

APPLICABLE CODES, REGULATIONS, & STANDARDS

- THE 2023 FLORIDA BUILDING CODE
- ASCE/SEI 7-22 MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- AWS D1.1: STRUCTURAL WELDING

1. THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, ELECTRICAL, PLUMBING, INGRESS/EGRESS, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS.

2. THESE STRUCTURES ARE ENGINEERED AS (RISK CATEGORY I) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN, SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE BUILDING CODE APPROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY THE CONTRACTOR, WHICH CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD.

3. ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED HARDWARE.

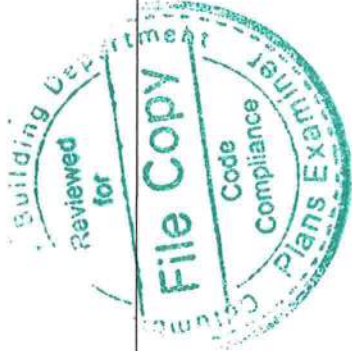
4. SPECIFICATIONS APPLICABLE TO METAL PANELS FASTENED DIRECTLY TO TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, METAL PANELS SHALL BE FASTENED TO HAT CHANNELS (UNLESS OTHERWISE NOTED).

DESIGN LOAD NOTES:

1. BASIC WIND SPEED = 120 MPH
EXPOSURE CATEGORY = C
RISK CATEGORY = I

2. DESIGN LIVE LOAD = 12 PSF

ENCLOSED METAL BUILDING DESIGN MAXIMUM 20'-0" WIDE X 14'-0" EAVE HEIGHT A-FRAME & REGULAR STYLE



This item has been digitally signed and sealed by Richard E. Walker, P.E., on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Digitally signed
by Richard E.
Walker
Date: 2024.04.08
13:26:53-04'00'

MEMBER LEGEND

- POST = 2.5"x2.5"x14GA TUBE W/ 2.25"x2.25"x14GA TUBE INSERT
- ROOF GABLE BEAM = 2.5"x2.5"x14GA TUBE
- BASE RAIL = 2.5"x2.5"x14GA TUBE
- PEAK BRACE = 2.5"x2.5"x14GA TUBE / 2.5"x1.5"x14GA CHANNEL
- KNEE BRACE = 2.5"x1.5"x14GA TUBE / 2.5"x1.5"x14GA CHANNEL
- CONNECTOR SLEEVE = 2.25"x2.25"x12GA TUBE
- BASE ANGLE = 2"x2"x3"x3/16" ANGLE
- PURLIN = 4.25"x1.5"x18GA / 14GA HAT CHANNEL
- GIRT = 4.25"x1.5"x18GA / 14GA HAT CHANNEL
- SHEATHING = 29 GA CORRUGATED SHEET
- END WALL POST = 2.5"x2.5"x14GA TUBE
- DOOR POST = 2.5"x2.5"x14GA TUBE
- SINGLE HEADER = 2.5"x2.5"x14GA TUBE
- DOUBLE HEADER = (2) 2.5"x2.5"x14GA TUBE
- SERVICE DOOR / WINDOW FRAMING = 2.5"x2.5"x14GA TUBE
- ANGLE BRACKET = 2"x2"x2"x14GA ANGLE
- STRAIGHT BRACKET = 2"x2"x4"x14GA PLATE
- PB SUPPORT = 2.5"x2.5"x14GA TUBE
- DIAGONAL BRACE = 2"x2"x14GA TUBE
- GABLE BRACE = 2"x2"x14GA TUBE
- DB BRACKET = 2.25"x2.25"x6"x14GA ANGLE
- TRUSS SPACER = 2.5"x2.5"x14GA TUBE
- ALL FASTENERS = #12X1" SDS (ESR-2196 OR EQ.)

FRAMING NOTES:

- MAX POST SPACING = 4'-0" O.C.
- MAX ROOF SLOPE = 3V:12H
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
- ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQUIVALENT).
- STEEL SHEATHING SHALL BE 29GA CORRUGATED GALVANIZED OR PAINTED STEEL - MAIN RIB HEIGHT 3/4" (80 KSI YIELD STRENGTH) OR EQUIVALENT.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
- STRUCTURAL TUBE TS 2.5"x2.5"x14GA IS EQUIVALENT TO TS 2.25"x2.25"x12GA AND EITHER MAY BE USED IN LIEU OF THE OTHER.

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLeng.com
Orders@FLeng.com
CA CERT. #39782
PROJECT NO. 2409318



MARTINEZ CARPORTS LLC
CONTRACTOR:
PROJECT DESCRIPTION:
JONES
PID #06-65-17-09613-004
LAKE CITY, FL 32024

DESIGN DATE:	04/04/2024
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	JS
SCALE:	NTS
PAGE:	1

THE ENGINEERING ON THESE PLANS IS SITE SPECIFIC FOR (1) STRUCTURE ONLY AT THE PROVIDED ADDRESS(ES).

Digitally signed
by Richard E
Walker
Date:
2024.04.08
13:26:55-04'00'

EDWARD WALKER
No. 61240
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been digitally signed
and sealed by Richard E. Walker,
P.E. on the date adjacent to the seal.
Printed copies of this document are
not considered signed and sealed
and the signature must be verified
on any electronic copies.

FLORIDA ENGINEERING LLC
4161 TAMAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com

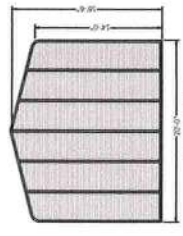
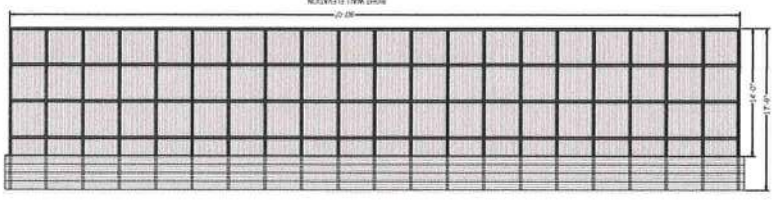
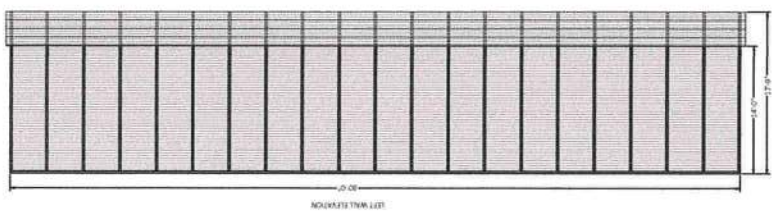
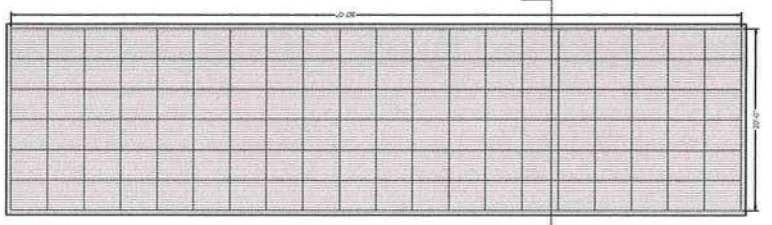
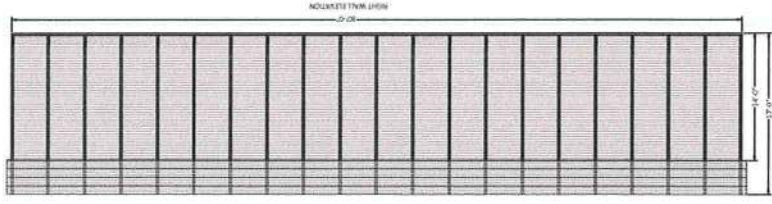
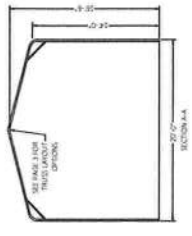
PROJECT NO. 2409318

CA CERT. #30782

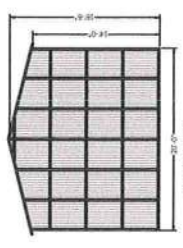
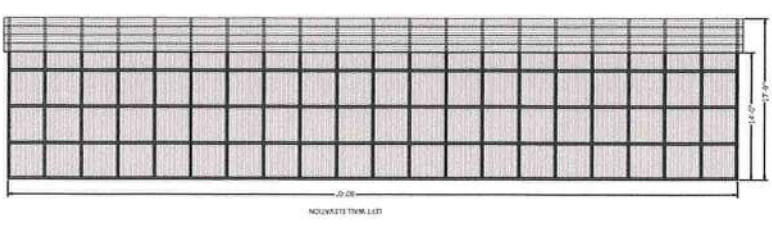
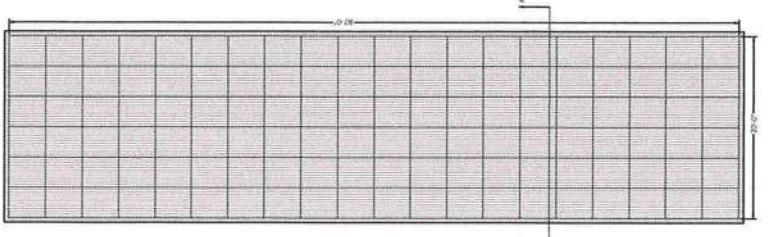
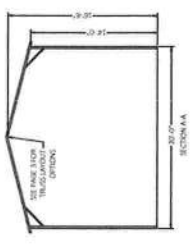
CONTRACTOR:
MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION:
JONES
PID #06-65-17-09613-004
LAKE CITY, FL. 32024

DESIGN DATE:	04/04/2024
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	JS
SCALE:	NTS
PAGE:	2

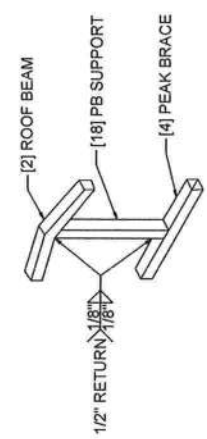
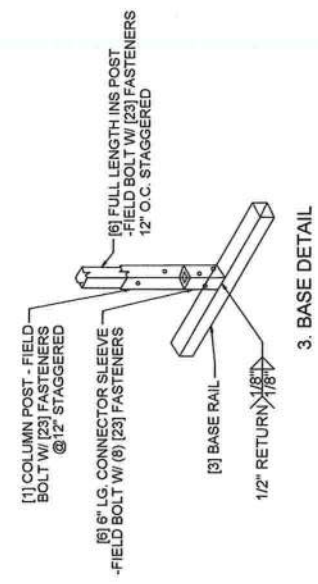
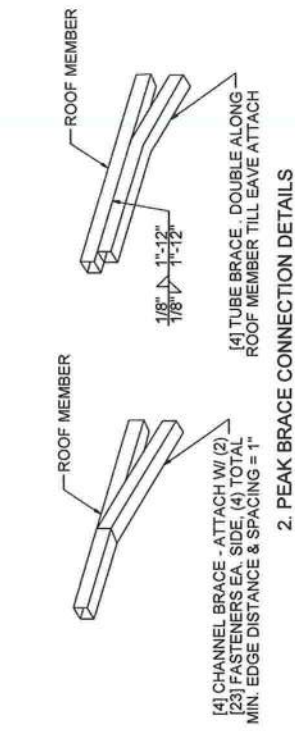
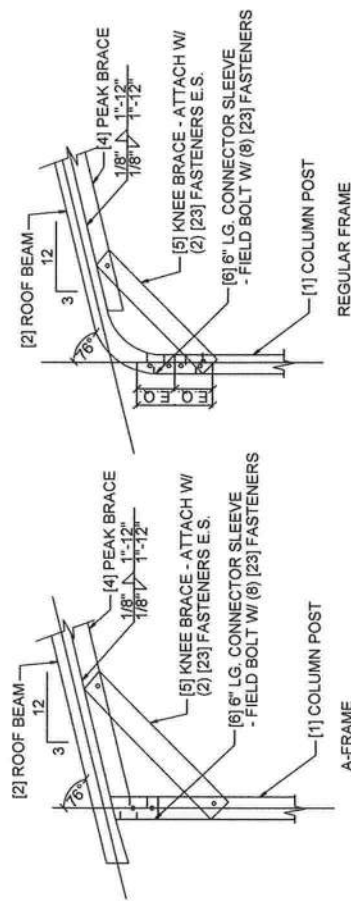
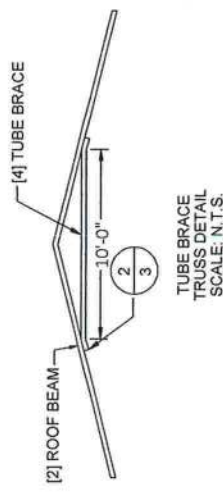
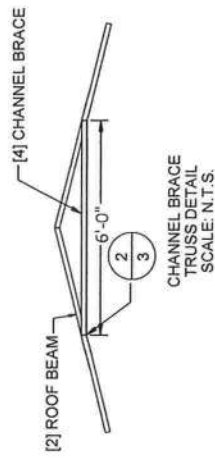


REGULAR STYLE BUILDING



A-FRAME STYLE BUILDING

Digitally signed
by Richard E
Walker
Date: 2024.04.08
13:26:56-04'00'



() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

FLORIDA ENGINEERING LLC
4161 TAMAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5880
FLeng.com
Orders@FLeng.com
CA CERT. #30782

PROJECT NO. 2409318

CONTRACTOR: MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION: JONES
PID #06-65-17-09613-004
LAKE CITY, FL 32024

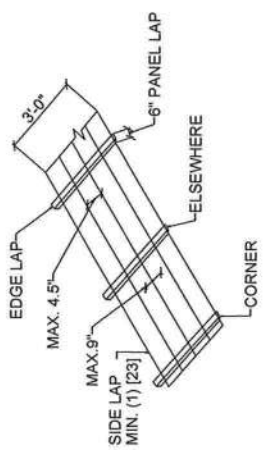
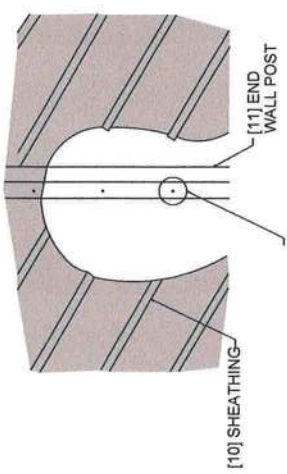
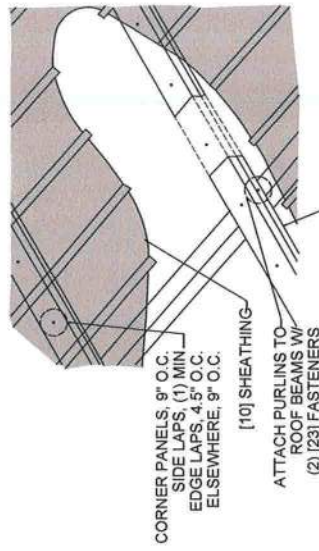
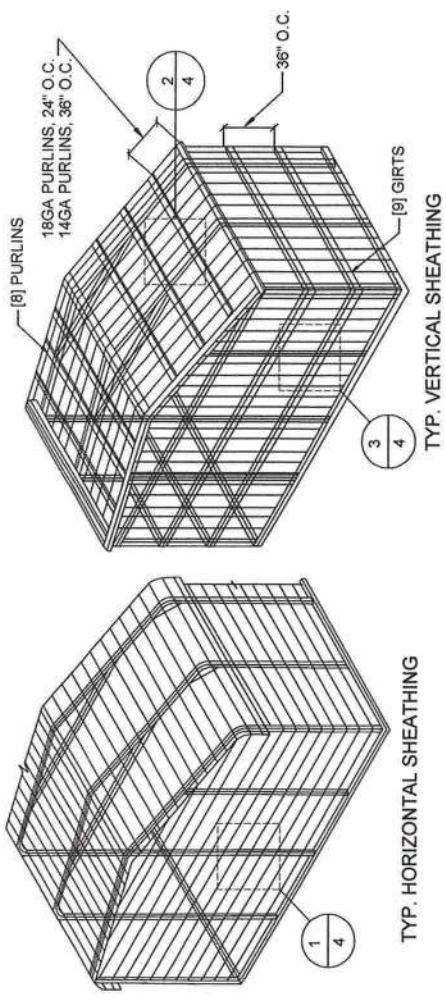
DESIGN DATE:	04/04/2024
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	JIS
SCALE:	NTS
PAGE :	3

Digitally signed
by Richard E
Walker
Date: 2024.04.08
13:26:57-04'00'

EDWARD WALKER
No. 61240
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been digitally signed
and sealed by Richard E. Walker,
P.E. on the date adjacent to the seal.
Printed copies of this document are
not considered signed and sealed
and the signature must be verified
on any electronic copies.

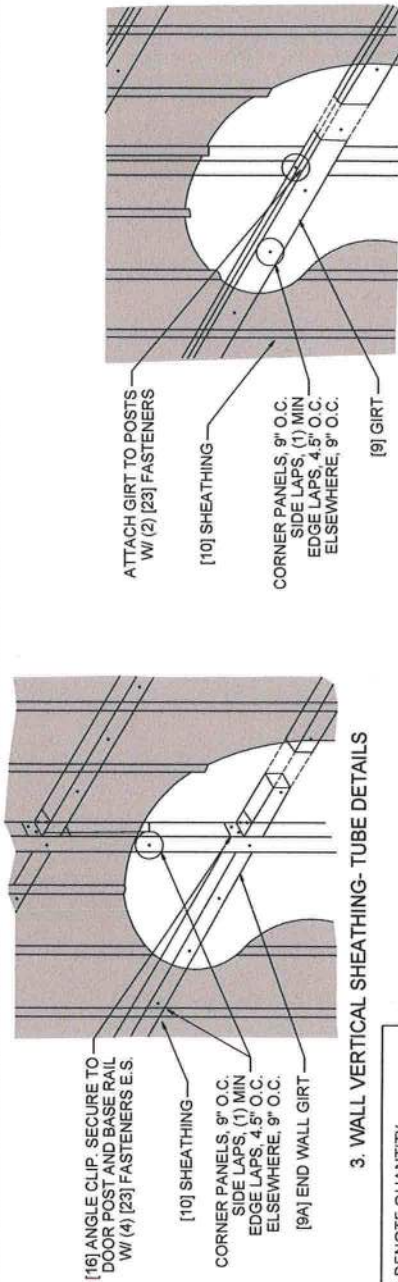
- GENERAL SHEATHING NOTES:
1. REGULAR STYLE BUILDING CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
 2. A FRAME STYLE BUILDING CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOF AND WALLS.
 3. BOTH HORIZONTAL AND VERTICAL ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
 4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING.
 5. VERTICAL SHEATHING RECOMMENDED FOR 40'-0" WIDE BUILDING.



2. ROOF VERTICAL SHEATHING DETAILS

1. TYP. HORIZONTAL SHEATHING DETAILS

TYP. SHEATHING FASTENER SCHEDULE



3. WALL VERTICAL SHEATHING- TUBE DETAILS

3. WALL VERTICAL SHEATHING- HAT CHANNEL DETAILS

() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

FF

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com
CA CERT. #30782

PROJECT NO. 2409318

CONTRACTOR:		MARTINEZ CARPORTS LLC	
PROJECT DESCRIPTION:		JONES PID #06-65-17-09613-004 LAKE CITY, FL 32024	
DESIGN DATE:	04/04/2024	REVISION 1:	DATE
REVISION 2:	DATE	DRAWN BY:	JIS
SCALE:	NTS	PAGE:	4

Digitally signed
by Richard E
Walker
Date: 2024.04.08
13:26:59-04'00'

EDWARD WALKER
No. 61240
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been digitally signed
and sealed by Richard E. Walker,
P.E. on the date adjacent to the seal.
Printed copies of this document are
not considered signed and sealed
on any electronic copies.

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com
CA CERT. #30782

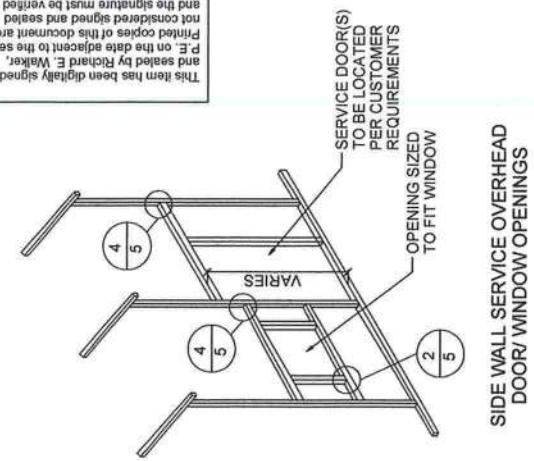
PROJECT NO. 2409318

MARTINEZ CARPORTS LLC
CONTRACTOR

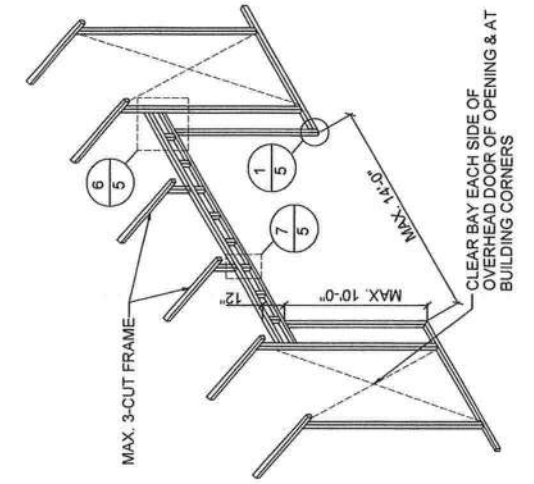
JONES
PID #06-65-17-09613-004
LAKE CITY, FL 32024

PROJECT DESCRIPTION

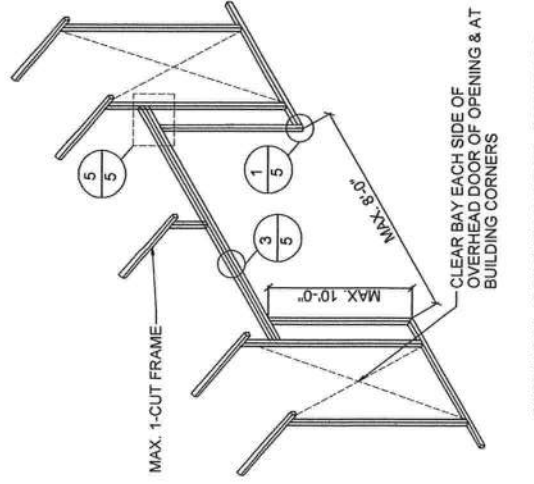
DESIGN DATE:	04/04/2024
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	JS
SCALE	NTS
PAGE	5



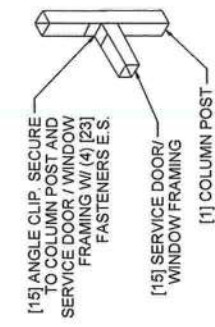
SIDE WALL SERVICE OVERHEAD
DOOR/ WINDOW OPENINGS



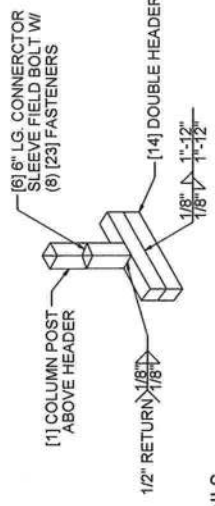
SIDE WALL OVERHEAD DOOR OPENINGS
WITH TRUSS STYLE HEADER



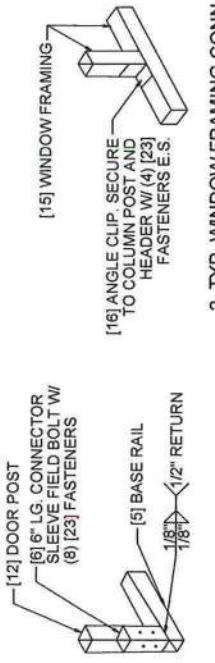
SIDE WALL OVERHEAD DOOR OPENINGS



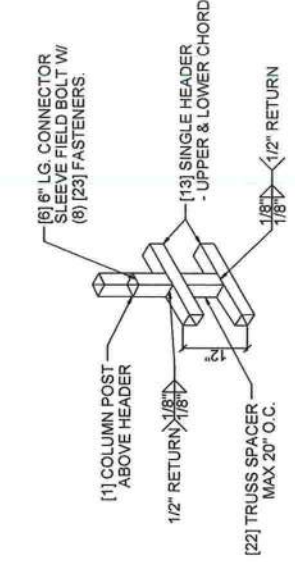
4. TYP. SERVICES DOOR/ WINDOW
FRAMING CONN. DETAILS



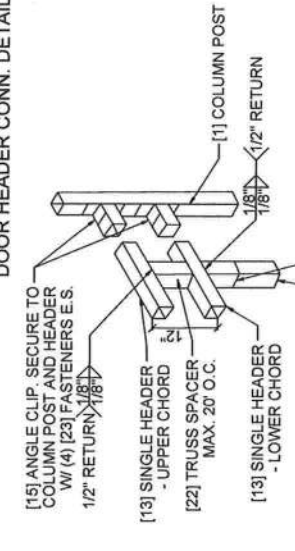
3. COLUMN POST ABOVE DBL.
DOOR HEADER CONN. DETAIL



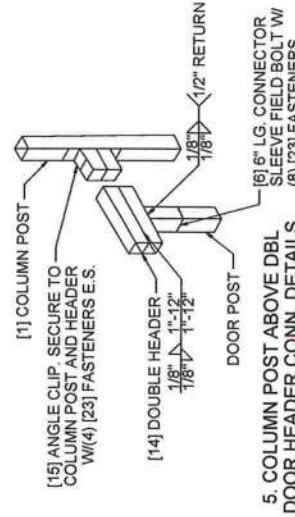
1. DOOR POST BOT. CONN. DETAILS



7. COLUMN POST ABOVE TRUSS
DOOR HEADER CONN. DETAILS



6. COLUMN POST ABOVE TRUSS
DOOR HEADER CONN. DETAILS



5. COLUMN POST ABOVE DBL
DOOR HEADER CONN. DETAILS

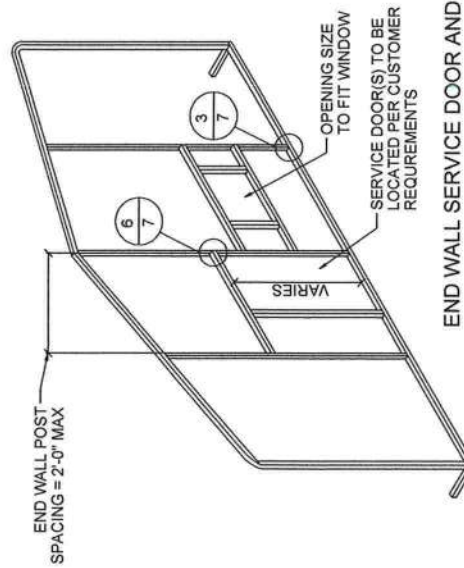
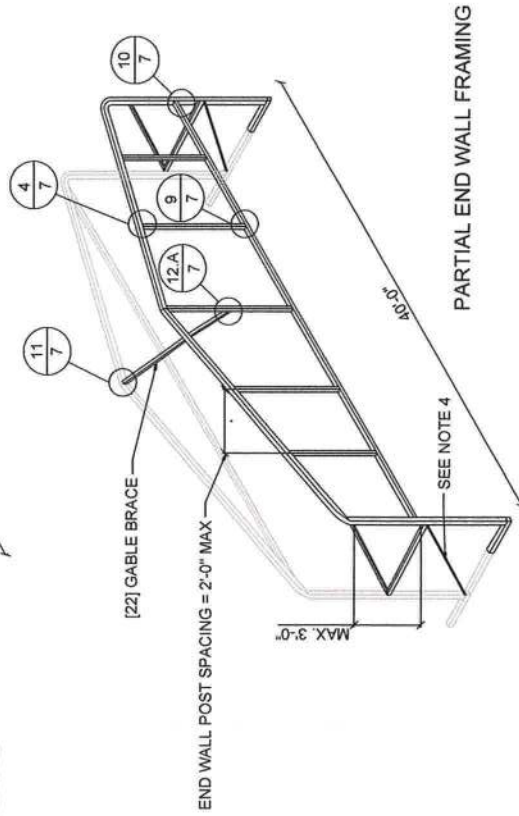
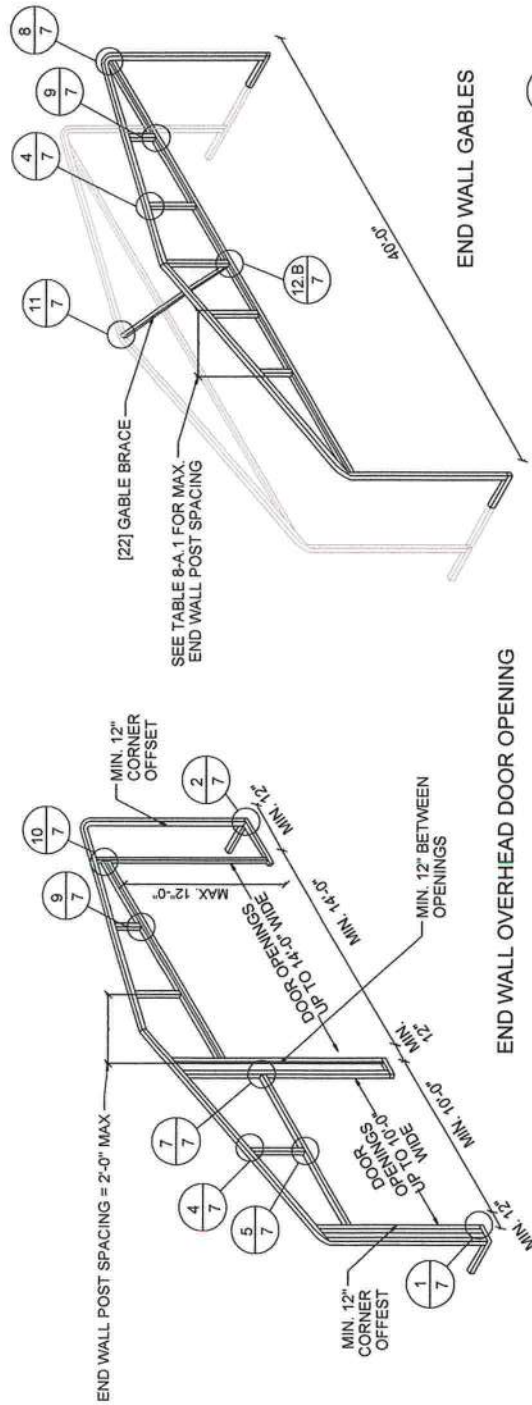
() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

Digitized by Rishabh Walkar
Date: 2024-13:27

AMERICAN TRAIL, UNIT 101
HARLOTTE, FLORIDA 33952
(941) 391-5980
FLENG.com
Orders@FLENG.com
CA CERT. #30782

MARKINLEE DAWN ONTS LEO
PROJECT DESCRIPTION:
JONES
PID #06-65-17-09613-004
LAKE CITY, FL. 32024

IN DATE:	04/04/2024	PAGE: 6
ION 1:	DATE	
ION 2:	DATE	
IN BY:	JS	
EE:	NTS	



END WALL FRAMING NOTES:

1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A- FRAME STYLE BUILDING.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENING (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOOR AND WINDOW CAN BE PLACED AS NEEDED.

() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

Digitally signed
by Richard E
Walker
Date:
2024.04.08
13:27:01-04'00'

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 61240

RICHARD E. WALKER

This item has been digitally signed
and sealed by Richard E. Walker,
P.E., on the date adjacent to the seal.
Printed copies of this document are
not considered signed and sealed
and the signature must be verified
on any electronic copies.

FLORIDA ENGINEERING LLC

4161 TAMAMI TRAIL, UNIT 101

PORT CHARLOTTE, FLORIDA 33952

(941) 391-5980

FLeng.com

Orders@FLeng.com

CA CERT. #30782

FF

PROJECT NO. 2409318

MARTINEZ CARPORTS LLC

CONTRACTOR:

JONES
PID #06-65-17-09613-004
LAKE CITY, FL 32024

PROJECT DESCRIPTION:

DESIGN DATE: 04/04/2024

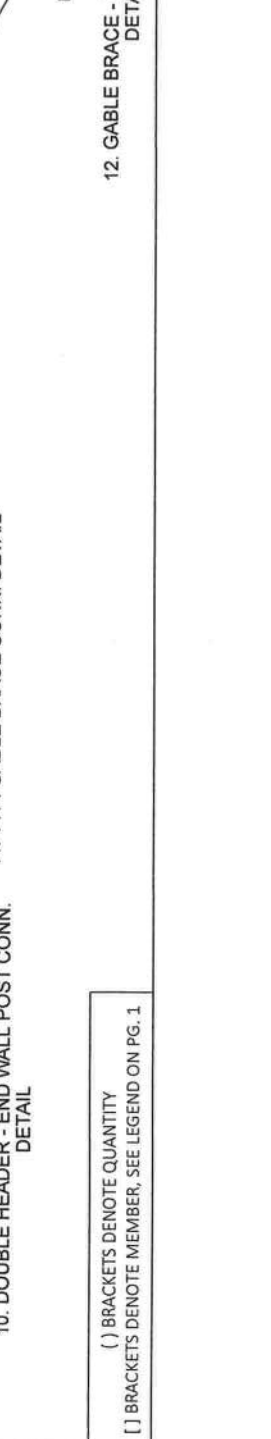
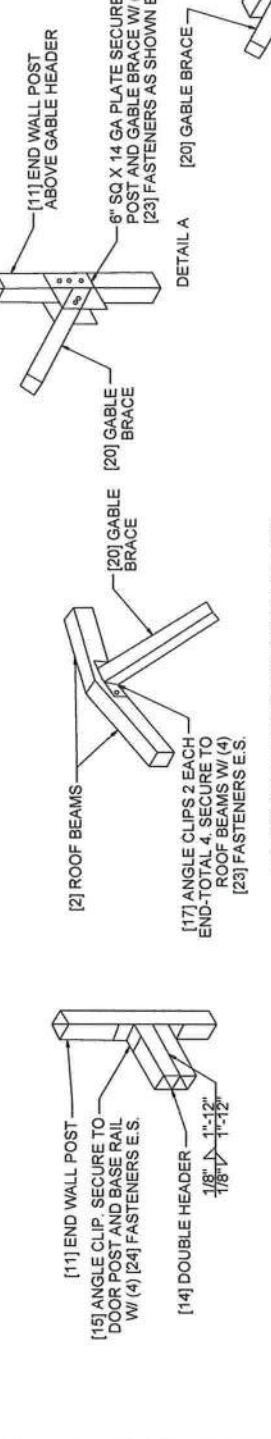
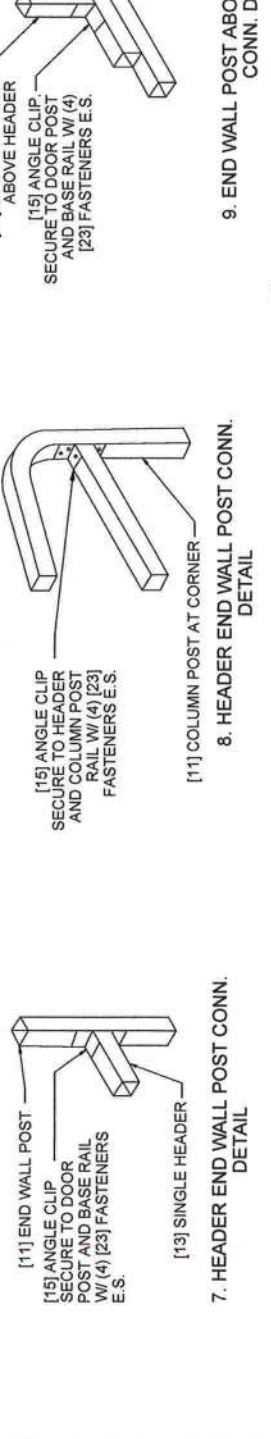
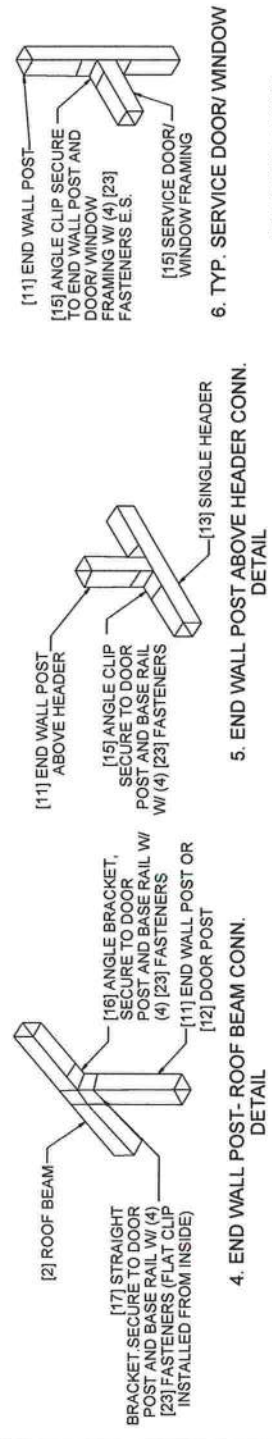
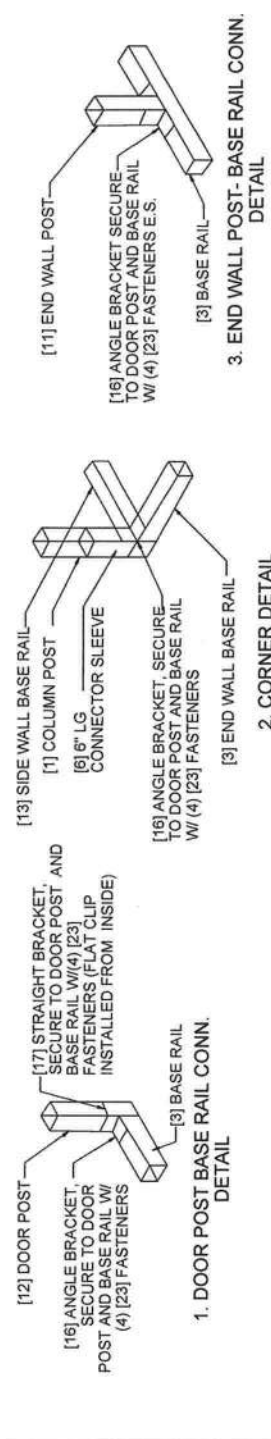
REVISION 1: DATE

REVISION 2: DATE

DRAWN BY: JS

SCALE: NTS

PAGE: 7



() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

Digitally signed
by Richard E
Walker
Date:
2024.04.08
13:27:03-04'00'

EDWARD WALKER
No. 61240
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1

9

This item has been digitally signed
and sealed by Richard E. Walker,
P.E. on the date adjacent to the seal.
Printed copies of this document are
not considered signed and sealed
and the signature must be verified
on any electronic copies.

FLORIDA ENGINEERING LLC
4161 TAMAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com
CA CERT. #30782

FE

PROJECT NO. 2409318

CONTRACTOR: MARTINEZ CARPORTS LLC		PROJECT DESCRIPTION: JONES PID #06-65-17-09613-004 LAKE CITY, FL. 32024	
DESIGN DATE:	04/04/2024	REVISION 1:	DATE
REVISION 2:	DATE	DRAWN BY:	JS
SCALE:	NTS	PAGE:	8

OPTIONAL LEAN-TO ADDITION

LEAN-TO ADDITION NOTES:

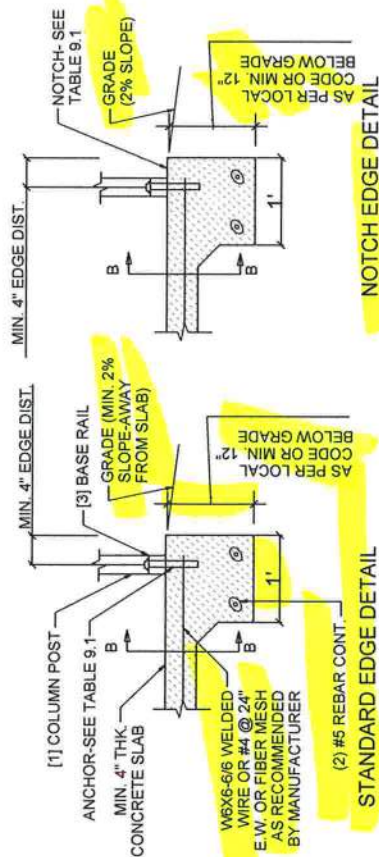
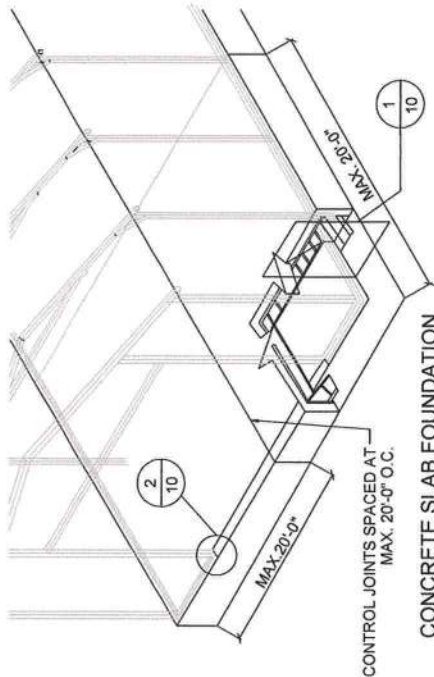
1. LEAN-TO ADDITION CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. ROOF SLOPE, PURLIN, GIRT AND FREAM SPACING OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
3. IF THE LEAN-TO ADDITION IS "OPEN" (BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF 4'-0" MAX.

LEAN-TO ATTACHMENT DETAIL

() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

CONCRETE SLAB FOUNDATION NOTES: SLAB FOUNDATION NOTES

- DESIGN SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION.
- CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDING WITH END WALLS. ONE ON EACH BASE RAIL IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND. ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHOR PER POST SHALL BE AS SHOWN.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5' FOR 14GA MATERIAL AND 5' FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.
- ANCHORS ARE TO BE 1/2" CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE 2'.
- ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



1. EDGE OFFSET DETAIL

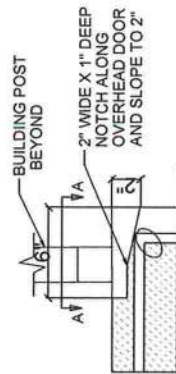


TABLE 9.1: NOTCH WIDTH			
HORIZONTAL/OPEN	VERTICAL	VERTICAL	VERTICAL
14GA	12GA	14GA	12GA
2.75"	2.875"	1.75"	1.875"

NOTE: DEPTH IS TO BE 1 1/2"

() BRACKETS DENOTE QUANTITY

([] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

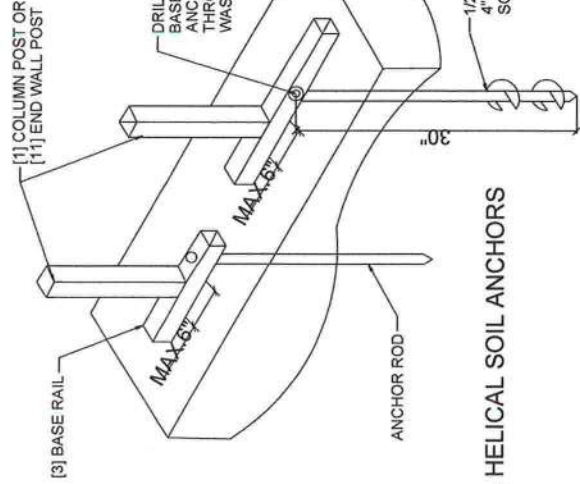
Digitally signed by Richard E Walker
Date: 2024.04.08 13:27:04-04'00'

EDWARD WALKER
No. 61240
STATE OF FLORIDA
PROFESSIONAL ENGINEER

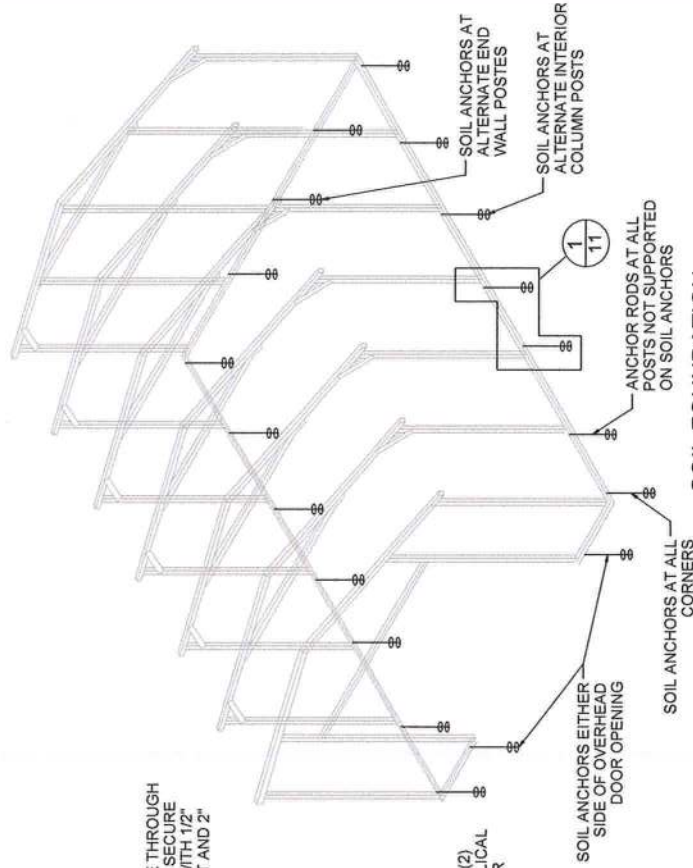
This item has been digitally signed and sealed by Richard E. Walker, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com
CA CERT. #30782
PROJECT NO. 2409318

MARTINEZ CARPORTS LLC
CONTRACTOR:
JONES
PID #06-65-17-09613-004
LAKE CITY, FL 32024
PROJECT DESCRIPTION:
DESIGN DATE: 04/04/2024
REVISION 1: DATE
REVISION 2: DATE
DRAWN BY: JS
SCALE: NTS
PAGE: 6



1. HELICAL SOIL ANCHORS



2. ROCK / ASPHALT ANCHORS

SOIL FOUNDATION NOTES: FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
- SOIL ANCHOR (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE[3] BASE RAIL, OF OVERHEAD DOOR OPENING. ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- HELICAL ANCHOR ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
- HELICAL ANCHOR CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATION THIS PAGE)
- ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL
- ASSUME SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

SOIL CLASSIFICATIONS

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS.
3	SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SAND, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SAND, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.

() BRACKETS DENOTE QUANTITY
[] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

This item has been digitally signed
and sealed by Richard E. Walker,
P.E. on the date adjacent to the seal.
Printed copies of this document are
not considered signed and sealed
on any electronic copies.



Digitally signed
by Richard E
Walker
Date:
2024.04.08
13:27:05-04'00'

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com
CA CERT. #30782
PROJECT NO. 2409318



CONTRACTOR:
MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION:
JONES
PID #06-65-17-09613-004
LAKE CITY, FL 32024

DESIGN DATE:	04/04/2024
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	JS
SCALE:	NTS
PAGE:	10

