

WTC

Drawing Book 2

**2-A1-1 thru 2-A1-13,
2-B1-1 thru 2-B1-13,
2-AB2-1 thru 2-AB2-36,
SA-125 thru SA-138,
SB-125 through SB-128**

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER TITLE EXTERIOR WALL - TREE - SCHEDULE NOTES DATE 7-25-67

REVISIONS

1-3-69

2-3-69

3-3-69

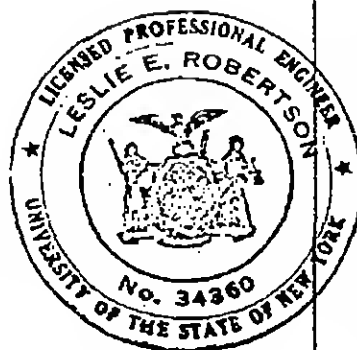
4-1-69

Printed 5-1-69

	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL, SPLICE			
PNL NO	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3	
(1)	(2)	(3)	(4)	(3)	(5)	(2)	(3)	(4)	(3)	(5)	(2)	(3)	(4)	(3)	(5)	(6)	(6)	(6)	
PNL NO	LEVEL C COL.1 TYPE FYC1 FYC2					LEVEL C COL.2 TYPE FYC1 FYC2					LEVEL C COL.3 TYPE FYC1 FYC2								
(1)	(7) (3) (3)					(7) (3) (3)					(7) (3) (3)								
	LEVEL D COLUMN 1					LEVEL D COLUMN 2					LEVEL D COLUMN 3								
PNL NO	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2		
(1)	(8)	(3)	(3)	(3)	(3)	(9)	(8)	(3)	(3)	(3)	(9)	(8)	(3)	(3)	(3)	(3)	(9)		
PNL NO	LEVEL E TYPE FYE1 FYE2 FYE3 FYE4 FYE5 FYE6 FYE7 FYE8 WELD 5 WELD 6 WELD 7													LEVEL F TYPE FYF1 FYF2 LCS					
(1)	(10) (3) (3) (3) (3) (3) (3) (3) (3) (3) (11) (11) (11)													(12) (3) (3) (13)					
	SPANDREL LEVEL B SEAT DETAILS					SPANDREL LEVEL D SEAT DETAILS					SEAT DETAILS								
PNL NO	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYD7	TB8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
(1)	(14)	(3)	(15)	(16)	(17)	(17)	(17)	(18)	(3)	(18)	(3)	(16)	(3)	(19)	(20)	(21)	(17)	(17)	(17)

- (1) PANEL NUMBER - IDENTIFIED BY COLUMN NUMBER FOR CENTER COLUMN OF PANEL AND TOWER DESIGNATION A OR B
(NOTE) PANELS ARE SHOWN FROM INSIDE OF BUILDING LOOKING OUT. FOR PANEL ELEVATION SEE 2-AB2-2
SCHEDULED COLUMN 1 IS THE LEFT COLUMN, COLUMN 2 THE MIDDLE COLUMN AND COLUMN 3 THE RIGHT COLUMN.
- (2) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-4 THRU 6.
(3) REQUIRED YIELD STRENGTH FOR INDICATED PLATE (KSI)
(4) REQUIRED YIELD STRENGTH FOR PLATE B2 AND B3 (KSI)
(5) WELD SIZE (INCHES) SEE 2-AB2-4 FOR LOCATION
(6) DETAIL NUMBER FOR UPPER COLUMN SPLICE - SEE 2-AB2-25 THRU 27
(7) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-7
(8) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-8 THRU 11
(9) WELD SIZE (INCHES) SEE 2-AB2-8 FOR LOCATION
(10) ASSEMBLY TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-12 THRU 15
(11) WELD SIZE (INCHES) SEE 2-AB2-13 FOR LOCATION
(12) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-16
(13) DETAIL NUMBER FOR LOWER COLUMN SPLICE - SEE 2-AB2-29 AND 30
(14) THICKNESS OF PLATE B4 (INCHES) SEE 2-AB2-4 FOR DETAILS
(15) DETAIL NUMBER FOR LEFT SPANDREL CONNECTION - SEE 2-AB2-23
(16) DETAIL NUMBER FOR RIGHT SPANDREL CONNECTION - SEE 2-AB2-23
(17) DETAIL NUMBER FOR BEAM AND BRACING SEAT DETAILS - SEE 2-AB2-31 THRU 36
(18) THICKNESS OF PLATE INDICATED - SEE 2-AB2- 8 THRU 11 FOR DETAILS
(19) WELD SIZE (INCHES) SEE 2-AB2- 8 THRU 11 FOR LOCATION
(20) DETAIL NUMBER FOR LEFT SPANDREL CONNECTION - SEE 2-AB2-24
(21) DETAIL NUMBER FOR RIGHT SPANDREL CONNECTION - SEE 2-AB2-24

WTCT-12-LEPA



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	EXTERIOR WALL - TREE - SCHEDULE WALL 100	12-18-67

REVISIONS

PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
103A	B06	50	50	50	1/2	B08	42	42	42	1/2	B11	42	42	42	1/2	102	102	103
106A	B12	36	36	36	1/2	B13	36	36	36	1/2	B14	36	36	36	1/2	103	103	103
109A	B15	36	36	36	1/2	B16	36	36	36	1/2	B17	36	36	36	1/2	103	103	103
112A	B17	36	36	36	1/2	B17	36	36	36	1/2	B17	36	36	36	1/2	103	103	103
115A	B17	36	36	36	1/2	B17	36	36	36	1/2	B17	36	36	36	1/2	103	103	103
118A	B17	36	36	36	1/2	B17	36	36	36	1/2	B17	36	36	36	1/2	103	103	103

PNL NO	LEVEL C COL.1	TYPE	FYC1	FYC2	LEVEL C COL.2	TYPE	FYC1	FYC2	LEVEL C COL.3	TYPE	FYC1	FYC2
103A		C06	50	50		C08	42	42		C11	42	42
106A		C12	36	36		C13	36	36		C14	36	36
109A		C15	36	36		C16	36	36		C17	36	36
112A		C17	36	36		C17	36	36		C17	36	36
115A		C17	36	36		C17	36	36		C17	36	36
118A		C17	36	36		C17	36	36		C17	36	36

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
103A	006	50	50	36	36	3/8	D06	45	45	36	3/8	D06	42	42	36	36	3/8
106A	007	36	36	36	36	3/8	D07	36	36	36	3/8	D07	36	36	36	36	3/8
109A	D08	36	36	36	36	1/2	D08	36	36	36	1/2	D08	36	36	36	36	1/2
112A	009	36	36	36	36	1/2	D09	36	36	36	1/2	009	36	36	36	36	1/2
115A	D09	36	36	36	36	1/2	D09	36	36	36	1/2	009	36	36	36	36	1/2
118A	D09	36	36	36	36	1/2	D09	36	36	36	1/2	D09	36	36	36	36	1/2

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS
103A		E09	45	45	36	36	45	45	42	36	3/8	3/8	3/8		F09	45	45	702
106A		E13	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F13	42	42	703
109A		E16	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F16	42	42	704
112A		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
115A		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
118A		E17	36	36	36	36	36	36	36	36	3/8	3/8	3/8		F17	36	36	704

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS			
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
103A	1-3/8	36	B13	B12	94	95	98	1-1/2	42	1/2	36	3/4	36	3/8	D13	D12	76	74	76
106A	1-3/8	36	B12	B12	90	97	91	1-1/2	42	5/8	36	3/4	36	3/8	D12	D13	70	76	71
109A	1-3/8	36	B12	B12	98	91	98	1-1/2	42	3/4	36	7/8	36	3/8	D13	D13	76	71	76
112A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D12	71	76	71
115A	1-3/8	36	B12	B12	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76
118A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER TITLE EXTERIOR WALL - TREE - SCHEDULE WALL 100 DATE 7-28-67

REVISIONS

LEVEL B COLUMN 1						LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE			
PNL NO	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3	
121A	B17	36	36	36	1/2	B17	36	36	36	1/2	B17	36	36	36	1/2	103	103	103	
124A	B17	36	36	36	1/2	B17	36	36	36	1/2	B17	36	36	36	1/2	103	103	103	
127A	B17	36	36	36	1/2	B17	36	36	36	1/2	B18	36	36	36	1/2	103	103	103	
130A	B18	36	36	36	1/2	B19	36	36	36	1/2	B19	36	36	36	1/2	103	103	103	
133A	B19	36	36	36	1/2	B19	36	36	36	1/2	B19	36	36	36	1/2	103	103	103	
136A	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103	
139A	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103	
PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3								
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2						
121A		C17	36	36			C17	36	36			C17	36	36					
124A		C17	36	36			C17	36	36			C17	36	36					
127A		C17	36	36			C17	36	36			C18	36	36					
130A		C18	36	36			C19	36	36			C19	36	36					
133A		C19	36	36			C19	36	36			C19	36	36					
136A		C19	42	42			C19	42	42			C19	42	42					
139A		C19	42	42			C19	42	42			C19	42	42					
LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3								
PNL NO	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2		
121A	D09	36	36	36	36	1/2	D09	36	36	36	1/2	D09	36	36	36	36	1/2		
124A	D09	36	36	36	36	1/2	D09	36	36	36	1/2	D09	36	36	36	36	1/2		
127A	D10	36	36	36	36	1/2	D10	36	36	36	1/2	D10	36	36	36	36	1/2		
130A	D11	36	36	36	36	1/2	D11	36	36	36	1/2	D11	36	36	36	36	1/2		
133A	D11	36	36	36	36	1/2	D11	36	36	36	1/2	D11	36	36	36	36	1/2		
136A	D11	42	42	36	36	1/2	D11	42	42	36	1/2	D11	42	42	36	36	1/2		
139A	D11	42	42	36	36	1/2	D11	42	42	36	1/2	D11	42	42	36	36	1/2		
PNL NO	LEVEL E													LEVEL F					
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7		TYPE	FYF1	FYF2	LCS		
121A	E17	36	36	36	36	36	36	36	36	3/8	3/8	3/8		F17	36	36	704		
124A	E17	36	36	36	36	36	36	36	36	3/8	3/8	3/8		F17	36	36	704		
127A	E18	36	36	36	36	36	36	36	36	3/8	3/8	3/8		F18	36	36	704		
130A	E19	36	36	36	36	36	36	36	36	3/8	3/8	3/8		F19	36	36	704		
133A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F19	42	42	704		
136A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F19	42	42	704		
139A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F19	42	42	704		
SPANDREL LEVEL B SEAT DETAILS							SPANDREL LEVEL D SEAT DETAILS												
PNL NO	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYD7	TB8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
121A	1-3/8	36	B12	B12	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76
124A	1-3/8	36	B12	B12	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71
127A	1-3/8	36	B12	B12	97	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76
130A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	70
133A	1-3/8	36	B12	B12	98	91	97	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	70	76
136A	1-3/8	36	B12	B12	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	70
139A	1-3/8	36	B12	B12	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	70	76



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	EXTERIOR WALL - TREE - SCHEDULE WALL 100	12-18-67

REVISIONS

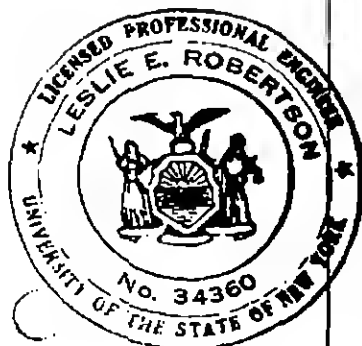
PNL NO	LEVEL 8 COLUMN 1					LEVEL 8 COLUMN 2					LEVEL 8 COLUMN 3					UPPER COL. SPLICE		
	TYPE	FY81	FYB2	FY86	WELD 3	TYPE	FY81	FYB2	FY86	WELD 3	TYPE	FY81	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
142A	818	42	42	42	1/2	818	42	42	42	1/2	817	42	42	42	1/2	103	103	103
145A	817	36	36	36	1/2	817	36	36	36	1/2	817	36	36	36	1/2	103	103	103
148A	817	36	36	36	1/2	817	36	36	36	1/2	817	36	36	36	1/2	103	103	103
151A	817	36	36	36	1/2	816	36	36	36	1/2	815	36	36	36	1/2	103	103	103
154A	814	36	36	36	1/2	813	36	36	36	1/2	812	36	36	36	1/2	103	103	103
157A	811	42	42	42	1/2	808	45	45	45	1/2	806	50	50	50	1/2	103	102	102

PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2
142A			C18	42	42			C18	42	42			C17	42	42
145A			C17	36	36			C17	36	36			C17	36	36
148A			C17	36	36			C17	36	36			C17	36	36
151A			C17	36	36			C16	36	36			C15	36	36
154A			C14	36	36			C13	36	36			C12	36	36
157A			C11	42	42			C08	45	45			C06	50	50

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
142A	D10	42	42	36	36	1/2	D10	42	42	36	1/2	D10	42	42	36	36	1/2
145A	D09	36	36	36	36	1/2	D09	36	36	36	1/2	D09	36	36	36	36	1/2
148A	D09	36	36	36	36	1/2	D09	36	36	36	1/2	D09	36	36	36	36	1/2
151A	D08	36	36	36	36	1/2	D08	36	36	36	1/2	D08	36	36	36	36	1/2
154A	D07	36	36	36	36	3/8	D07	36	36	36	3/8	D07	36	36	36	36	3/8
157A	D06	42	42	36	36	3/8	D06	45	45	36	3/8	D06	50	50	36	36	3/8

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS
142A		E18	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F18	42	42	704
145A		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
148A		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
151A		E16	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F16	45	45	704
154A		E13	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F13	45	45	703
157A		E09	50	50	45	45	50	50	45	45	3/8	3/8	3/8		F09	50	50	702

PNL NO	SPANREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D										SEAT DETAILS				
	T84	FY84	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3			
142A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71			
145A	1-3/8	36	B12	B12	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76			
148A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71			
151A	1-3/8	36	B12	B12	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76			
154A	1-3/8	36	B12	B12	91	97	90	1-1/2	42	5/8	36	7/8	36	3/8	D12	D12	71	76	70			
157A	1-3/8	36	B12	B13	98	95	94	1-1/2	42	1/2	36	3/4	36	3/8	D12	D13	76	74	76			



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

EXTERIOR WALL - TREE - SCHEDULE WALL 200

DATE

12-18-67

REVISIONS

PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
221A	810	45	45	45	1/2	809	45	45	45	1/2	808	45	45	45	1/2	103	102	102
224A	807	45	45	45	1/2	807	45	45	45	1/2	807	45	45	45	1/2	102	102	102
227A	807	45	45	45	1/2	807	45	45	45	1/2	807	45	45	45	1/2	102	102	102
230A	807	45	45	45	1/2	807	45	45	45	1/2	807	45	45	45	1/2	102	102	102
233A	807	45	45	45	1/2	807	45	45	45	1/2	807	45	45	45	1/2	102	102	102
236A	807	45	45	45	1/2	807	45	45	45	1/2	807	45	45	45	1/2	102	102	102
239A	808	45	45	45	1/2	809	45	45	45	1/2	810	45	45	45	1/2	102	102	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3				
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2		
221A		C10	45	45			C09	45	45			C08	45	45	
224A		C07	45	45			C07	45	45			C07	45	45	
227A		C07	45	45			C07	45	45			C07	45	45	
230A		C07	45	45			C07	45	45			C07	45	45	
233A		C07	45	45			C07	45	45			C07	45	45	
236A		C07	45	45			C07	45	45			C07	45	45	
239A		C08	45	45			C09	45	45			C10	45	45	

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
221A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8
224A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8
227A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8
230A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8
233A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8
236A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8
239A	D05	45	45	36	36	3/8	D05	45	45	36	3/8	D05	45	45	36	36	3/8

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYF1	FYF2	LCS
221A	E10	45	45	36	36	45	45	36	36	3/8	3/8	3/8	F10	45	45	702
224A	E08	50	50	45	45	50	50	45	45	3/8	3/8	3/8	F08	50	50	701
227A	E08	50	50	45	45	50	50	45	45	3/8	3/8	3/8	F08	50	50	701
230A	E08	50	50	45	45	50	50	45	45	3/8	3/8	3/8	F08	50	50	701
233A	E08	50	50	45	45	50	50	45	45	3/8	3/8	3/8	F08	50	50	701
236A	E08	50	50	45	45	50	50	45	45	3/8	3/8	3/8	F08	50	50	701
239A	E10	55	55	45	45	55	55	45	45	3/8	3/8	3/8	F10	55	55	702

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D										SEAT DETAILS					
	TB4	FYB4	SCL	SCR	CDL.1	COL.2	CDL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3				
221A	1-3/8	36	B12	812	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76				
224A	1-3/8	36	B12	811	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	72A	76	72A				
227A	1-3/8	36	B11	811	97	92	98	1-1/2	42	1/2	36	7/6	36	3/8	D12	D12	76	72A	76				
230A	1-3/8	36	B11	811	92	98	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	72A	76	72A				
233A	1-3/8	36	B11	812	98	92	97	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76				
236A	1-3/8	36	B12	812	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	72A	76	72A				
239A	1-3/8	36	B12	812	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76				



WORTHINGTON, SKILLING, HELLE & JACKSON

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REVISIONS

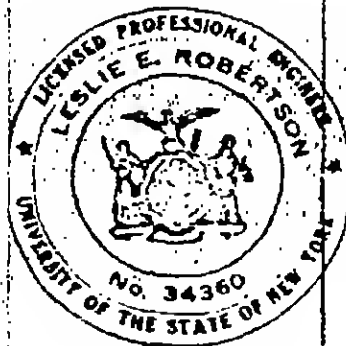
PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPlice		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
303A	B06	55	55	50	1/2	B08	50	50	50	1/2	B11	45	45	45	1/2	102	102	103
306A	B12	42	42	42	1/2	B13	42	42	42	1/2	B14	42	42	42	1/2	103	103	103
309A	B15	42	42	42	1/2	B16	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
312A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
315A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
318A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103

PNL NO	LEVEL C COL.1				LEVEL C COL.2				LEVEL C COL.3			
	TYPE	FYC1	FYC2		TYPE	FYC1	FYC2		TYPE	FYC1	FYC2	
303A		C06	55	55		C06	50	50		C11	45	45
306A		C12	42	42		C13	42	42		C14	42	42
309A		C15	42	42		C16	42	42		C17	42	42
312A		C17	42	42		C17	42	42		C17	42	42
315A		C17	42	42		C17	42	42		C17	42	42
318A		C17	42	42		C17	42	42		C17	42	42

PNL NO.	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
303A	D06	55	55	36	36	3/8	D06	50	50	36	3/8	D06	45	45	36	36	3/8
306A	D07	42	42	36	36	3/8	D07	42	42	36	3/8	D07	42	42	36	36	3/8
309A	D08	42	42	36	36	1/2	D08	42	42	36	1/2	D08	42	42	36	36	1/2
312A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
315A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
318A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2

PNL NO	LEVEL E										LEVEL F		
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LCS
303A	E09	55	55	45	45	55	55	45	45	3/8	3/8	3/8	F09 55 55 702
306A	E13	55	55	45	45	55	55	45	45	3/8	3/8	3/8	F13 55 55 703
309A	E16	50	50	45	45	50	50	42	45	3/8	3/8	3/8	F16 50 50 704
312A	E17	50	50	45	45	50	50	42	45	3/8	3/8	3/8	F17 50 50 704
315A	E17	50	50	45	45	50	50	42	45	3/8	3/8	3/8	F17 50 50 704
318A	E17	45	45	36	36	45	45	36	36	3/8	3/8	3/8	F17 45 45 704

PNL NO	SPANDREL LEVEL B SEAT DETAILS							SPANDREL LEVEL A SEAT DETAILS											
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYB4	TB7	FYB7	TB8	FYB8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
303A	1-3/8	36	B13	B12	94	95	98	1-1/2	42	1/2	36	3/4	36	3/8	D13	D11	76	74	76
306A	1-3/8	36	B12	B12	90	97	91	1-1/2	42	5/8	36	3/4	36	3/8	D11	D12	70	76	71
309A	1-3/8	36	B12	B12	98	91	98	1-1/2	42	3/4	36	7/8	36	3/8	D12	B12	76	71	76
312A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71
315A	1-3/8	36	B12	B12	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76
318A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71



WORTHINGTON, SKILLING, HELLE & JACKSON

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REVISIONS

PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
321A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
324A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
327A	B17	42	42	42	1/2	B17	42	42	42	1/2	B18	42	42	42	1/2	103	103	103
330A	B18	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103
333A	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103
336A	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103
339A	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3							
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2					
321A		C17	42	42			C17	42	42			C17	42	42				
324A		C17	42	42			C17	42	42			C17	42	42				
327A		C17	42	42			C17	42	42			C18	42	42				
330A		C18	42	42			C19	42	42			C19	42	42				
333A		C19	42	42			C19	42	42			C19	42	42				
336A		C19	42	42			C19	42	42			C19	42	42				
339A		C19	42	42			C19	42	42			C19	42	42				

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
321A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
324A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
327A	D10	42	42	36	36	1/2	D10	42	42	36	1/2	D10	42	42	36	36	1/2
330A	D11	42	42	36	36	1/2	D11	42	42	36	1/2	D11	42	42	36	36	1/2
333A	D11	42	42	36	36	1/2	D11	42	42	36	1/2	D11	42	42	36	36	1/2
336A	D11	42	42	36	36	1/2	D11	42	42	36	1/2	D11	42	42	36	36	1/2
339A	D11	42	42	36	36	1/2	D11	42	42	36	1/2	D11	42	42	36	36	1/2

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYE1	FYE2	LCS
321A	E17	45	45	36	36	45	45	36	36	3/8	3/8	3/8	F17	45	45	704
324A	E17	45	45	36	36	45	45	36	36	3/8	3/8	3/8	F17	45	45	704
327A	E18	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F18	42	42	704
330A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704
333A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704
336A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704
339A	E19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D										SEAT DETAILS					
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3				
321A	1-3/8	36	B12	B12	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76				
324A	1-3/8	36	B12	B12	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71				
327A	1-3/8	36	B12	B12	97	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76				
330A	1-3/8	36	B12	B12	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	70				
333A	1-3/8	36	B12	B12	98	91	97	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	70	76				
336A	1-3/8	36	B12	B12	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	70				
339A	1-3/8	36	B12	B12	93	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	70	76				



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT	THE WORLD TRADE CENTER	TITLE	EXTERIOR WALL - TREE - SCHEDULE WALL 300	DATE	12-18-67
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REVISIONS

PNL ND	LEVEL 8 COLUMN 1					LEVEL 8 COLUMN 2					LEVEL 8 COLUMN 3					UPPER COL. SPLICE		
	TYPE	FY81	FY82	FYB6	WELD 3	TYPE	FY81	FY82	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
342A	B18	42	42	42	1/2	B18	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
345A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
348A	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
351A	B17	42	42	42	1/2	B16	42	42	42	1/2	B15	42	42	42	1/2	103	103	103
354A	B14	42	42	42	1/2	B13	42	42	42	1/2	B12	42	42	42	1/2	103	103	103
357A	B11	45	45	45	1/2	B08	50	50	50	1/2	B06	55	55	55	1/2	103	102	102

PNL ND	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2
342A			C18	42	42			C18	42	42			C17	42	42
345A			C17	42	42			C17	42	42			C17	42	42
348A			C17	42	42			C17	42	42			C17	42	42
351A			C17	42	42			C16	42	42			C15	42	42
354A			C14	42	42			C13	42	42			C12	42	42
357A			C11	45	45			C08	50	50			C06	55	55

	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
PNL ND	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
342A	D10	42	42	36	36	1/2	D10	42	42	36	1/2	D10	42	42	36	36	1/2
345A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
348A	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
351A	D08	42	42	36	36	1/2	D08	42	42	36	1/2	D08	42	42	36	36	1/2
354A	D07	42	42	36	36	3/8	D07	42	42	36	3/8	D07	42	42	36	36	3/8
357A	D06	45	45	36	36	3/8	D06	50	50	36	3/8	D06	55	55	36	36	3/8

PNL ND	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS
342A		E18	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F18	42	42	704
345A		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
348A		E17	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F17	45	45	704
351A		E16	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F16	45	45	704
354A		E13	50	50	45	45	50	50	45	45	3/8	3/8	3/8		F13	50	50	703
357A		F09	50	50	45	45	50	50	45	45	3/8	3/8	3/8		F09	50	50	702

PNL ND	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS				
	T84	FY84	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
342A	1-3/8	36	812	812	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71	
345A	1-3/8	36	B12	B12	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76	
348A	1-3/8	36	812	812	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D12	D12	71	76	71	
351A	1-3/8	36	B12	812	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76	
354A	1-3/8	36	B12	B12	91	97	90	1-1/2	42	5/8	36	7/8	36	3/8	D12	D11	71	76	70	
357A	1-3/8	36	B12	B13	98	95	94	1-1/2	42	1/2	36	3/4	36	3/8	D11	D13	76	74	76	



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

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PROJECT		THE WORLD TRADE CENTER										TITLE										EXTERIOR WALL - TREE - SCHEDULE WALL 400										DATE		12-18-67	
		LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE																		
PNL NO	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3																	
403A	B02	50	50	50	3/8	B03	45	45	45	3/8	B03	42	42	42	3/8	102	102	102																	
406A	B03	42	42	42	3/8	B03	42	42	42	3/8	B03	42	42	42	3/8	102	102	102																	
409A	B03	42	42	42	3/8	B03	42	42	42	3/8	B04	42	42	42	3/8	102	102	102																	
412A	B04	42	42	42	3/8	B05	42	42	42	3/8	B05	42	42	42	3/8	102	102	102																	
415A	B06	42	42	42	3/8	B07	42	42	42	3/8	B08	42	42	42	1/2	102	102	102																	
418A	B10	42	42	42	1/2	B10	42	42	42	1/2	B10	42	42	42	1/2	103	103	103																	
PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2																				
403A			C02	50	50			C03	45	45			C03	42	42																				
406A			C03	42	42			C03	42	42			C03	42	42																				
409A			C03	42	42			C03	42	42			C04	42	42																				
412A			C04	42	42			C05	42	42			C05	42	42																				
415A			C06	42	42			C07	42	42			C08	42	42																				
418A			C10	42	42			C10	42	42			C10	42	42																				
PNL NO	LEVEL D	COLUMN 1	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	LEVEL D	COLUMN 2	TYPE	FYD1	FYD2	FYD5	WELD 2	LEVEL D	COLUMN 3	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2												
403A	D02	50	50	36	36	3/8			D02	45	45	36			3/8	D02	42	42	36	36		3/8													
406A	D02	42	42	36	36	3/8			D02	42	42	36			3/8	D02	42	42	36	36		3/8													
409A	D02	42	42	36	36	3/8			D02	42	42	36			3/8	D02	42	42	36	36		3/8													
412A	D03	42	42	36	36	3/8			D03	42	42	36			3/8	D03	42	42	36	36		3/8													
415A	D04	42	42	36	36	3/8			D04	42	42	36			3/8	D04	42	42	36	36		3/8													
418A	D05	42	42	36	36	3/8			D05	42	42	36			3/8	D05	42	42	36	36		3/8													
PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS																	
403A	E04	55	55	45	45	55	55	45	45		3/8	3/8	3/8		F04	55	55	701																	
406A	E05	55	55	45	45	55	55	45	45		3/8	3/8	3/8		F05	55	55	701																	
409A	E05	55	55	45	45	55	55	45	45		3/8	3/8	3/8		F05	55	55	701																	
412A	E06	55	55	45	45	55	55	45	45		3/8	3/8	3/8		F06	55	55	701																	
415A	E07	55	55	45	45	55	55	45	45		3/8	3/8	3/8		F07	55	55	701																	
418A	E11	50	50	45	45	50	50	45	45		3/8	3/8	3/8		F11	50	50	702																	
PNL NO	SPANDREL LEVEL B				SFAT DETAILS				SPANDREL LEVEL D						SEAT DETAILS																				
PNL NO	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3																
403A	1-3/8	36	B13	B12	93	98	96	1-1/2	42	1/2	36	5/8	36	3/8	D12	D12	73	76	73																
406A	1-3/8	36	B12	B12	97	93	97	1-1/2	42	1/2	36	5/8	36	3/8	D12	D12	76	75	76																
409A	1-3/8	36	B12	B12	96	98	93	1-1/2	42	1/2	36	5/8	36	3/8	D12	D11	73	76	73																
412A	1-3/8	36	B12	B12	98	96	98	1-1/2	42	1/2	36	3/4	36	3/8	D11	D11	76	73	76																
415A	1-3/8	36	B12	B12	93	97	96	1-1/2	42	1/2	36	3/4	36	3/8	D11	D11	73	76	73																
418A	1-3/8	36	B12	B12	90	98	92	1-1/2	42	1/2	36	7/8	36	3/8	D11	D12	70	76	72A																



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT		TITLE										DATE							
THE WORLD TRADE CENTER		EXTERIOR WALL - TREE - SCHEDULE WALL 400										12-18-67							
LEVEL B COLUMN 1						LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE			
PNL NO	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3	
421A	B10	42	42	42	1/2	809	42	42	42	1/2	808	42	42	42	1/2	103	102	102	
424A	807	42	42	42	1/2	807	42	42	42	1/2	807	42	42	42	1/2	102	102	102	
427A	807	42	42	42	1/2	807	42	42	42	1/2	807	42	42	42	1/2	102	102	102	
430A	807	42	42	42	1/2	807	42	42	42	1/2	807	42	42	42	1/2	102	102	102	
433A	807	42	42	42	1/2	807	42	42	42	1/2	807	42	42	42	1/2	102	102	102	
436A	807	42	42	42	1/2	807	42	42	42	1/2	807	42	42	42	1/2	102	102	102	
439A	808	42	42	42	1/2	809	42	42	42	1/2	810	42	42	42	1/2	102	102	103	
PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2				
421A			C10	42	42			C09	42	42			C08	42	42				
424A			C07	42	42			C07	42	42			C07	42	42				
427A			C07	42	42			C07	42	42			C07	42	42				
430A			C07	42	42			C07	42	42			C07	42	42				
433A			C07	42	42			C07	42	42			C07	42	42				
436A			C07	42	42			C07	42	42			C07	42	42				
439A			C08	42	42			C09	42	42			C10	42	42				
LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3								
PNL NO	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2		
421A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
424A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
427A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
430A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
433A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
436A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
439A	DD5	42	42	36	36	3/8	DD5	42	42	36	3/8	DD5	42	42	36	36	3/8		
PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS	
421A		E10	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F10	50	50	702	
424A		E08	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F08	50	50	701	
427A		E08	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F08	50	50	701	
430A		E08	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F08	45	45	701	
433A		E08	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F08	45	45	701	
436A		E08	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F08	45	45	701	
439A		E10	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F10	45	45	702	
SPANDREL LEVEL B						SEAT DETAILS			SPANDREL LEVEL D					SEAT DETAILS					
PNL NO	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
421A	1-3/8	36	B12	B12	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76
424A	1-3/8	36	B12	B11	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	72A	76	72A
427A	1-3/8	36	B11	B11	97	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76
430A	1-3/8	36	B11	B11	92	98	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	72A	76	72A
433A	1-3/8	36	B11	B12	98	92	97	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76
436A	1-3/8	36	B12	B12	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	72A	76	72A
439A	1-3/8	36	B12	B12	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	76

2-41- 12



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	EXTERIOR WALL - TREE - SCHEDULE WALL 400	12-18-67

REVISIONS

PNL NO	LEVEL B COLUMN 1					LEVEL 8 COLUMN 2					LEVEL 8 COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FY81	FY82	FYB6	WELD 3	TYPE	FYB1	FY82	FY86	WELD 3	COL.1	COL.2	COL.3
442A	B10	42	42	42	1/2	B10	42	42	42	1/2	B10	42	42	42	1/2	103	103	103
445A	B08	42	42	42	1/2	B07	42	42	42	3/8	B06	42	42	42	3/8	102	102	102
448A	B05	42	42	42	3/8	B05	42	42	42	3/8	B04	42	42	42	3/8	102	102	102
451A	B04	42	42	42	3/8	B03	42	42	42	3/8	B03	42	42	42	3/8	102	102	102
454A	B03	42	42	42	3/8	B03	42	42	42	3/8	B03	42	42	42	3/8	102	102	102
457A	B03	42	42	42	3/8	B03	45	45	45	3/8	B02	50	50	50	3/8	102	102	102

PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2
442A			C10	42	42			C10	42	42			C10	42	42
445A			C08	42	42			C07	42	42			C06	42	42
448A			C05	42	42			C05	42	42			C04	42	42
451A			C04	42	42			C03	42	42			C03	42	42
454A			C03	42	42			C03	42	42			C03	42	42
457A			C03	42	42			C03	45	45			C02	50	50

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
442A	D05	42	42	36	36	3/8	D05	42	42	36	3/8	D05	42	42	36	36	3/8
445A	D04	42	42	36	36	3/8	D04	42	42	36	3/8	D04	42	42	36	36	3/8
448A	D03	42	42	36	36	3/8	D03	42	42	36	3/8	D03	42	42	36	36	3/8
451A	D02	42	42	36	36	3/8	D02	42	42	36	3/8	D02	42	42	36	36	3/8
454A	D02	42	42	36	36	3/8	D02	42	42	36	3/8	D02	42	42	36	36	3/8
457A	D02	42	42	36	36	3/8	D02	45	45	36	3/8	D02	50	50	36	36	3/8

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS
442A		E11	45	45	36	36	45	45	36	36	3/8	3/8	3/8		F11	45	45	702
445A		E07	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F07	50	50	701
448A		E06	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F06	50	50	701
451A		E05	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F05	50	50	701
454A		E05	50	50	45	45	50	50	42	45	3/8	3/8	3/8		F05	50	50	701
457A		E04	50	50	45	45	50	50	45	45	3/8	3/8	3/8		F04	50	50	701

PNL NO	SPANDREL LEVEL 8				SEAT DETAILS			SPANDREL LEVEL D										SEAT DETAILS				
	T84	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3			
442A	1-3/8	36	B12	812	92	98	90	1-1/2	42	1/2	36	7/8	36	3/8	D12	D11	72A	76	70			
445A	1-3/8	36	B12	812	96	97	93	1-1/2	42	1/2	36	3/4	36	3/8	D11	D11	73	76	73			
448A	1-3/8	36	B12	812	98	96	98	1-1/2	42	1/2	36	3/4	36	3/8	D11	D11	76	73	76			
451A	1-3/8	36	B12	812	93	98	96	1-1/2	42	1/2	36	5/8	36	3/8	D11	D12	73	76	73			
454A	1-3/8	36	B12	812	97	93	97	1-1/2	42	1/2	36	5/8	36	3/8	D12	D12	76	75	76			
457A	1-3/8	36	B12	813	96	98	93	1-1/2	42	1/2	36	5/8	36	3/8	D12	D12	73	76	73			



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - SCHEDULE NOTES

DATE 7-25-67

REVISIONS

1-3-69

2-3-69

3-3-69

4-1-69

Printed 5-1-69

	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE			
PNL NO	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3	
(1)	(2)	(3)	(4)	(3)	(5)	(2)	(3)	(4)	(3)	(5)	(2)	(3)	(4)	(3)	(5)	(6)	(6)	(6)	
PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2				
(1)			(7)	(3)	(3)			(7)	(3)	(3)			(7)	(3)	(3)				
	LEVEL D COLUMN 1					LEVEL D COLUMN 2					LEVEL D COLUMN 3								
PNL NO	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2		
(1)	(8)	(3)	(3)	(3)	(3)	(9)	(3)	(3)	(3)	(3)	(9)	(3)	(3)	(3)	(3)	(3)	(3)	(9)	
PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS	
(1)			(10)	(2)	(3)	(3)	(3)	(3)	(3)	(3)	(11)	(11)	(11)		(12)	(3)	(3)	(13)	
	SPANDREL LEVEL B			SEAT DETAILS			SPANDREL LEVEL D						SEAT DETAILS						
PNL NO	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYD7	TB8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
(1)	(14)	(3)	(15)	(16)	(17)	(17)	(17)	(18)	(3)	(18)	(3)	(19)	(3)	(19)	(20)	(21)	(17)	(17)	(17)

- (1) PANEL NUMBER - IDENTIFIED BY COLUMN NUMBER FOR CENTER COLUMN OF PANEL AND TOWER DESIGNATION A OR B
(NOTE) PANELS ARE SHOWN FROM INSIDE OF BUILDING LOOKING OUT. FOR PANEL ELEVATION SEE 2-AB2-2
SCHEDULED COLUMN 1 IS THE LEFT COLUMN, COLUMN 2 THE MIDDLE COLUMN AND COLUMN 3 THE RIGHT COLUMN
- (2) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-4 THRU 6
(3) REQUIRED YIELD STRENGTH FOR INDICATED PLATE (KSI)
(4) REQUIRED YIELD STRENGTH FOR PLATE B2 AND B3 (KSI)
(5) WELD SIZE (INCHES) SEE 2-AB2-4 FOR LOCATION
(6) DETAIL NUMBER FOR UPPER COLUMN SPLICE - SEE 2-AB2-25 THRU 27
(7) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-7
(8) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-8 THRU 11
(9) WELD SIZE (INCHES) SEE 2-AB2-8 FOR LOCATION
(10) ASSEMBLY TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-12 THRU 15
(11) WELD SIZE (INCHES) SEE 2-AB2-13 FOR LOCATION
(12) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-16
(13) DETAIL NUMBER FOR LOWER COLUMN SPLICE - SEE 2-AB2-29 AND 30
(14) THICKNESS OF PLATE B4 (INCHES) SEE 2-AB2-4 FOR DETAILS
(15) DETAIL NUMBER FOR LEFT SPANDREL CONNECTION - SEE 2-AB2-23
(16) DETAIL NUMBER FOR RIGHT SPANDREL CONNECTION - SEE 2-AB2-23
(17) DETAIL NUMBER FOR BEAM AND BRACING SEAT DETAILS - SEE 2-AB2-31 THRU 36
(18) THICKNESS OF PLATE INDICATED - SEE 2-AB2- 8 THRU 11 FOR DETAILS
(19) WELD SIZE (INCHES) SEE 2-AB2- 8 THRU 11 FOR LOCATION
(20) DETAIL NUMBER FOR LEFT SPANDREL CONNECTION - SEE 2-AB2-24
(21) DETAIL NUMBER FOR RIGHT SPANDREL CONNECTION - SEE 2-AB2-24



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

EXTERIOR WALL - TRFEE - SCHEDULE WALL 100

DATE

12-18-67

REVISIONS

7-25-68

8-20-68

PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
103B	B06	55	55	50	1/2	B08	50	50	50	1/2	B11	45	45	45	1/2	102	102	103
106B	B12	45	45	45	1/2	B13	45	45	45	1/2	B14	45	45	45	1/2	103	103	103
109B	B15	45	45	45	1/2	B16	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
112B	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
115B	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
118B	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3				
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2		
103B		C06	55	55			C08	50	50			C11	45	45	
106B		C12	45	45			C13	45	45			C14	45	45	
109B		C15	45	45			C16	45	45			C17	45	45	
112B		C17	45	45			C17	45	45			C17	45	45	
115B		C17	45	45			C17	45	45			C17	45	45	
118B		C17	45	45			C17	45	45			C17	45	45	

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
103B	D06	55	55	36	45	3/8	D06	50	50	36	3/8	D06	45	45	36	45	3/8
106B	D07	45	45	36	45	3/8	D07	45	45	36	3/8	D07	45	45	36	45	3/8
109B	D08	45	45	36	45	1/2	D08	45	45	36	1/2	D08	45	45	36	45	1/2
112B	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
115B	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
118B	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LOS
103B		E09	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F09	60	60	702
106B		E13	55	55	45	45	55	55	42	42	3/8	3/8	3/8		F13	55	55	703
109B		E16	55	55	45	45	55	55	42	42	3/8	3/8	3/8		F16	55	55	704
112B		E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8		F17	50	50	704
115B		E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8		F17	50	50	704
118B		F17	50	50	45	45	50	50	42	42	3/8	3/8	3/8		F17	50	50	704

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS				
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WFLD 8	SCL	SCR	COL.1	COL.2	COL.3	
103B	1-3/8	36	B13	B13	95	89	89	1-1/2	42	1/2	36	3/4	36	3/8	D13	D12	76	74	76	
106B	1-3/8	36	B12	B13	90	89	91	1-1/2	42	5/8	36	3/4	36	3/8	D12	D13	70	76	71	
109B	1-3/8	36	B13	B13	89	91	98	1-1/2	42	3/4	36	7/8	36	3/8	D13	D13	76	71	76	
112B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	71	
115B	1-3/8	36	B13	B13	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	71	76	
118B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	71	



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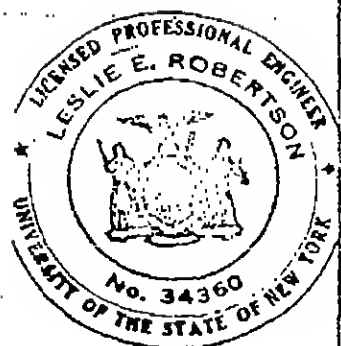
PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
1218	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
1248	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
1278	B17	45	45	45	1/2	B17	45	45	45	1/2	B18	45	45	45	1/2	103	103	103
1308	B18	45	45	45	1/2	B19	45	45	45	1/2	B19	45	45	45	1/2	103	103	103
1338	B19	45	45	45	1/2	B19	45	45	45	1/2	B19	45	45	45	1/2	103	103	103
1368	B19	45	45	45	1/2	B19	45	45	45	1/2	B19	45	45	45	1/2	103	103	103
1398	B19	45	45	45	1/2	B19	45	45	45	1/2	B19	45	45	45	1/2	103	103	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3				
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2		
1218		C17	45	45			C17	45	45			C17	45	45	
1248		C17	45	45			C17	45	45			C17	45	45	
1278		C17	45	45			C17	45	45			C18	45	45	
1308		C18	45	45			C19	45	45			C19	45	45	
1338		C19	45	45			C19	45	45			C19	45	45	
1368		C19	45	45			C19	45	45			C19	45	45	
1398		C19	45	45			C19	45	45			C19	45	45	

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
1218	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
1248	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
1278	D10	45	45	36	45	1/2	D10	45	45	36	1/2	D10	45	45	36	45	1/2
1308	D11	45	45	36	45	1/2	D11	45	45	36	1/2	D11	45	45	36	45	1/2
1338	D11	45	45	36	45	1/2	D11	45	45	36	1/2	D11	45	45	36	45	1/2
1368	D11	45	45	36	45	1/2	D11	45	45	36	1/2	D11	45	45	36	45	1/2
1398	D11	45	45	36	45	1/2	D11	45	45	36	1/2	D11	45	45	36	45	1/2

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYF1	FYF2	LCS
1218	E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F17	50	50	704
1248	E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F17	50	50	704
1278	E18	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F18	45	45	704
1308	E19	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F19	45	45	704
1338	E19	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F19	45	45	704
1368	E19	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F19	45	45	704
1398	E19	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F19	45	45	704

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL B										SEAT DETAILS		
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
1218	1-3/8	36	B13	B13	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	71	76	
1248	1-3/8	36	B13	B13	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	71	
1278	1-3/8	36	B13	B13	97	91	98	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	71	76	
1308	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	70	
1338	1-3/8	36	B13	B13	98	91	97	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	70	76	
1368	1-3/8	36	B13	B13	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D13	D14	71	76	70	
1398	1-3/8	36	B13	B13	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D14	D13	76	70	76	



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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
142B	B1B	45	45	45	1/2	B1B	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
145B	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
148B	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
151B	B17	45	45	45	1/2	B16	45	45	45	1/2	B15	45	45	45	1/2	103	103	103
154B	B14	45	45	45	1/2	B13	45	45	45	1/2	B12	45	45	45	1/2	103	103	103
157B	B11	45	45	45	1/2	B08	50	50	50	1/2	B06	55	55	50	1/2	103	102	102

PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2
142B			C18	45	45			C18	45	45			C17	45	45
145B			C17	45	45			C17	45	45			C17	45	45
148B			C17	45	45			C17	45	45			C17	45	45
151B			C17	45	45			C16	45	45			C15	45	45
154B			C14	45	45			C13	45	45			C12	45	45
157B			C11	45	45			C08	50	50			C06	55	55

	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
PNL NO	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
142B	D10	45	45	36	45	1/2	D10	45	45	36	1/2	D10	45	45	36	45	1/2
145B	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
148B	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
151B	D08	45	45	36	45	1/2	D08	45	45	36	1/2	D08	45	45	36	45	1/2
154B	D07	45	45	36	45	3/8	D07	45	45	36	3/8	D07	45	45	36	45	3/8
157B	D06	45	45	36	45	3/8	D06	50	50	36	3/8	D06	55	55	36	45	3/8

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS
142B		F1B	50	50	45	45	50	50	42	42	3/8	3/8	3/8		F20	42	42	705
145B		E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8		F20	42	42	705
148B		E17	45	45	45	45	45	45	42	42	3/8	3/8	3/8		F17	45	45	704
151B		E16	55	55	45	45	55	55	42	42	3/8	3/8	3/8		F16	55	55	704
154B		E13	55	55	45	45	55	55	42	42	3/8	3/8	3/8		F13	55	55	703
157B		E09	60	60	45	45	60	60	42	42	3/8	3/8	3/8		F09	60	60	702

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D							SEAT DETAILS					
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TDB	FYDB	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
142B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D14	71	76	71	
145B	1-3/8	36	B13	B13	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D14	D13	76	71	76	
148B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D12	71	76	71	
151B	1-3/8	36	B13	B13	98	91	89	1-1/2	42	3/4	36	1	36	3/8	D12	D12	76	71	76	
154B	1-3/8	36	B13	B13	91	89	80	1-1/2	42	5/8	36	7/8	36	3/8	D12	D12	71	76	71	
157B	1-3/8	36	B13	B13	89	89	86	1-1/2	42	1/2	36	2/4	36	3/8	D12	D14	76	74	76	



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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
2038	B02	60	60	50	3/8	B03	55	55	50	3/8	B03	50	50	50	3/8	102	102	102
2068	B03	50	50	50	3/8	B03	50	50	50	3/8	B03	50	50	50	3/8	102	102	102
2098	B03	50	50	50	3/8	B03	50	50	50	3/8	B04	50	50	50	3/8	102	102	102
2128	B04	50	50	50	3/8	B05	50	50	50	3/8	B05	50	50	50	3/8	102	102	102
2158	B06	50	50	50	3/8	B07	50	50	50	3/8	B08	50	50	50	1/2	102	102	102
2188	B10	50	50	50	1/2	B10	50	50	50	1/2	B10	50	50	50	1/2	103	103	103

PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2
2038			C02	60	60			C03	55	55			C03	50	50
2068			C03	50	50			C03	50	50			C03	50	50
2098			C03	50	50			C03	50	50			C04	50	50
2128			C04	50	50			C05	50	50			C05	50	50
2158			C06	50	50			C07	50	50			C08	50	50
2188			C10	50	50			C10	50	50			C10	50	50

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
2038	D02	60	60	36	36	3/8	D02	55	55	36	3/8	D02	50	50	36	36	3/8
2068	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
2098	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
2128	D03	50	50	36	36	3/8	D03	50	50	36	3/8	D03	50	50	36	36	3/8
2158	D04	50	50	36	36	3/8	D04	50	50	36	3/8	D04	50	50	36	36	3/8
2188	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYE1	FYE2	LOS
2038		E04	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F04	60	60	701
2068		E05	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F05	60	60	701
2098		E05	55	55	45	45	55	55	45	42	3/8	3/8	3/8		F05	55	55	701
2128		E06	55	55	45	45	55	55	45	42	3/8	3/8	3/8		F06	55	55	701
2158		F07	55	55	45	45	55	55	45	42	3/8	3/8	3/8		F07	55	55	701
2188		E11	55	55	45	45	55	55	45	42	3/8	3/8	3/8		F11	55	55	702

SPANDREL LEVEL B					SEAT DETAILS			SPANDREL LEVEL D					SEAT DETAILS						
PNL NO	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
2038	1-3/8	36	B13	B13	93	89	89	1-1/2	42	1/2	36	5/8	36	3/8	D14	D14	73	76	73
2068	1-3/8	36	B13	B13	89	93	96	1-1/2	42	1/2	36	5/8	36	3/8	D14	D14	76	75	76
2098	1-3/8	36	B13	B13	88	98	93	1-1/2	42	1/2	36	5/8	36	3/8	D14	D11	73	76	73
2128	1-3/8	36	B13	B13	98	88	88	1-1/2	42	1/2	36	3/4	36	3/8	D11	D11	76	73	76
2158	1-3/8	36	B13	B12	93	98	96	1-1/2	42	1/2	36	3/4	36	3/8	D11	D12	73	76	73
2188	1-3/8	36	B12	B12	90	98	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	70	76	726



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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
221B	B10	50	50	50	1/2	B09	50	50	50	1/2	B08	50	50	50	1/2	103	102	102
224B	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
227B	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
230B	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
233B	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
236B	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
239B	B08	50	50	50	1/2	B09	50	50	50	1/2	B10	50	50	50	1/2	102	102	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3						
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2				
221B				C10	50 50				C09	50 50				C08	50 50		
224B				C07	50 50				C07	50 50				C07	50 50		
227B				C07	50 50				C07	50 50				C07	50 50		
230B				C07	50 50				C07	50 50				C07	50 50		
233B				C07	50 50				C07	50 50				C07	50 50		
236B				C07	50 50				C07	50 50				C07	50 50		
239B				C08	50 50				C09	50 50				C10	50 50		

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
221B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
224B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
227B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
230B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
233B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
236B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
239B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYF1	FYF2	LCS
221B	E10	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F10	50	50	702
224B	E08	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F08	50	50	703
227B	E08	45	45	45	45	45	45	42	42	3/8	3/8	3/8	F08	45	45	701
230B	E08	55	55	45	45	55	55	42	42	3/8	3/8	3/8	F15	42	42	704
233B	E08	55	55	45	45	55	55	42	42	3/8	3/8	3/8	F15	42	42	704
236B	E08	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F08	45	45	701
239B	E10	45	45	36	36	45	45	42	42	3/8	3/8	3/8	F10	45	45	702

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS					
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3		
221B	1-3/8	36	B12	B12	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D13	76	72A	76		
224B	1-3/8	36	B12	B12	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D13	D13	72A	76	72A		
227B	1-3/8	36	B12	B12	97	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D13	D12	76	72A	76		
230B	1-3/8	36	B12	B12	92	98	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D14	72A	76	72A		
233B	1-3/8	36	B12	B12	98	92	97	1-1/2	42	1/2	36	7/8	36	3/8	D14	D12	76	72A	76		
236B	1-3/8	36	B12	B12	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D12	D14	72A	76	72A		
239B	1-3/8	36	B12	B12	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D14	D14	76	72A	76		



SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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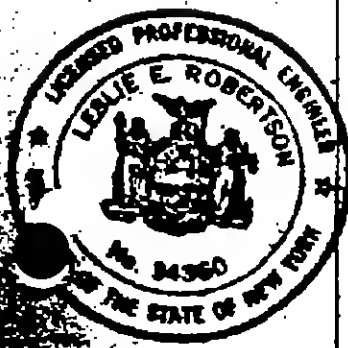
PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 2 - EXTERIOR WALL TREE	10/18/72

REVISIONS

PRINTED

5/18/73

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2-A1- 1	5/18/73	2-B1- 1	5/ 1/69	2-AB2- 1	5/ 1/69	SA-125	4- 7-67
2-A1- 2	12-18-67	2-B1- 2	8/20/68	2-AB2- 2	4- 7-67	SA-126	5- 8-67
2-A1- 3	7-28-67	2-B1- 3	7-28-67	2-AB2- 3	4- 7-67	SA-127	4- 7-67
2-A1- 4	12-18-67	2-B1- 4	8/20/68	2-AB2- 4	7-28-67	SA- 128	5/ 8/71
2-A1- 5	12-18-67	2-B1- 5	8/20/68	2-AB2- 5	7-28-67	SB-125	2/15/68
2-A1- 6	12-18-67	2-B1- 6	12-18-67	2-AB2- 6	7-17-67	SB-126	2/15/68
2-A1- 7	12-18-67	2-B1- 7	8/20/68	2-AB2- 7	4- 7-67	SB-127	2/15/68
2-A1- 8	12-18-67	2-B1- 8	8/20/68	2-AB2- 8	4- 7-67	SB-128	2/15/68
2-A1- 9	7-28-67	2-B1- 9	7-28-67	2-AB2- 9	4- 7-67		
2-A1- 10	12-18-67	2-B1- 10	8/20/68	2-AB2- 10	4- 7-67		
2-A1- 11	12-18-67	2-B1- 11	8/20/68	2-AB2- 11	4- 7-67		
2-A1- 12	12-18-67	2-B1- 12	12-18-67	2-AB2- 12	12-18-67		
				2-AB2- 13	4- 7-67		
				2-AB2- 14	4- 7-67		
				2-AB2- 15	12-18-67		
				2-AB2- 16	4- 7-67		
				2-AB2- 17	7-25-67		
				2-AB2- 18	12-18-67		
				2-AB2- 19	7-25-67		
				2-AB2- 20	7-25-67		
				2-AB2- 21	7-25-67		
				2-AB2- 22	8/20/68		
				2-AB2- 23	1- 2-68		
				2-AB2- 24	12-18-67		
				2-AB2- 25	12-18-67		
				2-AB2- 28	7-28-67		
				2-AB2- 29	4- 7-67		
				2-AB2- 30	4- 7-67		
				2-AB2- 31	12-18-67		
				2-AB2- 32	12-18-67		
				2-AB2- 33	12-18-67		
				2-AB2- 34	8/20/68		
				2-AB2- 35	8/20/68		



2-ABO- 0

SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

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THE WORLD TRADE CENTER	EXTERIOR WALL - TREE - SCHEDULE WALL 200	12-18-67

REVISIONS

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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
2428	B10	50	50	50	1/2	B10	50	50	50	1/2	B10	50	50	50	1/2	103	103	103
2458	B08	50	50	50	1/2	B07	50	50	50	3/8	B06	50	50	50	3/8	102	102	102
2488	B05	50	50	50	3/8	B05	50	50	50	3/8	B04	50	50	50	3/8	102	102	102
2518	B04	50	50	50	3/8	B03	50	50	50	3/8	B03	50	50	50	3/8	102	102	102
2548	B03	50	50	50	3/8	B03	50	50	50	3/8	B03	50	50	50	3/8	102	102	102
2578	B03	50	50	50	3/8	B03	55	55	50	3/8	B02	60	60	50	3/8	102	102	102

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3				
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2		
2428		C10	50	50			C10	50	50			C10	50	50	
2458		C08	50	50			C07	50	50			C06	50	50	
2488		C05	50	50			C05	50	50			C04	50	50	
2518		C04	50	50			C03	50	50			C03	50	50	
2548		C03	50	50			C03	50	50			C03	50	50	
2578		C03	50	50			C03	55	55			C02	60	60	

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
2428	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
2458	D04	50	50	36	36	3/8	D04	50	50	36	3/8	D04	50	50	36	36	3/8
2488	D03	50	50	36	36	3/8	D03	50	50	36	3/8	D03	50	50	36	36	3/8
2518	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
2548	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
2578	D02	50	50	36	36	3/8	D02	55	55	36	3/8	D02	60	60	36	36	3/8

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYF1	FYF2	LCS
2428	E11	50	50	45	45	50	50	45	42	3/8	3/8	3/8	F11	50	50	702
2458	E07	60	60	45	45	60	60	45	42	3/8	3/8	3/8	F14	45	45	704
2488	E06	50	50	45	45	50	50	45	42	3/8	3/8	3/8	F06	50	50	701
2518	E05	65	65	45	45	65	65	45	42	3/8	3/8	3/8	F11	45	45	702
2548	E05	50	50	45	45	50	50	45	42	3/8	3/8	3/8	F05	50	50	701
2578	E04	50	50	45	45	50	50	45	42	3/8	3/8	3/8	F04	50	50	701

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D				SEAT DETAILS							
	T84	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
2428	1-3/8	36	B12	B12	92	98	90	1-1/2	42	1/2	36	7/8	36	3/8	D14	D12	72A	76	70
2458	1-3/8	36	B12	B12	96	98	93	1-1/2	42	1/2	36	3/4	36	3/8	D12	D12	73	76	73
2488	1-3/8	36	B12	B12	88	88	98	1-1/2	42	1/2	36	3/4	36	3/8	D12	D14	76	73	76
2518	1-3/8	36	B12	B12	93	98	88	1-1/2	42	1/2	36	5/8	36	3/8	D14	D14	73	76	73
2548	1-3/8	36	B12	B13	96	93	89	1-1/2	42	1/2	36	5/8	36	3/8	D14	D13	76	75	76
2578	1-3/8	36	B13	B13	89	89	93	1-1/2	42	1/2	36	5/8	36	3/8	D13	D13	73	76	73



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

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PROJECT	TITLE	DATE
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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
3038	B06	60	60	50	1/2	B08	55	55	50	1/2	B11	50	50	50	1/2	102	102	103
3068	B12	45	45	45	1/2	B13	45	45	45	1/2	B14	45	45	45	1/2	103	103	103
3098	B15	45	45	45	1/2	B16	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
3128	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
3158	B17	45	45	45	1/2	B17	45	45	45	1/2	B17	45	45	45	1/2	103	103	103
3188	B17	45	45	45	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3				
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2		
3038		C06	60	60			C08	55	55			C11	50	50	
3068		C12	45	45			C13	45	45			C14	45	45	
3098		C15	45	45			C16	45	45			C17	45	45	
3128		C17	45	45			C17	45	45			C17	45	45	
3158		C17	45	45			C17	45	45			C17	45	45	
3188		C17	45	45			C17	42	42			C17	42	42	

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
3038	D06	60	60	36	45	3/8	D06	55	55	36	3/8	D06	50	50	36	45	3/8
3068	D07	45	45	36	45	3/8	D07	45	45	36	3/8	D07	45	45	36	45	3/8
3098	D08	45	45	36	45	1/2	D08	45	45	36	1/2	D08	45	45	36	45	1/2
3128	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
3158	D09	45	45	36	45	1/2	D09	45	45	36	1/2	D09	45	45	36	45	1/2
3188	D09	45	45	36	45	1/2	D09	42	42	36	1/2	D09	42	42	36	45	1/2

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYE1	FYE2	LCS
3038	E09	55	55	45	45	55	55	45	42	3/8	3/8	3/8	F09	55	55	702
3068	F13	55	55	45	45	55	55	42	42	3/8	3/8	3/8	F13	55	55	703
3098	E16	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F16	50	50	704
3128	E17	45	45	45	45	45	45	42	42	3/8	3/8	3/8	F17	45	45	704
3158	E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F21	42	42	705
3188	E17	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F21	42	42	705

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D						SEAT DETAILS		
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR
3038	1-3/8	36	B13	B13	86	89	89	1-1/2	42	1/2	36	3/4	36	3/8	D13	D12
3068	1-3/8	36	B13	B13	90	89	91	1-1/2	42	5/8	36	3/4	36	3/8	D12	D13
3098	1-3/8	36	B13	B13	89	91	98	1-1/2	42	3/4	36	7/8	36	3/8	D13	D14
3128	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D14	D14
3158	1-3/8	36	B13	B13	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D14	D14
3188	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D14	D13



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER TITLE EXTERIOR WALL - TREE - SCHEDULE WALL 300 DATE 7-28-67

REVISIONS

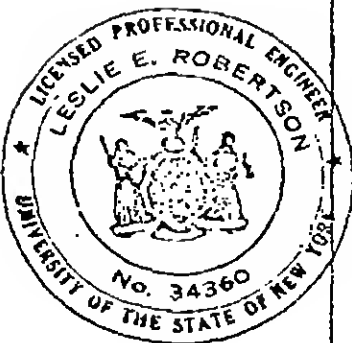
PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
321B	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
324B	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
327B	B17	42	42	42	1/2	B17	42	42	42	1/2	B18	42	42	42	1/2	103	103	103
330B	B18	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103
333B	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103
336B	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103
339B	B19	42	42	42	1/2	B19	42	42	42	1/2	B19	42	42	42	1/2	103	103	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3							
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2					
321B		C17	42	42			C17	42	42			C17	42	42				
324B		C17	42	42			C17	42	42			C17	42	42				
327B		C17	42	42			C17	42	42			C18	42	42				
330B		C18	42	42			C19	42	42			C19	42	42				
333B		C19	42	42			C19	42	42			C19	42	42				
336B		C19	42	42			C19	42	42			C19	42	42				
339B		C19	42	42			C19	42	42			C19	42	42				

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
321B	D09	42	42	36	42	1/2	D09	42	42	36	1/2	D09	42	42	36	42	1/2
324B	D09	42	42	36	42	1/2	D09	42	42	36	1/2	D09	42	42	36	42	1/2
327B	D10	42	42	36	42	1/2	D10	42	42	36	1/2	D10	42	42	36	42	1/2
330B	D11	42	42	36	42	1/2	D11	42	42	36	1/2	D11	42	42	36	42	1/2
333B	D11	42	42	36	42	1/2	D11	42	42	36	1/2	D11	42	42	36	42	1/2
336B	D11	42	42	36	42	1/2	D11	42	42	36	1/2	D11	42	42	36	42	1/2
339B	D11	42	42	36	42	1/2	D11	42	42	36	1/2	D11	42	42	36	42	1/2

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYF1	FYF2	LCS
321B	B17	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F17	42	42	704
324B	B17	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F17	42	42	704
327B	B18	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F18	42	42	704
330B	B19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704
333B	B19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704
336B	B19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704
339B	B19	42	42	36	36	42	42	36	36	3/8	3/8	3/8	F19	42	42	704

PNL NO	SPANDREL LEVEL B				SFAT DETAILS			SPANDREL LEVEL D							SEAT DETAILS					
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYJ7	TB8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
321B	1-3/8	36	B13	B13	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	71	76	
324B	1-3/8	36	B13	B13	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	71	
327B	1-3/8	36	B13	B13	97	91	98	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	71	76	
330B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	70	
333B	1-3/8	36	B13	B13	98	91	97	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	70	76	
336B	1-3/8	36	B13	B13	91	97	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	70	
339B	1-3/8	36	B13	B13	98	91	98	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	70	76	



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	EXTERIOR WALL - TREE - SCHEDULE WALL 300	12-18-67

REVISIONS

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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
342B	B18	42	42	42	1/2	B18	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
345B	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
348B	B17	42	42	42	1/2	B17	42	42	42	1/2	B17	42	42	42	1/2	103	103	103
351B	B17	42	42	42	1/2	B16	42	42	42	1/2	B15	42	42	42	1/2	103	103	103
354B	B14	42	42	42	1/2	B13	42	42	42	1/2	B12	42	42	42	1/2	103	103	103
357B	B11	45	45	45	1/2	B08	50	50	50	1/2	B06	55	55	50	1/2	103	102	102

PNL NO	LEVEL C	COL.1	TYPE	FYC1	FYC2	LEVEL C	COL.2	TYPE	FYC1	FYC2	LEVEL C	COL.3	TYPE	FYC1	FYC2
342B			C18	42	42			C18	42	42			C17	42	42
345B			C17	42	42			C17	42	42			C17	42	42
348B			C17	42	42			C17	42	42			C17	42	42
351B			C17	42	42			C16	42	42			C15	42	42
354B			C14	42	42			C13	42	42			C12	42	42
357B			C11	45	45			C08	50	50			C06	55	55

	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
PNL NO	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
342B	D10	42	42	36	42	1/2	D10	42	42	36	1/2	D10	42	42	36	42	1/2
345B	D09	42	42	36	42	1/2	D09	42	42	36	1/2	D09	42	42	36	42	1/2
348B	D09	42	42	36	36	1/2	D09	42	42	36	1/2	D09	42	42	36	36	1/2
351B	D08	42	42	36	36	1/2	D08	42	42	36	1/2	D08	42	42	36	36	1/2
354B	D07	42	42	36	36	3/8	D07	42	42	36	3/8	D07	42	42	36	36	3/8
357B	D06	45	45	36	36	3/8	D06	50	50	36	3/8	D06	55	55	36	36	3/8

PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYF1	FYF2	LCS
342B		E18	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F18	42	42	704
345B		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
348B		E17	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F17	42	42	704
351B		E16	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F16	42	42	704
354B		E13	42	42	36	36	42	42	36	36	3/8	3/8	3/8		F13	42	42	703
357B		E09	45	45	36	36	45	45	42	36	3/8	3/8	3/8		F09	45	45	702

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D							SEAT DETAILS					
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TDB	FYDB	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
342B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D14	71	76	71	
345B	1-3/8	36	B13	B13	97	91	97	1-1/2	42	3/4	36	1	36	3/8	D14	D13	76	71	76	
348B	1-3/8	36	B13	B13	91	98	91	1-1/2	42	3/4	36	1	36	3/8	D13	D13	71	76	71	
351B	1-3/8	36	B13	B13	98	91	89	1-1/2	42	3/4	36	1	36	3/8	D13	D13	76	71	76	
354B	1-3/8	36	B13	B13	91	89	85	1-1/2	42	3/4	36	1	36	3/8	D13	D12	71	76	71	
357B	1-3/8	36	B13	B13	89	89	94	1-1/2	42	1/2	36	1	36	3/8	D12	D13	76	74	76	



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

EXTERIOR WALL - TREE - SCHEDULE WALL 400

DATE

12-18-67

REVISIONS

7-25-68

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PNL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
403B	B02	60	60	50	3/8	B03	55	55	50	3/8	B03	50	50	50	3/8	102	102	102
406B	B03	50	50	50	3/8	B03	50	50	50	3/8	B03	50	50	50	3/8	102	102	102
409B	B03	50	50	50	3/8	B03	50	50	50	3/8	B04	50	50	50	3/8	102	102	102
412B	B04	50	50	50	3/8	B05	50	50	50	3/8	B05	50	50	50	3/8	102	102	102
415B	B06	50	50	50	3/8	B07	50	50	50	3/8	B08	50	50	50	1/2	102	102	102
418B	B10	50	50	50	1/2	B10	50	50	50	1/2	B10	50	50	50	1/2	103	103	103

PNL NO	LEVEL C COL.1					LEVEL C COL.2					LEVEL C COL.3							
	TYPE	FYC1	FYC2	FYC3	FYC4	TYPE	FYC1	FYC2	FYC3	FYC4	TYPE	FYC1	FYC2	FYC3	FYC4			
403B																		
406B																		
409B																		
412B																		
415B																		
418B																		

PNL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
403B	D02	60	60	36	36	3/8	D02	55	55	36	3/8	D02	50	50	36	36	3/8
406B	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
409B	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
412B	D03	50	50	36	36	3/8	D03	50	50	36	3/8	D03	50	50	36	36	3/8
415B	D04	50	50	36	36	3/8	D04	50	50	36	3/8	D04	50	50	36	36	3/8
418B	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8

PNL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYF1	FYF2	LCS
403B	E04	45	45	36	36	45	45	45	36	3/8	3/8	3/8	F04	45	45	701
406B	E05	42	42	36	36	42	42	42	36	3/8	3/8	3/8	F05	42	42	701
409B	E05	55	55	45	45	55	55	42	36	3/8	3/8	3/8	F11	42	42	702
412B	E06	42	42	36	36	42	42	42	36	3/8	3/8	3/8	F06	42	42	701
415B	E07	42	42	36	36	42	42	42	36	3/8	3/8	3/8	F07	42	42	701
418B	E11	45	45	36	36	45	45	42	36	3/8	3/8	3/8	F11	45	45	702

PNL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS					
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TD4	FYD4	TD7	FYD7	TD8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3		
403B	1-3/8	36	813	813	93	89	89	1-1/2	42	1/2	36	5/8	36	3/8	D13	D12	73	76	73		
406B	1-3/8	36	813	813	89	93	96	1-1/2	42	1/2	36	5/8	36	3/8	D12	D14	76	75	76		
409B	1-3/8	36	813	812	88	98	93	1-1/2	42	1/2	36	5/8	36	3/8	D14	D14	73	76	73		
412B	1-3/8	36	812	813	98	88	98	1-1/2	42	1/2	36	3/4	36	3/8	D14	D11	76	73	76		
415B	1-3/8	36	813	812	92	97	96	1-1/2	42	1/2	36	3/4	36	3/8	D11	D12	73	76	73		
418B	1-3/8	36	812	812	90	98	97	1-1/2	42	1/2	36	7/8	36	3/8	D13	D12	70	76	72A		



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

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REVISIONS

PRL NO	LEVEL A COLUMN 1					LEVEL B COLUMN 2					LEVEL C COLUMN 3					COLUMN 4 SPILL		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL.1	COL.2	COL.3
4218	B10	50	50	50	1/2	B09	50	50	50	1/2	B08	50	50	50	1/2	103	102	100
4248	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
4278	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
4308	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
4338	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
4368	B07	50	50	50	1/2	B07	50	50	50	1/2	B07	50	50	50	1/2	102	102	102
4398	B08	50	50	50	1/2	B09	50	50	50	1/2	B10	50	50	50	1/2	103	102	100

PRL NO	LEVEL C	COL.1	TYPE	FYD1	FYD2	LEVEL C	COL.2	TYPE	FYD1	FYD2	LEVEL C	COL.3	TYPE	FYD1	FYD2
4218			C10	50	50			C09	50	50			C08	50	50
4248			C07	50	50			C07	50	50			C07	50	50
4278			C07	50	50			C07	50	50			C07	50	50
4308			C07	50	50			C07	50	50			C07	50	50
4338			C07	50	50			C07	50	50			C07	50	50
4368			C07	50	50			C07	50	50			C07	50	50
4398			C08	50	50			C09	50	50			C10	50	50

PRL NO	LEVEL D COLUMN 1							LEVEL D COLUMN 2							LEVEL D COLUMN 3						
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2		TYPE	FYD1	FYD2	FYD5	WELD 2		TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2		
4218	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		
4248	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		
4278	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		
4308	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		
4338	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		
4368	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		
4398	D05	50	50	36	36	3/8		D05	50	50	36	3/8		D05	50	50	36	36	3/8		

PRL NO	LEVEL E												LEVEL F			
	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	TYPE	FYE1	FYE2	WELD 8
4218	E10	45	45	36	36	45	45	42	36	3/8	3/8	3/8	F10	45	45	702
4248	E08	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F08	50	50	701
4278	E08	60	60	45	45	60	60	45	42	3/8	3/8	3/8	F15	45	45	704
4308	E08	60	60	45	45	60	60	45	42	3/8	3/8	3/8	F15	45	45	704
4338	E08	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F08	50	50	701
4368	E08	50	50	45	45	50	50	42	42	3/8	3/8	3/8	F08	50	50	701
4398	E10	55	55	45	45	55	55	45	42	3/8	3/8	3/8	F10	55	55	702

PRL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS				
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYD7	TB8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
4218	1-3/8	36	B12	B12	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	71	
4248	1-3/8	36	B12	B12	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D13	D13	72A	76	72A	
4278	1-3/8	36	B12	B12	97	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D13	D14	76	72A	76	
4308	1-3/8	36	B12	B12	98	98	92	1-1/2	42	1/2	36	7/8	36	3/8	D14	D12	72A	76	72A	
4338	1-3/8	36	B12	B12	98	92	97	1-1/2	42	1/2	36	7/8	36	3/8	D12	D12	76	72A	71	
4368	1-3/8	36	B12	B12	92	97	92	1-1/2	42	1/2	36	7/8	36	3/8	D13	D12	72A	76	72A	
4398	1-3/8	36	B12	B12	98	92	98	1-1/2	42	1/2	36	7/8	36	3/8	D13	D12	72A	76	72A	



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

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PROJECT THE WORLD TRADE CENTER TITLE EXTERIOR WALL - TREE - SCHEDULE WALL 400 DATE 12-18-67

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PWL NO	LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPURCE		
	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	TYPE	FYB1	FYB2	FYB6	WELD 3	COL. 1	COL. 2	COL. 3
4428	B10	50	50	50	1/2	B10	50	50	50	1/2	B10	50	50	50	1/2	103	103	103
4458	B08	50	50	50	1/2	B07	50	50	50	3/8	B06	50	50	50	3/8	102	102	102
4488	B05	50	50	50	3/8	B05	50	50	50	3/8	B04	50	50	50	3/8	102	102	102
4518	B04	50	50	50	3/8	B03	50	50	50	3/8	B03	50	50	50	3/8	102	102	102
4548	B03	50	50	50	3/8	B03	50	50	50	3/8	B03	50	50	50	3/8	102	102	102
4578	B03	50	50	50	3/8	B03	50	50	50	3/8	B02	50	50	50	3/8	102	102	102

PWL NO	LEVEL C COL. 1					LEVEL C COL. 2					LEVEL C COL. 3							
	TYPE	FYC1	FYC2			TYPE	FYC1	FYC2			TYPE	FYC1	FYC2					
4428		C10	50	50			C10	50	50			C10	50	50				
4458		C08	50	50			C07	50	50			C06	50	50				
4488		C05	50	50			C05	50	50			C04	50	50				
4518		C04	50	50			C03	50	50			C03	50	50				
4548		C03	50	50			C03	50	50			C03	50	50				
4578		C03	50	50			C03	50	50			C02	55	55				

PWL NO	LEVEL D COLUMN 1						LEVEL D COLUMN 2					LEVEL D COLUMN 3					
	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2	TYPE	FYD1	FYD2	FYD5	WELD 2	TYPE	FYD1	FYD2	FYD5	FYD6	WELD 2
4428	D05	50	50	36	36	3/8	D05	50	50	36	3/8	D05	50	50	36	36	3/8
4458	D04	50	50	36	36	3/8	D04	50	50	36	3/8	D04	50	50	36	36	3/8
4488	D03	50	50	36	36	3/8	D03	50	50	36	3/8	D03	50	50	36	36	3/8
4518	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
4548	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	50	50	36	36	3/8
4578	D02	50	50	36	36	3/8	D02	50	50	36	3/8	D02	55	55	36	36	3/8

PWL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8	WELD 5	WELD 6	WELD 7	LEVEL F	TYPE	FYE1	FYE2	LCS
4428		F11	55	55	45	45	55	55	45	42	3/8	3/8	3/8		F11	55	55	702
4458		F07	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F07	60	60	701
4488		F06	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F06	60	60	701
4518		F05	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F05	60	60	701
4548		F05	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F05	60	60	701
4578		F04	60	60	45	45	60	60	45	42	3/8	3/8	3/8		F04	60	60	701

PWL NO	SPANDREL LEVEL B				SEAT DETAILS			SPANDREL LEVEL D								SEAT DETAILS				
	TB4	FYB4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYD7	TB8	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3	
4428	1-3/8	36	B12	B12	92	98	90	1-1/2	42	1/2	36	7/8	36	3/8	D12	D11	72A	76	70	
4458	1-3/8	36	B12	B12	96	97	93	1-1/2	42	1/2	36	3/4	36	3/8	D11	D11	73	76	73	
4488	1-3/8	36	B12	B12	98	88	98	1-1/2	42	1/2	36	3/4	36	3/8	D11	D12	76	73	76	
4518	1-3/8	36	B12	B12	93	98	88	1-1/2	42	1/2	36	3/4	36	3/8	D12	D12	75	78	73	
4548	1-3/8	36	B12	B12	96	93	89	1-1/2	42	1/2	36	3/4	36	3/8	D12	D12	77	75	76	
4578	1-3/8	36	B12	B12	89	89	93	1-1/2	42	1/2	36	3/4	36	3/8	D12	D12	75	76	73	



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TITLE EXTERIOR WALL - TREE - INDEX

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2-AB2-29 COLUMN SPLICE DETAILS 700

2-AB2-30 COLUMN SPLICE DETAIL 501

2-AB2-31 SEAT DETAILS

2-AB2-32 SEAT DETAILS

2-AB2-33 SEAT DETAILS

2-AB2-34 SEAT DETAILS

2-AB2-35 SEAT DETAILS

2-AB2-36 SEAT DETAILS

SA-125 EXTERIOR WALL ELEVATION TO FL. 9 - WALL 100

SA-126 " " " " - WALL 200

SA-127 " " " " - WALL 300

SA-128 " " " " - WALL 400

SB-125 EXTERIOR WALL ELEVATION TO FL. 9 - WALL 100

SB-126 " " " " - WALL 200

SB-127 " " " " - WALL 300

SB-128 " " " " - WALL 400

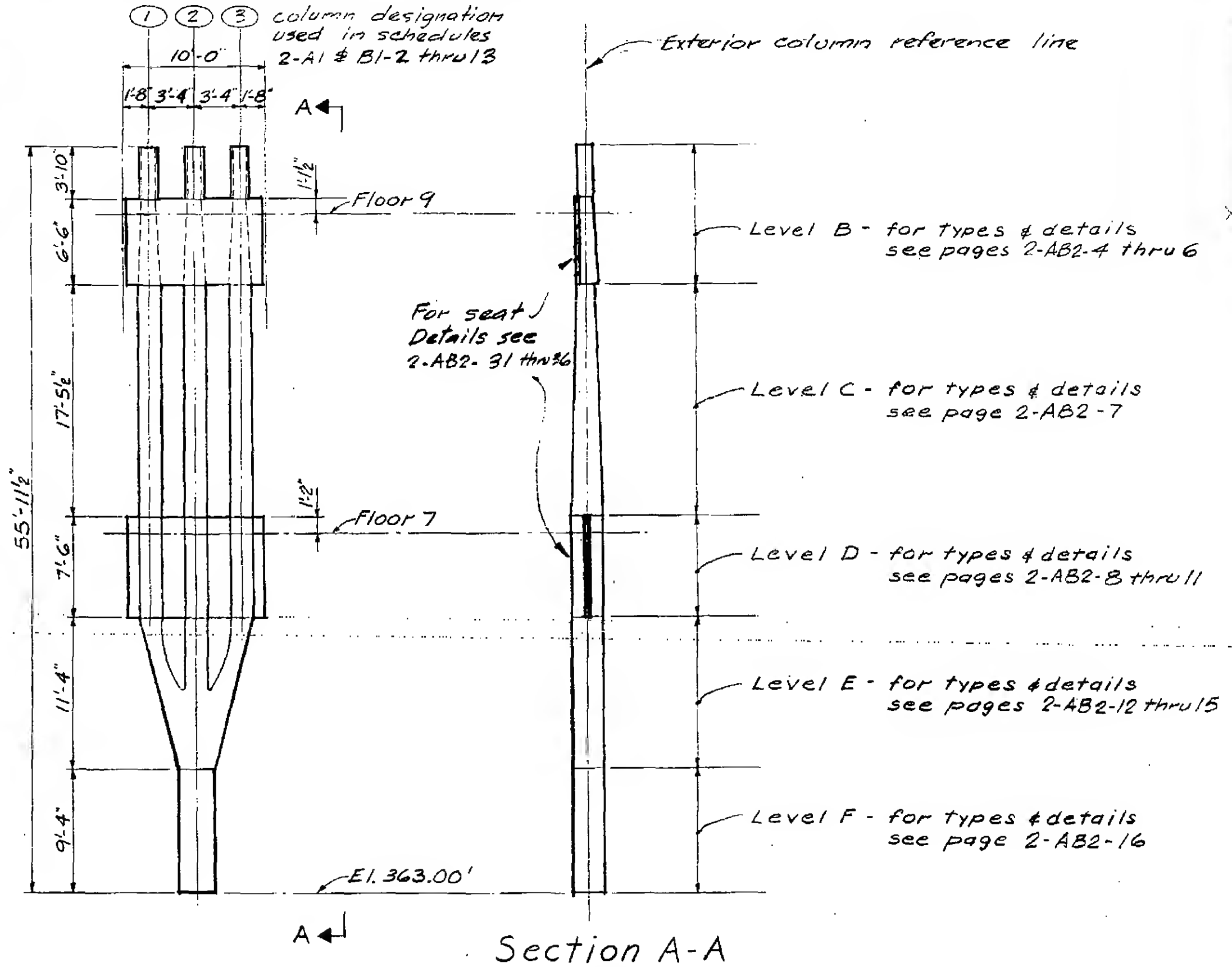


PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - PANEL ELEVATION

DATE 4-7-67

REVISIONS



REVISIONS

SCHEDULE OF WELDING ELECTRODES**

For $F_y = 36$ ksi

- 1.) ASTM A233 class E70xx electrodes
- 2.) Grade SAW-2 Submerged Arc Welding

$36 \leq F_y \leq 50$

- 1.) ASTM A233 class E70xx electrodes
- 2.) Grade SAW-2 Submerged Arc Welding

$50 \leq F_y \leq 55$

- 1.) ASTM A233 class E70xx electrodes
- 2.) Submerged Arc Welding *

$55 \leq F_y \leq 60$

- 1.) ASTM A316 class E80xx electrodes
- 2.) Submerged Arc Welding *

$60 \leq F_y \leq 65$

- 1.) ASTM A316 class E80xx electrodes
- 2.) Submerged Arc Welding *

$65 \leq F_y \leq 70$

- 1.) ASTM A316 class E80xx electrodes
- 2.) Submerged Arc Welding *

$70 \leq F_y \leq 80$

- 1.) ASTM A316 class E90xx electrodes
- 2.) Submerged Arc Welding *

$80 \leq F_y \leq 90$

- 1.) ASTM A316 class E100xx electrodes
- 2.) Submerged Arc Welding *

$90 \leq F_y \leq 100$

- 1.) ASTM A316 class E110xx electrodes
- 2.) Submerged Arc Welding *

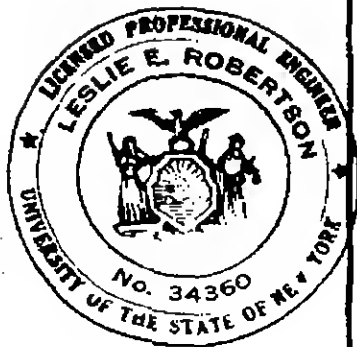
* Submerged arc welding shall conform to the specifications.

** Low hydrogen electrodes shall be used for all manual arc welding.

F_y indicated is the lower F_y of the plates joined

GENERAL NOTES

1. All welding to be done using electrodes as scheduled this sheet.
2. F.P. indicates full penetration weld.



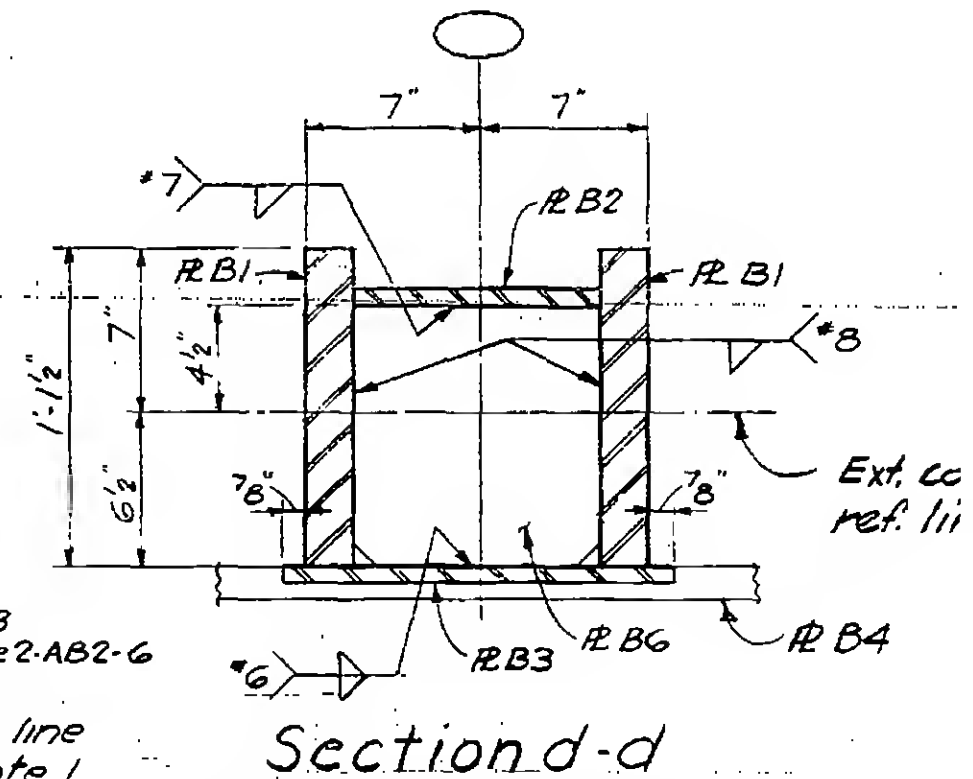
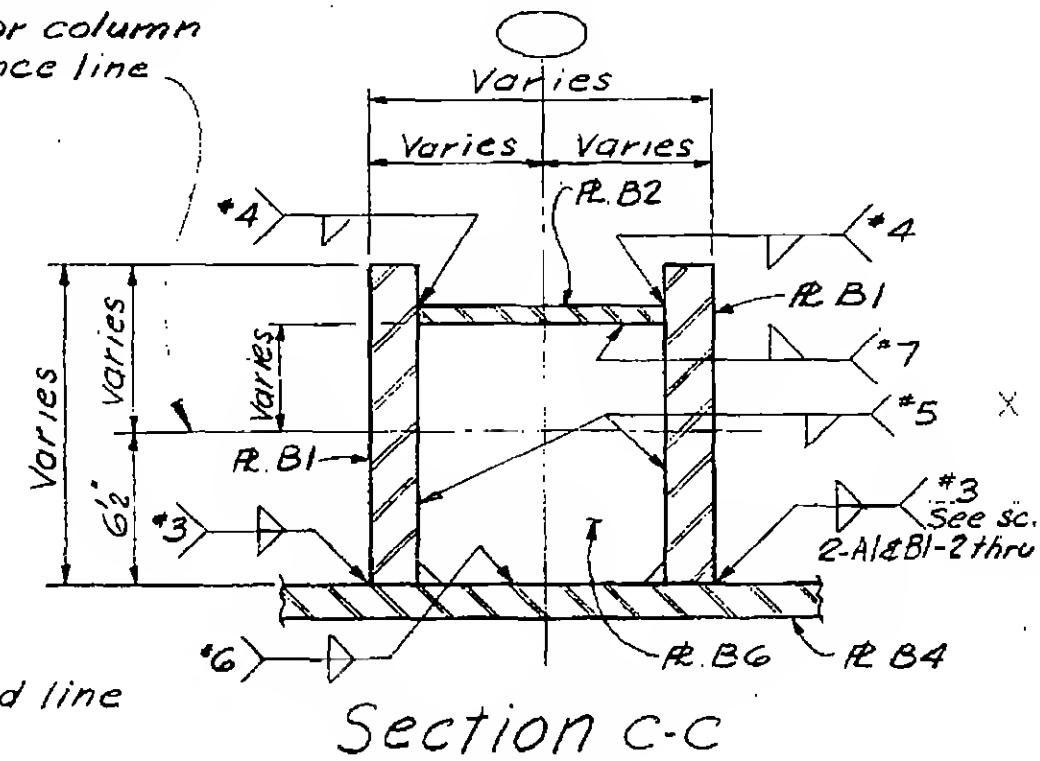
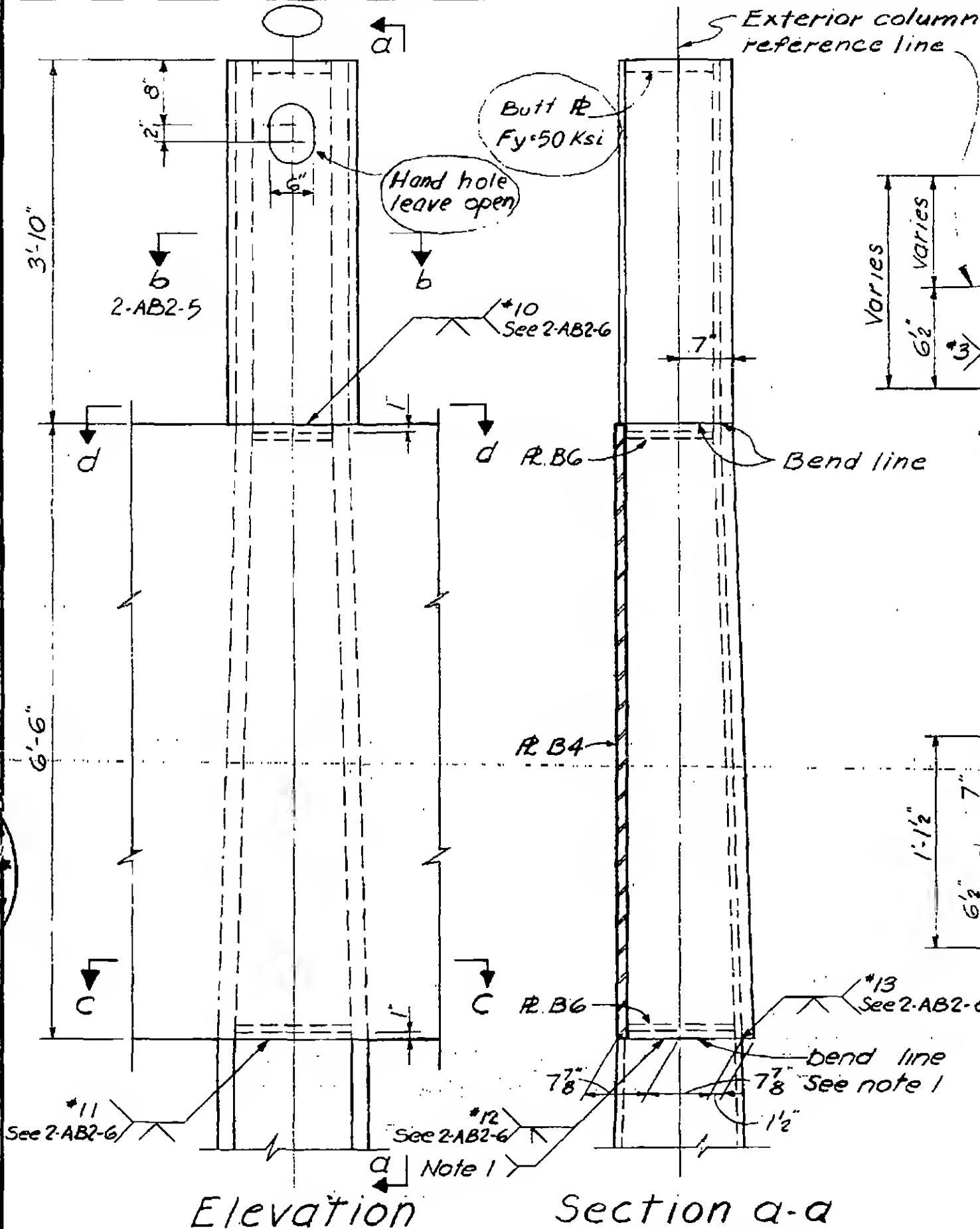
PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - LEVEL B

DATE 4-7-67

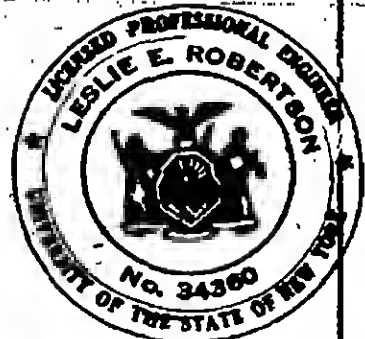
REVISIONS

7-17-67
7-28-67



Elevation

Section a-a



2-AB2-4

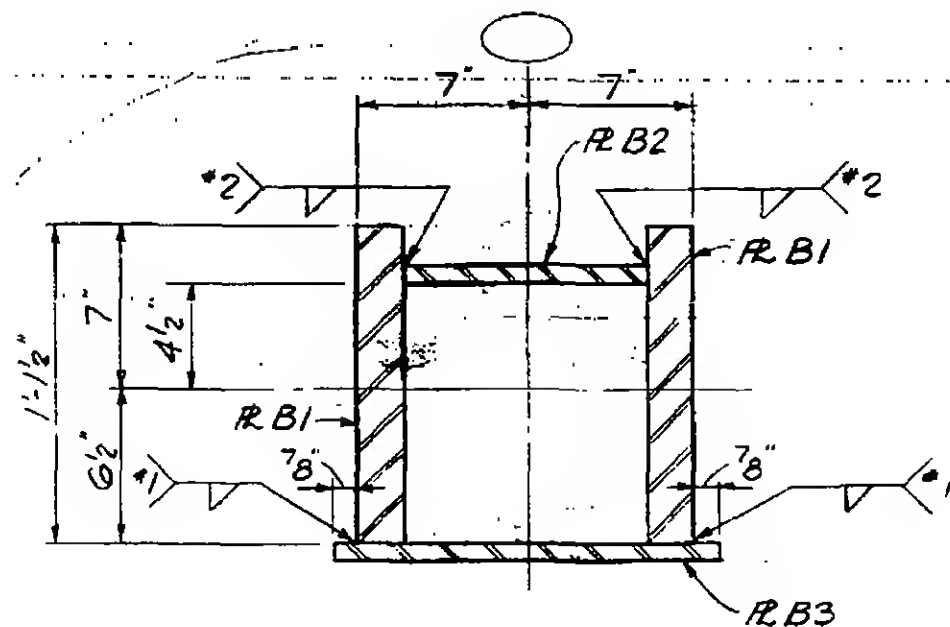
PROJECT **THE WORLD TRADE CENTER**

TITLE EXTERIOR WALL-TREE- LEVEL 13

DATE 4-7-67

REVISIONS

7-28-67

[illegible]

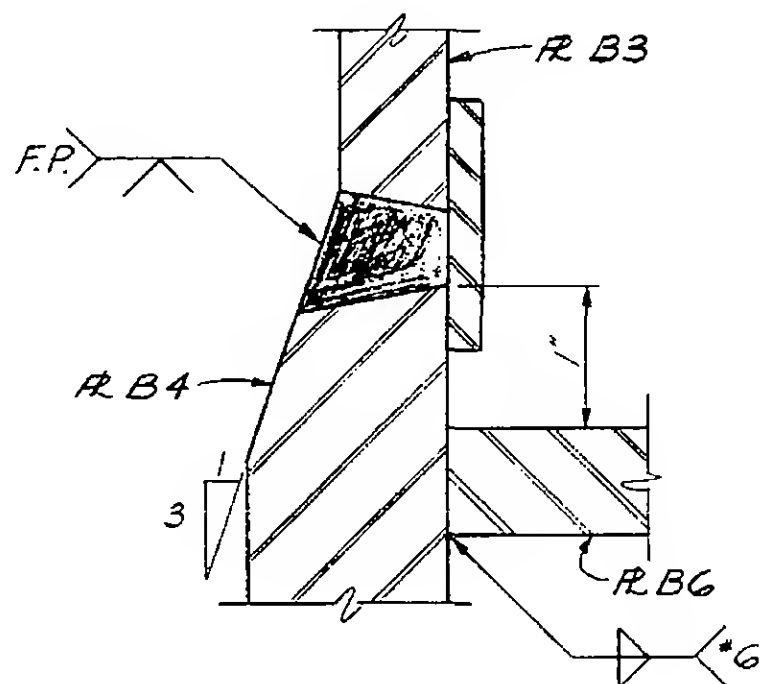
Section b-b

2-AB2-5

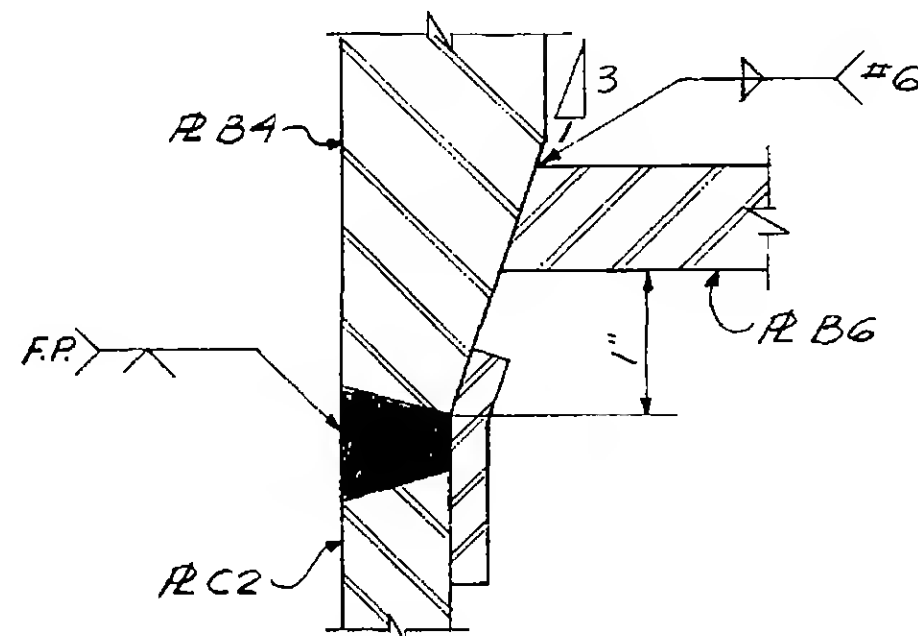


REVISIONS

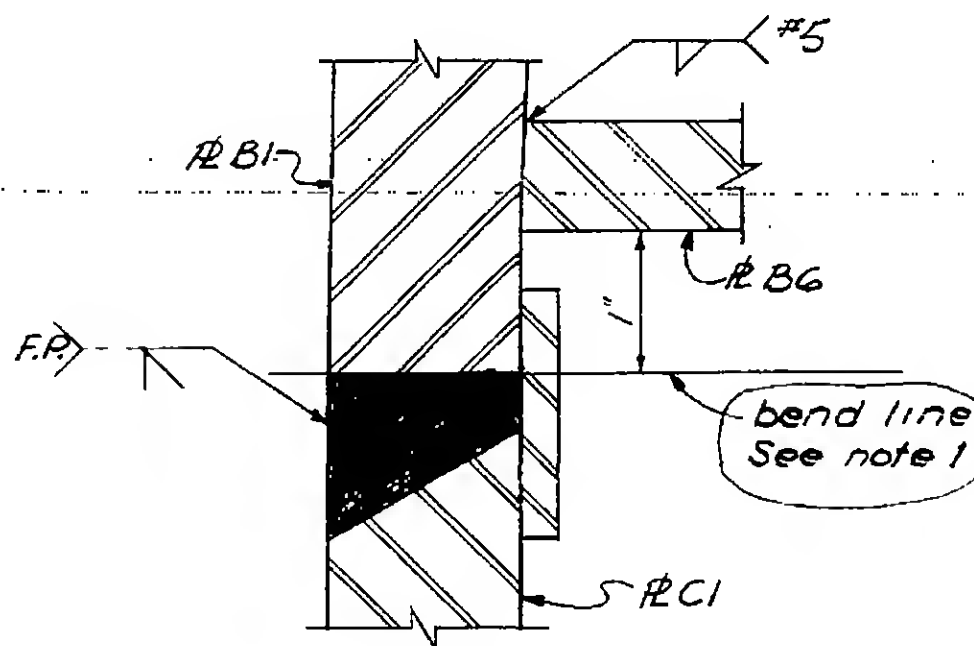
7-17-67



Detail-Weld #10

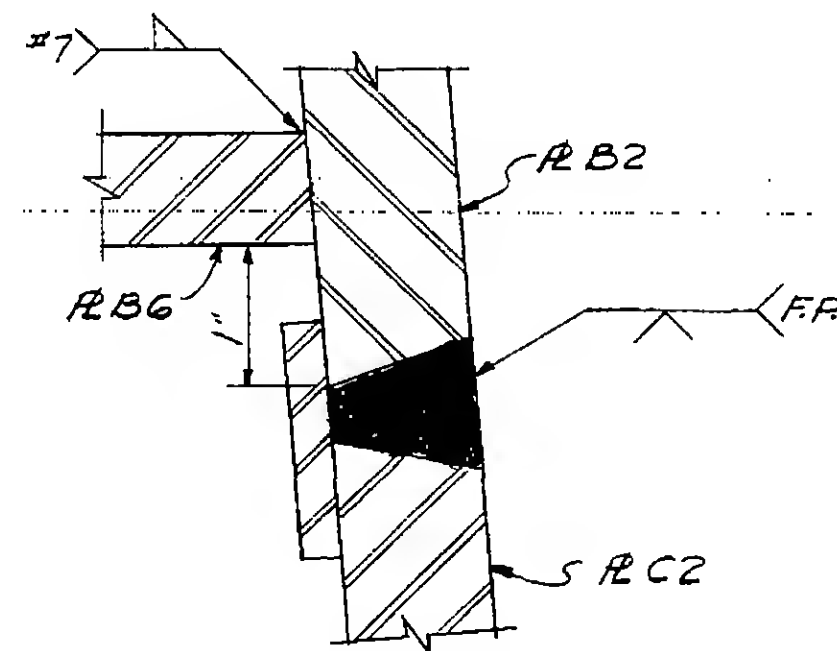


Detail-Weld #11

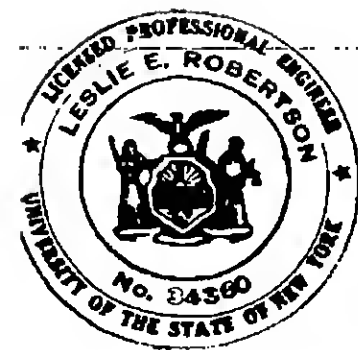


Detail-Weld #12

Note 1: At Fabricators option, RB1 and RC1 may be furnished as one plate and weld #12 omitted.



Detail-Weld #13



PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL-TREE-LEVEL C

DATE 4-7-67

REVISIONS

COLUMN TYPE	PLATE C1	PLATE C2	WELD #1
C02	1 9/16"	7/16"	7/16"
C03	1 5/8"	1 2"	1 2"
C04	1 11/16"	1 2"	1 2"
C05	1 7/8"	9/16"	1 2"
C06	2 1/16"	5/8"	1 2"
C07	2 3/16"	5/8"	1 2"
C08	2 5/16"	1 1/16"	1 2"
C09	2 3/8"	1 1/16"	1 2"
C10	2 7/16"	1 1/16"	1 2"
C11	2 1/2"	3/4"	1 2"
C12	2 3/4"	1 3/16"	9/16"
C13	2 15/16"	7/8"	9/16"
C14	3	7/8"	9/16"
C15	3 1/8"	1 5/16"	9/16"
C16	3 1/4"	1 5/16"	9/16"
C17	3 3/8"	1"	9/16"
C18	3 7/16"	1"	9/16"
C19	3 1/2"	1"	9/16"

9 3/8" 9 3/8" Exterior column S reference line 7 1/8" 7 1/8"

For splice see details 10 thru 13 2-AB2-6

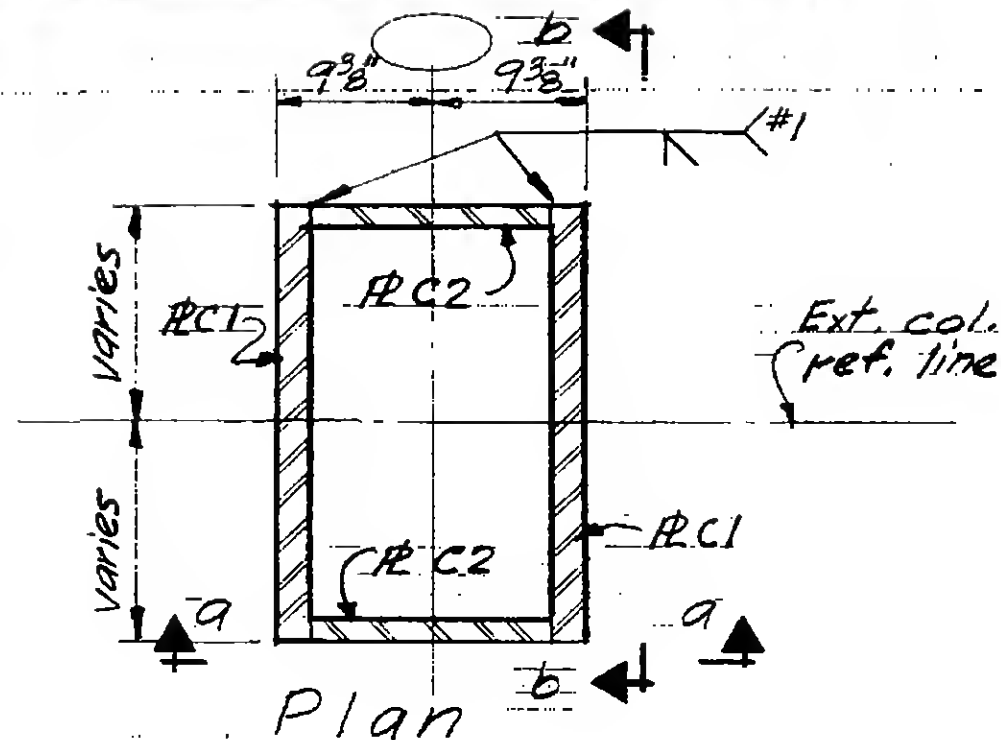
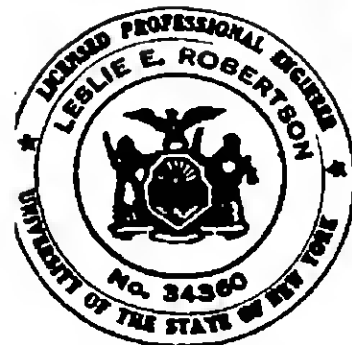
see elevation 2-AB2-2

(For splice see details 7B10 & 11 (2-AB2-10))

9 3/8" 9 3/8" Elevation a-a

1 1/2" 1 1/2" Elevation b-b

2-AB2-7

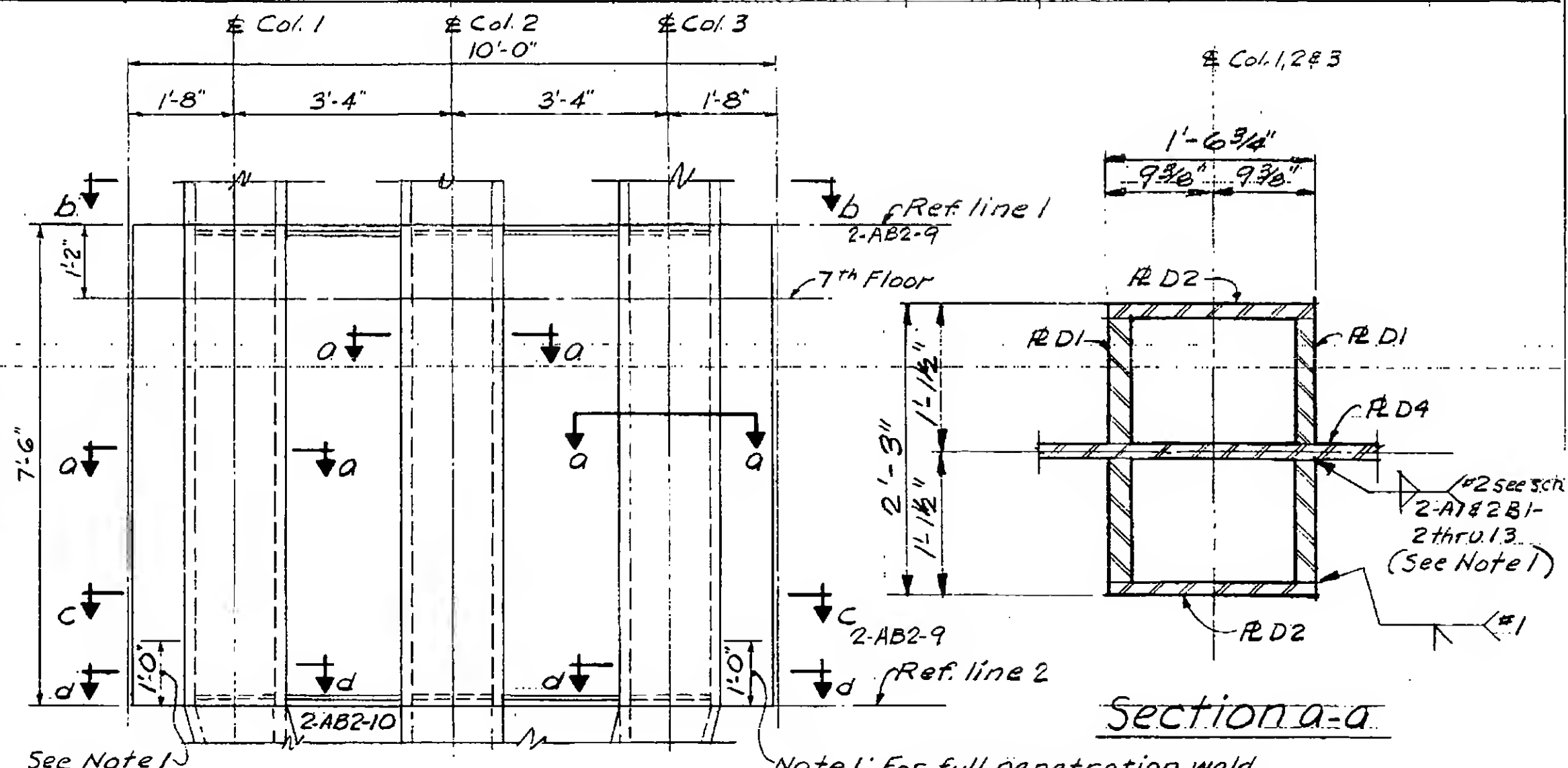


PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - LEVEL D

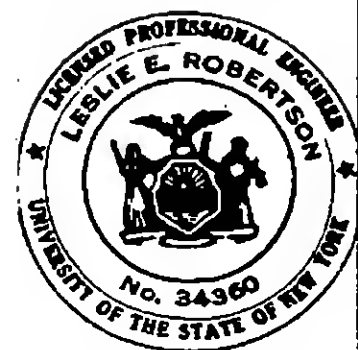
DATE 4-7-67

REVISIONS	COLUMN TYPE	PLATE D1	PLATE D2	PLATE D5	PLATE D6	WELD #1	WELD #3	WELD #4	WELD #5
	D02	1 1/4"	1/2"	1/2	5/8	1/2	3/8	3/8	3/8
	D03	1 3/8"	9/16"	1/2	3/4	1/2	3/8		3/8
	D04	1 3/4"	5/8"	1/2	3/4	1/2	3/8		3/8
	D05	1 3/4"	11/16"	1/2	7/8	1/2	3/8		3/8
	D06	1 3/4"	3/4"	1/2	3/4"	1/2	3/8		3/8
	D07	2 1/4"	7/8"	5/8	3/4"	9/16	3/8		3/8
	D08	2 1/2"	15/16"	3/4	7/8"	9/16	1/2		1/2
	D09	2 5/8"	1"	3/4	1"	9/16	1/2		1/2
	D10	2 3/4"	1"	3/4	1"	9/16	1/2		1/2
	D11	2 7/8"	1"	3/4	1"	9/16	1/2	3/8	1/2

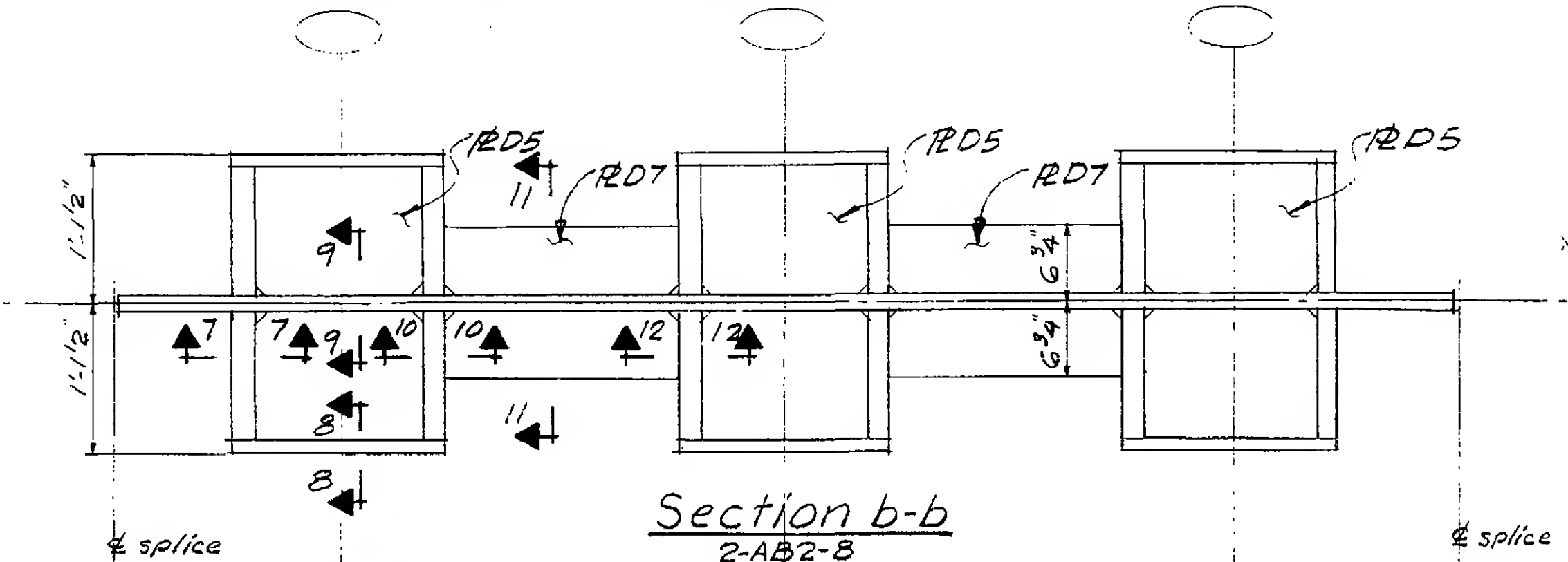


Section a-a

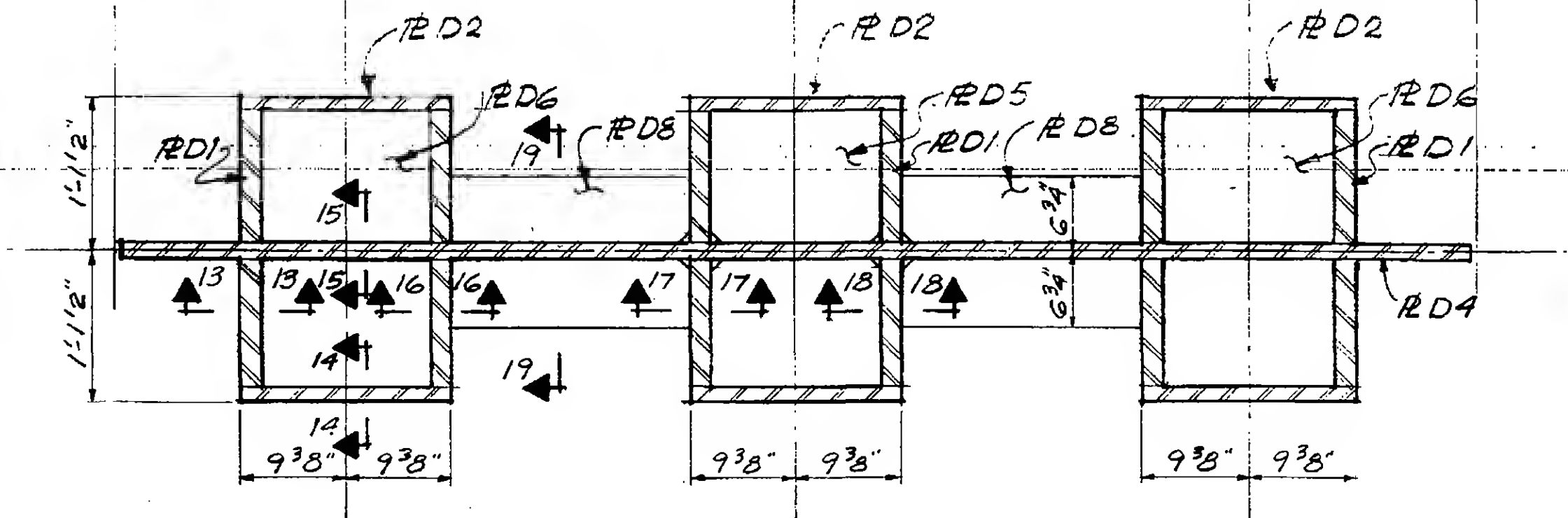
2-AB2-8



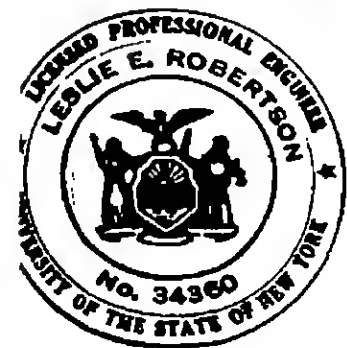
REVISIONS



Section b-b
2-AB2-8

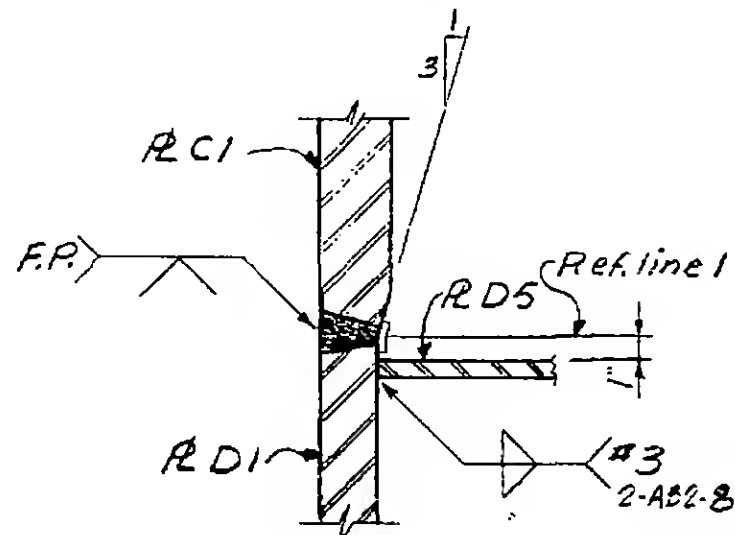


Section C-C
2-AB2-B

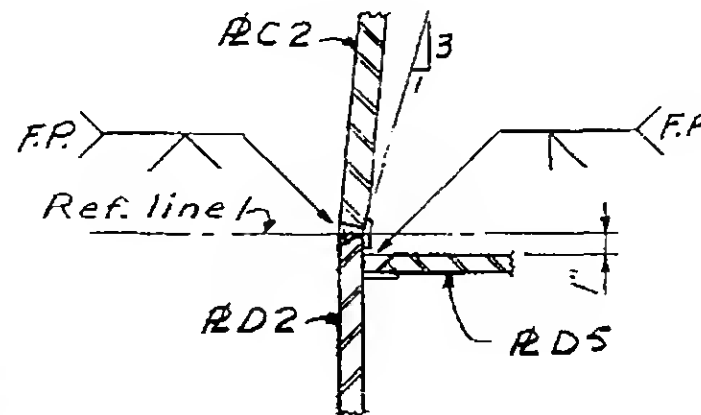


2-AB2-9

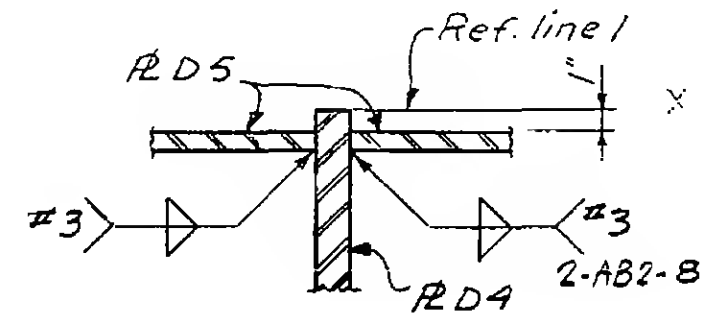
REVISIONS



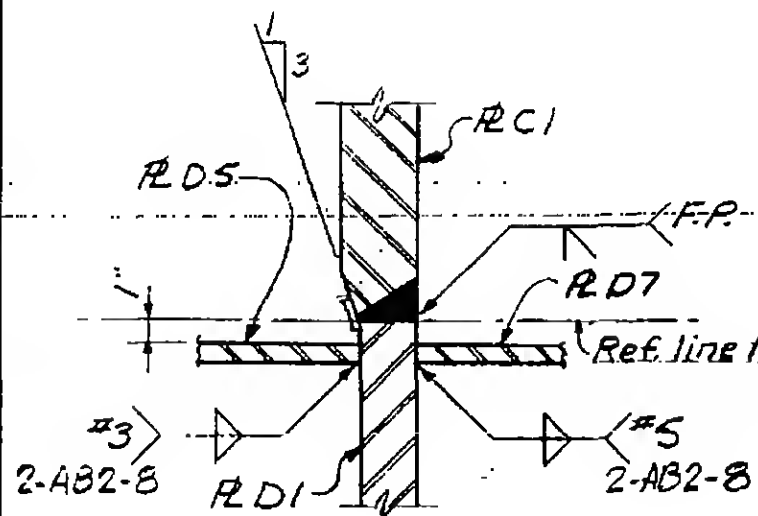
Detail 7



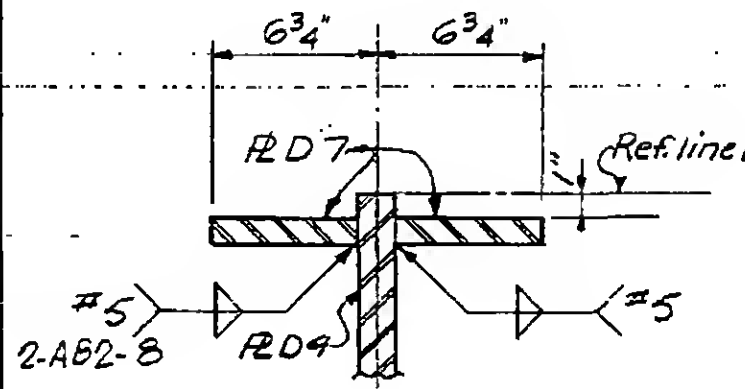
Detail 8



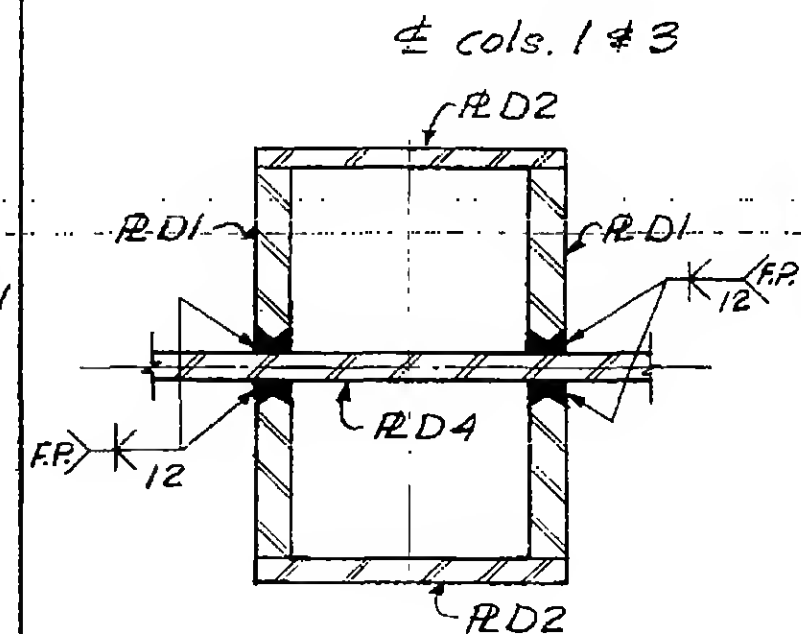
Detail 9



Detail 10
Detail 12 opp. hand



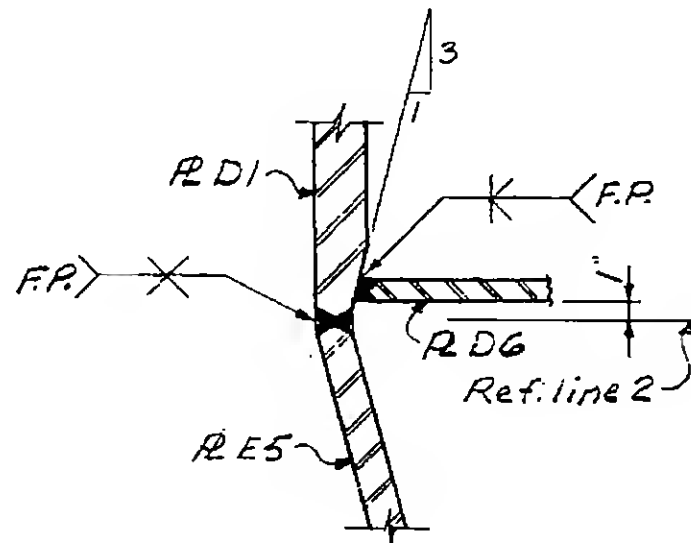
Detail 11



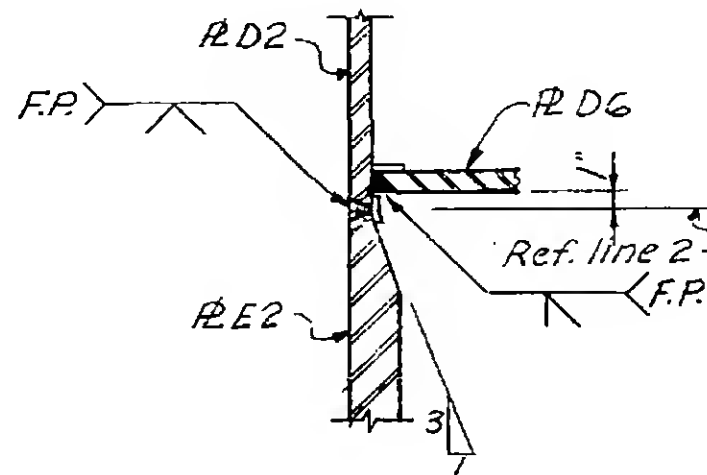
Section d-d



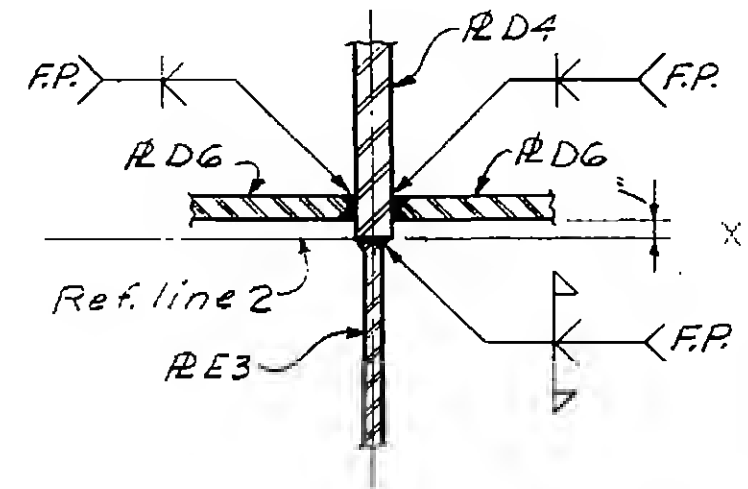
REVISIONS



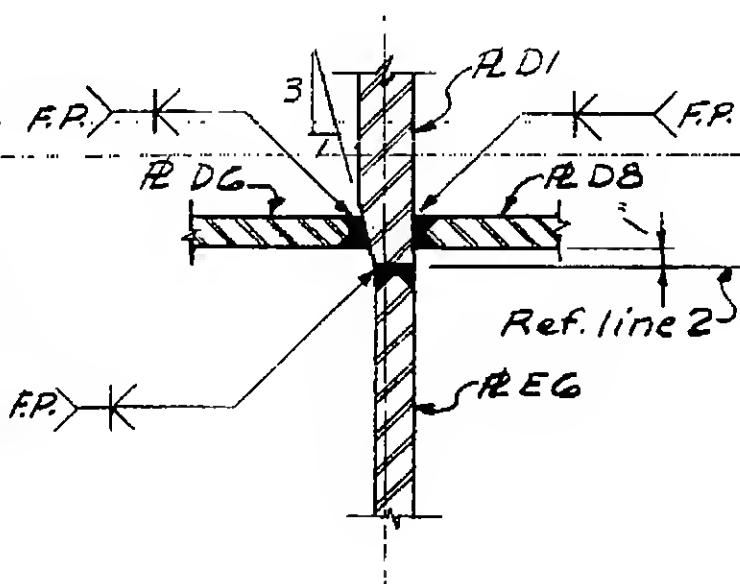
Detail 13



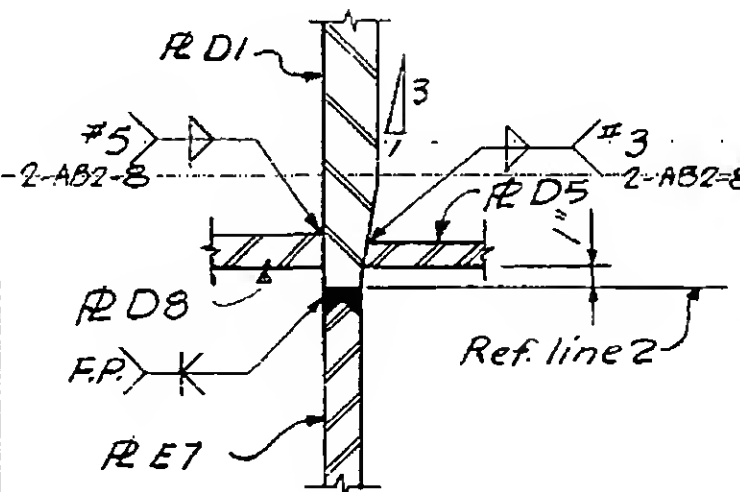
Detail 14



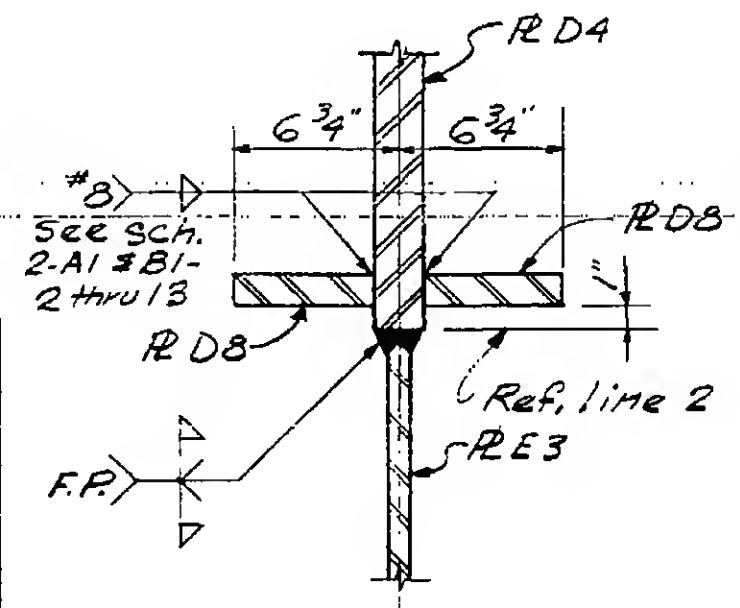
Detail 15



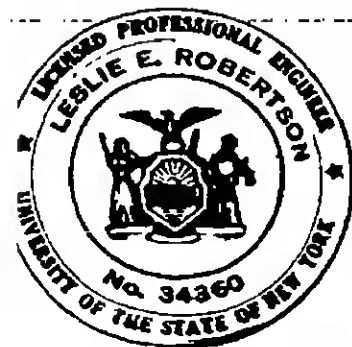
Detail 16



Detail 17
Detail 18 opp. hand

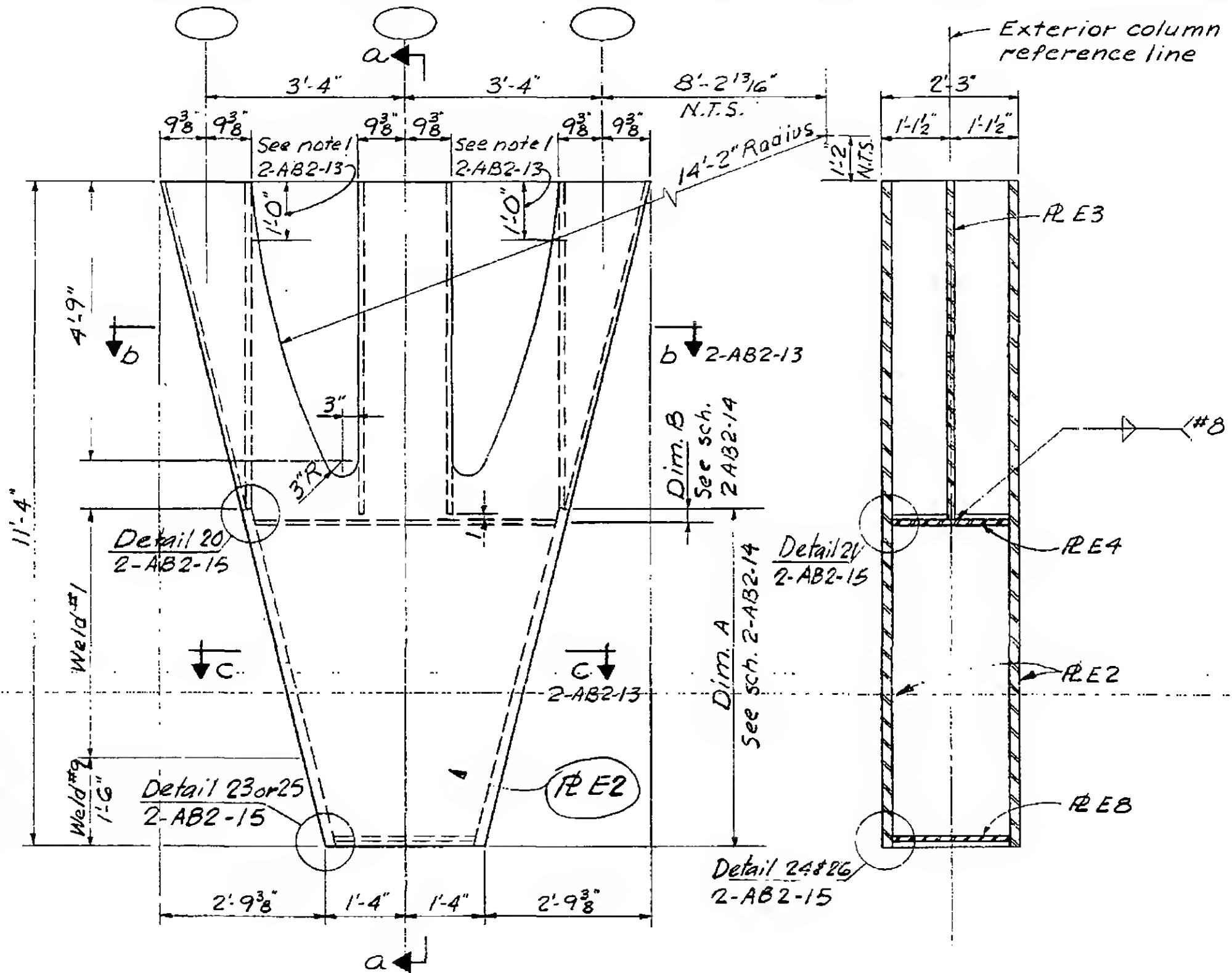


Detail 19



REVISIONS

12-18-67

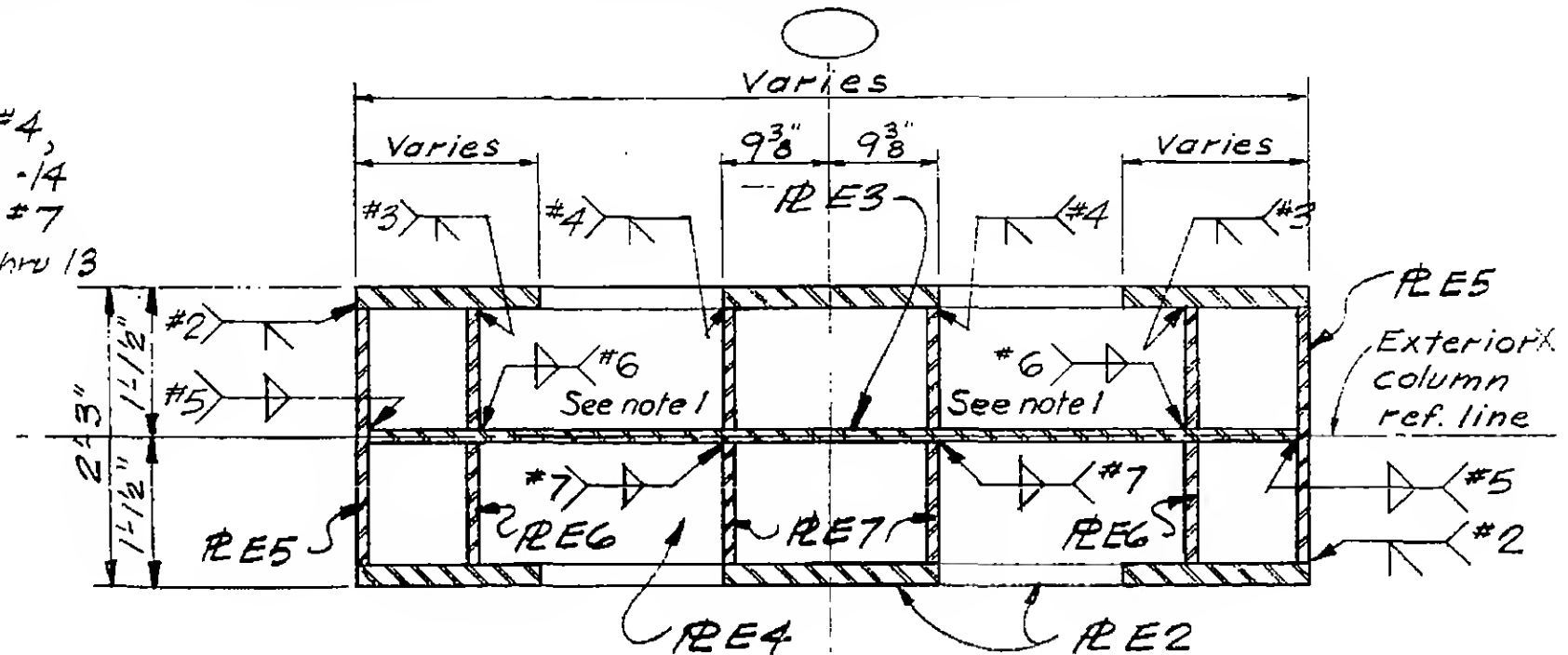


Section a-a



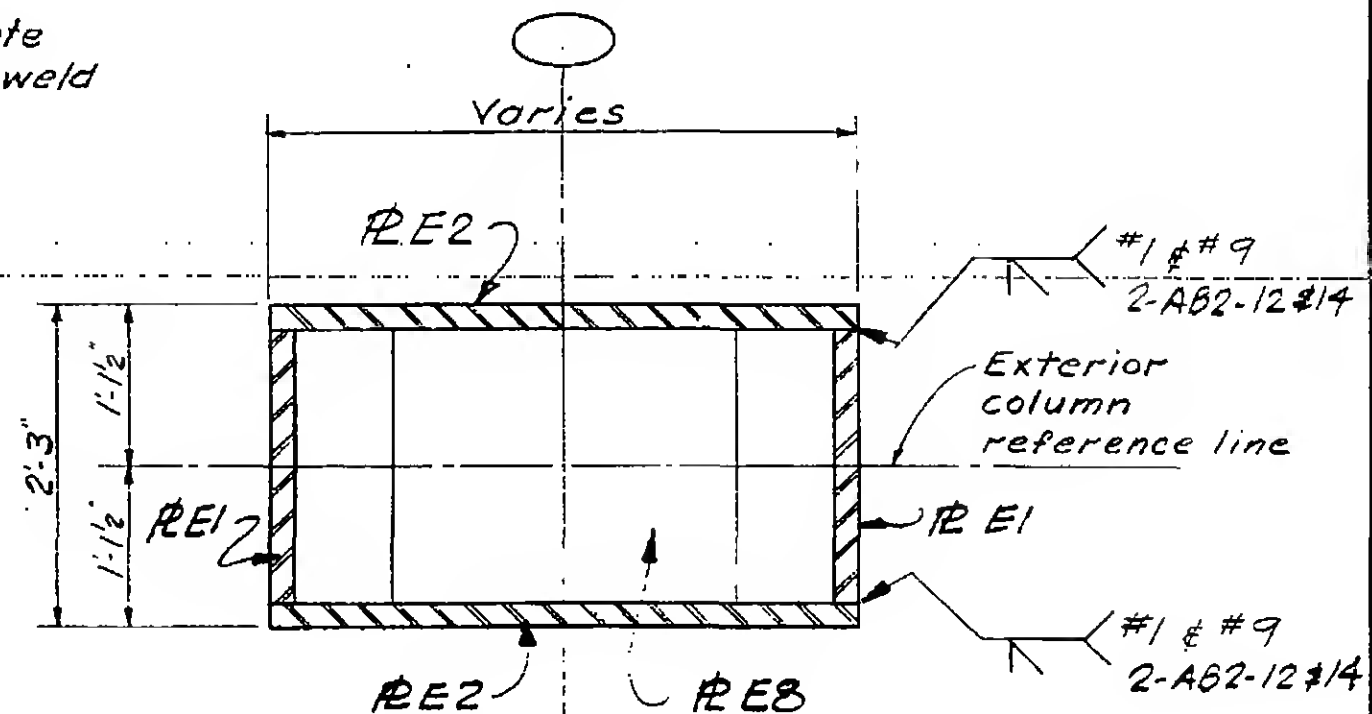
REVISIONS

Note: For welds #1 thru #4,
#8 & #9 see 2-AB2-14
For welds #5 thru #7
see sch. 2-A1 & B1-2 thru 13

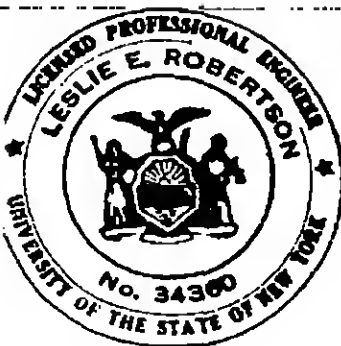


Section b-b

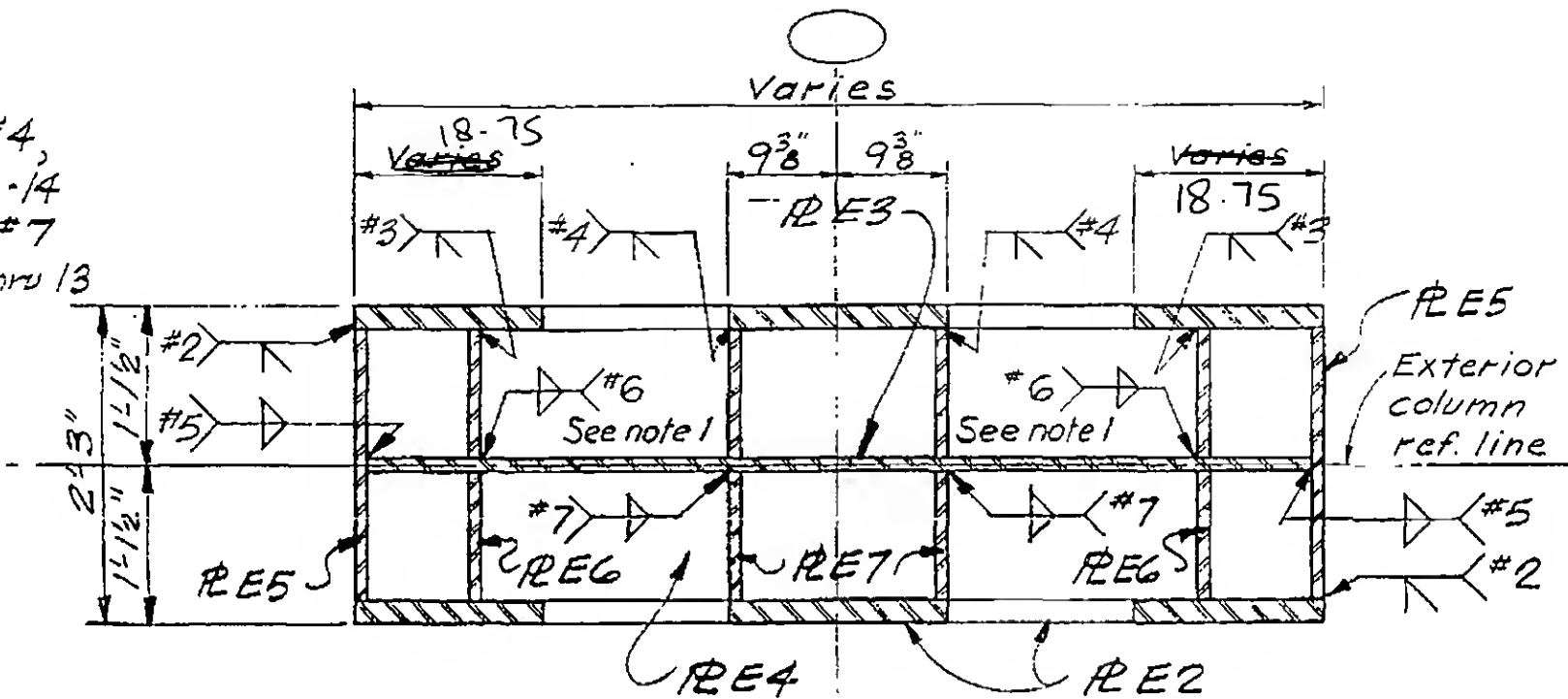
Note 1
Double bevel complete
penetration groove weld
12" long at top.



Section c-c

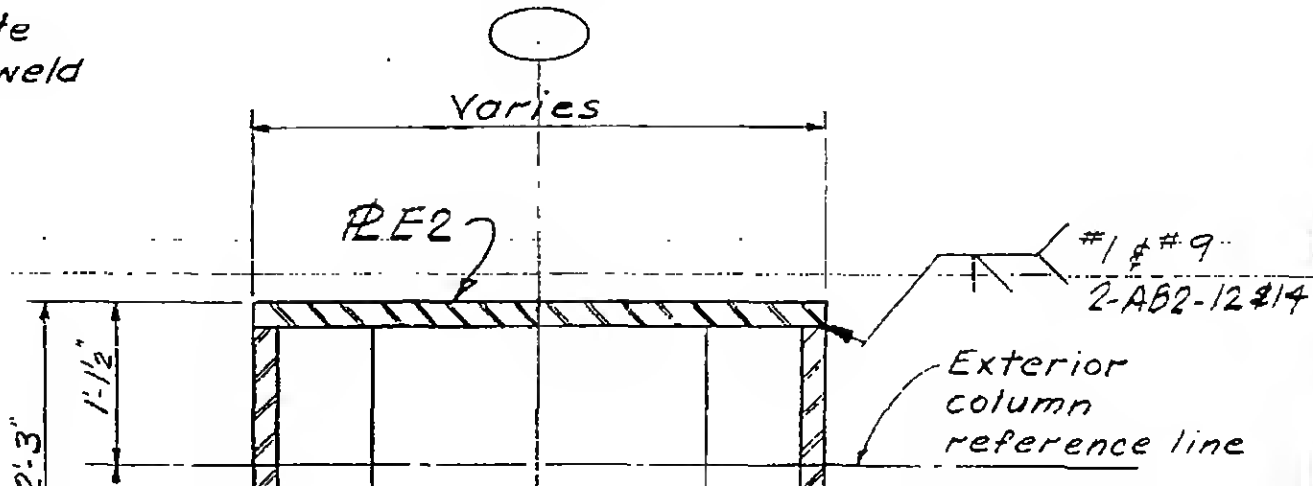


welds #1 thru #4,
#9 see 2-AB2-14
welds #5 thru #7
sch. 2-A1 & B1-2 thru 13



Section b-b

Note 1
Double bevel complete
penetration groove weld
12" long at top.



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - LEVEL E

DATE 4-7-67

REVISIONS

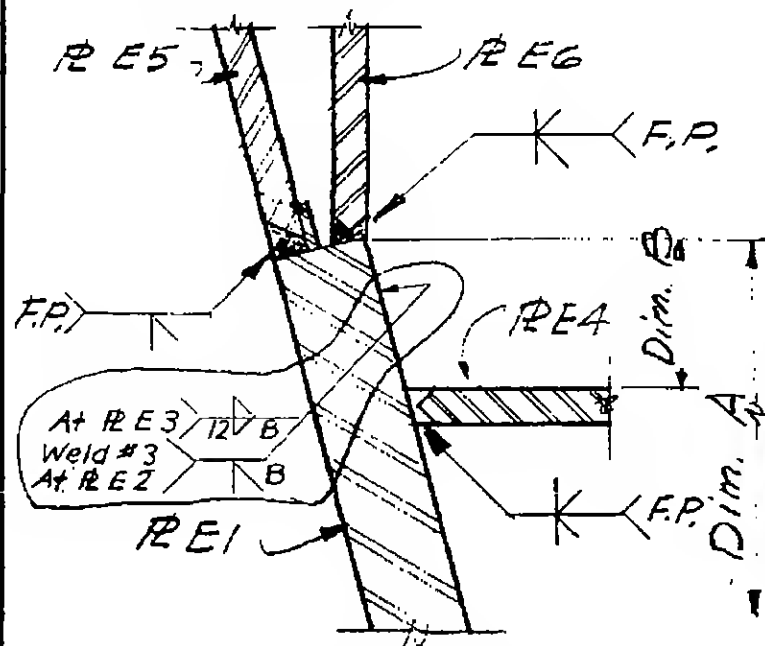
TYPE	R E1	R E2	R E3	R E4	R E5	R E6	R E7	R E8	WELD #1	WELD #2	WELD #3	WELD #4	WELD #5	WELD #9	DIM. A	DIM. B
E04	2 1/4"	1"	3/4	1/2	1 3/16	1 3/16	1 3/16	7/8	5/8	9/16	9/16	9/16	3/8	3/4	5'-9"	1"
E05	2 3/8"	1"	1	1/2	7/8	7/8	7/8	7/8	5/8	9/16	9/16	9/16	1	3/4	5'-9 1/2"	1"
E06	2 5/8"	1 1/8"	1	3/4	7/8	7/8	7/8	1	5/8	9/16	9/16	9/16	1	3/4	5'-10 1/2"	1"
E07	3 1/4"	1 3/8"	1	3/4	1 3/16	1 3/16	1 3/16	1 1/4	5/8	5/8	5/8	5/8	1	7/8	6'-1 1/8"	1 1/4"
E08	3 3/8"	1 3/8"	1	3/4	1 3/16	1 3/16	1 3/16	1 1/4	5/8	5/8	5/8	5/8	1	7/8	6'-1 3/4"	1"
E09	3 3/8"	1 1/2"	1	3/4	1 3/16	1 3/16	1 3/16	1 1/4	1 1/16	5/8	5/8	5/8	1	7/8	6'-1 3/4"	1"
E10	3 1/2"	1 1/2"	1	3/4	1 3/16	1 3/16	1 3/16	1 3/8	1 1/16	5/8	5/8	5/8	1	7/8	6'-2 1/4"	1"
E11	3 5/8"	1 1/2"	3/4	3/4	1 3/16	1 3/16	1 3/16	1 3/8	1 1/16	5/8	5/8	5/8	3/8	7/8	6'-2 3/4"	1"
E13	4 1/4"	1 7/8"	3/4	3/4	1 1/2	1 1/2	1 1/2	1 1/2	3/4	1 1/16	1 1/16	1 1/16	3/8	1	6'-5 3/8"	2 3/8"
E14	4 1/4"	2 1/2"	1	3/4	1 3/16	1 3/16	1 3/16	1 1/2	1 3/16	5/8	5/8	5/8	1	1	6'-5 3/8"	2 3/8"
E15	4 1/2"	2 1/2"	1	7/8	1 3/16	1 3/16	1 3/16	1 1/2	1 3/16	5/8	5/8	5/8	1	1	6'-6 3/8"	2 3/8"
E16	4 3/4"	2 1/4"	1	7/8	1 3/4	1 3/4	1 3/4	1 5/8	3/4	3/4	3/4	3/4	1	1	6'-7 1/2"	4 1/2"
E17	5"	2 3/4"	1	1	1 3/4	1 3/4	1 3/4	1 3/4	7/8	3/4	3/4	3/4	1 1/8	1 1/8	6'-8 1/2"	5 1/2"
E18	5"	2 7/8"	1	1	1 3/4	1 3/4	1 3/4	1 3/4	7/8	3/4	3/4	3/4	1 1/8	1 1/8	6'-8 1/2"	5 1/2"
E19	5"	3"	3/4	1	1 7/8	1 7/8	1 7/8	1 3/4	7/8	3/4	3/4	3/4	3/8	1 1/8	6'-8 1/2"	5 1/2"



2-AB2-14

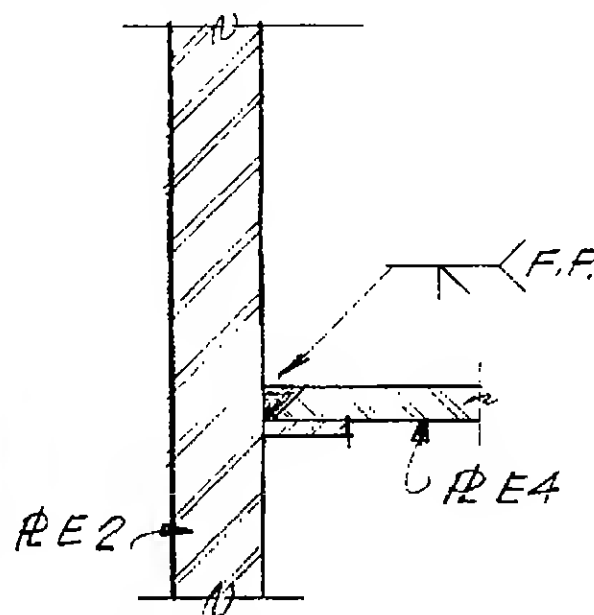
REVISIONS

12-18-67



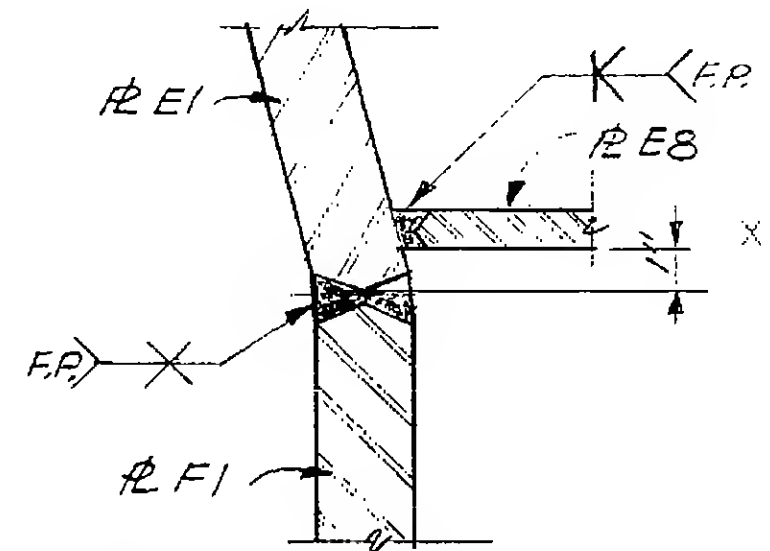
Note: See 2-AB2-12 for plates and dim. A & B

DETAIL 20



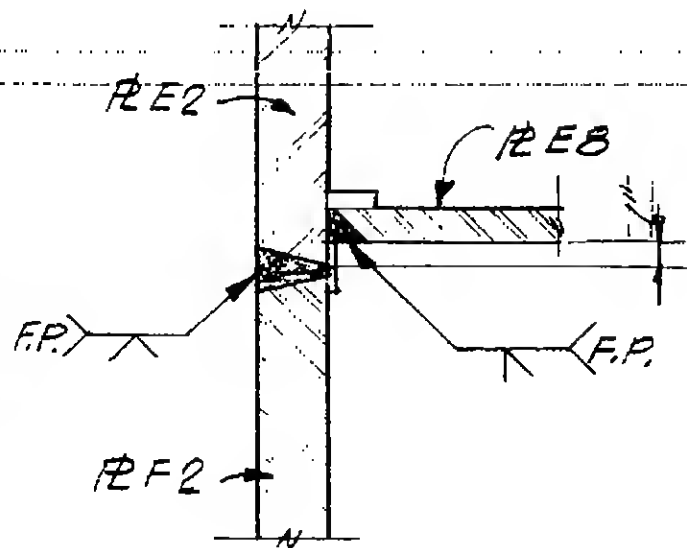
Note: There is no weld inside center column

DETAIL 21

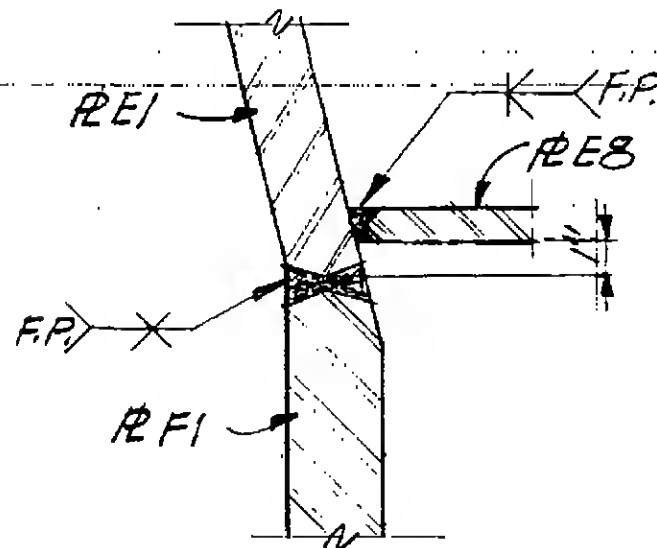


Note: RE1 & RF1 may be furnished as one R. bent.

DETAIL 23

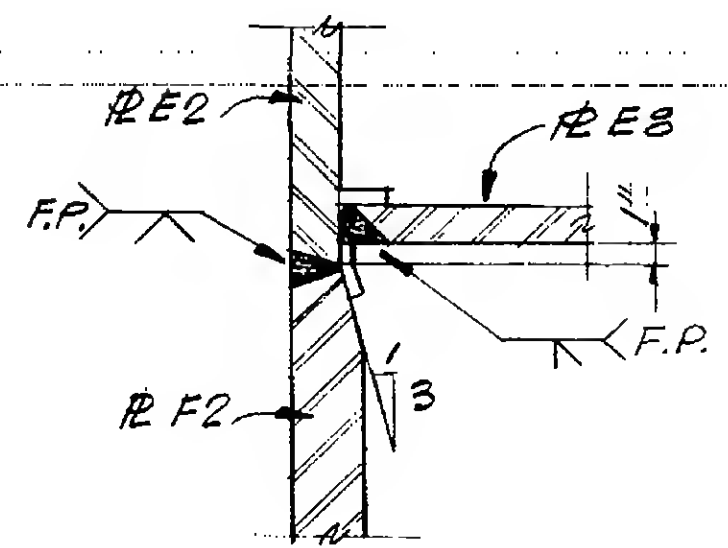


DETAIL 24



DETAIL 25

Use for type F20 & F21 only



DETAIL 26

Use for type F20 & F21 only



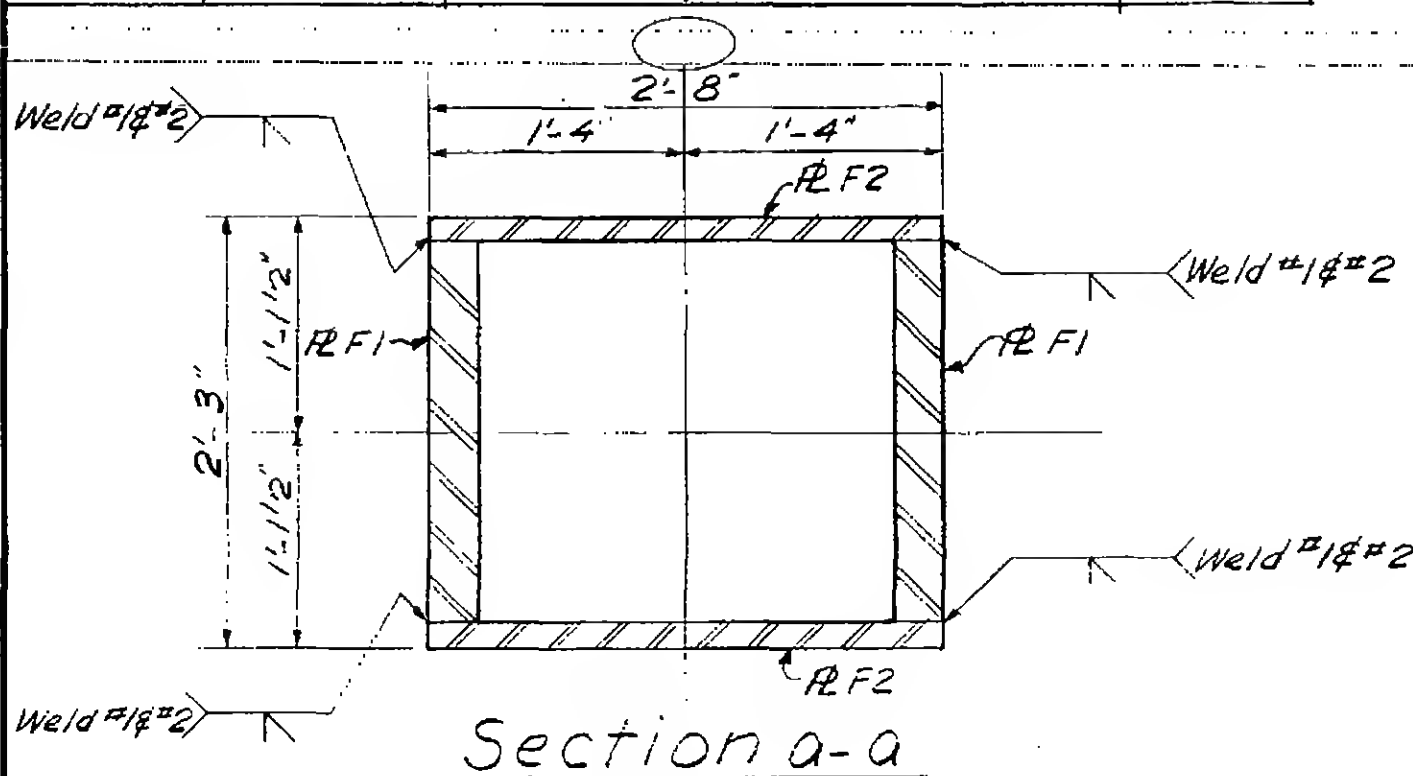
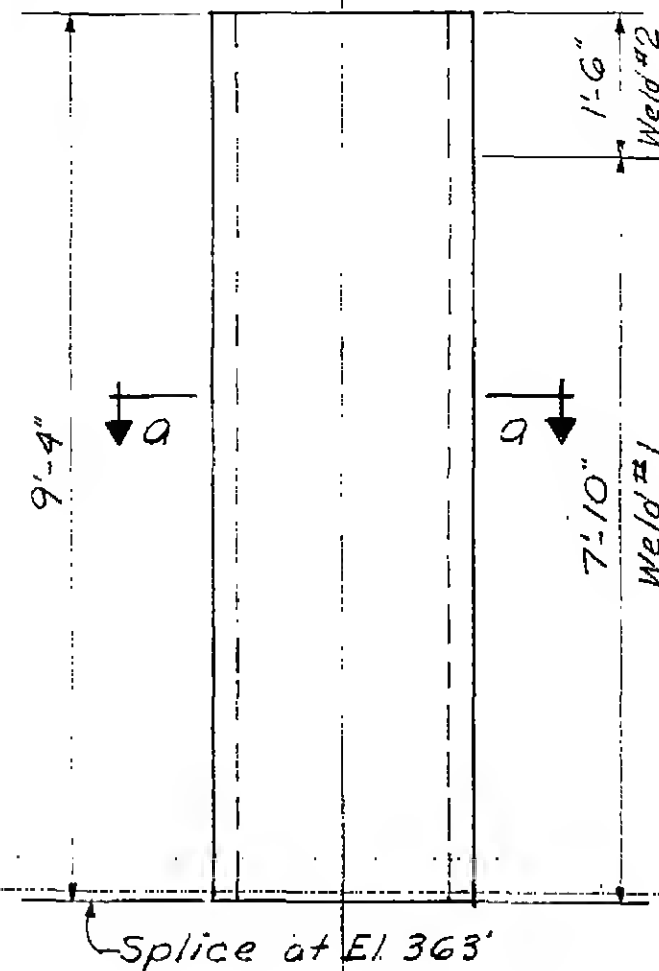
PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - LEVEL F

DATE 4-7-67

REVISIONS

COLUMN TYPE	PLATE F1	PLATE F2		WELD #1	WELD #2
F04	2 1/4"	1"		5/8"	3/4"
F05	2 3/8"	1"		5/8"	3/4"
F06	2 5/8"	1 1/8"		5/8"	3/4"
F07	3 1/4"	1 3/8"		5/8"	7/8"
F08	3 3/8"	1 3/8"		5/8"	7/8"
F09	3 3/8"	1 1/2"		1 1/16"	7/8"
F10	3 1/2"	1 1/2"		1 1/16"	7/8"
F11	3 5/8"	1 1/2"		1 1/16"	7/8"
F13	4 1/4"	1 7/8"		3/4"	1"
F14	4 1/4"	2 1/2"		1 3/16"	1"
F15	4 1/2"	2 1/2"		1 3/16"	1"
F16	4 3/4"	2 1/4"		3/4"	1"
F17	5"	2 3/4"		7/8"	1 1/8"
F18	5"	2 7/8"		7/8"	1 1/8"
F19	5"	3"		7/8"	1 1/8"
F20	6"	5"		1 1/8"	1 3/8"
F21	6"	5 5/8"		1 1/8"	1 3/8"



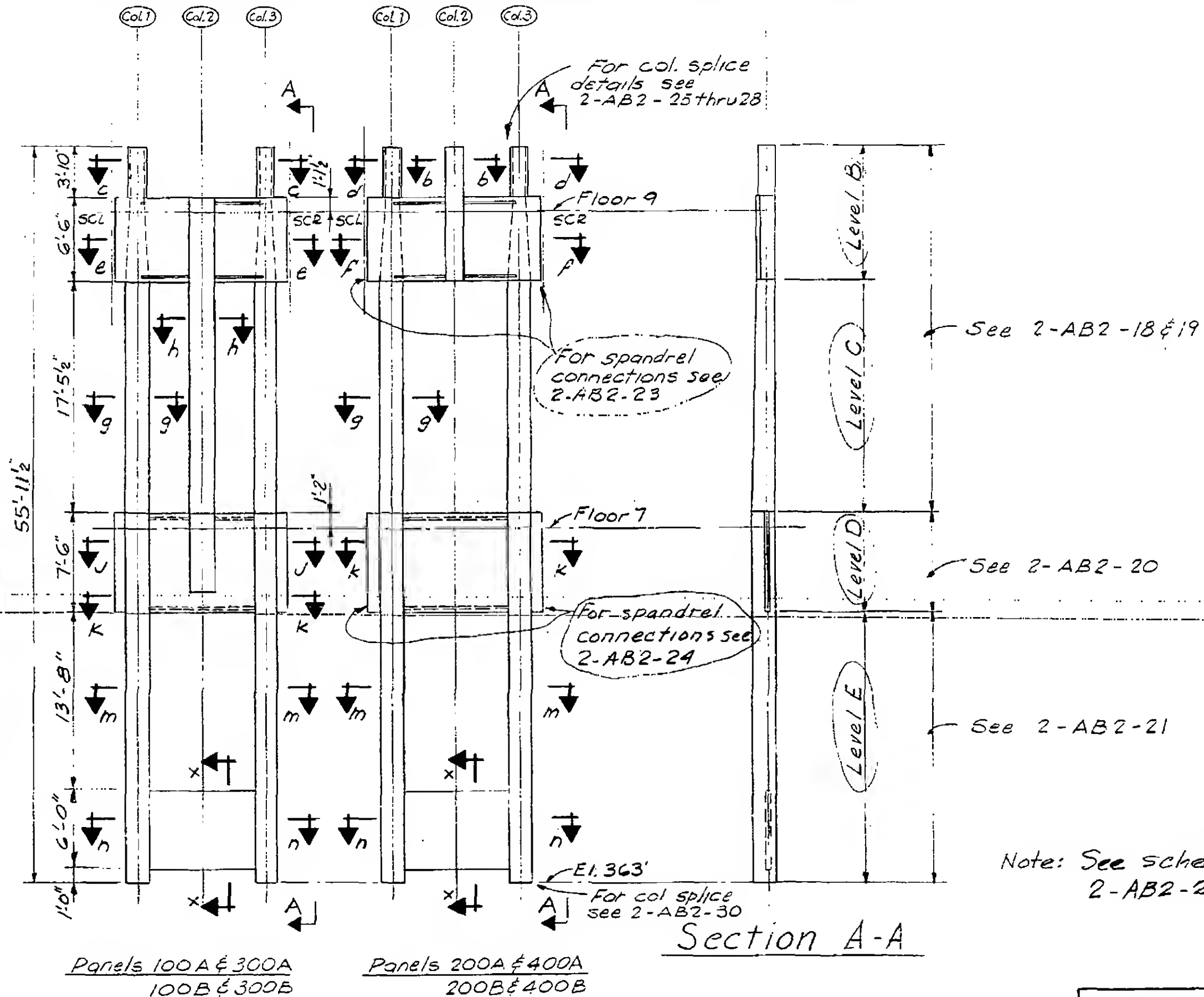
PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL-TREE-CORNER PANEL ELEVATIONS

DATE 4-7-67

REVISIONS

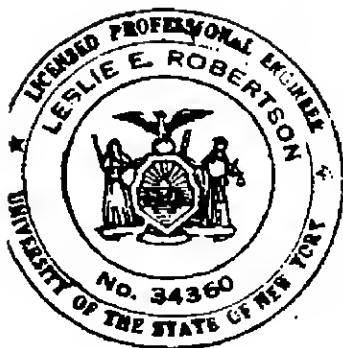
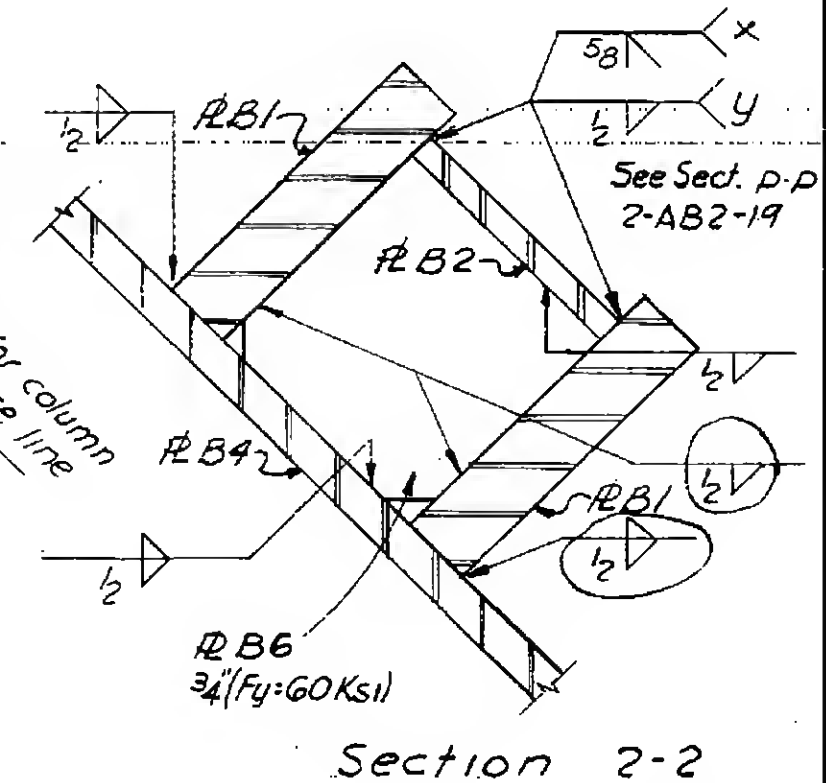
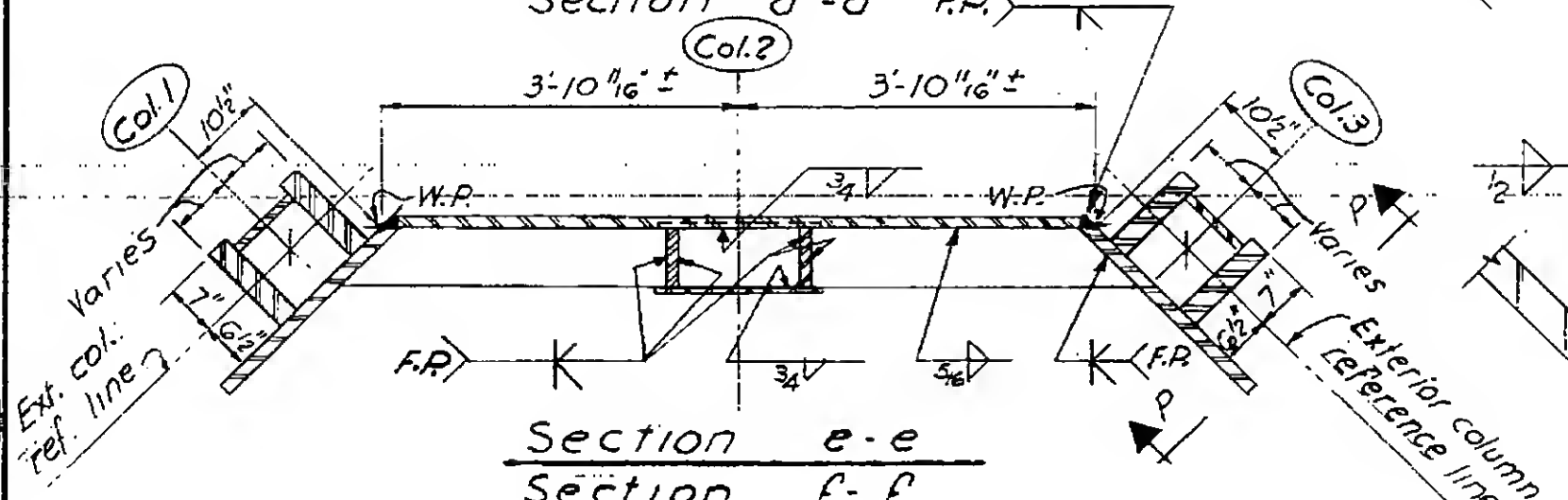
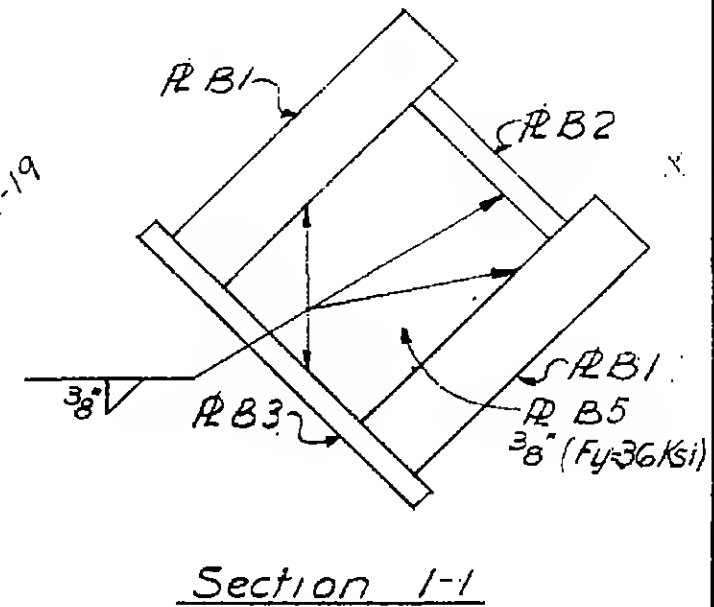
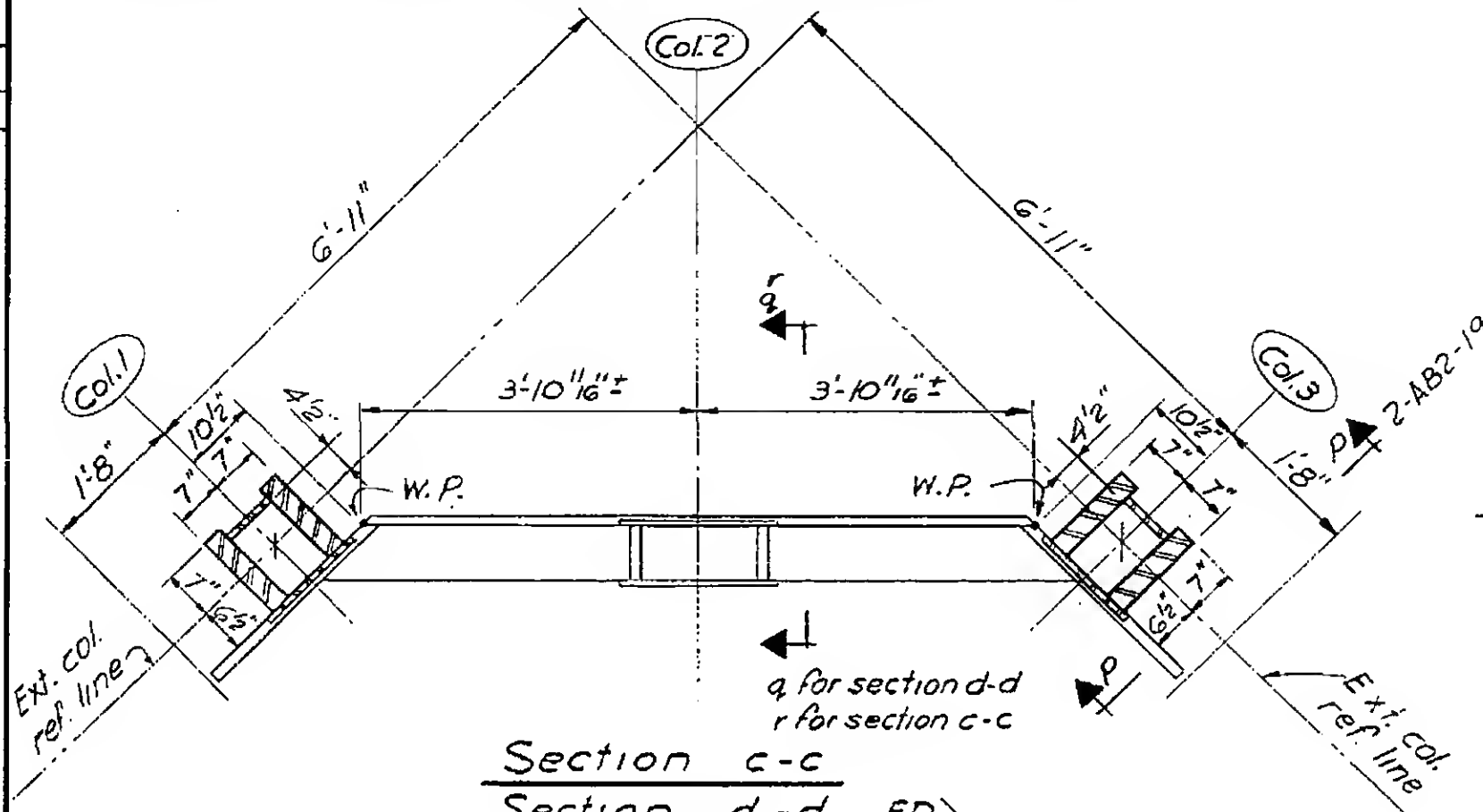
7-25-67



REVISIONS

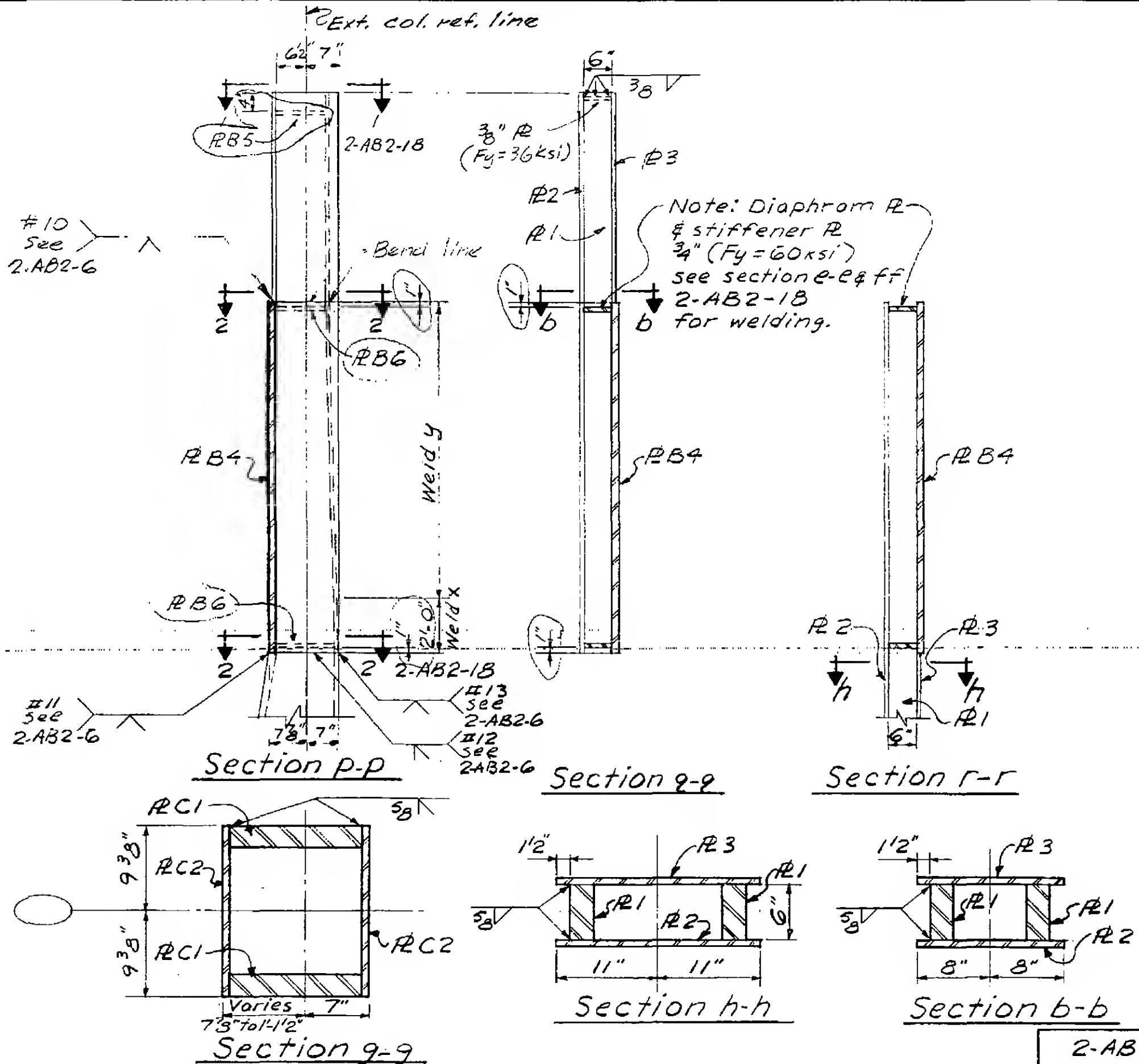
7-25-67

12-18-67

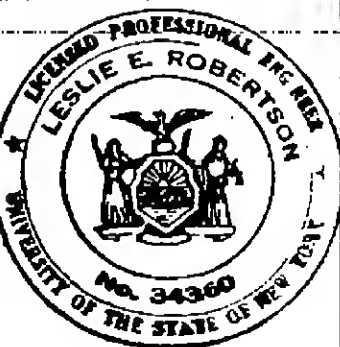


REVISIONS

7-25-67

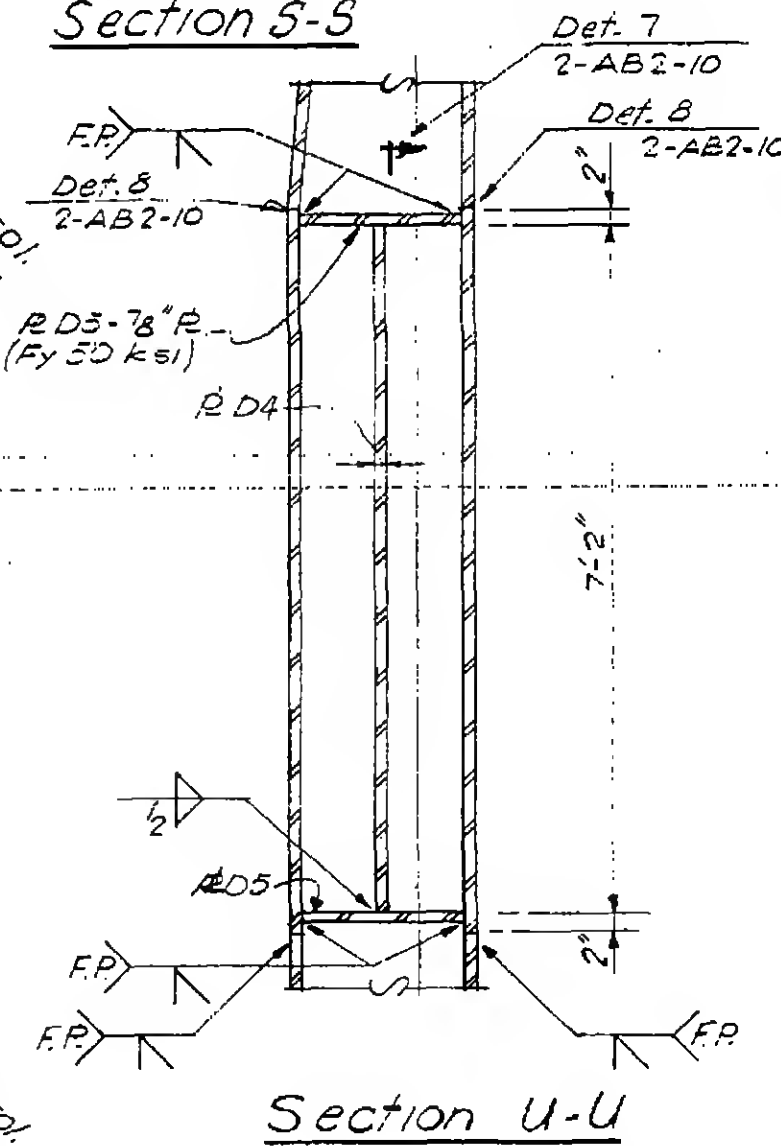
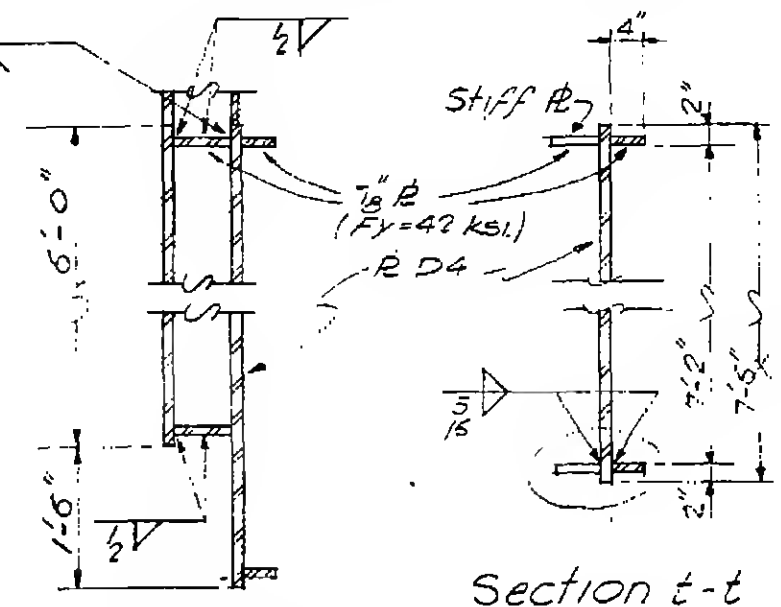
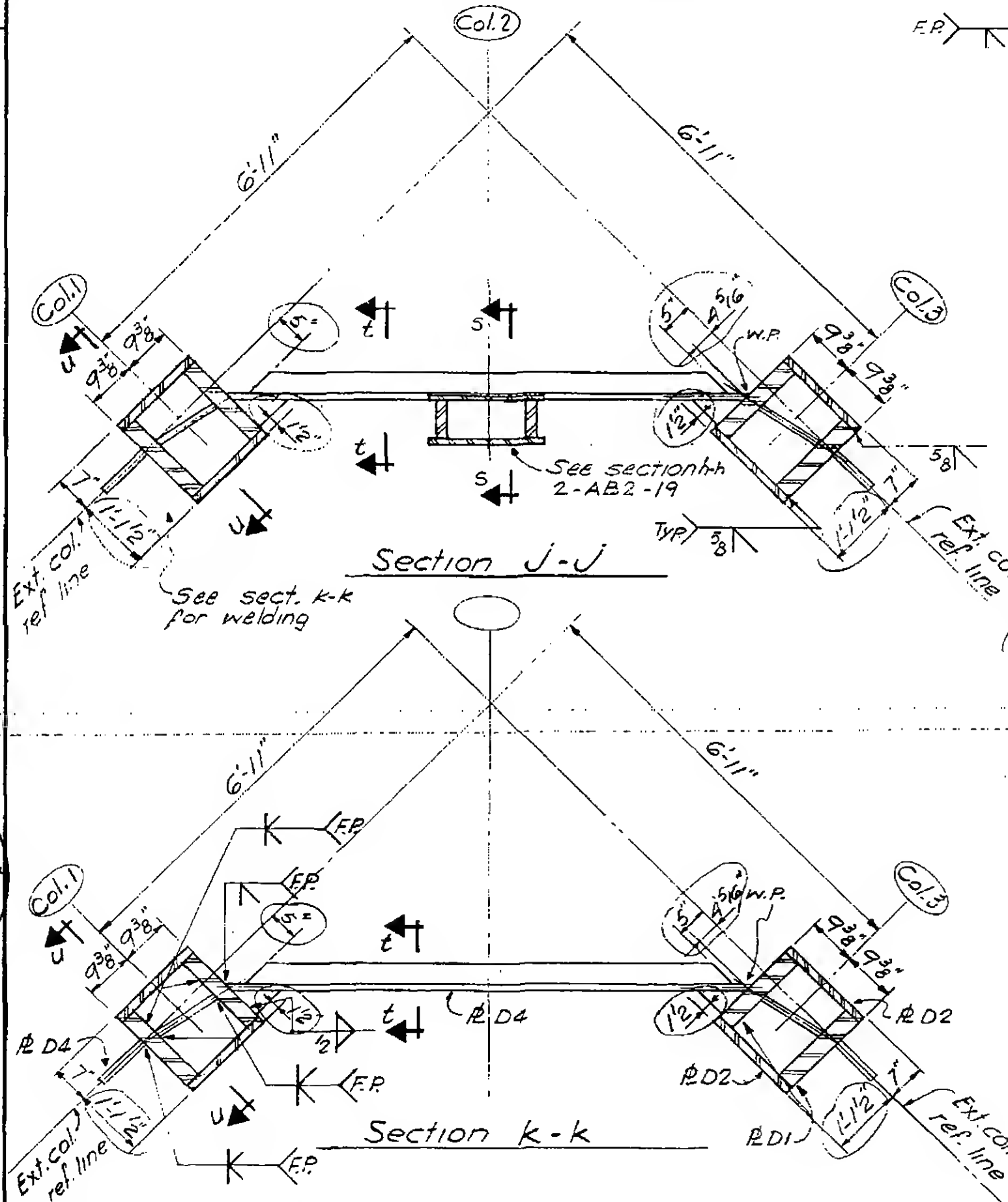


X



REVISIONS

7-25-67



2-AB2-20



PROJECT

THE WORLD TRADE CENTER

TITLE

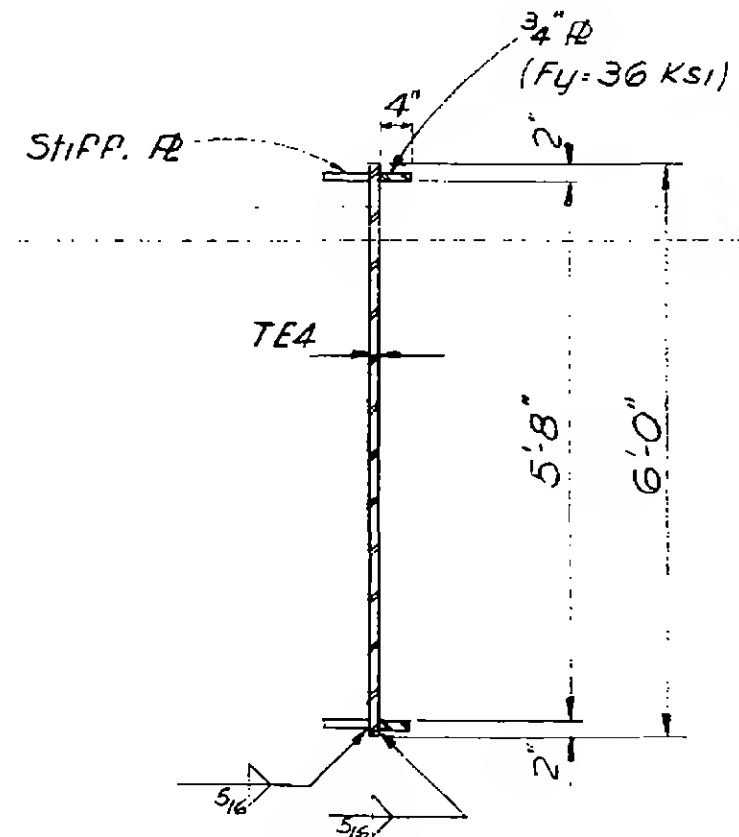
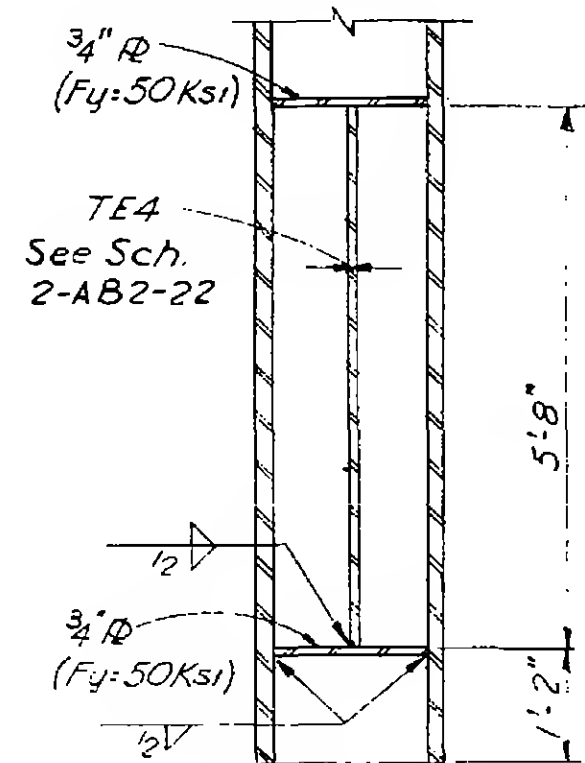
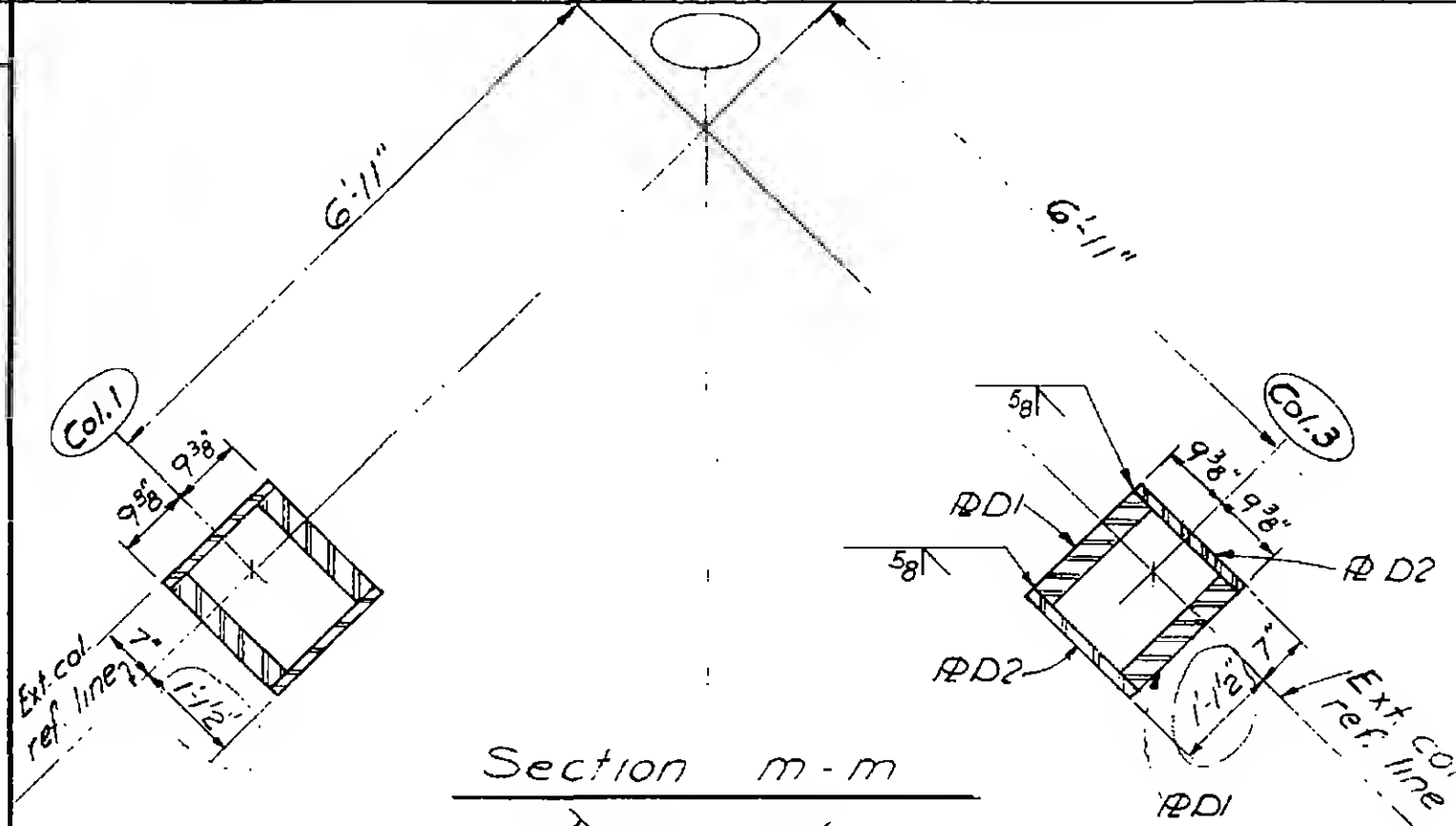
EXTERIOR WALL - TREE - CORNER PANEL SECTIONS

DATE

4-7-67

REVISIONS

7-25-67



PANELS 100, 200, 300 & 400

2-AB2-21



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - CORNER PANEL SCH.

DATE 4-7-67

REVISIONS

7-25-67

8-20-68

	COLUMN 1												COLUMN 2					COLUMN 3												UPPER SPICE			LOWER SPICE			
	R	FY	R	R	FY	R	FY	R	FY	R	FY	R	FY	R	R	FY	R	FY	R	R	FY	R	FY	R	FY	R	FY	R	FY	R	FY	COL	COL	COL	COL	COL
	B1	B1	B2	B3	B2B3	C1	C1	C2	C2	D1	D1	D2	D2	1	1	2	3	2B3	B1	B1	B2	B3	B2B3	C1	C1	C2	C2	D1	D1	D2	D2	1	2	3	1	3
100A	2 ³ / ₈	60	1 ¹ / ₈	1 ¹ / ₈	60	2 ³ / ₈	60	1 ¹ / ₈	60	1 ⁷ / ₈	65	5 ⁵ / ₈	65	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	60	5 ⁵ / ₈	60	102	-	103	501	501
200A	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	60	5 ⁵ / ₈	60	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ³ / ₈	60	1 ¹ / ₈	1 ¹ / ₈	60	2 ³ / ₈	60	1 ¹ / ₈	60	1 ⁷ / ₈	65	5 ⁵ / ₈	65	103	41	102	501	501
300A	2 ³ / ₈	60	1 ¹ / ₈	1 ¹ / ₈	60	2 ³ / ₈	60	1 ¹ / ₈	60	1 ⁷ / ₈	75	5 ⁵ / ₈	75	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	55	5 ⁵ / ₈	55	102	-	103	501	501
400A	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	55	5 ⁵ / ₈	55	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ³ / ₈	60	1 ¹ / ₈	1 ¹ / ₈	60	2 ³ / ₈	60	1 ¹ / ₈	60	1 ⁷ / ₈	70	5 ⁵ / ₈	70	103	41	102	501	501
100B	2 ³ / ₈	60	1 ¹ / ₈	1 ¹ / ₈	60	2 ³ / ₈	60	1 ¹ / ₈	60	1 ⁷ / ₈	70	5 ⁵ / ₈	70	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	70	5 ⁵ / ₈	70	102	-	103	501	501
200B	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	70	5 ⁵ / ₈	70	2 ¹ / ₂	65	3 ³ / ₄	3 ³ / ₄	65	2 ³ / ₈	65	1 ¹ / ₈	1 ¹ / ₈	65	2 ³ / ₈	65	1 ¹ / ₈	65	1 ⁷ / ₈	65	5 ⁵ / ₈	65	103	41	102	501	501
300B	2 ³ / ₈	65	1 ¹ / ₈	1 ¹ / ₈	65	2 ³ / ₈	65	1 ¹ / ₈	65	1 ⁷ / ₈	65	5 ⁵ / ₈	65	2 ¹ / ₂	65	3 ³ / ₄	3 ³ / ₄	65	2 ¹ / ₂	65	3 ³ / ₄	3 ³ / ₄	65	2 ¹ / ₂	65	3 ³ / ₄	65	1 ³ / ₄	70	5 ⁵ / ₈	70	102	-	103	501	501
400B	2 ¹ / ₂	60	3 ³ / ₄	3 ³ / ₄	60	2 ¹ / ₂	60	3 ³ / ₄	60	1 ³ / ₄	65	5 ⁵ / ₈	65	2 ¹ / ₂	65	3 ³ / ₄	3 ³ / ₄	65	2 ³ / ₈	65	1 ¹ / ₈	1 ¹ / ₈	65	2 ³ / ₈	65	1 ¹ / ₈	65	1 ⁷ / ₈	75	5 ⁵ / ₈	75	103	41	102	501	501

	SPANDREL LEVEL B							SPANDREL LEVEL D							SPANDREL LEVEL E		
	TB4	FY	SCL	SCR	SEAT DETAILS			TD4	FY	SCL	SCR	SEAT DETAILS			TE4	FY	
		B4			COL. 1	COL. 2	COL. 3		D4			COL. 1	COL. 2	COL. 3		E4	
100A	1 3/8	36	B13	B13	97	99	97	1 1/2	42	D12	D13	76	99	76	3/4	50	
200A	1 3/8	36	B13	B13	97	99	97	1 1/2	42	D13	D13	76	-	76	3/4	50	
300A	1 3/8	36	B13	B13	97	99	97	1 1/2	42	D12	D13	76	99	76	3/4	50	
400A	1 3/8	36	B13	B13	97	99	97	1 1/2	42	D13	D12	76	-	76	3/4	50	
100B	1 3/8	36	B13	B13	97	99	97	1 1/2	42	D13	D13	76	99	76	3/4	50	
200B	1 3/8	36	B13	B13	89	87	89	1 1/2	42	D14	D14	76	-	76	3/4	50	
300B	1 3/8	36	B13	B13	89	87	89	1 1/2	42	D13	D13	76	99	76	3/4	50	
400B	1 3/8	36	B13	B13	97	99	97	1 1/2	42	D13	D13	76	-	76	3/4	50	



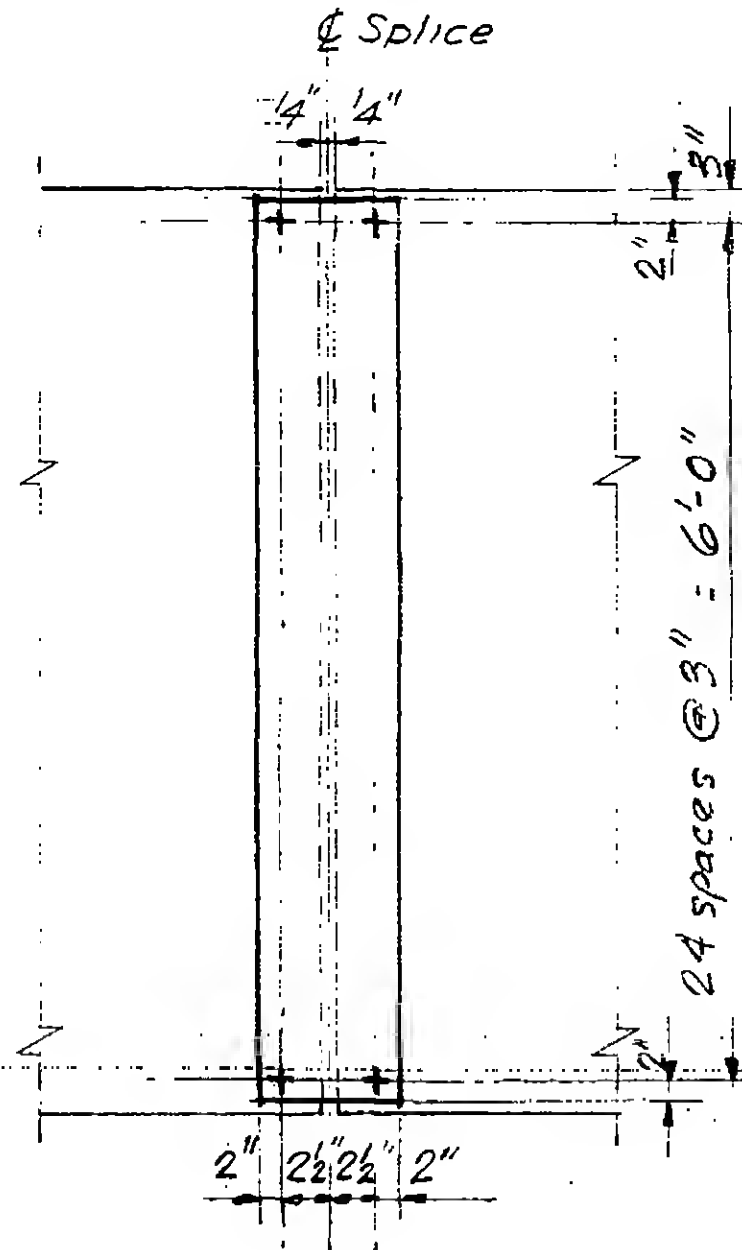
PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL-TREE-SPANDREL SPLICE B

DATE 4-7-67

REVISIONS

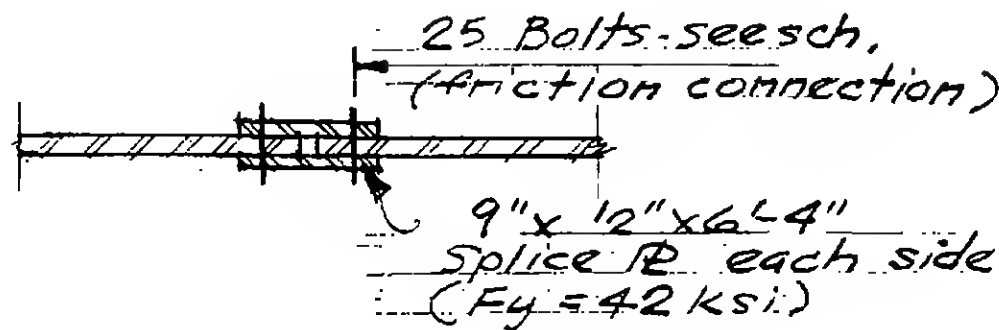
1-2-68



SPLICE DETAIL	BOLTS
B11	25-7/8" ϕ A325
B12	25-1" ϕ A325
B13	25-1 1/8" ϕ A325

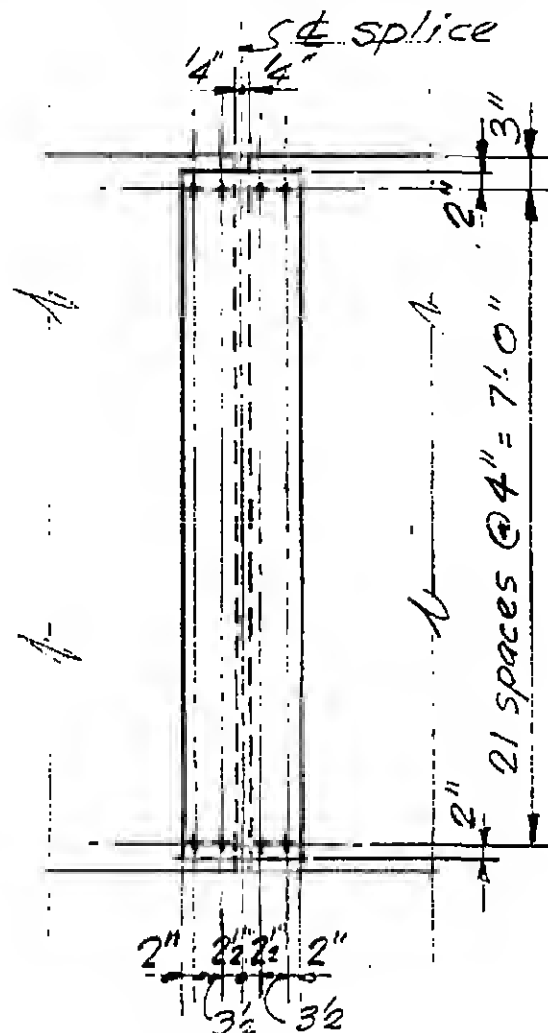
NOTE

1. Bolts shall be H.S. bolts-grade as shedule, with heads placed on the outside face of the spandrel. Holes in spandrel to be 3/16" larger in diameter than the schedule bolt. Holes in splice to be 1/16" larger than the schedule bolt.



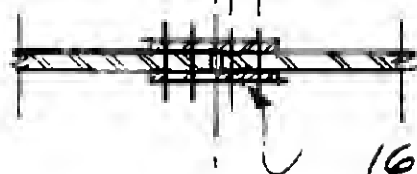
REVISIONS

12-18-67



SPLICE DETAIL	BOLTS	t
D11	44-1"φ A325	1/2"
D12	44-1 1/8"φ A325	1/2"
D13	44-1 1/8"φ A490	5/8"
D14	44-1 1/4"φ A490	3/4"

44 Bolts see sch.
(friction connection)



16" x t x 7'-4"
Splice P - each side
(F_y = 42 ksi)

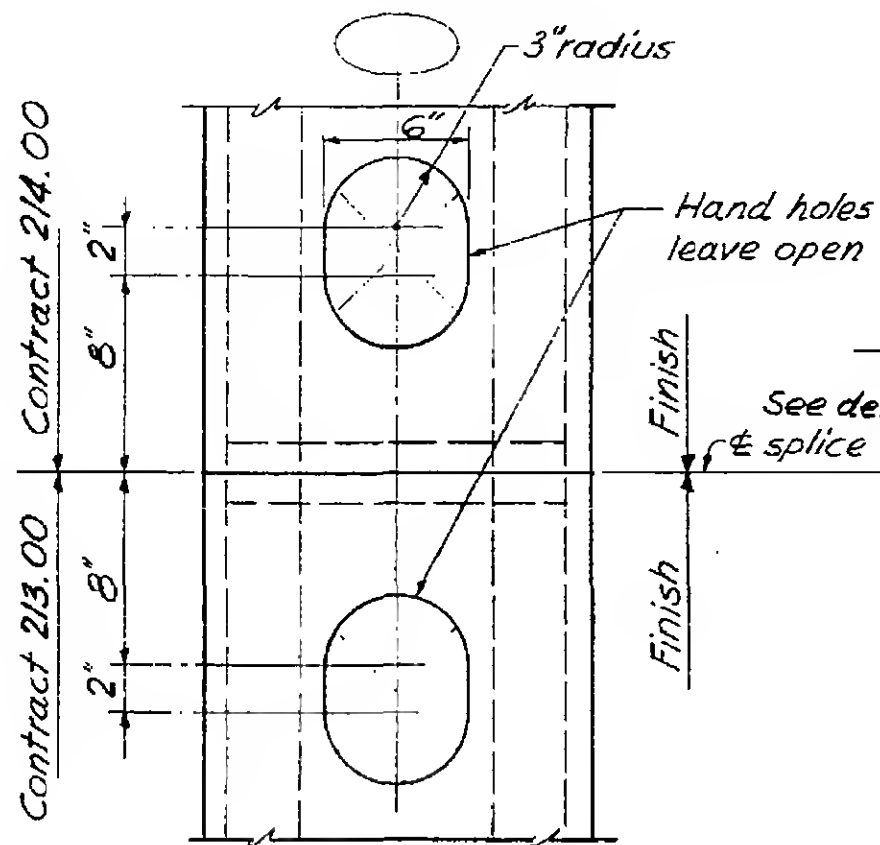
See Note 1, 2-AB2-23



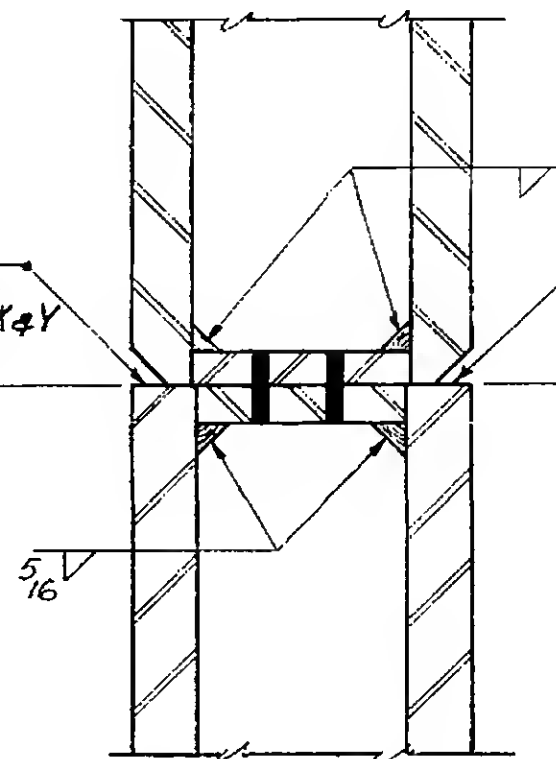
REVISIONS

7-28-67

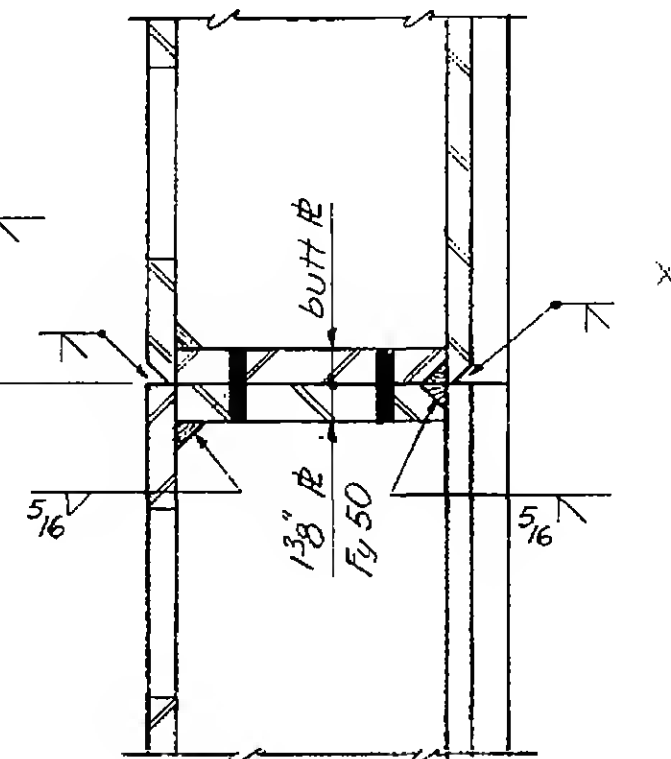
12-18-67



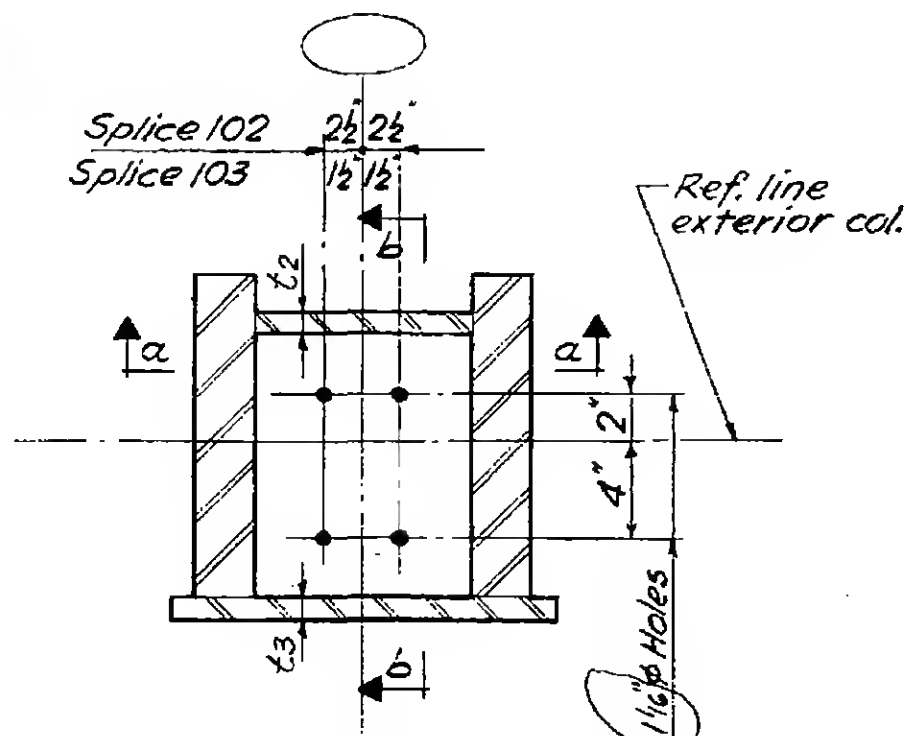
ELEVATION



SECTION a-a



SECTION b-b



PLAN BELOW SPLICE



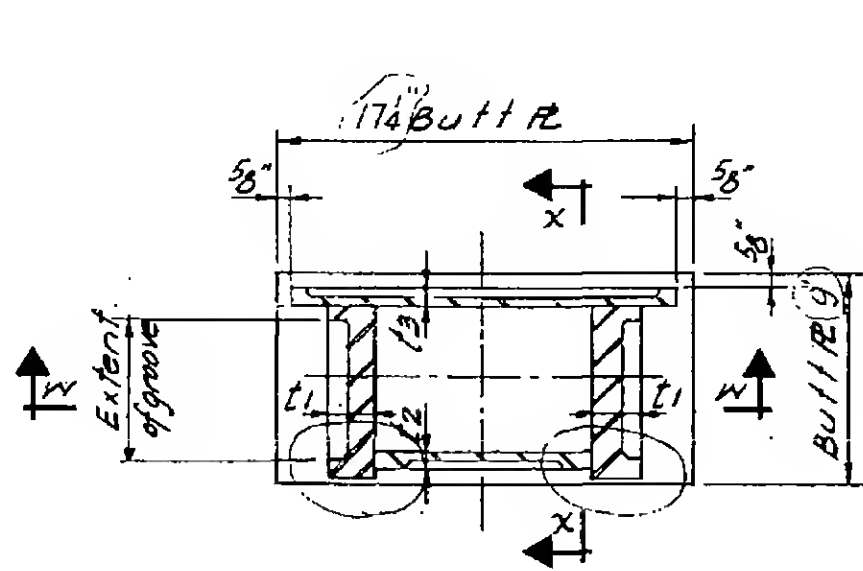
PROJECT **THE WORLD TRADE CENTER**

TITLE **EXTERIOR WALL-TREE-COLUMN SPLICE DETAIL 41**

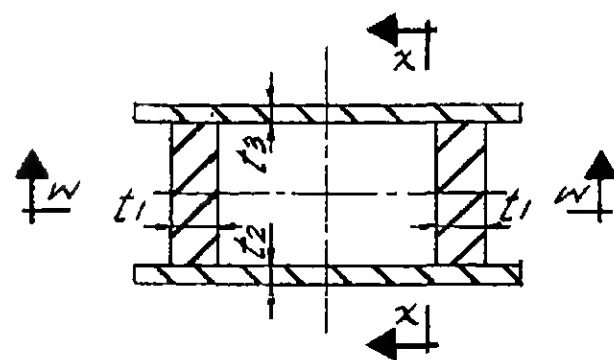
DATE **4-7-67**

REVISIONS

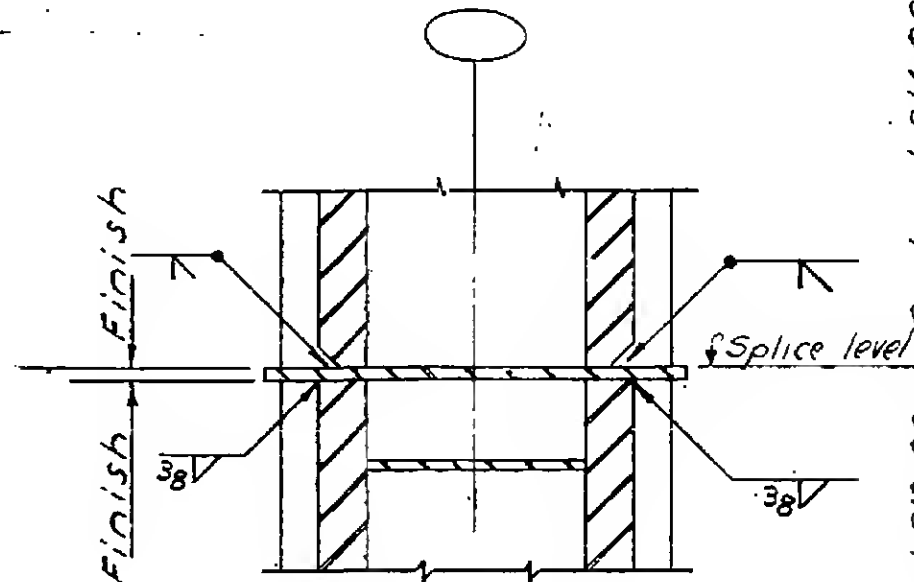
7-28-67



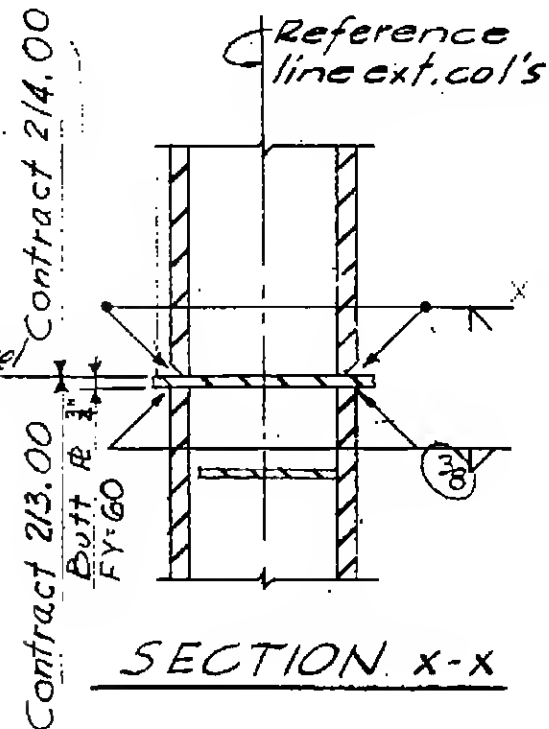
PLAN ABOVE SPLICE



PLAN BELOW SPLICE



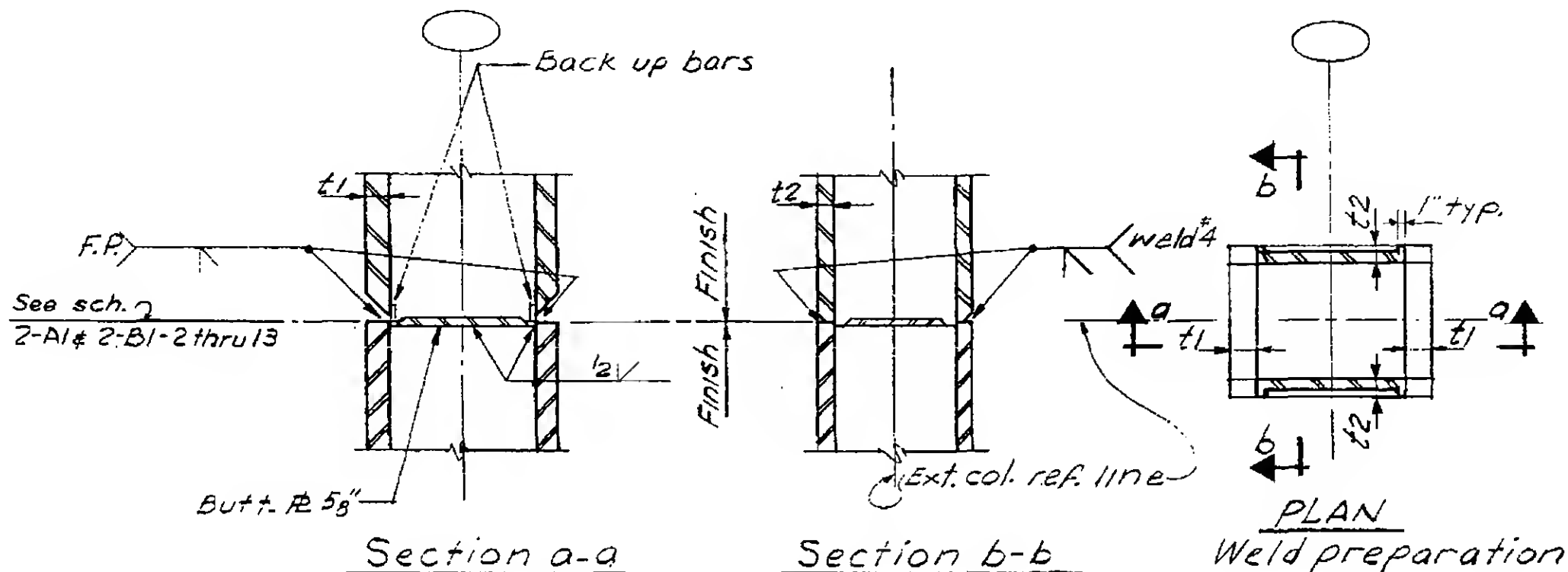
SECTION W-W



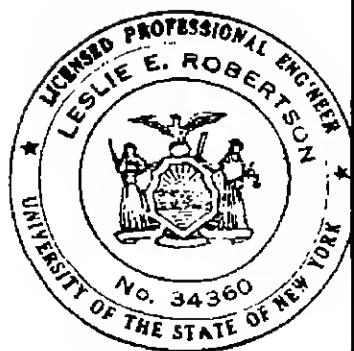
SECTION X-X



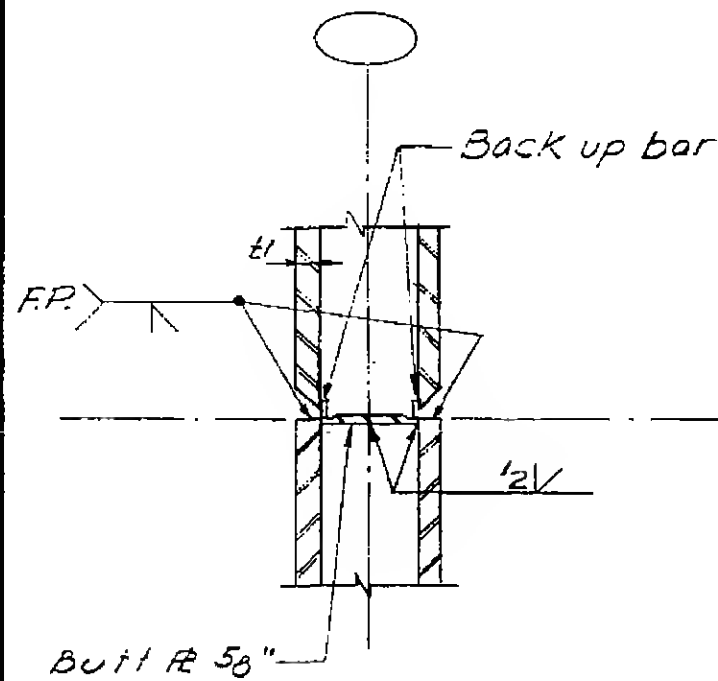
REVISIONS



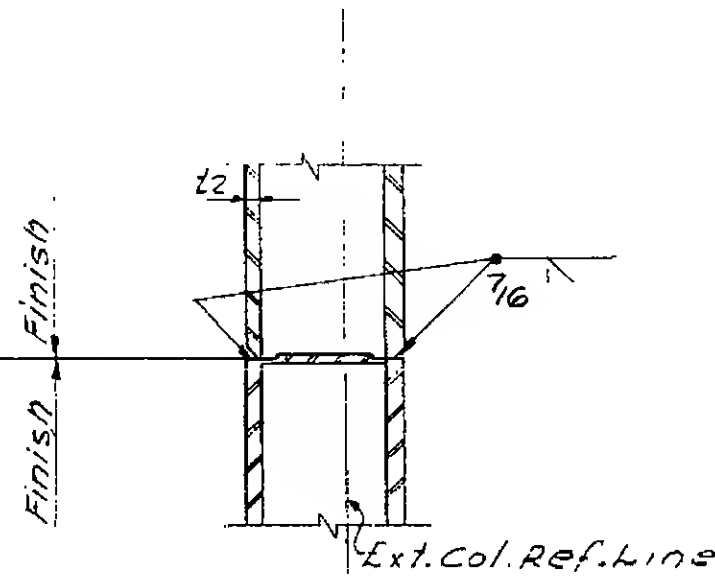
Splice detail	Weld #4
701	3/4
702	1
703	1 1/8
704	1 1/4
705	1 1/2



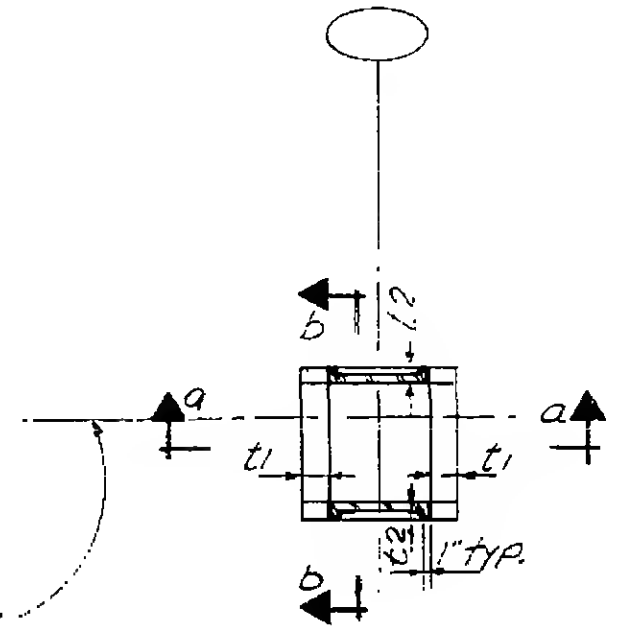
REVISIONS



Section a-a



Section b-b



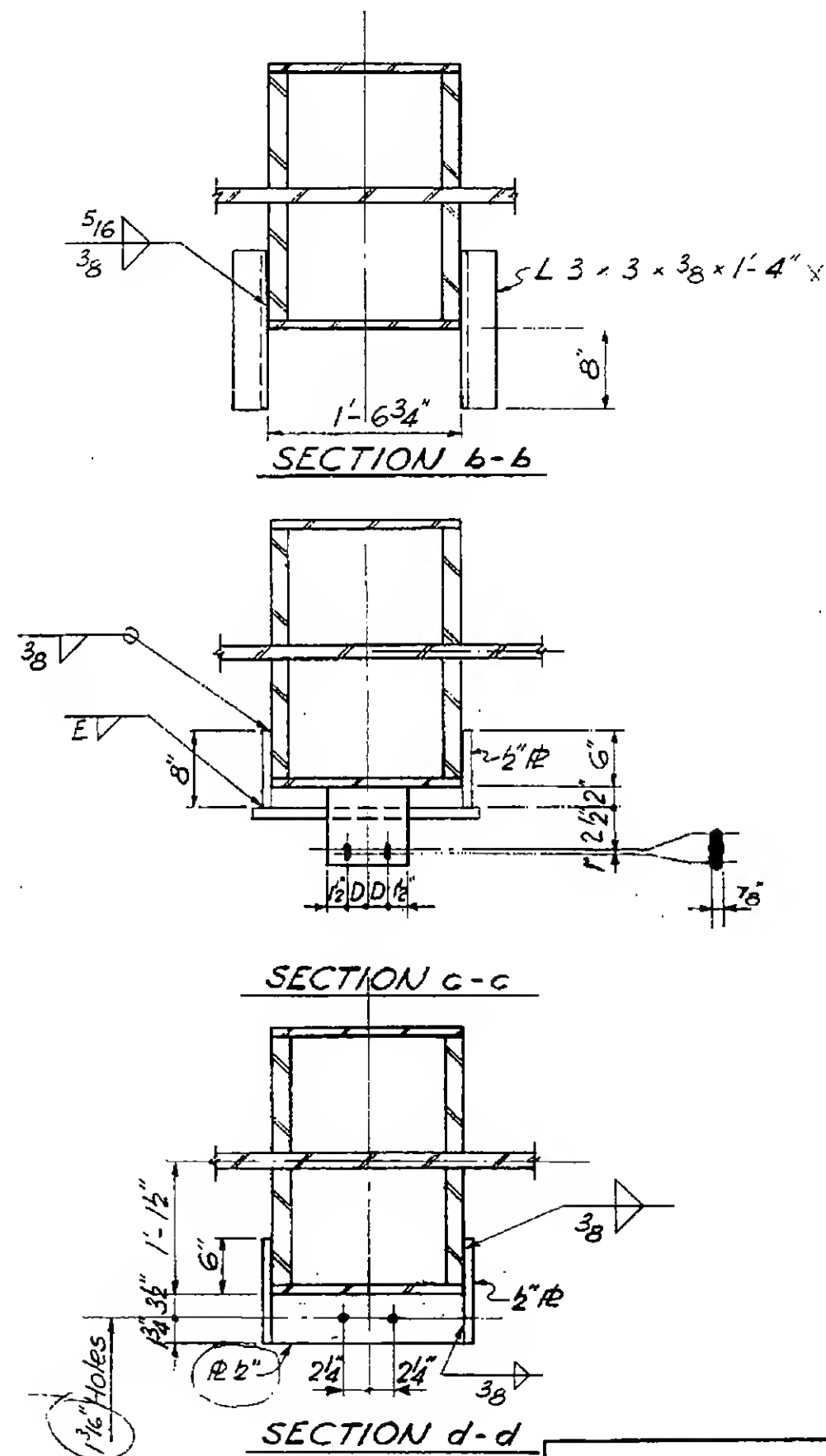
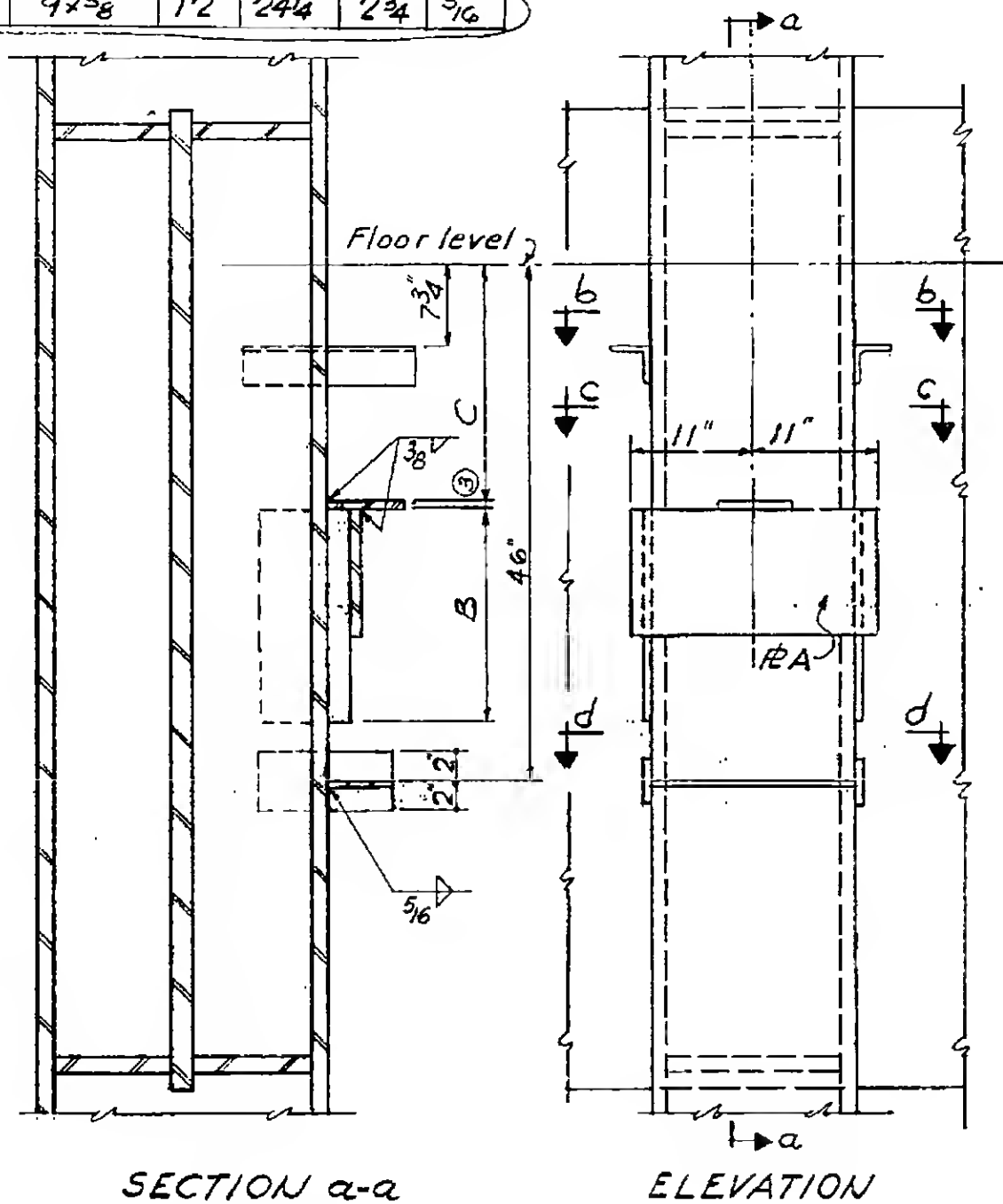
PLAN
Weld-preparation



REVISIONS

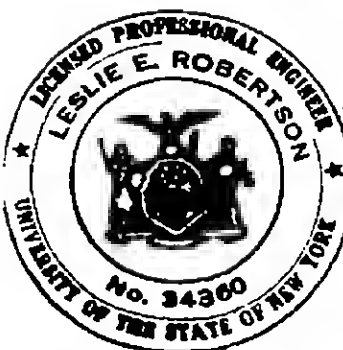
12-18-67

Det. No	Plate A	B	C	D	E
70	12x1	(19 1/2)	22 3/4	23 1/4	1/2
71	11x7 1/8	17	22 3/4	23 1/4	3/8
72	9x5 1/8	12	24 1/4	13 1/4	5/16
73	8x1/2	8	24 1/4	(13 1/4)	5/16
72A	9x5 1/8	12	24 1/4	23 1/4	5/16



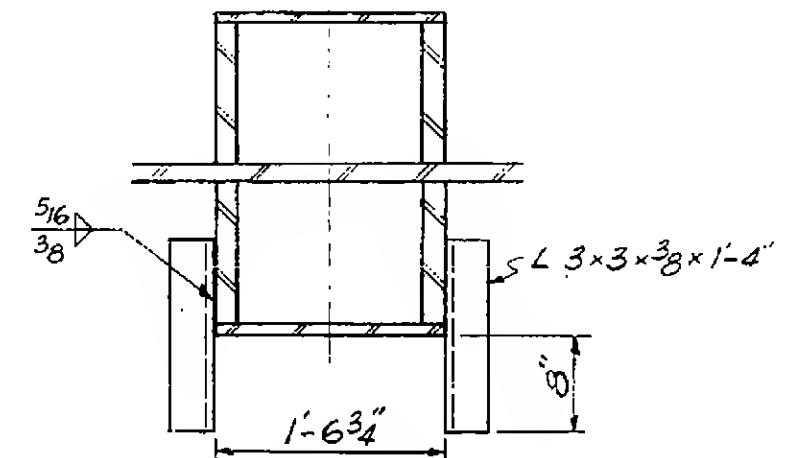
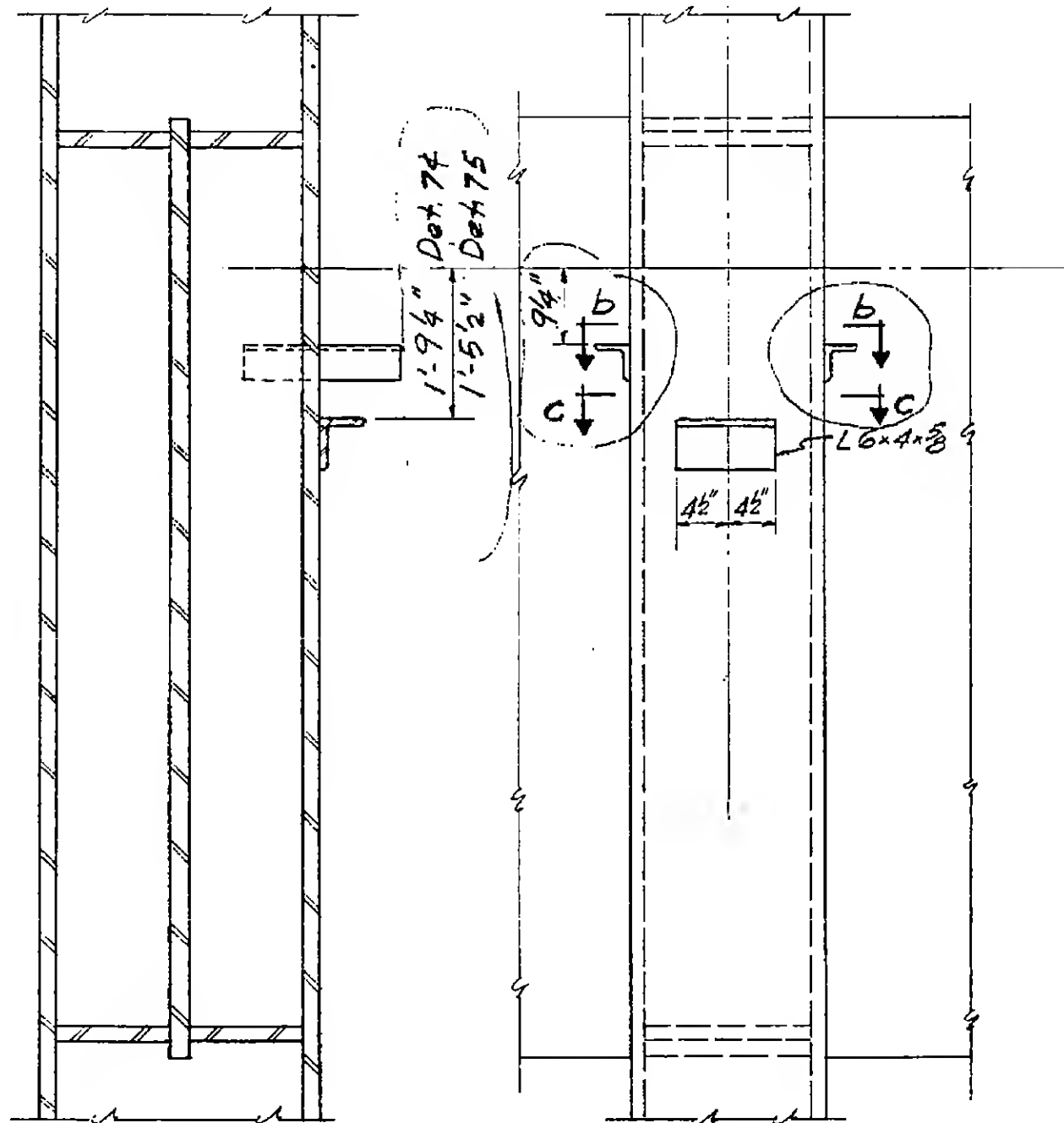
1. See 2-A1 and 2-B1-2 thru -13 for schedule
2. Grind weld #1 (2-AB2-8) flush in area of detail material welded alongside column
3. Thickness of R same as R A

2-AB2-31

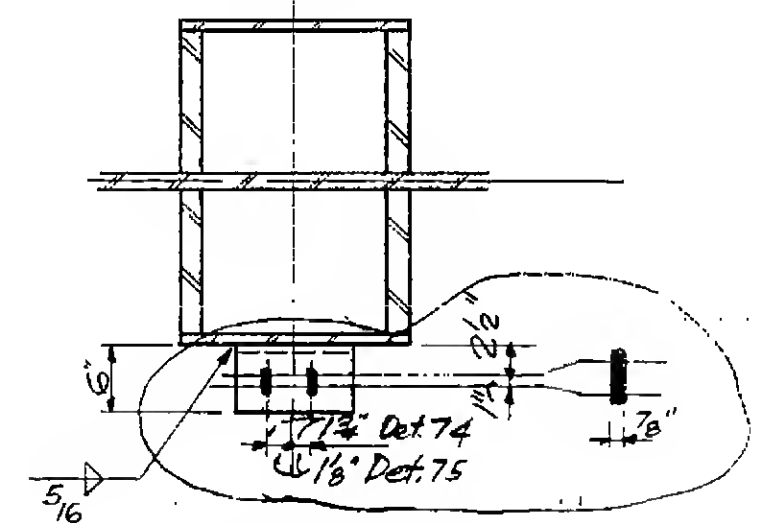


REVISIONS

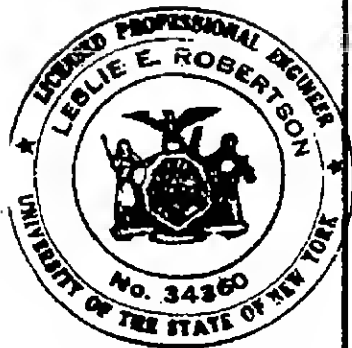
12-18-67



SECTION b-b

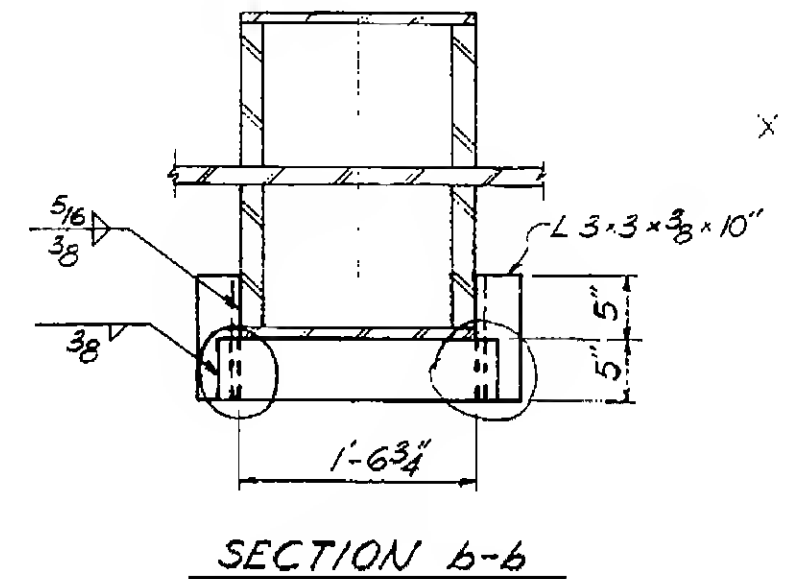
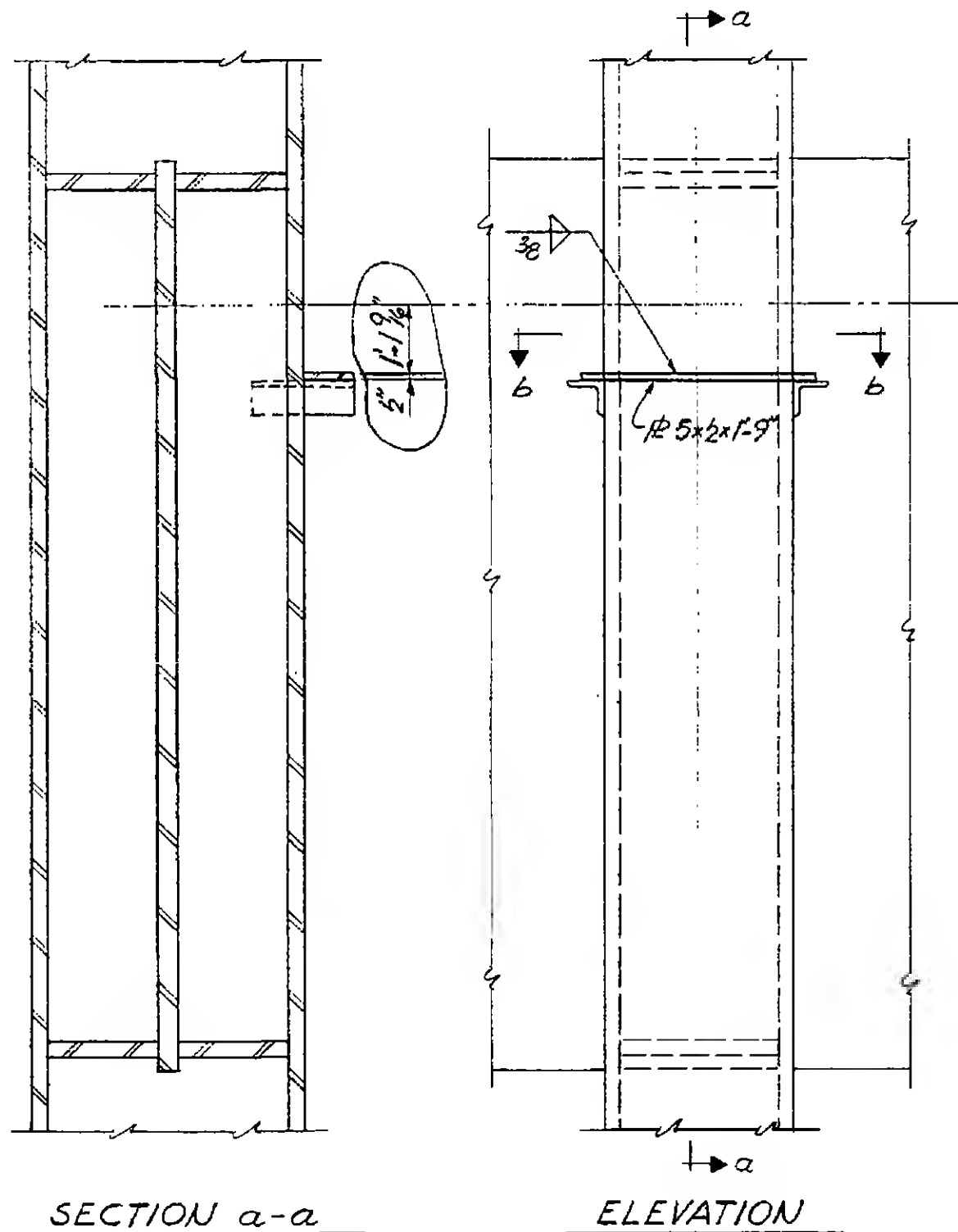
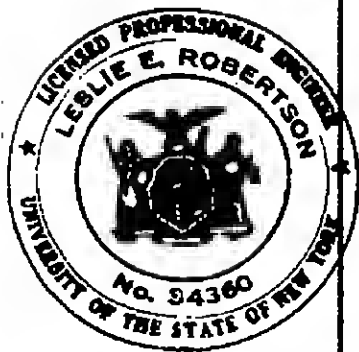


SECTION c-c



REVISIONS

12-18-67



2-AB2-33

PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL-TREE-SEAT DETAILS 90-93, 85

DATE 7-25-67

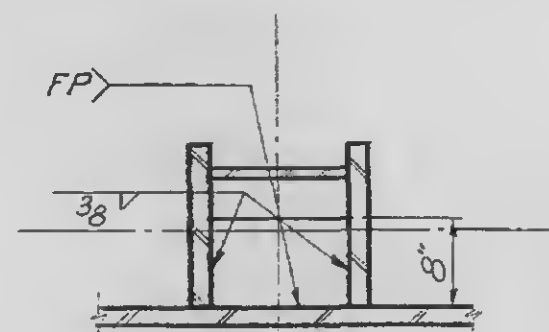
REVISIONS

12-18-67

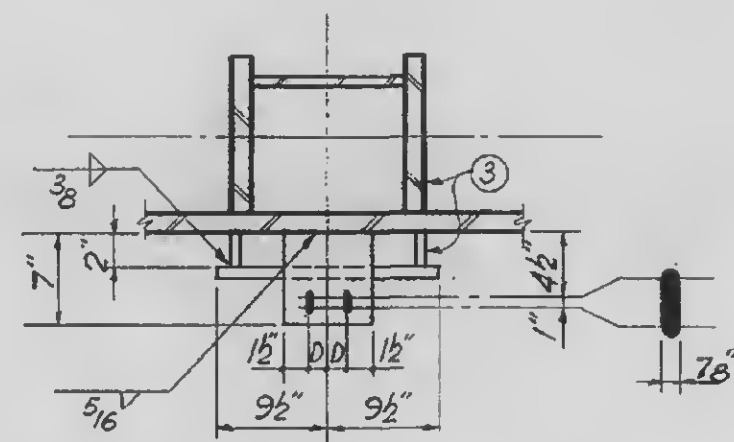
8-20-68

- ① See 2-A1 and 2-B1-2 thru-13 for schedule
- ② Thickness of $\bar{P}$ same as $\bar{P}$ A
- ③ These surfaces to line up using theoretical column width
- ④ Stiffener plate at option of contractor

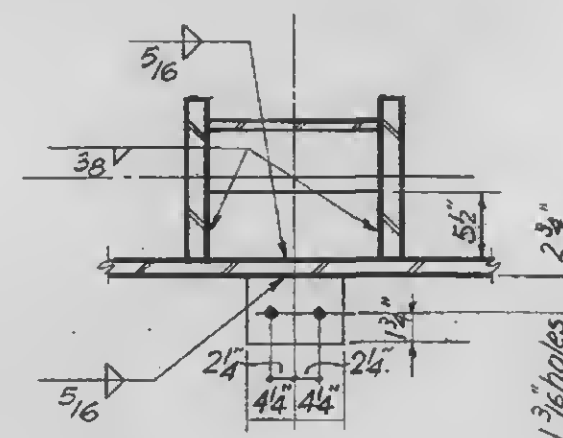
Det	Plate A	B	C	D
90	12x1	20	22 $\frac{3}{4}$	2 $\frac{3}{4}$
91	11x $\frac{7}{8}$	17	22 $\frac{3}{4}$	2 $\frac{3}{4}$
92	9x $\frac{5}{8}$	12	26 $\frac{1}{4}$	1 $\frac{3}{4}$
93	8x $\frac{1}{2}$	8	23 $\frac{3}{4}$	1 $\frac{3}{4}$
85	14x1	20	22 $\frac{3}{4}$	2 $\frac{3}{4}$



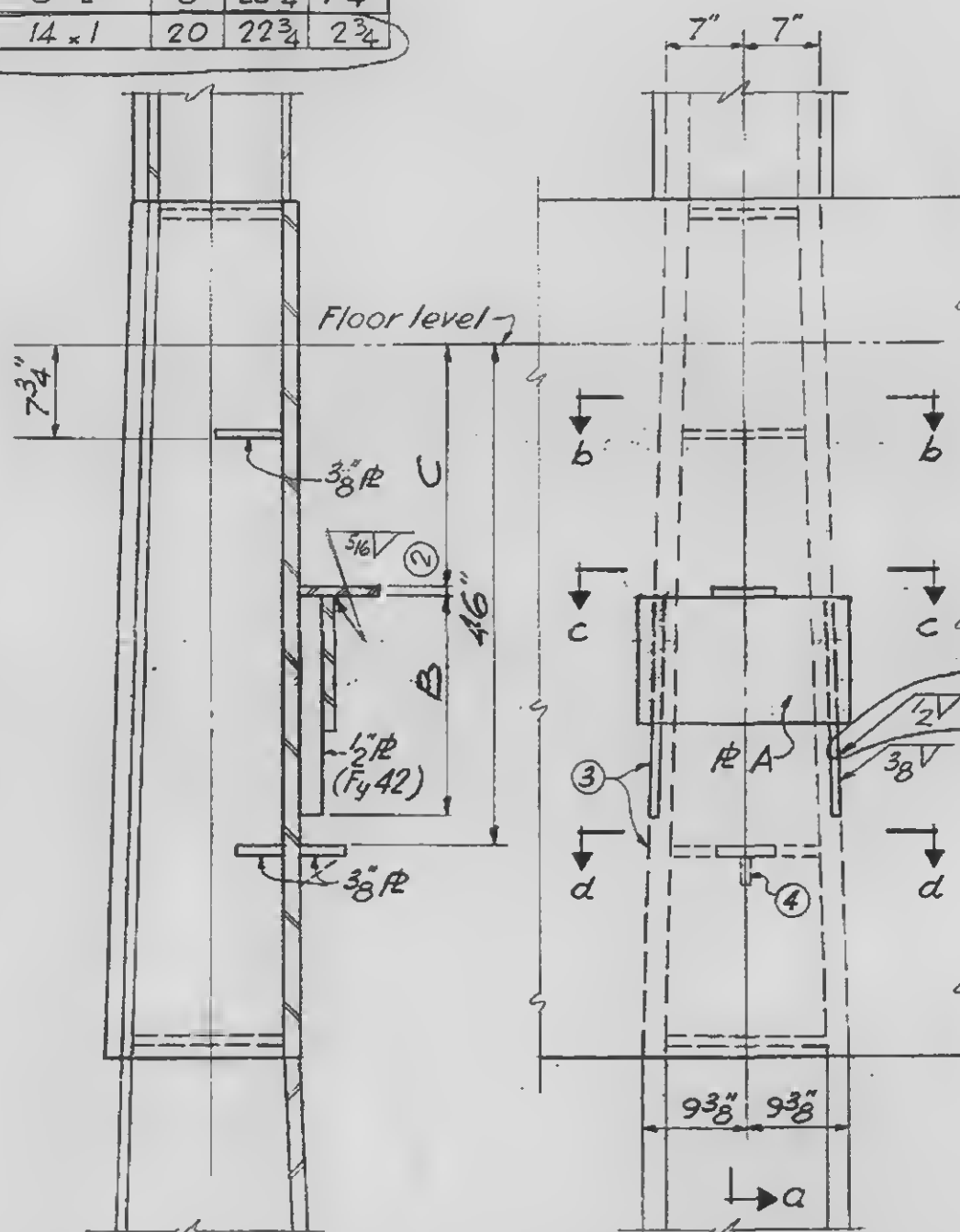
SECTION b-b



SECTION c-c

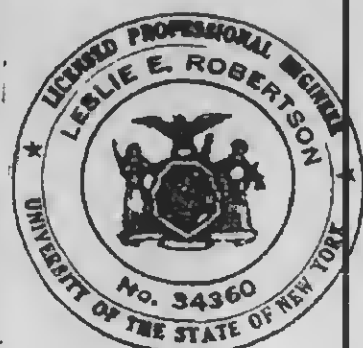


SECTION d-d



ELEVATION

SECTION a-a



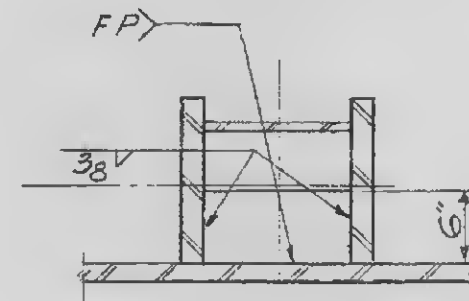
PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL - TREE - SEAT DETAILS 86-89, 94, 95 DATE 7-25-67

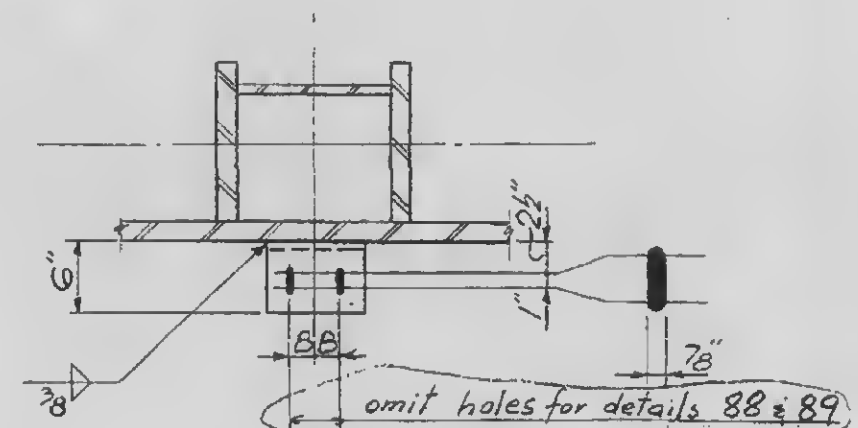
REVISIONS

12-18-67
8-20-68

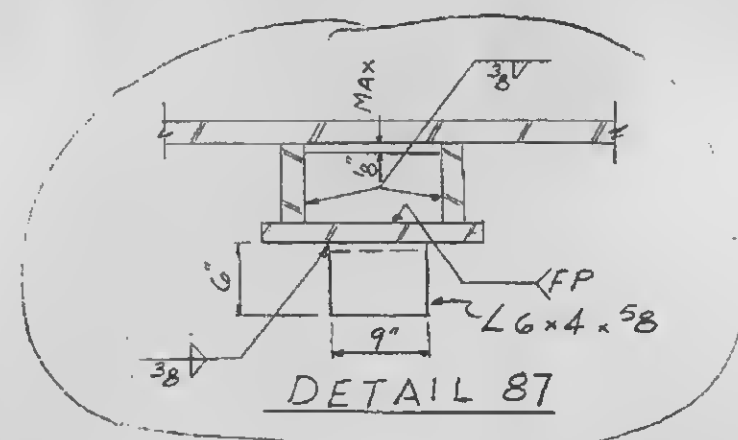
Det. No	A	B
94	21 3/4	13
95	21 3/4	13 1/4
89	15 3/4	-
88	17 1/4	-
87	15 3/4	-
86	20 1/4	13 1/4



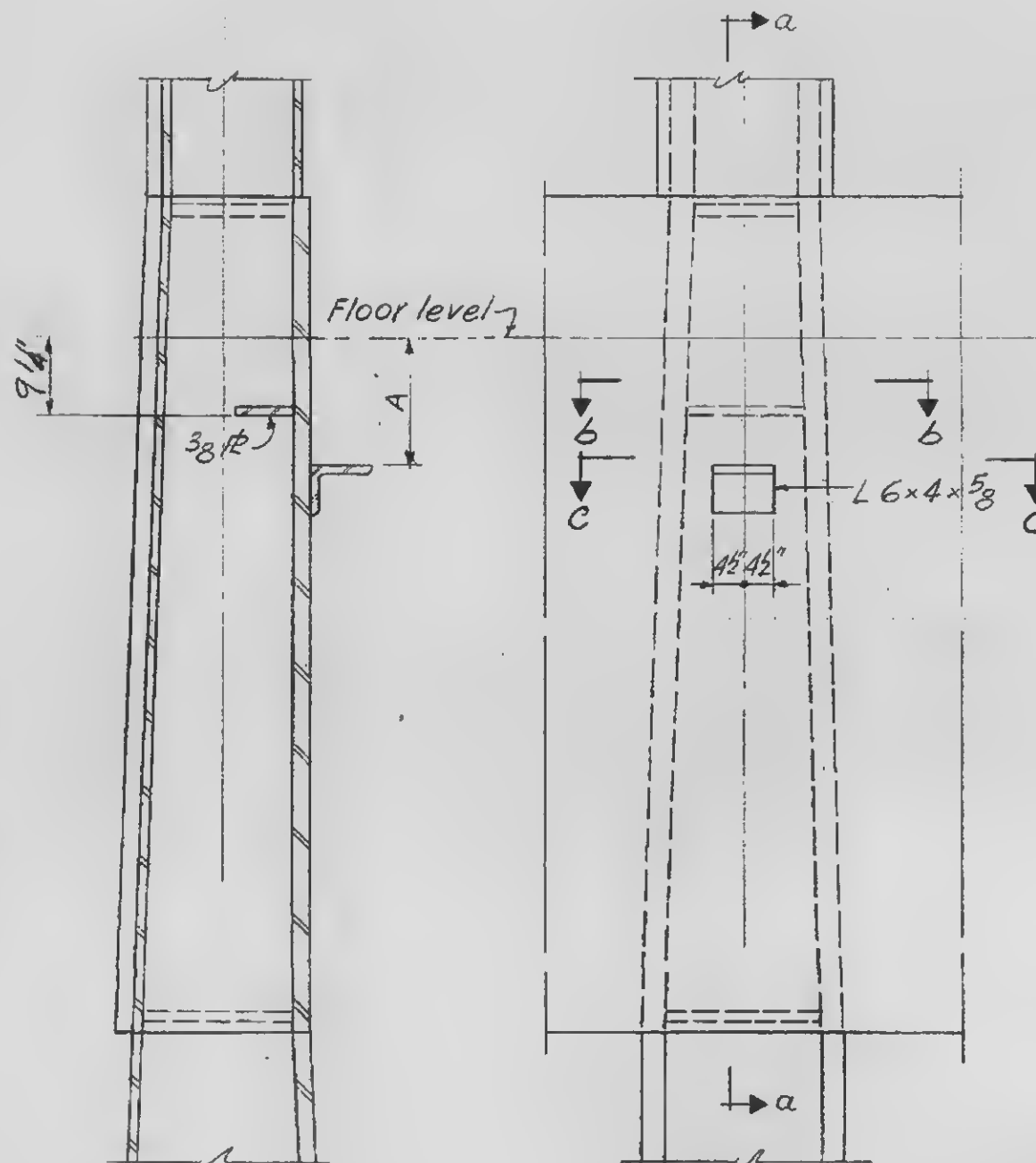
SECTION b-b



SECTION c-c

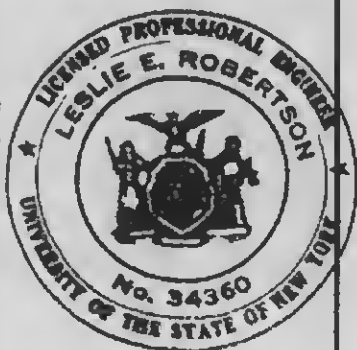


DETAIL 87



SECTION a-a

ELEVATION



PROJECT THE WORLD TRADE CENTER

TITLE EXTERIOR WALL-TREE-SEAT DETAILS 96-99

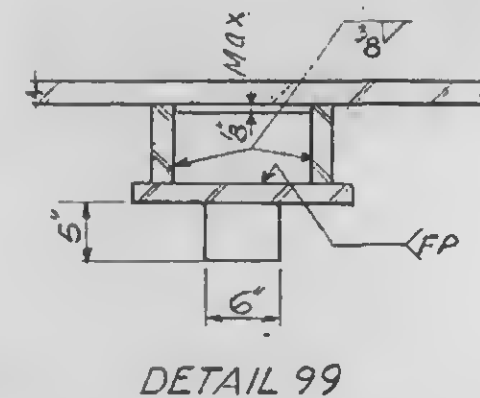
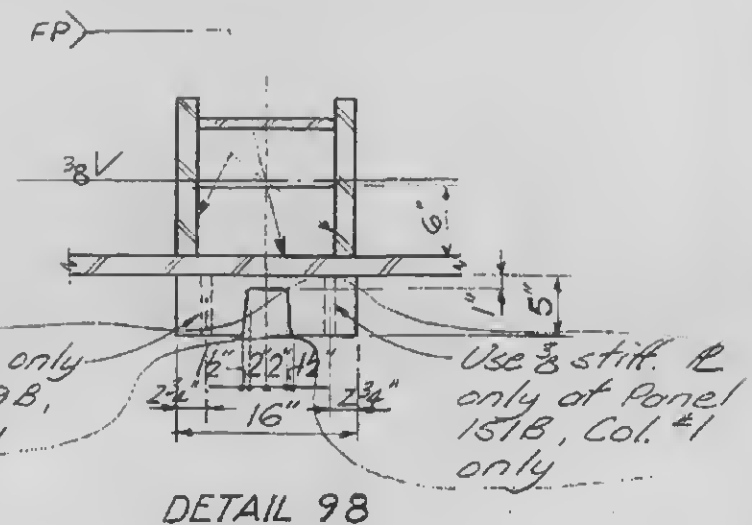
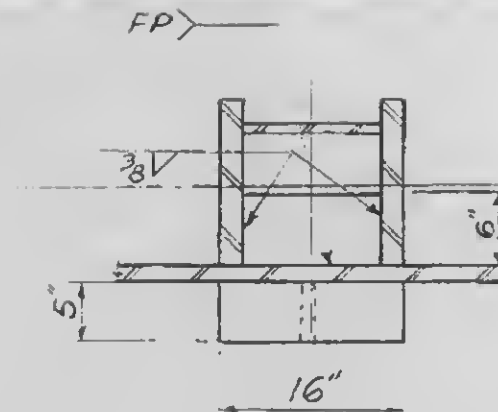
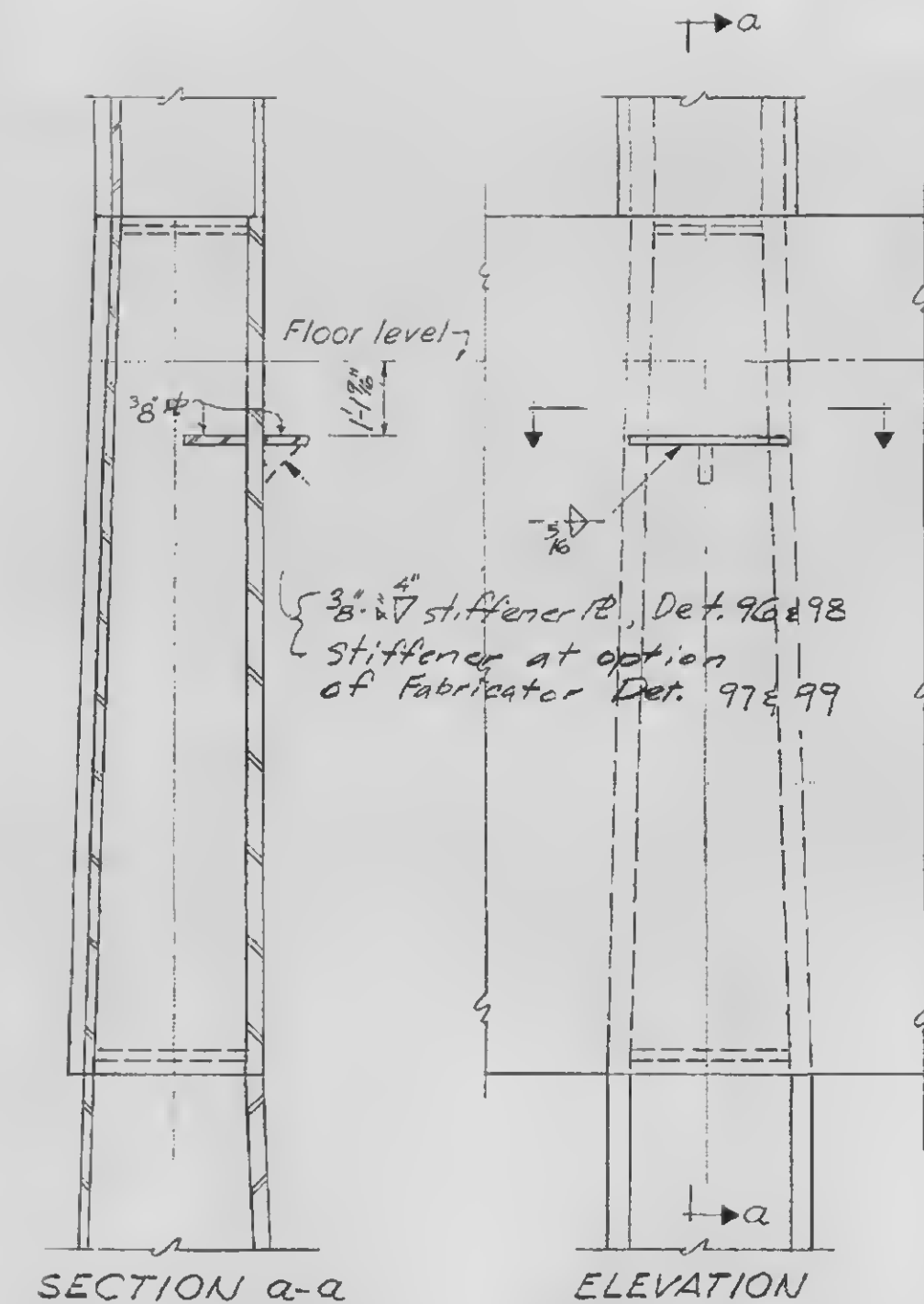
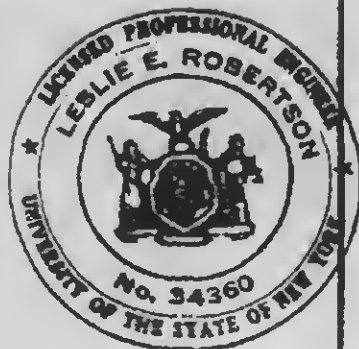
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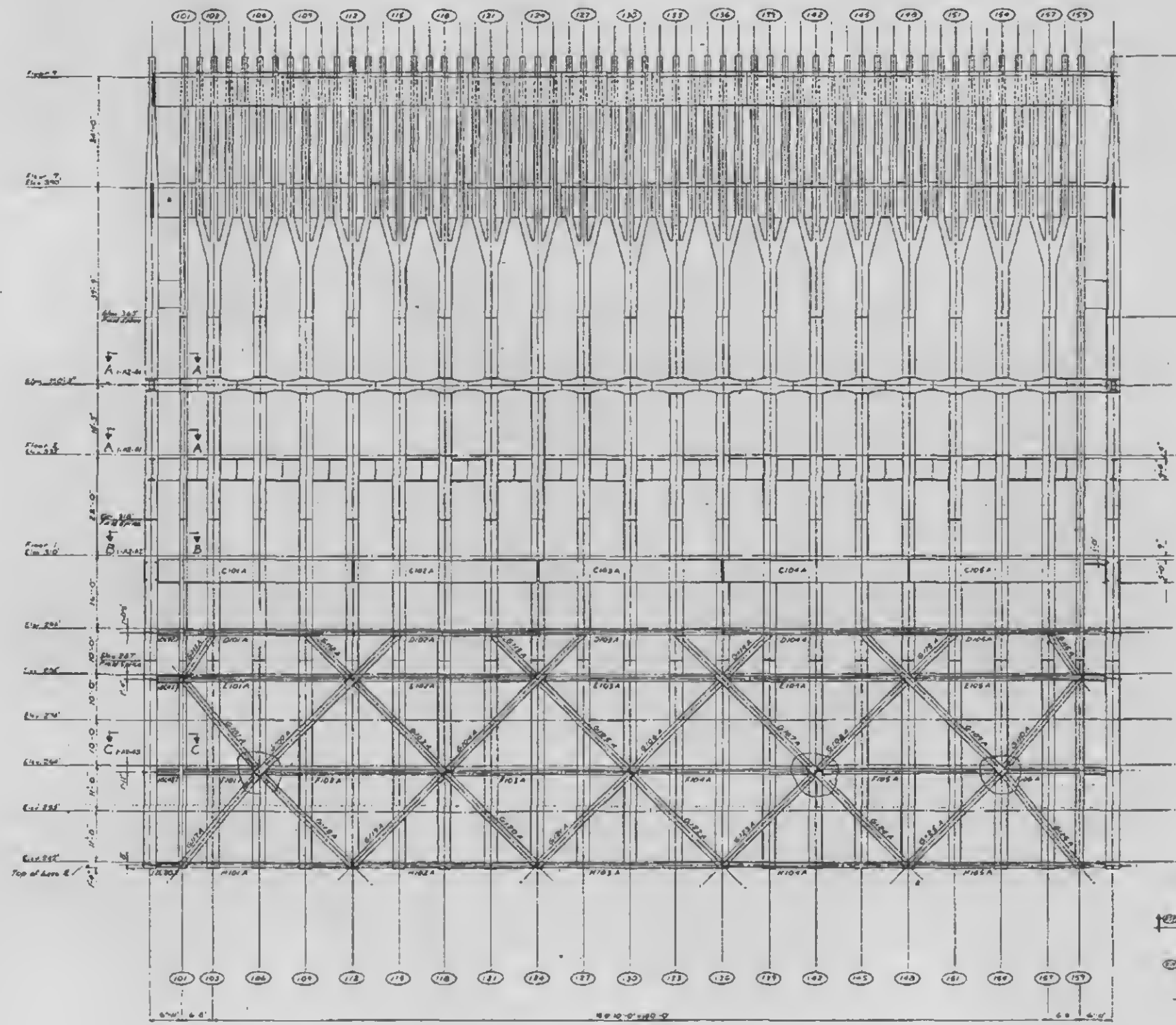
REVISIONS

12-18-67

8-20-68

10-16-68

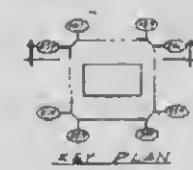




For details this portion
See drawing book 2

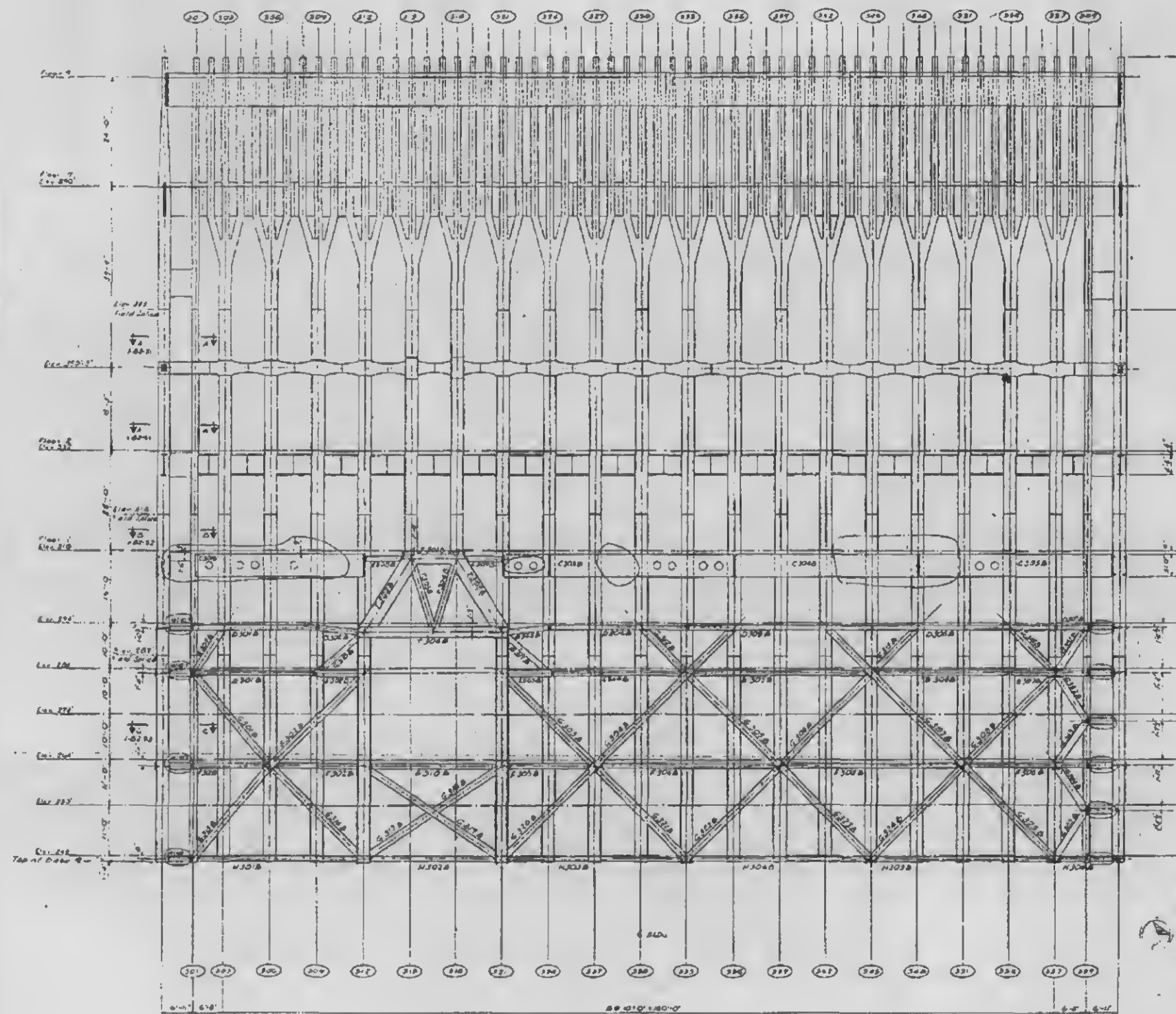
4-7-67

X



Notes:
See drawing book 1 section A2
for details, general framing
schedule & etc.

		THE WORLD TRADE CENTER THE PORT OF NEW YORK AUTHORITY		EXTERIOR WALL TO FLOOR 9 ELEVATION WALL 100	
ARCHITECT: THE WORLD TRADE CENTER ASSOCIATES 100 WALL STREET, NEW YORK 6, N.Y. ENGINEER: JAMES A. LEECH & ASSOCIATES 100 WALL STREET, NEW YORK 6, N.Y.		STRUCTURAL: JAMES A. LEECH & ASSOCIATES 100 WALL STREET, NEW YORK 6, N.Y.		DATE: 4-7-67 DRAWN BY: J. LEECH CHECKED BY: J. LEECH	
SCALE: 1/8" = 1'-0" 1" = 12'-0"		SA-125		100 WALL STREET, NEW YORK 6, N.Y.	



DATE	10/1/61
BY	J. J. J.
CHECKED	J. J. J.
APPROVED	J. J. J.



THE WORLD TRADE CENTER THE PORT OF NEW YORK AUTHORITY

WILLIAM TAYLOR & ASSOCIATES
RICHARD T. TAYLOR, ARCHITECT

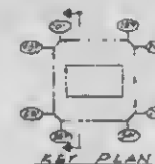
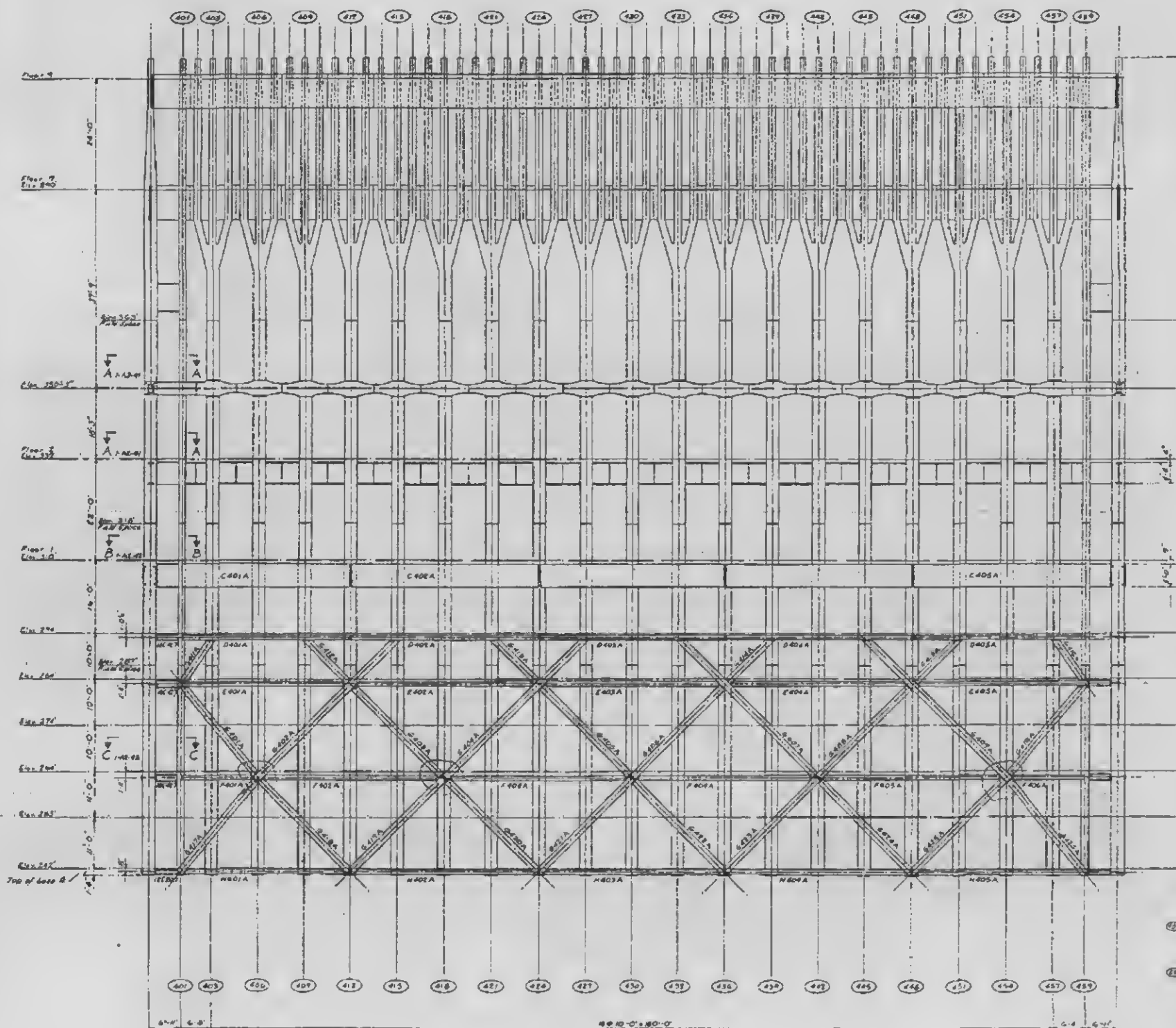
EDWARD DOLAN & SONS
EDWARD DOLAN, ARCHITECT

JOSEPH P. LORUSSO & ASSOCIATES
JOSEPH P. LORUSSO, ARCHITECT

THE PORT OF NEW YORK AUTHORITY
NEW YORK, NEW YORK

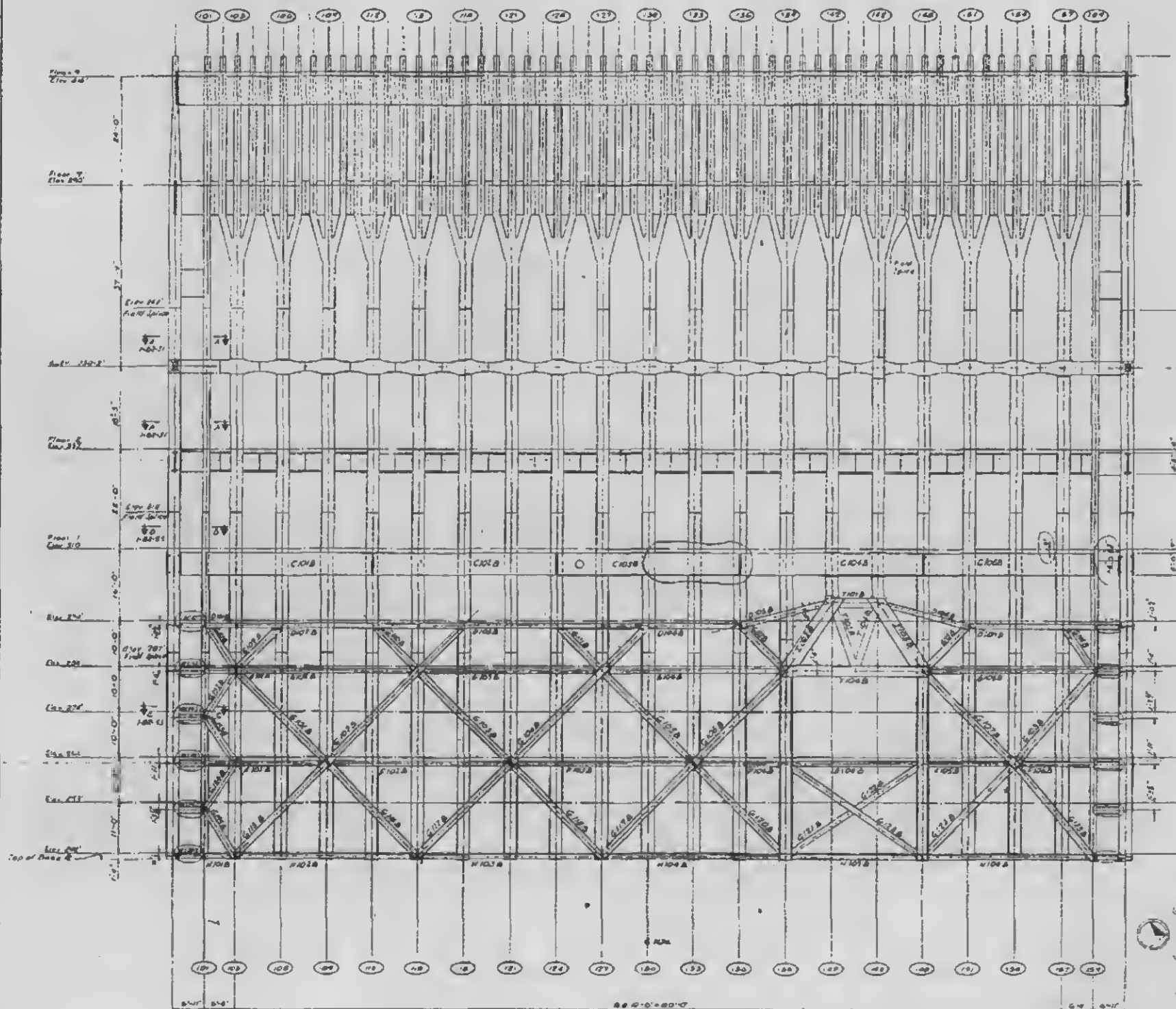
EXTERIOR WALL
TO FLOOR 9
ELEVATION WALL 300

SCALE	1/4" = 1'-0"
DATE	10/1/61
BY	J. J. J.
CHECKED	J. J. J.
APPROVED	J. J. J.



NOTE: See drawing 50A-128 for details of column, spandrel framing, and other details.

		THE WORLD TRADE CENTER THE PORT OF NEW YORK AUTHORITY		EXTERIOR WALL - TO FLOOR 9 ELEVATION WALL 400	
HONORARY ARCHITECT & ASSOCIATES FREDERICK V. FARMER, ARCHITECT		HONORARY ARCHITECT & ASSOCIATES JOSEPH E. LORING & ASSOCIATES		HONORARY ARCHITECT & ASSOCIATES JOSEPH E. LORING & ASSOCIATES	
DATE: 12-12-66 BY: J.E.L.		DATE: 12-12-66 BY: J.E.L.		DATE: 12-12-66 BY: J.E.L.	
5A-128		5A-128		5A-128	



NOTES:
See Drawing Book 1 Section D7
for column, beam, and
truss schedules and details.

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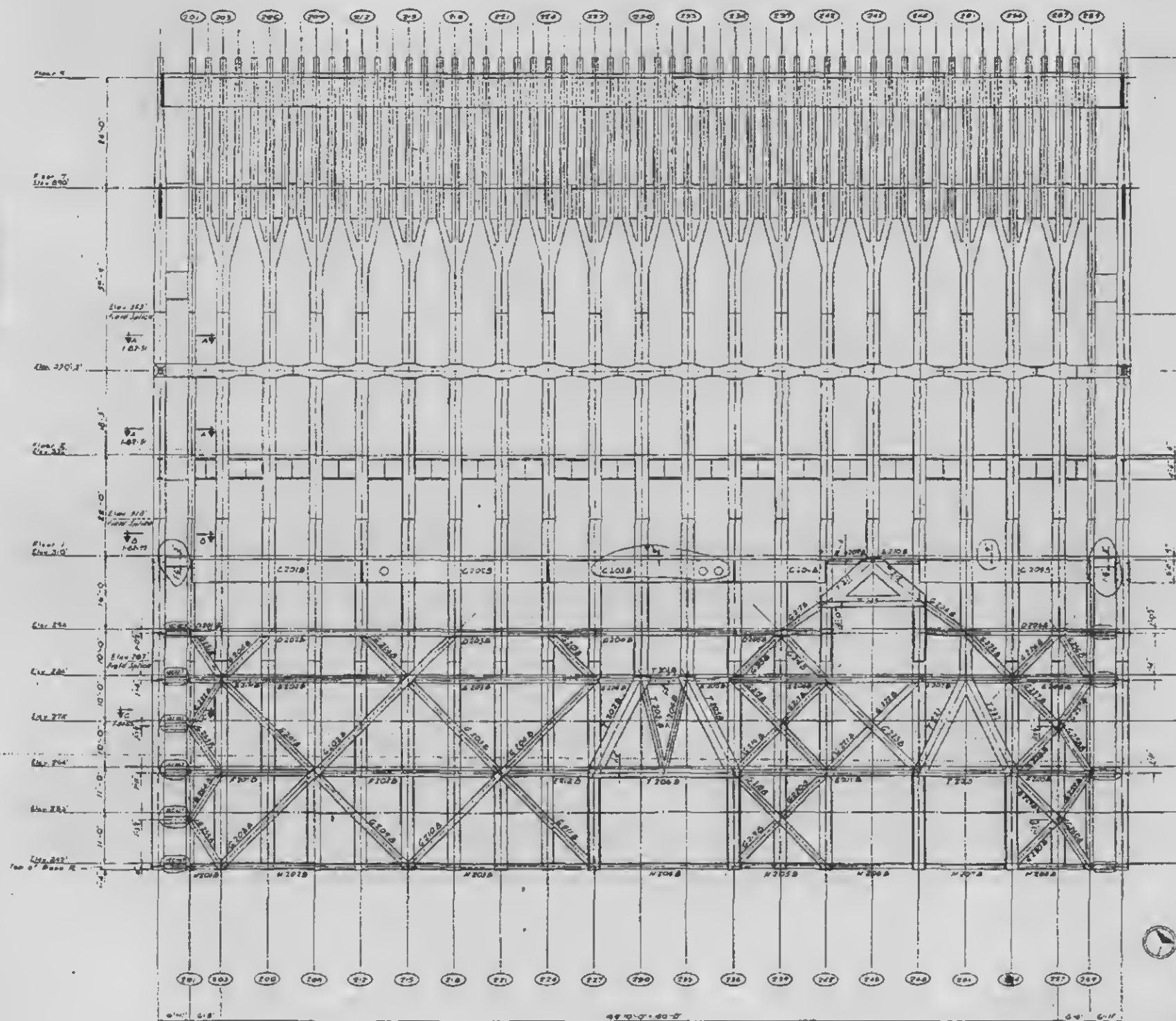


THE WORLD TRADE CENTER THE PORT OF NEW YORK AUTHORITY

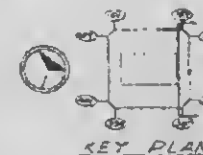
ARCHITECT: THE PORT OF NEW YORK AUTHORITY
ENGINEER: THE PORT OF NEW YORK AUTHORITY
DESIGNER: THE PORT OF NEW YORK AUTHORITY
CONTRACTOR: THE PORT OF NEW YORK AUTHORITY

EXTERIOR WALL
TO FLOOR 9
ELEVATION WALL 100

SB-125



For details this portion see
Drawing Book 2



Notes:
See Drawing Book 1, Section 32
for Column, secondary, drawing and truss
schedules and details.

		THE WORLD TRADE CENTER THE PORT OF NEW YORK AUTHORITY		EXTERIOR WALL TO FLOOR 9 ELEVATION WALL 200
SHINGO YAMAGUCHI & ASSOCIATES CIVIL ENGINEERS		ERNEST BETH & SONS ARCHITECTS		DATE: 9/12/68 DRAWN BY: [blank] CHECKED BY: [blank]
JAMES H. BAYNE & SONS ARCHITECTS		JAMES H. BAYNE & SONS ARCHITECTS		53-126

