City of Costa Mesa Memorandum

TO:

SCOTT DRAPKIN, ASSISTANT DEVELOPMENT SERVICES DIRECTOR

FROM:

JEFFREY RIMANDO, ASSISTANT PLANNER

DATE:

MARCH 4, 2024

SUBJECT:

MINOR MODIFICATION PMND-23-0007 FOR A REDUCED SIDE YARD

SETBACK TO ACCOMODATE A PROPOSED OPEN SOLID PATIO COVER AT

2994 MILBRO STREET

BACKGROUND

The property at 2994 Milbro Street is zoned R1 (Single-Family Residential District) and is developed with a detached single-family residence and an attached garage. The property is located on the eastside of Milbro Street, between Baker Street and Post Road. The existing home has an area of 1,130 square feet and an attached approximate 400 square-foot garage. The residence was constructed in 1956 under Building Permit Number 3041. The residence also has an attached lattice patio cover in rear that was constructed in 2007 under permit number B07-00099. The home also has an attached unpermitted patio cover located on the side (north) of the residence that currently encroaches into the required side setback area. The side patio cover is proposed to be rebuilt in its existing location and would therefore continue to encroach into the required side-yard setback area. The proposed encroachment requires approval of a minor modification application to remain in the same location.

DESCRIPTION

The applicant has applied for a minor modification to allow a proposed patio cover to encroach into the required five-foot side-yard setback by one-foot. The patio cover is proposed to be 4' - 10" deep by 10'- 4" wide and have a maximum height of eight feet. The patio is proposed to be located near the back northeast corner of the house. With the exception of the proposed side setback encroachment, the proposed patio cover and site development comply with all development standards of the Costa Mesa Municipal Code (CMMC), including such standards as height and open space.

ANALYSIS

CMMC Section 13-28(j)(1) allows for minor deviations from certain code requirements, including a 20-percent decrease in the required side yard setback subject to the review and approval of the Director of Economic and Development Services. The applicant's request for a one-foot

reduction (i.e. 20 percent) is consistent with that authorized by code. Table 1 below summarizes the proposed minor modification request:

Table 1 – Minor Modification Request

Deviation Type	Existing Condition	CMMC Requirement	Maximum Deviation Permitted	Proposed Minor Modification
Reduction in the Side Yard Setback	House is located 9' – 10" feet from north side property line	5 feet Between side property line and support post(s)	20 percent (1 foot encroachment)	20 percent or 4' – 0" from property line (1 foot encroachment)

Pursuant to CMMC Table 13-32, a roof eave overhang may project a maximum of 2' - 6'' into the required side setback area allowing a typical patio cover roof eave overhang to be as close as 2'- 6'' to the side property line. The proposed patio cover roof eave overhang design complies with the required 2' - 6'' setback.

The new proposed patio cover will be constructed within a similar footprint as the existing unpermitted patio cover that will be removed. Furthermore, the existing unpermitted patio cover has, to this date, not been materially detrimental to the surrounding community. While it will be visible from the side and rear yards of the adjacent neighboring property, it is otherwise obscured from street view and other nearby properties because of its location on the site, distance from the street, and existing mature surrounding landscape.

A review of City records has not identified any filed complaints for the existing patio structure to be replaced. Although the support posts of the proposed patio cover will encroach one-foot into the side setback area, the proposed four-foot unobstructed width would allow for adequate fire and police access, and would meet building safety requirements.

Minor Modification Findings

Per CMMC 13-29(g)(6), two findings must be made for the Director of Economic and Development Services to approve a minor modification. These findings and facts in support of the findings are provided below:

Finding I: The improvement will not be materially detrimental to the health, safety and general welfare of persons residing or working within the immediate vicinity of the project or to property and improvements within the neighborhood.

Facts in Support of Finding:

a) The proposed patio cover will not be materially detrimental to the health, safety and general welfare of persons residing or working within the immediate vicinity of the property in that the proposed patio cover will be constructed within a similar footprint of an existing unpermitted patio cover has, to this date, not been materially detrimental to the surrounding community. Although the proposed patio cover will encroach one-foot into the side setback area, the patio cover will comply with the maximum roof projection requirements under CMMC Table 13-32, and would allow for adequate emergency response access, and would meet building safety requirements.

Finding II: The improvement is compatible and enhances the architecture and design of the existing and anticipated development in the vicinity. This includes the site planning, land coverage, landscaping, appearance, scale of structures, open space and any other applicable features relative to a compatible and attractive development.

Facts in Support of Finding:

a) The proposed patio cover will be painted white and positioned at the back northeast corner of the house. While it will be visible to residents of the subject property and from the side and rear yards of the adjacent neighboring property, it is otherwise obscured from street view and other nearby properties because of its location on the site, distance from the street, and existing landscaping. The material and color of the patio cover is typical of patio covers locate in the City, and its white paint color is complementary to the current grey paint color of the house. The patio cover will tuck under the home's existing eave line and will appear to be a natural extension from the side of the house. Therefore, the improvement is compatible and enhances the design of the existing residence.

The proposed patio cover will be designed with rafter tail ends and consist of aluminum material with an appearance to reflect the rich look of real wood. All development standards are met except for the requested side setback encroachment. As proposed, the patio cover would be consistent with development in the surrounding neighborhood and would not negatively impact the safety of the surrounding neighborhood.

RECOMMENDATION

Approve the minor modification.

ATTACHMENTS

1. PLANS

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THE MINOR MODIFICATION REQUES FOLLOWING FINDINGS:	ST IS APPROVED / DENIED BASED ON	THE
FULLOWING FINDINGS:		

The improvement will not be / will be materially detrimental to the health, safety, and general welfare of persons residing or working within the immediate vicinity of the project or to property and improvements within the neighborhood.
The improvement is / is not compatible and enhances the architecture and design of the existing and anticipated development in the vicinity. This includes the site planning, land coverage, landscaping, appearance, scale of structures, open space and any other applicable features relative to a compatible and attractive development.
Zone: R1 (Single-Family Residential) Approved by Decision Date: 3/4/24
Appeal of this decision shall be filed within 7 days of the decision date noted above by remittance of the appeal fee and according to the procedures set forth in Title 2, Chapter IX, of the Costa Mesa Municipal Code.

Cover Sheet

2994 Milbro St.

Costa Mesa, CA 92626

Sheet Index

Cover Page	1
Proposed Site Plan	2
Cover Layout – Aerial Perspective	3-4
Elevations – Side Perspective	5-6
Frontal Perspective	6-7
Architectural & Structural Details	8- End

Project Description & Scope of Work

We are to build two new aluminum insulated patio covers. The proposed patio covers are labeled "(P) Patio Cover" on the plans provided and their dimensions total about 411 sq. ft. There is a 2'6" distance to the side property line, about a 17'9" distance to the rear property line, and a 24' distance to the other side property line. These aluminum patio covers will be attached to the wall and fascia of the home. The electrical plan will consist of (4) lights. They are intended to be used as shade providing structures in the backyard of the home at 2994 Milbro Street, Costa Mesa, CA 92626. This project will not affect any pervious surface coverage, but our proposed structures will be adding 411 square feet to the total site coverage, resulting in a new total 25.6% site coverage.

Building Data Legend

Project Address: 2994 Milbro Street, Costa Mesa, CA 92626

Owner's Name, Address, & Contact Information: Amy & Cameron Kurth

2994 Milbro St.

Costa Mesa, CA 92626

(714) 203 - 4601

(cameronkurth@gmail.com)

Contractor's Info: Backyard Patio Covers and Awning (LIC# 1035265)

Authorized Agent/ Contact Person: Miguel Ceballos

2716 W Harvard St., Santa Ana, CA 92704 (miguel@garradesigns.com)

(949) 506 – 0990 (info@backyardpatiocoversandawning.com) (951) 494 - 2772

A.P.N.: 7061-020-009 (Single Family Residential)

Zoning Code: R-1

Site Coverage – Total Lot Size: 6,001 sq. ft.

Proposed Structure: 411 sq. ft.

Total Proposed Site Coverage: 1,541 sq. ft. / 6,001 sq. ft.

% of Site Coverage: 25.6% Site Coverage Construction Type: V-B

This project shall comply with all existing relevant codes:

2022 California Building Code (CBC)

2022 California Residential Code (CRC)

2022 California Mechanical Code (CMC)

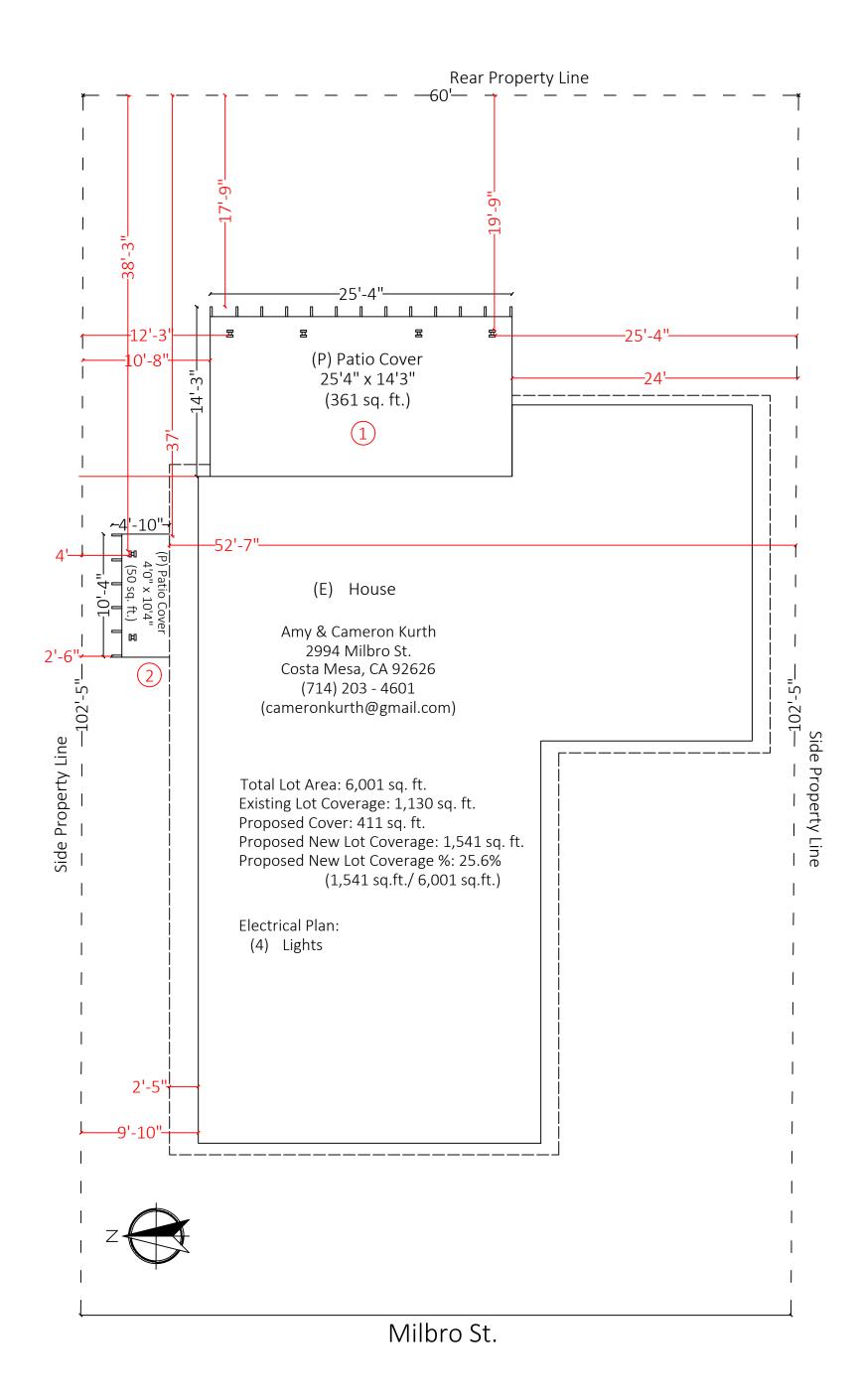
2022 California Plumbing Code (CPC)

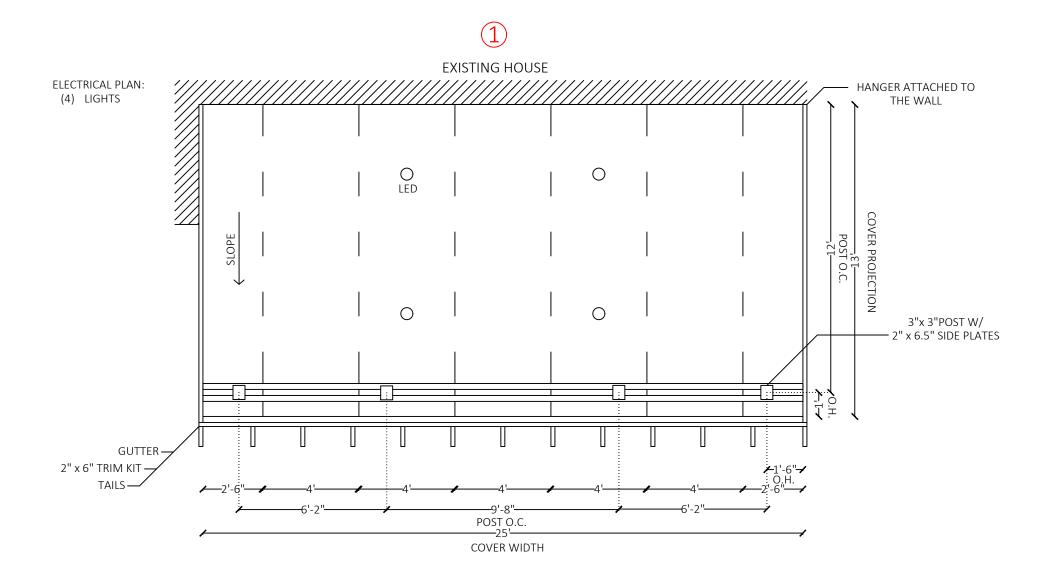
2022 California Electrical Code (CEC)

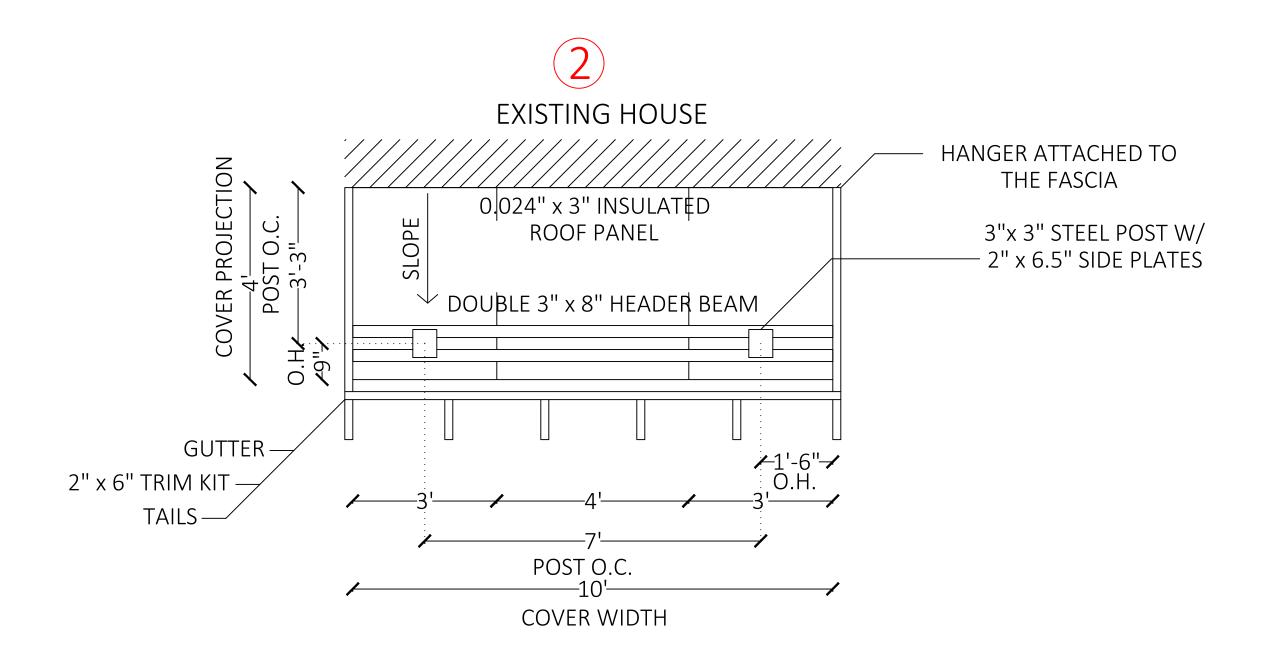
2022 California Green Building Standards Code (CGBS)

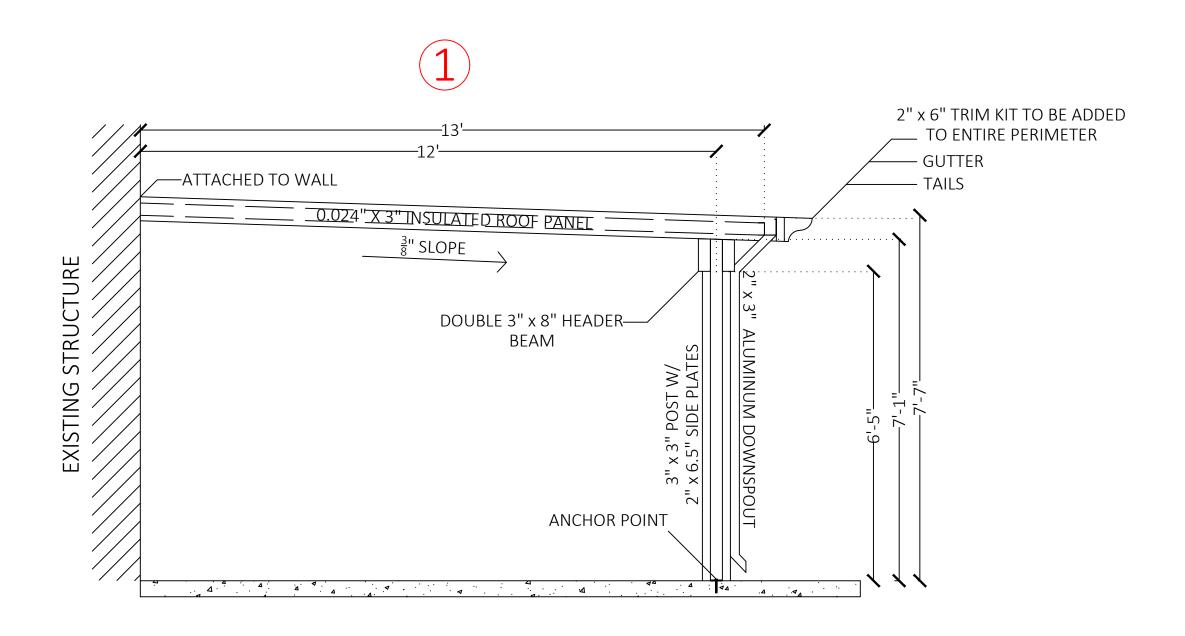
2022 California Energy Efficiency Code (CEEC)

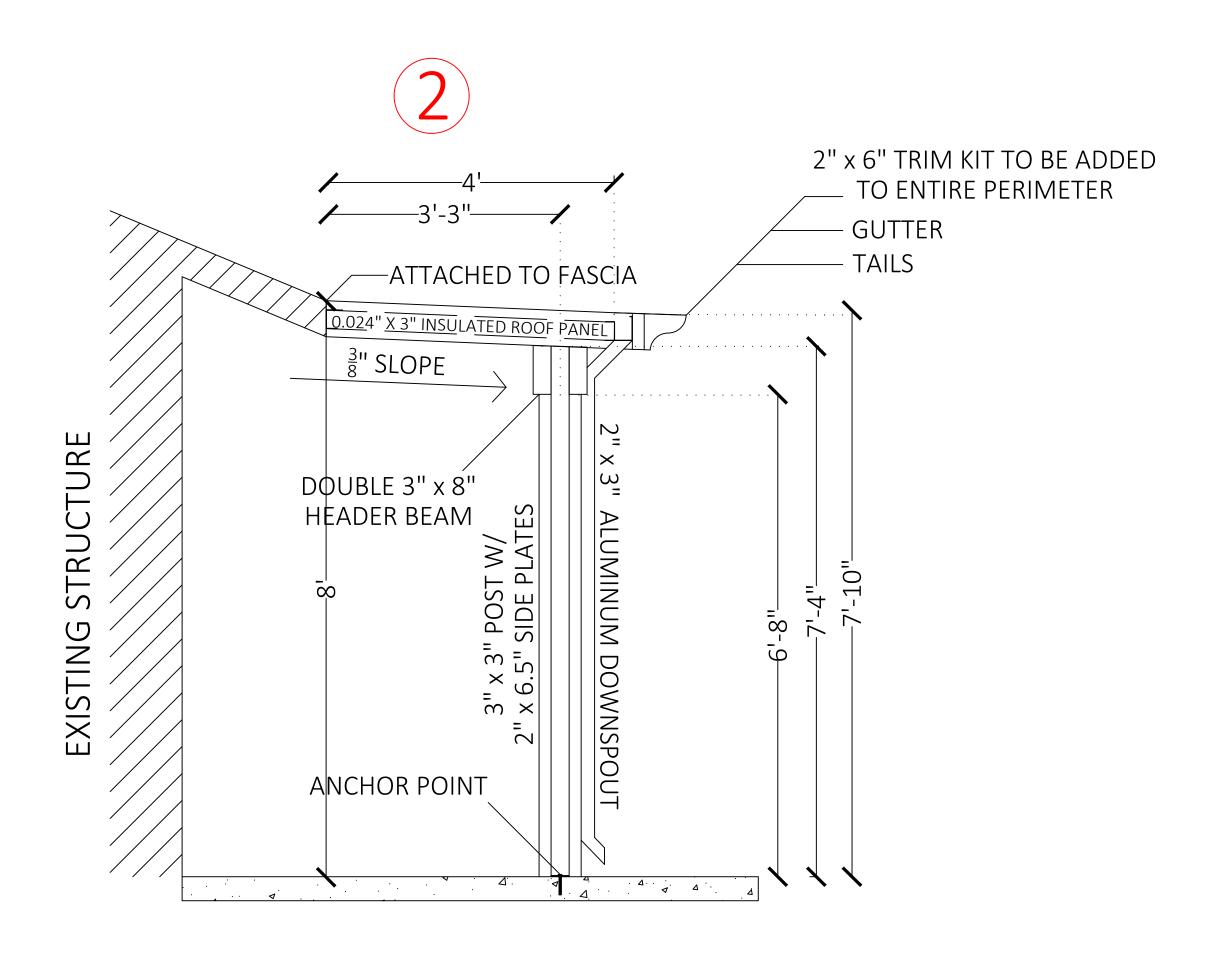
NDPES Statement - "The discharge of pollutants to any storm drainage system is prohibited. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on construction sites or by construction activities shall be placed, conveyed or discharged into the street, gutter or storm drain system."

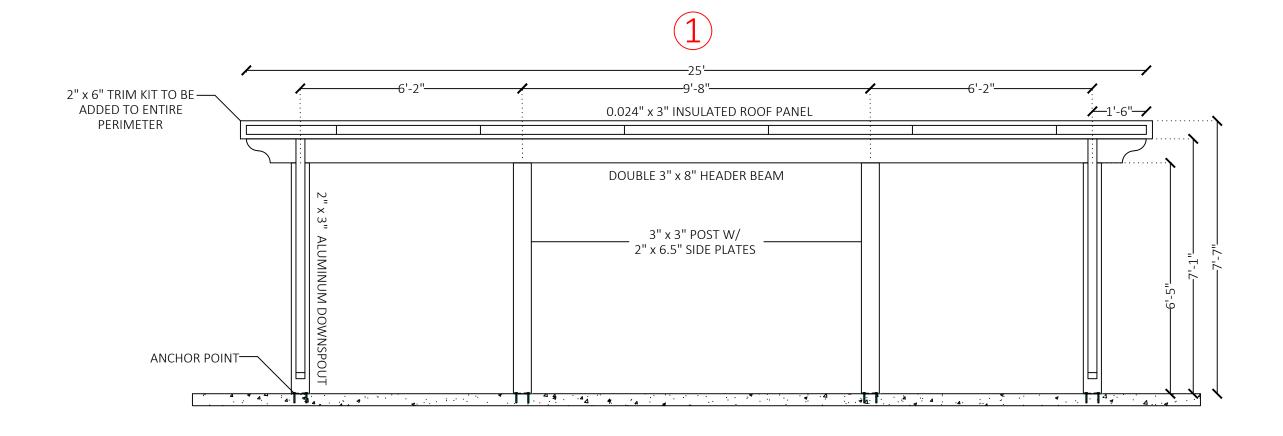


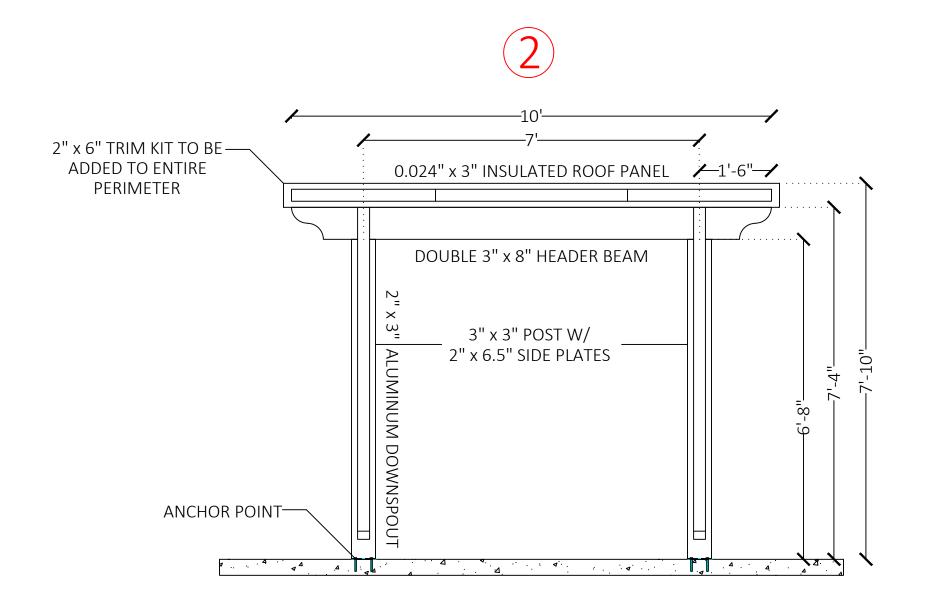












UNITED DURALUME PATIO COVER, CARPORT AND COMMERCIAL STRUCTURE ENGINEERING (2021 IBC)

PAGES DRAWING SECTION DESCRIPTION

1 PAGE PROFESSIONAL ENGINEERING STAMPS AND TRIBUTARY WIDTH DIAGRAM

1 PAGE GENERAL NOTES

LATTICE COVER COMPONENTS AND CONNECTION DETAILS

2 PAGE STRUCTURAL CONFIGURATIONS

6 PAGES COMPONENTS/CONNECTION DETAILS

4 PAGES LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES

44 PAGES LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL COVERS

SOLID COVER COMPONENTS AND CONNECTION DETAILS

2 PAGE STRUCTURAL CONFIGURATIONS

9 PAGES COMPONENTS/CONNECTION DETAILS

7 PAGES 4.0 PANEL SPANS FOR PATIO, CARPORT AND COMMERCIAL STRUCTURES

62 PAGES 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS

2 PAGES Misc1.DWG 7.0 MISC DETAILS

1 PAGE Misc2.DWG 7.0 FAN BEAM DETAILS

1 PAGE Misc3 7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES

2 PAGES Misc4a Misc4b 7.0 CONCRETE FOOTING OPTIONS

2 PAGES Misc5 7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS FOR SINGLE SPAN

ATTACHED LATTICE STRUCTURES

1 PAGE Misc6 7.0 FORCES ON EXISTING STRUCTURES

1 PAGE Misc7 7.0 STRUCTURAL PROPERTIES OF BEAMS, FASCIA, PANELS AND RAFTERS FOR USE BY DESIGN PROFESSIONALS

1 PAGE Misc8 7.0 CONCRETE SLAB REQUIREMENTS FOR CONSTRAINED FOOTINGS

Solid Cover 10 and 20 psf

SSIONAL ENGINEES

CARL PUTNAMERS

C68139

EXP. 6/30/2025

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Digitally signed by Carl M Putnam

Date:

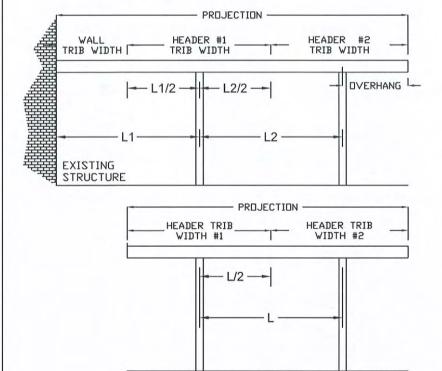
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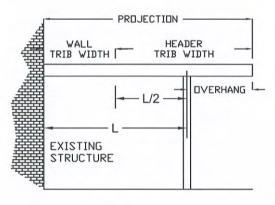
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January 9, 2023

PROFESSIONAL ENGINEERING STAMPS PAGE AND TRIBUTARY WIDTH DIAGRAM

THESE DRAWINGS DEFINE "TRIB WIDTH" FOR COMMON STRUCTURES







GENERAL NOTES:

- 1. DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AND THE 2022 CALIFORNIA BUILDING CODE.
- 2. ALUMINUM DESIGN IN ACCORDANCE WITH THE 2020 EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE INTERNATIONAL BUILDING CODE.
- 3. DESIGN LOADINGS: Ct = 1.2, I = 1.0, Ce = 1.0 (ALL EXPOSURES EXCEPT B AND C WHEN LOCATED TIGHT IN AMONG CONIFERS)
 GROUND SNOW LOAD DESIGN LOAD

10 PS	10 PSF	LIVE LOAD ONLY
20 PSF	20 PSF	LIVE LOAD ONLY
25 PSF	21 PSF	DESIGN ROOF SNOW LOAD
30 PSF	25.2 PSF	DESIGN ROOF SNOW LOAD
35.7 PSF	30.0 PSF	DESIGN ROOF SNOW LOAD
42 PSF	35.3 PSF	DESIGN ROOF SNOW LOAD
50 PSF	42 PSF	DESIGN ROOF SNOW LOAD
60 PSF	50.4 PSF	DESIGN ROOF SNOW LOAD

FOR 0.25/12 < SLOPE < 1/12

WIND SPEEDS IN THE 2021 IBC ARE "BASIC DESIGN WIND SPEED." ALL STRUCTURES DESCRIBED IN THIS REPORT ARE DESIGNED USING PRESSURES CALCULATED FROM "BASIC DESIGN WIND SPEEDS" FOR RISK CATEGORY II. FOR ATTACHED STRUCTURES THE MAXIMUM MEAN ROOF HEIGHT OF THE EXISTING STRUCTURE IS 30'. Kzt WAS ASSUMED AS 1.0 FOR ALL WIND LOADS. SITE LOCATIONS REQUIRING HIGHER A HIGHER Kzt VALUE (ISOLATED HILLS, RIDGES, ESCARPMENTS) WILL REQUIRE HIGHER WIND LOADS AS PER ASCE7-16 SECTION 26.8 AND ARE OUTSIDE THE SCOPE OF THIS REPORT.

NOTE: EXPOSURE B: SHALL APPLY WHEN THE GROUND SURFACE ROUGHNESS CATEGORY B (URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN W/ NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF A SINGLE FAMILY DWELLING OR LARGER) PREVAILS IN THE UPWIND DIRECTION FOR A DISTANCE OF AT LEAST 1500 FT.

EXPOSURE C: SHALL APPLY WHEN EXPOSURE B AND D (SMOOTH MUD FLATS, SALT FLATS, UNBROKEN ICE AND OTHER) DO NOT.

SEISMIC LOADING

MAXIMUM Ss = 150% SHOWN IN 2021 IBC FIGURE 1613.2.1(1)

Ss > 150% ARE NOT REQUIRED AS PER ASCE7-16 12.8.1.3 FOR Ss<215%

S1 NOT APPLICABLE TO THESE STRUCTURES

SITE CLASS = A-E ANALYSIS ASSUMES HIGHEST Fa

BASIC SEISMIC FORCE RESISTING SYSTEM

POSTS EMBEDDED INTO FOOTINGS = ORDINARY STEEL MOMENT FRAME >> R = 1.25

POSTS SURFACE MOUNTED = GENERIC SYSTEM >> R= 1.25

ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

THESE ROOFS ARE NOT SUBJECT TO MAINTENANCE WORKERS AND HAVE NOT BEEN EVALUATED FOR A CONCENTRATED 300 LBF LOAD.

THE BASIS OF THE DESIGN FORCES ARE IN ACCORDANCE WITH THE BASIC LOAD COMBINATIONS DESCRIBED IN IBC SECTION 1605.1 AND NO FURTHER INCREASES ARE PERMITTED FOR PATIO COVERS RESISTING WIND OR SEISMIC FORCES.

- 4. THIS ENTIRE ENGINEERING PACKAGE IS NOT REQUIRED FOR MOST BUILDING PERMITS. SUBMISSION FOR A BUILDING PERMIT MUST INCLUDE:
 - a. GENERAL NOTES (2 PAGES)
 - b. STRUCTURAL CONFIGURATIONS (1 PAGE)
 - c. RAFTER SPAN TABLES (FOR LATTICE STRUCTURES), PANEL SPAN TABLES (FOR SOLID COVER STRUCTURES) OR BOTH (FOR COMBINATION STRUCTURES)
 - d. HEADER POST SPACING, FOOTING SIZE AND POST TABLE FOR LIVE/SNOW AND WIND LOAD
 - e. ALL APPROPRIATE DETAILS
 - f. OTHER DOCUMENTATION REQUIRED BY LOCAL BUILDING AUTHORITY.
- 5. CONCRETE MIX: Fc=2500, 3000 OR 3500 PSI FOR 28 DAYS IN NEGLIGIBLE, MODERATE, AND SEVERE CONDITIONS AS SHOWN IN ACI 314-19. PATIO STRUCTURES MAY BE ATTACHED TO CONCRETE SLAB WITHOUT FOOTINGS (DETAILS 28, AQ AND AO) WHEN THE POST LOAD IS 750 LBF OR LESS AND THE FROST DEPTH IS ZERO. CONCRETE SHALL BE A MINIMUM OF 3.5 INCHES THICK AND NO CRACKS WITHIN 2'-6" OF POSTS. POSTS SHALL BE SET BACK A MINIMUM OF 4 INCHES FROM EDGE OR EXPANSION JOINT OF A SLAB.
- 6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL FROM TABLE 1806.2 OF 2018 IBC. ALLOWABLE FOUNDATION PRESSURE IS 1500 POUNDS PER SQUARE FOOT. LATERAL BEARING PRESSURE IS 100 PSF/FT AND IS DOUBLED PER IBC SECTION 1806.3.4. THESE DESIGN VALUES DO NOT APPLY TO MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT OR UNPREPARED FILLS AND MAY REQUIRE FURTHER SOIL INVESTIGATION. THE BUILDING OFFICIAL MAY ASSIGN A LOAD BEARING CAPACITY. UNITS IN ROOF SNOW/LIVE LOAD AREA OF 25 PSF OR LESS MAY BE BUILT ON 1000 PSF BEARING SOIL W/O ADDITIONAL ENGINEERING. MINIMUM FOOTING DEPTH IS THE LOCAL FROST DEPTH.
- 7. 20 PSF AND HIGHER LIVE LOAD STRUCTURES MAY BE USED AS COVERS FOR PARKING OF MOTOR VEHICLES. CARPORTS MUST HAVE AT LEAST TWO OPEN SIDES AND HAVE FLOOR SURFACES MADE OF APPROVED NONCOMBUSTIBLE MATERIAL OR ASPHALT.

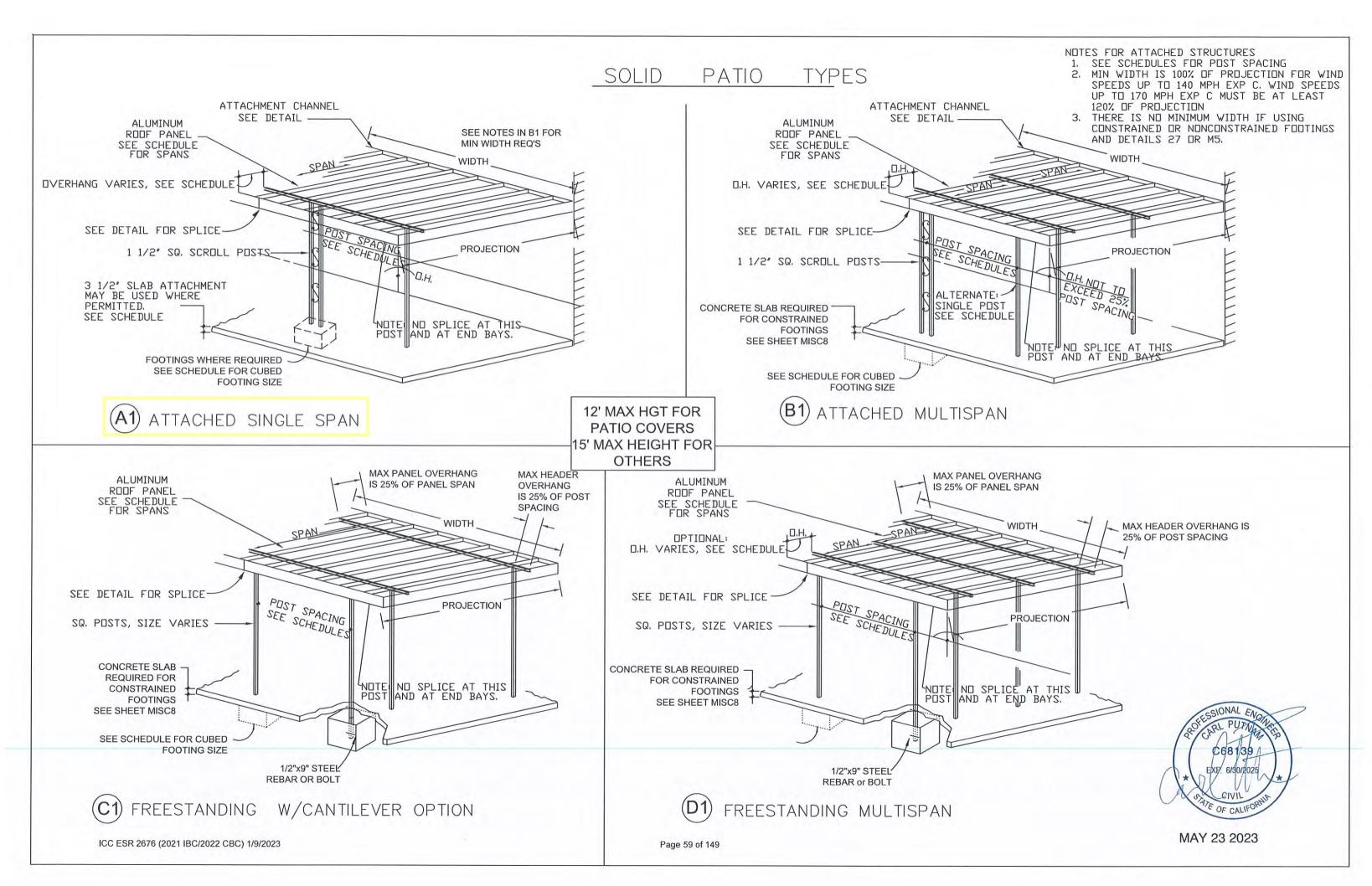
- 8. WOOD USED IN CONNECTIONS SHALL BE PROTECTED FROM WEATHER (EXTERIOR EXPOSURE) AS PER IBC SECTION 1404.2 AND /OR 1503, WHICHEVER IS MORE APPROPRIATE
- 9. ALL STEEL SHALL BE GALVANIZED PER ASTM A-653 G90, A123 G45 OR A153 B-3, PAINTED PER ASTM A755 OR PROTECTED WITH AN APPROVED COATING COMPLYING WITH IBC SECTION 2203.
- 10. ALTERNATE ALUMINUM ALLOYS OF EQUAL OR HIGHER STRENGTHS MAY BE USED. 3004H2x ALUMINUM MAY BE SUBSTITUTED FOR 3004H3x,
- 11. STEEL FASTENERS SHALL BE EITHER STAINLESS (300 SERIES), GALVANIZED OR DOUBLE CADMIUM PLATED. BOLTS SHALL BE ASTM A-307 HOT DIPPED GLAVANIZED, MECHANICALLY GALVANIZED, ZINC ELECTROPLATED, ALUMINIZED OR 300 SERIES STAINLESS STEEL. CONCRETE ANCHOR BOLTS ARE SPECIFED IN THE DETAILS. ALL WOOD SCREWS MUST COMPLY WITH ANSI/ASME STANDARD B18.6,1 AHD AND AWC NDS-18 12.1.5. ALL LAG SCREWS ANSI/ASME B18.2.1 AND AWC NDS-18 12.1.4. ALL STEEL WASHERS TO BE ASTM F844 W/ DIMENSIONS IN ACCORDANCE WITH ASME B18.22.1, TYPE A. THE MINIMUM WASHER DIAMETER SHALL BE 1" FOR BOLTED CONNECTIONS. ALL STEEL NUTS TO BE ASTM A563. SCREWS AND BOLTS SHALL HAVE A MINIMUM EDGE DISTANCE OF 2X FASTENER DIAMETER.
- 12. EMBEDDED POST SURFACES SHALL BE CLEAN AND FREE FROM OILY SURFACES.
- 13. HEADER SPLICES SHALL NOT BE LOCATED NEARER TO THE END OF THE STRUCTURE THAN THE FIRST INTERIOR POST. (EXCEPT FOR FULL STRENGTH SPLICES) FULL STRENGTH SPLICES (DETAILS X, Y, Z AND AA) MAY BE LOCATED ANYWHERE.
- 14. ALL SELF DRILLING AND SELF TAPPING SCREWS MUST COMPLY TO ICC- ESR 1271, 1408, 1976, 2196, 3006, 3215, 3223, 3231, 3294, 3332, 3528, 3558, OR EQUIVALENT AND USE HEADS W/ DIAMETERS EQUAL TO $\#8 = \frac{5}{16}$ ", $\#10 = \frac{3}{8}$ ", $\#12 = \frac{12}{32}$ " AND $\#14 = \frac{1}{2}$ " OR STEEL WASHERS OF SIMILAR DIAMETER AND AS PER GENERAL NOTE #11
- 15. STRUCTURES SHALL NOT BE ENCLOSED IN ANY MANNER WITHOUT APPROVAL OF THE CODE OFFICIAL.
- 16. ALUMINUM SOLID ROOF PANELS ARE CLASS A FIRE RATED AS INDICATED BY THE EXCEPTION IN IBC SECTION 1505.2. ALUMINUM IS A NONCOMBUSTIBLE MATERIAL AS PER 2021 IBC CHAPTER 20 AND THE ALUM ASSOC. 2020 ALUMINUM DESIGN MANUAL (AA ADM 1) PART III SECTION 7.
- 17. AT LEAST ONE HORIZONTAL DIMENSION (PROJECTION OR WIDTH) OF COVER SHALL BE LESS THAN 30'.
- 18. WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH DISSIMILAR METALS (OTHER THAN ALUMINIZED OR GALVANIZED STEEL) OR ABSORBENT BUILDING MATERIALS, LIKELY TO BE CONTINUOUSLY OR INTERMITTENTLY WET, THE FAYING SURFACES SHALL BE PAINTED OR OTHERWISE SEPARATED IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL SECTION M.7.1 OR M.7.2.
- 19. WHEN A SINGLE SPAN ATTACHED UNIT IS ATTACHED TO A WOODEN DECK, THE MAXIMUM DEAD LOAD + SNOW/LIVE LOAD FROM THE PATIO COVER IS 750 LBS CONCENTRATED LOAD AT EACH POST AND THE POST SPACING SHALL NOT EXCEED THAT SPECIFIED FOR ATTACHING TO A CONCRETE SLAB. THE MAXIMUM CONNECTION UPLIFT LOAD IS 1366 LBS FOR 115 MPH EXP C WIND SPEED. CONNECTIONS ARE FOR MAXIMUM PATIO ROOF HEIGHTS OF 12 FT FROM GRADE. THE EXISTING DECK STRUCTURE MUST BE ADEQUATE TO SUSTAIN THESE ADDITIONAL LOADS. THE STRUCTURAL ADEQUACY OF THE DECK TO SAFELY SUSTAIN THESE ADDITIONAL LOADS WILL REQUIRE APPROVAL BY LOCAL BUILDING AUTHORITY OR ADDITIONAL ENGINEERING. SEE DETAIL M6, CONSTRUCTION OUTSIDE OF THESE PARAMETERS MAY REQUIRE ADDITIONAL ENGINEERING.
- 20. All structures must comply with one of the following:
 - All structures with a roof snow load of 30 psf or less may be built in Seismic Design Category (SDC) A-D up to the maximum Ss noted in General Note #3.
 - b. Structures with flat roof design snow loads over 30 psf complying with IBC Section 1613.1 Exception #1 do not require additional seismic analysis.
 - c. Structures not complying with (a) or (b) must have constrained or non-constrained footings and are limited to the Ss shown in Section 2.0 or 5.0.
- 21. DRIFTING SNOW IS ADDRESSED IN DETAIL M4. SLIDING SNOW IS BEYOND THE SCOPE OF THIS REPORT.
- 22. ALL MULTISPAN TABLES AND DETAILS ASSUME EQUAL SPANS WITH A LONGEST SPAN TO SHORTEST SPAN RATIO OF 1.2. ALL SPECIFICATIONS MUST BE BASED ON LONGEST ACTUAL SPAN.
- 23. SEVERAL DETAILS (K, M, S, 11, 13 AND 15) SPECIFY CONNECTIONS BASED ON "MAX HEADER SPAN". THIS SPAN IS THE MAX ALLOWABLE SPAN IN THE SECTION 5.0 TABLES FOR THAT HEADER, TRIB AND LOAD CONDITIONS. SEE THE EXAMPLES IN DETAILS S OR 15.

GENERAL NOTES FOR LATTICE STRUCTURES:

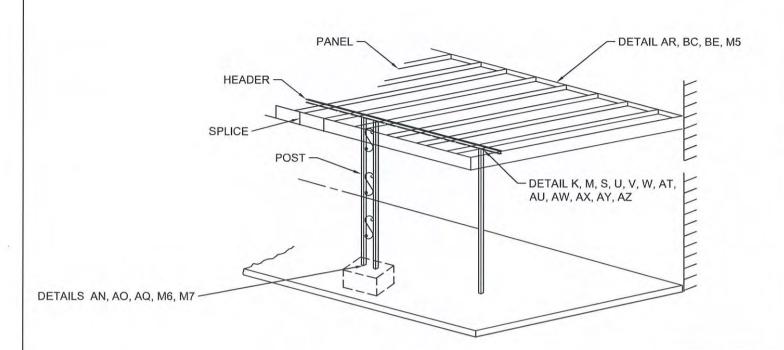
(PERTAINS TO LATTICE STRUCTURES (DETAILS 1-39)

- 1. SEE GENERAL NOTES #3 FOR LIVE AND SNOW LOADS.
- 2. SINGLE SPAN LATTICE STRUCTURES THAT DO NOT USE DETAIL 27 OR M7 MUST USE DETAIL 17 OR 30 AND MUST COMPLY WITH TABLE L1 AND L2 ON SHEET MISC5.





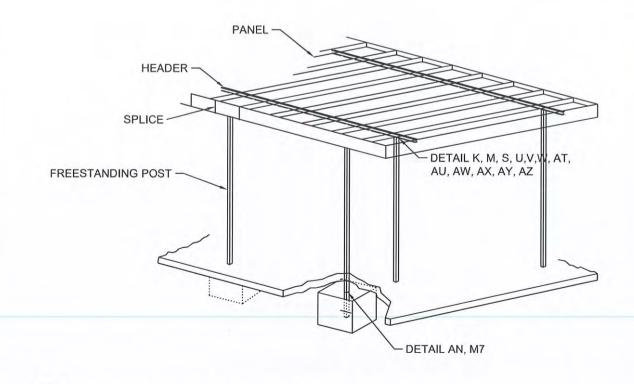
SOLID PATIO TYPES



DETAIL AR, BC, BE, M5 PANEL HEADER **DETAILS:** PANEL: E, F, G, H, I SPLICE -HEADER: J, K, L, M, N, O, P, Q, R, S, T, U, V, W, AU POST: AE, AH, AK, AF, AL, DETAIL K, M, S, AT, AJ, AO MULTISPAN POST AU, AW, AX, AY, AZ POSTS FOR FREESTANDING AND MULTISPAN UNITS: AF AND AK (STEEL ONLY) SPLICE: X, Y, Z, AA DETAIL AN, M7

A2) ATTACHED SINGLE SPAN

12' MAX HGT FOR PATIO COVERS 15' MAX HEIGHT FOR OTHERS (B2) ATTACHED MULTISPAN



FREESTANDING/MULTISPAN POST

1/2"x9" STEEL
REBAR OF BOLT

ALUMINUM

PANEL

DETAIL K, M, S, U, VW, AT, AU, AW, AX, AY, AZ

DETAIL AN, M7



FREESTANDING MULTISPAN

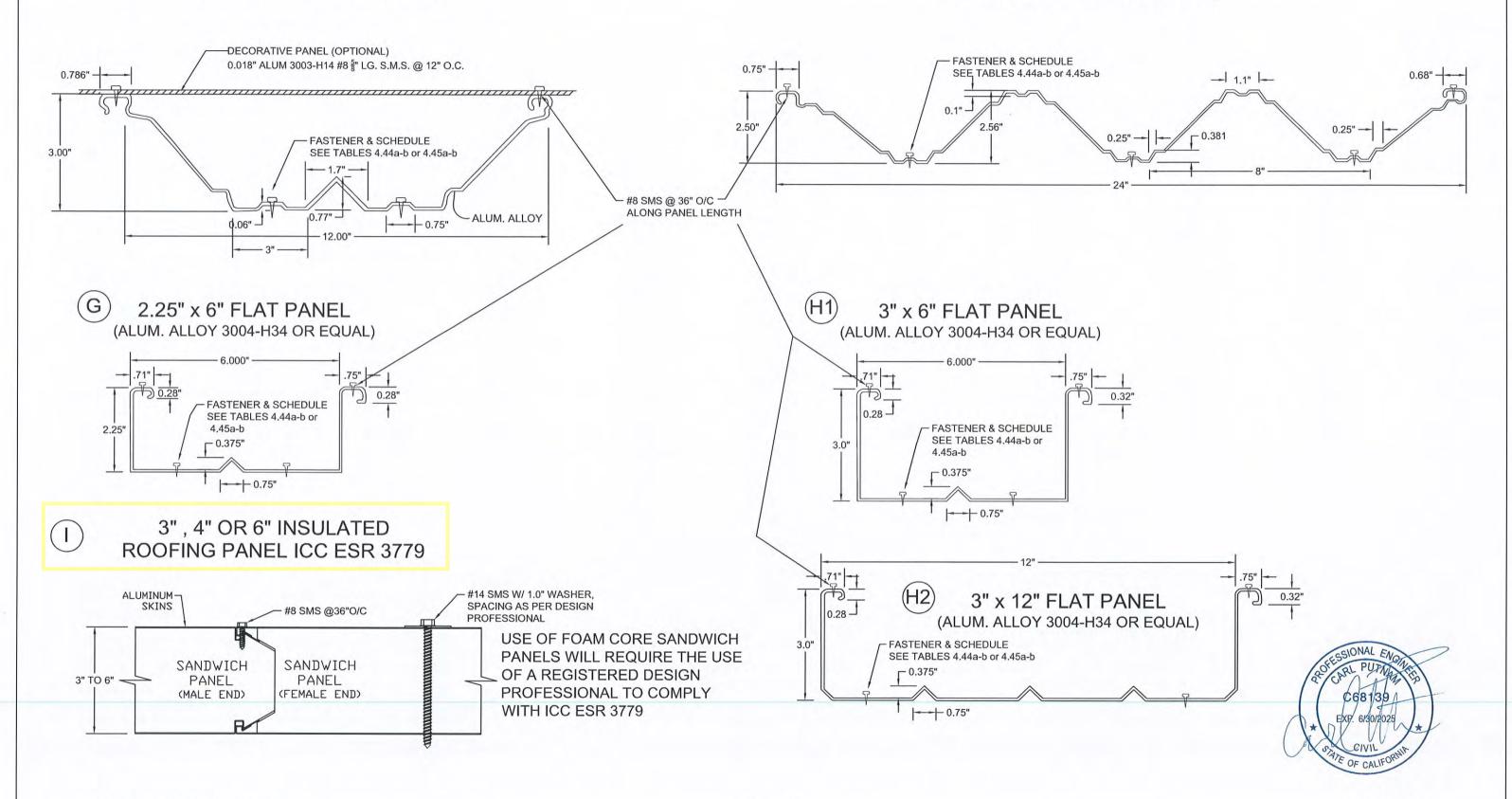
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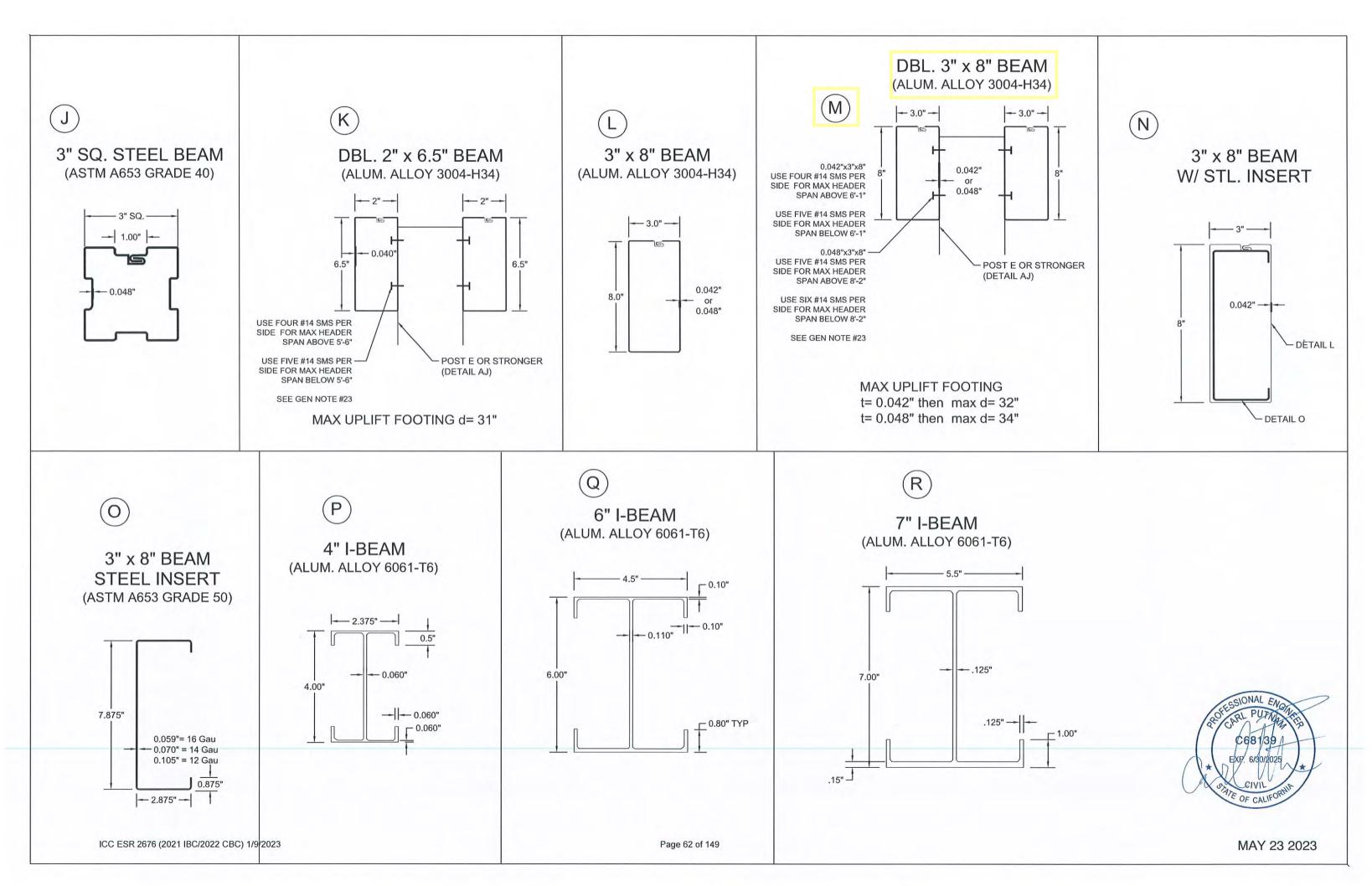
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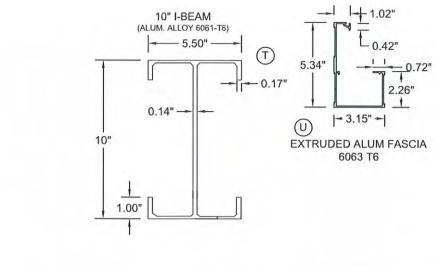
FREESTANDING W/CANTILEVER OPTION
ICC ESR 2676 (2021 IBC/2022 CBC) 1/9/2023

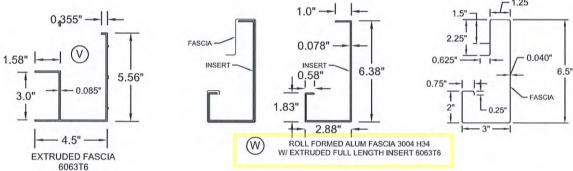


F 2 ½" x 24" TRI-PANEL (ALUM. ALLOY 3004-H34 OR EQUAL)

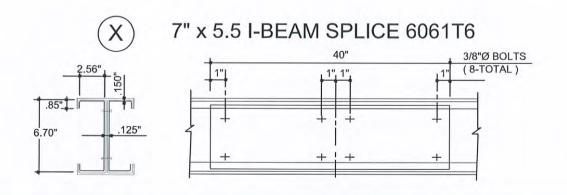




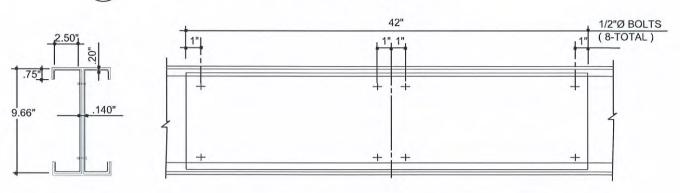




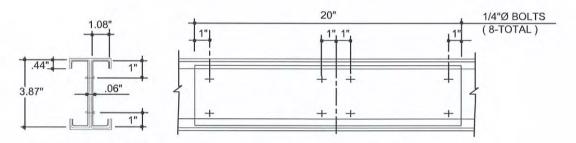
DETAILS X, Y, Z AND AA ARE FULL MOMENT SPLICES



Y 10" x 5.5 I-BEAM SPLICE 6061T6

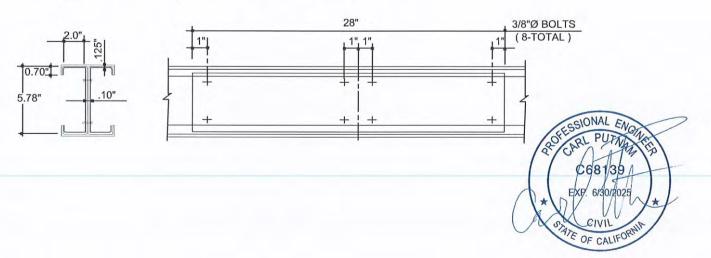


(Z) 4" x 2.375 I-BEAM SPLICE 6061T6



I BEAM SPLICES ARE ON BOTH SIDES OF WEB

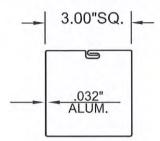
(AA) 6" x 4.5 I-BEAM SPLICE 6061T6





3" SQ. ALUM POST

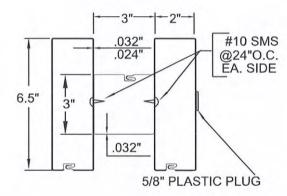
ALUM. ALLOY 3004-H34



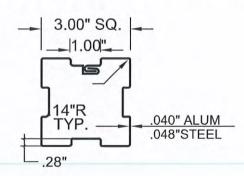


3" SQ. ALUM POST WITH SIDE PLATES

ALUM. ALLOY 3004-H34

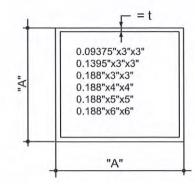


3" SQ. ALUM POST ALUM. ALLOY 3004-H34 3" SQ. STEEL POST ASTM A653 SS GRADE 40

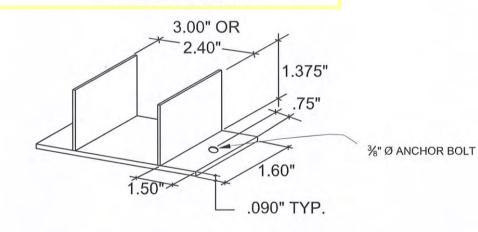


(AF)

SQ. STEEL POST ASTM A500 GRADE B

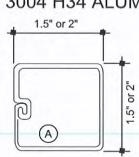


ALUM "T" BRACKET
.090" BRACKET FOR 3" POSTS
ALUM. ALLOY 6063-T5



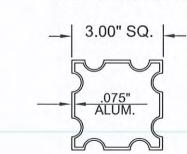
(

0.032"x1.5"x1.5" 0.024"x 2"x2" POST 3004 H34 ALUM



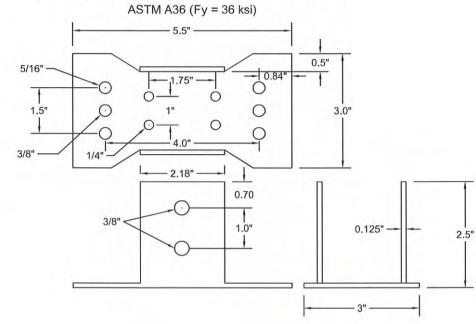
(AJ)

MAG POST -3" SQ. ALUM POST ALUM. ALLOY 6063-T5



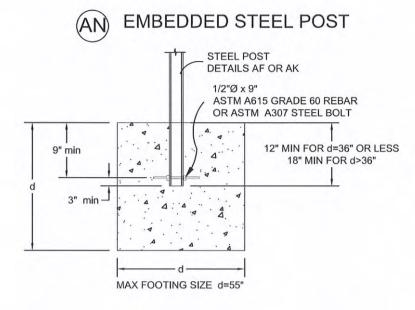


STEEL "T" BRACKET FOR 3" POSTS

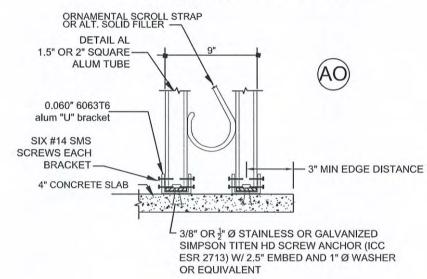




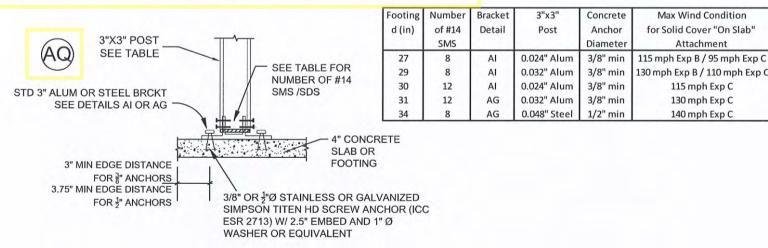
DETAIL AM IS NOT USED



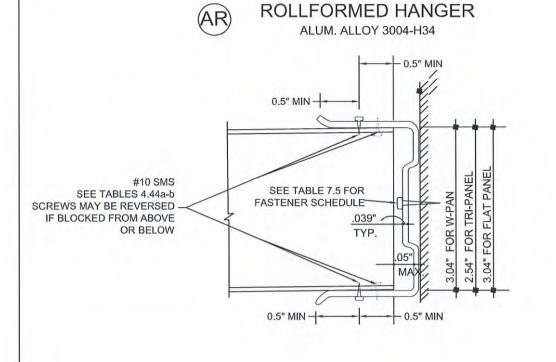
1 1/2" or 2" POST TO CONC SLAB CONNECTION FOR SINGLE SPAN ATTACHED STRUCTURES ONLY in 110 mph Exposure B and 95 mph Exposure C Areas

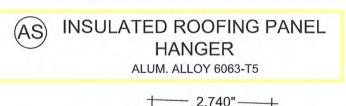


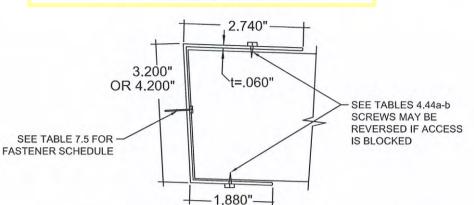
POST ON CONC. SLAB OR FOOTING FOR SINGLE SPAN ATTACHED STRUCTURES ONLY











3"x8" BEAM TO POST CONNECTION USING SIDE PLATES (SEE DETAIL AH)

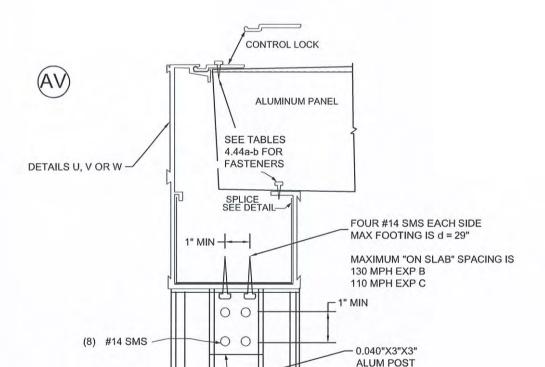
3"x8" ALUM BEAM
W/ OR W/O STEEL C INSERT
(DETAILS L OR N)

(4)-#14 SMS @ EA. SIDE
SIDEPLATE TO HEADER
MIN 1" O/C SPACING
FOR 110 mph Exp B/ 95 mph
Exp C "ON SLAB"

USE (5) #14 SMS FOR
140 mph Exp B, 120 mph Exp C
"ON SLAB" OR d=29"
FOOTINGS

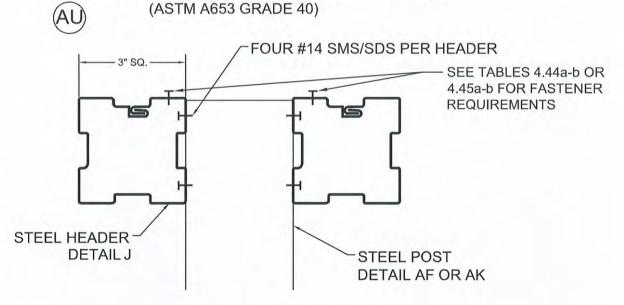
3" X 3" ALUM. OR

STEEL POST



DETAIL AI

DOUBLE OR SINGLE 3" SQ. STEEL BEAMS

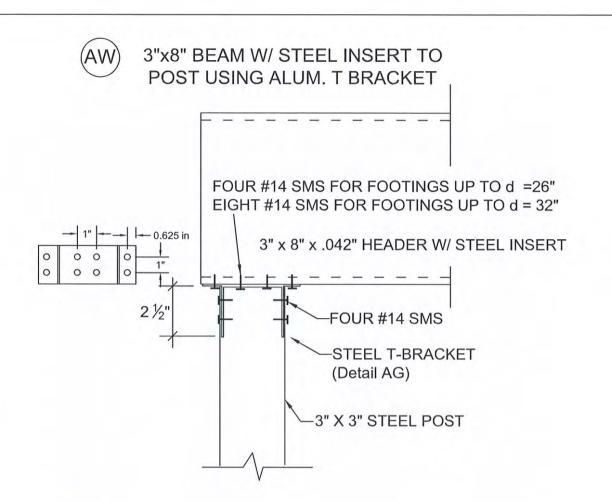


(4) OR (5) #14 SMS @ EA SIDE

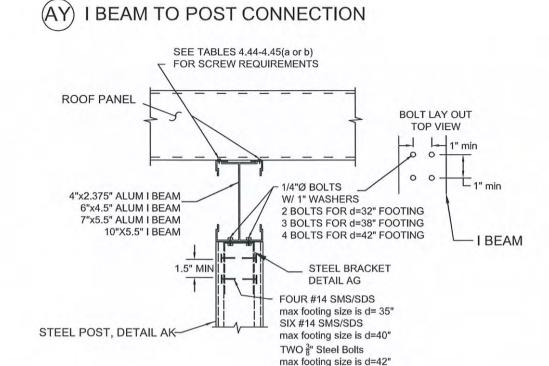
MATCH HEADER REQUIREMENTS

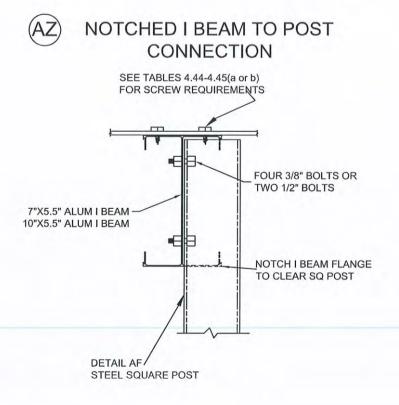
24" o/c approx

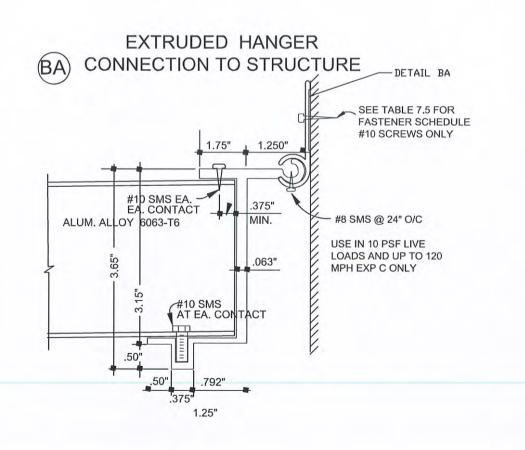


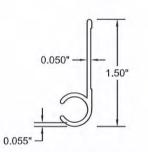


DETAIL AX IS NOT USED





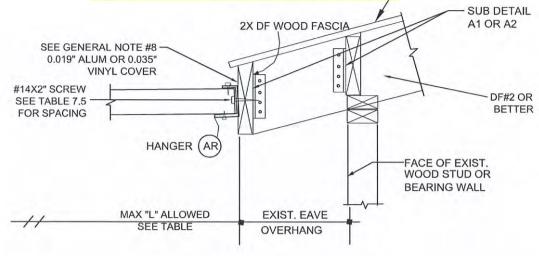


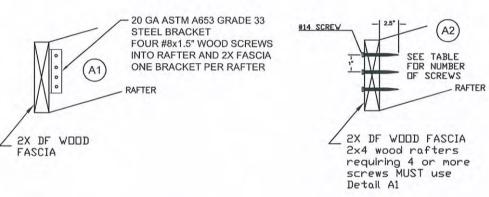


(BB) EXTRUDED CLIP 6063T6









LEDGER TO STRUC	USE ITIS
EXISTING SHEATHING	SOLID COVERS
EXISTING DF WOOD FRAMED WALL CONTINUE LEDGER O STRONG T AT SPLICE COVER W/	LETELY DUS 2"x6" DOUGLAS FIR OR PROVIDE SIMPSON TIE MSTA36 (ICC ESR 2105) E LOCATION TO 0.019" ALUMINUM L 1/4" LAG SCREW THE TABLE 7.7 FOR MAX AFTER SPANS THE GENERAL NOTE #8
EXISTING 1" S'	TUCCO

Live/Snow Load Solid Cover Wind	SIZE		EAV	E OVERHA	NG	COTA PAGE TO	# of #14 Screws
(psf)	(24" O/C)	6"	12"	18"	24"	30"	Ociewa
10	2x4	20'-6"	18'-10"	10'-11"	6'-5"	3'-4"	
115 MPH EXP B	2x6	20'-6"	20'-6"	20'-6"	20'-6"	15'-6"	3
113 WILLY D	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	3
10	2x4	20'-6"	18'-10"	10'-11"	6'-5"	3'-4"	
105 MPH EXP C	2x6	20'-6"	20'-6"	20'-6"	20'-6"	15'-6"	3
100 WI TI EX O	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	3
10	2x4	20'-6"	17'-3"	10'-0"	5'-11"	3'-1"	
110 MPH EXP C	2x6	20'-6"	20'-6"	20'-6"	19'-10"	14'-3"	3
TIO WITTEN C	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	3
10	2x4	20'-6"	15'-9"	9'-1"	5'-4"	2'-9"	
115 MPH EXP C	2x4 2x6	20'-6"	20'-6"	20'-6"	18'-2"	13'-0"	3
113 WIFTI EXP C	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	3
10	2x4	20'-6"	14'-5"	8'-4"	4'-11"	2'-7"	
120 MPH EXP C	2x4 2x6	20'-6"	20'-6"	20'-6"	16'-7"	11'-11"	3
120 WIFTI LAF C	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	3
10	2x4	20'-6"	12'-3"	7'-1"	4'-2"	2'-2"	
130 MPH EXP C	2x4 2x6	20'-6"	20'-6"	20'-4"	14'-1"	10'-1"	4
130 MPH EXP C	2x8	20'-6"	20'-6"	20'-6"	20'-6"	19'-11"	4
40		20'-6"		6'-1"	3'-7"	1'-10"	-
10 140 MPH EXP C	2x4	20'-6"	10'-6" 20'-6"	17'-6"		1000	,
140 MFH EXF C	2x6 2x8	20'-6"	20'-6"	20'-6"	12'-1" 20'-6"	8'-8" 17'-1"	4
20		18'-0"	9'-10"	5'-7"	3'-3"	1'-7"	
20 140 MPH EXP C	2x4	18'-0"	18'-0"	100000000000000000000000000000000000000	7-0-0		
140 MFH EXP C	2x6 2x8	18'-0"	18'-0"	16'-4" 18'-0"	11'-3" 18'-0"	8'-0" 15'-11"	4
25		18'-0"	10'-10"	6'-3"	3'-8"	-	
25 130 MPH EXP C	2x4	18'-0"	18'-0"	18'-0"	12'-6"	1'-11" 8'-11"	4
130 WIFH EXP C	2x6 2x8	18'-0"	18'-0"	18'-0"	18'-0"	17'-8"	4
25			10'-6"	6'-1"	3'-7"		
25 140 MPH EXP C	2x4	18'-0"	1000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1'-10"	
140 MPH EXP C	2x6	18'-0" 18'-0"	18'-0" 18'-0"	17'-6" 18'-0"	12'-1"	8'-8"	4
20	2x8	17'-0"	8'-11"	5'-1"	18'-0"	17'-1" 1'-3"	
30 140 MPH EXP C	2x4 2x6	17'-0"	17'-0"	14'-11"	2'-10" 10'-3"	7'-2"	4
140 MFH EXP C	100000	17'-0"	17'-0"	17'-0"	17'-0"	14'-6"	4
25.7	2x8		7'-5"				
35.7 140 MPH EXP C	2x4	16'-0" 16'-0"	16'-0"	4'-0" 12'-4"	2'-1" 8'-4"	0'-8" 5'-8"	-
140 WIFH EXP C	2x6 2x8	16'-0"	16'-0"	16'-0"	16'-0"	11'-10"	5
40			6'-2"	3'-3"			-
42 140 MPH EXP C	2x4	14'-0" 14'-6"	14'-6"	3-3 10'-4"	1'-6" 6'-10"	0'-3"	-
140 MPH EXP C	2x6			1,747		4'-6"	5
E0.	2x8	14'-6" 11'-9"	14'-6"	14'-6"	13'-5"	9'-9"	
50 140 MPH EXP C	2x4		5'-1"	2'-6"	0'-11"	- A - A - A - A - A - A - A - A - A - A	
140 WIFH EXP C	2x6	13'-3"	13'-3"	8'-6"	5'-5"	3'-5"	5
	2x8	13'-3"	13'-3"	13'-3"	11'-0"	7'-10"	
60	2x4	9'-9"	4'-1"	1'-10"	0'-5"	0'-0"	_
140 MPH EXP C	2x6	12'-2"	11'-7"	6'-10"	4'-2"	2'-5"	6
	2x8	12'-2"	12'-2"	12'-2"	8'-10"	6'-2"	

Live		MAX DIST	ANCE TO	FIRST ROV	V OF POS	TS "L"	Number
Snow	RAFTER		EAV	E OVERHA	NG		of #14
	SIZE	6"	30"	Screws			
10 psf	2x4	25'-2'	18'-10'	10'-11'	6'-5'	3'-4'	
130 mph Exp C	2x6	25'-2'	25'-2'	25'-2'	21'-8'	15'-6'	3
	2x8	25'-2'	25'-2'	25'-2'	25'-2'	25'-2'	
20 psf	2x4	18'-3'	9'-10'	5'-8'	3'-4'	1'-9'	
130 mph Exp C	2x6	18'-3'	18'-3'	16'-5'	11'-4'	8'-1'	4
	2x8	18'-3'	18'-3'	18'-3'	18'-3'	16'-1'	
25 psf	2x4	17'-9'	9'-4'	5'-4'	3'-1'	1'-6'	
130 mph Exp C	2x6	17'-9'	17'-9'	15'-7'	10'-9'	7'-8'	4
2,400 go. 34.00	2x8	17'-9'	17'-9'	17'-9'	17'-9'	15'-3'	
30 psf	2x4	16'-5'	7'-8'	4'-3'	2'-3'	0'-11'	
130 mph Exp C	2x6	16'-5'	16'-5'	12'-10'	8'-8'	6'-0'	4
100 00000000000000000000000000000000000	2x8	16'-5'	16'-5'	16'-5'	16'-5'	12'-4'	
36 psf	2x4	14'-3'	6'-4'	3'-4'	1'-7'	0'-4'	
130 mph Exp C	2x6	15'-0'	15'-0'	10'-7'	7'-0'	4'-8'	5
	2x8	15'-0'	15'-0'	15'-0'	13'-9'	10'-1'	
42 psf	2x4	12'-1'	5'-3'	2'-8'	1'-1'	0'-0'	
130 mph Exp C	2x6	13'-11'	13'-11'	8'-10'	5'-9'	3'-8'	5
	2x8	13'-11'	13'-11'	13'-11'	11'-6'	8'-3'	
50 psf	2x4	10'-2'	4'-3'	2'-0'	0'-7'	0'-0'	
130 mph Exp C	2x6	12'-9'	12'-1'	7'-3'	4'-6'	2'-8'	5
	2x8	12'-9'	12'-9'	12'-9'	9'-4'	6'-6'	
60 psf	2x4	8'-5'	3'-5'	1'-5'	0'-2'	0'-0'	
130 mph Exp C	2x6	11'-8'	10'-0'	5'-9'	3'-5'	1'-10'	6
Mary Company of the C	2x8	11'-8'	11'-8'	11'-2'	7'-6'	5'-1'	

 $\Lambda\Lambda\Lambda\Lambda\Lambda$

USE THIS TABLE FOR LATTICE COVERS



WITH MIN SG = 0.5

2.25" EMBED INTO WOOD FRAMING

SECTION 4.0 SOLID COVER INSTRUCTIONS AND POST TABLES

GENERAL INSTRUCTIONS FOR THESE TABLES

- 1. CHOOSE FREESTANDING OR ATTACHED STRUCTURE
- 2. CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
- 3. DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE

(PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS USE 20 PSF MIN)

4. CHOOSE A PANEL FROM SECTION 4.0 THAT HAS

ADEQUATE CLEARSPAN FOR YOUR NEEDS.

5. DETERMINE TRIBUTARY WIDTH FROM TABLE 4.1 OR CALCULATE FROM TRIBUTARY DIAGRAM ON PAGE 2

6. LOCATE HEADER TABLE IN SECTION 5.0 W/ CORRECT PARAMETERS

- a. GROUND SNOW LOAD, SEE GEN NOTE #3
- b. LIVE LOAD, SEE #3 ABOVE
- c. WIND SPEED, SEE GEN NOTE #3
- d. EXPOSURE, SEE GEN NOTE #3
- e. SEISMIC, SEE GEN NOTE #3
- f. ATTACHED OR FREESTANDING
- g. a-e ARE SET BY YOUR LOCAL BUILDING AUTHORITY
- 7. CHOOSE A HEADER FROM TABLES IN SECTION 5.0 THAT HAS ADEQUATE POST SPACING
- 8. DETERMINE FOOTING SIZE

USE THE UPLIFT FOOTING IF BOTH OF THESE CONDITIONS ARE MET

- a. STRUCTURE IS ATTACHED TO AN EXISTING STRUCTURE
- b. PROJECTION IS EQUAL OR SHORTER THAN THE WIDTH (SEE DETAIL A1 OR B1)
- c. GO TO #9a

IF EITHER 8a OR 8b ARE NOT TRUE THEN:

- d. CHOOSE CONSTRAINED FOOTING SIZE BASED ON THE 3 CHOICES OF POST HEIGHT
- e. USE THE LARGER OF THE UPLIFT OR CONSTRAINED FOOTING SIZE
- f. CONSTRAINED FOOTINGS MUST USE DETAIL AN OR M7
- g. GO TO 9b
- 9. DETERMINE POST TYPE
 - a. IF BOTH 8a AND 8b ARE TRUE THEN USE POST SHOWN IN SECTION 5.0 TABLE UNDER "MIN POST TYPE", CROSS REFERENCE LETTER CODE W/ TABLE 4.2
 IF THIS POST'S MAX HEIGHT IS TOO SHORT, UPGRADE THE POST.
 - b. IF EITHER 8a OR 8b ARE NOT TRUE THEN:

DETERMINE POST TYPE FROM CROSS REFERENCING THE UPLIFT FOOTING AND CONSTRAINED FOOTING ON TABLE 4.3 example #1: A 40" UPLIFT FOOTING AND A 20" CONSTRAINED FOOTING ARE REQUIRED. POST TYPE "F2" IS REQUIRED. TABLE 4.2 SHOWS POST TYPE "F2" TO BE A 0.048"X3"X3" STEEL CLOVER POST WITH A MAX HEIGHT OF 10'. example #2: A 20" UPLIFT FOOTING AND A 40" CONSTRAINED FOOTING ARE REQUIRED. POST TYPE "K1" IS REQUIRED. TABLE 4.2 SHOWS POST TYPE "K1" TO BE A 3/16"X5"X5" STEEL POST WITH A MAX HEIGHT OF 15'.

- 10. IF STRUCTURE IS ATTACHED FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
- 11. USE THE APPROPRIATE DETAILS (A1 TO BE)
- 12. UPLIFT FOOTING MAY CHANGE SHAPE (ROUND, SET DEPTH) OR REDUCE SIZE USING TABLES 7.8, 7.9, 7.10, 7.11 AND 7.12.
- CONSTRAINED FOOTINGS MAY CHANGE SHAPE, REDUCE SIZE OR BECOME NONCONSTRAINED USING TABLES 7.8 AND 7.12.

FOR PATIO SLABS FOLLOW 1-7 FROM ABOVE THEN

SLAB 7. USE THE SMALLER OF THE POST SPACING ON SLAB OR HEADER POST SPACING

- SLAB 8. BOTH 8a AND 8b MUST BE TRUE
- SLAB 9. FOLLOW 9a FROM ABOVE
- SLAB 10. FOLLOW 10 AND 11 FROM ABOVE
- **SLAB 11.** FOR **TWO** POST STRUCTURES USE **TABLE 7.1** ON SHEET **Misc3** FOR SLAB REQUIREMENTS INSTEAD OF SECTION 5.0

ICC ESR 2676 (2021 IBC/2022 CBC) 1/9/2023

V¦ãa ÁGHÁQUÇ^¦@a)* ÁÉÁÙ]aa)DÁROS V¦ãa ÁGHÁQFOÉÁ Í OMAÁG V¦ãa ÁGHÁQÎOÓHAÁG V¦ãa ÁGHÁHC

		TAB	LE 4.1	TRIBU	TARY	WIDTH	SFOR	SINGLI	SPAN	ATTA	CHED	STRUCT	URES				
OVER-				PROJ	CTION	OF SI	NGLE S	SPAN S	TRUC	TURES	(FT)						
HANG	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'
0'	3'	3.5'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5	9'	9.5	10'	10.5'	11'
0.5'	3.25'	3.75	4.25	4.75	5.25'	5.75	6.25'	6.75	7.25	7.75	8.25	8.75	9.25	9.75	10.25	10.75	11.25
1'	3.5	4'	4.5'	5'	5.5	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5	11'	11.5
1.5'	n/a	4.25'	4.75	5.25'	5.75	6.25	6.75	7.25	7.75	8.25'	8.75	9.25	9.75	10.25	10.75	11.25	11.75
2'	n/a	n/a	n/a	5.5	6'	6.5'	7'	7.5'	8'	8.5	9'	9.5'	10'	10.5'	11'	11.5	12'
2.5'	n/a	n/a	n/a	n/a	n/a	6.75	7.25	7.75	8.25	8.75	9.25	9.75	10.25	10.75	11.25	11.75	12.25
3'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8'	8.5	9'	9.5'	10'	10.5	11'	11.5'	12'	12.5
3.5'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.25'	9.75'	10.25	10.75	11.25	11.75	12.25	12.75
4'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.5	11'	11.5	12'	12.5'	13'
4.5'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.75	12.25	12.75	13.25
5'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13'	13.5'

Post Description	100000000000000000000000000000000000000	POST Type	Detail
Twin 0.032"x1.5"x1.5" Alum	8'	Α	AL AO
Twin 0.024"x2"x2" Scroll	9'	В	AL AO
0.032"Post w/ 0.024" Sideplates	12'	C1	AH 21
0.032"Post w/ 0.032" Sideplates	12'	C2	AH 21
Clover 0.040"x3"x3" Alum	10'	D	AK 24
Magnum 0.075"x3"x3" Post	12'	E	AJ 23
Steel 0.048"x3"x3" Lockseam	11'	F1	AK 24
Steel 0.048"x3"x3" Lockseam	10'	F2	AK 24
Steel 0.048"x3"x3" Lockseam	9'	F3	AK 24
Steel 0.048"x3"x3" Lockseam	8'	F4	AK 24
13Ga x3"x3" Steel Square	12'	G1	AF19
13Ga x3"x3" Steel Square	9'	G2	AF19
10Ga x3"x3" Steel Square	11'	H1	AF 19
10Ga x3"x3" Steel Square	10'	H2	AF 19
3/16"x3"x3" Steel Square	11'	I1	AF 19
3/16"x3"x3" Steel Square	9'	12	AF 19
3/16"x4"x4" Steel Square	15'	J1	AF 19
3/16"x4"x4" Steel Square	12'	J2	AF 19
3/16"x5"x5" Steel Square	15'	K1	AF 19
3/16"x5"x5" Steel Square	12'	K2	AF 19
3/16"x6"x6" Steel Square	15'	L	AF 19

Table 4.2



T	ABLE 4	.3																													M	AY	23 2	.023
Uplift	Const	traine	d d (in	1)																														
d (in)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
14	F1	G1	G1	G1	G1	G1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
15	F1	G1	G1	G1	G1	G1	H1	H1	11	. 11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
16	F1	G1	G1	G1	G1	G1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
17	F1	G1	G1	G1	G1	G1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
18	F1	G1	G1	G1	G1	G2	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
19	F1	G1	G1	G1	G1	G2	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
20	F1	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
21	F1	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	L								
22	F1	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	L	L	1								
23	F1	F2	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	_	L	L	L								
24	F1	F3	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L	-	L								
25 26	F1 F1	F1	F3	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	L	L		L							
27	F1	F1 F1	F4 G1	G1 G1	G1 G1	G1 G1	G1 G1	H1 H1	H1 H1	H1 H1	1 1	1 1	J1 J1	J1 J1	J1 J1	J1 J1	J1	J1	K1	K1	K1	K1	K1	L	-	-	1	0						
28	F1	G1	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1 J1	J1 J1	K1 K1	K1 K1	K1 K1	K1 K1	K1 K1	1	ı	1	1	0							
29	F1	G1	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	1	1	1	1	0							
30	F1	F2	G1	G1	G1	G1	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	1	1	1	1	0						
31	F1	F3	G1	G1	G1	G1	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	ī	1	ī	ī	0						
32	F1	F3	G1	G1	G1	G1	G2	H1	H1	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	Ĺ	0						
33	F1	F4	G1	G1	G1	G1	G2	H1	H1	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	0						
34	F1	F1	F1	F1	F1	F1	F2	F4	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	0
35	F1	F1	F1	F1	F1	F1	F2	G1	G1	G1	G1	G1	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	K1	L	L	L	L	0
36	F1	F1	F1	F1	F1	F2	F3	G1	G1	G1	G1	G2	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	K1	L	L	L	L	0
37	F1	F1	F1	F1	F1	F2	F3	G1	G1	G1	G1	G2	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	K2	L	L	L	L	0
38	F1	F1	F1	F1	F1	F2	F4	G1	G1	G1	G1	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	K2	L	L	L	L	0
39	F1	F1	F1	F1	F2	F3	F4	G1	G1	G1	G1	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	K1	K1	K1	K1	K1	K2	L	L	L	L	0
40	F1	F1	F1	F2	F2	F3	G1	G1	G1	G1	G2	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	K2	L	L	L	L	0
41	F1	F1	F1	F2	F3	F4	G1	G1	G1	G1	G2	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	L	0
42	F1	F1	F2	F2	F3	F4	G1	G1	G1	G1	G2	H1	H1	H1	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	L	0
43	F1	F2	F2	F3	F3	G1	G1	G1	G1	G2	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	L	0
44	F2	F2	F3	F3	F4	G1	G1	G1	G1	G2	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	L	0
45	F2	F3	F3	F4	F4	G1	G1	G1	G2	G2	H1	H1	H1	11	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	L	0
46	F3	F3	F3	F4	G1	G1	G1	G1	G2	G2	H1	H1	H2	11	11	J1	J2	K1	K1	K1	K1	K1	L	L	L	L	L	0						
47	F3	F3	F4	F4	G1	G1	G1	G2	G2	G2	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	K1	L	L	L	L	L	0
48	F3	F4	F4	G1	G1	G1	G1	G2	G2	H1	H1	H1	H2	11	11	J1	J1	J1	J1	J1	J1	J2	K1	K1	K1	K1	K1	K1	L	L	L	L	L	0
49	F4	F4	G1	G1	G1	G1	G2	G2	G2	H1	H1	H2	11	11	J1	J2	K1	K1	K1	K1	K1	K2	L	L	L	L	0	0						
50 51	F4 F4	F4 G1	G1 G1	G1	G1	G2	G2	G2	G2	H1	H1	H2	11	11	J1	12	K1	K1	K1	K1	K1	K2	-	L	L	L	0	0						
52	G1	G1	G2	G1	G2 G2	299	e	of 329	H1 H1	H1 H1	H2 H2	H2	1 1	J1	J1 J1	J1 J1	J1 J1	J1 J1	J1 J1	J1 J1	J2 J2	J2 J2	K1 K1	K1 K1	K1 K1	K1 K1	K1 K1	K2 K2	L	1	1	L	0	0
32	OI	01	UZ.	UZ	UZ.	UZ	UZ	UZ.	TIA	111	1.12	17	1.T	71	3.1	11	17	17) T	1T	JZ	12	VI	IV.T.	ΝŢ	K1	ΝŢ	NZ	L	L	L	-	U	U

Foam Core Sandwich Panels Spans for the 2021 IBC for Attached Structures Patio Cover Applications Only

			x3" (1								
Ground	Panel Skin	Wind	Speed	(mph) a	and Ex	posure					
Snow Load	Thickness	B115	B120	C095	C100	C105	C110	C120	C130	C140	C150
(psf)	(in)		Allowa	able Sp	ans (ft)						
Live 10	0.024	13.5'	13'	13.5'	13.5'	13'	12'	11'	10'	9'	8.5'
	w/ fan beam	14.5'	14.5'	14.5	14.5'	14'	13.5'	12'	11'	9.5'	8'
Snow 10	0.024	13.5'	13'	13.5	13.5'	13'	12'	11'	10'	9'	8.5'
	w/ fan beam	14.5'	14.5'	14.5	14.5'	14'	13.5'	12'	11'	9.5'	8'
20	0.024	10'	10'	10'	10'	10'	9.5'	9.5'	9'	8.5'	8.5'
	w/ fan beam	11'	11'	11'	11'	10.5	10.5	9.5'	9'	8.5'	8'
25	0.024	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'
	w/ fan beam	10'	10'	10'	10'	10'	10'	9.5'	9'	8.5'	8'
30	0.024	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'
	w/ fan beam	9.5'	9.5'	9.5'	9.5'	9.5'	9'	8.5'	8'	7.5'	7'
36	0.024	7'	7'	7'	7'	7'	7'	7'	7'	7'	7'
	w/ fan beam	8.5'	8.5'	8.5'	8.5'	8.5'	8'	7.5'	7.5'	7'	6.5'
42	0.024	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'
	w/ fan beam	7.5'	7.5'	7.5'	7.5'	7'	7'	7'	6.5'	6'	6'
50	0.024	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'
	w/ fan beam	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5
										Table	4.46

		0.024"	x4" (1	pcf)							
Ground	Panel Skin		-		and Exp	osure					
Snow Load	Thickness	B115	B120	C095	C100	C105	C110	C120	C130	C140	C150
(psf)	(in)		Allowa	ble Sp	ans (ft)						
Live 10	0.024	15.5'	15'	15.5'	15.5'	14.5'	14'	12.5'	11.5'	10.5'	10'
	w/ fan beam	16.5	16.5'	16.5	16.5'	16'	15'	13.5	12.5'	11.5'	11'
Snow 10	0.024	15.5'	15'	15.5'	15.5'	14.5'	14'	12.5'	11.5'	10.5'	10'
	w/ fan beam	16.5	16.5'	16.5'	16.5'	16'	15'	13.5'	12.5'	11.5'	11'
20	0.024	11.5'	11.5'	11.5'	11.5'	11.5'	11'	11'	10.5'	10'	10'
	w/ fan beam	12.5'	12.5'	12.5'	12.5'	12.5'	12'	12'	11.5'	11'	10.5
25	0.024	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5	10.5'	10'	10'
	w/ fan beam	11'	11'	11'	11'	11'	11'	11'	11'	111	10.5
30	0.024	10.5'	10.5'	10.5'	10.5	10.5'	10.5	10¹	10'	9.5'	9.5'
	w/ fan beam	11'	-11 ¹	11'	11'	11'	11'	11'	11'	10.5'	10'
36	0.024	9'	9'	9'	9'	9,	9'	9'	9'	9'	9'
	w/ fan beam	10'	10'	10'	10'	10'	10'	10'	10'	10'	9.5'
42	0.024	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8'
	w/ fan beam	9'	9'	9'	9'	9'	9'	9'	9'	8.5'	8.5'
50	0.024	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
	w/ fan beam	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'

		0.024"	x6" (1 p	cf)							
Ground	Panel Skin			(mph) a	and Exp	osure		71123		1.50	2512
Snow Load	Thickness	B115	B120	C095	C100	C105	C110	C120	C130	C140	C150
(psf)	(in)		Allowa	able Spa	ans (ft)						
Live 10	0.024	20'	20'	20'	20'	19.5'	19'	18'	17'	16.5'	15.5'
	w/ fan beam	20'	20'	20'	20'	19.5'	19'	18'	17'	16.5'	15.5'
Snow 10	0.024	20'	20'	20'	20'	19.5'	19'	18'	17'	16.5'	15.5'
	w/ fan beam	20'	20'	20'	20'	19.5'	19'	18'	17'	16.5'	15.5'
20	0.024	15'	15'	15'	15'	15'	14.5'	14'	14'	13.5'	13'
	w/ fan beam	15'	15'	15'	15'	15'	14.5'	14'	14'	13.5'	13'
25	0.024	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13'
	w/ fan beam	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13'
30	0.024	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13.5'	13'	12.5'	12.5'
	w/ fan beam	13.5'	13.5'	13.5	13.5	13.5	13.5	13.5	13'	12.5'	12.5'
36	0.024	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12'	11.5'
	w/ fan beam	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12'	11.5'
42	0.024	11.5'	11.5'	11.5'	11.5'	11.5	11.5'	11.5'	11.5'	11.5'	11'
	w/ fan beam	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11'
50	0.024	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'
	w/ fan beam	10.5'	10.5'	10.5'	10.5'	10.5'	10.5	10.5'	10.5'	10.5'	10.5'
										Table	e 4.48a

Commercia	Cover or Ca	rport	Applica	ations																															
			'x3" (1											0.024	"x4" (1	pcf)										0.024":	x6" (1 p	ocf)							
Ground	Panel Skin								-1.8			Ground	Panel Skin	Wind	Speed	(mph) a	and Exp	osure						Ground	Panel Skin	Wind	Speed	(mph) a	and Exp	osure				-	
Snow Load	Thickness	B115	B120	C095	C100	C105	C110	C120	C130	C140	C150	Snow Load	Thickness	B115	B120	C095	C100	C105	C110	C120	C130	C140	C150	Snow Load	Thickness	B115	B120	C095	C100	C105	C110	C120	C130	C140	C150
(psf)	(in)		Allowa	able Sp	ans (ft))						(psf)	(in)		Allowa	able Sp	ans (ft)							(psf)	(in)		Allowa	able Spa	ans (ft)						
Live 20	0.024	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8'	7.5'	7'	6.5'	Live 20	0.024	10'	10'	10'	10'	10'	10'	9.5'	9'	9'	8.5'	Live 20	0.024	13.5'	13'	13.5'	13.5'	13'	13'	12.5'	12'	11.5'	10.5'
	w/ fan beam	10'	10'	10'	10'	9.5	9.5'	9'	9'	8.5'	8'		w/ fan beam	11'	11'	11'	11'	11'	10.5'	10.5	10'	9.5'	9'		w/ fan beam	14'	14'	14'	14'	14'	14'	13.5'	12.5'	11.5'	10.5'
25	0.024	0'	0'	0'	0,	0'	0'	0'	0,	0'	0'	25	0.024	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	25	0.024	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	11.5'	10.5'
	w/ fan beam	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'		w/ fan beam	8.5'	8.5'	8.5'	8.5'	8.5'	8.5	8.5'	8.5'	8.5	8.5'		w/ fan beam	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	11.5'	10.5'
30	0.024	0'	0'	0,	0'	0'	0'	0'	0,	0,	0'	30	0.024	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	30	0.024	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	11.5'	10.5'
	w/ fan beam	7.5'	7.5'	7.5'	7.5'	7.5	7.5'	7.5'	7.5'	7.5'	7.5'		w/ fan beam	8.5'	8.5	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'	8.5'		w/ fan beam	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	12.5'	11.5'	10.5'
36	0.024	0'	0'	0'	0'	0,	0'	0'	0'	0'	0'	36	0.024	7'	7'	7'	7'	7'	7'	7'	7'	7'	7'	36	0.024	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	10.5'
	w/ fan beam	6.5'	6.5'	6.5'	6.5'	6.5	6.5'	6.5'	6.5'	6.5'	6.5'		w/ fan beam	7'	7'	7'	7'	7'	7'	7'	7'	7'	7'		w/ fan beam	11.5	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5'	11.5	10.5'
42	0.024	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	42	0.024	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	42	0.024	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'
	w/ fan beam	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	327	w/ fan beam	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'	6.5'		w/ fan beam	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'	10.5'
50	0.024	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	50	0.024	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	50	0.024	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'
	w/ fan beam	0'	0'	0'	0,	0'	0'	0'	0'	0'	0'		w/ fan beam	0'	0'	0'	0'	0'	0'	0'	0'	0,	0'		w/ fan beam	9.5'	9.5	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'	9.5'

Table 4.47a

Table 4.50a

United Duralume 350 S Raymond Ave Fullerton, CA Carl Putnam, P. E. 3441 Ivylink Place Lynchburg, VA 24503 carlputnam@comcast.net Table 4.49a

Notes

- 1. These tables are for use with the ICC ESR 2676 Detail I and the 2021 IBC and 2022 CBC
- 2. Panels w/ embedded fan beam may have fans/lights installed upt to 30 lbs.
- 3. Panels are as specified in ICC ESR 3779
- 4. These panel spans are for unenclosed patio cover, carports or commercial covers.
- 5. Attach to header and wall hanger as per Table 4.52a.
- 6. Wind speeds noted are "Basic Design Wind Speeds".

Digitally signed by Carl M Putnam

SSIONAL ENG

C68139

EXP. 6/30/2025

Date: 2023.05.24 09:38:44

-04'00'

Required Fastening of Foam Core Panels to Headers Wind Speed (mph) and Exposure Trib B115 | B120 | C095 | C100 | C105 | C110 | C120 | C130 | C140 | C150 Width (ft) O/C Spacing of #14 SM screws 12" 12" 12" 3 12" 11" 4 12" 12" 12" 12" 11" 10" 8" 5" 5 10" 11" 10" 9" 8" 4" 9" 8" 3" 6 8" 7" 7 7" 6" 3" 6" 6" 5" 6" 9 6" 6" 5" 4" 10 5" 5" 5" 11 5" 5" 4" 4" 12 4" 3" 3" 2" 13 4" 4" 2" 4" 4" 3" 3" 3" 4" 14 4" 3" 3" 3" 3" 2" 4" 3" 15 3"

Table 4.51a

Table 4.52a

	Panel	95 MI	PH EXF	В		100 N	/PH E	(PB		105 N	IPH EX	(PB		95 MF or 110		P C I EXP E	3		F. 15 1.5	IPH EX	XP C	3			105 M or 120		KP C EXP E	3		
Headers	Thickness	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6
	(in)	Numb	per of #	10 Sh	eet Me	tal Scr	rews R	equire	d per fo	ot at	Header	/Panel	Conn	ection																
Dble Headers	0.018	6'	MAX	MAX	MAX	5'	11'	MAX	MAX	5'	10'	MAX	MAX	4'	9'	MAX	MAX	MAX	4'	8'	MAX	MAX	MAX	MAX	3'	7'	10'	MAX	MAX	MAX
Single 3x8	0.018	3'	6'	9'	MAX	3'	5'	8'	11'	2'	5'	7'	10'	2'	4'	6'	9'	11'	2'	41	6'	8'	10'	MAX	2'	3'	5'	7'	9'	10'
All others	0.018	3'	6'	9'	MAX	3'	5'	8'	11'	2'	5'	7'	10'	2'	4'	6'	9'	11'	2'	4'	6'	8'	10'	MAX	2'	3'	5'	7'	9'	10'
Dble Headers	0.024	8'	MAX	MAX	MAX	7'	15'	MAX	MAX	7'	13'	MAX	MAX	6'	11'	MAX	MAX	MAX	5'	10'	MAX	MAX	MAX	MAX	5'	9'	14'	MAX	MAX	MAX
Single 3x8	0.024	4'	8'	12'	MAX	4'	7'	11'	15'	3'	7'	10'	13'	3'	6'	9'	11'	14'	3'	5'	8'	10'	13'	MAX	2'	5'	7'	9'	12'	14'
All others	0.024	4'	8'	12'	MAX	4'	7'	11'	15'	3'	7'	10'	13'	3'	6'	9'	11'	14'	3'	5'	8'	10'	13'	MAX	2'	5'	7'	9'	12'	14'
Dble Headers	0.032	11'	MAX	MAX	MAX	10'	MAX	MAX	MAX	9'	18'	MAX	MAX	8'	15'	MAX	MAX	MAX	7'	14'	MAX	MAX	MAX	MAX	6'	12'	MAX	MAX	MAX	MAX
Single 3x8	0.032	5'	11'	16'	MAX	5'	10'	15'	MAX	4'	9'	13'	18'	4'	8'	11'	15'	MAX	3'	7'	10'	14'	17'	MAX	3'	6'	9'	12'	16'	MAX
All others	0.032	5'	11'	16'	MAX	5'	10'	15'	MAX	4'	9'	13'	18'	4'	8'	11'	15'	MAX	3'	7'	10'	14'	17'	MAX	3'	6'	9'	12'	16'	MAX
Dble Headers	0.038	12'	MAX	MAX	MAX	11'	MAX	MAX	MAX	10'	MAX	MAX	MAX	8'	17'	MAX	MAX	MAX	7'	15'	MAX	MAX	MAX	MAX	7'	14'	MAX	MAX	MAX	MAX
Single 3x8	0.038	6'	12'	MAX	MAX	6'	11'	17'	MAX	5'	10'	15'	MAX	4'	9'	13'	18'	MAX	4'	8'	12'	16'	MAX	MAX	4'	7'	11'	14'	18'	MAX
All others	0.038	6'	13'	MAX	MAX	6'	12'	17'	MAX	5'	10'	16'	MAX	5'	9'	14'	MAX	MAX	4'	8'	12'	16'	MAX	MAX	41	7'	11'	15'	MAX	MAX

Table 4.44a Maximum Tributary Width for Each Header/Panel Combination and Number of #10 Sheet Metal Screws

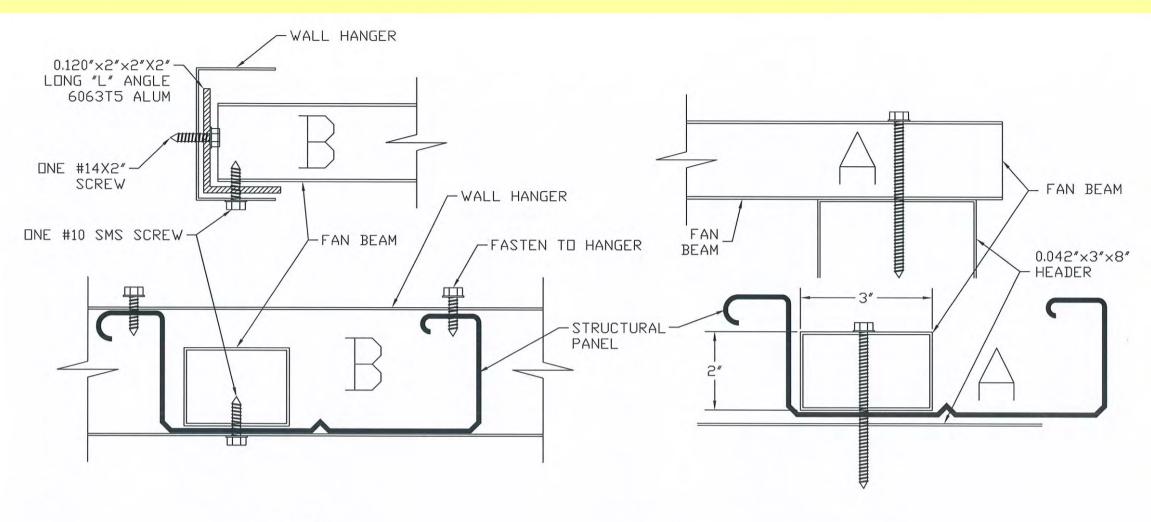
	Panel	95 MF	H EX	РВ		100 N	MPH EX	(PB		105 N	IPH EX	PB			PH EX	P C EXP E	3		1.00	IPH EX 5 MPH		3			100000000000000000000000000000000000000	IPH EX		3		
Headers	Thickness	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6
	(in)	Numb	er of #	14 She	eet Me	tal Sc	rews R	equirec	per fo	ot at	Header	/Pane	l Conn	ection																
Dble Headers	0.018	MAX	MAX	MAX	MAX	11'	MAX	MAX	MAX	10'	MAX	MAX	MAX	9'	MAX	MAX	MAX	MAX	8'	MAX	MAX	MAX	MAX	MAX	7'	MAX	MAX	MAX	MAX	MAX
Single 3x8	0.018	6'	MAX	MAX	MAX	6'	11'	MAX	MAX	5'	10'	MAX	MAX	4'	9'	MAX	MAX	MAX	4'	8'	MAX	MAX	MAX	MAX	4'	7'	11'	MAX	MAX	MAX
All others	0.018	6'	MAX	MAX	MAX	6'	11'	MAX	MAX	5'	10'	MAX	MAX	4'	9'	MAX	MAX	MAX	4'	8'	MAX	MAX	MAX	MAX	4'	7'	11'	MAX	MAX	MAX
Dble Headers	0.024	MAX	MAX	MAX	MAX	14'	MAX	MAX	MAX	13'	MAX	MAX	MAX	11'	MAX	MAX	MAX	MAX	10'	MAX	MAX	MAX	MAX	MAX	9'	MAX	MAX	MAX	MAX	MAX
Single 3x8	0.024	8'	MAX	MAX	MAX	7'	15'	MAX	MAX	7'	13'	MAX	MAX	6'	12'	MAX	MAX	MAX	5'	10'	MAX	MAX	MAX	MAX	5'	9'	14'	MAX	MAX	MAX
All others	0.024	8'	MAX	MAX	MAX	7'	15'	MAX	MAX	7'	13'	MAX	MAX	6'	12'	MAX	MAX	MAX	5'	10'	MAX	MAX	MAX	MAX	5'	9'	14'	MAX	MAX	MAX
Dble Headers	0.032	16'	MAX	MAX	MAX	14'	MAX	MAX	MAX	13'	MAX	MAX	MAX	11'	MAX	MAX	MAX	MAX	10'	MAX	MAX	MAX	MAX	MAX	9'	18'	MAX	MAX	MAX	MAX
Single 3x8	0.032	8'	16'	MAX	MAX	7'	15'	MAX	MAX	7'	13'	MAX	MAX	6'	12'	17'	MAX	MAX	5'	10'	16'	MAX	MAX	MAX	5'	9'	14'	MAX	MAX	MAX
All others	0.032	11'	MAX	MAX	MAX	10'	MAX	MAX	MAX	9'	18'	MAX	MAX	8'	15'	MAX	MAX	MAX	7'	14'	MAX	MAX	MAX	MAX	6'	13'	MAX	MAX	MAX	MAX
Dble Headers	0.038	16'	MAX	MAX	MAX	14'	MAX	MAX	MAX	13'	MAX	MAX	MAX	11'	MAX	MAX	MAX	MAX	10'	MAX	MAX	MAX	MAX	MAX	9'	18'	MAX	MAX	MAX	MAX
Single 3x8	0.038	8'	16'	MAX	MAX	7'	15'	MAX	MAX	7'	13'	MAX	MAX	6'	12'	17'	MAX	MAX	5'	10'	16'	MAX	MAX	MAX	5'	9'	14'	MAX	MAX	MAX
All others	0.038	13'	MAX	MAX	MAX	12'	MAX	MAX	MAX	11'	MAX	MAX	MAX	9'	MAX	MAX	MAX	MAX	8'	16'	MAX	MAX	MAX	MAX	7'	15'	MAX	MAX	MAX	MAX

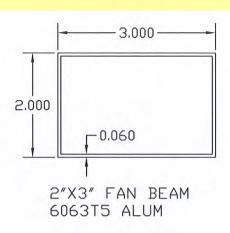
Table 4.45a Maximum Tributary Width for Each Header/Panel Combination and Number of #14 Sheet Metal Screws

United Duralume 350 S Raymond Ave Fullerton, CA Carl Putnam, P. E. 3441 Ivylink Place Lynchburg, VA 24503 (434) 384-2514 carlputnam@comcast.net

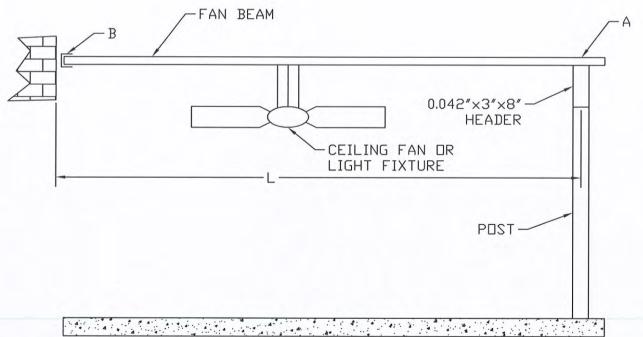


| ound Snow | w Load: | g 0 | | footing "d" | ve Lo | ad: 10 | ooting "d"
 | R | | sign Loa | ad 16 | psf
 | Win
cubic footing | | ed: 95 M | Cubic foot |
 | r 115 MP | H EXPOSI | | |
 | ic Ss= 1. | 50% | | eismic
 | | n Cat | egory | | Struc | |
 | | d to Ex | | Build |
|--|---|--|--|--|--|--
--	--	---	---
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	---	--
--			
	Table 5.2a	trib N	n Uplift
 | | Min Uplift | Constraine
Footing (in | n) trib |
 | Const
Oplift Footi | trained
ing (in) | trib Min | Uplift F | onstrained
ooting (in)
 | | Uplift | Constrained
Footing (in) | | in Uplift
 | Constrained
Footing (in) | | Min Up | Con
olift Foo
 | strained
oting (in) | | Ain Uplift | footing "d"
Constrained
Footing (in) | trib | Min U | plift Fo
 | onstrained
ooting (in) | | uplift | Constra |
| | Detail | 3' Ty | e (in) | Max Post Length
8' 10' 12 | 3.5 | | Max Post Length
8' 10' 12'
 | 4' | | Max Post Leng
8' 10' | |
 | ooting Max Po
(in) B' 1 | st Length
10' 12' | | Footing Ma
(in) 8 | 10' 12'
 | 5.5' Type | Footing M
(in) 8' | lax Post Length
10' 12' | 6' Ty | st Footing
pe (in)
 | Max Post Length
8' 10' 12 | | Post Fool | oting Max P
 | ost Length
10' 12' | 7' Ty | ost Footing
ype (in) | Max Post Lengt | | Post Fo | onling Man
(in) 8'
 | x Post Length
10' 12' | 8' Typ | e (in) | Max Post
8' 10' |
| 8 ⁿ | On Slab | 22'-8"
12'-5" | | 17 10 10 | 19'-5" | В | 40 40 30
 | 17'-0" | | | 15'-1 |
 | | | 3'-7" B | 20 22 | 22 23
 | 12'-4" B | | | 11'-4" B | | |
 | | 27.7 | |
 | | 9'-8" | - | | 9'-1" | |
 | | 8'-6" B | | |
| 3" | M | 18'-2" | | 17 18 19
19 20 21 | | | 18 19 20
19 20 21
 | 15'-5" | | 19 20
19 20 | |
 | 23 19 2 | | 9'-2" A
3'-9" B | | 21 22
 | 8'-7" A
13'-0" C1 | | 21 22 | 8'-Z" B |
 | 21 22 2 | | | 24 21
 | | 7'-5" | | 21 23 2 | | |
 | 23 24 | | | 22 23 |
| 0"x2"x6.5" | K | 16'-0" | 24 | 18 19 20 | 14'-8" | B 24 | 18 19 20
 | 13'-8" | | 19 20 | |
 | 25 19 2 | | 2'-2" B | | 21 22
 | 11'-7" B | 26 20 | 21 22 | 11'-0" B | 26
 | 21 22 2 | 10'-6" | B 2 | 27 21
 | 22 23 | 10'-2" | C1 27 | 21 23 2 | 24 9'-9" | C1 | 27 22
 | 23 24 | 9'-4" C | | 22 23 |
| 3" | 1 | 14'-8" | 23 | 18 19 19 | 13'-5" | A 23 | 18 19 20
 | 12'-5" | B 24 | 19 20 | |
 | 24 19 2 | | 1'-1" B | 25 20 | 21 22
 | 10'-5" B | 25 20 | 21 22 | 9'-11" B | 25
 | 21 22 2 | 9'-5" | B 2 | 26 21
 | 22 23 | 9'-1" | B 26 | 21 23 2 | 24 8'-8" | В | 26 22
 | 23 24 | 8'-4" B | 26 | 22 23 |
| 18"x3"x8"
/ Insert | W | 21'-2" | 26 | 19 20 21 | 19'-5" | B 26 | 20 21 22
 | 18'-1" | C1 27 | 20 21 | |
 | 27 20 2 | | 6'-2" CZ | 28 20 | 22 23
 | 15'-4" C2 | 28 21 | 22 23 | 14'-7" C | | |
 | 21 22 2 | 13'-11" | |
 | 22 23 | 13'-6" | | 21 23 2 | | |
 | 23 24 | 12'-6" C | | 22 23 |
| scia #1 | U | 15'-11" | 24 | 18 19 20 | 14'-7" | B 24 | 18 19 20
 | 13'-6" | | 19 20 | 22 22.71 |
 | 25 19 7 | | 2'-1" B | | 21 22
 | 14'-11" C2 | 26 20 | 22 23 | 10'-10" B | 2 29
 | 21 22 2 | 3 13'-6" | B 2 |
 | 22 23 | 10'-0" | C2 29 | 21 23 2 | 24 12'-6" | C2 | 29 22
 | 23 24 | 12'-0" C | | 22 23 |
| scia #2 | V | 14'-2" | 23 | 17 18 19 | 13'-1" | A 23 | 18 19 20
 | 12'-2" | B 24 | | | " В
 | 24 19 2 | 20 21 1 | 1'-0" B | 25 20 | 21 22
 | 10'-5" B | 25 20 | 21 22 | 9'-11" B | 25
 | 21 22 2 | 9'-6" | B 2 | 26 21
 | 22 23 | 9'-3" | B 26 | 21 23 2 | 24 8'-11" | В | 26 22
 | 23 24 | 8'-7" C | | 22 23 |
| | N | 22'-0" | 26 | 19 21 22 | 19'-9" | | 20 21 22
 | 17'-11" | | 20 21 | |
 | 27 20 2 | | | | 21 23
 | 14'-6" C2 | | 22 23 | 13'-7" C | | |
 | 21 22 2 | | |
 | 22 23 | 12'-3" | | 21 23 2 | | |
 | 23 24 | - | | 22 23 |
| | N
N | 38'-5" | 2 28 | 20 22 23 | 23'-9" | | 21 22 23
 | 21'-8" | | 21 22 23 24 | |
 | 29 21 2 | | 8'-11" C2 | | 23 24
25 26
 | 17'-8" C2 | 30 21 | | 16'-7" C | | |
 | 22 23 2 | - | |
 | 23 24 | 15'-0" | C2 31 | 22 23 2 | _ | C2 |
 | | 13'-7" C | | 22 23 |
| Steel C | 5 | 37'-1" | 31 | 22 24 25 | | | 23 24 25
 | - | | 23 24 | |
 | 33 23 2 | | 8'-6" D | 34 24 | 25 26
 | 27'-0" D | 34 24 | 25 26 | 25'-9" | 34
 | 24 25 2 | 7 23'-10" | D 3 | 35 24
35 24
 | 26 27 | 22'-11" | D 35 | 24 26 2 | 27 22'-11" | F | 36 25
 | 26 27 | 20-11' L | | 25 26 |
| Steel C | 5 | 40'-0" | 32 | 23 24 25 | 39'-3" | C2 33 | 23 25 26
 | 36'-6" | D 34 | 24 25 | _ | " D
 | 35 24 2 | 26 27 32 | '-10" D | 36 25 | 26 27
 | 31'-2" D | 36 25 | 26 28 | 29'-9" E | 37
 | 25 27 21 | 28'-6" | E 3 | 37 25
 | 27 28 | 27'-8" | E 38 | 26 27 2 | 28 26'-7" | F1 | 38 26
 | 27 29 | 25'-8" F: | | 26 28 |
| Steel C | 5 | 40'-0" | 32 | 23 24 25 | 40'-0" | C2 34 | 24 25 26
 | 40'-0" | D 35 | 24 26 | |
 | 37 25 2 | | 0'-0" F1 | | 27 29
 | 40'-0" F1 | | 5 28 29 | 39'-9" F | 1 40
 | 27 29 30 | 38'-1" | F1 4 | | | |
 | 29 30 | 37'-0" F | F1 41 | 28 29 3 | _ | F1 |
 | 29 31 | | | 28 30 |
| leaf
overleaf | AU | 13'-10" | 22 | 17 18 19
19 20 21 | - | | 18 19 20
19 21 21
 | | | 19 20
20 21 | _ |
 | 24 19 2 | | 0'-3" B
5'-7" C2 | | 21 22
 | 9'-7" B | 24 20 | 21 22 | 9'-1" B | 25
 | 21 22 2 | 8'-8" | B 2 | | | |
 | 22 23 | 8'-4" | B 25 | 21 23 2 | - | В |
 | 23 24 | | | 22 23 |
| ovenear | P | 8'-2" | 19 | 17 18 19 | - | | 18 19 20
 | 7'-7" | | 19 20 | |
 | 27 20 2 | | 5'-7" C2 | | 21 23
21 22
 | 14'-9" C2
7'-0" A | 28 21 | 22 23 | 6'-10" A | 2 28
 | 21 22 2 | 3 13'-6" | | 29 21
 | 22 23 | 6'-7" | C2 29 | 21 23 2 | | |
 | 23 24
23 24 | 12'-3" C. | 30 | 22 23 |
| | Q | 16'-3" | 24 | 18 19 20 | 15'-6" | B 25 | 18 20 21
 | 15'-1" | | 19 20 | |
 | 26 19 2 | | | | 21 22
 | 13'-11" C2 | | 21 22 | |
 | 21 22 2 | | | 29 21
 | | 13'-2" | | 21 23 2 | | |
 | | 12'-8" C | 30 | 22 23 |
| | R | 21'-3" | | | | | 20 21 22
 | - | | 20 22 | |
 | | | | | 22 24
 | 18'-3" C2 | 30 22 | | 17'-10" C | 2 31
 | 22 23 2 | | C2 3 | 31 22
 | 24 25 | 17'-3" | C2 32 | 23 24 2 | 25 16'-10" | C2 | 33 23
 | 24 25 | 16'-8" C | 33 | 23 25 |
| | Т | 23'-11" | | 20 21 22 | The Real Property lies | The second | 20 22 23
 | - PERSON | CO 25 19 1 | 21 22 | |
 | 30 21 7 | | | | 23 24
 | The same of the sa | 31 22 | 2 24 25 | 20'-0" C | 2 32 | 23 24 2
 | - | CZ 3 | 33 23 |
 | 19'-4" | | 23 25 2 | _ | -20 | | 25 26
 | 18'-8" C | 34 | 24 25 |
| | | trib IV | | Footing (in)
Max Post Length | trib | Min Uplift
Post Footing | Footing (in)
Max Post Length
 | | Min Uplift | Footing (in
Max Post Leng | |
 | Iplift Footi ooting Max Po | | trib Min | | ooting (in)
 | trib Min | - ferrie | Footing (in) | trib M | - Print
 | Footing (in) | | Min Up | 0.00
 | oting (in) | 150.00 | Ain Uplift | Footing (in) | | Min U | P. C. C.
 | ooting (in) | United | Durel | |
| | Detail | 9' Ty | | 8' 10' 12' | 10' | Type (in) | 8' 10' 12'
 | | Type (in) | 8' 10' | |
 | (in) 8' 1 | | 13' Type | Footing Ma
(in) 8' | 10' 12'
 | | Footing M
(in) 8' | ax Post Length | |
 | Max Post Length
8' 10' 12 | | Type (in | oting Max in) 8'
 | 10' 12' | 17' Ty | | Max Post Lengt | | | |
 | 20 Post Length
10' 12' | | Duralum
avmond | |
| | On Slab | 7'-6" | | | 6'-9" | В |
 | 6'-2" | | | 5'-8' | В
 | | 5 | i'-2" B | |
 | 4'-10" B | - North | | 4'-6" B | 3/
 | | 4'-3" | В | | | |
 | | 4'-0" | В | | 3'-9" | В |
 | | Fullerto | | 17.15 |
| | L
M | 6'-3" I | 25 | 23 24 25 | | | 23 25 26
 | | | 24 25 | _ | | |
 | 26 25 2 | | 1'-9" B | |
 | 4'-6" B | | | |
 | 26 28 2 | | B 2 |
 | 28 29 | | | 27 28 3 | | |
 | 29 30 | | | - |
| 0"x2"x6.5" | K | 8'-10" | 29 | 23 24 25 | - | | 23 25 26
23 25 26
 | | | 24 25 | |
 | 30 25 2
29 25 2 | | "-9" C2 | | 27 28
 | 7'-5" C2
6'-9" C2 | | 5 27 28
5 27 28 | _ | | |
 | 26 28 25 | | |
 | 28 29 | 6'-6" | C2 31
C2 30 | 27 28 3
27 28 3 | _ | |
 | 29 30
29 30 | | tnam, P.
/link Plac | |
| NZ X0.5 | - 1 | 7'-10" | | 23 24 25 | | | 23 25 26
 | _ | | 24 25 | |
 | 28 25 2 | | | | 27 28
 | 5'-10" C2 | | 27 28 | 5'-7" C | 2 28
 | 26 28 2 | | C2 2 | 29 26
 | 28 29 | - | C2 29 | 27 28 3 | | |
 | 29 30 | | urg. VA | |
| 8"x3"x8" | М | 11'-9" | 31 | 23 24 25 | 11'-0" | C2 31 | 23 25 26
 | 10'-6" | CZ 32 | 24 25 | 27 9'-11 | " C2
 | 32 25 2 | 26 27 9 | 1'-6" C2 | 32 25 | 27 28
 | 9'-1" C2 | | 27 28 | 8'-9" C | 2 33
 | 26 28 2 | 8'-4" | C2 3 |
 | 28 29 | 8'-1" | 2 33 | 27 28 3 | 30 7'-9" | D | 34 27
 | 29 30 | | am@con | |
| Insert | W | 11'-3" C | 30 | 23 24 25 | 10'-6"
8'-1" | C2 31 | 23 25 26
23 25 26
 | 9'-11" | C2 31 | 24 25 | |
 | | | 1'-0" C2 | | 27 28
 | 8'-6" C2 | | 27 28 | 8'-2" C | | |
 | 26 28 2 | | |
 | 28 29 | | C2 33 | 27 28 3 | _ | |
 | 29 30 | - | | |
| icia #2 | V | 8'-2" | 28 | 23 24 25 | _ | | 23 25 26
23 25 26
 | 7'-8" | | 24 25
24 25 | |
 | 29 25 2 | | | | 27 28
27 28
 | 6'-8" C2 | | 27 28 | 6'-4" C | 2 30
 | 26 28 2 | 6'-1" | C2 3 | 30 26
 | 28 29 | | C2 30 | 27 28 3
27 28 3 | | |
 | 29 30
29 30 | - | | |
| WID HE | N | 10'-1" | 29 | 23 24 25 | 9'-0" | C2 29 | 23 25 26
 | | | 24 25 | |
 | 29 25 2 | | | | 27 28
 | 6'-5" C2 | | 5 27 28 | 6'-0" C | 2 29
 | 26 28 2 | 5'-8" | C2 2 | 29 26
 | 28 29 | | C2 29 | 27 28 3 | 30 5'-0" | |
 | 29 30 | 1 | | |
| | N | 12'-7" (| 31 | 23 24 25 | 11'-7" | C2 32 | 23 25 26
 | 10'-10" | C2 32 | 24 25 | 27 10'-2 |
 | 32 25 2 | | | | 27 28
 | 8'-8" C2 | | 27 28 | | | |
 | 26 28 2 | | |
 | 28 29 | 7'-2" | | 27 28 3 | | |
 | 29 30 | 1 | | |
| 617.18 | N | 19'-6" | 36 | 25 26 28 | - | | 25 27 28
 | | | 25 27 | _ |
 | 37 26 2 | | 5'-4" F1 | 38 26 | 27 29
 | 14'-6" F1 | 38 26 | 5 27 29 | 13'-11" F | | |
 | 26 28 2 | _ | F1 3 |
 | 28 29 | 12'-9" F | F1 39 | 27 28 3 | _ | |
 | 29 30 | 1 | | |
| Steel C
Steel C | 5 | 20'-10" F | 37 | 25 27 28
26 28 29 | _ | E 38 | 26 27 28
 | 18'-8"
21'-10" | | 26 28
27 29 | |
 | 39 26 2
41 27 2 | 28 29 1 | 7'-0" F1 | 39 26 | 28 29
 | 16'-3" F1 | 40 27 | 7 28 30
3 29 31 | 15'-8" F: | | |
 | 27 28 30 | 15'-1" | F1 4 |
 | 29 30
30 31 | 14'-7" F | F1 41 | 27 29 3 | | |
 | 29 30 | 1 | | |
| Steel C | 5 | 32'-7" F | 43 | 28 30 32 | 30'-10" | F1 44 | 29 30 32
 | 29'-6" | F2 45 | | 32 28'-1 |
 | 45 29 3 | 31 33 2 | 7'-1" F2 | 46 30 | 32 33
 | 26'-0" F2 | 46 30 | 32 33 | 25'-2" F: | 1 42
 | 30 32 3 | 24'-4" | F3 4 | | | |
 | 30 31 | 23'-8" F | | 29 30 3 | _ | |
 | 30 32
33 34 | 1 | | |
| eaf | 1 | 7'-1" | 26 | 23 24 25 | 6'-7" | B 26 | 23 25 26
 | 6'-3" | B 27 | 24 25 | |
 | 27 25 2 | 26 27 5 | '-7" C1 | 27 25 | 27 28
 | 5'-4" C1 | 27 26 | 27 28 | 5'-1" C | | |
 | 26 28 2 | | |
 | 28 29 | 4'-8" | | 27 28 3 | | |
 | 29 30 | 1 | | |
| overleaf | AU | 11'-7" (| 31 | 23 24 25 | 10'-11" | C2 31 | 23 25 26
 | | | 24 25 | _ |
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 | 9'-3" C2 | 33 26 | 5 27 28 | 8'-11" C | 2 33
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 | | 8'-5" | D 34 | 27 28 3 | _ | |
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 | 28 29 | 4'-10" C | | 27 28 3 | | |
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| | | 16'-2" | | 24 25 26 | | | 24 26 27
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| | - | 18'-2" | 35 | 25 26 27 | 17'-8" | F 36 | 25 26 28
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 | | 17 20 11 | 6'.7" E1 | | 79 70
 | 16'-3" F1 | | | | | | |
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| d Snov | | g 0 | cub | footing "d"
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 | Design of the strained | 10000 | cubic | footing "d"
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| d Snov | w Load: | 0 p | cub
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| id Snov | V Load: Table 5.2b Detail | g 0 | cub
n Uplift | footing "d" Constrained Footing (in) | ve Lo: | cubic | ooting "d"
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| | V Load: Table 5.26 Detail | 0 p | cub
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se (in) | footing "d" Constrained Footing (in) Max Post Length 8' 10' 12' | trib 3.5' 19'-5" | cubic Min Uplift Post Footing Type (in) C1 | coting "d" Constrained Footing (in) Max Post Length 8' 10' 12'
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17'-0" | Min Uplift Post Footing Type (in) | Constraine Footing (in Max Post Leng 8' 10' | ad 16 ed trib gth 12' 4.5' 15'-1 | Min U Post Fo Type " C1
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trib Min
Post
5' Type
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| | Table 5.2b Detail On Slab | 0 p | cub
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t Footing
se (in) | footing "d" Constrained Footing (in) Max Post Length 8' 10' 12' | trib 3.5' 19'-5" 11'-1" | Min Uplift Post Footing Type (in) C1 A 19 | coting "d" Constrained Footing (in) Max Post Length 8' 10' 12'
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ic footing "d"
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8' 10' | ad 16 ed i) trib gth 12' 4.5' 15'-1 27 9'-6' | Min U Post Fo Type " C1
 | cubic footing 'Const Uplift Footing Max Po (in) 8' 1 20 24 2 | rd Spece ("d" trained ing (in) st.Length 10' 12' 1:25 26 8' | ed: 95 Min Post 5' Type 3'-7" C1 -11" A | cubic foot Cuplift F Footing Ma (in) 8' | constrained cooting (in) ix Post Length 10' 12'
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5.5' Type
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e (in) | Construction Footing Max Post 8' 10 |
| | V Load: Table 5.2b Detail | 0 p | cub
n Uplift
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se (in) | footing "d" Constrained Footing (in) Max Post Length 8' 10' 12' | trib 3.5' 19'-5" | Min Uplift Post Footing Type (in) C1 A 19 B 22 | coting "d" Constrained Footing (in) Max Post Length 8' 10' 12'
 | trib
4'
17'-0" | Min Uplift Post Footing Type (in) C1 A 20 | Constraine Footing (in Max Post Leng 8' 10' | ad 16 ed trib gth 12' 4.5' 15'-1 27 9'-6' 29 14'-2 | Min U Post Fo Type " C1 A " B
 | Coust Cooting Const Polift Footing Max Polifin 8' 1 | rd Spec
"d" trained ling (in) sstlength 10' 12' 125 26 8' 28 29 1: | ed: 95 M trib Min Post 5' Type 3'-7" C1 -11" A 3'-4" B | cubic foot Cuplift F Footing Ma (in) 8' 20 23 23 26 | osure coing "d" constrained cooting (in) ax Post Length 10' 12' 25 26 27 29
 | trib Min
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5.5' Type
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 | c Designation of the control of the | trib M
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(in) 8' | ting "d" Constrained Footing (in) ax Post Length 10' 12'
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8' 10 |
|)"x2"x6.5" | N Load: Table 5.2b Detail On Slab L M K | 0 p | cub n Uplift t Footing se (in) 19 21 | Constrained Footing (in) Max Post Length 8' 10' 12' 25 27 28 28 29 31 | trib 3.5' 19'-5" 11'-1" 16'-4" | Min Uplift Post Footing Type (in) A 19 B 22 B 21 | ooting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30
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4'
17'-0" | Min Uplift Post Footing Type (in) C1 A 20 | c footing "d" Constraine Footing (in Max Post Leng 8' 10' 24 25 27 28 24 26 | ad 16 di n) trib gth 12' 4.5' 15'-1 27 9'-6' 29 14'-2 27 12'-7 | Min U Post Fo Type " C1 " A " B
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5.5' Type
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27 10'-8"
25 9'-7" | Min U Post Fo Type C1 B C2 C1 | Uplift For potting Main (in) 8' 21 22 25 24 24 22 | ting "d" Constrained Footing (in) ax Post Length 10' 12' 23 24 26 27 24 25
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| ""x2"x6.5"
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 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" | Min Uplift Footing Type (in) C1 A 20 B 22 B 21 B 21 C1 24 | Sign Local Cooting "d" Constrainte Front Front Front Front Front Front Leng 8' 10' 24 25 27 28 24 26 25 27 28 29 | ad 16 bd trib gth 12' 4.5' 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 | Min U Post Fo Type 1 C1 A B B B B C2
 | Const Const | trained ling (in) st.Length (10' 12' 12' 12' 12' 12' 12' 12' 12' 12' 12 | ed: 95 Min Post 5' Type 3'-7" C1 -11" A B 1'-10" B 0'-9" B 5'-9" C2 | Cubic foot Cubic foot Uplift F Footing Ma (in) 8' 20 23 23 26 22 24 22 24 24 27 | OSURE C ing "d" constrained footing (in) ix Post Length 10' 12' 25 26 27 29 25 26 26 27 28 30 | trib Min Post 5.5' Type 12'-4" C1 8-6" B 12'-10" C1 11'-5" B 10'-3" B 15'-2" C2
 | cubic foo (Uplift Footing M (in) 8' 21 23 24 25 23 23 22 24 25 27 | ting "d" Constrained Footing (in) lax Post Length 10' 12' 3 24 25 5 27 28 3 25 26 4 25 27 7 28 29 | trib M. Poi 11'-4" (C. 8'-0" B 12'-2" C 10'-10" B 9'-9" B 14'-5" C | cubic cubic fin Uplift Footing pe (in) 1 1 24 3 23 3 22 2 25 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12 23
24 2: 25 27 27 23 25 27 24 25 21 26 28 2: | trib 10' 6.5' 10'-5" 5 7'-7" 3 11'-7" 5 10'-4" 5 9'-4" 9 13'-9" | Min Up
Post Foo
Type (ii
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B 2
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12' 7.5'
9'-1"
24 6'-11"
27 10'-8"
25 9'-7"
26 8'-6" | Min U Post Fo Type C1 B C2 C1 B | Delift Formation Mail (in) 8' 21 22 25 24 24 22 23 23 | constrained cooting (in) as Post Length 10' 12' 23 24 26 27 24 25 27 28 | trib M Por 8' Tyr 8'-6" C 6'-7" E 10'-3" C 9'-2" C 8'-2" E 12'-3" C | cubic f n Uplift Footing e (in) 21 25 24 23 26
 | Construction of the constr |
| "x2"x6.5"
"x3"x8"
Insert | V Load: Table 5.2b Detail On Slab L M K L M W | trib M 3' Ty 22'-8" C 12'-1" / 17'-9" 1 15'-8" 1 20'-9" 1 20'-6" | cub n Uplift t Footing ne (in) 19 21 21 20 23 | Conting "d" Constant Footing (in) Max Post Length 8' 10' 12' 25 27 28 28 29 31 25 27 28 26 28 29 30 32 27 29 30 32 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" | A 19 B 22 B 21 A 20 B 23 B 23 | Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 27 28 26 27 28 30 31 27 28 30
 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" | Min Uplift Footing (in) C1 A 20 B 22 B 21 C1 24 C1 23 | Sign Loc
 Cooting "d"
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 Max Post Leng
 8" 10"
 24 25
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 24 26
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 26 28 | ad 16 dd 16 trib gth 12' 4.5' 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 29 16'-4 | Min U Post Fo Type " C1 A B B B C2 " C2
 | Constitution Constitution | rained (in) (in) (in) (in) (in) (in) (in) (in) | ed: 95 Min Post 5' Type 5' Type 11' A 3'-4" B 15'-10' B 55'-9" C2 55'-4" C2 | Cubic foot Cubic foot Uplift F Footing Max (in) 8' 20 23 23 26 22 24 22 24 24 27 24 25 | OSURE C ing "d" constrained cooting (in) ix Post Length 10' 12' 25 26 27 29 25 26 26 27 28 30 27 28
 | trib Min Post Type 12'-4" C1 8'-6" B 10'-3" B 10'-3" C2 14'-9" C2 14'-9" C2 | cubic foo Uplift Footing M (in) 8' 21 23 24 25 23 23 22 24 25 27 25 25 | ting "d" Constrained Footing (in) lax Post Length 10' 12' 3 24 25 5 27 28 3 25 26 3 25 27 7 28 29 5 26 28 | trib M 6' Tyi 11'-4" C 8'-0" E 12'-2" C 10'-10" E 9'-9" E 14'-5" C 14'-0" C | Seism cubic in Uplift st Footing pe (in) 1 3 21 1 24 3 23 3 22 2 25 2 25
 | footing "d" Constrained Footing (in) Max Post Length 8' 10' 12 23 24 2: 25 27 2: 23 25 27 24 25 26 26 28 2: 25 26 2 | trib 10.5' 10.5' 10.5'' 5 7'-7'' 8 11'-7'' 5 10'-4'' 5 9'-4'' 9 13'-9'' 7 13'-4'' | Min Up
Post Foo
Type (ii
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B 2
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C2 2 | Conting Conting Conting Max I Conting Conting Conting Conting Max I Conting Co | C Designation of the control of the | trib M P 7' Ty 9'-8" C 7'-3" 11'-1" C 9'-11" C 8'-11" 13'-2" C 12'-9" C | cubic fin Uplift Footing ype (in) C1 B 21 C2 24 C1 23 B 23 C2 26 C2 25
 | footing "d" Constrained Footing (in) Max Post Lengti 8" 10' 1; 22 23 2 25 26 2 23 24 2 23 25 26 2 23 27 2 26 27 2 24 26 2 | trib
tth
12' 7.5'
9'-1"
24 6'-11"
27 10'-8"
25 9'-7"
26 8'-6"
28 12'-8"
27 12'-3" | Min U Post Fo Type C1 B C2 C1 B C2 C1 C2 C2 | Uplift For Dooring Mai (in) 8' 21 22 25 24 22 23 23 26 25 24 24 | ting "d" Constrained Cooting (in) sax Post Length 10' 12' 23 24 26 27 24 25 24 25 27 28 25 26 | trib M Por 8' Tyr 8'-6" C 6'-7" B 10'-3" C 9'-2" C 12'-3" C 11'-9" C
 | cubic fin Uplift Footing e (in) 21 25 24 23 26 26 | Constr Footin Max Post 8' 10' 22 2: 24 2: 22 2: 25 2: 25 2: 24 2: |
| "x2"x6.5"
5"x3"x8"
Insert | V Load: Table 5.2b Detail On Slab L M K L M W U | trib M 3' Tv 22'-8" C 12'-1" / 17'-9" 1 15'-8" 1 14'-4" / 20'-9" 2 15'-7" 1 | cub n Uplift t Footing (in) 1 19 21 21 20 23 22 21 | Cooking "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 27 28 28 29 31 26 28 29 30 32 27 29 30 24 26 27 27 28 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" | Ad: 10 cubic Min Uplift Footing Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 23 | cotting "d" Constrained Footling (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26
 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" | Min Uplift Footing Type (in) A 20 B 22 B 21 C1 24 C1 23 B 21 B 21 | Sign Loc clooting "d" Constraine Footing (in Max Post Leng 8' 10' 24 25 27 28 24 26 25 27 28 29 26 28 23 25 | ad 16 ad 16 bd trib gth 12' 4.5' 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 29 16'-4 26 12'-5 | Min U Post Fo Type " C1 A B B B B C2 C2 C1 B
 | Const Footing Const Footing Max Footing Max Footing Max Footing St. 22 24 2 22 24 27 22 24 26 22 24 26 22 24 26 22 24 26 22 24 26 22 23 26 26 26 26 26 26 26 26 26 26 26 26 26 | rd Spece or do not not not not not not not not not no | trib Min Post 5' Type 3'-7" C111" A 3'-4" B 4'-10" B 0'-9" B 5'-9" C2 5'-4" C2 1'-9" B | Cubic foot Uplift F Footing Ma (in) 8' 20 23 23 26 22 24 22 24 24 27 24 25 22 22 | OSURE C ing "d" constrained cooting (in) ix Post Length 10' 12' 25 26 27 29 25 26 26 27 28 30 27 28 24 25
 | trib Min Post 5.5' Type 12'-4" C1 8'-6" B 12'-10" C1 11'-5" B 10'-3" B 15'-2" C2 14'-9" C2 14'-9" B | cubic foo Uplift Footing M (in) 8' 21 23 24 25 23 23 22 24 25 27 25 25 23 22 24 25 27 | oting "d" Constrained Footing (in) lax Post Length 10' 12' 3 24 25 5 27 28 3 25 26 4 25 27 7 28 29 5 26 28 5 26 28 2 24 25 | trib M. 6' Tyl 11'-4" C 8'-0" B 12'-2" C 10'-10" B 9'-9" B 14'-5" C 10'-9" B | Seism cubic in Uplift st Footing pe (in) 1 3 21 1 24 3 23 3 22 2 25 2 25 3 23
 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 23 24 2: 25 27 2: 23 25 20 24 25 28 2: 25 26 28 2: 22 23 25 22 23 22 | trib 2' 6.5' 10'-5" 5 7'-7" 8 11'-7" 5 10'-4" 6 13'-9" 7 13'-4" 4 10'-3" | Min Up
Post Foo
Type (ii
C1
B 2
C2 2
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C2 2 | Conting Conting Conting Max I Conting Conting Max I Contin | C Designation of the control of the | trib MPc 7' Ty 9'-8" C 7'-3" 11'-1" C 9'-11" C 8'-11" C 8'-11" C 13'-2" C 9'-9" C | cubic Ain Uplift ost Footing type (in) C1 B 21 C2 24 C1 23 B 23 C2 26 C2 25 C1 23
 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1; 22 23 2 25 26 2 23 24 2 23 25 26 27 24 26 2 21 23 2 22 21 23 2 | trib tth 12' 7.5' 9'-1" 24 6'-11" 27 10'-8" 25 9'-7" 26 8'-6" 28 12'-8" 27 12'-3" 24 9'-5" | Min U Post Fo Type C1 B C2 C1 C2 C2 C1 C2 C2 C1 C2 C2 C1 C1 C2 C2 C1 C1 C2 C1 | Complete | ting "d" Constrained Conting (in) ax Post Length 10' 12' 23 24 26 27 24 25 24 25 27 28 25 26 22 24 | trib M Por 8' Typ 8'-6" C 6'-7" B 10'-3" C 9'-2" C 8'-2" B 12'-3" C 9'-1" C
 | cubic f n Uplift t Facting e (in) 21 25 24 23 26 26 26 | Constr. Footing "c Constr. Footi |
| "x2"x6.5" "x3"x8" insert | V Load: Table 5.2b Detail On Slab L M K L W U V N | trib MPPG 3' Ty 22'-8" C 12'-1" / 12'-9" 15'-8" 14'-4" / 20'-9" 20'-6" 15'-7" / 13'-10" 12'-5" | cub n Uplift t Footing e (in) 19 21 21 20 23 22 21 20 23 | Cooking "d" Constrained Footing (in) Max Post Length 8 10 12 25 27 28 29 31 25 27 28 29 30 32 27 29 30 32 27 29 30 32 27 29 30 32 4 26 27 60 60 60 60 60 29 31 32 | trib 3.5' 19'-5" 11'-1" 16'-4" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" | Min Post Footing Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 | ooting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 28 30 31
 | rib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-5" 12'-0" 17'-7" | Min Uplift Footing (in) Type (in) A 20 B 22 B 21 B 21 C1 24 C1 23 B 21 C1 24 C1 23 C1 24 C1 23 | Sign Loc Constraints Constraints Footing (In Max Post Leng 8 10' 24 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 60 28 29 | ad 16 d trib gth 12' 4.5' 15'-1 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 29 16'-4 60 11'-3 31 16'-2 | Min U Post Fo Type C1 A B B C2 C1 B B C C1
 | Cubic footing 'Constitution of the constitution of the constitutio | rd Speed trained ining (in) strength (0' 12' 12' 12' 12' 12' 12' 12' 12' 12' 12 | cd: 95 Min Post Type 31-7" C1 -11" A 31-4" B 65-9" B 65-9" C2 51-4" C2 11-9" B 65-9" C2 55-4" C2 11-9" B 65-9" C2 65-4" C2 11-9" B 65-9" C2 65-4" C | Cubic foot | OSURE C ing "d" onstrained rooting (in) ax Post Length 10' 12' 25 26 27 29 25 26 27 29 25 26 27 28 30 27 28 24 25 60 60 28 29 | trib Min Post 5.5' Type 12'-4" C1 8'-6" B 12'-10" C1 11'-5" B 10'-3" B 10'-3" C2 14'-9" C2 11'-3" B 10'-4" B 10'-4" C2 14'-9" C2 11'-3" C2 14'-3" | cubic foo (Uplift Footing M (in) 8' 21 23 23 23 22 24 25 27 25 25 23 22 24 26 24 26 24 26 24 26 | eting "d" Constrained Footing (in) lase Post Length 10' 12' 3 24 25 5 27 28 3 25 26 3 25 26 7 28 29 5 26 28 2 24 25 5 26 28 2 24 25 5 26 28 5 26 28 5 26 28 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29 7 28 29
 | trib M Poi 6' Tyi 11'-4" C 8'-0" 8'-0" 8 12'-2" C 10'-10" 8 9'-9" 14'-5" C 10'-9" 8 9'-10" 8 13'-4" C 13'-4" | Color | footing "d" Constrained Footing (in) Max Post Length 8' 10' 12' 23 24 22' 25 27 24 24 25 26 24 25 26 28 25 26 22 22 23 24 26 60 60 60 60 60 60 60 66 27 22' | trib 1 | Min Up Pest Foo Cit Ct
 | Control of the contro | e Desis g "d" strained string (in) Peost Length 10" 12' 12' 25 26 27 29 26 27 23 24 66 60 60 60 60 60 60 60 60 60 60 60 60 | trib M Pc | Cubic Alin Uplift ost Footing type (in) C1 B 21 C2 24 C1 23 B 23 C2 26 C2 25 C1 23 B 23 C2 25 C2 25 C3 25 C4 25 C5 25 C7 25 C | Tooting "d" Constrained Footing (in) Max Post Length 8" 10' 1 | trib tth 12' 7.5' 9'-1" 24 6'-11" 27 10'-8" 25 9'-7" 26 8'-6" 28 12'-8" 27 12'-3" 24 9'-5" 28 11'-4" | Min U Post Fo Type C1 B C2 C1 B C2 C1 B C2 C2 C2 C1 B C2 | Composition | ing "d" Constrained Footing (in) Express Post Length 10' 12' 23 24 26 27 24 25 24 25 27 28 25 26 22 24 60 60 26 27
 | 8' Tyl 8'-6" C 6'-7" E 10'-3" C 8'-2" C 11'-9" C 11'-9" C 10'-9" C | cubic f n Uplift Footing (in) 21 25 24 23 26 26 26 24 23 25 | Consting "Constitution of the constitution of |
| "x2"x6,5" "x3"x8" "s3"x8" Insert tia #1 tia #2 | V Load: Table 5.2b Detail On Slab L M K L W U V N N | trib M P P P P P P P P P P P P P P P P P P | cub in Uplift t Footing ie (in) 19 21 21 20 23 22 21 20 23 24 | Cooking "d" Cooking "d" Cooking in | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 12'-10" 12'-10" | Min Uplift Post Footing Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 | cotting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 26 27 28 28 30 31 27 28 30 24 25 26 60 60 60 60 60 30 31 30 31 33
 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" | Min Post Footing (in) C1 A 20 B 21 B 21 C1 24 C1 23 B 21 B 21 C1 24 C1 23 C1 24 C2 25 | Sign Loc | ad 16 d d d d d d d d d d d d d d d d d d d | Min U Post Fo Type 1 C1 A B B B B C2 C1 C1 C2 C1 C1 C1 C1 C2 C1
 | cubic footing ' cubic footing ' phift footing (in) 20 24 23 26 22 24 27 24 27 24 26 22 23 24 27 24 27 24 27 28 29 20 20 20 20 20 20 20 20 20 | rd Spece ("d" trained ing (in) st.Length (10' 12' 12' 12' 12' 12' 12' 12' 12' 12' 12 | cd: 95 Min Post 5' Type 3'-7" C1 -11" A 3'-4" B 5'-10" B 0'-9" C2 1'-9" B 0'-8" C2 1'-9" B 0'-8" C2 1'-9" C2 | Cubic foot (in) 8' 20 23 26 22 24 22 24 25 22 22 22 22 24 27 26 28 28 27 26 28 28 27 26 28 28 27 26 28 28 27 26 28 28 27 26 28 28 27 26 28 28 27 27 26 28 28 27 27 27 27 27 27 27 27 27 27 27 27 27 | OSURE C ing "d" onstrained rooting (in) ix Post Length 10' 12' 25 26 27 29 25 26 26 27 28 30 27 28 24 25 60 60 28 29 29 31
 | trib Min
5.5' Type
12'.4" C1
8'.6" B
12'.10" C1
11'.5" B
10'.3" B
15'.2" C2
14'.9" C2
11'.3" B
10'.4" B
14'.3" C2 | cubic foo (Uplift Footing M (in) 8' 21 23 23 22 24 25 27 25 25 23 22 24 26 24 26 28 26 28 26 28 26 28 26 28 26 28 26 28 26 28 27 27 27 27 27 27 27 27 27 27 27 27 27 | Constrained Footing (in) lax Post Length 10' 12' 12' 12' 12' 12' 12' 12' 12' 12' 12 | trib M 6' Tyl 11'-4" C 8'-0" E 12'-2" C 10'-10" E 9'-9" E 14'-5" C 10'-9" E 9'-10" E 13'-4" C | Seism cubic | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 23 24 2: 25 27 2: 24 25 26 28 2: 25 26 28 2: 25 26 27 2: 26 60 60 60 26 27 2: 27 29 33
 | trib 1, 6.5' 10'-5" 5 7'-7" 8 11'-7" 5 10'-4" 6 13'-9" 7 13'-4" 1 10'-3" 9 9'-5" 9 12'-7" | Min Upp
Pest Foo
Type (in
C1
B 2
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C1 2
B 2
C2 2
C2 2
C2 2
C2 2
C2 2
C2 2
C2 | cubic footing Control Footing Max fin) 21 22 24 25 23 23 22 23 25 26 25 26 27 27 | Design of the strained obting (in) Post Length 10' 12' 24 25 26 28 24 25 26 27 29 26 27 23 24 60 60 60 27 28 28 30
 | trib M P P P P P P P P P P P P P P P P P P | Cubic Min Uplift Footing (in) C2 24 C1 23 B 23 C2 26 C2 25 C1 23 B 23 C2 25 C2 25 C2 25 C2 27 | Footing "d" | trib tth 12' 7.5' 9'-1" 24 6'-11'' 27 10'-8" 25 9'-7" 26 8'-6" 28 12'-8" 27 12'-3" 24 9'-5" 50 8'-9" 28 11'-4" 29 13'-11'' | Min U Post Fo Type C1 B C2 C1 B C2 C2 C2 C1 C1 C2 | Corona C | ring "d" Constrained footing (in) ax Post Length 10' 12' 23 24 26 27 24 25 24 25 27 28 25 26 22 24 60 60 26 27 28 29 | trib M 8' Tyi 8'-6" C 6'-7" E 10'-3" C 9'-2" C 12'-3" C 11'-9" C 8'-6" C 10'-9" C 13'-3" C
 | cubic for the footing of the footing | Constr Footin Max Post 8' 10' 22 2: 24 2: 22 2: 25 2: 24 2: 24 2: 25 2: 24 2: 26 0 66 24 26 2: 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "x2"x6.5"
3"x3"x8"
Insert
cia #1
cia #2 | V Load: Table 5.2b Detail On Slab L M K L W U V N N | trib M Pc 3' Ty 22'-8" C 12'-1" 17'-9" 14'-4" 20'-9" 14'-4" 13'-10" 12'-15" 13'-10" 12'-15" 12'-5" 37'-5" C 37'-5" | cubin Uplift Footing (in) 19 21 21 20 23 22 21 20 23 24 27 | Constrained Footing (in) Max Post Length 8* 10° 12' 25 27 28 29 31 25 27 28 26 29 30 32 27 29 30 32 24 26 27 29 30 32 34 33 35 37 33 35 37 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" | Ad: 10 cubic Min Uplift Footing Footing (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 | ooting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 29 30 25 26 28 26 27 28 26 27 28 30 31 27 28 30 31 27 28 30 31 27 28 30 31 27 28 30 31 37 35 36 30 31 33 35 36 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-5" 13'3" 12'-0" 17'-7" 21'-3" 31'-5" | No | Sign Loc ic footing "d" Constraine Footing (In 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 28 29 29 31 32 34 | ad 16 dd b) trib gth 12' 4.5' 27 9'.6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 426 12'-5 60 11'-3 31 16'-2 32 19'-7 35 29'-3 | Min U Post Fo Type 1 C1 A B B C C2 C2 C2 C2 | Cubic footing ' cubic footing ' cubic footing ' control footing ' | rd Special strained in the str | trib Min Post Type 31-7" C1 | PH EXPC Cubic foot Cubic | OSURE C ling "d" onstrained on ording (in) to Person to | trib Min Post 174 C1 8*6* B 10*-3* B 10*-3* B 10*-3* B 10*-3* B 14*-3* C2 17*-4* C2 17*-4* C2 17*-4* C2 17*-4* C2 17*-5* C3 10*-5* C3 10 | cubic foo (Uplift Feeting M (in) 8' 8' 21 23 23 23 22 24 25 25 25 25 25 25 26 24 26 26 28 30 31 31 30 31 31 | ating "d" Constrained Footing (in) lax Post Length 10' 12' 3 24 25 5 27 28 3 25 26 4 25 26 4 25 26 2 26 28 2 24 25 0 60 60 5 28 29 3 11 1 32 34 1 32 34 | trib M Pac | Seism cubic | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12 23 24 2: 25 27 2: 23 25 27 2: 24 25 26 28 2: 25 26 28 2: 25 26 20 2: 27 29 34 30 32 33 | trib 1 | Min Upp
Pest Foo
Type (ii
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B 2
C2 2
C1 2
B 2
C2 2
C2 2
C2 2
C2 2
C2 2
C2 2
C2 | cubic footing Constitution (Constitution Constitution Con | Design of the strained obtained in the strained in the s | trib M P P P P P P P P P P P P P P P P P P | cubic | Footing "d" | trib tth 12' 7.5' 9'-1" 24 6'-11" 27 10'-8" 25 9'-7" 26 8'-6" 28 12'-8" 27 12'-3" 24 9'-5" 60 8'-9" 28 11'-4" 29 13'-11" 33 21'-5" | Min U Post Foot Type C1 B C2 C1 B C2 C1 B C2 C2 C1 C1 C2 | Complete Com | ting "d" Constrained rooting (in) sx Post Length 10' 12' 23 24 26 27 24 25 27 28 25 26 27 28 25 26 26 27 28 29 26 27 28 29 26 27 28 29 28 29 31 32 | trib M 8' Ty 8'-6" Ty 10'-3" C 9'-2" E 12'-3" C 11'-9" C 8'-6" C 10'-9" C 13'-3" C | cubic (n Uplift t Facting e (in) 21 25 24 23 26 26 26 24 23 25 27 31 | Constr Footing Technology Co |
| "x2"x6.5" "x3"x8" Insert cia #1 cia #2 | V Load: Table 5.2b Detail On Slab L M K L W U V N N N S | trib M Pc 222-8" Ty 222-8" Ty 17-9" 15'-8" 11'-9" 15'-8" 15'-8" 15'-7" 13'-10" 12'-5" 25'-8" C3-6'-6'-6'-6'-6'-6'-6'-6'-6'-6'-6'-6'-6'- | cubin Uplift Footing (in) 19 21 20 23 22 21 20 23 24 27 27 | Cooting "d" Constrained Footing (in) Max Post Length | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-10" 14'-4" 12'-10" 19'-3" 23'-2" 33'-6" | Min Post Footing Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 | cotting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 00 60 60 28 30 31 30 31 33 33 35 36 32 34 36 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-2" | Column C | Sign Loc ic footing "d" Constraine Footing (in Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 60 60 28 29 29 31 32 34 32 34 | ad 16 ed 1) trib gth 12' 4.5' 27 9'-6' 29 14'-2 27 12'-7 28 11'-5- 31 16'-8 29 16'-4 29 16'-4 29 16'-4 31 16'-2 32 19'-7 32 19'-7 35 29'-3 35 29'-3 | Min U Pest Fo Type Ty | Cubic Footing 'Constitution of the Constitution of the Constitutio | rd Special Spe | trib Min Post 55 Type 33-7" C1 -11" A 3-34" B 0-9" B 5-10" B 0-9" B 5-5" C2 5-5-4" C2 11-9" B 0-9" C2 8-3" C2 7-5" D 7-5" D 7-5" D 7-5" | C Uplift F Footing Ma (In) 8' 20 23 26 22 24 22 24 24 27 24 25 22 21 21 60 24 27 26 28 29 31 29 31 29 31 | OSURE C ing "d" or onstrained cooring (in) at Post Length 10" 12" 25 26 27 29 25 26 27 28 30 27 28 24 25 60 60 60 60 28 29 29 31 33 34 | trib Min Post 5.5' Type 12'-4" C1 8'-6" B 12'-10" B 10'-3" B 15'-2" C2 14'-9" C2 11'-3" B 14'-3" C2 26'-2" D 26'-8" D | cubic food (Uplift Footing M (in) 8' 21 23 23 23 22 24 25 27 25 25 25 23 22 24 26 26 28 30 31 30 33 | oting "d" Constrained Footing (in) Law Post Length 10' 12' 3 24 25 3 27 28 3 25 26 4 25 27 7 28 29 5 26 28 29 5 26 28 29 3 29 31 3 32 34 | trib M Por Por Property Proper | Seism cubic | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 23 24 2: 25 27 2: 23 25 27 2: 24 25 26 28 2: 25 26 2 22 23 2: 60 60 60 60 60 60 60 60 60 67 22 27 29 34 30 32 33 30 32 33 | trib 1 6.5' 10'-5' 7'-7' 11'-7' 11'-7' 13'-4'' 13'-9'' 13'-4'' 13'-9'' 12'-7' | Min Up
Post Foo
C1
B 2
C2 2
C1 2
B 2
C2 2
C2 2
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C2 2
C2 2
C2 2
C2 | cubic footing Constitution (Constitution Constitution Con | Position (in) Post Length 10' 12' 24 25 26 28 24 25 25 26 27 29 26 27 23 24 26 27 28 28 30 31 33 33 33 33 33 33 33 33 33 | trib M Pc 7' IV 9'-8" C 7'-3" 11'-1" C 9'-11" C 8'-11" C 12'-9" C 9'-9" C 12'-5" C 11'-11" C 22'-5" C 22'-5" | cubic | Tooting "d" | trib th th th th th th th trib | Min U Post Foo Type C1 B C2 C1 B C2 C1 B C2 C1 C1 B C2 C1 C1 C1 C2 C1 C1 C2 | Control of the contro | ing "d" constrained from the conting (in) as Post Length 10' 12' 23 24 26 27 24 25 26 27 28 25 26 26 27 28 29 31 32 31 33 | trib M Po 8' Tyi 8'-6" C 6'-7" 8 10-3" C 9'-2" C 11'-3" C 11'-3" C 11'-3" C 10'-3" C | cubic (n Uplift t Facting e (in) 21 25 24 23 26 26 26 27 31 32 | Constr Footin Max Pos 8' 16' 22' 2' 22' 22' 22' 22' 22' 22' 24' 2' 24' 2' 24' 2' 24' 2' 24' 2' 24' 2' 24' 2' 24' 2' 29' 3' 29' 3' 29' 3' |
| "x2"x6.5" "x3"x8" insert tia #1 tia #2 Steel C Steel C | V Load: Table 5.2b Detail On Slab L M K L U V N N N N S S S | trib Meson 122-8" Ty 222-8" Ty 127-12" 177-9" 1815-8" 141-4" 207-9" 1815-7" 18 | cubin Uplift Footing (in) 19 21 21 20 23 22 21 20 23 22 21 20 23 24 27 27 27 28 | Constrained Footing (in) Max Post Length 8* 10' 12' 25 27 28 28 29 31 25 27 28 26 28 29 30 32 27 29 30 32 24 26 27 29 30 32 34 35 37 33 35 37 33 35 37 34 36 38 34 36 38 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 33'-6" 40'-0" | Ad: 10 cubic Min Uplift Footing Footing (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 29 D 30 | cooting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 29 30 25 26 28 26 27 28 26 27 28 30 31 27 28 30 31 27 28 30 31 27 28 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 31 31 32 34 36 37 34 36 37 34 36 38 | trib 4' 17'-0" 10'-2" 15'-2" 12'-2" 17'-9" 12'-2" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-5" 31'-5" 40'-0" | Country Coun | Sign Loc ic footing "d" Constraine Footing (In # Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 28 29 29 31 32 34 32 34 33 35 34 36 | ad 16 sed by trib gth 12' 4.5' 15'-1 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 29 16'-4 26 12'-5 60 11'-3 31 16'-2 32 19'-7 35 29'-3 35 29'-3 37 33'-9 38 40'-0 | Min U Pest For Type III | Use of the state o | rd Special Spe | trib Min Pest - Fest - | PH EXPC Cubic Footing Market | DSURE C ing "d" ononstrained ooting (in) sx Post tength 10" 12" 25 26 27 29 25 26 26 27 28 30 27 28 24 25 60 60 60 60 28 29 29 31 33 34 33 34 34 36 36 38 | trib Min Fryse 122-4" C1 8'-6" B 10'-3" B 10'-4" C2 11'-5" C2 11'-5" C2 11'-3" B 10'-4" B 14'-3" C2 17'-4" C2 26'-2" D 26'-8" D 30'-10" F1 | cubic foo Uplift Footing M (in) 8' 21 23 24 25 23 23 22 24 25 25 23 22 24 26 24 26 24 26 24 30 31 30 31 30 31 32 32 34 34 34 | oting "d" Constrained Footing (in) Law Post Length 10' 12' 5 27 28 3 29 26 4 25 27 7 28 29 6 26 28 2 24 25 6 60 60 6 28 29 1 32 34 1 32 34 1 32 34 1 32 34 3 34 35 4 36 38 | trib M Poi Poi Poi Pi | Seism cubic | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12 23 24 2: 25 27 2: 23 25 27 2: 24 25 26 28 2: 25 26 28 2: 25 26 20 2: 27 29 30 30 32 33 30 32 33 31 33 33 34 36 33 | trib 1 6.5' 10'-5" 5 7'-7" 8 11'-7" 8 11'-7" 9 13'-9" 1 10'-3" 1 10'-3" 1 10'-3" 1 10'-3" 1 12'-7" 1 15'-5" 1 23'-6" 1 24'-4" 1 37'-9" | Min Up
Post Foo (in
Type (in
E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | cubic footing Control Footing Max is in) 8' 21 22 24 25 23 23 23 23 22 22 26 00 25 25 26 27 300 30 30 31 30 32 31 366 33 | g "d" latrained strained strai | trib M Pc 7' Ty 9'-8" C 7'-3" 11'-1" C 8'-11'' 13'-2" C 12'-9" C 9'-1" 11'-11'' C 22'-5" 23'-4" 27'-1" | cubic Ain Uplift ost Footing type (in) C1 B 21 C2 24 C1 23 B 23 C2 26 C2 25 C1 23 B 23 C2 25 C1 23 C2 27 C3 31 C3 31 C3 36 C4 36 C5 36 C7 37 C7 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 22 23 25 26 2 23 24 26 27 2 24 26 27 2 24 26 27 2 26 27 2 26 26 2 27 2 26 28 2 26 28 2 29 31 3 30 31 3 31 33 33 33 35 33 | trib thit tl2' 7.5' 9'-1" 24 6'-11" 25 9'-2" 26 8'-6" 28 12'-8" 24 9'-5" 26 8'-9" 24 9'-5" 26 8'-9" 24 9'-5" 33 22'-6" 33 22'-6" 33 22'-6" | Min U Post Fo C1 | Control Cont | ining "d" constrained conting (in) ax Post Length 10' 12' 23 24 26 27 24 25 27 28 25 26 27 28 25 26 26 27 28 29 31 33 32 34 35 36 | trib M Por Por No. 10 | cubic f n Uplift Footing (in) 21 22 24 23 26 26 24 23 25 27 31 32 33 37 | Constr Footing **Constr |
| "x2"x6.5" "x3"x8" Insert tia #1 tia #2 Steel C Steel C Steel C Steel C | V Load: Table 5.2b Detail On Slab L M K L W U V N N N S S S J | trib M P P P P P P P P P P P P P P P P P P | cub r Uplift t Footing (in) 19 21 20 23 22 21 20 23 27 27 28 28 20 20 | Cooting "d" Cooting "d" Cooting (in) Max Post Length R 10 12 Cooting (in) Max Post Length R 10 12 Cooting (in) Co | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 18'-10" 19'-3" 23'-2" 33'-6" 34'-1" 33'-6" 38'-6" 40'-0" 12'-4" | Min Post Footing Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 23 C2 25 C2 28 C2 28 C2 29 D 30 A 20 | cotting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 05 60 60 05 30 31 30 31 33 30 31 33 33 35 36 32 34 36 34 36 37 34 36 37 36 38 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-5" 13'-3" 12'-2" 12'-0" 17'-7" 21'-3" 31'-5" 35'-11" 40'-0"
 | Column C | Sign Loc ic footing "d" Constraine Footing (in Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 60 28 29 29 31 32 34 33 35 34 36 19 20 | ad 16 bd (1) trib gth (2) 15'-1 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 31 16'-8 29 16'-4 26 01'-3 31 16'-2 32 19'-7 33 19'-7 35 29'-4 37 33'-9 37 33'-9 21 10'-7 21 10'-7 | Min U Pest For Type 1 | Cubic Footing 'Control of the Control of the Contro | rd Special Spe | trib Min Post 55 Type 63-7-7-7-7-7-7-5 D 27-7-8-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7 | PH EXPC cubic Footing Mark (in) 8' 20 23 23 26 22 24 24 27 24 25 22 22 21 60 27 26 28 29 31 31 32 33 34 21 19
 | DSURE C ing "d" or onstrained cooring (in) at Post Length 10" 12" 25 26 27 29 25 26 27 28 30 27 28 30 27 28 30 33 34 34 36 36 38 38 4 Took of the coordinate | trib Min Post 7 Type 12"-44" C1 8"-6" B 12"-10" C2 14"-9" C2 14"-9" C2 14"-9" C2 17"-4" C2 26'-2" D 30"-10" E 40"-0" F1 40"-0" F1 | cubic foo Uplift Footing M (in) 8' 21 23 24 24 25 25 25 25 25 25 22 26 60 26 26 28 30 31 30 31 32 32 34 34 34 | oting "d" Constrained Footing (in) Law Post Length 10' 12' 25' 27 28 3 25 26 4 25 27 7 28 29 5 26 28 29 5 26 28 29 3 29 31 3 32 34 3 35 38 3 32 31 3 32 34 3 35 38 | trib M Por Por Property Proper | Seism cubic cubic fin Uplift footling ge (in) 1 1 3 21 1 24 3 23 3 22 2 25 3 3 22 2 25 3 3 22 2 3 3 3 3
 | footing "d" Constrained Footing (in) Max Post Lengtle 8' 10' 12' 25 27 2: 23 25 26 22 23 26 62 62 62 62 62 7 2: 27 29 30 32 33 31 33 33 33 34 36 38 10 Footing (in) Max Post Lengtle 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | trib 1 6.5' 10'-5" 5 7'-7" 5 10'-4" 5 10'-4" 6 13'-4" 6 13'-4" 1 10'-3" 9 12'-7" 9 12'-7" 9 12'-7" 9 12'-7" 9 12'-7" 9 12'-7" 9 12'-7" 9 18'-6" 1 24'-4" 1 28'-2" 1 8'-6" | Min Up Pest Foo (in C1) B 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | cubic footing Control Footing Max I in in S in I in I in I in I in I in I | g "d" g "d" stattalned string (in) Post Length 10' 12' 24 25 26 28 24 25 27 29 26 27 23 24 60 60 60 60 27 28 28 30 31 33 32 33 33 34 35 37 21 23
 | trib M Pc 7' Ty 9'-8" C 7'-3" 11'-1" C 9'-11" C 8'-11" C 12'-9" C 9'-1" 11'-11" C 14'-8" C 22'-5" 23'-4" F 8'-2" F | cubic Alin Uplift ost Footlag type (in) C1 B 21 C2 24 C1 23 B 23 C2 25 C1 23 B 23 C2 25 C1 23 C2 25 C2 27 D 31 E 33 E 33 F 36 B 22 | Tooting decision Tooting decision | trib titl 7.5' 9'-1" 27 10'-8" 25 9-7' 26 8'-6" 27 12'-3" 27 12'-3" 27 12'-3" 28 11'-4" 29 13'-11'' 33 22'-6" 34 26'-2" 33 7'-9" | Min U Post For Type C1 B C2 C2 C2 C1 B C2 C2 C3 C4 C5 C5 C5 C5 C6 | Control Cont | ing "d" constrained; costing (in) ax Post tength 10' 12' 23 24 26 27 24 25 27 28 25 26 22 24 60 60 26 27 28 29 31 32 31 33 32 34 35 36 22 23 | trib M Pot
 | cubic f n Uplift footing (in) 21 25 24 23 26 26 24 23 25 27 31 32 33 37 | Conting "Construction of the Construction of t |
| """""""""""""""""""""""""""""""""""""" | V Load: Table 5.2b Detail On Slab L M K L M V N N N N S S S S AU | trib M PP P | cub r Uplift Footing (in) 19 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 21 20 23 22 22 22 22 22 22 22 22 22 22 22 22 | Cooting "d" Constrained Footing (in) Max Post Length S 10 12 12 12 12 12 12 12 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 40'-0" 12'-4" | Ad: 10 cubic | ooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25 | trib 4' 17'-0" 10'-2" 13'-5" 12'-2" 17'-5" 13'-3" 12'-0" 12'-1' 31'-5" 21'-3" 31'-5" 31'-2" 35'-11" 40'-0" 11'-4"
 | County County | Cooting "d" Constraine Footing (in Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 29 26 28 29 26 28 29 29 31 32 34 32 34 36 39 20 21 23 23 23 23 25 25 25 27 28 29 26 28 29 27 28 29 27 28 29 31 32 34 36 39 30 30 30 30 30 30 30 | ad 16 det he he he he he he he | Min U Pest Fo Formation Min U Pest Fo Formation Type C1 A B B C2 C1 C3 B C4 C5 C6 C7 C7 C7 C7 C8 C9 C9 C9 C9 C9 C9 C9 | Constitution Consti | rd Special Spe | trib Min Post 15" Yupe 5" Yupe | PH EXPC cubic Footing Mark (fin) 8 2 3 26 22 24 24 22 24 24 25 22 22 21 60 24 27 26 28 29 31 31 32 33 34 41 19 24 21 19
 | DSURE C ling "d" constrained footing (in) ix Post length 10" 12" 25 26 27 29 25 26 26 27 29 28 30 27 28 30 27 28 24 25 60 60 28 29 29 31 33 34 33 34 33 34 34 36 36 38 20 21 22 23 | trib Min Post Type 12".44" C1 8"-6" B 12".10" C1 11".5" B 10".3" B 15".2" C2 14".9" C2 14".3" C2 26".2" D 26".8" D 30".10" E 40".0" F1 9"-6" B 14".7" C2 | Cubic food Uplift Footing M (in) 82 24 25 23 23 22 24 25 27 25 25 24 26 26 28 30 31 30 31 30 32 32 32 34 34 34 34 | ting "d" Constrained Footing (in) as Post Length 3 | trib M Por 6' Ty 11'-4" C 8'-0" E 12'-2" C 10'-10" E 14'-5" C 14'-9" C 13'-4" C 13'-4" C 13'-4" C 24'-9" C 24'-9" C 24'-9" C 24'-9" C 29'-5" E 39'-4" F:
 | Seism cubic in Uplift footing (in) 1 1 1 1 24 3 22 2 2 5 3 2 2 2 5 3 3 2 2 2 5 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 3 2 3 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 23 24 22' 25 27 2: 23 25 26 24 25 26 25 26 28 2: 25 26 28 2: 25 26 28 2: 25 26 28 2: 27 29 3: 28 30 32 3: 30 32 3: 30 32 3: 31 33 3: 34 36 3: 20 21 22 21 | trib 1 6.5' 10'-5' 10'-5' 3 11'-7' 3 11'-7' 3 11'-7' 1 13'-5' 1 10'-3' 1 10'-3' 1 10'-3' 1 10'-3' 1 15'-5' 1 23'-6' 1 24'-4' 2 35'-6' 3 37'-9' 2 8'-6' 3 37'-9' 2 8'-6' 3 13'-5' | Min Up Pest Fee Type (in C1 | cubic footing Corrections of
the | g "d" | trib MPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP | cubic Alin Uplift cost Footing (m) C1 B B 21 C2 24 C1 C3 B C3 C2 25 C1 C3 B C3 C2 C5 C5 C5 C7 C7 C7 C7 C7 C7 C7 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1 2 23 23 2 25 26 2 23 24 2 23 25 26 2 23 24 26 27 2 24 26 27 2 24 26 2 21 23 25 26 2 29 31 3 30 31 3 31 33 35 3 31 33 35 3 21 22 22 22 22 22 22 23 31 3 | trib ttl2' 7,5' 9'-1" 27 10'-8" 25 9'-2" 26 8'-6" 28 12'-8" 27 12'-3" 24 9'-5" 26 8'-9" 28 11'-4" 29 13'-11" 33 22'-5" 33 22'-5" 34 26'-2" 37 35'-0" 23 7'-9" | Min U Fost Fo For Type C1 S S C2 C1 S S C2 | Content Cont | ting "d" Constrained Const | trib M for 8' TV 8-6" C 6'-7" E 10'-3" C 9'-2" C 8'-2" E 11'-3" C 11'-9" C 8'-6" C 20'-6" C 20'-6" C 21'-9" E 33'-11" F: 7'-6" B | cubic f n Uplift
 | Consting "Construction of the construction of |
"x2"x6.5" "x3"x8" Insert tia #1 tia #2 Steel C Steel C Steel C Steel C	V Load: Table 5.2b Detail On Slab L M K L W U V N N N N S S S J AU P	trib M P P P P P P P P P P P P P P P P P P	cub r Uplift t Footing (in) 19 21 21 20 23 22 21 20 23 24 27 27 27 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	Constrained Footing (in) Max Post Length R* 10° 12° 28 29 31 25 27 28 26 28 29 30 32 27 29 30 32 24 26 27 29 30 32 34 36 38 35 37 33 35 37 34 36 38 20 21 22 23 25 19 21 22	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 33'-6" 33'-6" 34'-1" 33'-6" 40'-0" 12'-4" 18'-2"	Ad: 10 cubic Min Uplift Footing Footing (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 29 D 30 A 20 A 20 A 20 A 30	cooting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 28 26 27 28 30 31 27 28 30 31 27 28 30 24 25 26 60 60 60 60 60 60 60 60 28 30 31 30 31 33 30 31 33 31 33 32 34 36 34 36 37 34 36 38 20 21 22 22 23 24 19 20 21	trib 4' 17'-0" 10'-2" 13'-5" 12'-2" 13'-5" 17'-9" 17'-5" 13'3" 12'-0" 12'-0" 11'-4" 17'-0" 11'-4" 17'-0" 11'-4"	Country Coun	Sign Loc ic footing "d" Constraine Footing (In # Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 60 28 29 29 31 32 34 32 34 33 35 34 36 19 20 21 23	ad 16 bil trib gth 15 15'-1 15'-1 27 9'-6' 29 14'-2 27 12'-7 28 11'-5 29 16'-4 29 16'-4 31 16'-2 32 16'-0 31 10'-7 32 16'-0 31 10'-7	Min U Pest For Type III	Use of the state o	rd Special Spe	trib Min Peat - Feat -	Cuplift Footing Market 1	DSURE C ling "d" constrained to the properties of the properties	trib Min 5.5.' Type 12'.4" C1 8'.6" B 10'.4" B 10'.3" B 10'.4" B 14'.3" C2 17'.4" C2 17'.4" C2 10'.4" B 14'.3" C2 17'.5" D 26'.2" D 26'.8" D 30'.10" F 19'.6" B 14'.7" C2	cubic foo Uplift Footing M (in) 8' 21 23 22 24 25 25 23 22 25 25 24 26 24 26 24 26 24 26 24 27 25 25 23 22 21 22 22 24 25 27 25 25 24 26 24 26 24 26 24 26 26 28 30 31 30 31 30 31 32 32 32 32 32 32 32 32 32 32 32 32 30 30 30 31	otting "d" Constrained Footling (in) lax Post tength 10' 12' 5 27 28 3 25 27 28 3 25 26 4 25 27 7 28 29 5 26 28 29 5 26 28 29 5 26 28 29 1 31 32 34 1 32 34 1 32 34 1 32 34 1 35 36 38 1 21 22 2 23 2 24 25 2 24 25 2 24 25 2 24 25 2 34 35 3 34 35	trib Melon M	Seism cubic in Uplift set Footling per (in) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25' 25' 27 21 23 25 26 28 25' 26 28 22' 23 20' 27 29 30 32 33 31 33 31 33 31 20 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	trib 1 6.5' 10'.5" 10'.5" 10'.5" 10'.4" 10'.4" 10'.4" 10'.3" 112'.7" 112'.7" 112'.4" 10'.3" 112'.7" 112'.7" 112'.4" 124'.4" 1	Min Up Pest Fee (h Fee C1	cubic footing Compositing Footing Foot	g "d" statained sting (in) Poot Length (trib MPR PR P	cubic Alin Uplift ost Footing type (in) C1 B 21 C2 24 C1 23 B 23 C2 25 C1 23 B 23 C2 25 C1 23 B 23 C2 25 C1 3 B 33 C2 25 C2 27 D 31 E 33 B 23 C2 25 C2 27 D 31 C 25 C2 27 C3 26 C4 26 C5 26 C5 27 C5 27 C7	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 22 23 25 26 2 23 24 26 27 2 24 26 27 2 24 26 27 2 26 27 2 26 26 28 2 26 28 2 29 31 3 30 31 3 31 33 33 31 33 35 3 21 22 2 21 22 2 21 22 2	trib trib trib trib trib trib trib trib	Min U Post For Type C1 B C2 C1 B C2 C2 C1 B C2 C2 C1 B C2 C2 C2 C1 C2 C2 C3 C4 C5 C5 C6 C7 C7 C7 C7 C8 C7 C8	Company Comp	ting "d" constrained conting (in) ax Post tength 10" 12" 23 24 26 27 24 25 27 28 25 26 27 28 25 26 26 27 28 29 31 33 32 34 35 36 22 23 31 33 32 34 35 36 22 23 23 24 22 23	trib M Por Por No. 10	cubic f n Uplift Footing (in) 21 25 24 23 26 26 24 23 25 27 31 32 33 37 22 26 22 22 22 23	Conting "C Constr Footin Max Post 8" 10" 22 22 24 25 22 24 25 27 24 25 27 27 29 30 30 32 33 34 21 22
"x2"x6.5" "x3"x8" nsert ia #1 ia #2 steel C tteel C af	V Load: Table 5.2b Detail On Slab L M K L M V N N N N S S S J AU P Q R	trib M PP P	Cubin Uplift Footing (in) 19 21 21 21 20 23 22 21 20 23 24 27 27 28 28 20 21 27 27 28 28 20 21 21 20 21 21 20 21 20 21 21 21 20 21 21 21 21 21 22 22 22 22 22 22 22 22	Footing "d" Constrained Footing (in) Max Post Length 8* 10' 12' 25 27 28 28 29 31 25 27 28 28 29 30 25 27 29 30 27 29 30 32 24 26 27 60 60 60 60 60 29 31 32 30 32 34 33 35 37 37 37 37 37 37 37 37 37 37 37 37 37 37 37 3	trib. 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 38'-6" 40'-0" 12'-4" 18'-2" 8'-7" 17'-2"	Ad: 10 cubic Could be seen as a cubic Could be	cooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25 26 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 21 22 33 30 31 31 30 31 31 30 31 31 33 35 36 30 31 31 33 35 36 32 34 36 37 34 36 38 30 31 34 36 38 30 31 34 36 38 30 21 22 22 23 24 19 20 21 25 27 28	trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-5" 31'-1" 40'-0" 11'-4" 17'-0" 8'-4"	Min Uplift Post Footkness Post Footkn	Sign Loc	ad 16 d trib grib 15'-1 27 9'-6'- 29 14'-2 27 12'-7 28 11'-5'- 31 16'-8 31 16'-2 31 31'-3'-3'-3'-3'-3'-3'-3'-3'-3'-3'-3'-3'-3'	Min U Pest Fo Formation Min U Pest Fo Formation Type C1	Constitution of the consti	rd Special Spe	trib Min Post 15° Yupe 5° Yupe	PH EXPC cubic Footing Uplift F Footing Ma (in) 8 20 23 23 26 22 24 24 22 24 24 25 22 21 60 24 27 28 29 31 30 31 32 33 34 21 19 24 21 19 24 25 27 28 29 31	DSURE C ing "d" ing "d" constrained footing (in) ix Post tength 10' 12' 25' 26 27' 29 25 26 26 27' 28 30 27' 28 30 27 28 30 27 28 30 29 31 33 34 34 36 36 38 30 38 30 38 30 31 31 32 32 21 32 21 32 22 32 20 21 26 28	trib Min Post Type 12".44" C1 8"-6" B 12"-10" C1 11".5" B 10".3" B 15"-2" C2 14".9" C2 14".3" C2 26".2" D 26".8" D 30".10" E 40".0" F1 9".6" B 14".7" C2 7".8" A 15".4" C2 7".8" A	cubic foo Uplift Footing M (in) 8' 24 25 23 23 22 24 25 27 26 26 29 30 31 30 31 30 31 30 31 31 32 32 32 34 34 34 21 19 25 25 27 28	ting "d" Constrained Footing (in) law Post Length 3	trib M Por 111-47 C 88-07 8 127-27 C 107-107 E 97-97 8 147-57 C 137-47 C 247-97 C	Seism cubic uplift footing footing 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 23 24 2! 25 27 2: 23 25 26 2: 24 25 26 26 2: 25 26 27 2: 26 26 27 2: 27 29 33 30 32 3: 31 33 32 3: 34 36 31 30 32 21 2: 20 2: 20	trib 1 6.5' 10'-5' 10'-5'' 3 11'-7'' 3 11'-7'' 4 13'-5'' 1 13'-9'' 1 13'-9'' 1 12'-7'' 1 15'-5'' 1 23'-6'' 1 24'-4'' 2 13'-6'' 1 37'-9'' 2 8'-6'' 1 37'-9'' 2 8'-6'' 1 37'-9'' 2 8'-6'' 1 14'-8'' 1 19'-3'' 1	Min Up Foo F	cubic footing Compositing Footing Foot	g "d" g "d" properties of the	trib M PC	Cubic Alin Uplift Cost Footing Wee (in) Co	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 2 23 23 2 25 26 2 23 24 2 23 25 26 2 23 25 26 2 24 26 27 2 24 26 2 21 23 2 26 27 2 29 31 3 30 31 3 31 33 35 3 31 33 35 3 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2	trib the tri	Min U Fost Fo For Type C1 S S C2 C1 S S C2	Company Comp	ting "d" Constrained Const	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6 17-6 17-6 17-6 17-6 17-6 17-6 17	cubic (n Uplift Footing (in) 21 25 24 23 26 26 23 25 27 31 32 33 37 22 26 22 27 30	Construction 1 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
"x2"x6.5" "x3"x8" nsert ia #1 ia #2 Steel C Steel C af	V Load: Table 5.2b Detail On Slab L M K L M V N N N N S S S J AU P Q R	trib M PP P	Cubin Uplift Footing (in) 19 21 20 21 20 22 21 20 23 24 27 27 28 28 29 17 21 20 20 21 20 20 21 20 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Cooting "d" Constrained Footing (in) Max Post Length R 10 12 12 12 12 13 13 13 13	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 40'-0" 12'-4" 18'-2" 8'-7" 17'-2" 22'-5" 25'-3"	Ad: 10 cubic	cooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 6 60 60 60 28 30 31 33 35 36 31 33 33 35 36 32 34 36 36 32 34 36 32 34 36 32 34 36 32 34 36 32 34 36 32 32 34 36 36 32 32 34 36 36 32 32 34 36 36 32 32 34 36 36 32 32 34 36 36 32 32 34 36 36 37 34 36 38 30 21 32 22 23 24 39 20 21 25 27 28 30 31 32 34 35	trib 4' 17'-0" 10'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-5" 31'-5" 31'-4" 40'-0" 11'-4" 16'-8" 21'-10' 24'-6"	Columbia	Sign Loc ic footing "d" Constraine Footing (in Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 23 25 60 60 60 28 29 29 31 32 34 33 35 34 36 19 20 21 23 19 20 25 27 28 30 32 34	ad 16 distance of the control of th	Min U Pest Fo Type U C1	Constitution of the consti	rd Special Spe	trib Min Pest 15" Type 23" 7" C1 -11" A 3-4" B 55-9" C2 55-4" C2 15-6" D 0-6" C2 8-3" D 0-6" F1 -11" B 55-5" C2 8-3" C3 8-3" C2 8-3" C3 8-3" C2 8-3" C3 8-3" C2 8-3" C3 8-3" C	PH EXPC cubic Footing (in) 8' 20 23 23 26 22 24 22 24 22 24 22 24 22 24 22 24 22 24 22 24 23 33 34 25 29 31 31 32 33 34 21 19 29 19 21 19 24 25 24 25 25 31 31 32 32 33 34 31 32 31 32 32 33 34	DSURE C	trib Min 5.5.5' Type 12'.44" C1 8'.66" B 12'-10" C1 11'.55" B 10'.31" B 10'.31" B 10'.44" C2 26'.21" C2 26'.22" D 26'.88" D 30'.10" E 40'-0" F1 40'-0" F1 40'-0" F2 7'.88" A 15'.44" C2 22'.7" C2 22'.7" C2	cubic foo Uplift Footing M (in) 8' 21 23 24 25 23 23 22 24 25 27 25 25 23 32 21 26 24 26 25 27 28 28 28 31	ting "d" Constrained Footing (in) law Post Length 10' 12' 3 24 25 5 27 28 3 25 26 1 25 27 7 28 29 6 26 28 2 24 25 0 60 60 0 60 60 1 23 29 31 1 32 34 1 32 3	trib M Poi Poi 111-4" C R R Poi	Seism cubic cubic in Uplift footling in Uplift fo	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25 27 2: 23 25 27 2: 24 25 26 28 2: 25 26 28 2: 25 26 20 2: 27 29 30 30 32 3: 30 32 3: 31 33 3: 20 21 2: 21 22 20 21 2: 22 20 21 2: 25 26 28 2: 27 29 34 30 32 3: 31 33 33 3: 31 33 3: 33 33 33 3: 31 33 33 3:	trib 1 6.5' 10'-5' 10'-5'' 3 11'-7'' 5 10'-4'' 5 10'-4'' 7 13'-4'' 1 12'-7'' 1 12'-7'' 1 23'-6'' 1 24'-4'' 1 23'-6'' 1 24'-4'' 1 33'-5'' 1 24'-4'' 1 33'-5'	Min Pest Up Foo Min C1 B	cubic footing Con polify Footing Rev	g "d" g "d" statalined atting (in) Post Length 10' 12' 24 25 26 28 24 25 25 26 27 29 26 27 23 24 60 60 60 60 27 28 28 30 31 33 32 33 31 33 32 33 33 34 35 37 21 23 22 23 21 23 26 27 29 30 33 34	trib M PC	cubic Alin Uplift cost Footing Wee (in) co	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 2 23 23 24 25 26 2 23 24 26 27 22 24 26 2 21 23 25 26 26 2 21 23 25 26 27 2 24 26 2 21 23 3 30 31 3 31 33 3 33 35 3 31 33 35 3 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2 21 32 3	thib thib this control of the contro	Min U Fost Fo For Type C1 B C2 C1 B C2	Cream Crea	ting "d"	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6 17-6 17-6 17-6 17-6 17-6 17-6 17	cubic (n Uplift Footing (in) 21 25 24 23 26 26 23 25 27 31 32 33 37 22 26 22 27 30	Constitution Consti
"x2"x6.5" "x3"x8" Insert tia #1 tia #2 Steel C Steel C Steel C Steel C	V Load: Table 5.2b Detail On Slab L M K L M V N N N N S S S J AU P Q R	trib M Pec 12:-1" 1	Cubin Uplift Footing (in) 1 1 2 1 2 1 2 1 2 2 2 2 2 1 2 2 2 2 2	Footing "d" Constrained Footing (in) Max Post Length 8* 10' 12' 25 27 28 28 29 31 25 27 28 28 29 30 25 27 29 30 27 29 30 32 24 26 27 60 60 60 60 60 29 31 32 30 32 34 33 35 37 37 37 37 37 37 37 37 37 37 37 37 37 37 37 3	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 18'-10" 12'-10" 19'-3" 23'-2" 33'-6" 38'-6" 38'-6" 12'-4" 18'-2" 18'-2" 18'-2" 17'-2" 12'-5" 17'-2" 17'-2" 12'-5" 17'-2"	Min Post Footing (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 28 C2 29 D 30 A 20 B 23 A 18 B 22 C4 24 C5 25 Min Uplift	cooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25 26 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 21 22 33 30 31 31 30 31 31 30 31 31 33 35 36 30 31 31 33 35 36 32 34 36 37 34 36 38 30 31 34 36 38 30 31 34 36 38 30 21 22 22 23 24 19 20 21 25 27 28																														
 | trib 4' 17'-0" 10'-2" 13'-5" 12'-2" 17'-5" 12'-2" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-2" 35'-11" 40'-0" 11'-4" 17'-0" 11'-4" 17'-0" 11'-4" 16'-8" 21'-10" | Min Uplift Post Footing C1 A 20 B 21 C1 24 C1 23 B 21 C1 24 C1 24 C2 25 C2 29 C2 28 D 30 D 31 A 20 C1 23 B 21 C1 24 C2 25 C2 29 C2 28 D 30 C1 24 C1 23 C2 25 C3 26 C1 24 C1 23 C1 24 C2 25 C2 25 C3 26 C4 26 C5 26 C6 26 C7 26 C7 27 C8 27 C8 28 C9 26 C9 27 C9 28 C9 30 C1 23 C2 25 C3 25 C4 25 C5 25 C6 Min Uplift | Sign Loc | ad 16 bid trib gth 12 7 9'-6' 27 9'-6' 27 12'-7 28 11'-5 31 16'-8 29 16'-4 26 12'-5 60 11'-3 31 16'-2 32 19'-7 33 19'-7 33 19'-7 34 16'-0 21 10'-7 24 16'-0 21 8'-0' 28 16'-0 31 21'-0 35 22'-3 31 35 23'-3 35 23'-3 35 35'-3 36'-3 37 33'-9 38 40'-0 21 10'-7 24 16'-0 21 8'-0' 28 16'-0 31 21'-0 35 23'-5 | Min U Pest For Type III Pest For III Pest Fo | Cubic Footing 'Country Country | rd Special Spe | trib Min Peet 55 Type 683-71 C1 C1-11" A 3-3-4" B 55-5" C2 C2 C2 C2 C2 C3
 | PH EXPC cubic Footing 8' 20 23 23 23 26 22 24 24 25 22 24 24 25 22 22 21 60 24 27 24 25 29 31 31 32 39 31 29 31 29 31 29 31 29 31 31 32 33 34 21 19 24 21 19 19 24 21 19 19 24 25 27 28 28 21 Uplift F | DSURE C ing "d" or onstrained corting (in) at Post tength 10" 12" 25 26 26 27 28 30 27 28 24 25 66 66 60 28 29 31 33 34 34 36 36 38 32 21 22 23 20 21 26 28 29 31 33 35 cotting (in) | trib Min 5.5.' Type 12'.4" C1 8'.6" B 10'.3" B 10'.3" B 10'.4" B 10'.4" B 10'.4" C2 11'.5" B 10'.4" B 10'.4" B 10'.4" B 10'.4" C2 10'.4" C2 26'.2" D 26'.8" D 30'.10" F1 9'.6" B 14'.7" C2 20'.1" C2 trib Min | cubic foo Uplift Footing M (in) 8' 21 23 22 24 25 25 23 22 25 25 23 22 26 28 30 31 30 31 30 31 32 32 31 32 32 32 32 32 32 32 32 30 31 | oting "d" Constrained Footing (in) law Post tength 10' 12' 5 27 28 3 25 26 4 25 27 7 28 29 5 26 28 2 24 25 6 60 60 60 5 28 29 3 29 31 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1 32 34 1
32 34 1 32 34 1 32 34 1 32 34 1 33 35 5 35 Footing (in) | trib M Poi | Seism cubic cubic in Uplift st Footling per (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25' 25 27 22' 23 25 26 22' 23 26' 26' 26' 26' 27' 29' 30' 32' 33' 30' 32' 33' 31' 33' 33' 34' 36' 33' 32' 21' 22' 27' 29' 31' 30' 32' 33' 31' 33' 33' 31' 33' 33' 34' 36' 33' 32' 32' 32' 32' 32' 32' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 33' 35' 50' 50' 50' 50' 50' 50' 50' 50' 50' 5 | trib 1 6.5' 10'-5" 10'-5" 10'-5" 10'-4" 10'-4" 10'-4" 10'-3" 11'-7" 11'-5" 12'-7" 12'-4" 12'-4" 12'-7" 14'-8" 19'-3" 12'-7" 14'-8" 19'-3" 12'-7" 14'-8" 19'-3" 14'-8" 19'-3" 14'-8" 19'-3" 14'-8" 19'-3" 14'-8" 19'-3" 14'-8" 19'-3" 14'-8" | Min Up Pest C C C C C C C C C
 | cubic footing Con olifit Footing 8' 22 24 25 23 23 23 22 23 25 25 26 25 24 23 22 20 25 25 26 27 30 30 30 30 30 30 30 30 30 30 30 30 30 | g "d" g "d" stytained sting (in) Post Length 10' 12' 24 25 26 28 24 25 25 26 27 29 26 27 23 24 60 60 60 60 27 28 28 30 31 33 32 33 33 34 35 37 21 23 22 23 21 23 26 27 29 30 33 34 sting (in) | trib M PR | Cubic Alin Uplift Options Control C | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 22 23 24 25 25 26 2 23 24 26 27 2 24 26 27 2 26 27 20 26 28 2 27 29 31 3 30 31 3 31 33 35 3 21 22 2 21 22 2 24 26 2 21 22 2 24 26 2 27 29 31 30 31 33 31 33 35 21 22 2 24 26 27 27 29 30 Footing (in) | trib trib trib trib trib trib trib trib
 | Min U Post Fo Type C1 B C2 C1 B C2 C2 C1 B C2 | Polifit Feb. Company | ing "d" constrained control [in] ax Post Length 10' 12' 23 24 26 27 24 25 27 28 25 26 26 27 28 29 31 32 31 33 32 34 35 36 22 23 24 25 25 26 27 28 29 31 32 27 28 29 31 32 32 34 35 36 32 34 35 36 32 34 35 36 36 27 39 30 30 32 30 34 31 33 31 33 32 34 33 34 35 36 36 37 37 38 38 38 39 39 30 3 | trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6 17-6 17-6 17-6 17-6 17-6 17-6 17 | cubic (n Uplift Footing (in) 21 25 24 23 26 26 23 25 27 31 32 33 37 22 26 22 27 30 | Construction 7 c 1 c | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "x2"x6.5" "x3"x8" nsert ia #1 ia #2 Steel C Steel C af | V Load: Table 5.2b Detail On Slab L M K L W U V N N N N S S S J AU P Q R T | trib M PP P | Cubin Uplift Footing (in) 19 21 21 20 23 22 21 20 23 24 27 27 28 28 20 20 21 20 21 20 21 20 23 24 27 27 28 28 20 20 21 20 20 21 20 20 20 21 20 20 21 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20 | Constrained Footing (in) Max Post Length St 1 25 27 28 28 29 31 25 27 28 26 28 29 30 32 27 29 30 32 34 36 38 33 35 37 33 35 37 34 36 38 30 20 21 22 23 25 29 30 32 24 26 27 29 30 32 34 36 38 30 37 34 36 38 20 21 22 22 33 25 4 36 38 30 37 34 36 38 30 37 37 37 37 37 37 37 37 37 37 37 37 37 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 33'-6" 34'-1" 33'-6" 34'-1" 31'-2" 22'-5" 17'-2" 22'-5" 10' | Ad: 10 cubic Min Uplift Fost Footing (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 29 D 30 A 20 A 20 B 23 B 21 C2 25 C3 28 C4 29 C5 28 C7 29 C7 28 C8 29 C9 30 C9 20 C | cotting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 29 30 25 26 28 26 27 28 30 31 27 28 30 24 25 26 28 30 31 30 31 33 30 31 33 30 31 33 30 31 33 31 35 36 32 34 36 32 34 36 32 34 36 32 34 36 34 36 38 30 21 22 22 23 24 25 27 28 28 30 31 5 27 28 28 30 31 5 20 21 5 27 28 28 30 31 5 20 21 5 27 28 28 30 31 5 60 5 60 5 60 5 60 5 60 5 60 5 60 5 60 | trib 4' 17'-0" 10'-2" 13'-5" 12'-2" 13'-5" 17'-9" 17'-5" 13'3" 12'-0" 11'-4" 11'-4" 17'-0" 11'-4" 17'-0" 11'-4" 17'-0" 11'-4" 17'-0" 11'-4" 17'-0" 11'-4" 11'-4" 11'-4" | Min Uplift Post Footing | Sign Loc ic footing "d" Constraine Footing (In # Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 24 26 25 27 28 29 26 28 29 26 28 29 26 28 29 27 28 29 28 29 29 31 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 33 35 34 36 19 20 21 23 19 20 25 27 28 30 32 34 Footing (In | ad 16 strib | Min U Pest Fo Type " C1 | Constitution of the consti | rd Special Spe | trib Min Peat 155 Type 23-77 C1 -111" A 3-3-4" B 05-5" C2 8-5-4" C2 1-15" D 05-6" C2 8-5-5" C2 8-5" C2 8-5" C2 8-5" C2 8-5" C2 8-5" C2 8-5" C2 8-5 | PH EXPC cubic Footing Market (In) 8 2 3 26 22 24 24 27 22 24 27 22 22 21 60 24 27 28 29 31 31 32 26 28 29 31 31 32 27 28 28 31 32 4 21 19 19 24 25 27 28 28 31 19 19 19 19 19 19 19 19 19 19 19 19 19 | DSURE C ing "d" constrained costing (in) ix Post tength 10" 12" 25 26 27 29 25 26 26 27 28 30 27 28 24 25 26 06 28 29 29 31 33 34 34 36 36 36 36 36 20 21 22 23 20 21 26 28 29 31 30 31 3 | trib Min 5.5.' Type 12'.4" C1 8'.6" B 12'.10" C1 11'.5" B 10'.3" B 14'.3" C2 11'.3" B 14'.3" C2 17'.4" C2 26'.2" D 26'.8" D 30'.10" F1 9'.6" B 14'.7" C2 20'.1" C2 20'.1" C2 21'.1" C2 11'.1" C2 15'.4" C2 | Cubic foo Uplift Footing M (in) 8' 21 23 22 24 25 25 25 25 22 26 24 26 24 26 26 28 30 31 30 31 32 32 32 32 32 32 30 31 30 31 30 31 31 32 32 32 32 30 31 30 | ting "d" Constrained Footing (in) law Post Length 3 | trib Melon M | Seism cubic tubic tub | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25 27 2: 23 25 27 2: 24 25 26 28 2: 25 26 28 2: 25 26 20 2: 27 29 30 30 32 3: 30 32 3: 31 33 3: 20 21 2: 21 22 20 21 2: 22 20 21 2: 25 26 28 2: 27 29 34 30 32 3: 31 33 33 3: 31 33 3: 33 33 33 3: 31 33 33 3: | trib 1 6.5' 10'.5" 10'.5" 10'.5" 10'.4" 10'.4" 10'.4" 10'.4" 10'.4" 10'.5" 12'.7" 12'.7" 12'.7" 12'.7" 12'.7" 12'.7" 12'.7" 12'.7" 14'.8" 12'.7" 14'.8" 19'.3" 19'.3" 19'.3" 19'.3" 19'.3" 11'.4" | Min Post Food 1 | cubic footing Con polific Footing Rev Part | g "d" strtained titing (in) Post Length 10' 12' 28 26 28 24 25 25 26 27 29 26 27 29 26 27 29 33 24 60 60 60 27 28 28 30 31 33 32 33 32 33 33 34 35 37 21 23 22 23 21 23 22 23 21 23 26 27 29 30 33 34 bting (in) Post Length | trib M PC | Cubic Alin Uplift ost Footing (in) C1 B 21 C2 24 C1 23 B 23 C2 25 C2 26 C2 25 C3 25 C2 25 C3 31 D 31 E 33 F1 36 B 22 C2 25 C2 25 C2 26 C2 25 C2 26 C2 25 C2 26 C2 25 C2 26 C2 25 C3 31 D 31 E 33 F1 36 B 22 C2 25 C2 27 C3 30 July lift coing (on) Cycle (oing) | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 2 23 23 24 25 26 2 23 24 26 27 22 24 26 2 21 23 25 26 26 2 21 23 25 26 27 2 24 26 2 21 23 3 30 31 3 31 33 3 33 35 3 31 33 35 3 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2 21 22 2 21 32 3 | trib the trib trib trib trib trib trib trib trib | Min U Post Fo Type C1 B C2 C2 C2 C2 C2 C C C C C C C C C C C | Delift Continue | ting "d" | trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6 17-6 17-6 17-6 17-6 17-6 17-6 17 | cubic (n Uplift Footing (in) 21 25 24 23 26 26 23 25 27 31 32 33 37 22 26 22 27 30 | Constitution Consti |
| "x2"x6.5" "x3"x8" Insert cia #1 cia #2 Steel C Steel C Steel C Steel C steel C | V Load: Table 5.2b Detail On Slab L M K L W U V N N N S S S J AU P Q R T Detail On Slab | trib M Pec 12:-1" / 12:-2" / 12:-1" / 12:-2" / 12:-1" / 12:-2" / 12:-1" / 12:-2" / 1 | Cubin Uplift Footing (in) 19 21 21 20 23 22 21 20 23 24 27 27 28 28 20 22 21 21 23 24 25 26 26 27 21 23 24 25 26 26 26 27 21 23 24 25 26 26 26 27 21 23 24 25 26 26 26 27 21 23 24 25 26 26 27 21 23 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26 | Constrained Footing (in) Max Post Length Max P | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 12'-10" 12'-4" 33'-6" 40'-0" 12'-4" 18'-2" 8'-7" 17'-2" 22'-5" 25'-3" trib 10' 6'-9" | Ad: 10 cubic Min Uplift Footling Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 29 D 30 A 20 B 23 A 18 B 23 A 18 B 23 A 18 B 22 C2 25 C2 28 C2 29 C3 29 C4 25 C5 25 C5 28 C6 29 C7 29 C8 28 C7 29 C8 28 C7 29 C8 28 C8 29 C9 29 C9 30 | cotting "d" Constrained Footing (in) Max Post Length 8' 100' 12' 25 26 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 26 26 27 28 30 31 33 30 31 33 30 31 33 33 35 36 32 34 36 32 34 36 32 34 36 34 36 37 34 36 38 30 31 30 | trib 4' 17-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 17'-5" 13'-3" 12'-0" 17'-7" 17'-0" 8'-4" 17'-0" 8'-4" 16'-8" 21'-10" 24'-6" 1rib | Min Uplitt | Sign Loc Cooting "d" Constraine Footing (In Max Post Leng 8" 10" Constraine Footing (In Max Post Leng 8" 10" Constraine Constraine Cooting (In Coo | ad 16 dd trib dd trib 12' 4.5' 15'-1 27 9'-6' 29 14'-2 27 12'-7 28 11'-5' 31 16'-8 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-3 31 16'-2 31 16'-3 31 | Min V Post Fo Type V Post Fo Type V Post Fo Type V Post Fo Post | Constitution of the control of the c | rd Special Spe | trib Min Post | PH EXPC cubic Footing Uplift Footing A 20 23 23 26 22 24 24 27 24 25 22 22 21 60 24 27 26 28 29 31 31 32 33 34 29 31 29 31 29 31 29 31 31 32 33 34 29 31 31 32 33 34 31 32 33 34 34 32 33 34 34 32 33 34 34 39 31 31 32 31 38 31 39 32 33 34 31 39 32 33 34 31 39 32 33 34 39 39 39 31 30 31 31 32 31 38 31 39 32 39 31 39 32 39 31 39 32 39 34 39 35 39 36 39 37 38 39 39 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30 | DSURE C Ing "d" Ing | trib Min Post 12'-4" C1 11'-5" B 12'-10" C1 11'-5" B 15'-2" C2 14'-9" C2 14'-9" C2 16'-2" D 26'-2" D 26'-2" D 26'-8" D 30'-10" E 40'-0" F1 9'-6" B 14'-7" C2 20'-1" C2 22'-7" C2 trib Min Post 14'-10" C1 14'-7" C2 14'-10" C1 | Cubic foo Cubic | ting "d" Constrained Footing (in) as Post tength 3 24 25 5 27 28 3 25 26 4 25 27 7 28 29 6 26 28 2 24 25 0 60 | trib M Poi 11'-4" C 8"-0" B 12'-2" C 10'-10" B 14'-5" C 14'-5" C 14'-5" C 14'-6" C 19'-9" B 13'-4" C 24'-9" C 24'-6" C 19'-9" C 15'-1" C | Seism cubic in Uplift to Footing point 1 1 1 24 3 23 3 22 2 25 2 25 2 25 2 25 2 25 2 25 | footing "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 27 22 23 25 26 22 23 24 25 26 26 27 29 30 32 33 31 33 33 34 36 31 32 32 33 31 33 33 33 33 33 33 33 33 35 36 36 26 27 29 29 30 30 32 33 31 33 33 34 36 31 33 35 35 36 37 37 37 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39 | trib 1 6.5' 10'-5" 10'-5" 10'-5" 10'-4" 10' | Min Up Foot Foot State S | cubic footing Con | g "d" g "d" g "d" g "d" love tempth of the properties of the prope | trib M PC | cubic Alin Uplift ost Footlag (in) C1 B 21 C2 24 C1 23 B 23 C2 25 C1 23 C2 26 C2 26 C2 25 C1 23 C2 25 C1 23 C2 25 C1 23 C2 25 C2 26 C2 26 C2 25 C2 26 C2 26 C2 26 C2 25 C2 27 D 31 E 33 C2 25 C2 27 C3 34 C4 26 C5 26 C6 27 C7 27 C7 29 C8 20 C8 20 C8 20 C9 20 | footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 1: 22 23 24 25 26 27 24 26 27 24 26 27 25 26 26 26 27 2 26 27 2 27 29 31 31 33 33 31 33 33 31 32 32 21 22 2 | trib th th trib th trib th trib trib trib trib trib trib trib trib | Min U Post Fo Type C1 B C2 C1 B C2 C2 C2 D E F1 F1 F1 B C2 D D Min U Post Fo Type C1 | Company Comp | ting "d" | trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6 17-6 17-6 17-6 17-6 17-6 17-6 17 | cubic (n Uplift Footing (in) 21 25 24 23 26 26 23 25 27 31 32 33 37 22 26 22 27 30 | Conting "C Construction of Con |
| y"x2"x6.5" "s"x3"x8" Insert cia #1 cia #2 Steel C Steel C Steel C saf averleaf | V Load: Table 5.2b Detail On Slab L M K L U V N N N S S S J AU P Q R T Detail On Slab L | trib M P P P P P P P P P P P P P P P P P P | Cubin Uplift Footing (in) 19 21 21 20 22 21 20 23 24 27 27 27 27 27 27 27 27 27 27 27 27 27 | Constrained Footing (in) Max Post Length R 29 30 32 24 26 28 30 32 27 29 30 32 32 34 36 38 34 36 38 34 36 38 34 36 38 34 36 38 34 36 38 36 37 39 31 32 32 32 34 36 Footing (in) Max Post Length R 20 20 30 32 32 34 36 Footing (in) Max Post Length R 20 12 22 23 25 29 30 32 32 34 36 Footing (in) Max Post Length R 10 12 22 23 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 38'-6" 40'-0" 12'-4" 18'-2" 8'-7" 17'-2" 22'-5" 25'-3" trib 10' 6'-9" 5'-8" | Ad: 10 cubic Min Uplift Footing Footing CI A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 CI 23 C2 25 C2 28 C3 29 D 30 | cooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 60 60 60 60 60 60 28 30 31 30 31 33 33 35 36 32 34 36 37 34 36 38 30 31 32 34 36 38 30 31 31 33 35 36 37 34 36 38 38 39 31 39 31 30 31 31 33 35 36 37 34 36 38 38 37 39 31 32 39 31
32 39 31 32 39 30 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 39 31 32 30 31 32 30 31 32 30 31 32 30 3 | trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-5" 31'-6" 31'-4" 16'-8" 21'-10" 24'-6" trib 11' 6'-2" | Min Uplift Post Footing | Sign Loc ic footing "d" Constraine Footing (in Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 29 26 60 60 28 29 29 31 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 33 35 34 36 39 20 21 23 19 20 25 27 28 30 32 34 Footing (in Max Post Leng 8" 10" | ad 16 dd 16 dd 17 dd 17 dd 18 dd 17 dd 18 dd | Min U Pest Fo Type U C1 | Constitution of the consti | rd Speed "d" "
 | trib Min Pest - 5° Type - | PH EXPC cubic Footing Market (in) 8' 20 23 23 26 22 24 22 24 22 24 25 22 21 60 24 27 26 28 29 31 29 31 31 32 33 34 21 19 29 31 19 19 24 21 19 19 24 25 27 28 28 31 Upliff Feoting Market Footing Market 8' | DSURE C Ing "d" Constrained tooting (in) ax Post tength 10' 12' 25 26 27 29 25 26 27 29 25 26 27 28 20 27 28 30 27 28 24 25 60 60 28 29 21 33 34 33 34 36 38 30 38 30 21 22 23 20 21 26 28 20 21 26 28 20 21 26 28 20 21 27 28 28 29 29 31 31 33 34 34 36 36 38 30 31 30 38 30 38 30 38 30 38 30 38 30 38 30 38 30 38 30 31 30 38 30 38 30 31 30 | trib Min Post Type 12'-44" C1 8'-6" B 12'-10' C1 11'-5" B 10'-3" B 15'-2" C2 14'-9" C2 11'-3" B 10'-4" B 14'-3" C2 26'-2" D 26'-8" D 30'-10' E 40'-0" F1 40'-0" C2 22'-7" C2 22'-7" C2 21'-7" C2 21' | cubic foo Uplift Footing M (in) 8' 21 23 24 25 23 23 25 27 25 25 24 26 26 28 30 31 | ting "d" Constrained Footing (in) law Post Length 10' 12' 3 24 25 5 27 28 3 25 26 1 25 27 7 28 29 6 26 28 2 24 25 0 60 60 5 28 29 3 29 31 1 32 34 1 | trib M Poi 11'-4" C 8'-0" B 12'-2" C 10'-10" B 14'-5" C 14'-0" C 14'-0" C 24'-9" C
 | Seism cubic cubic in Uplift footing p(in) 1 1 1 24 3 23 4 22 2 25 2 25 2 25 3 22 2 25 3 22 2 25 3 22 2 25 4 22 2 25 2 | footing "d" Constrained Footing (in) Max Post Lengtl (in) Max Foot Lengt | trib 1 6.5' 10'-5" 10'-5" 10'-5" 10'-6" 10'-4" 10'-4" 10'-4" 10'-4" 10'-4" 10'-4" 10'-4" 10'-4" 10'-4" 10'-5" 10'-4" 10'-5" 10'-6" 10' | Min Post Food In In Post Food In In Post Food In | cubic footing Con polific Foo Max 1 in Polific Foo Max 2 in Polific Foo Max 2 in Polific Foo Max 3 in Polific Foo Max 4 in Polific Foo Max 1 in Polific Foo Max 6 in Polific Foo Max 6 in Polific Foo Max 6 in Polific Foo Max 7 in Polific Foo Max 6 in Polific Foo Max 6 in Max | g "d" g "d" statalined titing (in) Post Length 24 25 26 28 24 25 25 26 27 29 26 27 23 24 60 60 60 60 27 28 28 30 31 33 32 33 33 34 35 37 21 23 22 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 22 23 21 23 21 23 21 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 21 23 22 23 21 23 22 23 21 23 22 23 21 23 22 23 21 23 22 23 21 23 22 23 23 24 24 25 25 26 27 28 | trib M PC | Cubic Alin Uplift out Footing Wee (in) C1 B 21 C2 24 C1 23 B 23 C2 25 C3 25 C3 25 C4 25 C5 26 C6 22 25 C7 20 31 C7 31 C8 36 C9 25 C9 31 C9 | footing "d"
Constrained Footing (in) Max Post Lengtl 8' 10' 1: 22 23 24 2 25 26 2 23 24 4 2 26 27 2 24 26 2 21 23 24 26 26 27 2 24 26 28 26 27 2 26 28 2 27 29 31 3 30 31 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 33 33 3 31 32 3 5 5 5 6 5 2 5 2 5 2 5 2 5 5 5 5 5 5 5 5 | trib trib trib trib trib trib trib trib | Min U Post Fo Type C C C C C C C C C C C C C C C C C C C | Create Cre | ting "d" constrained conting (in) ax Post tength 10" 12" 23 24 26 27 24 25 24 25 27 28 25 26 20 27 28 29 31 32 31 33 32 34 35 36 22 23 31 32 24 25 25 26 27 28 29 31 32 32 34 35 36 22 23 36 27 28 29 30 32 34 20 23 32 34 22 23 33 32 34 24 22 23 26 27 29 30 32 34 | trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6-8 13-1 17-6 17-6 17-6 17-6 17-6 17-6 17-6 17 | cubic f n Uplift Footing (in) 21 25 24 23 26 26 26 27 31 32 37 22 26 27 30 31
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""x2"x6.5" ""x3"x8" Insert cia #1 cia #2 Steel C Steel C Steel C steel C steel C steel C "x3"x8" ""x3"x8" Insert	V Load: Table 5.2b Detail On Slab L M K L M V N N N S S S J AU P Q R T Detail On Slab L M W U V N N N N S S S S J AU P C R T Detail On Slab K L M M W U V N N N N N S S S S J AU P R T Detail On Slab K K L M M W W W W	trib M Fee 3 T T T S T S T S T S T S T S T S T S T	Cubin Uplift Footing (in) 19 21 21 20 23 22 21 20 23 24 27 27 28 28 28 20 22 21 27 27 28 28 29 20 20 21 27 27 28 28 20 20 22 21 27 27 28 28 20 20 22 21 27 27 28 28 28 29 20 20 20 21 27 21 23 24 20 22 27 27 28 28 29 20 20 20 20 20 20 21 27 20 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Footing "d" Constrained Footing (in) Max Post Length Research Footing (in) Max Post Length Research Res	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 19'-3" 34'-1" 33'-6" 40'-0" 12'-4" 12'-2" 22'-5" 25'-3" trib 10' 6'-9" 5'-8" 9'-0" 7'-2" 10'-10'	Ad: 10 cubic Min Uplift Footling Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 29 D 30 A 20 B 23 A 18 B 23 A 20 C1 23 C2 25 C2 28 C2 29 C3 28 C4 29 C5 25 C6 25 C7 29 C8 28 C8 29 C9 29 C9 20 C	cooting "d" Constrained Footing [in] Max Post Length 8" 10" 12" 25	trib 4' 17-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 12'-2" 17'-9" 12'-0" 17'-7" 12'-0" 13'-3" 12'-0" 17'-7" 12'-0" 11'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-6" 11'-4" 17'-0" 8'-6" 10'-3" 8'-5" 6'-8" 10'-3"	Min Uplitt Post Feeting Lubib Lupitt Post Feeting Lupitt Post Post Feeting Lupitt Post Post Post Feeting Lupitt Post Feeting Lup	Sign Loc Cooting "d" Constraine Footing (In Max Post Leng 8" 10" 24 25 27 28 29 26 28 29 26 28 29 26 28 29 26 28 29 29 31 32 34 36 32 34 36 39 20 21 23 39 30 32 34 Footing (In Max Post Leng 8" 10" 1	ad 16 d trib	Min U Post Fo	Constitution of the consti	rd Speed of the strength of th	trib Min Post 1	PH EXPC cubic Footing Ma (fin) 8° 20 23 23 26 22 24 24 27 24 25 22 21 60 24 27 24 27 26 28 29 31 31 32 26 28 29 31 29 31 31 32 27 28 31 34 21 19 19 21 19 22 24 24 27 28 31 29 31 31 32 32 33 34 34 35 35 36 36 37 37 38 38 38 38 38 39 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	DSURE C Ing "d" Ing	trib Min Post 5.5' Type 12'-4" C1 8'-6" B 12'-10" C1 11'-5" B 15'-2" C2 14'-9" C2 14'-9" C2 15'-2" D26'-8" D30'-10" E 14'-7" C2 25'-2" C2 15'-4" C2 20'-1" C2 22'-7" C2 15'-4" C2 25'-9" C2 55'-9" C2	Cubic foo Cubic	ting "d" Constrained Footing (in) as Post tength 3 24 25 5 27 28 3 25 26 4 25 27 7 28 29 6 26 28 2 24 25 6 26 28 2 24 25 6 3 29 31 1 32 34 1 32 34 2 34 35 2 31 22 3 2 34 2 34 35 3 2 34 2 34 35 3 2 34 3 3 3 35 6 38 6 38 6 38 7 2 1 22 7 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	trib M Poi 111-4" C 8"-0" E 12'-2" C 10'-10" E 14'-5" C 14'-0" C 14'-0" C 13'-4" C 24'-9" C 24'-9" C 25'-5" C 22'-2" C 1tib Mi 15'-1" C 4'-2" E 6'-11" C 6'-5" C 5'-6" C 8'-7" C 8'-7" C	Seism cubic tubic tub	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 23 24 22' 25 27 22 23 25 26 28 22' 26 28 22' 25 26 28 22' 26 27 22' 27 29 33 30 32 33 30 32 33 30 32 33 34 36 33 20 21 22' 27 29 33 30 32 33 34 36 33 34 36 33 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	trib 1 6.5' 10'-5' 10'-5' 3 11'-7' 3 11'-7' 3 11'-7' 4 13'-5' 10'-4' 4 13'-5' 10'-5'	Min Upp Pest Foo Type Min Upp Pest Pest Pest Pest Pest Pest Pest Pest	cubic footing Con olift Foo olift Fo	g "d" g "d" g "d" 24	trib M PC 7	Cubic Alin Uplift ost Footing (m) C1 B 21 C2 24 C1 23 B 23 C2 25 C1 23 B 23 C2 25 C2 27 D 31 D 31 E 33 F1 36 B 21 C2 27 C2 27 C2 27 C3 30 M Uplift ost Footing (m) C1 B 23 C2 27 C2 29 C3 A C4 A C5 A C6 A C7 A	The image	thib thib thib thib thib thib thib thib	Min U Post Fo Type C1 B C2 C2 D E F1 F1 F1 B C2 D D D Min U Post Fo Type C1 B C2 C2 C2 D C2 C2 D D D D D D D D D D D	Company Comp	ting "d"	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 17-6 18-1 18-1 18-1 18-1 18-1 18-1 18-1 18	cubic for the footing of the footing	Construction (Construction Construction Cons
""""""""""""""""""""""""""""""""""""""	V Load: Table S.2b Detail On Slab L M K L U V N N N S S S J AU P Q R T Detail On Slab L M W U V V N N N N S S S J AU P Q R T Detail On Slab L M M K L M V V V V V V V V V V V V V V V V V V	trib M P P P P P P P P P P P P P P P P P P	Cubin Uplift Footing (in) 19 21 20 21 20 22 21 20 23 24 27 27 28 28 20 21 27 28 28 29 20 21 27 28 28 29 20 20 21 27 28 28 29 20 20 20 21 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Cooting "d" Cooting (in) Max Post Length Residue	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 38'-6" 40'-0" 12'-4" 18'-2" 8'-7" 17'-2" 22'-5" 25'-3" trib 10' 6'-9" 5'-8" 9'-0" 8'-2" 10'-10"	Ad: 10 cubic Min Uplift Footing Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C3 29 D 30 D	cooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 26 30 60 60 28 30 31 33 35 36 32 34 36 32 34 36 32 34 36 32 34 36 32 32 34 36 38 30 31 32 34 36 37 34 36 38 30 31 32 34 36 37 34 36 38 37 34 36 38 37 34 36 38 37 34 36 38 37 34 36 38 37 38 36 38 39 31 39 31 30 31 31 33 31 35 36 32 34 36 38 36 39 31 39 31 30 31 31 33 31 35 36 32 34 36 38 39 31 31 32 34 36 38 39 31 30 31 31 32 34 36 38 39 31 30 31 31 32 34 36 38 39 31 30 31 31 32 34 36 38 39 31 30 31 31 32 34 36 31 32 34 35 Footing (in) Max Post Length 8" 10" 12" 28 24 25 29 34 25 24 25 24 26 27 23 24 25 24 26 27 23 24 25	trib 4' 17'-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-2" 31'-5" 31'-6" 11'-4" 16'-8" 21'-10' 24'-6" trib 11' 6'-2" 8'-5" 7'-8" 6'-8" 10'-3" 9'-9"	Min Uplift Post Footing	Sign Loc ic footing "d" Constraine Footing (in Max Post Leng 8" 10" 24 25 27 28 24 26 25 27 28 29 26 28 29 26 60 60 28 29 29 31 32 34 32	ad 16 did bly trib gth 12 4.5' 27 9'-6' 29 14'-2 27 12'-7 31 16'-8 31 16'-8 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 10'-7 35 29'-3 35 29'-3 37 33'-9 38 40'-0 21 8'-0' 21 8'-0' 21 8'-0' 21 8'-0' 25 5'-0' 26 5'-0' 26 5'-0' 26 5'-0' 26 6'-4' 27 9'-9' 26 6'-4' 27 9'-9' 26 6'-4' 27 9'-9' 26 6'-4' 27 9'-9' 26 6'-4'	Min U Pest Fo Type I C1	Constitution Consti	rd Special Spe	trib Min Pest - 5° Type -	PH EXPC cubic Footing Man (in) 8' 20 23 23 26 22 24 22 24 22 24 25 22 21 60 24 27 26 28 29 31 31 32 26 29 31 31 32 33 34 27 29 31 31 32 29 31 19 20 23 23 32 32 32 32 32 32 32 32 32 32 32	DSURE C Company Comp	trib Min Post Type 12'-44" C1 8'-6" B 13'-2" C2 14'-9" C2 14'-9" C2 11'-3" B 10'-4" B 14'-3" C2 26'-2" D 26'-8" D 30'-10" E 10'-4" C2 26'-2" C2 22'-7" C2 22'-7" C2 25'-4" C2 26'-2" C2 25'-4" C2 26'-2" C2 25'-4" C2 26'-4" C2 6'-8" C2 8'-4" C	Cubic foo Uplift Footing M (in) 8' 21 23 24 25 23 23 25 25 25 25 24 26 26 28 30 31	ting "d" Constrained Footing (in) law Post Length 10' 12' 3 24 25 5 27 28 3 25 26 1 25 27 7 28 29 6 26 28 2 24 25 6 60 60 6 08 29 3 29 31 3 2 34 3 3 35 5 2 6 27 6 2 7 6 2 6 27 6 2 6 27 6 2 6 27 6 2 6 27 6 2 7 6 2 6 27 6 2 7 6 2 6 27 6 2 7 6 2 6 27 6 2 7 6 2 7 6 2 8 6 2 7 7 2 8 8 2 9 8	trib M Poi 11'-4" C 8'-0" B 12'-2" C 10'-10" B 14'-5" C 14'-0" C 14'-0" C 13'-4" C 24'-9" C 39'-4" F 15'-1" C	Seism cubic cubic in Uplift footing in Uplift 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25 27 21 25	trib 1	Min Pest Food State Stat	cubic footing Compositing Footing Review Rev	g "d" g "d" statalined atting (in) Post Length 24 25 26 28 24 25 26 27 29 26 27 29 26 27 29 28 30 31 33 32 33 34 33 34 35 37 21 23 24 23 22 23 24 29 30 31 33 34 31 32 33 34 32 31 32 33 34 32 31 32 32 32 32 33 32 32 32 33 34 32 32 32 33 34 32 32 32 32 33 34 32 32 32 32 32 32 32 32 32 32 32 32 32 3	trib M PC	Cubic Alin Uplift cost Footing with earlier and earli	The state of the	thib thib thib thib thib thib thib thib	Min U Post Fo C2 C2 C2 C2 D D Min U Post Fo C2	Company Comp	ting "d" constrained conting (in) ax Post tength 10" 12" 23 24 26 27 24 25 27 28 25 26 26 27 28 29 31 32 31 33 32 34 26 27 28 29 31 32 32 34 26 27 28 29 31 32 32 34 35 36 22 23 36 27 39 30 32 30 34 30 32 34 30	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 17-6 18-1 18-1 18-1 18-1 18-1 18-1 18-1 18	cubic for the footing of the footing	Construction of the constr
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""""""""""""""""""""""""""""""""""""""	V Load: Table S.2b Detail On Slab L M K L M V N N N S S S J AU P Q R T Detail On Slab L M W U V N N N N N S S S J AU P Q R T Detail On Slab L M M K L M N N N N N N N N N N N N N N N N N N	trib M P P P P P P P P P P P P P P P P P P	Cubin Upliff Footing (in) 19 21 20 21 20 22 21 20 23 24 27 27 28 28 29 20 21 27 27 28 28 29 20 20 21 27 27 28 28 29 20 20 21 27 27 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Cooting "d" Cooting (in) Max Post Length Res 10" 12" Cooting (in) Max Post Length Res 10" 12" Cooting (in) Max Post Length Res 10" Cooting (in) Cooting	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 23'-2" 34'-1" 33'-6" 33'-6" 40'-0" 12'-4" 18'-2" 8'-7" 17'-2" 22'-5" 25'-3" trib 10' 6'-9" 5'-8" 9'-0" 8'-2" 10'-10" 10'-4" 8'-0" 7'-7" 8'-0"	Ad: 10 cubic Min Post Footing Footing Post Footing Type (In) A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 29 D 30 A 20 B 23 A 18 B 22 C4 22 C5 25 C7 29 C7 20 C7 25 C8 26 C9 26 C9 27 C1 24 C2 27 C2 25 C2 28 C2 26 C2 26 C3 26 C4 22 C5 25 C7 26 C7 27 C7 27 C7 25 C7 25 C7 27 C7 25 C7 25 C7 26 C7 27 C7 25 C7 27 C7 25 C7 28	cooting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 26 30 60 60 60 28 30 31 33 35 36 31 33 33 35 36 32 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 37 34 36 38 37 39 21 22 23 24 29 21 25 27 28 30 31 32 34 35 Footing (in) Max Post Length 8' 10' 12' 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 23 24 25 24 26 27 25 26 27 27 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	trib 4' 17'-0" 10'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-2" 31'-5" 31'-6" 11'-4" 16'-8" 21'-10' 24'-6" trib 11' 6'-2" 15'-3" 8'-5" 7'-8" 10'-3" 9'-9" 7'-6" 7'-3" 7'-6"	Min Uplift	Sign Loc Constraine Footing (In Constraine Footing (In Max Post Leng 8' 10' 24 25 27 28 24 26 25 27 28 29 26 28 29 26 28 23 25 60 60 28 29 29 31 32 34 32	ad 16 did 17 did 17 dist 16 15'-1 27 9'-6'-6 29 14'-2 27 12'-7 31 16'-8 31 16'-8 31 16'-8 31 16'-2 31 16'-2 31 16'-2 31 10'-7 35 29'-3 36 29'-3 36 29'-3 37 33'-9 37 33'-9 40'-0 26 8'-0' 26 5'-0' 26 5'-0' 26 6'-4' 27 9'-9'-1 26 7'-2' 26 7'-2' 27 9'-1'	Min U Pest Fo Type I C1	Constitution Consti	rd Speed of the strength of th	trib Min Pest - 5° Type -	PH EXPC cubic Footing Man (in) 8' 20 23 23 26 22 24 22 24 22 24 27 24 25 22 21 60 28 29 31 33 34 27 29 31 31 32 26 28 29 31 19 19 19 24 21 19 19 19 24 25 25 24 25 26 28 28 28 31 Upliff Feoting 8' 20 22 24 26 24 24 27 28 24 28 24 28 24 28 24 28 24 28 24 25 24 28 24 25 24 28 24 28 24 28 24 25 24 28 24 25 24 28 24 25 24 28 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24	DSURE C Company Comp	trib Min Post Type 12'-44" C1 8'-6" B 12'-10" C2 14'-9" C2 14'-9" C2 14'-9" C2 16'-8" D 26'-8" C2 22'-7" C2 15'-8" C2 22'-7" C2 15'-8" C2 26'-8" C2 26'-8" C2 26'-8" C2 26'-8" C2 26'-8" C2 26'-8" C2 8'-4" C2 6'-5" C2 8'-4" C2 6'-5" C2 8'-4" C2 6'-5" C2	Cubic foo Uplift Footing M (in) 8' 21 23 23 22 24 26 25 27 28 28 25 28 25 26 66 25 25 26 66 27 28	toting "d" Constrained Footing (in) law Post Length 3 24 25 5 27 28 3 25 26 1 25 27 7 28 29 6 26 28 2 24 25 0 60 60 1 32 34	trib M Poi 11'-4" C 8'-0" B 12'-2" C 10'-10" B 14'-5" C 14'-0" C 15'-1" C 14'-0" C 15'-1" C	Seism cubic cubic in Uplift footling in Uplift 1 1 1 2 2 2 2 3 3 2 2 2 2 5 3 3 3 2 2 2 2 5 3 3 3 3	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25 27 21 25	trib 1	Min Pest Food State Stat	cubic footing Compositing Services Compositing Compositing Services Compositing Services Compositing Compositing Services Compositing Composition Comp	g "d" g "d" statalined atting (in) Post Length 24 25 26 28 24 25 26 27 29 26 27 29 26 27 29 33 34 33 33 32 33 34 35 37 21 23 24 23 22 23 24 29 30 31 33 34 35 37 21 23 24 27 28 27 28 27 28 28 27 28 28 27 28 28 27 28 28 27 28 27 28 27 28 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 28 27 2	trib M PC	Cubic Alin Uplift Cost Footing (in) Cost Footing	The image is a second color of the image is a second color o	thib thib thib thib thib thib thib thib	Min U Post Fo C1 B C2	Polifit February Polifit P	ining "d" Constrained Conting (in) Law Foot Length Low Law Law Law Law Law Law Law Law Law La	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 17-6 18-1 18-1 18-1 18-1 18-1 18-1 18-1 18	cubic t n Uplift Footing (in) 21 25 24 23 26 26 26 27 31 32 27 31 32 26 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 26 26 27 30 31	Construction of the constr
""x2"x6.5" ""x3"x8" Insert cia #1 Steel C "x3"x8" ""x3"x8" Insert cia #1 cia #2	V Load: Table 5.2b Detail On Slab L M K L M W U V N N N S S S J AU P Q R T Detail On Slab L M K L W U V N N N N N N N N N N N N N N N N N N	trib M Pec 12:-8" 12:-1" 12:-8" 12:-1" 12:-8" 12:-1" 14:-4" 12:-8" 13:-10" 13:	Cubin Uplift Footing (in) 19 21 21 20 23 22 21 20 23 24 27 27 27 21 28 28 20 22 21 20 23 24 27 27 21 28 28 20 20 22 21 20 23 24 27 27 21 21 23 24 27 21 20 20 22 21 27 21 20 20 20 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Footing (in) Max Post Length 8' 10' 12' 25 27 28 28 29 31 25 27 28 28 29 31 25 27 28 27 29 30 32 27 29 30 32 34 36 38 34 36 38 34 36 38 34 36 38 34 36 38 34 36 38 35 37 34 36 38 34 36 38 35 37 34 36 38 36 38 37 39 31 32 32 34 36 38 35 37 34 36 38 36 38 37 36 38 38 37 36 39 21 22 22 23 25 30 12 12 22 23 24 25 26 27 28 29 30 32 20 21 22 22 23 24 25 26 27 28 29 30 32 20 21 22 22 23 24 25 26 27 28 25 26 27 23 24 25 26 27 23 25 26 24 25 26 27 28 28 30 31	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 12'-10" 19'-3" 34'-1" 33'-6" 40'-0" 12'-4" 18'-2" 22'-5" 25'-3" trib 10' 6'-9" 5'-8" 9'-0" 10'-4" 8'-0" 7'-2" 8'-9" 7'-2" 8'-9" 10'-10" 10'-4" 8'-9" 8'-9" 11'-4"	Ad: 10 cubic Cubic Min Uplift Footling Type (in) C1 A 19 B 22 B 21 A 20 B 23 B 23 B 21 A 20 C1 23 C2 25 C2 28 C2 29 D 30 A 18 B 23 A 18 B 22 C2 25 C2 28 C2 29 D 30 C1 23 C2 25 C2 28 C2 29 C3 29 C4 20 C5 25 C6 25 C7 26 C7 27 C7 27 C8 27 C9 25 C9 24 C9 25 C9 26 C9 25 C9 25 C9 25 C9 26 C9 25 C9 25 C9 26 C9 27 C9 25 C9 26 C9 27 C9 27 C9 27 C9 27 C9 25 C9 28 E 32	coting "d" Constrained Footing (in) Max Post Length 8' 10' 12' 25 26 27 27 29 30 25 26 28 26 27 28 28 30 31 27 28 30 24 25 26 28 30 31 30 31 33 30 31 33 30 31 33 30 31 33 30 31 33 30 31 33 30 32 34 36 36 37 32 34 36 32 34 36 32 34 36 32 34 36 32 34 36 32 34 36 32 32 34 35 37 Footing (in) Max Post Length 8' 10' 12' 27 32 24 28 30 21 29 21 29 22 23 24 20 21 21 22 22 23 24 25 27 28 28 30 31 29 21 29 21 29 21 29 21 29 21 29 21 29 21 29 21 29 21 20 21 21 22 23 24 25 27 28 29 31 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 25 23 24 26 25 26 27 28 29 31	trib 4' 17-0" 10'-2" 15'-2" 13'-5" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 13'-3" 12'-0" 17'-7" 40'-0" 11'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-4" 17'-0" 8'-8" 11'-10" 24'-6" 11' 6'-2" 5'-3" 8'-5" 7'-8" 6'-8" 10'-3" 9'-9" 7'-6" 7'-3" 7'-11"	Min Uplitt Poeting Type (in) (in	Conting "d"	ad 16 d trib d trib 12' 4.5' 15'-1 27 9'-6' 29 14'-2 27 12'-7 28 11'-5' 31 16'-8 31 16'-8 31 16'-2 31 16'-3 35 29'-3 38 40'-0 21 8'-0' 24 16'-0 31 21	Min V Fost	Constitution of the control of the c	rd Speed of the strength of th	trib Min Post 5° Type 3'-7" 5° Type 3'-7" 5° Type 5'-10" 5'-10" 5'-10" 5'-10" 5'-10" 5'-10" 5'-10" 5'-10" 6'-1	PH EXPC cubic Footing Ma (fin) 8* 20 23 23 26 22 24 24 27 24 25 22 21 60 24 27 24 25 26 28 29 31 31 32 33 34 21 19 19 24 21 19 19 24 21 19 19 24 21 27 28 28 31 Upliff Footing Ma (in) 8* 22 24 24 24 28 24	DSURE C Ing "d"	trib Min Post 12'-4" C2 R-6'-5" C2 R-6'- C2 R-6'- C2 R-6'-5" C2 R-	Cubic foo Uplife Footing M (in) 8' 21 22 24 25 23 23 25 25 25 25 26 26 26 28 27 28 28 25	ting "d" Constrained Footing (in) as Post tength 3 24 25 5 27 28 3 25 26 4 25 27 7 28 29 6 26 28 2 24 25 0 60	trib M 11'-4" C 8'-0" B 12'-2" C 10'-10" B 14'-5" C 16'-4" C 16'-4" C 16'-4" C 16'-4" C 16'-4" C 16'-4" C 16'-5" C	Seism cubic tuplift to Footing to Grant 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25' 27 22' 23 25 26 27 29' 30' 32' 31' 33' 34' 36' 33' 30' 32' 33' 30' 32' 33' 30' 32' 33' 30' 32' 33' 31' 33' 33' 31' 33' 33' 34' 36' 33' 30' 32' 33' 30' 32' 33' 31' 33' 33' 34' 36' 33' 30' 32' 33' 31' 33' 33' 34' 36' 33' 30' 32' 33' 31' 33' 33' 34' 36' 33' 30' 32' 33' 31' 33' 33' 34' 36' 33' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 34' 36' 33' 33' 33' 34' 36' 33' 33' 33' 33' 33' 33' 33' 33' 33	trib 1	Min Pest (in Pest) Food (in Pest) Fo	cubic footing Compositing Footing Foot	g "d" g "d" g "d" 24	trib M PC	cubic Alin Uplift Cost Footing Wps (in) Cost Footing (in) Cos	Tooting "d"	trib the trib the trib the trib the trib the trib the trib trib trib trib trib trib trib trib	Min U Post Fo C1 B C2 C2 C2 D Min U Post Fo C1 B C2	Polifit Feb Polifit	ining "d" constrained conting (in) as Fost tength 10" 12" 23 24 26 27 24 25 27 28 25 26 22 24 60 60 26 27 28 29 31 32 31 33 32 34 35 36 22 23 26 27 28 29 30 32 34 cooting (in) 10" 12" 28 29	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 17-6 18-1 18-1 18-1 18-1 18-1 18-1 18-1 18	cubic t n Uplift Footing (in) 21 25 24 23 26 26 26 27 31 32 27 31 32 26 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 26 26 27 30 31	Construction of the constr
s" 8" 8" 8" 10" x2" x6.5" 8" 18" x3" x8" 7 Insert socia #1 5 Steel C 5 Steel C 5 Steel C 6 Steel C 6 Steel C 7 " x2" x6.5" 8" 8" x3" x8" 7" 8" x3" x8" 7" 8" x3" x8" 7" 8" x3" x8" 7" 8" x5 x5 x6 x8" 8" x5 x5 x6 x8 x8" 8" x5 x5 x6 x8 x8" 8" x5 x5 x6 x8 x8" 8" x5 x5 x7 x8" 8" x5 x5 x8 x	V Load: Table S.2b Detail On Slab L M K L M V N N N S S S J AU P Q R T Detail On Slab L M K L M V N N N S S S S J AU P Q R T T Detail On Slab L M M K L M S S S S S S S S S S S S S S S S S S	trib M PFC 33 T TV 22'-8" C 12'-1" / 12'-1" / 12'-1" / 12'-1" / 12'-1" / 12'-1" / 12'-1" / 12'-1" / 12'-1" / 12'-1" / 13'-10" / 12'-15" / 13'-10"	Cubin Uplifit Footing (in) 19 21 21 20 23 22 21 20 23 24 27 27 28 20 22 21 27 27 28 20 22 21 27 27 28 20 22 21 27 27 28 20 22 27 27 21 23 24 24 24 25 27 26 27 28 20 22 27 21 23 24 24 24 24 24 24 24 24 24 24 24 24 24	Cooting "d" Cooting (in) Max Post Length Res 10" 12" Cooting (in) Max Post Length Res 10" 12" Cooting (in) Max Post Length Res 10" Cooting (in) Cooting	trib 3.5' 19'-5" 11'-1" 16'-4" 14'-5" 13'-2" 19'-1" 18'-10" 14'-4" 12'-10" 19'-3" 33'-6" 33'-6" 33'-6" 33'-6" 33'-6" 33'-6" 33'-6" 35'-6" 12'-4" 17'-2" 10'-10" 10'-4" 8'-9" 10'-4" 8'-9" 10'-10" 10'-4" 8'-9" 11'-4" 17'-10"	Ad: 10 cubic Cubic Min Uplift Footing Type (in) C1 A 19 B 22 B 21 A 20 C1 23 C2 25 C2 28 C2 28 C2 28 C2 29 D 30 A 20 A 20 B 23 A 18 B 23 A 18 B 22 C2 25 C2 28 C2 29 C3 28 C4 29 C5 25 C6 25 C7 26 C7 26 C8 27 C9 27 C9 25 C9 28 C9 27 C9 27 C9 25 C9 28 C9 27 C9 27 C9 25 C9 28 C9 29 C9 26 C9 27 C9 27 C9 27 C9 25 C9 28 C9 28 C9 29 C9 27 C9 27 C9 27 C9 27 C9 27 C9 28 C9 28 C9 28 C9 28 C9 29 C9 27 C9 28 C9 29 C9 30 C9 3	cooting "d" Constrained Footing (in) Max Post Length 8" 10" 12" 25	trib 4' 17'-0" 10'-2" 15'-2" 12'-2" 17'-9" 17'-5" 13'-3" 12'-0" 17'-7" 21'-3" 31'-5" 31'-5" 31'-1" 40'-0" 11'-4" 17'-0" 8'-4" 16'-8" 17'-0" 8'-6" 17'-0" 8'-6" 17'-0" 11'-10"	Min Uplit	Sign Loc ic footing "d" Constraine Footing (In Max Post Leng 8" 10" 24	ad 16 d trib drib 15'-1 27 9'-6'-6 29 14'-2 27 12'-7 28 11'-5'-6 31 16'-8 31 16'-8 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-2 31 16'-0 31 16'-0 31 16'-0 31 16'-0 35 23'-7 35 23'-7 36 16'-0 37 34'-9 38 40'-0 21 10'-0 21 10'-0 21 10'-0 21 20'-0 22 10'-0 35 23'-7 36 5'-0' 26 8'-0' 26 8'-0' 26 8'-0' 26 7'-4' 26 6'-4' 27 9'-5' 26 7'-4' 27 9'-5' 26 7'-4' 27 9'-11' 30 15'-10' 30 15'	Min U Pest Fo Type " C1 " A " B " B " C2 " C2 " C2 " C2 " C2 " C2 C2	Constitution of the consti	rd Spee "d" "d" "d" "d" "d" "d" "d" "d" "d"	trib Min Post 5° Type 3'-7" C1 43'-4" B 5'-10" B 5'-5" C2 5'-4" C2 1'-9" B 5'-9" C2 5'-4" D 10'-9" B 5'-9" C2 5'-4" D 10'-9" B 10'-9" C2 10'-9" D 10'-	PH EXPC cubic Footing Market (In) 8 2 2 2 2 4 2 2 2 2 1 60 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DSURE C ing "d" ing "d	trib Min Post 12'-4" C2 R-6'-5" C2 R-6'- C2 R-6'- C2 R-6'-5" C2 R-	Cubic foo Cubic	ting "d" Constrained Footing (in) as Post tength 3 24 25 5 27 28 3 25 26 4 25 27 7 28 29 6 26 28 2 24 25 6 60 60 6 28 29 3 29 31 1 32 34 1 3	trib M Poi 111-47 C 8-107-101 B 121-27 C 101-107 B 141-57 C 141-67	Seism cubic tubic tub	footing "d" Constrained Footing (in) Max Post Lengtl 8' 10' 12' 25 27 21 25	trib 1 6.5' 10'-5' 10'-5' 3 11'-7' 3 11'-7' 3 11'-7' 4 13'-5' 10'-8' 10	Min Upp Pest Food Type B 2 C2 2 C3 2 C4 2 C5 2 C6 2 C6 2 C7 2 C6 2 C7 2 C7 2 C8 2 C9	cubic footing Con olift Foo olift Fo	g "d" g "d" g "d" 24	trib M PC 7	Cubic Alin Uplift out Footing (m) C1 Section C2 24 C3 23 C4 24 C5 24 C6 23 C7 25 C7 27 C8 28 C9 26 C9 27 C9 28 C9 28 C9 34 C	Footing "d" Constrained Footing (in) Max Post Lengt Register Footing (in) Max Post Lengt Register Registe	thib thib thib thib thib thib thib thib	Min U Post Fo C1 B C2	Company Comp	ting "d"	trib M por 8 T 10 8-6-7 E 10-3-8 12-3-8 12-3-8 11-3-8 13-3-1 17-6-8 13-3-1 17-6-8 13-1 17-6-8 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 13-1 17-6 17-6 18-1 18-1 18-1 18-1 18-1 18-1 18-1 18	cubic t n Uplift Footing (in) 21 25 24 23 26 26 26 27 31 32 27 31 32 26 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 32 26 26 27 30 31	Construction of the constr





CONFORMANCE TO THE APPLICABLE ELECTRICAL CODE IS OUTSIDE THE SCOPE OF THIS DETAIL AND MUST BE APPROVED SEPERATELY.



Weight of	
fan/lights	2"x3" Fan Beam
30 lbs	20'



7.0 POST AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO STRUCTURES

Trib	for Attac	le Width hed Two ures on Slab
Width (ft)	Live or Gro	und Snow Load 20 psf
3	45'-5"	23'-9"
3.5	38'-11"	20'-4"
4	34'-1"	17'-10"
4.5	30'-3"	15'-10"
5	27'-3"	14'-3"
5.5	24'-9"	12'-11"
6	22'-8"	11'-10"
6.5	20'-11"	10'-11"
7	19'-5"	10'-2"
7.5	18'-2"	n/a
8	17'-0"	n/a
8.5	16'-0"	n/a
9	15'-1"	n/a
		Table 7.1

				Table	7.3: Red	uired N	lumber	of Faste	ners for	Shearin	g Loads		Table 7.4	Required	d Number	of Faster	ers for	Tension	Loads
					Alumin	um Ma	terial Ga	age (in)			Steel G	age (in)		Alumir	num Gage	(in)			
			0.024	0.024	0.032	0.038	0.040	0.040	0.060	0.060	0.048	0.048	0.036	0.06	0.060	0.089	0.100		
_			Α	В	C	D	E	F	G	Н	11	J	K	L	М	N	0		
r	Footer	Design	#14	3/8" B	3/8" B	#14	#14	3/8" B	#14	3/8" B	#14	3/8" B	3/8" B	#14	3/8" B	3/8" B	#14	Design	Footer
	Size	Uplift	SMS	BOLT	BOLT	SMS	SMS	BOLT	SMS	BOLT	SMS	BOLT	BOLT	SMS	BOLT	BOLT	SMS	Uplift	Size
	d (in)	(lbs)	128	590	788	203	210	984	310	1476	594	2376	369	128	577	856	234	(lbs)	d (in)
	12	90	1.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	90	12
	13	114	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	114	13
	14	143	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	143	14
	15	176	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	176	15
	16	213	2	1	1	2	2	1	1	1	1	1	1	2	1	1	1	213	16
	17	256	2	1	1	2	2	1	1	1	1	1	1	2	1	1	2	256	17
	18	304	3	1	1	2	2	1	1	1	1	1	1	3	1	1	2	304	18
	19	357	3	1	1	2	2	1	2	1	1	1	1	3	1	1	2	357	19
	20	417	4	1	1	3	2	1	2	- 1	1	1	2	4	1	1	2	417	20
	21	482	4	1	1	3	3	1	2	1	1	1	2	4	1	1	3	482	21
	22	555	5	1.	1	3	3	1	2	1	1	1	2	5	1	1	3	555	22
Slab 20 psf 110 mph Exp C	23	634	5	2	1	4	4	1	3	1	2	1	2	5	2	1	3	634	23
Slab 10 psf 110 mph Exp B	24	720	6	2	1	4	4	1	3	1	2	1	2	6	2	1	4	720	24
Slab 10 psf 95 mph Exp C	25	814	7	2	2	5	4	1	3	1	2	1	3	7	2	1	4	814	25
Slab 10 psf 100 mph Exp C	26	915	8	2	2	5	5	1	3	1	2	1	3	8	2	2	4	915	26
Slab 10 psf 105 mph Exp C	27	1025	9	2	2	6	5	2	4	1	2	1	3	9	2	2	5	1025	27
Slab 10 psf 110 mph Exp C	28	1143	9	2	2	6	6	2	4	1	2	1	4	9	2	2	5	1143	28
Slab 10 psf 115 mph Exp C	29	1270	n/a	3	2	7	7	2	5	1	3	1	4	n/a	3	2	6	1270	29
	30	1406	n/a	3	2	7	7	2	5	1	3	1.	4	n/a	3	2	7	1406	30
MAX	31	1552	n/a	3	2	8	8	2	6	2	3	1	5	n/a	3	2	7	1552	31

n/a

n/a

n/a

n/a

n/a

n/a

60 140

n/a

n/a

n/a

POST TYPE	POST DESCRIPTIONS	DETAIL	MAX POST HGHT
Α	Twin 0.032"x1.5"x1.5" Alum	AL AO	8'
В	Twin 0.024"x2"x2" Scrol	AL AO	9'
C1	0.032"Post w/ 0.024" Sideplates	AH 21	12'
C2	0.032"Post w/ 0.032" Sideplates	AH 21	12'
D	Clover 0.040"x3"x3" Alum	AK 24	10'
E	Magnum 0.075"x3"x3" Post	AJ 23	12'
F1	Steel 0.048"x3"x3" Lockseam	AK 24	11'
F2	Steel 0.048"x3"x3" Lockseam	AK 24	10'
F3	Steel 0.048"x3"x3" Lockseam	AK 24	9'
F4	Steel 0.048"x3"x3" Lockseam	AK 24	8'
G1	13Ga x3"x3" Steel Square	AF19	12'
G2	13Ga x3"x3" Steel Square	AF19	9'
H1	10Ga x3"x3" Steel Square	AF 19	11'
H2	10Ga x3"x3" Steel Square	AF 19	10'
11	3/16"x3"x3" Steel Square	AF 19	11'
12	3/16"x3"x3" Steel Square	AF 19	9'
J1	3/16"x4"x4" Steel Square	AF 19	15'
J2	3/16"x4"x4" Steel Square	AF 19	12'

Table 7.2

- #14 SMS = #14 sheet metal or SDS screw, 1/2" minimum length
- 3/8" B = 3/8" Diameter Bolt

1707

1872

2047

2233

2430

2638

2858

3090

3333

3590

3859

4141

4437

4746

5070

5407

5760

6128

n/a

n/a

n/a

n/a

33

36

37

38

39

40

42

43

44

45

46

See General Notes for specifics on fasteners	LIVE/			ALLOWABLE PANE	L SPAN FOR GIVE	N FASTE	VER AND	NUMBE	ER
	SNOW	WIND	SPEED	CONCRETE (#2) OF	MASONRY (#3)	#14 SCF	REW (#4)	PER 16	
Clearspan on this chart is the distance from the wall to the first row of columns.	LOAD	(MPH	AND	ANCHOR O/C	SPACING	1/4" LAG	SCREW	(#5) PER	16"
2 Simpson Titen HD 3/8" diameter and 2" embed and 1" dia steel washer: ICC ESR 2713 or other	(PSF)	EXPC	SURE	16"	8"	1	2	3	4
anchor w/ 320# allowable shear and 173# allowable tensile vs live, snow, wind and seismic loads.	10	120	В	20.5'	n/a	18'	20.5'	n/a	n/a
3 Masonry anchors must have an allowable shear value of 320# and 173# tensile for live, snow, wind	10	105	С	20.5'	n/a	18'	20.5'	n/a	n/a
or seismic loads or be specified by a design professional.	10	110	С	20.5'	n/a	16.5'	20.5	n/a	n/a
4 #14 screws must have 1.5" of penetration into solid wood.	10	115	С	20.5'	n/a	15'	20.5'	n/a	n/a
5 1/4" Lag screws must have 2 1/4" of penetration into studs and 0.5" washers	10	120	С	20.5'	n/a	13.5'	20.5'	n/a	n/a
These lag screws must be installed as per AWC 2018 NDS Section 12.1.4. See General Note #11 for	10	130	С	17.5'	n/a	11.5'	20.5'	n/a	n/a
washer specifications.	10	140	С	15'	n/a	10'	20'	n/a	n/a
6 10 and 20 psf are live or snow loads, 25- 60 psf are snow loads.	20	140	С	15'	18'	9.5'	18'	n/a	n/a
7 For ANC3 and ANC4 wood framing imust be SG=0.5 or denser (Douglas Fir- Larch)	25	140	С	15'	18'	9.5'	18'	n/a	n/a
8 "n/a" indicates maximum panel span in this report was reached by a lesser amount of fasteners.	30	140	С	13.5'	17'	8.5'	17'	n/a	n/a
	35.7	140	С	12.5'	16.5'	7'	14'	16.5'	n/a
	42	140	С	11'	15.5'	6'	12.5'	15.5'	n/a
Duralume Carl Putnam, P. E.	50	140	С	10'	14'	5'	10.5'	14'	n/a

n/a

United Duralume 350 S Raymond Ave Fullerton, CA

3441 lvylink Place Lynchburg, VA 24503 (434) 384-2514 carlputnam@comcast.net 1707

1872

2047

2233

2430

2638

2858

3090

3333

3590

3859

4141

4437

4746

5070

5407

5760

6128 6510

n/a

4'

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

TABLE 7.5: WALL ATTACHMENTS FOR SOLID COVER STRUCTURES

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num Gage (in)	1 Spacing between bolts and screws shall be 2.5 times the shank diamter.
The state of the s	

- 2 The edge distance of bolts and screws shall be 3 times the shank diameter
- 3 Connections shall be arranged so that the center of resistance of the connection shall coincide with the resultant line of action of the load.

GRND SNOW	Wind Speed	# of Screws*	ALUMINUM RAFTER SPACING							
LOAD and (PSF) Exposure		per Rafter	12"	16" MAXIMUM	20" ALUMINUN	24" I RAFTER S	32" PAN	36"		
10	140 mph Exp C	2	26'	22'	20'	19'	17'	15'		
LIVE	140 mph Exp C	3	26'	22'	20'	19'	18'	17'		
20	150 mph Exp C	2	19'	18'	14'	12'	9'	8'		
LIVE	150 mph Exp C	3	19'	19'	14'	13'	10'	9'		
25	150 mph Exp C	2	18'	18'	13'	12'	9'	8'		
30	150 mph Exp C	2	17'	15'	11'	10'	8'	7'		
35.7	150 mph Exp C	2	15'	13'	10'	9'	7'	6'		
42	150 mph Exp C	2	13'	11'	8'	8'	6'	5'		
50	150 mph Exp C	2	11'	9'	7'	6'	5'	4'		
60	150 mph Exp C	2	10'	8'	6'	5'	4'	3'		
		3	10'	8'	6'	5'	4'	4'		

*Screws are #14 screws w/ 1.5" embedment into G=0.5 solid wood (Douglas Fir)

Ground Snow	Ground Snow 1/4" Lag Screws 16" o/c*						
Load (psf)	1	2	3	4	Speed (mph)	Exp	
10	6'-6"	13'-0"	19'-7"	26'-1"	115	В	
10	4'-8"	9'-4"	14'-0"	18'-8"	140	В	
10	6'-5"	12'-10"	19'-3"	25'-8"	100	С	
10	5'-11"	11'-10"	17'-9"	23'-8"	105	С	
10	5'-4"	10'-9"	16'-2"	21'-7"	110	C	
10	4'-11"	9'-10"	14'-10"	19'-9"	115	C	
10	4'-6"	9'-1"	13'-7"	18'-2"	120	С	
10	3'-10"	7'-9"	11'-8"	15'-6"	130	C	
10	3'-4"	6'-8"	10'-0"	13'-5"	140	C	
20	4'-6"	9'-0"	13'-6"	18'-0"	110	В	
20	4'-6"	9'-0"	13'-6"	18'-0"	95	C	
20	4'-2"	8'-4"	12'-6"	16'-9"	110	C	
20	4'-0"	8'-1"	12'-2"	16'-2"	115	С	
20	3'-8"	7'-4"	11'-0"	14'-8"	130	C	
25	4'-4"	8'-9"	13'-1"	17'-6"	95	С	
25	4'-0"	8'-1"	12'-2"	16'-3"	110	C	
25	3'-9"	7'-7"	11'-5"	15'-3"	120	C	
30	3'-10"	7'-8"	11'-6"	15'-4"	100	С	
30	3'-7"	7'-3"	10'-11"	14'-7"	110	С	
30	3'-5"	6'-10"	10'-4"	13'-9"	120	С	
35.7	3'-4"	6'-8"	10'-0"	13'-4"	105	C	
35.7	3'-1"	6'-2"	9'-3"	12'-4"	120	С	
42	2'-11"	5'-10"	8'-9"	11'-8"	105	С	
42	2'-9"	5'-6"	8'-4"	11'-1"	120	С	
50	2'-5"	4'-11"	7'-4"	9'-10"	120	С	
60	2'-1"	4'-2"	6'-3"	8'-4"	120	С	

*Lag Screw = 1/4" Lag Screw with 2.5" penetration into G=0.5 wood (Douglas Fir) **Lattice Structures use

115 mph Exp B for wind conditions up to 130 mph Exp C

110 mph Exp C for wind conditions up to 140 mph Exp C

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United Duralume Structural Properties of Beams, F	ascia, Panels and Rafters for Use by Design Professionals
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	, , , , , , , , ,	l (in^4) bottom in compression	ASSUMES FULL LATERAL BRACING							
Structural Element	I (in^4) top in compression		Max Allowable Moment (top in compression (lbf*ft)	Max Allowable Moment (bottom in compression (lbf*ft)	Max Allowable Shear (lbf)	Material	E (ksi)	Ftu or Fu (ksi)	Fty or Fy (ksi)	Fcy (ksi)
Rafters										
0.024"x2"x6.5" Aluminum Rafter Detail 6	2.176	same	295	276	169	3004H34	10100	32	25	22
0.032"x2"x6.5" Aluminum Rafter Detail 6	2.929	same	560	500	406	3004H34	10100	32	25	22
0.040"x2"x6.5" Aluminum Rafter Detail 6	3.693	same	863	796	800	3004H34	10100	32	25	22
0.042"x3"x8" Aluminum Rafter Detail 7	7.907	same	1177	1051	747	3004H34	10100	32	25	22
0.018"x1.5"x1.5" Aluminum Tube Detail 8	0.042	same	32	28	248	3003H14	10100	20	17	15
0.024"x2"x2" Aluminum Tube Detail 8	0.134	same	75	66	442	3003H14	10100	20	17	15
0.024"x2"x3" Aluminum Tube Detail 5	0.182	same	68	65	442	3003H14	10100	20	17	15
0.024"x3"x3" Aluminum Tube Detail 8	0.445	same	107	102	380	3003H14	10100	20	17	15
0.032"x3"x3" Aluminum Tube Detail 8	0.599	same	240	226	912	3004H34	10100	32	25	22
Aluminum Panels										
0.021"x3"x12" W Panel Detail E	0.445	same	231	494	177	3004H34	10100	32	25	22
0.024"x3"x12" W Panel Detail E	0.509	same	269	564	265	3004H34	10100	32	25	22
0.032"x3"x12" W Panel Detail E	0.679	same	393	752	627	3004H34	10100	32	25	22
0.044"x3"x12" W Panel Detail E	0.933	same	642	1034	1624	3004H34	10100	32	25	22
							307.00		7.7	
0.018"x2.25"x6" Flat Panel Detail G	0.192	same	129	112	209	3004H34	10100	32	25	22
0.024"x2.25"x6" Flat Panel Detail G	0.256	same	203	184	490	3004H34	10100	32	25	22
0.032"x2.25"x6" Flat Panel Detail G	0.342	same	286	294	929	3004H34	10100	32	25	22
0.038"x2.25"x6" Flat Panel Detail G	0.406	same	348	386	1258	3004H34	10100	32	25	22
0.018"x2.5"x24" Panel Detail F	0.463	same	252	259	357	3004H34	10100	32	25	22
0.024"x2.5"x24" Panel Detail F	0.618	same	470	385	847	3004H34	10100	32	25	22
0.032"x2.5"x24" Panel Detail F	0.824	same	726	580	2008	3004H34	10100	32	25	22
0.038"x2.5"x24" Panel Detail F	0.978	same	936	771	3362	3004H34	10100	32	25	22
0.018"x3"x6" Flat Panel Detail H1	0.373	same	178	136	155	3004H34	10100	32	25	22
0.024"x3"x6" Flat Panel Detail H1	0.497	same	280	241	367	3004H34	10100	32	25	22
0.032"x3"x6" Flat Panel Detail H1	0.663	same	394	401	865	3004H34	10100	32	25	22
0.038"x3"x6" Flat Panel Detail H1	0.787	same	488	538	1309	3004H34	10100	32	25	22
0.018"x3"x12" Flat Panel Detail H2	0.461	same	183	410	172	3004H34	10100	32	25	22
0.024"x3"x12" Flat Panel Detail H2	0.614	same	287	547	407	3004H34	10100	32	25	22
0.032"x3"x12" Flat Panel Detail H2	0.819	same	406	729	913	3004H34	10100	32	25	22
0.038"x3"x12" Flat Panel Detail H2	0.972	same	505	866	1313	3004H34	10100	32	25	22
Aluminum Headers										
0.042"x3"x8" Aluminum Header Detail L/12	7.907	same	1177	1051	747	3004H34	10100	32	25	22
0.048"x3"x8" Aluminum Header Detail L/12	9.081	same	1560	1385	1122	3004H34	10100	32	25	22
Double 0.042"x3"x8" Aluminum Header Detail										
M/13 Double 0.048"x3"x8" Aluminum Header Detail	15.814	same	2354	2102	1494	3004H34	10100	32	25	22
M/13	18.162	same	3120	2770	2244	3004H34	10100	32	25	22
Double 0.040"x2"x6.5" Aluminum Header	4.000		12000	Value .	No. or a	anni Alan				
Detail K/11	7.386	same	1726	1592	1600	3004H34	10100	32	25	22
4"x2.375" I beam Detail P	1.712	same	1479	1479	2152	6061T6	10100	38	35	35
6"x4.5" I beam Detail Q	11.45	same	6046	6046	6928	6061T6	10100	38	35	35
7"x5.5" I beam Detail R	26.15	same	12518	12518	6016	6061T6	10100	38	35	35
10"x5.5" I beam Detail T	64.78	same	21873	21873	10983	6061T6	10100	38	35	35
Steel Headers										
	0.04	0.04	4400	44.00	00-0	ADTH ARE DOLLAR		-	224	
16 Gauge Steel C Beam Detail N/14	8.64	8.64	4187	4187	2370	ASTM A653 Grade 50	29000	65	50	
14 Gauge Steel C Beam Detail N/14 12 Gauge Steel C Beam Detail N/14	10.19	10.19	5437	5437	3990	ASTM A653 Grade 50	29000	65	50	
Double 16 Gauge Steel C Beam Detail N/14	14.98	14.98	9491	9491	13780	ASTM A653 Grade 50	29000	65	50	
Double 14 Gauge Steel C Beam Detail S/16	17.28	17.28	8374	8374	4740	ASTM A653 Grade 50	29000	65	50	
Double 12 Gauge Steel C Beam Detail S/16	20.38 29.96	20.38 29.96	10874 18982	10874 18982	7980 27560	ASTM A653 Grade 50 ASTM A653 Grade 50	29000	65 65	50 50	
0.048"x3" x3" Lockseam Header Detail J/10	0.90	0.90	1203	1203	4.3	ASTM A653 Grade 50 ASTM A653 Grade 40	29000 29000	65 55	50 40	
Double 0.048"y3"y3" Looksoam Dotail 1/10	1.91	1.90	0406	0406	9.0	ACTM ACCO Condo 40	23000	55	40	

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Double 0.048"x3"x3" Lockseam Detail J/10

ASTM A653 Grade 40 29000 55