

FBC APPROVED PRODUCTS LIST					MAXIMUM ALLOWABLE WIND SPEED		
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	OPEN	ENCLOSED	PARTIALLY ENCLOSED
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596.1-R6 12/15/20	04/05/27	180	180	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702.1-R6 12/15/20	03/14/27	180	180	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Dutch Lap Wall Panel	FL6702.3-R6 12/15/20 **	03/14/27	N/A	164	143
STRUCTURAL COMPONENTS	FLOOD VENT	CRAWL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL29622.1-R1 02/28/21	09/30/22	N/A	N/A	N/A
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996.3-R2 02/28/21	08/26/25	N/A	139	139
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R2 02/28/21	08/19/25	N/A	174	155
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12' Max. Width)	FL8888.1-R6 02/09/21	12/31/24	N/A	180	174
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door (8' Max. Width)	FL16806.2-R5 12/16/20	04/05/27	N/A	180	180
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (10' Max. Width)	FL16806.4-R5 12/16/20	04/05/27	N/A	180	172
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (12' Max. Width)	FL16806.4-R5 12/16/20	04/05/27	N/A	179	154
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (16' Max. Width)	FL4133.5 06/07/22	04/05/27	N/A	163	142
WINDOWS	SINGLE HUNG	CGI WINDOWS AND DOORS Model SH 4000A	FL23358.2 12/16/20	02/28/33	N/A	174	156

NOTES:  
1. DOORS AND WINDOWS SHOWN MAY BE SUBSTITUTED FOR DIFFERENT PRODUCT LINES AND/OR MODELS, PROVIDED THE FOLLOWING CONDITIONS ARE MET:  
A. PRODUCT SHALL HAVE A VALID FBC PRODUCT APPROVAL.  
B. COMPONENTS ARE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS.  
2. FRAMING CONNECTIONS FOR DOOR AND WINDOW FRAMES REMAIN THE SAME FOR SUBSTITUTED PRODUCTS. HEADERS AND WINDOW RAILS MAY BE RAISED OR LOWERED AS NECESSARY TO ACCOMMODATE SUBSTITUTED PRODUCT.  
\*\* MAXIMUM POST SPACING FOR DUTCH LAP IS 4.0'

**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 (RISK CATEGORY I) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, INCLUDING DOORS, WINDOWS, OR OTHER COMPONENTS NOT LISTED IN THE FBC APPROVED PRODUCTS LIST (THIS SHEET), AND NOT PROVIDED AND INSTALLED BY CAROLINA CARPORTS, INC., WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE **SHALL BE AT THE OWNER'S RISK**. BECHTOL ENGINEERING AND TESTING, INC., SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.
- 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, **AND SHALL MEET THE DESIGN PRESSURES REQUIRED BY THE FLORIDA BUILDING CODE (FBC) AT THE LOCATION OF THE BUILDING WITHIN THE STATE OF FLORIDA.**
- 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.
- BASE RAIL GROUND ANCHOR REQUIREMENTS: ONE WITHIN 6" OF EVERY POST LOCATION, AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION. SEE GROUND ANCHOR SCHEDULE (THIS SHEET) FOR SPECIFIC GROUND ANCHOR SIZE REQUIREMENTS.
- CONCRETE ANCHORS SHALL BE TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT OR WEJ-IT ANKR-TITE MODEL AT1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVALENT.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.
- SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FBC EIGHTH EDITION (2023) - RESIDENTIAL, AND SECTION 1816.1 OF THE FBC EIGHTH EDITION (2023) - BUILDING. MINIMUM ALLOWABLE FOUNDATION SOIL CONTACT BEARING PRESSURE OF 2,000 PSF 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.
- ENCLOSED AREAS REQUIRING FLOOD OPENINGS MUST HAVE A MINIMUM OF TWO (2) OPENINGS ON EXTERIOR WALLS. OPENINGS SHOULD BE INSTALLED ON AT LEAST TWO (2) SIDES OF ENCLOSED AREA, WITH BASE OF OPENINGS SET WITHIN 1-FOOT OF THE HIGHER OF INTERIOR OR EXTERIOR GRADE. REQUIRED TOTAL NUMBER OF FLOOD VENTS NOTED IN THE FBC APPROVED PRODUCTS LIST SHALL BE BASED ON ONE (1) FLOOD VENT PER EVERY 305 SQUARE FEET OF ENCLOSED AREA. SEE TYPICAL FLOOD VENT FRAMING PLAN, SHEET 5 OF 6.

**TABLE 1**  
**RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS**

RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM POST / RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					INTERIOR POSTS/RAFTERS	END POSTS/RAFTERS
I	C	110 TO 150	89 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6

NOTES: 1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18 gauge hat channel roof purlins.  
2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7° to 27° (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

**GROUND ANCHOR SCHEDULE**

ULTIMATE WIND SPEED (mph)

	110	120	130	140	150	160	170	180	
BUILDING WIDTH (feet)	12	30" Anchor Detail 1D							
	14	30" Anchor Detail 1D							
	16	30" Anchor Detail 1D							
	18	30" Anchor Detail 1D							
	20	30" Anchor Detail 1D			48" Anchor Detail 1C				
	22	30" Anchor Detail 1D			48" Anchor Detail 1C				
	24	30" Anchor Detail 1D			48" Anchor Detail 1C				
	26	30" Anchor Detail 1D			48" Anchor Detail 1C				
	28	30" Anchor Detail 1D			48" Anchor Detail 1C				
	30	30" Anchor Detail 1D			48" Anchor Detail 1C		60" Anchor Detail 1C		

**DETAILS 1C AND 1D SHOWN ON SHEET 4 OF 6**

**METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS**

FOR CONSTRUCTION IN THE STATE OF FLORIDA

PREPARED FOR:  
**CAROLINA CARPORTS, INC.**  
P.O. BOX 1263  
DOBSON, NORTH CAROLINA 27017

PREPARED BY:  
**BECHTOL ENGINEERING AND TESTING, INC.**  
605 WEST NEW YORK AVENUE  
DELAND, FLORIDA 32720  
Certificate of Authorization No. 00005492



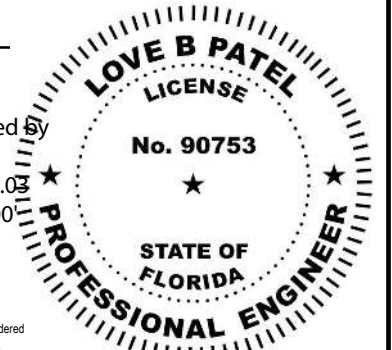
THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1609 OF THE FLORIDA BUILDING CODE, EIGHTH EDITION (2023).

**BECHTOL ENGINEERING AND TESTING, INC.**  
605 WEST NEW YORK AVENUE  
DELAND, FLORIDA 32720

**Love B Patel**  
Digitally signed by Love B Patel  
Date: 2024.01.03 14:19:31 -05'00'

**Love B. Patel, P.E.**  
Senior Engineer  
Love B. Patel, P.E., State of Florida,  
Professional Engineer, License No. 90753

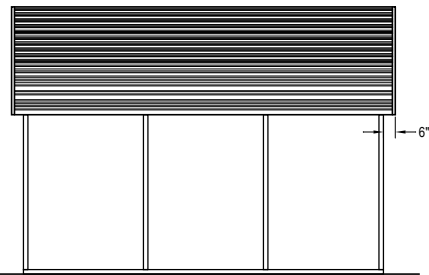
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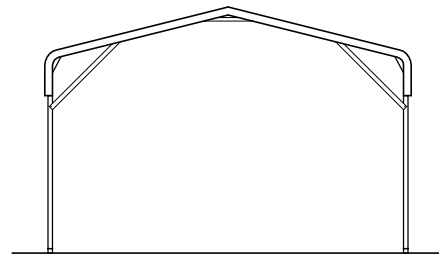
**CAROLINA CARPORTS, INC.**  
**GENERIC PLANS FOR USE IN THE STATE OF FLORIDA**

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	DRAWN:	MKB / CS	SCALE:	NTS
	CHECKED:	TB / CS	PROJ. NO.:	G23001
	APPROVED:	TB / LP	SHEET:	1 OF 6

**BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF**

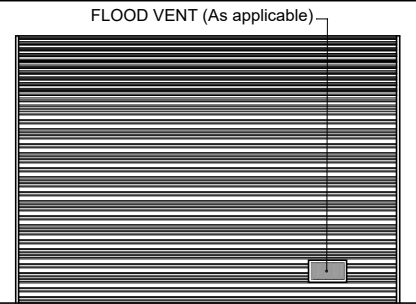


TYPICAL SIDE ELEVATION  
NOT TO SCALE

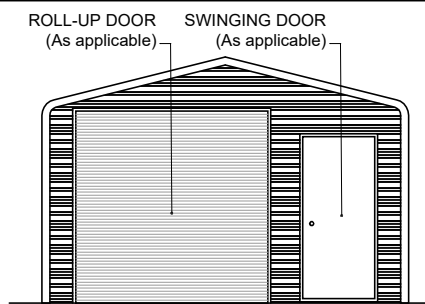


TYPICAL END ELEVATION  
NOT TO SCALE

**BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF**

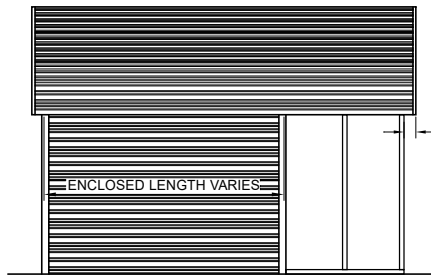


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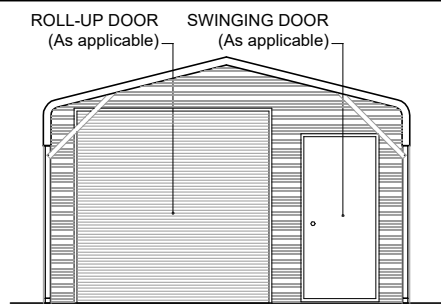


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**BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF**

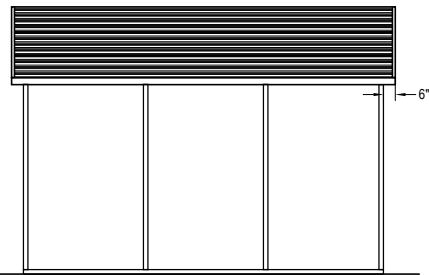


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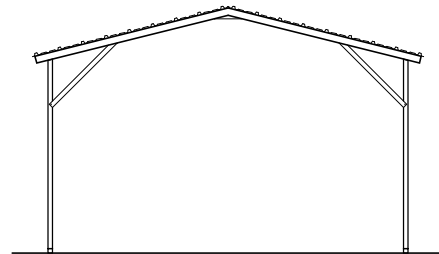


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**BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF**

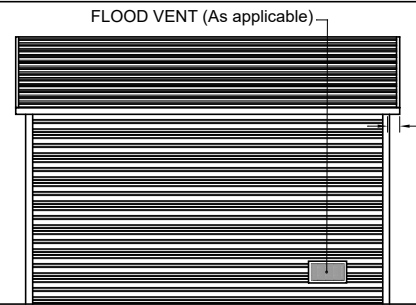


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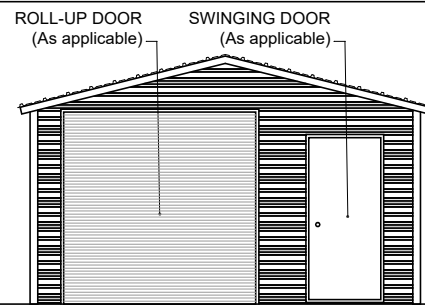


TYPICAL END ELEVATION  
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**BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF**

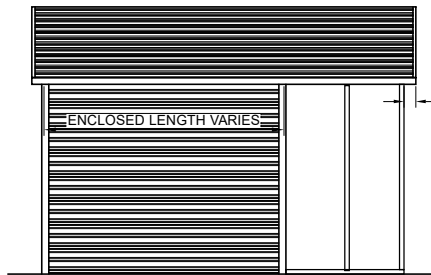


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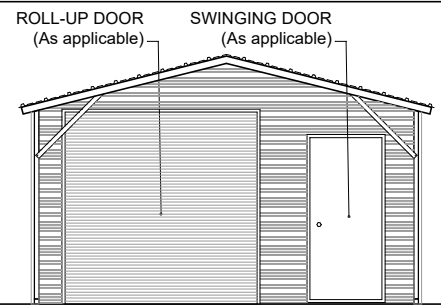


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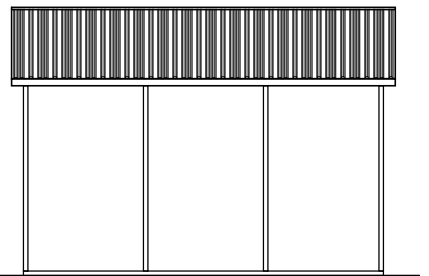


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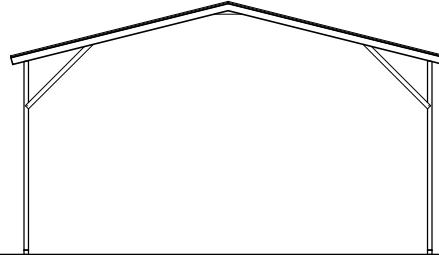


TYPICAL END ELEVATION  
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**BOX EAVE FRAME RAFTER OPEN CARPORT - VERTICAL ROOF**

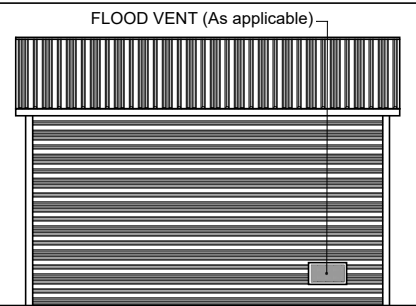


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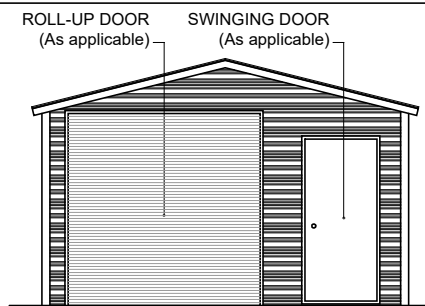


TYPICAL END ELEVATION  
NOT TO SCALE

**BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL ROOF**

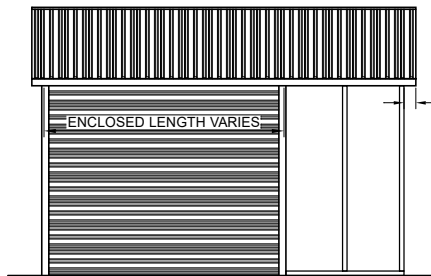


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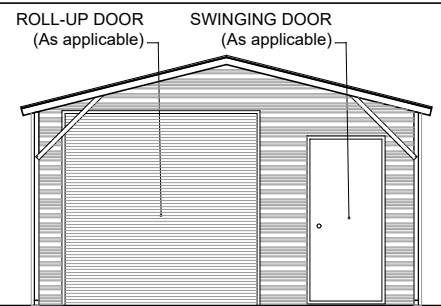


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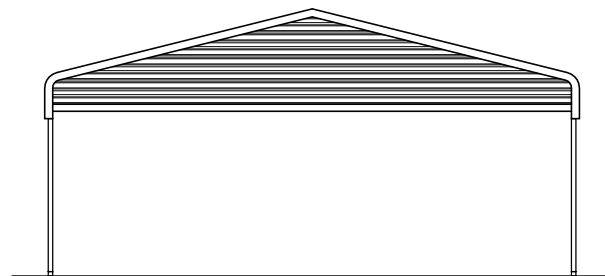
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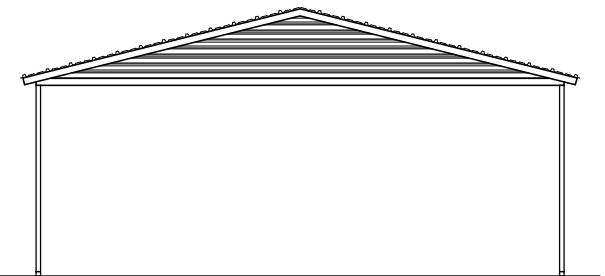
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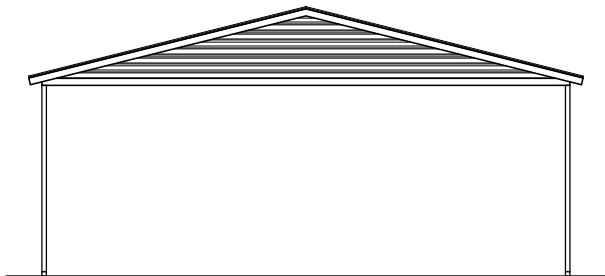
TYPICAL END ELEVATION  
NOT TO SCALE



TYPICAL BOW RAFTER GABLE END ELEVATION  
NOT TO SCALE



TYPICAL BOX EAVE RAFTER GABLE END ELEVATION  
HORIZONTAL ROOF  
NOT TO SCALE



TYPICAL BOX EAVE RAFTER GABLE END ELEVATION  
VERTICAL ROOF  
NOT TO SCALE

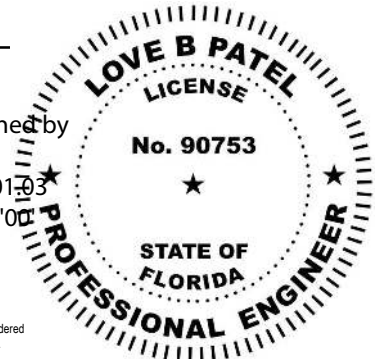
BECHTOL ENGINEERING AND TESTING, INC.  
605 WEST NEW YORK AVENUE  
DELAND, FLORIDA 32720

Love B Patel

Love B. Patel, P.E.  
Senior Engineer  
Love B. Patel, P.E., State of Florida,  
Professional Engineer, License No. 90753

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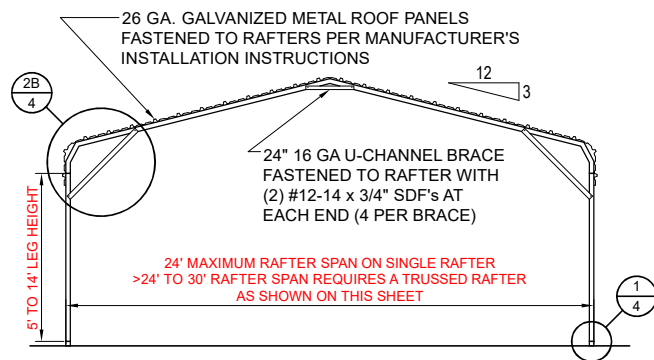
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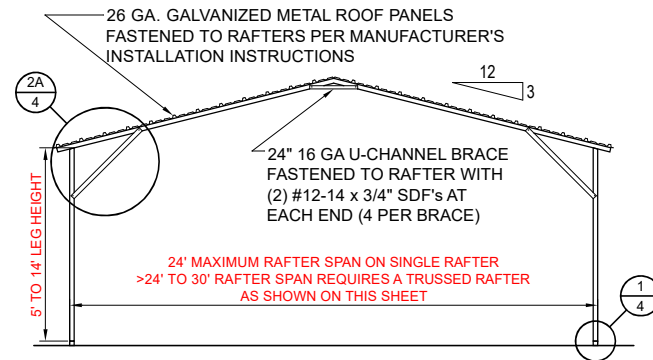
**CAROLINA CARPORTS, INC.**  
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

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

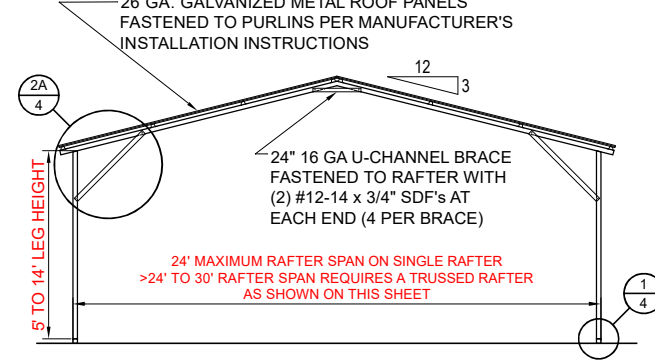
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APPROVED: TB / LP	SHEET 2 OF 6	



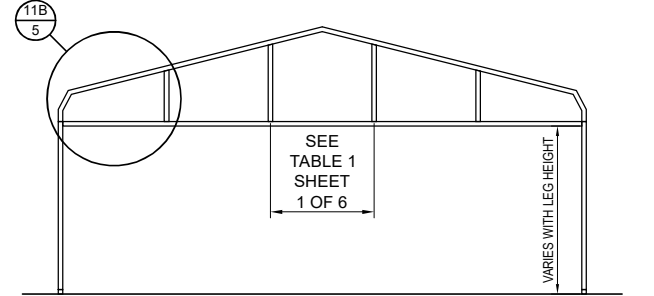
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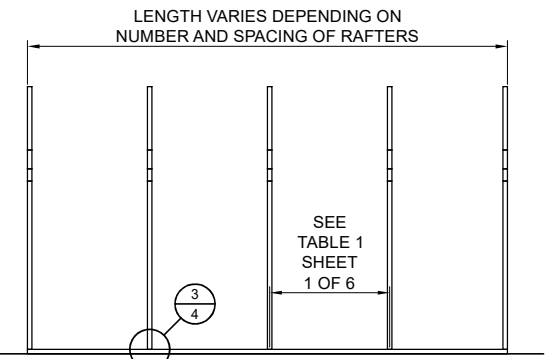
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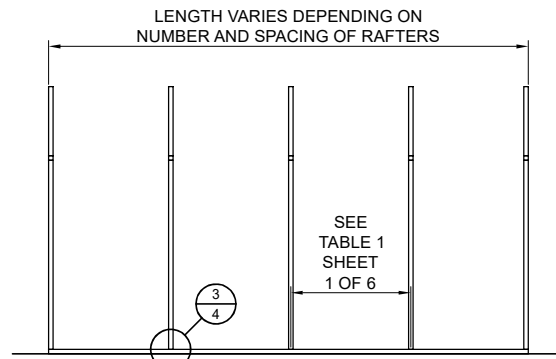
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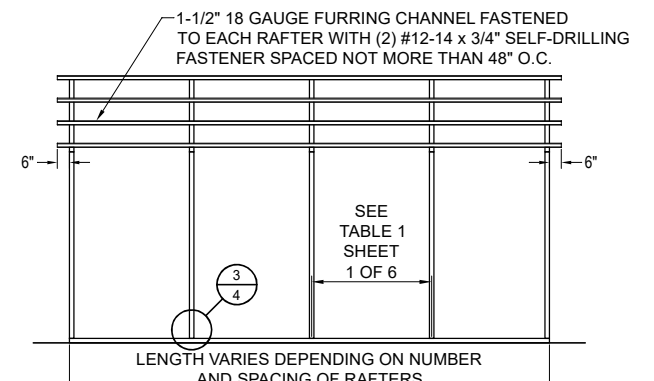
**TYPICAL BOW RAFTER GABLE END FRAMING PLAN**  
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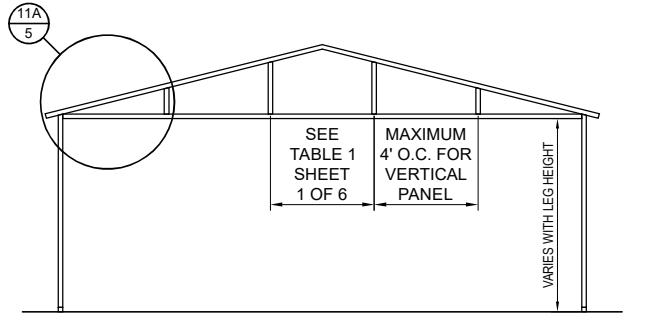
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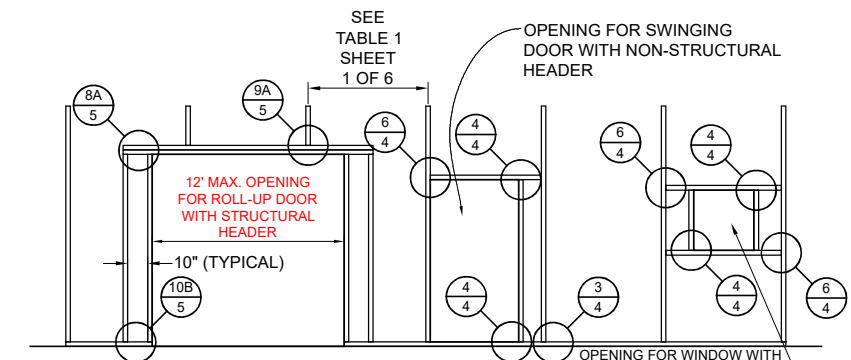
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NOT TO SCALE



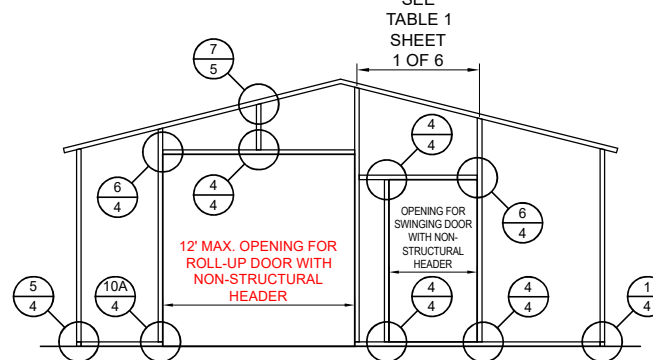
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NOT TO SCALE



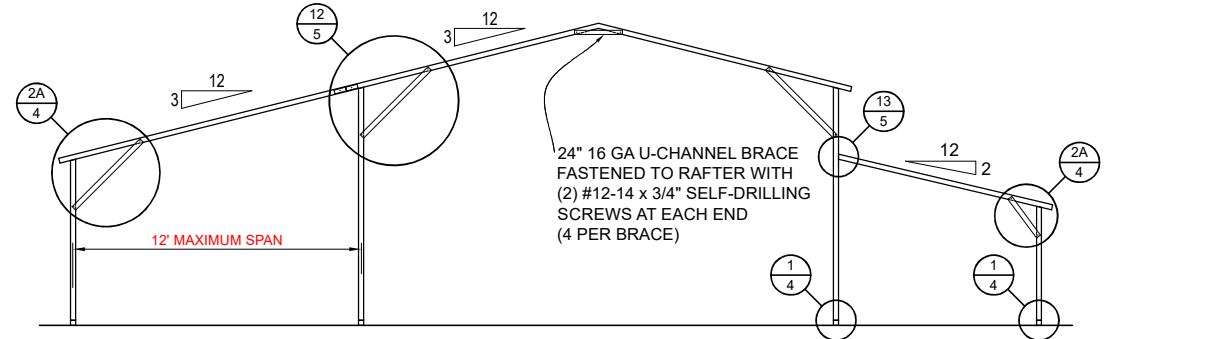
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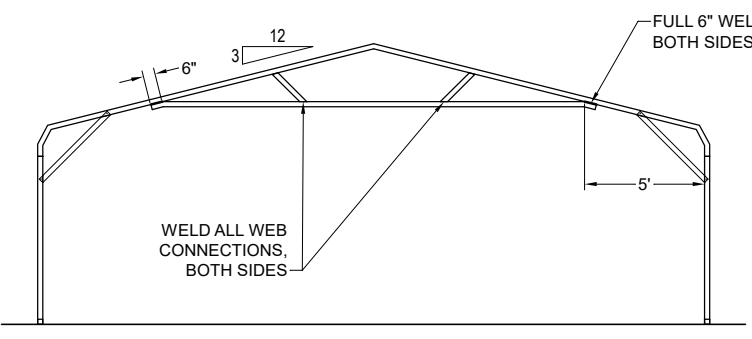
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NOT TO SCALE



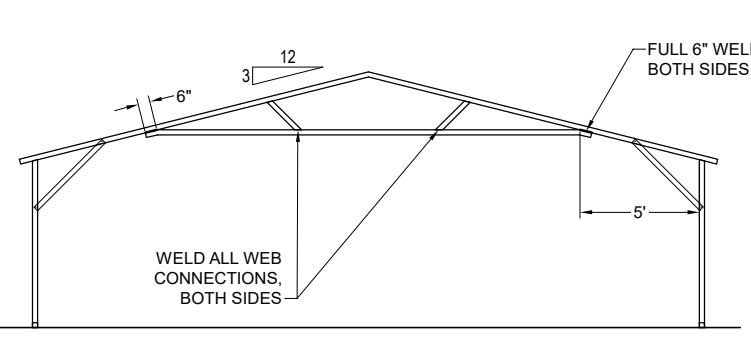
**TYPICAL END WALL OPENINGS POST/RAFTER FRAMING PLAN**  
NOT TO SCALE



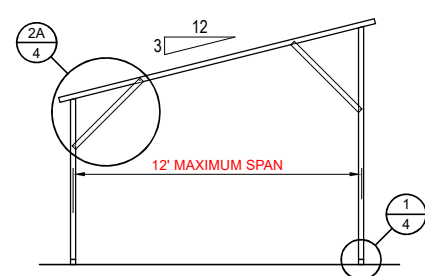
**TYPICAL LEAN-TO OPTIONS FRAMING PLAN (BOTH OPTIONS SHOWN)**  
NOT TO SCALE (BOX EAVE RAFTER SHOWN, ONLY STANDARD LEAN-TO IS APPLICABLE TO BOW FRAME RAFTER)



**OPTIONAL 24'-1\"/>**



**OPTIONAL 24'-1\"/>**

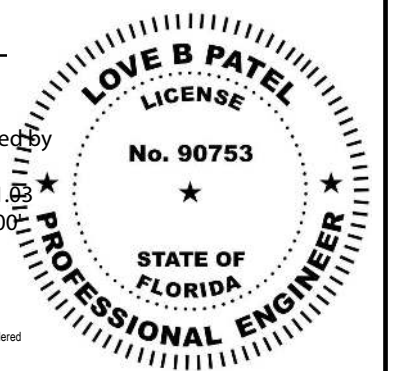


**FREESTANDING LEAN-TO FRAMING PLAN**  
NOT TO SCALE

**BECHTOL ENGINEERING AND TESTING, INC.**  
605 WEST NEW YORK AVENUE  
DELAND, FLORIDA 32720

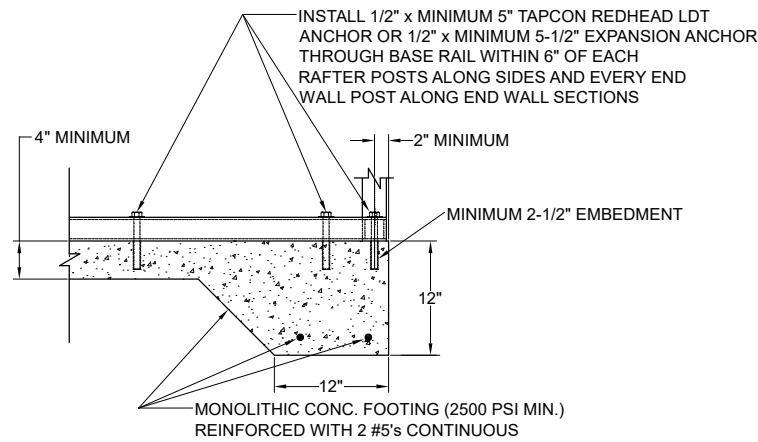
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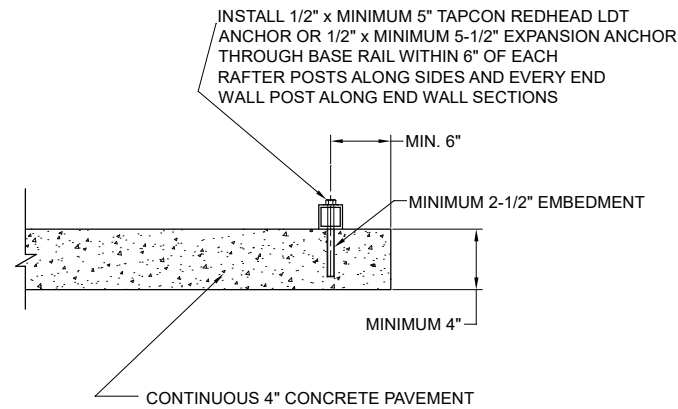


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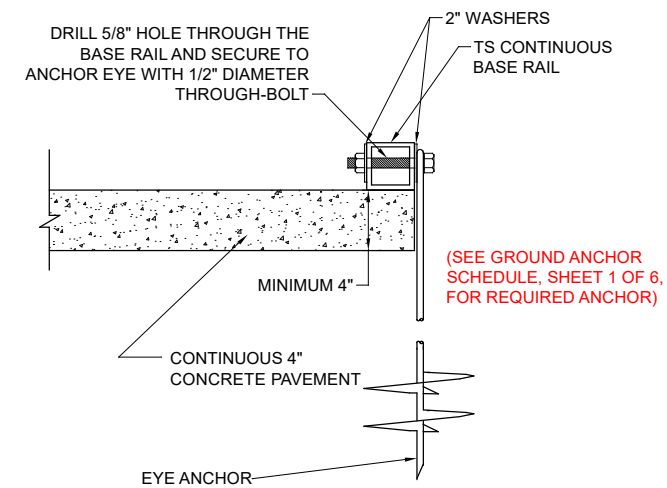
	<b>BECHTOL ENGINEERING AND TESTING, inc.</b> CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS Certificate of Authorization No. 00005492	FIELD: MKB / CS CHECKED: TB / CS APPROVED: TB / LP	DATE: 1/1/2024 SCALE: NTS PROJ. NO: G24001 SHEET 3 OF 6
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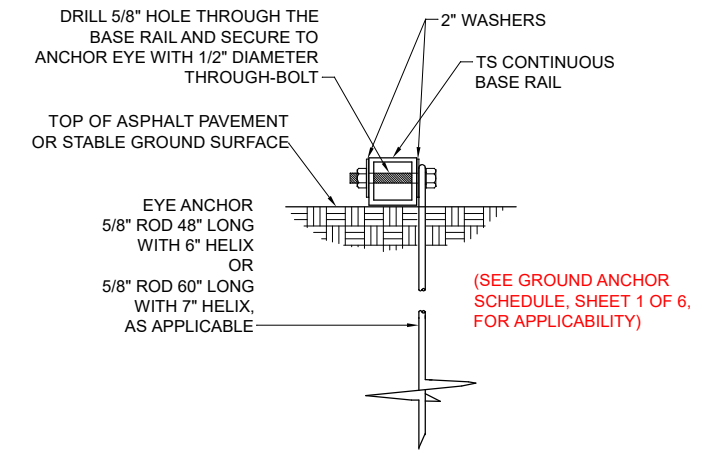
**1A CONCRETE BASE RAIL ANCHORAGE**  
Not To Scale



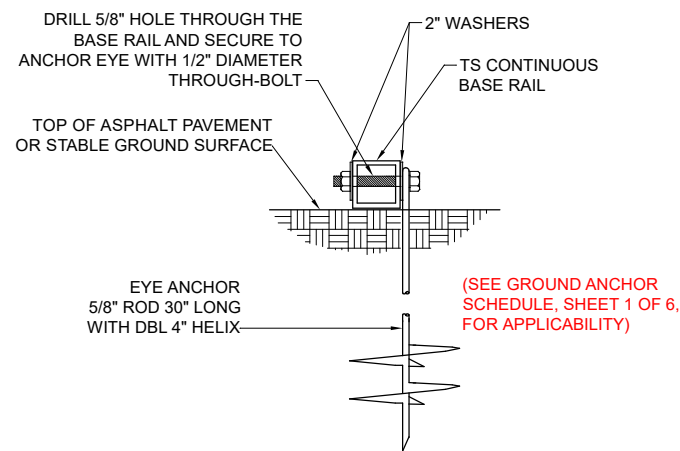
**1B CONCRETE BASE RAIL ANCHORAGE**  
Not To Scale (OPTIONAL - OPEN CARPORTS ONLY)



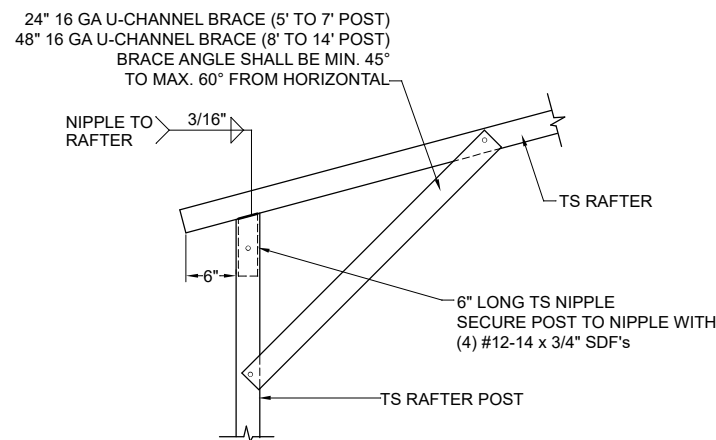
**1C CONCRETE BASE RAIL ANCHORAGE**  
Not To Scale (OPEN CARPORTS WHERE SLAB EDGE DISTANCE DOES NOT MEET MINIMUM EDGE DISTANCE SHOWN IN DETAIL 1B)



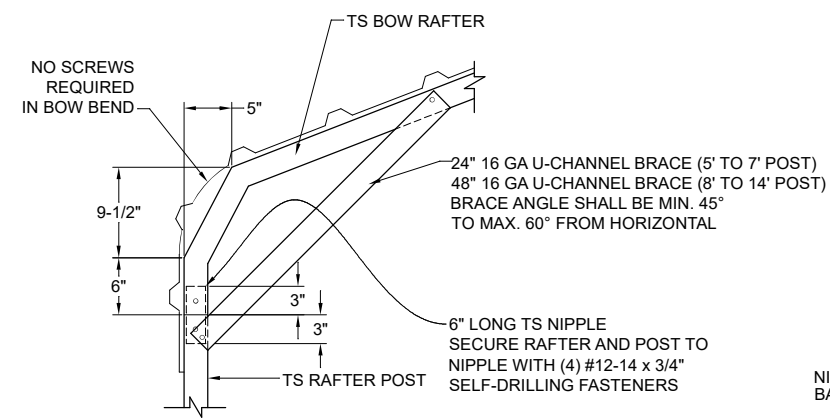
**1D BASE RAIL DEEP ANCHORAGE**  
Not To Scale



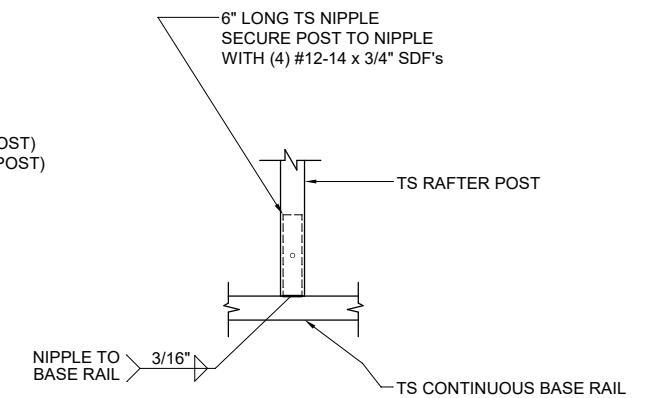
**1E BASE RAIL ANCHORAGE**  
Not To Scale



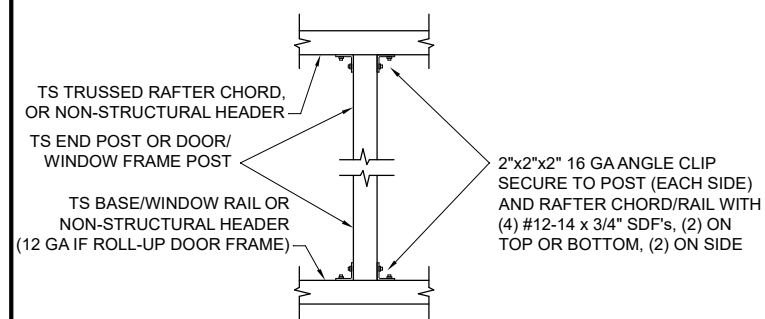
**2A BOX EAVE RAFTER/POST DETAIL**  
Not To Scale



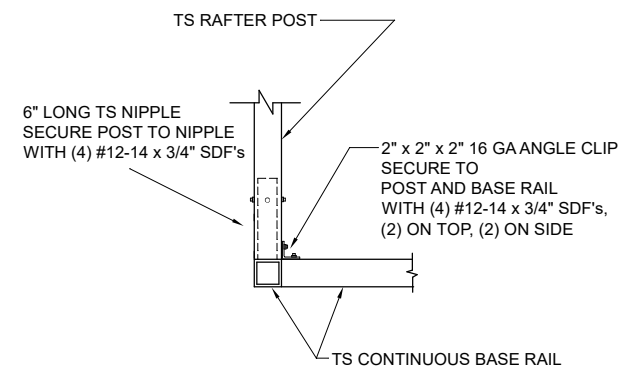
**2B BOW RAFTER/POST DETAIL**  
Not To Scale



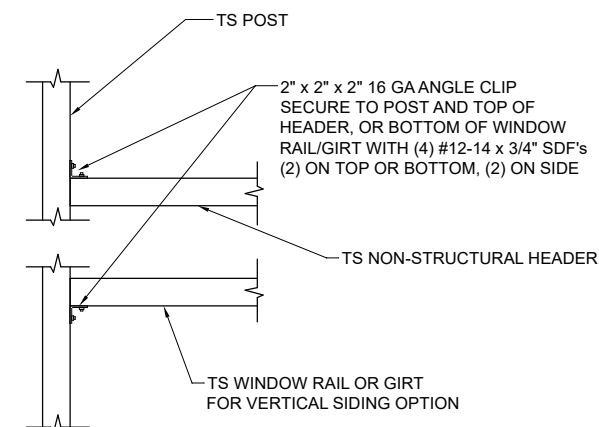
**3 POST/BASE RAIL CONN. DETAIL**  
Not To Scale



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



**5 END POST/BASE RAIL CONN.**  
Not To Scale



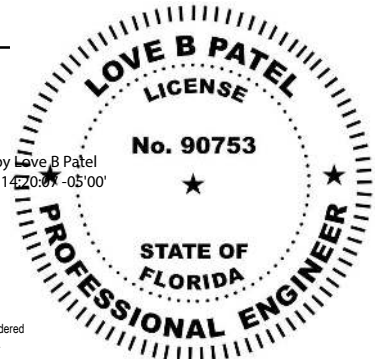
**6 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL**  
Not To Scale

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DELAND, FLORIDA 32720

**Love B Patel**

Love B. Patel, P.E.  
Senior Engineer  
Love B. Patel, P.E., State of Florida,  
Professional Engineer, License No. 90753

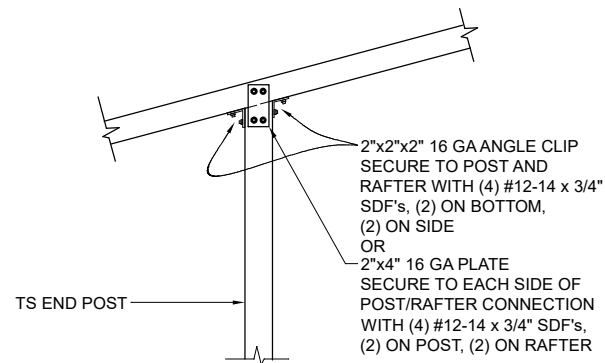
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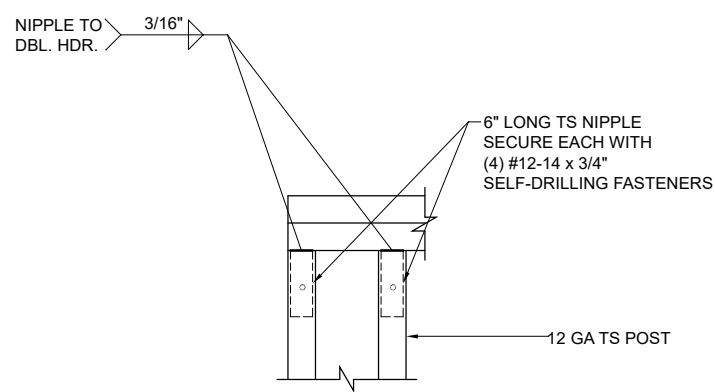
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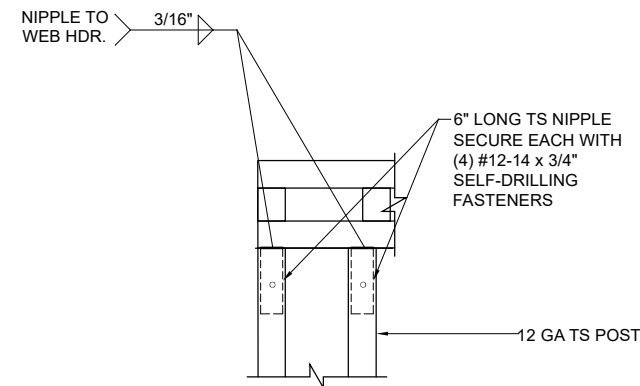
FIELD:	DATE:	1/1/2024
DRAWN: MKB / CS	SCALE:	NTS
CHECKED: TB / CS	PROJ. NO.:	G23001
APPROVED: TB / LP		SHEET 4 OF 6



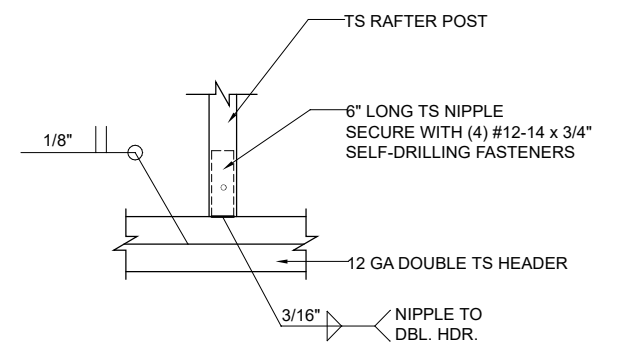
**7** END POST/RAFTER CONN. DETAIL  
Not To Scale



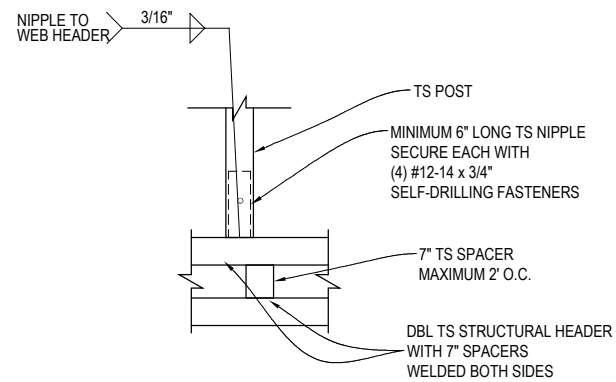
**8A** RAFTER POST/DBL. HEADER DETAIL  
Not To Scale



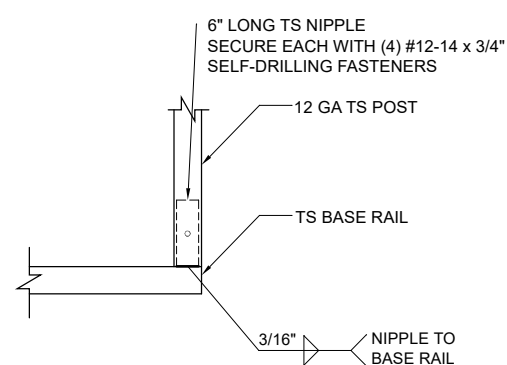
**8B** RAFTER POST/WEB HEADER DETAIL  
Not To Scale



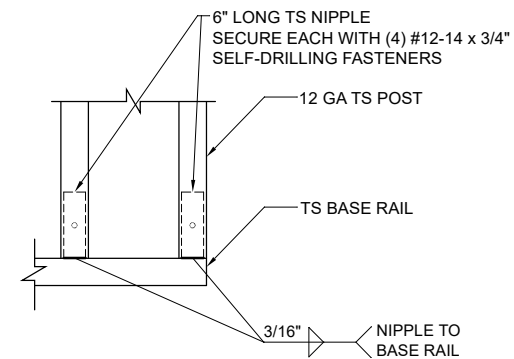
**9A** RAFTER POST/HEADER DETAIL  
Not To Scale



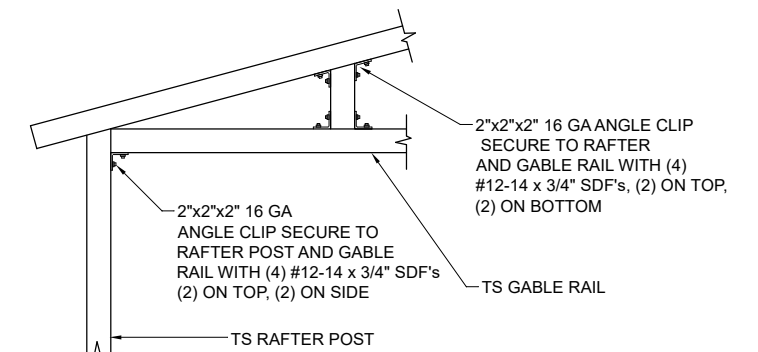
**9B** STRUCTURAL HEADER TO POST CONNECTION DETAIL - HDR TOP  
Not To Scale



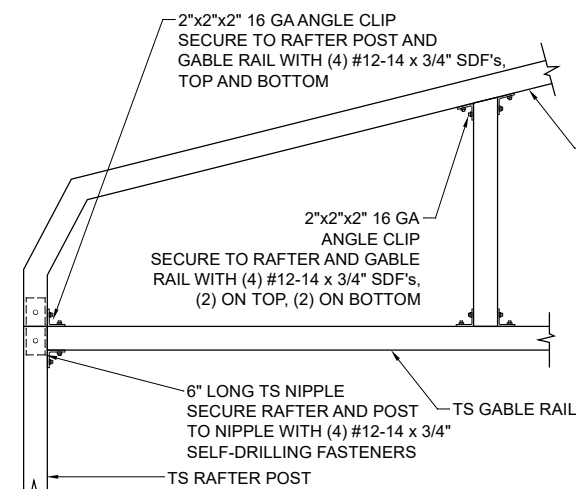
**10A** FRAMEOUT/ ROLL UP POST / BASE RAIL CONN. DETAIL  
Not To Scale



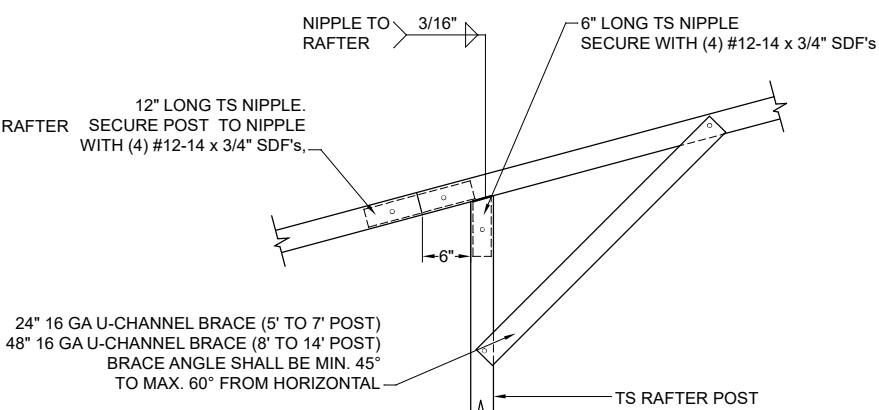
**10B** RAFTER POST/BASE RAIL CONNECTION DETAIL  
Not To Scale



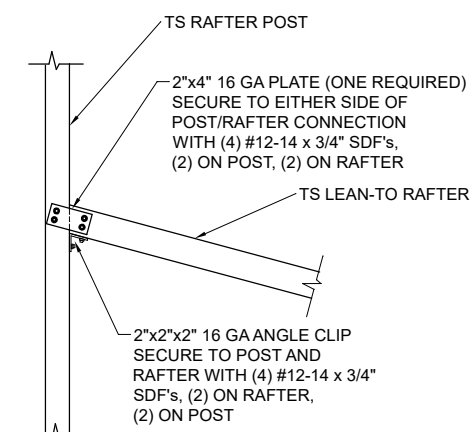
**11A** GABLE RAIL TO RAFTER POST CONNECTION DETAIL  
Not To Scale



**11B** GABLE RAIL TO RAFTER POST CONNECTION DETAIL  
Not To Scale



**12** SIDE EXTENSION RAFTER/POST DETAIL  
Not To Scale



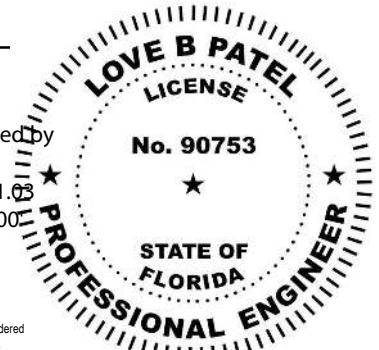
**13** POST / LEAN-TO RAFTER CONN. DETAIL  
Not To Scale

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Love B Patel  
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Date: 2024.01.03 14:20:19 -05'00'

Love B. Patel, P.E.  
Senior Engineer  
Love B. Patel, P.E., State of Florida,  
Professional Engineer, License No. 90753

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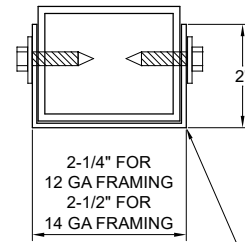


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FIELD:	DATE:	1/1/2024
DRAWN: MKB	SCALE:	NTS
CHECKED: TB / CS	PROJ. NO.:	G23001
APPROVED: TB / LP		SHEET 5 OF 6

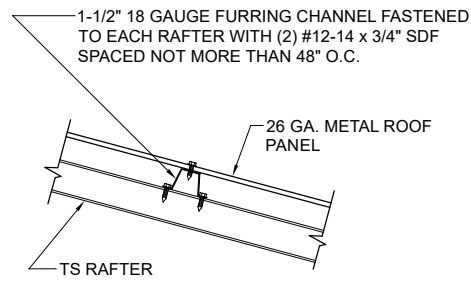
# VERTICAL SIDE OPTION



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)

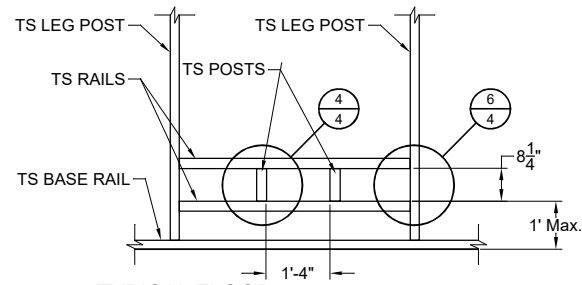
## BRACE SECTION

Not To Scale



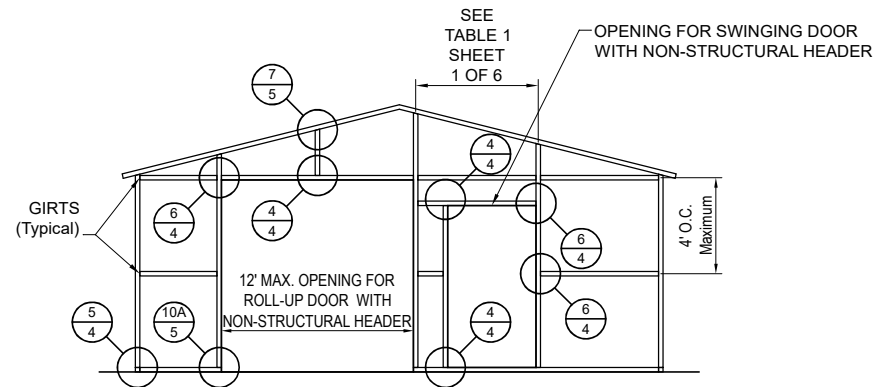
## ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)  
Not To Scale



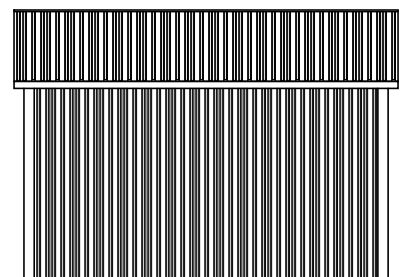
TYPICAL FLOOD VENT FRAMING PLAN  
NOT TO SCALE

SEE GENERAL NOTE No. 12, SHEET 1 OF 6.

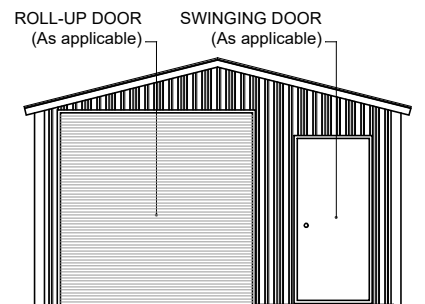


TYPICAL END WALL OPENINGS POST/RAFTER/GIRT FRAMING PLAN  
NOT TO SCALE

## BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES

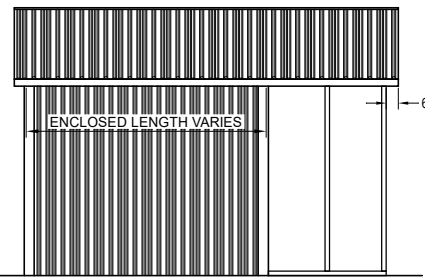


TYPICAL SIDE ELEVATION  
NOT TO SCALE

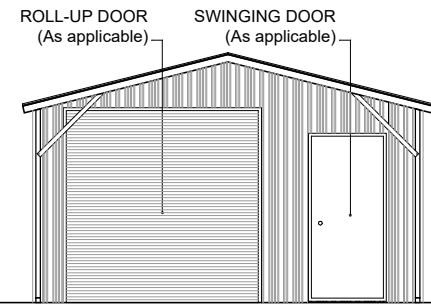


TYPICAL END ELEVATION  
NOT TO SCALE

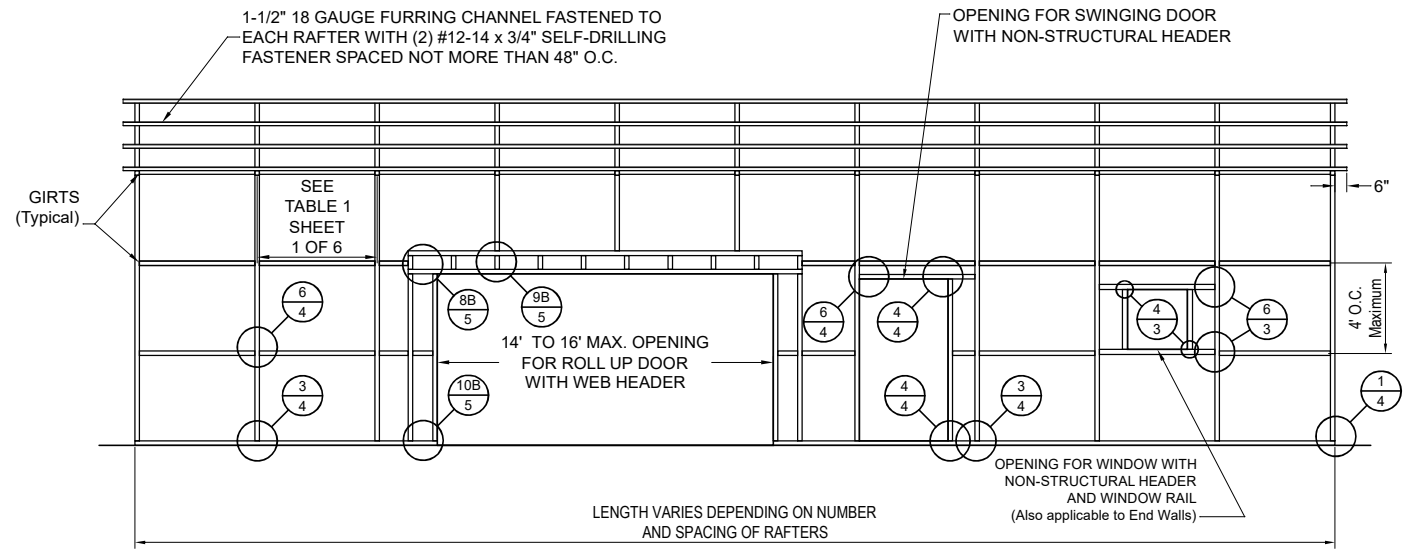
## BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES



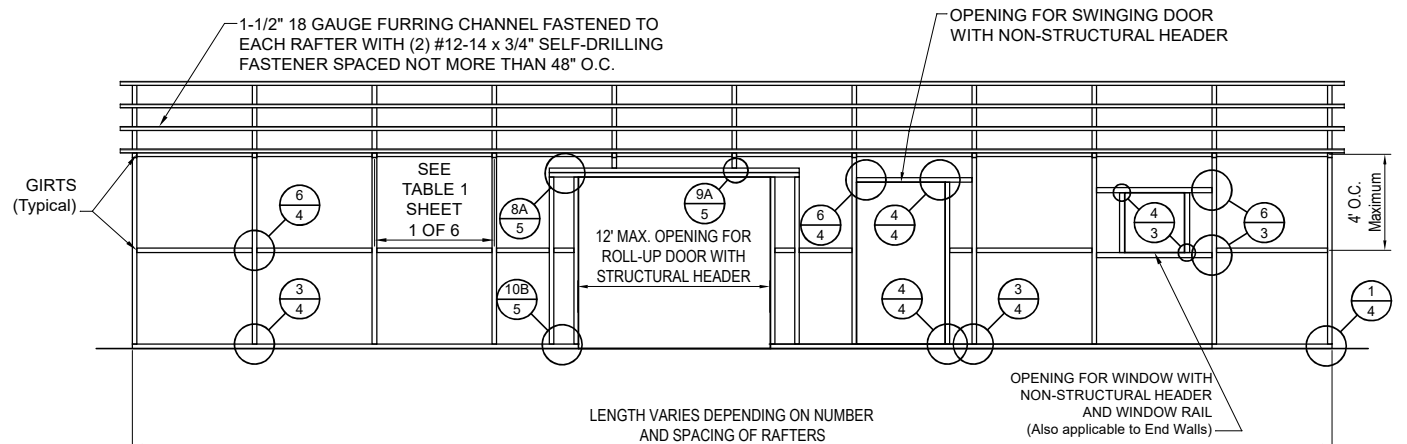
TYPICAL SIDE ELEVATION  
NOT TO SCALE



TYPICAL END ELEVATION  
NOT TO SCALE



TYPICAL POST/RAFTER/GIRT FRAMING PLAN  
NOT TO SCALE



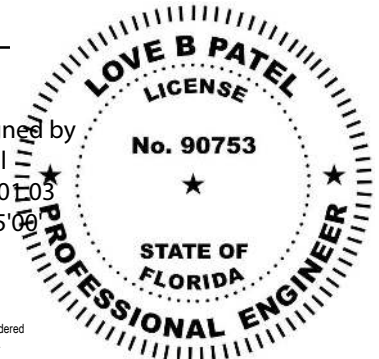
TYPICAL POST/RAFTER/GIRT FRAMING PLAN  
NOT TO SCALE

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Love B Patel  
Date: 2024.01.03  
14:20:34 -05'00'

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