

DATE 03/17/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000026858

APPLICANT CRAIG TIMBERLAE PHONE 352-472-6850
ADDRESS 25370 NW 8 PLACE NEWBERRY FL 32669
OWNER WILLIAM & MARY CRAWLEY PHONE 961.9731
ADDRESS 401 SW OAKWOOD COURT LAKE CITY FL 32024
CONTRACTOR CARL HELMS PHONE 352-472-6850

LOCATION OF PROPERTY 47-S TO KING,TR TO MAULDIN,TL TO DOCKERY,TL TO OAKWOOD
CT,TL LAST HOME ON L @ OAKWOOD CT.

TYPE DEVELOPMENT POOL ENCLOSURES ESTIMATED COST OF CONSTRUCTION 7900.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING AG-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE NA DEVELOPMENT PERMIT NO.

PARCEL ID 34-4S-16-03276-004 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 3.94

SCC056710
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING X08-069 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE

Check # or Cash 2386

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic
date/app. by date/app. by date/app. by
Under slab rough-in plumbing Slab Sheathing/Nailing
date/app. by date/app. by date/app. by
Framing Rough-in plumbing above slab and below wood floor
date/app. by date/app. by
Electrical rough-in Heat & Air Duct Peri. beam (Lintel)
date/app. by date/app. by date/app. by
Permanent power C.O. Final Culvert
date/app. by date/app. by date/app. by
M/H tie downs, blocking, electricity and plumbing Pool
date/app. by date/app. by
Reconnection Pump pole Utility Pole
date/app. by date/app. by date/app. by
M/H Pole Travel Trailer Re-roof
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 40.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 90.00
INSPECTORS OFFICE L. J. Hobbs CLERKS OFFICE CH

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."

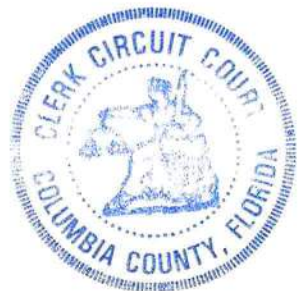
EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION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

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By Shawn Feagle
Deputy Clerk

Date 3-10-08



Inst:200812004616 Date:3/10/2008 Time:8:19 AM
17 DC, P. DeWitt Cason, Columbia County Page 1 of 1

NOTICE OF COMMENCEMENT

STATE OF FLORIDA COUNTY OF Columbia CITY OF Lake City

THE UNDERSIGNED hereby gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

3.94 acres

DESCRIPTION OF PROPERTY:

LOT 34 BLOCK 45 SECTION 16 TOWNSHIP 4S RANGE 16
TAX PARCEL # 34 45 16 03276-004 Hx 5x

SUBDIVISION: —

PLATBOOK: —

MAP PAGE# —

STREET ADDRESS: 401 S.W. Oakwood Ct.

Lake City FL 32024

GENERAL DESCRIPTION OF IMPROVEMENT:

TO CONSTRUCT: Screen Enclosure

OWNER INFORMATION:

OWNER(S) NAME: Crawley, William & Mary

ADDRESS: 401 SW Oakwood Ct.

PHONE 901 9731

CITY: Lake City

STATE FL

ZIP 32024

INTEREST IN THE PROPERTY: Owner

FEE SIMPLE TITLEHOLDER NAME: —

FEE SIMPLE TITLEHOLDER ADDRESS: (IF OTHER THAN OWNER) —

CONTRACTOR NAME: Timberlake Aluminum Construction

Address: 25370 NW 8th Place Newberry FL 32669

BONDING COMPANY: N/A ADDRESS: 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.

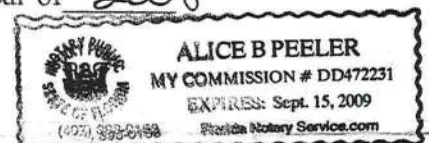
SIGNATURE OF OWNER

SWORN to and subscribed before me this 28th day of Jan year of 2008

Notary Public

My commission expires —

Signature: Alice B. Peeler



***WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING 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 LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

90.00 Jet# 2386

Columbia County Building Permit Application

For Office Use Only Application # 0803-18 Date Received 3/10 By JW Permit # 26858
 Zoning Official BLK Date 12.03.08 Flood Zone N/A FEMA Map # N/A Zoning A-3
 Land Use A-3 Elevation N/A MFE N/A River N/A Plans Examiner DKJH Date 3-10-08
 Comments _____
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☒ State Road Info ☐ Parent Parcel # _____
☐ 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 352-472-6855

Name Authorized Person Signing Permit LARRY COLE / CRAIG TIMBERLAKE Phone 352-472-6850

Address 25370 NW 8th Newberry, FL 32669

Owners Name William & Mary Crawley Phone 386-961-9731

911 Address 401 SW OAKWOOD CT, LAKE CITY, FL 32024

Contractors Name CARL HELMS - Timberlake Aluminum Inc. Phone 352-472-6850

Address 25370 NW 8th Newberry, FL 32669

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address LAWRENCE BENNETT P.O. Box 214368 S DAYTONA FL 32121

Mortgage Lenders Name & Address FIRST FIDELITY

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number 344516 03276-004 HY Estimated Cost of Construction 9,900⁰⁰

Subdivision Name 3.94 Acres Lot _____ Block _____ Unit _____ Phase _____

Driving Directions HWY 47 S - (R) King ST (L) MAULDIN, (L) DOCKERY (L) OAKWOOD COURT

HOUSE IS LAST ON OAKWOOD # 401

Pool Enclosure over existing concrete, concrete by owner Number of Existing Dwellings on Property 1

Construction of Pool Enclosure Total Acreage 3.94 Lot Size _____

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height N/A 10 FT

Actual Distance of Structure from Property Lines - Front 150' Side 25' Side 101' Rear 50'

Number of Stories 1 Heated Floor Area N/A Total Floor Area 1344 Roof Pitch N/A

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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING 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 LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

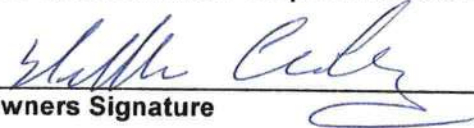
FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails 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.

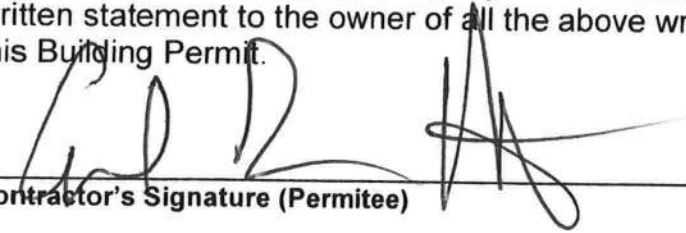
NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED 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 road 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 lot 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

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 Signature (Permitee)

Contractor's License Number SC0056710
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7 day of MARCH 2008.
Personally known or Produced Identification


State of Florida Notary Signature (For the Contractor)

SEAL:



Columbia County Property Appraiser

DB Last Updated: 1/15/2008

2008 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

Parcel: 34-4S-16-03276-004 HX SX

Owner & Property Info

<< Prev

Search Result: 4 of 4

Owner's Name	CRAWLEY WILLIAM G & MARY		
Site Address	OAKWOOD		
Mailing Address	401 SW OAKWOOD CT LAKE CITY, FL 32024		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	34416.00	Tax District	3
UD Codes	MKTA01	Market Area	01
Total Land Area	3.940 ACRES		
Description	COMM NW COR OF SW1/4 OF SE1/4, RUN E 665.95 FT FOR POB, CONT E 581.24 FT TO W R/W CSX RR, S 294.82 FT, W 555.30 FT, S 60.52 FT TO PT OF CURVE ON A CUL-DE-SAC, RUN NW'LY ALONG CURVE 78.54 FT, N 299.97 FT TO POB. ORB 736-563, WD 1011-2811 WD 1070-2597.		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	\$42,552.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$84,171.00
XFOB Value	cnt: (4)	\$10,790.00
Total Appraised Value		\$137,513.00

Just Value	\$137,513.00
Class Value	\$0.00
Assessed Value	\$137,513.00
Exempt Value	(code: HX SX) \$50,000.00
Total Taxable Value	\$87,513.00

Sales History

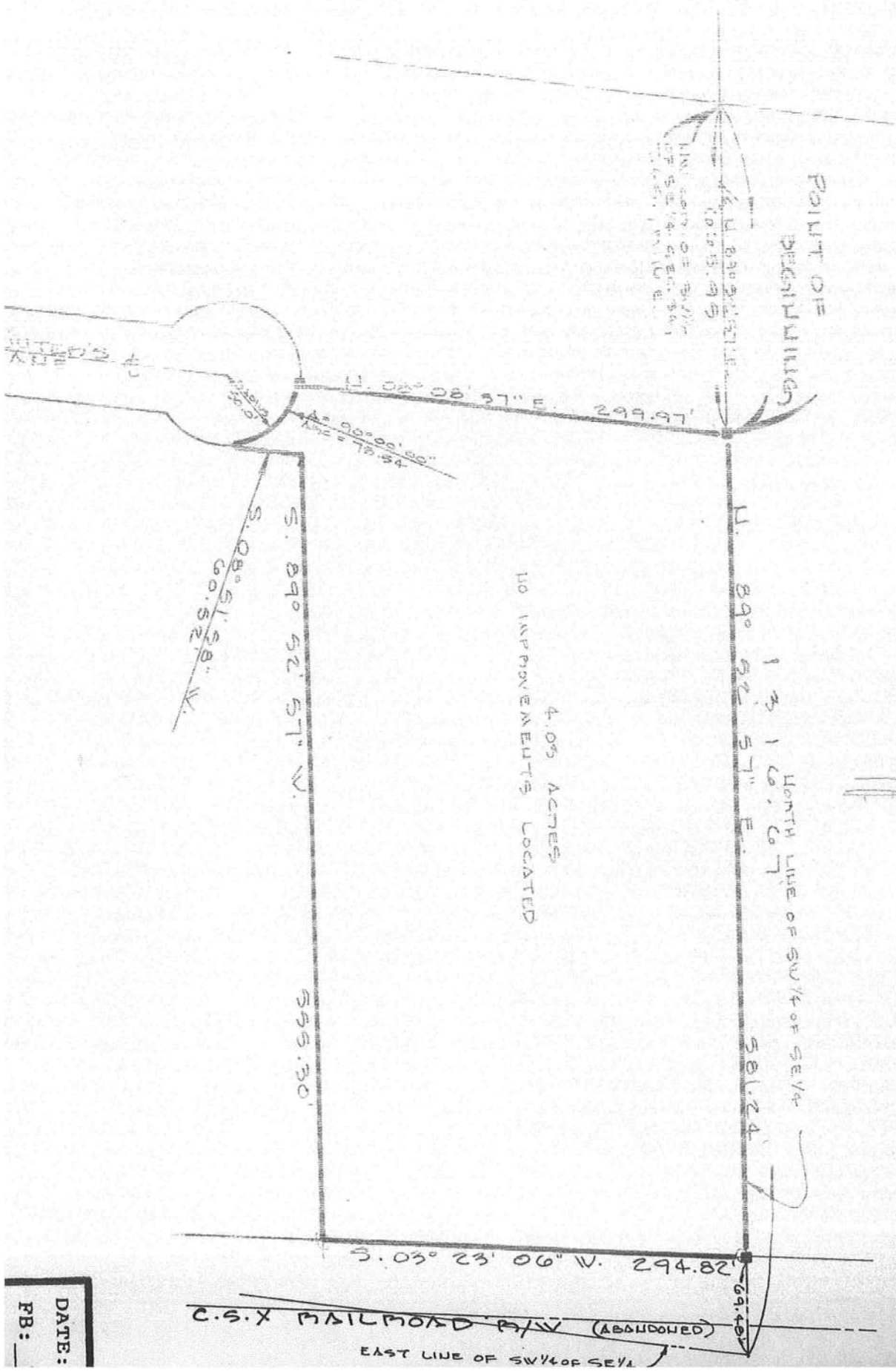
Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
1/9/2006	1070/2597	WD	I	U	06	\$100.00
4/7/2004	1011/2811	WD	I	U	06	\$100.00
11/21/1990	736/563	WD	I	Q		\$69,900.00

Building Characteristics

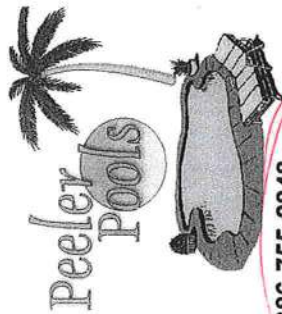
Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1990	Common BRK (19)	1341	2371	\$84,171.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0190	FPLC PF	0	\$1,600.00	1.000	0 x 0 x 0	(.00)
0260	PAVEMENT-A	0	\$800.00	1.000	200 x 10 x 0	(.00)
0210	GARAGE U	1993	\$8,294.00	576.000	24 x 24 x 0	AP (20.00)
0166	CONC,PAVMT	1993	\$96.00	60.000	4 x 15 x 0	AP (20.00)



DESCRIPTION:
A PART OF THE SW 1/4 OF THE SE 1/4 OF SE
MORE PARTICULARLY DESCRIBED AS FOLLO
AND RUN N 89°52'57" E, ALONG THE NO
NING; THENCE CONTINUE N 89°52'57" E,
OF-WAY LINE OF THE ABANDONED CSX RAIL
OF-WAY LINE, 294.82 FEET; THENCE S 1
FEET TO A POINT ON A CURVE OF A CUT-
ERLY ALONG THE ARC OF SAID CURVE TO
AN ARC DISTANCE OF 78.54 FEET; THEN
NING. CONTAINING 4.03 ACRES, MORE



386-755-2848

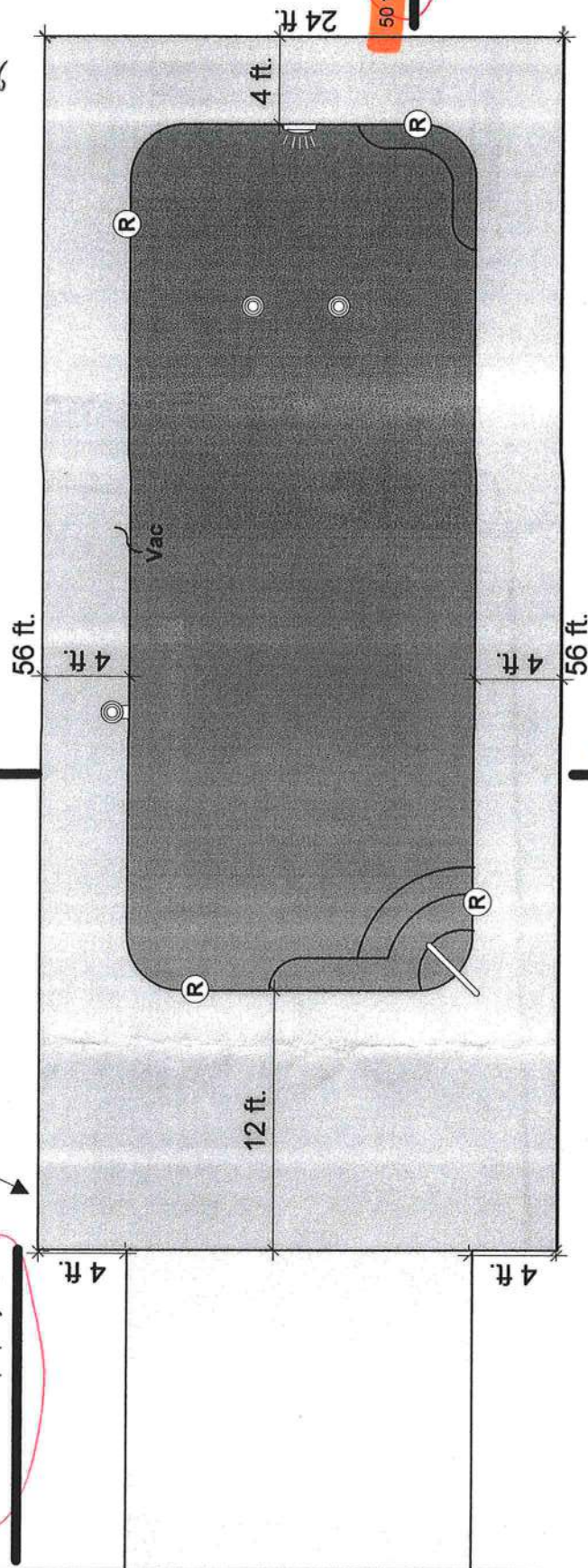
150 ft. to front property line

8' Tall Screen Wall

75 ft. to property line

Proposed Pool Enclosure

P635 d 709



From G-ville- I-75 to Hwy 47 South-
South on 47 3/4 to 1 mile-
Then R King St.—
L Mauldin
L Dockery
L Oakwood Ct.
House is at end of Oakwood

SCALE: 1/8" = 1'

Peeler Pools 9878 S U.S.Hwy 441 Lake City FL 32025	Phone: 386-755-2848 Fax: 386-755-5577	Designed by: Raymond Peeler 1/31/2008	Crawley Designed for: 410 SW Oakwood
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Design Check List for Pool Enclosures (Page 1 of 4)

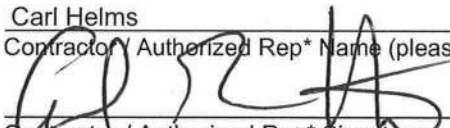
I. Design Statement:

These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and are in compliance with the 2004 Florida Building Code Edition with 2006 Supplements, Chapter 20, ASM35 and The 2005 Aluminum Design Manual Part I-A & II-A; Exposure 'B' ☒ or 'C' ☐ or 'D' ☐; Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and higher; Negative I.P.C. 0.00; ___ MPH Wind Zone for 3 second wind gust; Basic Wind Pressure ___; Design pressures are ___ PSF for roofs & ___ PSF for walls. (see page 1ii for wind loads and design pressures) A 300 PLF point load is also considered for screen roof members.

Notes: Wind velocity zones and exposure category is determined by local code. Design pressures and conversion multipliers are on page 1-ii.

II. Host Structure Adequacy Statement:

I have inspected and verify that the host structure is in good repair and attachments made to the structure will be solid.

Carl Helms Phone: 352-472-6850
Contractor / Authorized Rep* Name (please print)

Contractor / Authorized Rep* Signature Date: 3-7-08

Crawley / 401 sw Oakwood CT
Job Name & Address

Note: If the total of beam span & upright height exceeds 50' or upright height exceeds 16', site specific engineering is required.

III. Building Permit Application Package contains the following:

- | | Yes | No |
|--|-------------------------------------|--------------------------|
| A. Project name & address on plans | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B. Site plan or survey with enclosure location | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C. Contractor's / Designer's name, address, phone number, & signature on plans | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D. Site exposure form completed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E. Enclosure layout drawing @ 1/8" or 1/10" scale with the following: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1. Plan view with host structure, enclosure length, projection from host structure, and all dimensions | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Front and side elevation views with all dimensions & heights | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Note:
All mansard wall drawings shall include mansard panel at the top of the wall. | | |
| 3. Beam location (show in plan & elevation view) & size (Table 1.1 & 1.6) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Roof 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 ___:

Note: Conversion factors do not apply to members subject to point load (P).

Look up span in appropriate 120 MPH span table and apply the following formula:

$$\begin{array}{ccc} \text{Span} & & \text{Required Converted} \\ \text{@ 120 MPH} & \downarrow & \text{Span / Height} \\ & \downarrow & \\ & 0.00 (b \text{ or } d) \times 1.00 (b \text{ or } d) \times 1.00 (b \text{ or } d) = & \\ \text{Wind Zone Multiplier} & & \text{Exposure Multiplier} \\ \text{(see page 1ii)} & & \text{(see page 1ii)} \end{array}$$

- | | | |
|--|-------------------------------------|--------------------------|
| 4. Upright location (show in plan & elevation view) & size (Table 1.3 & 1.6) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Chair rail & girt size, length, & spacing (Table 1.4) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Eave rail size, length, spacing and stitching of (Table 1.2) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

* 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:

$$\begin{array}{c} \text{Span / Height} \\ \text{@ 120 MPH} \\ \text{or } \underline{\hspace{1cm}} \text{ MPH} \end{array} \quad \begin{array}{c} \swarrow \\ \text{0.00} \\ \text{Wind Zone} \\ \text{Multiplier **} \end{array} \quad \begin{array}{c} \text{(b or d) x } \frac{1.00}{\text{Wind Zone}} \\ \text{Multiplier **} \end{array} \quad \begin{array}{c} \swarrow \\ \text{1.00} \\ \text{Exposure Multiplier} \\ \text{(see page 1ii)} \end{array} \quad \begin{array}{c} \text{(b or d) x } \frac{1.00}{\text{Exposure Multiplier}} \\ \text{Exposure Multiplier} \\ \text{(see page 1ii)} \end{array} \quad \begin{array}{c} \swarrow \\ \text{1.00} \\ \text{Exposure Multiplier} \\ \text{(see page 1ii)} \end{array} \quad \begin{array}{c} \text{(b or d) = } \underline{\hspace{1cm}} \\ \text{Exposure Multiplier} \\ \text{(see page 1ii)} \end{array} \quad \begin{array}{c} \swarrow \\ \text{Required Converted} \\ \text{Span / Height} \end{array}$$

	Yes	No
7. Enclosure roof diagonal bracing in plan view	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Knee braces length, location, & size	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Table 1.7)		
9. Wall cables or K-bracing sizes shown in wall views	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Highlight details from the Aluminum Structures Design Manual:	Yes	No
A. Beam & purlin tables with size, thickness, spacing, & spans / lengths	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Tables 1.1 & 1.2 or 1.9.1 & 1.9.2)		
B. Upright & girt tables with size, thickness, spacing, & spans / lengths	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Tables 1.3 & 1.4)		
C. Table 1.6 with beam & upright combination	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Connection details to be use such as:		
1. Beam to upright	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Beam to wall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Beam to beam	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Chair rail, purlins, & knee braces	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Extruded gutter connections	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Angle to deck and / or sole plate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Anchors go through pavers into concrete	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Minimum footing and / or knee wall details	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Cable or K- brace details Section 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Front wall @ eave: $\frac{\text{W}}{\text{H}} \text{ ft. x } \frac{\text{H}}{\text{a}} \text{ ft.} = \frac{0.00}{\text{a}} \text{ ft.}^2 @ 100\% = \underline{\hspace{1cm}} \text{ ft.}^2$

Largest side wall: $\frac{\text{W}}{\text{H}} \text{ ft. x } \frac{\text{H}}{\text{b}} \text{ ft.} = \frac{0.00}{\text{b}} \text{ ft.}^2 @ 50\% = \underline{\hspace{1cm}} \text{ ft.}^2$

Total area / (233 ft.² / cable for 3/32") = $\frac{0}{\text{cable}} \text{ cable pairs}$ TOTAL = $\underline{\hspace{1cm}} \text{ ft.}^2$

or

Total area / (445 ft.² / cable for 1/8") = $\underline{\hspace{1cm}} \text{ cable pairs}$

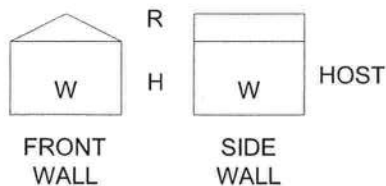
Side wall cable calculation: $\frac{0.00}{\text{b}} \text{ ft.}^2 @ 100\% = \underline{\hspace{1cm}} \text{ ft.}^2$

Side wall area / (233 ft.² / cable for 3/32") = $\underline{\hspace{1cm}} \text{ cable(s)}$

or

Side wall area / (445 ft.² / cable for 1/8") = $\underline{\hspace{1cm}} \text{ cable(s)}$

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



Example 2: Gable Roof

$$\begin{aligned}
 \text{Front wall @ eave: } & \frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \frac{0.00 \text{ ft.}^2}{a} @ 100\% = \underline{\hspace{2cm}} 0.00 \text{ ft.}^2 \\
 \text{Front gable rise: } & \frac{\text{ft.}}{R} \times \frac{1}{2} \left(\frac{\text{ft.}}{W} \right) = \frac{0.00 \text{ ft.}^2}{b} @ 100\% = \underline{\hspace{2cm}} 0.00 \text{ ft.}^2 \\
 \text{Largest side wall: } & \frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \frac{0.00 \text{ ft.}^2}{c} @ 50\% = \underline{\hspace{2cm}} 0.00 \text{ ft.}^2 \\
 \text{Largest side gable rise: } & \frac{\text{ft.}}{R} \times \frac{\text{ft.}}{W} = \frac{0.00 \text{ ft.}^2}{d} @ 50\% = \underline{\hspace{2cm}} 0.00 \text{ ft.}^2 \\
 \text{TOTAL} = & \underline{\hspace{2cm}} 0.00 \text{ ft.}^2
 \end{aligned}$$

Total area / (233 ft.² / cable for 3/32") = 0 cable pairs

or

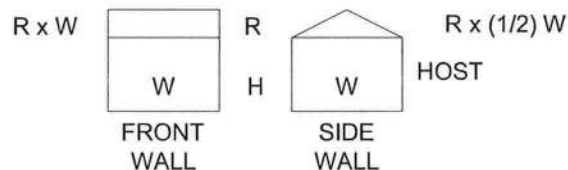
Total area / (445 ft.² / cable for 1/8") = 0 cable pairs

$$\text{Side wall cable calculation: } \frac{0.00 \text{ ft.}^2}{c} + \frac{0.00 \text{ ft.}^2}{d} = \frac{0.00 \text{ ft.}^2}{\text{ }} @ 100\% = \underline{\hspace{2cm}} 0.00 \text{ ft.}^2$$

Side wall area / (233 ft.² / cable for 3/32") = 0 cable(s)

or

Side wall area / (445 ft.² / cable for 1/8") = 0 cable(s)



Example 3: Transverse Gable Roof

$$\begin{aligned}
 \text{Front wall @ eave: } & \frac{56.00 \text{ ft.}}{W} \times \frac{8.00 \text{ ft.}}{H} = \frac{448.00 \text{ ft.}^2}{a} @ 100\% = \underline{\hspace{2cm}} 448.00 \text{ ft.}^2 \\
 \text{Front gable rise: } & \frac{4.00 \text{ ft.}}{R} \times \frac{56.00 \text{ ft.}}{W} = \frac{224.00 \text{ ft.}^2}{b} @ 100\% = \underline{\hspace{2cm}} 224.00 \text{ ft.}^2 \\
 \text{Largest side wall: } & \frac{24.00 \text{ ft.}}{W} \times \frac{8.00 \text{ ft.}}{H} = \frac{192.00 \text{ ft.}^2}{c} @ 50\% = \underline{\hspace{2cm}} 96.00 \text{ ft.}^2 \\
 \text{Largest side gable rise: } & \frac{4.00 \text{ ft.}}{R} \times \frac{1}{2} \left(\frac{24.00 \text{ ft.}}{W} \right) = \frac{48.00 \text{ ft.}^2}{d} @ 50\% = \underline{\hspace{2cm}} 24.00 \text{ ft.}^2 \\
 \text{TOTAL} = & \underline{\hspace{2cm}} 792.00 \text{ ft.}^2
 \end{aligned}$$

Total area / (233 ft.² / cable for 3/32") = 3 cable pairs

or

Total area / (445 ft.² / cable for 1/8") = 2 cable pairs

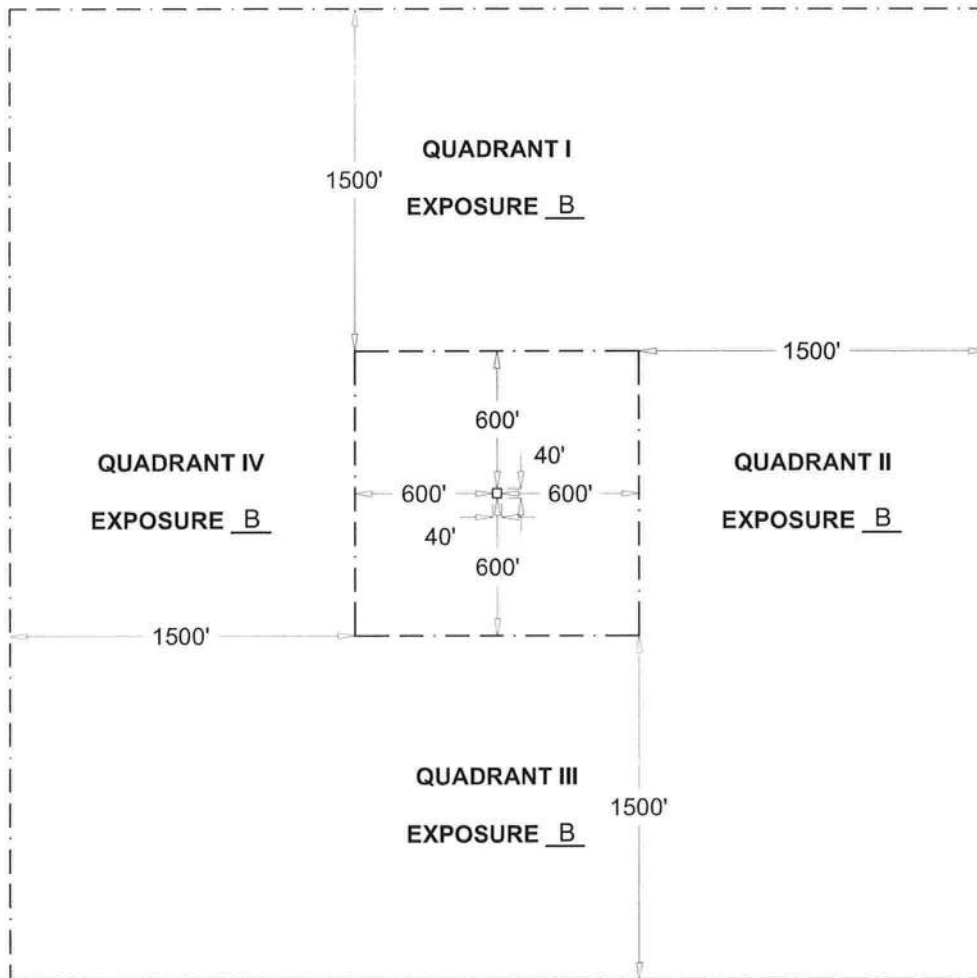
$$\text{Side wall cable calculation: } \frac{192.00 \text{ ft.}^2}{c} + \frac{48.00 \text{ ft.}^2}{d} = \frac{240.00 \text{ ft.}^2}{\text{ }} @ 100\% = \underline{\hspace{2cm}} 240.00 \text{ ft.}^2$$

Side wall area / (233 ft.² / cable for 3/32") = 1 cable(s)

or

Side wall area / (445 ft.² / cable for 1/8") = 1 cable(s)

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'.

4. 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: Carl Helms DATE: 2/5/08

SIGNATURE: [Signature] LICENSE #: SCC056710

$6'4" = 23'1" \times 1.13 = 26'1"$

6005-T5 ALLOY

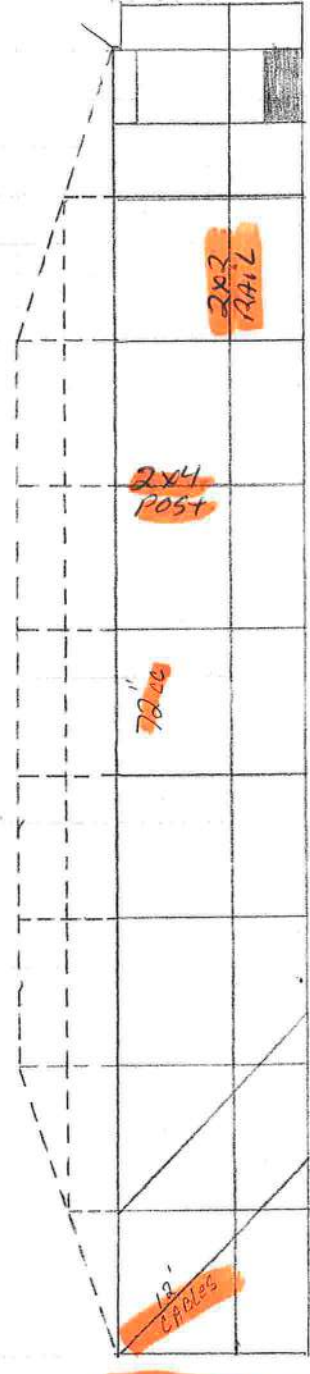
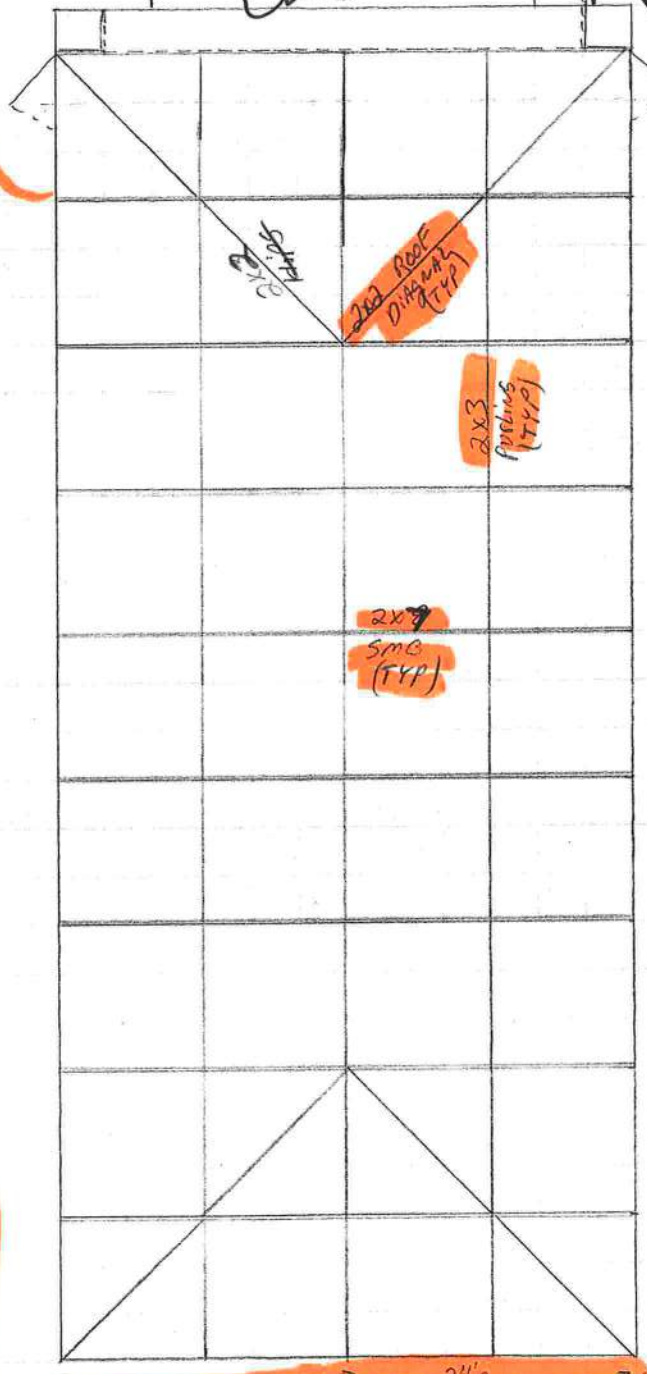
2x7 Smb Interpolation

TIMBERLAKE ALUMINUM
CONSTRUCTION, INC.
25370 NW 8th Place
NEWBERRY, FL 32669

Handwritten signature

CRAWLEY/Reed & Paul
4015w OAKWOOD CT
LAKE CITY FL

56



2x4 post interpolation
 $6'4" = 7'9" \times 1.13 = 8'9"$
6005-T5 ALLOY



2x3 post interpolation
 $6'4" = 6'11" \times 1.13 = 7'9"$
6005-T5 ALLOY
 $7'9" \times 1.10 = 8'7"$
18x14 screen

FILE COPY

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

Wind Velocity MPH	Basic Wind Pressure	Exposure 'B'			Exposure 'C'		
		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'

Wind Zone MPH	Roofs		Walls	
	Applied Load #/ SF	Conversion Factor	Applied Load #/ SF	Conversion Factor
100	3	1.15	12	1.12
110	4	1.00	13	1.07
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

Note:

Multipliers are for wall loads only.

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

Conversion Table 1B

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

Mean Roof Height*	Exposure "B" to "C"			Exposure "B" to "D"		
	Load Conversion Factor	Span Multiplier		Load Conversion Factor	Span Multiplier	
		Bending	Deflection		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

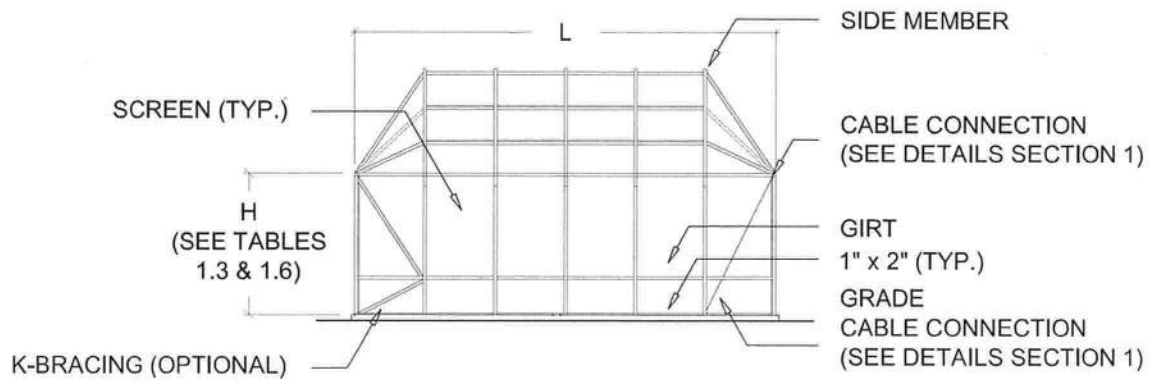
* Use larger mean roof height of host structure or enclosure

Values are from ASCE 7-02

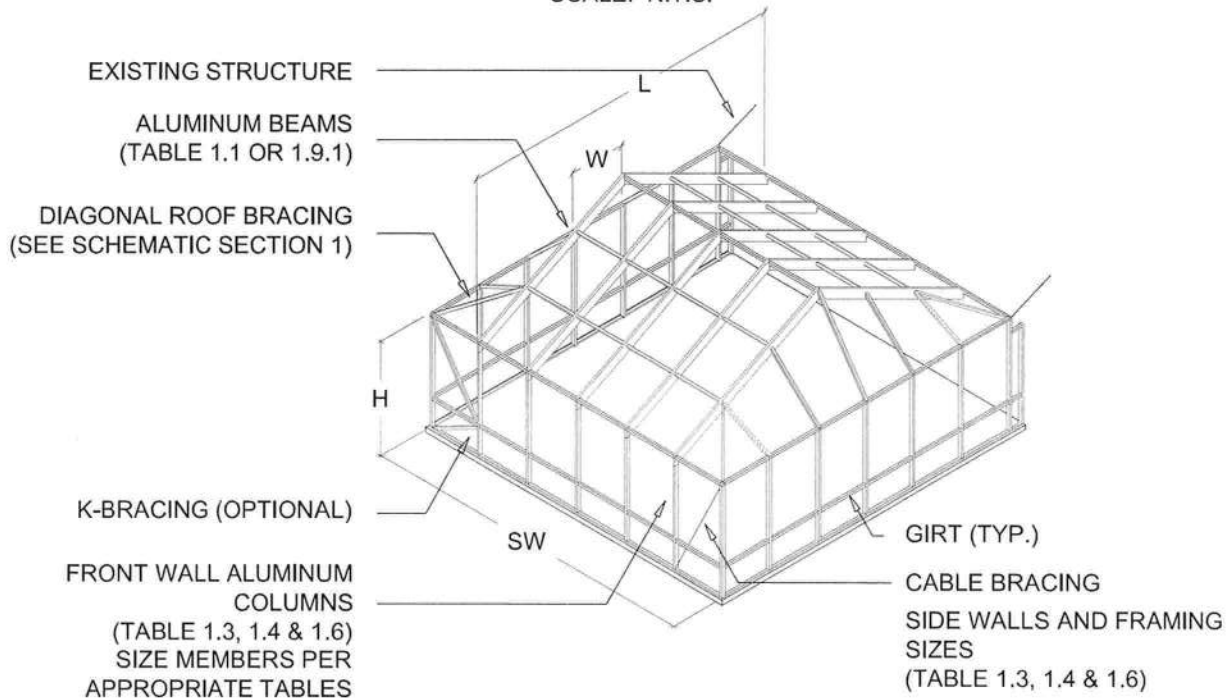
Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

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**

SCALE: N.T.S.

**TYPICAL MODIFIED HIP ROOF - ISOMETRIC**

SCALE: N.T.S.

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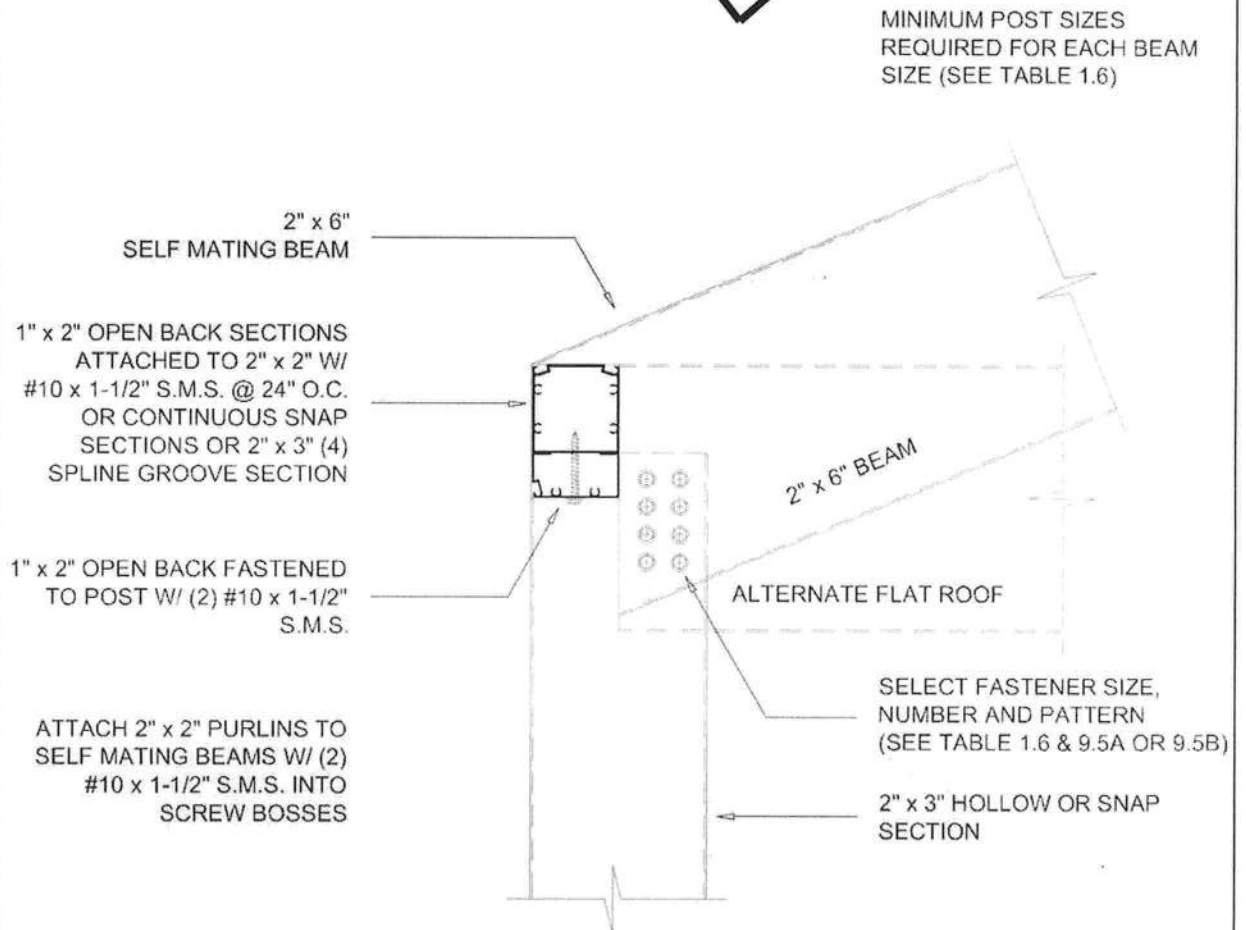
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SCREENED ENCLOSURES

SECTION 1



SLOPING BEAM TO UPRIGHT CONNECTION DETAIL (PARTIAL LAP)

SCALE: 3" = 1'-0"

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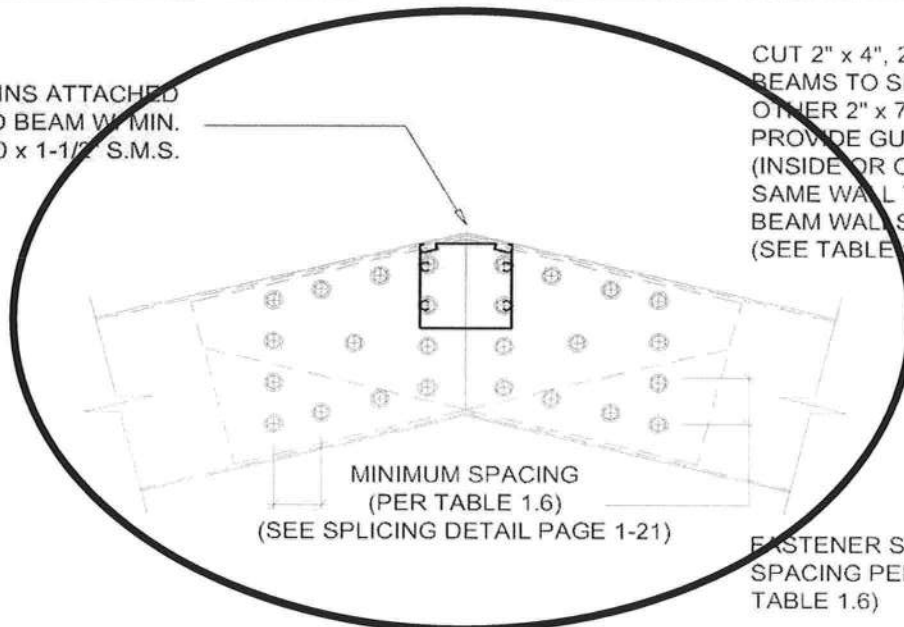
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SECTION 1

SCREENED ENCLOSURES

2" x 2" PURLINS ATTACHED
TO BEAM W/ MIN.
(3) #10 x 1-1/2" S.M.S.



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 OR OUTSIDE BEAM)
SAME WALL THICKNESS AS
BEAM WALLS OR LARGER
(SEE TABLE 1.6)

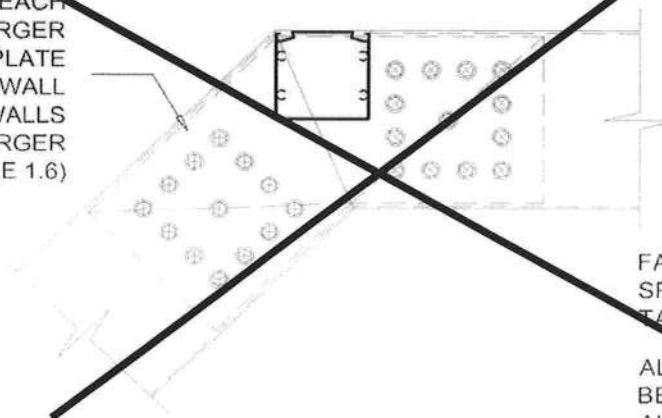
MINIMUM SPACING
(PER TABLE 1.6)
(SEE SPLICING DETAIL PAGE 1-21)

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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PAGE

1-20

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SCREENED ENCLOSURES

SECTION 1

1/4" x 2" LAG SCREWS @ 24"
O.C. OR #10 x 2" SCREWS @
12" O.C. MIN. AND (2) @ EACH
STRAP
OPTIONAL 1" x 2" OR 2" x 2"
FOR SCREEN

SELF-MATING
BEAM
(SIZE VARIES)

ANGLE, INTERIOR OR
EXTERIOR RECEIVING
CHANNEL (SEE SECTION 9)

SUPER OR
EXTRUDED
GUTTER

2" x ___ x 0.050" STRAP
@ EACH BEAM CONNECTION
AND @ 1/2 BEAM SPACING W/
(2) #8 x 1/2" S.M.S. PER STRAP

MAX. DISTANCE FROM FASCIA
TO HOST STRUCTURE WALL
(SEE TABLE 1.11)

ALTERNATE SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 3" = 1'-0"

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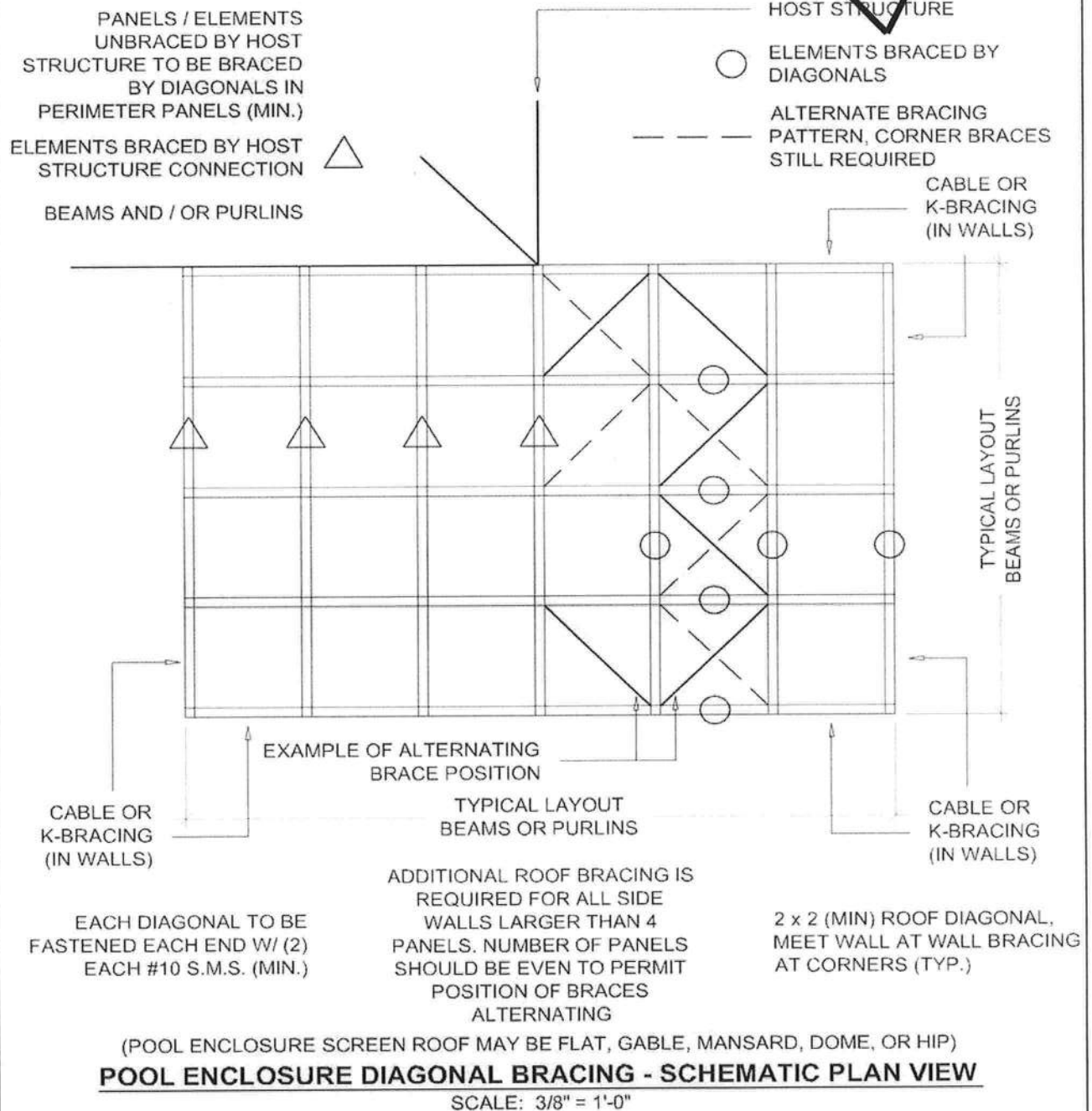
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PAGE

1-27

SECTION 1

SCREENED ENCLOSURES



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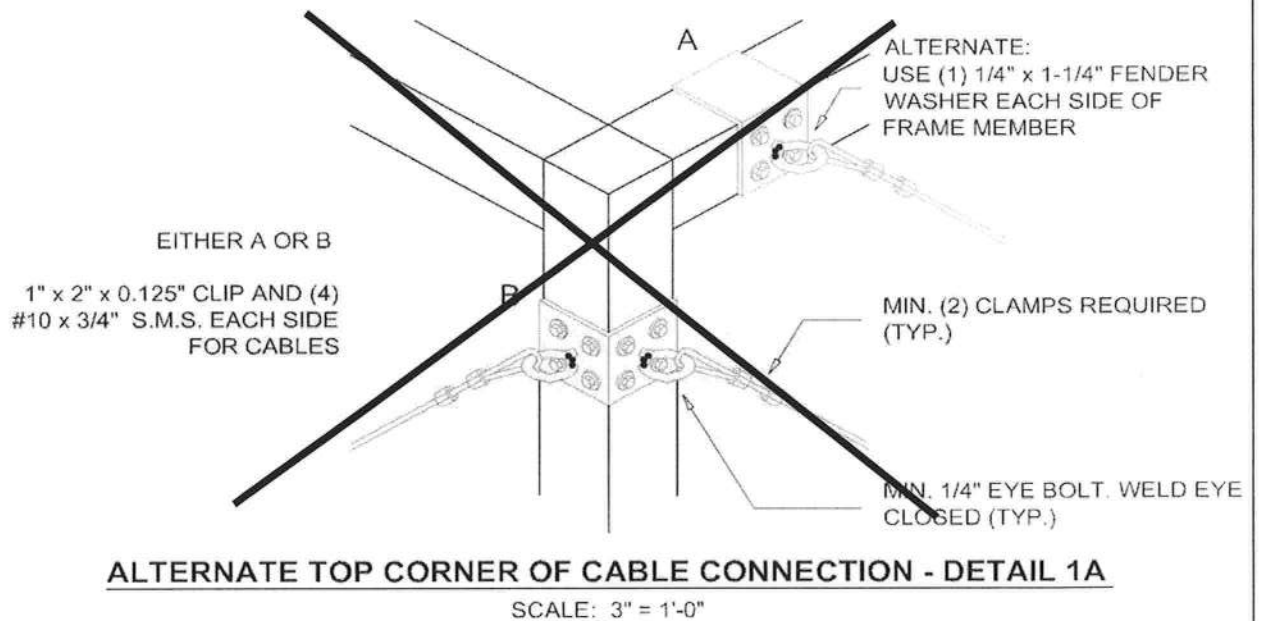
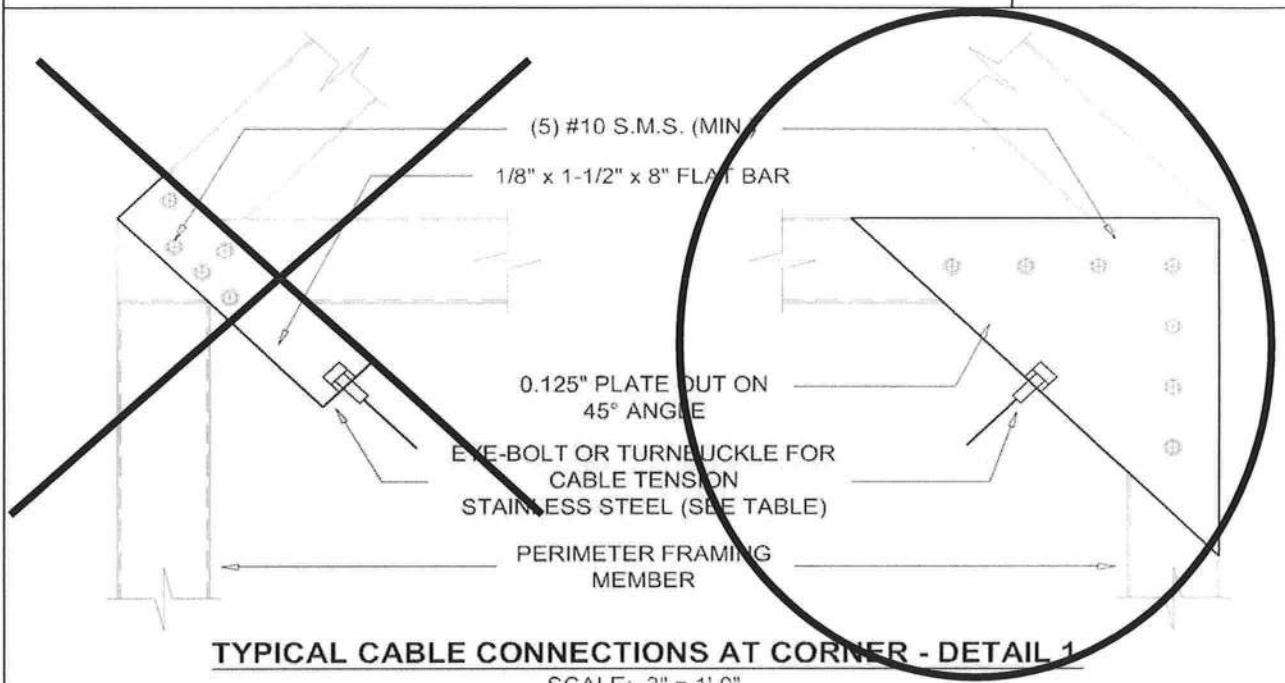
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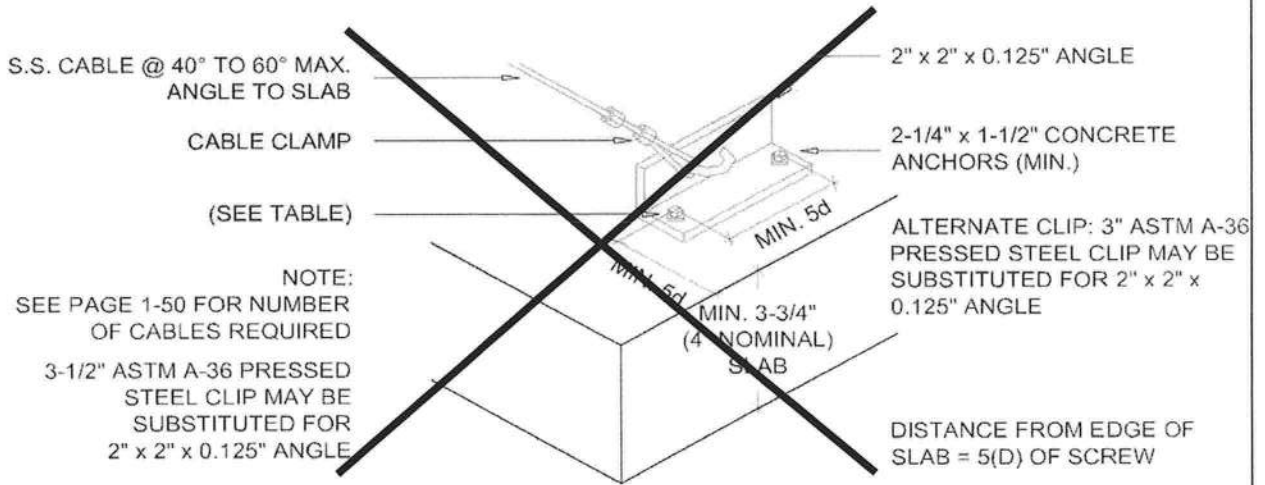
SECTION 1



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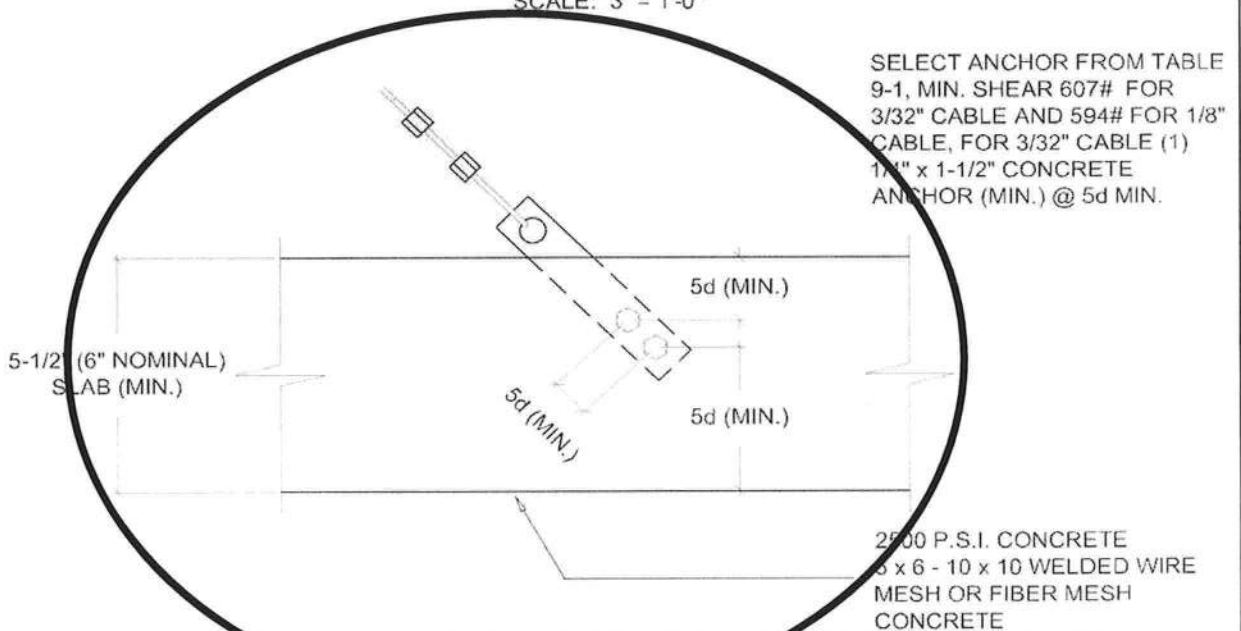
SCREENED ENCLOSURES

SECTION 1



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 3" = 1'-0"



ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2C

SCALE: 3" = 1'-0"

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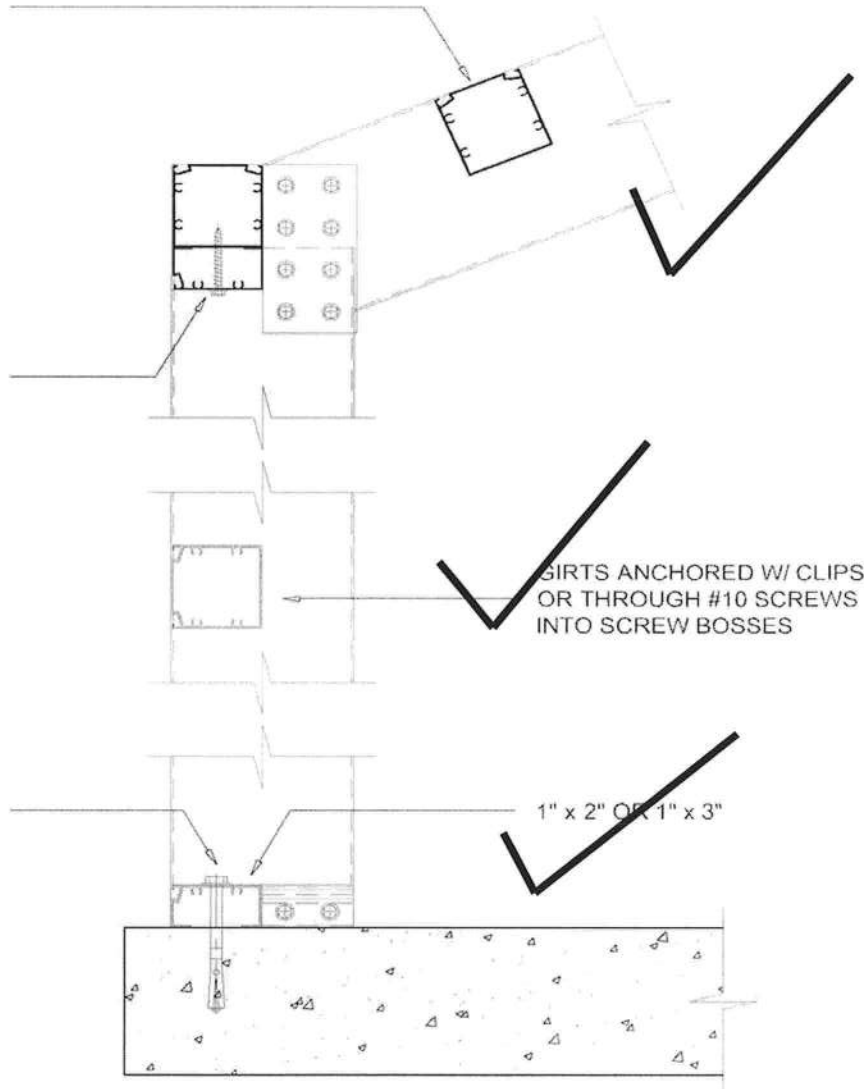
SECTION 1

SCREENED ENCLOSURES

PURLINS ANCHORED W/
CLIPS OR #10 SCREWS
THROUGH PURLINS INTO
SCREW BOSSES

EAVE RAILS SHALL BE
STITCHED W/ #10 x 1-1/2" SMS
@ 6" FROM EACH END AND 24"
OC MAX.

FRONT AND SIDE BOTTOM
RAILS ATTACHED TO
CONCRETE W/ 1/4" x 2-1/4"
CONCRETE / MASONRY
ANCHORS @ PRIMARY &
SECONDARY ANGLES OR @ 6"
FROM EACH POST AND 24"
O.C. MAX. AND WALLS MIN. 1"
FROM EDGE OF CONCRETE



PURLIN & CHAIR RAIL DETAIL

SCALE: 3" = 1'-0"

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PAGE

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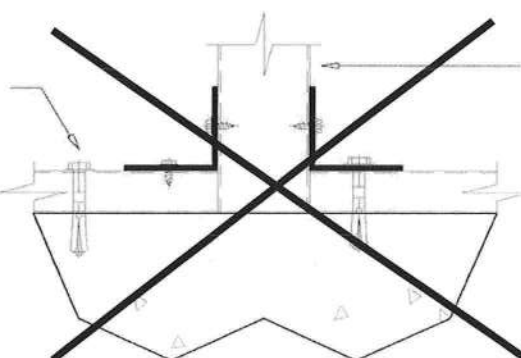
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SCREENED ENCLOSURES

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 x 6 - 10 x 10
WELDED WIRE MESH OR
FIBER MESH CONCRETE



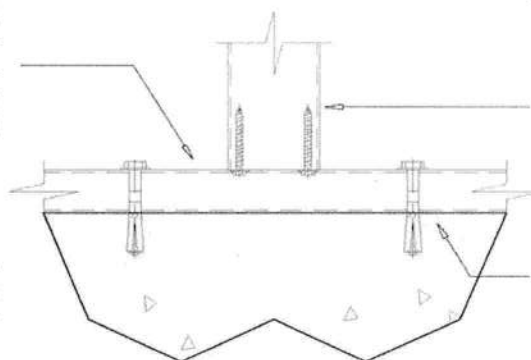
POST SIZE 2" x 4" MAX.

SIDE WALL POST TO PLATE TO CONCRETE DETAIL

SCALE: 3" = 1'-0"

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 BUSHES

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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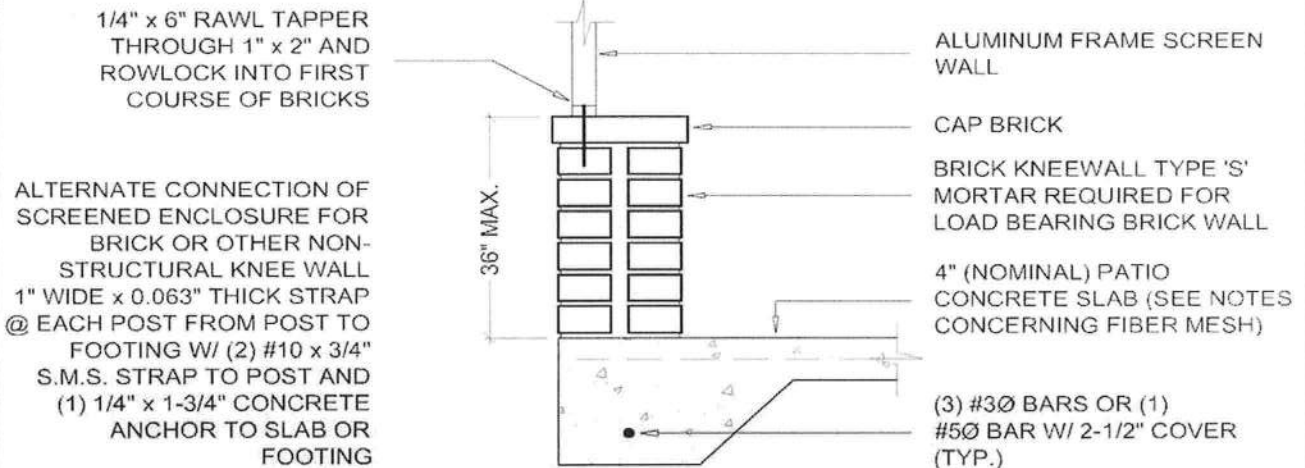
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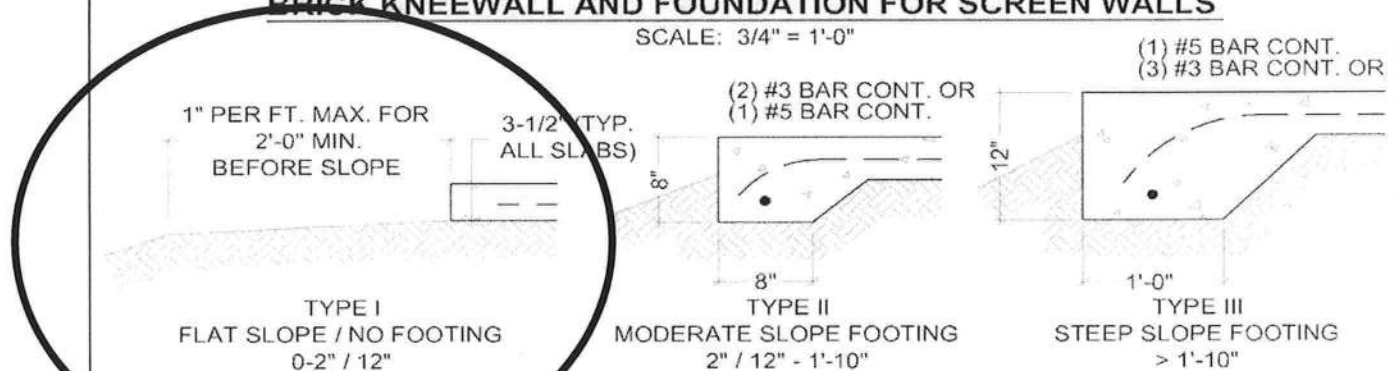
SCREENED ENCLOSURES

SECTION 1



BRICK KNEEWALL AND FOUNDATION FOR SCREEN WALLS

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



Notes for all foundation types:

1. 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.
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 category 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.
5. 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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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

Tributary Load Width 'W' = Beam Spacing												
Hollow Sections	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"					
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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
2" x 2" x 0.050"	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'-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
2" x 4" x 0.050"	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
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5"	Pb	20'-4"	Ud	19'-4"	Ud	18'-6"	Ud

Tributary Load Width 'W' = Beam Spacing												
Self Mating Sections	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"					
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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
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
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
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
2" x 8" x 0.062" x 0.120"	34'-2"	Pd	32'-9"	Ud	30'-5"	Ud	28'-2"	Ud	27'-2"	Ud	25'-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
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
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

Tributary Load Width 'W' = Beam Spacing												
Snap Sections	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"					
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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
2" x 3" x 0.045"	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
2" x 6" x 0.062"	22'-2"	Pd	22'-2"	Pd	22'-2"	Pd	21'-5"	Ud	20'-5"	Ud	19'-6"	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

Note:

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
 2. 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.
 4. 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"

2x7 SMB Interpolation

$$6'0" = 23'1" \times 1.13 = 26'1"$$

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PAGE

1-74

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SCREENED ENCLOSURES

SECTION 1

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

Hollow Sections	Tributary Load Width 'W' = Purlin Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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	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

Snap Sections	Tributary Load Width 'W' = Purlin Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)													
2" 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

Hollow Sections	Tributary Load Width 'W' = Purlin Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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"	22'-4"	Pd	22'-4"	Pd	22'-4"	Pd	21'-7"	Ud	20'-11"	Ud	20'-4"	Ud	19'-7"	Ud

Snap Sections	Tributary Load Width 'W' = Purlin Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)													
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 16' including a 4' max. mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
4. 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.
6. 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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SECTION 1

SCREENED ENCLOSURES

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.

Hollow Sections	Tributary Load Width 'W' = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (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'-3"	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"	b	5'-6"	b
2" x 4" x 0.050"	11'-2"	b	9'-7"	b	8'-6"	b	7'-9"	b	7'-1"	b	6'-7"	b	6'-1"	b
2" x 6" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	11'-0"	b	11'-0"	b	10'-3"	b	9'-7"	b

Self Mating Sections	Tributary Load Width 'W' = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 4" x 0.044 x 0.100"	11'-11"	d	10'-10"	d	10'-0"	d	9'-5"	b	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"	b	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"	d	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"	b
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

Snap Sections	Tributary Load Width 'W' = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	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"	d	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"	d	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"	d	16'-4"	d	15'-7"	d	14'-10"	d	14'-2"	b

Notes:

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" x 2" x 0.044" min. and set @ 36" in height are designed to be residential guardrails 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" in span.
7. Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 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.

2x3.045 Interpolation

$$64 = 6'11" \times 1.13 = 7'9" \times 1.10 = 8'7"$$

↑
6005-T5
Alloy

↑
18x14
Screen

2x4.050 Interpolation

$$64 = 7'9" \times 1.13 = 8'9"$$

↑
6005-T5
Alloy

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PAGE

1-80

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SECTION 1

SCREENED ENCLOSURES

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

Hollow Sections	Tributary Load Width "W" = Upright Spacing						
	3'-0"	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"	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
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" d	6'-5" d	5'-11" b	5'-6" b
2" x 4" x 0.050"	11'-2" b	9'-7" b	8'-6" b	7'-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'-0" b	11'-0" b	10'-3" b	9'-7" b

Snap Sections	Tributary Load Width "W" = Upright Spacing						
	3'-0"	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"	6'-7" d	5'-11" d	5'-7" d	5'-3" d	4'-10" b	4'-5" b	4'-1" b

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

Hollow Sections	Tributary Load Width "W" = Upright Spacing						
	3'-0"	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" b	7'-2" b	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" b	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" b	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	Tributary Load Width "W" = Upright Spacing						
	3'-0"	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'-10" d	7'-8" b	6'-9" b	6'-0" b	5'-5" b	4'-11" b	4'-7" b

Note:

1. 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 guardrails 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. Girt 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.

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PAGE

1-84

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SECTION 1

SCREENED ENCLOSURES

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

Beam/Upright or Post	Upright or Post/Beam	Minimum Purlin, Girt & Knee Brace Size	Notes	Minimum Number of Screws*			Beam Stitching Screw at 24" OC
				#8 x 1/2"	#10 x 1/2"	#12 x 1/2"	
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 SMB 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	14	12	#12
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 0.306"	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" wall thickness, 0.310" flange thickness

** (1) Stitching screw at 16" O.C. max.

Connection Example:

2" x 7" beam & 2" x 5" at beam & gusset plate, (14) #8 x 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 the cut.
7. The side wall upright shall have a minimum beam size as shown above, i.e., 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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