

DATE 12/16/2009

**Columbia County Building Permit**  
This Permit Must Be Prominently Posted on Premises During Construction

**PERMIT**  
**000028276**

APPLICANT ANDREW TURNER PHONE 352 369-1444  
ADDRESS 14066 SW 15TH AVE OCALA FL 34474  
OWNER KENNETH & MARY VEST PHONE \_\_\_\_\_  
ADDRESS 339 SE PEBBLE CREEK LAKE CITY FL 32025  
CONTRACTOR WILLIAM WOODARD PHONE 352 369-1444  
LOCATION OF PROPERTY 41S, TL ON 252, TL PEBBLE CREEK, 1ST HOUSE ON RIGHT

TYPE DEVELOPMENT POOL ENCLOSURE ESTIMATED COST OF CONSTRUCTION 6495.00  
HEATED FLOOR AREA \_\_\_\_\_ TOTAL AREA \_\_\_\_\_ HEIGHT \_\_\_\_\_ STORIES \_\_\_\_\_  
FOUNDATION \_\_\_\_\_ WALLS \_\_\_\_\_ ROOF PITCH \_\_\_\_\_ FLOOR \_\_\_\_\_  
LAND USE & ZONING RSF-2 MAX. HEIGHT \_\_\_\_\_  
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00  
NO. EX.D.U. 1 FLOOD ZONE N/A DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 15-4S-17-08359-034 SUBDIVISION \_\_\_\_\_  
LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 1.00

CGC047465  
Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_ Applicant/Owner/Contractor \_\_\_\_\_  
EXISTING X09-304 BK WR  
Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: NOC ON FILE

Check # or Cash 7974

**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 \_\_\_\_\_ Insulation \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Rough-in plumbing above slab and below wood floor \_\_\_\_\_ Electrical rough-in \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Heat & Air Duct \_\_\_\_\_ Peri. beam (Lintel) \_\_\_\_\_ Pool \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Permanent power \_\_\_\_\_ C.O. Final \_\_\_\_\_ Culvert \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Pump pole \_\_\_\_\_ Utility Pole \_\_\_\_\_ M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Reconnection \_\_\_\_\_ RV \_\_\_\_\_ Re-roof \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 35.00 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** 85.00  
INSPECTORS OFFICE Mike Teddl CLERKS OFFICE CH

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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





Corporate Office 1-800-878-8804

OCALA  
1406 S.W. 15th Ave.  
Ocala, FL 34471  
PH: 352-369-1444  
Fax: 352-369-1988

ORLANDO  
4832 N. Orange Blossom Tr.  
Orlando, FL 32810  
PH: 407-298-0096  
Fax: 407-295-0507

HUDSON  
15046 Labor Place  
Hudson, FL 34667  
PH: 727-868-8802  
Fax: 727-862-0483

09-4/14/15  
11/11/15

SOLD TO

PH. #

DATE:

ADDRESS

ZIP

CITY

ZIP

339 SE Robles Creek Lake City

SUBDIV.

LOT

BLK

UNIT

BLDG. DEPT.

JOBNAME

Jim Allen Custom Vest

PH. #

APPROX DELIVERY:

TYPE:

P/Enc

S/Enc

Lanal

Railing

Fence

Gutter

Soffit

Other

ROOF STYLE: Mansard

COLOR: (WHT) BRZ BLK OTHER

APPROX. WALL HGT. 9'6"

DOORS 2 Reg. 1 4ft.

GUTTER 5"

RISE WALLS

INSULATED ROOF

PAN ROOF

FAN BEAMS (Coastal is not responsible for electrical or location if not specified at signing)

KICKPLATE

X CHAIRRAIL yes

FLA. GLASS

CARRY BEAMS

POSTS

APPROX. ROOF FT²

APPROX. WALL FT²

PERMIT: YES

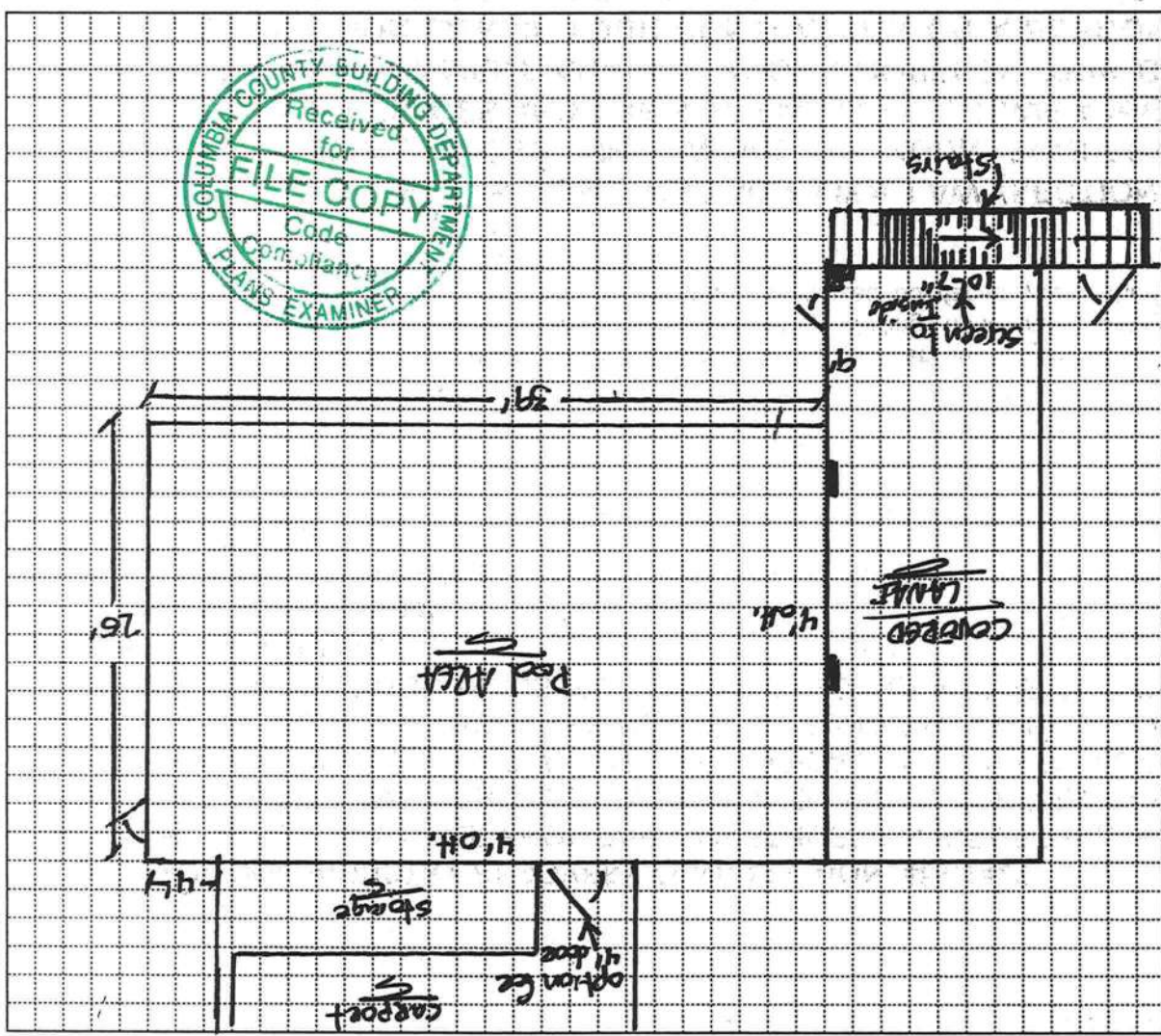
NOC: YES

SURVEY: YES

PLAN: YES

PO: YES

NOTES



### PERMIT MUST REMAIN POSTED UNTIL FINAL INSPECTION

- A Survey sheet or a plot plan and complete legal description is required on all pool and patio enclosures.
- Purchaser or Homeowner will obtain any permissions and concessions necessary for installation including, but not limited to those required by any homeowners association.
- Customer will be invoiced for subsequent additional footage or items requested that were not part of the original contract.

**Terms & Conditions:** Final payment is due upon substantial completion. Substantial completion occurs upon passage of the final inspection by the building official. Customer agrees to pay interest at one and one-half percent (1.5%) per month beginning 10 days after substantial completion for any unpaid balance. Punchlist work (minor corrections / repairs) will not be performed until final payment is made. The work will be performed on or about the date listed above, weather and other uncontrollable events permitting. Customer agrees to cooperate with Coastal and make the property accessible in order to perform the work described herein. **LIMITED WARRANTY:** Coastal warrants its work to be done in a workmanlike manner and to comply with the specifications set forth herein. Coastal agrees to repair or replace any defective work performed by Coastal or materials provided by Coastal for one year from substantial completion. All terms, including price, are subject to changes in local, state, federal regulations, and accepted engineering standards, whether known or unknown and whether in existence at the time of execution. Warranty is not effective unless contract price is paid in full. If and only if the Customer is a contractor per Florida Statutes Ch. 713, then in the event litigation arises out of this contract between the Customer and Coastal, the prevailing party shall be entitled to an award of attorney's fees.

This proposal does not become a contract until accepted by a corporate officer, if it is not accepted all payments will be refunded.

Purchaser

Date

Coastal Craftsmen Aluminum Inc., By: \_\_\_\_\_

PLEASE SIGN WHITE COPY AND RETURN WITH DEPOSIT

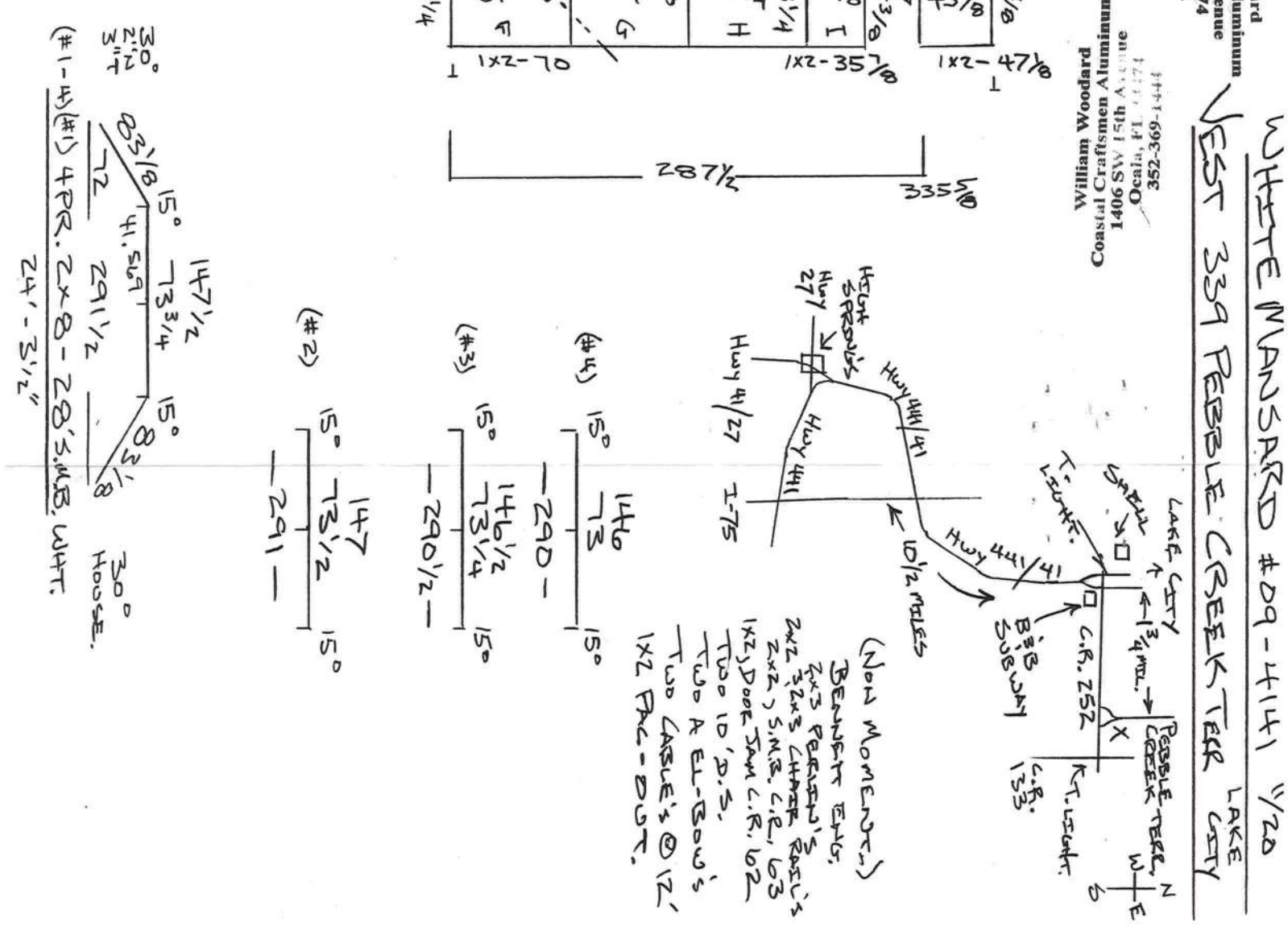
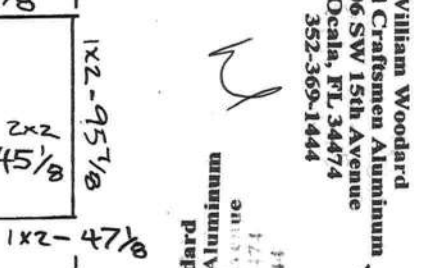
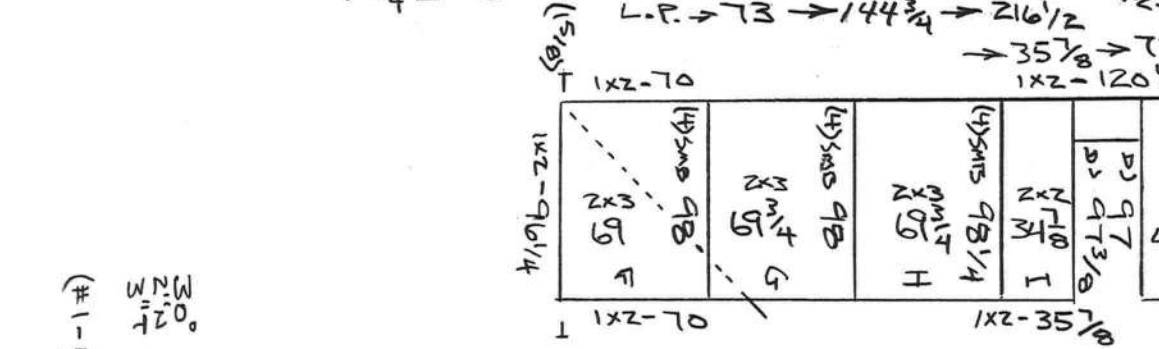
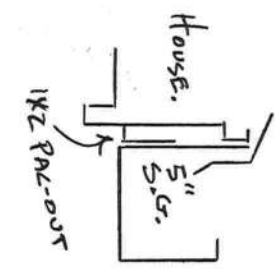
THIS ESTIMATE GOOD FOR 30 DAYS



**William Woodard**

WHEATMAN SAND #09-4141 11/20  
WEST 339 PEBBLE CREEK TERR LAKE CITY

**William Woodard**  
Coastal Craftsmen Aluminum  
1406 SW 15th Avenue  
Ocala, FL 34474  
352-369-3444





# 85

## Columbia County Building Permit Application

For Office Use Only Application # 0912-04 Date Received 12-3-09 By UH Permit # 282 76  
 Zoning Official B2K Date 09.12.09 Flood Zone N/A Land Use Res Low Density Zoning RSF-2  
 FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner WRD Date 12-15-09  
 Comments \_\_\_\_\_  
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☒ State Road Info ☒ Parent Parcel # \_\_\_\_\_  
☒ Dev Permit # \_\_\_\_\_ ☒ In Floodway ☒ Letter of Auth. from Contractor ☒ F W Comp. letter  
 IMPACT FEES: EMS \_\_\_\_\_ Fire \_\_\_\_\_ Corr on file Road/Code \_\_\_\_\_  
 School \_\_\_\_\_ = TOTAL N/A Addition to existing Dwelling

Septic Permit No. X09-364 in file box Fax \_\_\_\_\_  
 Name Authorized Person Signing Permit Andrew Turner Phone 352-369-1444  
 Address 1406 SW 15th Ave, Ocala, FL 34474  
 Owners Name KENNETH & MARY VEST Phone \_\_\_\_\_  
 911 Address 339 SE PEBBLE CREEK TERR LAKE CITY FL 32025  
 Contractors Name William Woodard - Coastal Craftsmen Phone 352-369-1444  
 Address 1406 SW 15th Ave Ocala FL 34474  
 Fee Simple Owner Name & Address N/A  
 Bonding Co. Name & Address N/A  
 Architect/Engineer Name & Address Bennett Eng. P.O. Box 214368 S. Daytona FL 32121  
 Mortgage Lenders Name & Address N/A  
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy  
 Property ID Number 15-45-17-0839-034 Estimated Cost of Construction 6495.00  
 Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions 415, TL 252, TL Pebble Creek,  
1st house on right.

Number of Existing Dwellings on Property 1  
 Construction of Screen Pool Enclosure Total Acreage 1.0 Lot Size 1.0  
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 8'  
 Actual Distance of Structure from Property Lines - Front \_\_\_\_\_ Side \_\_\_\_\_ Side 50' Rear 37'  
 Number of Stories 1 Heated Floor Area \_\_\_\_\_ Total 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. CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code. Page 1 of 2 (Both Pages must be submitted together.) Revised 6-19-09

T.L. tried several times: NO answer. 12.15.09



## Columbia County Building Permit Application

**TIME LIMITATIONS OF APPLICATION :** An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**TIME LIMITATIONS OF PERMITS:** Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

**FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment:** According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

**NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:** YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

**OWNERS CERTIFICATION:** I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

**NOTICE TO OWNER:** There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature

\*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.

**CONTRACTORS AFFIDAVIT:** By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's Signature (Permitee)

Contractor's License Number  
Columbia County  
Competency Card Number

CGC047465  
290

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25th day of November 2009.

Personally known X or Produced Identification

State of Florida Signature (For the Contractor)

SEAL:

ROBIN CHILLURA  
Notary Public, State of Florida  
My comm. exp. May 16, 2011  
Comm. No. DD 641491

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

Inst:2002010860 Date:06/04/2002 Time:15:32:14  
Loc Stamp-Deed : 836.50  
DC, P. DeWitt Cason, Columbia County B:954 P:1857

RETURN TO:

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

Grantee #1 S.S. No. [REDACTED]

Grantee #2 S.S. No. [REDACTED]

Property Appraiser's  
Parcel Identification No.  
R08359-034

#### WARRANTY DEED

THIS INDENTURE, made this 24th day of May 2002, BETWEEN WILLIAM B. DUTY, a/k/a WILLIAM BURKETT DUTY, by his attorney-in-fact, THERESA K. SAYRE, under Durable Power of Attorney dated May 11, 2001, and recorded in the public records of Columbia County, Florida in Official Records Book 954, Page 1853, and KATHERINE L. DUTY, Husband and Wife whose post office address is Route 12 Box 702, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantor\*, and KENNETH W. VEST and MARY R. VEST, Husband and Wife whose post office address is Route 12, Box 702, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantee\*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

AS DESCRIBED IN EXHIBIT "A" ATTACHED.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

\*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand  
and seal the day and year first above written.

Signed, sealed and delivered  
in our presence:

Inst:2002010880 Date:06/04/2002 Time:15:32:14

Loc Stamp-Deed : 836.50

WRC DC, P. DeWitt Cason, Columbia County B:954 P:1856

*Crystal L. Brunner*  
(First Witness)  
Crystal L. Brunner  
Printed Name

*DeEtte F. Brown*  
(Second Witness)  
DeEtte F. Brown  
Printed Name

*William Burkett Duty* (SEAL)  
William Burkett Duty

By: *Theresa K. Sayre*  
Theresa K. Sayre  
His Attorney-in-Fact

*Katherine L. Duty* (SEAL)  
Katherine L. Duty

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 24th  
day of May 2002, by Teresa K. Sayre as Attorney-in-Fact for William  
Burkett Duty and Katherine L. Duty, they are personally known to me  
and did not take an oath.

*Crystal L. Brunner*  
Notary Public  
My Commission Expires: \_\_\_\_\_

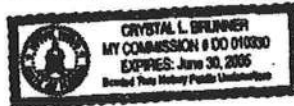


EXHIBIT "A"

Commence at the Northwest corner of the SW $\frac{1}{4}$  of SW $\frac{1}{4}$ , Section 15, Township 4 South, Range 17 East, Columbia County, Florida, and run S 1 deg. 25'46" E along the West line of said SW $\frac{1}{4}$  of SW $\frac{1}{4}$  a distance of 631.23 feet to the North right-of-way line of State Road S-252; thence S 67 deg. 58'11" E along said North right-of-way line, State Road No. S-252, a distance of 490.00 feet to the Point of Curve of a curve concave to the right, having a radius 25.00 feet and a total central angle of 90 deg. 00'00" and the POINT OF BEGINNING: thence run Northwesterly and Northeasterly along the arc of said curve 39.27 feet to the Point of Tangency of said curve; thence N 22 deg. 01'49" E 205.00 feet; thence S 67 deg. 58'11" E 220.30 feet to the centerline of an existing creek; thence S 35 deg. 37'16" W along said creek centerline 18.08 feet to its intersection with right-of-way of Florida Department of Transportation Drainage Ditch; thence N 70 deg. 45'11" W along said Ditch right-of-way 30.00 feet; thence S 19 deg. 14'49" W still along said Ditch right-of-way 107.69 feet; thence S 57 deg. 09'22" W still along said Ditch right-of-way 51.68 feet; thence S 79 deg. 50'49" W still along said Ditch right-of-way 85.55 feet; thence S 22 deg. 01'49" W still along said Ditch right-of-way 15.56 feet to said North right-of-way line of State Road No. S-252; thence N 67 deg. 58'11" W along said right-of-way line, State Road No. S-252, a distance of 64.17 feet to the POINT OF BEGINNING; Columbia County, Florida. The West 10 feet of the above described property shall be subject to easement for utilities, including electrical and water.



NOTICE OF COMMENCEMENT

Tax Parcel Identification Number 15-48-17-08359-034 HX County Clerk's Office Stamp or Seal

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description):  
a) Street (job) Address: 339 SE PEBBLE CREEK TERR. LAKE CITY FL 32025
2. General description of improvements: SCREEN POOL ENCLOSURE
3. Owner Information  
a) Name and address: KENNETH W & MARY R. VEST 339 SE PEBBLE CREEK TERR LAKE CITY FL 32025  
b) Name and address of fee simple titleholder (if other than owner) N/A  
c) Interest in property OWNER
4. Contractor Information  
a) Name and address: WILLIAM WOODARD - COASTAL CRAFTSMEN  
b) Telephone No.: 352-369-1444 Fax No. (Opt.) 352-369-1988
5. Surety Information  
a) Name and address: N/A  
b) Amount of Bond: \_\_\_\_\_  
c) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
6. Lender  
a) Name and address: N/A  
b) Phone No.: \_\_\_\_\_
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:  
a) Name and address: N/A  
b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:  
a) Name and address: N/A  
b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): \_\_\_\_\_

**WARNING TO OWNER:** ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA  
COUNTY OF COLUMBIA

X 10. Kenneth Vest Mary Roxanne Vest  
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager  
X Kenneth Vest Mary Roxanne Vest  
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 25th day of November, 20 09, by:  
Kenneth Vest & Mary Vest as \_\_\_\_\_ (type of authority, e.g. officer, trustee, attorney  
fact) for \_\_\_\_\_ (name of party on behalf of whom instrument was executed).

Personally Known X OR Produced Identification \_\_\_\_\_ Type \_\_\_\_\_

Notary Signature Robin Chillura Notary Stamp or Seal: \_\_\_\_\_

ROBIN CHILLURA  
Notary Public, State of Florida  
My comm. exp. May 16, 2011  
Comm. No. DD 641491

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

X Kenneth Vest Mary Roxanne Vest  
Signature of Natural Person Signing (in line #10 above.)

# Lawrence E. Bennett, P.E.

315 Herbert Street  
Port Orange, FL 32129  
386-767-4774 fax: 386-767-6556

January 1, 2009

TO ALL BUILDING DEPARTMENTS

Re: Master File Engineering  
"ALUMINUM STRUCTURES DESIGN MANUAL"  
2004 Florida Building Code with 2006 Supplements

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 2009.

Authorization is 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.

The following contractor/company is hereby added to my 2009 MASTERFILE LIST:

William Woodard  
Coastal Craftsmen Aluminum  
15046 Labor Place  
Hudson, FL 34667  
CGC047465

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

Sincerely,



(NOTES:)- Keep All "Field  
To Cont. Copy" Documents  
on Job Site  
For Inspections.



Lawrence E. Bennett, P.E. #16644

- Pool Enclosure To Be  
Bonded, Grounded Per NEC. 2008





COLUMBIA COUNTY BUILDING DEPARTMENT  
135 NE Hernando Ave, Suite B-21, Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160

LETTER OF AUTHORIZATION

I, William Woodward, give this authority for the job address show below  
Installer License Holder Name

only, 1339 SE Pebble Creek Terr, and I do certify that  
Job Address

the below referenced person(s) listed on this form is/are under my direct supervision and control  
and is/are authorized to purchase permits, call for inspections and sign on my behalf.

Printed Name of Authorized Person	Signature of Authorized Person	Authorized Person is... (Check one)
Andrew C. Turner	<i>Andrew C. Turner</i>	<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner
		<input type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner
		<input type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner

I, the license holder, realize that I am responsible for all permits purchased, and all work done  
under my license and I am fully responsible for compliance with all Florida Statutes, Codes, and  
Local Ordinances.

I understand that the State Licensing Board has the power and authority to discipline a license  
holder for violations committed by him/her or by his/her authorized person(s) through this  
document and that I have full responsibility for compliance granted by issuance of such permits.

*William Woodward*  
License Holders Signature (Notarized)

CGC047465  
License Number

12/3/09  
Date

NOTARY INFORMATION:

STATE OF: Florida COUNTY OF: Marion

The above license holder, whose name is William Woodward,  
personally appeared before me and is known by me or has produced identification  
(type of I.D.) 23 on this Dec day of 2009.

*Robin Chillura*  
NOTARY'S SIGNATURE

(Seal/Stamp)

ROBIN CHILLURA  
Notary Public, State of Florida  
My comm. exp. May 16, 2011  
Comm. No. DD 641491

28276



COLUMBIA COUNTY BUILDING DEPARTMENT  
135 NE Hernando Ave, Suite B-21, Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160

## LETTER OF AUTHORIZATION

I, William Woodard, give this authority for the job address show below  
Installer License Holder Name

only, 0309 SE Pebble Creek Terr, and I do certify that  
Job Address

the below referenced person(s) listed on this form is/are under my direct supervision and control and is/are authorized to purchase permits, call for inspections and sign on my behalf.

Printed Name of Authorized Person	Signature of Authorized Person	Authorized Person is... (Check one)
Andrew C. Turner	<i>Andrew C. Turner</i>	<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner
		<input type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner
		<input type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner

I, the license holder, realize that I am responsible for all permits purchased, and all work done under my license and I am fully responsible for compliance with all Florida Statutes, Codes, and Local Ordinances.

I understand that the State Licensing Board has the power and authority to discipline a license holder for violations committed by him/her or by his/her authorized person(s) through this document and that I have full responsibility for compliance granted by issuance of such permits.

*[Signature]*  
License Holders Signature (Notarized)

CGC047465 12/3/09  
License Number Date

## NOTARY INFORMATION:

STATE OF: Florida COUNTY OF: Marion

The above license holder, whose name is William Woodard, personally appeared before me and is known by me or has produced identification (type of I.D.) 3 on this Dec day of 2009.

*Robin Chillura*  
NOTARY'S SIGNATURE

(Seal/Stamp)

ROBIN CHILLURA  
Notary Public, State of Florida  
My comm. exp. May 16, 2011  
Comm. No. DD 641491



## Design Check List for Pool Enclosures (Page 1 of 4)

### I. Design Statement:

These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and are in compliance with the 2004 Florida Building Code Edition with 2006 Supplements, Chapter 20, ASM35 and The 2005 Aluminum Design Manual Part I-A & II-A; Exposure 'B' ☒ or 'C' ☐ or 'D' ☐; Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and higher; Negative I.P.C. 0.00; 110 MPH Wind Zone for 3 second wind gust; Basic Wind Pressure 14; Design pressures are 4 PSF for roofs & 13 PSF for walls. (see page 1ii for wind loads and design pressures) A 300 PLF point load is also considered for screen roof members.

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

### II. Host Structure Adequacy Statement:

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

Stephanie Broderick

Phone: 352-369-1444

Contractor / Authorized Rep\* Name (please print)

Date: 1/29/09

Contractor / Authorized Rep\* Signature

JIM ALLEN C/HOMES-VEST 339 SE PEBBLES CREEK TERR. LAKE

Job Name & Address

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

### III. Building Permit Application Package contains the following:

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

Roof frame member allowable span conversions from 120 MPH wind zone, "B" Exposure to \_\_\_\_\_ MPH wind zone and / or ☐ "C" or ☐ "D" Exposure for load width of \_\_\_\_\_:

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

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

$$\begin{array}{l} \text{Span} \quad \downarrow \quad \text{Required Converted} \\ \text{@ 120 MPH} \quad \downarrow \quad \text{Span / Height} \\ \text{0.00 (b or d) x 1.00 (b or d) x 1.00 (b or d) = } \end{array}$$

Wind Zone Multiplier (see page 1ii)      Exposure Multiplier (see page 1ii)

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

\* Must have attended Engineer's Continuing Education Class within the past two years.

## Design Check List for Pool Enclosures (Page 2 of 4)

Wall frame member allowable span conversions from 120 MPH wind zone, "B" Exposure to 0.00 MPH wind zone and / or ☐ "C" or ☐ "D" Exposure for load width of 1.00 :  
Look up span in appropriate 120 MPH span table and apply the following formula:

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

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

Wall area calculations for cables:

W = wall width, H = wall height, R = rise

W1 = width @ top of mansard, W2 = width @ top of wall

E. Select footing from examples in manual.

Example 1: Flat Roof

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

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

Total area / (233 ft.<sup>2</sup> / cable for 3/32") = 0 cable pairs      TOTAL = 0.00 ft.<sup>2</sup>

or

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

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

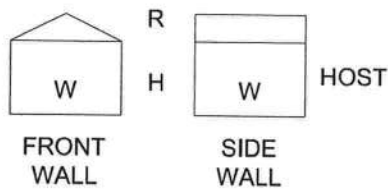
Side wall area / (233 ft.<sup>2</sup> / cable for 3/32") = 0 cable(s)

or

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



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



Example 2: Gable Roof

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

Front gable rise:  $\frac{\text{ft.}}{R} \times \frac{1}{2} \left( \frac{\text{ft.}}{W} \right) = \frac{0.00 \text{ ft.}^2}{b} @ 100\% = \underline{\hspace{2cm}} \text{ ft.}^2$

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

Largest side gable rise:  $\frac{\text{ft.}}{R} \times \frac{\text{ft.}}{W} = \frac{0.00 \text{ ft.}^2}{d} @ 50\% = \underline{\hspace{2cm}} \text{ ft.}^2$

TOTAL =  $\underline{\hspace{2cm}} \text{ ft.}^2$

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

or

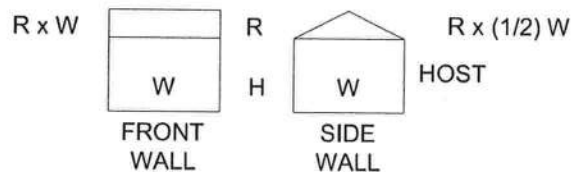
Total area / (445 ft.<sup>2</sup> / cable for 1/8") = 0 cable pairs

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

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

or

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



Example 3: Transverse Gable Roof

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

Front gable rise:  $\frac{\text{ft.}}{R} \times \frac{\text{ft.}}{W} = \frac{0.00 \text{ ft.}^2}{b} @ 100\% = \underline{\hspace{2cm}} \text{ ft.}^2$

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

Largest side gable rise:  $\frac{\text{ft.}}{R} \times \frac{1}{2} \left( \frac{\text{ft.}}{W} \right) = \frac{0.00 \text{ ft.}^2}{d} @ 50\% = \underline{\hspace{2cm}} \text{ ft.}^2$

TOTAL =  $\underline{\hspace{2cm}} \text{ ft.}^2$

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

or

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

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

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

or

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

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

### Example 4: Mansard Roof

$$\text{Front wall @ eave: } \frac{35.00 \text{ ft.}}{W} \times \frac{9.50 \text{ ft.}}{H} = \frac{332.50 \text{ ft.}^2}{a} @ 100\% = 332.50 \text{ ft.}^2$$

$$\text{Front mansard rise: } \frac{3.00 \text{ ft.}}{R} \times \frac{1}{2} \left( \frac{21.00 \text{ ft.}}{W1} + \frac{35.00 \text{ ft.}}{W2} \right) = \frac{84.00 \text{ ft.}^2}{b} @ 100\% = 84.00 \text{ ft.}^2$$

$$\text{Largest side wall: } \frac{21.00 \text{ ft.}}{W} \times \frac{9.50 \text{ ft.}}{H} = \frac{199.50 \text{ ft.}^2}{c} @ 50\% = 99.75 \text{ ft.}^2$$

$$\text{Largest side mansard rise: } \frac{3 \text{ ft.}}{R} \times \frac{1}{2} \left( \frac{10.50 \text{ ft.}}{W1} + \frac{21.00 \text{ ft.}}{W2} \right) = \frac{47.25 \text{ ft.}^2}{d} @ 50\% = 23.63 \text{ ft.}^2$$

$$\text{TOTAL} = 539.88 \text{ ft.}^2$$

$$\text{Total area / (233 ft.}^2 \text{ / cable for 3/32") = 2 cable pairs}$$

or

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

$$\text{Side wall cable calculation: } \frac{199.50 \text{ ft.}^2}{c} + \frac{47.25 \text{ ft.}^2}{d} = \frac{246.75 \text{ ft.}^2}{e} @ 100\% = 246.75 \text{ ft.}^2$$

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

or

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

### Example 5: Dome Roof

$$\text{Front dome wall @ eave: } \frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \frac{0.00 \text{ ft.}}{a} @ 100\% = 0.00 \text{ ft.}^2$$

$$\text{Front dome rise: } \frac{\text{ft.}}{R} \times \frac{1}{2} \left( \frac{\text{ft.}}{W} \right) = \frac{0.00 \text{ ft.}^2}{b} @ 100\% = 0.00 \text{ ft.}^2$$

$$\text{Largest side wall: } \frac{\text{ft.}}{W} \times \frac{\text{ft.}}{H} = \frac{0.00 \text{ ft.}^2}{c} @ 50\% = 0.00 \text{ ft.}^2$$

$$\text{Largest side dome rise: } \frac{\text{ft.}}{R} \times \frac{\text{ft.}}{W} = \frac{0.00 \text{ ft.}^2}{d} @ 50\% = 0.00 \text{ ft.}^2$$

$$\text{TOTAL} = 0.00 \text{ ft.}^2$$

$$\text{Total area / (233 ft.}^2 \text{ / cable for 3/32") = 0 cable pairs}$$

or

$$\text{Total area / (445 ft.}^2 \text{ / cable for 1/8") = 0 cable pairs}$$

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

$$\text{Side wall area / (233 ft.}^2 \text{ / cable for 3/32") = 0 cable(s)}$$

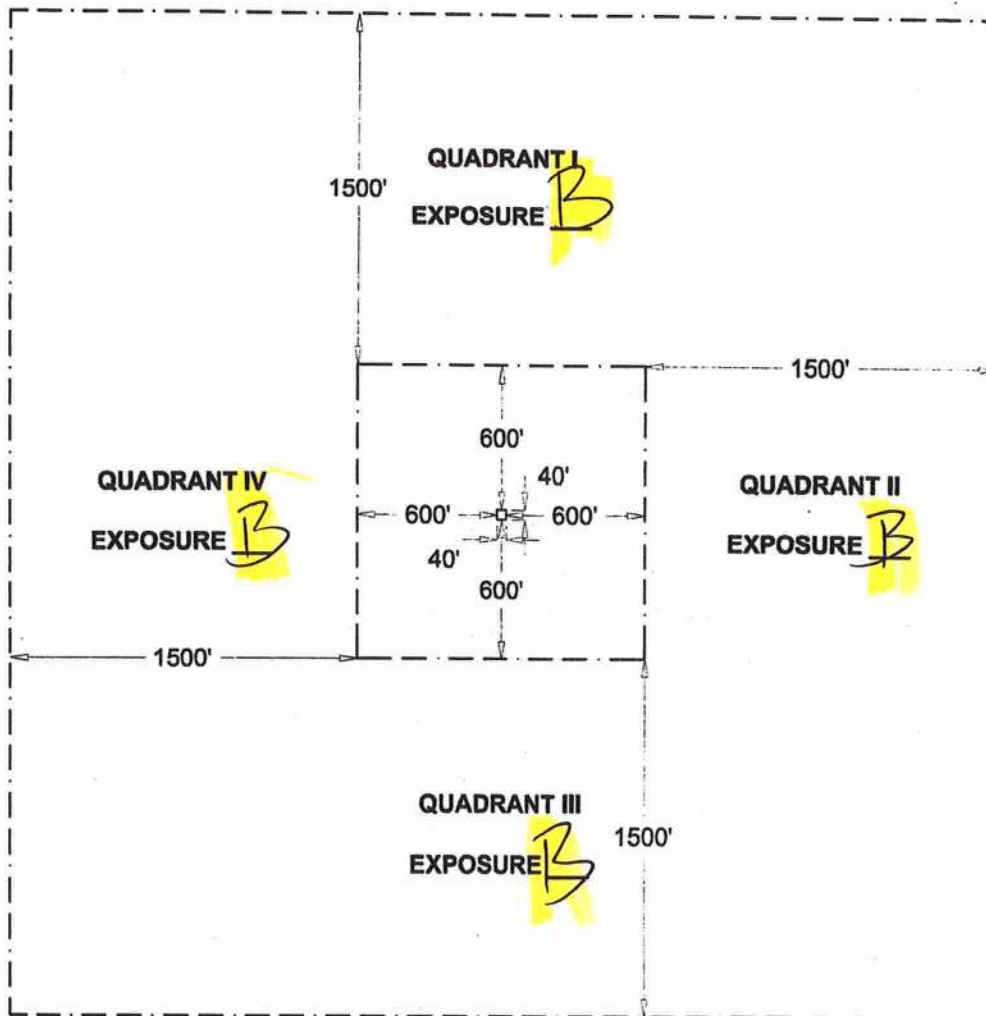
or

$$\text{Side wall area / (445 ft.}^2 \text{ / cable for 1/8") = 0 cable(s)}$$

**Notes:**



# SITE EXPOSURE EVALUATION FORM



**NOTE:** ZONES ARE MEASURED FROM STRUCTURE OUTWARD

## SITE

SCALE: 1" = 800'

USING THE FOLLOWING CRITERIA, EVALUATE EACH QUADRANT AND MARK IT AS 'B', 'C', OR 'D' EXPOSURE. 'C' OR 'D' EXPOSURE IN ANY QUADRANT MAKE THE SITE THAT EXPOSURE.

EXPOSURE C: 1. OPEN TERRAIN FOR MORE THAN 1,500 FEET IN ANY QUADRANT.

2. ANY 'C' EXPOSURE FOR GREATER THAN 600 FEET IN ANY QUADRANT.

3. NO SHORT TERM CHANGES IN 'B', 2 YEARS BEFORE SITE EVALUATION AND BUILD OUT WITHIN 3 YEARS, SITE WILL BE 'B'.

4. FLAT, OPEN COUNTRY, GRASSLANDS, PONDS AND OCEAN OR SHORELINES IN ANY QUADRANT FOR GREATER THAN 1,500 FEET.

EXPOSURE D: FLAT, UNOBSTRUCTED AREAS THAT ARE 1,500 FT INLAND FROM THE SHORE LINE AND ARE EXPOSED TO WIND FLOWING OVER WATER FOR A DISTANCE OF AT LEAST 1 MILE.

SITE IS EXPOSURE: B

EVALUATED BY:

William Woodard

DATE:

10/29/09

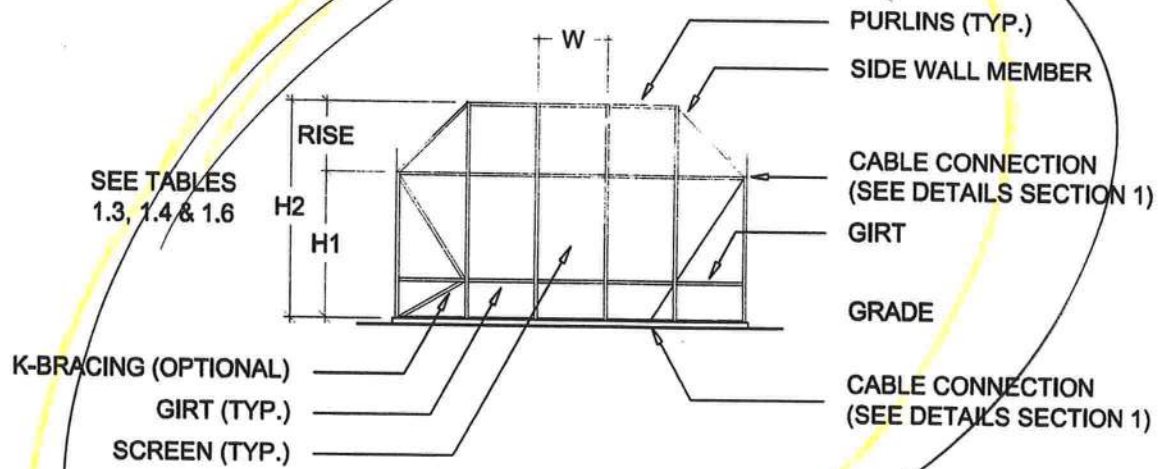
SIGNATURE:

[Signature]

LICENSE #: CGC047465

## SECTION 1

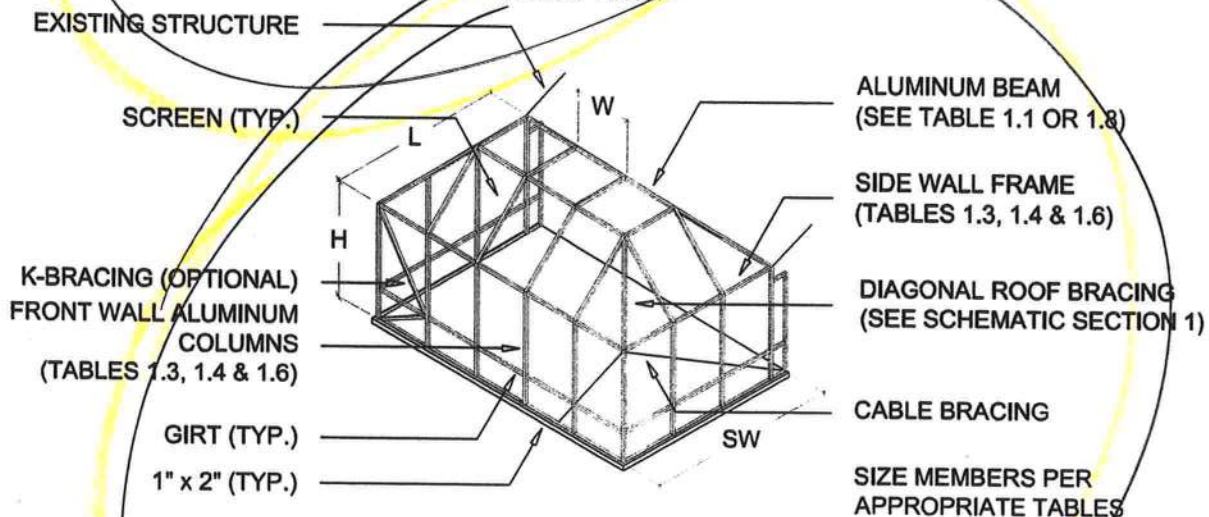
## SCREENED ENCLOSURES



NOTE: USE H2 FOR CABLE AREA CALCULATION

### TYPICAL MANSARD ROOF - FRONT WALL 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 & STRUCTURAL ENGINEERING

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

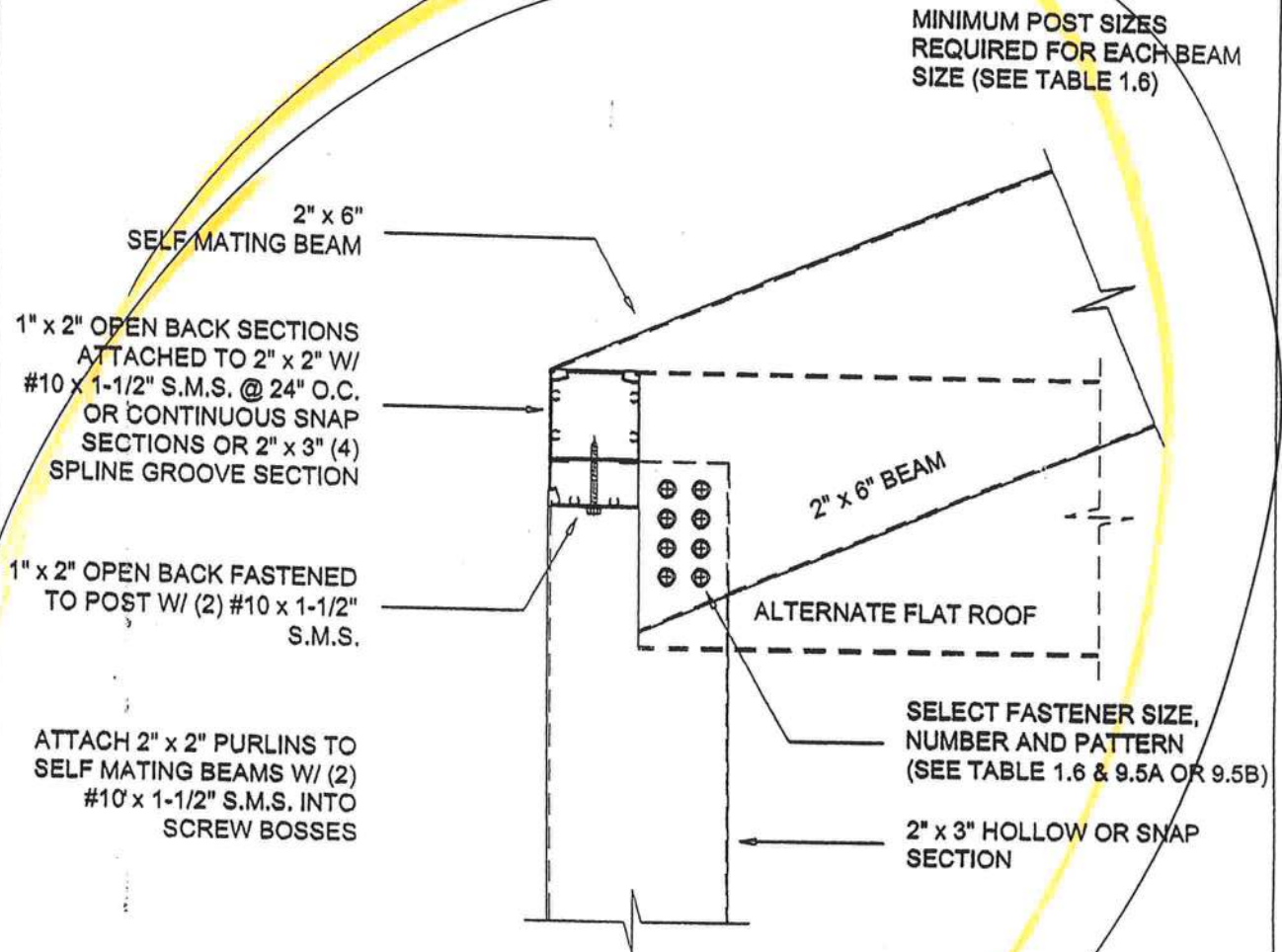
Telephone #: (386) 767-4774 Fax #: (386) 767-6556

Email: lebpe@bellsouth.net



# SCREENED ENCLOSURES

## SECTION 1



**SLOPING BEAM TO UPRIGHT CONNECTION DETAIL (PARTIAL LAP)**

SCALE: 3" = 1'-0"

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

CIVIL & STRUCTURAL ENGINEERING

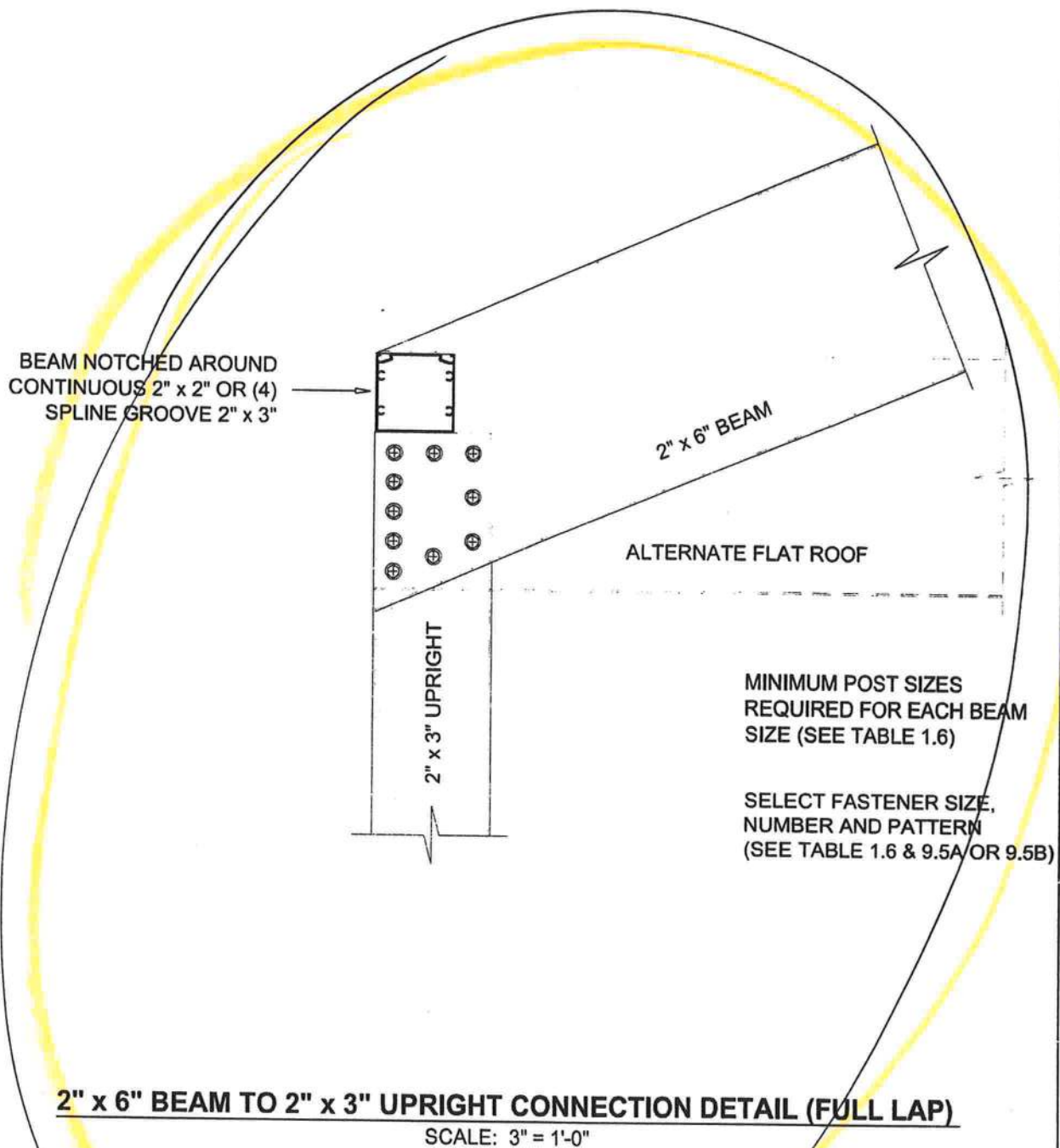
P.O. Box 214368, South Daytona, FL 32121

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

Email: lebpe@bellsouth.net

# SECTION 1

## SCREENED ENCLOSURES



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

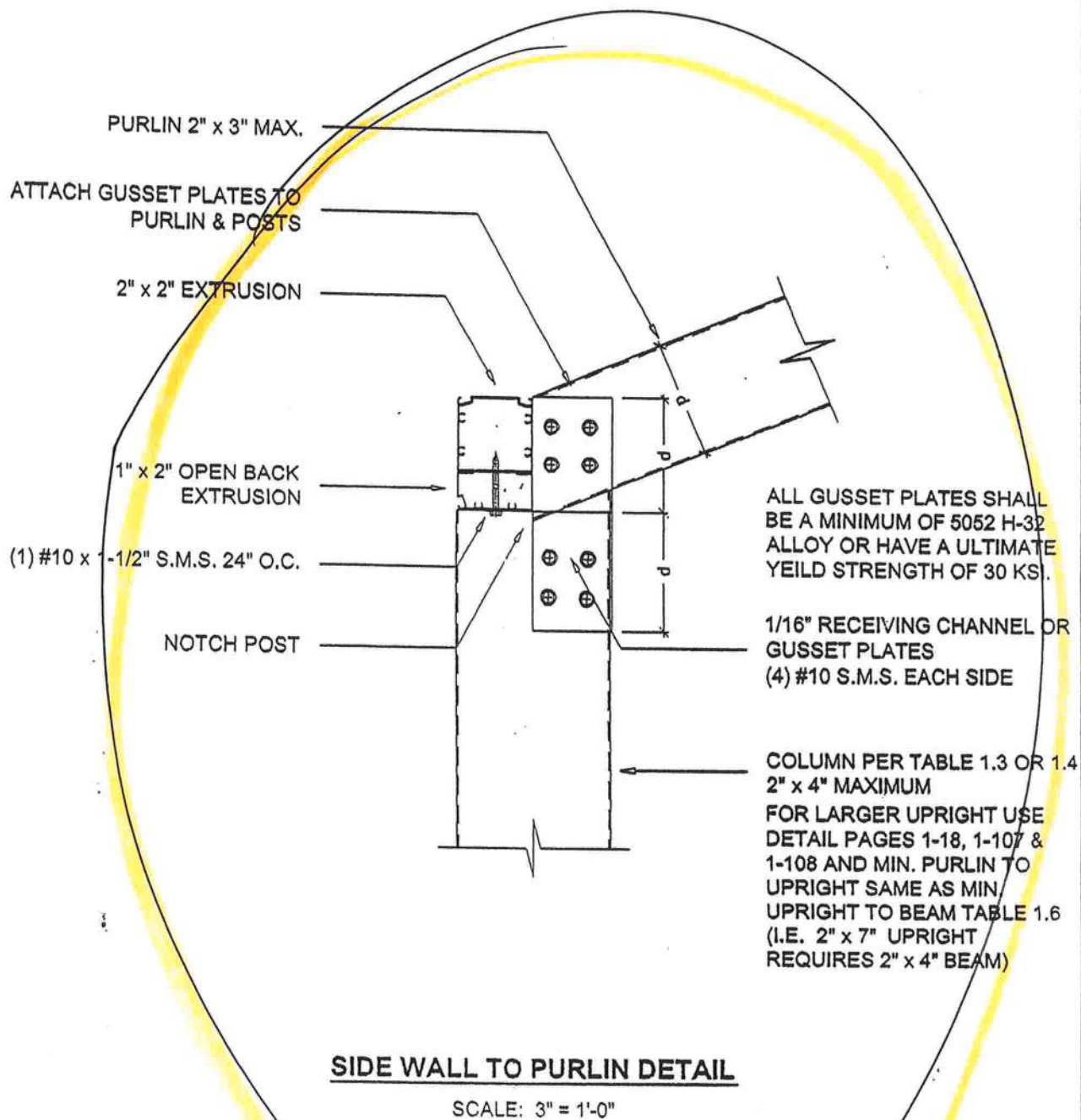
PAGE

1-10

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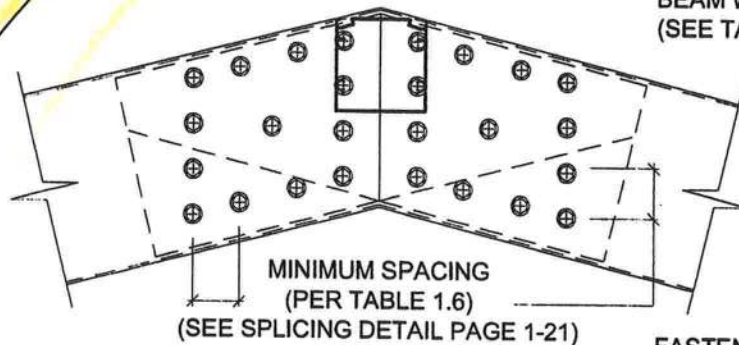


Lawrence E. Bennett, P.E. FL # 16644  
 CIVIL & STRUCTURAL ENGINEERING  
 P.O. Box 214368, South Daytona, FL 32121  
 Telephone #: (386) 767-4774 Fax #: (386) 767-8556  
 Email: lebpe@bellsouth.net

**SECTION 1****SCREENED ENCLOSURES**

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

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

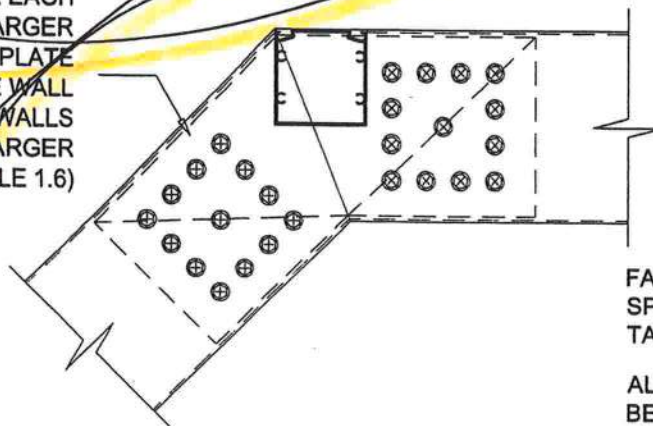


FASTENER SIZE, NUMBER AND  
SPACING PER PAGE 1-20(SEE  
TABLE 1.6)

**ALTERNATE SIDE PLATE CONNECTION DETAIL**  
**GUSSET PLATE MOUNTED INTERNALLY**

SCALE: 3" = 1'-0"

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



FASTENER SIZE, NUMBER AND  
SPACING PER PAGE 1-20(SEE  
TABLE 1.6)

ALL GUSSET PLATES SHALL  
BE A MINIMUM OF 5052 H-32  
ALLOY OR HAVE AN ULTIMATE  
YIELD STRENGTH OF 30 KSI

**ALTERNATE SIDE PLATE CONNECTION DETAIL - MANSARD ROOF**  
**GUSSET PLATE MOUNTED INTERNALLY**

SCALE: 3" = 1'-0"

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

PAGE

**1-20**

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# SCREENED ENCLOSURES

## SECTION 1

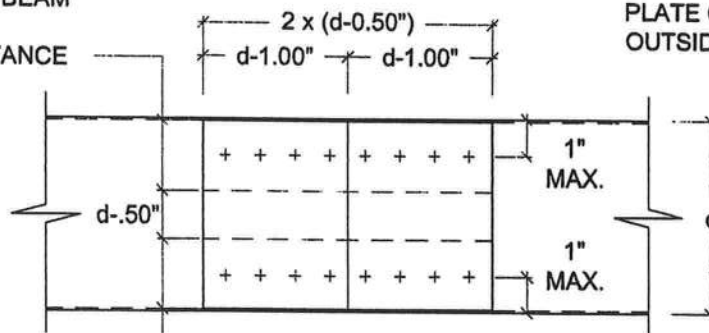
BEAM SPLICE SHALL BE MIN.  
BEAM HEIGHT MINUS 1/2" AND  
2 x (d - .50") LENGTH

d = HEIGHT OF BEAM

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

PLATE CAN BE INSIDE OR  
OUTSIDE BEAM OR LAP CUT

MIN. EDGE DISTANCE



MIN. EDGE DISTANCE

DENOTES SCREW PATTERN  
NOT NUMBER OF SCREWS

FASTENER SIZE, NUMBER AND  
SPACING (SEE TABLE 1.6)

Screw Size	ds (in.)	Minimum Distance and Spacing of Screws*		Gusset Plate	
		Edge to Center 2ds (in.)	Center to Center 2-1/2ds (in.)	Beam Size	Thickness (in.)
#8	0.16	3/8	7/16	2" x 7" x 0.055" x 0.120"	1/16 = 0.063
#10	0.19	3/8	1/2	2" x 8" x 0.072" x 0.224"	1/8 = 0.125
#12	0.21	7/16	9/16	2" x 9" x 0.072" x 0.224"	1/8 = 0.125
#14 or 1/4"	0.25	1/2	5/8	2" x 9" x 0.082" x 0.306"	1/8 = 0.125
5/16"	0.31	5/8	3/4	2" x 10" x 0.092" x 0.369"	1/4 = 0.25

\* refers to each side of splice

\*\* use for 2" x 4" and 2" x 6" also

Note:

1. All gusset plates shall be minimum 5052 H-32 Alloy or have a minimum yield of 30 ksi.

## TYPICAL BEAM SPLICE DETAIL

SCALE: 3" = 1'-0"

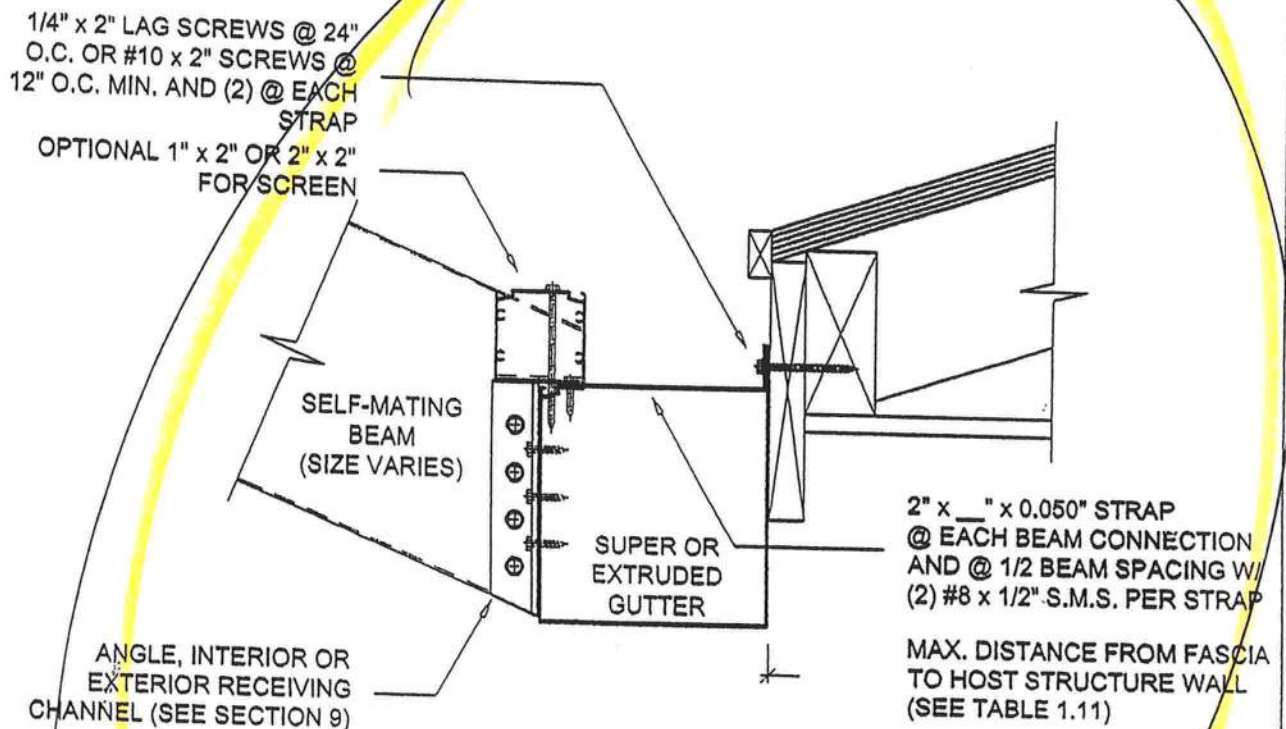
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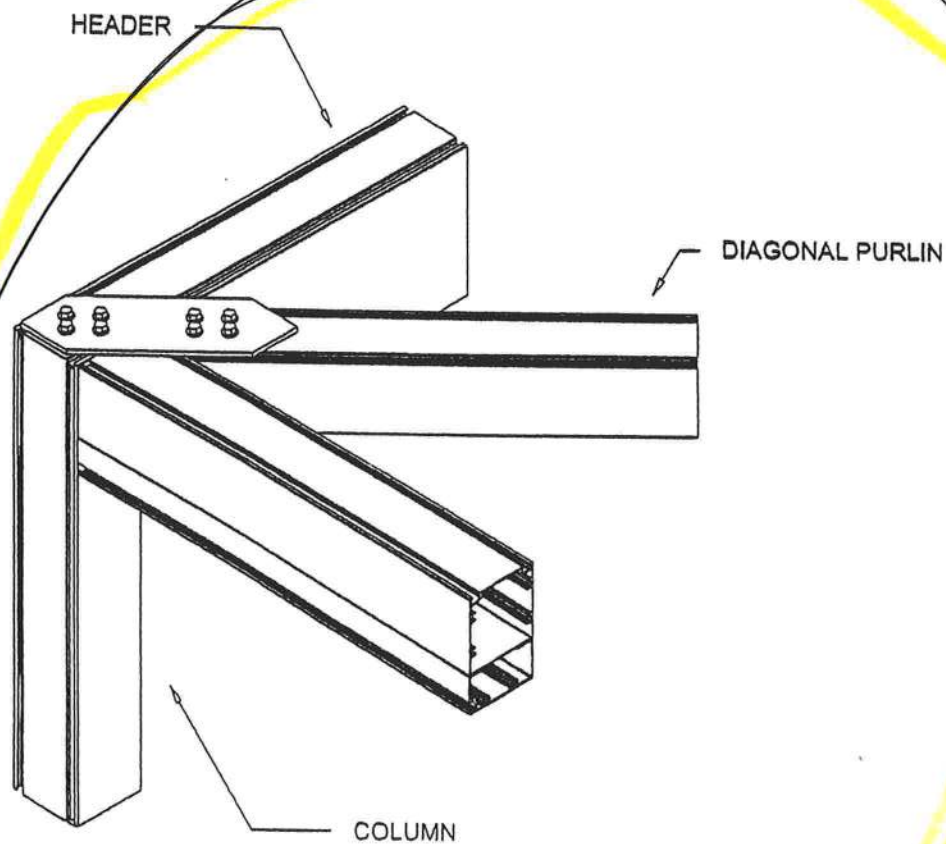
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**ALTERNATE SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER**

SCALE: 3" = 1'-0"

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 CIVIL & STRUCTURAL ENGINEERING  
 P.O. Box 214388, South Daytona, FL 32121  
 Telephone #: (386) 767-4774 Fax #: (386) 767-6566  
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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 three panels from host structure. Structures of four or more panels shall be spaced for even number of panels for opposing wind bracing.
2. Cut brace parts with min. 12" lap of larger and smaller brace.
3. Cut receiving channel with angle.

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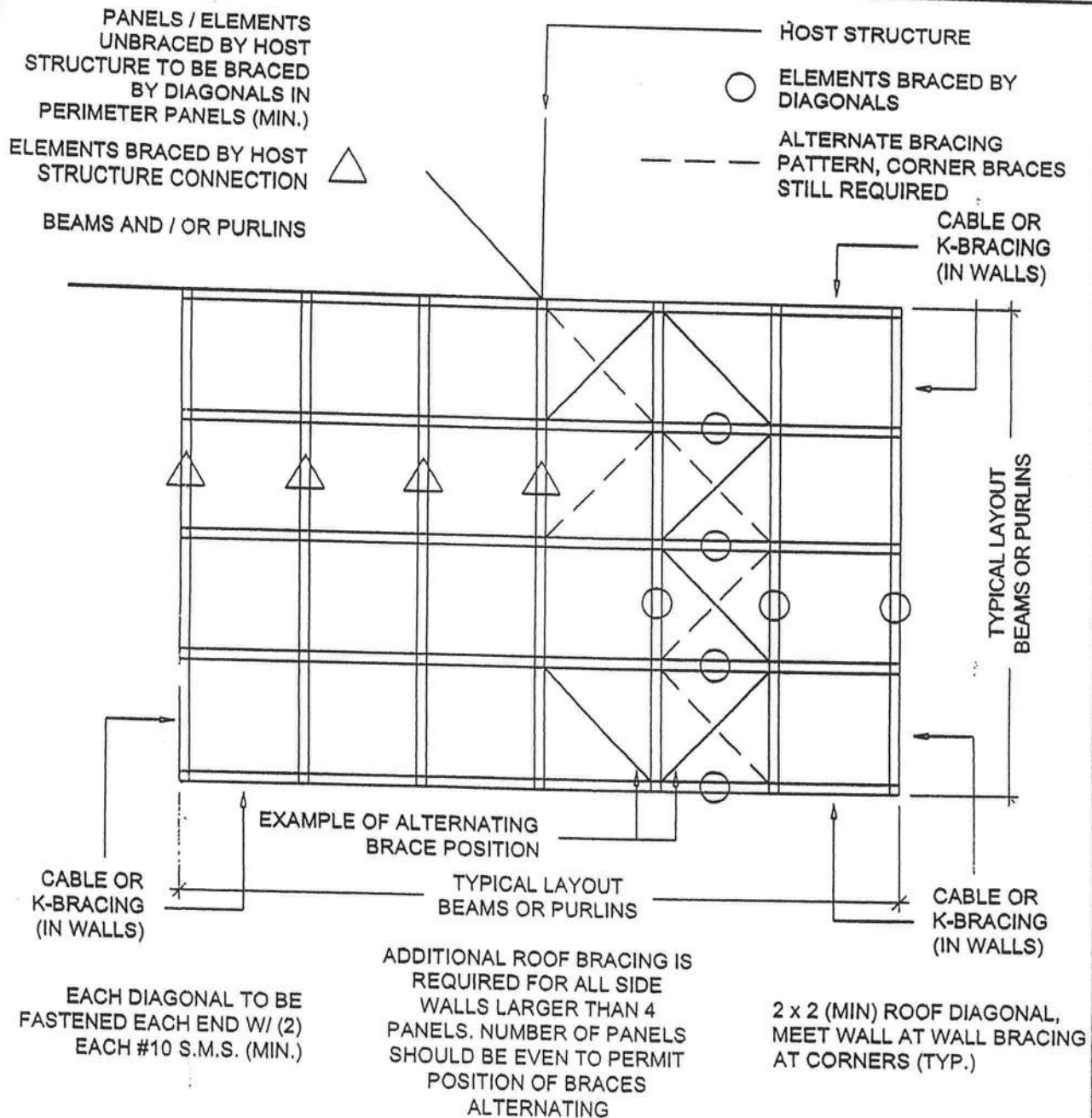
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# SECTION 1

## SCREENED ENCLOSURES



(POOL ENCLOSURE SCREEN ROOF MAY BE FLAT, GABLE, MANSARD, DOME, OR HIP)  
**POOL ENCLOSURE DIAGONAL BRACING - SCHEMATIC PLAN VIEW**

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

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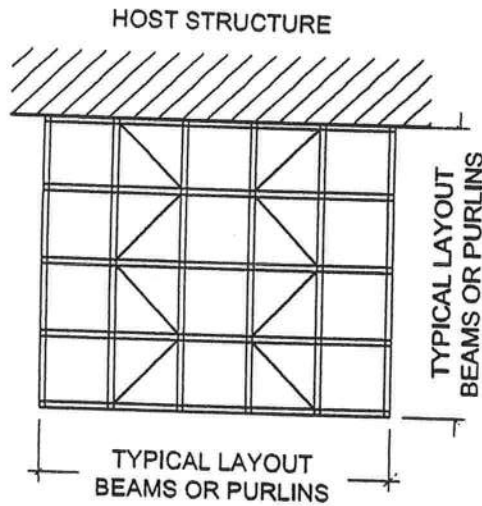
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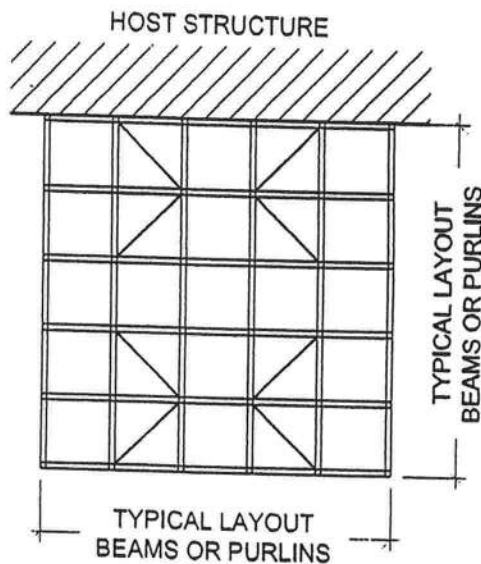
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**WIND BRACING PATTERN**  
**TYPICAL FOR EVEN NUMBER OF SIDE PANELS OVER 4**  
 SCALE: 3/16" = 1'-0"

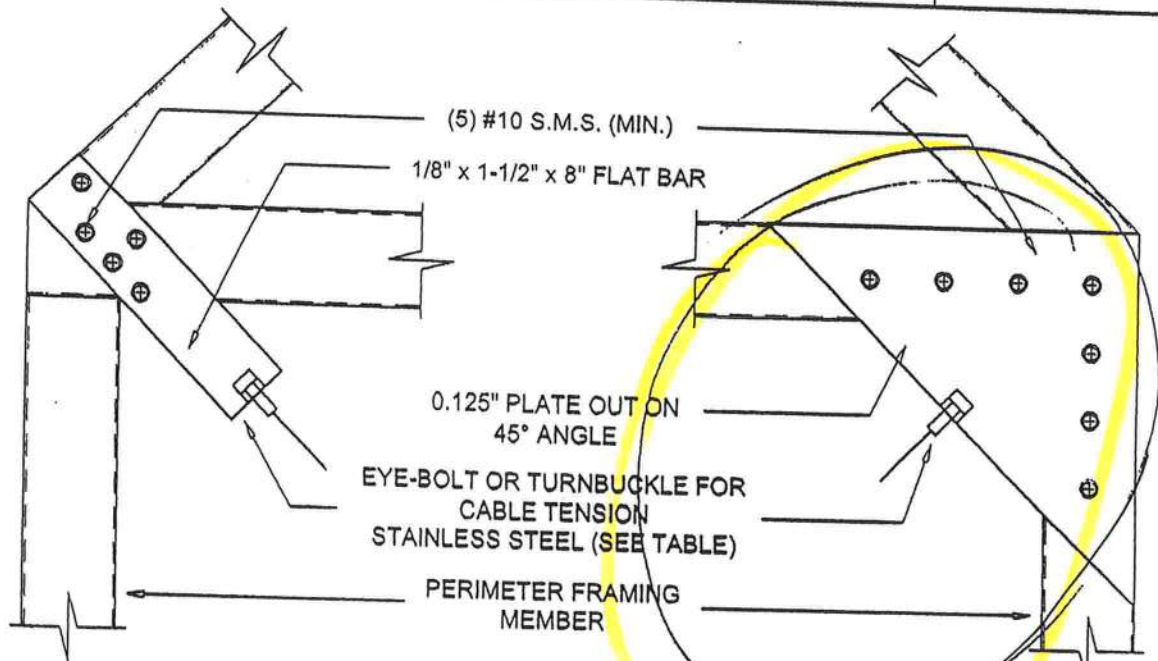


**WIND BRACING PATTERN**  
**TYPICAL FOR ODD NUMBER OF SIDE PANELS OVER 4**  
 SCALE: 3/16" = 1'-0"

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  
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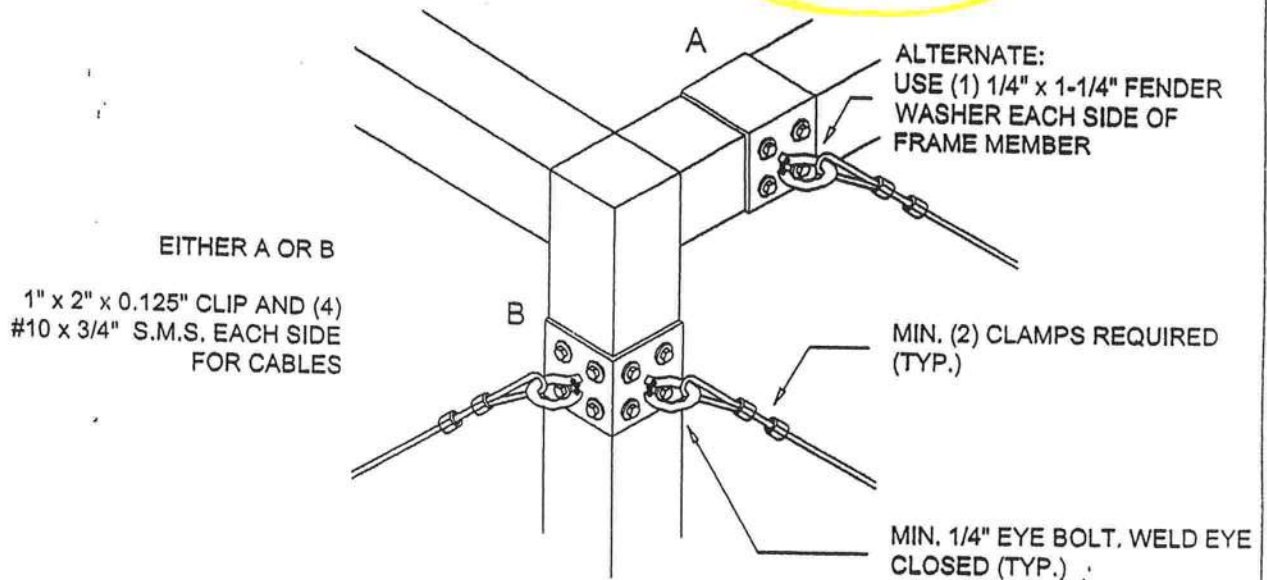
# SCREENED ENCLOSURES

## SECTION 1



**TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1**

SCALE: 3" = 1'-0"



**ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A**

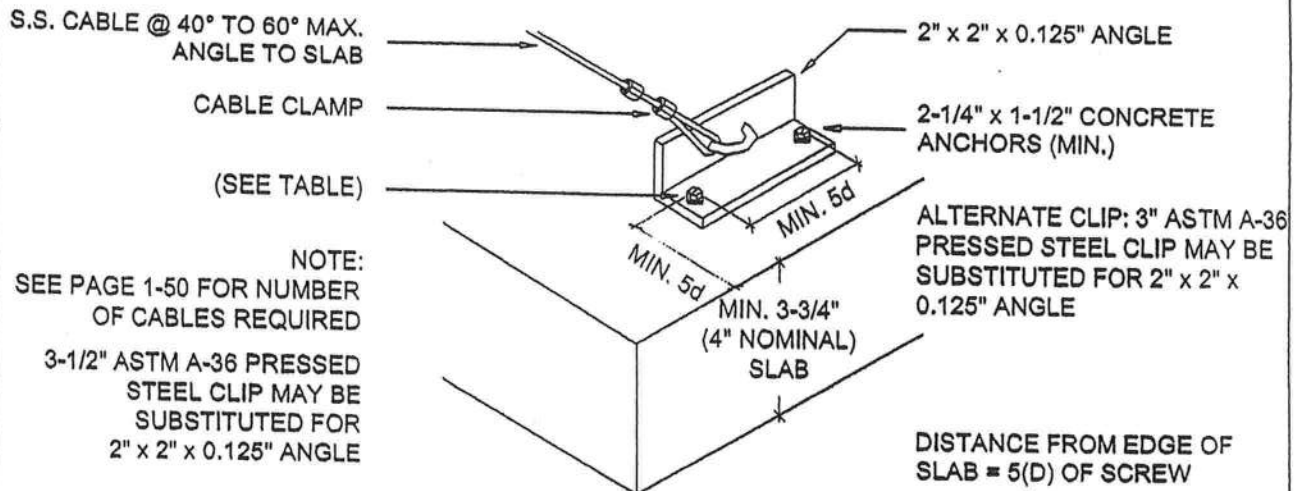
SCALE: 3" = 1'-0"

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 Telephone #: (386) 767-4774 Fax #: (386) 767-8556  
 Email: lebpe@bellasouth.net



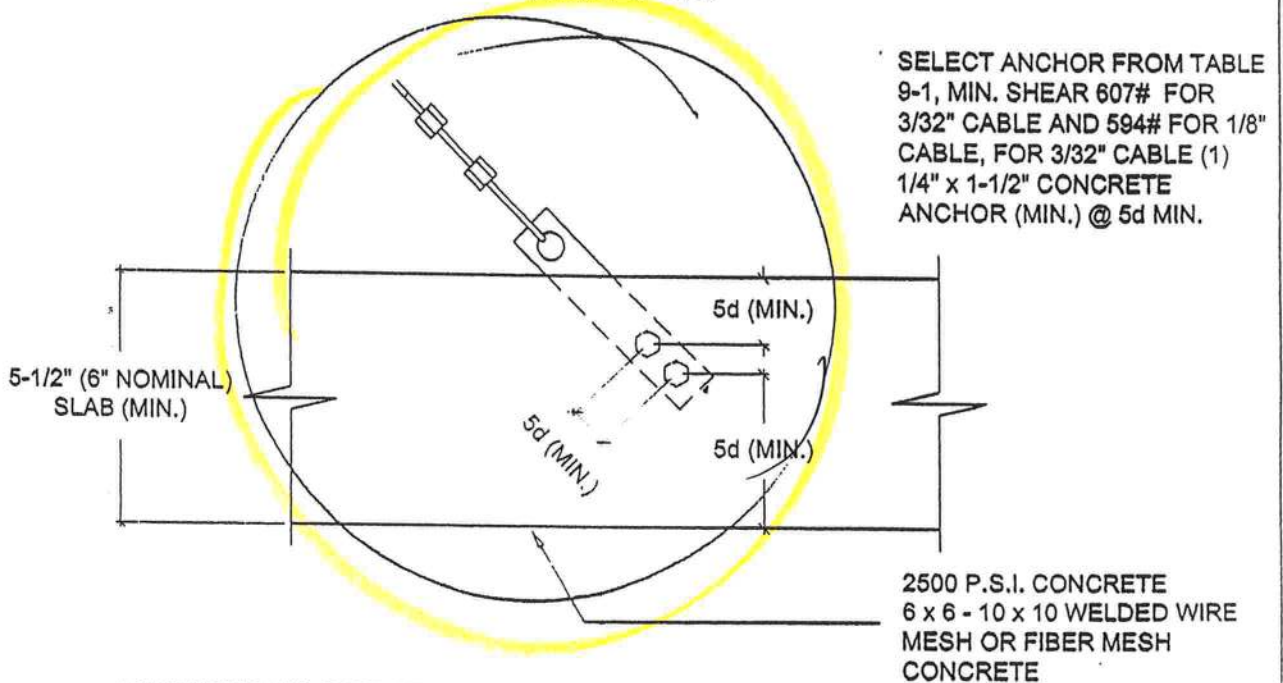
# SCREENED ENCLOSURES

## 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"

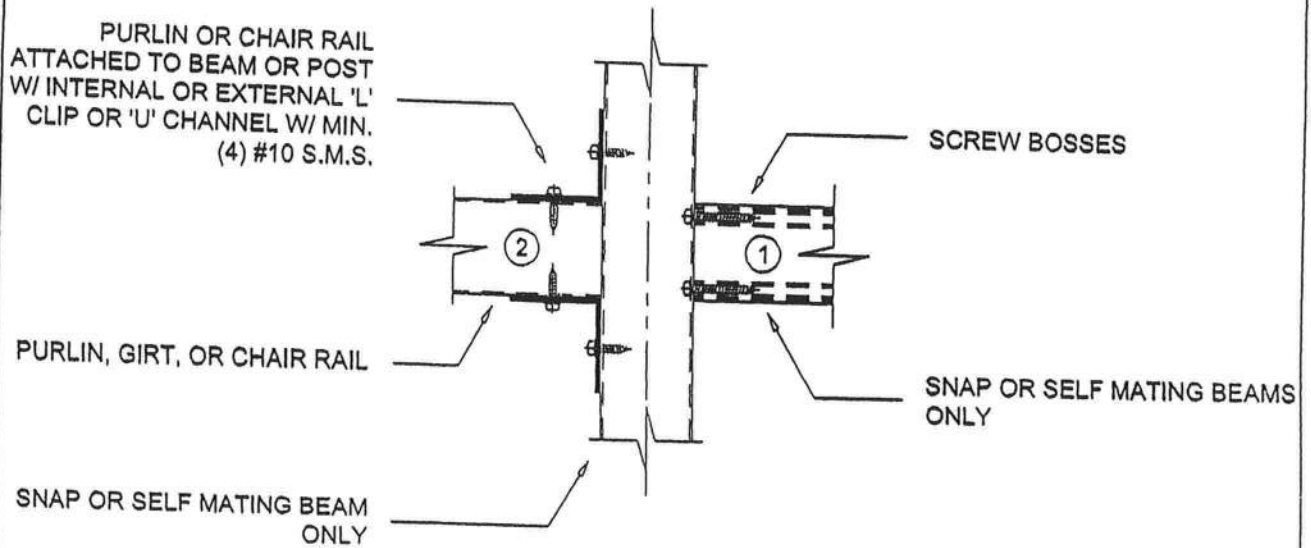
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P.O. Box 214366, South Daytona, FL 32121

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

Email: lebbe@bellsouth.net



**PURLIN TO BEAM OR GIRT TO POST DETAIL**

SCALE: 3" = 1'-0"

- ① FOR WALLS LESS THAN 6'-8" FROM TOP OF PLATE TO CENTER OF BEAM CONNECTION OR BOTTOM OF TOP RAIL THE GIRT IS DECORATIVE AND SCREW HEADS MAY BE REMOVED AND INSTALLED IN PILOT HOLES
  - ② FOR ALL OTHER PURLINS AND GIRTS IF THE SCREW HEADS ARE REMOVED THEN THE OUTSIDE OF THE CONNECTION MUST BE STRAPPED FROM GIRT TO POST WITH 0.050" x 1-3/4" x 4" STRAP AND (4) #10 x 3/4" S.M.S. SCREWS TO POST AND GIRT
- IF GIRT IS ON BOTH SIDES OF THE POST THEN STRAP SHALL BE 6" LONG AND CENTERED ON THE POST AND HAVE A TOTAL (12) #10 x 3/4" S.M.S.

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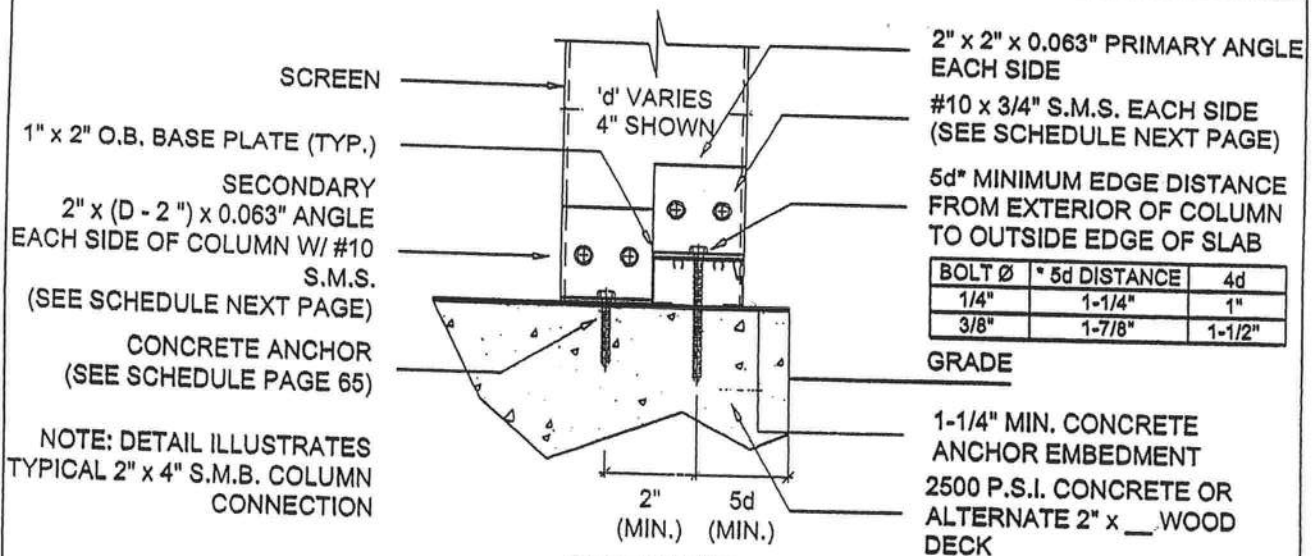
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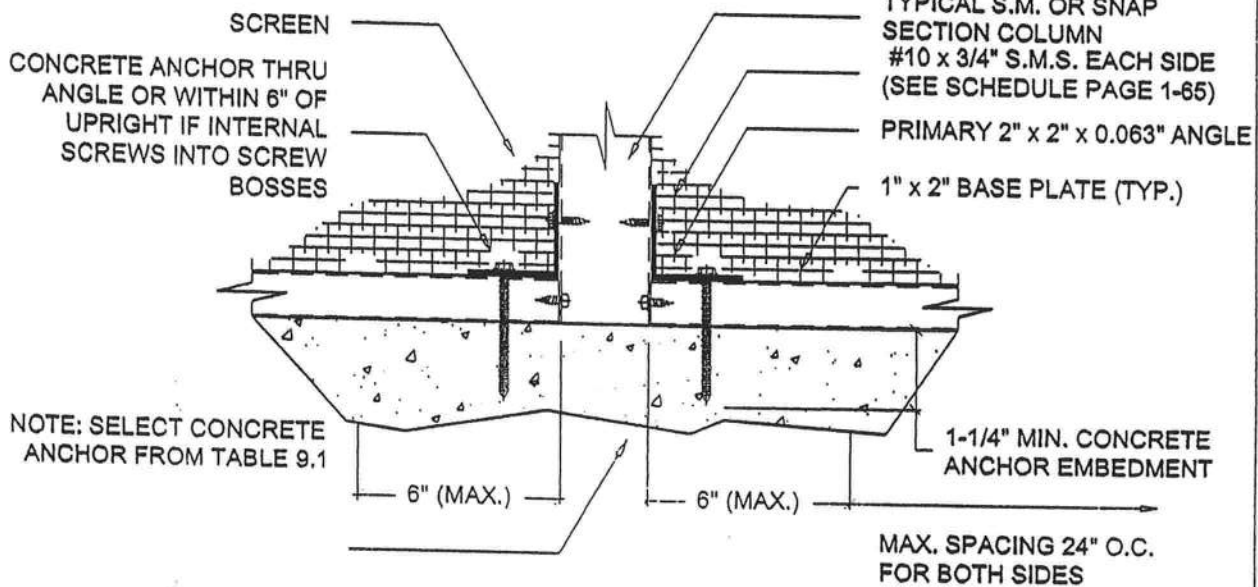
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# SECTION 1

## 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.

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

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214388, South Daytona, FL 32121

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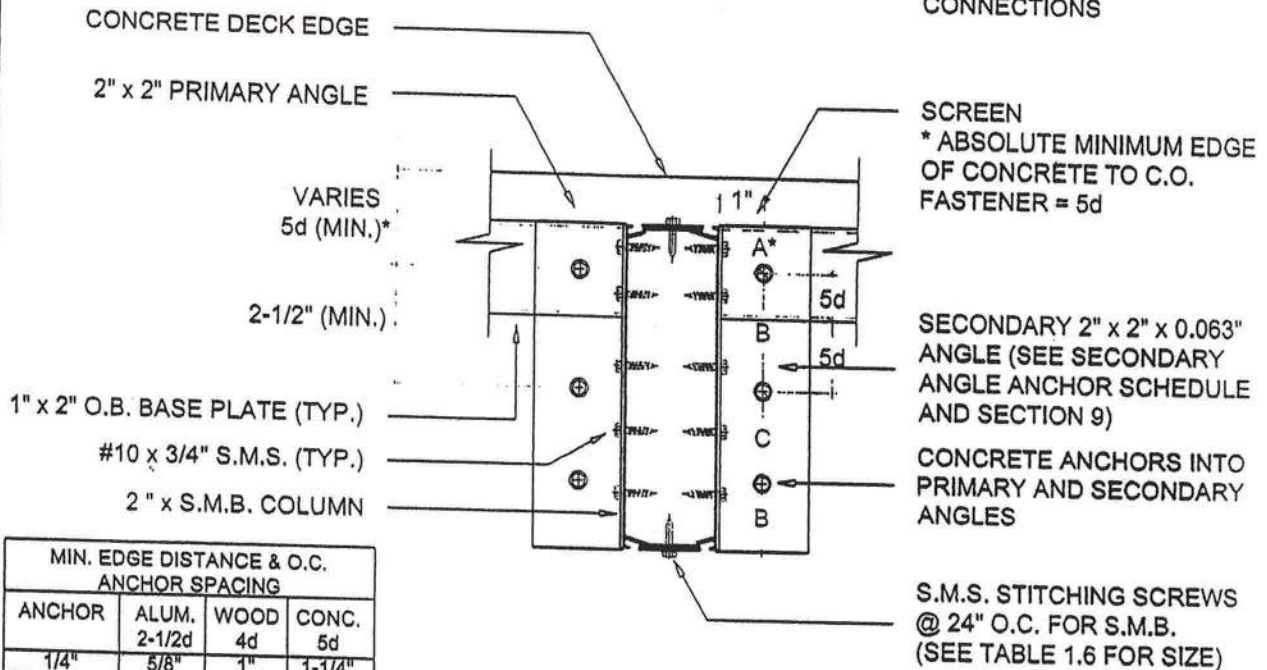
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# SCREENED ENCLOSURES

## SECTION 1

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



MIN. EDGE DISTANCE & O.C. ANCHOR SPACING			
ANCHOR	ALUM. 2-1/2d	WOOD 4d	CONC. 5d
1/4"	5/8"	1"	1-1/4"
5/16"	25/32"	1-1/4"	1-9/16"
3/8"	15/16"	1-1/2"	1-7/8"

TOP VIEW POST TO DECK DETAIL

SCALE: 3" = 1'-0"

Primary and Secondary Anchor Schedule

Column Size	Secondary Angle				Maximum Number and Spacing Anchors											
	Angle Length "L"	Number of Anchors			1/4"				5/16"				3/8"			
		1/4"	5/16"	3/8"	#	"A"	"B"	"C"	#	"A"	"B"	"C"	#	"A"	"B"	"C"
2 x 4	2"	4	4	4	4	1"	1"	1"	4	1"	1"	1"	4	1"	1"	1"
2 x 5	3"	4	4	4	4	1"	1-1/2"	-	4	1"	1-1/2"	-	4	1"	1-1/2"	-
2 x 6	4"	4	4	4	4	1"	2"	-	4	1"	2"	-	4	1"	2"	-
2 x 7	5"	6	4	4	6	1"	5/8"	1-7/8"	4	1"	2-1/2"	-	4	1"	2-1/2"	-
2 x 8	6"	6	4	4	6	1"	5/8"	2-3/8"	4	1"	3"	-	4	1"	3"	-
2 x 9	7"	8	6	4	6	1"	5/8"	2-7/8"	6	1"	13/16"	2-7/8"	4	1"	3-1/2"	-
2 x 10	8"	8	6	6	8	1"	5/8"	2"	6	1"	13/16"	3-3/16"	6	1"	3/4"	3-1/4"

Example:

Example:

Calculate the number of anchors required:  $1.5 \times \text{beam span} / 2 \times \text{beam spacing} \times \text{roof wind pressure (PSF)} = \text{total \#}$   
If  $1.5 \times 30' / 2 \times 6' \times 10 \text{ PSF} = 1350\#$  and  $1/4" \times 1/4"$  Tapcon in tension @  $5d = 427\# / \text{ea.}$  (see table 9.1)  
then  $1350\# / 427\# / \text{ea.} = 3.16 \text{ ea.}$  use (3) ea., secondary angle not required

Actual Edge Distance Example:

From edge of concrete to fastener =  $2" / \text{dla. of } 0.25" = 8d$

Note:

For attachment to wood deck substitute wood fasteners for concrete fasteners & calculate the required number of fasteners using tables from section 9.

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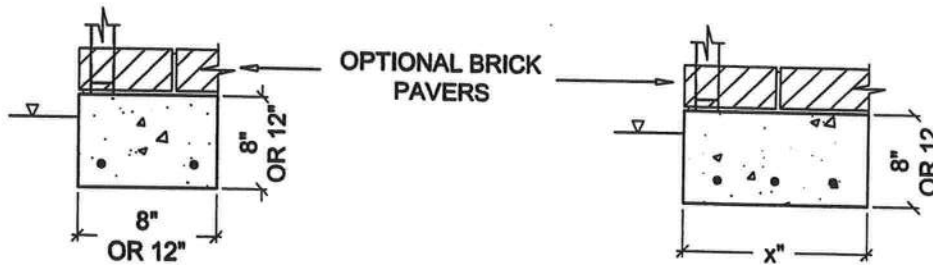
P.O. Box 214368, South Daytona, FL 32121

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

Email: lebpe@bellsouth.net

# SCREENED ENCLOSURES

## SECTION 1



ALUMINUM STRUCTURE  
(16' MAX. HEIGHT SIDE WALL  
ONLY)  
FOOTING 2500 PSI CONCRETE  
W/ (1) #5Ø OR (2) #3Ø CONT.  
BARS MIN. 2-1/2" OFF GROUND

### RIBBON FOOTING - TYPE 1

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

ALUMINUM STRUCTURE  
(ALL FRONT WALLS)  
FOOTING 2500 PSI CONCRETE  
W/ (n1) #3Ø OR (n2) #5Ø BARS  
CONTINUOUS BARS MIN. 2-1/2" OFF  
GROUND

### RIBBON FOOTING - TYPE 2

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

### Allowable Beam Span for Wind Zone & Exposure Category

Ribbon Footing Data				100-125 MPH		126-134 MPH		135-144 MPH		145-150 MPH		Areas sq. in.		Number of Bars	
Depth	x	n1*	n2**	B	C	B	C	B	C	B	C	Footing	Steel	#3Ø	#5Ø
8"	8"	2	1	15.4'	12.8'	15.4'	11.0'	12.8'	9.5'	11.0'	8.5'	64	0.12	2	1
12"	8"	2	1	23.0'	19.2'	23.0'	16.5'	19.2'	14.4'	16.5'	12.8'	72	0.13	2	1
8"	12"	2	1	23.0'	19.2'	23.0'	16.5'	19.2'	14.4'	16.5'	12.8'	72	0.13	2	1
12"	12"	3	2	24.0'	20.0'	24.0'	17.1'	17.1'	15.0'	17.1'	13.3'	144	0.26	3	2
12"	16"	3	2	37.9'	26.6'	31.9'	21.9'	25.6'	19.2'	21.9'	17.1'	192	0.35	4	2
12"	18"	3	2	36.0'	30.0'	36.0'	25.7'	30.0'	22.5'	25.7'	20.0'	216	0.39	4	2
12"	24"	4	3	48.0'	40.0'	48.0'	34.3'	40.5'	30.0'	34.3'	26.7'	288	0.52	-	2
12"	30"	4	3	57.6'	48.0'	57.6'	41.1'	48.0'	36.0'	41.1'	32.0'	360	0.65	-	3
12"	36"	5	4	69.1'	57.6'	69.1'	49.4'	57.6'	43.2'	49.4'	38.4'	432	0.78	-	3
Nominal 4" Slab				100-125 MPH		126-134 MPH		135-144 MPH		145-150 MPH					
Depth				B	C	B	C	B	C	B	C				
3-1/2"				50.4'	42.0'	50.4'	36.0'	42.0'	31.5'	36.0'	28.0'				

\*n1 = number of #3Ø bars @ 0.11 sq. in. grade 60 steel

\*\*n2 = number of #5Ø bars @ 0.31 sq. in grade 60 steel

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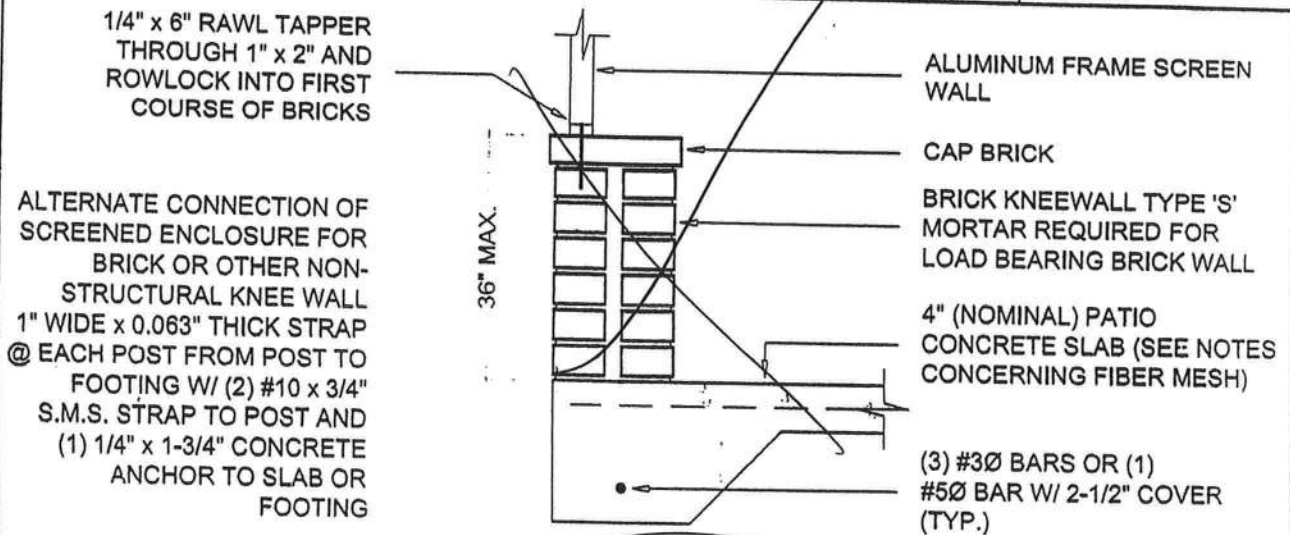
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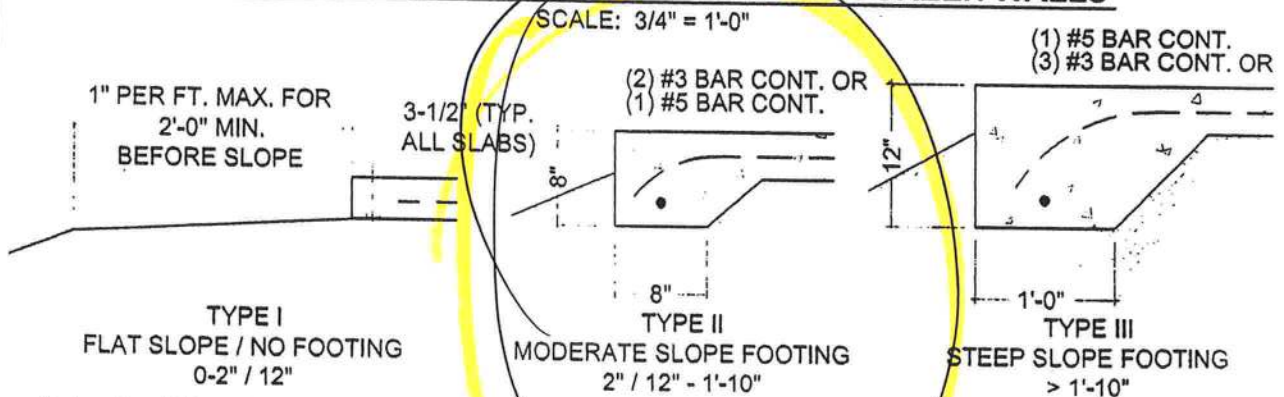


# SCREENED ENCLOSURES

## SECTION 1



### BRICK KNEEWALL AND FOUNDATION FOR SCREEN WALLS



#### Notes for all foundation types:

1. The foundations shown are based on a minimum soil bearing pressure of 1,500 PSF. Bearing capacity of soil shall be verified prior to placing slab by field soil test (soil penetrometer) or a soil testing lab.
2. The slab / foundation shall be cleared of debris, roots and compacted prior to placement of concrete.
3. No footing is required except when addressing erosion until the slab width in the direction of the primary beams exceeds the span per table on page 1-69, then a type II slab is required under the load bearing wall only unless the side wall exceeds 16' in height or the enclosure is in a "C" exposure category in which case a type II footing is required.
4. Monolithic slabs and footings shall be minimum 2,500 psi concrete with 6 x 6 - 10 x 10 welded wire mesh or crack control fiber mesh; Fibermesh® Mesh, InForce™ e3™ (Formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh. All slabs / footings shall be allowed to cure for 7 days before installing anchors.
5. If local codes require a minimum footing use Type II footing or footing section required by local code. Local codes govern.

### SLAB-FOOTING DETAILS

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

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

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214388, South Daytona, FL 32121

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

Email: lebpe@bellsouth.net



## 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

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"**

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 1.2 120 Allowable Spans for Secondary Screen Roof Frame Members**

**Aluminum Alloy 6063 T-6**

For Wind Zones up to 120 M.P.H., Exposure "B", and Latitudes Below 30°-30'-00" North (Jacksonville, FL)

Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered

**A. Sections Fastened To Beams With Clips**

Hollow Sections	Tributary Load Width 'W' = Purlin Spacing							
	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)							
2" x 2" x 0.044"	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb
2" x 2" x 0.090"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd
3" x 2" x 0.045"	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb
3" x 2" x 0.070"	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd
2" x 3" x 0.045"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb
2" x 5" x 0.062"	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd

Snap Sections	Tributary Load Width 'W' = Purlin Spacing							
	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)							
2" x 2" x 0.044"	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb
2" x 3" x 0.045"	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd
2" x 4" x 0.045"	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd

**B. Sections Fastened Through Beam Webs Into Screw Bosses**

Hollow Sections	Tributary Load Width 'W' = Purlin Spacing							
	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)							
2" x 3" x 0.050"	11'-5"	Pb	11'-5"	Pb	11'-5"	Pb	11'-4"	Ud
2" x 4" x 0.050"	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb
2" x 5" x 0.062"	22'-4"	Pd	22'-4"	Pd	22'-4"	Pd	21'-7"	Ud

Snap Sections	Tributary Load Width 'W' = Purlin Spacing							
	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-8"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)							
2" x 2" x 0.044"	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb

**Notes:**

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
  2. Span is measured from center of beam and upright connection to fascia or wall connection.
  3. Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
  4. Spans may be interpolated.
  5. 2" x 4" & 2" x 5" Hollow Girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0.044" angle.
  6. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.
- CHECK TABLE 1.6 FOR MINIMUM UPRIGHT SIZE FOR BEAMS.  
 Example: Max. 'L' for 2" x 4" x 0.050" hollow section fastened to beam with clips with 'W' = 5'-0" = 9'-1"

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



## SECTION 1

## SCREENED ENCLOSURES

**Table 1.3 110 Allowable Post / Upright Heights for Primary Screen Wall Frame Members**  
**Aluminum Alloy 6063 T-6**

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 #/sq. ft.

Hollow Sections	Tributary Load Width 'W' = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	5'-1"	b	4'-8"	b	4'-3"	b	3'-11"	b
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	b	6'-7"	b	6'-1"	b	5'-9"	b
2" x 3" x 0.045"	8'-4"	d	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	b	5'-6"	b
2" x 4" x 0.050"	11'-2"	b	9'-7"	b	8'-6"	b	7'-9"	b	7'-1"	b	6'-7"	b	6'-1"	b
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	11'-11"	b	11'-0"	b	10'-3"	b	9'-7"	b

Self Mating Sections	Tributary Load Width "W" = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 4" x 0.044 x 0.100"	11'-11"	d	10'-10"	d	10'-0"	d	9'-5"	b	8'-8"	b	8'-0"	b	7'-6"	b
2" x 5" x 0.050" x 0.100"	14'-9"	d	13'-5"	d	12'-5"	d	11'-7"	b	10'-8"	b	9'-11"	b	9'-4"	b
2" x 6" x 0.050" x 0.120"	17'-3"	d	15'-8"	d	14'-4"	b	13'-1"	b	12'-0"	b	11'-3"	b	10'-6"	b
2" x 7" x 0.055" x 0.120"	19'-8"	d	17'-6"	b	15'-7"	b	14'-2"	b	13'-1"	b	12'-2"	b	11'-5"	b
2" x 8" x 0.072" x 0.224"	24'-4"	d	22'-1"	d	20'-6"	d	19'-4"	d	18'-4"	d	17'-6"	d	16'-10"	d
2" x 9" x 0.072" x 0.224"	26'-8"	d	24'-3"	d	22'-6"	d	21'-2"	d	20'-1"	d	19'-3"	d	18'-2"	b
2" x 9" x 0.082" x 0.310"	28'-8"	d	26'-0"	d	24'-2"	d	22'-9"	d	21'-7"	d	20'-8"	d	19'-10"	d
2" x 10" x 0.092" x 0.369"	33'-3"	d	30'-3"	d	28'-1"	d	26'-5"	d	25'-1"	d	23'-11"	d	23'-1"	d

Snap Sections	Tributary Load Width "W" = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	5'-3"	d	4'-10"	b	4'-5"	b	4'-1"	b
2" x 3" x 0.045"	8'-10"	d	8'-1"	d	7'-6"	d	6'-11"	b	6'-3"	b	5'-9"	b	5'-3"	b
2" x 4" x 0.045"	11'-2"	d	10'-2"	d	9'-2"	b	8'-2"	b	7'-5"	b	6'-9"	b	6'-2"	b
2" x 6" x 0.062"	18'-3"	d	16'-7"	d	15'-5"	d	14'-6"	d	13'-9"	d	13'-2"	d	12'-8"	d
2" x 7" x 0.062"	20'-7"	d	18'-9"	d	17'-5"	d	16'-4"	d	15'-7"	d	14'-10"	d	14'-2"	b

**Notes:**

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Using screen panel width "W" select upright length "H".
3. Above heights do not include length of knee brace. Add vertical distance from upright to center of brace to beam connection to the above spans for total beam spans.
4. Site specific engineering required for pool enclosures over 30' in mean roof height.
5. Height is to be measured from center of beam and upright connection to fascia or wall connection.
6. Chair rails of 2" x 2" x 0.044" min. and set @ 36" in height are designed to be residential guardrails provided they are attached with min. (3) #10 x 1-1/2" S.M.S. into the screw bosses and do not exceed 8'-0" in span.
7. Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"
8. Spans may be interpolated.
9. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

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



## SECTION 1

## SCREENED ENCLOSURES

**Table 1.4 110 Allowable Post / Girt / Chair Rail Spans, Header Spans & Upright Heights for Secondary Screen Wall Frame Members**

Aluminum Alloy 6063 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 # / sq. ft.

A. Sections As Horizontals Fastened To Posts With Clips

Hollow Sections	Tributary Load Width "W" = Upright Spacing						
	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	Allowable Height "H" or Span "L" / bending (b), deflection (d)						
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	4'-3"
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	4'-5"
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	5'-9"
3" x 2" x 0.045"	8'-4"	d	7'-4"	b	6'-6"	b	4'-7"
3" x 2" x 0.070"	9'-5"	d	8'-6"	d	7'-9"	d	5'-7"
2" x 3" x 0.045"	8'-4"	d	7'-7"	d	6'-11"	d	5'-6"
2" x 4" x 0.050"	11'-2"	b	9'-7"	b	8'-6"	b	6'-1"
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	9'-7"

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

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)						
3" x 2" x 0.045"	9'-7"	b	8'-3"	b	7'-3"	b	5'-1"
3" x 2" x 0.070"	11'-5"	b	9'-10"	b	8'-8"	b	6'-3"
2" x 3" x 0.045"	11'-2"	d	9'-9"	b	8'-8"	b	6'-2"
2" x 4" x 0.050"	12'-6"	b	10'-9"	b	9'-6"	b	6'-10"
2" x 5" x 0.062"	19'-3"	b	16'-7"	b	14'-9"	b	10'-9"

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

**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/heights to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

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

## 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 0.082" x 0.369"	0.250"
3/8"	1"	2"		

\* 0.082" wall thickness, 0.310" flange thickness

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

Connection Example:

2" x 7" beam & 2" x 5" at beam & gusset plate, (14) #8 x 1/2" sms & upright & gusset plate  
(14) #8 x 1/2" sms ea. side of beam & upright.

Note:

1. Connection of 2" x 6" to 2" x 4" shall use a full lap cut or 1/16" gusset plate.
2. For beam splice connections the number of screws shown is the total for each splice with 1/2 the screws on each side of the cut.
3. The number of screws is based on the maximum allowable moment of the beam.
4. The number of deck anchors is based on RAWL R Tapper allowable load data for 2,500 psi concrete and / or equal anchors may be used. The number shown is the total use 1/2 per side.
5. Hollow splice connections can be made provided the connection is approved by the engineer.
6. If a larger than minimum upright is used the number of screws is the same for each splice with 1/2 the screws on each side of the cut.
7. The side wall upright shall have a minimum beam size as shown above, i.e., a 2" x 4" upright shall have a 2" x 3" beam.
8. For minimum girt size read upright size as a beam and purlin size is minimum girt size. (i.e. 2" x 9" x 0.072" x 0.224" s.m.b. w/ 2" x 6" x 0.050 x 0.120" s.m.b. upright requires a 2" x 3" x 0.045" girt / chair rail.)

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

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214388, South Daytona, FL 32121

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

Email: lebpe@bellsouth.net

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