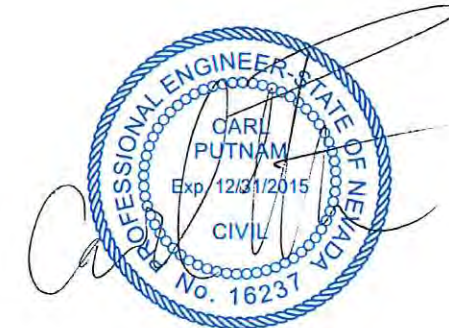


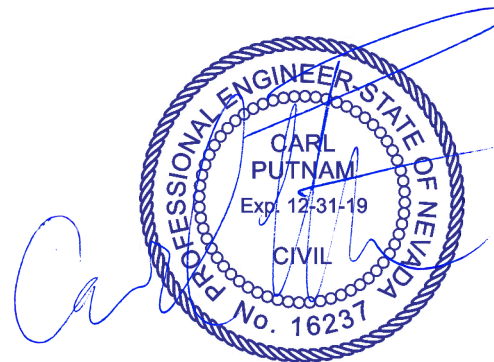
Amerimax Exterior Home Products Alumawood™ Patio Cover, Carport and Commercial Structure Engineering 2012 IBC

PAGES	DRAWING	SECTION DESCRIPTION
2 PAGES	GN01-2012 GN02-2012	GENERAL NOTES
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4 PAGES		LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
<del>4 PAGES</del>	<del></del>	<del>LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS</del>
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
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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
3 PAGES		Foam core Panel Spans



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September 29, 2013



GENERAL NOTES:

1. DESIGNED IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.
2. ALUMINUM DESIGN IN ACCORDANCE WITH THE 2010 EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE INTERNATIONAL BUILDING CODE.
3. 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 < 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 >>  $R = 1.25$   
 POSTS SURFACE MOUNTED = GENERIC SYSTEM >>  $R = 1.25$   
 ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

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

THE BASIS OF THE DESIGN FORCES ARE IN ACCORDANCE WITH THE BASIC LOAD COMBINATIONS DESCRIBED IN IBC SECTION 1605.3.1.1 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:
  - a. GENERAL NOTES (2 PAGES)
  - b. STRUCTURAL CONFIGURATIONS (1 OR 2 PAGES)
  - c. RAFTER SPAN TABLES (FOR LATTICE STRUCTURES), PANEL SPAN TABLES FOR SOLID COVER STRUCTURES) OR BOTH (FOR COMBINATION STRUCTURES)
  - d. HEADER POST SPACING, FOOTING SIZE AND POST TABLE FOR LIVE/SNOW AND WIND LOAD
  - e. ALL APPROPRIATE DETAILS
  - f. OTHER DOCUMENTATION REQUIRED BY LOCAL BUILDING AUTHORITY.

5. CONCRETE MIX:  $F_c = 2500, 3000$  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.

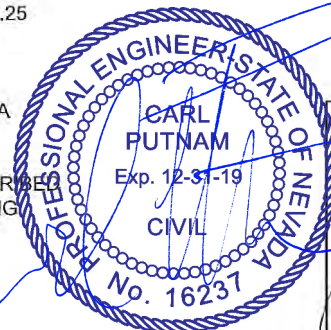
6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL AS PER TABLE 1806.2. ALLOWABLE FOUNDATION PRESSURE IS 1500 POUNDS PER SQUARE FOOT. LATERAL BEARING PRESSURE IS 100 PSF/FT AND IS DOUBLED PER IBC SECTION 1806.3.4. THESE DESIGN VALUES DO NOT APPLY TO MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT OR UNPREPARED 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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SCALE:	NONE
DATE:	
DRAWING OR PART NAME:	GENERAL NOTES
DRAWING OR PART NUMBER:	GN01-2012
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 = 5/16", #10 = 3/8", #12 = 13/32" AND #14 = 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.

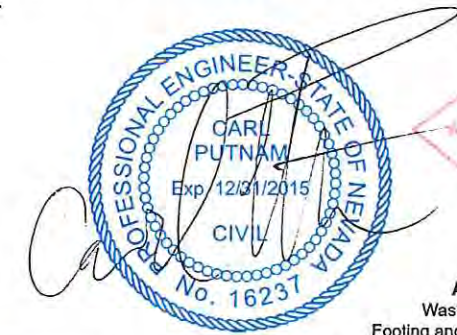
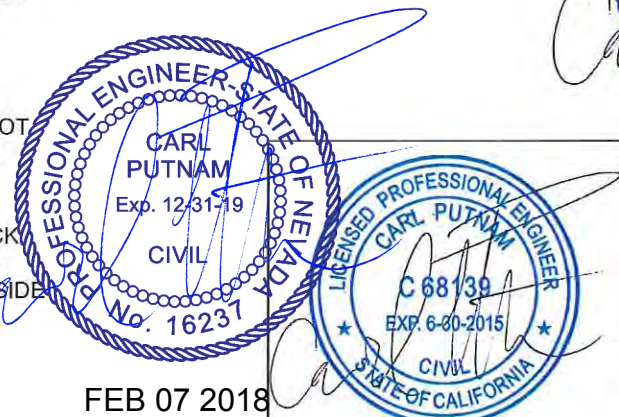
23. WOOD USED IN CONNECTIONS SHALL BE PROTECTED FROM WEATHER AS PER IBC SECTION 1403.2 (WALLS) AND/OR 1503 (ROOFS), WHICHEVER IS MORE APPROPRIATE.

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.

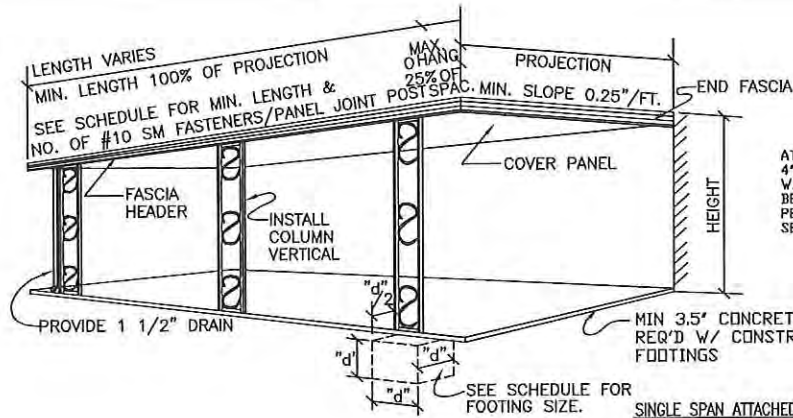


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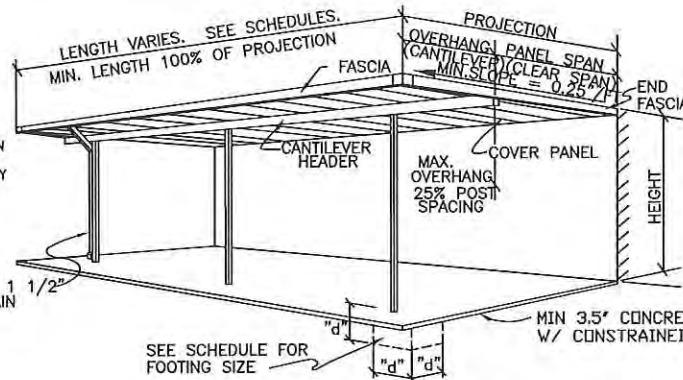
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DRAWN BY: CMP	DRAWING OR PART NAME: GENERAL NOTES	SHEET 2 OF 2
SCALE: NONE	DRAWING OR PART NUMBER: GN02-2012	
DATE:		

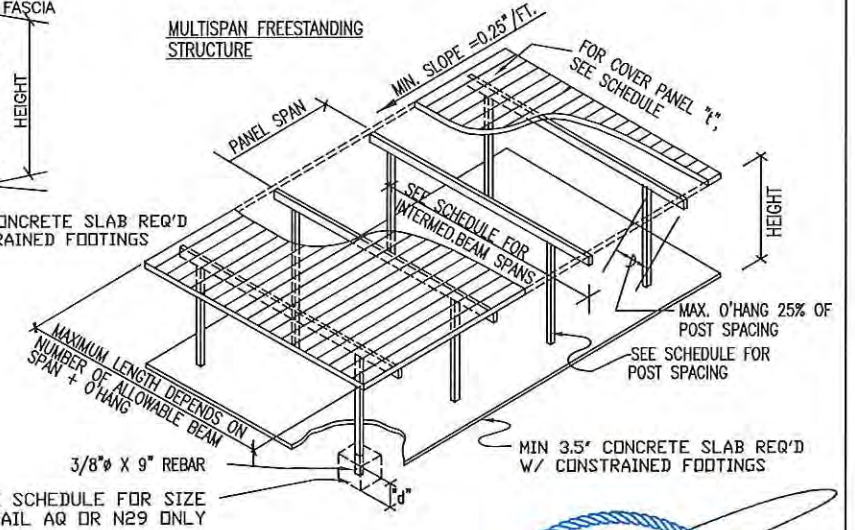


SINGLE SPAN ATTACHED STRUCTURE

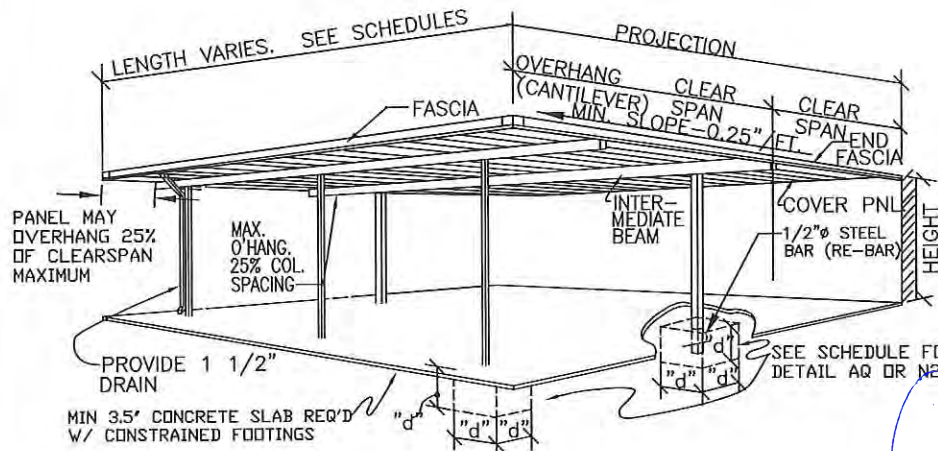


SINGLE SPAN ATTACHED CANTILEVERED STRUCTURE

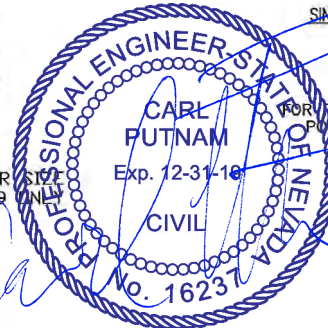
NOTE: SEE SCHEDULE FOR POSTS, ALL POSTS TO BE INSTALLED VERTICALLY. MAY HAVE MORE THAN 2 POSTS (PER INTERMEDIATE BEAM).



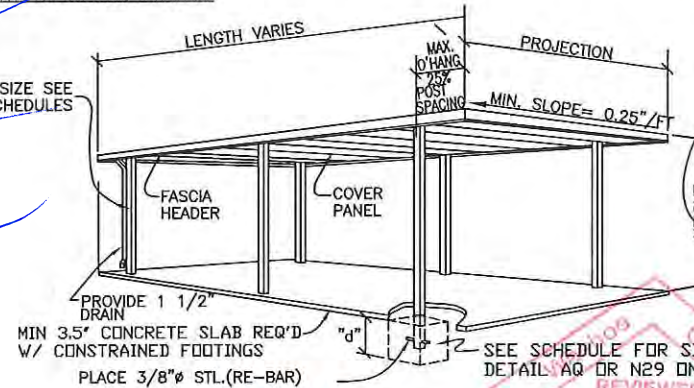
SINGLE SPAN FREESTANDING STRUCTURE



MULTISPAN ATTACHED CANTILEVERED STRUCTURE



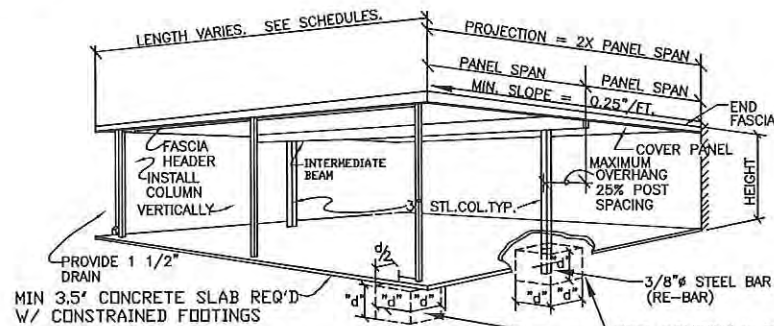
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PATIO COVERS ARE LIMITED TO 12' HEIGHT. CARPORTS AND COMMERCIAL STRUCTURES ARE LIMITED TO 15' HEIGHT.



MULTISPAN ATTACHED STRUCTURE

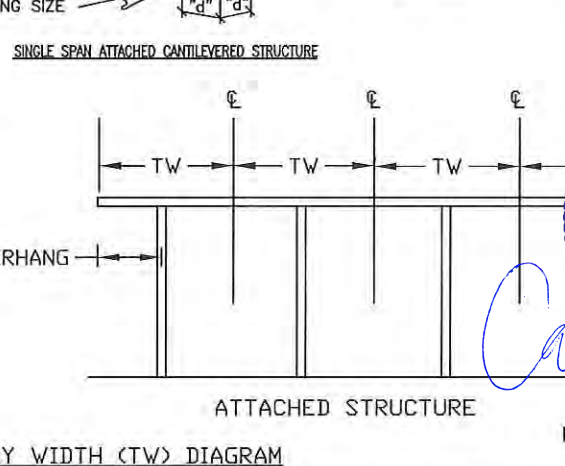
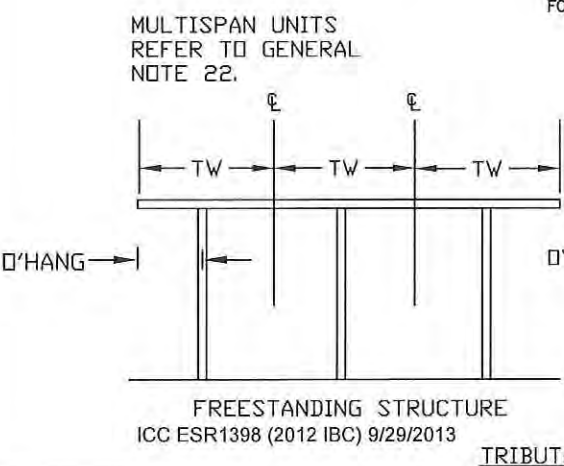
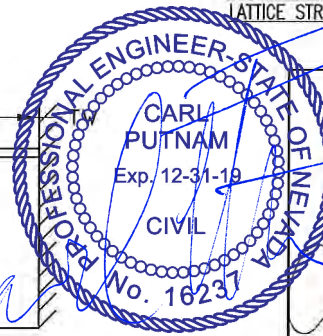
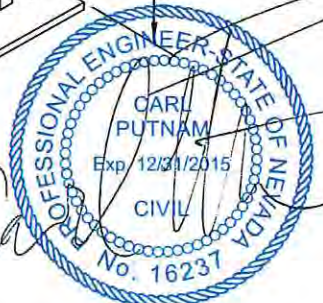
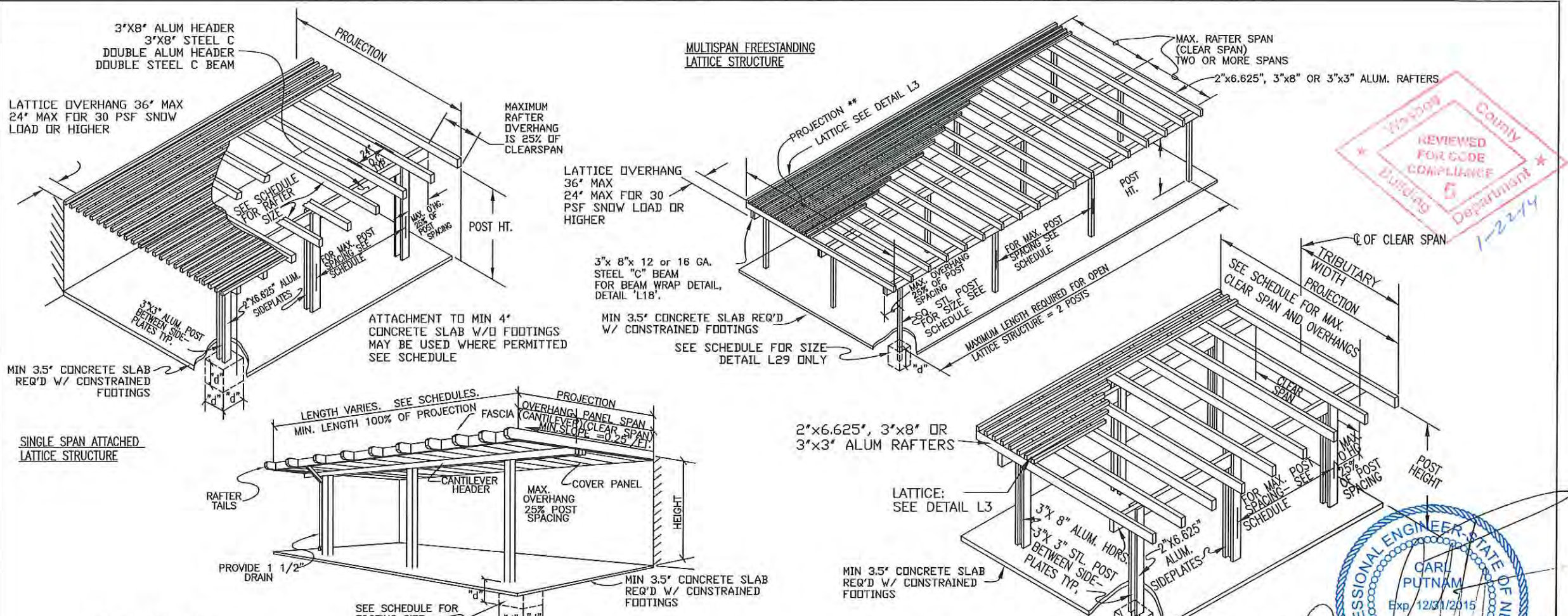


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SCALE: NONE	DRAWING OR PART NUMBER: SC01-2012	
DATE:		



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**Page 5 of 66**

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DRAWN BY: CMP	DRAWING OR PART NAME: ALUMAWOOD STRUCTURAL CONFIGURATIONS	SHEET: 2 OF 2
SCALE: NONE	DRAWING OR PART NUMBER: SC02-2012	
DATE:		

LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES

0.024"x2"x6.625" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	24"	8'-4"	7'-2"	6'-7" 5'-6"

0.032"x2"x6.625" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	24"	12'-4"	11'-4"	10'-5" 9'-0"

0.040"x2"x6.625" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	24"	16'-4"	14'-4"	13'-6" 12'-1"

0.042"x3"x8" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	36"	14'-7"	12'-5"	12'-4" 10'-8"

30	24"	3'-5"	4'-2"	5'-2" 6'-10"
40	24"	2'-7"	3'-1"	3'-10" 5'-2"
60	24"	1'-9"	2'-1"	2'-7" 3'-5"

TABLE 1.10

30	24"	5'-11"	7'-1"	8'-10" 11'-9"
40	24"	4'-5"	5'-4"	6'-8" 8'-10"
60	24"	3'-0"	3'-7"	4'-5" 5'-11"

TABLE 1.11

30	24"	8'-11"	10'-8"	13'-4" 16'-3" 16'-3"
40	24"	6'-9"	8'-1"	10'-0" 13'-4" 13'-4"
60	24"	4'-6"	5'-5"	6'-9" 8'-11" 8'-11" 8'-11"

TABLE 1.12

30	36"	6'-6"	7'-4"	9'-9" 14'-5" 14'-5"
40	36"	4'-11"	5'-6"	7'-4" 10'-11" 10'-11"
60	36"	3'-3"	3'-8"	4'-11" 7'-4" 7'-4"

TABLE 1.13

0.024"x2"x6.625" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	24"	6'-9"	6'-9"	6'-7" 5'-5"

0.032"x2"x6.625" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	24"	10'-3"	10'-3"	10'-3" 9'-0"

0.040"x2"x6.625" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	24"	13'-9"	13'-9"	13'-9" 12'-1"

0.042"x3"x8" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C		
		130	140	150 170
10	36"	11'-8"	11'-8"	11'-8" 10'-8"

30	24"	3'-1"	3'-8"	4'-5" 5'-8"
40	24"	2'-5"	2'-10"	3'-6" 4'-5"
60	24"	1'-7"	1'-11"	2'-5" 3'-1"

TABLE 1.15

30	24"	5'-0"	5'-10"	7'-0" 8'-8"
40	24"	3'-11"	4'-7"	5'-7" 7'-0"
60	24"	2'-9"	3'-3"	3'-11" 5'-0"

TABLE 1.16

30	24"	7'-1"	8'-2"	9'-8" 11'-10"
40	24"	5'-8"	6'-7"	7'-10" 9'-8"
60	24"	4'-0"	4'-8"	5'-8" 7'-1"

TABLE 1.17

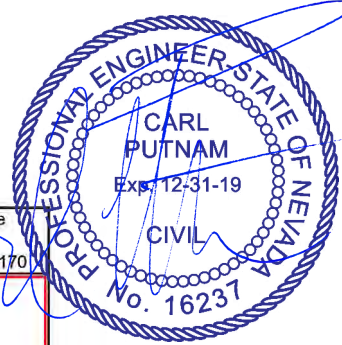
30	36"	5'-8"	6'-3"	7'-11" 10'-9"
40	36"	4'-5"	4'-10"	6'-3" 8'-8"
60	36"	3'-0"	3'-5"	4'-5" 6'-3"

TABLE 1.18

3"x3" Rafter @6" o/c (Multispan or Single)

Ground Snow Load (psf)	Rafter Gauge (in)	Wind Speed and Exposure C		
		130	140	150 170
25	0.024"	8'-2"	14'-6"	
30	0.024"	7'-4"	13'-1"	
40	0.024"	6'-1"	11'-2"	
60	0.024"	4'-8"	8'-10"	

TABLE 1.14

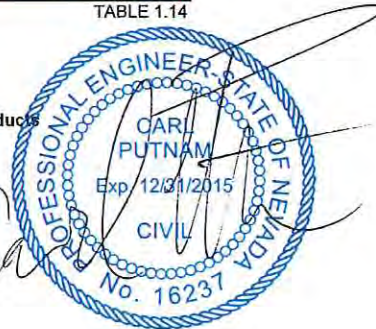


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NOTE: RAFTERS MAY OVERHANG 25% OF THEIR CLEARSPAN

Amerimax Exterior Home Products  
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LATTICE 1.0 DOUBLE RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES (REQUIRES THE USE OF DETAIL L31 OR L32)

0.024"x2"x6.625" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	48"	8'-1"	7'-3"	6'-7"	6'-5"
30	48"	5'-2"	4'-6"	4'-0"	3'-8"
40	48"	3'-11"	2'-11"	2'-7"	2'-5"
60	48"	2'-7"	2'-11"	2'-7"	2'-5"

TABLE 1.29

0.032"x2"x6.625" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	48"	12'-4"	11'-4"	10'-5"	9'-0"
30	48"	9'-4"	8'-3"	7'-3"	6'-3"
40	48"	8'-1"	7'-0"	6'-0"	5'-11"
60	48"	6'-3"	5'-3"	4'-3"	3'-3"

TABLE 1.30

0.040"x2"x6.625" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	48"	16'-4"	14'-4"	13'-10"	12'-4"
30	48"	11'-7"	10'-1"	9'-0"	8'-1"
40	48"	10'-1"	8'-10"	7'-11"	7'-0"
60	48"	8'-3"	7'-3"	6'-3"	5'-11"

TABLE 1.31

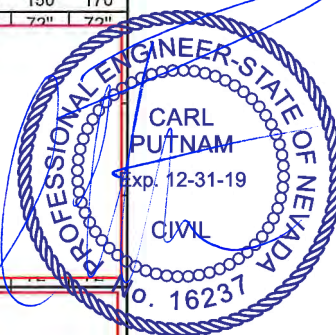
0.042"x3"x8" Rafter (Single Span)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	72"	14'-7"	13'-5"	12'-4"	10'-8"
30	72"	11'-0"	9'-6"	8'-3"	7'-9"
40	72"	9'-6"	8'-1"	7'-9"	7'-0"
60	72"	7'-9"	6'-3"	5'-11"	5'-11"

TABLE 1.32

Lattice Tubes

Ground Snow Load (psf)	Lattice Size (in)	Wind Speed and Exposure C			
		130	140	150	170
10	1.5"	72"	72"	72"	72"
30	1.5"	65"	62"	62"	62"
40	1.5"	55"	52"	52"	52"
60	1.5"	43"	39"	39"	39"



FEB 07 2018

NOTE: THESE TABLES REQUIRE THE USE OF DETAIL L31 OR L32

0.024"x2"x6.625" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	48"	8'-1"	7'-3"	6'-7"	6'-5"
30	48"	4'-6"	4'-0"	3'-8"	3'-6"
40	48"	3'-7"	3'-2"	2'-11"	2'-9"
60	48"	2'-6"	2'-11"	2'-7"	2'-5"

ICC ESR1398 (2012 IBC) 1/29/13

0.032"x2"x6.625" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	48"	12'-4"	11'-4"	10'-5"	9'-0"
30	48"	7'-10"	6'-8"	5'-8"	4'-11"
40	48"	6'-6"	5'-4"	4'-4"	3'-7"
60	48"	4'-11"	3'-7"	2'-11"	2'-5"

TABLE 1.34

0.040"x2"x6.625" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	48"	16'-4"	14'-4"	13'-10"	12'-4"
30	48"	10'-7"	9'-0"	8'-1"	7'-0"
40	48"	9'-0"	7'-4"	6'-4"	5'-11"
60	48"	7'-2"	5'-7"	4'-6"	3'-7"

Page 9 of 66 TABLE 1.35

0.042"x3"x8" Rafter (Multispan)

Ground Snow Load (psf)	Rafter Spacing (in)	Wind Speed and Exposure C			
		130	140	150	170
10	72"	14'-7"	13'-5"	12'-4"	10'-8"
30	72"	9'-3"	8'-11"	7'-9"	7'-0"
40	72"	7'-9"	6'-4"	5'-11"	5'-11"
60	72"	5'-11"	4'-5"	3'-9"	3'-9"

TABLE 1.36

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

3441 Ivylink Place  
Lynchburg, VA 24502  
carlputnam@comcast.net



Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance JAN 07 2014



OCT 02 2013



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

TABLE 3.1																
0.042"x3"x8" Box Beam (Detail L1)						Double 0.042"x3"x8" (Detail L12)				Double 0.040"x2"x6.625" (Detail L12)						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span 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)	8' (in)	10' (in)	12' (in)				8' (in)	10' (in)	12' (in)	

150 MPH EXPOSURE C or 170 MPH EXPOSURE B																					
30	3	8'-0"	A	9'-1"	B	18	23	24	26	13'-6"	D	20	25	26	28	12'-1"	C	20	23	25	26
	3.5	6'-10"	A	8'-3"	B	18	22	24	25	12'-5"	D	21	24	26	27	11'-2"	D	20	23	24	26
	4	6'-0"	A	7'-7"	B	19	22	24	25	11'-6"	D	21	24	25	27	10'-4"	D	21	23	24	25
	4.5	5'-4"	A	7'-0"	B	19	22	23	25	10'-9"	D	22	24	25	27	9'-8"	D	21	22	24	25
	5	4'-10"	A	6'-6"	B	19	21	23	24	10'-1"	E	22	23	25	26	9'-2"	D	21	22	24	25
	5.5	4'-4"	A	6'-1"	C	19	21	23	24	9'-7"	E	22	23	25	26	8'-8"	D	22	22	23	25
	6	4'-0"	A	5'-9"	C	19	21	22	24	9'-1"	E	23	23	24	26	8'-3"	D	22	22	23	24
	6.5	3'-8"	A	5'-5"	C	20	21	22	24	8'-8"	E	23	23	24	25	7'-10"	E	22	22	23	24
	7	3'-5"	A	5'-2"	C	20	20	22	23	8'-3"	E	23	23	24	25	7'-6"	E	22	22	23	24
	7.5	3'-2"	A	4'-11"	C	20	20	22	23	7'-11"	E	23	23	24	25	7'-3"	E	23	23	23	24
	8	3'-0"	A	4'-8"	D	20	21	22	24	7'-7"	E	23	23	24	25	7'-0"	E	23	23	23	24
	8.5	2'-10"	A	4'-5"	D	20	21	22	24	7'-3"	E	24	24	24	25	6'-9"	E	23	23	23	24

TABLE 3.1																
0.042"x3"x8" Box Beam (Detail L1)						Double 0.042"x3"x8" (Detail L12)				Double 0.040"x2"x6.625" (Detail L12)						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span 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)	8' (in)	10' (in)	12' (in)				8' (in)	10' (in)	12' (in)	

120 MPH EXPOSURE C or 140 MPH EXPOSURE B																					
30	3	8'-0"	A	9'-1"	B	18	23	24	26	13'-6"	D	20	25	26	28	12'-1"	C	20	23	25	26
	3.5	6'-10"	A	8'-3"	B	18	22	24	25	12'-5"	D	21	24	26	27	11'-2"	D	20	23	24	26
	4	6'-0"	A	7'-7"	B	19	22	24	25	11'-6"	D	21	24	25	27	10'-4"	D	21	23	24	25
	4.5	5'-4"	A	7'-0"	B	19	22	23	25	10'-9"	D	22	24	25	27	9'-8"	D	21	22	24	25
	5	4'-10"	A	6'-6"	B	19	21	23	24	10'-1"	E	22	23	25	26	9'-2"	D	21	22	24	25
	5.5	4'-4"	A	6'-1"	C	19	21	23	24	9'-7"	E	22	23	25	26	8'-8"	D	22	22	23	25
	6	4'-0"	A	5'-9"	C	19	21	22	24	9'-1"	E	23	23	24	26	8'-3"	D	22	22	23	24
	6.5	3'-8"	A	5'-5"	C	20	21	22	24	8'-8"	E	23	23	24	25	7'-10"	E	22	22	23	24
	7	3'-5"	A	5'-2"	C	20	20	22	23	8'-3"	E	23	23	24	25	7'-6"	E	22	22	23	24
	7.5	3'-2"	A	4'-11"	C	20	20	22	23	7'-11"	E	23	23	24	25	7'-3"	E	23	23	23	24
	8	3'-0"	A	4'-8"	D	20	21	22	24	7'-7"	E	23	23	24	25	7'-0"	E	23	23	23	24
	8.5	2'-10"	A	4'-5"	D	20	21	22	24	7'-3"	E	24	24	24	25	6'-9"	E	23	23	23	24

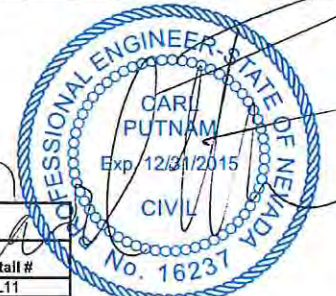
OVER-HANG (FT)	TABLE 3.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES																					
	PROJECTION OF SINGLE SPAN STRUCTURES (FT)																					
	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'							
0'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'							
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 3.3 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 Sideplate	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 3.4 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= 46"	15'	I L21

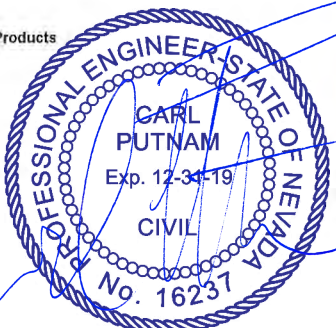
- GENERAL INSTRUCTIONS FOR THESE TABLES**
1. CHOOSE FREESTANDING OR ATTACHED STRUCTURE
  2. CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
  3. DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE (PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS USE 20PSF MIN)
  4. CHOOSE A RAFTER FROM SECTION 1.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
  5. DETERMINE TRIBUTARY WIDTH FROM TABLE 3.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
  6. CHOOSE A HEADER FROM TABLE 3.1 THAT HAS ADEQUATE POST SPACING.
  7. USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 3.1

8. FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 3.1 AND 3.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 3.4
  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 1-8 FROM ABOVE THEN
- SLAB 7. DETERMINE MAXIMUM POST SPACING ON SLAB FROM TABLE 3.1
- 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.



JAN 07 2014  
Amerimax 2012

Washoe County Reviewed and Tables Previously Qualified For Compliance



OCT 02 2013





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

TABLE 3.5										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 ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER		
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8'	12'				15'	8'	12'				15'	8'	12'				15'		

TABLE 3.5										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 ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER		
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8'	12'				15'	8'	12'				15'	8'	12'				15'		

150 MPH EXPOSURE C or 170 MPH EXPOSURE B

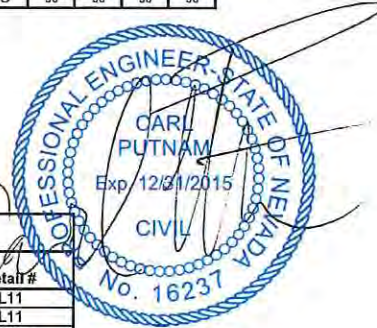
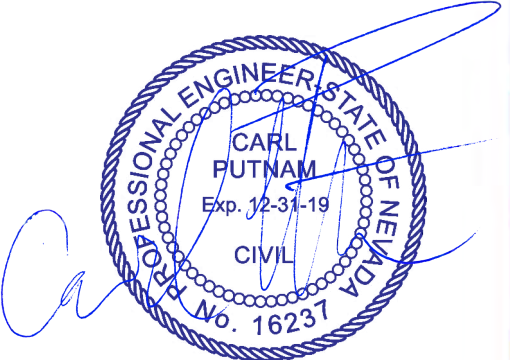
120 MPH EXPOSURE C or 140 MPH EXPOSURE B																										
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER		
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8'	12'				15'	8'	12'				15'	8'	12'				15'		

140 MPH EXPOSURE C or 160 MPH EXPOSURE B																										
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Single Span Structure		Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER		
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8'	12'				15'	8'	12'				15'	8'	12'				15'		

OVER-HANG (FT)	TABLE 3.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES PROJECTION OF SINGLE SPAN STRUCTURES (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 3.3 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 Sideplate	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 3.4 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= 46"	15'	I	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 3.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ONSC02 PAGE 2 OF 2
  6. CHOOSE A HEADER FROM TABLE 3.5 THAT HAS ADEQUATE POST SPACING.
  7. USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 3.5

8. FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 3.5 AND 3.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 3.4
  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 UPGRADED.
  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 3.5  
 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

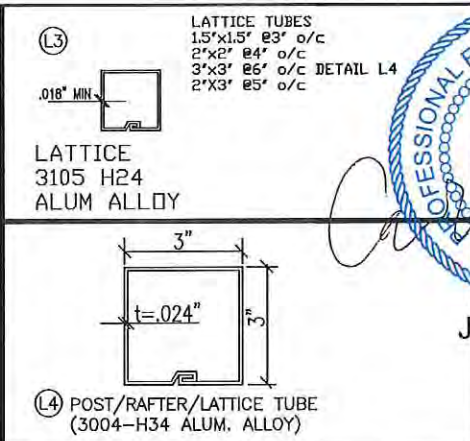
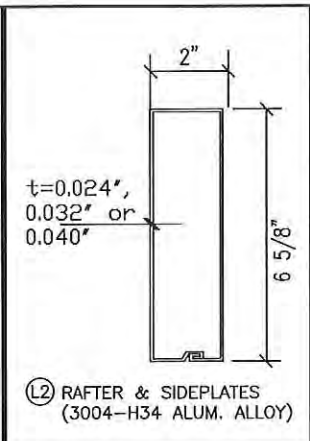
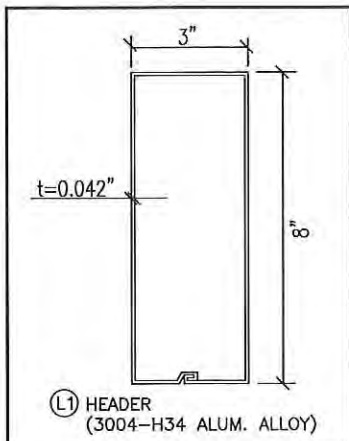
Amerimax Exterior Home Products  
 28921 US Hwy 74  
 Romoland, CA 92585

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 carlputnam@comcast.net



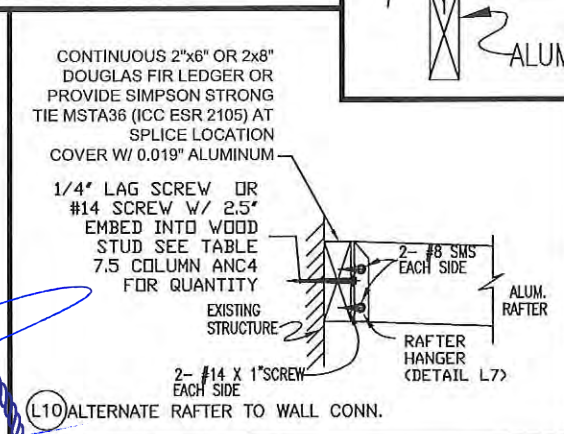
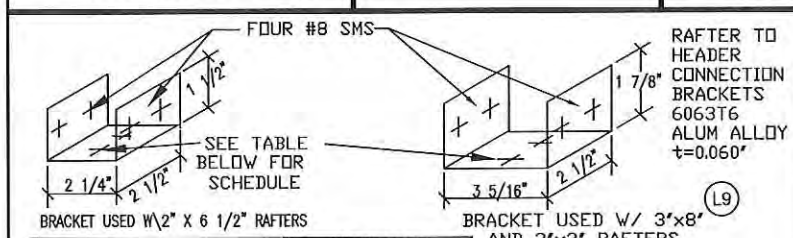
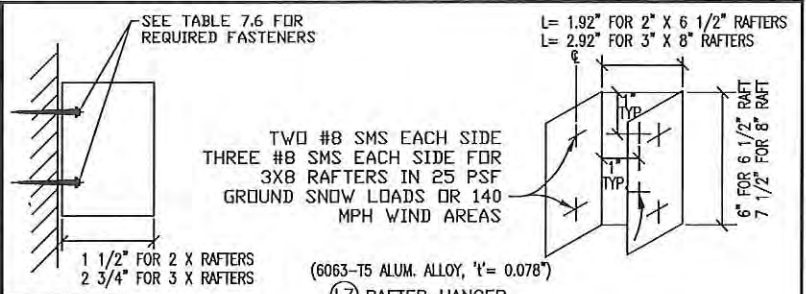
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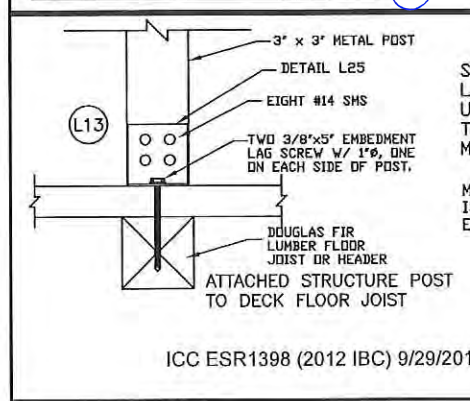
**PROFESSIONAL ENGINEER STATE OF NEVADA**  
**CARL PUTNAM**  
 Exp. 12/31/2015  
**CIVIL**  
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Wind Speed	t (in)	Header	Allowable Trib Width				
			No. of #8 Screws				
115 mph Exp C	0.040	Double 2x6	11'	15'			
	0.042	0.042"x3"x8"	6'	9'	12'	15'	
	0.042	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'		
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'				

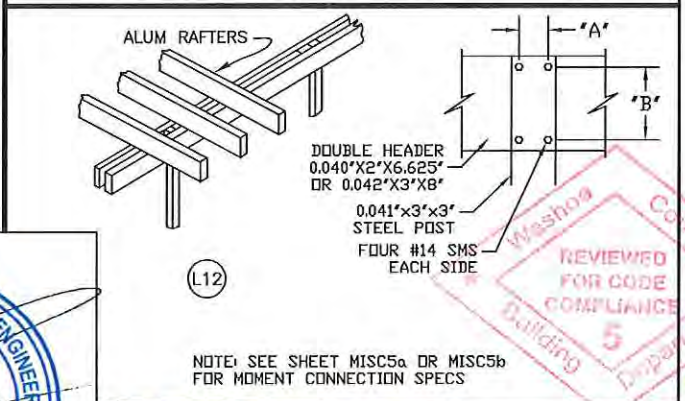
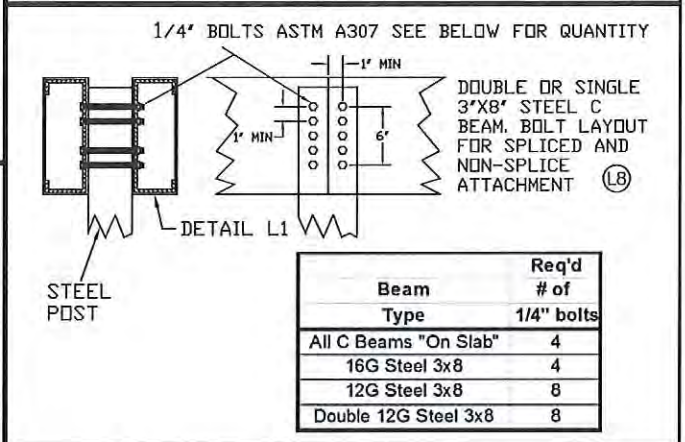
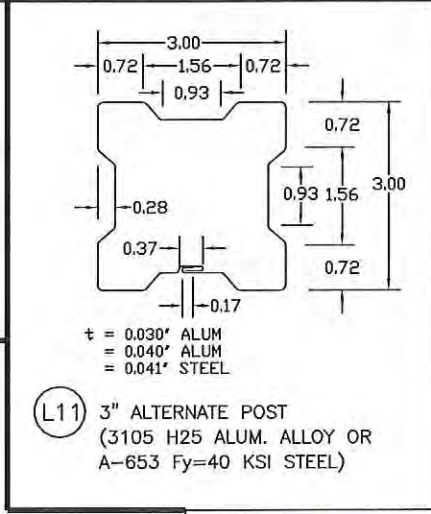
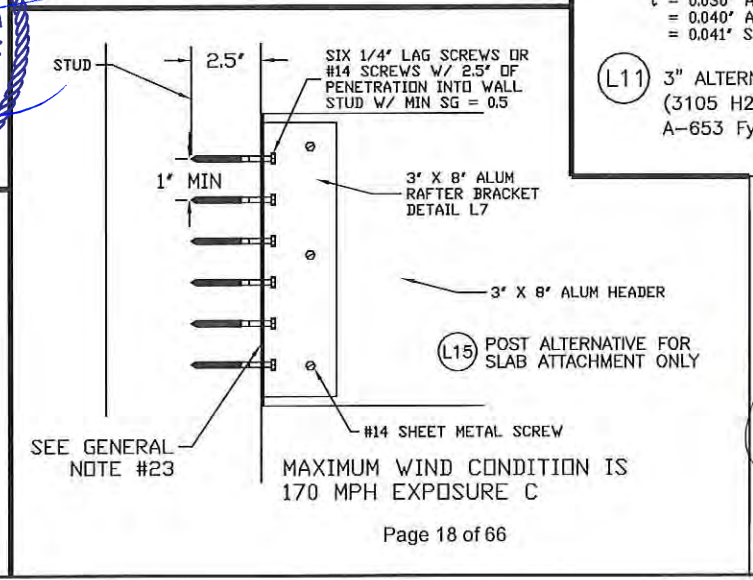
**PROFESSIONAL ENGINEER STATE OF NEVADA**  
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SEE GENERAL NOTE #19 AND LATTICE NOTE #3 UNITS MUST COMPLY WITH TABLES L1 AND L2 ON SHEET M5

MAX WIND SPEED IS 115 mph EXPOSURE C



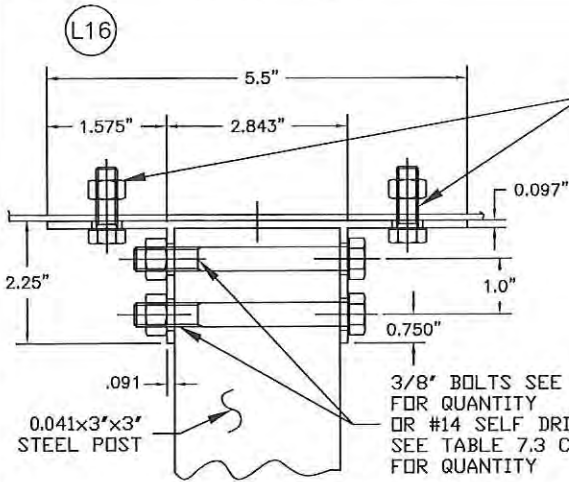
**LICENSED PROFESSIONAL ENGINEER**  
**CARL PUTNAM**  
 C 68139  
 EXP. 6-30-2015  
**CIVIL**  
 STATE OF CALIFORNIA

**OCT 02 2013**  
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**Amerimax** 28921 US Hwy 74  
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP TYPE:  
 SCALE: NTS Component Parts & Connection Details For Patio & Commercial Lattice Structures  
 DATE: FILE: LT01-2012 SHEET: 1 of 4

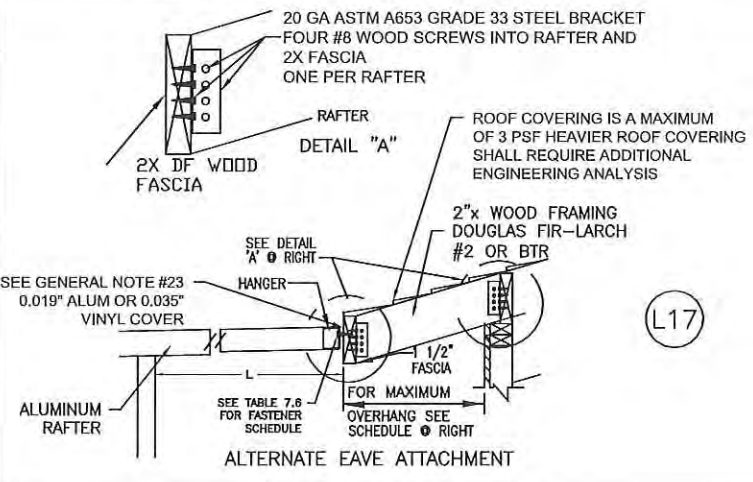




3/8" BOLTS W/ 1" DIA. x 3/32" THK. STL. WASHER TO 8" STEEL "C" BEAM SEE TABLE 7.4 COLUMN "N" FOR QUANTITY FOR #14 SELF DRILLING SCREWS SEE TABLE 7.4 COLUMN "L".

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

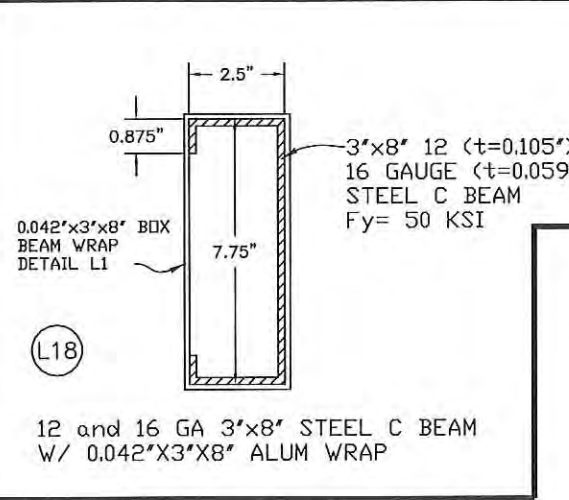
3/8" BOLTS SEE TABLE 7.3 COLUMN "H" FOR QUANTITY OR #14 SELF DRILLING SCREWS SEE TABLE 7.3 COLUMN "G" FOR QUANTITY



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"

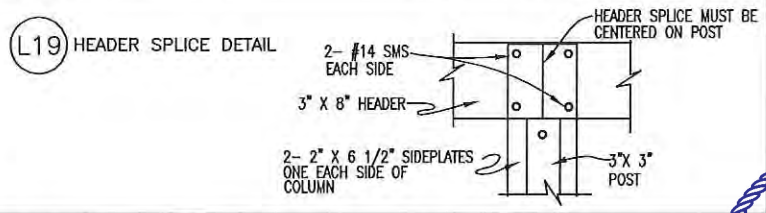
ATTACHMENT TO MANUFACTURED TRUSS TAILS REQUIRES TRUSS ENGINEERING REVIEW AND DESIGN APPROVAL BY A TRUSS DESIGN ENGINEER

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"

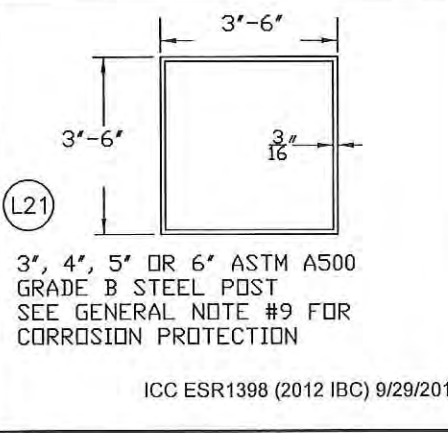


3"x8" 12 (t=0.105") OR 16 GAUGE (t=0.059") STEEL C BEAM Fy= 50 KSI

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

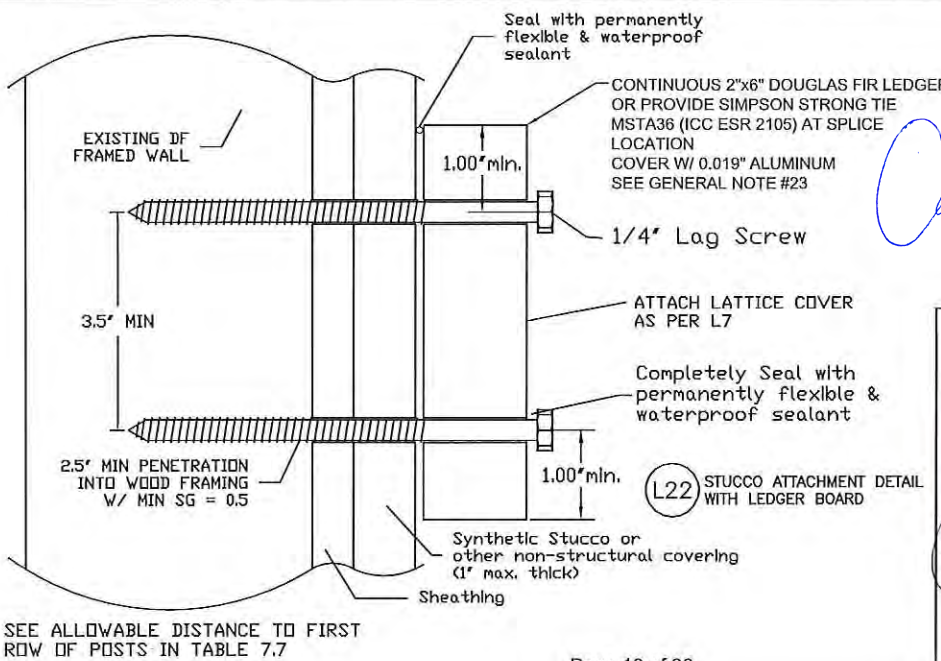


L19 HEADER SPLICE DETAIL



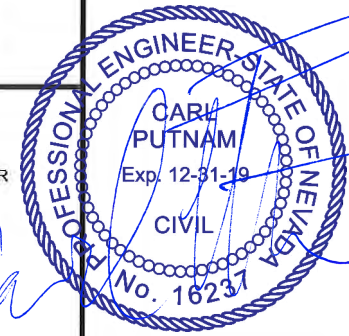
3", 4", 5" OR 6" ASTM A500 GRADE B STEEL POST SEE GENERAL NOTE #9 FOR CORROSION PROTECTION

ICC ESR1398 (2012 IBC) 9/29/2013



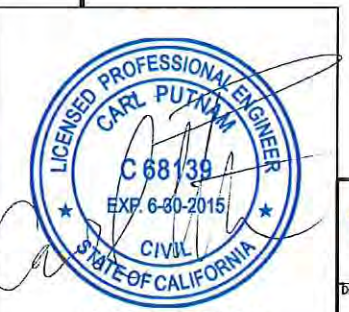
L22 STUCCO ATTACHMENT DETAIL WITH LEDGER BOARD

SEE ALLOWABLE DISTANCE TO FIRST ROW OF POSTS IN TABLE 7.7



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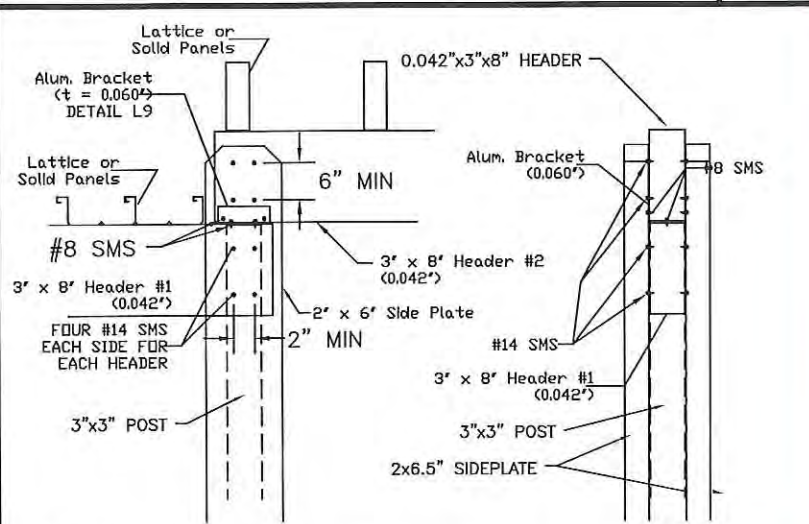
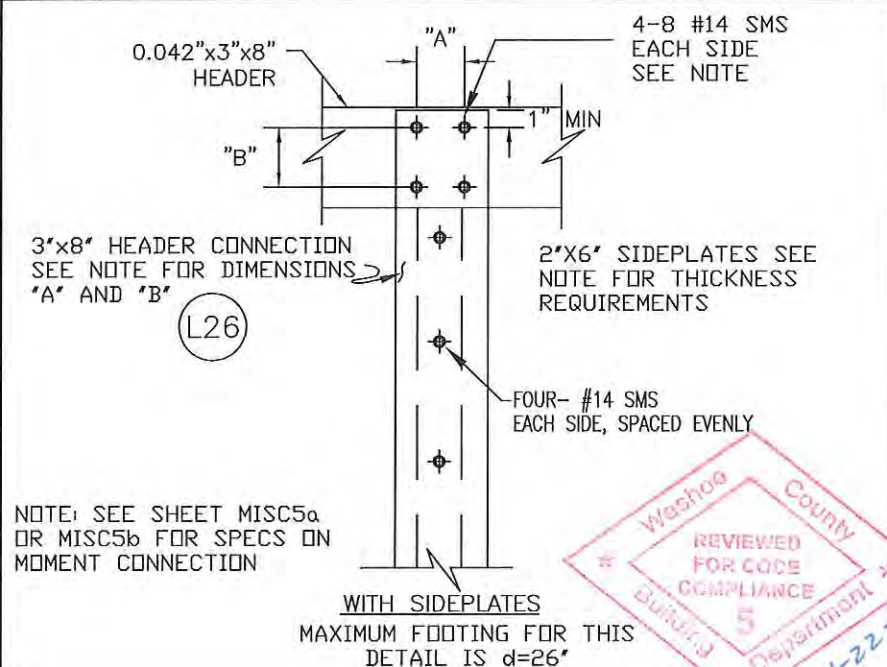
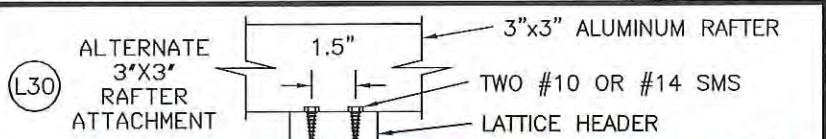
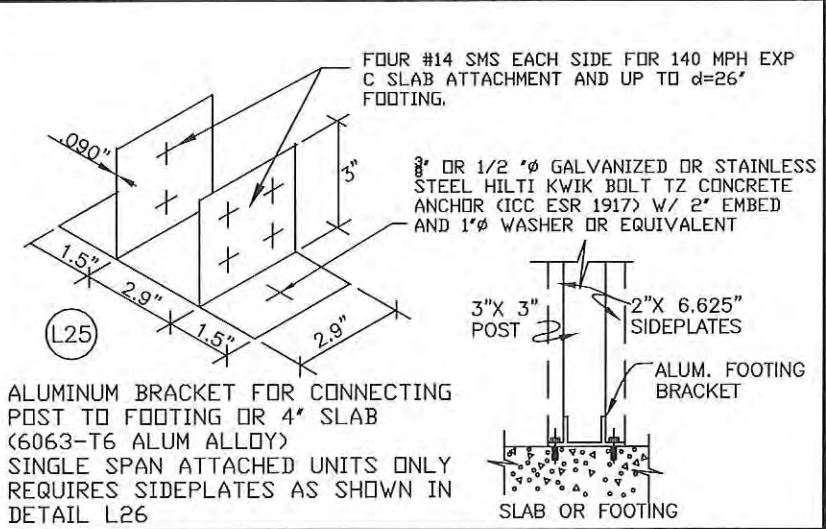
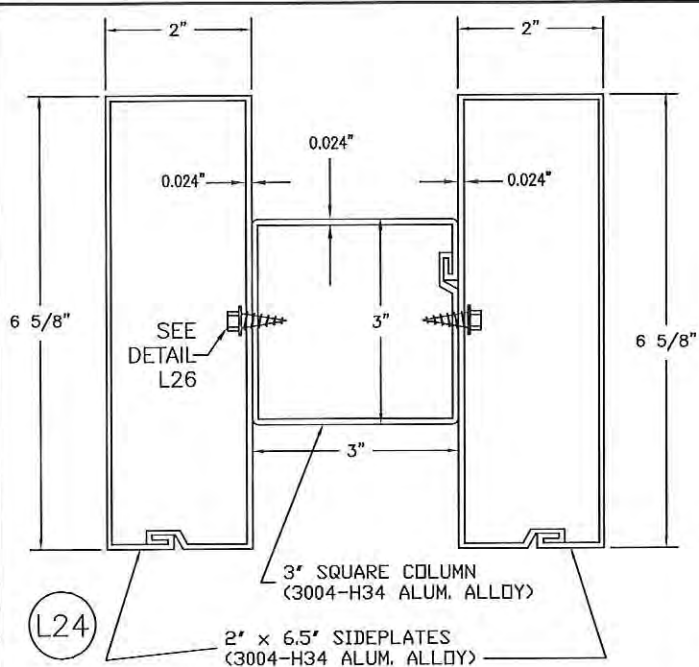
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	SHEET: 2 of 4



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

ICC ESR1398 (2012 IBC) 9/29/2013

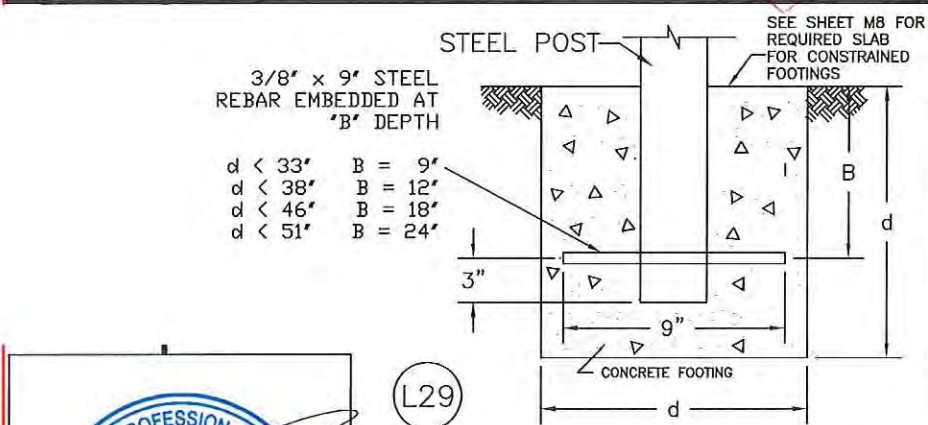
PROFESSIONAL ENGINEER, STATE OF NEVADA  
CARL PUTNAM  
Exp. 12/31/2015  
No. 16237  
CIVIL

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L29 FREESTANDING OR ATTACHED STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL

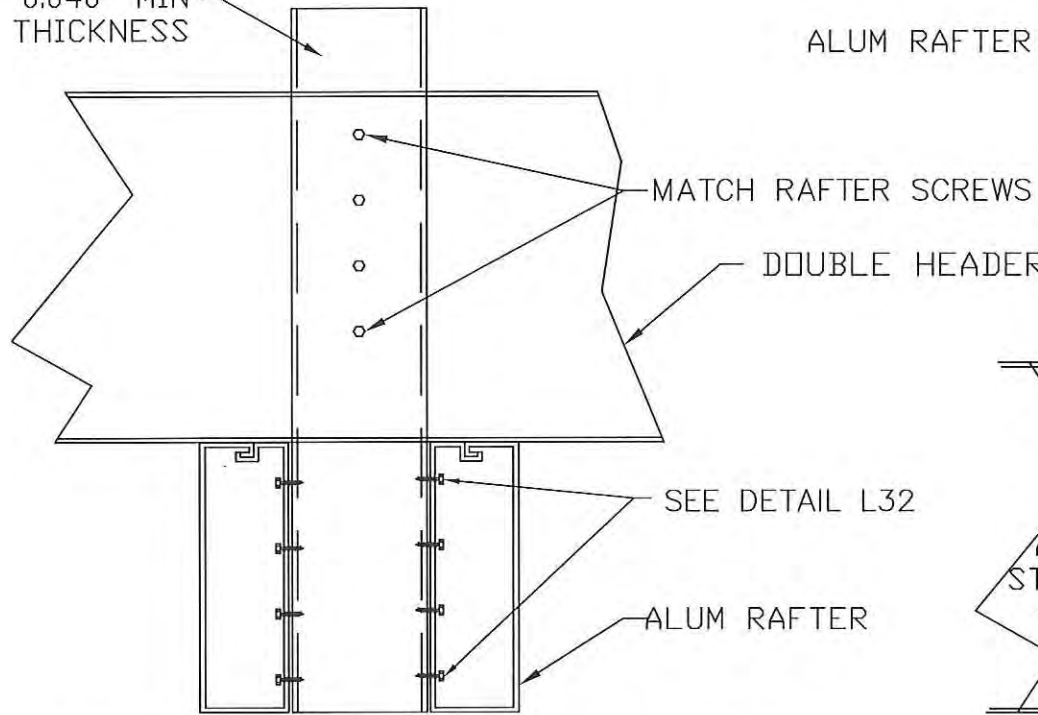
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CARL PUTNAM  
C 68139  
EXP. 6-30-2015  
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STATE OF CALIFORNIA

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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

MATCH RAFTER SCREWS

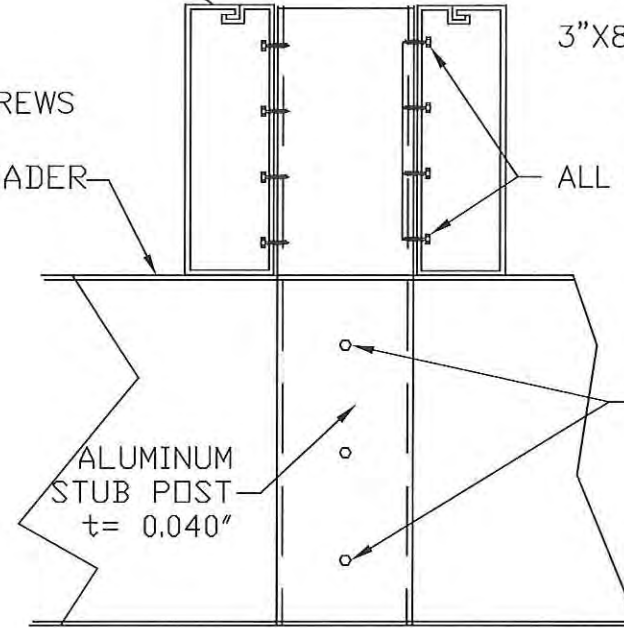
DOUBLE HEADER

SEE DETAIL L32

ALUM RAFTER

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

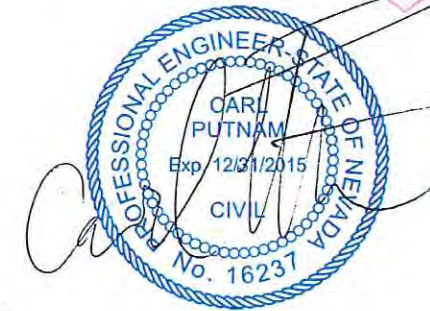
ALL SCREWS REQUIREMENTS ARE PER RAFTER



(L32) DOUBLE RAFTERS

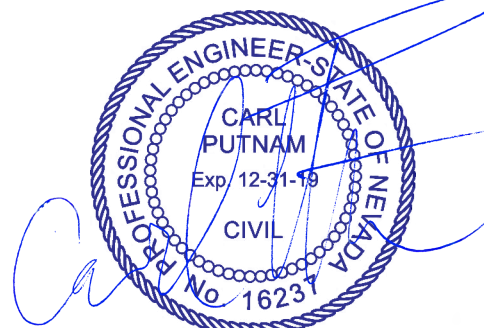
ALUMINUM  
STUB POST  
t= 0.040"

MATCH RAFTER SCREWS



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DRAWN BY: CP	TYPE:	Component Parts & Connection Details For Patio & Commercial Lattice Structures	
SCALE: NTS	DATE:	FILE: LT04-2012	SHEET: 4 of 4

**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								
Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure				Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure				Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure				Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure			
		Exp B	Exposure C					Exp B	Exposure C					Exp B	Exposure C					Exp B	Exposure C		
		140	120	130	140			140	120	130	140			140	120	130	140			140	120	130	140



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Amerimax Exterior Home Products  
28921 US Hwy 74  
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MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #10 SCREWS  
FOR PANEL/HEADER COMBINATIONS Table 4.9

30	0.018	8'-0"	7'-4"	30	0.018	6'-0"	5'-4"	30	0.018	6'-0"	5'-8"	30	0.018	7'-2"	6'-10"
	0.024	10'-10"	9'-4"		0.024	8'-11"	8'-5"		0.024	7'-10"	9'-2"		0.024	8'-9"	8'-3"
	0.032	13'-3"	12'-9"		0.032	11'-6"	11'-0"		0.032	10'-6"	10'-6"		0.032	11'-2"	10'-10"
	0.036	13'-11"	13'-6"		0.036	12'-3"	11'-9"		0.036	10'-10"	10'-5"		0.036	11'-8"	11'-3"
40	0.018	7'-7"	7'-3"	40	0.018	0'-0"	0'-0"	40	0.018	5'-7"	5'-4"	40	0.018	6'-8"	6'-4"
	0.024	9'-3"	8'-9"		0.024	8'-3"	7'-5"		0.024	7'-3"	6'-11"		0.024	8'-1"	7'-9"
	0.032	12'-2"	11'-9"		0.032	10'-6"	9'-4"		0.032	9'-0"	8'-7"		0.032	10'-7"	9'-6"
	0.036	13'-0"	12'-6"		0.036	11'-3"	10'-10"		0.036	9'-3"	8'-10"		0.036	11'-0"	10'-9"
60	0.018	0'-0"	0'-0"	60	0.018	0'-0"	0'-0"	60	0.018	0'-0"	0'-0"	60	0.018	0'-0"	0'-0"
	0.024	0'-0"	0'-0"		0.024	0'-0"	0'-0"		0.024	0'-0"	0'-0"		0.024	0'-0"	0'-0"
	0.032	0'-0"	0'-0"		0.032	0'-0"	0'-0"		0.032	0'-0"	0'-0"		0.032	0'-0"	0'-0"
	0.036	0'-0"	0'-0"		0.036	0'-0"	0'-0"		0.036	0'-0"	0'-0"		0.036	0'-0"	0'-0"

TABLE 4.11  
SINGLE SPAN TABLES

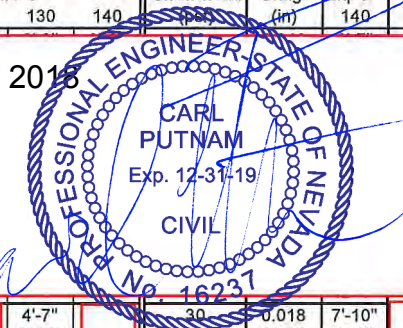
TABLE 4.12

TABLE 4.13

TABLE 4.14

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								
Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure				Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure				Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure				Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure			
		Exp B	Exposure C					Exp B	Exposure C					Exp B	Exposure C					Exp B	Exposure C		
		140	120	130	140			140	120	130	140			140	120	130	140			140	120	130	140

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'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

30	0.018	7'-0"	6'-8"	30	0.018	3'-8"	3'-3"	30	0.018	5'-4"	4'-7"	30	0.018	7'-10"	7'-6"
	0.024	8'-8"	8'-3"		0.024	6'-3"	5'-10"		0.024	7'-2"	6'-10"		0.024	9'-6"	9'-1"
	0.032	10'-8"	10'-2"		0.032	9'-3"	8'-8"		0.032	9'-0"	8'-8"		0.032	11'-2"	10'-10"
	0.036	11'-7"	11'-1"		0.036	10'-7"	10'-0"		0.036	9'-4"	8'-11"		0.036	11'-8"	11'-3"
40	0.018	6'-4"	6'-1"	40	0.018	3'-2"	2'-11"	40	0.018	4'-6"	4'-3"	40	0.018	7'-2"	6'-11"
	0.024	7'-11"	7'-7"		0.024	5'-5"	4'-4"		0.024	6'-7"	6'-4"		0.024	8'-9"	8'-5"
	0.032	9'-9"	9'-5"		0.032	8'-2"	7'-8"		0.032	8'-3"	7'-11"		0.032	10'-7"	10'-3"
	0.036	10'-8"	10'-3"		0.036	9'-5"	8'-11"		0.036	8'-5"	8'-2"		0.036	11'-0"	10'-9"
60	0.018	0'-0"	0'-0"	60	0.018	0'-0"	0'-0"	60	0.018	0'-0"	0'-0"	60	0.018	0'-0"	0'-0"
	0.024	0'-0"	0'-0"		0.024	0'-0"	0'-0"		0.024	0'-0"	0'-0"		0.024	0'-0"	0'-0"
	0.032	0'-0"	0'-0"		0.032	0'-0"	0'-0"		0.032	0'-0"	0'-0"		0.032	0'-0"	0'-0"
	0.036	0'-0"	0'-0"		0.036	0'-0"	0'-0"		0.036	0'-0"	0'-0"		0.036	0'-0"	0'-0"

TABLE 4.15  
ICC ESR1398 (2012 IBC) 9/29/2013

TABLE 4.16

TABLE 4.17  
Page 23 of 66

TABLE 4.18

Headers	Panel Gauge (in)	# of #14 screws PER FOOT to attach panel to header									
		115 mph Exp B		115 mph Exp C		140 mph Exp C					
		1	2	1	2	3	1	2	3	4	
Dble 2x6.625	0.018	4'	8'	12'	3'	6'	8'	2'	4'	6'	8'
RF Fascia	0.018						2'	4'	MAX	MAX	
3x8	0.018						2'	4'	6'	8'	
All Others	0.018						2'	4'	6'	8'	
Dble 2x6.625	0.024						3'	5'	8'	10'	
RF Fascia	0.024						3'	5'	MAX	MAX	
3x8	0.024						3'	5'	8'	10'	
All Others	0.024						3'	5'	8'	10'	
Dble 2x6.625	0.032						3'	6'	9'	11'	
RF Fascia	0.032						3'	6'	MAX	MAX	
3x8	0.032						3'	7'	10'	13'	
All Others	0.032						3'	7'	10'	13'	
Dble 2x6.625	0.036						3'	6'	9'	11'	
RF Fascia	0.036						3'	6'	MAX	MAX	
3x8	0.036						4'	7'	11'	MAX	
All Others	0.036						4'	8'	11'	MAX	



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

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	Attached Structure		Freestanding or Multispan Units		MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH		MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH	
				POST TYPE	FOOTER SIZE (in)	8'	10'				12'	POST TYPE				FOOTER SIZE (in)	8'

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	Attached Structure		Freestanding or Multispan Units		MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH		MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH	
				POST TYPE	FOOTER SIZE (in)	8'	10'				12'	POST TYPE				FOOTER SIZE (in)	8'

130 MPH EXPOSURE B

10 LIVE LOAD ONLY																		
10 LIVE LOAD ONLY																		
10 LIVE LOAD ONLY																		

or 115 MPH EXPOSURE C

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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
	3.5	8'-2"	A	7'-1"	B	19	23	25	26	10'-10"	D	22	26	27	28	9'-10"	C	22	25	27	28
	4	7'-1"	A	6'-6"	B	20	23	24	26	10'-1"	D	23	25	27	28	9'-1"	D	22	25	26	28
	4.5	6'-4"	A	6'-0"	B	20	23	24	25	9'-4"	D	23	25	26	28	8'-6"	D	22	24	26	27
	5	5'-8"	A	5'-7"	B	20	22	24	25	8'-10"	D	23	24	26	27	8'-0"	D	23	24	25	27
	5.5	5'-2"	A	5'-2"	B	20	22	23	25	8'-3"	D	24	24	26	27	7'-7"	D	23	24	25	27
	6	4'-9"	A	4'-10"	B	20	22	23	24	7'-10"	D	24	24	25	27	7'-2"	D	23	23	25	26
	6.5	4'-4"	A	4'-7"	B	21	21	23	24	7'-5"	E	24	24	25	26	6'-10"	D	24	24	25	26
	7	4'-1"	A	4'-4"	B	21	21	23	24	7'-1"	E	24	24	25	26	6'-7"	D	24	24	24	26
	7.5	3'-9"	A	4'-1"	B	21	21	22	24	6'-9"	E	25	25	25	26	6'-3"	D	24	24	24	26
	8	3'-6"	A	3'-11"	B	21	21	22	23	6'-6"	E	25	25	25	26	6'-0"	E	24	24	24	25
	8.5	3'-4"	A	3'-8"	B	21	21	22	23	6'-3"	E	25	25	25	26	5'-10"	E	24	24	24	25
	9	3'-2"	A	3'-6"	B	21	21	22	23	6'-0"	E	25	25	25	25	5'-7"	E	25	25	25	25

130 MPH EXPOSURE C

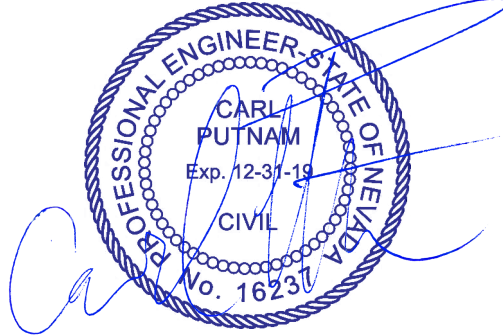
30	3	9'-6"	A	7'-2"	B	21	25	27	29	11'-0"	D	24	28	30	31					
	3.5	8'-2"	A	6'-6"	B	21	25	27	28	10'-0"	D	24	27	29	31					
	4	7'-1"	A	5'-11"	B	21	24	26	28	9'-3"	D	25	27	29	30					
	4.5	6'-4"	A	5'-5"	B	22	24	26	27	8'-8"	D	25	26	28	30					
	5	5'-8"	A	5'-0"	B	22	24	25	27	8'-1"	D	26	26	28	29					
	5.5	5'-2"	A	4'-8"	B	22	23	25	26	7'-7"	D	26	26	27	29					
	6	4'-9"	A	4'-5"	B	22	23	25	26	7'-2"	E	26	26	27	29					
	6.5	4'-4"	A	4'-1"	B	22	23	24	26	6'-10"	E	26	26	27	28					
	7	4'-1"	A	3'-11"	B	22	23	24	26	6'-6"	E	27	27	27	28					
	7.5	3'-9"	A	3'-8"	B	23	23	24	25	6'-2"	E	27	27	27	28					
	8	3'-6"	A	3'-6"	B	23	23	24	25	5'-11"	E	27	27	27	28					
	8.5	3'-4"	A	3'-4"	B	23	23	23	25	5'-8"	E	27	27	27	27					
	9	3'-2"	A	3'-2"	C	23	23	23	25	5'-5"	E	27	27	27	27					

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

		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 6.1		Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units							
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH		
							8'	10'	12'				8'	10'	12'				8'	10'	12'

		140 MPH EXPOSURE C or 160 MPH EXPOSURE B					140 MPH EXPOSURE B or 115 MPH EXPOSURE C					140 MPH EXPOSURE C										
10	LIV LOAD ON	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	11.5	12	12.5	13
20	LIV LOAD ON	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	11.5	12	12.5	13
30	LIV LOAD ON	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	11.5	12	12.5	13



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		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 6.1		Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units			Attached Structure		Freestanding or Multispan Units							
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH		
							8'	10'	12'				8'	10'	12'				8'	10'	12'

		140 MPH EXPOSURE B or 115 MPH EXPOSURE C					140 MPH EXPOSURE C														
30	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	11.5	12	12.5	13
30	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	11.5	12	12.5	13

		140 MPH EXPOSURE C																			
30	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	11.5	12	12.5	13
30	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	11.5	12	12.5	13

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	n/a	n/a	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	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'					

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

Post Description	Maximum Footing	Max Height	PQST 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 ONSC02 PAGE 2 OF 2
  - CHOOSE A HEADER FROM THAT HAS ADEQUATE POST SPACING.
  - USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 6.1

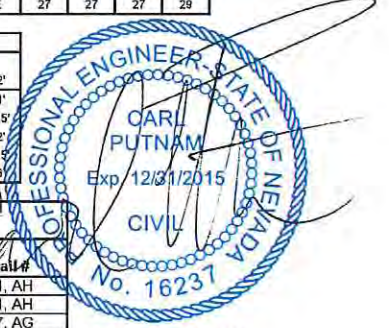
- FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 6.1 AND 6.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 6.4
  - FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
  - USE THE APPROPRIATE DETAILS (N1-N35 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

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 3441 Ivylink Place  
 Lynchburg, VA 24503  
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Amerimax 2012  
 Washoe County Reviewed  
 Footing and Tables Previously Qualified  
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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)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER							
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	8'	10'	12'												

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)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER							
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	8'	10'	12'												

130 MPH EXPOSURE B

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140 MPH EXPOSURE B

JAN 07 2014  
Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance

130 MPH EXPOSURE B																										
30	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	7'-7"	A	19	20	22	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	7'-7"	A	19	20	22	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	7'-9"	B	19	20	22	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	7'-1"	B	19	20	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	6'-4"	B	20	20	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	5'-10"	B	20	20	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	6'-0"	B	20	20	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	5'-5"	B	20	20	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	5'-1"	B	20	20	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	4'-10"	B	20	20	20	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	4'-7"	B	21	21	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	4'-4"	B	21	21	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	4'-5"	C	21	21	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	4'-2"	C	21	21	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	4'-0"	C	22	22	22	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	3'-7"	B	21	21	21	23
	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	8'-8"	B	20	20	20	22	23	3'-10"	C	22	22	22	23

130 MPH EXPOSURE C or 150 MPH EXPOSURE B

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

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	
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER		
							8'	10'	12'				8'	10'	12'

130 MPH EXPOSURE B

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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	
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER		
							8'	10'	12'				8'	10'	12'

140 MPH EXPOSURE B

JAN 07 2014

Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance

130 MPH EXPOSURE B																										
30	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
	9'-6"	8'-2"	7'-1"	6'-4"	5'-8"	5'-2"	4'-9"	4'-4"	4'-1"	3'-9"	3'-6"	3'-4"	3'-2"	13'-1"	12'-5"	11'-10"	11'-5"	11'-0"	10'-0"	9'-9"	9'-6"	9'-3"	9'-1"	8'-10"	8'-8"	8'-6"
	A	A	A	A	A	A	A	A	A	A	A	A	A	D	D	D	E	E	E	E	E	F	F	F	F	F
	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	25	24	24	24	25	25	25	25	27	27	27	28	28	25	26	26	26	26	26	26	26	26	26	26	26	26
	10'-9"	9'-10"	9'-1"	8'-5"	7'-11"	7'-5"	7'-0"	6'-8"	6'-4"	6'-0"	5'-9"	5'-6"	5'-4"	B	C	C	C	C	D	D	D	D	D	D	D	D
	21	22	22	22	23	23	23	23	23	24	24	24	24	21	22	22	22	22	23	23	23	23	23	23	23	23
	21	22	22	22	23	23	23	23	23	24	24	24	24	21	22	22	22	22	23	23	23	23	23	23	23	23
	11'-1"	10'-6"	10'-1"	9'-8"	9'-4"	9'-1"	8'-10"	8'-7"	8'-4"	8'-0"	7'-9"	7'-6"	7'-4"	C	D	D	D	D	E	E	E	E	E	E	E	E
	21	22	23	23	24	24	25	25	26	26	26	27	27	21	22	22	22	22	23	23	23	23	23	23	23	23

130 MPH EXPOSURE C or 150 MPH EXPOSURE B

30	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
	9'-6"	8'-2"	7'-1"	6'-4"	5'-8"	5'-2"	4'-9"	4'-4"	4'-1"	3'-9"	3'-6"	3'-4"	3'-2"	12'-6"	11'-10"	11'-4"	10'-11"	10'-6"	9'-7"	9'-4"	9'-1"	8'-10"	8'-8"	8'-5"	8'-2"	7'-11"
	A	A	A	A	A	A	A	A	A	A	A	A	A	D	D	E	E	E	E	E	F	F	F	F	F	F
	25	26	27	27	27	27	27	27	27	27	27	27	27	25	26	26	26	26	26	26	26	26	26	26	26	26
	27	26	26	26	26	26	26	26	26	26	26	26	26	25	26	26	26	26	26	26	26	26	26	26	26	26
	9'-11"	9'-1"	8'-4"	7'-9"	7'-3"	6'-9"	6'-5"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"	4'-10"	C	D	D	D	D	D	D	D	D	D	D	D	D
	23	24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24
	23	24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24

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

TABLE 6.6 Classic Extruded Fascia (Detail H)										Alaskan Extruded Fascia (Detail K)					Double Steel Cloverleaf (Detail AA)											
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 (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH		
				POST SPACING (FT)	MIN POST TYPE	8'	10'	12'				POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)				8'	10'	12'				POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)

140 MPH EXPOSURE C or 160 MPH EXPOSURE B

TABLE 6.6 Classic Extruded Fascia (Detail H)										Alaskan Extruded Fascia (Detail K)					Double Steel Cloverleaf (Detail AA)											
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 (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH		
				POST SPACING (FT)	MIN POST TYPE	8'	10'	12'				POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)				8'	10'	12'				POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)

140 MPH EXPOSURE B																						
30	3	9'-6"	A	12'-10"	D	24	24	24	26	10'-6"	C	22	22	23	24	10'-11"	C	22	23	24	25	26
	3.5	8'-2"	A	12'-3"	D	24	24	24	25	9'-7"	C	23	23	23	24	10'-4"	D	23	23	24	25	25
	4	7'-1"	A	11'-8"	E	25	25	25	25	8'-10"	D	23	23	23	24	9'-11"	D	24	24	24	25	25
	4.5	6'-4"	A	11'-3"	E	26	26	26	26	8'-2"	D	23	23	23	23	9'-6"	D	24	24	24	25	25
	5	5'-8"	A	10'-10"	E	26	26	26	26	7'-8"	D	24	24	24	24	9'-2"	E	25	25	25	25	25
	5.5	5'-2"	A	9'-11"	E	26	26	26	26	7'-2"	D	24	24	24	24	8'-11"	E	26	26	26	26	26
	6	4'-9"	A	9'-7"	E	27	27	27	27	6'-10"	D	24	24	24	24	8'-8"	E	26	26	26	26	26
	6.5	4'-4"	A	9'-4"	E	27	27	27	27	6'-5"	D	24	24	24	24	8'-5"	E	27	27	27	27	27
	7	4'-1"	A	9'-1"	F	28	28	28	28	6'-2"	D	24	24	24	24	8'-1"	E	27	27	27	27	27
	7.5	3'-9"	A	8'-11"	F	28	28	28	28	5'-10"	D	25	25	25	25	7'-10"	E	27	27	27	27	27
	8	3'-6"	A	8'-9"	F	29	29	29	29	5'-7"	D	25	25	25	25	7'-7"	E	27	27	27	27	27
	8.5	3'-4"	A	8'-6"	F	29	29	29	29	5'-4"	E	25	25	25	25	7'-4"	E	28	28	28	28	28

140 MPH EXPOSURE C or 160 MPH EXPOSURE B																						
30	3	9'-6"	A	12'-4"	D	26	26	26	28	9'-8"	C	24	24	25	26	10'-5"	D	25	25	26	28	28
	3.5	8'-2"	A	11'-8"	E	27	27	27	27	8'-10"	D	25	25	25	26	9'-11"	D	26	26	26	27	27
	4	7'-1"	A	11'-2"	E	28	28	28	28	8'-1"	D	25	25	25	25	9'-6"	D	26	26	26	27	27
	4.5	6'-4"	A	10'-9"	E	29	29	29	29	7'-6"	D	25	25	25	25	9'-1"	E	27	27	27	27	27
	5	5'-8"	A	10'-4"	E	29	29	29	29	7'-0"	D	26	26	26	26	8'-10"	E	28	28	28	28	28
	5.5	5'-2"	A	9'-5"	E	29	29	29	29	6'-7"	D	26	26	26	26	8'-6"	E	28	28	28	28	28
	6	4'-9"	A	9'-2"	F	30	30	30	30	6'-3"	D	26	26	26	26	8'-3"	E	29	29	29	29	29
	6.5	4'-4"	A	8'-11"	F	30	30	30	30	5'-11"	D	26	26	26	26	7'-11"	E	29	29	29	29	29
	7	4'-1"	A	8'-9"	F	31	31	31	31	5'-7"	E	27	27	27	27	7'-7"	E	29	29	29	29	29

OVER-HANG (FT)	TABLE 6.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES																					
	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	n/a	n/a	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	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'					

TABLE 6.3 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 6.4 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**

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 PANEL FROM SECTION 4.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
5. DETERMINE TRIBUTARY WIDTH FROM TABLE 6.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
6. CHOOSE A HEADER FROM THAT HAS ADEQUATE POST SPACING.
7. USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 6.6

8. 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
9. FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
10. USE THE APPROPRIATE DETAILS (N1-N35 or A-BM)

FOR PATIO SLABS FOLLOW 1-8 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

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OCT 02 2013



JAN 07 2014

Amerimax 2012  
 Washoe County Reviewed  
 Footing and Tables Previously Qualified  
 For Compliance



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

TABLE 6.7 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	MAX POST SPACING (FT)	Attached Structure		Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONSTRAINED FOOTER		
					MIN POST TYPE	FOOTER SIZE (in)	8'	12'	15'				8'	12'	15'				8'	12'	15'

TABLE 6.7 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	MAX POST SPACING (FT)	Attached Structure		Freestanding or Multispan Units			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONSTRAINED FOOTER		
					MIN POST TYPE	FOOTER SIZE (in)	8'	12'	15'				8'	12'	15'				8'	12'	15'

130 MPH EXPOSURE B

140 MPH EXPOSURE B

130 MPH EXPOSURE B																					
30	3	9'-6"	A	9'-7"	B	20	22	25	27	17'-3"	E	25	28	31	33	13'-9"	D	23	27	30	32
	3.5	8'-2"	A	8'-6"	B	21	22	24	26	15'-6"	E	25	27	30	32	12'-4"	D	23	26	29	31
	4	7'-1"	A	7'-8"	B	21	21	24	26	14'-1"	E	25	26	29	31	10'-11"	D	23	26	29	30
	4.5	6'-4"	A	6'-11"	B	21	21	24	25	12'-10"	E	26	26	29	31	9'-9"	D	23	25	28	30
	5	5'-8"	A	6'-4"	B	21	21	23	25	11'-10"	E	26	26	28	30	8'-9"	D	23	24	27	29
	5.5	5'-2"	A	5'-10"	B	21	21	23	25	11'-0"	E	26	26	28	30	8'-0"	D	23	24	27	29
	6	4'-9"	A	5'-5"	C	21	21	23	24	10'-3"	E	26	26	28	29	7'-4"	D	23	23	26	28
	6.5	4'-4"	A	5'-1"	C	21	21	22	24	9'-8"	E	26	26	27	29	6'-9"	D	23	23	26	28
	7	4'-1"	A	4'-9"	C	21	21	22	24	9'-1"	E	26	26	27	29	6'-4"	D	23	23	26	27
	7.5	3'-9"	A	4'-6"	C	21	21	22	24	8'-7"	E	27	27	27	28	5'-11"	D	23	23	25	27
	8	3'-6"	A	4'-3"	C	21	21	22	24	8'-1"	E	27	27	27	28	5'-6"	D	23	23	25	27
	8.5	3'-4"	A	4'-0"	C	22	22	22	23	7'-8"	E	27	27	27	28	5'-2"	D	23	23	25	26
	9	3'-2"	A	3'-9"	C	22	22	22	23	7'-4"	E	27	27	27	28	4'-11"	D	23	23	24	26

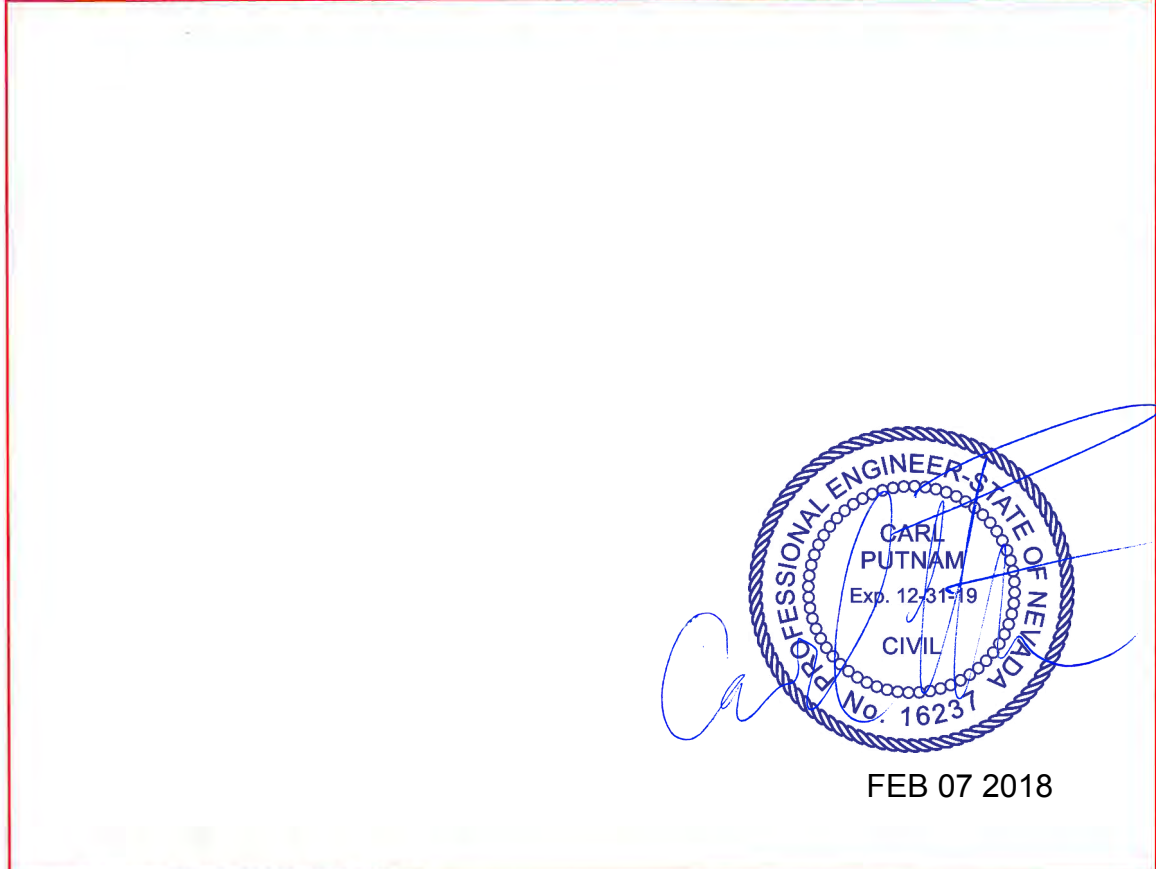
130 MPH EXPOSURE C or 150 MPH EXPOSURE B																				
30	3	9'-6"	A	8'-6"	B	22	24	27	29	15'-9"	E	27	30	33	35					
	3.5	8'-2"	A	7'-8"	B	22	23	26	28	14'-1"	E	27	29	32	34					
	4	7'-1"	A	6'-10"	B	22	23	26	28	12'-9"	E	28	28	31	33					
	4.5	6'-4"	A	6'-3"	B	23	23	25	27	11'-7"	E	28	28	31	33					
	5	5'-8"	A	5'-8"	C	23	23	25	27	10'-8"	E	28	28	30	32					
	5.5	5'-2"	A	5'-3"	C	23	23	25	26	9'-11"	E	28	28	30	32					
	6	4'-9"	A	4'-10"	C	23	23	24	26	9'-3"	E	28	28	29	31					
	6.5	4'-4"	A	4'-6"	C	23	23	24	26	8'-8"	E	29	29	29	31					
	7	4'-1"	A	4'-3"	C	23	23	24	26	8'-1"	E	29	29	29	31					
	7.5	3'-9"	A	4'-0"	C	23	23	24	26	7'-8"	E	29	29	29	30					
	8	3'-6"	A	3'-9"	C	23	23	23	25	7'-3"	E	29	29	29	30					
	8.5	3'-4"	A	3'-6"	C	23	23	23	25	6'-10"	F	29	29	29	30					
	9	3'-2"	A	3'-4"	C	23	23	23	25	6'-6"	F	29	29	29	30					

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

TABLE 6.7 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)	MAX POST LENGTH CONstrained FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			
				MAX POST SPACING (FT)	MIN POST TYPE	8'	12'	15'	8'				12'	15'	8'	12'				15'	8'	12'	15'							

TABLE 6.7 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)	MAX POST LENGTH CONstrained FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			
				MAX POST SPACING (FT)	MIN POST TYPE	8'	12'	15'	8'				12'	15'	8'	12'				15'	8'	12'	15'							

140 MPH EXPOSURE C or 160 MPH EXPOSURE B



140 MPH EXPOSURE B									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8'	12'	15'
30	3	9'-6"	A	9'-2"	B	21	23	26	28
	3.5	8'-2"	A	8'-1"	B	21	22	25	27
	4	7'-1"	A	7'-3"	B	21	22	25	27
	4.5	6'-4"	A	6'-7"	B	22	22	24	26
	5	5'-8"	A	6'-0"	B	22	22	24	26
	5.5	5'-2"	A	5'-7"	B	22	22	24	25
	6	4'-9"	A	5'-2"	C	22	22	23	25
	6.5	4'-4"	A	4'-10"	C	22	22	23	25
	7	4'-1"	A	4'-6"	C	22	22	23	25
	7.5	3'-9"	A	4'-3"	C	22	22	23	25
	8	3'-6"	A	4'-0"	C	22	22	22	24
	8.5	3'-4"	A	3'-9"	C	22	22	22	24

140 MPH EXPOSURE C or 160 MPH EXPOSURE B									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8'	12'	15'
30	3	9'-6"	A	8'-2"	B	23	24	27	29
	3.5	8'-2"	A	7'-2"	B	23	24	27	29
	4	7'-1"	A	6'-5"	B	23	23	26	28
	4.5	6'-4"	A	5'-10"	B	23	23	26	28
	5	5'-8"	A	5'-4"	C	23	23	26	28
	5.5	5'-2"	A	4'-11"	C	24	24	25	27
	6	4'-9"	A	4'-6"	C	24	24	25	27
	6.5	4'-4"	A	4'-2"	C	24	24	25	27
	7	4'-1"	A	3'-11"	C	24	24	24	26

OVER-HANG (FT)	TABLE 6.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES																
	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	n/a	n/a	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	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'

TABLE 6.3 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 6.4 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

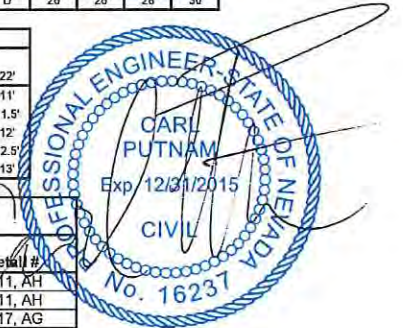
1. CHOOSE FREESTANDING OR ATTACHED STRUCTURE
2. CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
3. DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE (PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS USE 20PSF MIN)
4. CHOOSE A PANEL FROM SECTION 4.0 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
5. DETERMINE TRIBUTARY WIDTH FROM TABLE 6.2 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
6. CHOOSE A HEADER FROM THAT HAS ADEQUATE POST SPACING.
7. USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 6.7

8. FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 6.7 AND 6.3 UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT FREESTANDING AND MULTISPAN UNITS USE TABLE 6.4
9. FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.5 OR TABLE 7.7
10. 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

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 28921 US Hwy 74  
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JAN 07 2014

Amerimax 2012  
 Washoe County Reviewed  
 Footing and Tables Previously Qualified  
 For Compliance



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

TABLE 6.8																	
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)			
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)	MAX POST LENGTH				
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8' (in)	12' (in)	15' (in)								

130 MPH EXPOSURE B

TABLE 6.8																	
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)			
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)	MAX POST LENGTH				
				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	8' (in)	12' (in)	15' (in)								

140 MPH EXPOSURE B

FEB 07 2018

JAN 07 2014  
Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance

130 MPH EXPOSURE B																					
30	5	5'-8"	A	17'-1"	F	29	29	29	30	20'-2"	F	31	31	32	34	24'-6"	F	33	33	34	36
	5.5	5'-2"	A	16'-1"	F	30	30	30	30	19'-4"	F	31	31	32	34	23'-8"	F	34	34	34	36
	6	4'-9"	A	15'-2"	F	30	30	30	30	18'-5"	F	32	32	32	33	23'-0"	G	34	34	34	36
	6.5	4'-4"	A	14'-5"	F	30	30	30	30	17'-8"	F	32	32	32	33	22'-5"	G	35	35	35	36
	7	4'-1"	A	13'-9"	F	30	30	30	30	16'-11"	F	33	33	33	33	21'-10"	G	35	35	35	35
	7.5	3'-9"	A	13'-1"	F	31	31	31	31	16'-3"	F	33	33	33	33	21'-4"	G	36	36	36	36
	8	3'-6"	A	12'-7"	F	31	31	31	31	15'-8"	F	33	33	33	33	20'-11"	G	37	37	37	37
	8.5	3'-4"	A	12'-1"	F	31	31	31	31	15'-2"	F	33	33	33	33	20'-6"	G	37	37	37	37
	9	3'-2"	A	11'-7"	F	31	31	31	31	14'-8"	F	34	34	34	34	20'-1"	G	38	38	38	38
	9.5	3'-0"	A	11'-2"	F	31	31	31	31	14'-2"	G	34	34	34	34	19'-9"	G	38	38	38	38
	10	2'-10"	A	10'-9"	F	32	32	32	32	13'-9"	G	34	34	34	34	19'-5"	G	38	38	38	38
	10.5	2'-8"	A	10'-5"	F	32	32	32	32	13'-5"	G	34	34	34	34	19'-1"	G	39	39	39	39
	11	2'-7"	A	10'-1"	F	32	32	32	32	13'-0"	G	35	35	35	35	18'-10"	G	39	39	39	39

130 MPH EXPOSURE C or 150 MPH EXPOSURE B																				
30	5	5'-8"	A	15'-8"	F	32	32	32	32	19'-0"	F	34	34	34	36					
	5.5	5'-2"	A	14'-9"	F	32	32	32	32	18'-0"	F	34	34	34	36					
	6	4'-9"	A	13'-11"	F	33	33	33	33	17'-2"	F	35	35	35	36					
	6.5	4'-4"	A	13'-2"	F	33	33	33	33	16'-5"	F	35	35	35	35					
	7	4'-1"	A	12'-7"	F	33	33	33	33	15'-9"	F	36	36	36	36					
	7.5	3'-9"	A	12'-0"	F	33	33	33	33	15'-1"	F	36	36	36	36					
	8	3'-6"	A	11'-6"	F	34	34	34	34	14'-7"	F	36	36	36	36					
	8.5	3'-4"	A	11'-0"	F	34	34	34	34	14'-0"	G	37	37	37	37					
	9	3'-2"	A	10'-7"	F	34	34	34	34	13'-7"	G	37	37	37	37					
	9.5	3'-0"	A	10'-2"	F	34	34	34	34	13'-2"	G	37	37	37	37					
	10	2'-10"	A	9'-10"	F	34	34	34	34	12'-9"	G	37	37	37	37					
	10.5	2'-8"	A	9'-6"	F	35	35	35	35	12'-4"	G	38	38	38	38					
	11	2'-7"	A	9'-2"	F	35	35	35	35	12'-0"	G	38	38	38	38					

OCT 02 2013

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

TABLE 6.8				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)									
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'			

TABLE 6.8				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 AY)									
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'			

140 MPH EXPOSURE C or 160 MPH EXPOSURE B

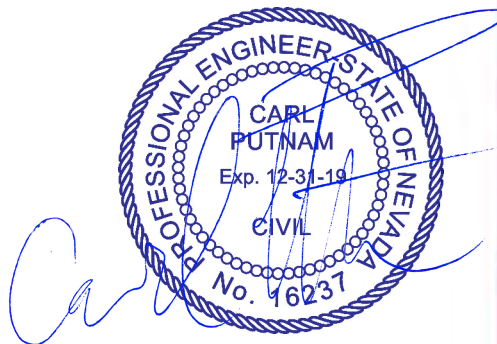
TABLE 6.8				12 Gauge x3"x8" Steel C (Detail T)				Double 16 Ga 3"x8" Steel C (Detail T and A)				Double 12 Ga 3"x8" Steel C (Detail T and AY)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	Attached Structure		Freestanding or Multispan Units		MAX POST SPACING (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'			

TABLE 6.8				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 AY)									
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'			

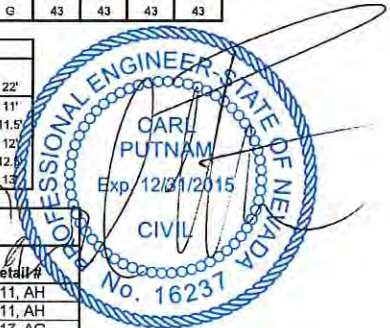
OVER-HANG (FT)	TABLE 6.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES																
	PROJECTION OF SINGLE SPAN STRUCTURES (FT)																
	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'
0'	3'	3.5'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'
1'	3.5'	4'	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	n/a	n/a	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	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	n/a	13'

TABLE 6.3 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 6.4 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



FEB 07 2018



JAN 07 2014

- 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 ONSC02 PAGE 2 OF 2
  - CHOOSE A HEADER FROM THAT HAS ADEQUATE POST SPACING.
  - USE THE APPROPRIATE FOOTER SIZE SHOWN IN TABLE 6.8

- FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN IN TABLE 6.8 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

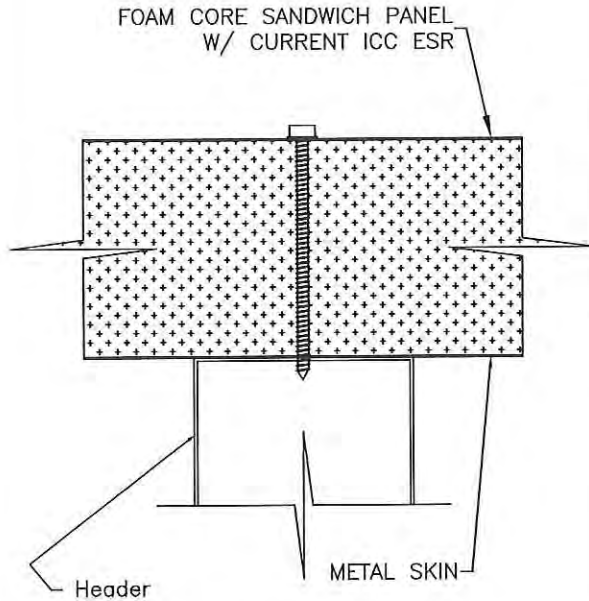
Carl Putnam, P. E.  
 3441 Ivylink Place  
 Lynchburg, VA 24503  
 carlputnam@comcast.net



Amerimax 2012  
 Washoe County Reviewed  
 Footing and Tables Previously Qualified  
 For Compliance



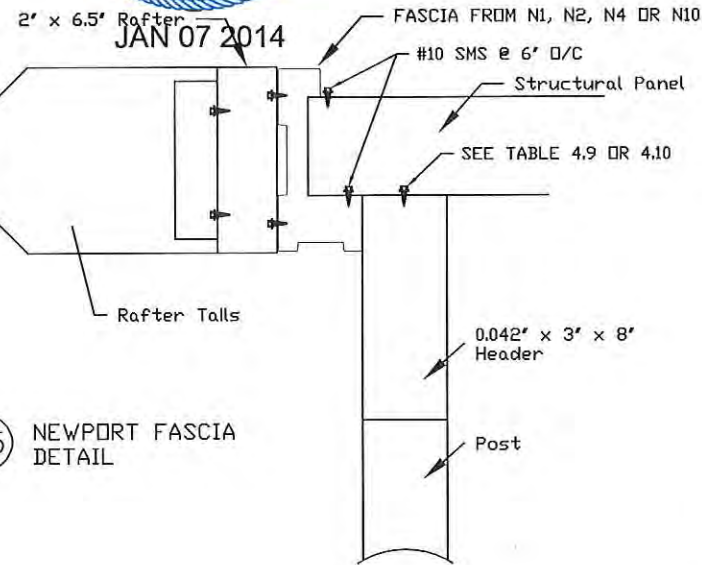
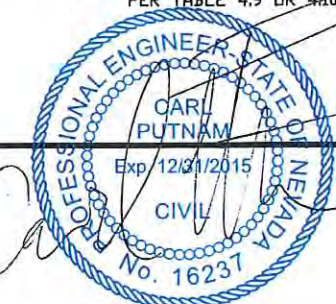
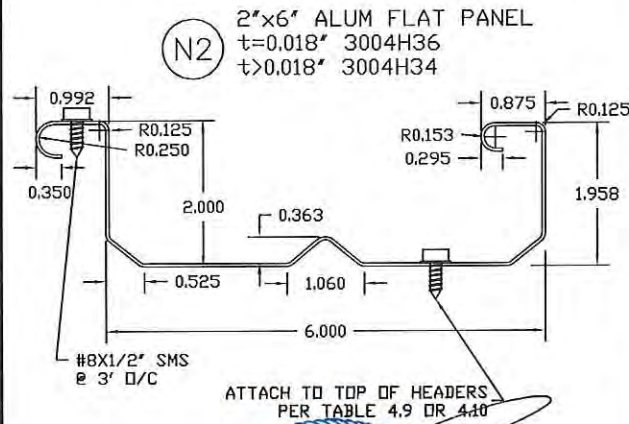
USE OF FOAM CORE SANDWICH PANELS WILL REQUIRE THE USE OF A REGISTERED DESIGN PROFESSIONAL TO COMPLY WITH EXISTING ICC ESR



(N1) SANDWICH PANEL TO HEADER CONNECTION

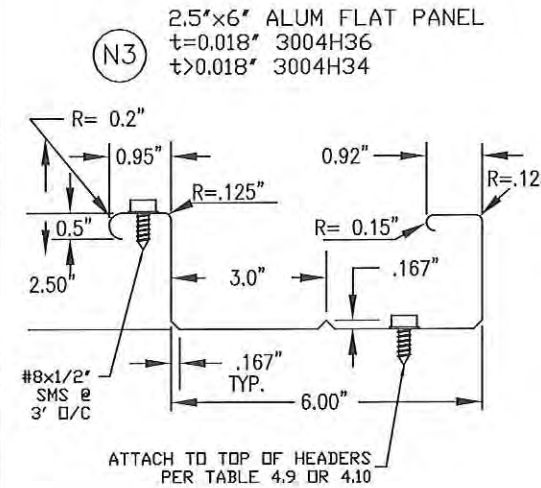


ICC ESR1398 (2012 IBC) 9/29/2013

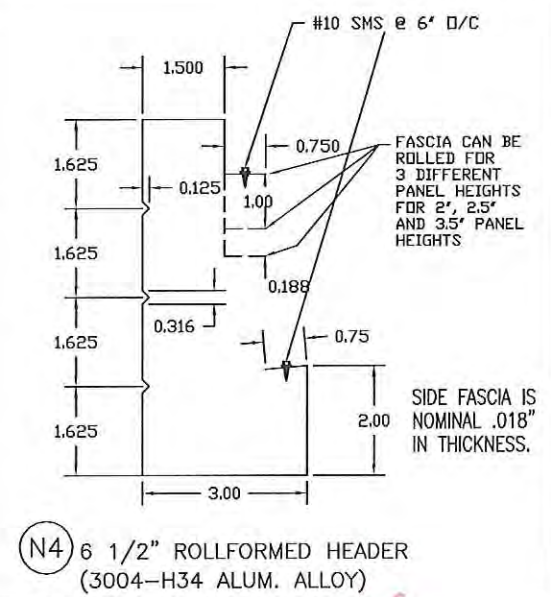


(N5) NEWPORT FASCIA DETAIL

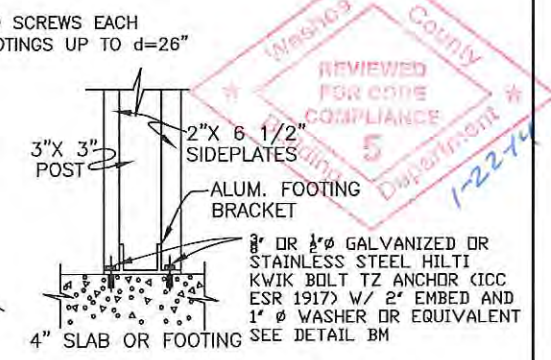
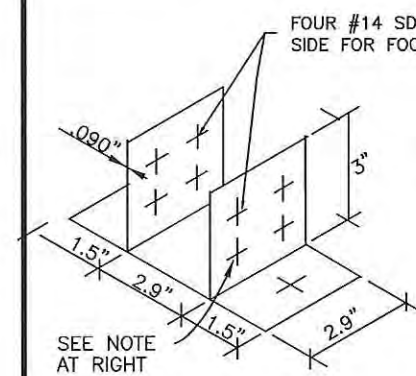
Page 44 of 66



ATTACH TO TOP OF HEADERS PER TABLE 4.9 DR 4.10



(N4) 6 1/2" ROLLFORMED HEADER (3004-H34 ALUM. ALLOY)



(N8) BRACKET FOR CONNECTING POST TO SLAB OR FOOTING (6063-T6 ALUM ALLOY) SINGLE SPAN ATTACHED UNITS ONLY

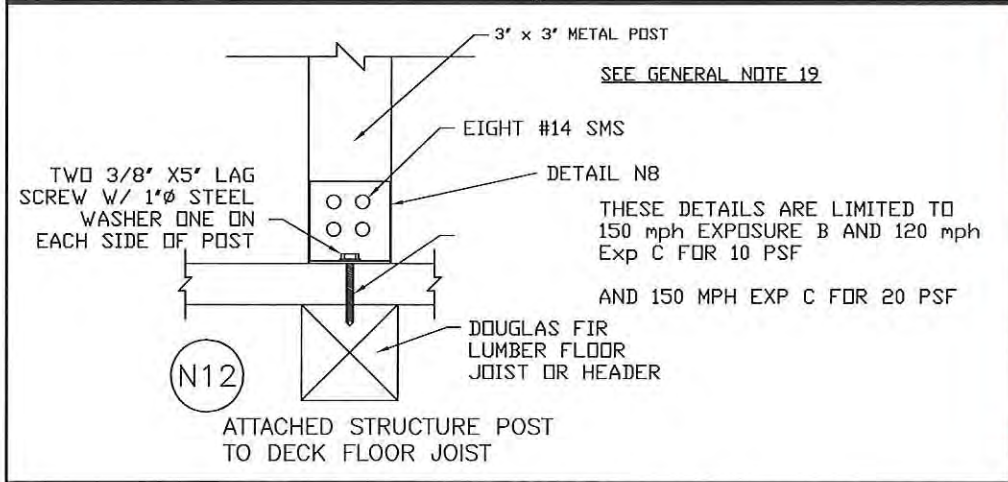
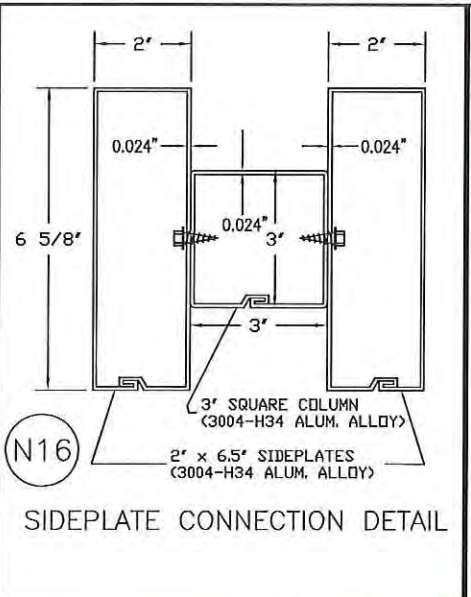
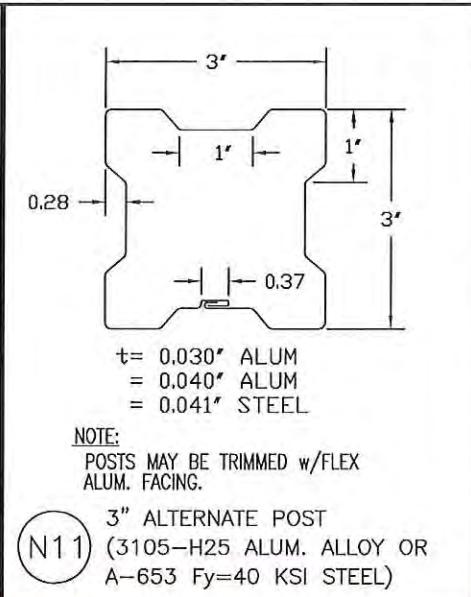
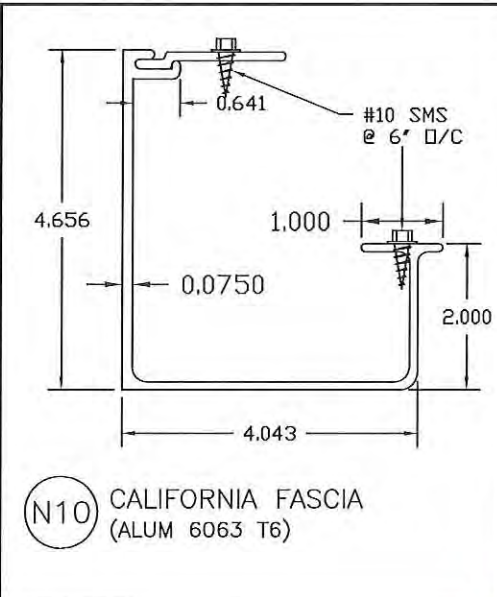
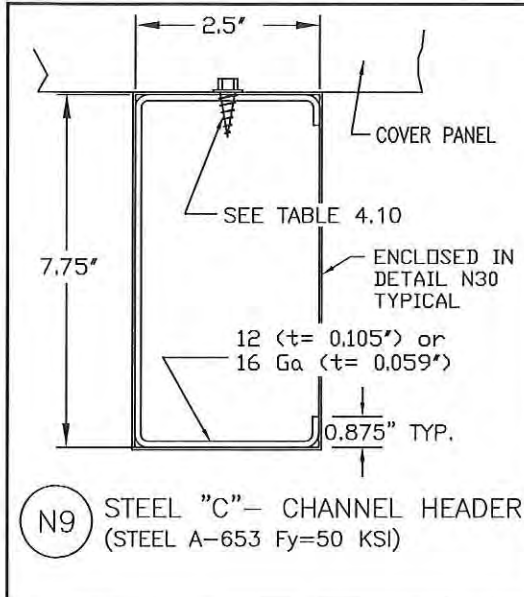


OCT 02 2013

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:	FILE: NP01-2012
	SHEET: 1 of 4



SEE GENERAL NOTE 19

THESE DETAILS ARE LIMITED TO 150 MPH EXPOSURE B AND 120 MPH Exp C FOR 10 PSF AND 150 MPH EXP C FOR 20 PSF

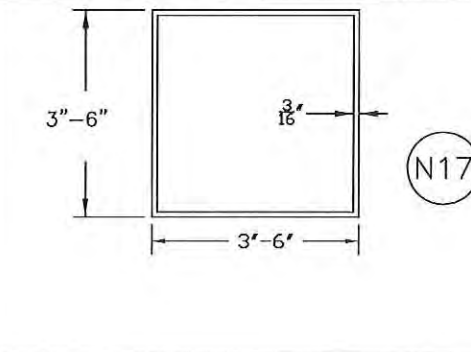
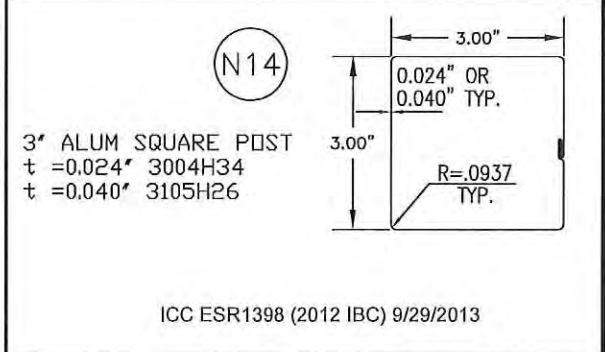
PROFESSIONAL ENGINEER - STATE OF NEVADA  
CARL PUTNAM  
Exp. 12-31-19  
CIVIL  
No. 16237

FEB 07 2018

Washoe County  
REVIEWED FOR CODE COMPLIANCE  
Building Department  
5  
1-22-14

PROFESSIONAL ENGINEER - STATE OF NEVADA  
CARL PUTNAM  
Exp. 12/31/2015  
CIVIL  
No. 16237

JAN 07 2014



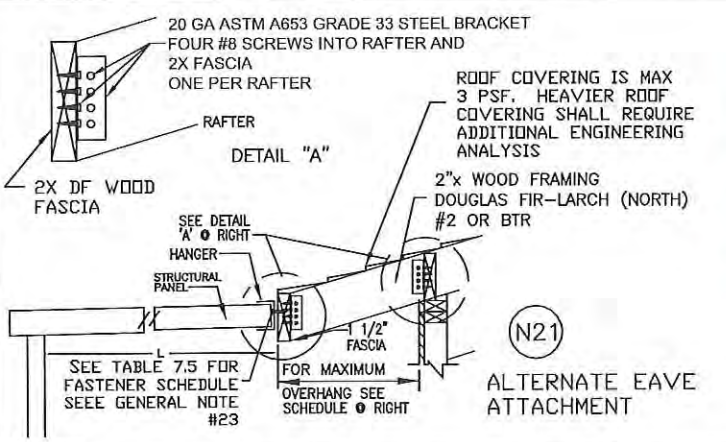
LICENSED PROFESSIONAL ENGINEER  
CARL PUTNAM  
C 68139  
EXP. 6-30-2015  
CIVIL  
STATE OF CALIFORNIA

OCT 02 2013

Engineer's Stamp

Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance

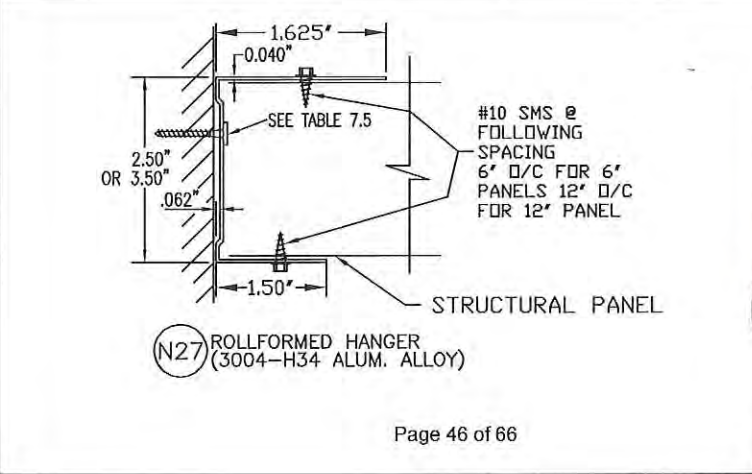
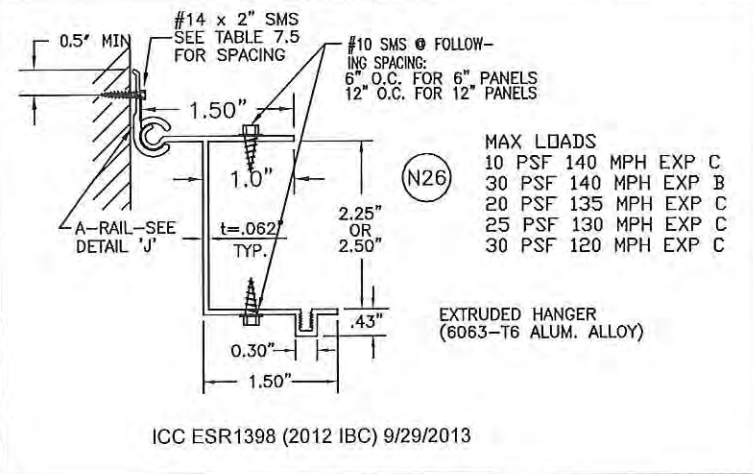
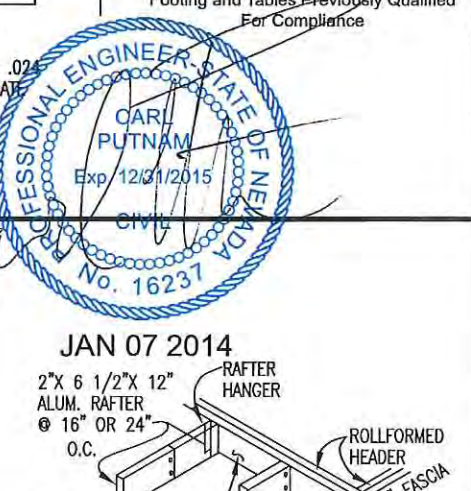
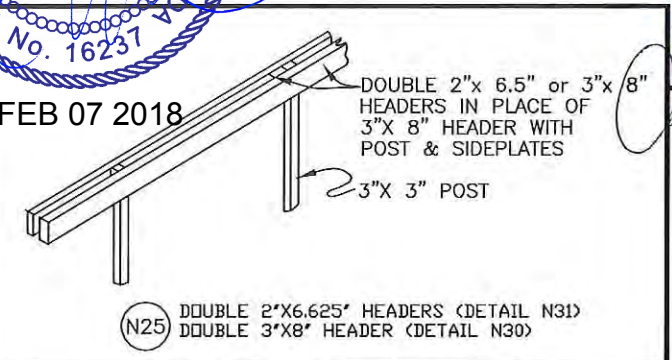
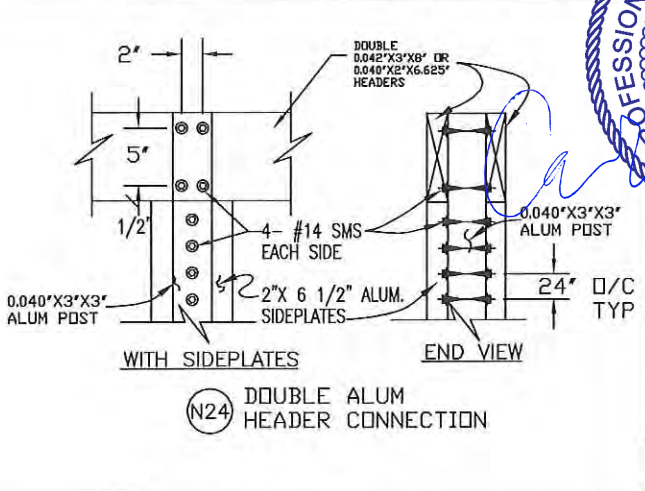
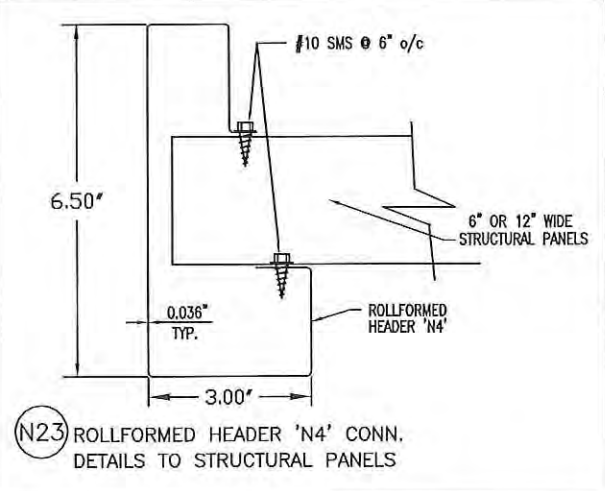
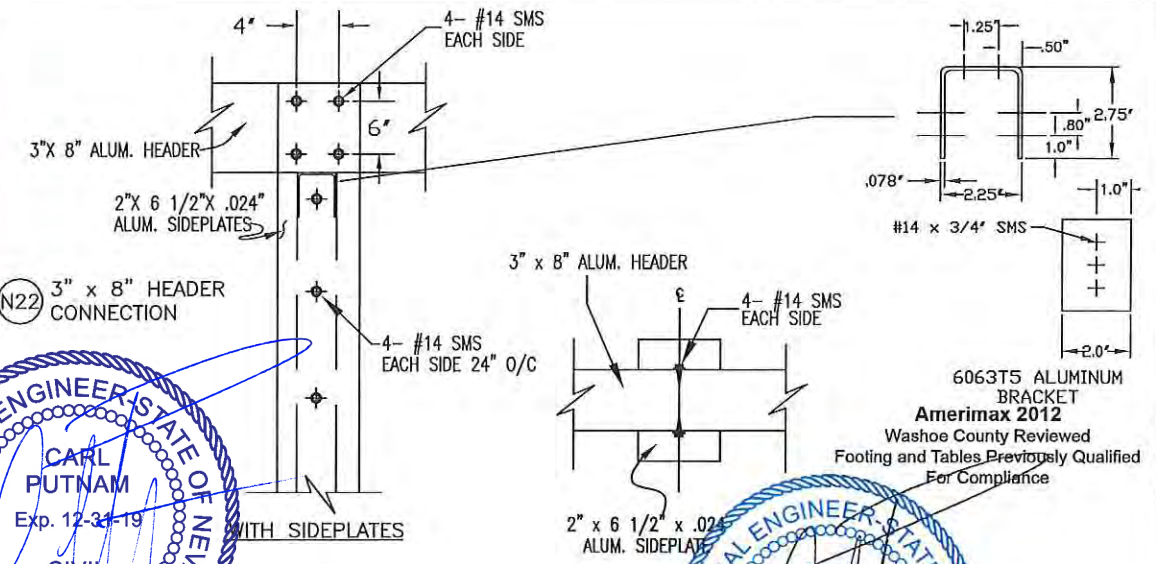
<b>Amerimax</b> EXTERIOR HOME PRODUCTS		28921 US Hwy 74 Romoland, CA 92585	
DRAWN BY: BEJ/CP	TYPE:	NAME: Component Parts & Connection Details for Newport Patio Structures	
SCALE: NTS	DATE:	FILE#: NP02-2012	SHEET: 2 of 4



Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L"				
		EAVE OVERHANG				
10 psf	2x4	18'-0"	18'-0"	12'-0"	7'-1"	3'-8"
	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	9'-10"	4'-0"	1'-7"	0'-2"	0'-0"
	2x6	12'-0"	11'-8"	6'-9"	4'-0"	2'-1"
	2x8	12'-0"	12'-0"	12'-0"	8'-8"	5'-1"

ATTACHMENT TO MANUFACTURED TRUSS TAILS REQUIRES TRUSS ENGINEERING REVIEW AND DESIGN APPROVAL BY A TRUSS DESIGN ENGINEER

30 psf	2x4	15'-0"	9'-2"	5'-1"	2'-8"	1'-0"
140 MPH EXP C	2x6	15'-0"	15'-0"	15'-0"	10'-4"	7'-1"
	2x8	15'-0"	15'-0"	15'-0"	15'-0"	14'-8"
40 psf	2x4	14'-0"	6'-7"	3'-4"	1'-4"	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	2x4	9'-10"	4'-0"	1'-7"	0'-2"	0'-0"
	2x6	12'-0"	11'-8"	6'-9"	4'-0"	2'-1"
	2x8	12'-0"	12'-0"	12'-0"	8'-8"	5'-1"

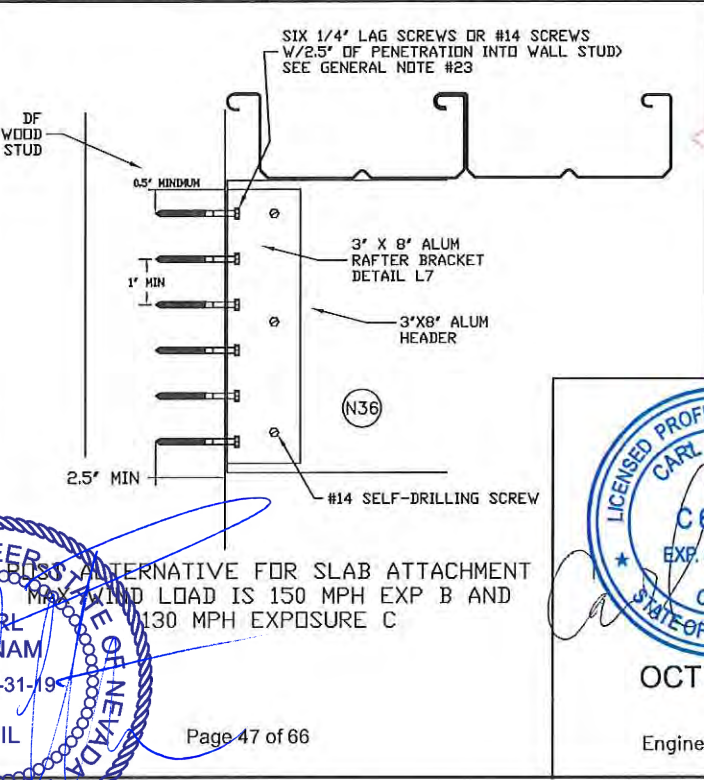
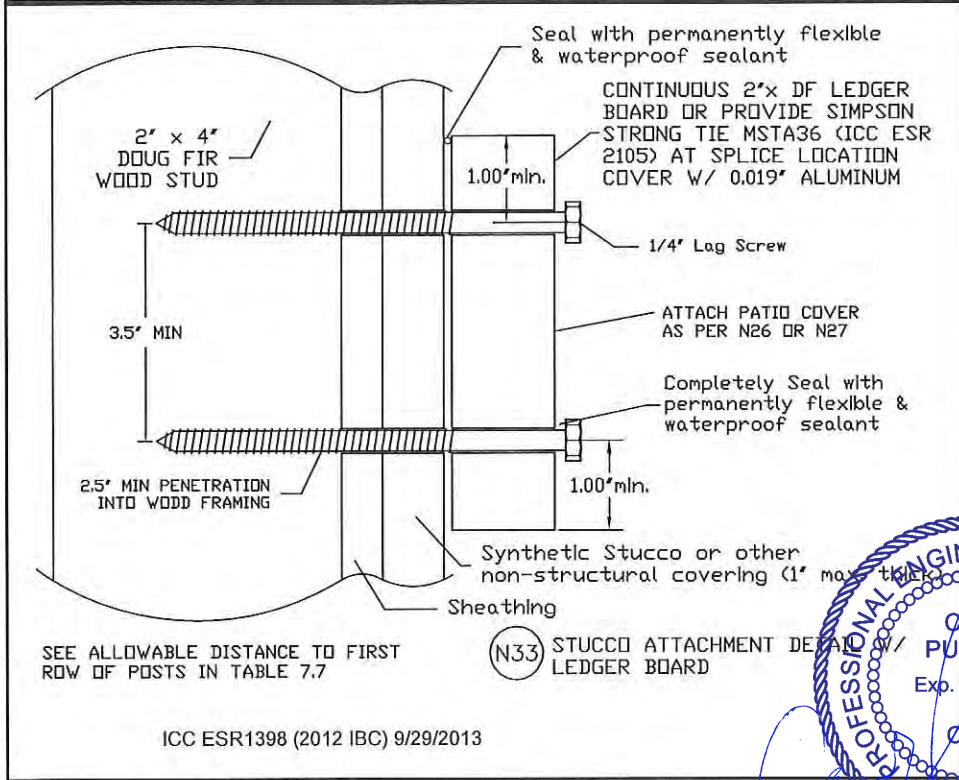
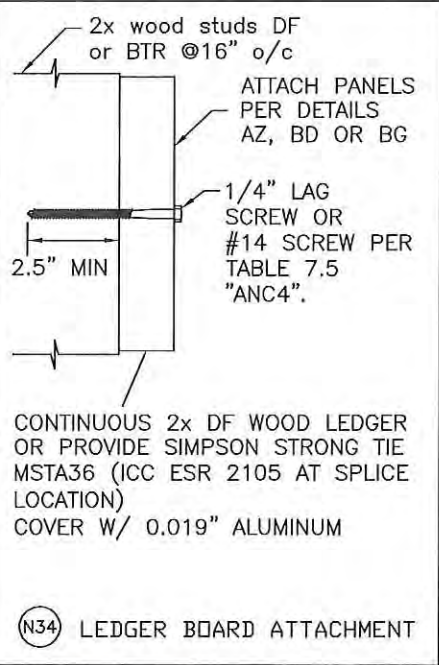
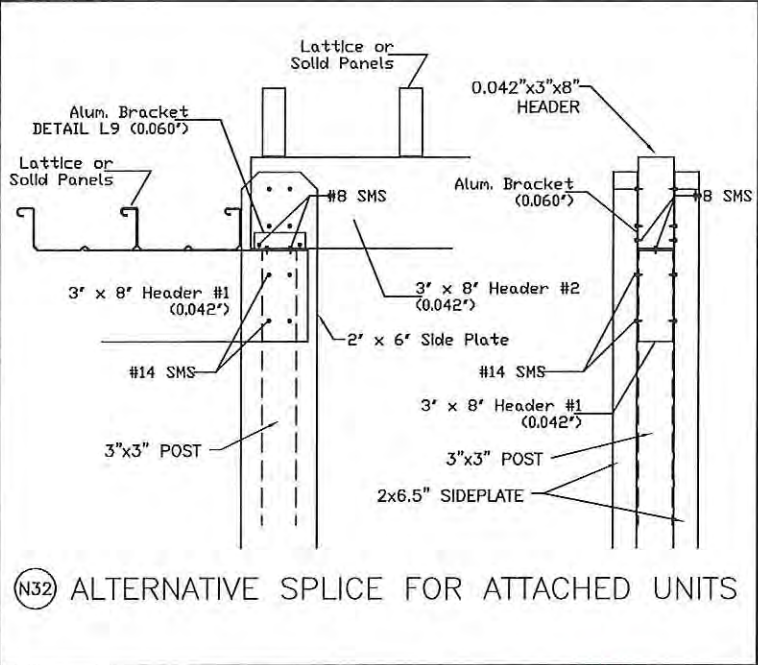
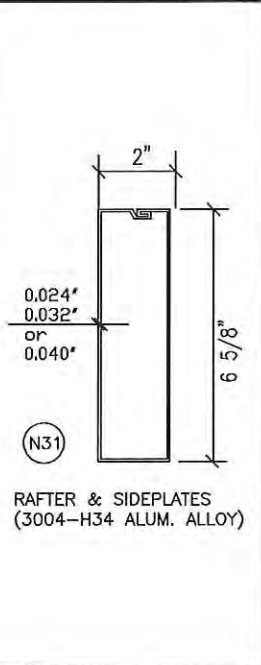
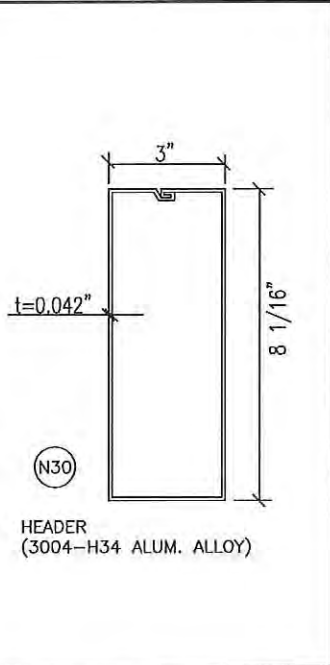
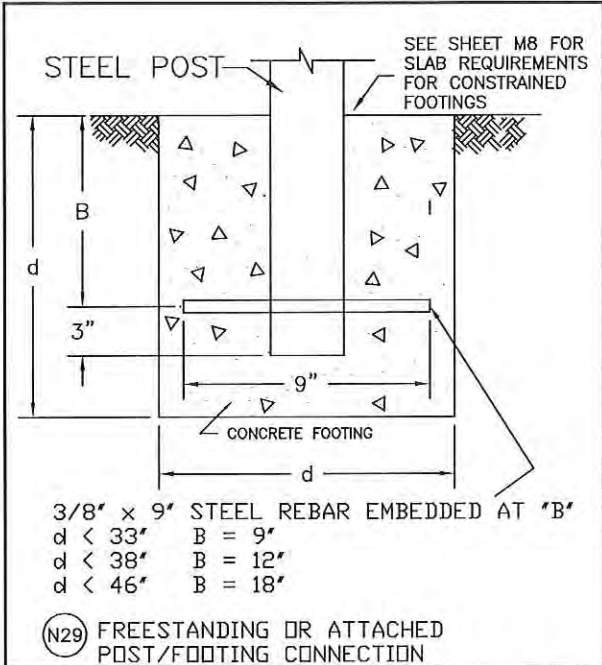


LICENSED PROFESSIONAL ENGINEER  
**CARL PUTNAM**  
 C 68139  
 EXP. 6-30-2015  
 CIVIL  
 STATE OF CALIFORNIA  
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 1-22-14

**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



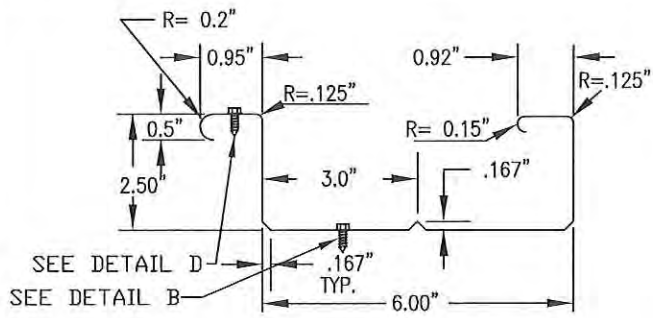
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**Amerimax 2012**  
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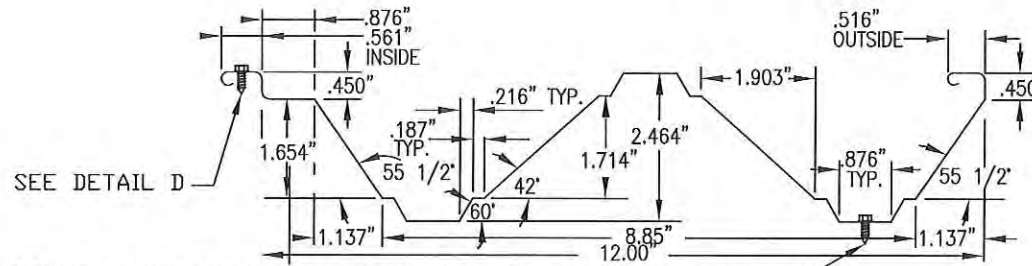
**Amerimax** 28921 US Hwy 74  
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:	NAME: Component Parts & Connection Details for Newport Patio Structures	SHEETS: 4 of 4
SCALE: NTS	DATE:	FILE#: NP04-2012	

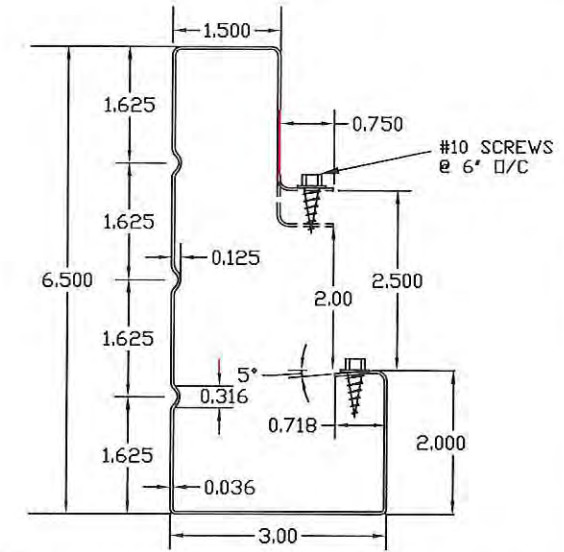
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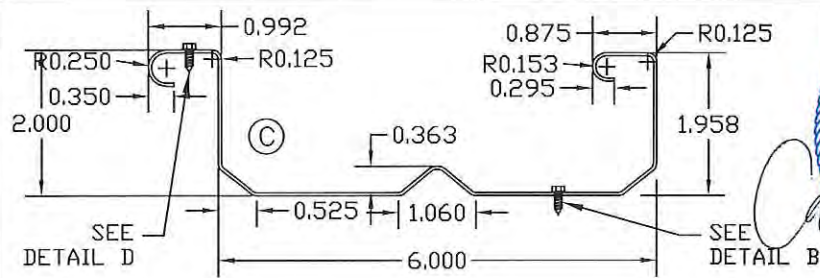
(A) 2.5"x6" SUPER SIX PANEL  
 t = 0.018" 3004H36  
 t > 0.018" 3004H34



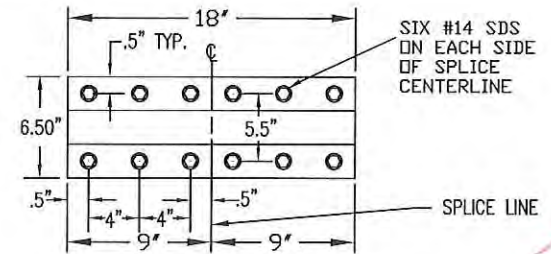
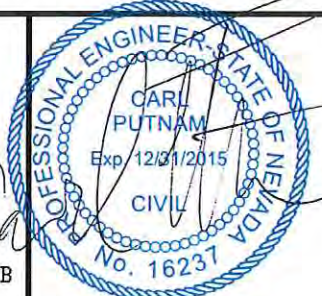
SEE DETAIL D  
 ATTACH TO TOP OF HEADER BEAM AS PER TABLES 4.9 OR 4.10  
 OR ATTACH PER STRUCTURAL FASCIA DETAILS  
 (B) 2.5"x12" MARK X ALUMINUM PANEL  
 0.018"-0.032" 3004 H36  
 0.036" 3004 H34



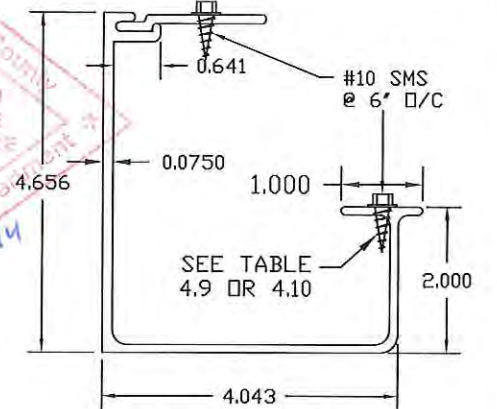
(E) 6 1/2" ROLLFORMED FASCIA 3004H34 ALLOY



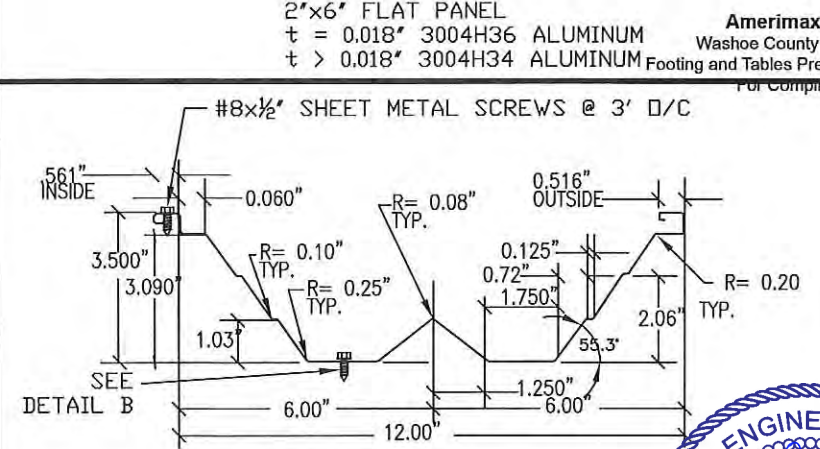
(C) 2"x6" FLAT PANEL  
 t = 0.018" 3004H36 ALUMINUM  
 t > 0.018" 3004H34 ALUMINUM



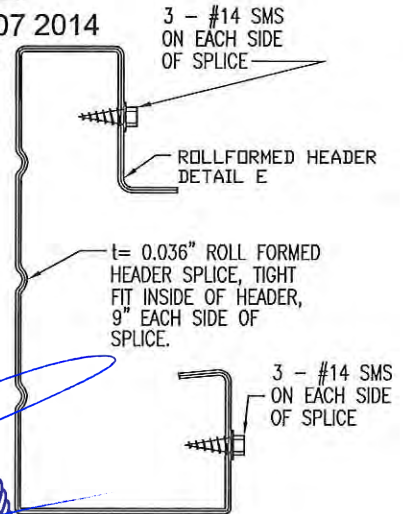
(F) ROLLFORMED HEADER SPLICE  
 (3004-H34 ALUM. ALLOY)



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



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



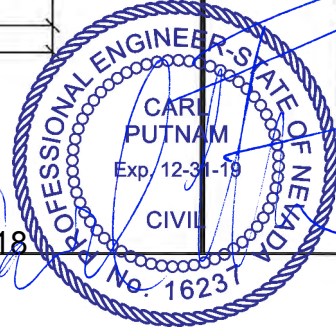
3 - #14 SMS ON EACH SIDE OF SPLICE

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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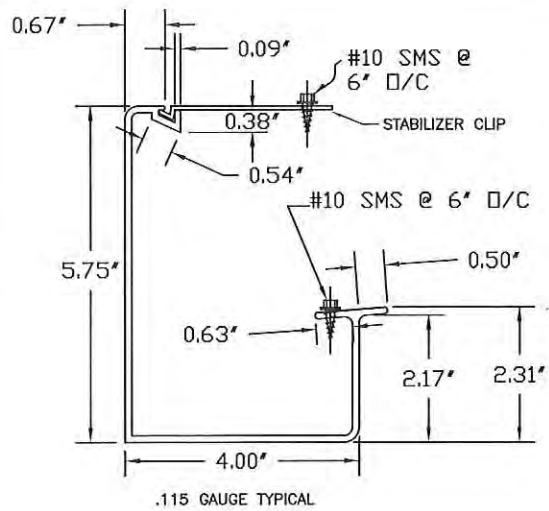
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ICC ESR1398 (2012 IBC) 9/29/2013

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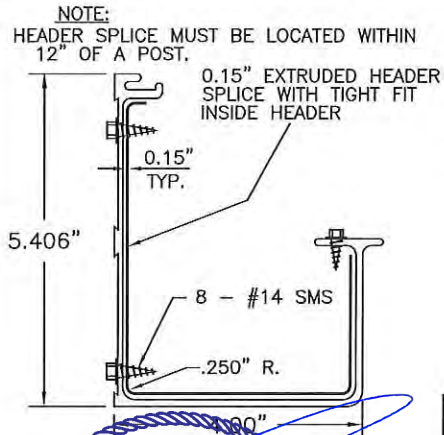
**Amerimax** 28921 US Hwy 74  
 EXTERIOR HOME PRODUCTS Romoland, CA 92585

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

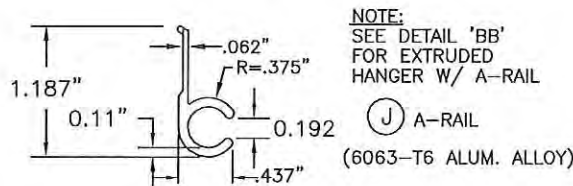


(H) CLASSIC FASCIA  
W/ STABLIZER CLIP  
(6061-T6 Alum. Alloy)

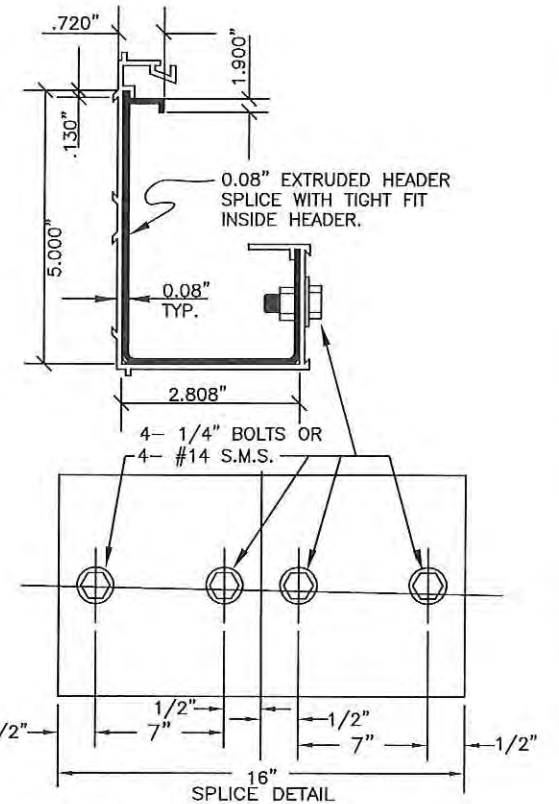
FEB 07 2016



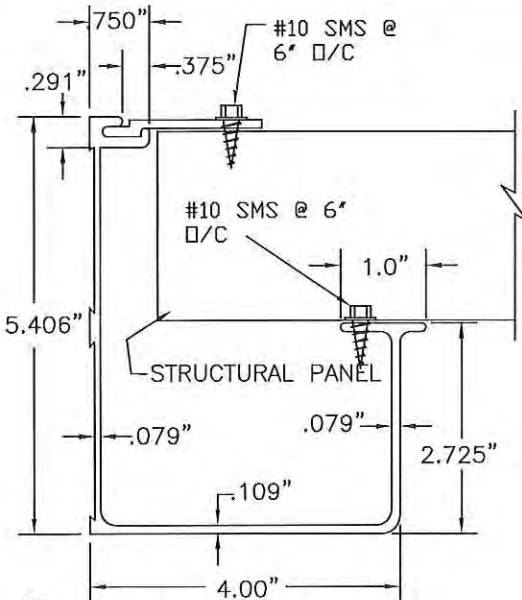
(I) ALASKAN HEADER SPLICE  
(6063-T5 ALUM. ALLOY)



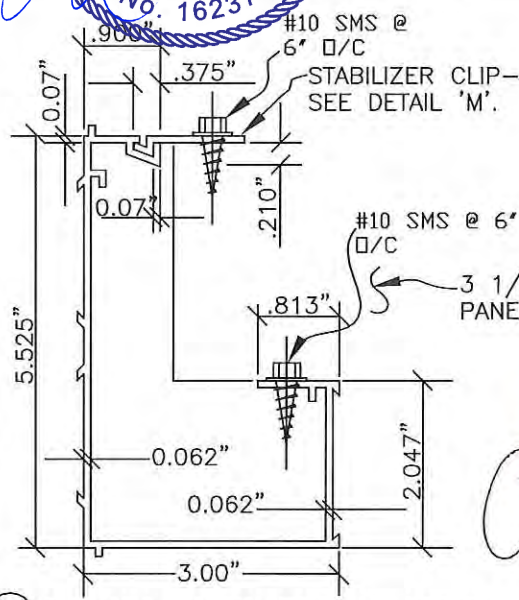
(M) STABILIZER CLIP FOR EXTRUDED  
HEADERS 'H' & 'L'  
(6063-T6 ALUM. ALLOY)



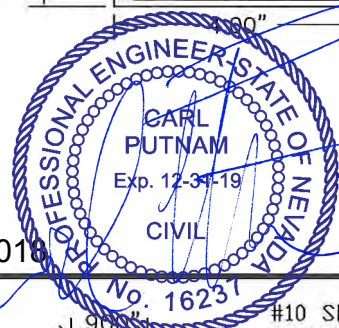
(N) 5 1/2" EXTRUDED HEADER SPLICE  
6063T5 ALUMIMUM ALLOY



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



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For Compliance

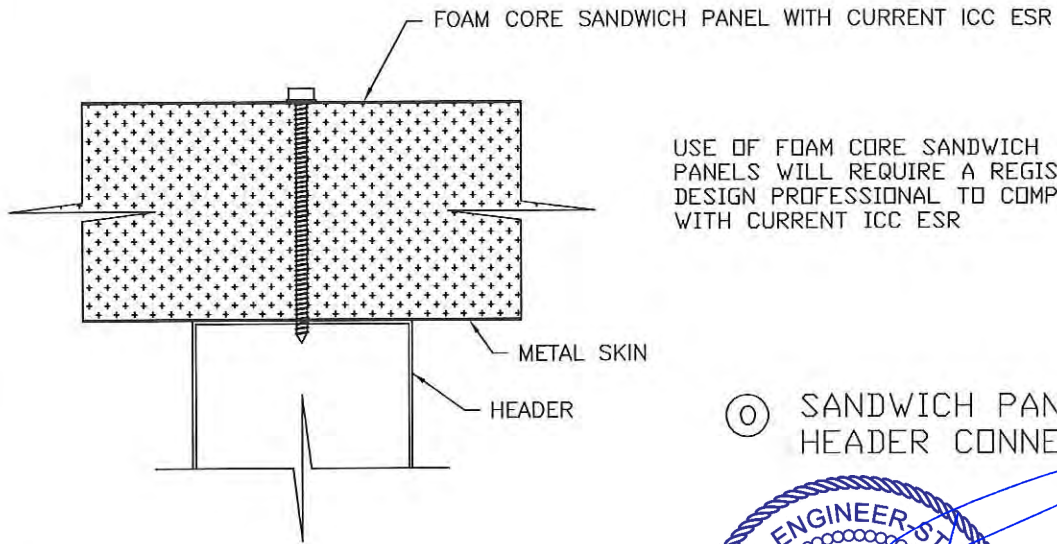
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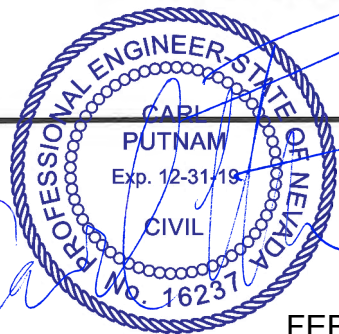
**Amerimax** 28921 US Hwy 74  
EXTERIOR HOME PRODUCTS Romoland, CA 92585

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

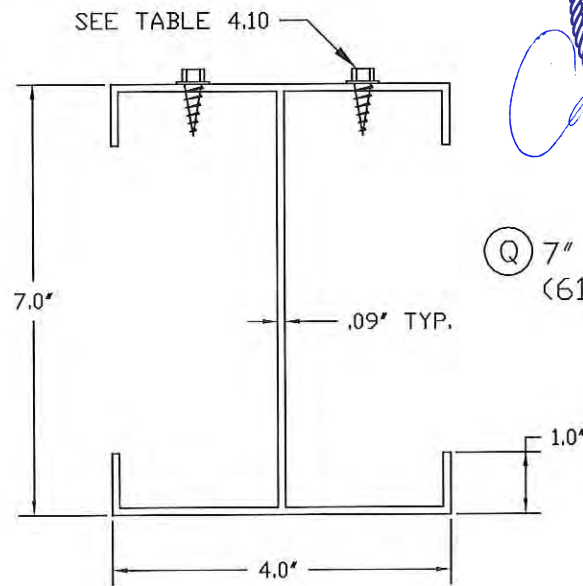


USE OF FOAM CORE SANDWICH PANELS WILL REQUIRE A REGISTERED DESIGN PROFESSIONAL TO COMPLY WITH CURRENT ICC ESR

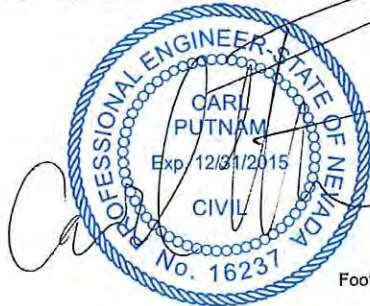
Ⓞ SANDWICH PANEL TO HEADER CONNECTION



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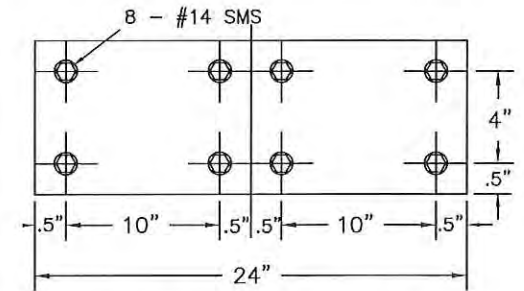
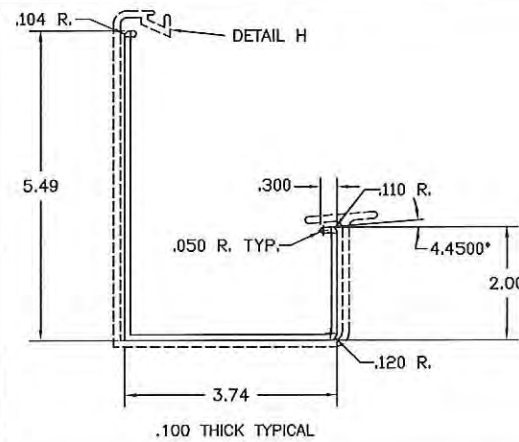


Ⓚ 7" x 4" I BEAM HEADER (6105-T5 ALUM. ALLOY)

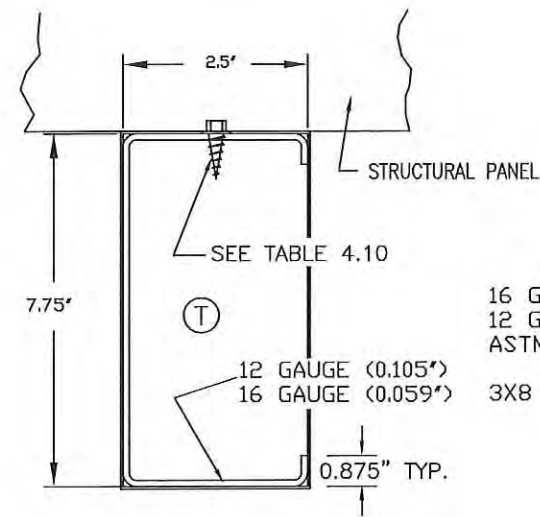


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Ⓟ CLASSIC ALASKAN HEADER SPLICE (6063 T5 ALUM. ALLOY)



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

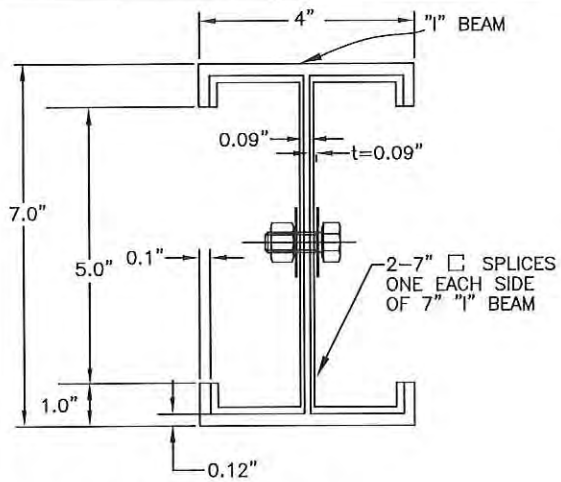


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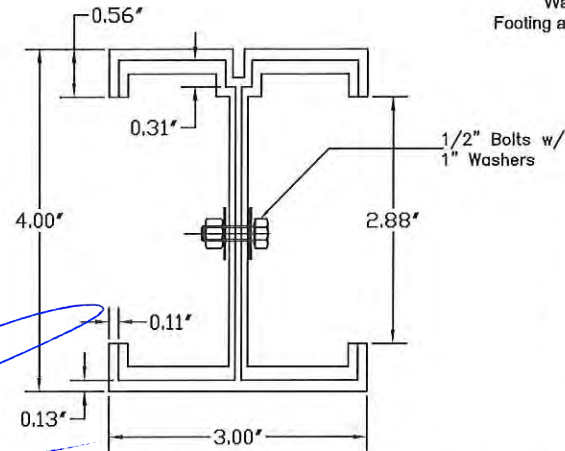
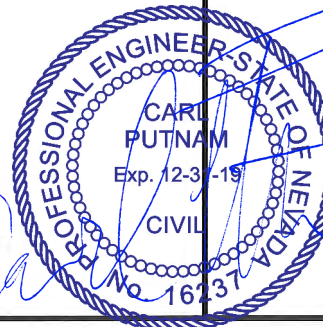
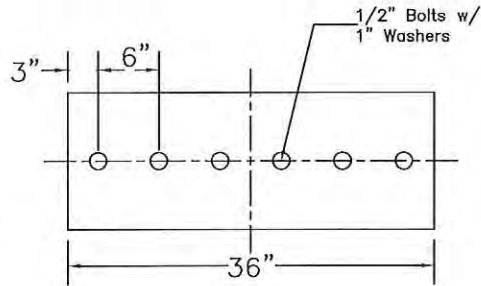
**Amerimax** 28921 US Hwy 74  
EXTERIOR HOME PRODUCTS Romoland, CA 92585

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



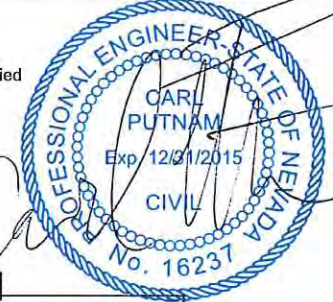
7" X 4" I-BEAM SPLICE  
(6105-T5 ALUM. ALLOY)

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

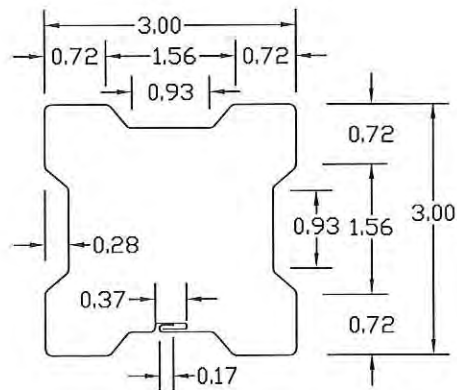


Ⓧ 4"X3" I BEAM FULL STRENGTH  
SPLICE BOLT LAYOUT  
6063-T6 ALUMINUM ALLOY

Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance



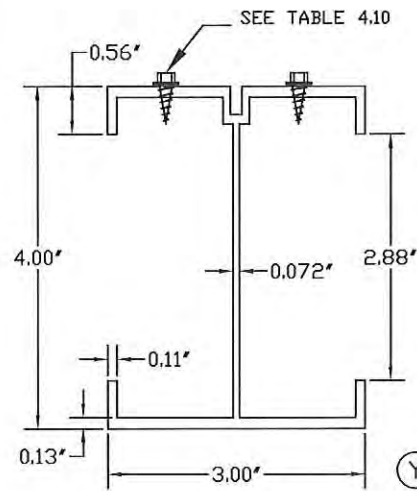
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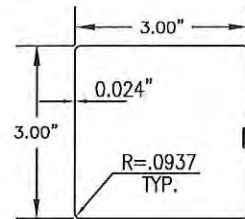
t = 0.041"

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

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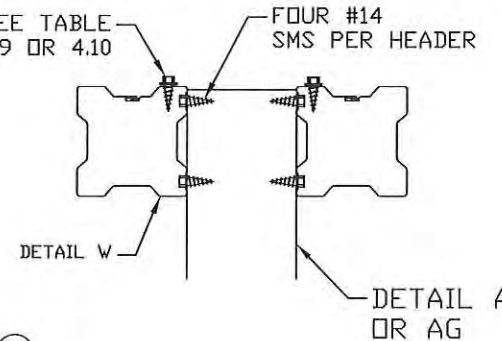


Ⓨ 4"X3" I BEAM  
6063-T6 ALUM



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

SEE TABLE 4.9 OR 4.10



ⓐ

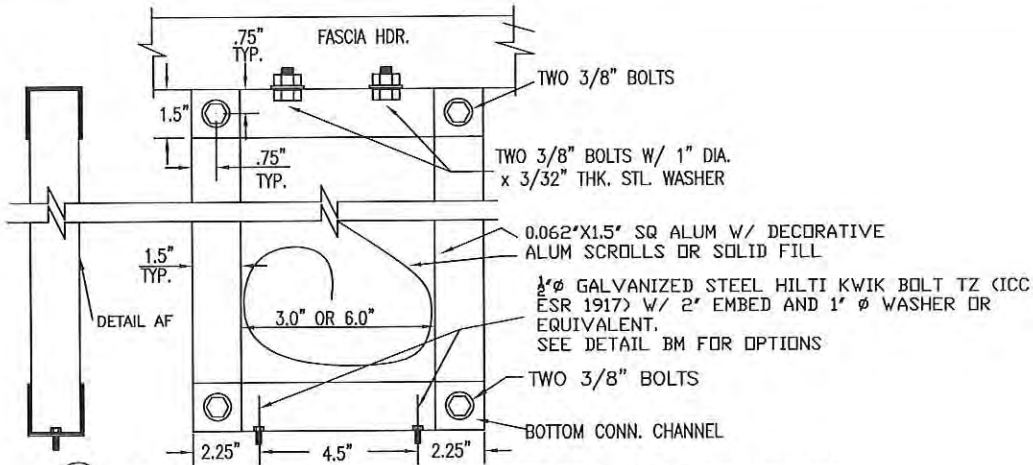
DOUBLE STEEL CLOVERLEAF HEADER  
ASTM A653 GRADE 40



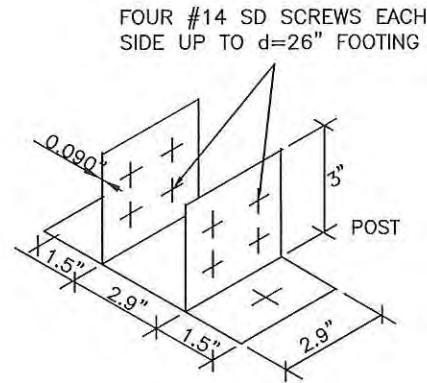
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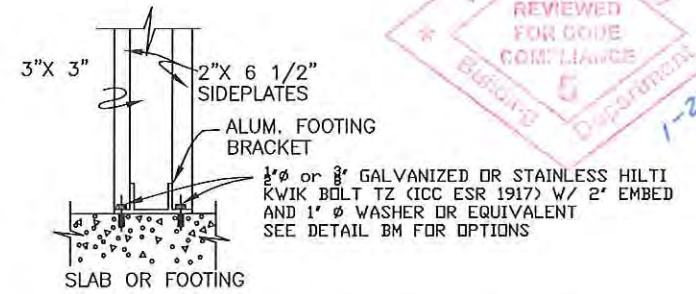




**(AC)** SCROLL POST CONNECTION TO CONCRETE SLAB OR FOOTING  
 BRACKET = 6063 T6 ALUM ALLOY  
 POST = DETAIL AF  
 ONLY USABLE FOR SINGLE SPAN ATTACHED UNITS

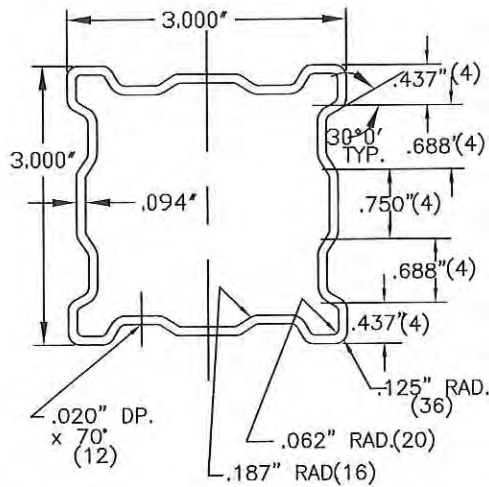


**(AD)** ALUMINUM FOOTING BRACKET FOR CONNECTING TO CONCRETE SLAB OR FOOTING  
 6063 T6 ALUM ALLOY  
 ONLY USABLE FOR SINGLE SPAN ATTACHED UNITS

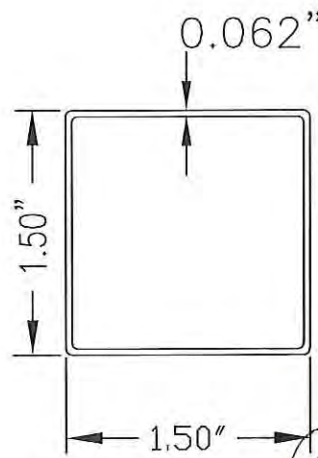


**(AE)** COLONIAL POSTS  
 (3" ALUM. 6063-T6)  
 "t" = 0.062" UNLESS OTHERWISE NOTED

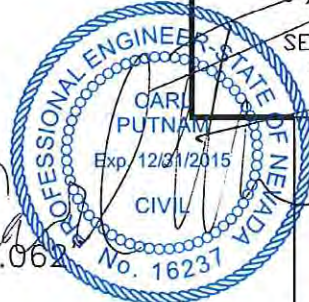
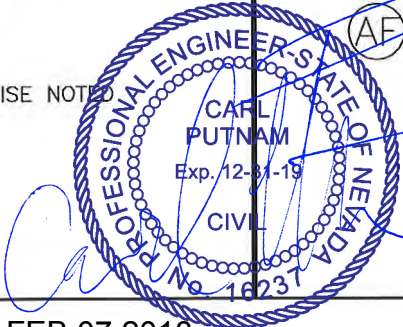
**(AH)** 3" ALUM OR STEEL CLOVERLEAF POST  
 (3105 H25 OR ASTM A653 GRADE 40 STEEL)



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



**(AG)** 3", 4", 5" or 6" ASTM A500 GRADE B STEEL POST  
 SEE GENERAL NOTE #9 FOR CORROSION PROTECTION



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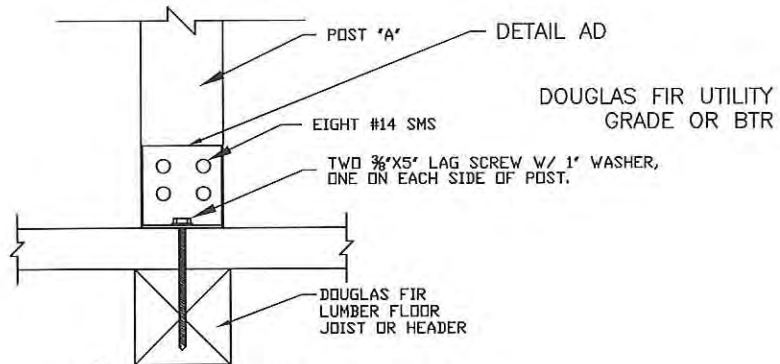
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 EXTERIOR HOME PRODUCTS Romoland, CA 92585

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DATE:	FILE: CD05-2012
	SHEET: 5 of 9

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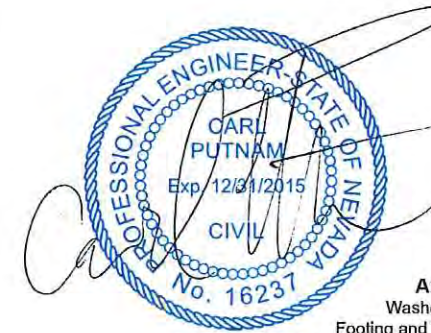
(AL) ATTACHED STRUCTURE POST TO FLOOR JOIST

POST SPACING IS RESTRICTED TO THE 'ON 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

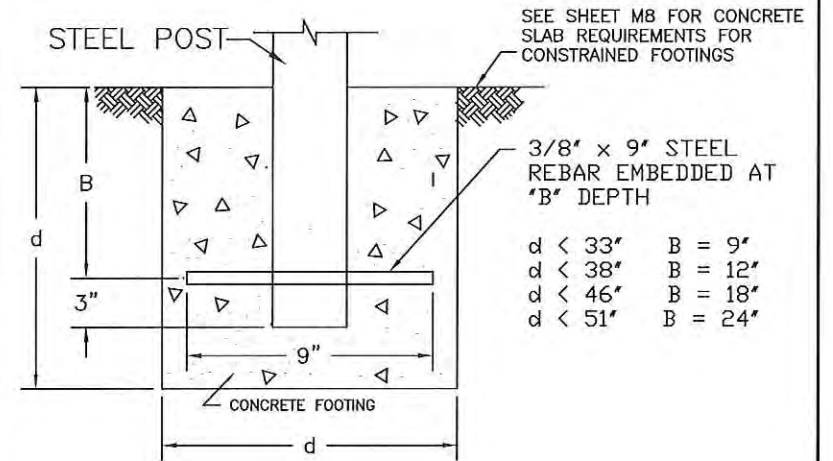


FOR 20 PSF OR GREATER SNOW/LIVE LOAD  
MAXIMUM WINDSPEED IS  
150 MPH EXP C



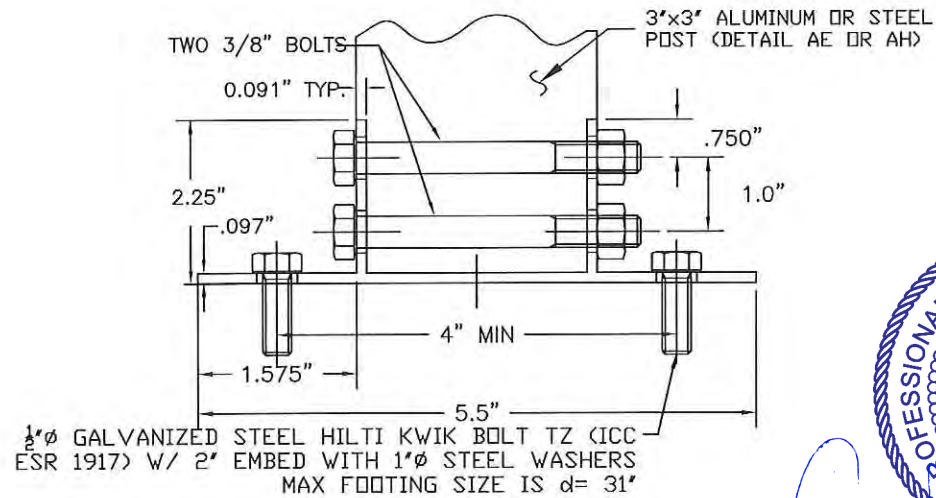
JAN 07 2014

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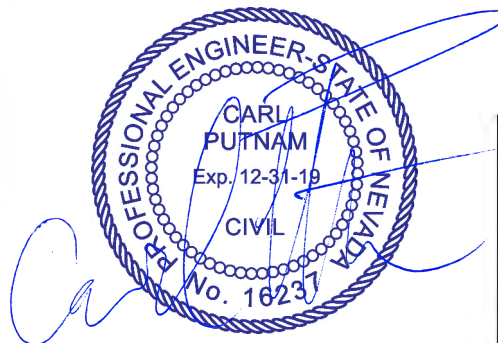


$d < 33"$  B = 9"  
 $d < 38"$  B = 12"  
 $d < 46"$  B = 18"  
 $d < 51"$  B = 24"

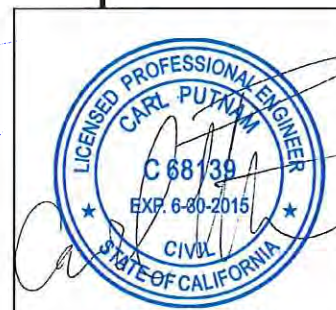
(AQ) FREESTANDING OR ATTACHED STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL



(AP) POST TO FOOTING ATTACHMENT DETAIL  
SINGLE SPAN ATTACHED UNITS ONLY



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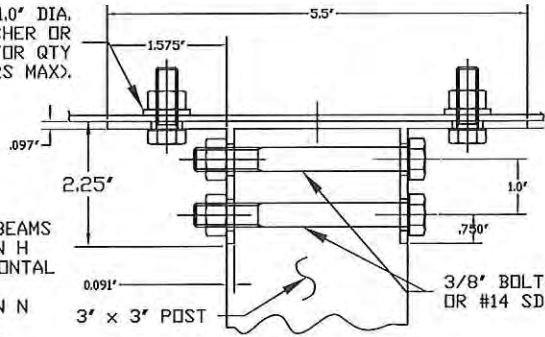
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**Amerimax** 28921 US Hwy 74  
EXTERIOR HOME PRODUCTS Romoland, CA 92585

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE: CD06-2012
	SHEET: 6 of 9

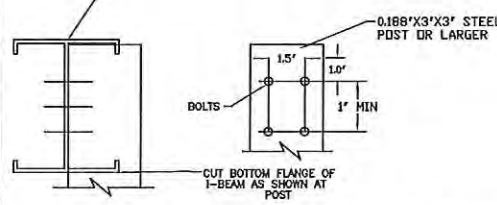
3/8" BOLTS W/ 1.0" DIA. x 3/32" THK. STL. WASHER OR #14 SDS. SEE NOTE FOR QTY (4 FASTENERS MAX).



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

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

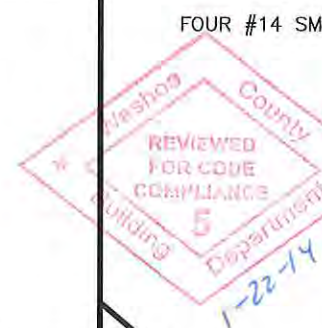
7" x 4" use 4 - 3/8" bolts  
 4" x 3" use 4 - 3/8" bolts



(AS) ALTERNATE - I BEAM TO POST CONNECTION

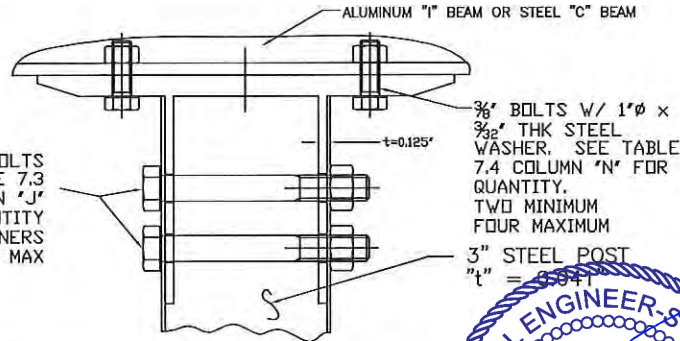
FOUR #14 SMS EACH SIDE

FOUR #14 SMS EACH SIDE

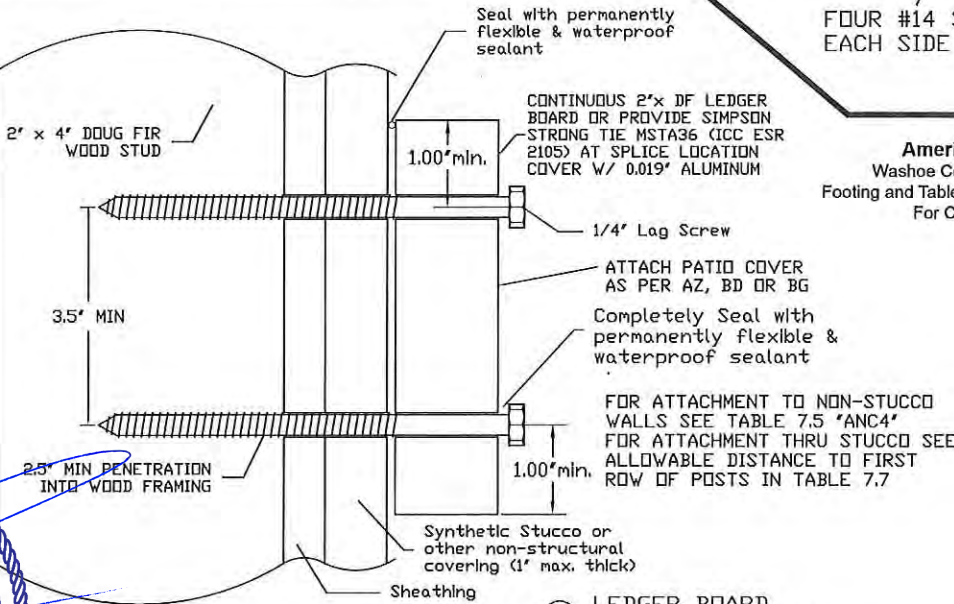


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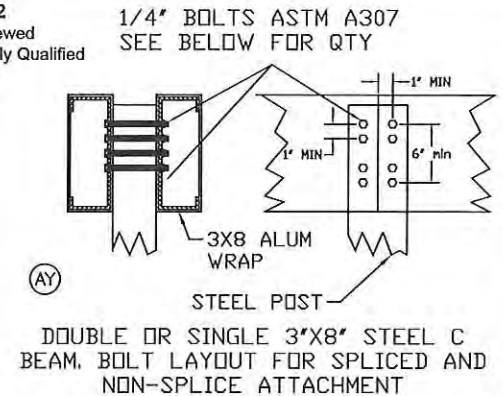
(AU) ALUMINUM 'H' BRACKET FOR CONNECTING COLUMN TO HEADER (6063-T5 ALUM. ALLOY)



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



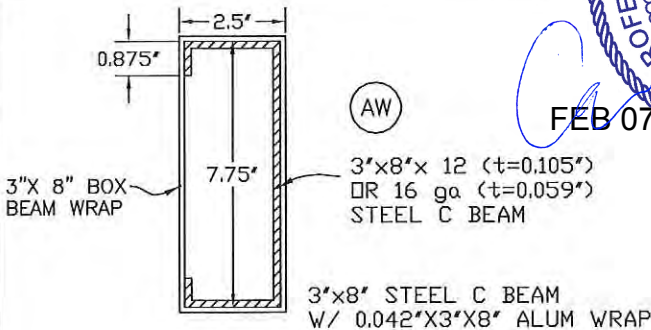
(AV) LEDGER BOARD ATTACHMENT DETAIL



(AY)

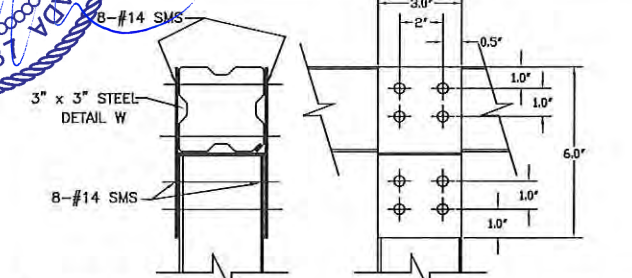
DOUBLE OR SINGLE 3"x8" STEEL C BEAM. BOLT LAYOUT FOR SPLICED AND NON-SPLICE ATTACHMENT

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)

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

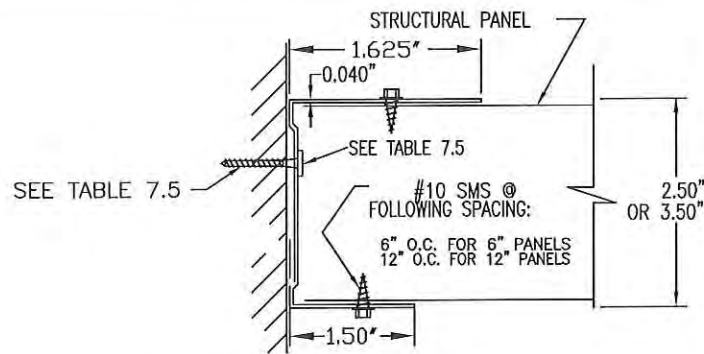


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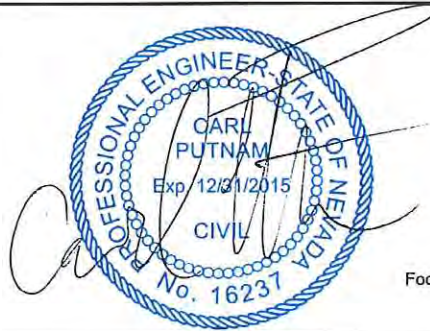
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DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE#: CD07-2012
	SHEET: 7 of 9

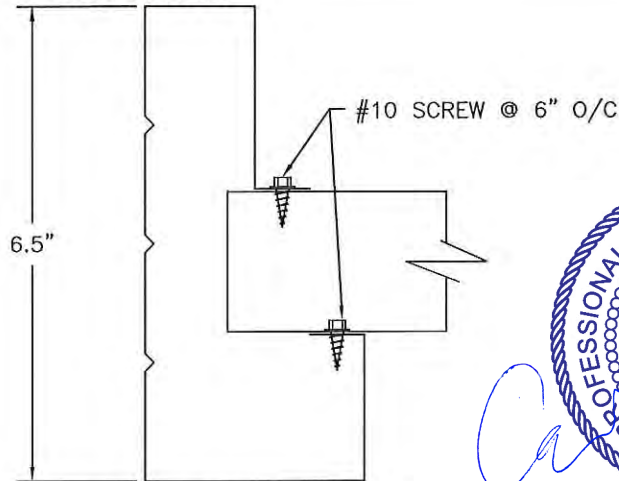


(AZ) ROLLFORMED HANGER (3004-H34 ALUM. ALLOY)

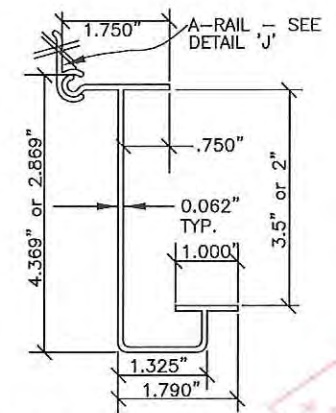


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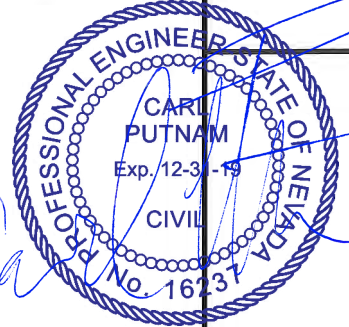
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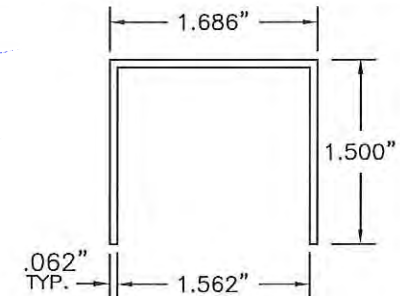
(BE) ROLLFORMED HEADER 'E' CONN. DETAILS TO STRUCTURAL PANELS



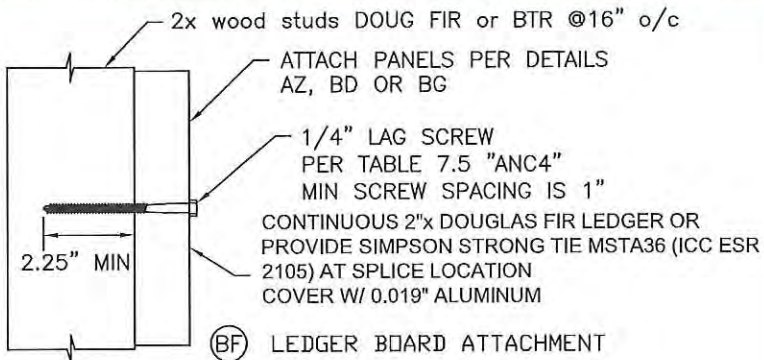
(BB) 3 1/2" "J" HANGER (6063-T6 ALUM. ALLOY)



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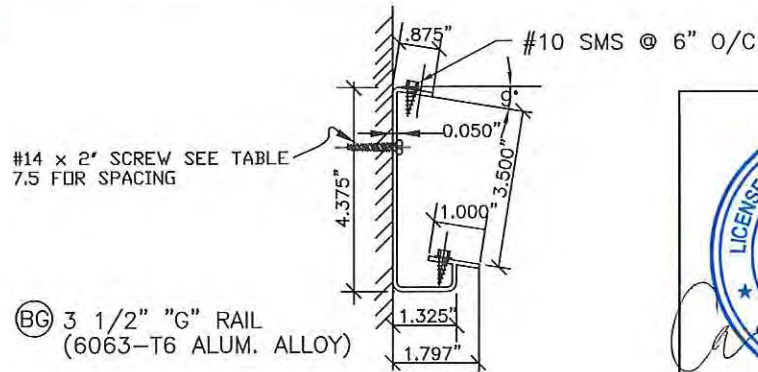


(BH) EXTRUDED CHANNEL CONNECTOR (6063-T6 ALUM. ALLOY)



(BF) LEDGER BOARD ATTACHMENT

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

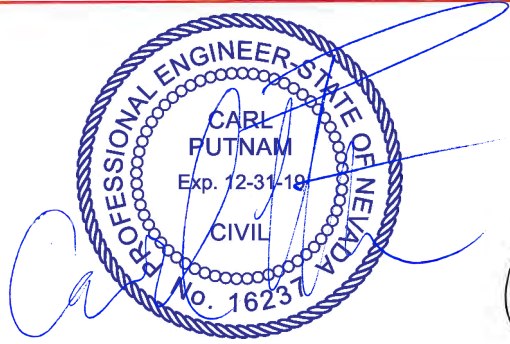


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SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE: CD08-2012
SHEET: 8 of 9	

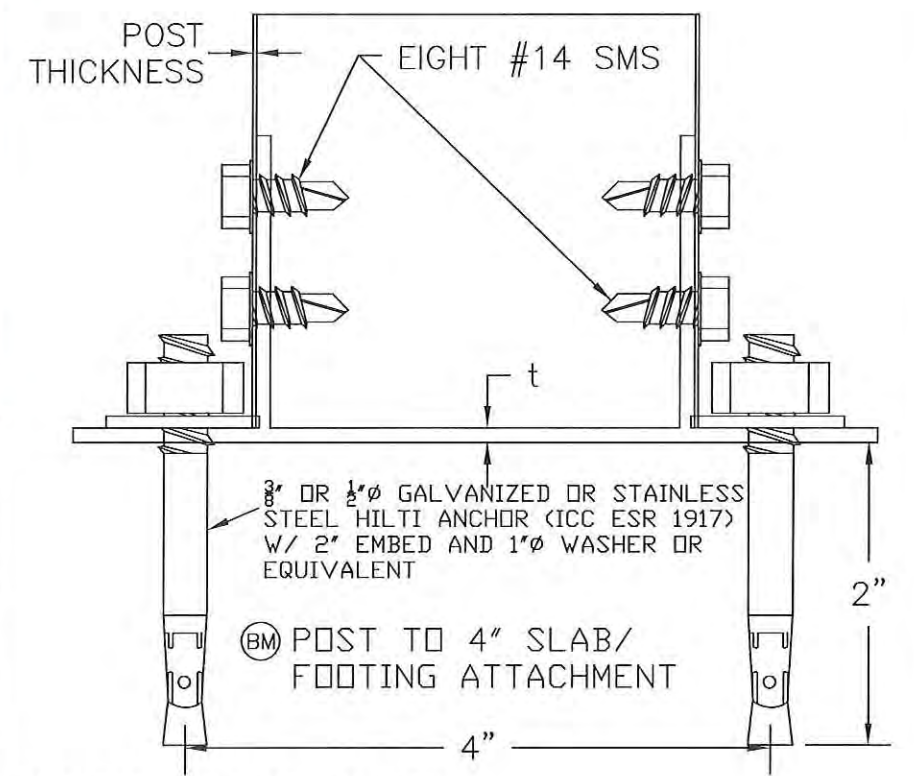
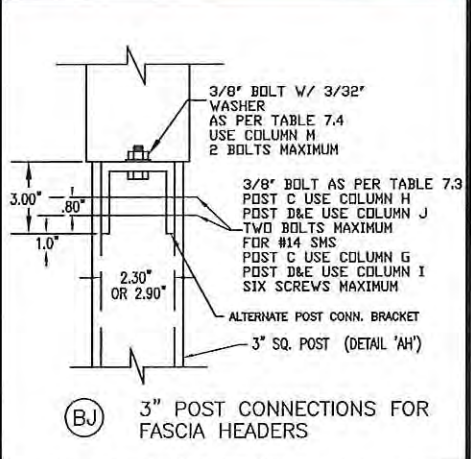
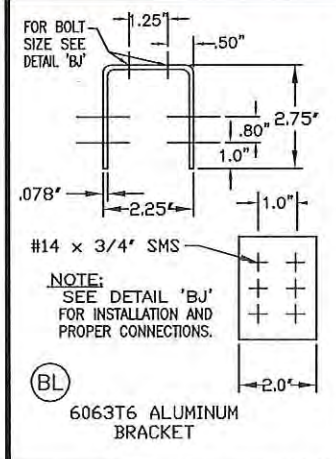
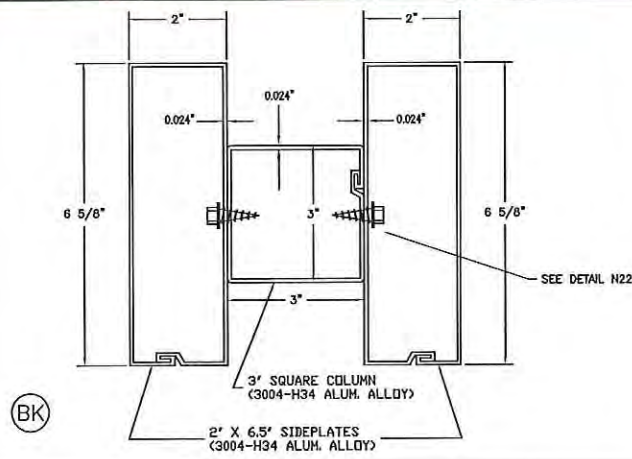


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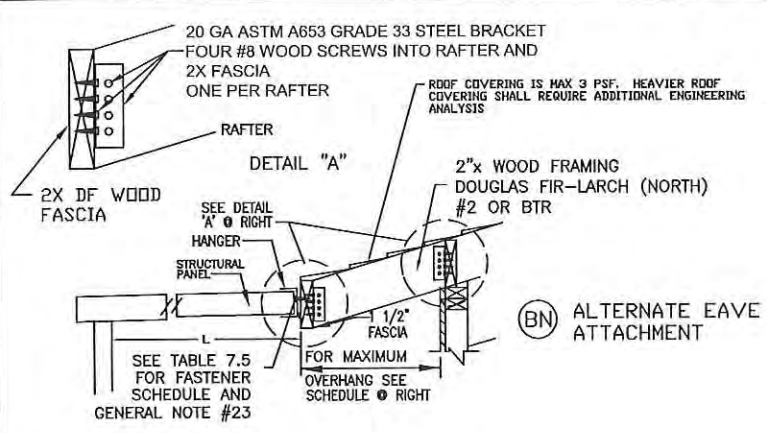


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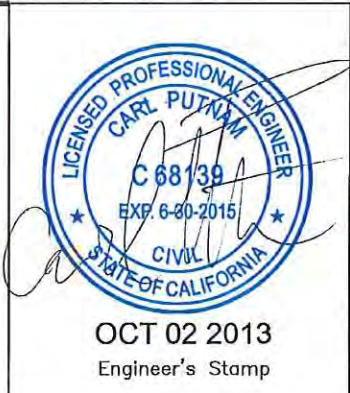
ALUMINUM BRACKET 6063T6  
 $t = 0.090'' \gg$  SLAB ATTACH FOR 140 EXP C  
 $t = 0.090'' \gg$  FOOTING  $d = 31''$  MAX  
 $t = 0.160'' \gg$  FOOTING  $d = 37''$  MAX WITH DETAIL AH  
 STEEL POST



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"

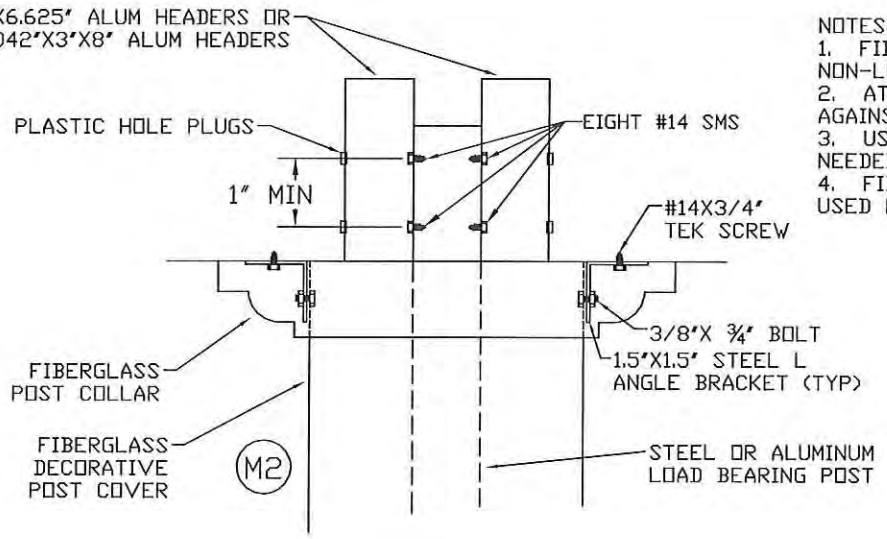
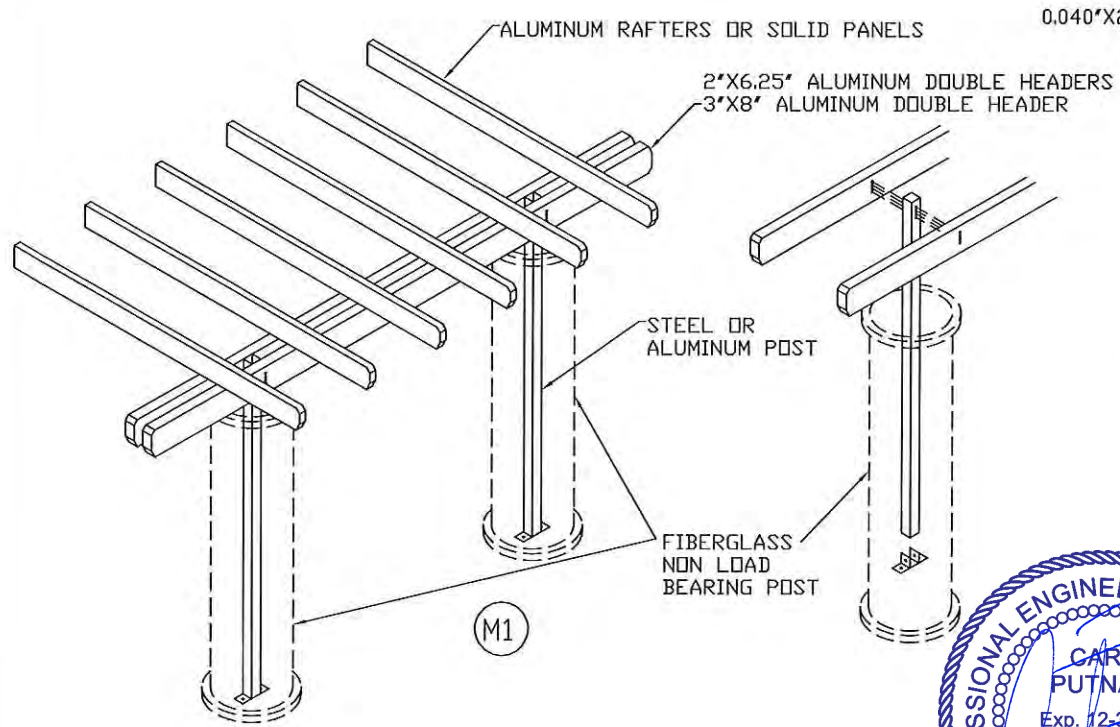
ATTACHMENT TO MANUFACTURED TRUSS TAILS REQUIRES TRUSS ENGINEERING REVIEW AND DESIGN APPROVAL BY A TRUSS DESIGN ENGINEER

Live/Snow Load	Rafter Size	15'-0"	12'-0"	9'-2"	6'-7"	5'-1"	3'-4"	2'-8"	1'-0"
30 psf 140 MPH EXP C	2x4	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	10'-4"	7'-1"	14'-8"
	2x6	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	10'-4"	7'-1"	14'-8"
40 psf	2x4	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	10'-3"	7'-1"	14'-8"
	2x6	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	10'-3"	7'-1"	14'-8"
60 psf	2x4	9'-10"	9'-10"	9'-10"	9'-10"	9'-10"	8'-8"	5'-10"	5'-10"
	2x6	9'-10"	9'-10"	9'-10"	9'-10"	9'-10"	8'-8"	5'-10"	5'-10"
	2x8	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	8'-8"	5'-10"	5'-10"

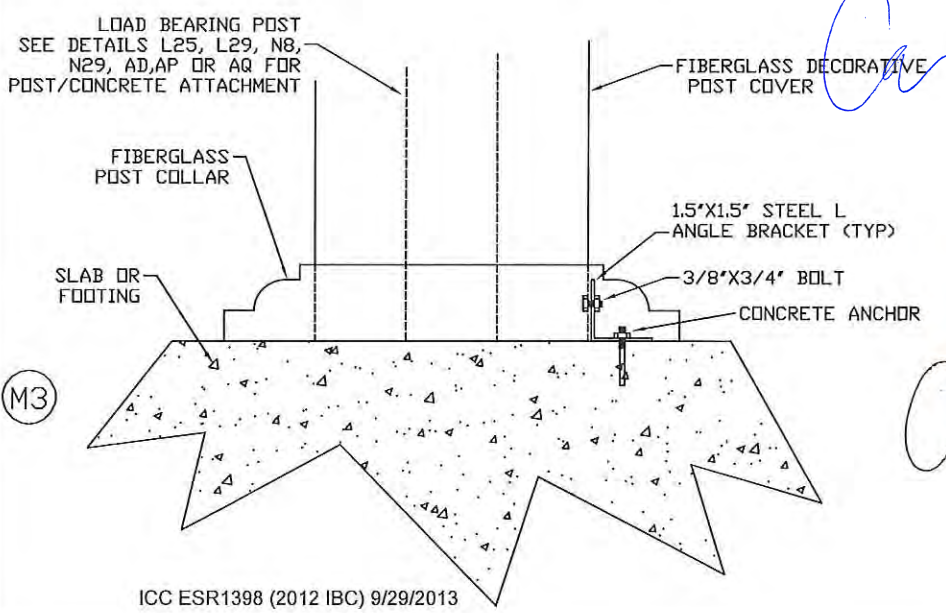


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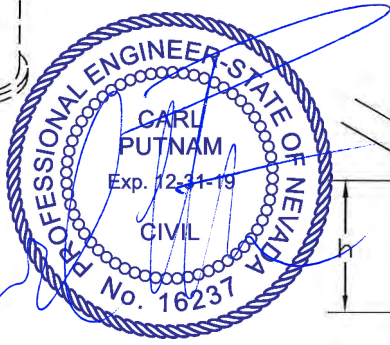
DRAWN BY: BEJ/CP TYPE:  
 SCALE: NTS NAME: Component Parts & Connection Details  
 DATE: FILE#: CD09-2012 SHEET: 9 of 9



- 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.



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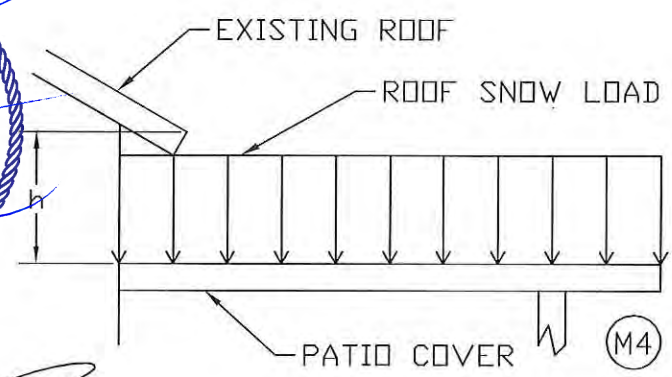


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STRUCTURES COMPLYING WITH THIS DETAIL DO NOT REQUIRE ADDITIONAL DRIFTING SNOW CONSIDERATIONS

GROUND SNOW LOAD (PSF)	MAXIMUM "h" (IN)
30	20
40	25
50	30
60	33

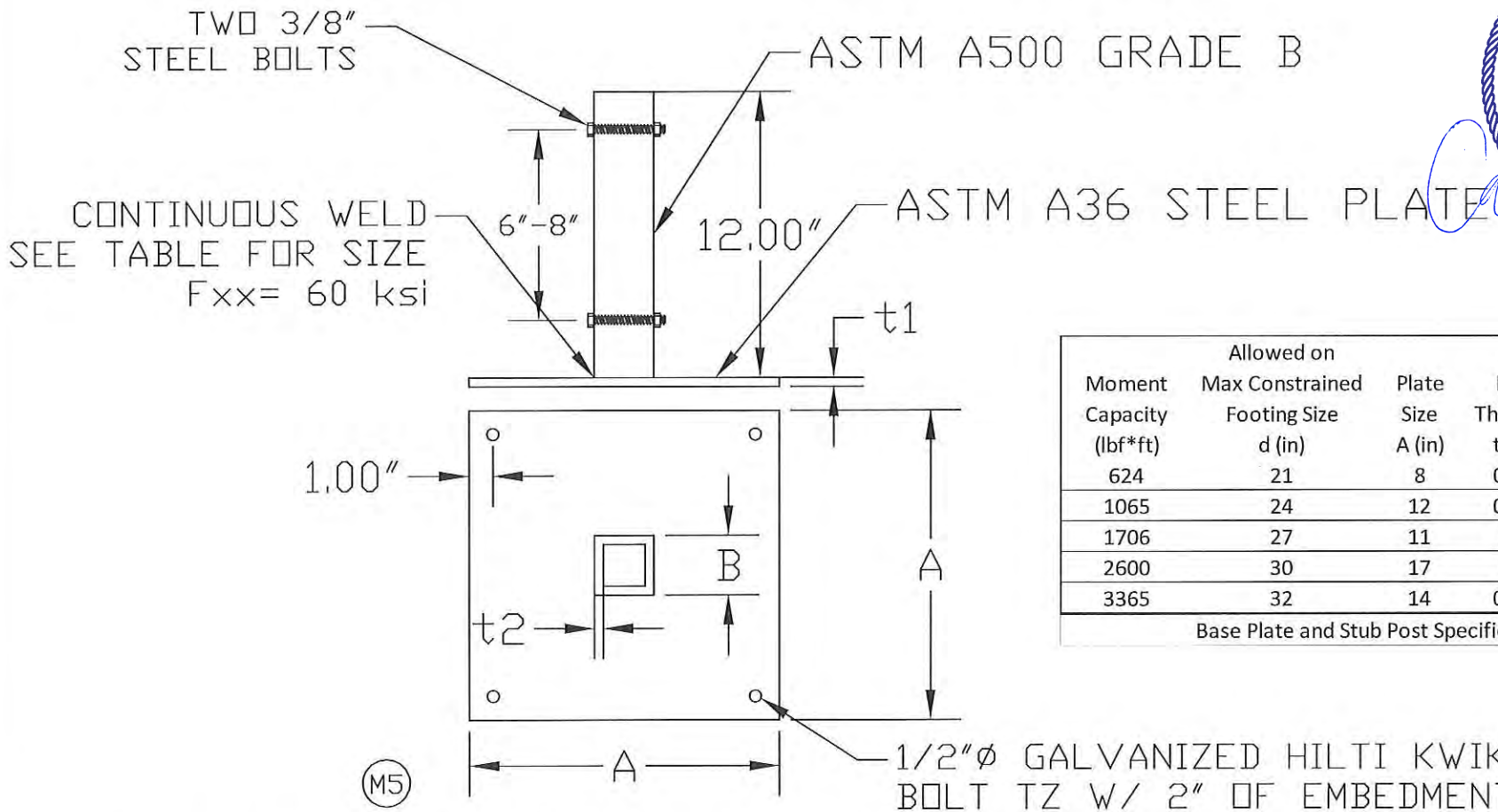


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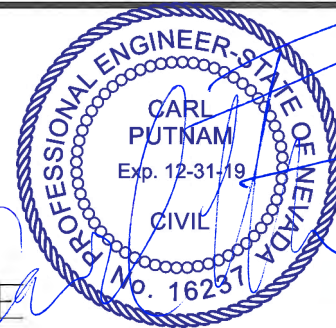
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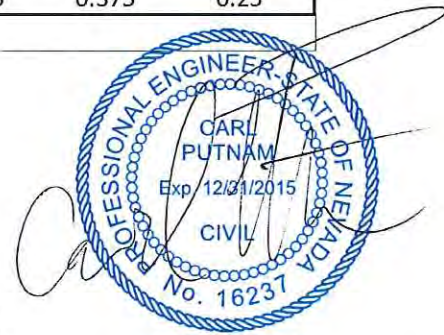
DRAWN BY: CP	TYPE:
SCALE: NTS	NAME: Miscellaneous Details
DATE:	FILE: Misc1a-2012
SHEET:	



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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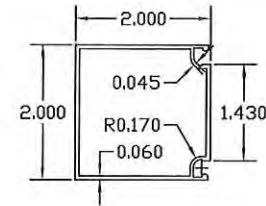
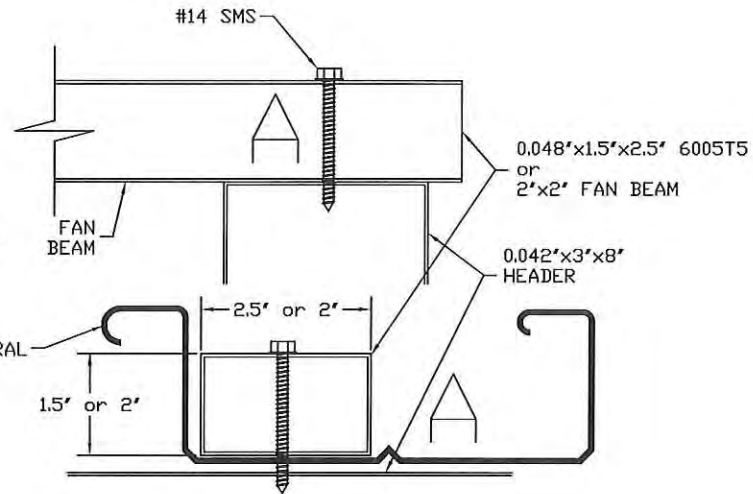
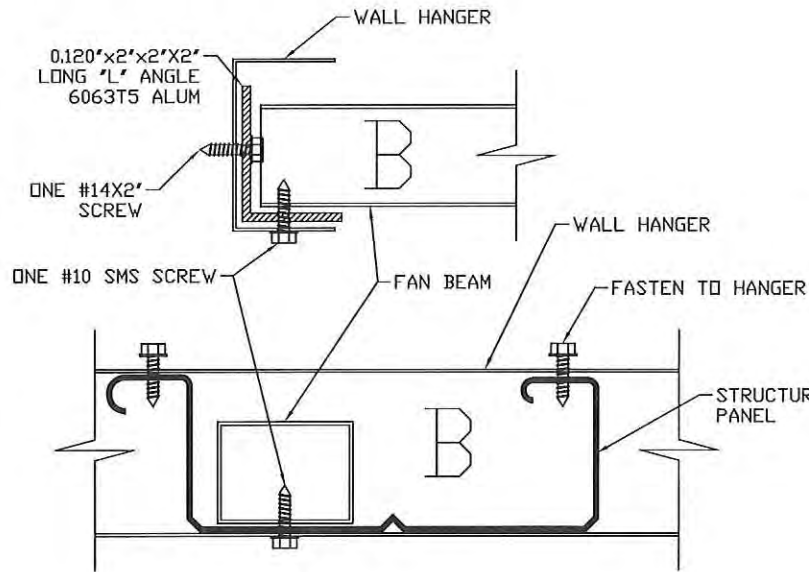


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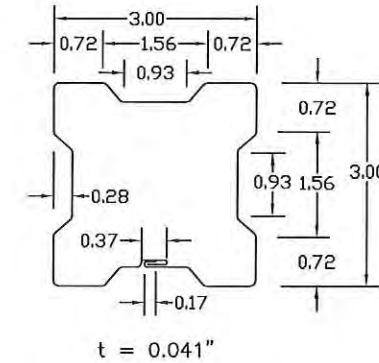
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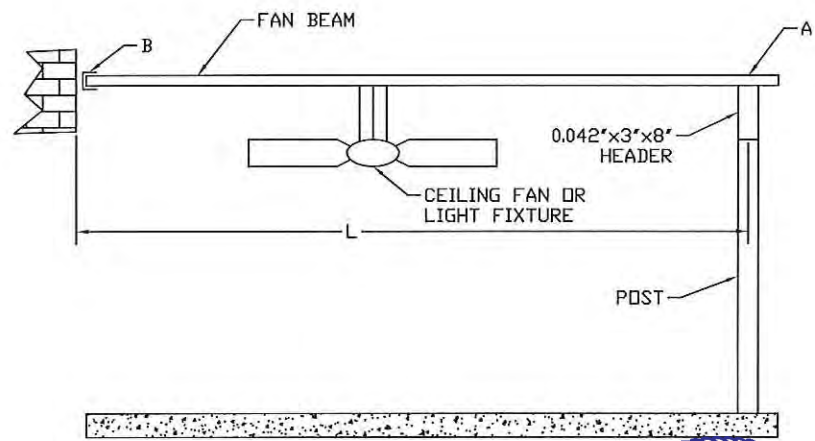
DRAWN BY: CP	TYPE:
SCALE: NTS	NAME: Miscellaneous Details
DATE:	FILE#: Misc1b-2012
	SHEET:



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

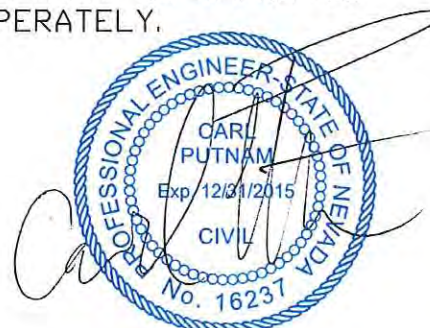
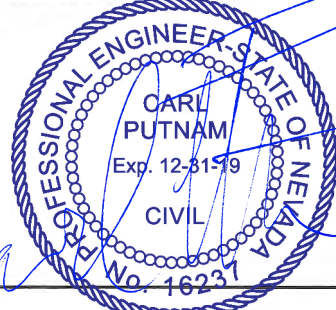


3" X 3" CLOVERLEAF HEADER  
(A-653 Fy=40 KSI STEEL)



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

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3441 Ivylink Place  
Lynchburg, VA 24503

CONVERSION TO SQUARE TOP FOOTING

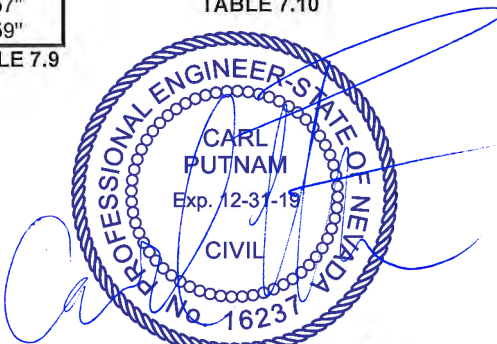
d (in)	For Single Span Attached Footings Only			
	Footings Depth			
	18"	24"	30"	36"
Required Side of Square Footing				
20"	21"	18"	16"	15"
21"	23"	20"	18"	16"
22"	24"	21"	19"	17"
23"	26"	23"	20"	18"
24"	28"	24"	21"	20"
25"	29"	26"	23"	21"
26"	31"	27"	24"	22"
27"	33"	29"	26"	23"
28"	35"	30"	27"	25"
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)
	140 mph Exp C	Footing (in)	
15	20"	25	25
20	21"	33	33
25	23"	42	42
30	25"	50	50
35	26"	58	58
40	27"	67	67
45	28"	75	75
50	29"	83	83
55	30"	92	92
60	31"	100	100
65	32"	108	108
70	33"	117	117
80	34"	133	133
90	35"	150	150
100	37"	167	167
110	38"	183	183
120	39"	200	200
130	40"	217	217
140	41"	233	233
150	42"	250	250
160	43"	267	267
170	44"	283	283
180	45"	300	300
190	45"	317	317
200	46"	333	333
210	47"	350	350
220	48"	367	367
230	48"	383	383
240	49"	400	400

TABLE 7.10



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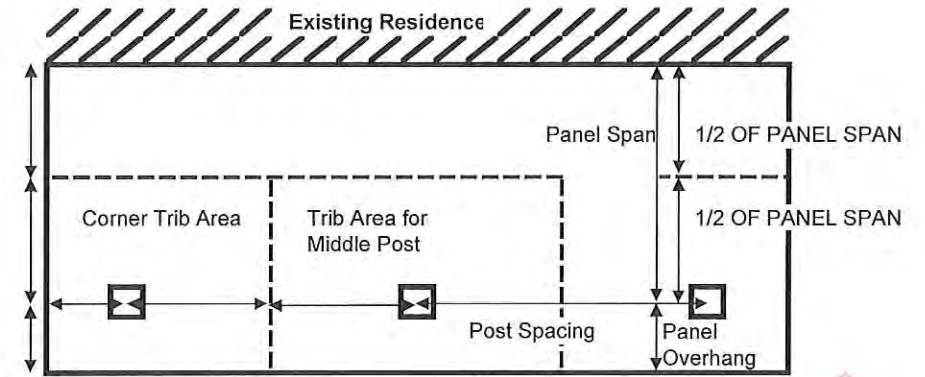


Figure 1

Determine Trib Area from Figure 1

INSTRUCTIONS TO USE TABLE 7.10

- TABLE IS FOR SINGLE SPAN ATTACHED UNITS ONLY
- 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
- DETERMINE FOOTING SIZE FOR WIND CONDITION
- FOR LATTICE USE LAST COLUMN FOR TRIB AREA

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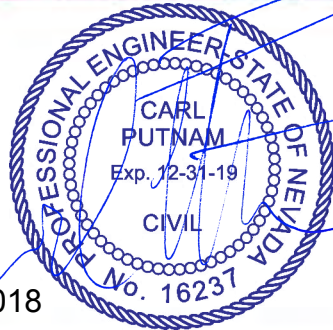


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7.0 Requirements for Surface Mounted Posts on Concrete Slabs or Footings for Single Span Attached Lattice Structures

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 lbf*ft						Table L1b: Use this table for the following headers Moment Frame B = 489 lbf*ft																	
Wind Speed	Required Number of Posts	Post Height (ft)					Post Height (ft)																
		8'	9'	10'	11'	12'	8'	9'	10'	11'	12'												
Wind Exposure B			Wind Exposure C			Wind Exposure B			Wind Exposure C														
MAXIMUM TRIBUTARY WIDTH ALLOWED																							
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'



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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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 Lynchburg, VA 24503



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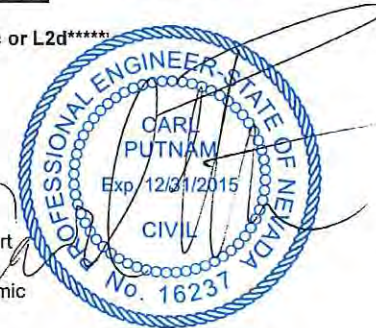
Seismic Size Requirements			
Table L2a Moment Frame A		Table L2b Moment Frame B	
Ss	Size Allowed (cubic feet)	Ss	Size Allowed (cubic feet)
20%	1575	20%	2099
30%	1050	30%	1399
40%	788	40%	1050
50%	720	50%	960
60%	600	60%	800
70%	514	70%	685
80%	525	80%	700
90%	467	90%	622
100%	420	100%	560
110%	417	110%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



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

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



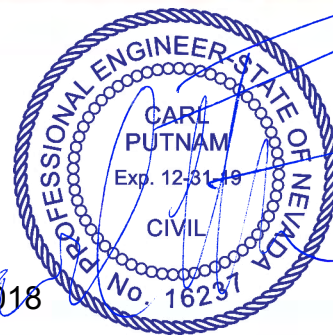
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\*no check needed for Patio Covers attached to slab under these conditions  
 \*\*no check needed for Patio Covers that are 10' tall attached to slab under these conditions  
 \*\*\*no check needed for Patio Covers that are 8' tall attached to slab 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.

Misc5a-2012

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 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)					Post Height (ft)																
		8'	9'	10'	11'	12'	8'	9'	10'	11'	12'												
			Wind Exposure B			Wind Exposure C																	
MAXIMUM TRIBUTARY WIDTH ALLOWED																							
130 mph	2 or 3	7.5'	6'	4.5'	3.5'	2.5'	4'	3'	2'	1'	0'	130 mph	2 or 3	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'		4	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'		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'		6	15'	15'	15'	15'	15'	15'	15'	15'	14'	12'
	7	15'	15'	15'	15'	15'	15'	15'	12.5'	11'	9'		7	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'



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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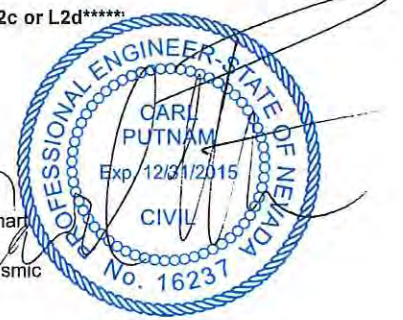
Seismic Size Requirements			
Table L2c Moment Frame C		Table L2d Moment Frame D	
Ss	Size Allowed (cubic feet)	Ss	Size Allowed (cubic feet)
20%	2301	20%	3404
30%	1534	30%	2269
40%	1150	40%	1702
50%	1052	50%	1556
60%	877	60%	1297
70%	751	70%	1112
80%	767	80%	1135
90%	682	90%	1009
100%	614	100%	908
110%	608	110%	900
120%	558	120%	825
130%	566	130%	838
140%	526	140%	778
150%	491	150%	726



Amerimax 2012  
 \*\*\* Washoe County Reviewed Footing and Tables Previously Qualified For Compliance  
 \*\*

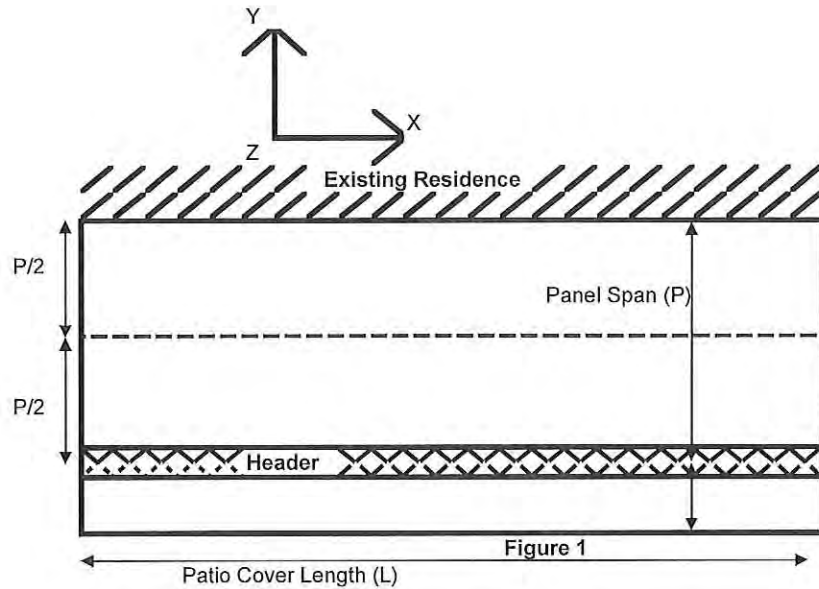
Directions for using Seismic Table L2a, L2b, L2c or L2d\*\*\*\*\*

1. Determine Tributary width
2. Determine width of structure
3. Determine height of structure
4. Determine number of posts structure has
5. Determine Ss for your area (contact your local building department)\*\*\*\*
6. Choose Table L2a-d based on the header
7. Determine the maximum size allowed on the chart
8. Multiply #1, #2 and #3 and divide by #4\*\*\*\*\*
9. If #8 is lower than #7 the structure is OK for seismic
10. 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.

Misc5b-2012



**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.

ICC ESR1398 (2012 IBC) 9/29/2013

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 Down Load (psf) W+	Design Up Load (psf) W-
130	B	25.7	15.8	16.8	15.2
140	C	41.8	25.6	26.6	25.0

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						26.2	34.6	51.4
110	B	11.3						
115	B	12.3						
130	B	15.8				31.7	38.0	
135	B	17.0						
140	B	18.3						
140	C	25.6				39.1	45.4	
150	C	29.4						
170	C	37.7						
175	C	40.0						
180	C	42.3						

TABLE 2

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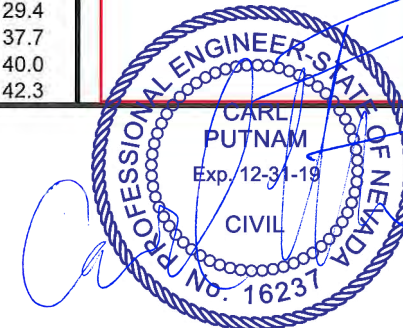


Amerimax 2012  
 Washoe County Reviewed  
 Footing and Tables Previously Qualified  
 For Compliance



OCT 02 2013

JAN 07 2014



Misc6-2012

FEB 07 2018

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

Structural Element	I (in <sup>4</sup> ) top in compression	I (in <sup>4</sup> ) bottom in compression	ASSUMES FULL LATERAL BRACING		Max Allowable Shear (lbf)	Material	E (ksi)	Ftu or Fu (ksi)	Fty or Fy (ksi)	Fcy (ksi)
			Max Allowable Moment (top in compression) (lbf*ft)	Max Allowable Moment (bottom in compression) (lbf*ft)						
<b>Rafters</b>										
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
<b>Solid Panels</b>										
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
<b>Aluminum Headers</b>										
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
<b>Aluminum Fascia</b>										
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
<b>Steel Headers</b>										
0.041"x3"x3" Steel Cloverlea	0.77	same	1028	1028	6694	ASTM A653 Grade 40	29000	55	40	
Double 0.041"x3"x3" Steel Cloverlea	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 Bearr	26.56	same	17098	17098	23008	ASTM A653 Grade 50	29000	65	50	
Double 16 Gauge Steel C Bearr	14.92	same	9610	9610	4788	ASTM A653 Grade 50	29000	65	50	

JAN 07 2014

Amerimax 2012  
Washoe County Reviewed  
Footing and Tables Previously Qualified  
For Compliance

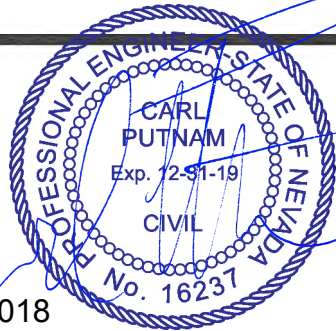
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Misc7-2012

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CONSTRAINED FOOTING SIZE d (IN)	REQUIRED SLAB AREA PER POST (SQUARE FEET)			CONCRETE SLAB THICKNESS (IN)
	3.5"	5.5"	7.25"	
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

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Amerimax Exterior Home Products  
28921 US Hwy 74  
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OCT 02 2013

Misc8-2012



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Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance

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Foam Core Sandwich Panels without Fan Beams (Detail N1 or O) Spans for the 2012 IBC

Patio Cover Applications Only

3" Panel						3.5" Panel					4" Panel					6" Panel											
Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure											
		B110	B115	C110	C115	C140			B110	B115	C110	C115	C140			B110	B115	C110	C115	C140	B110	B115	C110	C115	C140		
		Allowable Spans (ft)							Allowable Spans (ft)							Allowable Spans (ft)											
Live 10	0.024 0.032																										
Snow 10	0.024 0.032																										
20	0.024 0.032																										
25	0.024 0.032																										
30	0.024 0.032				10'		30	0.024 0.032				11.5'		30	0.024 0.032				12'		30	0.024 0.032				15'	

Table 4.21

Table 4.22

Table 4.23

Table 4.24

Commercial Cover or Carport Applications

3" Panel						3.5" Panel					4" Panel					6" Panel											
Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure											
		B110	B115	C110	C115	C140			B110	B115	C110	C115	C140			B110	B115	C110	C115	C140	B110	B115	C110	C115	C140		
		Allowable Spans (ft)							Allowable Spans (ft)							Allowable Spans (ft)											
Live 20	0.024 0.032																										
20	0.032 0.032																										
25	0.024 0.032																										
30	0.024 0.032				8.5'		30	0.024 0.032				9.5'		30	0.024 0.032				10'		30	0.024 0.032				12'	

Table 4.25

Table 4.26

Table 4.27

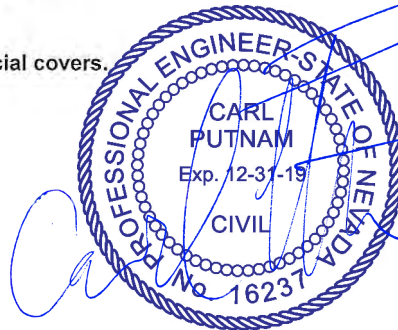
Table 4.28

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Notes

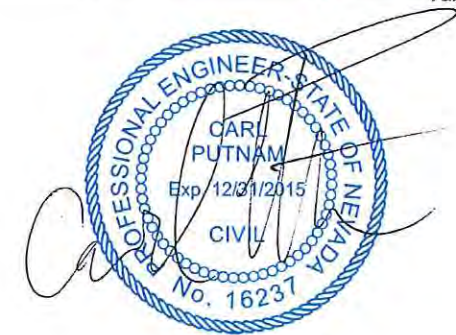
1. These tables are for use with the ICC ESR 1398 Detail N1 or O and the 2012 IBC
2. These panels DO NOT have an embedded fan beam.
3. Panels are as specified in ICC ESR 2229.
4. These panel spans are for unenclosed patio cover, carports or commercial covers.
5. Attach to header and wall hanger as per Table 4.29.
6. Wind speeds noted are "Ultimate Design Wind Speeds"



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Required Fastening of Foam Core Panels to Headers	
Trib Width (ft)	Wind Speed (mph) and Exposure
	B110   B115   C110   C115   C130   C140 O/C Spacing of #14 SM screws
3	12"
4	9"
5	7"
6	6"
7	5"
8	4"
9	4"
10	4"
11	3"
12	3"
13	3"
14	3"
15	2"

Table 4.29



JAN 07 2014

Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance





Foam Core Sandwich Panels with Fan Beams (Detail N1 or O) Spans for the 2012 IBC  
Patio Cover Applications Only

3" Panel					3.5" Panel					4" Panel					6" Panel											
Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure										
		B110	B115	C110	C115	C140			B110	B115	C110	C115	C140			B110	B115	C110	C115	C140	B110	B115	C110	C115	C140	
Live 10	0.024 0.032	Allowable Spans (ft)							Allowable Spans (ft)							Allowable Spans (ft)										
Snow 10	0.024 0.032																									
20	0.024 0.032																									
25	0.024 0.032																									
30	0.024 0.032				8' 11'		30	0.024 0.032				11.5' 12.5'		30	0.024 0.032				12' 12.5'		30	0.024 0.032				12' 14.5'

Table 4.30

Table 4.31

Table 4.32

Table 4.33

Commercial Cover or Carport Applications																										
3" Panel					3.5" Panel					4" Panel					6" Panel											
Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure					Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure										
		B110	B115	C110	C115	C140			B110	B115	C110	C115	C140			B110	B115	C110	C115	C140	B110	B115	C110	C115	C140	
Live 20	0.024 0.032	Allowable Spans (ft)							Allowable Spans (ft)							Allowable Spans (ft)										
20	0.032 0.032																									
25	0.024 0.032																									
30	0.024 0.032				8' 9'		30	0.024 0.032				9.5' 10'		30	0.024 0.032				10' 10'		30	0.024 0.032				10' 11.5'

Table 4.34

Table 4.35

Table 4.36

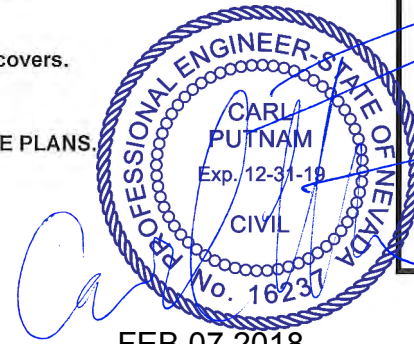
Table 4.37

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Notes

1. These tables are for use with the ICC ESR 1398 Detail N1 or O and the 2012 IBC
2. These panels DO have an embedded fan beam.
3. Panels are as specified in ICC ESR 2229
4. These panel spans are for unenclosed patio cover, carports or commercial covers.
5. Attach to header and wall hanger as per Table 4.29.
6. Wind speeds noted are "Ultimate Design Wind Speeds"
7. COMPLIANCE WITH ELECTRICAL CODE IS OUTSIDE THE SCOPE OF THESE PLANS
8. Maximum fan weight is 30 lbs.
9. Fan Installation is outside scope of these plans.



FEB 07 2018

Required Fastening of Foam Core Panels to Headers	
Trib Width (ft)	Wind Speed (mph) and Exposure
	B110   B115   C110   C115   C130   C140
3	O/C Spacing of #14 SM screws
4	12"
5	9"
6	7"
7	6"
8	5"
9	4"
10	4"
11	4"
12	3"
13	3"
14	3"
15	2"

Table 4.29



JAN 07 2014

Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance

**A Foam Core Sandwich Panels Spans (1 pcf Foam) for the 2012 IBC**

Patio Cover Applications Only															
3" Panel															
Ground Snow Load (psf)	Panel Skin Thickness (in)	Panel Description	Ultimate Design Wind Speed (mph) and Exposure												
			B110	B115	B120	B130	B140	B150	B160	C110	C115	C120	C130	C140	C150
Allowable Spans (ft)															
Live 10	0.024 0.024	no Fan Beam w/ Fan Beam													
Snow 10	0.024 0.024	no Fan Beam w/ Fan Beam													
20	0.024 0.024	no Fan Beam w/ Fan Beam													
25	0.024 0.024	no Fan Beam w/ Fan Beam													
30	0.024 0.024	no Fan Beam w/ Fan Beam								9'					
										7'					
40	0.024 0.024	no Fan Beam w/ Fan Beam								7.5'					
										6'					

Table A1

Commercial Cover or Carport Applications															
3" Panel															
Ground Snow Load (psf)	Panel Skin Thickness (in)	Panel Description	Ultimate Design Wind Speed (mph) and Exposure												
			B110	B115	B120	B130	B140	B150	B160	C110	C115	C120	C130	C140	C150
Allowable Spans (ft)															
Live 20	0.024 0.024	no Fan Beam w/ Fan Beam													
20	0.024 0.024	no Fan Beam w/ Fan Beam													
25	0.024 0.024	no Fan Beam w/ Fan Beam													
30	0.024 0.024	no Fan Beam w/ Fan Beam								7'					
										6.5'					
40	0.024 0.024	no Fan Beam w/ Fan Beam								0'					
										0'					

Table A2

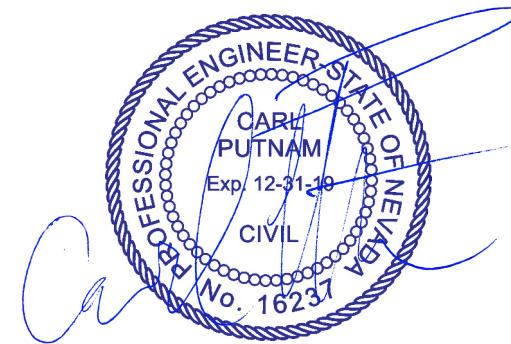
Required Fastening of Foam Core Panels to Headers and Wall Hangers														
Trib Width (ft)	Ultimate Design Wind Speed (mph) and Exposure													
	Exposure B					Exposure C								
	110	115	120	130	140	150	160	110	115	120	130	140	150	160
O/C Spacing of #14 SM screws														
3											12"			
4											10"			
5											8"			
6											6"			
7											5"			
8											5"			
9											4"			
10											4"			
11											3"			
12											3"			
13											3"			
14											3"			
15											3"			

TABLE A3

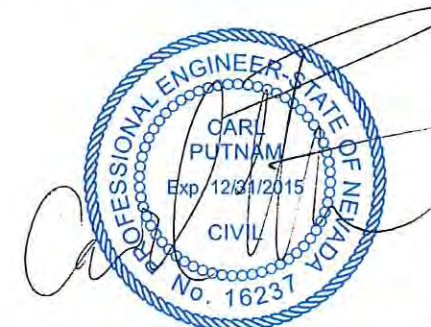
- Notes**
1. These tables are for use with the ICC ESR 1398 Detail N1 or O and the 2012 IBC
  2. These panels DO have an embedded fan beam.
  3. Panels are as specified in CA HCD FBH-22
  4. These panel spans are for unenclosed patio cover, carports or commercial covers.
  5. Attach to header and wall hanger as per Table A3.
  6. Wind speeds noted are "Ultimate Design Wind Speeds".
  7. COMPLIANCE WITH ELECTRICAL CODE IS OUTSIDE THE SCOPE OF THESE PLANS.
  8. Maximum fan weight is 30 lbs.
  9. Fan Installation is outside scope of these plans.

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JAN 07 2014



Amerimax 2012  
Washoe County Reviewed  
Footings and Tables Previously Qualified  
For Compliance