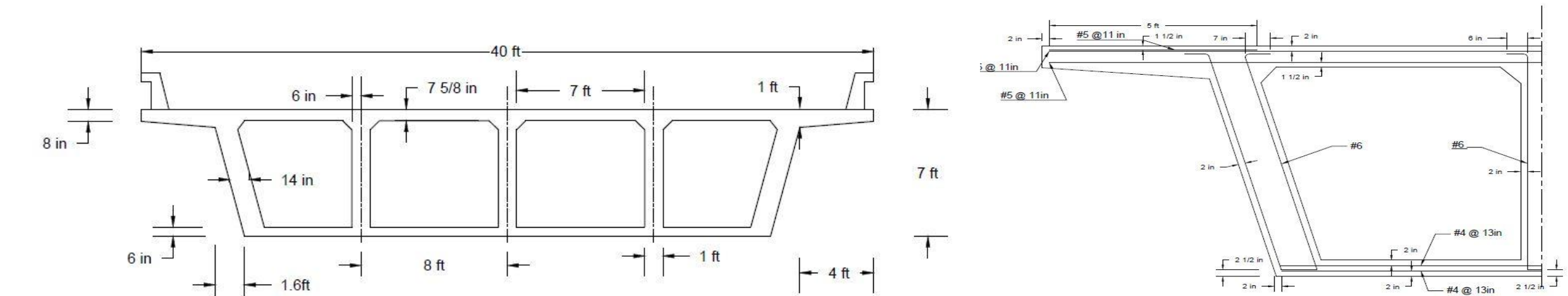
The logo for Lyles College of Engineering features the word "Lyles" in a large, bold, black sans-serif font. Below it, "College of Engineering" is written in a smaller, bold, black sans-serif font. A thick, red, curved swoosh arches over the text. Underneath "College of Engineering", the text "California State University, Fresno" is written in a smaller, italicized, black sans-serif font, separated from the line above by a thin horizontal line.

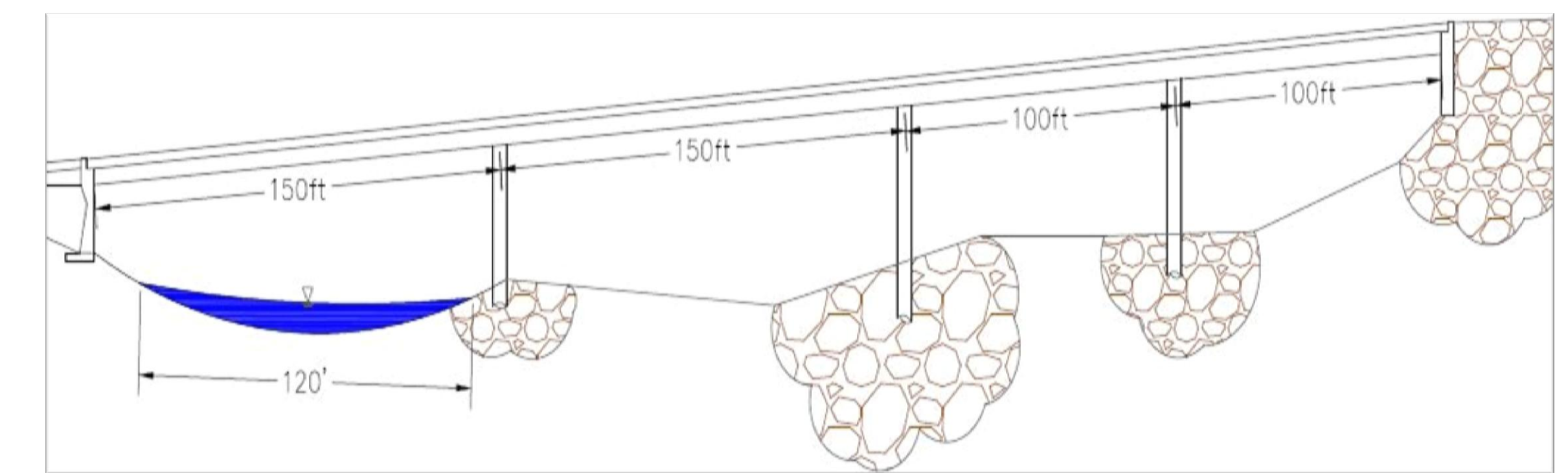
Structural Design Bridge and Box Girder

The map displays the proposed route for the project, starting from Merced and heading east towards Mariposa and El Portal. Key locations marked include Merced, Planada, Mariposa, El Portal, and Yosemite National Park. The route is highlighted in blue, and the existing route is shown in yellow. The map also includes labels for various landmarks and roads, such as the Merced River, Yosemite National Park, and roads 132, 41, 49, 140, and 148. The project site is located near the intersection of roads 41 and 140, just west of El Portal.

Structural Design Bridge and Box Girder



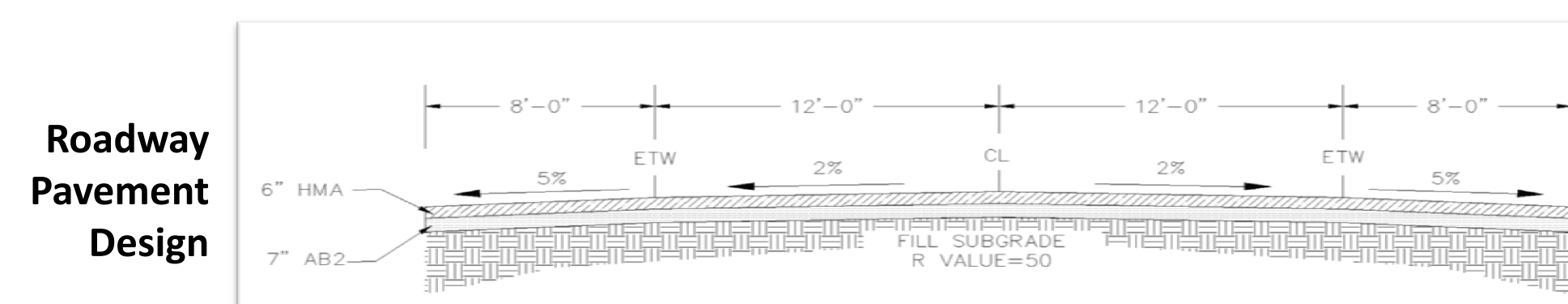
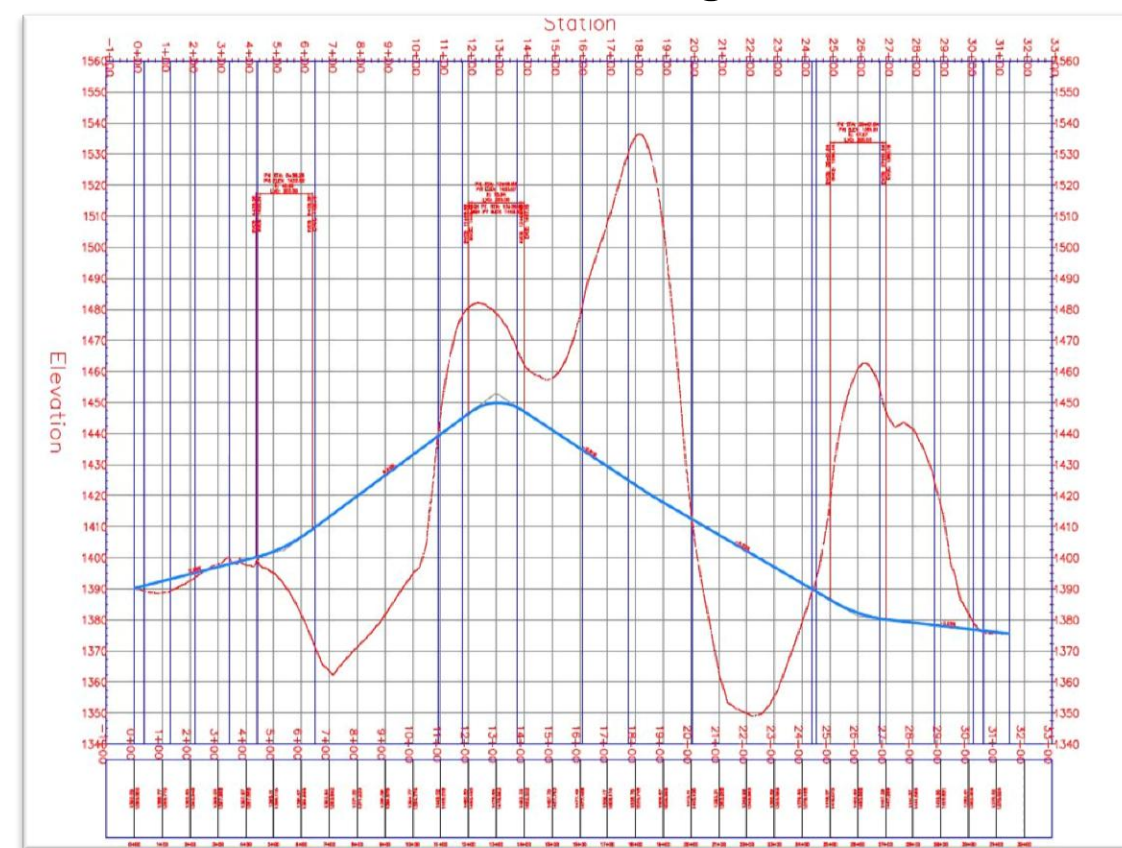
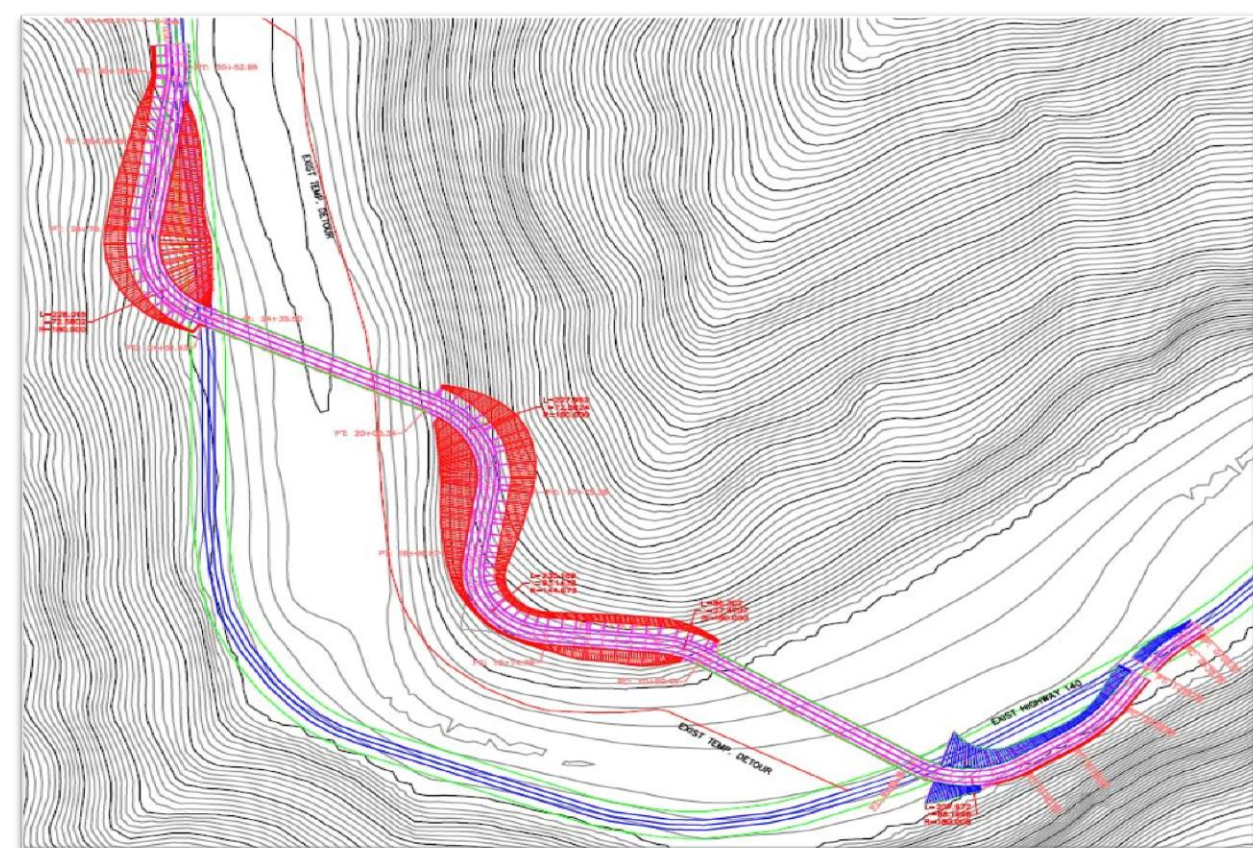
Box Girder Reinforcement



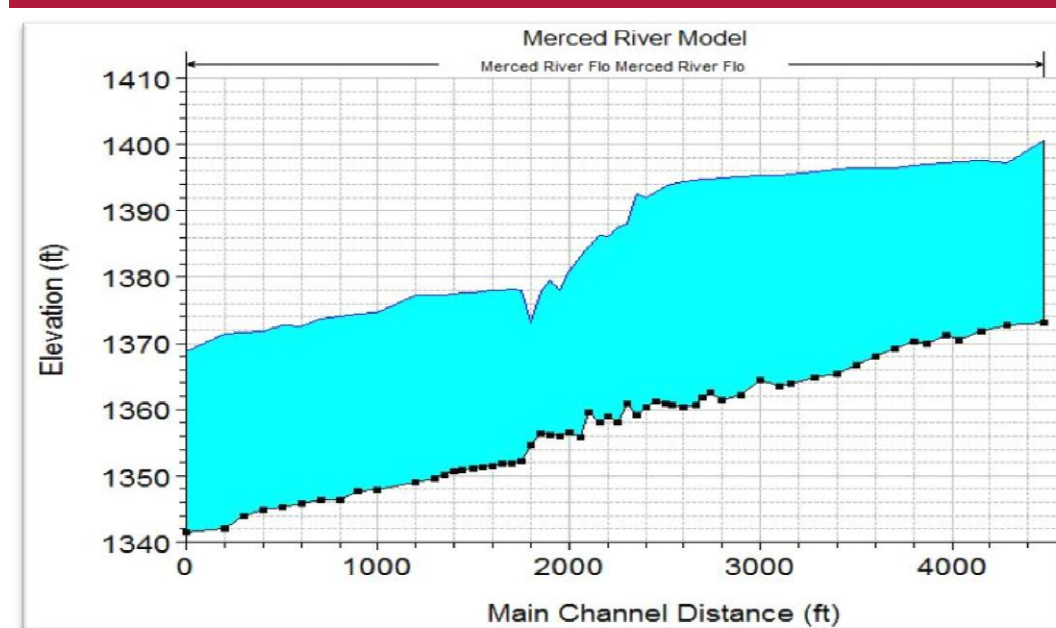
Upstream Bridge Profile

Overall Site Plan

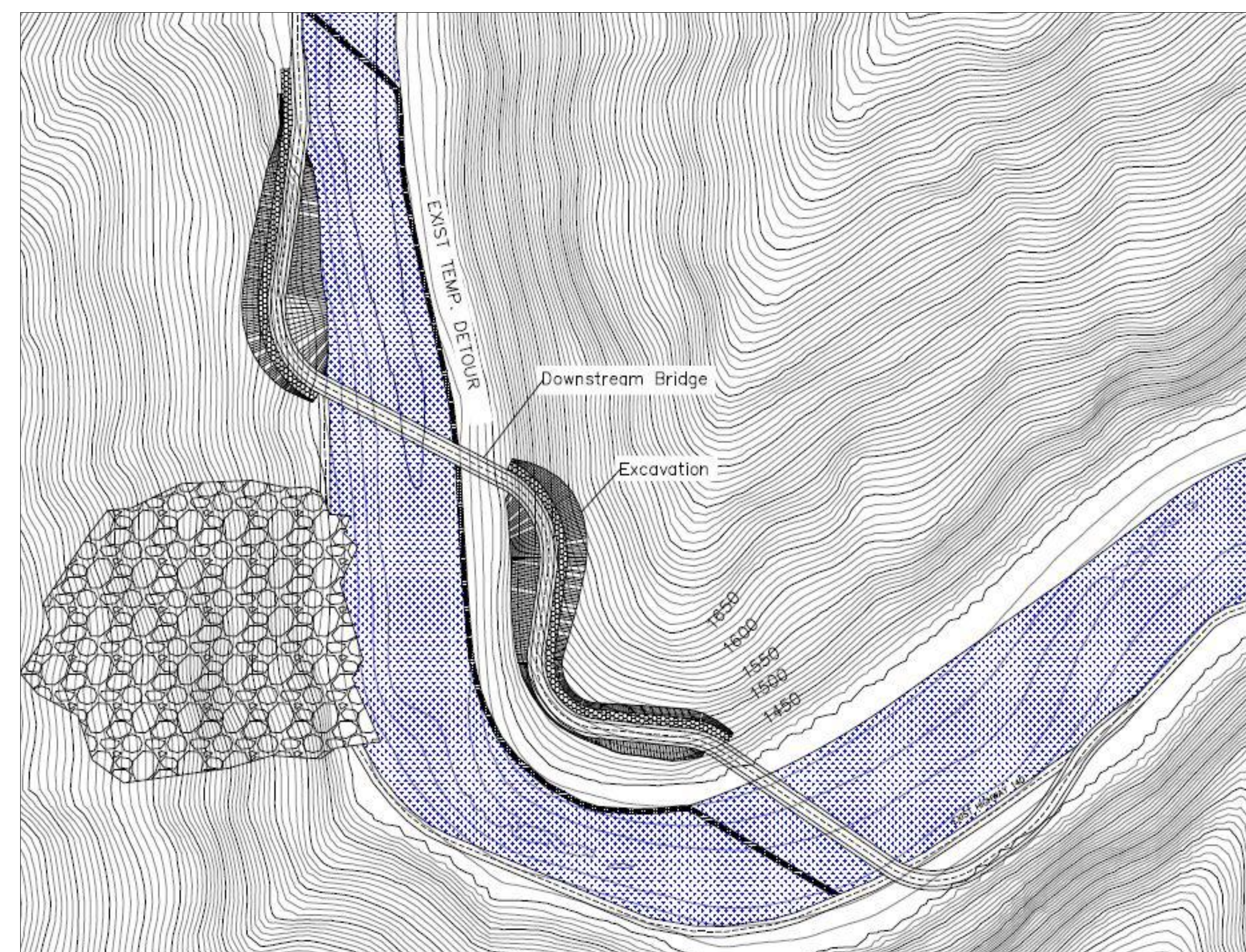
SR 140 Vertical Alignment



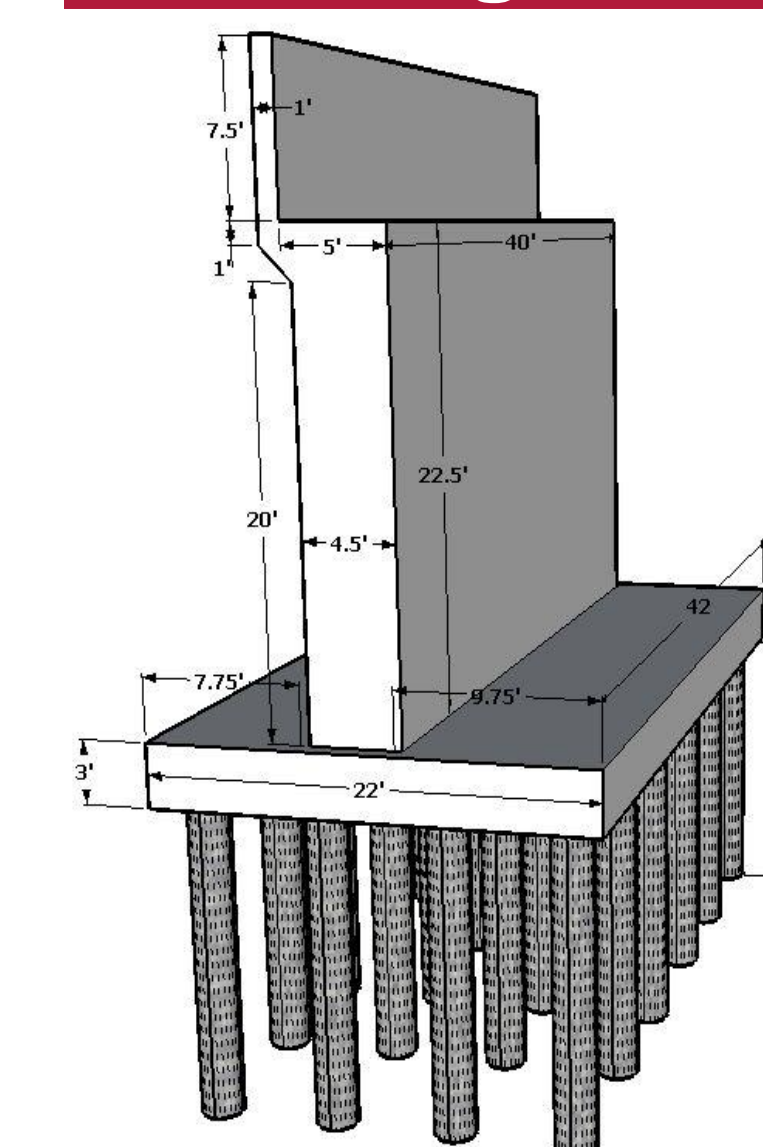
HEC RAS Modeling and Storm Drainage



Inlet Location for Roadway

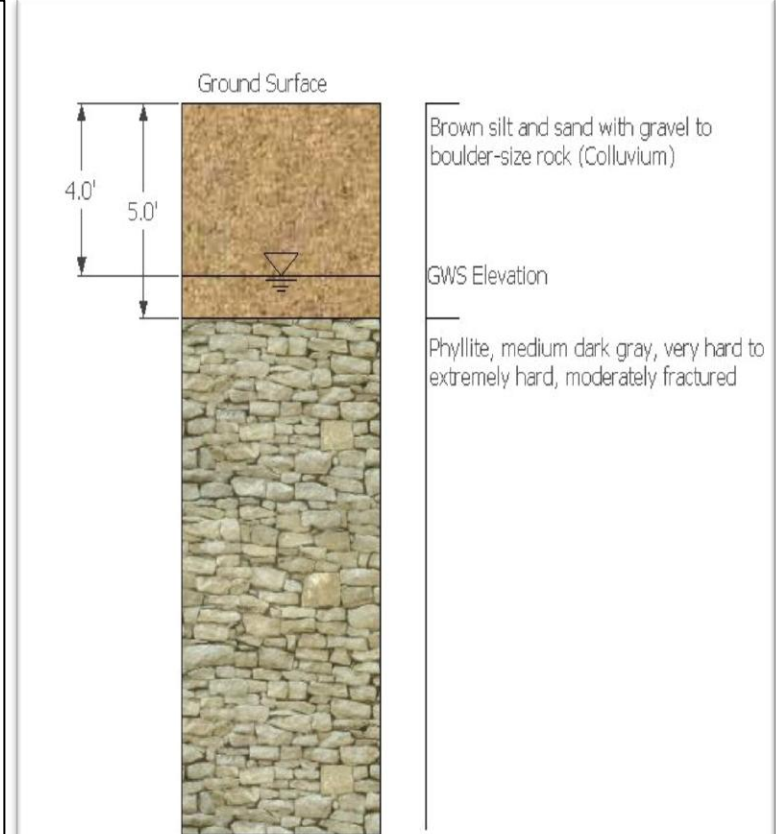


Topographic Site Plan



Bridge Abutment

Insert AutoCAD sketch of
Abutment Reinforcement



Soil Characteristics

Sponsors/Conclusion



John Rowland, PE, TE



Cordie Qualle, P.E. MCE



Justin Kempton, P.E.



Jonathan Jensen, E.I.T &
Mark Weaver P.E.

Insert picture of OMPI Sump design
Or a picture of the drop inlets located within the swale
channels