STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

. .

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 823 (IL15)
SECTION D7-BEAM REPAIR 2011-2

BEAM REPAIR WAYNE COUNTY

ADT = 2400 (2007)

9

0



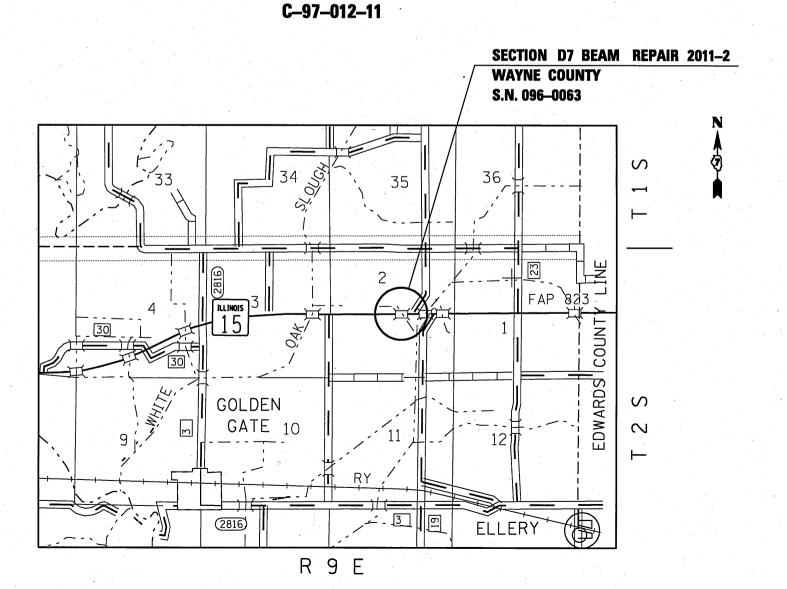
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: TOM RONAN PROJECT MANAGER: TOM RONAN

CONTRACT NO. 74502

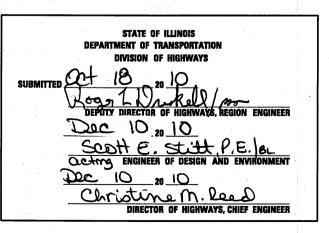


RTE. SECTION COUNTY TOTAL SHEET NO.

823 D7-BEAM REPAIR 2011-2 WAYNE UNIVERSELY NO. 74502

D-97-002-11





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.

ITEM

COVER SHEET

2 SUMMARY OF QUANTITIES, INDEX OF SHEETS, AND GENERAL NOTES
3 GENERAL PLAN & ELAVATION VIEW

4 PPC DECK BEAM SUPPORT DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 4:

STD. NO.

DESCRIPTION

000001-06 "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"
701201-04 "LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH"
701901-01 TRAFFIC CONTROL DEVICES

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS: THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN SECTION D7-BEAM REPAIR 2011-2 IS LOCATED AT STRUCTURE NUMBER 096-0063 OVER WHITE OAK SLOUGH OVERFLOW LOCATED 1.5 MILES WEST OF THE EDWARDS COUNTY LINE ON ILLINOIS ROUTE 15 IN WAYNE COUNTY. THE WORK INCLUDED IN THIS PROJECT CONSISTS OF BRACING SEVEN (7) DECK BEAMS TO MAINTAIN/IMPROVE THE LOAD CAPACITY.

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 CONTRACTORS RESPONSIBILITY 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.

100.1. STATE

	TOTAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	QUANTITIES	0014
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	25250	25250
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	
c:\pw_work\pwidot\swertzrw\d0235550\d77	502-sht-index.dgn	DRAWN -	REVISED -	
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -	
<u> </u>	PLOT DATE = 9/2/2010	DATE -	REVISED -	

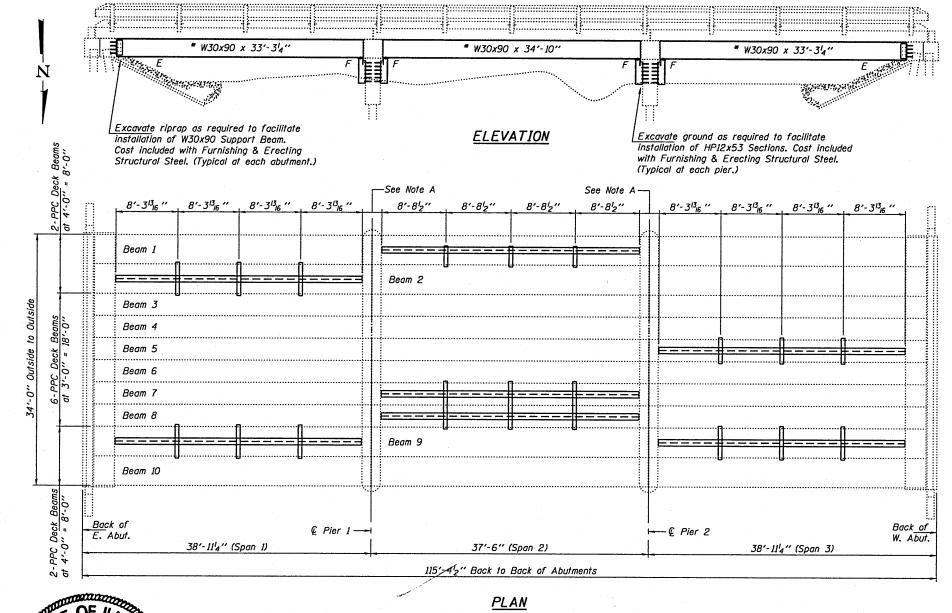
INDEX (OF SHEETS, GEN	IERAL NOTES	
AND	SUMMARY OF	QUANTITIY	
SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.

SCALE: NA

* 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 one specified in the plans. (Min. Sx = 245 in 3)

Note A:

additional shims at midpoints between tie R's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.





Expires: November 30, 2012

DESIGNED - VILL H-V-C 2
CHECKED - WWW Statten Kyle M. Steffen CHECKED - ADY 1740

NOVEMBER 15, 2010

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **GENERAL PLAN & ELEVATION** SN 096-0063 SHEET NO. 1 OF 2 SHEETS

COUNTY TOTAL SHEET NO. WAYNE 4 3 SECTION 823 D7 BEAM REPAIR 2011-2 CONTRACT NO. 74502 ILLINOIS FED. AID PROJECT

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

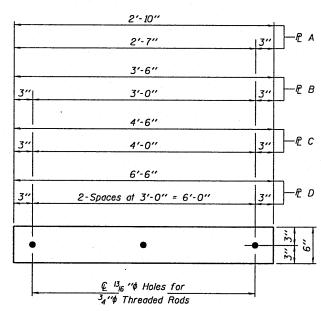
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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 at the unit price bid for the work.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors 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.



TRANSVERSE TIE P'S

P A 2" x 2'-10" x 6" (3 Reg'd) P B 2" x 3-6" x 6" (3 Req'd)
P C 2" x 4'-6" x 6" (9 Req'd) P. D 2" x 6'-6" x 6" (3 Req'd)

TOTAL BILL OF MATERIAL

		ITEM			UNIT	QUANTITY
Furnishing	and	Erecting	Structural	Steel	Pound	25,250
		1000				

