.56'$
 $E = 2.76'$
 $SE = NC$

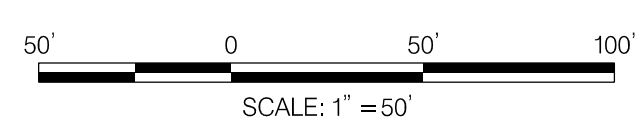
CURVE #5
 $\Delta = 43^{\circ}-31'-59.0''$ LT.
 $Dc = 10^{\circ}-54'-48.5''$
 $R = 525.00'$
 $T = 209.63'$
 $L = 398.89'$
 $E = 40.30'$
 $SE = 6.0\%$

CURVE #6
 $\Delta = 0^{\circ}-52'-16.6''$ RT
 $Dc = 0^{\circ}-34'-22.6''$
 $R = 10,000.00'$
 $T = 76.03'$
 $L = 152.07'$
 $E = 0.29'$
 $SE = NC$



DESIGN PARAMETERS
 DESIGN SPEED = 40 MPH
 AASHTO MIN. RADIUS = 485'
 SE MAX = 6%
 AASHTO STOPPING SIGHT DISTANCE = 305'
 DESIGN STOPPING SIGHT DISTANCE = 308'
 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 = 351'
 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



**REPLACEMENT OF CECIL COUNTY
 BRIDGE CE0042,
 MECHANICS VALLEY ROAD
 OVER CSX
 ALIGNMENT OPTION 1 - 40 MPH**

