

## APPLICABLE CODES AND STANDARDS

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

## DESIGN LOADS

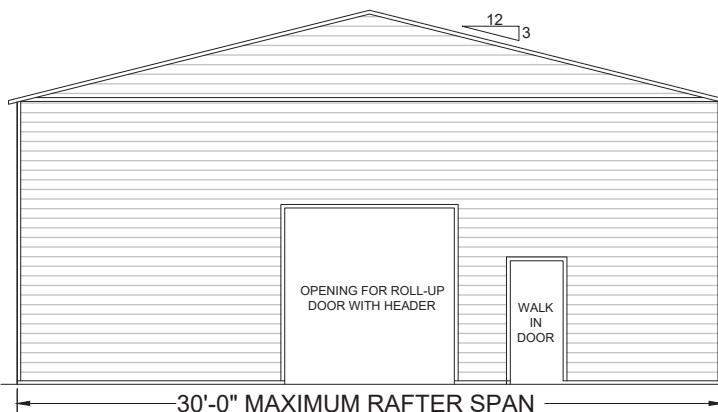
- DEAD LOAD = 15 PSF
- LIVE LOAD = 20 PSF
- WIND LOAD (SEE TABLE 1)

# ENCLOSED METAL BUILDING DESIGN

30FT WIDE X 50FT LONG X 12FT EAVE HT.

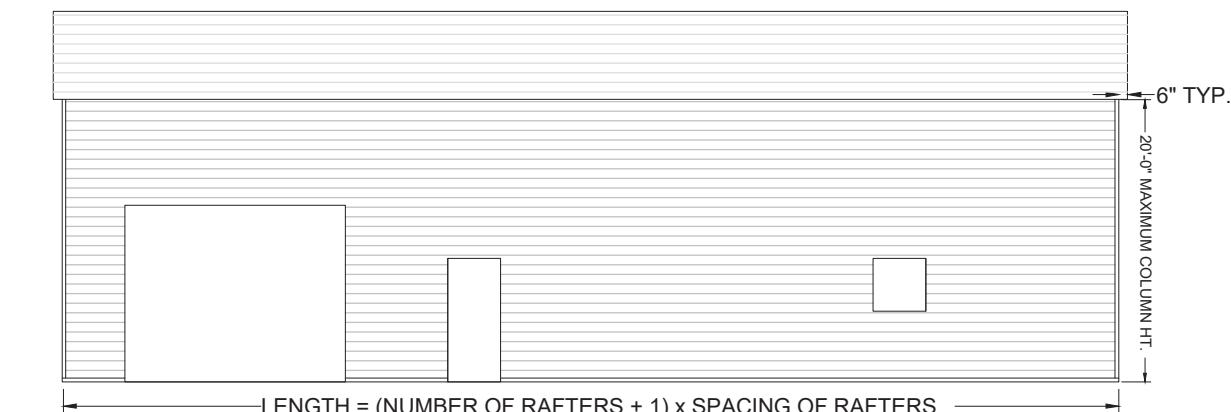
## INSTALLATION NOTES AND SPECIFICATIONS

- ROOF PITCH SHALL NOT BE GREATER THAN 12H:4V
- END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE THE SAME U.N.O.
- 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 2.5" x 2.5" x 14 GA TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS.
- 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.
- 18 GA HAT CHANNELS SHALL BE SPACED 48" O.C. UNLESS DESIGN PRESSURES FROM TABLE 3 EXCEED THE MAX ALLOWABLE PRESSURES IN TABLE 2. THEN THE SPACING SHALL BE 24" O.C. IN THE ZONES THAT EXCEED THE MAX PRESSURES.
- FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE:
  - INTERIOR = 9"
  - END = 6"
- FASTENERS SHALL BE #12-14 x 3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. APPLICABLE ONLY FOR:
  - MEAN ROOF HEIGHT OF 20'-0" OR LESS
  - ROOF SLOPES OF 18° (4:12 PITCH) OR LESS.
  - SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR WITH WELDED NUT x 30" LONG AND MAY BE USED IN SUITABLE SOILS.
- OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. SOIL NAILS MAY BE USED FOR WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.



TYPICAL ELEVATION - BOX EAVE

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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

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

NOTES:  
 1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GAUGE STEEL TUBE BOW FRAMES.  
 2. FASTENERS CONSIST OF 1/4"-14X1" SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.  
 3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14°(3:12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.  
 4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C. AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.  
 5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

## DRAWING INDEX

| PAGE NO. | DESCRIPTION   |
|----------|---|
| S-1      | NOTES AND SPECIFICATIONS                                |
| S-2      | BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING             |
| S-3      | CONNECTION DETAILS (1 OF 4)                             |
| S-4      | BASE RAIL AND ANCHORAGE DETAILS                         |
| S-5      | BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING |
| S-6      | CONNECTION DETAILS (2 OF 4)                             |
| 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                       |

| 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.

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

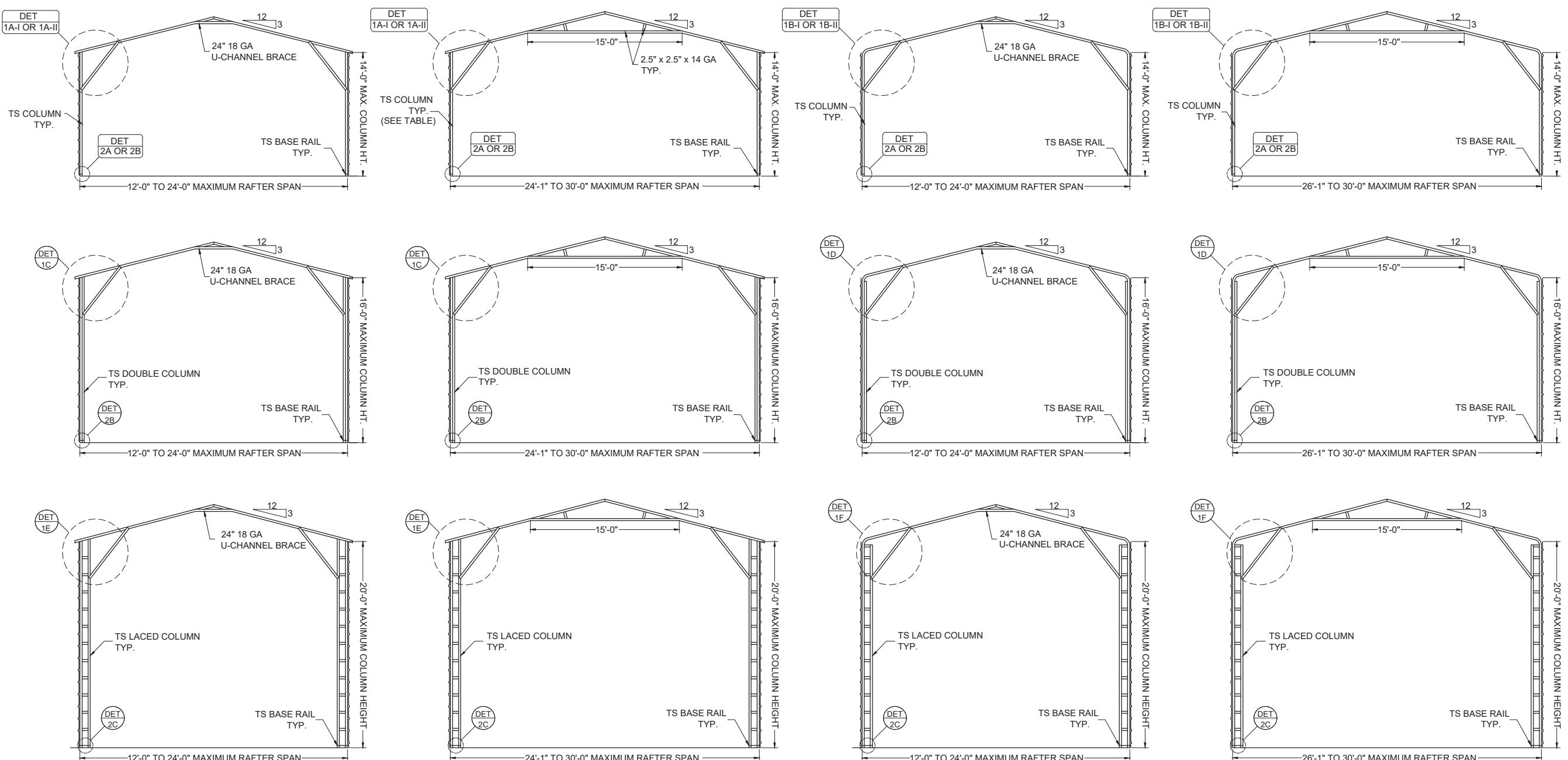
TABLE 3

| Zone | 120  |       | 130  |       | 140  |       | 150  |       | 160  |       | 170  |       | 180  |        |
|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------|
|      | POS  | NEG    |
| 1    | 9.7  | -20.7 | 11.5 | -24.3 | 13.2 | -28.2 | 15.3 | -32.4 | 17.4 | -36.9 | 19.6 | -41.6 | 22.0 | -46.6  |
| 2    | 9.7  | -27.9 | 11.5 | -32.8 | 13.2 | -38.1 | 15.3 | -43.7 | 17.4 | -49.7 | 19.6 | -56.2 | 22.0 | -62.9  |
| 3    | 11.1 | -44.8 | 13.0 | -52.7 | 15.0 | -61.0 | 17.1 | -70.1 | 19.6 | -79.8 | 22.1 | -90.0 | 24.7 | -100.8 |
| 4    | 17.8 | -19.6 | 20.9 | -23.1 | 24.3 | -26.7 | 27.9 | -30.6 | 31.7 | -34.8 | 35.8 | -39.4 | 40.1 | -44.1  |
| 5    | 18.8 | -23.8 | 22.0 | -27.8 | 25.5 | -32.3 | 29.3 | -37.0 | 33.3 | -42.1 | 37.7 | -47.5 | 42.3 | -53.3  |

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|-----|-----------|------|------------|------------|---------------|--|--|-----------------------------|---|----------|
|     |           |      | 2025.10.21 |            |               |  ADAM COLLINS<br>ENGINEERING INC. | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | NOTES AND<br>SPECIFICATIONS | Rick Gottschalk<br>510 SW Mayfair Lane<br>Lake City, FL 32024 | S-1      |
|     |           |      | SM         |            |               |  |  |                             |   | SCALE    |
|     |           |      | DMC        |            |               |  |  |                             |   | AS-SHOWN |
|     |           |      | ATC        |            |               |  |  |                             |   |          |
|     |           |      | JOB No.    | 22047      |               |  |  |                             |   |          |



## BOX EAVE FRAME

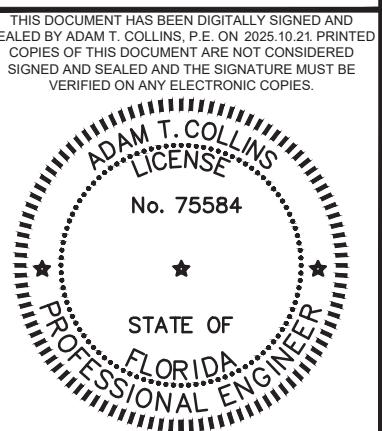
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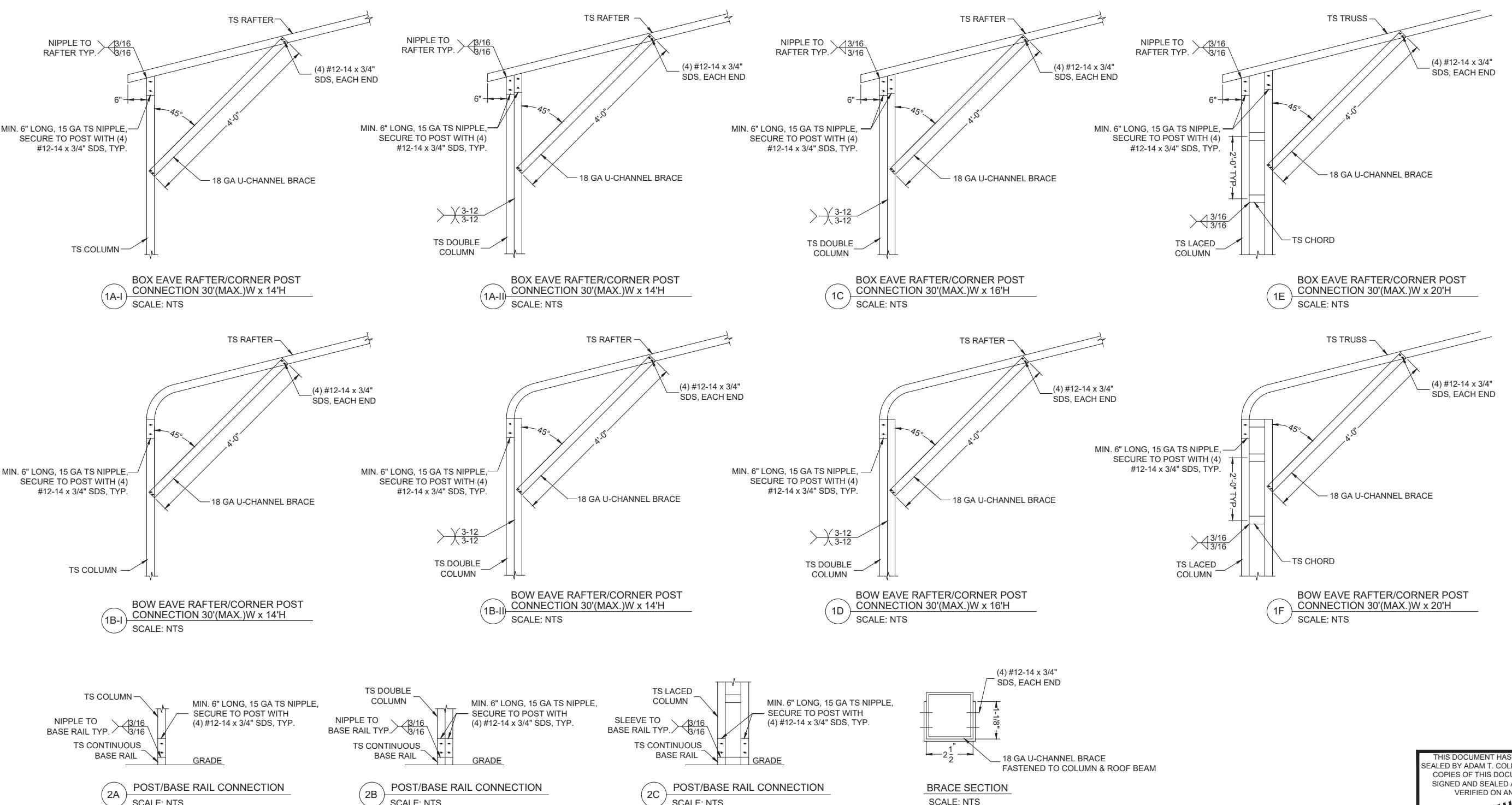
## BOW EAVE FRAME

SCALE: NTS

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|     |           |      | SM         |            |      | CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM |  |   |   | AS-SHOWN  |
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|     |           |      | ATC        |            |      |  |  |   |   |           |
|     |           |      | JOB No.    |            |      |  |  |   |   |           |
|     |           |      | 22047      |            |      |  |  |   |   |           |

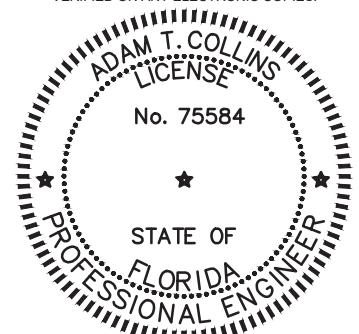
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|-----|-----------|------|------------|------------|------------|---------------|-------|-------------|------------------|------------------|---------------------------|-------------|---------------------|-----------------|-----------|-----|
|     |           |      | DRAWN      | SM         |            | DESIGNED      | DMC   |             | ADAM COLLINS     | 10121 88TH TRACE | CONNECTION DETAILS        | (1 OF 4)    | 510 SW Mayfair Lane | SCALE           | AS-SHOWN  |     |
|     |           |      | CHECKED    | ATC        |            | JOB No.       | 22047 |             | ENGINEERING INC. |                  |                           |             |                     |                 |           |     |

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## GENERAL NOTES

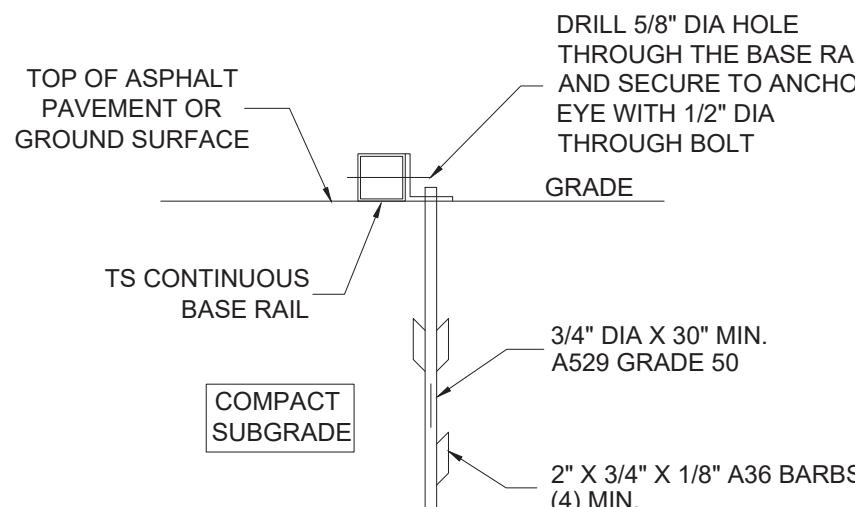
MINIMUM SOIL BEARING CAPACITY: 1500 PSF.  
CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

## 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.

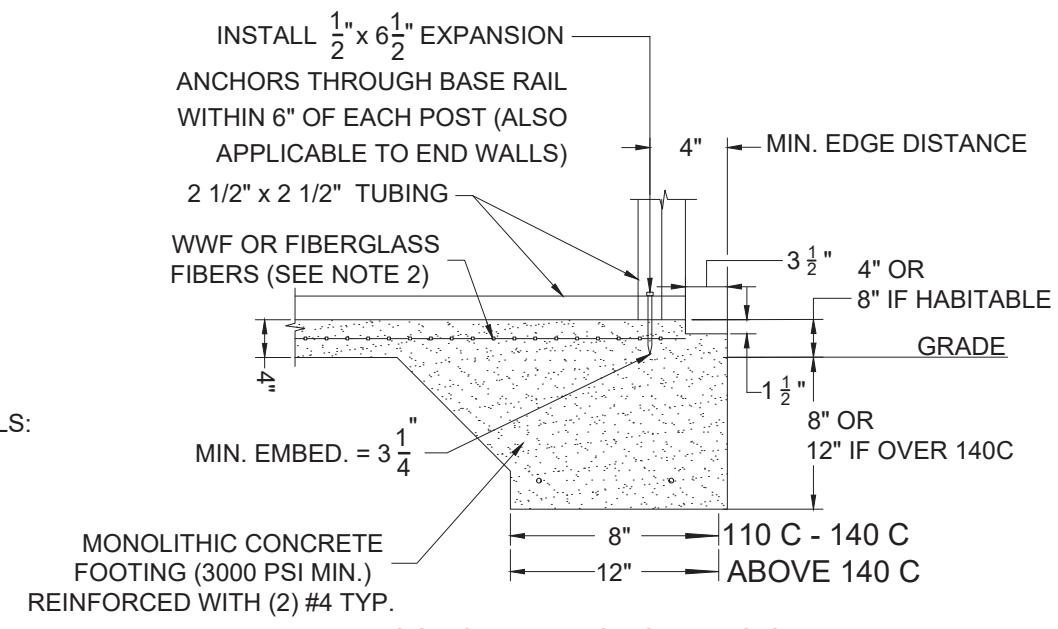
## HELIX ANCHOR NOTES

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,

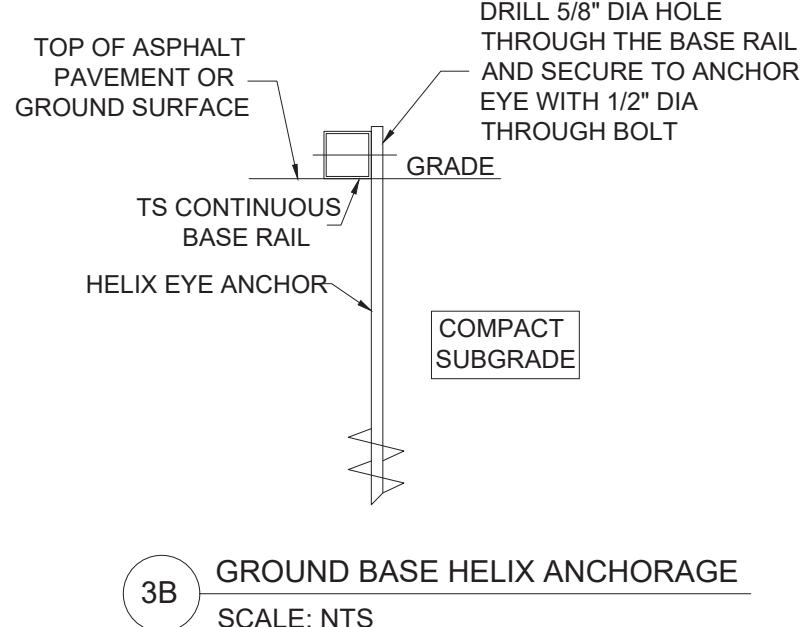


3C  
ASPHALT BASE ANCHORAGE  
(HP 9 BARBED DRIVE ANCHOR)  
SCALE: NTS

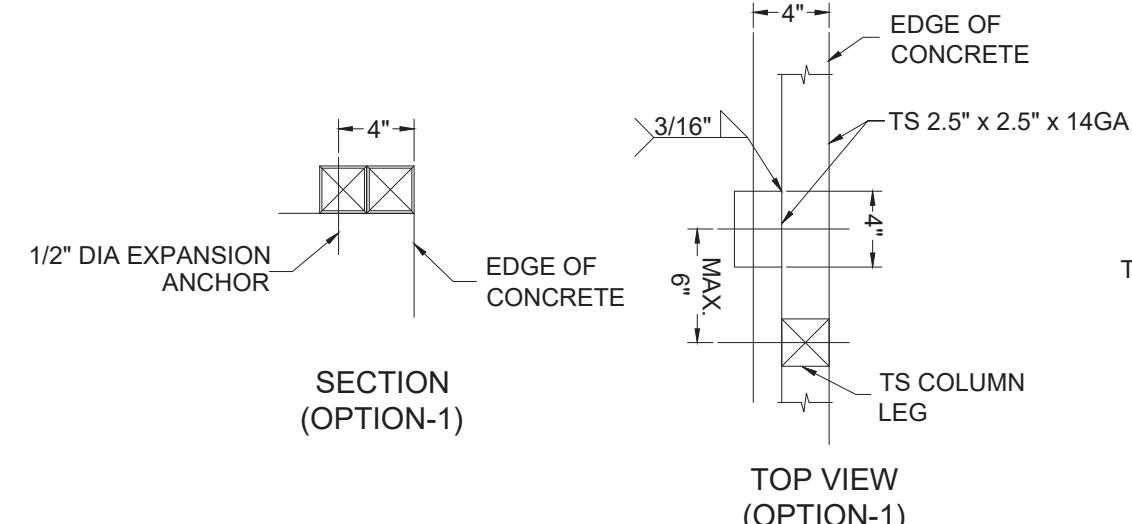
| MONOLITHIC FOOTER SIZE |                    |
|------------------------|--------------------|
| 110 C - 140 C          | 8" x 12" - (2) #4  |
| ABOVE 140 C            | 12" x 16" - (2) #4 |



3A  
CONCRETE MONOLITHIC SLAB  
BASE RAIL ANCHORAGE  
SCALE: NTS



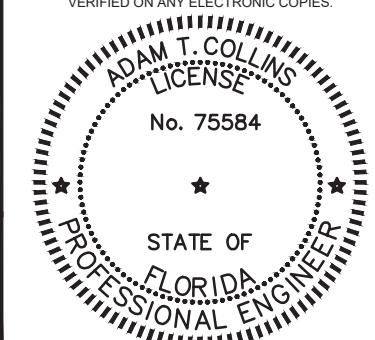
3B  
GROUND BASE HELIX ANCHORAGE  
SCALE: NTS



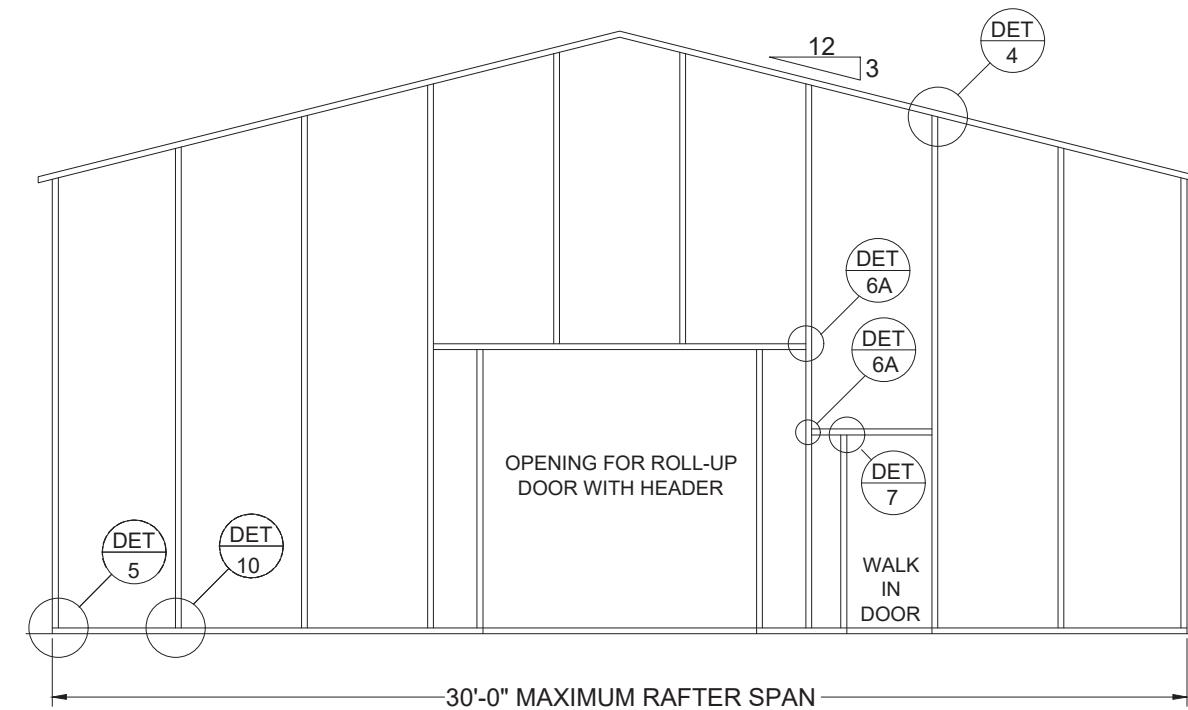
TYPICAL ANCHOR DETAIL WHEN BASE  
RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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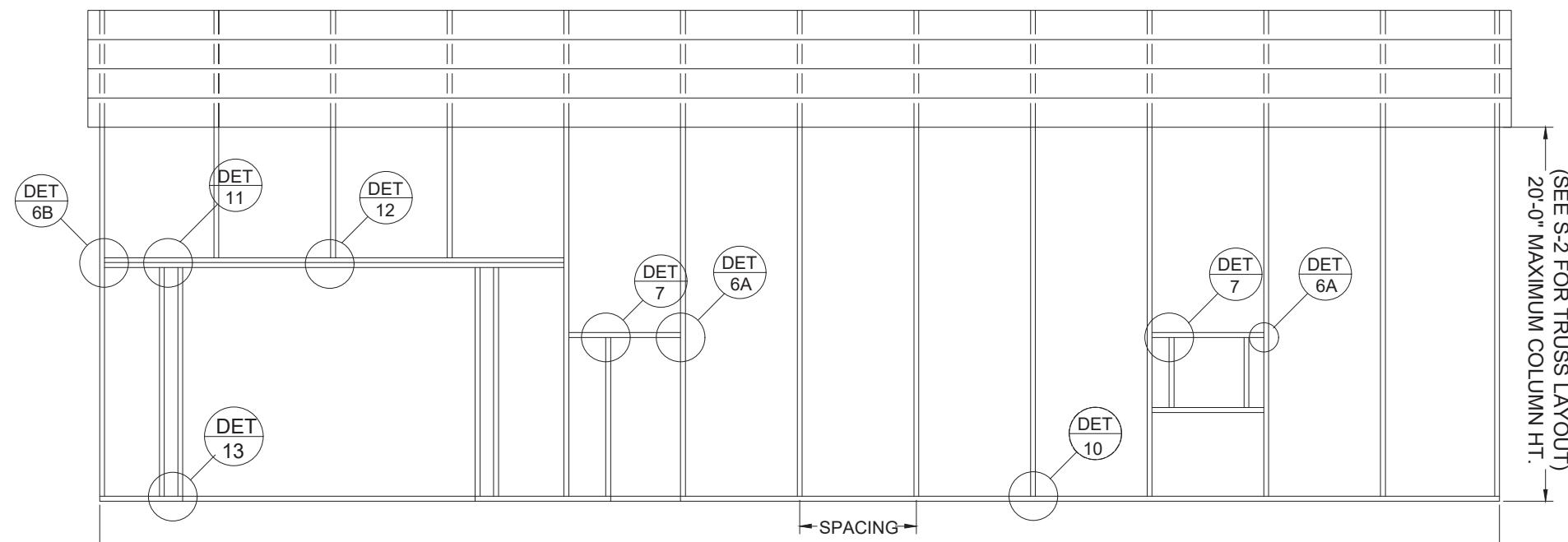
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|     |           |      | SM         |                 |      |                                  |  |                                    |   | SCALE     |
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|     |           |      | JOB No.    |                 |      |                                  |  |                                    |   |           |
|     |           |      | 22047      |                 |      |                                  |  |                                    |   |           |



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

#### **TYPICAL BOX EAVE Rafter END WALL FRAMING SECTION**

SCALE: NTS



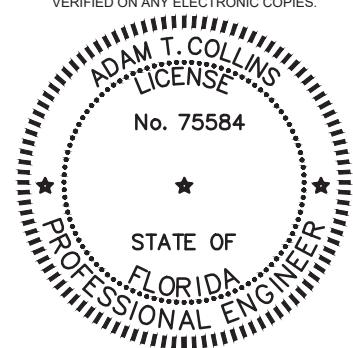
LENGTH = (NUMBER OF RAFTERS + 1) x SPACING OF RAFTERS  
 SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH  
 SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

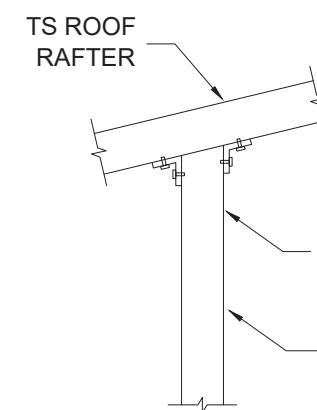
#### **TYPICAL BOX EAVE Rafter SIDE FRAMING SECTION**

SCALE: NTS

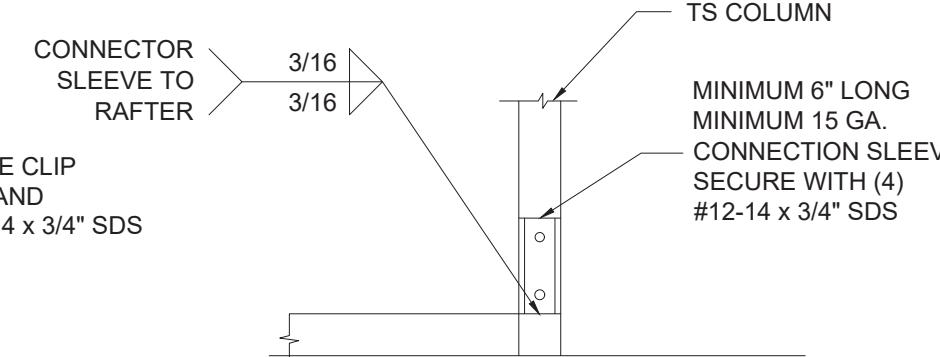
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|-----|-----------|------------|------|----------|------------|------|---|--|---|---|-----------|
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|     |           |            |      | DESIGNED |            |      | CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM  |  |   | AS-SHOWN  |           |
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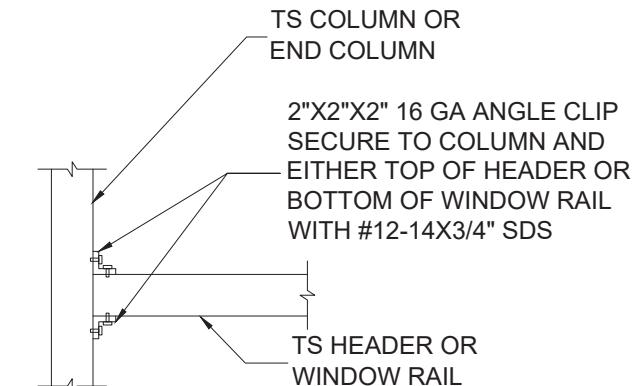




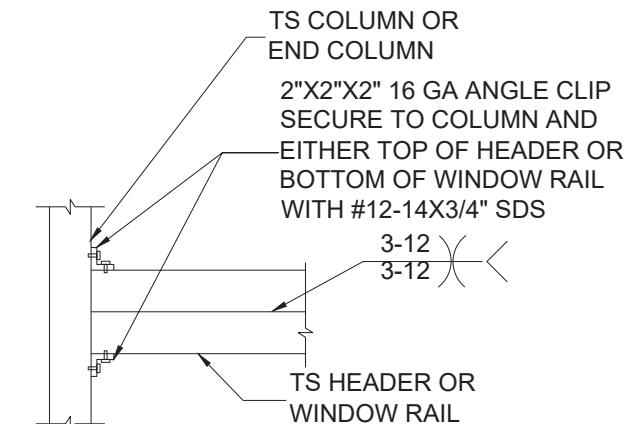
4 POST/RAFTER CONNECTION  
SCALE: NTS



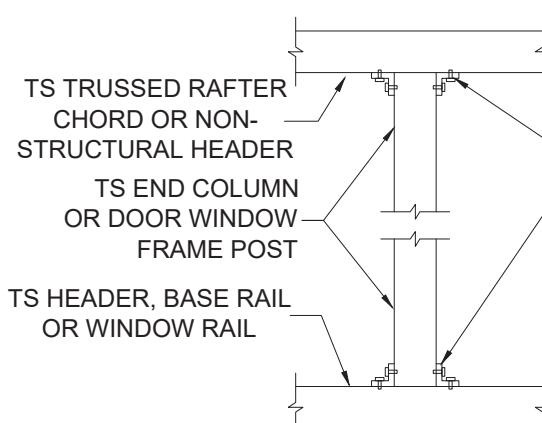
5 POST/BASE RAIL CONNECTION  
SCALE: NTS



6A HEADER TO  
POST CONNECTION  
SCALE: NTS



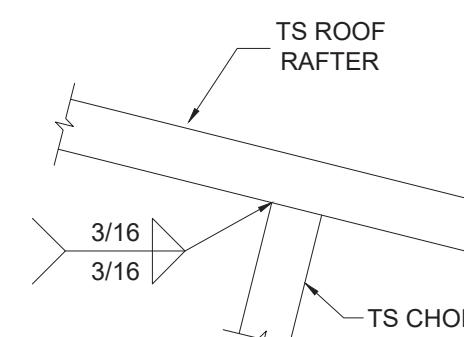
6B DOUBLE HEADER TO  
POST CONNECTION  
SCALE: NTS



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

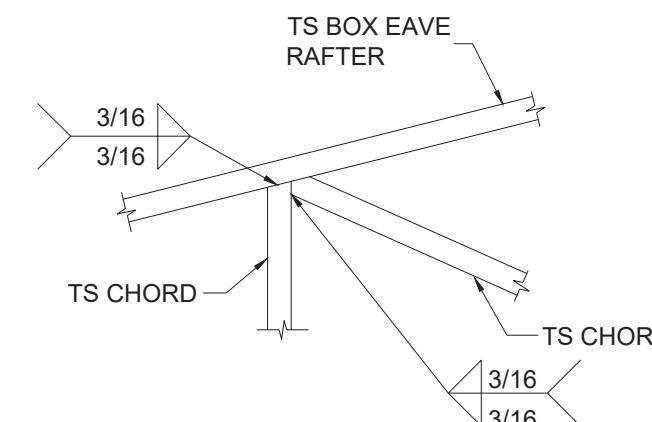
2"x2"x2" 16GA ANGLE CLIP SECURE TO  
COLUMN (EACH SIDE) AND RAFTER  
CHORD/RAIL WITH (4) #12-14X3/4" SDS

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



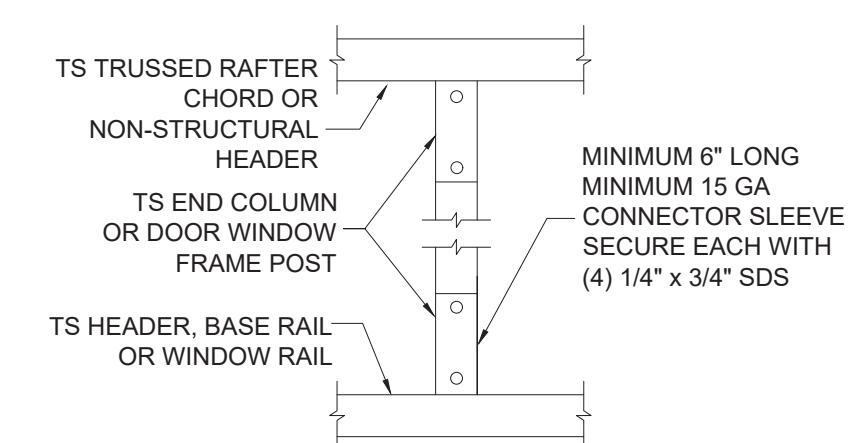
8 Rafter to Chord Connection  
SCALE: NTS

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



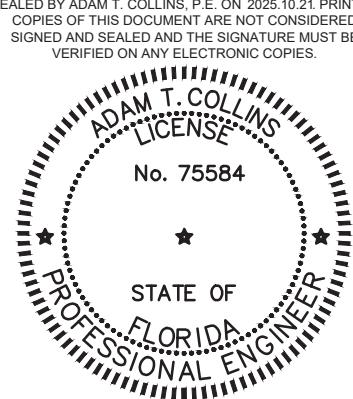
9 TRUSS POST AND CHORD  
TO RAFTER CONNECTION  
SCALE: NTS

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

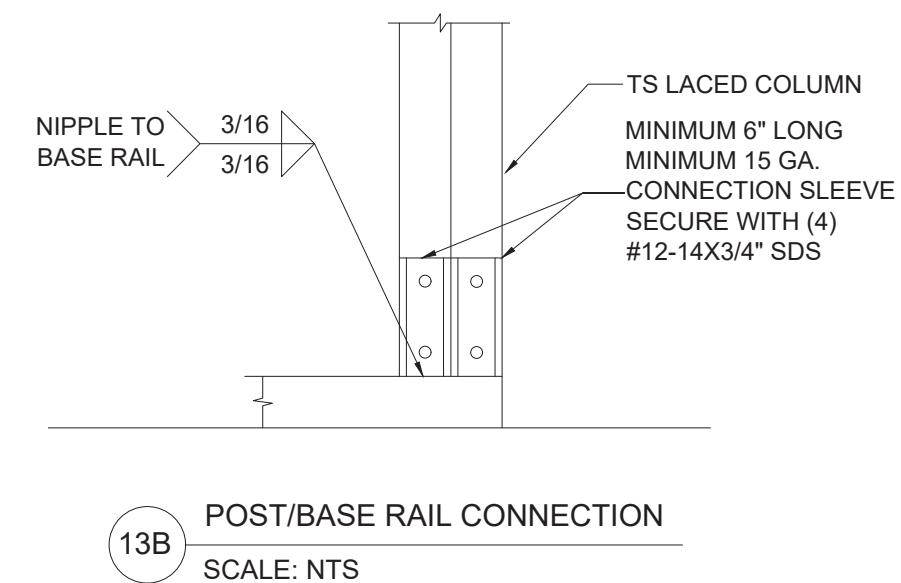
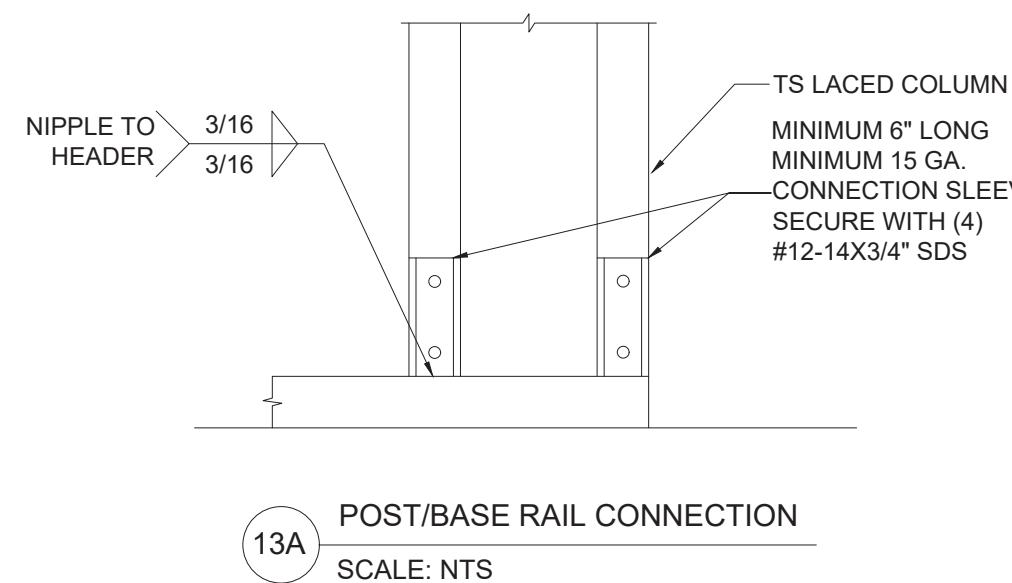
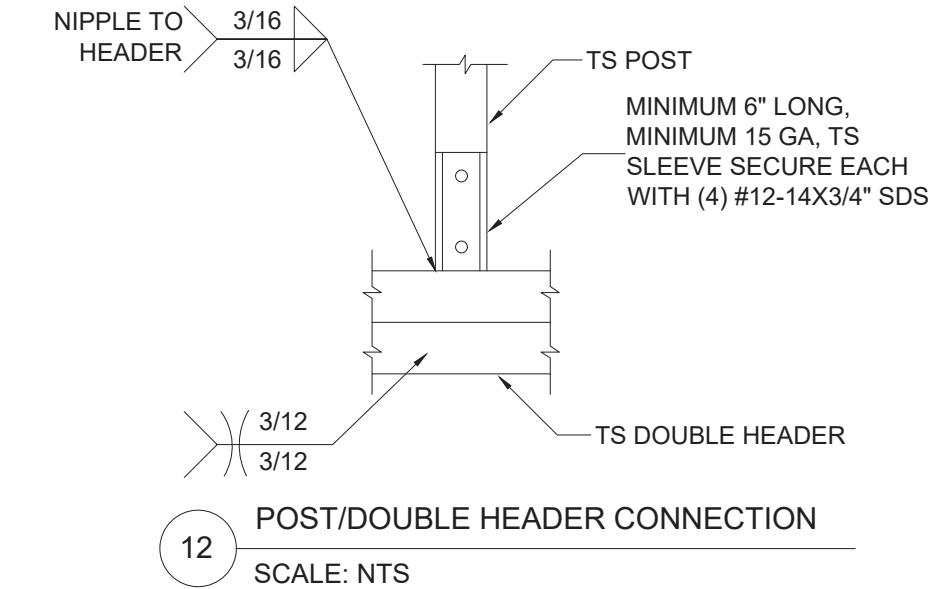
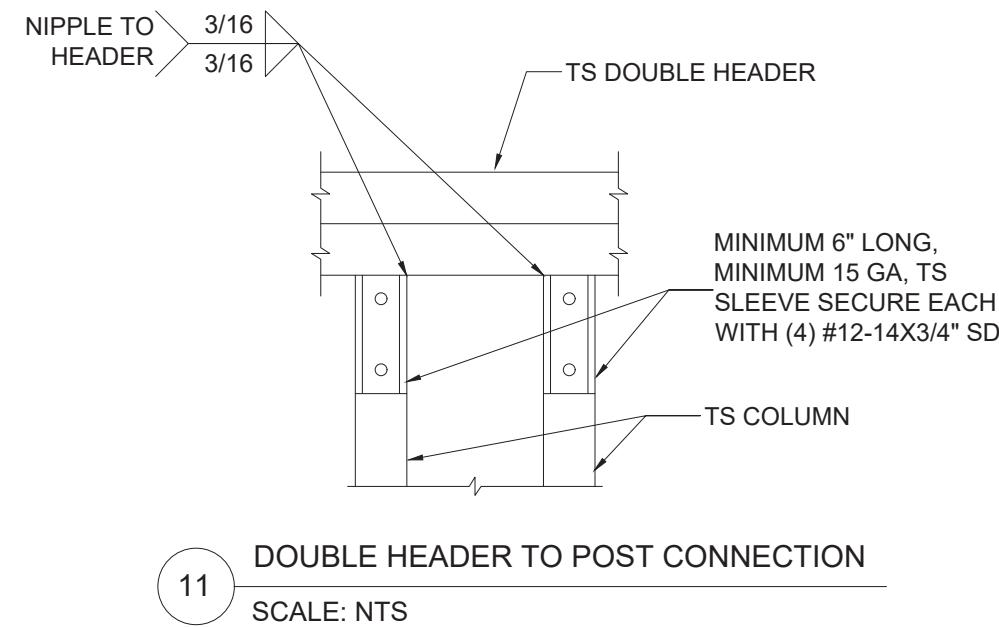


10 POST TO HEADER, BASE  
RAIL CONNECTION  
SCALE: NTS

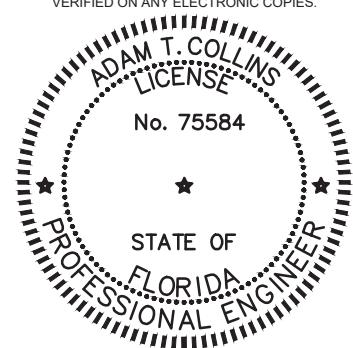
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| NO. | REVISIONS | DATE | DATE DRAWN | 2025.10.21 | SUBMITTALS | DATE | PREPARED BY | CLIENT   | Sheet Title                    | PROJECT   | Sheet No. |
|-----|-----------|------|------------|------------|------------|------|-------------|--|--------------------------------|---|-----------|
|     |           |      | DRAWN      | SM         |            |      |             | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | CONNECTION DETAILS<br>(2 OF 4) | Rick Gottschalk<br>510 SW Mayfair Lane<br>Lake City, FL 32024 | S-6       |
|     |           |      | DESIGNED   | DMC        |            |      |             |  |                                |   | SCALE     |
|     |           |      | CHECKED    | ATC        |            |      |             |  |                                |   | AS-SHOWN  |
|     |           |      | JOB No.    | 22047      |            |      |             |  |                                |   |           |



| NO. | REVISIONS | DATE       | DATE | DRAWN    | SUBMITTALS | DATE | PREPARED BY   | CLIENT   | SHEET TITLE                    | PROJECT   | SHEET NO. |
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|     |           | 2025.10.21 |      | SM       |            |      |  <b>ADAM COLLINS</b><br>ENGINEERING INC. | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | CONNECTION DETAILS<br>(3 OF 4) | Rick Gottschalk<br>510 SW Mayfair Lane<br>Lake City, FL 32024 | S-7       |
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|     |           |            |      | JOB No.  |            |      |   |  |                                |   |           |
|     |           |            |      | 22047    |            |      |   |  |                                |   |           |





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

26 OR 29 GA. METAL ROOF PANELS  
FASTENED TO BOW FRAME WITH 1/4" X 3/4" SDF'S  
WITH CONTROL SEAL WASHER.  
(SEE TABLE 1 FOR FASTENER SPACING)

OPT  
1:12  
2:12  
3:12

14' MAX HEIGHT

MONOLITHIC SLAB FOUNDATION

ANCHOR NOT REQUIRED  
WITH CONCRETE SLAB  
CONSTRUCTION. (SEE DETAIL 3A OR 3B SHEET 4)

5/8" X 30" W/DBL 4" HELIX WITHIN  
6" OF EACH BOW WITH EXTENSIONS  
(SEE DETAIL 3B, SHEET 4)

15  
8

4  
4

4  
3A

4  
3B

14 FT MAX WIDTH

## 14 FT MAX WIDTH FREESTANDING LEAN-TO

SCALE: NTS

26 OR 29 GA. GALVANIZED METAL ROOF PANELS  
FASTENED TO RAFTER/BOW FRAME WITH  
#12-14 X 3/4" SDF'S WITH CONTROL SEAL WASHER  
(SEE TABLE 1 FOR FASTENER SPACING)

15  
8

MONOLITHIC SLAB

4  
3A

DO ANCHOR

15 FT - 16 FT WIDTH

5/8" X 30" WITH DBL 4" HELIX WITHIN 6" OF  
EACH BOW WITH EXTENSIONS  
(SEE DETAIL 4 SHEET 3)

ANCHORS NOT REQUIRED WITH CONCRETE  
SLAB CONSTRUCTION.  
(SEE DETAIL 3A SHEET 4)

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

SCALE: NT

26 OR 29 GA. GALVANIZED METAL ROOF PANELS  
FASTENED TO RAFTER/BOW FRAME WITH  
#12-14 X 3/4" SDF'S WITH CONTROL SEAL WASHER  
(SEE TABLE 1 FOR FASTENER SPACING)

15  
8

4  
4

4  
3B

4  
3A

MONOLITHIC SLAB

GROUND ANCHOR

17 FT - 24 FT WIDTH

5/8" X 30" WITH DBL 4" HELIX WITHIN 6" OF  
EACH BOW WITH EXTENSIONS  
(SEE DETAIL 4 SHEET 3)

ANCHORS NOT REQUIRED WITH CONCRETE  
SLAB CONSTRUCTION.  
(SEE DETAIL 3A SHEET 4)

## 17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO

SCALE: NTS

26 OR 29 GA. GALVANIZED METAL ROOF PANELS  
FASTENED TO RAFTER/BOW FRAME WITH  
#12-14 X 3/4" SDF'S WITH CONTROL SEAL WASHER  
(SEE TABLE 1 FOR FASTENER SPACING)

MONOLITHIC SLAB

GROUND ANCHOR

17 FT - 24 FT WIDTH

5/8" X 30" WITH DBL 4" HELIX WITHIN 6" OF  
EACH BOW WITH EXTENSIONS  
(SEE DETAIL 4 SHEET 3)

ANCHORS NOT REQUIRED WITH CONCRETE  
SLAB CONSTRUCTION.  
(SEE DETAIL 3A SHEET 4)

17 FT - 20 FT MAX HEIGHT

## 17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO

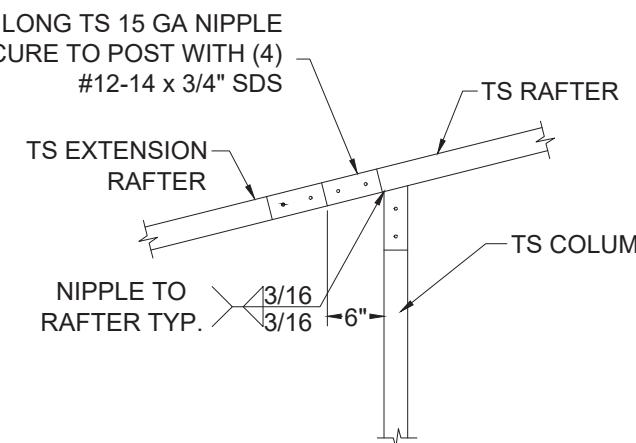
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|          |           |      |      |           |            |      |  <b>ADAM COLLINS</b><br>ENGINEERING INC. |  | <b>FREESTANDING BOX</b><br><b>EAVE RAFTER</b><br><b>LEAN-TO OPTIONS</b> | Rick Gottschalk<br>510 SW Mayfair Lane<br>Lake City, FL 32024 | S-9       |
| DRAWN    | SM        |      |      |           |            |      |   | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE |   |   |           |
| DESIGNED | DMC       |      |      |           |            |      |   |  |   |   |           |
| CHECKED  | ATC       |      |      |           |            |      |   |  |   |   |           |
| JOB NO.  | 22047     |      |      |           |            |      | CA# 31728 ~ P: 386.320.7400 ~ WWW.COLINSENG.COM   |  |   |   |           |

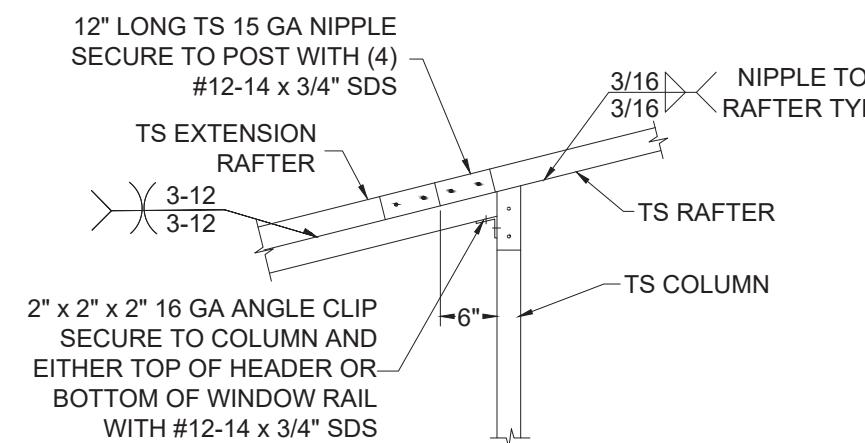
DATE PREPARED BY  
 ADAM COLLINS  
ENGINEERING INC.  
CA# 31728 ~ P: 386.320.7400 ~ [WWW.COLLINSENG.COM](http://WWW.COLLINSENG.COM)



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

SCALE: NTS

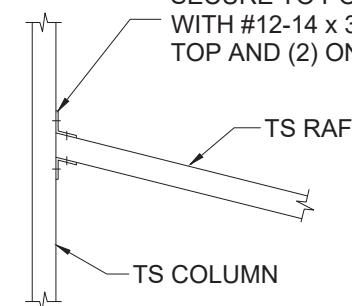
SCALE: NTS



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

16B

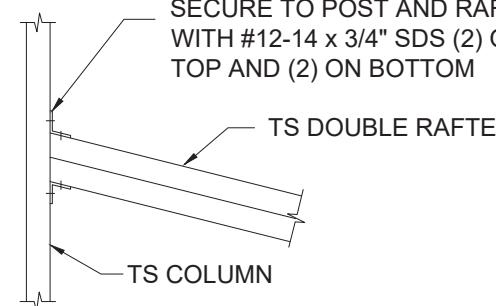
2"X2"X2" 16GA ANGLE CLIP  
SECURE TO POST AND RAFTERS  
WITH #12-14 x 3/4" SDS (2) ON  
TOP AND (2) ON BOTTOM



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

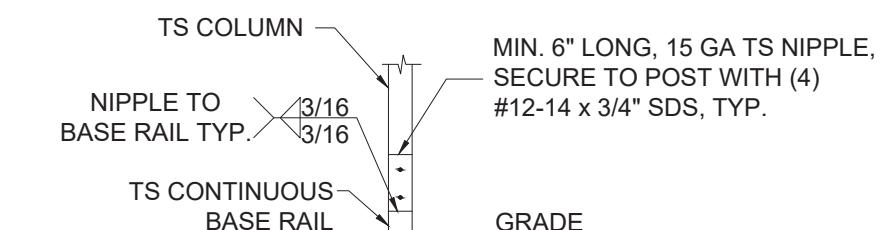
17B

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



## LEAN TO RAFTER/COLUMN CONNECTION RAFTER SPAN BETWEEN 12'-0" AND 16'-0"

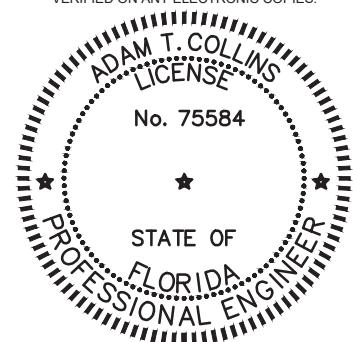
B SCALE: NT

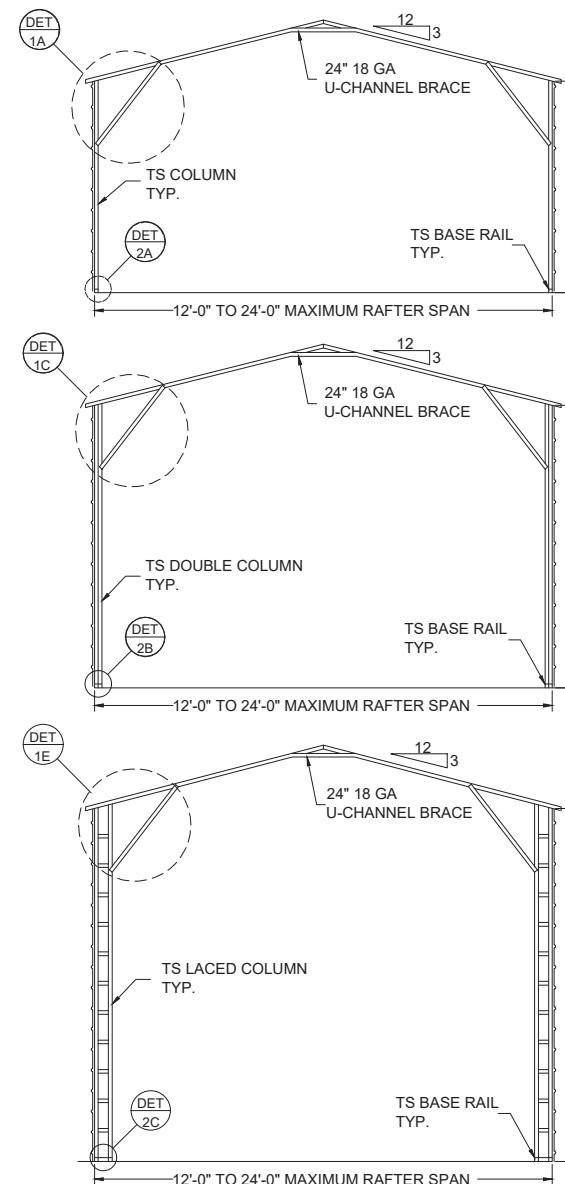


18 LEAN-TO POST CONNECTION  
SCALE: NTS

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

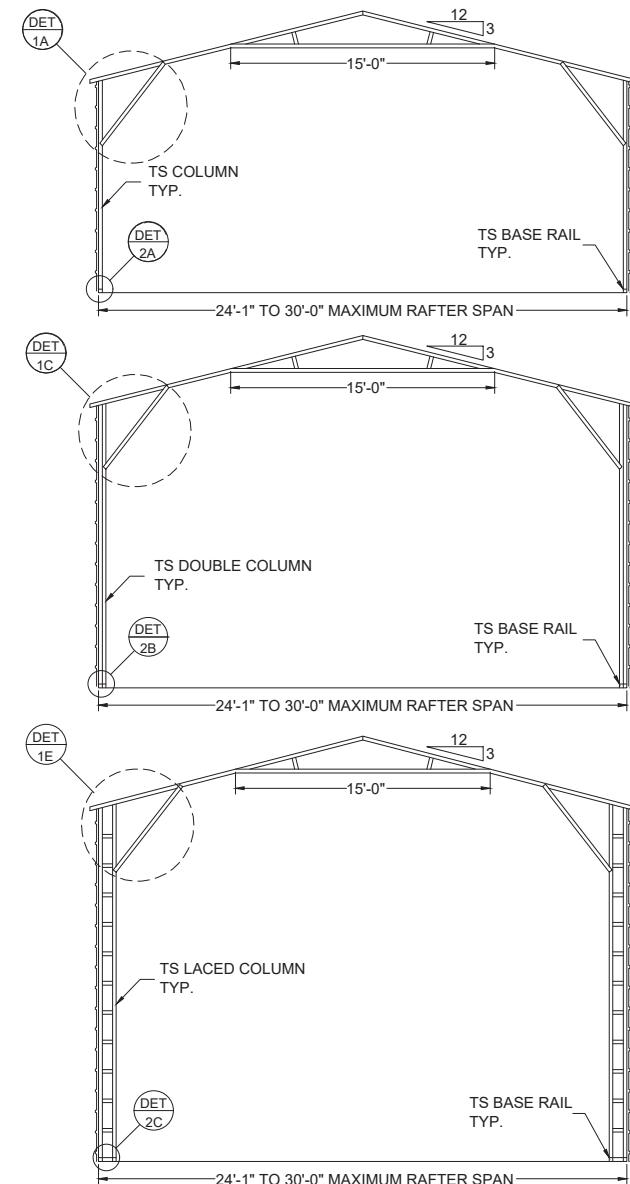
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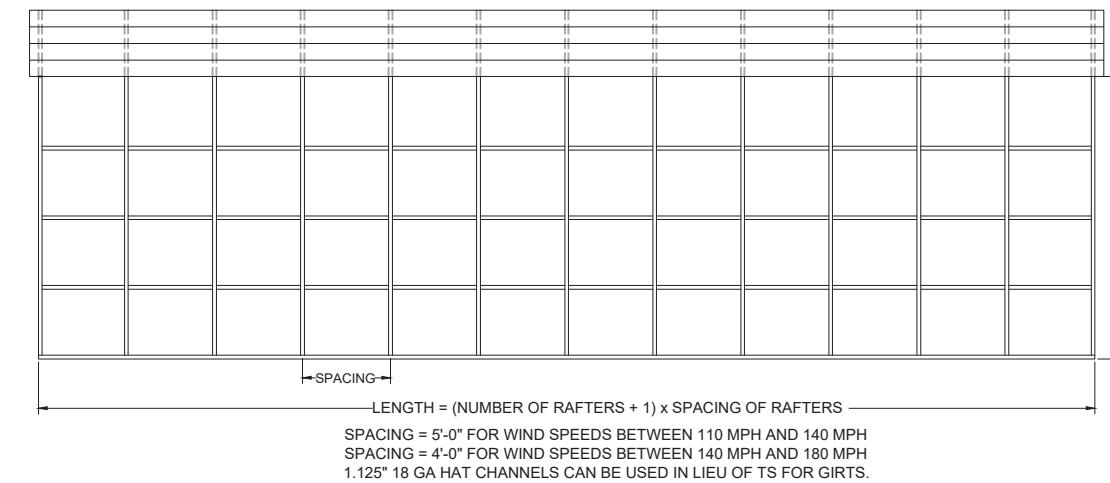
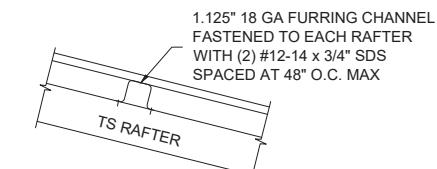


BOX EAVE FRAME

SCALE: NTS

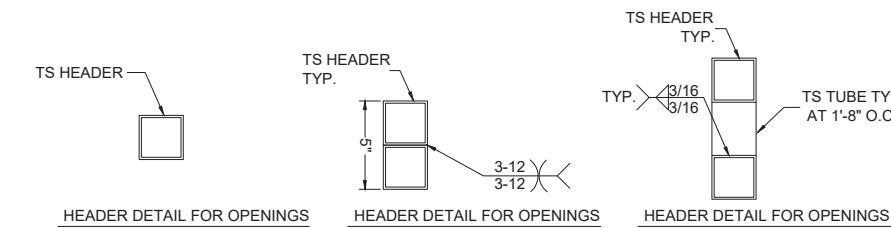
PANEL ATTACHMENT  
(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



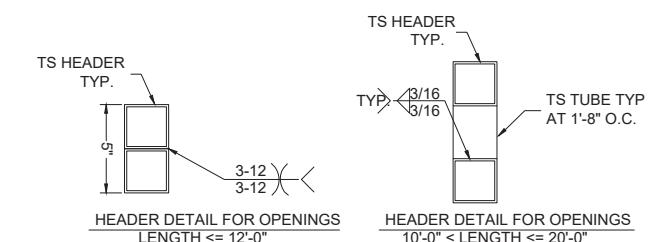
TYPICAL SIDE FRAME SECTION

SCALE: NTS



SIDE WALL OPTION HEADER

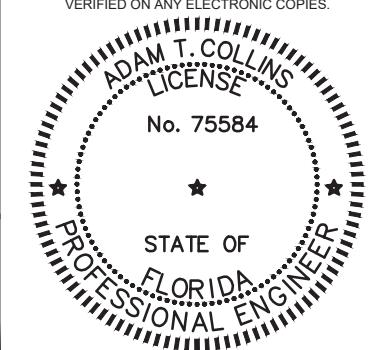
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END WALL OPTION HEADER

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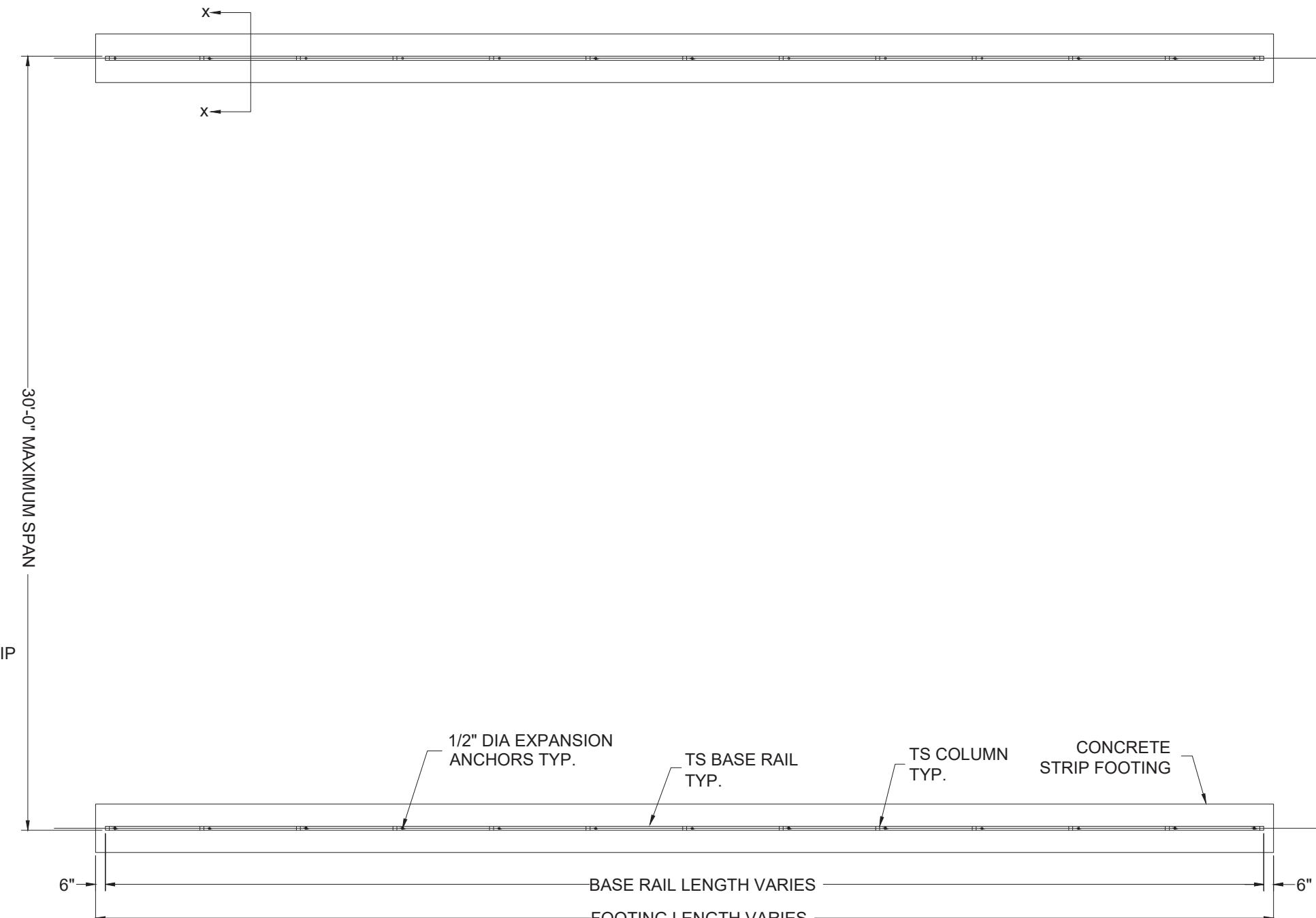
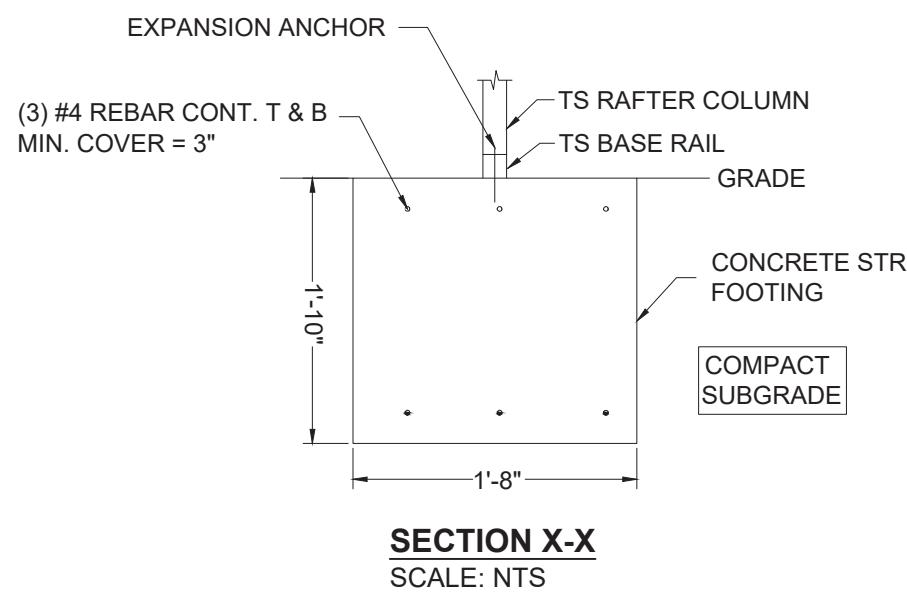
| NO. | REVISIONS | DATE | DATE DRAWN | 2025.10.21 | SUBMITTALS | DATE | PREPARED BY                                      | CLIENT   | SHEET TITLE                                       | PROJECT   | SHEET NO. |
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|     |           |      | DRAWN      | SM         |            |      | ADAM COLLINS<br>ENGINEERING INC.                 | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | BOX EAVE RAFTER<br>VERTICAL<br>ROOF-SIDING OPTION | Rick Gottschalk<br>510 SW Mayfair Lane<br>Lake City, FL 32024 | S-11      |
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|     |           |      | JOB No.    | 22047      |            |      |  |  |   |   |           |

**GENERAL NOTES**

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

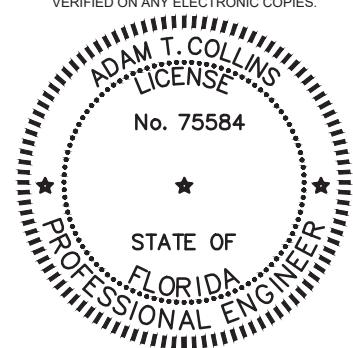
**REINFORCING STEEL**

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.



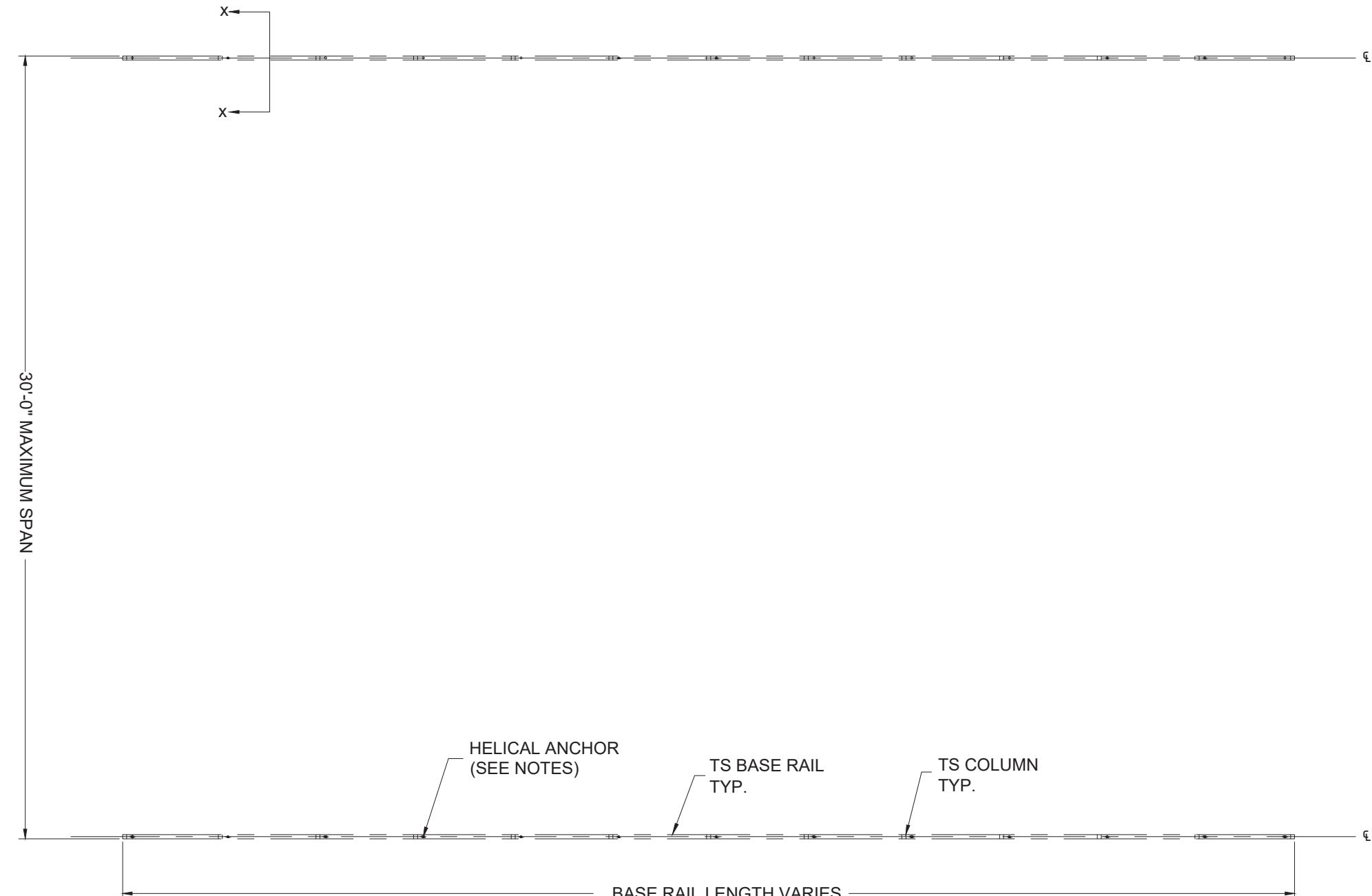
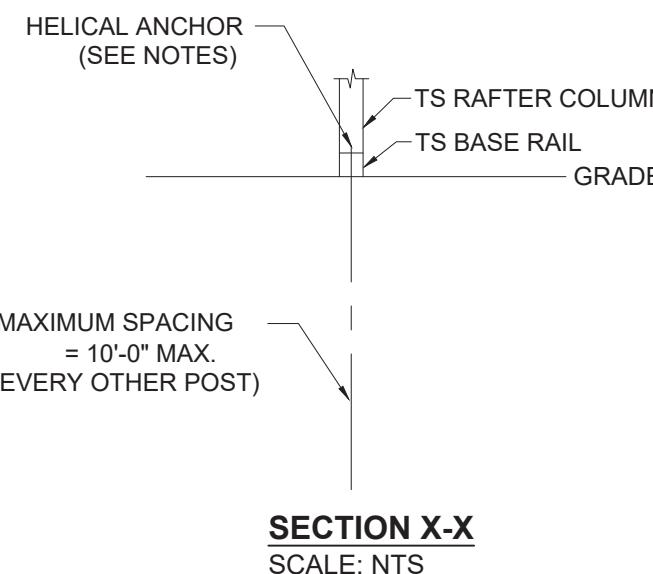
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|     |           | 2025.10.21 |      | SM       |            |      |  <b>ADAM COLLINS</b><br>ENGINEERING INC. | ELITE METAL<br>MANUFACTURING<br>10121 88TH TRACE | OPTIONAL CONCRETE<br>STRIP FOOTING | Rick Gottschalk<br>510 SW Mayfair Lane<br>Lake City, FL 32024 | S-12      |
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### HELIX ANCHOR NOTES

1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
  - 1.1. VERY DENSE AND/OR CEMENTED SANDS
  - 1.2. COARSE GRAVEL AND COBBLES
  - 1.3. CALICHE
  - 1.4. PRELOADED SILTS AND CLAYS
  - 1.5. CORALS
  - 1.6. MEDIUM DENSE COARSE SANDS
  - 1.7. SANDY GRAVEL
  - 1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
  - 2.1. LOOSE TO MEDIUM DENSE SANDS
  - 2.2. FIRM TO STIFF CLAYS AND SILTS
  - 2.3. ALLUVIAL FILL
3. USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.
  - 3.1. FOR VERY LOOSE TO MEDIUM DENSE SANDS
  - 3.2. FIRM TO STIFFER CLAYS AND SILTS
  - 3.3. ALLUVIAL FILL,



|     |           |      |      |          |            |            |      |   |   |  |  |                     |
|-----|-----------|------|------|----------|------------|------------|------|---|---|--|--|---------------------|
| NO. | REVISIONS | DATE | DATE | DRAWN    | 2025.10.21 | SUBMITTALS | DATE | PREPARED BY   | CLIENT  | SHEET TITLE  | PROJECT  | SHEET NO.           |
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|     |           |      |      | CHECKED  | DMC        |            |      |   |   |  |  |                     |
|     |           |      |      | JOB No.  | ATC        |            |      |   |   |  |  |                     |
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