

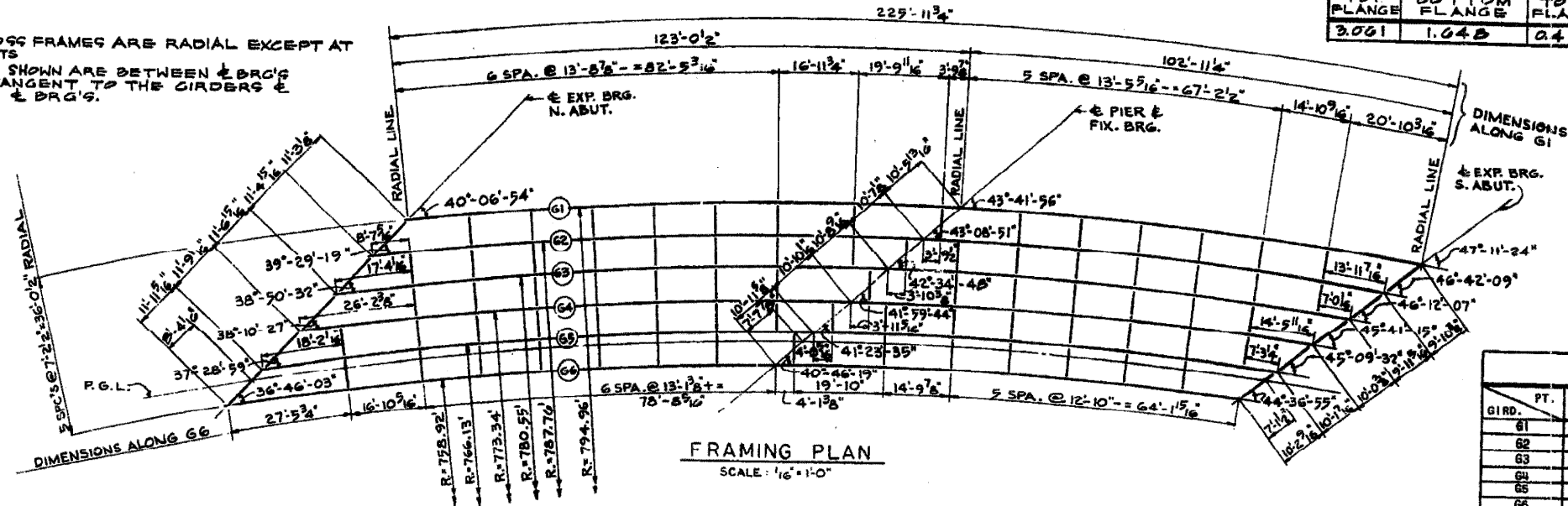
FOR INFORMATION ONLY

LOCATION 2 Structure Number 081-0108

NOTES:
ALL CROSS FRAMES ARE RADIAL EXCEPT AT ABUTMENTS
ANGLES SHOWN ARE BETWEEN ϵ BRG'S AND A TANGENT TO THE GIRDERS ϵ AT THE ϵ BRG'S.

MAX. FLANGE STRESS DUE TO TOTAL TORSION					
0.4 SPAN 1-2		PIER		0.6 SPAN 2-3	
TOP FLANGE	BOTTOM FLANGE	TOP FLANGE	BOTTOM FLANGE	TOP FLANGE	BOTTOM FLANGE
3.061	1.048	0.414	0.414	1.904	1.269

TABLE OF MOMENTS AND REACTIONS, INTERIOR GIRDERS						
LOADING	MOMENTS (FT-KIPS)			REACTIONS (KIPS)		
	0.4 SPAN 1-2	PIER	0.6 SPAN 2-3	BEARING 1 (N. ABUT.)	BEARING 2 (PIER)	BEARING 3 (S. ABUT.)
DEAD LOAD	1028	-2136	642	46.4	162.3	39.7
S.D.L.	167	-276	84	7.1	22.1	5.1
LIVE LOAD	965	-1044	819	42.5	77.8	41.6
IMPACT	200	-219	190	8.5	16.3	9.2
TOTAL COMPOSITE	1362	-3675	1083	-	-	-
TOTAL STEEL	1028	-2136	642	104.5	278.5	95.6



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TOP OF WEB ELEVATION*					
GIRD.	PT. N. ABUT.	SPICE	PIER	SOUTH SPICE	URGS. S. ABUT.
G1	10.480	9.761	9.474	9.256	8.083
G2	10.128	9.451	9.172	8.872	8.374
G3	9.835	9.154	8.872	8.575	8.067
G4	9.546	8.858	8.574	8.274	7.762
G5	9.259	8.565	8.278	7.975	7.457
G6	8.935	8.264	7.984	7.678	7.151

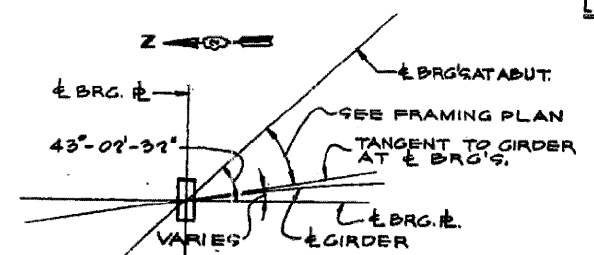
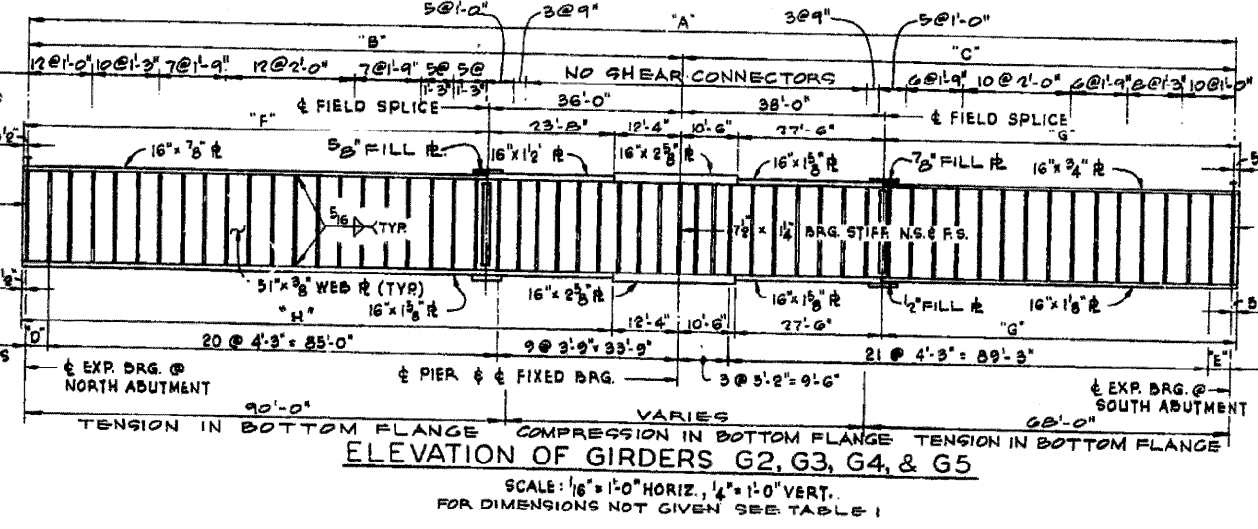
* ADD TO +680.000 TO OBTAIN TOP OF WEB ELEVATION

TABLE OF PROPERTIES INTERIOR GIRDERS			
LOCATION	0.4 SPAN 1-2	PIER 2	0.6 SPAN 2-3
STEEL SECTION			
1s	20828	64582	23896
Sts	938	2296	811
Sbs	1375	2296	1021
COMPOSITE SECTION			
1c	71824	-	57128
Stc	5670	-	5797
Sbc	1746	-	1328

GIRDER LINE	DIMENSIONS (ALONG ϵ GIRDER)			
	A	B	C	D
G1	225'-11 3/8"	123'-0 1/2"	102'-11 1/4"	4'-3 1/2"
G2	225'-10"	122'-11 7/8"	102'-10 7/8"	4'-2 1/8"
G3	225'-9 1/4"	122'-10 7/8"	102'-10 7/8"	4'-1 7/8"
G4	225'-9"	122'-10 3/8"	102'-10 7/8"	4'-1 3/8"
G5	225'-9 1/4"	122'-11 3/8"	102'-10 7/8"	4'-1 3/8"
G6	225'-11 3/8"	123'-0 1/2"	102'-11 1/4"	4'-3 1/2"

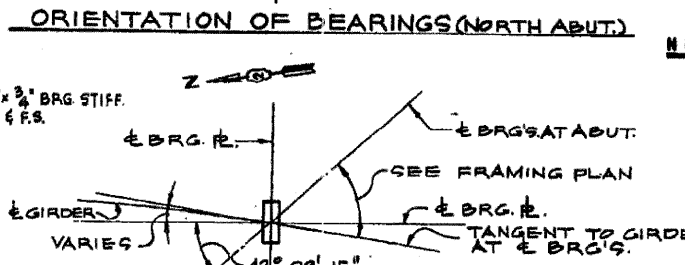
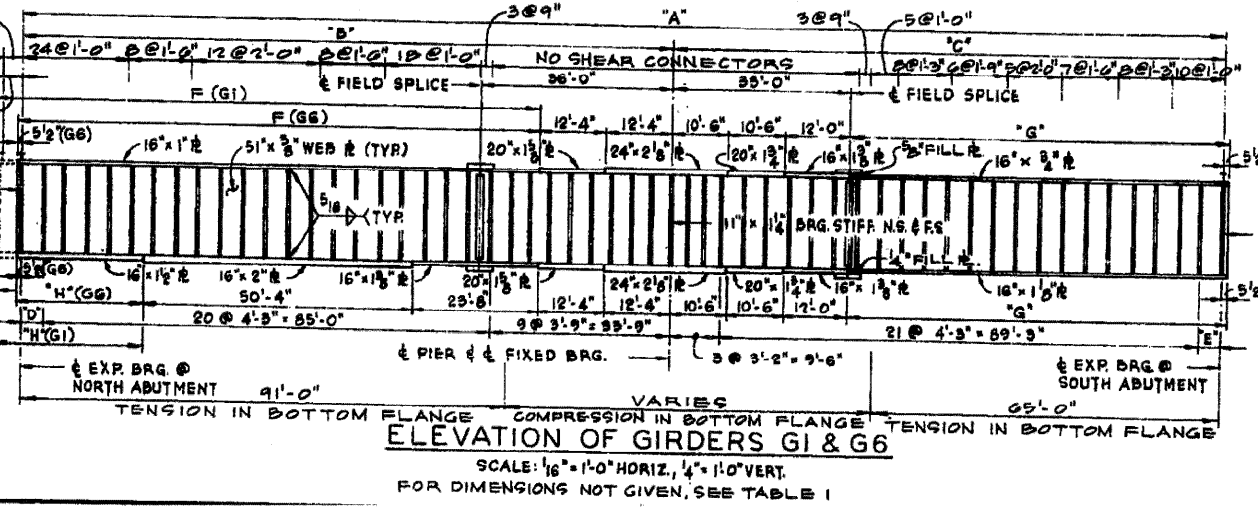
BILL OF MATERIAL**		
ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	398,600
STUD SHEAR CONNECTORS	EACH	7888

** INCLUDES ALL SUPERSTRUCTURE STRUCTURAL STEEL EXCEPT BEARINGS AND EXPANSION DEVICES.



- LEGEND
- SDL - SUPERIMPOSED DEAD LOAD ACTING ON COMPOSITE SECTION.
 - 1s - MOMENT OF INERTIA OF STEEL SECTION.
 - Sts - SECTION MODULUS AT TOP OF STEEL SECTION.
 - Sbs - SECTION MODULUS AT BOTTOM OF STEEL SECTION.
 - 1c - MOMENT OF INERTIA OF COMPOSITE SECTION (WITH 7 1/2" SLAB)
 - Stc - SECTION MODULUS AT TOP OF STEEL, COMPOSITE SECTION.
 - Sbc - SECTION MODULUS AT BOTTOM OF STEEL, COMPOSITE SECTION.
 - NS - NEAR SIDE.
 - FS - FAR SIDE.

NOTE "A"
INTERMEDIATE CROSS FRAME STIFFENER PLATES SHALL BE PLACED AS SHOWN ON THE FRAMING PLAN. INTERMEDIATE STIFFENERS SHALL BE SPACED AS SHOWN ON GIRDER ELEVATIONS EXCEPT THAT WHEN AN INTERMEDIATE STIFFENER FALLS CLOSER THAN 6" TO A CROSS FRAME STIFFENER IT SHALL BE PLACED 6" FROM THE CROSS FRAME STIFFENER.



FRAMING PLAN
F.A. 1.74 - SECTION 81-118-5
F.A. 1.74 UNDER NORTHBOUND FRONTAGE RD.
ROCK ISLAND COUNTY
STATION 365+ 51.04
SCALE: AS NOTED