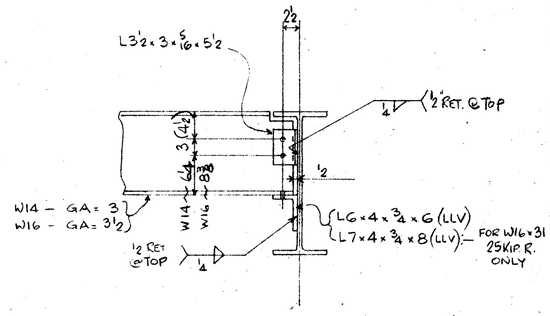
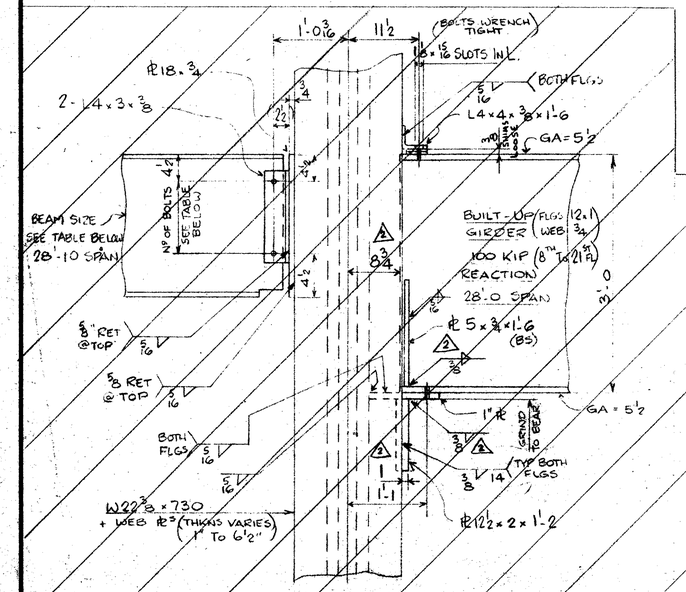


BEAM TO BEAM SEAT CONN.

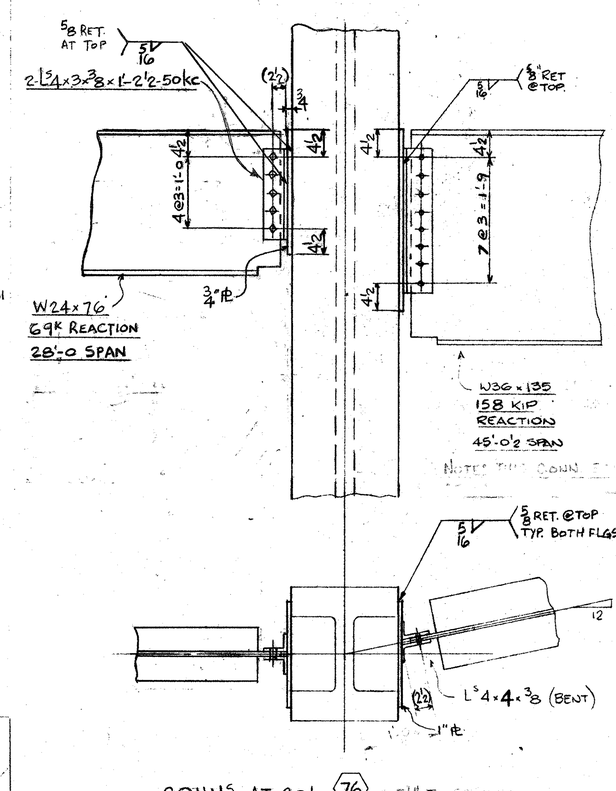
USE FOR THE FOLLOWING :-

	BEAM SIZE	SPAN	REACTION KIPS	CONN (KIP) CAPACITY
	W16's			cl.
CORE AREA NORTH END ONLY	W16 × 31	30'-9½	25	27
CORE AREA BOTH ENDS	W14 × 22	30'-9½	16	21.8
	W14 × 22	28'-6	22	
CORE AREA NORTH END ONLY	W14 × 22	27'-4¾	18	
CORE AREA SOUTH END ONLY	W14 × 22	24'-0 1/16 TO 25'-9 7/8	20	
CORE AREA SOUTH END ONLY	W14 × 22	22'-1 11/16	21.6	21.8
CORE AREA NORTH END ONLY	W14 × 22	28'-10 5/16	17	21.8

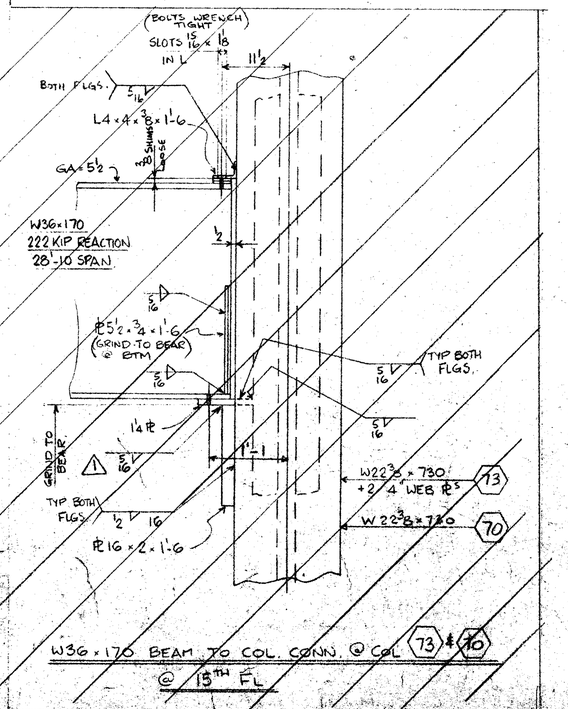


BUILT-UP GDR & BEAM CONNS @ COL (73)

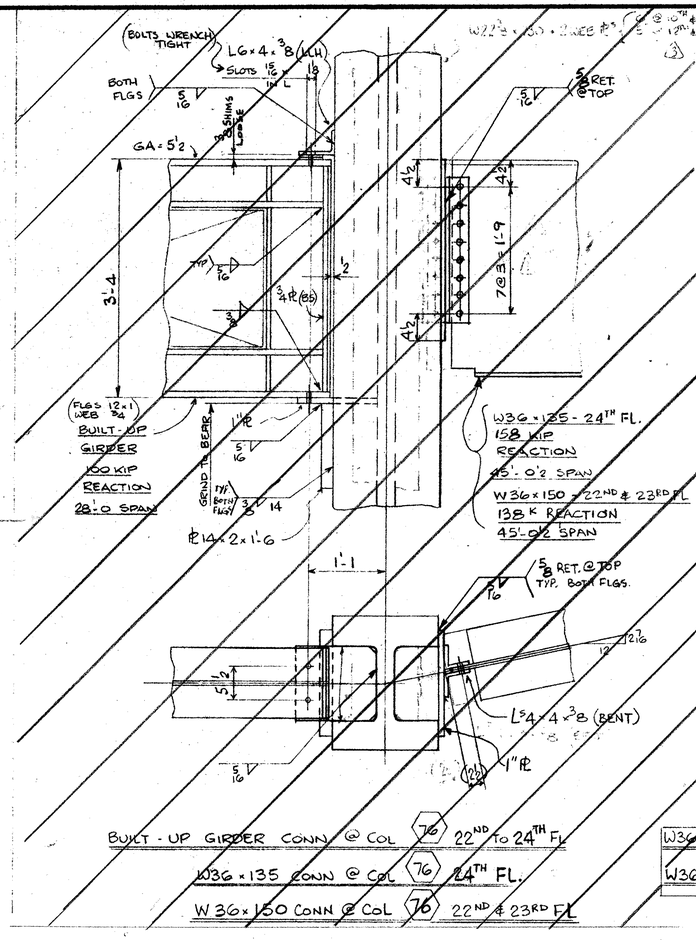
BEAM SIZE	FLOOR	REACTION KIPS	Nº OF BOLTS
W24 × 76	8TH TO 14TH	77	5
W30 × 99	16TH	103	6
W27 × 84	17TH TO 20TH	81	5
W27 × 94	21ST	93	5



CONNS AT COL. (76) 15TH TO 37TH FL



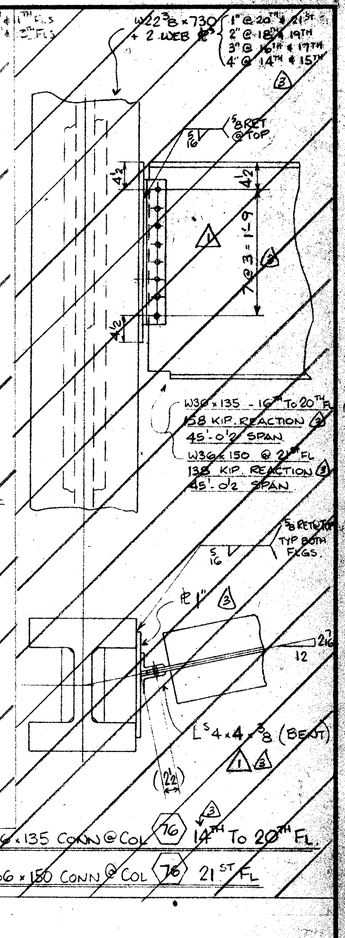
W36 × 170 BEAM TO COL. CONN @ COL (73) & (70) @ 15TH FL



BUILT-UP GIRDER CONN @ COL (76) 22ND TO 24TH FL

W36 × 135 CONN @ COL (76) 24TH FL.

W36 × 150 CONN @ COL (76) 22ND & 23RD FL



W36 × 135 CONN @ COL (76) 14TH TO 20TH FL.

W36 × 150 CONN @ COL (76) 21ST FL

ALL BEAMS & GIRDERS A572 GR50
ALL DETAIL MATL G40.21 - 44W
USE E70 XX ELECTRODES
ALL BOLTS ⅞ ϕ HT A325
FRICTION VALUE - 10.5 KIPS/BOLT.
CONNS ARE FOR 38TH TO 45TH FL ONLY

DIMNS IN BRACKETS ARE BASED ON ACCURATE BM. OR COLUMN SIZE

SEE DWG. 9171 FOR LOCATIONS

REVISED			
DATE	BY	OPEN HOLES	15/16 ϕ 4½ IN
DATE	BY	PAINT	
DATE	BY	ERECTED BY	
DATE	BY	FIELD PAINT	
DATE	BY	INSPECTION	

38TH TO 45TH FL CORE AREA
BEAM TO BEAM SEATS, BEAM TO COL CONNS
7 WORLD TRADE CENTER
TISHMAN CONSTRUCTION CUSTOMER
EMERY ROTH & SONS P.C. ARCHITECT
IRWIN G CANTOR P.C. ENGINEER

FRANKEL STEEL LIMITED
220 ATTWELL DRIVE UNIT 1 REXDALE, ONTARIO M9W 5R8
SQUAD FR
MADE BY BF DATE JULY 85 CHKD. BY ✓ DATE
CONT. No. 84-15 SHEET 9175