

APPROVED PRODUCTS LIST			
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	TRI-COUNTY METALS 26 Gauge AG Panel	N/A *
STRUCTURAL COMPONENTS	STRUCTURAL WALL	TRI-COUNTY METALS 26 Gauge AG Panel	N/A *
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R4 08/10/24
EXTERIOR DOORS	ROLL-UP	ASTA DOOR CORPORATION SERIES 203 WINDLOCK COMMERCIAL SHEET DOOR	FL8888.1-R7 11/06/23
WINDOWS	SINGLE HUNG	CGI WINDOWS AND DOORS MODEL SH 4100A	FL23358.2-R9 08/12/25

METAL FRAMING PREFABRICATED BY
BLUESTONE CARPORTS AND GARAGES, LLC
380 ALTON HALL ROAD
CAIRO, GEORGIA 39828

THESE ENGINEERING DRAWINGS ARE THE PROPERTY OF BECHTOL ENGINEERING & TESTING, INC. AND BLUESTONE CARPORTS AND GARAGES, LLC. THESE DRAWING MAY NOT BE REPRODUCED WITHOUT THE WRITTEN CONSENT OF BECHTOL ENGINEERING & TESTING, INC., AND BLUESTONE CARPORTS AND GARAGES, LLC.

THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1609 OF THE FLORIDA BUILDING CODE, EIGHTH EDITION (2023).

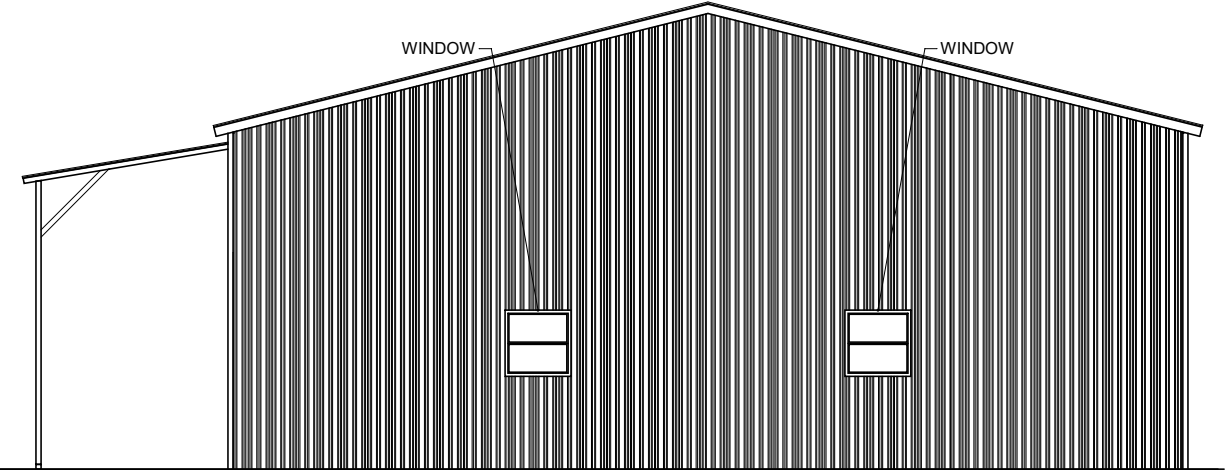
* PLEASE SEE ATTACHED FOR INSTALLATION DETAILS

GENERAL NOTES:

- THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM, COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SET-BACKS, FINISH FLOOR ELEVATION AND SLOPE, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
- THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITY/STORAGE BUILDINGS, CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. OWNER UNDERSTANDS AND ACKNOWLEDGES THE RISK OF ADDING IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, INCLUDING DOORS, WINDOWS, SOLAR PANELS, LIGHTING, INTERIOR WALL(S), CEILING FIXTURES, OR OTHER COMPONENTS NOT PROVIDED AND INSTALLED BY BLUESTONE CARPORTS AND GARAGES, LLC, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE, OWNER UNDERSTANDS AND ACKNOWLEDGES THAT BECHTOL ENGINEERING AND TESTING, INC., SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGES OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS AND / OR IMPROVEMENTS.
- ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL OR ZINC PLATED.
- ALL COMPONENTS AND CLADDING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ALL FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/4" SELF DRILLING SCREWS **WITHOUT CONTROL SEAL WASHER**. ALL SHOP FRAMING CONNECTIONS SHALL BE WELDED.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. CONCRETE SLAB FOUNDATIONS SHALL BE REINFORCED WITH 6x6 - W1.4xW1.4 WELDED WIRE FABRIC COMPLYING WITH ASTM A 185, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1116.
- CONCRETE ANCHORS SHALL BE TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT .
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND GABLE ENDS.
- SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - RESIDENTIAL, AND SECTION 1816.1 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - BUILDING. SOIL LOAD BEARING PRESSURE OF 2000PSF IS ASSUMED.
- 14 GA FRAMING: 2-1/2" x 2-1/2" TUBE STEEL (TS) WITH 2-1/4" x 2-1/4" TS NIPPLES.
12 GA FRAMING: 2-1/4" x 2-1/4" TS WITH 2" x 2" TS NIPPLES.
- FOR ROOF SLOPES LESS THAN 7 DEGREES, SEAL ALL PANEL OVERLAPS WITH BUTYL TAPE OR OTHER SUITABLE SEALANT.
- FOR CONTINUOUS REINFORCING, MINIMUM BAR OVERLAP SHALL BE 40 BARS DIAMETERS (25" FOR #5 REBAR).
- TORNADO VELOCITY COMPLIANCE IS NOT REQUIRED FOR RISK I OR RISK II STRUCTURES PER SECTION R301.2.1.1 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023)- RESIDENTIAL AND SECTION 1603.1.4 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - BUILDING, AND ASCE 7-22

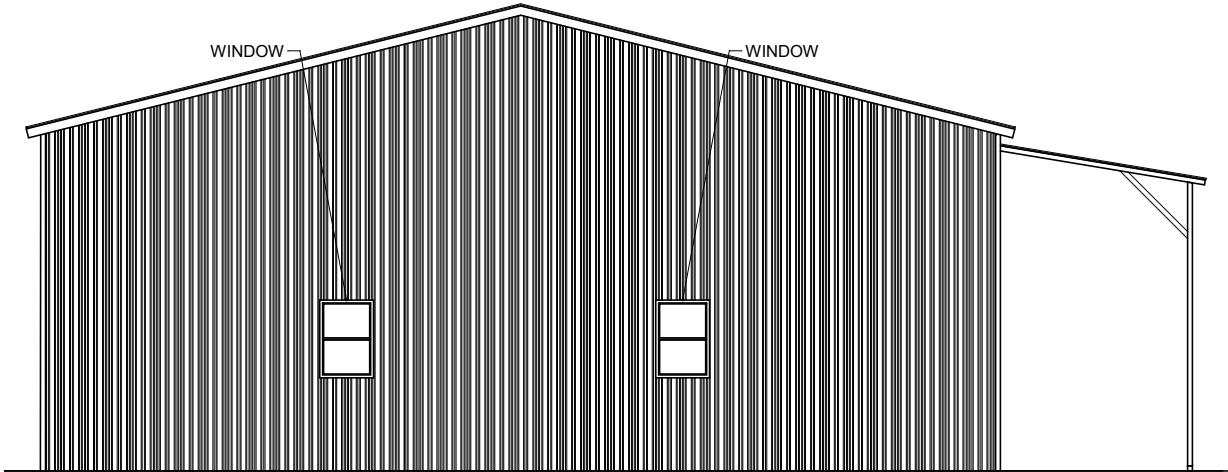
OCCUPANCY GROUP:	U
CONSTRUCTION TYPE:	II-B
RISK CATEGORY:	I
BUILDING ENCLOSURE TYPE:	PARTIALLY ENCLOSED
WIND EXPOSURE CATEGORY:	C
ULTIMATE WIND SPEED (MPH):	120
NOMINAL DESIGN WIND SPEED (MPH):	93
MEAN ROOF HEIGHT (FEET):	16.5
ROOF ANGLE (DEGREES):	14.0
INTERNAL PRESSURE COEFFICIENT:	+0.55 / -0.55
DESIGN PRESSURES (PSF):	
ROOF:	
ZONE 1:	+16.2 / -30.3
ZONE 2:	+16.2 / -38.4
ZONE 3:	+16.2 / -47.6
WALLS:	
ZONE 4:	+23.5 / -25.1
ZONE 5:	+23.5 / -28.2
SWINGING DOOR:	+24.4 / -30.0
ROLL-UP DOOR:	+21.9 / -23.5
WINDOW:	+25.2 / -26.9

NOTE: 14 GA FRAMING



FRONT ELEVATION

SCALE: 1/8" = 1'



REAR ELEVATION

SCALE: 1/8" = 1'

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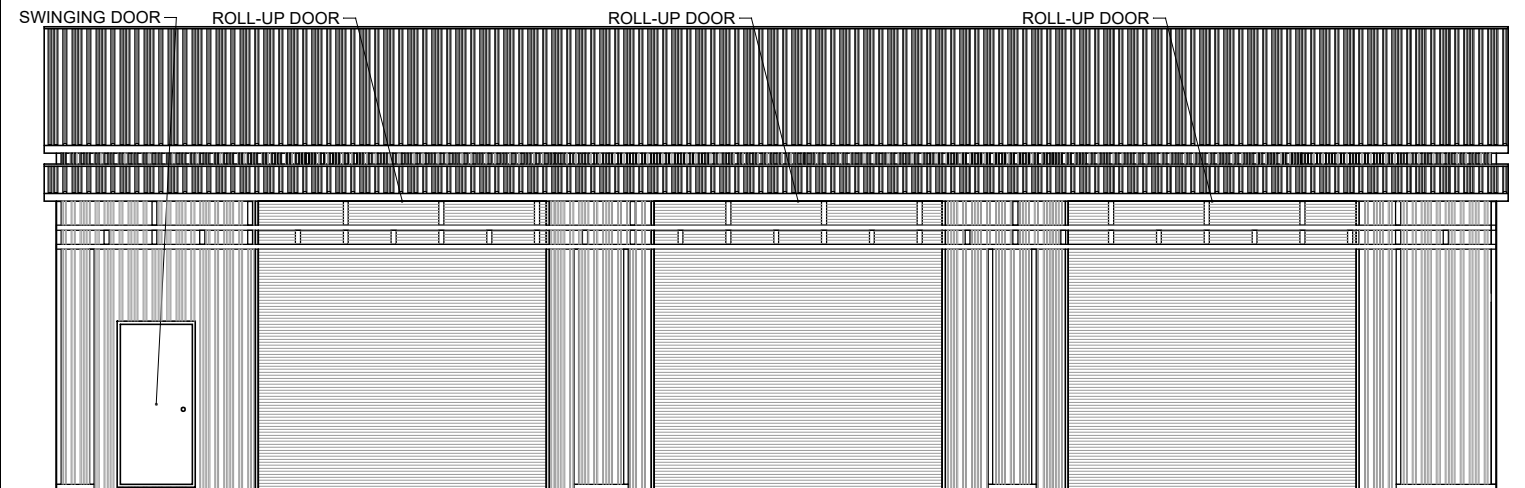
Israel De La Rosa
2026.05.04
14:07:56 -04'00'

BECHTOL ENGINEERING AND TESTING, INC.

PROPOSED UTILITY STRUCTURE
155 SOUTHWEST COLES COURT
FORT WHITE, COLUMBIA COUNTY, FLORIDA

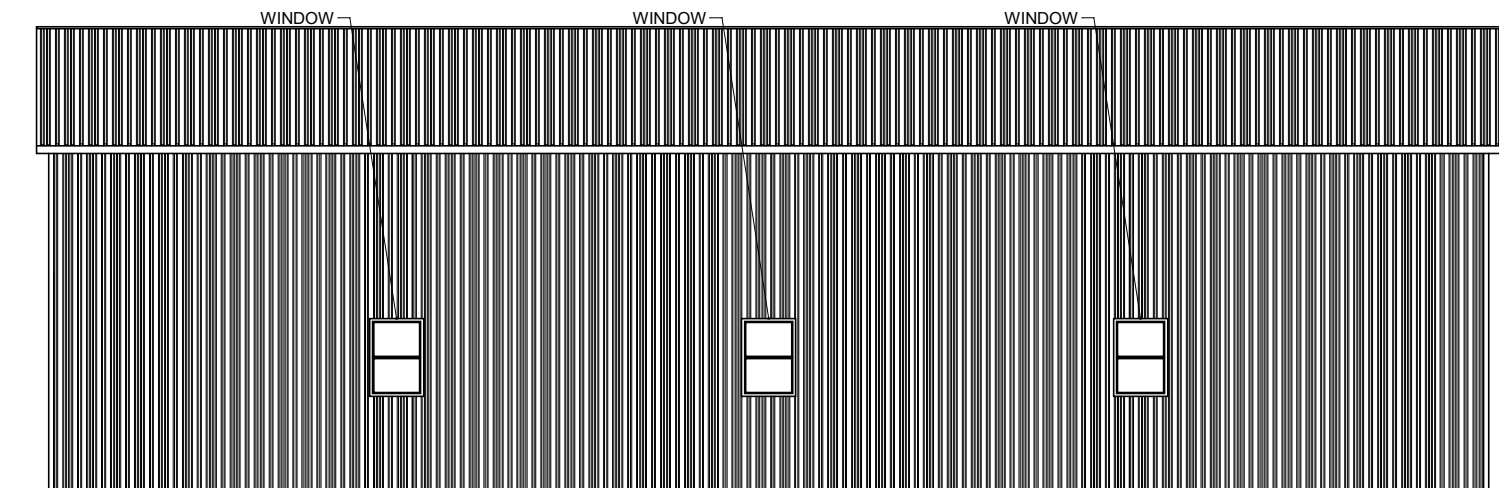
BECHTOL ENGINEERING AND TESTING, inc.
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS
Certificate of Authorization No. 00005492

FIELD:	DATE:	03/26/2026
DRAWN:	AS	SCALE: NTS
CHECKED:	CS/ID	PROJ. NO.: G26012
APPROVED:	LP/ID	SHEET 1 OF 6



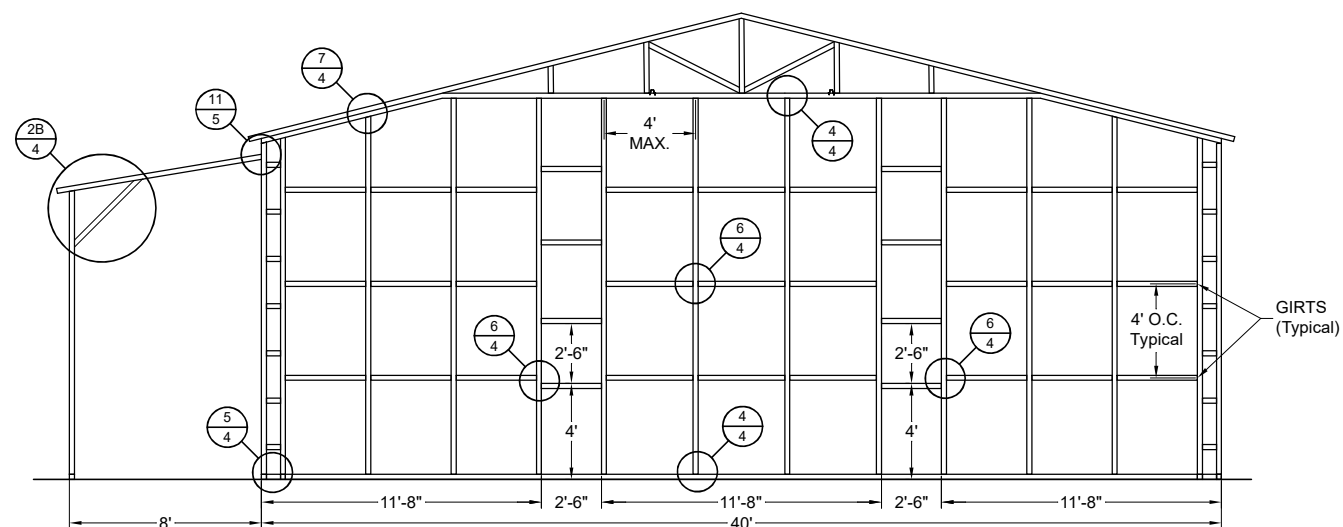
LEFT SIDE ELEVATION

SCALE: 1/8" = 1'



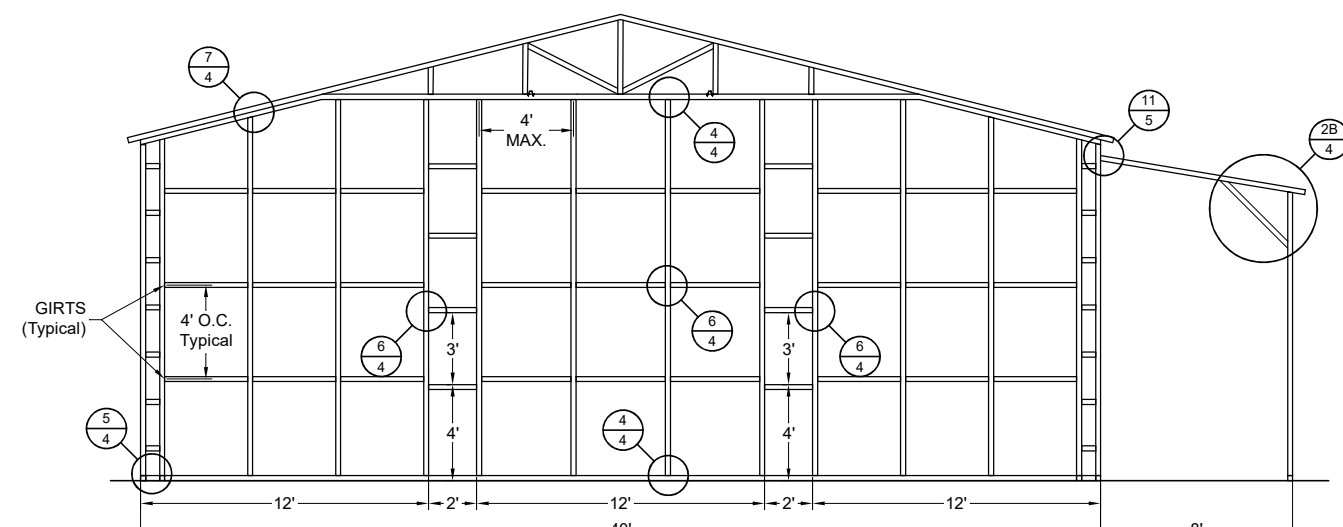
RIGHT SIDE ELEVATION

SCALE: 1/8" = 1'



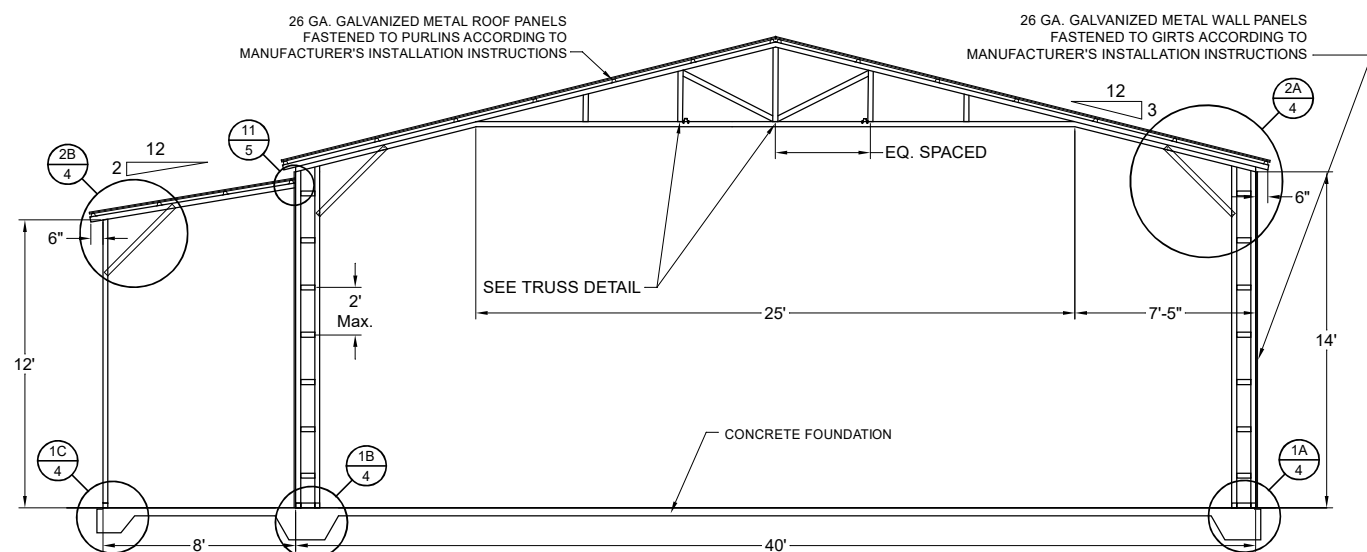
FRONT WALL POST/RAFTER FRAMING PLAN

SCALE: 1/8" = 1'



REAR WALL POST/RAFTER FRAMING PLAN

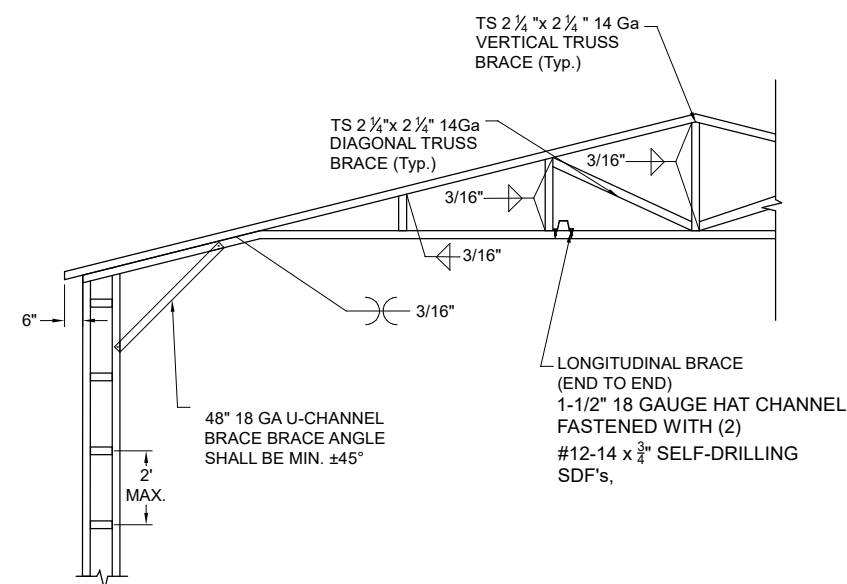
SCALE: 1/8" = 1'



TYPICAL INTERIOR POST/RAFTER FRAMING SECTION

SCALE: 1/8" = 1'

(FRONT VIEW)



TRUSS DETAIL

Not To Scale

ISRAEL DE LA ROSA

LICENSE

No 101500

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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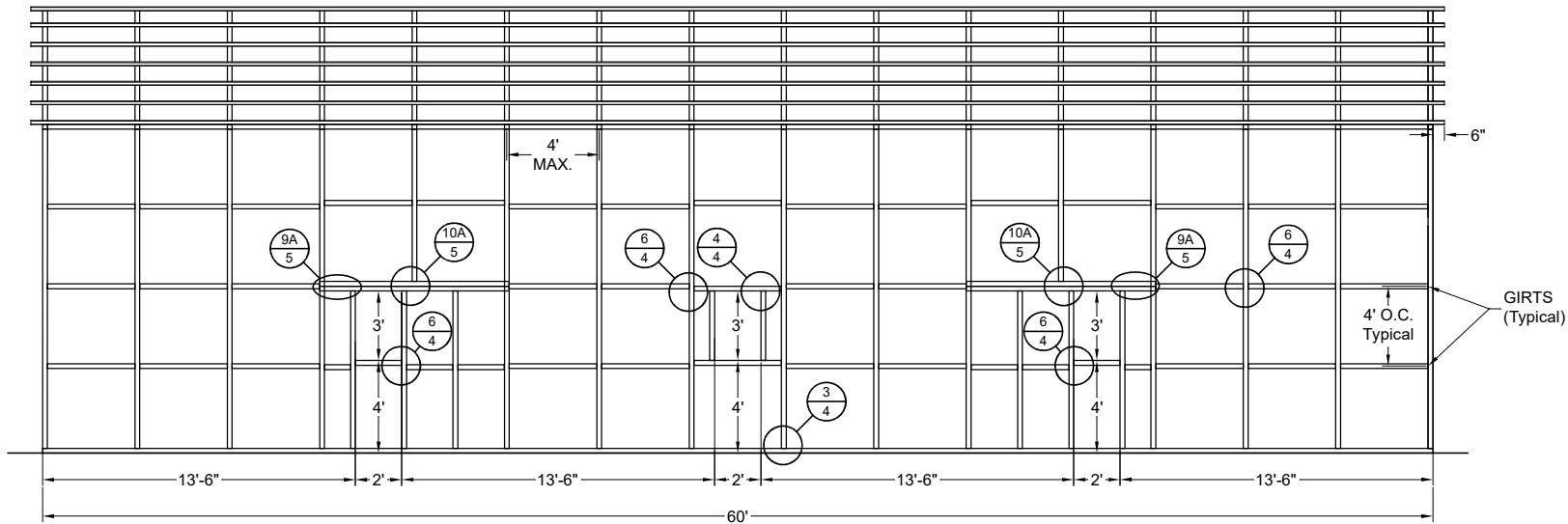
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155 SOUTHWEST COLES COURT
FORT WHITE, COLUMBIA COUNTY, FLORIDA

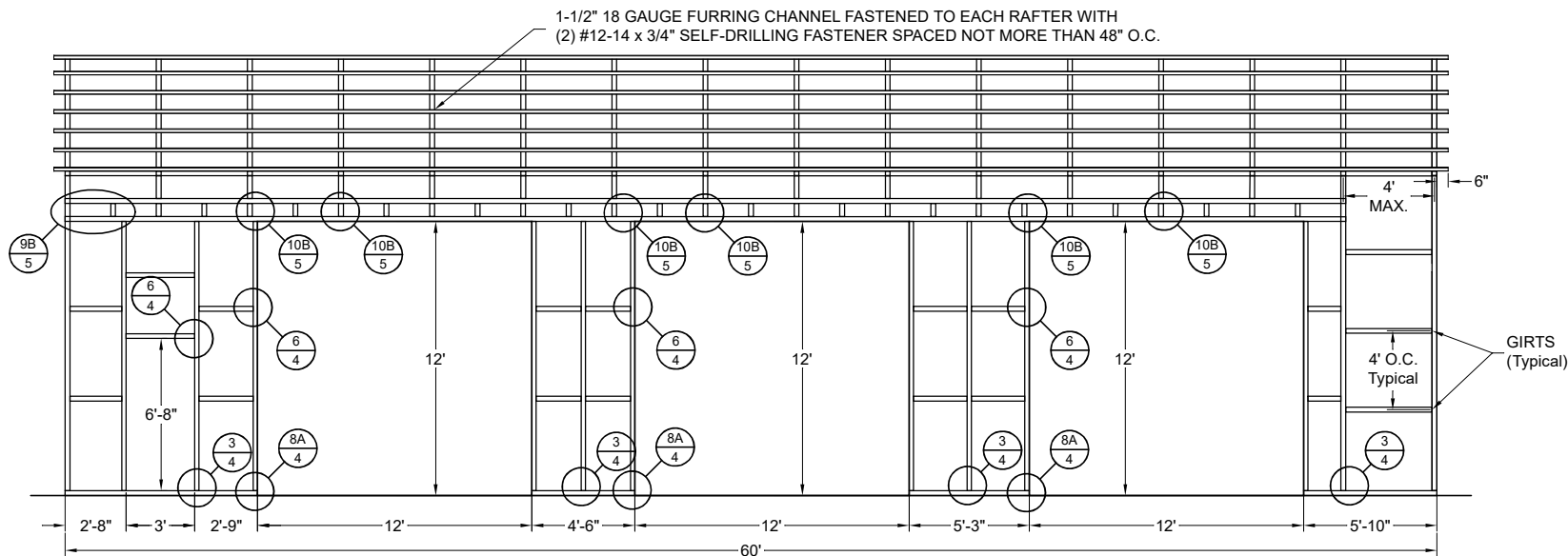
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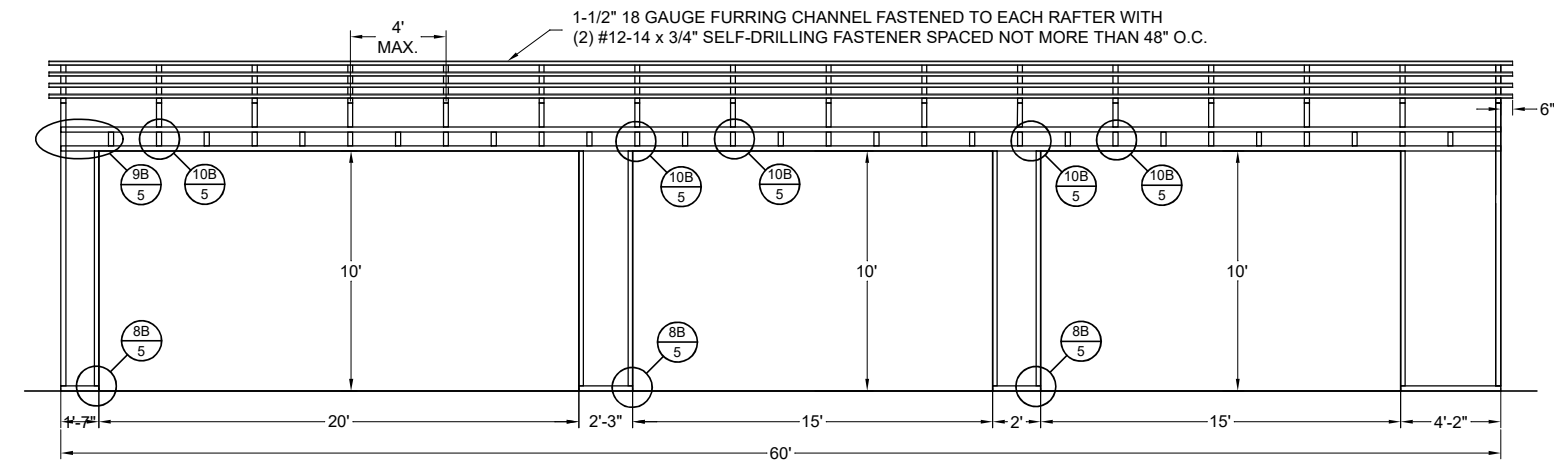
RIGHT SIDE POST/RAFTER FRAMING PLAN (MAIN BUILDING)

SCALE: 1/8" = 1'



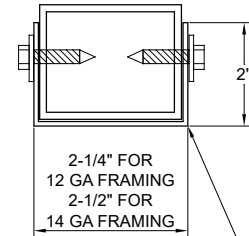
LEFT SIDE POST/RAFTER FRAMING PLAN (MAIN BUILDING)

SCALE: 1/8" = 1'



LEFT SIDE POST/RAFTER FRAMING PLAN (LEAN TO)

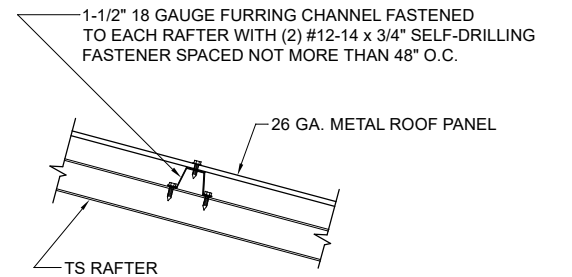
SCALE: 1/8" = 1'



16 GAUGE U-CHANNEL BRACE
FASTENED TO THE POST AND
RAFTER WITH (2) #12-14 x 3/4" SDF'S
AT EACH END (4 PER BRACE)

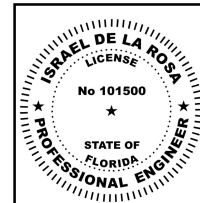
BRACE SECTION

Not To Scale



ROOF PANEL ATTACHMENT

Not To Scale



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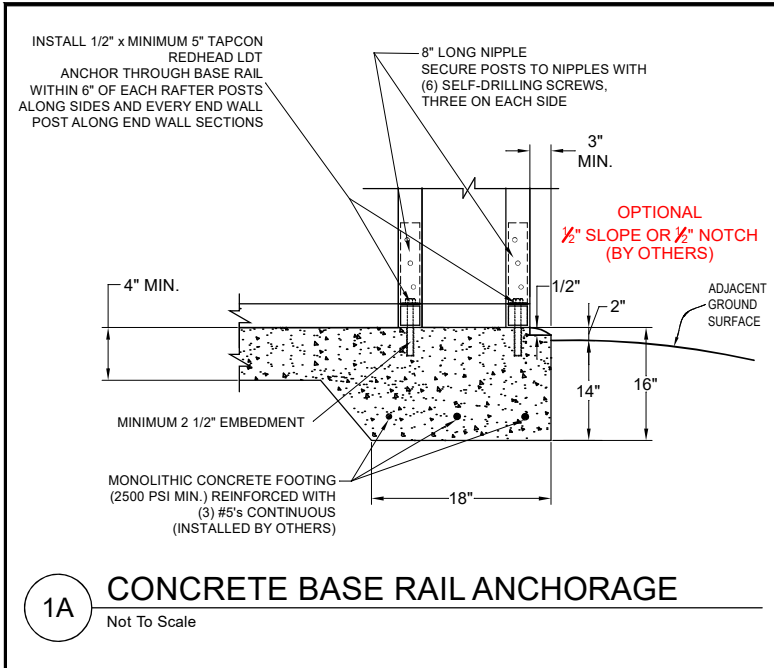
BECHTOL ENGINEERING AND TESTING, INC.

PROPOSED UTILITY STRUCTURE
155 SOUTHWEST COLES COURT
FORT WHITE, COLUMBIA COUNTY, FLORIDA

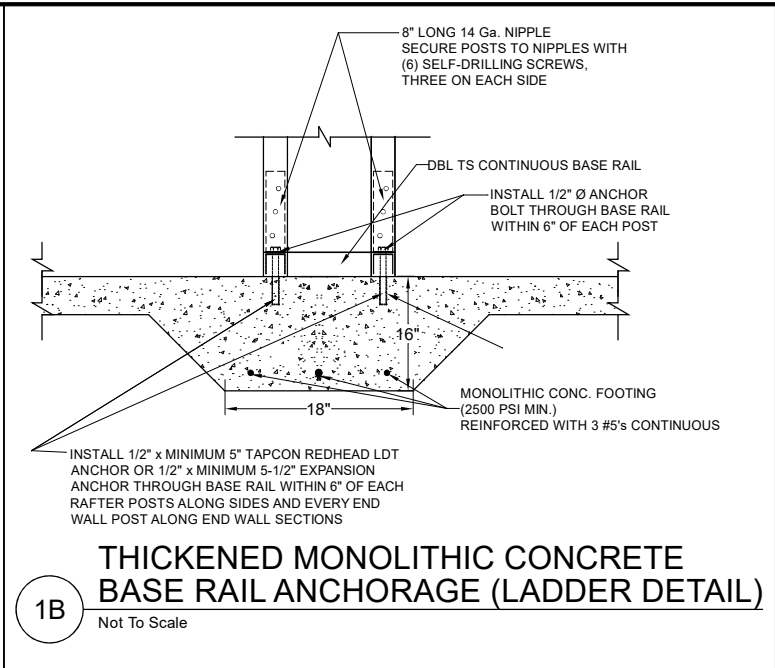


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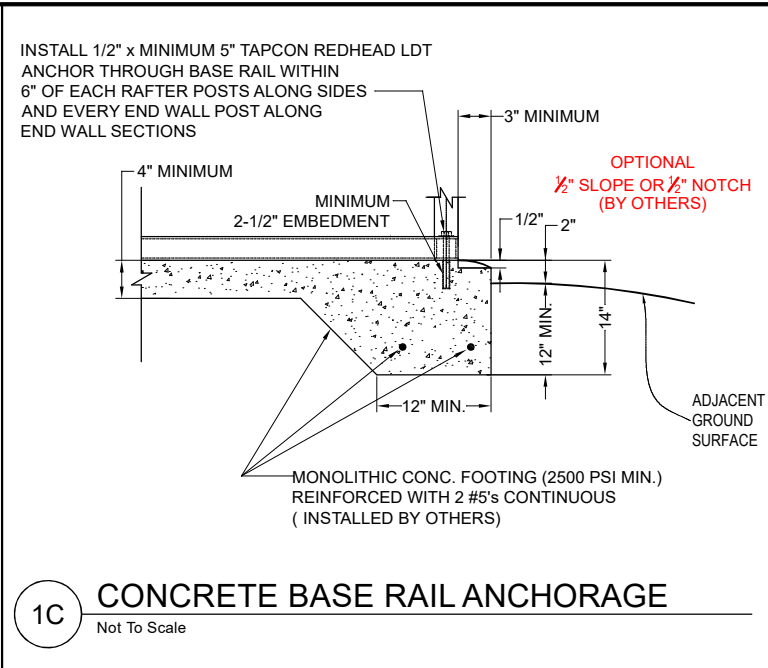
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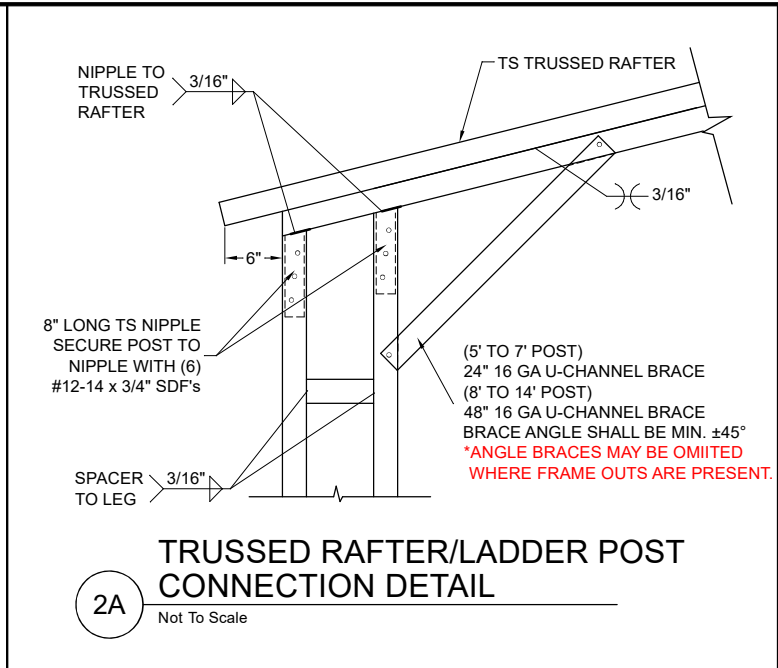
1A CONCRETE BASE RAIL ANCHORAGE
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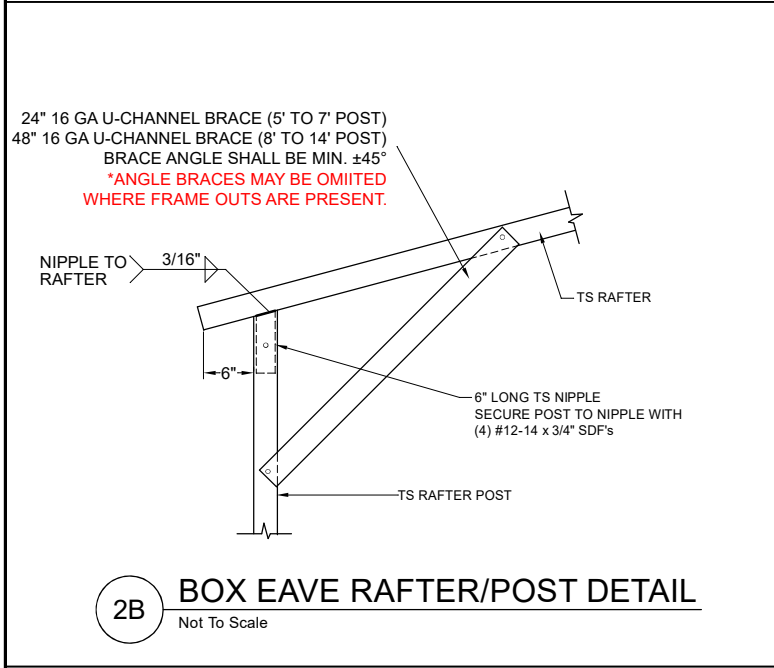
1B THICKENED MONOLITHIC CONCRETE BASE RAIL ANCHORAGE (LADDER DETAIL)
Not To Scale



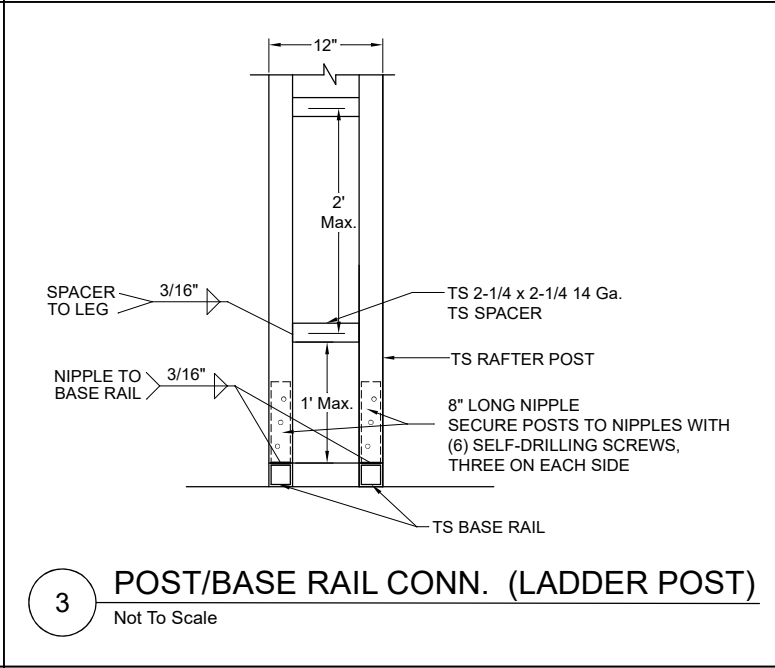
1C CONCRETE BASE RAIL ANCHORAGE
Not To Scale



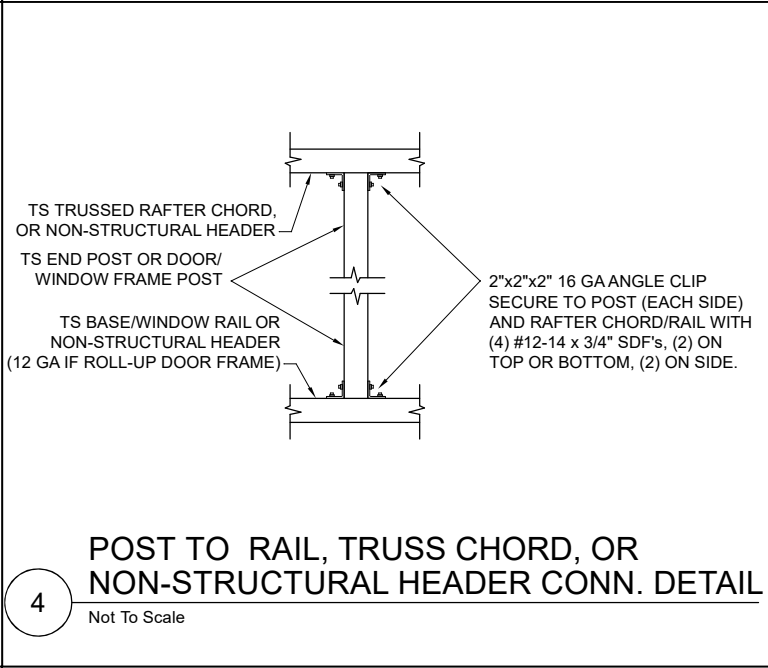
2A TRUSSED RAFTER/LADDER POST CONNECTION DETAIL
Not To Scale



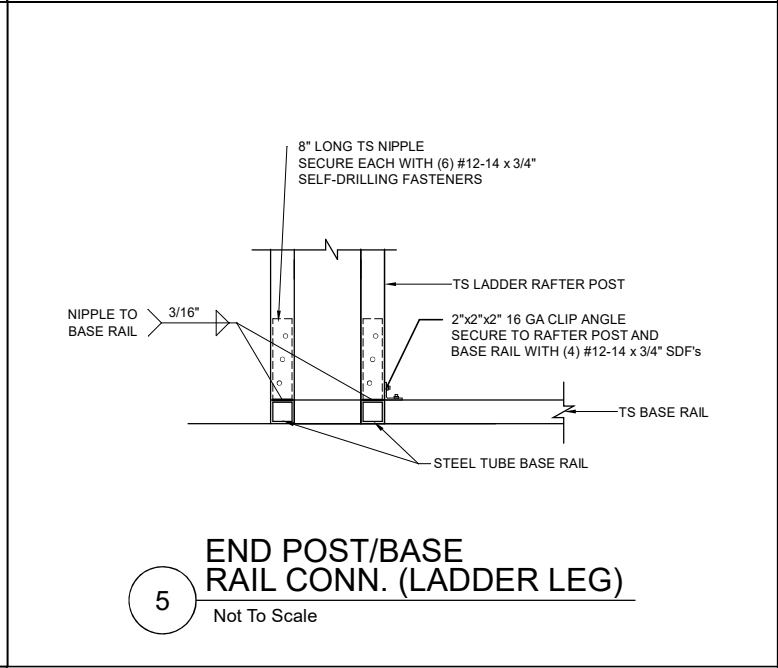
2B BOX EAVE RAFTER/POST DETAIL
Not To Scale



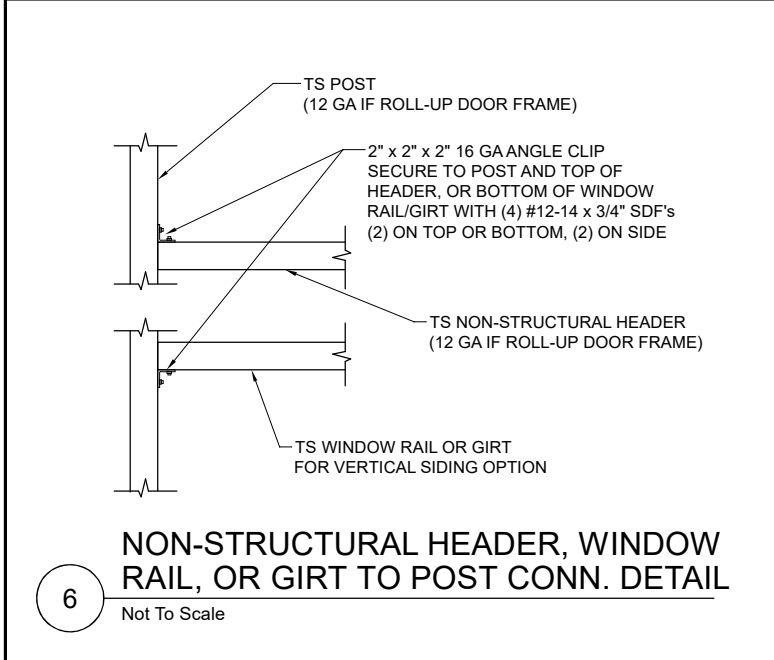
3 POST/BASE RAIL CONN. (LADDER POST)
Not To Scale



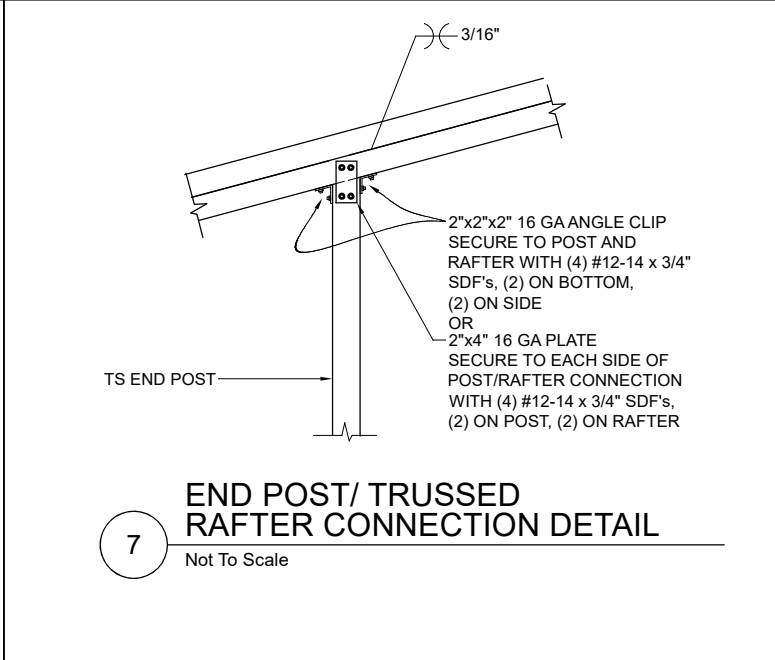
4 POST TO RAIL, TRUSS CHORD, OR NON-STRUCTURAL HEADER CONN. DETAIL
Not To Scale



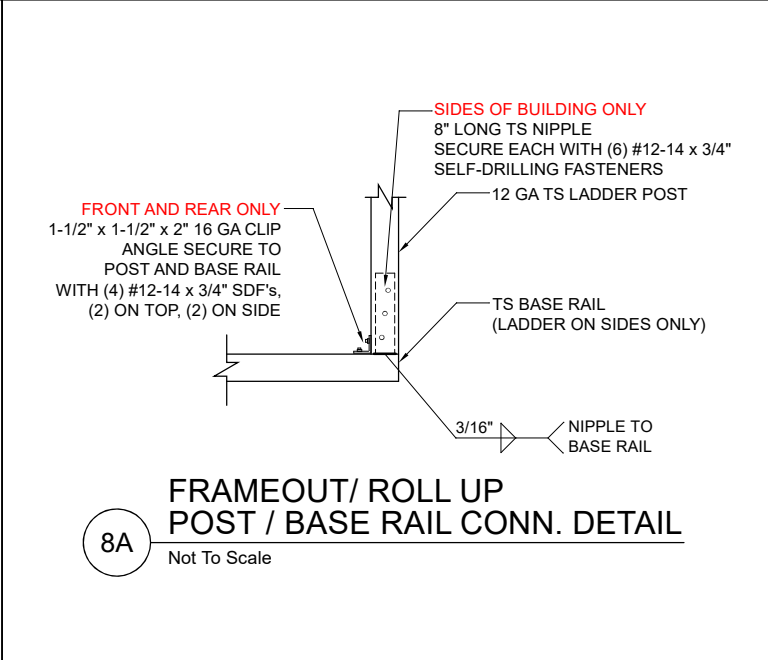
5 END POST/BASE RAIL CONN. (LADDER LEG)
Not To Scale



6 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL
Not To Scale



7 END POST/ TRUSSED RAFTER CONNECTION DETAIL
Not To Scale



8A FRAMEOUT/ ROLL UP POST / BASE RAIL CONN. DETAIL
Not To Scale

ISRAEL DE LA ROSA
LICENSE
No 101500
★
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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PROPOSED UTILITY STRUCTURE
155 SOUTHWEST COLES COURT
FORT WHITE, COLUMBIA COUNTY, FLORIDA

B

BECHTOL ENGINEERING AND TESTING, inc.

CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS
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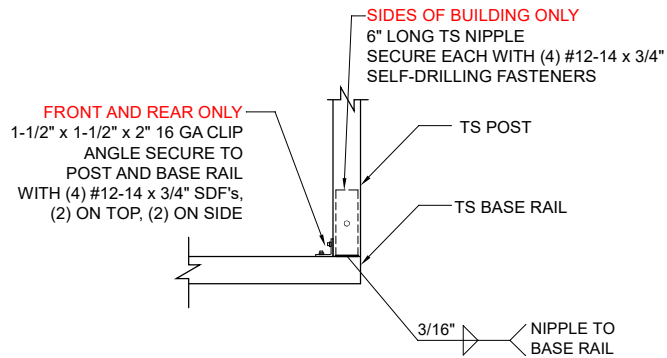
APPROVED: LP/ID

DATE: 03/26/2026

SCALE: NTS

PROJ. NO.: G26012

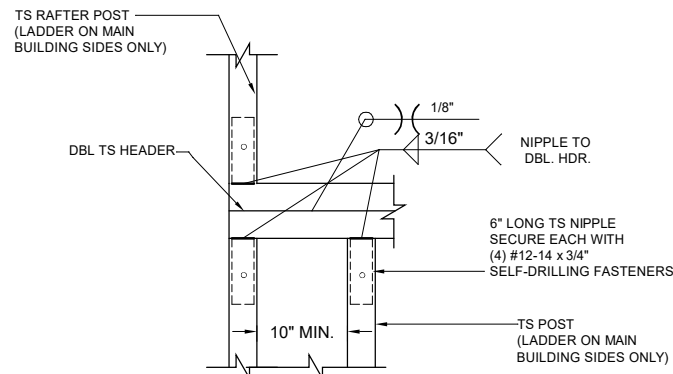
SHEET 4 OF 6



**FRAMEOUT/ ROLL UP
POST / BASE RAIL CONN. DETAIL**

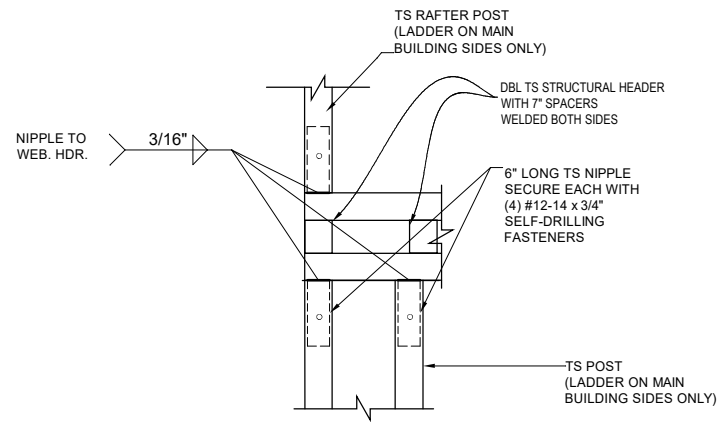
8B

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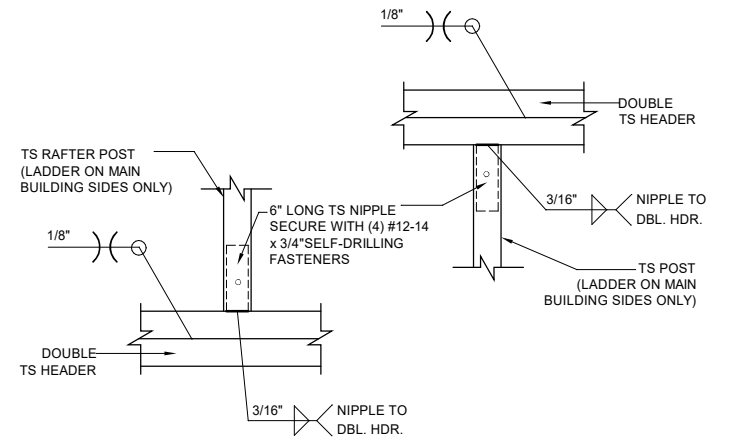
9A RAFTER POST/DBL. HEADER DETAIL

Not To Scale



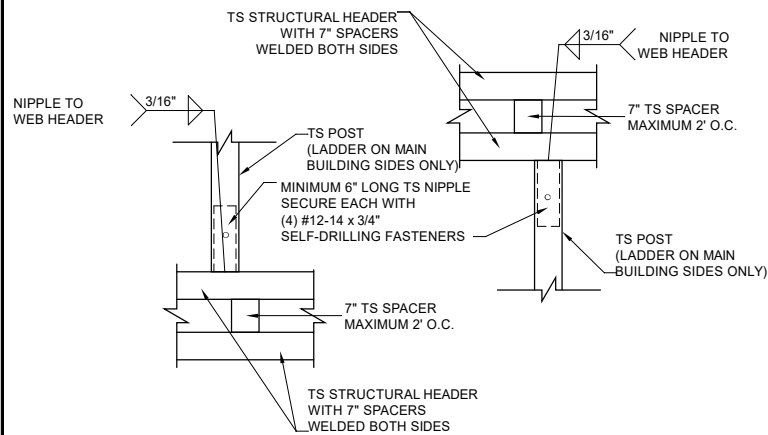
9B RAFTER POST/WEB HEADER DETAIL

Not To Scale



10A DBL. HEADER TO RAFTER POST DETAIL

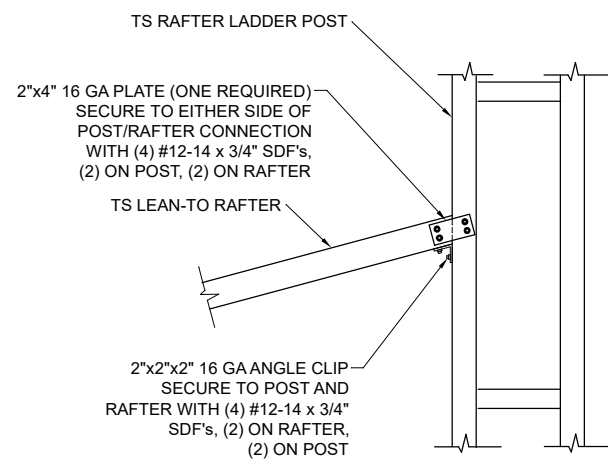
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**STRUCTURAL HEADER TO
POST CONNECTION DETAIL**

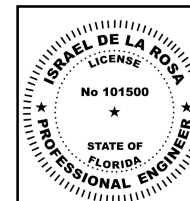
10A

Not To Scale



11 POST / LEAN-TO RAFTER CONN. DETAIL

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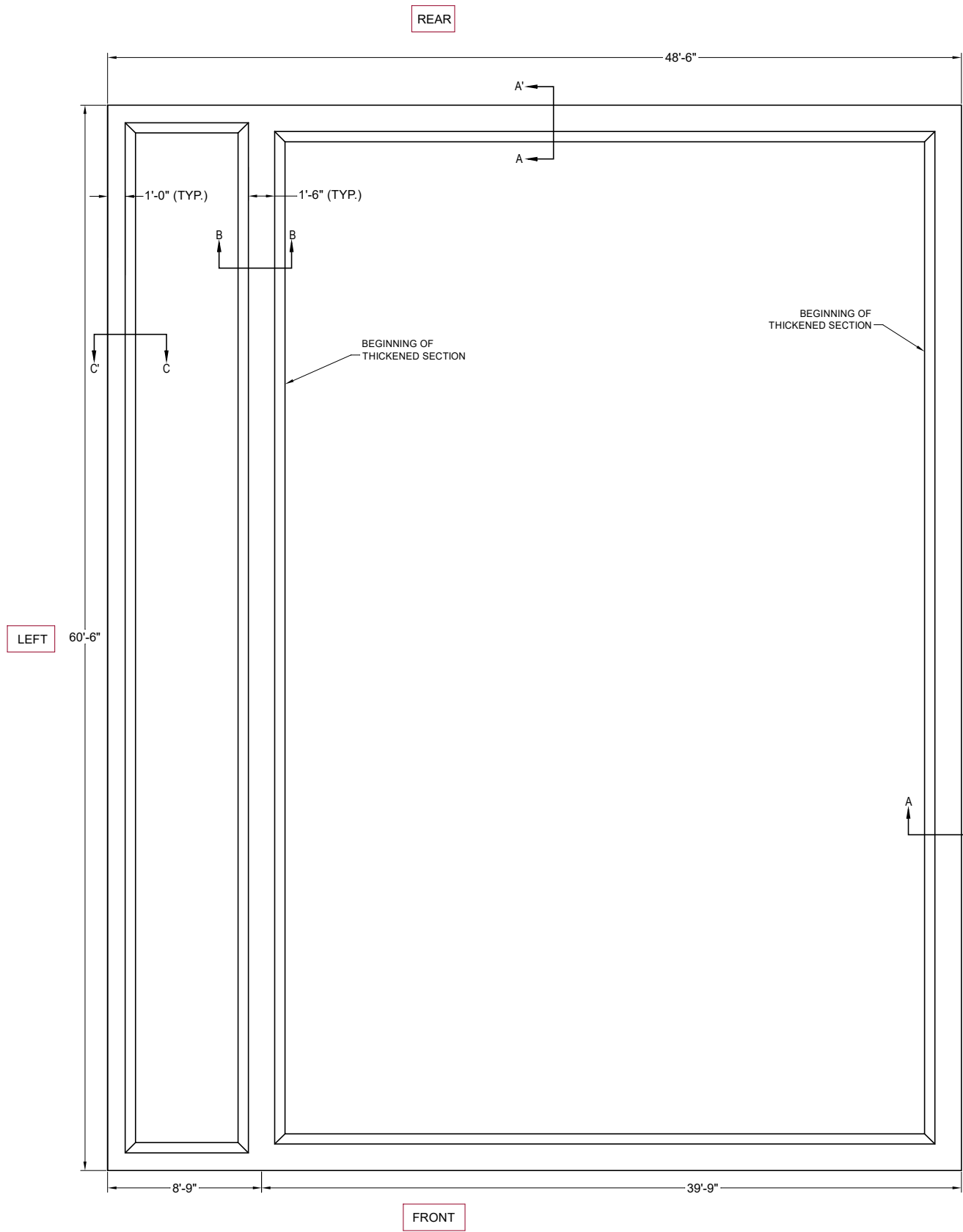
BECHTOL ENGINEERING AND TESTING, INC.

PROPOSED UTILITY STRUCTURE
155 SOUTHWEST COLES COURT
FORT WHITE, COLUMBIA COUNTY, FLORIDA

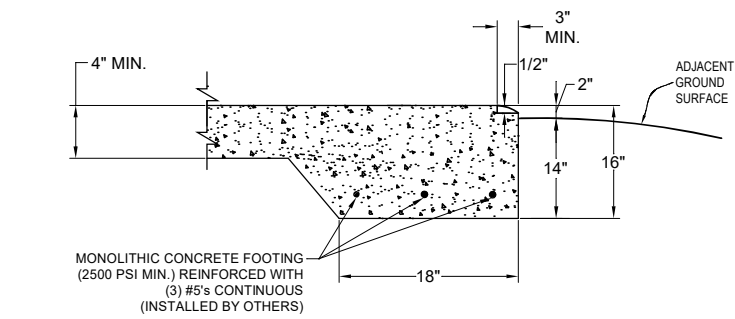


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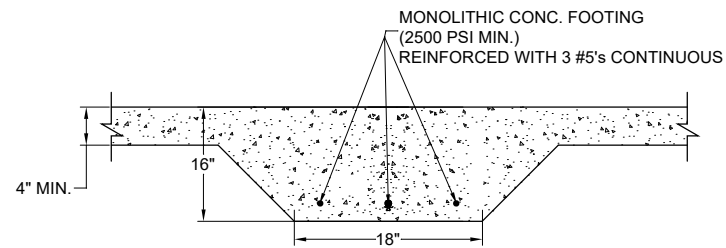
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APPROVED:	LP/ID	SHEET 5 OF 6



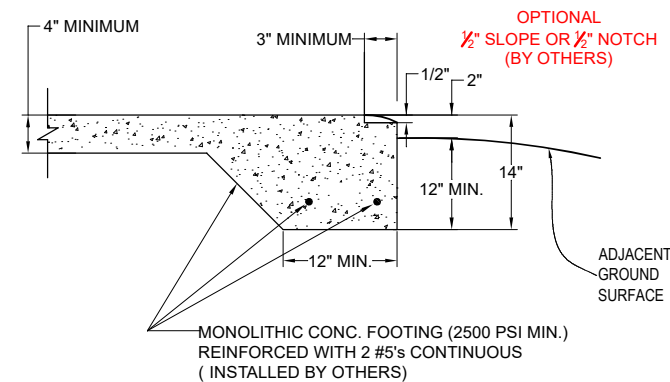
FOUNDATION LAYOUT
SCALE: 1/8" = 1'



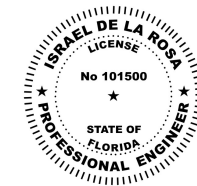
SECTION A-A'



SECTION B-B
Not To Scale



SECTION C-C'
Not To Scale



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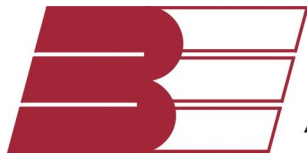
BECHTOL ENGINEERING AND TESTING, INC.

PROPOSED UTILITY STRUCTURE
155 SOUTHWEST COLES COURT
FORT WHITE, COLUMBIA COUNTY, FLORIDA



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FIELD:	DATE:	03/26/2026
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CHECKED: CS/ID	PROJ. NO.:	G26012
APPROVED: LP/ID		SHEET 6 OF 6



BECHTOL ENGINEERING AND TESTING, inc.

METAL WALL PANEL FASTENER SPECIFICATIONS

PROJECT ID: SEE ATTACHED

REAL ESTATE NO.: SEE ATTACHED

COUNTY: SEE ATTACHED

PREPARED FOR: SEE ATTACHED

DATE PREPARED:

MATERIAL SPECIFICATIONS:

WALL PANELS: TRI COUNTY METALS "ULTRA RIB" 26 GA., 36" WIDE PANELS.

SUBSTRATE: 14 GAUGE STEEL POST AND/OR GIRT AT 48" ON CENTERS.

WALL PANEL FASTENERS: #12 SDF WITH CONTROL SEAL WASHER. FASTENER LENGTH SHALL BE SUFFICIENT TO ACHIEVE FULL PENETRATION.

DESIGN CRITERIA:

RISK CATEGORY: I

EXPOSURE CATEGORY: C

ULTIMATE WIND SPEED: 170 MPH MAX

NOMINAL DESIGN WIND SPEED: 132 MPH MAX

BUILDING CLASSIFICATION: PART. ENCLOSED

MEAN ROOF HEIGHT: 15.88 FEET MAX

ROOF ANGLE: 14 DEGREES

COMPONENT AND CLADDING DESIGN WIND PRESSURES:

DESIGN UNIT LOADS (q): SEE ATTACHED WIND PRESSURE CALCULATIONS.

MAXIMUM DESIGN PRESSURE: -60.5 PSF.

WALL PANEL FASTENER DESIGN CALCULATIONS:

DESIGN FASTENER: #12 x 1-1/2" SDF INTO 14 GAUGE POST AND/OR GIRT.

ALLOWABLE PULL-OUT CAPACITY = 230 POUNDS / SCREW (INCORPORATES MINIMUM SF = 3)

MAXIMUM POST AND/OR GIRT SPACING = 48 INCHES = 4.0 FEET ON CENTERS.

RIB PANEL WIDTH = 36" = 3.0'.

USE MAXIMUM WIND PRESSURE = 60.5 PSF

FASTENERS REQUIRED = $(3.0)(4.0)(60.5)/(230) = 3.16$ (4 SCREWS PER PANEL ALONG EACH POST AND/OR GIRT).

DESIGN: USE ONE (1) SCREW IN FLAT ADJACENT TO EACH RIB ALONG EACH POST AND/OR GIRT.

CHECK PANEL PULL-OVER CAPACITY:

DESIGN FASTENER: #12 SDF OVER 26 GA. PANEL.

ALLOWABLE PULL-OVER CAPACITY = 203 POUNDS / SCREW (INCORPORATES MINIMUM SF = 3)

POST AND/OR GIRT SPACING = 48 INCHES = 4.0 FEET ON CENTERS.

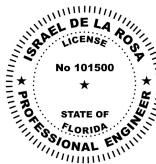
RIB PANEL WIDTH = 3.0 FEET.

USE MAXIMUM WIND PRESSURE = 60.5 PSF

SCREWS PER CONTRIBUTING AREA = 4

SCREW PULL-OVER FORCE = $(3.0)(4.0)(60.5)/(4) = 181.5$ LB/SCREW < 203 LB/SCREW ALLOWABLE **OK**

THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1609 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND CHAPTER 30 OF ASCE 7-22.



This item has been digitally signed and sealed by Israel De La Rosa, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Israel De La
Rosa

2026.05.04

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BECHTOL ENGINEERING AND TESTING, INC.





BECHTOL ENGINEERING AND TESTING, inc.

METAL ROOF PANEL FASTENER SPECIFICATIONS

PROJECT ID: SEE ATTACHED

REAL ESTATE NO.: SEE ATTACHED

COUNTY: SEE ATTACHED

PREPARED FOR: SEE ATTACHED

DATE PREPARED:

MATERIAL SPECIFICATIONS:

ROOF PANELS: TRI COUNTY METALS "ULTRA RIB" 26 GA., 36" WIDE PANELS.

SUBSTRATE: 18 GAUGE STEEL HAT CHANNEL PURLINS AT 48" ON CENTERS.

ROOF PANEL FASTENERS: #12 SDF WITH CONTROL SEAL WASHER. FASTENER LENGTH SHALL BE SUFFICIENT TO ACHIEVE FULL PENETRATION.

DESIGN CRITERIA:

RISK CATEGORY: I

EXPOSURE CATEGORY: C

ULTIMATE WIND SPEED: 156 MPH MAX

NOMINAL DESIGN WIND SPEED: 121 MPH MAX

BUILDING CLASSIFICATION: PART. ENCLOSED

MEAN ROOF HEIGHT: 15.88 FEET MAX

ROOF ANGLE: 14 DEGREES

COMPONENT AND CLADDING DESIGN WIND PRESSURES:

DESIGN UNIT LOADS (q): SEE ATTACHED WIND PRESSURE CALCULATIONS.

MAXIMUM DESIGN PRESSURE: -101.0 PSF.

ROOF PANEL FASTENER DESIGN CALCULATIONS:

DESIGN FASTENER: #12 x 1-1/2" SDF INTO 18 GAUGE PURLIN.

ALLOWABLE PULL-OUT CAPACITY = 152 POUNDS / SCREW (INCORPORATES MINIMUM SF = 3)

MAXIMUM PURLIN SPACING = 48 INCHES = 4.0 FEET ON CENTERS.

RIB PANEL WIDTH = 36" = 3.0'.

USE MAXIMUM WIND PRESSURE = 101.0 PSF

FASTENERS REQUIRED = $(3.0)(4.0)(101.0)/(152) = 7.97$ (8 SCREWS PER PANEL ALONG EACH PURLIN).

DESIGN: USE ONE (1) SCREW IN FLAT ADJACENT TO EACH SIDE OF EACH RIB ALONG EACH PURLIN

CHECK PANEL PULL-OVER CAPACITY:

DESIGN FASTENER: #12 SDF OVER 26 GA. PANEL.

ALLOWABLE PULL-OVER CAPACITY = 203 POUNDS / SCREW (INCORPORATES MINIMUM SF = 3)

PURLIN SPACING = 48 INCHES = 4.0 FEET ON CENTERS.

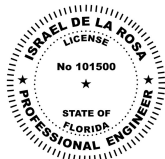
RIB PANEL WIDTH = 3.0 FEET.

USE MAXIMUM WIND PRESSURE = 101.0 PSF

SCREWS PER CONTRIBUTING AREA = 8

SCREW PULL-OVER FORCE = $(3.0)(4.0)(101.0)/(8) = 151.5$ LB/SCREW < 203 LB/SCREW ALLOWABLE **OK**

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