

Bridge Memorandum

Job No.: XXXXXXXX
County : XXXXX

Bridge No.: XXXXX
Rte.: XXXXX (minor) over XXXXXX (major)

Final Layout: (92 ft. – 92 ft.) Prestressed Concrete I-Girder Spans (Type VI)

Roadway Width: 30 ft. - 0 in. (Symmetrical) plus 16 in. Safety Barrier Curbs

Loading: HL-93

Alignment: Tangent

Skew: Square (skew of 27 SEC ignored)

Profile Grade: Rte. XX

Grade per Bridge Survey Elevation Profiles:

Lt. (NBL) Max surveyed elevation under structure = 968.87 @ CL First Street

Rt. (SBL) Max surveyed elevation under structure = 968.84 @ CL First Street

Profile Grade: First Street= VPI Sta. 4+60.00 (Elev. 996.84) -4.72 % Ahead, +2.39 % Back, L=510.00'

Tie Station: CL Rte. XX Sta. 513+00.09 (CL Med) = CL First Street Sta. 4+50.00

Begin Station: Fill Face Bent No. 1 @ Sta. 3+57.08±

Fill Exception: Sta. 3+57.00± to Sta. 5+43.00±

Traffic Handling: First Street closed for construction. See traffic control plan for Rte. XX traffic handling.

General Notes:

Structure built in conjunction with AXXXX and AXXXX MSE Walls at End Bents 1 and 3 respectively.

Profile grade and stationing for First Street is at CL First Street.

Stationing for Rte. XX is at CL Med Rte. XX.

Profile grade for Rte. XX is 30' left and right of CL Median Rte. XX.

Provide minimum vertical clearance of 16'-6" over Rte. XX.

Provide modified bridge approach slabs. (Roadway Item)

Use Integral end bents with 14'-0" wing length from fill face to end of wing at End Bents 1 and 3.

Flare Bent 3 wings, LT and RT Wing = 8 DEG 0 MIN 0 SEC

Use integral pile cap abutments at End Bents 1 and 3.

Use 2.5:1 end fill slopes. See profile sheet (Roadway Item).

Use 4" concrete slope protection between end bents and walls. (Roadway Item)

Use open round column bent at Bent 2. (Prefer 3' Ø, maximum 4' Ø)

Minimum horizontal clearance = 22'-0" @ median, 20'-0" to face of walls from edge of shoulders.

Seismic Performance Category A

Relocate all utilities as required for construction. (Roadway Item)

Provide right of way as required for construction. (Roadway Item)

For slopes adjacent to MSE wall, see AXXXX and AXXXX Bridge Memos.

No utilities, lighting, sidewalks, or conduit are to be included in the final plans for this bridge.

Construction clearances: Vertical = 15'-6"

Horizontal = Provide 24' opening in each direction of Rt. XX during construction

No slab drains required.

Estimated design year traffic (2033), ADT = 1660, with 9 % ADT Trucks.

Estimated construction year traffic (2014), ADT=1550, with 9 % ADT Trucks.

Special Notes:

District Contact: XXXXXXXX, TPM (XXX) XXX-XXXX

Bridge Division Contact: XXXXXXXX, SPM (XXX) XXX-XXXXX

Estimated working days: 40

FY'14 Estimated Construction Cost*: \$445,000

* Does not include STIP inflation from Planning (3% compounded annually)

Programmed Bridge STIP amount from FY'14: \$702,000

Bridge _____ Date _____

Bridge _____ Date _____

District _____ Date _____

District _____ Date _____