STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

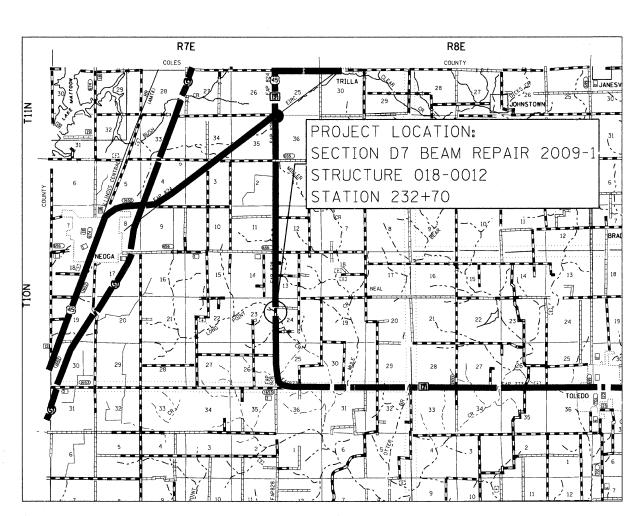
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 828 (IL 121) SECTION D7 BEAM REPAIR 2009-1

CUMBERLAND COUNTY

C-97-070-09



D-97-040-09

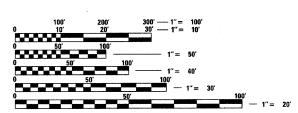


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

SUBMITTE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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

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JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

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

CONTRACT NO. 74384

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.

FILE N	NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
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		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
		PLOT DATE = \$DATE\$	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

GENERAL NOTES & INDEX OF SHEETS SHEET NO. OF SHEETS STA. TO STA.

 	THE INDIS FED. A	CONTRACT	NO. 7	74384
828	D7 BEAM REPAIR 2009-1	Cumberland	6	2
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

INDEX OF SHEETS

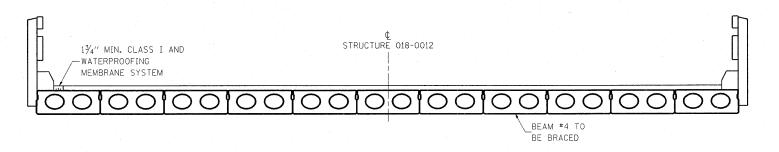
TRAFFIC CONTROL DEVICES

701901-01

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES AND INDEX OF SHEETS
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTION AND PLAN VIEW
5-6	BRIDGE PLANS
THE FOLLOWING S INCLUDED AFTER	TANDARDS ARE A PART OF THESE PLANS AND ARE SHEET NO. 6:
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

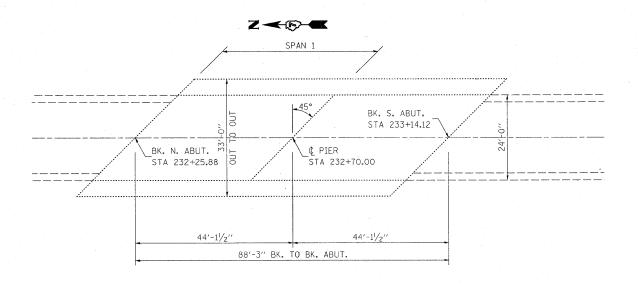
	SUMMARY OF QUANTITIES			CONSTRUCTIO	N TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	SFTY-2A 100% STATE	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5450	5450	
67100100	MOBILIZATION	L SUM	1	1 1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
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١,	FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS		SUMA	MARY OF QUANTITIES	8	828 D7	BEAM REPAIR 2009-1	Cumberland & 3
		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		CUEET NO. O	CUEETE STA				CONTRACT NO. 74384
		PLOT DATE = *DATE*	DATE -	REVISED -		SCALE:	SHEET NO. 0	F SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT



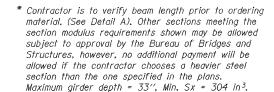
11 - 21" PPC DECK BEAMS @ 3'-0" = 33'-0"

TYPICAL SECTION OF SOUTH SPAN (LOOKING NORTH)



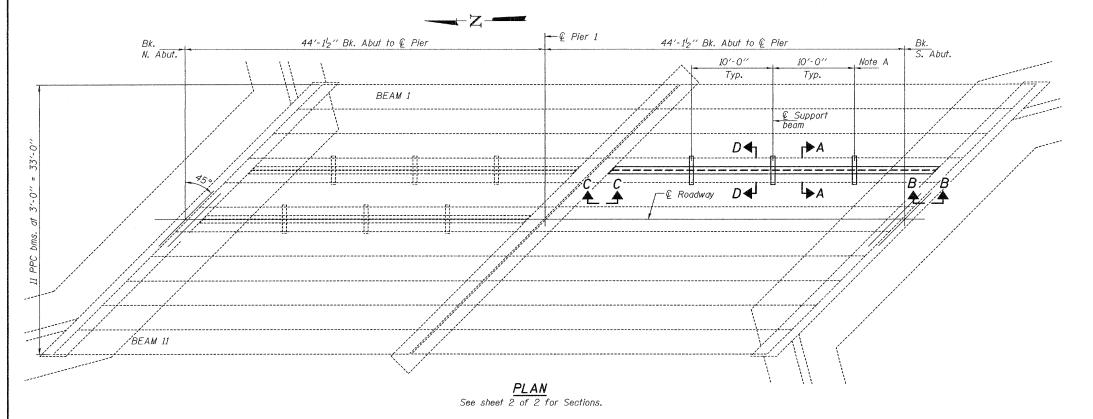
PLAN

ı	FILE NAME =	USER NAME = steffenmk	DESIGNED ~	REVISED -								F.A.P. RTE.	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
	o:\pw_work\PWIDOT\STEFFENMK\dØ123131\D7	4384-sht-typ.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TYPICA	L SECTI	ON AN	D PLAN VIE	W	828	D7 BEAM REPAIR 2009-1	Cumberland	d 6	4
		PLOT SCALE = 20.00000 '/ IN.	CHECKED -	REVISED ~	DEPARTMENT OF TRANSPORTATION						**************************************			CONTRAC	T NO. 74	384
		PLOT DATE = 2/9/2009	DATE ~	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

* W30x116 -Bk. N. Abut. S. Abut. ELEVATION



Note A:

DESIGNED VICTO- H. Veliz

CHECKED VHV TAB

CHECKED

DRAWN

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

EXAMINED

MARCH 9, 2009

PASSED Rath C. Adum

ENGINEER OF BRIDGES AND STRUCTURES



Face of Pier. Face of Abut. 39'-734" 40'-614" DETAIL A

Expires: November 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.

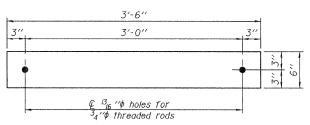
See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods.

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 contractors 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.



TRANSVERSE TIE P'S P. A '2" x 3'-6" x 6" (3 Req'd)

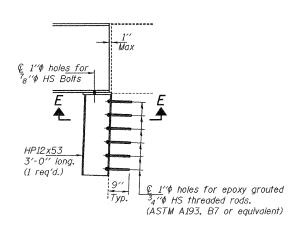
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	5450
		1

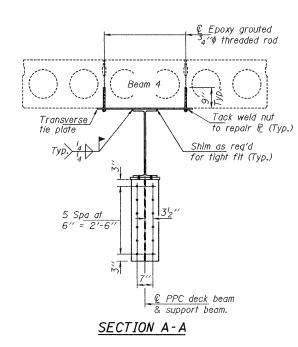
PLAN AND ELEVATION FAP 828 OVER LONG POINT CREEK SN 018-0012

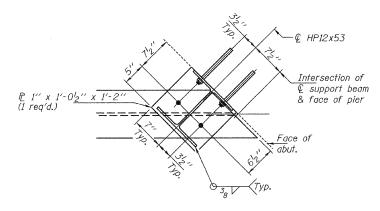
SHEET NO.1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	828	D7 BEAM REPAIR 2009-1	CUMBERLAND	6	5
2 SHEETS	HEETS			NO. 74	384
	FED. RC	DAD DIST. NO. ILLINOIS FED.	AID PROJECT		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

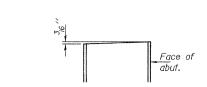


SECTION B-B

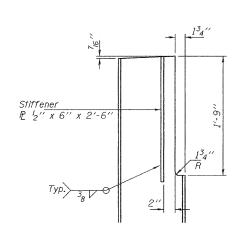




SECTION E-E



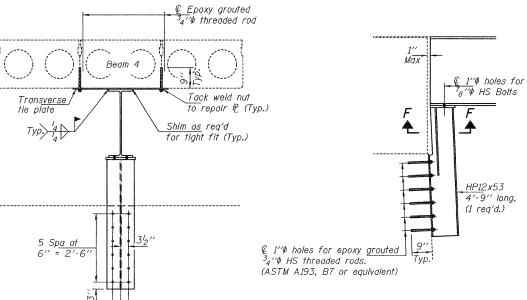
TYPICAL HP SLOPE CUT AT ABUTMENT



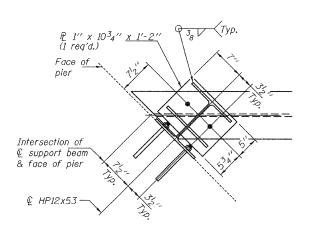
& PPC deck beam & support beam.

SECTION D-D

PARTIAL HP SECTION AT PIER



SECTION C-C



SECTION F-F

REPAIR DETAILS
FAP 828 OVER LONG POINT CREEK
SN 018-0012

SHEET NO. 2

SHEET NO. 2

2 SHEETS

F.A.P. SECTION

COUNTY SHEETS NO. SHEET NO. COUNTY SHEETS NO. COUNTY SHEETS NO. COUNTY SHEETS NO. COUNTY SHEETS NO. COUNTY SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHE

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