ENCLOSED METAL BUILDING DESIGN
30FT WIDE X 40FT LONG X 12FT EAVE HT.

APPLICABLE CODES AND STANDARDS

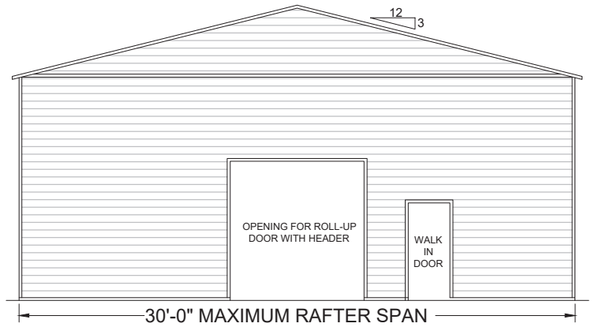
1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
2. 2021 INTERNATIONAL BUILDING CODE
3. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
5. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. TMS 402-16: BUILDING CODE REQUIREMENTS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

DESIGN LOADS

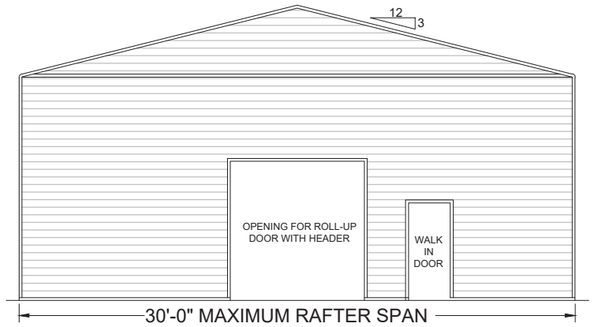
1. DEAD LOAD = 15 PSF
2. LIVE LOAD = 20 PSF
3. WIND LOAD (SEE TABLE 1)

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.
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.



TYPICAL ELEVATION - BOX EAVE
SCALE: NTS

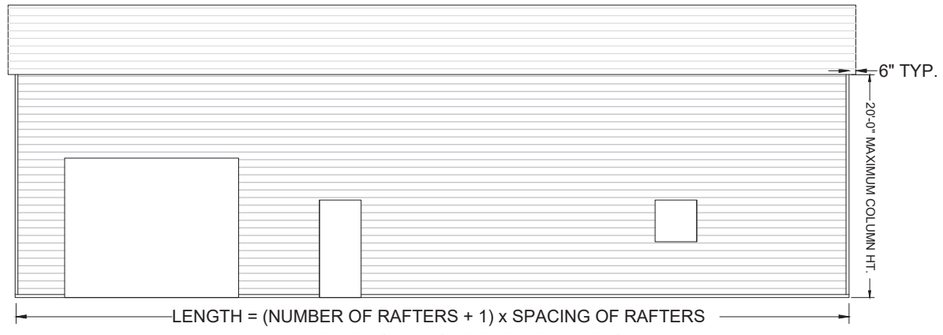


TYPICAL ELEVATION - BOW EAVE
SCALE: NTS

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.



TYPICAL SIDE ELEVATION
SCALE: NTS

DRAWING INDEX

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 TABLULATED.

PLANS PREPARED BY:
ADAM COLLINS ENGINEERING INC.
12558 BASS ROAD, LIVE OAK, FLORIDA 32060
P:386.320.7400 F: 850.807.7309
WWW.COLLINSENG.COM
CERTIFICATE OF AUTHORIZATION: 31728

Digitally signed by Adam Collins
DN: c=US, sn=Collins, givenName=Adam, email=adam@collinseng.com, cn=Adam Collins
Date: 2024.04.04 13:17:57 -04'00'

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

NO.	REVISIONS	DATE

DATE	2024.04.04
DRAWN	SM
DESIGNED	DMC
CHECKED	ATC
JOB No.	22047

SUBMITTALS	DATE

PREPARED BY: ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

CLIENT: ELITE METAL MANUFACTURING 10121 88TH TRACE

SHEET TITLE: NOTES AND SPECIFICATIONS

PROJECT: Ray Kline 2134 Herlong St. Ft. White, FL 32038

SHEET NO.: S-1

SCALE: AS-SHOWN

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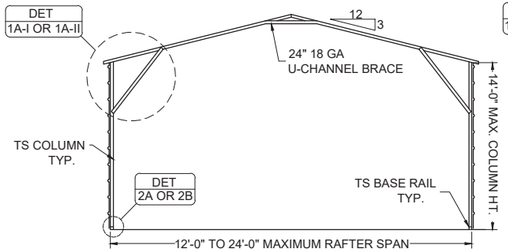

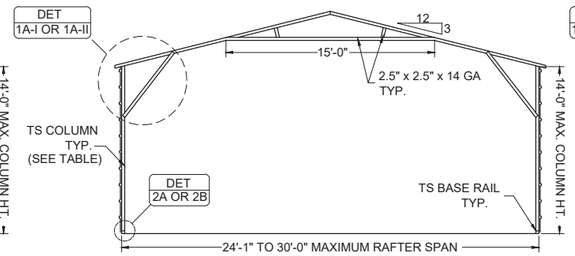

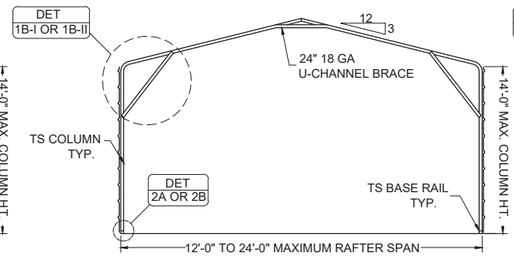

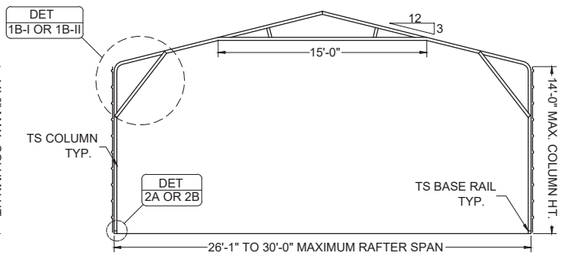

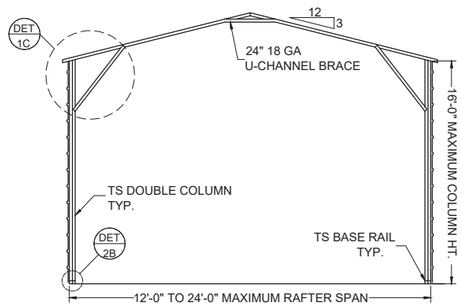

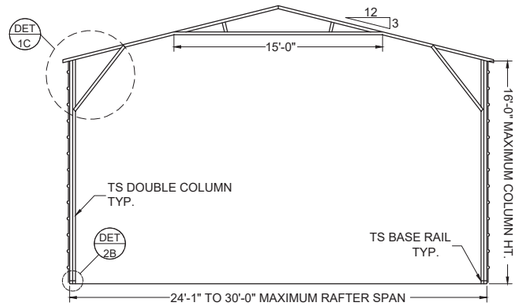

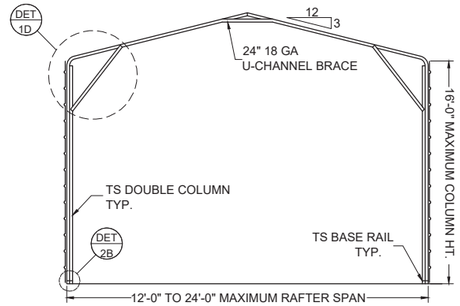

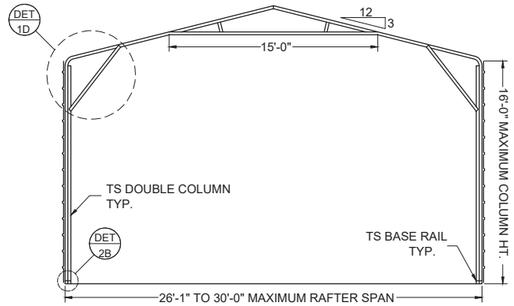

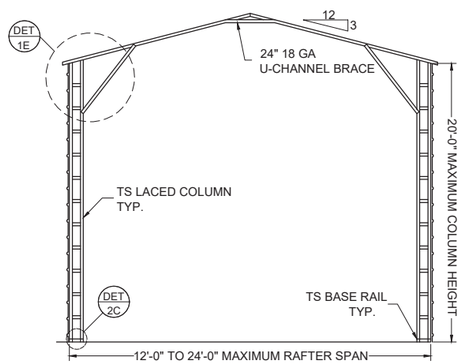

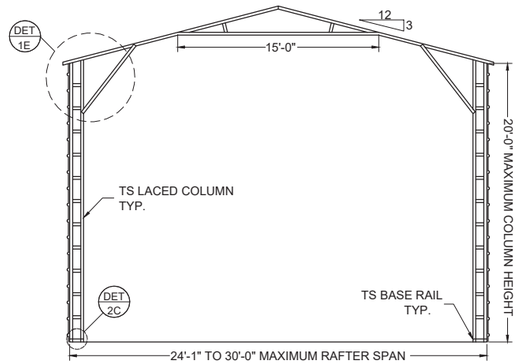

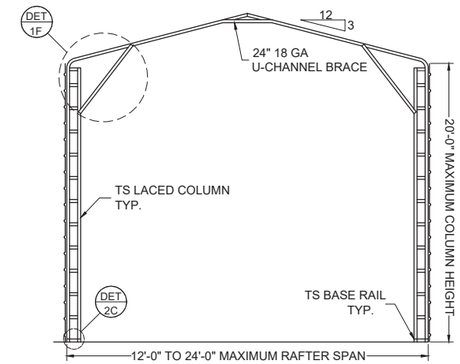

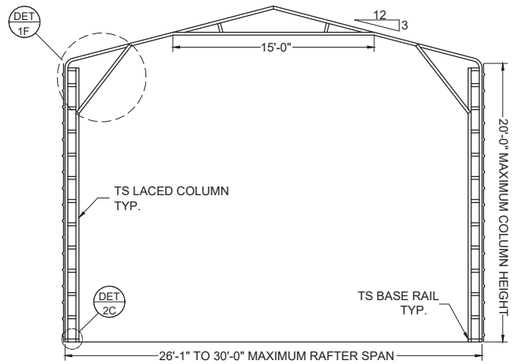

BOX EAVE FRAME

SCALE: NTS

BOW EAVE FRAME

SCALE: NTS

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NO.	REVISIONS	DATE

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CHECKED	ATC
JOB No.	22047

SUBMITTALS	DATE

PREPARED BY
ADAM COLLINS ENGINEERING INC.
CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-2

SCALE
AS-SHOWN

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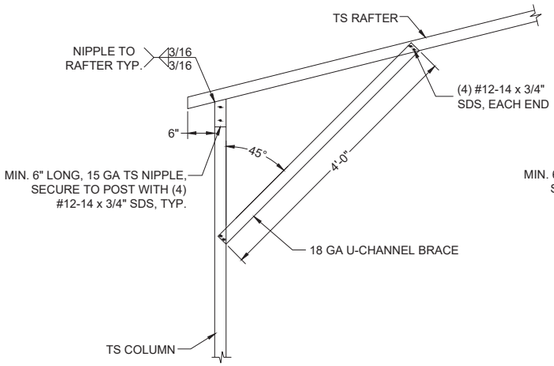

1A-I BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 14'H
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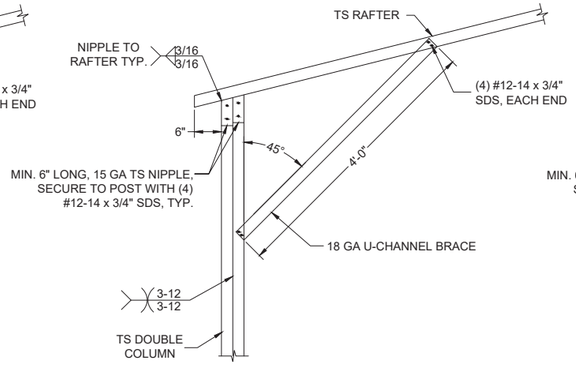
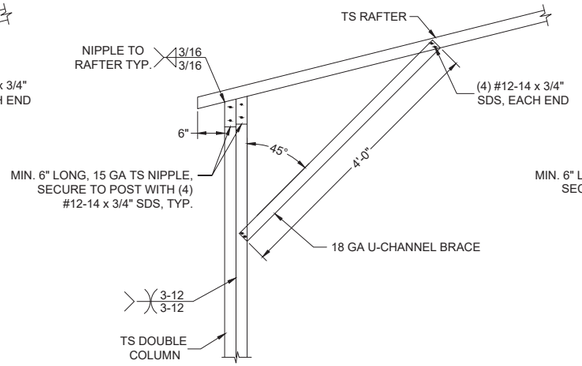
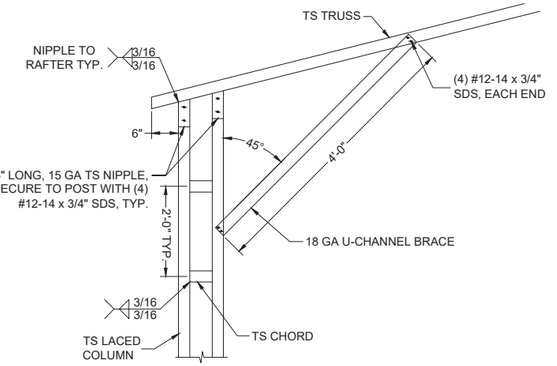


1A-II BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



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

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS (1 OF 4)

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-3

SCALE
AS-SHOWN

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GENERAL NOTES

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

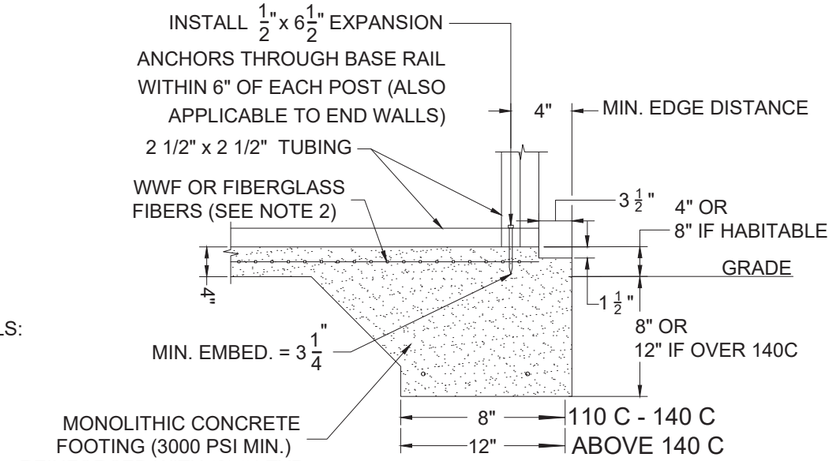
REINFORCING STEEL

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,

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

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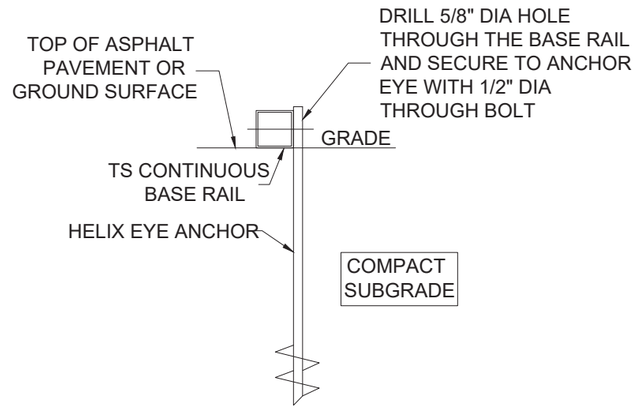

3B GROUND BASE HELIX ANCHORAGE

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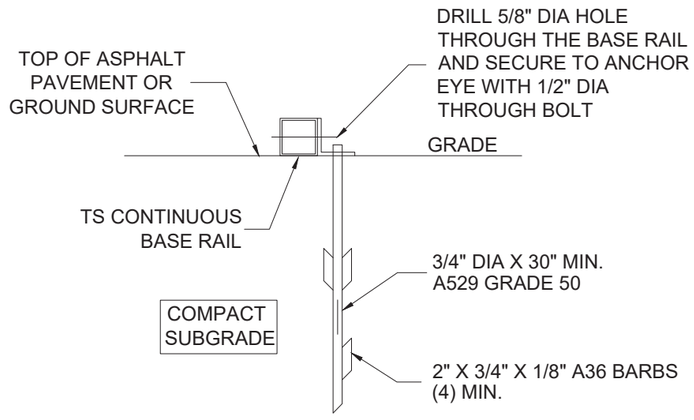
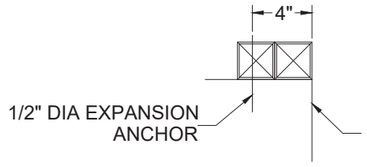
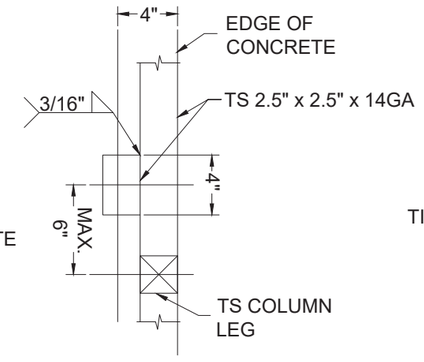


3C ASPHALT BASE ANCHORAGE (HP 9 BARBED DRIVE ANCHOR)

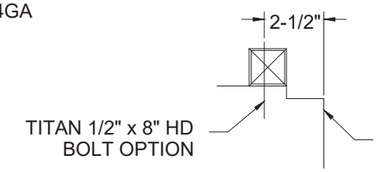
SCALE: NTS



SECTION (OPTION-1)



TOP VIEW (OPTION-1)



SECTION (OPTION-2)

TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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SUBMITTALS	DATE

PREPARED BY
ADAM COLLINS ENGINEERING INC.
CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BASE RAIL AND ANCHORAGE DETAILS

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-4

SCALE
AS-SHOWN

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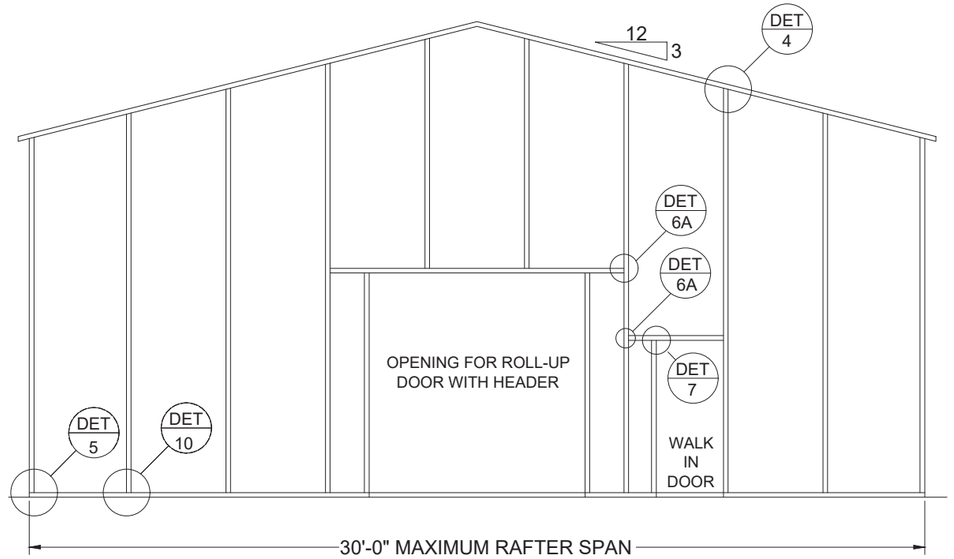
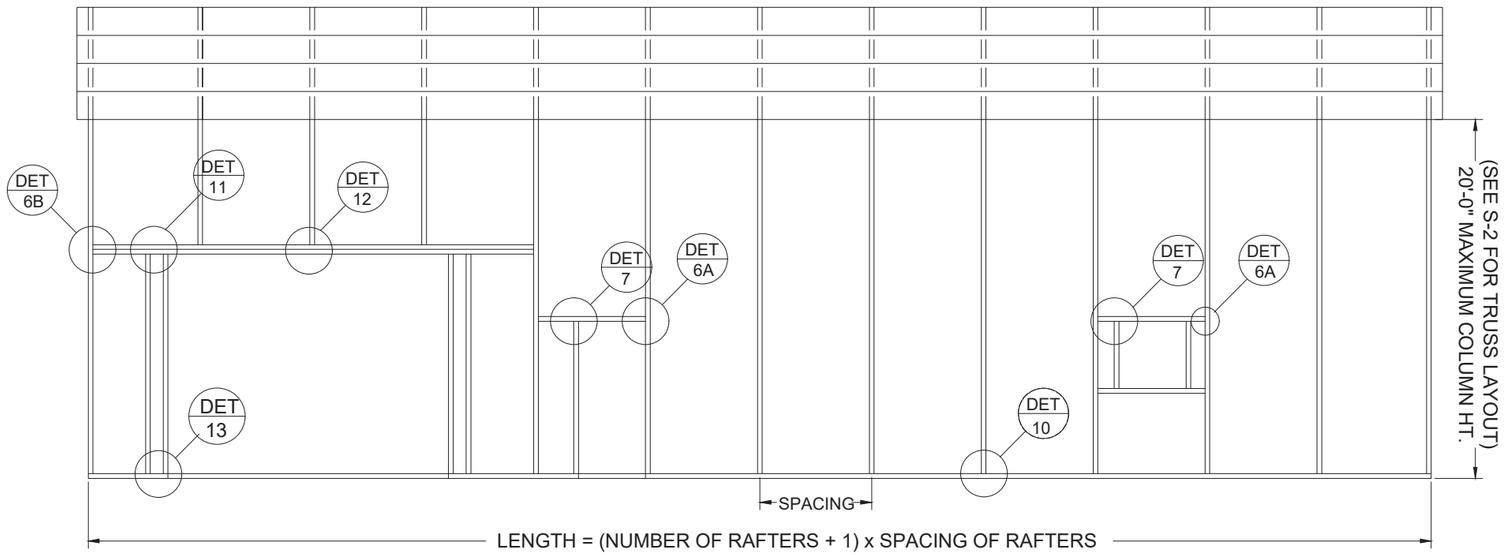


SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

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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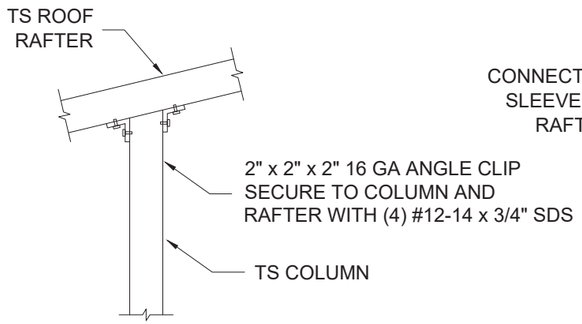
CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING

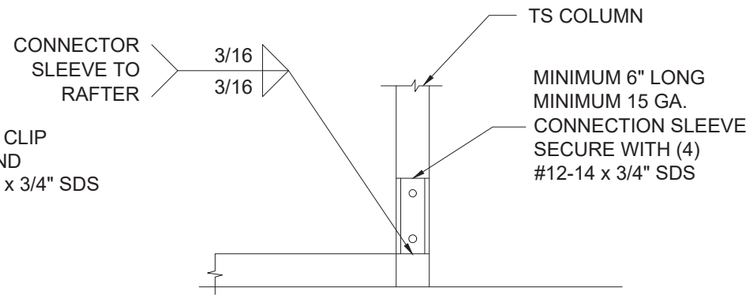
PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-5

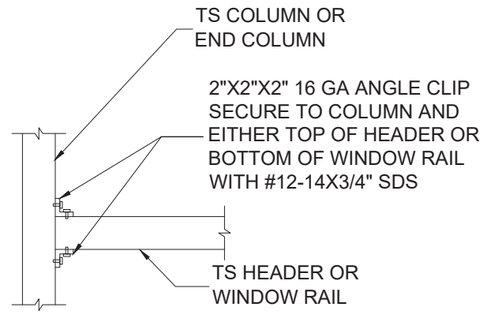
SCALE
AS-SHOWN



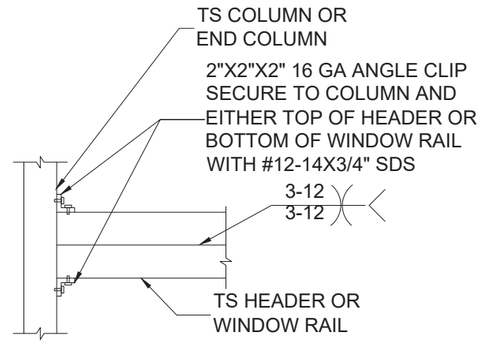
4 POST/RAFTER CONNECTION
SCALE: NTS



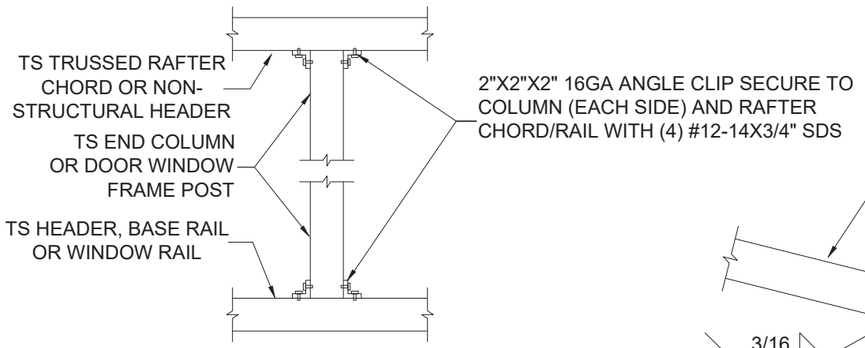
5 POST/BASE RAIL CONNECTION
SCALE: NTS



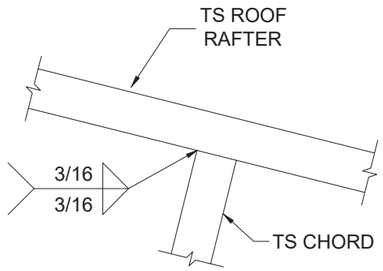
6A HEADER TO POST CONNECTION
SCALE: NTS



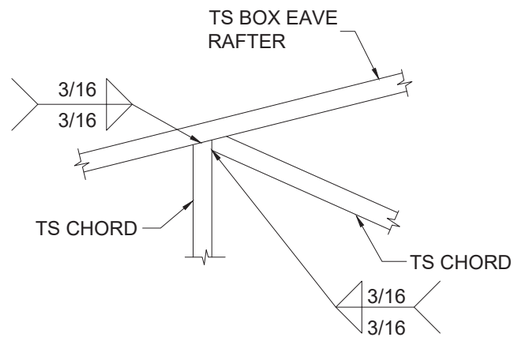
6B DOUBLE HEADER TO POST CONNECTION
SCALE: NTS



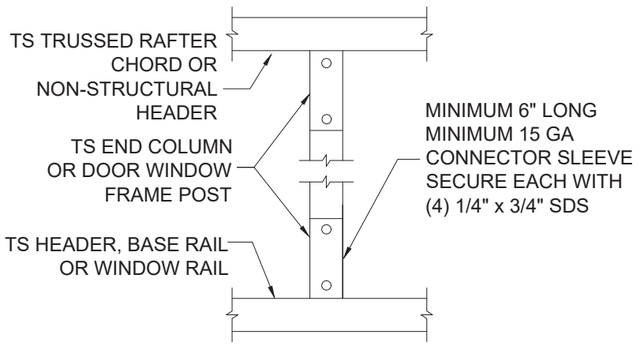
7 POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION
SCALE: NTS



8 RAFTER TO CHORD CONNECTION
SCALE: NTS



9 TRUSS POST AND CHORD TO RAFTER CONNECTION
SCALE: NTS



10 POST TO HEADER, BASE RAIL CONNECTION
SCALE: NTS

NO.	REVISIONS	DATE

DATE	2024.04.04
DRAWN	SM
DESIGNED	DMC
CHECKED	ATC
JOB No.	22047

SUBMITTALS	DATE

PREPARED BY
ADAM COLLINS ENGINEERING INC.
CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS (2 OF 4)

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-6

SCALE
AS-SHOWN

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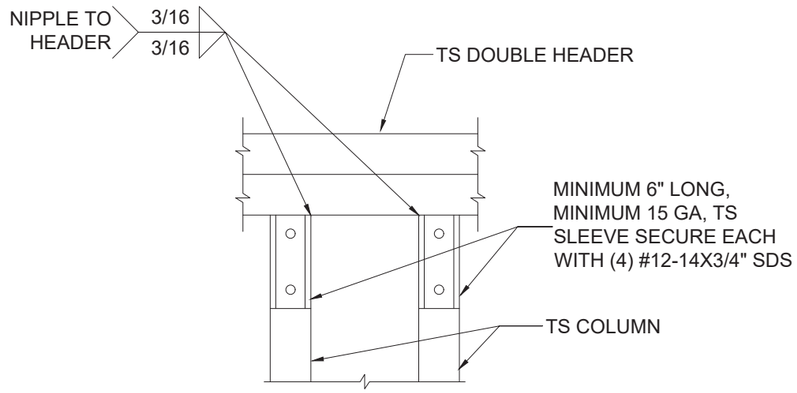
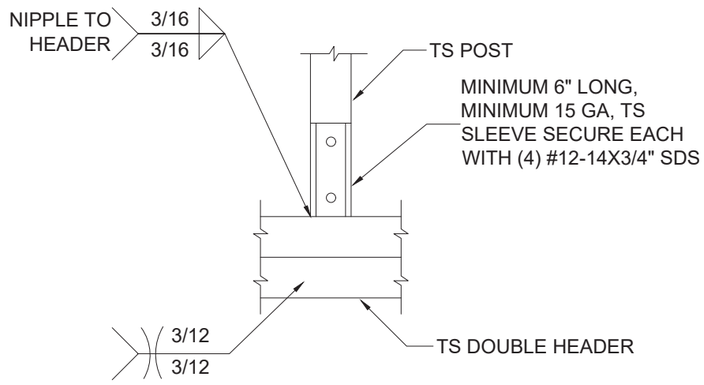


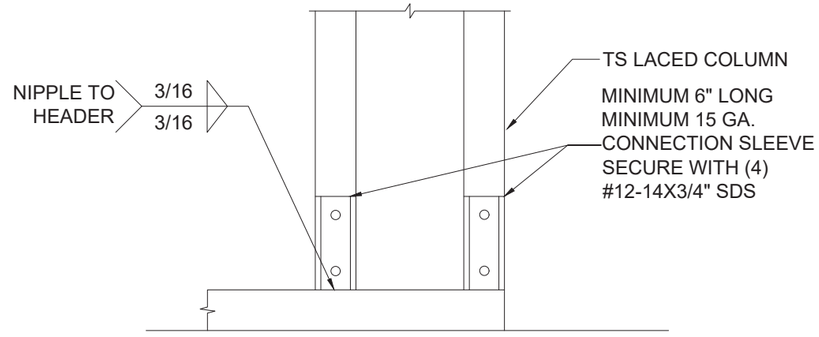
11 DOUBLE HEADER TO POST CONNECTION

SCALE: NTS



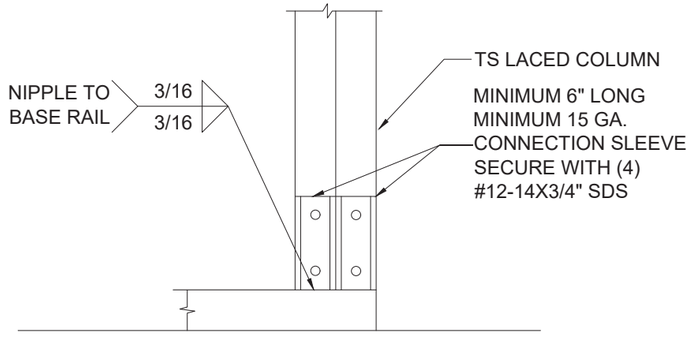
12 POST/DOUBLE HEADER CONNECTION

SCALE: NTS



13A POST/BASE RAIL CONNECTION

SCALE: NTS



13B POST/BASE RAIL CONNECTION

SCALE: NTS

NO.	REVISIONS	DATE

DATE	2024.04.04
DRAWN	SM
DESIGNED	DMC
CHECKED	ATC
JOB No.	22047

SUBMITTALS	DATE

PREPARED BY
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CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS (3 OF 4)

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-7

SCALE
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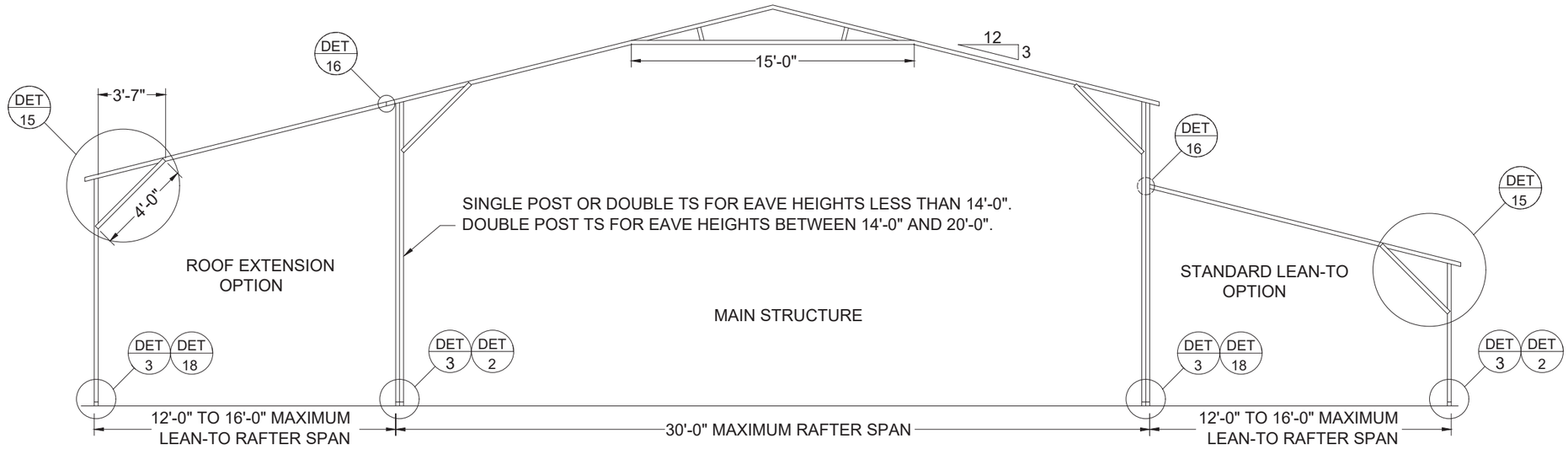
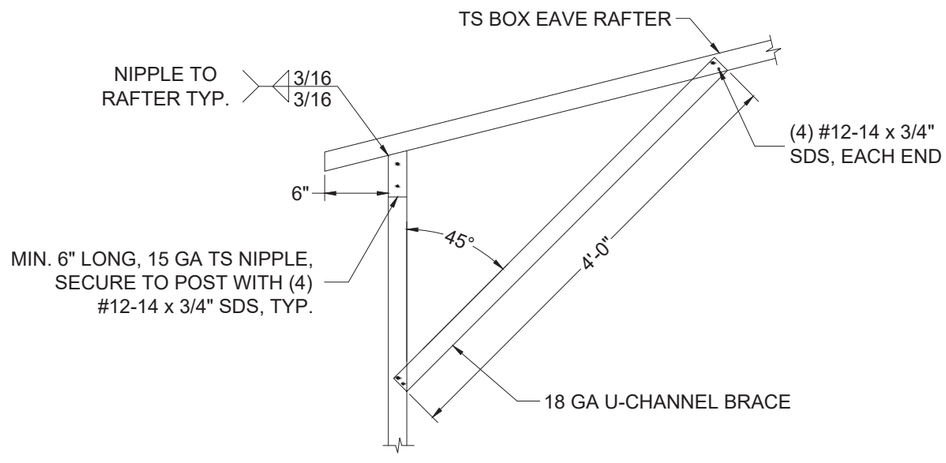


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS



15 LEAN-TO RAFTER/CORNER POST CONNECTION

SCALE: NTS

NO.	REVISIONS	DATE

DATE	2024.04.04
DRAWN	SM
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JOB No.	22047

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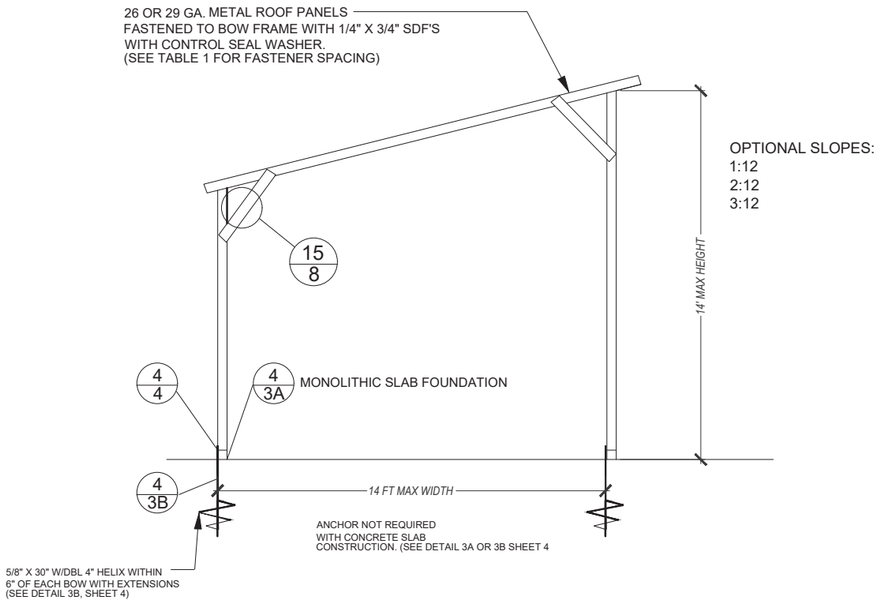
CLIENT: ELITE METAL MANUFACTURING 10121 88TH TRACE

SHEET TITLE: BOX EAVE RAFTER LEAN TO OPTIONS

PROJECT: Ray Kline 2134 Herlong St. Ft. White, FL 32038

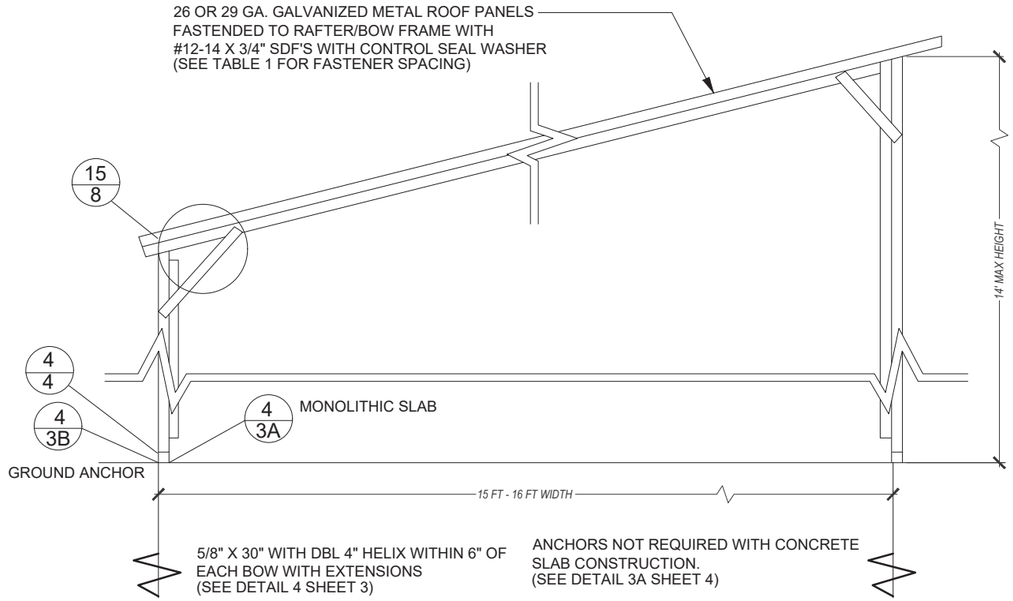
SHEET NO.: S-8

SCALE: AS-SHOWN



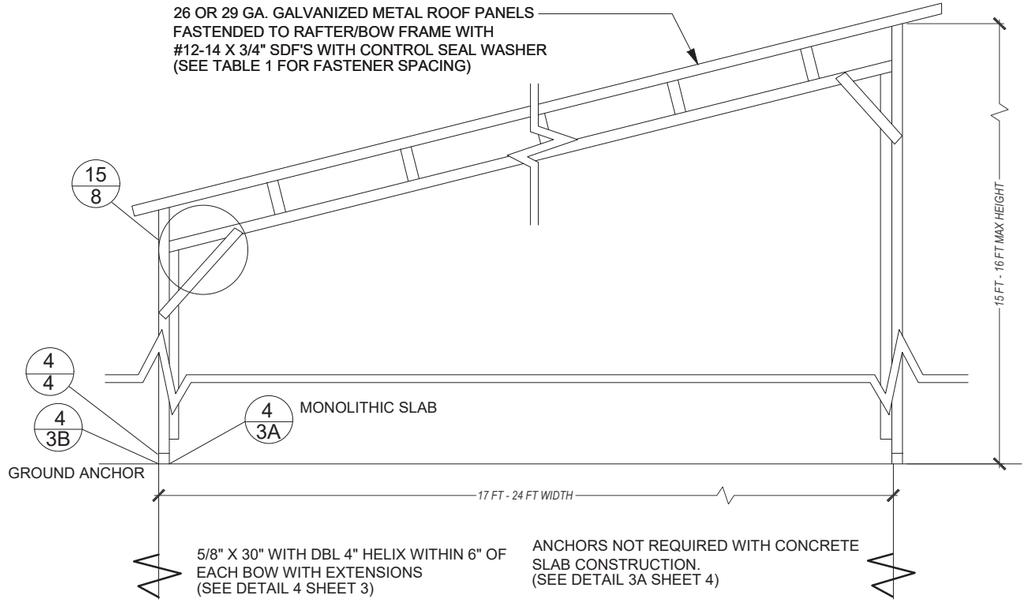
14 FT MAX WIDTH FREESTANDING LEAN-TO

SCALE: NTS



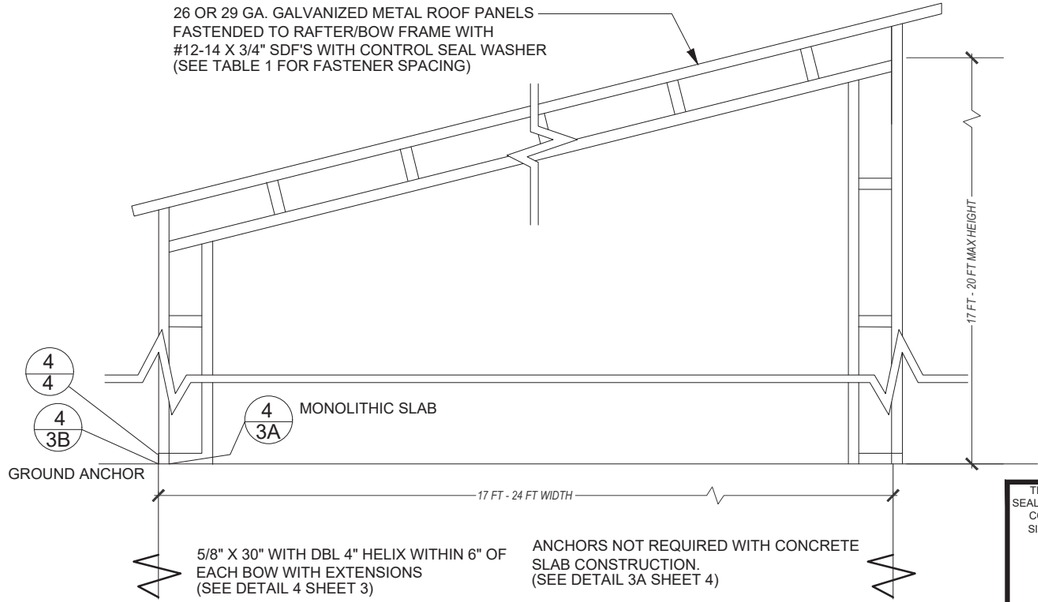
15 FT - 16 FT WIDTH FREESTANDING LEAN-TO LEAN-TO

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

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DATE	~~2023/04/04~~
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CHECKED	ATC
JOB No.	22047

SUBMITTALS	DATE

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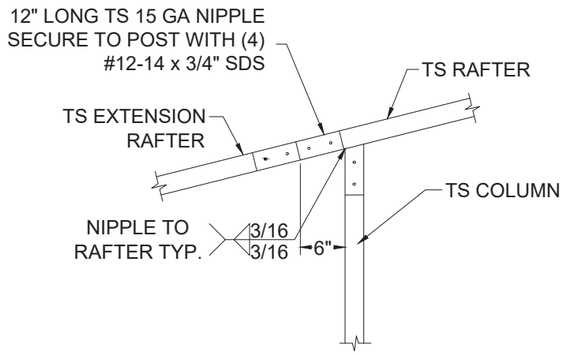
CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

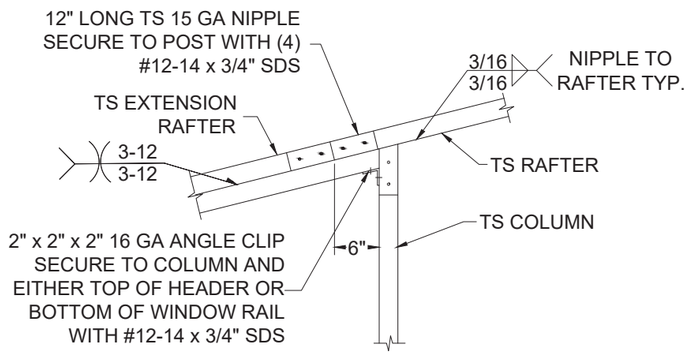
SHEET NO.
S-9

SCALE
AS-SHOWN



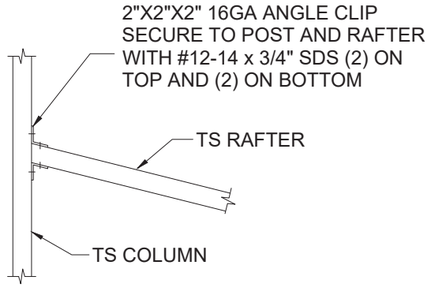
16A SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN LESS THAN 12'-0"

SCALE: NTS



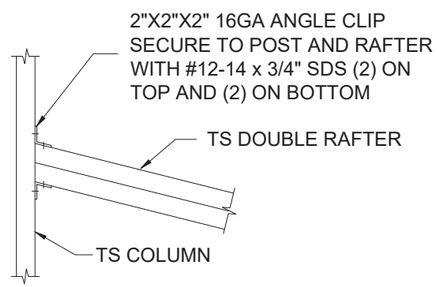
16B SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"

SCALE: NTS



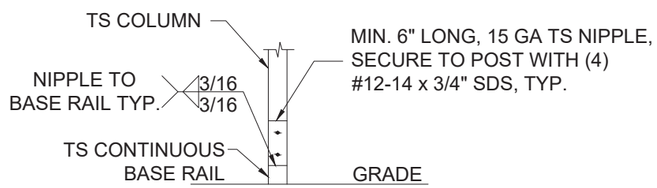
17B LEAN TO RAFTER/COLUMN CONNECTION
RAFTER SPANLESS THAN 12'-0"

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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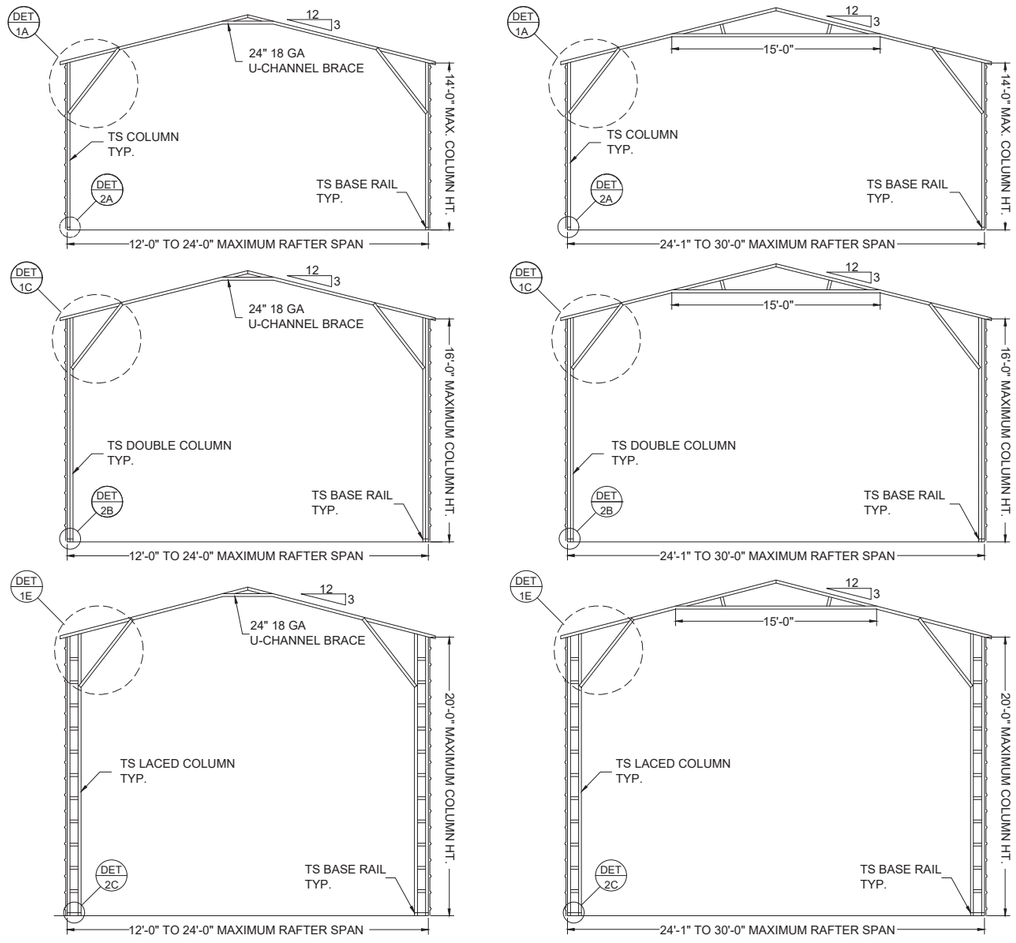
CLIENT
ELITE METAL
MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS
(4 OF 4)

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

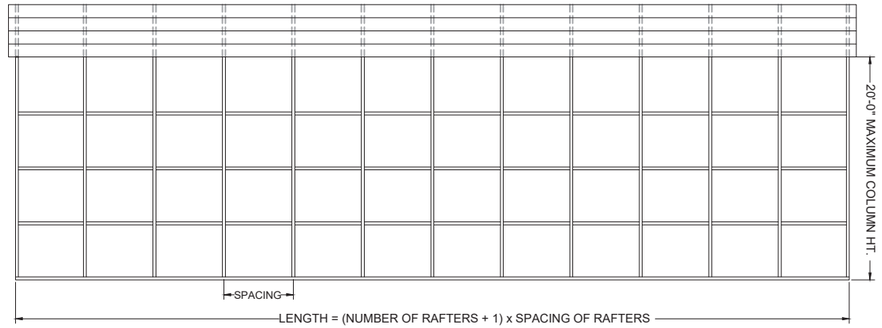
SHEET NO.
S-10

SCALE
AS-SHOWN



BOX EAVE FRAME

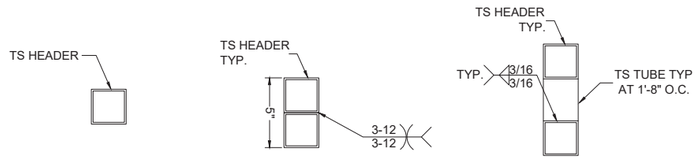
SCALE: NTS



SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

TYPICAL SIDE FRAME SECTION

SCALE: NTS



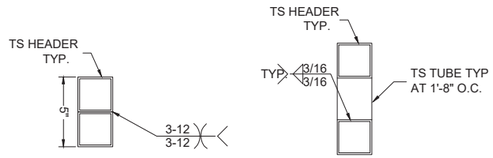
HEADER DETAIL FOR OPENINGS
LENGTH <= 8'-0"

HEADER DETAIL FOR OPENINGS
8'-0" < LENGTH <= 12'-0"

HEADER DETAIL FOR OPENINGS
10'-0" < LENGTH <= 20'-0"

SIDE WALL OPTION HEADER

SCALE: NTS

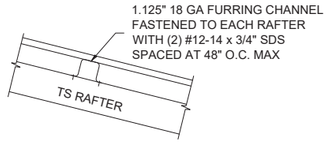


HEADER DETAIL FOR OPENINGS
LENGTH <= 12'-0"

HEADER DETAIL FOR OPENINGS
10'-0" < LENGTH <= 20'-0"

END WALL OPTION HEADER

SCALE: NTS



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

NO.	REVISIONS	DATE

DATE	2024.04.04
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JOB No.	22047

SUBMITTALS	DATE

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CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-11

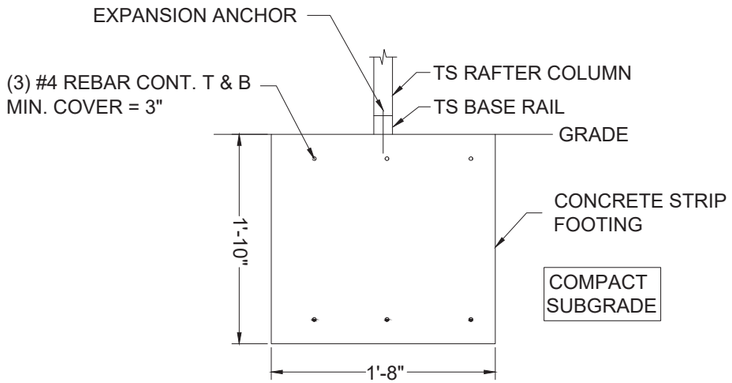
SCALE
AS-SHOWN

GENERAL NOTES

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

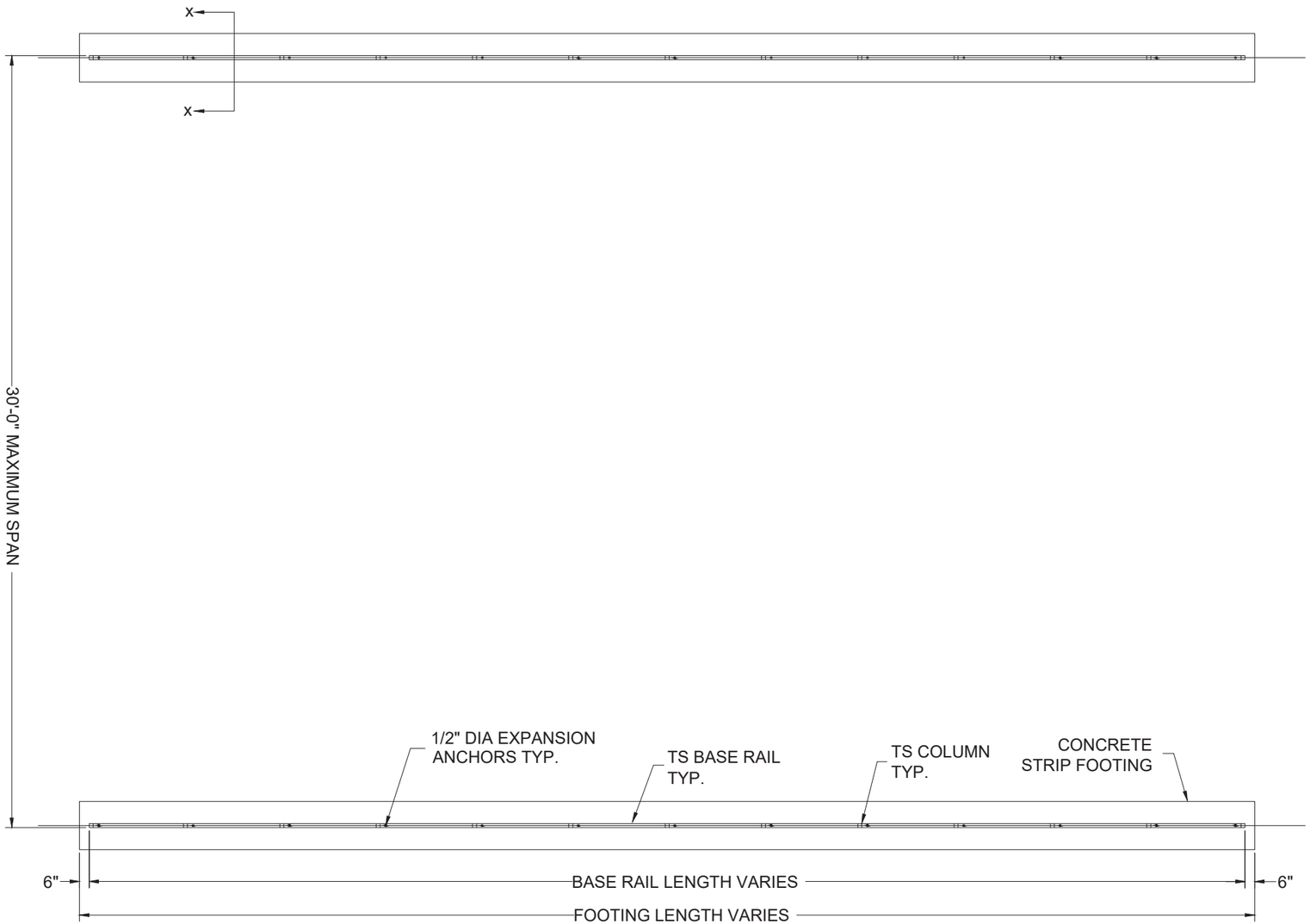
REINFORCING STEEL

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.



SECTION X-X

SCALE: NTS



CONCRETE STRIP FOOTING PLAN

SCALE: NTS

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CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
OPTIONAL CONCRETE STRIP FOOTING

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-12

SCALE
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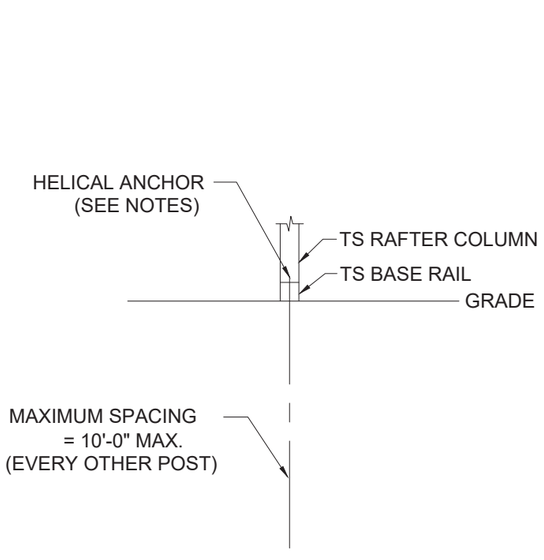
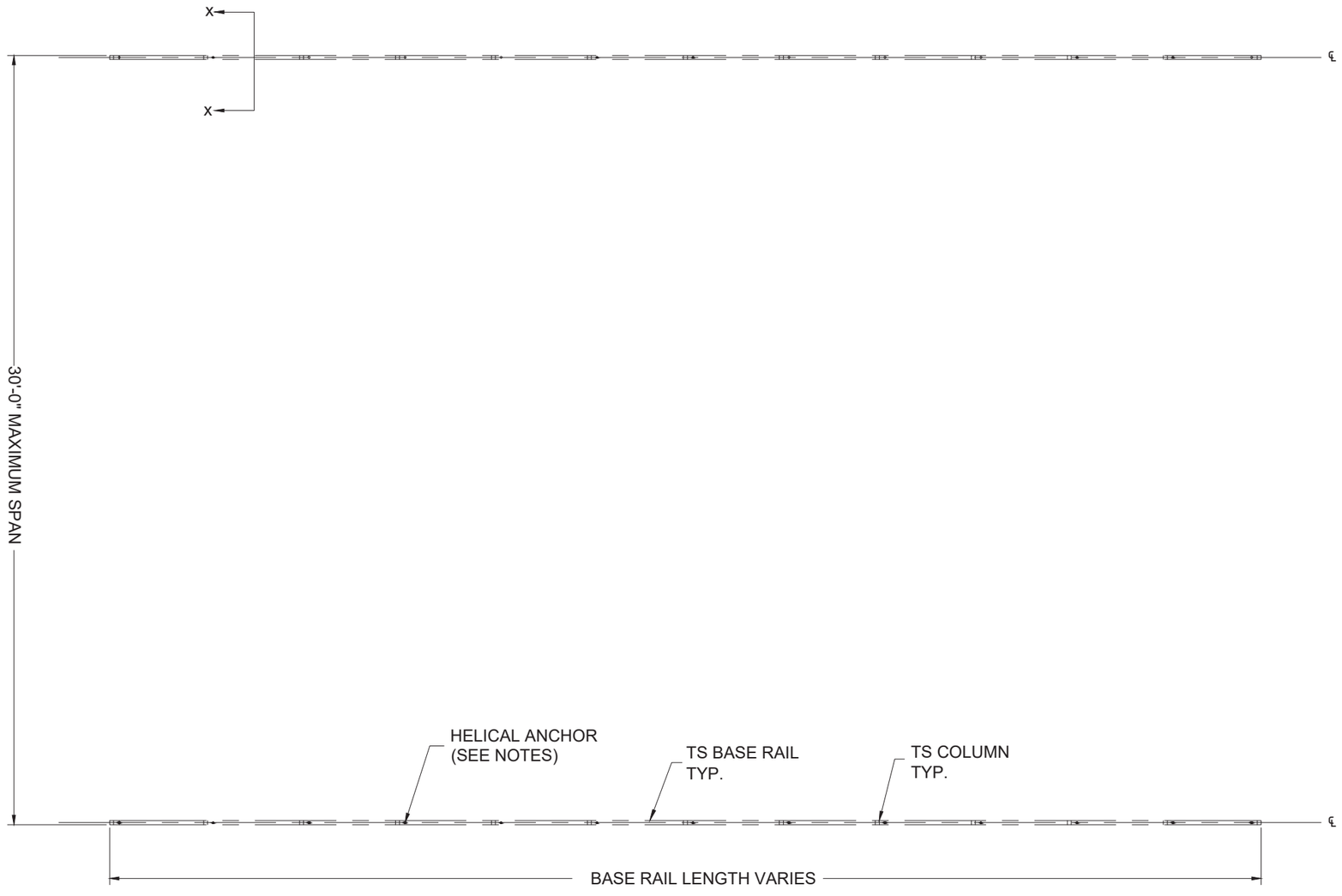
HELIX ANCHOR NOTES

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,



SECTION X-X
SCALE: NTS



BASE RAIL PLAN
SCALE: NTS

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CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
OPTIONAL HELICAL ANCHORING DETAIL

PROJECT
Ray Kline
2134 Herlong St.
Ft. White, FL 32038

SHEET NO.
S-13

SCALE
AS-SHOWN

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