

DATE 04/11/2007

Columbia County Building Permit**PERMIT**

This Permit Expires One Year From the Date of Issue

000025717

APPLICANT DEDE MCINTOSHPHONE 754-8678ADDRESS 757 SW SR 247RIVE

LAKE CITY

FL 32025OWNER WILLIAM & JANICE DAUGHERTYPHONE 752-4072ADDRESS 210 NW KISSIMMEE WAY

LAKE CITY

FL 32055CONTRACTOR MICHAEL DELAHOZPHONE 754-8678LOCATION OF PROPERTY 41N, TL ON SUWANNEE VALLEY RD, TL ON KISSIMMEE WAY, 1ST
DRIVE ON RIGHTTYPE DEVELOPMENT POOL ENCLOSURE ESTIMATED COST OF CONSTRUCTION 5249.00HEATED 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 25.00NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO. PARCEL ID 25-2S-15-00093-009SUBDIVISION LOT BLOCK PHASE UNIT 0 TOTAL ACRES

SCC056689

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

EXISTING

X07-146

BK

JH

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: NOC ON FILECheck # or Cash 3358**FOR BUILDING & ZONING DEPARTMENT ONLY**

(footer/Slab)

Temporary Power Foundation Monolithic
date/app. by date/app. by date/app. byUnder slab rough-in plumbing Slab Sheathing/Nailing
date/app. by date/app. by date/app. byFraming Rough-in plumbing above slab and below wood floor
date/app. by date/app. byElectrical rough-in Heat & Air Duct Peri. beam (Lintel)
date/app. by date/app. by date/app. byPermanent power C.O. Final Culvert
date/app. by date/app. by date/app. byM/H tie downs, blocking, electricity and plumbing Pool
date/app. by date/app. byReconnection Pump pole Utility Pole
date/app. by date/app. by date/app. byM/H Pole Travel Trailer Re-roof
date/app. by date/app. by date/app. byBUILDING PERMIT FEE \$ 30.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 105.00INSPECTORS 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.

Columbia County Building Permit Application

left message
4/11/07

For Office Use Only Application # 0704-03 Date Received 4-2-07 By LM Permit # 25717

Application Approved by - Zoning Official BLK Date 10.04.07 Plans Examiner OK 2711 Date 4-2-07

Flood Zone Apia Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments Accessory Use

☒ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☒ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Robert McIntosh Fax 386-755-1751

Address 289 McCarinth Dr Lake City FL 32055 Phone 386-754-8678

Owners Name William Daugherty Phone 752-4072

911 Address 210 NW Kissimmee Way Lake City FL 32055

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 Lawrence E Bennett PO Box 214368 S. Daytona FL

Mortgage Lenders Name & Address N/A

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

Property ID Number 25-28-15-00093-009 Estimated Cost of Construction 5249

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

Driving Directions 41N, Turn L on Suwannee Valley Rd, Turn L on Kissimmee Way, 1st Drive on Right

Type of Construction Pool Enclosure Number of Existing Dwellings on Property 1

Total Acreage 7.480 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 553' Side 284' Side 93'6" Rear 47'6"

Total Building Height 14' 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

Contractors License Number 22 056689

Competency Card Number _____

NOTARY STAMP/SEAL

Nadean G.S. McIntosh

Commission # DD371494

Expires November 14, 2008

Bonded Troy Fain - Insurance, Inc. 808-365-7919

Notary Signature

(Revised Sept. 20'

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 25-25-15E-00093-009 HX

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

E 1/2 of NW 1/4, Ex Rd R/W along N side & Ex W 3016.80 ft & Ex S 390 ft
ORR 690-30, PROB # 00-10-CF ORR 895-1664 Thru 1671, DC 895-1666
917-272, 919-883
210 NW Kissimmee Way Lake City, FL 32055

2. General description of improvement: Pool Enclosure

3. Owner Name & Address William Daugherty 210 NW Kissimmee Way
Lake City FL 32055 Interest in Property owner

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

5. Contractor Name Mike Delatiz 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: 2007007382 Date: 04/02/2007 Time: 11:20

7. Lender Name n/a _____
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 n/a Phone Number _____
Address _____

9. In addition to himself/herself the owner designates Florida Pool Enclosures, Inc of
289 NW Corinth Dr LC 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.

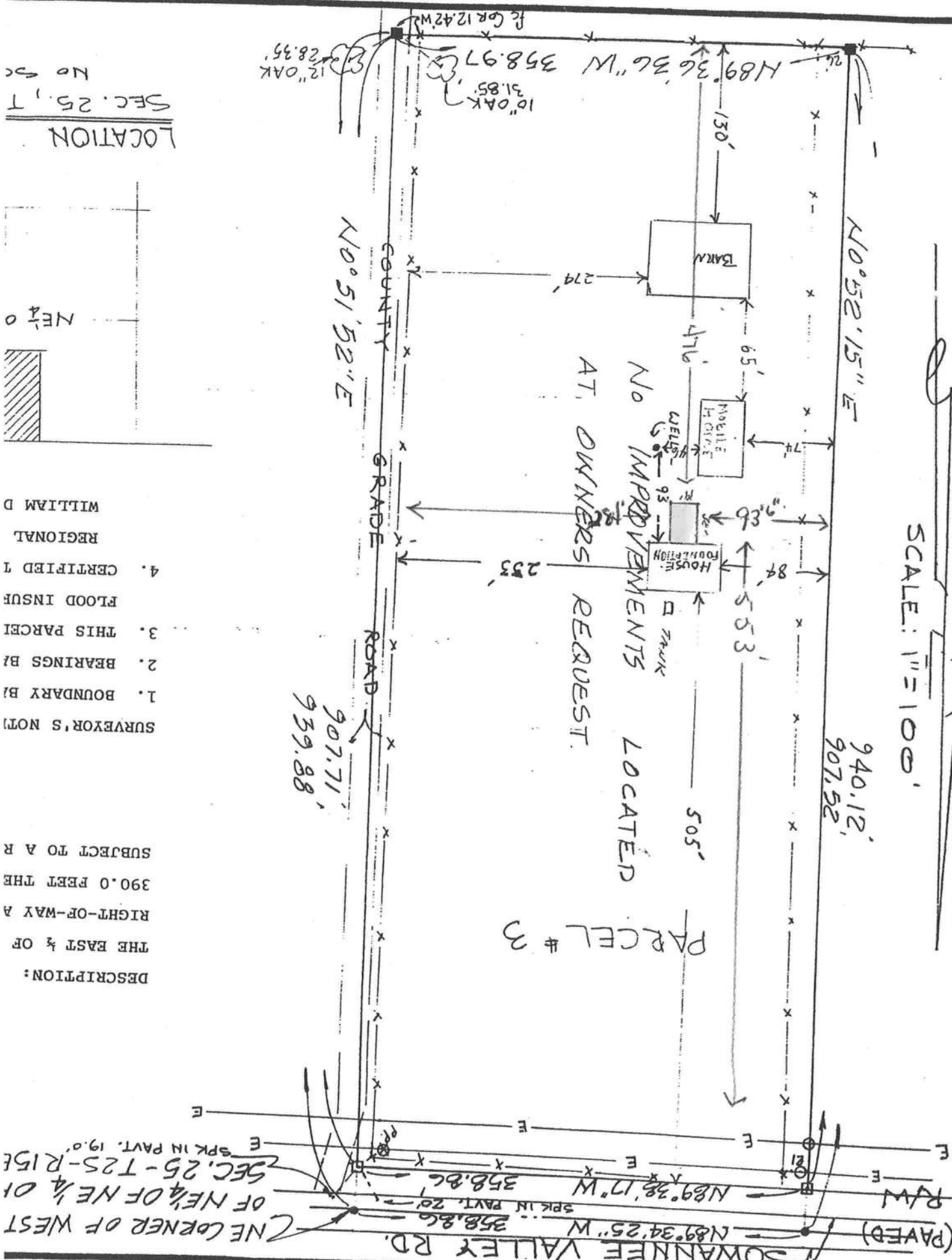

Signature of Owner

Sworn to (or affirmed) and subscribed before
day of 11th of March, 2007

NOTARY STAMP/SEAL  Nadean G.S. McIntosh
Commission # DD371494
Expires November 14, 2008
Bonded Troy Fain - Insurance, Inc. 800-365-7019


Signature of Notary

SCALE: 1" = 100'



LOCATION
SEC. 25, T
No 50

NE 1/4

DESCRIPTION:
THE EAST 1/2 OF
RIGHT-OF-WAY A
390.0 FEET THE
SUBJECT TO A R
SURVEYOR'S NOT
1. BOUNDARY B
2. BEARINGS B
3. THIS PARCEL
FLOOD INSUR
4. CERTIFIED
REGIONAL
WILLIAM D

SWANNEE VALLEY RD.
(PAVED)
N 89° 34' 25" W 358.86'
N 89° 38' 17" W 358.86'
SEC. 25 - T2S - R15E
OF NE 1/4 OF NE 1/4
SPK IN PAVT. 19.0'
SPK IN PAVT. 20'NE CORNER OF WEST

003007

BOUNDARY SURVEY IN SECTION 25, TOWNSHIP 2 SOUTH
RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA.

LEGEND:

1. ■ = CONCRETE MONUMENT FOUND.
2. □ = CONCRETE MONUMENT, P.L.S. NO. 1079, SET.
3. ⊗ = POWER POLE.

15'-
5'-

237' 517

1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 2 SOUTH, RANGE 15 EAST, LESS ROAD
THE NORTH SIDE THEREOF AND LESS THE WEST 306.8 FEET, AND LESS THE SOUTH
COLUMBIA COUNTY, FLORIDA. CONTAINING 7.48 ACRES MORE OR LESS.
RIGHT-OF-WAY ALONG THE EAST SIDE THEREOF.

ON MONUMENTATION FOUND AND SECTION BREAKDOWN BY THIS OFFICE.
ON PREVIOUS SURVEY INFORMATION, AND DEEDS OF RECORD.
IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER
RATE MAP, DATED 6 JANUARY 1988, COMMUNITY PANEL NO. 120070 0105B.

3 COMPANY

FREY

24 19
25 30

SURVEYOR'S CERTIFICATION:

I, THE UNDERSIGNED REGISTERED LAND SURVEYOR, HEREBY CERTIFY
THAT A SURVEY OF THE ABOVE DESCRIBED PROPERTY WAS MADE UNDER
MY DIRECTION AND THAT THIS IS A TRUE AND CORRECT REPRESENTATION
THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THERE ARE
NO ENCROACHMENTS EXCEPT AS SHOWN AND THAT THE IMPROVEMENTS ARE
AS INDICATED HEREON. THIS SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA
(CHAPTER 21 HH-6 F.A.C.)

LAUREN E. BRITT, P.L.S.
FLA. CERT. NO. 1079

ETCH
R15E

DATE: 6-14-89
FB: 96 PG: 73
FOR: LOWERY/DAUGHTREY

BRITT SURVEYING
1426 W. DUVAL STREET
LAKE CITY, FLORIDA
32055
(904) 752-7163

Columbia County Property Appraiser

DB Last Updated: 3/8/2007

2007 Proposed Values

Parcel: 25-2S-15-00093-009 HX

[Tax Record](#)[Property Card](#)[Interactive GIS Map](#)[Print](#)**Owner & Property Info**

<< Prev

Search Result: 6 of 6

Owner's Name	DAUGHERTY WILLIAM F JR		
Site Address	KISSIMMEE		
Mailing Address	P O BX 478 WHITE SPRINGS, FL 320960478		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	25215.00	Tax District	3
UD Codes	MKTA03	Market Area	03
Total Land Area	7.480 ACRES		
Description	E1/2 OF NW1/4 OF NE1/4, EX RD R/W ALONG N SIDE & EX W 306.80 FT & EX S 390 FT. ORB 690-30, PROB #00-10-CP ORB 895-1664 THRU 1671, DC 895-1666, 917-272, 919-883,		

GIS Aerial**Property & Assessment Values**

Mkt Land Value	cnt: (1)	\$41,140.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (2)	\$199,326.00
XFOB Value	cnt: (1)	\$16,138.00
Total Appraised Value		\$256,604.00

Just Value		\$256,604.00
Class Value		\$0.00
Assessed Value		\$239,242.00
Exempt Value	(code: HX)	\$25,000.00
Total Taxable Value		\$214,242.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
12/26/2000	917/272	WD	I	U	01	\$100.00
6/19/1989	690/30	WD	V	Q		\$18,000.00
6/14/1989	690/31	WD	V	Q		\$15,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	BARNS (008600)	1989	Mod Metal (25)	2400	2400	\$30,013.00
3	SINGLE FAM (000100)	2006	Common BRK (19)	1981	2879	\$169,313.00
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	2006	\$16,138.00	6455.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	7.480 AC	1.00/1.00/1.00/1.00	\$5,500.00	\$41,140.00

Columbia County Property Appraiser

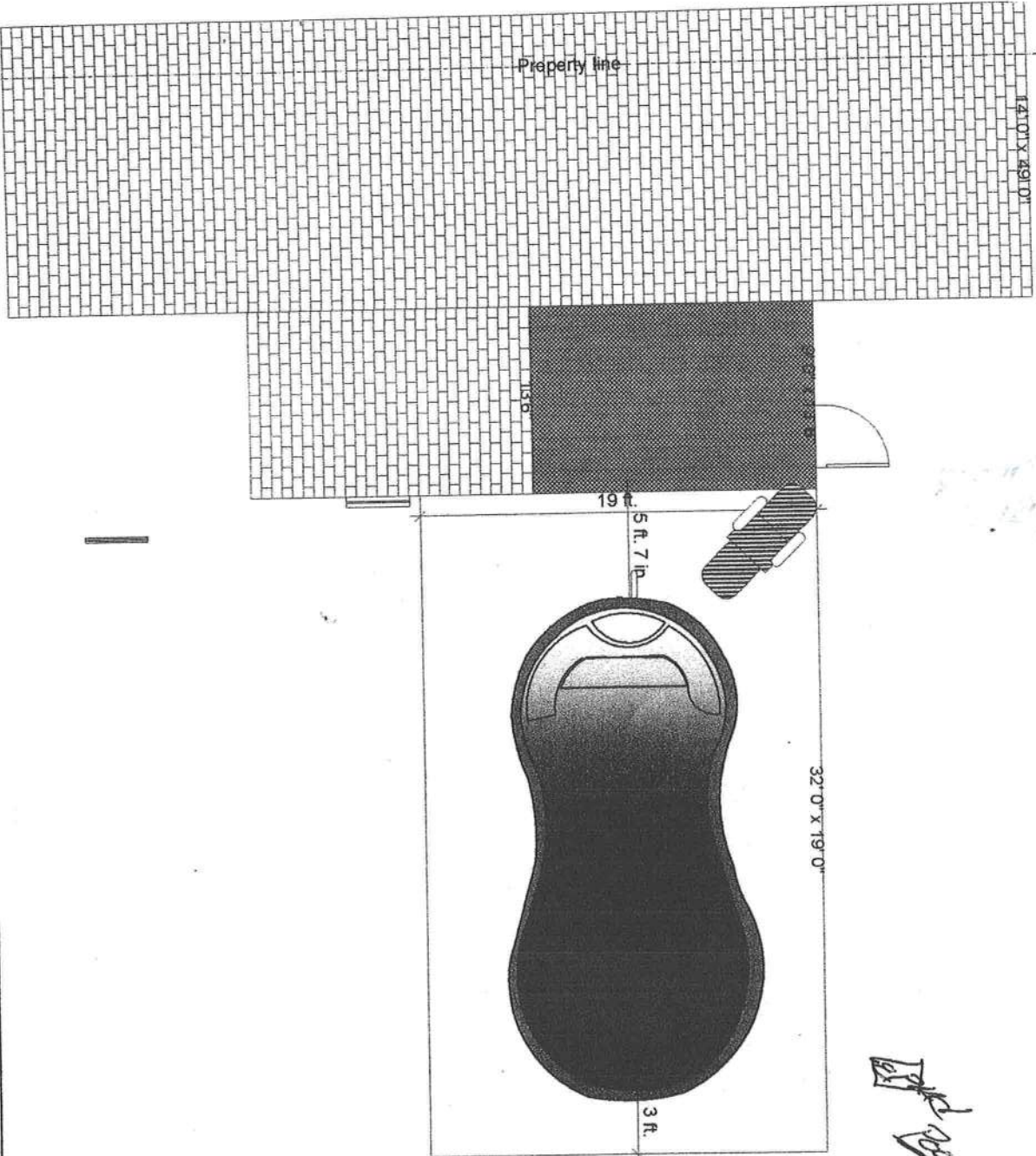
DB Last Updated: 3/8/2007

<< Prev

6 of 6



Property line



Ray Lussier



FILE COPY

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:

Job Specifications	
Pool Area	0
Pool Perimeter	0
Shallow Depth	0
Deep Depth	0
Spa Area	0
Spa Perimeter	0
Face Tile	0
Coping	0
Deck Area	0
Deck Perimeter	0
Patio Area	0
Patio Perimeter	0
Pool to Equip	0
Spa to Equip	0

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.

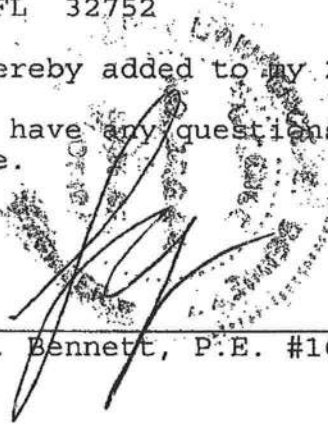
Our authorization is based on a January to January basis regardless of the edition of the manual. This authorization also applies to contractor master file drawings, "ONE PERMIT ONLY" drawings or any "site specific" drawings that I may furnish the contractor.

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

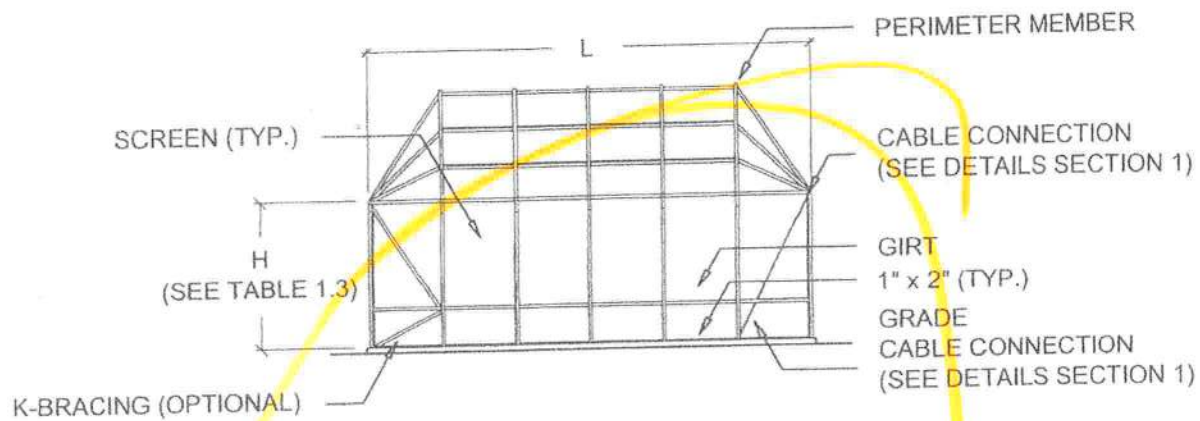
They are hereby added to my 2007 MASTERFILE LIST

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

Sincerely,

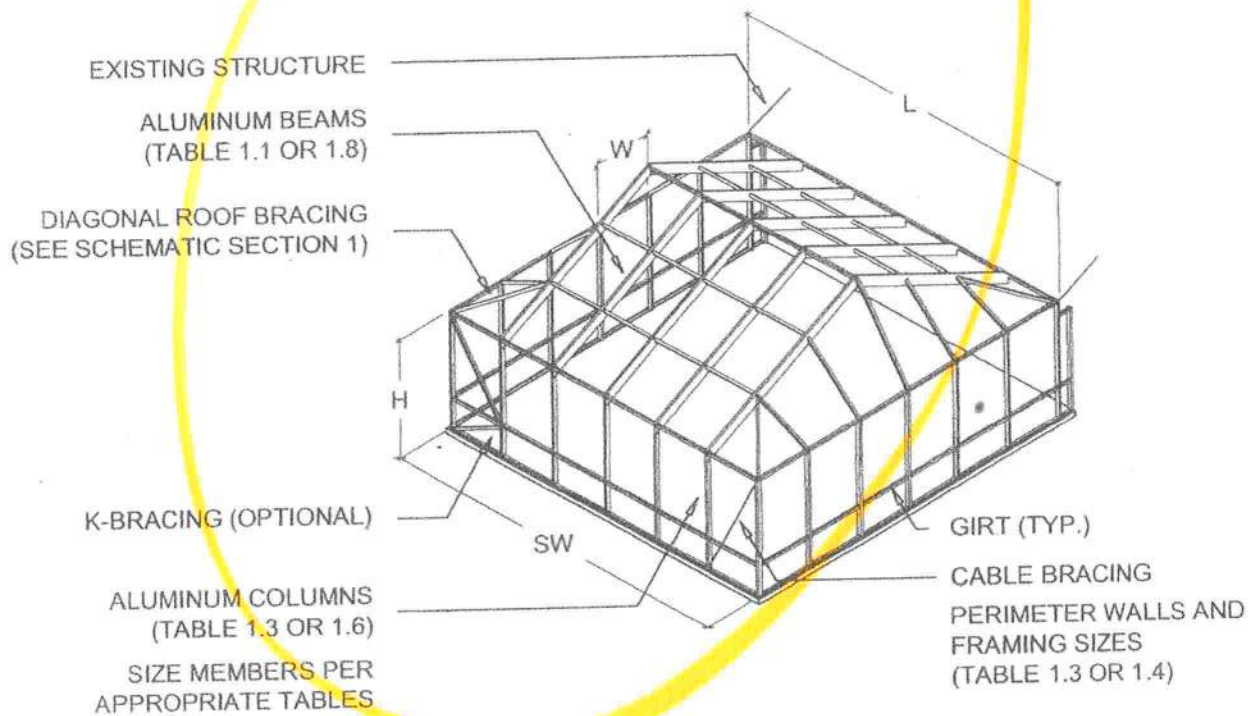


Lawrence E. Bennett, P.E. #16644



TYPICAL MODIFIED HIP ROOF - ELEVATION

SCALE: N.T.S.



TYPICAL MODIFIED HIP ROOF - ISOMETRIC

SCALE: N.T.S.

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

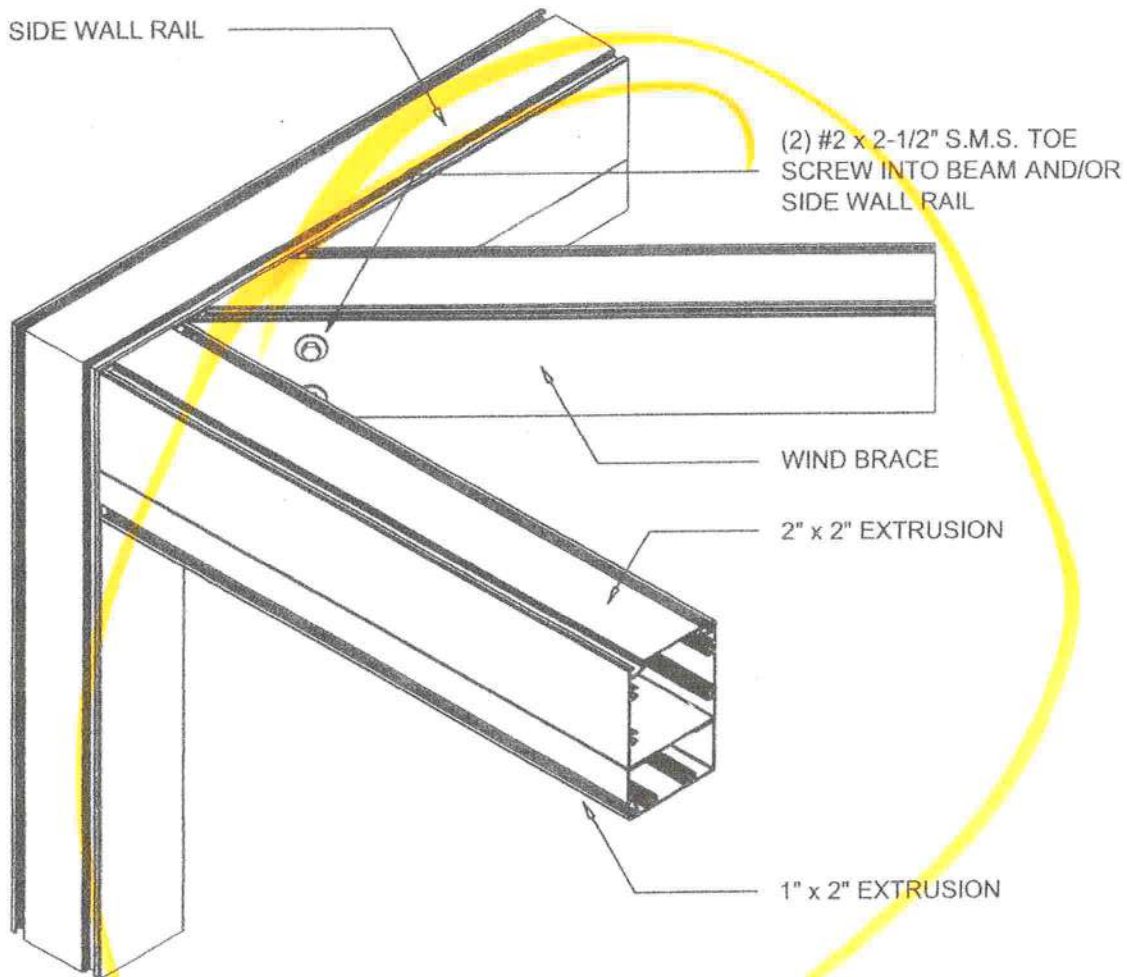
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

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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.

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

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
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PANELS / ELEMENTS
UNBRACED BY HOST
STRUCTURE TO BE BRACED
BY DIAGONALS IN
PERIMETER PANELS (MIN.)

ELEMENTS BRACED BY HOST
STRUCTURE CONNECTION 

BEAMS AND / OR PURLINS

 ELEMENTS BRACED BY
DIAGONALS

--- ALTERNATE BRACING
PATTERN, CORNER BRACES
STILL REQUIRED

CABLE OR
K-BRACING
(IN WALLS)

BEAMS OR
PURLINS

CABLE OR
K-BRACING
(IN WALLS)

CABLE OR
K-BRACING
(IN WALLS)

EACH DIAGONAL TO BE
FASTENED EACH END W/ (2)
EACH #10 S.M.S. (MIN.)

2 x 2 (MIN) ROOF DIAGONAL,
MEET WALL AT WALL BRACING
AT CORNERS (TYP.)

(POOL ENCLOSURE SCREEN ROOF MAY BE FLAT, GABLE, MANSARD, DOME, OR HIP)

POOL ENCLOSURE DIAGONAL BRACING - SCHEMATIC PLAN VIEW

SCALE: 3/8" = 1'-0"

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

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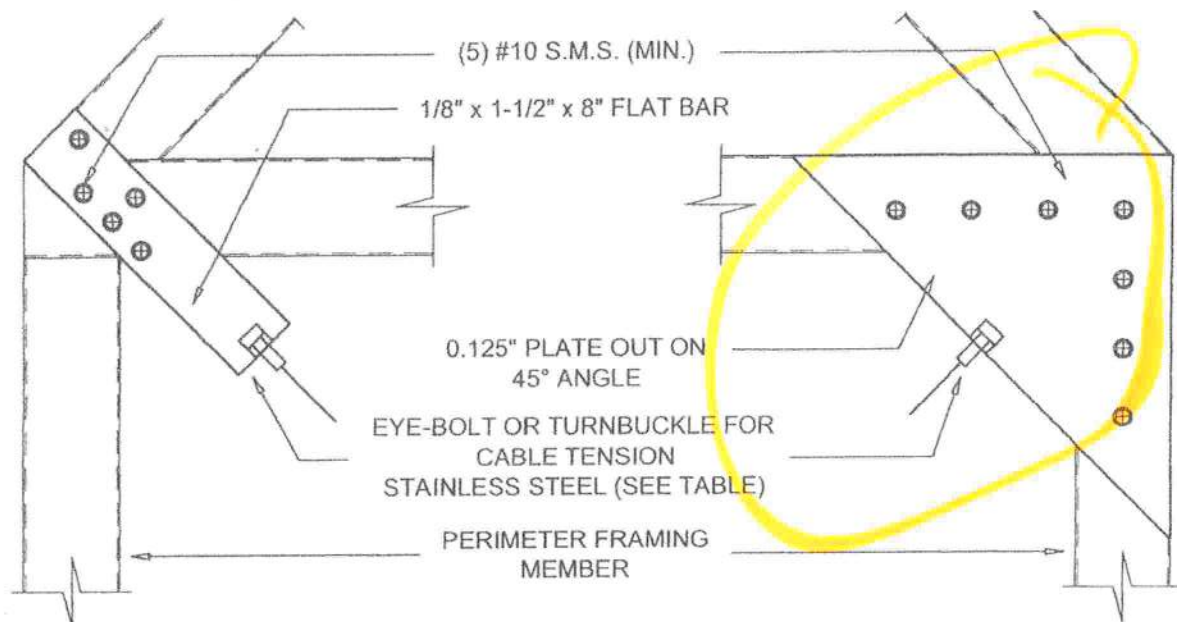
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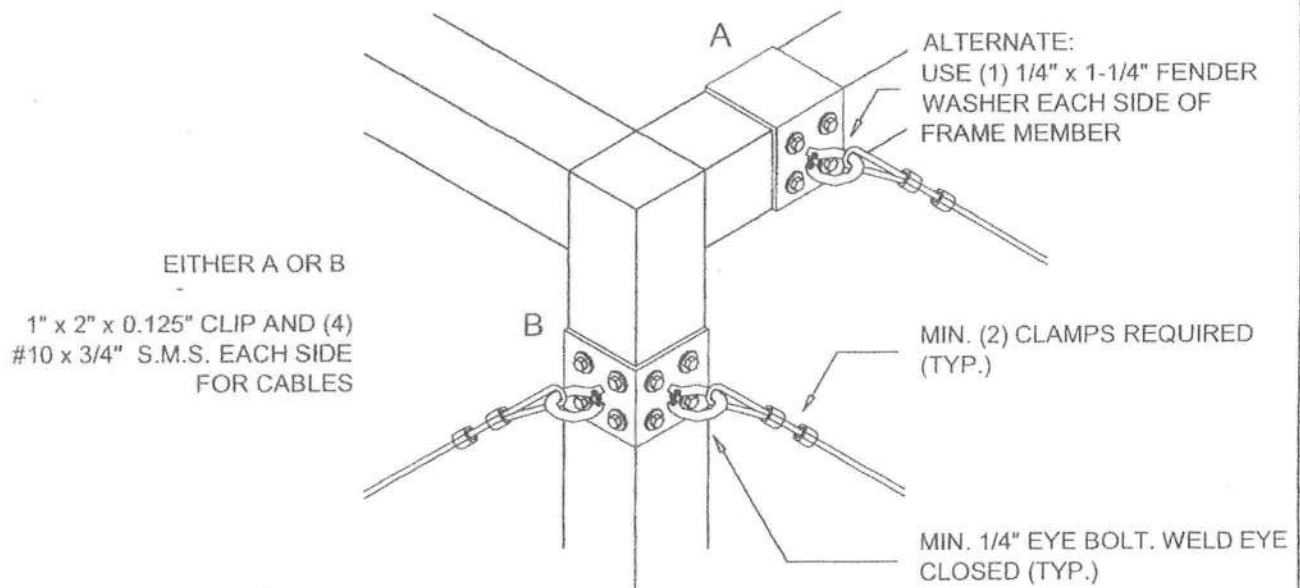
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TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1

SCALE: 3" = 1'-0"



ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A

SCALE: 3" = 1'-0"

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

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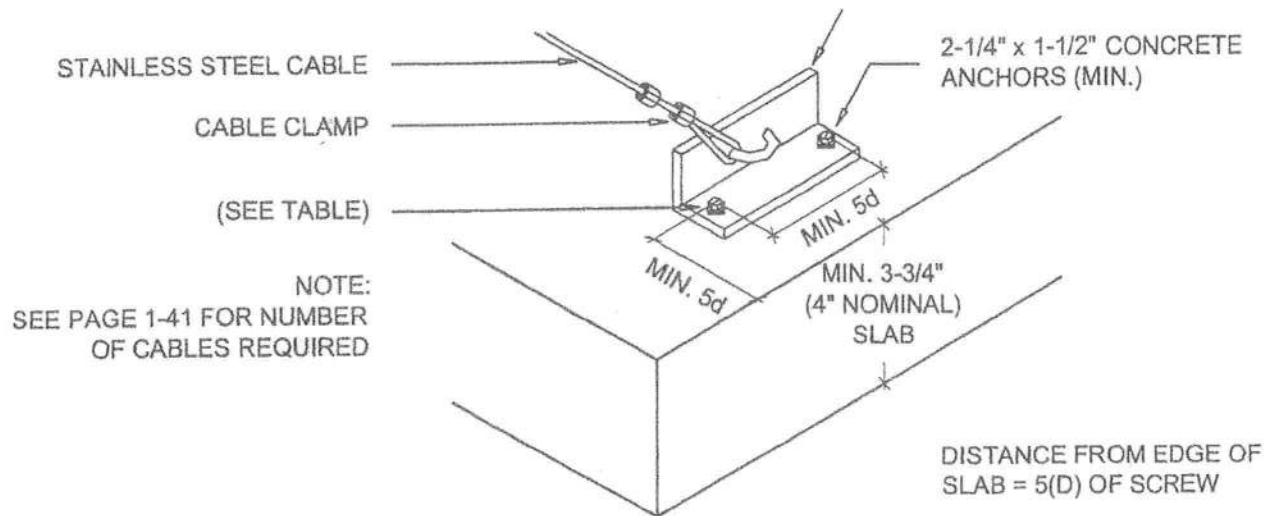
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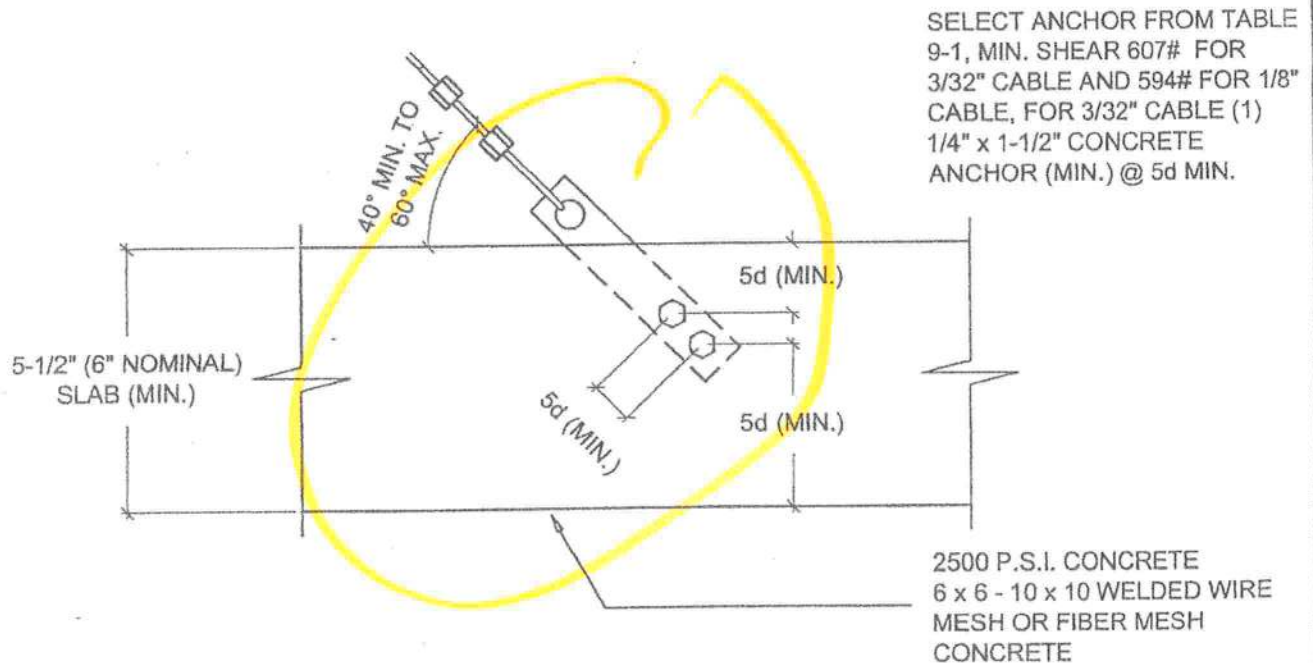
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ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 3" = 1'-0"



ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2C

SCALE: 3" = 1'-0"

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CLIPS OR #10 SCREWS
THROUGH PURLINS INTO
SCREW BOSSES

FRONT AND SIDE BOTTOM
RAILS ATTACHED TO
CONCRETE W/ 1/4" x 2-1/4"
CONCRETE / MASONRY
ANCHORS @ 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"

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

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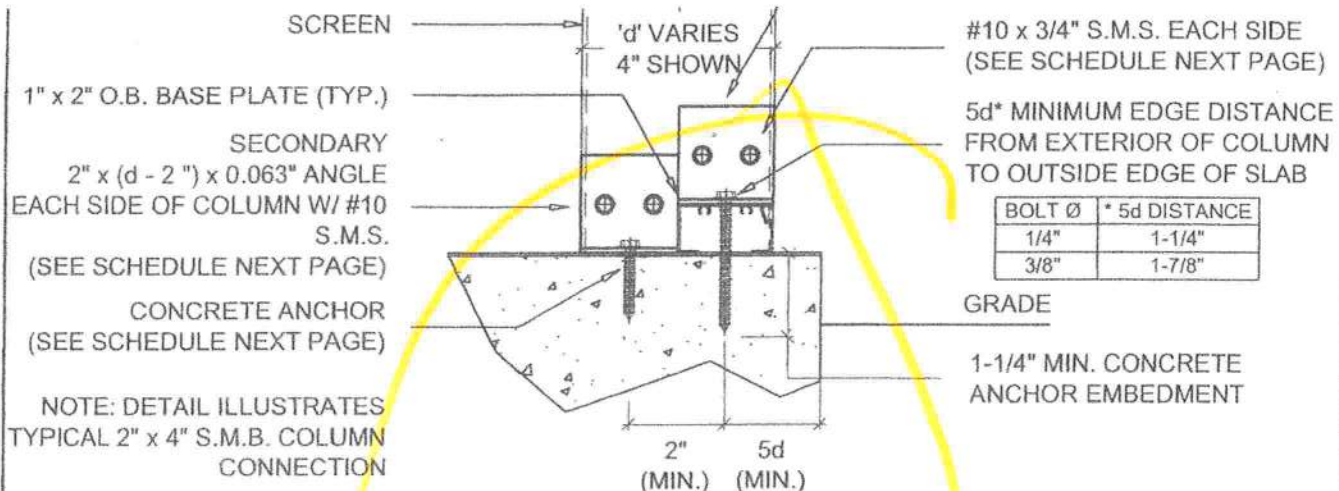
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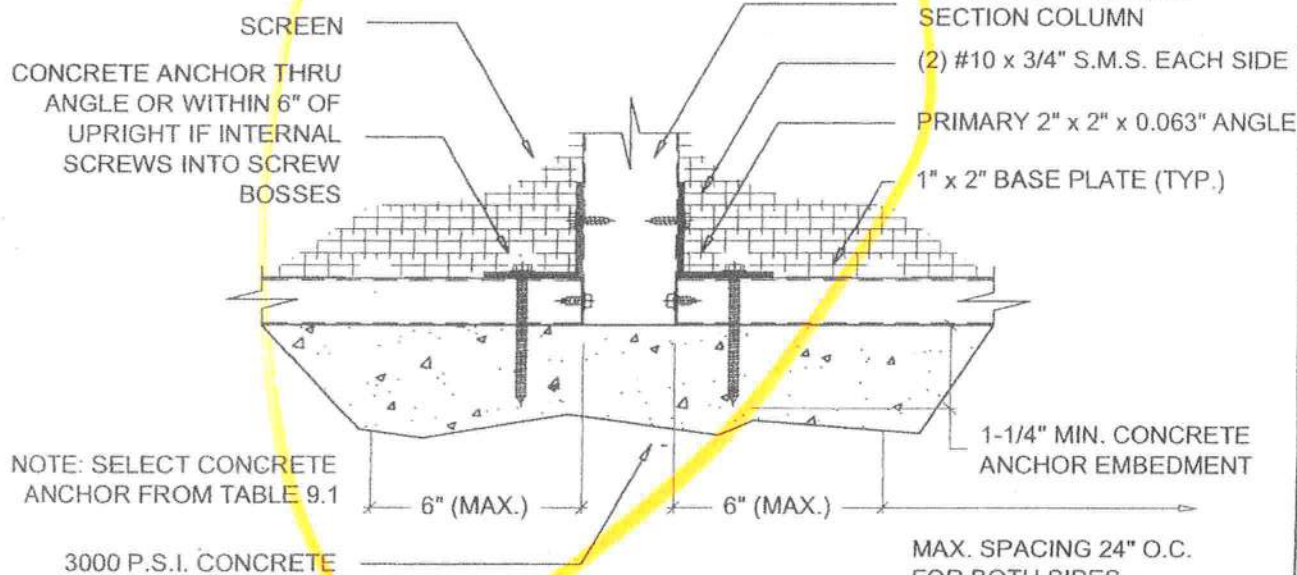
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SIDE VIEW



FRONT VIEW

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.

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

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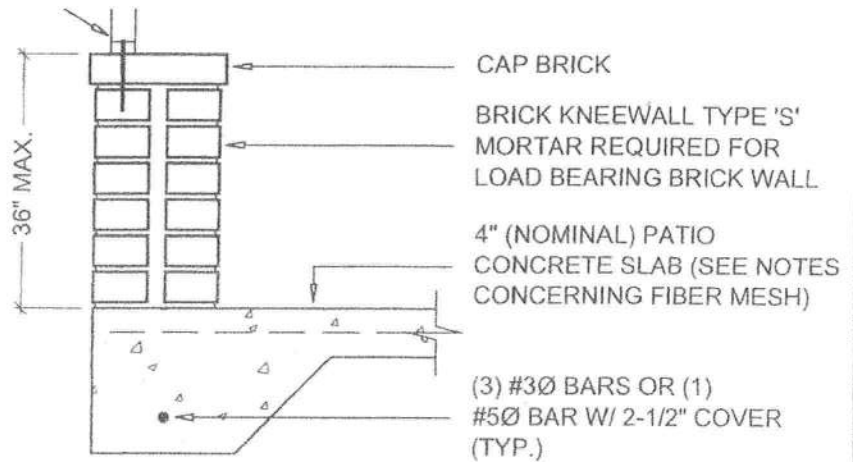
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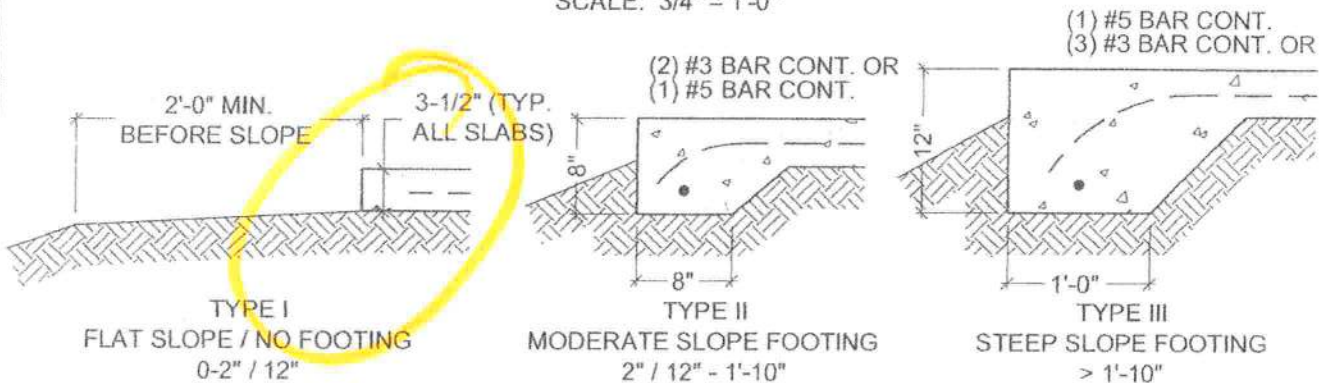
COURSE OF BRICKS

ALTERNATE CONNECTION OF
SCREENED ENCLOSURE FOR
BRICK OR OTHER NON-
STRUCTURAL KNEE WALL
1" WIDE x 0.063" THICK STRAP
@ EACH POST FROM POST TO
FOOTING W/ (2) #10 x 3/4"
S.M.S. STRAP TO POST AND
(1) 1/4" x 1-3/4" CONCRETE
ANCHOR TO SLAB OR
FOOTING



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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PAGE

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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 9" 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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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.
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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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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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, ie., 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".

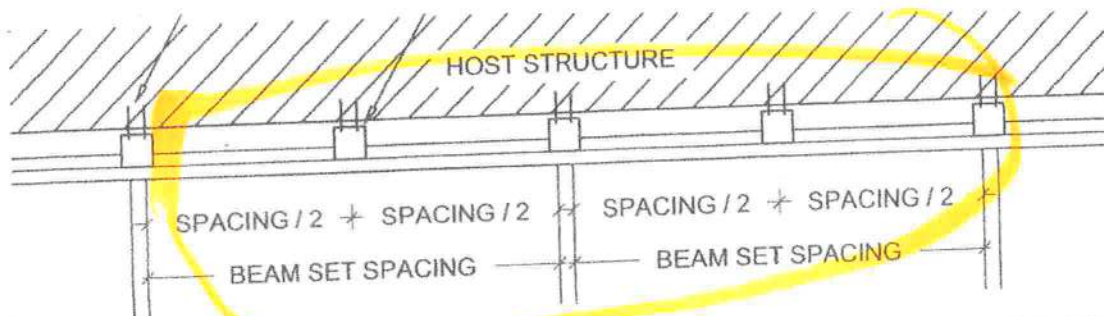
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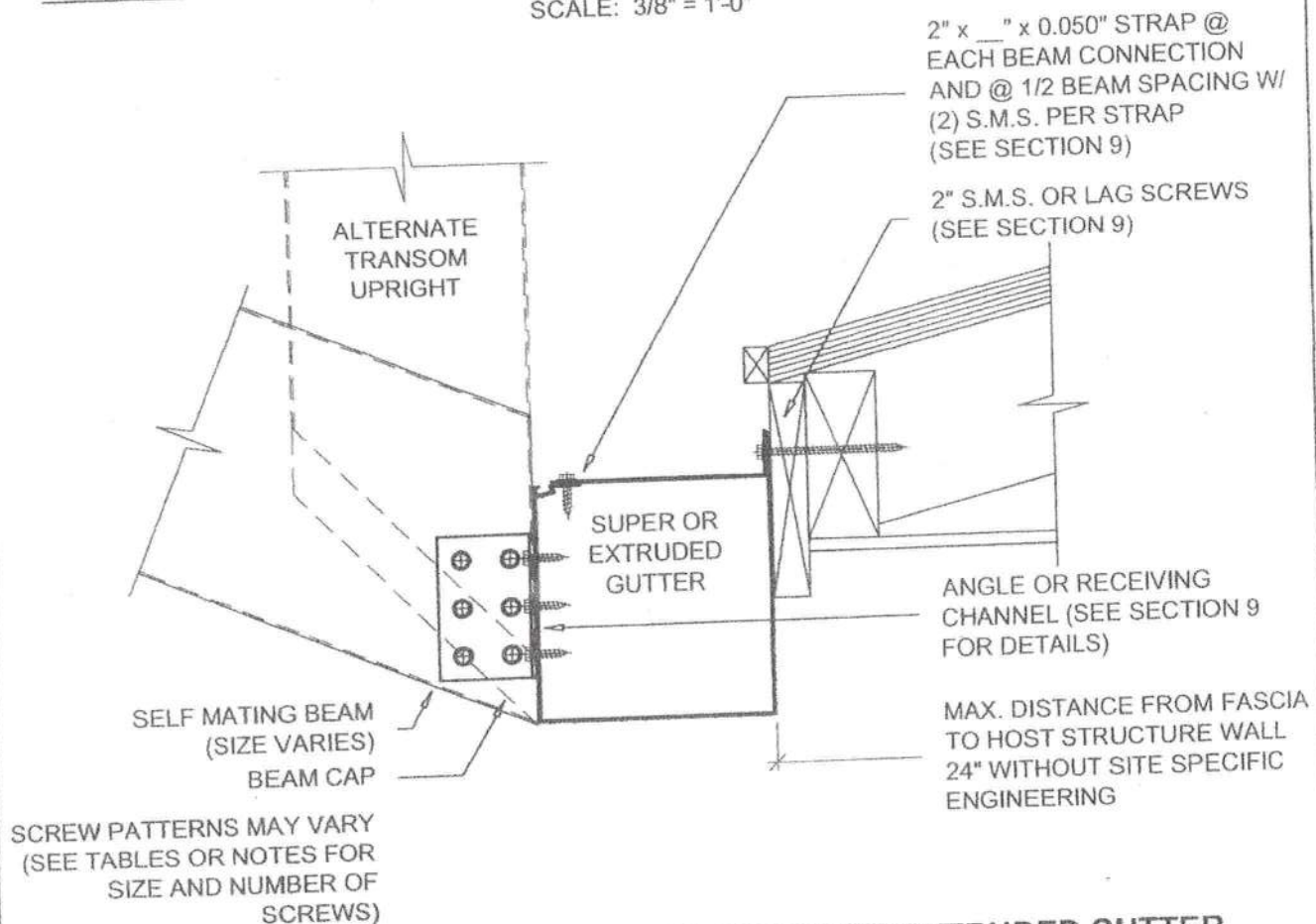
TELEPHONE: (386) 767-4774

FAX: (386) 767-6556



STRAP LOCATION FOR SUPER OR EXTRUDED GUTTER REINFORCEMENT

SCALE: 3/8" = 1'-0"



SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 3" = 1'-0"

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

CIVIL ENGINEER - DEVELOPMENT CONSULTANT

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