APPLICABLE CODES AND STANDARDS

- 2023 FLORIDA BUILDING CODE (8TH EDITION)
- 2021 INTERNATIONAL BUILDING CODE
- ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- AWS D1.1: STRUCTURAL WELDING

INSTALLATION NOTES AND SPECIFICATIONS

- ROOF PITCH SHALL NOT BE GREATER THAN 12H:4V
- END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE THE SAME U.N.O.
- 3. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 2.5" x 2.5" x 14 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.
- 18 GA HAT CHANNELS SHALL BE SPACED 48" O.C. UNLESS DESIGN PRESSURES FROM TABLE 3 EXCEED THE MAX ALLOWABLE PRESSURES IN TABLE 2. THEN THE SPACING SHALL BE 24" O.C. IN THE ZONES THAT EXCEED THE MAX PRESSURES.
- 4. FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE: 4.1. INTERIOR = 9"
- END = 6".
- 5. FASTENERS SHALL BE #12-14 x 3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. APPLICABLE ONLY FOR:
- MEAN ROOF HEIGHT OF 20'-0" OR LESS
- ROOF SLOPES OF 18° (4:12 PITCH) OR LESS.
- SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 6. 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 REBAR 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.

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

		ULT WIND	NOMINAL WIND	MAXIMUM DAFTED (DOW)	FASTENER SPACING O.C FOR RAFTERS/PURLINS, & POSTS (INCHES)			
RISK CATEGORY	WIND EXPOSURE CATEGORY	SPEED (MPH)	SPEED (MPH)	RAFTER/BOW AND END POST SPACING (FEET)	INTERIOR BOWS/RAFTERS	END BOWS/RAFTERS		
I, II, III, or IV B, C, or D 115 - 150 89 - 116		89 - 116	5.0	6	6			
		151 - 180	117 - 139	4.0	6	6		

NO JES:

1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GAUGE STEEL TUBE BOW FRAMES.

2. FASTENTERS CONSIST OF 1/4"-14X1" SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.

3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14"(3:12 PITCH).

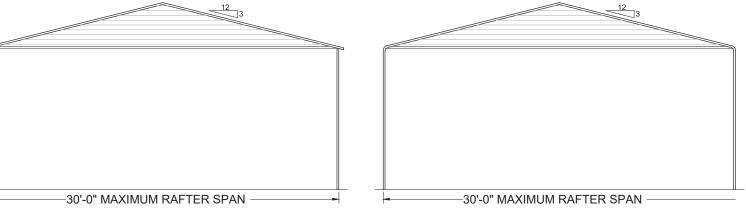
- SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.

 5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

DESIGN LOADS

- DEAD LOAD = 15 PSF
- LIVE LOAD = 20 PSF
- 3. WIND LOAD (SEE TABLE 1)

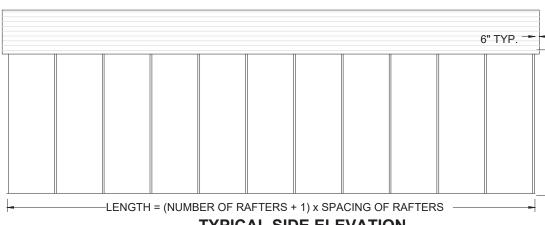
OPEN METAL CARPORT DESIGN 28FT WIDE X 40FT LONG X 12FT EAVE



LEAN-TO INDEX BUILDING SIDE | LEAN-TO SIZE (FT) LEFT **RIGHT** FRONT RFAR

TYPICAL ELEVATION - BOX EAVE SCALE: NTS

TYPICAL ELEVATION - BOW EAVE SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

TABLE 1

MEMBER	PRODUCT	MAX WIND DESIGN				
	APPROVAL NUMBER	PRESSURES				
ROOF PANELS	FL39466	+41.6 PSF / -31.2 PSF				
WALL PANELS	FL39594	+55.4 PSF / -41.6 PSF				
GARAGE DOOR	CTP	CTP				
WALK-IN DOOR	CTP	CTP				

CTP = CONTRACTOR TO PROVIDE 2023 FBC APPROVED PRODUCTS THAT MEET OR EXCEED DESIGN PRESSURES AS TABULATED.

DRAWING INDEX

PAGE NO.	DESCRIPTION
S-1	NOTES AND SPECIFICATIONS
S-2	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING
S-3	CONNECTION DETAILS (1 OF 4)
S-4	BASE RAIL AND ANCHORAGE DETAILS
S-5	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
S-6	CONNECTION DETAILS (2 OF 4)
S-7	CONNECTION DETAILS (3 OF 4)
S-8	BOX EAVE RAFTER LEAN-TO OPTIONS
S-9	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS
S-10	CONNECTION DETAILS (4 OF 4)
S-11	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION
S-12	OPTIONAL CONCRETE STRIP FOOTING
S-13	OPTIONAL HELICAL ANCHORING DETAIL

COMPONENTS AND CLADDING DESIGN PRESSURES MEAN ROOF HT 25 FT, EXPOSURE C (PSI													(PSF)	
Zone	120		130		140		150		160		170		180	
Zone	POS	NEG	POS	NEG										
1	9.7	-20.7	11.5	-24.3	13.2	-28.2	15.3	-32.4	17.4	-36.9	19.6	-41.6	22.0	-46.6
2	9.7	-27.9	11.5	-32.8	13.2	-38.1	15.3	-43.7	17.4	-49.7	19.6	-56.2	22.0	-62.9
3	11.1	-44.8	13.0	-52.7	15.0	-61.0	17.1	-70.1	19.6	-79.8	22.1	-90.0	24.7	-100.8
4	17.8	-19.6	20.9	-23.1	24.3	-26.7	27.9	-30.6	31.7	-34.8	35.8	-39.4	40.1	-44.1
5	18.8	-23.8	22.0	-27.8	25.5	-32.3	29.3	-37.0	33.3	-42.1	37.7	-47.5	42.3	-53.3

TABLE 3

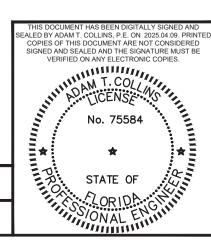
REVISIONS 2025.04.0 ORAWN SM DESIGNED DMC CHECKED ATC 22047 CA# 31728 ~ P: 386 320 7400 ~ WWW COLLINSENG COM

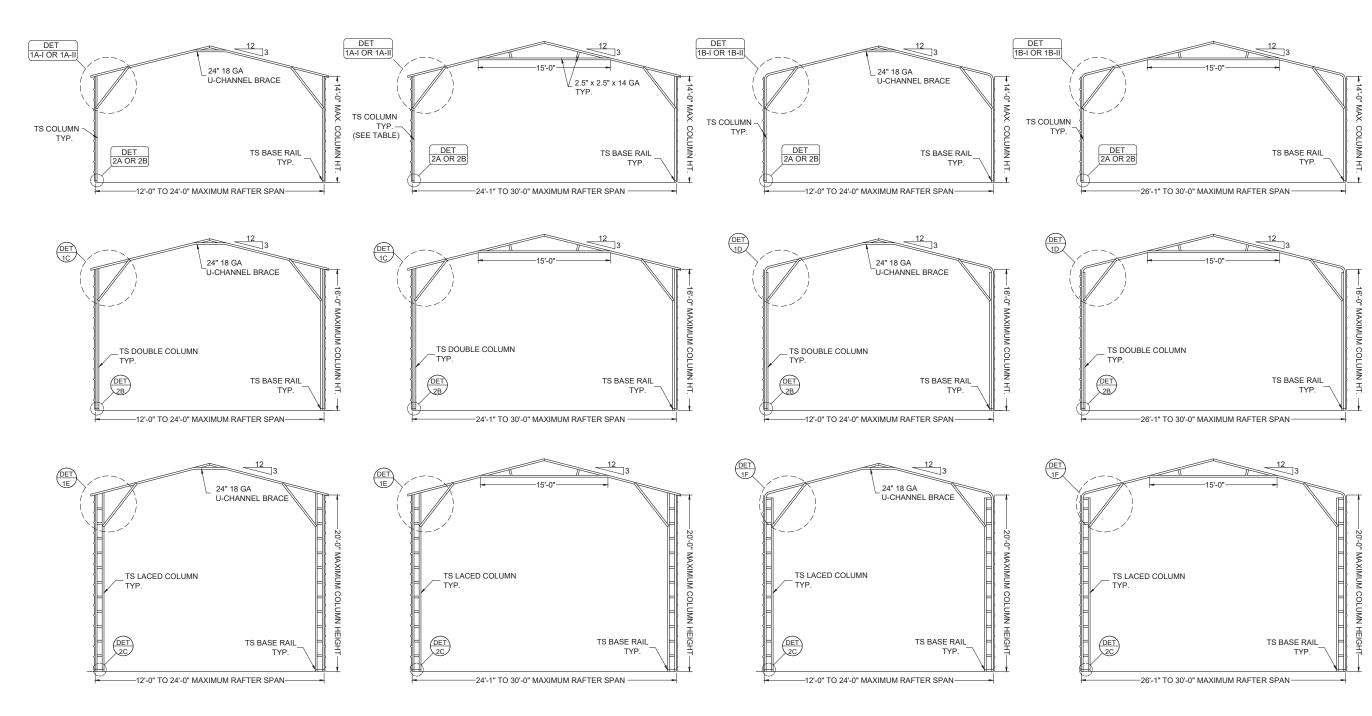
ELITE METAL MANUFACTURING 10121 88TH TRACE

NOTES AND SPECIFICATIONS

Terry Pemberton 141 SW Dante Terr Lake City, FL 32024

S-1 SCALE AS-SHOWN



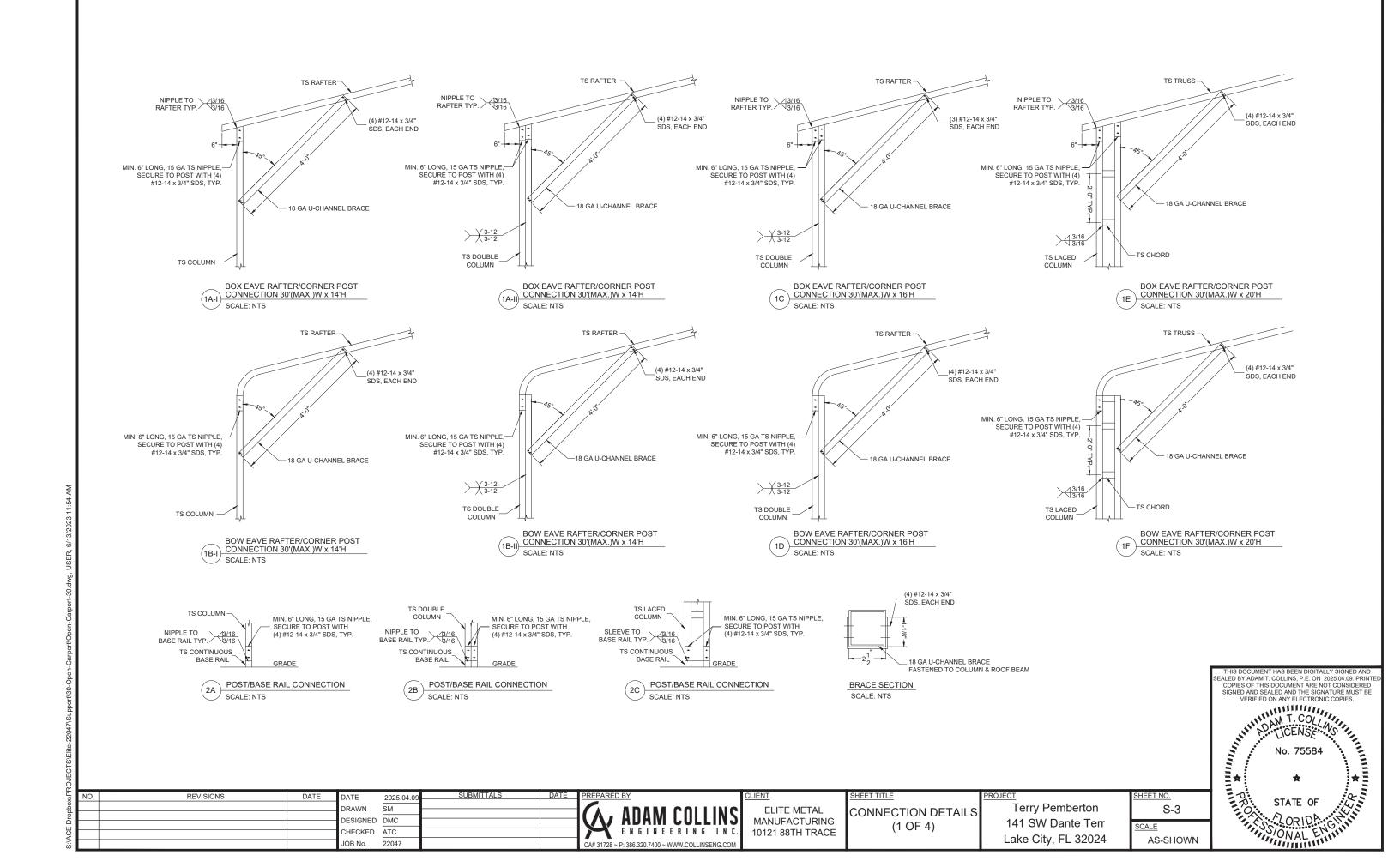


BOX EAVE FRAME

BOW EAVE FRAME

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SCA	ALE: NTS		SCALE: NTS		SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. No. 75584
	DATE 2025.04.09 SUBMITTALS DRAWN SM DESIGNED DMC CHECKED ATC JOB No. 22047	ADAIVI CULLINO MANI	SHEET TITLE BOX-BOW EAVE FRAME RAFTER OPEN CARPORT	Terry Pemberton 141 SW Dante Terr Lake City, FL 32024 SHEET NO. S-2 SCALE AS-SH	ORIDANG THE



GENERAL NOTES

MINIMUM SOIL BEARING CAPACITY: 1500 PSF. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

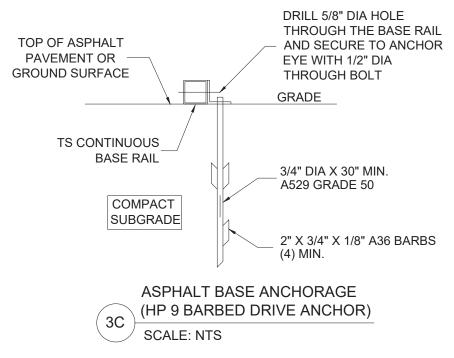
MONOLITHIC FOOTER SIZE 110 C - 140 C 8" x 12" - (2) #4 ABOVE 140 C 12" x 16" - (2) #4

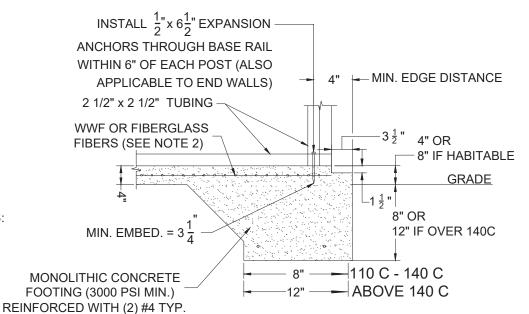
REINFORCING STEEL

- 1. REBAR SHALL BE ASTM A615 GRADE 60
- 2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 3. CONCRETE COVER SHALL BE
- 3.1. 3" WHERE EXPOSED TO SOIL OR WATER.
- 3.2. 2" EVERYWHERE ELSE.
- 4. REBAR SHALL BE BENT WITHOUT HEATING.
- 5. MINIMUM BEND = 6 X BAR DIAMETER
- REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES

- 1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
- 1.1. VERY DENSE AND/OR CEMENTED SANDS
- 1.2. COARSE GRAVEL AND COBBLES
- 1.3. CALICHE
- 1.4. PRELOADED SILTS AND CLAYS
- 1.5. CORALS
- 1.6. MEDIUM DENSE COARSE SANDS
- 1.7. SANDY GRAVEL
- 1.8. VERY STIFF SILTS AND CLAYS
- 2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 48" EMBEDMENT FOR
- 2.1. LOOSE TO MEDIUM DENSE SANDS
- 2.2. FIRM TO STIFF CLAYS AND SILTS
- 2.3. ALLUVIAL FILL
- 3. USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.
- 3.1. FOR VERY LOOSE TO MEDIUM DENSE SANDS
- 3.2. FIRM TO STIFFER CLAYS AND SILTS
- 3.3. ALLUVIAL FILL,





CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE
SCALE: NTS

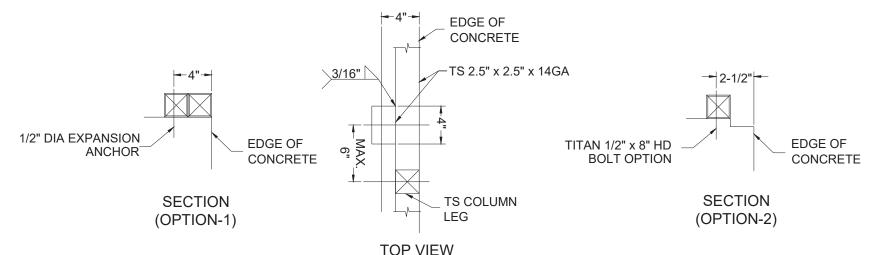
TOP OF ASPHALT
PAVEMENT OR
GROUND SURFACE

TS CONTINUOUS
BASE RAIL
HELIX EYE ANCHOR

DRILL 5/8" DIA HOLE
THROUGH THE BASE RAIL
AND SECURE TO ANCHOR
EYE WITH 1/2" DIA
THROUGH BOLT
GRADE

COMPACT
SUBGRADE

3B GROUND BASE HELIX ANCHORAGE
SCALE: NTS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

HEET TITLE

(OPTION-1)

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PREPARED BY

ADAM COLLING

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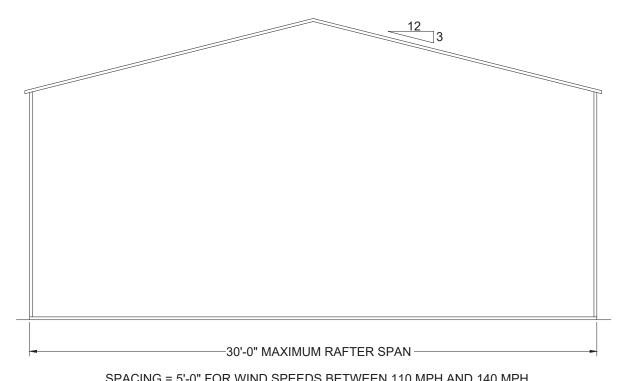
CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

ELITE METAL MANUFACTURING 10121 88TH TRACE BASE RAIL AND ANCHORAGE DETAILS Terry Pemberton 141 SW Dante Terr Lake City, FL 32024

rr <u>scale</u>

S-4

AS-SHOWN



SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

_													_
											II		
													(SEE S-2 FOR TRUSS LAYOUT) 20'-0" MAXIMUM COLUMN HT.
	- SPACING -												
	LENGTH = (NUMBER OF RAFTERS + 1) x SPACING OF RAFTERS												

TYPICAL BOX EAVE RAFTER SIDE FRAMING SECTION

SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

SCALE: NTS

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			JOB No.	22047			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

ELITE METAL MANUFACTURING 10121 88TH TRACE BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING

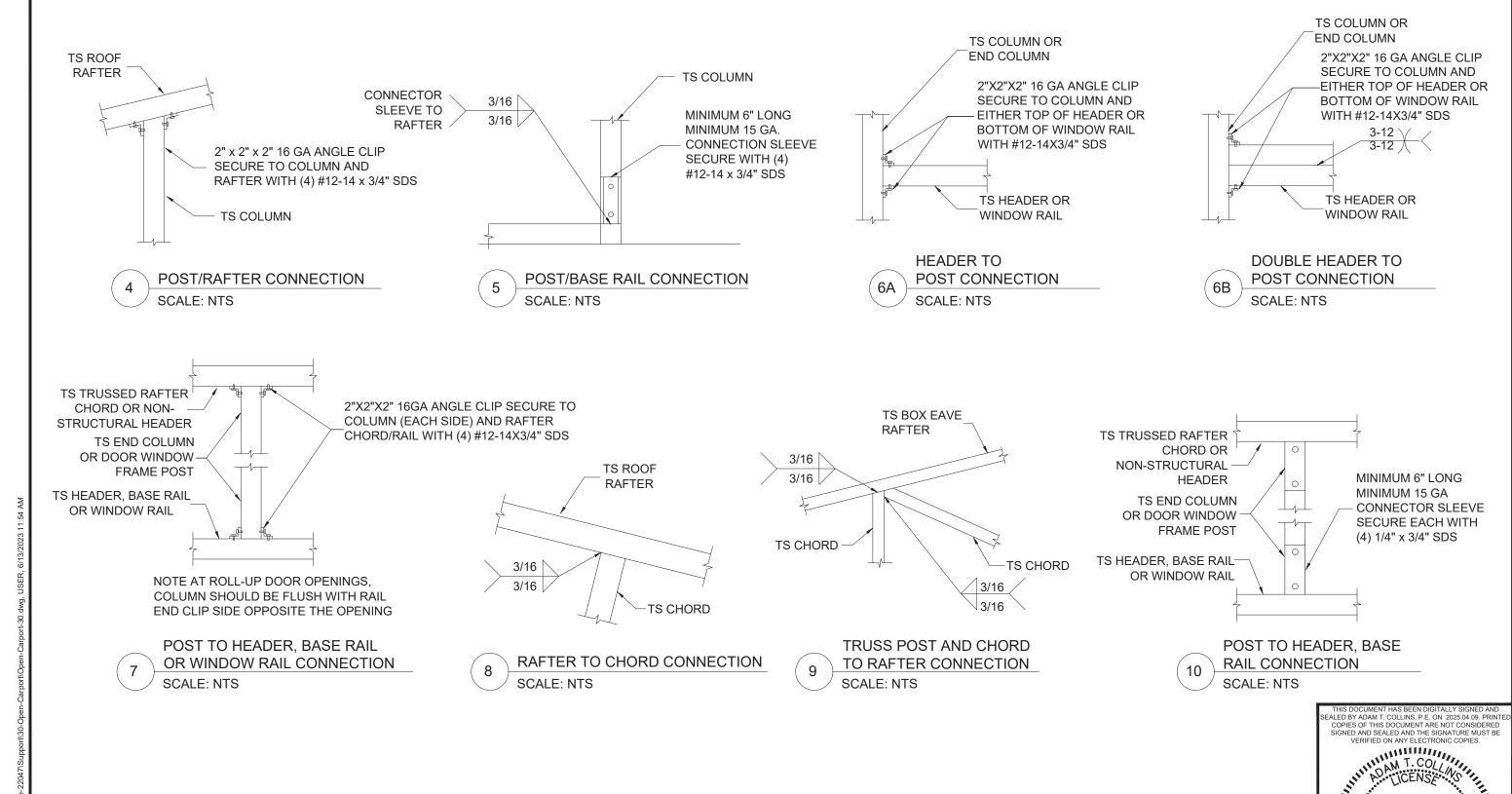
Terry Pemberton 141 SW Dante Terr Lake City, FL 32024 SHEET NO.
S-5
SCALE
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ELITE METAL MANUFACTURING 10121 88TH TRACE CONNECTION DETAILS (2 OF 4)

SHEET TITLE

Terry Pemberton 141 SW Dante Terr Lake City, FL 32024 SHEET NO.
S-6

SCALE
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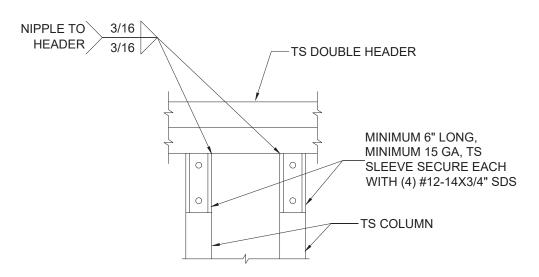
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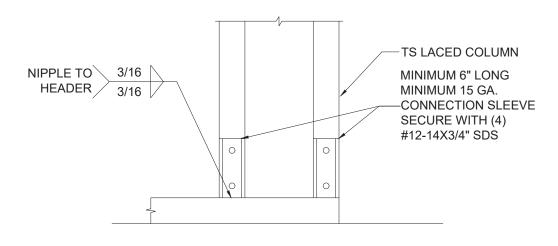
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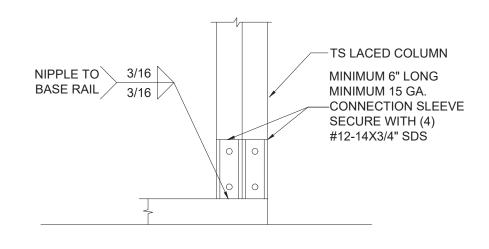
DOUBLE HEADER TO POST CONNECTION 11 SCALE: NTS



POST/BASE RAIL CONNECTION

NIPPLE TO 3/16 HEADER / TS POST MINIMUM 6" LONG, MINIMUM 15 GA, TS SLEEVE SECURE EACH WITH (4) #12-14X3/4" SDS / 3/12 TS DOUBLE HEADER

> POST/DOUBLE HEADER CONNECTION 12 SCALE: NTS



POST/BASE RAIL CONNECTION 13B SCALE: NTS

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SCALE: NTS

ELITE METAL MANUFACTURING 10121 88TH TRACE

SHEET TITLE CONNECTION DETAILS (3 OF 4)

Terry Pemberton 141 SW Dante Terr Lake City, FL 32024

HEET NO. SCALE

S-7

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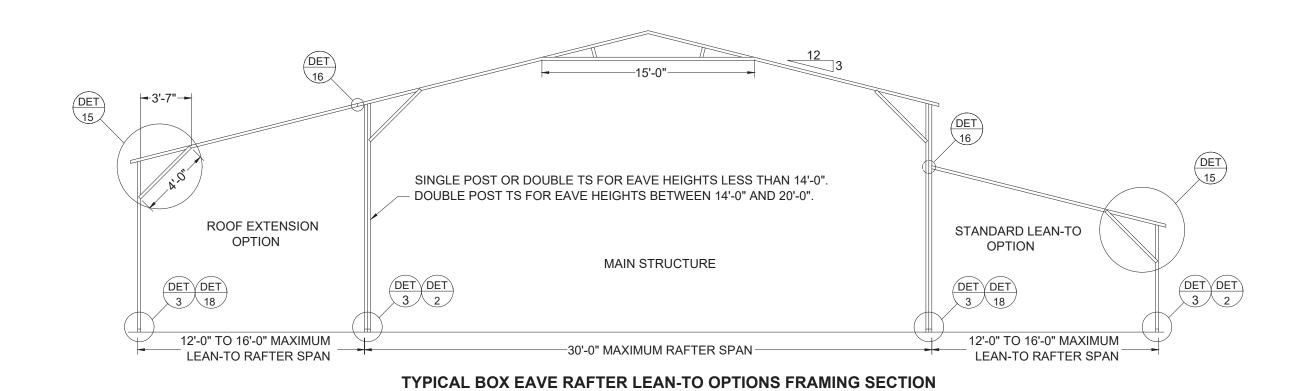
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NIPPLE TO 3/16
RAFTER TYP. 3/16

MIN. 6" LONG, 15 GA TS NIPPLE, SECURE TO POST WITH (4) #12-14 x 3/4" SDS, TYP.

18 GA U-CHANNEL BRACE

LEAN-TO RAFTER/CORNER

POST CONNECTION

SCALE: NTS

SCALE: NTS

REVISIONS 2025.04.09 Terry Pemberton DRAWN SM S-8 **ELITE METAL BOX EAVE RAFTER** DESIGNED DMC MANUFACTURING 141 SW Dante Terr **LEAN TO OPTIONS** SCALE CHECKED ATC 10121 88TH TRACE Lake City, FL 32024 AS-SHOWN 22047 CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

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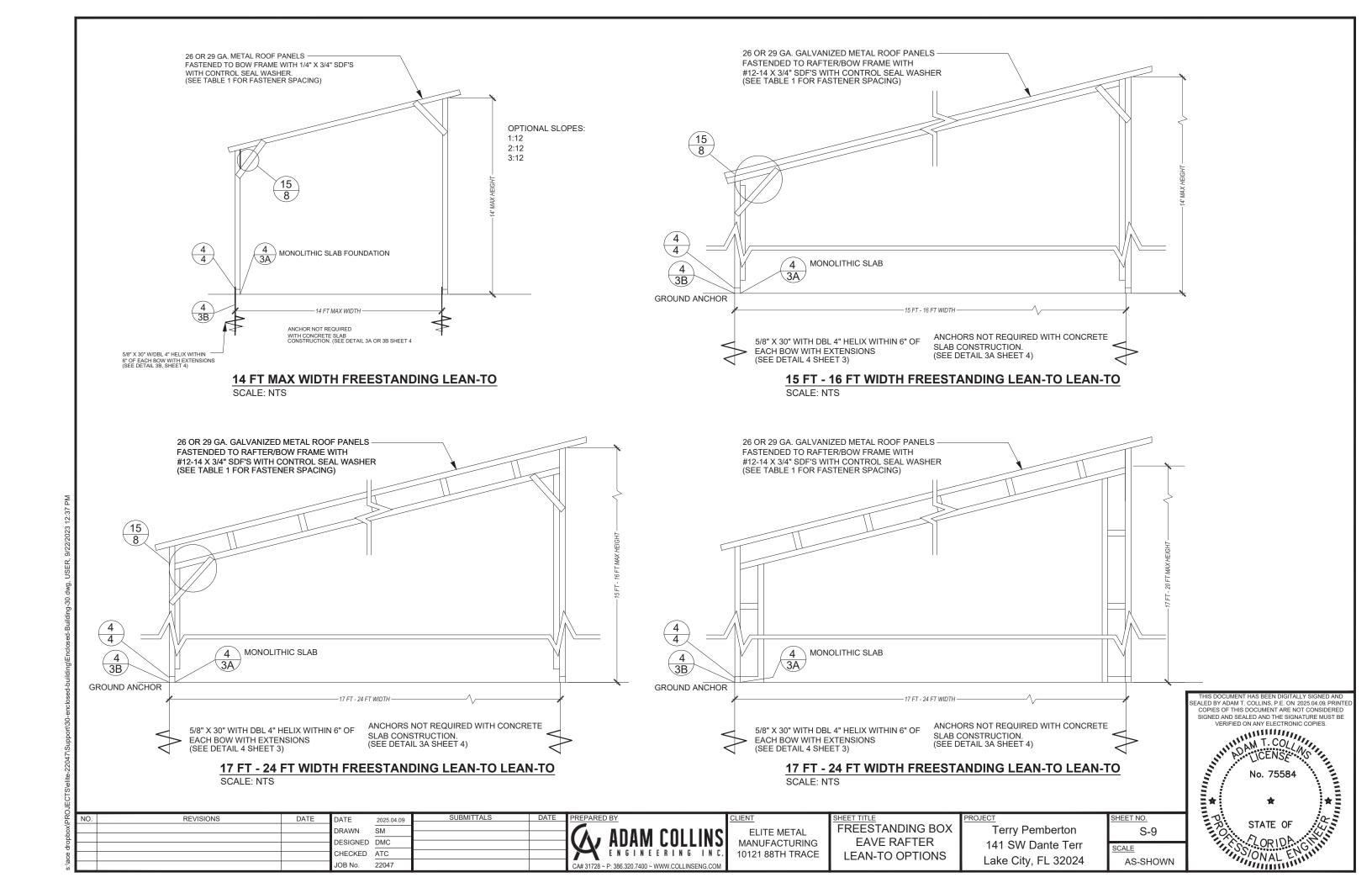
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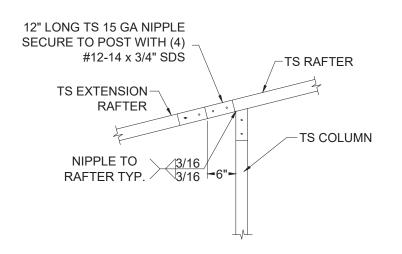
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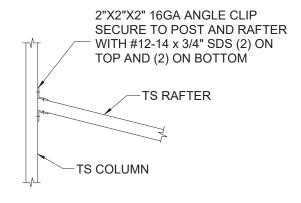
SCALE: NTS

12" LONG TS 15 GA NIPPLE SECURE TO POST WITH (4) / NIPPLE TO 3/16 #12-14 x 3/4" SDS ∕3/16 🗸 RAFTER TYP. TS EXTENSION **RAFTER** TS RAFTER 3-12 TS COLUMN 2" x 2" x 2" 16 GA ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER OR-**BOTTOM OF WINDOW RAIL** WITH #12-14 x 3/4" SDS

SIDE EXTENSION RAFTER/POST CONNECTION RAFTER SPAN LESS THAN 12'-0" 16A

SIDE EXTENSION RAFTER/POST CONNECTION RAFTER SPAN BETWEEN 12'-0" AND 16'-0" 16B

SCALE: NTS



2"X2"X2" 16GA ANGLE CLIP SECURE TO POST AND RAFTER WITH #12-14 x 3/4" SDS (2) ON TOP AND (2) ON BOTTOM TS DOUBLE RAFTER TS COLUMN

LEAN TO RAFTER/COLUMN CONNECTION RAFTER SPANLESS THAN 12'-0" 17B

LEAN TO RAFTER/COLUMN CONNECTION RAFTER SPAN BETWEEN 12'-0" AND 16'-0" 17B SCALE: NTS

ELITE METAL

TS COLUMN MIN. 6" LONG, 15 GA TS NIPPLE, SECURE TO POST WITH (4) NIPPLE TO 3/16
BASE RAIL TYP. 3/16 #12-14 x 3/4" SDS, TYP. TS CONTINUOUS BASE RAIL GRADE

> LEAN-TO POST CONNECTION 18 SCALE: NTS

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ADAM COLLINS MANUFACTURING ENGINEERING INC. 10121 88TH TRACE

SHEET TITLE CONNECTION DETAILS (4 OF 4)

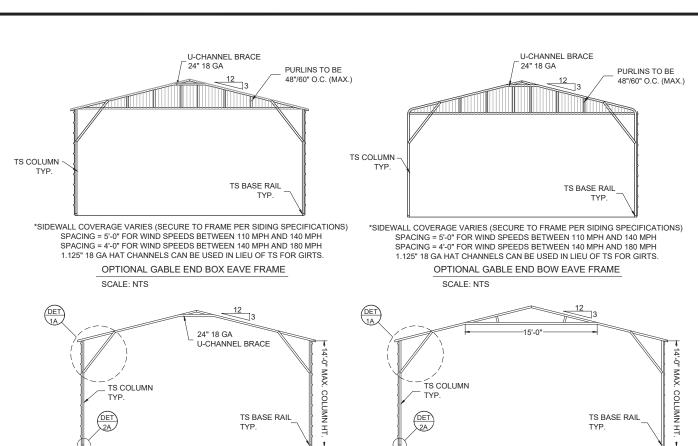
Terry Pemberton 141 SW Dante Terr Lake City, FL 32024

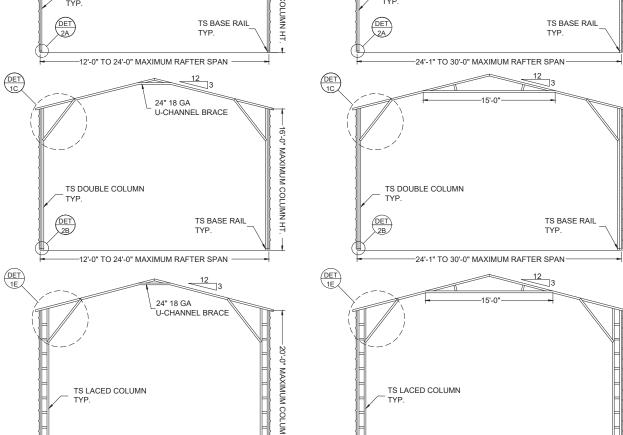
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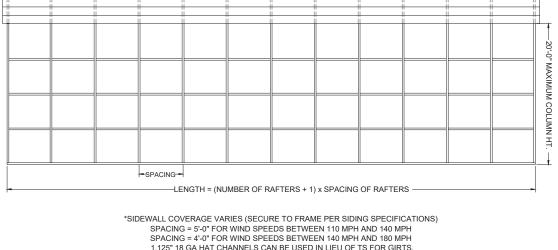
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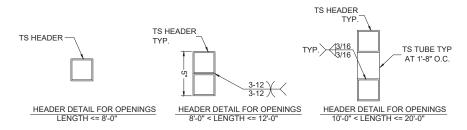




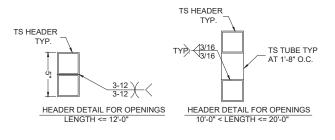
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

TYPICAL SIDE FRAME SECTION

SCALE: NTS



SIDE WALL OPTION HEADER



WITH (2) #12-14 x 3/4" SDS SPACED AT 48" O.C. MAX TS RAFTER

PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS)

END WALL OPTION HEADER

SCALE: NTS

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1.125" 18 GA FURRING CHANNEL

FASTENED TO EACH RAFTER

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BOX EAVE FRAME

TS BASE RAIL

TYP

-12'-0" TO 24'-0" MAXIMUM RAFTER SPAN

BOX EAVE RAFTER ELITE METAL **VERTICAL** MANUFACTURING 10121 88TH TRACE **ROOF-SIDING OPTION**

TS BASE RAIL_

-24'-1" TO 30'-0" MAXIMUM RAFTER SPAN-

Terry Pemberton 141 SW Dante Terr Lake City, FL 32024

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GENERAL NOTES

MINIMUM SOIL BEARING CAPACITY: 1500 PSF. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL

- 1. REBAR SHALL BE ASTM A615 GRADE 60
- 2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 3. CONCRETE COVER SHALL BE
- 3.1. 3" WHERE EXPOSED TO SOIL OR WATER.
- 3.2. 2" EVERYWHERE ELSE.
- 4. REBAR SHALL BE BENT WITHOUT HEATING.
- 5. MINIMUM BEND = 6 X BAR DIAMETER

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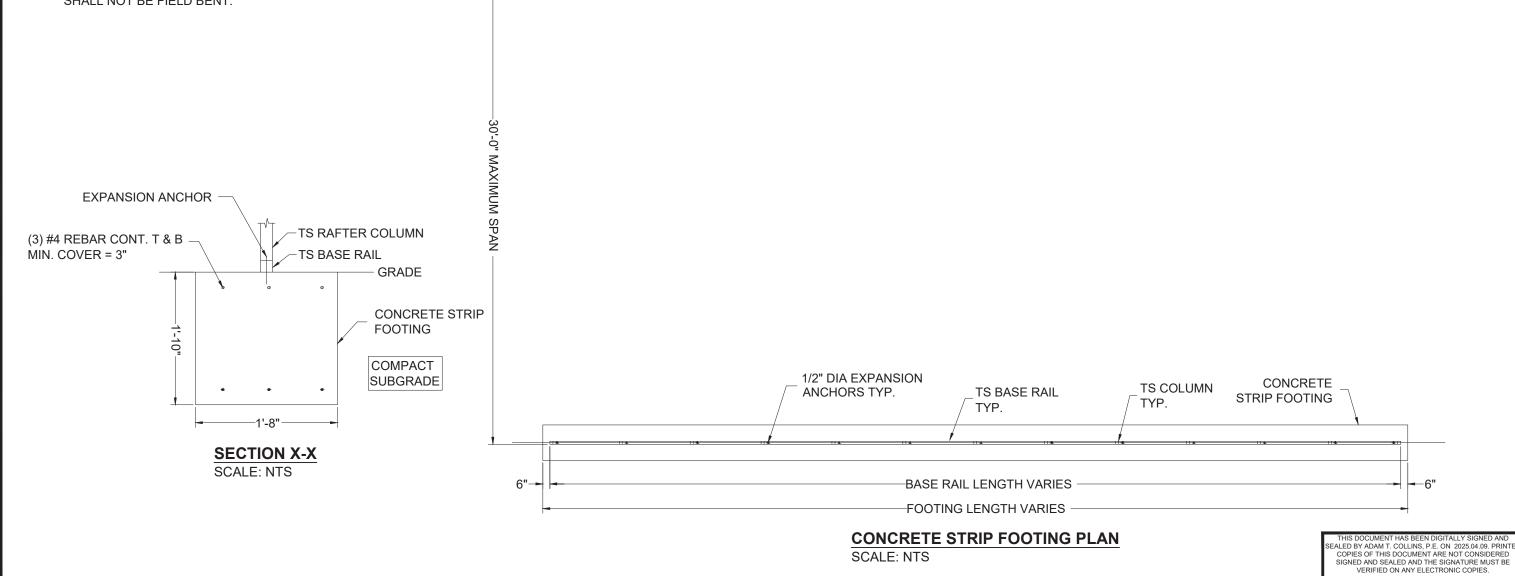
22047

DRAWN

DESIGNED DMC

CHECKED ATC

6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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ELITE METAL MANUFACTURING 10121 88TH TRACE OPTIONAL CONCRETE
STRIP FOOTING

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