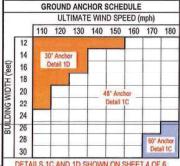
	FBC APF	PROVED PRODUCTS LIST		and the	M	AXIMUM ALLO WIND SPE		
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	OPEN	ENCLOSED	PARTIALLY ENCLOSED	
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596.1-R6 12/15/20	04/05/27	180	180	180	1
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702.1-R6 12/15/20	03/14/27	180	180	180	C
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	ı
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	NO
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996.3-R2 02/28/21	08/26/25	N/A	139	139	L
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R2 02/28/21	08/19/25	N/A	174	155	F
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12' Max. Width)	FL8888.1-R6 02/09/21	12/31/21	N/A	180	174	
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	(seet)
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	(IDTH
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	BUILDING WIDTH ('eet)
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	BOIL
WINDOWS	SINGLE HUNG	MI WINDOWS AND DOORS Model 185SH	FL17499.1-R8 11/27/20	10/17/23	N/A	175	157	

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

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

- IOTES: 1, Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18
  - 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.



#### 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

- I 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 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 ACCOMPOSATE 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.
- 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.
- 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.
- 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.
- 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.
- 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).

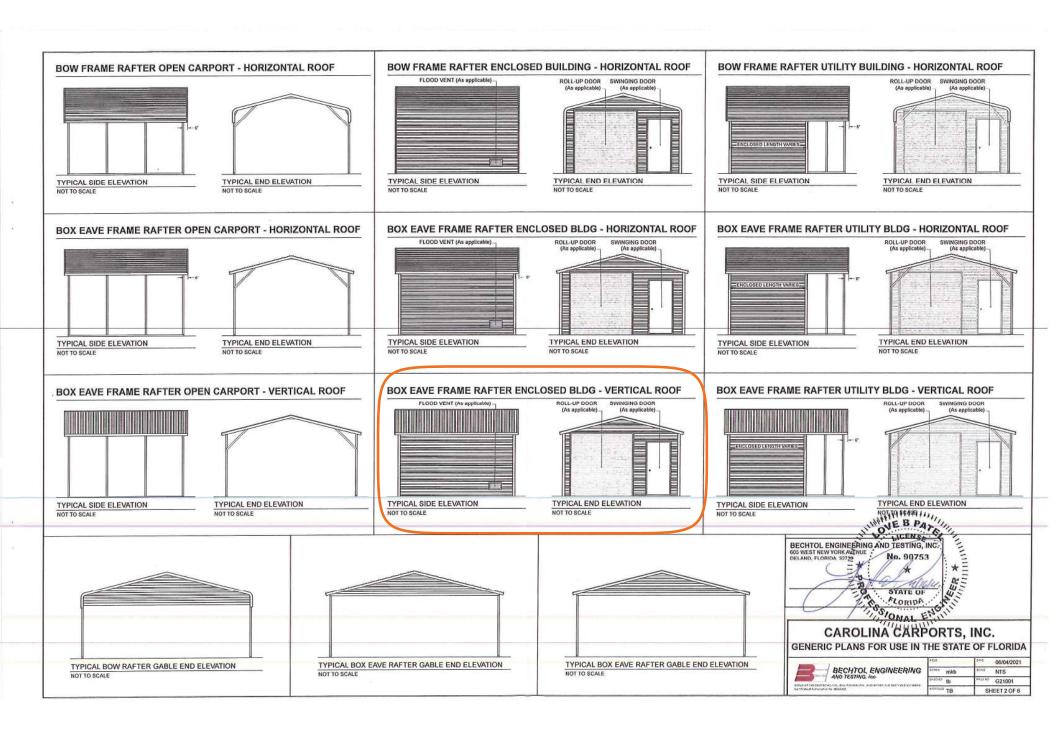


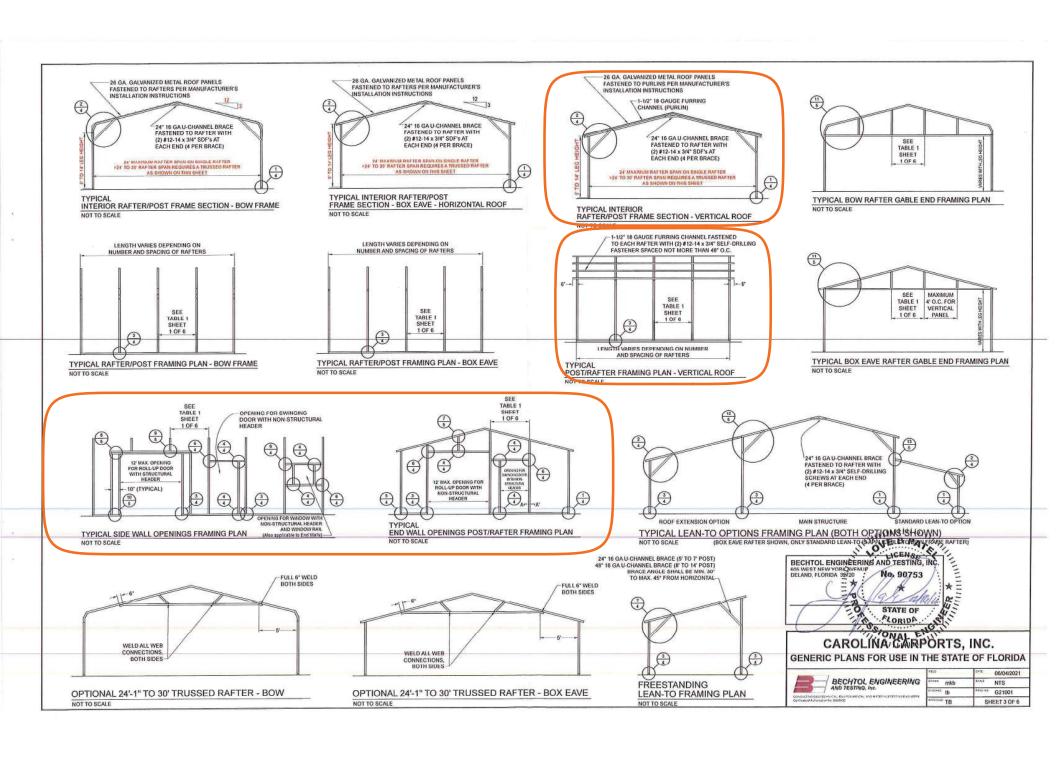


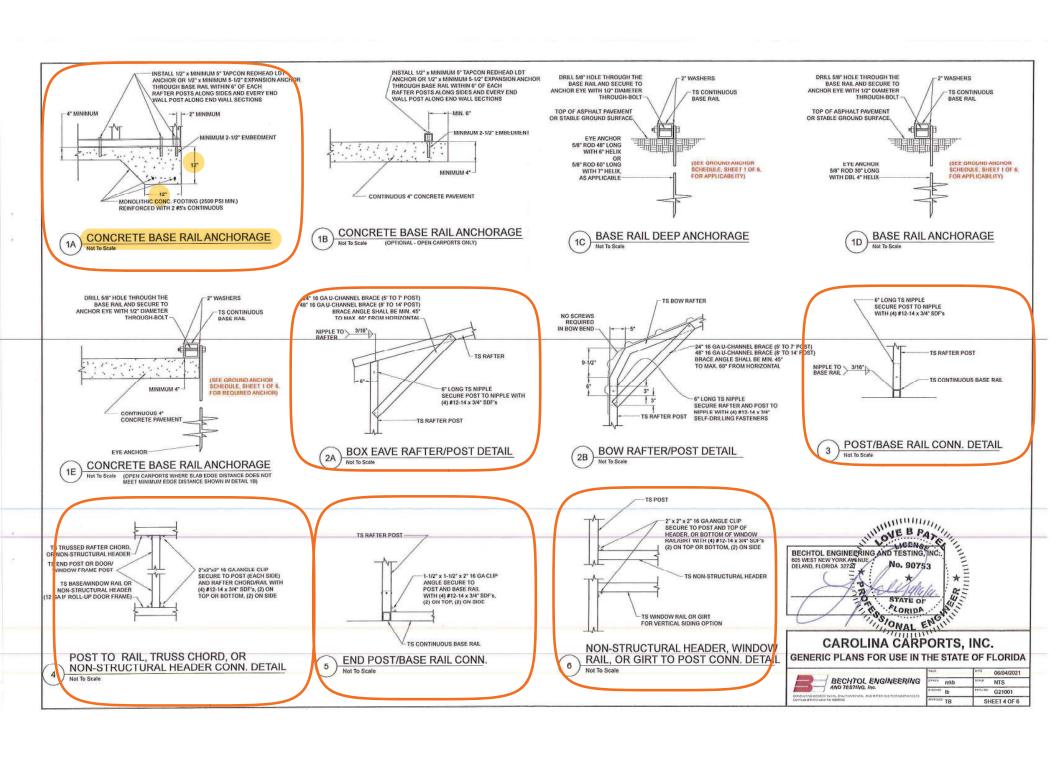
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

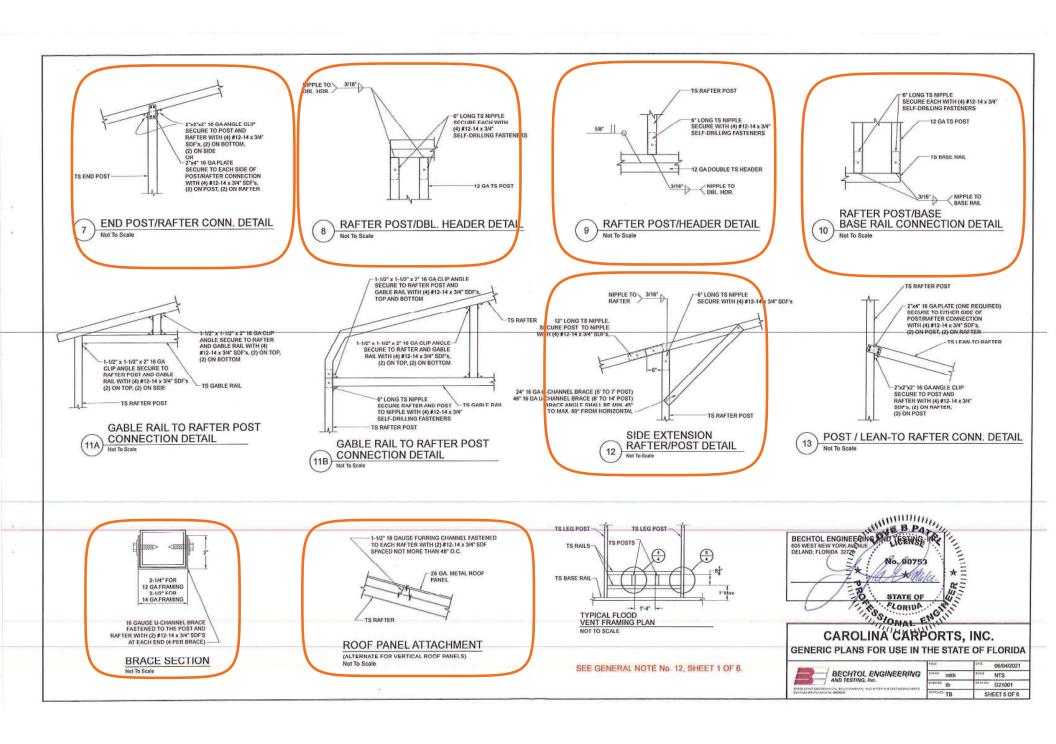
8	BECHTOL ENGINEERING
5010070000	STEEPINGS, ENGINEERING, NO STEEL AS TEITHORISMANSES

PHELO	06/04/2021
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c-to-til fp	#101NO G21001
arrests TB	SHEET 1 OF 6

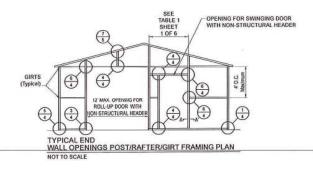


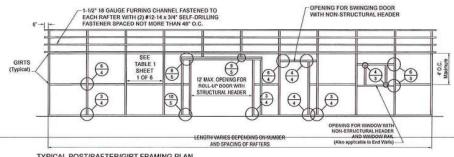






# **VERTICAL SIDE OPTION**





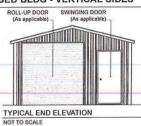
TYPICAL POST/RAFTER/GIRT FRAMING PLAN

NOT TO SCALE

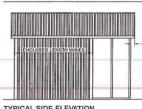
## **BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES**



TYPICAL SIDE ELEVATION NOT TO SCALE



### **BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES**



TYPICAL SIDE ELEVATION NOT TO SCALE



NOT TO SCALE



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

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Central district	BOHNICAL BUURONWENTAL AND WHEN ALETESTANDENGABERS BOTAL 00005492

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