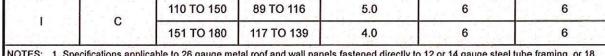
FBC APPROVED PRODUCTS LIST				MAXIMUM ALLOWABLE WIND SPEED			RAFTER		
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	OPEN	ENCLOSED	PARTIALLY ENCLOSED		
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596.1-R6 12/15/20	04/05/27	180	180	180	RISK	
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702.1-R6 12/15/20	03/14/27	180	180	180	CATEGORY	-
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	1	
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	NOTES: 1. Sp	ug
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996.3-R2 02/28/21	08/26/25	N/A	139	139	2. Sp red	qu
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R2 02/28/21	08/19/25	N/A	174	155	110	
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12' Max. Width)	FL8888.1-R6 02/09/21	12/31/23	N/A	180	174	12	
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door (12' Max. Width)	FL16806.1-R5 12/16/20	04/05/27	N/A	179	154	A COLUMN TO SERVICE AND ADDRESS OF THE PARTY	De
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	(ee) 16 20 22 24 26 26	I
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (16' Max. Width)	FL16806.3-R5 12/16/20	04/05/27	N/A	155	133	9NIQ 24 24	-
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	26 28	+
WINDOWS	SINGLE HUNG	PGT INUSTRIES Model SH7700	FL239.4-R28 11/11/20	10/17/23	N/A	180	178	30 DETAILS 1	C

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



NOMINAL

WIND SPEED

(MPH)

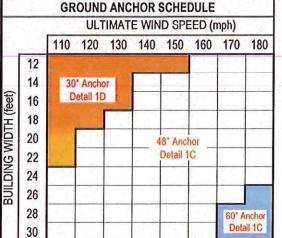
- IOTES: 1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18 gauge hat channel roof purlins
 - 2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7° to 27° (1.5:12 to 6:12 pitch).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

MAXIMUM

POST / RAFTER

SPACING

(FEET)



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

WIND

EXPOSURE

CATEGORY

ULTIMATE

WIND SPEED

(MPH)

FOR CONSTRUCTION IN THE STATE OF FLORIDA

METAL CARPORT INSTALLATION PLANS

AND DETAILS AND FRAMING AND **FASTENER SPECIFICATIONS**

AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS

(INCHES)

POSTS/RAFTERS POSTS/RAFTERS

END

Reviewed

for Code

Compliance

INTERIOR

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

A PRODUCT SHALL HAVE A VALID FBC PRODUCT APPROVAL COMPONENTS ARE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQURIEMENTS

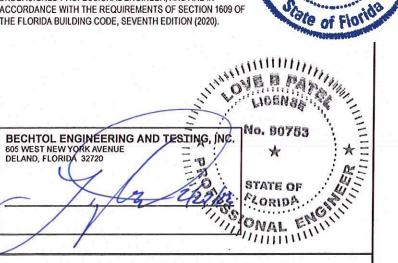
" MAXIMUM POST SPACING FOR DUTCH LAP IS 4.0"

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 ACCOMPDIATE SUBSTITUTED PRODUCT

GENERAL NOTES:

- 1 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.
- 2. 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
- 3. ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL OR ZINC PLATED.
- 4. 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.
- 5. 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.
- 7. 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 TYPE GROUND ANCHOR REQUIREMENTS.
- 8. 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.
- 9. POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.
- 10. SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FBC SEVENTH EDITION (2020) RESIDENTIAL, AND SECTION 1816.1 OF THE FBC SEVENTH EDITION (2020) - BUILDING. MINIMUM ALLOWABLE FOUNDATION SOIL CONTACT BEARING PRESSURE OF 2,000 PSF IS ASSUMED.
- 11. 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.
- 12. 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.

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, SEVENTH EDITION (2020).

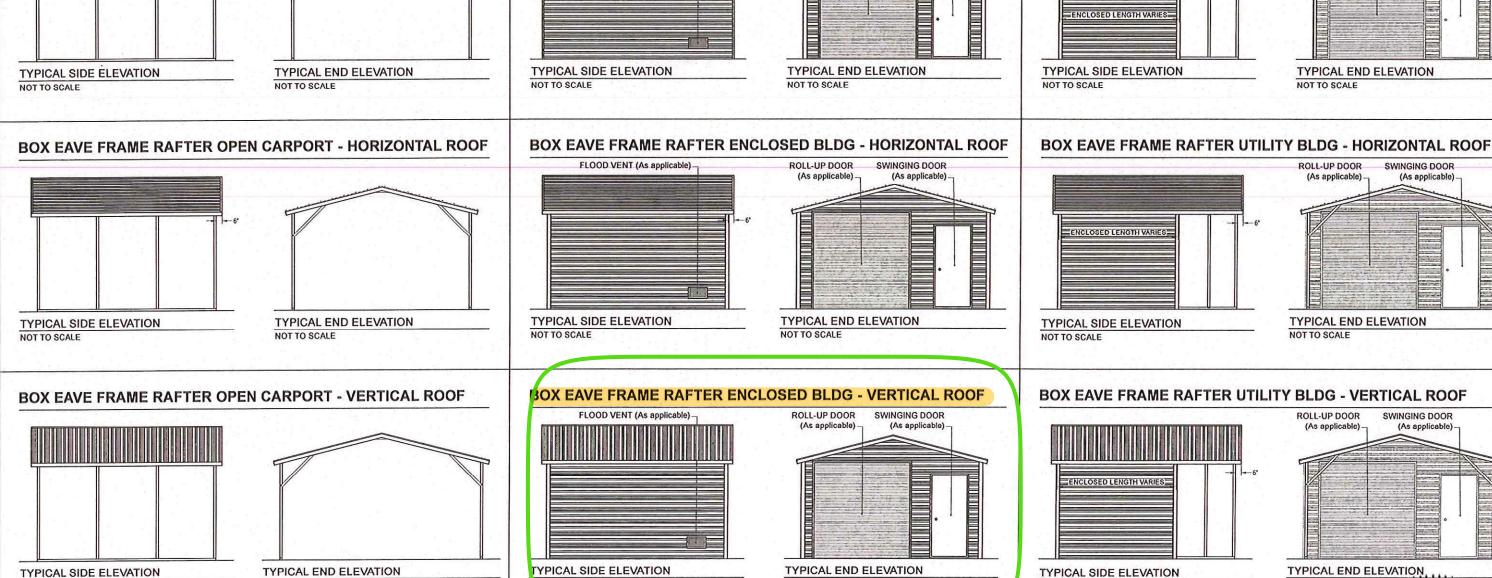


CAROLINA CARPORTS, INC. GENERIC PLANS FOR USE IN THE STATE OF FLORIDA



FELD	DATE	2/21/2023	
MKB	SCALE	NTS	
CHECKED TB/CS	PROJ NO	G23001	
APPROVED TB/LP	SHEET 1 OF 6		

BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF TYPICAL END ELEVATION TYPICAL SIDE ELEVATION NOT TO SCALE NOT TO SCALE **BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF**



FLOOD VENT (As applicable) -

BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF

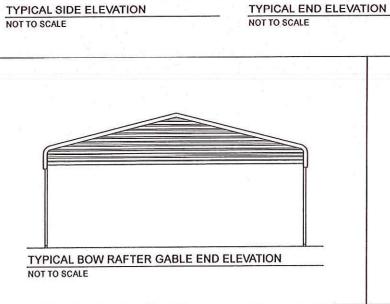
ROLL-UP DOOR

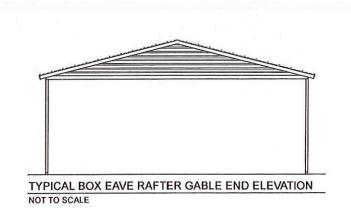
NOT TO SCALE

(As applicable)

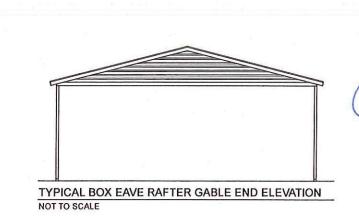
SWINGING DOOR

(As applicable)





OT TO SCALE



NOT TO SCALE



CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEER: Certificate of Automotive on No. 00005492

BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF

ROLL-UP DOOR

(As applicable)

(As applicable)

(As applicable

SWINGING DOOR

SWINGING DOOR (As applicable)

SWINGING DOOR

(As applica

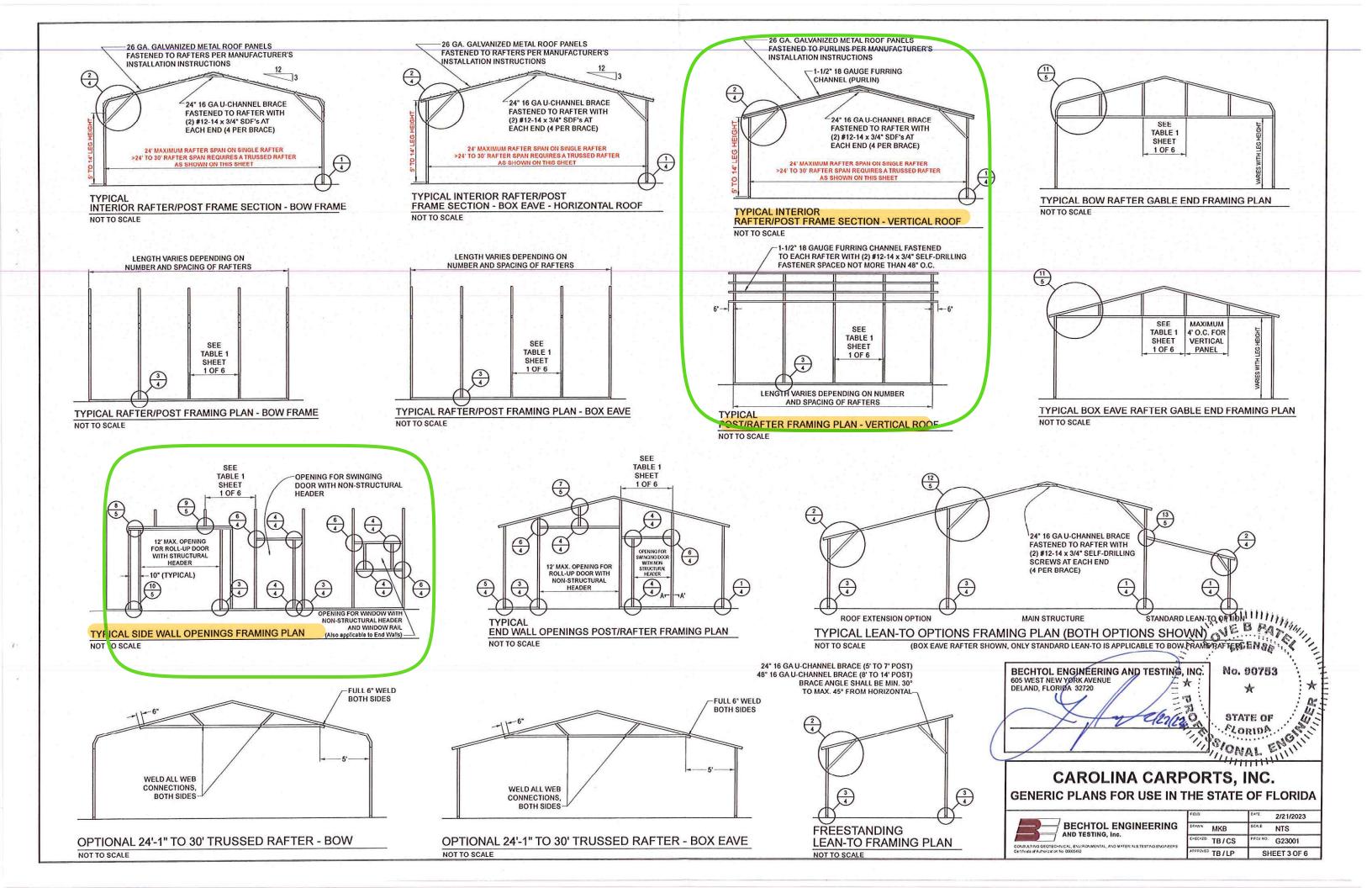
TB/CS

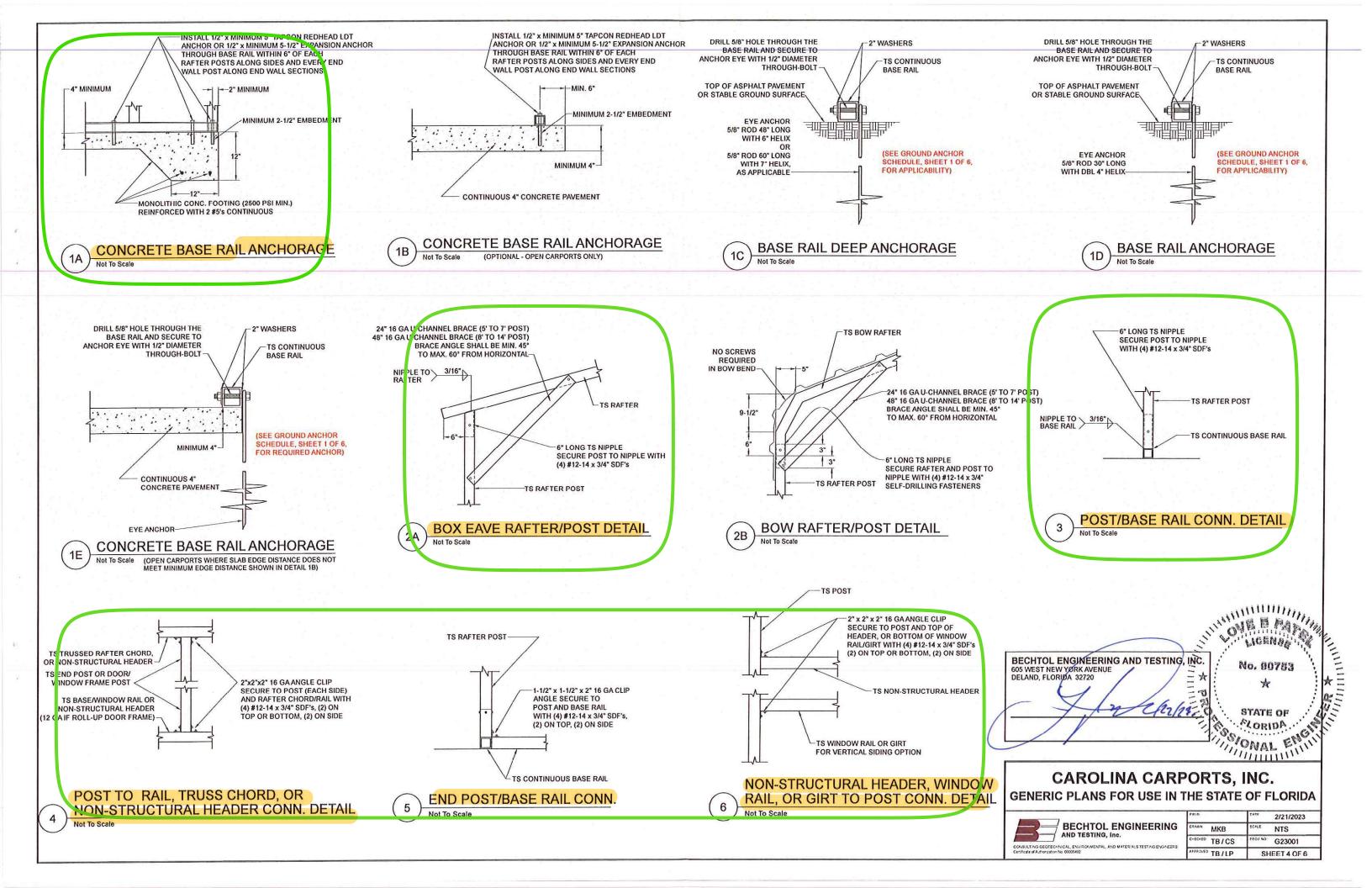
TB/LP

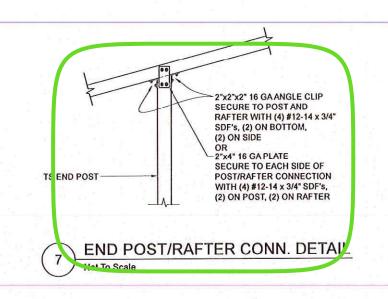
G23001

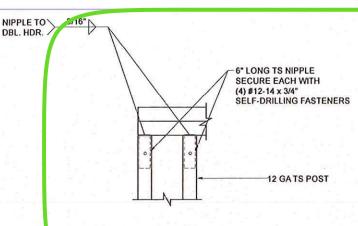
SHEET 2 OF 6

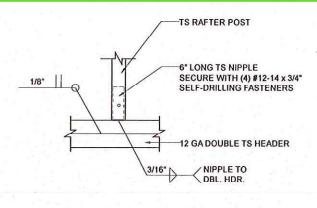
(As applicable)

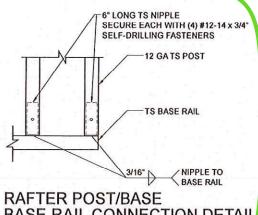










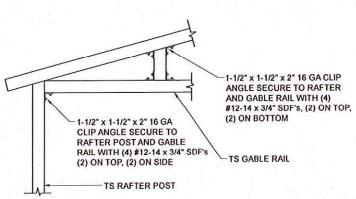


RAFTER POST/DBL. HEADER DETAIL

Not To Scale

RAFTER POST/HEADER DETAIL

BASE RAIL CONNECTION DETAIL



CONNECTION DETAIL

GABLE RAIL TO RAFTER POST

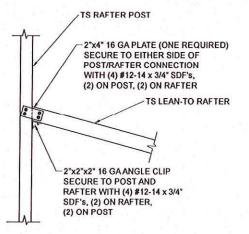
11B

1-1/2" x 1-1/2" x 2" 16 GA CLIP ANGLE SECURE TO RAFTER POST AND GABLE RAIL WITH (4) #12-14 x 3/4" SDF's TOP AND BOTTOM 1-1/2" x 1-1/2" x 2" 16 GA CLIP ANGLE-SECURE TO RAFTER AND GABLE RAIL WITH (4) #12-14 x 3/4" SDF's, (2) ON TOP, (2) ON BOTTOM 6" LONG TS NIPPLE TS GABLE RAIL SECURE RAFTER AND POST TO NIPPLE WITH (4) #12-14 x 3/4" SELF-DRILLING FASTENERS TS RAFTER POST

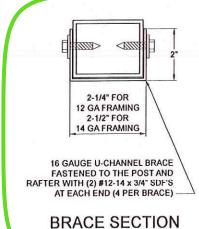
GABLE RAIL TO RAFTER POST CONNECTION DETAIL Not To Scale

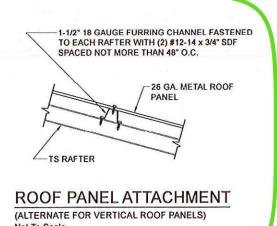
NIPPLE TO 3/16" -6" LONG TS NIPPLE RAFTER SECURE WITH (4) #12-14 x 3/4" SDF's 12" LONG TS NIPPLE. SECURE POST TO NIPPLE WITH (4) #12-14 x 3/4" SDF's, 24" 16 GAU-CHANNEL BRACE (5' TO 7' POST) 48" 16 GA U-CHANNEL BRACE (8' TO 14' POST) BRACE ANGLE SHALL BE MIN. 45° TO MAX. 60° FROM HORIZONTAL TS RAFTER POST

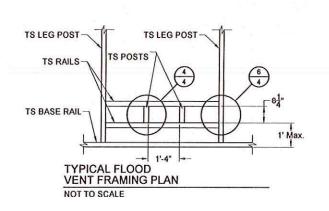
> SIDE EXTENSION RAFTER/POST DETAIL



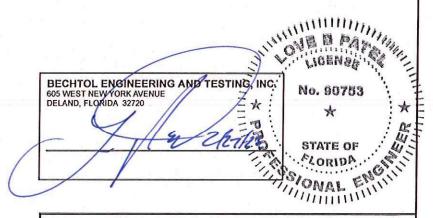
POST / LEAN-TO RAFTER CONN. DETAIL







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

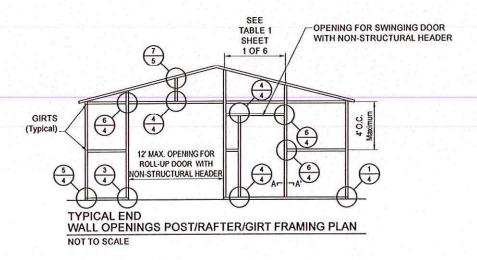


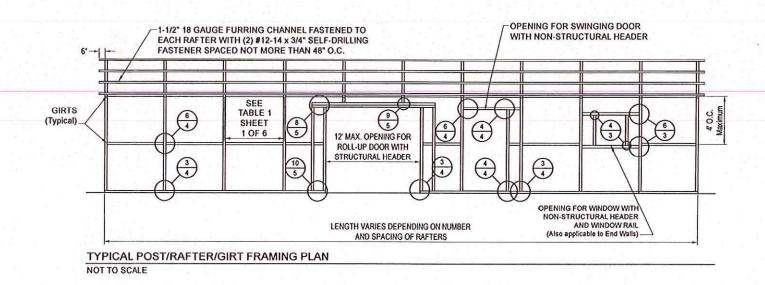
CAROLINA CARPORTS, INC. GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING
AND TESTING, Inc.

	FELD	PATE 2/21/2023		
NG	CRAWN MKB	SCALE NTS		
SINEERS	CHECKED TB/CS	FROJ NO. G23001		
NIVEENS	APPROVED TB/LP	SHEET 5 OF 6		

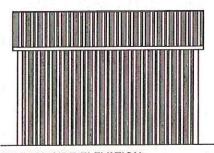
VERTICAL SIDE OPTION



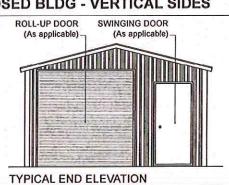


BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES

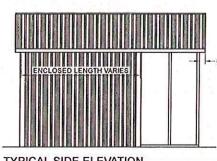
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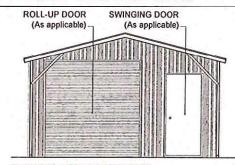
TYPICAL SIDE ELEVATION
NOT TO SCALE



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES



TYPICAL SIDE ELEVATION NOT TO SCALE



TYPICAL END ELEVATION
NOT TO SCALE

BECHTOL ENGINEERING AND TESTING, INC.

605 WEST NEWYORK AVENUE
DELAND, FLORIDA 32720

STATE OF
FLORIDA

ONAL

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



FELD	2/21/2023
CEANN MKB	SCALE NTS
CHECKED TB/CS	FROJ NO: G23001
APPROVED TB/LP	SHEET 6 OF 6