

Bridge Memorandum

Job No.: XXXXXXXX

Bridge No.: AXXXXX

County: XXXXXXX

Rte.: X (Minor) over XXXXXXXXXXXXX

Final Layout: U.I.P. Redeck Existing & Make Composite (33')(33')(33') Simple Non-Composite Wide Flange Beam Spans
Roadway Width: 22'-0"
Alignment: Tangent
Skew: 10° RA
Grade: Match existing ±
Loading: H15-44 (1957), HS20-44 (new construction only)
Beg. Station: 223+89.30 ± (match existing) at Fill Face End Bent No. 1.
Traffic Handling: Structure to be closed to traffic during construction.
Traffic Information: AADT (2013) = 168, ADTT = 19% = 32 | AADT (2033) = 244, ADTT = 19% = 46
Existing Bridge: Redeck AXXXX and use in place.
Condition Rating: Deck = 5, Superstructure = 5, Substructure = 6
Posting Information: Will not cause a change in load posting, see load rating file.

GENERAL NOTES:

Remove existing (non-composite) bridge deck, including curbs, rails and end posts.
 bridge deck shall include removal of tops of wings at end bents to accommodate new slab.
 Install 6½" CIP slab (without precast panels) with 3/16" per foot cross-slope.
 Increase haunch over girders by 1½"± to help match existing grade.
 Provide continuous slab with a saw cut joint at intermediate bents.
 Stay-in-place forms for the slab are allowed.
 Allow vibratory screed.
 Install 16" safety barrier curbs.
 Install slab drains as required.
 Install shear connectors to make composite.
 May need taller studs or hairpin bars to accommodate larger girder haunch.
 Install sliding slab on top of existing backwall at End Bents No. 1 & 4.
 Clean and overcoat existing structural steel and bearings with calcium sulfonate. Pending pull off test results.
 Estimate 20 sq. ft. substructure repair (unformed), 5 sq. ft. at each bent.
 Estimate 10 sq. ft. substructure repair (formed), 5 sq. ft. at Bents No. 1 & 2.
 Apply protective coating (urethane) to all bents beam caps.

SPECIAL NOTES:

Provide bridge anchor attachment for guardrails (Roadway Item).
 Add rip rap for slope protection underneath bridge, may use existing broken up deck (Roadway Item).
 Specify in the bridge JSP that bottoms of top flanges will be coated with an epoxy primer.

District contact is XXXXX XXXXXX, TPM (XXX) XXX-XXXX.

Bridge contact is XXXXX XXXXXX, SPM (XXX) XXX-XXXX.

Estimated **30** Working Days/**45** Calendar Days (min.)
 FY16 Estimated Construction Cost*: **#REF!**
 * Does not include inflation from Planning (3% compounded annually)
 Programmed Bridge STIP Amount: **\$234,000**

Bridge: _____ Date: _____
 Bridge: _____ Date: _____
 District: _____ Date: _____
 District: _____ Date: _____