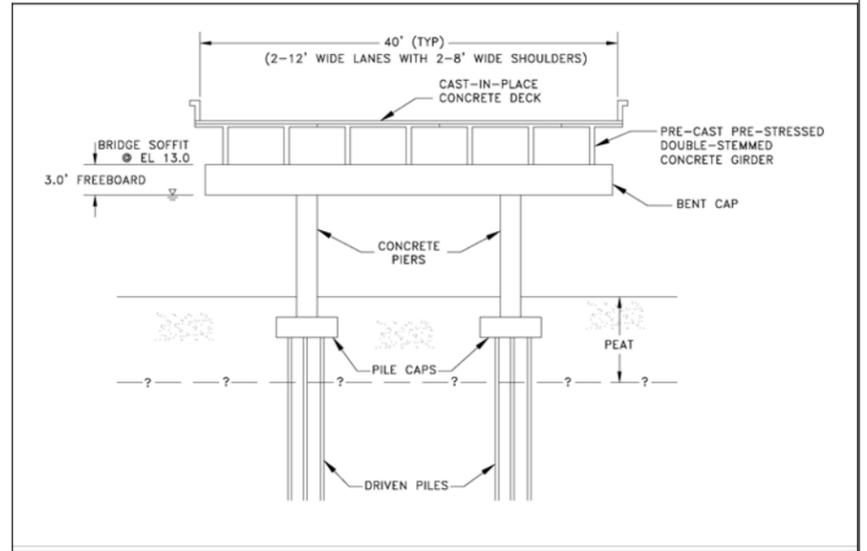
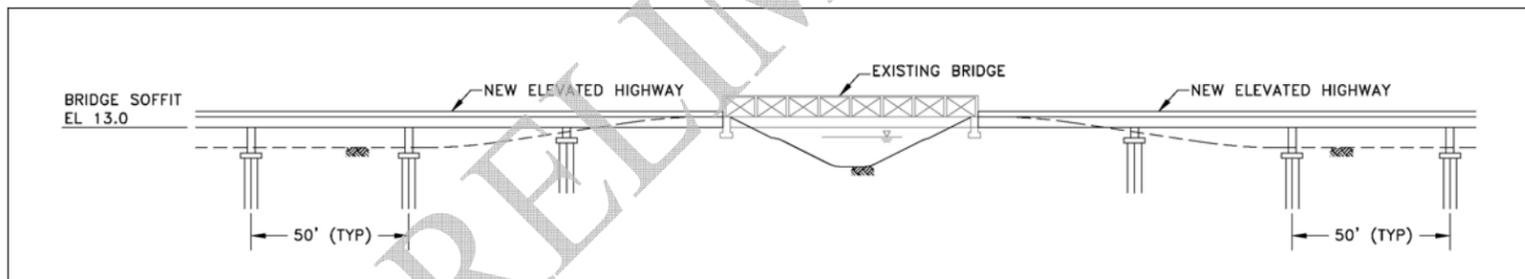


PLAN



TYPICAL SECTION



TYPICAL ELEVATION

PROJECT FEATURES

Project proposes to raise SR 4, SR 12 and SR 160 and place them on piers. A typical elevated structure for all three highways will have the following parameters:

- Precast prestressed double-stemmed concrete girder supported by concrete piers
- Two columns at each pier
- Spacing between piers is 50'
- Width of roadway is 40'
- Pile foundation
- 3' freeboard over 100-year FEMA flood elevation
- Meet Caltrans Seismic Design Criteria for bridge design

OBJECTIVES & BENEFITS

- Reduce the risk of potential loss of SR 4, SR 12 and SR 160 due to flooding and earthquake
- Provide for the uninterrupted operation of these transportation corridors for emergency response and freight movement
- Benefits = Avoided Economic Costs Due to Loss of Highways = up to \$1.8 billion (30 flooded island case)

PROJECT COSTS

SR 4: Length = 18.4 miles
 Capital Cost = \$1.7 billion
 SR 12: Length = 15.0 miles
 Capital Cost = \$1.3 billion
 SR 160: Length = 33.3 miles
 Capital Cost = \$3.1 billion

Total Capital Cost = \$6.1 billion

Note: Project costs may be truncated (reduced) when joined with other building blocks in scenarios.



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Delta Risk Management Strategy (DRMS)
 Phase 2

BUILDING BLOCK 2.1: RAISE STATE HIGHWAYS