

FBC APPROVED PRODUCTS LIST

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	EXPIRATION DATE	MAXIMUM ALLOWABLE WIND SPEED		
					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 AG Panel	FL6702.3-R6 12/15/20	03/14/27	N/A	164	143
STRUCTURAL COMPONENTS	FLOOD VENT	CRAWL SPACE DOOR SYSTEMS, INC. 1646 Flood Vent	FL39622.1-R1 02/28/21	09/30/22	N/A	N/A	N/A
EXTERIOR DOORS	SWINGING	ELUXIR DOOR AND METAL COMPANY Series 402-14	FL17960.3-R2 02/28/21	08/26/25	N/A	139	139
EXTERIOR DOORS	SWINGING	ELUXIR DOOR AND METAL COMPANY Series 407	FL17966.5-R2 02/28/21	08/19/25	N/A	174	155
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES, INC. Model 205 (17' Max. Width)	FL4668.1-R6 02/09/21	12/31/23	N/A	180	174
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door (17' Max. Width)	FL16606.1-R6 12/16/20	04/05/27	N/A	179	154
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door (17' Max. Width)	FL16606.2-R5 12/16/20	04/05/27	N/A	180	160
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door (16' Max. Width)	FL16606.3-R5 12/16/20	04/05/27	N/A	155	133
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door (16' Max. Width)	FL16606.4-R5 12/16/20	04/05/27	N/A	180	172
WINDOWS	SINGLE HUNG	PG INDUSTRIES Model SH760	FL238.4-R28 11/11/20	10/17/23	N/A	180	178

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. HENDERS AND WINDOW RAILS MAY BE BASED OR LOWERED AS NECESSARY TO ACCOMMODATE SUBSTITUTED PRODUCT.
** MAXIMUM ROOF BRACING 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 SETBACKS, FINISH FLOOR ELEVATION AND SLOPE, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
- THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITIES/STORAGE BUILDINGS (RISK CATEGORY B) 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. RECHOT 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 90 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 .34" 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-WY. 4XWY. 4 WELDED WIRE FABRIC COMPLYING WITH ASTM A186, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1118.
- 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 WELT ANCHOR-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 SOIL SHALL BE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R316.1 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 2000 PSF IS ASSUMED.
- 14 GA FRAMING: 2-1/2" x 2-1/2" TUBE STEEL (T5) WITH 2-1/4" x 2-1/4" TS NIPPLES.
- 12 GA FRAMING: 2-1/2" x 2-1/2" 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 905 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 joist framing, or 18 gauge flat channel roof panels.
2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7" to 27" (1:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

GROUND ANCHOR SCHEDULE

BUILDING WIDTH (feet)	110	120	130	140	150	160	170	180
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								

DETAILS TC AND TD SHOWN ON SHEET 4 OF 6

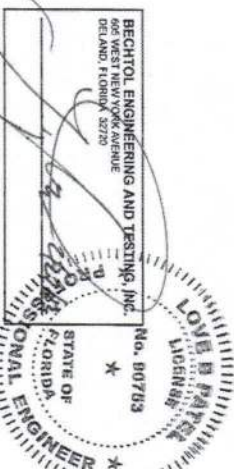
METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

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.
805 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
Certificate of Authorization No. 00005492

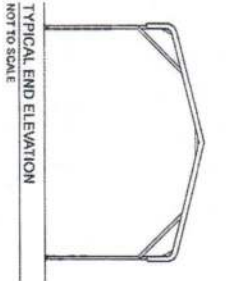
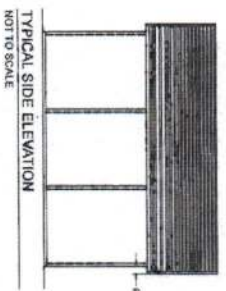
THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1609 OF THE FLORIDA BUILDING CODE, SEVENTH EDITION (2020).



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

DATE	22/10/2023
BY	MOB
CHECKED	78/12/23
DATE	18/11/23
BY	MTS
CHECKED	02/01/24
DATE	02/01/24
SHEET	1 OF 6

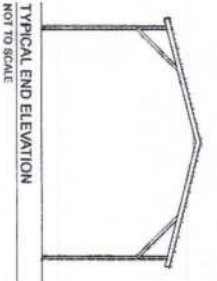
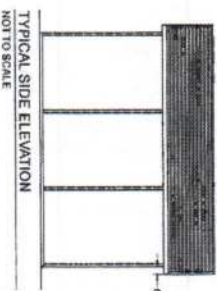
BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE

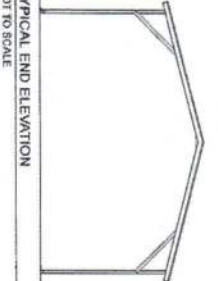
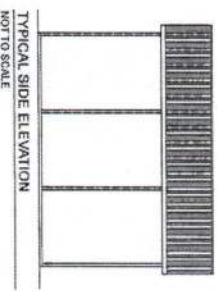
BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

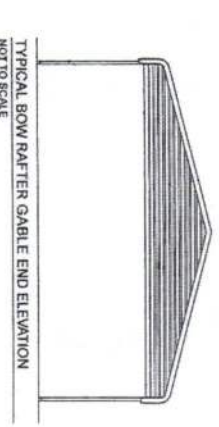
TYPICAL END ELEVATION
NOT TO SCALE

BOX EAVE FRAME RAFTER OPEN CARPORT - VERTICAL ROOF

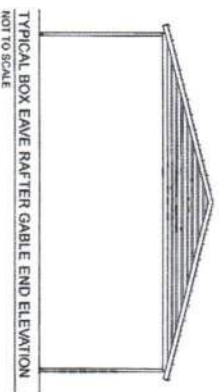


TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE

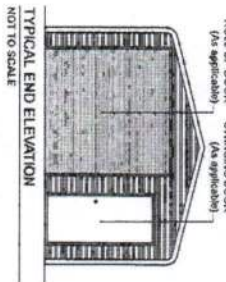
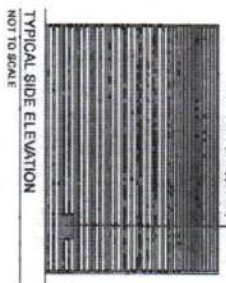


TYPICAL BOW RAFTER GABLE END ELEVATION
NOT TO SCALE



TYPICAL BOX EAVE RAFTER GABLE END ELEVATION
NOT TO SCALE

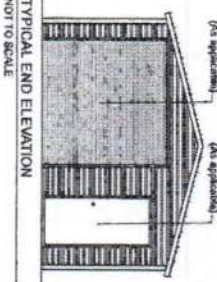
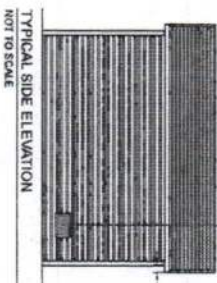
BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE

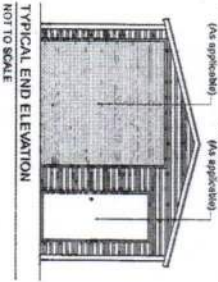
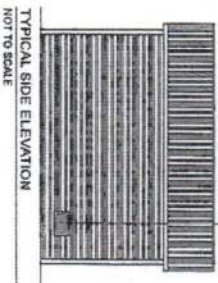
BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

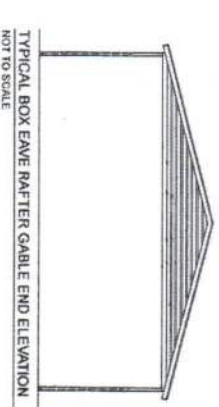
TYPICAL END ELEVATION
NOT TO SCALE

BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL ROOF



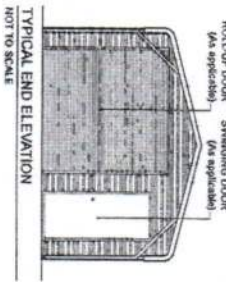
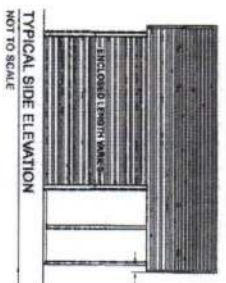
TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE



TYPICAL BOX EAVE RAFTER GABLE END ELEVATION
NOT TO SCALE

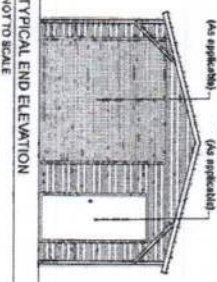
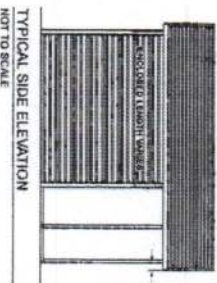
BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE

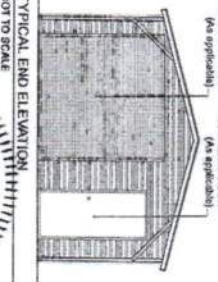
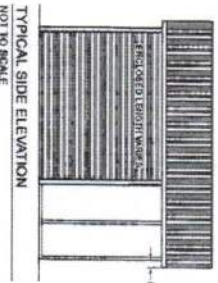
BOX EAVE FRAME RAFTER UTILITY BLDG - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE

BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL ROOF



TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE

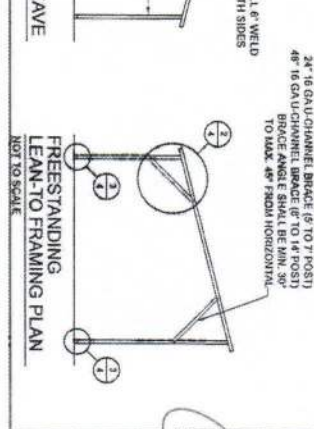
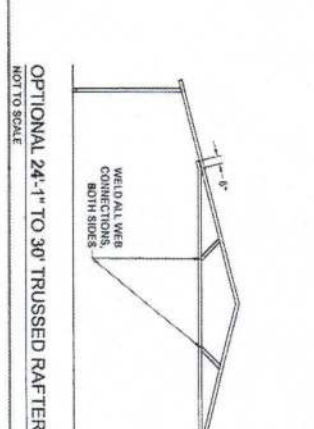
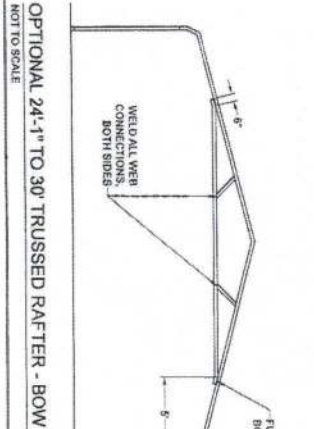
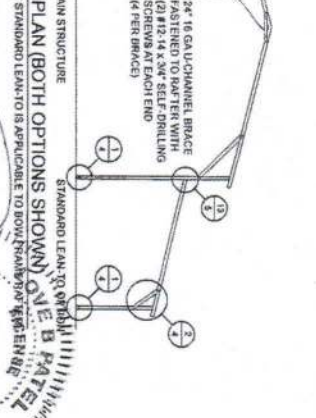
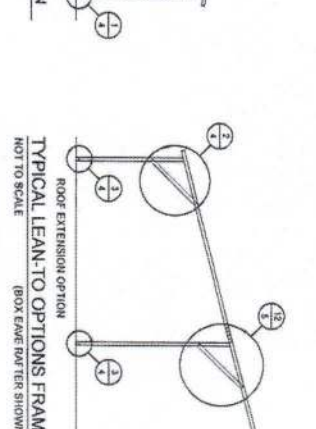
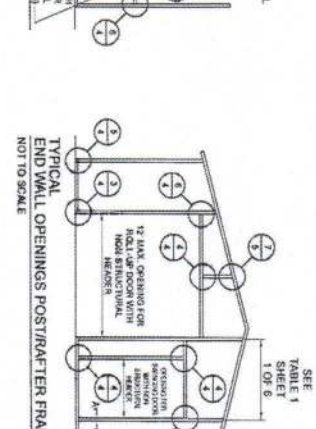
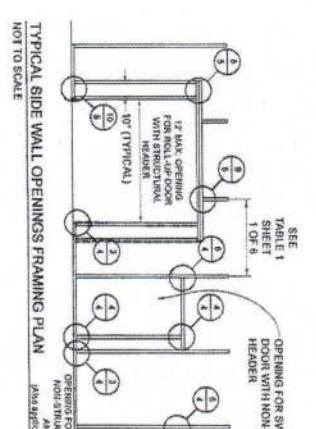
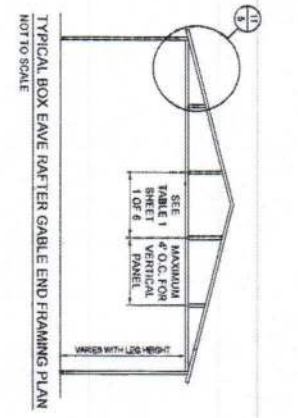
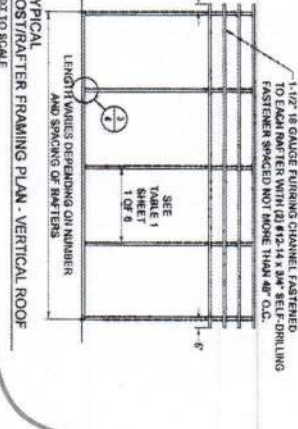
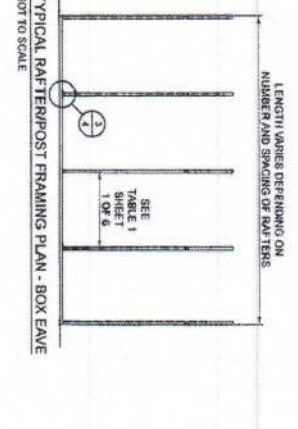
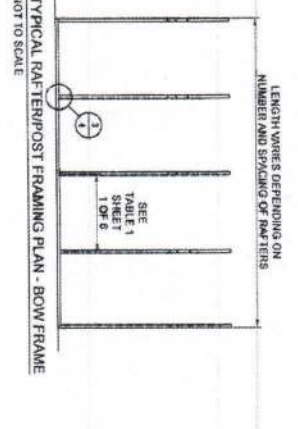
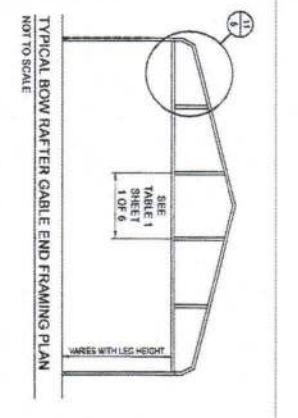
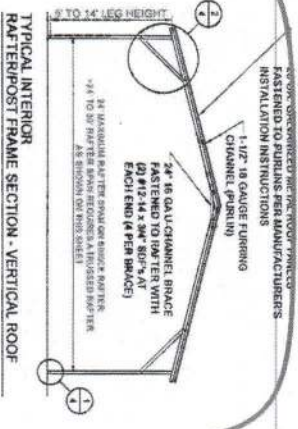
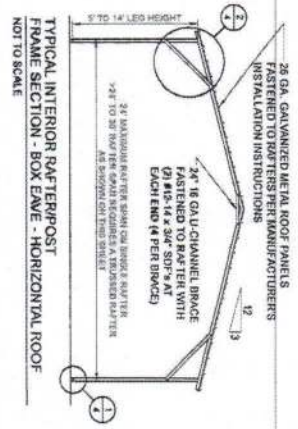
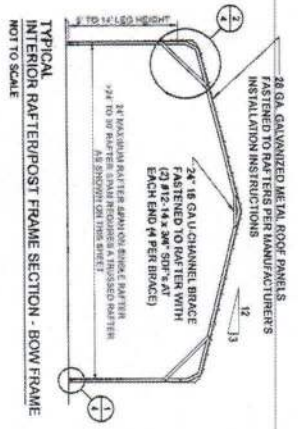
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEWYORK AVENUE
DELMAR, FLORIDA 39720

BECHTOL ENGINEERING AND TESTING, INC.
181/1P

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 00783
LOUIS B. PATER
CIVIL ENGINEER

DATE	DESCRIPTION	BY	CHKD
18/1/1P	18/1/1P	18/1/1P	18/1/1P



CAROLINA CARPORTS, INC.

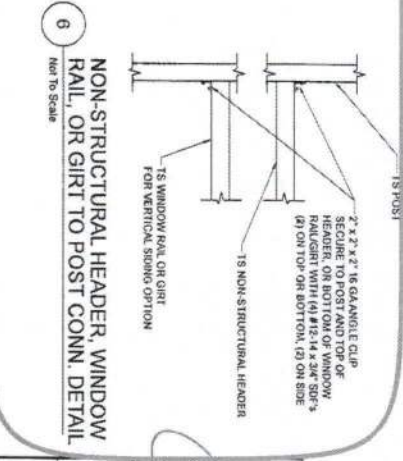
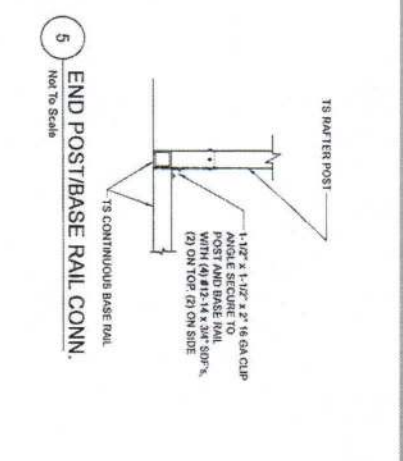
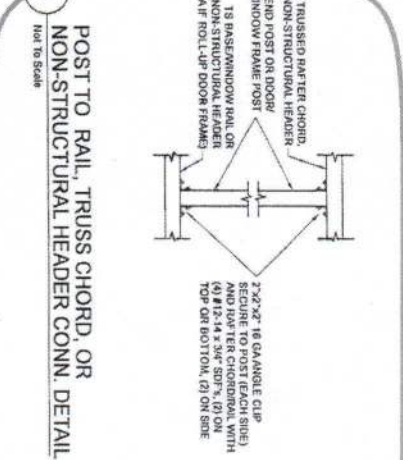
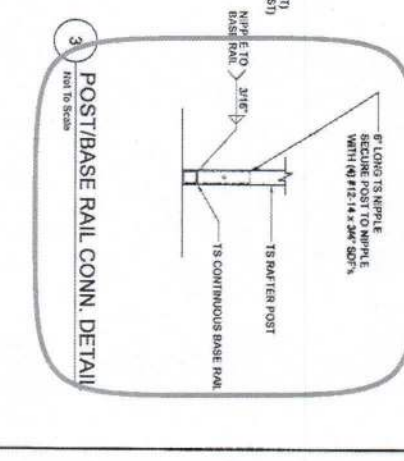
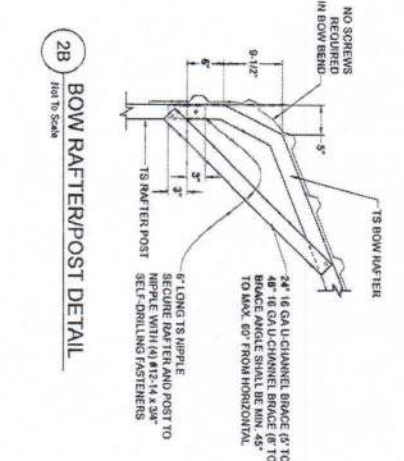
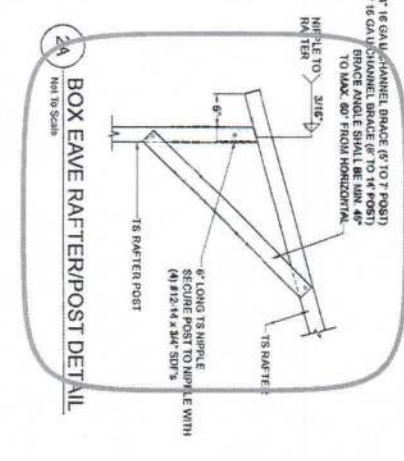
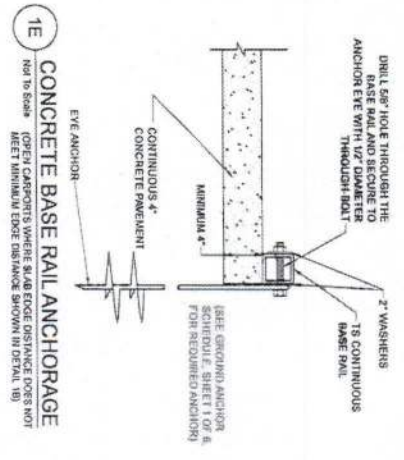
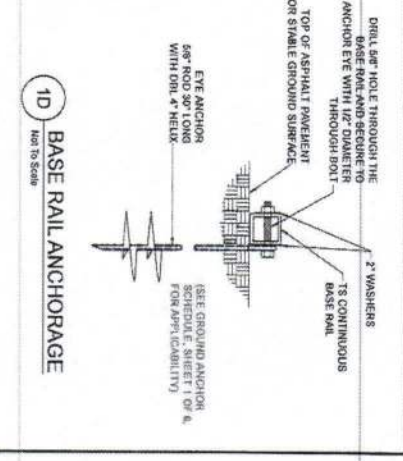
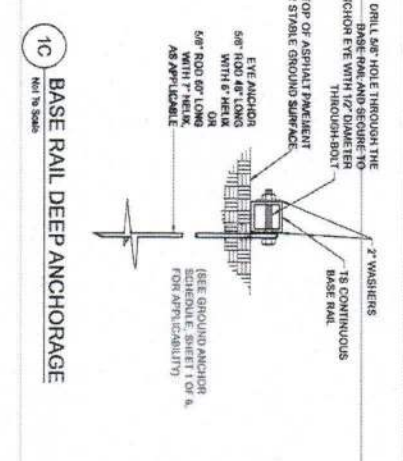
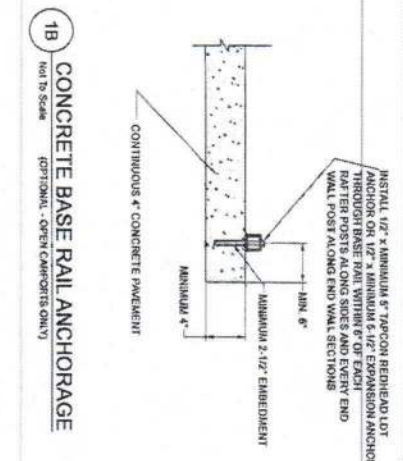
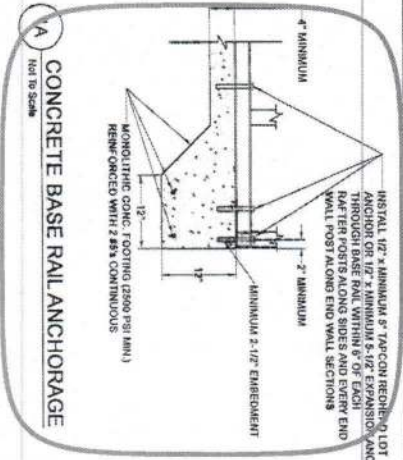
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32526

No. 90783

STATE OF FLORIDA
Professional Engineer

DATE: 10/1/03
BY: MJS
CHECKED: NTS
DESIGNED: GZ0001
PRINTED: 10/1/03
SHEET 3 OF 6

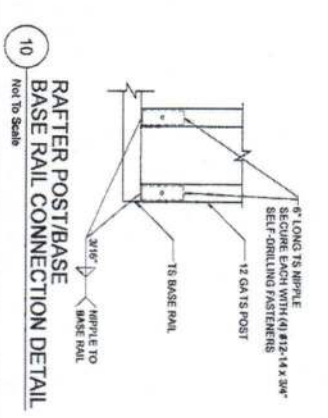


CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

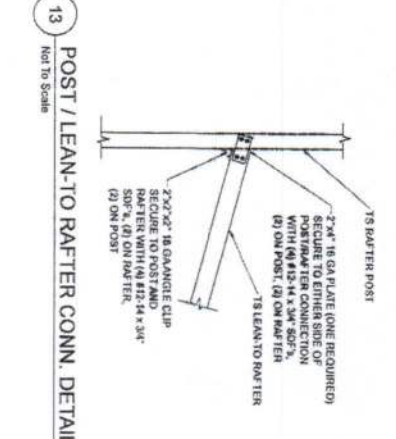
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELMAR, FLORIDA 33720

Professional Engineer
No. 00763
STATE OF FLORIDA

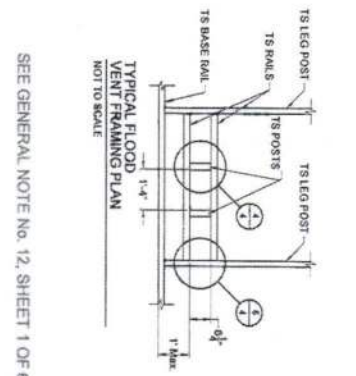
BECHTOL ENGINEERING AND TESTING, INC.
2271/2023
18/CS
SHEET 4 OF 6



BASE RAIL CONNECTION DETAIL

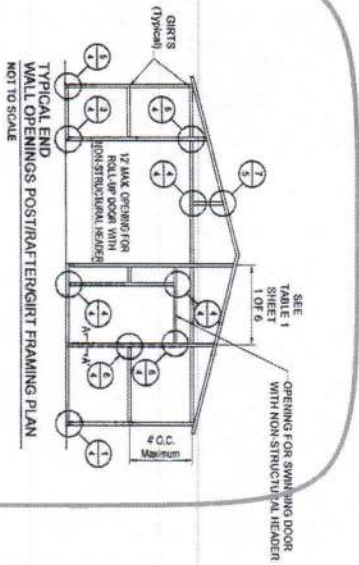


13 POST / LEAN-TO RAFTER CONN. DETAIL
Not To Scale

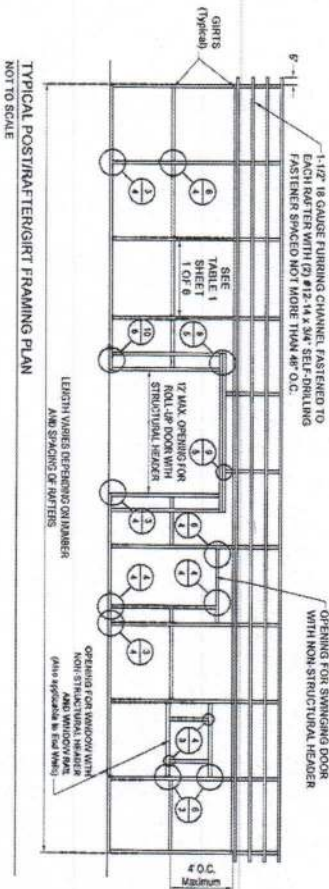
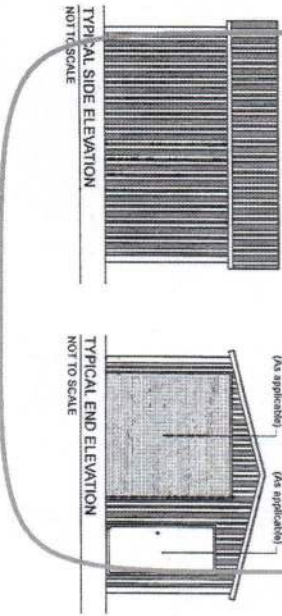


SEE GENERAL NOTE NO. 12, SHEET 1 OF 6.

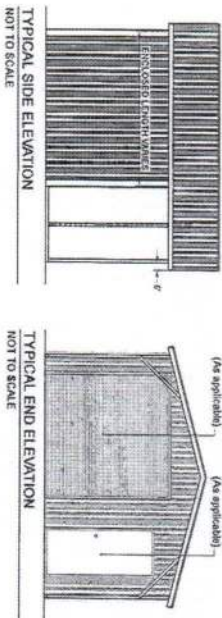
VERTICAL SIDE OPTION



BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES



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

	BECHTOL ENGINEERING		DATE	2/21/2003
	AND TESTING, INC.		DESIGN	MM
	GENERAL ENGINEERING, ARCHITECTURAL DESIGN		REVISION	18/CS
	18/UP		SHEET NO	6 OF 6

