

APPLICABLE CODES AND STANDARDS

- 2023 FLORIDA BUILDING CODE (8TH EDITION)
- ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- AWS D1.1: STRUCTURAL WELDING

DESIGN LOADS

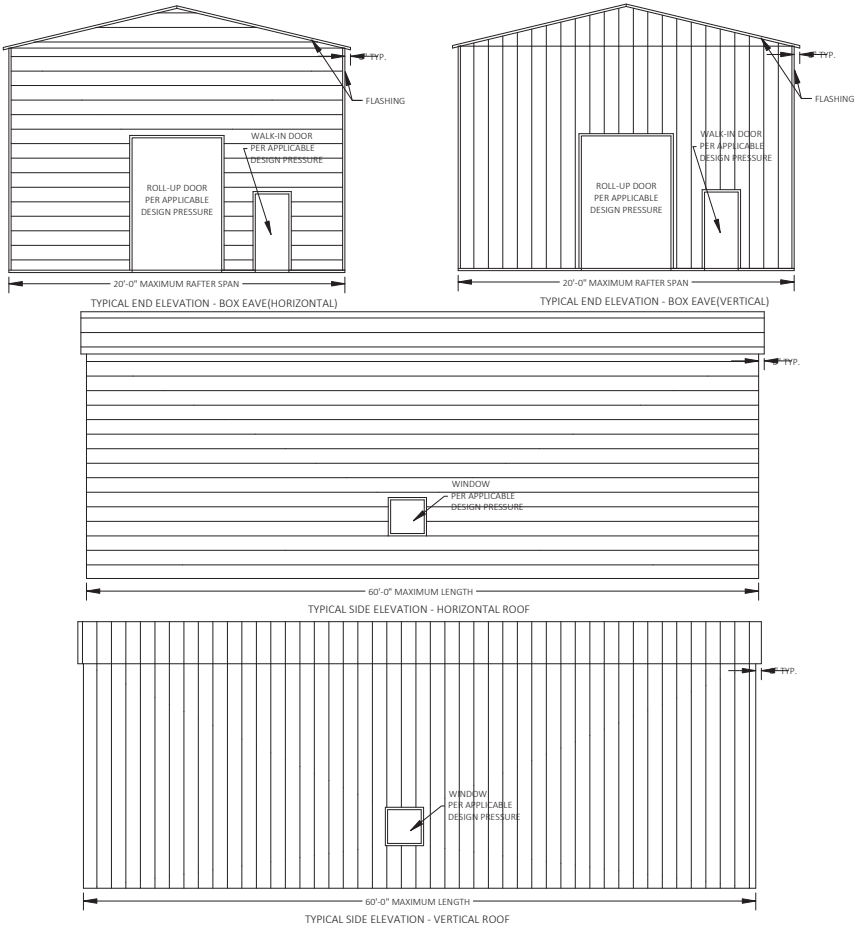
- DEAD LOAD = 10 PSF
- LIVE LOAD = 10 PSF
- GROUND SNOW LOAD = 1 PSF
- WIND LOAD
 - RISK CATEGORY = I
 - WIND EXPOSURE CATEGORY = C
 - ULTIMATE WIND SPEED = 110 MPH
NOMINAL WIND SPEED = 86 MPH
 - STRUCTURE HAS BEEN DESIGNED TO WITHSTAND WIND SPEEDS UP TO 170 MPH PER CONTRACTORS REQUEST.

INSTALLATION NOTES AND SPECIFICATIONS

- END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING U.N.O.
- SPECIFICATIONS APPLICABLE TO 29 GA METAL PANELS FASTENED DIRECTLY TO 2.5”X2.5”X14 GA TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.
- AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9” AND END = 6” MAX.
- FASTENERS CONSIST OF #12-14X3/4” SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20’-0” OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6” OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBARS WITH WELDED NUT X 30” LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. SOIL NAILS MAY BE USED FOR WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.
- RAFTER SPACING IS 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH AND 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 170 MPH.
- CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS: CONTRACTOR TO VERIFY THAT THE FINISHED FLOOR ELEVATION FOR THE PROPOSED STRUCTURE IS AT OR ABOVE THE GREATER OF THE FOLLOWING ELEVATIONS:
 - BFE (BASE FLOOD ELEVATION) + H
 - H = 1'-0" (RISK CATEGORY I & II BUILDINGS)
 - H = 2'-0" (RISK CATEGORY III & IV BUILDINGS)
 - DFE (DESIGN FLOOD ELEVATION)
 - THE MINIMUM ELEVATION MANDATED BY THE BUILDING CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

ENCLOSED METAL BUILDING DESIGN
MAXIMUM 20'-0" WIDE X 60'-0" LONG X 16'-0" HIGH (EAVE)
BOX EAVE FRAME

PROPOSED BUILDING DIMENSION:
20'-0" WIDE x 45'-0" LONG x 13'-0" HEIGHT



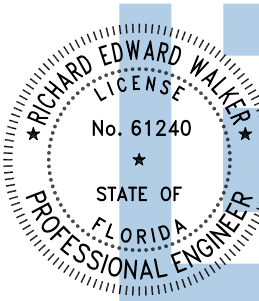
ADJUSTED C & C WIND PRESSURES (ASD) (PSF)															
ROOF	EWA = 10 FT²		EWA = 20 FT²		EWA = 50 FT²		EWA = 100 FT²		EWA = 200 FT²		EWA = 300 FT²		EWA = 500 FT²		EWA = 1000 FT²
Zone 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zone 1	15.5	-34.4	14.6	-30.2	13.4	-24.8	12.5	-20.7	11.5	-16.6	11.5	-14.2	11.5	-14.2	11.5
Zone 2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zone 2	15.5	-43.8	14.6	-38.5	13.4	-31.5	12.5	-26.2	11.5	-20.9	11.5	-20.9	11.5	-20.9	11.5
Zone 3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zone 3	15.5	-55.9	14.6	-48.6	13.4	-39.0	12.5	-31.7	11.5	-31.7	11.5	-31.7	11.5	-31.7	11.5
ROOF O/H	EWA = 10 FT²		EWA = 20 FT²		EWA = 50 FT²		EWA = 100 FT²		EWA = 200 FT²		EWA = 300 FT²		EWA = 500 FT²		EWA = 1000 FT²
Zone 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zone 1	NA	-47.8	NA	-43.0	NA	-36.6	NA	-31.8	NA	-27.0	NA	-24.1	NA	-23.6	NA
Zone 2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zone 2	NA	-57.2	NA	-51.2	NA	-43.3	NA	-37.3	NA	-31.2	NA	-30.9	NA	-30.3	NA
Zone 3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zone 3	NA	-69.3	NA	-61.3	NA	-50.7	NA	-42.8	NA	-42.0	NA	-41.6	NA	-41.1	NA
WALL	EWA = 10 FT²		EWA = 20 FT²		EWA = 50 FT²		EWA = 100 FT²		EWA = 200 FT²		EWA = 300 FT²		EWA = 500 FT²		EWA = 1000 FT²
Zone 4	20.9	-22.2	20.2	-21.5	19.2	-20.6	18.5	-19.9	17.8	-19.2	17.4	-18.8	16.9	-18.2	16.9
Zone 5	20.9	-26.3	20.2	-24.9	19.2	-23.0	18.5	-21.5	17.8	-20.1	17.4	-19.3	16.9	-18.2	16.9

CONTRACTOR TO PROVIDE BUILDING CODE APPROVED PRODUCTS
TO MEET OR EXCEED THE DESIGN PRESSURES AS TABULATED.

DRAWING INDEX

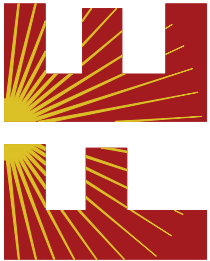
PAGE NO.	DESCRIPTION
1	NOTES AND SPECIFICATIONS
2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
3	CONNECTION DETAILS (1-2)
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
6	CONNECTION DETAILS (4-9)
7	CONNECTION DETAILS (10-12)
8	BOX EAVE RAFTER LEAN-TO OPTIONS
9	CONNECTION DETAILS (14-16)
10	BOX EAVE RAFTER HORIZONTAL ROOF/SIDING OPTION
11	OPTIONAL HELICAL ANCHORING DETAIL

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:
2026.07.31
14:15:34-04'00'

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. 2519749-R

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

REVISION 2: DATE

JS

SCALE: NTS

SHEET:

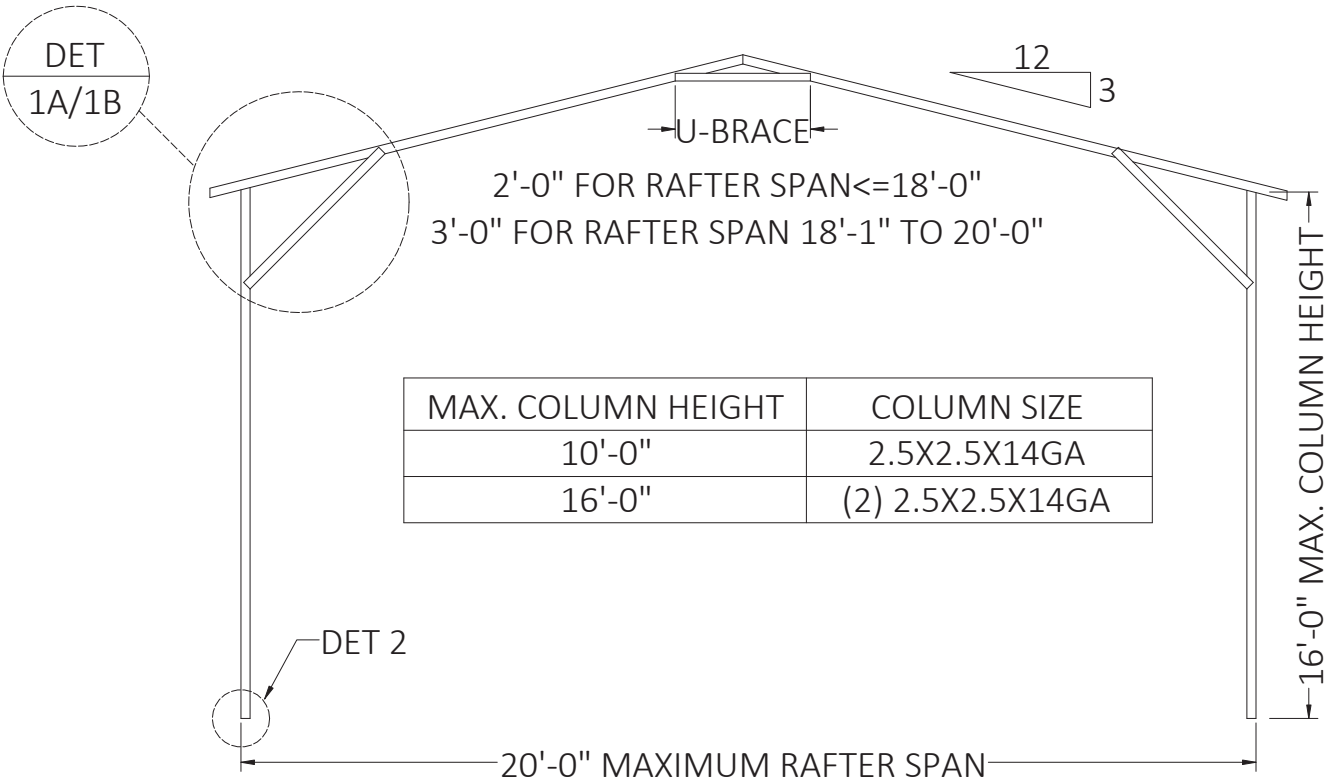
1 OF 11

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

MEMBER LEGEND:

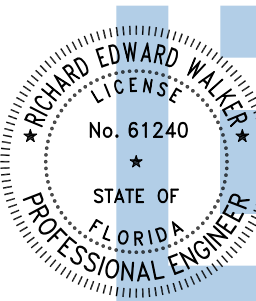
- 1. ALL COLUMNS = 2.5"X2.5"X14GA TUBE
- 2. KNEE-BRACE = 2.5"X1.5"X18GA CHANNEL
- 3. PURLIN = 1.5"X18GA HAT CHANNEL
- 4. TRUSS BEAMS = 2.5"X2.5"X14GA TUBE
- 5. TS-BRACE = 2.5"X2.5"X14GA TUBE

TRUSS LAYOUT



BOX EAVE FRAME

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: 2026.07.31 14:15:36-04'00'

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. 2519749-R

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

REVISION 2: DATE

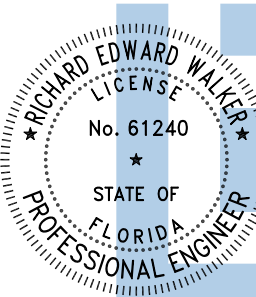
SHEET:

DRAWN BY: JS

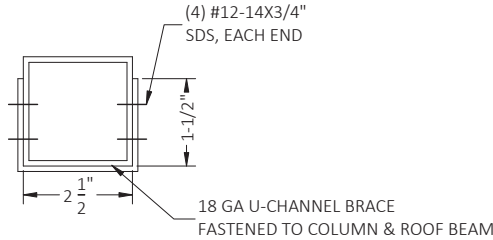
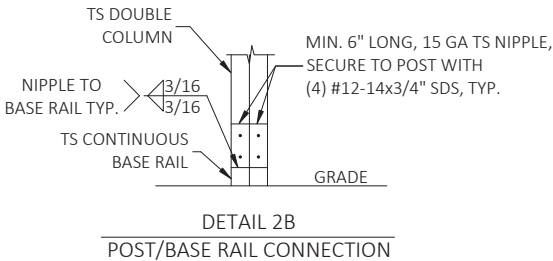
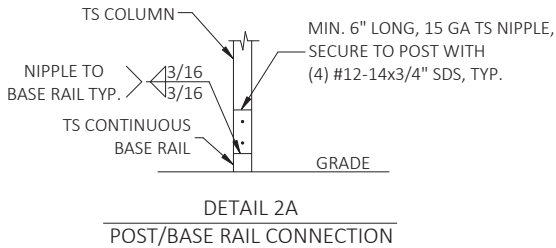
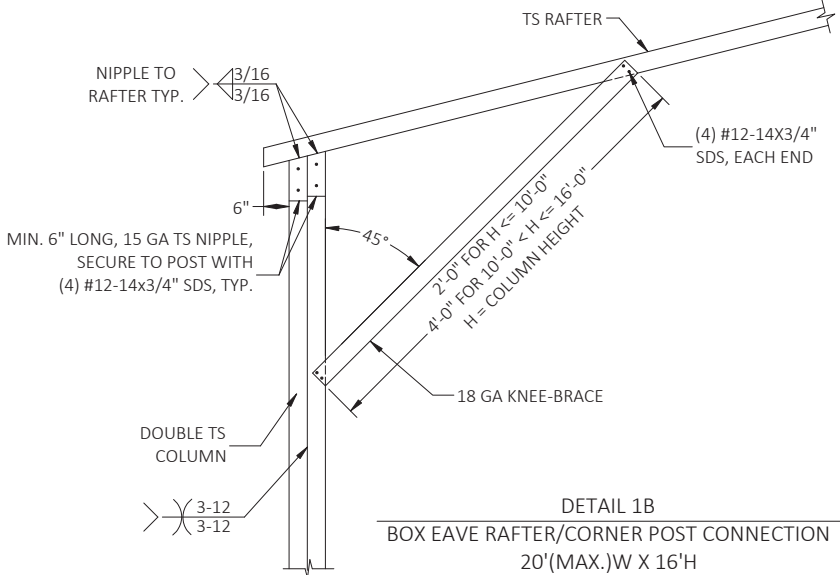
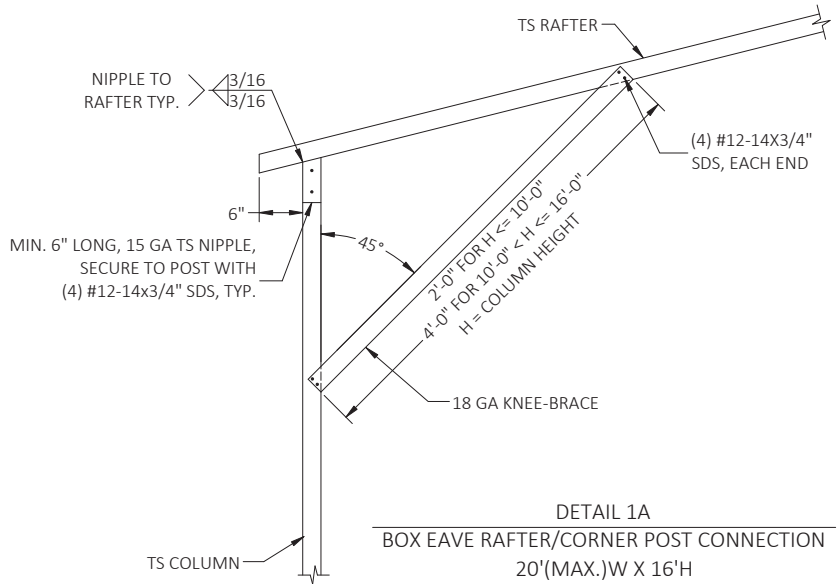
SCALE: NTS

2 OF 11

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:
2026.07.31
14:15:38-04'00'



FLORIDA ENGINEERING LLC

4161 TAMiami TRAIL, UNIT 101

PORT CHARLOTTE, FLORIDA 33952

(941) 391-5980

FLeng.com

Orders@FLeng.com

PROJECT NO. 2519749-R

CA CERT. #30782

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

REVISION 2: DATE

SHEET:

DRAWN BY: JS

SCALE: NTS

3 OF 11

GENERAL NOTES
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2500 PSF.

- CONCRETE:
1. CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
 2. ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE.
 3. WHERE CONCRETE SPECIFICATIONS ARE REQUIRED, BY ONE OR MORE REGULATORY AGENCY, THE FOLLOWING SPECIFICATIONS ARE APPLICABLE:
 - a. CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING COMPONENTS:
 - i. PORTLAND CEMENT TYPE 1 - ASTM C 150
 - ii. AGGREGATES - LARGE AGGREGATE 3/4 MAX. - ASTM C 33
 - iii. AIR ENTRAINING +/- 1 % - ASTM C 260
 - iv. WATER REDUCING AGENT - ASTM C 494
 - v. CLEAN POTABLE WATER
 - vi. OTHER ADMIXTURES NOT PERMITTED
 - b. CONCRETE SLUMP AT DISCHARGE CHUTE NOT LESS THAN 3" OR MORE THAN 5". WATER ADDED AFTER BATCHING IS NOT PERMITTED.
 - c. PREPARE & PLACE CONCRETE PER AMERICAN CONCRETE INSTITUTE MANUAL OF STANDARD PRACTICE, PART 1, 2, & 3 INCLUDING HOT WEATHER RECOMMENDATIONS.
 - d. MOIST CURE OR POLYETHYLENE CURING PERMITTED.
 4. CONTROL JOINTS SHALL BE PROVIDED AT EVERY 12' O.C. OR 18' O.C. FOR 4" THICK OR 6" THICK CONCRETE SLAB RESPECTIVELY.
 5. TERMITE TREATMENT:

PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE BUILDING CODE:

 - a. TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS OR ANY OTHER APPROVED METHODS OF TERMITE PROTECTION.
 - b. CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT UPON THE COMPLETION OF THE APPLICATION OF TERMITE PROTECTIVE TREATMENT BY A REGISTERED TERMITICIDE.
 - c. INITIAL CHEMICAL SOIL TREATMENT INSIDE THE FOUNDATION PERIMETER SHALL BE DONE AFTER THE COMPLETION OF EXCAVATION, BACKFILLING AND COMPACTION.
 - d. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICALLY TREATED SOIL SHALL BE PROTECTED WITH A MINIMUM 6 MIL VAPOR RETARDER TO PROTECT AGAINST RAINFALL DILUTION. RETREATMENT IS REQUIRED IF RAINFALL OCCURS DURING VAPOR RETARDER PLACEMENT.
 - e. PLACEMENT OF REINFORCING STEEL SHALL BE DONE AVOIDING THE PENETRATION AND DISTURBANCE OF TREATED SOIL.
 - f. CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO CHEMICAL SOIL TREATMENT.
 - g. SOIL TREATMENT SHALL ALSO BE APPLIED TO ALL EXTERIOR CONCRETE OR GRADE WITHIN 1 FOOT OF PRIMARY STRUCTURE SIDE WALLS ALONG WITH A VERTICAL CHEMICAL BARRIER.
 - h. PROTECTIVE SLEEVES AROUND THE PIPING PENETRATING THE CONCRETE SLAB-ON-GRADE FLOORS SHALL NOT BE OF CELLULOSE-CONTAINING MATERIALS.
 - i. A SIGNED CONTRACT ASSURING THE INSTALLATION, MAINTENANCE AND MONITORING SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO POURING OF SLAB IF A BAITING SYSTEM IS TO BE USED BY THE REGISTERED TERMITICIDE.

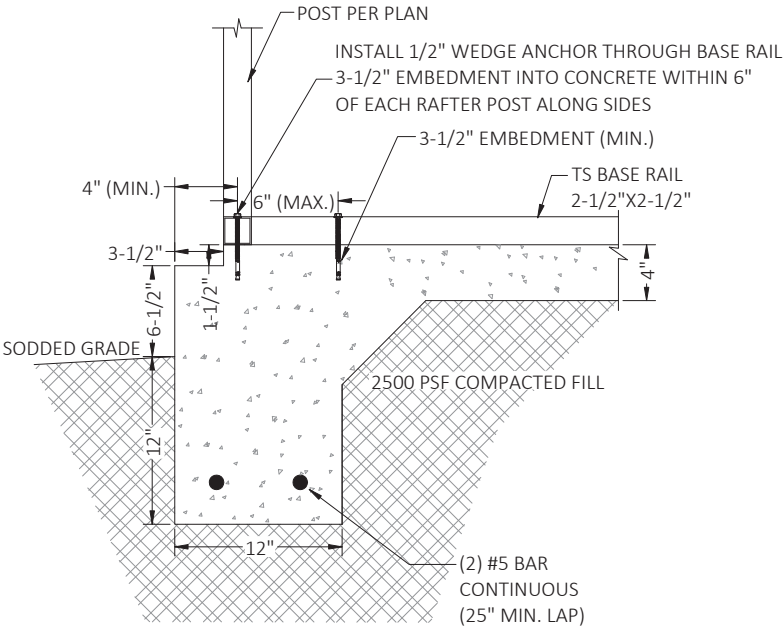
- REINFORCING STEEL:
1. THE REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.
 2. REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS:
 - a. IT IS BENT COLD;
 - b. REINFRCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT;
 - c. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 3. FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3 INCHES WHERE THE CONCRETE IS POURED AGAINST AND TEMPORARY IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH OR WEATHER, OTHERWISE 1-1/2 INCHES.

- FROST PROTECTION:
1. FOUNDATION SHALL BE PROTECTED AGAINST FROST USING RIGID FOAM INSULATION (EPS OR EQUIVALENT). FOR NO FROST PROTECTION OPTION, COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH BASED ON FROST LINE DEPTH.

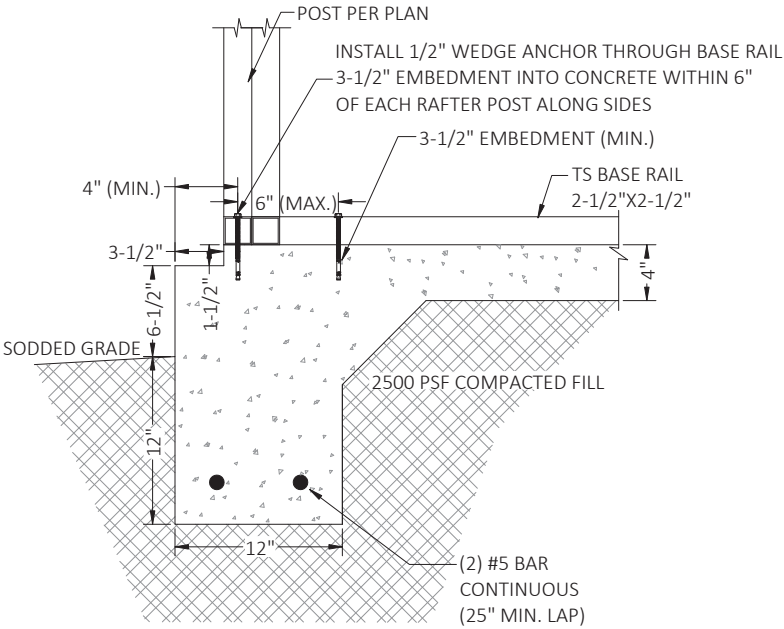
- HELIX ANCHOR NOTES:
1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT INSTALLED AT EVERY POST (LEG) / MAX. RAFTER SPACING.
 2. THE UPLIFT/BEARING CAPACITY OF HELICAL ANCHOR MUST BE EQUAL TO OR GREATER THAN 8.5 KIPS FOR ANCHORS INSTALLED AT EVERY POST (LEG) / MAX. RAFTER SPACING.
 3. THE UPLIFT/BEARING CAPACITY OF HELICAL ANCHORS MUST BE AS SHOWN IN TABLE A FOR ANCHORS PROVIDED AT THE JAMBS OF DOOR OPENINGS. THE INCREASE IN HELICAL ANCHOR CAPACITY MAY BE ACHIEVED BY INCREASING THE DIAMETER AND/OR THE EMBEDMENT OF THE ANCHORS, OR BY USING DIFFERENT ANCHORS DEPENDING ON THE MANUFACTURER'S SPECIFICATIONS.

- HP 9 BARBED DRIVE ANCHOR NOTES:
1. ANCHOR TO BE 3/4" DIA (A529 GRADE 50) WITH 30" MIN. EMBEDMENT & (4) MIN. BARBS AS SHOWN IN DETAIL 3C.
 2. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, ANCHOR SHALL BE INSTALLED AT EVERY POST (LEG) / MAX. RAFTER SPACING.
 3. THE UPLIFT/BEARING CAPACITY OF EACH ANCHOR MUST BE EQUAL TO OR GREATER THAN 8.5 KIPS FOR ANCHORS INSTALLED AT EVERY POST (LEG) / MAX. RAFTER SPACING.
 4. THE UPLIFT/BEARING CAPACITY OF THE ANCHORS MUST BE AS SHOWN IN TABLE A FOR ANCHORS PROVIDED AT THE JAMBS OF DOOR OPENINGS. THE INCREASE IN ANCHOR CAPACITY MAY BE ACHIEVED BY INCREASING THE DIAMETER AND/OR THE EMBEDMENT OF THE ANCHORS, OR BY USING DIFFERENT ANCHORS DEPENDING ON THE MANUFACTURER'S SPECIFICATIONS.

TABLE A			
REQUIRED UPLIFT / BEARING CAPACITY OF HELICAL ANCHORS		RAFTER SPACING (FT.)	
OPENING WIDTH (FT.)	6	11.0	9.5
	8	13.0	11.5
	10	15.0	13.0
	12	17.0	14.5
	14	19.5	16.5
	16	21.5	18.0
	18	23.5	20.0
	20	25.5	21.5

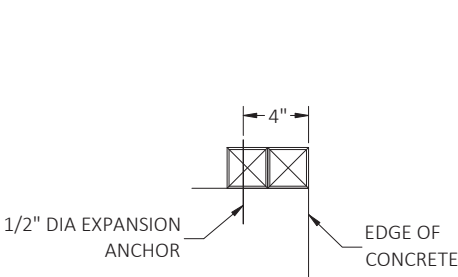


DETAIL 3A-I
CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

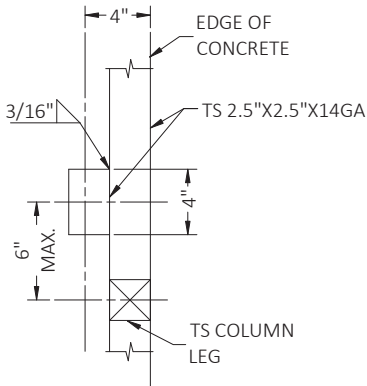


DETAIL 3A-II
CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

BASE RAIL ANCHORAGE OPTIONS

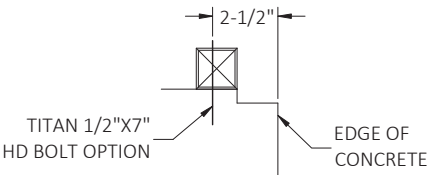


SECTION
(OPTION-1)

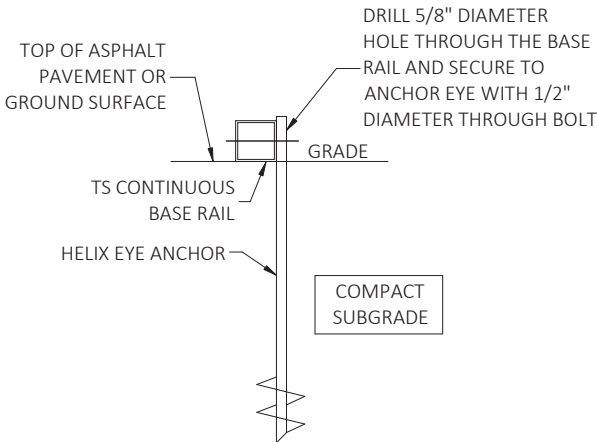


TOP VIEW
(OPTION-1)

TYPICAL ANCHOR DETAIL WHEN BASE
RAIL IS NEAR EDGE OF CONCRETE

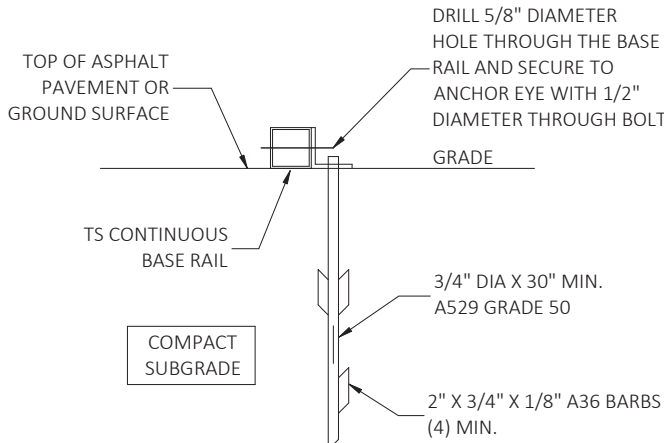


SECTION
(OPTION-2)



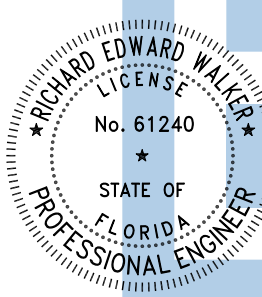
DETAIL 3B
GROUND BASE HELIX ANCHORAGE

BASE RAIL ANCHORAGE OPTION



DETAIL 3C
ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR)

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:
2026.07.31
14:15:40-04'00'

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. 2519749-R

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

REVISION 2: DATE

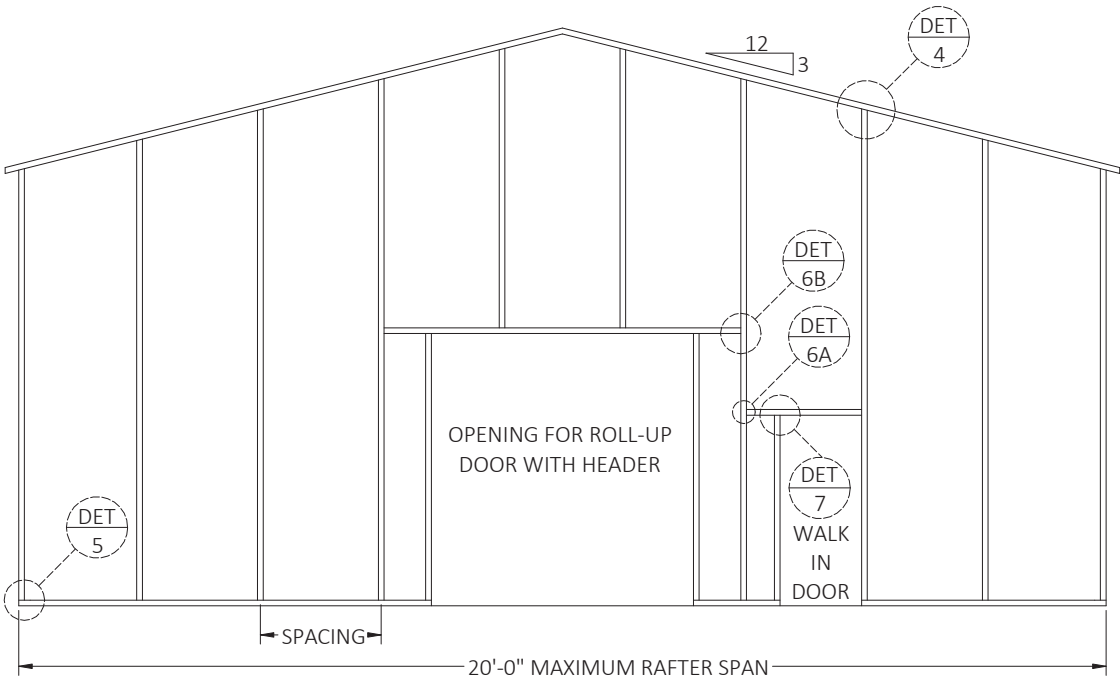
SHEET:

DRAWN BY: JS

SCALE: NTS

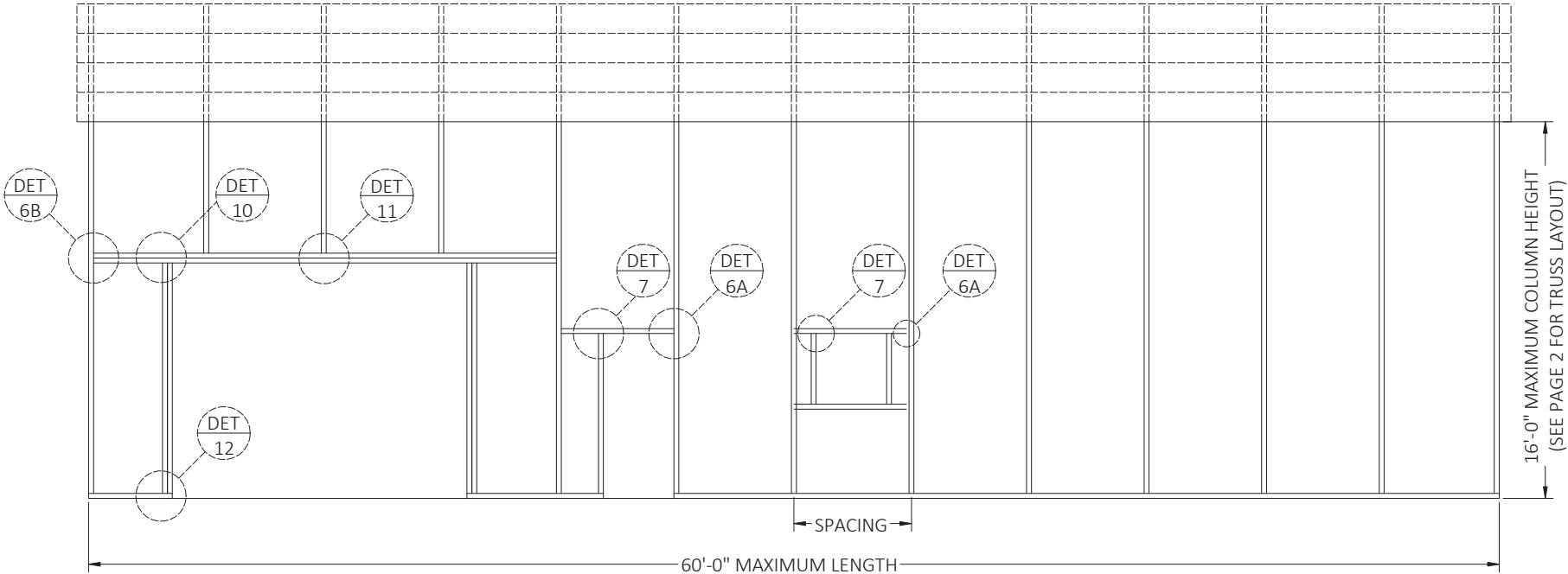
4 OF 11

NOTE: REFER TO PAGE 10
FOR SIDE/END WALL OPENING
HEADER SECTION REQUIREMENT



SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 170 MPH

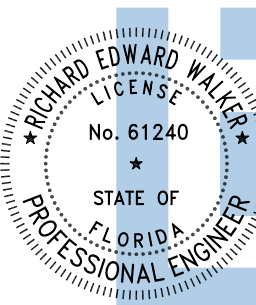
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION



SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 170 MPH

TYPICAL BOW EAVE RAFTER SIDE WALL FRAMING SECTION

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:
2026.07.31
14:15:42-04'00'

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. 2519749-R

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

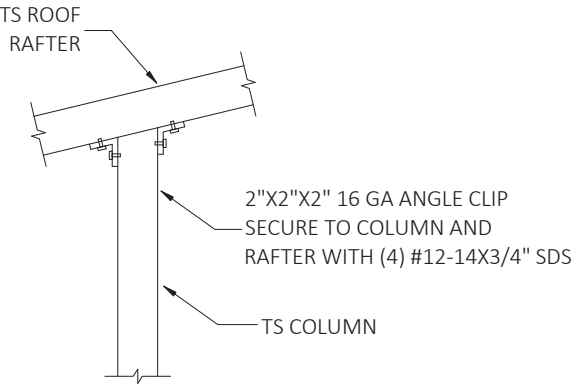
REVISION 2: DATE

SHEET:

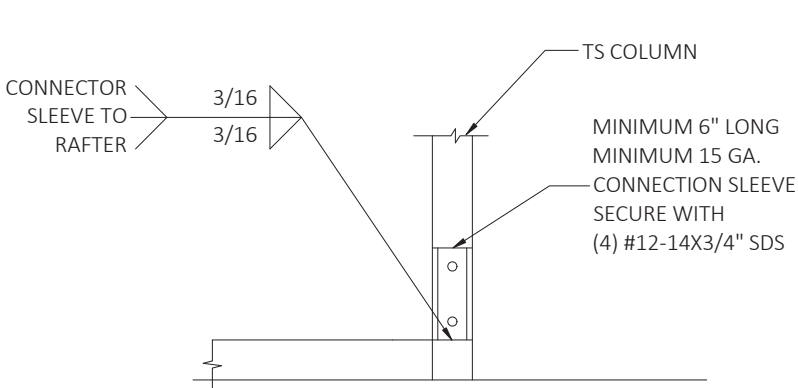
DRAWN BY: JS

SCALE: NTS

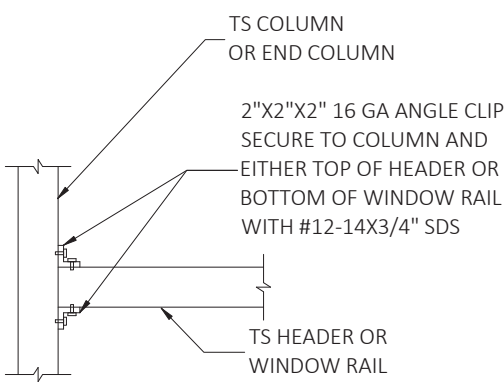
5 OF 11



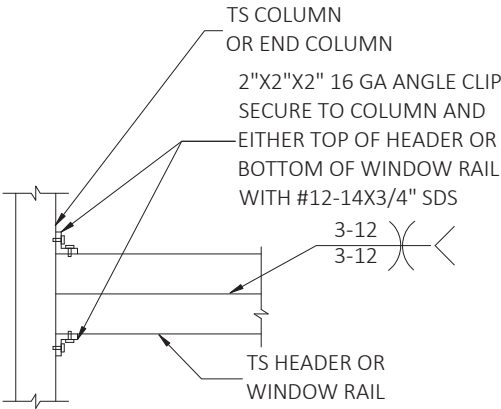
DETAIL 4
END COLUMN/RAFTER CONNECTION



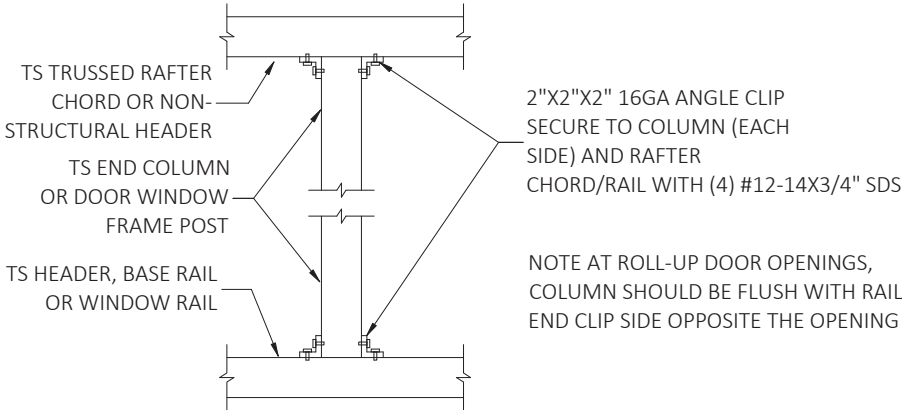
DETAIL 5
END POST/BASE RAIL CONNECTION



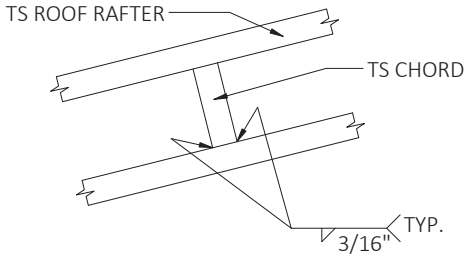
DETAIL 6A
HEADER TO COLUMN CONNECTION



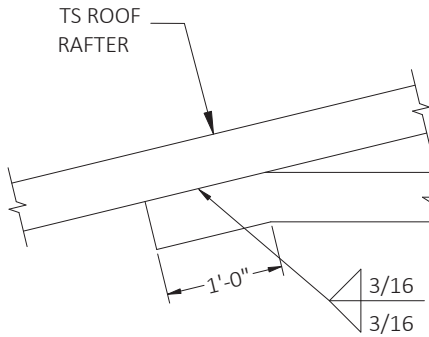
DETAIL 6B
DOUBLE HEADER TO COLUMN CONNECTION



DETAIL 7
POST TO HEADER OR WINDOW RAIL CONNECTION



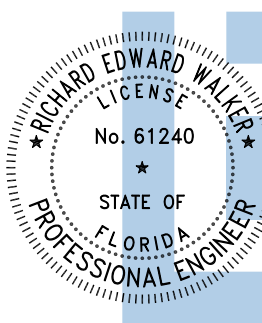
DETAIL 8
CHORD/RAFTER CONNECTION



DETAIL 9
COLLAR TIE CONNECTION

CONNECTION DETAILS

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.



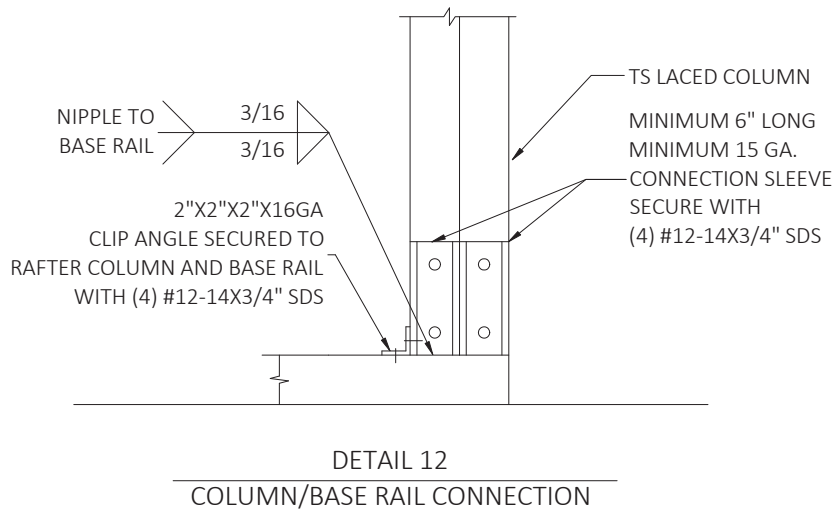
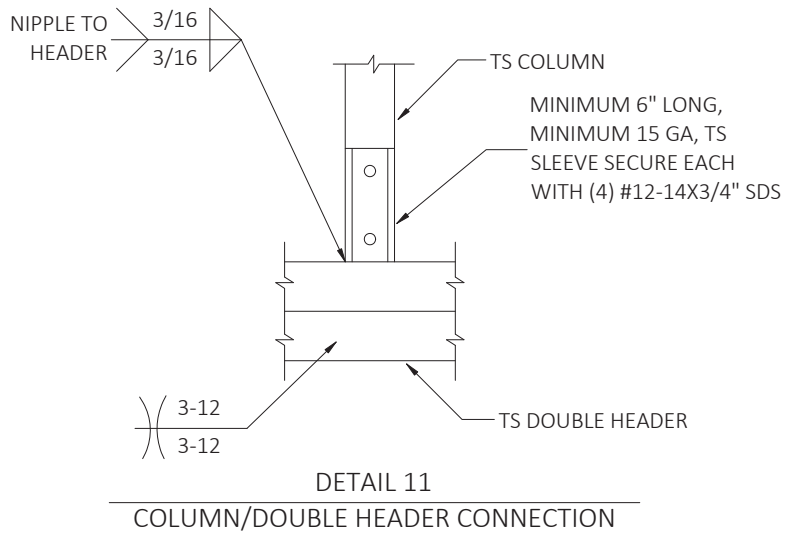
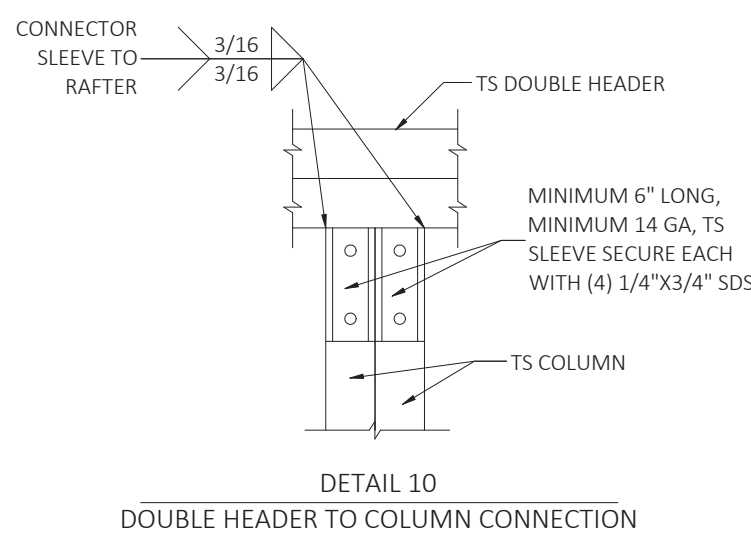
Digitally signed
by Richard E Walker
Date:
2026.07.31
14:15:44-04'00'

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

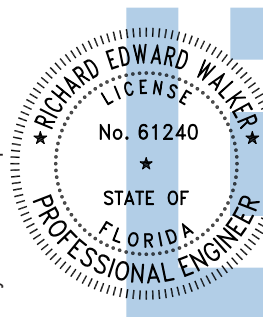
CONTRACTOR:
JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025
PROJECT ADDRESS:
WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE:	07/30/2026	SHEET: 6 OF 11
REVISION 1:	07/31/2026	
REVISION 2:	DATE	
DRAWN BY:	JS	
SCALE:	NTS	

CONNECTION DETAILS



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:
2026.07.31
14:15:46-04'00'

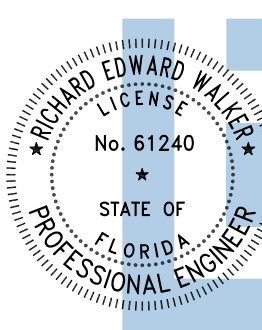


FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com

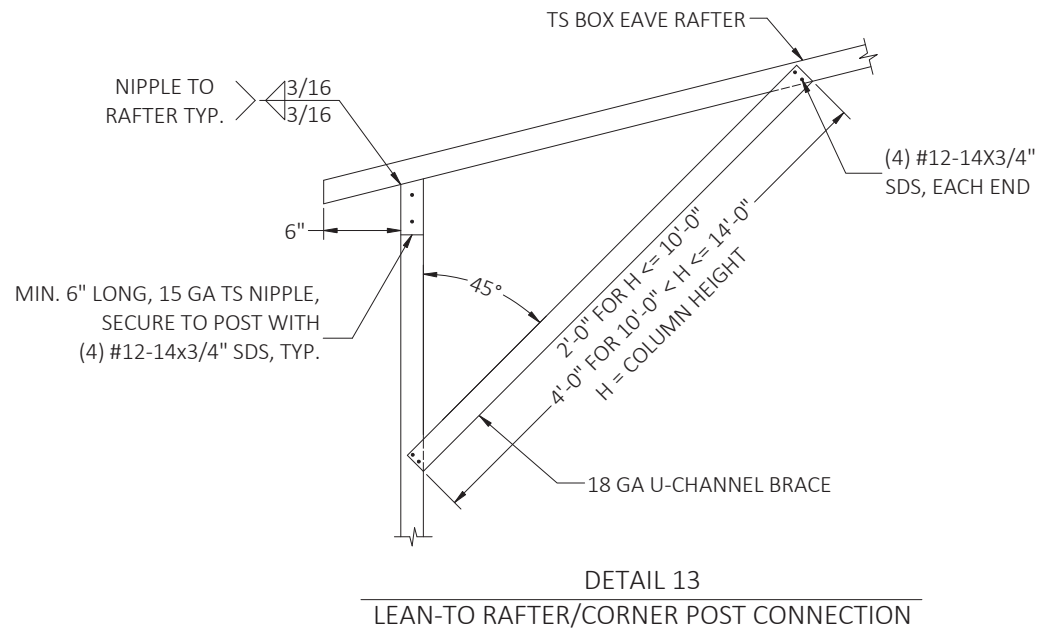
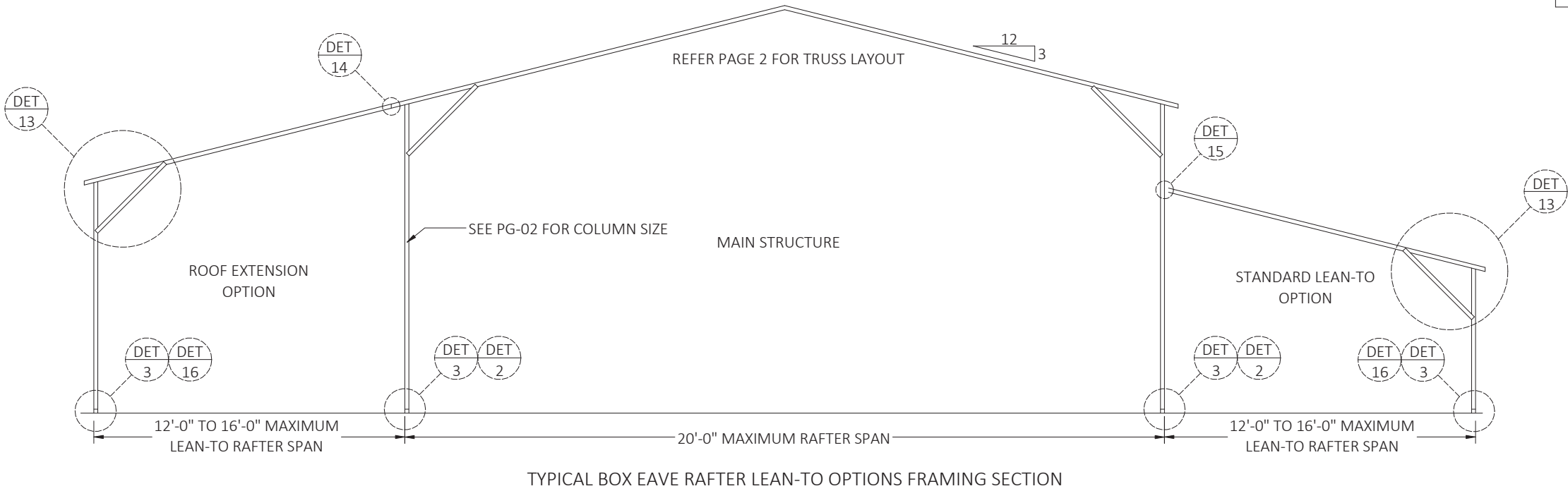
PROJECT NO. 2519749-R CA CERT. #30782

CONTRACTOR: JOSE'S METAL WORKS 6100 S US HWY 441 LAKE CITY FL 32025		PROJECT ADDRESS: WHITING PID# 02-6S-16-03766-153 LOT 53, FORT WHITE, FLORIDA, 32038	
DESIGN DATE:		07/30/2026	
REVISION 1:		07/31/2026	
REVISION 2:	DATE	SHEET: 7 OF 11	
DRAWN BY:	JS		
SCALE:	NTS		

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:
2026.07.31
14:15:47-04'00'





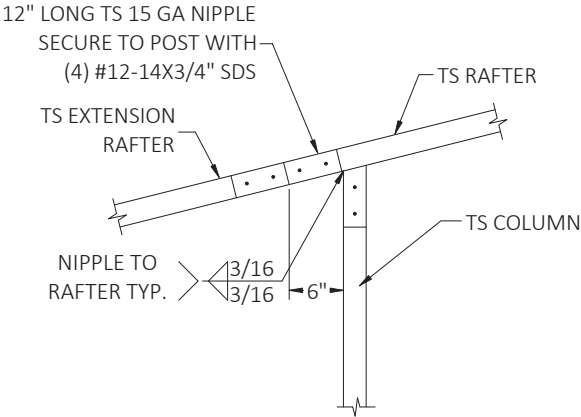
FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com

CA CERT. #30782

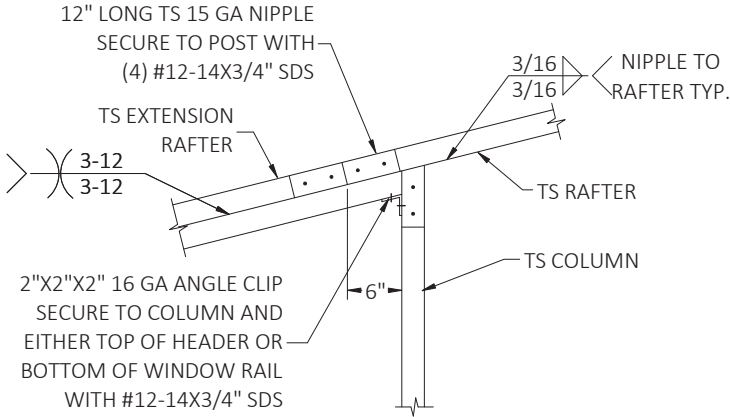
PROJECT NO. 2519749-R

CONTRACTOR: JOSE'S METAL WORKS 6100 S US HWY 441 LAKE CITY FL 32025	PROJECT ADDRESS: WHITING PID# 02-6S-16-03766-153 LOT 53, FORT WHITE, FLORIDA, 32038	DESIGN DATE:	07/30/2026
		REVISION 1:	07/31/2026
		REVISION 2:	DATE
		DRAWN BY:	JS
SCALE:	NTS	SHEET: 8 OF 11	

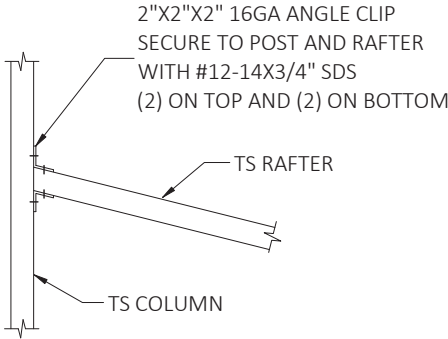
CONNECTION DETAILS



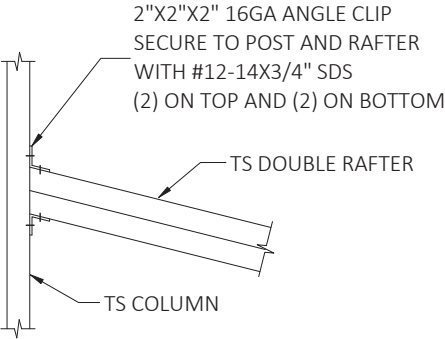
DETAIL 14A
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"



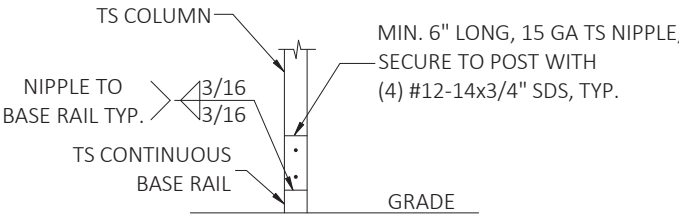
DETAIL 14B
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"



DETAIL 15A
LEAN TO RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"

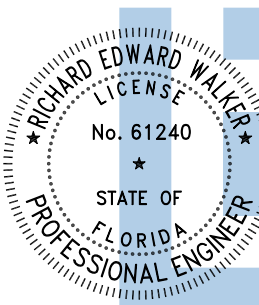


DETAIL 15B
LEAN TO RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"



DETAIL 16
LEAN-TO POST CONNECTION

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:
2026.07.31
14:15:50-04'00'

FLORIDA ENGINEERING LLC

4161 TAMIAM I TRAIL, UNIT 101

PORT CHARLOTTE, FLORIDA 33952

(941) 391-5980

FLeng.com

Orders@FLeng.com

CA CERT. #30782



PROJECT NO. 2519749-R

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

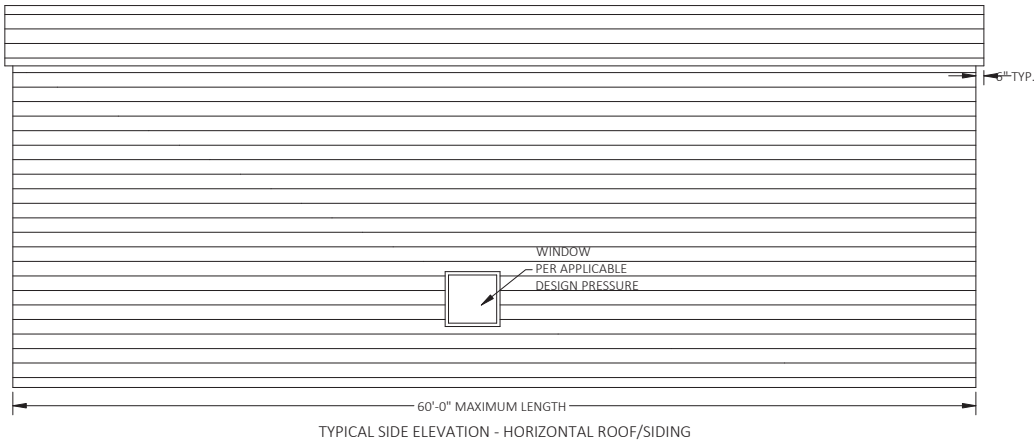
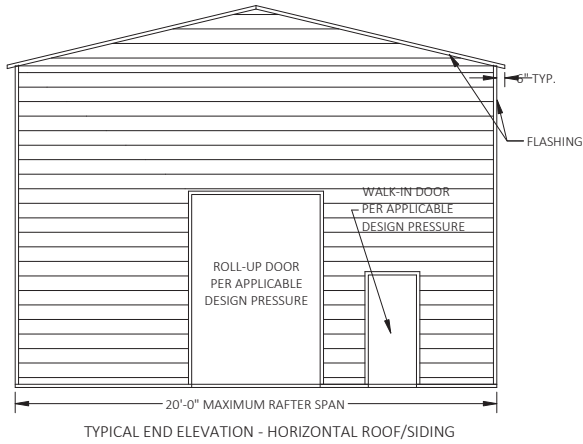
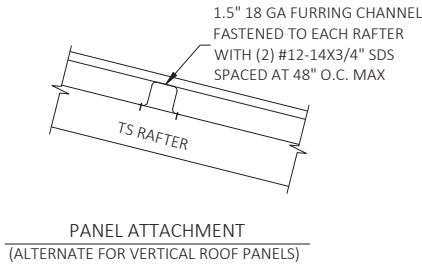
REVISION 2: DATE

SHEET:

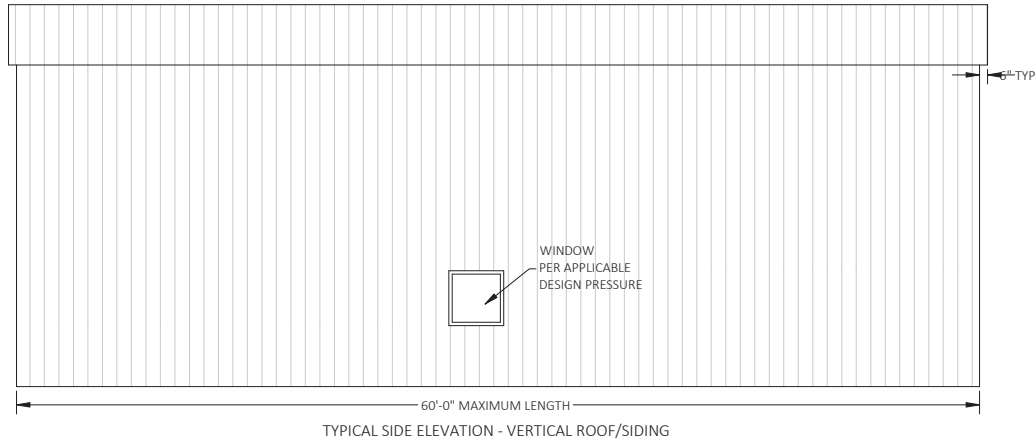
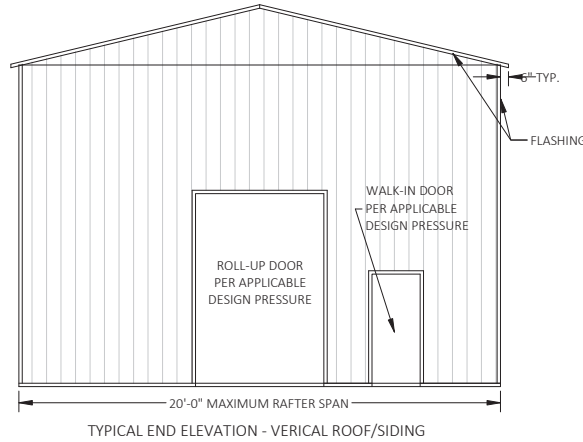
DRAWN BY: JS

SCALE: NTS

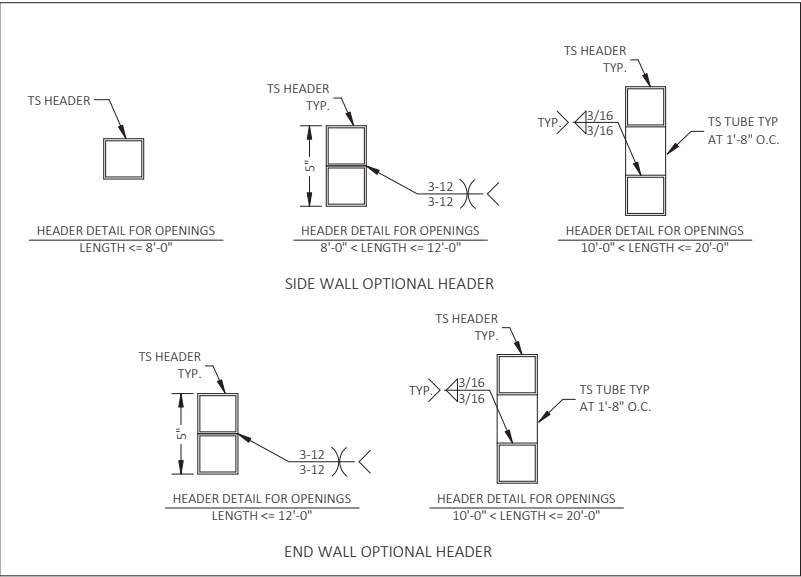
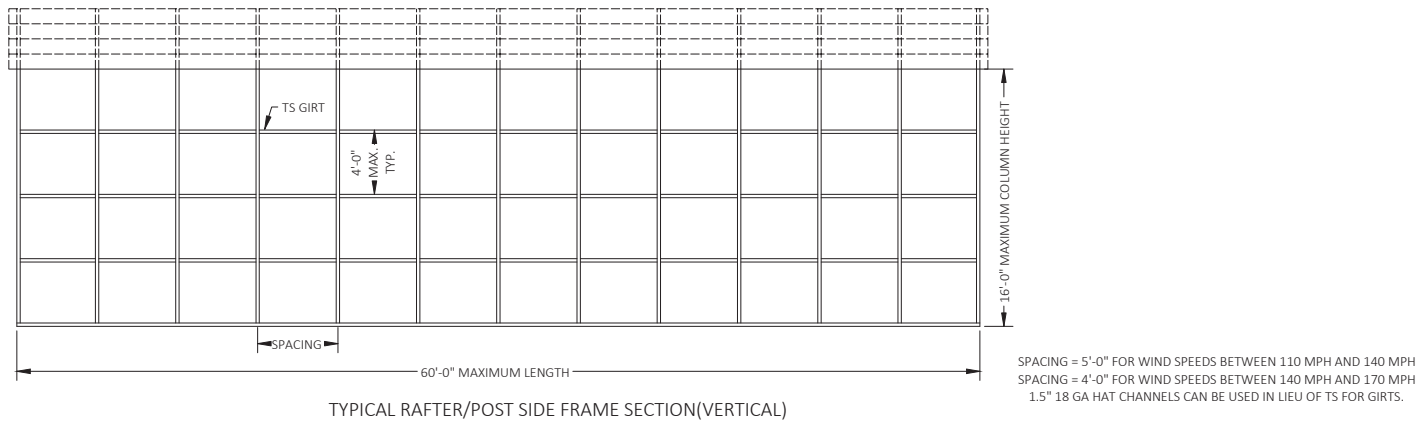
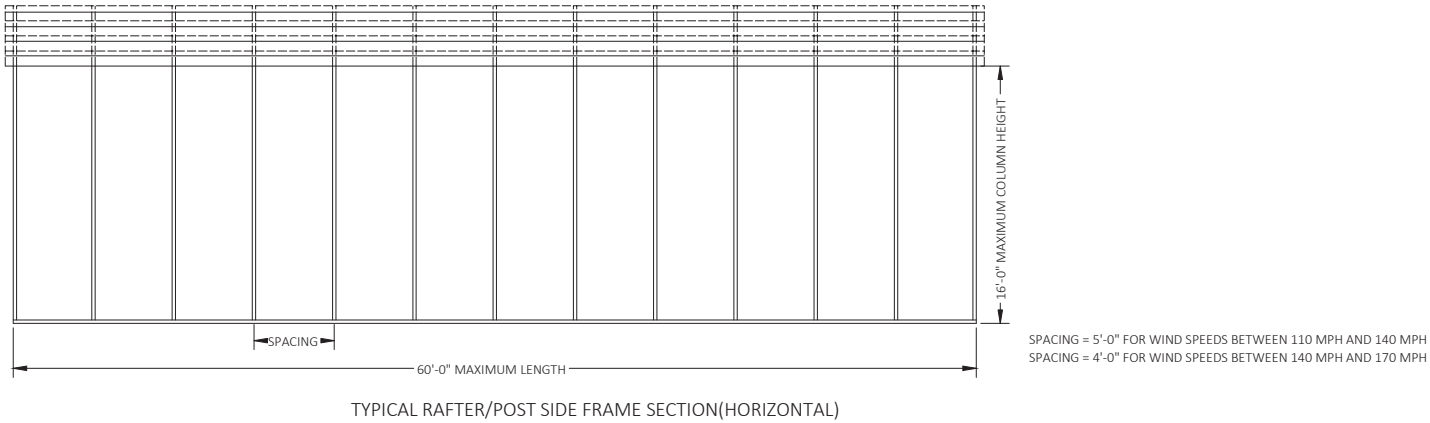
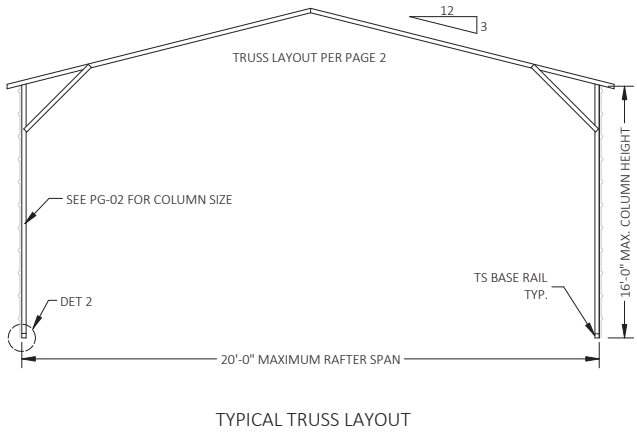
9 OF 11



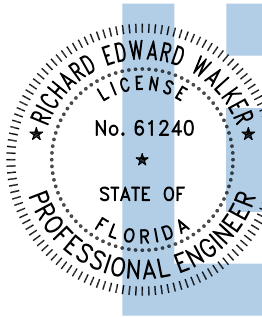
BOX EAVE FRAME RAFTER ENCLOSED BUILDING



BOX EAVE FRAME RAFTER ENCLOSED BUILDING



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:
2026.07.31
14:15:52-04'00'

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. 2519749-R

CONTRACTOR:

JOSE'S METAL WORKS
6100 S US HWY 441
LAKE CITY FL 32025

PROJECT ADDRESS:

WHITING
PID# 02-6S-16-03766-153 LOT 53,
FORT WHITE, FLORIDA, 32038

DESIGN DATE: 07/30/2026

REVISION 1: 07/31/2026

REVISION 2: DATE

SHEET:

DRAWN BY: JS

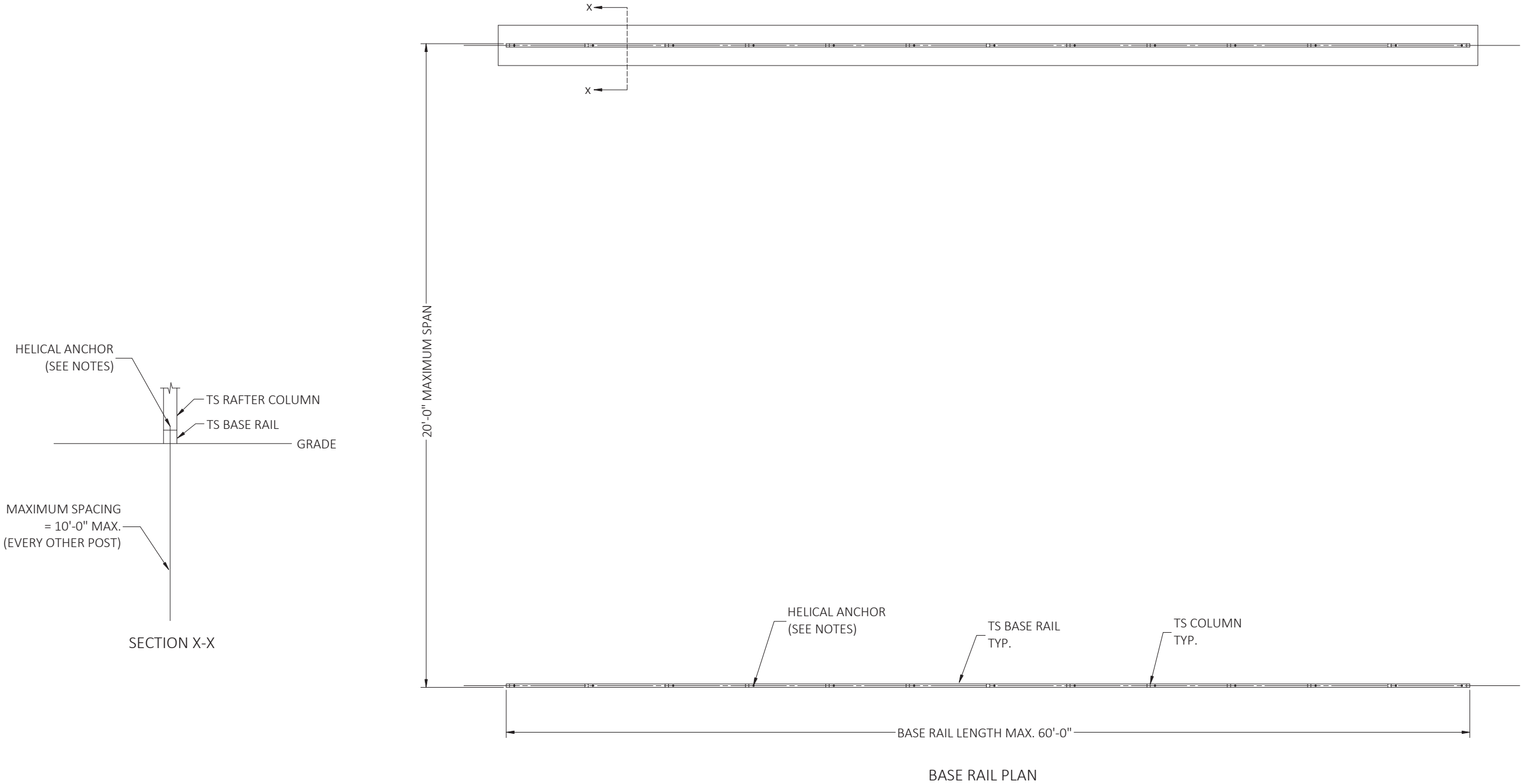
SCALE: NTS

10 OF 11

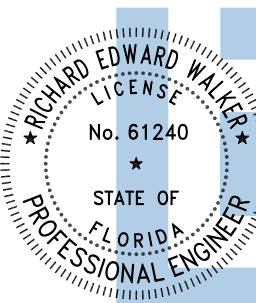
HELIX ANCHOR NOTES

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, USE MINIMUM (2) 4” HELICES WITH MINIMUM 30” EMBEDMENT.
2. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 6” HELICES WITH MINIMUM 50” EMBEDMENT.
3. FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8” HELICES WITH MINIMUM 60” EMBEDMENT.

OPTIONAL HELICAL ANCHORING DETAIL



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:
2026.07.31
14:15:54-04'00'



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. 2519749-R

CONTRACTOR: JOSE'S METAL WORKS 6100 S US HWY 441 LAKE CITY FL 32025	PROJECT ADDRESS: WHITING PID# 02-6S-16-03766-153 LOT 53, FORT WHITE, FLORIDA, 32038	DESIGN DATE:	07/30/2026
		REVISION 1:	07/31/2026
		REVISION 2:	DATE
		DRAWN BY:	JS
SCALE:	NTS	SHEET: 11 OF 11	