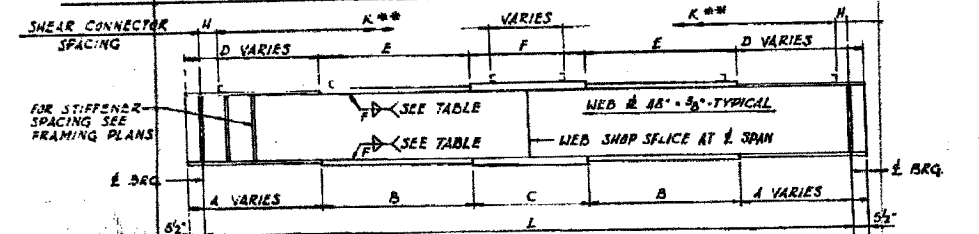
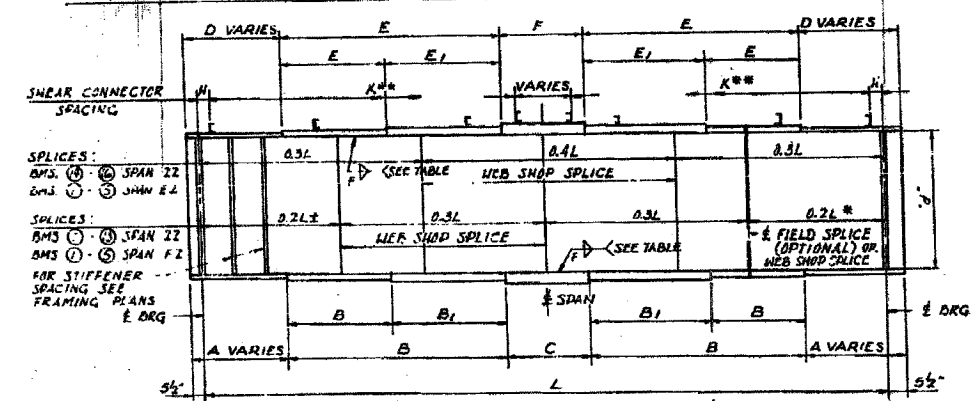


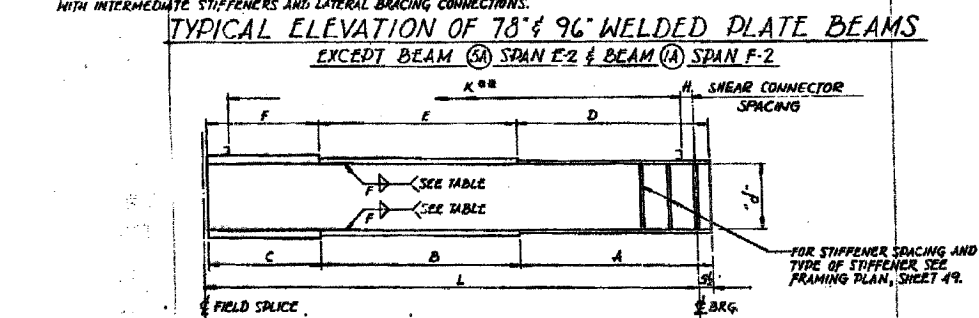
TYPICAL ELEVATION OF 48' WELDED PLATE BEAMS - SPANS 18, 19, 20



TYPICAL ELEVATION OF 48' WELDED PLATE BEAMS - SPANS 21, E, I, F-1



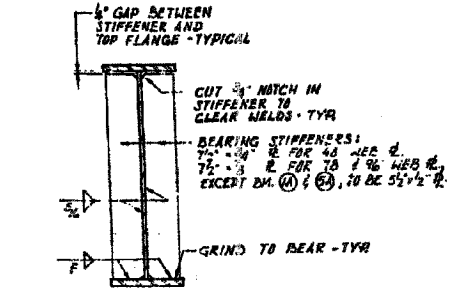
TYPICAL ELEVATION OF 78' & 96' WELDED PLATE BEAMS EXCEPT BEAM (5A) SPAN E-2 & BEAM (A) SPAN F-2



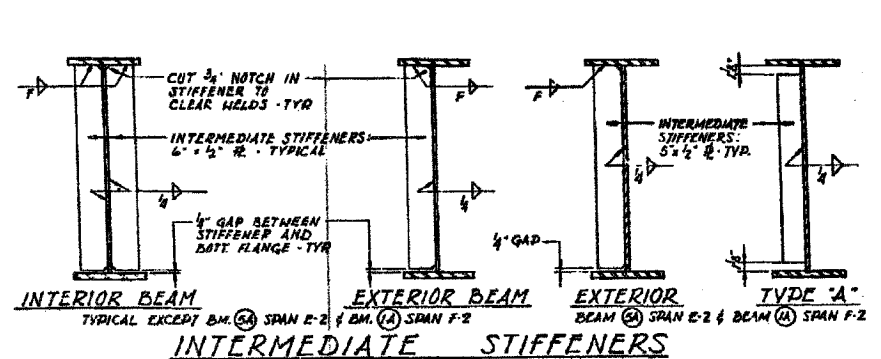
TYPICAL ELEVATION OF 78' WELDED PLATE BEAM (5A) AND 96' WELDED PLATE BEAM (A)

**WELD SIZE 'F' TABLE**

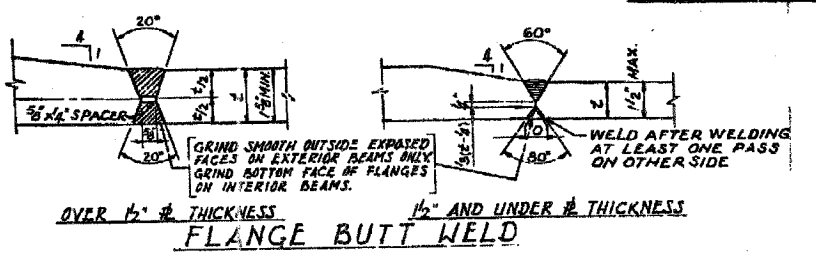
FLANGE PLATE THICKNESS	WELD SIZE 'F'
3" THRU 1 1/2"	5/16"
1 1/2" THRU 2 1/4"	3/8"
2 1/4" THRU 4"	1/2"



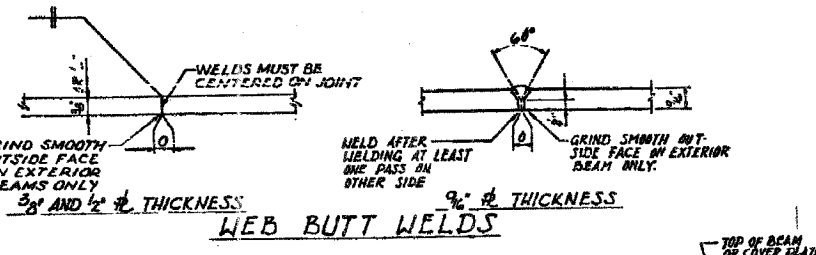
BEARING STIFFENERS



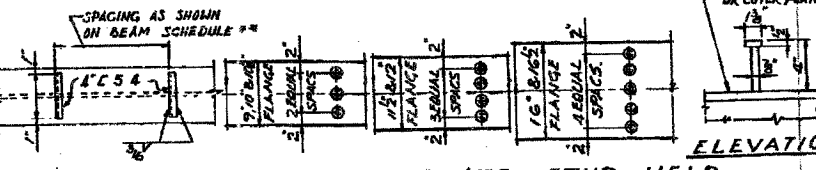
INTERMEDIATE STIFFENERS



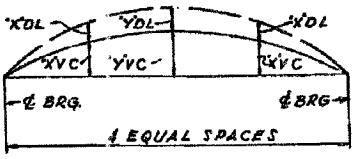
FLANGE BUTT WELD



WEB BUTT WELDS



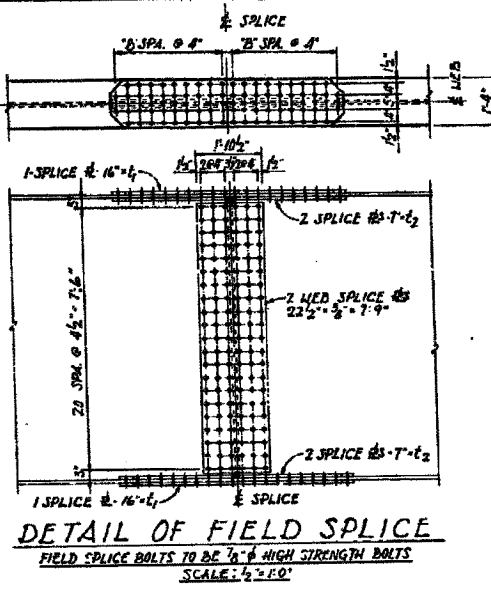
CHANNEL SHEAR CONNECTOR ALTERNATE STUD WELD SHEAR CONNECTOR



CAMBER DIAGRAM

HEIGHT OF STRUCTURAL STEEL NOT INCLUDED. ALL WELDED PLATE BEAMS SHALL BE CAMBERED FOR D.L. DEFLECTION AND VERTICAL CURVE, EXCEPT AS NOTED "DO NOT CAMBER."

\*X' D.L. (Y') D.L. ORDINATE FOR DEAD LOAD DEFLECTION DIMENSIONS  
 \*X' V.C. (Y') V.C. ORDINATE FOR VERTICAL CURVE DIMENSIONS.



DETAIL OF FIELD SPLICE

TABLE OF SPLICE PLATES & NO. OF SPACES

SPAN	BEAM	THICKNESS OF SPLICE PLATES	NO. OF HIGH STRENGTH BOLTS SPACES
22	1,2,3	1 1/2"	9
	4,5,7,8,9	1"	7
F-2	3,7,11,13	1"	5
	1,2,3,4,5	1 1/2"	8

**NOTES:**  
 STUD WELDED SHEAR CONNECTORS MAY BE SUBSTITUTED FOR CHANNEL SHEAR CONNECTORS SHOWN ON THE PLANS AT THE CONTRACTOR'S OPTION. SPACING SHOWN IN SCHEDULE SHALL APPLY TO EITHER TYPE OF SHEAR CONNECTOR.  
 ALL LONGITUDINAL DIMENSIONS ARE HORIZONTAL AND TAKEN ALONG BOTTOM OF WEB PLATE.  
 FOR FRAMING PLANS SEE SHEETS 47 THRU 49.  
 \*\* ADJUST SHEAR CONNECTOR SPACING AT FIELD SPLICE AND FLANGE SHAP SPICES TO AVOID INTERFERENCE WITH BOLT HEADS OR BUTT WELDS RESPECTIVELY.  
 ALL WELDS SHALL BE MADE BY THE MERGED ARC WELDING METHOD EXCEPT THAT WELDS MAY BE MADE BY THE MANUAL SHIELDED METAL ARC METHOD PROVIDED WELDING DETAILS ARE MODIFIED AND THE MODIFIED DETAILS AND PROCEDURES ARE APPROVED BY THE ENGINEER.

CITY OF CHICAGO  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF ENGINEERING  
**SOUTH ROUTE SUPERHIGHWAY  
 ELEVATED HIGHWAY  
 CANAL ST. TO CHICAGO RIVER  
 SECTION S-2424.3-2H  
 WELDED PLATE BEAM DETAILS**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 NB DAN RYAN ELEVATED BRIDGE  
 REPAIR FROM 15TH TO 28TH STREETS  
 EXISTING PLAN INFORMATION  
 SN 016-1115

SCALE: NTS  
 DATE: 7/22/2005

DRAWN BY: BDC  
 CHECKED BY: BLU

REVISIONS

NAME	DATE

FOR INFORMATION ONLY