69 — 72

28'-10

9'-2 | 5'-3 | 5'-3 | 9'-2 — 5'-4 — 8'-10 — 8'-5 — 1'-0

11'-2

(F/S BEAMS) (N/S BEAMS) POSTS

CUT 3/4 x 8'-3 3/4 — 28-1" x C0 (W/ EXTRA WASHER) — TYP. 5/16

mb, ma, pa, pb, pc, pd, pe, pf, pg, ph, pk

2 PL 5/8 x 1'-8 x 3'-11" - pc
1 - PL 3/8 x 3'-11" - pd
2 - BOLTS 1" A490 x 5
2 - 1" A325 WASHERS
(BACK BOLTED)

8-7/8"x2 3/4

4'-3 3/4 — 4 — 13 @ 3 = 3'-3 — 4 1/2 — 11 1/2 — 12 @ 3 = 3'-0 — C

7'-11 3/4

2-1" x 3 / C0 1" x 3 1/4

13'-3 3/4 C

1-TEE 10 x 4 1/16 x 1/2 x 2'-9 3/8 - ma (N/S) (M.I.E)
1-TEE 10 x 4 1/16 x 1/2 x 2'-9 3/8 - mb (F/S) (11/25)
(A572 GR.50) (SUB 350A)

1-PL 14 x 1 x 27'-1 1/2 - pa (A36) (27/7)

EL. 322.0

pc pd — 1 3/4 — 3 3/3 — 5/8 — 5

9 @ 3 = 2'-3

WEST

15/16 HL (7/8" A325)

3 3/4 — 3 3/8 — 3 3/8 — 5 1/2

1-PL 12 x 1 3/4 x 4'-9 - pf
(24-1" A490 BOLTS x C0")
(24-1" A325 WASHERS) TYP.
1-PL 3 1/8 x 1 x 4'-9 - pg

5/16 HL (1" A490)

14-1" A490 x 5 1/2 (W/EXTRA WASHER)

1'-3 — 2'-10 — 3'-9 15/16 — 9 5/16

2-PL 5 3/4 x 1/2 x 1'-0 - ph (1-N/S, 1-F/S)

1'-2 — 5 — 10 1/2 — 2'-10

2'-3 1/2 — 2'-5 1/2 — 6 @ 3 1/2 = 1'-9

8 1/8 — 12 — 15'-0 (91°) — 5/16 — 2'-0 7/8

4'-11 7/8

CUT 3/4 x 8'-3 3/4 — mb — pb — 5/16 3'-18 (24" EACH END)

2 3/4 — 4 1/4 — 5 1/2 — 2 3/4 — 4 1/4

3 — 3 3/4 — 3 — 3 — 3

4'-4 1/4 — 9 @ 4 1/2 = 3'-4 1/2 — 6 — 4 1/2

pf — ma

A371 (DIV. 3)

ONE ~ W36 3/4 x 168 5/8 x 15/16 ~ 300 x 27'-1 1/2 (27/6)

(10'-4 — 28'-10 — 10'-4)

1-PL 14 x 1 x 27'-1 1/2 - pb (A36) (27/7)

2-PL 5/8 ph (1-N/S, 1-F/S)

1-PL pf

(24-1" A490 BOLT x C0)
(24-1" A325 WASHER)

13/16 HL (1" A490)

1-PL pg

14-1" A490 x 5 1/2 (W/EXTRA WASHER)

2'-10 — 6 @ 3 1/2 = 1'-9 — 5 — 2'-0 7/8 — 22'-1 5/8

8 1/8 — 12

CUT 3/4 x 8'-3 3/4 — mb — pb — 5/16 3'-18 (24" EACH END)

pf — ma — 3 — 18'-6 1/4 — 4 1/2 — 9 @ 4 1/2 = 3'-4 1/2

1-PL 1" x 1'-4 x 1'-0 - pk
2-PL 5/8 x 1'-4 x 1'-0 - pc
2 BOLTS 1" A490 x 5
2 - 1" A325 WASHERS
(BACK BOLTED)

8 1/4 — 5 1/2 — 3 1/4 — 3 1/2

SECT" B-B

19'-1 3/4 — C0-7/8"x2 3/4 — 8-7/8"x2 3/4 — 22'-5 3/4 — 4

18'-10 3/4 C — 12 @ 3 = 3'-0 — 11 1/2 — 4 1/2 — 13 @ 3 = 3'-3

26'-5 3/4 — 3 3/3

1-TEE - ma (N/S)
1-TEE - mb (F/S)

IN mb — 15/16 HL (7/8" A325)

5 1/16 — 15/16 HL (7/8" A325)

pa, pb, pc, pd, pe, pf, pg, ph, pk

MILL — 13 3/8 — 9 @ 3 = 2'-3 — 5 — 5 — 3 3/3 — 5 1/2 — 2 3/4 — 4 1/4

GA: 4'-4

pb — pf — pg — ph

SECT" A-A

- ALL 1" BOLTS TO HAVE 2 WASHERS DETAIL MAT'L G40.21 44W U/N
- WELD : E70XX SERIES ELECTRODES
- REF : DIAG: E2, E121, 912, 913

8 5/16

FIELD BOLT SUMMARY

28-7/8" A325 x 2 3/4		
6-1" A490 x 3 1/4	2-1" A490 x 3	
28-1" A490 x 5 1/2	56-1" A490 x 6	
64-1" WASHERS (A325)		
28-1" WASHERS (A325)		

FOR 1" A490 BOLTS

REVISED		
DATE ____ BY ____	OPEN HOLES	1/16" U/N
DATE ____ BY ____	PAINT	NONE
DATE ____ BY ____	ERECTED BY	
DATE ____ BY ____	FIELD PAINT	
DATE ____ BY ____	INSPECTION	

7 WORLD TRADE CENTER
WIND GIRDER 2ND FLOOR S.ELEV. (CORE)
TISHMAN CONSTRUCTION — CUSTOMER
EMERY ROTH & SONS P.C. — ARCHITECT
IRWIN G. CANTOR P.C. — ENGINEER

Mar 4/85

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

SQUAD F.R.
MADE BY K.B.N. DATE FEB/85 CHK'D. BY D.I. DATE FEB 85
CONT. No. 84-15 SHEET 371