BUTT & FILLET WELDS TO BE WELDED BY THE SUBMERGED ARC WELDING METHOD. SEE SPECIAL PROVISIONS.

CUT TOP FLG. AT SECT. B-B & J-J
CUT BOT. FLG. AT SECT. A-A & H-H

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 5	110X-15SB	SANGAMON	25	8
STA.		TO STA.		
S. P. R. 000X NO. 1	ILLINOIS	PROJECT		

SHEET 1 OF 19

TYPICAL COVER PL CUT-OFF
SCALE: 1"=1'-0"

7 SPA. @ 3½" = 1'-9½"

GIRDER WEB

SECTION C-C
SCALE: HALF SIZE

½" WEB PL.

½" SPLICE PL.

SECTION A-A
SECTION B-B, H-H & J-J SIMILAR
SCALE: 1"=1'-0"

GIRDER

2-END L 3½"x5½"x½"
1-END PL 12"x½"
CUT N.S.L. TO FIT-TOP
CUT F.S.L. TO FIT-TOP & BOT.

INSIDE ELEVATION OF GIRDER
SCALE: 1"=1'-0"

105'-0" BACK TO BACK OF ℄

℄ BRG.

2-END L 3½"x5½"x½"
1-END PL 18"x½"
CUT ℄ TO FIT TOP & BOTT.

1-CHANNEL 18C51.9 F.S.
1-FLANGE L 7"x4"x⅝ N.S.
1-SIDE PL 10½"x⅝ N.S.
EACH FLANGE

½"ø (C.R.) SEE SHT. 7

4-BRG. STIFF. L's 4"x4"x⅜"-F&E
2-BRG. PL's 4"x⅜"-F&E
2-FILL PL's 2½"x⅜"
GRIND BRG. STIFF. L's & PL's TO BEAR TOP & BOTT.

8½"x½" PL-TOP AT BRACKET

3"x½" PL-TOP

3"x½" PL-TOP ONLY

7"x½" PL TOP & BOT. AT STIFF.

5/16 3-6

WEB OF FLOOR BEAM BRACKET (TYP.)

5½"x⅜" STIFF. PL (TYP.)

84"x½" WEB PL

74"x½" PL AT BRACKET

21½"-4"x7"x½"-N.S. (TYP.)

4"x⅜" PL N.S. (C.R.) CONT.

℄ SHOP WEB SPLICE

2-15½"x½" SPLICE PL's TOP & BOTT. GRIND F.S. SPLICE PL's TO FIT C FILLET

18"x½" SPLICE PL N.S.

½"ø (C.R.) SEE SHT. 7

2-BRG. STIFF. L's 4"x7"x¾"-F&E-N.S.
2-BRG. STIFF. L's 4"x6"x¾"-F&E-F.S.
1-BRG. PL 7"x¾"-F&E-N.S.
1-BRG. PL 4"x¾"-F&E-F.S.
2-FILL PL's 21½"x⅝"
GRIND BRG. STIFF. L's & PL's TO BEAR TOP & BOTTOM

4-L 7"x7"x⅞"-N.S. (CUT FROM 2 B.B. 2)
1-END PL 14"x⅞" CUT L TO FIT BOTT.

SECTION SHOWING BOTTOM FLANGE OF GIRDER
SCALE: 1"=1'-0"

GIRDER

10'-6" TO ℄

W.P.

2-½" BENT PL's

END FLOOR BEAM 16WF71

FLOOR BEAM 16WF50-(TYP.)

½" GUSSET PL-(TYP.)

FILL PL

NOTE:
FILL PLATES BETWEEN BOTTOM OF GUSSET PLATES AND TOP OF BOTTOM FLANGE ANGLES SHALL VARY TO PROVIDE FOR ADJUSTMENT FOR OVERRUN/UNDERRUN OF FLOOR BEAMS.

F.R.AD.

2-5" BENT PL's

NOTES:
FOR SECTIONS D-D, E-E, F-F, G-G, K-K
SEE SHEET 5

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
161 E. WACKER DRIVE CHICAGO, ILLINOIS

GIRDER DETAILS
UNDERPASS

I.T.R.R. OVER SOUTH 5TH STREET EXTENDED SPRINGFIELD, ILLINOIS

BRIDGE No. F-77.5
PROJECT UG 166(40)
SECTION 110X-7SB
F.A. ROUTE 5
SANGAMON COUNTY
STATION 84+22.70

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

084-0033 (FOR INFORMATION ONLY)

SCALE: | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
666	D-6 PAINTING 2008	SANGAMON	13	9
	2012	CONTRACT NO. 72C48		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		