

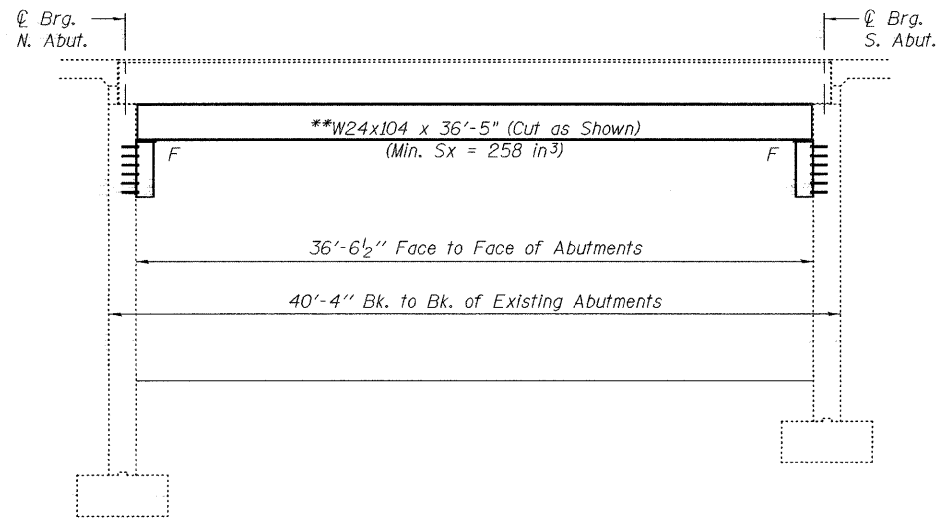
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 18 20 SHEETS
F.A.P. 322	12-1, BR	UNION	36	34	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

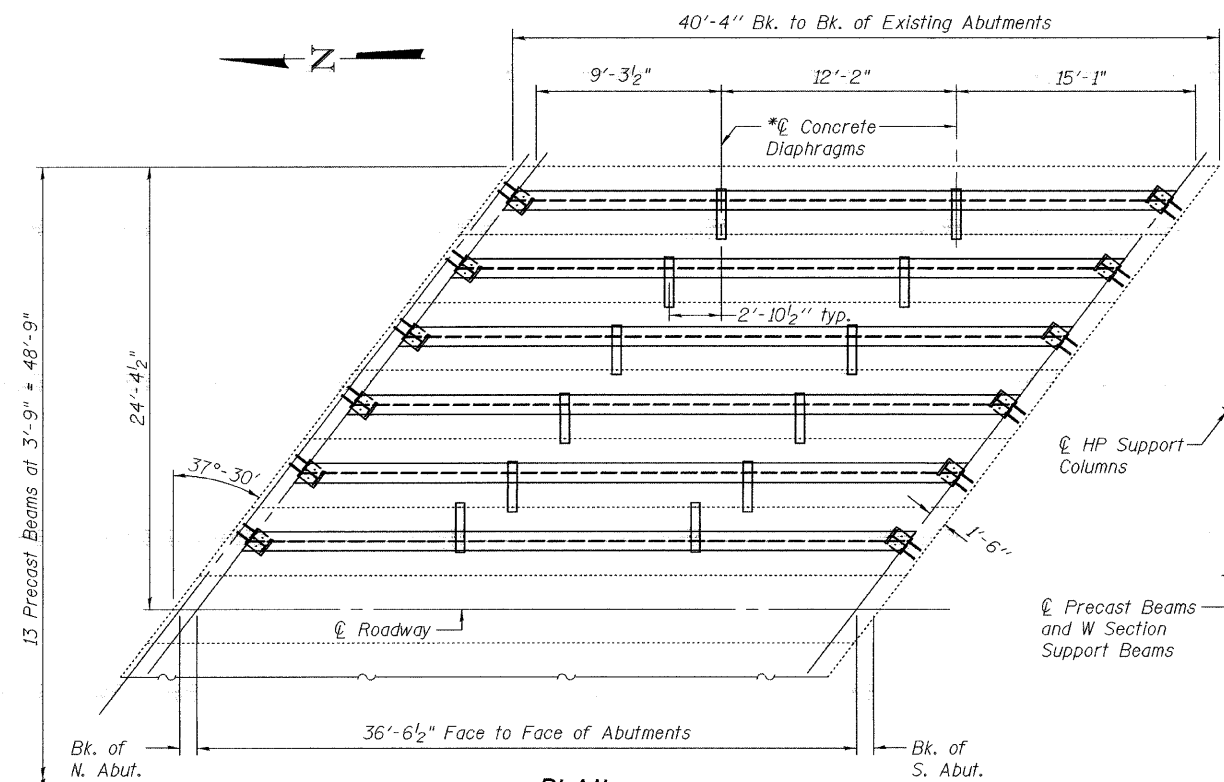
Contract #98886

\*\*Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 27". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans

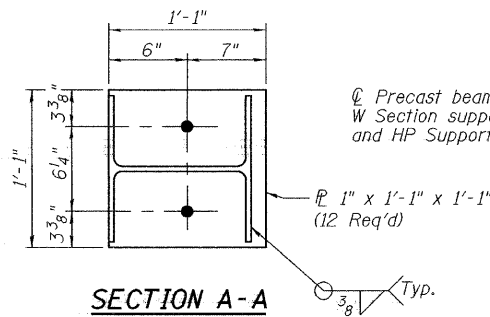
\*Transverse tie I's (2 per span). Place additional shims at these points on top of tie I's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.



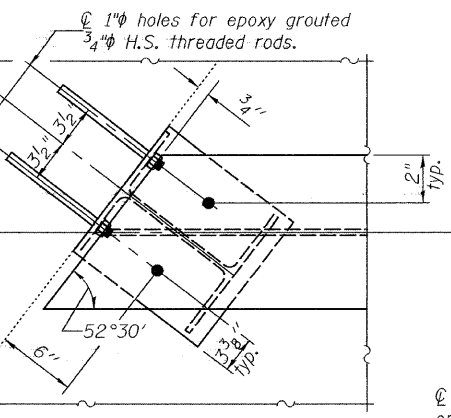
ELEVATION



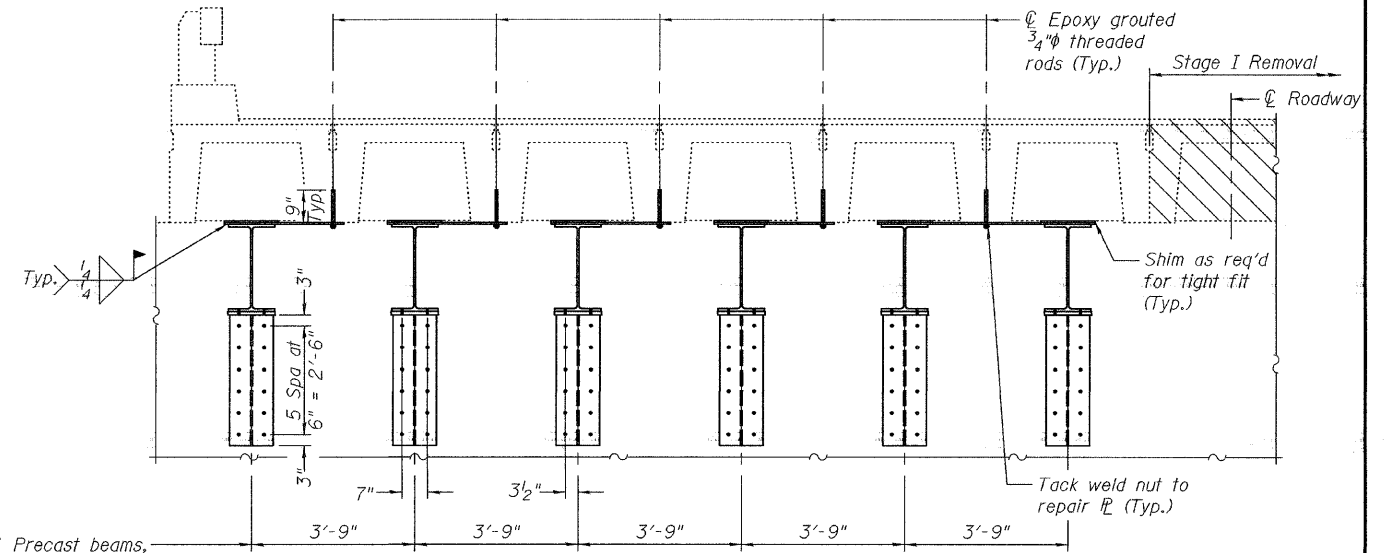
PLAN



SECTION A-A



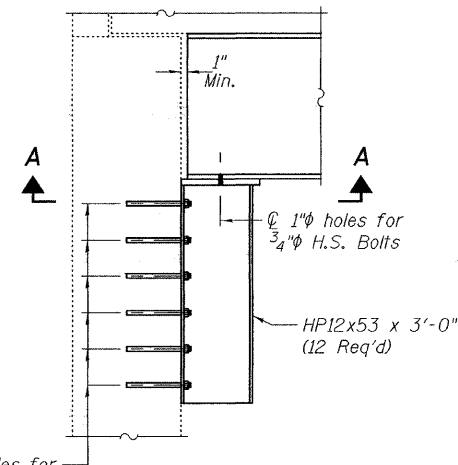
TYPICAL SUPPORT BEAM END PLAN



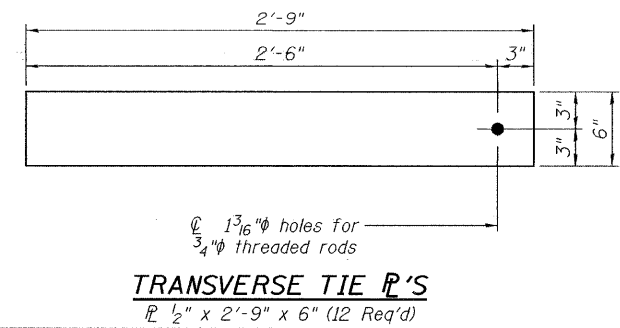
TYPICAL DECK CROSS SECTION  
(Looking South)

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.  
The contractor is advised that the existing Nelson Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.  
See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".  
If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.  
The Contractor has the option of using used steel. See Special Provisions.  
The Contractor shall remove the temporary support during Staged Removal of the Superstructure. The Contractor shall burn off the threaded rods flush and cover with epoxy. Cost included with Removal of Existing Superstructures.



TYPICAL SECTION AT ABUTMENT



TRANSVERSE TIE I'S  
I 1/2" x 2'-9" x 6" (12 Req'd)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	25,750

TEMPORARY SUPPORT FOR NELSON BEAMS  
F.A.P. ROUTE 322 - SECTION 12-1, BR  
UNION CO.  
STATION 801+60.00  
STRUCTURE NO. 091-0022

DESIGNED Patrick M. Petrone  
CHECKED Jay D. Edwards  
DRAWN BECKY M. LEACH  
CHECKED PMP/JDE

July 22, 2008  
EXAMINED Thomas J. Damagalki  
PASSED Ralph E. Anderson  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES