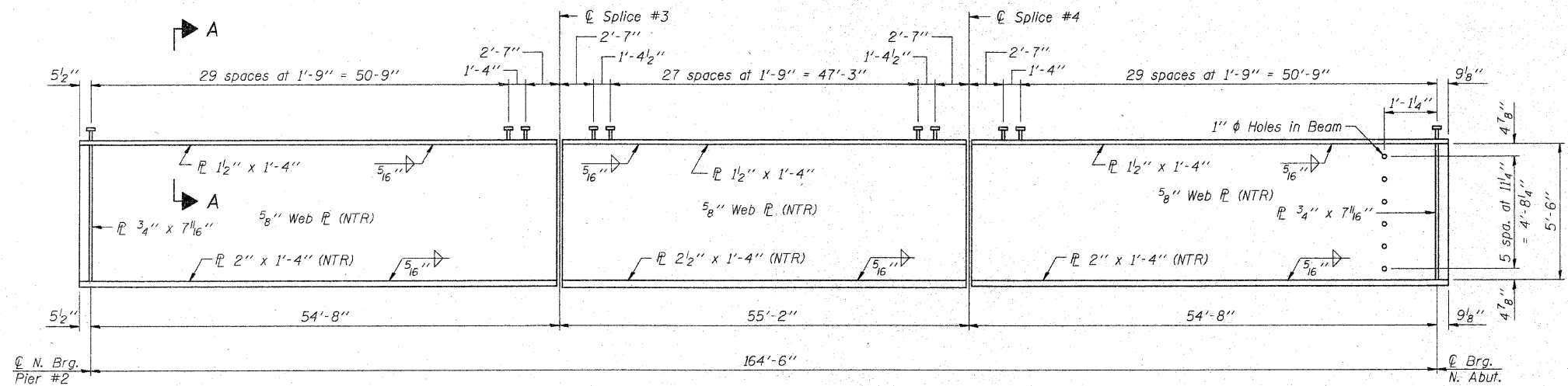
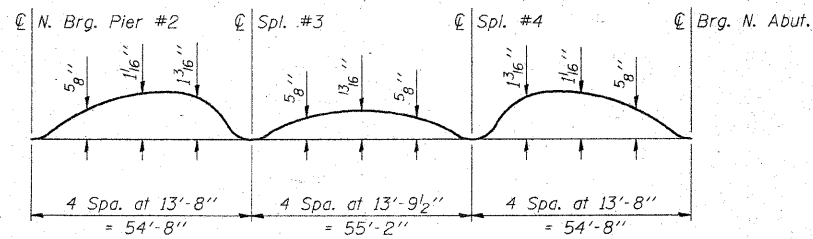


FRAMING PLAN - SPAN 3

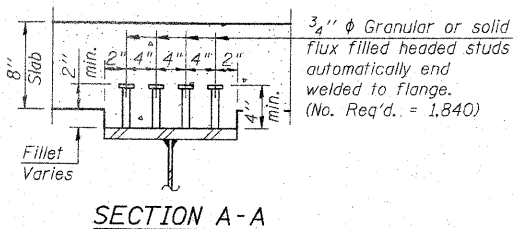


GIRDER ELEVATION

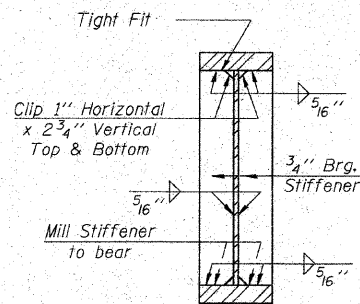
"NTR" denotes plates to which notch toughness requirements are applicable.



CAMBER DIAGRAM



SECTION A-A



SECTION AT N. ABUT. & C. N. BRG. PIER #2

TOP OF WEB ELEVATIONS (FOR FABRICATORS USE ONLY)				
Beam Number	C. N. Brg. Pier #2	Splice #3	Splice #4	C. Brg. N. Abut.
1	631.307	631.811	631.921	631.636
2	631.437	631.941	632.051	631.766
3	631.567	632.071	632.181	631.896
4	631.427	631.931	632.041	631.756
5	631.287	631.791	631.901	631.616

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	2,000

NOTES:

See Structural Sheet 19B of 33B for shear stud connector spacing on splice plates.

All cross frames shall be installed as steel is erected and secured with erection pins and bolts. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

INTERIOR GIRDER MOMENT TABLE		0.5 Span #3
I_s	(in ⁴)	86,280
$I_c(n)$	(in ⁴)	168,760
$I_c(3n)$	(in ⁴)	123,936
S_s	(in ³)	2,859
$S_c(n)$	(in ³)	3,517
$S_c(3n)$	(in ³)	3,235
DC1	(k/')	1.138
MDC1	(k)	3,800
DC2	(k/')	0.180
MDC2	(k)	608.8
DW	(k/')	0.338
MOW	(k)	1,143.3
M _L + IM	(k)	2,946.7
M _u (Strength I)	(k)	12,383
* $\phi_r M_n$, $\phi_r M_{nc}$	(k)	16,336
f_s DC1	(ksi)	15.9
f_s DC2	(ksi)	2.3
f_s DW	(ksi)	4.2
f_s 1.3(4+IM)	(ksi)	13.1
f_s (Service II)	(ksi)	35.5
f_s (Total)(Strength I)	(ksi)	46.7
** V _r	(k)	71.9

* Compact sections
** Non-Compact and slender sections

INTERIOR GIRDER REACTION TABLE (SERVICE LOADS)			
		S. C. Pier #2	N. Abut.
R _{DC1}	(k)	91.8	135.3
R _{DC2}	(k)	14.8	14.8
R _{DW}	(k)	27.8	27.8
R _L + IM	(k)	110.4	110.4
R _{Total}	(k)	244.8	293.4

FRAMING PLAN - SPAN 3
C.H. 8 OVER IOWA INTERSTATE RAILROAD
& THE HENNEPIN CANAL
STATION 36+00
S.N. 006-3247
WHA #1066D05

STRUCTURAL SHEET NO. 18B OF 33B SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	188	05-00195-00-BR	BUREAU	127	84
CONTRACT NO. 87380					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BR5-0188(118)					