W14-500

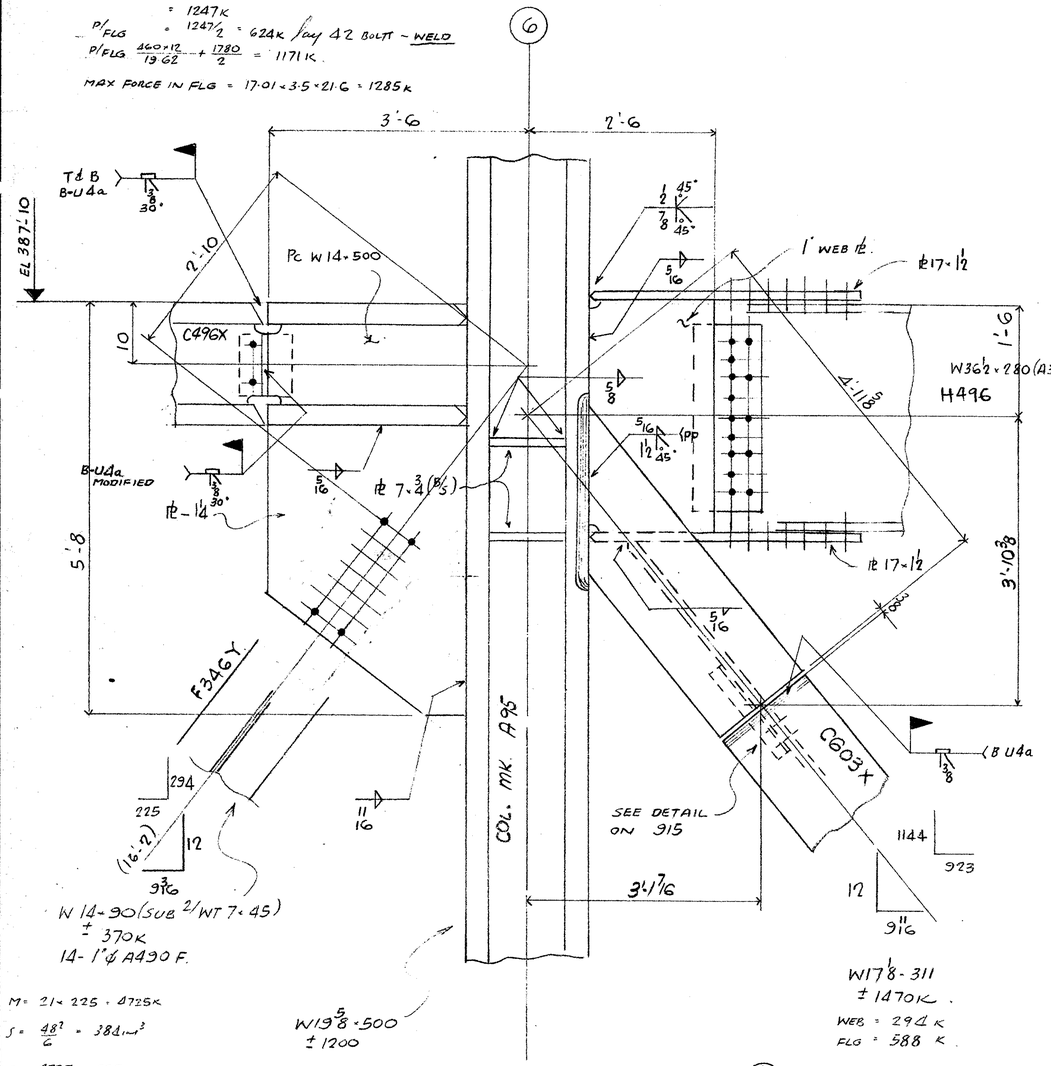
50% NET TENS $\frac{147-(8\cdot1.125\cdot3.5)\cdot21.6}{2}$

= 1247K

P/FLG = 1247/2 = 624K /any Δ2 BOLTT - WELD

P/FLG $\frac{460\times12}{19.62}+\frac{1780}{2}$ = 1171K

MAX FORCE IN FLG = 17.01×3.5×21.6 = 1285K



M = 21×225 = 4725K

S = $\frac{48^2}{6}$ = 384in³

T = $\frac{4725}{384}+\frac{225}{48}$ = 17K

SHEAR = $\frac{294\times100\text{NOMINAL}}{48}$ = 8.2

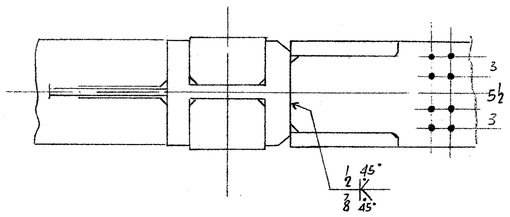
$\sqrt{17^2+8.2^2}$

= 18.8

$\frac{18.8}{2\cdot925}$ = 10.2

/any 11/16 L B/S.

DETAIL (1/945)



SECT- A-A.

50% NET TENS = $\frac{82.4-(8\cdot1.125\cdot1.57)\cdot21.6}{2}$

= 737

= 369 K EACH FLG

USE 28-1"ϕ A490

W36½×280(A36) $\frac{370\times12}{36\cdot5}+\frac{600}{2}$ = 421.7K

USE 28-1"ϕ A490F (1 3/16ϕ HOLES)

PL 17×1½ (2ϕ 4-12-1.5)

WEB $\frac{2060}{10}$ = 206K

SAY 14-1"ϕ A490F (1 1/16 HOLES)

PL 28-¾

WEST ELEVATION (DIAGE120)

DETAILER NOTE
EXTEND ⅜ SHIM PL ON FLR BEAM. BACK BOLT SHIMS FOR ERECTION, PROVIDE DECK SUPPORT L's & PL STOPS FOR CONC AS REQD

WORK THIS DWG WITH DWG # FW12.

ALL MATERIAL A36 U/N.
ALL CONN MATL G 40.21 GR 44W
WELD ~ E70XX

REF E7. E120

REVISED			
DATE ___ BY ___	OPEN HOLES ___	7 WORLD TRADE CENTER	
DATE ___ BY ___	PAINT ___	47 STORY OFFICE BUILDING	
DATE ___ BY ___	ERECTED BY ___	TISHMAN CONSTRUCTION.	CUSTOMER
DATE ___ BY ___	FIELD PAINT ___	EMERY ROTH & SONS PC	ARCHITECT
DATE ___ BY ___	INSPECTION ___	IRWIN G CANTOR PC.	ENGINEER

FRANKEL STEEL LIMITED
220 ATTWELL DRIVE UNIT 1 REXDALE, ONTARIO M9W 5B2

SQUAD FR
MADE BY ACS DATE NOV 84 CHKD. BY A.A.S. DATE Apr 85
CONT. No. 84-15 SHEET 945