

DOCUMENT DATA FORM

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Index to drawing book 2

Include work order no. and floor no. if applicable

Roll # (e.g., CORR-4):

DB06

Doc. ID (report #, dwg. #):

Document Date:

Document Author Name:

Author Organization:

KEYWORDS - HIGHLIGHT ALL THAT APPLY

Level 1

Bankers Trust	Project 6	WTC 4 - South Plaza Bldg.
Concourse	Project 7	WTC 5 - North Plaza Bldg.
Electrical Substation	Project 8	WTC 6 - Customs House
Liberty Plaza	WFC 1 - Oppenheimer Dow	WTC 7
PATH Station	WFC 2 - Tower B	WTC Complex
Project 1	WFC 3 - American Express	WTC Plaza
Project 2	WFC 4 - Tower D	
Project 3	WTC 1 - North Tower	Add
Project 4	WTC 2 - South Tower	
Project 5	WTC 3 - Marriot Hotel	

Level 2

Accident analysis & risk	Fire protection	Police	Add
Architectural	Fire service	Security	
Data request	Management	Structural	
Emergency management	Mech./elec.	Tenant alterations	
Evacuation	News coverage		

Level 3

1993 explosion	Deflection	Human comfort	Smoke control
A/E fitout	Demolition	HVAC	Smoke test
A-242	Design	Index	Spandrel beam
A-36	Detailing	Inspection	Specifications Splices
A-497	Doors	Insulation	Sprinkler
Air cooled condensers	Drawings	Job number	Stability
Analysis	Eastern States Steel	Joist	Stairways
Angles	Egress	L-50	Standards
Antenna	Elevator	Lighting	Steel
Artifacts	Emergency communications	Loads	Steel composition
Asbestos	Equipment	Maintenance	Stiffness
Beams	Erection marks	Marking	Structural review
Bow tie	Escalator	Mesh reinforcement	Survivor
Bracing	Expansion joint	Mill inspection	Tenant list
Bridging truss	Exterior columns	Model	Testing
Calculations	Fabrication	Mullion	Tie
Carpet	Family member	Operations	Tolerances
Ceilings	Field survey	Paint	Triad
Certification	Fire alarms	Partition layout	Truss
Chillers	Fireproofing	Photos	Vestibule
Cladding	Fire spread	Pipes	Vibration
Collapse	Flammability	Plumbing	Walls
Columns	Floor	Probability, uncertainty	Water supply
Communication systems	Floor load	Quality control	Weather
Composite truss	Floor slab	Reinforcing (strengthening)	Weight
Computer output	Floor system	Renovation	Weld detail
Computer program	Floor trusses	Repair	Weld size
Concrete	Foundations	Research & Development	Welding
Connections	Fracture	Roof	Wind
Construction	Frame	Safety	Windows
Contract	Frame analysis	Schedule	Yield strength
Core beams	Frequency	Sculpture	
Core columns	Fuel	Security system	Add
Cranes	Furniture layout	Shear knuckle	
Criteria	H Generators	Shear test	
Dampers	Guidelines	Shop drawings	
Debris	Gypsum board	Shortening	
Deck	Hat truss	Slurry wall	

WTCI-722-LERA

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 2 - EXTERIOR WALL TREE	11/26/71

REVISIONS

2-ABO- 0	11/26/71	2-A1- 13	12-18-67	2-B1- 13	8/20/68	2-AB2- 30	10/16/68
2-A1- 1	5/ 1/69	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
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				2-AB2- 34	8/20/68		
				2-AB2- 35	8/20/68		



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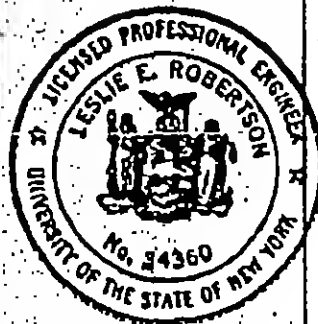
PROJECT THE WORLD TRADE CENTER

TITLE DRAWING BOOK 2 - EXTERIOR WALL TREE

DATE 10/ 1/69

REVISIONS

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2-A1 - 2	12-18-67	2-B1 - 2	8/20/68	2-AB2 - 2	4- 7-67	SA-126	5- 9-67
2-A1 - 3	7-28-67	2-B1 - 3	7-28-67	2-AB2 - 3	4- 7-67	SA-127	4- 7-67
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				2-AB2 - 36	10/16/68		



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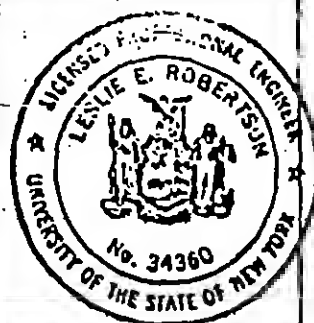
PROJECT THE WORLD TRADE CENTER

TITLE DRAWING BOOK 2 - EXTERIOR WALL TREE

DATE 9/ 2/69

REVISIONS

2-A1 - 1	5/ 1/69	2-B1 - 1	5/ 1/69	2-AB2- 1	5/ 1/69	SA-125	4- 7-67
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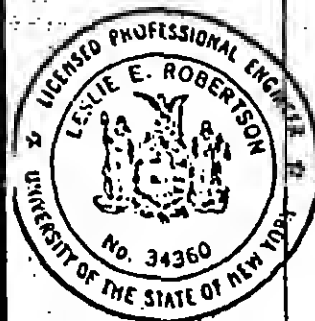


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Civil & Structural Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 2 - EXTERIOR WALL TREE	7/ 1/69

PROVISIONS							
2-A1 - 1	5/ 1/69	2-01 - 1	5/ 1/69	2-A02 - 1	5/ 1/69	SA-125	4- 7-67
2-A1 - 2	12-18-67	2-01 - 2	8/20/68	2-A02 - 2	4- 7-67	SA-126	5- 8-67
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Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

DRAWING BOOK 2 - EXTERIOR WALL TREE

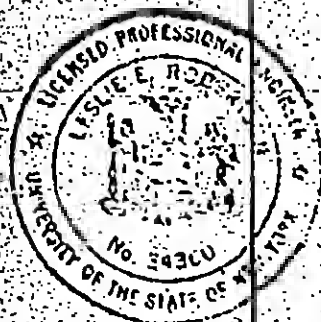
DATE

4/ 1/69

REVISIONS

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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

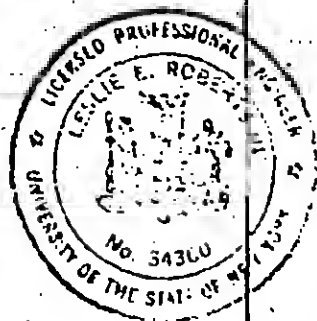
DRAWING BOOK 2 - EXTERIOR WALL TREE

DATE

4/ 1/69

REVISIONS

2-A1 - 1	4/ 1/69	2-B1 - 1	4/ 1/69	2-AB2 - 1	4/ 1/69	SA-125	4- 7-67
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE DRAWING BOOK 2 - EXTERIOR WALL TREE

DATE 3/ 3/69

REVISIONS

2-A1- 1	3/ 3/69	2-B1- 1	3/ 3/69	2-AB2- 1	3/ 3/69	SA-125	4- 7-67
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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-A1- 13	12-18-67	2-B1- 13	8/20/68	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-AB2- 36	10/16/68		



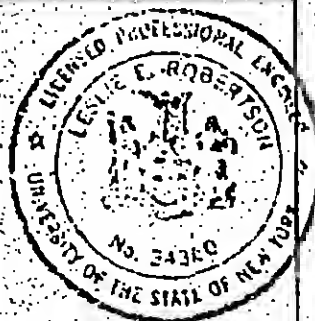
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER TITLE DRAWING BOOK 2 - EXTERIOR HALL TREE DATE 2/ 3/69

REVISIONS

2-A1- 1	2/ 3/69	2-B1- 1	2/ 3/69	2-AB2- 1	2/ 3/69	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	2/15/68
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	SU-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-A1- 13	12-18-67	2-B1- 13	8/20/68	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-AU2- 21	7-25-67		
				2-AU2- 22	8/20/68		
				2-AB2- 23	1- 2-68		
				2-AB2- 24	12-18-67		
				2-AB2- 25	12-18-67		
				2-AB2- 26	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-AB2- 36	10/16/68		



SKILLING,HELLE,CHRISTIANSEN,ROBERTSON

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PROJECT THE WRLC TRACE CENTER TITLE DRAWING BOCK 2 - EXTERIOR WALL TREE DATE 1/3/69

REVISIONS

2-A1-1	1/ 2/69	2-B1-1	1/ 3/69	2-AB2-1	1/ 3/69	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	2/15/68
2-A1-5	12-18-67	2-B1-5	8/20/68	2-AB2-5	7-28-67	SE-125	2/15/68
2-A1-6	12-18-67	2-B1-6	12-18-67	2-AB2-6	7-17-67	SE-126	2/15/68
2-A1-7	12-18-67	2-B1-7	8/20/68	2-AB2-7	4- 7-67	SE-127	2/15/68
2-A1-8	12-18-67	2-B1-8	8/20/68	2-AB2-8	4- 7-67	SE-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-A1-13	12-18-67	2-B1-13	8/20/68	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-AB2-36	10/16/68		



SKILLING-HELLE-CHRISTIANSEN-ROBERTSON

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PROJECT THE WORLD TRADE CENTER

TITLE DRAWING BOOK 2 - EXTERIOR WALL TREE

DATE 1-2-68

REVISIONS

2-A1-1	7-25-67	2-B1-1	7-25-67	2-AB2-1	4-7-67	SA-125	4-7-67
2-A1-2	12-18-67	2-B1-2	12-18-67	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	12-18-67	2-AB2-4	7-28-67	SA-128	5-8-67
2-A1-5	12-18-67	2-B1-5	12-18-67	2-AB2-5	7-28-67	SB-125	5-8-67
2-A1-6	12-18-67	2-B1-6	12-18-67	2-AB2-6	7-17-67	SB-126	5-8-67
2-A1-7	12-18-67	2-B1-7	12-18-67	2-AB2-7	4-7-67	SB-127	5-8-67
2-A1-8	12-18-67	2-B1-8	12-18-67	2-AB2-8	4-7-67	SB-128	5-8-67
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	12-18-67	2-AB2-10	4-7-67		
2-A1-11	12-18-67	2-B1-11	12-18-67	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-A1-13	12-18-67	2-B1-13	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	7-25-67		
				2-AB2-23	1-2-68		
				2-AB2-24	12-18-67		
				2-AB2-25	12-18-67		
				2-AB2-26	VOID		
				2-AB2-27	VOID		
				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	12-18-67		
				2-AB2-35	12-18-67		
				2-AB2-36	12-18-67		



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

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) (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) (11) (11) (11) (12) (3) (3) (13)

SPANDREL LEVEL D 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) (18) (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



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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

13-3-69

	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)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
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)	(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) (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)	(18)	(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 (KS)
(4) REQUIRED YIELD STRENGTH FOR PLATE B2 AND B3 (KS)
(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 TB4 (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-AB2-23 THRU 24



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

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

REVISIONS

1-3-69

2-3-69

	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) (5)	(2) (3) (4) (5)	(2) (3) (4) (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) (9)	(8) (3) (3) (3) (9)	(8) (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) (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 FYB4 TB7 FYD7 TB8 FYB6 WELD 8 SCL SCR COL.1 COL.2 COL.3		
(1)	(14) (3) (15) (16) (17) (17) (17)	(18) (3) (18) (3) (18) (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 TB4 (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



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

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

REVISIONS

1-3-69

	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	
111	(2)	(3)	(4)	(5)	(6)	(7)	(3)	(4)	(5)	(6)	(7)	(2)	(3)	(4)	(5)	(6)	(7)	(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									
111				(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					
111	(8)	(3)	(3)	(3)	(3)	(9)	(8)	(3)	(3)	(3)	(9)	(8)	(3)	(3)	(3)	(3)	(3)					
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									
111			(10)	(3)	(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	FYB4	TB7	FYD7	TB8	FYB8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3			
111	(14)	(3)	(15)	(16)	(17)	(17)	(17)	(16)	(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



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

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

REVISIONS

	LEVEL B COLUMN 1	LEVEL B COLUMN 2	LEVEL B COLUMN 3	UPPER COL. SPLICE
PNL NO	TYPE FYD1 FYD2 FYD6 WELD 3	TYPE FYD1 FYD2 FYD6 WELD 3	TYPE FYD1 FYD2 FYD6 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)	
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	
(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) (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	TD4 FYD4 TD7 FYD7 TD8 FYD8 WELD 8 SCL SCR COL.1 COL.2 COL.3		
(1)	(14) (3) (15) (16) (17) (17) (17)	(18) (3) (18) (3) (18) (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
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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



WORTHINGTON, SKILLING, HELLE & JACKSON			Civil & Structural Engineers	
PROJECT	THE WORLD TRADE CENTER	TITLE	EXTERIOR WALL - TREC - SCHEDULE NOTES	DATE 7-25-67

REVISIONS	LEVEL D COLUMN 1	LEVEL D COLUMN 2	LEVEL D COLUMN 3	UPPER COL. SPLICE
1-3-69	PNL NO TYPE FYD1 FYD2 FYD6 WELD 3	PNL NO TYPE FYD1 FYD2 FYD6 WELD 3	PNL NO TYPE FYD1 FYD2 FYD6 WELD 3	COL.1 COL.2 COL.3
2-3-69				
3-3-69	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)
4-1-69				
Printed 5-1-69	PNL NO LEVEL C COL.1 TYPE FYC1 FYC2	PNL NO LEVEL C COL.2 TYPE FYC1 FYC2	PNL NO LEVEL C COL.3 TYPE FYC1 FYC2	
	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)	
	LEVEL D COLUMN 1	LEVEL D COLUMN 2	LEVEL D COLUMN 3	
	PNL NO TYPE FYD1 FYD2 FYD5 FYD6 WELD 2	PNL NO TYPE FYD1 FYD2 FYD5 WELD 2	PNL NO TYPE FYD1 FYD2 FYD5 FYD6 WELD 2	
	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)	(1) (2) (3) (4) (5) (6)	
	PNL NO LEVEL E TYPE FYE1 FYE2 FYE3 FYE4 FYE5 FYE6 FYE7 FYE8 WELD 5 WELD 6 WELD 7	LEVEL E TYPE FYF1 FYF2 LCS		
	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)		
	SPANDREL LEVEL D SEAT DETAILS	SPANDREL LEVEL D	SEAT DETAILS	
	PNL NO TB4 FYD4 SCL SCR COL.1 COL.2 COL.3	PNL NO TB4 FYD4 TD7 FYD7 TD8 FYD8 WELD 8 SCL SCR COL.1 COL.2 COL.3		
	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	

- (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



WORTHINGTON, SKILLING, HELLE & JACKSON			Civil & Structural Engineers	
PROJECT	THE WORLD TRADE CENTER	TITLE	EXTERIOR WALL - TREE - SCHEDULE NOTES	DATE
				7-25-67

REVISIONS	LEVEL B COLUMN 1	LEVEL B COLUMN 2	LEVEL B COLUMN 3	UPPER COL. SPLICE
1-3-69	PNL NO TYPE FYB1 FYB2 FYB6 WELD 3	TYPE FYD1 FYD2 FYD6 WELD 3	TYPE FYD1 FYD2 FYD6 WELD 3	COL.1 COL.2 COL.3
2-3-69				
3-3-69	(1) (2) (3) (4) (3) (5)	(2) (3) (4) (3) (5)	(2) (3) (4) (3) (5)	(6) (6) (6)
4-1-69	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) (9)	(8) (3) (3) (3) (9)	(8) (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) (11) (11) (11)	(12) (3) (3) (13)		
	SPANDREL LEVEL D SEAT DETAILS	SPANDREL LEVEL D	SEAT DETAILS	
	PNL NO TB4 FYB4 SCL SCR COL.1 COL.2 COL.3	TB4 FYD4 TD7 FYD7	TD3 FYD8 WELD 8 SCL SCR	COL.1 COL.2 COL.3
	(1) (14) (3) (15) (16) (17) (17) (17)	(18) (3) (13) (3) (18) (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
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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-AB2-3 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



WORTHINGTON, SKILLING, HELLE & JACKSON			Civil & Structural Engineers		
PROJECT	THE WORLD TRADE CENTER	TITLE	EXTERIOR WALL - TREE - SCHEDULE NOTES	DATE	7-25-67

REVISIONS:	LEVEL B COLUMN 1	LEVEL B COLUMN 2	LEVEL B COLUMN 3	UPPER COL. SPLICE
3-69	PNL NO TYPE FYB1 FYB2 FYB6 WELD 5	TYPE FYD1 FYD2 FYD6 WELD 3	TYPE FYD1 FYD2 FYD6 WELD 3	COL.1 COL.2 COL.3
2-3-69	(1) (2) (3) (4) (5) (2) (3) (4) (3) (5) (2) (3) (4) (3) (5) (6) (6) (6)			
3-3-69	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) (5) (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) (11) (11) (11) (12) (3) (3) (13)			
	SPANDREL LEVEL B SEAT DETAILS	SPANDREL LEVEL D	SEAT DETAILS	
	PNL NO TB4 FYU4 SCL SCR COL.1 COL.2 COL.3	TU4 FYU4 TU7 FYU7 TU3 FYU8 WELD 8 SCL SCR COL.1 COL.2 COL.3		
	(1) (14) (3) (15) (16) (17) (17) (17) (18) (3) (13) (3) (18) (3) (19) (20) (21) (17) (17) (17)			

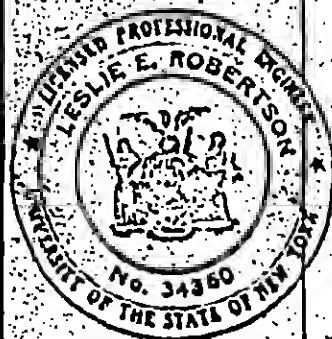
- (1) PANEL NUMBER - IDENTIFIED BY COLUMN NUMBER FOR CENTER COLUMN OF PANEL AND TOWER DESIGNATION A OR B
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SCHEDULED COLUMN 1 IS THE LEFT COLUMN, COLUMN 2 THE MIDDLE COLUMN AND COLUMN 3 THE RIGHT COLUMN
- (2) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES 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 TB4 (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
DETAIL NUMBER FOR SEAT DETAILS - SEE 2-AB2-31 THRU 36



WORTHINGTON, SKILLING, HELLE & JACKSON Civil & Structural Engineers
 PROJECT THE WORLD TRADE CENTER TITLE EXTERIOR WALL - TREE - SCHEDULE NOTES DATE 7-25-67

VISIONS	LEVEL B COLUMN 1	LEVEL B COLUMN 2	LEVEL B COLUMN 3	UPPER COL. SPLICE
3-69	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
2-3-69	(1) (2) (3) (4) (5)	(2) (3) (4) (5)	(2) (3) (4) (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) (9) (3) (3) (3) (9)	(9) (3) (3) (3)	(9) (8) (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) (2) (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	TD4 FYC4 TD7 FYD7 TD8 FYD8 WELD 8 SCL SCR COL.1 COL.2 COL.3		
	(1) (14) (3) (15) (16) (17) (17) (17) (18) (3) (13) (3) (18) (3) (19) (20) (21) (17) (17) (17)			

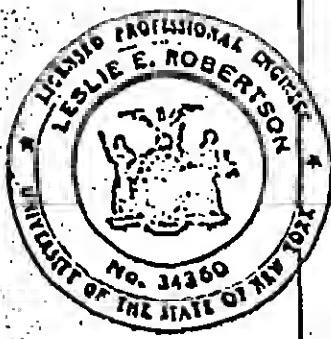
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- (2) COLUMN TYPE. FOR DIMENSIONS, PLATE THICKNESSES AND WELDS - SEE 2-AB2-4 THRU 6
 (3) REQUIRED YIELD STRENGTH FOR INDICATED PLATE (KSI)
 (4) REQUIRED YIELD STRENGTH FOR PLATE B2 AND B3 (KSI)
 (5) WELD SIZE (INCHES) SEE 2-AB2-4 FOR LOCATION
 (6) 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



WORTHINGTON, SKILLING, HELLE & JACKSON Civil & Structural Engineers
 PROJECT THE WORLD TRADE CENTER TITLE EXTERIOR HALL - TREE - SCHEDULE NOTES DATE 7-25-67

REVISIONS														
1-3-69														
LEVEL B COLUMN 1					LEVEL B COLUMN 2					LEVEL B COLUMN 3				
PNL NO	TYPE	FYB1	FYB2	FYB6 HELD 3	TYPE	FYB1	FYB2	FYB6 HELD 3	TYPE	FYB1	FYB2	FYB6 HELD 3	UPPER COL. SPLICE	
													COL.1	COL.2
(1)	(2)	(3)	(4)	(5)	(2)	(3)	(4)	(5)	(2)	(3)	(4)	(5)	(6)	(6)
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)
LEVEL D COLUMN 1					LEVEL D COLUMN 2					LEVEL D COLUMN 3				
PNL NO	TYPE	FYD1	FYD2	FYD5 FY 4 HELD 2	TYPE	FYD1	FYD2	FYD5 HELD 2	TYPE	FYD1	FYD2	FYD5 FYD6 HELD 2		
(1)	(6)	(3)	(3)	(3)	(9)	(3)	(3)	(3)	(9)	(3)	(3)	(3)	(3)	(9)
PNL NO	LEVEL E	TYPE	FYE1	FYE2	FYE3	FYE4	FYE5	FYE6	FYE7	FYE8 HELD 5	HELD 6	HELD 7	LEVEL F TYPE FYF1 FYF2 LCS	
(1)			(10)	(3)	(3)	(3)	(3)	(3)	(3)	(11)	(11)	(11)	(12)	(3)
SPANDREL LEVEL H SEAT DETAILS					SPANDREL LEVEL D SEAT DETAILS									
PNL NO	T04	FY04	SCL	SCR	COL.1	COL.2	COL.3	T04	FY04	T07	FY07	T08	FY08 HELD 8	SCL SCR COL.1 COL.2 COL.3
(1)	(14)	(3)	(15)	(15)	(17)	(17)	(17)	(15)	(3)	(15)	(3)	(15)	(20)	(21)

- (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 02 AND 03 (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-AB2-9 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 04 (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



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LEVEL B COLUMN 1						LEVEL B COLUMN 2					LEVEL B COLUMN 3					UPPER COL. SPLICE			
PNL NO	TYPE	FYB1	FYD2	FYB6	WELD 3	TYPE	FYD1	FYB2	FYD6	WELD 3	TYPE	FYB1	FYD2	FYD6	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)	
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)		
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)	(11)	(11)	(11)		(12)	(3)	(3)	(13)	
SPANDREL LEVEL D SEAT DETAILS						SPANDREL LEVEL D					SEAT DETAILS								
PNL NO	TB4	FYD4	SCL	SCR	COL.1	COL.2	COL.3	TB4	FYD4	TB7	FYD7	TB9	FYD8	WELD 8	SCL	SCR	COL.1	COL.2	COL.3
(1)	(14)	(3)	(15)	(16)	(17)	(17)	(17)	(18)	(3)	(18)	(3)	(18)	(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 HELDS - 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 HELDS - SEE 2-AB2-7
(8) COLUMN TYPE, FOR DIMENSIONS, PLATE THICKNESSES AND HELDS - SEE 2-AB2-8 THRU 11
(9) WELD SIZE (INCHES) SEE 2-AB2-8 FOR LOCATION
(10) ASSEMBLY TYPE, FOR DIMENSIONS, PLATE THICKNESSES AND HELDS - SEE 2-AB2-12 THRU 15
(11) WELD SIZE (INCHES) SEE 2-AB2-13 FOR LOCATION
(12) COLUMN TYPE, FOR DIMENSIONS, PLATE THICKNESSES AND HELDS - SEE 2-AB2-16
(13) DETAIL NUMBER FOR LOWER COLUMN SPLICE - SEE 2-AB2-29 AND 30
(14) THICKNESS OF PLATE D4 (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



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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



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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



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2-AB2-34 SEAT DETAILS

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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



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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



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 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



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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