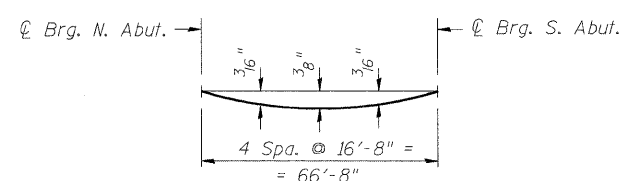


FRAMING PLAN

Note: Contractor to bolt diaphragms in shop, except where erection requires field bolted diaphragm.

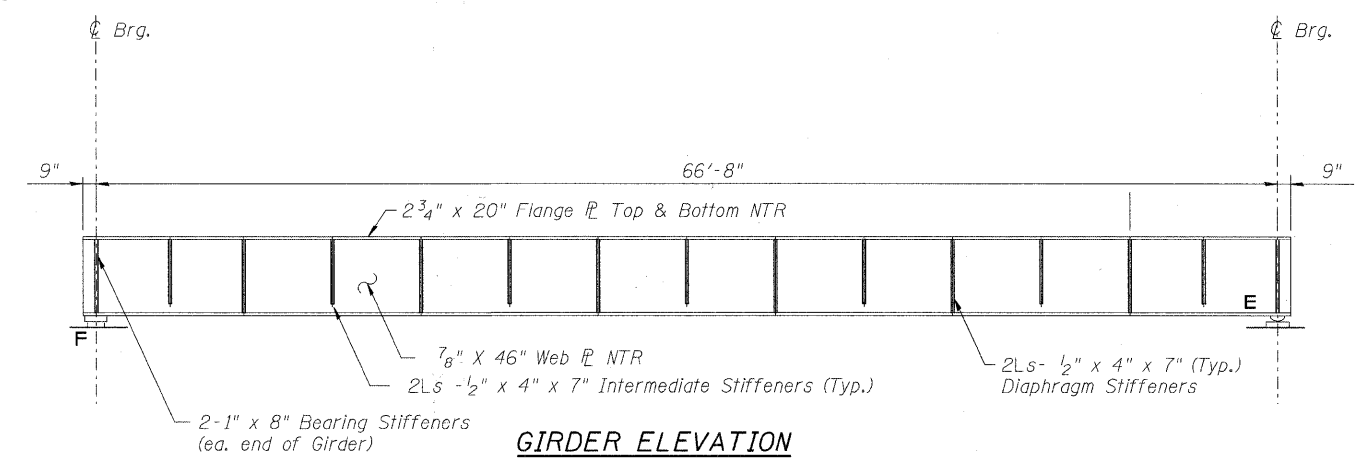


DEAD LOAD DEFLECTION DIAGRAM

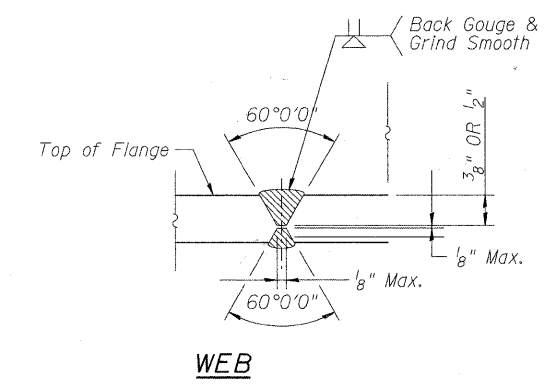
DESIGN DATA PER GIRDER

MOMENT		SHEAR		BEARING ON CONCRETE	
DESCRIPTION		DESCRIPTION		DESCRIPTION	
DEAD LOAD	1,003 (k)	DEAD LOAD	60 Kips	TOTAL REACTION	268 Kips
LIVE LOAD	2,095 (k)	LIVE LOAD	142 Kips	BRG. AREA FURNISHED	300 in ²
IMPACT	974 (k)	IMPACT	66 Kips	AVERAGE BRG. PRESSURE	893 psi
TOTAL	4,072 (k)	TOTAL	268 Kips		
SECTION		WEB SHEAR	7.8 Kips		
WEB	7/8" x 46"	END STIFFENER COLUMN AREA REQUIRED	11.2 in ²		
FLANGE	2 3/4" x 20"	SECTION	2-1" x 8"		
I FURNISHED GROSS	71,440 (in ⁴)	END STIFFENER COLUMN AREA FURNISHED	265 in ²		
ALLOWABLE MAX. TENSILE STRESS IN FLANGE	27.5 (ksi)				
ACTUAL MAX. TENSILE STRESS IN FLANGE	20.5 (ksi)				
ALLOWABLE LL DEFLECTION	1.25 (in.)				
ACTUAL LL DEFLECTION	1.18 (in.)				

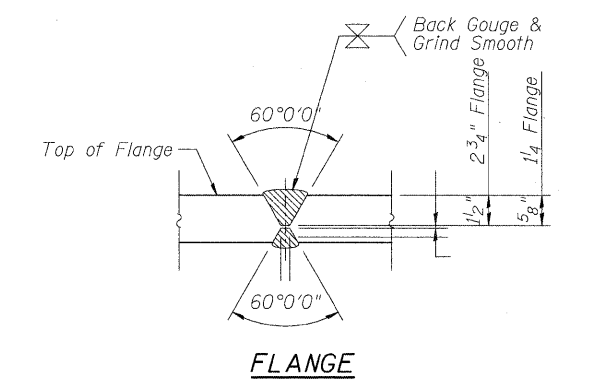
NTR = Notch Toughness Requirements



GIRDER ELEVATION



WEB



FLANGE

OPTIONAL BUTT SPLICE

Note: Use Prequalified Butt welds, Typ. Engineer to approve Butt Splices prior to installation.

FILE NAME = P:\6015597\002_CAD\01_Drawing\Sheet\Structure\016-7721\016-7721-01.dwg



USER NAME = dabezi02	DESIGNED - BMR	REVISED -
PLOT SCALE = 0.1" = 1' IN.	DRAWN - COM	REVISED -
PLOT DATE = 1/21/2011	CHECKED - DD	REVISED -
	DATE - 11/23/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
STRUCTURE NO. 016-7721**

SCALE: NONE SHEET NO. 10 OF 61 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537	06-00050-00-GS	COOK	209	104
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT CRE-9003(709)	
CONTRACT NO. 63556				