

APPLICABLE CODES AND STANDARDS

1. 2020 FLORIDA BUILDING CODE (17TH EDITION)
2. 2018 INTERNATIONAL BUILDING CODE
3. ASCE 7-16: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
5. AISC 338-16: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
7. AWS D1.1: STRUCTURAL WELDING

DESIGN LOADS

1. DEAD LOAD = 15 PSF
2. LIVE LOAD = 20 PSF
3. WIND LOAD (SEE TABLE 1)
- A. RISK CATEGORY = II
- B. WIND EXPOSURE CATEGORY = C
- C. ULTIMATE WIND SPEED = 120 MPH
- NOMINAL WIND SPEED = 93 MPH

INSTALLATION NOTES AND SPECIFICATIONS

1. END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING U.N.O.
2. 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.
3. AVERAGE FASTENER SPACING ON CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" AND END = 6" MAX.
4. FASTENERS CONSIST OF #12-1.4X3/4" 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 18" (4:12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
5. ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
6. 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.
7. RAFTER SPACING IS 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH AND 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH.

DRAWING INDEX

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11	OPTIONAL CONCRETE STRIP FOOTING
12	OPTIONAL HELICAL ANCHORING DETAIL

ENCLOSED METAL BUILDING DESIGN MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT BOX EAVE FRAME AND BOW EAVE FRAME

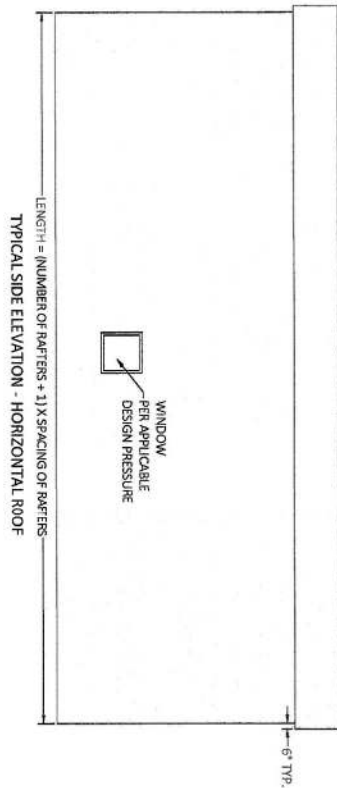
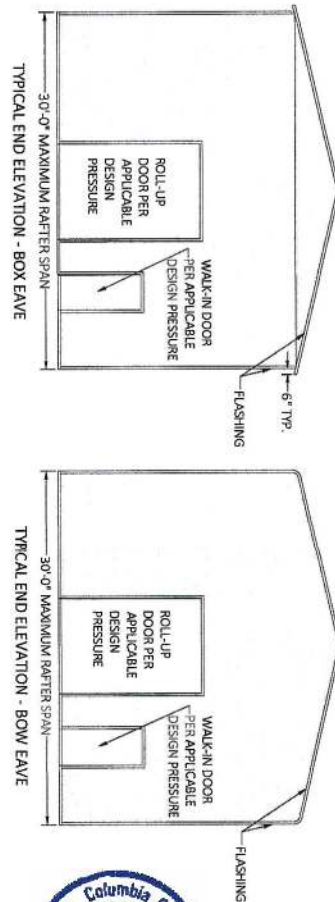


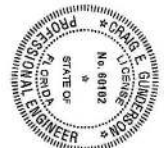
TABLE 1

MEMBER	PRODUCT APPROVAL NUMBER	WIND DESIGN PRESSURES
ROOF PANELS	FL39466	+12.1 PSF / -40.2 PSF
WALL PANELS	FL39594	+16.8 PSF / -21.3 PSF
GARAGE DOOR	CTP	+16.8 PSF / -21.3 PSF
WALK-IN DOOR	CTP	+16.8 PSF / -21.3 PSF

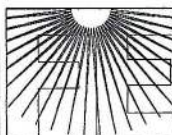
DESIGN WIND PRESSURES	120 MPH
ZONE 1	+12.1 PSF / -21.2 PSF
ZONE 2	+12.1 PSF / -34.5 PSF
ZONE 3	+12.1 PSF / -40.2 PSF
ZONE 4	+16.8 PSF / -18.4 PSF
ZONE 5	+16.8 PSF / -21.3 PSF

CTP = CONTRACTOR TO PROVIDE 2020 FBC APPROVED PRODUCTS THAT MEET OR EXCEED DESIGN PRESSURES AS TABULATED.

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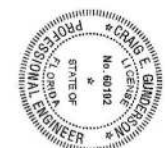
CONTRACTOR:
**ELITE METAL
MANUFACTURING**

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LIVE OAK FL 32060

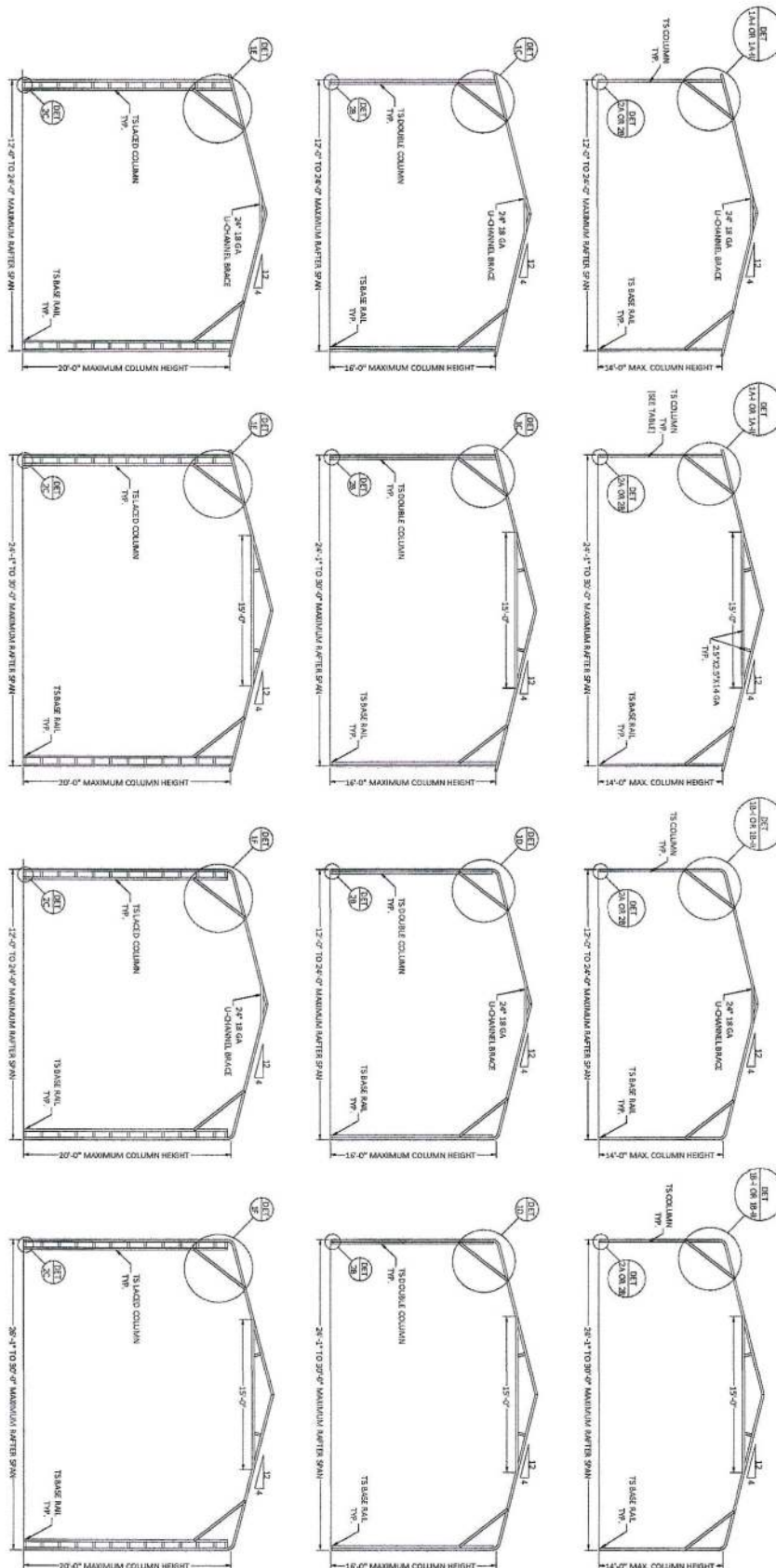
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FOR 14'-0" MAX. RISE HEIGHT	
BUILDING LENGTH	12'-0" TO 24'-0" MAXIMUM RASTER SPAN
MAX. RISE HEIGHT	14'-0" MAX. COLUMN HEIGHT
MAX. RISE HEIGHT	14'-0" MAX. COLUMN HEIGHT
MAX. RISE HEIGHT	14'-0" MAX. COLUMN HEIGHT

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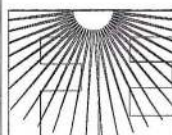


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BOX EAVE FRAME

BOW EAVE FRAME



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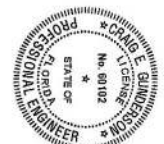
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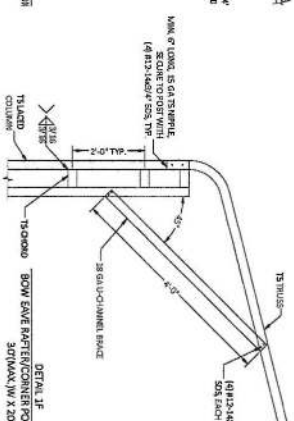
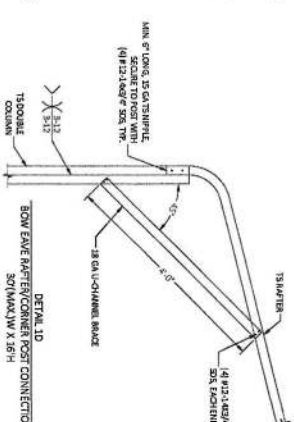
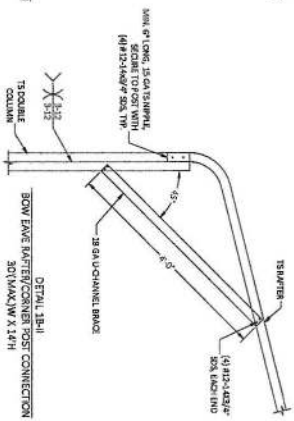
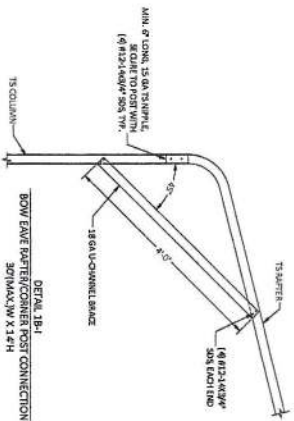
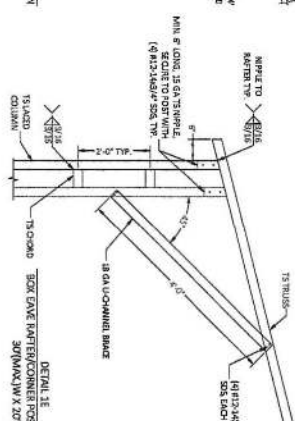
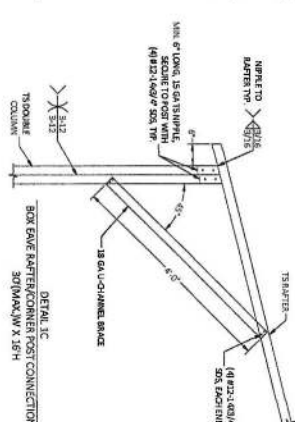
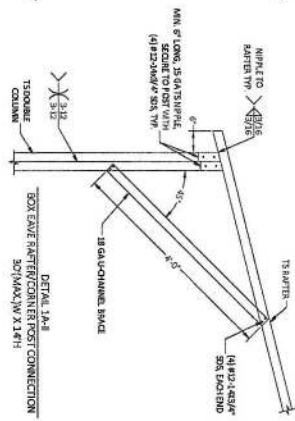
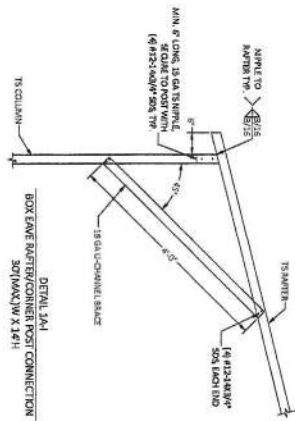
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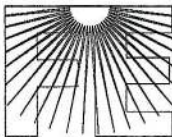
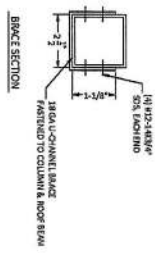
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DETAIL 2A
POST/RAISE WALL CONNECTION

DETAIL 2B
POST/RAISE WALL CONNECTION

DETAIL 2C
POST/RAISE WALL CONNECTION



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GENERAL NOTES:
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

MINIMUM 28 DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI

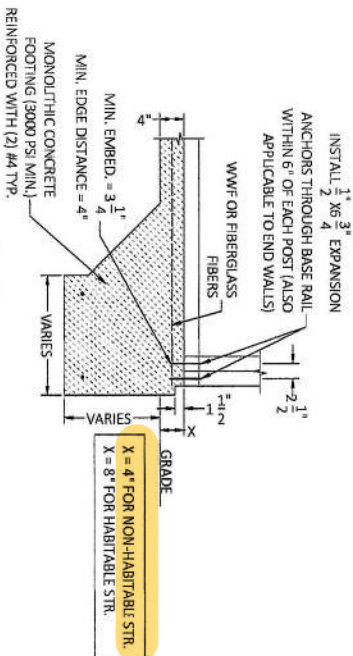
REINFORCING STEEL:

1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMANENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. REINFORCEMENT IS BENT COLD.
5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALCHE, 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 STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

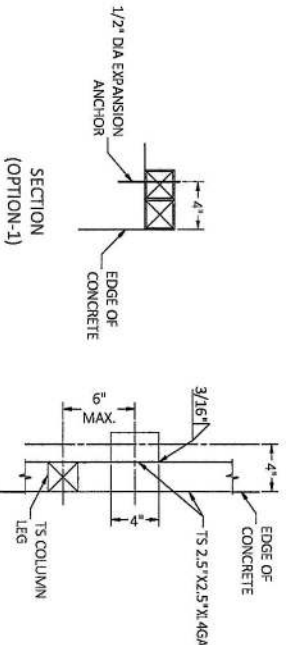
MONOLITHIC FOOTER SIZE			
110 C - 140 C	8"x8" - (2) #4		
ABOVE 140 C	12"x12" - (2) #4		



DETAIL 3A

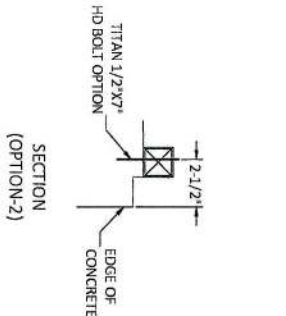
CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

BASE RAIL ANCHORAGE OPTIONS



TOP VIEW (OPTION-1)

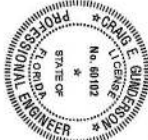
TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



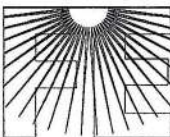
SECTION (OPTION-2)

BASE RAIL ANCHORAGE OPTION

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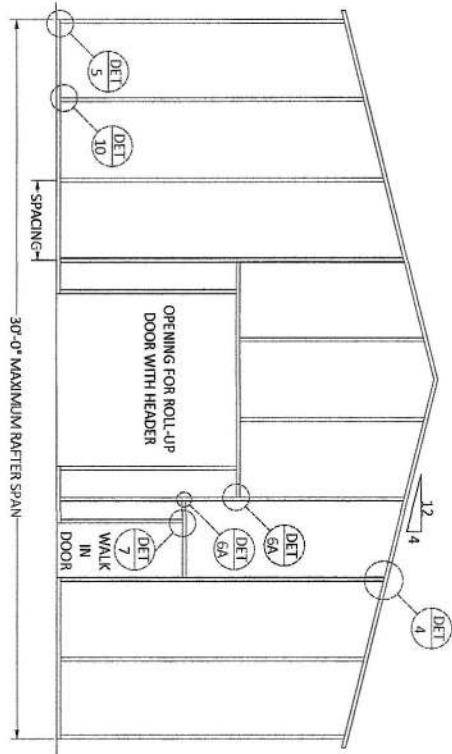
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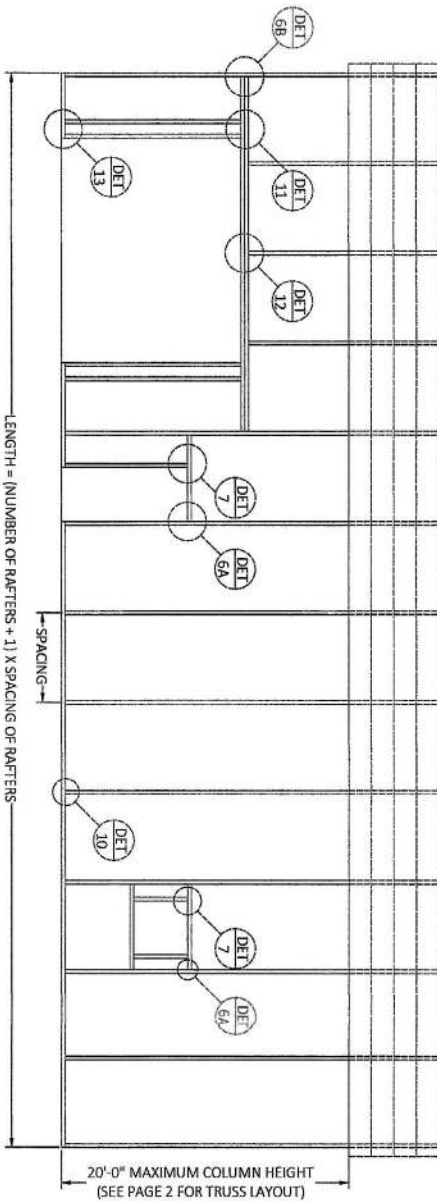
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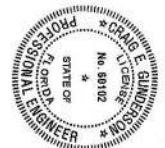


TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

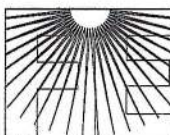


TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING SECTION

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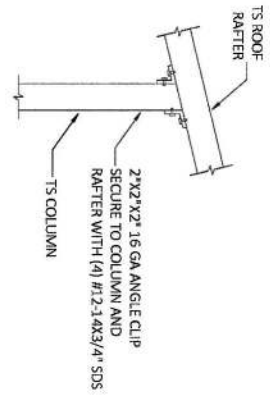
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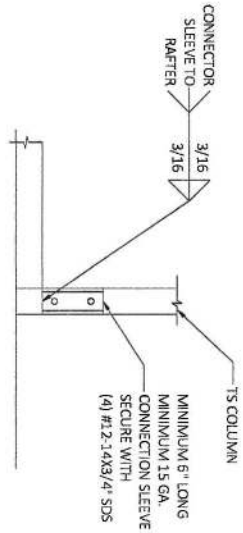
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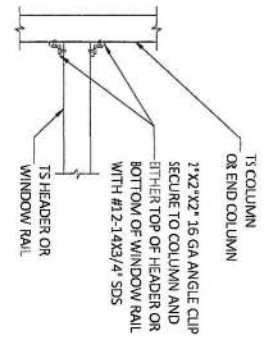
CONNECTION DETAILS



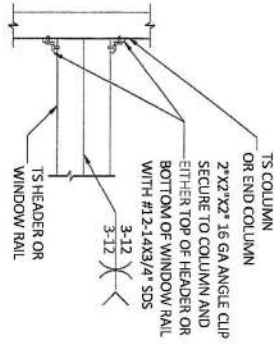
DETAIL 4
END COLUMN/RAFTER CONNECTION



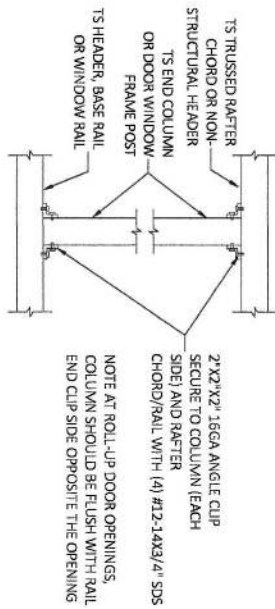
DETAIL 5
END POST/BASE RAIL CONNECTION



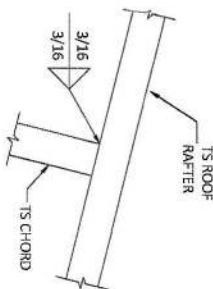
DETAIL 6A
HEADER TO COLUMN CONNECTION



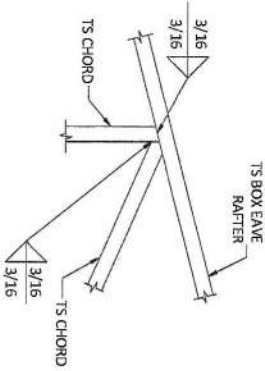
DETAIL 6B
DOUBLE HEADER TO COLUMN CONNECTION



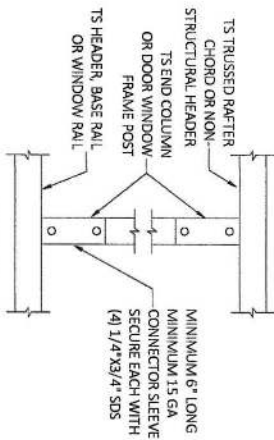
DETAIL 7
POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION



DETAIL 8
RAFTER TO CHORD CONNECTION

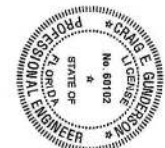


DETAIL 9
TRUSS POST AND CHORD TO RAFTER CONNECTION



DETAIL 10
POST TO HEADER, BASE RAIL CONNECTION

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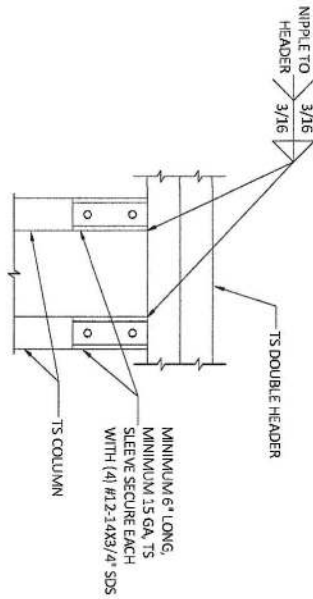
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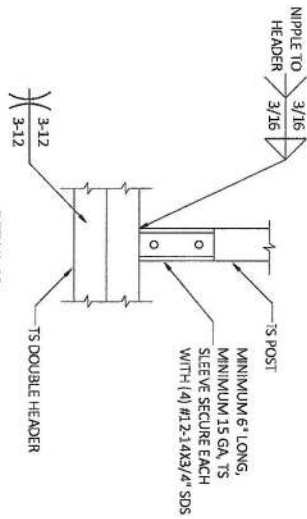
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CONNECTION DETAILS



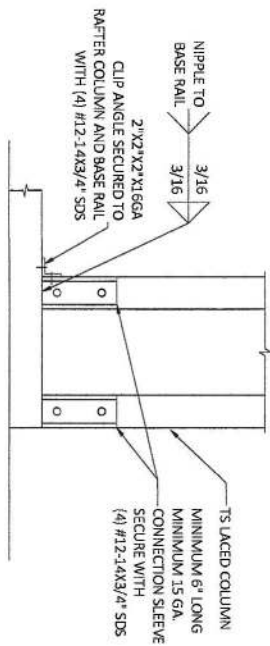
DETAIL 11

DOUBLE HEADER TO POST CONNECTION



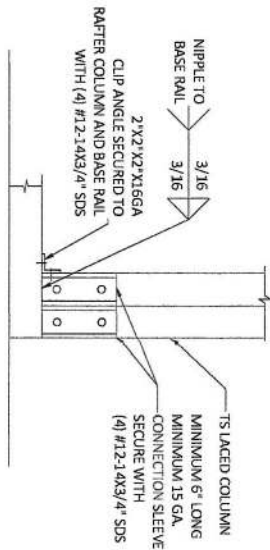
DETAIL 12

POST/DOUBLE HEADER CONNECTION



DETAIL 13A

POST/BASE RAIL CONNECTION



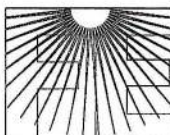
DETAIL 13B

POST/BASE RAIL CONNECTION

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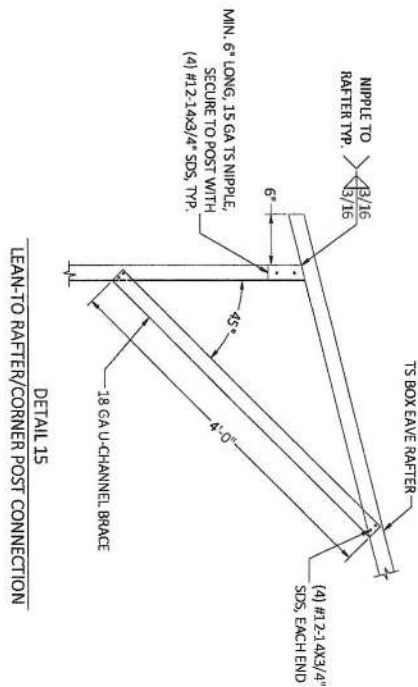
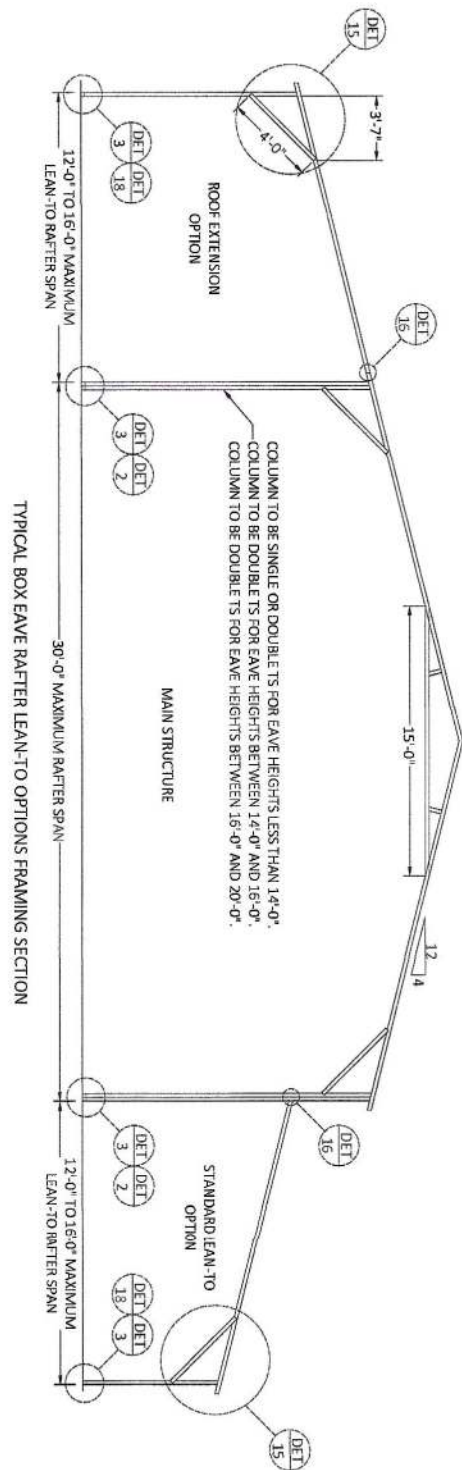
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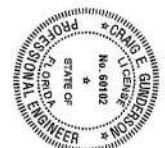
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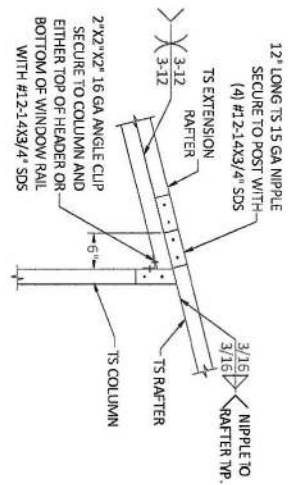
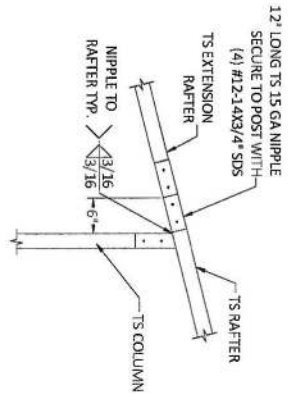
CA CERT. #30782

CONTRACTOR:
**ELITE METAL
MANUFACTURING**

PROJECT ADDRESS:
12'-30" WIDE PLANS
10121 88TH TRACE,
LIVE OAK FL 32060

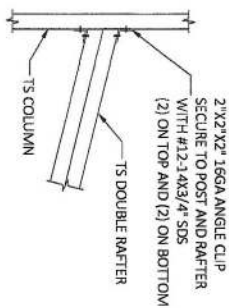
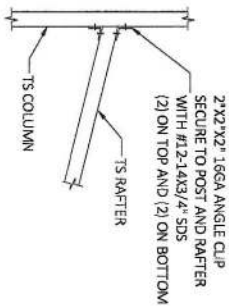
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PAGE:	8

CONNECTION DETAILS



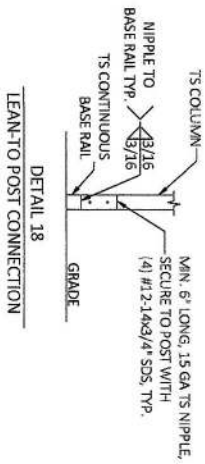
DETAIL 16A
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"

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



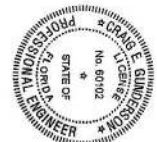
DETAIL 17A
LEAN TO RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"

DETAIL 17B
LEAN TO RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"

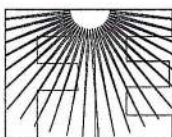


DETAIL 18
LEAN-TO POST CONNECTION

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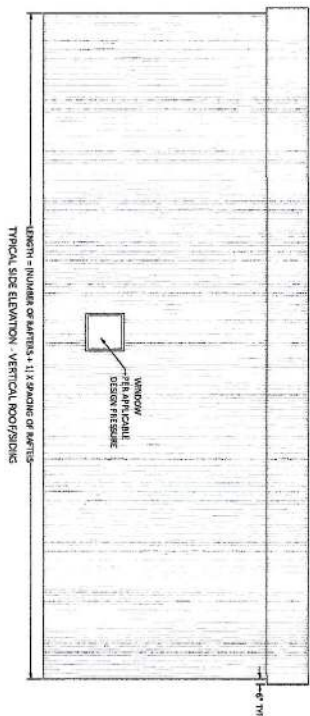
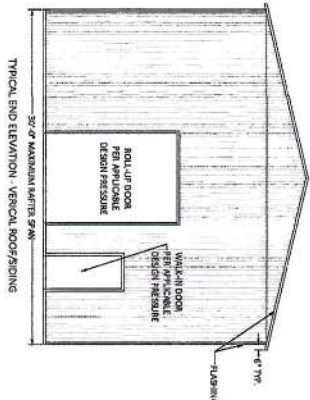
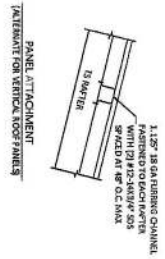
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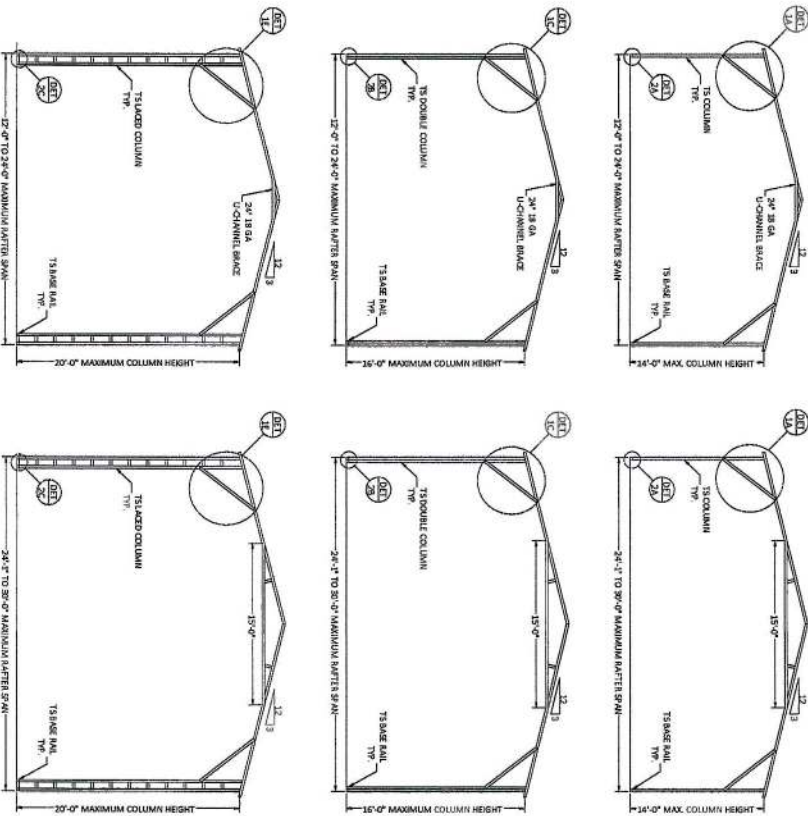
CONTRACTOR:
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PROJECT ADDRESS:
12'-30" WIDE PLANS
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LIVE OAK FL 32060

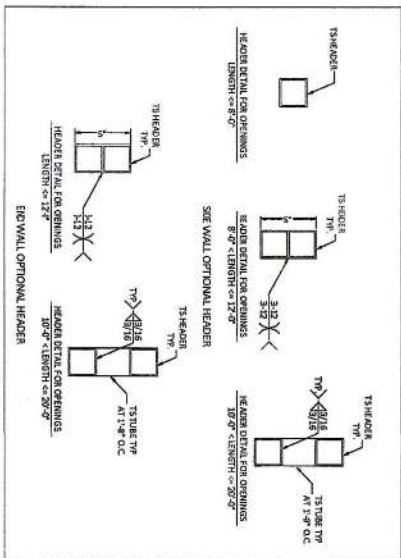
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REVISION 1:	DATE
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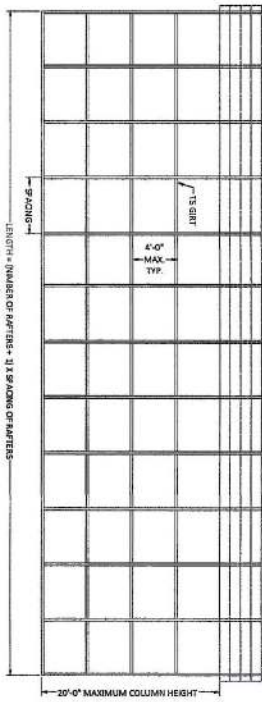
BOX EAVE FRAME ENCLOSED BUILDING



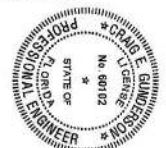
BOX EAVE FRAME



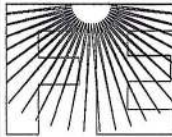
TYPICAL RAFTERS/POST SIDE FRAME SECTION



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PROJECT NO. 2217228

CA CERT. #30782

CONTRACTOR: ELITE METAL MANUFACTURING	
PROJECT ADDRESS: 12'-30" WIDE PLANS 10121 88TH TRACE, LIVE OAK FL 32060	
DESIGN DATE: 08/24/2022	DATE
REVISION 2: DATE	PAGE:
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SCALE: NTS	

GENERAL NOTES:

CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

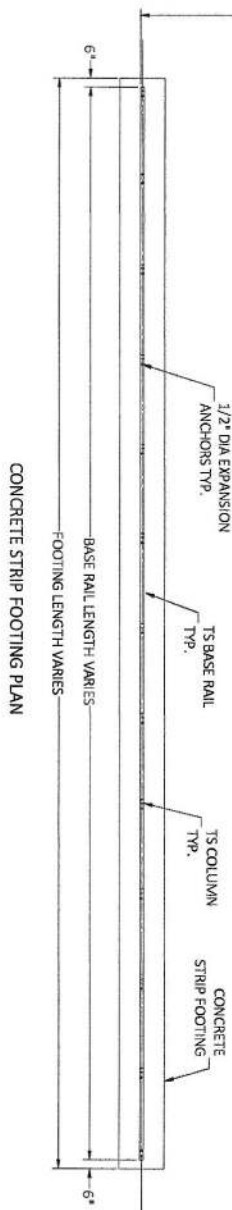
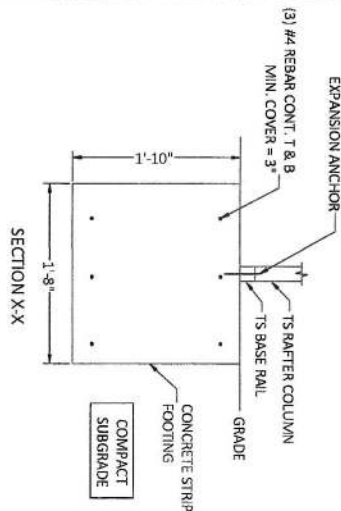
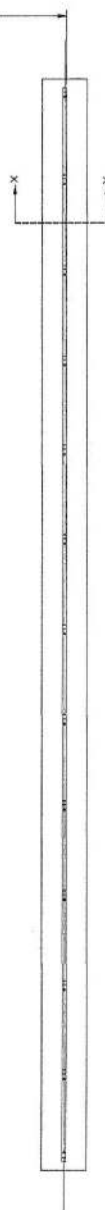
CONCRETE

MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI

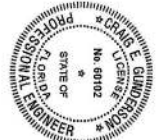
REINFORCING STEEL

1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMANENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. REINFORCEMENT IS BENT COLD.
5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

OPTIONAL CONCRETE STRIP FOOTING



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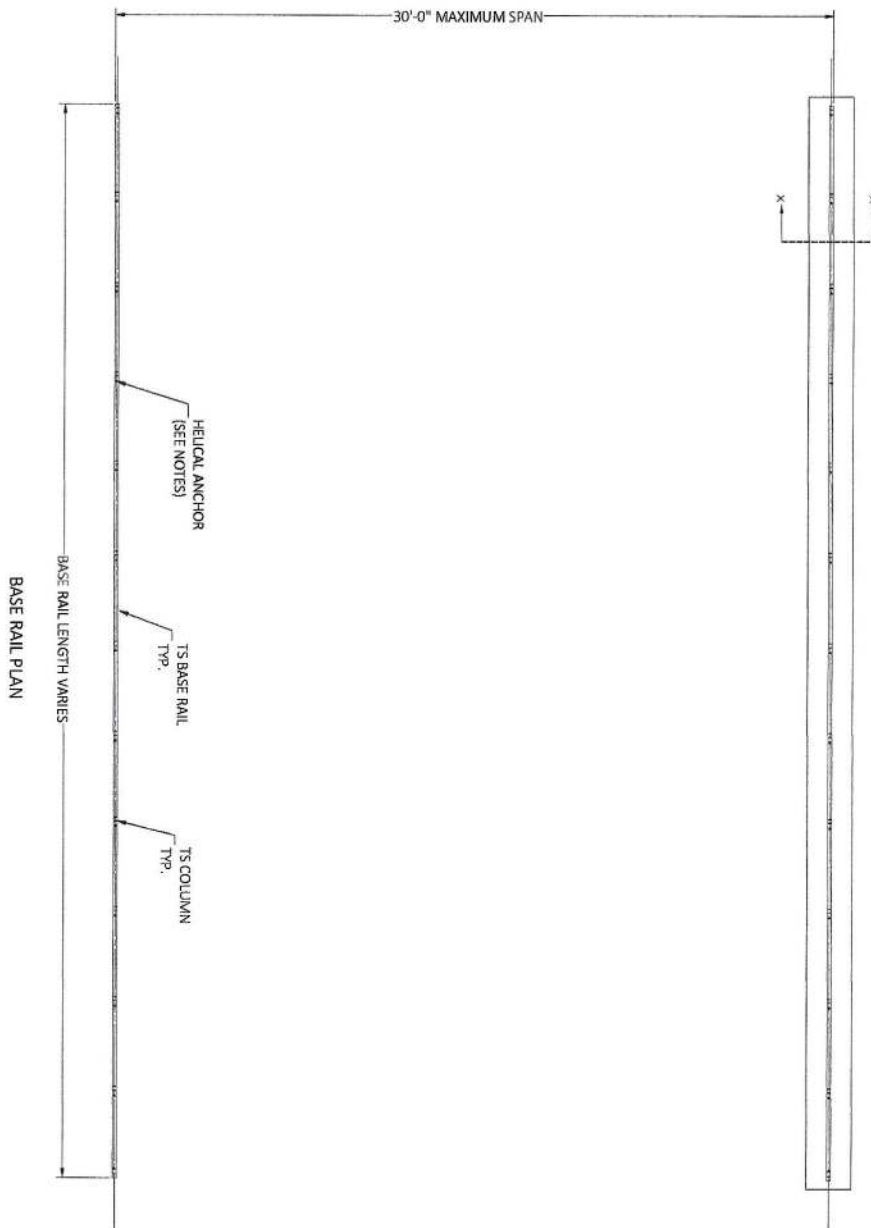
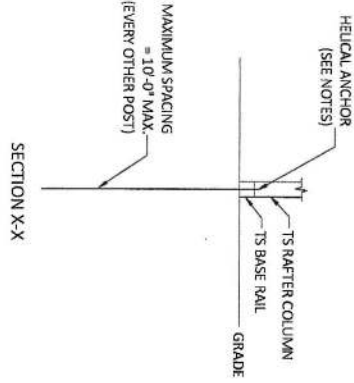
PROJECT ADDRESS:
12'-30" WIDE PLANS
10121 88TH TRACE,
LIVE OAK FL 32060

DESIGN DATE:	06/24/2022
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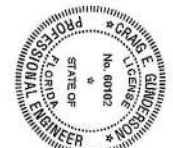
HELIX ANCHOR NOTES

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALCIE, 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



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