

**ROOF FRAMING PLAN NOTES:**

- (AT STEEL JOIST FRAMING)
- METAL ROOF DECK TO BE 1 1/2" DEEP, 20 GA., GALVANIZED (G-60), TYPE "B". FASTEN ROOF DECK w/ (7) 5/8" DIAMETER PUDDLE WELDS AT EACH SUPPORT AND (5) #10 TEK SCREW SIDELAP FASTENERS EQUALLY SPACED BETWEEN SUPPORTS. REFER TO 1/54.2
  - JOIST SPACING = SEE PLAN.
  - ROOF SLOPE = 1/4" PER FOOT (MIN.) U.N.O.
  - CONTRACTOR TO COORDINATE SIZE, WEIGHT, AND LOCATION OF MECHANICAL EQUIPMENT AND PENETRATIONS WITH MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO JOIST FABRICATION. REFER TO DETAILS 2/54.2, 3/54.2, AND 4/54.2.
  - MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED MAXIMUM OPERATING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
  - INSTALL ROOF TOP EQUIPMENT ON DESIGNATED "SP" JOISTS ONLY. DO NOT PLACE ANY ROOF TOP EQUIPMENT ON STANDARD "K" SERIES JOISTS.
  - J.B. < > = JOIST BEARING ELEVATION. REFER TO PLAN.
  - ( ) = TOP OF STEEL ELEVATION.
  - REFER TO 5/54.2 FOR DECK LEDGER SPLICE.
  - S.M. = INDICATES STEP TOP/MASONRY PARAPET.

**STEEL BEAM SCHEDULE**

MARK	SIZE	TOP/STEEL ELEVATION	COMMENTS
B-1	W16 X 26	16'-0"	
B-2	W12 X 22	13'-3"	
B-3	W18 X 35	16'-0"	
B-4	W16 X 26	16'-0"	
B-5	W16 X 26	16'-0"	
B-6	W12 X 22	13'-3"	
B-7	W16 X 26	16'-0"	
B-8	W12 X 22	13'-3"	
B-9	W16 X 26	16'-0"	
B-10	W12 X 22	13'-3"	
B-11	HSS 10 X 4 X 3/8 (LSV)	11'-10 3/4"	
B-12	WB X 10	12'-9 3/4"	
B-13	CB X 11.5	12'-9 3/4"	

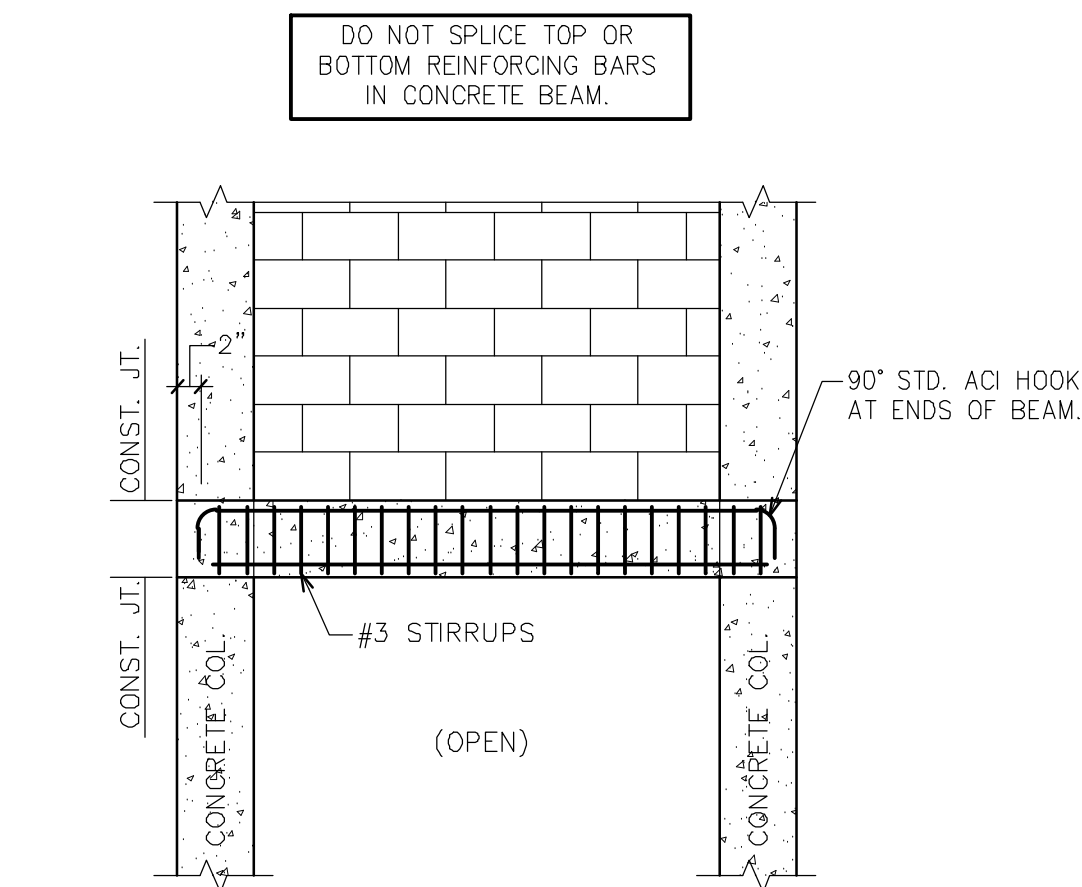
**LEGEND**

- 8" MASONRY PARAPET w/ #6 AT 32" O.C. MAX. (TYP.) U.N.O. (LAP SPLICE w/ REINFORCING FROM BELOW). REFER TO PLAN FOR ADD'L/SPECIFIC REINFORCING REQUIREMENTS.
- HATCH INDICATES PRECAST LINTEL BEAM. REFER TO CONCRETE LINTEL SCHEDULE THIS SHEET.
- 12" TAPERED MASONRY WING WALL TOP/MASONRY ELEV. = 14'-8"
- HATCH INDICATES METAL STUD WALL FRAMING BY A DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- STEEL ROOF JOIST. SEE PLAN.
- METAL STUD JOISTS BY DELEGATED ENGINEER
- STEEL BEAM OR JOIST GIRDER. SEE PLAN.
- DENOTES CONT. HORIZONTAL UPLIFT BRIDGING AT FIRST BOTTOM CHORD PANEL POINT
- BRIDGING EQUALLY SPACED BETWEEN SUPPORTS w/ X-BRIDGING AT END BAYS. ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE (SJI) REQUIREMENTS.

**CONCRETE BEAM SCHEDULE**

MARK	SIZE	REINFORCING		COMMENTS
		CONT. BARS	STIRRUPS	
CB1	8" X 24"	(2) #6 CONT. TOP, MID., AND BOT.	#3 AT 10" O.C.	TYPE A

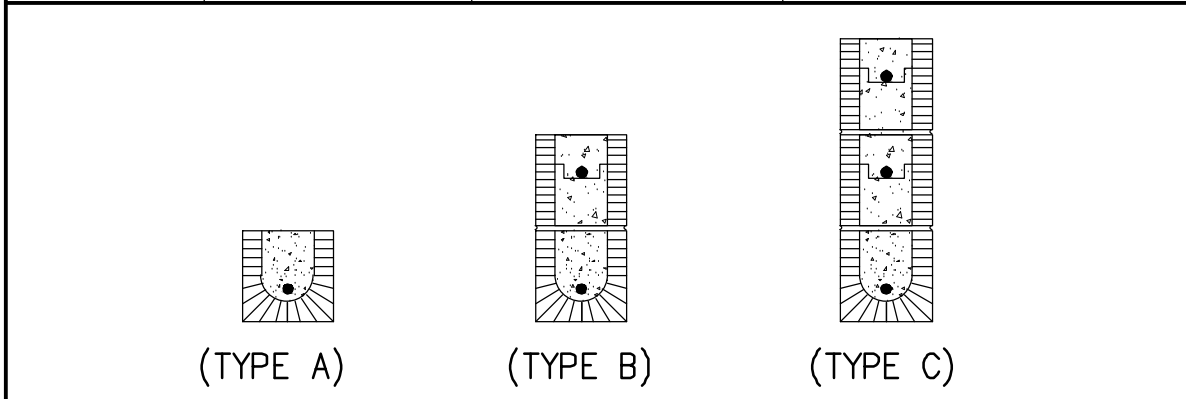
- NOTES:**
- REFER TO 2/54.2 FOR TYPICAL CONCRETE BEAM REINFORCING DETAIL.
  - BEAM DEPTHS MAY BE INCREASED AS REQUIRED FOR MASONRY COURSING. COORDINATE WITH ARCHITECTURAL REQUIREMENTS.



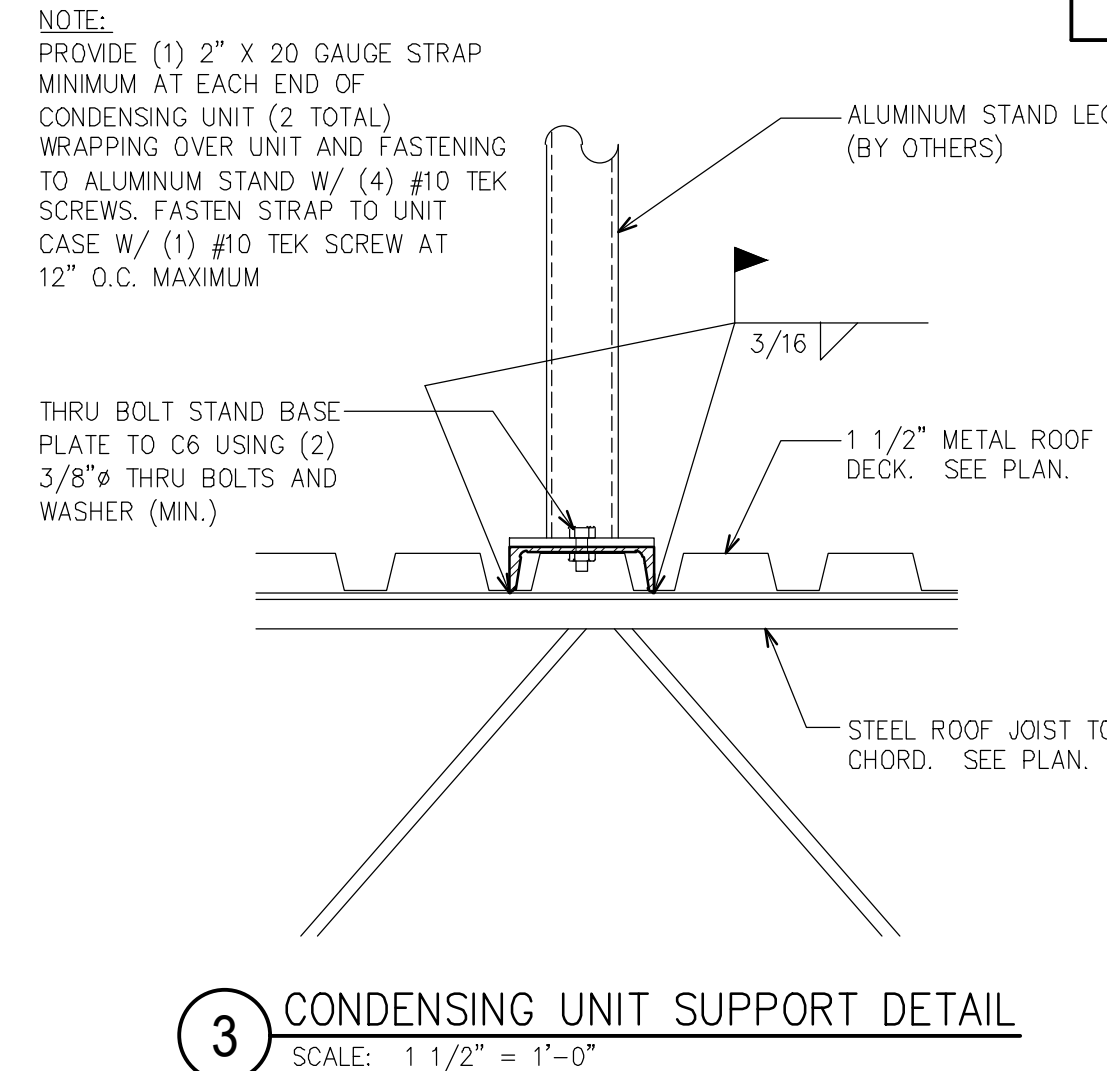
2 CONCRETE BEAM REINFORCING DETAIL  
NOT TO SCALE

**CONCRETE LINTEL SCHEDULE**

MARK	SIZE	REINFORCING BARS	COMMENTS
L-1	8" X 8"	(1) #5 CONT.	TYPE A
L-2	8" X 16"	(2) #5 CONT.	TYPE B
L-3	8" X 24"	(3) #5 CONT.	TYPE C; BOT./B.M. = 10'-0"



- NOTES:**
- ALL MASONRY OPENINGS TO HAVE PRECAST LINTEL TYPE L-1 U.N.O.
  - REFER TO 7/54.2 FOR ADDITIONAL PRECAST LINTEL REQUIREMENTS.
  - ALL LINTELS AND KNOCK-OUT BLOCKS TO BE GROUTED SOLID.
  - ALL LINTELS EXCEEDING OPENING SPAN OF 14'-0" TO BE PRESTRESSED U.N.O.



3 CONDENSING UNIT SUPPORT DETAIL  
SCALE: 1 1/2" = 1'-0"

**BUILDING DATA**

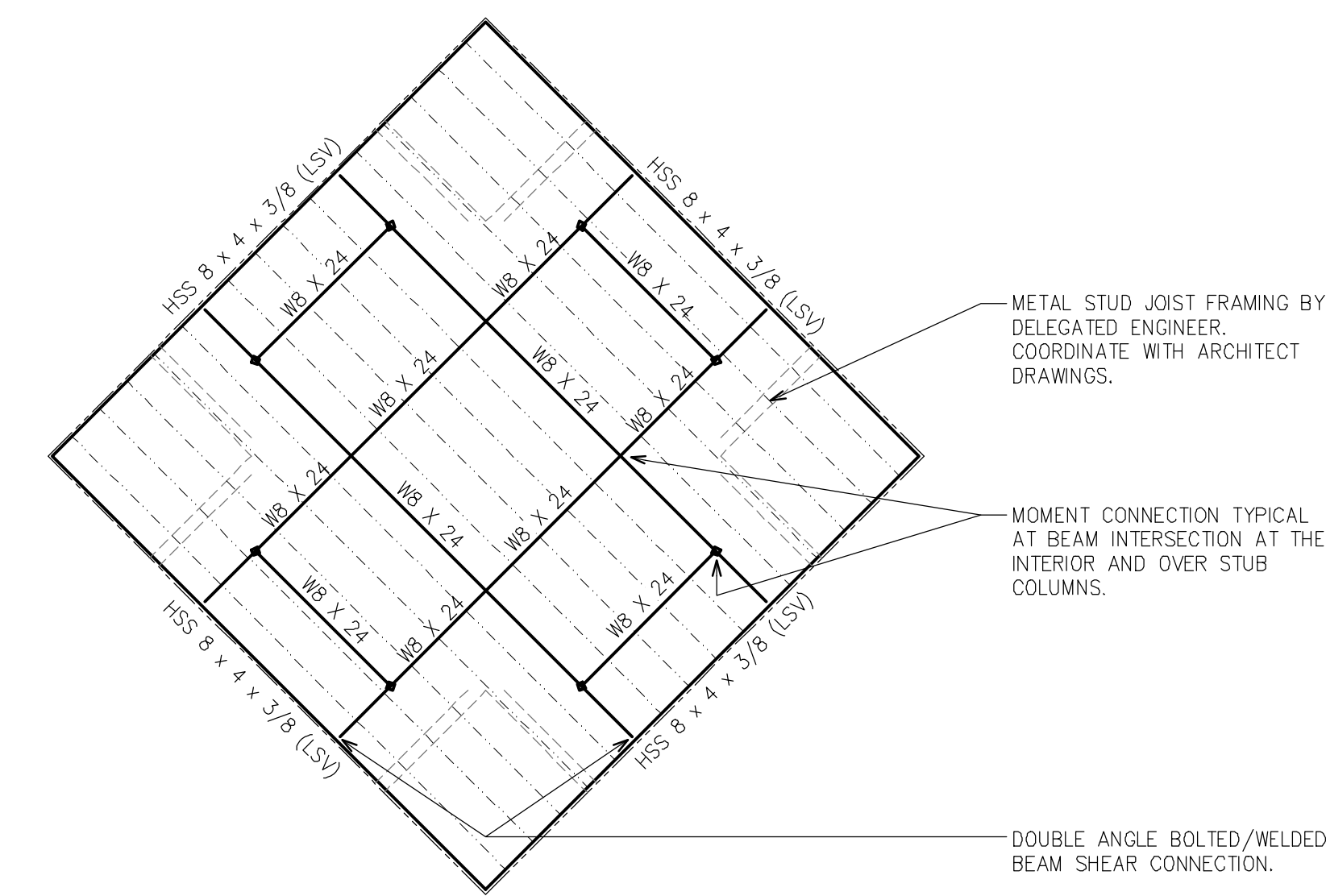
ULTIMATE WIND SPEED (mph): (FIGURE 1609)	170	INTERNAL PRESSURE COEFFICIENT: (Enclosed Building per ASCE 7-10)	+/- 0.18
WIND LOAD FACTOR:	0.6	WIDTH OF EDGE STRIP (Feet):	8.0
RISK CATEGORY: (TABLE 1604.5)	II	WIND EXPOSURE CATEGORY:	C
ROOF ANGLE (A) (Degrees)	4<7.0	DEAD LOAD RESISTING UPLIFT (psf):	10.0

**DESIGN WIND LOADS - COMPONENTS & CLADDING (Values per ASD)**

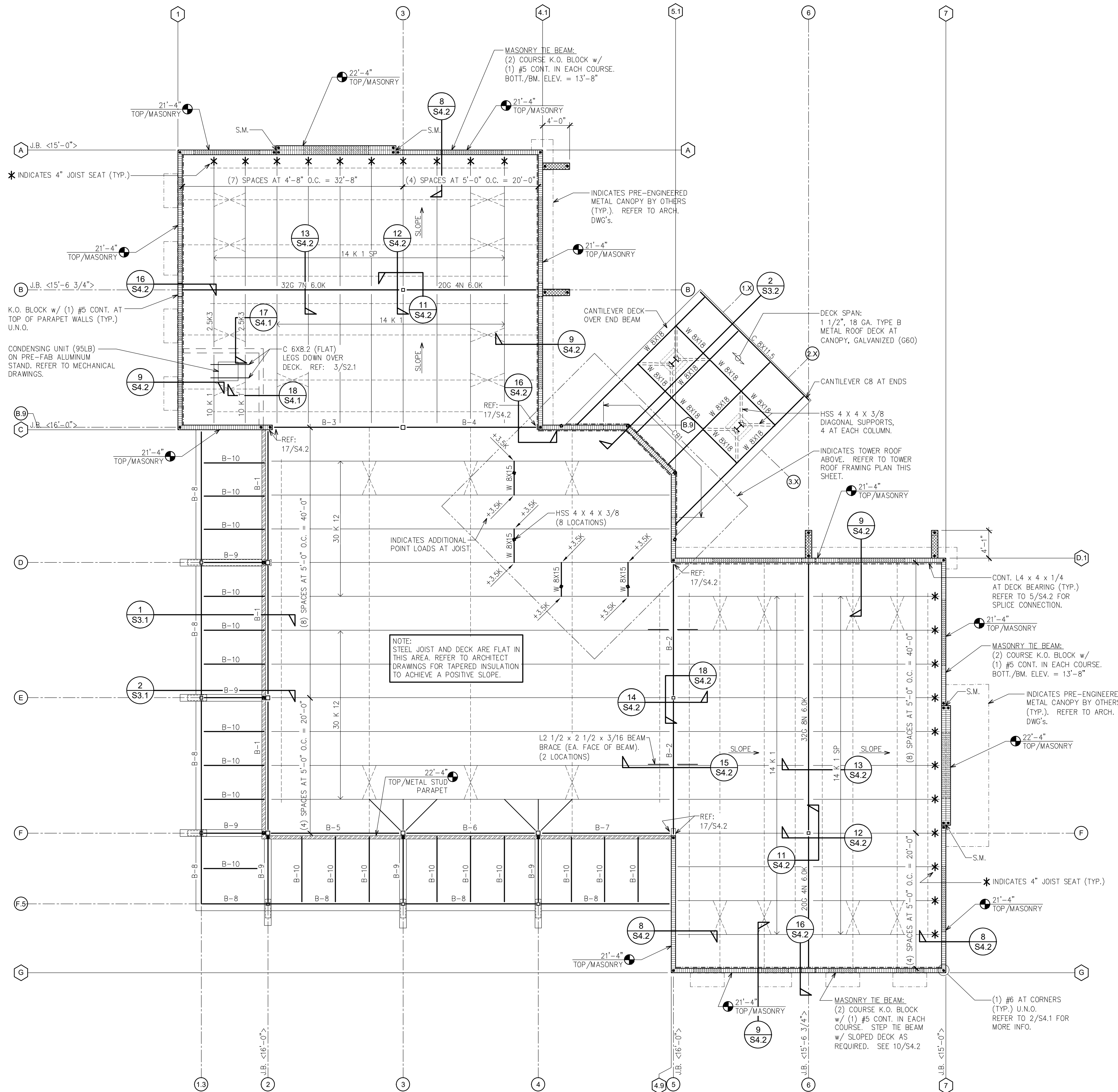
ZONE	AREA (sq ft)	ROOF			ZONE	AREA (sq ft)	WALL		
		Positive	Negative	Net Uplift			Positive	Negative	
1	10.0	16.33	-40.16	-30.16	4	10.0	36.75	-39.81	
1	20.0	15.31	-39.13	-29.13	4	20.0	35.12	-38.19	
1	50.0	13.96	-37.78	-27.78	4	50.0	32.97	-36.03	
1	100.0	12.93	-36.75	-26.75	4	100.0	31.34	-34.41	
2	10.0	36.75	-67.38	-57.38	5	10.0	36.75	-49.00	
2	20.0	35.12	-60.21	-50.21	5	20.0	35.12	-45.75	
2	50.0	32.97	-50.73	-40.73	5	50.0	32.97	-41.44	
2	100.0	31.34	-43.56	-33.56	5	100.0	31.34	-38.19	
3	10.0	36.75	-67.38	-57.38					
3	20.0	35.12	-60.21	-50.21					
3	50.0	32.97	-50.73	-40.73					
3	100.0	31.34	-43.56	-33.56					

- Notes:**
- For effective area between those given above the load may be interpolated, otherwise use the load associated with the lower effective area.
  - Plus and minus signs signify pressures acting toward and away from the building surfaces, respectively.
  - See pressure zone diagrams above for corresponding zones.

1 DESIGN WIND CRITERIA (ASD DESIGN)  
NOT TO SCALE



TOWER ROOF FRAMING PLAN  
SCALE: 1/8" = 1'-0"



ROOF FRAMING PLAN  
SCALE: 1/8" = 1'-0"

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BULLETIN LOG

**minto**  
CITY OF WESTLAKE  
PALM BEACH COUNTY, FLORIDA

**WESTLAKE VISITOR CENTER**  
CITY OF WESTLAKE  
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: -- 09-30-16  
ISSUED FOR: PERMIT BUILDING SHELL ONLY

REVISION LOG

NO.	DESCRIPTION

**EAG**  
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Alan C. Guenther, P.E. #53308 / C.A. #26813

ALAN C. GUENTHER, PE #53308  
TO THE BEST OF HIS KNOWLEDGE AND BELIEF, THE ABOVE REPRESENTS A TRUE AND ACCURATE STATEMENT OF THE PROJECT'S STATUS AND THE APPLICABLE AND/OR THE SHEET'S STANDARD.

**WESTLAKE VISITOR CENTER**  
PROJECT NAME  
**ROOF FRAMING PLAN**  
SHEET NAME  
PROJECT NUMBER: 2016.037  
DRAWN BY: MAK CHECKED BY: ACC  
SCALE: SEE SHEET  
**S2.1**  
SHEET NUMBER