

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

DESIGN LOADS

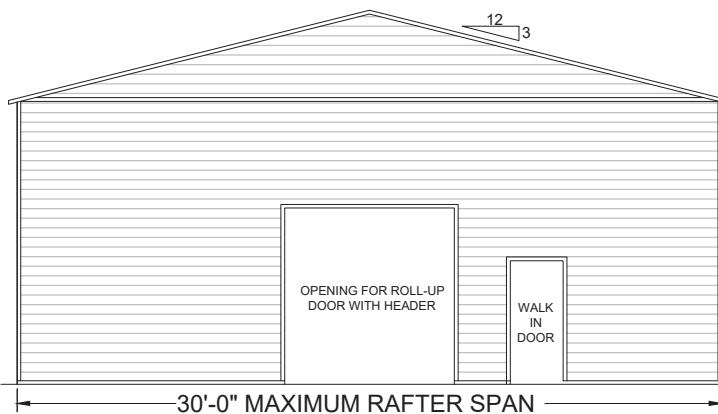
- DEAD LOAD = 15 PSF
- LIVE LOAD = 20 PSF
- WIND LOAD (SEE TABLE 1)

ENCLOSED METAL BUILDING DESIGN

26FT WIDE X 30FT LONG X 10FT EAVE HT.

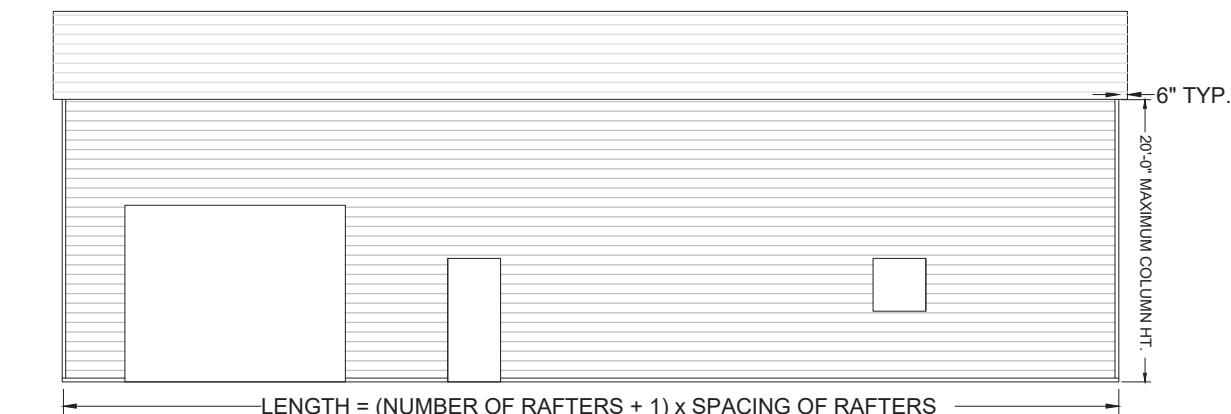
INSTALLATION NOTES AND SPECIFICATIONS

- ROOF PITCH SHALL NOT BE GREATER THAN 12H:4V
- END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE THE SAME U.N.O.
- 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.
- FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE:
 - INTERIOR = 9"
 - END = 6"
- 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.
- 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.



TYPICAL ELEVATION - BOX EAVE

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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

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

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

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)
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S-12	OPTIONAL CONCRETE STRIP FOOTING
S-13	OPTIONAL HELICAL ANCHORING DETAIL

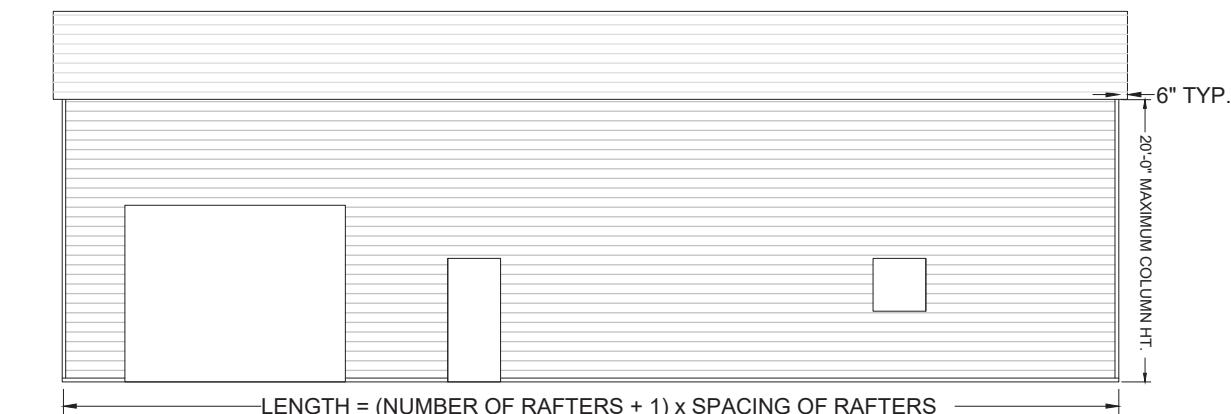
ENCLOSED METAL BUILDING DESIGN

26FT WIDE X 30FT LONG X 10FT EAVE HT.



TYPICAL ELEVATION - BOX EAVE

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

TABLE 2

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

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

LEAN-TO INDEX

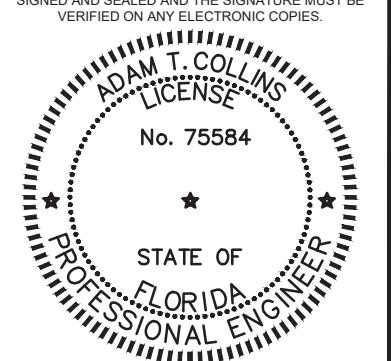
BUILDING SIDE	LEAN-TO SIZE (FT)
LEFT	
RIGHT	
FRONT	
REAR	

TABLE 3

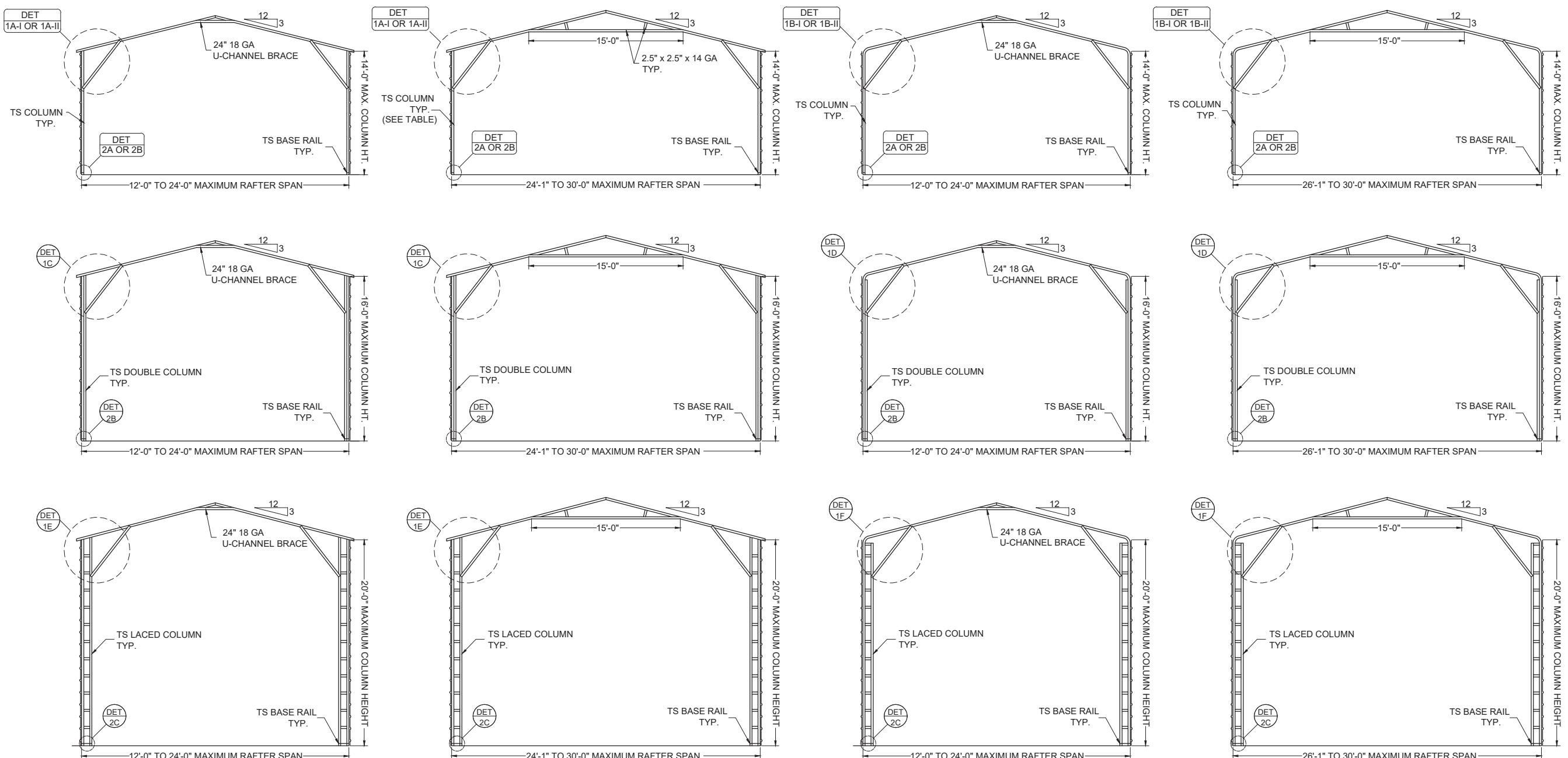
COMPONENTS AND CLADDING DESIGN PRESSURES MEAN ROOF HT 25 FT, EXPOSURE C (PSF)

Zone	120		130		140		150		160		170		180	
	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

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					DMC					SCALE
					ATC					AS-SHOWN
					JOB No.	22047				



BOX EAVE FRAME

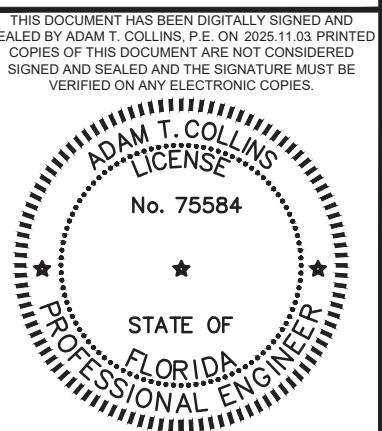
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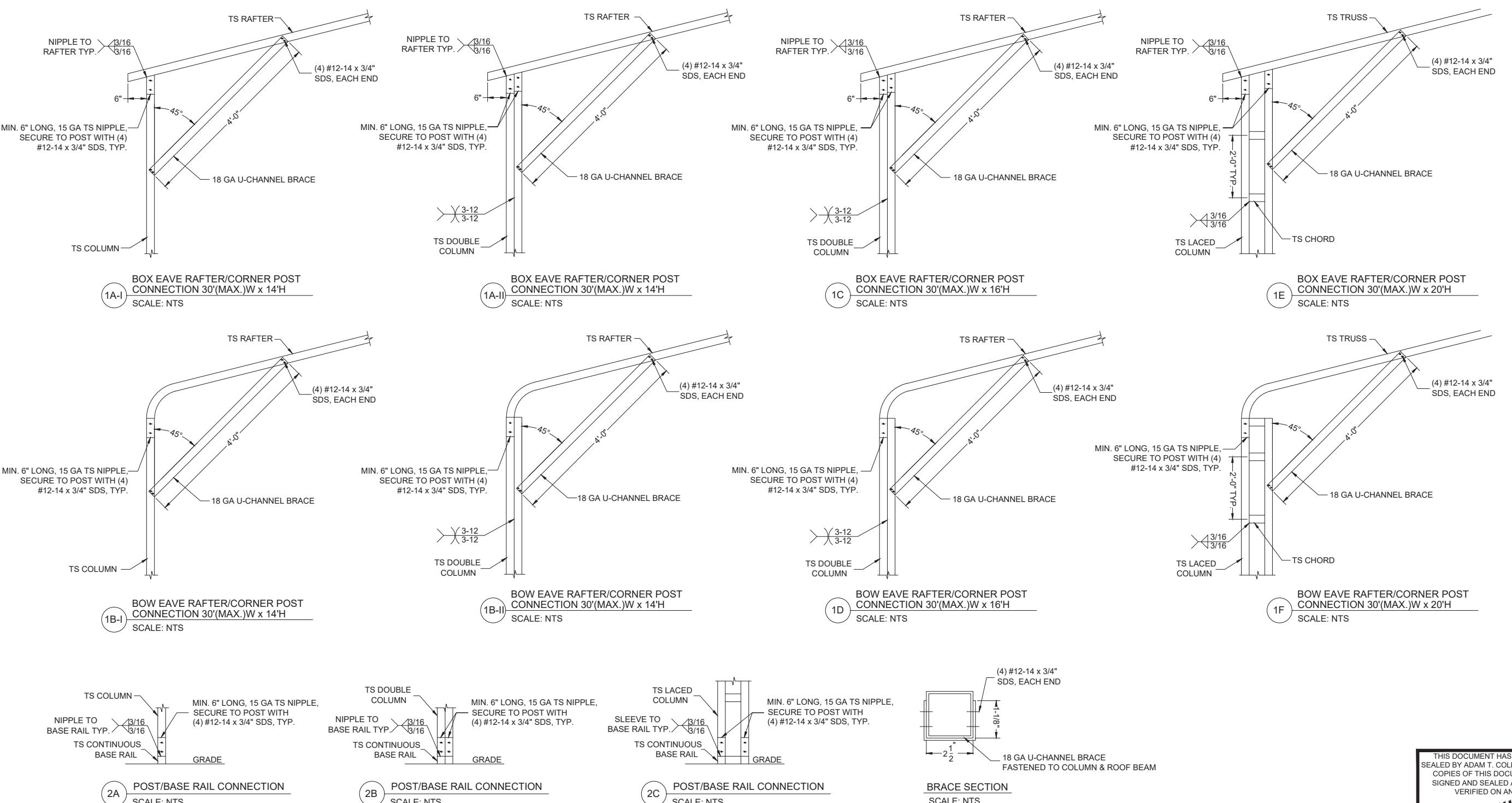
BOW EAVE FRAME

SCALE: NTS

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			2025.11.03			ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-2
			SM			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				AS-SHOWN
			DMC							
			ATC							
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			22047							

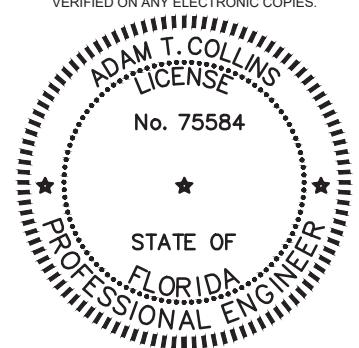
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			DRAWN	SM		DESIGNED	DMC				10121 88TH TRACE	CONNECTION DETAILS	(1 OF 4)			
			CHECKED	ATC		JOB No.	22047								SCALE	AS-SHOWN

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GENERAL NOTES

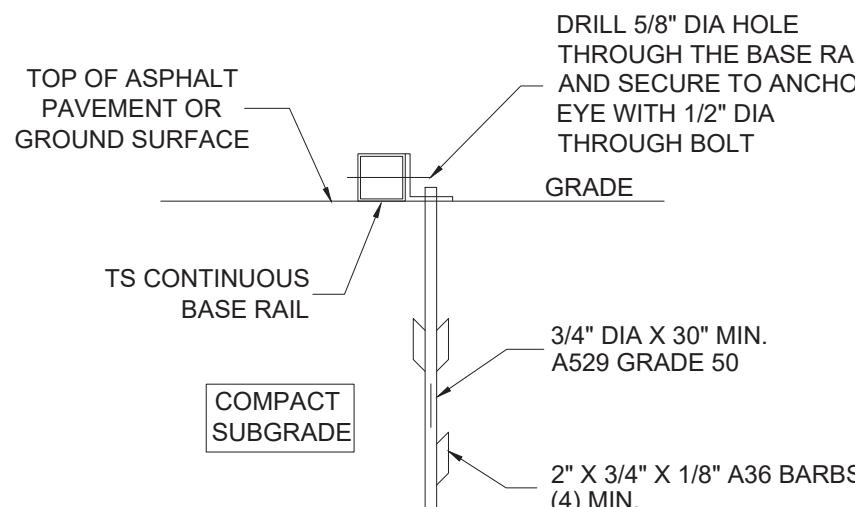
MINIMUM SOIL BEARING CAPACITY: 1500 PSF.
CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

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

HELIX ANCHOR NOTES

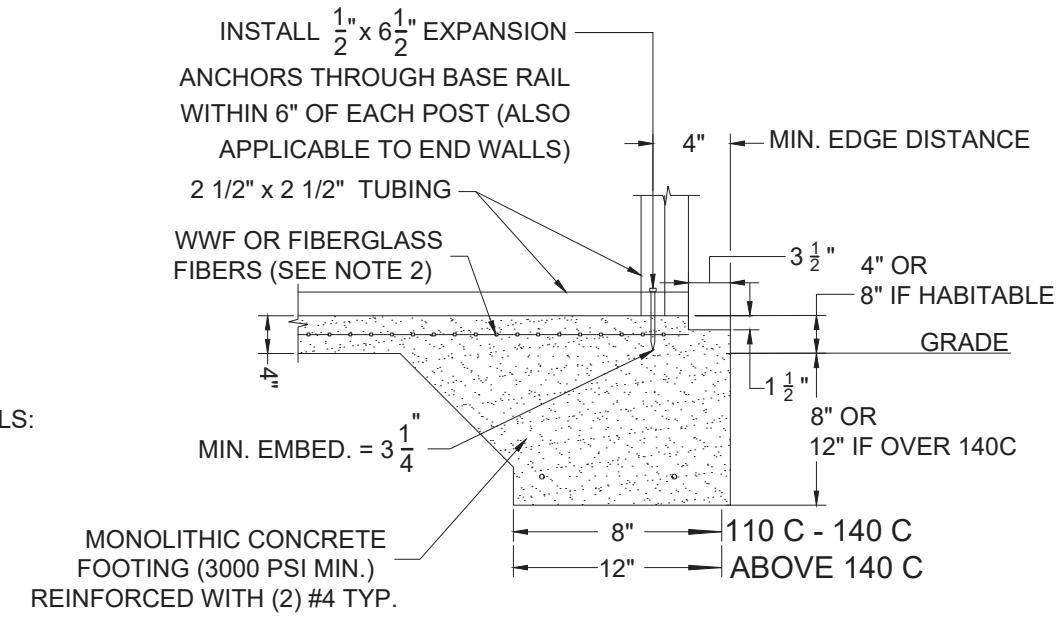
1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
 - 1.1. VERY DENSE AND/OR CEMENTED SANDS
 - 1.2. COARSE GRAVEL AND COBBLES
 - 1.3. CALICHE
 - 1.4. PRELOADED SILTS AND CLAYS
 - 1.5. CORALS
 - 1.6. MEDIUM DENSE COARSE SANDS
 - 1.7. SANDY GRAVEL
 - 1.8. VERY STIFF SILTS AND CLAYS
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,



ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR)

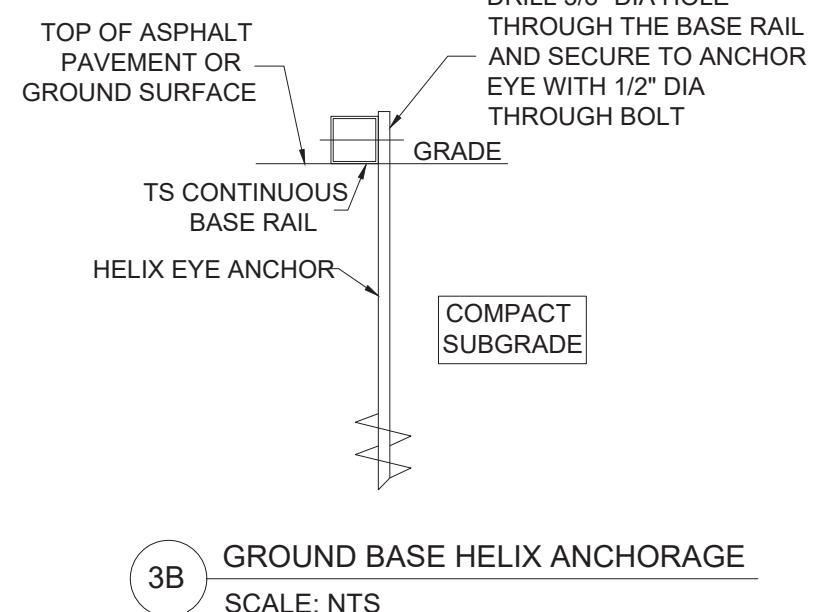
SCALE: NTS

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

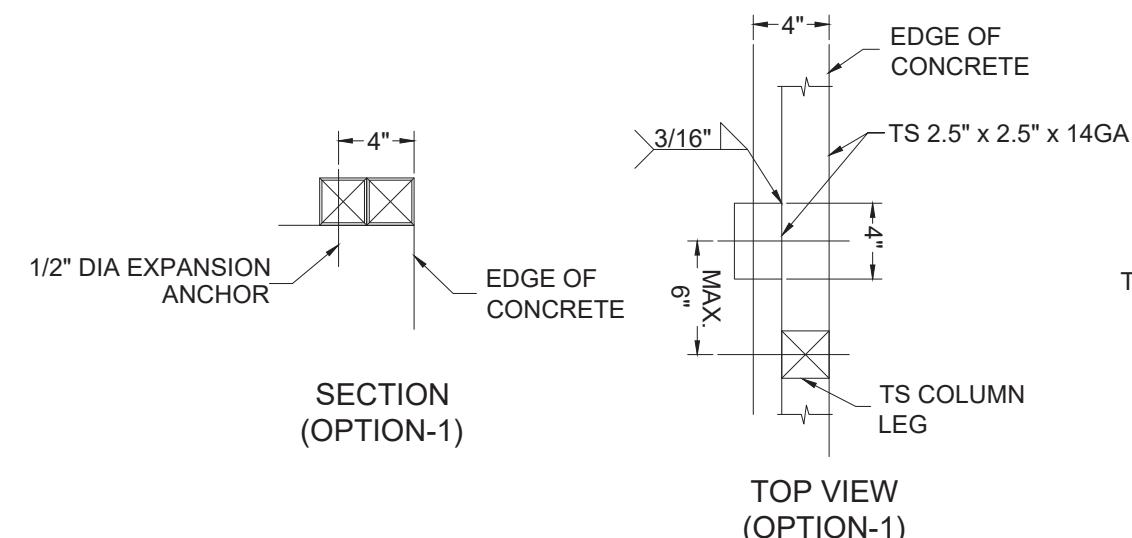


CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE

3A SCALE: NTS



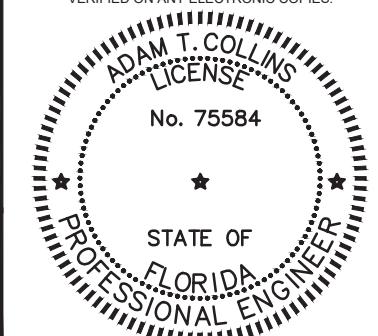
3B GROUND BASE HELIX ANCHORAGE
SCALE: NTS



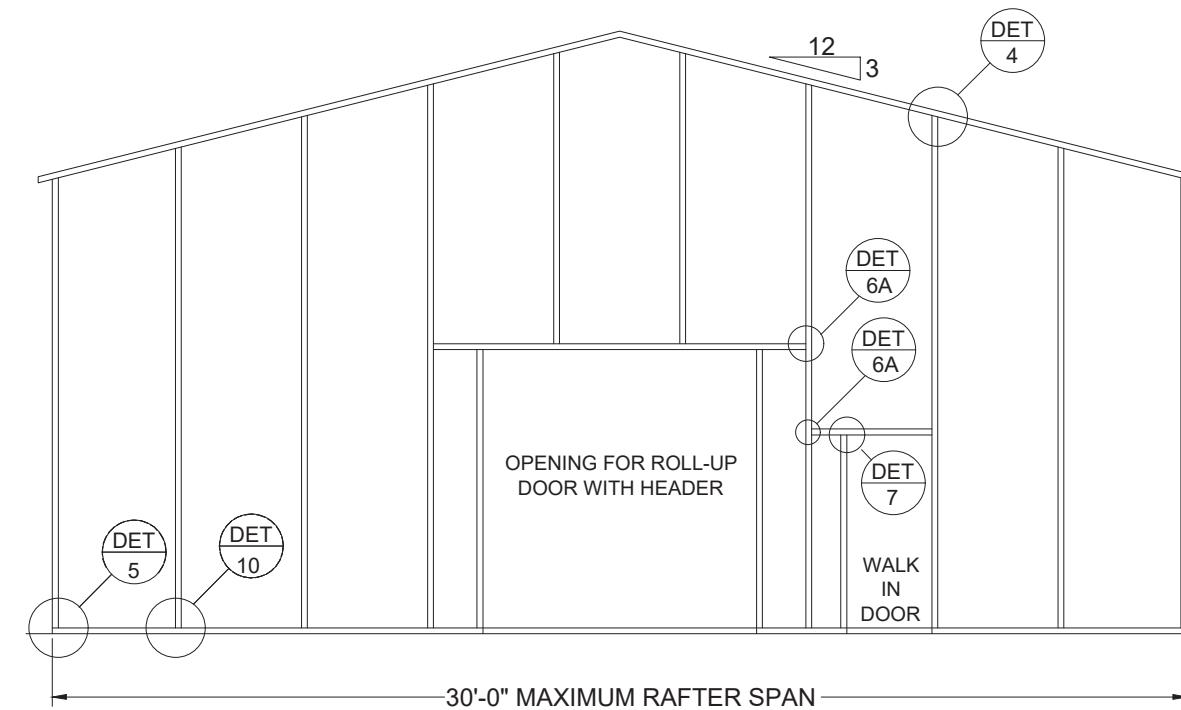
TYPICAL ANCHOR DETAIL WHEN BASE
RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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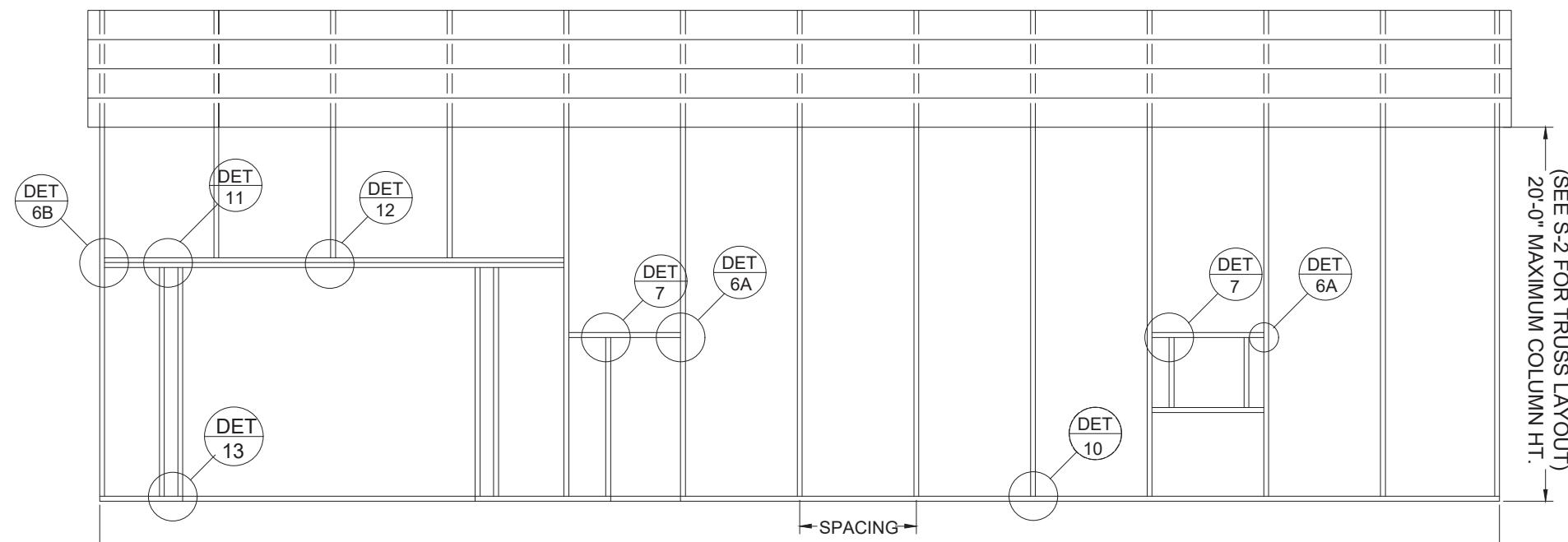
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		2025.11.03	SM			ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BASE RAIL AND ANCHORAGE DETAILS	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-4
			DESIGNED DMC							SCALE
			CHECKED ATC							AS-SHOWN
			JOB No.	22047		CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				



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



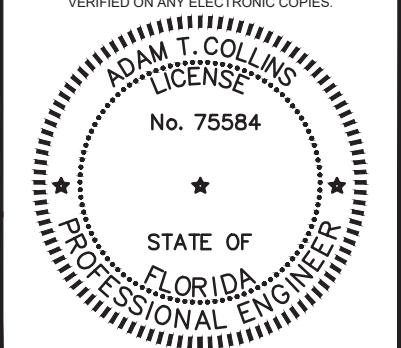
LENGTH = (NUMBER OF RAFTERS + 1) x SPACING OF RAFTERS
 SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
 SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

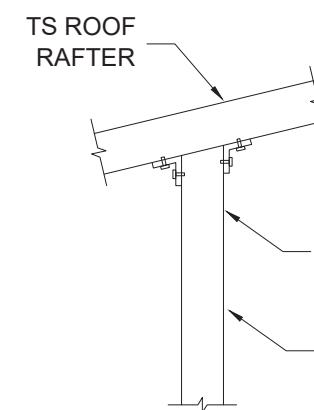
TYPICAL BOX EAVE Rafter SIDE FRAMING SECTION

SCALE: NTS

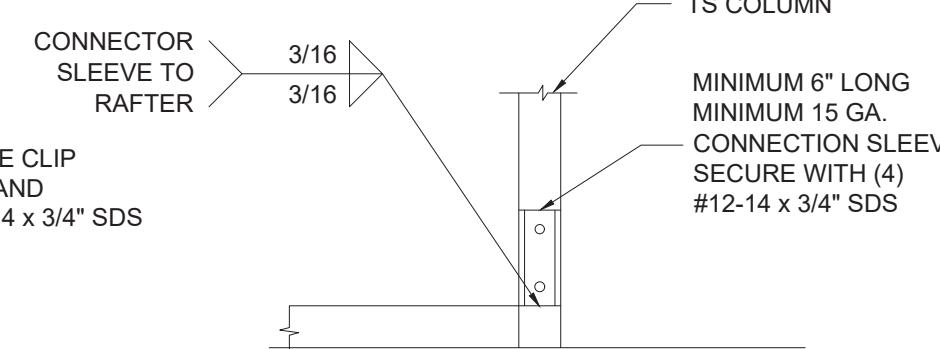
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				CHECKED	DMC						SCALE	AS-SHOWN
				JOB No.	ATC							
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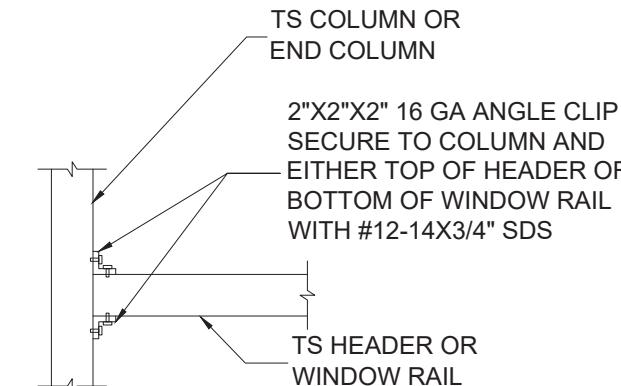




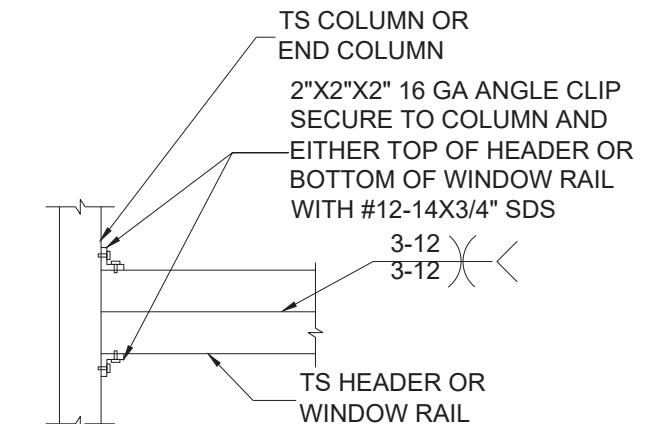
4 POST/RAFTER CONNECTION
SCALE: NTS



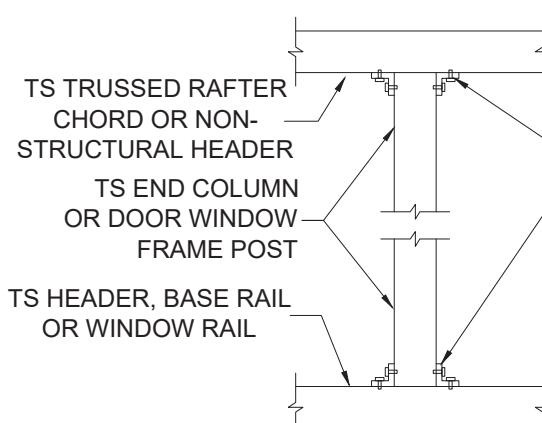
5 POST/BASE RAIL CONNECTION
SCALE: NTS



6A HEADER TO
POST CONNECTION
SCALE: NTS



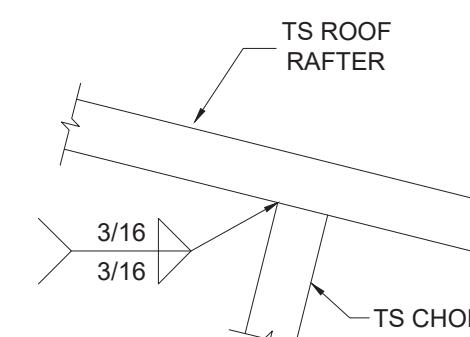
6B DOUBLE HEADER TO
POST CONNECTION
SCALE: NTS



7 POST TO HEADER, BASE RAIL
OR WINDOW RAIL CONNECTION
SCALE: NTS

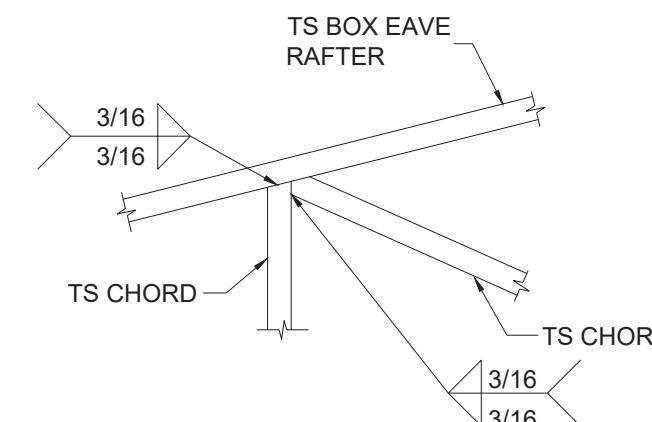
2"x2"x2" 16GA ANGLE CLIP SECURE TO
COLUMN (EACH SIDE) AND RAFTER
CHORD/RAIL WITH (4) #12-14X3/4" SDS

NOTE AT ROLL-UP DOOR OPENINGS,
COLUMN SHOULD BE FLUSH WITH RAIL
END CLIP SIDE OPPOSITE THE OPENING



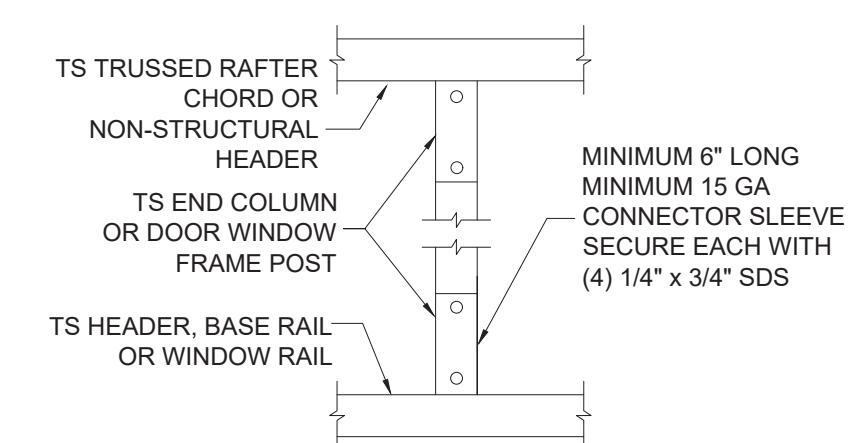
8 Rafter to Chord Connection
SCALE: NTS

2"x2"x2" 16GA ANGLE CLIP SECURE TO
COLUMN (EACH SIDE) AND RAFTER
CHORD/RAIL WITH (4) #12-14X3/4" SDS



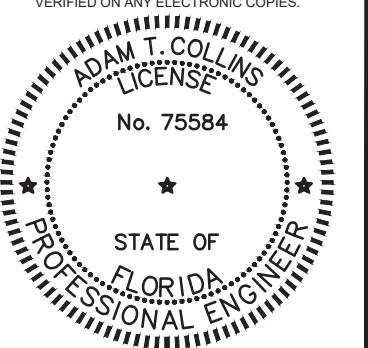
9 TRUSS POST AND CHORD
TO RAFTER CONNECTION
SCALE: NTS

2"x2"x2" 16GA ANGLE CLIP SECURE TO
COLUMN (EACH SIDE) AND RAFTER
CHORD/RAIL WITH (4) #12-14X3/4" SDS

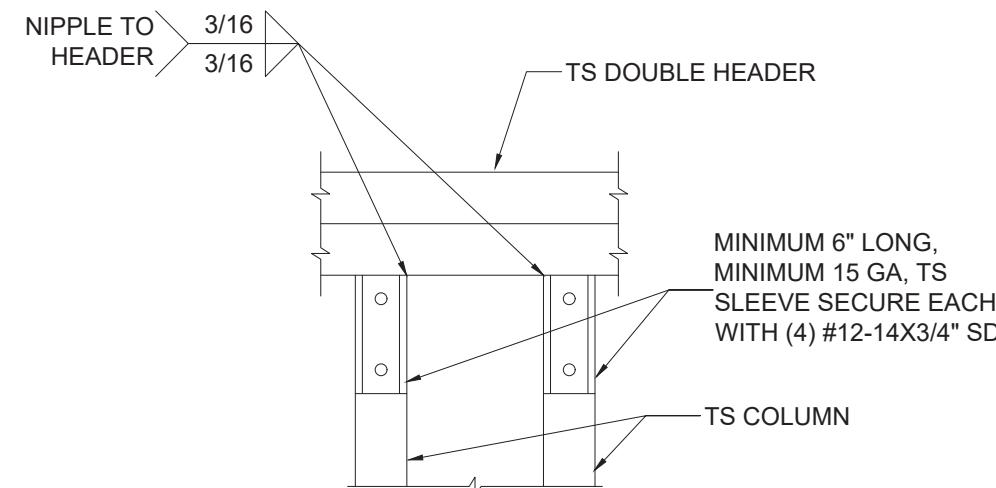


10 POST TO HEADER, BASE
RAIL CONNECTION
SCALE: NTS

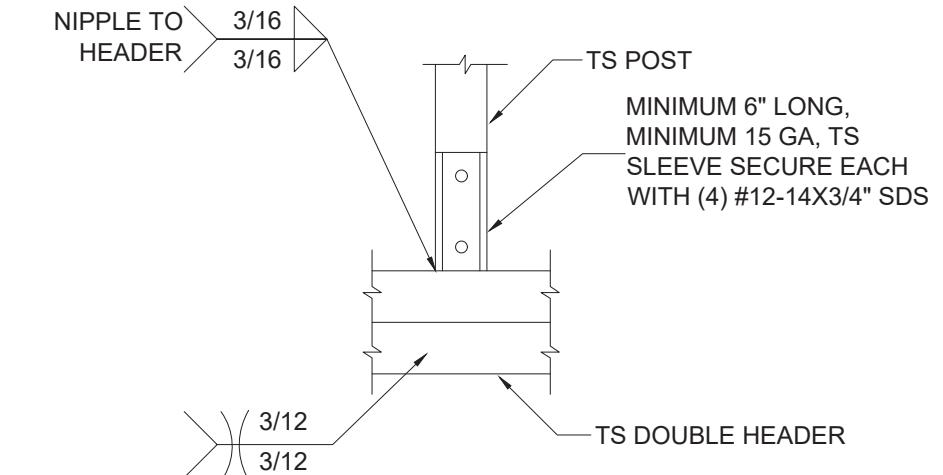
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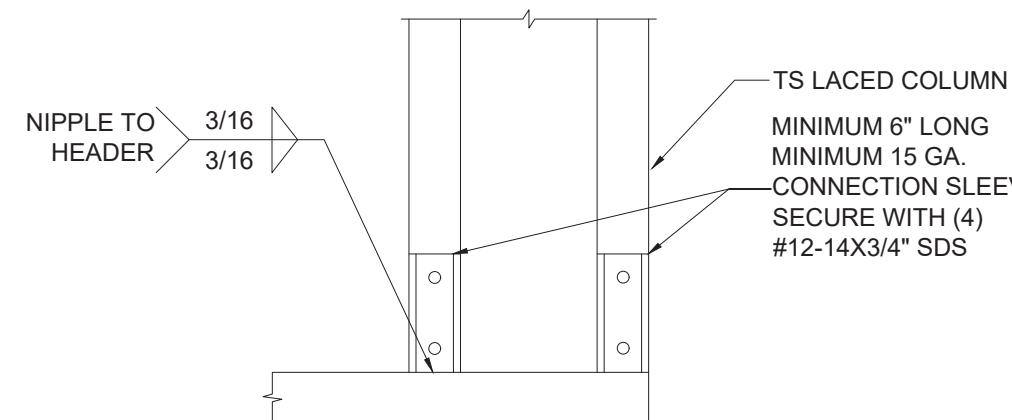
NO.	REVISIONS	DATE	DATE DRAWN	2025.11.03	SUBMITTALS	DATE	PREPARED BY	CLIENT	Sheet Title	Project	Sheet No.
			DRAWN	SM				ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-6
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047			ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				



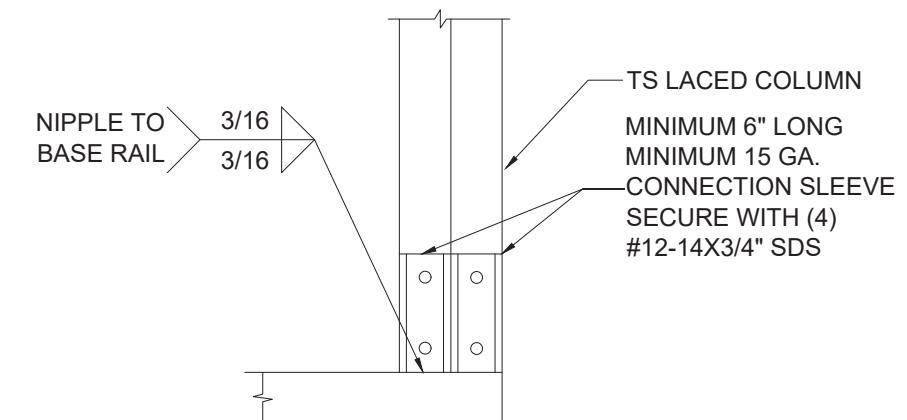
11 DOUBLE HEADER TO POST CONNECTION
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION
SCALE: NTS



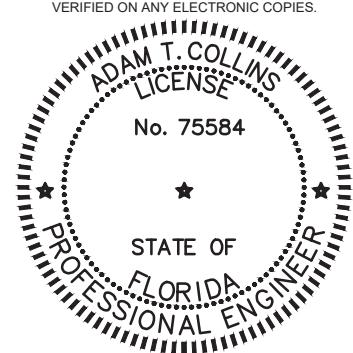
13A POST/BASE RAIL CONNECTION
SCALE: NTS

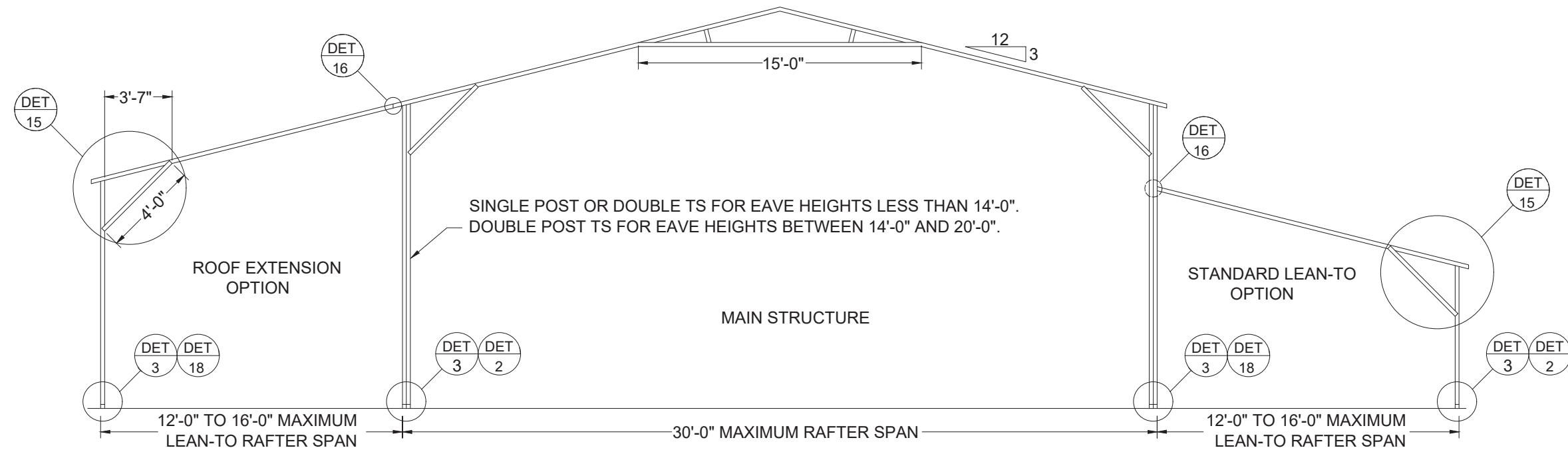


13B POST/BASE RAIL CONNECTION
SCALE: NTS

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				DESIGNED			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				SCALE
				CHECKED							AS-SHOWN
				JOB No.							
				22047							

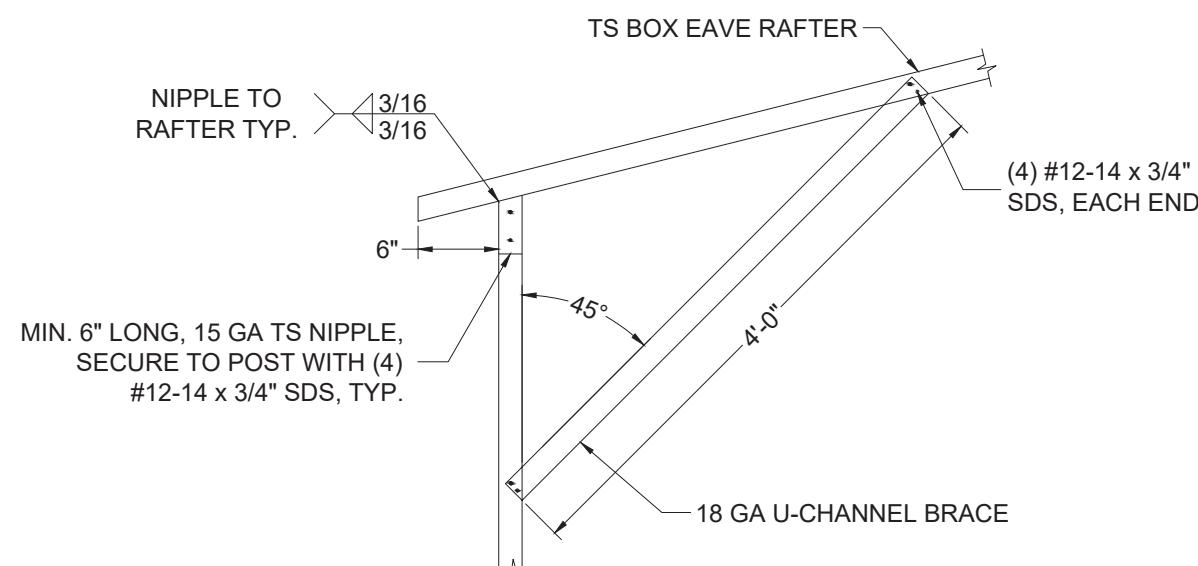
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TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS



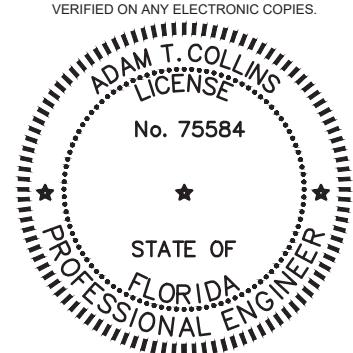
LEAN-TO RAFTER/CORNER POST CONNECTION

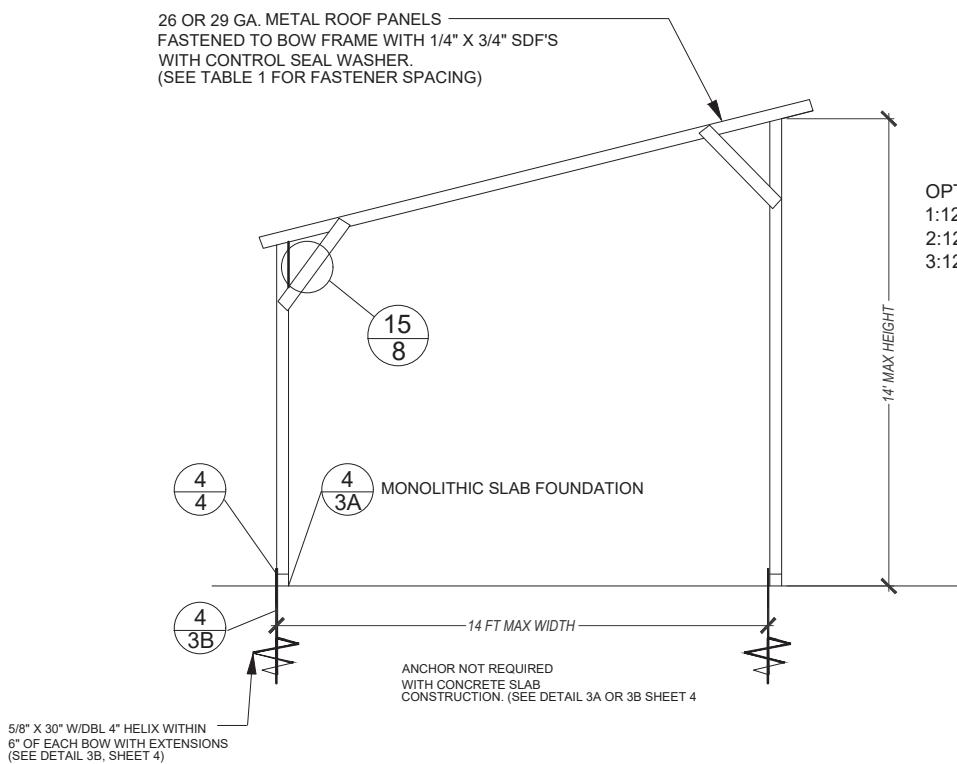
SCALES

SCHREIBER

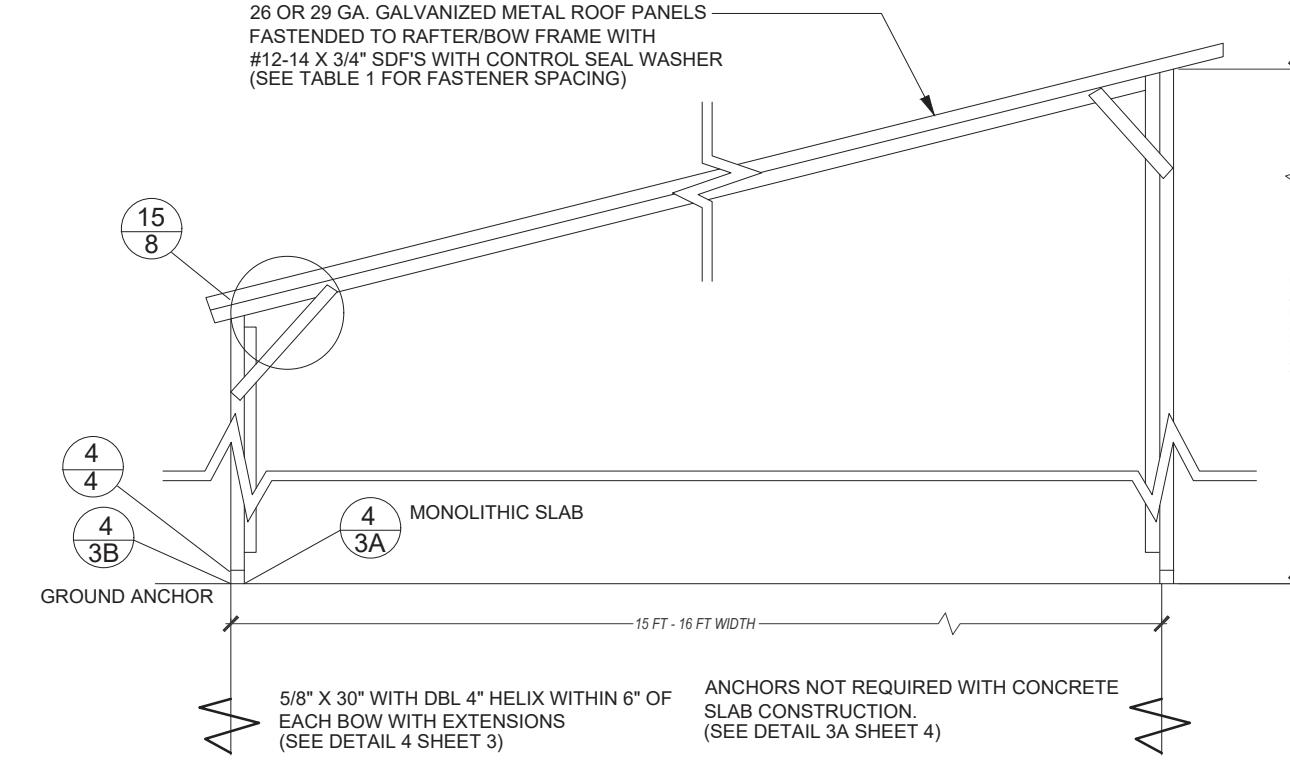
NO.	REVISIONS	DATE	DATE	2025.11.03	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
	DRAWN	SM					 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER LEAN TO OPTIONS	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-8
	DESIGNED	DMC									SCALE
	CHECKED	ATC									AS-SHOWN
	JOB No.	22047					CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				

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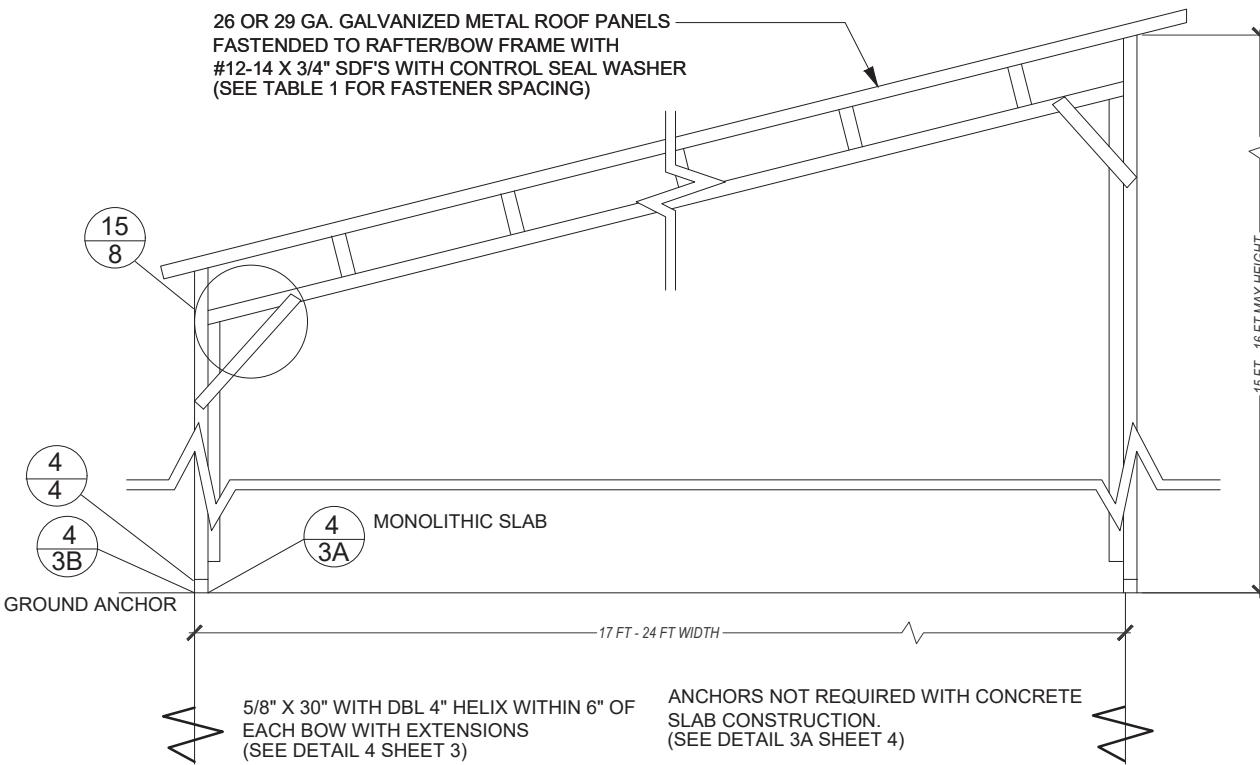




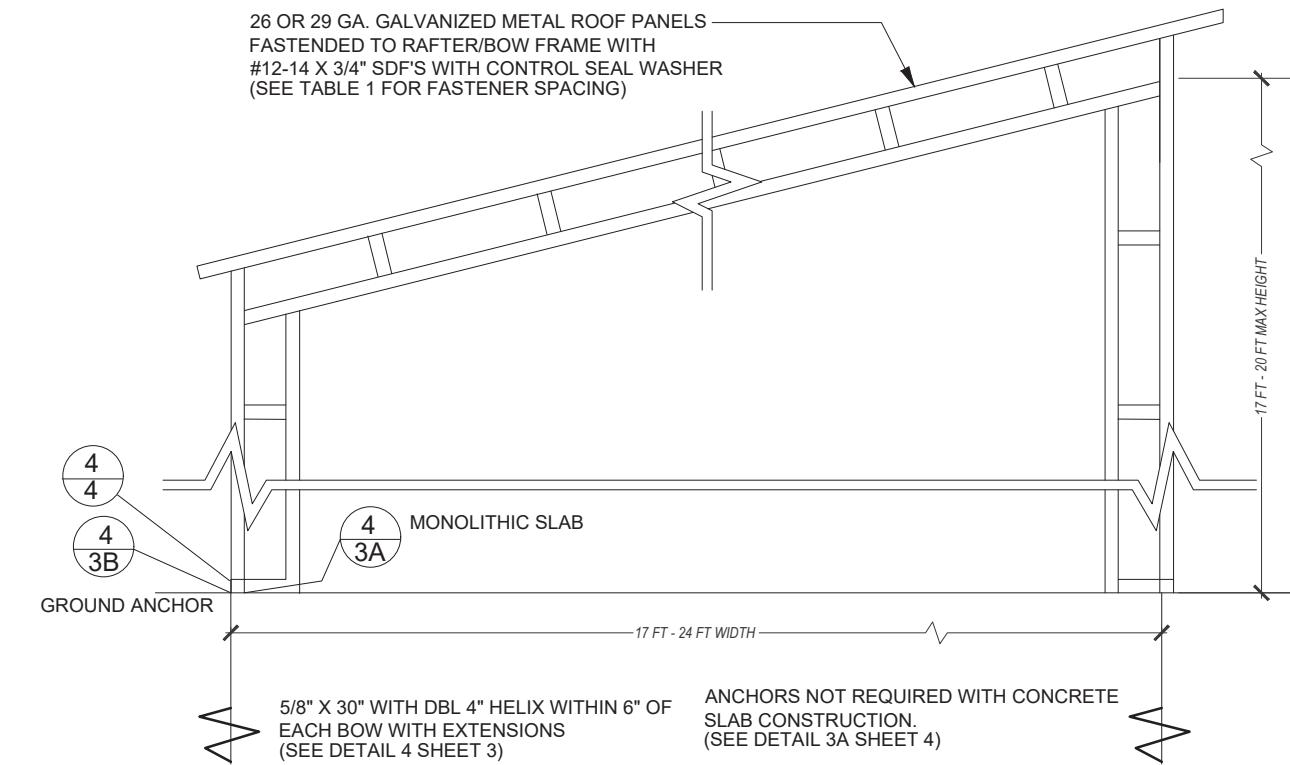
14 FT MAX WIDTH FREESTANDING LEAN-TO
SCALE: NTS



15 FT - 16 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS



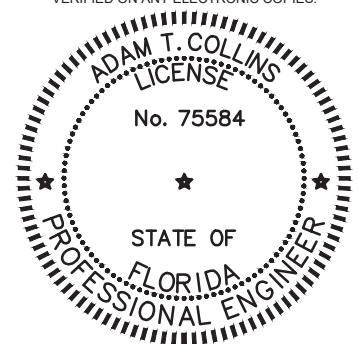
17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS



17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS

NO.	REVISIONS	DATE	DATE	DRAWN	DESIGNED	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			#0000##08					 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-9
				SM	DMC							SCALE
				DESIGNED	ATC							AS-SHOWN
				CHECKED								
				JOB No.				CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				

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

TS EXTENSION
RAFTER

TS Rafter

NIPPLE TO
RAFTER TYP.

3/16
3/16

6"

TS COLUMN

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

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

TS EXTENSION
RAFTER

3/16
3/16

NIPPLE TO
RAFTER TY

TS Rafter

TS COLUMN

3-12
3-12

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

6"

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

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

TS RAFTER

TS COLUMN

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

X2" X2" 16GA ANGLE CLIP SECURE TO POST AND RAFTER WITH #12-14 x 3/4" SDS (2) ON TOP AND (2) ON BOTTOM angle clips are used to secure the rafter to the column. Arrows point from the text labels to the corresponding parts in the diagram."/>

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

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

TS COLUMN

NIPPLE TO BASE RAIL TYP.

TS CONTINUOUS BASE RAIL

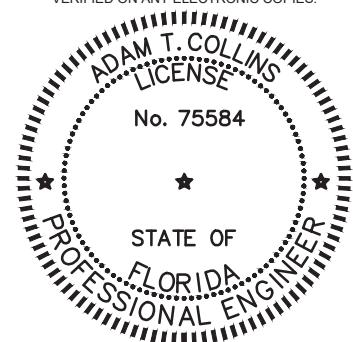
GRADE

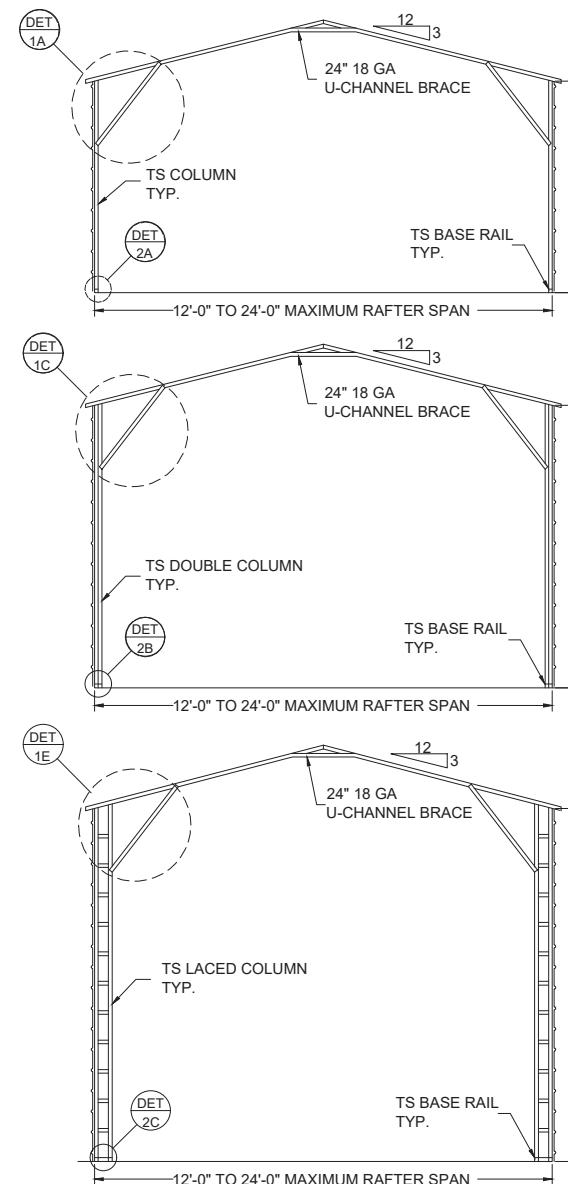
MIN. 6" LONG, 15 GA TS NIPPLE,
SECURE TO POST WITH (4)
#12-14 x 3/4" SDS, TYP.

18 LEAN-TO POST CONNECTION
SCALE: NTS

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	DRAWN	SM					 ADAM COLLINS <small>ENGINEERING INC.</small>	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (4 OF 4)	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-10 SCALE AS-SHOWN
	DESIGNED	DMC									
	CHECKED	ATC									
	JOB No.	22047									

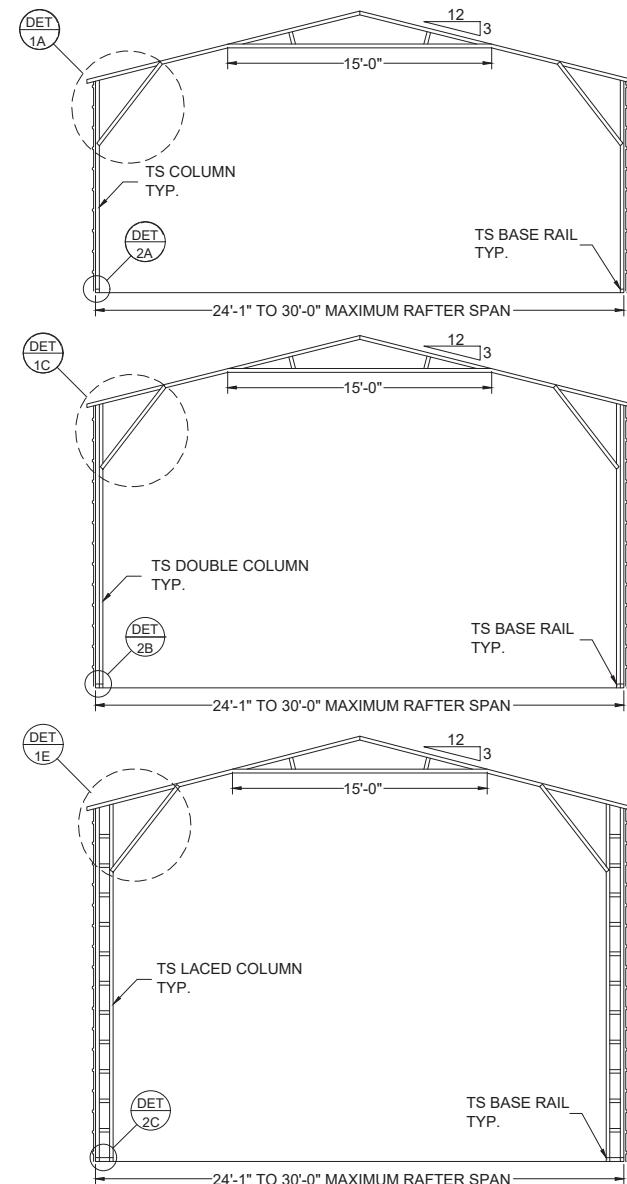
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BOX EAVE FRAME

SCALE: NTS

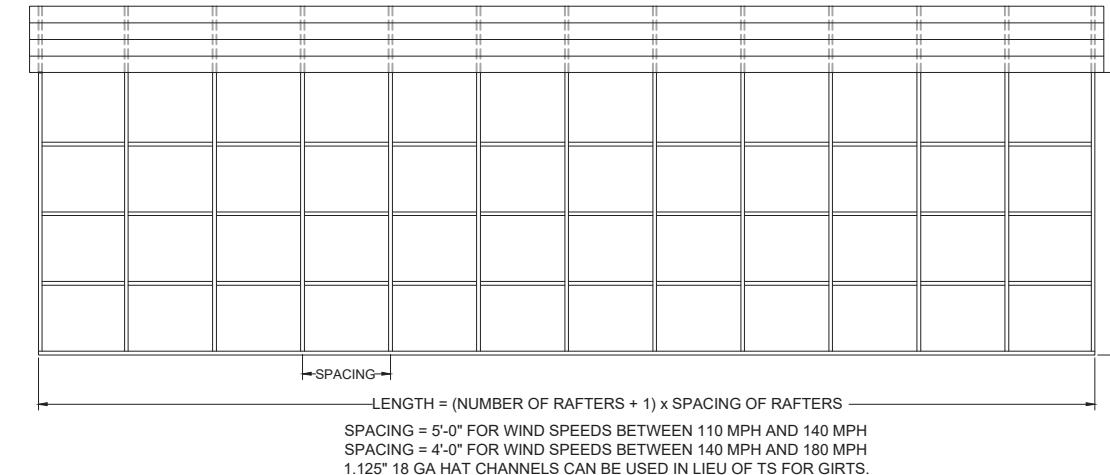


1.125" 18 GA FURRING CHANNEL
FASTENED TO EACH RAFTER
WITH (2) #12-14 x 3/4" SDS
SPACED AT 48" O.C. MAX

TS RAFTER

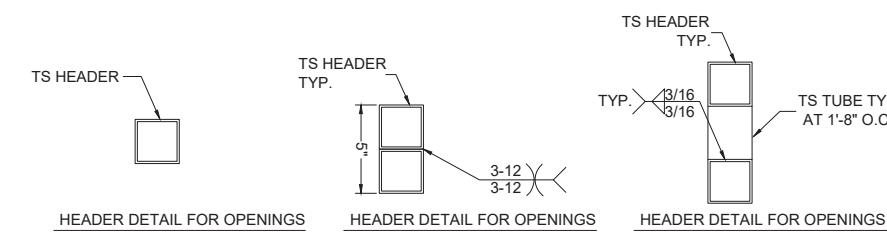
PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



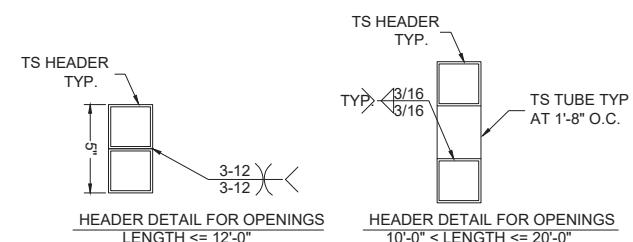
TYPICAL SIDE FRAME SECTION

SCALE: NTS



SIDE WALL OPTION HEADER

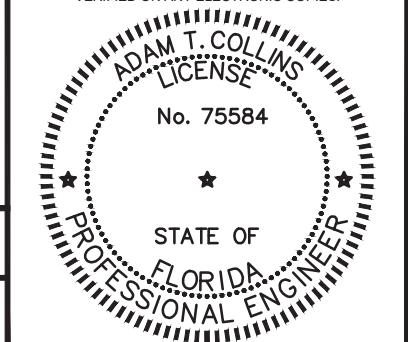
SCALE: NTS



END WALL OPTION HEADER

SCALE: NTS

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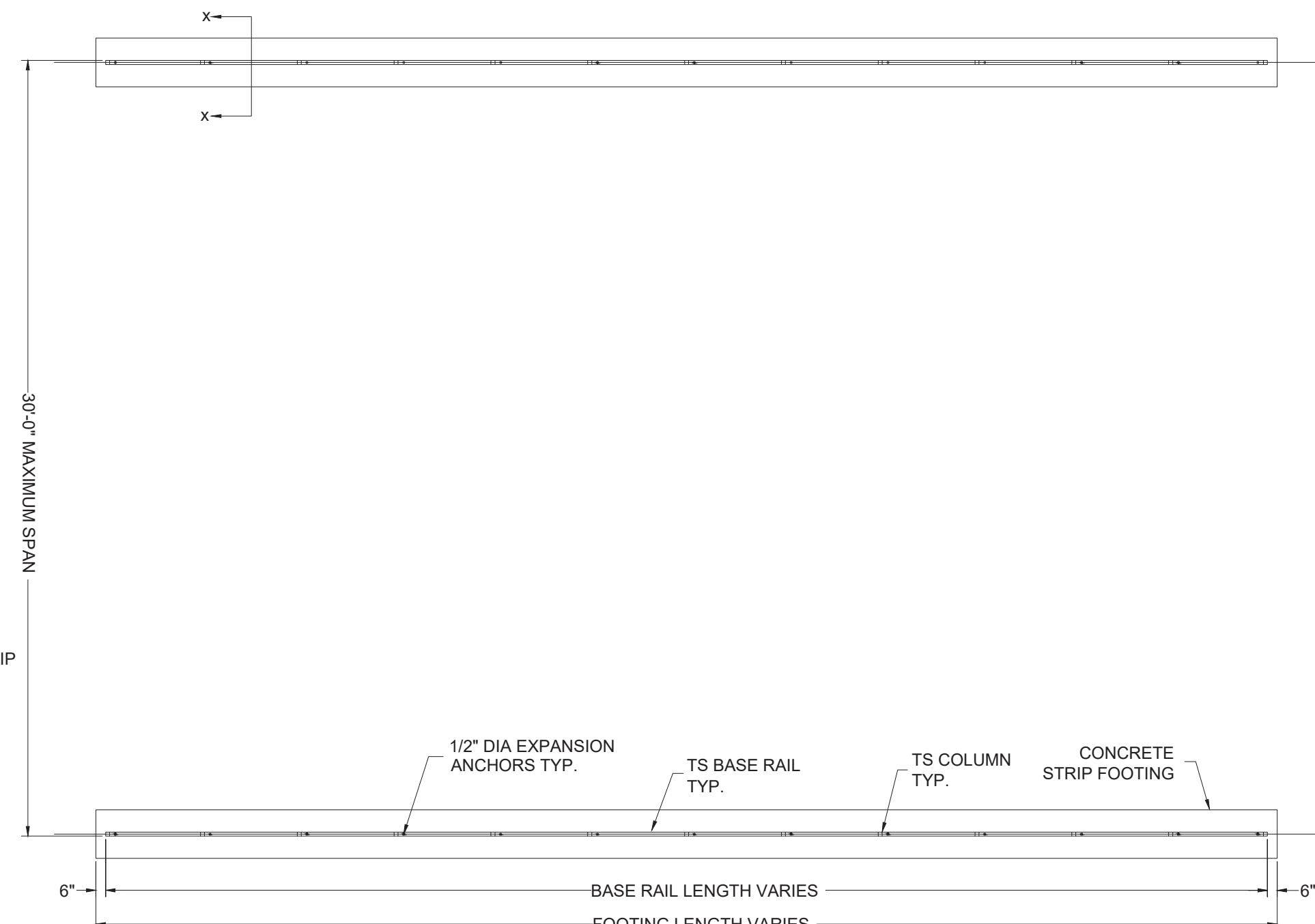
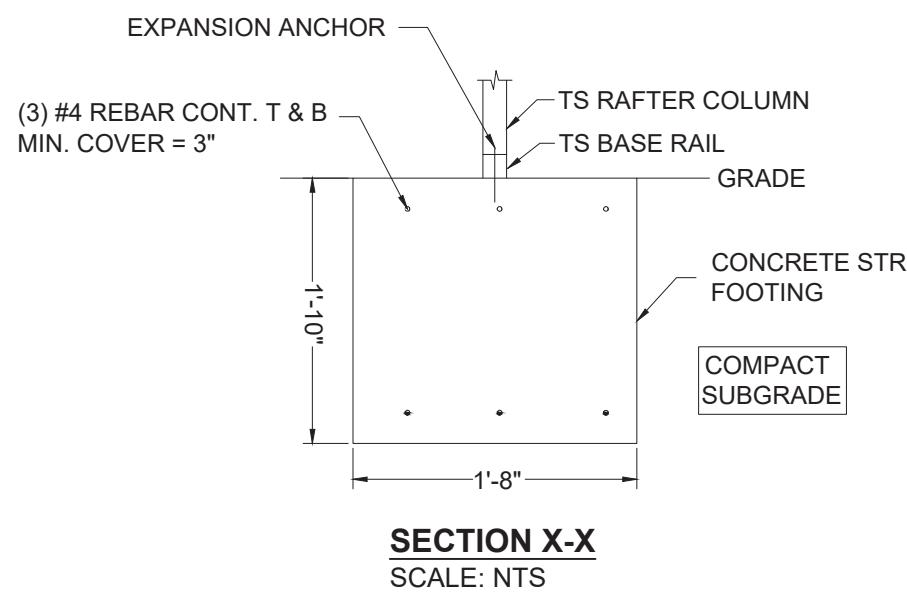
NO.	REVISIONS	DATE	DATE DRAWN	2025.11.03	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-11
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

GENERAL NOTES

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

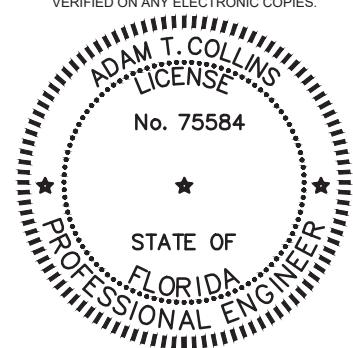
REINFORCING STEEL

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



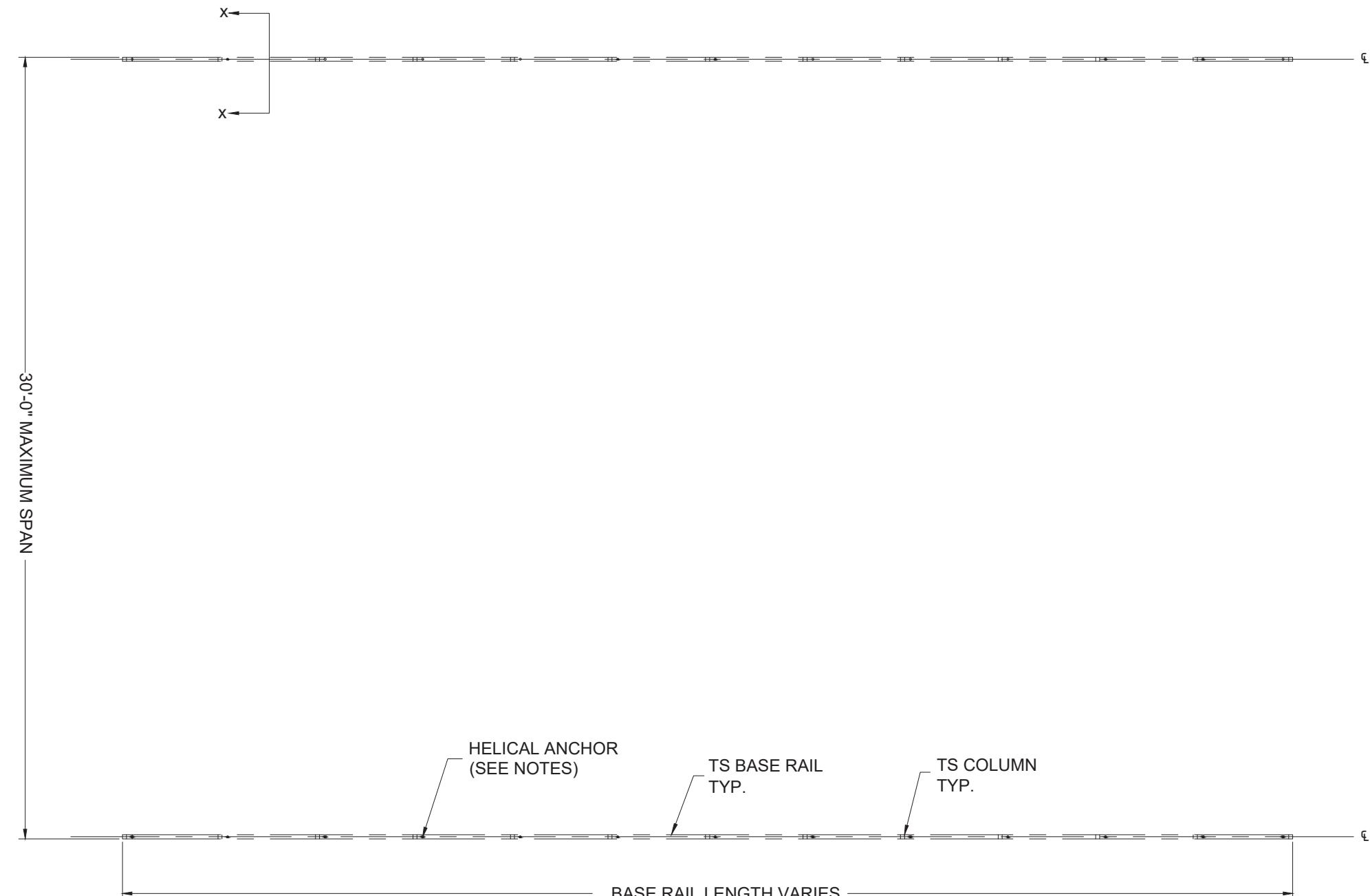
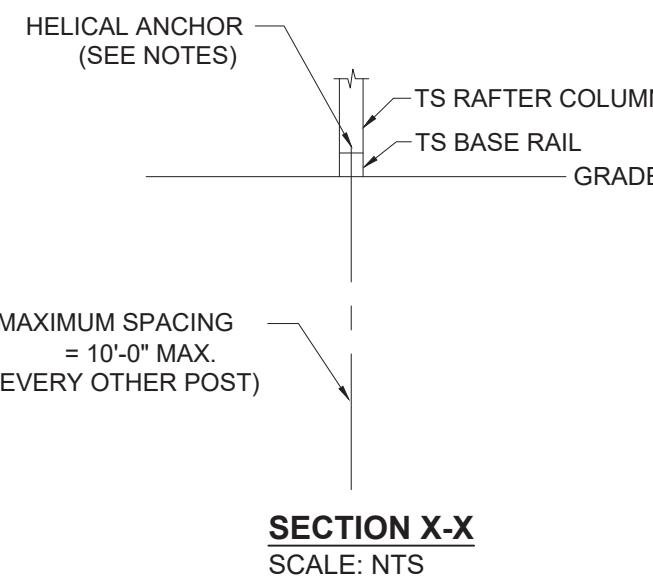
NO.	REVISIONS	DATE	DATE	DRAWN	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
		2025.11.03		SM			 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-12
				DESIGNED			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM			AS-SHOWN	
				CHECKED						SCALE	
				JOB No.							
				22047							

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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 50" 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,



NO.	REVISIONS	DATE	DATE	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
		2025.11.03				ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Mike Conlon 555 NW Scenic Lake Dr Lake City, FL 32055	S-13
		DRAWN SM								SCALE AS-SHOWN
		DESIGNED DMC								
		CHECKED ATC								
		JOB No.				CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				

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