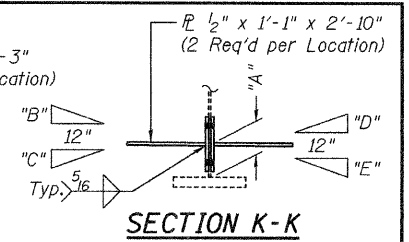
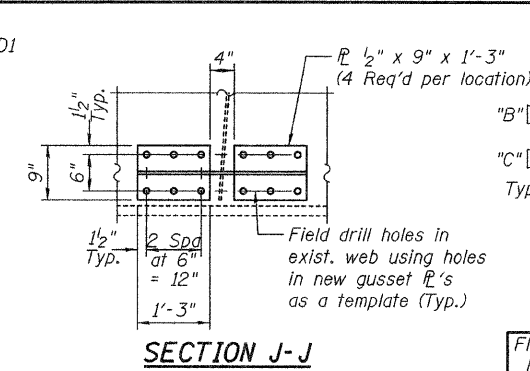
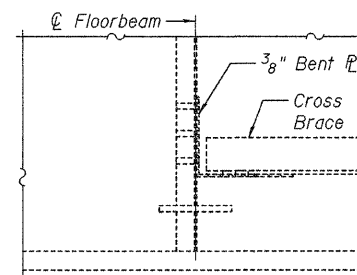
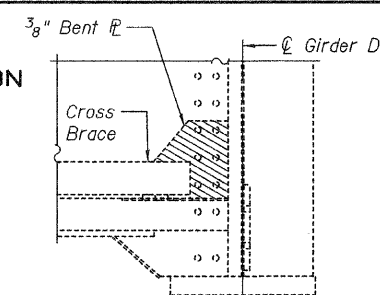
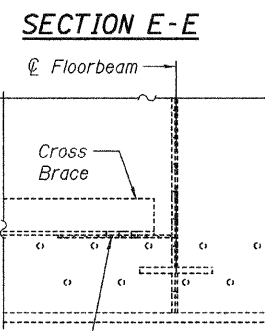
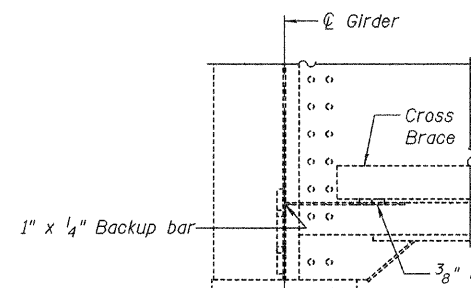
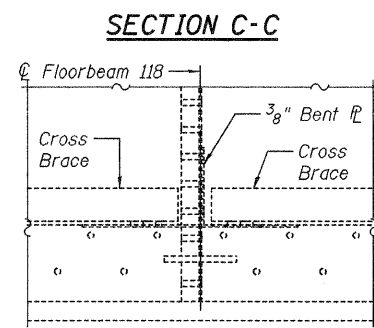
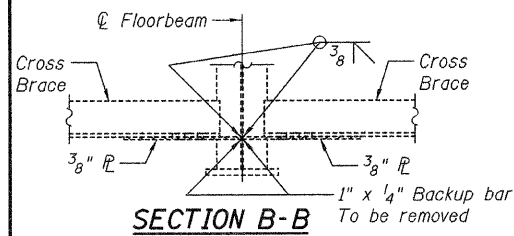
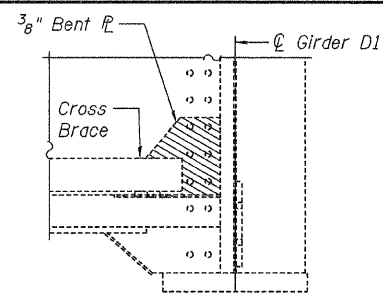
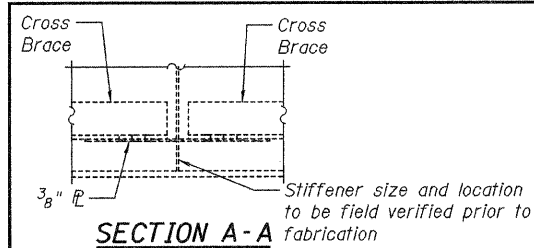
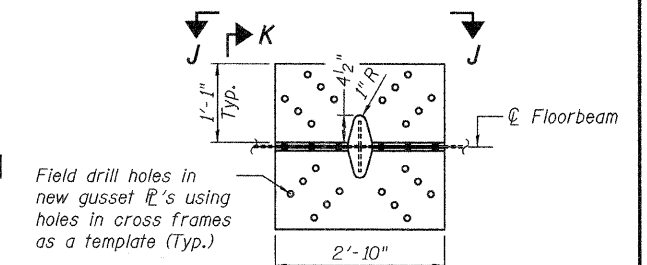
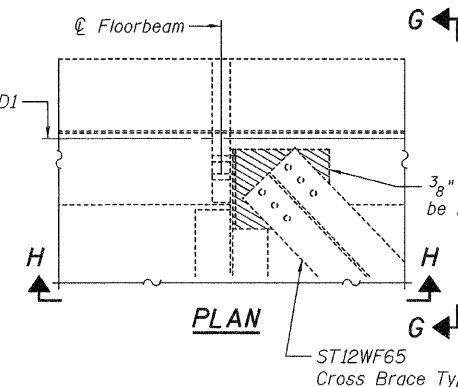
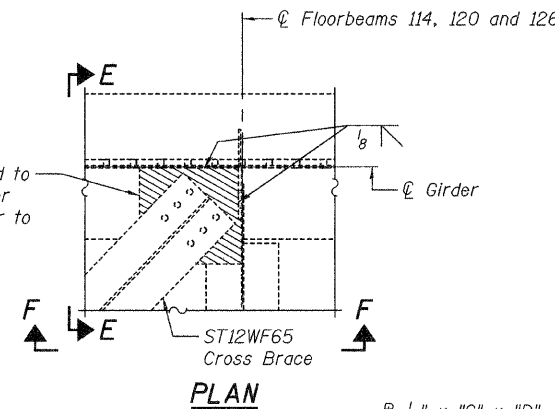
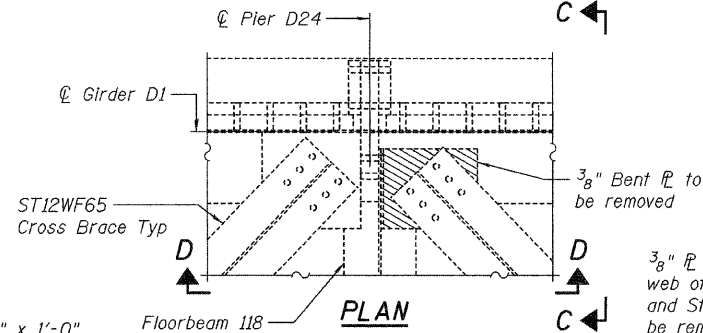
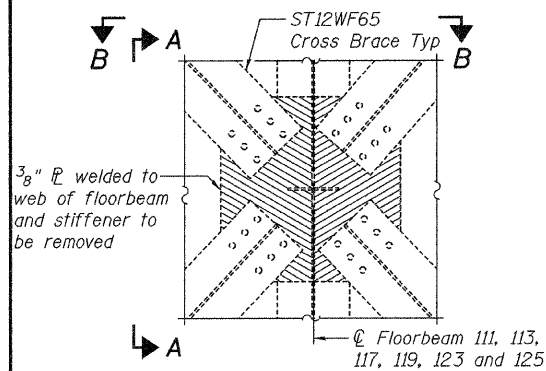


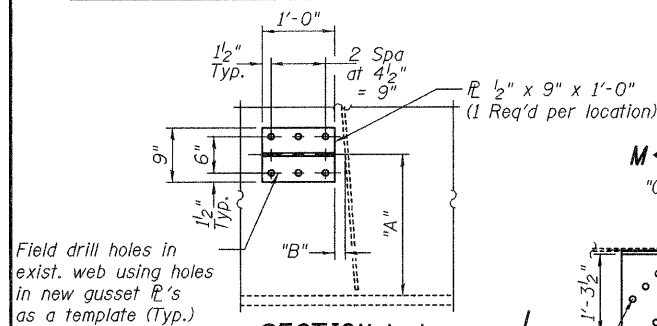
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



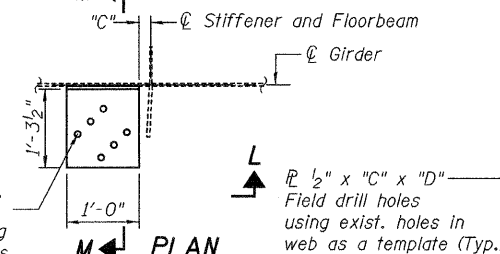
Floorbeam Number	Dimensions Repair 1				
	"A"	"B"	"C"	"D"	"E"
111	5 3/4"	16"	-	-	16"
113	5 7/8"	16"	-	-	16"
117	6 1/8"	0	0	0	1/2"
119	5 1/2"	-	16"	16"	-
123	5 3/4"	0	0	1/2"	-
125	5 7/8"	-	1/8"	1/8"	-



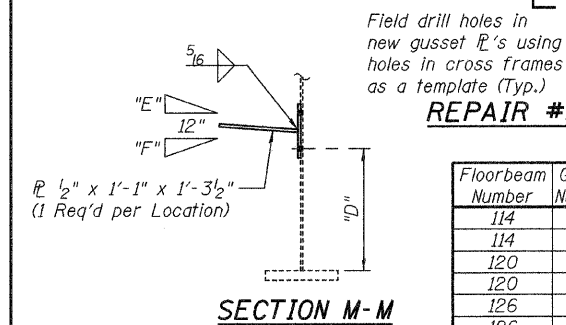
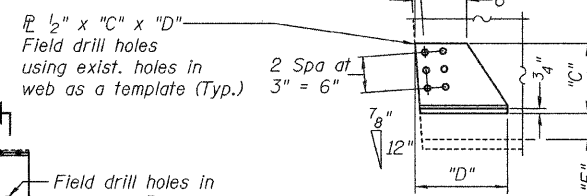
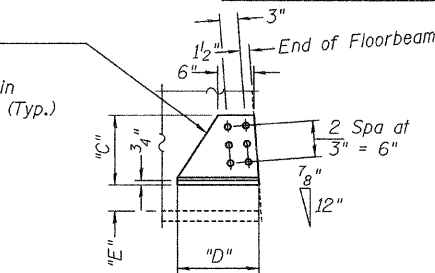
REPAIR #1 REMOVAL DETAILS



REPAIR #2 REMOVAL DETAILS



REPAIR #3 REMOVAL DETAILS



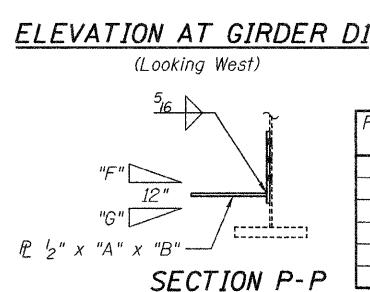
REPAIR #3 DETAILS

Floorbeam Number	Girder Number	Dimensions Repair 3					
		"A"	"B"	"C"	"D"	"E"	"F"
114	D1	1'-11 1/2"	1 3/4"	2"	1'-8 1/4"	1/8"	-
114	D2	1'-11 1/2"	1 3/4"	1 3/8"	1'-8 1/4"	-	1/8"
120	D1	11 1/4"	1 3/4"	2"	8"	1/8"	-
120	D2	11 1/4"	1 3/4"	2"	8"	-	1/8"
126	D1	11 1/4"	1 3/4"	2"	8"	5/8"	-
126	D2	11 1/4"	1 1/8"	1 3/8"	8"	-	3/4"

DESIGNED A.T.H.
CHECKED V.H.V.
DRAWN Drew Christopher
CHECKED A.T.H. V.H.V.

May 7, 2009
EXAMINED *Carl P. Jones*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

PLAN AT D1
(D2 Opposite Hand)



REPAIRS 2 AND 4 DETAILS

Floorbeam Number	Girder Number	Dimensions Repair 2						
		"A"	"B"	"C"	"D"	"E"	"F"	"G"
112	D1	12 1/2"	15 3/4"	11 1/2"	15 3/8"	4 3/8"	-	1/8"
112	D2	12 1/2"	15 3/4"	12 1/8"	16 3/8"	4 3/8"	-	1/8"
118	D1	12 1/2"	15 3/4"	11 1/2"	15 3/8"	4 1/4"	0"	0"
118	D2	12 1/2"	15 3/4"	12 1/8"	16 3/8"	4 1/4"	0"	0"
124	D1	12 1/2"	15 3/4"	11 1/2"	15 3/8"	4 1/2"	1/8"	-
124	D2	12 1/2"	15 3/4"	12 1/8"	16 3/8"	4 1/2"	1/8"	-

Floorbeam Number	Girder Number	Dimensions Repair 4						
		"A"	"B"	"C"	"D"	"E"	"F"	"G"
110	D1	13 1/2"	13 1/2"	11 1/2"	13 3/8"	4 1/2"	-	1/8"
110	D2	13 1/2"	13 1/2"	12 1/8"	14 3/8"	4 1/2"	-	1/8"
116	D1	13 1/2"	13 1/2"	11 1/2"	13 3/8"	4 1/2"	-	1/8"
116	D2	13 1/2"	13 1/2"	12 1/8"	14 3/8"	4 1/2"	-	1/8"
122	D1	13 1/2"	13 1/2"	11 1/2"	13 3/8"	4 3/8"	0"	0"
122	D2	13 1/2"	13 1/2"	12 1/8"	14 3/8"	4 3/8"	0"	0"

Procedure for Gusset Flange Removal Repairs 1 and 3
(Cost included with Structural Steel Removal)
1. Remove existing 3/8" connecting plate. The minimum distance from cut to face of web or stiffener shall be the larger of 1/4" or web/stiffener to flange weld size, with removal of remaining material including the backup bar by grinding as described below. The cut shall be made parallel to the web and stiffener without angling the cut towards the web and stiffener. Equipment and method of cutting shall be approved by the Engineer. Any method of removal to be used shall ensure that no damage is done to the existing web, vertical stiffener or welds connecting these elements. Cutting shall be done in a manner such that the paint on the opposite face of the web and stiffener is not damaged. If damage occurs, the damaged area shall be repainted at the contractor's expense and procedures shall be modified to prevent damage at subsequent removal locations.
2. Remove material between cut and web/stiffener by grinding and grind smooth at web/stiffener surface. Web/stiffener flange surfaces shall have a roughness average (Ra) of 250 μin. or less. Grinding equipment shall be approved by the Engineer. The grinding operation should not gouge the girder web/stiffener flange.
3. The web/stiffener surface at the modification shall be inspected using dye penetrant or magnetic particle (MT) methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

DETAILS
SN 082-0144

SHEET NO. 2 2 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ΔΔ	82D-I	St. Clair	4	4
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		
CONTRACT NO.		76C96			