

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

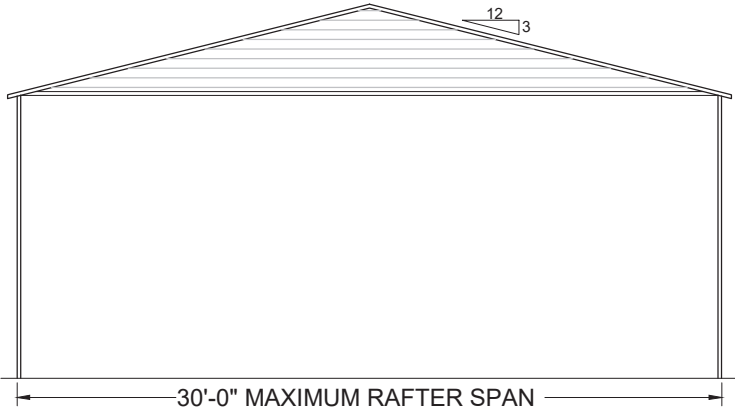
INSTALLATION NOTES AND SPECIFICATIONS

- 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.

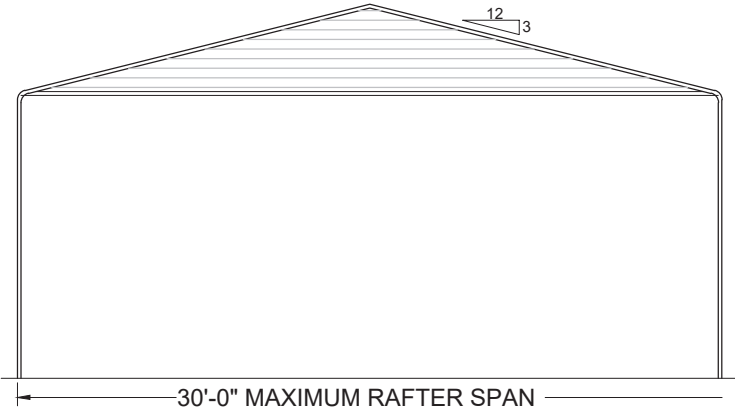
DESIGN LOADS

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

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



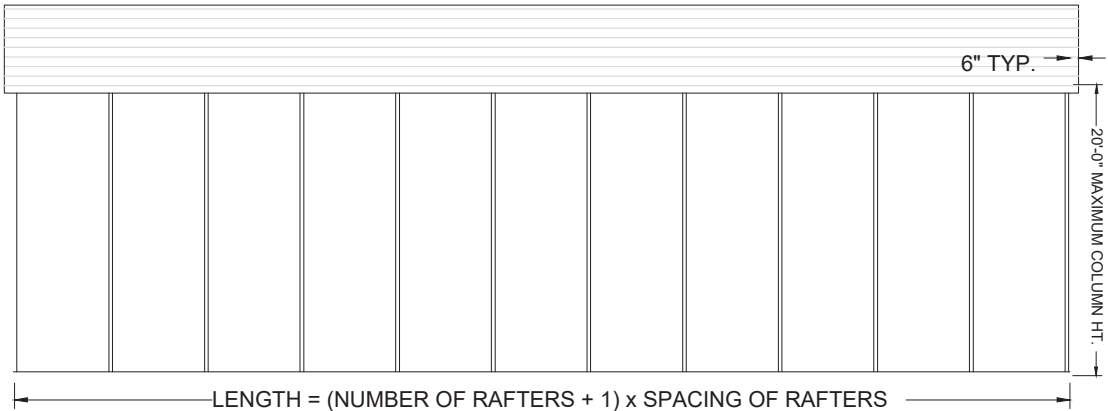
TYPICAL ELEVATION - BOX EAVE  
SCALE: NTS



TYPICAL ELEVATION - BOW EAVE  
SCALE: NTS

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

| TABLE 1<br>BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER<br>SPACING SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                               |                                   |                                                         |                                                               |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-----------------------------------|---------------------------------------------------------|---------------------------------------------------------------|---------------------|
| RISK<br>CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WIND<br>EXPOSURE<br>CATEGORY | ULT<br>WIND<br>SPEED<br>(MPH) | NOMINAL<br>WIND<br>SPEED<br>(MPH) | MAXIMUM<br>RAFTER/BOW<br>AND END POST<br>SPACING (FEET) | FASTENER SPACING O.C FOR<br>RAFTERS/PURLINS, & POSTS (INCHES) |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                               |                                   |                                                         | INTERIOR<br>BOWS/RAFTERS                                      | END<br>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:<br>1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GAUGE STEEL TUBE BOW FRAMES.<br>2. FASTENERS CONSIST OF 1/4"-14X1" SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.<br>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.<br>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.<br>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.

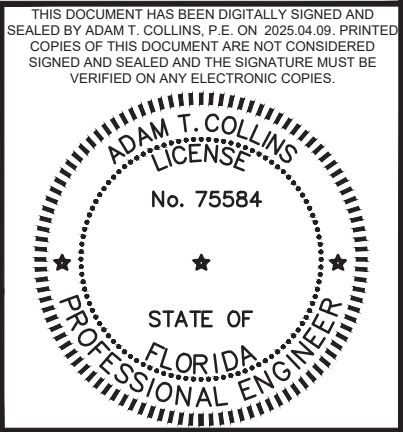
TABLE 3

| 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  |

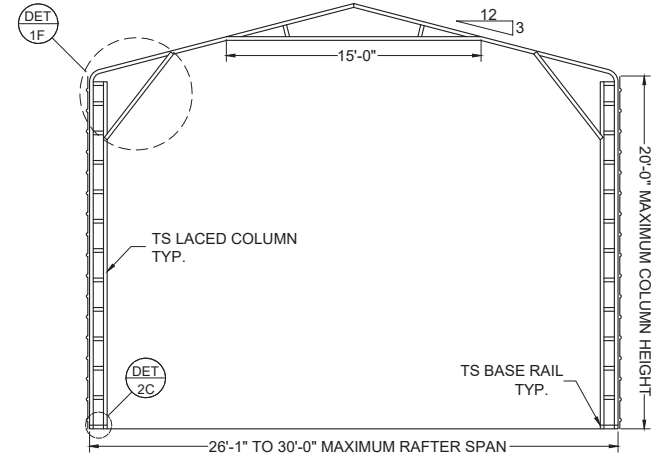
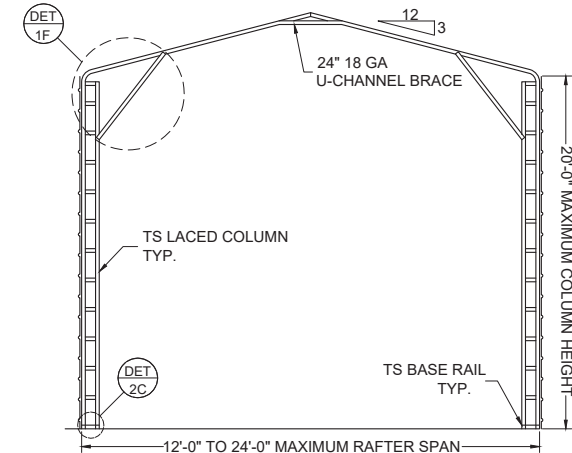
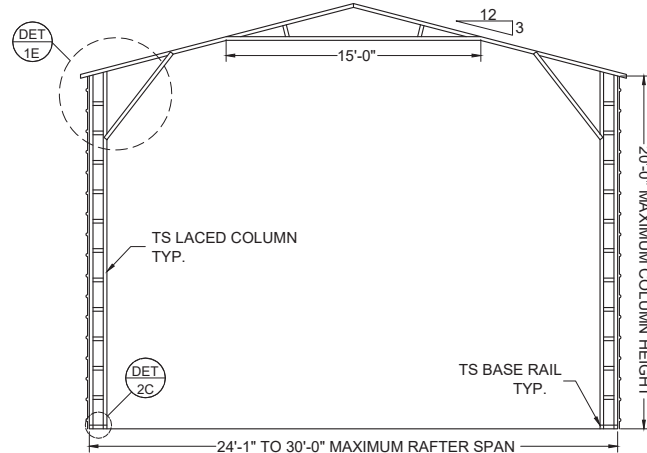
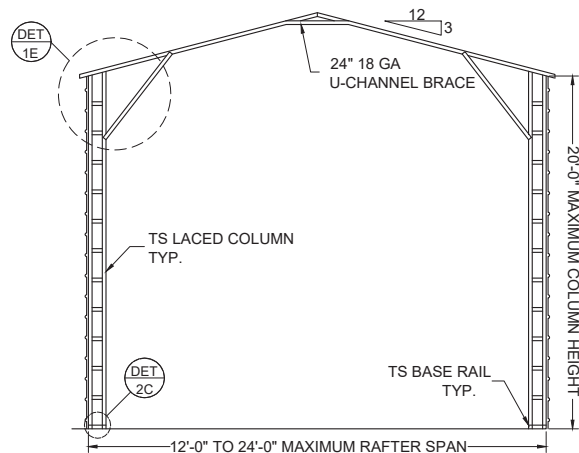
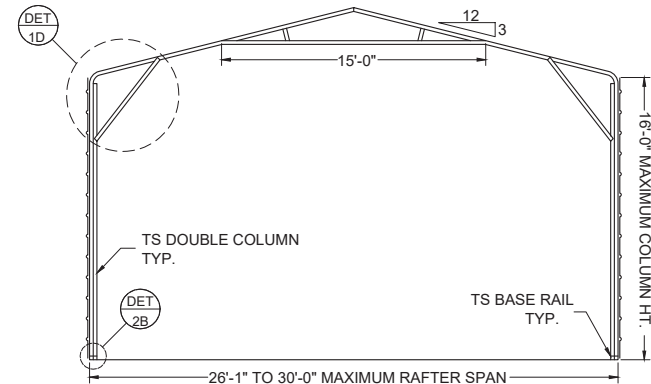
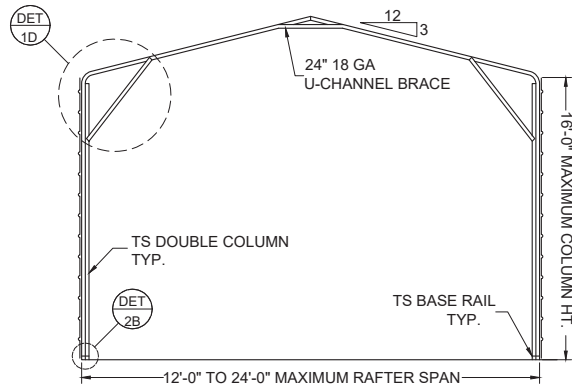
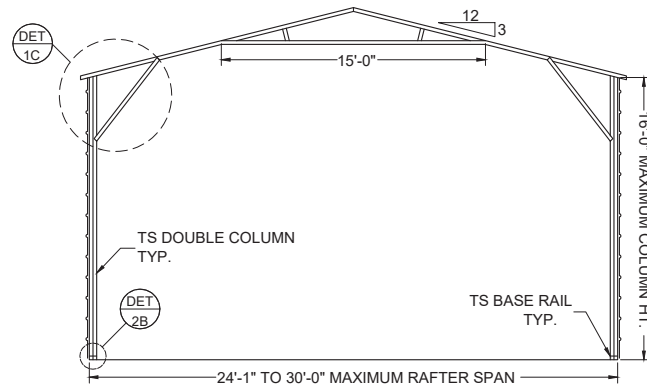
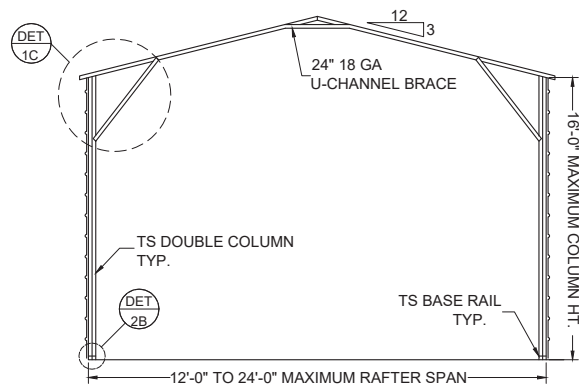
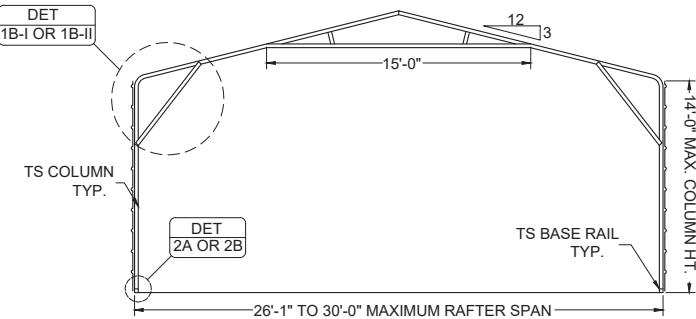
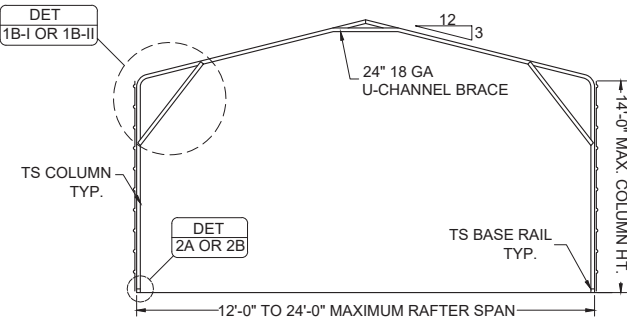
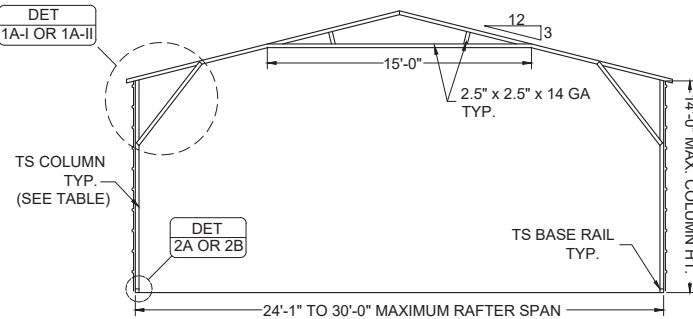
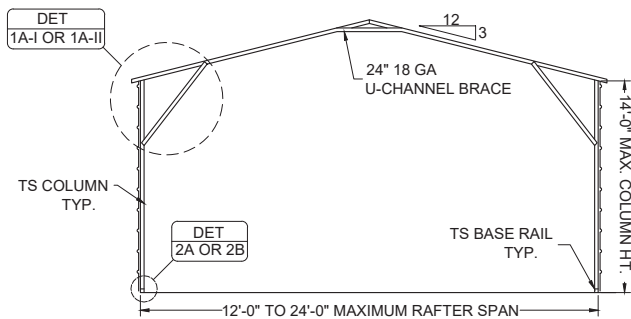
DRAWING INDEX

| 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     | 2025.04.09 | SUBMITTALS | DATE | PREPARED BY                                                                                                                                                                                      | CLIENT                                           | SHEET TITLE                 | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |      |  <b>ADAM COLLINS</b><br>ENGINEERING INC.<br><small>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</small> | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | NOTES AND<br>SPECIFICATIONS | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-1       |
|     |           |      | DESIGNED | DMC        |            |      |                                                                                                                                                                                                  |                                                  |                             |                                                             | SCALE     |
|     |           |      | CHECKED  | ATC        |            |      |                                                                                                                                                                                                  |                                                  |                             |                                                             | AS-SHOWN  |
|     |           |      | JOB No.  | 22047      |            |      |                                                                                                                                                                                                  |                                                  |                             |                                                             |           |
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## BOX EAVE FRAME

SCALE: NTS

## BOW EAVE FRAME

SCALE: NTS

| NO. | REVISIONS | DATE          | DATE |
|-----|-----------|---------------|------|
|     |           | 2025.04.09    |      |
|     |           | DRAWN SM      |      |
|     |           | DESIGNED DMC  |      |
|     |           | CHECKED ATC   |      |
|     |           | JOB No. 22047 |      |

| SUBMITTALS | DATE |
|------------|------|
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PREPARED BY

**ADAM COLLINS**  
ENGINEERING INC.

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| CLIENT                                           |
|--------------------------------------------------|
| ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE |

| SHEET TITLE                                  |
|----------------------------------------------|
| BOX-BOW EAVE<br>FRAME RAFTER OPEN<br>CARPORT |

| PROJECT                                                     |
|-------------------------------------------------------------|
| Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 |

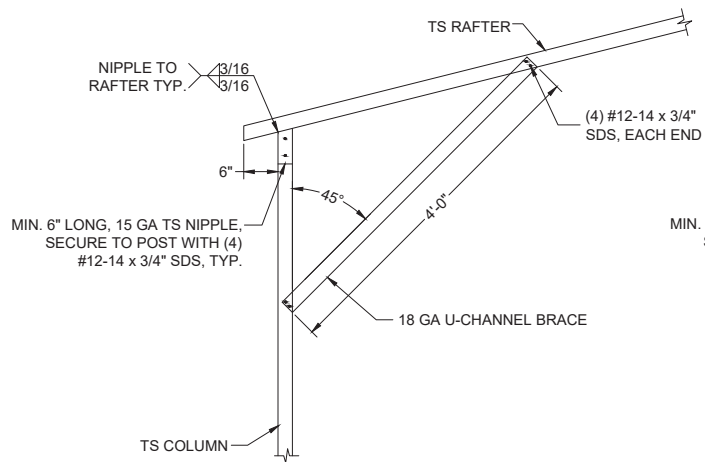
| SHEET NO. |
|-----------|
| S-2       |
| SCALE     |
| AS-SHOWN  |

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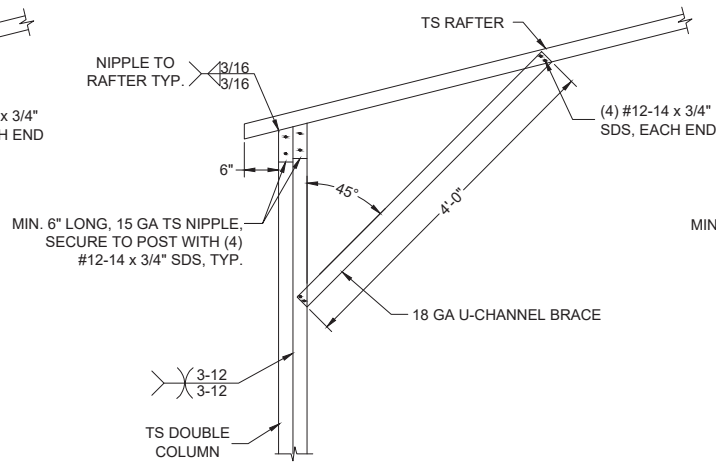
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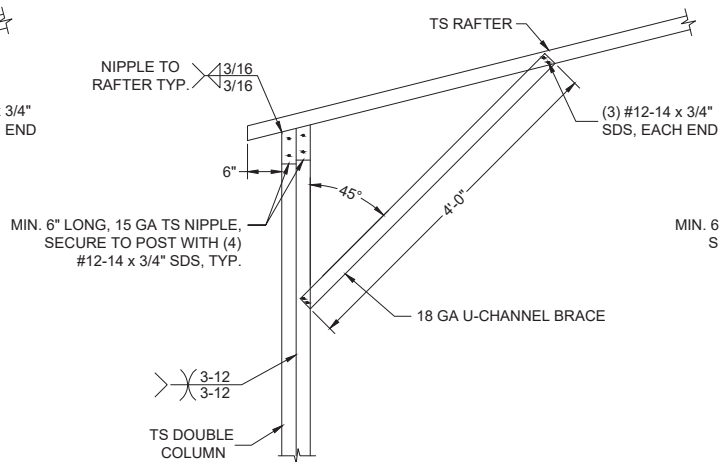
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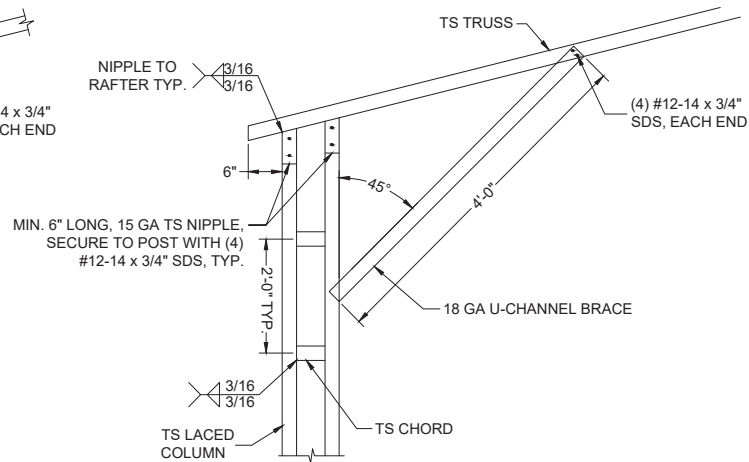
1A-I BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



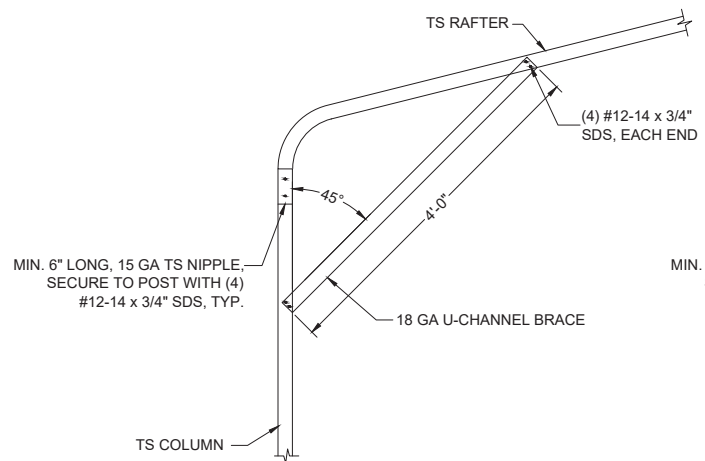
1A-II BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



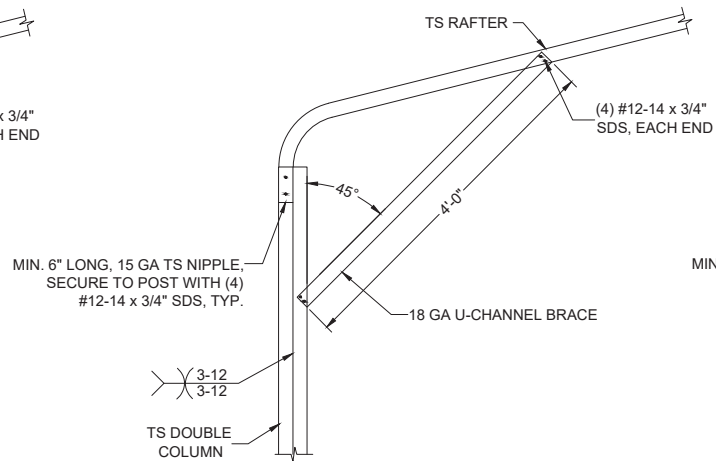
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CONNECTION 30'(MAX.)W x 16'H  
SCALE: NTS



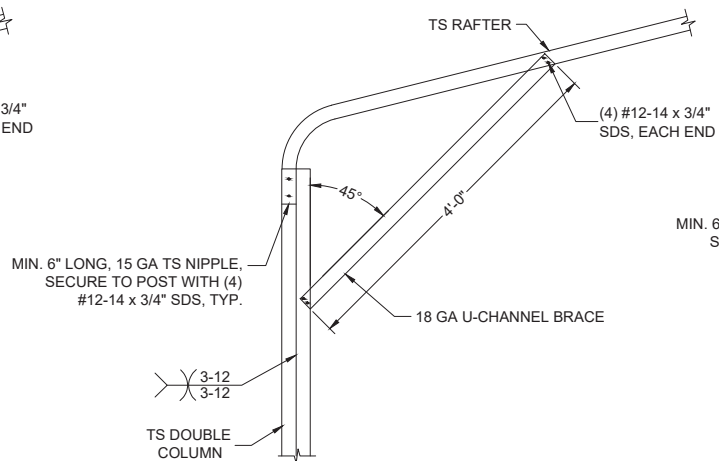
1E BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 20'H  
SCALE: NTS



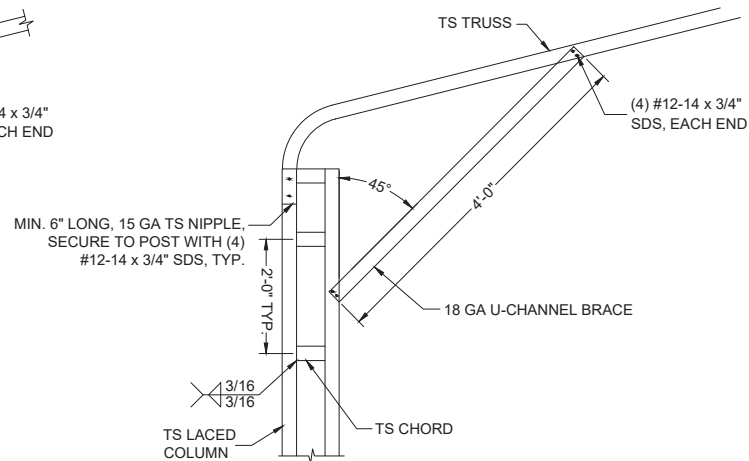
1B-I BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



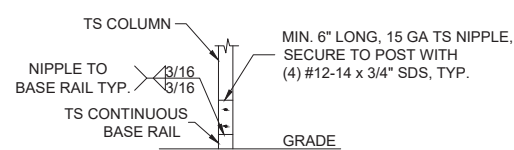
1B-II BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



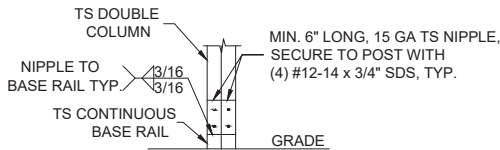
1D BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 16'H  
SCALE: NTS



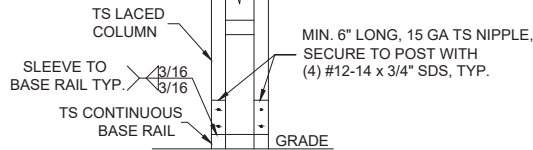
1F BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 20'H  
SCALE: NTS



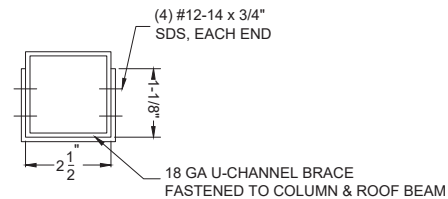
2A POST/BASE RAIL CONNECTION  
SCALE: NTS



2B POST/BASE RAIL CONNECTION  
SCALE: NTS

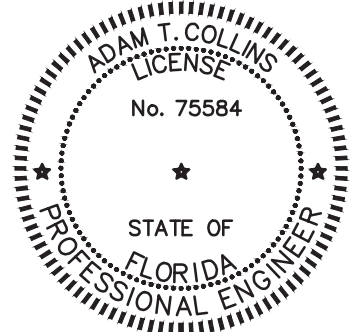


2C POST/BASE RAIL CONNECTION  
SCALE: NTS



BRACE SECTION  
SCALE: NTS

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|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                   |                                                  |                                |                                                             |           |
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|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                   |                                                  |                                |                                                             |           |

GENERAL NOTES

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

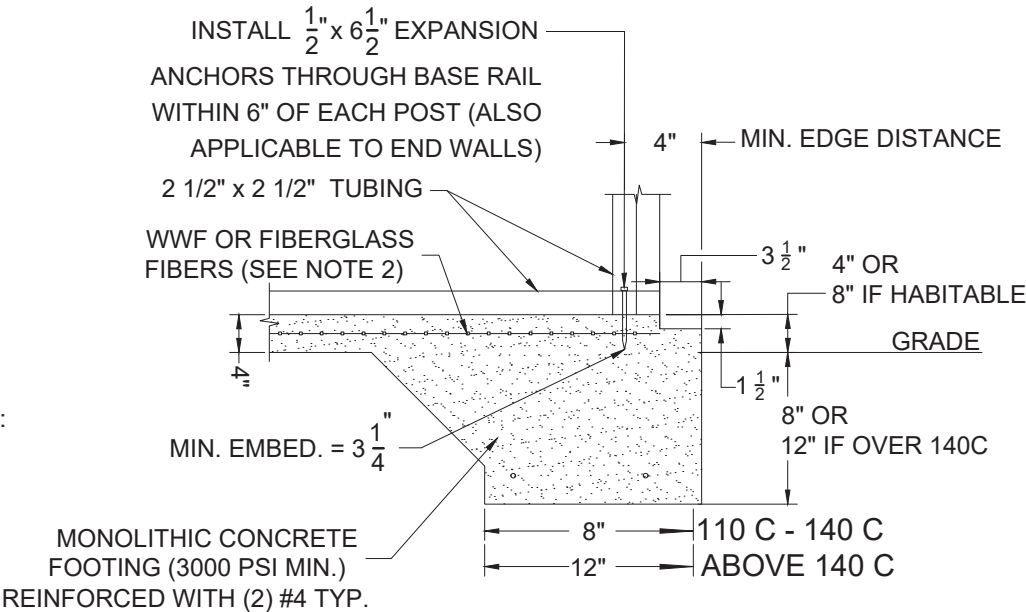
REINFORCING STEEL

- 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.

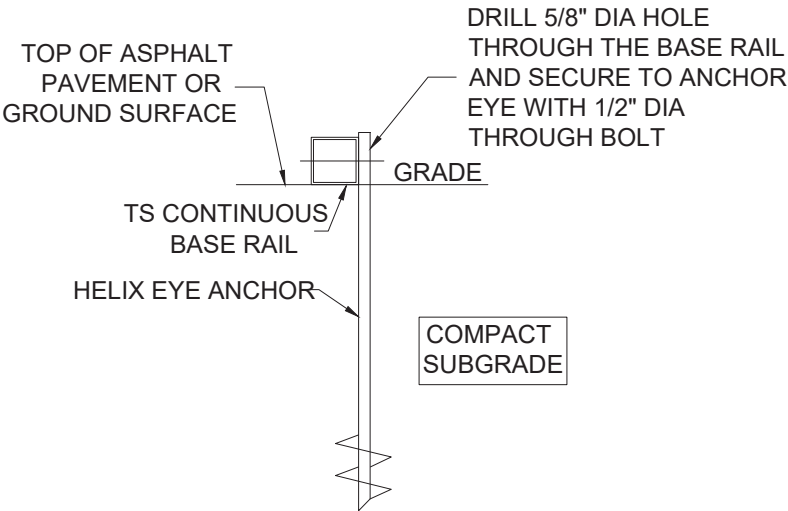
HELIX ANCHOR NOTES

- 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,

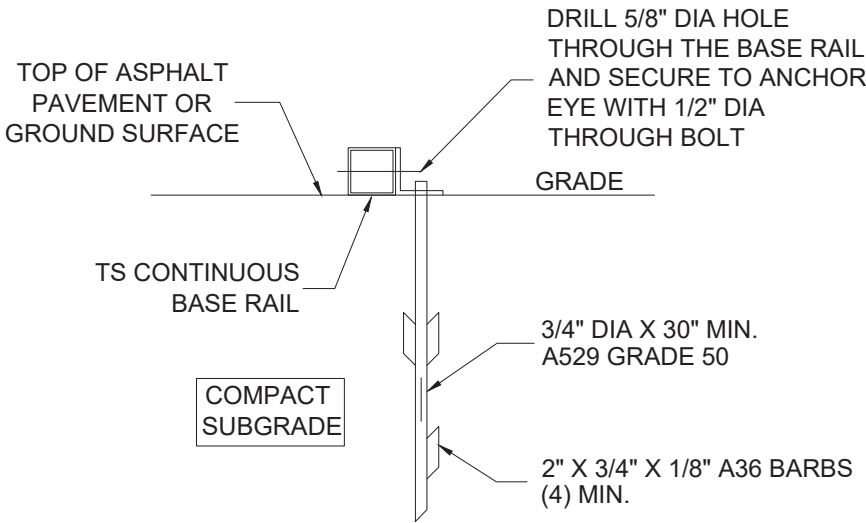
| MONOLITHIC FOOTER SIZE |                    |
|------------------------|--------------------|
| 110 C - 140 C          | 8" x 12" - (2) #4  |
| ABOVE 140 C            | 12" x 16" - (2) #4 |



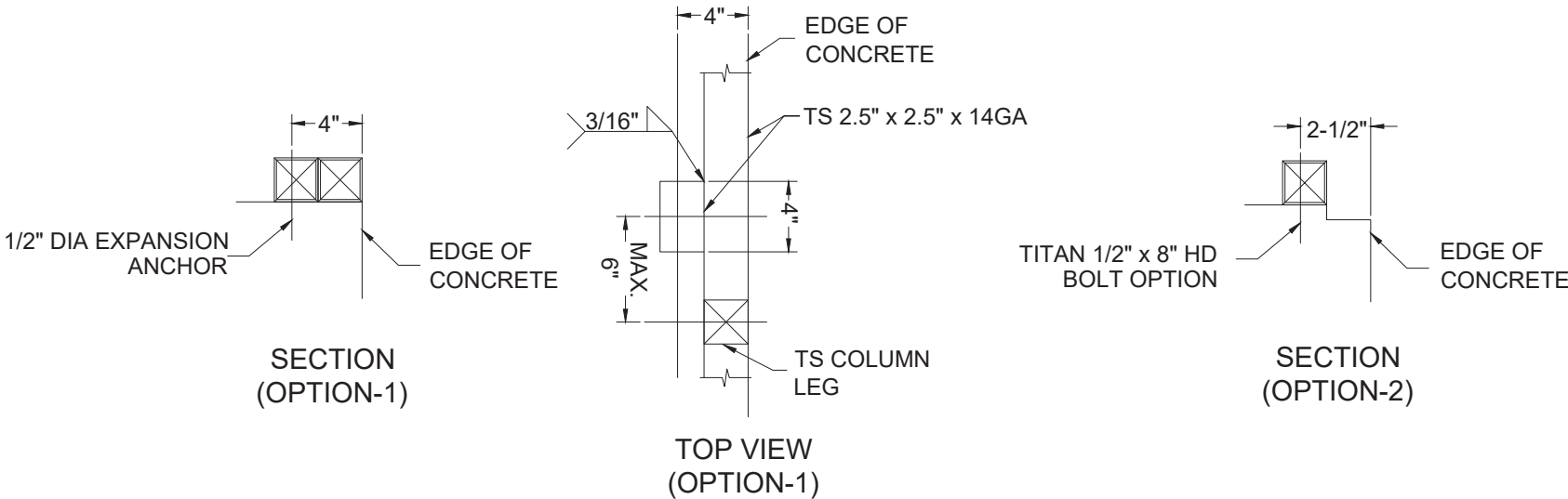
3A CONCRETE MONOLITHIC SLAB  
BASE RAIL ANCHORAGE  
SCALE: NTS



3B GROUND BASE HELIX ANCHORAGE  
SCALE: NTS

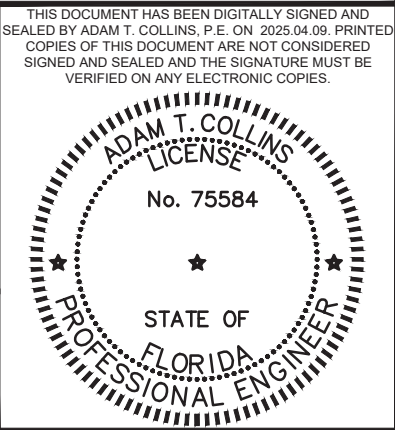


3C ASPHALT BASE ANCHORAGE  
(HP 9 BARBED DRIVE ANCHOR)  
SCALE: NTS



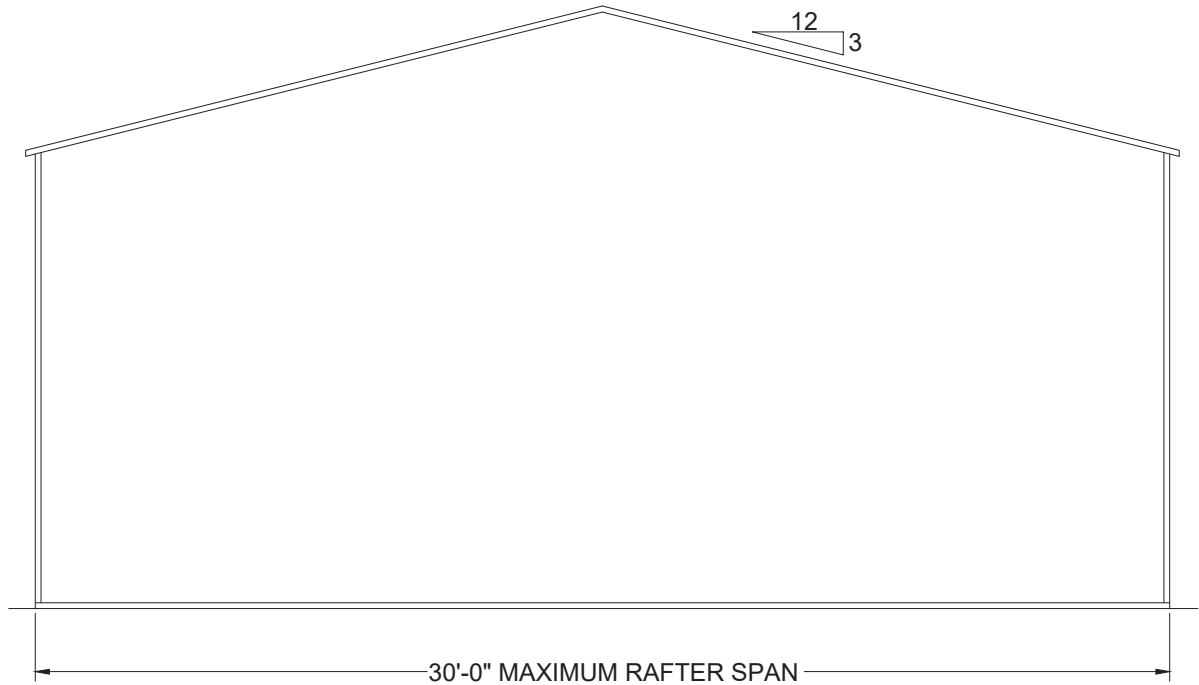
TYPICAL ANCHOR DETAIL WHEN BASE  
RAIL IS NEAR EDGE OF CONCRETE  
SCALE: NTS

| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE     | PREPARED BY                                                                                                                                                                             | CLIENT                                           | SHEET TITLE                        | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |          |  <div>ADAM COLLINS<br/>ENGINEERING INC.<br/>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | BASE RAIL AND<br>ANCHORAGE DETAILS | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-4       |
|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                         |                                                  |                                    |                                                             |           |
|     |           |      | CHECKED  | ATC        |            | AS-SHOWN |                                                                                                                                                                                         |                                                  |                                    |                                                             |           |
|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                         |                                                  |                                    |                                                             |           |



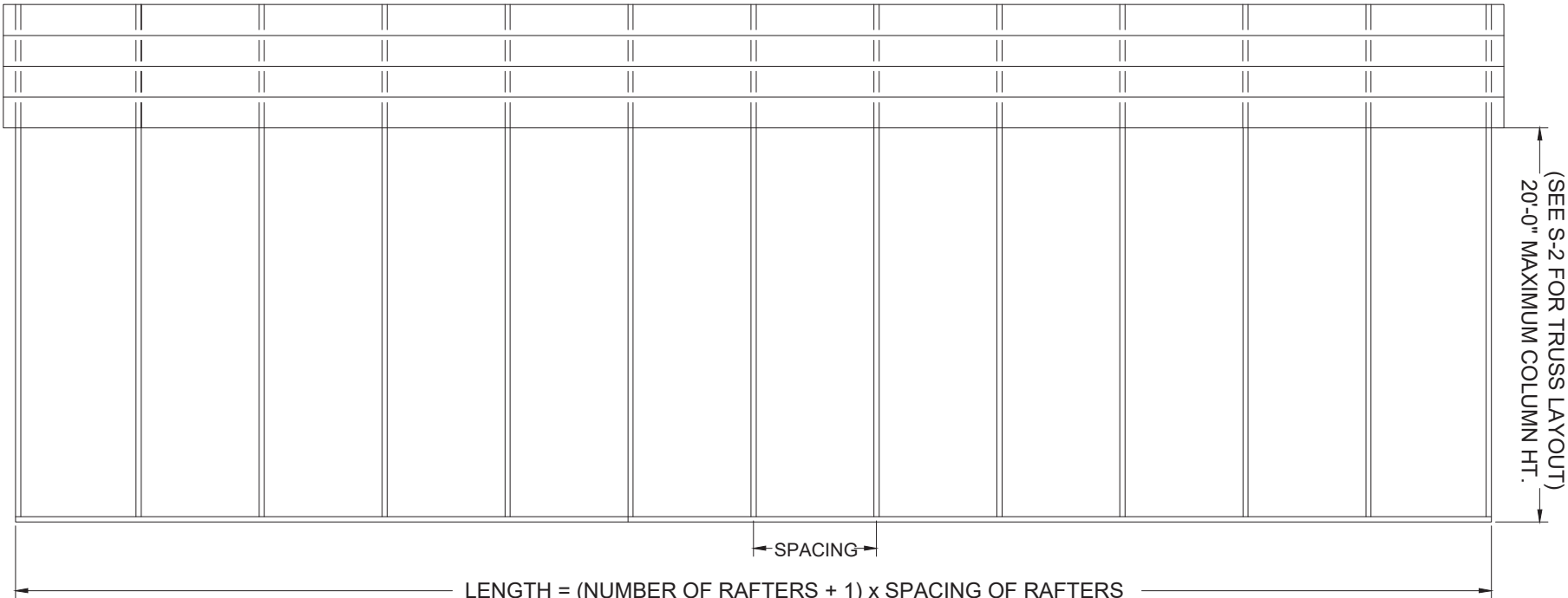
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SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH  
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

**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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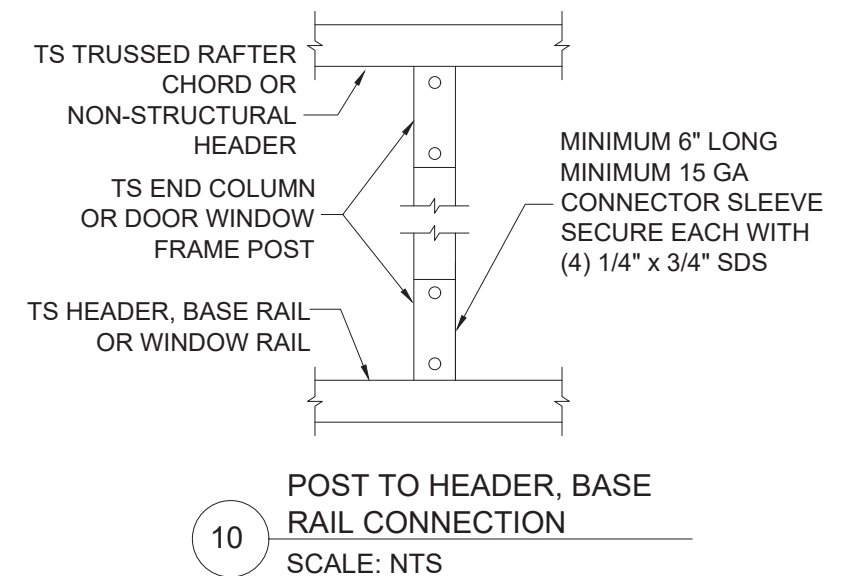
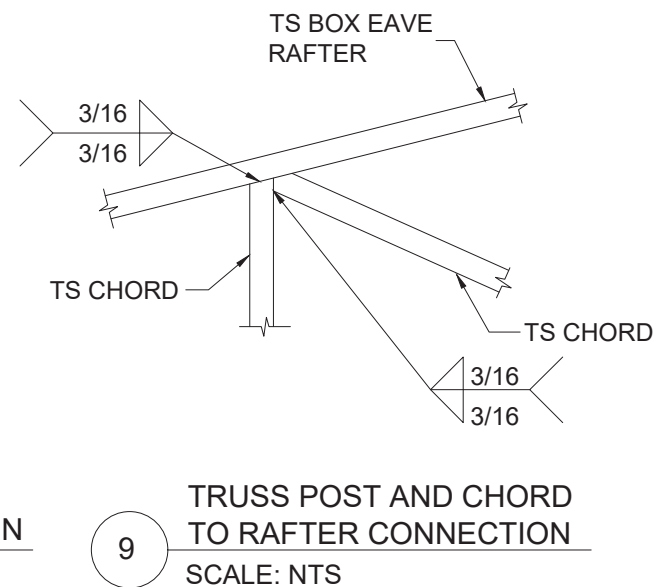
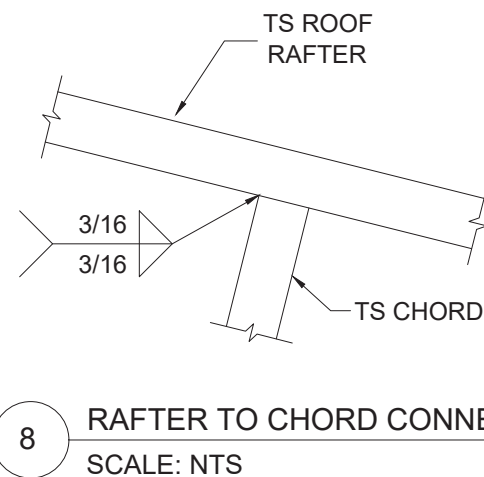
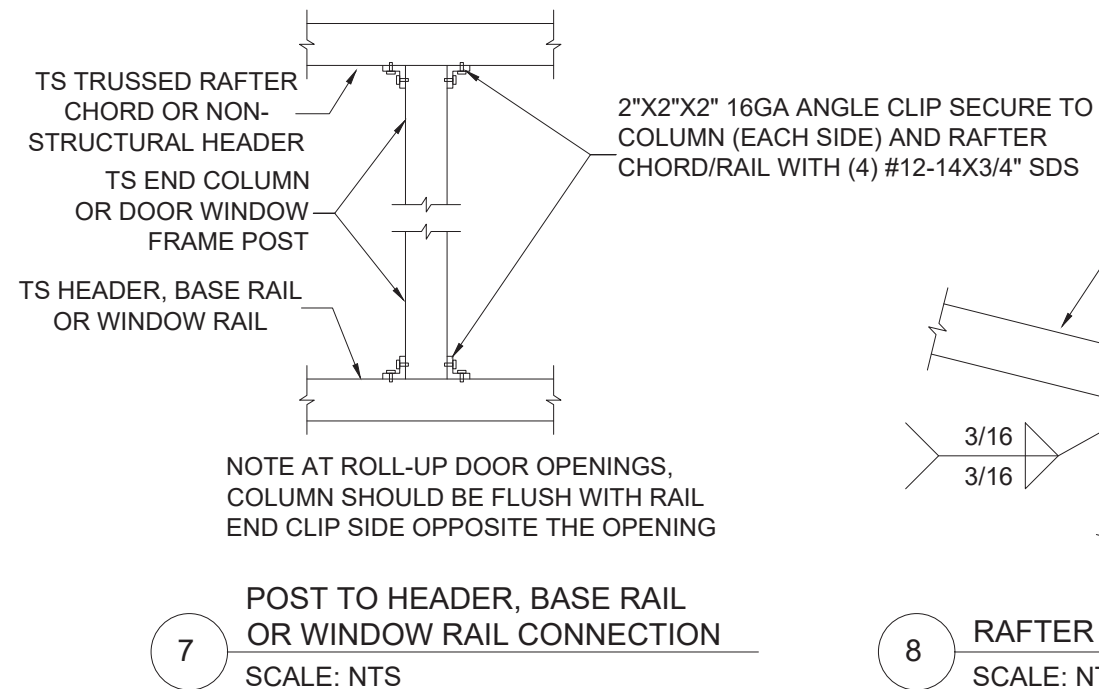
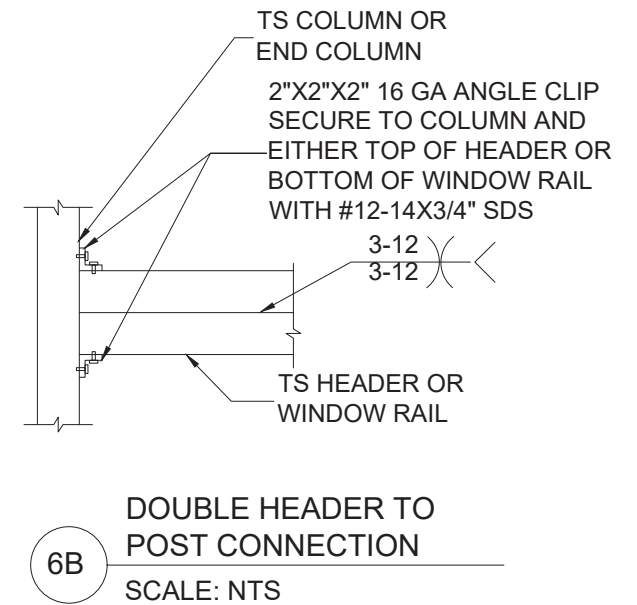
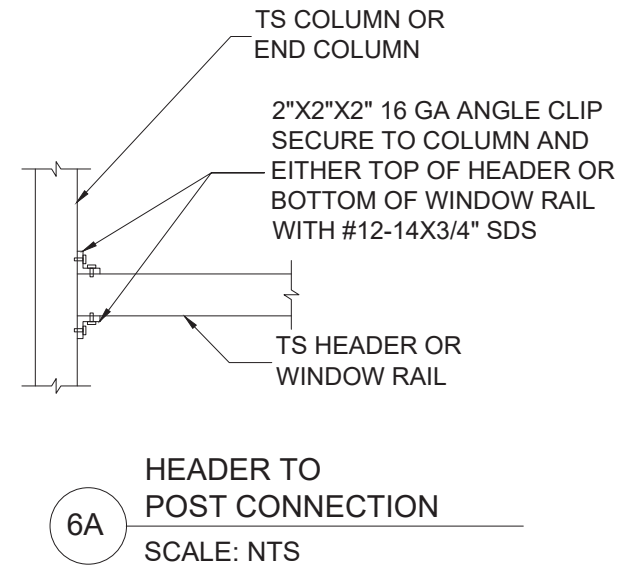
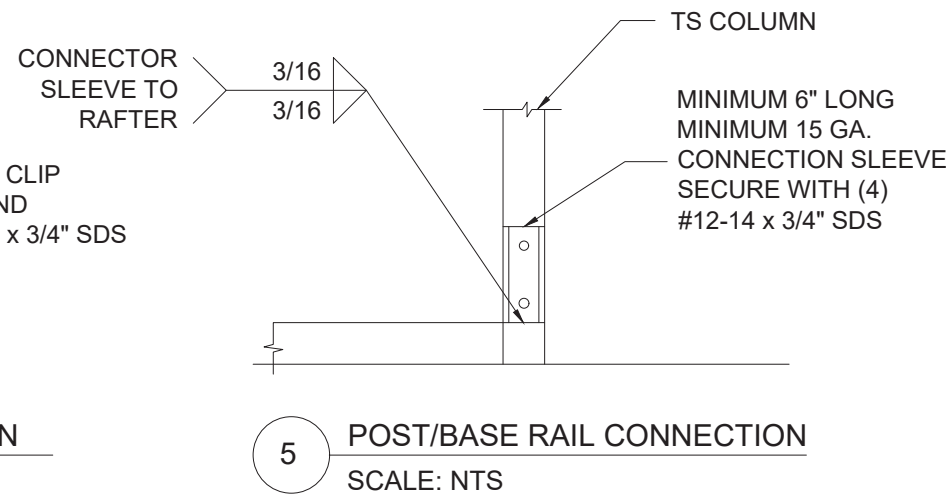
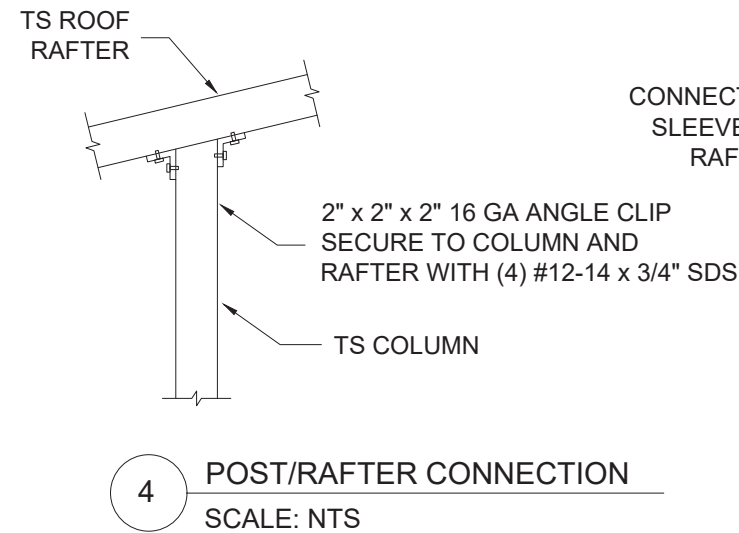
| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE | PREPARED BY                                                                               | CLIENT                                           | SHEET TITLE                                                   | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|------|-------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |      | <div>ACADAM COLLINSENGINEERING INC.CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | BOX EAVE RAFTER END<br>WALL, SIDE WALL AND<br>OPENING FRAMING | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-5       |
|     |           |      | DESIGNED | DMC        |            |      |                                                                                           |                                                  |                                                               |                                                             | SCALE     |
|     |           |      | CHECKED  | ATC        |            |      |                                                                                           |                                                  |                                                               |                                                             | AS-SHOWN  |
|     |           |      | JOB No.  | 22047      |            |      |                                                                                           |                                                  |                                                               |                                                             |           |

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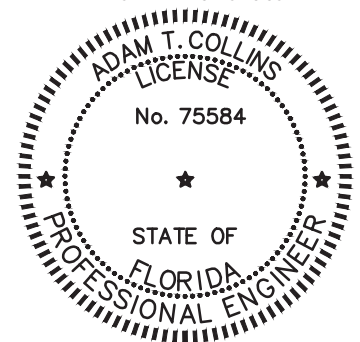
ADAM T. COLLINS  
LICENSE  
No. 75584

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

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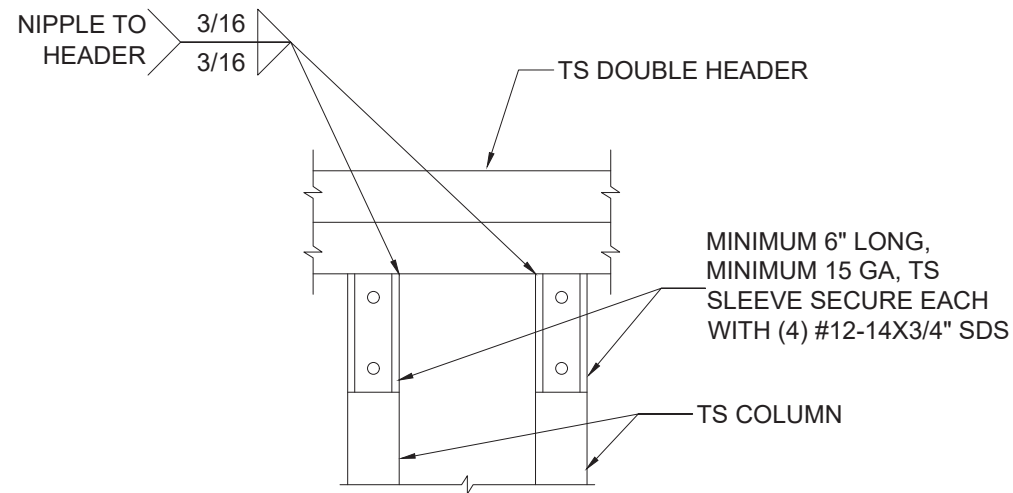


THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.04.09. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

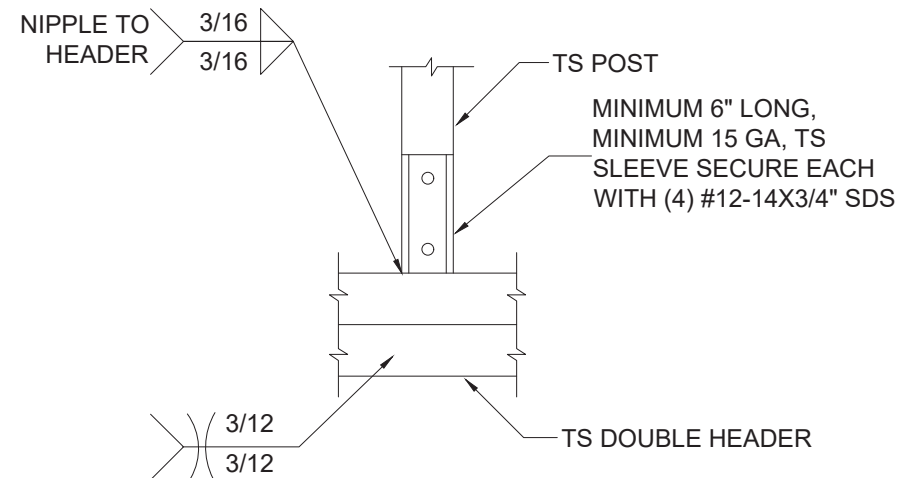


| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE     | PREPARED BY                                                                                                                                                                       | CLIENT                                           | SHEET TITLE                    | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |          |  <b>ADAM COLLINS</b><br>ENGINEERING INC.<br>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | CONNECTION DETAILS<br>(2 OF 4) | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-6       |
|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                   |                                                  |                                |                                                             |           |
|     |           |      | CHECKED  | ATC        |            | AS-SHOWN |                                                                                                                                                                                   |                                                  |                                |                                                             |           |
|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                   |                                                  |                                |                                                             |           |

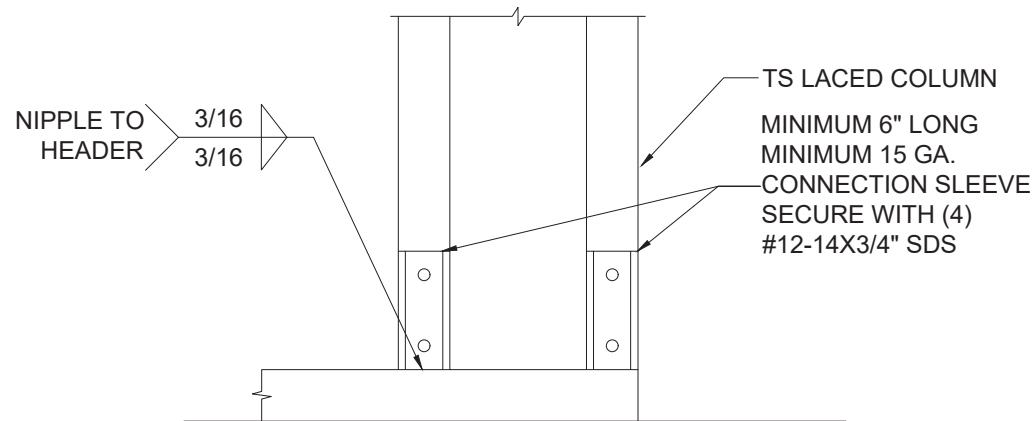
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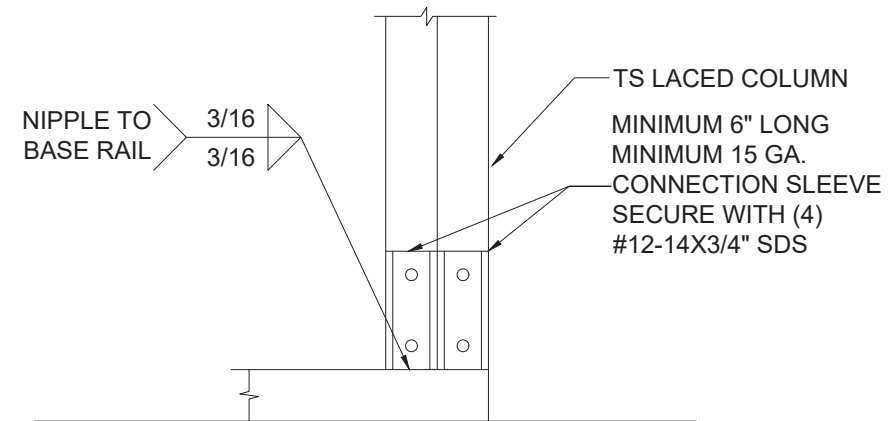
11 DOUBLE HEADER TO POST CONNECTION  
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION  
SCALE: NTS

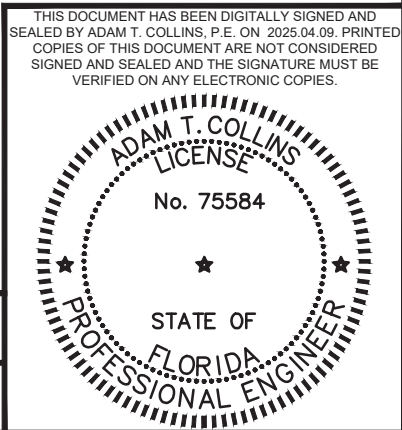


13A POST/BASE RAIL CONNECTION  
SCALE: NTS

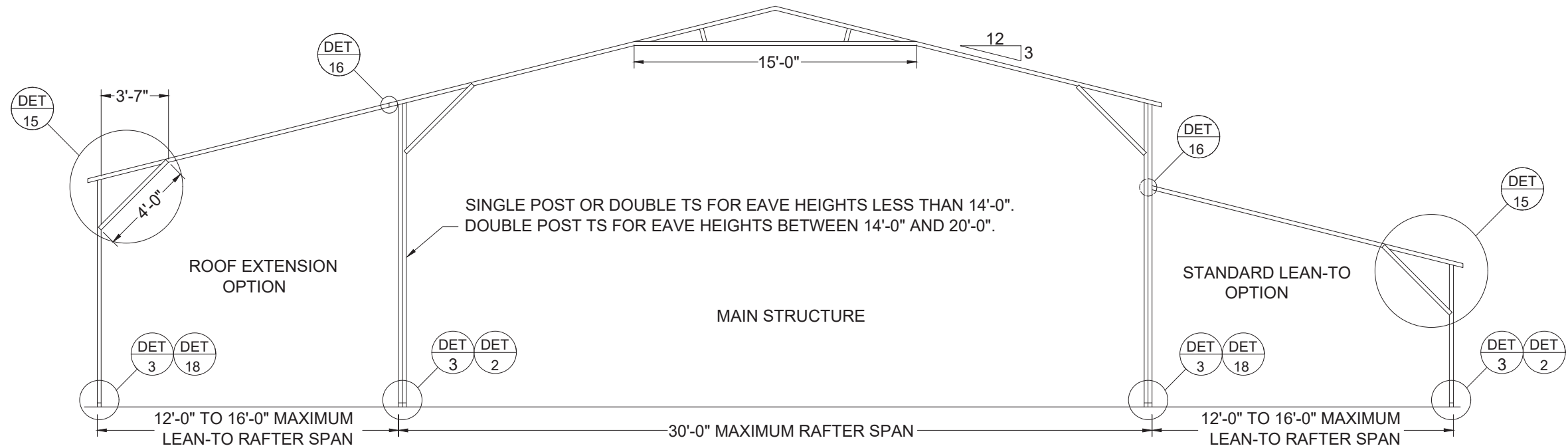


13B POST/BASE RAIL CONNECTION  
SCALE: NTS

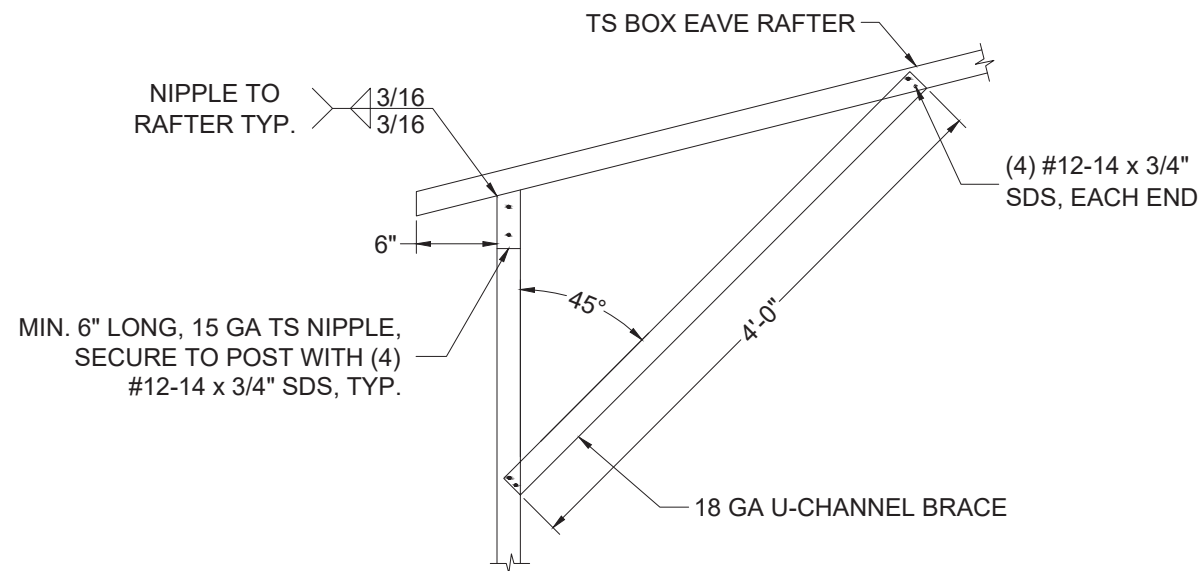
| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE     | PREPARED BY                                                                                                                                                                         | CLIENT                                           | SHEET TITLE                    | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |          |  <div>ADAM COLLINS<br/>ENGINEERING INC.</div> CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | CONNECTION DETAILS<br>(3 OF 4) | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-7       |
|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                     |                                                  |                                |                                                             |           |
|     |           |      | CHECKED  | ATC        |            | AS-SHOWN |                                                                                                                                                                                     |                                                  |                                |                                                             |           |
|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                     |                                                  |                                |                                                             |           |



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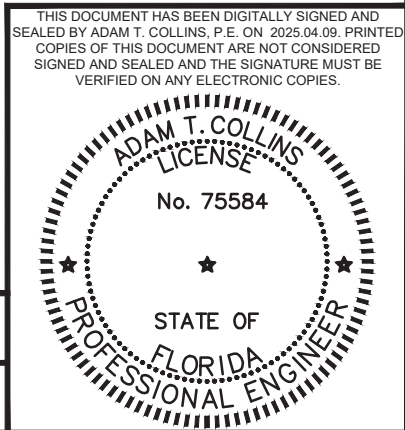


**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION**  
SCALE: NTS



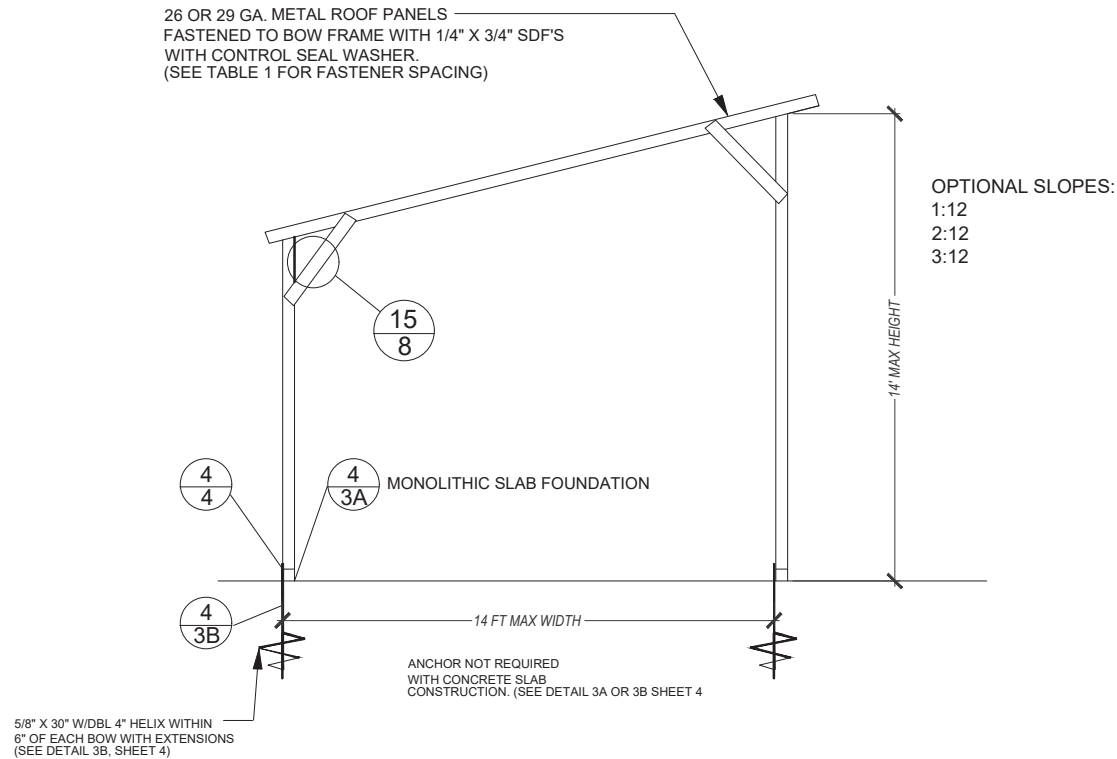
**LEAN-TO RAFTER/CORNER POST CONNECTION**  
SCALE: NTS

|     |           |      |          |            |            |          |                                                                                                                                                                                   |                                                  |                                    |                                                             |           |
|-----|-----------|------|----------|------------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-------------------------------------------------------------|-----------|
| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE     | PREPARED BY                                                                                                                                                                       | CLIENT                                           | SHEET TITLE                        | PROJECT                                                     | SHEET NO. |
|     |           |      | DRAWN    | SM         |            |          |  <b>ADAM COLLINS</b><br>ENGINEERING INC.<br>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | BOX EAVE RAFTER<br>LEAN TO OPTIONS | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-8       |
|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                   |                                                  |                                    |                                                             |           |
|     |           |      | CHECKED  | ATC        |            | AS-SHOWN |                                                                                                                                                                                   |                                                  |                                    |                                                             |           |
|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                   |                                                  |                                    |                                                             |           |

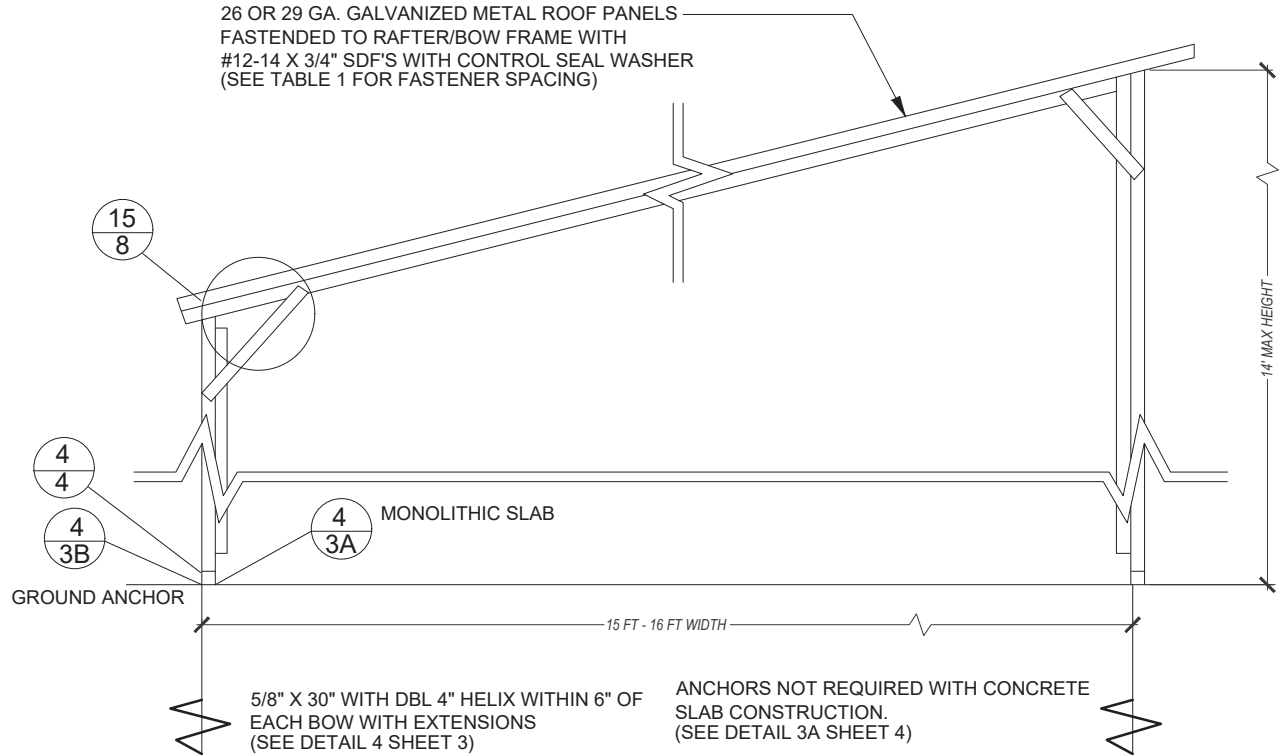




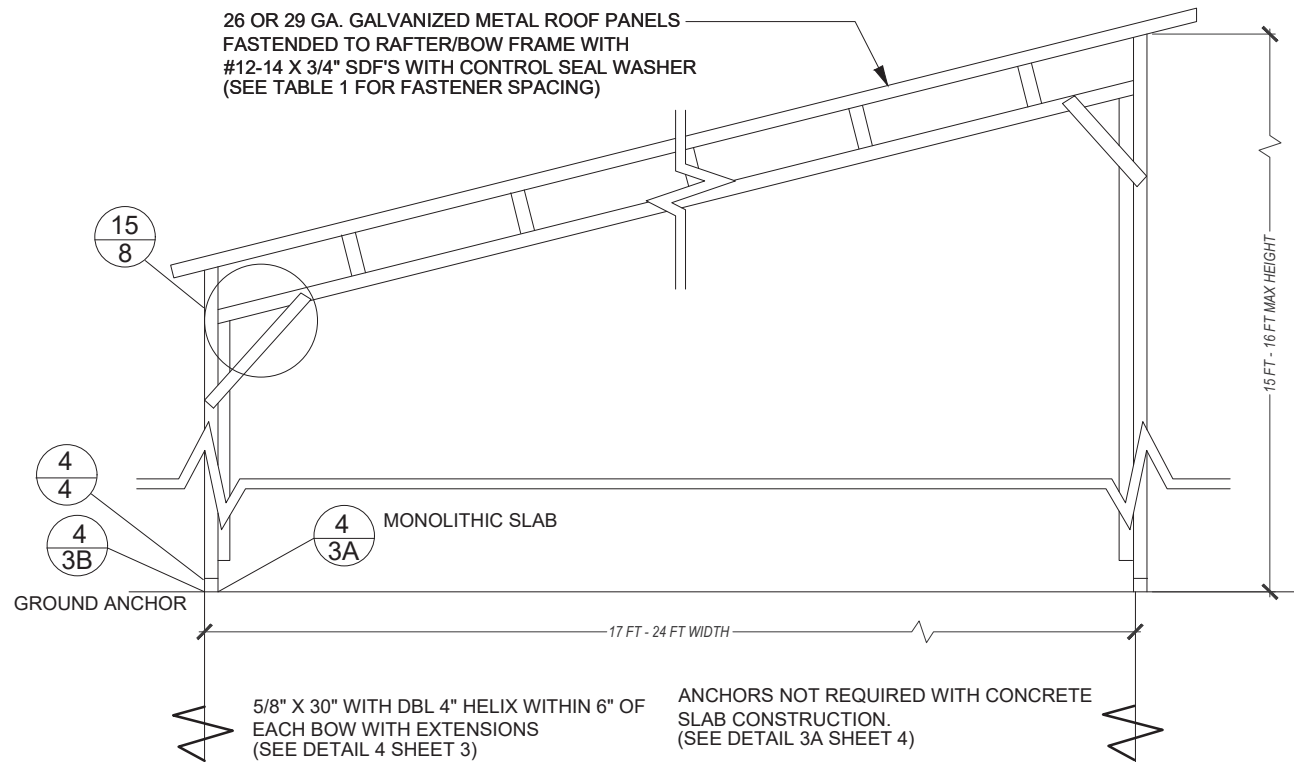
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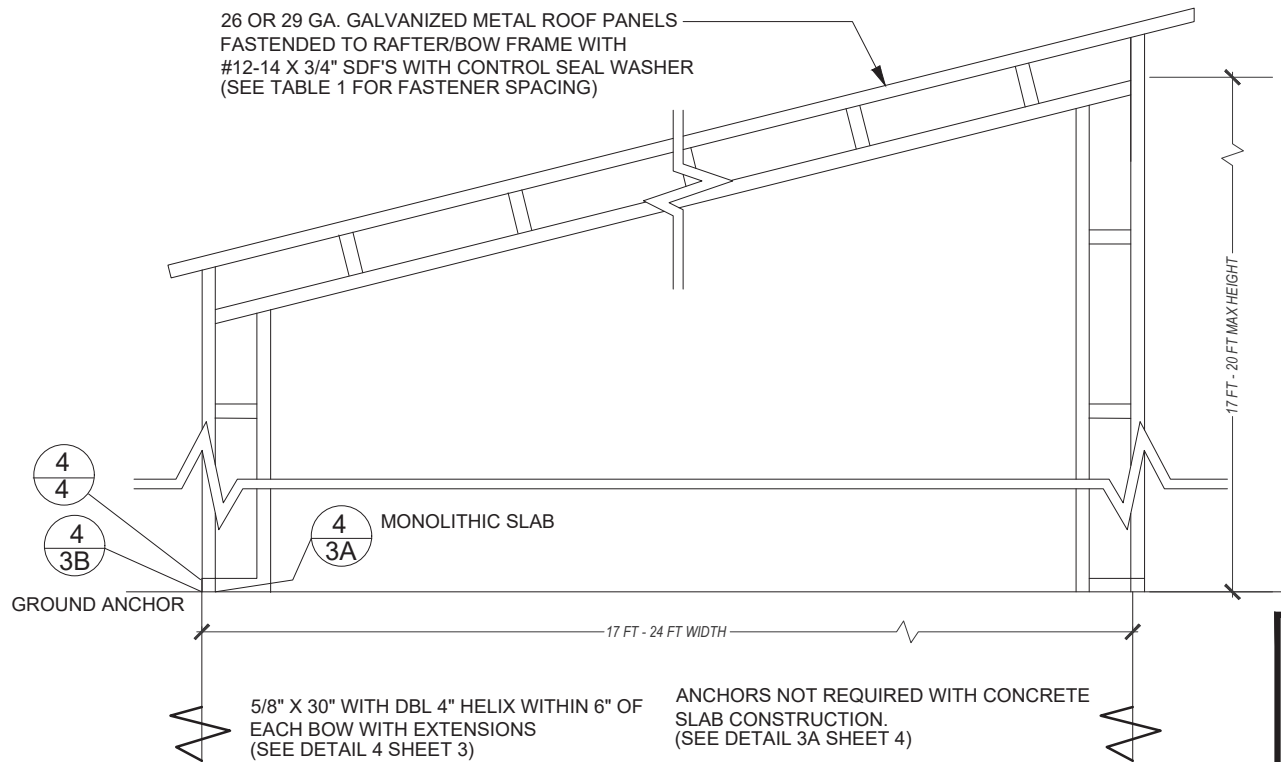
**14 FT MAX WIDTH FREESTANDING LEAN-TO**  
SCALE: NTS



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

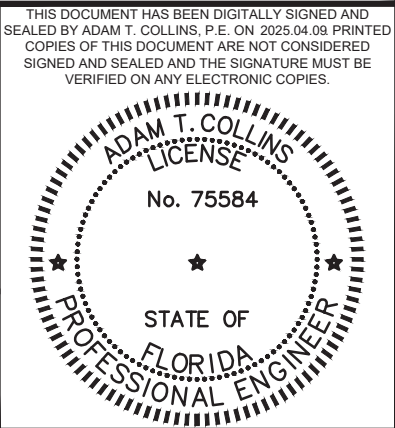


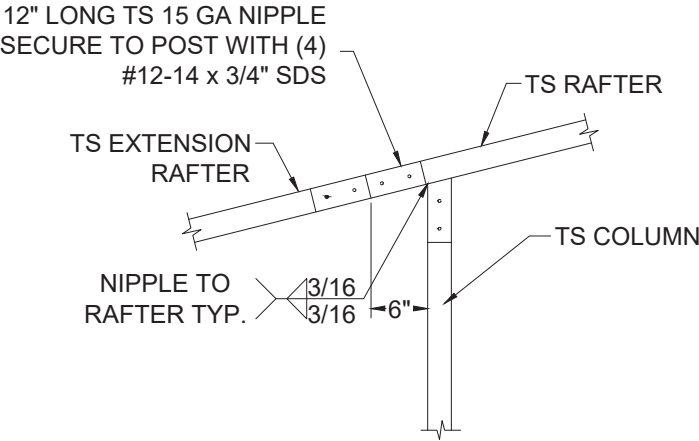
**17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS



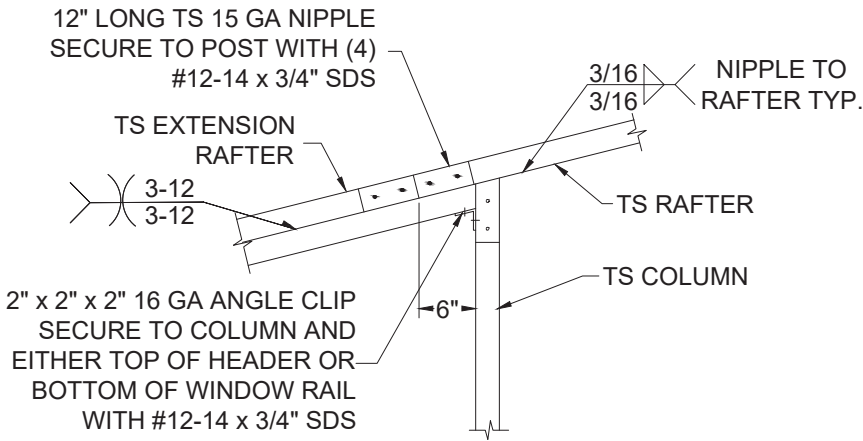
**17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS

| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE | PREPARED BY                                                                                                                                                                       | CLIENT                                           | SHEET TITLE                                        | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |      |  <b>ADAM COLLINS</b><br>ENGINEERING INC.<br>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | FREESTANDING BOX<br>EAVE RAFTER<br>LEAN-TO OPTIONS | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-9       |
|     |           |      | DESIGNED | DMC        |            |      |                                                                                                                                                                                   |                                                  |                                                    |                                                             | SCALE     |
|     |           |      | CHECKED  | ATC        |            |      |                                                                                                                                                                                   |                                                  |                                                    |                                                             | AS-SHOWN  |
|     |           |      | JOB No.  | 22047      |            |      |                                                                                                                                                                                   |                                                  |                                                    |                                                             |           |

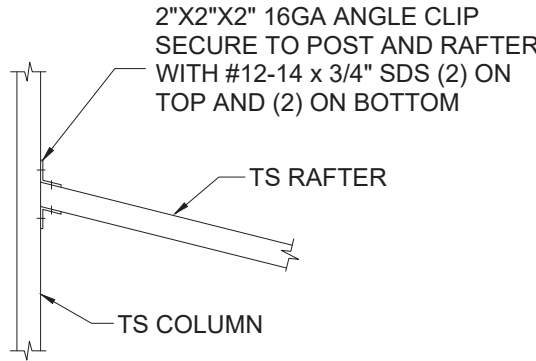




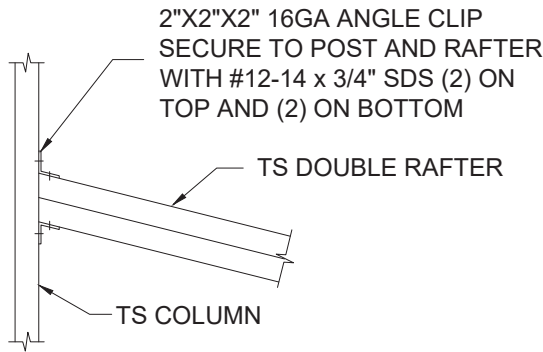
16A SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN LESS THAN 12'-0"  
SCALE: NTS



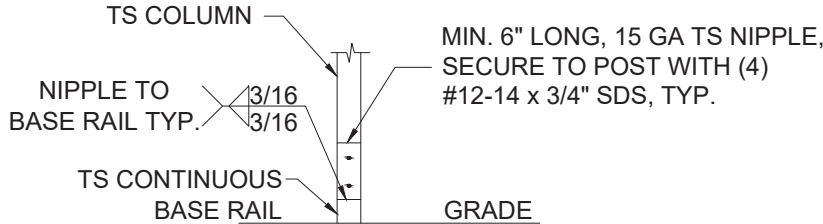
16B SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



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



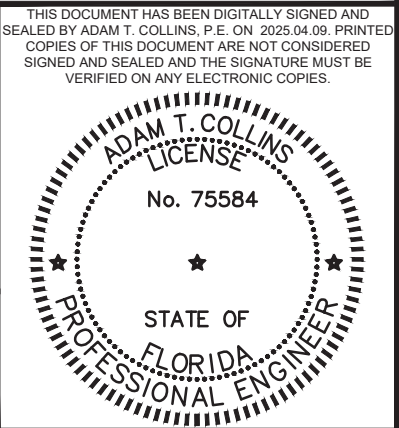
17B LEAN TO RAFTER/COLUMN CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



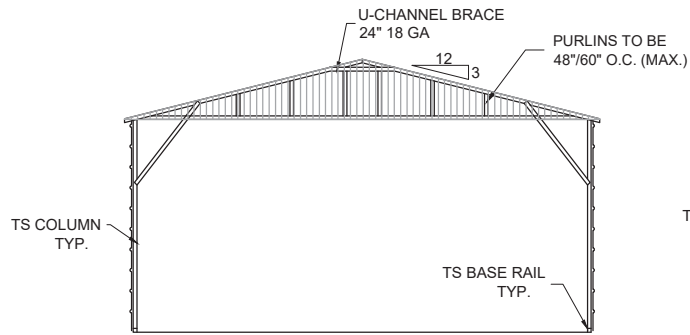
18 LEAN-TO POST CONNECTION  
SCALE: NTS

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| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE     | PREPARED BY                                                                                                                                                                       | CLIENT                                           | SHEET TITLE                    | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |          |  <b>ADAM COLLINS</b><br>ENGINEERING INC.<br>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | CONNECTION DETAILS<br>(4 OF 4) | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-10      |
|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                   |                                                  |                                |                                                             |           |
|     |           |      | CHECKED  | ATC        |            | AS-SHOWN |                                                                                                                                                                                   |                                                  |                                |                                                             |           |
|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                   |                                                  |                                |                                                             |           |

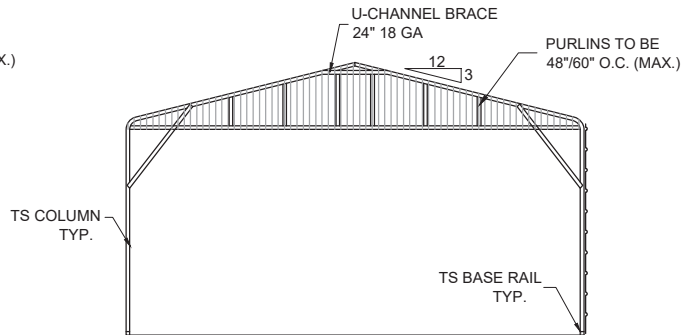


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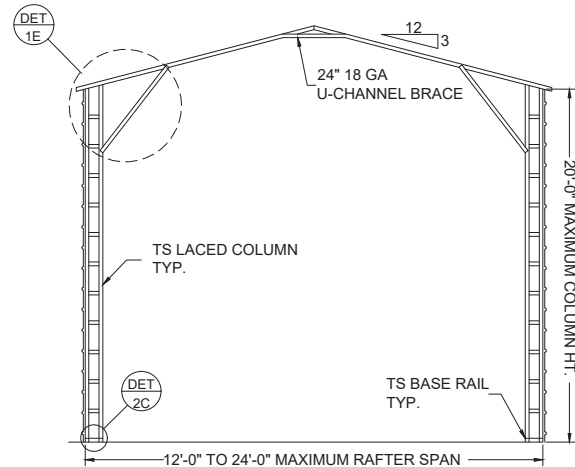
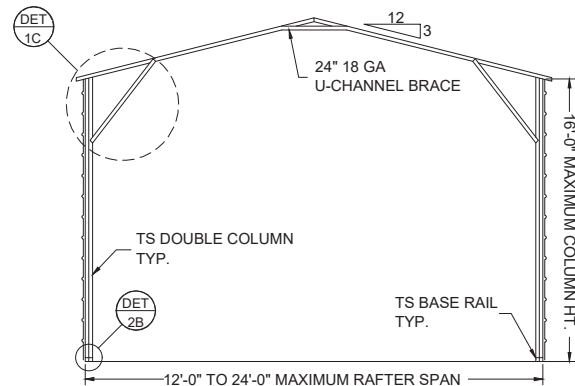
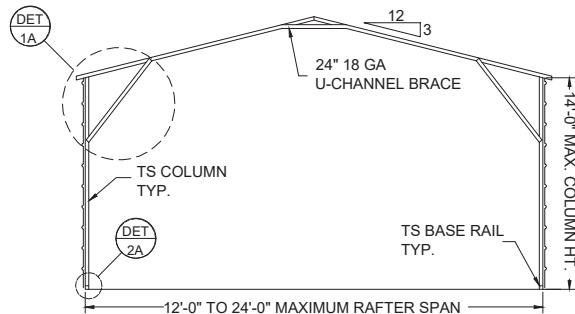
\*SIDEWALL COVERAGE VARIES (SECURE TO FRAME PER SIDING SPECIFICATIONS)  
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH  
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH  
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

OPTIONAL GABLE END BOX EAVE FRAME  
SCALE: NTS

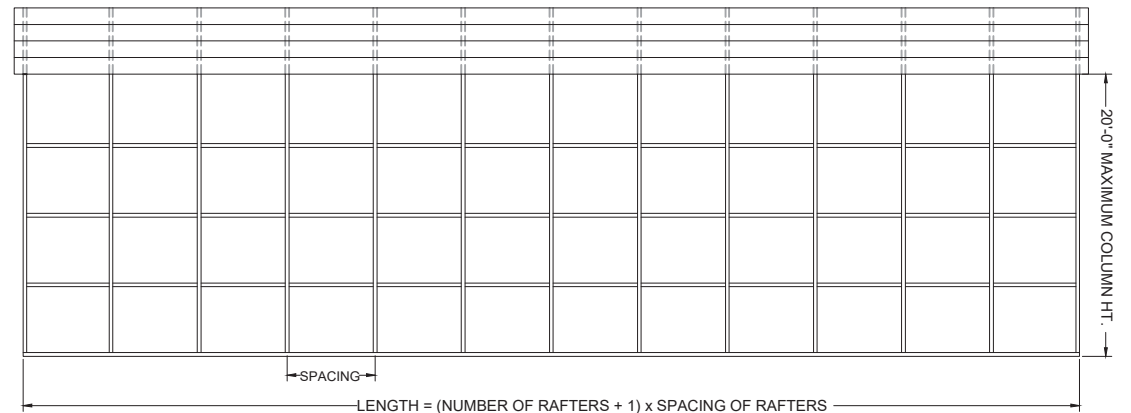
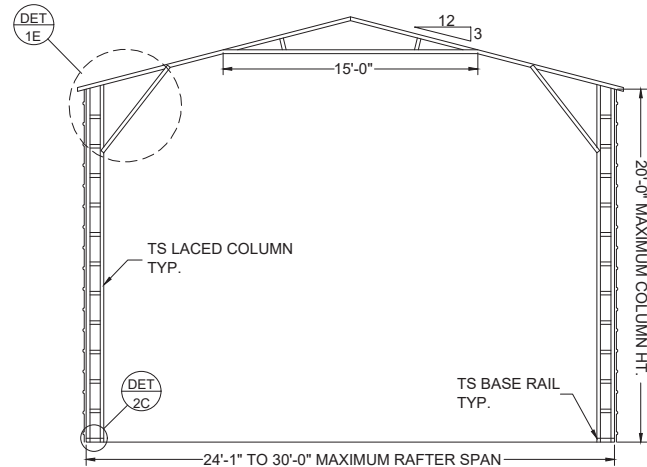
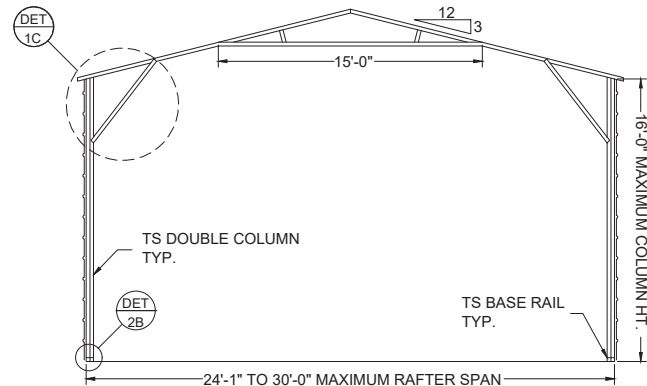
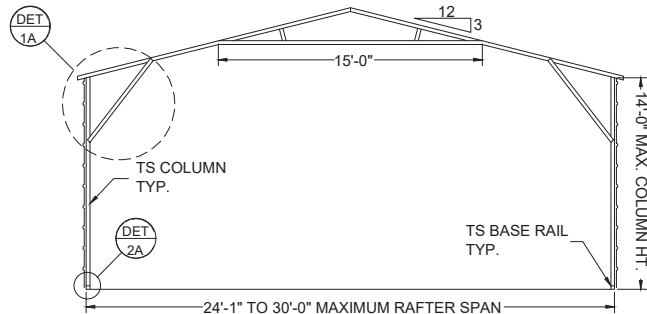


\*SIDEWALL COVERAGE VARIES (SECURE TO FRAME PER SIDING SPECIFICATIONS)  
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH  
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH  
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

OPTIONAL GABLE END BOW EAVE FRAME  
SCALE: NTS

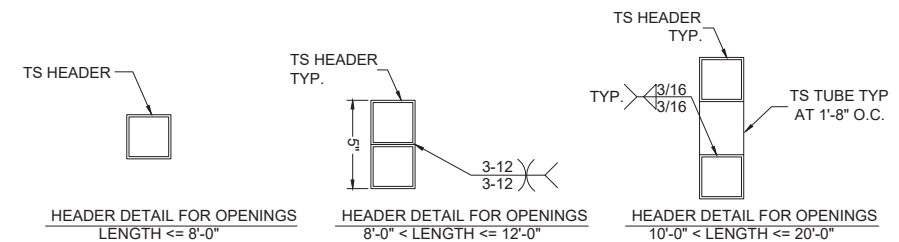


BOX EAVE FRAME  
SCALE: NTS

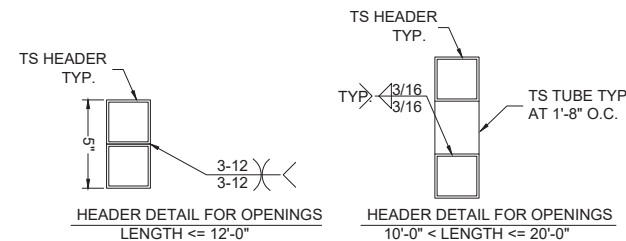


\*SIDEWALL COVERAGE VARIES (SECURE TO FRAME PER SIDING SPECIFICATIONS)  
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH  
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH  
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

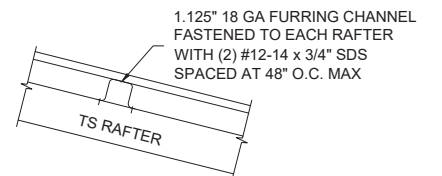
TYPICAL SIDE FRAME SECTION  
SCALE: NTS



SIDE WALL OPTION HEADER  
SCALE: NTS

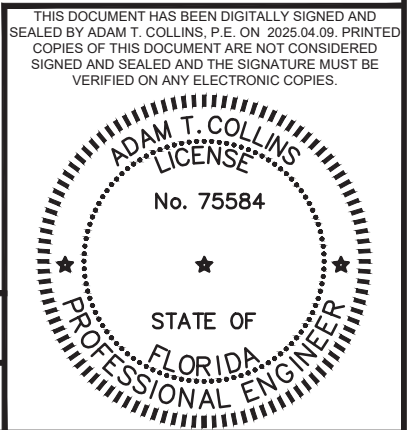


END WALL OPTION HEADER  
SCALE: NTS



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

| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE     | PREPARED BY                                                                                                                                                                          | CLIENT                                           | SHEET TITLE                                       | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |          | <br><b>ADAM COLLINS</b><br>ENGINEERING INC.<br>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | BOX EAVE RAFTER<br>VERTICAL<br>ROOF-SIDING OPTION | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-11      |
|     |           |      | DESIGNED | DMC        |            | SCALE    |                                                                                                                                                                                      |                                                  |                                                   |                                                             |           |
|     |           |      | CHECKED  | ATC        |            | AS-SHOWN |                                                                                                                                                                                      |                                                  |                                                   |                                                             |           |
|     |           |      | JOB No.  | 22047      |            |          |                                                                                                                                                                                      |                                                  |                                                   |                                                             |           |

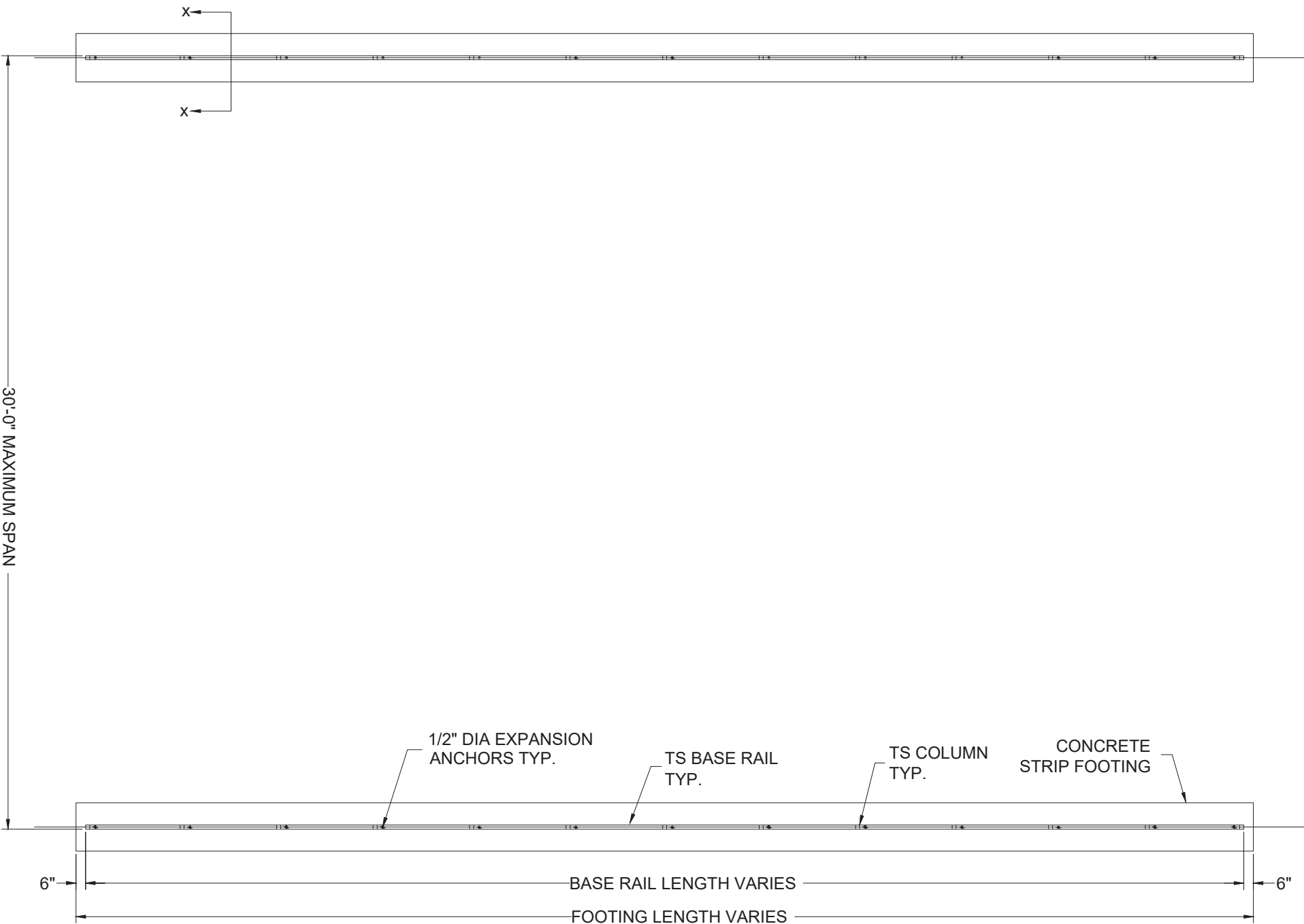
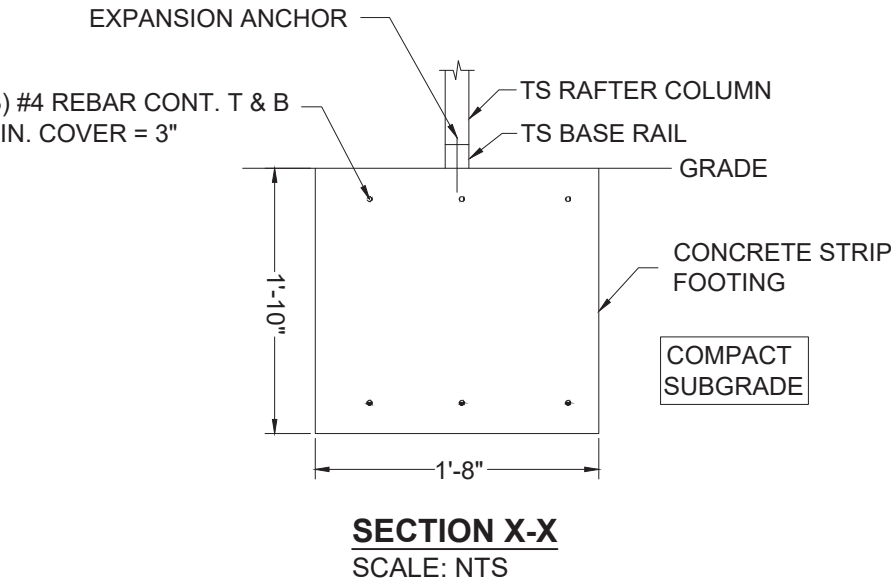


GENERAL NOTES

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

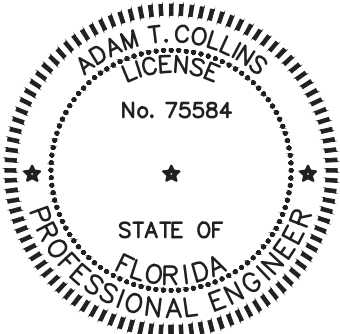
REINFORCING STEEL

- 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

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| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | SUBMITTALS | DATE | PREPARED BY                                                                                                                                                                       | CLIENT                                           | SHEET TITLE                        | PROJECT                                                     | SHEET NO. |
|-----|-----------|------|----------|------------|------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-------------------------------------------------------------|-----------|
|     |           |      | DRAWN    | SM         |            |      |  <b>ADAM COLLINS</b><br>ENGINEERING INC.<br>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | OPTIONAL CONCRETE<br>STRIP FOOTING | Terry Pemberton<br>141 SW Dante Terr<br>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

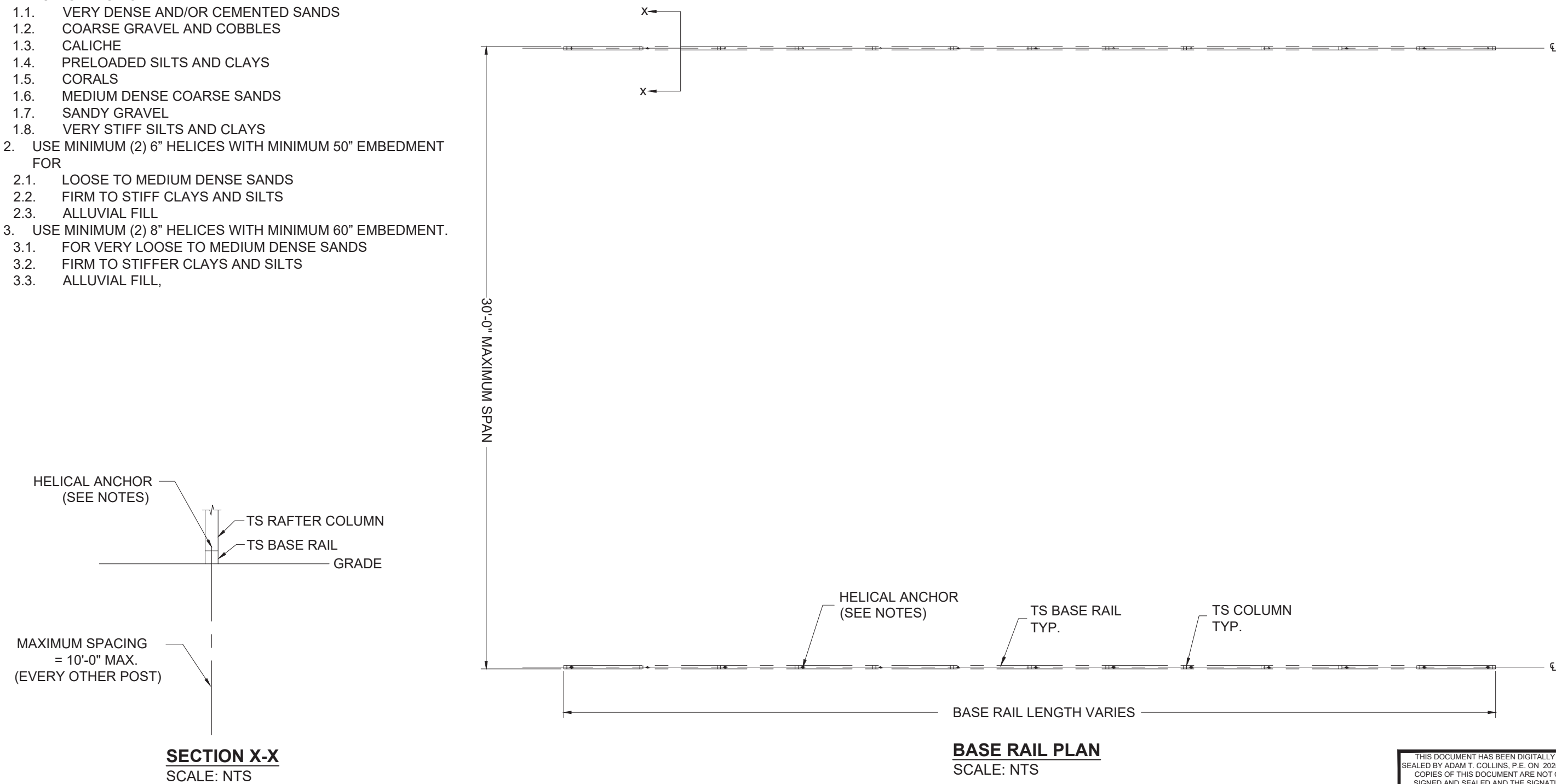
1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
- 2.1. LOOSE TO MEDIUM DENSE SANDS

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,



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| NO. | REVISIONS | DATE | DATE     | 2025.04.09 | 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<br>MANUFACTURING<br>10121 88TH TRACE | OPTIONAL HELICAL<br>ANCHORING DETAIL | Terry Pemberton<br>141 SW Dante Terr<br>Lake City, FL 32024 | S-13      |
|     |           |      | DESIGNED | DMC        |            |      |                                                                                                                                       |                                                  |                                      |                                                             | SCALE     |
|     |           |      | CHECKED  | ATC        |            |      |                                                                                                                                       |                                                  |                                      |                                                             | AS-SHOWN  |
|     |           |      | JOB No.  | 22047      |            |      |                                                                                                                                       |                                                  |                                      |                                                             |           |

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