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***Plan Types:**

- Screen Room Sun Room Fill In
- Pool Screen/Cage (Non-Removable Screen – Designed to withstand actual Wind Speed)
- Expansion View (Non Standard)
- Car Port Patio Cover
- Pergola
- Swimming Pool (Non Standard)
- Summer Kitchen (Non Standard)
- Other _____

* Standard Non Standard Revision Commercial \$75.00 Rush Fee

* **Project Address:** 185 SW Woodleaf Court

* **City:** LAke City, FL 32024

Date: 03/11/24

* **Contractor/Company Name:** Restoration Specialists

* **Address:** 244 NW 9th Street

* **City:** Ocala, FL

* **Zip Code:** 34475

* **Phone/Fax:** 352-445-7684

* **Email:** Beldiana1@aol.com

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Engineering prepared by:



Engineer: Michael Thompson, MSc, P.E. (P.E. # 47509)

4401 Vineland Road- Suite A6 Orlando, FL 32811

Office: 888-607-0747 or 407-734-1470 Cell: 407-721-2292

Project Manager Paul Thomas 386-479-9504 Fax: 888-923-8181

Email: aluminumscreendesign@yahoo.com

Website: www.aluminumscreendesign.com CA#30930



* **Ultimate Wind Speed (mph):** 150 **Exposed Category:** C **Risk Category:** 1

Screen Room **Fill In** **Sun Room (Window Type** **Vinyl or** **Glass)**
Roof Type: **Insulated** " **Pan Roof** "
Roof Connecting to: **Gutter** **Fascia** **Block Wall** **Conventional Wall** **4th Wall** **Riser**
Front Wall: Uprights ___X___ Top Plate ___X___ Bottom Plate ___X___ Chair Rail ___X___
Side Wall: Uprights ___X___ Top Plate ___X___ Bottom Plate ___X___ Chair Rail ___X___
Roof Ridge Beam (gable style): Beams ___X___ **Kick Plate** ___

Pool Screen/Cage :

Roof Type: **Dome** **Gable** **Mansard/Hip** **Flat/Slope**
Roof Connecting to: **Gutter** **Fascia** **Block Wall** **Conventional Wall** **Riser**
Roof: Beams ²___X⁸ **Front Wall:** Uprights ²___X⁵ **Purlin** ²___X² **Chair Rail** ²___X²
Side Wall: Uprights ²___X⁵ **Chair Rail** ²___X²
Expansion View: Beams ___X___ **Post** ___X___ **Kick Plate** ___

Car Port **Patio Cover** or **Pergola** (pergola material **Aluminum** **Wood)**
Roof Type: **Insulated** " **Pan Roof** " **None (Pergola Only)**
Roof Connecting to: **Gutter** **Fascia** **Block Wall** **Conventional Wall** **4th Wall**
Beams ___X___ **Post** ___X___ **Pergola Purlins** ___X___
Roof Ridge Beam (gable style): Beams ___X___

Swimming Pool **Gunite** **Fiberglass** **Overall Deck SQ FT** _____

Summer Kitchen

Concrete:

Existing **New 4" w/6" Thickened Edge** **Pier** ___X___X___
 Ribbon Footer ___X___ **With** ___#___ **Rebar**
 Pavers with Footer ___X___ **With** ___#___ **Rebar**

Other: _____

Note: In the event that there is a conflict with the design plans and general notes and design standard, the contractor shall utilize the more stringent dimensions and member sizes prior to ordering materials, fabrication and/or construction between the plans and the general notes and design standard.

General Notes & Design Standards

(Non-Removable Pool Screen)

The following are general design standards. More stringent design standards may be noted on the plans. In the event of a conflict in plans and/or design standard dimensions and/or member sizes, the contractor must utilize the more stringent dimensions and/or member sizes prior to ordering materials, fabrication and/or construction.

Design Codes:

Florida Building Code 2023 (8th Edition)

Aluminum Design Manual 2020

ASCE 7-22

Design Loads:

Pursuant to FBC Chapters 16 & 20

Ultimate Wind: -150 MPH (FBC Table 2002.4)

Risk Category:-See attach site specific plan sheet (FBC Table 1604.5)

Exposure Category: -See attach site specific plan sheet (FBC 1609.4.3)

Additional Load requirements:

Structural members supporting screened enclosures are designed for wind in both of two orthogonal directions using the pressures given in Table 2002.4. Each primary member is also designed for a 300 pound load applied vertically downward along any 1 foot of any member, not occurring simultaneously with wind load. In addition to wind pressures, purlins is also be designed for a 200 pound load applied vertically downward along any 1 foot of any member, not occurring simultaneously with wind load.

Design Basis:

Allowable Stress Design (ASD) = Allowable Strength Design (ASD) divide by safety factor

General Requirements:

Reproductions of contract drawings by contractor in lieu of preparation of shop drawings signifies acceptance of information shown as correct and obligates himself to any expense, real or implied, arising from their use.

A change to the structural drawings due to the acceptance of alternates and/or substitutes is the responsibility of the contractor and must be submitted to the engineer for approval.

The general contractor and each subcontractor shall review the approve construction plans in its entirety and verify all existing conditions prior to the start of any work. All inconsistencies shall be reported to the designer and/or structural engineer, if needed. Should contractor construct the premises in a fashion not consistent with the plans prepared by the designer and/or structural engineer, or in any fashion, change the plans and drawing without the review and approval from the designer and/or structural engineer. Then designer and/or structural engineer shall bear no responsibility or liability for the construction of premises and accuracy of the drawings.

Foundation and Earthwork:

Applicable only when unsuitable soils are encountered.

When unsuitable soils are encountered as specified bearing strata, notify owner's representative/engineer.

Soil bearing capacity – 2,000 psf Minimum

Provide neat excavation for footing and place concrete immediately after excavation and inspection.

Pump water from footing excavation if greater than one inch.

Compact all fill to 95% ASTM D698 density.

Unit soil weight = 105 pcf

Internal angle of friction = 30 degrees

Coeff. Of friction between footing and soil = 0.5



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Structural Aluminum:

Conform to latest edition of Florida Building Code and Aluminum Design Manual standard practice for aluminum design.

All aluminum shall be 6005-T5 (E= 10,000 ksi; Fy = 35 ksi) with a minimum wall thickness of 0.046”

Splicing prohibited without prior approval as to location and type.

Burning of holes in aluminum members is prohibited. Any member with burned holes must be replaced.

Aluminum Protection:

Shall be pursuant FBC 2003.8.4. Aluminum surfaces in contact with dissimilar materials, lime-mortar, concrete, or other masonry materials, shall be protected with powder coated or ESP paint or alkali-resistant coatings, such as heavy-bodied bituminous paint or water-white methacrylate lacquer.

Screws:

Aluminum self-tapping screws shall conform to ASME B18.6.4 specification.

Self –tapping screws shall meet the requirements of ADM J.5

Maximum fastener spacing shall not exceed (3+20t) where “t” is the member thickness in inches.

For roofing and siding connection, use minimum #12 screws for end and side laps spaced at 12” max for side lap and end lap fasteners shall be no more than 2” from the end of overlapping sheets.

For bottom plate and column base, secure with ¼” tapcons a minimum embedment of 1 1/8” and 2 ¼” respectively into concrete footer.

Bolts:

Bolts and other fasteners shall be aluminum, stainless steel, hot-dip or electro-galvanized steel. Double cadmium plated steel bolts may also be used. Bolt holes diameter shall not exceed 1/16” larger than the bolt diameter and shall be spaced at a minimum of 2.5 times the bolt diameter with minimum edge distance of 1.5 times the bolt diameter.

Bolts shall meet the requirements of ADM J.3

Chair Rails, Purlins & Wind Brace:

Chair rails, purlins and wind brace shall conform with the below maximum span length. If the event contractor’s specific site plan conflict with the below recommended length, the contractor shall utilize the more stringent dimensions and member sizes prior to ordering materials, fabrication and/or construction. Screen mesh cover areas shall be continuously secure to each top rail, bottom rail, chair rail, upright, beam and purlin.

Wind Speed = 150 MPH

2 x 2 Chair Rail = 4’-9” 2 x 2 Purlins = 6’-6” 2 x 2 Wind Brace = 4’-3” 2 x 3 (0.125) Wind Brace = 8’-0”
 2 x 3 Chair Rail = 6’-9” 2 x 3 Purlins = 6’-9” 2 x 3 Wind Brace = 6’-9” 2 x 4 Wind Brace = 8’-0”

Concrete:

Conform to ACI 318, latest edition and ACI 301

Compressive Ultimate Strength (Minimum at 28 days) shall be 3000 psi

Exposed chamfer edges shall be ¾”

Reinforcing Steel:

Conform to ACI 318 and 315, Latest edition

All reinforcement steel shall be ASTM A615 Grade 60.

Smooth dowels & ties shall be ASTM A185

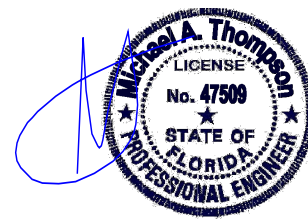
Welded Wire Fabric shall be ASTM A185 or A82 (Flat sheet).

Deformed bar anchors shall be ASTM A496, Grade 70

Cover: Footing 3”

Washer:

Washers shall be used under bolt heads and under nuts.



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Hole Alignment:

Poor matching holes must be rejected. Contractor shall prevent holes from drifting and distort the metal. All chips and foreign matter between contacting surfaces shall be removed before assembly.

Cables:

Contractor shall provide a minimum 1/8” diameter stainless steel cable tie down at side and rear walls of pool screen enclosure. Contractor shall secure cable to top of column located at each corner and where there is a difference in column height locations. In addition, cables shall be spaced to provide wall support not exceeding 227.5 ft² with bottom each end of cables secure to concrete slab with a minimum 3”ASTM A-36 steel clip with 2-1 1/2” x 1/4” tapcons or equal.

Beams & Uprights:

In the event of a conflict with the values in this table and the site specific plan, the contractor must utilize the more stringent dimensions and/or member sizes between the site specific plan and the below applicable span limitations prior to ordering materials, fabrication and/or construction.

150 MPH			
PRIMARY ROOF MEMBERS-POOL CAGE ENCLOSURES			
SIZE	Roof Span *Maximum Beam Spacing = 6'-0"	Roof Span *Maximum Beam Spacing = 6'-8"	Roof Span *Maximum Beam Spacing = 7'-2"
2 X 4	14'-3"	13'-3"	10'-6"
2 X 5	19'-0"	18'-0"	15'-6"
2 X 6	22'-3"	20'-0"	18'-9"
2 X 7	24'-0"	21'-8"	21'-6"
2 X 8	28'-0"	26'-9"	26'-6"
2 X 9	30'-0"	28'-5"	28'-0"
2 X 10	33'-6"	31'-11"	31'-6"

Upright -Pool Cage Enclosures				
Upright	150 MPH			
SIZE	Height			
2 X 4	10'-3"			
2 X 5	12'-3"			
2 X 6	13'-3"			
2 X 7	14'-6"			
2 X 8	15'-6"			
2 X 9	16'-6"			

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Knee Bracing:

Contractor shall provide knee bracing on 45 degree angle pursuant the attach detail sheet that specified size and length requirements. Knee bracing on upright above super gutter intersection shall be connected to upright no more than 6” above the super gutter. Knee brace size shall be a minimum of 2 x 2 for beam span of 15’ max; 2 x 3 for 30’ max; 2 x 4 for beam span greater than 30’.

Purlin:

Contractor is required to install purlins spaced to align with column spacing; however, spacing between purlins shall not exceed 7’-2”.

Header Beam:

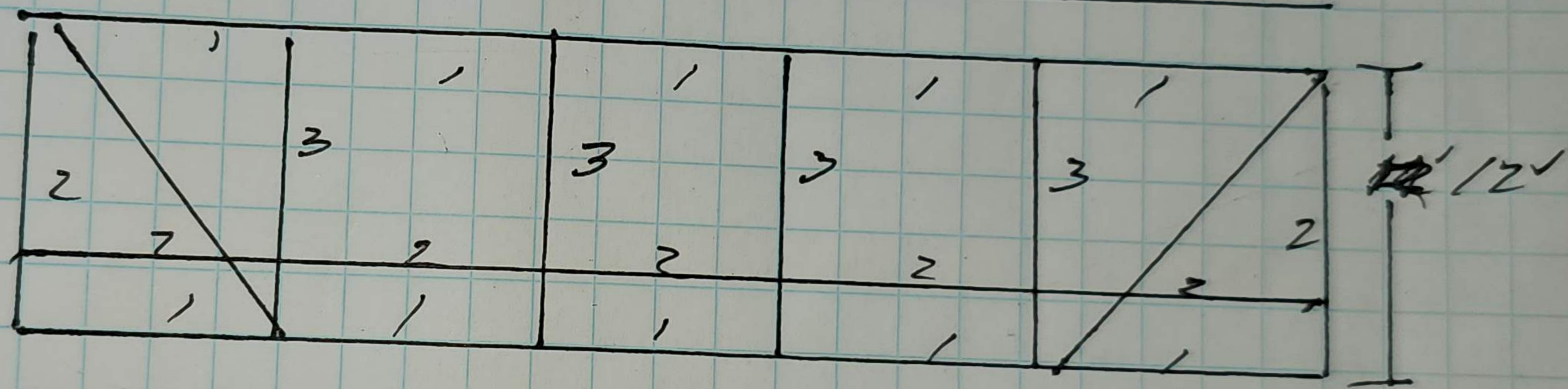
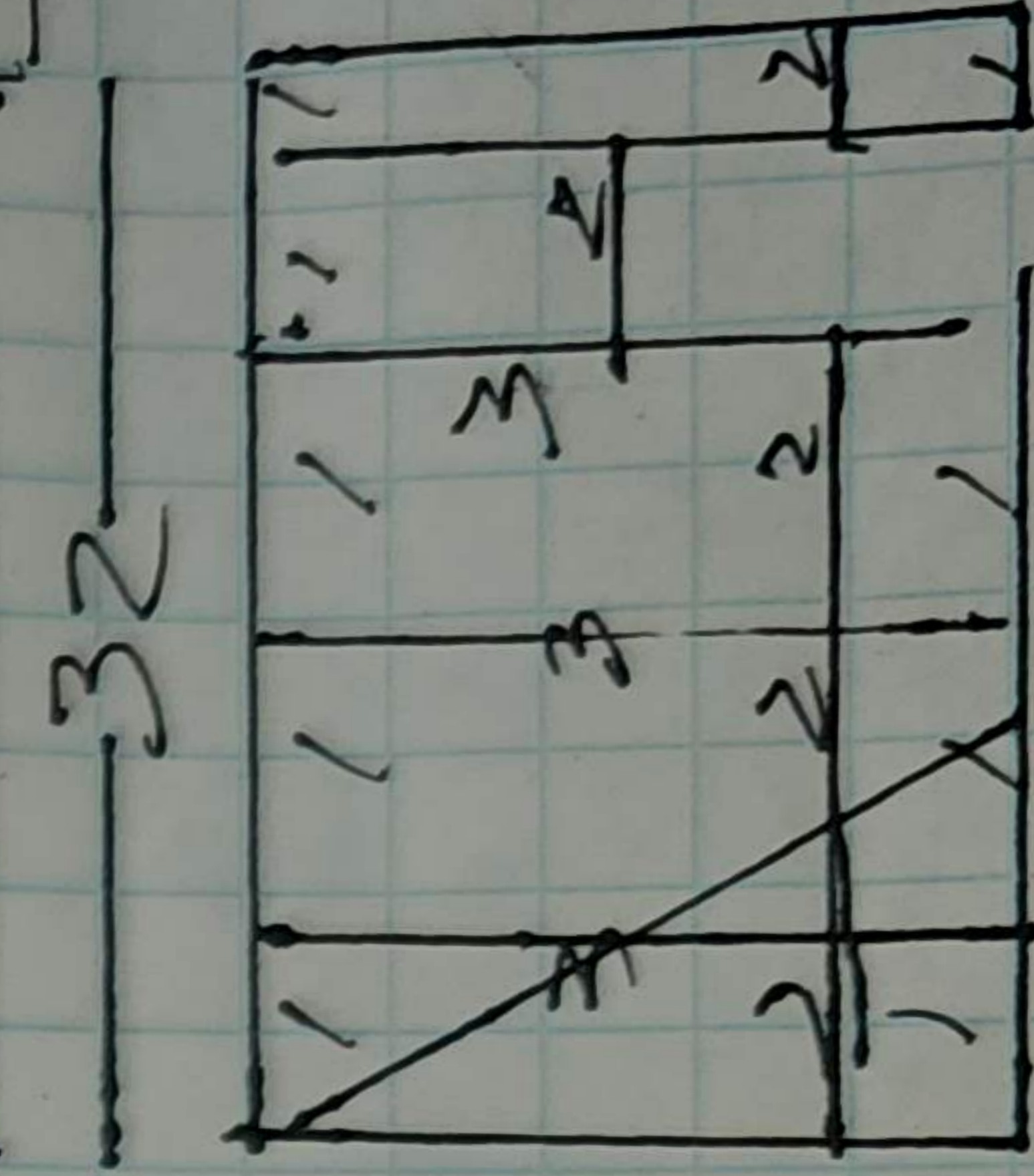
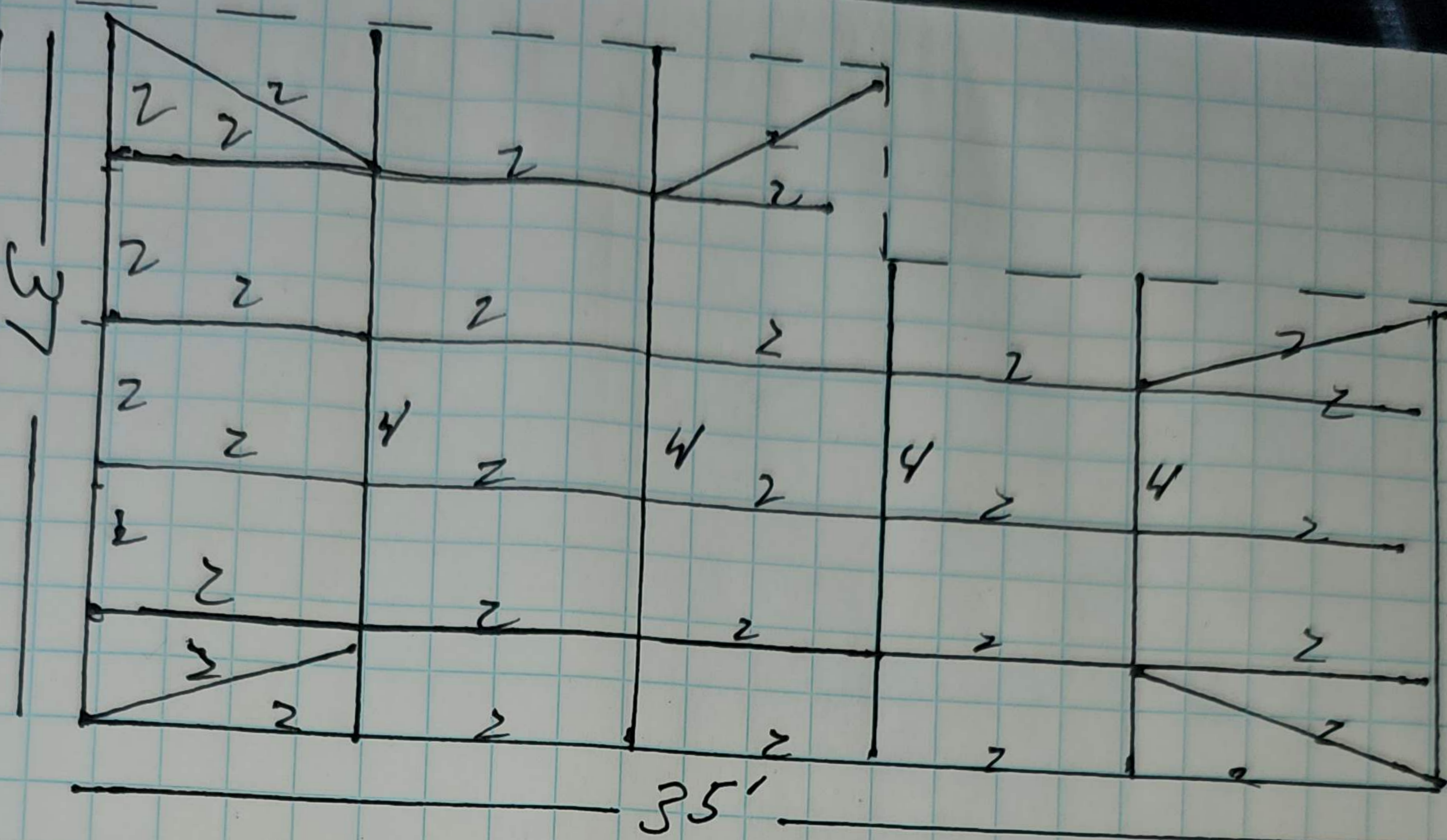
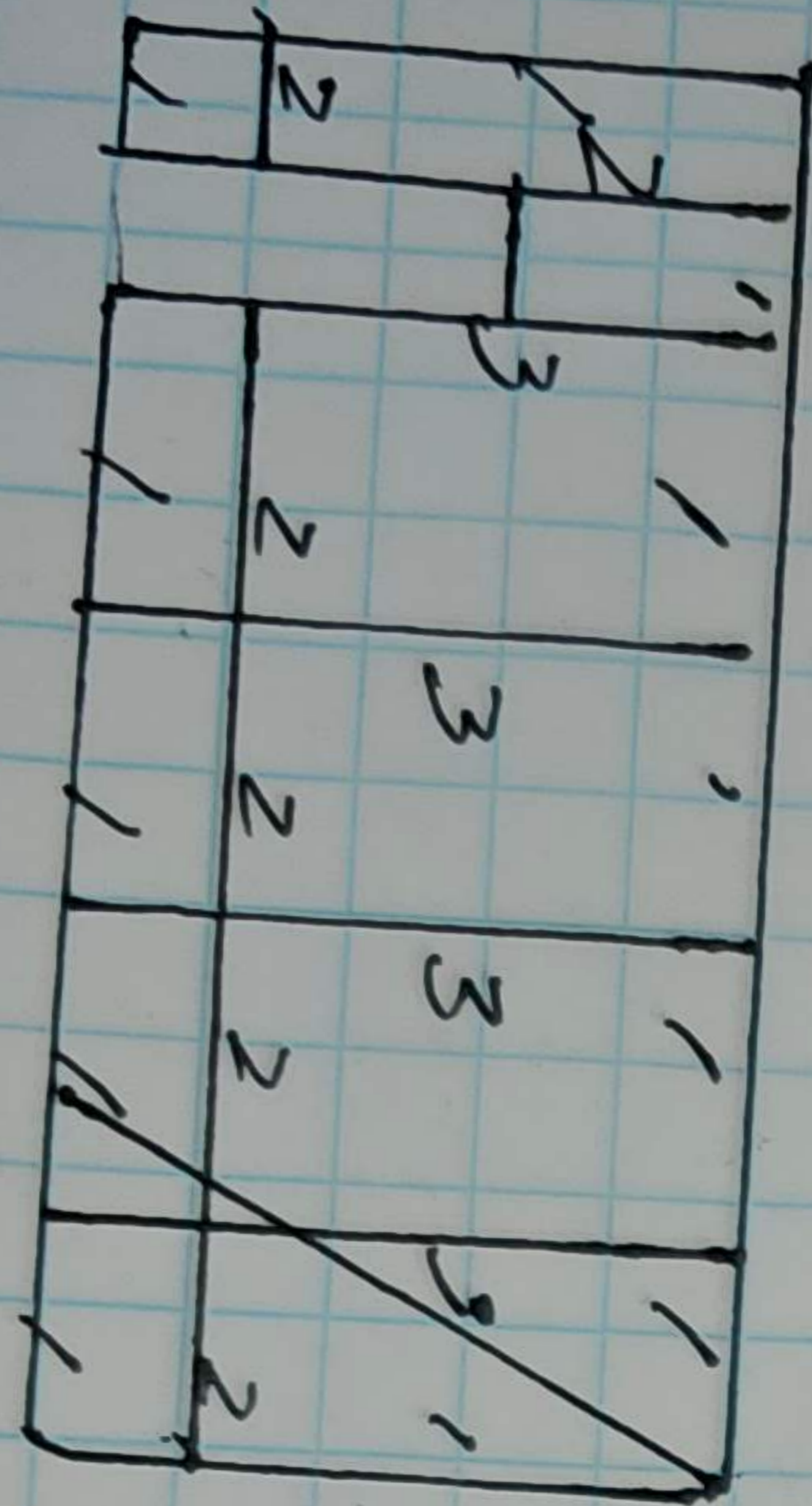
Contractor is required to install a minimum 2 x 7 header beam supported with 3 x 3 column space at 10 feet (max) with a 2’ x 2’ x 1’-6” concrete footer with 3#5 each way when screen enclosed is required to be attached super gutter at the interface of the insulated roof panel. Contractor is required to install insulated roof covering pursuant to the Florida product approval specification (45 psf).

Intermediate Girts:

Contractor is required to install intermediate chair rails/girts spaced at mid-span between the chair rails and top rail or 6'-0" max on center when column height exceeds 11 feet. Contractor is also required to install one additional intermediate chair rail/girt to be located 3 feet below the top rail when column height exceeds 14 feet.

Edge Distance:

Contractor is required to install uprights to provide a 2” minimum clearance from edge of slab and/or footer.



In the event of a conflict in member sizes shown on the plans and the general notes, the contractor must utilize the more stringent member size requirements.
 Engineer: Michael Thompson, P.E. 47509/CA30930

1 = 1x2

2 = 2x2

3 = 2x5

4 = 2x8

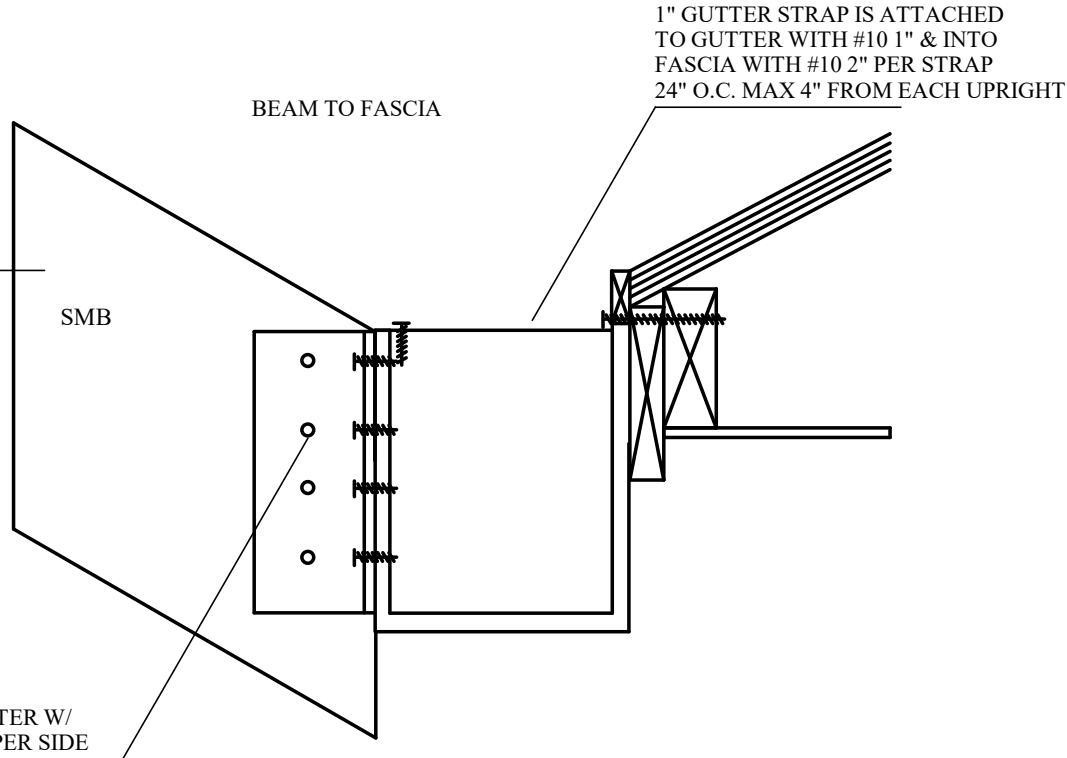


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Owner - GRACE white
 Contractor - Restoration Specialists
 G.C. # CGC042165
 185 SW wood leaf at
 LAKE CITY FL 32024

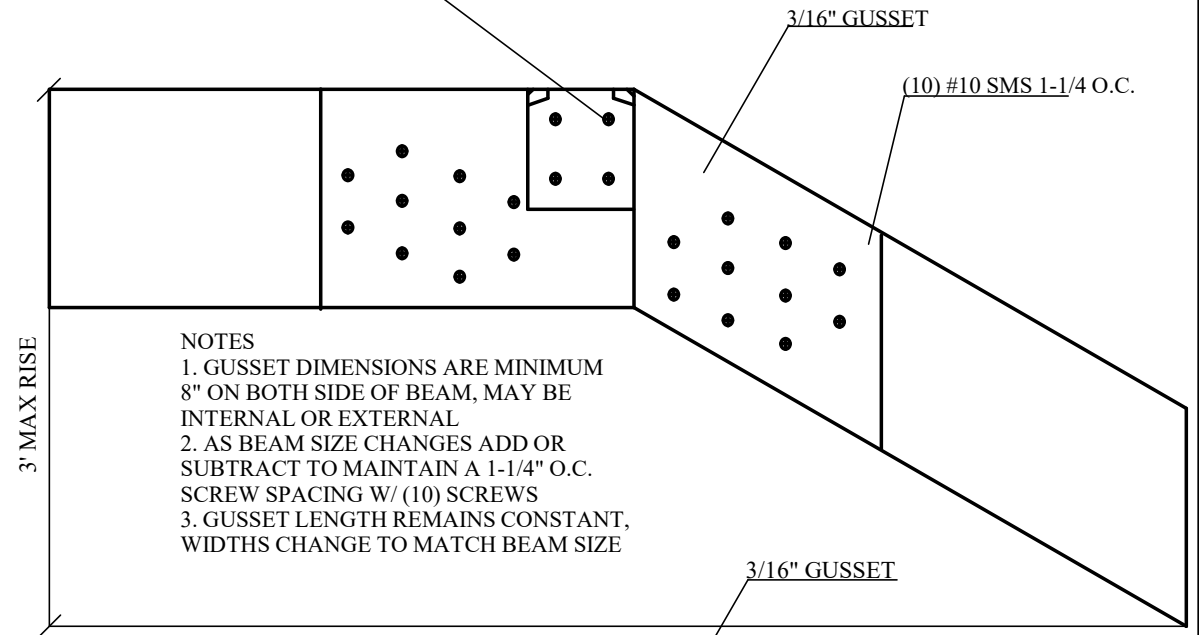
ALUMINUM SCREEN DESIGN

SEE GENERAL NOTES & DESIGN STANDARD FOR ADDITIONAL INFORMATION (TYP.)



BEAM IS ATTACHED TO GUTTER W/ 2X2X1/8" ANGLE & (4) #10 1" PER SIDE

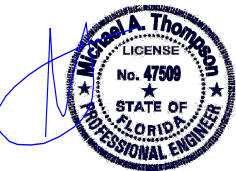
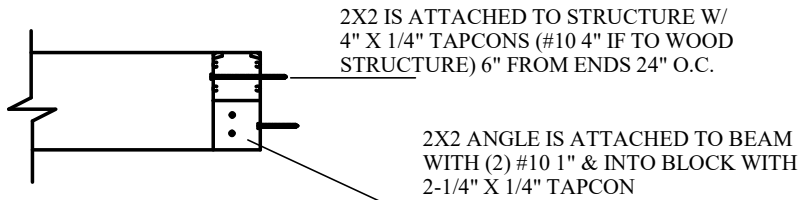
PURLINS ATTACHED TO BEAM W/ (3) #10 2" SMS, PLACE WASHER UNDER SCREW IN GUSSET CORNER



3' MAX RISE

NOTES
 1. GUSSET DIMENSIONS ARE MINIMUM 8" ON BOTH SIDE OF BEAM, MAY BE INTERNAL OR EXTERNAL
 2. AS BEAM SIZE CHANGES ADD OR SUBTRACT TO MAINTAIN A 1-1/4" O.C. SCREW SPACING W/ (10) SCREWS
 3. GUSSET LENGTH REMAINS CONSTANT, WIDTHS CHANGE TO MATCH BEAM SIZE

BEAM TO WALL



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DESIGN STATEMENT

METAL IS .046 THICKNESS OR GREATER, ALLOY IS 6005-T5
 ALL TAPCONS SHALL PROVIDE MINIMUM OF 1 1/8" CONCRETE EMBEDMENT DEPTH

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE TO MEET THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE FOR OPEN AND SEMI-OPEN STRUCTURES AND SHALL WITH STAND ULTIMATE WIND SPEEDS OF 150 MPH (FOR 3 SECOND GUSTS) NOMINAL SPEED 117 MPH UP TO A 15FT ROOF HEIGHT, FACTOR OF 1.0, AND EXPOSURE C, RISK CATEGORY 1. CONTRACTOR SHALL FIELD VERIFY ALL PLANS DIMENSIONS PRIOR TO MATERIAL PURCHASE, FABRICATION AND CONSTRUCTION CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD SITE CONDITIONS DIFFER FROM CONSTRUCTION PLANS

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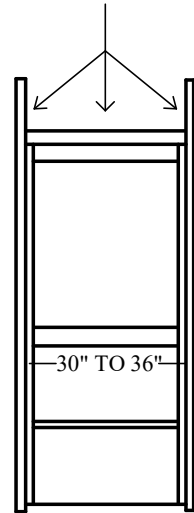
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 4401 VINELAND ROAD
 SUITE A6
 ORLANDO, FL 32811
 P.E. # 47509
 CA#30930

ALUMINUM SCREEN DESIGN



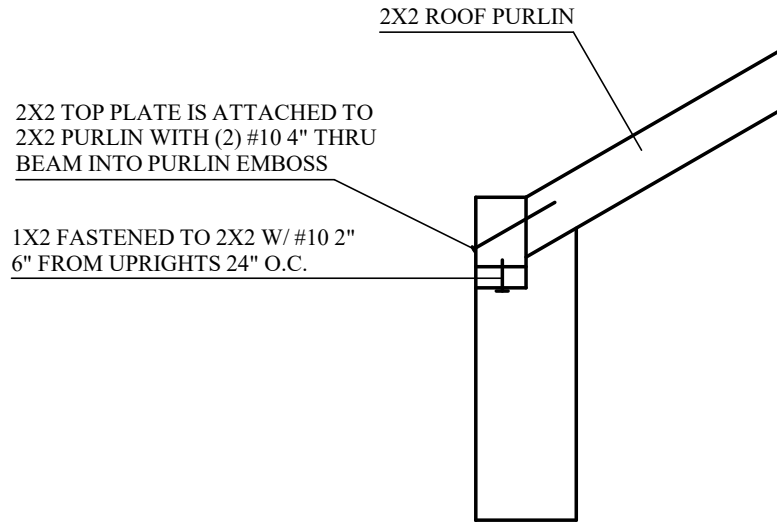
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DOOR FULL Z OR
DOOR JAM
STANDARD
2X3 POST OR DOOR JAMB

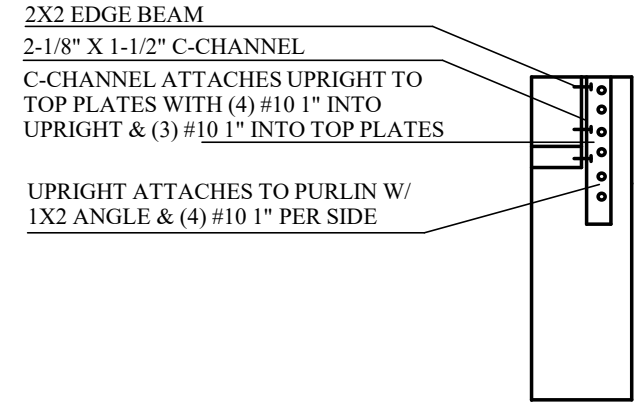


EACH DOOR IS SCREWED INTO UPRIGHTS
WITH #10 1" SCREWS 24" O.C.

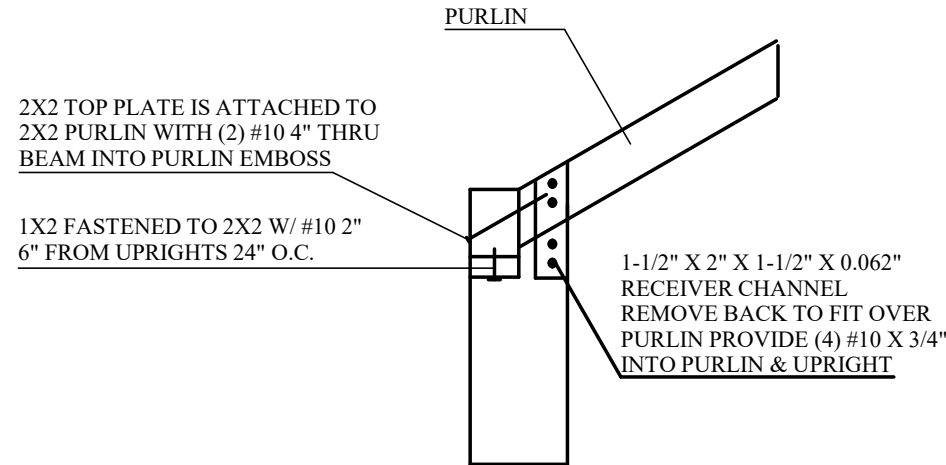
SIDE WALL CONNECTION DETAILS WHEN
PURLIN DOESNT HIT POST



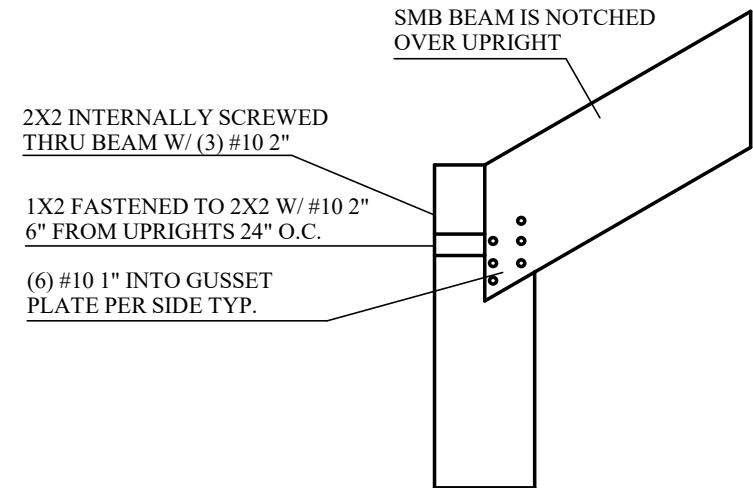
SIDE WALL CONNECTION DETAILS WHEN
PURLIN DOESNT HIT POST



SLOPED PURLIN CONNECTION DETAIL



FRONT WALL TO BEAM



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FAX: 407-734-1790

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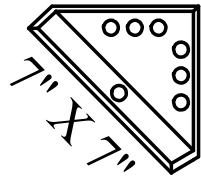
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P.E. # 47509
CA#30930

ALUMINUM SCREEN DESIGN

CABLE DETAIL

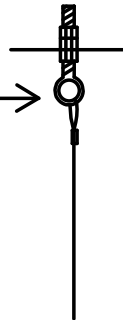
K BRACING DETAIL

CABLE DETAIL

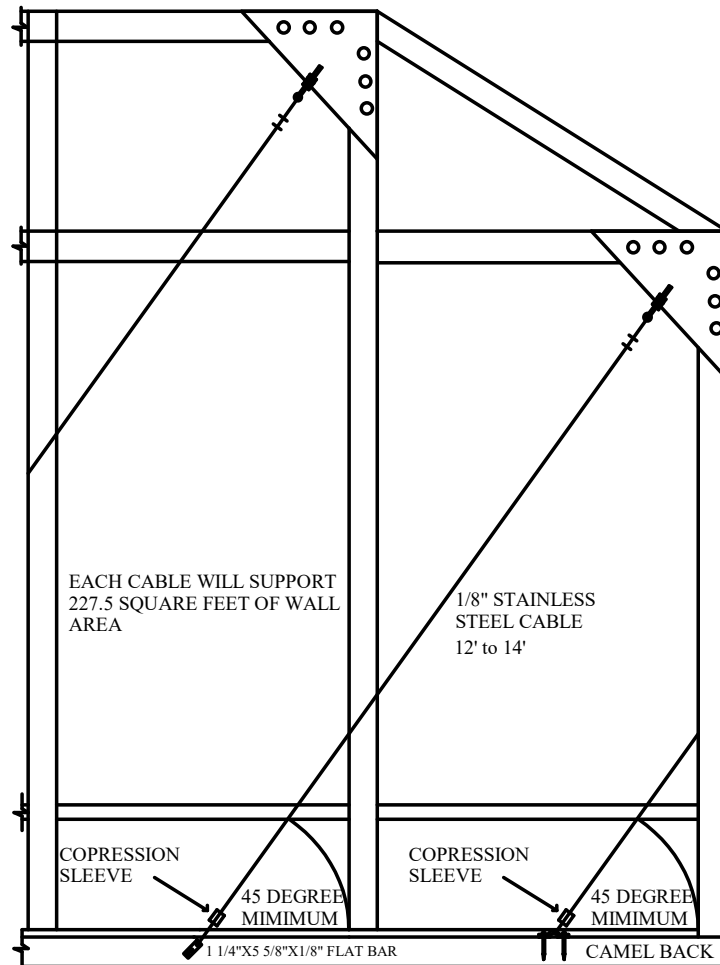
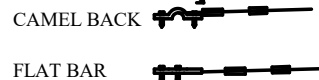


1/8" THICK ANGLE BRACKET ATTACHED TO UPRITE AND GIRT WITH (6) #10 1"

5/16" EYE BOLT WELDED CLOSED WITH DOUBLE NUTS COMPRESSION SLEEVE

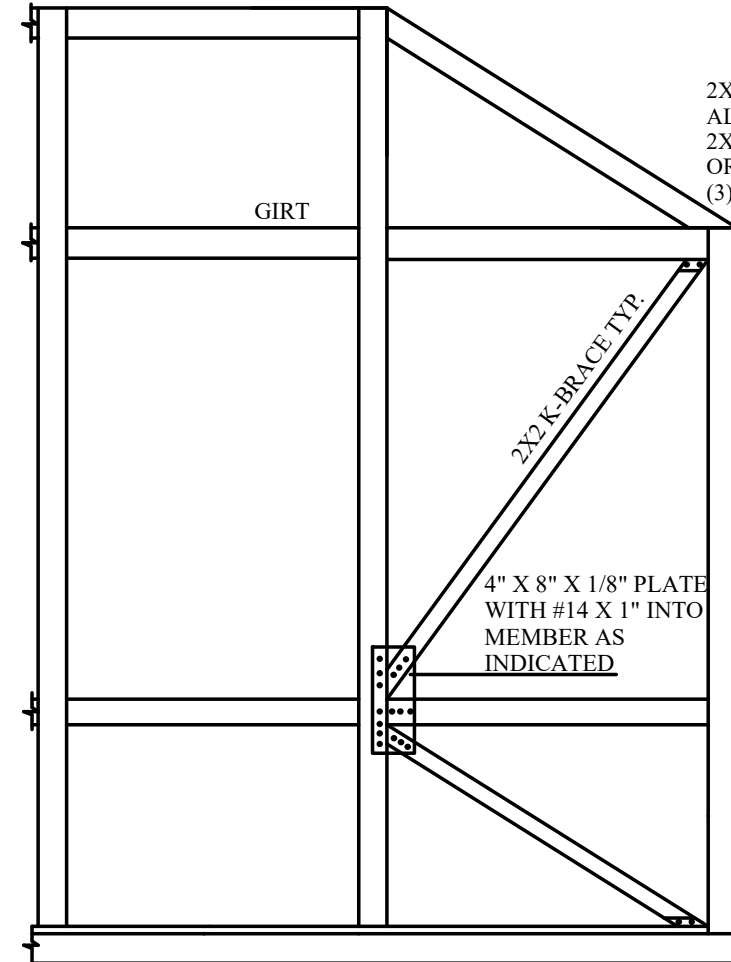


SIDE VIEW
COMPRESSION SLEEVE
3" A.S.T.M. A-36 STEEL CLIP WITH (2) 2-1/4" X 1/4" TAPCONS



1 1/4" X 5 5/8" X 1/8" FLAT BAR
ANCHORED INTO CONCRETE 3/4" FROM TOP AND BOTTOM CONCRETE WITH (2) 2-1/4" X 1/4" TAPCONS OR 3" A.S.T.M. A-36 STEEL CLIP WITH (2) 5" X 1/4" TAPCONS THRU PAVERS TO FOOTER

OR



2X2 K BRACE IS ATTACHED TO ALUMINUM STRUCTURE WITH 2X2" C CHANNEL & (6) #10 1" OR BLIND SCREWED WITH (3) #10 2" PER END



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IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE HOMEOWNER THAT THE CABLES AND CABLE ATTACHMENT MUST BE INSPECTED BY THE HOMEOWNER AT LEAST TWICE A YEAR TO ELIMINATE ANY DEFICIENCIES ASSOCIATED WITH TENSION SLACK AND/OR CORROSION AND IF NECESSARY TO MAKE CORRECTIVE REPAIRS TO MAINTAIN THE CABLE FULL TENSION (NO SLACK) DESIGNED FOR STRUCTURAL LATERAL STABILITY

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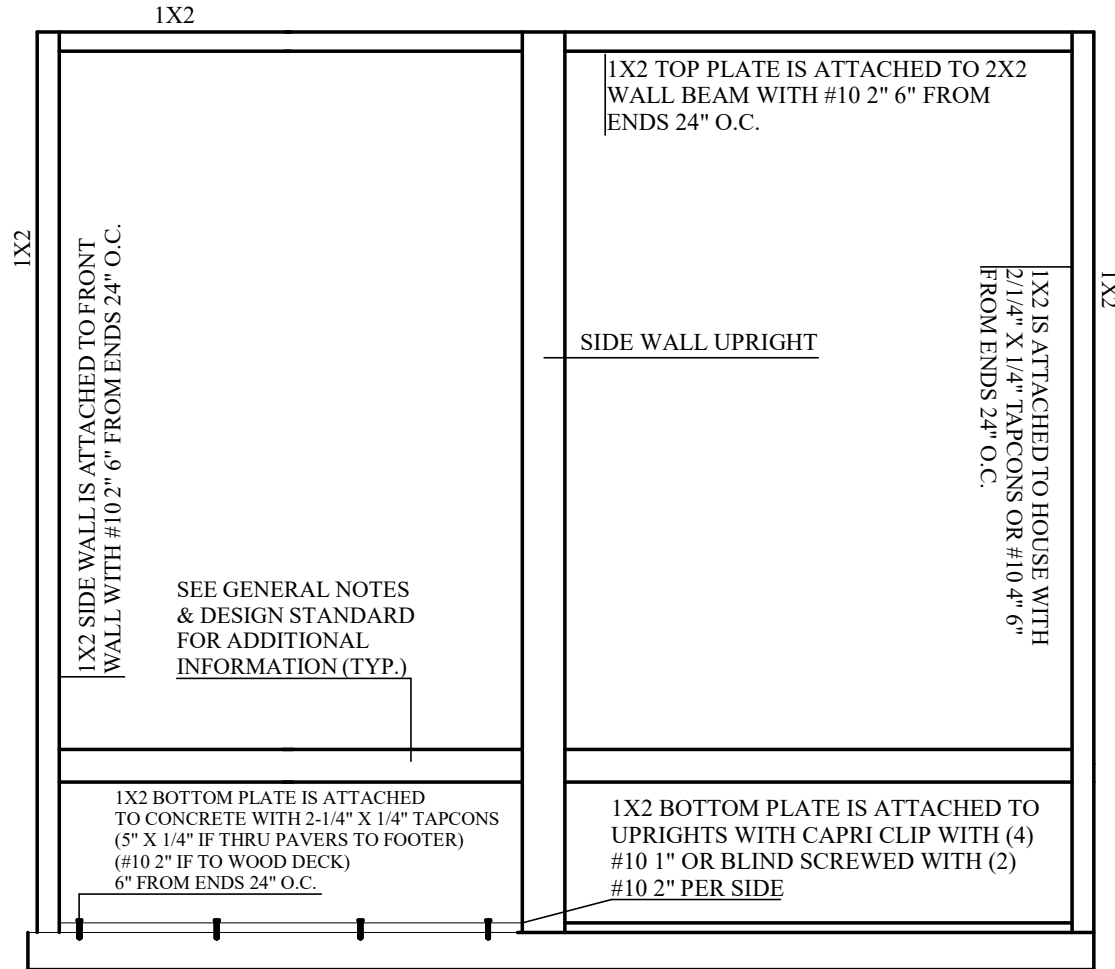
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ALUMINUM SCREEN DESIGN

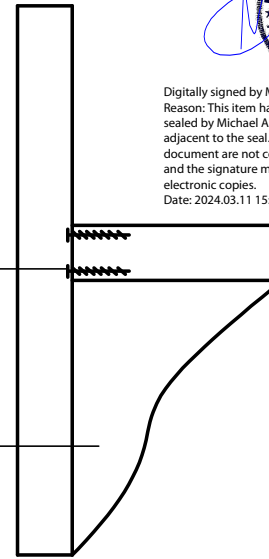
SIDE WALL DETAIL



CHAIR RAIL & KICK PLATE DETAIL

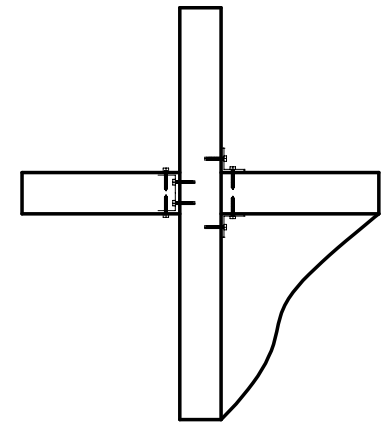
CHAIR RAILS & GIRTS ARE ATTACHED W/ INTERNAL CLIPS W/ (4) #10 1", CAPRI CLIPPED, W/ RECIEVING CHANNEL & (6) #10 1" W/ (8) #10 1", OR BLIND SCREWED W/ (3) #10 2"

KICK PLATE IS ATTACHED TO STRUCTURE WITH #10 1" 6" FROM ENDS 18" O.C. (OPTIONAL)

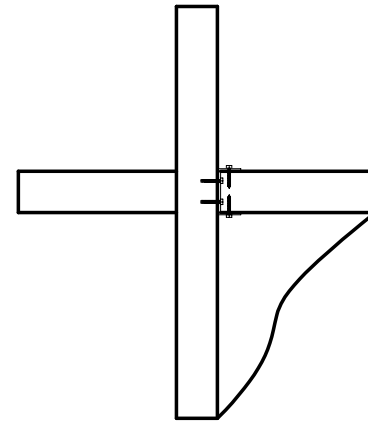


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Date: 2024.03.11 15:33:47 -04'00'

BLIND CLIP & CAPRI CLIP DETAILS



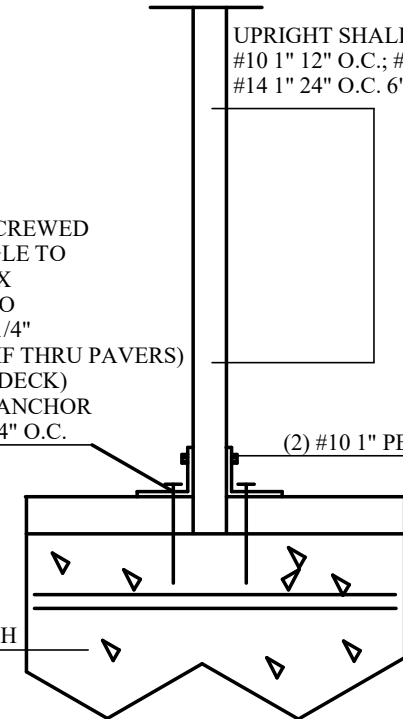
RECIEVING CHANNEL CLIP DETAILS



1X2 INTERNALLY SCREWED THRU 2X2X1/8" ANGLE TO UPRIGHT W/ (2) #10 X 1-1/2" FASTEN 1X2 TO CONCRETE W/ 3" X 1/4" (5" X 1/4" TAPCONS IF THRU PAVERS) (#10 2" IF TO WOOD DECK) SCREW CONCRETE ANCHOR 6" FROM UPRIGHT 24" O.C.

MIN 4" SLAB 2500 PSI CONCRETE W/ FIBERMESH

SELF MATING UPRIGHT DETAILS



UPRIGHT SHALL BE STITCHED #10 1" 12" O.C.; #12 1" 18" O.C.; #14 1" 24" O.C. 6" FROM ENDS

(2) #10 1" PER SIDE

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DESIGN STATEMENT

METAL IS .046 THICKNESS OR GREATER, ALLOY IS 6005-T5
ALL TAPCONS SHALL PROVIDE MINIMUM OF 1 1/8" CONCRETE EMBEDMENT DEPTH

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE TO MEET THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE FOR OPEN AND SEMI-OPEN STRUCTURES AND SHALL WITH STAND ULTIMATE WIND SPEEDS OF 150 MPH (FOR 3 SECOND GUSTS) NOMINAL SPEED 117 MPH UP TO A 15FT ROOF HEIGHT, FACTOR OF 1.0, AND EXPOSURE C, RISK CATEGORY 1. CONTRACTOR SHALL FIELD VERIFY ALL PLANS DIMENSIONS PRIOR TO MATERIAL PURCHASE, FABRICATION AND CONSTRUCTION CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD SITE CONDITIONS DIFFER FROM CONSTRUCTION PLANS

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