

DATE 09/28/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025037

APPLICANT ANDREW TURNER, AGENT PHONE 352.208.8821
ADDRESS 1506 SW 15TH AVE Ocala FL 34474
OWNER ABRAHAM PALLAS PHONE 386.758.8657
ADDRESS 143 SW CYPRESSWOOD GLEN LAKE CITY FL 32025
CONTRACTOR WILLIAM WOODARD PHONE 352 369.1444
LOCATION OF PROPERTY 441S, TR ON CR 349, TL ON CHERRYWOOD WAY, CORNER OF
CHERRYWOOD AND CEDARWOOD GLEN ON RIGHT

TYPE DEVELOPMENT POOL ENCLOSURE ESTIMATED COST OF CONSTRUCTION 9300.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING A-3 MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE DEVELOPMENT PERMIT NO.

PARCEL ID 27-5S-17-09415-120 SUBDIVISION MAGNOLIA PLACE
LOT 20 BLOCK PHASE UNIT TOTAL ACRES 5.00

CGC047465
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING X-06-0333 CFS JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE.

Check # or Cash 6192

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 50.00 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 100.00
INSPECTORS OFFICE CLERKS OFFICE

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."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

NOTES

The image contains two hand-drawn diagrams of a rectangular building layout, oriented vertically.

Top Diagram: A rectangle with a central area labeled 'N'. To the left of the rectangle, there is a vertical dimension line with the number '88' and a horizontal dimension line with the number '8'. The rectangle itself has a vertical dimension on the left labeled '1x2-2x1' and a horizontal dimension on the top labeled '1x2-104 1/2'. Inside the rectangle, there are several handwritten labels: '8 1/2' at the top, '8 1/2' on the right, '8 1/2' at the bottom, and '8 1/2' on the left. There is also a label '8 1/2' near the bottom left corner.

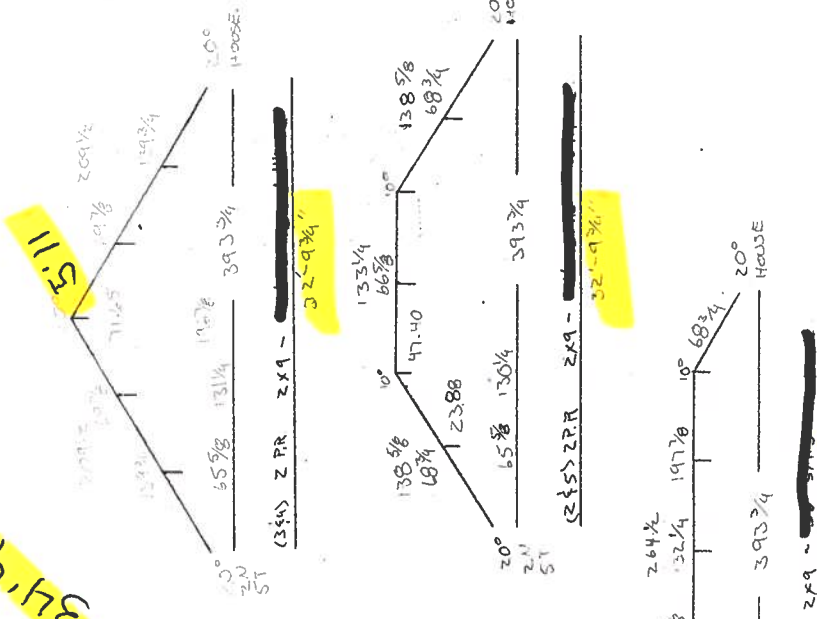
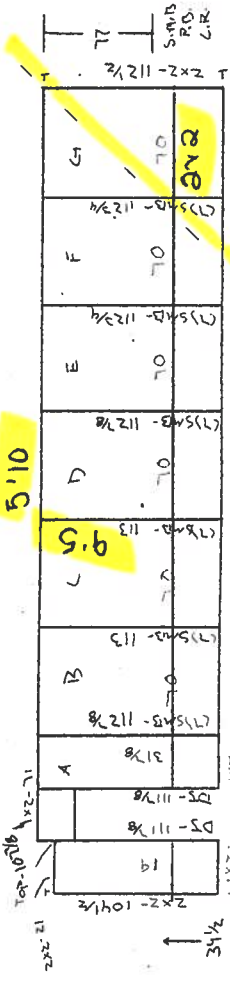
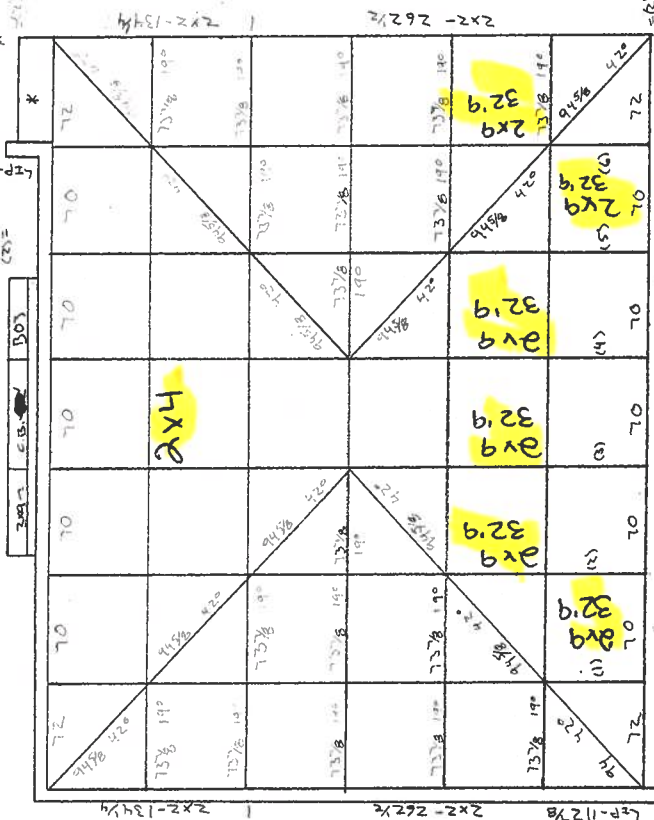
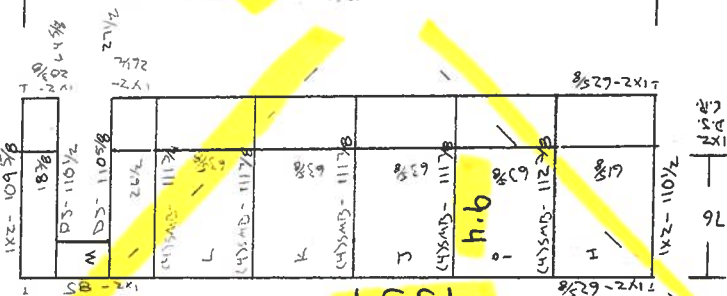
Bottom Diagram: A rectangle with a central area labeled 'X'. To the left of the rectangle, there is a vertical dimension line with the number '88' and a horizontal dimension line with the number '8'. The rectangle itself has a vertical dimension on the left labeled '1x2-2x1' and a horizontal dimension on the top labeled '1x2-104 1/2'. Inside the rectangle, there are several handwritten labels: '8 1/2' at the top, '8 1/2' on the right, '8 1/2' at the bottom, and '8 1/2' on the left. There is also a label '8 1/2' near the bottom left corner.

L.F.S.G. 521

USE# 4436 92

505

505



DATE04/27/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT000024442

APPLICANTTHOMAS SOLBERG

PHONE352 472-8484

ADDRESS18308SW 15TH AVE

NEWBERRYFL32669

OWNERABRAHAM & PAMELA PALLAS

PHONE

ADDRESS143SW CEDARWOOD GLEN

LAKE CITYFL32055

CONTRACTORPARADISE POOL COMPANY

PHONE352 472-8484

LOCATION OF PROPERTY

441S, TR ON CR 349, TL ON CHERRYWOOD WAY, CORNER OF
CHERRYWOOD AND CEDARWOOD GLEN ON RIGHT

TYPE DEVELOPMENTSWIMMING POOL

ESTIMATED COST OF CONSTRUCTION20000.00

HEATED FLOOR AREA0.00

TOTAL AREA0.00

HEIGHT0.00

STORIES0

FOUNDATION

WALLS

ROOF PITCH

FLOOR

LAND USE & ZONINGA-3

MAX. HEIGHT0

Minimum Set Back Requirments:

STREET-FRONT30.00

REAR25.00

SIDE25.00

NO. EX.D.U.0

FLOOD ZONENA

DEVELOPMENT PERMIT NO.

PARCEL ID27-SS-17-09415-120

SUBDIVISIONMAGNOLIA PLACE

LOT20

BLOCK

PHASE

UNIT0

TOTAL ACRES0.00

CPC1456716

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

EXISTING

X06-0133N

BK

JH

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS:

NOC ON FILE

Check # or Cash1069

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 \$100.00

CERTIFICATION FEE \$0.00

SURCHARGE FEE \$0.00

MISC. FEES \$0.00

ZONING CERT. FEE \$50.00

FIRE FEE \$0.00

WASTE FEE \$0.00

FLOOD DEVELOPMENT FEE \$0.00

FLOOD ZONE FEE \$0.00

CULVERT FEE \$

TOTAL FEE150.00

INSPECTORS OFFICE

CLERKS OFFICE

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Columbia County Building Permit Application

For Office Use Only Application # 0609-63 Date Received 9/22 By JW Permit # 25037
 Application Approved by - Zoning Official OK Date 9/27/06 Plans Examiner OK JTH Date 9-28-06
 Flood Zone N/A Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments _____

Applicant's Name DREW TURNER Phone 352.208.8821
 Address 171506 SW 15th AVE, OCALA, FL FL # 34474
 Owners Name ABRAHAM PALLAS ne 352 208-8821
 911 Address 143 SW CYPRESS WOOD GLEN, LAKE CITY, FL 32025 CONTACT IF *
 Contractors Name William Woodward Phone (352) 369-1444
 Address 1506 SW 15th AVE OCALA, FL 34474
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address LAWRENCE BENNETT, PE -
 Mortgage Lenders Name & Address RASH

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 27-55-17-09415-120 HX Estimated Cost of Construction 9300.00
 Subdivision Name MAGNOLIA PLACE Lot 20 Block _____ Unit _____ Phase _____
 Driving Directions 4415 T/R on CR 349, T/L Cherrywood WAY, corner of Cherrywood & Cedarwood Glen on right.

Type of Construction Pool Enclosure Number of Existing Dwellings on Property 1
 Total Acreage 5.010 Lot Size 487x422 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 125 Side 129 Side 330 Rear 255
 Total Building Height _____ Number of Stories _____ Heated Floor Area _____ Roof 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.

OWNERS AFFIDAVIT: 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.

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Andrew C. Turner
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 20th day of September 2006.
 Personally known ✓ or Produced Identification _____

W
 Contractor Signature
 Contractors License Number CGC 047465
 Competency Card Number _____
 NOTARY STAMP/SEAL

Bonnie Whitley Bigwood
 Notary Signature




**COASTAL CRAFTSMEN ALUMINUM, INC.
1406 S.W. 15TH AVENUE
OCALA, FL 34474
352-369-1444**

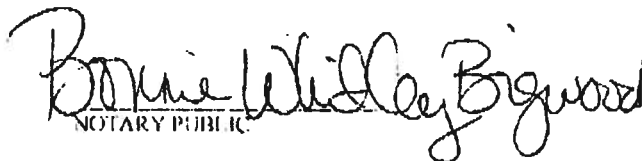
MARCH 23, 2005

TO: ALL BUILDING DEPARTMENTS

I, WILLIAM WOODARD, PRESIDENT OF COASTAL CRAFTSMEN ALUMINUM, INC. HEREBY AUTHORIZE ALL BUILDING DEPARTMENTS TO INCLUDE **ANDREW TURNER** ON THE LIST OF EMPLOYEES TO SIGN ALL PAPERS AND DOCUMENTS NECESSARY TO OBTAIN LICENSES AND PERMITS FOR JOBS CONTRACTED BY COASTAL CRAFTSMEN ALUMINUM, INC. IF YOU HAVE ANY QUESTIONS PLEASE CALL THE OFFICE AT 352-369-1444.



WILLIAM M. WOODARD
PRESIDENT
COASTAL CRAFTSMEN ALUMINUM
CGC047465



NOTARY PUBLIC



BONNIE WHITLEY BIGWOOD
MY COMMISSION # DD 272396
EXPIRES: December 4, 2007
Bonded Thru Budget Notary Services

NOTICE OF COMMENCEMENT

PERMIT NUMBER: _____

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.

DESCRIPTION OF PROPERTY

LOT: 20 BLOCK: _____ SECTION: 27 TOWNSHIP: 55 RANGE: 17

TAX PARCEL NUMBER: 27-58-17(PM) 09415-120

SUBDIVISION: Magnolia Place PLATBOOK: 7 MAP PAGE: 174-179

STREET ADDRESS: 143 SW Cypresswood Glen Lake City, FL 32025

GENERAL DESCRIPTION OF IMPROVEMENTS

TO CONSTRUCT: Screen Enclosure

OWNER INFORMATION

OWNER NAME: Abraham and Pamela J Pellas

ADDRESS: 143 SW Cypresswood Glen

CITY: Lake City STATE: FL

PHONE NUMBER: 386 758 8657

ZIP CODE: 32025

INTEREST IN PROPERTY: _____

FEE SIMPLE TITLEHOLDER NAME: N/A

FEE SIMPLE TITLEHOLDER ADDRESS: N/A

(If other than owner)

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: Sharon Seagle
Deputy Clerk

Date 09-22-2006

CONTRACTOR NAME: COASTAL CRAFTSMEN ALUMINUM, INC.

ADDRESS 1406 SW 15th Ave

CITY: Ocala

PHONE NUMBER: 352-369-1400

STATE: FLORIDA ZIP CODE: 32074

BONDING COMPANY: N/A

ADDRESS: N/A

PHONE NUMBER: _____

CITY: N/A

STATE: _____

ZIP CODE: _____

LENDER NAME: N/A

ADDRESS: N/A

PHONE NUMBER: _____

CITY: N/A

STATE: _____

Inst: 2006022728 Date: 09/22/2006 Time: 15:47

Persons within the State of Florida designated by Owner upon who 1.7 DC, P. Dewitt Cason, Columbia County B: 1096 P: 2460

Section 713.13(1)(a)7., Florida Statutes:

NAME: N/A

ADDRESS: _____

In addition to himself, Owner designates N/A

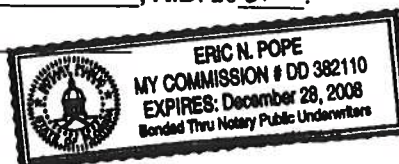
of _____ to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes. Expiration date is one (1) year from date of recording unless a different date is specified.

SIGNATURE OF OWNER: Abraham Pellas

SWORN to and subscribed before me this 28th day of July, A.D. 2006.

Notary Public: _____

My commission expires: 12/28/2006



#1

Columbia County Property Appraiser

DB Last Updated: 8/1/2006

Parcel: 27-5S-17-09415-120 HX

2006 Proposed Values

9300.00

Tax Record

Property Card

Interactive GIS Map

Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	PALLAS ABRAHAM I & PAMELA J
Site Address	CYPRESSWOOD
Mailing Address	143 SW CYPRESSWOOD GLN LAKE CITY, FL 32025
Description	LOT 20 MAGNOLIA PLACE S/D WD 1017-1253, WD 1033-2923.

Use Desc. (code)	SINGLE FAM (000100)
Neighborhood	27517.00
Tax District	3
UD Codes	MKTA02
Market Area	02
Total Land Area	5.010 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	\$39,900.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$232,861.00
XFOB Value	cnt: (1)	\$3,360.00
Total Appraised Value		\$276,121.00

Just Value	\$276,121.00
Class Value	\$0.00
Assessed Value	\$276,121.00
Exempt Value	(code: HX) \$25,000.00
Total Taxable Value	\$251,121.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
12/22/2004	1033/2923	WD	V	Q		\$50,000.00
5/28/2004	1017/1253	WD	V	Q		\$48,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	2005	(32)	3171	4150	\$232,861.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	2005	\$3,360.00	1344.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	1.000 LT - (5.010AC)	1.00/1.00/1.00/1.05	\$39,900.00	\$39,900.00

Columbia County Property Appraiser

DB Last Updated: 8/1/2006

1 of 1

Disclaimer

This information was derived from data which was compiled by the Columbia County Property Appraiser's Office solely for the government purpose of property assessment. The information shown is a **work in progress** and should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's Office. The assessed values are **NOT CERTIFIED** values and therefore are subject to change before finalized for ad-valorem assessment purposes.

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Design Check List for Pool Enclosures (page 1 of 2)

1. 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 Florida Building Code, 2001 Edition, Chapter 20; Exposure 'B' or 'C', Open Building, Importance Factor 0.77; Negative I.P.C. 0.00; 150 MPH Roof Load & 120 MPH or MPH Wall Load, 3 second gust velocity load; Design pressures are 10 PSF for roofs & 14 PSF or PSF for walls.

Notes: Wind velocity zones and exposure category is determined by local code. Minimum design load of 10 PSF for all roof loads prevents any conversion of roof loads. Design pressures and conversion multipliers are on page 1-ii.

2. Host Structure Adequacy Statement:

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

Coastal Craftsmen

Phone: 352-369-1444

Contractor Name (please print)

WJ

Date: 9/11/06

Contractor Signature

Note: If the total of beam span & upright height exceeds 55' or upright height exceeds 20', site specific engineering is required.

3. 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. Notice of consumer rights attached and initialed by consumer	<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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Beam location (show in plan & elevation view) & size (i.e. 2" x 8" x 0.072" x 0.224")	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Upright location (show in plan & elevation view) & size (i.e. 2" x 8" x 0.072" x 0.224")	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Upright & wall member allowable height / span conversions from 120 MPH wind zone, 'B' Exposure to MPH wind zone and/or 'C' Exposure for load width:

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

Span / Height
@ 120 MPH

Required Converted
Span

_____ (b or d) x _____ (b or d) x _____ (b or d) = _____

Wind Zone
Multiplier *

Exposure Multiplier *

* Appropriate multiplier from page 1-ii

5. Chair rail & girt size, length, & spacing

(i.e. 2" x 2" x 0.044" x 7'-0" @ 6'-0" O.C.)

6. Eave rail size, length, spacing and stitching of

(i.e. 1" x 2" to 2" x 2" x 7'-0" @ 6'-10" O.C.)

7. Enclosure roof diagonal bracing in plan view

8. Knee braces length, location, & size

(i.e. 2" x 3" x 0.045" for 2" x 8" x 0.072" x 0.224" SMB)

Design Check List for Pool Enclosures (page 2 of 2)

9. Wall cables or K-bracing sizes shown in wall views ☒ Yes
4. Highlight details from the Aluminum Structures Design Manual:
- A. Beam & purlin tables with size, thickness, spacing, & spans / lengths (tables 1.1 & 1.2 or 1.8 & 1.9) ☒
- 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 ☒
6. Angle to deck and / or sole plate ☒
7. Anchors go through pavers into concrete ☒
8. Cable or K- brace detail, pages 34, 36, 27, or 38 ☒
- Wall area calculations for cables:
W = wall width, H = wall height,
W1 = width @ top of mansard, W2 = width @ top of wall

wall @ eave: $\frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \text{ft.}^2 @ 100\% = \text{ft.}^2$

mansard rise*: $\frac{\text{ft.}}{R} \times \frac{1}{2}(\frac{\text{ft.}}{W1} + \frac{\text{ft.}}{W2}) = \text{ft.}^2 @ 100\% = \text{ft.}^2$

side wall: $\frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \text{ft.}^2 @ 50\% = \text{ft.}^2$

mansard rise*: $\frac{\text{ft.}}{R} \times \frac{1}{2}(\frac{\text{ft.}}{W1} + \frac{\text{ft.}}{W2}) = \text{ft.}^2 @ 50\% = \text{ft.}^2$

TOTAL = ft.^2

gable wall: $\frac{1}{2}(\frac{\text{ft.}}{R} \times \frac{\text{ft.}}{W} + \frac{\text{ft.}}{H} \times \frac{\text{ft.}}{W}) @ 100\% = \text{ft.}^2$

side wall: $\frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \text{ft.}^2 @ 50\% = \text{ft.}^2$

TOTAL = ft.^2

Total area / ($\text{ft.}^2 / \text{cable for } 3/32''$) = $\text{cable pairs} = \text{pair}$

or
Total area / ($\text{ft.}^2 / \text{cable for } 1/8''$) = $\text{cable pairs} = \text{pair}$

Side wall calculation: $\frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \text{ft.}^2 @ 100\% = \text{ft.}^2$

Side wall area / ($\text{ft.}^2 / \text{cable for } 3/32''$) = $\text{cable} = \text{ea.}$

or
Side wall area / ($\text{ft.}^2 / \text{cable for } 1/8''$) = $\text{cable} = \text{ea.}$ Yes No

9. Minimum footing and / or knee wall details ☐

Notes:

Design Check List for Pool Enclosures (page 3 of 3)

Example 3: Mansard Roof

Front wall @ eave $\frac{42.1}{W} \text{ ft} \times \frac{9.5}{H} \text{ ft} = \frac{399.95}{a} \text{ ft}^2 @ 100\% = 399.95 \text{ ft}^2$

Front mansard rise*: $\frac{5.11}{R} \text{ ft} \times \frac{1}{2} \left(\frac{25.5}{W} \text{ ft} + \frac{42.1}{W} \text{ ft} \right) = \frac{172.71}{b} \text{ ft}^2 @ 100\% = 172.71 \text{ ft}^2$

Largest side wall: $\frac{34.4}{W} \text{ ft} \times \frac{9.4}{H} \text{ ft} = \frac{323.36}{c} \text{ ft}^2 @ 50\% = 161.68 \text{ ft}^2$

Largest side mansard rise*: $\frac{5.11}{R} \text{ ft} \times \frac{1}{2} \left(\frac{21.2}{W_1} \text{ ft} + \frac{34.4}{W_2} \text{ ft} \right) = \frac{142.05}{d} \text{ ft}^2 @ 50\% = 71.02 \text{ ft}^2$

TOTAL = 805.36 ft²

Total area / (233 ft² / cable for 3/32") = _____ cable pairs

or
Total area / (445 ft² / cable for 1/8") = 3 cable pairs

Side wall cable calculation _____ ft² + _____ ft² = _____ ft² @ 100% = _____ ft²

Side wall area / (233 ft² / cable for 3/32") = _____ cable(s)

or
Side wall area / (445 ft² / cable for 1/8") = _____ cable(s)

Example 4: Dome Roof

Front dome wall @ eave _____ ft x _____ ft = _____ ft² @ 100% = _____ ft²

Front dome rise*: _____ ft x $\frac{1}{2} \left(\frac{\quad}{W} \text{ ft} + \frac{\quad}{W} \text{ ft} \right) = \frac{\quad}{b} \text{ ft}^2 @ 100\% = \quad \text{ft}^2$

Largest side wall: _____ ft x _____ ft = _____ ft² @ 50% = _____ ft²

Largest side dome rise*: _____ ft x _____ ft = _____ ft² @ 50% = _____ ft²

TOTAL = _____ ft²

Total area / (233 ft² / cable for 3/32") = _____ cable pairs

or
Total area / (445 ft² / cable for 1/8") = _____ cable pairs

Side wall cable calculation _____ ft² + _____ ft² = _____ ft² @ 100% = _____ ft²

Side wall area / (233 ft² / cable for 3/32") = _____ cable(s)

or
Side wall area / (445 ft² / cable for 1/8") = _____ cable(s)

Notes:

January 01, 2006

LAWRENCE E. BENNETT, P.E.
P.O. BOX 214368
SOUTH DAYTONA, FL 32121
386-767-4774

TO ALL BUILDING DEPARTMENTS

Re: Master File Engineering
"ALUMINUM STRUCTURES DESIGN MANUAL"
2004 edition & 2006 edition

Dear Building Official/Plans Examiner,

This is to certify that the following contractor/company is hereby authorized to use my 2004 ed "ALUMINUM STRUCTURES DESIGN MANUAL" during the year 2006, When we publish and distribute the 2006 ed of the "ALUMINUM STRUCTURES DESIGN MANUAL", they will be authorized to use that manual for the remainder of 2006.

Our authorization is based on a January to January basis regardless of the edition of the manual. This authorization also applies to contractor master file drawings, "ONE PERMIT ONLY" drawings or any "site specific" drawings that I may furnish the contractor.

William Woodard

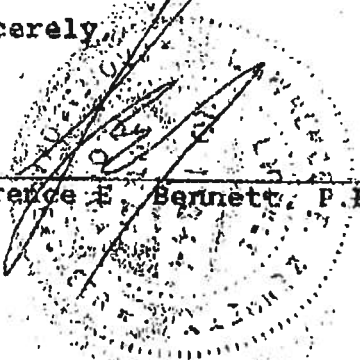
Coastal Craftsman Aluminum
8209 New York Ave
Hudson, FL 34667

They are hereby added to my 2006 MASTERFILE LIST

Should you have any questions please contact me at your convenience.

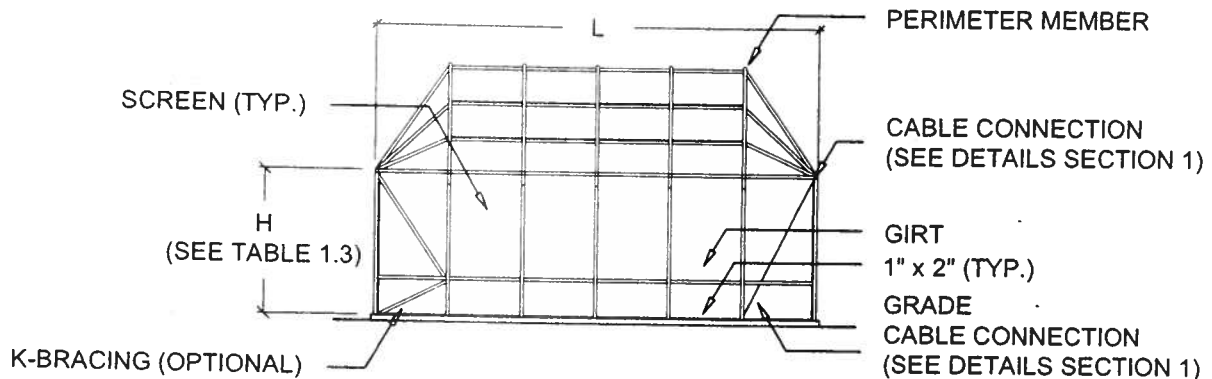
Sincerely,

Lawrence E. Bennett, P.E. #16644



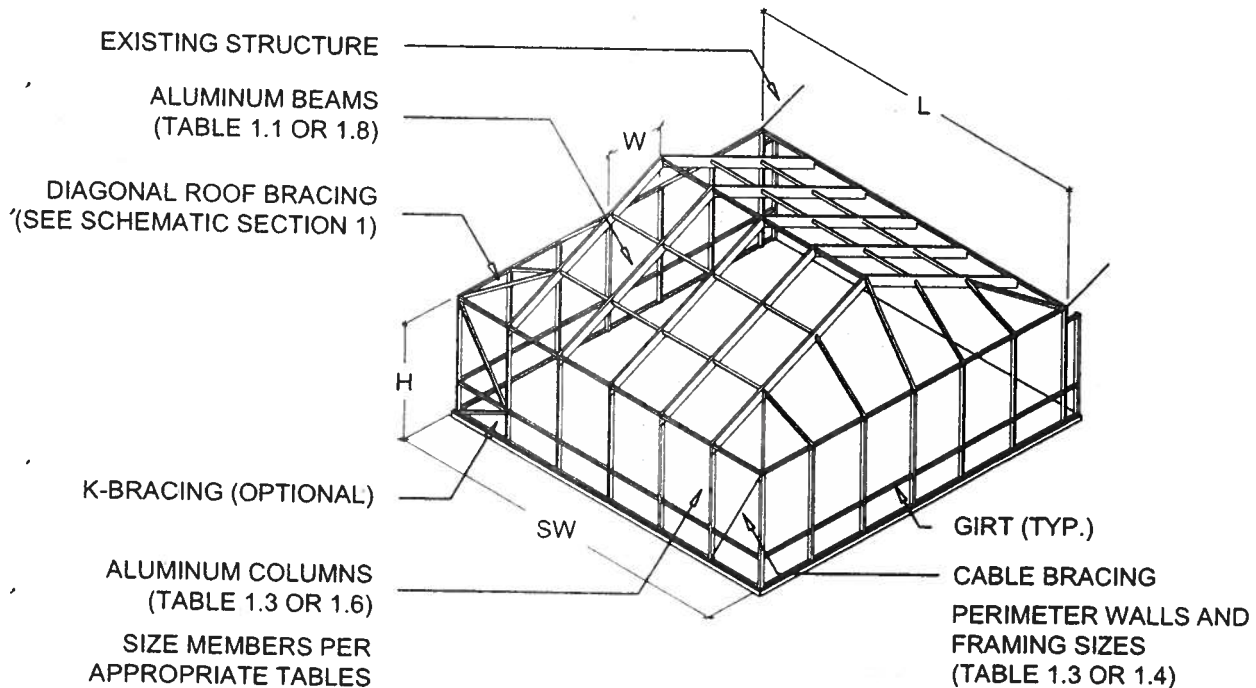
SECTION 1

SCREENED ENCLOSURES



TYPICAL MODIFIED HIP ROOF - ELEVATION

SCALE: N.T.S.



TYPICAL MODIFIED HIP ROOF - ISOMETRIC

SCALE: N.T.S.

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SCREENED ENCLOSURES

SECTION 1

2" x 9" x 0.072" x 0.224" BEAM
SHOWN

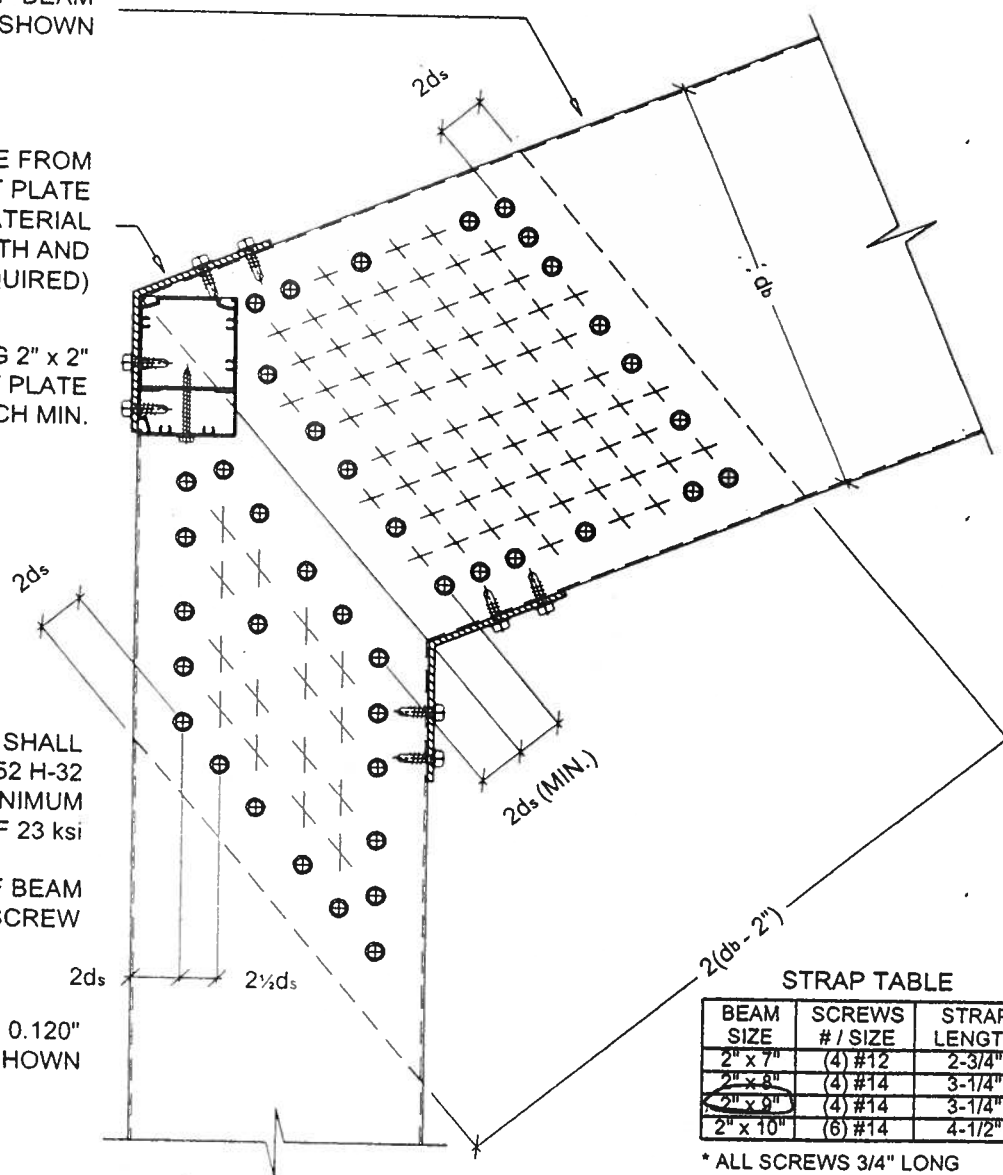
1-3/4" STRAP MADE FROM
REQUIRED GUSSET PLATE
MATERIAL
(SEE TABLE FOR LENGTH AND
OF SCREWS REQUIRED)

WHEN FASTENING 2" x 2"
THROUGH GUSSET PLATE
USE #10 x 2" (3) EACH MIN.

ALL GUSSET PLATES SHALL
BE A MINIMUM OF 5052 H-32
ALLOY OR HAVE A MINIMUM
YIELD STRENGTH OF 23 ksi

db = DEPTH OF BEAM
ds = DIAMETER OF SCREW

2" x 6" x 0.050" x 0.120"
UPRIGHT SHOWN



STRAP TABLE

BEAM SIZE	SCREWS # / SIZE	STRAP LENGTH
2" x 7"	(4) #12	2-3/4"
2" x 8"	(4) #14	3-1/4"
2" x 9"	(4) #14	3-1/4"
2" x 10"	(6) #14	4-1/2"

* ALL SCREWS 3/4" LONG

NOTES:

1. FILL OUTER SCREW POSITIONS FIRST UNTIL REQUIRED NUMBER OF SCREWS IS ACHIEVED.
2. SEE TABLE 1.6 FOR GUSSET SIZE, SCREW SIZES, AND NUMBER.
3. GUSSET PLATES ARE REQUIRED ON ALL BEAMS 2" x 7" AND LARGER.
4. SCREW PATTERN LAYOUT W/ SPACING BETWEEN SCREWS GREATER THAN MINIMUM IS ALLOWED SO THAT EQUAL SPACING IS ACHIEVED.

GUSSET PLATE SCREW PATTERN FOR BEAM TO GUSSET PLATE CONNECTION

SCALE: 3" = 1'-0"

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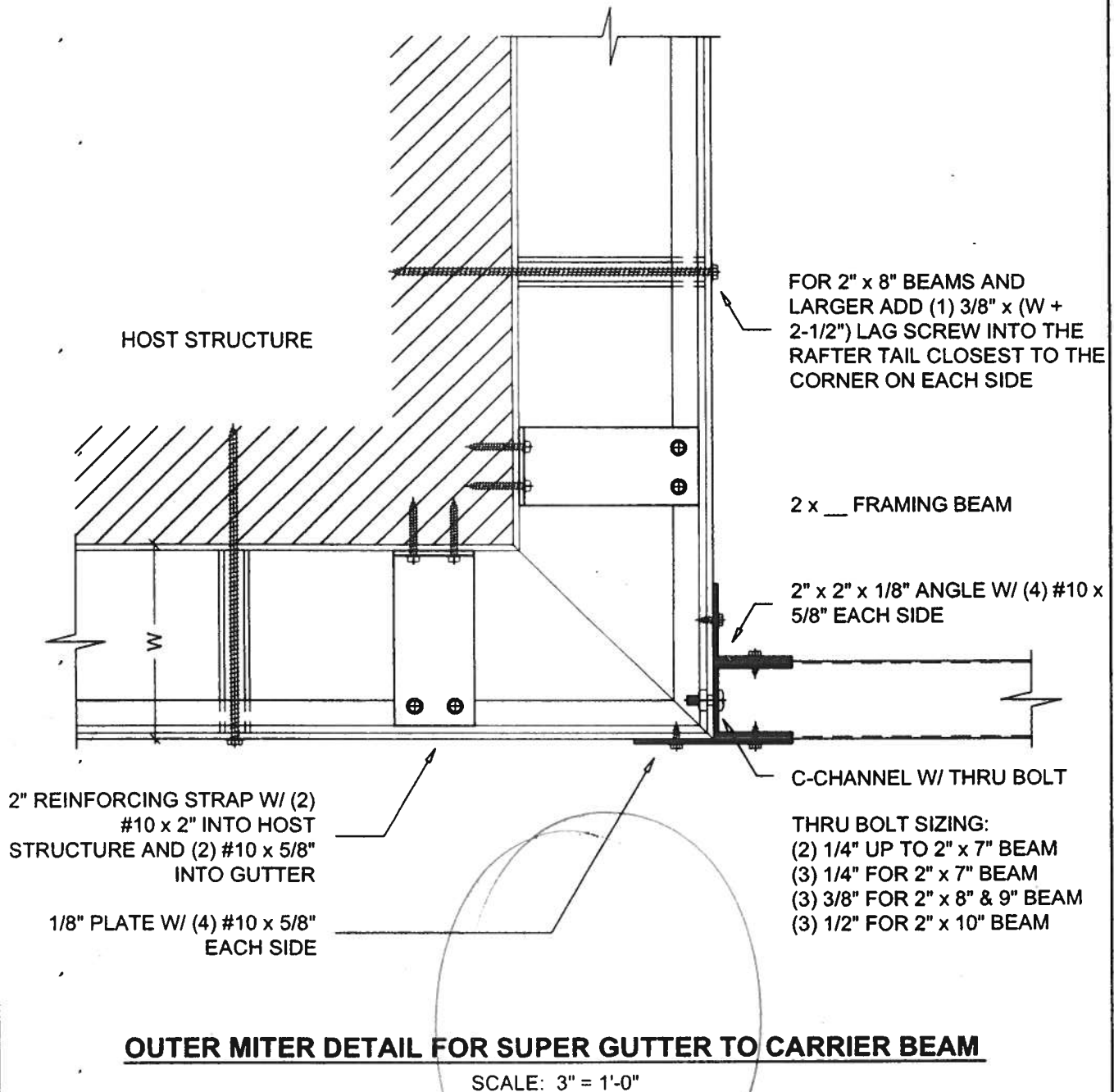
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SECTION 1

SCREENED ENCLOSURES



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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)

SUPER OR
EXTRUDED
GUTTER

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

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 FASC
TO HOST STRUCTURE WALL
24" WITHOUT SITE SPECIFIC
ENGINEERING

**ALTERNATE SELF MATING BEAM CONNECTION
TO SUPER OR EXTRUDED GUTTER**

SCALE: 3" = 1'-0"

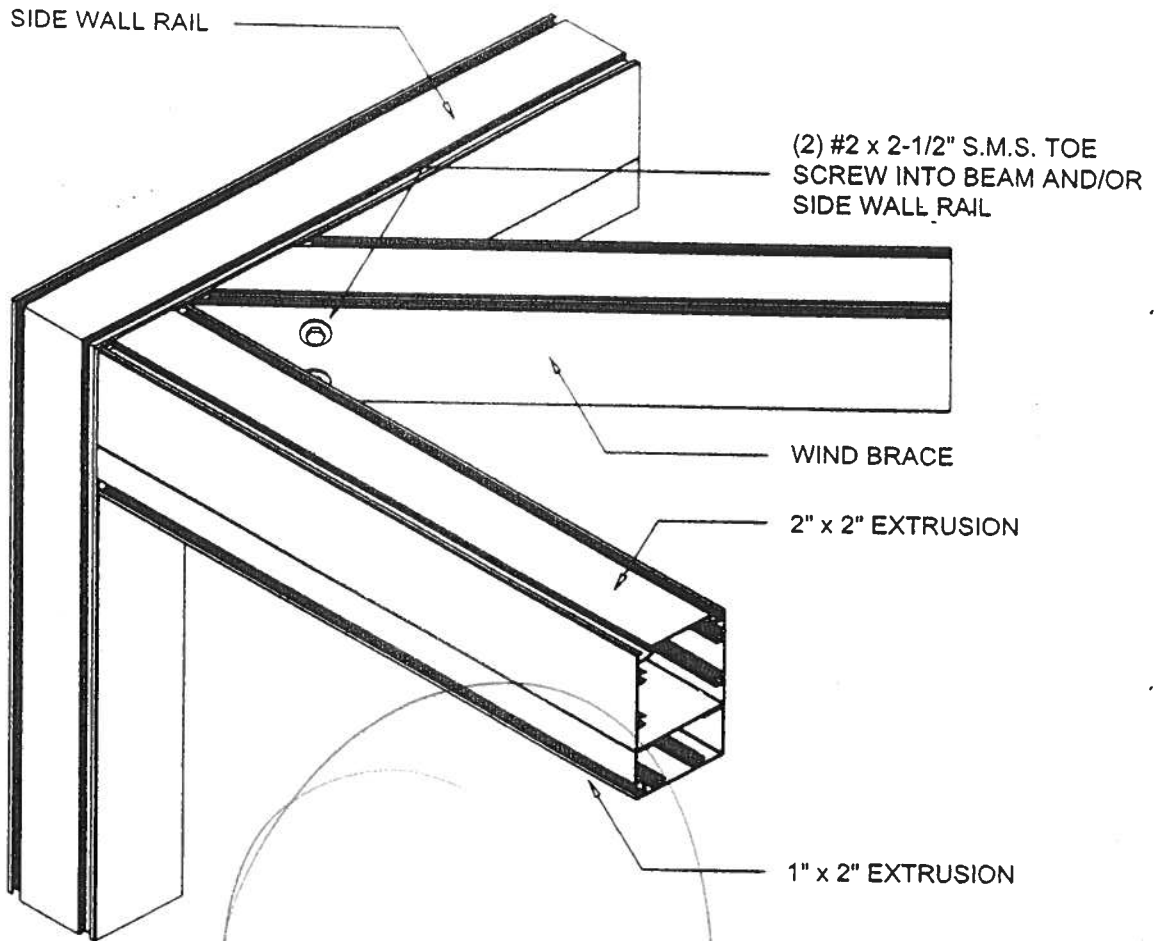
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**WIND BRACE CONNECTION DETAIL**

SCALE: 3" = 1'-0"

NOTES:

1. Wind bracing shall be provided at each side wall panel when enclosure projects more than (4) panels from host structure.

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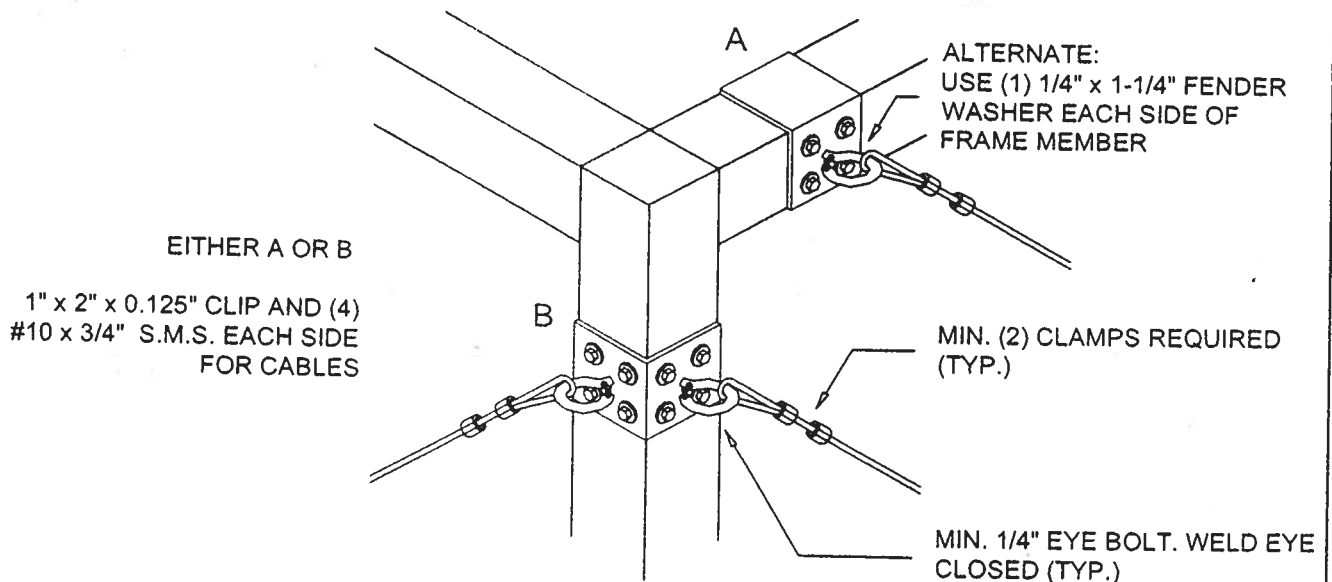
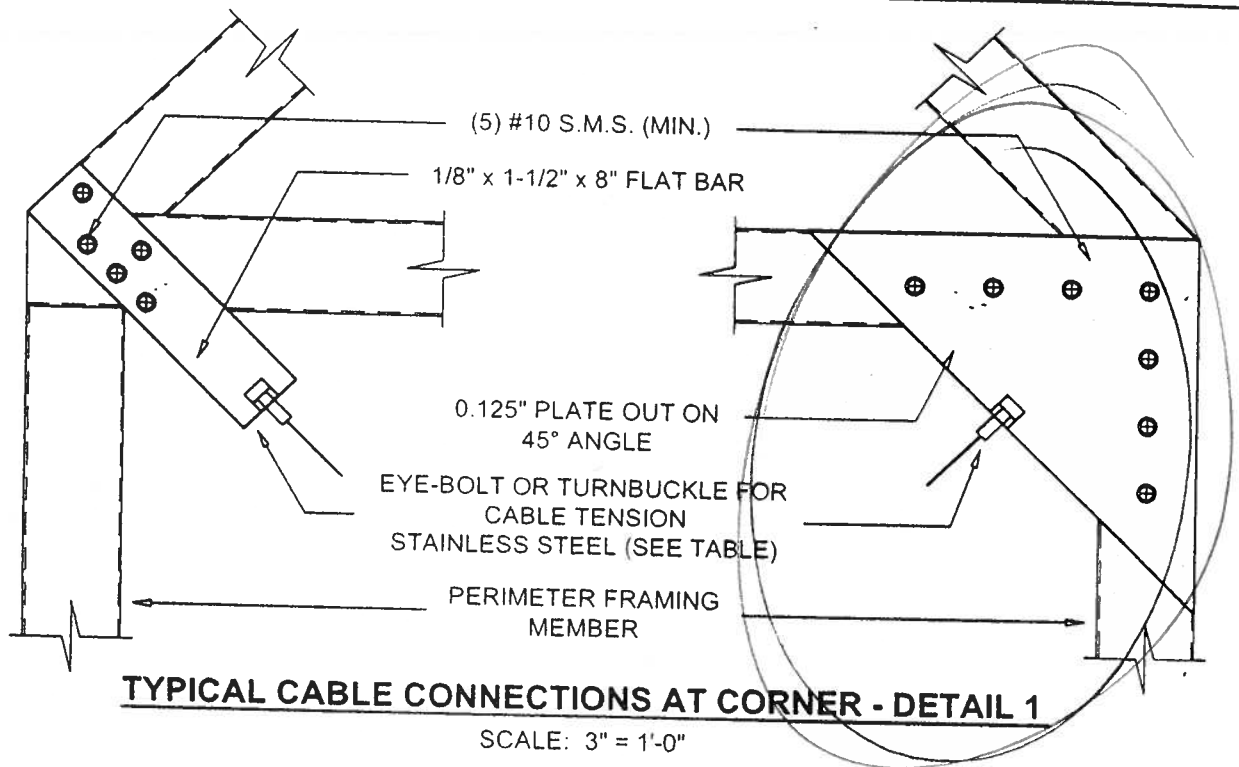
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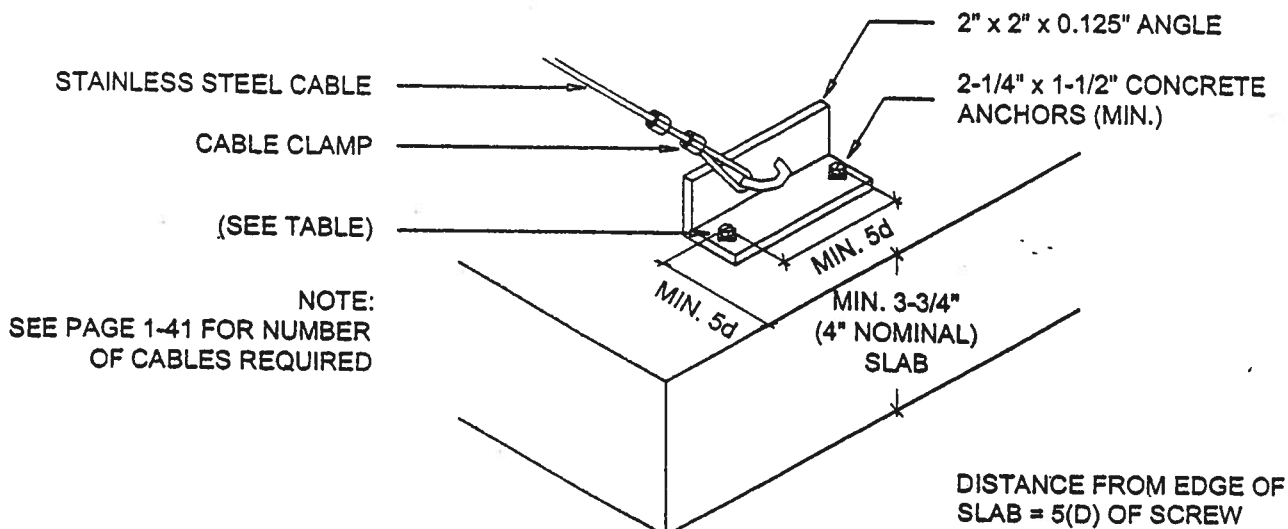
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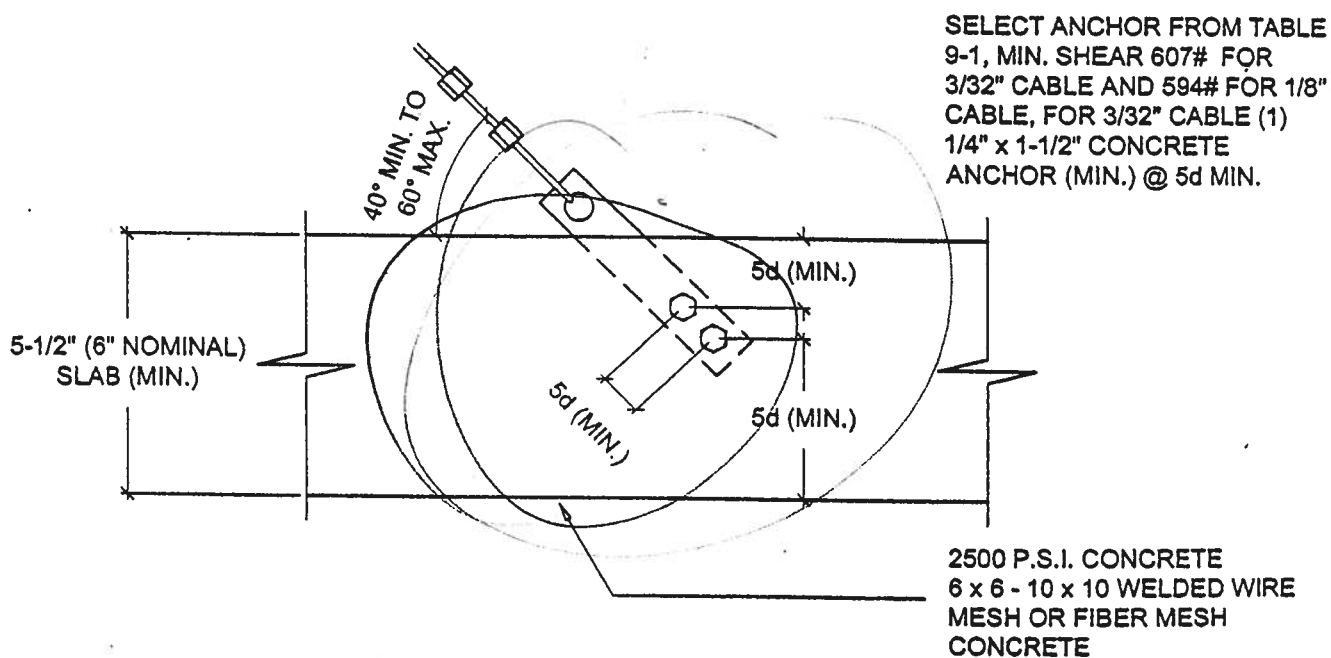
SCREENED ENCLOSURES

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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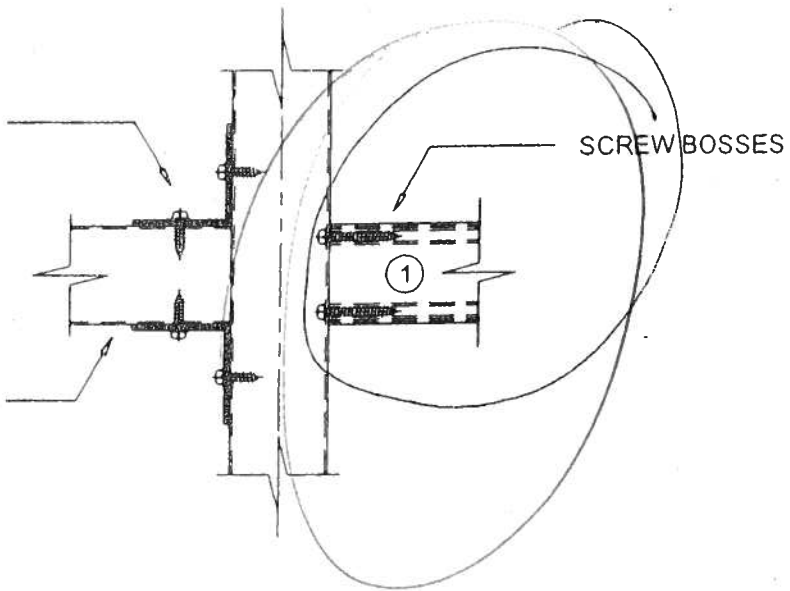
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CHAIR RAIL ATTACHED TO
POST W/ INTERNAL OR
EXTERNAL 'L' CLIP OR 'U'
CHANNEL W/ MIN.
(4) #10 S.M.S.

GIRT OR CHAIR RAIL
2" x 2" x 0.044" HOLLOW MIN.



GIRT TO POST DETAIL

SCALE: 3" = 1'-0"

- ① FOR WALLS LESS THAN 6'-8" FROM TOP OF PLATE TO CENTER OF BEAM CONNECTION OR BOTTOM OF TOP RAIL THE BEAM AND GIRT ARE DECORATIVE
SCREW HEADS MAY BE REMOVED AND INSTALLED IN PILOT HOLES

IF GIRT IS STRUCTURAL AND SCREW HEADS ARE REMOVED THEN THE OUTSIDE OF THE CONNECTION MUST BE STRAPPED FROM GIRT TO BEAM WITH 0.050" x 1-3/4" x 4" STRAP AND (4) #10 x 3/4" S.M.S. SCREWS TO POST AND GIRT

IF GIRT IS ON BOTH SIDES OF THE POST THEN STRAP SHALL BE 6" LONG AND CENTERED ON THE POST AND HAVE A TOTAL (12) #10 x 3/4" S.M.S.

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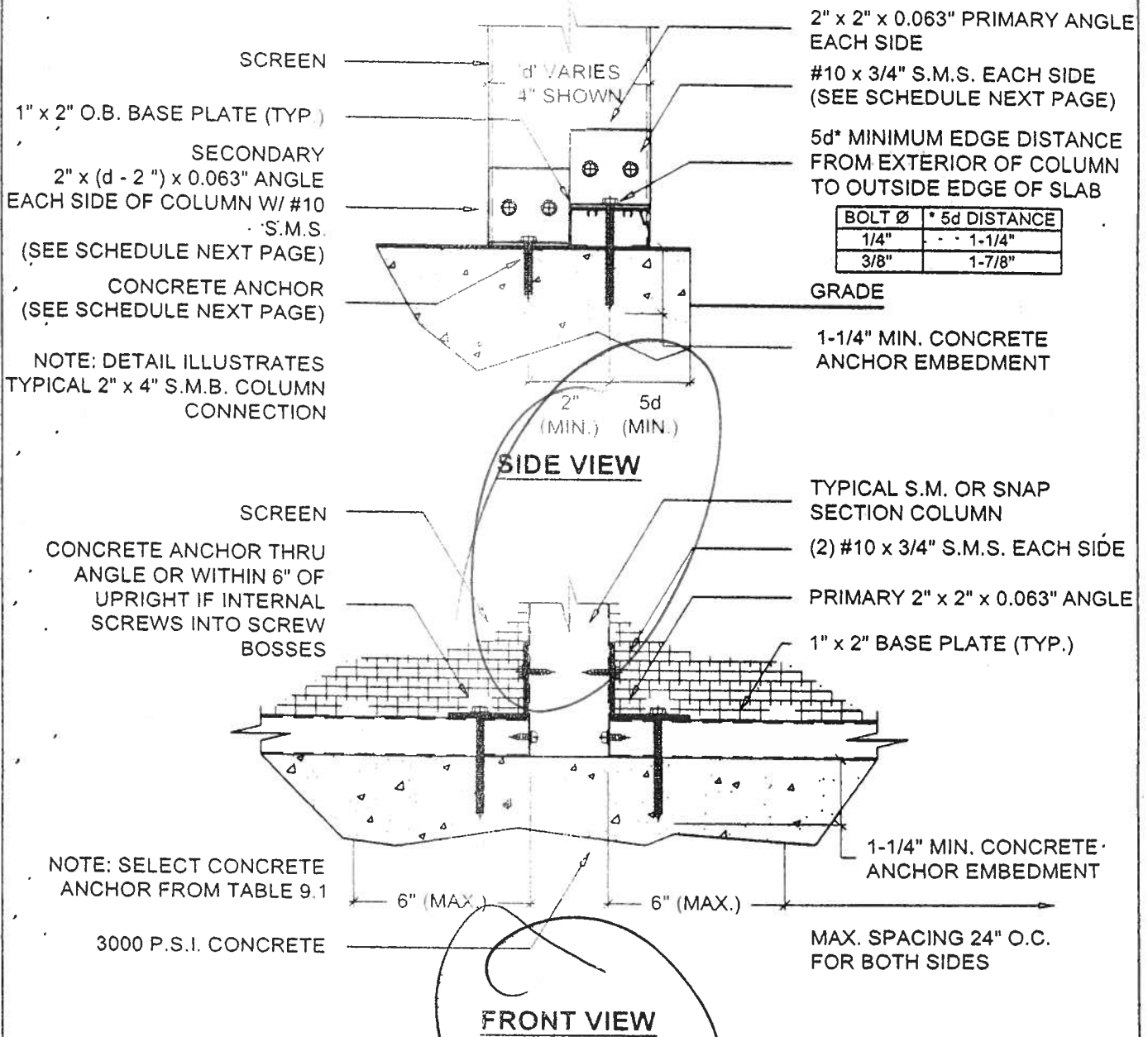
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SECTION 1

SCREENED ENCLOSURES



2" x 4" OR LARGER SELF MATING OR SNAP SECTION POST TO DECK DETAILS

SCALE: 3" = 1'-0"

NOTE: FOR SIDE WALLS OF 2" x 4" OR SMALLER ONLY ONE ANGLE IS REQUIRED.

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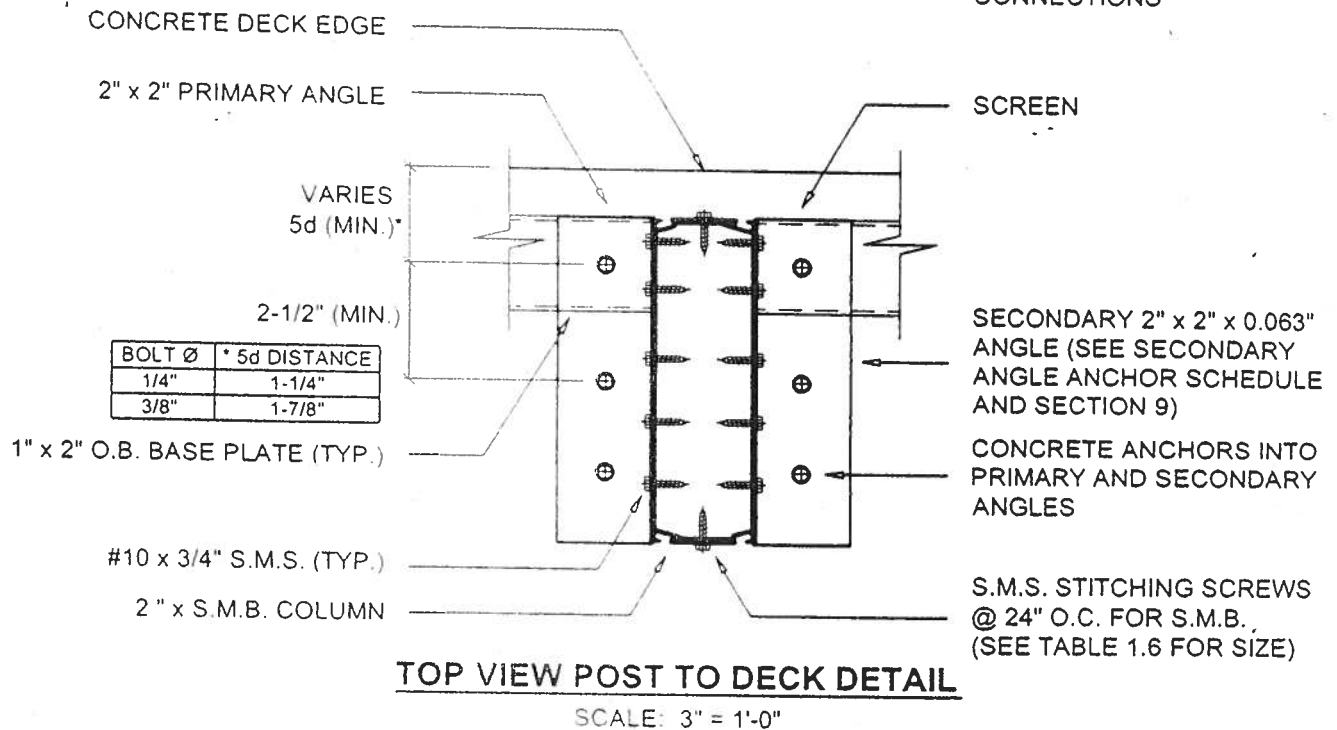
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SCREENED ENCLOSURES

SECTION 1

DETAIL ILLUSTRATES TYPICAL
2" x 4" S.M.B. THRU 2" x 9" SUB
CONNECTIONS



Secondary Anchor Schedule

Column Size S.M.B. or S.B.	Total Concrete Anchors	Total #10 x 3/4" S.M.S.
2 x 4	(4) 1/4"	6
2 x 5	(4) 1/4"	8
2 x 6	(4) 1/4"	10
2 x 7	(4) 1/4"	12
2 x 8	(6) 1/4"	14
2 x 9	(6) 1/4"	16
2 x 10	(10) 1/4"	18

Notes:

1. See Section 9 for additional anchor information.
2. Secondary anchor schedule applies to side walls with uprights that are 2" x 5" and larger.

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Table 1.4 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 velocity of 120 MPH or an applied load of 14 # / sq. ft.*

A. Sections As Horizontals Fastened To Posts With Clips

Hollow Sections	Tributary Load Width 'W'						
	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-8"
	Allowable Heights 'H' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	6'-10" d	6'-6" b	6'-1" b	5'-9" b	5'-6" b	5'-3" b	5'-0" b
2" x 2" x 0.055"	7'-3" d	6'-11" d	6'-8" b	6'-4" b	6'-0" b	5'-9" b	5'-6" b
3" x 2" x 0.045"	7'-9" d	7'-5" d	7'-1" d	6'-10" d	6'-7" b	6'-4" b	5'-11" b
2" x 3" x 0.045"	9'-4" b	8'-9" b	8'-3" b	7'-10" b	7'-5" b	7'-2" b	6'-9" b
2" x 4" x 0.050"	10'-3" b	9'-7" b	9'-0" b	8'-7" b	8'-2" b	7'-10" b	7'-5" b

Snap Sections	Allowable Heights 'H' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	7'-6" d	7'-2" d	6'-11" d	6'-8" b	6'-4" b	6'-1" b	5'-9" b

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

Hollow Sections	Tributary Load Width 'W'						
	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-8"
	Allowable Heights 'H' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	7'-9" b	7'-3" b	6'-10" b	6'-6" b	6'-2" b	5'-11" b	5'-7" b
2" x 2" x 0.055"	8'-5" b	7'-11" b	7'-5" b	7'-1" b	6'-9" b	6'-5" b	6'-1" b
3" x 2" x 0.045"	9'-3" b	8'-8" b	8'-2" b	7'-9" b	7'-5" b	7'-1" b	6'-8" b
2" x 3" x 0.045"	10'-5" b	9'-9" b	9'-2" b	8'-9" b	8'-4" b	7'-11" b	7'-7" b
2" x 4" x 0.050"	11'-6" b	10'-9" b	10'-1" b	9'-7" b	9'-2" b	8'-9" b	8'-4" b
	Snap Sections						
	Allowable Heights 'H' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	9'-2" b	8'-7" b	8'-1" b	7'-8" b	7'-4" b	7'-0" b	6'-8" b

* For allowable heights at wind velocities other than 120 MPH, see conversion table 1A on the specifications for tables page at the beginning of this section and example below.

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 girt lengths.
3. Site specific engineering required for pool enclosures over 20' in mean roof height.
4. Span 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 can be considered as 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.
6. Girt spacing shall not exceed 6'-8".
7. Spans may be interpolated.

IF HEIGHTS FOR 'C' EXPOSURE CATEGORY AND/OR WINDZONES OTHER THAN 120 MPH ARE REQUIRED, SEE EXAMPLE ON SPECIFICATION PAGE FOR TABLES AT THE BEGINNING OF THIS SECTION.

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SECTION 1

SCREENED ENCLOSURES

Table 1.5
Allowable Spans for Miscellaneous Framing Beams as Supporting Screen Roof Frame Members
for Areas with Wind Loads up to 150 M.P.H. and Latitudes Below 30°-30'-00" North (Jacksonville, FL)
Aluminum Alloy 6063 T-6

Single Self-Mating Beams	Tributary Load Width									
	10'-0"	14'-0"	18'-0"	26'-0"	30'-0"	34'-0"	38'-0"	42'-0"	46'-0"	54'-0"
2" x 4" x 0.044" x 0.100"	10'-11" b	9'-3" b	8'-2" b	7'-5" b	6'-9" b	6'-4" b	5'-11" b	5'-4" b	5'-1" b	4'-9" b
2" x 5" x 0.050" x 0.100"	13'-7" b	11'-5" b	10'-1" b	9'-2" b	8'-5" b	7'-10" b	7'-4" b	6'-7" b	6'-4" b	5'-10" b
2" x 6" x 0.050" x 0.120"	15'-8" b	13'-3" b	11'-8" b	10'-7" b	9'-9" b	9'-1" b	8'-6" b	7'-8" b	7'-4" b	6'-9" b
2" x 7" x 0.055" x 0.120"	17'-8" b	14'-11" b	13'-2" b	11'-11" b	10'-11" b	10'-2" b	9'-7" b	8'-7" b	8'-3" b	7'-7" b
2" x 7" x 0.055" w/ insert	23'-6" b	19'-10" b	17'-6" b	15'-10" b	14'-7" b	13'-7" b	12'-9" b	12'-0" b	11'-5" b	10'-6" b
2" x 8" x 0.072" x 0.224"	22'-10" b	19'-3" b	16'-11" b	15'-4" b	14'-2" b	13'-2" b	12'-4" b	11'-8" b	11'-1" b	10'-2" b
2" x 9" x 0.072" x 0.224"	24'-9" b	20'-11" b	18'-5" b	16'-8" b	15'-4" b	14'-3" b	13'-5" b	12'-8" b	12'-1" b	11'-1" b
2" x 9" x 0.082" x 0.306"	27'-1" b	22'-11" b	20'-3" b	18'-3" b	16'-10" b	15'-8" b	14'-9" b	13'-11" b	13'-3" b	12'-2" b
2" x 10" x 0.092" x 0.369"	32'-7" b	27'-7" b	24'-4" b	21'-11" b	20'-3" b	18'-10" b	17'-8" b	16'-9" b	15'-2" b	14'-7" b
Tributary Load Width										
Double Self-Mating Beams	Tributary Load Width									
	10'-0"	14'-0"	18'-0"	22'-0"	26'-0"	30'-0"	34'-0"	38'-0"	42'-0"	54'-0"
2" x 8" x 0.072" x 0.224"	32'-3" b	27'-3" b	24'-0" b	21'-9" b	19'-11" b	18'-7" b	17'-6" b	16'-6" b	15'-9" b	14'-5" b
2" x 9" x 0.072" x 0.224"	34'-11" b	29'-6" b	26'-1" b	23'-7" b	21'-8" b	20'-2" b	18'-11" b	17'-11" b	17'-1" b	15'-0" b
2" x 9" x 0.082" x 0.306"	38'-4" b	32'-5" b	28'-7" b	25'-10" b	23'-9" b	22'-2" b	20'-10" b	19'-8" b	18'-9" b	17'-2" b
2" x 10" x 0.092" x 0.369"	46'-1" b	38'-11" b	34'-4" b	31'-1" b	28'-7" b	26'-7" b	25'-0" b	23'-8" b	22'-6" b	20'-7" b
Tributary Load Width										
Double Self-Mating Beams with 2 x 4 SMB added to Top or Bottom (Perpendicular to Webs)	Tributary Load Width									
	10'-0"	14'-0"	18'-0"	22'-0"	26'-0"	30'-0"	34'-0"	38'-0"	42'-0"	54'-0"
2" x 8" x 0.072" x 0.224"	34'-11" b	29'-6" b	26'-0" b	23'-6" b	21'-8" b	20'-2" b	18'-11" b	17'-11" b	17'-0" b	15'-7" b
2" x 9" x 0.072" x 0.224"	37'-9" b	31'-11" b	28'-2" b	25'-6" b	23'-5" b	21'-10" b	20'-6" b	19'-5" b	18'-5" b	16'-11" b
2" x 9" x 0.082" x 0.306"	40'-6" b	34'-3" b	30'-3" b	27'-4" b	25'-2" b	23'-5" b	21'-11" b	20'-9" b	19'-9" b	18'-2" b
2" x 10" x 0.092" x 0.369"	47'-11" b	40'-6" b	35'-9" b	32'-4" b	29'-9" b	27'-8" b	25'-11" b	24'-7" b	23'-5" b	21'-5" b

Notes:

1. It is recommended that the engineer be consulted on any carrier beam that spans more than 55'.
2. Spans are based on 150 M.P.H. wind load plus dead load for framing.
3. Span is measured from center of 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. Spans may be interpolated.

Example:

The Maximum 'L' for a 2" x 4" x 0.044" x 0.100" Single Self-Mating Beam with Tributary Load Width = 22'-0" is 7'-5"

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SCREENED ENCLOSURES

SECTION 1

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

Beam Size	Upright Size	Minimum Purlin, Girt & Knee Brace Size**	Deck Anchors	Notes	Minimum Number of Screws*			Beam Stitching Screw @ 24" O.C.
					#8 x 1/2"	#10 x 1/2"	#12 x 1/2"	
2" x 3"	2" x 3"	2" x 2" x 0.044"	2	Full Lap	6	4	4	-
2" x 4"	2" x 3"	2" x 2" x 0.044"	2	Full Lap	8	6	4	#8
2" x 4"	2" x 4"	2" x 2" x 0.044"	2	Full Lap	8	6	4	#10
2" x 5"	2" x 3"	2" x 2" x 0.044"	2	Full Lap	8	6	4	#8
2" x 6"	2" x 3"	2" x 2" x 0.044"	4	Full Lap	10	8	6	#10
2" x 6"	2" x 4"	2" x 2" x 0.044"	4	Partial Lap	10	8	6	#10
2" x 7"	2" x 4"	2" x 2" x 0.044"	4	Partial Lap	14	12	10	#12
2" x 8"	2" x 5"	2" x 3" x 0.044"	6	Partial Lap	16	14	12	#14
2" x 9"	2" x 6"	2" x 3" x 0.045"	6	Partial Lap	18	16	14	#14
2" x 9"	2" x 7"	2" x 4" x 0.050"	8	Partial Lap	20	18	16	#14
2" x 10"	2" x 8"	2" x 4" x 0.050"	10	Partial 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"	1/16" = 0.063"
#10	3/8"	3/4"	2" x 8" x 0.072" x 0.224"	1/8" = 0.125"
#12	1/2"	1"	2" x 9" x 0.072" x 0.224"	1/8" = 0.125"
#14 or 1/4"	3/4"	1-1/2"	2" x 9" x 0.082" x 0.306"	1/8" = 0.125"
5/16"	7/8"	1-3/4"	2" x 10" x 0.092" x 0.369"	1/4" = 0.25"
3/8"	1"	2"		

* Refers to each side of the connection of the beam and upright and each side of splice connection.

** 0.082" wall thickness, 0.310" flange thickness

Note:

1. Connection of 2" x 6" to 2" x 3" shall use a full lap cut or 1/16" gusset plate.
2. All gusset plates shall be a minimum of 5052 H-32 Alloy or have a minimum yield strength of 23 ksi.
3. 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.
4. The number of screws is based on the maximum allowable moment of the beam.
5. 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.
6. Hollow splice connections can be made provided the connection is approved by the engineer.
7. 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.
8. All beam to upright connections for 2" x 7" beams or larger shall have an internal or external gusset plates. Gusset plates are required for mansard or gable splice connections.
9. For gusset plate connections 2" x 9" beams or larger use 3/4" long screws.
10. 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.
11. Connect beam to upright w/ H-bar, gusset plate, or angle clips for each splice with 1/2 the screws on each side of the cut.
12. For girt size use upright size (i.e. 2" x 6"). Read the 2" x 6" beam row for min. girt of 2" x 2" x 0.044".

Table 1.7 Minimum Size Screen Enclosure Knee Braces and Anchoring Required
Aluminum 6063 T-6

Brace Length	Extrusion	Anchoring System
0' - 2'-0"	2" x 2" x 0.044"	2" H-Channel With (3) #10 x 1/2" EACH SIDE
To 3'-0"	2" x 3" x 0.045"	2" H-Channel With (3) #10 x 1/2" EACH SIDE
To 4'-6"	2" x 4" x 0.044" x 0.12"	2" H-Channel With (4) 3/4" long screws (size to be determined by beam size, see table 9.6)

(See Table 1.6 For Number And Size Of Screws)

Note:

1. For required knee braces greater than 4'-6" contact engineer for specifications and details.
2. Cantilever beam detail shown on page 1-32 shall be used for host structure attachment when knee brace length exceeds 4'-6".

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SECTION 1

SCREENED ENCLOSURES

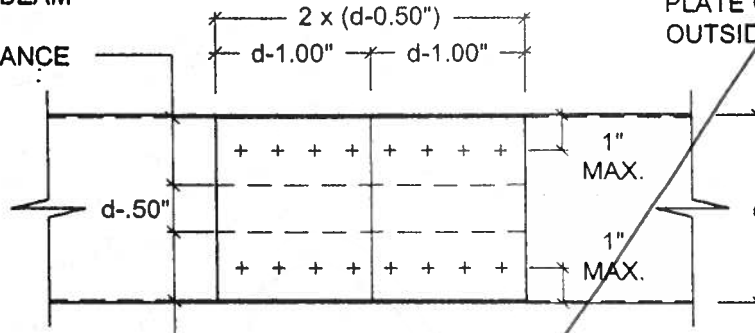
BEAM SPLICE SHALL BE MIN.
BEAM HEIGHT MINUS 1/2" AND
2 x (d - .50") LENGTH

d = HEIGHT OF BEAM

MIN. EDGE DISTANCE

SPLICE LOCATED 1/4 TO 1/3
BEAM SPAN STAGGERED
EACH SIDE OF BEAM

PLATE CAN BE INSIDE OR
OUTSIDE BEAM OR LAP CUT



MIN. EDGE DISTANCE

FASTENER SIZE, NUMBER AND
SPACING (SEE TABLE 1.6)

DENOTES SCREW PATTERN
NOT NUMBER OF SCREWS

Minimum Distance and Spacing of Screws					
Screw Size	ds (in.)	Edge To Center 2ds (in.)	Center To Center 2-1/2ds (in.)	Gusset Plate Thickness	
				Beam Size	Thickness
#8	0.16	3/8	7/16	2" x 7" x 0.055" x 0.120" **	1/16" = 0.063"
#10	0.19	3/8	1/2	2" x 8" x 0.072" x 0.224"	1/8" = 0.125"
#12	0.21	7/16	9/16	2" x 9" x 0.072" x 0.224"	1/8" = 0.125"
#14 or 1/4"	0.25	1/2	5/8	2" x 9" x 0.082" x 0.306"	1/8" = 0.125"
5/16"	0.313	5/8	3/4	2" x 10" x 0.092" x 0.369"	1/4" = 0.25"

* Refers to each side of splice.

** Use for 2" x 4" and 2" x 6" also

Note:

1. All gusset plates shall be a minimum 5052 H-32 Alloy or have a minimum yield of 23 ksi.

TYPICAL BEAM SPLICE DETAIL

SCALE: 3" = 1'-0"

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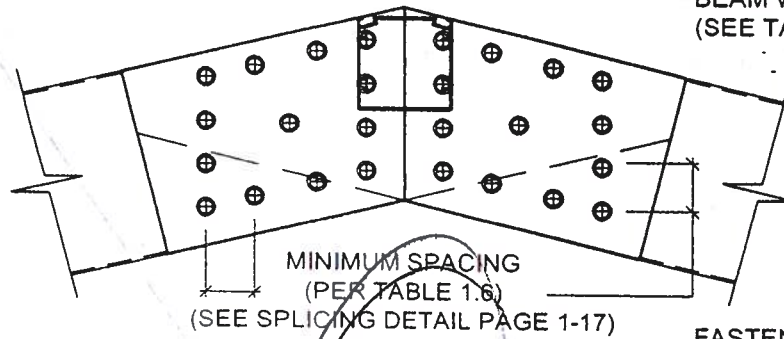
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2" x 2" PURLINS ATTACHED
TO BEAM W/ MIN.
(3) #10 x 1-1/2" S.M.S.

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)

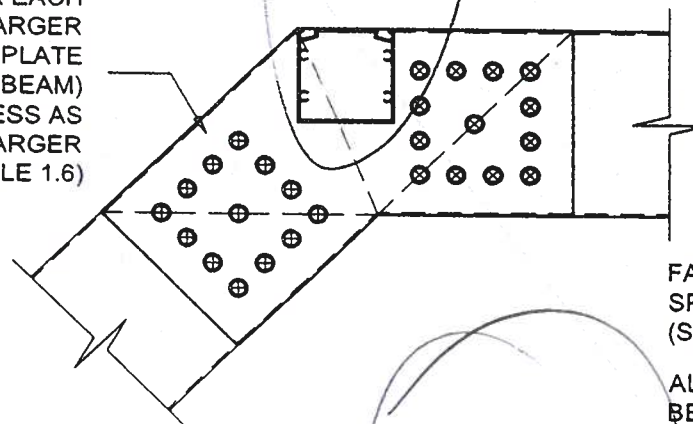


FASTENER SIZE, NUMBER AND
SPACING PER PAGE 1-19
(SEE TABLE 1.6)

TYPICAL SIDE PLATE CONNECTION DETAIL

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



FASTENER SIZE, NUMBER AND
SPACING PER PAGE 1-19
(SEE TABLE 1.6)

ALL GUSSET PLATES SHALL
BE A MINIMUM OF 5052 H-32
ALLOY OR HAVE A MINIMUM
YIELD STRENGTH OF 23 ksi

TYPICAL SIDE PLATE CONNECTION DETAIL - MANSARD ROOF

SCALE: 3" = 1'-0"

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CABLE BRACING**General Notes and Specifications:**

- 1) The following shall apply to the installation of cables as additional bracing to DIAGONAL bracing for pool enclosures:

a) FRONT WALL CABLES - 7 x 7 OR 7 x 19 STAINLESS STEEL

CABLE DIAMETER	TOTAL ALLOWABLE WALL AREA *
3/32"	233 Sq. Ft. / PAIR OF CABLES
1/8"	445 Sq. Ft. / PAIR OF CABLES

* TOTAL WALL AREA = 100% OF FRONT WALL + 50% OF ONE SIDE WALL

EXAMPLE: FRONT WALL AREA @ 100% (8' x 32') = 256 Sq. Ft.
 SIDE WALL AREA @ 50% (8' x 20') = 80 Sq. Ft.
 TOTAL WALL AREA = 336 Sq. Ft.

233 Sq. Ft. x 2 sets = 466 Sq. Ft. > 336 Sq. Ft.; thus two sets of 3/32" cables is required.

b) SIDE WALL CABLES - 7 x 7 OR 7 x 19 STAINLESS STEEL

CABLE DIAMETER	SIDE WALL CABLE **
3/32"	ONE PER 233 Sq. Ft. OF WALL
1/8"	ONE PER 445 Sq. Ft. OF WALL

** SIDE WALL CABLES ARE NOT REQUIRED FOR SIDE WALLS LESS THAN 233 Sq. Ft.

- c) To calculate the required pair of cables for free standing pool enclosures use 100 % of each wall area & 50% of the area of one adjacent wall.

NOTES:

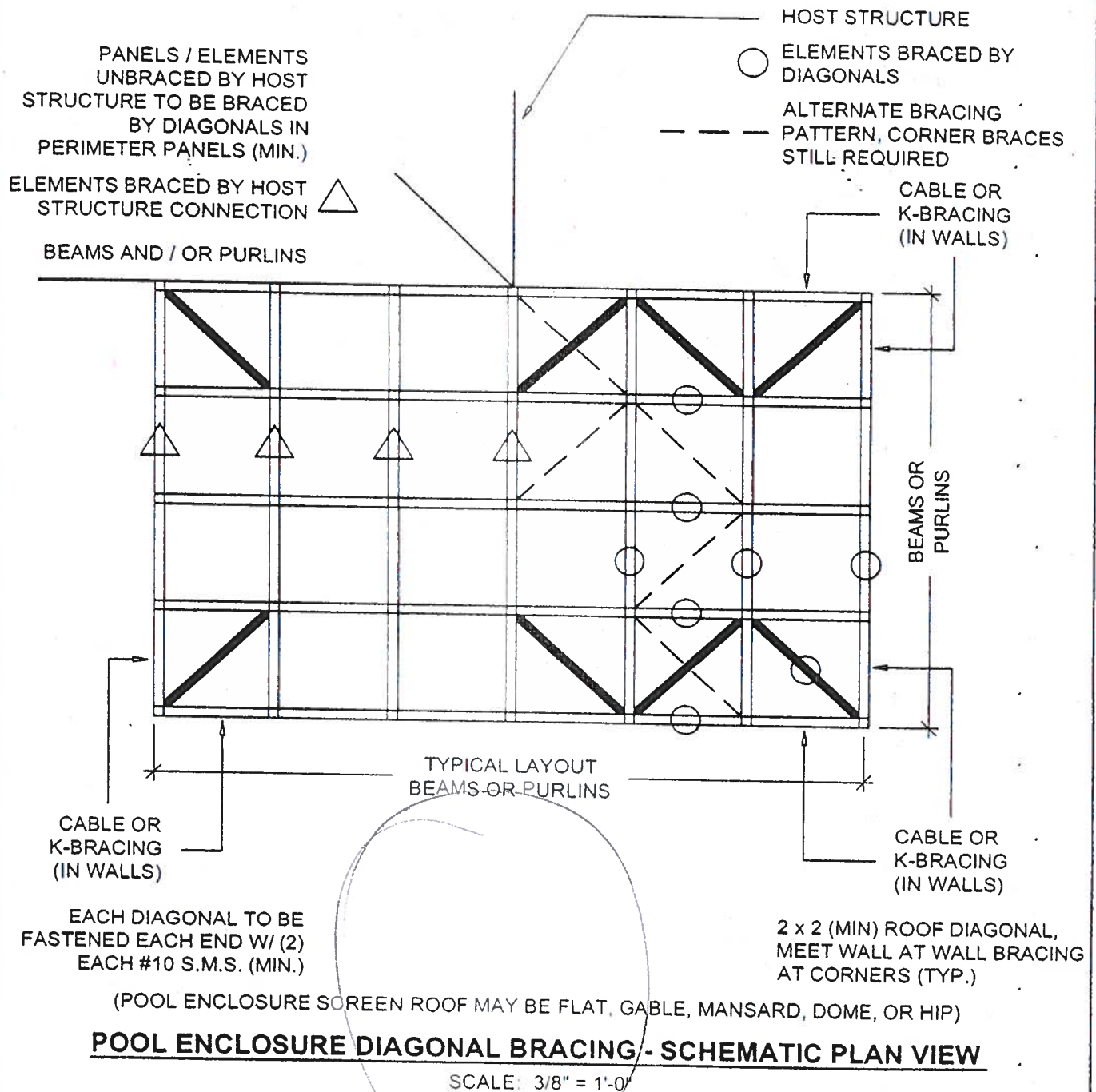
1. Where wall height is such that a girt is required between the top or eave rail and the chair rail, (i.e. a mid-rise girt), then the front wall shall have two cable pairs and they shall be attached to the top rail and the mid-rise rail. If more than one additional girt is required between the top or eave rail and the chair rail, then there shall be an additional front wall cable pair at that girt also.
2. Side walls do not require cables until the side wall area is greater than 233 Sq. Ft.. The side wall cable may be attached at the mid-rise girt or the top rail.
3. Standard rounding off rules apply. ie: if the number of cables calculated is less than 2.5 pairs use two cables; if the number of cables calculated is 2.5 pairs or greater use 3 pairs of cables.

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SCREENED ENCLOSURES

SECTION 1



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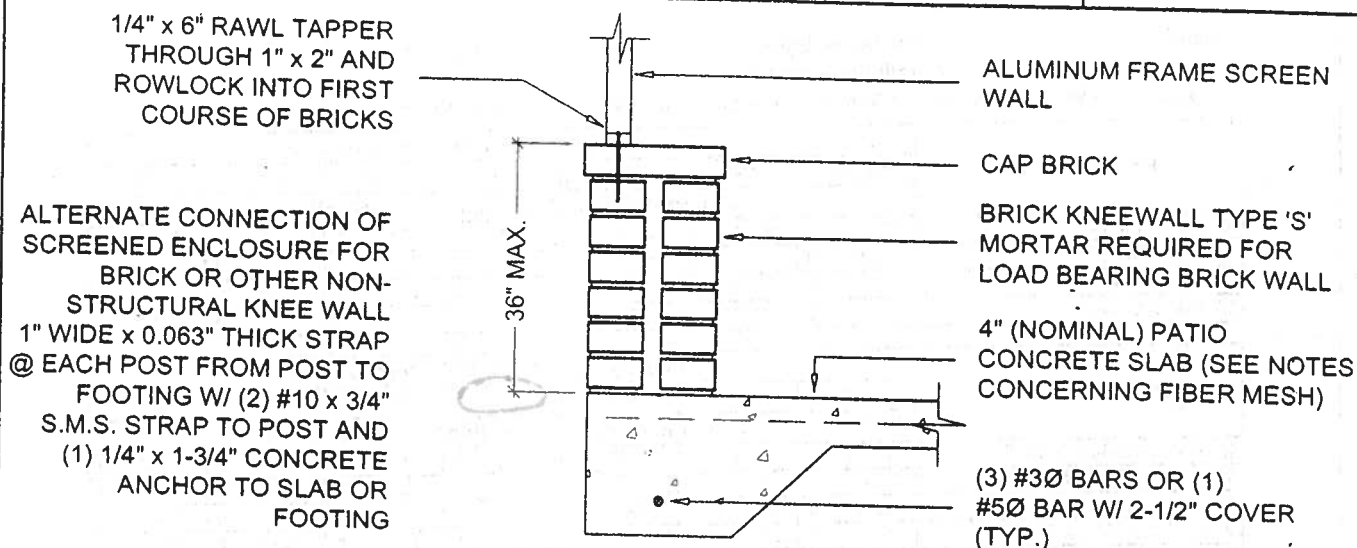
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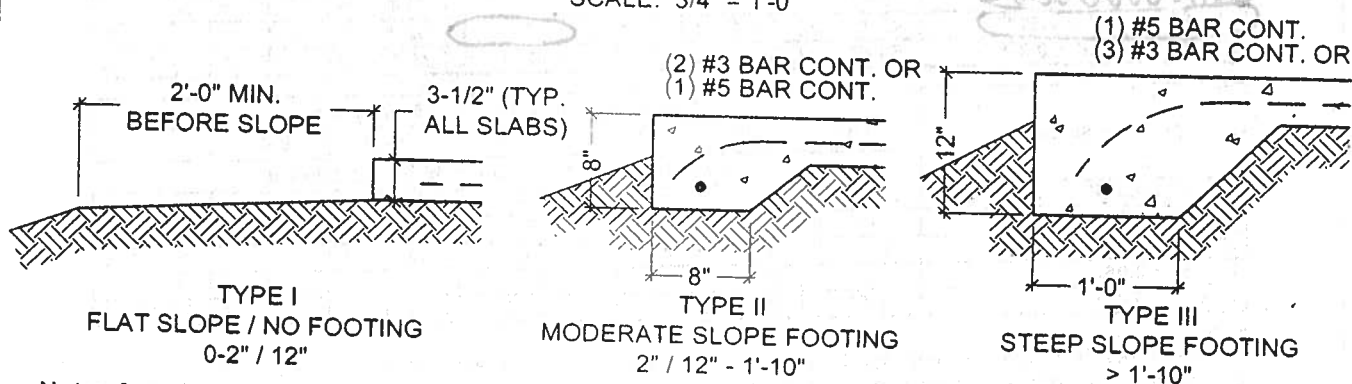
SCREENED ENCLOSURES

SECTION 1



BRICK KNEEWALL AND FOUNDATION FOR SCREEN WALLS

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



Notes for all foundation types:

1. No footing required except when addressing erosion until the slab width in the direction of the primary exceeds 32 ft., then a Type II footing is required under the load bearing wall only unless the side wall exceeds 16 ft. in height or the enclosure is in a "C" exposure category in which case a Type II footing is required for all walls.
2. The foundations shown are based on a minimum soil bearing pressure of 1,500 PSF. Bearing capacity of soil shall be verified, using a pocket penetrometer, field soil test, or by a soil testing lab, to be above 1,500 PSF prior to placing the slab.
3. The slab / foundation shall be cleared of debris and roots and compacted prior to placement of concrete.
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.
5. If local building codes require a minimum footing, use Type II footing or footing sections required by local code. Local code governs.

SLAB-FOOTING DETAILS

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

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SECTION 1

SCREENED ENCLOSURES

Table 1.1

Allowable Spans for Primary Screen Roof Frame Members
Aluminum Alloy 6063 T-6

For Areas with Wind Loads up to 150 M.P.H. and Latitudes Below 30°-30'-00" North (Jacksonville, FL)

Hollow Sections	Tributary Load Width 'W' = Beam Spacing						
	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	Allowable Span 'L' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	9'-10" b	8'-7" b	7'-8" b	6'-11" b	6'-6" b	6'-1" b	5'-8" b
2" x 2" x 0.055"	10'-9" b	9'-4" b	8'-4" b	7'-7" b	7'-1" b	6'-7" b	6'-3" b
2" x 3" x 0.045"	13'-4" b	11'-7" b	10'-4" b	9'-5" b	8'-9" b	8'-2" b	7'-8" b
2" x 4" x 0.050"	14'-8" b	12'-8" b	11'-4" b	10'-4" b	9'-7" b	8'-11" b	8'-5" b

Self Mating Sections	Tributary Load Width 'W' = Beam Spacing						
	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	Allowable Span 'L' / bending 'b' or deflection 'd'						
2" x 4" x 0.044 x 0.100"	19'-11" b	17'-4" b	15'-6" b	14'-2" b	13'-1" b	12'-3" b	11'-6" b
2" x 5" x 0.050" x 0.100"	24'-9" b	21'-5" b	19'-2" b	17'-6" b	16'-2" b	15'-2" b	14'-3" b
2" x 6" x 0.050" x 0.120"	28'-7" b	24'-9" b	22'-2" b	20'-3" b	18'-9" b	17'-6" b	16'-6" b
2" x 7" x 0.055" x 0.120"	32'-3" b	27'-11" b	24'-11" b	22'-9" b	21'-1" b	19'-9" b	18'-7" b
2" x 7" x 0.055" w/ Insert	42'-10" b	37'-1" b	33'-2" b	30'-4" b	28'-1" b	26'-3" b	24'-9" b
2" x 8" x 0.072" x 0.224"	41'-7" b	36'-1" b	32'-3" b	29'-5" b	27'-3" b	25'-6" b	24'-0" b
2" x 8" x 0.072" x 0.224"	45'-1" b	39'-1" b	34'-11" b	31'-11" b	29'-6" b	27'-8" b	26'-1" b
2" x 9" x 0.082" x 0.310"	49'-6" b	42'-11" b	38'-4" b	35'-0" b	32'-5" b	30'-4" b	28'-7" b
2" x 10" x 0.092" x 0.369"	59'-6" b	51'-7" b	46'-1" b	42'-1" b	38'-11" b	36'-5" b	34'-4" b

Snap Sections	Tributary Load Width 'W' = Beam Spacing						
	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	Allowable Span 'L' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	11'-9" b	10'-2" b	9'-1" b	8'-4" b	7'-8" b	7'-2" b	6'-9" b
2" x 3" x 0.045"	15'-1" b	13'-1" b	11'-8" b	10'-8" b	9'-10" b	9'-3" b	8'-8" b
2" x 4" x 0.045"	18'-5" b	15'-11" b	14'-3" b	13'-0" b	12'-1" b	11'-3" b	10'-8" b
2" x 6" x 0.062"	31'-3" b	27'-1" b	24'-2" b	22'-1" b	20'-5" b	19'-2" b	18'-0" b
2" x 7" x 0.062"	34'-9" b	30'-1" b	26'-11" b	24'-7" b	22'-9" b	21'-3" b	20'-1" b

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 55' and a maximum upright height of 20'. Structures larger than these limits shall have site specific engineering.
3. Spans are based on a minimum of 10# / Sq. Ft. for up to a 150 M.P.H. wind load.
4. Span is measured from center of beam and upright connection to fascia or wall connection.
5. 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.
6. Purlin spacing shall not exceed 6'-8". For beam spans greater than 40'-0" the beam at the center purlin and one purlin for each 14'-0" on each side of the center purlin shall include lateral bracing as shown in detail (48'-0") span with purlins at 6'-8" o.c. center purlin and (2) purlins each side of center purlin need lateral bracing.
7. Spans may be interpolated.

Example: Max. 'L' for 2" x 4" x 0.050" hollow section with 'W' = 5'-0" = 11'-4"

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SCREENED ENCLOSURES

SECTION 1

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

For Areas with Wind Loads up to 150 M.P.H. and Latitudes Below 30°-30'-00" North (Jacksonville, FL)

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' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	7'-8" d	7'-4" d	7'-0" d	6'-9" d	6'-6" b	6'-3" b	5'-11" b
2" x 2" x 0.055"	8'-1" d	7'-9" d	7'-5" d	7'-2" d	6'-11" d	6'-9" d	6'-6" b
3" x 2" x 0.045"	8'-8" d	8'-3" d	7'-11" d	7'-8" d	7'-5" d	7'-3" d	6'-11" d
2" x 3" x 0.045"	10'-9" d	10'-3" d	9'-9" b	9'-3" b	8'-10" b	8'-5" b	8'-0" b
2" x 4" x 0.050"	12'-2" b	11'-4" b	10'-8" b	10'-2" b	9'-8" b	9'-3" b	8'-9" b

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' / bending 'b' or deflection 'd'						
2" x 2" x 0.044	8'-5" d	8'-1" d	7'-9" d	7'-6" d	7'-3" d	7'-0" d	6'-9" d
2" x 3" x 0.045"	11'-7" d	11'-1" d	10'-8" d	10'-4" d	9'-11" b	9'-6" b	9'-0" b
2" x 4" x 0.045"	14'-8" d	14'-0" d	13'-6" d	12'-9" b	12'-2" b	11'-8" b	11'-1" b

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' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	9'-2" b	8'-7" b	8'-1" b	7'-8" b	7'-4" b	6'-11" b	6'-7" b
2" x 2" x 0.055"	9'-11" b	9'-4" b	8'-10" b	8'-4" b	7'-11" b	7'-7" b	7'-3" b
2" x 3" x 0.050"	12'-4" b	11'-7" b	10'-11" b	10'-4" b	9'-10" b	9'-5" b	8'-11" b
2" x 4" x 0.050"	13'-7" b	12'-8" b	11'-11" b	11'-4" b	10'-10" b	10'-4" b	9'-10" b

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' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	10'-11" b	10'-2" b	9'-7" b	9'-1" b	8'-8" b	8'-4" b	7'-11" b

Notes:

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Spans are based on a minimum of 10# / Sq. Ft. for up to a 150 M.P.H. wind load.
3. Span is measured from center of beam and upright connection to fascia or wall connection.
3. Span is measured from center of beam and upright connection to fascia or wall connection.
4. Purlin spacing shall not exceed 6'-8". For beam spans greater than 40'-0" the beam at the center purlin and one purlin for each 14'-0" on each side of the center purlin shall include lateral bracing as shown in detail (48'-0") span with purlins at 6'-8" o.c. center purlin and (2) purlins each side of center purlin need lateral bracing.
5. Spans may be interpolated.

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" = 10'-2"

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SECTION 1

SCREENED ENCLOSURES

Table 1.3 Allowable Post / Upright Heights for Primary Screen Wall Frame Members
Aluminum Alloy 6063 T-6
For 3 second wind gust at velocity of 120 MPH or an applied load of 14 # / 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' or deflection 'd'						
2" x 2" x 0.044"	8'-4" b	7'-3" b	6'-6" b	5'-11" b	5'-6" b	5'-1" b	4'-10" b
2" x 2" x 0.055"	9'-1" b	7'-11" b	7'-1" b	6'-5" b	5'-11" b	5'-7" b	5'-3" b
2" x 3" x 0.045"	11'-3" b	9'-9" b	8'-9" b	7'-11" b	7'-5" b	6'-11" b	6'-6" b
2" x 4" x 0.050"	12'-5" b	10'-9" b	9'-7" b	8'-9" b	8'-1" b	7'-7" b	7'-2" 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' or deflection 'd'						
2" x 4" x 0.044 x 0.100"	16'-11" b	14'-8" b	13'-1" b	11'-11" b	11'-1" b	10'-4" b	9'-9" b
2" x 5" x 0.050" x 0.100"	20'-11" b	18'-1" b	16'-2" b	14'-9" b	13'-8" b	12'-10" b	12'-1" b
2" x 6" x 0.050" x 0.120"	24'-2" b	20'-11" b	18'-9" b	17'-1" b	15'-10" b	14'-10" b	13'-11" b
2" x 7" x 0.055" x 0.120"	27'-3" b	23'-7" b	21'-1" b	19'-3" b	17'-10" b	16'-8" b	15'-9" b
2" x 7" x 0.055" w/ Insert	36'-3" b	31'-4" b	28'-1" b	25'-7" b	23'-9" b	22'-2" b	20'-11" b
2" x 8" x 0.072" x 0.224"	35'-2" b	30'-6" b	27'-3" b	24'-10" b	23'-0" b	21'-6" b	20'-4" b
2" x 9" x 0.072" x 0.224"	38'-2" b	33'-0" b	29'-6" b	26'-11" b	24'-11" b	23'-4" b	22'-0" b
2" x 9" x 0.082" x 0.310"	41'-10" b	36'-3" b	32'-5" b	29'-7" b	27'-5" b	25'-8" b	24'-2" b
2" x 10" x 0.092" x 0.369"	50'-4" b	43'-7" b	38'-11" b	35'-7" b	32'-11" b	30'-10" b	29'-1" 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' / bending 'b' or deflection 'd'						
2" x 2" x 0.044"	9'-11" b	8'-7" b	7'-8" b	7'-0" b	6'-6" b	6'-1" b	5'-9" b
2" x 3" x 0.045"	12'-9" b	11'-0" b	9'-10" b	9'-0" b	8'-4" b	7'-10" b	7'-4" b
2" x 4" x 0.045"	15'-7" b	13'-6" b	12'-1" b	11'-0" b	10'-2" b	9'-7" b	8'-11" b
2" x 6" x 0.062"	26'-5" b	22'-10" b	20'-5" b	18'-8" b	17'-3" b	16'-2" b	15'-3" b
2" x 7" x 0.062"	29'-5" b	25'-5" b	22'-9" b	20'-9" b	19'-3" b	17'-11" b	16'-11" b

* For allowable heights at wind velocities other than 120 MPH, see conversion table 1A on the specification page for tables at the beginning of this section and example below.

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 upright length 'H'.
3. Above heights 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.
4. Site specific engineering required for pool enclosures over 20' 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 can be considered as 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. Heights may be interpolated.

CHECK TABLE 1.6 FOR MINIMUM UPRIGHT SIZE FOR BEAMS.

IF SPANS FOR 'C' EXPOSURE CATEGORY AND/OR WINDZONES OTHER THAN 120 MPH ARE REQUIRED, SEE EXAMPLE ON SPECIFICATION PAGE FOR TABLES AT THE BEGINNING OF THIS SECTION.

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[illegible]

DESCRIPTION:
LOT 20 OF 'MAGNOLIA PLACE'
OF THE PUBLIC RECORDS

1. **SURVEYOR'S NOTES:**
1. BOUNDARY BASED ON MON
THE ORIGINAL SURVEY F
BEARINGS ARE BASED ON
2. **THIS PARCEL IS IN ZONE**
3. **PLAIN AS PER FLOOD RA**
120070 0250 B. HOWEVER
4. **THE IMPROVEMENTS, IF A**
DATE OF FIELD SURVEY
5. **IF THEY EXIST, NO UNDE**
THIS SURVEY EXCEPT AS
6. **THIS SURVEY WAS COMPL**
POLICY.

CERTIFIED TO:
ABRAHAM & PAM PAI/AS