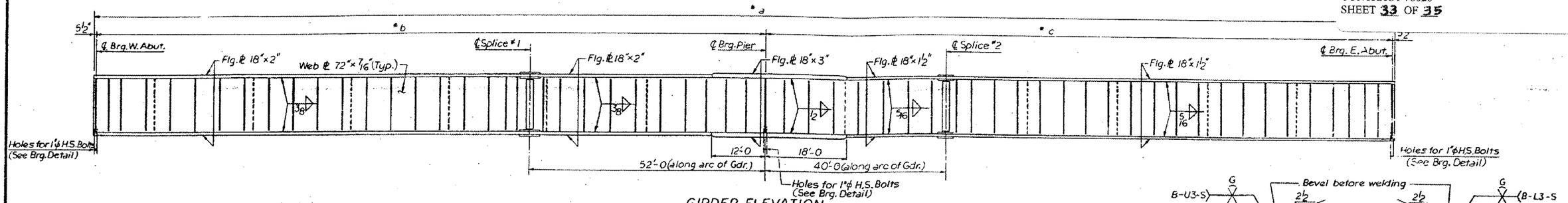
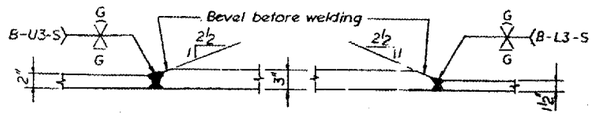
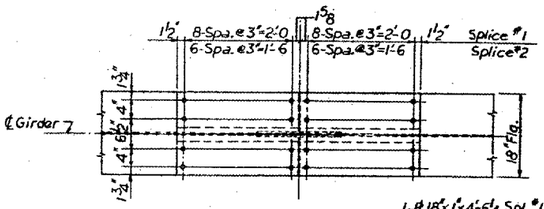
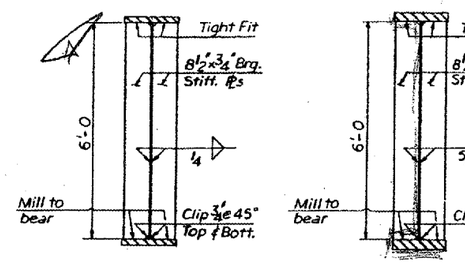


GIRDER ELEVATION

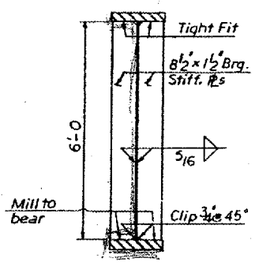


FLANGE SHOP SPLICES

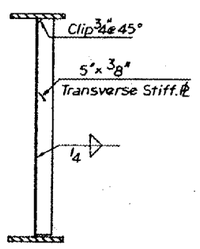




SECTION AT ABUTMENT



SECTION AT PIER

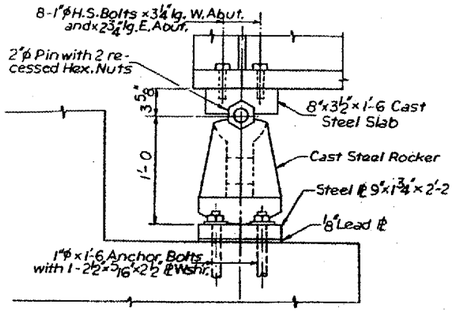


TYPICAL SECTION NEAR ABUTMENT

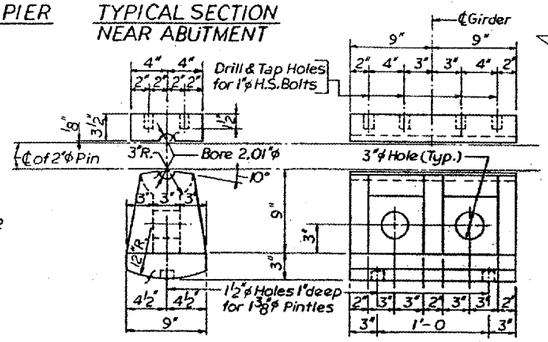
NOTE:
Transverse Stiffeners between splices shall be welded to bottom flange with ¼" fillet weld and shall have ⅝" undercut at top. Remainder of Stiffeners shall be welded to top flg. with ¼" fillet weld and shall have ⅜" undercut at bott.
Transverse Stiff's @ Gdr's 1 & 6 shall be placed on inside face of web.
* For Dim. a, b & c see "Table of Dimensions" and for Stiffener spacing & location see Framing Plan-Span 2 and 3 sht. 8

INTERIOR GIRDER MOMENT TABLE				
		0.4 Span 2	Pier	0.4 Span 3
I	(in⁴)	112200	165.564	86,549
℄	(K/i)	1.55	1.55	1.55
M℄	(iK)	2478	− 4415	1843
M¼	(iK)	1415	− 1658	1240
Imp.	(iK)	258	− 308	234
M TOTAL	(iK)	4151	− 6381	3317

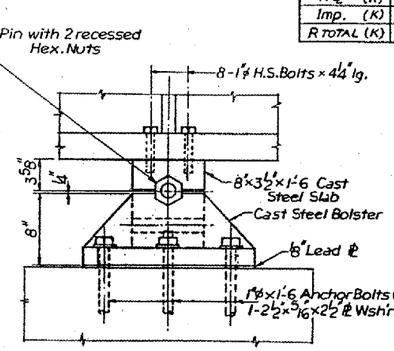
INTERIOR GIRDER REACTION TABLE				
		W. Abut.	Pier	E. Abut.
R℄	(K)	89.5	285.4	77.0
R¼	(K)	47.9	100.0	46.3
Imp.	(K)	8.7	12.1	8.8
R TOTAL	(K)	146.1	397.5	132.1



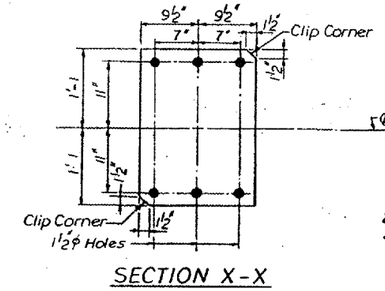
ABUTMENTS



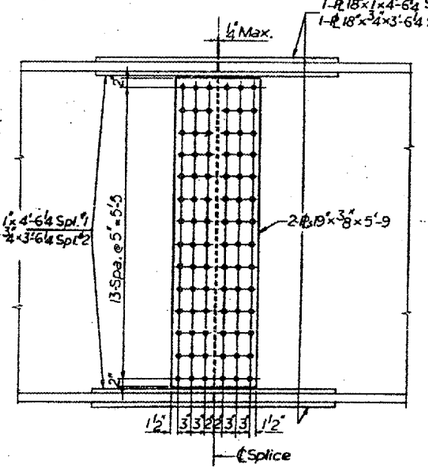
CAST STEEL ROCKER



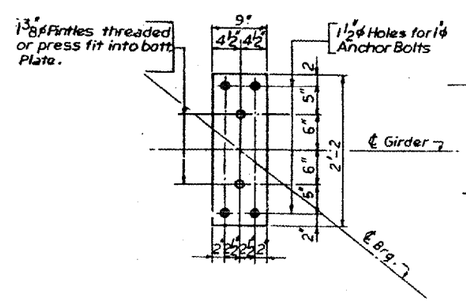
PIER



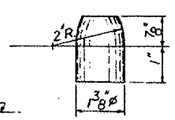
SECTION X-X



FIELD SPLICE DETAIL
⅞"ϕ H.S. Bolts (Friction)



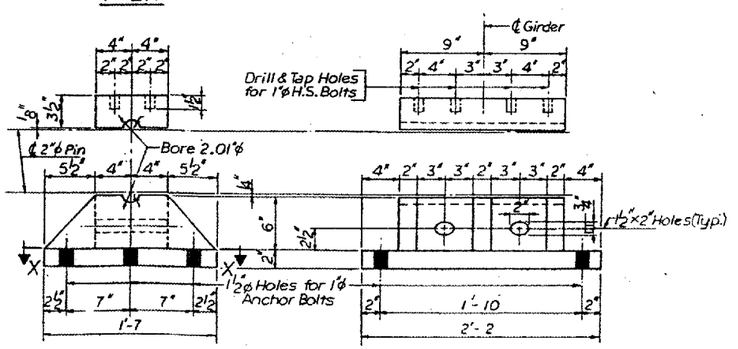
PLAN OF BOTTOM PLATE



PINTLE DETAIL

BILL OF MATERIAL-BRG'S		
Item	Unit	Quantity
Carbon Steel	Lbs.	2740
Cast Steel	Lbs.	9780
Total	Lbs.	12,520

No's:
Pins, Steel ℞s, Bolts, Anchor Bolts and Lead ℞s are included in Carbon Steel.
The above quantities are included in Structural Steel on Sht. 3
Cast Steel shall be Class 70. Structural steel weldments of equal sections and meeting ASTM A 36 may be substituted for castings at the option of the Contractor, subject to approval by the Engineer prior to fabrication. No additional compensation will be allowed the Contractor for this substitution.



CAST STEEL BOLSTER

BRIDGE NO. 6
S.N. 100-0060
FOR INFORMATION ONLY

ILLINOIS DIVISION OF HIGHWAYS
F.A.I. ROUTE 24
PROJECT _____ SECTION XI-2HB
WILLIAMSON COUNTY
STEEL DETAILS
Designed By: H.M. | Drawn By: E.M. | Quantities By: L.P.