



CAROLINA CARPORTS INC.
 P.O. BOX 1263
 DOBSON, NC 27017
 TOLL FREE 1-800-670-4262
 LOCAL 336-367-6400
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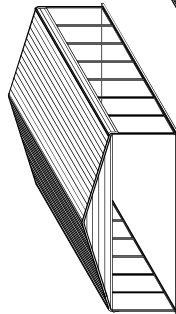
STANDARD CARPORT DETAILS

26 ft to 30 ft SPAN

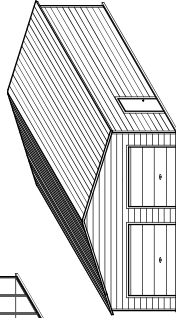
LIGHT FRAME CONSTRUCTION

NOTE: USE \odot 2 1/2" x 2 1/2" 14 Ga.
 \odot 2 1/2" x 2 1/2" 12 Ga.
 STEEL TUBE FOR ALL FRAME AND BASE RAIL MEMBERS UNLESS OTHERWISE SHOWN.

NOTE: THESE PLANS INCLUDE STANDARD DETAILS THAT CAN BE USED FOR A WIDE RANGE OF APPLICATIONS. IF SITE SPECIFIC PLANS ARE REQUIRED, A SEPARATE SET OF PLANS WILL NEED TO BE PREPARED.



ISOMETRIC



ISOMETRIC

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

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B or C	105 TO 140	82 TO 108	25	5.0	29 Gauge	
				4.0	8	
				50 (Truss)	4.0 (12 Ga.)	

NOTES: 1. Specifications applicable to 26 or 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube frames.
 2. Fasteners consist of #12 x 3/8" self-drilling screws without control seal washers.
 3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

TABLE 1 (HIGH WIND REGION)
 BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B or C	141 TO 150	109 TO 116	25	5.0	29 Gauge	8
	151 TO 170	117 TO 132	20	4.0	26 Gauge	6

NOTES: 1. Specifications applicable to 29 gauge and 26 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
 2. Fasteners consist of #12 x 3/8" self-drilling screws without control seal washer.
 3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

GENERAL NOTES:

- THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (AWFRS), COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SET-BACKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
- THESE STRUCTURES ARE DESIGNED AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.
- THE SPACING INDICATED IN THE ABOVE TABLE IS THE MAXIMUM SPACING FOR THE MAIN WIND FORCE RESISTING SYSTEM. A CLOSER SPACING MAY BE NEEDED TO MEET LOCAL BUILDING CODE AND/OR SITE SPECIFIC REQUIREMENTS.
- ALL STEEL TUBING SHALL BE 65 KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.
- FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH #12" x 3/8" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHERS AT AN AVERAGE SPACING OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.
- ALL FIELD CONNECTIONS SHALL BE #12 x 3/8" SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.
- ALL WELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.
- GROUND ANCHOR REQUIREMENTS: INSTALL HELICAL ANCHORS WITHIN 6" OF EACH CORNER POST AND AT A MAXIMUM SPACING OF 25' ALONG THE BASE RAIL. INSTALL GROUND RODS (#4 THREADED REBAR) BETWEEN THE HELICAL ANCHORS AT A MAXIMUM SPACING OF 5' AND A MINIMUM SPACING OF 4' ALONG THE BASE RAIL. HELICAL ANCHORS AND GROUND RODS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.
- CONCRETE ANCHORS SHALL BE ITW RAMSET/REDHEAD TRUBOLT WEDGE ANCHOR, ITW REDHEAD TAPCON+SIMPFON STRONG-TIE STRONG BOLT-2 WEDGE ANCHOR OR TITEN HD SCREW ANCHOR OR AN APPROVED EQUAL.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.
- GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

CAROLINA CARPORTS, INC.
 187 Cardinal Ridge Trail
 DOBSON, NORTH CAROLINA 27017

THE OWNER IS RESPONSIBLE FOR OBTAINING A BUILDING PERMIT, IF NEEDED, AND FOR COMPLYING WITH ALL LOCAL BUILDING CODE REQUIREMENTS.

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 THE 2015 INTERNATIONAL BUILDING CODES AND THE 2018 NORTH CAROLINA BUILDING CODE.

BUILDING CODE INFORMATION	
OCCUPANCY CATEGORY	I II
USE GROUP	U or S
CONSTRUCTION TYPE	2B
IMPORTANCE FACTORS	
WIND Iw	1.0
SNOW Is	0.8
EARTHQUAKE Ie	1.0

DESIGN LOADS	
MIN. DEAD LOAD	5 PSF
MIN. FLOOR LIVE LOAD	125 PSF
MIN. ROOF LIVE LOAD	20 PSF
MIN. GROUND SNOW LOAD	
MAX. GROUND SNOW LOAD	
MIN. ULTIMATE WIND SPEED	SEE TABLE 1
MAX. ULTIMATE WIND SPEED	
EXPOSURE CATEGORY	
SEISMIC RESPONSE COEFFICIENT	0.500

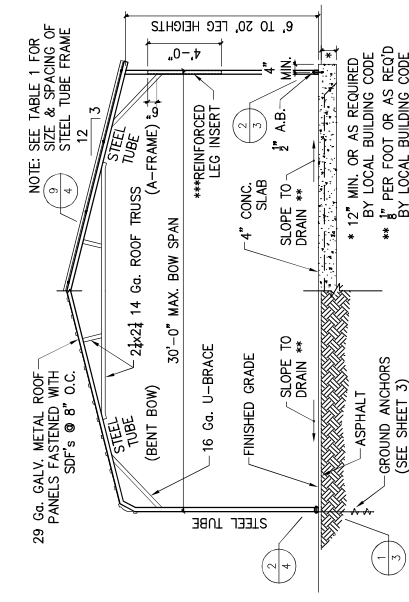
These plans have been provided for the purpose of obtaining a building permit for the construction of the building for:

Name: Susan Santos
 Address: 5908 River Rd
 City: Fuquay Varina State: NC
 Zip: 27526

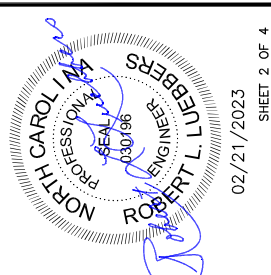
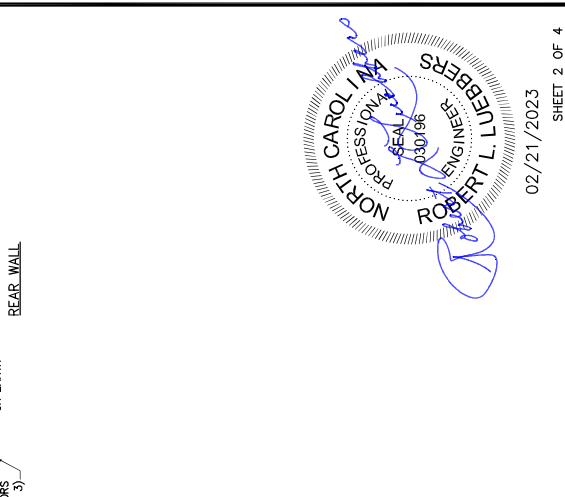
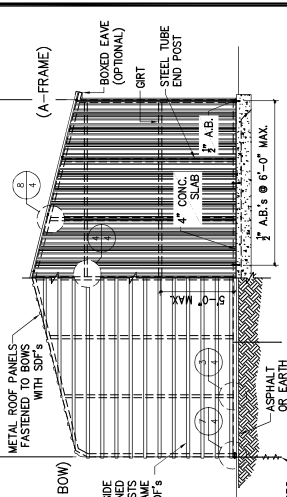
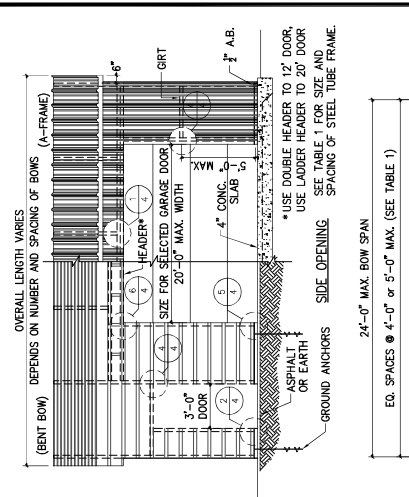
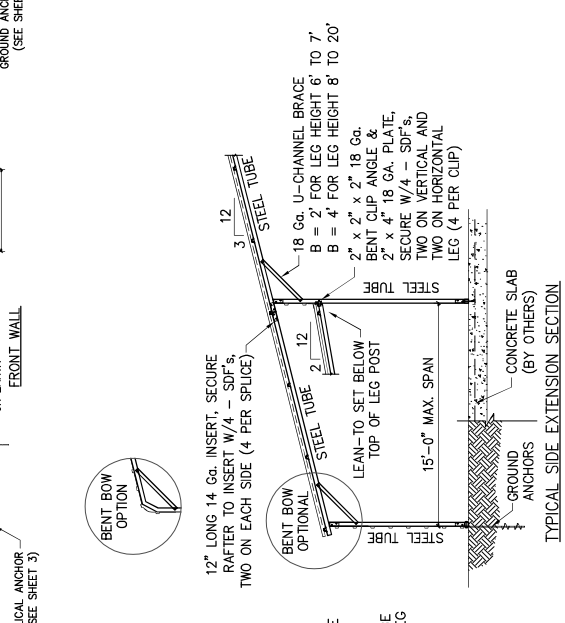
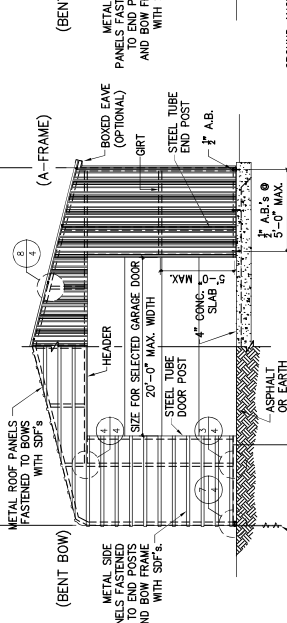
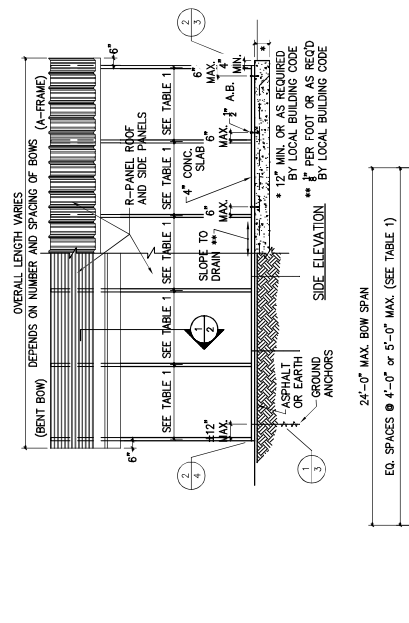
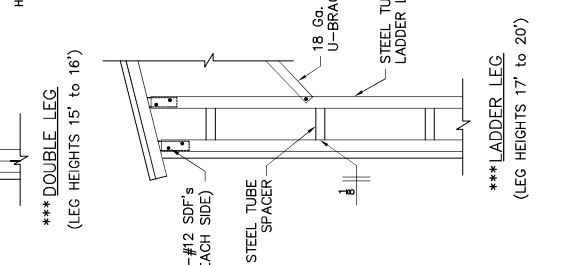
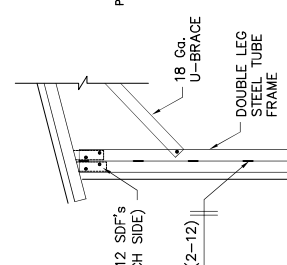
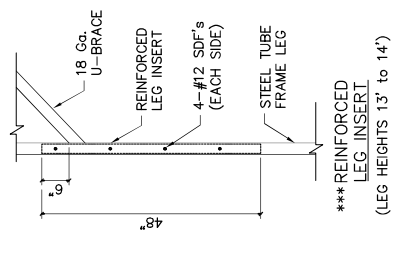
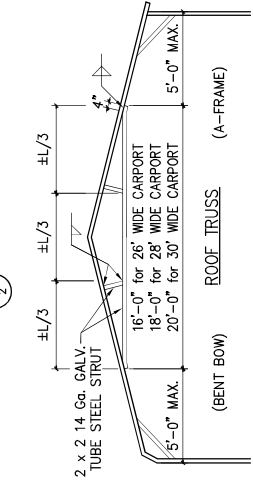
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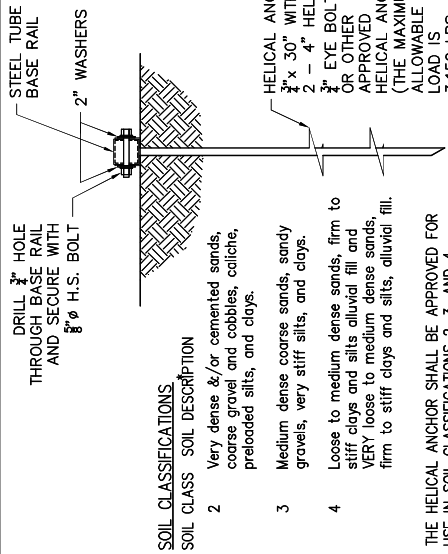
CONCRETE FOUNDATION DESIGN RECOMMENDATIONS:
 CONCRETE INFORMATION AND DETAILS SHOWN IN THESE PLANS ARE FOR INFORMATION ONLY. THE CONCRETE SLAB AND FOUNDATION ARE BY OTHERS. THE OWNER IS RESPONSIBLE FOR PROVIDING A SUITABLE FOUNDATION FOR THE PROPOSED STRUCTURE AND COORDINATING CONCRETE STRENGTH AND FOUNDATION DEPTH REQUIREMENTS WITH THE LOCAL BUILDING CODE OFFICIALS.
 CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS OR AS REQUIRED BY LOCAL BUILDING CODE. THE USE OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.
 COVER OVER REINFORCING STEEL:
 MINIMUM CONCRETE OVER REINFORCING BARS SHALL BE 3 INCHES WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2" ELSEWHERE.
 REINFORCING STEEL:
 THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. THE USE OF FIBER REINFORCED CONCRETE (FRC) OR WELDED WIRE FABRIC (WFF) IS ACCEPTABLE.





1 TYPICAL BOW SECTION





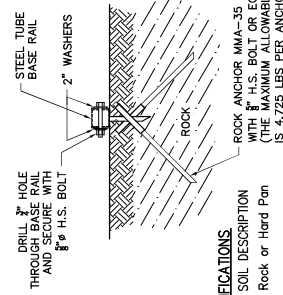
SOIL CLASSIFICATIONS

- | SOIL CLASS | SOIL DESCRIPTION |
|------------|--|
| 2 | Very dense &/or cemented sands, coarse gravel and cobbles, caliche, preloaded silts, and clays. |
| 3 | Medium dense coarse sands, sandy gravels, very stiff silts, and clays. |
| 4 | Loose to medium dense sands, firm to stiff clays and silts alluvial fill and VERY loose to medium dense sands, firm to stiff clays and silts, alluvial fill. |

THE HELICAL ANCHOR SHALL BE APPROVED FOR USE IN SOIL CLASSIFICATIONS 2, 3, AND 4.

* Taken from HUD "Standard for Installation of Mobile Homes"

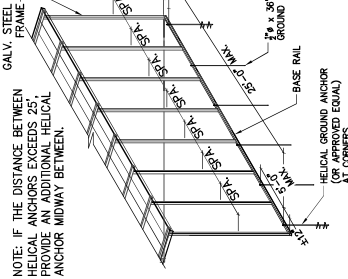
1 SOIL BASE RAIL ANCHOR DETAIL



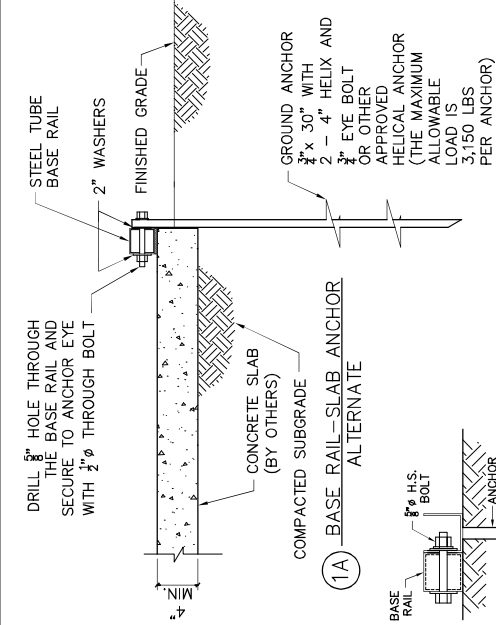
SOIL CLASSIFICATIONS

- | | |
|---|------------------|
| 1 | Rock or Hard Pan |
|---|------------------|

1(C) ROCK BASE RAIL ANCHOR DETAIL

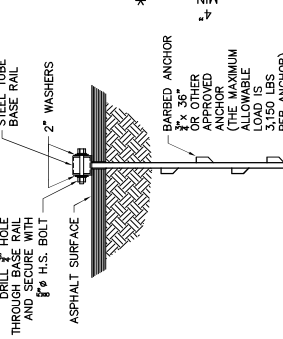


NOTE: IF THE DISTANCE BETWEEN HELICAL ANCHORS EXCEEDS 25', PROVIDE AN ADDITIONAL HELICAL ANCHOR MIDWAY BETWEEN.

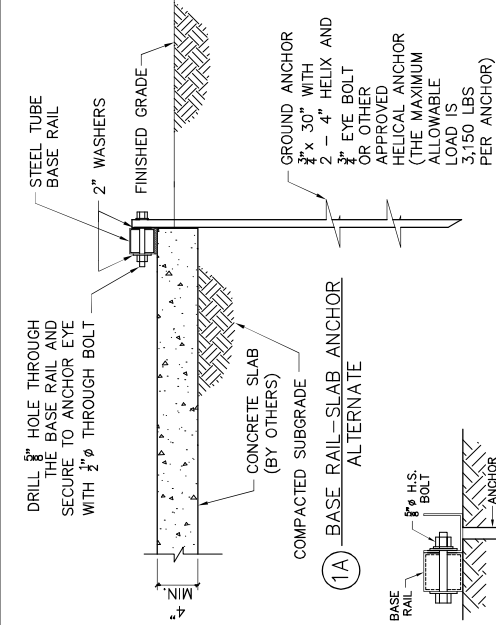


1(A) ALTERNATE BASE RAIL-SLAB ANCHOR

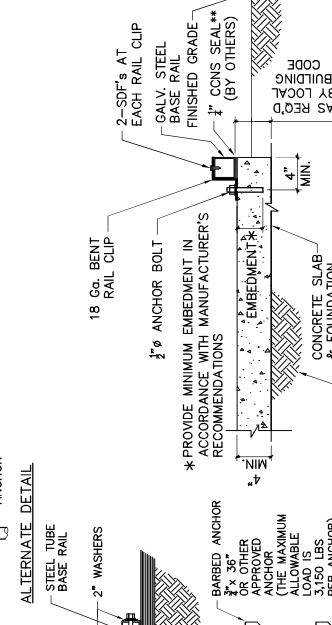
ALTERNATE DETAIL



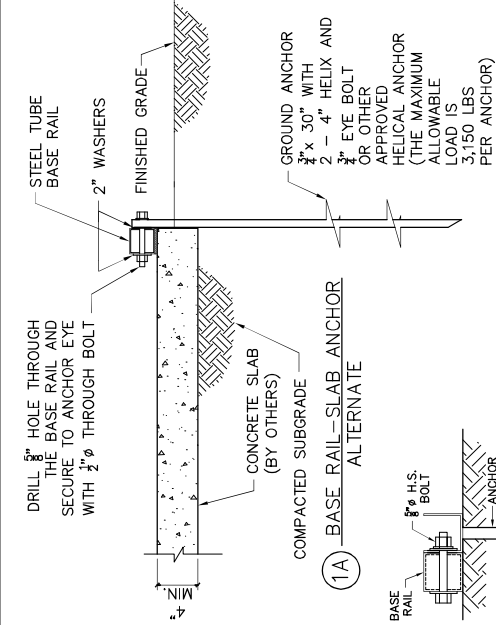
1(B) ASPHALT ANCHOR DETAIL



2 CONCRETE BASE RAIL ANCHOR (SINGLE LEG)



2(B) CONCRETE BASE RAIL ANCHOR (DOUBLE LEG)



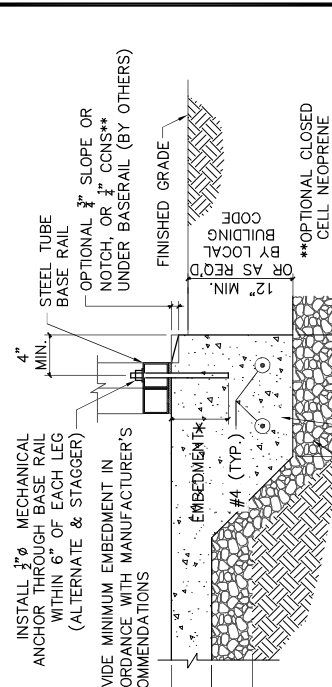
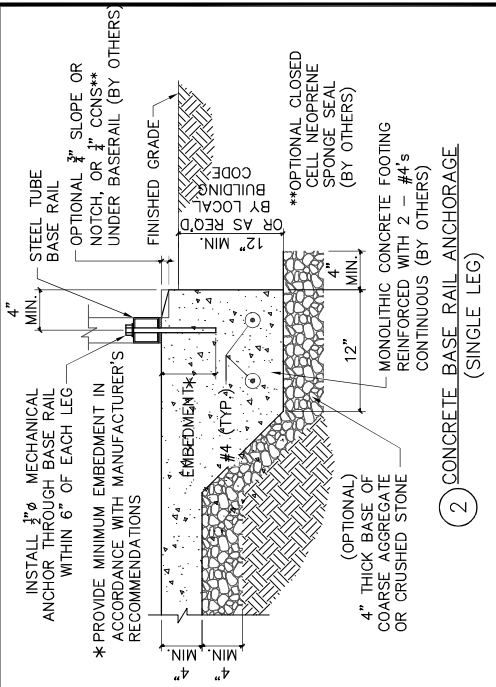
2(C) ALTERNATE BASE RAIL ANCHOR

BREAKAWAY

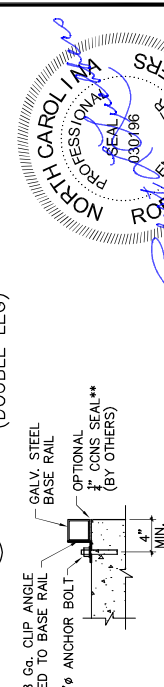


CRAWL SPACE DOOR SYSTEMS, INC.
5741 Bayside Road, #105
Virginia Beach, VA 23455
Engineered Flood Vent
Model CSBA816

OR Approved Equal
FLOOD VENTS



2(B) CONCRETE BASE RAIL ANCHOR (DOUBLE LEG)



2(D) ALTERNATE BASE RAIL CLIP



02/21/2023

SHEET 3 OF 4



Susan Santos <susansantos441@gmail.com>

Carolina Carports - Susan Santos

Alexis Valentine <alexis.v@ccihq.biz>
To: susansantos441@gmail.com

Wed, May 3, 2023 at 4:00 PM

Attached are the **generic plans** for your reference.

If your building is going to be installed on concrete, please be aware, these plans show a minimum of 4" anchor edge distance as well as 12" footer around the perimeter of the building (sheet 3 of 4).

The extra cement can be sloped or stepped down to prevent water from going towards the building. The alternate base rail anchorage options are only to be used when you have an existing pad or the pad has been poured incorrectly. Additional charges do apply. These will need to be printed in color on 11x17" paper and you will need 2 copies if you intend on using them for permitting.

Once the site is ready for installation, please call 1-800-670-4262 and ask for the scheduling dept for your state.

Thank you for choosing Carolina Carports!

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Alexis Valentine
Permitting & Engineering Dept
888-981-3273
Direct: 336-223-7691
Carolina Carports, Inc.
N.C. Corporate Headquarters
www.carolinacarportsinc.com

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