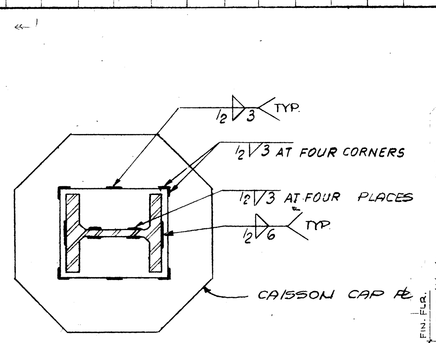
COLUMN No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	14A	15	16	17	17A	18	18A	19	19A	20	21	21A	22	22A	23	23A	24	24A	25	25A	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	44A	45	45A	46	46A	47	47A	48	48A	49	49A	50	50A	51	51A	52	52A	53	53A	54	54A	55	55A	56	57	57A	58	58A	58B	58C	59	59A	60
BASE PL. (FIRST DIMENSION PARALLEL TO WEB)	25x21x1							28x28x⅝				25x28x⅞				25x28x1¼	25x20x⅞		24x20x1		24x20x1		24x20x⅞	24x20x⅞		24x20x⅞		24x20x⅞		24x20x1		24x20x¾		25x20x1		25x20x1¼		25x28x1¼		25x28x1¼		25x28x1¼		25x28x1¼		25x20x1		25x20x½		25x20x½																												25x20x1		25x20x1½		22x20x1¼		25x20x1¼		22x20x1¼		25x20x1			
EL. 30'-3 DIMENSION TO BOTTOM OF BASE & FROM REFERENCE PL.	6'-0" (25)							8'-6" (110)				4'-8"				3'-1" 2'-5"	2'-3" (60)		2303 2560		2525 2526		2479 2445	2415 2415		2391 2391		2367 2367		2343 2343		2319 2319		2295 2295		2271 2271		2247 2247		2223 2223		2199 2199		2175 2175		2151 2151		2127 2127		2103 2103		2079 2079																												3087 3087		2414 2414	2328 2328	2242 2242		2156 2156		2070 2070		1984 1984			
BASE PLATE	PL 1½"x 8							PL 2½"x 8				PL 1½"x 8				PL 1½"x 8	PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8	PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8																												PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8		PL 1½"x 8			
7th FL	W14x730+2 WEB 2 web PL 12½"x 1" A36							W14x730+2 SIDE PL 26"x 4"* COL"B" DWG				W14x730+2 WEB PL 12½"x 1" A36				W14x730+2 WEB PL 12½"x 1½" A36	W14x730+2 WEB PL 12½"x 1½" A36		W14x665 A167		W14x550 A172		W14x550 A172	W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167																												W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167			
6th FL	TRUSS SEE DWG. S-20							TRUSS SEE DWG. S-20				TRUSS SEE DWG. S-20				TRUSS SEE DWG. S-20	TRUSS SEE DWG. S-20		W14x665 A171		W14x550 A182		W14x550 A182	W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20																												TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20			
5th FL	TRUSS SEE DWG. S-20							TRUSS SEE DWG. S-20				TRUSS SEE DWG. S-20				TRUSS SEE DWG. S-20	TRUSS SEE DWG. S-20		W14x665 A171		W14x550 A182		W14x550 A182	W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20																												TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20		TRUSS SEE DWG. S-20			
4th FL	14'-0"							14'-0"				14'-0"				14'-0"	14'-0"		W14x730+2 WEB #'s 12½"x 1" A167		W14x550 A182		W14x550 A182	W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167																												W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167			
3rd FL	14'-0"							14'-0"				14'-0"				14'-0"	14'-0"		W14x730+2 WEB #'s 12½"x 1" A167		W14x550 A182		W14x550 A182	W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167																												W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167			
2nd FL	14'-0"							14'-0"				14'-0"				14'-0"	14'-0"		W14x730+2 SIDE PL 12½"x 1" A36		W14x550 A182		W14x550 A182	W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x730+2 SIDE PL 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167																												W14x730+2 SIDE PL 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 SIDE #'s 26"x 4"* A167			
1st FL	11'-1½"							11'-1½"				11'-1½"				11'-1½"	11'-1½"		W14x730+2 WEB PL 12½"x 1" A36		W14x550 A182		W14x550 A182	W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x550 A182		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167																												W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167		W14x730+2 WEB #'s 12½"x 1" A167		W14x730+2 SIDE #'s 26"x 4"* A167			
BASEMENT	W14x730+2 WEB 2 web PL 12½"x 1" A36							W14x730+2 SIDE PL 26"x 4"* COL"B" DWG				W14x730+2 WEB PL 12½"x 1" A36				W14x730+2 WEB PL 12½"x 1½" A36	W14x730+2 WEB PL 12½"x 1½" A36		W14x665 A166		W14x550 A172		W14x550 A172	W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167																												W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167			
1st BASEMENT	W14x730+2 WEB 2 web PL 12½"x 1" A36							W14x730+2 SIDE PL 26"x 4"* COL"B" DWG				W14x730+2 WEB PL 12½"x 1" A36				W14x730+2 WEB PL 12½"x 1½" A36	W14x730+2 WEB PL 12½"x 1½" A36		W14x665 A166		W14x550 A172		W14x550 A172	W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x550 A172		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167																												W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167		W14x730+2 WEB PL 12½"x 1" A167		W14x730+2 SIDE PL 26"x 4"* A167			

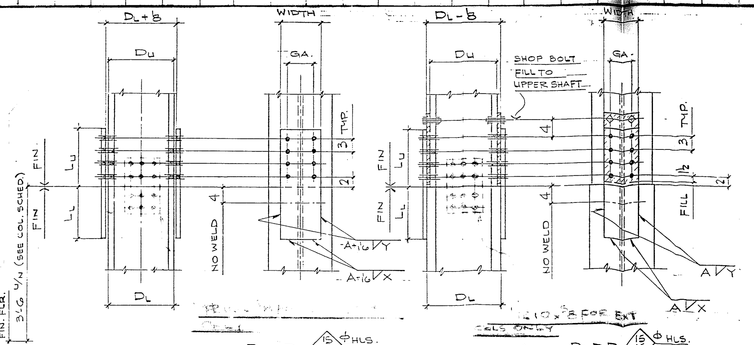
NOTES:

1. ALL COLUMNS AND REINFORCING PLATES TO BE A-36 STEEL EXCEPT FOR COLUMNS WITH * WHICH ARE TO BE A-572 GR 50. FOR COLUMNS WITH * IF THE REINFORCING PLATES ARE OVER 2" THICK THEY SHALL BE A-588 GR 50. IF THEY ARE OVER 4" THICK THEY SHALL BE A-572 GR 42 IF THEY ARE OVER 6" THICK THEY SHALL BE A-588 GR 42.
2. LOADS SHOWN ARE TOTAL LOADS INCLUDING THOSE OF CON EDISON SUBSTATION. CON EDISON LOADS ARE ALSO SHOWN SEPARATELY IN PARENTHESES.
3. WEB PLATES FOR COLUMNS 25A, 44A & 55A SHALL TERMINATE 3" ABOVE TOP OF BASE PLATE.
4. SEE DWG. E117A FOR BALANCE OF INFORMATION.
5. FLOOR TO FLOOR DIMENSIONS ARE BASE ON TOP OF SLAB ELEVATIONS.
6. ALL BASE PLATES TO BE A36 MATERIAL
7. ** INDICATES COL. REINFORCING PL TO BE A588 GR 42



BASE PLATE DETAIL

COLUMNS 8, 16, 17A, 18A, 19A, 20, 21A, 22A, 23A, 24A, 25A, 45A, 46A, 55A, 57A, 58B, 59A, 61A.
SEE DWG. FS-3 FOR COLUMNS 1, 15, 44A, 81.
SEE DWG. FS-5 FOR COLUMNS 12, 28, 32, 38, 42, 60, 62, 63, 65, 66, 68, 69, 71, 72, 74, 75, 79, 80.
SEE DWG. FS-2 FOR COLUMN 78A.



COLUMN SIZE	BEAM WIDTH	BEAM THK.	PLATE LENGTH Lu	PLATE LENGTH Ll	FASTENERS NO OF BOLTS	FASTENERS DIA.	WELDS SIZE	WELDS LENGTH VERT.	WELDS LENGTH HOR.
W14 x 455 & OVER	16½	⅞	13	13	4	1½	½	5	7
W14 x 311 TO 426	12⅞	⅝	13	11	4	1¼	½	4	6
W14 x 211 TO 283	12⅞	½	13	11	4	1¼	⅜	4	6
W14 x 90 TO 193	12⅝	⅝	10	11	3	1¼	⅜	4	6
W14 x 61 TO 82	8⅛	⅝	10	11	3	1¼	⅜	4	6
W14 x 43 TO 53	8⅛	½	10	10	3	1¼	⅜	4	6

SELECT TO SUIT LOWER SHAFT SIZE — SELECT TO SUIT UPPER SHAFT SIZE

FIELD BOLTED SPLICES

"SPLICE NOTES"

(1) TO BE USED FOR PERIM. & CORE COL'S UP TO 5TH FLR SPLICES UNLESS OTHERWISE SHOWN OR NOTED ON E117A
(2) TO BE USED FOR CORE COL. 7TH FLR. SPLICES AND UP UNLESS OTHERWISE SHOWN ON E118A

NOTE: WHERE DIAG" INDICATE UFLIFT SPLICES TO BE MODIFIED TO SUIT LOAD

"PERIMETER COL'S"
UP TO 5TH FLR SPLICES SEE "SPLICE NOTES"
7TH FLR SPLICES & ABOVE TO BE TYPES B-10K/N

"CORE COL'S"
SEE SPLICE NOTES

SEE GIRDER DETAILS ON E123

SEE DETS. H&G ON DWG E119 & DET H&G-27 ON E123

FOR GENERAL NOTES SEE DIAG. E120
WORK THIS DIAG. WITH E117A & E117B

NO.	DATE	BY	DESCRIPTION OF REVISION
A	MAY 1/85	GM	GENERAL REVISION
B	APR 24/85	WJF	COLUMN SPLICE REFERENCE ADDED + REINFORCING PL* + NOTES
C	MAR 28/85	JS	DELETE DET. DELETE SPLICE REFS. REV. NOTE
D	APR 11/85	BF	SPLICE FOR COLS WITH WEB PL's REV'D
E	APR. 16/85	AS	MARKS ADDED
F	JAN 22/85		COL"B" SPLICE LVL ABOVE 3RD FLR REV'D TO 54"
G	DEC 12/84	BTB	CUSTOMERS GENERAL REVISION X2
H	NOV 30/84	WD	DIMS FROM GTH TO 7TH FL REVISED
J	-	-	DIMS FROM 1ST & 3RD FLOOR REVISED

July 5/85 E
July 2/85 E
May 22/85 E
May 6/85 E
Apr 9/85 E

COLUMN SCHEDULE NO. 1	FRANKEL STEEL LIMITED
7 WORLD TRADE CENTER	220 ATTWELL DRIVE UNIT 1 REXDALE, ONTARIO M9W 5B2
TISHMAN CONSTRUCTION — CUSTOMER	SQUAD F.R
EMERY ROTH & SONS P.C. — ARCHITECT	MADE BY ____ DATE ____ CHKD. BY ____ DATE ____
IRWIN G. CANTOR P.C. — ENGINEER	CONT. No. 84-15 SHEET E117

CUSTOMER'S DRAWING S-17