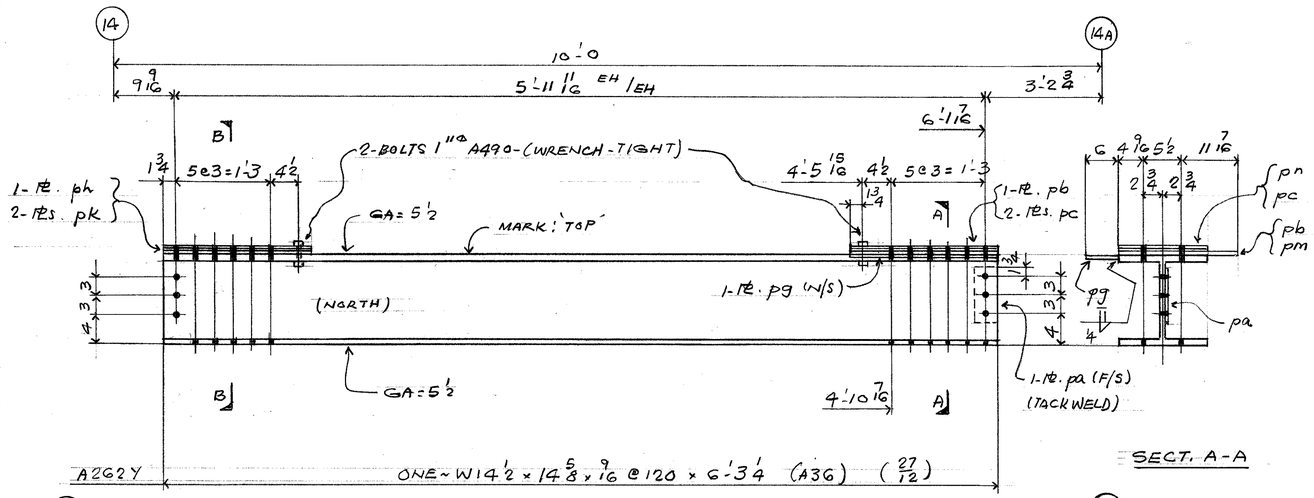
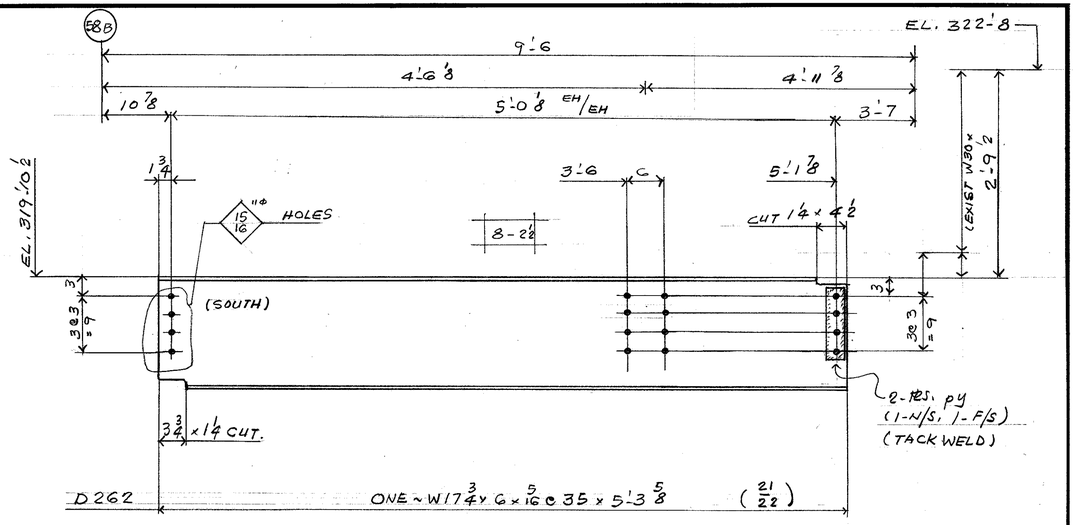
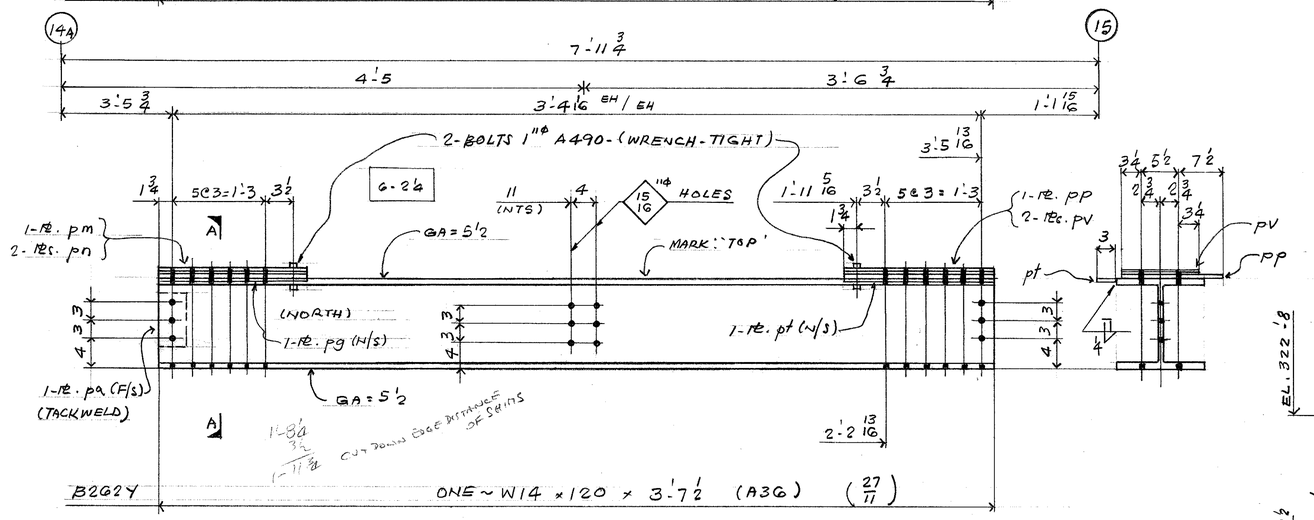
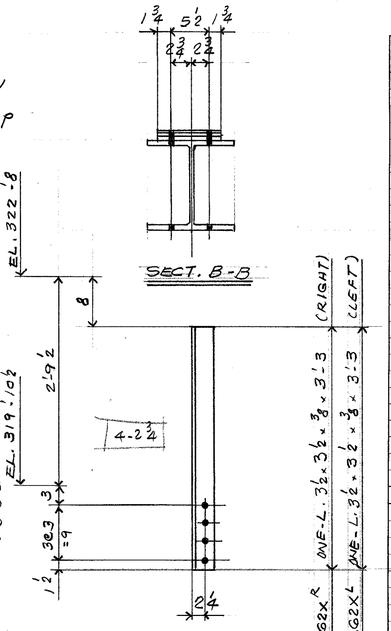
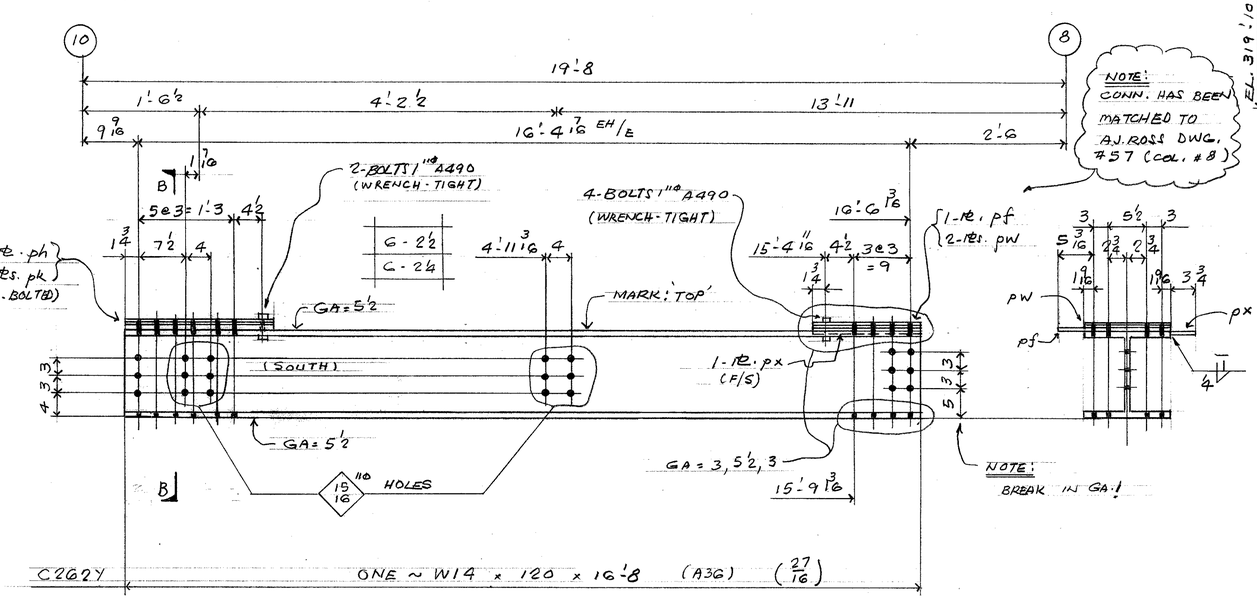



FIELD BOLTS

12-7/8"Φ (A325) x 2 1/4
14-7/8"Φ (A325) x 2 1/2
4-7/8"Φ (A325) x 2 3/4

DETAIL MATERIAL: G40.21 44W
WELD: E70XX ELECTRODES
PAINT: NONE
REF. DIAGS. E2 & E20

## BILL OF MATERIAL

| LINE | COOSDTE | COMM'X SHIP DIVN. | PIECE MARKS MAIN MAT'L. | PIECE MARKS DETAIL MAT'L. | NO. OF PIECES | MATERIAL DESCRIPTION PL | WIDTH Inch | WIDTH 16th | X PLATE ONLY | THK. In. | THK. 16th | GRADE CODE | DSOR | FINISHED LENGTH Feet | FINISHED LENGTH In. | FINISHED LENGTH 16th | PAGE | LINE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | | | FOO1 | | | | | | | | | | | | | | | |
| 02 | | | | PA | 1 | PI | 3 | 8 | X | 0 | 3 | 44W | | 0 | 9 | 8 | | | |
| 03 | | | | PB | 1 | PI | 21 | 8 | X | 0 | 6 | | | 1 | 11 | 0 | | | |
| 04 | | | | PC | 2 | PI | 14 | 10 | X | 0 | 2 | | | 1 | 11 | 0 | | | |
| 05 | | | | PG | 1 | PI | 6 | 0 | X | 0 | 4 | | | 1 | 11 | 0 | | | |
| 06 | | | | PH | 1 | PI | 9 | 0 | X | 0 | 6 | | | 1 | 11 | 0 | | | |
| 07 | | | | PK | 2 | PI | 9 | 0 | X | 0 | 2 | 44W | | 1 | 11 | 0 | | | |
| 08 | | | | | 4 | | HT | BOLT 1"Φ x 3 1/4 | | | | 490 | | | | | | | |
| 09 | | | | | 4 | | HT | WASHER 1"Φ | | | | 325 | | | | | | | |
| 10 | | | | | 1 | | IF | 1/4 | | | | | | 1 | 11 | 0 | | | |
| 11 | | | | | 1 | | STR | TG 1/4 | | | | | | 1 | 11 | 0 | | | |
| 12 | 0020 | A2G2Y | | | 1 | | W14 x 120 | | | | | A36 | | 6 | 3 | 4 | 27 | 12 | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | FOO1 | | | | | | | | | | | | | | | |
| 15 | | | | PA | 1 | PI | 3 | 8 | X | 0 | 3 | 44W | | 0 | 9 | 8 | | | |
| 16 | | | | PG | 1 | PI | 6 | 0 | X | 0 | 4 | | | 1 | 11 | 0 | | | |
| 17 | | | | PM | 1 | PI | 21 | 8 | X | 0 | 6 | | | 1 | 10 | 0 | | | |
| 18 | | | | PN | 2 | PI | 14 | 10 | X | 0 | 2 | | | 1 | 10 | 0 | | | |
| 19 | | | | PP | 1 | PI | 16 | 4 | X | 0 | 6 | | | 1 | 10 | 0 | | | |
| 20 | | | | PT | 1 | PI | 3 | 0 | X | 0 | 4 | | | 1 | 10 | 0 | | | |
| 21 | | | | PV | 2 | PI | 12 | 0 | X | 0 | 2 | 44W | | 1 | 10 | 0 | | | |
| 22 | | | | | 4 | | HT | BOLT 1"Φ x 3 1/4 | | | | 490 | | | | | | | |
| 23 | | | | | 4 | | HT | WASHER 1"Φ | | | | 325 | | | | | | | |
| 24 | | | | | 1 | | IF | 1/4 | | | | | | 3 | 9 | 0 | | | |
| 25 | | | | | 1 | | STR | TG 1/4 | | | | | | 3 | 9 | 0 | | | |
| 26 | | | TOTAL | | | | | | | | | | | TOTAL | | | 1 OF 2 | | |
| 01 | 0020 | B2G2Y | | | 1 | | W14 x 120 | | | | | A36 | | 3 | 7 | 8 | 27 | 11 | |
| 02 | | | | | | | | | | | | | | | | | | | |
| 03 | | | | FOO1 | | | | | | | | | | | | | | | |
| 04 | | | | PF | 1 | PI | 18 | 4 | X | 0 | 6 | 44W | | 1 | 5 | 0 | | | |
| 05 | | | | PH | 1 | PI | 9 | 0 | X | 0 | 6 | | | 1 | 11 | 0 | | | |
| 06 | | | | PK | 2 | PI | 9 | 0 | X | 0 | 2 | | | 1 | 11 | 0 | | | |
| 07 | | | | PX | 1 | PI | 3 | 12 | X | 0 | 4 | | | 1 | 5 | 0 | | | |
| 08 | | | | PN | 2 | PI | 14 | 10 | X | 0 | 2 | 44W | | 1 | 5 | 0 | | | |
| 09 | | | | | 6 | | HT | BOLT 1"Φ x 3 1/4 | | | | 490 | | | | | | | |
| 10 | | | | | 6 | | HT | WASHER 1"Φ | | | | 325 | | | | | | | |
| 11 | | | | | 1 | | IF | 1/4 | | | | | | 1 | 5 | 0 | | | |
| 12 | | | | | 1 | | STR | TG 1/4 | | | | | | 1 | 5 | 0 | | | |
| 13 | 0022 | C2G2Y | | | 1 | | W14 x 120 | | | | | A36 | | 16 | 8 | 0 | 27 | 16 | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | FOO1 | | | | | | | | | | | | | | | |
| 16 | | | | PY | 2 | PI | 3 | 0 | X | 0 | 2 | 44W | | 1 | 0 | 0 | | | |
| 17 | 0009 | D2G2 | | | 1 | | W18 x 35 | | | | | A572 GR 50 | | 5 | 3 | 0 | 21 | 22 | |
| 18 | | | | | | | | | | | | | | | | | | | |
| 19 | | | | MARK | | | | | | | | | | | | | | | |
| 20 | 0009 | G262XR | | | 1 | | L3 1/2 x 3 1/2 x 3/8 | | | | | 44W | | 3 | 3 | 0 | | | |
| 21 | 0009 | G262XL | | | 1 | | L3 1/2 x 3 1/2 x 3/8 | | | | | 44W | | 3 | 3 | 0 | | | |
| 22 | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | |
| 26 | | | TOTAL | | 70 | | | | | | | | | TOTAL | | | 63 | | MARVBS. 2 OF 2 |

| REV. | | | |
|---|---|---|---|
| 1 | DATE | BY | |
| 2 | DATE | BY | |
| 3 | DATE | BY | |

| | | | |
|---|---|---|---|
| MADE 27 | EJF | DATE DEC. 1984 | SQUAD FR |
| CHK'D. 28 | WRD | DATE FEB/85 | |

SPEC. A572 GR. 50 U/N
HOLES 1 1/16" U/N
FINISH

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

PROJECT: 7 WORLD TRADE CENTER
DETAIL: 2ND FLOOR BEAM & WIND GIRDER

CONTRACT 84-15
DWG.No. 262