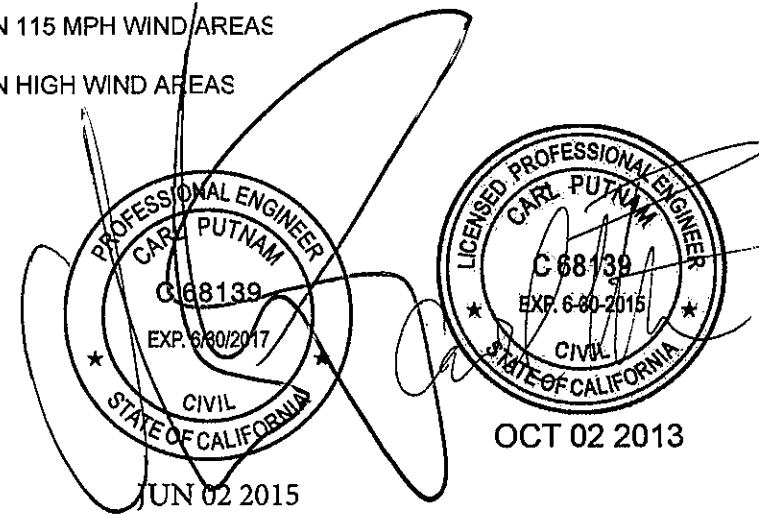
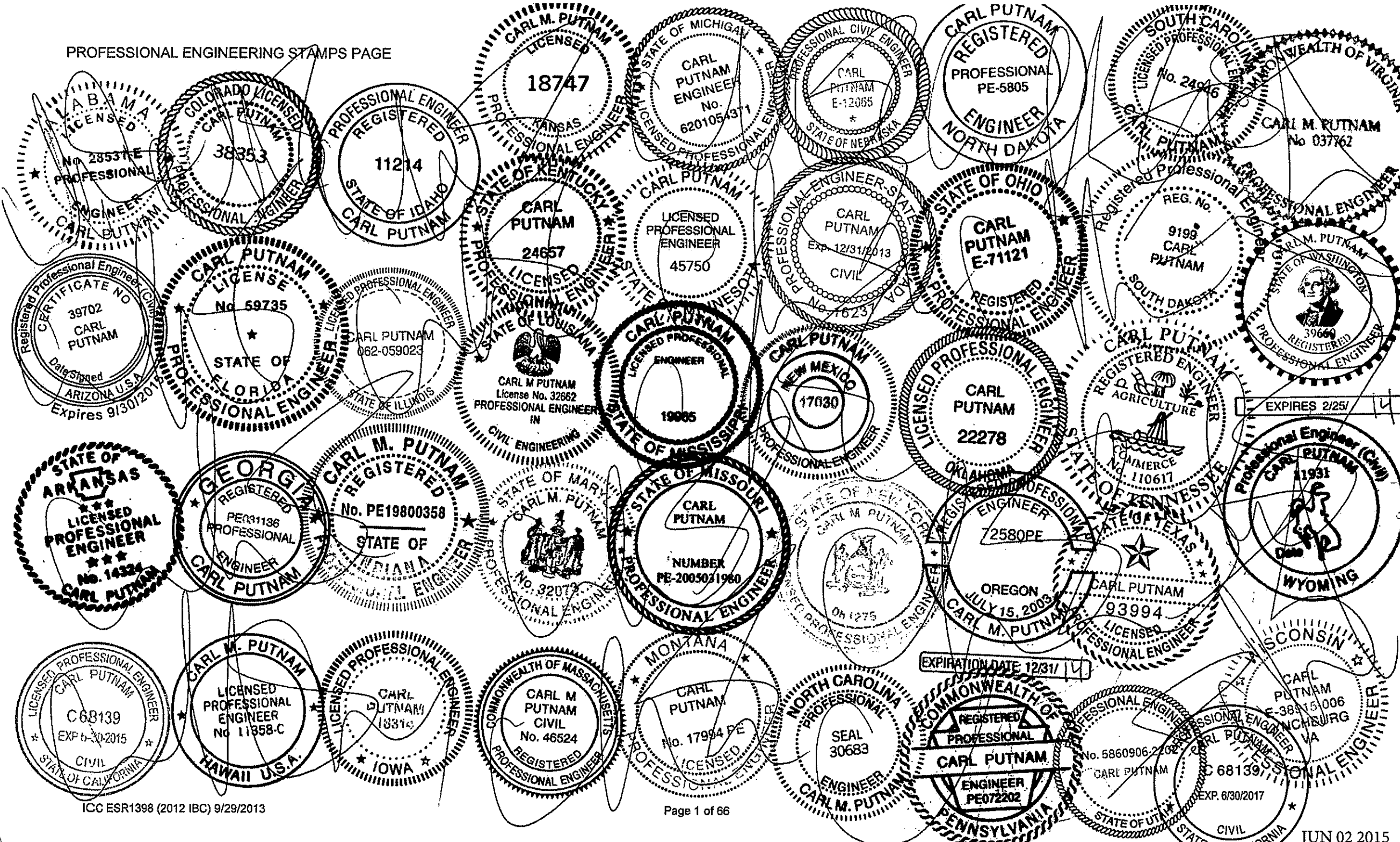


Amerimax Exterior Home Products Alumawood™ Patio Cover, Carport and Commercial Structure Engineering 2012 IBC

PAGES	DRAWING	SECTION DESCRIPTION
2 PAGES	GN01-2012 GN02-2012	GENERAL NOTES
2 PAGES	SC01-2012 SC02-2012	SOLID PANEL STRUCTURAL CONFIGURATIONS ALUMAWOOD STRUCTURAL CONFIGURATIONS
4 PAGES		LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
4 PAGES		LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 115 MPH WIND AREAS
4 PAGES		LATTICE 3.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
4 PAGES	LT01-2012 LT02-2012 LT03-2012 LT04-2012	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
2 PAGES		SOLID COVER 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
10 PAGES		SOLID COVER 5.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 115 MPH WIND AREAS
10 PAGES		SOLID COVER 6.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
4 PAGES	NP01-2012 NP02-2012 NP03-2012 NP04-2012	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORTS
9 PAGES	CD01-2012 CD02-2012 CD03-2012 CD04-2012 CD05-2012 CD06-2012 CD07-2012 CD08-2012 CD09-2012	COMPONENT PARTS AND CONNECTION DETAILS
10 PAGES	Misc1a-2012 Misc1b-2012 Misc2-2012 Misc3-2012 Misc4-2012 Misc5a-2012 Misc5b-2012 Misc6-2012 Misc7-2012 Misc8-2012	MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS FAN BEAM DETAILS 7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES 7.0 FOOTING AND SLAB ATTACHMENT TABLES 7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS 7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS 7.0 FORCES ON EXISTING STRUCTURES STRUCTURAL PROPERTIES OF BEAMS, FASCIA, PANELS AND RAFTERS FOR USE BY DESIGN PROFESSIONALS CONCRETE SLAB REQUIREMENTS FOR CONSTRAINED FOOTINGS



September 29, 2013



GENERAL NOTES:

- DESIGNED IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.
- ALUMINUM DESIGN IN ACCORDANCE WITH THE 2010 EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE INTERNATIONAL BUILDING CODE.
- DESIGN LOADINGS: $C_t = 1.2$, $I = 1.0$, $C_e = 1.0$ (ALL EXPOSURES EXCEPT B AND C WHEN LOCATED TIGHT AMONG CONIFERS)

GROUND SNOW LOAD	DESIGN LOAD
10 PSF	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
40 PSF	33.6 PSF DESIGN ROOF SNOW LOAD
60 PSF	50.4 PSF DESIGN ROOF SNOW LOAD

FOR $0.25/12 < \text{SLOPE} < 1/12$

WIND SPEEDS IN THE 2012 IBC ARE "ULTIMATE DESIGN WIND SPEED". ALL STRUCTURES DESCRIBED IN THIS REPORT ARE DESIGNED USING PRESSURES CALCULATED FROM "ULTIMATE DESIGN WIND SPEEDS" FOR RISK CATEGORY II. FOR ATTACHED STRUCTURES THE MAXIMUM MEAN ROOF HEIGHT OF THE EXISTING STRUCTURE IS 30'. K_{zt} WAS ASSUMED AS 1.0 FOR ALL WIND LOADS. SITE LOCATIONS REQUIRING HIGHER A HIGHER K_{zt} VALUE (ISOLATED HILLS, RIDGES, ESCARPMENTS) WILL REQUIRE HIGHER WIND LOADS AS PER ASCE7-10 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 $S_s = 150\%$ SHOWN IN 2012 IBC FIGURE 1613.3.1(1)

$S_s > 150\%$ ARE NOT REQUIRED AS PER ASCE7-10 12.8.1.3

S1 NOT APPLICABLE TO THESE STRUCTURES

SITE CLASS = D

BASIC SEISMIC FORCE RESISTING SYSTEM

POSTS EMBEDDED INTO FOOTINGS = ORDINARY STEEL MOMENT FRAME $\gg R = 1.25$

POSTS SURFACE MOUNTED = GENERIC SYSTEM $\gg R = 1.25$

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 1605.3.1.1 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:

- GENERAL NOTES (2 PAGES)
- STRUCTURAL CONFIGURATIONS (1 OR 2 PAGES)
- RAFTER SPAN TABLES (FOR LATTICE STRUCTURES), PANEL SPAN TABLES FOR SOLID COVER STRUCTURES) OR BOTH (FOR COMBINATION STRUCTURES)
- HEADER POST SPACING, FOOTING SIZE AND POST TABLE FOR LIVE/SNOW AND WIND LOAD
- ALL APPROPRIATE DETAILS
- OTHER DOCUMENTATION REQUIRED BY LOCAL BUILDING AUTHORITY.

5. CONCRETE MIX: $F_c = 2500, 3000$ OR 3500 PSI FOR 28 DAYS IN NEGLIGIBLE, MODERATE, AND SEVERE CONDITIONS AS SHOWN IN FIGURE 1904.2 OF THE 2012 IBC. PATIO STRUCTURES MAY BE ATTACHED TO CONCRETE SLAB WITHOUT FOOTINGS WHEN THE POST LOAD IS $750\#$ 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.

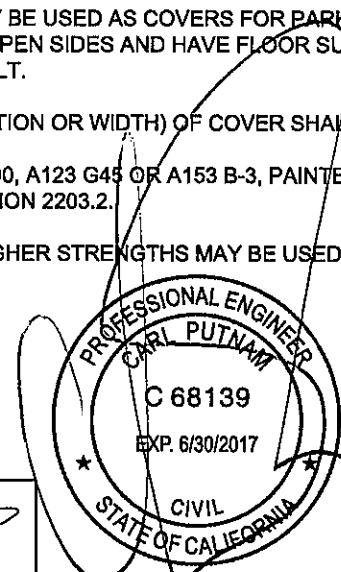
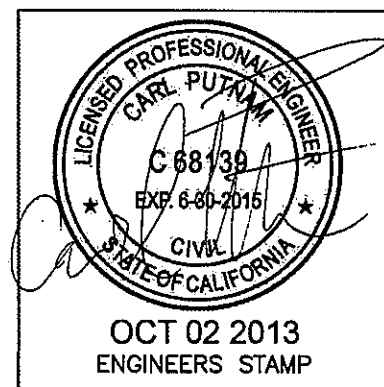
6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL AS PER TABLE 1806.2. ALLOWABLE FOUNDATION PRESSURE IS 1500 POUNDS PER SQUARE FOOT. LATERAL BEARING PRESSURE IS 100 PSF/FT AND IS DOUBLED PER IBC SECTION 1806.3.4. THESE DESIGN VALUES DO NOT APPLY TO MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT OR UNPREPARED FILLS AND MAY REQUIRE FURTHER SOIL INVESTIGATION. THE BUILDING OFFICIAL MAY ASSIGN A LOAD BEARING CAPACITY. UNITS IN 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. AT LEAST ONE HORIZONTAL DIMENSION (PROJECTION OR WIDTH) OF COVER SHALL BE LESS THAN 30'.

9. ALL STEEL SHALL BE GALVANIZED ASTM A-653 G90, A123 G45 OR A153 B-3, PAINTED ASTM A755 OR USE AN APPROVED COATING COMPLYING WITH IBC SECTION 2203.2.

10. ALTERNATE ALUMINUM ALLOYS OF EQUAL OR HIGHER STRENGTHS MAY BE USED. 3004H2x ALUMINUM MAY BE SUBSTITUTED FOR 3004H3x.



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DRAWN BY: CMP	DRAWING OR PART NAME: GENERAL NOTES
SCALE: NONE	DRAWING OR PART NUMBER: GN01-2012
DATE:	SHEET: 1 OF 2

GENERAL NOTES:

(CONTINUED FROM SHEET NO. 1)

11. STEEL FASTENERS SHALL BE EITHER STAINLESS (3000 SERIES), GALVANIZED OR DOUBLE CADMIUM PLATED. BOLTS SHALL BE ASTM A-307 HOT DIPPED GALVANIZED, MECHANICALLY GALVANIZED, ZINC ELECTROPLATED, ALUMINIZED OR 300 SERIES STAINLESS STEEL. CONCRETE ANCHOR BOLTS ARE SPECIFIED IN THE DETAILS. ALL WOOD SCREWS MUST COMPLY WITH ANSI/ASME STANDARD B18.6.1 AHD AND AF&PA NDS-05 11.1.4. ALL LAG SCREWS MUST COMPLY WITH ANSI/ASME B18.2.1 AND AF&PA NDS-05 11.1.3. ALL STEEL WASHERS TO BE ASTM F844 W/ DIMENSIONS IN ACCORDANCE WITH ASME B18.22.1, TYPE A. ALL STEEL NUTS TO BE ASTM A563. THE MINIMUM WASHER DIAMETER SHALL BE 1" FOR BOLTED CONNECTIONS. SCREWS AND BOLTS WILL 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 U, AND X) MAY BE LOCATED ANYWHERE.

14. ALL SELF DRILLING AND SELF TAPPING SCREWS MUST COMPLY TO ICC- ESR 1730, 2196 OR EQUIVALENT AND USE HEADS W/ DIAMETERS EQUAL TO #8 = $\frac{5}{16}$ " , #10 = $\frac{3}{8}$ " , #12 = $\frac{13}{32}$ " AND #14 = $\frac{1}{2}$ " OR STEEL WASHERS OF SIMILAR DIAMETER AND AS PER GENERAL NOTE #11

15. STRUCTURES MAY NOT BE ENCLOSED IN ANY MANNER WITHOUT ADDITIONAL ENGINEERING ANALYSIS OR APPROVAL OF THE LOCAL BUILDING AUTHORITY.

16. ALUMINUM SOLID ROOF PANELS ARE CLASS A FIRE RATED AS INDICATED BY THE EXCEPTION #2 IN IBC SECTION 1505.2.

17. STRUCTURES MAY BE ATTACHED TO EAVE OVERHANGS PER SCHEDULE.

18. WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH DISSIMILAR METALS (OTHER THAN STAINLESS, 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 PART I-A SECTION 6.7.

19. WHEN A SINGLE SPAN ATTACHED UNIT IS ATTACHED TO A WOODEN DECK, THE MAXIMUM DEAD LOAD + LIVE LOAD FROM THE PATIO COVER IS 750 LBS AND THE POST SPACING SHALL NOT EXCEED THAT SPECIFIED FOR ATTACHING TO A CONCRETE SLAB. THE MAXIMUM CONNECTION UPLIFT LOAD IS 1162 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 L13, N12 OR AL. CONSTRUCTION OUTSIDE OF THESE PARAMETERS MAY REQUIRE ADDITIONAL ENGINEERING.

20. All structures must comply with one of the following:

- a. 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) require additional engineering seismic analysis.

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 WITHIN 20%. ALL SPECIFICATIONS MUST BE BASED ON LONGEST ACTUAL SPAN.


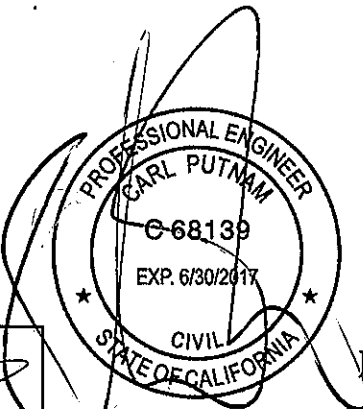
23. WOOD USED IN CONNECTIONS SHALL BE PROTECTED FROM WEATHER AS PER IBC SECTION 1403.2 (WALLS) AND/OR 1503 (ROOFS), WHICHEVER IS MORE APPROPRIATE.

24. AT LEAST ONE HORIZONTAL DIMENSION OF THE COVER (PROJECTION OR WIDTH) SHALL BE LESS THAN 30'

GENERAL NOTES FOR LATTICE STRUCTURES:

(PERTAINS TO LATTICE STRUCTURES ON DRAWINGS SC02-2012 AND LT01-2012 THRU LT03-2012.)

1. SEE GENERAL NOTE #3 FOR LIVE AND SNOW LOADS.
2. NOTE INTENTIONALLY LEFT BLANK.
3. SINGLE SPAN ATTACHED LATTICE STRUCTURES THAT DO NOT USE DETAIL L29 MUST COMPLY WITH TABLE L1 AND L2 ON SHEET M5.



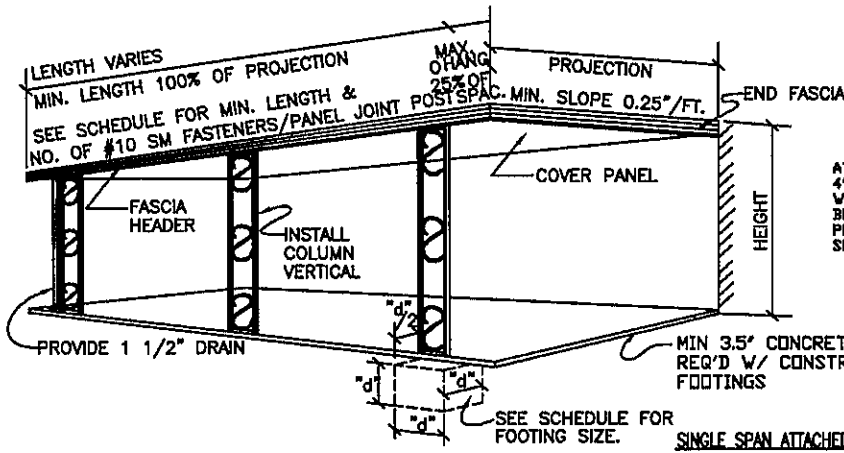
OCT 02 2013
ENGINEERS STAMP

PROFESSIONAL ENGINEER
CARL PUTNAM
C-68139
EXP. 6/30/2017
CIVIL
STATE OF CALIFORNIA

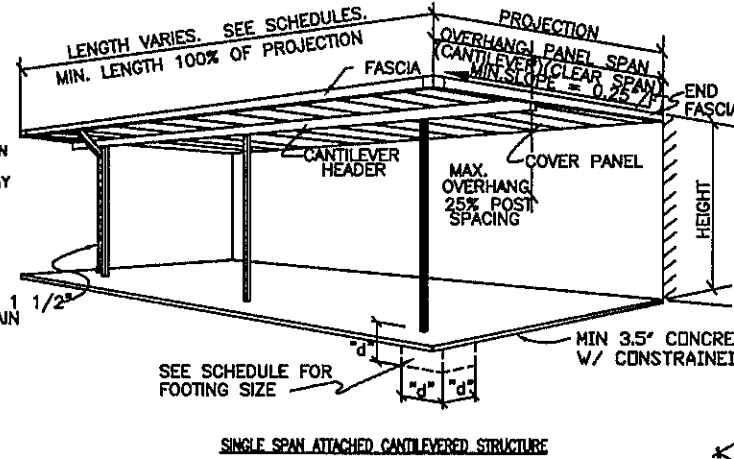
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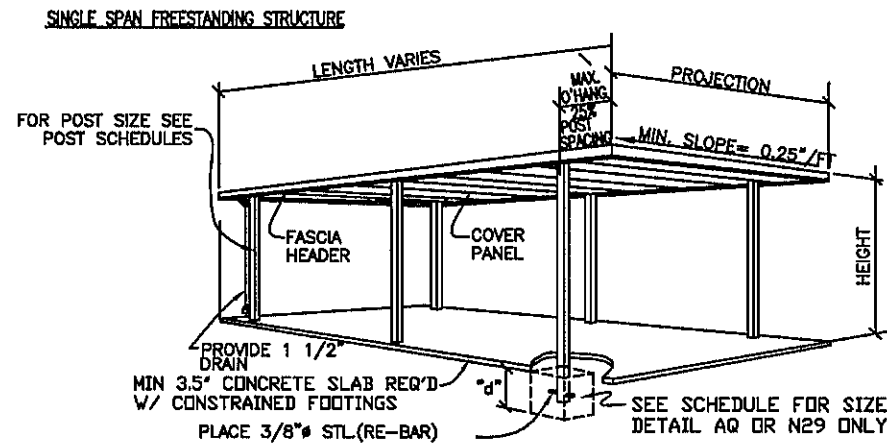
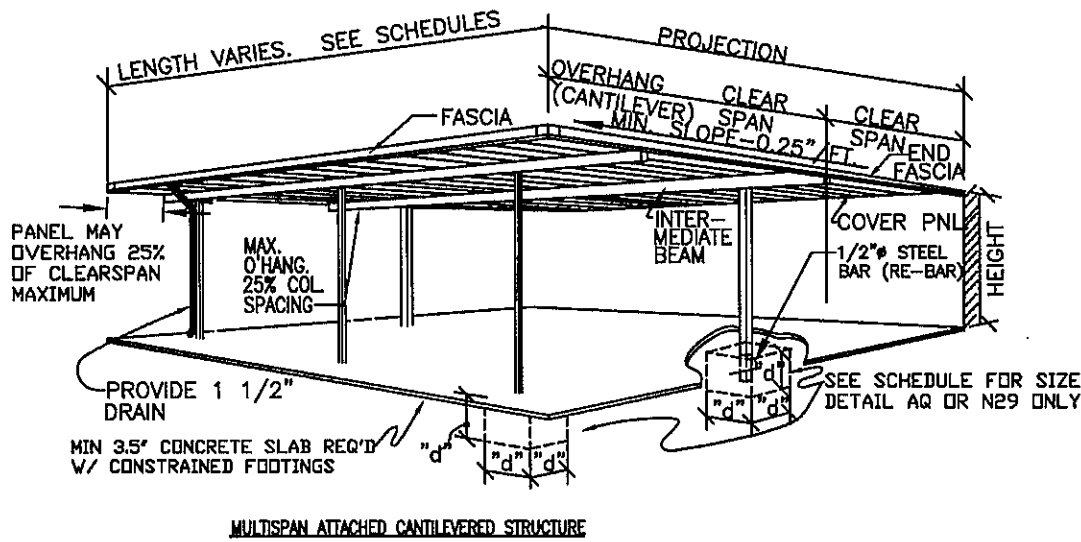
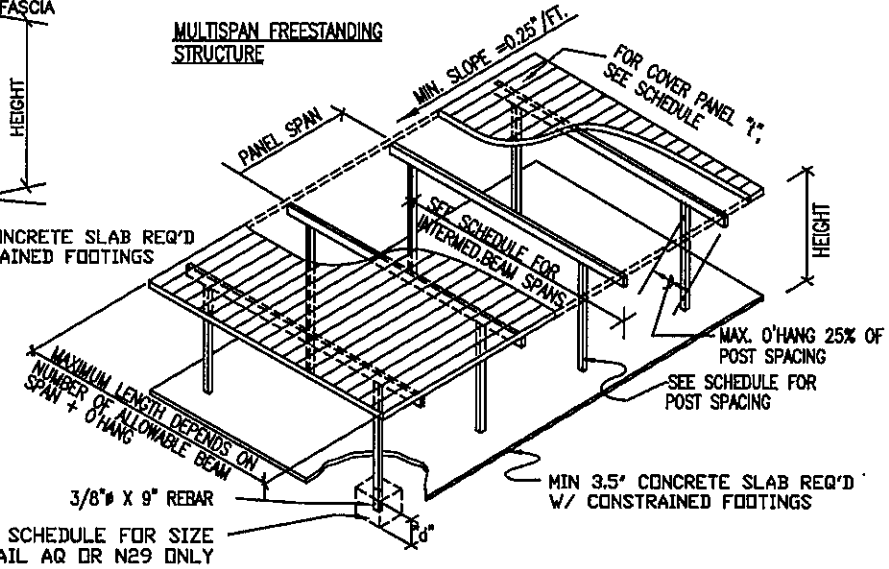
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SCALE:	NONE	DRAWING OR PART	
DATE:		DRAWING OR PART	GN02-2012
			SHEET 2 OF 2



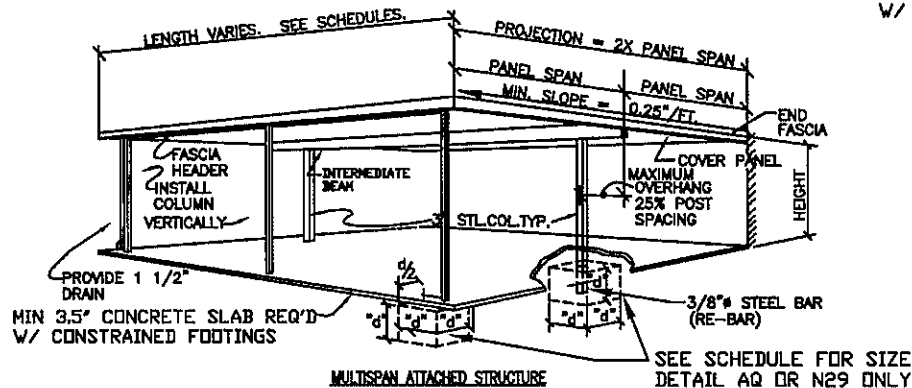
ATTACHMENT TO MIN 4" CONCRETE SLAB W/O A FOOTING MAY BE USED WHERE PERMITTED SEE SCHEDULE



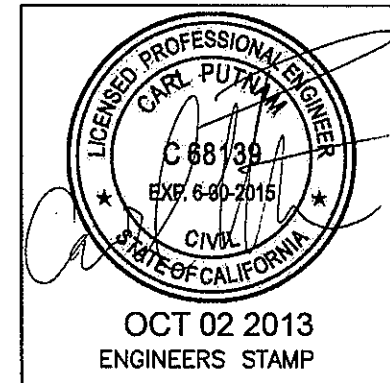
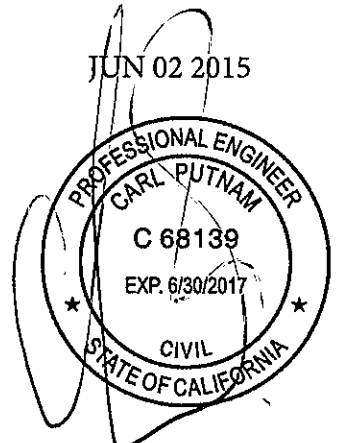
NOTE: SEE SCHEDULE FOR POSTS. ALL POSTS TO BE INSTALLED VERTICALLY. MAY HAVE MORE THAN 2 POSTS (PER INTERMEDIATE BEAM).



PATIO COVERS ARE LIMITED TO 12' HEIGHT. CARPORTS AND COMMERCIAL STRUCTURES ARE LIMITED TO 15' HEIGHT.

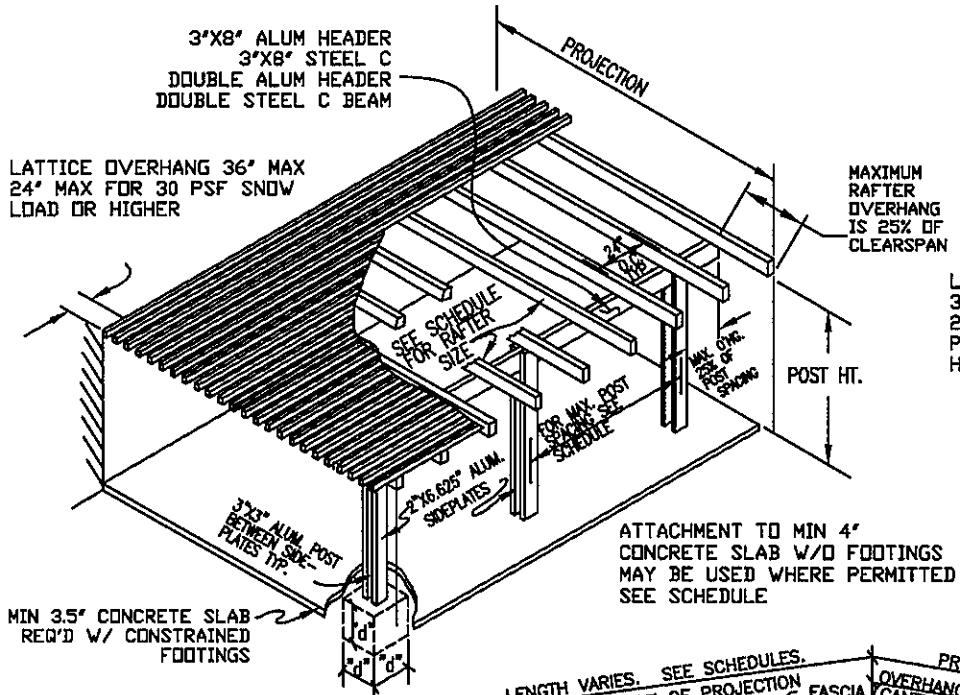


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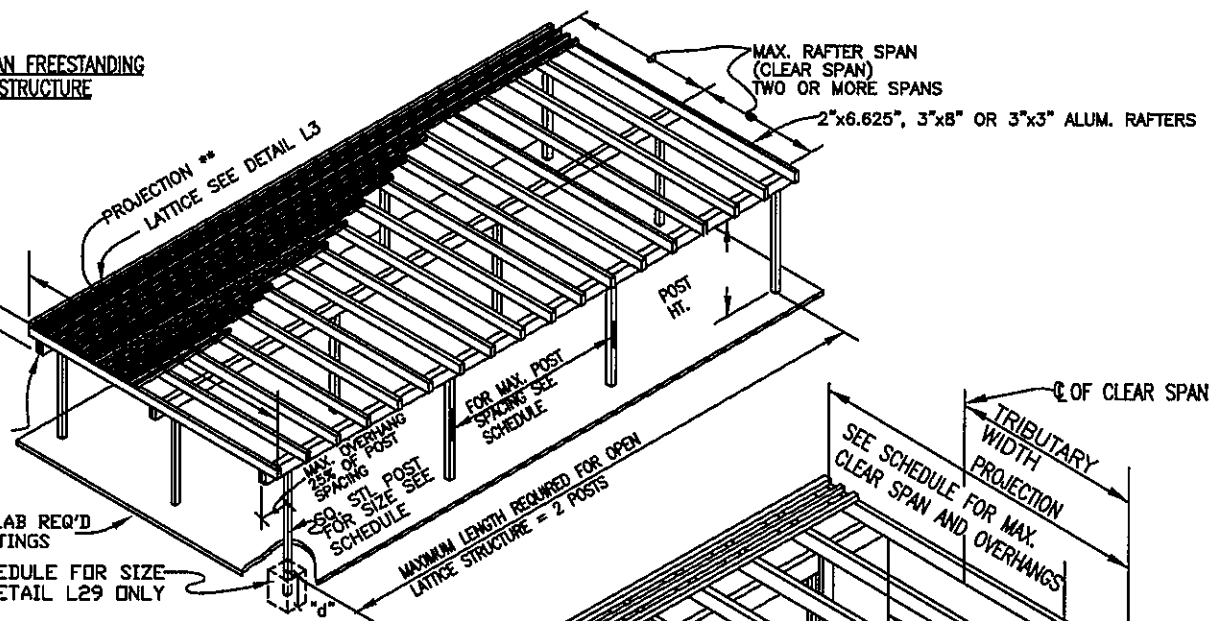


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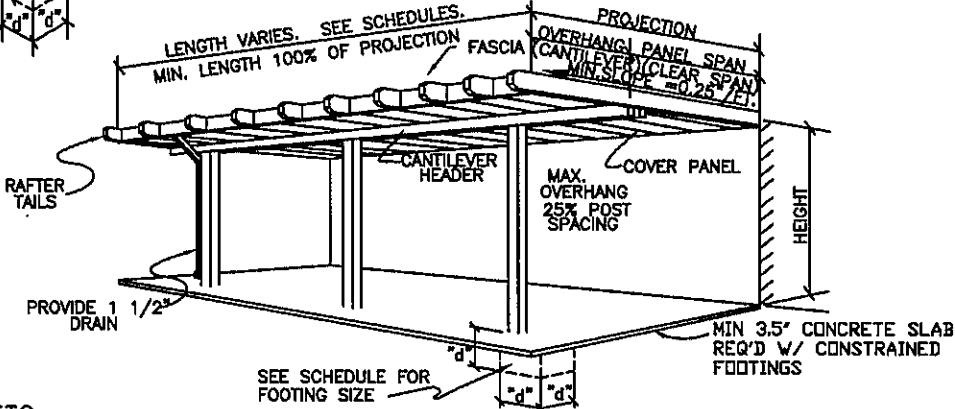
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SCALE: NONE	DRAWING OR PART NUMBER: SC01-2012
DATE:	SHEET 1 OF 2



MULTISPAN FREESTANDING LATTICE STRUCTURE

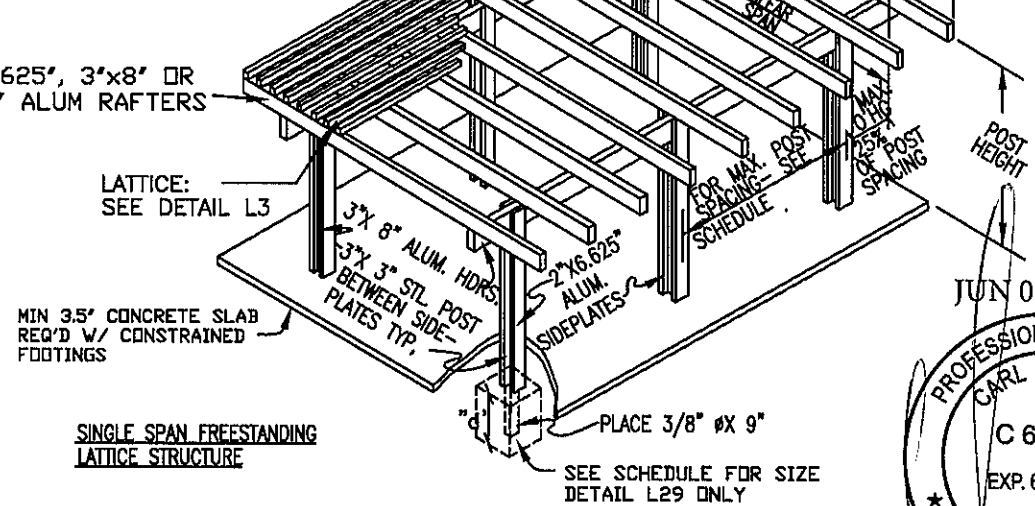


SINGLE SPAN ATTACHED LATTICE STRUCTURE



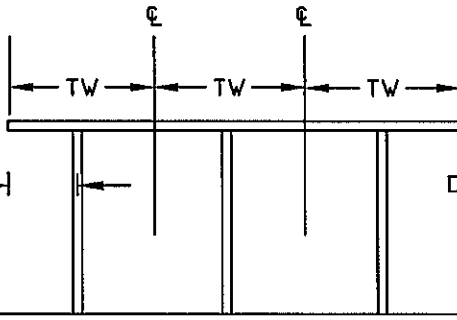
SINGLE SPAN ATTACHED CANTILEVERED STRUCTURE

2"x6.625", 3"x8" OR 3"x3" ALUM RAFTERS



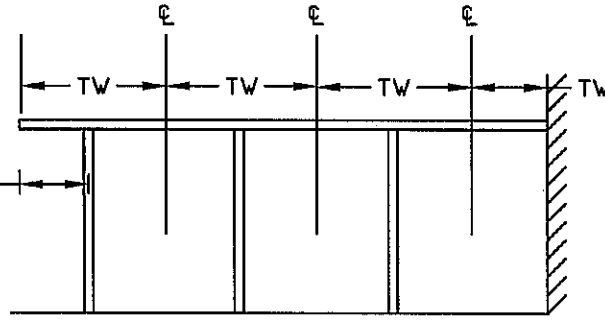
SINGLE SPAN FREESTANDING LATTICE STRUCTURE

MULTISPAN UNITS REFER TO GENERAL NOTE 22.



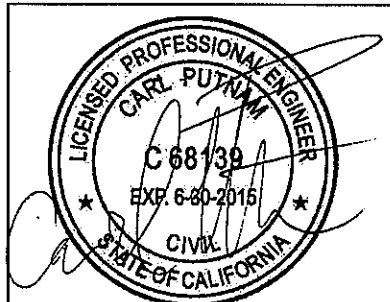
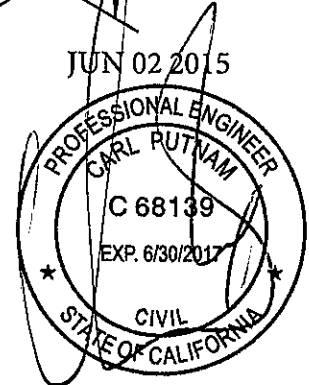
FREESTANDING STRUCTURE

ICC ESR1398 (2012 IBC) 9/29/2013



ATTACHED STRUCTURE

TRIBUTARY WIDTH (TW) DIAGRAM



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SCALE: NONE	DRAWING NUMBER: SC02-2012
DATE:	SHEET 2 OF 2

LATTICE COVER 2.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS NORMAL WIND AREA

TABLE 2.5

16 Ga 3"x8" Steel C Beam (Detail L18)				12 Ga 3"x8" Steel C Beam (Detail L18)				Double 12 Ga 3"x8" Steel C (Detail L8)																						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING FOR ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units																
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)											
115 MPH EXPOSURE C or 130 MPH EXPOSURE B																														
20 LIVE	5.5	7'-1"	A	12'-11"	D	23	25	28	30	22'-1"	F	28	28	31	33	30'-1"	F	31	31	33	35									

TABLE 2.5

16 Ga 3"x8" Steel C Beam (Detail L18)				12 Ga 3"x8" Steel C Beam (Detail L18)				Double 12 Ga 3"x8" Steel C (Detail L8)																						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING FOR ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units																
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)											
115 MPH EXPOSURE B																														
40	5	3'-7"	A	8'-2"	E	18	21	23	25	16'-3"	F	22	24	27	28	23'-10"	G	25	26	29	31									

TABLE 2.5

16 Ga 3"x8" Steel C Beam (Detail L18)				12 Ga 3"x8" Steel C Beam (Detail L18)				Double 12 Ga 3"x8" Steel C (Detail L8)																						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING FOR ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units																
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)											
115 MPH EXPOSURE B																														
25	5	5'-9"	A	12'-6"	E	20	23	25	27	21'-6"	F	24	25	28	30	27'-10"	F	27	27	30	32									

TABLE 2.5

16 Ga 3"x8" Steel C Beam (Detail L18)				12 Ga 3"x8" Steel C Beam (Detail L18)				Double 12 Ga 3"x8" Steel C (Detail L8)																						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING FOR ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units																
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)											
115 MPH EXPOSURE C or 130 MPH EXPOSURE B																														
40	5	3'-7"	A	8'-2"	E	20	23	25	27	16'-3"	F	25	26	29	31	23'-10"	G	28	28	32	34									

TABLE 2.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES

PROJECTION OF SINGLE SPAN STRUCTURES (FT)

OVER-HANG (FT)	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'
0'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'
1'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'
2'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'
3'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'	12.5'
4'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'	12.5'	13'
5'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'	12.5'	13'	13.5'

TABLE 2.5

16 Ga 3"x8" Steel C Beam (Detail L18)				12 Ga 3"x8" Steel C Beam (Detail L18)				Double 12 Ga 3"x8" Steel C (Detail L8)																						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING FOR ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units		Attached Single Span Structure		Freestanding or Multispan Units																
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15' (in)											
115 MPH EXPOSURE C or 130 MPH EXPOSURE B																														
25	5	5'-9"	A	12'-6"	E	23	25	28	29	21'-6"	F	27	28	31	33	27'-10"	F	30	30	33	35									

TABLE 2.3 Post Requirements for Attached Single Span Structures

Post Description	Max Hgt	POST Code	Detail
0.042"x3"x8" Aluminum Post	10'	B	L1
0.024"x3"x3" Post with Sideplat	11'	B	L24
Clover 0.030"x3"x3" Alum	11'	C	L11
Clover 0.040"x3"x3" Alum	11'	D	L11
Colonial 0.062" Extruded	12'	E	AE
0.041"x3"x3" Steel Clover	11'	F	L11
0.041"x3"x3" Steel Clover	8'	G	L11
3/16"x3"x3" Steel Square	15'	H	L21
3/16"x3"x3" Steel Square	12'	I	L21
3/16"x4"x4" Steel Square	15'	J	L21
3/16"x5"x5" Steel Square	15'	K	L21

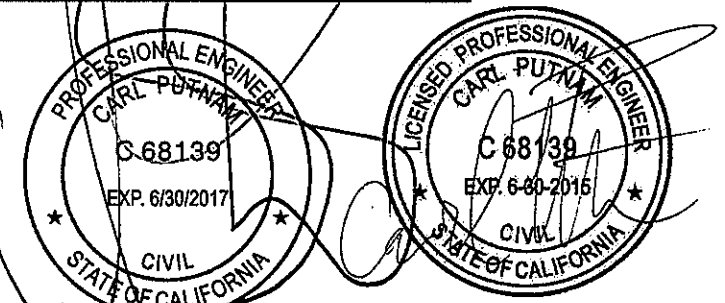
TABLE 2.4 Post Requirements for Freestanding Structures or Multispan Attached Structures

Post Description	Maximum Footing	Max Height	POST Code	Detail #
0.041"x3"x3" Steel Clover	d= 20"	9'	B	L11
0.041"x3"x3" Steel Clover	d= 21"	8'	B	L11
3/16"x3"x3" Steel Square	d= 30"	12'	C	L21
3/16"x3"x3" Steel Square	d= 32"	8'	F	L21
3/16"x3"x3" Steel Square	d= 35"	15'	F	L21
3/16"x3"x3" Steel Square	d= 37"	12'	E	L21
3/16"x4"x4" Steel Square	d= 41"	15'	G	L21
3/16"x5"x5" Steel Square	d= 45"	15'	L21	

- 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 20PSF MIN)
 4. CHOOSE A RAFTER FROM SECTION 1.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
 5. DETERMINE TRIBUTARY WIDTH FROM TABLE 2.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ONSC02 PAGE 2 OF 2
 6. CHOOSE A HEADER FROM TABLE 2.5 THAT HAS ADEQUATE POST SPACING.
 7. USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 2.5
 8. FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 2.5 AND 2.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 2.4
 9. FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.6
 10. USE THE APPROPRIATE DETAILS (L1-L29). DETAILS MAY REQUIRE POST TO UPGRADE.
 11. ALL LATTICE NOT USING DETAIL L29 MUST COMPLY WITH TABLES L1 AND L2 ON SHEET MISC5 FOR PATIO SLABS FOLLOW 1-6 FROM ABOVE THEN
 - SLAB 7. DETERMINE MAXIMUM POST SPACING ON SLAB FROM TABLE 2.5
 - SLAB 8. USE THE SMALLER OF THE POST SPACING ON SLAB OR HEADER POST SPACING
 - SLAB 9. FOLLOW 9-11 FROM ABOVE
 - SLAB 10. FOR TWO POST STRUCTURES USE TABLE 7.1 ON SHEET MISC3 FOR SLAB REQUIREMENTS INSTEAD OF THESE TABLES

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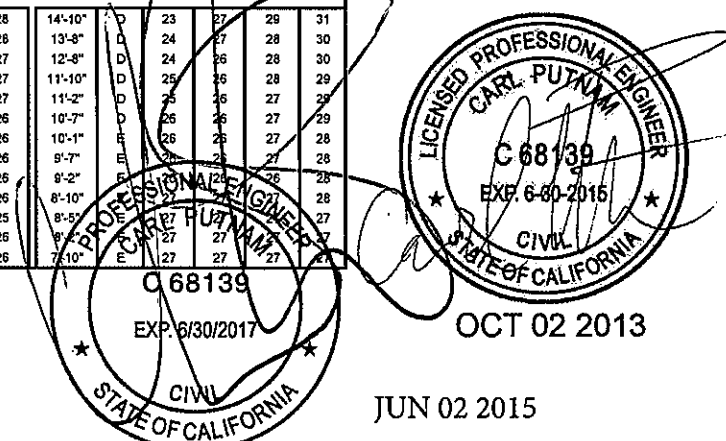


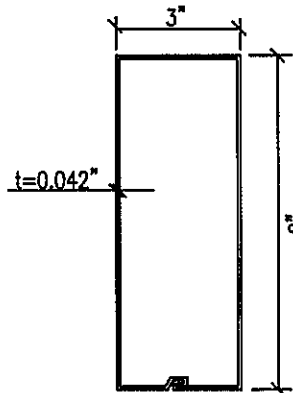
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LATTICE COVER 3.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREA

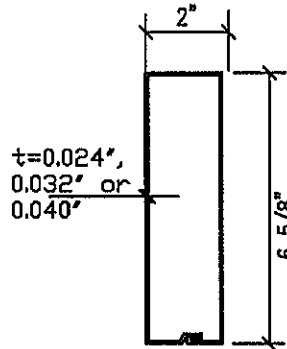
Table 3.1: Lattice cover 3.0 post spacings for patio and commercial covers high wind area. Includes columns for Ground Snow Load (PSF), Live Load (LIVE), and various post spacing configurations (8', 10', 12').

Table 3.1: Lattice cover 3.0 post spacings for patio and commercial covers high wind area. Includes columns for Ground Snow Load (PSF), Live Load (LIVE), and various post spacing configurations (8', 10', 12').





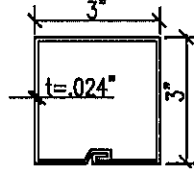
L1) HEADER (3004-H34 ALUM. ALLOY)



L2) RAFTER & SIDEPLATES (3004-H34 ALUM. ALLOY)

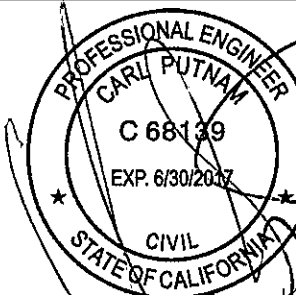
L3) LATTICE TUBES
 1 1/2"x1 1/2" @3" o/c
 2"x2" @4" o/c
 3"x3" @6" o/c
 2"x3" @5" o/c

LATTICE 3105 H24 ALUM ALLOY



L4) POST/RAFTER/LATTICE TUBE (3004-H34 ALUM. ALLOY)

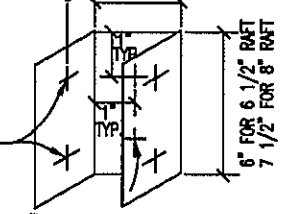
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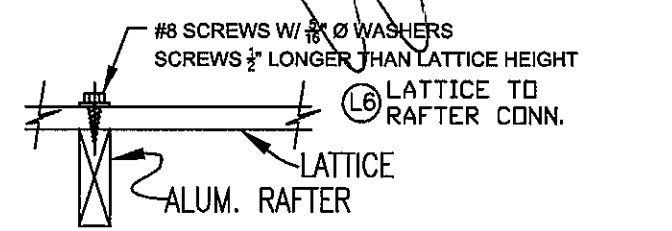
SEE TABLE 7.6 FOR REQUIRED FASTENERS

L = 1.92" FOR 2" X 6 1/2" RAFTERS
 L = 2.92" FOR 3" X 8" RAFTERS

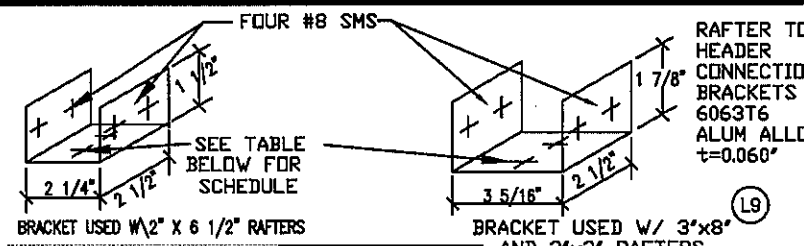
TWO #8 SMS EACH SIDE
 THREE #8 SMS EACH SIDE FOR 3X8 RAFTERS IN 25 PSF GROUND SNOW LOADS OR 140 MPH WIND AREAS



(6063-T5 ALUM. ALLOY, 't' = 0.078")
 L7) RAFTER HANGER

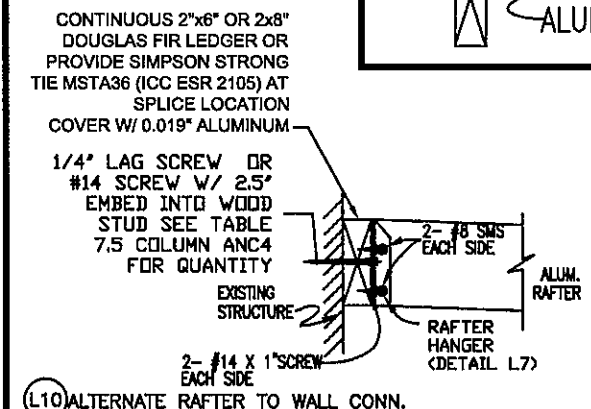


L6) LATTICE TO RAFTER CONN.

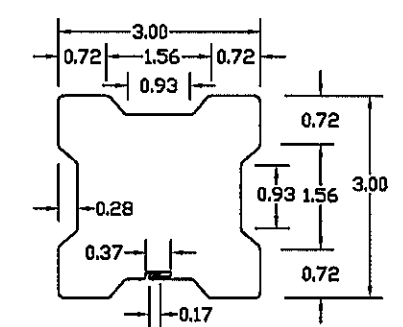


Wind Speed	t (in)	Header	Allowable Trib Width			
			2	3	4	5
115 mph Exp C	0.040	Double 2x6	11'	15'		
	0.042	0.042"x3"x8"	6'	9'	12'	15'
	0.042	Double 3x8	12'	15'		
140 mph Exp C	0.040	Double 2x6	9'	13'	15'	
	0.042	0.042"x3"x8"	5'	7'	9'	12'
	0.042	Double 3x8	9'	14'	15'	
			#14 Screws			
170 mph Exp C	0.040	Double 2x6	8'	12'	15'	
	0.042	0.042"x3"x8"	4'	6'	8'	11'
	0.042	Double 3x8	8'	13'	15'	
140 mph Exp C	16G min	8" Steel C	15'			
	16G min	Double Steel C	15'			
170 mph Exp C	16G min	8" Steel C	11'	15'		
	16G min	Double Steel C	15'			

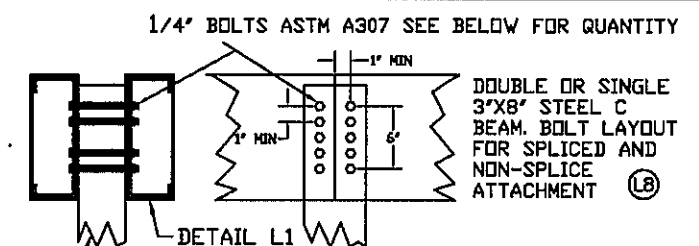
DOUBLE HEADERS USE ONE BRACKET PER HEADER



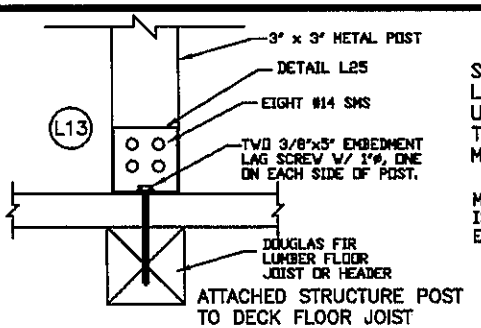
L10) ALTERNATE RAFTER TO WALL CONN.



L11) 3" ALTERNATE POST (3105 H25 ALUM. ALLOY OR A-653 Fy=40 KSI STEEL)

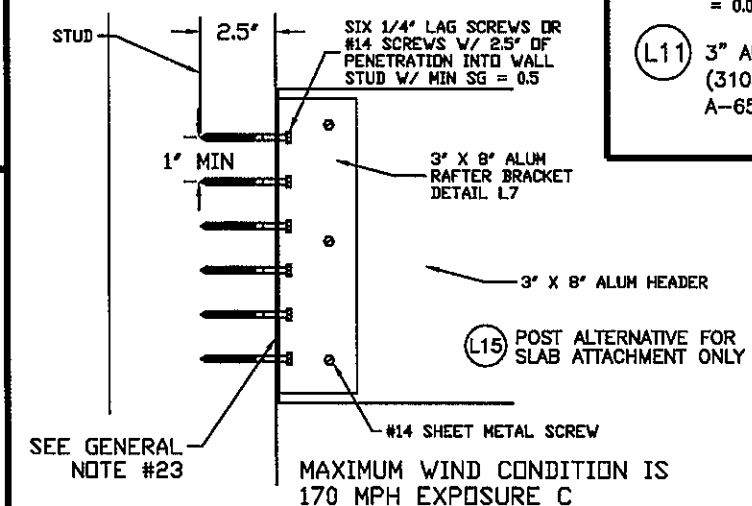


Beam Type	Req'd # of 1/4" bolts
All C Beams "On Slab"	4
16G Steel 3x8	4
12G Steel 3x8	8
Double 12G Steel 3x8	8



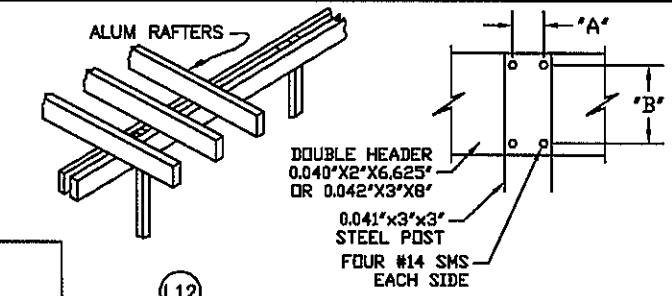
SEE GENERAL NOTE #19 AND LATTICE NOTE #3 UNITS MUST COMPY WITH TABLES L1 AND L2 ON SHEET M5

MAX WIND SPEED IS 115 mph EXPOSURE C



SEE GENERAL NOTE #23

MAXIMUM WIND CONDITION IS 170 MPH EXPOSURE C



L12)

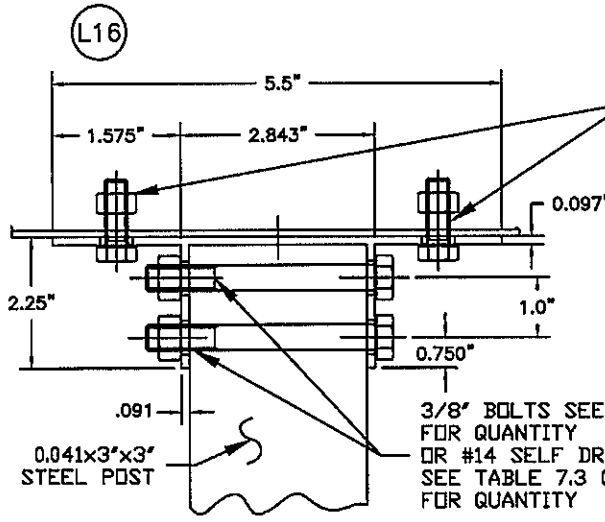
NOTE: SEE SHEET MISC5a OR MISC5b FOR MOMENT CONNECTION SPECS



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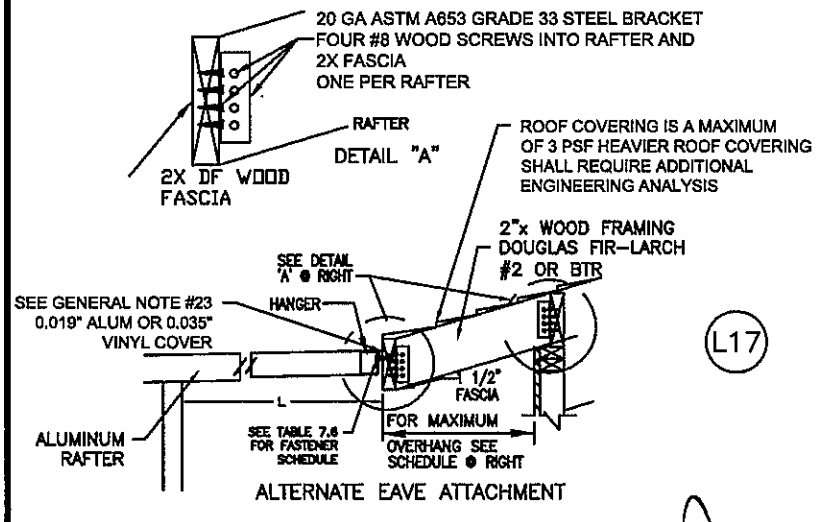
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DATE:	FILE#: LT01-2012
	SHEET: 1 of 4



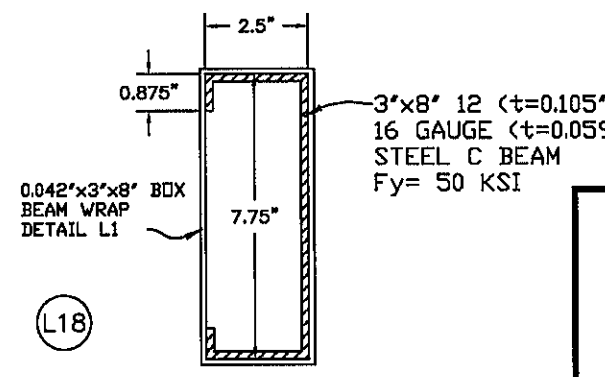
L16
 3/8" BOLTS W/ 1" DIA. x 3/32" THK. STL. WASHER TO 8" STEEL "C" BEAM
 SEE TABLE 7.4 COLUMN "N" FOR QUANTITY
 FOR #14 SELF DRILLING SCREWS SEE TABLE 7.4 COLUMN "L".

ALTERNATE 3" SQ POST CONNECTOR BRACKET (6063T6 ALUM)
 IF DETAIL L29 IS NOT USED ATTACH SIDE PLATES AS PER DETAIL L26

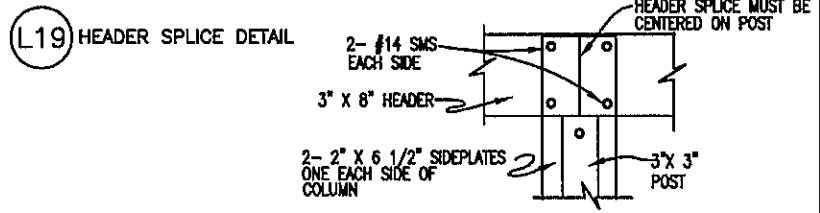
3/8" BOLTS SEE TABLE 7.3 COLUMN "H" FOR QUANTITY
 OR #14 SELF DRILLING SCREWS SEE TABLE 7.3 COLUMN "G" FOR QUANTITY



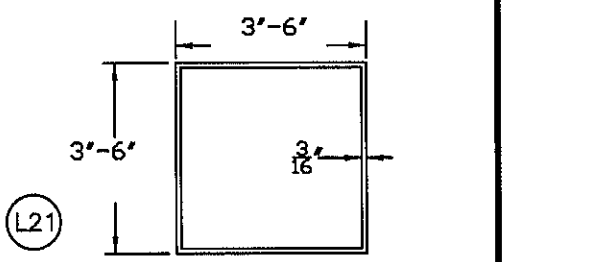
Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L"				
		EAVE OVERHANG				
		6"	12"	18"	24"	30"
10 psf Lattice=135 Exp C	2x4	25'-0"	20'-9"	12'-0"	7'-1"	3'-8"
	2x6	25'-0"	25'-0"	25'-0"	23'-10"	17'-1"
	2x8	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"
10 psf Lattice=140 Exp C	2x4	25'-0"	19'-3"	11'-6"	7'-1"	3'-8"
	2x6	25'-0"	25'-0"	25'-0"	22'-8"	16'-7"
	2x8	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"
20 psf Lattice=170 Exp C	2x4	19'-0"	10'-3"	5'-10"	3'-4"	1'-8"
	2x6	19'-0"	19'-0"	17'-1"	11'-9"	8'-4"
	2x8	19'-0"	19'-0"	19'-0"	19'-0"	16'-8"
25 psf Lattice=170 Exp C	2x4	18'-0"	11'-3"	6'-4"	3'-8"	1'-9"
	2x6	18'-0"	18'-0"	18'-0"	12'-10"	9'-1"
	2x8	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
30 psf Lattice=170 Exp C	2x4	17'-0"	9'-2"	5'-1"	2'-8"	0'-0"
	2x6	17'-0"	17'-0"	15'-3"	10'-4"	7'-1"
	2x8	17'-0"	17'-0"	17'-0"	17'-0"	14'-8"
40 psf Lattice=170 Exp C	2x4	14'-0"	6'-7"	3'-4"	0'-0"	0'-0"
	2x6	14'-0"	14'-0"	11'-0"	7'-2"	4'-7"
	2x8	14'-0"	14'-0"	14'-0"	14'-0"	10'-3"
60 psf Lattice=170 Exp C	2x4	9'-0"	4'-0"	0'-0"	0'-0"	0'-0"
	2x6	9'-0"	9'-0"	6'-9"	4'-0"	2'-1"
	2x8	9'-0"	9'-0"	9'-0"	8'-8"	5'-10"



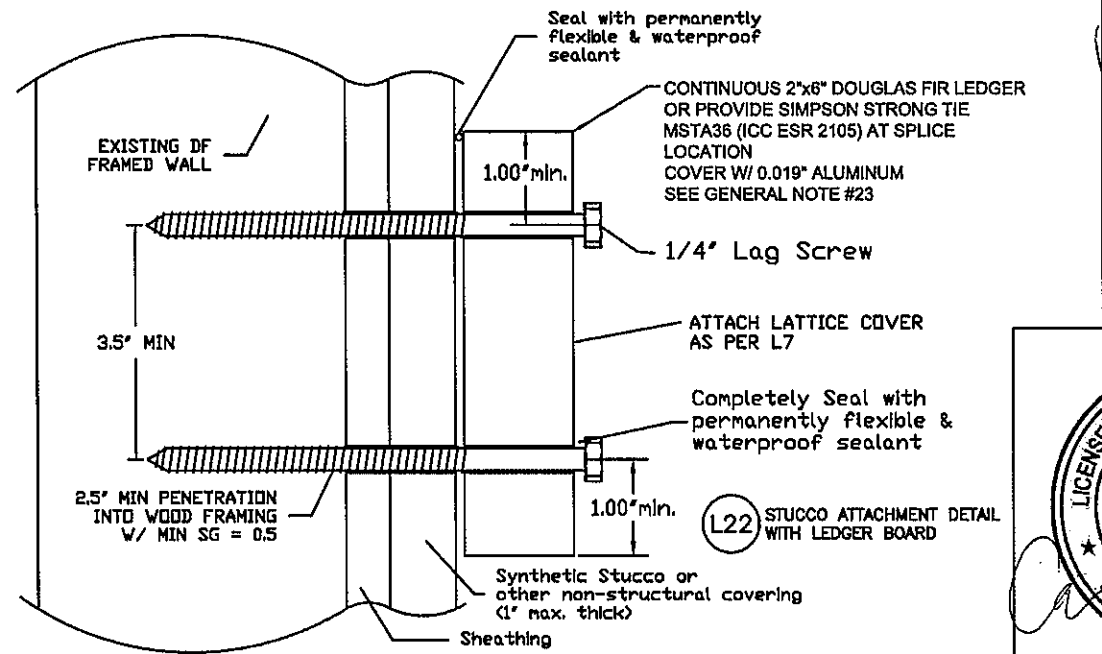
L18
 12 and 16 GA 3"x8" STEEL C BEAM W/ 0.042"x3"x8" ALUM WRAP



L19 HEADER SPLICE DETAIL
 2- #14 SMS EACH SIDE
 3" X 8" HEADER
 2- 2" X 6 1/2" SIDEPLATES ONE EACH SIDE OF COLUMN
 3" X 3" POST
 HEADER SPLICE MUST BE CENTERED ON POST

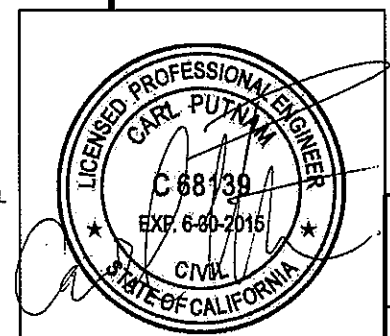
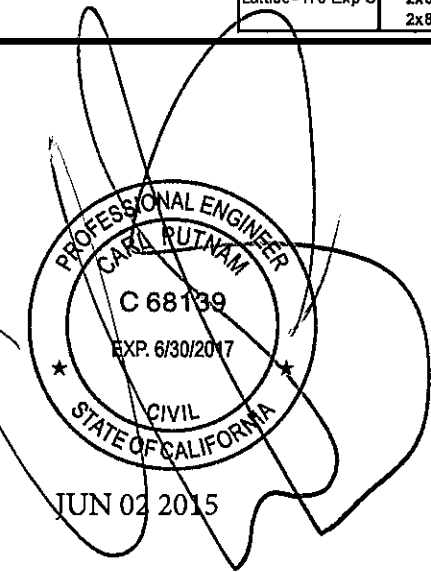


L21
 3', 4', 5' OR 6' ASTM A500 GRADE B STEEL POST
 SEE GENERAL NOTE #9 FOR CORROSION PROTECTION



L22 STUCCO ATTACHMENT DETAIL WITH LEDGER BOARD
 Seal with permanently flexible & waterproof sealant
 CONTINUOUS 2"x6" DOUGLAS FIR LEDGER OR PROVIDE SIMPSON STRONG TIE MSTA36 (ICC ESR 2105) AT SPLICE LOCATION COVER W/ 0.019" ALUMINUM SEE GENERAL NOTE #23
 1/4" Lag Screw
 ATTACH LATTICE COVER AS PER L7
 Completely Seal with permanently flexible & waterproof sealant
 2.5' MIN PENETRATION INTO WOOD FRAMING V/ MIN SG = 0.5
 Synthetic Stucco or other non-structural covering (1" max. thick)
 Sheathing
 1.00" min.
 3.5' MIN
 1.00" min.

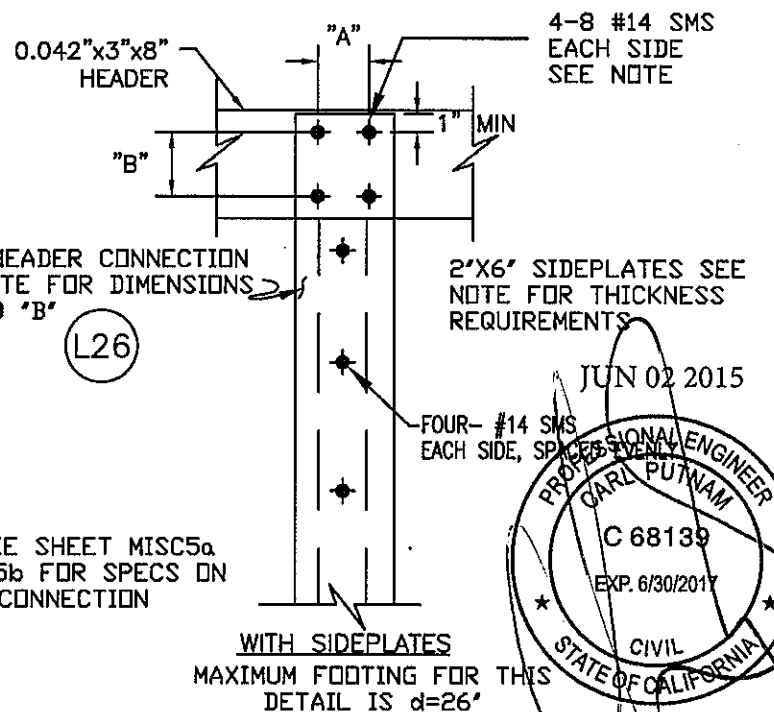
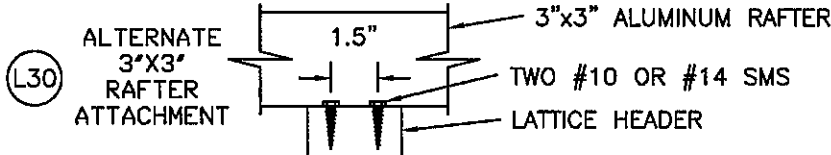
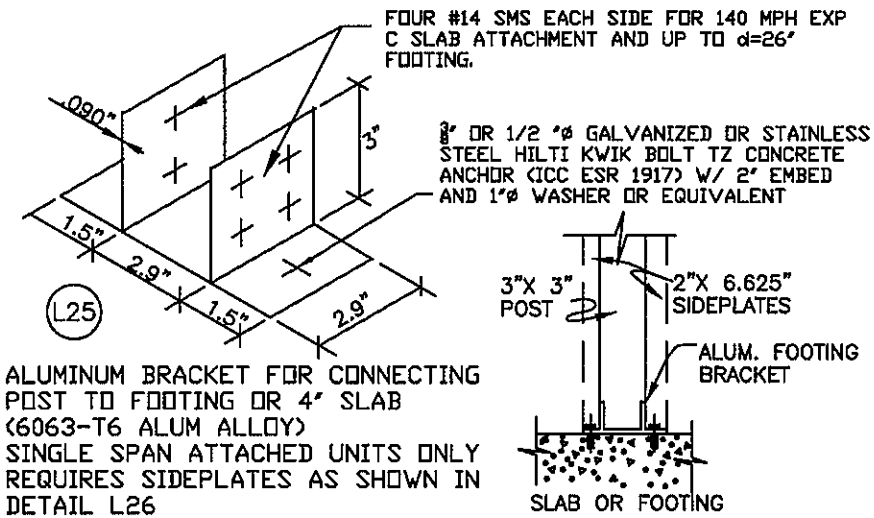
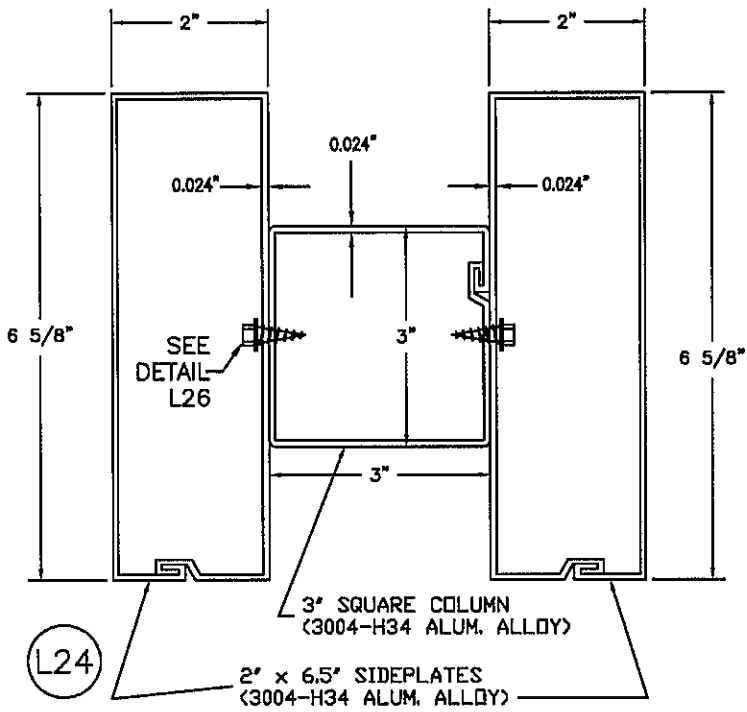
SEE ALLOWABLE DISTANCE TO FIRST ROW OF POSTS IN TABLE 7.7



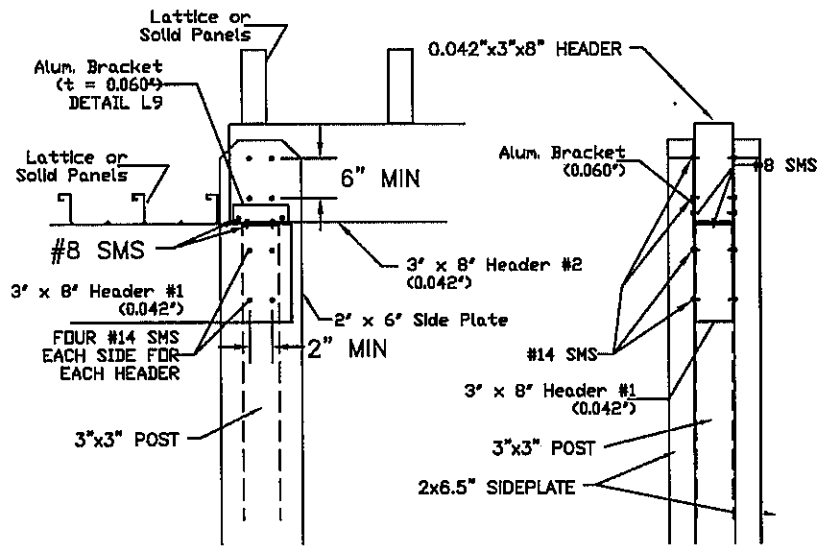
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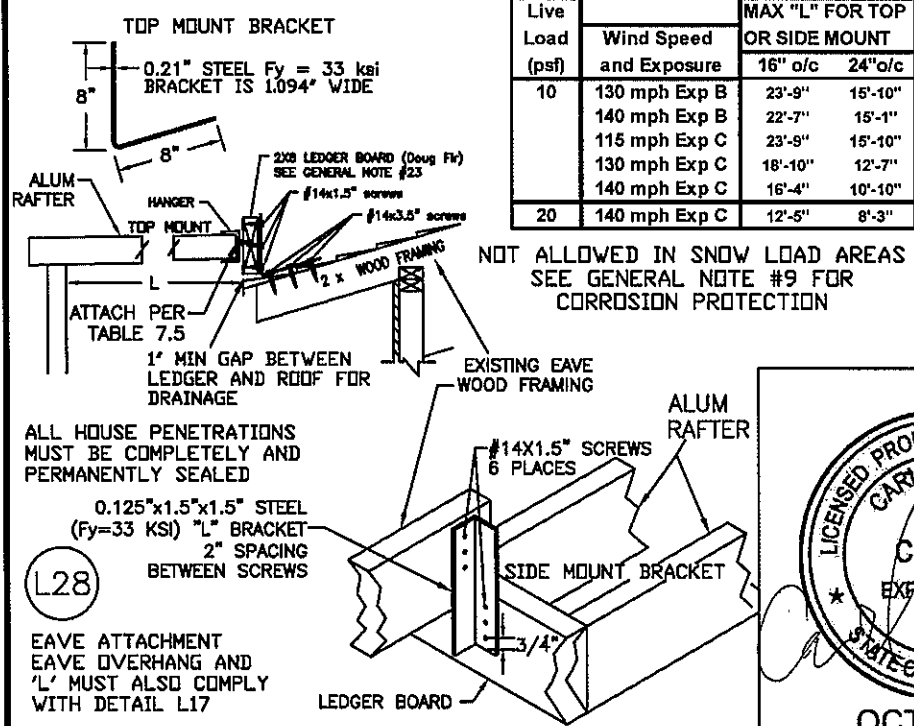
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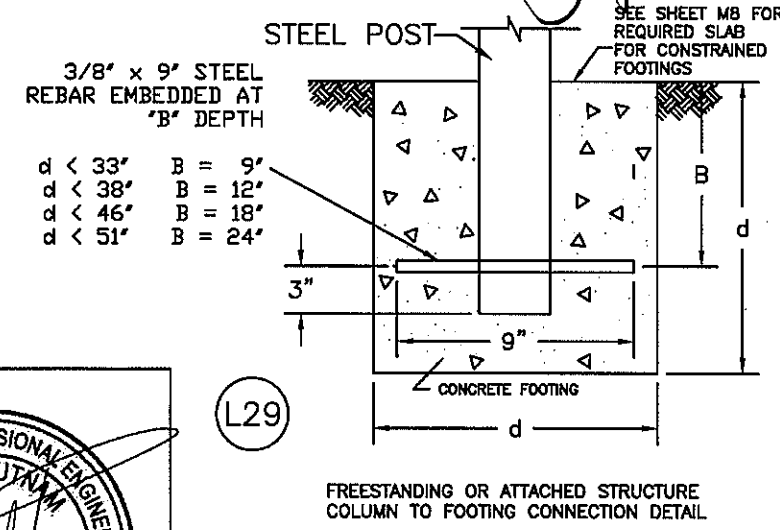


L27 ALTERNATIVE SPLICE FOR ATTACHED UNITS
 MAXIMUM FOOTING SIZE IS d=26"



Live Load (psf)	Wind Speed and Exposure	MAX "L" FOR TOP OR SIDE MOUNT	
		16" o/c	24" o/c
10	130 mph Exp B	23'-9"	15'-10"
	140 mph Exp B	22'-7"	15'-1"
	115 mph Exp C	23'-9"	15'-10"
20	130 mph Exp C	18'-10"	12'-7"
	140 mph Exp C	16'-4"	10'-10"

NOT ALLOWED IN SNOW LOAD AREAS
 SEE GENERAL NOTE #9 FOR CORROSION PROTECTION



L29

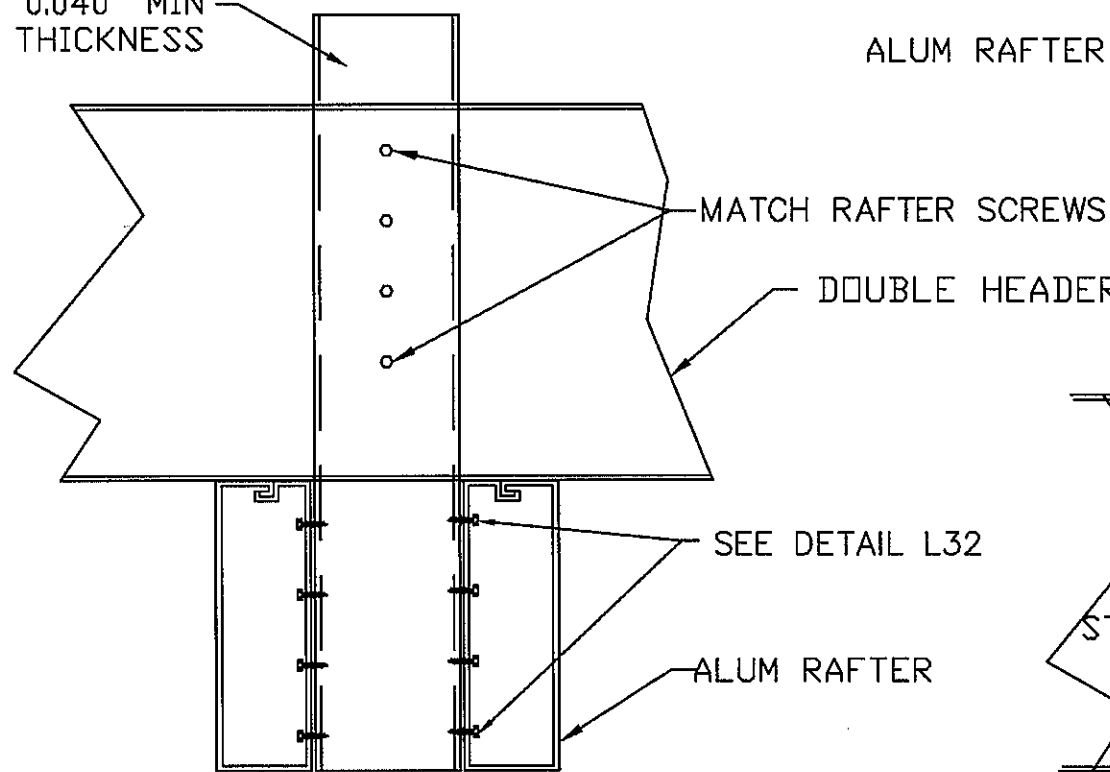
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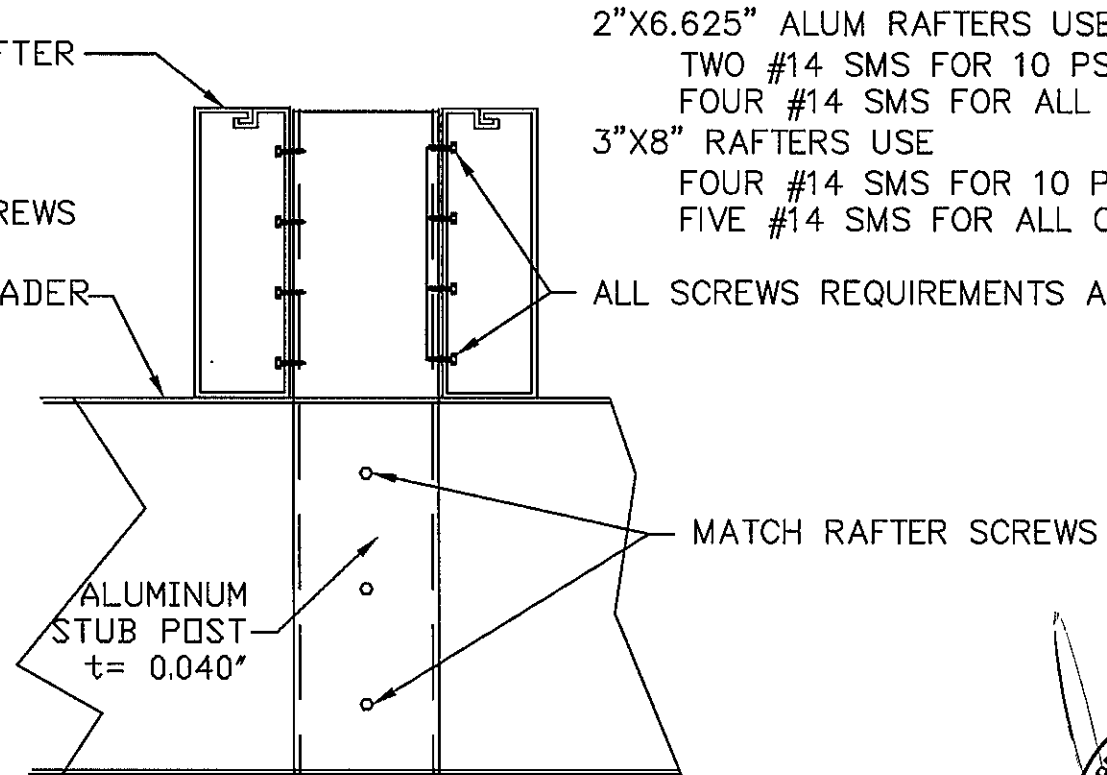
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DATE:	FILE: LT03-2012
	SHEET: 3 of 4

ALUMINUM
STUB POST
0.040" MIN
THICKNESS



(L31) UNDERHUNG DOUBLE RAFTERS

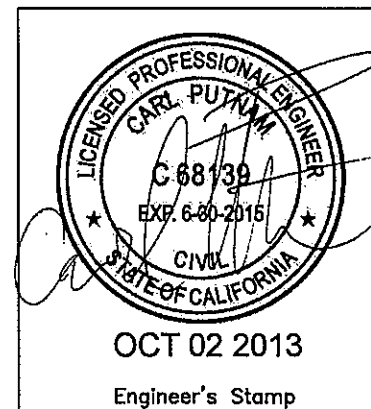
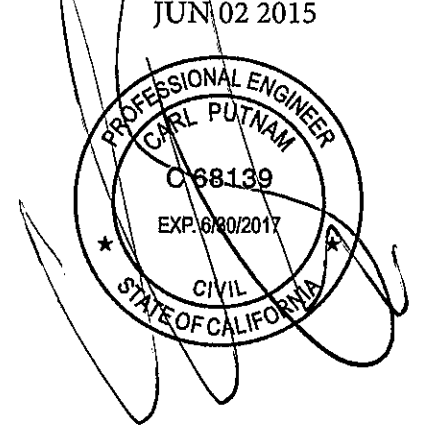
ALUM RAFTER



(L32) DOUBLE RAFTERS

2"X6.625" ALUM RAFTERS USE
TWO #14 SMS FOR 10 PSF/115 MPH EXP C
FOUR #14 SMS FOR ALL OTHERS
3"X8" RAFTERS USE
FOUR #14 SMS FOR 10 PSF/115 MPH EXP C
FIVE #14 SMS FOR ALL OTHER LOADS
ALL SCREWS REQUIREMENTS ARE PER RAFTER

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SCALE: NTS	Component Parts & Connection Details For Patio & Commercial Lattice Structures	
DATE:	FILE:	SHEET:

SOLID COVERS 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES

2.5" x6" Super Six (Single Span) Detail N3, A

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

3.5"x12" Super 12 (Single Span) Detail D

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

2.5" x 12" Mark X (Single Span) Detail B

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

2"x6" Flat Panel (Single Span) Detail N2, C

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

TABLE 4.1

TABLE 4.2

TABLE 4.3

TABLE 4.4

SINGLE SPAN TABLES

NOTE: PANELS MAY OVERHANG 25% OF THEIR CLEARSPAN

2.5" x6" Super Six (Multispan) Detail N3, A

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

3.5"x12" Super 12 (Multispan) Detail D

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

2.5" x 12" Mark X (Multispan) Detail B

Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

2"x6" Flat Panel (Multispan) Detail N2, C

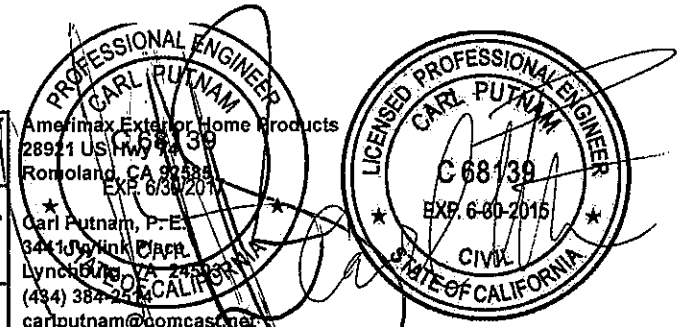
Table with 5 columns: Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure Exposure B (110, 115), and Exposure C (110, 115). Rows include 10 LIVE, 20 LIVE, 25, 30, 40, 60.

TABLE 4.5

TABLE 4.6

TABLE 4.7

TABLE 4.8



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MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #10 SCREWS FOR PANEL/HEADER COMBINATIONS Table 4.9

Table 4.9: Maximum Allowable Tributary Width and #10 Screws for Panel/Header Combinations. Columns include Headers, Panel Gauge (in), # of #10 screws per foot (115 mph Exp B, 115 mph Exp C, 140 mph Exp C), and MAX values for various header types (Dble 2x6.625, RF Fascia, 3x8, All Others).

'MAX' means the maximum possible tributary width
Minimum number of screws is on per panel
MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #14 SCREWS FOR PANEL/HEADER COMBINATIONS Table 4.10

Table 4.10: Maximum Allowable Tributary Width and #14 Screws for Panel/Header Combinations. Columns include Headers, Panel Gauge (in), # of #14 screws per foot (115 mph Exp B, 115 mph Exp C, 140 mph Exp C), and MAX values for various header types (Dble 2x6.625, RF Fascia, 3x8, All Others).

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SOLID COVERS 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES FOR HIGH WINDS

2.5" x6" Super Six (Single Span) Detail N3, A

3.5"x12" Super 12 (Single Span) Detail D

2.5" x 12" Mark X (Single Span) Detail B

2"x6" Flat Panel (Single Span) Detail N2, C

Table 4.11: Single span tables for 2.5" x6" Super Six (Single Span) Detail N3, A. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Table 4.12: Single span tables for 3.5"x12" Super 12 (Single Span) Detail D. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Table 4.13: Single span tables for 2.5" x 12" Mark X (Single Span) Detail B. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Table 4.14: Single span tables for 2"x6" Flat Panel (Single Span) Detail N2, C. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

SINGLE SPAN TABLES

NOTE: PANELS MAY OVERHANG 25% OF THEIR CLEARSPAN

2.5" x6" Super Six (Multispan) Detail N3, A

3.5"x12" Super 12 (Multispan) Detail D

2.5" x 12" Mark X (Multispan) Detail B

2"x6" Flat Panel (Multispan) Detail N2, C

Table 4.15: Multispan tables for 2.5" x6" Super Six (Multispan) Detail N3, A. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Table 4.16: Multispan tables for 3.5"x12" Super 12 (Multispan) Detail D. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Table 4.17: Multispan tables for 2.5" x 12" Mark X (Multispan) Detail B. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Table 4.18: Multispan tables for 2"x6" Flat Panel (Multispan) Detail N2, C. Columns include Ground Snow Load (psf), Panel Gauge (in), Wind Speed and Exposure (Exp B, Exposure C), and various wind speed/exposure combinations.

Professional Engineer information: Carl Putnam, P.E., License No. C 68139, State of California. Includes contact information for American Express Products.



MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #10 SCREWS FOR PANEL/HEADER COMBINATIONS Table 4.9

Table 4.9: Maximum allowable tributary width and #10 screws for panel/header combinations. Columns include Headers, Panel Gauge, # of #10 screws per foot (115 mph Exp B, 115 mph Exp C, 140 mph Exp C), and various header types like Dble 2x6.625, RF Fascia, 3x8, and All Others.

'MAX' means the maximum possible tributary width. Minimum number of screws is on per panel. MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #14 SCREWS FOR PANEL/HEADER COMBINATIONS Table 4.10

Table 4.10: Maximum allowable tributary width and #14 screws for panel/header combinations. Columns include Headers, Panel Gauge, # of #14 screws per foot (115 mph Exp B, 115 mph Exp C, 140 mph Exp C), and various header types like Dble 2x6.625, RF Fascia, 3x8, and All Others.

SOLID COVER 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS IN 115 MPH WIND AREAS

TABLE 5.1: 0.042"x3"x8" Box Beam (Detail N30), Double 0.042"x3"x8" Beam (Detail N25), Double 0.040"x2"x6.625" Beam (Detail N25)

TABLE 5.1: 0.042"x3"x8" Box Beam (Detail N30), Double 0.042"x3"x8" Beam (Detail N25), Double 0.040"x2"x6.625" Beam (Detail N25)

115 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.

115 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.

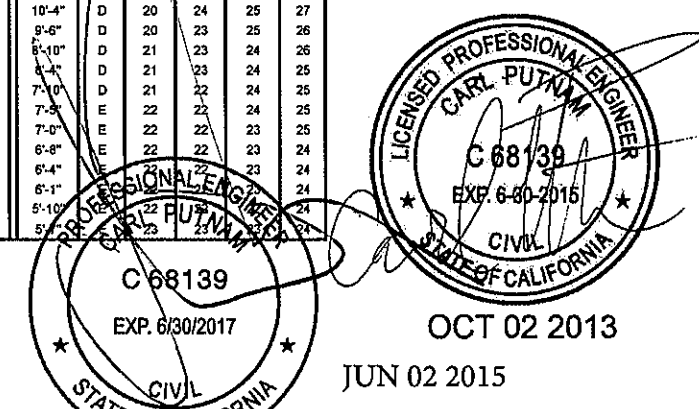
115 MPH EXPOSURE C or 130 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.

115 MPH EXPOSURE C or 130 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.

115 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.

115 MPH EXPOSURE C or 130 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.

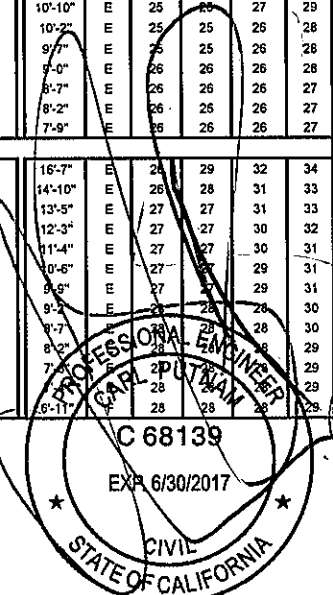
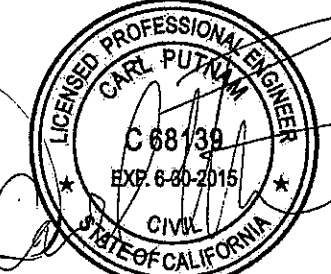
115 MPH EXPOSURE B: Table with columns for Ground Snow Load (PSF), Live Load Only, and various beam and post configurations.



SOLID COVER 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS IN 115 MPH WIND AREAS

TABLE 5.7 4"x3" I Beam (Detail Y)										7"x4" I Beam (Detail Q)										16 Gauge x3"x8" Steel C (Detail T)																															
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	Attached Structure			Freestanding or Multispan Units																										
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'				MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'				MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'																											
				"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)				"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)				"d" (in)	"d" (in)	"d" (in)																											
115 MPH EXPOSURE B																																																			
10 LIVE LOAD ONLY	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13
115 MPH EXPOSURE C or 130 MPH EXPOSURE B																																																			
10 LIVE LOAD ONLY	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13
115 MPH EXPOSURE B																																																			
20 LIVE LOAD ONLY	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13

TABLE 5.7 4"x3" I Beam (Detail Y)										7"x4" I Beam (Detail Q)										16 Gauge x3"x8" Steel C (Detail T)																															
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	Attached Structure			Freestanding or Multispan Units																										
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'				MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'				MAX POST LENGTH 8' 12' 15'	MAX POST LENGTH 8' 12' 15'																												
				"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)				"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)	"d" (in)				"d" (in)	"d" (in)																												
115 MPH EXPOSURE B																																																			
30	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13
115 MPH EXPOSURE C or 130 MPH EXPOSURE B																																																			
30	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13
120 MPH EXPOSURE B																																																			
30	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13
120 MPH EXPOSURE C or 140 MPH EXPOSURE B																																																			
30	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13	3	3.5	4	4.5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	12	13



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SOLID COVER 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS IN 115 MPH WIND AREAS

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

		TABLE 5.7 4"x3" I Beam (Detail Y)										TABLE 5.7 7"x4" I Beam (Detail Q)										TABLE 5.7 16 Gauge x3"x8" Steel C (Detail T)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure			Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	8"	12"	15"	8"				12"	15"	8"	12"				15"	8"	12"	15"							

TABLE 5.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES

OVER-HANG (FT)	PROJECTION OF SINGLE SPAN STRUCTURES (FT)																					
	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'					
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'					
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'					
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'					
4'	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'							

TABLE 5.3 Post Requirements for Attached Single Span Structures

Post Description	Max Hgt	POST Code	Detail
Twin 0.060"x1.5"x1.5" Scroll	9'	A	AC
0.042"x3"x8" Aluminum Post	10'	B	N0
0.024"x3"x3" Post with Sideplat	11'	B	N16, BK
Clover 0.030"x3"x3" Alum	11'	C	N11, AH
Clover 0.040"x3"x3" Alum	11'	D	N11, AH
Colonial 0.062" Extruded	12'	E	AE
0.041"x3"x3" Steel Clover	11'	F	N11, AH
0.041"x3"x3" Steel Clover	8'	G	N11, AH
3/16"x3"x3" Steel Square	15'	H	N17, AG
3/16"x3"x3" Steel Square	12'	I	N17, AG
3/16"x4"x4" Steel Square	15'	J	N17, AG
3/16"x5"x5" Steel Square	15'	K	N17, AG

TABLE 5.4 Post Requirements for Freestanding Structures or Multispan Attached Structures

Post Description	Maximum Footing	Max Height	POST Code	Detail #
0.041"x3"x3" Steel Clover	d= 20"	9'	B	N11, AH
0.041"x3"x3" Steel Clover	d= 21"	8'	B	N11, AH
3/16"x3"x3" Steel Square	d= 29"	14'	E	N17, AG
3/16"x3"x3" Steel Square	d= 32"	8'	F	N17, AG
3/16"x4"x4" Steel Square	d= 35"	14'	F	N17, AG
3/16"x4"x4" Steel Square	d= 38"	9'	F	N17, AG
3/16"x5"x5" Steel Square	d= 41"	15'	G	N17, AG
3/16"x6"x6" Steel Square	d= 46"	15'	I	N17, AG

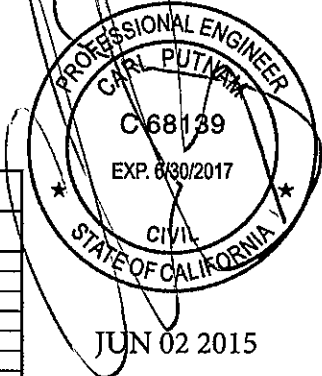
- GENERAL INSTRUCTIONS FOR THESE TABLES**
- CHOOSE FREESTANDING OR ATTACHED STRUCTURE
 - CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
 - DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE (PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS USE 20PSF MIN)
 - CHOOSE A PANEL FROM SECTION 4.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
 - DETERMINE TRIBUTARY WIDTH FROM TABLE 5.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
 - CHOOSE A HEADER FROM TABLE 5.7 THAT HAS ADEQUATE POST SPACING.
 - USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 5.7

- FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 5.7 AND 5.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 5.4
- FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
- USE THE APPROPRIATE DETAILS (N1-N35 or A-BM)

FOR PATIO SLABS FOLLOW 1-6 FROM ABOVE THEN
 SLAB 7. DETERMINE MAXIMUM POST SPACING ON SLAB FROM TABLE 5.7
 SLAB 8. USE THE SMALLER OF THE POST SPACING ON SLAB OR HEADER POST SPACING
 SLAB 9. FOLLOW 9-10 FROM ABOVE
 SLAB 10. FOR TWO POST STRUCTURES USE TABLE 7.1 ON SHEET MISC3 FOR SLAB REQUIREMENTS INSTEAD OF THESE TABLES

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OCT 02 2013

SOLID COVER 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS IN 115 MPH WIND AREAS

TABLE 5.8 12 Gauge x3"x8" Steel C (Detail T)													Double 16 Ga 3"x8" Steel C (Detail T and A)													Double 12 Ga 3"x8" Steel C (Detail T and A)												
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQD FOR SLAB	MAX POST SPACING (FT)	Attached Structure				Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH								
					MIN POST TYPE	FOOTER SIZE "d" (in)	8' (in)	12' (in)	15' (in)	MIN POST TYPE	FOOTER SIZE "d" (in)	8' (in)				12' (in)	15' (in)	MIN POST TYPE	FOOTER SIZE "d" (in)				8' (in)	12' (in)	15' (in)													
					CONstrained	FOOTER	FOOTER	FOOTER	CONstrained	FOOTER	FOOTER	FOOTER				CONstrained	FOOTER	FOOTER	FOOTER				CONstrained	FOOTER	FOOTER	FOOTER												

115 MPH EXPOSURE B																																															
10 LIVE LOAD ONLY	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12	13	24'-8"	23'-11"	23'-3"	22'-7"	22'-1"	21'-7"	21'-1"	20'-8"	20'-3"	19'-8"	19'-1"	18'-7"	18'-2"	17'-8"	17'-3"	28'-11"	29'-0"	28'-2"	27'-5"	26'-8"	26'-1"	25'-7"	25'-1"	24'-7"	24'-2"	23'-9"	23'-4"	23'-0"	22'-8"	22'-4"

115 MPH EXPOSURE C or 130 MPH EXPOSURE B																																																					
10 LIVE LOAD ONLY	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12	13	23'-2"	22'-5"	21'-10"	21'-3"	20'-8"	20'-3"	19'-7"	18'-11"	18'-4"	17'-10"	17'-4"	16'-10"	16'-5"	16'-0"	15'-8"	14'-11"	14'-3"	13'-9"	28'-1"	27'-3"	26'-5"	25'-9"	25'-1"	24'-6"	24'-0"	23'-6"	23'-1"	22'-8"	22'-3"	21'-11"	21'-7"	21'-3"	21'-0"	20'-5"	19'-11"	19'-6"

115 MPH EXPOSURE B																																																				
20 LIVE LOAD ONLY	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12	13	21'-10"	21'-2"	20'-7"	20'-0"	19'-2"	18'-6"	17'-10"	17'-3"	16'-8"	16'-2"	15'-9"	15'-4"	14'-11"	14'-6"	14'-2"	13'-6"	12'-11"	12'-4"	26'-5"	25'-8"	24'-11"	24'-3"	23'-6"	23'-1"	22'-7"	21'-4"	21'-0"	20'-8"	20'-4"	20'-0"	19'-8"	19'-4"	19'-0"	18'-8"	18'-4"

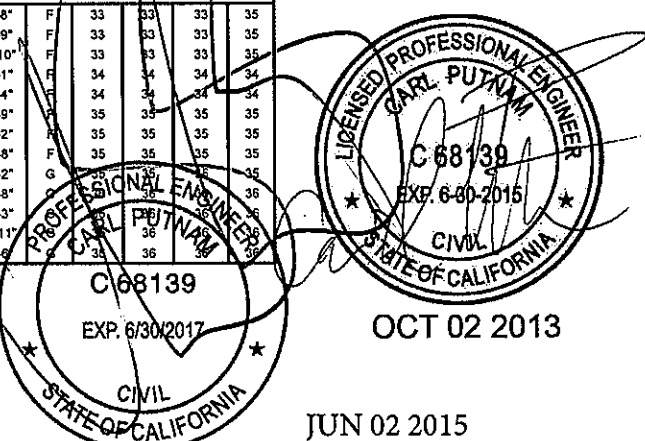
TABLE 5.8 12 Gauge x3"x8" Steel C (Detail T)													Double 16 Ga 3"x8" Steel C (Detail T and A)													Double 12 Ga 3"x8" Steel C (Detail T and A)												
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQD FOR SLAB	MAX POST SPACING (FT)	Attached Structure				Freestanding or Multispan Units				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH								
					MIN POST TYPE	FOOTER SIZE "d" (in)	8' (in)	12' (in)	15' (in)	MIN POST TYPE	FOOTER SIZE "d" (in)	8' (in)				12' (in)	15' (in)	MIN POST TYPE	FOOTER SIZE "d" (in)				8' (in)	12' (in)	15' (in)													
					CONstrained	FOOTER	FOOTER	FOOTER	CONstrained	FOOTER	FOOTER	FOOTER				CONstrained	FOOTER	FOOTER	FOOTER				CONstrained	FOOTER	FOOTER	FOOTER												

115 MPH EXPOSURE B																																																							
30	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	17'-11"	16'-11"	16'-0"	15'-2"	13'-10"	13'-3"	12'-9"	12'-3"	11'-10"	11'-5"	11'-0"	10'-8"	10'-4"	20'-9"	20'-1"	19'-3"	18'-5"	17'-9"	17'-1"	16'-5"	15'-11"	15'-4"	14'-11"	14'-5"	14'-1"	13'-8"	13'-4"	25'-2"	24'-5"	23'-8"	23'-1"	22'-6"	22'-0"	21'-6"	21'-1"	20'-8"	20'-4"	20'-0"	19'-8"	19'-4"	19'-1"

115 MPH EXPOSURE C or 130 MPH EXPOSURE B																																																							
30	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	16'-9"	16'-9"	14'-10"	14'-1"	13'-5"	12'-10"	12'-4"	11'-10"	11'-4"	10'-11"	10'-7"	10'-2"	9'-10"	9'-7"	20'-0"	19'-0"	18'-2"	17'-4"	16'-8"	16'-0"	15'-5"	14'-11"	14'-5"	13'-11"	13'-2"	12'-9"	12'-5"	24'-3"	23'-5"	22'-8"	22'-2"	21'-8"	21'-2"	20'-8"	20'-3"	19'-11"	19'-6"	19'-2"	18'-11"	18'-7"	18'-4"

120 MPH EXPOSURE B																																																				
30	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	17'-9"	16'-9"	15'-10"	15'-0"	14'-4"	13'-8"	13'-1"	12'-7"	12'-1"	11'-8"	11'-3"	10'-11"	10'-7"	20'-8"	20'-0"	19'-1"	18'-3"	17'-7"	16'-11"	16'-3"	15'-9"	15'-3"	14'-9"	14'-4"	13'-11"	13'-6"	25'-0"	24'-3"	23'-6"	22'-11"	22'-4"	21'-10"	21'-5"	20'-11"	20'-7"	20'-2"	19'-10"	19'-6"	19'-3"

120 MPH EXPOSURE C or 140 MPH EXPOSURE B																																																			
30	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	16'-5"	15'-5"	14'-7"	13'-10"	13'-2"	12'-7"	12'-1"	11'-4"	11'-0"	10'-8"	10'-4"	10'-0"	9'-8"	19'-8"	18'-9"	17'-10"	17'-1"	16'-4"	15'-9"	15'-2"	14'-8"	14'-2"	13'-8"	13'-3"	12'-11"	12'-6"	24'-3"	23'-6"	22'-11"	22'-4"	21'-10"	21'-5"	20'-11"	20'-7"	20'-2"	19'-10"	19'-6"	19'-3"



SOLID COVER 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS IN 115 MPH WIND AREAS

TABLE 5.8

GROUND SNOW LOAD (PSF)	TRIP WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	12 Gauge x3"x8" Steel C (Detail T)					Double 16 Ga 3"x8" Steel C (Detail T and AY)					Double 12 Ga 3"x8" Steel C (Detail T and AY)					
				Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			
				MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH
				8'	12'	15'	CONSTRAINED FOOTER												
				"d"	"d"	"d"													
				(in)	(in)	(in)													
				(in)	(in)	(in)													

TABLE 5.8

GROUND SNOW LOAD (PSF)	TRIP WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	12 Gauge x3"x8" Steel C (Detail T)					Double 16 Ga 3"x8" Steel C (Detail T and AY)					Double 12 Ga 3"x8" Steel C (Detail T and AY)					
				Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			
				MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH
				8'	12'	15'	CONSTRAINED FOOTER												
				"d"	"d"	"d"													
				(in)	(in)	(in)													
				(in)	(in)	(in)													

TABLE 5.8

GROUND SNOW LOAD (PSF)	TRIP WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	12 Gauge x3"x8" Steel C (Detail T)					Double 16 Ga 3"x8" Steel C (Detail T and AY)					Double 12 Ga 3"x8" Steel C (Detail T and AY)					
				Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			
				MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH
				8'	12'	15'	CONSTRAINED FOOTER												
				"d"	"d"	"d"													
				(in)	(in)	(in)													
				(in)	(in)	(in)													

TABLE 5.8

GROUND SNOW LOAD (PSF)	TRIP WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	12 Gauge x3"x8" Steel C (Detail T)					Double 16 Ga 3"x8" Steel C (Detail T and AY)					Double 12 Ga 3"x8" Steel C (Detail T and AY)					
				Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			
				MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH
				8'	12'	15'	CONSTRAINED FOOTER												
				"d"	"d"	"d"													
				(in)	(in)	(in)													
				(in)	(in)	(in)													

TABLE 5.8

GROUND SNOW LOAD (PSF)	TRIP WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	12 Gauge x3"x8" Steel C (Detail T)					Double 16 Ga 3"x8" Steel C (Detail T and AY)					Double 12 Ga 3"x8" Steel C (Detail T and AY)					
				Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			
				MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH	MAX POST	MIN POST	FOOTER	MAX POST LENGTH
				8'	12'	15'	CONSTRAINED FOOTER												
				"d"	"d"	"d"													
				(in)	(in)	(in)													
				(in)	(in)	(in)													

TABLE 5.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES

OVER-HANG (FT)	PROJECTION OF SINGLE SPAN STRUCTURES (FT)																					
	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'					
1'	n/a	n/a	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'					
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'					
3'	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'						
4'	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'						

TABLE 5.3 Post Requirements for Attached Single Span Structures

Post Description	Max Hgt	POST Code	Detail
Twin 0.060"x1.5"x1.5" Scroll	9'	A	AC
0.042"x3"x8" Aluminum Post	10'	B	N30
0.024"x3"x3" Post with Sideplate	11'	B	N16, BK
Clover 0.030"x3"x3" Alum	11'	C	N11, AH
Clover 0.040"x3"x3" Alum	11'	D	N11, AH
Colonial 0.062" Extruded	12'	E	AE
0.041"x3"x3" Steel Clover	11'	F	N11, AH
0.041"x3"x3" Steel Clover	8'	G	N11, AH
3/16"x3"x3" Steel Square	15'	H	N17, AG
3/16"x3"x3" Steel Square	12'	I	N17, AG
3/16"x4"x4" Steel Square	15'	J	N17, AG
3/16"x5"x5" Steel Square	15'	K	N17, AG

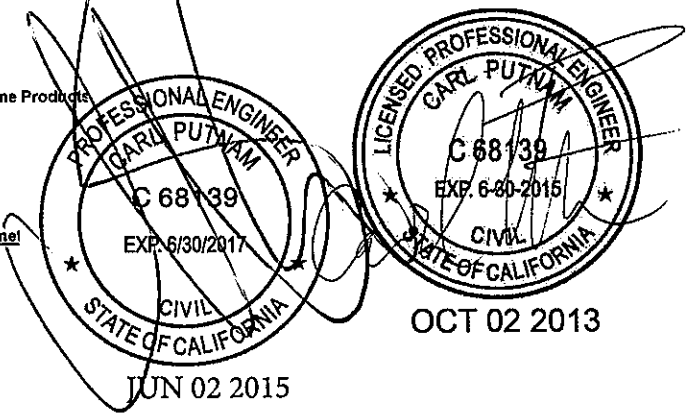
TABLE 5.4 Post Requirements for Freestanding Structures or Multispan Attached Structures

Post Description	Maximum Footing	Max Height	POST Code	Detail #
0.041"x3"x3" Steel Clover	d= 20"	9'	B	N11, AH
0.041"x3"x3" Steel Clover	d= 21"	8'	B	N11, AH
3/16"x3"x3" Steel Square	d= 29"	14'	E	N17, AG
3/16"x3"x3" Steel Square	d= 32"	8'	F	N17, AG
3/16"x4"x4" Steel Square	d= 35"	14'	F	N17, AG
3/16"x4"x4" Steel Square	d= 38"	9'	F	N17, AG
3/16"x5"x5" Steel Square	d= 41"	15'	G	N17, AG
3/16"x6"x6" Steel Square	d= 46"	15'	I	N17, AG

- GENERAL INSTRUCTIONS FOR THESE TABLES**
- CHOOSE FREESTANDING OR ATTACHED STRUCTURE
 - CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
 - DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE (PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS USE 20PSF MIN)
 - CHOOSE A PANEL FROM SECTION 4.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
 - DETERMINE TRIBUTARY WIDTH FROM TABLE 5.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
 - CHOOSE A HEADER FROM TABLE 5.8 THAT HAS ADEQUATE POST SPACING.
 - USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 5.8
 - FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 5.8 AND 5.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 5.4
 - FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
 - USE THE APPROPRIATE DETAILS (N1-N35 or A-BM)
 - FOR PATIO SLABS FOLLOW 1-6 FROM ABOVE THEN SLAB 7. DETERMINE MAXIMUM POST SPACING ON SLAB FROM TABLE 5.8 SLAB 8. USE THE SMALLER OF THE POST SPACING ON SLAB OR HEADER POST SPACING SLAB 9. FOLLOW 9-10 FROM ABOVE
 - FOR TWO POST STRUCTURES USE TABLE 7.1 ON SHEET MISC3 FOR SLAB REQUIREMENTS INSTEAD OF THESE TABLES

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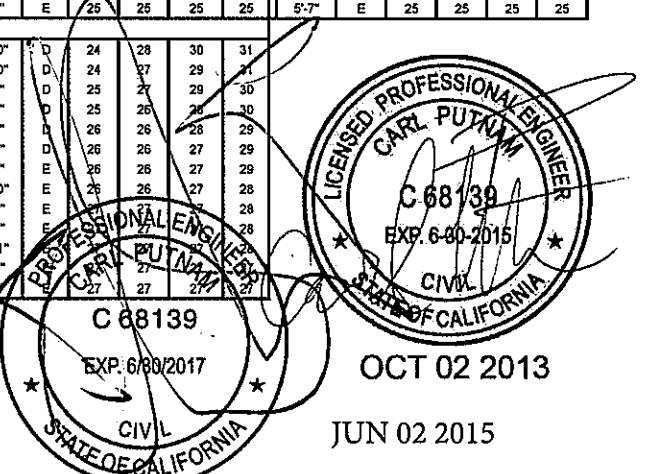
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SOLID COVER 6.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREAS

TABLE 6.1													TABLE 6.1													TABLE 6.1																																																																																																	
0.042"x3"x8" Box Beam (Detail N30)													Double 0.042"x3"x8" Beam (Detail N25)													Double 0.040"x2"x6.625" Beam (Detail N25)																																																																																																	
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH																																																																																																	
					MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"				MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE				FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"				MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"																																																																																												
																																8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'																																																																																				
130 MPH EXPOSURE B													130 MPH EXPOSURE B													130 MPH EXPOSURE B																																																																																																	
10 LIVE LOAD ONLY	3	22'-8"	A	10'-1"	A	21	25	27	28	14'-11"	B	24	27	29	31	13'-4"	B	23	27	28	30	12'-3"	B	23	26	28	29	11'-5"	B	24	26	27	29	10'-9"	B	24	26	27	29	10'-2"	B	25	26	27	28	9'-7"	C	25	25	26	28	9'-2"	C	25	25	26	28	8'-9"	D	26	26	26	27	8'-5"	D	26	26	26	27	8'-1"	D	26	26	26	27	7'-9"	D	26	26	26	27	7'-6"	D	27	27	27	27	7'-3"	D	27	27	27	27	7'-0"	D	28	28	28	28	6'-10"	D	27	27	27	27	6'-6"	E	28	28	28	28	6'-2"	E	29	29	29	29						
130 MPH EXPOSURE C or 150 MPH EXPOSURE B													130 MPH EXPOSURE C or 150 MPH EXPOSURE B													130 MPH EXPOSURE C or 150 MPH EXPOSURE B																																																																																																	
10 LIVE LOAD ONLY	3.5	19'-5"	A	8'-2"	A	22	26	28	28	13'-4"	B	25	29	31	33	12'-0"	B	25	28	30	32	11'-1"	B	25	28	30	31	10'-3"	B	26	28	29	31	9'-7"	C	26	27	29	30	9'-1"	C	27	27	28	30	8'-7"	D	27	27	28	30	8'-2"	D	27	27	28	30	7'-10"	D	28	28	28	29	7'-6"	D	28	28	28	29	7'-2"	D	28	28	28	29	6'-11"	D	28	28	28	28	6'-8"	E	29	29	29	29	6'-6"	E	29	29	29	29	6'-5"	D	29	29	29	29	6'-2"	D	29	29	29	29	5'-8"	E	30	30	30	30	5'-4"	E	30	30	30	30	5'-1"	E	30	30	30	30
140 MPH EXPOSURE B													140 MPH EXPOSURE B													140 MPH EXPOSURE B																																																																																																	
10 LIVE LOAD ONLY	3	22'-8"	A	9'-8"	A	21	25	28	28	14'-4"	B	24	28	30	31	12'-10"	B	24	28	29	31	11'-10"	B	24	27	29	30	11'-0"	B	25	27	28	30	10'-4"	B	25	26	28	29	9'-9"	C	26	26	28	29	9'-3"	C	26	26	27	28	8'-10"	D	26	26	27	28	7'-8"	D	27	27	28	29	7'-5"	D	27	27	27	28	7'-2"	D	28	28	28	28	6'-11"	D	28	28	28	28	6'-9"	D	28	28	28	28	6'-6"	D	28	28	28	28	6'-2"	D	28	28	28	28	5'-8"	E	29	29	29	29	5'-4"	E	29	29	29	29	5'-1"	E	30	30	30	30						

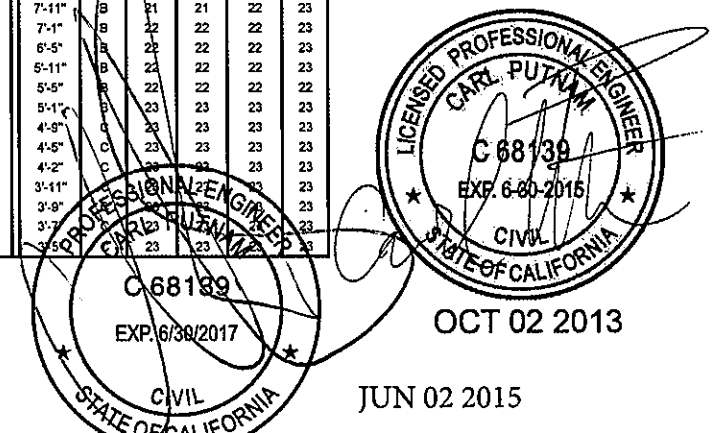
TABLE 6.1													TABLE 6.1													TABLE 6.1																																																																									
0.042"x3"x8" Box Beam (Detail N30)													Double 0.042"x3"x8" Beam (Detail N25)													Double 0.040"x2"x6.625" Beam (Detail N25)																																																																									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d"	MAX POST LENGTH																																																																									
					MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"				MIN POST TYPE	FOOTER SIZE "d"	MIN POST TYPE				FOOTER SIZE "d"	MIN POST TYPE	FOOTER SIZE "d"				MIN POST TYPE	FOOTER SIZE "d"																																																																								
																												8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'	8' 10' 12'																																																																
or 115 MPH EXPOSURE C													or 115 MPH EXPOSURE C													or 115 MPH EXPOSURE C																																																																									
25	3	11'-4"	A	8'-1"	A	20	25	27	28	12'-2"	C	23	27	29	30	11'-0"	B	22	27	28	30	10'-1"	C	22	26	28	29	9'-4"	C	23	26	27	29	8'-8"	D	24	25	27	28	8'-3"	D	24	25	27	28	7'-10"	D	24	25	26	28	7'-5"	D	25	25	26	27	7'-1"	D	25	25	26	27	6'-8"	D	25	25	26	27	6'-6"	D	26	26	26	27	6'-5"	E	27	27	27	27	6'-2"	E	27	27	27	27	5'-9"	E	26	26	26	26	5'-7"	E	26	26	26	26
140 MPH EXPOSURE C													140 MPH EXPOSURE C													140 MPH EXPOSURE C																																																																									
25	3	11'-4"	A	7'-5"	B	22	27	28	30	11'-3"	D	25	29	31	33	10'-2"	C	24	28	30	32	9'-4"	D	25	28	30	31	8'-8"	D	26	28	29	31	8'-1"	D	26	27	29	30	7'-7"	D	26	27	28	30	7'-2"	D	27	27	28	30	6'-10"	D	27	27	28	29	6'-6"	D	27	27	28	29	6'-2"	E	28	28	28	29	5'-11"	E	28	28	28	28	5'-8"	E	28	28	28	28	5'-6"	E	28	28	28	28	5'-3"	E	28	28	28	28	5'-1"	E	29	29	29	29
130 MPH EXPOSURE B													130 MPH EXPOSURE B													130 MPH EXPOSURE B																																																																									
30	3	9'-6"	A	7'-10"	B	19	24	25	27	11'-10"	C	22	26	28	29	10'-8"	B	21	25	27	28	9'-10"	C	22	25	27	28	9'-1"	D	22	25	26	28	8'-6"	D	22	24	26	27	8'-0"	D	23	24	25	27	7'-7"	D	23	24	25	27	7'-2"	D	23	23	25	26	6'-10"	D	24	24	25	26	6'-7"	D	24	24	24	26	6'-3"	D	24	24	24	26	6'-0"	E	24	24	24	25	5'-10"	E	24	24	24	25	5'-7"	E	25	25	25	25						
130 MPH EXPOSURE C													130 MPH EXPOSURE C													130 MPH EXPOSURE C																																																																									
30	3	9'-6"	A	7'-2"	B	21	25	27	29	11'-0"	D	24	28	30	31	10'-0"	D	24	27	29	31	9'-3"	D	25	27	29	30	8'-8"	D	25	26	28	30	8'-1"	D	26	26	28	29	7'-7"	D	26	26	27	29	7'-2"	E	26	26	27	29	6'-10"	E	26	26	27	29	6'-10"	E	26	26	27	29	6'-6"	E	26	26	27	29	6'-2"	E	26	26	27	29	5'-8"	E	26	26	27	29	5'-4"	E	26	26	27	29	5'-1"	E	27	27	27	29						



SOLID COVER 6.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREAS

TABLE 6.5 5.5" Extruded Fascia (Detail L)										California Extruded Fascia (Detail G)										0.041"x3"x3" Steel Cloverleaf (Detail W)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure		Freestanding or Multispan Units				MAX POST SPACING (FT)	Attached Structure		Freestanding or Multispan Units				MAX POST SPACING (FT)	Attached Structure		Freestanding or Multispan Units									
				MIN POST TYPE	FOOTER SIZE (in)	8' CONstrained	10' "d"	12' "d"	MIN POST TYPE		FOOTER SIZE (in)	8' CONstrained	10' "d"	12' "d"	MIN POST TYPE	FOOTER SIZE (in)		8' CONstrained	10' "d"	12' "d"									
130 MPH EXPOSURE B																													
10 LIVE LOAD ONLY	3	22'-8"	A	11'-6"	A	22	22	23	24	11'-4"	A	21	21	21	23	24	9'-10"	A	21	21	21	23	24						

TABLE 6.5 5.5" Extruded Fascia (Detail L)										California Extruded Fascia (Detail G)										0.041"x3"x3" Steel Cloverleaf (Detail W)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure		Freestanding or Multispan Units				MAX POST SPACING (FT)	Attached Structure		Freestanding or Multispan Units				MAX POST SPACING (FT)	Attached Structure		Freestanding or Multispan Units									
				MIN POST TYPE	FOOTER SIZE (in)	8' CONstrained	10' "d"	12' "d"	MIN POST TYPE		FOOTER SIZE (in)	8' CONstrained	10' "d"	12' "d"	MIN POST TYPE	FOOTER SIZE (in)		8' CONstrained	10' "d"	12' "d"									
140 MPH EXPOSURE B																													
25	3	11'-4"	A	9'-1"	B	21	21	22	24	8'-11"	B	21	21	21	23	24	7'-10"	A	20	21	23	24							



SOLID COVER 6.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREAS

GROUND SNOW LOAD (PSF)		TABLE 6.6 Classic Extruded Fascia (Detail H)										Alaskan Extruded Fascia (Detail K)										Double Steel Cloverleaf (Detail AA)									
		Attached Structure					Freestanding or Multispan Units					Attached Structure					Freestanding or Multispan Units					Attached Structure					Freestanding or Multispan Units				
		TRIB WIDTH	POST SPACING	POST REQ'D FOR SLAB	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER			

GROUND SNOW LOAD (PSF)		TABLE 6.6 Classic Extruded Fascia (Detail H)										Alaskan Extruded Fascia (Detail K)										Double Steel Cloverleaf (Detail AA)									
		Attached Structure					Freestanding or Multispan Units					Attached Structure					Freestanding or Multispan Units					Attached Structure					Freestanding or Multispan Units				
		TRIB WIDTH	POST SPACING	POST REQ'D FOR SLAB	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER	MAX POST SPACING	MIN POST	FOOTER SIZE	8' CONstrained	10' FOOTER	12' FOOTER			

10 LIVE LOAD ONLY		140 MPH EXPOSURE C or 160 MPH EXPOSURE B										140 MPH EXPOSURE B																									
		3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11				
3	22'-8"	A	13'-5"	C	27	27	27	28	11'-10"	B	26	26	26	27	11'-9"	B	26	26	26	27	28	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11

30 LIVE LOAD ONLY		140 MPH EXPOSURE B										140 MPH EXPOSURE C or 160 MPH EXPOSURE B																								
		3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11							
3	9'-6"	A	12'-10"	D	24	24	24	26	10'-6"	C	22	22	23	24	10'-11"	C	22	23	24	26	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11

20 LIVE LOAD ONLY		140 MPH EXPOSURE B										140 MPH EXPOSURE C or 160 MPH EXPOSURE B																									
		3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5								
3	11'-10"	A	13'-6"	D	24	24	24	26	11'-5"	B	23	23	23	25	11'-6"	B	23	23	23	25	26	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11

30 LIVE LOAD ONLY		140 MPH EXPOSURE C or 160 MPH EXPOSURE B										140 MPH EXPOSURE B																									
		3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11								
3	9'-6"	A	12'-4"	D	26	26	26	28	10'-5"	D	25	25	25	26	10'-5"	D	25	25	25	26	27	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11

OVER-HANG (FT)	PROJECTION OF SINGLE SPAN STRUCTURES (FT)																
	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'
1'	n/a	n/a	n/a	n/a	n/a	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'
2'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.5'	10'	10.5'	11'	11.5'	12'	12.5'	
4'	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	12.5'	13'

20 LIVE LOAD ONLY		140 MPH EXPOSURE C or 160 MPH EXPOSURE B										140 MPH EXPOSURE B																									
		3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5								
3	11'-10"	A	12'-8"	D	26	26	26	28	10'-2"	C	25	25	25	26	10'-9"	C	25	25	25	26	28	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	11

Post Description	Max Hgt	POST Code	Detail
Twin 0.060"x1.5"x1.5" Scroll	9'	A	AC
0.042"x3"x8" Aluminum Post	10'	B	N30
0.024"x3"x8" Post with Sideplate	11'	B	N16, BK
Clover 0.030"x3"x3" Alum	11'	C	N11, AH
Clover 0.040"x3"x3" Alum	11'	D	N11, AH
Colonial 0.062" Extruded	12'	E	AE
0.041"x3"x3" Steel Clover	11'	F	N11, AH
0.041"x3"x3" Steel Clover	8'	G	N11, AH
3/16"x3"x3" Steel Square	15'	H	N17, AG
3/16"x3"x3" Steel Square	12'	I	N17, AG
3/16"x4"x4" Steel Square	15'	J	N17, AG
3/16"x5"x5" Steel Square	15'	K	N17, AG

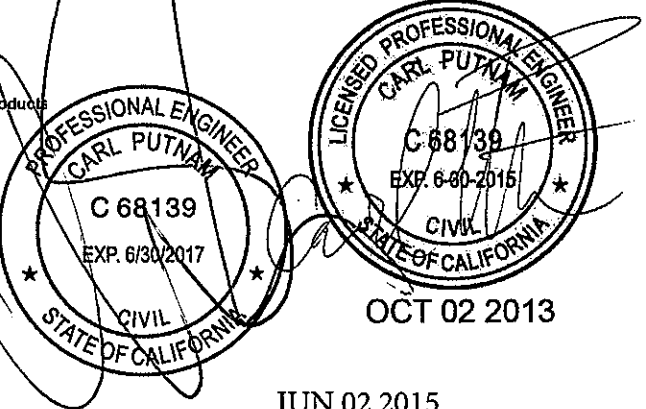
Post Description	Maximum Footing	Max Height	POST Code	Detail #
0.041"x3"x3" Steel Clover	d= 20"	9'	B	N11, AH
0.041"x3"x3" Steel Clover	d= 21"	8'	B	N11, AH
3/16"x3"x3" Steel Square	d= 29"	14'	E	N17, AG
3/16"x3"x3" Steel Square	d= 32"	8'	F	N17, AG
3/16"x4"x4" Steel Square	d= 35"	14'	F	N17, AG
3/16"x4"x4" Steel Square	d= 38"	9'	F	N17, AG
3/16"x5"x5" Steel Square	d= 41"	15'	G	N17, AG
3/16"x6"x6" Steel Square	d= 46"	15'	I	N17, AG

- GENERAL INSTRUCTIONS FOR THESE TABLES
- CHOOSE FREESTANDING OR ATTACHED STRUCTURE
 - CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
 - DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE (PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS USE 20PSF MIN)
 - CHOOSE A PANEL FROM SECTION 4.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
 - DETERMINE TRIBUTARY WIDTH FROM TABLE 6.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
 - CHOOSE A HEADER FROM THAT HAS ADEQUATE POST SPACING.
 - USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 6.6

- FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 6.6 AND 6.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 6.4
 - FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
 - USE THE APPROPRIATE DETAILS (N1-N35 or A-BM)
- FOR PATIO SLABS FOLLOW 1-6 FROM ABOVE THEN
 SLAB 7. DETERMINE MAXIMUM POST SPACING ON SLAB FROM
 SLAB 8. USE THE SMALLER OF THE POST SPACING ON SLAB OR HEADER POST SPACING
 SLAB 9. FOLLOW 9-10 FROM ABOVE
 SLAB 10. FOR TWO POST STRUCTURES USE TABLE 7.1 ON SHEET MISC3 FOR SLAB REQUIREMENTS INSTEAD OF THESE TABLES

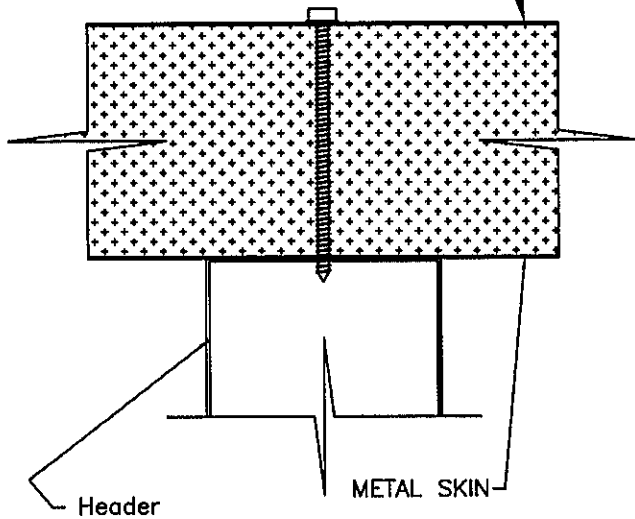
Amerimax Exterior Home Products
 28921 US Hwy 74
 Romoland, CA 92585

Carl Putnam, P. E.
 3441 Ivylink Place
 Lynchburg, VA 24503
 carlputnam@comcast.net

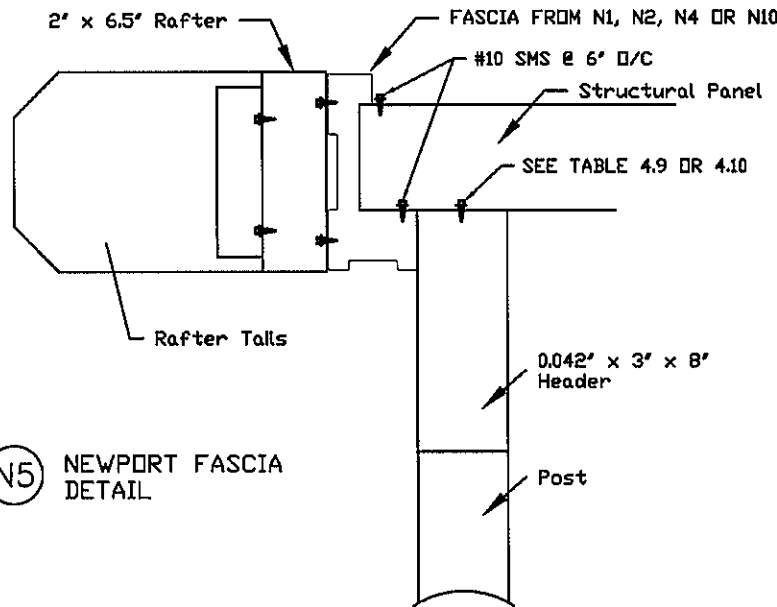
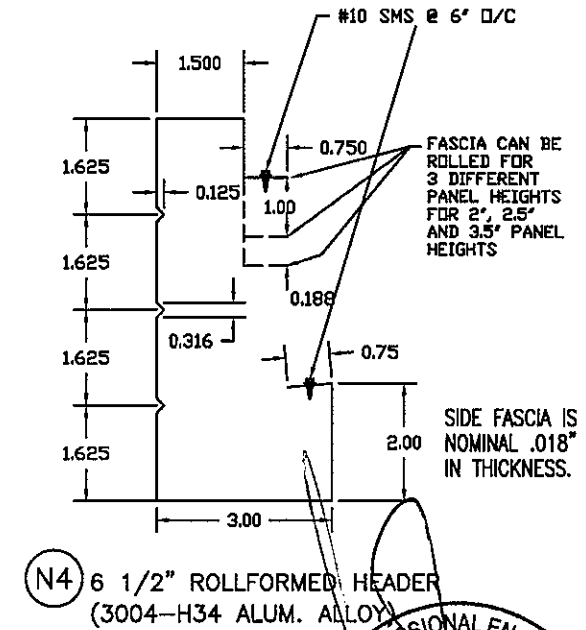
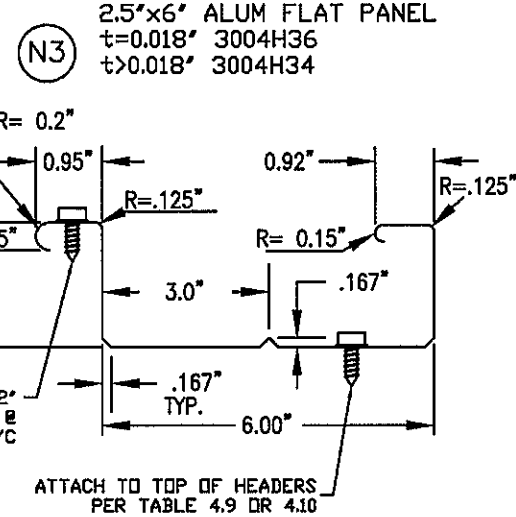
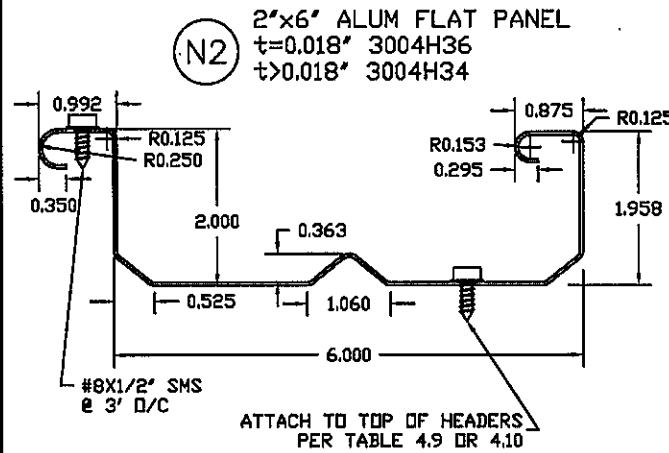


USE OF FOAM CORE SANDWICH PANELS WILL REQUIRE THE USE OF A REGISTERED DESIGN PROFESSIONAL TO COMPLY WITH EXISTING ICC ESR

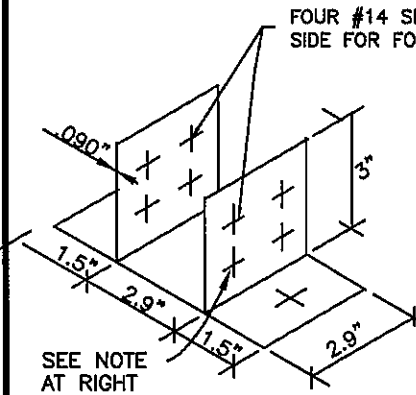
FOAM CORE SANDWICH PANEL W/ CURRENT ICC ESR



(N1) SANDWICH PANEL TO HEADER CONNECTION



(N5) NEWPORT FASCIA DETAIL



(N6) BRACKET FOR CONNECTING POST TO SLAB OR FOOTING (6063-T6 ALUM ALLOY) SINGLE SPAN ATTACHED UNITS ONLY

JUN 02 2015
 PROFESSIONAL ENGINEER
 CARL PUTNAM
 C 68139
 EXP. 6/30/2017
 CIVIL
 STATE OF CALIFORNIA

LICENSED PROFESSIONAL ENGINEER
 CARL PUTNAM
 C 68139
 EXP. 6-30-2015
 CIVIL
 STATE OF CALIFORNIA

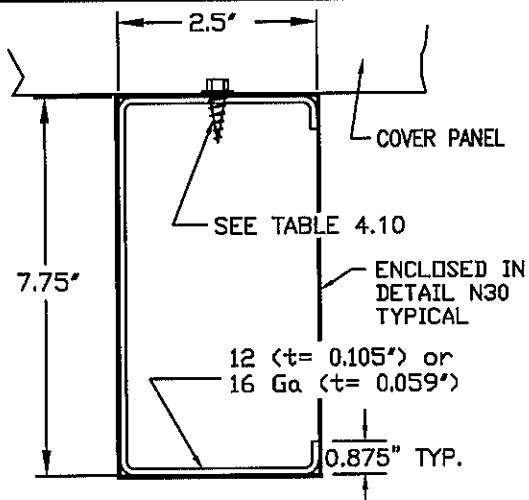
OCT 02 2013

Engineer's Stamp

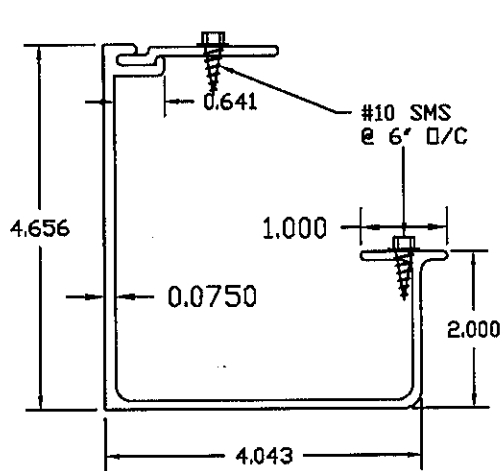
Amerimax 28921 US Hwy 74
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures
DATE:	SHEET: NP01-2012

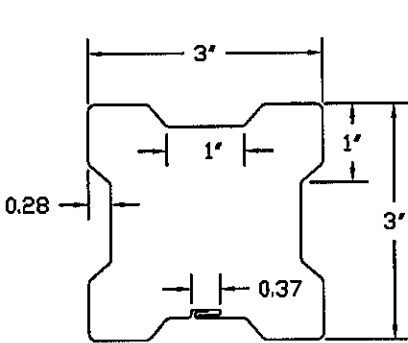
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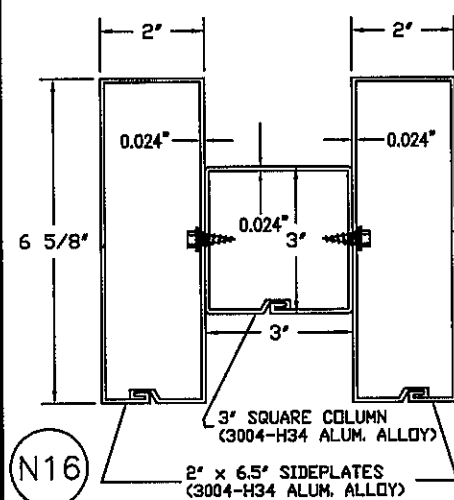
N9 STEEL "C" - CHANNEL HEADER
(STEEL A-653 Fy=50 KSI)



N10 CALIFORNIA FASCIA
(ALUM 6063 T6)



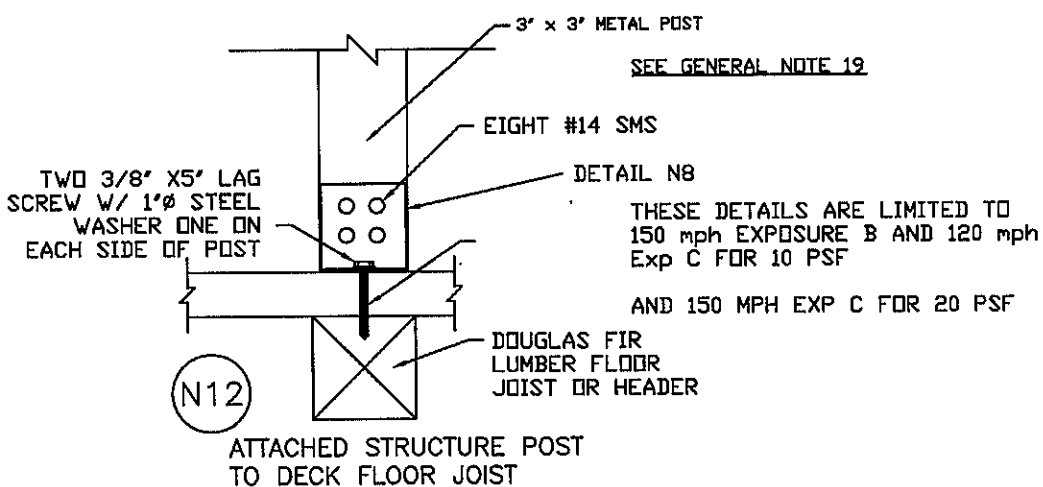
N11 3" ALTERNATE POST
(3105-H25 ALUM. ALLOY OR
A-653 Fy=40 KSI STEEL)



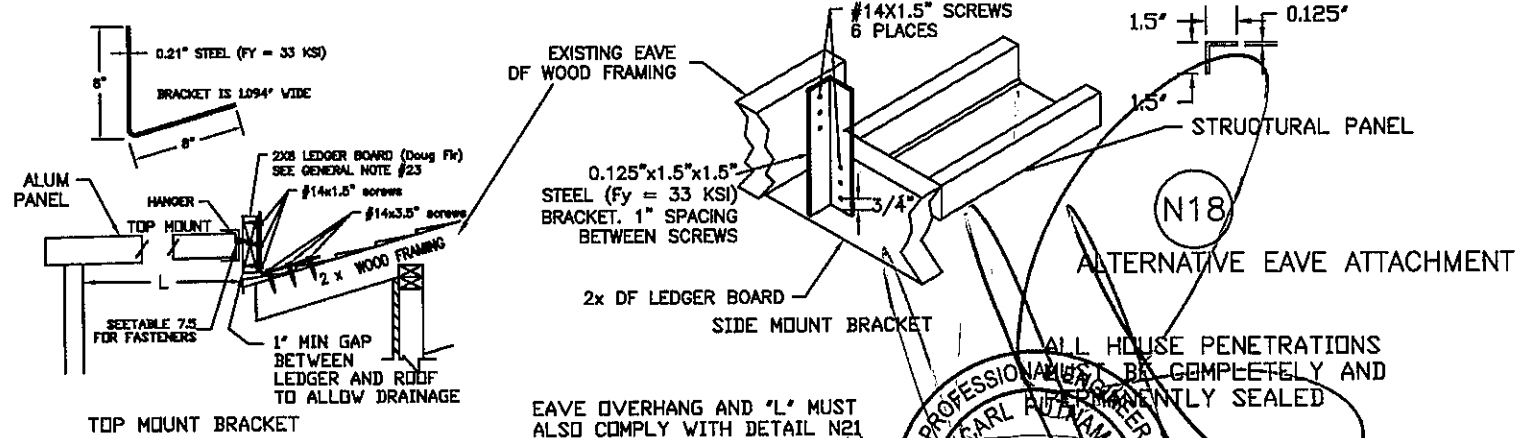
N16 SIDEPLATE CONNECTION DETAIL:

Live Load (psf)	Wind Speed and Exposure	MAX "L" FOR TOP OR SIDE MOUNT	
		16" o/c	24" o/c
10	110 mph Exp B	21'-3"	14'-2"
	115 mph Exp B	19'-7"	13'-1"
	130 mph Exp B	16'-7"	10'-4"
	140 mph Exp B	13'-7"	9'-1"
	110 mph Exp C	15'-7"	10'-4"
20	115 mph Exp C	14'-3"	9'-7"
	130 mph Exp C	11'-4"	7'-7"
	140 mph Exp C	9'-10"	6'-7"

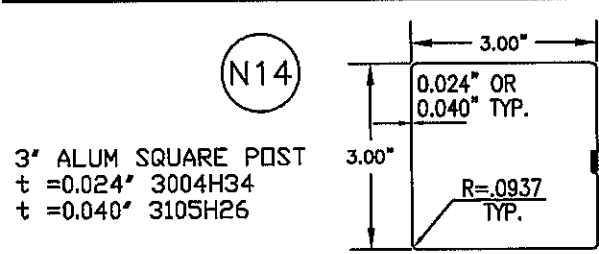
TOP MOUNT BRACKET NOT ALLOWED IN SNOW LOAD AREAS
SEE GENERAL NOTE #9 FOR CORROSION PROTECTION



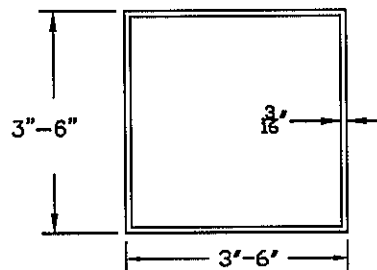
N12 ATTACHED STRUCTURE POST TO DECK FLOOR JOIST



N18 ALTERNATIVE EAVE ATTACHMENT



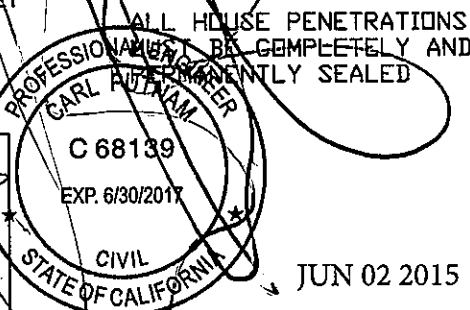
N14 3" ALUM SQUARE POST
t = 0.024" 3004H34
t = 0.040" 3105H26



N17 ASTM A500 GRADE B STEEL POST
SEE GENERAL NOTE #9 FOR CORROSION PROTECTION



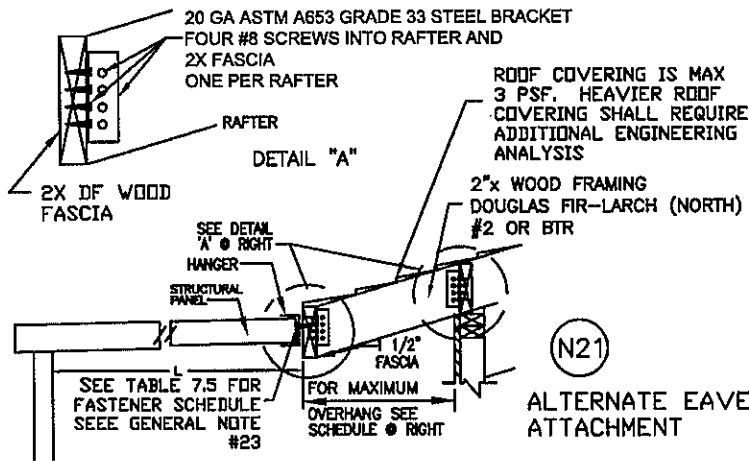
OCT 02 2013
Engineer's Stamp



Amerimax 28921 US Hwy 74
EXTERIOR HOME PRODUCTS Romoland, CA 92585

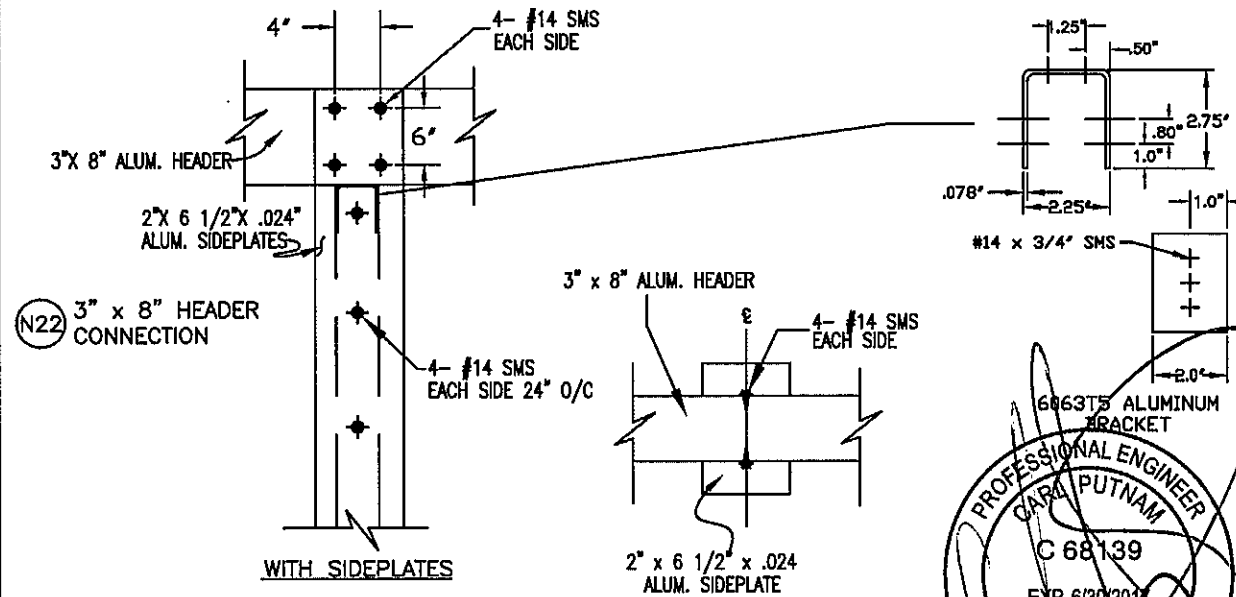
DRAWN BY: BEJ/CP
SCALE: NTS
DATE: N/A
FILE: NP02-2012
SHEET: 2 of 4

NAME: Component Parts & Connection Details for Newport Patio Structures

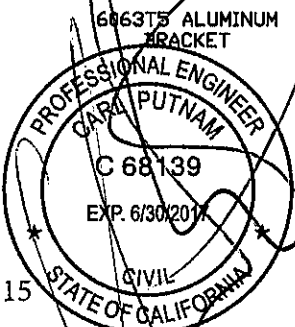


Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L" EAVE OVERHANG				
		8"	12"	18"	24"	30"
10 psf 115 MPH EXP B	2x4 2x6 2x8	18'-0" 18'-0" 18'-0"	18'-0" 18'-0" 18'-0"	12'-0" 18'-0" 18'-0"	7'-1" 18'-0" 18'-0"	3'-8" 17'-1" 18'-0"
10 psf 115 MPH EXP C	2x4 2x6 2x8	17'-0" 17'-0" 17'-0"	17'-0" 17'-0" 17'-0"	12'-0" 17'-0" 17'-0"	7'-1" 17'-0" 17'-0"	3'-8" 17'-0" 17'-0"
10 psf 140 MPH EXP C	2x4 2x6 2x8	16'-0" 16'-0" 16'-0"	16'-0" 16'-0" 16'-0"	12'-0" 16'-0" 16'-0"	7'-1" 16'-0" 16'-0"	3'-8" 16'-0" 16'-0"
20 psf 140 MPH EXP C	2x4 2x6 2x8	16'-0" 16'-0" 16'-0"	10'-3" 16'-0" 16'-0"	5'-10" 16'-0" 16'-0"	3'-4" 16'-0" 16'-0"	1'-8" 8'-4" 16'-0"
25 psf 140 MPH EXP C	2x4 2x6 2x8	16'-0" 16'-0" 16'-0"	11'-3" 16'-0" 16'-0"	6'-4" 16'-0" 16'-0"	3'-8" 12'-10" 16'-0"	1'-8" 8'-1" 16'-0"
30 psf 140 MPH EXP C	2x4 2x6 2x8	15'-0" 15'-0" 15'-0"	9'-2" 15'-0" 15'-0"	5'-1" 15'-0" 15'-0"	2'-8" 10'-4" 15'-0"	1'-0" 7'-1" 14'-8"
40 psf	2x4 2x6 2x8	14'-0" 14'-0" 14'-0"	6'-7" 14'-0" 14'-0"	3'-4" 11'-0" 14'-0"	1'-4" 7'-2" 14'-0"	0'-0" 4'-7" 10'-3"
60 psf	2x4 2x6 2x8	9'-10" 12'-0" 12'-0"	4'-0" 11'-8" 12'-0"	1'-7" 6'-9" 8'-8"	0'-2" 4'-0" 8'-8"	0'-0" 2'-1" 5'-10"

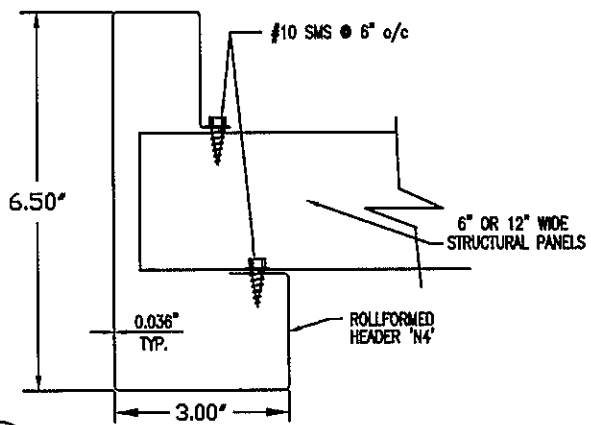
(N21) ALTERNATE EAVE ATTACHMENT



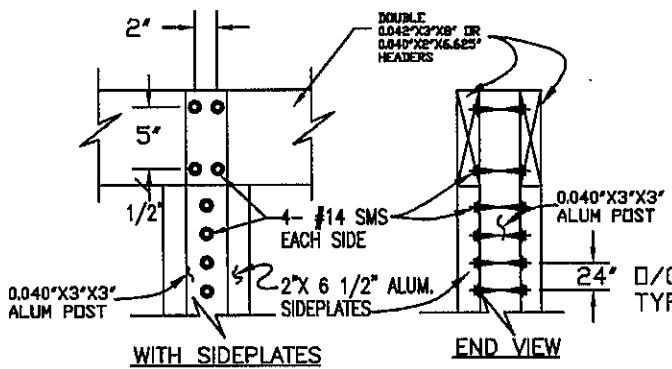
(N22) 3" x 8" HEADER CONNECTION



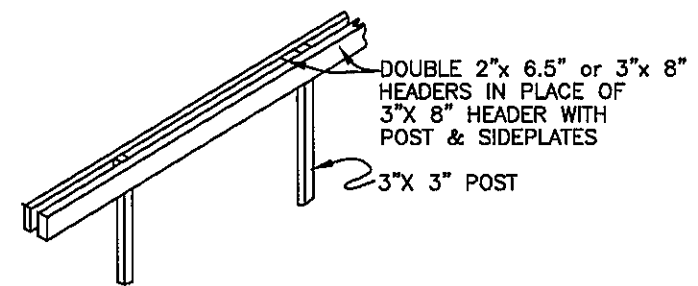
JUN 02 2015



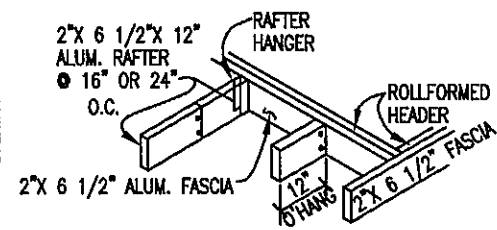
(N23) ROLLFORMED HEADER 'N4' CONN. DETAILS TO STRUCTURAL PANELS



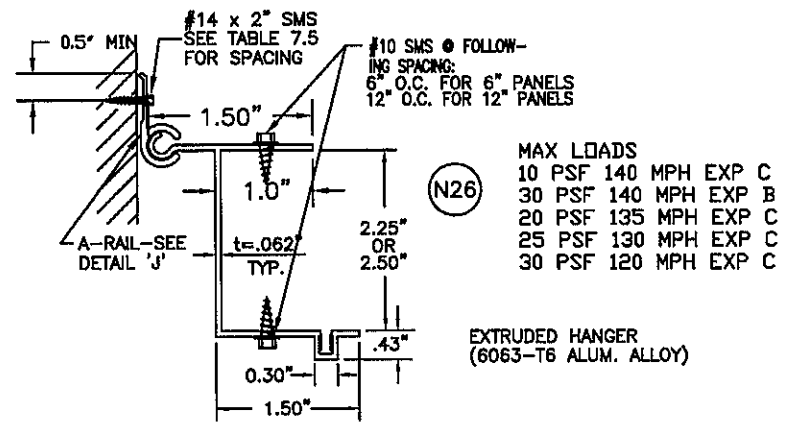
(N24) DOUBLE ALUM HEADER CONNECTION



(N25) DOUBLE 2"x6.625" HEADERS (DETAIL N31) DOUBLE 3"x8" HEADER (DETAIL N30)



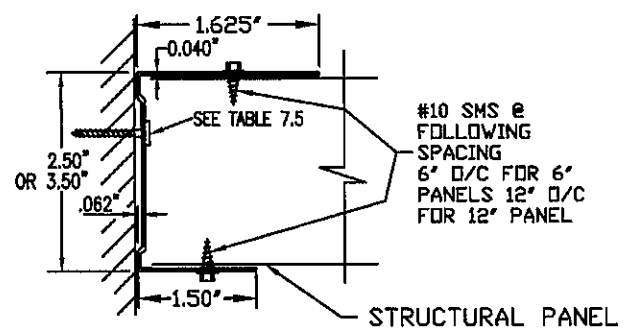
(N28) ALTERNATE-DECORATIVE FASCIA TRIM



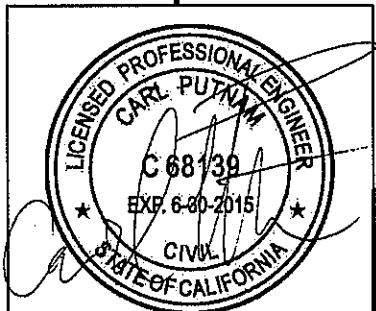
(N26)

MAX LOADS
 10 PSF 140 MPH EXP C
 30 PSF 140 MPH EXP B
 20 PSF 135 MPH EXP C
 25 PSF 130 MPH EXP C
 30 PSF 120 MPH EXP C

EXTRUDED HANGER
 (6063-T6 ALUM. ALLOY)



(N27) ROLLFORMED HANGER (3004-H34 ALUM. ALLOY)

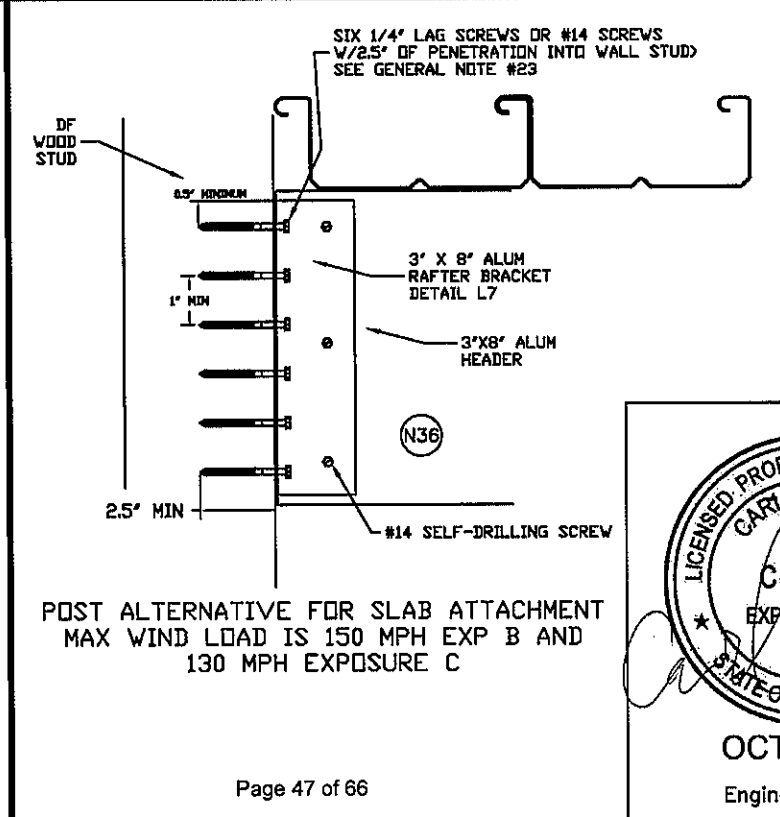
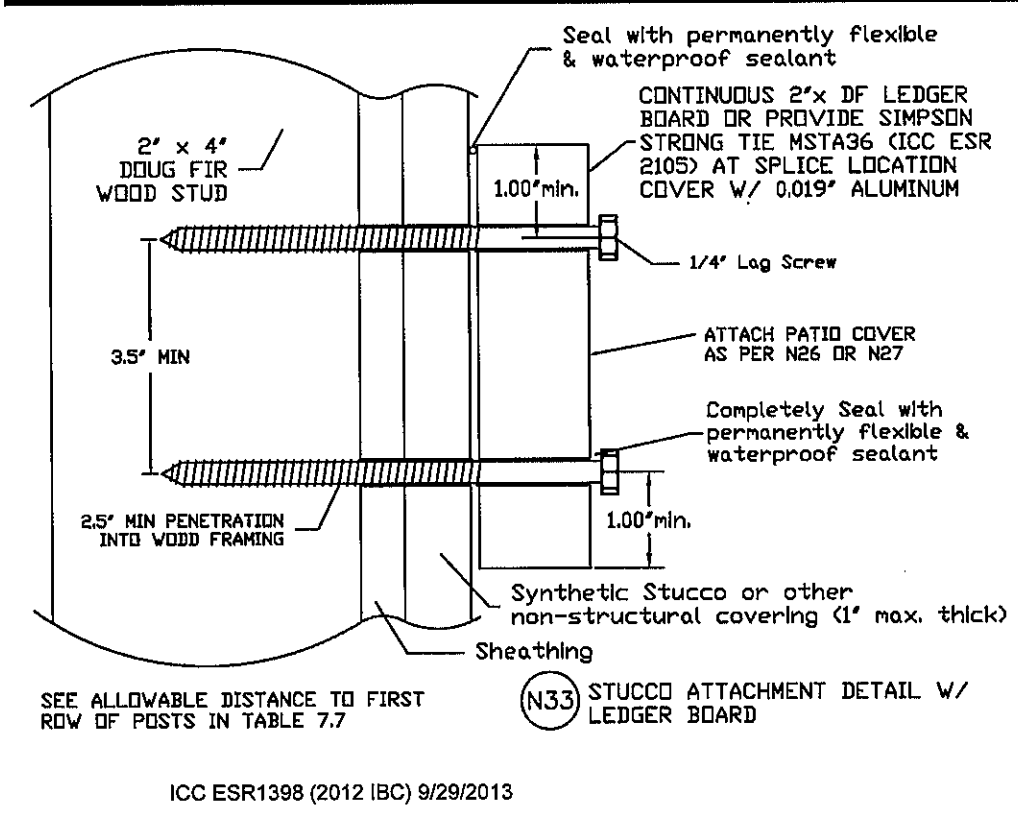
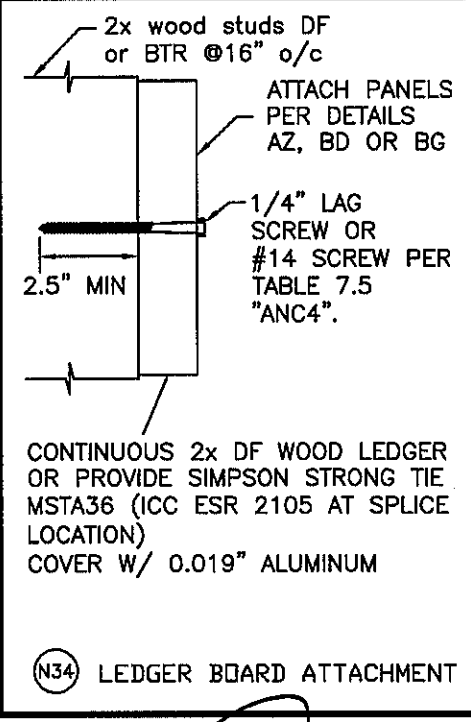
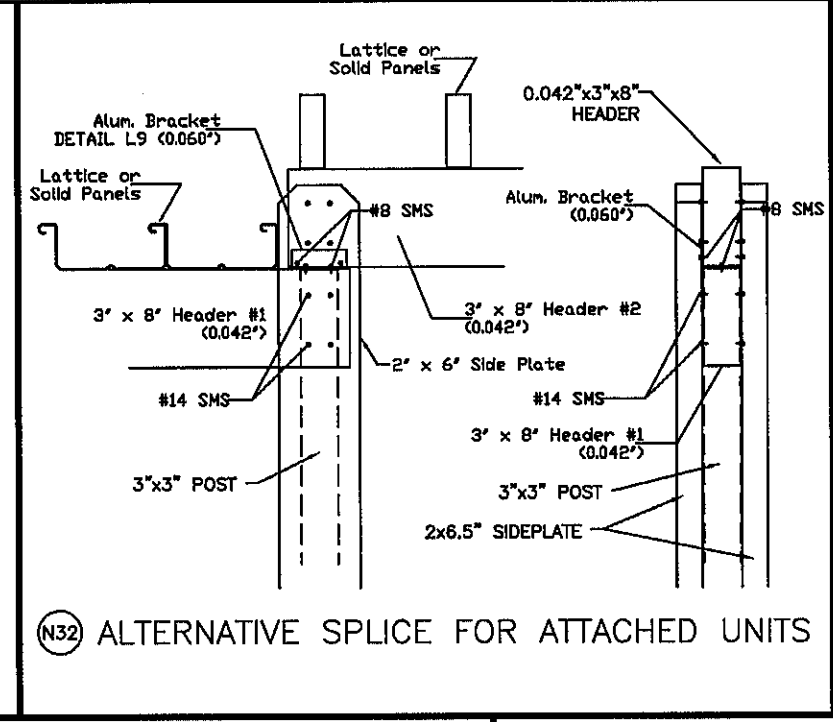
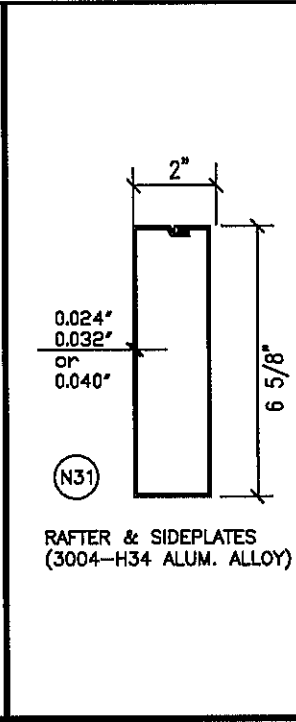
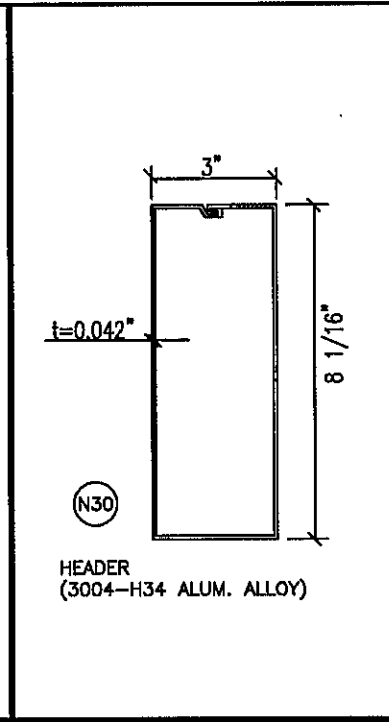
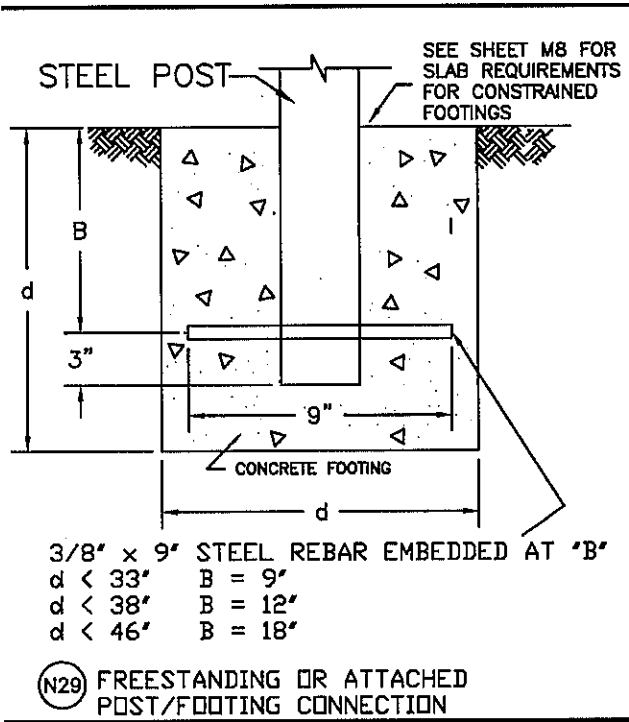


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Amerimax 28921 US Hwy 74
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures
DATE:	FILE: NP03-2012
	SHEET: 3 of 4



JUN 02 2015

PROFESSIONAL ENGINEER
CARL PUTNAM
C 68139
EXP 6/30/2017
CIVIL
STATE OF CALIFORNIA

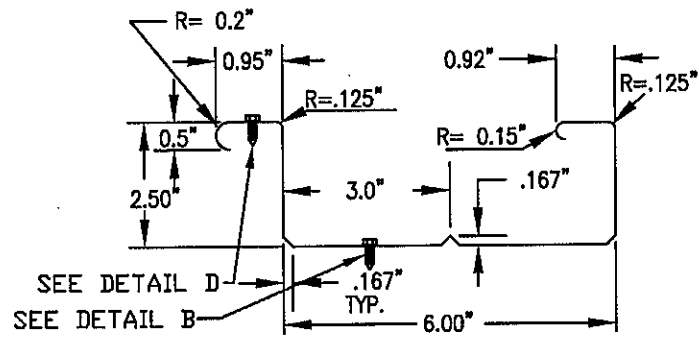
LICENSED PROFESSIONAL ENGINEER
CARL PUTNAM
C 68139
EXP 6-30-2015
CIVIL
STATE OF CALIFORNIA

OCT 02 2013
Engineer's Stamp

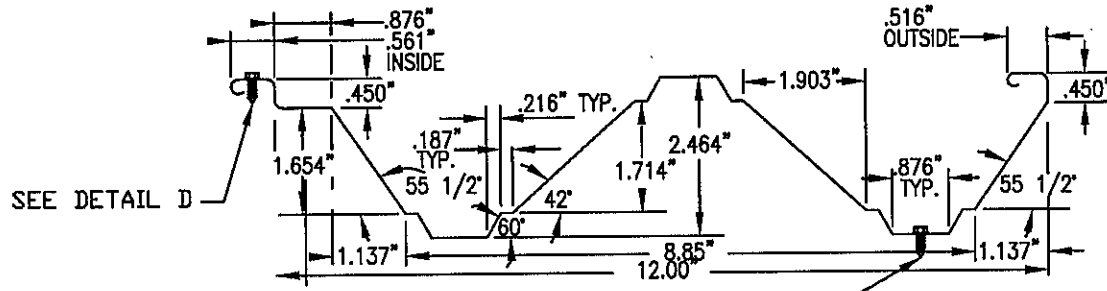
Amerimax 28921 US Hwy 74
EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures
DATE:	SHEET: NP04-2012

4 of 4

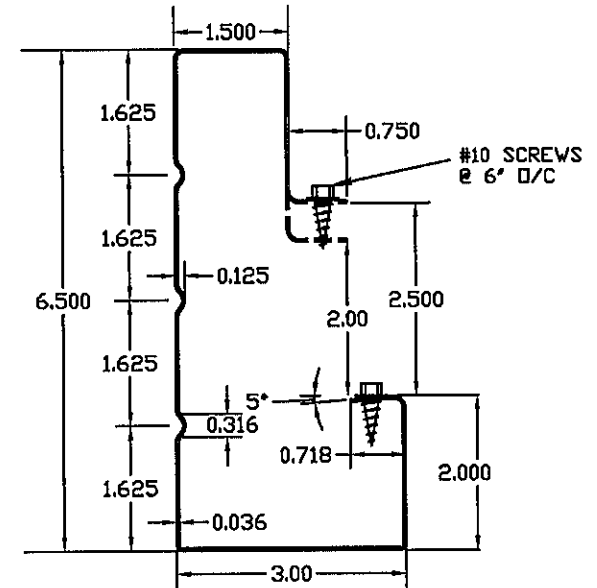


(A) 2.5"x6" SUPER SIX PANEL
 t = 0.018" 3004H36
 t > 0.018" 3004H34

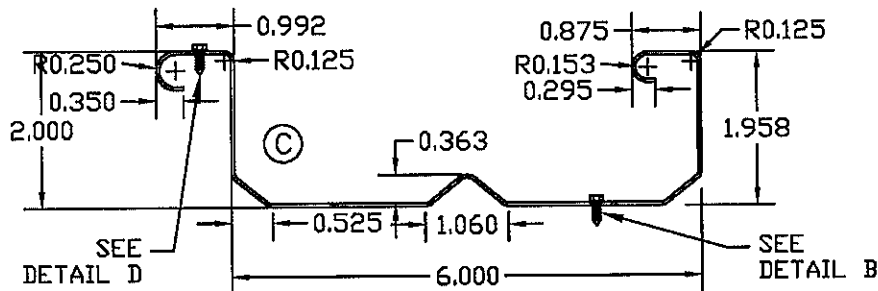


SEE DETAIL D
 ATTACH TO TOP OF HEADER BEAM AS PER TABLES 4.9 OR 4.10
 OR ATTACH PER STRUCTURAL FASCIA DETAILS

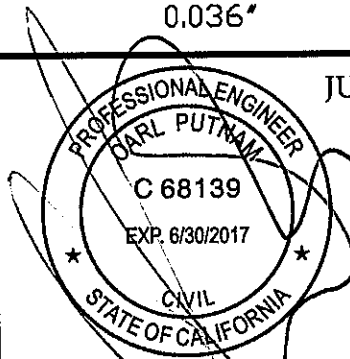
(B) 2.5"x12" MARK X ALUMINUM PANEL
 0.018"-0.032" 3004 H36
 0.036" 3004 H34



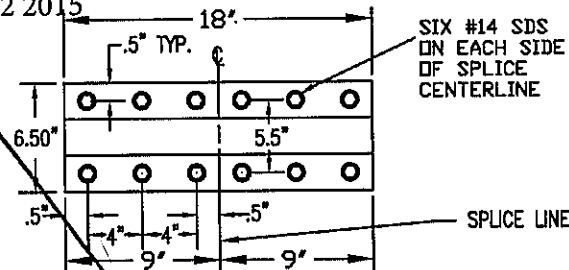
(E) 6 1/2" ROLLFORMED FASCIA 3004H34 ALLOY



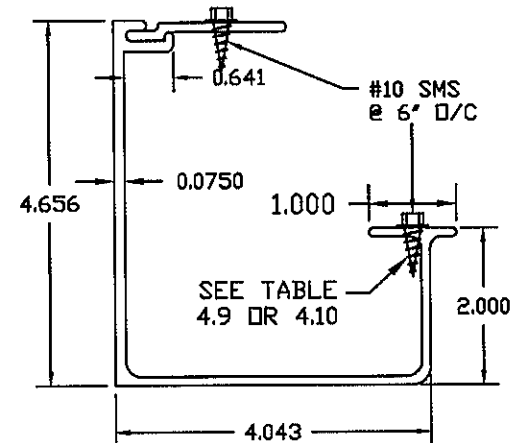
(C) 2"x6" FLAT PANEL
 t = 0.018" 3004H36 ALUMINUM
 t > 0.018" 3004H34 ALUMINUM



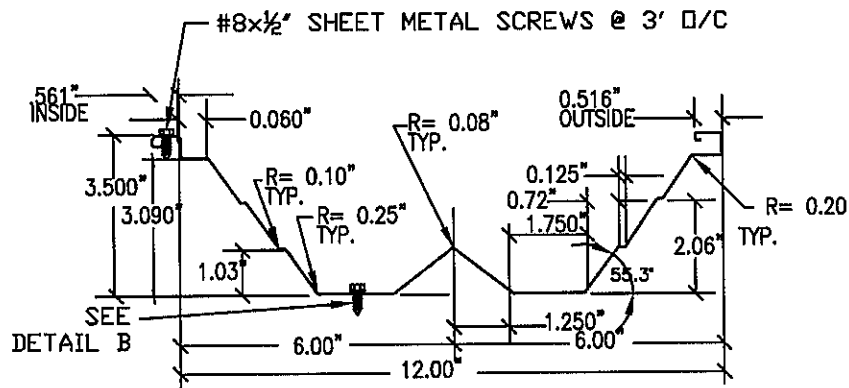
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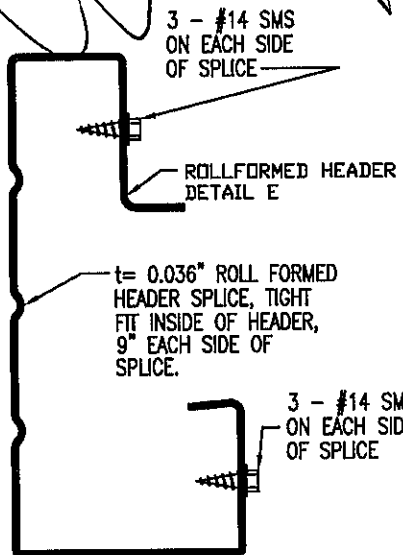
(F) ROLLFORMED HEADER SPLICE
 (3004-H34 ALUM. ALLOY)



(G) CALIFORNIA FASCIA
 (6063-T6 ALUM. ALLOY)



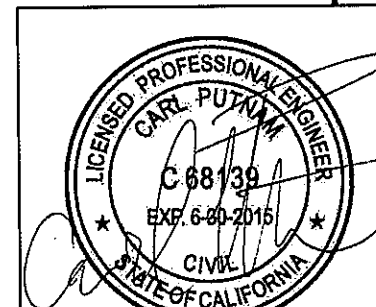
(D) 3.5"x12" "W" PANEL
 t = 0.018" 3004H36 ALUMINUM
 t > 0.018" 3004H34 ALUMINUM



3 - #14 SMS
 ON EACH SIDE
 OF SPLICE

t = 0.036" ROLL FORMED
 HEADER SPLICE, TIGHT
 FIT INSIDE OF HEADER,
 9" EACH SIDE OF
 SPLICE.

3 - #14 SMS
 ON EACH SIDE
 OF SPLICE

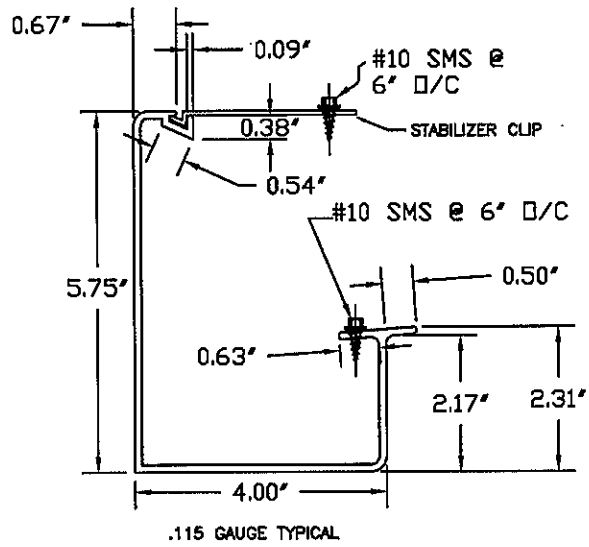


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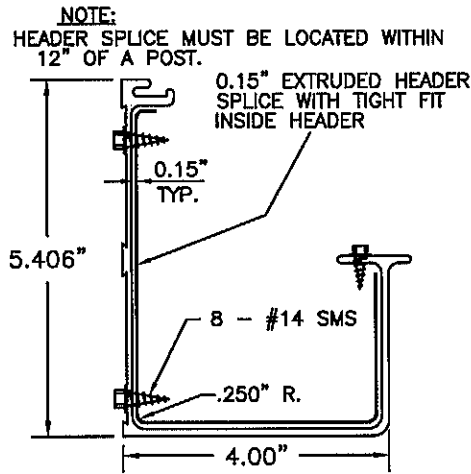
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Amerimax 28921 US Hwy 74
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

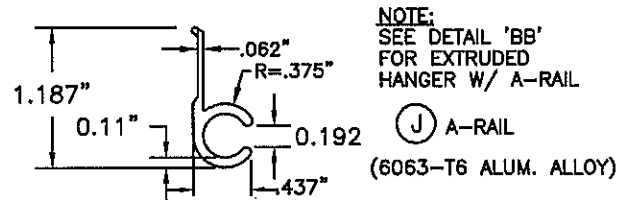
DRAWN BY:	TYPE:
BEJ/CP	
SCALE:	NAME:
NTS	Component Parts & Connection Details
DATE:	FILE:
	CD01-2012
	SHEET:
	1 of 9



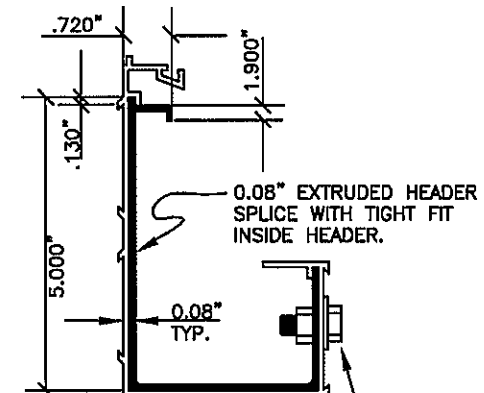
(H) CLASSIC FASCIA
W/ STABILIZER CLIP
(6061-T6 Alum. Alloy)



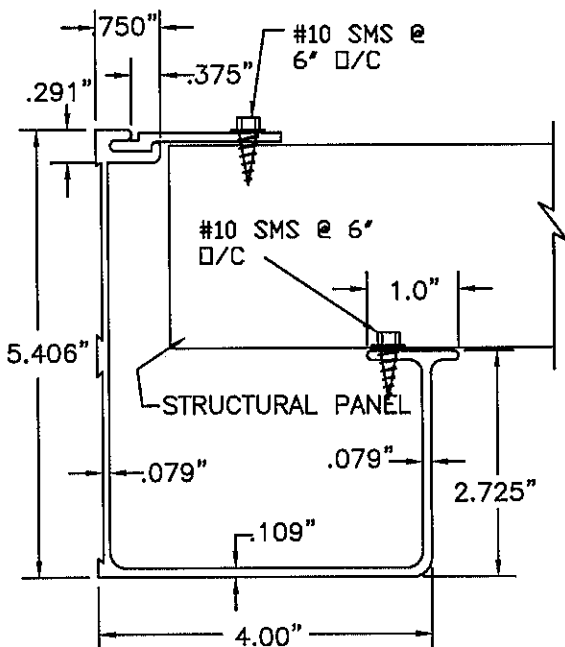
(I) ALASKAN HEADER SPLICE
(6063-T5 ALUM. ALLOY)



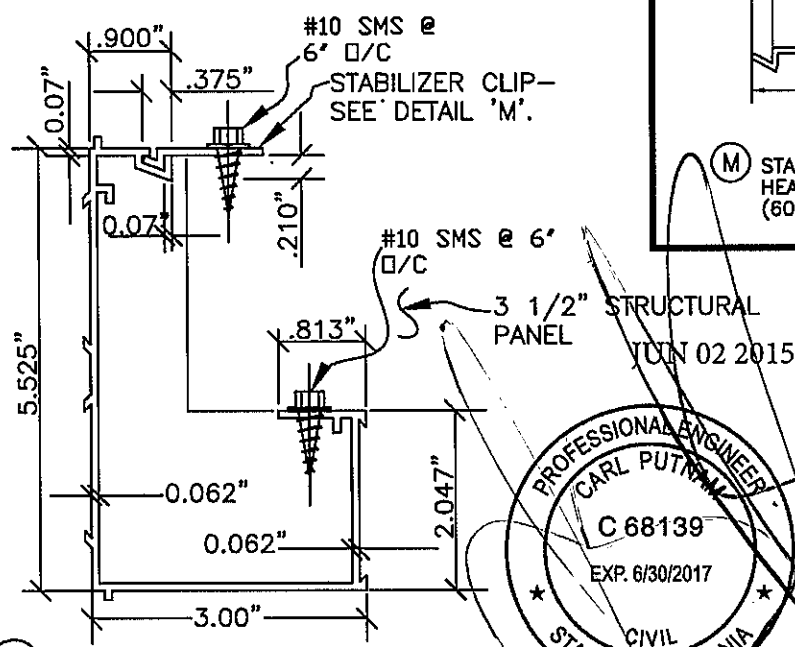
(J) A-RAIL
(6063-T6 ALUM. ALLOY)



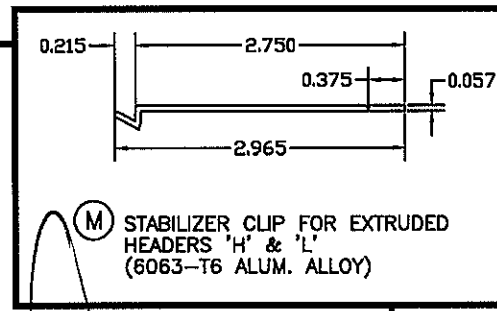
(N) 5 1/2" EXTRUDED HEADER SPLICE
6063T5 ALUMINUM ALLOY



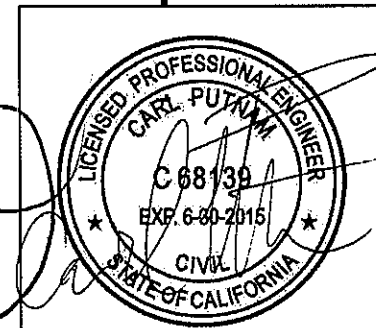
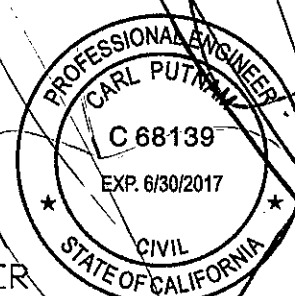
(K) ALASKAN HEADER
(6105-T5 ALUM. ALLOY)
ICC ESR1398 (2012 IBC) 9/29/2013



(L) 5 1/2" EXTRUDED HEADER
(6105-T5 ALUM. ALLOY)



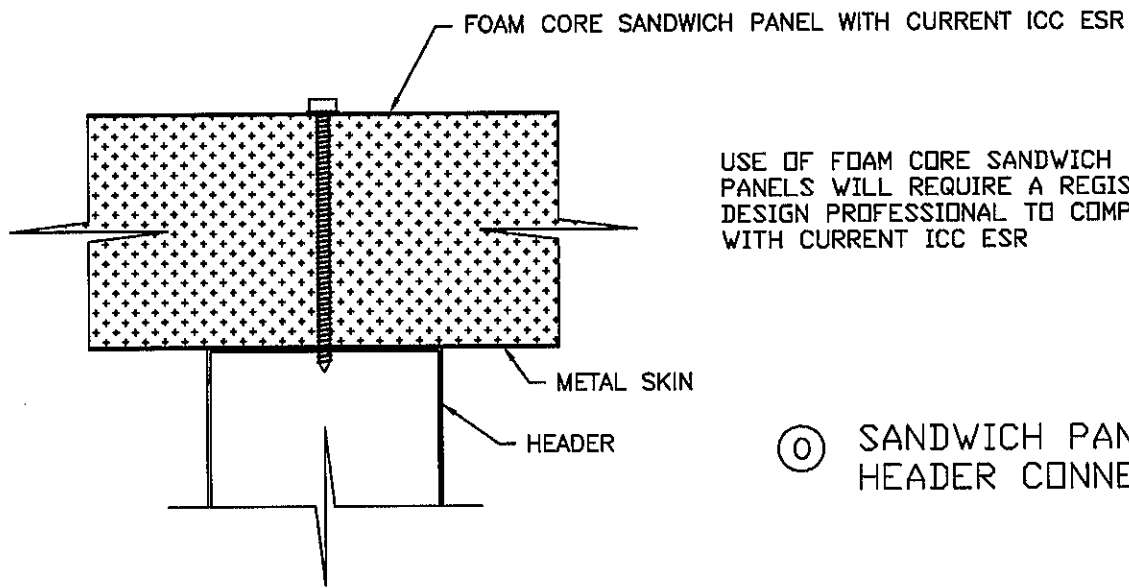
(M) STABILIZER CLIP FOR EXTRUDED
HEADERS 'H' & 'L'
(6063-T6 ALUM. ALLOY)



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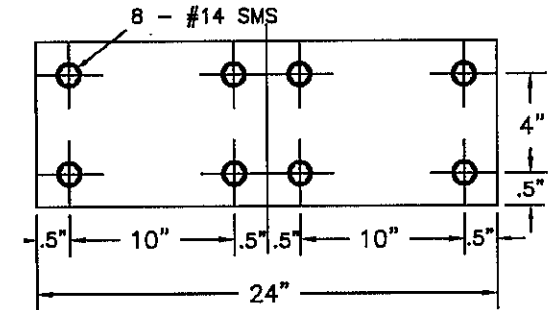
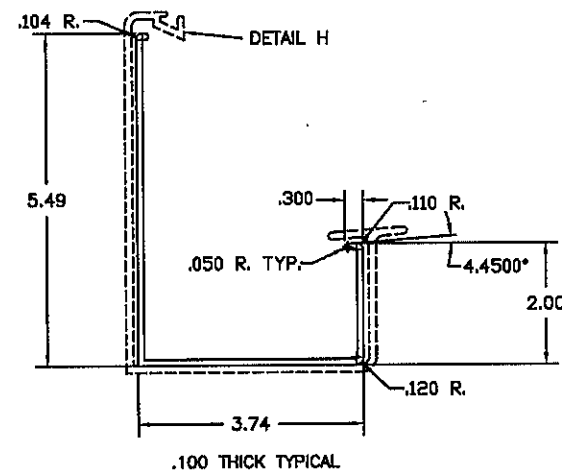
Amerimax 28921 US Hwy 74
EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE: CD02-2012
	SHEET: 2 of 9

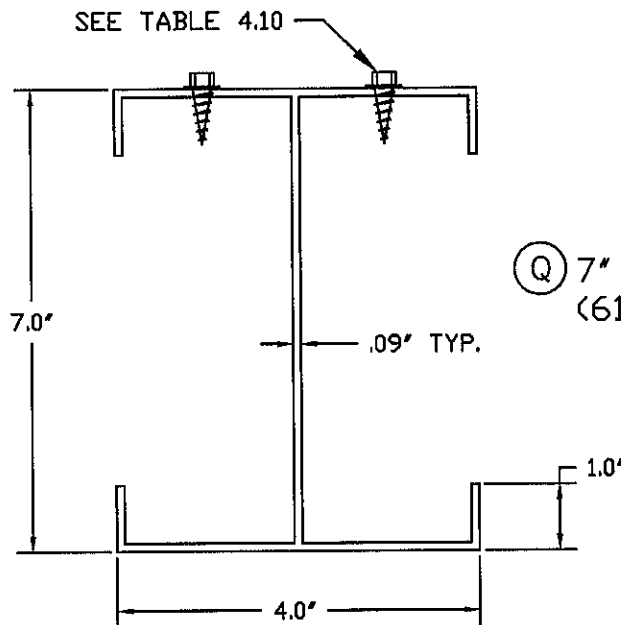


USE OF FOAM CORE SANDWICH PANELS WILL REQUIRE A REGISTERED DESIGN PROFESSIONAL TO COMPLY WITH CURRENT ICC ESR

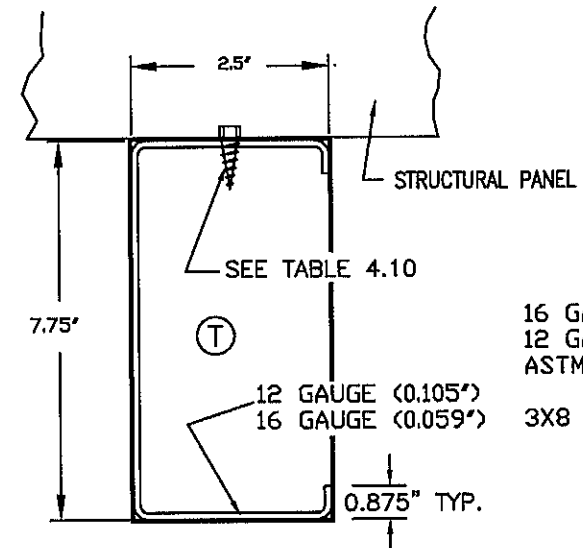
ⓐ SANDWICH PANEL TO HEADER CONNECTION



ⓑ CLASSIC ALASKAN HEADER SPLICE (6063 T5 ALUM. ALLOY)

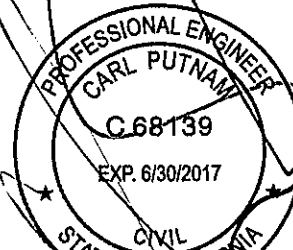


ⓐ 7" x 4" I BEAM HEADER (6105-T5 ALUM. ALLOY)



16 GA ($t=0.059$ ") 3"X8" STEEL HEADER
 12 GA ($t=0.105$ ") 3"X8" STEEL HEADER
 ASTM A653 GRADE 50
 3X8 WRAP REQUIRED AS PER DETAIL AW

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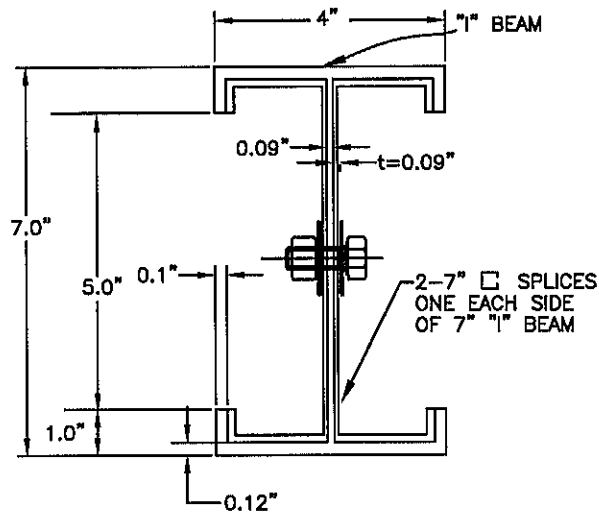


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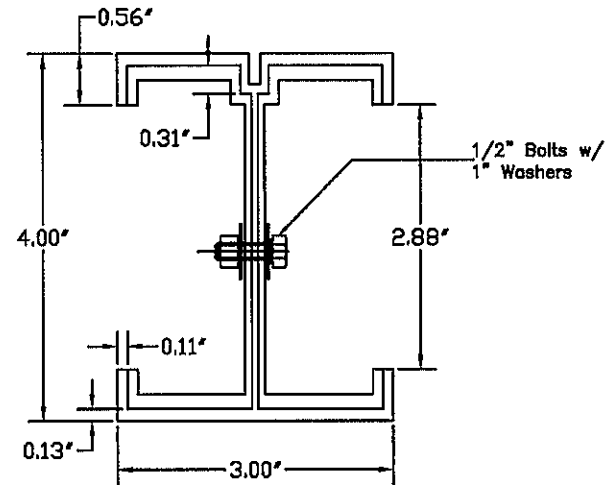
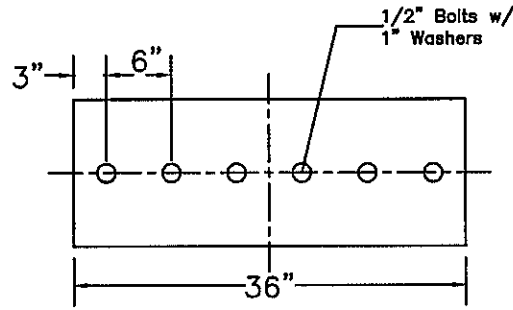
Amerimax 28921 US Hwy 74
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE: CD03-2012
	SHEET: 3 of 9

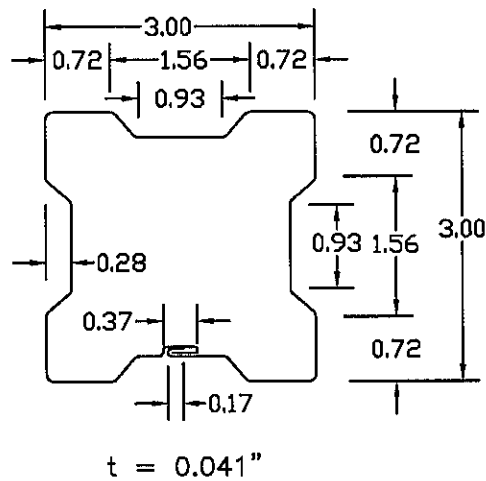
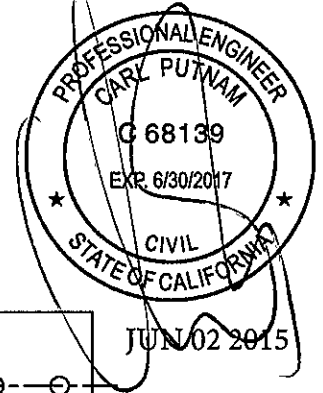
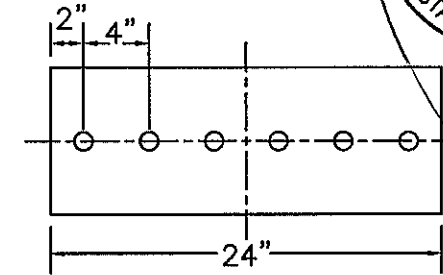


7" X 4" I-BEAM SPLICE
(6105-T5 ALUM. ALLOY)

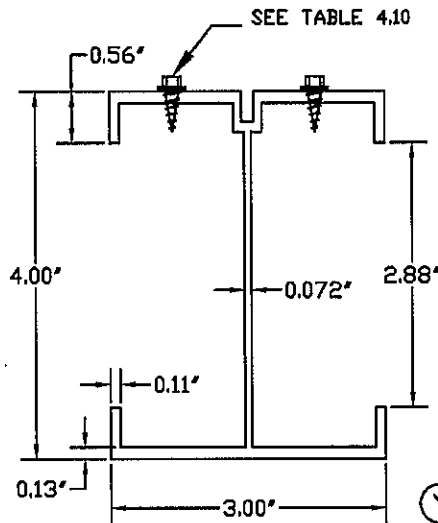
Ⓚ 7" X 4" ALUM. I-BEAM FULL STRENGTH SPLICE BOLT LAYOUT



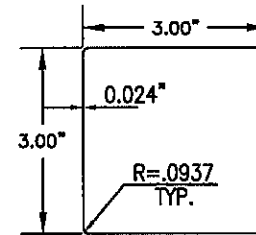
Ⓧ 4"X3" I BEAM FULL STRENGTH
SPLICE BOLT LAYOUT
6063-T6 ALUMINUM ALLOY



Ⓦ 3" X 3" CLOVERLEAF HEADER
(A-653 Fy=40 KSI STEEL)

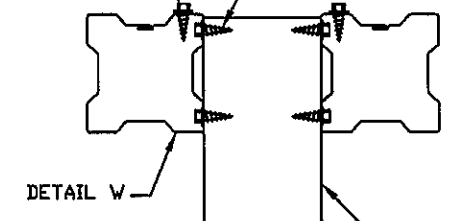


Ⓨ 4"X3" I BEAM
6063-T6 ALUM



Ⓩ 3" SQUARE POST
(3004-H34 ALUM. ALLOY)

SEE TABLE 4.9 OR 4.10
FOUR #14 SMS PER HEADER



DETAIL W
DETAIL AH OR AG

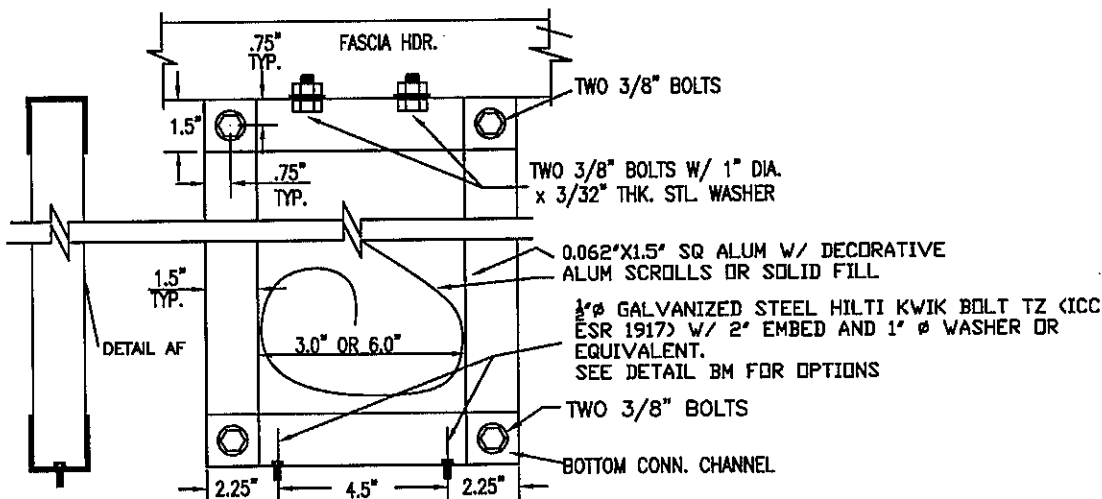
ⓐⓐ DOUBLE STEEL CLOVERLEAF HEADER
ASTM A653 GRADE 40



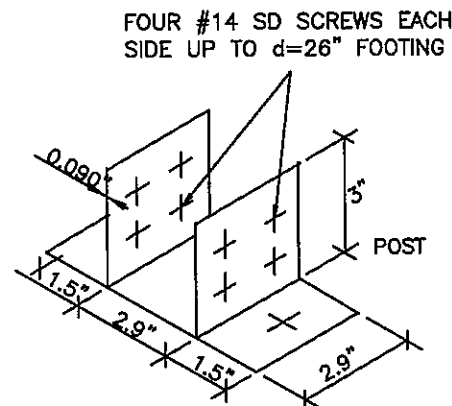
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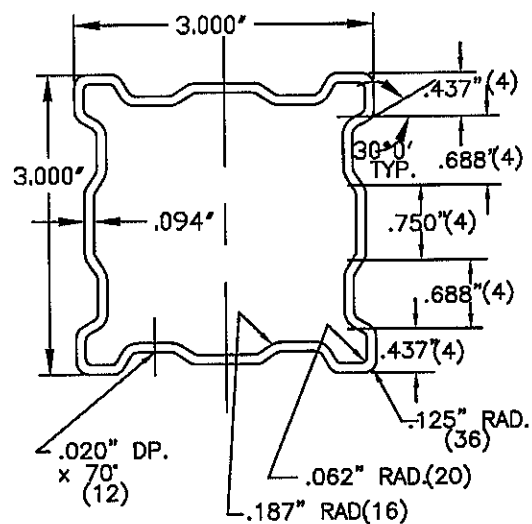
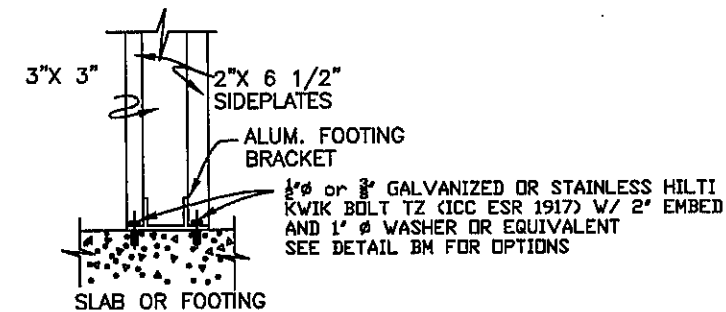
Amerimax		28921 US Hwy 74 Romoland, CA 92585	
DRAWN BY: BEJ/CP	TYPE:	NAME: Component Parts & Connection Details	
SCALE: NTS	DATE:	FILE: CD04-2012	SHEET: 4 of 9



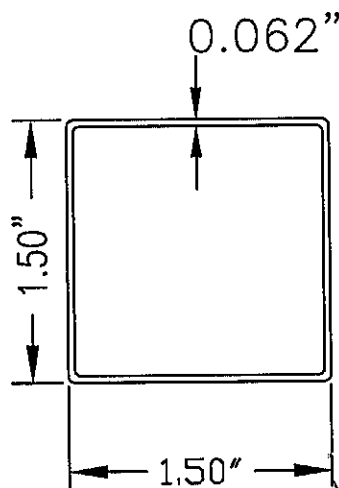
Ⓐ SCROLL POST CONNECTION TO CONCRETE SLAB OR FOOTING
 BRACKET = 6063 T6 ALUM ALLOY
 POST = DETAIL AF
 ONLY USABLE FOR SINGLE SPAN ATTACHED UNITS



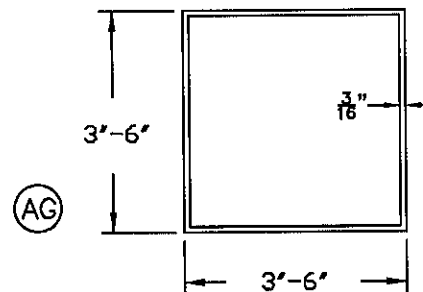
Ⓐ ALUMINUM FOOTING BRACKET FOR CONNECTING TO CONCRETE SLAB OR FOOTING
 6063 T6 ALUM ALLOY
 ONLY USABLE FOR SINGLE SPAN ATTACHED UNITS



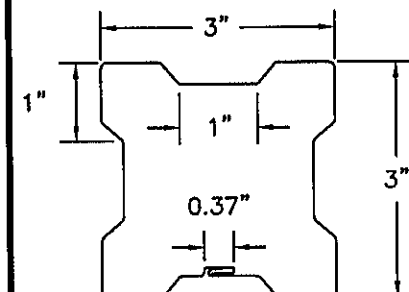
Ⓐ COLONIAL POSTS
 (3" ALUM. 6063-T6)
 "t" = 0.062" UNLESS OTHERWISE NOTED



Ⓐ TWIN 1.5" SQ. X .062"
 EXTRUDED POST
 (ALUM. 6063-T6)



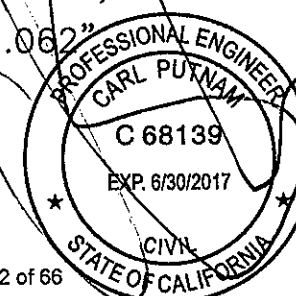
Ⓐ 3', 4', 5' or 6' ASTM A500
 GRADE B STEEL POST
 SEE GENERAL NOTE #9 FOR
 CORROSION PROTECTION



Ⓐ t (IN) = 0.030, 0.040 (ALUM)
 = 0.041 (STEEL)

Ⓐ 3" ALUM OR STEEL CLOVERLEAF
 POST
 (3105 H25 OR ASTM A653 GRADE
 40 STEEL)

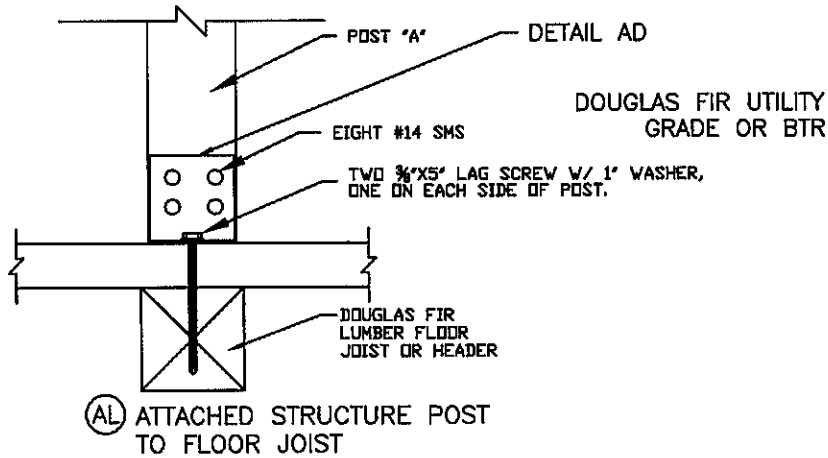
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Amerimax 28921 US Hwy 74
 EXTERIOR HOME PRODUCTS Romoland, CA 92588

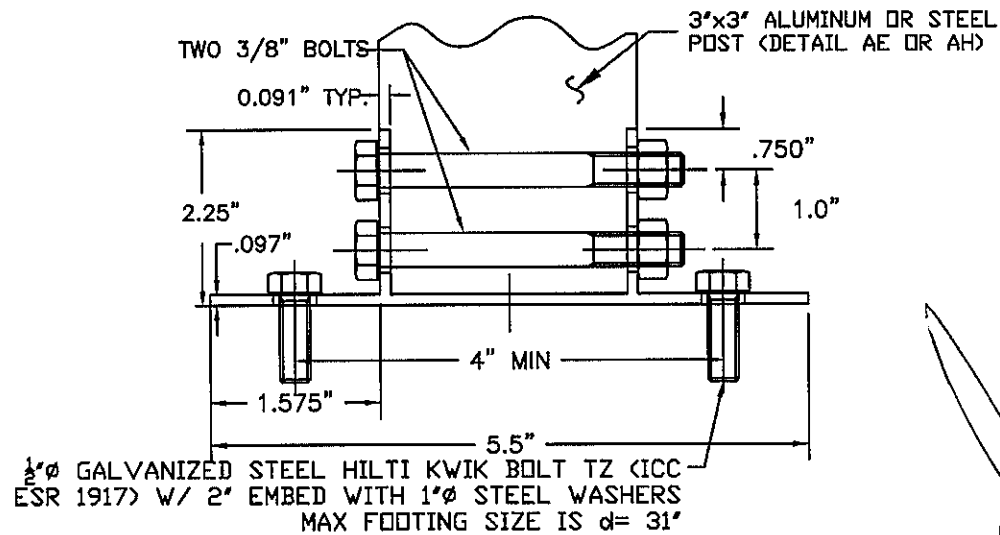
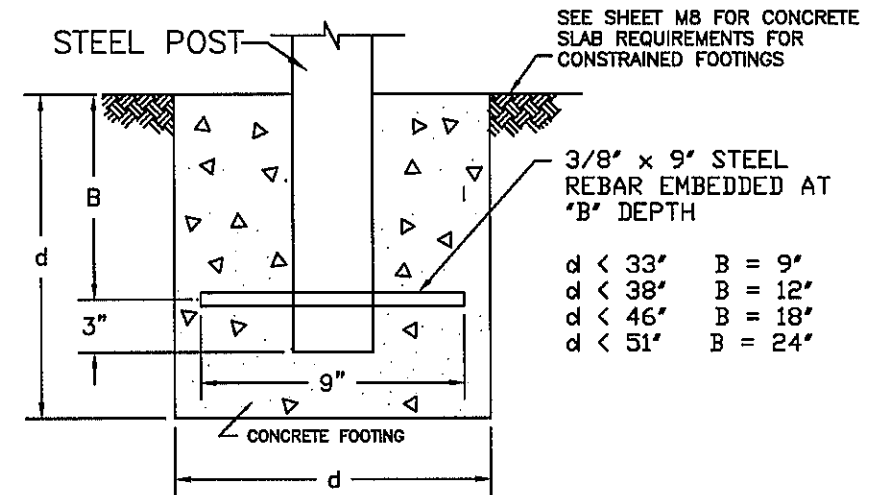
DRAWN BY:	TYPE:
BEJ/CP	
SCALE:	NAME:
NTS	Component Parts & Connection Details
DATE:	SHEET:
	CD05-2012 5 of 9



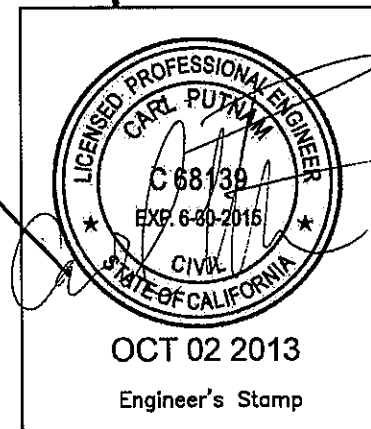
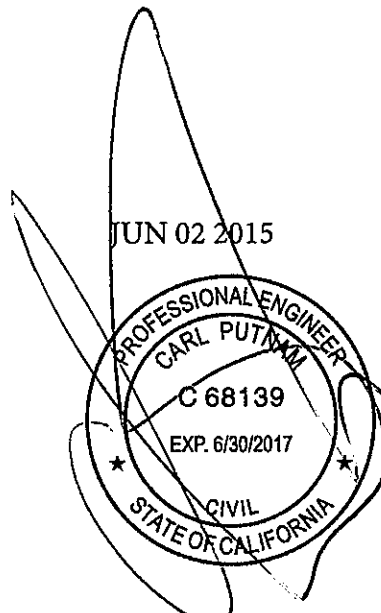
POST SPACING IS RESTRICTED TO THE 'DN SLAB' SPACING SHOWN IN TABLES 5.1, 5.5, 5.6, 5.7, 5.8, 6.1, 6.5, 6.6, 6.7 OR 6.8.

SOLID COVERS MUST USE THESE RESTRICTIONS FOR 10 PSF SNOW/LIVE LOAD
 MAXIMUM WINDSPEED IS
 150 MPH EXP B
 120 MPH EXP C

FOR 20 PSF OR GREATER SNOW/LIVE LOAD
 MAXIMUM WINDSPEED IS
 150 MPH EXP C



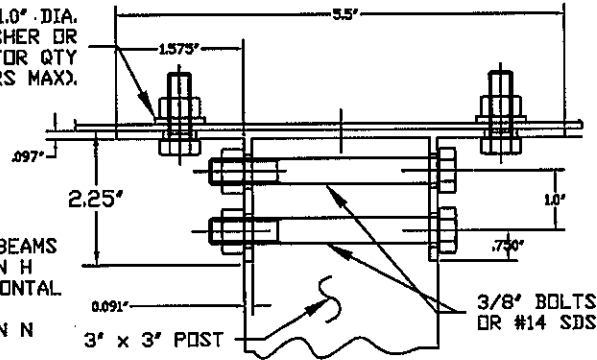
AP POST TO FOOTING ATTACHMENT DETAIL SINGLE SPAN ATTACHED UNITS ONLY



AQ FREESTANDING OR ATTACHED STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL

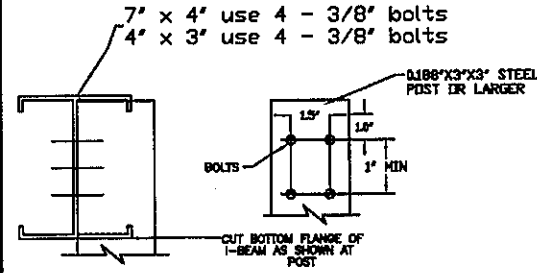
Amerimax		28921 US Hwy 74	
EXTERIOR HOME PRODUCTS		Romoland, CA 92585	
DRAWN BY:	TYPE:		
BEJ/CP			
SCALE:	NAME:	Component Parts & Connection Details	
NTS			
DATE:	FILE#:	SHEET:	
	CD06-2012	6 of 9	

3/8" BOLTS W/ 1.0" DIA. x 3/32" THK. STL. WASHER OR #14 SDS. SEE NOTE FOR QTY (4 FASTENERS MAX).

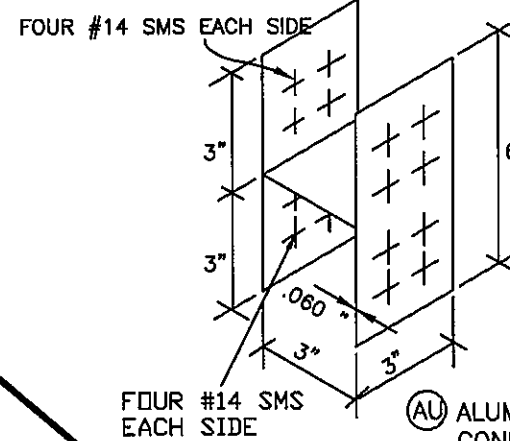


(AR) ALTERNATE 3" SQ. POST CONNECTOR BRACKET (6063-T6 ALUM. ALLOY)

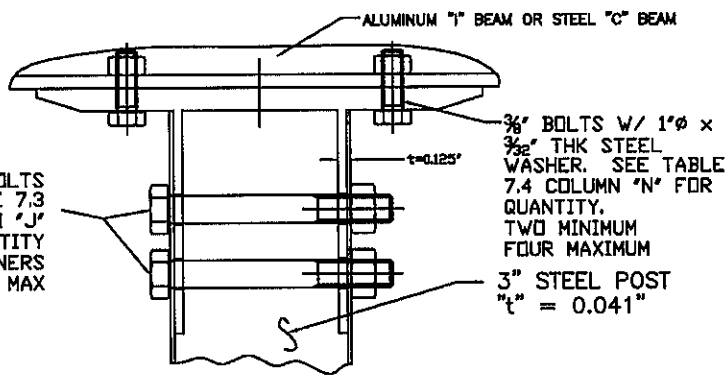
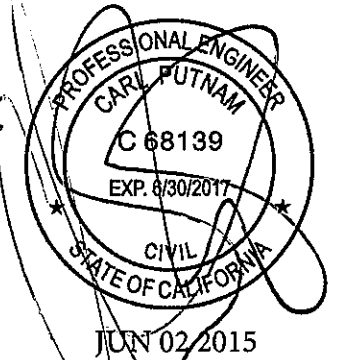
ALL "I" BEAMS & "C" BEAMS USE TABLE 7.3 COLUMN H FOR NUMBER OF HORIZONTAL BOLTS USE TABLE 7.4 COLUMN N FOR VERTICAL BOLTS USE 7.3 COLUMN I FOR HORIZONTAL #14 SDS USE TABLE 7.4 COLUMN L FOR VERTICAL #14 SDS (SDS= SELF DRILLING SCREW) 4 FASTENERS MAX



(AS) ALTERNATE - I BEAM TO POST CONNECTION



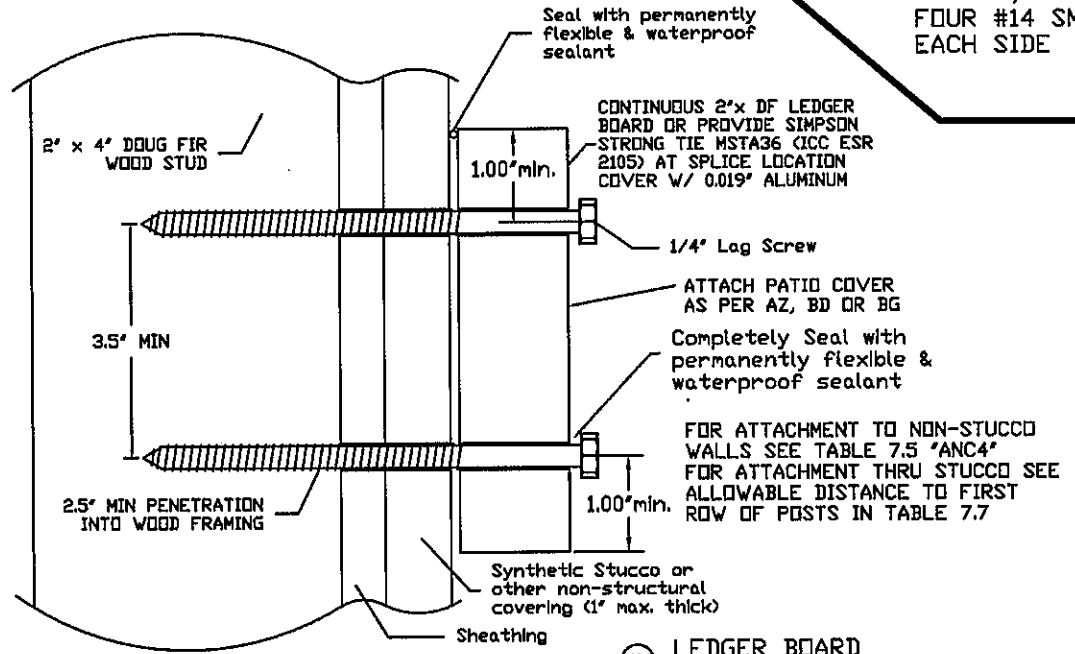
(AU) ALUMINUM "H" BRACKET FOR CONNECTING COLUMN TO HEADER (6063-T5 ALUM. ALLOY)



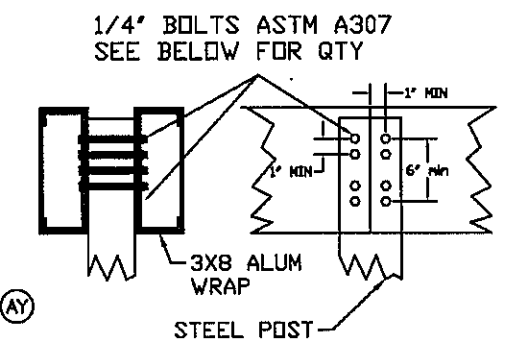
(AT) 3" STEEL POST TO HEADER CONN. BRACKET (6063-T6 ALUM.)

3/8" BOLTS SEE TABLE 7.3 COLUMN "J" FOR QUANTITY 4 FASTENERS MAX

3/8" BOLTS W/ 1" x 3/8" THK STEEL WASHER. SEE TABLE 7.4 COLUMN "N" FOR QUANTITY. TWO MINIMUM FOUR MAXIMUM

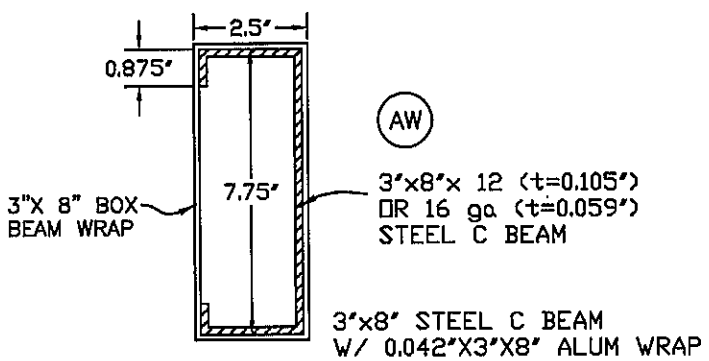


(AV) LEDGER BOARD ATTACHMENT DETAIL

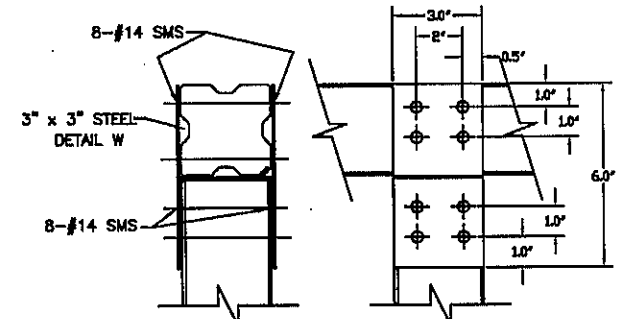


(AY) DOUBLE OR SINGLE 3"x8" STEEL C BEAM. BOLT LAYOUT FOR SPLICED AND NON-SPLICE ATTACHMENT

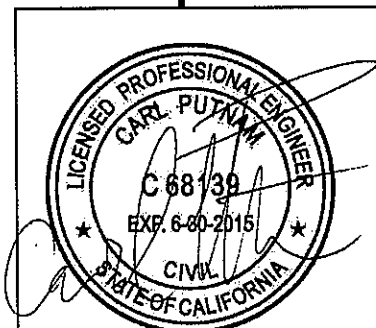
Beam Type	Req'd # of 1/4" bolts
All C Beams "On Slab"	4
Single 16G Steel 3x8	4
Double 16G Steel C	5
Single/Double 12G Steel C	8



(AW) 3"x8" STEEL C BEAM W/ 0.042"x3"x8" ALUM WRAP



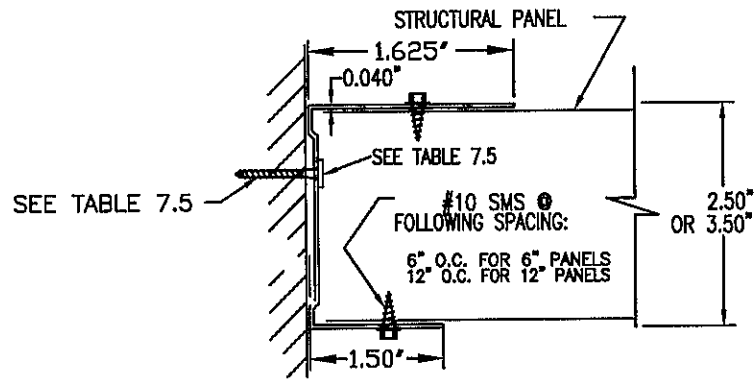
(AX) POST TO HEADER CONNECTION FOR 3" X 3" STEEL HEADER "W"



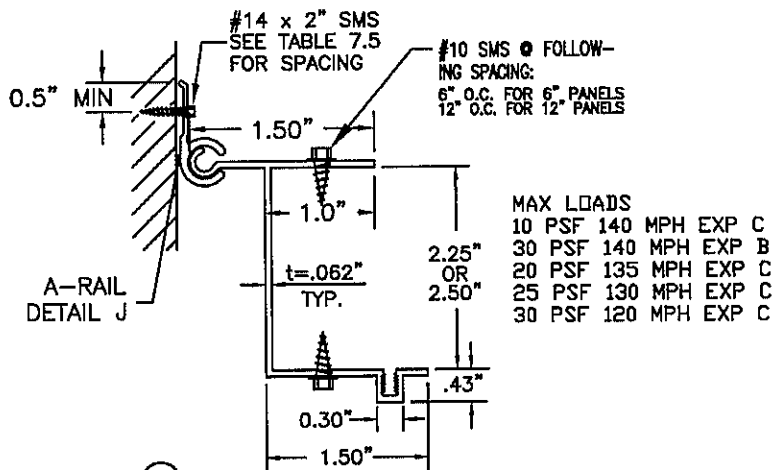
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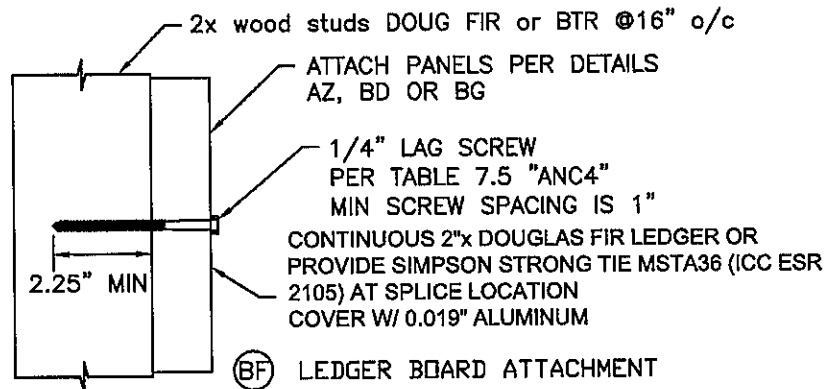
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SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE#: CD07-2012
	SHEET: 7 of 9



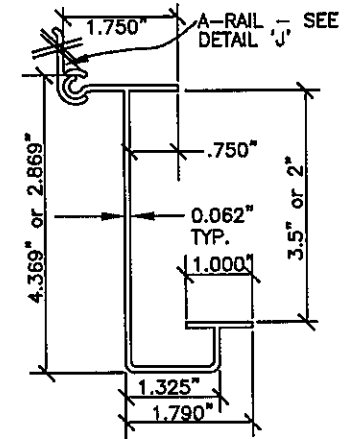
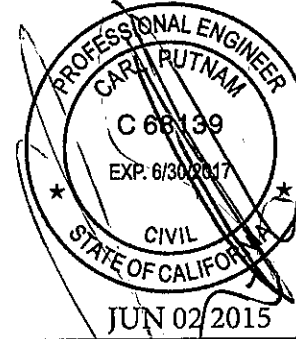
AZ ROLLFORMED HANGER (3004-H34 ALUM. ALLOY)



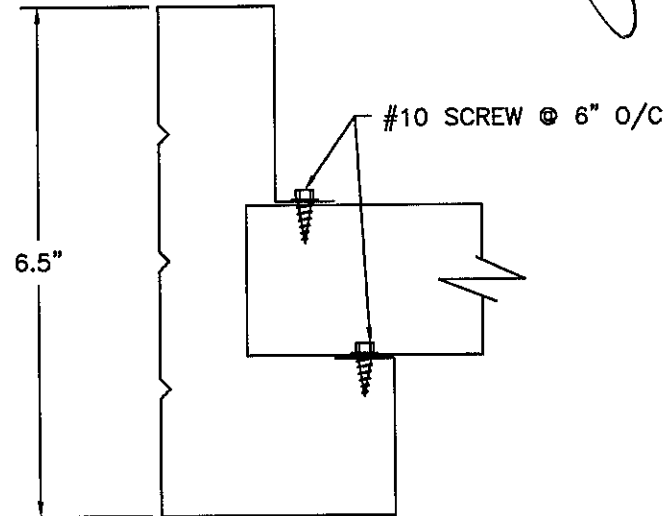
BD EXTRUDED HANGER (6063-T6 ALUM. ALLOY)



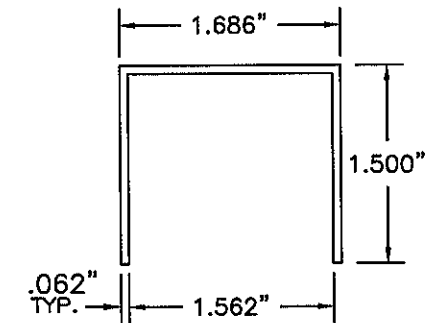
ICC ESR1398 (2012 IBC) 9/29/2013



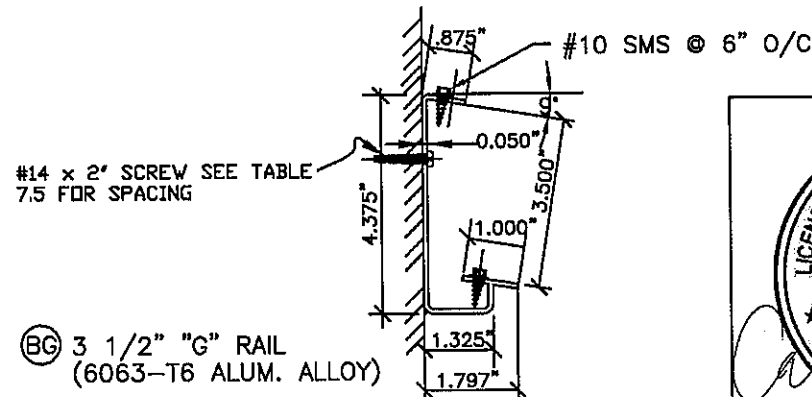
BB 3 1/2" "J" HANGER (6063-T6 ALUM. ALLOY)



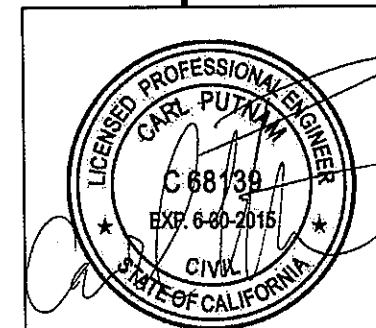
BE ROLLFORMED HEADER 'E' CONN. DETAILS TO STRUCTURAL PANELS



BH EXTRUDED CHANNEL CONNECTOR (6063-T6 ALUM. ALLOY)

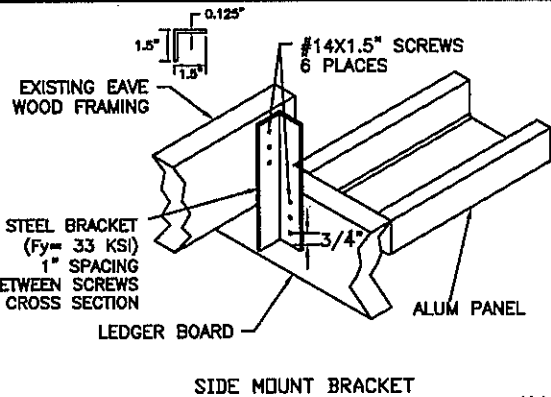
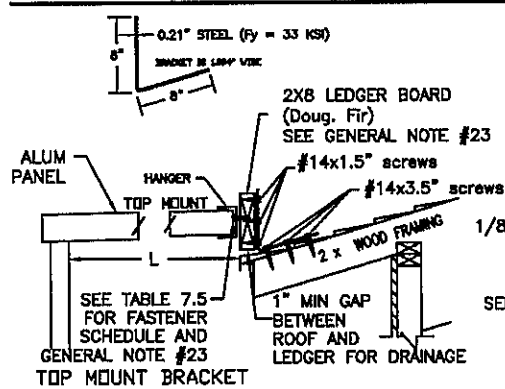


BG 3 1/2" "G" RAIL (6063-T6 ALUM. ALLOY)



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BEJ/CP			
SCALE:	NAME:		
NTS	Component Parts & Connection Details		
DATE:	FILE#:	SHEET:	
	CD08-2012	8 of 9	

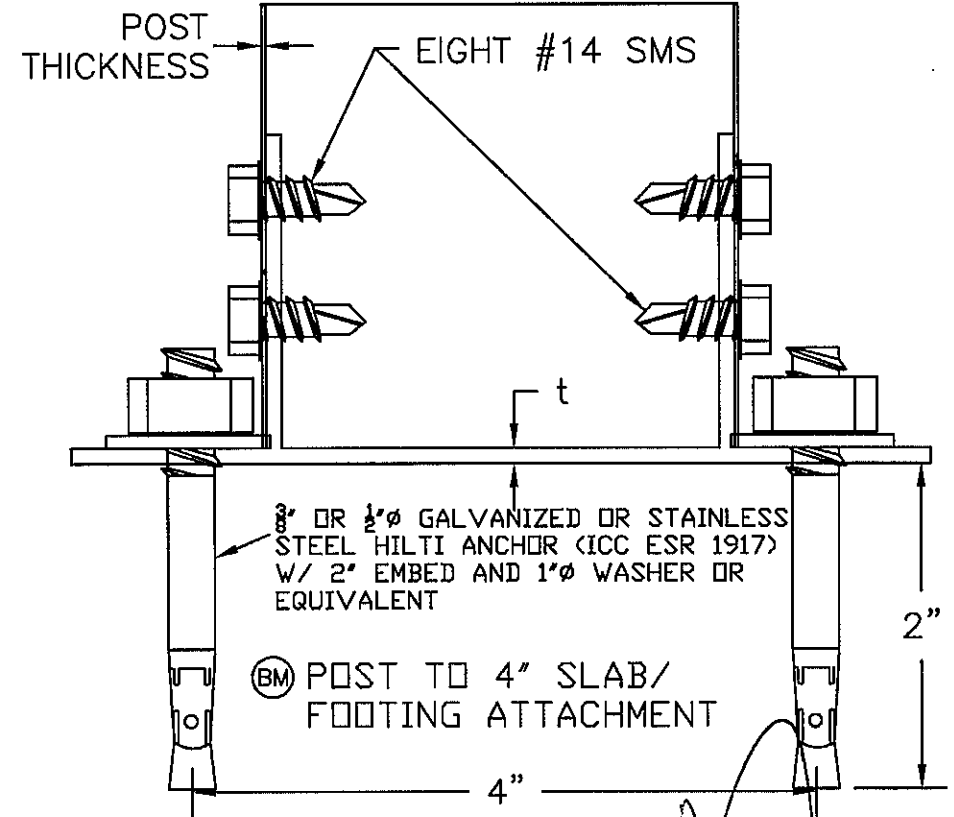
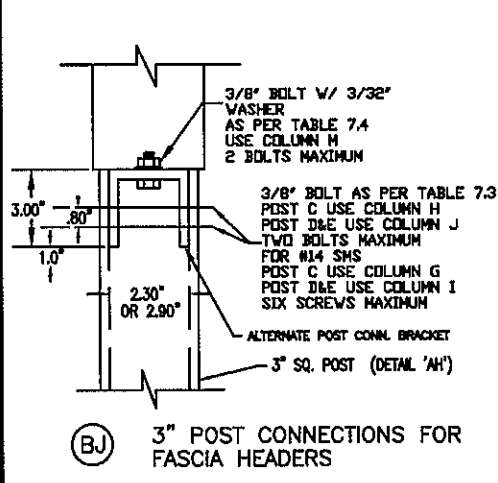
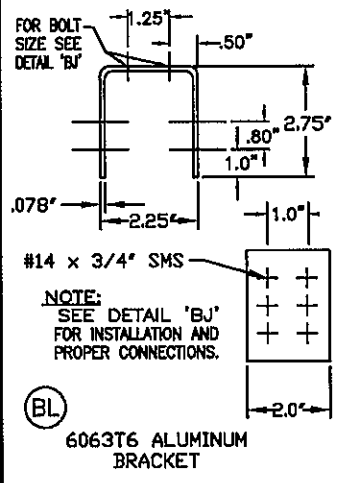
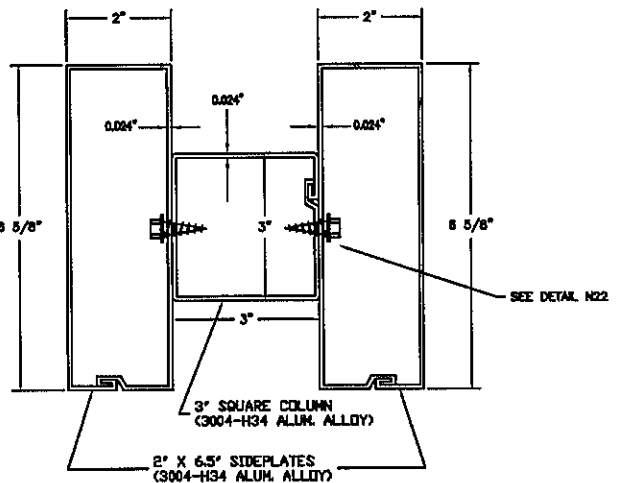


Live Load (psf)	Wind Speed and Exposure	MAX "L" FOR TOP OR SIDE MOUNT	
		16" o/c	24" o/c
10	110 mph Exp B	21'-3"	14'-2"
	115 mph Exp B	19'-7"	13'-1"
	130 mph Exp B	15'-7"	10'-4"
	140 mph Exp B	13'-7"	9'-1"
	110 mph Exp C	15'-7"	10'-4"
20	115 mph Exp C	14'-3"	9'-7"
	130 mph Exp C	11'-4"	7'-7"
	140 mph Exp C	9'-10"	6'-7"

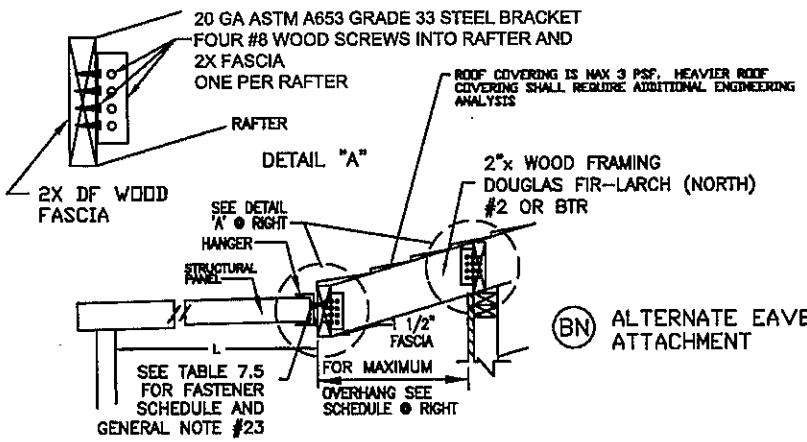
ALL HOUSE PENETRATIONS MUST BE COMPLETELY AND PERMANENTLY SEALED
NOT ALLOWED IN SNOW LOAD AREAS
SEE GENERAL NOTE #9 FOR CORROSION PROTECTION

EAVE OVERHANG AND "L" MUST COMPLY WITH DETAIL BN ALSO

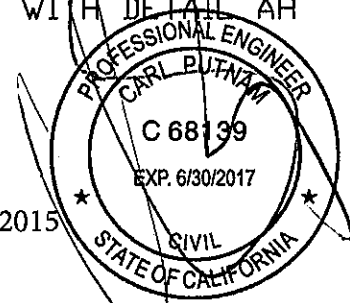
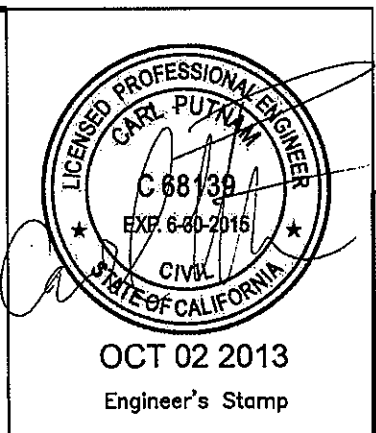
(B) ALTERNATE EAVE ATTACHMENTS



ALUMINUM BRACKET 6063T6
t = 0.090" >> SLAB ATTACH FOR 140 EXP C
t = 0.090" >> FOOTING d = 31" MAX
t = 0.160" >> FOOTING d = 37" MAX WITH DETAIL AH STEEL POST

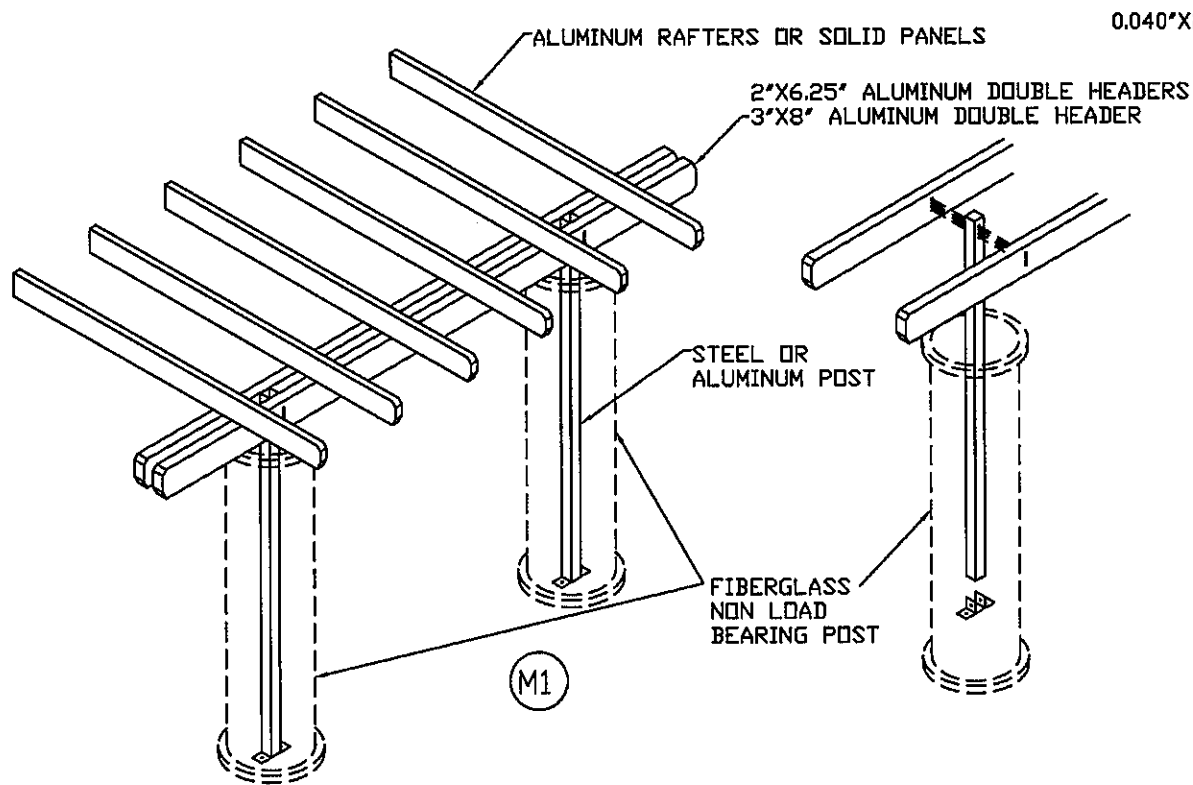


Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L" EAVE OVERHANG				
		6"	12"	18"	24"	30"
10 psf 115 MPH EXP B	2x4	18'-0"	18'-0"	12'-0"	7'-1"	3'-8"
	2x6	18'-0"	18'-0"	18'-0"	18'-0"	17'-1"
10 psf 115 MPH EXP C	2x4	17'-0"	17'-0"	12'-0"	7'-1"	3'-8"
	2x6	17'-0"	17'-0"	17'-0"	17'-0"	17'-0"
10 psf 140 MPH EXP C	2x4	16'-0"	16'-0"	12'-0"	7'-1"	3'-8"
	2x6	16'-0"	16'-0"	16'-0"	16'-0"	16'-0"
20 psf 140 MPH EXP C	2x4	16'-0"	10'-3"	5'-10"	3'-4"	1'-8"
	2x6	16'-0"	16'-0"	16'-0"	11'-9"	8'-4"
25 psf 140 MPH EXP C	2x4	16'-0"	11'-3"	6'-4"	3'-8"	1'-9"
	2x6	16'-0"	16'-0"	16'-0"	12'-10"	9'-1"
30 psf 140 MPH EXP C	2x4	15'-0"	9'-2"	5'-1"	2'-8"	1'-0"
	2x6	15'-0"	15'-0"	15'-0"	10'-4"	7'-1"
40 psf	2x4	14'-0"	6'-7"	3'-4"	1'-4"	0'-0"
	2x6	14'-0"	14'-0"	11'-0"	7'-2"	4'-7"
60 psf	2x4	14'-0"	14'-0"	14'-0"	14'-0"	10'-3"
	2x6	12'-0"	12'-0"	12'-0"	8'-8"	5'-10"

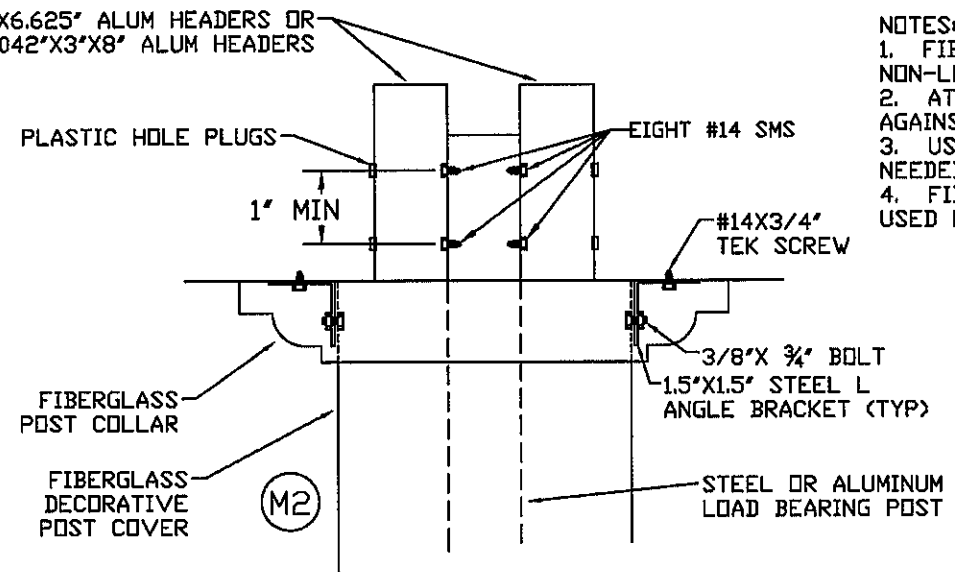


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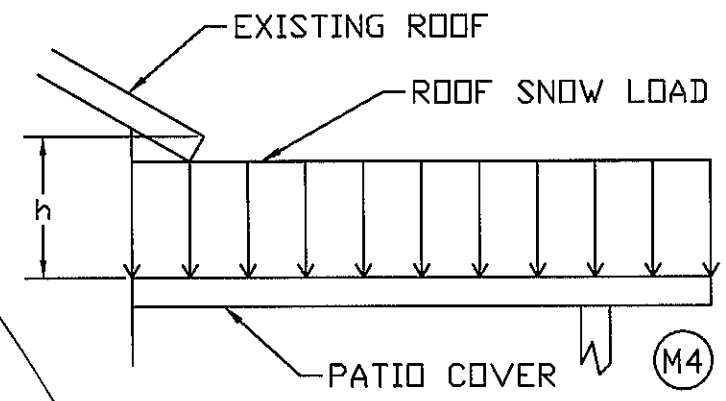
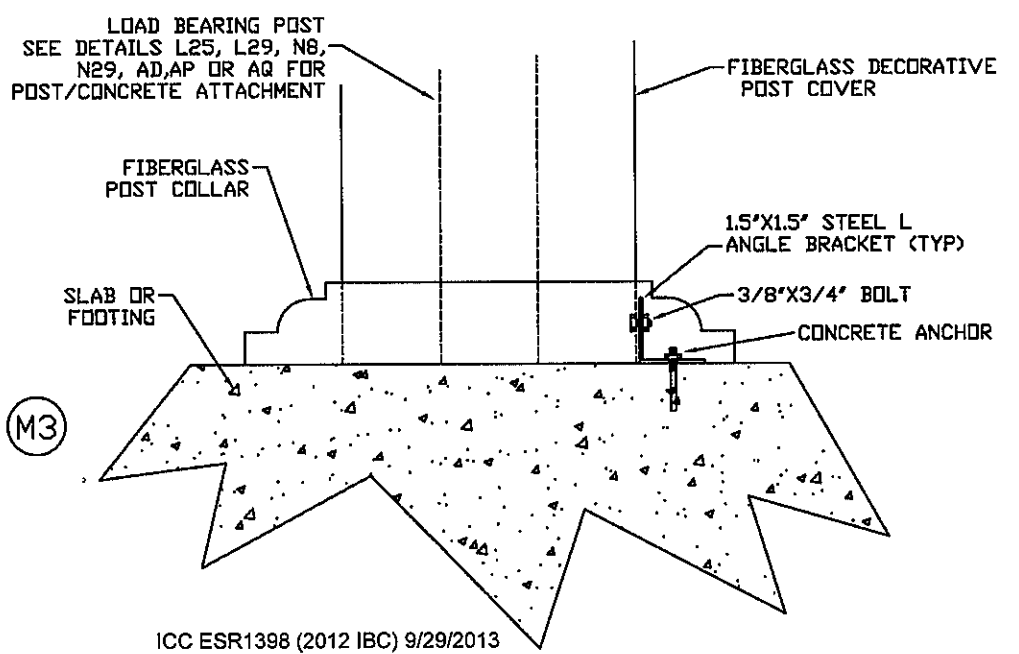
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DATE: FILE: CD09-2012 SHEET: 9 of 9



0.040\"/>

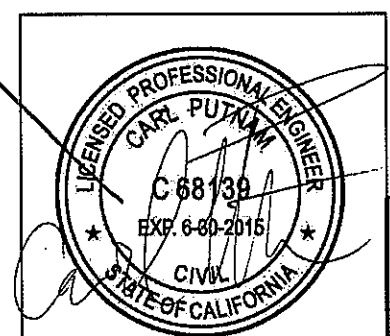
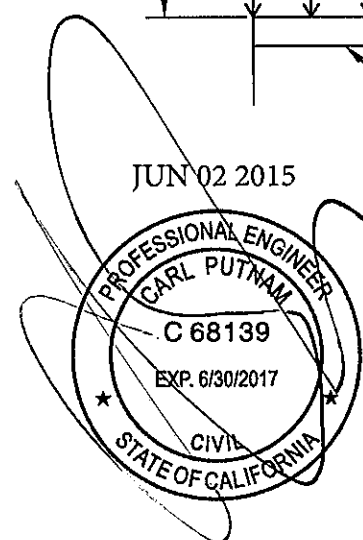


- NOTES:
1. FIBERGLASS POSTS ARE NON-LOAD BEARING.
 2. ATTACHMENT TO HOLD COVERING AGAINST MINOR LATERAL FORCES.
 3. USE MULTIPLE BRACKETS AS NEEDED.
 4. FIBERGLASS POSTS MAY BE USED FOR ANY STRUCTURE.



STRUCTURES COMPLYING WITH THIS DETAIL DO NOT REQUIRE ADDITIONAL DRIFTING SNOW CONSIDERATIONS

GROUND SNOW LOAD (PSF)	MAXIMUM "h" (IN)
10	9
15	14
20	17
25	18
30	20
40	25
50	30
60	33

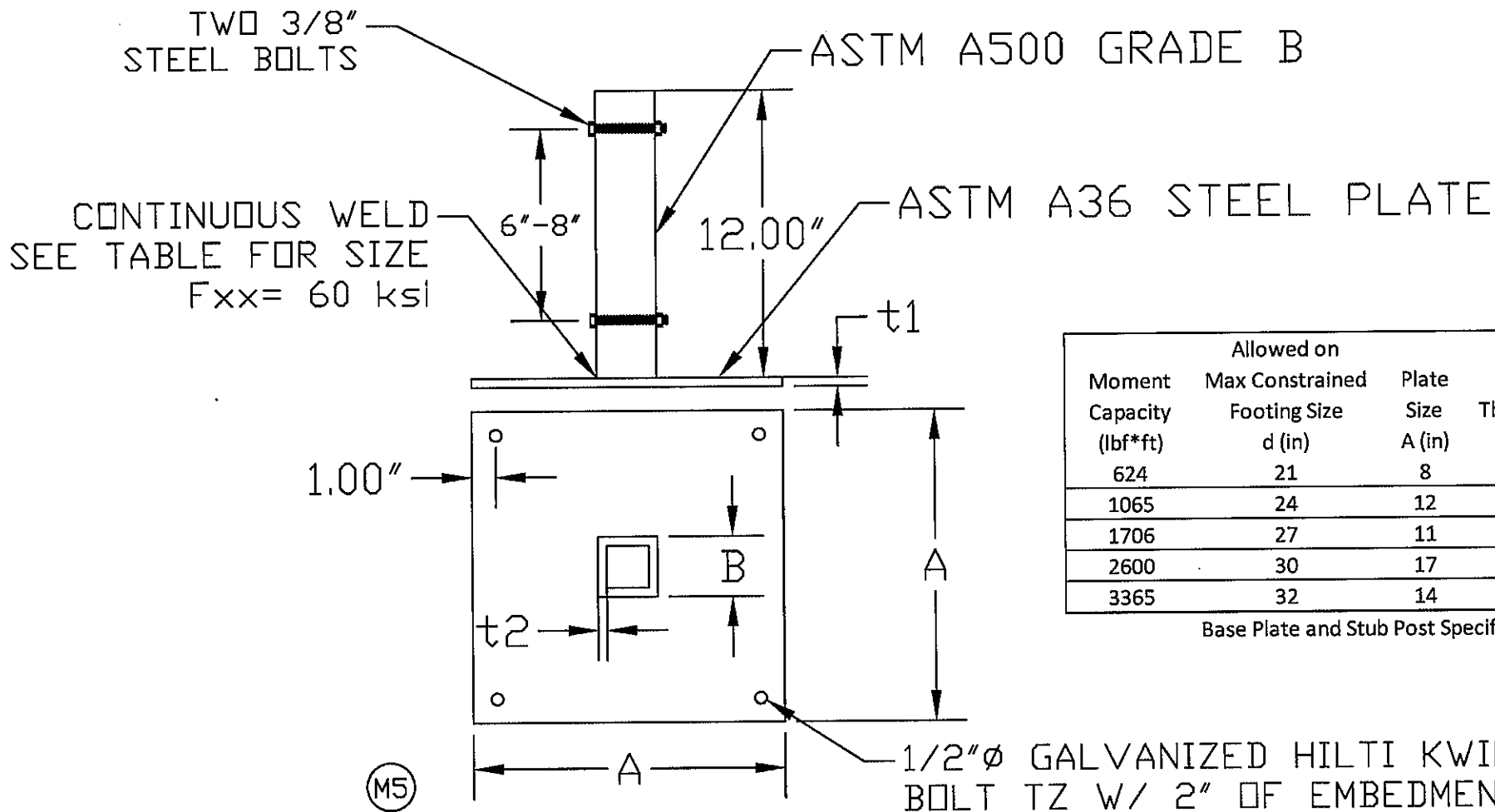


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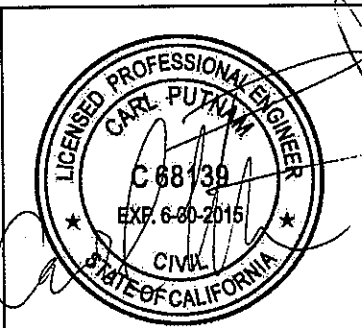
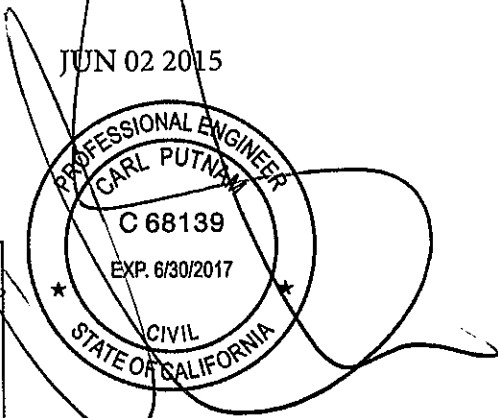
DRAWN BY: CP	TYPE:
SCALE: NTS	NAME: Miscellaneous Details
DATE:	FILE: Misc1a-2012
SHEET:	



Moment Capacity (lb*ft)	Allowed on Max Constrained Footing Size d (in)	Plate Size A (in)	Plate Thickness t1 (in)	Stub Post Size B (in)	Stub Post Size t2 (in)	Minimum Weld Size (in)
624	21	8	0.375	2.5	0.188	0.125
1065	24	12	0.375	2.5	0.188	0.125
1706	27	11	0.5	2.5	0.188	0.125
2600	30	17	0.5	2.5	0.25	0.188
3365	32	14	0.625	2.5	0.375	0.25

Base Plate and Stub Post Specifications

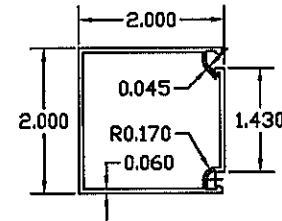
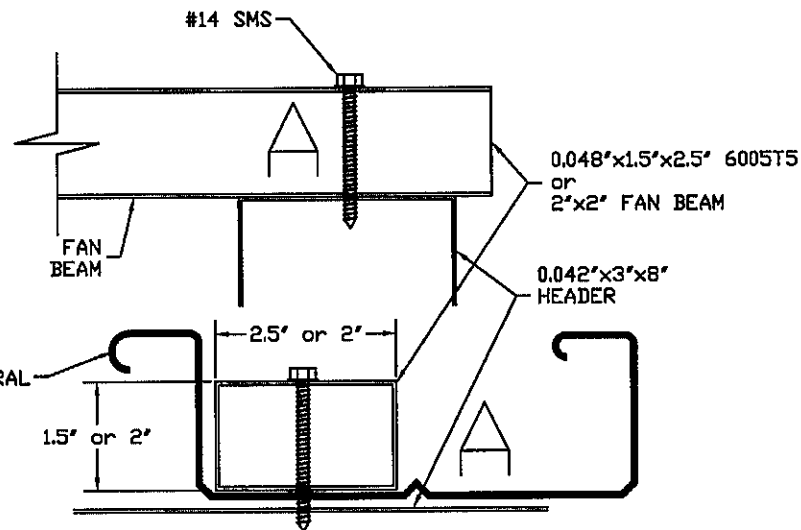
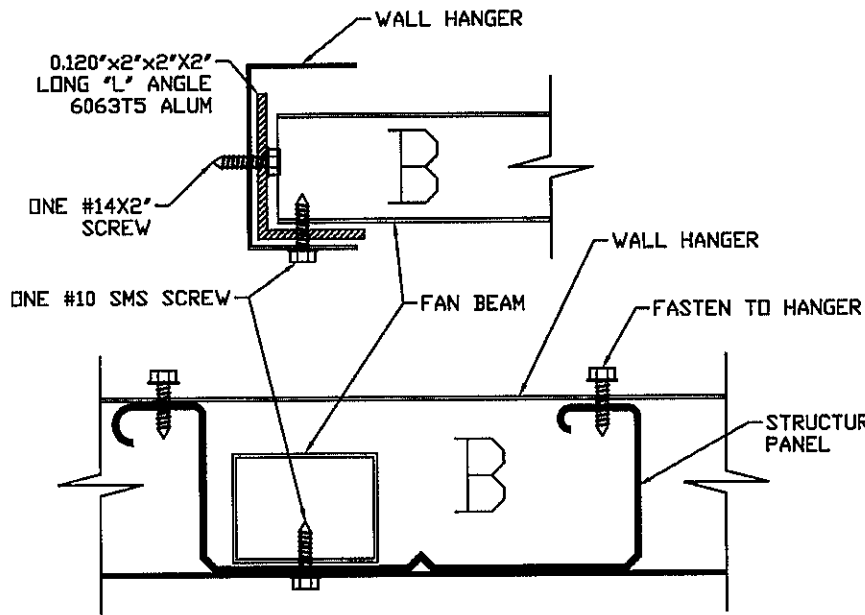
WELDED MOMENT RESISTING STEEL BASE PLATE
 ALTERNATIVE TO POST EMBEDMENT IN CONCRETE FOOTING
 THE WELDED POST BRACKET MUST BE VERIFIED TO
 COMPLY WITH THE REQUIREMENTS IN DETAIL M5 OF THESE
 PLANS AND FABRICATED IN ACCORDANCE W/ SECTION
 1704.2.5.2 BY AN APPROVED FABRICATOR TO THE
 SATISFACTION OF THE CODE OFFICIAL



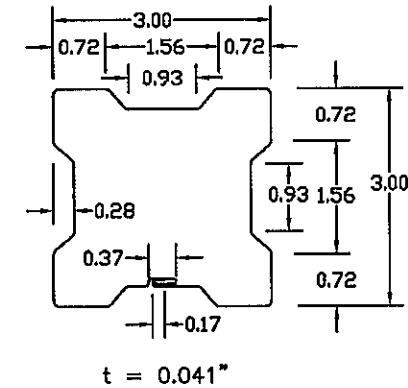
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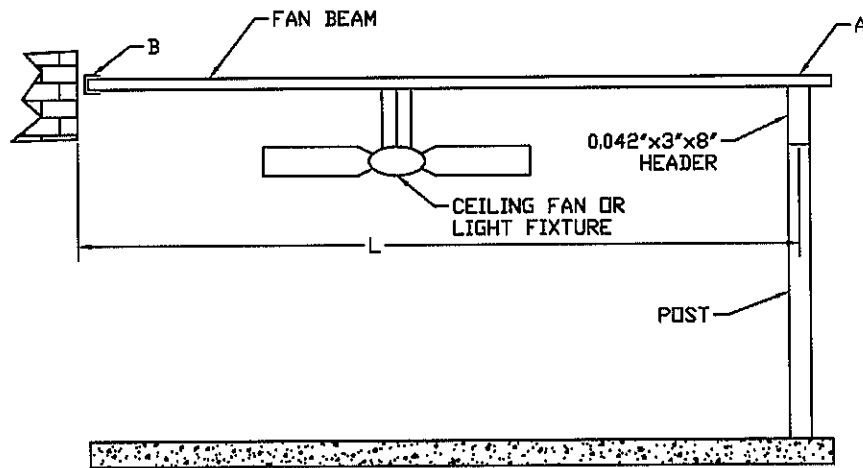
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DATE:	FILE: Misc1b-2012
SHEET:	



2"X2" FAN BEAM 6063T5 ALUM
NO ORIENTATION SPECIFIED

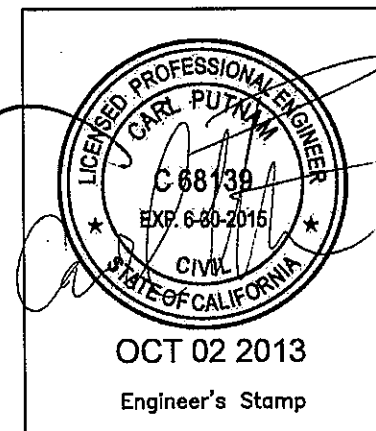
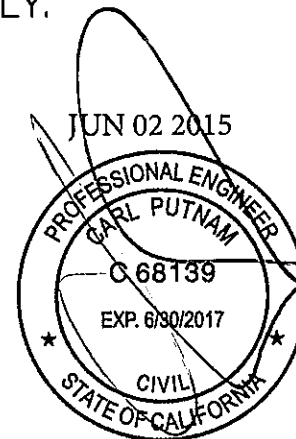


3" X 3" CLOVERLEAF HEADER
(A-653 Fy=40 KSI STEEL)



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

Weight of fan/lights	Allowable Fan Beam Spans	
	0.048"x1.5"x2.5"	2"x2" Fan Beam 3x3 Steel Beam
30 lbs	15'-10"	23'



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DRAWN BY: CP	TYPE:
SCALE: NTS	NAME: Miscellaneous Details
DATE:	FILE: Misc2-2012
SHEET:	

7.0 CONCRETE FOOTING OPTIONS

EQUIVALENT FOOTINGS FOR FREESTAND AND ATTACHED				
CONSTRAINED FOOTING (IN)	NON CONSTRAINED FOOTING (IN)	DIAMETER OF CIRCULAR FOOTINGS (IN)		
		12"	18"	24"
		DEPTH OF CIRCULAR FOOTINGS (IN)		
14"	17"	24"	14"	14"
15"	18"	30"	15"	15"
16"	19"	36"	16"	16"
17"	21"	43"	19"	17"
18"	22"	52"	23"	18"
19"	23"	61"	27"	19"
20"	24"	n/a	31"	20"
21"	26"	n/a	36"	21"
22"	27"	n/a	42"	24"
23"	28"	n/a	48"	27"
24"	30"	n/a	54"	31"
25"	31"	n/a	61"	35"
26"	32"	n/a	69"	39"
27"	34"	n/a	77"	44"
28"	35"	n/a	86"	49"
29"	36"	n/a	n/a	54"
30"	38"	n/a	n/a	60"
31"	39"	n/a	n/a	66"
32"	40"	n/a	n/a	72"
33"	42"	n/a	n/a	79"
34"	43"	n/a	n/a	87"

TABLE 7.8

CONVERSION TO SQUARE TOP FOOTING

d (in)	For Single Span Attached Footings Only			
	Footing Depth			
	18"	24"	30"	36"
20"	21"	18"	16"	15"
21"	23"	20"	18"	16"
22"	24"	21"	19"	17"
23"	26"	23"	20"	18"
24"	28"	24"	21"	20"
25"	29"	26"	23"	21"
26"	31"	27"	24"	22"
27"	33"	29"	26"	23"
28"	35"	30"	27"	25"
29"	37"	32"	29"	26"
30"	39"	34"	30"	27"
31"	41"	35"	32"	29"
32"	43"	37"	33"	30"
33"	45"	39"	35"	32"
34"	47"	40"	36"	33"
35"	49"	42"	38"	35"
36"	51"	44"	39"	36"
37"	53"	46"	41"	38"
38"	55"	48"	43"	39"
39"	57"	50"	44"	41"
40"	60"	52"	46"	42"
41"	N/A	54"	48"	44"
42"	N/A	56"	50"	45"
43"	N/A	58"	51"	47"
44"	N/A	60"	53"	49"
45"	N/A	N/A	55"	50"
46"	N/A	N/A	57"	52"
47"	N/A	N/A	59"	54"
48"	N/A	N/A	N/A	55"
49"	N/A	N/A	N/A	57"
50"	N/A	N/A	N/A	59"

TABLE 7.9

SITE SPECIFIC FOOTING TABLE for SINGLE SPAN Attached Structures

Trib Area (sq ft)	Wind Condition			Lattice Trib Area (sq ft)
	115 mph Exp B	115 mph Exp C	140 mph Exp C	
	Required "d" of Footing (in)			
15	15"	17"	20"	25
20	17"	19"	21"	33
25	18"	20"	23"	42
30	19"	21"	25"	50
35	20"	23"	26"	58
40	21"	24"	27"	67
45	22"	25"	28"	75
50	23"	25"	29"	83
55	23"	26"	30"	92
60	24"	27"	31"	100
65	25"	28"	32"	108
70	25"	28"	33"	117
80	26"	30"	34"	133
90	27"	31"	35"	150
100	28"	32"	37"	167
110	29"	33"	38"	183
120	30"	34"	39"	200
130	31"	35"	40"	217
140	32"	36"	41"	233
150	33"	37"	42"	250
160	33"	37"	43"	267
170	34"	38"	44"	283
180	35"	39"	45"	300
190	35"	40"	45"	317
200	36"	40"	46"	333
210	36"	41"	47"	350
220	37"	42"	48"	367
230	38"	42"	48"	383
240	38"	43"	49"	400

TABLE 7.10

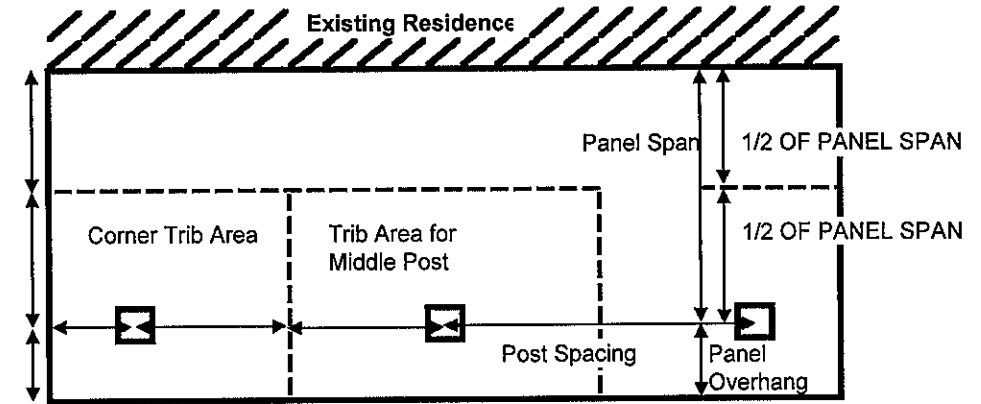


Figure 1

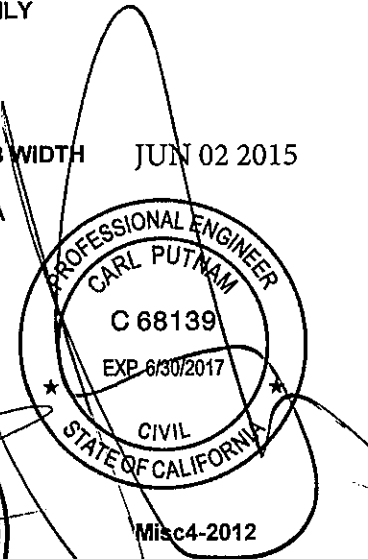
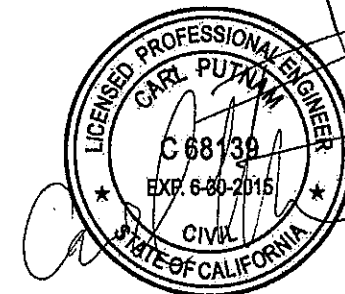
Determine Trib Area from Figure 1

INSTRUCTIONS TO USE TABLE 7.10

1. TABLE IS FOR SINGLE SPAN ATTACHED UNITS ONLY
2. DETERMINE ACTUAL TRIBUTARY AREA
FOR MIDDLE POSTS THIS IS:
TRIB WIDTH x POST SPACING
FOR END POSTS THIS IS:
(OVERHANG+ HALF OF POST SPACING) x TRIB WIDTH
3. DETERMINE FOOTING SIZE FOR WIND CONDITION
4. FOR LATTICE USE LAST COLUMN FOR TRIB AREA

JUN 02 2015

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OCT 02 2013

7.0 Requirements for Surface Mounted Posts on Concrete Slabs or Footings for Single Span Attached Lattice Structures

REQUIRED NUMBER OF POSTS FOR SINGLE SPAN LATTICE UNITS WITH SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS																							
Table L1a: Use this table for the following headers Moment Frame A = 367 lb ² /ft							Table L1b: Use this table for the following headers Moment Frame B = 489 lb ² /ft																
Wind Speed	Required Number of Posts	Post Height (ft)																					
		Wind Exposure B					Wind Exposure C																
		8'	9'	10'	11'	12'	8'	9'	10'	11'	12'												
MAXIMUM TRIBUTARY WIDTH ALLOWED																							
110 mph	2 or 3	7'	5.5'	4'	3'	2'	4'	2.5'	1.5'	1'	0'	110 mph	2 or 3	10'	8.5'	7'	5.5'	4'	6'	4.5'	3.5'	2.5'	1.5'
	4	12'	10'	8'	6.5'	5.5'	7'	5.5'	4.5'	3'	2'		4	15'	14'	12'	10'	8.5'	10.5'	8.5'	7'	5.5'	4.5'
	5	15'	14'	12'	10'	8.5'	10.5'	8.5'	7'	5.5'	4.5'		5	15'	15'	15'	14.5'	12.5'	14.5'	12'	10'	8.5'	7'
	6	15'	15'	15'	13.5'	11.5'	13.5'	11.5'	9.5'	8'	6.5'		6	15'	15'	15'	15'	15'	15'	15'	13.5'	11.5'	10'
	7	15'	15'	15'	15'	15'	15'	14'	12'	10'	8.5'		7	15'	15'	15'	15'	15'	15'	15'	15'	15'	14.5'
115 mph	2 or 3	6'	5'	3.5'	2.5'	1.5'	3.5'	2'	1.5'	0.5'	0'	115 mph	2 or 3	9'	7.5'	6'	4.5'	3.5'	5.5'	4'	3'	2'	1'
	4	10.5'	8.5'	7'	5.5'	4.5'	6.5'	5'	3.5'	2.5'	1.5'		4	15'	12.5'	10.5'	9'	7.5'	9'	7.5'	6'	4.5'	3.5'
	5	15'	12.5'	10.5'	9'	7.5'	9'	7.5'	6'	4.5'	3.5'		5	15'	15'	15'	13'	11'	13'	11'	9'	7.5'	6'
	6	15'	15'	14'	12'	10.5'	12'	10'	8.5'	7'	5.5'		6	15'	15'	15'	15'	15'	15'	14.5'	12'	10.5'	8.5'
	7	15'	15'	15'	15'	13'	15'	12.5'	10.5'	9'	7.5'		7	15'	15'	15'	15'	15'	15'	15'	15'	13'	11.5'
130 mph	2 or 3	4.5'	3'	2'	1'	0.5'	2'	1'	0.5'	0'	0'	130 mph	2 or 3	6.5'	5'	4'	3'	2'	3.5'	2.5'	1.5'	0.5'	0'
	4	7.5'	6'	5'	3.5'	2.5'	4.5'	3'	2'	1'	0.5'		4	11'	9'	7.5'	6'	5'	6.5'	5'	4'	3'	2'
	5	11'	9'	7.5'	6'	5'	6.5'	5'	4'	3'	2'		5	15'	13'	11'	9.5'	8'	9.5'	8'	6.5'	5'	4'
	6	14.5'	12'	10.5'	8.5'	7'	9'	7'	6'	4.5'	3.5'		6	15'	15'	15'	12.5'	11'	13'	10.5'	9'	7.5'	6'
	7	15'	15'	13'	11'	9.5'	11.5'	9.5'	7.5'	6'	5'		7	15'	15'	15'	15'	14'	15'	13.5'	11.5'	9.5'	8'
140 mph	2 or 3	3.5'	2.5'	1.5'	0.5'	0'	1.5'	0.5'	0'	0'	0'	140 mph	2 or 3	5.5'	4'	3'	2'	1'	2.5'	1.5'	1'	0'	0'
	4	6.5'	5'	3.5'	2.5'	1.5'	3.5'	2.5'	1.5'	0.5'	0'		4	9.5'	7.5'	6'	4.5'	3.5'	5.5'	4'	3'	2'	1'
	5	9.5'	7.5'	6'	4.5'	3.5'	5.5'	4'	3'	2'	1'		5	13'	11'	9'	7.5'	6'	8'	6.5'	5'	4'	3'
	6	12.5'	10'	8.5'	7'	5.5'	7.5'	6'	4.5'	3.5'	2.5'		6	15'	14.5'	12.5'	10.5'	9'	10.5'	8.5'	7'	5.5'	4.5'
	7	15'	13'	10.5'	9'	7.5'	9.5'	7.5'	6'	5'	3.5'		7	15'	15'	15'	13.5'	11.5'	13.5'	11'	9'	7.5'	6.5'
150 mph	2 or 3	2.5'	1.5'	0.5'	0'	0'	1'	0'	0'	0'	0'	150 mph	2 or 3	4.5'	3'	2'	1'	0.5'	2'	1'	0.5'	0'	0'
	4	5'	4'	3'	2'	1'	2.5'	1.5'	0.5'	0'	0'		4	7.5'	6'	5'	3.5'	2.5'	4.5'	3'	2'	1'	0.5'
	5	8'	6'	5'	3.5'	2.5'	4.5'	3'	2'	1'	0.5'		5	11'	9'	7.5'	6'	5'	6.5'	5'	4'	3'	2'
	6	10.5'	8.5'	7'	5.5'	4.5'	6'	4.5'	3.5'	2.5'	1.5'		6	14.5'	12.5'	10.5'	8.5'	7'	9'	7'	6'	4.5'	3.5'
	7	13'	10.5'	9'	7.5'	6'	8'	6'	5'	3.5'	2.5'		7	15'	15'	13'	11'	9.5'	11.5'	9.5'	7.5'	6'	5'
170 mph	2 or 3	1.5'	0.5'	0'	0'	0'	0'	0'	0'	0'	0'	170 mph	2 or 3	3'	2'	1'	0'	0'	1'	0'	0'	0'	0'
	4	3.5'	2.5'	1.5'	0.5'	0'	1.5'	0.5'	0'	0'	0'		4	5.5'	4'	3'	2'	1'	3'	2'	1'	0'	0'
	5	5.5'	4'	3'	2'	1'	3'	2'	1'	0'	0'		5	8'	6.5'	5'	4'	3'	4.5'	3.5'	2.5'	1.5'	0.5'
	6	7.5'	6'	4.5'	3.5'	2.5'	4'	3'	2'	1'	0'		6	11'	9'	7.5'	6'	4.5'	6.5'	5'	3.5'	2.5'	1.5'
	7	9.5'	7.5'	6'	5'	4'	5.5'	4'	3'	2'	1'		7	13.5'	11.5'	9.5'	8'	6.5'	8'	6.5'	5'	4'	3'

Moment Frame A: Detail L26, 4 screws, A=5", B= 7", sideplates = 0.024"
 Moment Frame A: Detail L12, 4 screws, A=2", B= 5", DBL HEADER
 Moment Frame B: Detail L26, 4 screws, A=5", B= 7", sideplates = 0.032"
 Moment Frame B: Detail L26, 6 screws, A=5", B= 7", sideplates = 0.024"
 Moment Frame C: Detail L26, 8 screws, A=5", B= 7", sideplates = 0.024"
 Moment Frame C: Detail L12, 4 screws, A=2", B= 7", DBL HEADER
 Moment Frame C: Detail L12, 6 screws, A=2", B= 5", DBL HEADER
 Moment Frame C: Detail L8, 4 BOLTS, A=2", B= 7", SINGLE STEEL C
 Moment Frame D: Detail L8, 4 BOLTS, A=2", B= 5", DBL STEEL C

Tables L1 and L2 need to be checked for surface mount concrete attachment

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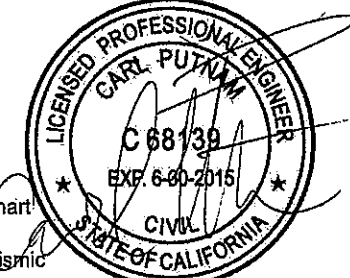
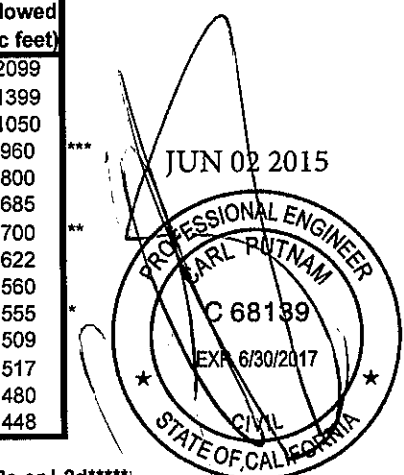
 Carl Putnam, P. E.
 3441 Ivylink Place
 Lynchburg, VA 24503

Seismic Size Requirements			
Table L2a Moment Frame A		Table L2b Moment Frame B	
Ss	Size Allowed (cubic feet)	Ss	Size Allowed (cubic feet)
20%	1575	20%	2099
30%	1050	30%	1399
40%	788	40%	1050
50%	720	50%	960
60%	600	60%	800
70%	514	70%	685
80%	525	80%	700
90%	467	90%	622
100%	420	100%	560
110%	417	110%	555
120%	382	120%	509
130%	388	130%	517
140%	360	140%	480
150%	336	150%	448

Directions for using Seismic Table L2a, L2b, L2c or L2d*****

- Determine Tributary width
- Determine width of structure
- Determine height of structure
- Determine number of posts structure has
- Determine Ss for your area (contact your local building department)****
- Choose Table L2a-d based on the header
- Determine the maximum size allowed on the chart
- Multiply #1, #2 and #3 and divide by #4*****
- If #8 is lower than #7 the structure is OK for seismic
- If your Ss is over 150% use 150%

*no check needed for Patio Covers attached to slab under these conditions
 **no check needed for Patio Covers that are 10' tall attached to slab under these conditions
 ***no check needed for Patio Covers that are 8' tall attached to slab under these conditions
 ****Ss is the Maximum Considered Earthquake Ground Motion (0.2 sec) mapped on Figure 1613.3.1(1) in the 2012 IBC
 ***** Alternatively, divide by these numbers
 For 2 post Structures divide by 3
 For 3 post Structures divide by 3
 For 4 post Structures divide by 4.5
 For 5 post Structures divide by 6
 For all others add 1.5 to number of posts
 ***** Not for use in areas with flat roof snow loads exceeds 30 psf.



7.0 Requirements for Surface Mounted Posts on Concrete Slabs or Footings for Sigle Span Attached Lattice Structures

REQUIRED NUMBER OF POSTS FOR SINGLE SPAN LATTICE UNITS WITH SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS																					
Table L1c: Use this table for the following headers Moment Frame C = 536 lbf*ft							Table L1d: Use this table for the following headers Moment Frame D = 793 lbf*ft														
Wind Speed	Required Number of Posts	Post Height (ft)																			
		Wind Exposure B					Wind Exposure C														
		8'	9'	10'	11'	12'	8'	9'	10'	11'	12'										
MAXIMUM TRIBUTARY WIDTH ALLOWED																					
110 mph	2 or 3	11.5'	9.5'	8'	6.5'	5'	7'	5.5'	4'	3'	2'	15'	15'	13'	11'	9.5'	11.5'	9.5'	7.5'	6'	5'
	4	15'	15'	13.5'	11.5'	9.5'	11.5'	9.5'	8'	6.5'	5'	15'	15'	15'	15'	15'	15'	15'	15'	15'	14'
	5	15'	15'	15'	15'	14.5'	15'	13.5'	11.5'	10'	8'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
	6	15'	15'	15'	15'	15'	15'	15'	15'	13'	11.5'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
	7	15'	15'	15'	15'	15'	15'	15'	15'	15'	14.5'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
115 mph	2 or 3	10.5'	8.5'	7'	5.5'	4.5'	6'	4.5'	3.5'	2.5'	1.5'	15'	14'	11.5'	10'	8.5'	10'	8.5'	6.5'	5.5'	4'
	4	15'	14'	12'	10'	8.5'	10.5'	8.5'	7'	5.5'	4.5'	15'	15'	15'	15'	14.5'	15'	14'	12'	10'	8.5'
	5	15'	15'	15'	14.5'	12.5'	14.5'	12.5'	10.5'	8.5'	7'	15'	15'	15'	15'	15'	15'	15'	15'	14.5'	12.5'
	6	15'	15'	15'	15'	15'	15'	15'	13.5'	11.5'	10'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
	7	15'	15'	15'	15'	15'	15'	15'	15'	15'	13'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
130 mph	2 or 3	7.5'	6'	4.5'	3.5'	2.5'	4'	3'	2'	1'	0'	12.5'	10'	8.5'	7'	5.5'	7.5'	6'	4.5'	3.5'	2.5'
	4	12.5'	10.5'	8.5'	7'	5.5'	7.5'	6'	4.5'	3.5'	2.5'	15'	15'	14.5'	12.5'	10.5'	12.5'	10.5'	8.5'	7'	5.5'
	5	15'	15'	12.5'	10.5'	9'	11'	9'	7.5'	6'	4.5'	15'	15'	15'	15'	15'	15'	14.5'	12.5'	10.5'	9'
	6	15'	15'	15'	14.5'	12.5'	14.5'	12'	10'	8.5'	7'	15'	15'	15'	15'	15'	15'	15'	15'	14'	12'
	7	15'	15'	15'	15'	15'	15'	15'	12.5'	11'	9'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
140 mph	2 or 3	6'	4.5'	3.5'	2.5'	1.5'	3'	2'	1'	0.5'	0'	10'	8.5'	7'	5.5'	4'	6'	4.5'	3.5'	2.5'	1.5'
	4	10.5'	8.5'	7'	5.5'	4.5'	6'	4.5'	3.5'	2.5'	1.5'	15'	14'	12'	10'	8.5'	10.5'	8.5'	7'	5.5'	4.5'
	5	15'	12.5'	10.5'	8.5'	7'	9'	7.5'	6'	4.5'	3.5'	15'	15'	15'	14.5'	12.5'	14.5'	12'	10.5'	8.5'	7'
	6	15'	15'	14'	12'	10'	12'	10'	8'	6.5'	5.5'	15'	15'	15'	15'	15'	15'	15'	13.5'	11.5'	10'
	7	15'	15'	15'	15'	13'	15'	12.5'	10.5'	9'	7.5'	15'	15'	15'	15'	15'	15'	15'	15'	15'	13'
150 mph	2 or 3	5'	3.5'	2.5'	1.5'	1'	2.5'	1.5'	0.5'	0'	0'	8.5'	7'	5.5'	4'	3'	5'	3.5'	2.5'	1.5'	0.5'
	4	8.5'	7'	5.5'	4.5'	3.5'	5'	3.5'	2.5'	1.5'	1'	14'	12'	10'	8.5'	7'	8.5'	7'	5.5'	4.5'	3'
	5	12.5'	10.5'	8.5'	7'	5.5'	7.5'	6'	4.5'	3.5'	2.5'	15'	15'	14.5'	12.5'	10.5'	12.5'	10.5'	8.5'	7'	5.5'
	6	15'	13.5'	11.5'	10'	8'	10'	8'	6.5'	5.5'	4'	15'	15'	15'	15'	14'	15'	13.5'	11.5'	9.5'	8'
	7	15'	15'	14.5'	12.5'	10.5'	12.5'	10.5'	8.5'	7'	6'	15'	15'	15'	15'	15'	15'	15'	14.5'	12.5'	10.5'
170 mph	2 or 3	3.5'	2'	1.5'	0.5'	0'	1.5'	0.5'	0'	0'	0'	6'	4.5'	3.5'	2.5'	1.5'	3'	2'	1'	0.5'	0'
	4	6'	5'	3.5'	2.5'	1.5'	3.5'	2'	1.5'	0.5'	0'	10.5'	8.5'	7'	5.5'	4.5'	6'	5'	3.5'	2.5'	1.5'
	5	9'	7.5'	6'	4.5'	3.5'	5.5'	4'	3'	2'	1'	15'	12.5'	10.5'	8.5'	7.5'	9'	7.5'	6'	4.5'	3.5'
	6	12'	10'	8.5'	7'	5.5'	7.5'	5.5'	4.5'	3.5'	2.5'	15'	15'	14'	12'	10'	12'	10'	8'	6.5'	5.5'
	7	15'	12.5'	10.5'	9'	7.5'	9'	7.5'	6'	4.5'	3.5'	15'	15'	15'	15'	13'	15'	12.5'	10.5'	9'	7.5'

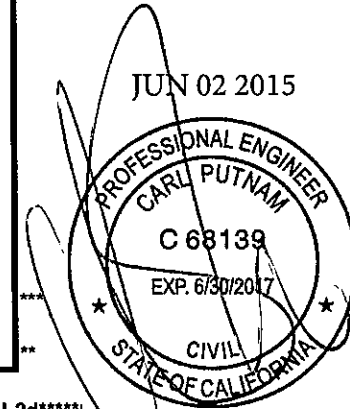
Moment Frame A: Detail L26, 4 screws, A=5", B= 7", sideplates = 0.024"
 Moment Frame A: Detail L12, 4 screws, A=2", B= 5", DBL HEADER
 Moment Frame B: Detail L26, 4 screws, A=5", B= 7", sideplates = 0.032"
 Moment Frame B: Detail L26, 6 screws, A=5", B= 7", sideplates = 0.024"
 Moment Frame C: Detail L26, 8 screws, A=5", B= 7", sideplates = 0.024"
 Moment Frame C: Detail L12, 4 screws, A=2", B= 7", DBL HEADER
 Moment Frame C: Detail L12, 6 screws, A=2", B= 5", DBL HEADER
 Moment Frame C: Detail L8, 4 BOLTS, A=2", B= 7", SINGLE STEEL C
 Moment Frame D: Detail L8, 4 BOLTS, A=2", B= 5", DBL STEEL C

Tables L1 and L2 need to be checked for surface mount concrete attachment

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Seismic Size Requirements		
Table L2c Moment Frame C		Table L2d Moment Frame D
Ss	Size Allowed (cubic feet)	Ss
20%	2301	20%
30%	1534	30%
40%	1150	40%
50%	1052	50%
60%	877	60%
70%	751	70%
80%	767	80%
90%	682	90%
100%	614	100%
110%	608	110%
120%	558	120%
130%	566	130%
140%	526	140%
150%	491	150%



Directions for using Seismic Table L2a, L2b, L2c or L2d*****

- Determine Tributary width
- Determine width of structure
- Determine height of structure
- Determine number of posts structure has
- Determine Ss for your area (contact your local building department)****
- Choose Table L2a-d based on the header
- Determine the maximum size allowed on the chart
- Multiply #1, #2 and #3 and divide by #4*****
- If #8 is lower than #7 the structure is OK for seismic
- If your Ss is over 150% use 150%

*no check needed for Patio Covers attached to slab under these conditions
 **no check needed for Patio Covers that are 10' tall attached to slab under these condition
 ***no check needed for Patio Covers that are 8' tall attached to slab under these conditions
 ****Ss is the Maximum Considered Earthquake Ground Motion (0.2 sec) mapped on Figure 1613.3.1(1) in the 2012 IBC
 ***** Alternatively, divide by these numbers
 For 2 post Structures divide by 3
 For 3 post Structures divide by 3
 For 4 post Structures divide by 4.5
 For 5 post Structures divide by 6
 For all others add 1.5 to number of posts
 ***** Not for use in areas with flat roof snow loads exceeds 30 psf.

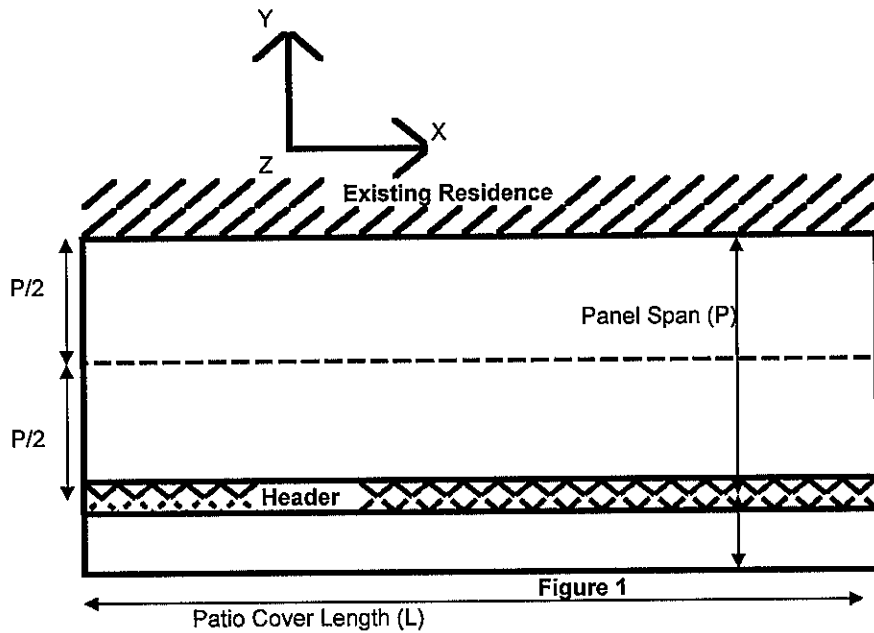


Figure 1

Determine Snow Loads on Existing Structure

- 1 Determine Roof Snow/Live Load, S. See General Note 3.
- 2 Dead Load = 1 psf
- 3 Add Dead and Live/Snow Loads, multiply by half of Panel Span
 $Wall Load = (D + S) P / 2$
- 4 Result is wall load in pounds per linear foot.

Determine Wind Loads on Existing Structure

- 1 Determine Wind Load, W+ or W-. See Table 1
- 2 Dead Load included in Down and Up loads
- 3 Multiply W+ or W- by half of Panel Span
 $Wall Load = W P / 2$
- 4 Result is wall load in pounds per linear foot.
- 5 Maximum Shear Load in X direction is 454 lbf (110 mph Exposure C, 13' Panel Span)
 Max load in Y direction (towards house) is 73 plf (110 mph Exp C, 10" I beam)
 Max load in Y direction due to force couple resisting lateral is 104 plf (110 mph Exp C, Projection = Width)

Determine Seismic Loads on Existing Structure (Excludes Roof Snow Load over 30 psf)

- 1 Vertical Loads and Horizontal Loads = maximum of 1 psf

Combination Loads based on Equation 16-11

- 1 Determine Combination Load, C. See Table 2
- 3 Multiply C by half of Panel Span
 $Wall Load = C P / 2$
- 4 Result is wall load in pounds per linear foot.

Kz	0.7	0.98	height factor, Exposure B and C
Kzt	1		Topographic factor
Kd	0.85		Wind Directionality factor
I	1		Importance Factor
G	0.85		Gust Factor
Cnet	1.2		Net Pressure Coefficient
Dead	1		psf

Wind Speed (mph)	Exposure	qh (psf)	C&C (psf)	Design	Design
				Down Load (psf) W+	Up Load (psf) W-
110	B	18.4	11.3	12.3	10.7
115	B	20.1	12.3	13.3	11.7
130	B	25.7	15.8	16.8	15.2
135	B	27.8	17.0	18.0	16.4
140	B	29.9	18.3	19.3	17.7
140	C	41.8	25.6	26.6	25.0
150	C	48.0	29.4	30.4	28.8
170	C	61.6	37.7	38.7	37.1
175	C	65.3	40.0	41.0	39.4
180	C	69.1	42.3	43.3	41.7

TABLE 1

Combination Loads: Snow + Wind + Dead Loads								
Wind Speed (mph)	Exposure	Wind Load (psf)	Live Loads (psf)		Ground Snow Loads (psf)			
			10	20	25	30	40	60
Roof Live /Snow Loads + Dead			11	21	22	26.2	34.6	51.4
110	B	11.3	17.0	24.5	25.2	28.4	34.7	47.3
115	B	12.3	17.7	25.2	26.0	29.1	35.4	48.0
130	B	15.8	20.3	27.8	28.6	31.7	38.0	50.6
135	B	17.0	21.2	28.7	29.5	32.6	38.9	51.5
140	B	18.3	22.2	29.7	30.5	33.6	39.9	52.5
140	C	25.6	27.7	35.2	35.9	39.1	45.4	58.0
150	C	29.4	30.5	38.0	38.8	41.9	48.2	60.8
170	C	37.7	36.8	44.3	45.0	48.2	54.5	67.1
175	C	40.0	38.5	46.0	46.7	49.9	56.2	68.8
180	C	42.3	40.2	47.7	48.5	51.6	57.9	70.5

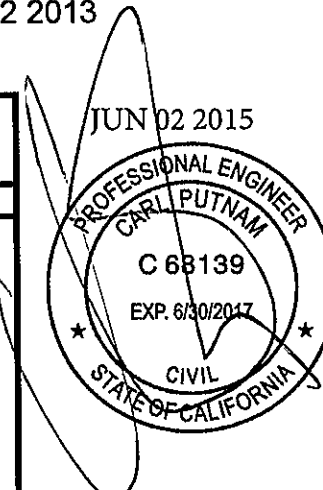
TABLE 2

Amerimax Exterior Home Products
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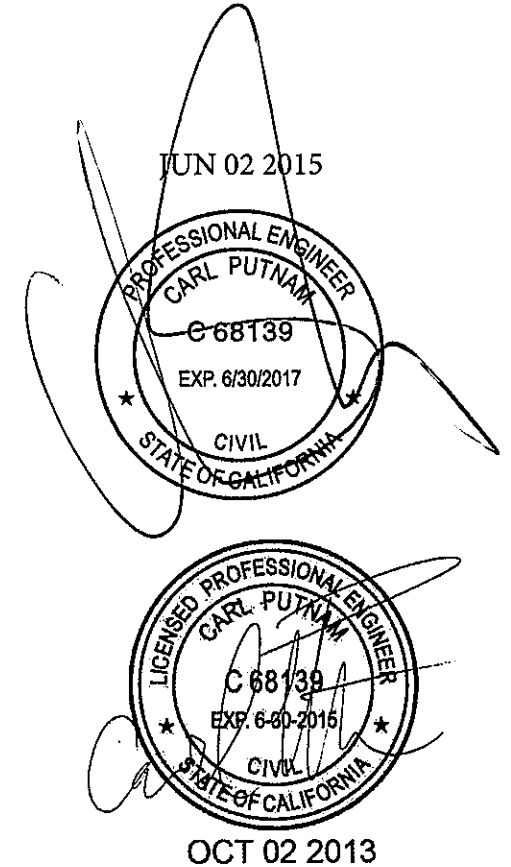


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Amerimax Structural Properties of Beams, Fascia, Panels and Rafters for Use by Design Professionals

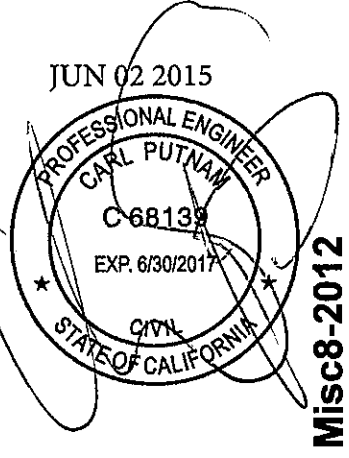
ASSUMES FULL LATERAL BRACING
 Max Allowable Moment (top in compression) (lbf*ft)
 Max Allowable Moment (bottom in compression) (lbf*ft)

Structural Element	I (in^4) top in compression	I (in^4) bottom 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"x6.625" Aluminum Rafter	2.283	same	298	278	166	3004H34	10100	32	25	22
0.032"x2"x6.625" Aluminum Rafter	3.072	same	563	504	398	3004H34	10100	32	25	22
0.040"x2"x6.625" Aluminum Rafter	3.873	same	866	801	784	3004H34	10100	32	25	22
0.042"x3"x8" Aluminum Rafter	7.907	same	1164	1038	747	3004H34	10100	32	25	22
0.024"x3"x3" Aluminum Rafter	0.445	same	130	124	380	3105H25	10100	23	19	17
0.040"x3"x3" Aluminum Rafter	0.754	same	389	343	1506	3105H25	10100	23	19	17
Solid Panels										
0.018"x2.5"x6" Aluminum Panel	0.265	same	138	109	779	3004H36	10100	35	28	25
0.024"x2.5"x6" Aluminum Panel	0.353	same	253	169	927	3004H34	10100	32	25	22
0.032"x2.5"x6" Aluminum Panel	0.471	same	385	253	1236	3004H34	10100	32	25	22
0.036"x2.5"x6" Aluminum Panel	0.53	same	439	301	1391	3004H34	10100	32	25	22
0.018"x3.5"x12" Aluminum Panel	0.545	same	316	352	450	3004H36	10100	35	28	25
0.024"x3.5"x12" Aluminum Panel	0.727	same	409	473	536	3004H34	10100	32	25	22
0.032"x3.5"x12" Aluminum Panel	0.969	same	568	692	715	3004H34	10100	32	25	22
0.036"x3.5"x12" Aluminum Panel	1.09	same	652	808	804	3004H34	10100	32	25	22
0.018"x2.5"x12" Aluminum Panel	0.25	same	184	141	246	3004H36	10100	35	28	25
0.024"x2.5"x12" Aluminum Panel	0.334	same	315	241	584	3004H36	10100	35	28	25
0.032"x2.5"x12" Aluminum Panel	0.445	same	484	371	1384	3004H36	10100	35	28	25
0.036"x2.5"x12" Aluminum Panel	0.501	same	511	392	1970	3004H34	10100	32	25	22
0.018"x2"x6" Aluminum Panel	0.154	same	133	150	528	3004H36	10100	35	28	25
0.024"x2"x6" Aluminum Panel	0.205	same	196	207	629	3004H34	10100	32	25	22
0.032"x2"x6" Aluminum Panel	0.273	same	294	318	838	3004H34	10100	32	25	22
0.036"x2"x6" Aluminum Panel	0.307	same	333	382	943	3004H34	10100	32	25	22
Aluminum Headers										
0.042"x3"x8" Aluminum Header	7.907	same	1164	1038	747	3004H34	10100	32	25	22
Double 0.042"x3"x8" Aluminum Header	15.814	same	2328	2076	1494	3004H34	10100	32	25	22
Double 0.040"x2"x6.625" Aluminum Header	7.746	same	1732	1602	1568	3004H34	10100	32	25	22
Aluminum Fascia										
California Extruded Fascia	3.09	same	1160	1536	5478	6063T6	10100	30	25	25
Classic Extruded Fascia	6.03	same	3089	3842	13837	6061T6	10100	38	35	35
5.5" Extruded Fascia	3.46	same	1564	1538	3414	6105T5	10100	38	35	35
Alaskan Fascia	3.95	same	2349	1905	4963	6105T5	10100	38	35	35
4"x3" Ibeam	3.617	same	2445	2580	2106	6063T6	10100	30	25	25
7"x4" Ibeam	13.857	same	6718	6718	4244	6105T5	10100	38	35	35
Steel Headers										
0.041"x3"x3" Steel Cloverleaf	0.77	same	1028	1028	6694	ASTM A653 Grade 40	29000	55	40	
Double 0.041"x3"x3" Steel Cloverleaf	1.54	same	2056	2056	13388	ASTM A653 Grade 40	29000	55	40	
12 Gauge Steel C Beam	13.28	same	8549	8549	11504	ASTM A653 Grade 50	29000	65	50	
16 Gauge Steel C Beam	7.46	same	4805	4805	2394	ASTM A653 Grade 50	29000	65	50	
Double 12 Gauge Steel C Beam	26.56	same	17098	17098	23008	ASTM A653 Grade 50	29000	65	50	
Double 16 Gauge Steel C Beam	14.92	same	9610	9610	4788	ASTM A653 Grade 50	29000	65	50	

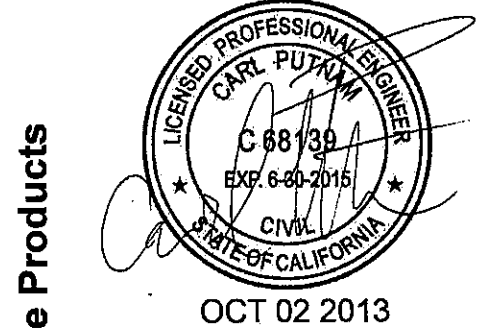


Misc7-2012

CONSTRAINED FOOTING SIZE d (IN)	REQUIRED SLAB AREA PER POST (SQUARE FEET)			
	3.5"	5.5"	7.25"	9.25"
20	26	17	13	10
21	31	20	15	12
22	36	23	17	14
23	41	26	20	16
24	47	30	23	18
25	54	34	26	20
26	61	39	30	23
27	70	44	34	26
28	78	50	38	30
29	88	56	42	33
30	98	63	48	37
31	110	70	53	41
32	122	78	59	46
33	135	86	65	51
34	149	95	72	56
35	164	104	79	62
36	180	115	87	68
37	198	126	95	75
38	216	137	104	82
39	236	150	114	89
40	257	163	124	97
41	279	178	135	106
42	303	193	146	114
43	328	208	158	124
44	354	225	171	134
45	382	243	185	145
46	412	262	199	156
47	443	282	214	168
48	476	303	230	180
49	511	325	247	193
50	547	348	264	207



Misc8-2012



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