

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

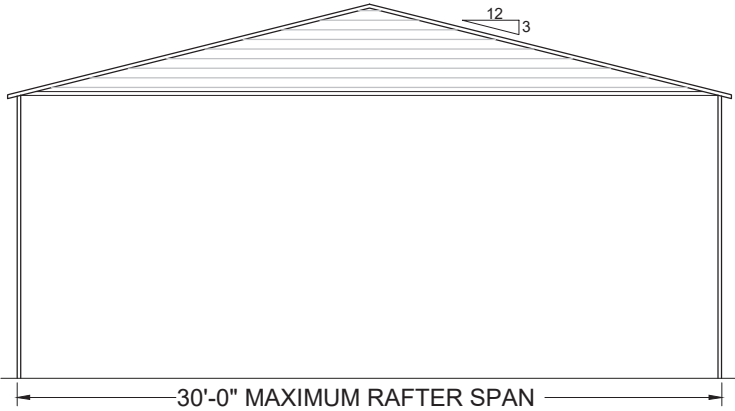
INSTALLATION NOTES AND SPECIFICATIONS

- 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.

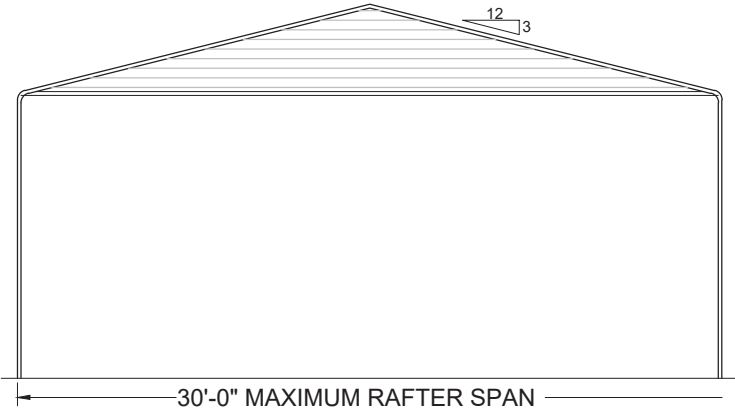
DESIGN LOADS

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

OPEN METAL CARPORT DESIGN
18FT WIDE X 30FT LONG X 9FT EAVE



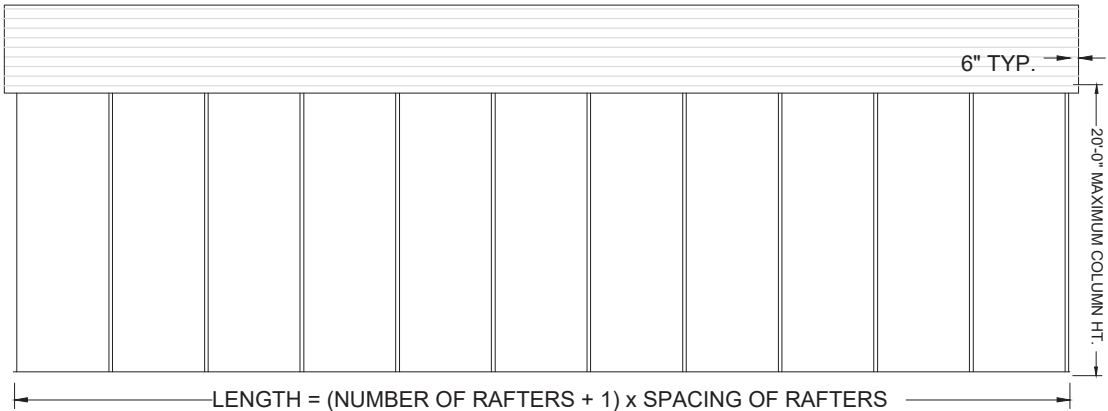
TYPICAL ELEVATION - BOX EAVE
SCALE: NTS



TYPICAL ELEVATION - BOW EAVE
SCALE: NTS

LEAN-TO INDEX	
BUILDING SIDE	LEAN-TO SIZE (FT)
LEFT	12x30x7
RIGHT	12x30x7
FRONT	
REAR	

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.						



TYPICAL SIDE ELEVATION
SCALE: NTS

TABLE 1

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.

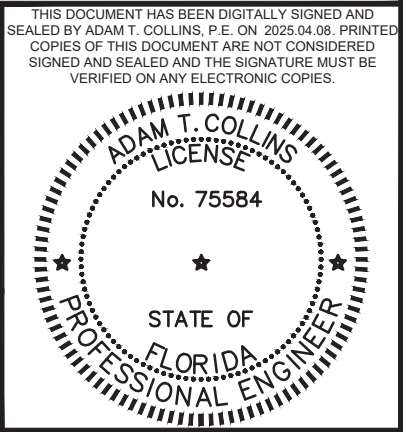
TABLE 3

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

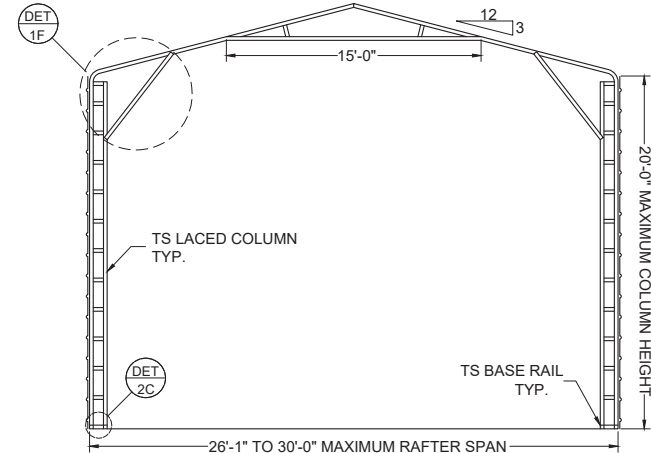
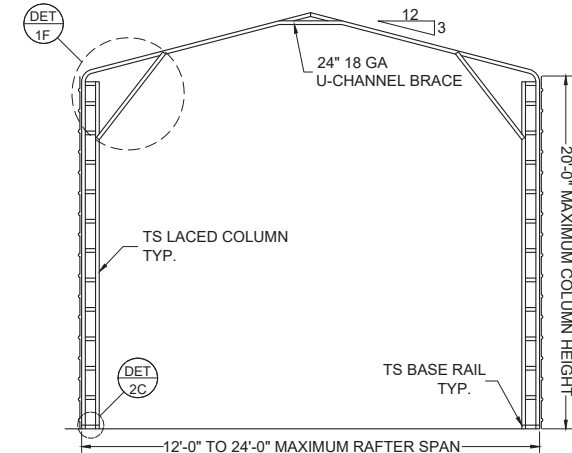
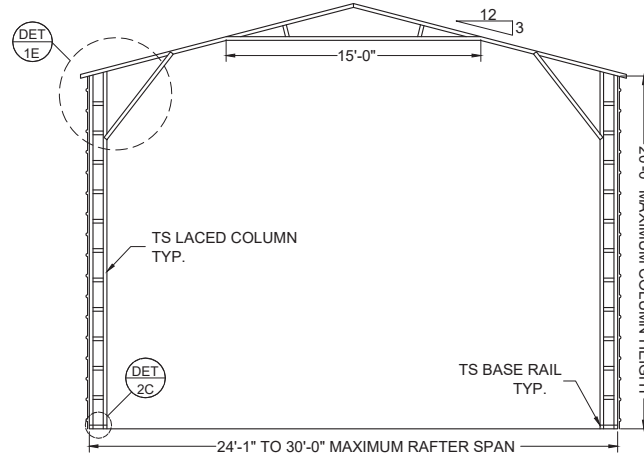
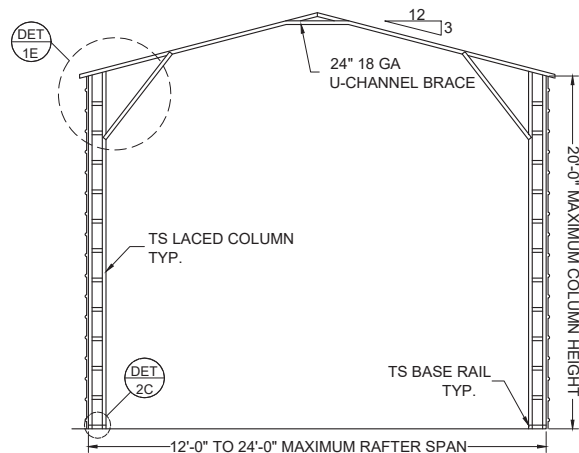
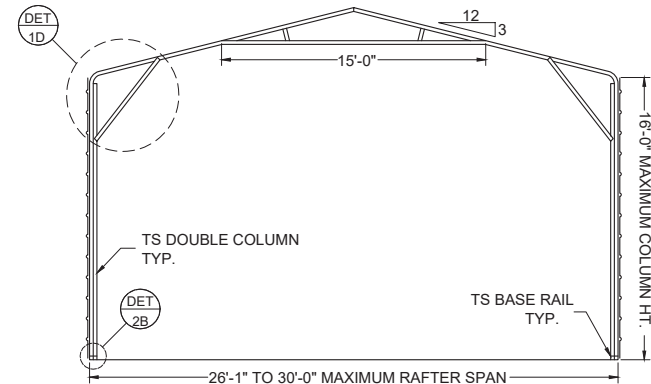
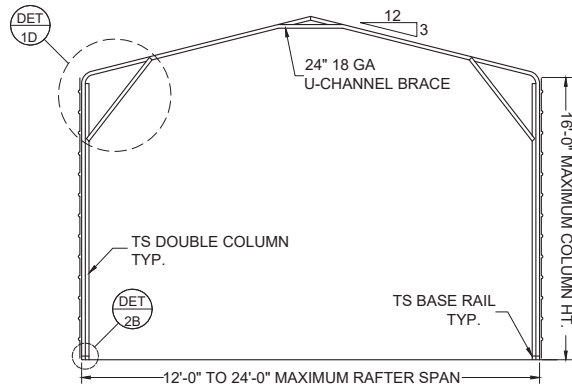
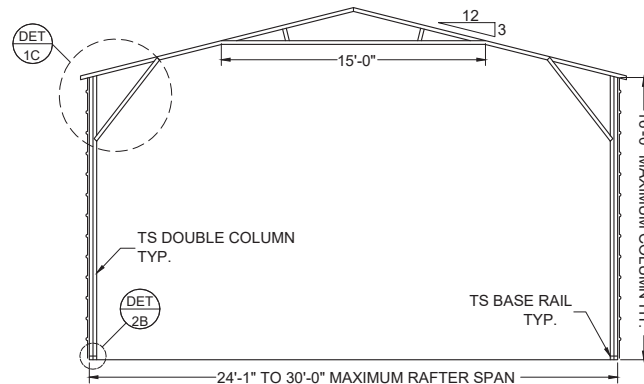
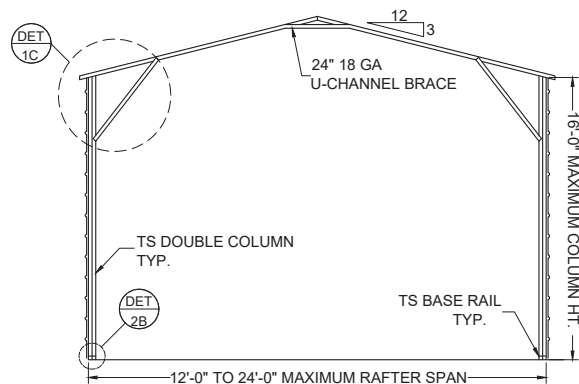
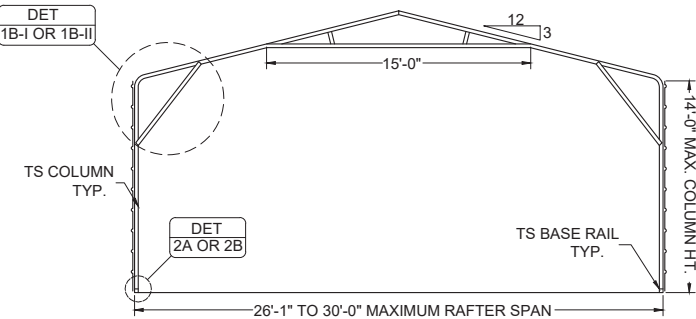
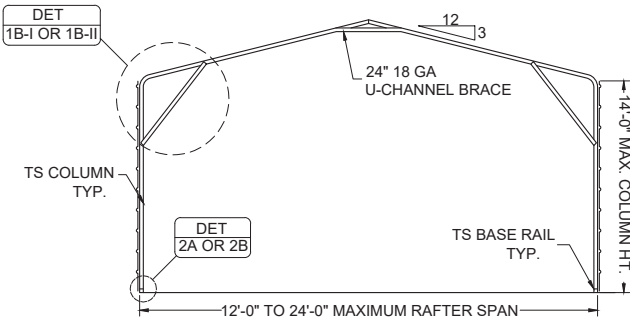
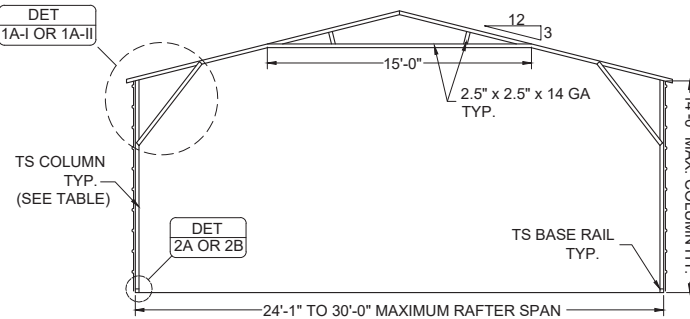
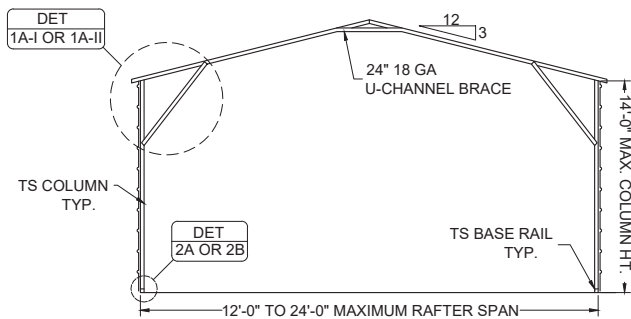
DRAWING INDEX

PAGE NO.	DESCRIPTION
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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

NO.	REVISIONS	DATE	DATE	2025.04.08	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	NOTES AND SPECIFICATIONS	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-1
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							



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BOX EAVE FRAME

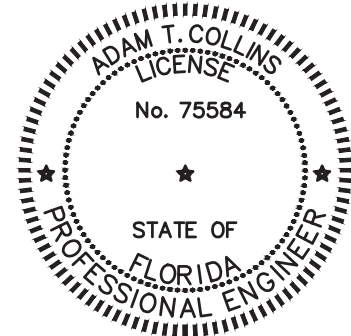
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BOW EAVE FRAME

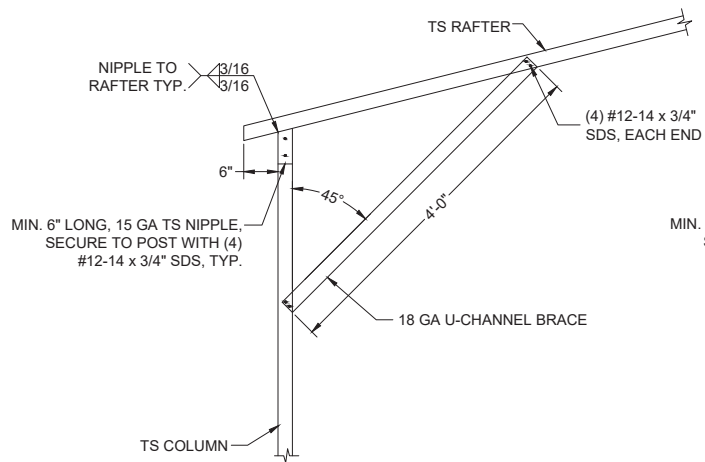
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			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

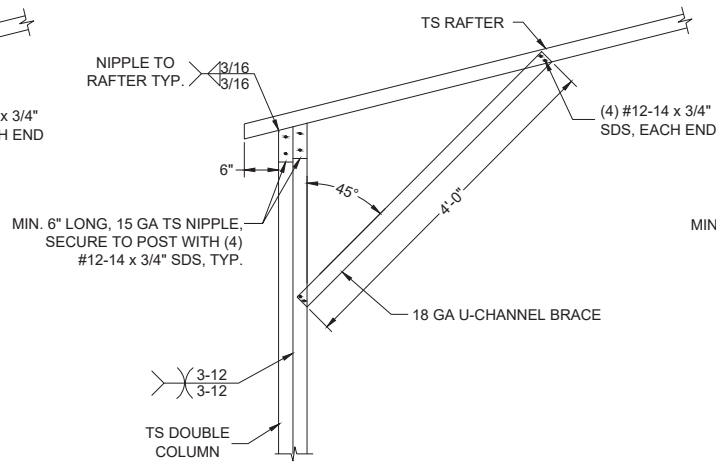
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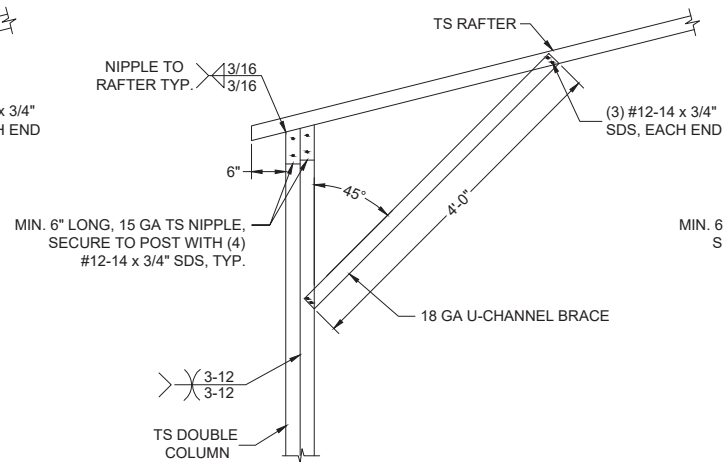
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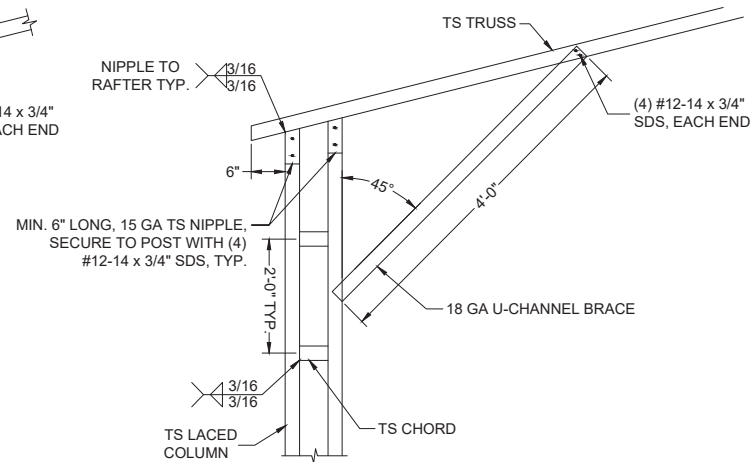
1A-I BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



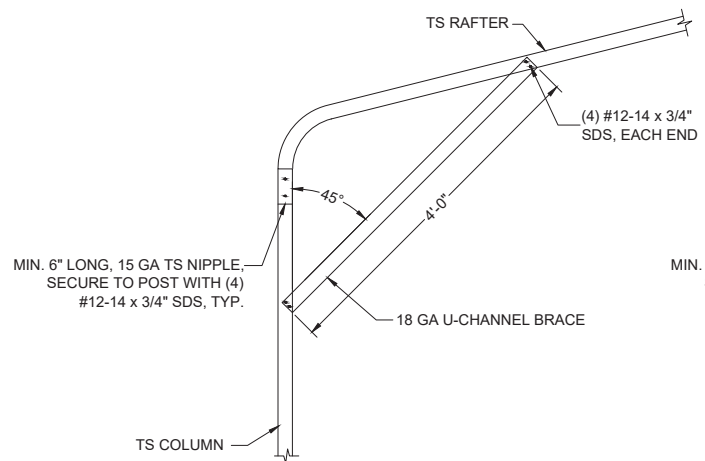
1A-II BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



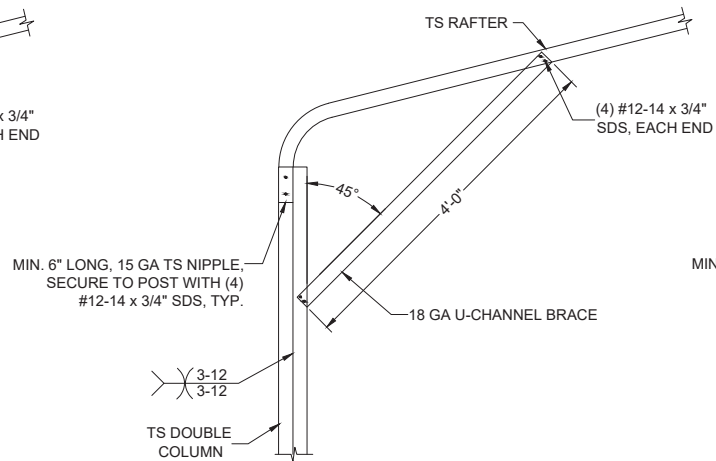
1C BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 16'H
SCALE: NTS



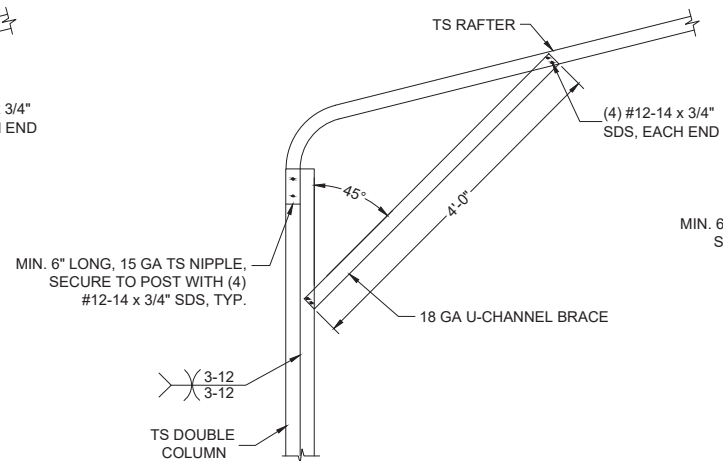
1E BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 20'H
SCALE: NTS



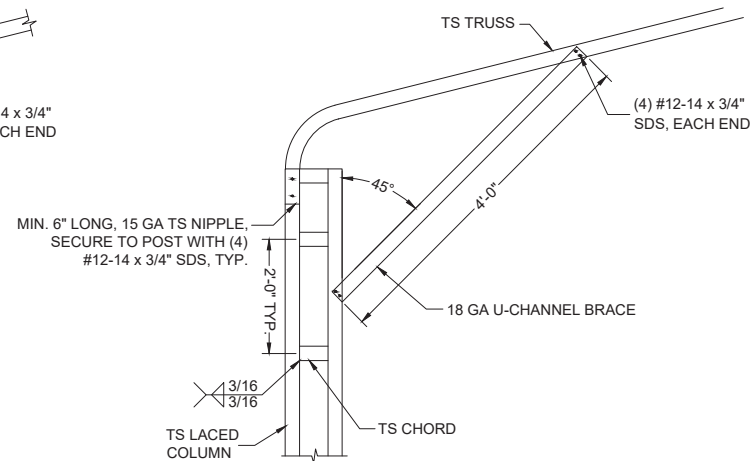
1B-I BOW EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



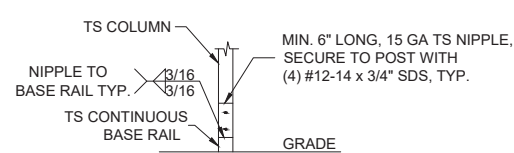
1B-II BOW EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
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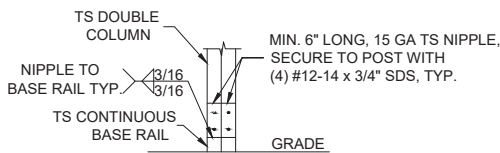
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CONNECTION 30'(MAX.)W x 16'H
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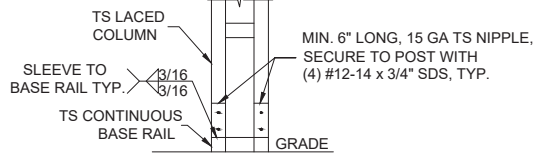
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CONNECTION 30'(MAX.)W x 20'H
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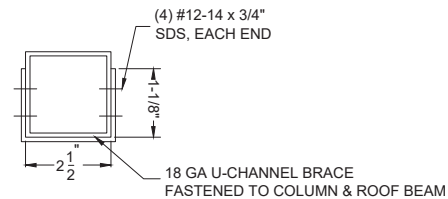
2A POST/BASE RAIL CONNECTION
SCALE: NTS



2B POST/BASE RAIL CONNECTION
SCALE: NTS

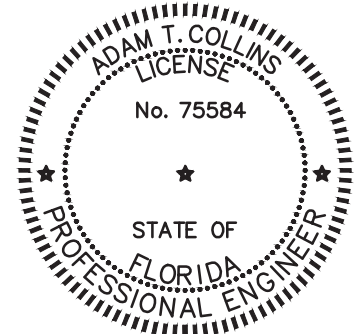


2C POST/BASE RAIL CONNECTION
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BRACE SECTION
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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (1 OF 4)	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-3
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
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GENERAL NOTES

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

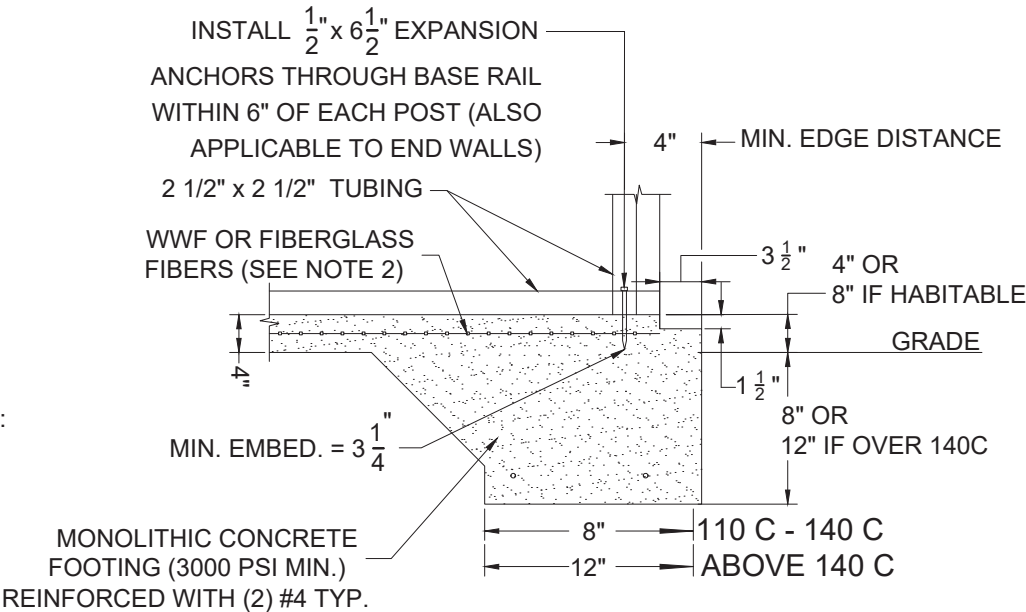
REINFORCING STEEL

- 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.

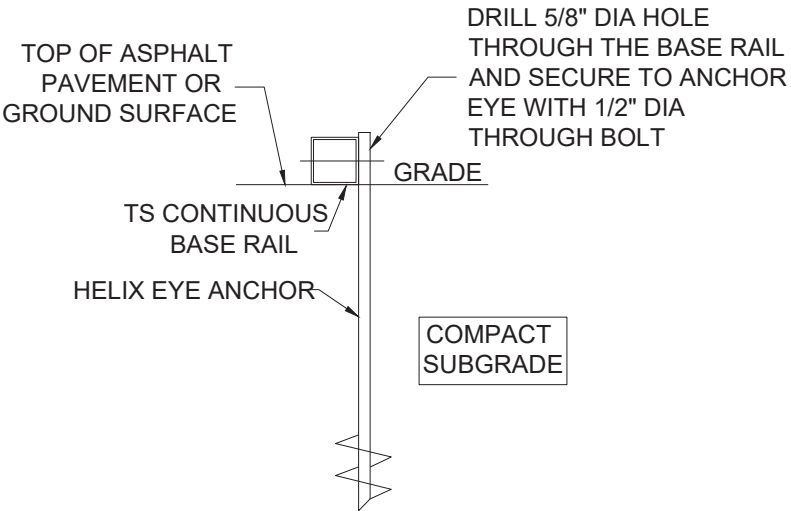
HELIX ANCHOR NOTES

- 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,

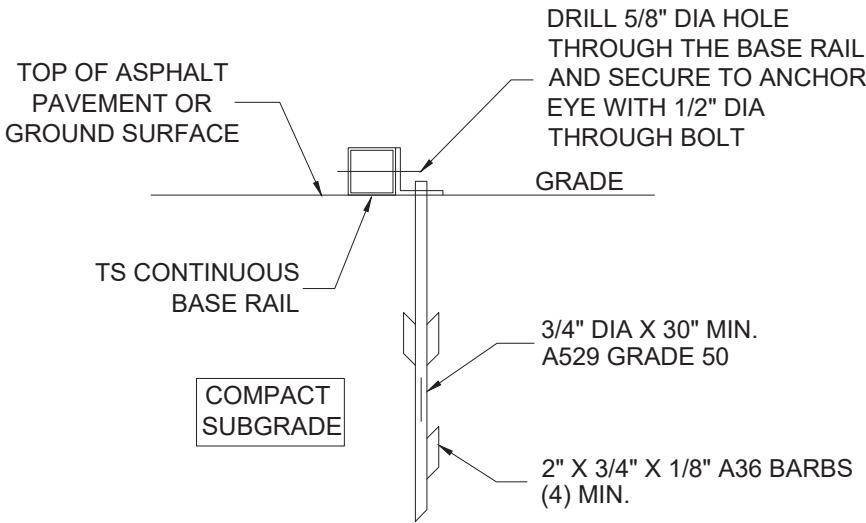
MONOLITHIC FOOTER SIZE	
110 C - 140 C	8" x 12" - (2) #4
ABOVE 140 C	12" x 16" - (2) #4



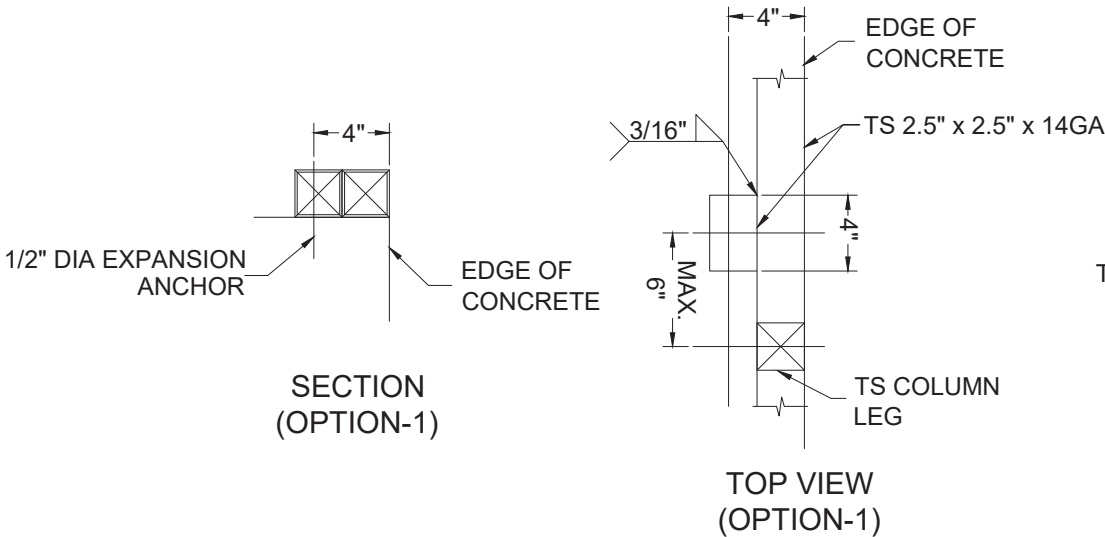
3A CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE
SCALE: NTS



3B GROUND BASE HELIX ANCHORAGE
SCALE: NTS



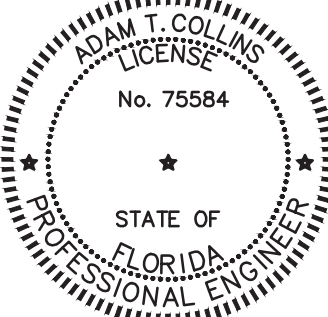
3C ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR)
SCALE: NTS



3D TYPICAL ANCHOR DETAIL WHEN BASE
RAIL IS NEAR EDGE OF CONCRETE
SCALE: NTS

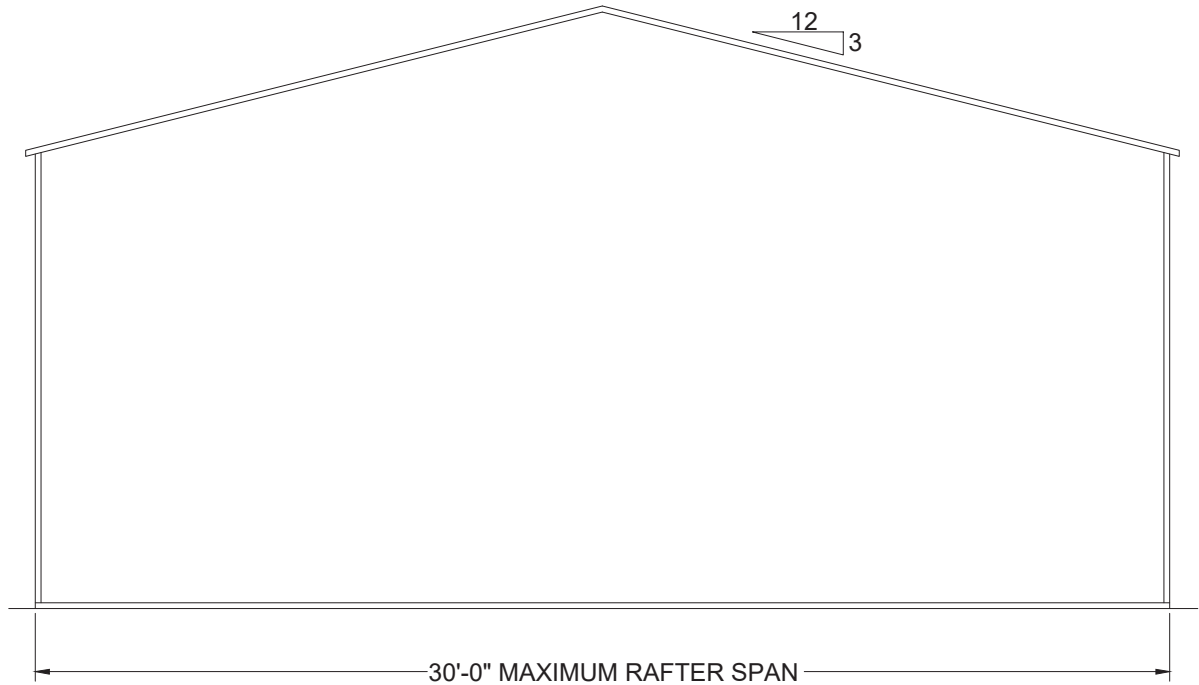
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			DESIGNED	DMC		SCALE					
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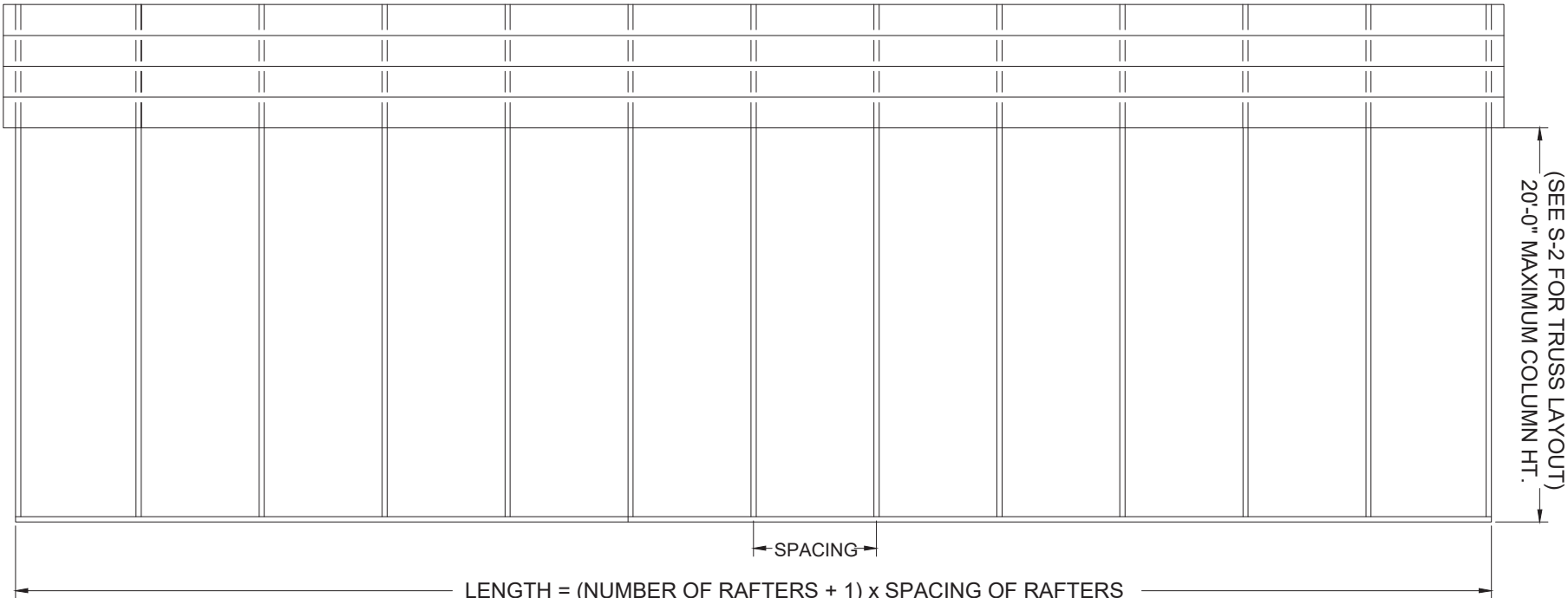
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SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

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

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			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
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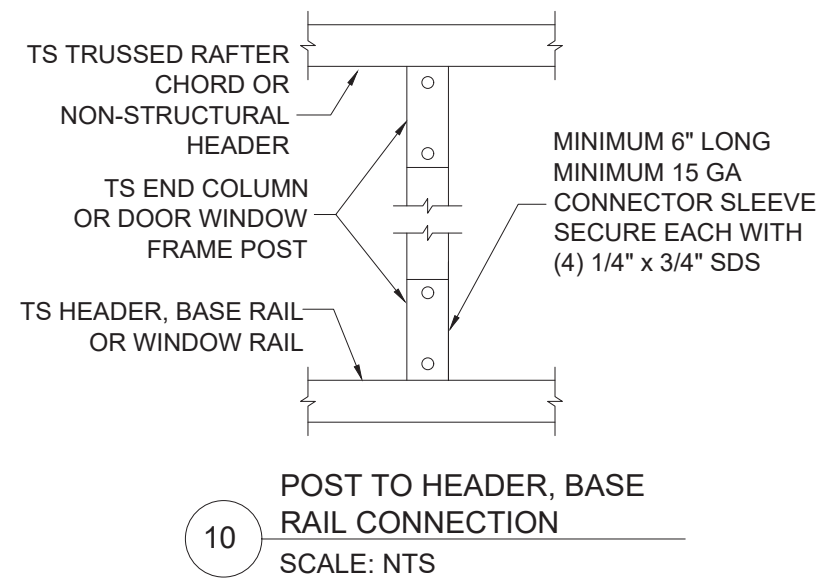
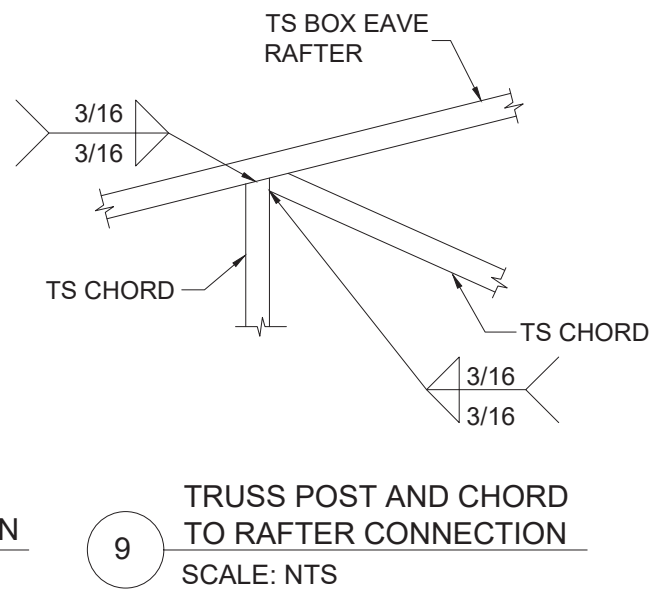
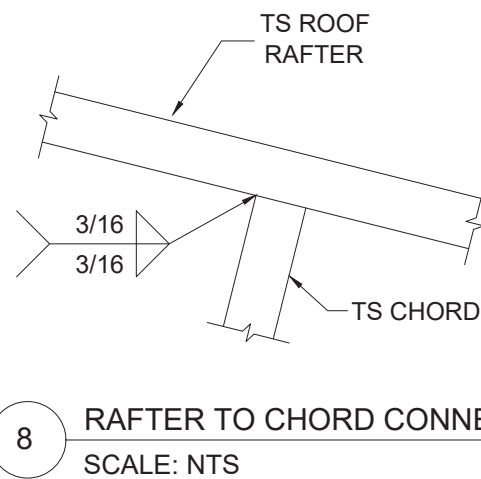
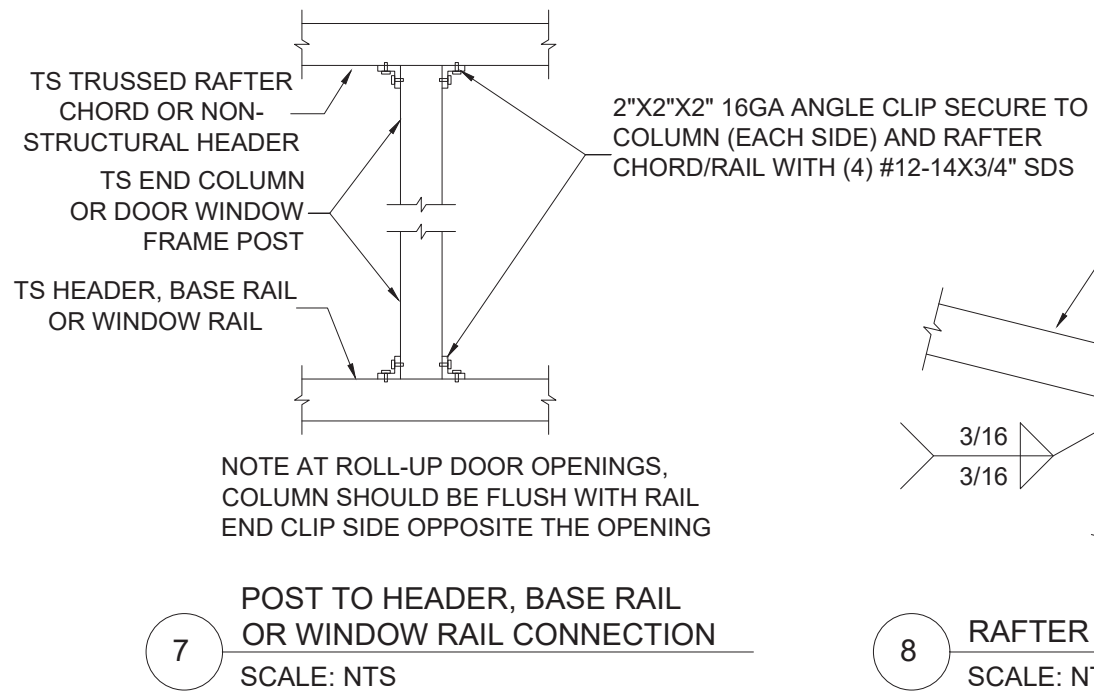
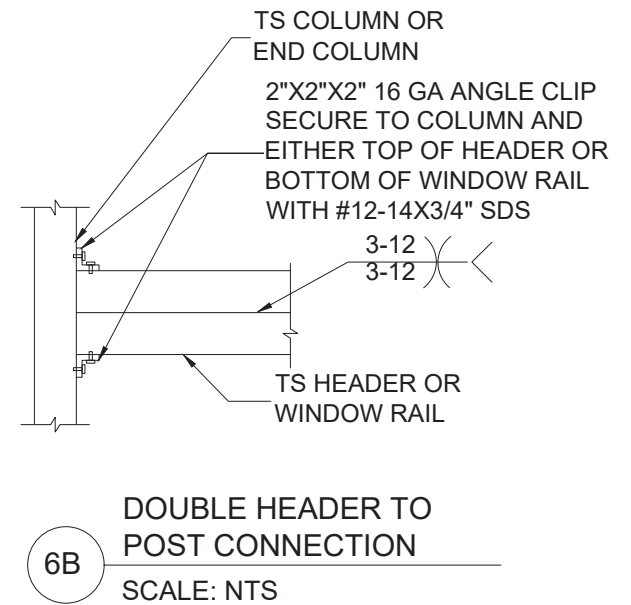
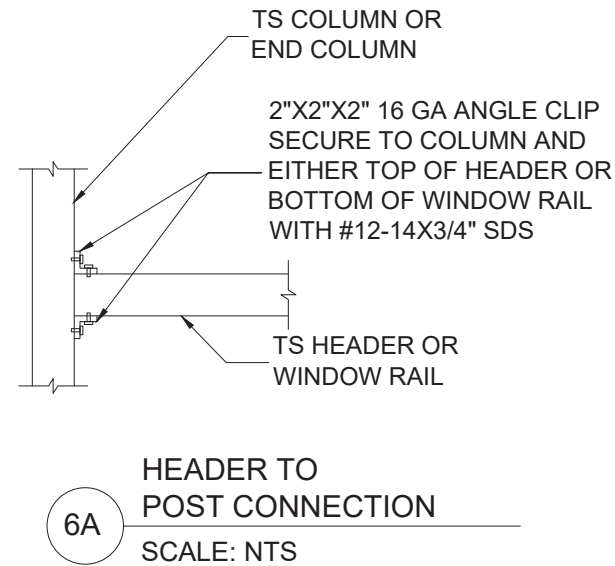
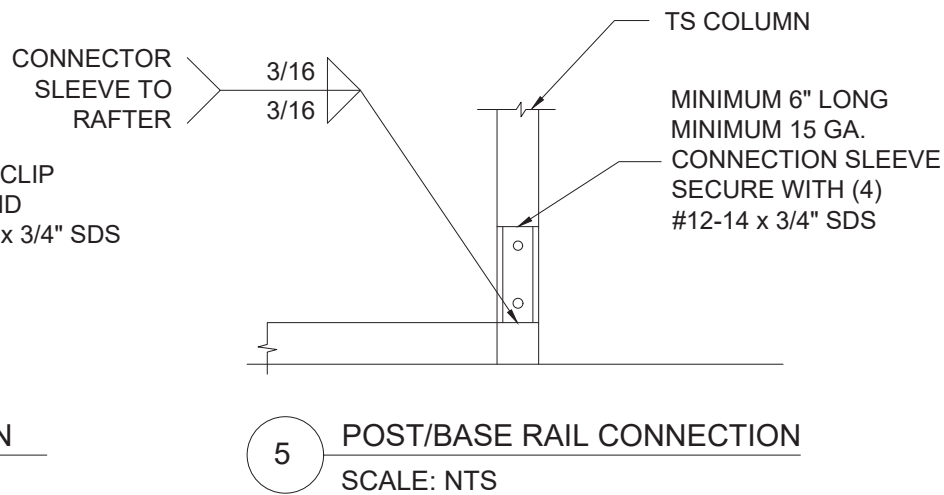
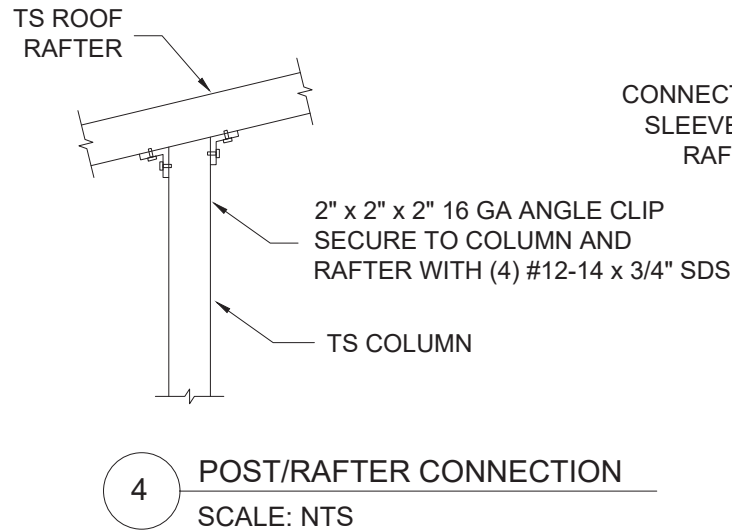
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No. 75584

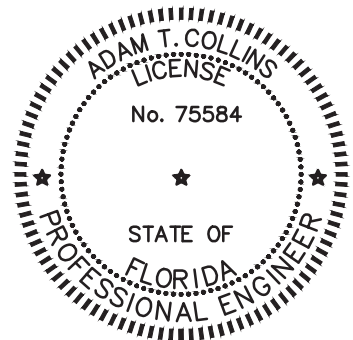
STATE OF FLORIDA

PROFESSIONAL ENGINEER

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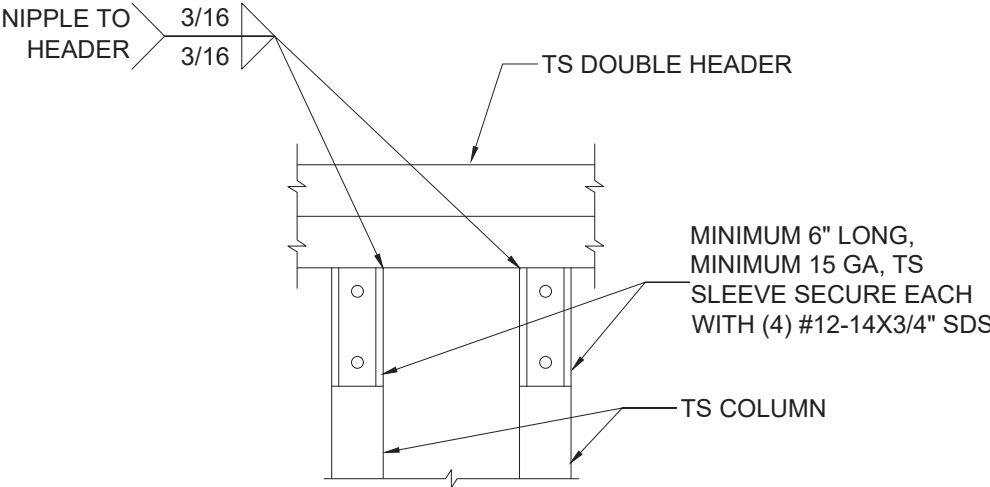


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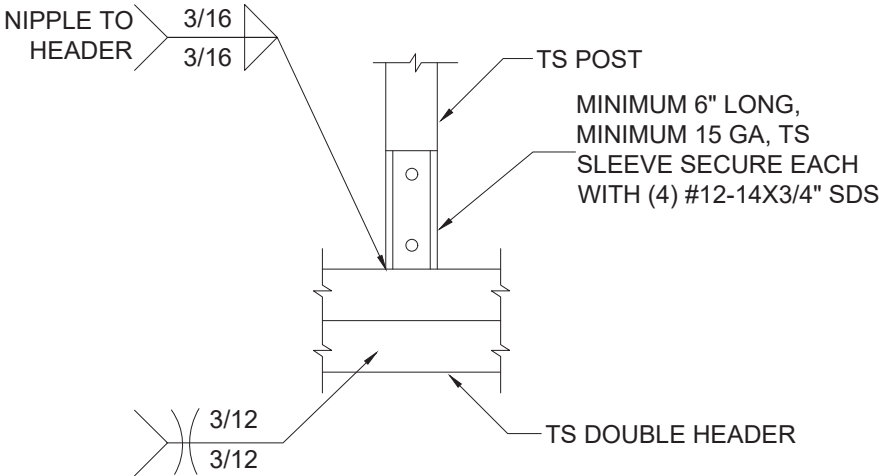


NO.	REVISIONS	DATE	DATE	2025.04.08	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-6
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

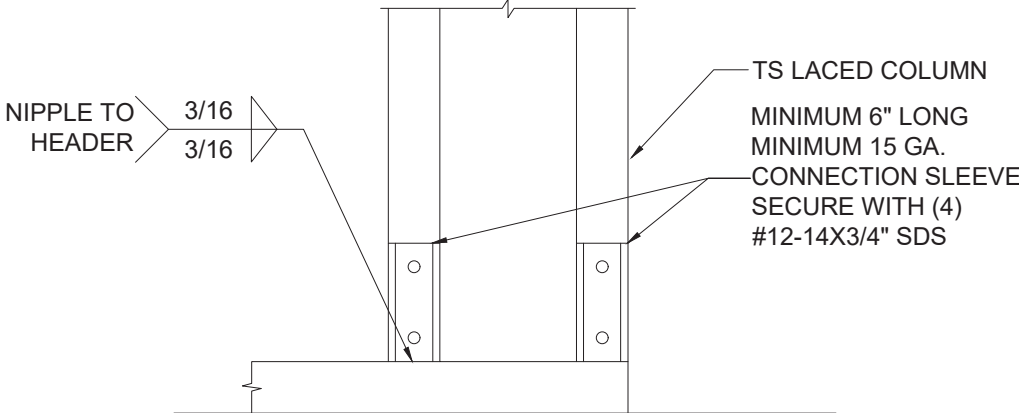
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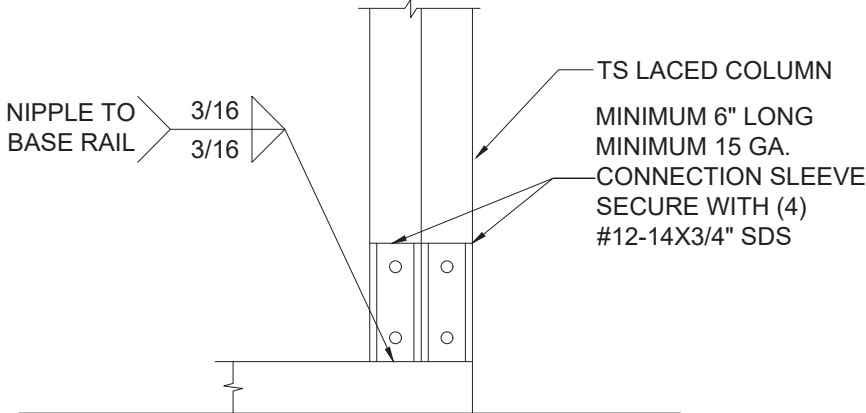
11 DOUBLE HEADER TO POST CONNECTION
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION
SCALE: NTS

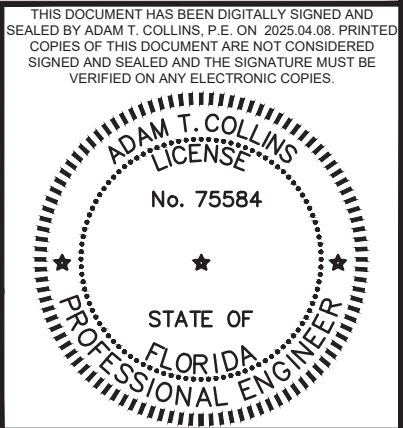


13A POST/BASE RAIL CONNECTION
SCALE: NTS

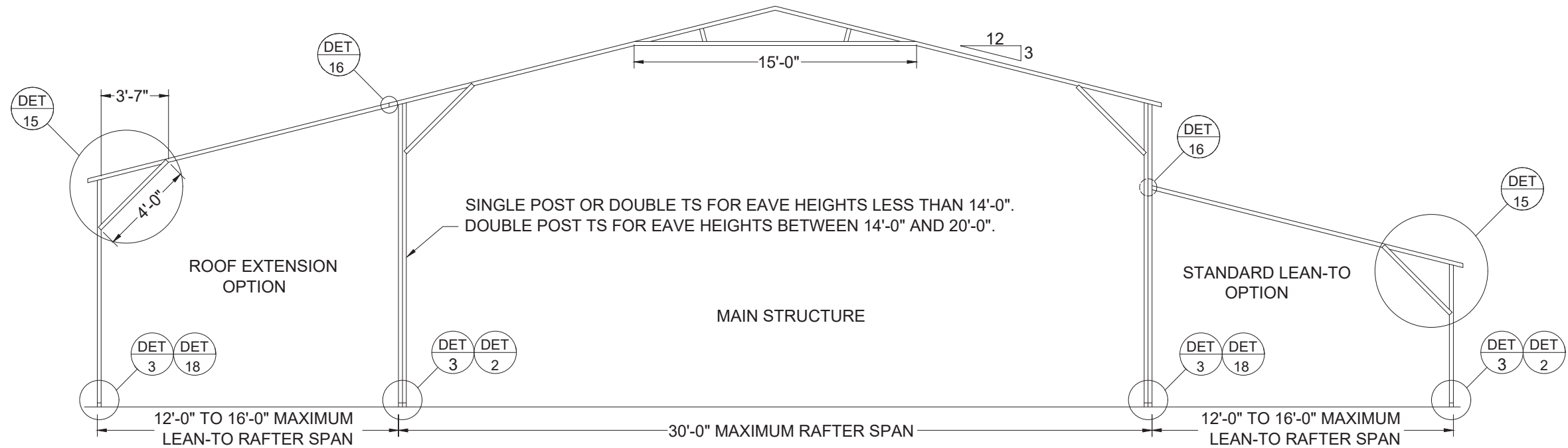


13B POST/BASE RAIL CONNECTION
SCALE: NTS

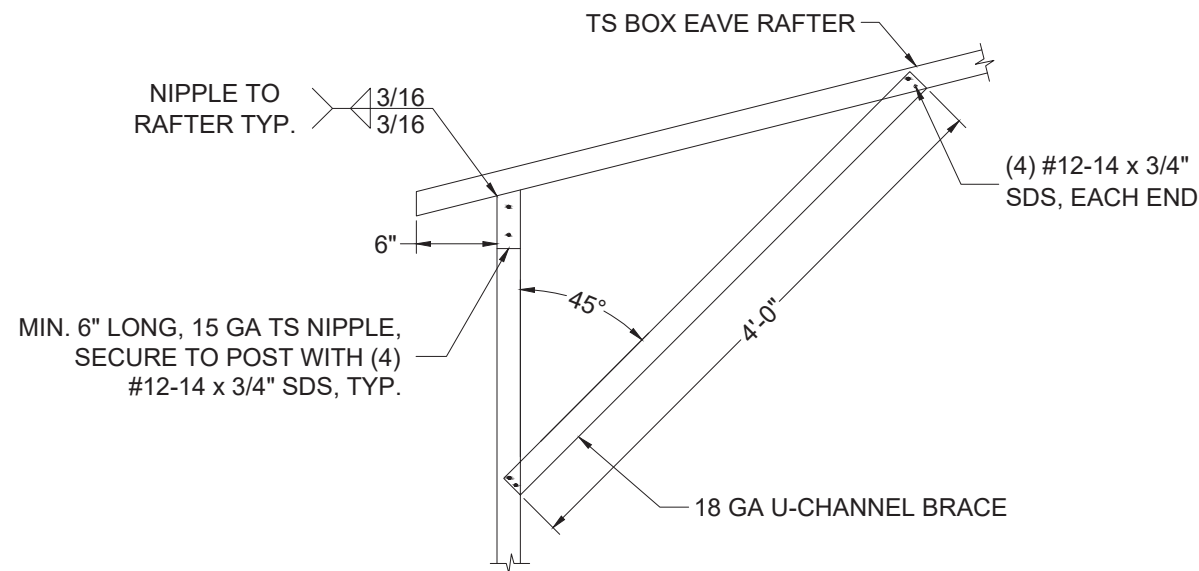
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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (3 OF 4)	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-7
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							



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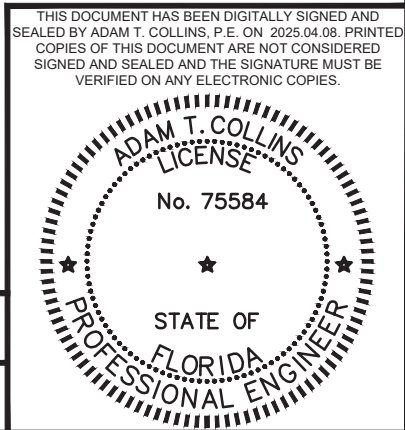


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION
SCALE: NTS

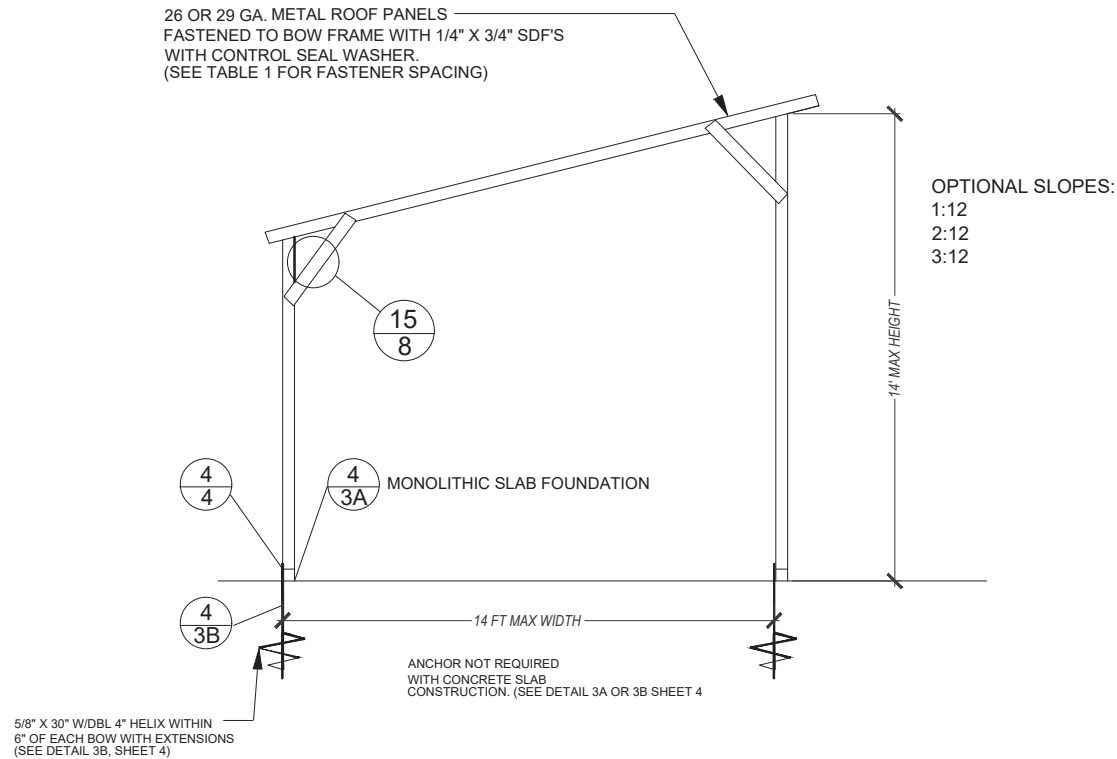


LEAN-TO RAFTER/CORNER POST CONNECTION
SCALE: NTS

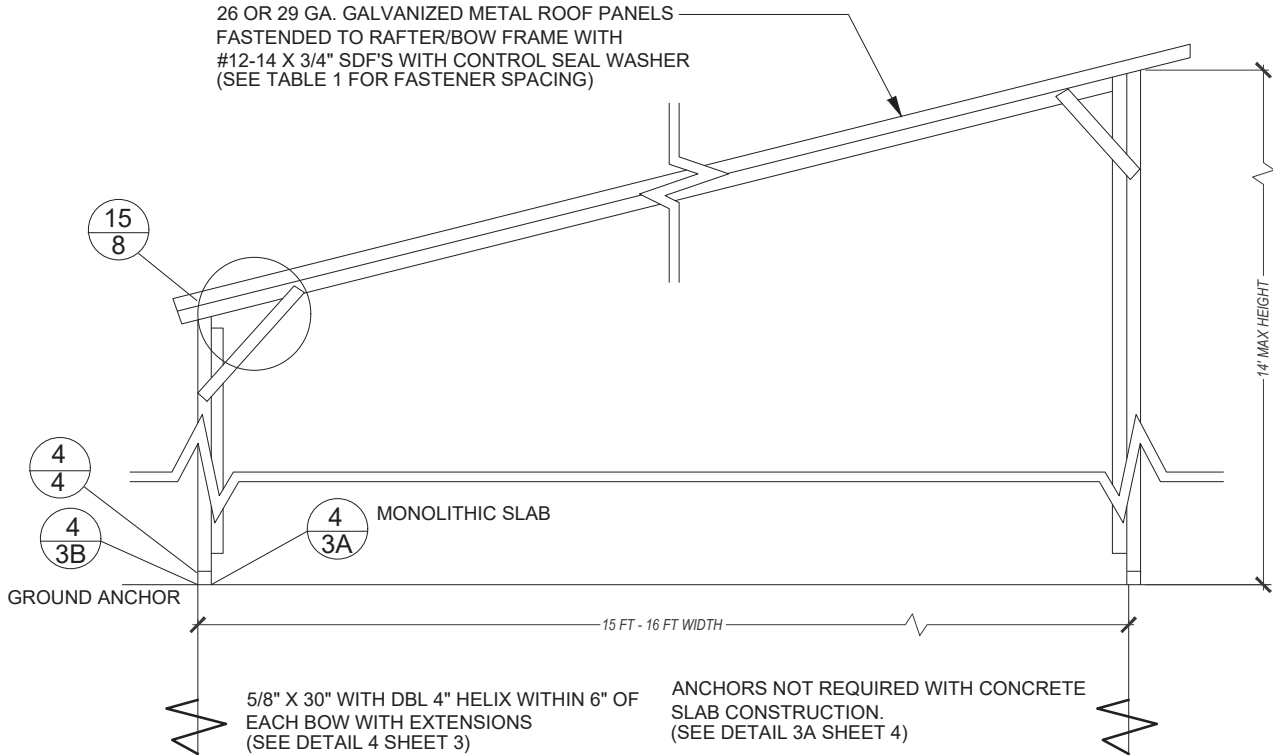
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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER LEAN TO OPTIONS	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-8
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							



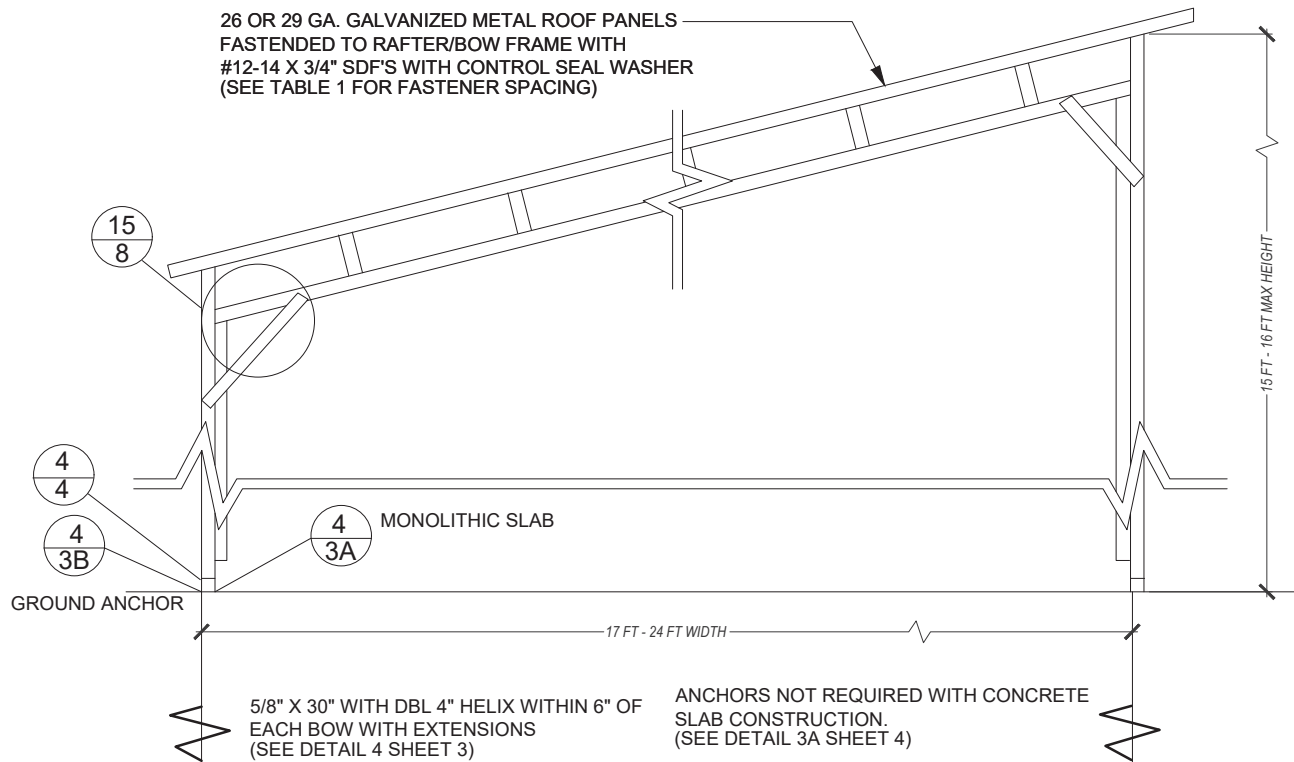
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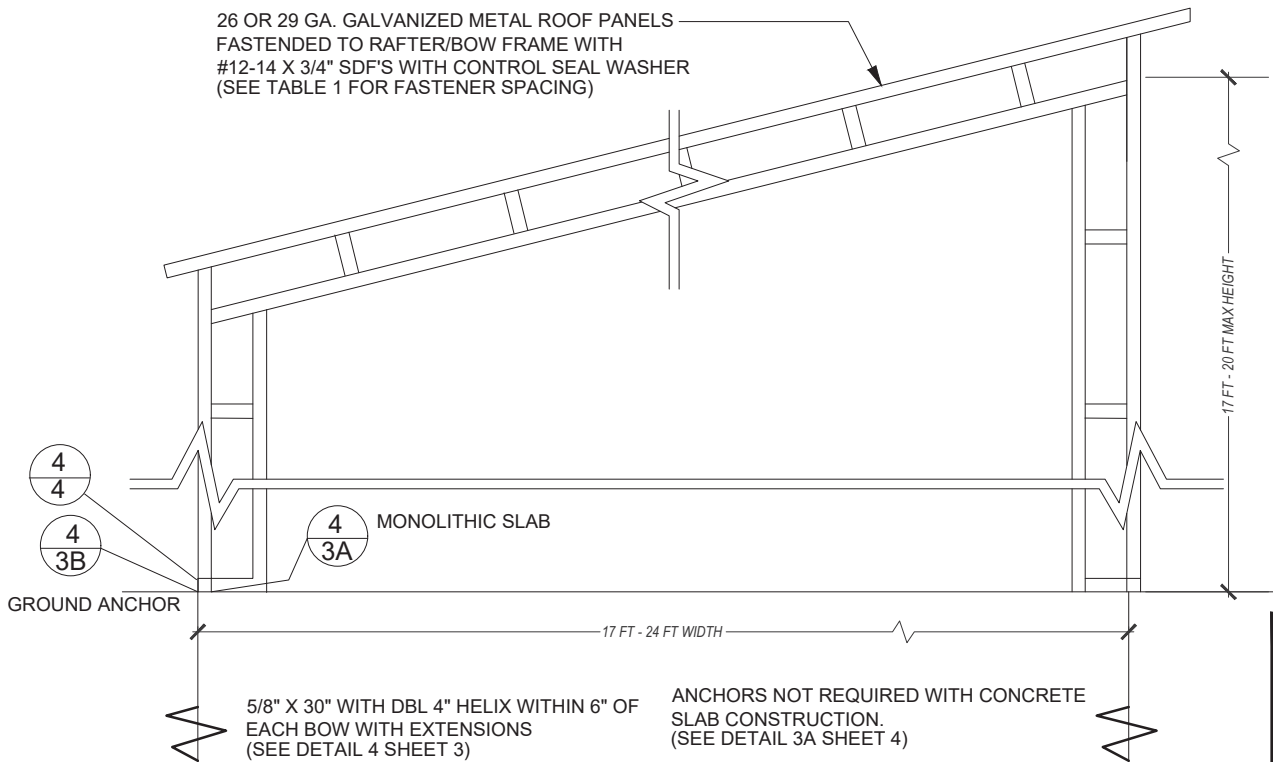
14 FT MAX WIDTH FREESTANDING LEAN-TO
SCALE: NTS



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

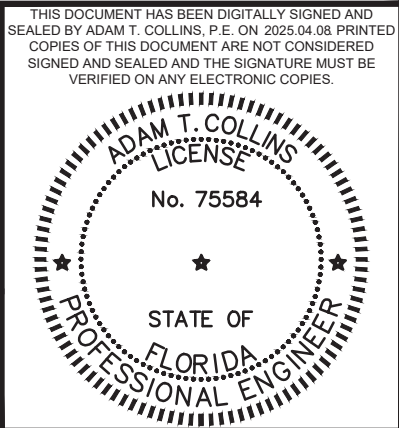


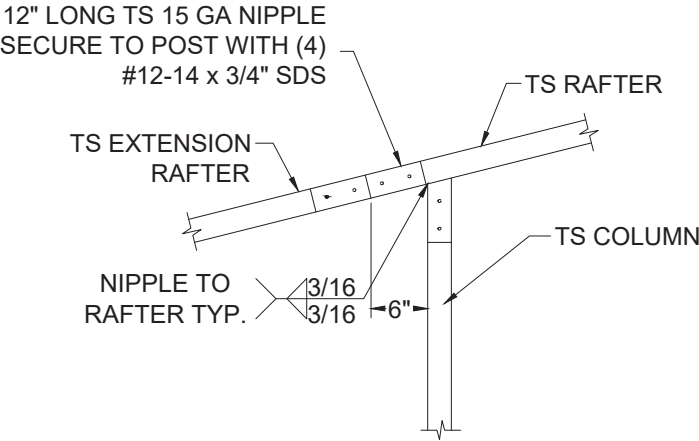
17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS



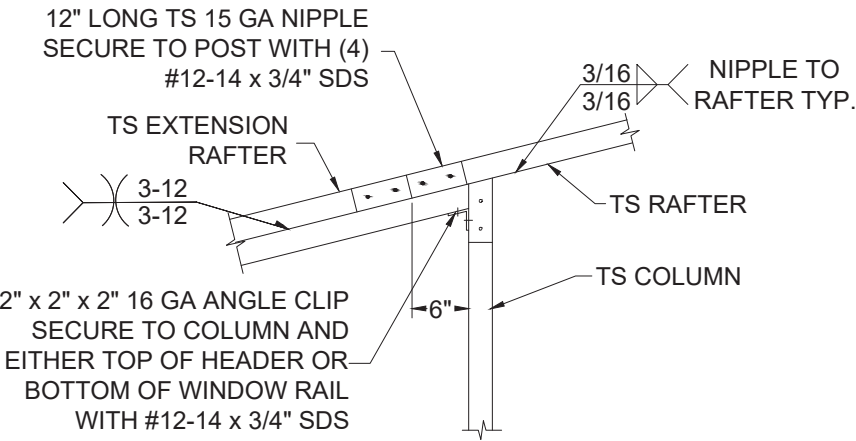
17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS

NO.	REVISIONS	DATE	DATE	2025.04.08	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-9
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

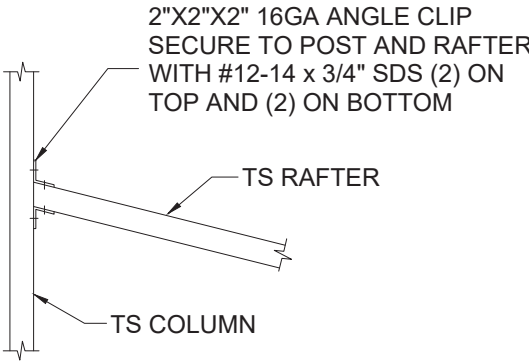




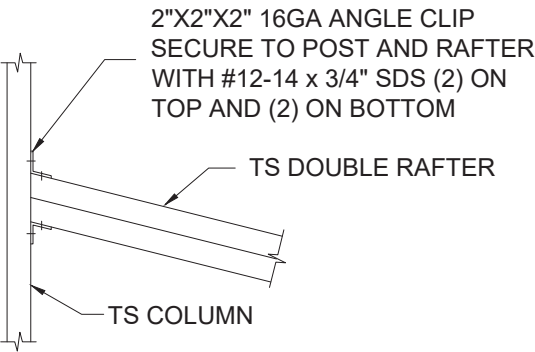
16A SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN LESS THAN 12'-0"
SCALE: NTS



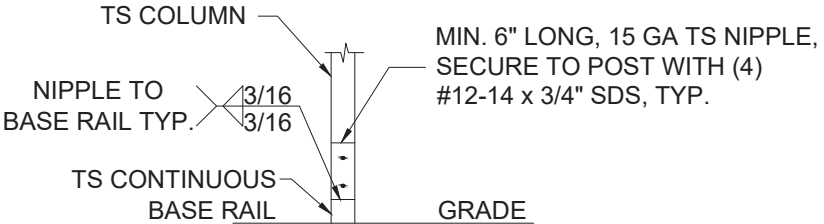
16B SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"
SCALE: NTS



17A 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

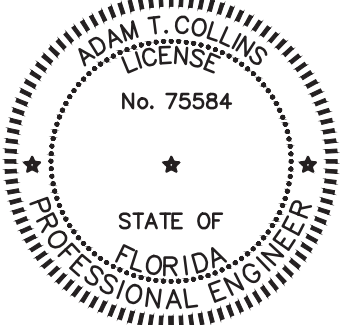


18 LEAN-TO POST CONNECTION
SCALE: NTS

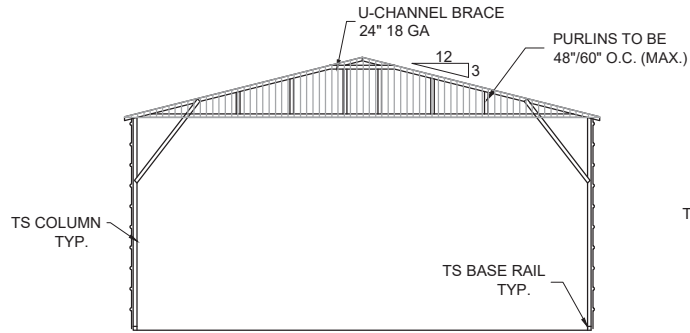
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NO.		REVISIONS		DATE		DATE		2025.04.08		SUBMITTALS		DATE		PREPARED BY		CLIENT		SHEET TITLE		PROJECT		SHEET NO.	
						DRAWN		SM						 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM		ELITE METAL MANUFACTURING 10121 88TH TRACE		CONNECTION DETAILS (4 OF 4)		Mike Bestoso 4140 SE CR 18 Lake City, FL 32025		S-10	
										SCALE													
										AS-SHOWN													
						CHECKED		ATC															
						JOB No.		22047															

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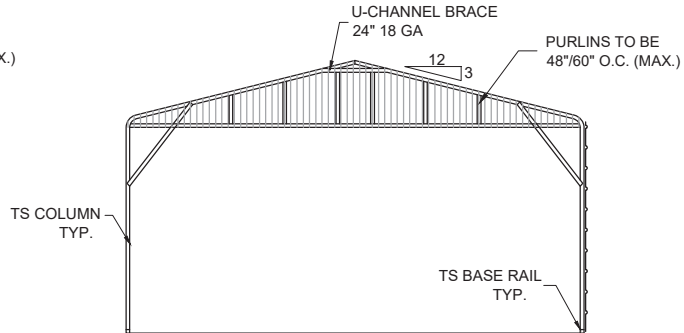


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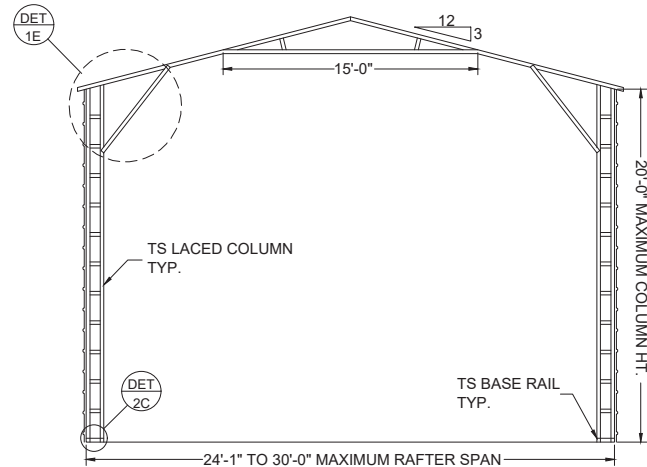
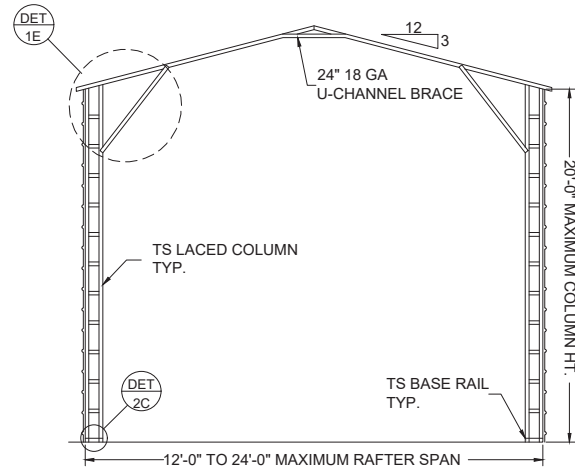
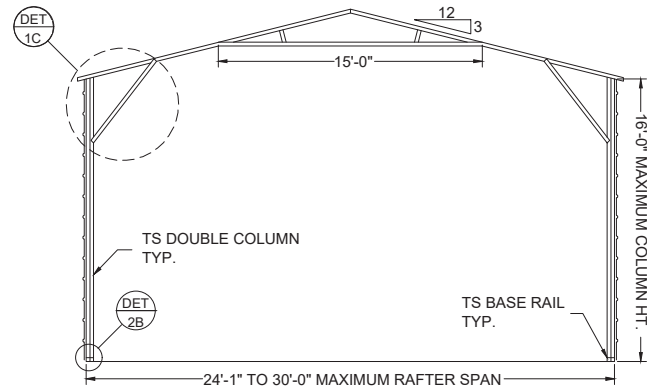
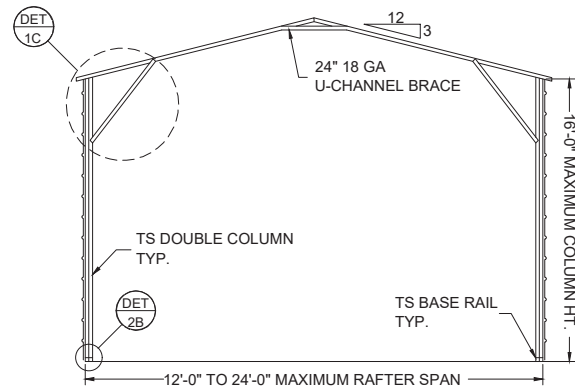
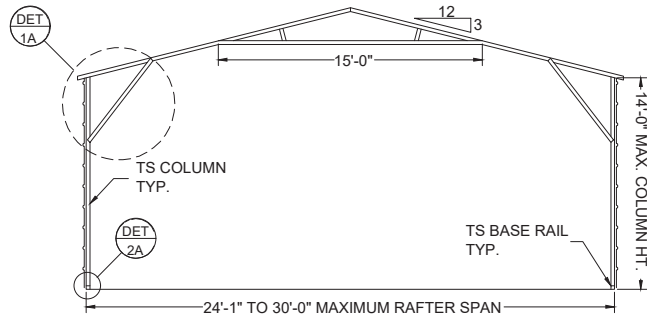
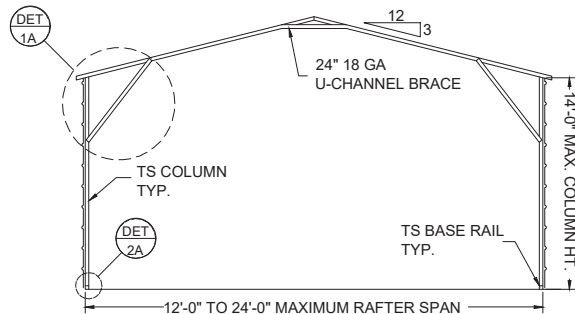
*SIDEWALL COVERAGE VARIES (SECURE TO FRAME PER SIDING SPECIFICATIONS)
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

OPTIONAL GABLE END BOX EAVE FRAME
SCALE: NTS

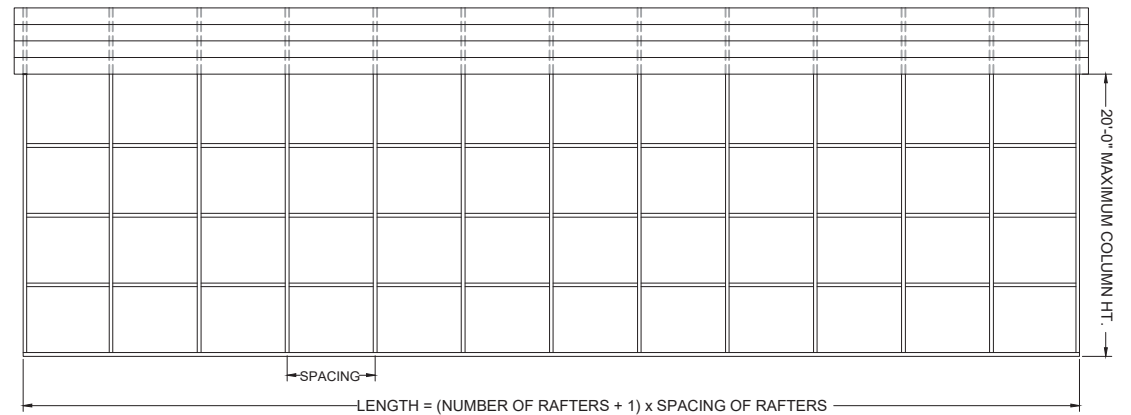


*SIDEWALL COVERAGE VARIES (SECURE TO FRAME PER SIDING SPECIFICATIONS)
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

OPTIONAL GABLE END BOW EAVE FRAME
SCALE: NTS

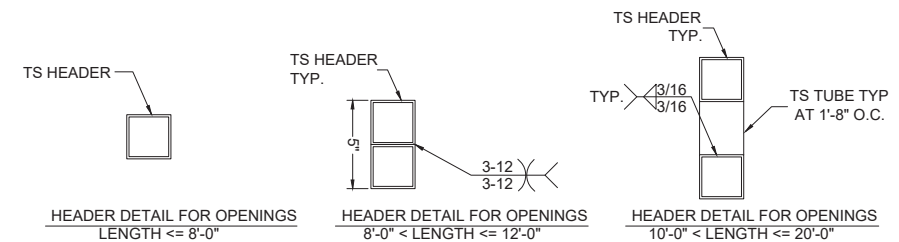


BOX EAVE FRAME
SCALE: NTS

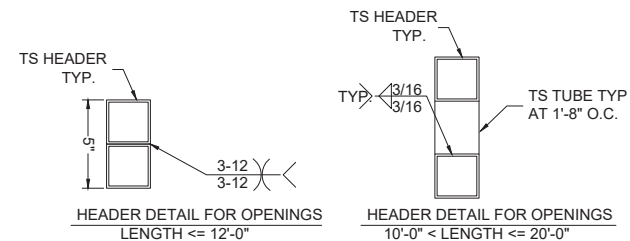


*SIDEWALL COVERAGE VARIES (SECURE TO FRAME PER SIDING SPECIFICATIONS)
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

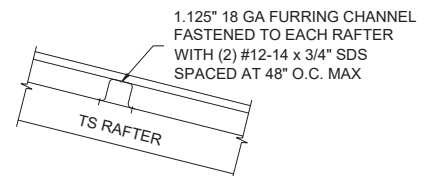
TYPICAL SIDE FRAME SECTION
SCALE: NTS



SIDE WALL OPTION HEADER
SCALE: NTS



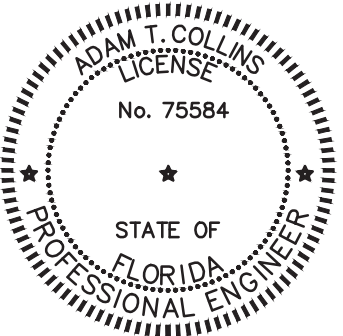
END WALL OPTION HEADER
SCALE: NTS



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

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			DRAWN	SM			 CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-11
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

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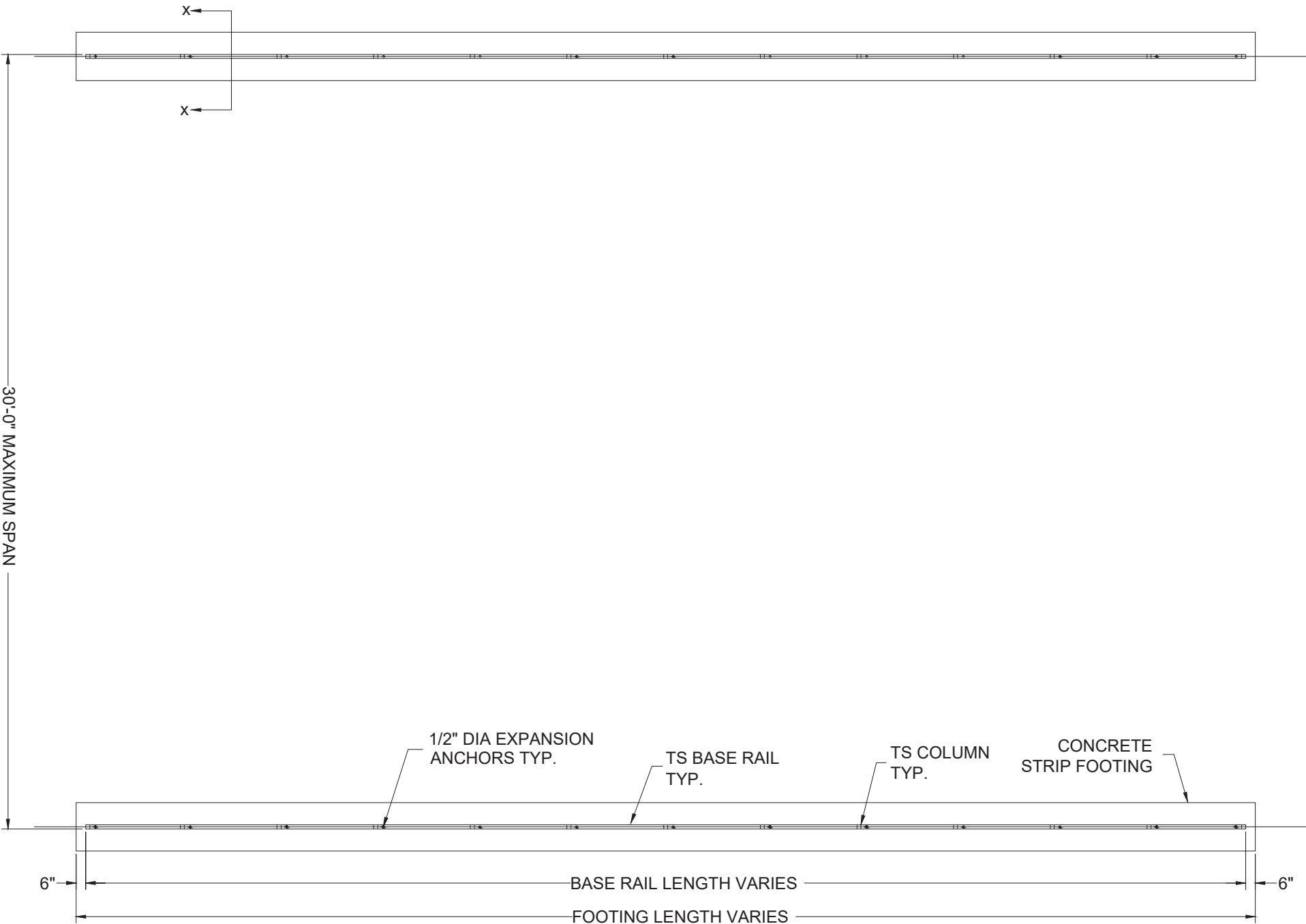
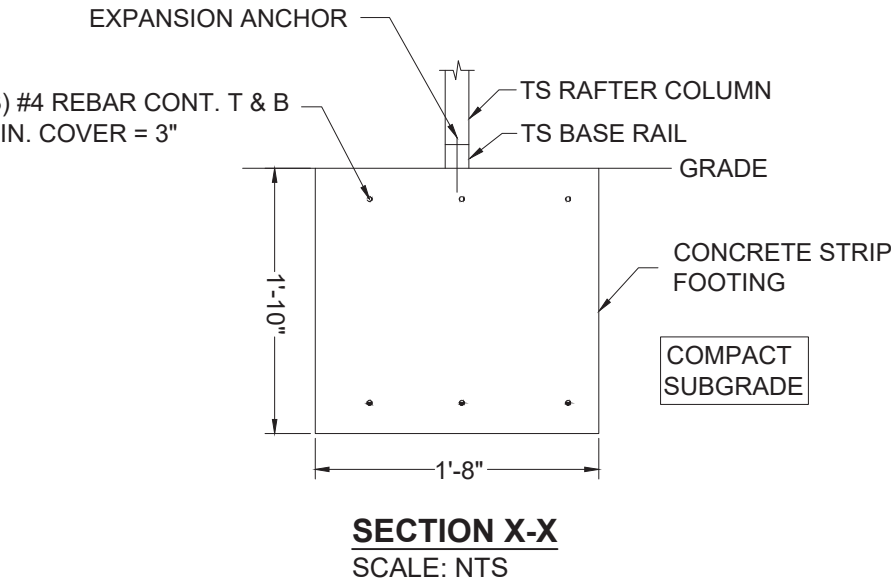


GENERAL NOTES

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.



CONCRETE STRIP FOOTING PLAN
SCALE: NTS

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No. 75584

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FLORIDA
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			DRAWN	SM			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-12
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			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

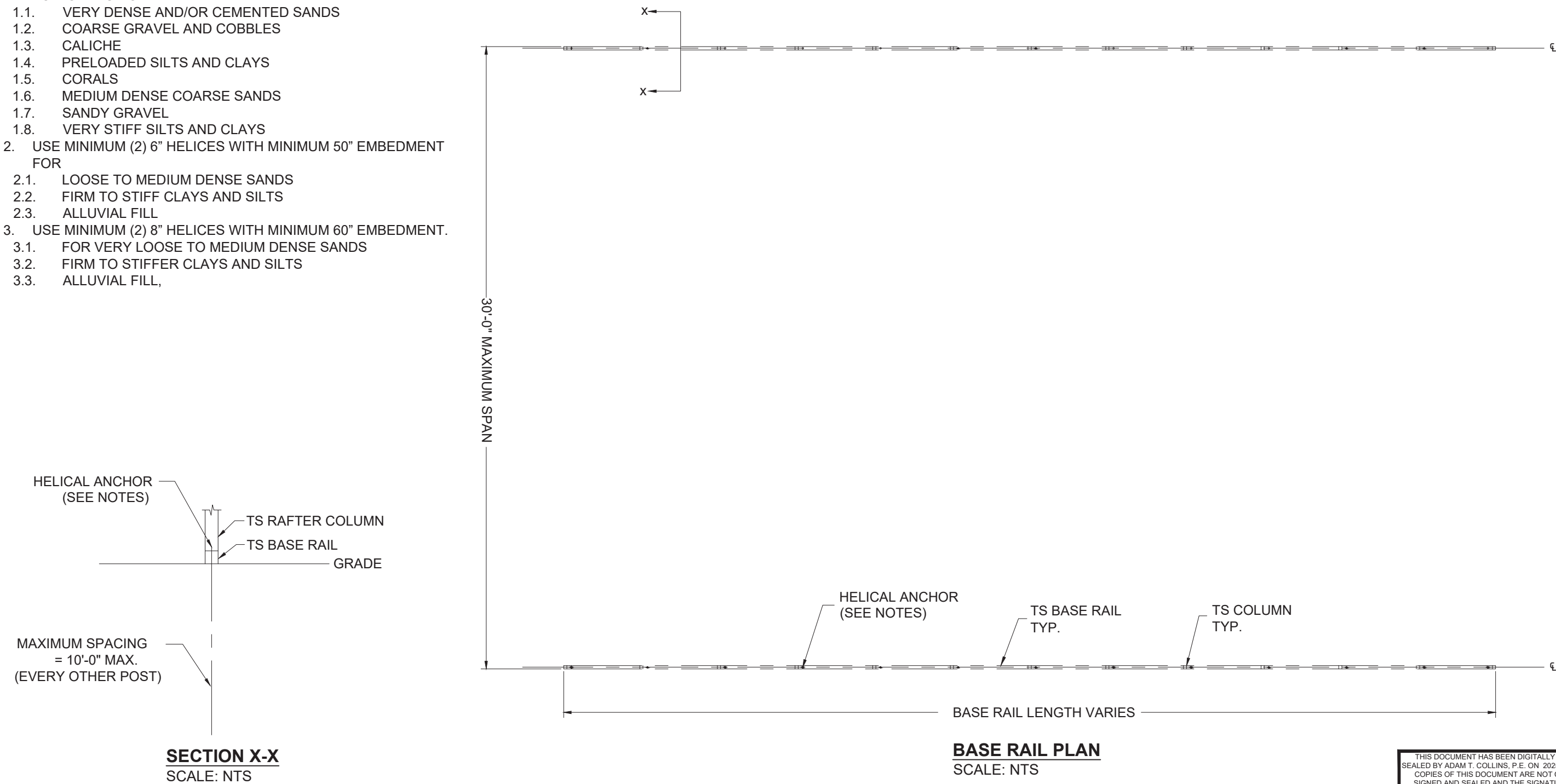
1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
- 2.1. LOOSE TO MEDIUM DENSE SANDS

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,



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			DRAWN	SM			CA ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Mike Bestoso 4140 SE CR 18 Lake City, FL 32025	S-13
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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