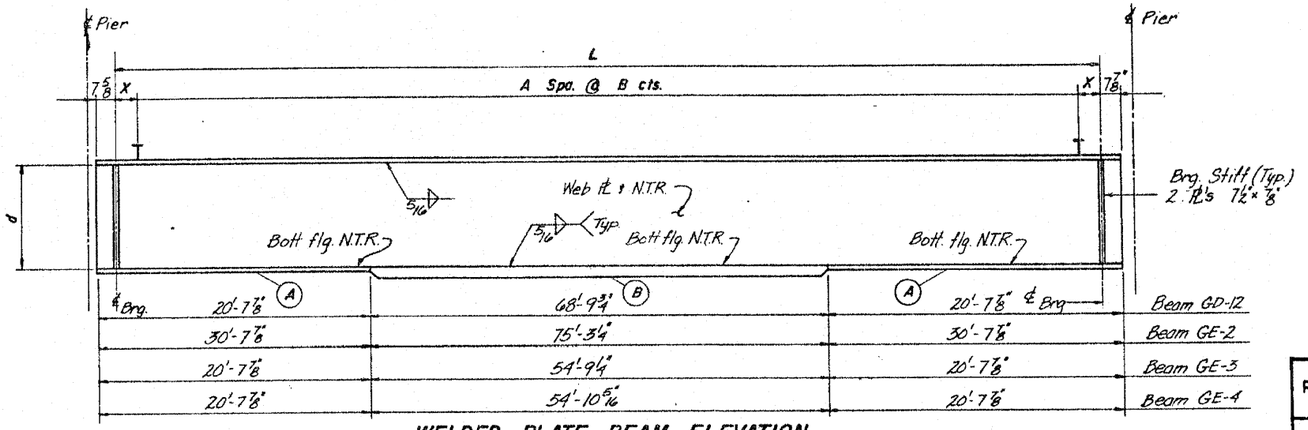


WELDED PLATE BEAM ELEVATION

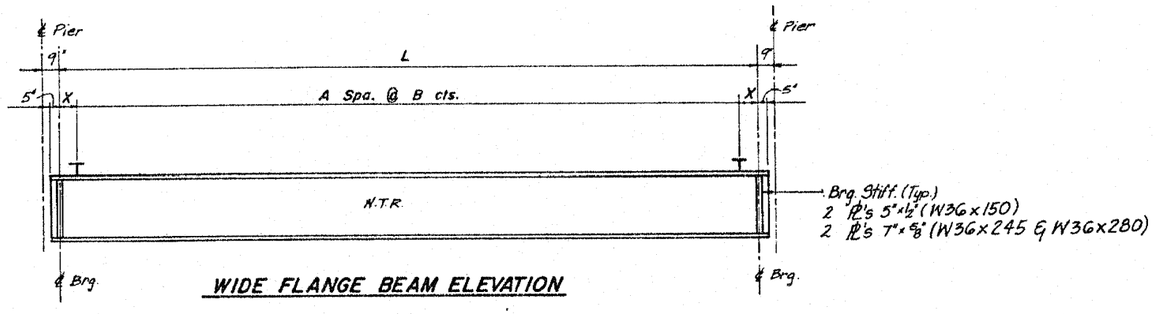
WELDED PLATE BEAMS,																
SPAN	BEAM	L (℄ BRG. TO ℄ BRG)	d	t	TOP FLG.	BOTTOM FLANGE A	BOTTOM FLANGE B	TOP OF WEB ELEV. ℄ BRG. PIER NO.	TOP OF WEB ELEV. ℄ BRG. ELEV.	TOP OF WEB ELEV. ℄ BRG. PIER NO.	TOP OF WEB ELEV. ℄ BRG. ELEV.	STUDS PER ROW	SHEAR CONNECTORS SPACING A	B	C	D	X
D1	GD-12	108'-9¾"	48	½	¾ x 16	1 x 16	2 x 16	D53	43.762	E22	49.326	4	9@	14"			9"
E7	GE-2	155'-3¼"	66	9/16	¾ x 16	1 x 16	2 x 16	E24	41.076	E23	47.328	4	6@	24"			9"
E9	GE-3	94'-9¼"	48	½	¾ x 16	⅞ x 16	1¾ x 16	E22	49.409	*E-1	54.900	4	9@	12"			9"
E9	GE-4	94'-10⅝"	48	½	¾ x 16	⅞ x 16	1¾ x 16	E22	48.144	*E-1	52.750	4	9@	12"			9"

GIRDER SCHEDULE (WF ONLY)

MARK	SECTION	COVER PLATES SIZE	COVER PLATES LENGTH
G43, G44, G45	36WF135	—	—
G46	36WF135	—	—
G58	36WF194	11"x⅞"	54'-6
G54, G55, G56, G59, G60, G61	36WF182	11"x1 1/16"	53'-0
G57	36WF194	11"x1"	54'-0
G62	36WF194	11"x3/16"	51'-0
G63, G68, G73, G78	36WF150	11"x½"	42'-0
G64, G65, G66, G69, G70, G71, G74, G75, G76, G79, G80, G81	36WF135	11"x9/16"	47'-0
G67, G72, G77, G82	36WF150	11"x½"	40'-0

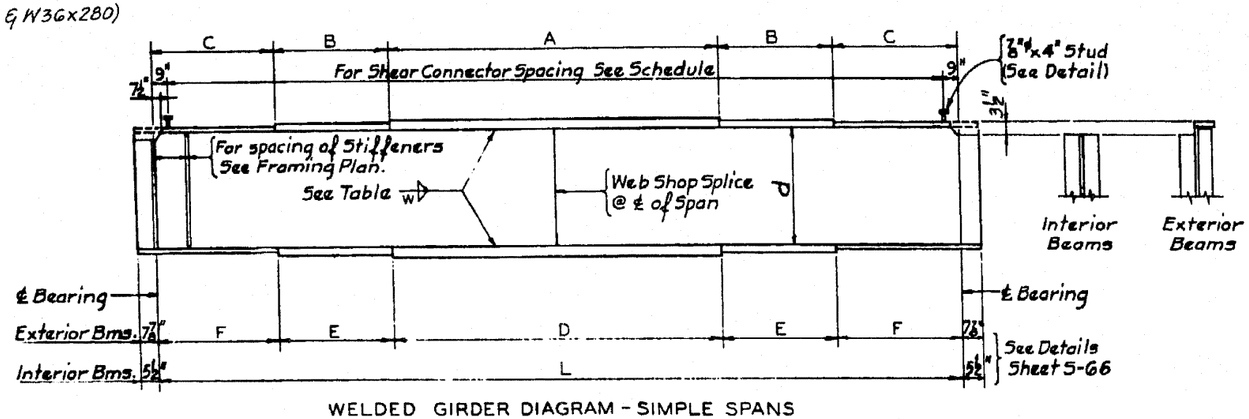
SCHEDULE OF WELDED PLATE GIRDERS

RAMP	NO.	L	WEB d	WEB THICK	TOP FLANGE A	TOP FLANGE B	TOP FLANGE C	BOTTOM FLANGE D	BOTTOM FLANGE E	BOTTOM FLANGE F
E ℄ D	G36	94'-9 11/16	48"	7/16"	16x1¼x46'-9 11/16	—	16x⅞x24'-0	16x2x64'-9 11/16	—	16x1x15'-0
	G37	94'-9 5/16	48"	⅜"	16x1x44'-9 5/16	—	16x¾x25'-0	16x1¾x61'-9 5/16	—	16x1x18'-0
	G38	94'-9 5/16	48"	⅜"	16x1x44'-9 5/16	—	16x¾x25'-0	16x1¾x61'-9 5/16	—	16x1x18'-0
	G39	94'-9 9/16	48"	⅜"	16x1x44'-9 9/16	—	16x¾x25'-0	16x1¾x61'-9 9/16	—	16x1x18'-0
	G40	94'-10⅜	48"	⅜"	16x1x44'-10⅜	—	16x¾x25'-0	16x1¾x61'-10⅜	—	16x1x18'-0
	G41	94'-11	48"	⅜"	16x1x44'-11	—	16x¾x25'-0	16x1¾x61'-11	—	16x1x18'-0
E	G47	134'-11	66"	½"	20x2¼x70'-0	16x1⅞x17'-5½	16x1x15'-0	16x3½x70'-0	16x2¾x17'-5½	16x1¼x15'-0
	G48	134'-4 15/16	66"	7/16"	16x1⅜x69'-4 15/16	—	16x1x32'-6	16x2¼x66'-4 15/16	16x1⅜x14'-0	16x1x20'-0
	G49	133'-10 11/16	66"	7/16"	16x1⅜x68'-10 11/16	—	16x1x32'-6	16x2¼x65'-10 11/16	16x1⅝x14'-0	16x1x20'-0
	G50	133'-4 9/16	66"	7/16"	16x1⅜x68'-4 9/16	—	16x1x32'-6	16x2¼x65'-4 9/16	16x1⅝x14'-0	16x1x20'-0
	G51	132'-10⅜	66"	½"	16x2x68'-10⅜	16x1½x15'-0	16x1x17'-0	16x2¾x68'-10⅜	16x2x15'-0	16x1x17'-0
D	G91	108'-8⅝	48"	7/16"	16x1¾x60'-8⅝	—	16x1¼x24'-0	16x2¾x56'-8⅝	16x2x14'-0	16x1x12'-0
	G92	108'-8⅝	48"	⅜"	16x1¼x58'-8⅝	—	16x1x25'-0	16x2¼x58'-8⅝	16x1⅝x10'-0	16x1x15'-0
	G93	108'-8¾	48"	⅜"	16x1¼x58'-8¾	—	16x1x25'-0	16x2¼x58'-8¾	16x1⅜x10'-0	16x1x15'-0
	G94	108'-8⅞	48"	⅜"	16x1¼x58'-8⅞	—	16x1x25'-0	16x2¼x58'-8⅞	16x1⅜x10'-0	16x1x15'-0



WIDE FLANGE BEAM ELEVATION

WIDE FLANGE BEAMS GN-1 TO GN-19													
SPAN	BEAM	BEAM SIZE	L (℄ BRG. TO ℄ BRG)	TOP OF BEAM ELEV. AT ℄ BEARINGS PIER NO.	ELEV.	PIER NO.	ELEV.	STUDS PER ROW	SHEAR CONNECTORS SPACING A	B	C	D	X
E6	GE-1	W36x245	76'-2 1/16"	E25	37.540	E24	41.083	4	8@	10"	"		9"



WELDED GIRDER DIAGRAM - SIMPLE SPANS

FILE NAME =	USER NAME = rgall	DESIGNED - AMR	REVISED -	
		DRAWN - AMR	REVISED -	
	PLOT SCALE = 1.2000 ' / IN.	CHECKED - JMH	REVISED -	
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATIONS & SCHEDULES – LOCATION 9
STRUCTURE NO. 016-1047

SCALE: NTS | SHEET NO. 5 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2010-127-BP	COOK	160	131
		CONTRACT NO. 60N01		
		ILLINOIS FED. AID PROJECT		

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