PERMIT Columbia County Building Permit DATE 06/06/2008 This Permit Must Be Prominently Posted on Premises During Construction 000027067 APPLICANT LARRY COLE **PHONE** 352 472-6850 **ADDRESS** 25370 NW 8TH PLACE NEWBERRY 32669 OWNER JEANETTE STEEDLEY PHONE 752-4345 ADDRESS 272 SW SMITH LANE LAKE CITY FL 32024 TIMBERLAKE ALUMINUM **PHONE** 352 472-6850 CONTRACTOR LOCATION OF PROPERTY 47S, TR ON SMITH AVE, 4TH LOT ON LEFT ESTIMATED COST OF CONSTRUCTION 9782.00 TYPE DEVELOPMENT SCREEN ENCLOSURE HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES FLOOR **FOUNDATION** WALLS ROOF PITCH LAND USE & ZONING A-3 MAX. HEIGHT Minimum Set Back Requirments: STREET-FRONT REAR SIDE FLOOD ZONE NO. EX.D.U. N/A DEVELOPMENT PERMIT NO. PARCEL ID 36-48-16-03336-000 SUBDIVISION LOT BLOCK PHASE UNIT SCC056710 Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor **EXISTING** X08-190 CS

Driveway Connection

COMMENTS: NOC ON FILE

Septic Tank Number

			Check # or Ca	sh 1676
	FOR BUILDING &	ZONING DEPAR	TMENT ONLY	(footer/Slab)
Temporary Power	Foundation	on	Monolithic	
date/	app. by	date/app. by		date/app. by
Under slab rough-in plumbing		Slab	Sheathing/N	lailing
_	date/app. by	date/app	 :	date/app. by
Framing	Rough-in pl	umbing above slab and be	elow wood floor	
date/app. by			-	date/app. by
Electrical rough-in	Heat & Air	Duct	Peri. beam (Lintel))
date/ap	pp. by	date/app. b		date/app. by
Permanent power	C.O. Final		Culvert	
date/app.	by	date/app. by		date/app. by
M/H tie downs, blocking, electricit	y and plumbing	100 Annual Contract C	Pool	
		date/app. by		date/app. by
Reconnection	Pump po		Utility Pole	——————————————————————————————————————
date/app		date/app. by	date/app. by	
M/H Poledate/app. by	Travel Trailer	date/app. by	Re-roof	date/app. by
чанеларр. бу		date/app. by		часларр. бу
BUILDING PERMIT FEE \$	50.00 CERTIFICA	TION FEE \$ 0.00	SURCHARGE	FEE \$ 0.00
MISC. FEES \$ 0.00	ZONING CERT. FEE S	50.00 FIRE FEE	\$ 0.00 WASTE	. FEE \$
FLOOD DEVELOPMENT FEE \$/	FLOOD ZONE FE	EE \$ CULVER	T FEE \$ TOT	AL FEE 100.00
INSPECTORS OFFICE	601/8/le	CLERKS	//	[]

LU & Zoning checked by

New Resident

Approved for Issuance

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

Inst:200812010206 Date:5/28/2008 Time:12:06 PM _____DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1151 P:566

	NOTICE OF COMMENCEMENT STATE OF FLORIDA COUNTY OF Columbia CITY OF City
	THE UNDERSIGNED hereby gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter713, Florida Statutes, the following information is provided in this Notice of Commencement.
	DESCRIPTION OF PROPERTY: LOT ABLOCK SECTION TOWNSHIP RANGE TAX PARCEL # 36 45 16 0 3 3 36 - 000 Hx SUBDIVISION: PLATBOOK: MAP PAGE# -
	GENERAL DESCRIPTION OF IMPROVEMENT: TO CONSTRUCT: Screen Enclosure
THE C	OWNER INFORMATION: OWNER(S)NAME: Steedley Jeanette ADDRESS: 272 Smile Lake PHONE 752 4345 CITY: Lake City FI STATE FI ZIP 32024 INTEREST IN THE PROPERTY: Owner
	FEE SIMPLE TITLEHOLDER NAME: FEE SIMPLE TITLEHOLDER ADDRESS:(IF OTHER THAN OWNER)
	CONTRACTOR NAME: TI MONTE HUMBER N/A Address: BONDING COMPANY: N/AADDRESS: N/A PHONE NUMBER N/A CITY: N/A STATE N/A ZIP CODE: N/A LENDER NAME: None ADDRESS: n/a PHONE N/A CITY: N/A STATE N/A Zip: N/A
	Prepared by: Peeler Pools, Inc. (Raymond Peeler) Return to: Peeler Pools, Inc. 9878 S. US Hwy 441 Lake City, Fl 32025
	Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1) (a) 7., Florida Statutes. NAME: None ADDRESS: N/A In addition to himself, Owner designates: Raymond Peeler of Peeler Pools, Inc. 9878 S US Hwy 441 Lake City, Fl 32025
	to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
	Expiration date is 1 year from date of recording unless a different date is specified. SIGNATURE OF OWNER SIGNATURE OF OWNER
	Notary Public My commission expires Signature: Alice B. Geele
	***WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXAMPLE SECTION OF NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 15 PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCEMENT.

Columbia County Building Permit Application

and delle to an and
For Office Use Only Application # 0805 - 49 Date Received 5/28/08 By 4 Permit # 27067 Zoning Official Date 5/28/08 Flood Zone N FEMA Map # Zoning A 3
Lang Use A 3 Elevation MFE River Plans Examiner OKOTH Date 526-08
Comments Orty. Dool built in 1990 - Lear engroschmeat.
NOC DEH Deed or PA Site Plan State Road Info Parent Parcel # Shand for hered in
□ Dev Permit # □ In Floodway □ Letter of Authorization from Contractor
□ Unincorporated area □ Incorporated area □ Town of Fort White □ Town of Fort White Compliance letter
Septic Permit No Fax 352472 6855
Name Authorized Person Signing Permit LARRY Cole / Carry Trubaulalle Phone 352472-6850
Address 25370 NW 8HJ PL NEWBERRY FL 32669
Owners Name Jeanette Steedley Phone 752-4345
911 Address 272 Smith Lane Lake City FL 32025
Contractors Name Timberlake Aluminum Phone 352 472 6850
Address 25370 NW 8TH PLACE NEWBERRY FL 32669
Fee Simple Owner Name & Address NA
Bonding Co. Name & AddressNA
Architect/Engineer/Name & Address Lawrence E. Bennett, P.E. Po Box214368 South Daylong FL 32121
Mortgage Lenders Name & Address NA
Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progress Energy
An of
Property ID Number 36-45-16-03336-000 HX Estimated Cost of Construction 9782 %
Subdivision Name_N/\(\frac{\partial}{\partial}\) Lot \(\begin{align*} \bar{N} \bar{\partial}\) Block \(\begin{align*} \bar{U}\) Unit \(\begin{align*} \begin{align*} \bar{P}\) Phase \(\begin{align*} \bar{U}\) Phase \(\begin{align*} \bar{U}\) Phase \(\begin{align*} \bar{U}\) Phase \(\begin{align*} \bar{U}\) P
Driving Directions
The transplantage of the second secon
Number of Existing Dwellings on Property 4
Construction of ALUMINUM FOOL ENCLOSURE Total Acreage 1.45ac Lot Size
Do you need a - Culvert Permit or Culvert Waiver or Mave an Existing Drive Total Building Height
Actual Distance of Structure from Property Lines - Front 85 side 200 side 200 Rear 20
Number of Stories Heated Floor Area Total Floor Area Floor Pitch
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.
of all laws regulating construction in this jurisdiction.

Columbia County Building Permit Application

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU DAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF

COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR IT WERE ROR

ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a night to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor rails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEL:

YOU ARE HEREBY NOTH-IED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or mad curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature

Dec dle of

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's License Number Scc 56710

Contractor's Signature (Permitee)

Columbia County
Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 6 day or May 2008.

Personalty known or Produced Identification Nice B accompany

Alice B accompany

MY COMMISSION # DD472231

EXPIRES: Sept. 15, 2009

State of Florida Novara Separation (Polyton Section Florida Novara Separation)

Columbia County Property Appraiser DB Last Updated: 4/15/2008

2008 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Parcel: 36-4S-16-03336-000 HX

Print

Owner & Property Info

Owner's Name	STEEDLEY HENRY N & JEANETTE W					
Site Address	SMITH	SMITH				
Mailing Address	272 SW SMITH LN LAKE CITY, FL 32024					
Use Desc. (code)	SINGLE FAM (000100)					
Neighborhood	36416.01 Tax District 3					
UD Codes	MKTA01 Market Area 01					
Total Land Area	1,450 ACRES					
Description	146.80 FT FO SW 191.53 F EX 0.85 AC A	COMM NE COR OF NW1/4 OF SW1/4, RUN W 146.80 FT FOR POB, RUN S 652.55 FT TO SR-47, SW 191.53 FT, N 754.35 FT, E 146.8 FT TO POB, EX 0.85 AC AS DESC ORB 609-736. ORB 376-319, 800-1518, 852-2533,				

<< Prev

Search Result: 6 of 7

Next >>





Property & Assessment Values

Mkt Land Value	cnt: (1)	\$28,275.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$84,972.00
XFOB Value	cnt: (8)	\$16,285.00
Total Appraised Value	Liver and the second se	\$129,532.00

Just Value		\$129,532.00
Class Value		\$0.00
Assessed Value		\$93,004.00
Exempt Value	(code: HX)	\$25,000.00
Total Taxable Value		\$68,004.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
2/5/1998	852/2533	WD	I	U	01	\$0.00
1/18/1995	800/1518	WD	I	U	03	\$0.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value		
1	SINGLE FAM (000100)	1979	Common BRK (19)	1787	3003	\$84,972.00		
Note: All S.F. calculations are based on exterior building dimensions.								

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0190	FPLC PF	0	\$1,600.00	1.000	0×0×0	(.00)
0021	BARN,FR AE	0	\$500.00	1.000	0 × 0 × 0	(.00)
0040	BARN,POLE	0	\$1,000.00	1.000	0 × 0 × 0	(.00)
0296	SHED METAL	0	\$500.00	1.000	0 × 0 × 0	(.00)
0280	POOL R/CON	1990	\$7,373.00	512.000	32 x 16 x 0	(.00.)

Land Breakdown

Design Check List for Pool Enclosures (Page 1 of 4)

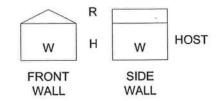
I. De	sigi	n Statement:		
These Lawre Suppl	e pla ence lem	ans have been designed in accordance with the Aluminum Structures Design Mar e E. Bennett and are in compliance with the 2004 Florida Building Code Edition wi ents, Chapter 20, ASM35 and The 2005 Aluminum Design Manual Part I-A & II-A 'C' or 'D'; Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and I.P.C. 0.00; MPH Wind Zone for 3 second wind gust; Basic Wind Pressure	th 2006 Exposud higher;	
nega	tive	s are PSF for roofs & PSF for walls. (see page 1ii for wind loads and des	, Des	ign
press	ure	s are PSF for foots & PSF for walls. (see page 111 for white loads and dess) A 300 PLF point load is also considered for screen roof members.	gn	
		Wind velocity zones and exposure category is determined by local code. Design p	receire	and
Notes		conversion multipliers are on page 1-ii.	n essui es	anu
		Structure Adequacy Statement: inspected and verify that the host structure is in good repair and attachments ma	de to the	4
		ure will be solid.	de to the	•
อแ	uct	ure will be solid.		
		Carl R helms Phone: 352-472-6850		
		Contractor Authorized Rep*/Name (please print)		
		Contractor Authorized Rep* Name (please print) Date: 57/24-08		
		Date: Other		
		Contractor / Authorized Rep* Signature		
		Steedley / 272 sw Smith Ln Lake City FL		
		Job Name & Address		
No	to.	If the total of beam span & upright height exceeds 50' or upright height exc	eeds	
INC	ne.	16', site specific engineering is required.	,ccus	
III. Bi	iild	ing Permit Application Package contains the following:	Yes	No
		oject name & address on plans	\checkmark	
		e plan or survey with enclosure location		
		ntractor's / Designer's name, address, phone number, & signature on plans		\Box
		e exposure form completed		H
E.		closure layout drawing @ 1/8" or 1/10" scale with the following:		=
		Plan view with host structure, enclosure length, projection from host structure, and all dimensions		
	2.	Front and side elevation views with all dimensions & heights	\checkmark	
		Note:		
		All mansard wall drawings shall include mansard panel at the top of the wall.		
	3.	Beam location (show in plan & elevation view) & size	\checkmark	
		(Table 1.1 & 1.6)		
3	"B"	of frame member allowable span conversions from 120 MPH wind zone, Exposure to MPH wind zone and / or'C" or'D" Exposure for load th of:		
		te: Conversion factors do not apply to members subject to point load (P).		
		k up span in appropriate 120 MPH span table and apply the following formula:		
	LOO		Canuante	, d
(@ 1:	Span ————————————————————————————————————		au
		(b or d) x (b or d) x (b or d) = 0.00		
		Wind Zone Multiplier (see page 1ii) Exposure Multiplier (see page 1ii)		
	4.	Upright location (show in plan & elevation view) & size (Table 1.3 & 1.6)	\checkmark	
	5.	Chair rail & girt size, length, & spacing	V	
	6.	Eave rail size, length, spacing and stitching of	V	
		(Table 1.2)		

^{*} Must have attended Engineer's Continuing Education Class within the past two years.

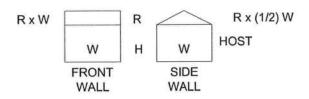
Design Check List for Pool Enclosures (Page 2 of 4)

Wall frame member allowable span conversions from 120 MPH wind zone, "B" Exposure to ____ MPH wind zone and / or C or D Exposure for load width of 1.00: Look up span in appropriate 120 MPH span table and apply the following formula: Required Converted Span / Height Span / Height @ 120 MPH or ___MPH 0.00 (b or d) x 1.00 (b or d) x 1.00 (b or d) = Wind Zone **Exposure Multiplier** Multiplier ** (see page 1ii) Yes No 7. Enclosure roof diagonal bracing in plan view 8. Knee braces length, location, & size (Table 1.7) 9. Wall cables or K-bracing sizes shown in wall views IV. Highlight details from the Aluminum Structures Design Manual: Yes (Tables 1.1 & 1.2 or 1.9.1 & 1.9.2) B. Upright & girt tables with size, thickness, spacing, & spans / lengths (Tables 1.3 & 1.4) C. Table 1.6 with beam & upright combination D. Connection details to be use such as: 1. Beam to upright 2. Beam to wall 3. Beam to beam 4. Chair rail, purlins, & knee braces 5. Extruded gutter connections 9. Cable or K- brace details Section 1 Wall area calculations for cables: W = wall width, H = wall height, R = rise W1 = width @ top of mansard, W2 = width @ top of wall E. Select footing from examples in manual. Example 1: Flat Roof _ft. = $\frac{0.00}{a}$ ft.² @ 100% = $\frac{0.00}{a}$ ft.² ft. x ft. = 0.00 ft.² @ 50% = 0.00 ft.² TOTAL = Total area / (233 ft.² / cable for 3/32") = ___0 cable pairs Total area / $(445 \text{ ft.}^2 / \text{ cable for } 1/8") = 0$ cable pairs Side wall cable calculation: _0.00_ft.2@ 100% = ______ Side wall area / $(233 \text{ ft.}^2 / \text{cable for } 3/32") = 0 cable(s)$ Side wall area / $(445 \text{ ft.}^2 / \text{ cable for } 1/8") = 0 \text{ cable(s)}$

Design Check List for Pool Enclosures (Page 3 of 4)



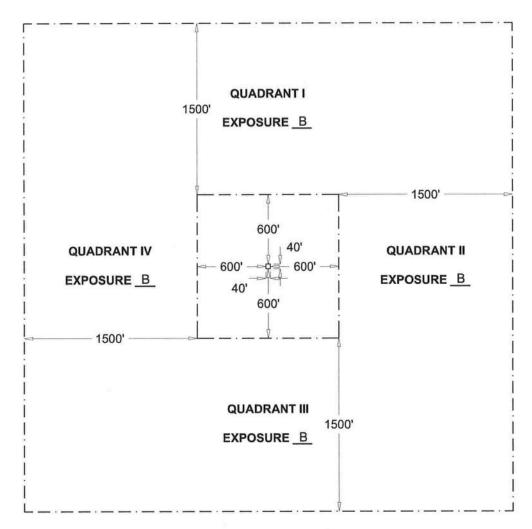
Example 2: Gable Roof



Example 3: Transverse Gable Roof

Front wall @ eave:
$$\frac{59.75}{W}$$
 ft. x $\frac{9.00}{H}$ ft. = $\frac{537.75}{0}$ ft. 2 @ 100% = $\frac{537.75}{W}$ ft. 2 $\frac{239.00}{R}$ ft. 2 $\frac{2$

SITE EXPOSURE EVALUATION FORM



NOTE: ZONES ARE MEASURED FROM STRUCTURE OUTWARD

SITE SCALE: 1" = 800'

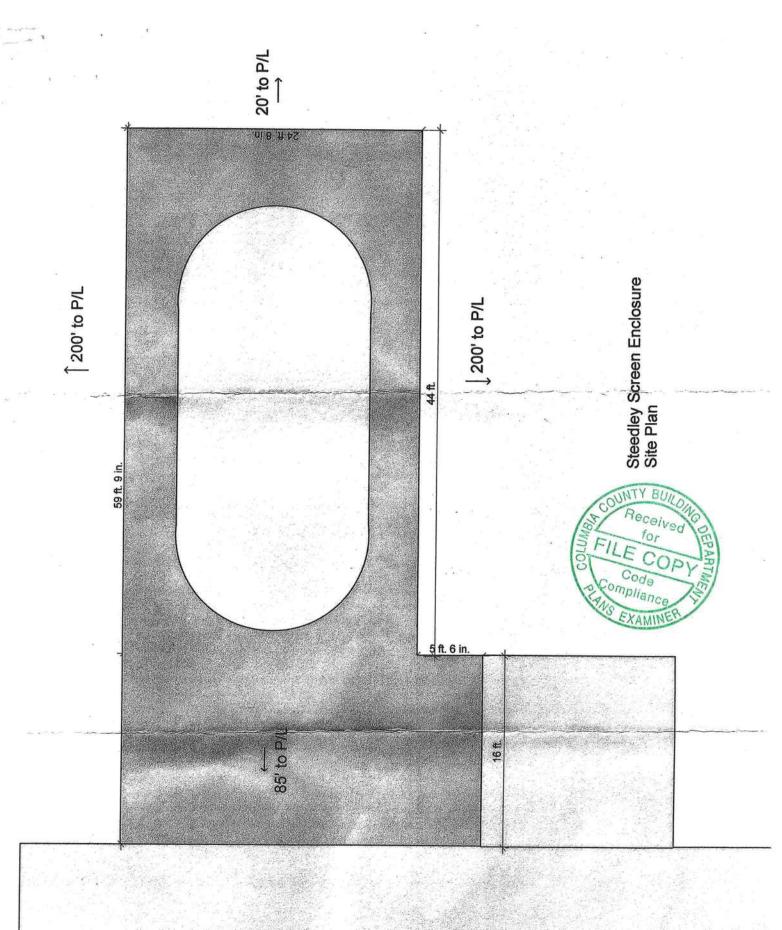
USING THE FOLLOWING CRITERIA, EVALUATE EACH QUADRANT AND MARK IT AS 'B', 'C', OR 'D' EXPOSURE. 'C' OR 'D' EXPOSURE IN ANY QUADRANT MAKE THE SITE THAT EXPOSURE.

- EXPOSURE C: 1. OPEN TERRAIN FOR MORE THAN 1,500 FEET IN ANY QUADRANT.
 - 2. ANY 'C' EXPOSURE FOR GREATER THAN 600 FEET IN ANY QUADRANT.
 - 3. NO SHORT TERM CHANGES IN 'B', 2 YEARS BEFORE SITE EVALUATION AND BUILD OUT WITHIN 3 YEARS, SITE WILL BE 'B'.
 - FLAT, OPEN COUNTRY, GRASSLANDS, PONDS AND OCEAN OR SHORELINES IN ANY QUADRANT FOR GREATER THAN 1,500 FEET.

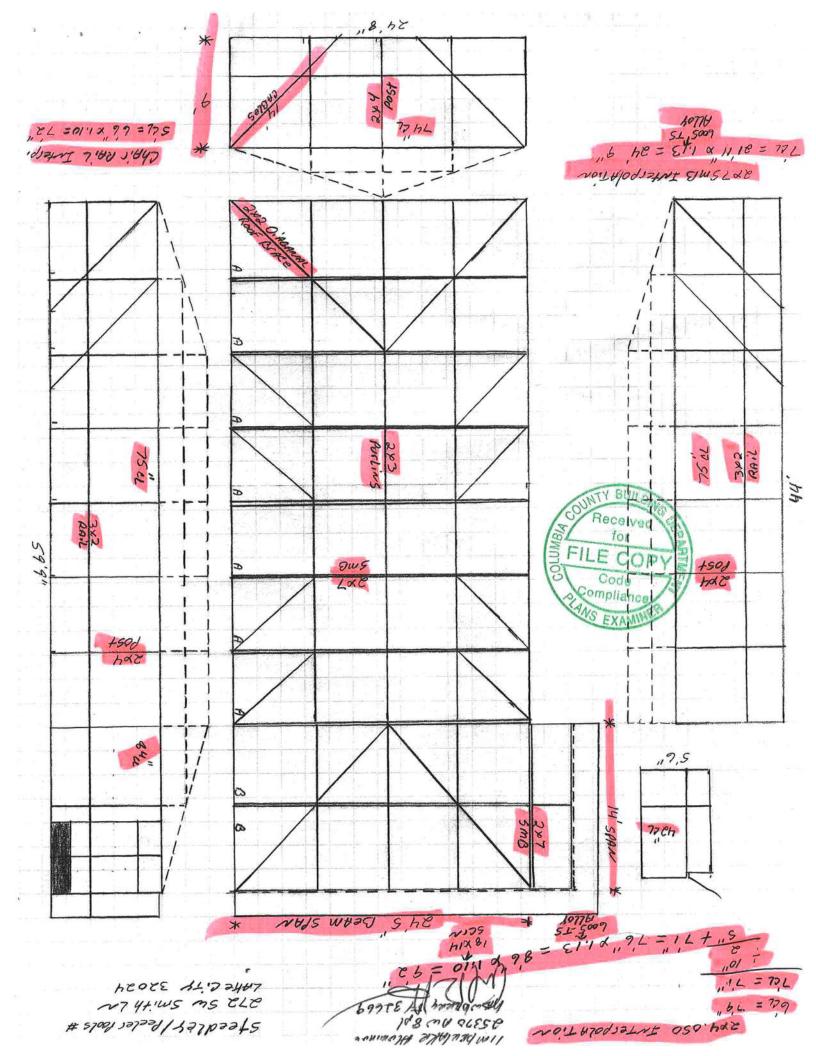
EXPOSURE D:

FLAT, UNOBSTRUCTED AREAS THAT ARE 1,500 FT INLAND FROM THE SHORE LINE AND ARE EXPOSED TO WIND FLOWING OVER WATER FOR A DISTANCE OF AT LEAST 1 MILE.

SITE IS EXPOSURE: B	EVALUATED BY: Capl R Helms	DATE: <u>5-14-08</u>
SIGNATURE:	LICENSE #: scc056710	



SCALE: 1/8" = 1'



Section 1 Design Statement:

The structures designed for Section 1 are framing systems with screen roofs & walls and loads have been determined by wind tunnel test that include any negative internal pressure coefficient. Since these structures are open, the negative internal pressure coefficient is considered to be 0.00. The design loads used are from Chapter 20 of the 2004 Florida Building Code w/ 2006 Supplements. The loads assume a mean roof height of less than 30'; roof slope of 0° to 20°; I = 0.87 for 100 MPH and 0.77 for 110 or higher. All loads are based on 20 / 20 screen or larger. Multiply wall heights by 1.10 for members controlled by bending(b) and 1.07 for members controlled by deflection(d) when using 18 / 14 screen. All pressures shown in the below table are in PSF (#/SF). All framing components are considered to be 6063-T6 alloy. For components of 6005-T5 and 6061-T6 multiply spans by 1.13.

General Notes and Specifications for Section 1 Tables:

SECTION 1 Uniform Loads for Structures with Screen Roof & Walls

	Basic		Exposure 'B'			Exposure 'C'		
Wind Velocity MPH	Wind Pressure	Roofs '	Windward Walls	Leeward Walls	Roofs	Windward Walls	Leeward Walls	
100 .	13	3	12	10	5	17	13	
110	14	4	13	9	5.	18	14	
120	17	4 .	15	13	6	21	17	
123	18	4.3	15.9	13.3	6.3	22.2	17.6	
130	20	5	18	14	7	25	19	
1401 & 2	23	6	21	15	8	29	23	
150	26	7	24	18	9	33	27	

Loads per table 2002.4

Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

Conversion Table 1A

Wind Zone Conversion Factors for Screen Roof or Wall Frame Members

From 120 MPH Wind Zone to Others; Exposure 'B'

	Ro	ofs	W	alls
Wind Zone MPH	Applied Load #/ SF	Conversion Factor	Applied Load #/ SF	Conversion Factor
100	3	1.15	12	1.12
(110)	4	1.00	13	1.07°D
120	4	1.00	15	1.00
123	4.3	0.96	15.9	0.97
130	5	0.89	18	0.91
1401 & 2	6	0.82	21	0.85
150	7	0.76	24	0.79





Multipliers are for wall loads only.

Multipliers only apply to members when spans / heights are controlled by wind pressure, not by

Conversion Table 1B

Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

	Expos	sure "B" to '	'C"	Expos	sure "B" to	'D"
Mean Roof Height*	Load Conversion	Span M	Multiplier	Load Conversion	Span	Multiplier
11100-0- -111	Factor	Bending	Deflection	Factor	Bending	Deflection
0 - 15'	1.21	0.91	0.94	1.47	0.83	0.88
15' - 20'	1.29	0.88	0.92	1.54	0.81	0.87
20' - 25'	1.34	0.86	0.91	1.60	0.79	0.86
25' - 30'	1.40	0.85	0.89	1.66	0.78	0.85
30' - 40'	1.37	0.85	0.90	1.61	0.79	0.85

[·] Use larger mean roof height of host structure or enclosure

Values are from ASCE 7-02

Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

Conversion Example (Convert span for Exposure "B" to "C"):

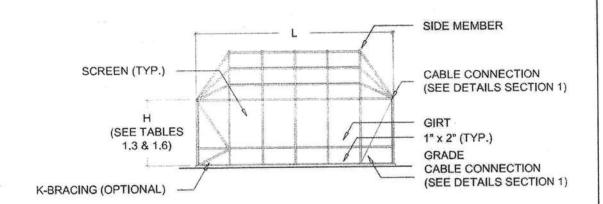
If max span found from span tables for Exposure "B" = 31'-11" = 31.92'

and the mean roof height of the structure is 0-15' then multiply span by 0.91

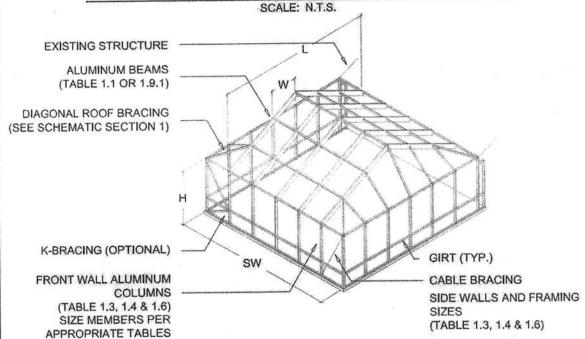
the span for Exposure "C" is 31.92' * 0.91 = 29.05' = 29'-1"

SECTION 1

SCREENED ENCLOSURES



TYPICAL MODIFIED HIP ROOF - FRONT WALL ELEVATION



TYPICAL MODIFIED HIP ROOF - ISOMETRIC

SCALE: N.T.S.

Lawrence E. Bennett, P.E. FL # 16644

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214368, South Daytona. Fl 32121 Telephone #: (386) 767-4774 Fax #: (386) 767-6556 Email: lebpe@bellsouth.net

PAGE

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1-6

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SECTION 1

MINIMUM POST SIZES REQUIRED FOR EACH BEAM SIZE (SEE TABLE 1.6)

2" x 6" SELF MATING BEAM 1" x 2" OPEN BACK SECTIONS ATTACHED TO 2" x 2" W/ #10 x 1-1/2" S.M.S. @ 24" O.C. OR CONTINUOUS SNAP 2" x 6" BEAM SECTIONS OR 2" x 3" (4) SPLINE GROOVE SECTION 0 0 0 0 0 0 0 0 1" x 2" OPEN BACK FASTENED ALTERNATE FLAT ROOF TO POST W/ (2) #10 x 1-1/2" S.M.S. SELECT FASTENER SIZE, NUMBER AND PATTERN ATTACH 2" x 2" PURLINS TO (SEE TABLE 1.6 & 9.5A OR 9.5B) SELF MATING BEAMS W/ (2) #10 x 1-1/2" S.M.S. INTO 2" x 3" HOLLOW OR SNAP SCREW BOSSES SECTION

SLOPING BEAM TO UPRIGHT CONNECTION DETAIL (PARTIAL LAP)

SCALE: 3" = 1'-0"

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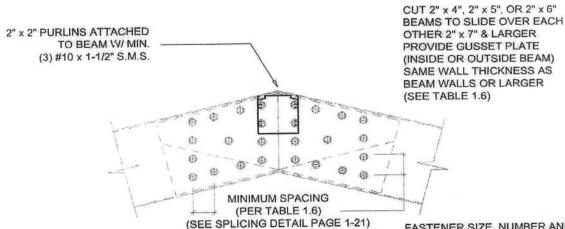
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PAGE

SECTION 1

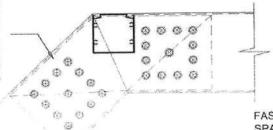
SCREENED ENCLOSURES



FASTENER SIZE, NUMBER AND SPACING PER PAGE 1-20(SEE TABLE 1.6)

ALTERNATE SIDE PLATE CONNECTION DETAIL GUSSET PLATE MOUNTED INTERNALLY SCALE: 3" = 1'-0"

CUT 2" x 4", 2" x 5", OR 2" x 6" BEAMS TO SLIDE OVER EACH OTHER 2" x 7" & LARGER PROVIDE GUSSET PLATE (INSIDE BEAM) SAME WALL THICKNESS AS BEAM WALLS OR LARGER (SEE TABLE 1.6)



FASTENER SIZE, NUMBER AND SPACING PER PAGE 1-20(SEE TABLE 1.6)

ALL GUSSET PLATES SHALL BE A MINIMUM OF 5052 H-32 ALLOY OR HAVE AN ULTIMATE YIELD STRENGTH OF 30 KSI

ALTERNATE SIDE PLATE CONNECTION DETAIL - MANSARD ROOF GUSSET PLATE MOUNTED INTERNALLY

SCALE: 3" = 1'-0"

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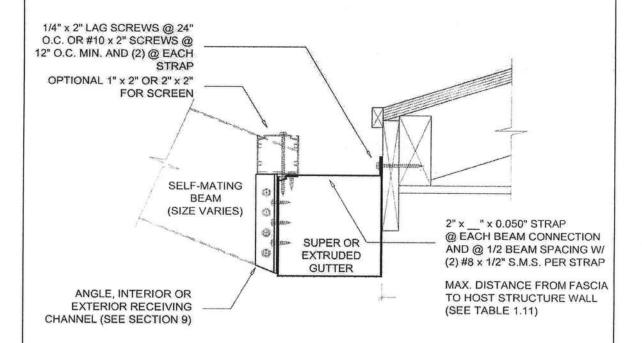
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1-20

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SECTION 1



ALTERNATE SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 3" = 1'-0"

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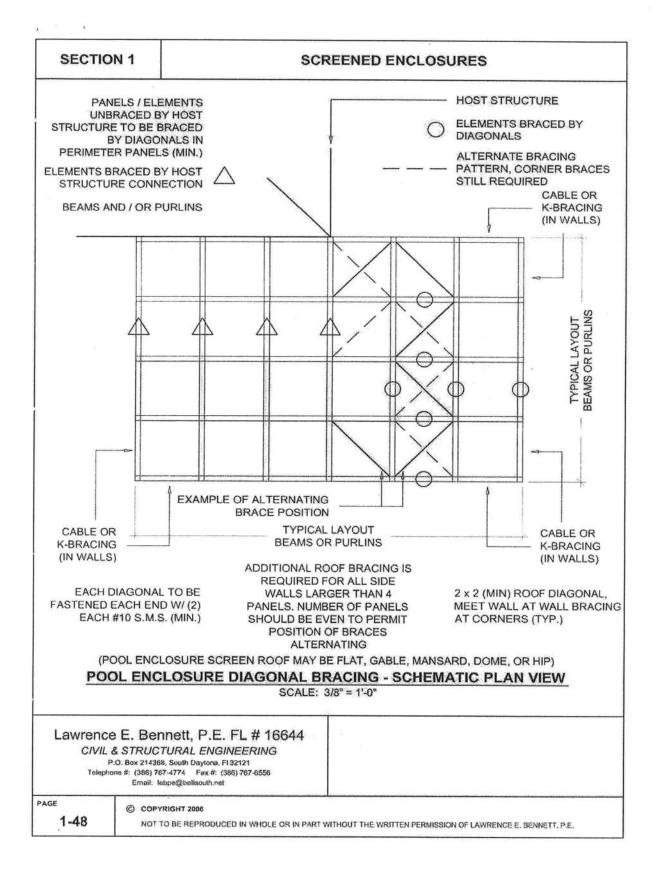
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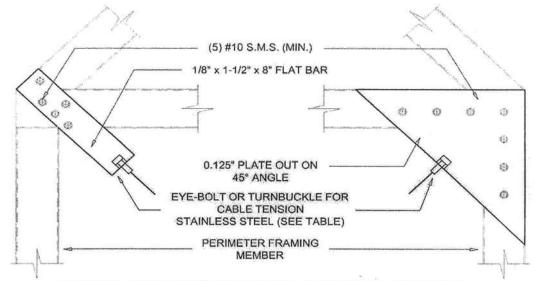
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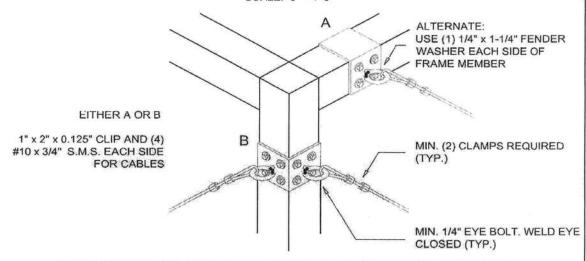


SECTION 1



TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1

SCALE: 3" = 1'-0"



ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A

SCALE: 3" = 1'-0"

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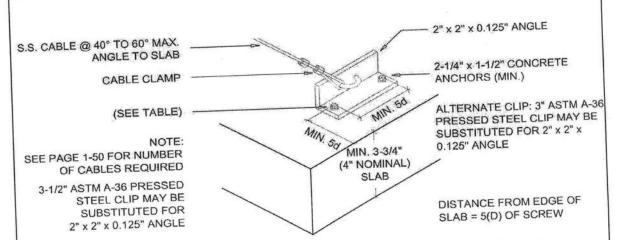
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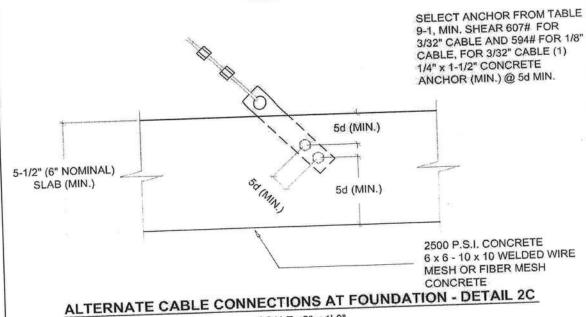
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SECTION 1



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

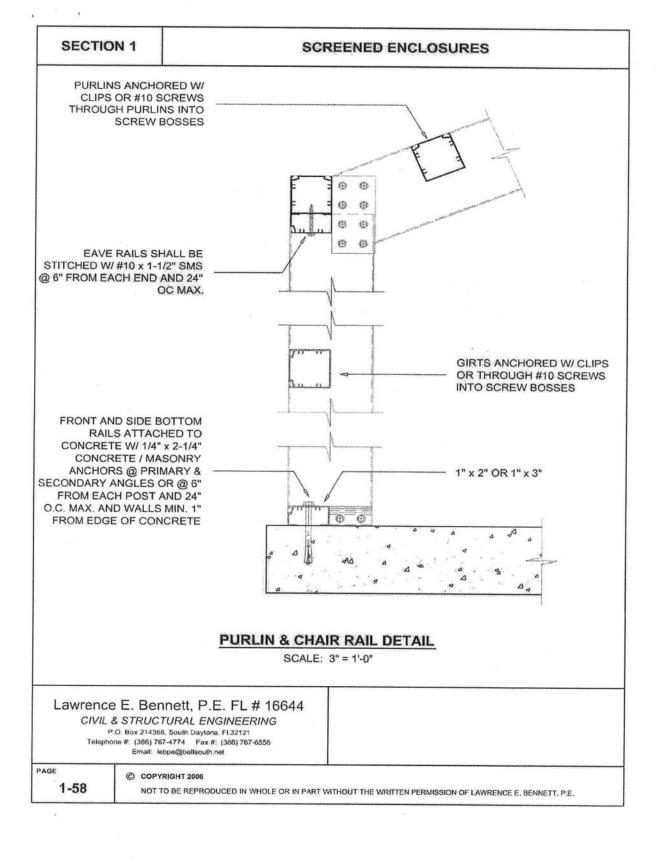
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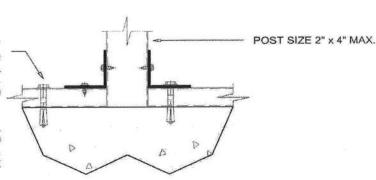
PAGE



SECTION 1

1" x 2" EXTRUSION ANCHOR TO CONCRETE W/ CONCRETE ANCHORS OR THRU PRIMARY ANGLE 6" MAX. EACH SIDE OF EACH POST AND @ 24" O.C. MAX. SELECT CONCRETE ANCHORS FROM SECTION 9

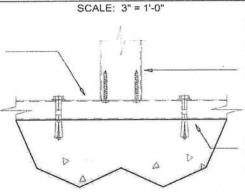
> MIN. 3-1/2" SLAB 2500 P.S.I. CONCRETE 6 × 6 - 10 × 10 WELDED WIRE MESH OR FIBER MESH CONCRETE



SIDE WALL POST TO PLATE TO CONCRETE DETAIL

1" x 2" EXTRUSION ANCHOR TO CONC. W/ CONC. ANCH. 6" MAX. EA. SIDE OF EA. POST AND @ 24" O.C. MAX. SELECT CONCRETE ANCHORS FROM SECTION 9

MIN. 3-1/2" SLAB 2500 P.S.I. CONC. 6 x 6 - 10 x 10 W.W.M. OR FIBER MESH CONC.



2" x 2", 2" x 3" OR 2" x 4" HOLLOW SECTION (SEE TABLES)

MIN. (3) #10 x 1-1/2" S.M.S. INTO SCREW BOSSES

MASONRY ANCHOR @ 6" EA. SIDE OF POST AND @ 24" O.C. MAX. SELECT CONCRETE ANCHORS FROM SECTION 9

SIDE WALL HOLLOW POST TO BASE DETAIL

SCALE: 3" = 1'-0"

POOL ENCLOSURE UPRIGHT TO DECK ANCHOR REQUIREMENTS

General Notes and Specifications:

1. The uplift load on a pool enclosure upright is calculated as 1/2 the beam span x the beam spacing x the screen load of 7#/ Sq. Ft.

EXAMPLE:

FOR A 2" x 6" BEAM WITH A SPAN OF 23' AND A BEAM & UPRIGHT SPACING OF 7' USE: 1/2 x 17'-11" x 7' x 10# / Sq. Ft. = 627.2# UPLIFT

- 2. Table 1.6 of this manual uses the worst case loads for all cases.
- 3. In all cases there must be a primary anchor within 6" of each side of the upright.
- 4. For attachment to wood deck (min. 2" nominal thickness) use wood anchors with details shown above (min. 1-3/8" embedment).

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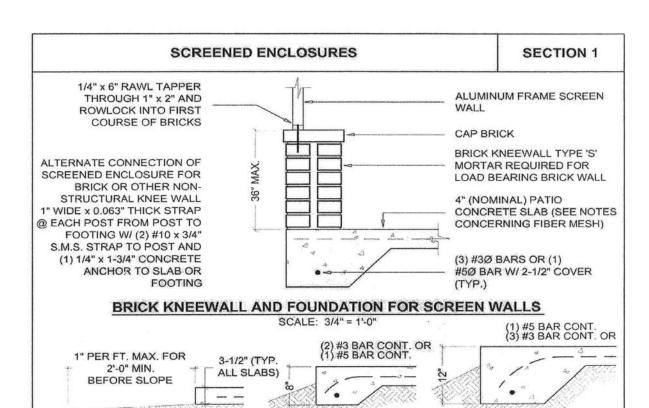
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PAGE



Notes for all foundation types:

FLAT SLOPE / NO FOOTING

0-2" / 12"

 The foundations shown are based on a minimum soil bearing pressure of 1,500 PSF. Bearing capacity of soil shall be verified prior to placing slab by field soil test (soil penetrometer) or a soil testing lab.

8"

TYPE II

MODERATE SLOPE FOOTING

2" / 12" - 1'-10"

- 2. The slab / foundation shall be cleared of debris, roots and compacted prior to placement of concrete.
- 3. No footing is required except when addressing erosion until the slab width in the direction of the primary beams exceeds the span per table on page 1-69, then a type II slab is required under the load bearing wall only unless the side wall exceeds 16' in height or the enclosure is in a "C" exposure catagory in which case a type II footing is required.
- 4. Monolithic slabs and footings shall be minimum 2,500 psi concrete with 6 x 6 10 x 10 welded wire mesh or crack control fiber mesh; Fibermesh® Mesh, InForce™ e3™ (Formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh. All slabs / footings shall be allowed to cure for 7 days before installing anchors.
- If local codes require a minimum footing use Type II footing or footing section required by local code. Local codes govern.

SLAB-FOOTING DETAILS

SCALE: 3/4" = 1'-0"

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F.

1'-0'

TYPE III

STEEP SLOPE FOOTING

> 1'-10"

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SECTION 1

SCREENED ENCLOSURES

Table 1.1 120

Allowable Spans for Primary Screen Roof Frame Members

Aluminum Alloy 6063 T-6

For Wind Zones up to 120 M.P.H., Exposure "B" and Latitudes Below 30°-30'-00" North (Jacksonville, FL)

Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered

			Land Street	1	Tributary	Loac	Width '	W' =	Beam Sp	acin	g			
Hollow Sections	3'-0	*	4'-0	11	5'-0	ч	6'-0	11	7'-0'		8'-0	**	9'-0	
	Allo	wabl	e Span '	L' /	Point Lo	ad (P	or Unif	orm	Load (U),	ben	ding (b)	defle	ction (d)
2" x 2" x 0.044"	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	51-2"	Pb	5'-2"	Pb
2" x 2" x 0.090"	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb.	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb
2" x 3" x 0.045"	7'-7"	Pb.	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5"	Pb	20'-4"	Ud	19'-4"	Ud	18'-6"	Ud	17'-9"	Ud
	9.11.0	1	was street	400	Cributary	Loac	Width '	W' =	Beam Sp	acin	a	SHE CO.	F. 187 (1 - 7%)	11/2

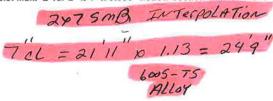
The state of the s	E-9-11-0-	1000	was mould	1000	ributary	Load	Width '	W' =	Beam Sp	acin	g	Sale Co	F# 185 17 5 27 11	11/25
Self Mating Sections	3'-0'		4'-0'	•	5'-0'		6'-0	1	7'-0'		8'-0'		9'-0'	•
a same in the same of the same of	Allo	wabl	e Span 'I	11	Point Lo	ad (P	or Unif	orm	Load (U),	ben	ding (b),	defle	ection (d)	
2" x 4" x 0.044 x 0.100"	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd
2" x 5" x 0.050" x 0.100"	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	15'-9"	Ud	15'-1"	Ud
2" x 6" x 0.050" x 0.120"	20'-4"	Pd	20'-4"	Pd	20'-4"	Pd	20'-3"	Ud	19'-3"	Ud	18'-5"	Ud	17'-8"	Ud
2" x 7" x 0.055" x 0.120"	24'-9"	Pd	24'-9"	Pd	24'-6"	Ud	23'-1"	Ud	21'-11"	Ud	20'-11"	Ud	20'-2"	Ud
2" x 8" x 0.072" x 0.224"	34'-2"	Pd	32'-9"	Ud	30'-5"	Ud	28'-7"	Ud	27'-2"	Ud	25'-11"	Ud	24'-11"	Ud
2" x 9" x 0.072" x 0.224"	39'-3"	Pd	35'-11"	Ud	33'-4"	Ud	31'-5"	Ud	29'-10"	Ud	28'-6"	Ud	27'-5"	Ud
2" x 9" x 0.082" x 0.310"	42'-5"	Ud	38'-7"	Ud	35'-10"	Ud	33'-8"	Ud	31'-11"	Ud	30'-7"	Ud.	29'-5"	Ud
2" x 10" x 0.092" x 0.369"	49'-3"	Ud	44'-9"	Ud	41'-7"	Ud	39'-1"	Ud	37'-2"	Ud	35'-6"	Ud	34'-2"	Ud

					Tributary	Load	Width "	M, =	Beam Sp	pacing	g			22-24
Snap Sections	3'-0		4'-0	11	5'-0	,	6'-0		7'-0	"	8'-0		9'-0	**
	Allo	wabl	e Span '	L' /	Point Lo	ad (P	or Unif	orm l	oad (U)	, ben	ding (b),	defle	ction (d)
2" x 2" x 0.044"	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd
2" x 3" x 0.045"	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd
2" x 4" x 0.045"	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd
2" x 6" x 0.062"	22'-2"	Pd	22'-2"	Pd	22'-2"	Pd	21'-5"	Ud	20'-5"	Ud	19'-6"	Ud	18'-9"	Ud
2" x 7" x 0.062"	26'-8"	Pd	26'-8"	Pd	25'-9"	Ud	24'-3"	Ud	23'-0"	Ud	22'-0"	Ud	21'-2"	Ud

Note:

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- The structures designed using this section shall be limited to a maximum combined span and upright height of 50' and a maximum upright height of 16'. Structures larger than these limits shall have site specific engineering.
- 3. Span is measured from center of beam and upright connection to fascia or wall connection.
- Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
- 5. Tables are based on a maximum wall height of 16' including a 4' max, mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
- 6. Spans may be interpolated.
- 7. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

Example: Max. 'L' for 2" x 4" x 0.050" hollow section with 'W' = 5'-0" = 9'-1"



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Table 1.2 120 Allowable Spans for Secondary Screen Roof Frame Members
Aluminum Alloy 6063 T-6

For Wind Zones up to 120 M.P.H., Exposure "B", and Latitudes Below 30°-30'-00" North (Jacksonville, FL) Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered

A. Sections Fastened To Beams With Clips

	Language Contract			1	ributary	Load	Width '	W' =	Purlin S	oacin	g			
Hollow Sections	3'-6	**	4'-0	"	4'-6	"	5'-0	11	5'-6	"	6'-0	"	6'-8	**
	Allo	wabl	e Span '	L'I	Point Lo	ad (P	or Unif	orm l	Load (U)	ben	ding (b),	defle	ction (d)
2" x 2" x 0.044"	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	TPb
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb
2" x 2" x 0.090"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd
3" x 2" x 0.045"	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb
3" x 2" x 0.070"	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd
2" x 3" x 0.045"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb
2" x 5" x 0.062"	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd

	English Committee			T	ributary	Load	Width '	W' =	Purlin S	pacin	g		100	
Snap Sections	3'-6	19	4'-0	"	4'-6		5'-0	10	5'-6	ji .	6'-0	**	6'-8	11
	Allo	wabl	e Span '	L' / I	Point Lo	ad (P	or Unif	orm l	oad (U)	, ben	ding (b),	defle	ection (d)
"x 2" x 0.044	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb
2" x 3" x 0.045"	7'-3"	Pd	7'+3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd
2" x 4" x 0 045"	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9:-2"	Pd	9'-2"	Pd	9'-2"	Pd

B. Sections Fastened Through Beam Webs Into Screw Bosses

and the second control of the second				7	ributary	Load	Width "	W'=	Purlin Sp	acin	g			
Hollow Sections	3'-6	"	4'-0	**	4'-6	"	5'-0	11	5'-6'		6'-0	"	6'-8'	
	Allo	wable	Span '	L' I	Point Lo	ad (P	or Unif	orm	Load (U),	ben	ding (b),	defle	ction (d)	
2" x 3" x 0.050"	11'-5"	Pb	11'-5"	Pb	11'-5"	Pb	11'-4"	Ud	10'-11"	Ud	10'-8"	Ud	10'-3"	Ud
2" x 4" x 0.050"	13'-8"	Pb	13'-8"	Pb.	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb
2" x 5" x 0.062"									20'-11"					Ud

				-	ributary	Load	Width '	W' =	Purlin Sp	acing	3			
Snap Sections	3'-6	"	4'-0'	1	4'-6	"	5'-0	**	5'-6'	, 1	6'-0	"	6'-8'	
Onap dections									Load (U))
2" x 2" x 0.044"	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb

Notes:

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- 2. Span is measured from center of beam and upright connection to fascia or wall connection.
- 3. Tables are based on a maximum wall height of $\overline{\bf 16}$ including a 4' max. mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
- Spans may be interpolated.
- 5. 2" x 4" & 2" x 5" Hollow Girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0.044" angle.
- To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.
 CHECK TABLE 1.6 FOR MINIMUM UPRIGHT SIZE FOR BEAMS.

Example: Max. 'L' for 2" x 4" x 0.050" hollow section fastened to beam with clips with 'W' = 5'-0" = 9'-1"

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Table 1.3 110 Allowable Post / Upright Heights for Primary Screen Wall Frame Members Aluminum Alloy 6063 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 #/sq. ft.

			7	rib	itary Lo	ad 1	Width 'W	•=	Upright :	Spa	cing		5.47/434	
Hollow Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	-		Allov	vab	e Heigh	t "H	" / bend	ling	(b), def	lect	ion (d)	-		
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	5'-1"	b	4'-8"	b	4'-3"	b	3'-11"	b
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	b	6'-7"	b	6'-1"	b	5'-9"	b
2" x 3" x 0.045"	8'-4"	d	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	ь	5'-6"	b
2" x 4" x 0.050"	11'-2"	b	9'-7"	b	8'-6"	b	71.9"	b	7'-1"	b	6'-7"	b	6'-1"	b
2" x 5" x 0.062"	17'-3"	b	14'-10"	b.	13'-2"	b	11'-11"	b	11'-0"	b	10'-3"	b	9'-7"	b

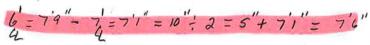
			1	Frib	utary Lo	ad \	Width 'W	<i>l'</i> =	Upright :	Spa	cing			
Self Mating Sections	3'-0"		4'-0"		5'-0"	1	6'-0"		7'-0"		8'-0"		9'-0"	
			Allo	wab	le Heigh	t "H	" / bend	ling	(b), def	lect	ion (d)			
2" x 4" x 0.044 x 0.100"	11'-11"	d	10'-10"	d	10'-0"	d	9'-5"	Ь	8'-8"	b	8'-0"	b	7'-6"	b
2" x 5" x 0.050" x 0.100"	14'-9"	d	13'-5"	d	12'-5"	d	11'-7"	b	10'-8"	Ь	9'-11"	b	9'-4"	b
2" x 6" x 0.050" x 0.120"	17'-3"	d	15'-8"	d	14'-4"	b	13'-1"	b	12'-0"	b	11'-3"	b	10'-6"	b
2" x 7" x 0.055" x 0.120"	19'-8"	d	17'-6"	b	15'-7"	b	14'-2"	b	13'-1"	b	12'-2"	b	11'-5"	b
2" x 8" x 0.072" x 0.224"	24'-4"	d	22'-1"	d	20'-6"	ď	19'-4"	d	18'-4"	d	17'-6"	d	16'-10"	d
2" x 9" x 0.072" x 0.224"	26'-8"	d	24'-3"	d	22'-6"	d.	21'-2"	d	20'-1"	d	19'-3"	d	18'-2"	Ь
2" x 9" x 0.082" x 0.310"	28'-8"	d	26'-0"	d	24'-2"	d	22'-9"	d	21'-7"	d	20'-8"	d	19'-10"	d
2" x 10" x 0.092" x 0.369"	33'-3"	d	30'-3"	d	28'-1"	d	26'-5"	d	25'-1"	d	23'-11"	d	23'-1"	d

				Trib	utary Lo	ad	Width 'W	1=1	Jpright 8	Spa	cing			
Snap Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
			Allo	vab	le Heigh	t "H	" / bend	ding	(b), def	lect	ion (d)		Andrew Commence	200
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	ď	5'-3"	d	4'-10"	b	4'-5"	b	4'-1"	b
2" x 3" x 0.045"	8'-10"	d	8'-1"	d	7'-6"	ď	6'-11"	b	6'-3"	b	5'-9"	b	5'-3"	b
2" x 4" x 0.045"	11'-2"	d	10'-2"	d	9'-2"	b	8'-2"	b	7'-5"	b	6'-9"	b	6'-2"	b
2" x 6" x 0.062"	18'-3"	d	16'-7"	d	15'-5"	ď	14'-6"	d	13'-9"	d	13'-2"	d	12'-8"	d
2" x 7" x 0.062"	20'-7"	d	18'-9"	d	17'-5"	ď	16'-4"	d	15'-7"	d	14'-10"	d	14'-2"	b

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- 2. Using screen panel width 'W' select upright length 'H':
- 3. Above heights do not include length of knee brace. Add vertical distance from upright to center of brace to beam connection to the above spans for total beam spans.
- 4. Site specific engineering required for pool enclosures over 30' in mean roof height.
- 5. Height is to be measured from center of beam and upright connection to fascia or wall connection.

 6. Chair rails of 2" × 2" × 0.044" min. and set @ 36" in height are designed to be residential guardrails provided they are attached with min. (3) #10 × 1-1/2" S.M.S. into the screw bosses and do not exceed 8"-0" in span.

 7. Max. beam size for 2" × 5" is 2" × 7" × 0.055" × 0.120"
- 8. Spans may be interpolated.
- 9. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.



2×4.050 Interpolation



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Table 1.4 110 Allowable Post / Girt / Chair Rail Spans, Header Spans & Upright Heights for Secondary Screen Wall Frame Members Aluminum Alloy 6063 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 # / sq. ft.

A Sections As Horizontals Fastened To Posts With Clips

	Tributary Load Width 'W' = Upright Spacing													
Hollow Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"	27.50	8'-0"		9'-0'	•
			Allowa	ble	Height	"H"	or Span	"L'	'/ bend	ing	(b), defle	ectio	on (d)	
2" x 2" x 0.044"	7'-5"	d	6'-5"	Ы	5'-8"	b	5'-1"	b	4'-8"	b	4'-3"	Ь	3'-11"	b
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	b	6'-7"	b	6'-1"	b	5'-9"	b
3" x 2" x 0.045"	8'-4"	d	7'-4"	b	6'-6"	b	5'-10"	b	5'-4"	b	4'-11"	b	4'-7"	b
3" x 2" x 0.070"	9'-5"	d	8'-6"	d	7'-9"	b	7'-0"	b	6'-5"	b	5'-11"	b	5'-7"	b
2" x 3" x 0.045"	8'-4"	d	7'-7"	d	7'-9"	d	6'-11"	ď	6'-5"	d	5'-11"	ь	5'-6"	b
2" x 4" x 0.050"	11'-2"	ь	9'-7"	b	8'-6"	b	7'-9"	b	7'-1"	b	6'-7"	Ь	6'-1"	b
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	11'-11"	b	11'-0"	b	10'-3"	b	9'-7"	Ь

	T			Tril	outary L	oad	Width '	W'=	Upright	Spa	cing	100000000000000000000000000000000000000		
Snap Sections	3'-0'	•	4'-0"		5'-0"		6'-0"		7'-0"		8'-0'	•	9'-0'	"
		-							'/ bend					
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	5'-3"	ď	4'-10"	b	4'-5"	b	4'-1"	b

B. Sections As Horizontals Fastened To Posts Through Side Into Screw Bosses

				Tril	outary L	oad	Width '	N' =	Upright	Sp	acing			
Hollow Sections	3'-0"	П	4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" or Span "L" / bending (b), deflection (d)													
2" x 2" x 0.044"	8'-4"	Ь	7'-2"	Ь	6'-4"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
3" x 2" x 0.045"	9'-7"	b	8'-3"	b	7'-3"	b	6'-6"	b	5'-11"	b	5'-6"	b	5'-1"	b
3" x 2" x 0.070"	11'-5"	Ь	9'-10"	b	8'-8"	b	7'-10"	b	7'-2"	b	6'-8"	b	6'-3"	b
2" x 3" x 0.045"	11'-2"	d	9'-9"	b	8'-8"	b	7'-10"	b	7'-2"	b	6'-8"	b	6'-2"	b
2" x 4" x 0.050"	12'-6"	Ь	10'-9"	b	9'-6"	b	8'-7"	b	7'-11"	b	7'-4"	b	6'-10"	b
2" x 5" x 0.062"	19'-3"	b	16'-7"	b	14'-9"	b	13'-5"	b	12'-4"	b	11'-6"	b	10'-9"	b

Snap Sections	1		Tribu	utary L	oad	Width '	W'=	Upright	Spa	acing			
	3'-0"	4'-0"		5'-0"		6'-0'	•	7'-0'		8'-0"		9'-0'	4
		Allow	able l	Height	"H"	or Spai	ı "L"	/ bend	ing	(b), defle	ectio	n (d)	
2" v 2" v 0 044"	8'-10" d	7'-8"	b	6'-9"	b	6'-0"	b	5'-5"	b	4'-11"	b	4'-7"	b

Note:

- Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- 2. Using screen panel width 'W' select girt lengths.
- 3. Site specific engineering required for pool enclosures over 30' in mean roof height.
- 4. Span/height is to be measured from center of beam and upright connection to fascia or wall connection.
- 5. Chair rails of 2" x 2" x 0.044" min. and set @ 36" in height are designed to be residential gardrails provided they are attached with min. (3) #10 x 1-1/2" s.m.s. into the screw bosses and do not exceed 8'-0" o.c.
- 6. Girl spacing shall not exceed 6'-8".
- 7. Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"
- 8. 2" x 4" & 2" x 5" hollow girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0.044" angle.
- 9. Spans/heights may be interpolated.
- 10. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

Chair RAIL INTERPOLATION

REVISED APRIL 2007

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SECTION 1

SCREENED ENCLOSURES

Minimum Upright Sizes and Number of Screws for Table 1.6 Connection of Roof Beams To Wall Uprights or Beam Splicing

Beam/Upright	Upright or	Minimum Purlin, Girt	Notes	Minimu	Beam Stitching		
or Post	Post/Beam	& Knee Brace Size	- T	#8 x 1/2"	#10 x 1/5"	#12 x 1/3"	Screw at 24" OC
2 x 4 SMB	2 x 3 SMB or H	2" x 2" x 0.044"	Partial Lap	8	6	4.	#10
2 x 5 SMB	2 x 3 SMB or H	2" x 2" x 0.044"	Partial Lap	8	6	4	#8
2 x 6 SMB	2 x 3 5MB or H	2" x 2" x 0.044"	Partial Lap	10	8	6	#10
2 x 7 SMB	2 x 4 SMB or H	2" x 3" x 0.044"	Full Lap	14	12	10	#12
2 x 8 SMB	2 x 5 SMB or H	2" x 3" x 0,044"	Full Lap	16	1.4	12	#14
2 x 9 SMB	2 x 6 SMB	2" x 3" x 0.045"	Full Lap	18	16	14	#14**
2 x 9 SMB *	2 x 7 SMB	2" x 4" x 0.050"	Full Lap	20	18	16	#14**
2 x 10 SMB	2 x 8 SMB	2" x 5" x 0.050"	Full Lap	20	18	16	#14**

Screw Size	Minimum Distance and	Spacing of Screws	Gusset Plate Thickness					
	Edge To Center	Center To Center	Beam Size	Thickness				
#8	5/16"	5/8"	2" x 7" x 0.055" x 0.120"	0.063"				
#10	3/8"	3/4"	2" x 8" x 0.072" x 0.224"	0.125"				
#12	1/2"	1"	2" x 9" x 0.072" x 0.224"	0.125"				
#14 or 1/4"	3/4"	1-1/2"	2" x 9" x 0.082" x 0306"	0.190"				
5/16"	7/8"	1-3/4"	2" x 10" x 0.092" x 0.369"	0.250"				
3/8"	1"	2"						

^{* 0.082&}quot; wall thickness, 0.310" flange thickness

Connection Example:

 $2" \times 7"$ beam & $2" \times 5"$ at beam & gusset plate, (14) #8 × 1/2" sms & upright & gusset plate (14) #8 x 1/2° sms ea. side of beam & upright.

Note:

1. Connection of 2" x 6" to 2" x 4" shall use a full lap cut or 1/16" gusset plate.

2. For beam splice connections the number of screws shown is the total for each splice with 1/2 the screws on each side of the cut.

3. The number of screws is based on the maximum allowable moment of the beam.

4. The number of deck anchors is based on RAWL R Tapper allowable load data for 2,500 psi concrete and / or equal anchors may be used. The number shown is the total use 1/2 per side.

- 5. Hollow splice connections can be made provided the connection is approved by the engineer.6. If a larger than minimum upright is used the number of screws is the same for each splice with 1/2 the screws on each side of
- 7. The side wall upright shall have a minimum beam size as shown above, ie., a 2" x 4" upright shall have a 2" x 3" beam.
- 8. For minimum girt size read upright size as a beam and purlin size is minimum girt size. (i.e. 2" x 9" x 0.072" x 0.224" s.m.b. w/ 2" x 6" x 0.050 x 0.120" s.m.b. upright requires a 2" x 3" x 0.045" girt / chair rail.)

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[&]quot; (1) Stitching screw at 16" O.C. max.