

APPLICANT

ROBERT MCINTOSH

PHONE

386.754.8678

ADDRESS

28957NW CORINTH DRIVE

LAKE CITY

FL

32025

OWNER

DONALD STRINGFELLOW

PHONE

752-1463

ADDRESS

233SW AIRPARK GLEN

LAKE CITY

FL

32025

CONTRACTOR

MICHAEL DELAHOZ

PHONE

LOCATION OF PROPERTY

90W, TL ON SISTERS WELCOME RD, TL ON AIRPARK GLEN,
1ST HOUSE ON LEFT PAST RUNWAY

TYPE DEVELOPMENT

POOL ENCLOSURE

ESTIMATED COST OF CONSTRUCTION

7410.00

HEATED FLOOR AREA

TOTAL AREA

HEIGHT

12.50

STORIES

1

FOUNDATION

WALLS

ROOF PITCH

FLOOR

LAND USE & ZONING

RSF-2

MAX. HEIGHT

35

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

12-4S-16-02947-026

SUBDIVISION

CANNON CREEK AIRPARK

LOT

25/26

BLOCK

PHASE

UNIT

TOTAL ACRES

1.24

SCC056689

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

EXISTING

X-07-274

CFS

JTH

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS:

NOC ON FILE.

Check # or Cash

3433

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

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

CLERKS OFFICE

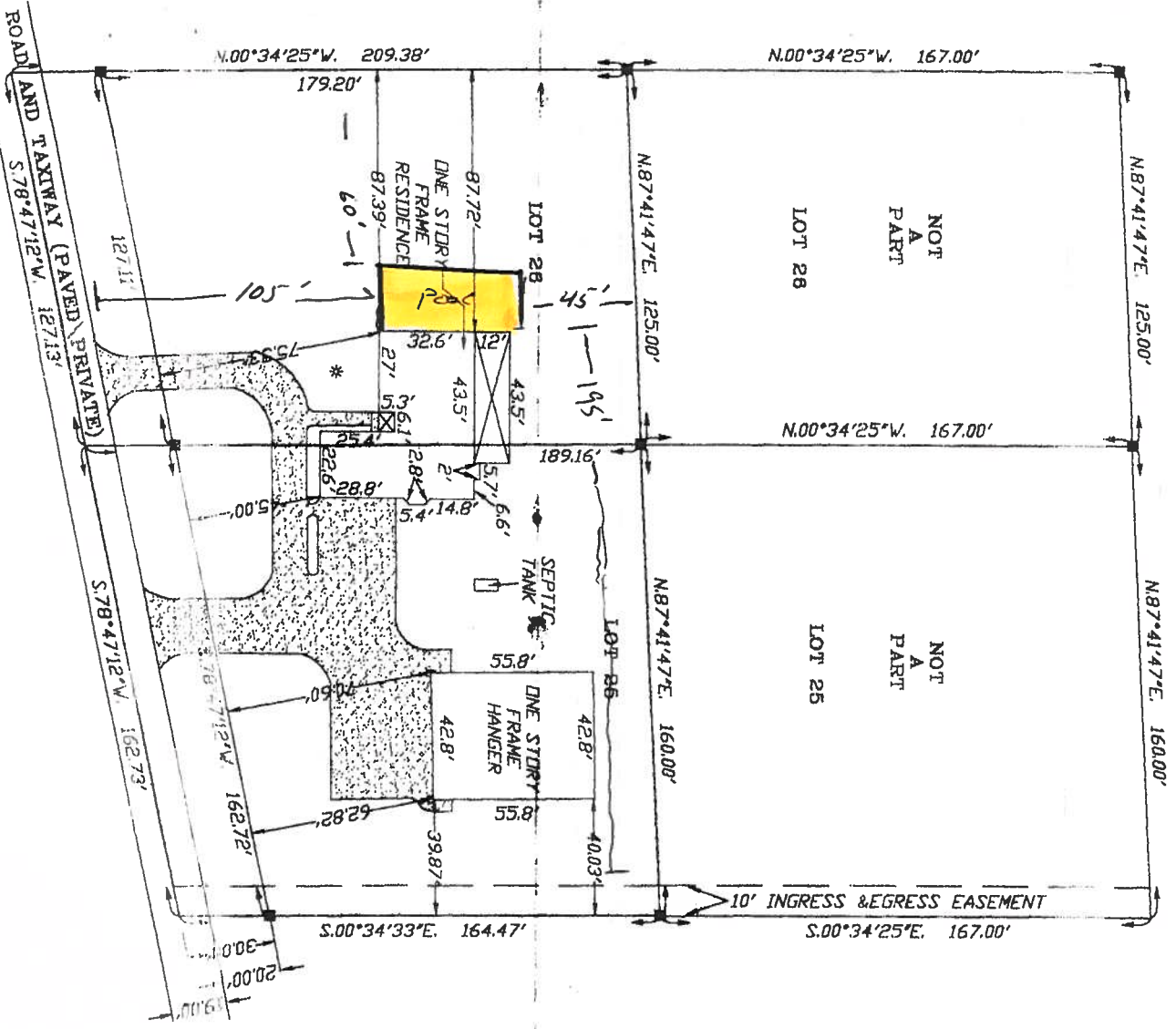
NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES,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

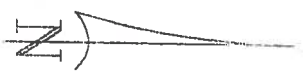
This Permit Must Be Prominently Posted on Premises During Construction

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 INCONVENIENCE, 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.



SCALE: 1" = 60'



- SYMBOL LEGEND
- 4"x4" CONCRETE MONUMENT FOUND
 - 4"x4" CONCRETE MONUMENT SET
 - IRON PIPE FOUND
 - IRON PIN AND CAP SET
 - POWER POLE
 - WATER METER
 - CENTERLINE
 - WELL
 - SATELLITE DISH
 - TELEPHONE BOX
 - ELECTRIC LINES
 - WIRE FENCE
 - CHAIN LINK FENCE
 - WOODEN FENCE

DESCRIPTION:
LOTS 25 AND 26 OF CANNON CREEK AIRPARK, A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 5, PAGE 38 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, LESS AND EXCEPT THE NORTH 167-FEET THEREOF, AND SUBJECT TO AN EASEMENT OVER AND ACROSS THE SOUTH 30 FEET AND THE EAST 10 FEET THEREOF, TOGETHER WITH THE RIGHTS OF INGRESS AND EGRESS OVER AND ACROSS THE EAST 10 FEET OF LOT 25 AND THE WEST 50 FEET OF LOT 24, COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES:
- RECORDING PLAT BY REINVESTMENT FLOOD IN ACCORDANCE WITH THE REQUIREMENTS OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
 - BEARINGS ARE BASED ON SAID PLAT OF RECORD.
 - THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0175 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
 - THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
 - IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
 - THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

Existing Permit for Addition 35537

Columbia County Building Permit Application

CK# 393

For Office Use Only Application # 0707-01 Date Received 7/02 By JW Permit # 25987
 Application Approved by - Zoning Official [Signature] Date 7/3/07 Plans Examiner OK JTH Date 7-3-07
 Flood Zone N/A Development Permit — Zoning RSF 2 Land Use Plan Map Category RLD
 Comments _____
☒ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Robert McIntosh Phone 386-754-8678
 Address 289 NW Corinth Dr Lake City FL 32055
 Owners Name Stringfellow, Donald Phone _____
 911 Address 233 Airpark Glen Lake City 32025
 Contractors Name Michael A DelaHoz Phone 386-754-8678
 Address 927 Hickory St Altamonte Springs, FL 32701
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address _____
 Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 12-48-16-02947-026 HX Estimated Cost of Construction 7,430.00
 Subdivision Name Cannon Creek Air Park S/D Lot 2542 Block _____ Unit _____ Phase _____
 Driving Directions Hwy 90 to Sisterwellcome, left on Airpark Glen, 1st House on Left pass runway

Type of Construction Pool Enclosure Number of Existing Dwellings on Property 1
 Total Acreage 1.239 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 105' Side 60' Side 195' Rear 195'
 Total Building Height 12'5" Number of Stories 1 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.

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

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 18 day of Jan 2007.
 Personally known ☒ or Produced Identification _____

Contractor Signature [Signature]
 Contractors License Number 22056689
 Competency Card Number _____

NOTARY STAMP/SEAL

 Nadean G.S. McIntosh
 Commission # DD371494
 Expires November 14, 2008
 Bonded Troy Fain - Insurance, Inc. 800-385-7819

Notary Signature

(Revised Sept. 2006)

ALL INFORMATION FOR DEF 7307

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THE UNDERSIGNED hereby gives notice that improvement 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.

Tax Parcel ID Number 12-48-16-0247-026

1. Description of property: (legal description of the property and street address or 911 address)

Lot 25 + 26 of Cannon Creek Air Park
233 SW Airport Glen, Lake City FL

2. General description of improvement: Pool Enclosure

3. Owner Name & Address Donald Stringfellow

233 SW Airport Glen Lake City Interest in Property owner

4. Name & Address of Fee Simple Owner (if other than owner): n/a

5. Contractor Name Mike DelaHoz Phone Number 386-754-8678

Address 289 NW Corinth Dr Lake City FL 32055

6. Surety Holders Name n/a Phone Number _____

Address _____

Amount of Bond _____

Inst: 200712014579 Date: 7/2/2007 Time: 8:55 AM

DC, P. DeWitt Cason, Columbia County Page 1 of 1

7. Lender Name n/a Phone Number _____

Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name _____ Phone Number _____

Address _____

9. In addition to himself/herself the owner designates FI Pool Enclosure of

289 NW Corinth Dr Lake City 32055 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee 386-754-8678

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Donald A Stringfellow
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of April 5, 2007

NOTARY STAMP



Nadean G.S. McIntosh
Commission # DD371494
Expires November 14, 2008

Bonded Troy Fahn - Insurance, Inc. 800-345-7019

Nadean G.S. McIntosh
Signature of Notary

Columbia County Property Appraiser

DB Last Updated: 5/11/2007

Parcel: 12-4S-16-02947-026 HX

2007 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

Owner & Property Info

<< Prev

Search Result: 2 of 4

Next >>

Owner's Name	STRINGFELLOW DONALD R &		
Site Address	AIRPARK		
Mailing Address	MARY ELLEN HODSON STRINGFELLOW 233 SW AIRPARK GLN LAKE CITY, FL 32025		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	12416.03	Tax District	2
UD Codes	MKTA06	Market Area	06
Total Land Area	1.239 ACRES		
Description	LOTS 25 & 26 EX N 167 FT CANNON CREEK AIR PARK S/D. ORB 644-335, 685-195, 702-619, 896-063,		

GIS Aerial**Property & Assessment Values**

Mkt Land Value	cnt: (1)	\$63,500.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$169,530.00
XFOB Value	cnt: (2)	\$5,730.00
Total Appraised Value		\$238,760.00

Just Value		\$238,760.00
Class Value		\$0.00
Assessed Value		\$157,936.00
Exempt Value	(code: HX)	\$25,000.00
Total Taxable Value		\$132,936.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
1/27/2000	896/63	WD	I	Q		\$180,000.00
11/17/1989	702/619	WD	V	Q		\$19,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1991	Average (05)	1842	5170	\$169,530.00
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)
0166	CONC,PAVMT	0	\$4,130.00	5900.000	0 x 0 x 0	PD (50.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	1.000 LT - (1.239AC)	1.00/1.00/1.00/1.00	\$63,500.00	\$63,500.00

Columbia County Property Appraiser

DB Last Updated: 5/11/2007

<< Prev

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Next >>



Advantage Pools
757 SW SR 247 Suite 101
Lake City FL 32025
Phone: 386-758-7522
Fax: 386-758-6932

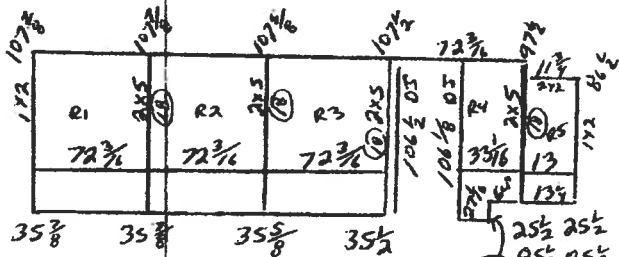
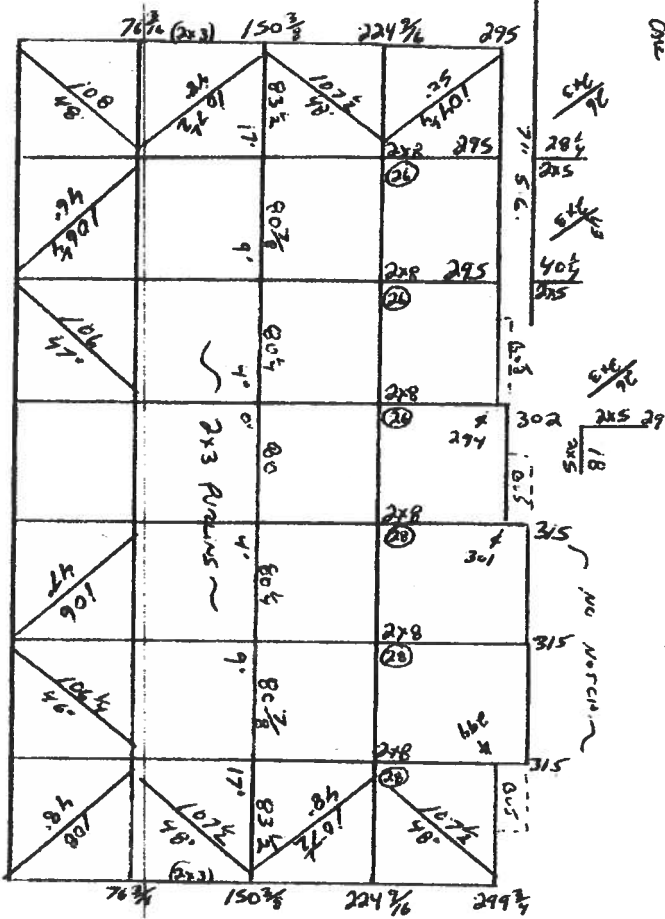
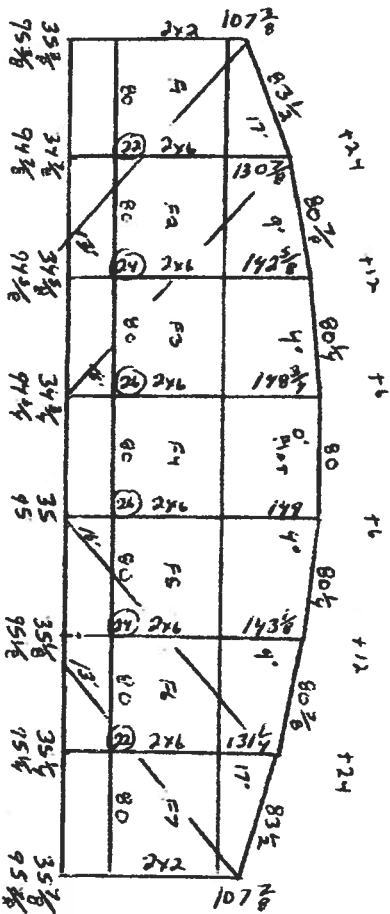
Designed by:
Ray Lussier

Accepted
by:

MAIL LIST

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6-Knoc
Bros
F-Wa 11



FILE COPY

January 01, 2007

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 "ALUMINUM STRUCTURES DESIGN MANUAL" during the year 2007. 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 2007.

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.

Mike Delahoz
AAF Mid Fl
Florida Pool Enclosures Inc
P.O. Box 521136
Longwood, FL 32752

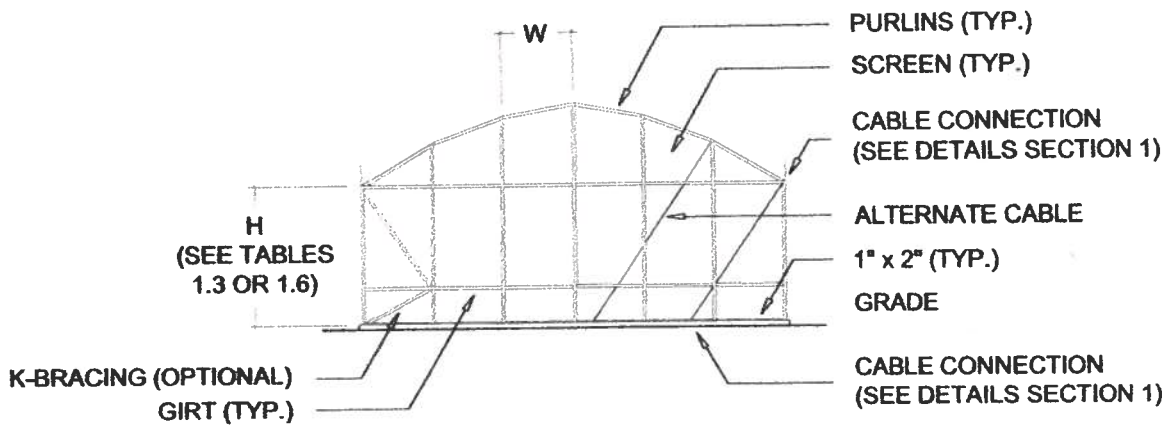
They are hereby added to my 2007 MASTERFILE LIST

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

Sincerely,

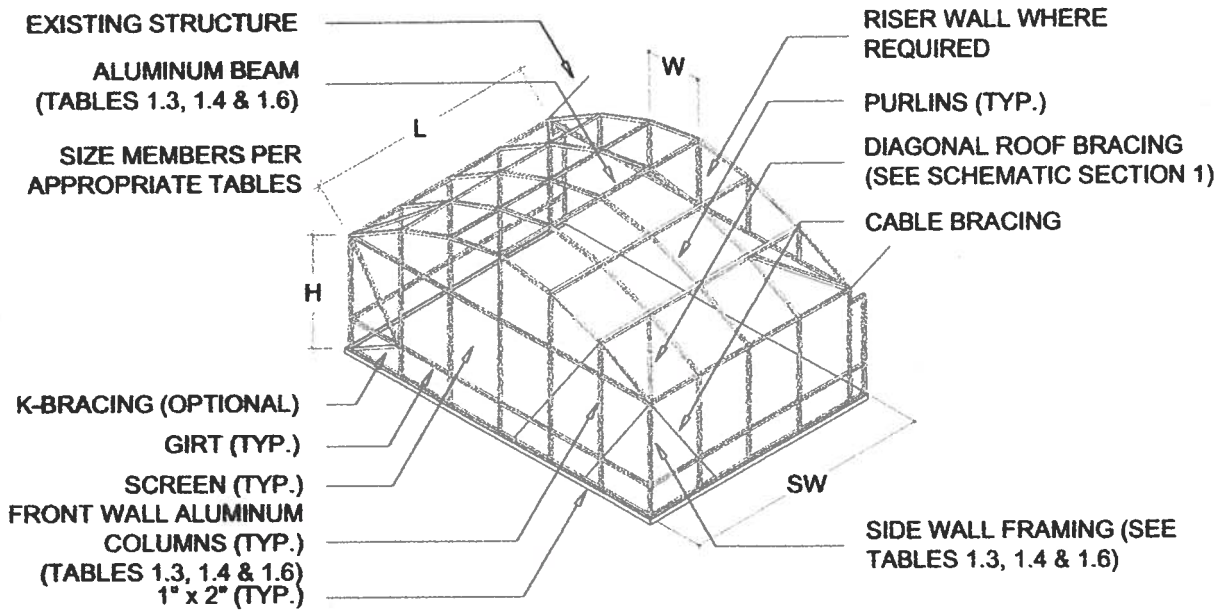
Lawrence E. Bennett, P.E. #16644

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TYPICAL DOME ROOF - FRONT WALL ELEVATION

SCALE: N.T.S.



TYPICAL DOME ROOF - ISOMETRIC

SCALE: N.T.S.

CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES.

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

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214368, South Daytona, FL 32121

Telephone #: (386) 767-4774 Fax #: (386) 767-6556

Email: lebpe@bellsouth.net

SCREENED ENCLOSURES

SECTION 1

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 leg of channel
To 3'-0"	2" x 3" x 0.045"	2" H-Channel With (3) #10 x 1/2" each leg of channel
Up to 6'-0"	2" x 4" x 0.044" x 0.100"	2" H-Channel With (4) #10 x 1/2" each leg of channel

* Knee brace length shall be the horizontal and vertical length @ a 45° angle from the center of the connection to the face of the beam or upright.

Note:

1. For required knee braces greater than 4'-6" contact engineer for specifications and details.
2. Cantilever beam detail shown on page 1-40 shall be used for transom wall to host structure attachment when knee brace length exceeds 6'-0".

Table 1.8

K-Bracing Fastening Schedule

Maximum Wall Width =	Number of #10 x 3/4" S.M.S. Required				
	Corner Post @ Top	Diagonals (K) per End	Intermediate Post @ Chair Rail	Corner Post @ Bottom	Plate to Sole Plate
20'-0"	2	2	4	2	2
30'-0"	2	2	4	2	2
40'-0"	3	4	6	2	2
50'-0"	4	5	8	3	3
60'-0"	6	7	12	3	3

Use front wall width when determining number of s.m.s. for the side wall K-bracing.

Use side wall width when determining number of s.m.s. for the front and / or back wall K-bracing.

REVISED APRIL 2007

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

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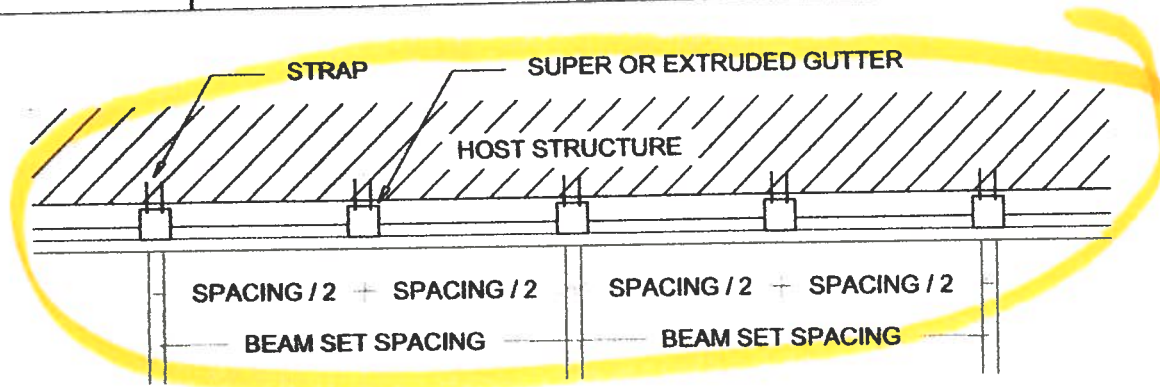
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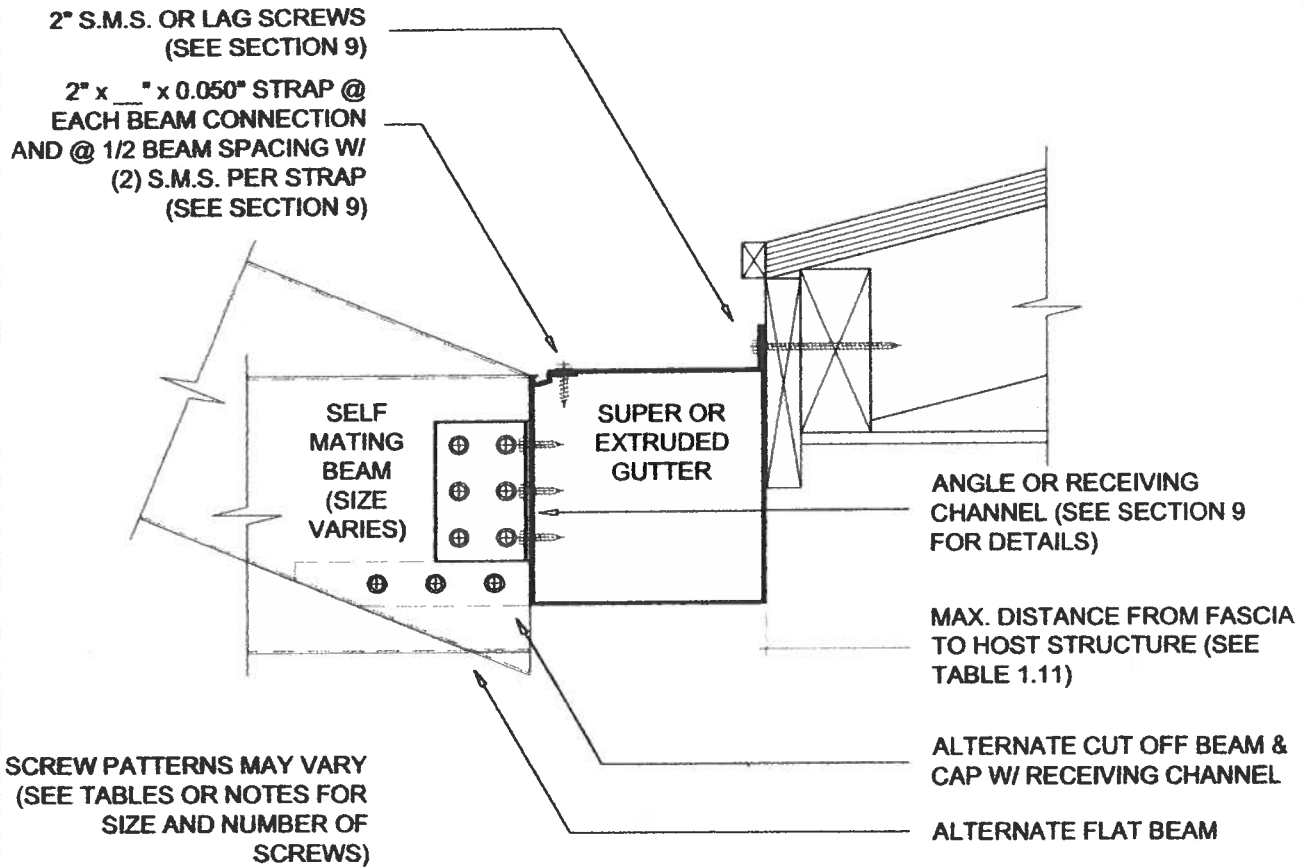
SECTION 1

SCREENED ENCLOSURES



STRAP LOCATION FOR SUPER OR EXTRUDED GUTTER REINFORCEMENT

SCALE: $\frac{3}{8}" = 1'-0"$



SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: $3" = 1'-0"$

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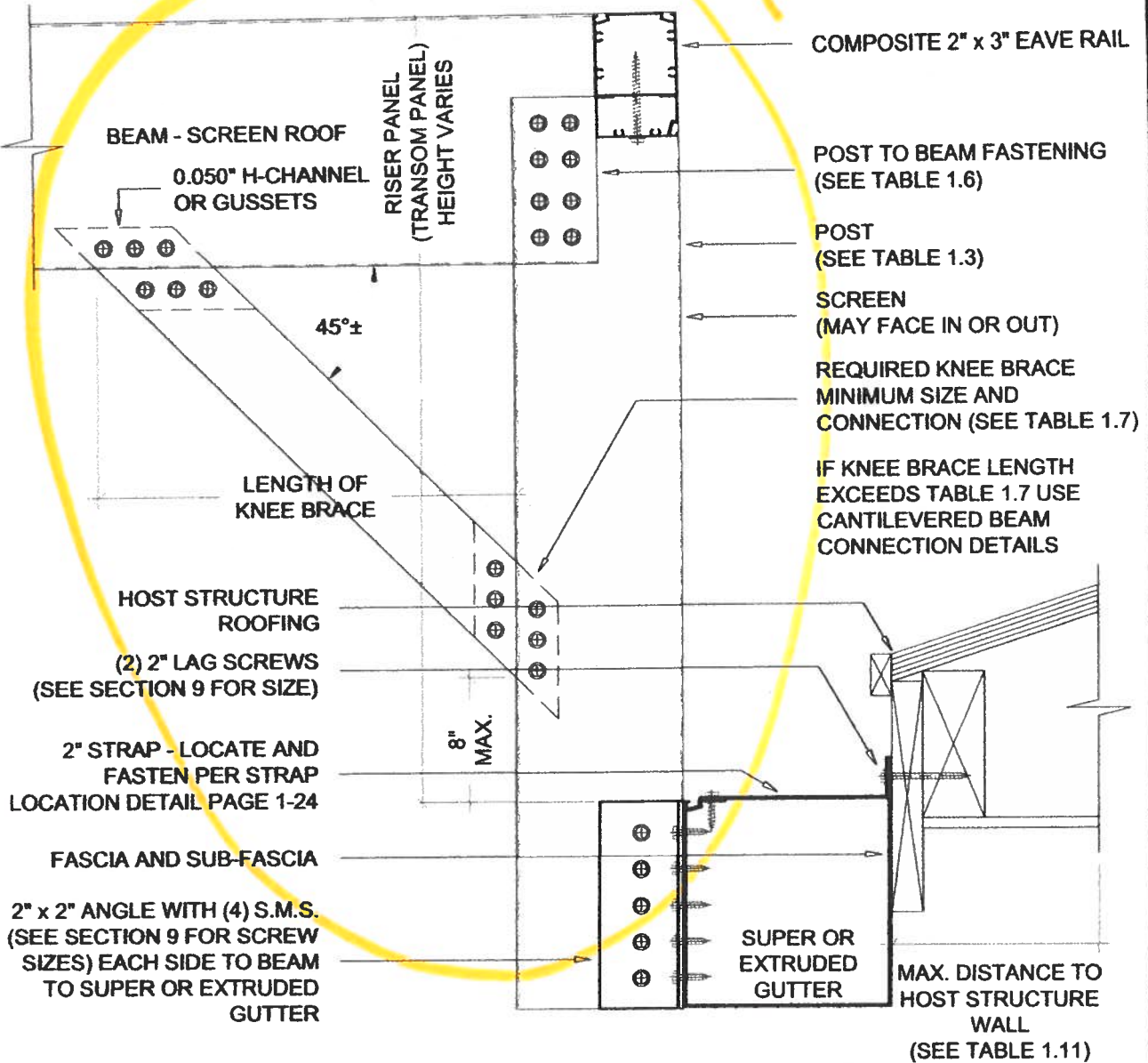
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SECTION 1

SCREENED ENCLOSURES



**SUPER OR EXTRUDED GUTTER
RISER (OR TRANSOM) WALL AT FASCIA - DETAIL 4**

SCALE: 3" = 1'-0"

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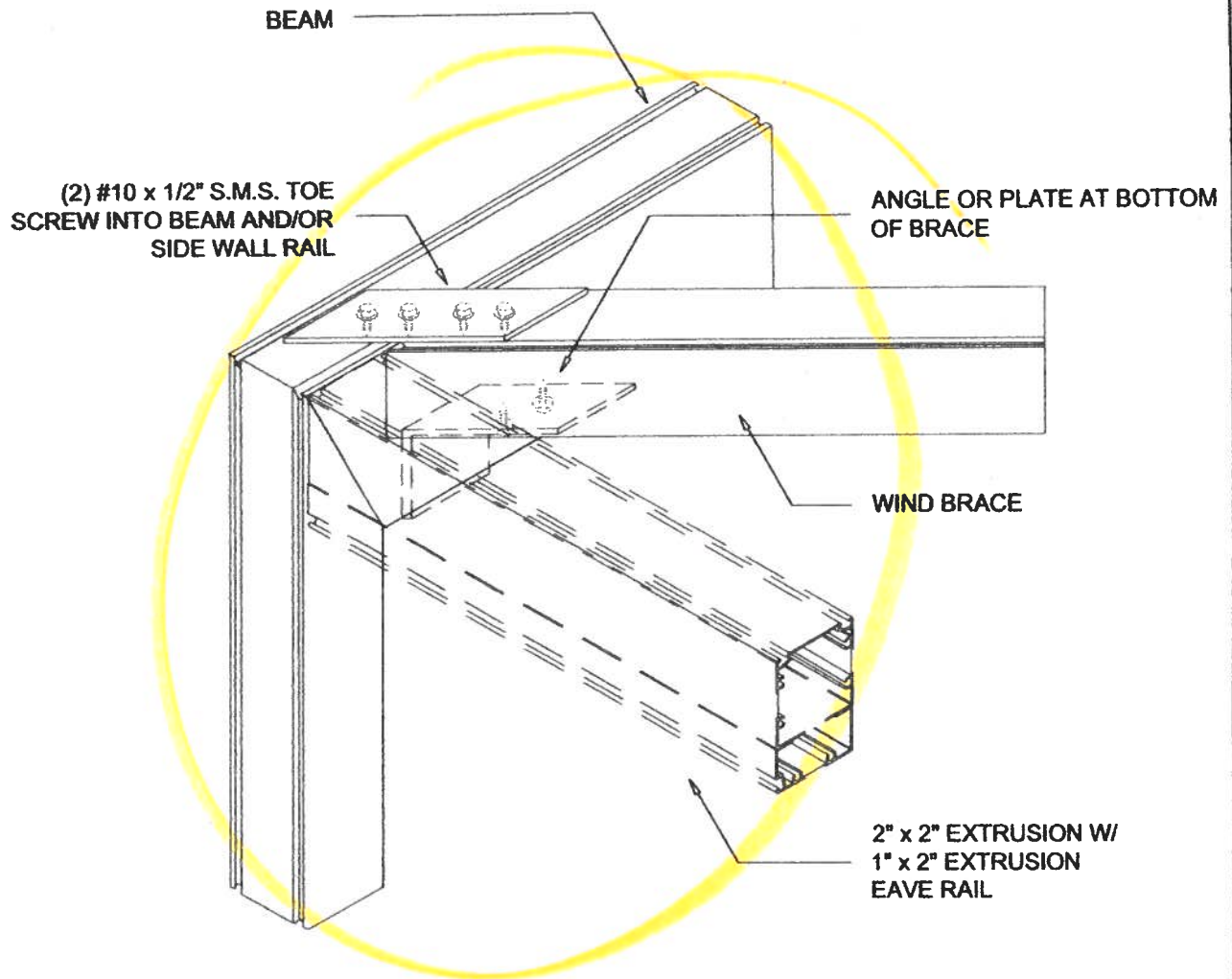
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1-32

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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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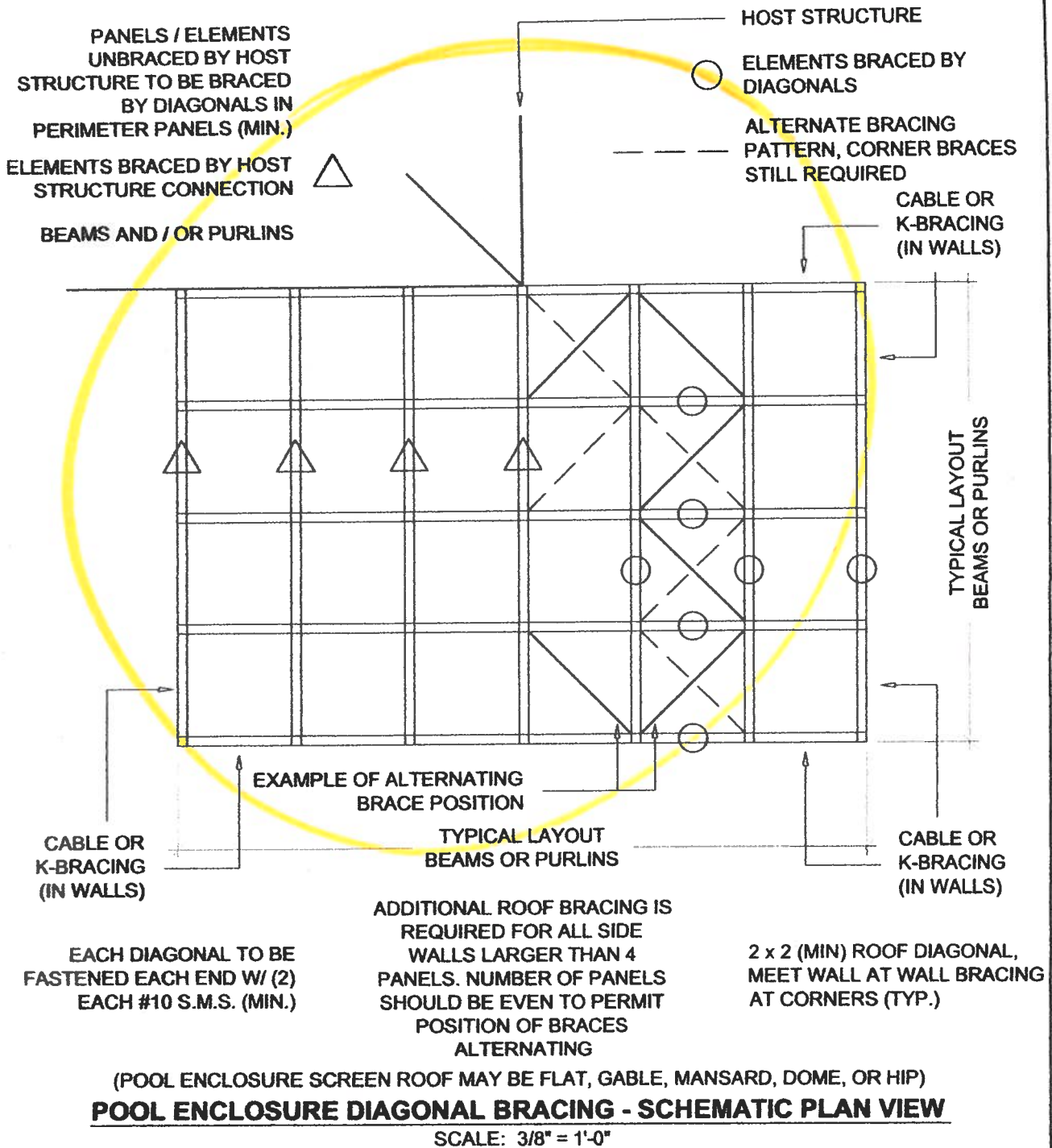
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SECTION 1

SCREENED ENCLOSURES



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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 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 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.
4. Additional roof bracing is required for all side walls larger than 4 panels. Number of panels shall be even and position shall be alternating.

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

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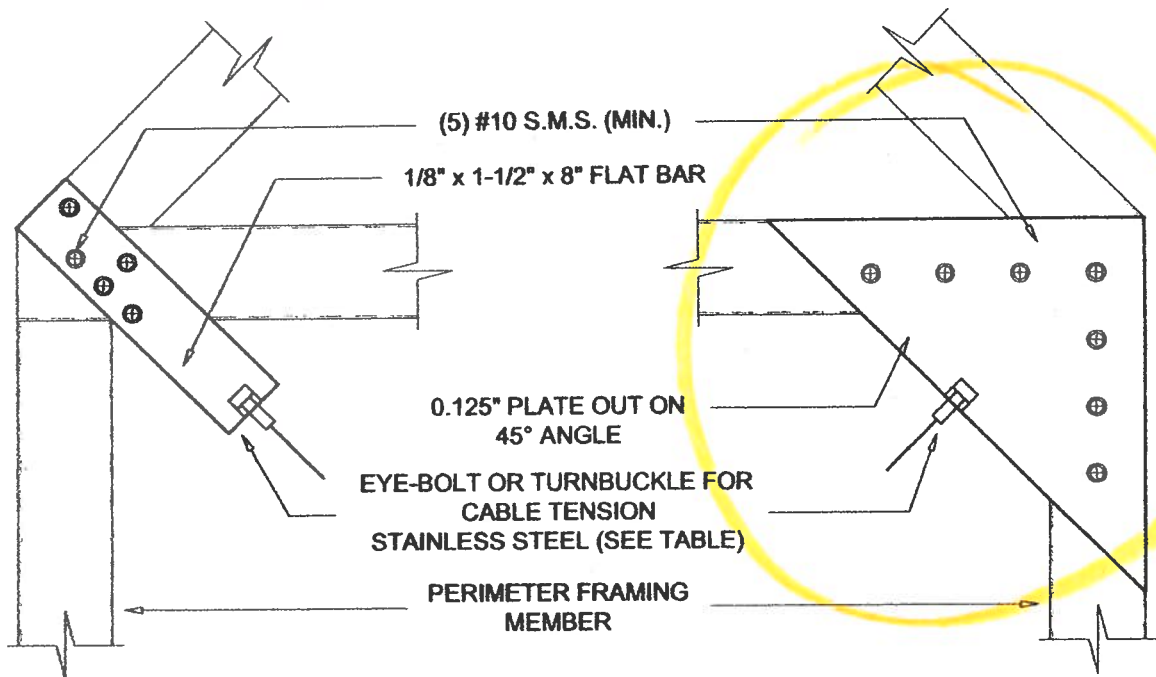
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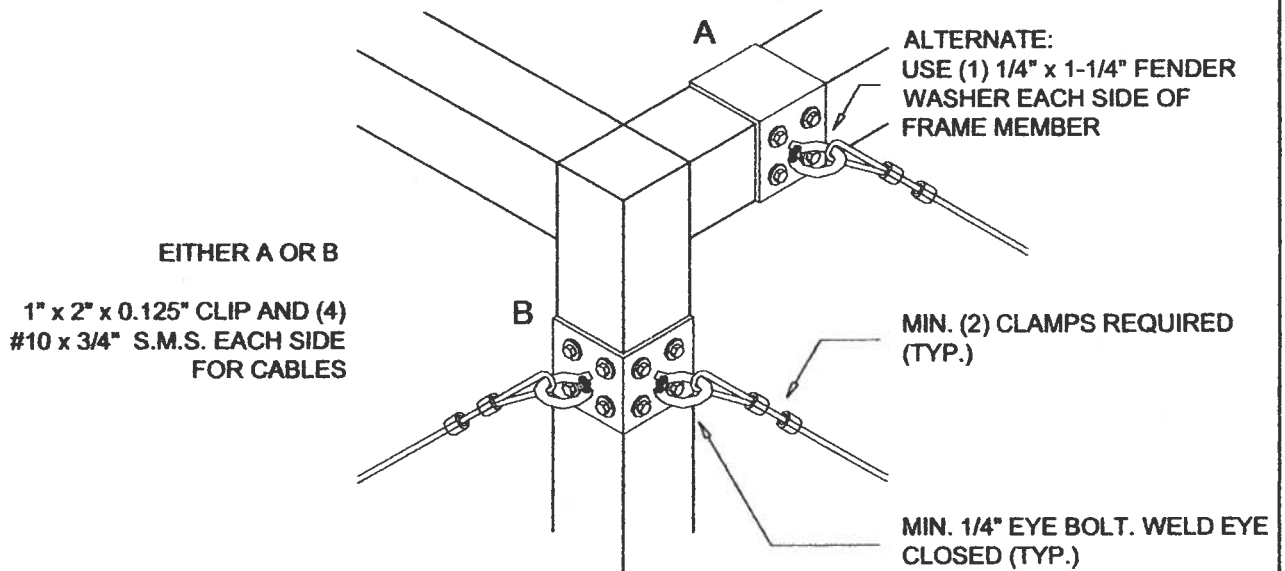
SCREENED ENCLOSURES

SECTION 1



TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1

SCALE: 3" = 1'-0"



ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A

SCALE: 3" = 1'-0"

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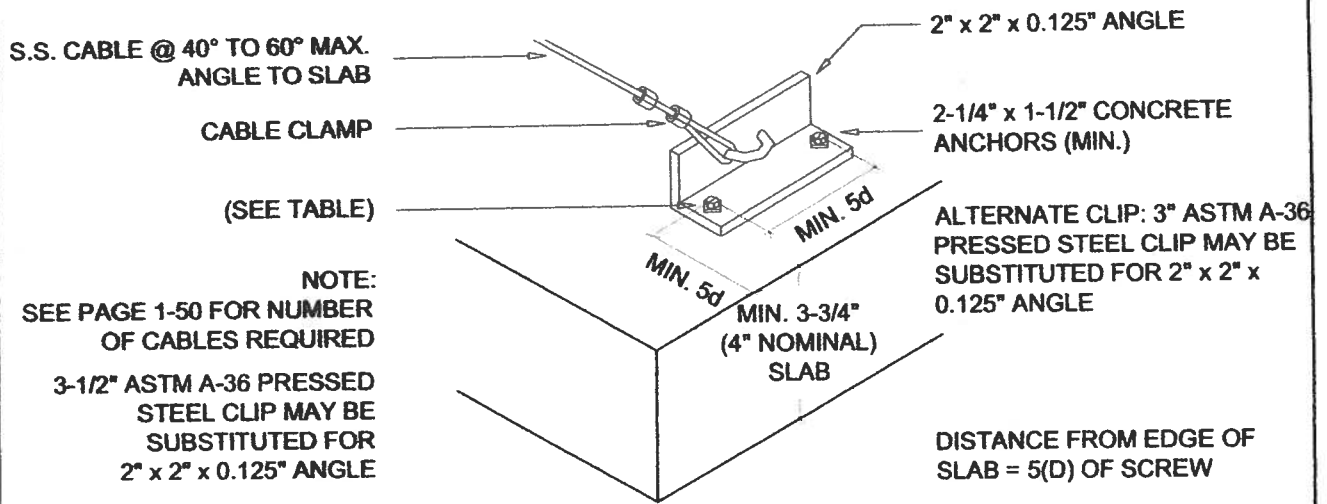
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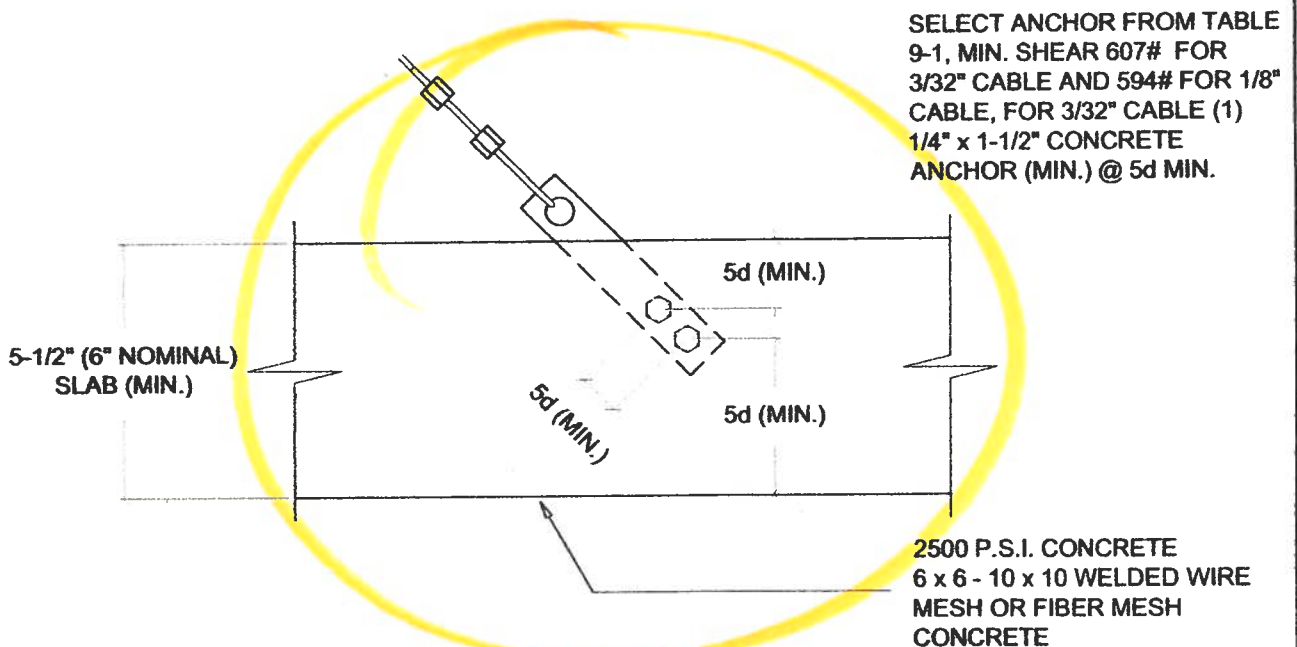
SCREENED ENCLOSURES

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

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

1" x 2" OR 1" x 3"

PURLIN & CHAIR RAIL DETAIL

SCALE: 3" = 1'-0"

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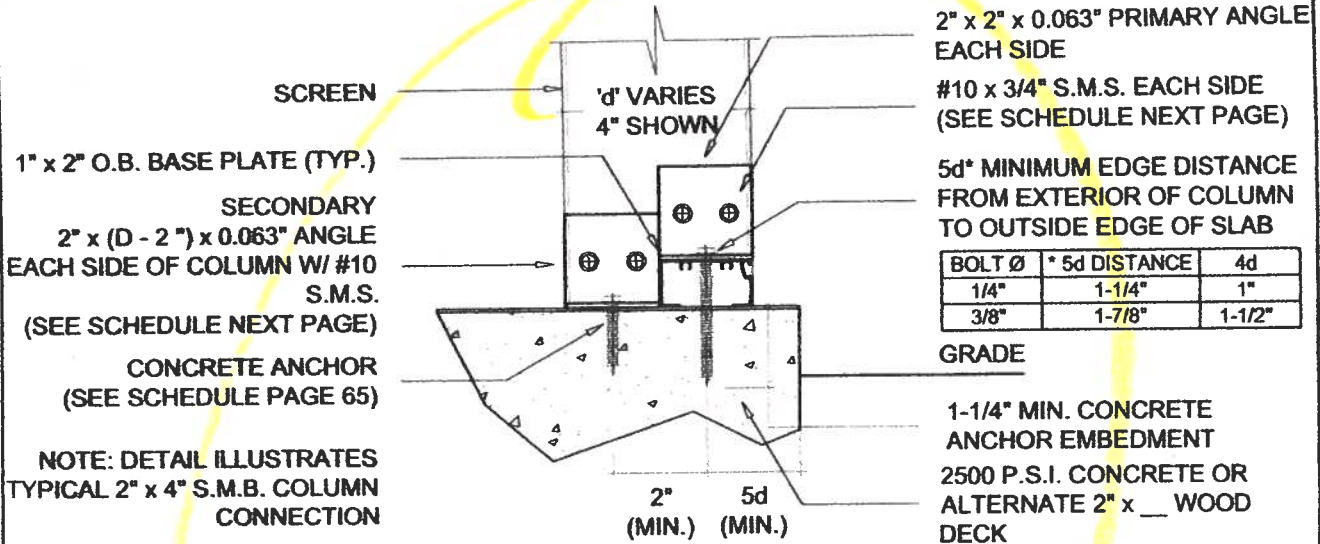
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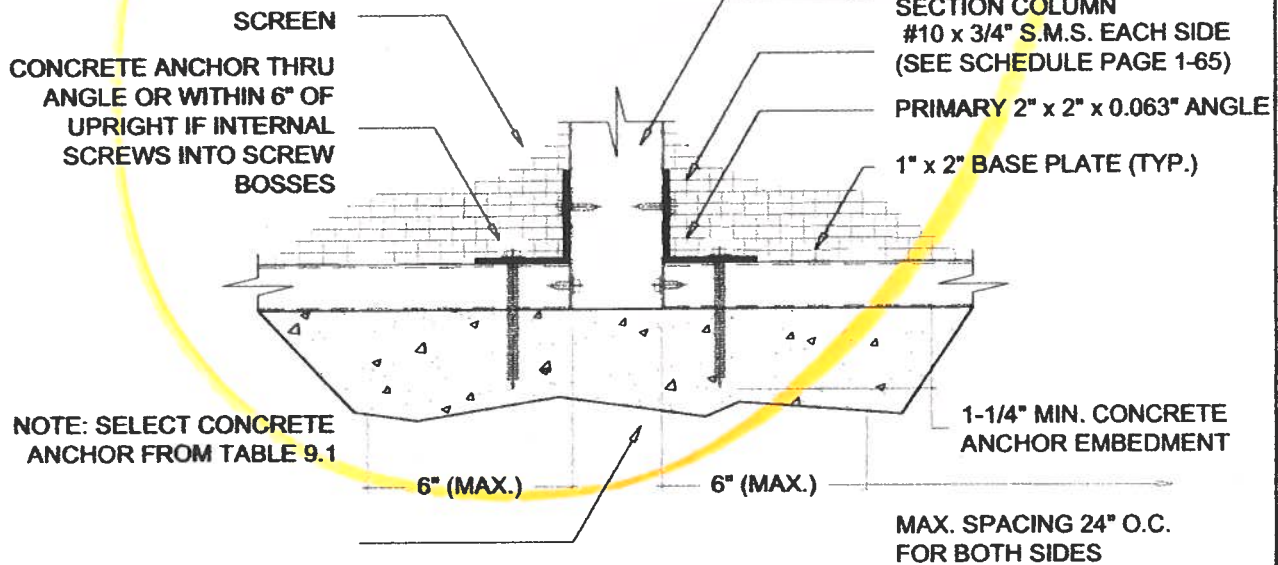
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SECTION 1

SCREENED ENCLOSURES



SIDE VIEW



FRONT VIEW

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

SCALE: 3" = 1'-0"

NOTE:

1. FOR SIDE WALLS OF 2" x 4" OR SMALLER ONLY ONE ANGLE IS REQUIRED.
2. PREDRILL PAVERS W/ MIN. 1/4" MASONRY BIT.

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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

Uniform Load = 4 #/SF, a Point Load of 500 #/SF over (7) linear ft. is also considered														
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" / 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'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb
2" x 3" x 0.045"	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5"	Pb	20'-4"	Ud	19'-4"	Ud	18'-6"	Ud	17'-9"	Ud

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" / 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	11'-8"	Pd
2" x 5" x 0.050" x 0.100"	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	15'-9"	Ud	15'-1"	Ud
2" x 6" x 0.050" x 0.120"	20'-4"	Pd	20'-4"	Pd	20'-4"	Pd	20'-3"	Ud	19'-3"	Ud	18'-5"	Ud	17'-8"	Ud
2" x 7" x 0.055" x 0.120"	24'-9"	Pd	24'-9"	Pd	24'-6"	Ud	23'-1"	Ud	21'-11"	Ud	20'-11"	Ud	20'-2"	Ud
2" x 8" x 0.072" x 0.224"	34'-2"	Pd	32'-9"	Ud	30'-5"	Ud	28'-7"	Ud	27'-2"	Ud	25'-11"	Ud	24'-11"	Ud
2" x 9" x 0.072" x 0.224"	39'-3"	Pd	35'-11"	Ud	33'-4"	Ud	31'-5"	Ud	29'-10"	Ud	28'-6"	Ud	27'-5"	Ud
2" x 9" x 0.082" x 0.310"	42'-5"	Ud	38'-7"	Ud	35'-10"	Ud	33'-8"	Ud	31'-11"	Ud	30'-7"	Ud	29'-5"	Ud
2" x 10" x 0.092" x 0.369"	49'-3"	Ud	44'-9"	Ud	41'-7"	Ud	39'-1"	Ud	37'-2"	Ud	35'-6"	Ud	34'-2"	Ud

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" / 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	4'-10"	Pd
2" x 3" x 0.045"	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd
2" x 4" x 0.045"	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd
2" x 6" x 0.062"	22'-2"	Pd	22'-2"	Pd	22'-2"	Pd	21'-5"	Ud	20'-5"	Ud	19'-6"	Ud	18'-9"	Ud
2" x 7" x 0.062"	26'-8"	Pd	26'-8"	Pd	25'-9"	Ud	24'-3"	Ud	23'-0"	Ud	22'-0"	Ud	21'-2"	Ud

Note:

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

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SCREENED ENCLOSURES

SECTION 1

Table 1.3 120 Allowable Post / Upright Heights for Primary Screen Wall Frame Members
Aluminum Alloy 6063 T-6

For 3 second wind gust at a velocity of 120 MPH, Exposure "B" or an applied load of 15 #/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"	6'-11"	b	5'-11"	b	5'-3"	b	4'-9"	b
2" x 2" x 0.050"	7'-5"	d	6'-7"	b	5'-10"	b	5'-3"	b
2" x 2" x 0.090"	8'-7"	d	7'-9"	d	7'-4"	d	6'-8"	b
2" x 3" x 0.045"	7'-11"	d	7'-3"	d	7'-2"	d	6'-6"	d
2" x 4" x 0.050"	10'-5"	b	8'-11"	b	7'-11"	b	7'-2"	b
2" x 5" x 0.062"	16'-0"	b	13'-10"	b	12'-3"	b	11'-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), deflection (d)							
2" x 4" x 0.044 x 0.100"	11'-4"	d	10'-4"	d	9'-7"	d	8'-9"	b
2" x 5" x 0.050 x 0.100"	14'-0"	d	12'-9"	d	11'-10"	d	10'-10"	b
2" x 6" x 0.050 x 0.120"	16'-5"	d	14'-11"	d	13'-4"	b	12'-2"	b
2" x 7" x 0.055 x 0.120"	18'-9"	d	16'-3"	b	14'-6"	b	13'-2"	b
2" x 8" x 0.072 x 0.224"	23'-2"	d	21'-1"	d	19'-7"	d	18'-5"	d
2" x 9" x 0.072 x 0.224"	25'-5"	d	23'-1"	d	21'-6"	d	20'-2"	d
2" x 9" x 0.082 x 0.310"	27'-4"	d	24'-10"	d	23'-0"	d	21'-8"	d
2" x 10" x 0.092 x 0.369"	31'-9"	d	28'-10"	d	26'-9"	d	25'-2"	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'-3"	d	5'-8"	d	5'-4"	d	4'-11"	d
2" x 3" x 0.045"	8'-6"	d	7'-8"	d	7'-2"	d	6'-6"	b
2" x 4" x 0.045"	10'-8"	d	9'-8"	d	8'-6"	b	7'-7"	b
2" x 6" x 0.062"	17'-5"	d	15'-10"	d	14'-8"	d	13'-10"	d
2" x 7" x 0.062"	19'-8"	d	17'-10"	d	16'-7"	d	15'-7"	d

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 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.

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SCREENED ENCLOSURES

SECTION 1

Table 1.4 120 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 120 MPH, Exposure "B" or an applied load of 15 # / 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"	6'-11"	b	5'-11"	b	5'-3"	b	4'-9"	b	4'-4"	b	3'-11"	b	3'-8"	b
2" x 2" x 0.050"	7'-5"	d	6'-7"	b	5'-10"	b	5'-3"	b	4'-10"	b	4'-5"	b	4'-2"	b
2" x 2" x 0.060"	8'-7"	d	7'-9"	d	7'-4"	d	6'-8"	b	6'-1"	b	5'-8"	b	5'-4"	b
3" x 2" x 0.045"	7'-11"	d	6'-10"	b	6'-1"	b	5'-5"	b	4'-11"	b	4'-7"	b	4'-3"	b
3" x 2" x 0.070"	8'-11"	d	8'-1"	d	7'-3"	b	6'-6"	b	5'-11"	b	5'-7"	b	5'-2"	b
2" x 3" x 0.045"	7'-11"	d	7'-3"	d	7'-2"	d	6'-6"	d	5'-11"	b	5'-6"	b	5'-2"	b
2" x 4" x 0.050"	10'-5"	b	8'-11"	b	7'-11"	b	7'-2"	b	6'-7"	b	6'-1"	b	5'-8"	b
2" x 5" x 0.062"	16'-0"	b	13'-10"	b	12'-3"	b	11'-2"	b	10'-3"	b	9'-7"	b	8'-11"	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'-3"	d	5'-8"	d	5'-4"	d	4'-11"	d	4'-6"	b	4'-2"	b	3'-10"	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"	7'-9"	b	6'-8"	b	5'-10"	b	5'-3"	b	4'-10"	b	4'-5"	b	4'-2"	b
3" x 2" x 0.045"	8'-11"	b	7'-8"	b	6'-9"	b	6'-1"	b	5'-7"	b	5'-2"	b	4'-9"	b
3" x 2" x 0.070"	10'-8"	b	9'-1"	b	8'-1"	b	7'-4"	b	6'-8"	b	6'-2"	b	5'-9"	b
2" x 3" x 0.045"	10'-7"	b	9'-1"	b	8'-1"	b	7'-3"	b	6'-8"	b	6'-2"	b	5'-9"	b
2" x 4" x 0.050"	11'-8"	b	10'-0"	b	8'-10"	b	8'-0"	b	7'-4"	b	6'-10"	b	6'-4"	b
2" x 5" x 0.062"	17'-11"	b	15'-5"	b	13'-9"	b	12'-6"	b	11'-6"	b	10'-8"	b	10'-0"	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'-5"	d	7'-2"	b	6'-3"	b	5'-7"	b	5'-1"	b	4'-7"	b	4'-3"	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.

REVISED APRIL 2007

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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	#14
2 x 9 SMB	2 x 6 SMB	2" x 3" x 0.045"	Full Lap	18	16	14	#14**
2 x 9 SMB *	2 x 7 SMB	2" x 4" x 0.050"	Full Lap	20	18	16	#14**
2 x 10 SMB	2 x 8 SMB	2" x 5" x 0.050"	Full Lap	20	18	16	#14**

Screw Size	Minimum Distance and Spacing of Screws		Gusset Plate Thickness	
	Edge To Center	Center To Center	Beam Size	Thickness
#8	5/16"	5/8"	2" x 7" x 0.055" x 0.120"	0.063"
#10	3/8"	3/4"	2" x 8" x 0.072" x 0.224"	0.125"
#12	1/2"	1"	2" x 9" x 0.072" x 0.224"	0.125"
#14 or 1/4"	3/4"	1-1/2"	2" x 9" x 0.082" x 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, ie., a 2" x 4" upright shall have a 2" x 3" beam.
8. For minimum girt size read upright size as a beam and purlin size is minimum girt size. (i.e. 2" x 9" x 0.072" x 0.224" s.m.b. w/ 2" x 6" x 0.050 x 0.120" s.m.b. upright requires a 2" x 3" x 0.045" girt / chair rail.)

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