

**DETAILS OF CONCRETE REMOVAL AT END BENTS**

The cost of concrete removal as shown will be considered completely covered by the contract unit price for Removal of Existing Bridge Decks. Vertical backwall and wingwall reinforcement to be cut off one inch below concrete removal surface and the resulting holes shall be filled with a qualified special mortar.

A smooth, level surface shall be provided at Bent No. -- removal lines.

**General Notes:**

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of girders, stringers or floorbeams flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the flanges of the girders, stringers or floorbeams will not be permitted. All steel fabrication and construction shall be in accordance with Sec's 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay in place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for girder loading.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the girders beams stringers. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cu. yd./ hr.

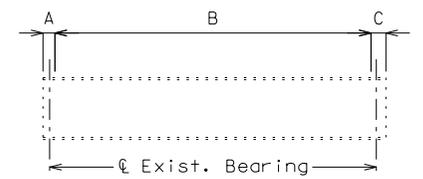
Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

The contractor shall provide a method of preventing the direct contact of the stay-in-place forms and connection components with uncoated weathering steel members that is approved by the engineer.

**Deflection and Haunching:**  
The contractor shall determine dead load deflections and haunching based on field measurements and/or existing bridge plans and may be adjusted based on the difference between the new and existing dead load weights.

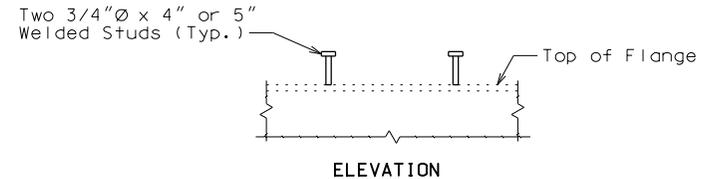
Slab is to be considered at a uniform depth as shown on the plans. Haunching will vary.

In order to properly form the haunches for the new deck, the contractor shall shoot deck elevations along each girder line prior to deck removal followed by shooting elevations of the tops of the girders after deck removal.

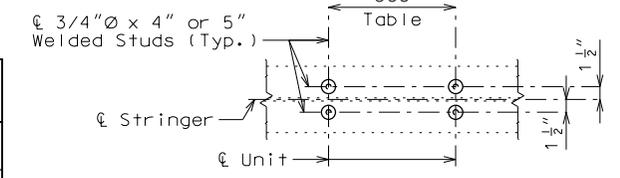


**ELEVATION SHOWING SHEAR CONNECTOR SPACING**

TABLE SHOWING SHEAR CONNECTOR UNIT SPACING				
Span	S.C. per unit	A	B	C
1	2	X"±	XX Units @ 8" cts.	X"±
2	2	X"±	XX Units @ 8" cts.	X"±
3	2	X"±	XX Units @ 8" cts.	X"±
Total shear connectors required				XXXX



**ELEVATION**

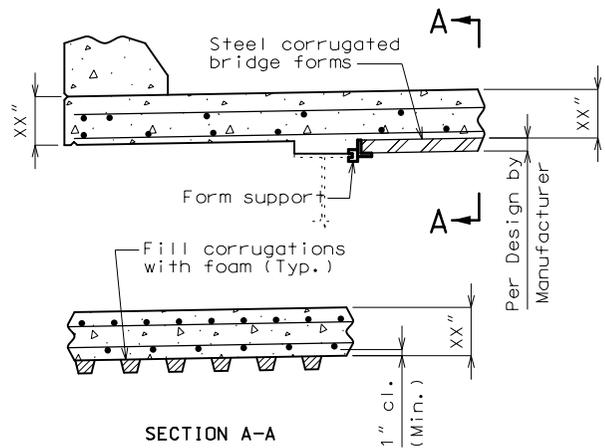


**PLAN OF SHEAR CONN. (2 PER UNIT)**

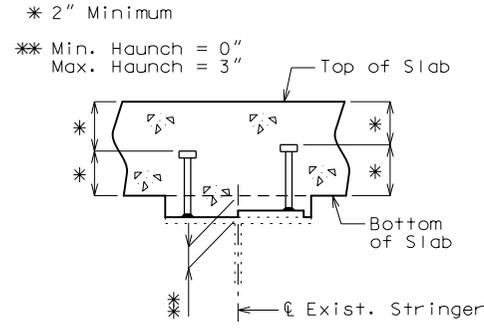
**DETAILS OF SHEAR CONNECTORS**

The cost of supplying and installing shear connectors will be considered completely covered by the contract unit price for Shear Connectors.

Shear connectors shall be in accordance with Sec 712, 1037 & 1080.



**SECTION A-A  
OPTIONAL STAY-IN-PLACE FORM DETAILS**

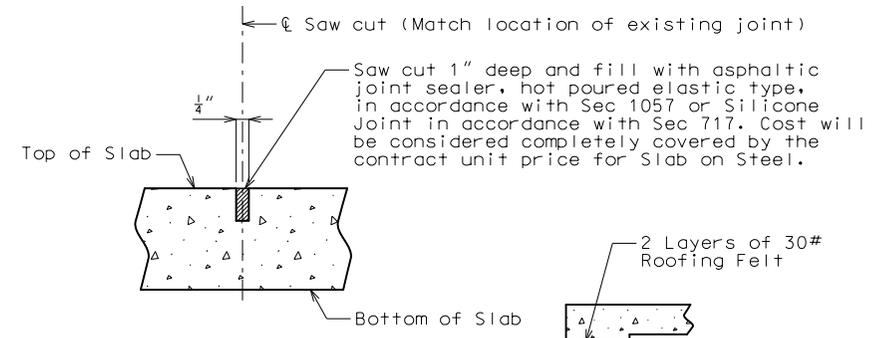


**HALF SECTION THRU STRINGER  
HALF SECTION THRU COVER**

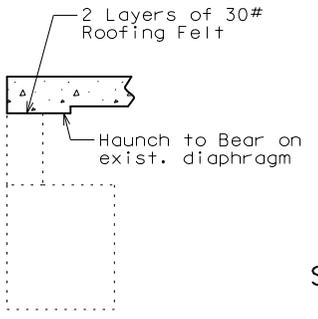
**SECTION THRU EXIST. STRINGER SHOWING SHEAR CONNECTORS**



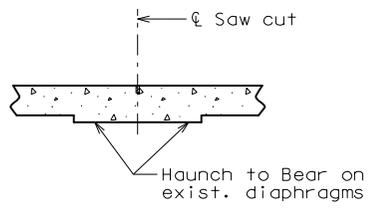
**TYPICAL SECTION THRU END BENTS 1 & 4 SHOWING PROTECTIVE COATING**



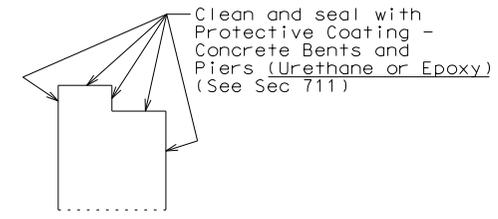
**TYPICAL SECTION THRU SAW CUT AT INTERMEDIATE BENTS**



**PART SECTION THRU SLAB AT END BENTS**



**PART SECTION THRU SLAB AT INT. BENTS**



**TYPICAL SECTION THRU INT. BENTS 2 & 3 SHOWING PROTECTIVE COATING**

Standard Drawing Guidance (do not show on plans):  
Some notes on the standard redecking template drawings are not shown in EPG 751.50 Standard Detailing Notes.  
Remove details that do not apply.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 11/14/2016	
ROUTE *	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY *	
JOB NO. *	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. *	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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