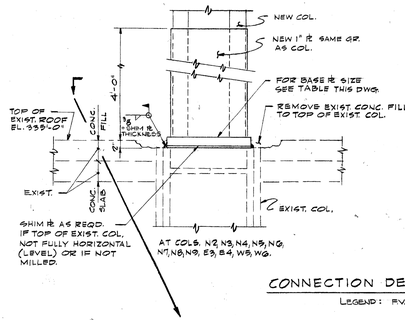
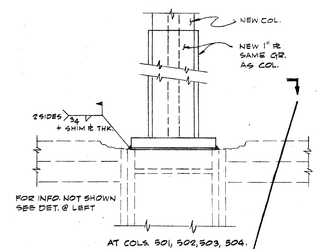
COL. NO. / FLOOR	61	61A	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	78A	79	80	81	E_3	E_4
23RD FL.																									
22ND FL. 14'-9"	x 500*		x 311*	x 342*	x 455*	x 176*	x 283*	x 500*	x 283*	x 370*	x 605*	x 426*	x 455*	x 730*	x 650*	x 550*	x 730*	x 500*	x 500*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 730*	x 665*
21ST FL. 14'-8"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	W14
20TH FL. 13'-9"	x 550*		x 342*	x 370*	x 500*	x 176*	x 311*	x 550*	x 283*	x 399*	x 605*	x 426*	x 500*	x 730*	x 650*	x 550*	x 730*	x 550*	x 550*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 665*	x 665*
19TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	W14
18TH FL. 12'-9"	x 605*		x 370*	x 399*	x 550*	x 193*	x 342*	x 605*	x 311*	x 426*	x 665*	x 455*	x 550*	x 730*	x 605*	x 605*	W14	x 605*	x 605*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 730*	
17TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	
16TH FL. 12'-9"	x 605*		x 395*	x 426*	x 550*	x 193*	x 370*	x 605*	x 311*	x 455*	x 665*	x 550*	x 605*	x 730*	x 605*	x 605*	W14	x 605*	x 605*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 730*	
15TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	
14TH FL. 12'-9"	x 665*		x 426*	x 426*	x 605*	x 211*	x 398*	x 665*	x 342*	x 500*	x 730*	x 500*	x 605*	x 730*	x 665*	x 665*	W14	x 665*	x 665*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 665*	
13TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	
12TH FL. 12'-9"	x 665*		x 426*	x 455*	x 605*	x 211*	x 398*	x 665*	x 342*	x 500*	x 730*	x 500*	x 605*	x 730*	x 665*	x 665*	W14	x 665*	x 665*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 665*	
11TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	
10TH FL. 12'-9"	x 730*		x 455*	x 455*	x 665*	x 233*	x 426*	x 730*	x 370*	x 550*	x 730*	x 500*	x 665*	x 730*	x 730*	x 730*	W14	x 730*	x 730*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 730*	
9TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	
8TH FL. 12'-9"	x 730*		x 455*	x 500*	x 665*	x 233*	x 426*	x 730*	x 370*	x 550*	x 730*	x 500*	x 665*	x 730*	x 730*	x 730*	W14	x 730*	x 730*	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	x 730*	
7TH FL. 12'-9"	W14		W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14	W14 + 730 + 2 SIDE 26+3*		W14 + 730 + 2 SIDE 22+1*	W14 + 730 + 2 WEB 12½ x 8	W14	
6TH FL. 13'-3"	SEE TRUSS DWG. 4-29		SEE TRUSS DWG. 4-29	W14 x 500*	W14 x 730*	W14 x 665	W14 x 730	W14 x 730*	W14 x 730	W14 x 730	W14 x 730*	W14 x 665*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 + 730 + 2 WEB 12½ x 8		W14 + 730 + 2 WEB 12½ x 8	W14 + 730 + 2 WEB 12½ x 8	W14 x 730*	W14 x 730*
5TH FL. 13'-3"	SEE TRUSS DWG. 4-29		SEE TRUSS DWG. 4-29	W14 x 500*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 665*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 + 730 + 2 WEB 12½ x 8		W14 + 730 + 2 WEB 12½ x 8	W14 + 730 + 2 WEB 12½ x 8	W14 x 730*	W14 x 730*
4TH FL. 14'-3"	W14 x 730*		W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730	W14 x 730*	W14 x 730	W14 x 730	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 + 730 + 2 WEB 12½ x 8		W14 + 730 + 2 WEB 12½ x 8	W14 + 730 + 2 WEB 12½ x 8	W14 x 605*	W14 x 342*
3RD FL. 14'-0"	W14 x 730*		W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 + 730 + 2 WEB 12½ x 8		W14 + 730 + 2 WEB 12½ x 8	W14 + 730 + 2 WEB 12½ x 8	W14 x 605*	W14 x 342*
2ND FL. 14'-1½"	W14 x 730*	EXIST. COL.	W14 x 730*	W14 x 605*	EXIST. COL.	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 x 730*	W14 + 730 + 2 WEB 12½ x 8		W14 + 730 + 2 WEB 12½ x 8	W14 + 730 + 2 WEB 12½ x 8	EXIST. COL.	EXIST. COL.
1ST FL. 11'-1½"	EL. 30'-1"	1168 (948)	5074	1840	4108 (699)	5798	1873	3501	9826 (731)	2855	4530	9804 (599)	4000	4034	2965	5472	5942	3075	9879	9862	731	4841	7541 (968)		
(DIMENSION TO BOTTOM OF BASE PLATE FROM REFERENCE EL.)		W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8	W14 x 665		W14 x 730		W14 x 730 + 2 WEB 12½ x 8		W14 x 730 + 2 WEB 12½ x 8		W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8				W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8	W14 x 730 + 2 WEB 12½ x 8		
FIRST DIMENSION PARALLEL TO WEB) BASE PLATE		1'-8½"	1'-10½"	2'-0"	2'-3"	2'-5½"	2'-5½"	2'-5½"	2'-7½"	2'-9"	2'-11"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	SEE DET. DWG. 5-43	SEE DET. DWG. 5-43	3'-0"	3'-0"	3'-0"	3'-0"	2'-5½"	2'-5½"
COLUMN NO.	61	61A	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	78A	79	80	81	E_3	E_4

TENSION AT COLUMN SPLICES (*)		
FL. / COL.	3RD	5TH
62	1000	1100

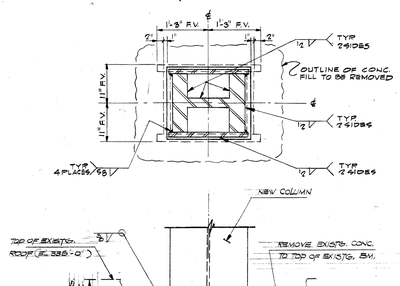
FOR NOTES & DETAILS NOT SHOWN SEE DWG. S-17

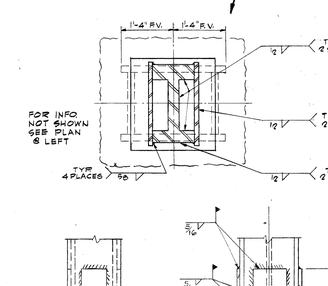


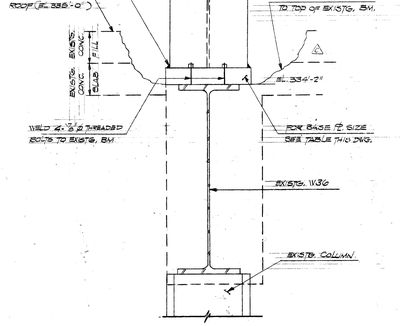


CONNECTION DETS. AT EXIST. COLS.

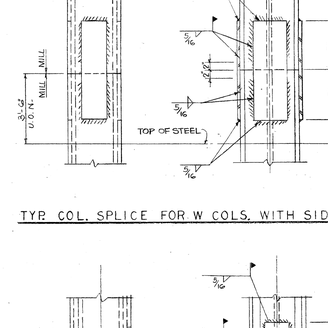
LEGEND: F.V. = FIELD VERIFY



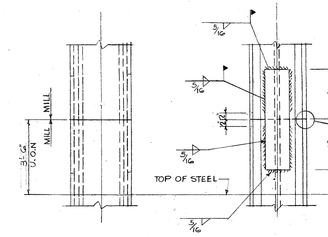




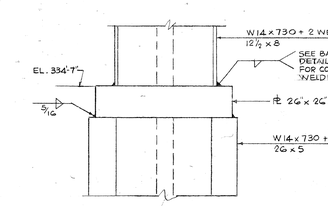
CONNECTION DETAIL AT EXISTING COLUMN 603 △2



TYP. COL. SPLICE FOR W COLS. WITH SIDE PLATE



TYP. COLUMN SPLICE FOR COLUMN 25A △2

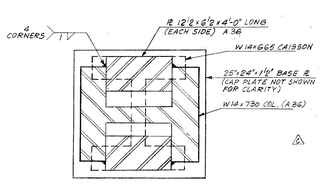


COL. 80 SPLICE @ 3RD FL

BASE PLATE SIZES AT CONNECTION TO EXISTING COLUMNS		
EXIST. COL. #	NEW COL. #	SIZE (FIRST DIM. PARALLEL TO NEW COLUMN WEB)
N9	47A	24 x 21 x 1
N8	48A	24 x 21 x 1
N7	49A	24 x 21 x 1
N6	50A	24 x 21 x 1
N5	51A	24 x 21 x 1
N4	52A	24 x 21 x 1
N3	53A	24 x 21 x 1
N2	54A	24 x 21 x 1
W5	58A	24 x 21 x 2¼
W6	58C	24 x 21 x 1
501	64	26 x 26 x 1
502	67	26 x 26 x 1
503	70	26 x 26 x 1
504	73	26 x 26 x 1
E3	E3	24 x 21 x 1
E4	E4	24 x 21 x 1½
603	61	21 x 16 x 3¼

△2

△1 ISSUED TO PORT AUTHORITY 1-15-85
△2 RELEASED TO FRANKEL STEEL 11-30-84
△3 RELEASED FOR INFORMATION 12-24-84
△4 RELEASED FRANKEL STEEL 2-21-85 FOR COLS @ 23RD FLOOR



△2

COL. 46A AT CAISSON

△2 5-10-85	ISSUED TO PORT AUTHORITY
△1 8-7-84	ISSUED FOR FOUNDATION STEEL CONSTRUCTION ONLY
DATE	REVISIONS

COLUMN SCHEDULE NO. 2

7 WORLD TRADE CENTER
47 STORY OFFICE BUILDING
BOUNDED BY VESEY STREET AND BARCLAY STREET WASHINGTON STREET AND WEST BROADWAY NEW YORK NEW YORK

EMERY ROTH & SONS P.C.
ARCHITECTS
845 THIRD AVENUE NEW YORK, N.Y. 10022

THE OFFICE OF IRWIN G. CANTOR P.C.
STRUCTURAL ENGINEERS
919 THIRD AVENUE NEW YORK, N.Y. 10022

SYSKA & HENNESSY
ENGINEERS
11 WEST 42ND STREET NEW YORK, N.Y. 10036

DATE: SCALE:

DWG. S-17A