

s:\ace dropbox\PROJECTS\elite-22047\Support\30-enclosed-building\Enclosed-Building-30.dwg, USER, 9/22/2023 1:08 PM

APPLICABLE CODES AND STANDARDS

1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
2. 2021 INTERNATIONAL BUILDING CODE
3. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
5. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
7. AWS D1.1: STRUCTURAL WELDING

INSTALLATION NOTES AND SPECIFICATIONS

1. ROOF PITCH SHALL NOT BE GREATER THAN 12H:4V
2. 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.

3.1. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.

3.2. 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"

4.2. 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:

5.1. MEAN ROOF HEIGHT OF 20'-0" OR LESS

5.2. ROOF SLOPES OF 18° (4:12 PITCH) OR LESS.

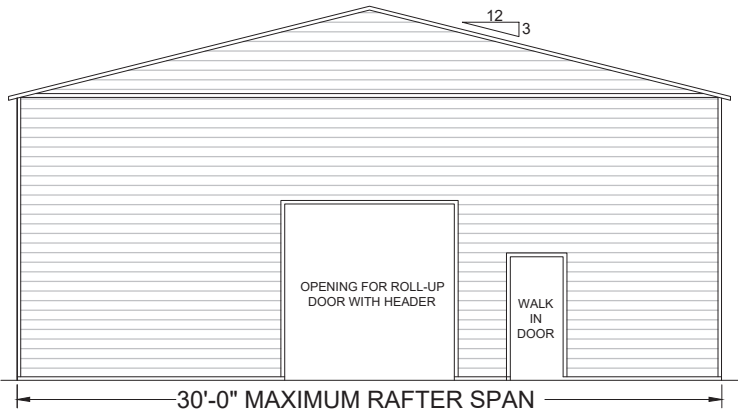
5.3. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
6. ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
7. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR WITH WELDED NUT x 30" LONG AND MAY BE USED IN SUITABLE SOILS.

7.1. 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.

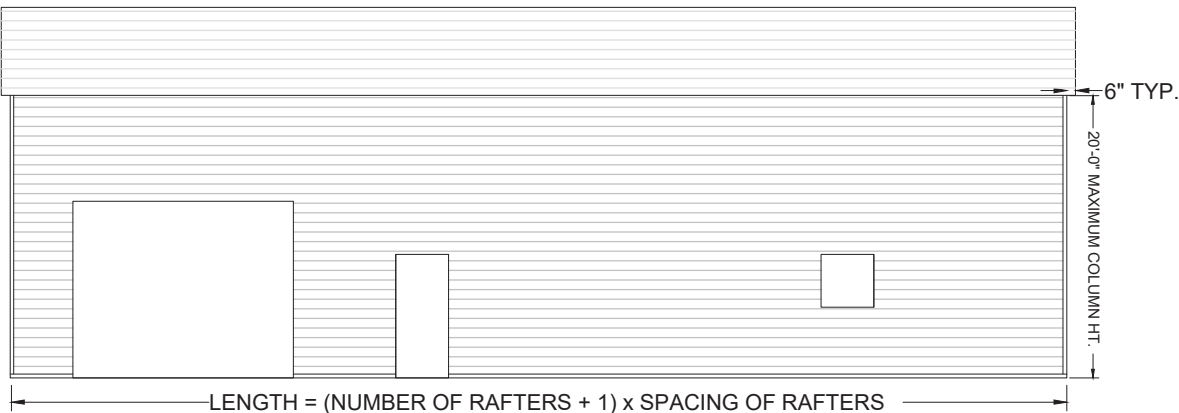
DESIGN LOADS

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

ENCLOSED METAL BUILDING DESIGN  
22FT WIDE X 50FT LONG X 10FT EAVE HT.



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. 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.

TABLE 2

MEMBER	PRODUCT APPROVAL NUMBER	MAX WIND DESIGN 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.

LEAN-TO INDEX

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

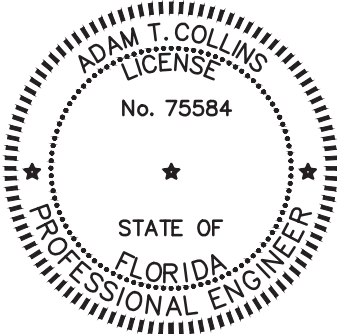
DRAWING INDEX

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

TABLE 3

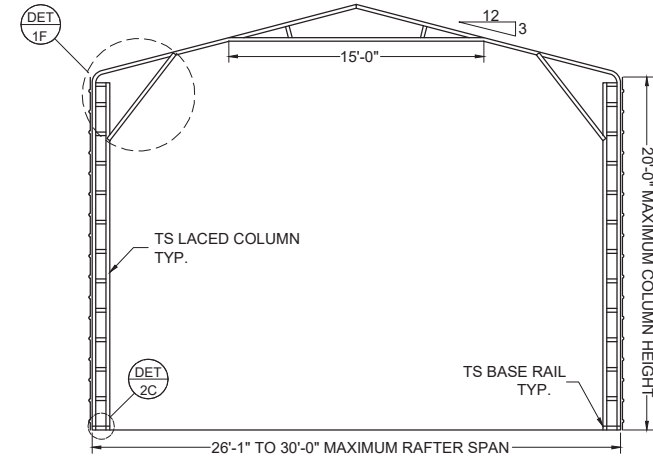
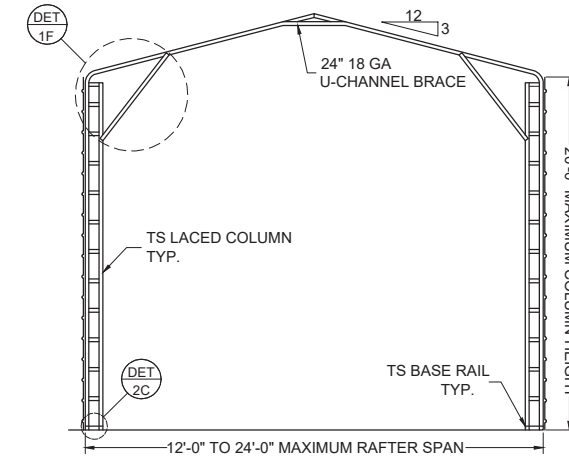
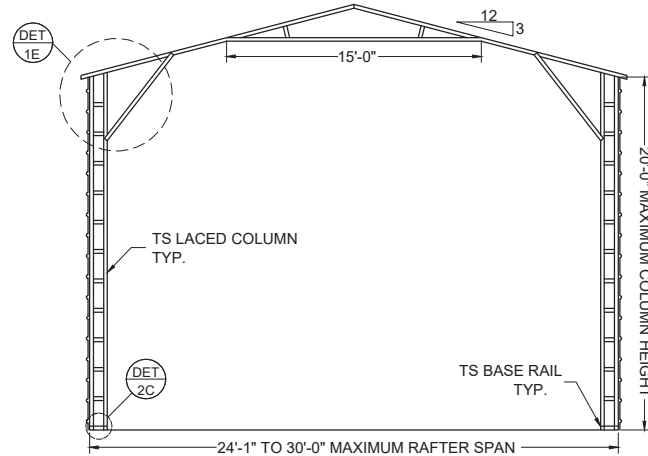
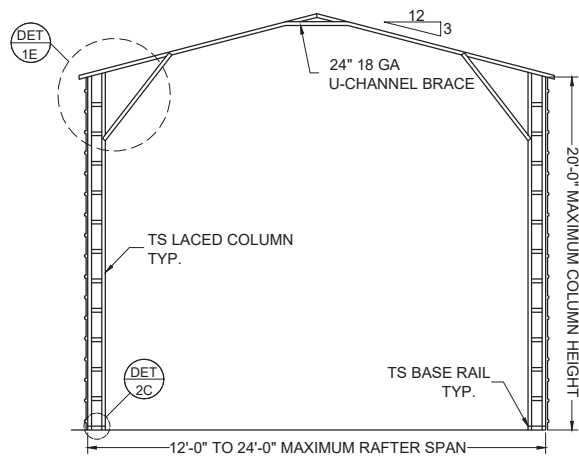
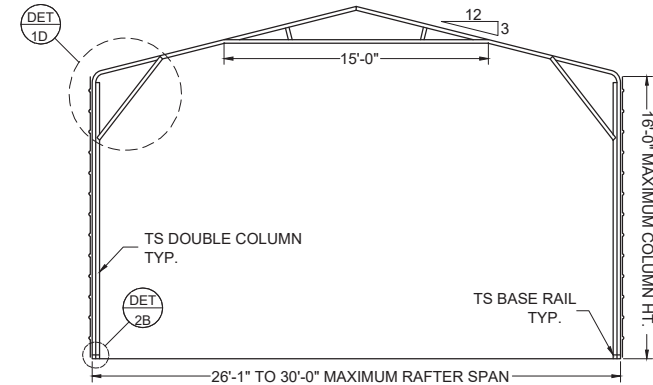
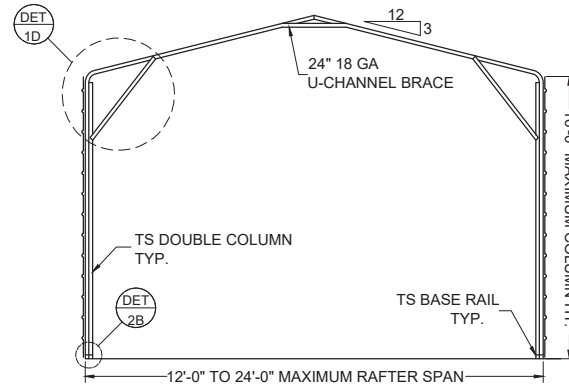
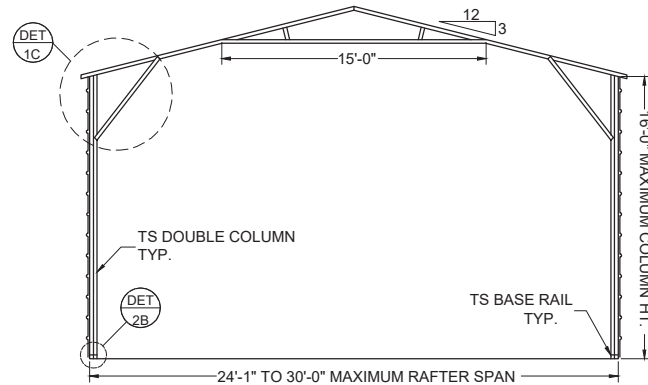
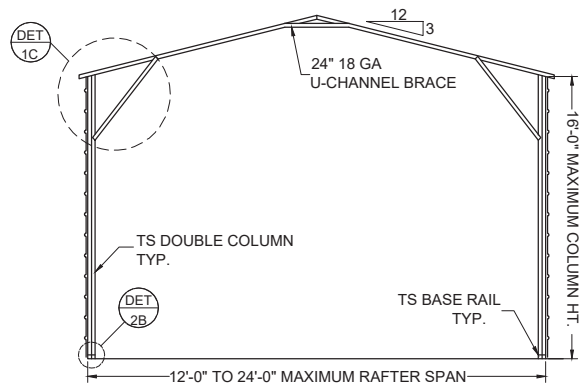
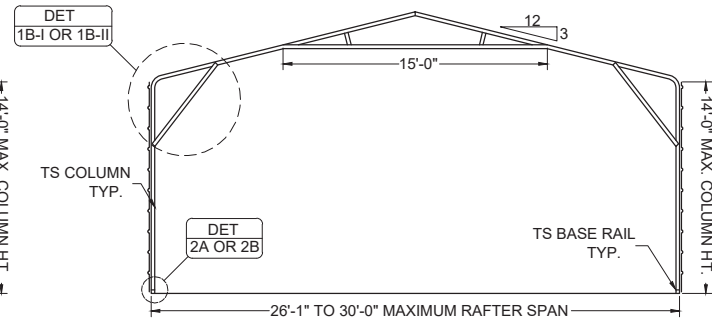
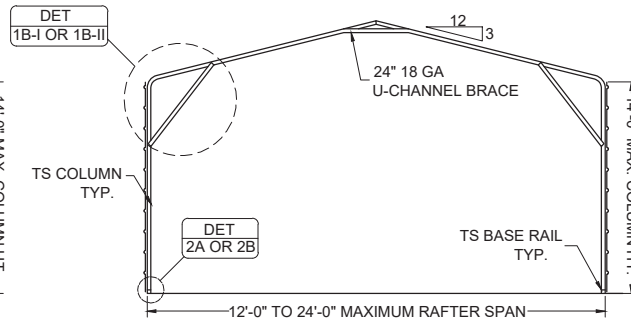
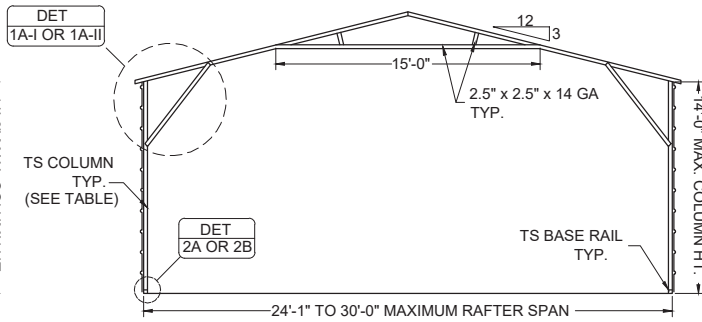
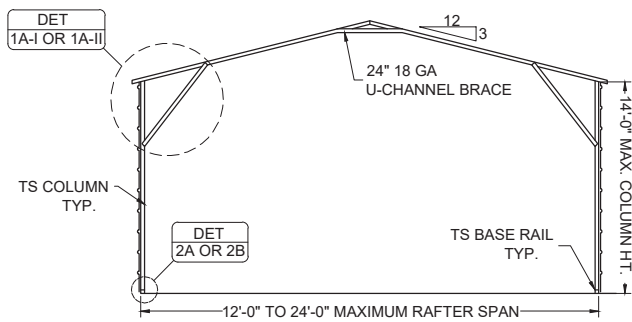
COMPONENTS AND CLADDING DESIGN PRESSURES MEAN ROOF HT 25 FT, EXPOSURE C (PSF)														
Zone	120		130		140		150		160		170		180	
	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
1	9.7	-20.7	11.5	-24.3	13.2	-28.2	15.3	-32.4	17.4	-36.9	19.6	-41.6	22.0	-46.6
2	9.7	-27.9	11.5	-32.8	13.2	-38.1	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

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND  
SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04 PRINTED  
COPIES OF THIS DOCUMENT ARE NOT CONSIDERED  
SIGNED AND SEALED AND THE SIGNATURE MUST BE  
VERIFIED ON ANY ELECTRONIC COPIES.



NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div>ADAM COLLINS ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	NOTES AND SPECIFICATIONS	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-1
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-302.dwg, USER, 12/12/2022 1:49 PM



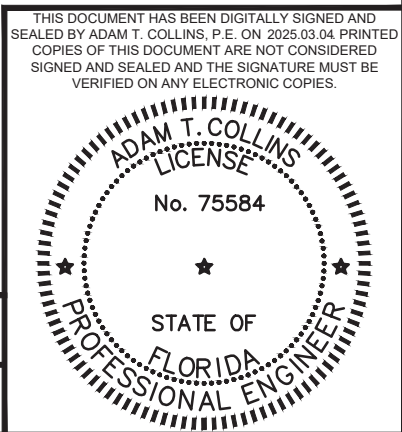
## BOX EAVE FRAME

SCALE: NTS

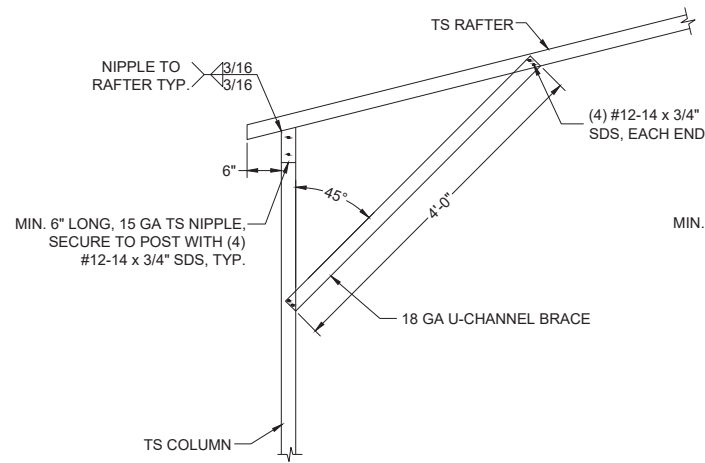
## BOW EAVE FRAME

SCALE: NTS

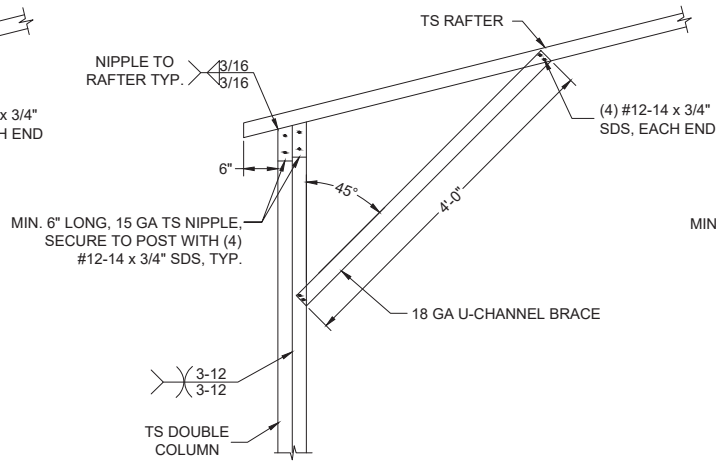
NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-2
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							



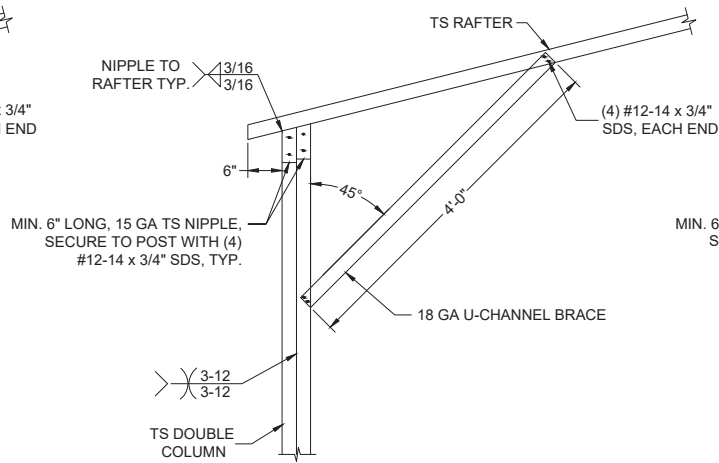
d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-30\3.dwg, USER, 12/12/2022 1:49 PM



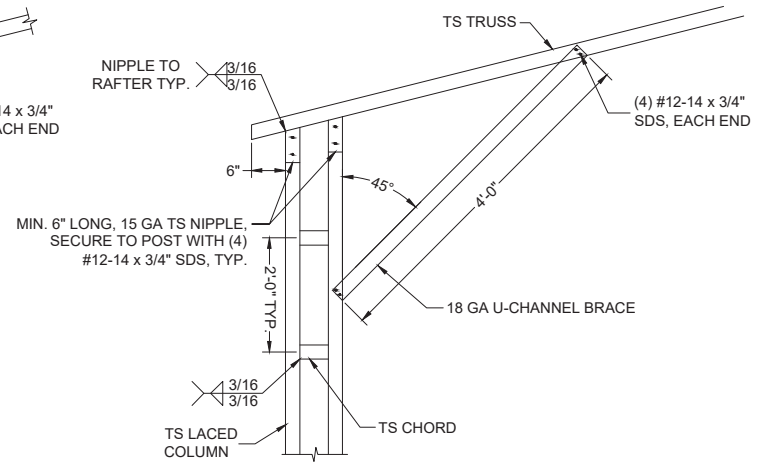
1A-I BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



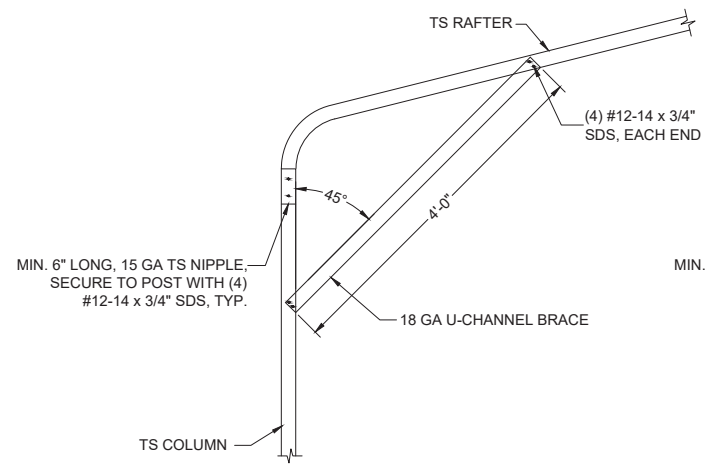
1A-II BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



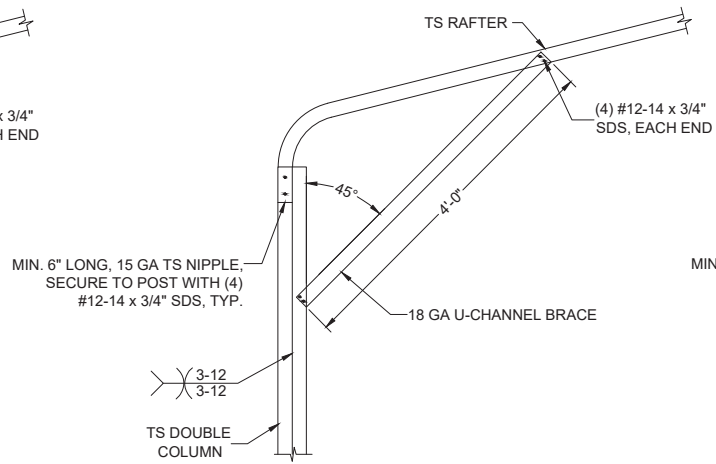
1C BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 16'H  
SCALE: NTS



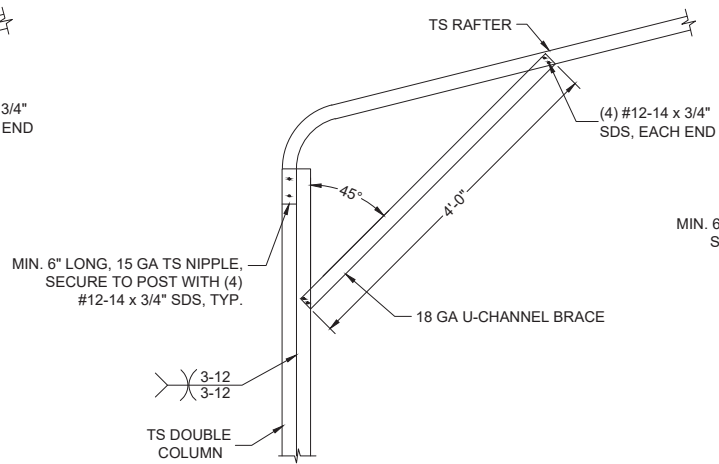
1E BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 20'H  
SCALE: NTS



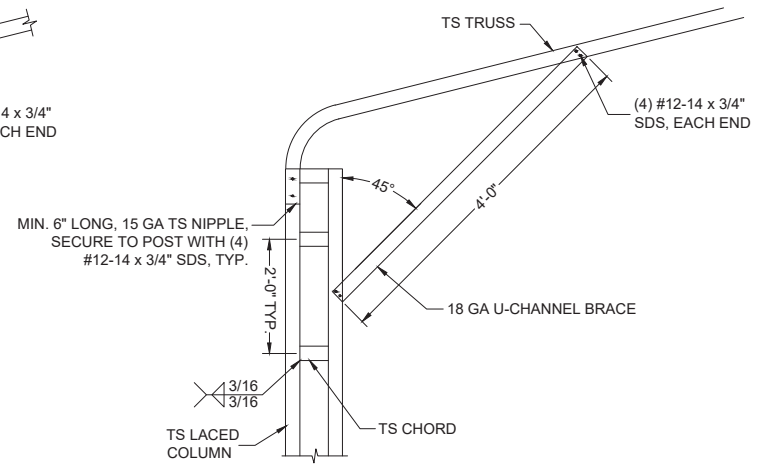
1B-I BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



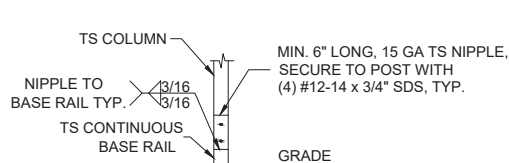
1B-II BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



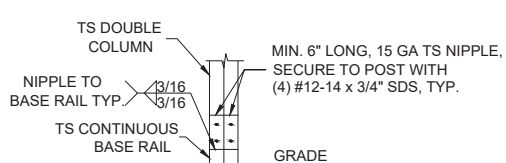
1D BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 16'H  
SCALE: NTS



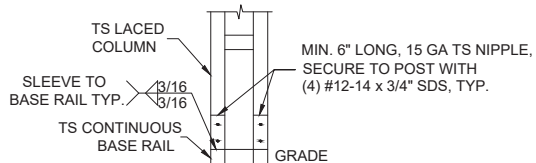
1F BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 20'H  
SCALE: NTS



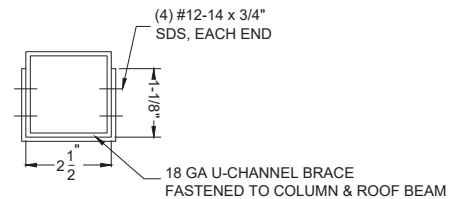
2A POST/BASE RAIL CONNECTION  
SCALE: NTS



2B POST/BASE RAIL CONNECTION  
SCALE: NTS

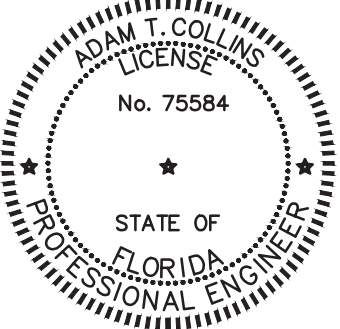


2C POST/BASE RAIL CONNECTION  
SCALE: NTS



BRACE SECTION  
SCALE: NTS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND  
SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED  
COPIES OF THIS DOCUMENT ARE NOT CONSIDERED  
SIGNED AND SEALED AND THE SIGNATURE MUST BE  
VERIFIED ON ANY ELECTRONIC COPIES.

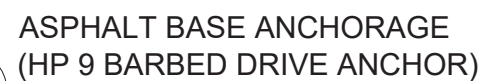


NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (1 OF 4)	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-3
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

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

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.

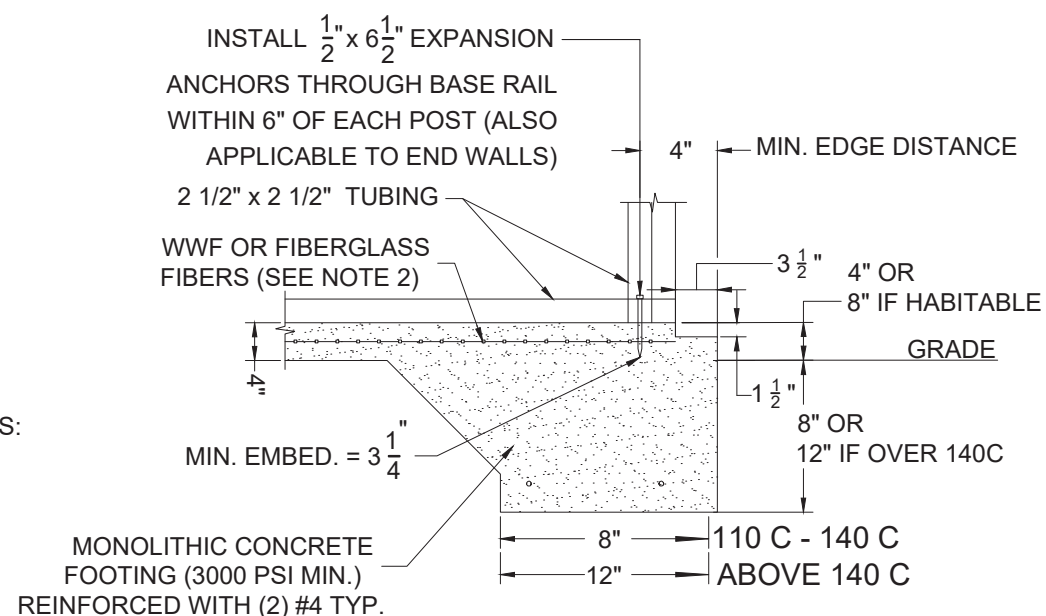
1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
  - 1.1. VERY DENSE AND/OR CEMENTED SANDS
  - 1.2. COARSE GRAVEL AND COBBLES
  - 1.3. CALICHE
  - 1.4. PRELOADED SILTS AND CLAYS
  - 1.5. CORALS
  - 1.6. MEDIUM DENSE COARSE SANDS
  - 1.7. SANDY GRAVEL
  - 1.8. VERY STIFF SILTS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



3C

SCALE: NTS

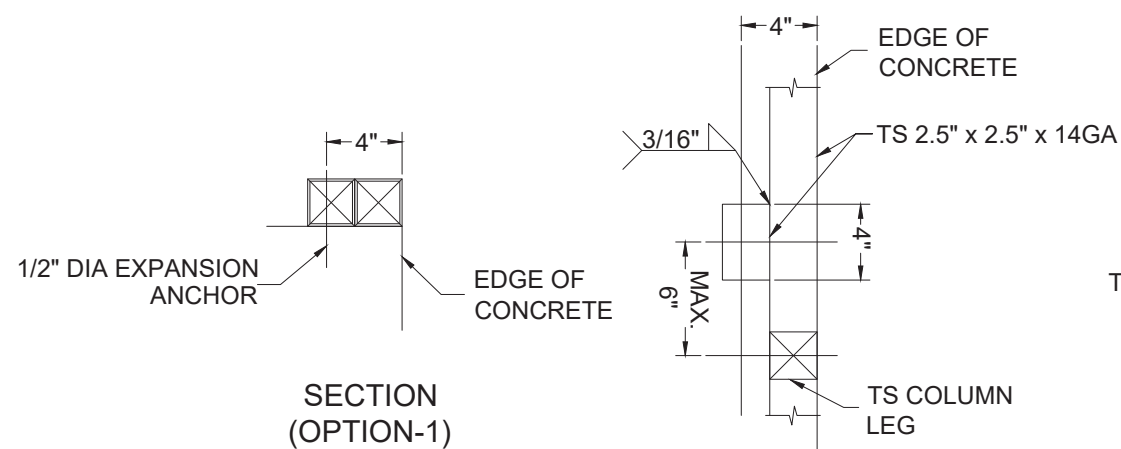
MONOLITHIC FOOTER SIZE	
110 C - 140 C	8" x 12" - (2) #4
ABOVE 140 C	12" x 16" - (2) #4



## CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

3A

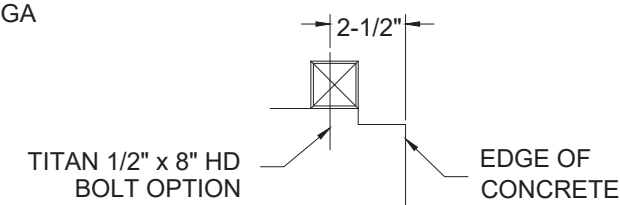
SCALE: NTS



TOP VIEW  
(OPTION-1)

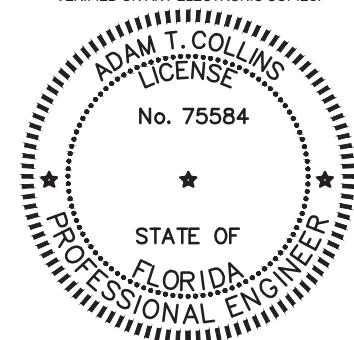
TYPICAL ANCHOR DETAIL WHEN BASE  
RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



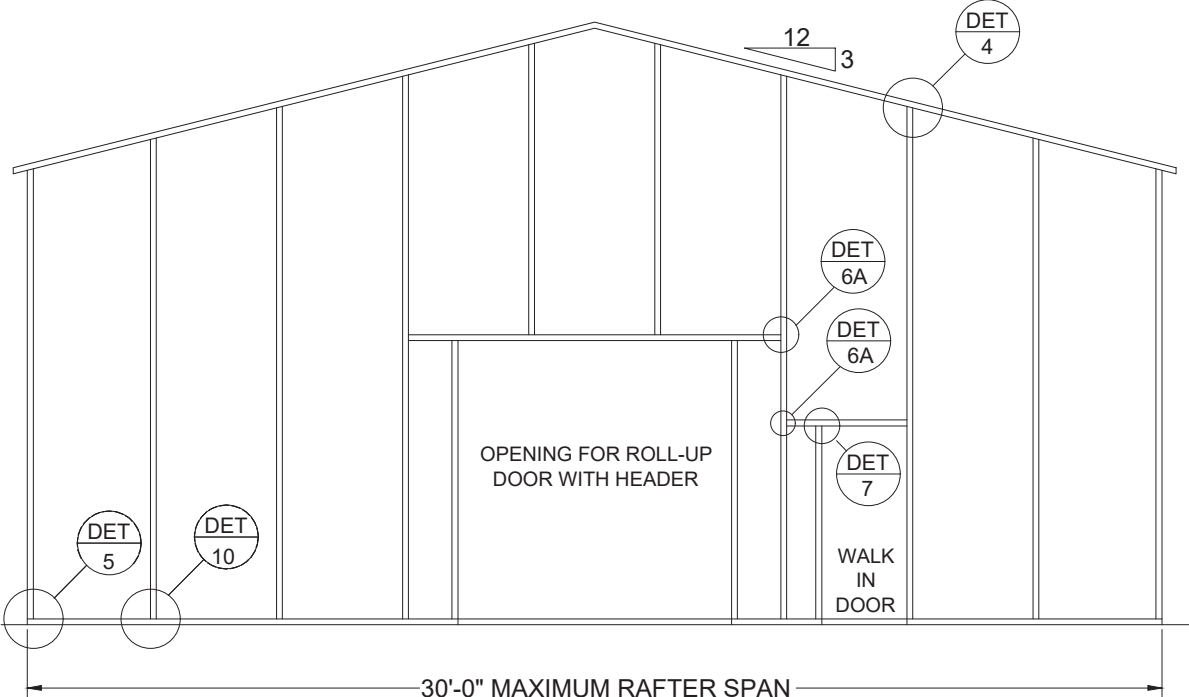
SECTION  
(OPTION-2)

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND  
SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED  
COPIES OF THIS DOCUMENT ARE NOT CONSIDERED  
SIGNED AND SEALED AND THE SIGNATURE MUST BE  
VERIFIED ON ANY ELECTRONIC COPIES.



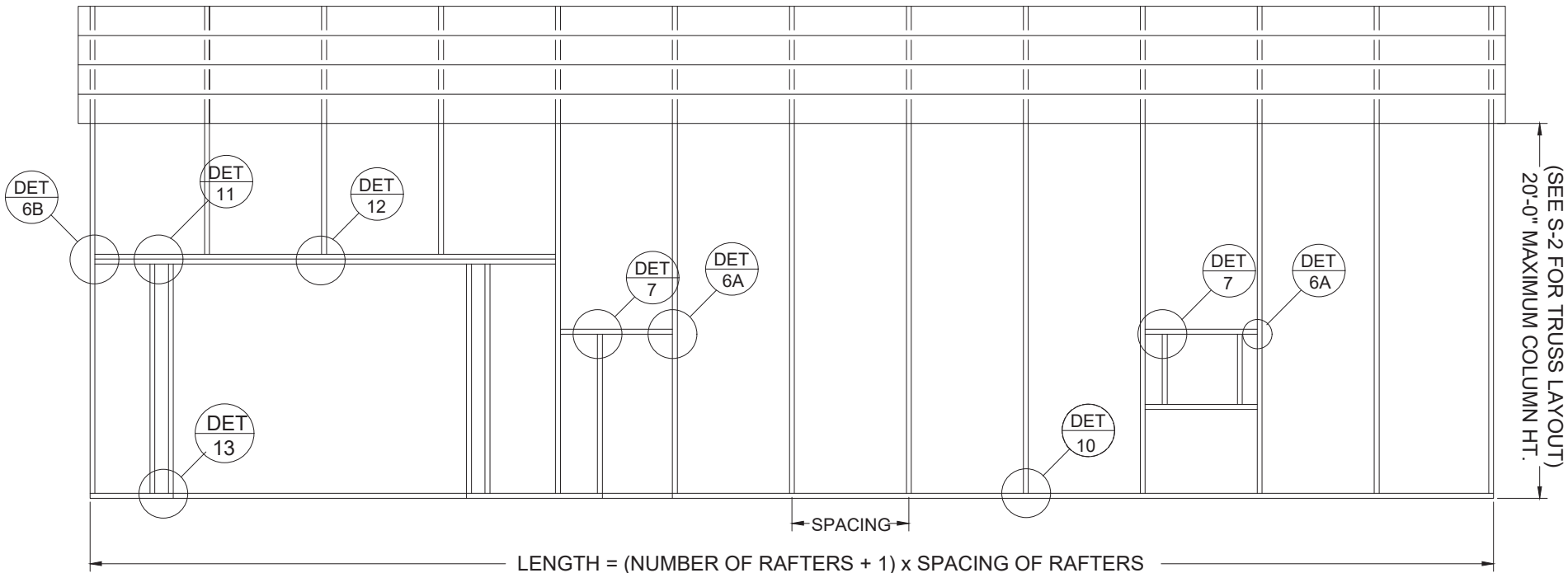
NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. <small>CA# 31728 - P: 386.320.7400 - WWW.COLLINSENG.COM</small>	ELITE METAL MANUFACTURING 10121 88TH TRACE	BASE RAIL AND ANCHORAGE DETAILS	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-4
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							





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



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

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-3015.dwg, USER, 12/12/2022 1:49 PM

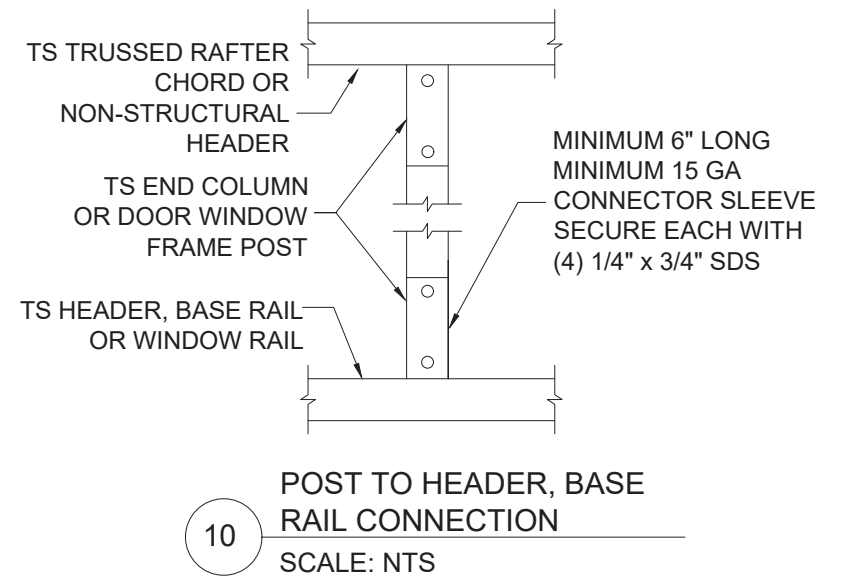
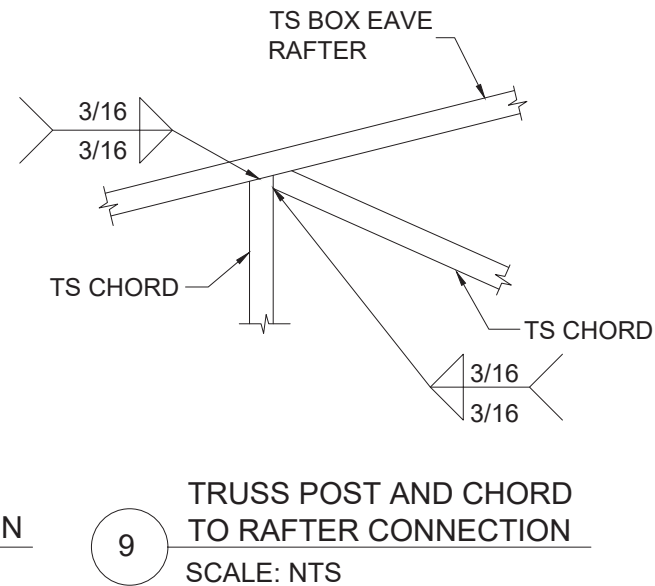
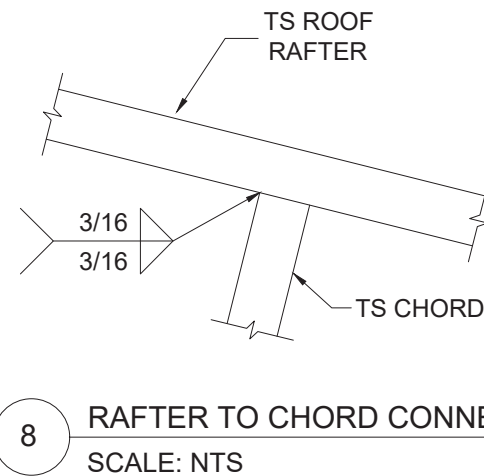
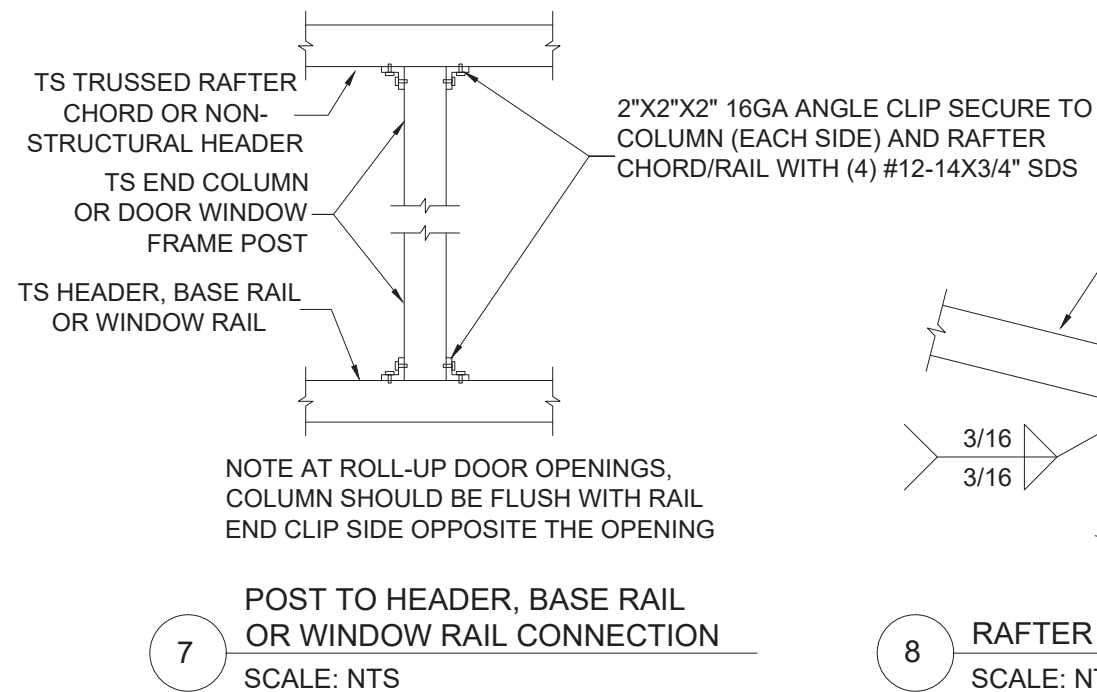
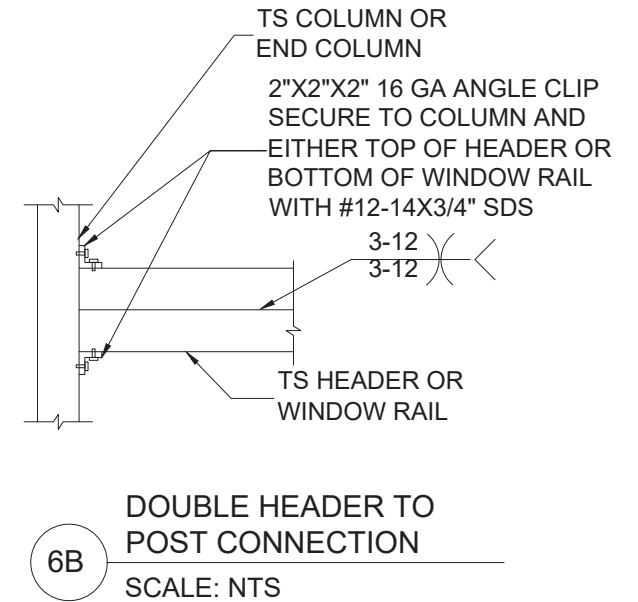
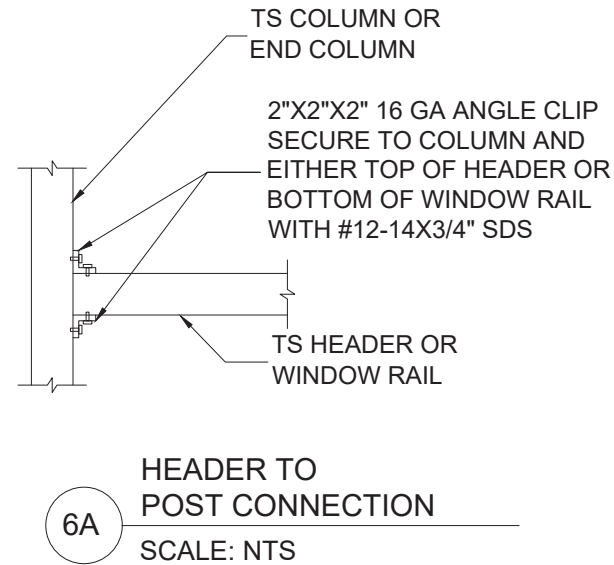
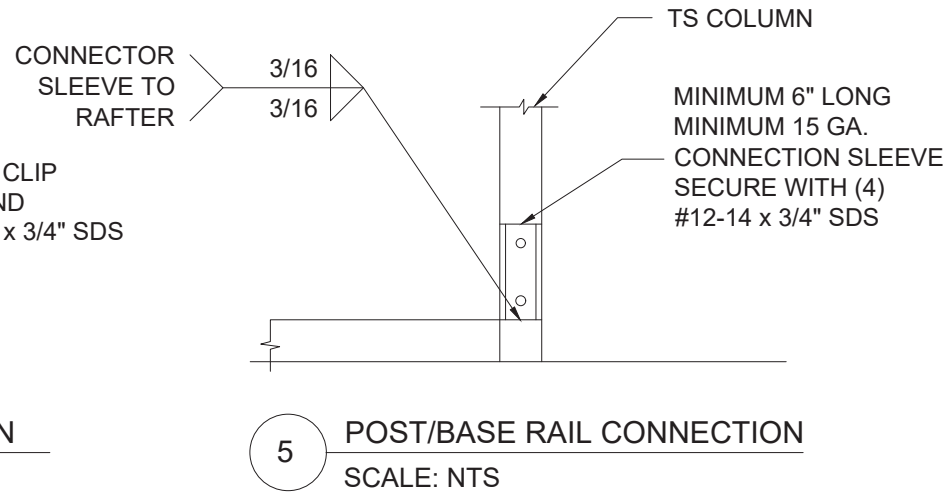
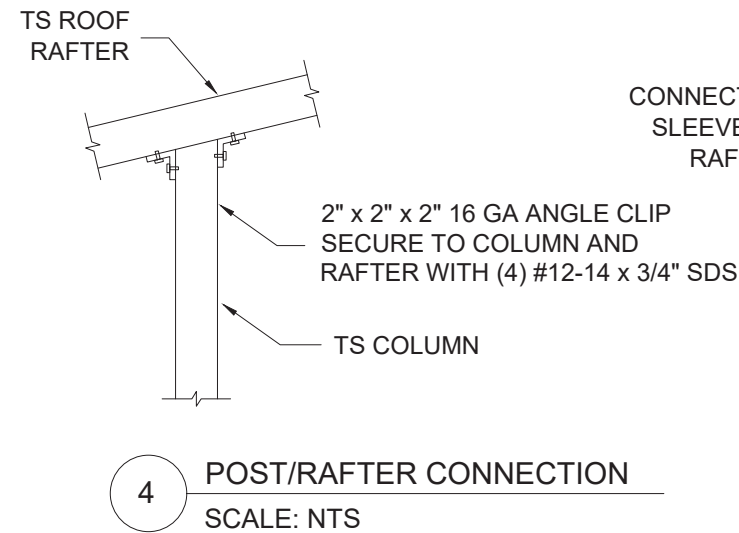
NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div>ADAM COLLINS ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-5
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND  
SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED  
COPIES OF THIS DOCUMENT ARE NOT CONSIDERED  
SIGNED AND SEALED AND THE SIGNATURE MUST BE  
VERIFIED ON ANY ELECTRONIC COPIES.

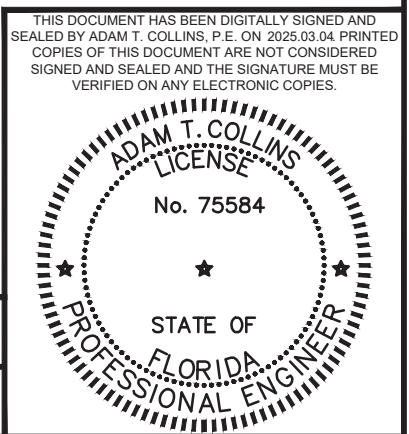
ADAM T. COLLINS  
LICENSE  
No. 75584

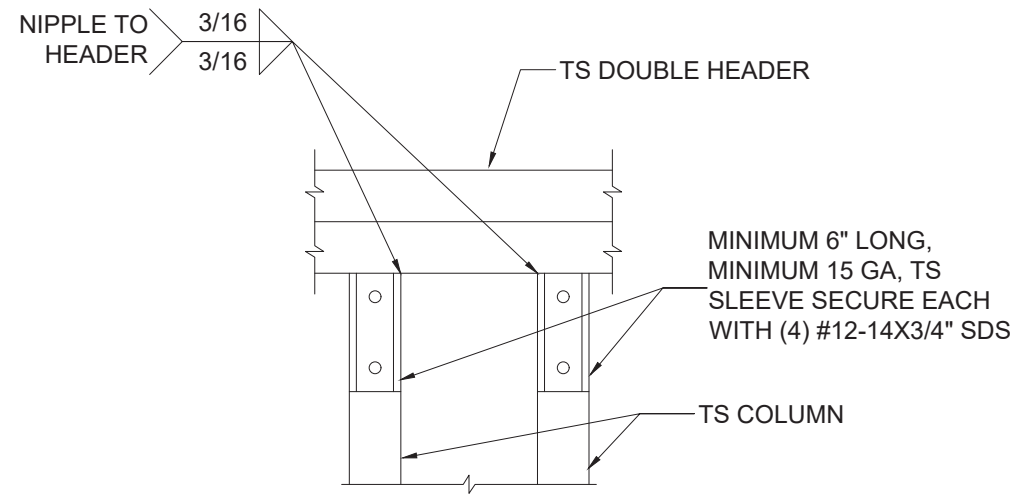
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-3016.dwg, USER, 12/12/2022 1:49 PM

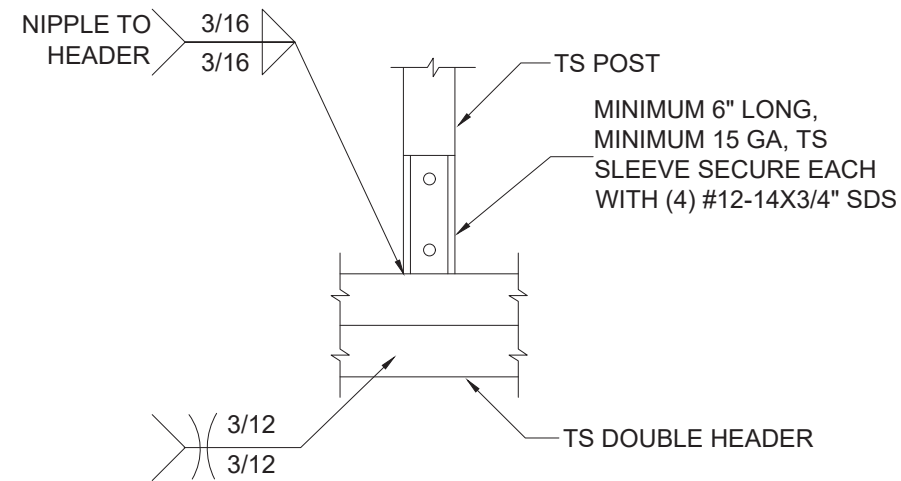


NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-6
		DESIGNED	DMC			SCALE					
		CHECKED	ATC			AS-SHOWN					
		JOB No.	22047								

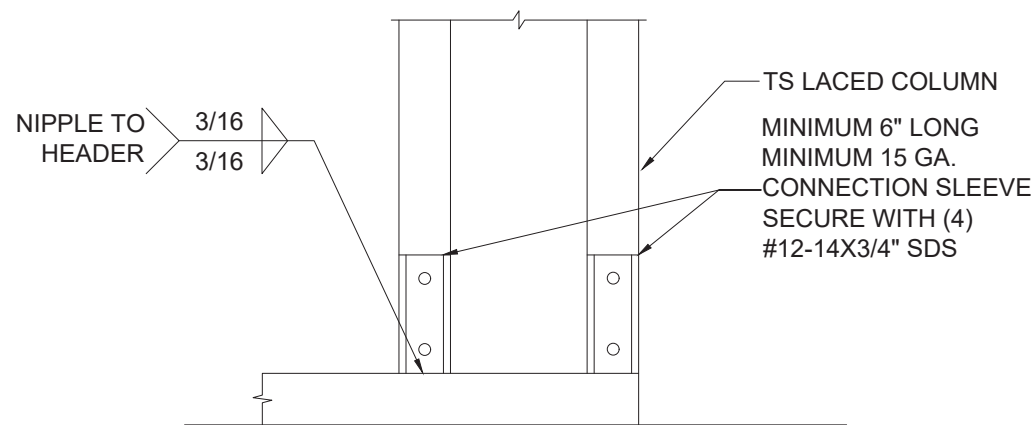




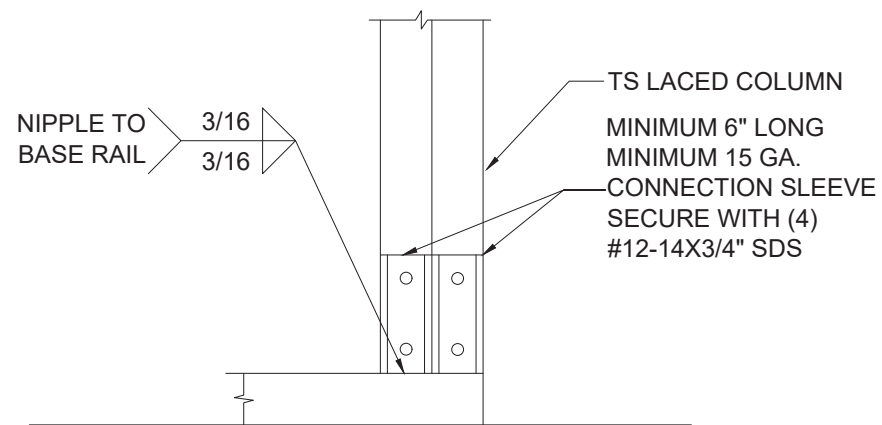
11 DOUBLE HEADER TO POST CONNECTION  
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION  
SCALE: NTS



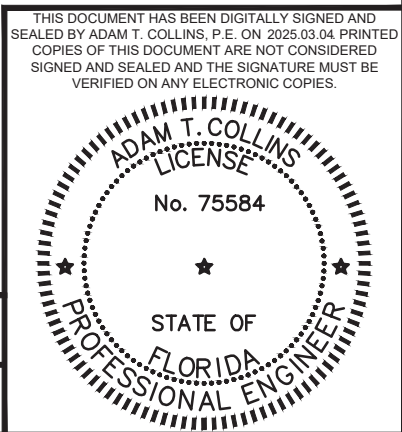
13A POST/BASE RAIL CONNECTION  
SCALE: NTS

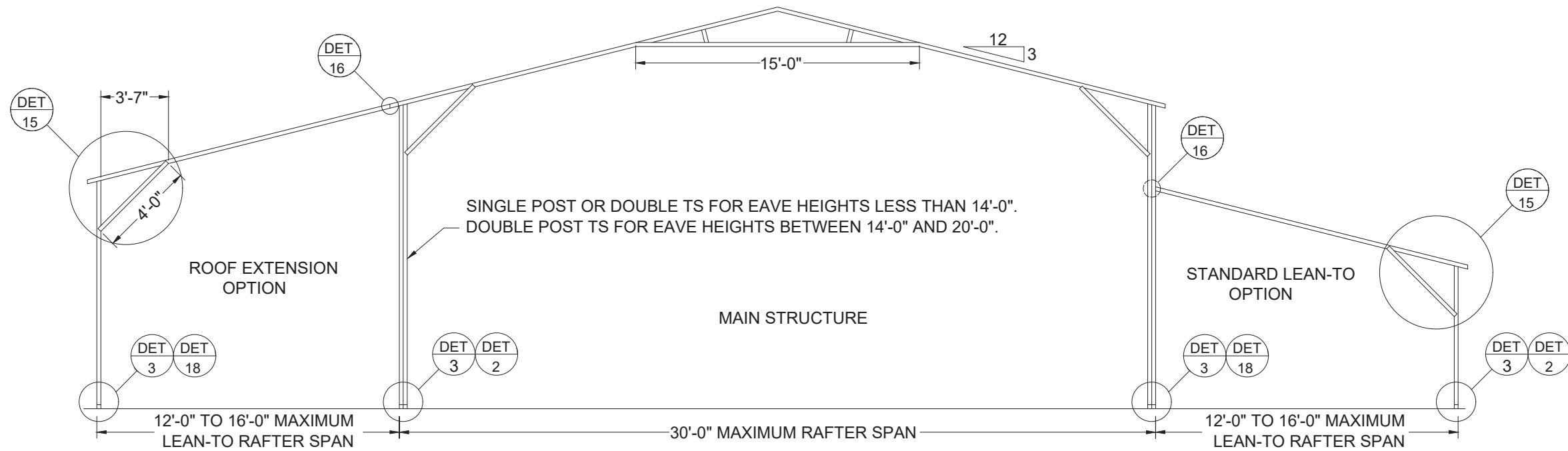


13B POST/BASE RAIL CONNECTION  
SCALE: NTS

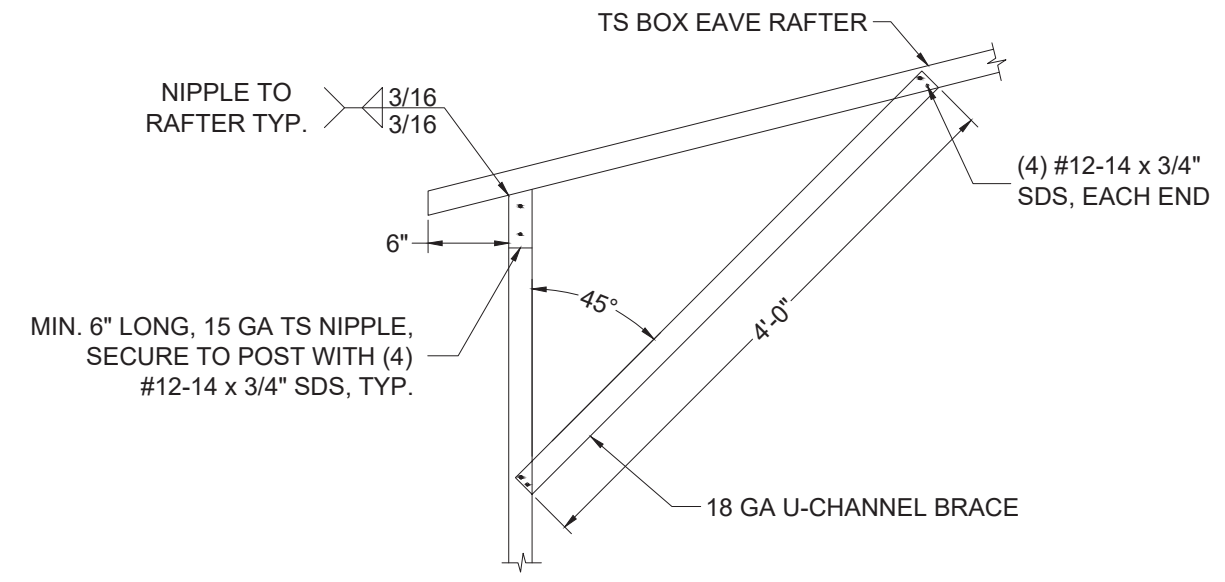
d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-3017.dwg, USER, 12/12/2022 1:49 PM

NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div> <b>ADAM COLLINS</b> ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (3 OF 4)	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-7
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							





**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION**  
SCALE: NTS

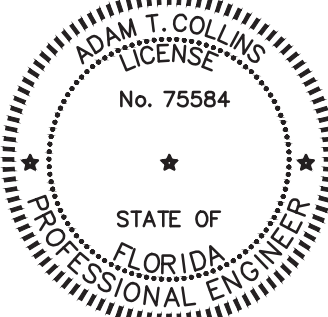


**LEAN-TO RAFTER/CORNER POST CONNECTION**  
SCALE: NTS

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-3018.dwg, USER, 12/12/2022 1:50 PM

NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER LEAN TO OPTIONS	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-8
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

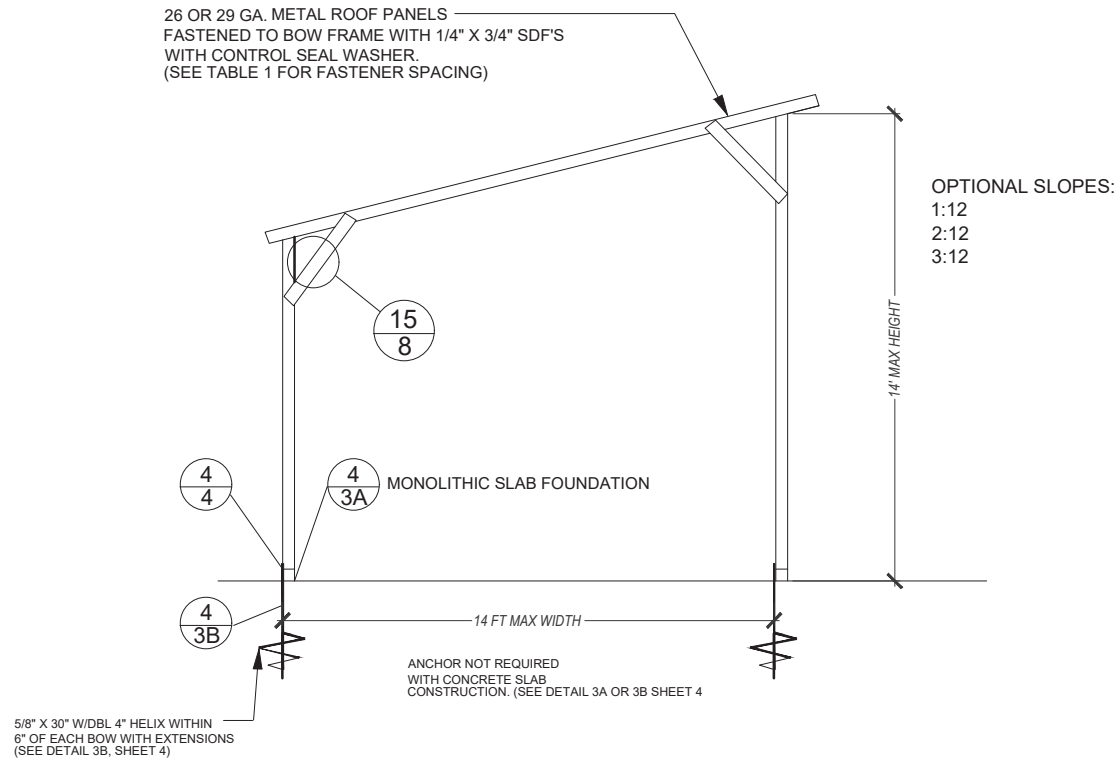
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



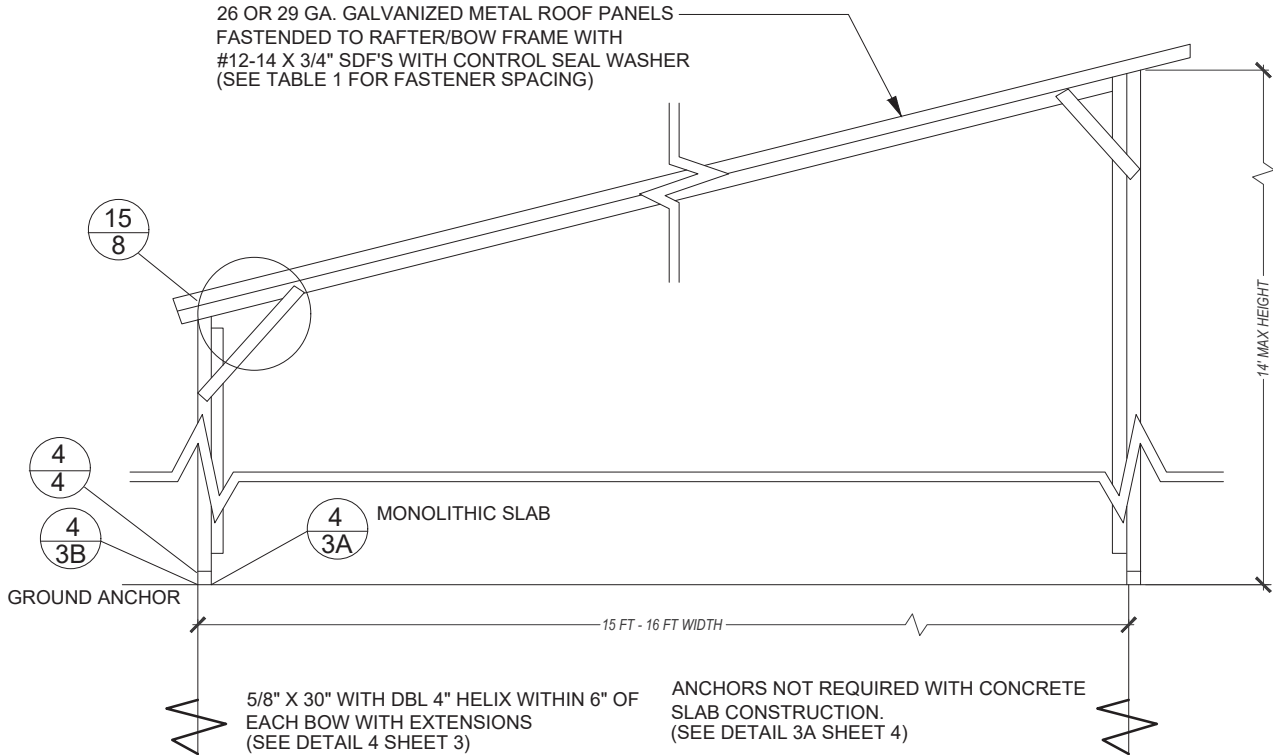
ADAM T. COLLINS  
LICENSE  
No. 75584  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER



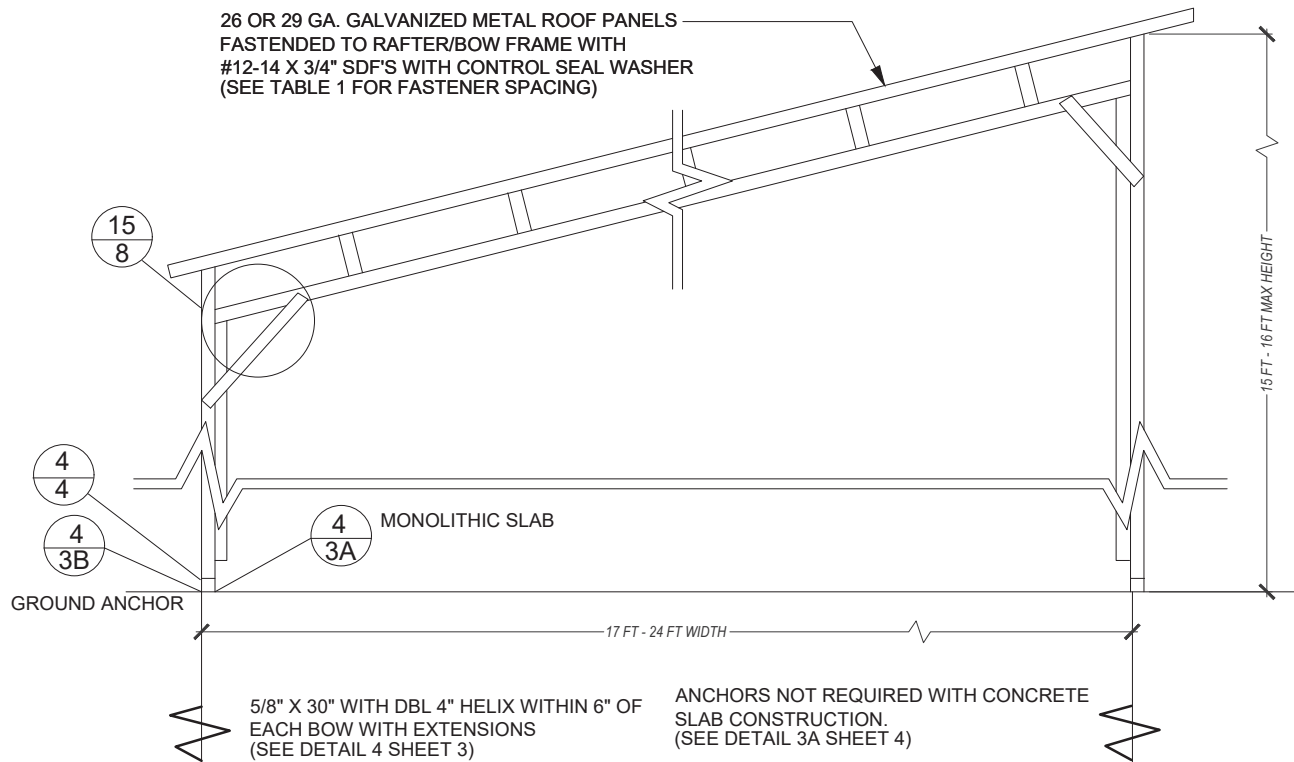
s:\ace dropbox\PROJECTS\elite-22047\support\30-enclosed-building\Enclosed-Building-30.dwg USER: 9/22/2023 12:37 PM



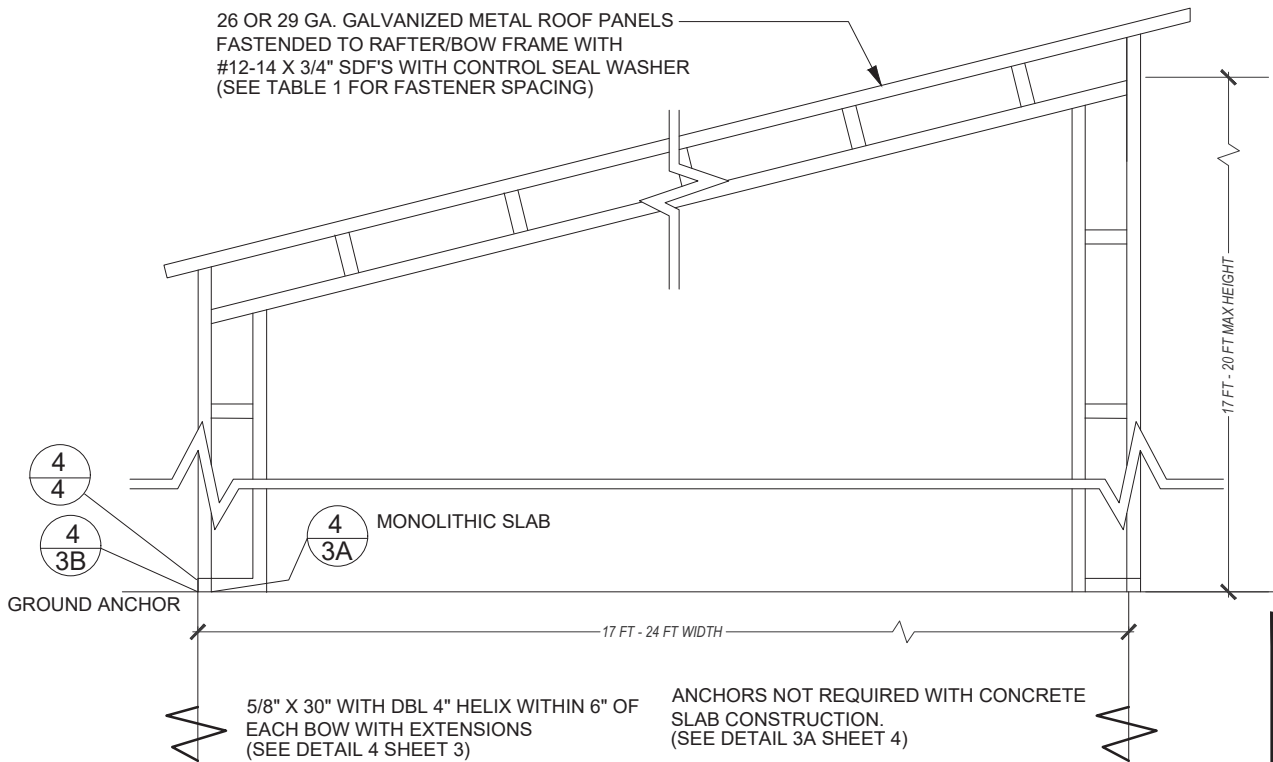
**14 FT MAX WIDTH FREESTANDING LEAN-TO**  
SCALE: NTS



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

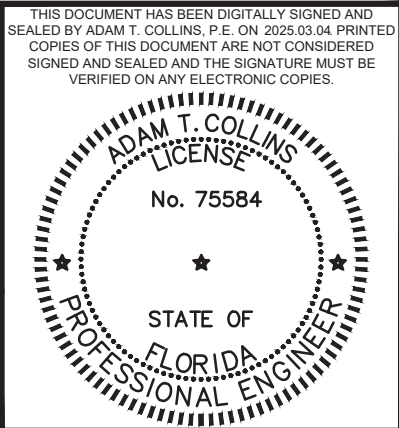


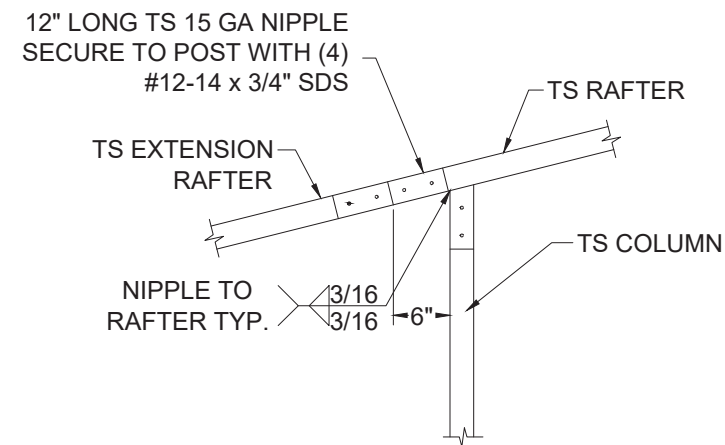
**17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS



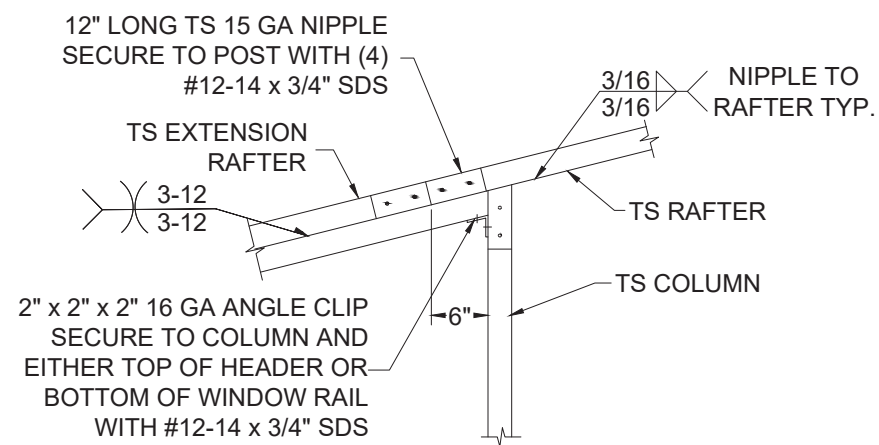
**17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS

NO.	REVISIONS	DATE	DATE	#	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-9
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

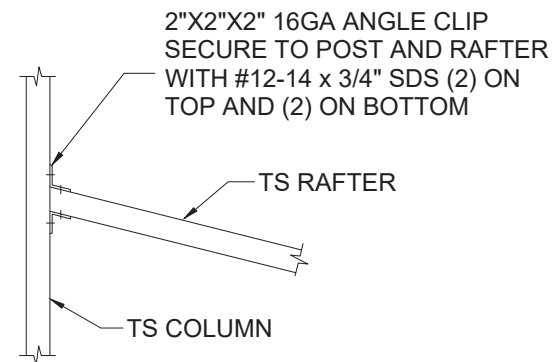




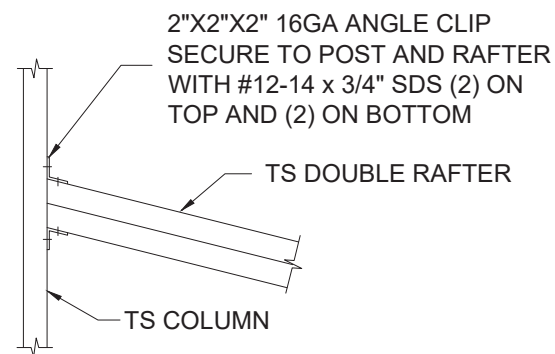
16A SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN LESS THAN 12'-0"  
SCALE: NTS



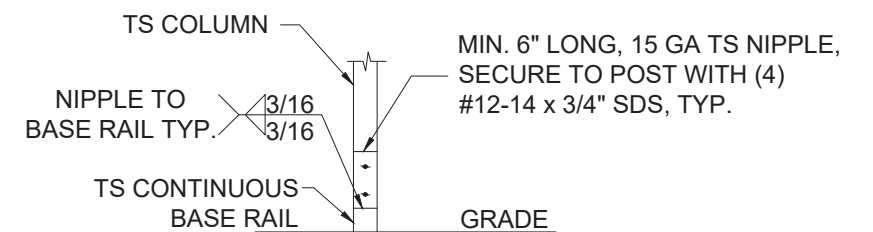
16B SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



17B LEAN TO RAFTER/COLUMN CONNECTION  
RAFTER SPAN LESS THAN 12'-0"  
SCALE: NTS



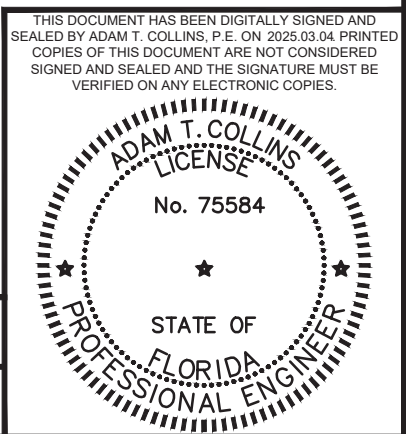
17B LEAN TO RAFTER/COLUMN CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



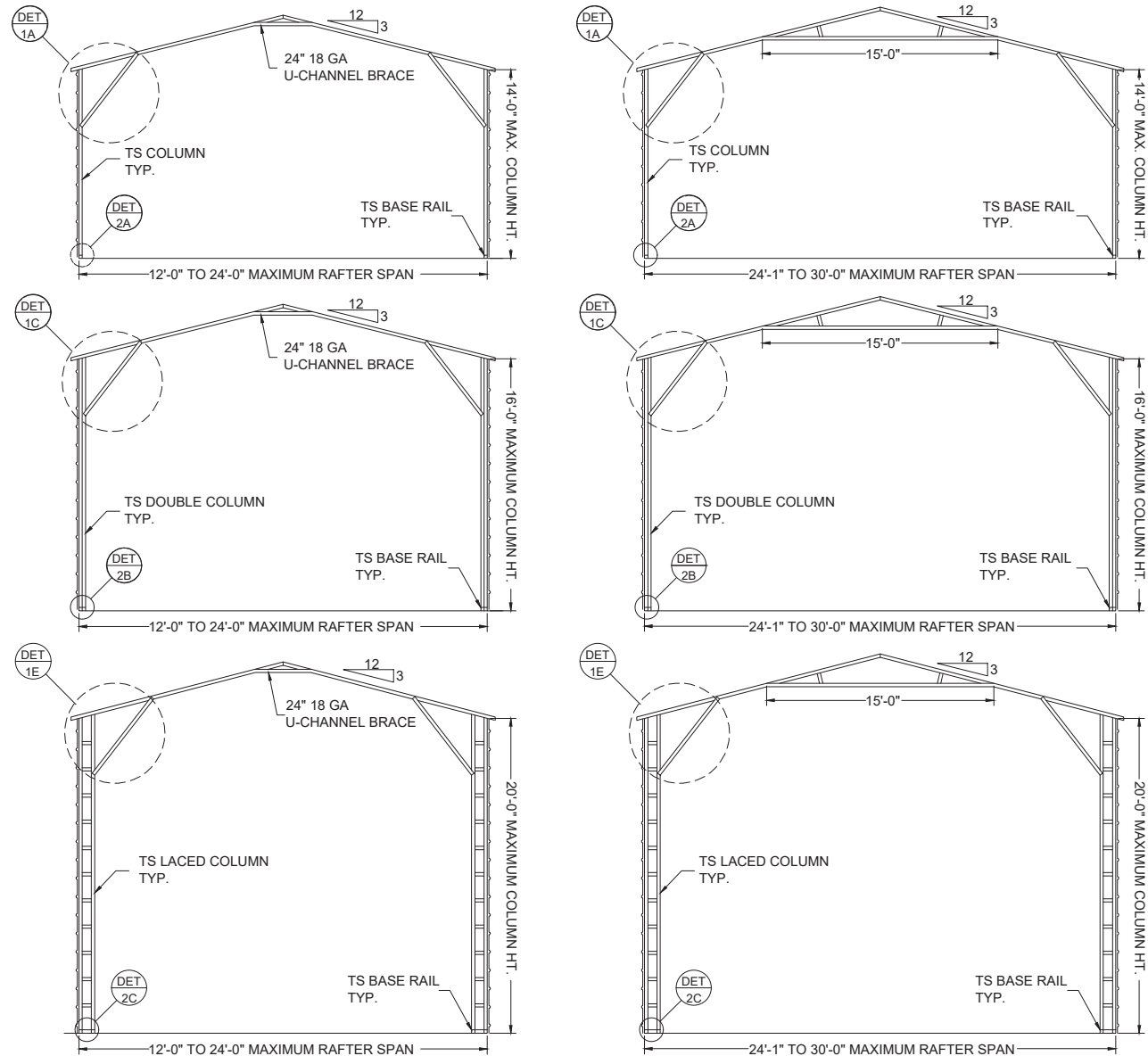
18 LEAN-TO POST CONNECTION  
SCALE: NTS

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-3019.dwg, USER, 12/12/2022 1:50 PM

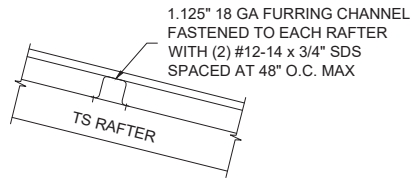
NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <div>ADAM COLLINS ENGINEERING INC.</div> CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (4 OF 4)	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-10
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							



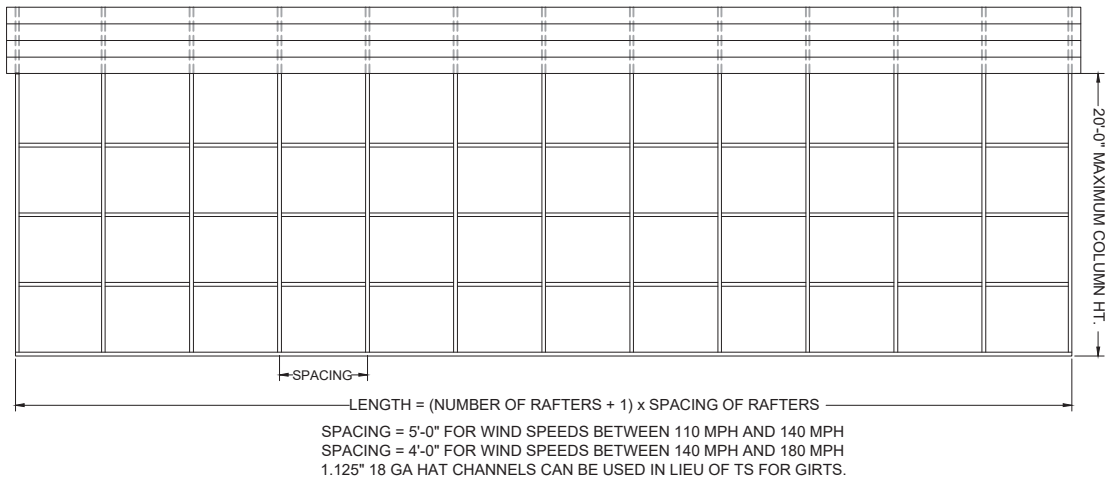
d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-30\10.dwg, USER, 12/12/2022 1:50 PM



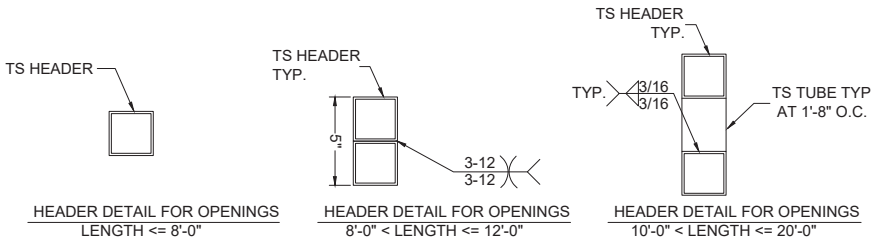
**BOX EAVE FRAME**  
SCALE: NTS



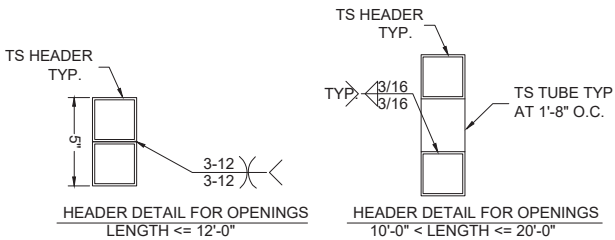
**PANEL ATTACHMENT**  
(ALTERNATE FOR VERTICAL ROOF PANELS)  
SCALE: NTS



**TYPICAL SIDE FRAME SECTION**  
SCALE: NTS

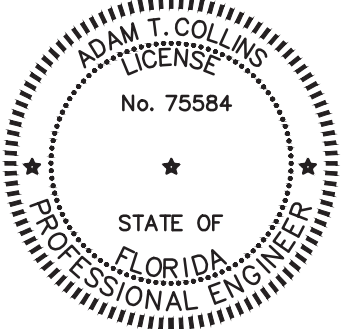


**SIDE WALL OPTION HEADER**  
SCALE: NTS



**END WALL OPTION HEADER**  
SCALE: NTS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND  
SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED  
COPIES OF THIS DOCUMENT ARE NOT CONSIDERED  
SIGNED AND SEALED AND THE SIGNATURE MUST BE  
VERIFIED ON ANY ELECTRONIC COPIES.



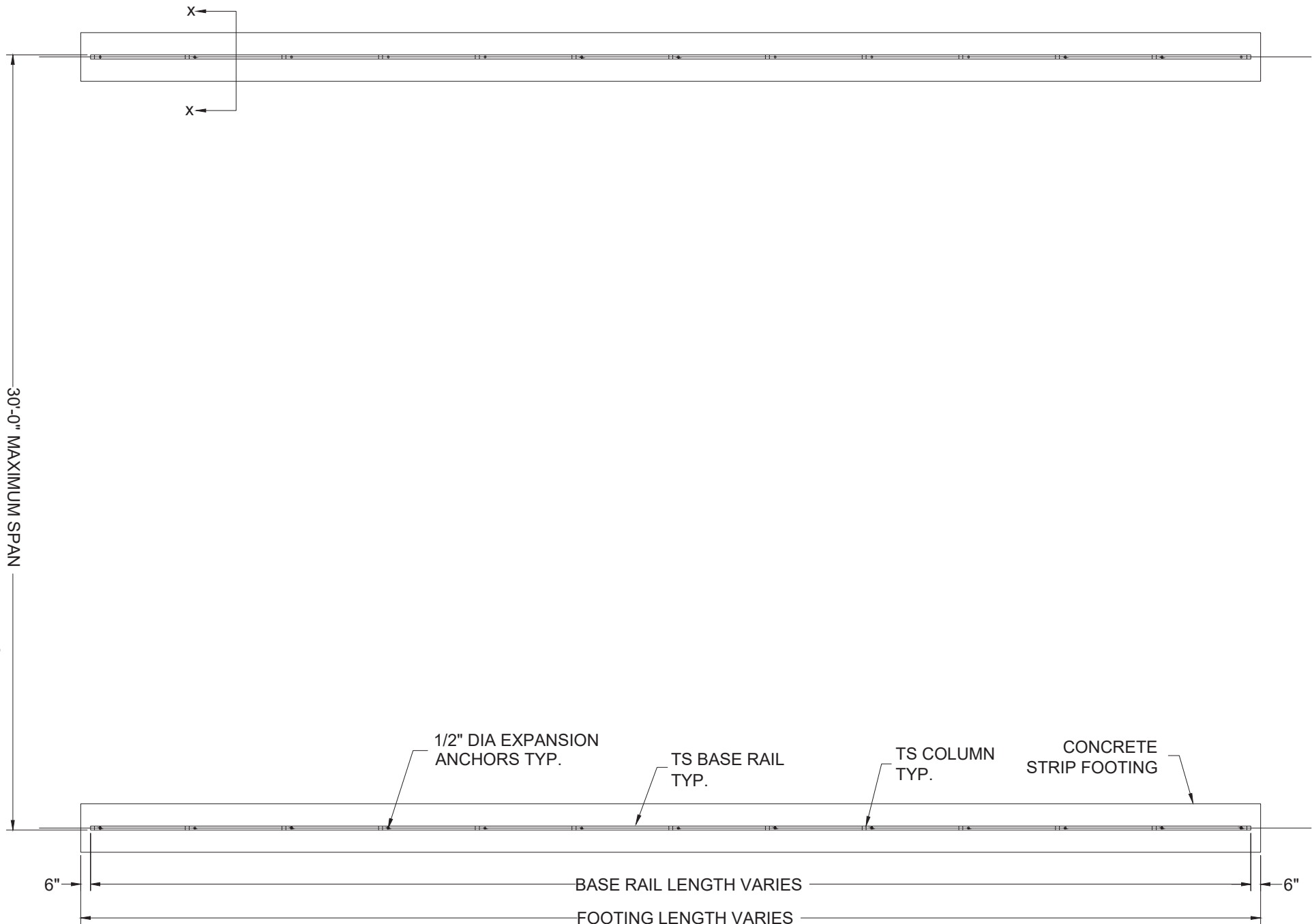
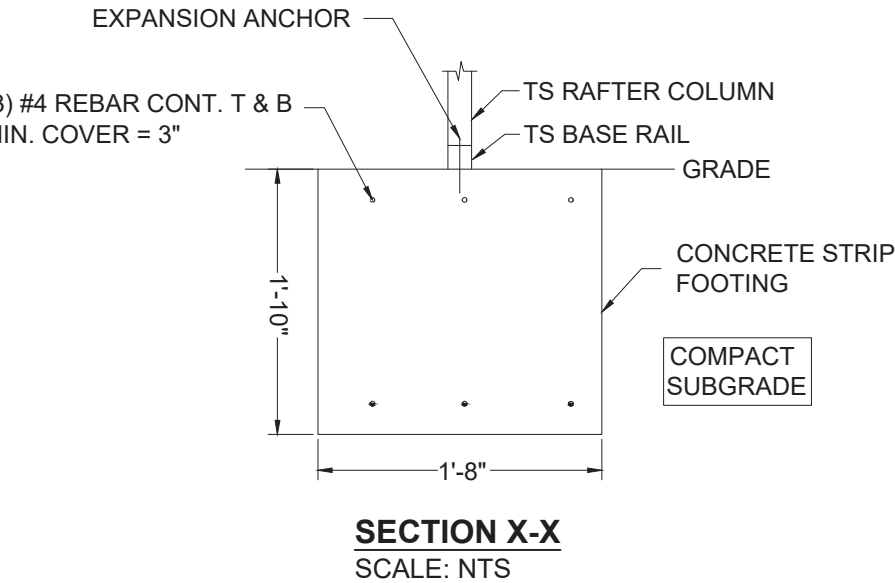
NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	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.



CONCRETE STRIP FOOTING PLAN  
SCALE: NTS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ADAM T. COLLINS  
LICENSE  
No. 75584

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-30\11.dwg, USER: 12/12/2022 1:50 PM

NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div>ADAM COLLINS ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-12
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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

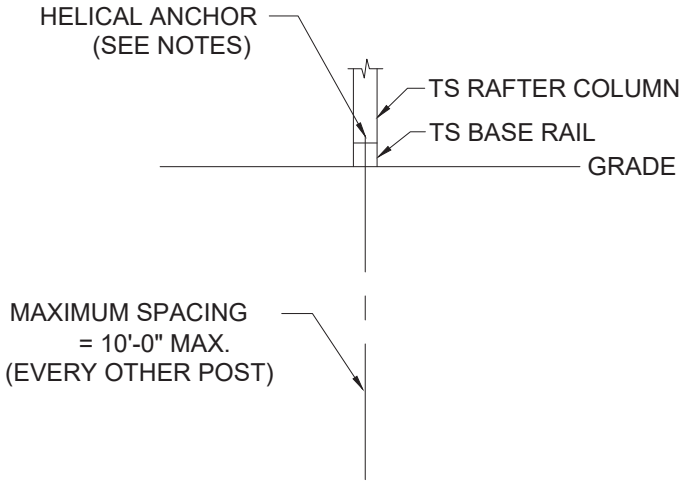
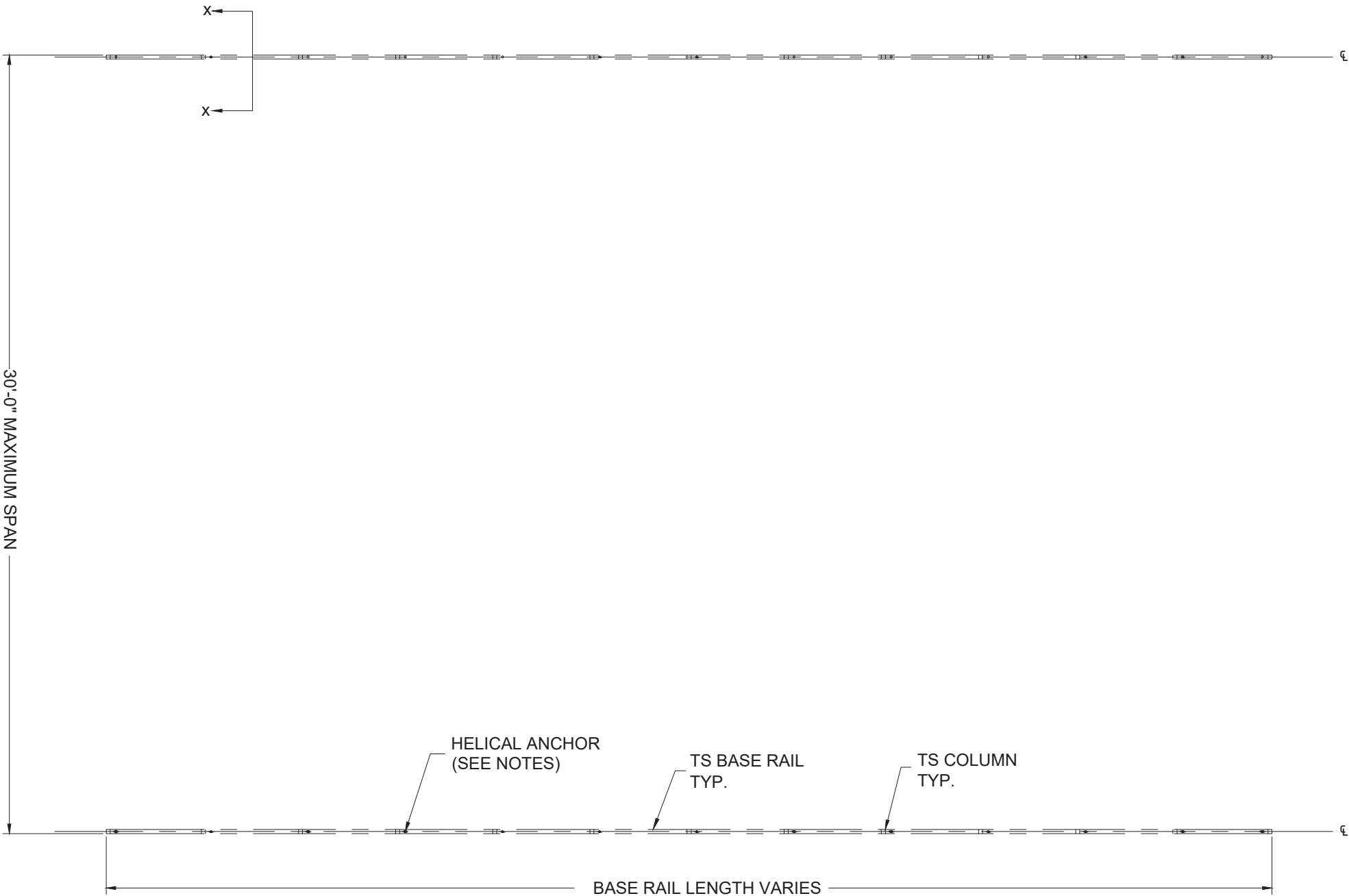
1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
- 2.1. LOOSE TO MEDIUM DENSE SANDS

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,



SECTION X-X  
SCALE: NTS

BASE RAIL PLAN  
SCALE: NTS

NO.	REVISIONS	DATE	DATE	2025.03.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div><div>CA</div><div>ADAM COLLINS</div><div>ENGINEERING INC.</div><div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div></div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Lee Jones 120 SW Pinehurst Dr Lake City, FL 32024	S-13
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.03.04. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ADAM T. COLLINS

LICENSE

No. 75584

STATE OF FLORIDA

PROFESSIONAL ENGINEER