

D 09/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000027415

APPLICANT DREW TURNER PHONE 352 208-8821
ADDRESS 1707 SW 27TH PLACE Ocala FL 34471
OWNER JOHN & KAREN DEARDORFF PHONE 352 274-1548
ADDRESS 861 NW BLACKBERRY CIRCLE LAKE CITY FL 32055
CONTRACTOR COASTAL CRAFTSMENS PHONE 352 369-1444
LOCATION OF PROPERTY 90W, TR BROWN RD, TR NASH, TL BLACKBERRY CR, TL ON FIRST ROAD, 11TH LOT ON LEFT
TYPE DEVELOPMENT POOL ENCLOSURE ESTIMATED COST OF CONSTRUCTION 9345.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING A-3 MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 17-3S-16-02168-110 SUBDIVISION BLACKBERRY FARMS
LOT 10 BLOCK PHASE UNIT TOTAL ACRES

CGC047465

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING X08-328 BK WR N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: IMPACT FEE EXEMPT/ACCESSORY USE, NOC ON FILE

Check # or Cash 7556

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 \$ 50.00 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** 50.00
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

This Instrument Prepared By:

Name: _____
Address: _____

Permit No. # _____
Tax Folio/Parcel ID: 17-35-16-02168-110
State: FLORIDA
County: Columbia County

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By Sharon Seagle
Deputy Clerk
Date 10-2-2008



Inst:200812018118 Date:10/2/2008 Time:2:00 PM
14 DC, P. DeWitt Cason, Columbia County Page 1 of 1 B:1159 P:1505

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

1. Description of property (legal description, lot, block and street address if available):
Lot 10 Blackberry Farms S/D WD 1036-1438,
WD 1141-2036
861 NW Blackberry Circle Lake City 32055
2. General description of improvement: SCREENED POOL ENCLOSURE
3. Owner name/address: John & Karen Deardorff
1707 SW 27th Place Ocala FL
3b. Interest in property: Owner
3c. Name and address of fee simple title holder (if other than owner): N/A

4. Contractor - Qualifier Name and Address: Coastal Craftsmen Aluminum -dba- William Woodard
1406 SW 15 Avenue - Ocala - Florida - 34471

5. Surety - Name and Address: N/A
Amount of bond: \$ _____

6. Lender - Name and Address: N/A

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7, Florida Statutes: N/A

8. In addition to him/herself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes [Provide Name/Mailing Address]: N/A

9. NoC expiration date (one full year from the date of recording unless different date is specified): N/A

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 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.

[Signature]
Signature of Owner (or Owner's Authorized Officer/
Director/Partner/Manager)

9/18/08
Date

STATE OF FLORIDA
County of _____

The foregoing instrument was acknowledged before me this 18th day of September, 2008,
by _____ (print name of person) as _____ type of
authority, e.g. officer, trustee, attorney in fact) for _____ (name of
party on behalf of whom instrument was executed).

Jennifer Jones
Notary Public

Seal:

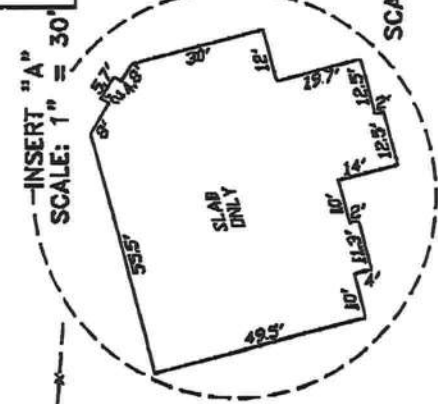
Personally Known _____ -OR- Produced Identification _____ Type of Identification Produced _____

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.

[Signature]
Signature of Natural Person Signing Above



BOUNDARY SURVEY IN SECTION 17, TOWNSHIP 3 SOUTH,
RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.



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

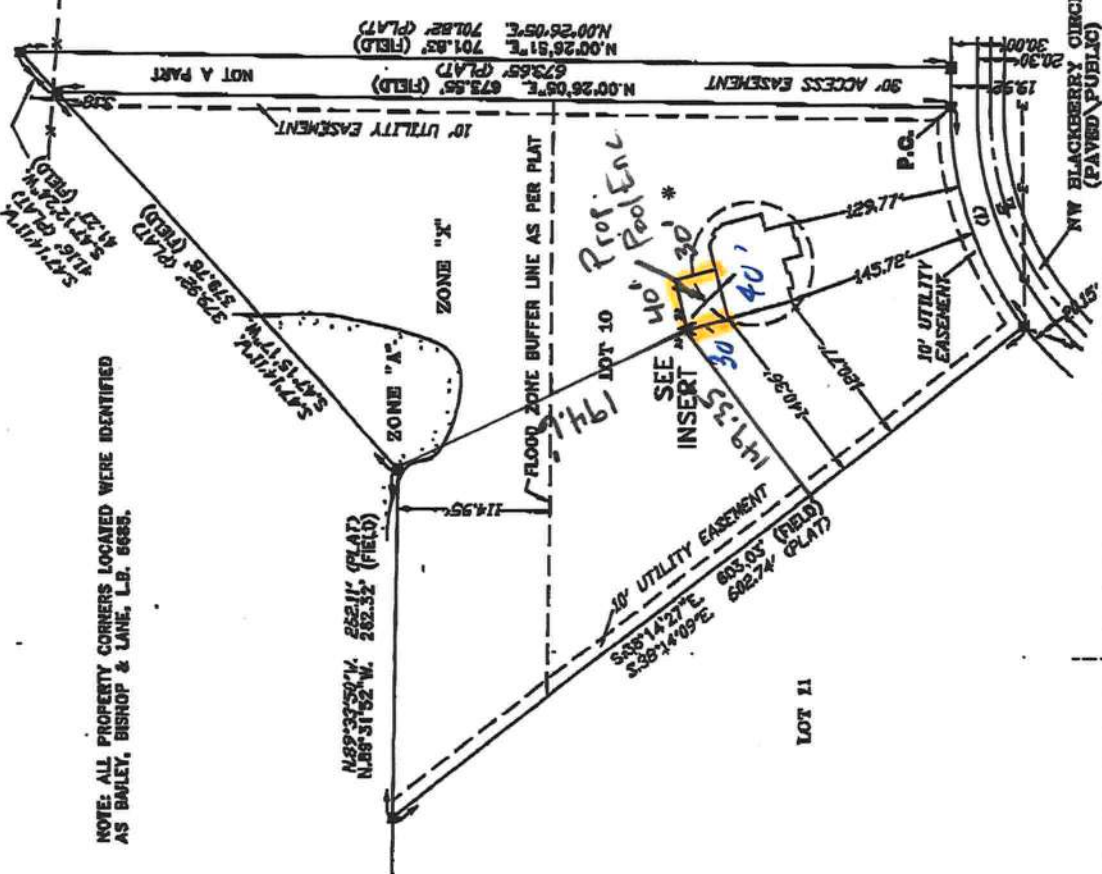
SCALE: 1" = 100'

CURVE TABLE

NZ	RADIUS	DELTA	ARC	TANGENT	CHORD	CHORD BEARING
1	260.00'	38°33'26"	173.42'	91.20'	172.11'	N71°06'36"E
2	250.00'	38°40'12"	175.48'		172.17'	N71°05'58"E

DESCRIPTION
LOT 10 OF "BLACKBERRY FARMS" AS PER PLAT THEREOF RECORDED IN PRRD BOOK 1, PAGES 4-12 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES**
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
 2. BEARINGS ARE BASED ON SAID PLAT OF RECORD.
 3. SOME PORTIONS OF THIS PARCEL ARE IN ZONE "A" AND MAY BE SUBJECT TO FLOODING. HOWEVER, NO BASE FLOOD ELEVATION HAS BEEN DETERMINED FOR ZONE "A". SOME PORTIONS OF THIS PARCEL ARE IN ZONE "X" AND ARE DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD INSURANCE RATE MAP, DATED 6 JAN 1989 COMMUNITY PANEL NO. 126070 DTS B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
 4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
 5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
 6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
 7. ABBREVIATIONS TABLE BUT IS A COMMON SURVEY TERM FOR "POINT OF CURVE".



CERTIFIED TO:
JOHN DEARBERT
MERCANTILE BANK
SERVIA TITLE, LLC
TICOR TITLE INSURANCE COMPANY

FIELD BOOK, SEE PAGE(S) FILE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY PERSONAL SUPERVISION AND THAT THE MARCH 1989 FLOOD INSURANCE RATE MAP, DATED 6 JAN 1989 COMMUNITY PANEL NO. 126070 DTS B, WAS USED TO DETERMINE THE FLOOD PLAIN. I AM A LICENSED SURVEYOR AND I HAVE NO KNOWLEDGE OF ANY OTHER FACTS THAT WOULD AFFECT THE ACCURACY OF THIS SURVEY.

DATE: 06/03/08
FIELD SURVEY: 06/03/08
SURVEYOR: [Signature]
COLUMBIA COUNTY, FLORIDA

BRITT SURVEYING & ASSOCIATES, INC.

LAND SURVEYORS AND MAPPERS
800 WEST ROYAL STREET, SUITE 100
COLUMBIA COUNTY, FLORIDA 32609
PHONE: 352/326-7163 FAX: 352/326-3573
WORK ORDER # L-19339



(1x4 NOUTCH AT TOP 2x4 S.M.B.)

(EACH SIDE.)

(1) = RUN S.G. TO END OF HOUSE
W/D.S. AROUND CORNER.

 $\frac{1}{2} \text{ZCS}$

2x2 3/4 REL. FEU	2x2		
	2x2	(4) SMS 1215/8	1x2-2-633/4
		A $\frac{m^{15}n}{f^2}$	
		(4) SMS 1243/8	
		D $\frac{1233/8}{123'1/4}$	
		B 255 ^{1/2} 2x2	
		(4) SMS 124'1/4	
		C $\frac{m^{15}n^2}{f^2}$	
		(4) SMS 124'1/4	
		D $\frac{m^{15}n^2}{f^2}$	
		(4) SMS 124'1/8	
		E $\frac{m^{15}n^2}{f^2}$	
			1x2-122'1/8

☒ WALL 1085 } 2395
☒ ROOF 1310 } (SHOP)

L.F. 5.6.62

B.O.S. THE H2'S

B.O.T. LANE'S

1. 3x9
1. 12x9
1. 14x5

2
4
T
③
2
H
1

1971-72

42.29

529 1/2

53112

Hand-drawn floor plan of a rectangular room. The overall dimensions are 12' 5/8" by 12' 3/4". The plan shows a central area with four numbered locations (1, 2, 3, 4) for equipment. The perimeter is lined with 8' 6 1/4" high cabinets. The corners are marked with 8' 8 1/4" and 11' 1/4" dimensions. The plan is oriented with a north arrow pointing towards the top-left corner.

8' 8 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	8' 8 1/4"
11' 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	11' 1/4"
8' 8 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	8' 8 1/4"
11' 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	8' 6 1/4"	11' 1/4"

۵۱۱

258-1213/4

$$267 \leftarrow 200\frac{1}{4} \leftarrow 21,33\frac{1}{2} \leftarrow$$
$$= (v_1, v_2)$$
 $(11/8)$ [illegible]

1x2-1205/8

MOMENT CONT.
BENNETT ENCL.
2x4 P.B. PERISH.
2x2, 2x4 CHAIR RAIL
2x2, S.M.B. C.R. 2.
1x2, DOOR SAN C.R. T.



20214

$$15^\circ \rightarrow 67\frac{3}{4} \rightarrow 134\frac{1}{2} \quad 15^\circ$$

333

333 1/4

(#1-5) 5 PR. 2x8 - ~~3~~ S.W.B. BRZ.

27-9314"

30°
 $2\frac{1}{2}''$

30°
HOUSE

$5\frac{1}{2}$
 37.960
 $65\frac{3}{4}$
 $33\frac{3}{4}$
 $(51\frac{1}{2})_{16}$

END PAGE NEEDED BY PROPERTY OWNER
Signature

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0810-05 Date Received 10/2 By JW Permit # 27415
Application Approved by - Zoning Official BLK Date 07.10.08 Plans Examiner (u) Date 10/3/08
Flood Zone X Development Permit N/A Zoning PRRD Land Use Plan Map Category A-3
Comments Impact Fee Exempt - Accessory Use
☒ NOC proof of ownership DEH Letter of Authorization

Applicants Name DREW TURNER Phone 352-200-8821
Address 1707 SW 27th Place Ocala FL 34471
Owners Name John & Karen Deardorff Phone ---
911 Address 861 NW Blackberry Circle Lake City 32055
Contractors Name COASTAL CRAFTSMAN - William Woodard 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. - Progressive Energy

Property ID Number 17-35-16-02168-110 Estimated Cost of Construction 9,345.00

Subdivision Name Blackberry Farms Lot 10 Block --- Unit --- Phase ---

Driving Directions 175 North to 252B west - to brown Rd right. to Bert Road Right, to Nash Road left to Blackberry Farms right - house at end on coldsac.

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

Total Acreage 4.470 Lot Size --- Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 40/85 Side 30 Side 30 Rear 40

Total Building Height 10'-4 1/2" Number of Stories 1 Heated Floor Area 140 ± Roof Pitch ---

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

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Agent (Including Contractor) JENNIFER I. JONES

STATE OF FLORIDA
COUNTY OF COLUMBIA



Comm# DD0762241
Expires 2/25/2012
Florida Notary Assn., Inc

Sworn to (or affirmed) and subscribed before me

this 1st day of October 20 08.

Personally known X or Produced Identification ---

Contractor Signature CGC047465
Contractors License Number ---
Competency Card Number ---
NOTARY STAMP/SEAL

Notary Signature Jennifer Jones

LOT 10 BLACKBERRY FARMS S/D. DEARDORFF JOHN A & COLUMBIA COUNTY 2008 R
WD 1036-1438, WD 1141-2036, KAREN L DEARDORFF CARD 001 of 001
1707 SW 27TH PLACE BY JEFF
OCALA, FL 34471

17-3S-16-02168-110 8/04/2008 13:57 PRINTED 7/10/2006 DF
AE? HTD AREA .000 INDEX 17316.00 DIST 3 STR 17-3S-16 PUSE 000000 VACANT
EFF AREA 71.670 E-RATE .000 INDX AVB MKT AREA 01
RCN AC (PUD1) 4.470
%GOOD BLDG VAL
FIELD CK: *
LOC: BLACKBERRY FARMS *
BATH *
MOD *
EXW *
RSTR *
RCVR *
INTW *
FLOR *
HTTP *
A/C *
QUAL *
FNDN *
SIZE *
CEIL *
ARCH *
FRME *
KTCH *
WNDO *
CLAS *
OCC *
COND *
SUB A-AREA % E-AREA SUB VALUE

0 BLDG 0 BLDG
0 XFOB 0 XFOB
0 AG 0 AG
0 MKAG 0 MKAG
64,368 JUST 64,368 JUST
0 CLAS 0 CLAS
0 SOHD 0 SOHD
0 ASSD 0 ASSD
0 EXPT 0 EXPT
0 COTXBL 0 COTXBL

TXDT 003

BLDG TRAVERSE

PERMITS AMT ISSUED
26746 SFR 1,566 2/12/2008

BOOK PAGE DATE PRICE
1141 2036 1/28/2008 Q V 95000
GRANTOR JAMES A & JUANA JO LYTTE
GRANTEE JOHN A & KAREN L DEARDORFF
1036 1438 1/25/2005 Q V 119900
GRANTOR DANIEL CRAPPS
GRANTEE JAMES A & JUANA JO LYTTE

SALE
ADJ UT PR SPCD % %GOOD XFOB VALUE
ADJ UT PR SPCD % %GOOD XFOB VALUE
PRICE ADJ UT PR LAND VALUE
18000.000 14400.00 64,368

UNITS UT PRICE ADJ UT PR LAND VALUE
4.470 AC 18000.000 14400.00 64,368

FIELD CK: FIELD CK: FIELD CK:
UD1 {UD3 FRONT DEPTH FIELD CK:
UD2 {UD4 BACK DT 1.00 1.00 .80 1.00

ADJUSTMENTS
A-1 0007 0002 0003

2008

Columbia County Property Appraiser

DB Last Updated: 8/5/2008

2008 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

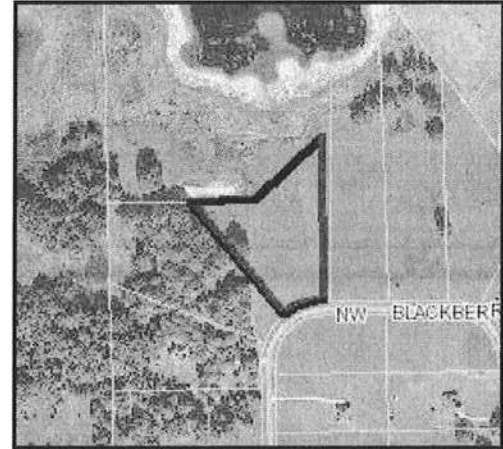
Parcel: 17-3S-16-02168-110

Search Result: 1 of 1

Owner & Property Info

Owner's Name	DEARDORFF JOHN A &		
Site Address	BLACKBERRY FARMS		
Mailing Address	KAREN L DEARDORFF 1707 SW 27TH PLACE OCALA, FL 34471		
Use Desc. (code)	VACANT (000000)		
Neighborhood	17316.00	Tax District	3
UD Codes	MKTA01	Market Area	01
Total Land Area	4.470 ACRES		
Description	LOT 10 BLACKBERRY FARMS S/D. WD 1036-1438, WD 1141-2036,		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	\$64,368.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$64,368.00

Just Value	\$64,368.00
Class Value	\$0.00
Assessed Value	\$64,368.00
Exempt Value	\$0.00
Total Taxable Value	\$64,368.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
1/28/2008	1141/2036	WD	V	Q		\$95,000.00
1/25/2005	1036/1438	WD	V	Q		\$119,900.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	4.470 AC	1.00/1.00/.80/1.00	\$14,400.00	\$64,368.00

Columbia County Property Appraiser

DB Last Updated: 8/5/2008

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

Example 4: Mansard Roof

$$\text{Front wall @ eave: } \frac{42.29 \text{ ft.}}{W} \times \frac{10.33 \text{ ft.}}{H} = \frac{436.86 \text{ ft.}^2}{a} @ 100\% = 436.86 \text{ ft.}^2$$

$$\text{Front mansard rise: } \frac{3.00 \text{ ft.}}{R} \times \frac{1}{2} \left(\frac{27.89 \text{ ft.}}{W1} + \frac{42.29 \text{ ft.}}{W2} \right) = \frac{105.27 \text{ ft.}^2}{b} @ 100\% = 105.27 \text{ ft.}^2$$

$$\text{Largest side wall: } \frac{27.64 \text{ ft.}}{W} \times \frac{10.33 \text{ ft.}}{H} = \frac{285.52 \text{ ft.}^2}{c} @ 50\% = 142.76 \text{ ft.}^2$$

$$\text{Largest side mansard rise: } \frac{3 \text{ ft.}}{R} \times \frac{1}{2} \left(\frac{17.04 \text{ ft.}}{W1} + \frac{27.64 \text{ ft.}}{W2} \right) = \frac{67.02 \text{ ft.}^2}{d} @ 50\% = 33.51 \text{ ft.}^2$$

$$\text{TOTAL} = 718.40 \text{ ft.}^2$$

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

or

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

$$\text{Side wall cable calculation: } \frac{285.52 \text{ ft.}^2}{c} + \frac{67.02 \text{ ft.}^2}{d} = \frac{352.54 \text{ ft.}^2}{e} @ 100\% = 352.54 \text{ ft.}^2$$

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

or

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

Example 5: Dome Roof

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

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

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

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

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

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

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:



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

I. Design Statement:

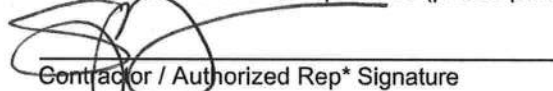
These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and are in compliance with the 2004 Florida Building Code Edition with 2006 Supplements, Chapter 20, ASM35 and The 2005 Aluminum Design Manual Part I-A & II-A; Exposure 'B' ☒ or 'C' ☐ or 'D' ☐; 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: 10/01/08
Contractor / Authorized Rep* Signature

RET-BD DEARDORFF 861 NW BLACKBERRY CIRCLE LAKE CITY
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:

$$\begin{array}{c} \text{Span} \\ \text{@ 120 MPH} \end{array} \downarrow \quad \begin{array}{c} \text{Required Converted} \\ \text{Span / Height} \end{array} \downarrow$$

$$0.00 (b \text{ or } d) \times 1.00 (b \text{ or } d) \times 1.00 (b \text{ or } d) = \underline{\hspace{2cm}}$$

$$\begin{array}{c} \text{Wind Zone Multiplier} \\ \text{(see page 1ii)} \end{array} \uparrow \quad \begin{array}{c} \text{Exposure Multiplier} \\ \text{(see page 1ii)} \end{array} \uparrow$$

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:

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

	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"/>
IV. Highlight details from the Aluminum Structures Design Manual:	Yes	No
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: $\frac{\underline{\hspace{1cm}} \text{ ft.} \times \underline{\hspace{1cm}} \text{ ft.}}{W \quad H} = \frac{0.00 \text{ ft.}^2}{a} @ 100\% = \underline{\hspace{1cm}} \text{ ft.}^2$

Largest side wall: $\frac{\underline{\hspace{1cm}} \text{ ft.} \times \underline{\hspace{1cm}} \text{ ft.}}{W \quad H} = \frac{0.00 \text{ ft.}^2}{b} @ 50\% = \underline{\hspace{1cm}} \text{ ft.}^2$

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

or

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

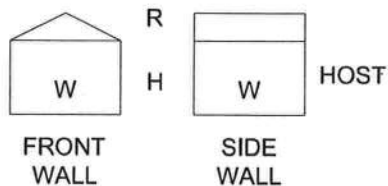
Side wall cable calculation: $\frac{0.00 \text{ ft.}^2}{b} @ 100\% = \underline{\hspace{1cm}} \text{ ft.}^2$

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

or

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

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



Example 2: Gable Roof

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

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

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

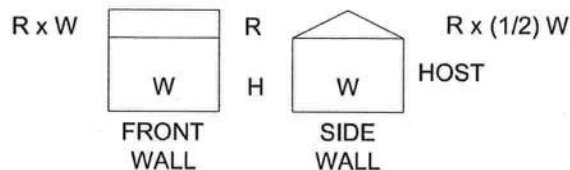
Largest side gable rise: $\frac{\text{ft.}}{R} \times \frac{1}{2} \left(\frac{\text{ft.}}{W} \right) = \frac{0.00 \text{ ft.}^2}{d} @ 50\% = \underline{\hspace{2cm}} 0.00 \text{ ft.}^2$

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

Total area / (233 ft.² / cable for 3/32") = $\underline{\hspace{2cm}} 0$ cable pairs
or
Total area / (445 ft.² / cable for 1/8") = $\underline{\hspace{2cm}} 0$ cable pairs

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

Side wall area / (233 ft.² / cable for 3/32") = $\underline{\hspace{2cm}} 0$ cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = $\underline{\hspace{2cm}} 0$ cable(s)



Example 3: Transverse Gable Roof

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

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

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

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

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

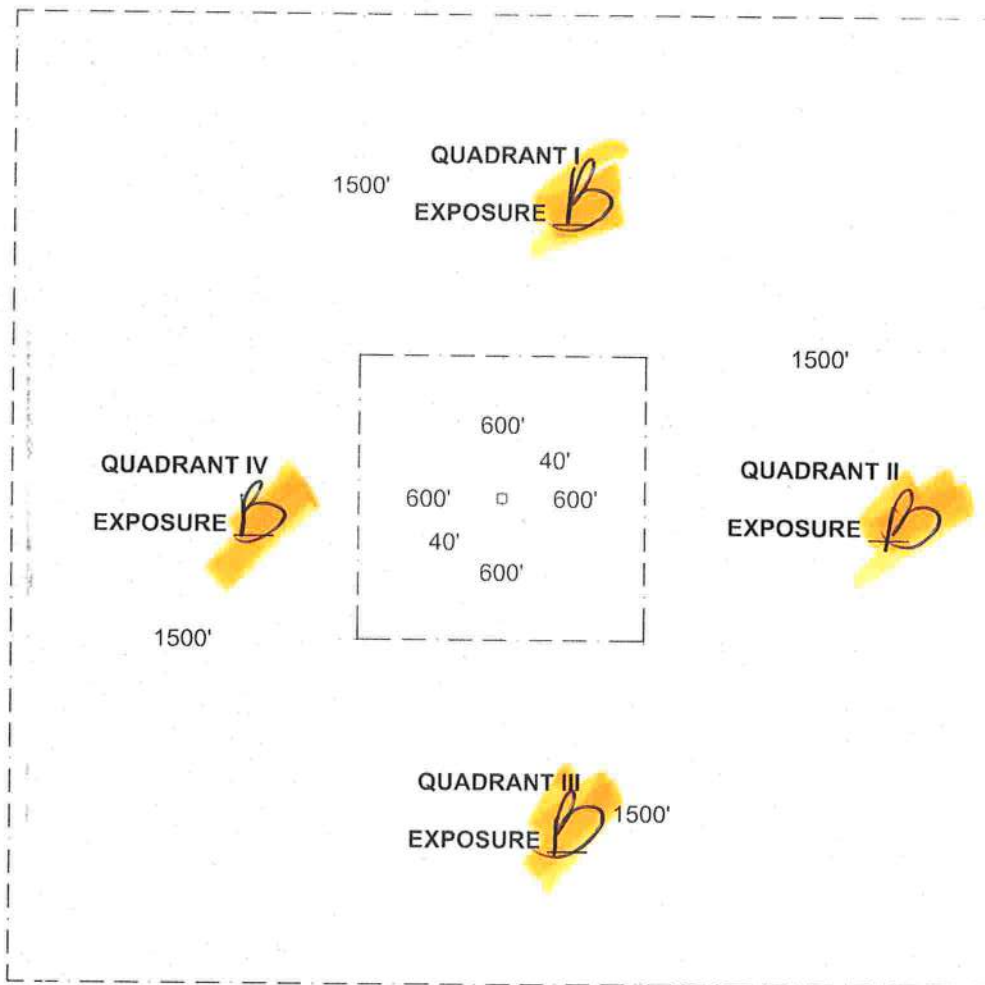
Total area / (233 ft.² / cable for 3/32") = $\underline{\hspace{2cm}} 0$ cable pairs
or
Total area / (445 ft.² / cable for 1/8") = $\underline{\hspace{2cm}} 0$ cable pairs

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

Side wall area / (233 ft.² / cable for 3/32") = $\underline{\hspace{2cm}} 0$ cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = $\underline{\hspace{2cm}} 0$ cable(s)

SITE EXPOSURE EVALUATION FORM

SET 1



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 W. Wad

SIGNATURE: [Signature]

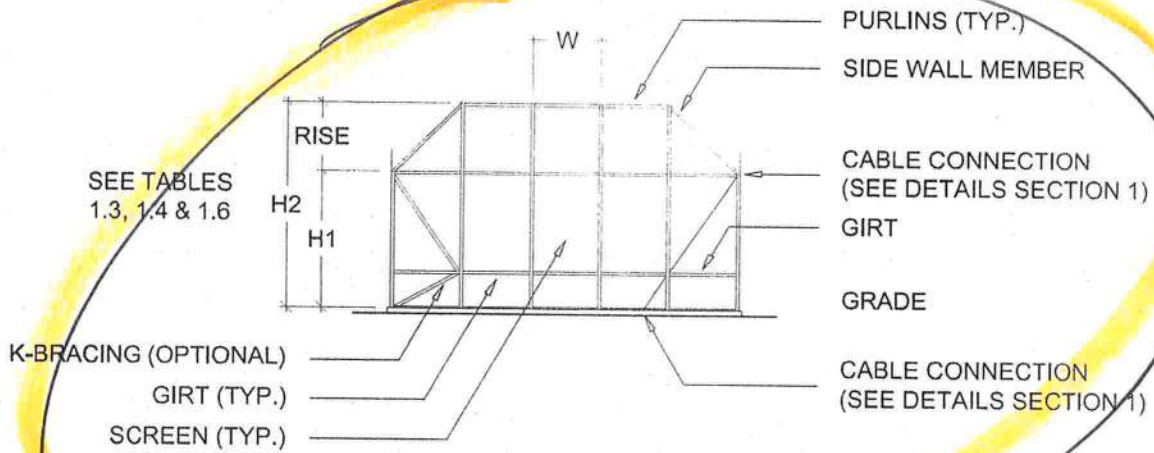
LICENSE #: CGC047465

DATE: 10/1/08



SECTION 1

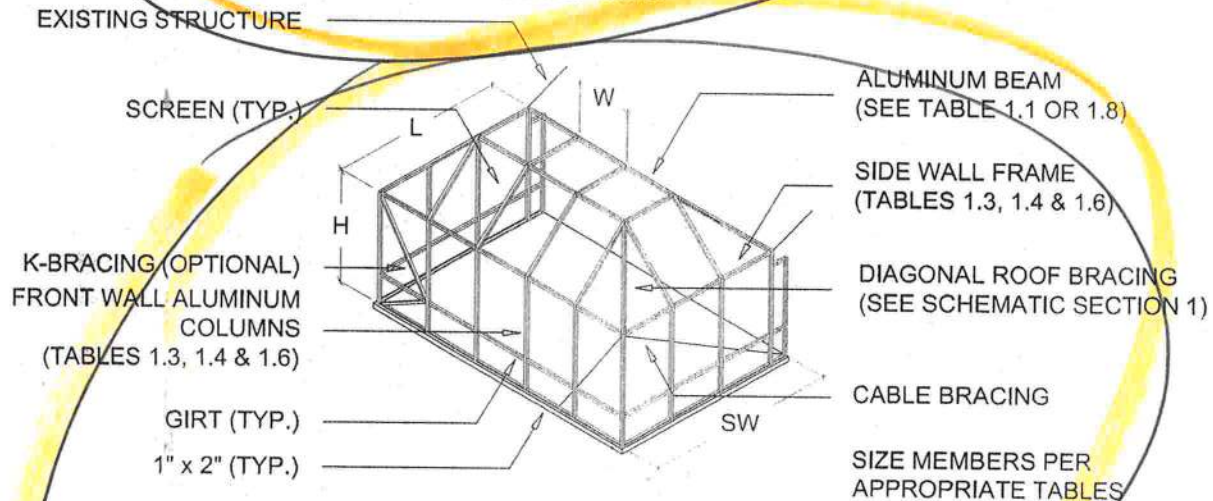
SCREENED ENCLOSURES



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.

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SCREENED ENCLOSURES

SECTION

2" x 9" x 0.072" x 0.224" BEAM
SHOWN

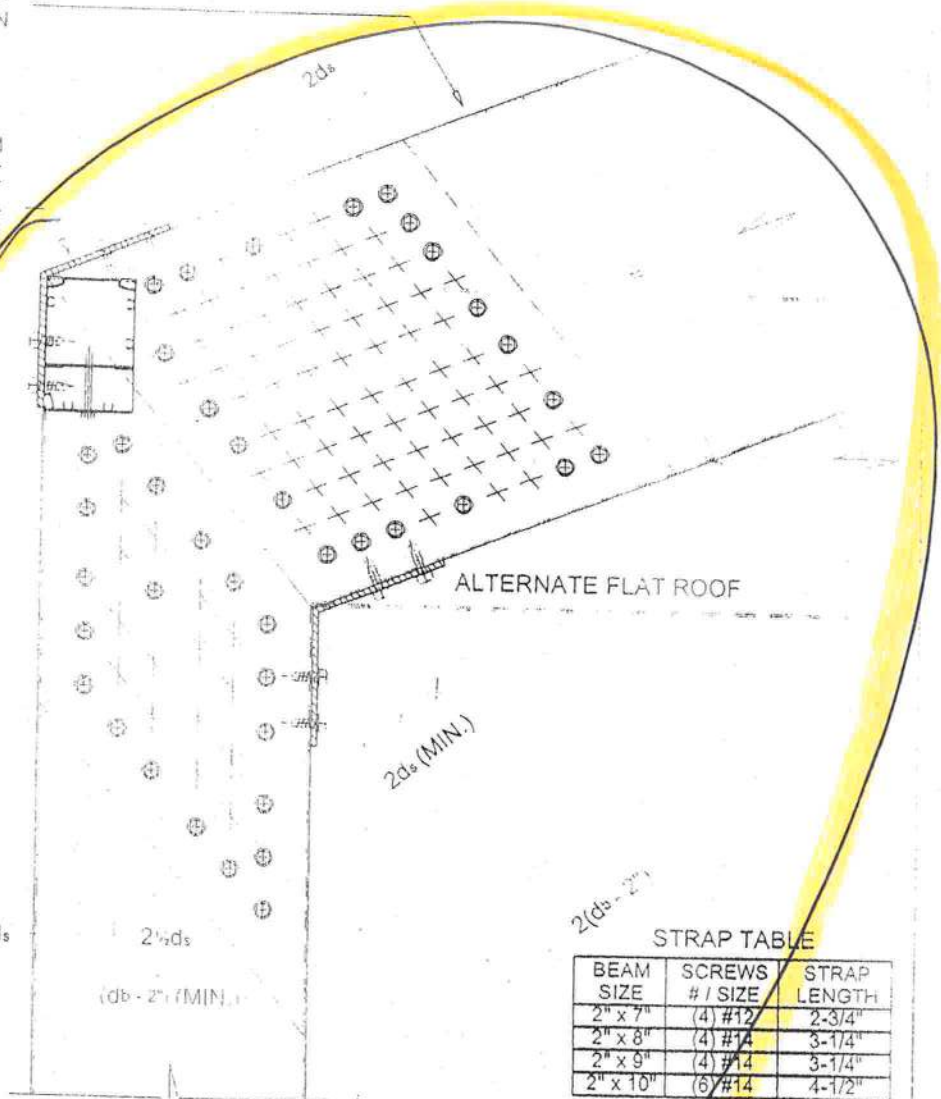
1-3/4" STRAP MADE FROM
REQUIRED GUSSET PLATE
MATERIAL
(SEE TABLE FOR LENGTH AND
OF SCREWS REQUIRED)

WHEN FASTENING 2" x 2"
THROUGH GUSSET PLATE
USE #10 x 2" (3) EACH MIN.

ALL GUSSET PLATES SHALL
BE A MINIMUM OF 5052 H-32
ALLOY OR HAVE A MINIMUM
YIELD STRENGTH OF 23 ksi

db = DEPTH OF BEAM
ds = DIAMETER OF SCREW

2" x 6" x 0.050" x 0.120"
UPRIGHT SHOWN



STRAP TABLE

BEAM SIZE	SCREWS # / SIZE	STRAP LENGTH
2" x 7"	(4) #12	2-3/4"
2" x 8"	(4) #14	3-1/4"
2" x 9"	(4) #14	3-1/4"
2" x 10"	(6) #14	4-1/2"

* ALL SCREWS 3/4" LONG

NOTES:

1. FILL OUTER SCREW POSITIONS FIRST UNTIL REQUIRED NUMBER OF SCREWS IS ACHIEVED.
2. SEE TABLE 1.6 FOR GUSSET SIZE, SCREW SIZES, AND NUMBER.
3. GUSSET PLATES ARE REQUIRED ON ALL BEAMS 2" x 7" AND LARGER.
4. SCREW PATTERN LAYOUT W/ SPACING BETWEEN SCREWS GREATER THAN MINIMUM IS ALLOWED SO THAT EQUAL SPACING IS ACHIEVED.

BEAM SPLICE CUT, GUSSET PLATE CONNECTION & GUSSET SCREW PATTERN BEAM TO POST MOMENT CONNECTION DETAIL

SCALE: 3" = 1'-0"

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PAGE

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SECTION 1

SCREENED ENCLOSURES

BEAM NOTCHED AROUND
CONTINUOUS 2" x 2" OR (4)
SPLINE GROOVE 2" x 3"

2" x 6" BEAM

ALTERNATE FLAT ROOF

2" x 3" UPRIGHT

MINIMUM POST SIZES
REQUIRED FOR EACH BEAM
SIZE (SEE TABLE 1.6)

SELECT FASTENER SIZE,
NUMBER AND PATTERN
(SEE TABLE 1.6 & 9.5A OR 9.5B)

2" x 6" BEAM TO 2" x 3" UPRIGHT CONNECTION DETAIL (FULL LAP)

SCALE: 3" = 1'-0"

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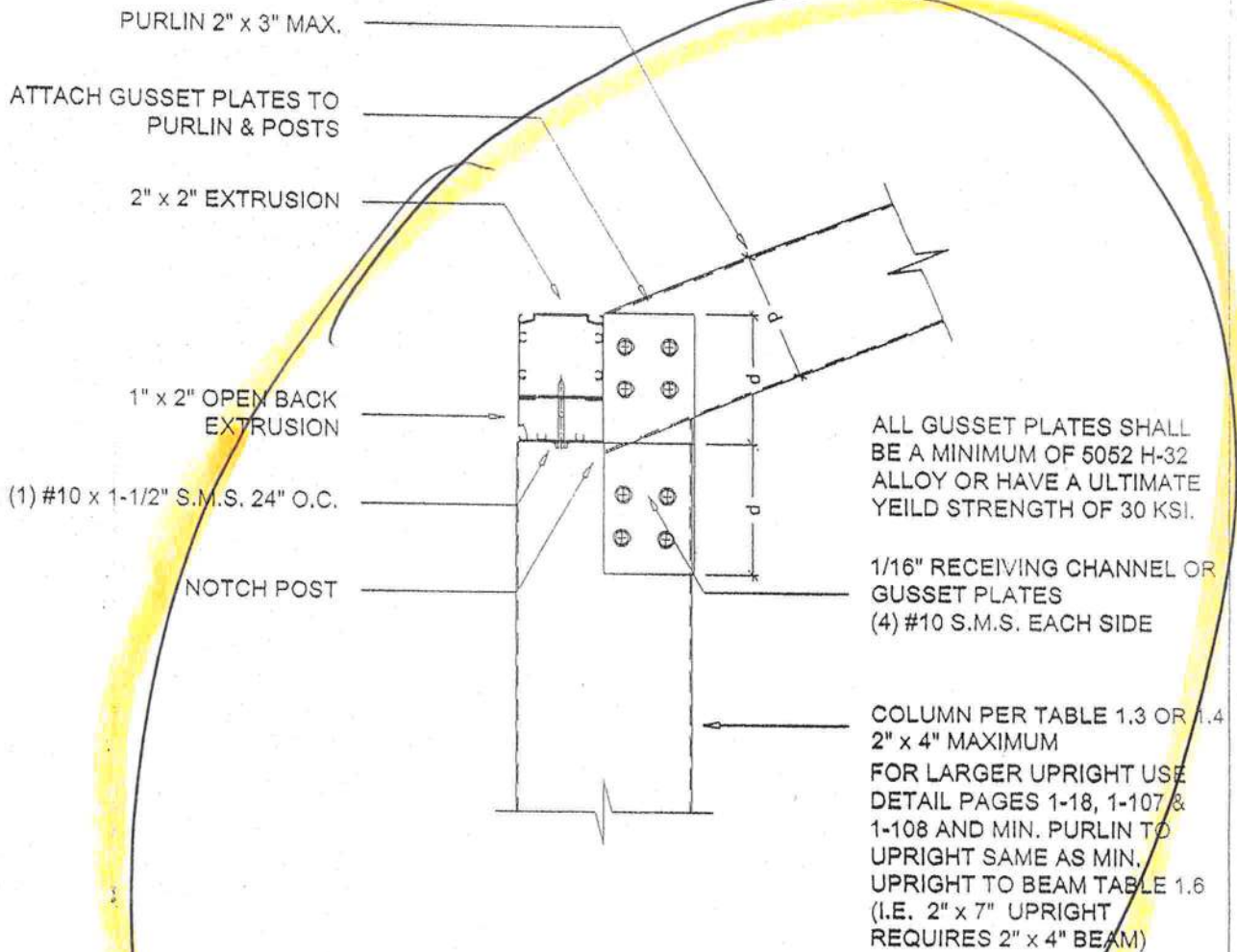
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SIDE WALL TO PURLIN DETAIL

SCALE: 3" = 1'-0"

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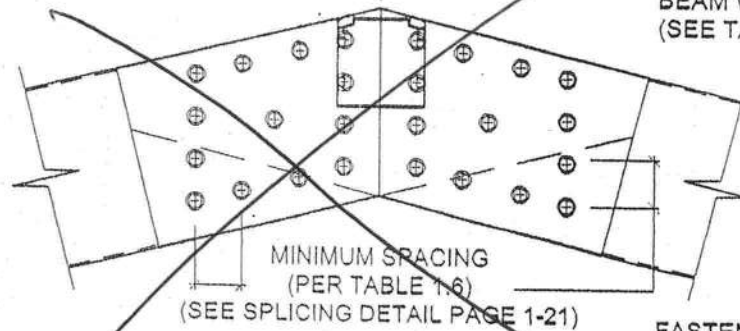
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2" x 2" PURLINS ATTACHED
TO BEAM W/ MIN.
(3) #10 x 1-1/2" S.M.S.

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)

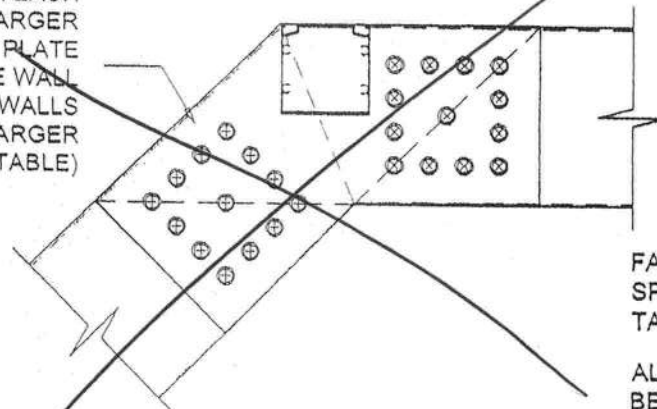


TYPICAL SIDE PLATE CONNECTION DETAIL

SCALE: 3" = 1'-0"

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

FASTENER SIZE, NUMBER AND
SPACING PER PAGE 1-21 (SEE
TABLE 1.6)



FASTENER SIZE, NUMBER AND
SPACING PER PAGE 1-21 (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

TYPICAL SIDE PLATE CONNECTION DETAIL - MANSARD ROOF

SCALE: 3" = 1'-0"

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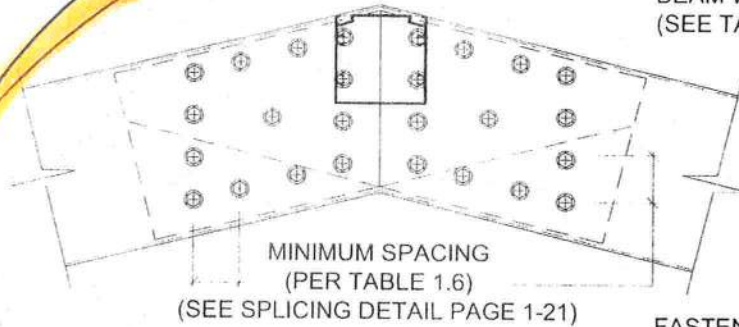
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SECTION 1

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)

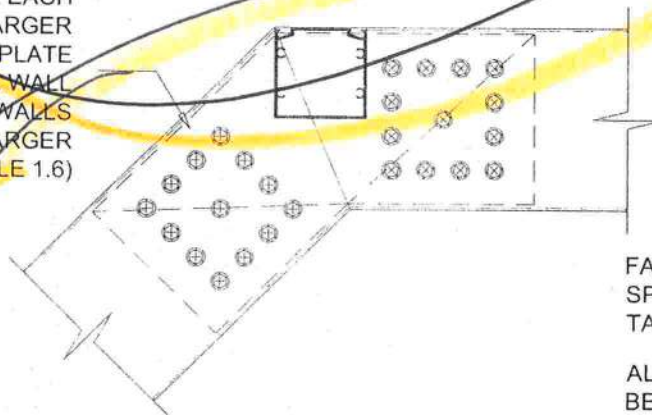


FASTENER SIZE, NUMBER AND
SPACING PER PAGE 1-20(SEE
TABLE 1.6)

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"

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SCREENED ENCLOSURES

SECTION 1

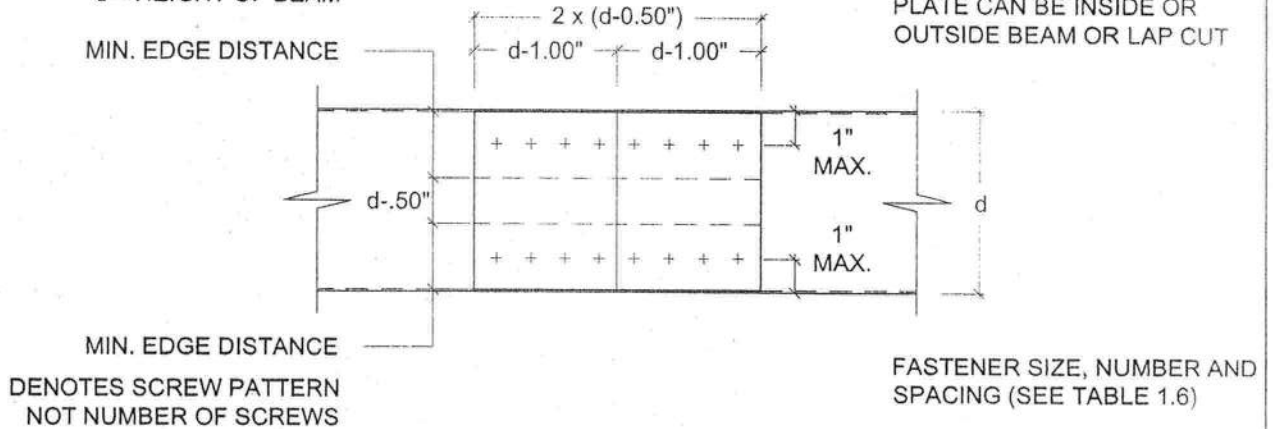
BEAM SPLICE SHALL BE MIN.
BEAM HEIGHT MINUS 1/2" AND
 $2 \times (d - .50")$ LENGTH

d = HEIGHT OF BEAM

MIN. EDGE DISTANCE

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

PLATE CAN BE INSIDE OR
OUTSIDE BEAM OR LAP CUT



Screw Size	d_s (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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1/4" x 2" LAG SCREWS @ 24"
O.C. OR #10 x 2" SCREWS @
12" O.C. MIN. AND (2) @ EACH
STRAP
OPTIONAL 1" x 2" OR 2" x 2"
FOR SCREEN

SELF-MATING
BEAM
(SIZE VARIES)

SUPER OR
EXTRUDED
GUTTER

2" x ___" x 0.050" STRAP
@ EACH BEAM CONNECTION
AND @ 1/2 BEAM SPACING W/
(2) #8 x 1/2" S.M.S. PER STRAP

MAX. DISTANCE FROM FASCIA
TO HOST STRUCTURE WALL
(SEE TABLE 1.11)

ANGLE, INTERIOR OR
EXTERIOR RECEIVING
CHANNEL (SEE SECTION 9)

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

SCALE: 3" = 1'-0"

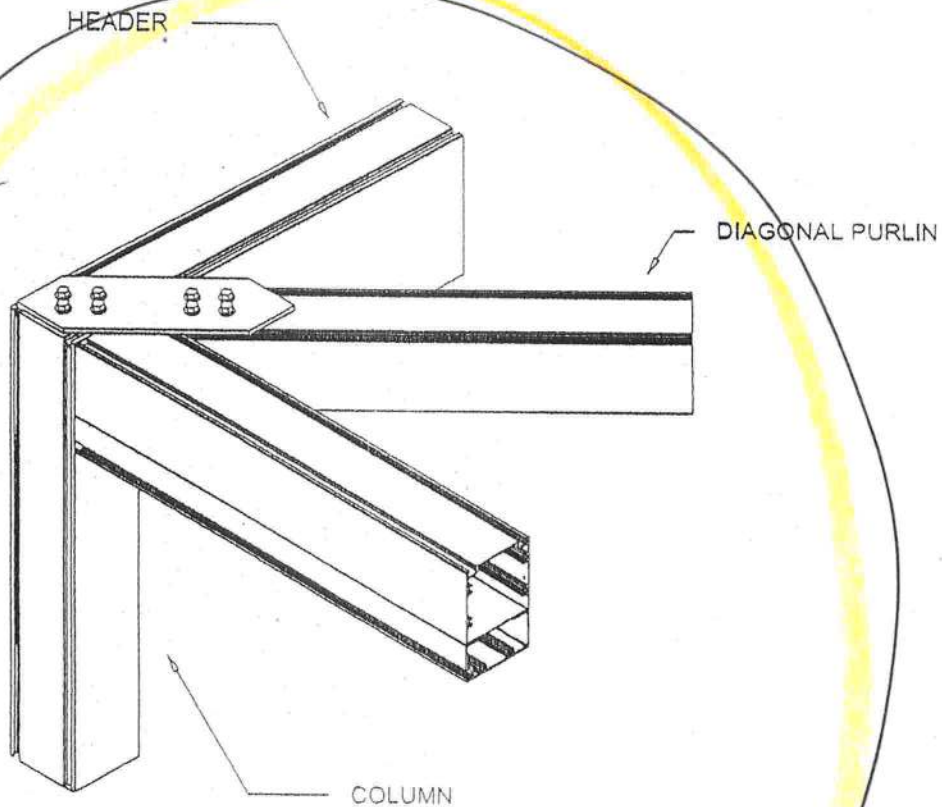
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**WIND BRACE CONNECTION DETAIL**

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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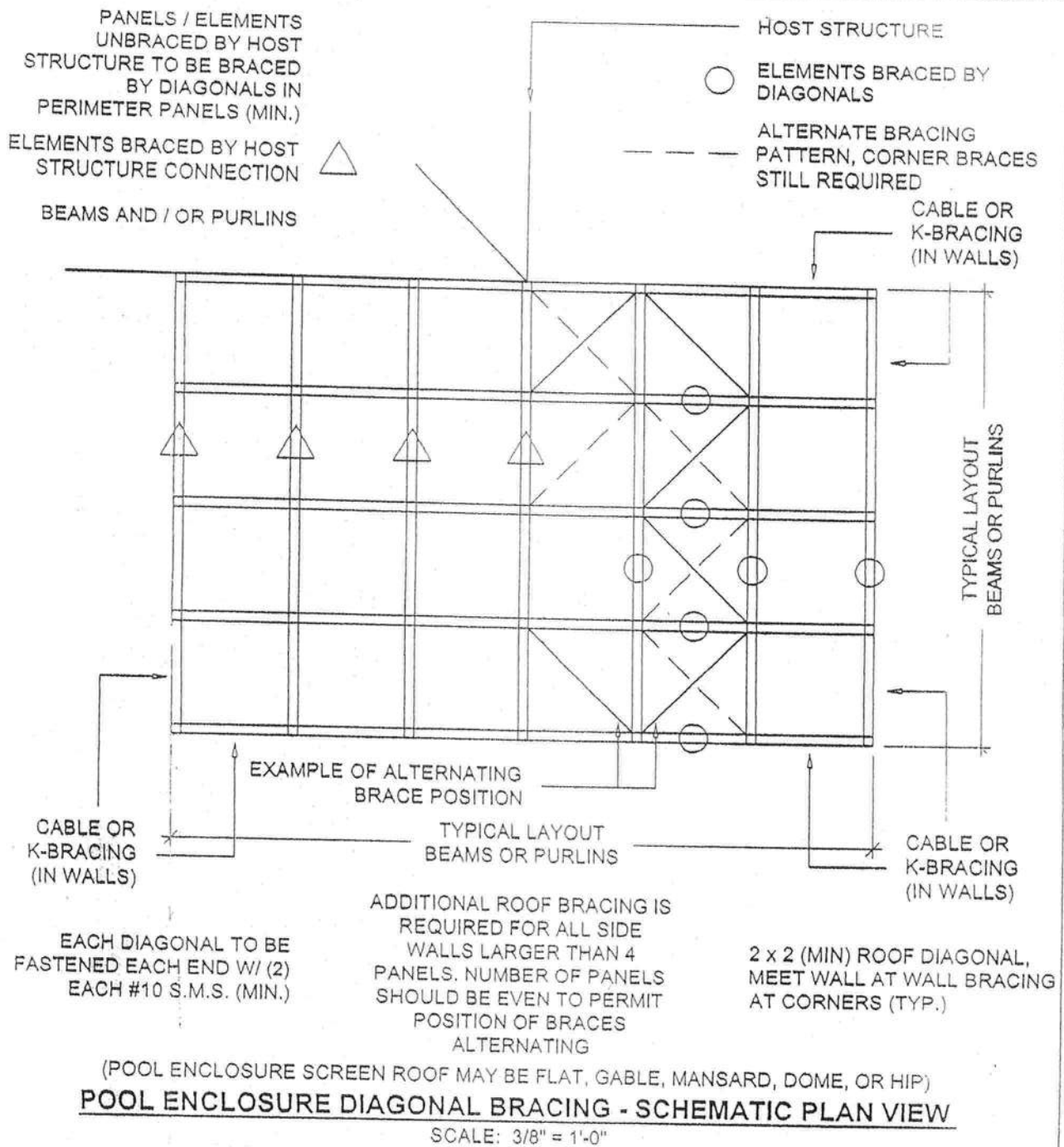
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SECTION 1

SCREENED ENCLOSURES



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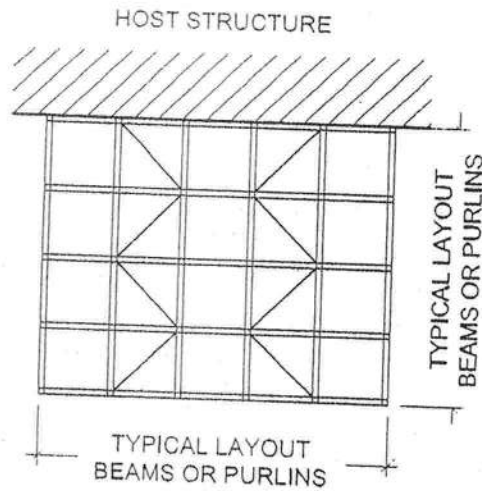
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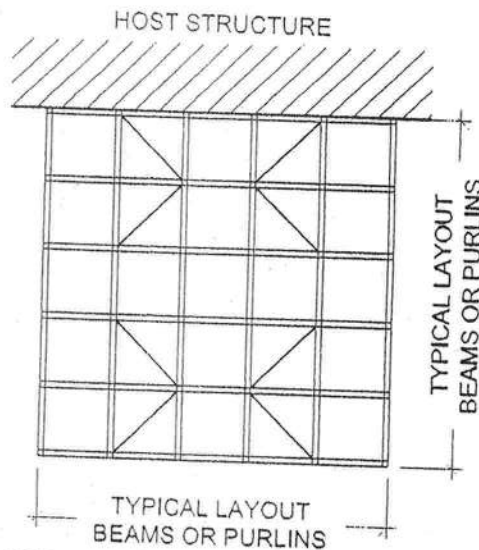
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WIND BRACING PATTERN
TYPICAL FOR EVEN NUMBER OF SIDE PANELS OVER 4
 SCALE: 3/16" = 1'-0"

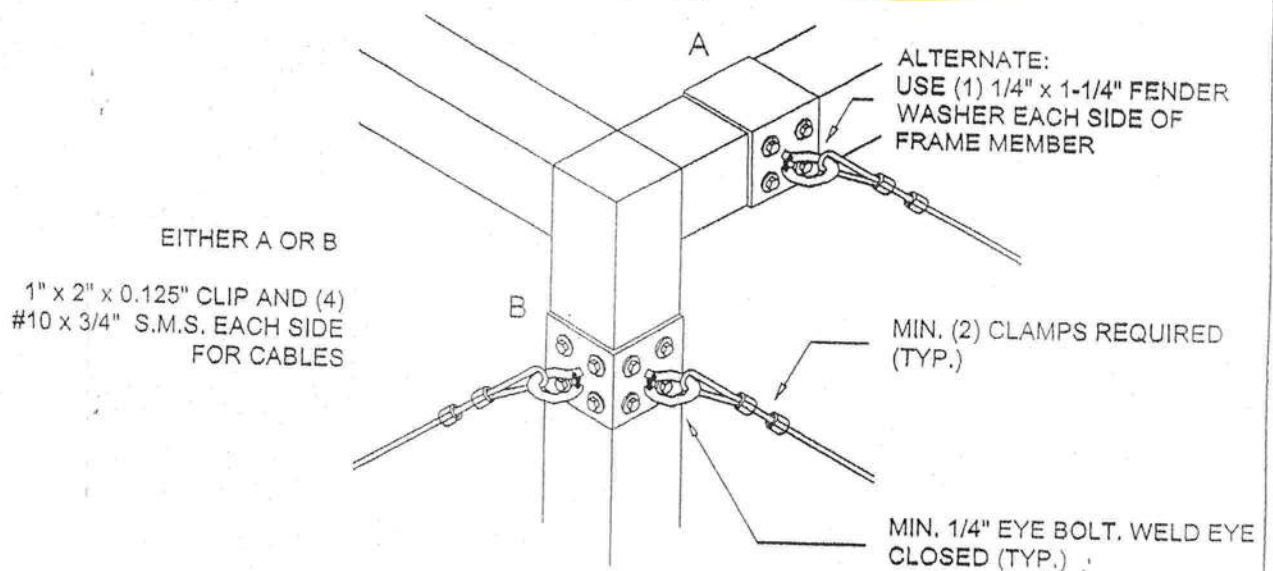
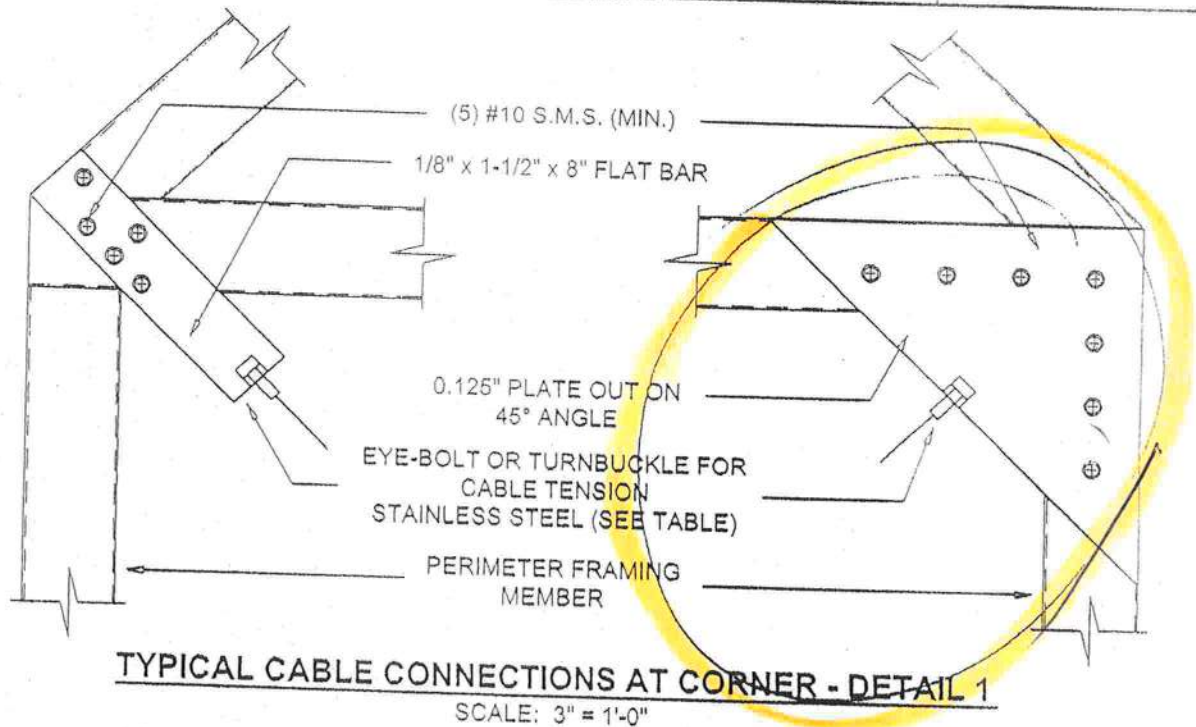


WIND BRACING PATTERN
TYPICAL FOR ODD NUMBER OF SIDE PANELS OVER 4
 SCALE: 3/16" = 1'-0"

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SCREENED ENCLOSURES

SECTION 1



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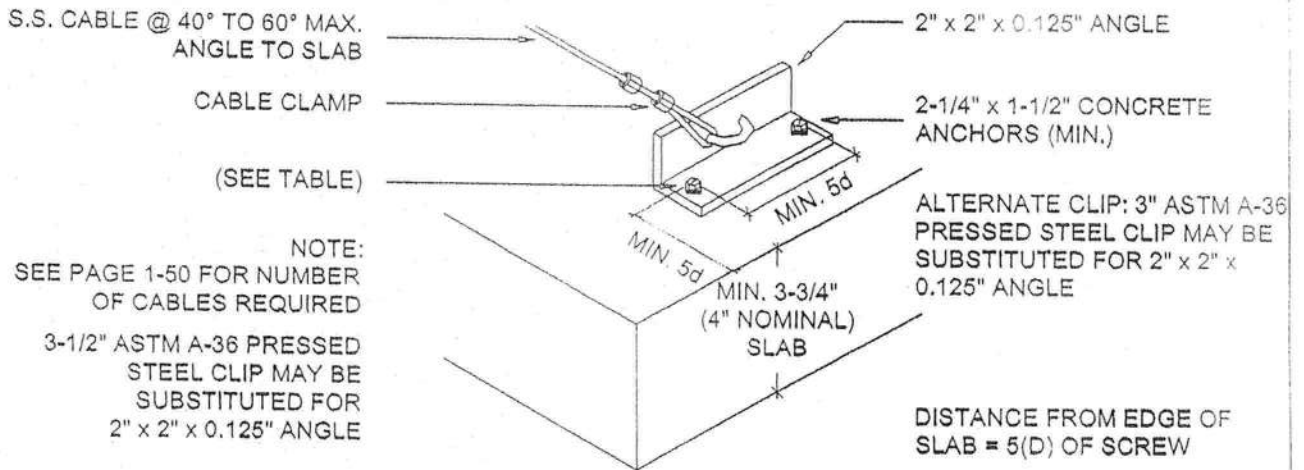
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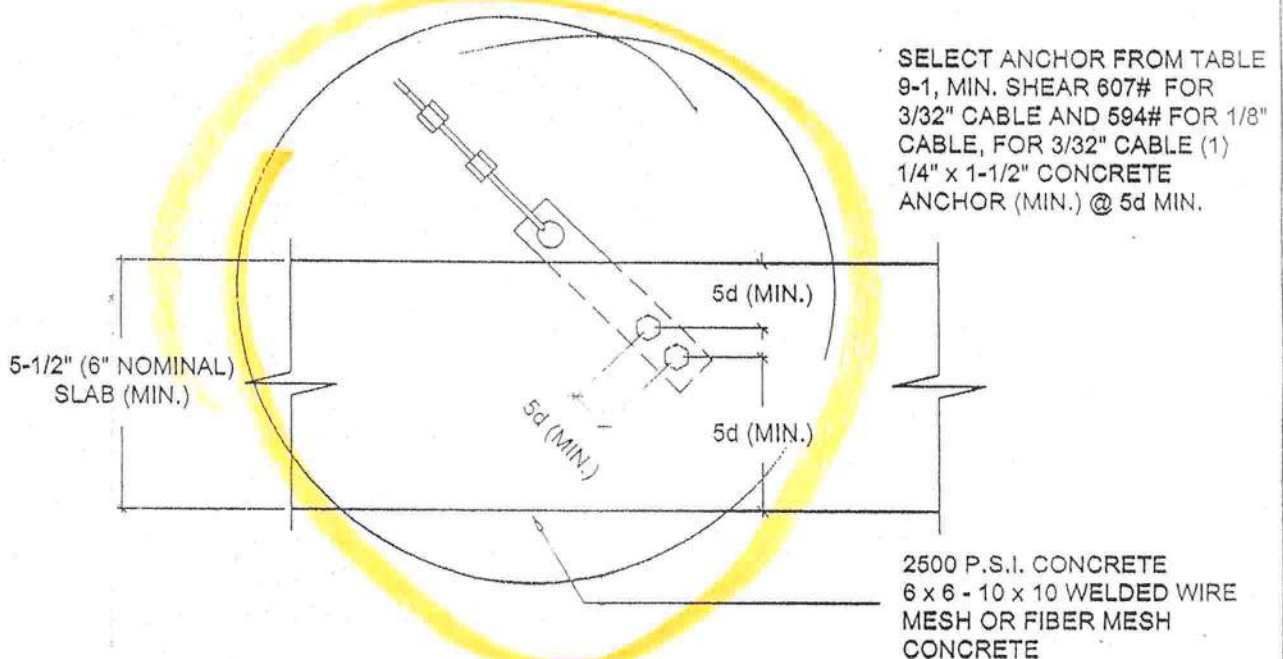
SCREENED ENCLOSURES

SECTION 1



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 3" = 1'-0"



ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2C

SCALE: 3" = 1'-0"

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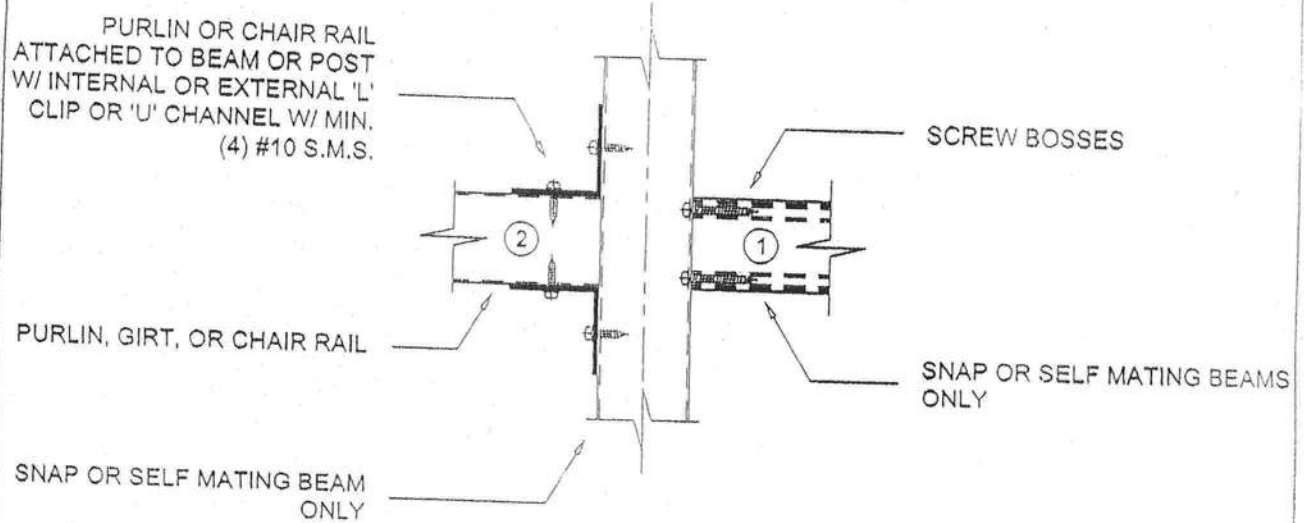
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SCREENED ENCLOSURES

SECTION 1



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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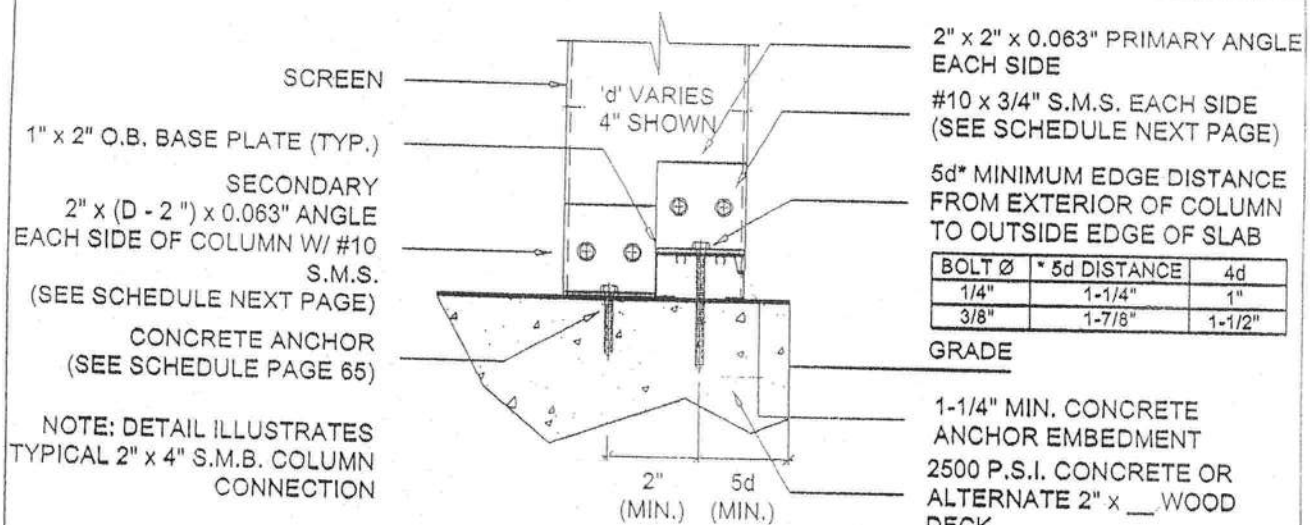
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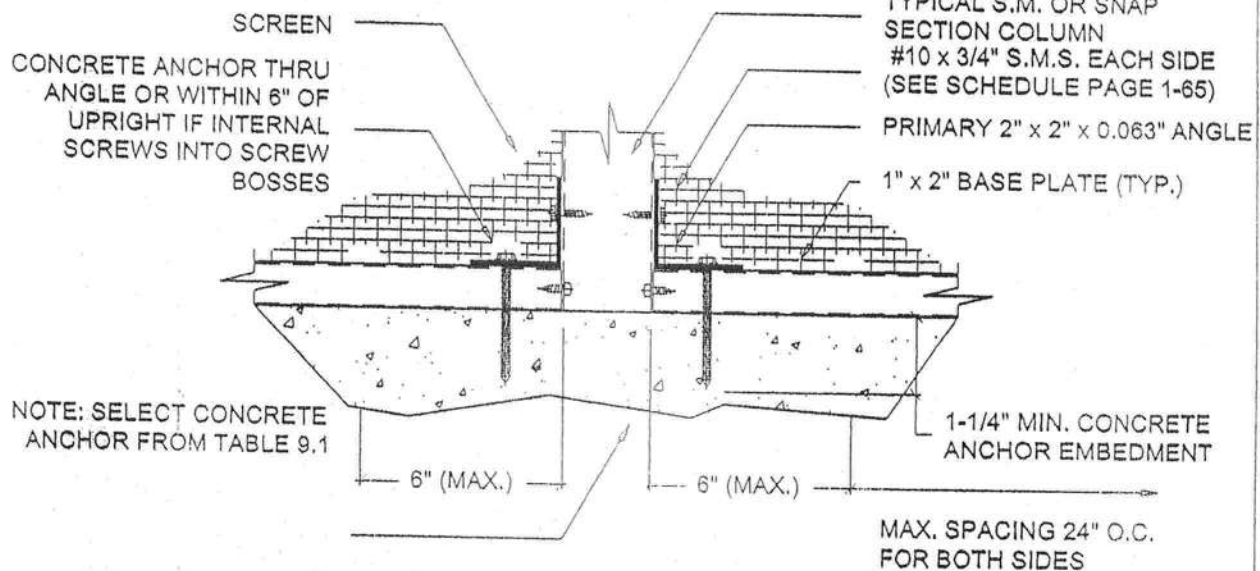
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SECTION 1

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.

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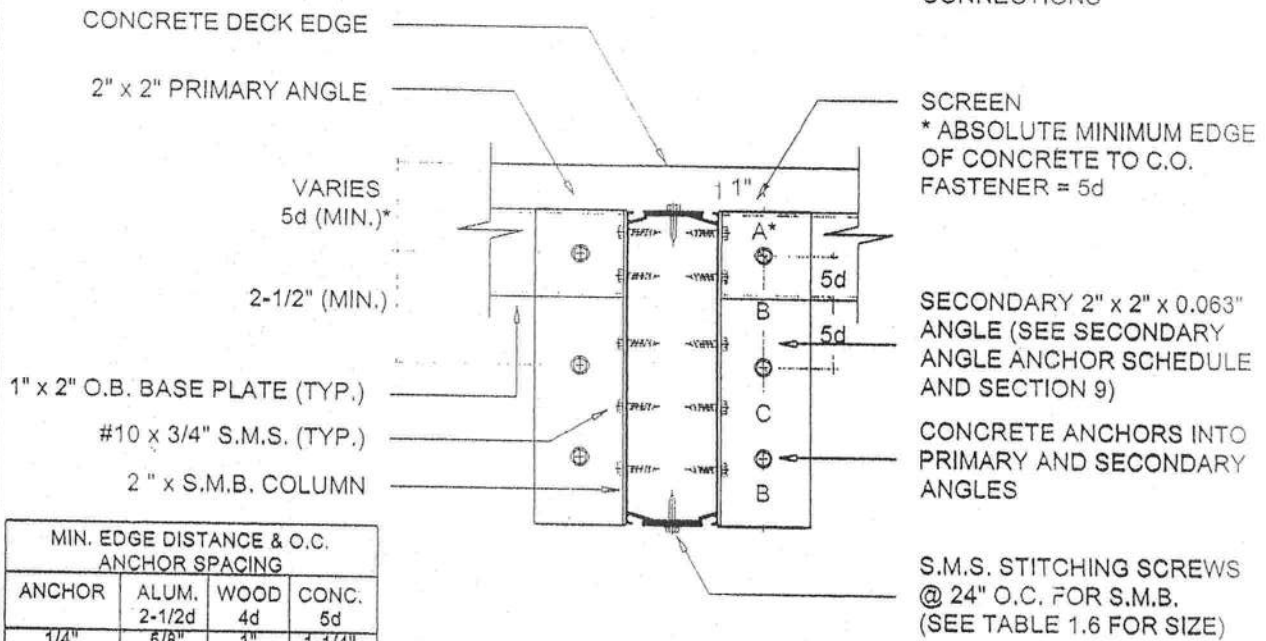
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SCREENED ENCLOSURES

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.	WOOD	CONC.
1/4"	2-1/2d	4d	5d
5/16"	5/8"	1"	1-1/4"
3/8"	25/32"	1-1/4"	1-9/16"
1/2"	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"	#	"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	8	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:

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 = $2" / \text{dia. of } 0.25" = 8d$

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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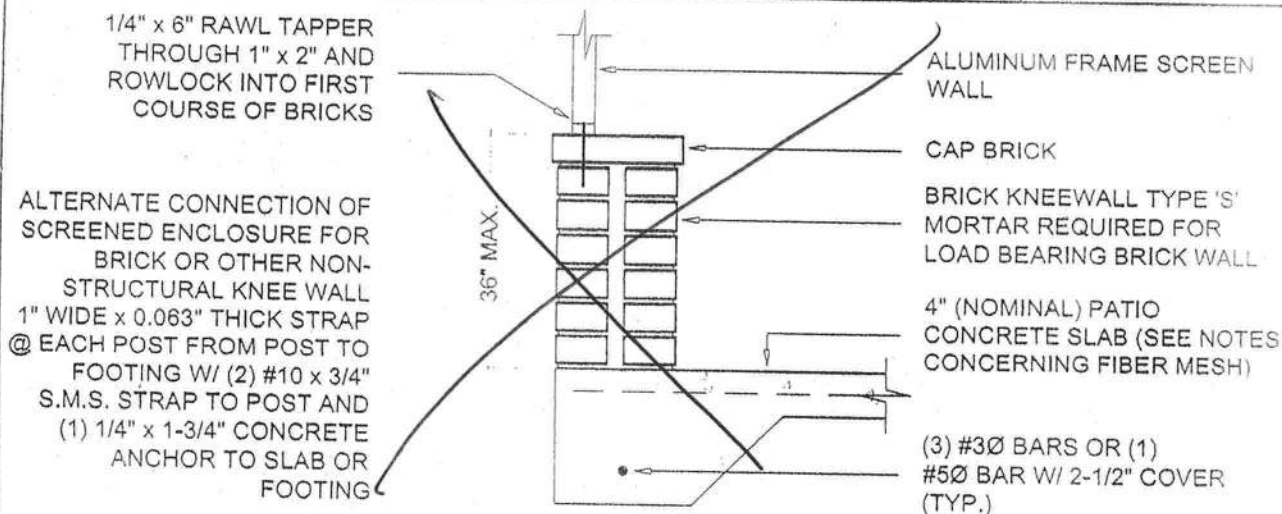
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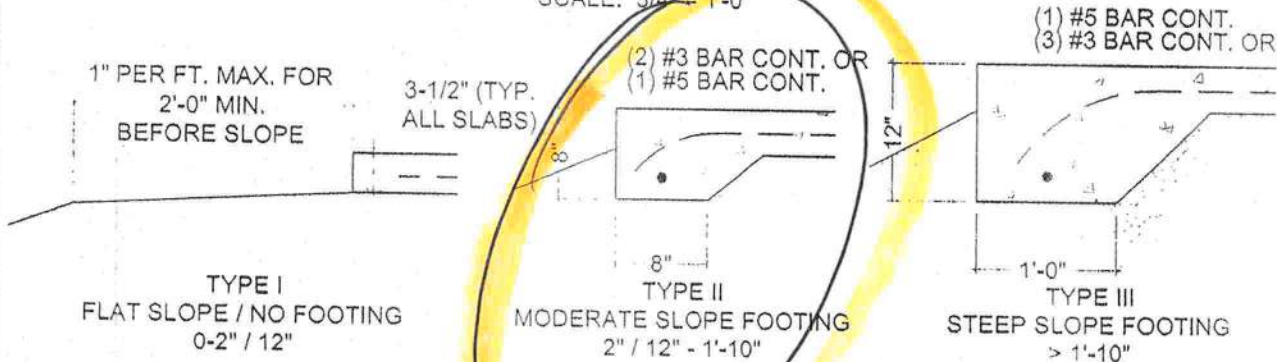
SCREENED ENCLOSURES

SECTION 1



BRICK KNEEWALL AND FOUNDATION FOR SCREEN WALLS

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



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"

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Table 1.1A 120 Moment Connection
Allowable Spans for Primary Screen Roof Frame Members
Aluminum Alloy 6063 T-6

for Areas in 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"
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"
2" x 2" x 0.090"	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"
2" x 3" x 0.045"	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5"	Pb	20'-4"

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"	12'-3"	Pb	12'-3"	Pb	12'-3"	Pb	12'-3"
2" x 5" x 0.050 x 0.100"	18'-5"	Pb	18'-5"	Pb	18'-5"	Pb	18'-5"
2" x 6" x 0.050 x 0.120"	23'-0"	Pb	23'-0"	Pb	23'-0"	Pb	22'-5"
2" x 7" x 0.055 x 0.120"	27'-0"	Pb	27'-0"	Pb	27'-0"	Pb	26'-2"
2" x 8" x 0.072 x 0.224"	48'-3"	Ud	43'-10"	Ud	40'-8"	Ud	38'-4"
2" x 9" x 0.072 x 0.224"	52'-11"	Ud	48'-1"	Ud	44'-8"	Ud	42'-0"
2" x 9" x 0.082 x 0.310"	56'-10"	Ud	51'-8"	Ud	47'-11"	Ud	45'-1"
2" x 10" x 0.092 x 0.369"	66'-0"	Ud	59'-11"	Ud	55'-8"	Ud	52'-5"

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"
2" x 3" x 0.045"	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"
2" x 4" x 0.045"	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"
2" x 6" x 0.062"	22'-2"	Pd	22'-2"	Pd	22'-2"	Pd	22'-2"
2" x 7" x 0.062"	26'-8"	Pd	26'-8"	Pd	26'-8"	Pd	26'-8"

Note:

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
 2. The structures designed using this section shall be limited to a maximum combined span and upright height of 50' and a maximum upright height of 16'. Structures larger than these limits shall have site specific engineering.
 3. Span is measured from center of beam and upright connection to fascia or wall connection.
 4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
 5. Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
 6. Spans may be interpolated.
 7. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.
- Example: Max. 'L' for 2" x 4" x 0.050" hollow section with 'W' = 5'-0" = 9'-1"

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SECTION 1

SCREENED ENCLOSURES

Table 1.3A 110 Moment Connection

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"	8'-4"	b	7'-2"	b	6'-4"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
2" x 2" x 0.050"	9'-2"	b	7'-11"	b	6'-11"	b	6'-4"	b	5'-9"	b	5'-4"	b	4'-11"	b
2" x 2" x 0.090"	11'-5"	b	9'-10"	b	8'-9"	b	7'-11"	b	7'-4"	b	6'-10"	b	6'-5"	b
2" x 3" x 0.045"	11'-2"	d	9'-9"	b	8'-8"	b	7'-10"	b	7'-2"	b	6'-8"	b	6'-2"	b
2" x 4" x 0.050"	12'-6"	b	10'-9"	b	9'-6"	b	8'-7"	b	7'-11"	b	7'-4"	b	6'-10"	b
2" x 5" x 0.062"	19'-3"	b	16'-7"	b	14'-9"	b	13'-5"	b	12'-4"	b	11'-6"	b	10'-9"	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"	15'-1"	b	13'-0"	b	11'-7"	b	10'-6"	b	9'-8"	b	8'-11"	b	8'-5"	b
2" x 5" x 0.050" x 0.100"	18'-8"	b	16'-1"	b	14'-4"	b	12'-11"	b	11'-11"	b	11'-2"	b	10'-5"	b
2" x 6" x 0.050" x 0.120"	20'-11"	b	18'-0"	b	16'-1"	b	14'-7"	b	13'-5"	b	12'-6"	b	11'-9"	b
2" x 7" x 0.055" x 0.120"	22'-8"	b	19'-7"	b	17'-5"	b	15'-10"	b	14'-7"	b	13'-7"	b	12'-10"	b
2" x 8" x 0.072" x 0.224"	32'-7"	d	29'-3"	b	26'-2"	b	23'-10"	b	22'-0"	b	20'-7"	b	19'-4"	b
2" x 9" x 0.072" x 0.224"	35'-7"	b	30'-9"	b	27'-5"	b	25'-0"	b	23'-1"	b	21'-7"	b	20'-4"	b
2" x 9" x 0.082" x 0.310"	38'-4"	d	34'-10"	d	32'-1"	b	29'-3"	b	27'-1"	b	25'-4"	b	23'-10"	b
2" x 10" x 0.092" x 0.369"	44'-7"	d	40'-6"	d	37'-7"	d	35'-4"	d	32'-11"	b	30'-10"	b	29'-0"	b

Snap Sections	Tributary Load Width 'W' = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 2" x 0.044"	8'-10"	d	7'-8"	b	6'-9"	b	6'-0"	b	5'-5"	b	4'-11"	b	4'-7"	b
2" x 3" x 0.045"	11'-9"	b	9'-11"	b	8'-9"	b	7'-9"	b	7'-0"	b	6'-5"	b	5'-10"	b
2" x 4" x 0.045"	13'-9"	b	11'-8"	b	10'-3"	b	9'-1"	b	8'-3"	b	7'-6"	b	6'-11"	b
2" x 6" x 0.082"	24'-5"	d	22'-2"	d	19'-10"	b	17'-11"	b	16'-6"	b	15'-4"	b	14'-4"	b
2" x 7" x 0.062"	27'-7"	d	24'-7"	b	21'-10"	b	19'-10"	b	18'-3"	b	16'-11"	b	15'-10"	b

Note:

Note:

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Using screen panel width 'W' select upright length 'H'.
3. Above heights do not include length of knee brace. Add vertical distance from upright to center of brace to beam connection to the above heights for total beam heights.
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 height.
7. Maximum beam size for 2" x 5" is a 2" x 7" x 0.055" x 0.120"
8. heights may be interpolated.
9. To convert heights to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

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SECTION 1

SCREENED ENCLOSURES

Table 1.6A Moment Connection
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 4 SMB	2" x 2" x 0.044"	Moment Connection	8	6	4	#8
2 x 5 SMB	2 x 4 SMB	2" x 2" x 0.044"	Moment Connection	9	6	4	#8
2 x 6 SMB	2 x 4 SMB	2" x 2" x 0.044"	Moment Connection	10	8	6	#10
2 x 7 SMB	2 x 5 SMB	2" x 2" x 0.044"	Moment Connection	14	12	10	#12
2 x 8 SMB	2 x 6 SMB	2" x 3" x 0.044"	Moment Connection	16	14	12	#14
2 x 9 SMB	2 x 6 SMB	2" x 3" x 0.045"	Moment Connection	18	16	14	#14
2 x 9 SMB **	2 x 7 SMB	2" x 4" x 0.050"	Moment Connection	20	18	16	#14
2 x 10 SMB	2 x 8 SMB	2" x 5" x 0.050"	Moment Connection	20	18	16	#14

Screw Size	Minimum Distance and Spacing of Screws		Gusset Plate Thickness	
	Edge To Center	Center To Center	Beam Size	Thickness
#8	5/16"	5/8"	2" x 7" x 0.055" x 0.120"	0.063"
#10	3/8"	3/4"	2" x 8" x 0.072" x 0.224"	0.125"
#12	1/2"	1"	2" x 9" x 0.072" x 0.224"	0.125"
#14 or 1/4"	3/4"	1-1/2"	2" x 9" x 0.082" x 0.306"	0.190"
5/16"	7/8"	1-3/4"	2" x 10" x 0.092" x 0.369"	0.250"
3/8"	1"	2"		

* Refers to each side of the connection of the beam and upright and each side of splice connection.
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.

** 0.082" wall thickness, 0.310" flange thickness

Note:

1. Connection of 2" x 6" to 2" x 3" shall use a full lap cut or 1/16" gusset plate.
2. 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. All beam to upright connections for 2" x 7" beams or larger shall have an internal gusset plate except when a knee brace is used at the connection. Gusset plates are required for mansard, gabled and all spliced connections.
8. For gusset plate connections 2" x 9" beams or larger use 3/4" long screws.
9. 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.
10. 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. & 2" x 6" x 0.050 x 0.120" s.m.b. upright requires a 2" x 3" x 0.045" girt / chair rail.)

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Table 1.9.2A Moment Connection
Allowable Spans for Secondary Screen Roof Frame Members

Aluminum Alloy 6063 T-6

For 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

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	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
2" x 2" x 0.090"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-3"	Ud	6'-11"	Ud	6'-9"	Ud
3" x 2" x 0.045"	5'-8"	Pb	5'-8"	Pb	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'-6"	Ud	7'-4"	Ud	7'-1"	Ud
2" x 3" x 0.045"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-3"	Ud	7'-0"	Ud	6'-10"	Ud
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	8'-10"	Ub	8'-5"	Ub
2" x 5" x 0.062"	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	13'-11"	Ud	13'-5"	Ub	12'-11"	Ub

Snap Sections	Tributary Load Width "W" = Purlin Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
	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	4'-11"	Pb	4'-11"	Pb	4'-10"	Ud
2" x 3" x 0.045"	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-2"	Ud	6'-11"	Ud	6'-9"	Ud	6'-6"	Ud
2" x 4" x 0.045"	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-0"	Ud	8'-9"	Ud	8'-6"	Ud	8'-2"	Ud
Uniform Load = 4 lb/ft	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-0"	Ud	8'-9"	Ud	8'-6"	Ud	8'-2"	Ud

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

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"	8'-2"	Ud	7'-10"	Ud	7'-6"	Ud	7'-3"	Ud	7'-0"	Ud	6'-10"	Ud	6'-7"	Ud
2" x 4" x 0.050"	11'-1"	Ub	10'-4"	Ub	9'-9"	Ub	9'-3"	Ub	8'-10"	Ub	8'-5"	Ub	8'-0"	Ub
2" x 5" x 0.062"	15'-8"	Ud	14'-11"	Ud	14'-5"	Ud	13'-11"	Ud	13'-5"	Ub	12'-11"	Ub	12'-3"	Ub

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"	5'-11"	Ud	5'-8"	Ud	5'-6"	Ud	5'-4"	Ud	5'-2"	Ud	4'-11"	Ud	4'-10"	Ud

Note:

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" = 8'-3"

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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	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
3" x 2" x 0.045"	8'-4"	d	7'-4"	b	6'-6"	b	5'-10"	b	5'-4"	b	4'-11"	b	4'-7"	b
3" x 2" x 0.070"	9'-5"	d	8'-6"	d	7'-9"	b	7'-0"	b	6'-5"	b	5'-11"	b	5'-7"	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

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	5'-3"	d	4'-10"	b	4'-5"	b	4'-1"	b
B. Sections As Horizontals Fastened To Posts Through Side Into Screw Bases														

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	6'-6"	b	5'-11"	b	5'-6"	b	5'-1"	b
3" x 2" x 0.070"	11'-5"	b	9'-10"	b	8'-8"	b	7'-10"	b	7'-2"	b	6'-8"	b	6'-3"	b
2" x 3" x 0.045"	11'-2"	d	9'-9"	b	8'-8"	b	7'-10"	b	7'-2"	b	6'-8"	b	6'-2"	b
2" x 4" x 0.050"	12'-6"	b	10'-9"	b	9'-6"	b	8'-7"	b	7'-11"	b	7'-4"	b	6'-10"	b
2" x 5" x 0.062"	19'-3"	b	16'-7"	b	14'-9"	b	13'-5"	b	12'-4"	b	11'-6"	b	10'-9"	b

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

Note:

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.

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Coastal Craftsmen Aluminum, Inc.

1406 SW 15th Avenue, Ocala, Florida 34474

Phone No. (352) 369-1444 or Fax No. (352) 369-1988

October 9, 2008

To Whom It May Concern:

Re: Power of Attorney

To Whom It May Concern:

I, William Woodard, President of Coastal Craftsmen Aluminum, Inc. hereby authorize Marion County Building Department to include *Andrew Turner* on the list of employees to sign any and all papers or documents necessary to obtain licenses and permits for jobs contracted by *Coastal Craftsmen Aluminum, Inc.*

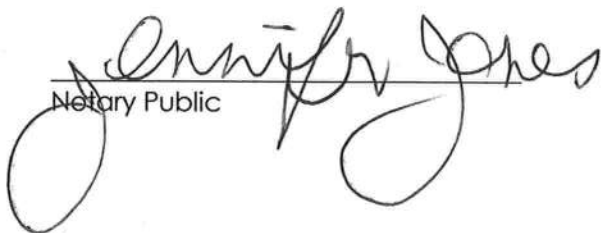
If you have any questions please call our office at (352) 369-1444.

Sincerely,



William Woodard
President
Coastal Craftsmen Aluminum
CGC047465

The foregoing instrument was acknowledged before me this 9th day of October 2008
by William Woodard who is personally known to me or who has produced
_____ as identification.



Notary Public

Seal:

