

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0605-18 Date Received 5 By _____ Permit # 24513
 Application Approved by - Zoning Official _____ Date _____ Plans Examiner _____ Date _____
 Flood Zone _____ Development Permit _____ Zoning _____ Land Use Plan Map Category _____
 Comments - 266 attached 1/25/06
X# 06-0173-

Applicants Name Francisco Ley Phone 352-817-6994
 Address 5058 Pecan Rd Ocala FL 34472
 Owners Name Merry & Michael Nehls Phone 386-497-2117
 911 Address 1145 SW Sassafraz St Ft. White, FL 32038-4034
 Contractors Name Thomas Cutcher Phone 352-817-5044
 Address PO Box 831120 Ocala FL 34483-1120
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Lawrence Bennett, South Daytona Beach
 Mortgage Lenders Name & Address _____

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

Property ID Number 12-65-16-03816-314 Hx Estimated Cost of Construction 6200.00

Subdivision Name Tustenugge Trails Lot 14 Block _____ Unit _____ Phase _____

Driving Directions From LAKE CITY Follow 441 South, T/L ON Rt 18 go 2 miks, T/R on Tustenugge and follow for 3 1/3 miles, turn left on Sassafraz St. At house 1 mile ahead on left

Type of Construction Screened enclosure Number of Existing Dwellings on Property 1

Total Acreage 10 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front _____ Side _____ Side _____ Rear _____

Total Building Height 10'3" Number of Stories 1 Heated Floor Area _____ Roof Pitch _____

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

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

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

Owner Builder or Agent (Including Contractor) _____

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 6th day of May 2006.
 Personally known X or Produced Identification _____

Contractor Signature _____
 Contractors License Number GC15100120
 Competency Card Number _____
 NOTARY STAMP/SEAL

Melanie D. Bruins
 Notary Signature



MELANIE D. BRUINS
 MY COMMISSION # DD 309112
 EXPIRES: April 11, 2008
 Bonded Thru Budget-Notary Services

Columbia County Building Permit Application

Revised 8-21-04

For Office Use Only Application # 060518 Date Received 5-1-06 By Joe Permit #
 Application Approved by - Zoning Official RLX Date 5-1-06 Plans Examiner OKJTH Date 5-1-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments

MAILED IN TO
JOE
NO # WAS ASSIGNED
@ the time

Applicant's Name Joe Fire Development Construction Phone 352-817-5044
 Address 16 PO Box 83120 Ocala FL 34483-1120
 Owners Name Merry Michael Nehls Phone 352-497-2111
 911 Address 145 SW Sycamore St Ft White FL 32038-4044
 Contractors Name Joe Fire Development Construction Phone 352-817-5044
 Address 16 PO Box 83120 Ocala FL 34483-1120
 Fee Simple Owner Name & Address
 Bonding Co. Name & Address
 Architect/Engineer Name & Address Lawrence Bennett, South Daytona Beach
 Mortgage Lenders Name & Address
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 12-15-16-00240-314 HX Estimated Cost of Construction 6500
 Subdivision Name Turkey Creek Tracts 2nd Lot 14 Block Unit Phase
 Driving Directions

Type of Construction Screened Enclosure Number of Existing Dwellings on Property 1
 Total Acreage 10.00 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 500' Side 250' Side Rear
 Total Building Height 16 Number of Stories Heated Floor Area Roof Pitch

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Owner/Builder or Agent (including Contractor)
Merry Nehls
 STATE OF FLORIDA
 COUNTY OF COLUMBIA Alachua

Sworn to (or affirmed) and subscribed before me
 this 24th day of April 2006
 Personally known or Produced Identification Driver's Licence

Contractor Signature
 Contractors License Number CC510160
 Competency Card Number
 NOTARY STAMP/SEAL

Notary Signature Notary for Merry Nehls

DEBORAH A. VAUGHN
 NOTARY PUBLIC - STATE OF FLORIDA
 MY COMMISSION EXPIRES MAR. 25, 2010
 COMMISSION # DD 506232



BARBARA C. I
 Notary Public, St
 My comm. expires
 No. DD 28

BARBARA C. HOLLAND
 Notary Public, State of Florida
 My comm. expires Jan. 12, 2008
 No. DD 280807



State of Florida
 County of Marion
 The foregoing document was signed before me this
24th day of April 2006
 by Janet R. Wolfe

(SEAL)

Type of Id. Produced

FL DL

W410-436-61-750-0

PRD 7-10-06 ISS 10-24-07

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # _____ Date Received _____ By _____ Permit # _____
 Application Approved by - Zoning Official _____ Date _____ Plans Examiner _____ Date _____
 Flood Zone _____ Development Permit _____ Zoning A-3 Land Use Plan Map Category A-3
 Comments _____

Applicants Name Paso Fino Development & Construction Phone 352-817-5044
 Address P.O. Box 83120 Ocala FL 34483-1120
 Owners Name Merry & Michael Nehls Phone 386-497-2117
 911 Address 1145 SW Sassafras St Ft. White, FL 32038-4084
 Contractors Name Thomas Litcher Phone 352-687-4957
 Address 3058 Pecan Rd Ocala FL 34472
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Lawrence Bennett, South Daytona Branch
 Mortgage Lenders Name & Address _____
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 1265-16-03816-314 H/L Estimated Cost of Construction \$6200.00
 Subdivision Name Tusnuggee Tracts (912 North) Lot 14 Block _____ Unit _____ Phase _____
 Driving Directions 75 - Exit 309 - T/L - go to Route 18 T/L - T/R on Tusnuggee
T/L on Sassafras St

Type of Construction Screened Enclosure Number of Existing Dwellings on Property 1
 Total Acreage 10.020 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 500' Side 250' Side _____ Rear _____
 Total Building Height 10'3" Number of Stories 1 Heated Floor Area _____ Roof Pitch _____

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

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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this _____ day of _____ 20____.

Personally known _____ or Produced Identification _____

Contractor Signature

Contractors License Number 361510010

Competency Card Number _____

NOTARY STAMP/SEAL

Notary Signature

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERK'S OFFICE BEFORE YOUR FIRST INSPECTION

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

Tax Parcel ID Number 12-165-16-03816-314 HX

1. Description of property: (Legal description of the property and street address or 911 address)
NW Corn of NE 1/4 Run S 22.91 Ft to S R/W Ichetucknee Rd
Run E along R/W 1347.02
1145 SW Success Ave St
Ft White, FL 32038-4034
2. General description of improvement: Extremed enclosure
3. Owner Name & Address Merry & Michael Nehls, 1145 SW Success Ave St
Ft White, FL 32038-4034 Interest in Property 51
4. Name & Address of Fee Simple Owner (if other than owner):
N/A
5. Contractor Name PosiFence Development & Construction Inc Phone Number 352-817-5044
Address PO Box 83120 Ocala, FL 34492-1120
6. Surety Holders Name _____ Phone Number _____
Address _____
Amount of Bond _____
7. Lender Name _____ Phone Number _____
Address _____
8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 713.13 (1)(a) 7, Florida Statutes:
Name _____ Phone Number _____
Address _____
9. In addition to himself/herself the owner designates _____ of _____
to receive a copy of the Lender's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee _____
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording.
(Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Signature of Owner

Merry Nehls

Sworn to (or affirmed) and subscribed before
24th day of April, 2006

NOTARY STAMP/SEAL

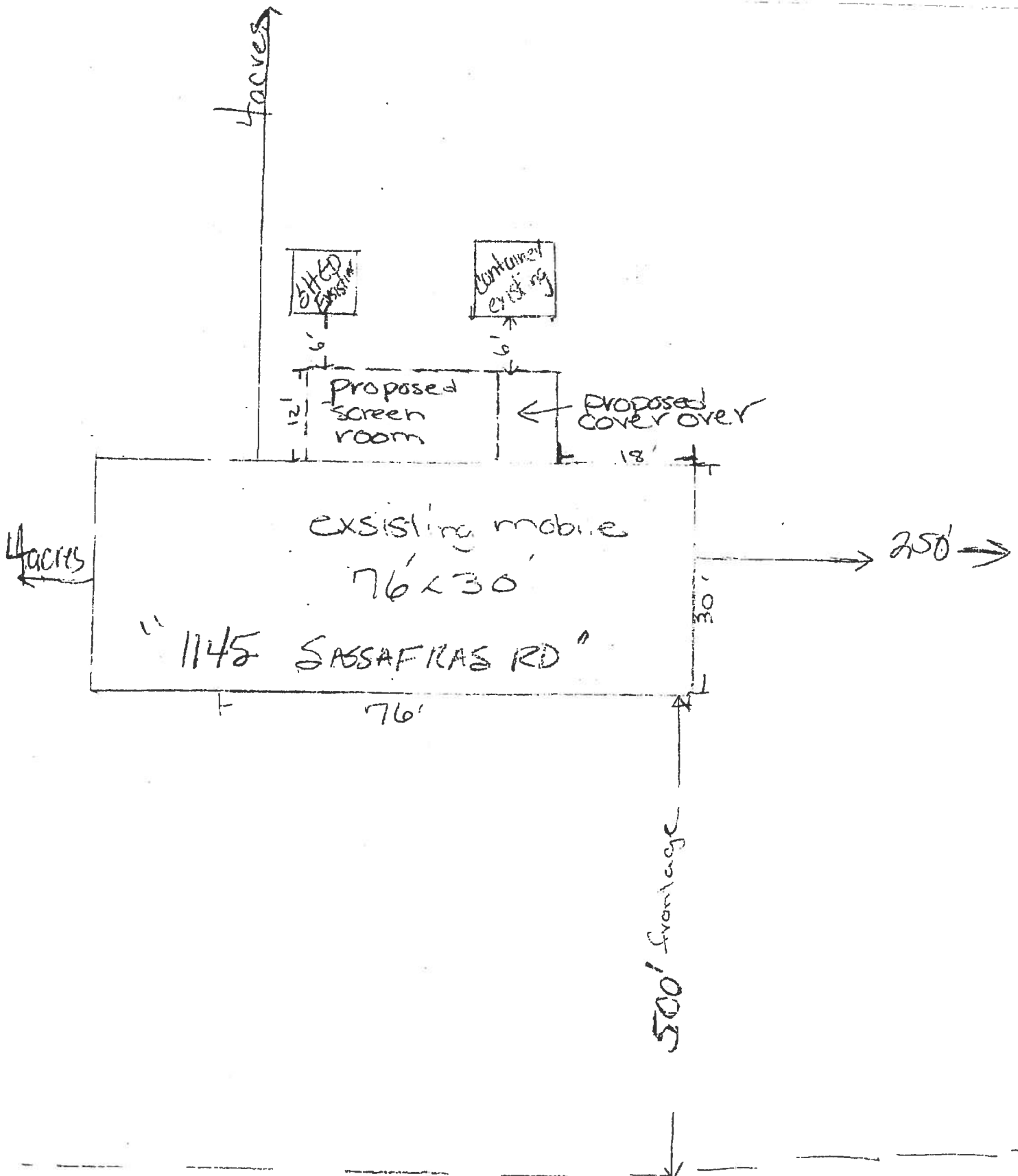
Signature of Notary

DEBORAH A. VAUGHN
NOTARY PUBLIC - STATE OF FLORIDA
MY COMMISSION EXPIRES MAR. 25, 2010
COMMISSION # DD 506232

Inst:2006011810 Date:05/15/2006 Time:13:43
DC,P.Dewitt Cason,Columbia County B:1083 P:2059

Scale - $\frac{1}{16}'' = 1'$

Paso Fino
Development & Construction
P.O.BOX 831120
Ocala, Fl 34483-1120



@ CAM112M01 S CamaUSA Appraisal System
 5/04/2006 17:07 Legal Description Maintenance
 Year T Property Sel
 2006 R 12-6S-16-03816-314
 1145 SASSAFRAS ST SW FT WHITE
 HX NEHLS MERRY S & MICHAEL H

Columbia County
 66128 Land 002
 AG 000
 63974 Bldg 001 *
 1980 Xfea 002
 132082 TOTAL B

1	COMM NW COR OF NE1/4, RUN S	22.91 FT TO S R/W ICHETUCKNEE	2
3	RD, RUN E ALONG R/W 1347.02	FT, S 1221.20 FT, E 650.50	4
5	FT FOR POB, CONT E 650.03 FT,	S 671.46 FT, W 650.03 FT, N	6
7	671.46 FT TO POB. (AKA LOT 14	TUSTENUGGEE TRAILS S/D UNREC)	8
9	ORB 874-300, QC 1053-2822.	WD 1065-1048.	10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt 12/06/2005 THRESA

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

To: Joe

From: Janet / Paso Fino Construction

Date: May 3, 2006

HERE ARE THE FORMS REQUESTED.
PLEASE CALL 352-817-5041 OR
FAX 352-687-4957 IF YOU NEED
ANYTHING ELSE.

THANK YOU,
JANET WOIFE

First American Title Insurance Company

ALTA OWNER'S POLICY

Agent's File Number: 05-198

Owner's Policy Number: FA-35-1387947

Schedule A, Continuation

PARCEL 14 OF TUSTENUGGEE TRAILS, UNRECORDED:

COMMENCE AT THE NW CORNER OF THE NE 1/4 OF SECTION 12, TOWNSHIP 6 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE S. 00 DEG.03 MIN.14 SEC. EAST ALONG THE WEST LINE OF THE EAST 1/2; OF SAID SECTION 12, 22.91 FEET TO THE SOUTH LINE OF ICHETUCKNEE ROAD (A COUNTY MAINTAINED GRADED ROAD) THENCE N 89 DEG.26 MIN.50 SEC.EAST, STILL ALONG SOUTH LINE OF ICHETUCKNEE ROAD 561.07 FEET; THENCE N 89 DEG. 05 MIN. 20 SEC.EAST, STILL ALONG SAID SOUTH LINE ICHETUCKNEE ROAD, 785.95 FEET; THENCE S 00 DEG. 20 MIN. 48 SEC. WEST, 1221.20 FEET, THENCE S 89 DEG. 38 MIN. 15 SEC. EAST, 650.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S 89 DEG. 38 MIN. 15 SEC. EAST, 650.03 FEET; THENCE S 00 DEG. 20 MIN. 48 SEC. WEST, 671.46 FEET; THENCE N 89 DEG. 38 MIN. 15 SEC.WEST, 650.03 FEET; THENCE N 00 DEG. 20 MIN. 48 SEC. EAST, 671.46 FEET TO THE POINT OF BEGINNING. THE SOUTH 30 FEET AND THE EAST 30 FEET OF SAID LANDS BEING SUBJECT TO EASEMENT FOR INGRESS AND EGRESS. SAID LANDS BEING A PART OF THE NE 1/4 OF SECTION 12.

TOGETHER WITH:
60 FOOT ROAD EASEMENTS

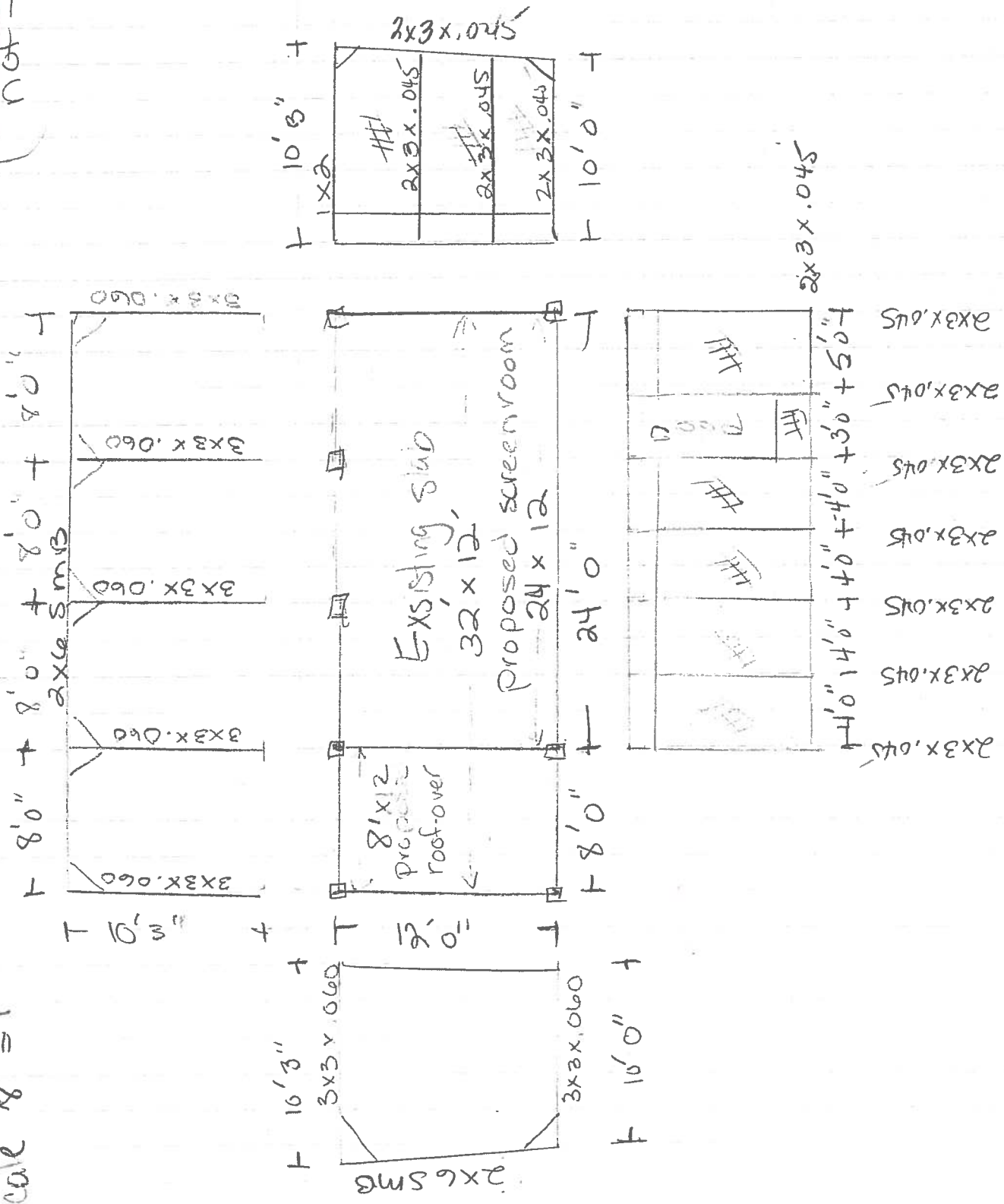
A STRIP OF LAND 60 FEET IN WIDTH BEING 30 FEET EACH SIDE OF A CENTERLINE DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF THE NE 1/4 OF SECTION 12, TOWNSHIP 6 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE S 00 DEG. 03 MIN. 14 SEC. EAST ALONG THE WEST LINE OF THE EAST 1/2 OF SAID SECTION 12, 22.91 FEET TO THE SOUTH LINE OF ICHETUCKNEE ROAD (A COUNTY MAINTAINED GRADED ROAD); THENCE N 89 DEG. 26 MIN. 50 SEC. EAST ALONG SAID SOUTH LINE OF ICHETUCKNEE ROAD, 561.07 FEET; THENCE N 89 DEG. 05 MIN. 20 SEC. EAST, STILL ALONG SAID SOUTH LINE OF ICHETUCKNEE ROAD, 785.95 FEET TO THE POINT OF BEGINNING; THENCE S 00 DEG. 20 MIN. 48 SEC. WEST, 1319.95 FEET TO REFERENCE POINT "A"; THENCE CONTINUE S 00 DEG. 20 MIN. 48 SEC.WEST, 572.72 FEET TO REFERENCE POINT "B"; THENCE CONTINUE S 00 DEG. 20 MIN. 48 SEC. WEST, 743.46 FEET TO REFERENCE POINT "C"; THENCE N 89 DEG. 38 MIN. 15 SEC. WEST, 664.25 FEET TO THE CENTERPOINT OF A CUL-DE-SAC HAVING A RADIUS OF 50 FEET AND THE POINT OF TERMINATION, ALSO BEGIN AT REFERENCE POINT "A" AND RUN THENCE N 89 DEG. 38 MIN. 15 SEC. WEST, 668.85 FEET TO THE CENTERPOINT OF A CUL-DE-SAC HAVING A RADIUS OF 50 FEET AND THE POINT OF TERMINATION. ALSO BEGIN AT REFERENCE POINT "B" AND RUN THENCE S 89 DEG. 38 MIN. 15 SEC. EAST, 1300.53 FEET TO REFERENCE POINT "D"; THENCE CONTINUE S 89 DEG. 38 MIN. 15 SEC EAST, 1300.06 FEET TO REFERENCE POINT "E"; THENCE N 00 DEG. 20 MIN. 48 SEC. EAST, 671.46 FEET TO THE CENTERPOINT OF A CUL-DE-SAC HAVING A RADIUS OF 50 FEET AND THE POINT OF TERMINATION, ALSO BEGIN

Scale $\frac{1}{8}" = 1'$

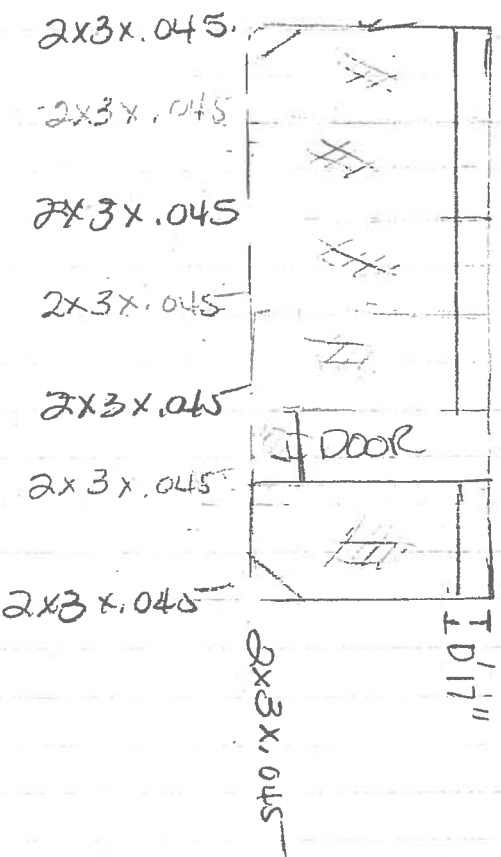
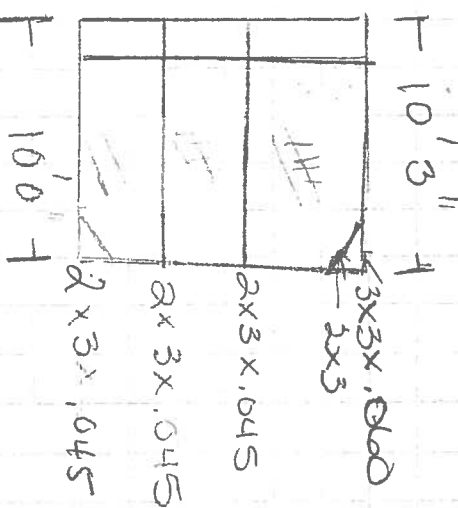
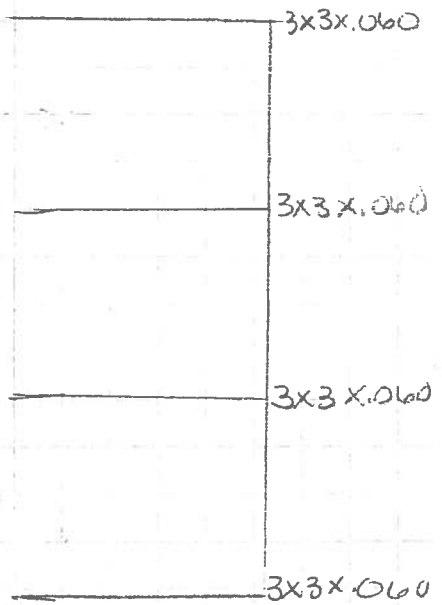
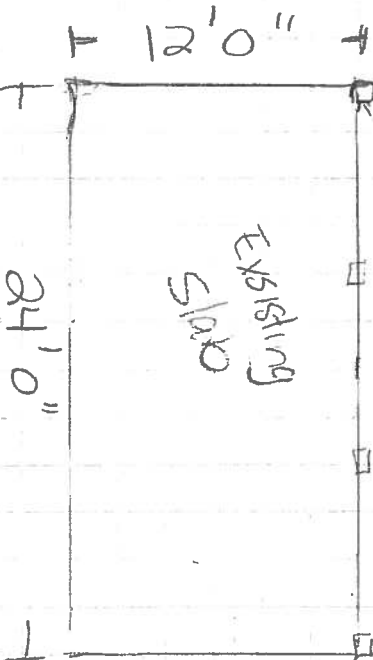
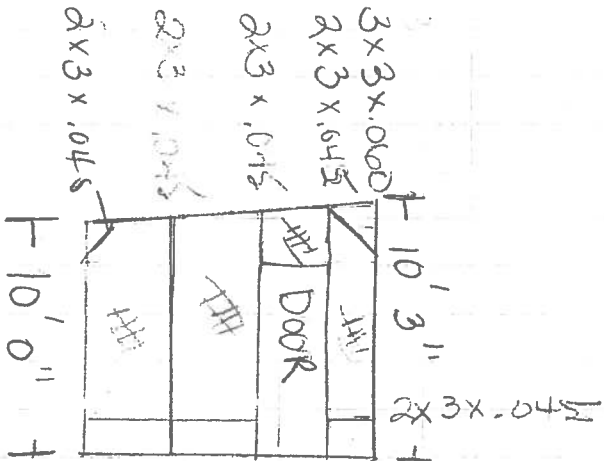
Attach ^{enclosure} to mobile

Attach to mobile



Roof over with Screened enclosure

Scale 1/8" = 1'



2x3x.045

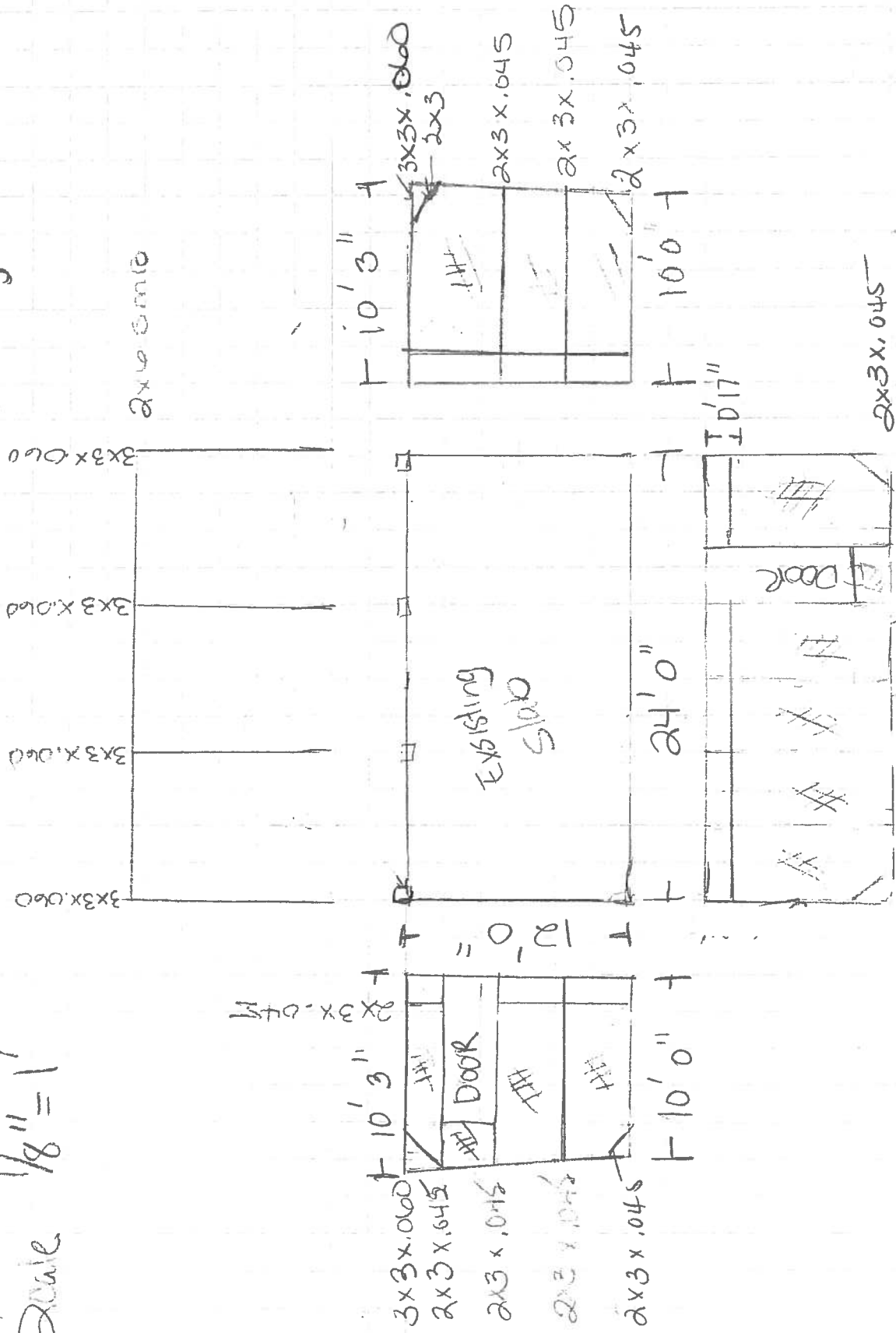
BACK OF HOUSE
NOT ATTACHED TO MAIN

Green & 1 Enclosure

Scale 1/8" = 1'

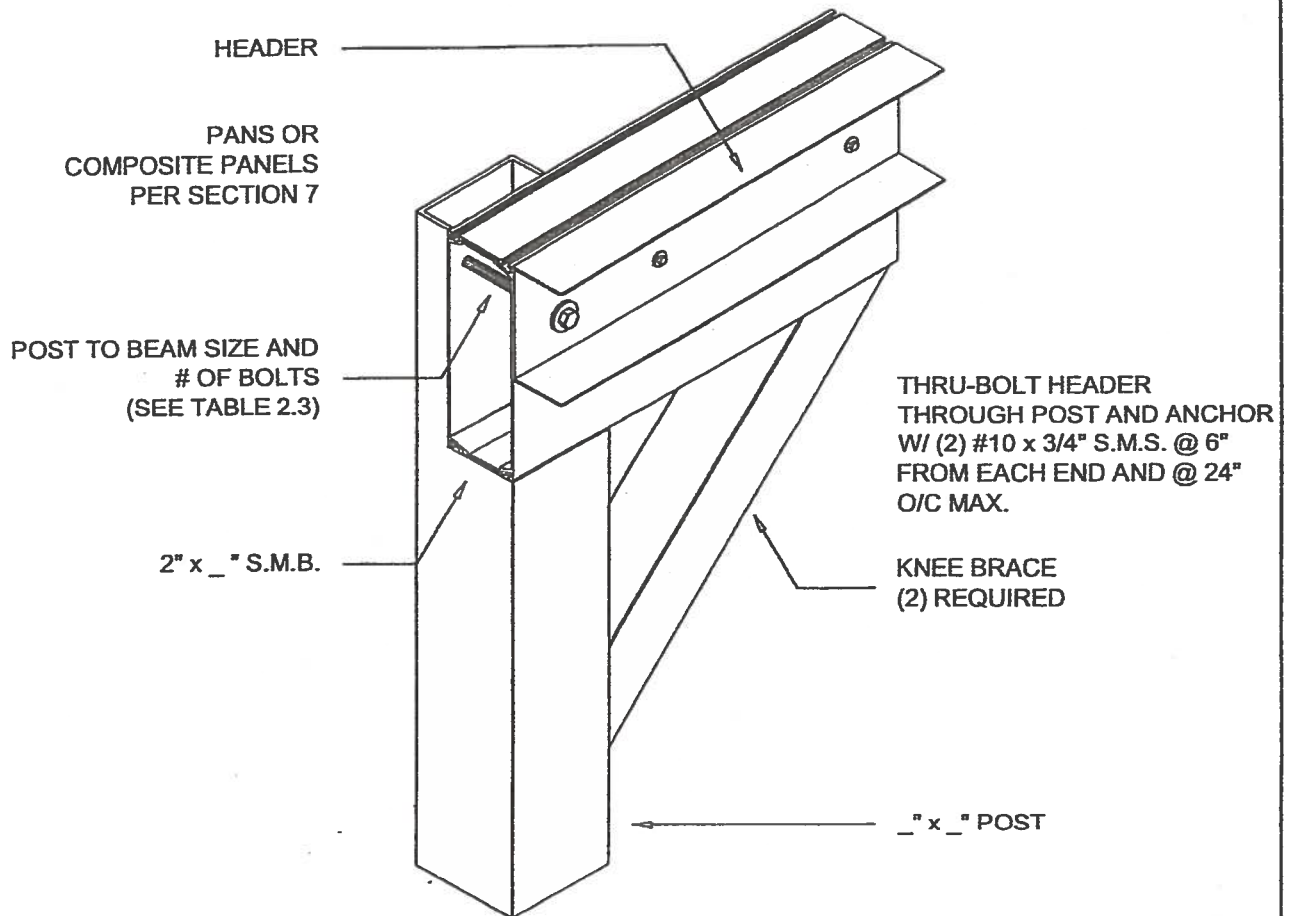
BACK OF HOUSE

WHEN ADJ. TO MOBILE



Screened Enclosure

NOTE:
FLASHING AS NECESSARY TO
PREVENT WATER INTRUSION



ALTERNATE 4TH WALL BEAM CONNECTION DETAIL

SCALE: N.T.S.

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

CIVIL ENGINEER - DEVELOPMENT CONSULTANT

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

TELEPHONE: (386) 767-4774

FAX: (386) 767-6556

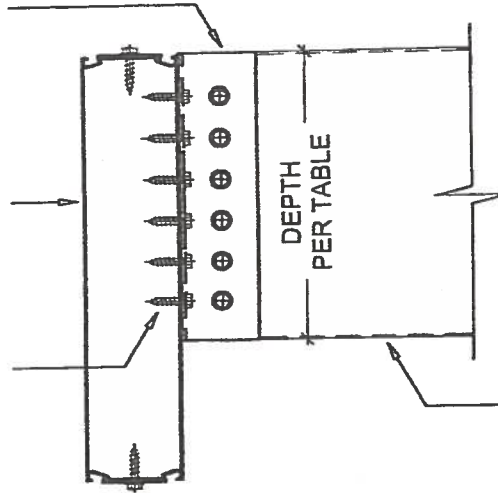
SECTION 2

ATTACHED & FREE-STANDING COVERS AND UTILITY SHEDS

CONNECTOR MAY BE (2) ANGLES, INTERNAL 'U' CHANNEL OR EXTERNAL 'U' CHANNEL EACH SIDE OF CONNECTING BEAM W/ SCREWS (PER SECTION 9)

PRIMARY / FRAMING BEAM
(SEE SPAN TABLES
SECTION 2)

MINIMUM NUMBER S.M.S. 3/4" LONG REQUIRED EQUAL TO BEAM DEPTH (SEE SECTION 9)



EXTRUSIONS W/ INTERNAL SCREW BOSSES MAY BE CONNECTED W/ (4) #10 x 1-1/2" INTERNALLY

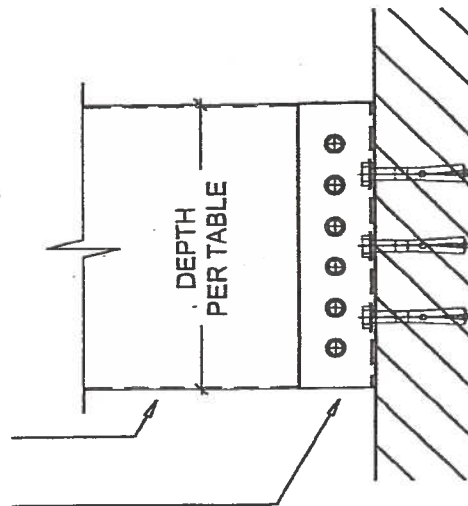
SECONDARY BEAM / PURLINS (SEE SPAN TABLES SECTION 2)

BEAM TO BEAM CONNECTION DETAIL

SCALE: 3" = 1'-0"

HOST STRUCTURE MASONRY OR FRAMED WALL
(SELECT FASTENERS FROM SECTION 9 TABLES)

PRIMARY BEAM
(SEE SPAN TABLES SECTION 2)
ANGLE OR RECEIVING CHANNEL



BEAM TO WALL CONNECTION:

(2) 2" x 2" x 0.060" EXTERNALLY MOUNTED ANGLES ATTACHED TO WOOD FRAME WALL W/ MIN. (2) 3/8" x 2" LAG SCREWS PER SIDE OR TO CONCRETE W/ (2) 1/4" x 2-1/4" ANCHORS OR MASONRY WALL ADD (1) ANCHOR PER SIDE FOR EACH INCH OF BEAM DEPTH LARGER THAN 3"

ALTERNATE CONNECTION:

(1) 1-3/4" x 1-3/4" x 1-3/4" x 1/8" INTERNAL U-CHANNEL ATTACHED TO WOOD FRAME WALL W/ MIN. (3) 3/8" x 2" LAG SCREWS OR TO CONCRETE OR MASONRY WALL W/ (3) 1/4" x 2-1/4" ANCHORS OR ADD (1) ANCHOR PER SIDE FOR EACH INCH OF BEAM DEPTH LARGER THAN 3"

BEAM TO WALL CONNECTION DETAIL

SCALE: 3" = 1'-0"

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

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

SECTION 2

ATTACHED & FREE-STANDING COVERS AND UTILITY SHEDS

Table 2.1.2-110 Allowable Roof Beam Spans
For Attached Covers, Fourth Wall Structures, or Freestanding Gabled Carports
For 3 sec. wind gust at 110 MPH; using design load of 12 #/SF (36 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

2" x 3" x 0.045" Hollow					2" x 3" x 0.050" Hollow Tilt				
Load	Max. Span 'L' / (bending 'b' or deflection 'd')				Load	Max. Span 'L' / (bending 'b' or deflection 'd')			
Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever
4	7'-10" d	9'-8" d	9'-10" d	1'-7" d	4	7'-8" d	9'-6" d	9'-8" d	1'-7" 0
5	7'-3" d	8'-11" d	9'-1" b	1'-6" d	5	7'-2" d	8'-10" d	8'-11" b	1'-6" d
6	6'-10" d	8'-5" d	8'-4" b	1'-5" d	6	6'-9" d	8'-4" d	8'-1" b	1'-5" d
7	6'-6" d	7'-11" b	7'-8" b	1'-4" d	7	6'-5" d	7'-9" b	7'-6" b	1'-4" d
8	6'-3" d	7'-5" b	7'-2" b	1'-3" d	8	6'-1" d	7'-3" b	7'-0" b	1'-3" d
9	5'-11" d	7'-0" b	6'-10" b	1'-3" d	9	5'-11" d	6'-10" b	6'-7" b	1'-2" d
10	5'-9" d	6'-8" b	6'-5" b	1'-2" d	10	5'-8" d	6'-6" b	6'-3" b	1'-2" d
11	5'-7" d	6'-4" b	6'-2" b	1'-2" d	11	5'-6" d	6'-2" b	5'-11" b	1'-2" d
12	5'-5" d	6'-1" b	5'-11" b	1'-1" d	12	5'-4" b	5'-11" b	5'-9" b	1'-1" d
2" x 4" x 0.045" Hollow Tilt					2" x 4" x 0.044" x 0.100" Self Mating Beam				
Load	Max. Span 'L' / (bending 'b' or deflection 'd')				Load	Max. Span 'L' / (bending 'b' or deflection 'd')			
Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever
4	9'-9" d	12'-0" d	12'-3" b	1'-11" d	4	11'-4" d	13'-11" d	14'-3" d	2'-4" 0
5	9'-0" d	11'-2" d	10'-11" b	1'-10" d	5	10'-6" d	12'-11" d	13'-3" d	2'-2" d
6	8'-6" d	10'-4" b	9'-11" b	1'-9" d	6	9'-11" d	12'-3" d	12'-6" b	2'-0" d
7	8'-1" d	9'-7" b	9'-3" b	1'-8" d	7	9'-5" d	11'-7" d	11'-7" b	1'-11" d
8	7'-9" d	8'-11" b	8'-8" b	1'-7" d	8	8'-11" d	11'-1" d	10'-10" b	1'-10" d
9	7'-5" d	8'-5" b	8'-2" b	1'-6" d	9	8'-8" d	10'-6" b	10'-2" b	1'-9" d
10	7'-2" b	7'-11" b	7'-9" b	1'-6" d	10	8'-4" d	9'-11" b	9'-8" b	1'-9" d
11	6'-10" b	7'-8" b	7'-4" b	1'-5" d	11	8'-1" d	9'-6" b	9'-3" b	1'-8" d
12	6'-8" b	7'-4" b	7'-1" b	1'-5" d	12	7'-10" d	9'-1" b	8'-10" b	1'-7" d
2" x 5" x 0.050" x 0.100" Self Mating Beam					2" x 6" x 0.050" x 0.120" Self Mating Beam				
Load	Max. Span 'L' / (bending 'b' or deflection 'd')				Load	Max. Span 'L' / (bending 'b' or deflection 'd')			
Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever
4	14'-0" d	17'-4" d	17'-8" d	2'-11" d	4	16'-5" d	20'-4" d	20'-8" d	3'-4" 0
5	13'-0" d	16'-1" d	16'-5" d	2'-8" d	5	15'-3" d	18'-10" d	19'-3" d	3'-2" d
6	12'-3" d	15'-2" d	15'-5" b	2'-6" d	6	14'-4" d	17'-9" d	17'-10" b	2'-11" d
7	11'-8" d	14'-5" d	14'-3" b	2'-5" d	7	13'-8" d	16'-10" d	16'-6" b	2'-10" d
8	11'-2" d	13'-9" d	13'-4" b	2'-3" d	8	13'-0" d	15'-11" b	15'-5" b	2'-8" d
9	10'-9" d	13'-0" b	12'-7" b	2'-2" d	9	12'-6" d	15'-1" b	14'-7" b	2'-7" d
10	10'-4" d	12'-4" b	11'-11" b	2'-1" d	10	12'-1" d	14'-4" b	13'-10" b	2'-6" d
11	10'-0" d	11'-9" b	11'-5" b	2'-1" d	11	11'-9" d	13'-8" b	13'-2" b	2'-5" d
12	9'-9" d	11'-3" b	10'-11" b	1'-11" d	12	11'-5" d	13'-1" b	12'-7" b	2'-4" d

* Gabled sloped roofs include gables with a roof slope greater than 1" in 12".

Notes:

1. 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.
2. Spans may be interpolated.

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SECTION 2

ATTACHED & FREE-STANDING COVERS AND UTILITY SHEDS

Table 2.2.1 Allowable Attributable **Roof Area** per Post for Carports, **Patio Covers**, and other Open Buildings - ALUMINUM POSTS

Aluminum Post								
Wind Load (MPH) =	100	110	120	123	130	140A	140B & 150	
Attached Cover Uplift * =	10 #/SF	12 #/SF	14 #/SF	15 #/SF	16 #/SF	19 #/SF	30 #/SF	
Free Standing Uplift =	10 #/SF	10 #/SF	11 #/SF	12 #/SF	13 #/SF	15 #/SF	30 #/SF	
Maximum Allowable Roof Area in Square Feet for Various Loads on Post								
Height	Load (lbs.)	2" x 2" x 0.044" Hollow Extrusion or 2" x 2" x 0.045" Snap Extrusion - Aluminum Alloy 6063 T-6						
7'-4"	2,064	206	172	147	138	129	109	69
8'-7"	1,548	155	129	111	103	97	81	52
9'-10"	1,204	120	100	86	80	75	63	40
11'-1"	903	90	75	65	60	56	48	30
Height	Load (lbs.)	2" x 3" x 0.045" Hollow Extrusion or 2" x 3" x 0.045" Snap Extrusion - Aluminum Alloy 6063 T-6						
8'-2"	2,736	274	228	195	182	171	144	91
9'-6"	2,502	250	209	179	167	156	132	83
10'-11"	1,596	160	133	114	106	100	84	53
12'-3"	1,197	120	100	86	80	75	63	40
Height	Load (lbs.)	3" x 3" x 0.040" Roll Formed - Aluminum Alloy 3105 H-14						
10'-0"	2,381	238	198	170	159	149	125	79
11'-8"	1,786	179	149	128	119	112	94	60
13'-4"	1,389	139	116	99	93	87	73	46
15'-0"	1,042	104	87	74	69	65	55	35
Height	Load (lbs.)	3" x 3" x 0.060" Roll Formed - Aluminum Alloy 3105 H-14						
11'-0"	3,600	360	300	257	240	225	189	120
12'-10"	2,700	270	225	193	180	169	142	90
14'-8"	2,100	210	175	150	140	131	111	70
16'-6"	1,575	158	131	113	105	98	83	53
Height	Load (lbs.)	3" x 3" x 0.060" Fluted Hollow Extrusion - Aluminum 6063 T-6						
11'-10"	3,408	341	284	243	227	213	179	114
13'-10"	2,556	256	213	183	170	160	135	85
15'-10"	1,988	199	166	142	133	124	105	66
17'-10"	1,491	149	124	107	99	93	78	50

Example:

Find Roof Area Needed; Area = 'A'; Post Spacing = 'S'; Structure Projection = 'W':

$A = S \times (W/2 + O.H.)$; If 'S' = 10', W = 24', and O.H. = 2' then: 'Area' = 140 Sq. Ft.

a. For a 9'-6" post and 120 m.p.h. wind load of 14 # / Sq. Ft. post choices are:

1. 2" x 3" x 0.045" Hollow Extrusion

2. All post sizes listed below the 2" x 3" x 0.045" Hollow Section

b. If job conditions dictate a post height of 10'-11" for A = 140 Sq. Ft. and 120 MPH wind zone, then a 2" x 3" x 0.045" Hollow Extrusion can NOT be used since it can only support a roof area of 114 Sq. Ft.

Thus, design must satisfy both height and area requirements.

Note:

1. Spans may be interpolated.

2. For free standing covers, multiply above roof areas by 1.25 (except for 100 MPH).

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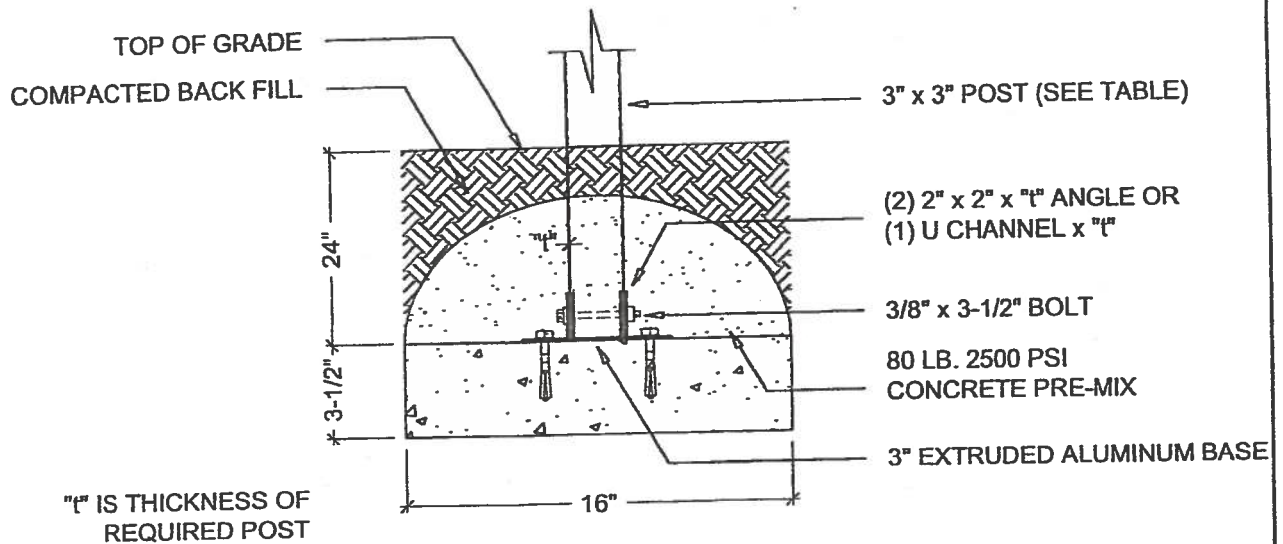
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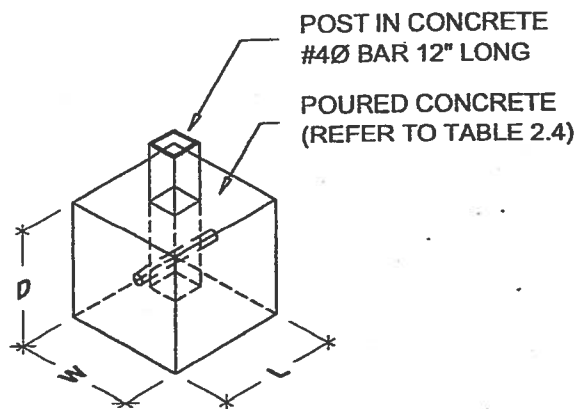
SECTION 2

ATTACHED & FREE-STANDING COVERS AND UTILITY SHEDS



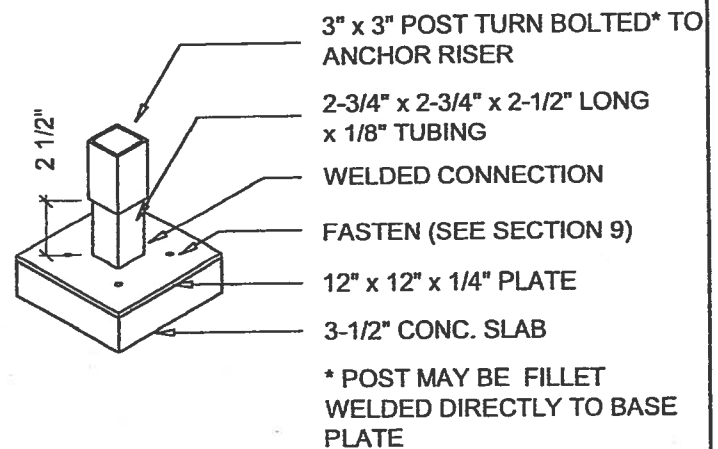
ALUMINUM POST AND BURIED FOOTING CONNECTION

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



ISOLATED FOOTING

SCALE: 3" = 1'-0"



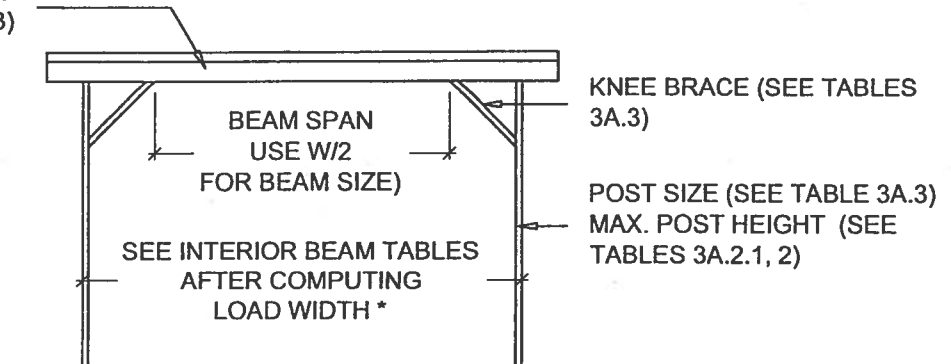
BASE ANCHOR CONNECTOR FOR POST TO SLAB CONNECTION

SCALE: 3" = 1'-0"

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INTERIOR BEAM (SEE TABLES 3A.1.3)



* LOAD WIDTH IS 1/2 THE DISTANCE BETWEEN SUPPORTS ON EITHER SIDE OF THE BEAM OR SUPPORT BEING CONSIDERED

**TYPICAL SECTION "FOURTH" WALL FOR ADDITIONS
ADJACENT TO A MOBILE / MANUFACTURED HOME**

SCALE: 3/16" = 1'-0"

Extrusion Sizing Table:

Upright Size	Max. Beam Size	Knee Brace
2" x 2" x 0.036"	2" x 4"	2" x 2" x 0.036"
3" x 2" x 0.050"	2" x 4"	2" x 3" x 0.050"
3" x 3" x 0.060"	2" x 6" S.M.B.	2" x 3" x 0.050"
3" x 3" x 0.093"	2" x 8" S.M.B.	2" x 3" x 0.050"
3" x 3" x 0.125"	2" x 9" S.M.B.	3" x 3" x 0.093"
4" x 4" x 0.125"	2" x 10" S.M.B.	3" x 3" x 0.125"

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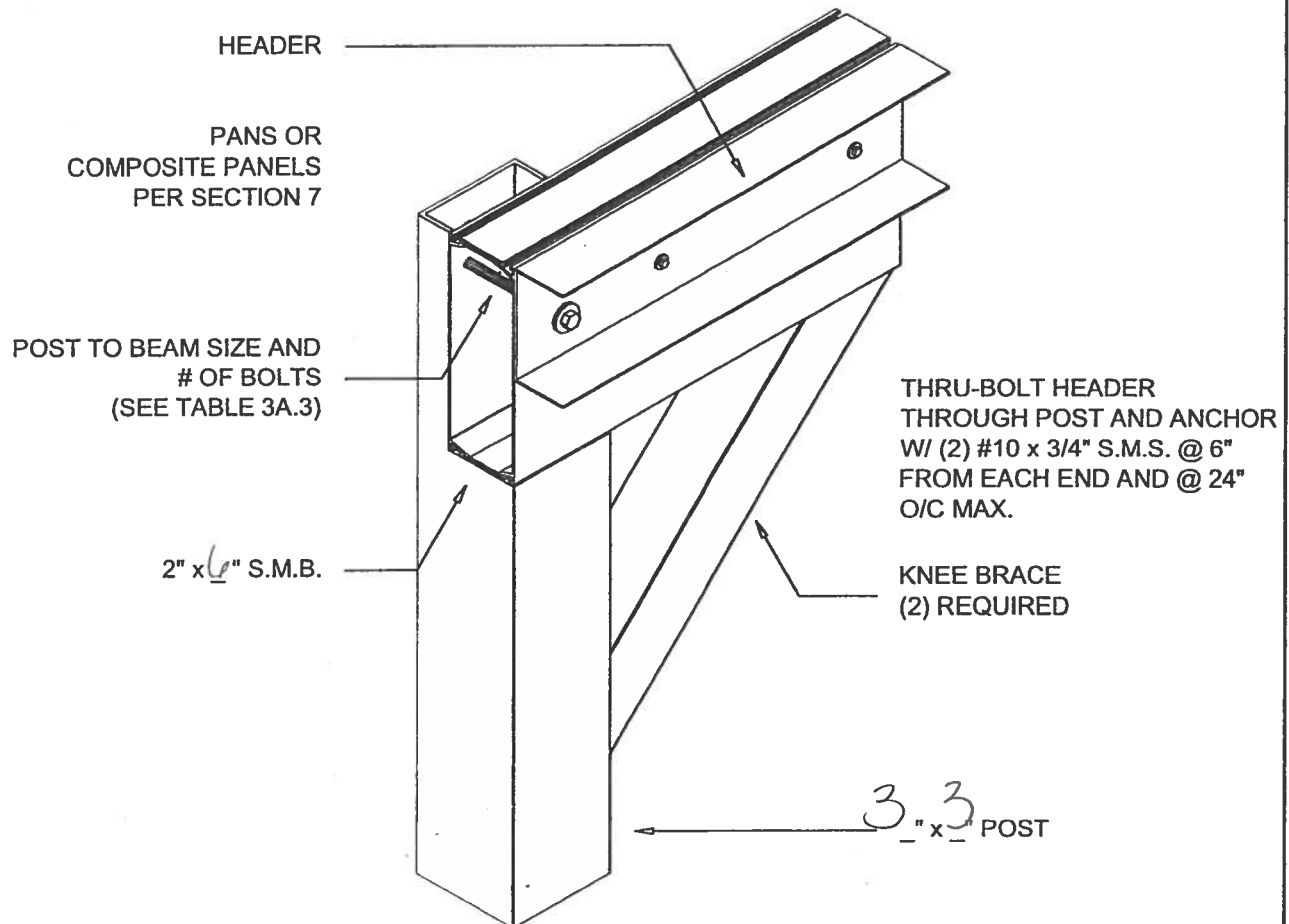
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NOTE:
FLASHING AS NECESSARY TO
PREVENT WATER INTRUSION



ALTERNATE 4TH WALL BEAM CONNECTION DETAIL

SCALE: N.T.S.

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SECTION 3A

SCREEN, ACRYLIC & VINYL ROOMS

Table 3A.1.1-110 Allowable Edge Beam Spans - Hollow Extrusions
for **Screen**, Acrylic or Vinyl Rooms

For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF (36 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

2" x 2" x 0.044"					2" x 2" x 0.055"				
Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')				Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever		1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	5'-4" d	6'-7" d	6'-9" d	1'-1" d	5	5'-8" d	6'-11" d	7'-1" d	1'-2" d
6	5'-0" d	6'-2" d	6'-4" d	1'-0" d	6	5'-4" d	6'-7" d	6'-8" d	1'-1" d
7	4'-9" d	5'-11" d	5'-11" b	0'-11" d	7	5'-1" d	6'-3" d	6'-4" d	1'-0" d
8	4'-7" d	5'-8" d	5'-7" b	0'-11" d	8	4'-10" d	5'-11" d	6'-1" b	0'-11" d
9	4'-5" d	5'-5" d	5'-3" b	0'-10" d	9	4'-8" d	5'-9" d	5'-9" b	0'-11" d
10	4'-3" d	5'-2" b	4'-11" b	0'-10" d	10	4'-6" d	5'-6" d	5'-5" b	0'-11" d
11	4'-1" d	4'-11" b	4'-9" b	0'-10" d	11	4'-4" d	5'-4" d	5'-2" b	0'-10" d
12	3'-11" d	4'-8" b	4'-7" b	0'-10" d	12	4'-3" d	5'-2" b	4'-11" b	0'-10" d
3" x 2" x 0.045"					3" x 2" x 0.070"				
Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')				Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever		1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	6'-0" d	7'-5" d	7'-7" d	1'-2" d	5	6'-9" d	8'-5" d	8'-7" d	1'-4" d
6	5'-8" d	7'-0" d	7'-2" d	1'-2" d	6	6'-5" d	7'-11" d	8'-0" d	1'-3" d
7	5'-5" d	6'-8" d	6'-10" d	1'-1" d	7	6'-1" d	7'-6" d	7'-8" d	1'-3" d
8	5'-2" d	6'-4" d	6'-6" d	1'-0" d	8	5'-10" d	7'-2" d	7'-4" d	1'-2" d
9	4'-11" d	6'-2" d	6'-3" d	0'-11" d	9	5'-7" d	6'-11" d	7'-0" d	1'-1" d
10	4'-9" d	5'-11" d	5'-11" b	0'-11" d	10	5'-5" d	6'-8" d	6'-9" d	1'-1" d
11	4'-8" d	5'-9" d	5'-8" b	0'-11" d	11	5'-3" d	6'-5" d	6'-7" d	1'-0" d
12	4'-6" d	5'-7" d	5'-5" b	0'-11" d	12	5'-1" d	6'-3" d	6'-5" d	1'-0" d
2" x 3" x 0.045"					2" x 4" x 0.050"				
Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')				Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever		1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	7'-6" d	9'-3" d	9'-5" d	1'-6" d	5	9'-8" d	11'-11" d	12'-2" b	1'-11" d
6	7'-0" d	8'-8" d	8'-8" b	1'-5" d	6	9'-1" d	11'-3" d	11'-1" b	1'-10" d
7	6'-8" d	8'-3" d	8'-1" b	1'-4" d	7	8'-8" d	10'-8" b	10'-3" b	1'-9" d
8	6'-5" d	7'-9" b	7'-6" b	1'-3" d	8	8'-3" d	9'-11" b	9'-7" b	1'-8" d
9	6'-2" d	7'-4" b	7'-1" b	1'-3" d	9	7'-11" d	9'-5" b	9'-1" b	1'-7" d
10	5'-11" d	6'-11" b	6'-9" b	1'-2" d	10	7'-8" d	8'-11" b	8'-7" b	1'-6" d
11	5'-9" d	6'-8" b	6'-5" b	1'-2" d	11	7'-5" d	8'-6" b	8'-2" b	1'-6" d
12	5'-7" d	6'-4" b	6'-2" b	1'-1" d	12	7'-3" d	8'-1" b	7'-10" b	1'-5" d

Notes:

- 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.
- Spans may be interpolated.

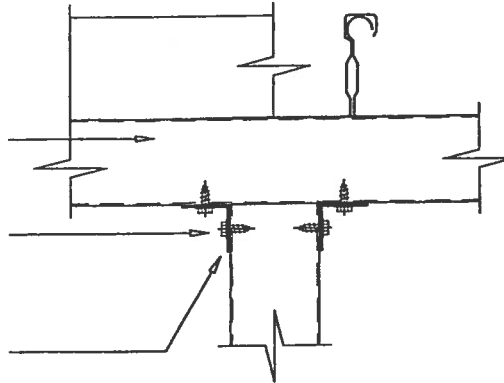
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PAN ROOF, COMPOSITE
PANEL OR HOST STRUCTURAL
FRAMING

(4) #8 x 1/2" S.M.S. EACH SIDE
OF POST

1 x 2 TOP RAIL FOR SIDE
WALLS ONLY OR MIN. FRONT
WALL 2 x 2 ATTACHED TO
POST W/ 1" x 1" x 2" ANGLE
CLIPS EACH SIDE OF POST



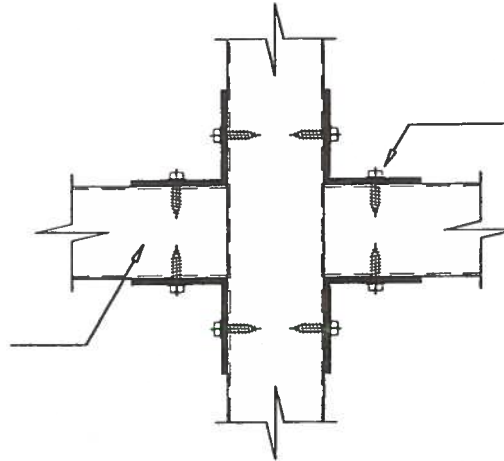
1" x 2" TOP RAILS FOR SIDE WALLS
WITH MAX. 3.5' LOAD WIDTH SHALL
HAVE A MAXIMUM UPRIGHT
SPACING AS FOLLOWS

WIND ZONE	MAX. UPRIGHT SPACING
100	7'-0"
110	6'-7"
120	6'-3"
123	6'-1"
130	5'-8"
140	5'-1"
150	4'-11"

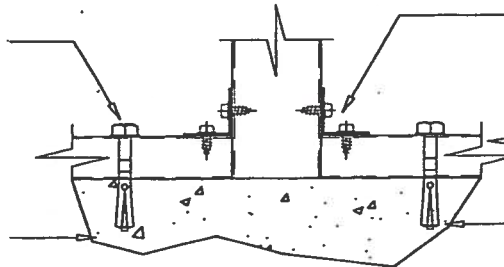
GIRT OR CHAIR RAIL AND KICK
PLATE 2" x 2" x 0.032" MIN.
HOLLOW RAIL

ANCHOR 1 x 2 PLATE TO
CONCRETE WITH 1/4" x 2-1/2"
CONCRETE ANCHORS WITHIN
6" OF EACH SIDE OF EACH
POST AT 24" O.C. MAX. OR
THROUGH ANGLE AT 24" O.C.
MAX.

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



INTERNAL OR EXTERNAL
'L' CLIP OR 'U' CHANNEL CHAIR
RAIL ATTACHED TO POST W/
MIN. (4) #10 S.M.S.



1 x 2 OR 2 x 2 ATTACHED TO
BOTTOM W/ 1" x 1" x 2" x 1/16"
0.045" ANGLE CLIPS EACH
SIDE AND MIN. (4) #10 x 1/2"
S.M.S.

1" x 2" x 0.032" MIN. OPEN BACK
EXTRUSION

1-1/8" MIN. IN CONCRETE
VAPOR BARRIER UNDER
CONCRETE

POST TO BASE, GIRT AND POST TO BEAM DETAIL

SCALE: 3" = 1'-0"

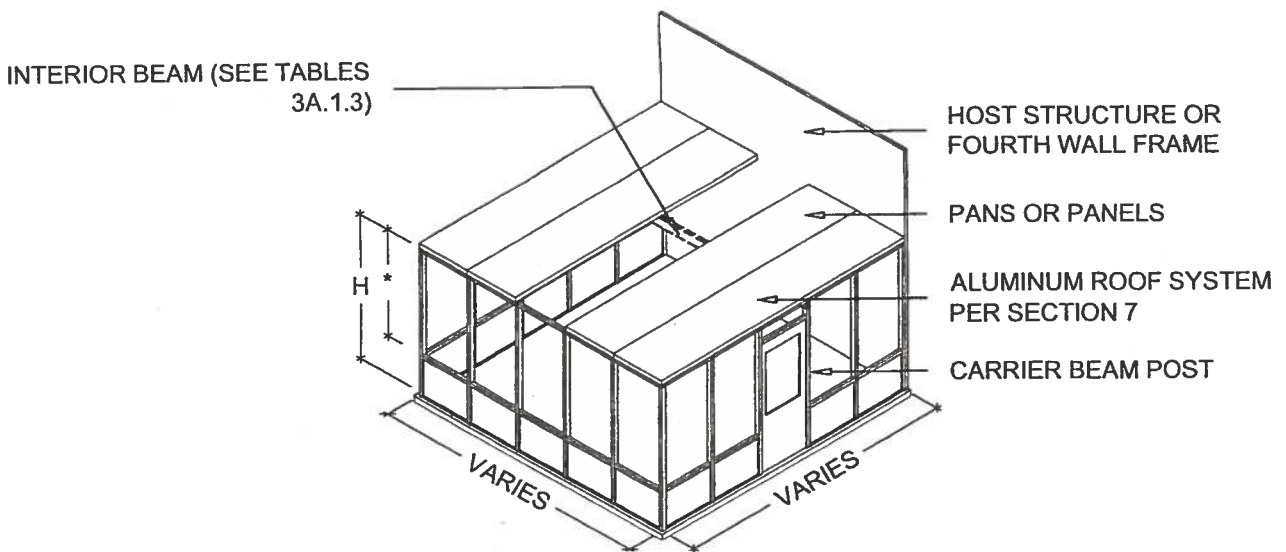
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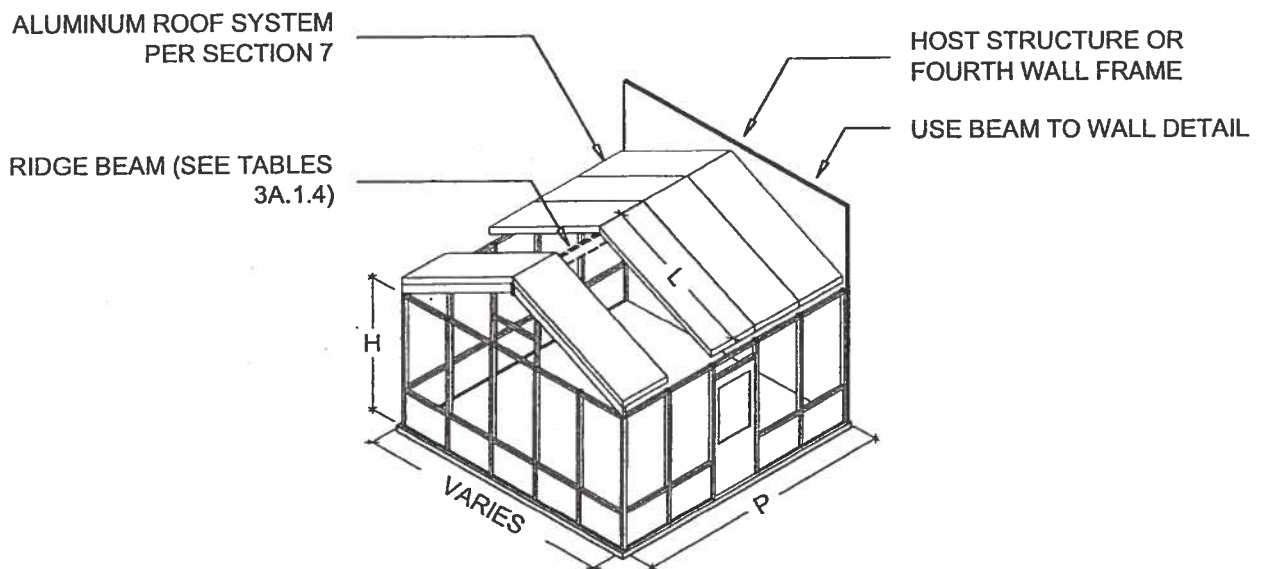
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TYPICAL SLOPED SOLID ROOF ENCLOSURE

SCALE: N.T.S.



TYPICAL GABLE SOLID ROOF ENCLOSURE

SCALE: N.T.S.

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SECTION 3A

SCREEN, ACRYLIC & VINYL ROOMS

Table 3A.3 Schedule of Post to Beam Size and Number of Thru Bolts Required
Aluminum Alloy 6063 T-6

Beam Size	Minimum Post Size	Alternate Post Size	# Thru-Bolts @ L=D+1/2"		Minimum Knee Brace*	Min. # Knee Brace Screws
			1/4"Ø	3/8"Ø		
2" x 4" x 0.050" Hollow	3" x 3" x 0.093"	2" x 3" x 0.050"	2	-	2" x 3" x 0.050"	(3) #8
Self Mating Beams						
2" x 4" x 0.040" x 0.100"	3" x 3" x 0.093"	2" x 3" x 0.050"	2	-	2" x 3" x 0.050"	(3) #8
2" x 5" x 0.050" x 0.100"	3" x 3" x 0.093"	2" x 3" x 0.050"	2	-	2" x 3" x 0.050"	(3) #8
2" x 6" x 0.050" x 0.120"	3" x 3" x 0.093"	2" x 3" x 0.050"	2	-	2" x 3" x 0.050"	(3) #10
2" x 7" x 0.055" x 0.120"	3" x 3" x 0.093"	2" x 3" x 0.050"	2	2	2" x 3" x 0.050"	(3) #10
2" x 7" x 0.055" w/ Insert	3" x 3" x 0.093"	2" x 3" x 0.050"	2	2	2" x 3" x 0.050"	(3) #10
2" x 8" x 0.072" x 0.224"	3" x 3" x 0.093"	2" x 4" x 0.050"	3	2	2" x 4" x 0.050"	(3) #12
2" x 9" x 0.072" x 0.224"	3" x 3" x 0.093"	2" x 5" x 0.050" x 0.100"	3	3	2" x 5" x 0.050" x 0.100"	(3) #14
2" x 9" x 0.082" x 0.306"	3" x 3" x 0.125"	2" x 6" x 0.050" x 0.120"	4	3	2" x 6" x 0.050" x 0.120"	(4) #14
2" x 10" x 0.092" x 0.369"	3" x 3" x 0.125"	2" x 7" x 0.055" x 0.120"	5	4	2" x 7" x 0.055" x 0.120"	(6) #14
Double Self Mating Beams						
(2) 2" x 8" x 0.072" x 0.224"	2" x 5" x 0.050" x 0.100"	-	6	4	2" x 4" x 0.044" x 0.100"	(8) #14
(2) 2" x 9" x 0.072" x 0.224"	2" x 6" x 0.050" x 0.120"	-	6	4	2" x 6" x 0.050" x 0.120"	(8) #14
(2) 2" x 9" x 0.082" x 0.306"	2" x 7" x 0.055" x 0.120"	-	8	6	2" x 6" x 0.050" x 0.120"	(8) #14
(2) 2" x 10" x 0.092" x 0.369"	2" x 8" x 0.072" x 0.224"	-	10	8	2" x 7" x 0.055" x 0.120"	(10) #14

The minimum number of thru bolts is (2)

* Minimum post / beam may be used as minimum knee brace

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SECTION 3A

SCREEN, ACRYLIC & VINYL ROOMS

Table 3A.1.3-110 Allowable Beam Spans for Miscellaneous Framing Beams for Screen, Acrylic or Vinyl Rooms
For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF
Aluminum Alloy 6063 T-6

Hollow and Single Self-Mating Beams	Tributary Load Width									
	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
	Allowable Span 'L' / bending 'b' or deflection 'd'									
2" x 4" x 0.050" Hollow	12'-2" d	11'-6" d	10'-11" d	10'-5" d	10'-0" d	9'-8" d	9'-5" d	9'-1" d	8'-11" d	8'-8" d
2" x 5" x 0.062" Hollow	15'-9" d	14'-10" d	14'-1" d	13'-6" d	12'-11" d	12'-6" d	12'-1" d	11'-9" d	11'-5" d	11'-2" d
2" x 4" x 0.044" x 0.100"	13'-8" d	12'-10" d	12'-2" d	11'-8" d	11'-2" d	10'-10" d	10'-6" d	10'-2" d	9'-11" d	9'-8" d
2" x 5" x 0.050" x 0.100"	16'-11" d	15'-11" d	15'-1" d	14'-5" d	13'-11" d	13'-5" d	12'-11" d	12'-7" d	12'-3" d	11'-11" d
2" x 6" x 0.060" x 0.120"	19'-9" d	18'-7" d	17'-8" d	16'-11" d	16'-3" d	15'-8" d	15'-2" d	14'-9" d	14'-5" d	14'-0" d
2" x 7" x 0.055" x 0.120"	22'-6" d	21'-2" d	20'-2" d	19'-3" d	18'-6" d	17'-10" d	17'-4" d	16'-10" d	16'-5" d	15'-11" d
2" x 7" x 0.055" w/ Insert	27'-3" d	25'-7" d	24'-4" d	23'-3" d	22'-4" d	21'-7" d	20'-11" d	20'-4" d	19'-9" d	19'-4" d
2" x 8" x 0.072" x 0.224"	27'-11" d	26'-3" d	24'-11" d	23'-10" d	22'-11" d	22'-2" d	21'-5" d	20'-10" d	20'-4" d	19'-10" d
2" x 9" x 0.072" x 0.224"	30'-7" d	28'-10" d	27'-4" d	26'-2" d	25'-2" d	24'-4" d	23'-7" d	22'-10" d	22'-3" d	21'-9" d
2" x 9" x 0.082" x 0.306"	31'-9" d	29'-10" d	28'-4" d	27'-2" d	26'-1" d	25'-2" d	24'-5" d	23'-8" d	23'-1" d	22'-6" d
2" x 10" x 0.092" x 0.369"	38'-2" d	35'-11" d	34'-1" d	32'-8" d	31'-5" d	30'-4" d	29'-4" d	28'-6" d	27'-9" d	27'-1" d

Double Self-Mating Beams	Tributary Load Width									
	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
	Allowable Span 'L' / bending 'b' or deflection 'd'									
2" x 8" x 0.072" x 0.224"	35'-2" d	33'-1" d	31'-5" d	30'-1" d	28'-11" d	27'-11" d	27'-0" d	26'-3" d	25'-7" d	24'-11" d
2" x 9" x 0.072" x 0.224"	38'-7" d	36'-4" d	34'-6" d	32'-11" d	31'-9" d	30'-7" d	29'-8" d	28'-10" d	28'-1" d	27'-4" d
2" x 9" x 0.082" x 0.306"	41'-1" d	38'-8" d	36'-8" d	35'-1" d	33'-9" d	32'-7" d	31'-7" d	30'-8" d	29'-10" d	29'-1" d
2" x 10" x 0.092" x 0.369"	48'-1" d	45'-3" d	42'-11" d	41'-1" d	39'-6" d	38'-2" d	36'-11" d	35'-11" d	34'-11" d	34'-1" d

Note:

1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'
2. Spans are based on 110 M.P.H. wind load plus dead load for framing.
3. Span is measured from center of 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. Spans may be interpolated.

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SECTION 3A

SCREEN, ACRYLIC & VINYL ROOMS

**Table 3A.2.1 Allowable Upright Heights, Chair Rail Spans or Header Spans
for Screen, Acrylic or Vinyl Rooms**

Aluminum Alloy 6063 T-6

For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF

Sections	Tributary Load Width 'W' = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
Allowable Height 'H' / bending 'b' or deflection 'd'										
2" x 2" x 0.044" Hollow	9'-5" b	8'-9" b	8'-2" b	7'-8" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b
2" x 2" x 0.055" Hollow	10'-3" b	9'-6" b	8'-11" b	8'-5" b	7'-11" b	7'-7" b	7'-3" b	6'-11" b	6'-9" b	6'-6" b
3" x 2" x 0.045" Hollow	11'-3" b	10'-5" b	9'-9" b	9'-3" b	8'-9" b	8'-4" b	7'-11" b	7'-8" b	7'-5" b	7'-2" b
3" x 2" x 0.070" Hollow	12'-9" d	12'-2" d	11'-7" d	10'-11" b	10'-5" b	9'-11" b	9'-6" b	9'-2" b	8'-10" b	8'-6" b
2" x 3" x 0.045" Hollow	12'-9" b	11'-9" b	11'-0" b	10'-5" b	9'-10" b	9'-5" b	8'-11" b	8'-8" b	8'-4" b	8'-1" b
2" x 4" x 0.050" Hollow	16'-3" b	15'-1" b	14'-1" b	13'-3" b	12'-7" b	12'-0" b	11'-6" b	11'-0" b	10'-8" b	10'-3" b
2" x 4" x 0.046" S.M.B.	19'-1" b	17'-8" b	16'-6" b	15'-7" b	14'-9" b	14'-1" b	13'-6" b	12'-11" b	12'-6" b	12'-1" b
2" x 5" x 0.050" S.M.B.	23'-7" b	21'-10" b	20'-5" b	19'-3" b	18'-3" b	17'-5" b	16'-8" b	16'-0" b	15'-5" b	14'-11" b
2" x 6" x 0.050" S.M.B.	26'-1" b	24'-2" b	22'-7" b	21'-3" b	20'-2" b	19'-3" b	18'-5" b	17'-9" b	17'-1" b	16'-6" b
2" x 2" x 0.044" Snap	11'-3" b	10'-5" b	9'-9" b	9'-2" b	8'-8" b	8'-3" b	7'-11" b	7'-7" b	7'-4" b	7'-1" b
2" x 3" x 0.045" Snap	14'-4" b	13'-4" b	12'-5" b	11'-9" b	11'-2" b	10'-7" b	10'-2" b	9'-9" b	9'-5" b	9'-1" b
2" x 4" x 0.045" Snap	17'-7" b	16'-3" b	15'-3" b	14'-4" b	13'-7" b	12'-11" b	12'-5" b	11'-11" b	11'-6" b	11'-1" b

For 3 second wind gust at 120 MPH velocity; using design load of 13 #/SF

Sections	Tributary Load Width 'W' = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
Allowable Height 'H' / bending 'b' or deflection 'd'										
2" x 2" x 0.044" Hollow	8'-8" b	8'-0" b	7'-6" b	7'-1" b	6'-8" b	6'-5" b	6'-1" b	5'-11" b	5'-8" b	5'-6" b
2" x 2" x 0.055" Hollow	9'-5" b	8'-9" b	8'-2" b	7'-9" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b
3" x 2" x 0.045" Hollow	10'-5" b	9'-7" b	8'-11" b	8'-6" b	8'-0" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b	6'-7" b
3" x 2" x 0.070" Hollow	12'-1" d	11'-5" b	10'-8" b	10'-1" b	9'-7" b	9'-2" b	8'-9" b	8'-5" b	8'-1" b	7'-10" b
2" x 3" x 0.045" Hollow	12'-10" b	11'-11" b	11'-2" b	10'-6" b	9'-11" b	9'-6" b	9'-1" b	8'-9" b	8'-5" b	8'-2" b
2" x 4" x 0.050" Hollow	14'-11" b	13'-10" b	12'-11" b	12'-2" b	11'-7" b	11'-0" b	10'-7" b	10'-2" b	9'-9" b	9'-5" b
2" x 4" x 0.046" S.M.B.	17'-6" b	16'-3" b	15'-2" b	14'-4" b	13'-7" b	12'-11" b	12'-5" b	11'-11" b	11'-6" b	11'-1" b
2" x 5" x 0.050" S.M.B.	21'-8" b	20'-1" b	18'-9" b	17'-9" b	16'-10" b	16'-0" b	15'-4" b	14'-9" b	14'-2" b	13'-9" b
2" x 6" x 0.050" S.M.B.	23'-11" b	22'-2" b	20'-9" b	19'-7" b	18'-7" b	17'-9" b	16'-11" b	16'-3" b	15'-8" b	15'-2" b
2" x 2" x 0.044" Snap	10'-4" b	9'-7" b	8'-11" b	8'-5" b	7'-11" b	7'-7" b	7'-4" b	7'-0" b	6'-9" b	6'-6" b
2" x 3" x 0.045" Snap	13'-3" b	12'-3" b	11'-5" b	10'-9" b	10'-3" b	9'-9" b	9'-4" b	8'-11" b	8'-8" b	8'-4" b
2" x 4" x 0.045" Snap	16'-2" b	14'-11" b	14'-0" b	13'-2" b	12'-6" b	11'-11" b	11'-5" b	10'-11" b	10'-7" b	10'-3" b

Notes:

1. 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.
2. Spans may be interpolated.

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