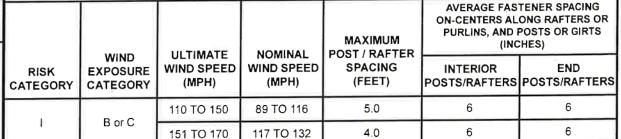
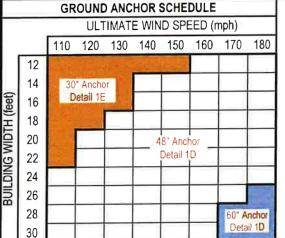
FBC APPROVED PRODUCTS LIST				WIND SPEED				
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	OPEN	ENCLOSED	PARTIALLY ENCLOSED	
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596.1-R7 12/12/23	04/05/27	180	180	180	
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702.1-R7 12/12/23	03/14/27	180	180	180	Ľ
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Dutch Lap Wall Panel	FL6702.3-R7 12/12/23 **	03/14/27	N/A	164	143	
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CRAWL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL29622.1-R2 07/24/24	09/30/25	N/A	N/A	N/A	Ν
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996.3-R3 12/26/23	08/26/25	N/A	139	139	H
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R3 12/26/23	08/19/25	N/A	174	155	Ī
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door (8' Max. Width)	FL16806.2-R6 12/13/23	04/05/27	N/A	180	180	
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (10' Max. Width)	FL16806.4-R6 12/13/23	04/05/27	N/A	180	172	(foot)
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (12' Max. Width)	FL16806.1-R6 12/13/23	04/05/27	N/A	179	154	
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (16' Max. Width)	FL41335.1-R1 12/13/23	04/05/27	N/A	163	142	RI III DING WIDTH
WINDOWS	SINGLE HUNG	CGI WINDOWS AND DOORS Model SH 4000A	FL23358.2-R8 04/16/24	12/31/32	N/A	174	156	B

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



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.



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

MAXIMUM ALLOWABLE

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:

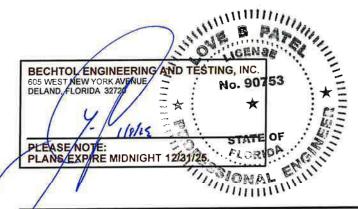
BECHTOL ENGINEERING AND TESTING, INC. 605 WEST NEW YORK AVENUE DELAND, FLORIDA 32720 Certificate of Authorization No. 00005492

- 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 APPRO
- B. COMPONENTS ARE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS C. MEETS AND OR EXCEEDS THE MINIMUM DESIGN CRITERIA OF THE ABOVE APPROVED PRODUCT LIST.
- 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 ** 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.
- 2. THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITY/STORAGE BUILDINGS (RISK CATEGORY I ONLY) 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
- 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.
- 8. 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.
- 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.
- 12. 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 I OR RISK I 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 (2023) - BUILDING, AND ASCE 7-22.
- 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 6 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, EIGHTH EDITION (2023).

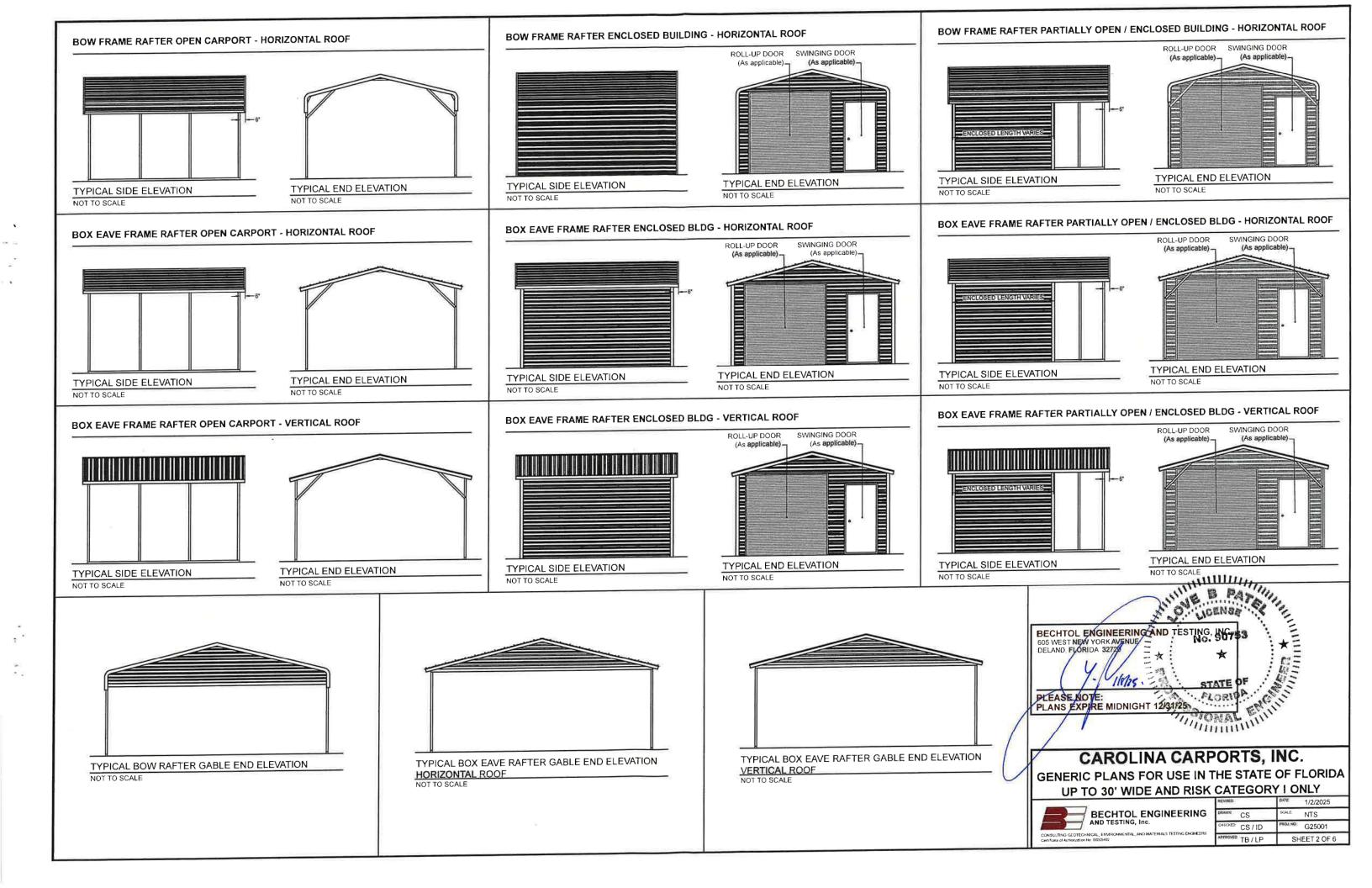


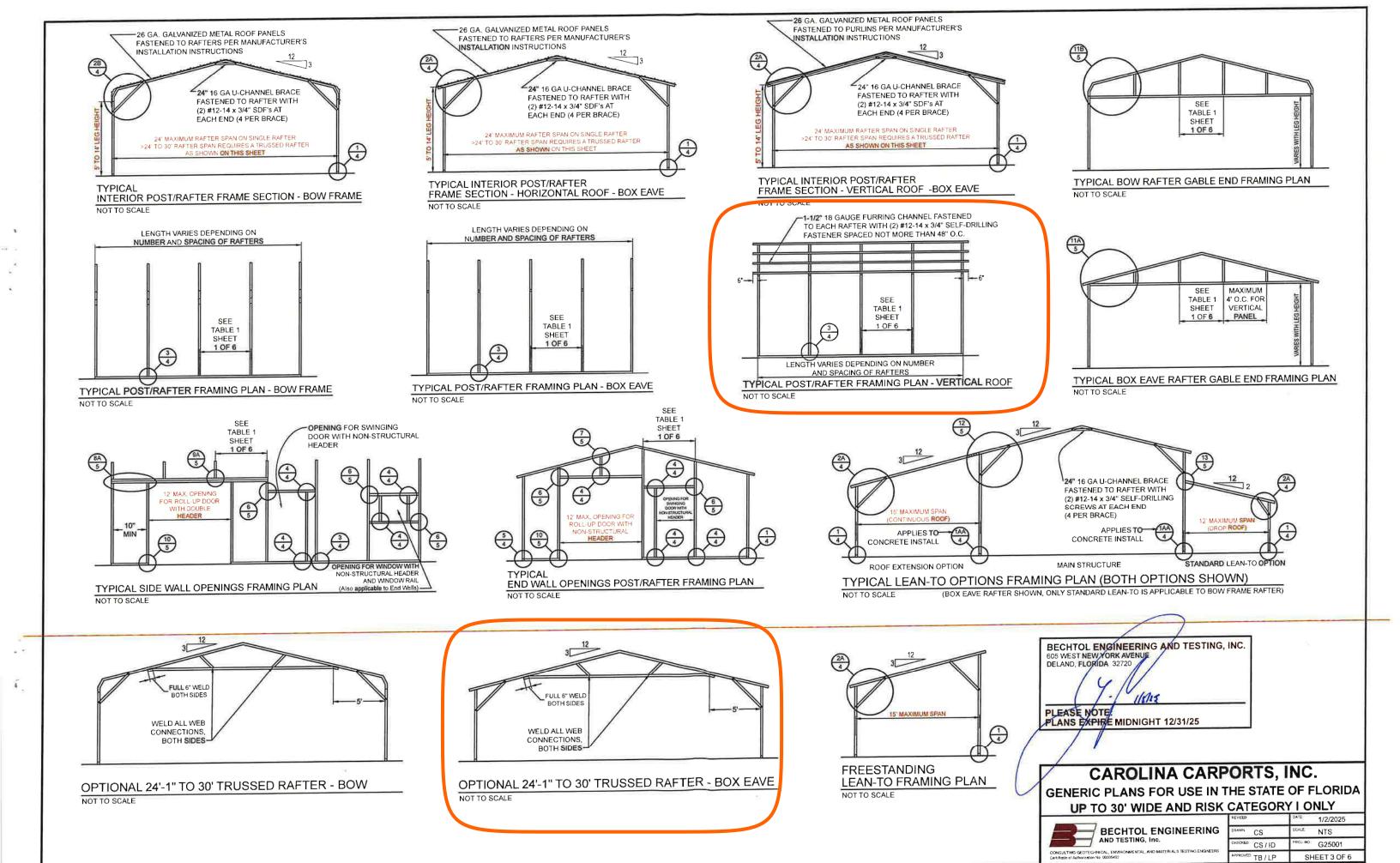
CAROLINA CARPORTS, INC.

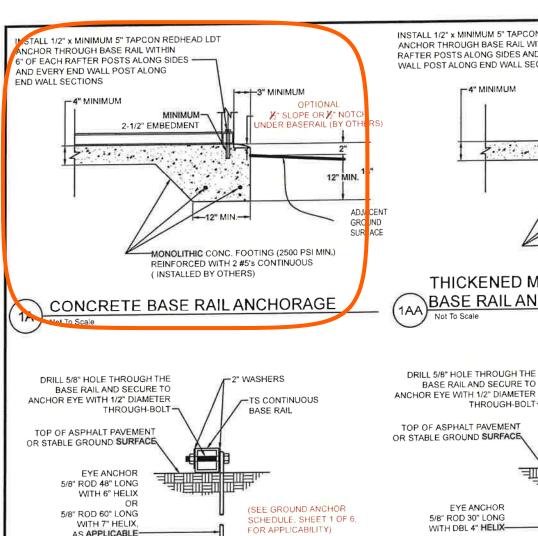
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA UP TO 30' WIDE AND RISK CATEGORY I ONLY

BECHTOL ENGINEERING	ŀ
AND TESTING, Inc.	ľ
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS	ŀ

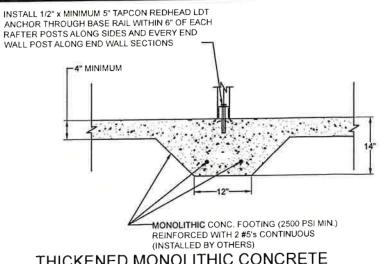
	REVISED.	1/2/2025			
	DRAWN CS	SCALE: NTS			
ĺ	CS/ID	PROJ NO: G25001			
	APPROVED. TB / LP	SHEET 1 OF 6			







BASE RAIL DEEP ANCHORAGE



INSTALL 1/2" x MINIMUM 5" TAPCON REDHEAD LDT ANCHOR OR 1/2" x MINIMUM 5-1/2" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER POSTS ALONG SIDES AND EVERY END WALL POST ALONG END WALL SECTIONS MINIMUM 2-1/2" EMBEDMENT MINIMUM 4"-CONTINUOUS 4" CONCRETE PAVEMENT (INSTALLED BY OTHERS)



2B



MINIMUM 4"-

DRILL 5/8" HOLE THROUGH THE

ANCHOR EYE WITH 1/2" DIAMETER

BASE RAIL AND SECURE TO

CONTINUOUS 4" CONCRETE PAVEMENT

FYF ANCHOR-

(INSTALLED BY OTHERS)

THROUGH-BOLT

-2" WASHERS

BASE RAIL

-TS CONTINUOUS

SEE GROUND ANCHOR SCHEDULE, SHEET 1 OF 6,

FOR REQUIRED ANCHOR)

THICKENED MONOLITHIC CONCRETE BASE RAIL ANCHORAGE FOR SHARED POST

-2" WASHERS

THROUGH-BOLT

EYE ANCHOR

TS CONTINUOUS

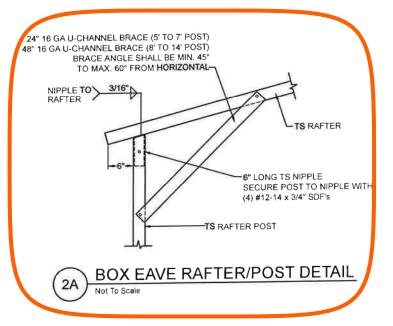
(SEE GROUND ANCHOR

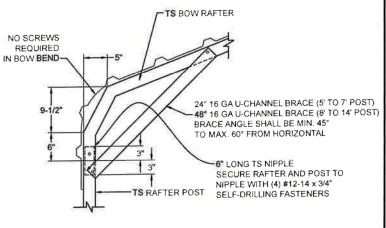
FOR APPLICABILITY)

SCHEDULE, SHEET 1 OF 6.

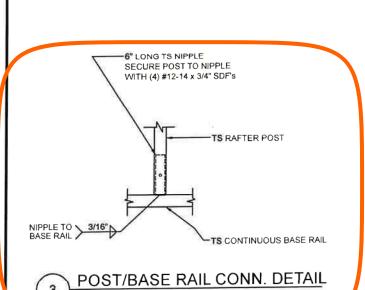
BASE RAIL

CONCRETE BASE RAIL ANCHORAGE (OPTIONAL - OPEN CARPORTS ONLY)

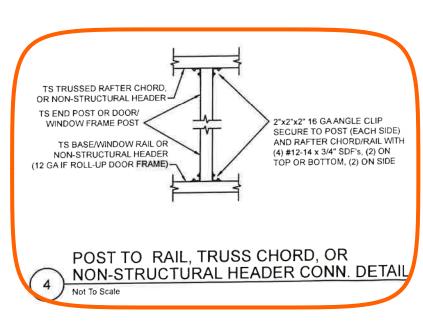




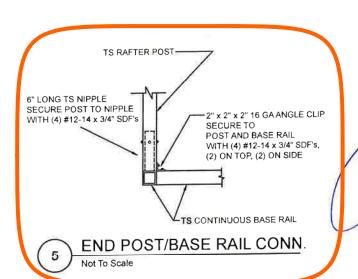
BOW RAFTER/POST DETAIL



1D



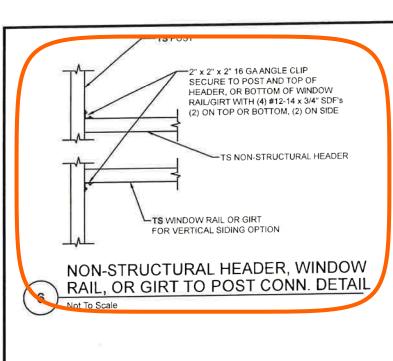
BASE RAIL ANCHORAGE

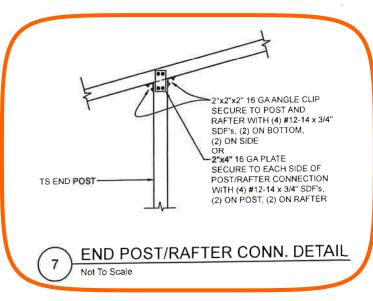


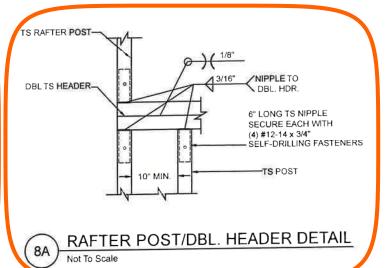


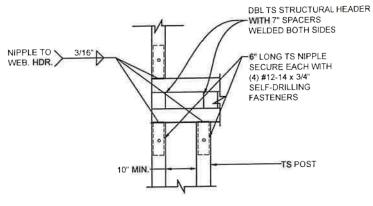
CAROLINA CARPORTS, INC. GENERIC PLANS FOR USE IN THE STATE OF FLORIDA UP TO 30' WIDE AND RISK CATEGORY I ONLY

	REVISED	1/2/2025	
DECITION ENGINEERING	DRAWN CS	SCALE: NTS	
AND TESTING, Inc.	CHECKED CS/ID	PROJ NO: G25001	
ILTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS de di Authorization No. 00005492	APPROVED: TB / LP	SHEET 4 OF 6	



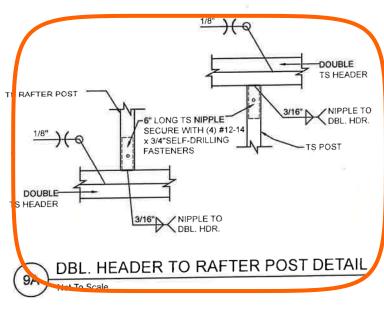


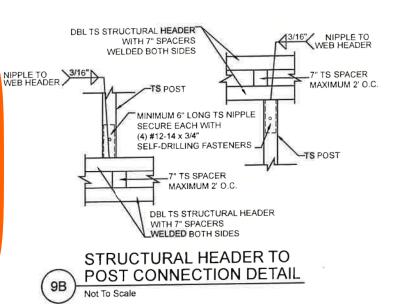


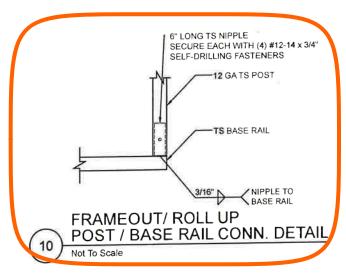


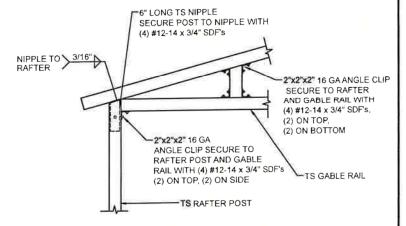
RAFTER POST/WEB HEADER DETAIL

Not To Scale

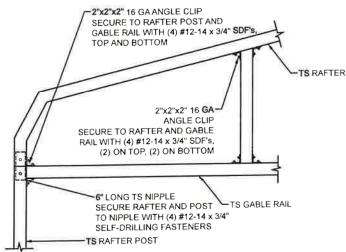






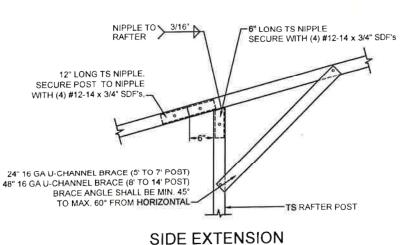


GABLE RAIL TO RAFTER POST
CONNECTION DETAIL - BOX EAVE
Not To Scale

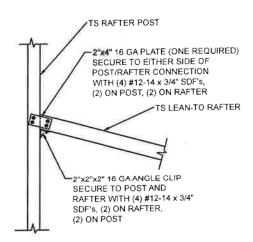


GABLE RAIL TO RAFTER POST CONNECTION DETAIL - BOW FRAME

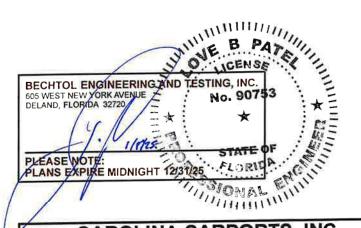
11B



RAFTER/POST DETAIL



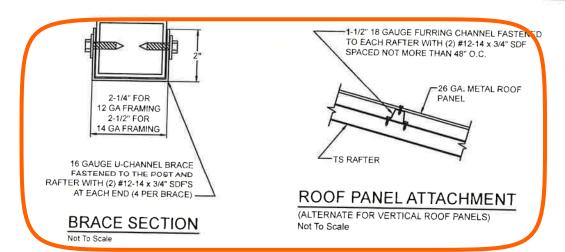
POST / LEAN-TO RAFTER CONN. DETAIL

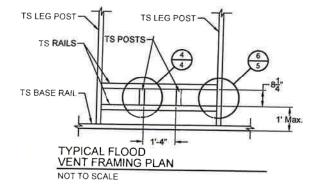


CAROLINA CARPORTS, INC. GENERIC PLANS FOR USE IN THE STATE OF FLORIDA UP TO 30' WIDE AND RISK CATEGORY I ONLY

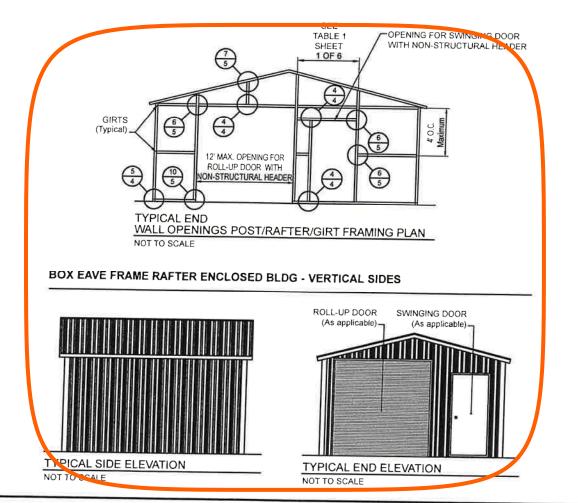
BECHTOL ENGINEERING	G DRAW
AND TESTING, Inc.	CHEC
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEE Certificate of Authorization No. 00006492	APPR

		1/2/2023			
G	DRAWN: CS	SCALE: NTS			
ROS	CHECKED: CS/ID	PROJ NO: G25001			
	APPROVED TB / LP	SHEET 5 OF 6			

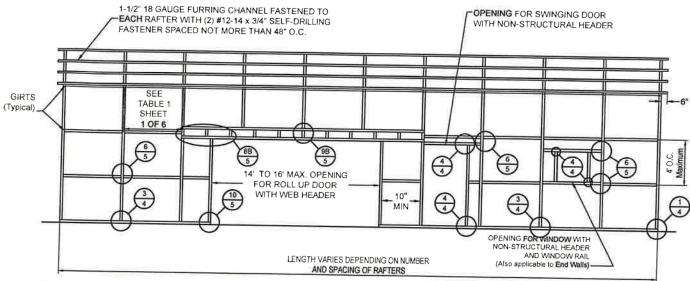




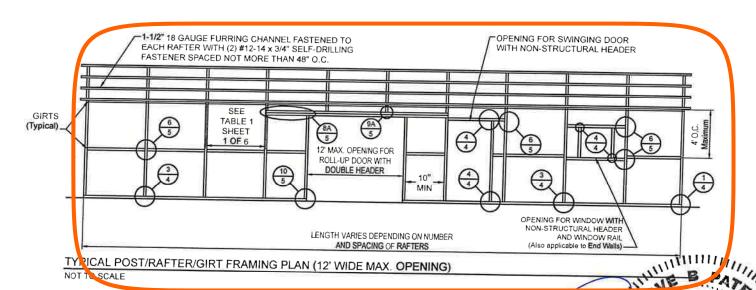
SEE GENERAL NOTE No. 14, SHEET 1 OF 6.



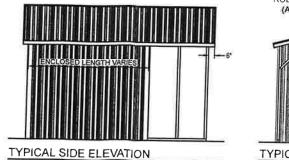
VERTICAL SIDE OPTION



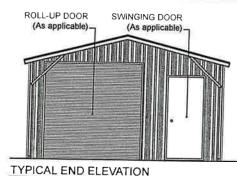
TYPICAL POST/RAFTER/GIRT FRAMING PLAN (14' TO 16' WIDE MAX. OPENING)



BOX EAVE FRAME RAFTER PARTIALLY OPEN / ENCLOSED BLDG - VERTICAL SIDES

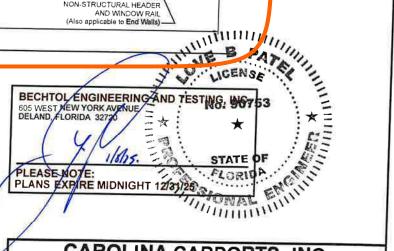


NOT TO SCALE



TYPICAL END ELEVATION

NOT TO SCALE



CAROLINA CARPORTS, INC. GENERIC PLANS FOR USE IN THE STATE OF FLORIDA UP TO 30' WIDE AND RISK CATEGORY I ONLY

1	HEW	
BECHTOL ENGINEERING	DRAW	
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS	CHEC	
Certificate of Authorization his 000004002		

1/2/2025 NTS CS/ID G25001 TB/LP SHEET 6 OF 6