

RECEIVED 3/13/2025

LATTICE TOP 2"x3" Lattice TUBES Z" APArt For 60% Shade

10' 4 concern se 32" CUBE

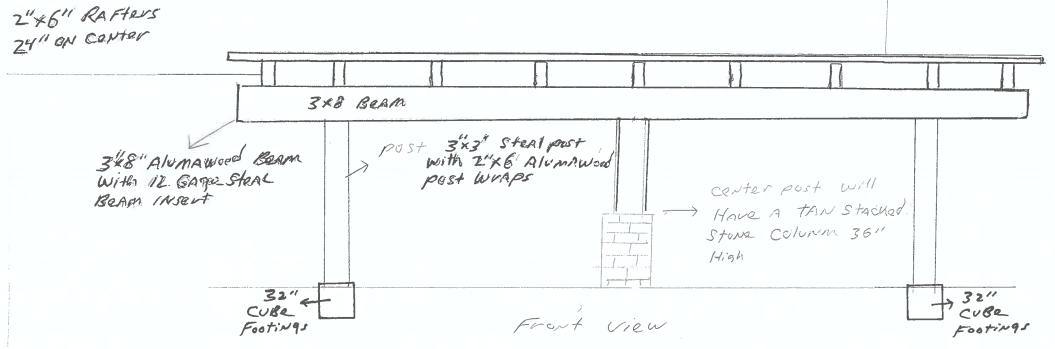
ISOMETRIC VIEW

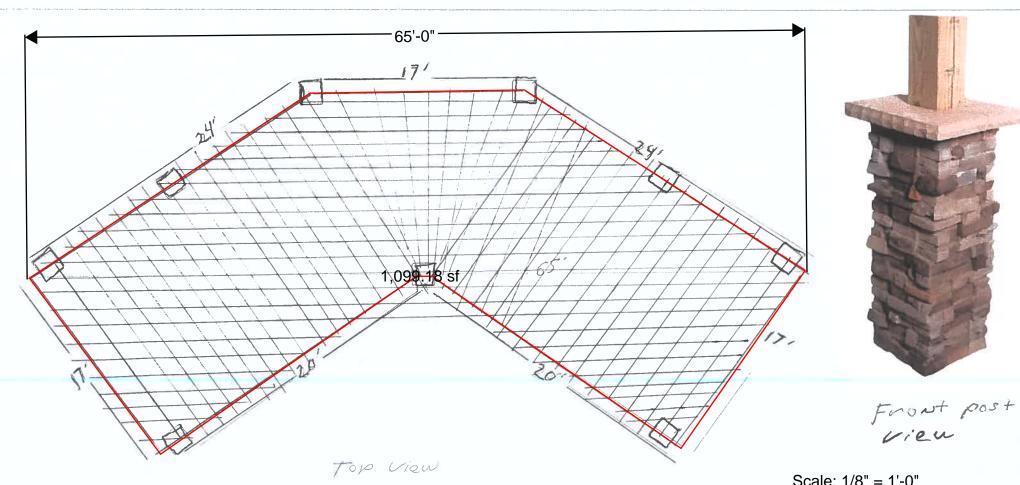
Footings

3/32*=1'-0*

Shipley NATURE CENTER 17851 Goldenwest St Hurtington Beach CA

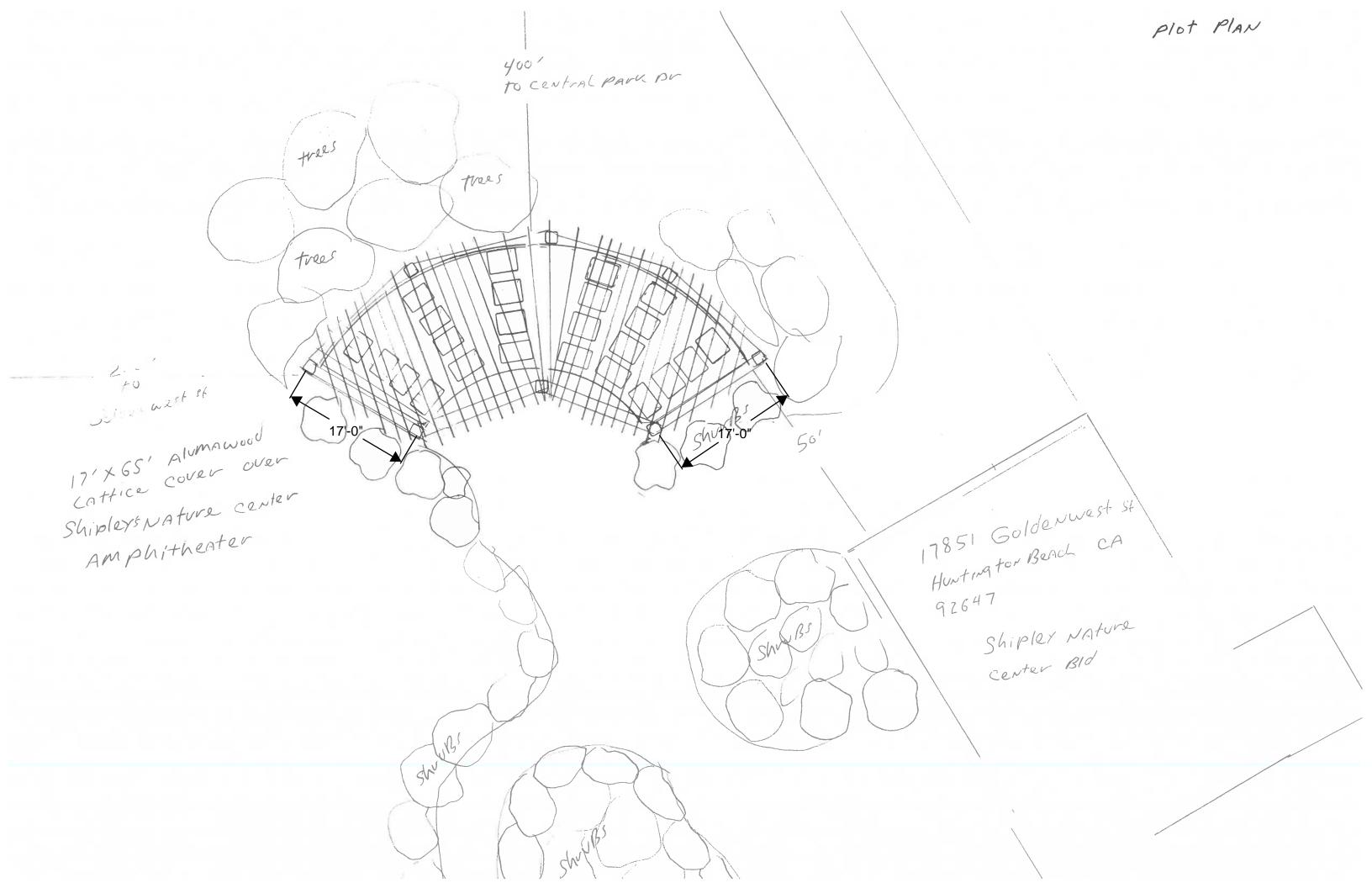
Conceptual Plan Cattice Cover For out now Amphitheater





9-post +9-Footings Footings to Be 320 CURES

Scale: 1/8" = 1'-0"



PATIO COVER SYSTEM AS MFG. BY: DURALUM PRODUCTS, INC.

POINT OF CONTACTS

100 Lattice freestand

INFORMATION REQUESTS SHALL BE DIRECTED AS FOLLOW:

CONTRACTORS: PLEASE CONTACT DURAITIM BUILDING DEPARTMENTS: PLEASE CONTACT 4STEL ENGINEERING HOME OWNERS: PLEASE REQUEST ANY INFORMATION THROUGH YOUR CONTRACTOR



26030 ACERO

HONE: [949] 305-1150 AX: [949] 305-1420

STRUCTURAL ENGINEER OF RECORD:

DUSTIN K. ROSEPINK, SE 5885 MARIE-DOMINIQUE SETA, SE 5987

DESIGN PARAMETERS

THE DESIGN OF ATTACHED AND FREESTANDING COVERS SHOWN IN THIS REPORT COMPLIES WITH THE FOLLOWING CODES:

- 2015/2018/2021 INTERNATIONAL BUILDING AND RESIDENTIAL CODES,
- 2016/2019/2022 CALIFORNIA BUILDING AND RESIDENTIAL CODES,
- ASCE/SEI 7-10 and 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- 2015/2020 ALUMINUM DESIGN MANUAL
- ACI 318-14/19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

- LIVE LOADS DESIGN PARAMETERS:
 IT IS THE RESPONSIBILITY OF THE ENTITY SUBMITTING THE DRAWINGS FOR THIS PROJECT TO VERIFY LIVE LOADS WITH THE LOCAL AUTHORITY HAVING JURISDICTION
- 1. IN RESIDENTIAL APPLICATIONS, ROOF LIVE LOAD CAN GENERALLY BE TAKEN AS 10 PSF PER IRC / CRC APPENDIX H, SECTION AH105.1 OR IBC / CBC APPENDIX L, SECTION 105.1.
- . IN COMMERCIAL APPLICATIONS, ROOF LIVE LOAD CAN GENERALLY BE TAKEN AS 20 PSF PER IBC / CBC CHAPTER 16

WIND SPEED DESIGN PARAMETERS:

- 1. THE FREESTANDING AND ATTACHED COVERS NOTED HEREIN ARE DESIGNED AS "OPEN STRUCTURES," IN ACCORDANCE WITH ASCE/SEL7.
- . FREESTANDING COVERS SHALL NOT BE ENCLOSED WITH ANY TYPE OF SOLID OR MESH MATERIAL, UNLESS SPECIFICALLY DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER
- COVERS SHALL NOT BE INSTALLED IN AREAS NEAR HILLS, RIDGES AND ESCARPMENTS AS DEFINED IN ASCE/SEI 7, SECTION 26.2, UNLESS SITE SPECIFIC ENGINEERING IS PROVIDED VALIDATING THE WIND LOAD USED.
- . THE BASIC WIND SPEEDS CONSIDERED IN THIS REPORT ARE 110, 120, 130 MPH, EXPOSURES B AND C (BASED ON THE 2015/2018/2021 IBC, 2015/2018/2021 IRC, 2016/2019/2022 CBC, AND 2016/2019/2022 CBC,

SEISMIC LOAD DESIGN PARAMETERS:

SEISMIC DESIGN BASE SHEAR: 17 POUNDS PER LINEAR FOOT ALONG THE SUPPORTING BEAMS, CONSIDERING A 24'-0" MAX SPAN BETWEEN BEAMS AND THE FOLLOWING DESIGN PARAMETERS:

- 1. SITE CLASS: D
- 2. SEISMIC DESIGN CATEGORY: E
- 3. MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 1.50, S1 = 0.6, Sds = 1.0, Sd1 = 0.50
- 4. RESPONSE MODIFICATION FACTOR, R=1.25
- 5. WHEN THE BUILDING CODE USED FOR THE SITE SPECIFIC DESIGN IS ASCE 7-20 (2015 IBC/IRC OR 2016 CBC/CRC), PATIO COVER STRUCTURES DETAILED IN THIS SET OF PLANS ARE IN COMPLIANCE WITH ASCE 7-10 SECTION 12.8.1.3. AS A RESULT, THIS SET OF PLANS CAN BE USED AT ANY SITE WITH 5, > 1.50, CONSIDERING 5, = 1.50.
- . WHEN THE BUILDING CODE USED FOR THE SITE SPECIFIC DESIGN IS ASCE 7-16 (2018/2021 IBC/IRC OR 2019 CBC/CRC), PATIO COVER STRUCTURES DETAILED IN THIS SET OF PLANS ARE IN COMPLIANCE WITH ASCE 7-16 SECTION 12.8.1.3. AS A RESULT, THIS SET OF PLANS CAN BE USED AT ANY SITE WITH 1.0 < Std < 1.428, CONSIDERING Sos = 1.00. FOR SITES WITH Sos < 1.0, USE Sos, FOR SITES WITH Sos > 1.428, IT IS ACCEPTABLE TO REDUCE THE SEISMIC LOADS USING 0.7°SOS INSTEAD OF SOS.
- . MINIMUM STRUCTURAL SEISMIC SEPARATION BETWEEN EXISTING BUILDING AND FREESTANDING PATIO COVER SHALL BE 4" AT 10' HIGH MAX PATIO COVERS AND 5" AT 12' HIGH MAX PATIO COVER. REFER TO STATE AND CITY CODES FOR OTHER SPACING REQUIREMENTS THAT MAY BE MORE STRINGENT.
- 3. WHEN GROUND SNOW LOAD IS HIGHER THAN 30 psf, 10% OF THE SNOW LOAD WAS INCLLIDED IN THE SEISMIC DESIGN.

OTHER DESIGN PARAMETERS:

- 1. DESIGN LOADS COMBINATIONS ARE IN ACCORDANCE WITH IBC AND CBC SECTION 1605.
- 2. ALL APPLICABLE REDUCTION FACTORS DETAILED IN THIS REPORT ARE CUMULATIVE
- 3. SOLID AND LATTICE ALUMINUM COVERS ARE CLASS A ROOF ASSEMBLY IN ACCORDANCE WITH SECTION CBC 1505.2, EXCEPTION 2,

DESIGN ASSUMPTIONS

- 1. MINIMUM ROOF SLOPE FOR SOLID ROOF PANELS WITH DECK: SEE DETAIL 1B/53.2
- . MINIMUM ROOF SLOPE FOR SOLID ROOF PANELS WITH DURAPANEL: SEE DETAIL 1A/53.2
- B. MAXIMUM ROOF SLOPE FOR ALL STRUCTURES IS 3 DEGREES
- . THE "LENGTH OF STRUCTURE" SHALL BE TAKEN AS THE CONTINUOUS DISTANCE MEASURED ALONG THE EXISTING BUILDING WALL FROM ONE END OF PATIO COVER SUPPORT BEAM TO THE OTHER, INCLUDING ANY BEAM SPLICES. THE STRUCTURE LENGTH SHALL BE DETERMINED THIS WAY REGARDLESS OF ROOF COVERING TYPE, INCLUDING COMBINATION ROOFS WITH BOTH TRELLIS AND DECK ROOF USED ON THE SAME CONTINUOUS PATIO COVER STRUCTURE. HOWEVER, PORTIONS OF THE STRUCTURE DESIGNED AS LATTICE COVER SHALL NOT BE COVERED BY ROOF DECK.
- . CALCULATIONS FOR MAXIMUM SPANS WHEN ATTACHING TO AN EXISTING ROOF OVERHANG, AS SHOWN ON TABLE 1 ON S6.1 AND/OR L6.1, ARE ASSUMING THAT THE EXISTING WOOD RAFTERS OR TRUSSES ARE DOUGLAS FIR-LARCH Noz. THIS TABLE CAN ALSO BE USED FOR OTHER WOOD SPECIES WITH Fb ≥ 900 psi AND Fy ≥ 180 psi.

SNOW LOADS DESIGN PARAMETERS

SEE SHEETS S2.1 AND S2.2 OR L2.1 AND L2.2 FOR SNOW LOADS DESIGN PARAMETERS AND CALCULATIONS.

FOR PATIO COVERS WITH SNOW LOADS, CALCULATIONS PREPARED BY A REGISTERED DESIGN PROFESSIONAL SHALL BE SUBMITTED TO THE BUILDING OFFICIAL DEMONSTRATING THAT THE DESIGN SNOW LOADS DO NOT EXCEED THE ALLOWABLE ROOF SNOW LOADS SPECIFIED ON

CALCULATIONS SHALL ADDRESS THE SNOW LOAD PROVISIONS OF IBC SECTION 1608, INCLUDING, BUT NOT LIMITED TO, RAIN-ON-SNOW SURCHARGE LOAD, UNBALANCED SNOW, AND SNOW DRIFT.

SHEET INDEX

SEE SHEET S1.x OR L1.x FOR SHEET INDEX.

ALL UNUSED SHEETS SHALL BE REMOVED FROM THIS SET OF DRAWINGS.

GENERAL NOTES

DRAWING NOTES:

- 1. THE DRAWINGS AND SPECIFICATIONS SHOWN REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE NOTED, AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- 2. THE APPROVED SET OF DRAWINGS AND SPECIFICATIONS SHALL BE KEPT AT THE JOB SITE AND SHALL BE AVAILABLE TO THE AUTHORIZED REPRESENTATIVES OF THE BUILDING AND SAFETY DEPARTMENT. THERE SHALL BE NO DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS WITHOUT AN APPROVED CHANGE ORDER.

MATERIAL SPECIFICATIONS:

- 1. ALUMINUM ALLOYS SPECIFIED ON DRAWINGS. Fty = 28 KSI AND Ftu = 35 KSI FOR ALL ALUMINUM MEMBERS UNO. Fty = 30 KSI FOR DURAKING AND T6 PANS SHOWN ON 53.3. ALTERNATE ALUMINUM ALLOYS MAY BE SUBSTITUTED FOR THOSE SHOWN, PROVIDED THEY ARE REGISTERED WITH THE ALUMINUM ASSOCIATION, ASTM OR EN (EUROPEAN STANDARDS), AND HAVE EQUAL OR GREATER YIELD
- 2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 POUNDS PER SQUARE INCH.
- 3. EMBEDDED STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED, AND CONFORM TO A500 GRADE B. ROLL FORMED STEEL MEMBERS SHALL CONFORM TC A653-SS (STRUCTURAL STEEL) GRADE 50 G60.
- 4. BOLTS: ALUMINUM BOLTS SHALL BE 2024-T4; STEEL BOLTS SHALL BE ASTM A-307. ALL BOLTS SHALL HAVE STANDARD-CUT PLATED WASHERS.
- 5. SCREWS: ALL SCREWS ARE SELF DRILLING (SDS) OR SHEET METAL SCREWS (SMS) IN CONFORMANCE WITH ICC-ES ESR 1976, ICC-ESR 3006, OR APPROVED EQUAL
- 6. FASTENERS TO WOOD: WOOD AND LAG SCREWS ARE REQUIRED TO BE INSTALLED IN ACCORDANCE WITH THE 2015 NATIONAL DESIGN SPECIFICATIONS, INCLUDING PRE-DRILLING OF HOLES. ALL LAG SCREWS SHALL BE FULL-THREADED LAG SCREWS.
- 7. POST-INSTALLED ANCHORS: POST-INSTALLED ANCHORS USED SHALL BE SIMPSON STRONG TIE STRONG BOLT 2, STAINLESS STEEL (ICC-ESR 3037) OR EQUAL BOLTS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION AND IAPMO REPORT. SPECIAL INSPECTION IS NOT REQUIRED.
- 8. ALL COMPONENTS MANUFACTURED OR SUPPLIED BY DURALUM AND DESCRIBED IN THIS DOCUMENTS ARE INTERCHANGEABLE, PROVIDED THEY ARE SELECTED APPROPRIATELY TO SUPPORT THE LOADING
- 9. THE SELF WEIGHT OF THE PATIO COVER COMPONENTS IN THIS REPORT CAN BE CALCULATED FROM THEIR SECTION PROPERTIES. THE SOLID COVERS VARY IN WEIGHT FROM ABOUT 1 PSF TO ABOUT 3 PSF. 10. ROOF INSULATED PANELS (WHERE OCCURS). SEE \$3.2 AND JAPMO 505.

FOOTINGS:

- 1. ALL NEW CONCRETE FOOTINGS SHALL BEAR ON FIRM, NATURAL, UNDISTURBED SOIL OR CERTIFIED FILL.
- 2. DESIGN VERTICAL SOIL BEARING PRESSURE IS 1,500 POUNDS PER SQUARE FOOT.
- 3. DESIGN LATERAL SOIL BEARING PRESSURE IS 200 POUNDS PER SQUARE FOOT PER FOOT OF FOOTING DEPTH. (EQUALS 100 PSF/FT x 2 PER TABLE 1806.2 AND SECTION 1806.3.4).
- 4. THE BOTTOM OF FOOTINGS SHALL EXTEND BELOW THE FROST DEPTH, CONTRACTOR TO VERIFY FROST DEPTH WITH AUTHORITY HAVING JURISDICTION.

SLAB ON GRADE USED AS A FOUNDATION SYSTEM:

IN ACCORDANCE WITH IRC/CRC APPENDIX H, SECTION AH105.2, AND IBC/IRC APPENDIX I, SECTION 1105.2, IN AREAS WITH A FROST DEPTH EQUAL TO ZERO, ATTACHED COVERS FOR RESIDENTIAL USE MAY BE SECURED TO AN EXISTING CONCRETE SLAB PROVIDED THE FOLLOWING:

- 1. THE SLAB ON GRADE IS AT LEAST 3 1/2 INCHES THICK. SEE DETAIL 3 ON 57.2 OR LT.2 AND DETAIL 4 ON 57.1 OR LT.1 FOR REQUIREMENTS FOR THICKER SLAB.
- 2. THE SLAB ON GRADE SHALL BE CONTINUOUS BETWEEN COLUMNS AND A MINIMUM OF 10"-0" WIDE. WITHIN THIS AREA, THERE SHALL BE NO CRACKS WIDER THAN 1/4" OR CONTROL/EXPANSION JOINT DEEPER/WIDER THAN 3/4".
- 3. THERE SHALL BE A 6" MINIMUM DISTANCE BETWEEN ANY ANCHOR BOLT AND A SLAB-EDGE, CRACK WIDER THAN 1/32" OR CONTROL/EXPANSION JOINT DEEPER THAN 1/2". SEE DETAILS 4 ON 57.1 OR L7.1 FOR EXCEPTION TO MINIMUM EDGE DISTANCE.
- 4. DESIGN FOR PATIO COVERS SUPPORTED ON CONCRETE SLAB ON GRADE IS IN ACCORDANCE WITH THE IRC/CRC SECTION AH105.2 FOR 10 PSF LL RESIDENTIAL CONSTRUCTION, CONSIDERING A MAXIMUM DEAD AND LIVE LOAD AT EACH COLUMN OF 750 POUNDS.
- 5. DESIGN FOR PATIO COVERS SUPPORTED ON CONCRETE SLAB ON GRADE IS IN ACCORDANCE WITH ACI 318-19 FOR 20, 25 AND 30 PSF LL/GSL RESIDENTIAL AND COMMERCIAL CONSTRUCTION.

NOTES TO LOCAL AUTHORITY HAVING JURISDICTION AND ENTITY SUBMITTING DRAWINGS FOR APPROVAL

USE OF THIS SET OF PLANS FOR A SITE SPECIFIC PROJECTS

- 1. NOT ALL PAGES OF THIS SET OF DRAWINGS WILL BE USED FOR A SITE SPECIFIC PROJECT, EACH PROJECT SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION SHOULD INCLUDE ONLY THE PERTINENT SITE-SPECIFIC STRUCTURAL COMPONENTS LOCATED WITHIN THIS IAPMO-LISTED EVALUATION REPORT.
- 2. ALL ITEMS PERTAINING TO EACH INSTALLATION (TYPE OF ROOF PANEL, HEADER SPAN, COLUMN SIZE, CONNECTION DETAILS ETC.) SHALL BE CIRCLED AND CLEARLY IDENTIFIED BY THE ENTITY SUBMITTING
- 3. PLEASE NOTE THAT 4STEL ENGINEERING GENERATED AND STAMPED THE ORIGINAL JAPMO PRODUCT DRAWINGS AS AVAILABLE FROM JAPMO DIRECTLY, BUT WAS NOT INVOLVED IN MAKING ANY SITE SPECIFIC SELECTIONS OR ANOTATIONS ON THOSE DRAWINGS. ANY HANDMARKING OR HIGHLIGHTING ON THE SITE SPECIFIC SET OF DRAWINGS ARE THE RESPONSIBILITY OF THE ENTITY SUBMITTING THE
- 4. EACH INSTALLATION SHALL BEAR AN IDENTIFYING TAG INDICATING THE NAME AND ADDRESS OF THE MANUFACTURER DESIGN LOADS AND ENCLOSABILITY.
- 5. THE ORIGINAL IAPMO REPORT BEARS AN ELECTRONIC STAMP FROM 4STEL ENGINEERING, AND A WET STAMP IS NOT REQUIRED IN ACCORDANCE WITH THE REGULATIONS STATED BY THE PROFESSIONAL
- 6. A COLOR COPY OF THE ORIGINAL PAGES FROM THE IAPMO REPORT IS NOT REQUIRED. A COLOR COPY OF THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED IF SELECTIONS WERE MADE IN A WAY THAT WILL NOT BE VISIBLE ON A BLACK AND WHITE COPY
- 7. THESE PRODUCT DRAWINGS REPRESENT THE DESIGNS EVALUATED FOR RECOGNITION AS PART OF IAPMO UES EVALUATION REPORT ER-195. THESE DRAWINGS TOGETHER WITH IAPMO UES-ER-195 ARE COLLECTIVELY REFERRED TO IN THIS DOCUMENT AS "THIS EVALUATION REPORT".
- 8. A FULL COPY OF THIS IAPMO REPORT IS AVAILABLE AT: HTTP://WWW.IAPMOES.ORG/BUILDING-PRODUCTS-EVALUATION-REPORT-PROGRAM/EVALUATION-REPORT-DIRECTORY

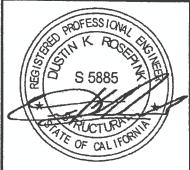
AT A MINIMUM, SUBMISSION FOR A BUILDING PERMIT MUST INCLUDE THE FOLLOWING INFORMATION FROM THIS EVALUATION REPORT:

- 1. SITE SPECIFIC SITE PLAN SHOWING STRUCTURE DIMENSIONS (COLUMN LOCATIONS, BEAM SPANS, OVERHANG LENGTHS...) 2. TITLE SHEET AND GENERAL NOTES SHEET, GO.1
- 3. PRINTED IAPMO REPORT 195
- 4. STRUCTURAL CONFIGURATION (I.e. SOLID OR LATTICE ROOF, FREESTANDING OR ATTACHED), SHEET \$1.x OR L1.x 5. SNOW LOAD DESIGN SHEETS SZ.1 AND SZ.2, WHERE APPLICABLE.
- 6. BASED ON THE REQUIRED DESIGN LOADS, SITE-SPECIFIC RAFTER AND/OR PANEL SPAN TABLES 53.x OR L3.x
- 7. TYPE OF HEADER, POST TYPE & QUANTITY, FOOTING SIZE (WHERE REQUIRED) BASED ON THE SITE-SPECIFIC DESIGN LOADS.
- 8. APPROPRIATE STRUCTURAL DETAILS.
- 9. SEE S1 x OR L1 x FOR SHEFT INDEX

JOB NAME: Shipley NATURE	LIVE LOAD (PSF):	ROOF SNOW LOAD (PSF)
JOB ADDRESS: 17851 Guidenwest st	10 PSF	VERIFIED W/ AHJ (OR N/A):
Huntington Beach CA	WIND SPEED (MPH) AND EXPOSURE (B OR C):	GROUND SNOW LOAD (PSF) VERIFIED WI AHJ (OR NIA) :
92547	110 psf	



2485 RAILROAD ST **CORONA, CA 92880** 951.736,4500



DATE SIGNED: June 6, 2024



26030 ACERO, SUITE 200 MISSION VIEJO, CA 92691 949.305.1150 | FAX 949.305.1420

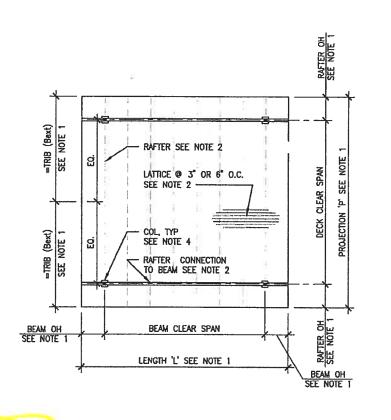
PATIO COVER SYSTEMS BY DURALUM - V3.1.3

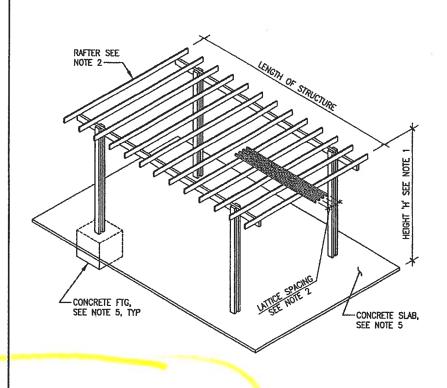
THESE DRAWINGS REPRESENT THE DESIGNS EVALUATED BY IAPMO UES AND REFERENCED IN THE FOLLOWING EVALUATION REPORT:

IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB#		DA02-03
DATE		06/05/24
DRAWN BY		RW
CHECKED	l'a	MD

TITLE SHEET, DESIGN LOADS **GENERAL NOTES**





3/32"=1'-0"

TABLE 1 MINIMUM NUMBER OF POSTS REQUIRING ATTACHMENT PER 3/L6,3

l .	W	TTH 2 x 6.5	x 0.032 \$11	E PLATES					
		(SIDE P	LATE TYPE	SP3)					
TRIB		WINI	SPEEDA	ND EXPOS	URE				
WIDTH	110B	110B 110C 120B 120C 130B 130C							
5'	2	2	2	3	3	3			
6	2	3	3	3	3	4			
r	2	3	3	4	3	4			
8'	3	3	3	4	4	5			
8	3	4	4	4	4	5			
10"	3	4	4	5	5	6			
11'	4	4	4	5	5	6			
12'	4	5	5	6	5	7			
	W		x 0.042 SI						
		(SIDE P	LATE TYPE	SP4)					
TRIB		WIN	SPEEDA	ND EXPOS	URE	****			
WIDTH	110B	11DC	120B	120C	130B	130C			
5'	2	2	2	2	2	3			
6	2	2	2	3	3	3			
7	2	3	3	3	3	4			
8,	2	3	3	4	3	4			
8,	3	3	3	4	4	5			
10'	3	4	4	4	4	5			
11'	3	4	4	5	5	- 6			
12	3	4	4	5	5	5			

NOTES:

- 1. NUMBER OF POSTS SHOWN IN THIS TABLE IS A MINIMUM, ADD POSTS AS REQUIRED TO ENSURE THAT THE "MAX POST SPACING (SPAN)" SHOWN ON SHEETS L8.xx.x IS NOT EXCEEDED.
- 2. THIS TABLE IS TO BE USED IN CONJUNCTION WITH DETAIL 3/L6.3.
- 3. THIS TABLE DOES NOT APPLY IF THE SIDE PLATES ARE PROVIDED FOR AESTHETICAL PURPOSES AND THE BEAM IS CONNECTED TO THE COLUMN DIRECTLY PER 2/L6.3 OR WITH A BRACKET PER 1/L4.3 & 1/L6.3.



NOTES:

C

PLAN VIEW

1. PATIO COVER DIMENSIONS

- A SEE DESIGN ASSUMPTION 4 ON GO.1 FOR PATIO COVERS CONSISTING OF SOLID COVERS AND LATTICE FRAMING.
- B. HEIGHT OF STRUCTURE 'H' (TO TOP OF COVER) SHALL NOT BE OVER 12 FT.

1/16"=1'-0"

- C. BEAM OVERHANG 'OH' SHALL NOT EXCEED 25% OF BEAM'S ADJACENT CLEAR SPAN. D. RAFTER OVERHANG 'OH' SHALL NOT EXCEED 25% OF RAFTER'S ADJACENT CLEAR SPAN,
- E. LATTICE OVERHANG 'OH' SHALL NOT EXCEED 25% OF THE TOTAL UNSPLICED LENGTH OF THE LATTICE MEMBER OR 24", WHICHEVER IS LESS.
- F. TRIBUTARY WIDTH ARE AS SHOWN ON PLAN:
 - TRIB (Bext)= 1/2 ADJACENT RAFTER CLEAR SPAN @ RIGHT + RAFTER OH @ LEFT
 - TRIB (BLDG)= 1/2 ADJACENT RAFTER CLEAR SPAN

2. LATTICE COVERS

- A. SEE SHEET L4.1 FOR LATTICE PROFILES.
- B. SEE SHEET L3.1F FOR RAFTER PROFILES AND MAXIMUM SPANS.
- C. SEE SHEET L2.2 FOR REDUCTION OF RAFTER MAXIMUM SPAN WHEN DESIGNING FOR SNOW
- E. SEE SHEETS L6.1 FOR CONNECTION OF LATTICE COVERS TO (E) BUILDING.ROOF OF STRUCTURES DESIGNED AS LATTICE COVERS SHALL REMAIN UNCOVERED, THERE SHALL BE NO OBSTRUCTIONS TO THE FLOW OF WIND THROUGH THE LATTICE MEMBERS, SUCH AS FARRIC OR PLANTS.
- F. CLEAR SPACING OF LATTICE MEMBERS SHALL BE EQUAL TO OR LARGER THAN THEIR WIDTH, AND NOTHING SHALL BE ADDED TO COVER THE LATTICE MEMBERS, THAT COULD OBSTRUCT WIND FLOW, INCLUDING, BUT NOT LIMITED TO FABRIC OR PLANTS.
- G. IF CLEAR SPACING BETWEEN LATTICE FRAMING MEMBERS IS MORE THAN 1.5 TIMES THEIR WIDTH (OR ON CENTER SPACING IS MORE THAN 2.5 TIMES THEIR WIDTH), IT IS ACCEPTABLE TO DESIGN THE STRUCTURE FOR A GROUND SNOW LOAD OF 20 PSF, EVEN IF THE SITE SPECIFIC GROUND SNOW LOADS ARE HIGHER THAN 20 PSF AND UP TO 84 PSF.

3. BEAMS

- A. SEE SHEET L4.1 FOR BEAM PROFILES.
- B. SEE SHEET L4.4 FOR FAN BEAM DETAILS.
- C. SEE SHEETS 9/L7.2 & L8.xx.x FOR TABLES SHOWING MAXIMUM BEAM SPAN.
- D. SEE SHEET L2.2 FOR REDUCTION OF BEAM MAXIMUM SPAN WHEN DESIGNING FOR SNOW

ISOMETRIC VIEW

E. SEE SHEETS LG.x FOR BEAM CONNECTIONS & DETAILS.

B

4. COLUMNS

- A. SEE TABLE 1 ON THIS SHEET FOR MINIMUM NUMBER OF COLUMNS REQUIRED BASED ON COVER DIMENSIONS.
- B. SEE SHEET L4.2 FOR COLUMN PROFILES.
- C. SEE SHEETS 9/L7.2 AND L8.xx.x FOR TABLES SHOWING MAXIMUM POST SPACING.
- D. SEE SHEETS L6.x & L7.x FOR COLUMN CONNECTIONS & DETAILS.

5. FOUNDATIONS

- A. SEE SHEETS L7.1 AND L7.2 FOR COLUMN CONNECTION TO FOUNDATION.
- B. SEE BEAM SPAN TABLES ON SHEETS LB.xx.x FOR MINIMUM FOOTING SIZE FOR PATIO COVER SUPPORTED ON CONCRETE FOOTING, BASED ON BEAM SPAN SELECTED.
- C. SEE 9/L7.2 FOR ALTERNATE FOOTING SIZES.

SHEET INDEX - LATTICE STRUCTURES: TYPE G

G0.1 - TITLE SHEET, DESIGN LOADS, GENERAL NOTES

L1.3 - LATTICE STRUCTURES: TYPE G L1.5 - LATTICE STRUCTURES: TRIBUTARY WIDTHS TO BEAMS

L2.1 - LATTICE STRUCTURES: SNOW LOAD DESIGN: NEED TO CONSIDER DRIFT AND SUDING DESIGN

L22-LATTICE STRUCTURES: SNOW LOAD DESIGN: SPAN REDUCTION FACTORS

DUE TO DRIFT AND SLIDING

L3.1F - LATTICE STRUCTURES: FREESTANDING COVERS RAFTER SPANS L4.1 - LATTICE STRUCTURES: BEAM PROFILES

L4.2 - LATTICE STRUCTURES: COLUMN PROFILES

L4.3 - LATTICE STRUCTURES: CONNECTORS L4.4 - LATTICE STRUCTURES: FAN BEAM DETAILS

L6.1 - LATTICE STRUCTURES: ATTACHMENT TO EXISTING BUILDING L6.2 - LATTICE STRUCTURES: CONNECTION DETAILS

L6.3 - LATTICE STRUCTURES: CONNECTION DETAILS

L7.1 - LATTICE STRUCTURES: FOUNDATION DETAILS L7.2 - LATTICE STRUCTURES: FOUNDATION DETAILS

L8.xxx-LATTICE STRUCTURES: BEAM SPANS AND FOUNDATION SIZES xx PSF

LL/SL, 1x0 MPH

G9.1 - ADDITIONAL STATE LICENSURE STAMPS

DURALUM

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AHU APPROVAL

PATIO COVER SYSTEMS BY DURALUM - V3.1.3

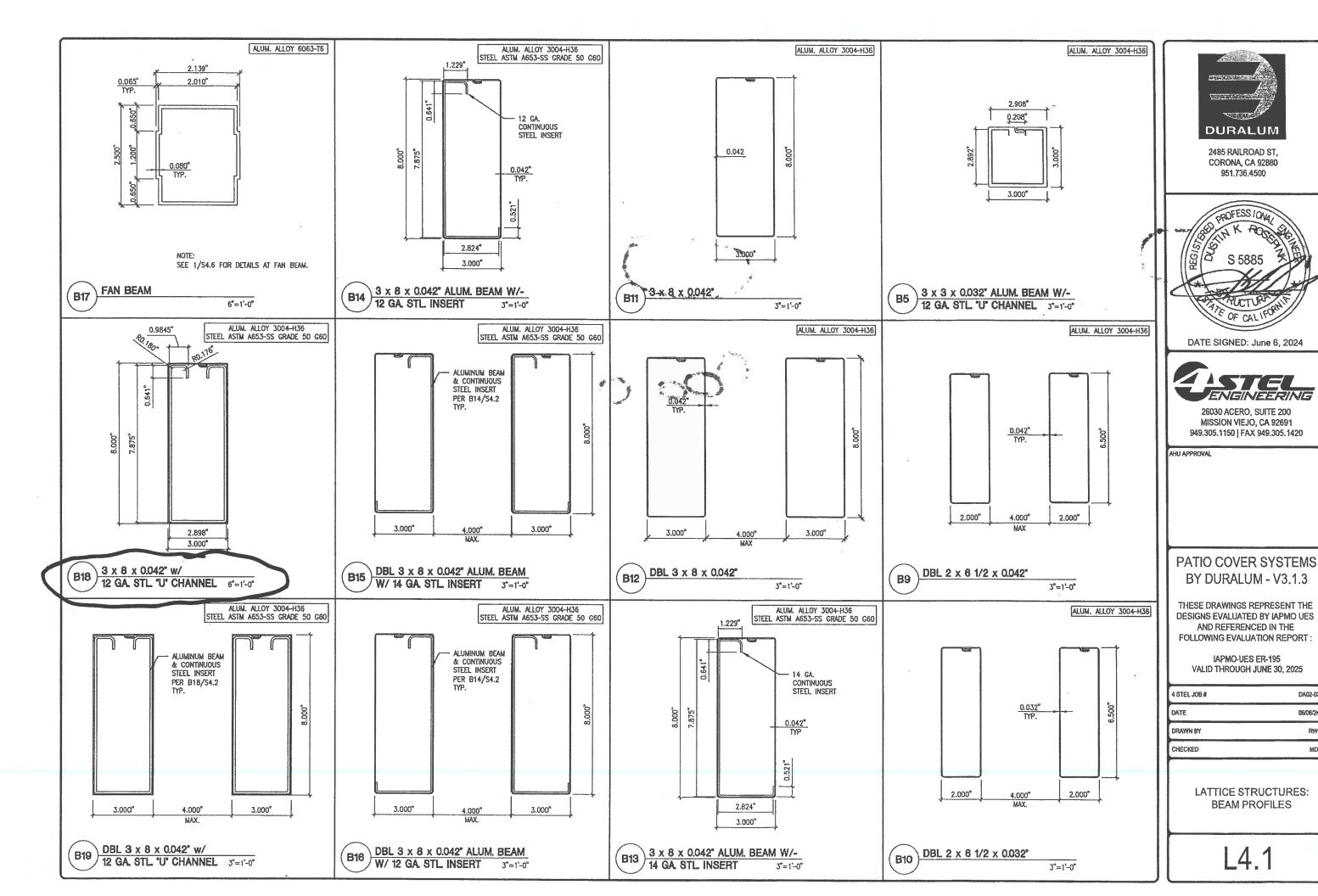
THESE DRAWINGS REPRESENT THE **DESIGNS EVALUATED BY IAPMO UES** AND REFERENCED IN THE FOLLOWING EVALUATION REPORT:

> IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB #	DA02-03
DATE	06/06/24
DRAWN BY	RWC
CHECKED	MDS

LATTICE STRUCTURES: TYPE G

LATTICE COVER STRUCTURE TYPE G: FREESTANDING SINGLE SPAN WITH OPTIONAL CANTILEVER

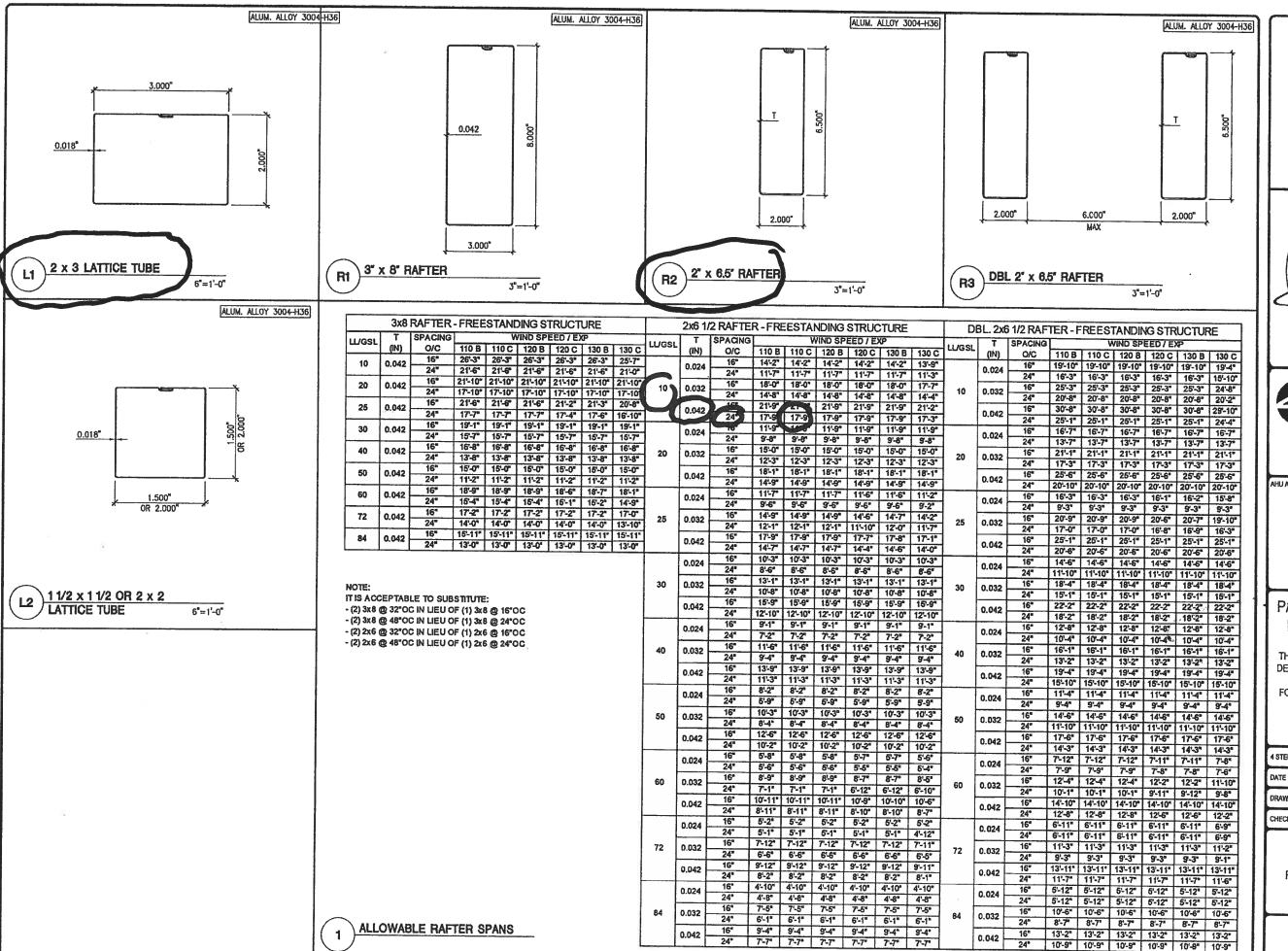


DA02-03

06/06/24

RWC

MDS





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AHU APPROVAL

PATIO COVER SYSTEMS BY DURALUM - V3.1.3

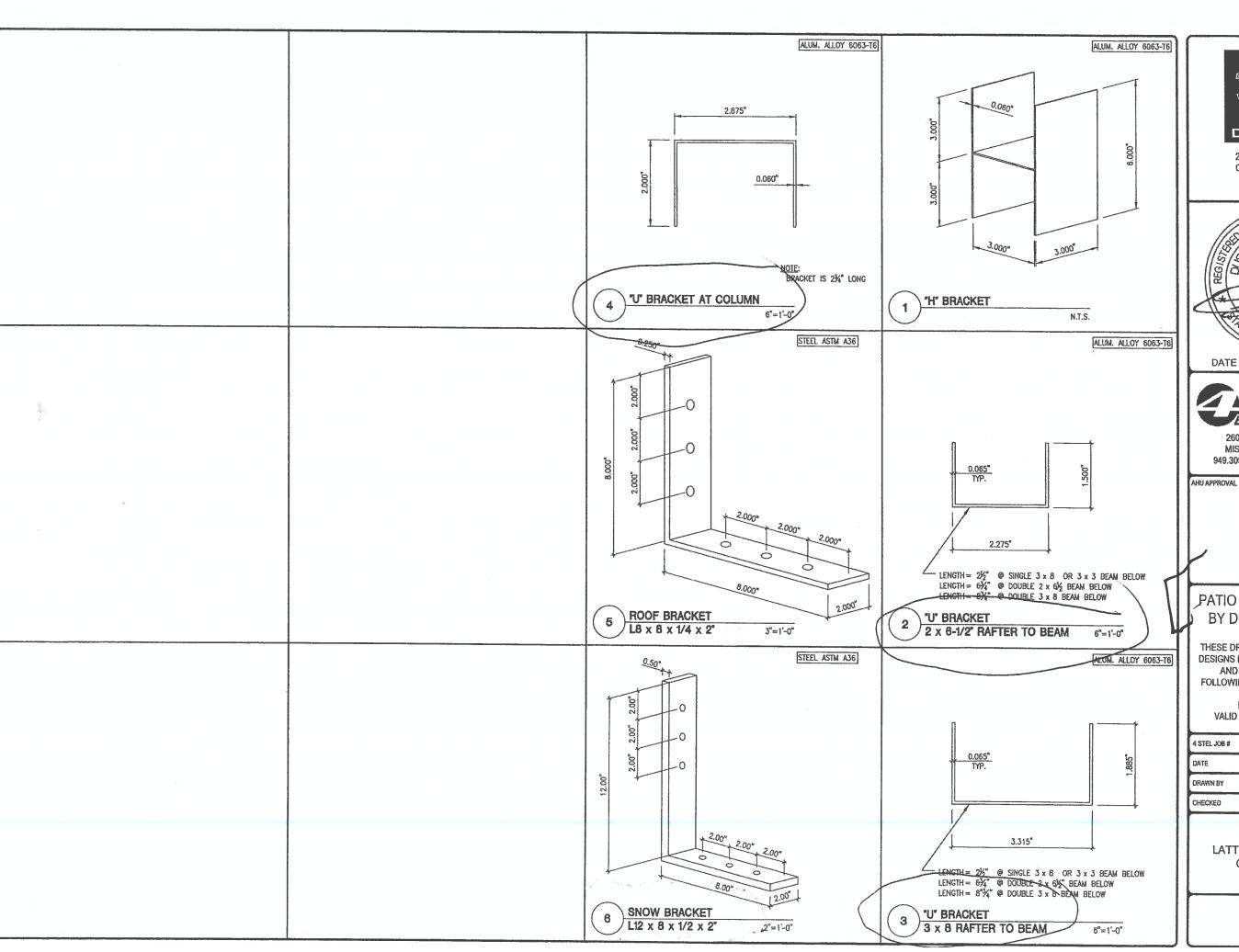
THESE DRAWINGS REPRESENT THE DESIGNS EVALUATED BY IAPMO UES AND REFERENCED IN THE FOLLOWING EVALUATION REPORT:

IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB #	DA02-03
DATE	06/06/24
DRAWN BY	RWC
CHECKED	MDS

LATTICE STRUCTURES: FREESTANDING COVERS RAFTER SPANS

L3.1F





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PATIO COVER SYSTEMS BY DURALUM - V3.1.3

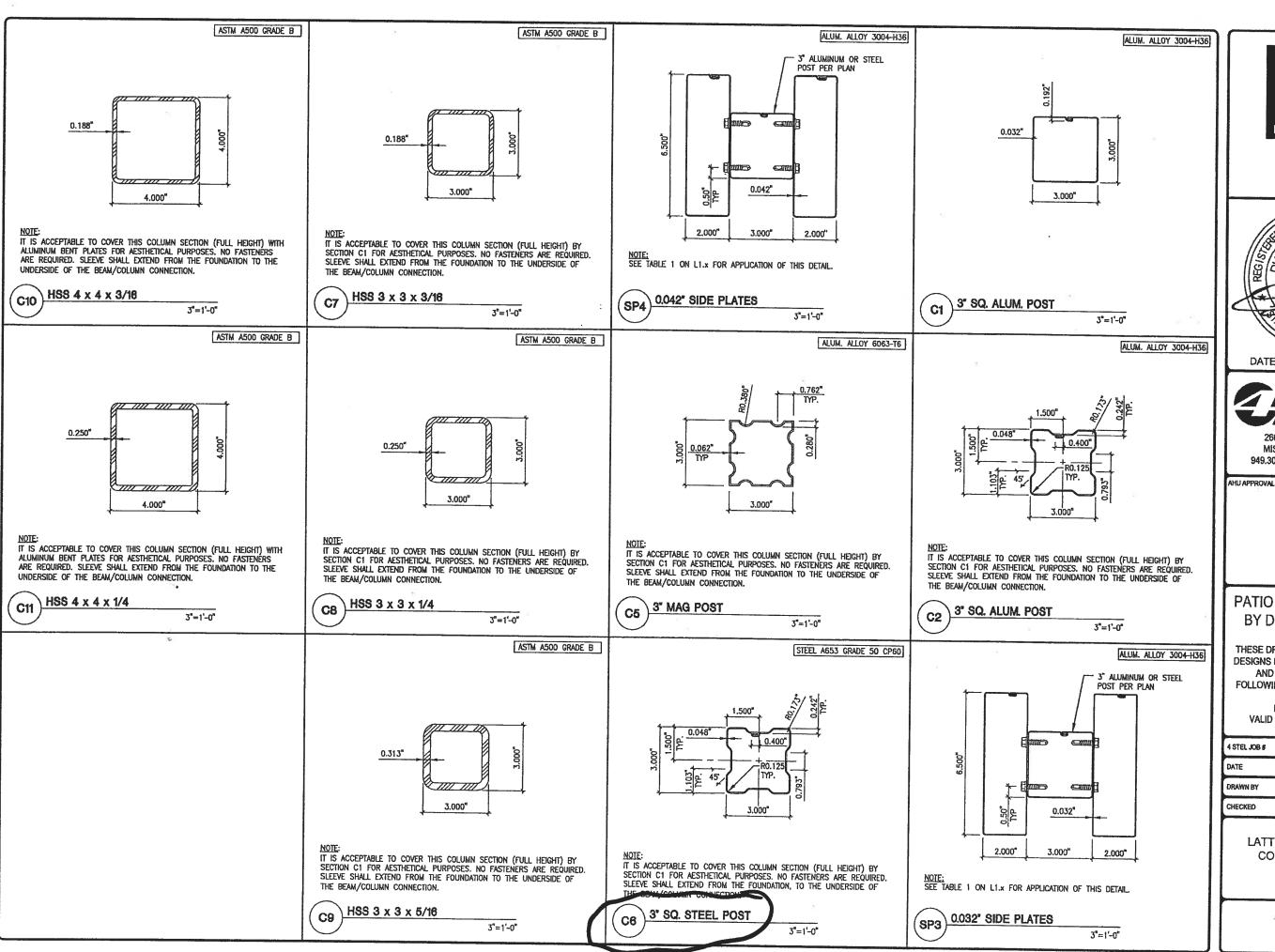
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> IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB #	DA02-03
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LATTICE STRUCTURES: CONNECTORS

L4.3



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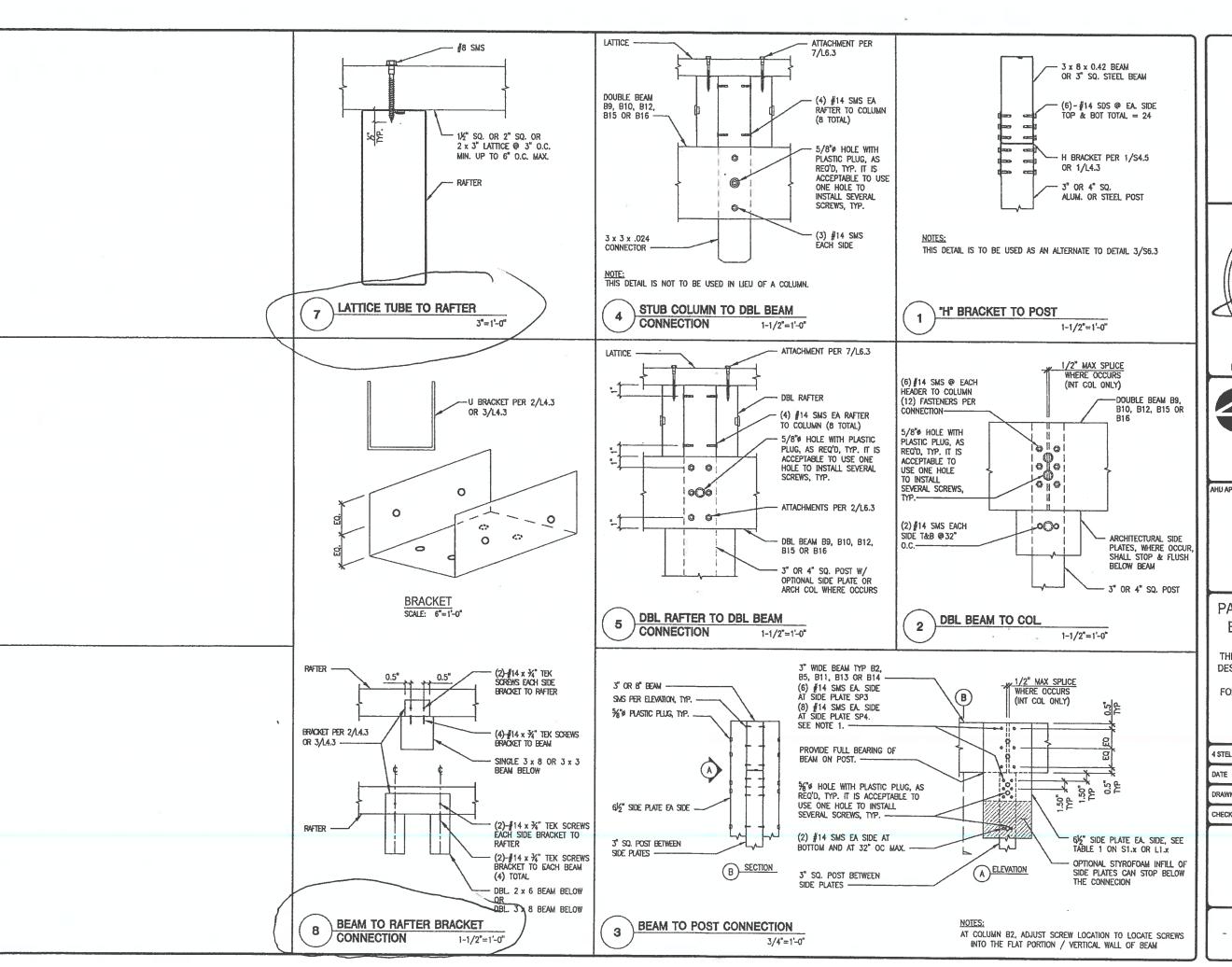
DATE 06/06/24

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LATTICE STRUCTURES: COLUMN PROFILES

42





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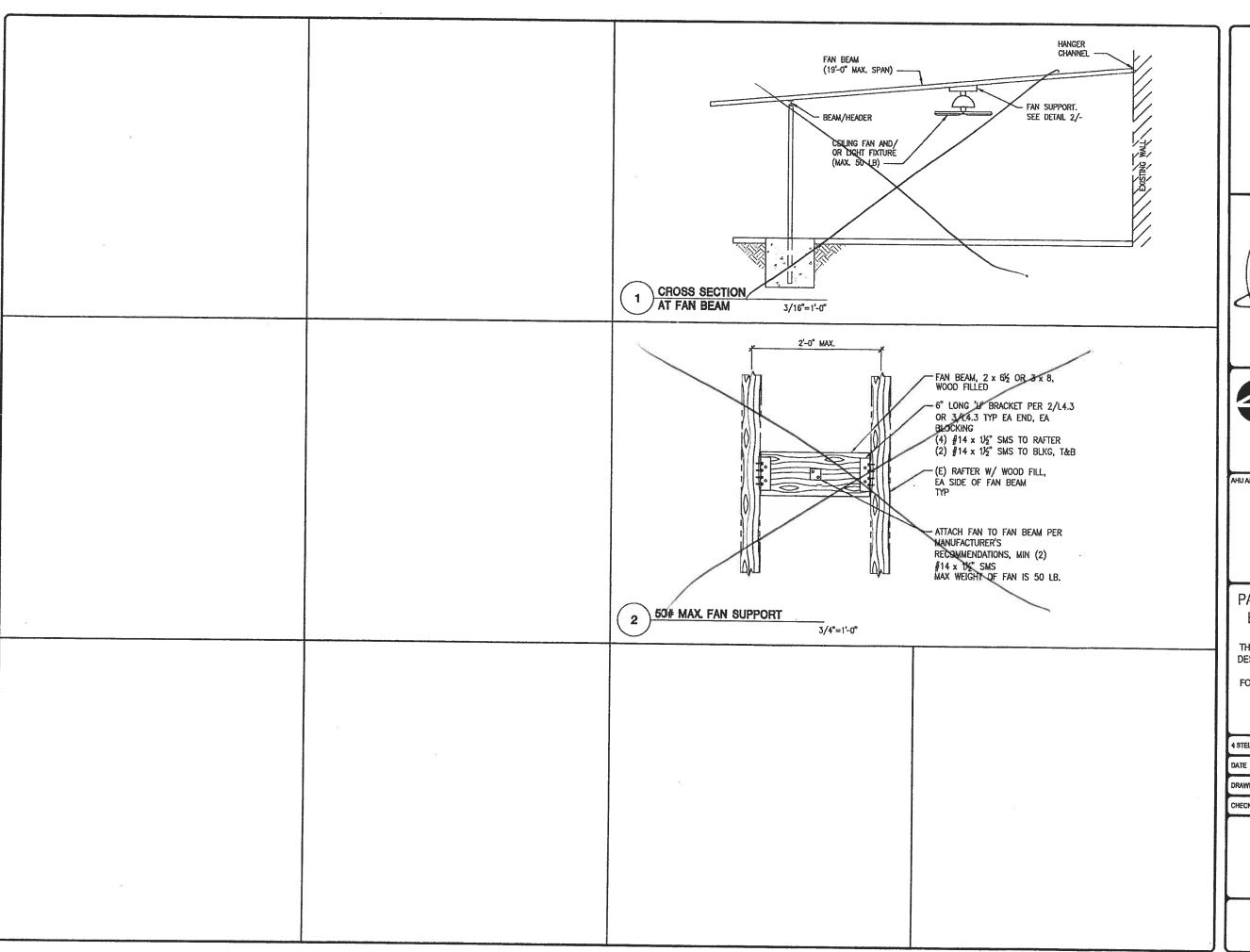
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IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB#	DA02-03
DATE	06/06/24
DRAWN BY	RWC
CHECKED	MDS

LATTICE STRUCTURES: **CONNECTION DETAILS**

L6.3





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PATIO COVER SYSTEMS BY DURALUM - V3.1.3

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IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB # DA02-03

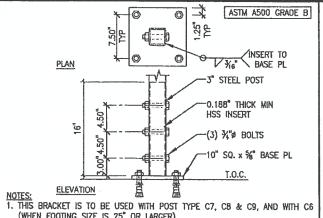
DATE 06/06/24

DRAWN BY RWC

CHECKED MDS

LATTICE STRUCTURES: FAN BEAM DETAILS

144



(WHEN FOOTING SIZE IS 25" OR LARGER).

2. SEE TABLE 2 ON S7.1 FOR ATTACHMENT TO FOOTING/SLAB.

3. INSTALL 14 x 14 x 16 HDG WELDED WASHER PLATE WHEN HOLE DIAMETER IS

MORE THAN 3/" RIGGER THAN ANCHOR BOLT DIAMETER.
4. THIS BRACKET CAN ALSO BE USED FOR POST TYPE C2, C5, OR C6 (ALL FOOTING SIZES) SEE TABLE 2 ON L7.1 AND 7/L7.1 FOR ANCHORAGE REQUIREMENTS,

STEEL POST SLEEVE FOR POSTS C7, C8, C9 3/4"=1"-0"

	ALUM ALLOY 6063-T6
2.875"	- (4)-#14 SMS OR TEK SCREWS, EA. SIDE, TYP.
2.00	- ¾"ø HOLE EA. SIDE
0.085 ^f TYP. 5.662 ^e	0.750" TYP.

- 1. BRACKET LENGTH IS 2.75"
 2. THIS BRACKET IS TO BE USED WITH POST TYPE C1, WITH OR WITHOUT SIDE PLATES PER SP3 OR SP4.
- 3. SEE TABLE 2 ON L7.1 FOR ATTACHMENT TO FOOTING/SLAB.
- 4. INSTALL 1½ x 1½ x 16 HDG WASHER PLATE AT ANCHORS FOR 130 MPH

ALUMINUM T-BRACKET FOR POST C1

3"=1'-0"

TABLE 3 - (MAX WIND SPEED: 130MPH, EXP C) MAXIMUM POST SPACING WHEN PATIO COVER IS INSTALLED ON SLAB ON GRADE

	LATTICE FRAMING				
TRIB WIDTH	Щ/GS	L (psf)	GSL (psf)		
*********	10 psf	20 psf	25 psf	30 psf	
51	13'-7*	11'-0"	10'-4"	9'-0°	
6'	11'-4"	9'-9"	9'-0"	8'-4"	
7'	9'-8"	9'-0"	8'-0"	7'-6"	
8'	8,-6,	8'-6"	7'-6"	7'-0"	
9'	7'-7"	8'-0*	7'-0"	NP	
10'	6'-9"	7'-6°	NP	NP	
11'	6'-2"	7'-0"	NP	NP	
12'	5'-8"	5'-6"	NP	NP	

NOTES:

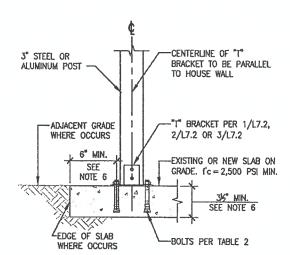
- 1 "NP" INDICATES THAT A FOOTING IS REQUIRED, AND THE PATIO COVER CAN NOT BE SUPPORTED ON A SLAB ON GRADE.
- 2 FOR LIVE OR SNOW LOADS HIGHER THAN THE ONES SHOWN ON THIS TABLE, A FOOTING IS REQUIRED AND THE PATIO COVER CANNOT BE INSTALLED ON SLAB ON GRADE.

TABLE 4 - (MAX WIND SPEED: 130MPH, EXP C) MAXIMUM TWO POST ATTACHED STRUCTURE WIDTH

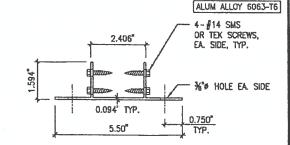
WHEN	PATIO COVE	R IS INSTALLED	ON SLAB ON G	SRADE	
	LATTICE RAFTERS				
TRIB WIDTH (ft)	LL/GSL (psf)		GSL (psf)		
(14)	10 psf	20 psf	25 psf	30 psf	
5	27'-2"	22'-0"	20'-8"	18'-0"	
6	22'-8"	19'-6"	18'-0"	16'-8"	
7	19'-4"	18'-0"	16'-0"	15'-0"	
8	17'-0"	17'-0"	15'-0"	14'-0"	
9	15'-2"	16'-0"	14'-0"	NP	
10	13'-6"	15'-0"	NP	NP	
11	12'-4"	14'-0"	NP	NP	
12	11'-4"	13'-0"	NP	NP	

T BRACKET CONNECTION

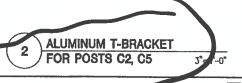
TO SLAB ON GRADE

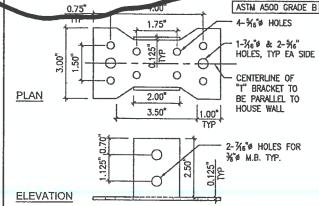


- 1. THIS DETAIL CAN BE USED WITH POST TYPES C1, C2, C5, OR C6.
- 2. TABLES 3 AND 4 IN THIS DETAIL CAN BE USED FOR FREESTANDING STRUCTURES AND/OR COMMERCIAL APPLICATIONS, BUT THE STRUCTURE CANNOT BE INSTALLED ON A SLAB ON GRADE AND REQUIRES A FOOTING PER SB.xx.x.
- 3. THIS DETAIL SHALL NOT BE USED FOR POST TYPE C10 & C11.
- 4. SEE "SLAB ON GRADE USED AS A FOUNDATION SYSTEM" NOTES ON GO.1 FOR MINIMUM OVERALL DIMENSION OF SLAB AND ACCEPTABLE CRACKING AND CONTROL/EXPANSION JOINTS CRITERIA.
- 5. WHEN THE PATIO COVER IS INSTALLED ON A SLAB ON GRADE (RESIDENTIAL APPLICATIONS ONLY), THE MAXIMUM POST SPACING IS THE LOWEST OF THE "MAX POST SPACING (SPAN)" SHOWN ON LB.XX.1 AND THE MAXIMUM POST SPACING SHOWN IN TABLE 3.
- 6. SEE NOTE 2 ON 4/L7.1 FOR ALTERNATE.
- 7. THIS DETAIL CAN ONLY BE USED IN AREAS WITH A FROST DEPTH
- 8. SEE "GENERAL NOTES SLAB ON GRADE USED AS A FOUNDATION SYSTEM" NOTES ON GO.1 FOR MORE INFORMATION.



- 1. BRACKET LENGTH IS 2.75".
- 2. THIS BRACKET IS TO BE USED WITH POST TYPE C2 OR C5, WITH OR WITHOUT SIDE PLATES PER SP3 OR SP4.
- 3. SEE TABLE 2 ON L7.1 FOR ATTACHMENT TO FOOTING/SLAB.
- 4. INSTALL 1½ x 1½ x ½ HDG WASHER PLATE AT ANCHORS FOR 130 MPH. 5. STEEL T-BRACKET PER 3/L7.2 CAN BE USED IN LIEU OF THIS BRACKET.



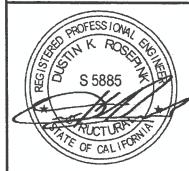


- THIS BRACKET IS TO BE USED WITH POST TYPE C6 WHEN FOOTING SIZE IS 24" OR SMALLER, WITH OR WITHOUT SIDE PLATES PER SP3 OR SP4. 2. BRACKET CAN ALSO BE USED WITH POST TYPE C2 OR C5 PER TABLE 2 ON L7.1 AND 2/L7.1
- 3. SEE TABLE 2 ON L7.1 FOR ATTACHMENT TO FOOTING/SLAB.

STEEL T-BRACKET 3 FOR POST C6 3"=1'-0"



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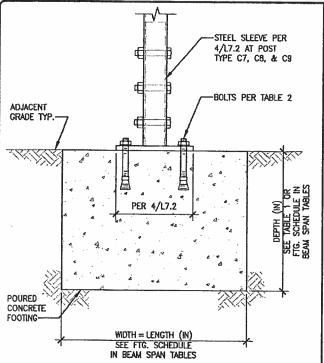
PATIO COVER SYSTEMS BY DURALUM - V3.1.3

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> IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB A 06/06/24 DRAWN BY CHECKED MDS

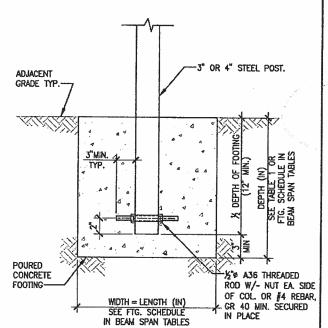
> LATTICE STRUCTURES: FOUNDATION DETAILS



NOTES:

- 1. THIS DETAIL CAN BE USED FOR STEEL POST TYPES C6, C7, C8, OR C9.
- 2. THIS DETAIL SHALL NOT BE USED FOR ALUMINUM POST TYPE C1 OR ALUMINUM POST TYPES C2 OR C5.
- 3. IT IS ACCEPTABLE TO EMBED THE STEEL POST DIRECTLY INTO THE FOOTING PER 5/L7.1 INSTEAD OF USING THE POST SLEEVE SHOWN IN THIS DETAIL. 4. THIS DETAIL CAN BE USED AT FREESTANDING OR AT ATTACHED STRUCTURES.

7)	STEEL POST SLEEVE CONNECTI	ON
')	TO CONODETE ECOTINO	1"=1"-0"



- 1. THIS DETAIL IS TO BE USED FOR POST TYPES C10 & C11.
- 2. THIS DETAIL CAN ALSO BE USED FOR STEEL POST TYPES C6, C7, C8, C9 PER TABLE 2 ON 17.1.
- 3. THIS DETAIL SHALL NOT BE USED FOR ALUMINUM POST TYPES C1. C2.
- OR C5.
 4. THIS DETAIL CAN BE USED AT FREESTANDING OR AT ATTACHED STRUCTURES.

1"=1'-0"

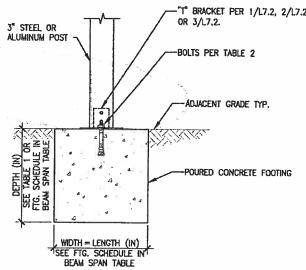
STEEL POST EMBEDDED INTO CONCRETE FOOTING



BRACKET	DETAIL	POSTTYPE	FTG (IN)	ANCHOR BOLTS (SEE NOTE 2)	SEE NOTES
ALUM T	1/L7.2	C1	SOG	(2)-3/8" dia w/ 1-7/8" embed	
T MUJA	1/17.2	C1	ALL	(2)-3/8" dia w/ 2-7/8" embed	
ALUM T	2/17.2	C2	SOG	(2)-3/8" dia w/ 1-7/8" embed	3
ALUM T	2/17.2	CZ	ALL	(2)-3/8" dia w/ 2-7/8" embed	3
ALUM T	2/17.2	C5	SOG	(2)-3/8" dia w/ 1-7/8" embed	3
ALUM T	2/17.2	C5	ALL	(2)-3/8" dia w/ 2-7/8" embed	3
STEELT	3/L7.2	C6	SOG	(2)-3/8" dia w/ 1-7/8" embed	
STEELT	3/L7.2	C6	≤ 22×	(2)-3/8" dia w/ 2-7/8" embed	1,3,4
STEELT	3/L7.2	C6	≤24"	(2)-1/2" dia w/ 3-1/4" embed	1,3,4
STEEL INS	4/L7.2	C6	≤30"	(4)-1/2" dia w/ 3-1/4" embed	1,4
STEELINS	4/L7.2	C6	≤34"	(4)-5/8" dia w/ 4" embed	1,4
STEEL INS	4/17.2	C6	≥35*	(4)-3/4" dia w/ 4-3/4" embed	1,4
STEELINS	4/17.2	C7, C8, C9	ALL	(4)-3/4" dia w/ 4-3/4" embed	1,5
EMBED	5/17.1	C10,C11	ALL	N/A	

- 1 "FTG (IN)" IS THE FOOTING DIMENSION REFERENCED IN BEAM SPAN TABLES ON SHEETS L8.xx.x
- 2 ANCHOR BOLTS SHALL BE SIMPSON STRONG BOLT 2, STAINLESS STEEL (ICC-ESR 3037). HILTI KB-TZ SS CAN ALSO BE USED WITH A 4" SLAB, AND A REDUCED EDGE DISTANCE OF 3 1/2" (ICC-ESR-1917).
- 3 IT IS ACCEPTABLE TO USE THE STEEL INSERT PER 4/L7.2 INSTEAD OF THE ALUMINUM T PER 2/L7.2 FOR POST TYPES C2 AND CSOR INSTEAD OF THE STEEL T PER 3/L7.2 FOR POST TYPE C6. BOLTS CAN REMAIN AS SPECIFIED IN THIS TABLE, BUT (4) BOLTS SHALL BE USED. SEE NOTE 6.
- 4 IT IS ACCEPTABLE TO USE THE EMBEDDED POST DETAIL 5/L7.1 INSTEAD OF THE STEEL INSERT OR STEELT FOR STEEL POSTS C6.
- 5 IT IS ACCEPTABLE TO USE THE EMBEDDED POST DETAIL 5/17.1 INSTEAD OF THE STEEL INSERT FOR STEEL POSTS C7, C8 AND C9.

ANCHORAGE OF POSTS TO SLAB OR FOOTING



- 1. THIS DETAIL SHALL NOT BE USED FOR FREESTANDING STRUCTURES.
- 2. THIS DETAIL SHALL NOT BE USED FOR POST TYPE C7, C8, C9, C10,

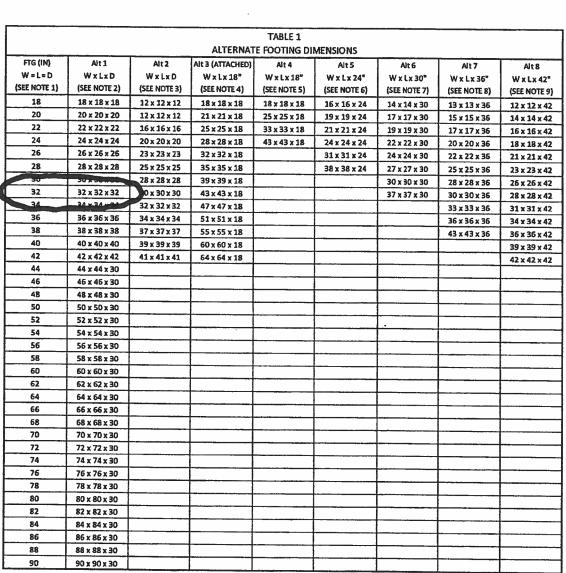
"T" BRACKET CONNECTION TO CONCRETE FOOTING 1"=1'-0"

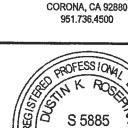
2/L7.2,	
ing	

NOTES:

FOUNDATION TABLES

- 1 "FTG (IN)" IS THE FOOTING DIMENSION REFERENCED IN BEAM SPAN TABLES ON SHEETS S8.xx.x OR L8.xx.x.
- 2 "ALT 1" IS THE FOOTING DIMENSION BASED ON THE "FTG (IN)" DIMENSION. NOTE THAT W=D=L.
- 3 "ALT 2" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN A 3.5" MINITHICK SLAB IS PRESENT ABOVE THE FOOTING. NOTE THAT W=D=L
- 4 "ALT 3" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN THE FOOTING IS KEPT TO AN 18" DEPTH FOR UPLIFT DESIGN ONLY. THIS VALUE IS TO BE USED ONLY AT ATTACHED PATIO STRUCTURES. NOTE THAT W=LAND D=18".
- 5 "ALT 4" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN THE FOOTING IS KEPT TO AN 18" DEPTH. NOTE THAT W=L AND D=18".
- 6 "ALT 5" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN THE FOOTING IS KEPT TO AN 24" DEPTH. NOTE THAT W=L AND D=24".
- 7 "ALT 6" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN THE FOOTING IS KEPT TO AN 30" DEPTH, NOTE THAT WEL AND DE30".
- 8 "ALT 7" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN THE FOOTING IS KEPT TO AN 36" DEPTH. NOTE THAT W=L AND D=36". 9 - "ALT 8" IS THE ALTERNATE FOOTING DIMENSION REQUIRED WHEN THE FOOTING IS KEPT TO AN 42" DEPTH. NOTE THAT W=L AND D=42".





OF CALIFC

DURALUM

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PATIO COVER SYSTEMS BY DURALUM - V3.1.3

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4 STEL JOB# DA02-03 DATE 06/06/24 DRAWN BY RWC CHECKED MDS

> LATTICE STRUCTURES: **FOUNDATION DETAILS**

ATTACHED & FREESTANDING LATTICE COVERS - 10 PSF SNOW LOAD OR LIVE LOAD - 110 MPH - EXP. B & C

		(B5)	12 GA 8	SQ. ALUN	HANN		(B10)				x6.5 x 0.032			B11 ATTACHED			3 x 8 x 0.042				DBL	2 x 6.5 x 0	.042		B12)		DBL	3 x 8 x 0.	042		B13			8 x 0.042 A STL IN		
			CHED	FREES	IANL	ING		ACHED		FREESTA	ANDING	1	ATTA	CHEC)	FREES	TAND	ING	ATT	CHE)	FREEST	ANDIN	IG	ATTA	CHED		FREES1	TANDI	ING	ATT	ACHED	5	FREES	TAND	NG
TRIB WIDTH		SPACING (SPAN)		(SPAN)	<u> </u>	TYPE	SPACING (SPAN)	(IN)	MIN POST TYPE	(SPAN)	(IN) PC	IIN OST PE	MAX POST SPACING (SPAN)	(114)	MIN POST TYPE	MAX POST SPACING (SPAN)	FTG (IN)	MIN POST TYPE	MAX POST SPACING (SPAN)	FTG (IN)	MIN POST TYPE	MAX POST SPACING (SPAN)	FIG P	MIN POST YPE	MAX POST SPACING (SPAN)		MIN POST TYPE	MAX POST SPACING (SPAN)		MIN POST TYPE	MAX POST SPACING (SPAN)	FTG (IN)		MAX POST SPACING (SPAN)	FTG (IN)	MIN POST TYPE
5'	110 B	16'-9" 16'-9"	15 C1	14'-7"	31	C7 C8	14'-10" 14'-10"	15	Cf	14'-10"	28 30	7	15'-4" 15'-4"	15 17	C1	15'-4" 15'-1"	28 30	C7	18'-0" 18'-0"	15 18	C1	18'-0" 17'-6"	29 31	C7	21'-8" 21'-8"	16 19	C1	21'-8" 21'-2"	31	C7	20'-9"	16	C1	20'-9"	31	C7
6'	110 B 110 C	15'-3" 15'-3"	16 C1	13'-3" 13'-3"	28 30	C7 C8	13'-7" 13'-7"	15 17	C1	13'-7"	28	77	14'-1" 14'-1"	15 17	C1	14'-1" 13'-9"	28 29	C7	16'-4" 16'-4"	16 18	C1	16'-4" 16'-0"	20	C7	19'-9"	17	C2	19'-9" 19'-3"	33 30 32	C8 C7	20'-9" 19'-0" 19'-0"	18 17	C1	20'-2" 19'-0"	33	C8 C7
7'	110 B 110 C	14'-2" 14'-2"	18 C1	12'-4" 12'-4"	28 30	C7	12'-7" 12'-7"	15 17	C1	12'-7" 12'-3"	28 29	7 -	13'-1" 13'-1"	15 17	C1	13'-1" 12'-9"	28 29	C7	15'-2" 15'-2"	16	C1	15'-2"	20	C7	18'-4"	17 20	C2	18'-4"	30 31	C7	17'-7"	17	cz	18'-6" 17'-7"	32 30	C7
8,	110 B 110 C	13'-3" 13'-3"	16 19 C1	11'-7"	29 29	C7	11'-9" 11'-9"	16 18	C1	11'-9" 11'-6"	28 28	77	12'-3" 12'-3"	16 18	C1	12'-3" 12'-0"	28 28	C7	14'-3" 14'-3"	17	C1	14'-3" 13'-10"	20	C7	17'-2" 17'-2"	18	C2	17'-2" 16'-9"	31	C7	17'-7" 16'-6"	18	C2	17'-1" 16'-6"	31 31	C7
9,	110 B 110 C	12'-7" 12'-7"	17 19 C2	11'-0"	29 29	C7	11'-2" 11'-2"	16 18	C1	11'-2" 10'-10"	29 28	77	11'-7" 11'-7"	16 18	C1	11'-7" 11'-3"	29	C7	13'-6" 13'-6"	17	C2	13'-6" 13'-1"	30	C7	16'-3" 16'-3"	18	C5	16'-3" 15'-9"	31	C7	16'-6" 15'-6" 15'-6"	20 18 20	C2	16'-1" 15'-6" 15'-2"	31 31 31	C7
10'	110 B	12'-0" 12'-0"	17 C2	10'-4"	30	C7	10'-7" 10'-7"	16 19	C1		29 29	7 -	11'-0" 11'-0"	16 19	C1	11'-0" 10'-8"	29 29	C7	12'-9" 12'-9"	17 20	C2	12'-9"	30	C7	15'-4" 15'-4"	18	C5	15'-4"	32 32	C7	14'-9"	18	C5	14'-9"	32	C7
11'	110 B	11'-4" 11'-4"	17 C2	9'-10" 9'-10"	30	C8	10'-1" 10'-1"	17 19	C1		29 29	77	10'-6" 10'-6"	17 19	C1	10'-6" 10'-1"	29 29	C7	12'-2" 12'-2"	18	C2	12'-2" 11'-10"	31	C7	14'-8"	19	C5	14'-8" 14'-4"	32 32	C7	14'-1"	19	C5	14'-4"	32 32 32	C7
12'	110 B 110 C	10'-10"	18 C2	9'-6" 9'-6"	30 30	C8	9'-8"	17 19	C2	9'-8" 9'-6"	29 29	7	9'-8" 9'-8"	17 19	C2	9'-8" 9'-2"	29 29	C7	11'-8" 11'-8"	18 20	C2	11'-8" 11'-4"	31	C7	14'-1"	19	C5	14'-1"	32 32	C7	13'-6"	19	C5	13'-8" 13'-6" 13'-2"	32 32 32	C7

	(B14)	ACHE	12 G	0.042 BE A STL IN	SERI		B15		BL 14	3 x 8 x 0.042 W/ 4 GA STL INSERT			(B16)	D	BL 12	3 x 8 x 0.042 W/ 2 GA STL INSERT			(B18)			8 x 0.042 STL U-IN		Т	B19	DB		8 x 0.042 GA STL U		ERT
		1	AH	CHEL	J	FREES	IANU	ING	All	ACHE)	FREES	TAND	ING	ATTA	CHE)	FREES	TAND	NG	ATTA	CHE)	FREES	TAND	ING	ATT/	ACHE	2	FREES	TAND	NG
TRI	н Ехі	P	SPACING (SPAN)		MIN POST TYPE	SPACING (SPAN)	Ľ	TYPE	MAX POST SPACING (SPAN)	(IN)	MIN POST TYPE	SPACING (SPAN)	FTG (IN)	MIN POST TYPE	MAX POST SPACING (SPAN)		MIN POST TYPE		FTG (IN)	MIN POST TYPE		FTG (IN)	MIN POST TYPE	MAX POST SPACING (SPAN)	FTG (IN)	MIN POST TYPE	MAX POST SPACING (SPAN)			CDA ONIO		MIN POST TYPE
5	110		22'-8"	17	C1	22'-8"	31	C7	29'-2"	18	C2	29'-2"	33	C8	32'-0"	19	C5	32'-0"	34	C8	25'-10"	17	C6	25'-10"	42	C8	32'-6"	18	C6	32'-6"	49	C8
	110		22'-8"	19		22'-1"	33	C8	29'-2"	21		28'-6"	36	C9	32'-0"	21	0.5	31'-2"	36	C11	22'-11°	19	C6	22'-11"	41	C11	28'-11"	21	C6	28'-11°		C11
6	110		20'-8"	17	C2	20'-8"	31	C7	26'-8™	19	C5	26'-8"	33	C8	29'-2"	19	C5	29'-2"	33	C8	24'-3"	17	C6	24'-3"	48	C8	30'-7"	19	C6	30'-7°	51	C8
	110	_	20'-8"	20	<u> </u>	20'-2"	32		26'-8"	21		26'-0"	35	C9	29'-2"	22		28'-6"	36	C9	21'-7'	20	C6	21'-7"	42	C9	27'-2"	21	C6	27'-2"	49	C9
7	110		19'-2" 19'-2"	18	C2	19'-2"	31	C7	24'-8"	19	C5	24'-8"	33	C8	27'-1"	20	C5	27'-1"	33	C8	23'-1"	18	C6	23'-1"	49	C8	29'-1"	19	C8	29'-1°	53	C8
-	110		18'-0"	20	<u> </u>	19'-2"	32		24'-8"	22		24'-1"	34		27'-1"	22		26'-4"	35	C9	20'-6"	21	C6	20'-6"	47	C9	25'-10°	22	C6	25'-10"	51	C9
8'	110		18'-0"	18	C2	18'-0"	31	_C7	23'-2"	20	C5	23'-2"	33	C8	25'-3"	20	C5	25'-3"	34	C8	22'-1"	18	C6	22'-1"	51	СВ	27'-10"	20	C6	27'-10"	54	
	110		17'-0"			17'-0"	22	5	23'-2"			22'-7"	33		25'-3"	23		24'-8"	34		19'-7"	21	C6	19'-7"	49		24'-8"	23	C6	24'-8"	52	C8
9	110		17'-0"	18	C5	17'-0"	32	C7	21'-10"	20	C5	21'-10"	34	C8	23'-10"	21	C5	23'-10"	35	C9	21'-2"	19	C6	21'-2"	52	C9	26'-9"	20	C6	26'-9°	56	C9
	110		16'-1"	19		17-0	31		20'-9"	23		21'-3"	34		23'-10"	23		23'-3"	34	C8	18'-10"	22	C6	18'-10"	50	C8	23'-9"	23	C6	23'-9"	54	C8
10	110	_	16'-1"	21	C5	16'-1"	32	C7	20-9	23	C5	20'-9"	34	C8	22'-8"	21	C5	22'-8"	35	C9	20'-6"	19	C6	20'-6"	53	C9	25'-10°	21	C6	25'-10"	57	CO
-	110		15'-4"	19	-	15'-4"	32		19'-9"	21					22'-8"	24		22'-1"	35		18'-2"	22	C6	18'-2"	51		22'-11"	24	C6	22'-11°	55	Ca
11	110		15'-4"	22	C5	15'-4"	32	C7	19'-9"	24	C5	19'-9" 19'-3"	35 34	C9	21'-8"	21	C5	21'-8"	36	C9	19'-10"	20	C6	19'-10"	54	C9	25'-0"	21	C6	25'-0°	58	C9
	110		14'-9"	19	 	14'-9"	32		19'-0"	21	-	19'-0"	35		21'-8"			21'-1"	35	-	17'-7"	23	C7	17'-7"	52		22'-2"	24	C7	22'-2"	56	O9
12	110		14'-9"	22	C5	14'-9"	33	C8	19-0"	24	C5	18'-6"	35	C9	20'-8"	22 25	C5	20'-8"	36	C11	19'-3"	20	C6	19'-3"	55	C11	24'-3"	22	СВ	24'-3"		C11
	1 114	-1			1					1 6-7		10-0			20-0	23		20-2	36	C10	17'-1"	23	C7	17'-1"	53	C10	21'-7"	25	C7	21'-7"	57	C10

1 - WHEN THE PATTO COVER IS INSTALLED ON A SLAB ON GRADE (RESIDENTIAL APPLICATIONS ONLY), THE MAXMUM POST SPACING IS THE LOWEST OF THE "MAX POST SPACING (SPAN)" SHOWN ABOVE AND THE MAXIMUM POST SPACINGS SHOWN ON DETAIL 2 - IT IS ACCEPTABLE TO

SUBTITUTE COLUMNS W/ HIGHER NUMBERS WI THOSE SPECIFIED IN THE TABLES SHOWN.



2485 RAILROAD ST. CORONA, CA 92880 951.736.4500



DATE SIGNED: June 6, 2024



26030 ACERO, SUITE 200 MISSION VIEJO, CA 92691 949.305.1150 | FAX 949.305.1420

AHU APPROVAL

PATIO COVER SYSTEMS BY DURALUM - V3.1.3

THESE DRAWINGS REPRESENT THE DESIGNS EVALUATED BY IAPMO UES AND REFERENCED IN THE **FOLLOWING EVALUATION REPORT:**

> IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB# DA02-03 DATE 06/06/24 DRAWN BY RWC CHECKED

> LATTICE STRUCTURES: BEAM SPANS & **FOUNDATION SIZES** 10 PSF LL/SL, 110 MPH

MDS

L8.10.1

ATTACHED & FREESTANDING LATTICE COVERS - 10 PSF SNOW LOAD OR LIVE LOAD - 120 MPH - EXP. B & C

		B5 3" SQ. ALUM W/ 12 GA STL"U" CHANI ATTACHED FREESTANE						(B10)	<i></i>					B11		3 x 8 x 0.042			B9		DBL:	2 x 6.5 x 0	.042	B12		DBL	.3x8x0	.042	(B13		3 x 8 x 4 GA S			
			ACHED	<u>'</u>		TANL	DING	ATT	ACHE)	FREES1	ANDING	3	ATTACI	HED	FREES	TAND	NG	ATT/	CHED		FREES"	ANDING	AT	TACHED	,	FREES	TANDING	,	ATTA	CHED		REEST	ANDIN	G
TRIB WIDTH		MAX POST SPACING (SPAN)	(IN.)	MIN. POST TYPE	SPACING (SPAN)	FTG. (IN.)	MIN. POST TYPE	MAX POST SPACING (SPAN)	FTG. (IN.)	MIN. POST TYPE	MAX POST SPACING (SPAN)	FTG. (IN.)	DST SF	MAX POST FT PACING (III	G. POST	MAX POST SPACING (SPAN)	FTG. (IN.)	MIN. POST TYPE	MAX POST SPACING (SPAN)	11-172 1	MIN. POST TYPE	MAX POST SPACING (SPAN)	FTG. (IN.) POS TYPI	TPOQ	FTG.	MIN. POST TYPE	MAX POST SPACING (SPAN)	FTG. PC	OST SE	MAX POST PACING (SPAN)	TG. PC	DST SP	AX OST F CING PAN)	FTG. (IN.)	MIN. POST TYPE
5	120 B 120 C	16'-9" 16'-4"	16 18	C1	14'-7"	31 33	C8 C10	14'-10"	15 18	C1	14'-10" 14'-1"	30 C			5 8 C1	15'-4"	30 31	C7	18'-0" 17'-8"	16 19	C1	18'-0' 17'-0"	31 C7	21'-8"	17	C1	21'-8" 20'-7"	33 34			17 C				C7
6'	120 B	15'-3" 15'-0"	16 19	C1	13'-3" 13'-3"	30 32	C8 C9	13'-7" 13'-4"	16	C1		29 31	77	14'-1" 1	6 8 C1	14'-1"	29	C7	16'-4" 16'-2"	17	C1	16'-4" 15'-7"	30 C7	19'-9"	18	C2	19'-9"	32 (7	19'-0"	18 C	21 1	00.	32	C8 C7
7'	120 B	14'-2" 13'-10"	17 19	C1	12'-4" 12'-4"	29 31	C7	12-7" 12-4"	16	C1	12'-7"	20	77	13'-1" 1	6 9 C1	13'-1" 12'-4"	29	C7	15'-2"	17 20	C1.	15'-2"	30 C7	19'-7" 18'-4"	18	C2	18'-9" 18'-4"	31 (27	17'-7"	18	2 1	'-7"	31	C8
8'	120 B 120 C	13'-3" 13'-0"	17	C1	11'-7"	29 31	C7 C8	11'-9"	17	C1	11'-9"	28	77	12'-3" 1	7 9 C1	12'-3"	28	C7	15'-0" 14'-3"	18	C1	14'-4" 14'-3"	30 C7	18'-1" 17'-2"	21 19	C2	17'-4" 17'-2"	31	,, L	16'-6"	18	1		33	-
9'	120 B 120 C	12'-7" 12'-3"	18	C2	11'-0"	29	C7	11'-2"	17	C1	11'-2"	29	7	11'-7" 1	7 04	11'-7"	30 29	C7	14'-1" 13'-6"	20 18	C2 C2	13'-6" 13'-6"	29 C7	17'-0" 16'-3"	22 19	C5	16'-3" 16'-3"	32		16'-2" 15'-6"	21	1		32 31	
10°	120 B	12'-0"	18	C2	11'-0"	30	C8 C7	11'-0" 10'-7"	17	C1	10'-7"	29 29	7	11'-4" 2 11'-0" 1	7 64	11'-0"	29 29	C7	13'-3" 12'-9"	21 18	C2	12'-9" 12'-9"	30	16'-0" 15'-4"	22 19		15'-4" 15'-4"	32		15'-3"	22	1,	1-8"	32	U/ —
11'	120 C 120 B	11'-8" 11'-4"	21 18	C2	10'-4" 9'-10"	30 30	C8 C8	10'-6" 10'-1"	20 17	C1	10'-1"	29 .		10'-9" 2 10'-6" 1		10'-4" 10'-6"	29		12'-7" 12'-2"	21 19·		12'-1" 12'-2"	30 C7	15'-2" 14'-8"	22	C5	14'-7" 14'-8"	31	"		22	²⁰ 1	1-0"	31	C7
17	120 C	11'-2" 10'-10"	21 18		9'-10" 9'-5"	30 30		10'-0" 9'-8"	20		9'-7" 9'-8"	29		10'-3" 2 9'-8" 1	0 01	9'-6"	29	C7	12'-0"	21	C2 -	11'-7"	30	14'-6"	23	C5	14'-0"	32	" 1	13'-10"	23	²⁰ 1:	3'-4"	32 31	C7
12'	120 C	10'-8"	21	C2	9'-6"	31	C8	9'-7"	21	C2	9'-2"	30		9'-4" 2		8'-9"	30	C7	11'-8" 11'-6"	19 22	C2 -	11'-8"	31 C7	14'-1"	20	C5	14'-1" 13'-4"				20 C		3'-6"	32	C7

		B14		12 G	0.042 BE A STL IN:	SERT	•	B15)	DB		3 x 8 x 0.042 W/ GA STL INSERT			B16			2 3 x 8 x 0.042 W/ 2 GA STL INSERT			B18			8 x 0.042		 RT	(B19)	DB		8 x 0.042 GA STL U		ERT
		ATT/	CHE)	FREES	TAND	ING	ATT/	ACHED		FREES	TAND	ING	ATTA	ACHE)	FREES	TAND	ING	ATTA	CHE)	FREES	TAND	ING	ATTA	CHE)	FREES	TANDI	NG
TRIB WIDTH		MAX POST SPACING (SPAN)			SPACING (SPAN)			(SPAN)	IFTG L	AIN. OST YPE		FTG. (IN.)	MIN. POST TYPE	MAX POST SPACING (SPAN)	FTG. (IN.)	MIN. POST TYPE	MAX POST SPACING (SPAN)	FTG. (IN.)	MIN. POST TYPE	MAX POST SPACING (SPAN)		MIN POST TYPE	MAX POST SPACING (SPAN)	FTG (IN)	MIN POST TYPE	CDACINO			MAX POST SPACING (SPAN)	FIG	MIN POST TYPE
5'	120 B	22'-8"	18	C1	22'-8"	33	C8	29'-2"	19	C2	29'-2"	35	C9	32'-0"	20	C5	32'-0"	36	C11	24'-8"	18	C6	24'-8"	42	C11	31'-2"	19	C8	31-2"	49	
	120 C	22'-4"	20	CZ	21'-6"	35	C9	28'-9"	22		27'-8"	37	C11	32'-0"	23	_ 00	30'-3"	38	017	21'-7"	20	C6	21'-7"	40	1 617	27'-3°	22	C6	27'-3°	46	C11
6'	120 B 120 C	20'-8"	18	C2	20"-8"	32	C7	26'-8"	20	C5	26'-8"	35	C9	29'-2"	20	C5	29'-2"	35	C9	23'-3"	18	C6	23'-3"	47	C9	29'-4"	20	C6	29'-4°	50	C9
	120 B	19'-2"	19		19'-8" 19'-2"	34	C8 C7	26'-3"	23		25'-3"	36	C11	29'-2"	23		27'-8"	37	C11	20'-4"	21	C6	20'-4"	41	C11	25'-8"	23	C6	25'-8°	48	C11
7'	120 C	18'-10"	21	C2	18'-2"	33	C8	24'-8" 24'-4"	23	C5	24'-8" 23'-6"	34	C8 C9	27'-1" 27'-1"	21	C5	27'-1"	35	C9	22'-1"	19	C6	22-1*	48	C9	27'-10°	20	C6	27'-10"	52	C9
	120 B	18'-0"	19		18'-0"	31	C7	23'-2"	21	_	23'-2"	33	C8	25'-3"	24		25'-8"	37	C11	19'-4"	22	C6	19'-4"	46	C11	24'-4"	23	C6	24'-4"	50	C11
8	120 C	17'-8"	22	C2	17'-1"	33	C8	22'-9"	24	C5	22'-0"	35	C9	25'-3"	25	C5	25'-3"	34	C8	21'-1° 18'-6"	19	C6	21'-1"	50	C8	26'-7"	21	C6	26'-7"	54	C8
0'	120 B	17'-0"	19	C5	17'-0"	32		21'-10"	21		21'-10"	34	C8	23'-10"	22		23'-10"	35		20-4"	20	C6 C6	18'-6" 20'-4"	48	C11	23'-3"	24	C6	23'-3"		C11
3	120 C	16'-8"	22	L	16'-1"	32	C7	21'-6"	24	C5	20'-8"	34	C9	23'-10"	25	C5	22'-0"	35	C9	17'-9"	23	C6	17'-9"	51 49	C9	25'-7" 22'-5"	21	C6 C7	25'-7" 22'-5"	55 53	C9
10'	120 B	16'-1"	20	C5	16'-1"	32	C7	20'-9"	21	C5	20'-9"	34	20	22'-8"	22		22'-8"	35		19'-7"	20	C6	19'-7"	52		24'-8"	22	C6	24'-8°	56	
	120 C	15'-10"	23		15'-3"	32		20-4"	25	C3	19'-8"	34	C8	22'-8"	26	C5	22'-1"	35	C9	17'2"	24	C7	17'-2"	50	C9	21'-7"	25	C7	21'-7"	54	C9
11'	120 B	15'-4"	20	C5	15'-4"	32	C7	19'-9"	22	C5	19'-9"	35	C9	21'-8"	22	C5	21'-8"	36	C9	19'-0"	21	C6	19'-0"	53		23'-11"	22	C6	23-11"	58	
	120 C	15'-2"	23		14'-7"	32	C8	19'-6"	25		18'-9"	34		21'-8"	26	-00	21'-1"	35	ا قا ا	16'-7"	24	C7	16'-7"	51	C9	20'-11"	26	C7	20'-11°	55	C9
12'	120 B	14'-9"	20	C5	14'-9"	33	C8	19'-0"	22	C5	19'-0"	35	C9	20'-8"	23	C5	20'-8"	36	C11	18'-5"	21	C6	18'-5"	54	C11	23'-3"	23	C7	23'-3"		C11
	120 C	14'-6"	23		14'-0"	32		18'-8"	26		18'-0"	34		20'-8"	26		20'-2"	35	C9	16'-2"	24	C7	16'-2"	52	C9	20'-4°	26	C7	20'-4"	56	C9



NOTES:

1 - WHEN THE PATIO COVER IS INSTALLED ON A SLAB ON GRADE (RESIDENTIAL APPLICATIONS ONLY), THE MAXIMUM POST SPACING IS THE LOWEST OF THE "MAX POST SPACING (SPAN)" SHOWN ABOVE AND THE MAXIMUM POST SPACINGS SHOWN ON DETAIL B/L7.1

2 - IT IS ACCEPTABLESTO SUBTITUTE COLUMNS BY HIGHER NUMBERS WY THOSE SPECIFIED

IN THE TABLES SHOWN.



2485 RAILROAD ST, CORONA, CA 92880 951.736.4500



DATE SIGNED: June 6, 2024



26030 ACERO, SUITE 200 MISSION VIEJO, CA 92691 949.305.1150 | FAX 949.305.1420

AHU APPROVAL



PATIO COVER SYSTEMS BY DURALUM - V3.1.3

THESE DRAWINGS REPRESENT THE DESIGNS EVALUATED BY IAPMO UES AND REFERENCED IN THE FOLLOWING EVALUATION REPORT:

IAPMO-UES ER-195 VALID THROUGH JUNE 30, 2025

4 STEL JOB # DA072-03

DATE 06/06/24

DRAWN BY RWC

CHECKED MDS

LATTICE STRUCTURES:
BEAM SPANS &
FOUNDATION SIZES
10 PSF LL/SL, 120 MPH

L8.10.2