

DATE 11/21/2008

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

PERMIT
000027493

APPLICANT CRAIG TIMBERLAKE PHONE 352 472-6850
ADDRESS 2537 NW 8TH PLACE NEWBERRY FL 32669
OWNER WILLIAM & DORCAS SIMMONS PHONE 755-9271
ADDRESS 517 NW HORIZON STREET LAKE CITY FL 32055
CONTRACTOR RICKY HELMS/TIMBERLAKE PHONE 352 472-6850
LOCATION OF PROPERTY 90W, TR BROWN RD, TL HORIZON, 6TH LOT ON RIGHT

TYPE DEVELOPMENT POOL ENCLOSURE ESTIMATED COST OF CONSTRUCTION 17299.00
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 X DEVELOPMENT PERMIT NO.

PARCEL ID 28-3S-16-02374-011 SUBDIVISION FAIRFIELD HILLS
LOT 11 BLOCK PHASE UNIT TOTAL ACRES

SCC056710
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING X08-371 BK WR N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE, IMPACT EXEMPT, ADDITION TO EXISTING RESIDENCE

Check # or Cash 1744

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 90.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 90.00
INSPECTORS OFFICE CLERKS OFFICE

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

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

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 TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

NOTICE OF COMMENCEMENT

STATE OF FLORIDA COUNTY OF Columbia **CITY OF** Lake City

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

DESCRIPTION OF PROPERTY:

LOT 11 BLOCK SECTION 28 TOWNSHIP 3 RANGE 16
TAX PARCEL # 28 35 16 02 374-011 NX
SUBDIVISION: Fairfield Hills
PLATBOOK: MAP PAGE#
STREET ADDRESS: 517 NW Horizon St.
Lake City FL 32055

GENERAL DESCRIPTION OF IMPROVEMENT:

TO CONSTRUCT: Screen Enclosure

OWNER INFORMATION:

OWNER(S) NAME: William & Dorcas Simmons
ADDRESS: 517 NW Horizon St PHONE 755 9271
CITY: Lake City STATE FL ZIP 32025
INTEREST IN THE PROPERTY: Owner
FEE SIMPLE TITLEHOLDER NAME: N/A
FEE SIMPLE TITLEHOLDER ADDRESS: (IF OTHER THAN OWNER)

CONTRACTOR NAME: Timberlake Aluminum Const.
Address: 25370 NW 8th Pl Newberry FL 32669
BONDING COMPANY: N/A ADDRESS: N/A PHONE NUMBER N/A
CITY: N/A STATE N/A ZIP CODE: N/A
LENDER NAME: None
ADDRESS: n/a PHONE N/A
CITY: N/A STATE N/A Zip: N/A

Prepared by: Peeler Pools, Inc. (Raymond Peeler)
Return to: Peeler Pools, Inc. 9878 S. US Hwy 441 Lake City, FL 32025

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.

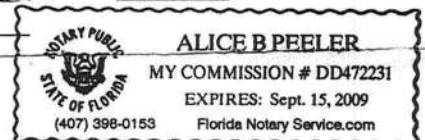
NAME: None ADDRESS: N/A

In addition to himself, Owner designates: Raymond Peeler of Peeler Pools, Inc.
9878 S US Hwy 441 Lake City, FL 32025

to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

Expiration date is 1 year from date of recording unless a different date is specified.

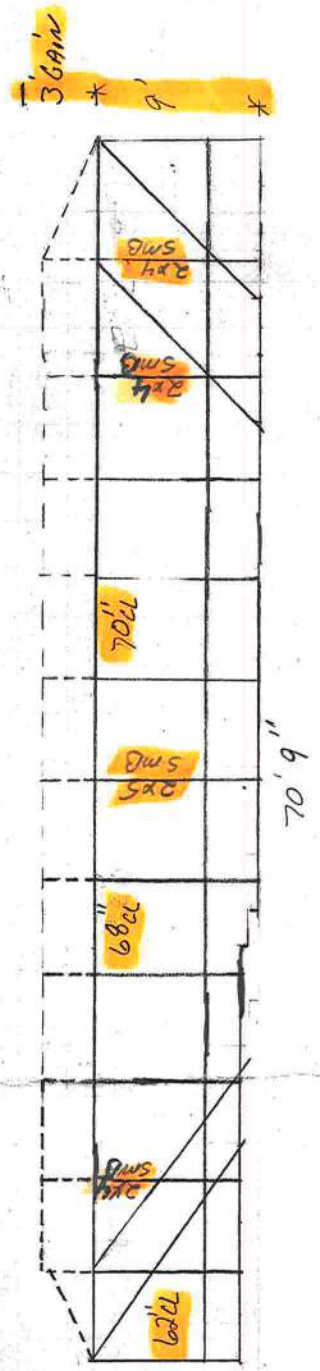
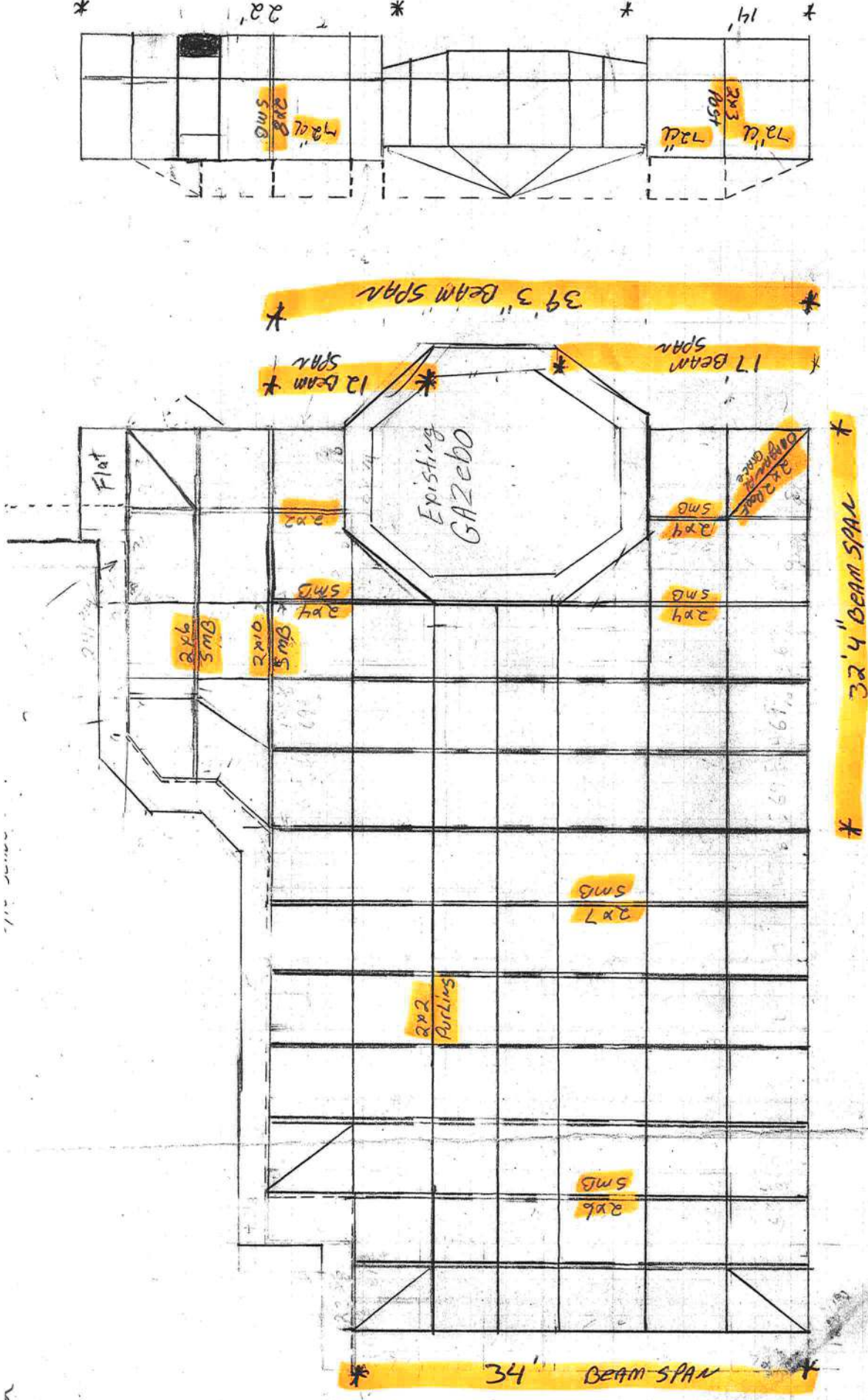
SIGNATURE OF OWNER William & Dorcas Simmons
SWORN to and subscribed before me this 9th day of June year of 2008
Notary Public My commission expires
Signature: Alice B Peeler



***WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

517 NW Horizon St
 Lake City, FL 32055
 Col [Signature]

TIMBERLAKE ALUMINUM
 CONSTRUCTION, INC.
 25370 NW 8th Place
 NEWBERRY, FL 32669



STAFF K# IN BOX - CK# 1744
Columbia County Building Permit Application

For Office Use Only Application # 0811-22 Date Received 11/10 By JW Permit # 27493
Zoning Official BLK Date 11-08 Flood Zone X FEMA Map # N/A Zoning RSF-2
Land Use RES. Low Density Elevation N/A MFE N/A River N/A Plans Examiner (initials) Date 11-18-08
Comments Impact Fee Exempt - Addition to Existing Residence
☒ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☒ Letter of Authorization from Contractor
☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Septic Permit No. K-08-371 Craig Timberlake Fax 352-472-6855

Name Authorized Person Signing Permit LARRY Cole Phone 352-472-6850

Address 25370 NW 8th Newberry Fl 32669

Owners Name William + Dorcas Simmons Phone 386-755-9271

911 Address 517 NW Horizon St Lake City, FL 32025

Contractors Name Ricky R Helms Phone 352-472-6850

Address 25370 NW 8th Newberry Fl 32669

Fee Simple Owner Name & Address William + Dorcas Simmons

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Lawrence E Bennett P.A. 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 28.3516E-02374-011 Estimated Cost of Construction 17,299.00

Subdivision Name Fairfield Hills Lot 11 Block 6th Unit Phase

Driving Directions US 90 W To Brown Rd (R) To Horizon (L) 0.4 mi ON the R.

Number of Existing Dwellings on Property 1

Construction of Shed Enclosure Total Acreage 2.58 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 11'

Actual Distance of Structure from Property Lines - Front 50' Side 50' Side 50' Rear 50'

Number of Stories 1 Heated Floor Area 0 Total Floor Area 3885 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.

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.

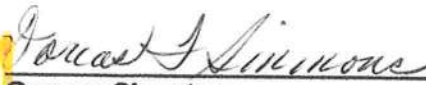

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

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.

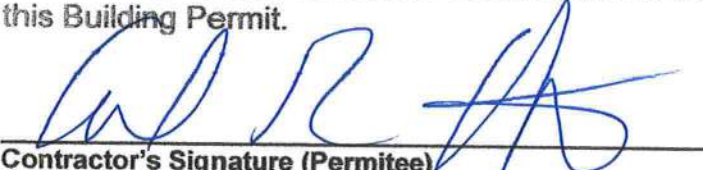
NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

 
Owners Signature

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.

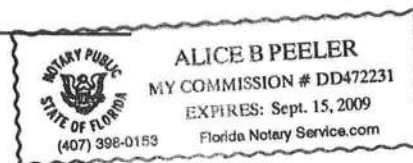

Contractor's Signature (Permitee)

Contractor's License Number SCC056710
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 19th day of June 2008
Personally known 19 or Produced Identification _____


State of Florida Notary Signature (For the Contractor)

SEAL:



THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 05-1041
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Inst:2006000378 Date:01/09/2006 Time:11:08

Doc Stamp-Deed : 2535.40

Property Appraiser's
Identification Number R02374-011

DC, P. DeWitt Cason, Columbia County B:1070 P:1345

WARRANTY DEED

This Warranty Deed, made this 6th day of January, 2006, BETWEEN PAUL H. BARRETT and DONNA L. BARRETT, Husband and Wife whose post office address is 517 NW Horizon Street, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and WILLIAM L. SIMMONS and DORCAS T. SIMMONS, Husband and Wife whose post office address is 517 NW Horizon Street, Lake City, FL 32055, of the County of Columbia, State of Florida, grantee*.

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

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:

Lot 11, FAIRFIELD HILLS, a subdivision according to the plat thereof as recorded in Plat Book 4, Pages 107-107A of the public records of Columbia County, Florida.

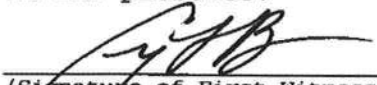
Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

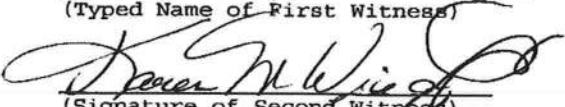
And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

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:



(Signature of First Witness)
Crystal L. Brunner

(Typed Name of First Witness)


(Signature of Second Witness)

Karen M. Wright

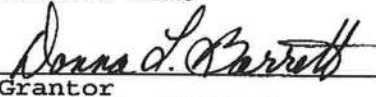
(Typed Name of Second Witness)

 (SEAL)

Grantor

PAUL H. BARRETT

Printed Name

 (SEAL)

Grantor

DONNA L. BARRETT

Printed Name

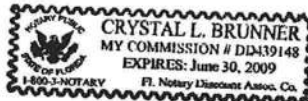
STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 6th day of January, 2006, by PAUL H. BARRETT and DONNA L. BARRETT, Husband and Wife who are personally known to me or who have produced _____ as identification and who did not take an oath.

My Commission Expires:


Notary Public

Printed, typed, or stamped name:



Inst:2006000378 Date:01/09/2006 Time:11:08

Doc Stamp-Deed : 2535.40

DC,P.Dewitt Cason,Columbia County B:1070 P:1346

Columbia County Property Appraiser

DB Last Updated: 10/21/2008

2008 Certified Values

Tax Record

Property Card

Interactive GIS Map

Print

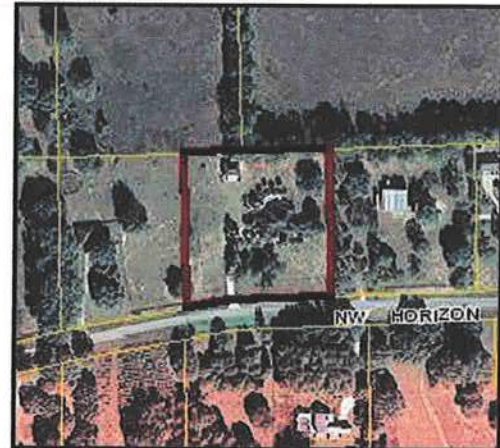
Parcel: 28-3S-16-02374-011 HX

Owner & Property Info

Search Result: 1 of 1

Owner's Name	SIMMONS WILLIAM L & DORCAS T		
Site Address	HORIZON		
Mailing Address	517 NW HORIZON ST LAKE CITY, FL 32055		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	28316.01	Tax District	2
UD Codes	MKTA06	Market Area	06
Total Land Area	2.580 ACRES		
Description	LOT 11 FAIRFIELD HILLS S/D. ORB 580-575, 845-1636, WD 1070-1345.		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	\$50,310.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$254,090.00
XFOB Value	cnt: (6)	\$30,951.00
Total Appraised Value		\$335,351.00

Just Value	\$335,351.00
Class Value	\$0.00
Assessed Value	\$335,351.00
Exempt Value	(code: HX) \$50,000.00
Total Taxable Value	\$285,351.00

Sales History

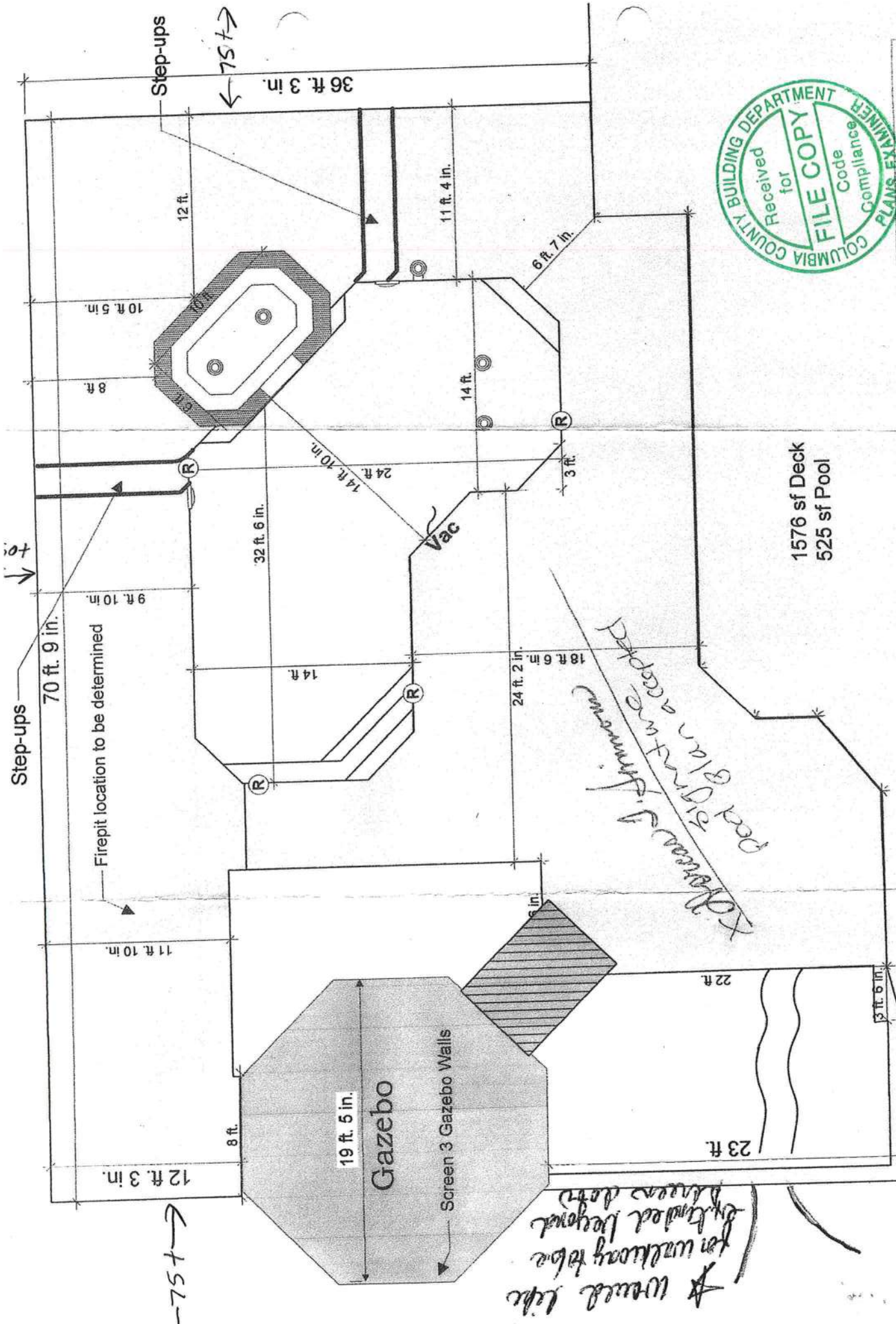
Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
1/6/2006	1070/1345	WD	I	Q		\$362,200.00
9/15/1997	845/1636	WD	I	Q		\$242,000.00
12/1/1985	580/575	WD	V	Q		\$10,500.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1990	Above Avg. (10)	2964	4523	\$254,090.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	1993	\$12,378.00	4951.000	0 x 0 x 0	(.00)
0280	POOL R/CON	1993	\$7,373.00	512.000	32 x 16 x 0	(.00)
0166	CONC,PAVMT	1993	\$4,060.00	1624.000	0 x 0 x 0	(.00)
0262	PRCH,FOP	1993	\$4,500.00	1.000	0 x 0 x 0	(.00)
0294	SHED WOOD/	0	\$1,020.00	136.000	8 x 17 x 0	(.00)



SCALE: 1/8" = 1'
 Peeler Pools
 9878 S U.S.Hwy 441
 Lake City FL 32025
 Phone: 386-755-2848
 Fax: 386-755-5577
 Designed by: Raymond Peeler
 5/13/2008
 for: Lake City FI 32055
 517 NW Horizon St
 Simmons

Design Check List for Pool Enclosures

I. Design Statement (EAGLE ALUMINUM 6061 T-6 FRAME MEMBERS)

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, ASHRAE and The 2005 Aluminum Design Manual Part I-A & I-A-1; Exposure B, "C" or "D"; Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and higher; Negative I.P.C. 0.00; MPH Wind Zone for 3 second gust Basic Wind Pressure (Design Pressures are PSF for roofs & PSF for walls, (see page 1 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. 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.

Contractor Authorized Rep. Name (please print) Chad R. Helms Phone: 352-472-6850
 Date: 11/7/08
 Contractor Authorized Rep. Signature [Signature]

Job Name & Address Simmons 517 New Horizon ST Lake City

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:

- Project name & address on plans
- Site plan or survey with enclosure location
- Contractor's / Designer's name, address, phone number, & signature on plans
- Site exposure form completed
- Enclosure layout drawing @ 1/8" or 1/10" scale with the following:
 - Plan view with host structure, enclosure length, projection from host structure, and all dimensions
 - Front and side elevation views with all dimensions & heights

Note:

All massing wall drawings shall include mansard panel at the top of the wall.
 3. Beam location (show in plan & elevation view) & size.

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:

Span _____ Required Converted Span / Height _____

Wind Zone Multiplier _____ Exposure Multiplier _____

4. Upright location (show in plan & elevation view) & size (Table 1.3 E & 1.8 E)

5. Chair rail & girt size, length, & spacing (Table 1.4 E)

6. Eave rail size, length, spacing and stitching of (Table 1.2 E)

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

Wall 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 _____

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

Span / Height _____ Required Converted Span / Height _____

Wind Zone Multiplier _____ Exposure Multiplier _____

7. Enclosure roof diagonal bracing in plan view

8. Knee braces length, location, & size (Table 1.7 E)

9. Wall cables or K-bracing sizes shown in wall views

10. Beam & purlin tables with size, thickness, spacing, & spans / lengths (Tables 1.0 E & 1.2 E or 1.3 E & 1.9 E)

11. Upright & girt tables with size, thickness, spacing, & spans / lengths (Tables 1.3 E & 1.4 E)

12. Table 1.1 with beam & upright combination

13. Connection details to be used such as:

- Beam to wall
- Beam to beam
- Chair rail, purlins, & knee braces
- Extended gutter connections
- Angle to deck and / or sole plate

- Anchors go through pavers into concrete
- Minimum footing and / or knee wall details
- Cable or K-brace details Section 1

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: _____ ft. x _____ ft. = _____ ft.² @ 100% = _____ ft.²

Largest side wall: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____ cable pairs

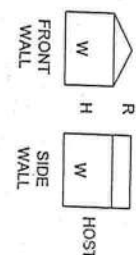
or Total area / (445 ft.² / cable for 1/8") = _____ cable pairs

Side wall cable calculation: _____ ft.² @ 100% = _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____ cable(s)

or Side wall area / (445 ft.² / cable for 1/8") = _____ cable(s)

Example 2: Gable Roof



Front wall @ eave: _____ ft. x _____ ft. = _____ ft.² @ 100% = _____ ft.²

Front gable rise: _____ ft. x 1/2 (_____ ft.) = _____ ft.² @ 100% = _____ ft.²

Largest side wall: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Largest side gable rise: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____ cable pairs

or Total area / (445 ft.² / cable for 1/8") = _____ cable pairs

Side wall cable calculation: _____ ft.² + _____ ft.² = _____ ft.² @ 100% = _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____ cable(s)

or Side wall area / (445 ft.² / cable for 1/8") = _____ cable(s)



Example 3: Transverse Gable Roof

Front wall @ eave: _____ ft. x _____ ft. = _____ ft.² @ 100% = _____ ft.²

Front gable rise: _____ ft. x _____ ft. = _____ ft.² @ 100% = _____ ft.²

Largest side wall: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Largest side gable rise: _____ ft. x 1/2 (_____ ft.) = _____ ft.² @ 50% = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____ cable pairs

or Total area / (445 ft.² / cable for 1/8") = _____ cable pairs

Side wall cable calculation: _____ ft.² + _____ ft.² = _____ ft.² @ 100% = _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____ cable(s)

or Side wall area / (445 ft.² / cable for 1/8") = _____ cable(s)

Example 4: Mansard Roof

Front wall @ eave: _____ ft. x _____ ft. = _____ ft.² @ 100% = _____ ft.²

Front mansard rise: _____ ft. x 1/2 (_____ ft.) + _____ ft. = _____ ft.² @ 100% = _____ ft.²

Largest side wall: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Largest side mansard rise: _____ ft. x 1/2 (_____ ft.) + _____ ft. = _____ ft.² @ 50% = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____ cable pairs

or Total area / (445 ft.² / cable for 1/8") = _____ cable pairs

Side wall cable calculation: _____ ft.² + _____ ft.² = _____ ft.² @ 100% = _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____ cable(s)

or Side wall area / (445 ft.² / cable for 1/8") = _____ cable(s)

Example 5: Dome Roof

Front dome wall @ eave: _____ ft. x _____ ft. = _____ ft.² @ 100% = _____ ft.²

Front dome rise: _____ ft. x 1/2 (_____ ft.) = _____ ft.² @ 100% = _____ ft.²

Largest side wall: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Largest side dome rise: _____ ft. x _____ ft. = _____ ft.² @ 50% = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____ cable pairs

or Total area / (445 ft.² / cable for 1/8") = _____ cable pairs

Side wall cable calculation: _____ ft.² + _____ ft.² = _____ ft.² @ 100% = _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____ cable(s)

or Side wall area / (445 ft.² / cable for 1/8") = _____ cable(s)

EAGLE 6061 ALLOY IDENTIFIER™ INSTRUCTIONS FOR PERMIT PURPOSES

To: Plans Examiners and Inspectors,

These identification instructions are provided to contractors for permit purposes. The pictures below illustrate our unique "raised" external identification mark (Eagle 6061™) and its location next to the spine groove, to signify our 6061 alloy extrusions. It is ultimately the purchaser's / contractor's responsibility to ensure that the proper alloy is used in conjunction with the engineering selected for construction. We are providing this identification mark to simplify identification when using our 6061 Alloy products.

A separate signed and sealed certification letter from Eagle Metals will be provided once the metal is purchased. This should be displayed on site for review at final inspection.
 The Inspector should look for the identification mark as specified below to verify the metal is engineering.



EAGLE 6061 I.D. DIE MARK

ALUMINUM STRUCTURES DESIGN MANUAL
 SCREEN ENCLOSURES
 INSPECTION GUIDE / DESIGN CHECK LIST
 2004 FBC W/ 2006 SUPPLEMENTS
 2006 EDITION

EAGLE METAL DISTRIBUTORS, INC.
 ♦ THE FREEDOM OF CHOICE ♦
 603-B W. LANDSHIRE ROAD, ORLANDO, FL 32824
 ♦ TEL: 407-367-0688 ♦ FAX: 407-367-0684

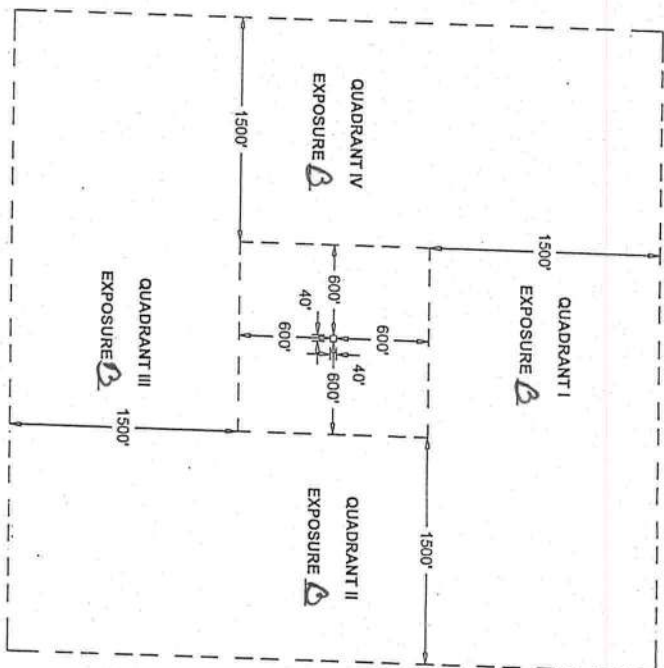
Lawrence E. Bennett, P.E. FL # 16644
 CIVIL & STRUCTURAL ENGINEERING
 P.O. Box 214368, South Daytona, FL 32121
 Telephone: (386) 767-4774 Fax #: (386) 767-6556
 Email: lebpe@bellsouth.net

AUTHORIZED MASTER FILE COPIES DO NOT REQUIRE RAISED SEAL COPIES - ALL OTHER USERS REQUIRE RAISED SEAL COPIES
 IF USING THESE EAGLE 6061 TABLES, PLEASE REFER TO INSTRUCTIONS ON IDENTIFICATION AND CERTIFICATION OF EAGLE METALS 6061 ALLOY.

Inspection Guide For Pool Enclosures

- | | | | |
|--|--|-----|----|
| 1. Check the following permit for the following: | | Yes | No |
| a. Permit card & address | | | |
| b. Approved drawings and addendums as required | | | |
| c. Plot plan or survey | | | |
| d. Notice of commencement | | | |
| 2. Check the approved site specific drawings or shop drawings against the "AS BUILT" structure for: | | Yes | No |
| a. Structures length, projection, plan & height as shown on the plans | | | |
| b. Beam size, span, spacing & stitching screws | | | |
| c. Purlin size, span & spacing | | | |
| d. Upright size, height, spacing & stitching screws | | | |
| e. Chair rail size, length & spacing | | | |
| f. Eave rail size, length, spacing & stitching of 1" x 2" to 2" x 2" | | | |
| g. Enclosure roof diagonal bracing is installed snug | | | |
| h. Wall cables or "K" bracing are installed snug | | | |
| i. Knee braces are properly installed | | | |
| 3. Check load bearing uprights for the following: | | Yes | No |
| a. Angle bracket size & thickness | | | |
| b. Correct number, size & spacing of fasteners to upright | | | |
| c. Correct number, size & spacing of fasteners of angle to deck and sole plate | | | |
| d. Upright is anchored to deck through brick pavers then anchors shall go through pavers into concrete | | | |
| 4. Check the load bearing beam to upright for: | | Yes | No |
| a. Upright to beam connection and / or splices have correct number & spacing of screws | | | |
| b. Overlap beam to upright or gusset plate | | | |
| c. If angle brackets are used in framing check for correct thickness and size & number of fasteners | | | |
| 5. Check load bearing beam to host structure and / or gutter for: | | Yes | No |
| a. Receiver bracket, angle or receiving channel size & thickness | | | |
| b. Size, number & spacing of anchors of beams to receiver | | | |
| c. Size, number & spacing of anchors of receiver to host structure of gutter | | | |
| d. Correct anchoring of gutters to host structure | | Yes | No |
| e. Check the wall cables: | | | |
| a. Location & number | | | |
| b. Top bracket size and fasteners | | | |
| c. Eye bolts are welded | | | |
| d. Bottom strap to concrete connection | | | |
| 7. Check wall "K" bracing (if required): | | Yes | No |
| a. Location & size | | | |
| b. Angle, gusset or clip size & number | | | |
| c. Number & size of fasteners | | | |
| 8. Check electrical ground: | | Yes | No |
| a. Properly completed | | | |
| b. Angle, gusset or clip size & number | | | |
| c. Number & size of fasteners | | | |
| 9. Check the doors on pool enclosures: | | Yes | No |
| a. Door handle @ 54" from the deck | | | |

SITE EXPOSURE EVALUATION FORM



NOTE: ZONES ARE MEASURED FROM STRUCTURE OUTWARD

SCALE: 1" = 1200'

SCALE: 1" = 1200'

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

EXPLORE 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

OUT WITHIN 3 YEARS, SITE WILL BE 'B'.

ANY QUADRANT FOR GREATER THAN 1,500 FEET.

EXPOSURE D: FLAT, UNOBSERVED 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: 2
EVALUATED BY: CHICK HALLMS
DATE: 11/7/08

SIGNATURE: [Signature] LICENSE #: SC056710

LICENSE #: *SCC056710*

DATE: 11/2/88

1

**EAGLE 6061 ALLOY IDENTIFIER™ INSTRUCTIONS
FOR PERMIT PURPOSES**

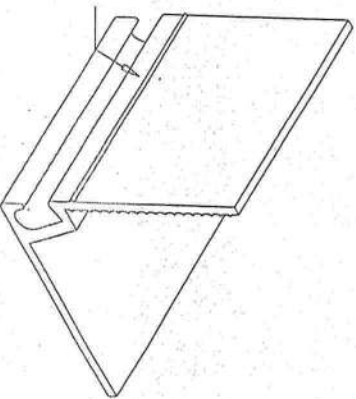
To: Plans Examiners and Inspectors,

These identified instructions are provided to contractors for permit purposes. The pictures below illustrate our unique "raised" external identification mark (Eagle 6061™) and its location next to the spine groove, to signify our 6061 alloy extrusions. It is ultimately the purchaser's / contractor's responsibility to ensure that the proper alloy is used in conjunction with the engineering selected for construction. We are providing this identification mark to simplify identification when using our 6061 Alloy products.


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EAGLE 6061 I.D.
DIE MARK



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SHED 1-2003

2

10-31-2007

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General Notes and Specifications:

- The following structures are designed to be married to site built block or wood frame DCA approved modular structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If the owner or contractor has a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
- 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.
- Spans are for enclosures with mean roof heights less than 30'. For greater heights, consult engineer.
- Connections to fascia shall be limited to overhangs shown in table 1.11 or less unless site specific engineering is provided.
- The proper structural name for a chair rail or top rail of an enclosure is a girt. Thus the terminology shall be interchangeable.
- Screws that penetrate the water channel of the super gutter shall have ends clipped off for safety of cleaning gutter and the heads of screws through the gutter into the fascia shall be caulked.
- Section 7 contains span tables and attachment details for pans and composite panels.
- When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
- An additional super gutter strap or ferrule is required to be located near the midpoint of the beam spacing. Straps shall be attached to each truss / rafter tail when a 2" sub-fascia does not exist. Straps at the beam are not required when straps are placed @ each truss / rafter tail and spacing of straps does not exceed 2'-0".
- Super or extruded gutter details are applicable to all widths of super or extruded gutters, and gutters may be substituted. Gutter straps and/or ferrules shall be the width of the inside and outside of the super or extruded gutter respectively. The center of the knee braces shall not be more than 6" above the top of the super or extruded gutter.
- If the sub-fascia is 3/4", and the sub-fascia is in good repair, a 3/4" P.T.P. strip the width of the fascia may be added to the existing sub-fascia by attaching the plywood with (2) 16d x 3" common nails or (2) #9 x 3" screws. This gives the equivalent of a 2" fascia.
- Spans may be interpolated between values but not extrapolated outside values.
- All 2" x 4" and larger purlins shall have an internal or external angle clip or screw boss to fasten the bottom of the purlin to the beam.
- Load width and / or panel spacing used in determining spans / heights is measured from center to center of the members.

EXAMPLE:

Screen panel A is 6' center to center. Screen panel B is 7' center to center. The load width of the frame member between panel A and B is (6'2" + 7'2") = 6.5' or 6'-6".

Section 1 Design Statement (for Structures Constructed using Eagle 6061 T6 Alloy Extruded Members):

The structures designed for Section 1 are framing systems with screen roofs & walls and loads have been determined by wind tunnel test that include any negative internal pressure coefficient. Since these structures are open, the negative internal pressure coefficient is considered to be 0.00. The design loads used are from Chapter 20 of the 2004 Florida Building Code w/ 2006 Supplements. The loads assume a mean roof height of less than 30'; roof slope of 0° to 20°; 1 = 0.87 for 100 MPH and 0.77 for 110 or higher. All loads are based on 20 / 20 screen or larger. Multiply wall heights by 1.10 for members controlled by bending(b) and 1.07 for members controlled by deflection(d) when using 18 / 14 screen. All pressures shown in the below table are in PSF (#/SF). All framing components are considered to be 6061-T6 alloy (see Alloy Identifier Instructions, this page).

SECTION 1 Uniform Loads for Structures with Screen Roof & Walls

Wind Velocity MPH	Basic Wind Pressure	Exposure 'B'		Exposure 'C'	
		Roofs Pressure	Walls Leeward	Roofs Pressure	Walls Leeward
100	13	3	12	10	5
110	14	4	13	9	6
120	17	4	15	13	8
130	18	4.3	15.9	13.3	8.3
140	20	5	18	14	7
150	23	6	21	15	8
160	26	7	24	18	9

Loads per table 2002.4
Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.
Conversion Table 1A
Wind Zone Conversion Factors for Screen Roof or Wall Frame Members
From 120 MPH Wind Zone to Others, Exposure 'B'

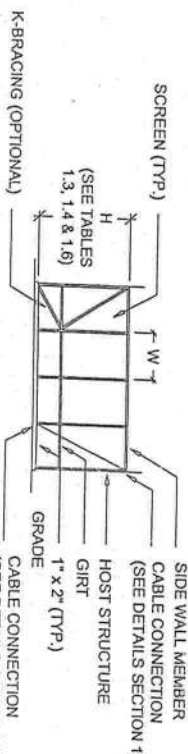
Wind Zone	Applied Load #/SF	Conversion Factor	Applied Load #/SF	Conversion Factor
100	3	1.15	12	1.12
110	4	1.00	13	1.07
120	4	1.00	15	1.00
130	4.3	0.98	15.9	0.97
140	5	0.93	18	0.91
150	6	0.82	21	0.85
160	7	0.75	24	0.79

Note:
Multipliers are for wall loads only.
Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

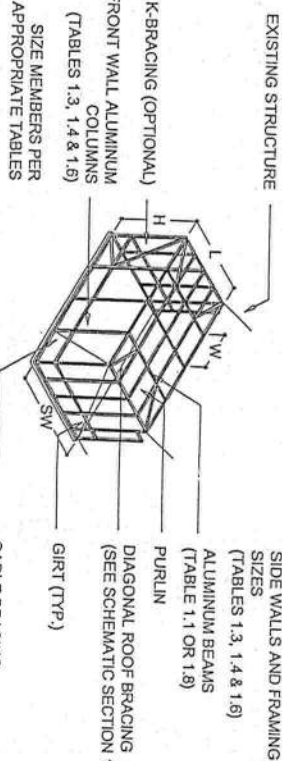
Conversion Table 1B
Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

Mean Roof Height*	Exposure "B" to "C"		Exposure "B" to "D"	
	Load Conversion Factor	Span Multiplier	Load Conversion Factor	Span Multiplier
0 - 15'	1.21	0.91	1.47	0.83
15' - 20'	1.23	0.88	1.54	0.87
20' - 25'	1.34	0.85	1.60	0.79
25' - 30'	1.40	0.85	1.65	0.85
30' - 40'	1.37	0.85	1.61	0.79

* Use larger mean roof height of host structure or enclosure
Values are from ASCE 7-02
Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.
Conversion Example (Convert span for Exposure "B" to "C"):
If max span found from span tables for Exposure "B" = 31'-1" = 31.92'
and the mean roof height of the structure is 0-15' then multiply span by 0.91
the span for Exposure "C" is 31.92' x 0.91 = 29.05' = 29'-1"



TYPICAL FLAT ROOF - FRONT WALL ELEVATION
SCALE: N.T.S.

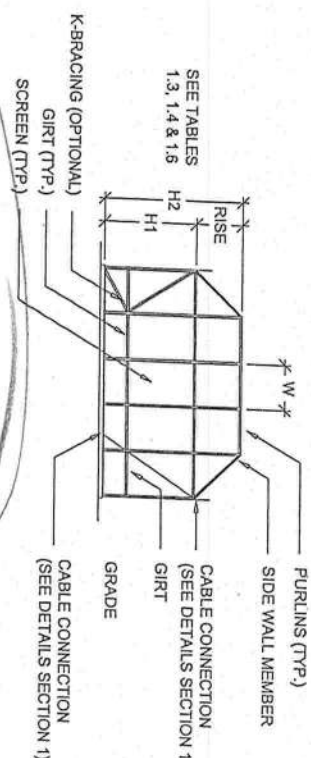


TYPICAL FLAT ROOF - ISOMETRIC
SCALE: N.T.S.

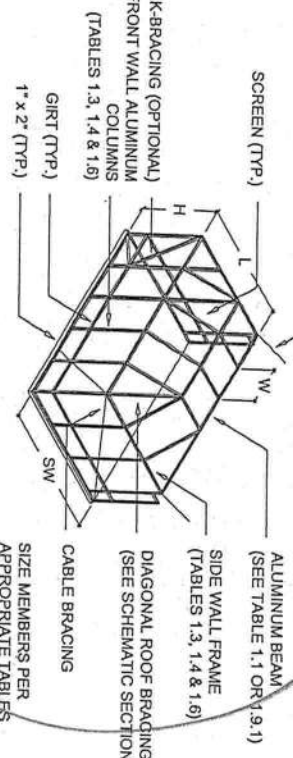
TYPICAL NOMENCLATURE FOR SCREENED ENCLOSURES:

- H - MAXIMUM UPRIGHT HEIGHTS
- L - MAXIMUM BEAM SPAN WITHOUT KNEE BRACE
- ADD HORIZONTAL LENGTH OF KNEE BRACE TO SPAN FROM TABLES
- SW - SIDE WALLS CAN BE FRAMED WITHOUT TOP BEAM AND CAN BE SMALLEST
- EXTRUSIONS ALLOWED BY SPAN TABLES
- SCREEN PANEL SPACING

CONNECTION DETAILS AND NOTES ARE FOUND IN SUBSEQUENT PAGES.



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.

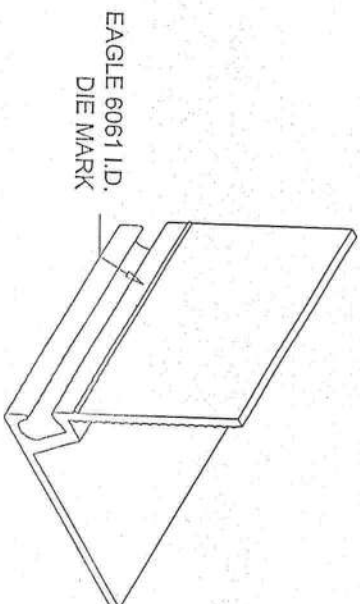
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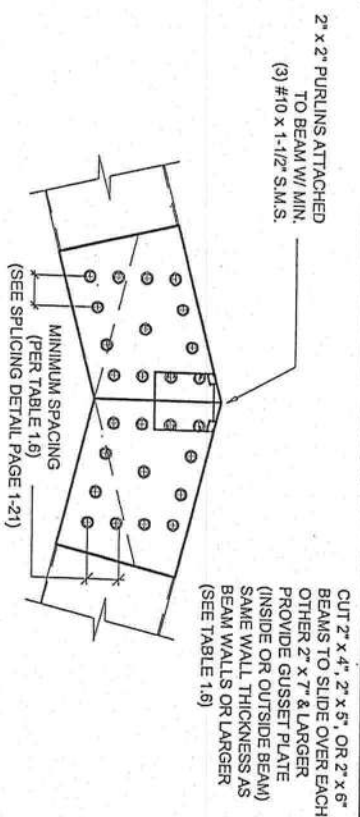
The inspector should look for the identification mark as specified below to validate the use of 6061 engineering.



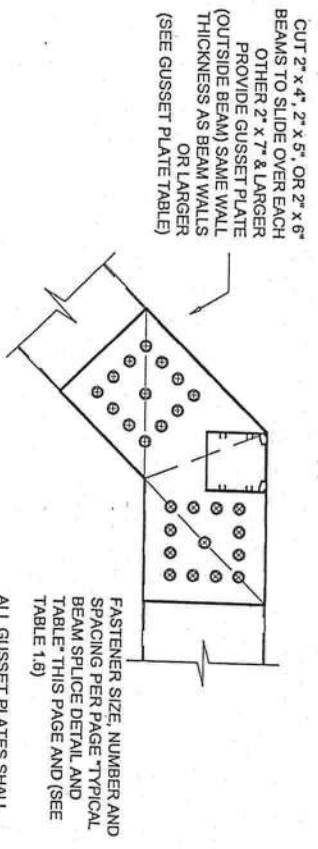
ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN ENCLOSURES
SECTION 1 DETAILS
2004 FBC W/ 2006 SUPPLEMENTS
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603-B W. LANDSTREET RD., OLANO, FL 32824
• TEL: 407-367-0688 • FAX: 407-367-0684

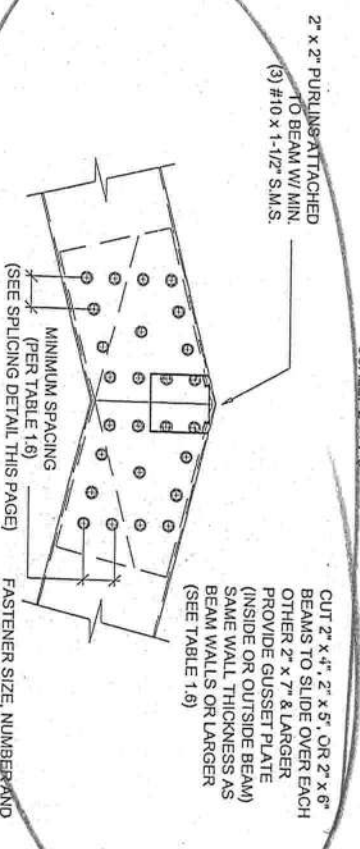
Lawrence E. Bennett, P.E. FL # 16644
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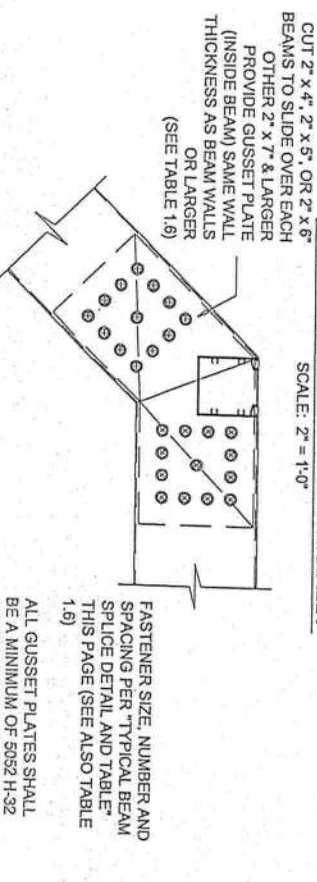
TYPICAL SIDE PLATE CONNECTION DETAIL
SCALE: 2\"/>



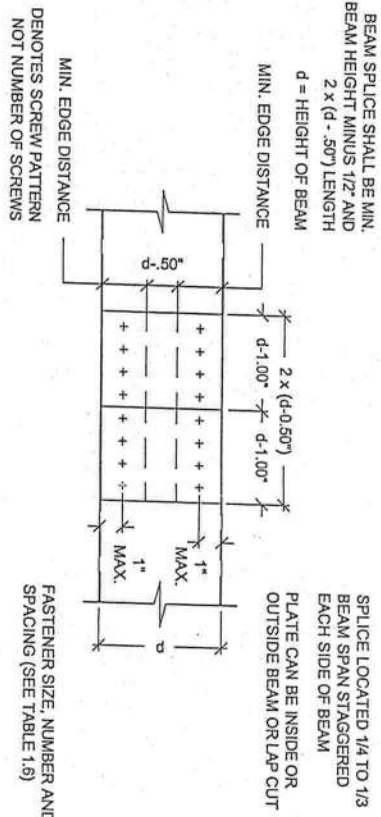
TYPICAL SIDE PLATE CONNECTION DETAIL - MANSARD ROOF
SCALE: 2\"/>



ALTERNATE SIDE PLATE CONNECTION DETAIL
GUSSET PLATE MOUNTED INTERNALLY
SCALE: 2\"/>



ALTERNATE SIDE PLATE CONNECTION DETAIL - MANSARD ROOF
GUSSET PLATE MOUNTED INTERNALLY
SCALE: 2\"/>



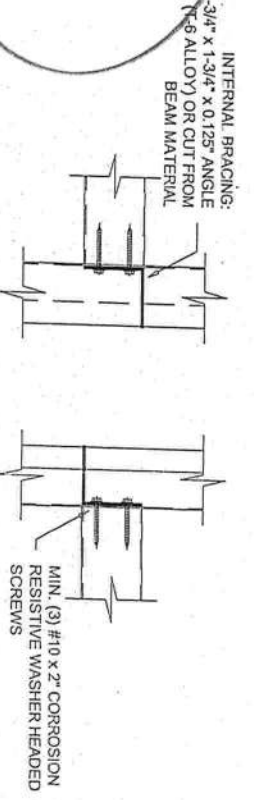
		Minimum Distance and Spacing of Screws*		Gusset Plate	
Screw Size	d _s (in.)	Edge to Center	Center to Center	Beam Size	Thickness
#3	0.16	3/9	7/16	2" x 7" x 0.055" x 0.120"	1/16 = 0.063
#10	0.19	3/8	9/16	2" x 8" x 0.072" x 0.124"	1/8 = 0.125
#12	0.22	7/16	5/8	2" x 9" x 0.107" x 0.124"	1/8 = 0.125
#16	0.26	1/2	5/8	2" x 9" x 0.082" x 0.136"	1/8 = 0.125
5/16	0.31	5/8	3/4	2" x 10" x 0.092" x 0.169"	1/4 = 0.25

* refers to each side of splice

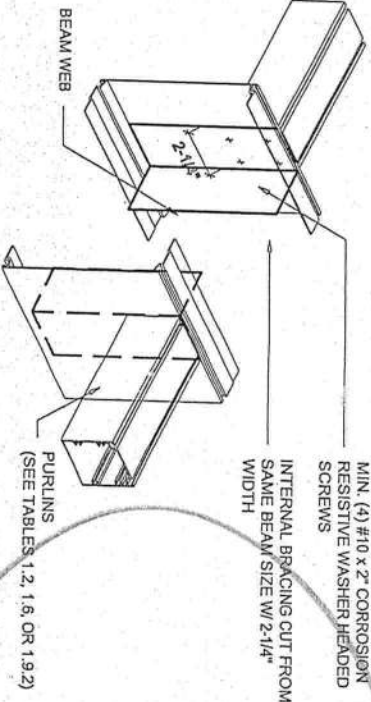
* use for 2" x 4" and 2" x 6" also

All gusset plates shall be minimum 5055 H-32 Alloy or have a minimum yield of 30 ksi.

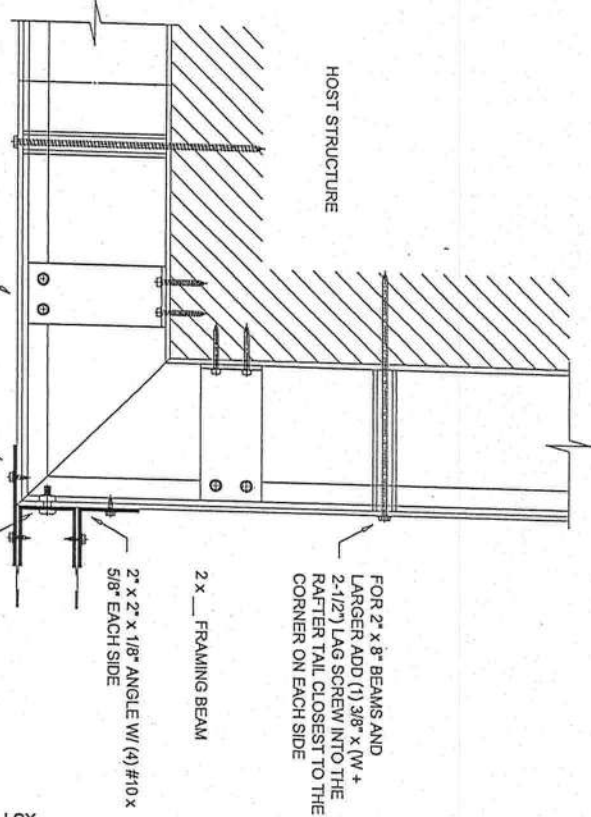
TYPICAL BEAM SPLICE DETAIL
SCALE: 2\"/>



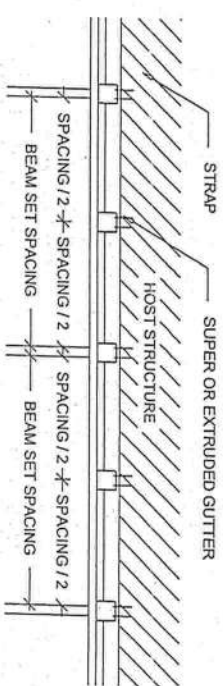
PLAN VIEW
SCALE: 2\"/>



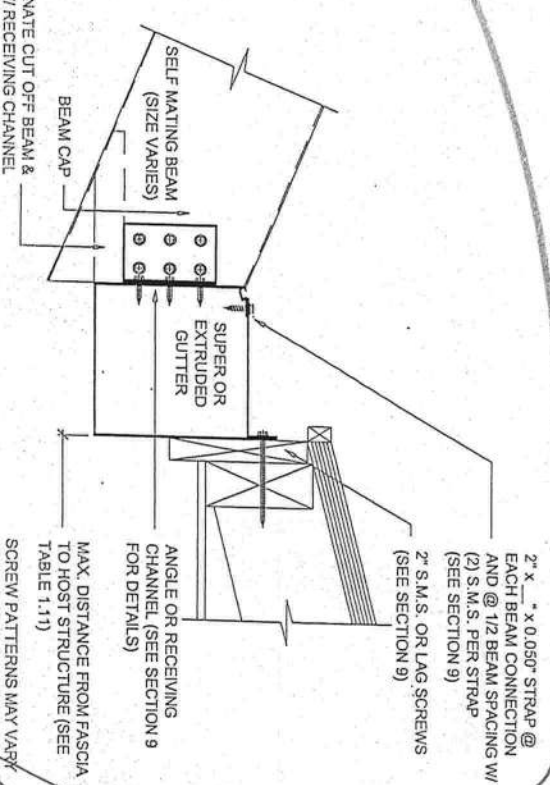
ISOMETRIC VIEW
SCALE: N.T.S.



OUTER MITER DETAIL FOR SUPER OR EXTRUDED GUTTER TO CARRIER BEAM
SCALE: 2\"/>



STRAP LOCATION FOR SUPER OR EXTRUDED GUTTER REINFORCEMENT
SCALE: 1/4\"/>



SELF-MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER
SCALE: 2\"/>

LATERAL BEAM BRACING DETAILS (FOR SPANS GREATER THAN 40'-0")
NOTES:
1. REQUIRED FOR SPANS GREATER THAN 40' AND ALL DOME OR TRANSVERSE GABLE ENCLOSURES.
2. ALL 2x4 AND LARGER PURLINS SHALL HAVE AN INTERNAL OR EXTERNAL ANGLE CLIP OR SCREW BOSS TO FASTEN THE BOTTOM OF THE PURLIN TO THE BEAM OR SCREW BOSS.

AUTHORIZED MASTER FILE CONTRACTORS DO NOT REQUIRE RAISED SEAL COPIES - ALL OTHER USERS REQUIRE RAISED SEAL COPIES
F USING THESE EAGLE 6061 TABLES, PLEASE REFER TO PAGE 4 FOR INSTRUCTIONS ON IDENTIFICATION AND CERTIFICATION OF EAGLE METALS 6061 ALLOY.

CABLE BRACING

General Notes and Specifications:

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

a) FRONT WALL CABLES - 7 x 19 STAINLESS STEEL

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

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

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

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

b) SIDE WALL CABLES - 7 x 19 STAINLESS STEEL

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

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

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

NOTES:

- Where wall height is such that a girl is required between the top or eave rail and the chair rail, (i.e. a mid-rise girl), then the front wall shall have two cable pairs and they shall be attached to the top rail and the mid-rise rail. If more than one additional girl is required between the top or eave rail and the chair rail, then there shall be an additional front wall cable pair at that girl also.
- Side walls do not require cables until the side wall area is greater than 233 Sq. Ft. The side wall cable may be attached at the mid-rise girl or the top rail.
- Standard rounding off rules apply, i.e. if the number of cables calculated is less than 2.5 pairs use two cables; if the number of cables calculated is 2.5 pairs or greater use 3 pairs of cables.
- Additional roof bracing is required for all side walls larger than 4 panels. Number of panels shall be even and position shall be alternating.

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

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

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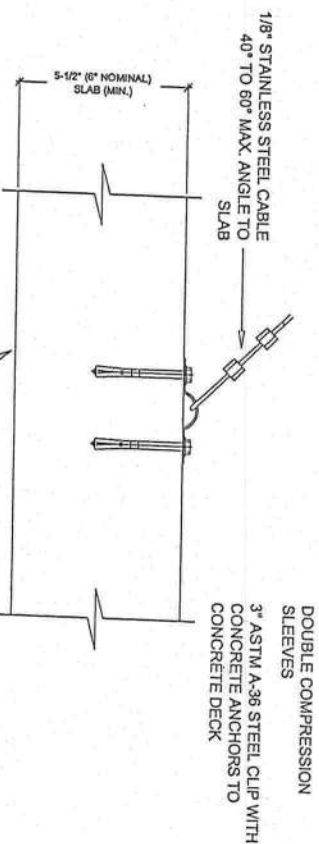
POOL ENCLOSURE SCREEN ROOF MAY BE FLAT, GABLE, MANSARD, DOME, OR HIP

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

K-BRACING

General Notes and Specifications:

- 1) The following shall apply to the installation of K-BRACING as additional bracing to diagonal wind bracing for pool enclosures:
- a) FRONT WALL K-BRACING - ONE SET FOR EACH 800 SF OF TOTAL WALL AREA
TOTAL WALL AREA = 100% OF FRONT WALL + 50% OF ONE SIDE WALL
EXAMPLE: FRONT WALL AREA @ 100% (8' x 32') = 256 Sq. Ft.
SIDE WALL AREA @ 50% (8' x 20') = 80 Sq. Ft.
TOTAL WALL AREA = 336 Sq. Ft.
800 SF > 336 SF THUS ONE SET OF FRONT WALL K-BRACING IS REQUIRED.
- b) SIDE WALL K-BRACING - ONE SET FOR 233 SF TO 800 SF OF WALL.
- c) To calculate the required pair of K-bracing for free standing pool enclosures use 100% of each wall area & 50% of the area of one adjacent wall.



NOTE:
CLIP MAY ALSO BE MOUNTED TO SIDE OF SLAB. MAINTAIN 2\"/>

ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2D

SCALE: 2\"/>

NOTES:

1. K-bracing shall be used for all wind zones of 130 MPH and higher.
2. Side walls do not require K-bracing until the side wall area is greater than 233 SF.
3. Standard rounding off rules apply, i.e. if the number of K-bracing sets calculated is less than 1.5 sets use one set of K-braces; if the number of K-braces calculated is 1.5 sets or greater use 2 sets of K-bracing.

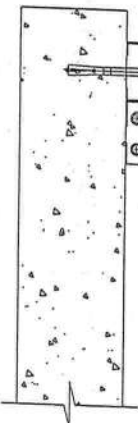
PURLINS ANCHORED W/
CLIPS OR #10 SCREWS
THROUGH PURLINS INTO
SCREW BOSSES

EAVE RAILS SHALL BE
STITCHED W/ #10 x 1-1/2\"/>

FRONT AND SIDE BOTTOM
RAILS ATTACHED TO
CONCRETE W/ 1/4\"/>

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

1\"/>



PURLIN & CHAIR RAIL DETAIL

SCALE: 2\"/>

PURLIN OR CHAIR RAIL
ATTACHED TO BEAM OR POST
W/ INTERNAL OR EXTERNAL U\"/>

(4) #10 S.M.S.

PURLIN, GIRT, OR CHAIR RAIL

SNAP OR SELF MATING BEAM
ONLY

PURLIN TO BEAM OR GIRT TO POST DETAIL

SCALE: 2\"/>

1) FOR WALLS LESS THAN 6'-6\"/>

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\"/>

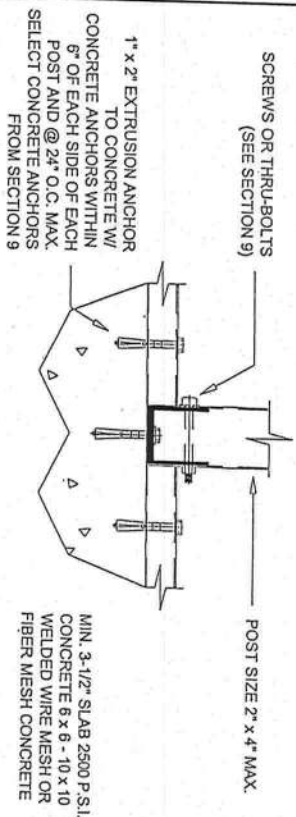
SHEET

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

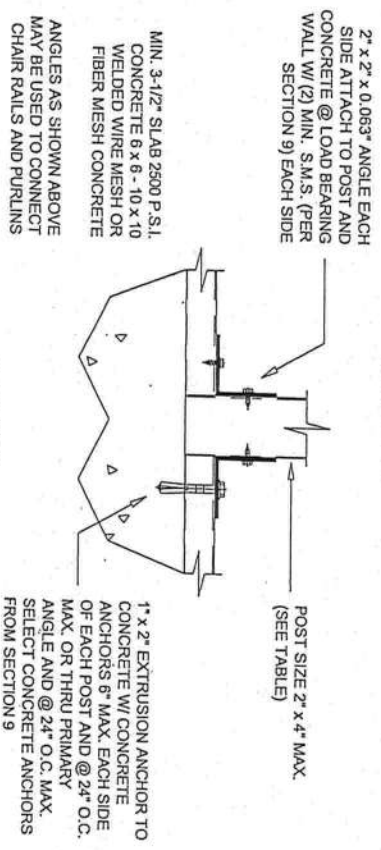
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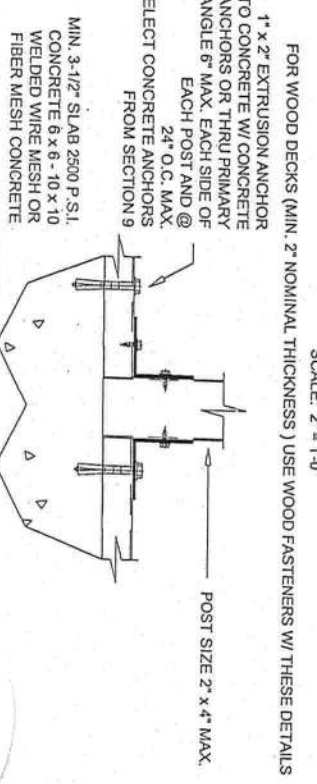
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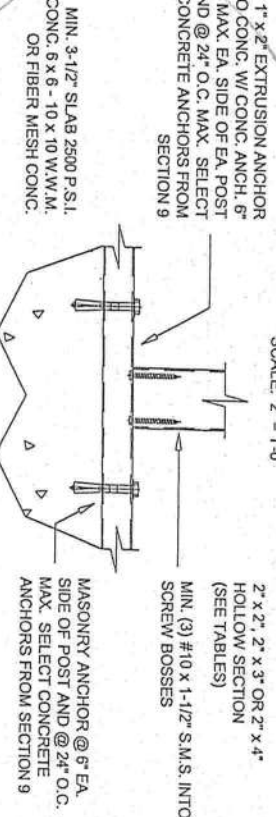
POST TO PLATE TO CONCRETE DETAIL
SCALE: 2" = 1'-0"



SIDE WALL
SCALE: 2" = 1'-0"



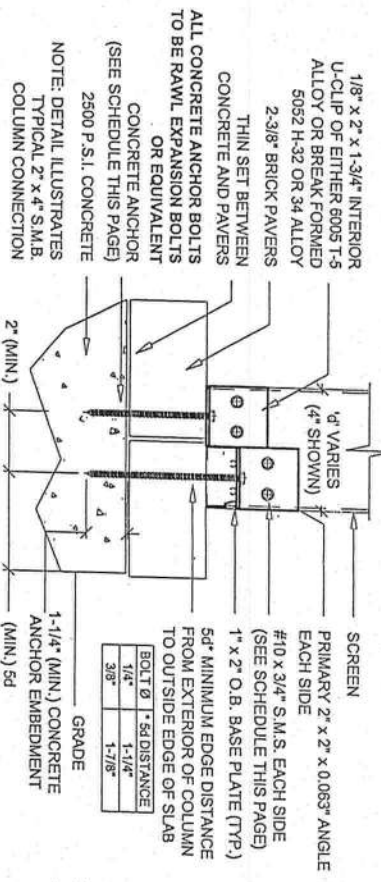
SIDE WALL POST TO PLATE TO CONCRETE DETAIL
SCALE: 2" = 1'-0"



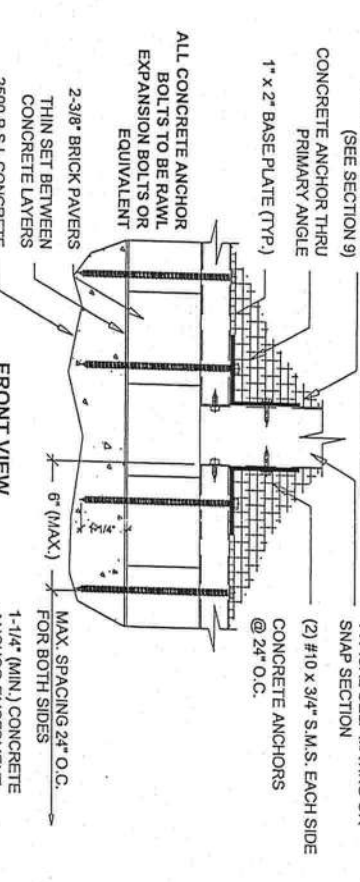
SIDE WALL HOLLOW POST TO BASE DETAIL
SCALE: 2" = 1'-0"

POOL ENCLOSURE UPRIGHT TO DECK ANCHOR REQUIREMENTS

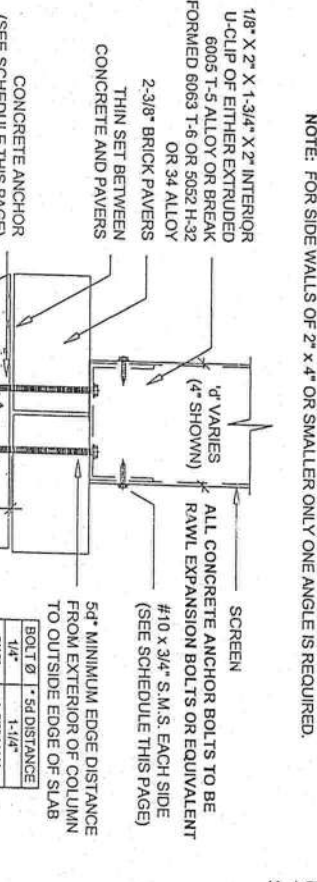
General Notes and Specifications:
1. The uplift load on a pool enclosure upright is calculated as 1/2 the beam span x the beam spacing x the screen load of 7# / Sq. Ft.
EXAMPLE:
FOR A 2" x 6" BEAM WITH A SPAN OF 29' AND A BEAM & UPRIGHT SPACING OF 7' USE: 1/2 x 17'-11" x 7' x 10# / Sq. Ft. = 627.2# UPLIFT
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.
4. For attachment to wood deck (min. 2" nominal thickness) use wood anchors with details shown above (min. 1-3/8" embedment).



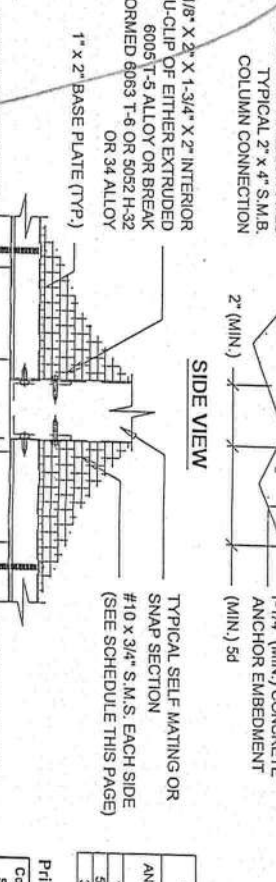
SIDE VIEW
SCALE: 2" = 1'-0"



FRONT VIEW
SCALE: 2" = 1'-0"



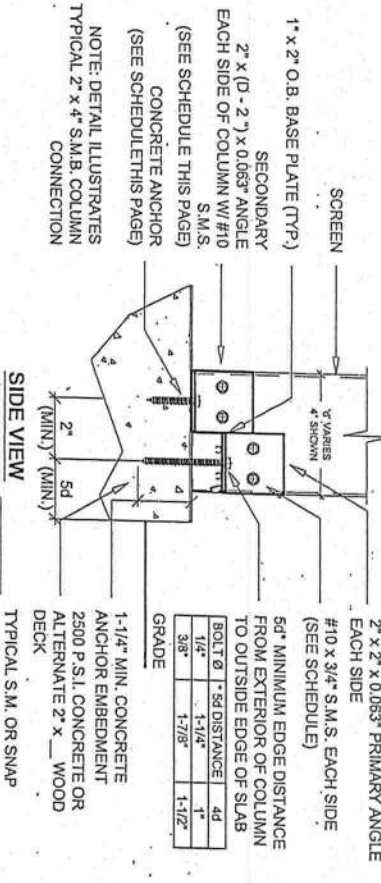
SIDE VIEW
SCALE: 2" = 1'-0"



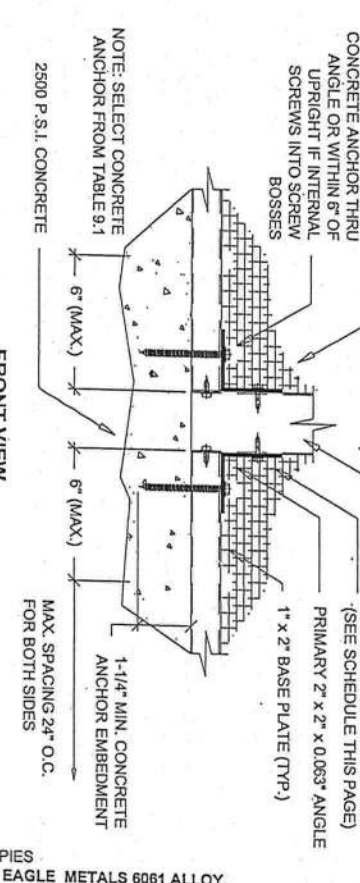
FRONT VIEW
SCALE: 2" = 1'-0"

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

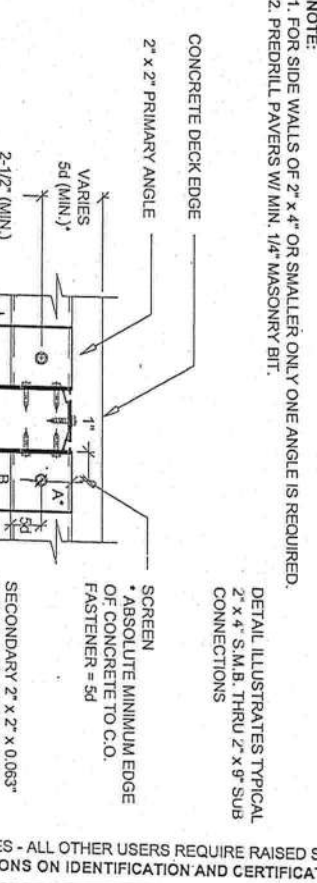
NOTE:
1. FOR SIDE WALLS OF 2" x 4" OR SMALLER ONLY ONE ANGLE IS REQUIRED.
2. PREDRILL PAVERS W/ MIN. 1/4" MASONRY BIT.



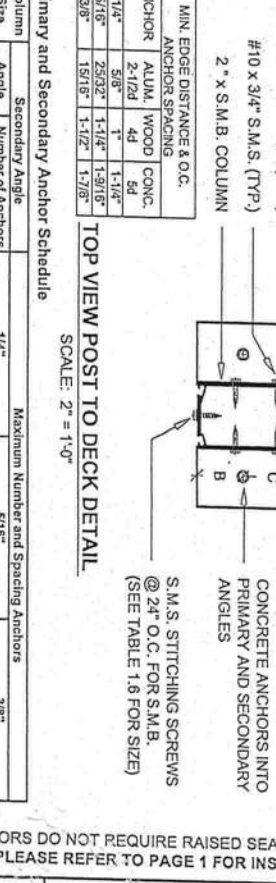
SIDE VIEW
SCALE: 2" = 1'-0"



FRONT VIEW
SCALE: 2" = 1'-0"



SIDE VIEW
SCALE: 2" = 1'-0"



FRONT VIEW
SCALE: 2" = 1'-0"

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

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2. PREDRILL PAVERS W/ MIN. 1/4" MASONRY BIT.

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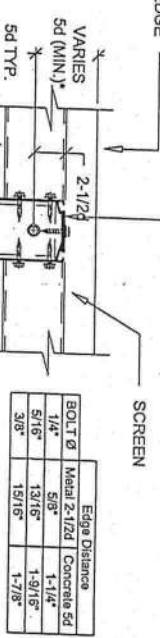
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1/8" x 2" x 1-3/4" x 2" INTERIOR U-CLIP OF EITHER EXTRUDED 6005 T-5 ALLOY OR BREAK FORMED 6063 T-6 RO 5052 H-32 OR 34 ALLOY

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



1" x 2" O.B. BASE PLATE (TYP.)

2" x S.M.B. COLUMN

WALL SCREWS #10 x 3/4" S.M.S. (TYP.) (SEE SCHEDULE PREVIOUS PAGE)

S.M.S. STITCHING SCREWS @ 24" O.C. FOR S.M.B. (SEE TABLE 1.6 FOR SIZE)

TOP VIEW POST THRU PAVER DETAIL

SCALE: 2" = 1'-0"

EXAMPLE OF NUMBER OF SCREWS REQUIRED:

ANCHOR LOAD = BEAM / UPRIGHT SPACING x BEAM SPAN / 2 x 10 PSF = P

1. CONCRETE ANCHORS: ANCHORS ARE IN TENSILE OR TENSION LOAD P / ALLOWABLE LOAD FROM TABLE 9.1 = TOTAL NUMBER OF ANCHORS

2. UPRIGHT WALL ANCHORS: ANCHORS ARE IN SHEAR & THROUGH BOLTS ARE IN DOUBLE SHEAR P / ALLOWABLE LOAD FROM TABLE 9.4 = TOTAL NUMBER OF ANCHORS

* SEE PAGE 111 FOR ROOF WIND LOAD

COMPOSITE PANELS SHALL BE THRU SCREWED THRU THE END CAP AND INTO THE GUTTER

SOLID COVER ATTACHED (PER SECTION 7)

BREAK FORMED OR EXTRUDED END CAP W/ INSULATED PAN ROOF OR COMPOSITE ROOF PANEL. OPEN WITH PAN ROOF.

ALUMINUM BREAK FORMED 0.040" X 2" Z STRAP OR STANDARD L STRAP W/ (2) #10 x 3/4" S.M.S. OR 1/4" THRU-BOLT AND 1/2" PVC OR EQUAL FERRULE @ 24" O.C.

S.M. OR SNAP SECTION

(2) #10 x 1/2" S.M.S.

SUPER OR EXTRUDED GUTTER ATTACHED TO BEAM WITH 2-1/2" LONG S.M.S. SELECTED FROM SECTION 9 FOR BEAM SIZE SPACED AT 24" O.C.

FOR ALLOWABLE SPANS OF SUPER OR EXTRUDED GUTTER AND CARRIER BEAM (SEE TABLE 1.10)

SCREEN ROOF BEAM

VARIES

(2) 3/4" CORROSION RESISTIVE AND WASHER HEADED SCREWS (PER SECTION 9)

NOTE: BEAM MAY BE ATTACHED TO SUPER GUTTER AND SOLID ROOF TO S.M.B. PROVIDED A STRAP OR 1/2" P.V.C. OR EQUAL FERRULE IS PROVIDED AT EACH BEAM.

SUPER OR EXTRUDED GUTTER - SOLID ROOF / SCREEN ROOF COMBINATION

SCALE: 2" = 1'-0"

ALUMINUM FRAME SCREEN WALL

ANCHOR ALUMINUM FRAME TO WALL OR SLAB W/ 1/4" x 2-1/4" MASONRY ANCHOR @ 24" O.C. MAXIMUM

(1) #5 Ø BAR CONTINUOUS

CONCRETE ANCHORS SHALL EMBED INTO CONC. THROUGH CAP BLOCK OR BRICK 1-1/2" MIN.

CONCRETE CAP BLOCK OR BRICK (OPTIONAL)

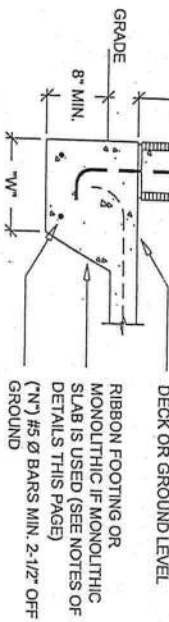
8" x 8" x 16" BLOCK WALL (MAX. 32')

(1) #4 BAR @ CORNERS AND X O.C. FILL CELLS AND KNOCK OUT BLOCK TOP COURSE W/ 2500 PSI PEA ROCK CONCRETE

DECK OR GROUND LEVEL

RIBBON FOOTING OR MONOLITHIC IF MONOLITHIC SLAB IS USED (SEE NOTES OF DETAILS THIS PAGE)

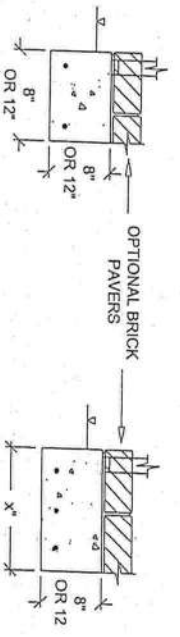
(1) #5 Ø BARS MIN. 2-1/2" OFF GROUND



KNEE WALL FOOTING FOR SCREENED ENCLOSURES

SCALE: 1/2" = 1'-0"

Knee Wall Table					
h	w	#3	N	#4	X
32"	12"	3	2	10-0"	
40"	12"	3	2	6-0"	
48"	18"	N/A	3	6-0"	
56"	18"	N/A	3	4-0"	
64"	24"	N/A	4	2-8"	
72"	30"	N/A	4	1-8"	



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: 1/2" = 1'-0"

ALUMINUM STRUCTURE (ALL FRONT WALLS)

FOOTING 2500 PSI CONCRETE W/ (1) #3Ø OR (1) #2Ø CONT. BARS MIN. 2-1/2" OFF GROUND

RIBBON FOOTING - TYPE 2

SCALE: 1/2" = 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	m1	m2	B	C	B	C	B	C	B	C	#10	#6Ø
8"	6"	2	1	15.4'	12.8'	15.4'	11.0'	12.8'	8.5'	11.0'	8.5'	82	0.12
12"	6"	2	1	23.0'	19.2'	23.0'	16.5'	19.2'	14.4'	16.5'	12.8'	72	0.13
12"	12"	3	2	23.0'	19.2'	23.0'	16.5'	19.2'	14.4'	16.5'	12.8'	72	0.13
12"	12"	3	2	24.0'	20.0'	24.0'	17.1'	15.0'	17.1'	13.3'	14.4'	0.26	3
12"	16"	3	2	36.0'	26.6'	31.9'	21.9'	25.6'	19.2'	21.9'	19.2'	0.35	4
12"	16"	3	2	37.9'	30.0'	36.0'	25.7'	30.0'	22.5'	25.7'	20.0'	0.39	4
12"	24"	4	3	48.0'	40.0'	48.0'	34.3'	40.0'	30.0'	34.3'	26.7'	0.52	2
12"	36"	4	3	57.8'	48.0'	57.8'	41.1'	48.0'	38.0'	41.1'	32.0'	0.55	2
12"	36"	4	3	59.1'	51.6'	59.1'	43.4'	51.6'	43.2'	49.4'	38.4'	0.76	3
Normal 4" Slab		100-125 MPH		126-134 MPH		135-144 MPH		145-150 MPH					
Depth	x	B	C	B	C	B	C	B	C	B	C		
3-1/2"		50.4'	42.0'	50.4'	35.0'	42.0'	31.5'	35.0'	23.0'				

m1 = number of #10 bars @ 0.11 sq. in. grade 60 steel

m2 = number of #50 bars @ 0.31 sq. in. grade 60 steel

UPRIGHT SIZE VARIES (2" x 6" SHOWN)

SLOPE OF GRADE MUST BE FLAT FOR AT LEAST 2' FROM OUTER SURFACE OF FOOTING

GRADE MAX. DIFFERENCE ± 8"

H1 = H2 = 24" MAX.

SEE POST TO DECK DETAILS ON PREVIOUS PAGES

UPRIGHT SIZE VARIES (2" x 6" SHOWN)

RETAINING WALL FOOTING - DETAIL 1

SCALE: 1/2" = 1'-0"

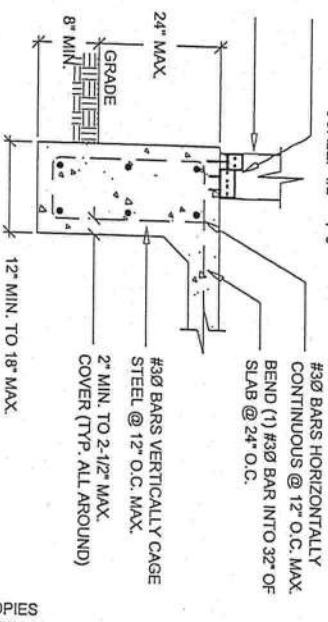
#3Ø BARS HORIZONTALLY CONTINUOUS @ 12" O.C. MAX.

BEND (1) #3Ø BAR INTO 32" OF SLAB @ 24" O.C.

#3Ø BARS VERTICALLY CAGE STEEL @ 12" O.C. MAX.

2" MIN. TO 2-1/2" MAX. COVER (TYP. ALL AROUND)

12" MIN. TO 18" MAX.



RETAINING WALL TO FOOTING - DETAIL 2

SCALE: 1/2" = 1'-0"

1/4" x 6" RAWL TAPPER THROUGH 1" x 2" AND ROWLOCK INTO FIRST COURSE OF BRICKS

ALTERNATE CONNECTION OF SCREENED ENCLOSURE FOR BRICK OR OTHER NON-STRUCTURAL KNEE WALL

1" WIDE x 0.063" THICK STRAP @ EACH POST FROM POST TO FOOTING W/ (2) #10 x 3/4" S.M.S. STRAP TO POST AND (1) 1/4" x 1-3/4" CONCRETE ANCHOR TO SLAB OR FOOTING

36" MAX.

ALUMINUM FRAME SCREEN WALL

CAP BRICK

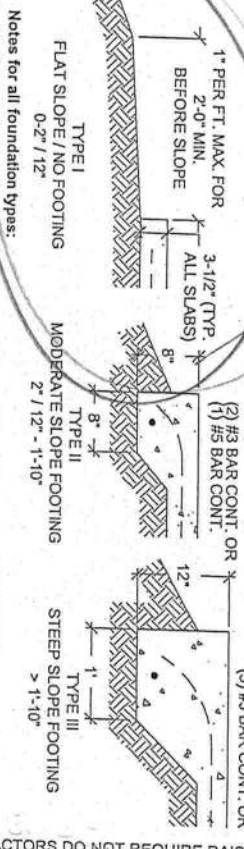
BRICK KNEEWALL TYPE 'S' MORTAR REQUIRED FOR LOAD BEARING BRICK WALL

4" (NOMINAL) PATIO CONCRETE SLAB (SEE NOTES CONCERNING FIBER MESH)

(3) #3Ø BARS OR (1) #5Ø BAR W/ 2-1/2" COVER (TYP.)

BRICK KNEEWALL AND FOUNDATION FOR SCREEN WALLS

SCALE: 1/2" = 1'-0"



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 to the left, 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™ #3™ (formerly Fibermesh MIP) 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

AUTHORIZED MASTER FILE CONTRACTORS DO NOT REQUIRE RAISED SEAL COPIES - ALL OTHER USERS REQUIRE RAISED SEAL COPIES USING THESE EAGLE 6061 TABLES, PLEASE REFER TO PAGE 1 FOR INSTRUCTIONS ON IDENTIFICATION AND CERTIFICATION OF EAGLE METALS 6061 ALLOY.

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

ALUMINUM STRUCTURES DESIGN MANUAL

SCREEN ENCLOSURES

SECTION 1 DETAILS

2004 FBC W/ 2006 SUPPLEMENTS

2006 EDITION

EAGLE METAL DISTRIBUTORS, INC.

◆ THE FREEDOM OF CHOICE ◆

603-B W. LANDSTREET ROAD, ORLANDO, FL 32824

TEL: 407-367-0688 FAX: 407-367-0684

Table 1.1 120 E Allowable Spans for Eagle Metal Distributors, Inc.
for Primary Screen Roof Frame Members

Aluminum Alloy 6061 T-6
For 110 & 120 MPH Wind Zones, 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"
2" x 2" x 0.043"	5'-3"	5'-3"	5'-3"
2" x 2" x 0.045"	6'-0"	6'-0"	6'-0"
2" x 2" x 0.047"	6'-6"	6'-6"	6'-6"
2" x 2" x 0.049"	7'-0"	7'-0"	7'-0"
2" x 2" x 0.051"	7'-6"	7'-6"	7'-6"
2" x 2" x 0.053"	8'-0"	8'-0"	8'-0"
2" x 2" x 0.055"	8'-6"	8'-6"	8'-6"
2" x 2" x 0.057"	9'-0"	9'-0"	9'-0"
2" x 2" x 0.059"	9'-6"	9'-6"	9'-6"
2" x 2" x 0.061"	10'-0"	10'-0"	10'-0"
2" x 2" x 0.063"	10'-6"	10'-6"	10'-6"
2" x 2" x 0.065"	11'-0"	11'-0"	11'-0"
2" x 2" x 0.067"	11'-6"	11'-6"	11'-6"
2" x 2" x 0.069"	12'-0"	12'-0"	12'-0"
2" x 2" x 0.071"	12'-6"	12'-6"	12'-6"
2" x 2" x 0.073"	13'-0"	13'-0"	13'-0"
2" x 2" x 0.075"	13'-6"	13'-6"	13'-6"
2" x 2" x 0.077"	14'-0"	14'-0"	14'-0"
2" x 2" x 0.079"	14'-6"	14'-6"	14'-6"
2" x 2" x 0.081"	15'-0"	15'-0"	15'-0"
2" x 2" x 0.083"	15'-6"	15'-6"	15'-6"
2" x 2" x 0.085"	16'-0"	16'-0"	16'-0"
2" x 2" x 0.087"	16'-6"	16'-6"	16'-6"
2" x 2" x 0.089"	17'-0"	17'-0"	17'-0"
2" x 2" x 0.091"	17'-6"	17'-6"	17'-6"
2" x 2" x 0.093"	18'-0"	18'-0"	18'-0"
2" x 2" x 0.095"	18'-6"	18'-6"	18'-6"
2" x 2" x 0.097"	19'-0"	19'-0"	19'-0"
2" x 2" x 0.099"	19'-6"	19'-6"	19'-6"
2" x 2" x 0.101"	20'-0"	20'-0"	20'-0"
2" x 2" x 0.103"	20'-6"	20'-6"	20'-6"
2" x 2" x 0.105"	21'-0"	21'-0"	21'-0"
2" x 2" x 0.107"	21'-6"	21'-6"	21'-6"
2" x 2" x 0.109"	22'-0"	22'-0"	22'-0"
2" x 2" x 0.111"	22'-6"	22'-6"	22'-6"
2" x 2" x 0.113"	23'-0"	23'-0"	23'-0"
2" x 2" x 0.115"	23'-6"	23'-6"	23'-6"
2" x 2" x 0.117"	24'-0"	24'-0"	24'-0"
2" x 2" x 0.119"	24'-6"	24'-6"	24'-6"
2" x 2" x 0.121"	25'-0"	25'-0"	25'-0"
2" x 2" x 0.123"	25'-6"	25'-6"	25'-6"
2" x 2" x 0.125"	26'-0"	26'-0"	26'-0"
2" x 2" x 0.127"	26'-6"	26'-6"	26'-6"
2" x 2" x 0.129"	27'-0"	27'-0"	27'-0"
2" x 2" x 0.131"	27'-6"	27'-6"	27'-6"
2" x 2" x 0.133"	28'-0"	28'-0"	28'-0"
2" x 2" x 0.135"	28'-6"	28'-6"	28'-6"
2" x 2" x 0.137"	29'-0"	29'-0"	29'-0"
2" x 2" x 0.139"	29'-6"	29'-6"	29'-6"
2" x 2" x 0.141"	30'-0"	30'-0"	30'-0"
2" x 2" x 0.143"	30'-6"	30'-6"	30'-6"
2" x 2" x 0.145"	31'-0"	31'-0"	31'-0"
2" x 2" x 0.147"	31'-6"	31'-6"	31'-6"
2" x 2" x 0.149"	32'-0"	32'-0"	32'-0"
2" x 2" x 0.151"	32'-6"	32'-6"	32'-6"
2" x 2" x 0.153"	33'-0"	33'-0"	33'-0"
2" x 2" x 0.155"	33'-6"	33'-6"	33'-6"
2" x 2" x 0.157"	34'-0"	34'-0"	34'-0"
2" x 2" x 0.159"	34'-6"	34'-6"	34'-6"
2" x 2" x 0.161"	35'-0"	35'-0"	35'-0"
2" x 2" x 0.163"	35'-6"	35'-6"	35'-6"
2" x 2" x 0.165"	36'-0"	36'-0"	36'-0"
2" x 2" x 0.167"	36'-6"	36'-6"	36'-6"
2" x 2" x 0.169"	37'-0"	37'-0"	37'-0"
2" x 2" x 0.171"	37'-6"	37'-6"	37'-6"
2" x 2" x 0.173"	38'-0"	38'-0"	38'-0"
2" x 2" x 0.175"	38'-6"	38'-6"	38'-6"
2" x 2" x 0.177"	39'-0"	39'-0"	39'-0"
2" x 2" x 0.179"	39'-6"	39'-6"	39'-6"
2" x 2" x 0.181"	40'-0"	40'-0"	40'-0"
2" x 2" x 0.183"	40'-6"	40'-6"	40'-6"
2" x 2" x 0.185"	41'-0"	41'-0"	41'-0"
2" x 2" x 0.187"	41'-6"	41'-6"	41'-6"
2" x 2" x 0.189"	42'-0"	42'-0"	42'-0"
2" x 2" x 0.191"	42'-6"	42'-6"	42'-6"
2" x 2" x 0.193"	43'-0"	43'-0"	43'-0"
2" x 2" x 0.195"	43'-6"	43'-6"	43'-6"
2" x 2" x 0.197"	44'-0"	44'-0"	44'-0"
2" x 2" x 0.199"	44'-6"	44'-6"	44'-6"
2" x 2" x 0.201"	45'-0"	45'-0"	45'-0"
2" x 2" x 0.203"	45'-6"	45'-6"	45'-6"
2" x 2" x 0.205"	46'-0"	46'-0"	46'-0"
2" x 2" x 0.207"	46'-6"	46'-6"	46'-6"
2" x 2" x 0.209"	47'-0"	47'-0"	47'-0"
2" x 2" x 0.211"	47'-6"	47'-6"	47'-6"
2" x 2" x 0.213"	48'-0"	48'-0"	48'-0"
2" x 2" x 0.215"	48'-6"	48'-6"	48'-6"
2" x 2" x 0.217"	49'-0"	49'-0"	49'-0"
2" x 2" x 0.219"	49'-6"	49'-6"	49'-6"
2" x 2" x 0.221"	50'-0"	50'-0"	50'-0"
2" x 2" x 0.223"	50'-6"	50'-6"	50'-6"
2" x 2" x 0.225"	51'-0"	51'-0"	51'-0"
2" x 2" x 0.227"	51'-6"	51'-6"	51'-6"
2" x 2" x 0.229"	52'-0"	52'-0"	52'-0"
2" x 2" x 0.231"	52'-6"	52'-6"	52'-6"
2" x 2" x 0.233"	53'-0"	53'-0"	53'-0"
2" x 2" x 0.235"	53'-6"	53'-6"	53'-6"
2" x 2" x 0.237"	54'-0"	54'-0"	54'-0"
2" x 2" x 0.239"	54'-6"	54'-6"	54'-6"
2" x 2" x 0.241"	55'-0"	55'-0"	55'-0"
2" x 2" x 0.243"	55'-6"	55'-6"	55'-6"
2" x 2" x 0.245"	56'-0"	56'-0"	56'-0"
2" x 2" x 0.247"	56'-6"	56'-6"	56'-6"
2" x 2" x 0.249"	57'-0"	57'-0"	57'-0"
2" x 2" x 0.251"	57'-6"	57'-6"	57'-6"
2" x 2" x 0.253"	58'-0"	58'-0"	58'-0"
2" x 2" x 0.255"	58'-6"	58'-6"	58'-6"
2" x 2" x 0.257"	59'-0"	59'-0"	59'-0"
2" x 2" x 0.259"	59'-6"	59'-6"	59'-6"
2" x 2" x 0.261"	60'-0"	60'-0"	60'-0"
2" x 2" x 0.263"	60'-6"	60'-6"	60'-6"
2" x 2" x 0.265"	61'-0"	61'-0"	61'-0"
2" x 2" x 0.267"	61'-6"	61'-6"	61'-6"
2" x 2" x 0.269"	62'-0"	62'-0"	62'-0"
2" x 2" x 0.271"	62'-6"	62'-6"	62'-6"
2" x 2" x 0.273"	63'-0"	63'-0"	63'-0"
2" x 2" x 0.275"	63'-6"	63'-6"	63'-6"
2" x 2" x 0.277"	64'-0"	64'-0"	64'-0"
2" x 2" x 0.279"	64'-6"	64'-6"	64'-6"
2" x 2" x 0.281"	65'-0"	65'-0"	65'-0"
2" x 2" x 0.283"	65'-6"	65'-6"	65'-6"
2" x 2" x 0.285"	66'-0"	66'-0"	66'-0"
2" x 2" x 0.287"	66'-6"	66'-6"	66'-6"
2" x 2" x 0.289"	67'-0"	67'-0"	67'-0"
2" x 2" x 0.291"	67'-6"	67'-6"	67'-6"
2" x 2" x 0.293"	68'-0"	68'-0"	68'-0"
2" x 2" x 0.295"	68'-6"	68'-6"	68'-6"
2" x 2" x 0.297"	69'-0"	69'-0"	69'-0"
2" x 2" x 0.299"	69'-6"	69'-6"	69'-6"
2" x 2" x 0.301"	70'-0"	70'-0"	70'-0"
2" x 2" x 0.303"	70'-6"	70'-6"	70'-6"
2" x 2" x 0.305"	71'-0"	71'-0"	71'-0"
2" x 2" x 0.307"	71'-6"	71'-6"	71'-6"
2" x 2" x 0.309"	72'-0"	72'-0"	72'-0"
2" x 2" x 0.311"	72'-6"	72'-6"	72'-6"
2" x 2" x 0.313"	73'-0"	73'-0"	73'-0"
2" x 2" x 0.315"	73'-6"	73'-6"	73'-6"
2" x 2" x 0.317"	74'-0"	74'-0"	74'-0"
2" x 2" x 0.319"	74'-6"	74'-6"	74'-6"
2" x 2" x 0.321"	75'-0"	75'-0"	75'-0"
2" x 2" x 0.323"	75'-6"	75'-6"	75'-6"
2" x 2" x 0.325"	76'-0"	76'-0"	76'-0"
2" x 2" x 0.327"	76'-6"	76'-6"	76'-6"
2" x 2" x 0.329"	77'-0"	77'-0"	77'-0"
2" x 2" x 0.331"	77'-6"	77'-6"	77'-6"
2" x 2" x 0.333"	78'-0"	78'-0"	78'-0"
2" x 2" x 0.335"	78'-6"	78'-6"	78'-6"
2" x 2" x 0.337"	79'-0"	79'-0"	79'-0"
2" x 2" x 0.339"	79'-6"	79'-6"	79'-6"
2" x 2" x 0.341"	80'-0"	80'-0"	80'-0"
2" x 2" x 0.343"	80'-6"	80'-6"	80'-6"
2" x 2" x 0.345"	81'-0"	81'-0"	81'-0"
2" x 2" x 0.347"	81'-6"	81'-6"	81'-6"
2" x 2" x 0.349"	82'-0"	82'-0"	82'-0"
2" x 2" x 0.351"	82'-6"	82'-6"	82'-6"
2" x 2" x 0.353"	83'-0"	83'-0"	83'-0"
2" x 2" x 0.355"	83'-6"	83'-6"	83'-6"
2" x 2" x 0.357"	84'-0"	84'-0"	84'-0"
2" x 2" x 0.359"	84'-6"	84'-6"	84'-6"
2" x 2" x 0.361"	85'-0"	85'-0"	85'-0"
2" x 2" x 0.363"	85'-6"	85'-6"	85'-6"
2" x 2" x 0.365"	86'-0"	86'-0"	86'-0"
2" x 2" x 0.367"	86'-6"	86'-6"	86'-6"
2" x 2" x 0.369"	87'-0"	87'-0"	87'-0"
2" x 2" x 0.371"	87'-6"	87'-6"	87'-6"
2" x 2" x 0.373"	88'-0"	88'-0"	88'-0"
2" x 2" x 0.375"	88'-6"	88'-6"	88'-6"
2" x 2" x 0.377"	89'-0"	89'-0"	89'-0"
2" x 2" x 0.379"	89'-6"	89'-6"	89'-6"
2" x 2" x 0.381"	90'-0"	90'-0"	90'-0"
2" x 2" x 0.383"	90'-6"	90'-6"	90'-6"
2" x 2" x 0.385"	91'-0"	91'-0"	91'-0"
2" x 2" x 0.387"	91'-6"	91'-6"	91'-6"
2" x 2" x 0.389"	92'-0"	92'-0"	92'-0"
2" x 2" x 0.391"	92'-6"	92'-6"	92'-6"
2" x 2" x 0.393"	93'-0"	93'-0"	93'-0"
2" x 2" x 0.395"	93'-6"	93'-6"	93'-6"
2" x 2" x 0.397"	94'-0"	94'-0"	94'-0"
2" x 2" x 0.399"	94'-6"	94'-6"	94'-6"
2" x 2" x 0.401"	95'-0"	95'-0"	95'-0"
2" x 2" x 0.403"	95'-6"	95'-6"	95'-6"
2" x 2" x 0.405"	96'-0"	96'-0"	96'-0"
2" x 2" x 0.407"	96'-6"	96'-6"	96'-6"
2" x 2" x 0.409"	97'-0"	97'-0"	97'-0"
2" x 2" x 0.411"	97'-6"	97'-6"	97'-6"
2" x 2" x 0.413"	98'-0"	98'-0"	98'-0"
2" x 2" x 0.415"	98'-6"	98'-6"	98'-6"
2" x 2" x 0.417"	99'-0"	99'-0"	99'-0"
2" x 2" x 0.419"	99'-6"	99'-6"	99'-6"
2" x 2" x 0.421"	100'-0"	100'-0"	100'-0"
2" x 2" x 0.423"	100'-6"	100'-6"	100'-6"
2" x 2" x 0.425"	101'-0"	101'-0"	101'-0"
2" x 2" x 0.427"	101'-6"	101'-6"	101'-6"
2" x 2" x 0.429"	102'-0"	102'-0"	102'-0"
2" x 2" x 0.431"	102'-6"	102'-6"	102'-6"
2" x 2" x 0.433"	103'-0"	103'-0"	103'-0"
2" x 2" x 0.435"	103'-6"	103'-6"	103'-6"
2" x 2" x 0.437"	104'-0"	104'-0"	104'-0"
2" x 2" x 0.439"	104'-6"	104'-6"	104'-6"
2" x 2" x 0.441"	105'-0"	105'-0"	105'-0"
2" x 2" x 0.443"	105'-6"	105'-6"	105'-6"
2" x 2" x 0.445"	106'-0"	106'-0"	106'-0"
2" x 2" x 0.447"	106'-6"	106'-6"	106'-6"
2" x 2" x 0.449"	107'-0"	107'-0"	107'-0"
2" x 2" x 0.451"	107'-6"	107'-6"	107'-6"
2" x 2" x 0.453"	108'-0"	108'-0"	108'-0"
2" x 2" x 0.455"	108'-6"	108'-6"	108'-6"
2" x 2" x 0.457"	109'-0"	109'-0"	109'-0"
2" x 2" x 0.459"	109'-6"	109'-6"	109'-6"
2" x 2" x 0.461"	110'-0"	110'-0"	110'-0"
2" x 2" x 0.463"	110'-6"	110'-6"	110'-6"
2" x 2" x 0.465"	111'-0"	111'-0"	111'-0"
2" x 2" x 0.467"	111'-6"	111'-6"	111'-6"
2" x 2" x 0.469"	112'-0"	112'-0"	112'-0"
2" x 2" x 0.471"	112'-6"	112'-6"	112'-6"
2" x 2" x 0.473"	113'-0"	113'-0"	113'-0"
2" x 2" x 0.475"	113'-6"	113'-6"	113'-6"
2" x 2" x 0.477"	114'-0"	114'-0"	114'-0"
2" x 2" x 0.479"	114'-6"	114'-6"	114'-6"
2" x 2" x 0.481"	115'-0"	115'-0"	115'-0"
2" x 2" x 0.483"	115'-6"	115'-6"	115'-6"
2" x 2" x 0.485"	116'-0"	116'-0"	116'-0"
2" x 2" x 0.487"	116'-6"	116'-6"	116'-6"
2" x 2" x 0.489"	117'-0"	117'-0"	117'-0"
2" x 2" x 0.491"	117'-6"	117'-6"	117'-6"
2" x 2" x 0.493"	118'-0"	118'-0"	118'-0"
2" x 2" x 0.495"	118'-6"	118'-6"	118'-6"
2" x 2" x 0.497"	119'-0"	119'-0"	119'-0"
2" x 2" x 0.499"	119'-6"	119'-6"	119'-6"
2" x 2" x 0.501"	120'-0"	120'-0"	120'-0"
2" x 2" x 0.503"	120'-6"	120'-6"	120'-6"
2" x 2" x 0.505"	121'-0"	121'-0"	121'-0"
2" x 2" x 0.507"	121'-6"	121'-6"	121'-6"
2" x 2" x 0.509"	122'-0"	122'-0"	122'-0"
2" x 2" x 0.511"	122'-6"	122'-6"	

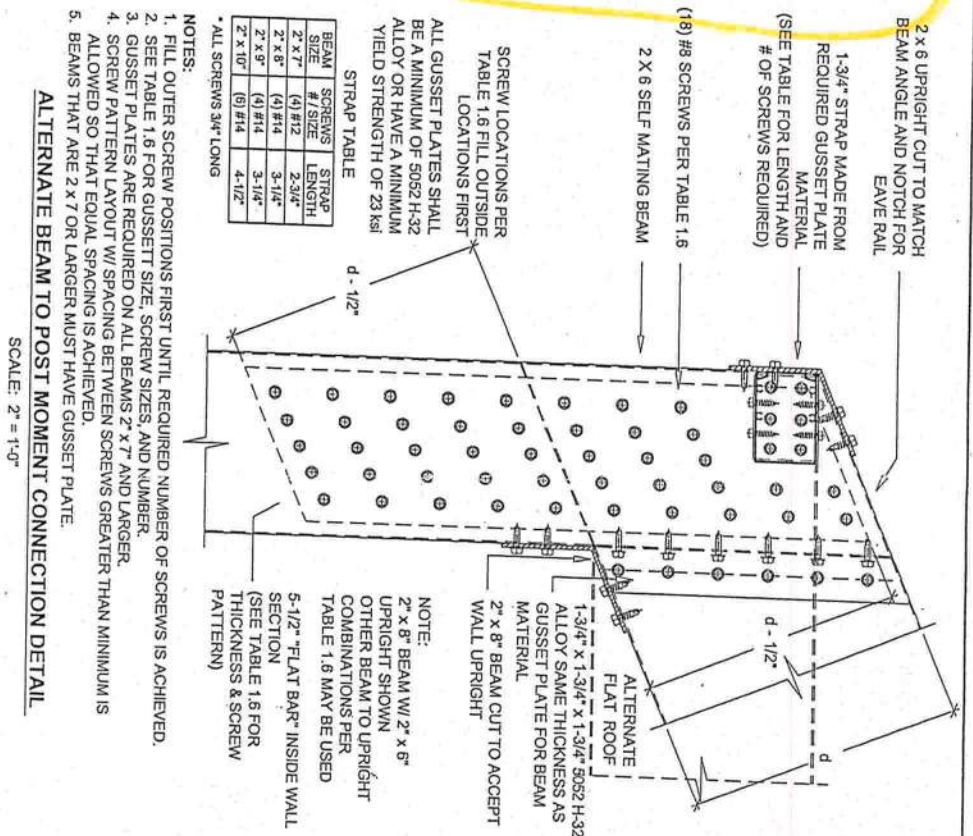
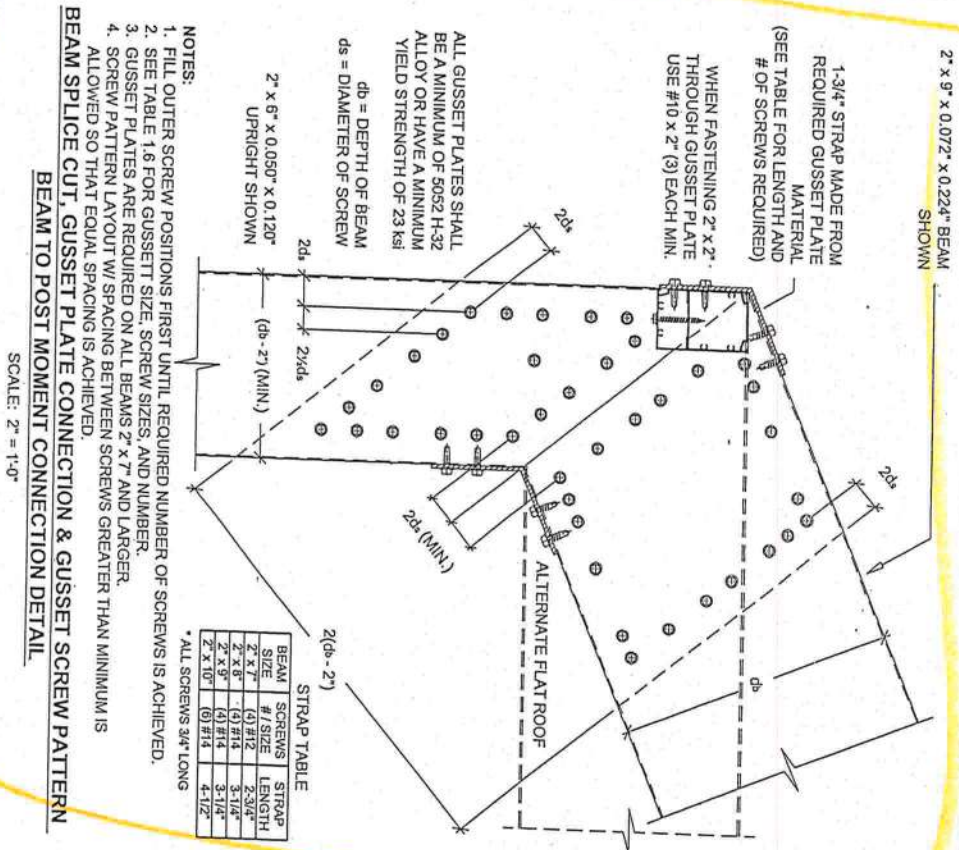


Table 1.1 120M E 6061 Moment Connection Allowable Spans for Eagle Metal Distributors, Inc. for Primary Screen Roof Frame Members Aluminum Alloy 6061 T-6

For 110 & 120 MPH Wind Zones, 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"	10'-0"	11'-0"
2" x 2" x 0.043"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"
3" x 2" x 0.045"	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"
3" x 2" x 0.070"	10'-8"	10'-8"	10'-8"	10'-8"	10'-8"	10'-8"	10'-8"	10'-8"	10'-8"
2" x 3" x 0.045"	9'-8"	9'-8"	9'-8"	9'-8"	9'-8"	9'-8"	9'-8"	9'-8"	9'-8"
2" x 4" x 0.050"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"
2" x 5" x 0.060"	27'-3"	27'-3"	27'-3"	27'-3"	27'-3"	27'-3"	27'-3"	27'-3"	27'-3"

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 15'. 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 15' 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 1-1.

Table 1.3 110M E 6061 Moment Connection Allowable Post Upright Heights for Eagle Metal Distributors, Inc. for Primary Screen Wall Frame Members Aluminum Alloy 6061 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 #/sq. ft.									
Tributary Load Width W = Member Spacing									
Hollow Sections	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"
2" x 2" x 0.043"	9'-5"	8'-2"	7'-3"	6'-7"	6'-1"	5'-8"	5'-3"	5'-3"	5'-3"
3" x 2" x 0.045"	10'-11"	9'-5"	8'-4"	7'-7"	6'-11"	6'-5"	6'-1"	6'-1"	6'-1"
3" x 2" x 0.070"	12'-9"	11'-7"	10'-9"	9'-2"	8'-1"	7'-10"	7'-11"	7'-11"	7'-11"
2" x 3" x 0.045"	13'-3"	11'-5"	10'-2"	9'-2"	8'-5"	7'-10"	7'-4"	7'-4"	7'-4"
2" x 4" x 0.050"	16'-10"	14'-5"	12'-10"	11'-9"	10'-4"	9'-11"	8'-3"	8'-3"	8'-3"
2" x 5" x 0.060"	22'-8"	19'-9"	17'-7"	16'-0"	14'-10"	13'-11"	13'-1"	13'-1"	13'-1"

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. The specific engineering required for roof 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. Check for 2" x 2" x 0.044" min. and set @ 36" in height are designed to be residential guardrails provided they are attached with (a) 1/2" x 1/2" S.M.S. into the screw bosses and do not exceed 9'-0" in span.
7. Max beam size (2" x 5" x 0.060" or 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 1-1.

Table 1.3 1M E 6061 Moment Connection Allowable Spans for Eagle Metal Distributors, Inc. for Primary Screen Roof Frame Members Aluminum Alloy 6061 T-6

For Areas in Wind Zones up to 130 M.P.H., Exposure "B" and Latitudes North of 30°-30'-00" North (Jacksonville, FL)									
Uniform Load = 15 #/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"	10'-0"	11'-0"
2" x 2" x 0.043"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"
3" x 2" x 0.045"	8'-11"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"
3" x 2" x 0.070"	12'-2"	10'-11"	10'-11"	10'-11"	10'-11"	10'-11"	10'-11"	10'-11"	10'-11"
2" x 3" x 0.045"	12'-3"	10'-5"	9'-3"	8'-4"	7'-8"	7'-9"	7'-4"	7'-4"	7'-4"
2" x 4" x 0.050"	15'-5"	13'-4"	11'-9"	10'-7"	9'-9"	8'-11"	8'-4"	8'-4"	8'-4"
2" x 5" x 0.060"	21'-1"	18'-3"	16'-4"	14'-11"	13'-10"	12'-11"	12'-2"	12'-2"	12'-2"

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 15'. 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 15' 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 1-1.

Table 1.3 2M E 6061 Moment Connection Allowable Spans for Eagle Metal Distributors, Inc. for Primary Screen Roof Frame Members Aluminum Alloy 6061 T-6

For Areas in Wind Zones up to 130 M.P.H., Exposure "B" and Latitudes North of 30°-30'-00" North (Jacksonville, FL)									
Uniform Load = 15 #/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"	10'-0"	11'-0"
2" x 2" x 0.043"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"
3" x 2" x 0.045"	6'-10"	6'-10"	6'-10"	6'-10"	6'-10"	6'-10"	6'-10"	6'-10"	6'-10"
3" x 2" x 0.070"	7'-9"	7'-9"	7'-9"	7'-9"	7'-9"	7'-9"	7'-9"	7'-9"	7'-9"
2" x 3" x 0.045"	6'-7"	6'-7"	6'-7"	6'-7"	6'-7"	6'-7"	6'-7"	6'-7"	6'-7"
2" x 4" x 0.050"	11'-3"	11'-3"	11'-3"	11'-3"	11'-3"	11'-3"	11'-3"	11'-3"	11'-3"
2" x 5" x 0.060"	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"

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 15'. 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 15' 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 1-1.

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

Upright or Post					Minimum Purlin, Girt or Knee Brace Size					Notes					Minimum Number of Screws*					Beam Splicing						
Beam/Upright or Post					Upright or Post/Beam					Minimum Purlin, Girt or Knee Brace Size					Notes					Minimum Number of Screws*					Beam Splicing	
2 x 4 S.M.B.					2 x 4 S.M.B.					2" x 2" x 0.044"					Moment Connection					8					#3	
2 x 5 S.M.B.					2 x 4 S.M.B.					2" x 2" x 0.044"					Moment Connection					8					#3	
2 x 6 S.M.B.					2 x 4 S.M.B.					2" x 2" x 0.044"					Moment Connection					8					#3	
2 x 7 S.M.B.					2 x 4 S.M.B.					2" x 2" x 0.044"					Moment Connection					10					#10	
2 x 8 S.M.B.					2 x 6 S.M.B.					2" x 3" x 0.044"					Moment Connection					14					#14	
2 x 9 S.M.B.					2 x 6 S.M.B.					2" x 3" x 0.045"					Moment Connection					18					#18	
2 x 9 S.M.B. **					2 x 7 S.M.B.					2" x 4" x 0.050"					Moment Connection					20					#14	
2 x 10 S.M.B.					2 x 8 S.M.B.					2" x 5" x 0.050"					Moment Connection					20					#14	
Screw Size					Minimum Distance and Spacing of Screws					Center to Center					Center to Center					Beam Size					Thickness	
#8					5/8"					3/8"					5/8"					2" x 7" x 0.055" x 0.120"					0.053"	
#10					3/8"					3/8"					5/8"					2" x 8" x 0.072" x 0.120"					0.083"	
#12					1/2"					1/2"					1/2"					2" x 8" x 0.072" x 0.120"					0.125"	
#14 or 1/4"					3/4"					1/2"					1/2"					2" x 9" x 0.082" x 0.130"					0.135"	
5/16"					1"					1"					1"					2" x 10" x 0.082" x 0.130"					0.150"	
3/8"					1"					1"					1"					2" x 10" x 0.092" x 0.150"					0.250"	