STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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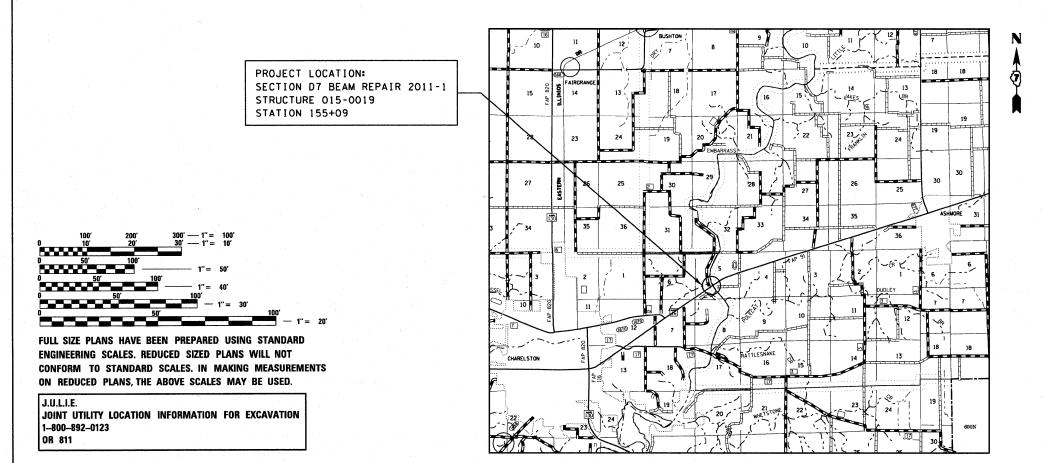
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PROPOSED HIGHWAY PLANS

FAP ROUTE 91 (IL 16) SECTION D7 BEAM REPAIR 2011-1

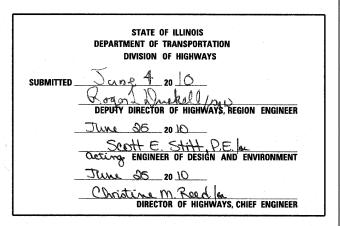
BEAM BRACING COLES COUNTY

C-97-150-10



D-97-082-10





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 74499

PROJECT ENGINEER: MARK DAUGHERTY PROJECT MANAGER: BRIAN J. BIERMAN

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO THE CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES AND INDEX OF SHEETS
3	SUMMARY OF QUANTITIES
4 - 5	BRIDGE PLANS
	STANDARDS ARE A PART OF THESE PLANS AND ARE R SHEET NO. 5:
STD. NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701901-01	TRAFFIC CONTROL DEVICES

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			CENE	DAI NOTE	C 2.		F.A.P.	SECTION	COUNTY	TOTAL
\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	GENERAL NOTES & INDEX OF SHEETS			91	D7 Reom Repoir 2011-1	Coles	SHEET:		
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	SUMMARY OF QUANTITIES		TOTAL	CONST	NDF.	
CODE NO	ITEM	UNIT	QUANTITIES	SFTY-2A 100% STATE		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	8950	8950		
67100100	MOBILIZATION	L SUM	- 1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
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STATE	: OF	: ILLINOIS	
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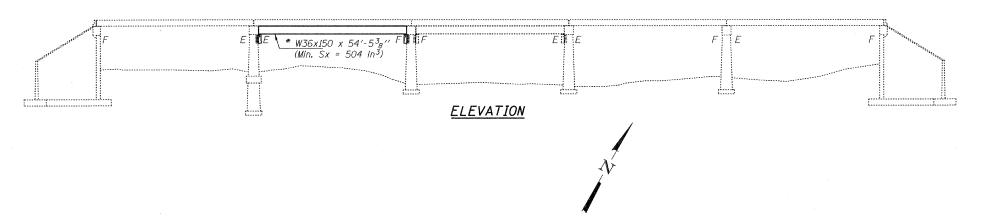
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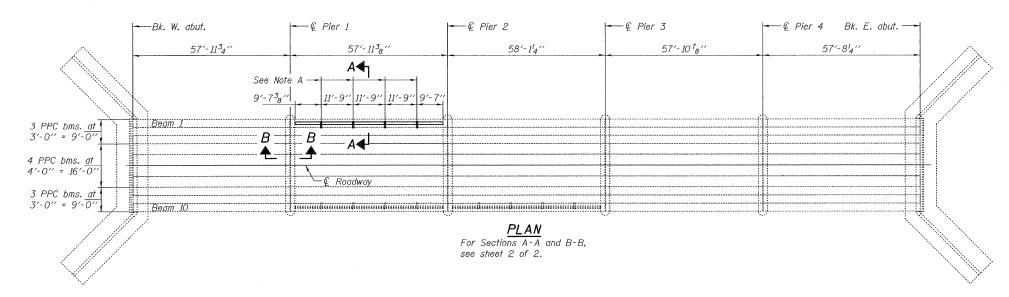
	SU	MMAR	Y OF QU	IANTITIES			
HEET	NO.	OF	SHEETS	STA.	TO	STA.	

.P. E.		S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
1	D7	Beam	Repair	2011-1	Coles	5	3		
					CONTRACT	NO.	74499		
ILLINOIS FED. AID PROJECT									

* 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 = 36". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans.

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Note A:

€ Transverse tie plates. Place additional shims at midpoints between tie plates.
Securely weld shims to top flange of support beam. Min. shim size is 6" x flange width.



Expires Nov. 30, 2010

GENERAL 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.

See Section 584 of the Standard Specifications for Epoxy Grouting of threaded rods: minimum embedment = 9".

The cost of epoxy grouting threaded rods shall be included with Furnishing and Erecting Structural Steel.

The Contractor has the option of using used steel. See special provisions. The contractor is advised that the existing PPC Deck 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.

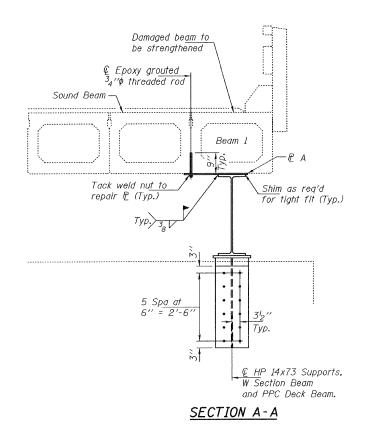
If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying 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.

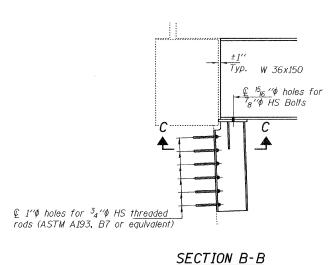
TOTAL BILL OF MATERIAL

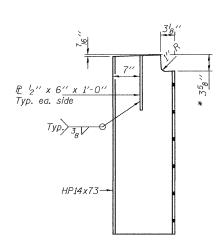
ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	8950

COUNTY TOTAL SHEET NO.

COLES 5 4 DESIGNED Vich 1. Valit EXAMINED JUNE 14. 2010 SECTION PLAN AND ELEVATION CHECKED 1 STATE OF ILLINOIS D7 BEAM REPAIR 2011-1 91 SN 015-0019 DRAWN *baliva* **DEPARTMENT OF TRANSPORTATION** PASSED CONTRACT NO. 74499 SHEET 1 OF 2 SHEETS CHECKED 11HV

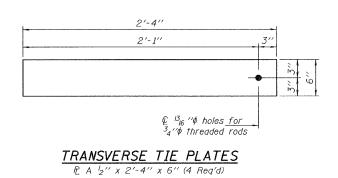


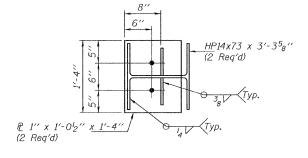




NOTCH AND STIFFENER DETAIL

* This dimension can be reduced if existing field conditions allow it.





SECTION C-C

	DESIGNED VHV	EXAMINED	A Carl Promer	DATE	-	JUNE 14, 2010
	CHECKED DAB		ENGINEER OF STRUCTURAL SERVICES			
	DRAWN baliva	PASSED	Ralph E. anderson			
L	CHECKED VHV DAB		ENGINEER OF BRIDGES AND STRUCTURES			

STATE	: OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

REPAIR DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
SN 015-0019	91	D7 BEAM REPAIR 2011-1	COLES	5	5
318 013-0013			CONTRACT	NO.	7449
SHEET 2 OF 2 SHEETS		ILLINOIS FED. AI	D PROJECT		