

NOTE: THIS STRUCTURE IS IN COMPLIANCE WITH THE 2009 & 2012 INTERNATIONAL BUILDING CODES AND INTERNATIONAL RESIDENTIAL BUILDING CODES. LOADS ARE IN ACCORDANCE WITH ASCE/SEI 7-05 and 7-10.

WIND SPEED (3 SECOND WIND GUST)	120 MPH	130 MPH
	0.77	0.77
IMPORTANCE FACTOR	0.8	0.8
	1.0	1.0
BUILDING CATEGORY	I	I
	C	C
INTERNAL PRESSURE COEFFICIENT	±0.55	
COMPONENT AND CLADDING PRESSURE	WALLS	+32.2/-40.5 PSF
	ROOF	+21.8/-65.4 PSF
STRUCTURE TYPE	ENCLOSED or OPEN	
	ENCLOSED or OPEN	
GROUND SNOW LOAD	20 PSF	
SEISMIC DESIGN CATEGORY	D2	

TABLE 1

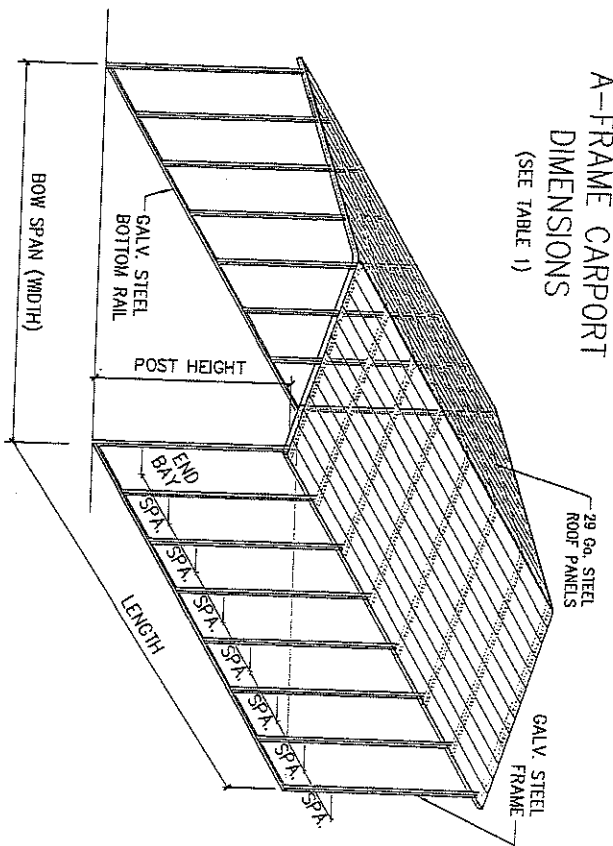
BOW SPAN	POST HEIGHT	FRAME SPACING BASED ON WIND SPEED AND SNOW LOAD			
		120 / 20	130 / 30	130 / 40	130 / 50
12'	8'-0"	14	14	14	14
	12'-0"	12	12	12	12
16'	8'-0"	14	14	14	14
	12'-0"	12	12	12	12
18'	8'-0"	14	14	14	14
	12'-0"	12	12	12	12
20'	8'-0"	14	14	14	14
	12'-0"	12	12	12	12
22'	8'-0"	14	14	14	14
	12'-0"	12	12	12	12
24'	8'-0"	14	14	14	14
	12'-0"	12	12	12	12

NOTE: CORNER BRACE REQUIRED FOR ALL 10' & 12' POSTS * OR TS 2 1/2 x 2 1/2 AND FOR ALL 20'-24' SPANS

TS 2 1/2 x 2 1/2 - 14 GAGE STEEL TUBING MAY BE SUBSTITUTED FOR TS 2 1/2 x 2 1/2 - 12 GAGE STEEL TUBING OR VICE VERSA. THE ASSOCIATED CONNECTION MATERIALS AND BRACING MUST BE ADJUSTED ACCORDINGLY TO ACCOMMODATE THE CHANGE IN SIZE.

12 GA. @ 4'-6" MAY BE USED

A-FRAME CARPORT DIMENSIONS (SEE TABLE 1)

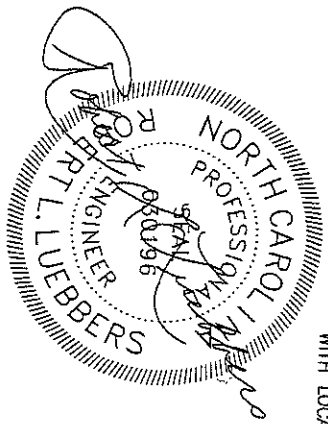


NOTES: ALL STEEL TUBING SHALL HAVE A MINIMUM YIELD STRENGTH (F_y) OF 65 KSI OR BETTER. ALL FASTENERS ARE GASE HARDENED STEEL HEX SELF-TAPPING SCREWS, 1/2"-14 FOR FRAMING, #12-14 FOR TOP AND TRIM. ROOF DECK SCREWS SHALL HAVE RUBBER WASHERS. FASTEN METAL ROOF AND SIDE PANELS WITH SELF DRILLING FASTENERS AT 8" O.C. MAX.

ALL FIELD CONNECTIONS SHALL BE 1/2"x1/2" SELF DRILLING SCREWS, UNLESS NOTED OTHERWISE.

ALL SHOP CONNECTIONS SHALL BE WELDED.

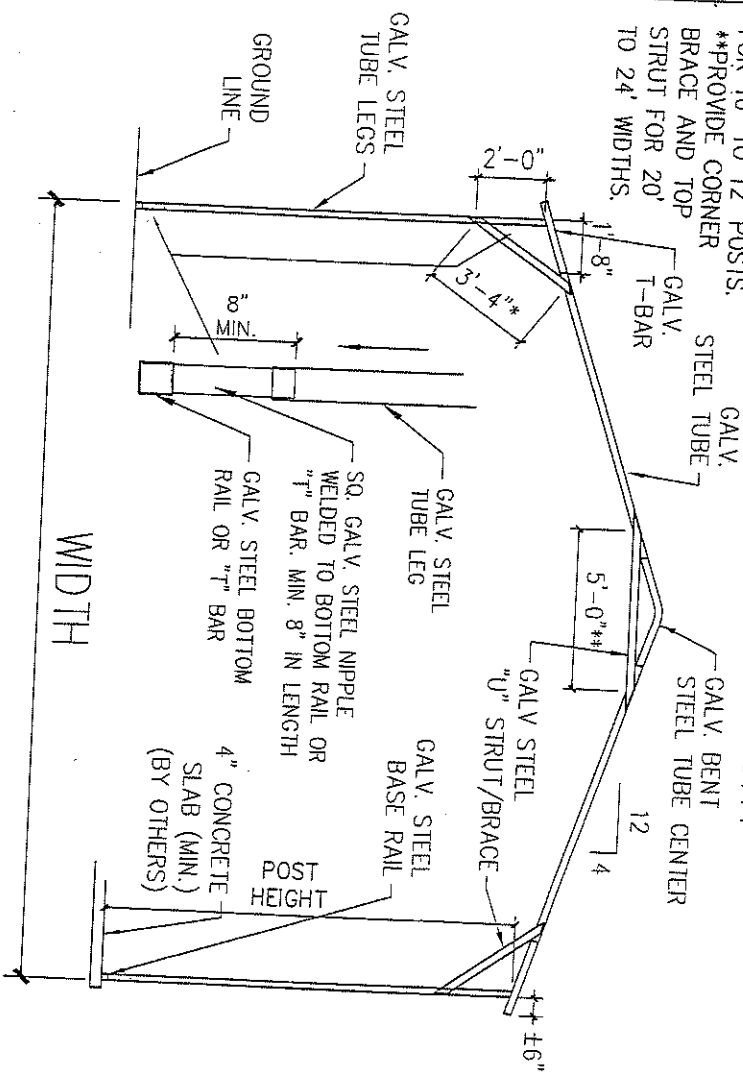
THE OWNER IS RESPONSIBLE FOR COMPLYING WITH LOCAL BUILDING CODE REQUIREMENTS.



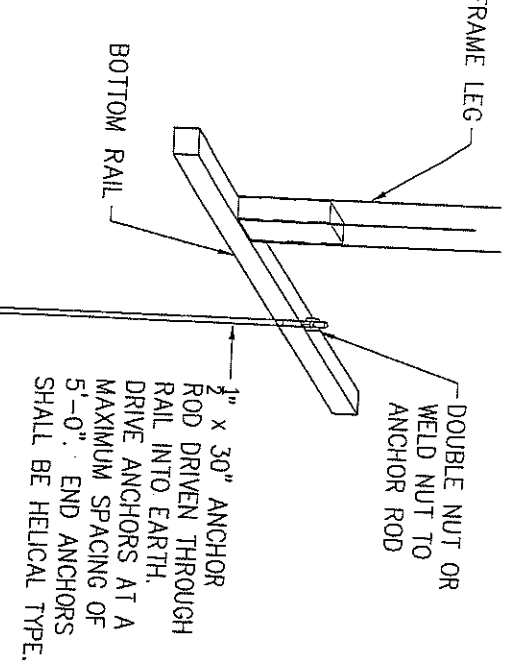
NEWMART BUILDERS
A-FRAME CARPORTS
 850 LOCUST STREET
 SOUTH HILL, VA 23970
 PHONE (434) 447-2693
 TOLL FREE 1-800-547-8480
 FAX (434) 447-2694

A-FRAME CARPORT

*PROVIDE CORNER BRACE FOR 10' TO 12' POSTS.
 **PROVIDE CORNER BRACE AND TOP STRUT FOR 20' TO 24' WIDTHS.

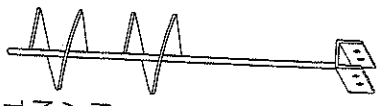


GROUND ANCHOR DETAIL



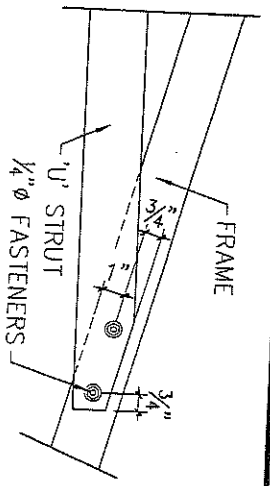
DOUBLE NUT OR WELD NUT TO ANCHOR ROD
 1/2" x 30" ANCHOR ROD DRIVEN THROUGH RAIL INTO EARTH.
 DRIVE ANCHORS AT A MAXIMUM SPACING OF 5'-0". END ANCHORS SHALL BE HELICAL TYPE.

HELICAL ANCHOR DETAIL

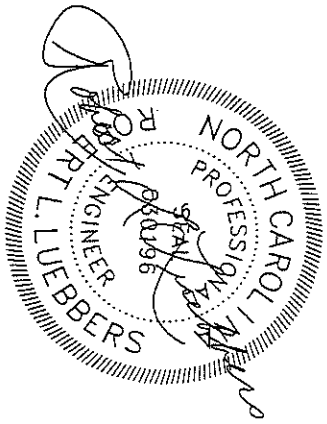
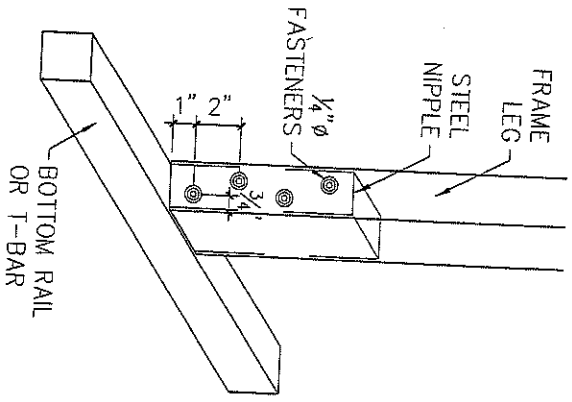


"MINUTE MAN" #650 DHS OR EQUAL, SCREW DOWN TYPE ANCHOR ATTACHED TO BOTTOM RAIL ACCORDING TO MANUFACTURERS RECOMMENDATIONS. (MAXIMUM ALLOWABLE LOAD IS 3150 LBS PER ANCHOR)
 PROVIDE MIN. 2 HELICAL ANCHORS EACH SIDE NEAR ENDS OF BOTTOM RAIL TO ACHIEVE 130 MPH WIND GUST RATING. USE GROUND ANCHORS ON EACH SIDE SPACED EVENLY BETWEEN HELICAL ANCHORS.

STRUT OR BRACE CONNECTION



FRAME CONNECTION



DRILL $\frac{3}{8}$ " HOLE THROUGH THE
BASE RAIL AND SECURE TO
ANCHOR EYE WITH $\frac{1}{2}$ " DIAMETER
THROUGH BOLT

SOIL CLASSIFICATIONS *
SOIL CLASS SOIL DESCRIPTION

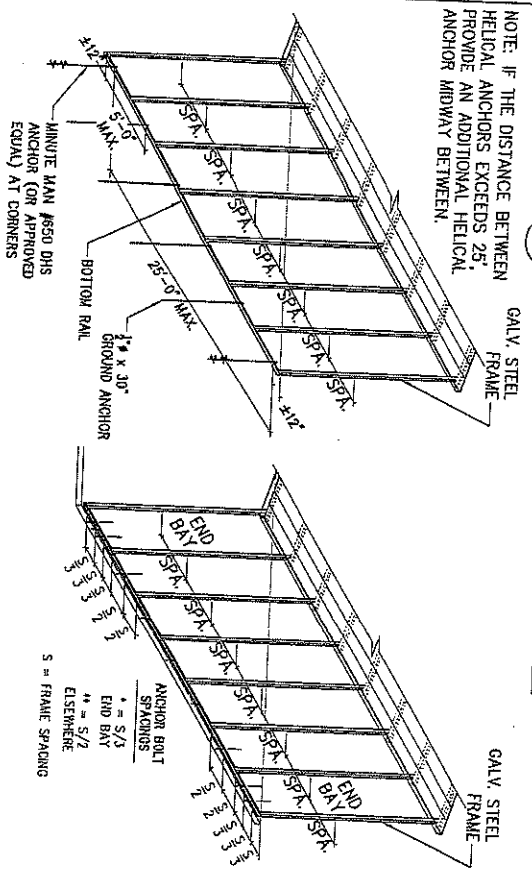
- 2 Very dense &/or cemented sands, coarse gravel and cobbles, caliche, preloaded silts, and clays.
- 3 Medium dense coarse sands, sandy gravels, very stiff silts, and clays.
- 4 Loose to medium dense sands, firm to stiff clays and silts alluvial fill and VERY loose to medium dense sands, firm to stiff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

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

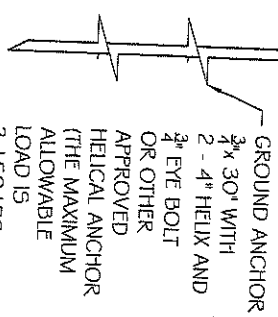
* Taken from HUD "Standard for Installation of Mobile Homes"



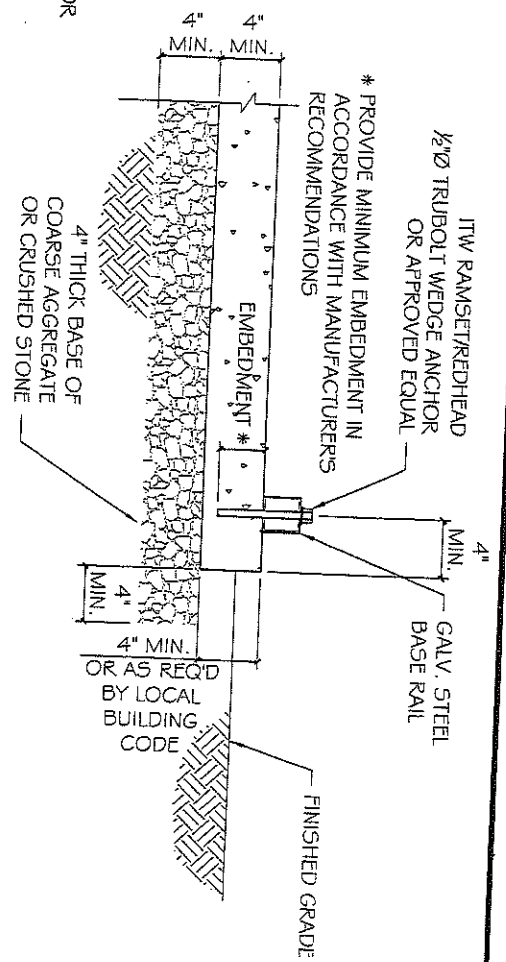
SOIL BASE RAIL ANCHOR DETAIL



HELICAL GROUND ANCHORS



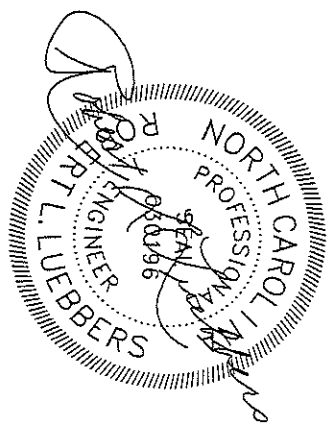
CONCRETE BASE RAIL ANCHORAGE

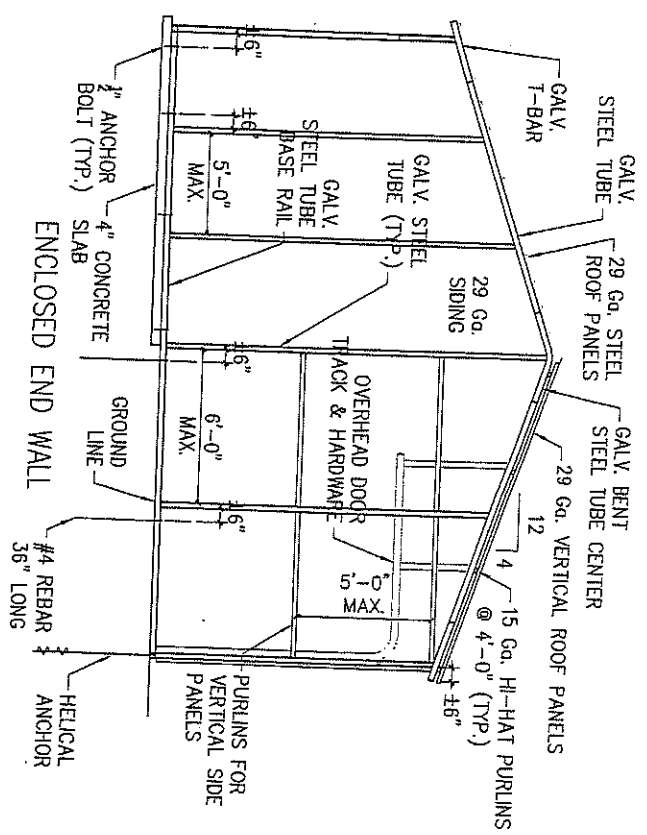
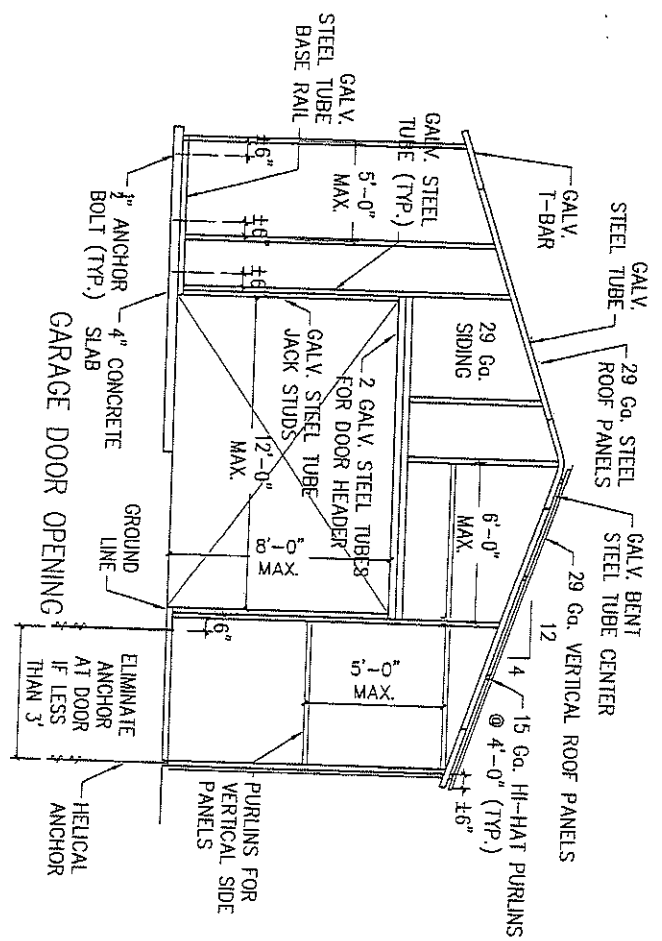


NOTES:

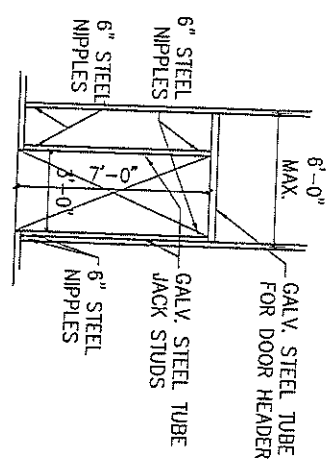
LIGHT GAGE METAL FRAME CARPORTS ARE VERY LIGHTWEIGHT AND FLEXIBLE STRUCTURES. THE BOTTOM RAIL IS USUALLY PLACED EITHER DIRECTLY ON LEVEL GROUND AND SECURED WITH GROUND ANCHORS, OR IS PLACED ON A 4" CONCRETE SLAB OVER A 4" LAYER OF STONE AND SECURED TO THE SLAB WITH $\frac{1}{2}$ " ANCHOR BOLTS. EXTENDING THE FOUNDATION TO FROST DEPTH TO PREVENT HEAVING IS GENERALLY NOT REQUIRED. HOWEVER, THE OWNER IS RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODE WHICH MAY BE MORE RESTRICTIVE.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH (F'c) OF 2500 PSI AT 28 DAYS.





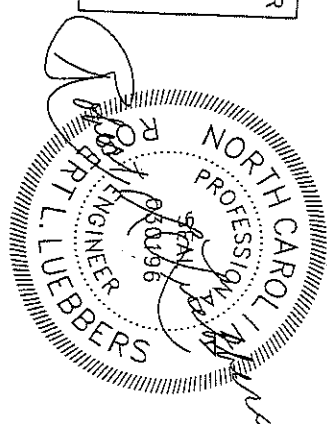
NOTE:
 EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:
 ANSI/AAMA/NWMA 101/52 2/97
 THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE FOR EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.
 NOTE:
 ALL WINDOWS AND DOORS SHALL HAVE A MINIMUM DESIGN PRESSURE RATING OF ±35 PSF.

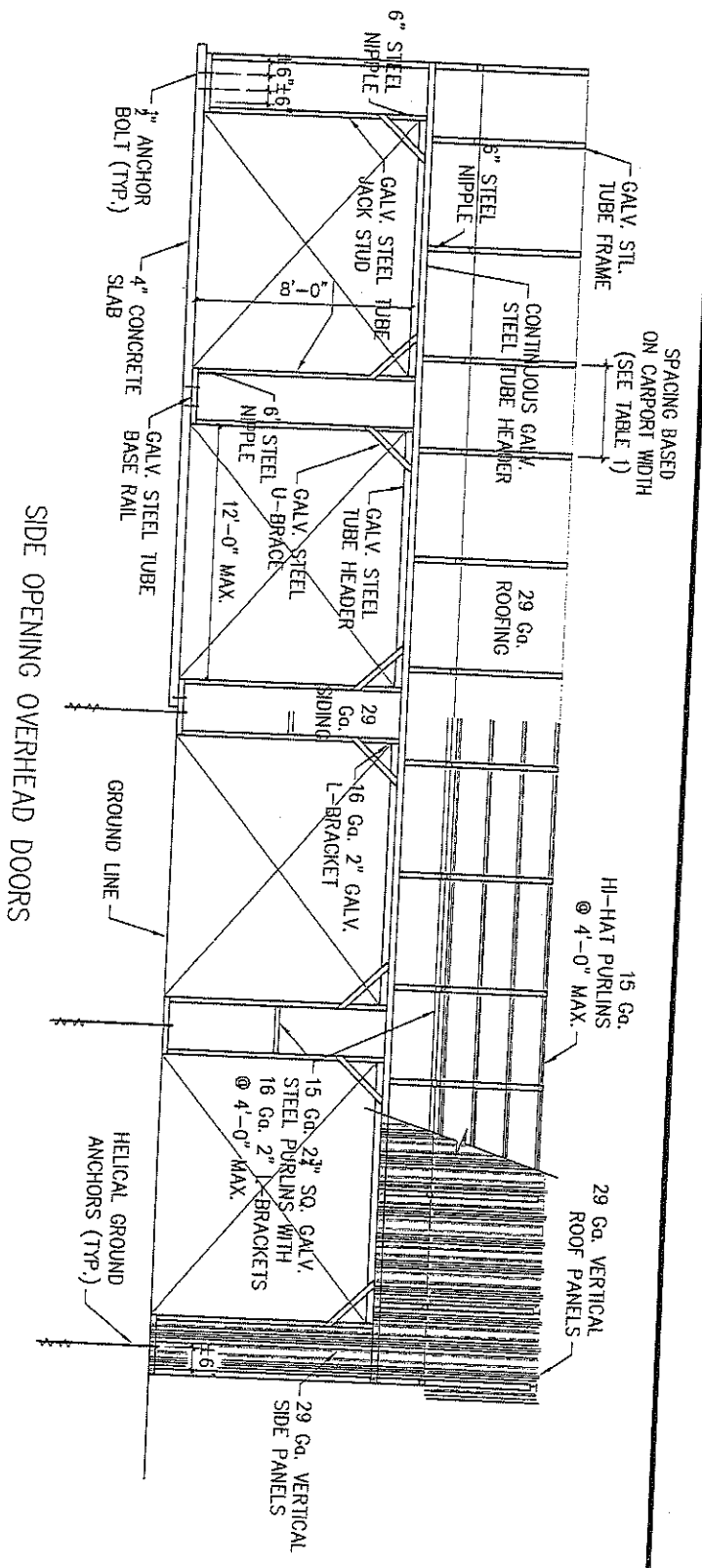


STANDARD DOOR OPENING

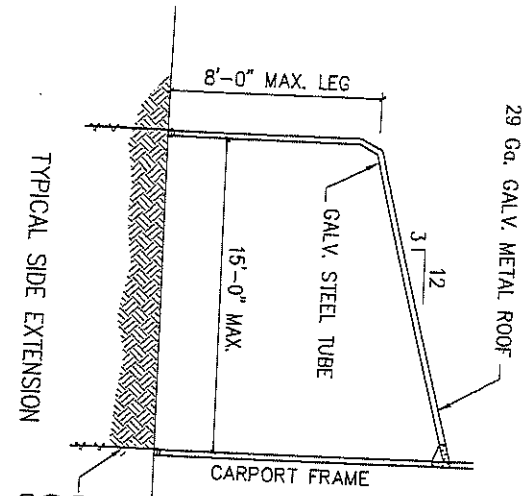
CARPORIT WIDTH	MAX. DOOR WIDTH
12'	8'
18'	10'
20'	12'
22'	12'
24'	12'

MAX. DOOR WIDTH FOR SIDE OPENING IS 12'

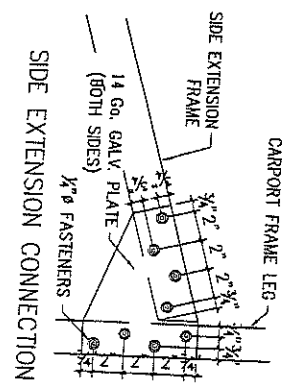




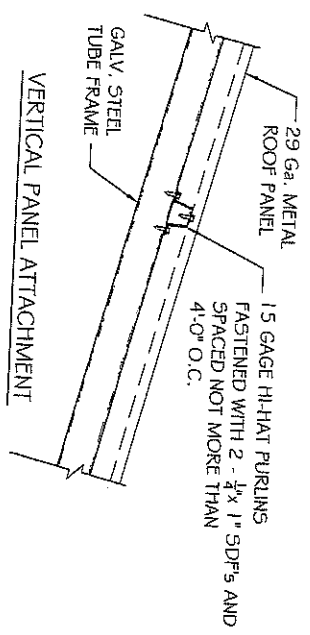
SIDE OPENING OVERHEAD DOORS



TYPICAL SIDE EXTENSION



SIDE EXTENSION CONNECTION



VERTICAL PANEL ATTACHMENT

