

DATE 02/20/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025554

APPLICANT LARRY COLE

PHONE 352-472-6850

ADDRESS 25370 NW 8TH PLACE

NEWBERRY

FL 32669

OWNER DAVID & MELISSA WATSON

PHONE 386.454.1999

ADDRESS 103 SW BUCK COURT

FT. WHITE

FL 32038

CONTRACTOR BONNIE JORDAN

PHONE 352-472-6850

LOCATION OF PROPERTY

47S, TL ON 27, TL ON BENJAIN ROAD, TL ON BUCK COURT,

5TH LOT ON RIGHT

TYPE DEVELOPMENT POOL ENCLOSURE

ESTIMATED COST OF CONSTRUCTION

7059.00

HEATED FLOOR AREA

TOTAL AREA

HEIGHT

STORIES

FOUNDATION

WALLS

ROOF PITCH

FLOOR

LAND USE & ZONING

A-3

MAX. HEIGHT

35

Minimum Set Back Requirements:

STREET-FRONT

30.00

REAR

25.00

SIDE

25.00

NO. EX.D.U.

1

FLOOD ZONE

NA

DEVELOPMENT PERMIT NO.

PARCEL ID 20-7S-17-10027-127

SUBDIVISION

LOT BLOCK

PHASE

UNIT

TOTAL ACRES

10.00

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

EXISTING

X07-081

CS

JH

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: NOC ON FILE, REPLACES PERMIT 25400 PULLED AS OWNER BUILDER 1/12/07 For the enclosure

Check # or Cash

1258

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power

date/app. by

Foundation

Monolithic

(footer/Slab)

Under slab rough-in plumbing

date/app. by

Slab

date/app. by

date/app. by

Under slab rough-in plumbing

date/app. by

Slab

Sheathing/Nailing

date/app. by

Framing

date/app. by

Rough-in plumbing above slab and below wood floor

date/app. by

Columbia County Building Permit Application

ck#1258

Revised 9-23-01

For Office Use Only Application # 0702-41 Date Received 2/16/07 By GF Permit # 25554
 Application Approved by - Zoning Official [Signature] Date 2/20/07 Plans Examiner OK JTH Date 2-16-07
 Flood Zone N/A Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments _____

Applicants Name Larry Cole Phone 352-472-6850
 Address 25370 NW 8th Place Newberry, FL 32669
 Owners Name David Watson Phone 318-0899
 911 Address 103 SW Buck Court Ft White FL 32038
 Contractors Name Bonnie Jordan, Timberlake Alm. Const. Phone 352-472-6850
 Address 25370 NW 8th Place Newberry FL 32669
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address N/A
 Mortgage Lenders Name & Address N/A
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 80-75-17-10037-127 Estimated Cost of Construction 2,059⁰⁰
 Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions US 27 South To Benjamin Left SW Amazon Glu House
At End of Road.

Type of Construction Pool Enclosure Number of Existing Dwellings on Property 2
 Total Acreage 10 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Driveway
 Actual Distance of Structure from Property Lines - Front 108' Side 26' Side 261' Rear 1010'
 Total Building Height N/A Number of Stories N/A Heated Floor Area N/A Roof Pitch N/A

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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.

[Signature]
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 14 day of Feb 20 07.

Personally known _____ or Produced Identification Drivers License Notary Signature

[Signature]
 Contractor Signature
 Contractors License Number SCC056711
 Competency Card Number _____
 NOTARY STAMP

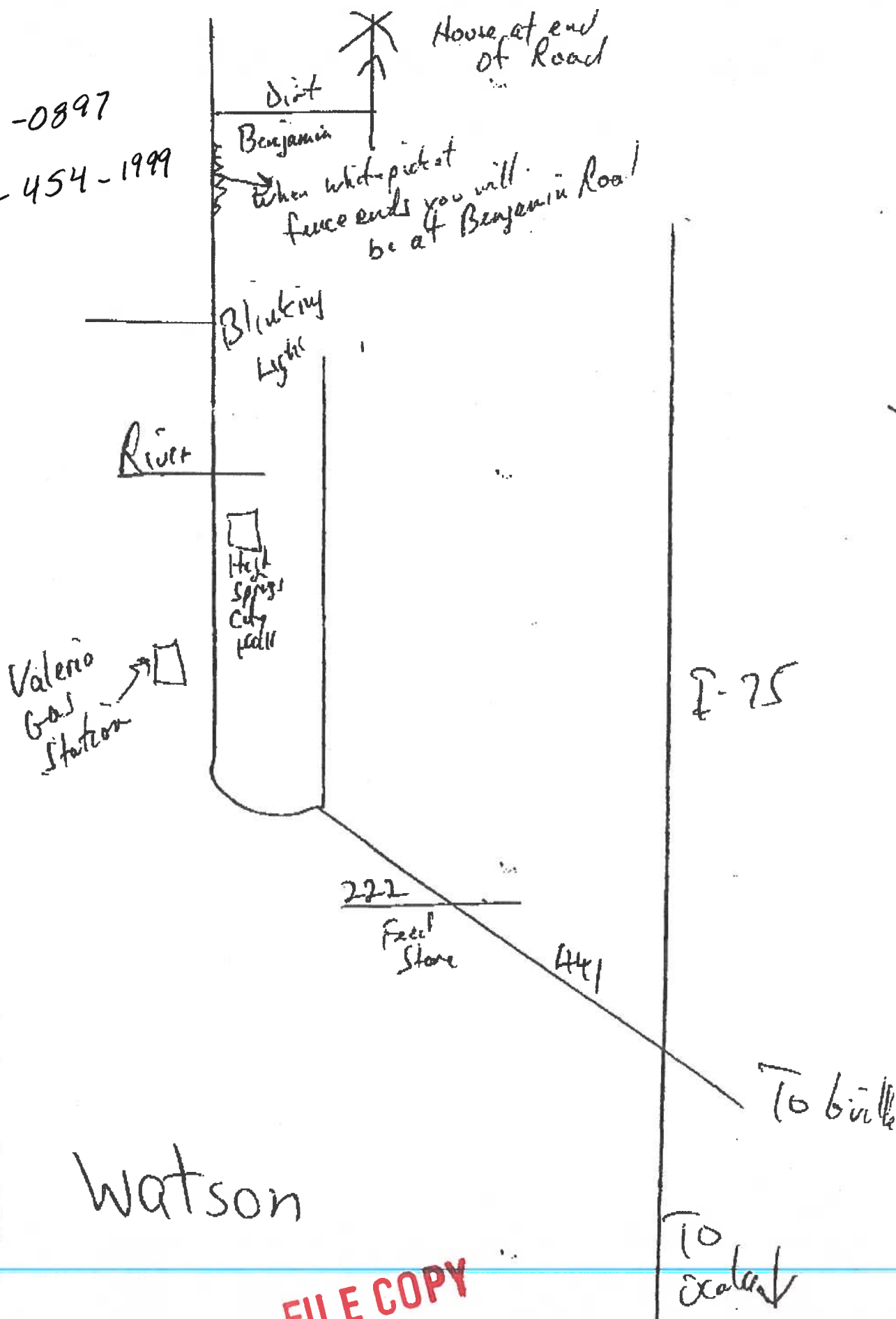


CRAIG C. TIMBERLAKE
 MY COMMISSION # DD 289931
 EXPIRES: April 12, 2008
 Bonded Thru Notary Public Underwriters

Timberlake (Larry) 2-20-07

H 318-0897

W 386-454-1999



FILE COPY

RONNIE BRANNON
COLUMBIA COUNTY TAX COLLECTOR

NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS
THIRD INSTALLMENT (DEC) 2006 129741.0000

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R10027-127	999	37,253		37,253	003

WATSON DAVID F JR & MELISSA H
103 SW BUCK CT
FT WHITE FL 32038

20-7S-17 5000.0200 10.06 Acres
COMM NW COR OF SW 1/4 OF NW 1/4,
RUN E 87.45 FT, S 370.28 FT TO
POB, CONT S 354.70 FT, E
1235.48 FT, N 354.70 FT, W
See Tax Roll For Extra Legal

AD VALOREM TAXES				
TAXING AUTHORITY	MILLAGE RATE	EXEMPTION AMOUNT	TAXABLE VALUE	TAXES LEVIED
C001 S002	8.7260		37,253	325.07
BOARD OF COUNTY COMMISS			37,253	
COLUMBIA COUNTY SCHOOL			37,253	
DISCRETIONARY			37,253	28.31
LOCAL	0.7600		37,253	185.33
CAPITAL OUTLAY	4.9750		37,253	74.51
SUWANNEE RIVER WATER M	2.0000		37,253	18.31
SHANDS AT LAKE SHORE	0.4914		37,253	83.82
INDUSTRIAL DEVELOPEMEN	2.2500		37,253	5.14
	0.1380		37,253	
WSR HLSH IIDA				
TOTAL MILLAGE				19.3404
				AD VALOREM TAXES
				720.49

NON-AD VALOREM ASSESSMENTS		
LEVYING AUTHORITY	RATE	AMOUNT
FFIR GGAR		129.56 201.00
FIRE ASSESSMENTS		
SOLID WASTE - ANNUAL		
NON-AD VALOREM ASSESSMENTS		330.56

Please
Retain
this
Portion
for your
Records

COMBINED TAXES AND ASSESSMENTS			
2006 GROSS	DISCOUNT	FEES	If Paid By
1,051.05	183.27	5.50	177.77
		0.00	Jan 31 2007
See reverse side for important information			

Date: 2/15/07

ACORN CORPORATION, INC.

Timberlake Aluminum Construction, Inc.

25370 NW 8TH PLACE
NEWBERRY, FL 32669
(352) 472-6850
FAX (352) 472-6855

THIS LETTER AUTHORIZES Larry Lake TO OBTAIN PERMITS
AND SIGN ALL APPLICABLE FORMS AND AFFADAVITS NECESSARY FOR
LICENSES FOR LICENSE NUMBER #SCCO56711.

Bonnie Jordan
BONNIE JORDAN
DATE 1-17-07

SWORN TO AND SUBSCRIBED BEFORE ME THIS 17 DAY OF
JANUARY, 2007

Craig C. Timberlake
NOTARY PUBLIC





STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

JORDAN, BONNIE L
TIMBERLAKE ALUMINUM CONSTRUCTION INC
P O BOX 671
INVERNESS FL 34451



STATE OF FLORIDA

AC# 2762920

DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

SCC056711 08/29/06 060062507

CERTIFIED SPECIALTY CONTRACTOR
JORDAN, BONNIE L
TIMBERLAKE ALUMINUM CONSTRUCTION

IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date: AUG 31, 2008 L06082904272

DETACH HERE

2762920

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L06082904272

DATE	BATCH NUMBER	LICENSE NBR
08/29/2006	060062507	SCC056711

The SPECIALTY STRUCTURE CONTRACTOR
Named below is CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2008

JORDAN, BONNIE L
TIMBERLAKE ALUMINUM CONSTRUCTION INC
1198 E MCKINLEY ST
HERNANDO FL 34442

JEB BUSH
GOVERNOR

SIMONE MARSTILLER

(For Recorder's use only)

NOTICE OF COMMENCEMENT

Permit No. _____

Key No. _____

STATE OF FLORIDA

COUNTY OF COLUMBIA

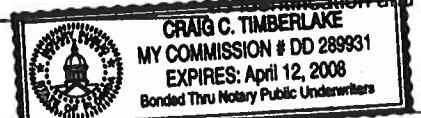
THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement:

1. Description of Property: Parcel No. 20-25-17-10027-127 103 SW Buck CT Ft White FL 32033
(Legal description of the property and street address if available)
2. General Description of Improvement: Pool Enclosure over existing Pool
Concrete Done By Others
3. Owner Information: Name David Watson Address 103 SW Buck Ct.
City Ft White State FL Zip 32038 Interest in Property Owner
Name of Fee Simple Titleholder (if other than owner): N/A
Address N/A City N/A State N/A Zip N/A
4. Contractor Name: Bonnie Jordan Address 25370 NW 8th
City Newberry State FL Zip 32669
5. Surety Name N/A Address N/A City N/A
State N/A Zip N/A Amount of Bond: \$ N/A
6. Lender Name N/A Address N/A
City N/A State N/A Zip N/A
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1) (a) (7), Florida Statutes:
Name N/A Address N/A City N/A
State N/A Zip N/A
8. In addition to himself, Owner designates N/A of N/A to receive a copy of the Lienor's Notice as provided in Section 713.13(1) (b), Florida Statutes.
9. Expiration date of Notice of Commencement (the expiration date is (1) year from the date of recording unless specified):

Signature of Owner: Melissa WatsonPrinted Name of Owner: Melissa WatsonSTATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this Feb 14-07, by Melissa Watson who is () personally known to me or () who produced Drivers License and who () did or () did not take an oath.

Craig C Timberlake
Signature of Notary



Print, Type or Stamp Name of Notary

FILE COPY

Timberlake Aluminum Construction, Inc.

**25370 NW 8TH PLACE
NEWBERRY, FL 32669
(352) 472-6850
1-800-976-9890
FAX (352) 472-6855**

**David Watson
103 S.W. Buck Ct.
Ft. White Fl. 32038**

Sir:

**Inclosed please find a notice of commencement that needs to be signed and
noterized.**

**also, in order to obtain a permit, the county needs to have a copy of some proof of
ownership (ex. deed, tax reciept).**

Thank You for your cooperation;



Larry Cole

Contract 386 454 1999 ^{work}

Timberlake Aluminum Construction, Inc.

Don't clean it - Screen It!

License # SCC056711

Newberry Commercial Park 25370 NW 8th Place Newberry, Florida 32669

Phone (352) 472-6850 • Fax (352) 472-6855 • Toll Free 1 (800) 976-9890

PROPOSAL SUBMITTED TO <u>David Watson</u>	PHONE <u>386 318 0897</u>	DATE <u>11-27-00</u>
STREET <u>103 SW Buck Court</u>	JOB NAME	
CITY, STATE and ZIP CODE <u>Ft White 33037</u>	JOB LOCATION	
SALESMAN	JOB NO.	JOB PHONE

WE HEREBY SUBMIT SPECIFICATIONS AND ESTIMATES FOR:

Pool Enclosure Walls 8 x 46 x 25 width: 8' Lane: wallSuper Gutter yesDownspouts X 2Roof Style Mansard or Hip GableWall Height 9' 8"36" Chair Rail around Perimeter yes36" Doors X 2Frame Color - Bronze or White18/14 Charcoal Screen

We Propose hereby to furnish material and labor - complete in accordance with above specifications for the sum of:

(\$ 7059.⁰⁰), Seven thousand + fifty-nine
0 % at acceptance of Proposal. 100 % at the completion of the job.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from the above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Contractor Agent [Signature]Note: This proposal may be withdrawn by us if not accepted within (30) days.

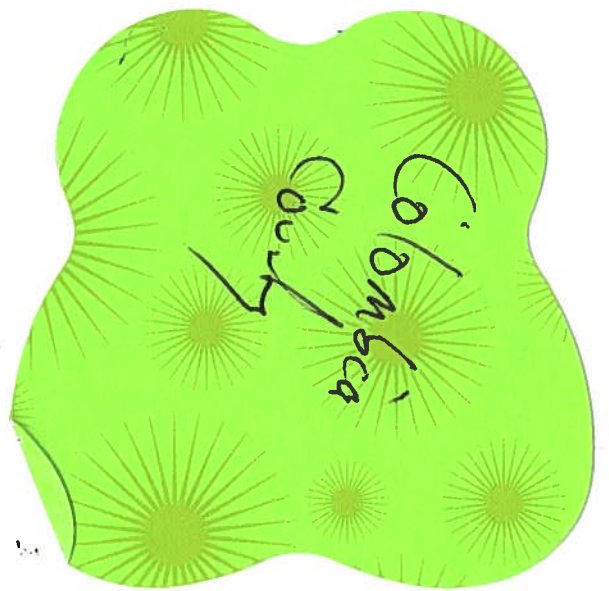
Acceptance of Proposal - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

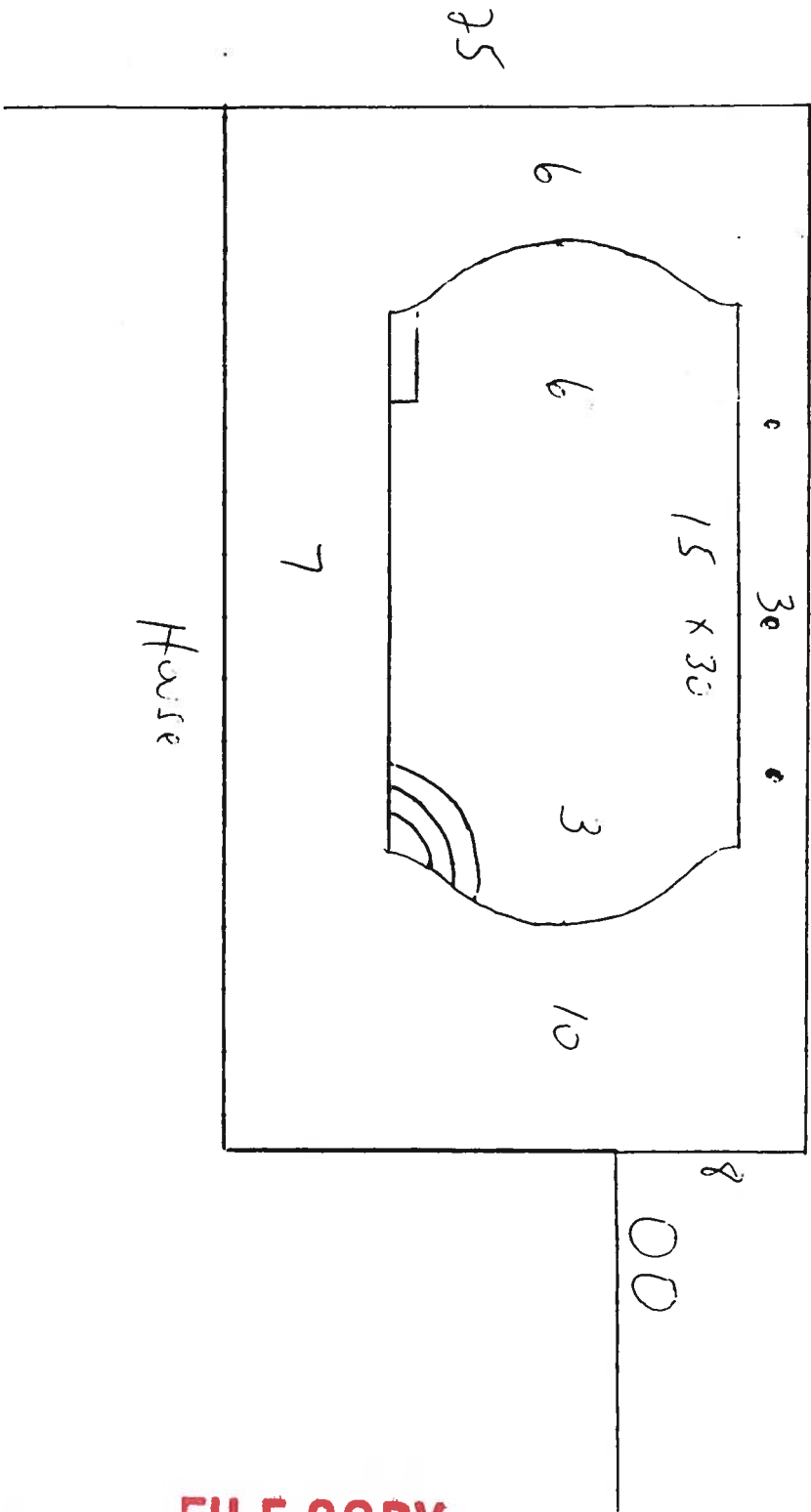
Signature [Signature]

Signature _____

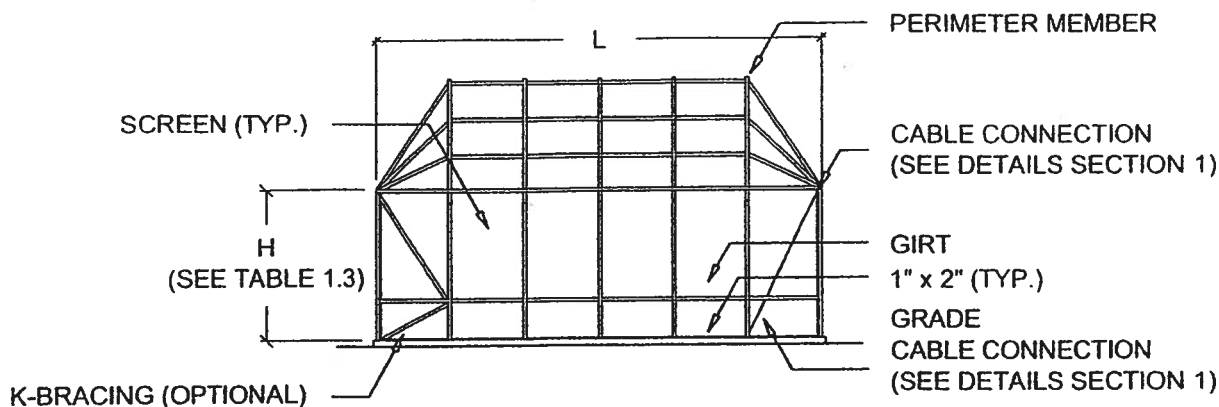
If payment is not received within 30 (thirty) days from date of invoice, legal action can be taken to collect any balance due. Any legal expenses incurred will be added to the account to be collected.



46

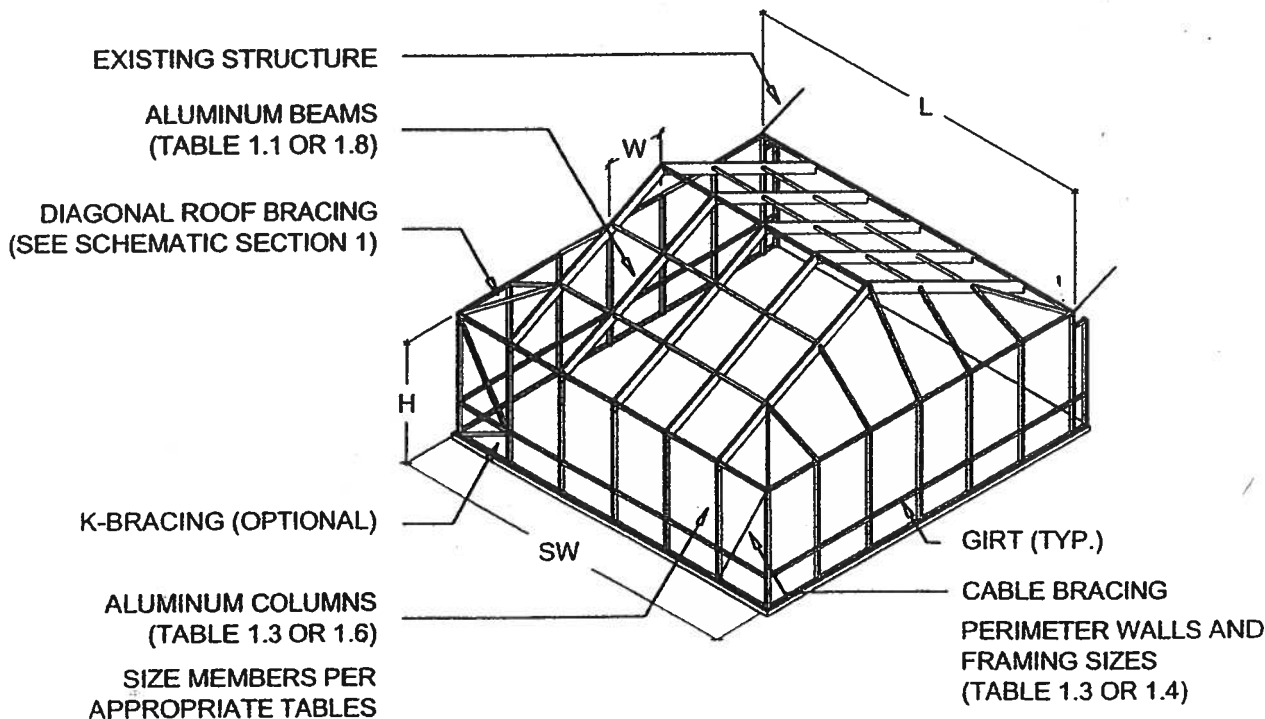


FILE COPY



TYPICAL MODIFIED HIP ROOF - ELEVATION

SCALE: N.T.S.



TYPICAL MODIFIED HIP ROOF - ISOMETRIC

SCALE: N.T.S.

FILE COPY

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

CIVIL ENGINEER - DEVELOPMENT CONSULTANT

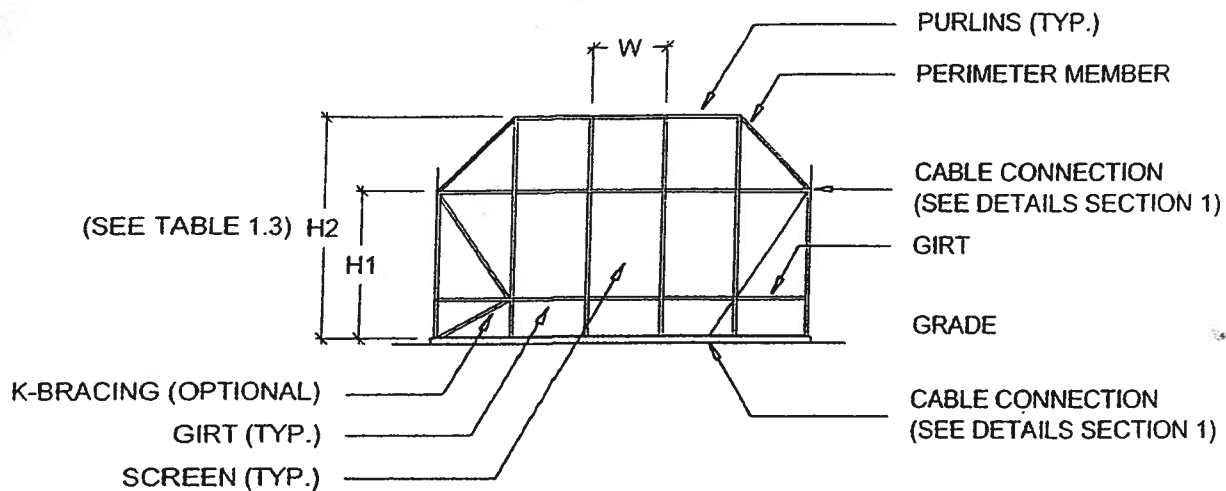
P.O. BOX 214368, SOUTH DAYTONA, FL 32121

TELEPHONE: (386) 767-4774

FAX: (386) 767-6556

*Pool Enc.
Package*

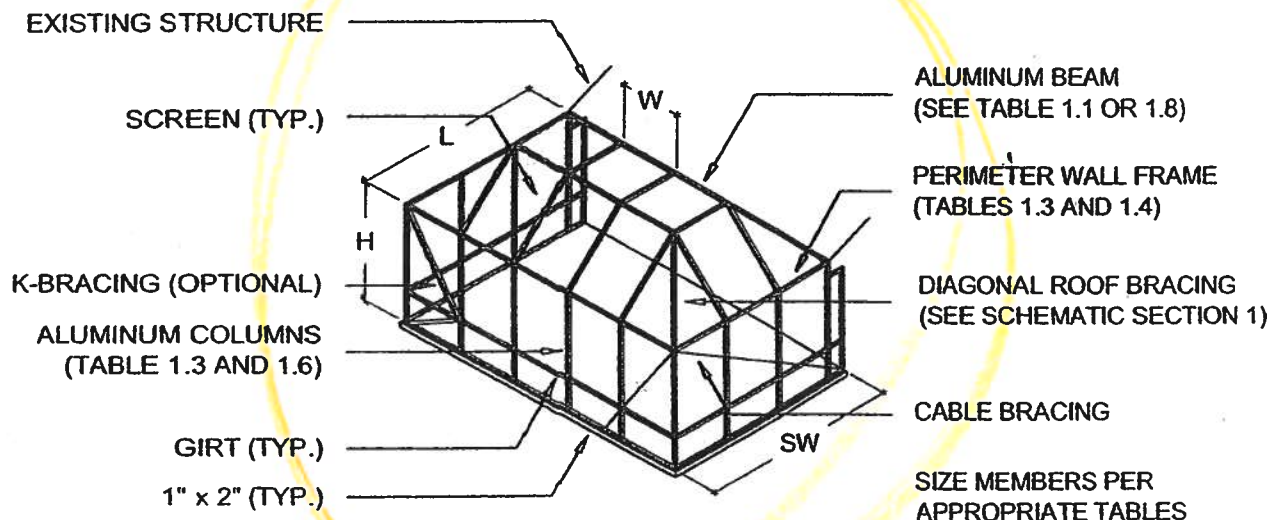
1



NOTE: USE H2 FOR CABLE AREA CALCULATION

TYPICAL MANSARD ROOF - ELEVATION

SCALE: N.T.S.



TYPICAL MANSARD ROOF - ISOMETRIC

SCALE: N.T.S.

CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES.

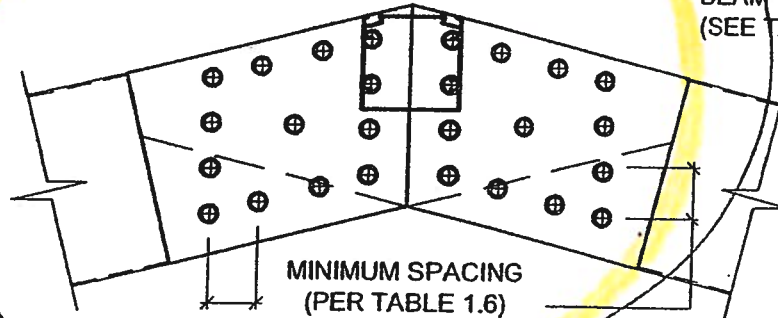
Lawrence E. Bennett, P.E. FL # 16644

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

2

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

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



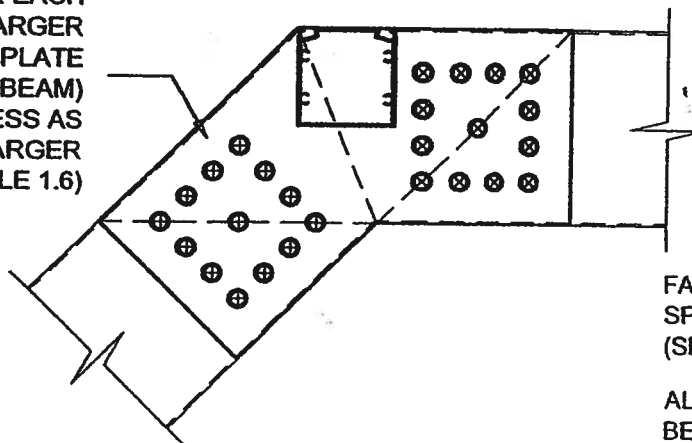
MINIMUM SPACING
(PER TABLE 1.6)
(SEE SPLICING DETAIL PAGE 1-17)

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"



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

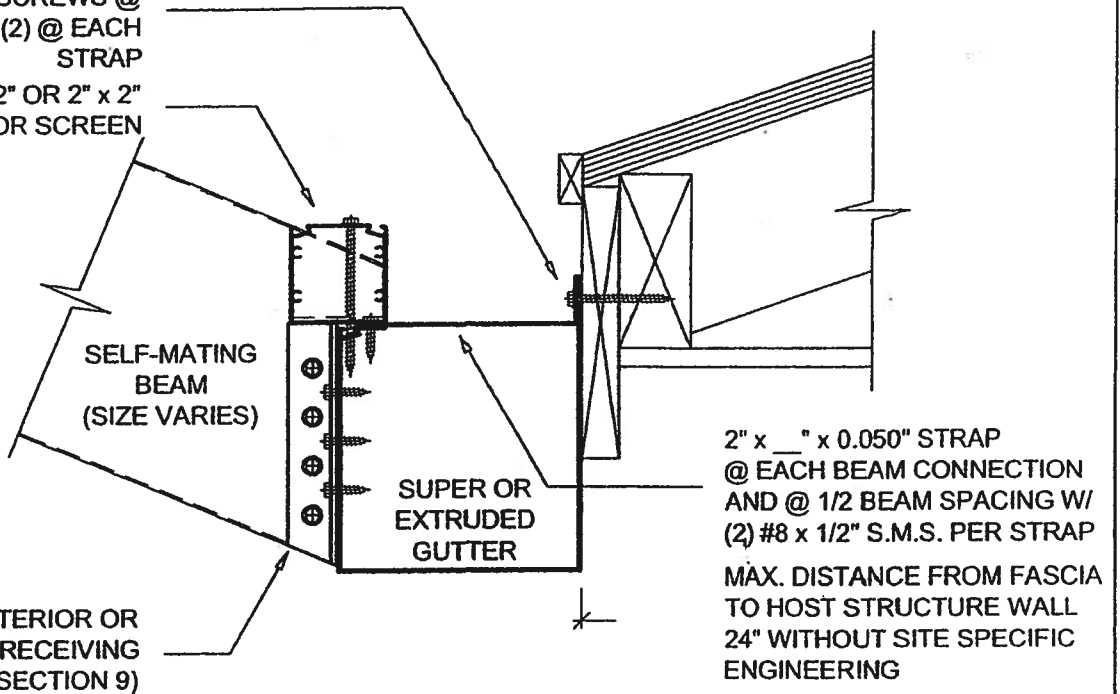
CIVIL ENGINEER - DEVELOPMENT CONSULTANT

P.O. BOX 214368, SOUTH DAYTONA, FL 32121

TELEPHONE: (386) 767-4774

FAX: (386) 767-6556

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



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

SCALE: 3" = 1'-0"

7

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

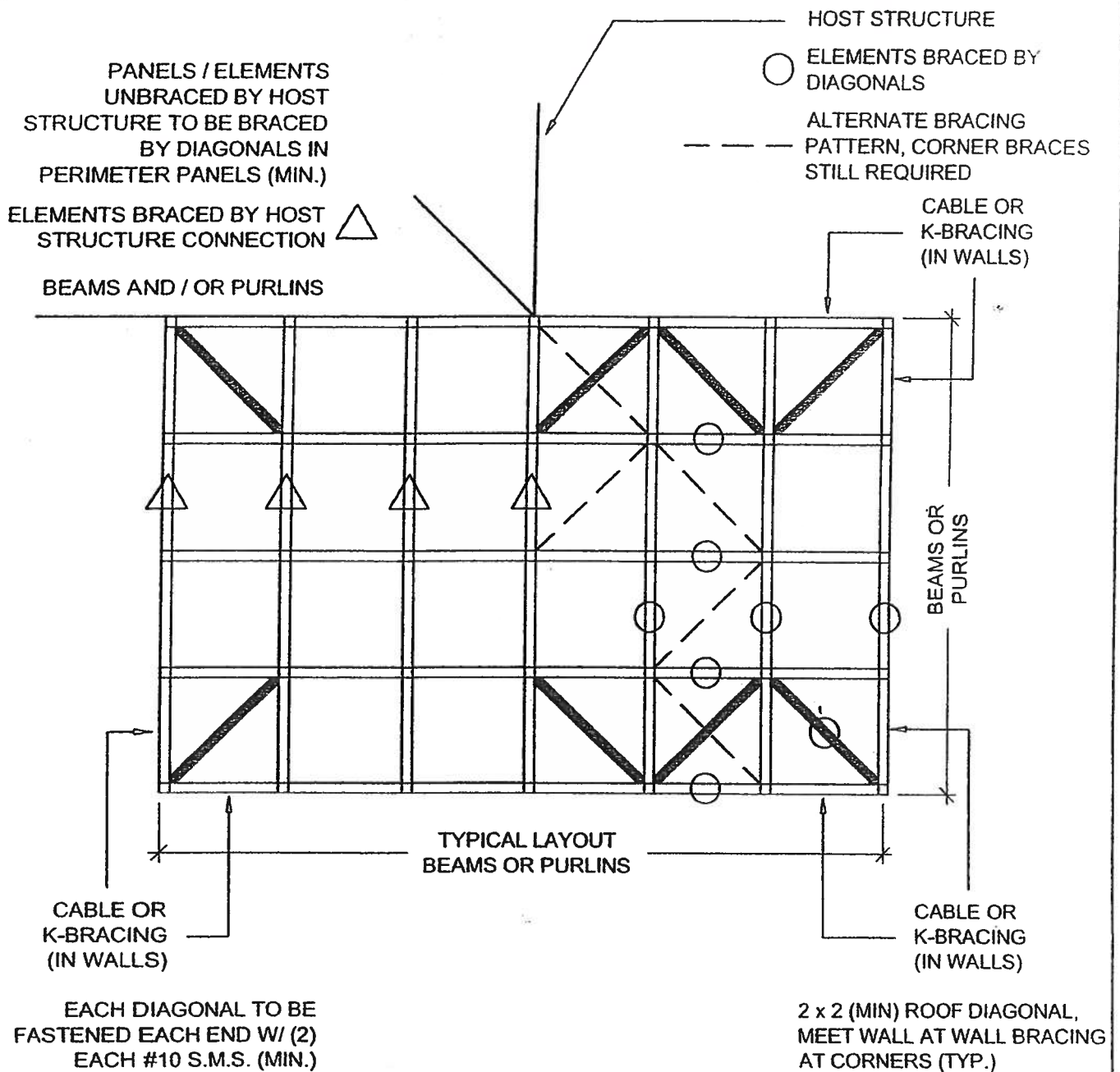
CIVIL ENGINEER - DEVELOPMENT CONSULTANT

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7

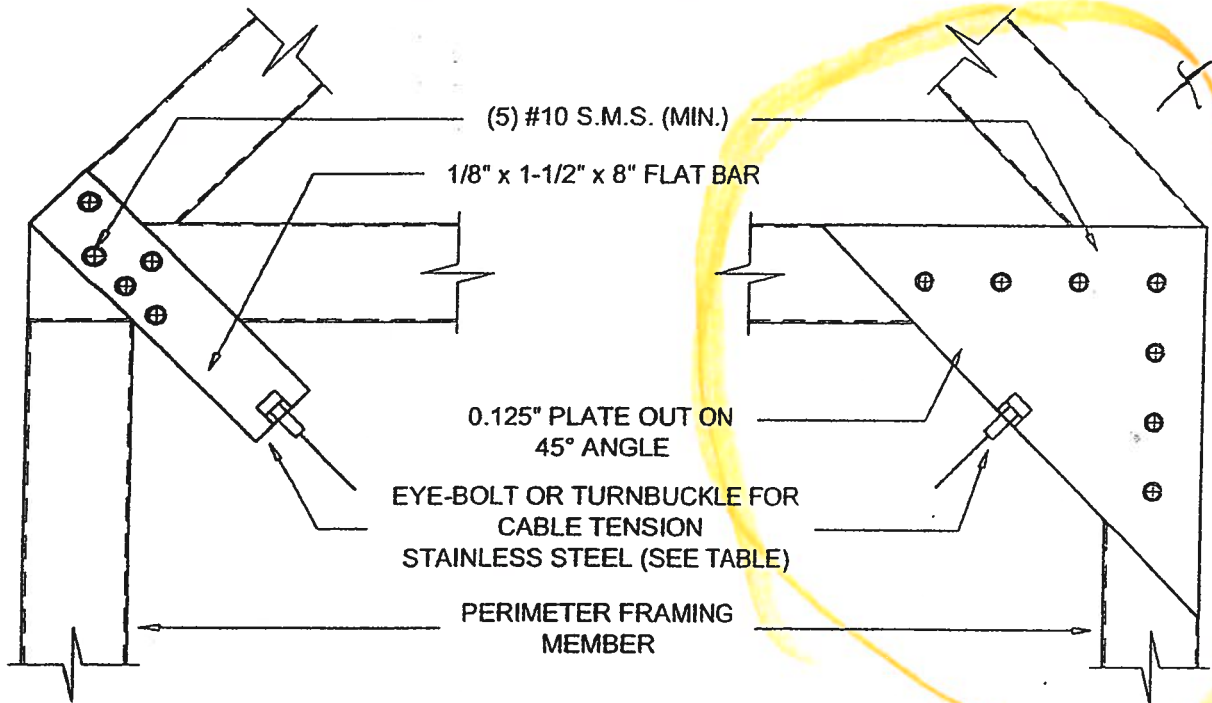


POOL ENCLOSURE DIAGONAL BRACING - SCHEMATIC PLAN VIEW

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

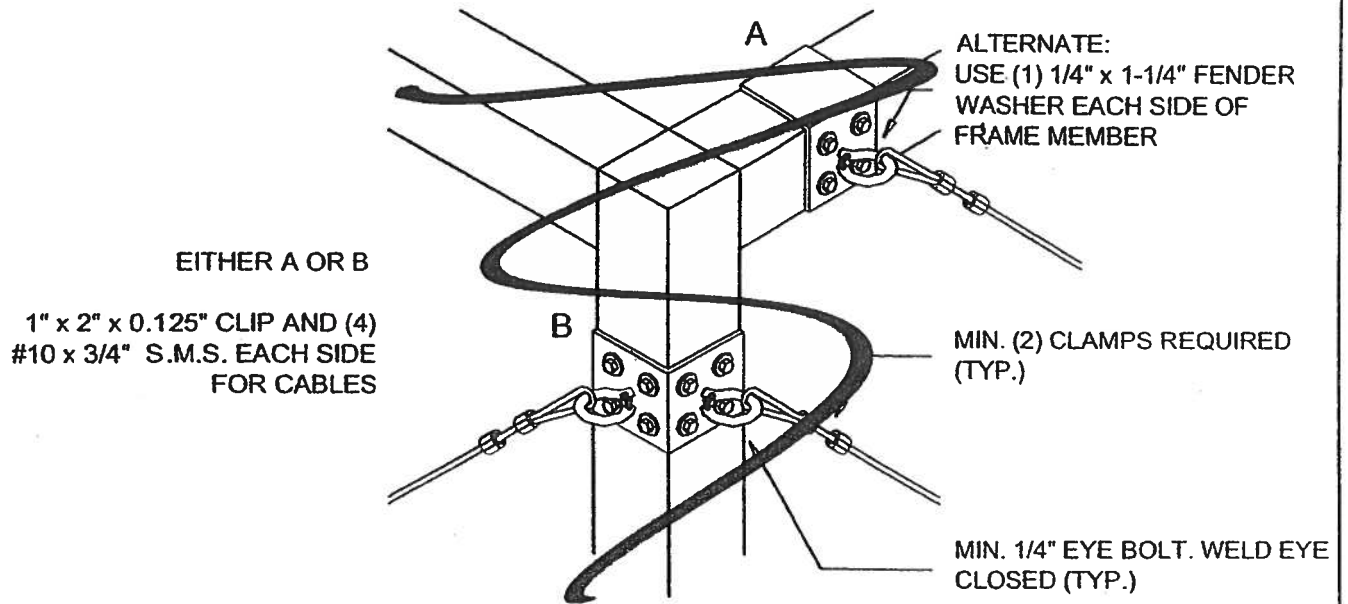
Lawrence E. Bennett, P.E. FL # 16644

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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

CIVIL ENGINEER - DEVELOPMENT CONSULTANT

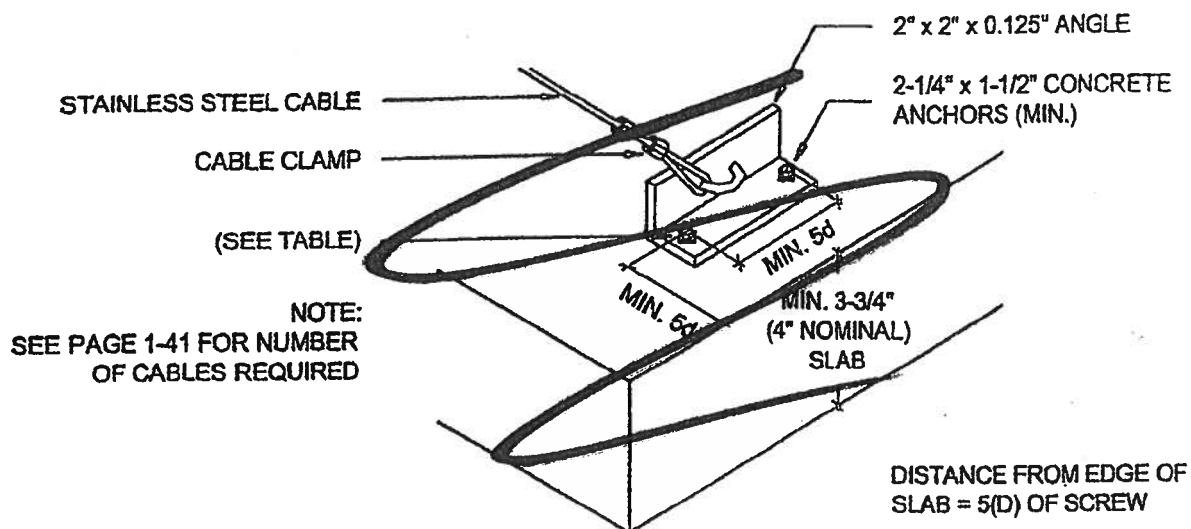
P.O. BOX 214368, SOUTH DAYTONA, FL 32121

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FAX: (386) 767-6556

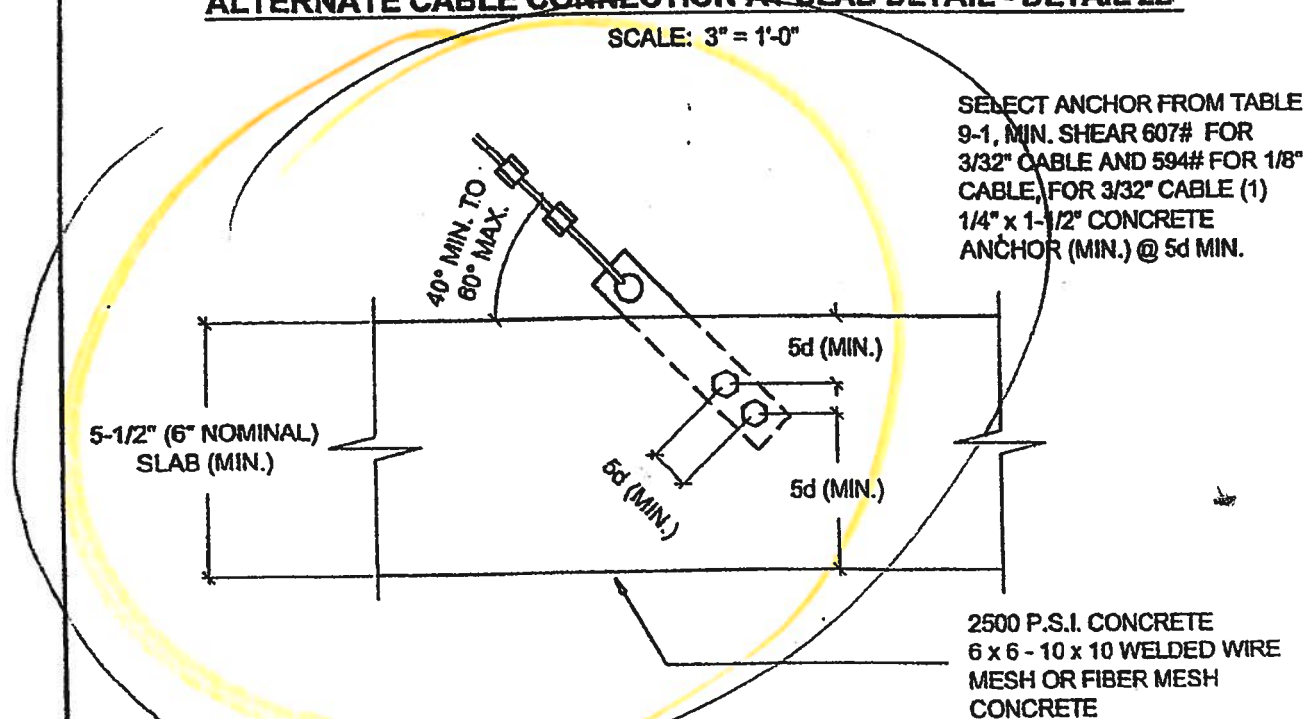
SCREENED ENCLOSURES

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"

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

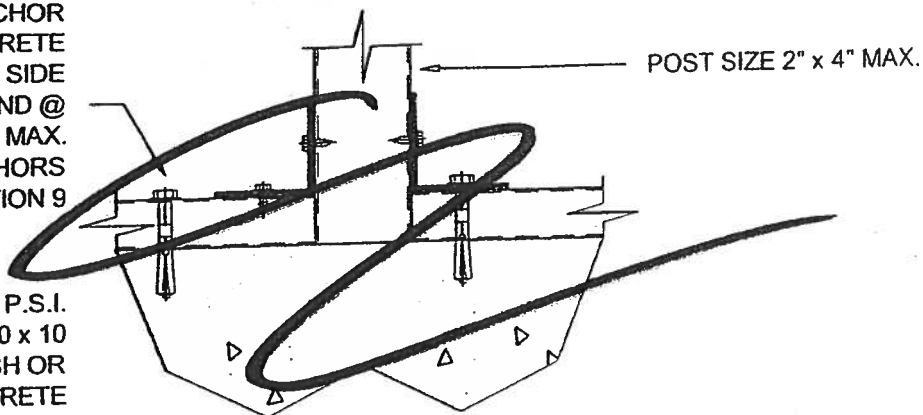
CIVIL ENGINEER • DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4714
FAX: (386) 767-6556

SECTION 1

SCREENED ENCLOSURES

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

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

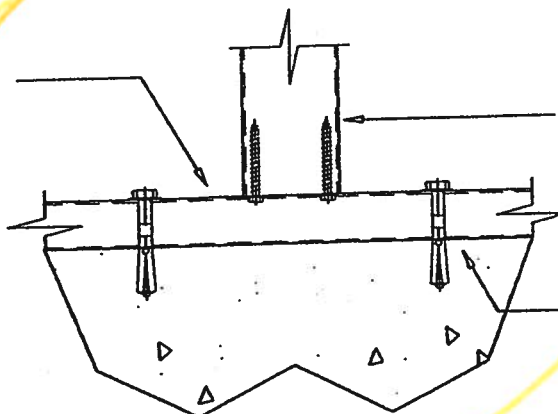


SIDE WALL POST TO PLATE TO CONCRETE DETAIL

SCALE: 3" = 1'-0"

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

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



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

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

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

SIDE WALL HOLLOW POST TO BASE DETAIL

SCALE: 3" = 1'-0"

POOL ENCLOSURE UPRIGHT TO DECK ANCHOR REQUIREMENTS

General Notes and Specifications:

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

EXAMPLE:

FOR A 2" x 6" BEAM WITH A SPAN OF 23' AND A BEAM & UPRIGHT SPACING
OF 7' USE:

$$1/2 \times 17'-11" \times 7' \times 10\# / \text{Sq. Ft.} = 627.2\# \text{ UPLIFT}$$

2. Table 1.6 of this manual uses the worst case loads for all cases.
3. In all cases there must be a primary anchor within 6" of each side of the upright.

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

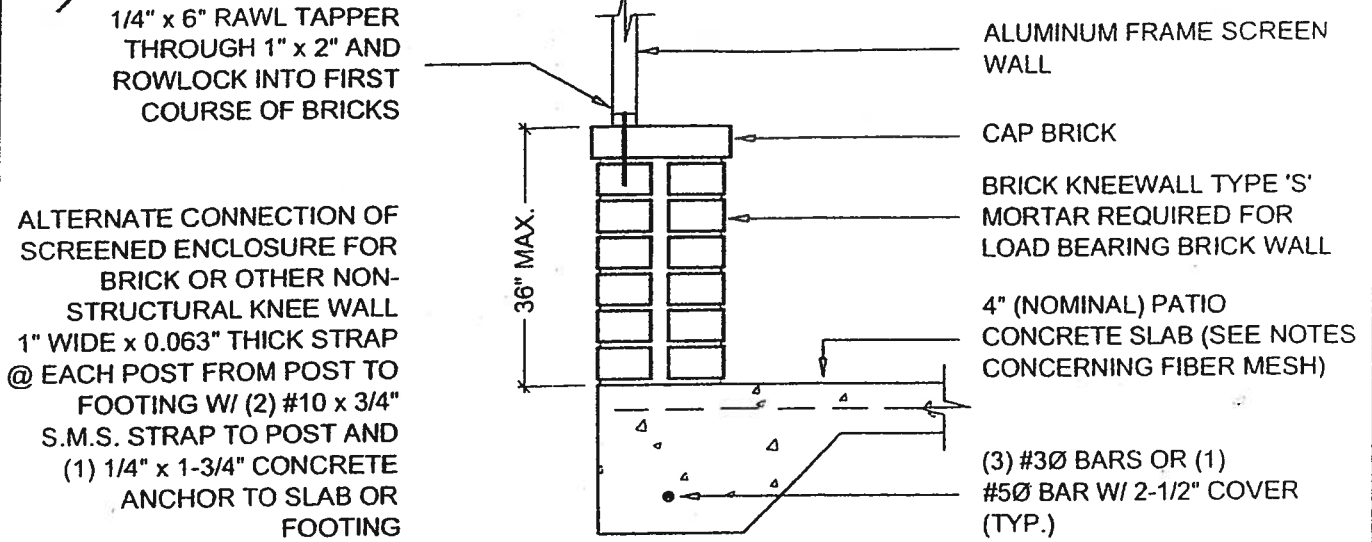
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TELEPHONE: (386) 767-4774
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13

12

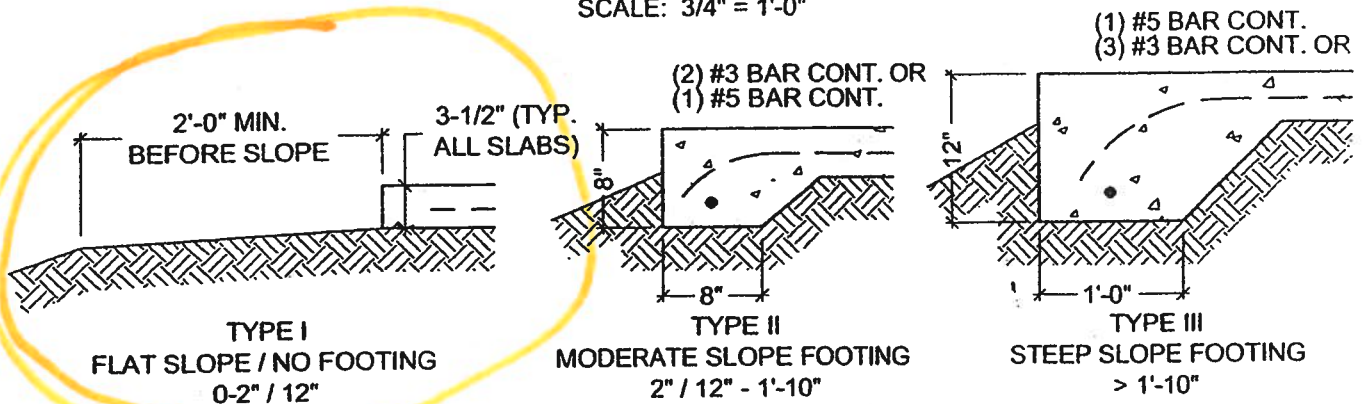
SCREENED ENCLOSURES

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 0.055" x 0.120"	41'-7" b	36'-1" b	32'-3" b	29'-5" b	27'-0" 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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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 0.045"	12'-4" b	11'-7" b	10'-11" b	10'-4" b	9'-11" 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 4" x 0.044 x 0.100"	20'-11" b	18'-1" b	16'-2" b	14'-9" b	13'-2" 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.

$$8.9 \times 1.13 = 10.057$$

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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 CATAGORY 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 4"	2" x 2" x 0.044"	4	Partial Lap	16	14	12	#12
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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