

APPLICABLE CODES AND STANDARDS

- 1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
- 2. 2021 INTERNATIONAL BUILDING CODE
- 3. ASCE 7-16: 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. MAXIMUM ROOF PITCH 4:12
- 2. END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE IDENTICAL, 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. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS, U.N.O.
- 4. FASTENER SPACING ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE AS FOLLOWS: INTERIOR - 9" O.C., END - 6" O.C.
- 5. 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 AND ROOF SLOPES OF 18° (4:12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS/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) CONSISTING OF 30" LONG #4 REBAR WITH WELDED NUT MAY BE USED IN SUITABLE SOILS AND WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.

DESIGN LOADS

|                          |          |
|--------------------------|----------|
| DEAL LOAD                | 15 PSF   |
| LIVE LOAD                | 20 PSF   |
| NOMINAL WIND SPEED       | 108 MPH  |
| ULTIMATE WIND SPEED      | 140 MPH  |
| WIND EXPOSURE            | B        |
| RISK CATEGORY            | II       |
| ENCLOSURE CLASSIFICATION | ENCLOSED |
| OCCUPANCY CLASSIFICATION | S-2      |

| SPACING SPECIFICATIONS |                        |                      |                          |                                              |                                                        |     |
|------------------------|------------------------|----------------------|--------------------------|----------------------------------------------|--------------------------------------------------------|-----|
| RISK CATEGORY          | WIND EXPOSURE CATEGORY | ULT WIND SPEED (MPH) | NOMINAL WIND SPEED (MPH) | MAXIMUM RAFTER/BOW AND END POST SPACING (FT) | FASTENER SPACING O.C. FOR RAFTERS/PURLINS & POSTS (IN) |     |
|                        |                        |                      |                          |                                              | INTERIOR                                               | END |
| I, II, III, or IV      | B, C, or D             | 115–150              | 89–116                   | 5                                            | 6                                                      | 6   |
|                        |                        | 151–180              | 117–139                  | 4                                            | 6                                                      | 6   |

NOTES:

1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GA METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GA STEEL TUBE FRAMES.

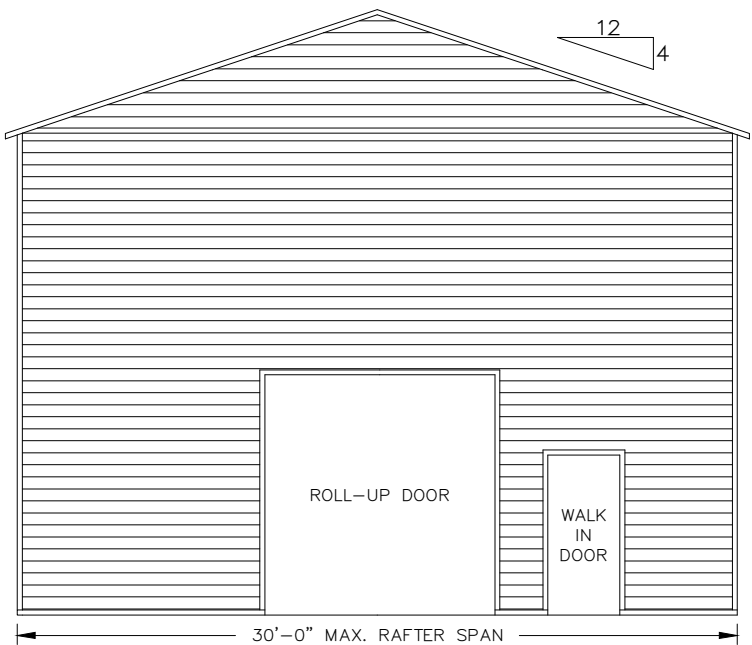
2. FASTENERS CONSIST OF #12–14 x 3/4" SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.

3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 4:12 PITCH. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS/SLOPES MAY VARY.

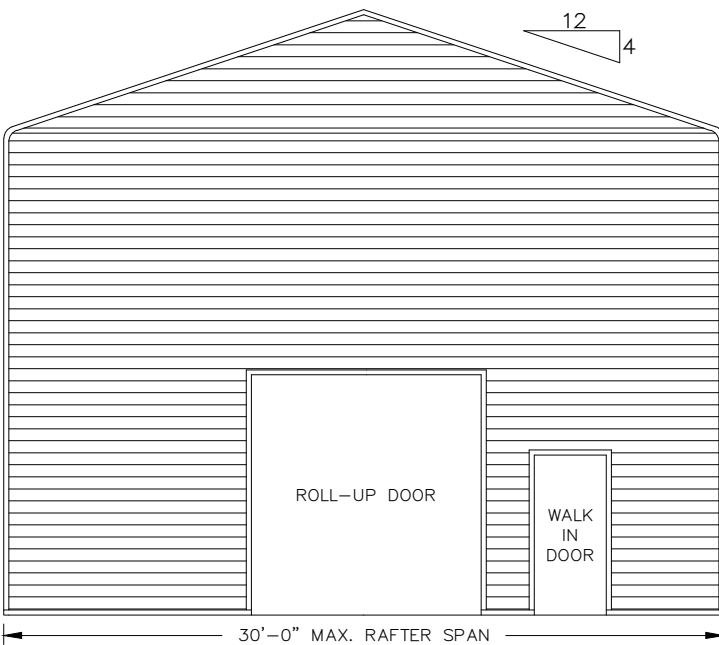
4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.

5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

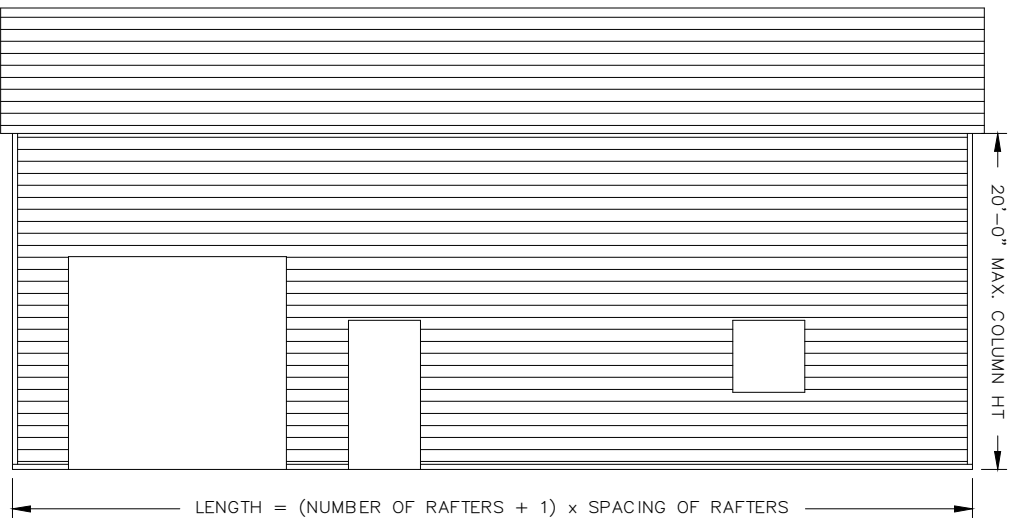
ENCLOSED METAL BUILDING  
30FT WIDE x 40FT LONG x 12FT EAVE HT.



TYPICAL ELEVATION - BOX EAVE  
SCALE: NTS



TYPICAL ELEVATION - BOW EAVE  
SCALE: NTS



TYPICAL SIDE ELEVATION  
SCALE: NTS

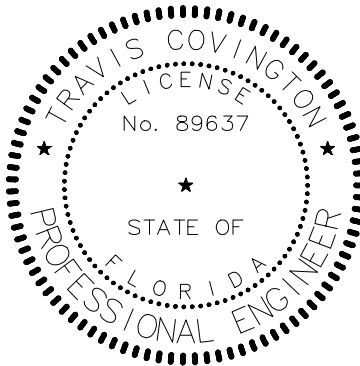
| MEMBER       | PRODUCT APPROVAL NUMBER | MAX WIND DESIGN PRESSURES |
|--------------|-------------------------|---------------------------|
| ROOF PANELS  | FL39466.1/FL39466.2     | +41.6 PSF / -31.2 PSF     |
| WALL PANELS  | FL39594.1/FL39594.2     | +55.4 PSF / -41.6 PSF     |
| GARAGE DOOR  | C TP                    | C TP                      |
| WALK-IN DOOR | C TP                    | C TP                      |



| DRAWING INDEX |                                                |
|---------------|------------------------------------------------|
| SHEET NO.     | DESCRIPTION                                    |
| S.1           | GENERAL NOTES & SPECIFICATIONS                 |
| S.2           | BOX/BOW EAVE TYPICAL FRAMING SECTIONS          |
| S.3           | CONNECTION DETAILS (1 OF 2)                    |
| S.4           | BASE RAIL & ANCHORAGE DETAILS                  |
| S.5           | END WALL, SIDE WALL, & OPENING TYPICAL FRAMING |
| S.6           | CONNECTION DETAILS (2 OF 2)                    |
| S.7           | BOX EAVE LEAN-TO OPTIONS                       |
| S.8           | FREESTANDING LEAN-TO OPTIONS                   |
| S.9           | VERTICAL ROOF-SIDING OPTION                    |
| S.10          | OPTIONAL CONCRETE STRIP FOOTING DETAILS        |
| S.11          | OPTIONAL HELICAL ANCHORAGE DETAILS             |

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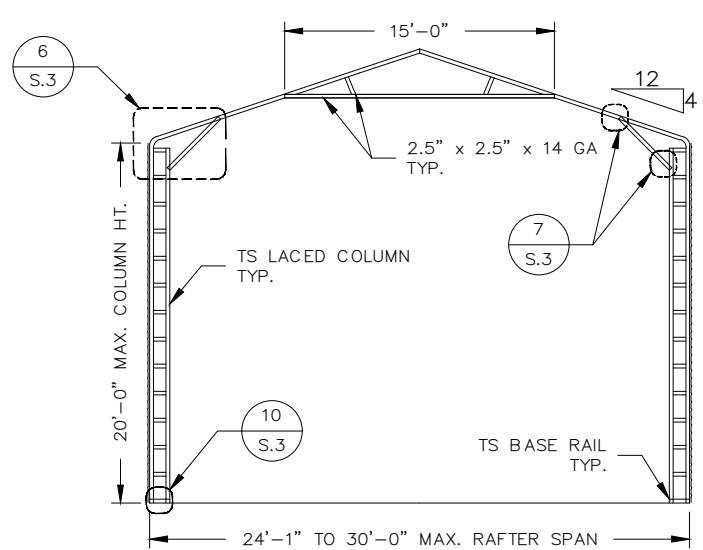
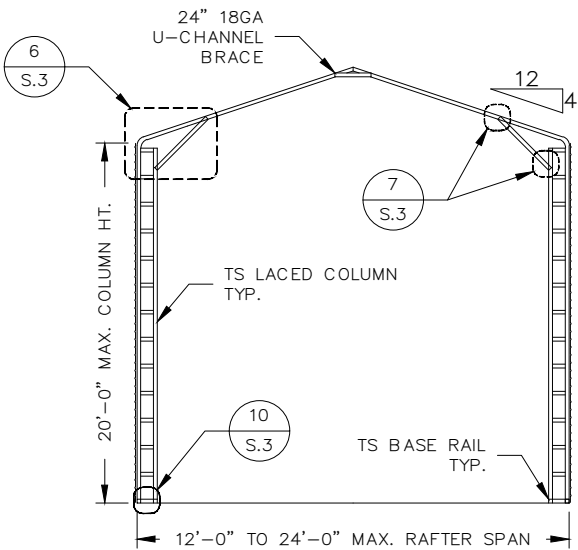
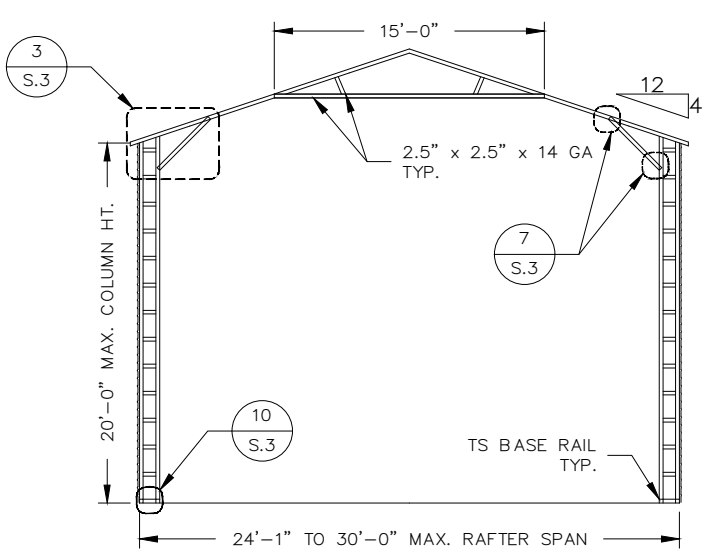
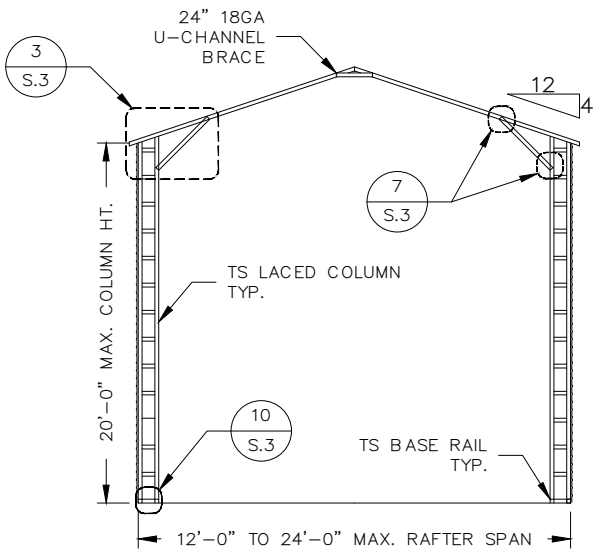
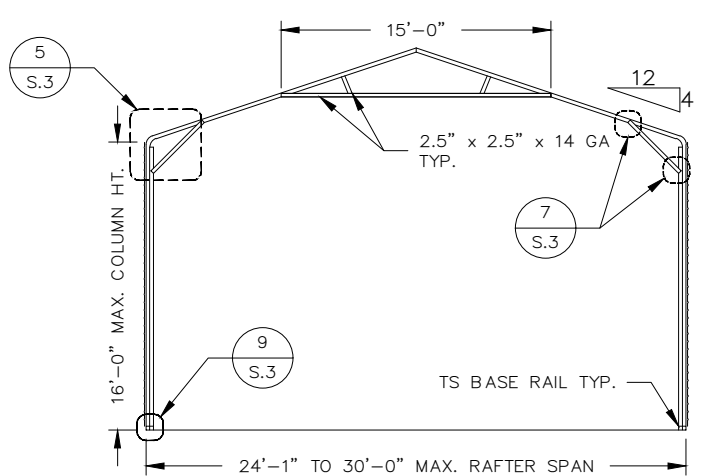
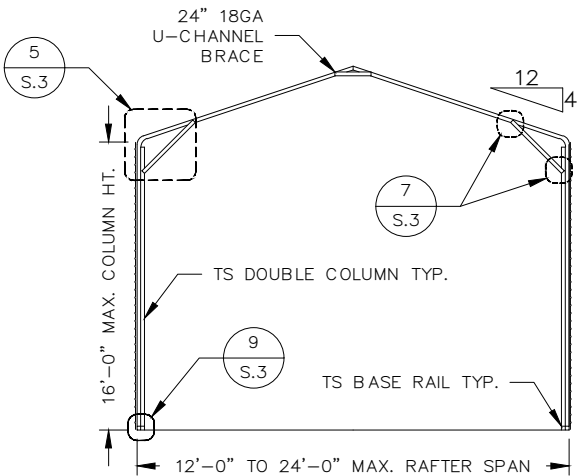
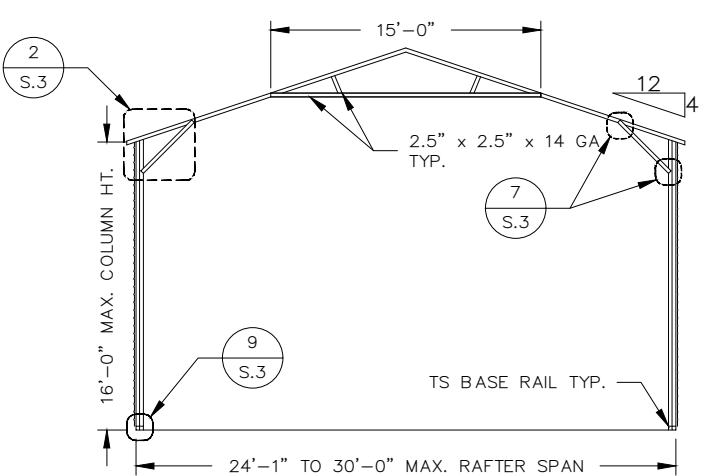
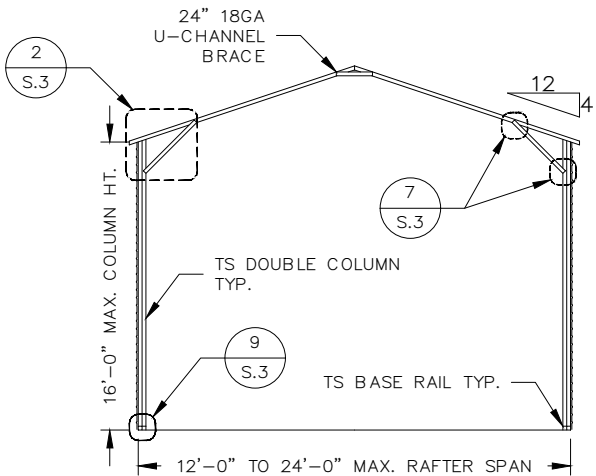
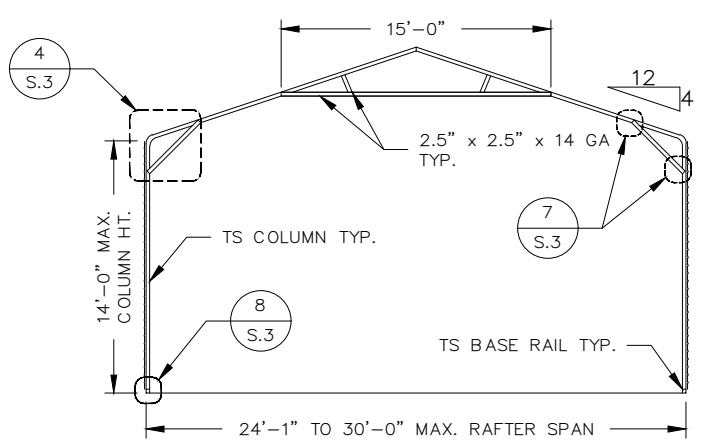
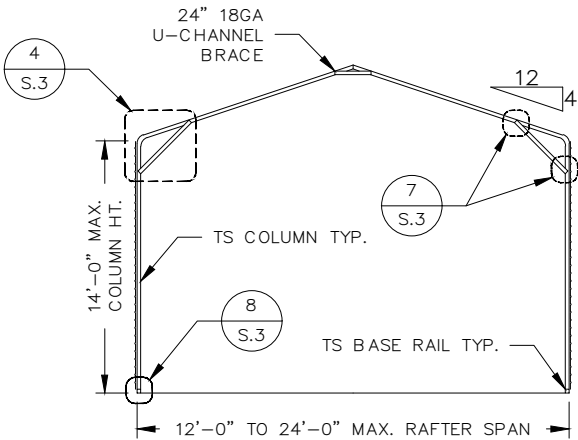
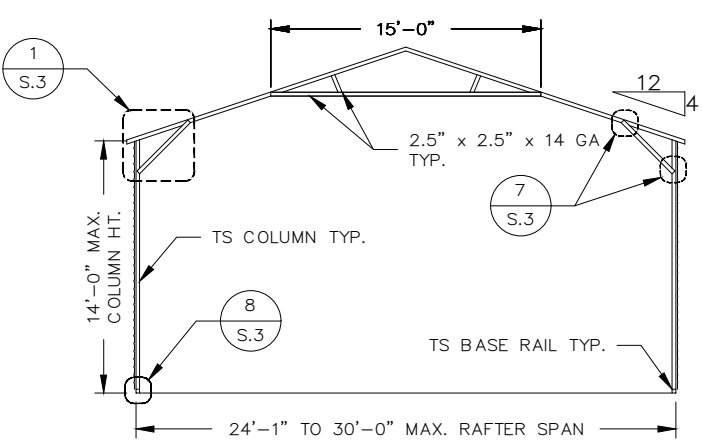
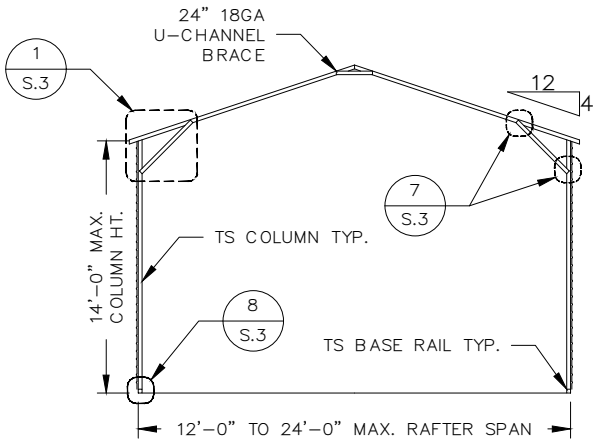
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TRAVIS@COVINGTONENG.COM

|           |                       |
|-----------|-----------------------|
| PROJECT:  | WILSON METAL BUILDING |
| CLIENT:   | JUSTIN WILSON         |
| LOCATION: | 490 SW PRECISION LOOP |
| JOB NO:   | E077                  |

GENERAL NOTES & SPECIFICATIONS

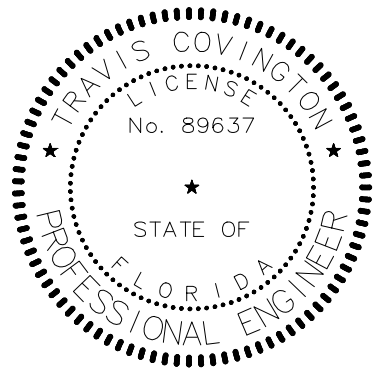
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| SCALE:   | SHEET NO: |
| AS NOTED | S.1       |



**BOX EAVE FRAMING**  
SCALE: NTS

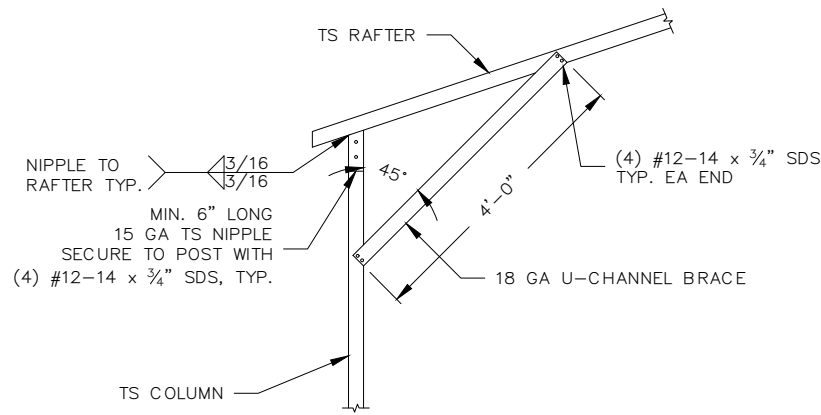
**BOW EAVE FRAMING**  
SCALE: NTS

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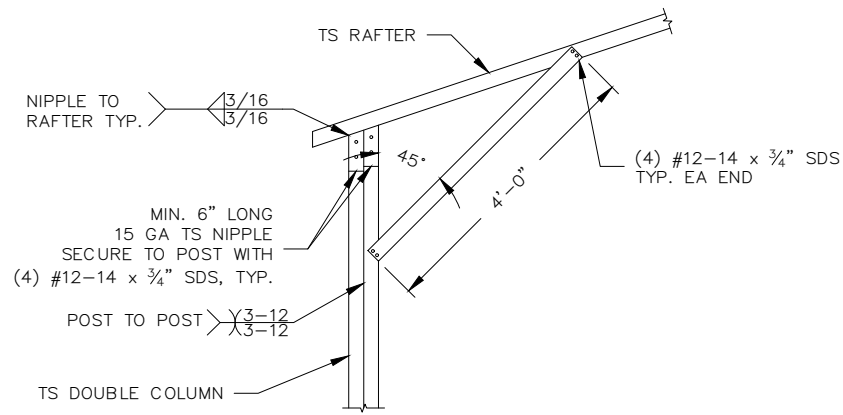


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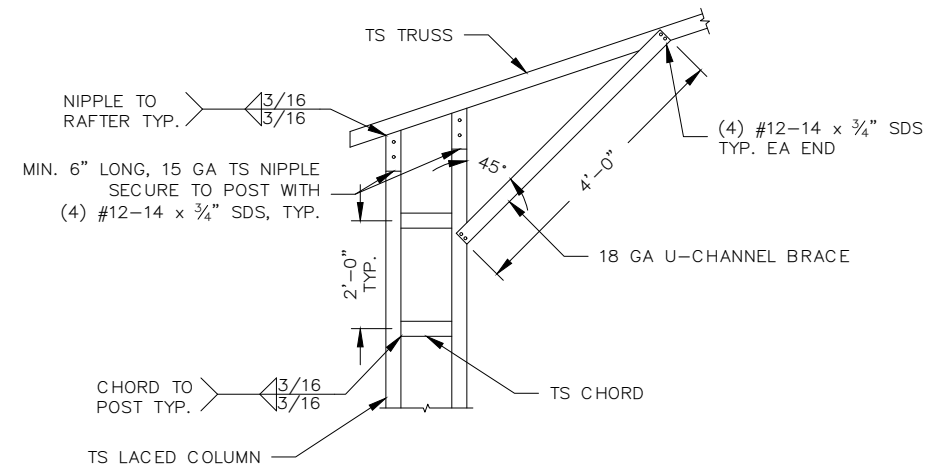
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|                                                                                                                                 |  | CLIENT:   | JUSTIN WILSON         |                                              |           |
|                                                                                                                                 |  | LOCATION: | 490 SW PRECISION LOOP | SCALE:                                       | SHEET NO: |
|                                                                                                                                 |  | JOB NO:   | E077                  | AS NOTED                                     | S.2       |



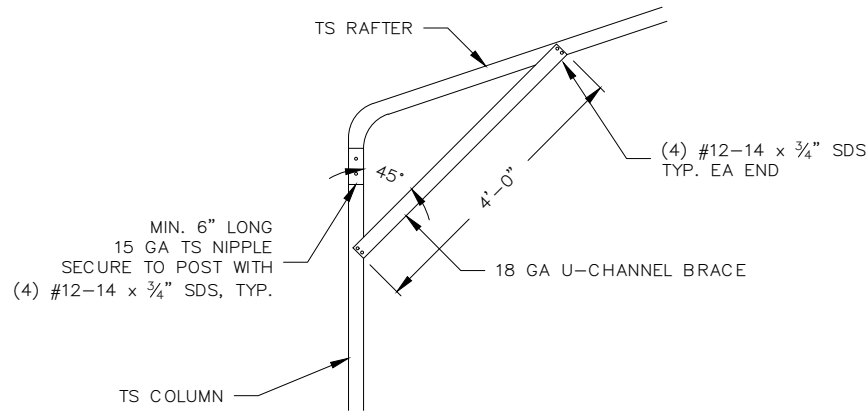
1 BOX EAVE RAFTER/CORNER POST CONNECTION  
MAX. 30' WIDTH, MAX. 14' EAVE HT  
SCALE: NTS



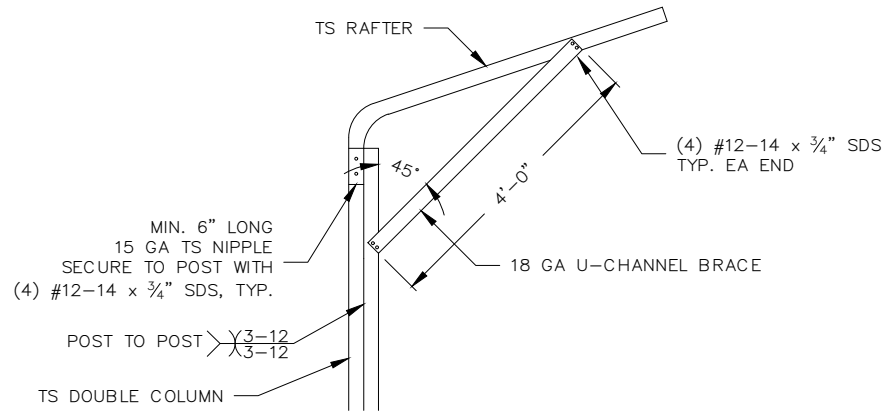
2 BOX EAVE RAFTER/CORNER POST CONNECTION  
MAX. 30' WIDTH, MAX. 16' EAVE HT  
SCALE: NTS



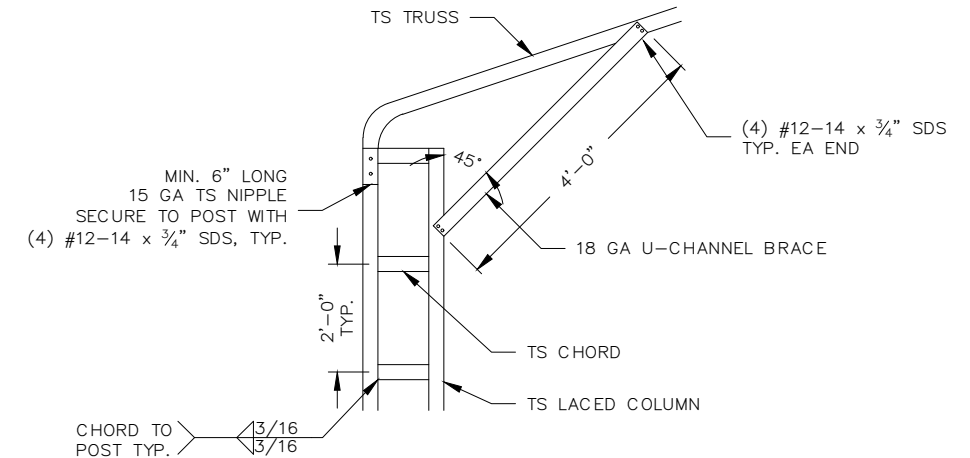
3 BOX EAVE RAFTER/CORNER POST CONNECTION  
MAX. 30' WIDTH, MAX. 20' EAVE HT  
SCALE: NTS



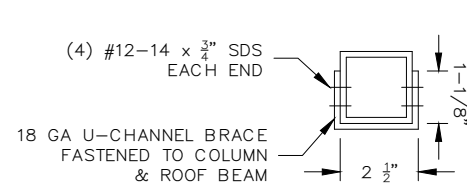
4 BOW EAVE RAFTER/CORNER POST CONNECTION  
MAX. 30' WIDTH, MAX. 14' EAVE HT  
SCALE: NTS



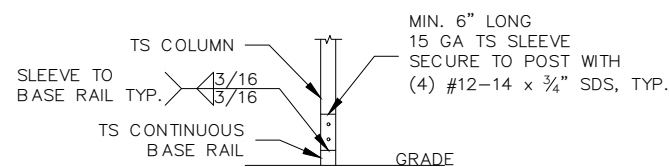
5 BOW EAVE RAFTER/CORNER POST CONNECTION  
MAX. 30' WIDTH, MAX. 16' EAVE HT  
SCALE: NTS



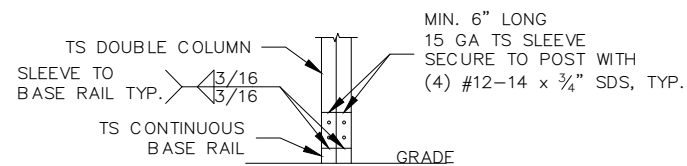
6 BOW EAVE RAFTER/CORNER POST CONNECTION  
MAX. 30' WIDTH, MAX. 20' EAVE HT  
SCALE: NTS



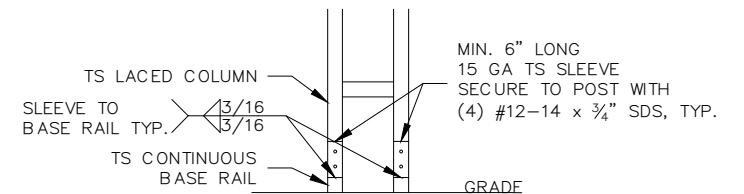
7 BRACE CONNECTION DETAIL  
SCALE: NTS



8 POST/BASE RAIL CONNECTION  
SINGLE COLUMN  
SCALE: NTS

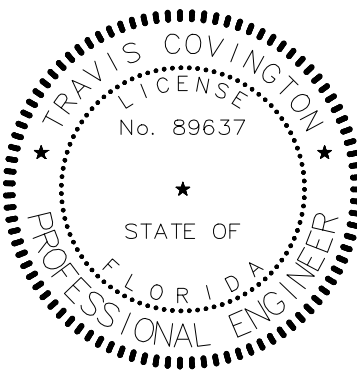


9 POST/BASE RAIL CONNECTION  
DOUBLE COLUMN  
SCALE: NTS



10 POST/BASE RAIL CONNECTION  
LACED COLUMN  
SCALE: NTS

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| COVINGTON ENGINEERING SERVICES<br>272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055<br>813.770.9470<br>TRAVIS@COVINGTONENG.COM | PROJECT:  | WILSON METAL BUILDING | CONNECTION DETAILS (1 OF 2) |                      |
|                                                                                                                          | CLIENT:   | JUSTIN WILSON         |                             |                      |
|                                                                                                                          | LOCATION: | 490 SW PRECISION LOOP | SCALE:<br><br>AS NOTED      | SHEET NO:<br><br>S.3 |
|                                                                                                                          | JOB NO:   | E077                  |                             |                      |

GENERAL NOTES

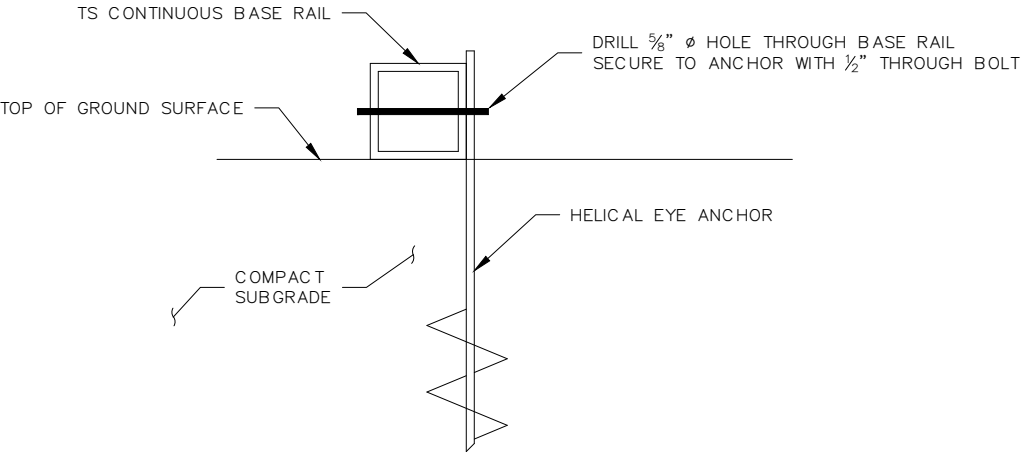
- 1. MINIMUM SOIL BEARING CAPACITY: 1500 PSF
- 2. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL NOTES

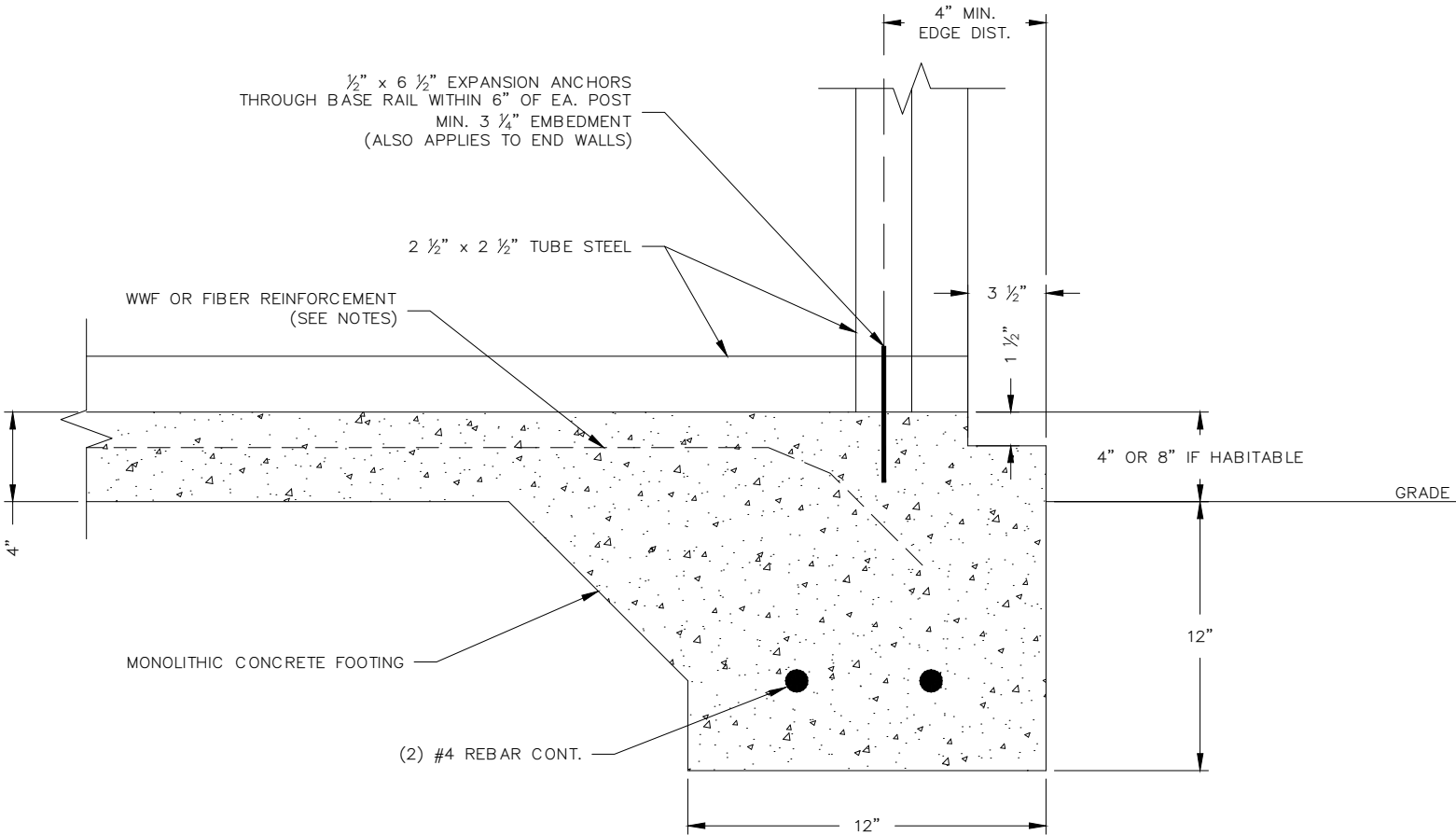
- 1. REBAR SHALL BE ASTM A615 GRADE 60
- 2. SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 3. CONCRETE COVER SHALL BE 3" WHERE CONCRETE IS EXPOSED TO SOIL OR WATER; 2" EVERYWHERE ELSE
- 4. REBAR SHALL BE BENT WITHOUT HEATING; MINIMUM BEND LENGTH = 6 x BAR DIAMETER
- 5. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

HELICAL ANCHOR NOTES

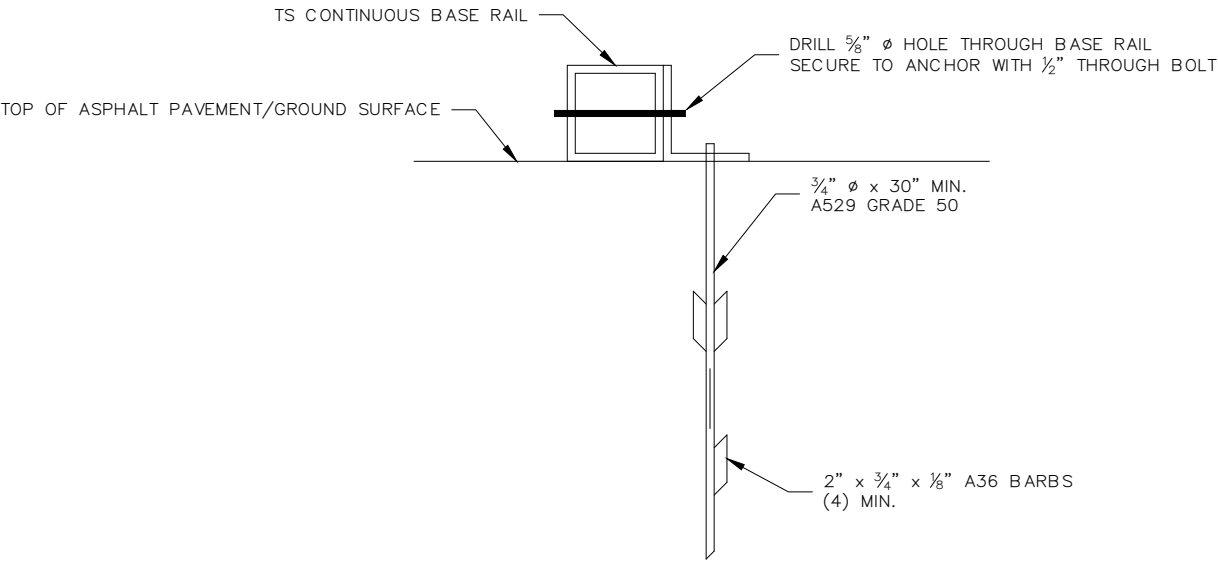
- 1. MINIMUM OF (2) 4" HELICES WITH 30" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY DENSE AND OR/OR CEMENTED SOILS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILT AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, AND VERY STIFF SILTS AND CLAYS
- 2. MINIMUM OF (2) 6" HELICES WITH 48" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, AND ALLUVIAL FILL
- 3. MINIMUM OF (2) 8" HELICES WITH 60" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY LOOSE TO MEDIUM DENSE SANDS AND FIRM TO STIFFER CLAYS AND SILTS



**B** GROUND BASE HELICAL ANCHORAGE  
SCALE: NTS



**A** BASE RAIL ANCHORAGE  
CONCRETE MONOLITHIC SLAB  
SCALE: NTS



**C** ASPHALT BASE ANCHORAGE  
(HP9 BARBED DRIVE ANCHOR)  
SCALE: NTS

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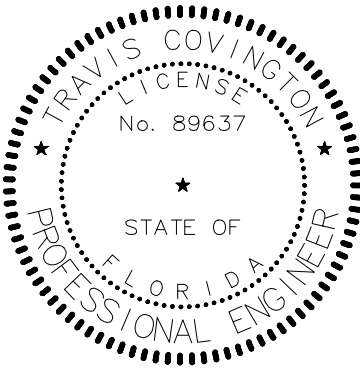
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| CLIENT:   | JUSTIN WILSON         |
| LOCATION: | 490 SW PRECISION LOOP |
| JOB NO:   | E077                  |

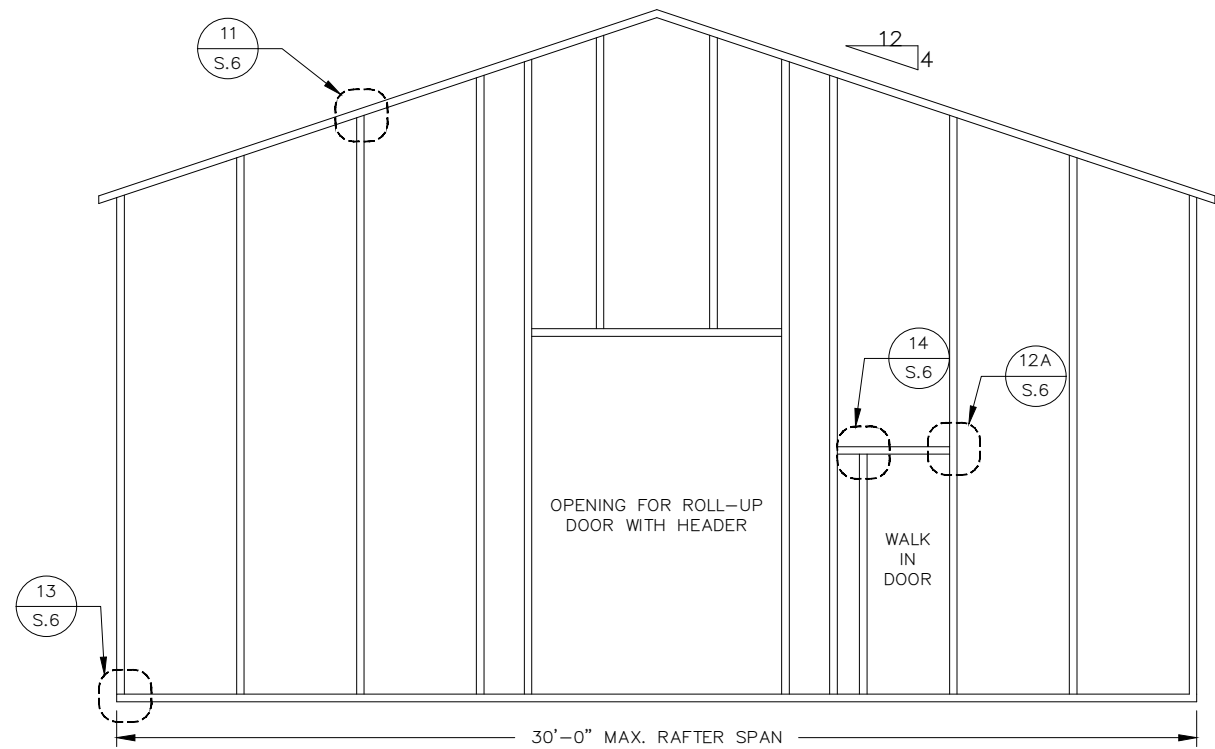
BASE RAIL & ANCHORAGE  
DETAILS

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| SCALE:   | SHEET NO: |
| AS NOTED | S.4       |

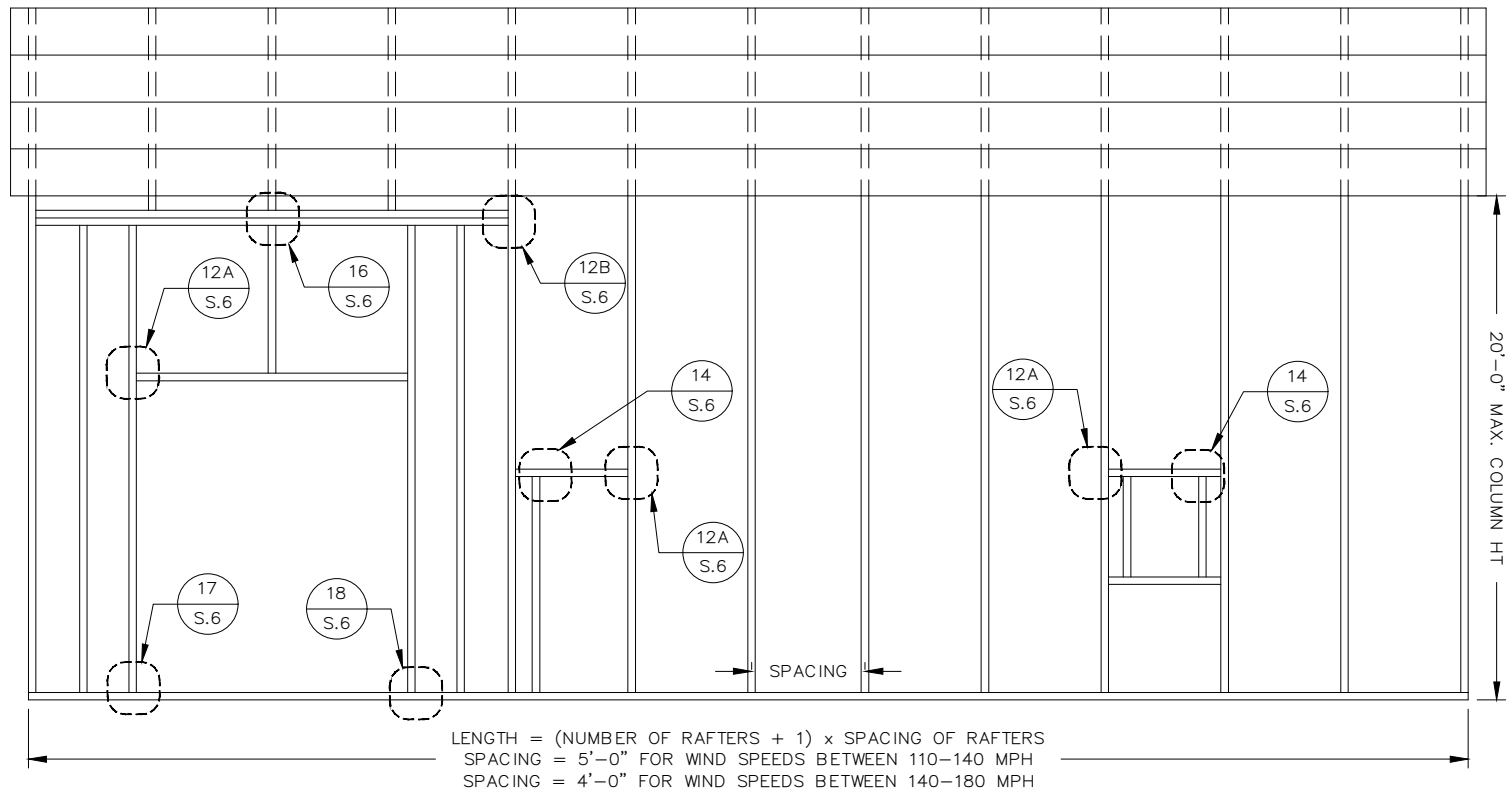
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TYPICAL BOX EAVE RAFTER END WALL FRAMING  
SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING  
SCALE: NTS

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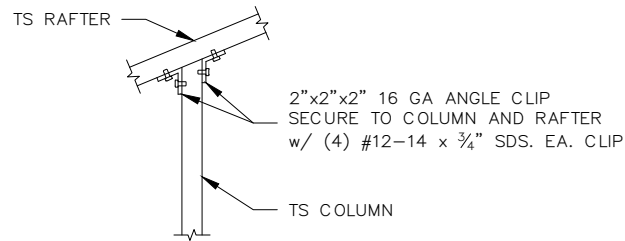
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| PROJECT:  | WILSON METAL BUILDING |
| CLIENT:   | JUSTIN WILSON         |
| LOCATION: | 490 SW PRECISION LOOP |
| JOB NO:   | E077                  |

| END WALL, SIDE WALL, & OPENING TYPICAL FRAMING |           |
|------------------------------------------------|-----------|
| SCALE:                                         | SHEET NO: |
| AS NOTED                                       | S.5       |

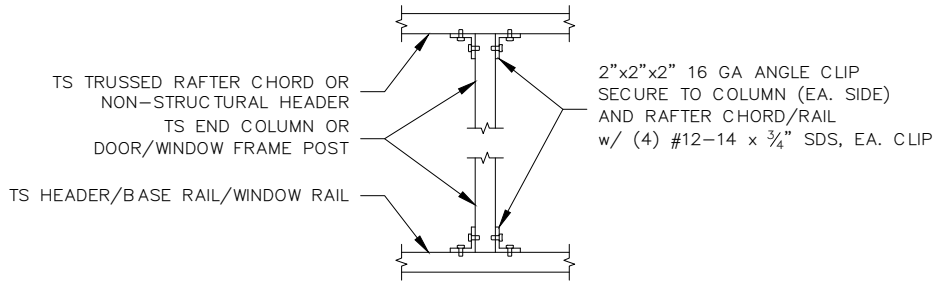
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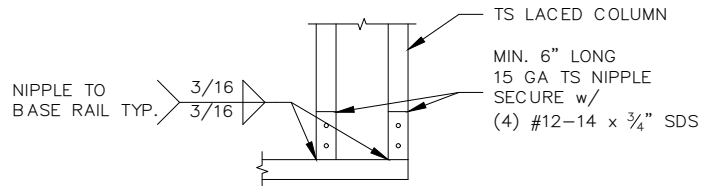
TRAVIS COVINGTON  
LICENSE  
No. 89637  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER



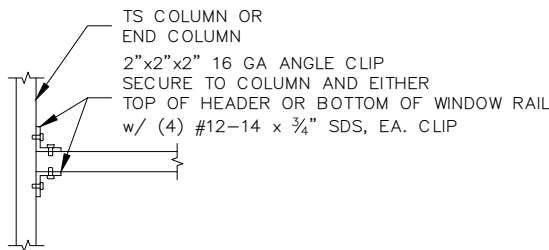
11 TYPICAL POST RAFTER CONNECTION  
END WALL FRAMING  
SCALE: NTS



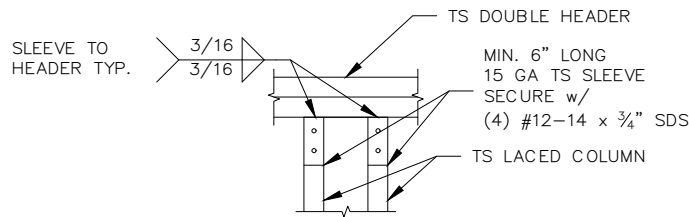
14 POST TO HEADER, BASE RAIL, OR WINDOW  
RAIL CONNECTION  
SCALE: NTS



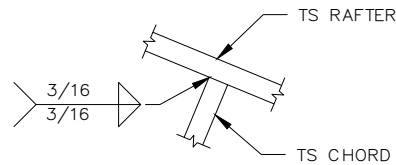
18 LACED COLUMN TO BASE RAIL CONNECTION  
SCALE: NTS



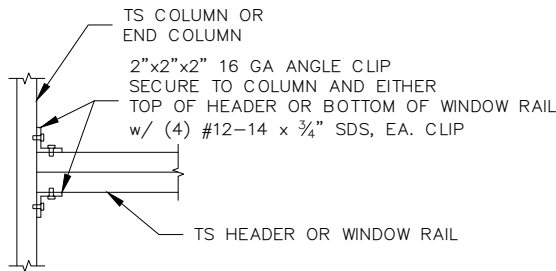
12A HEADER TO POST CONNECTION  
SCALE: NTS



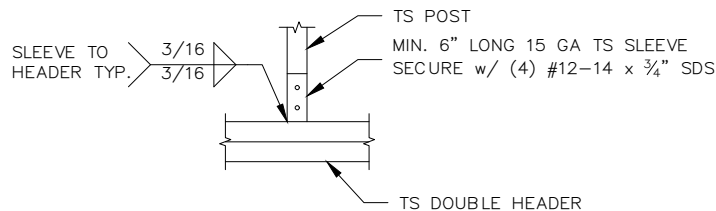
15 DOUBLE HEADER TO  
LACED COLUMN CONNECTION  
SCALE: NTS



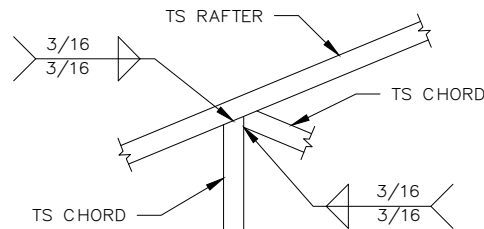
19 RAFTER TO CHORD CONNECTION  
SCALE: NTS



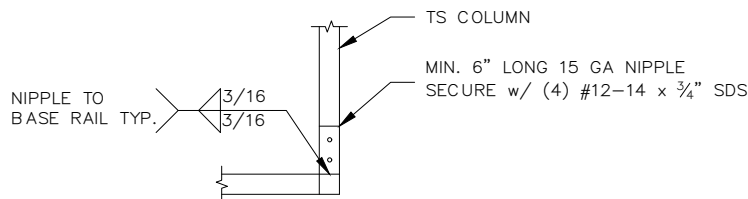
12B DOUBLE HEADER TO POST  
HORIZONTAL CONNECTION  
SCALE: NTS



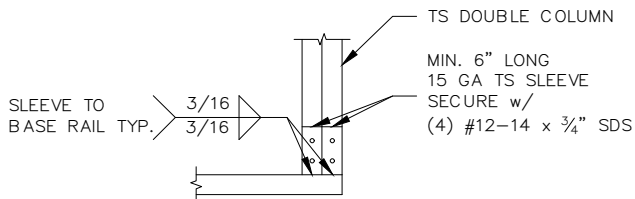
16 DOUBLE HEADER TO POST  
VERTICAL CONNECTION  
SCALE: NTS



20 RAFTER TO CHORD CONNECTION  
SCALE: NTS



13 POST/BASE RAIL CONNECTION  
END WALL FRAMING  
SCALE: NTS



17 DOUBLE COLUMN TO BASE RAIL CONNECTION  
SCALE: NTS

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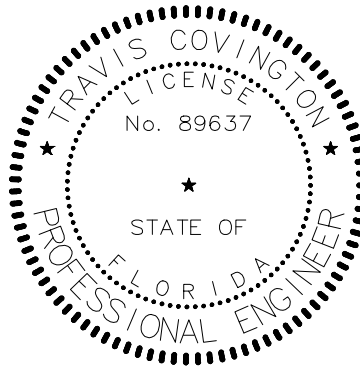
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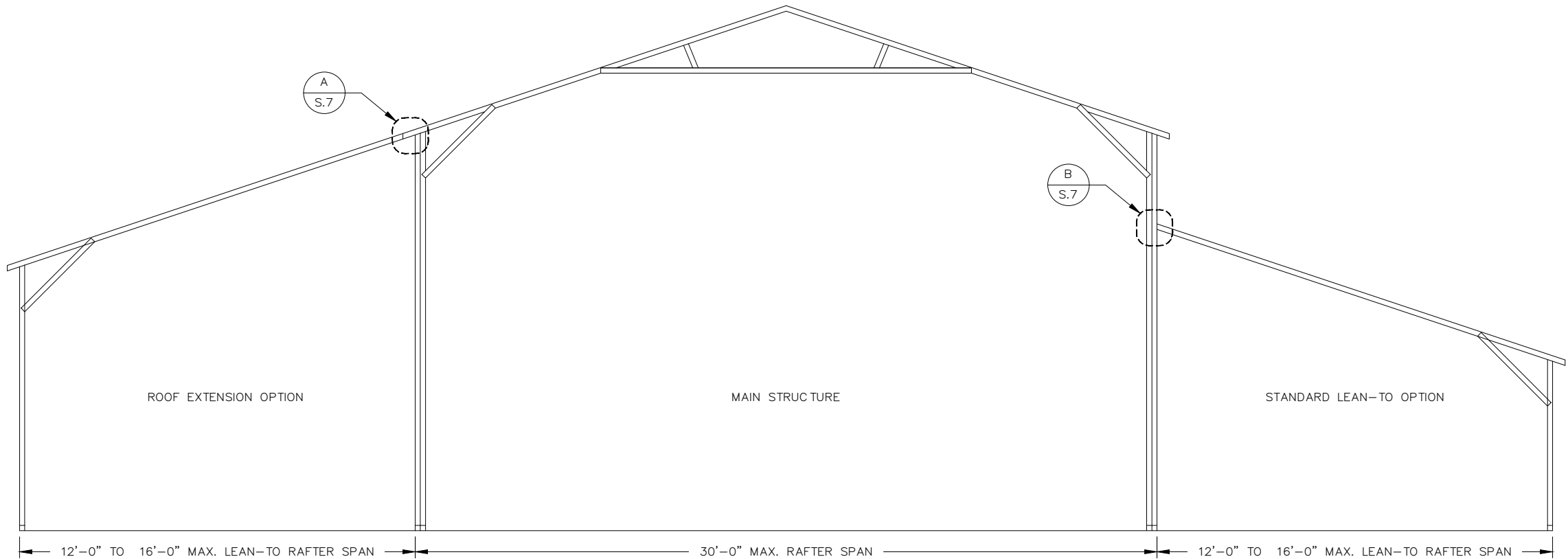
PROJECT: WILSON METAL BUILDING  
CLIENT: JUSTIN WILSON  
LOCATION: 490 SW PRECISION LOOP  
JOB NO: E077

CONNECTION DETAILS (2 OF 2)

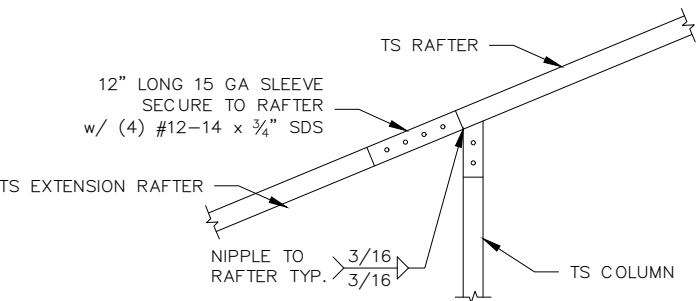
SCALE: AS NOTED  
SHEET NO: S.6

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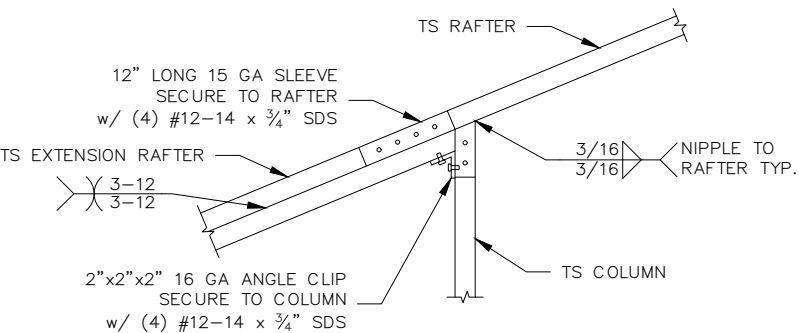




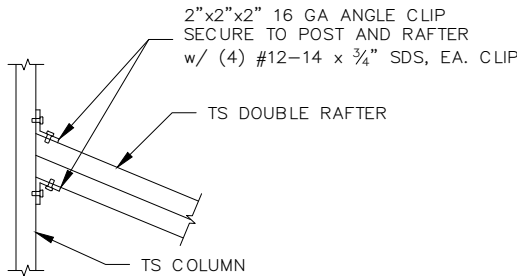
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS  
SCALE: NTS



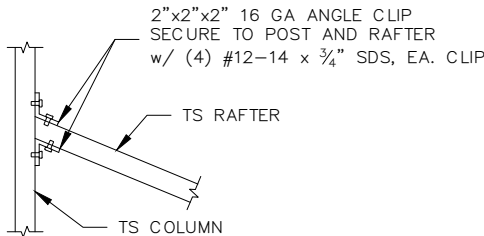
A1 SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN LESS THAN 12'-0"  
SCALE: NTS



A2 SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



B2 LEAN-TO RAFTER/COLUMN CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



B1 LEAN-TO RAFTER/COLUMN CONNECTION  
RAFTER SPAN LESS THAN 12'-0"  
SCALE: NTS

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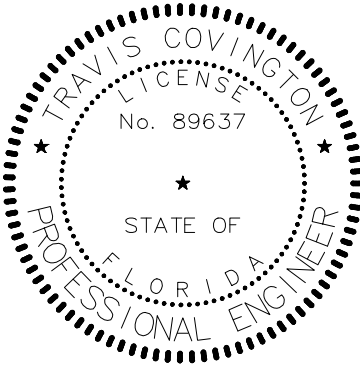
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| PROJECT:  | WILSON METAL BUILDING |
| CLIENT:   | JUSTIN WILSON         |
| LOCATION: | 490 SW PRECISION LOOP |
| JOB NO:   | E077                  |

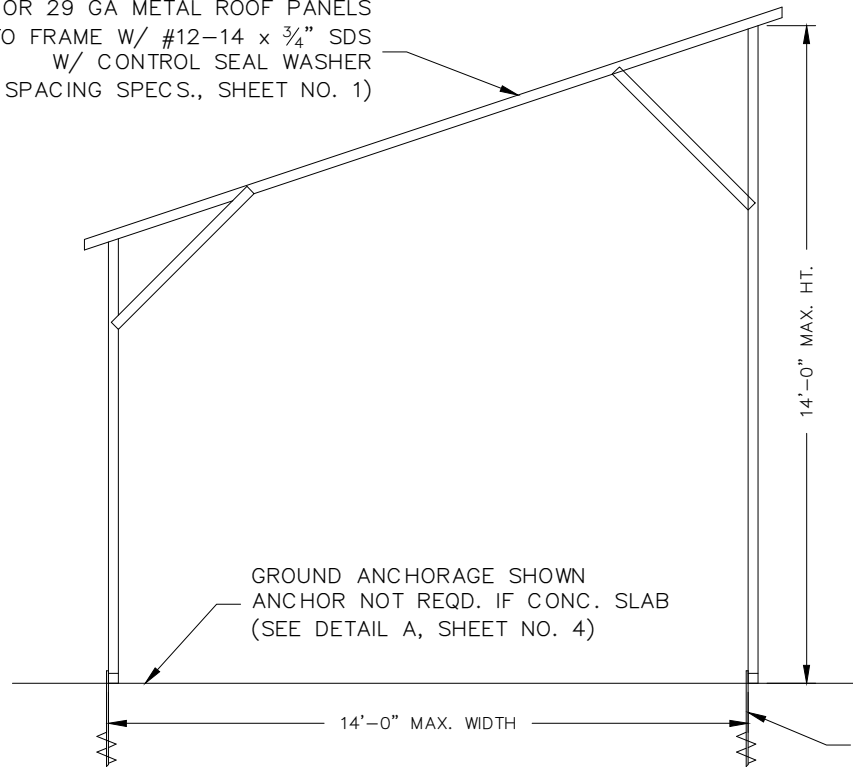
BOX EAVE LEAN-TO OPTIONS

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| SCALE:   | SHEET NO: |
| AS NOTED | S.7       |

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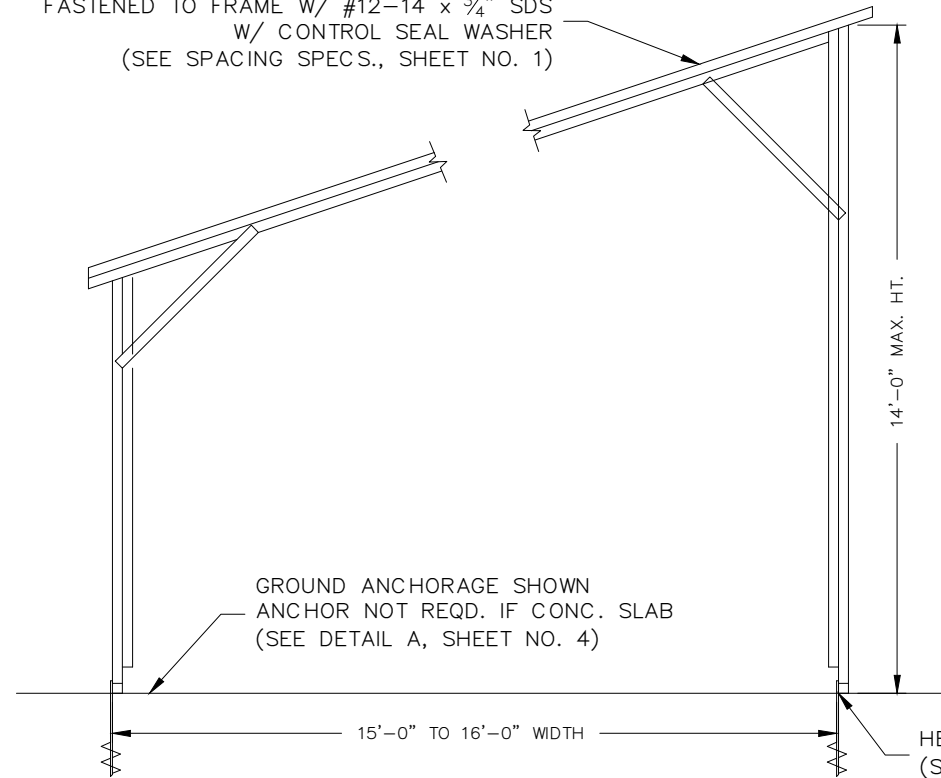
26 OR 29 GA METAL ROOF PANELS  
FASTENED TO FRAME W/ #12-14 x 3/4" SDS  
W/ CONTROL SEAL WASHER  
(SEE SPACING SPECS., SHEET NO. 1)



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

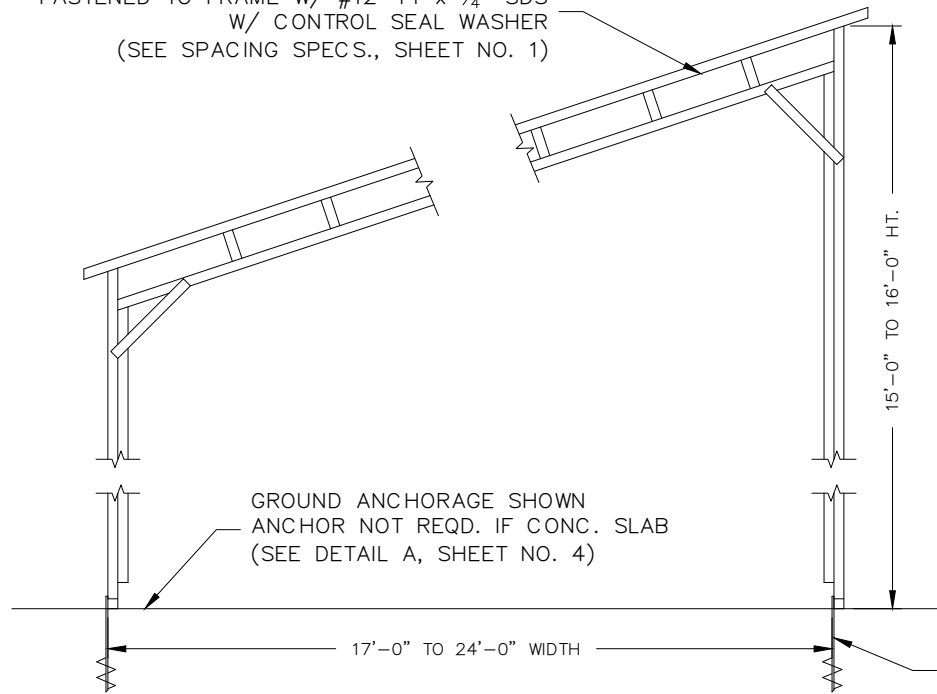
OPTIONAL SLOPES:  
1:12  
2:12  
3:12

26 OR 29 GA METAL ROOF PANELS  
FASTENED TO FRAME W/ #12-14 x 3/4" SDS  
W/ CONTROL SEAL WASHER  
(SEE SPACING SPECS., SHEET NO. 1)



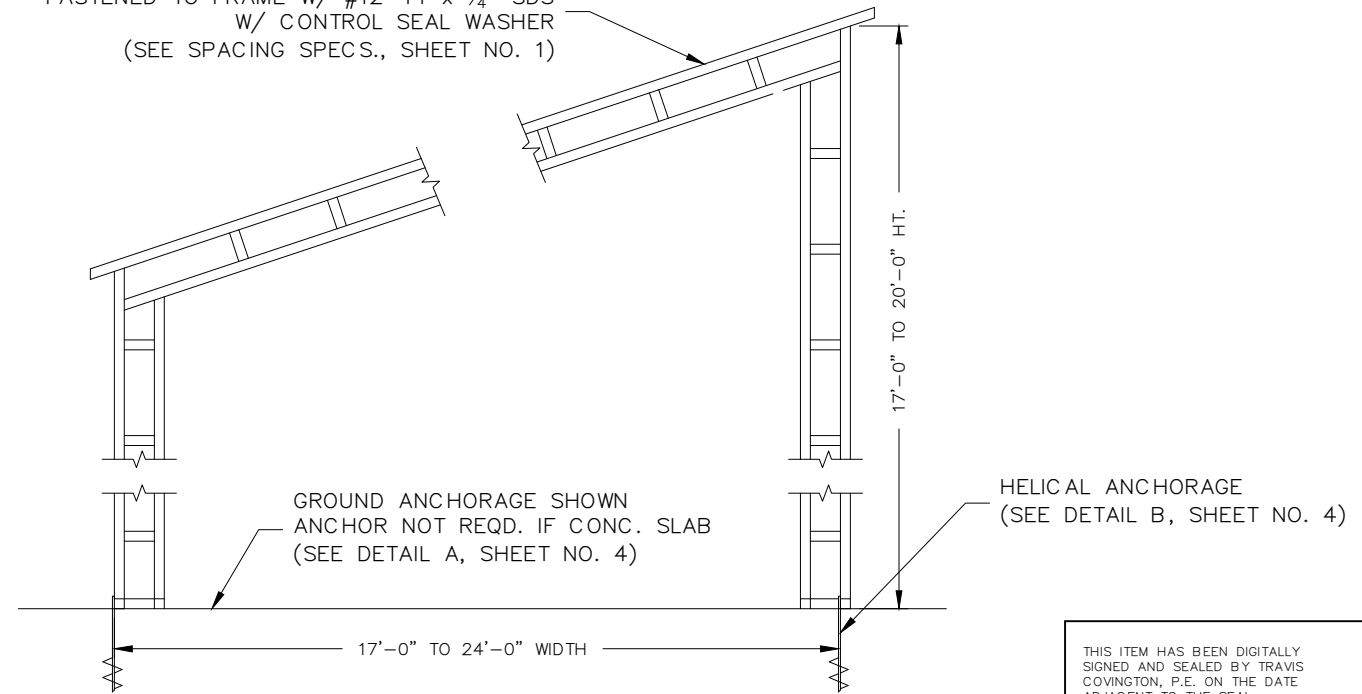
FREESTANDING LEAN-TO: 15FT TO 16FT WIDTH  
SCALE: NTS

26 OR 29 GA METAL ROOF PANELS  
FASTENED TO FRAME W/ #12-14 x 3/4" SDS  
W/ CONTROL SEAL WASHER  
(SEE SPACING SPECS., SHEET NO. 1)



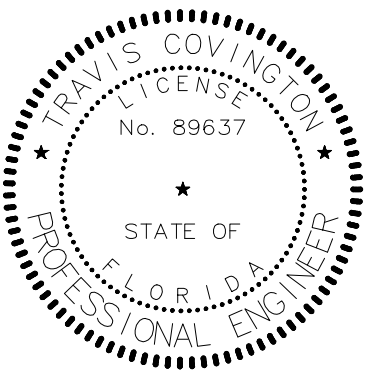
FREESTANDING LEAN-TO: 17FT TO 24FT WIDTH  
SCALE: NTS

26 OR 29 GA METAL ROOF PANELS  
FASTENED TO FRAME W/ #12-14 x 3/4" SDS  
W/ CONTROL SEAL WASHER  
(SEE SPACING SPECS., SHEET NO. 1)



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

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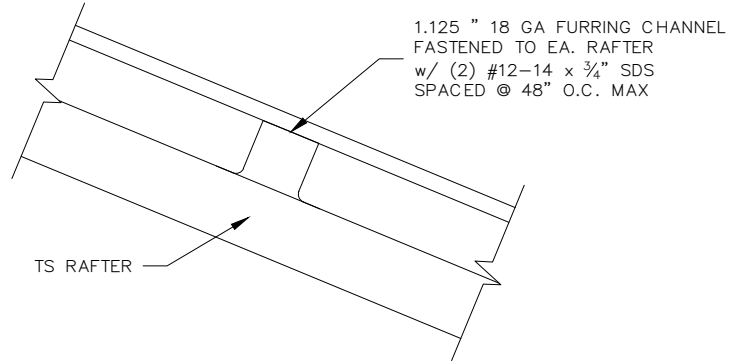
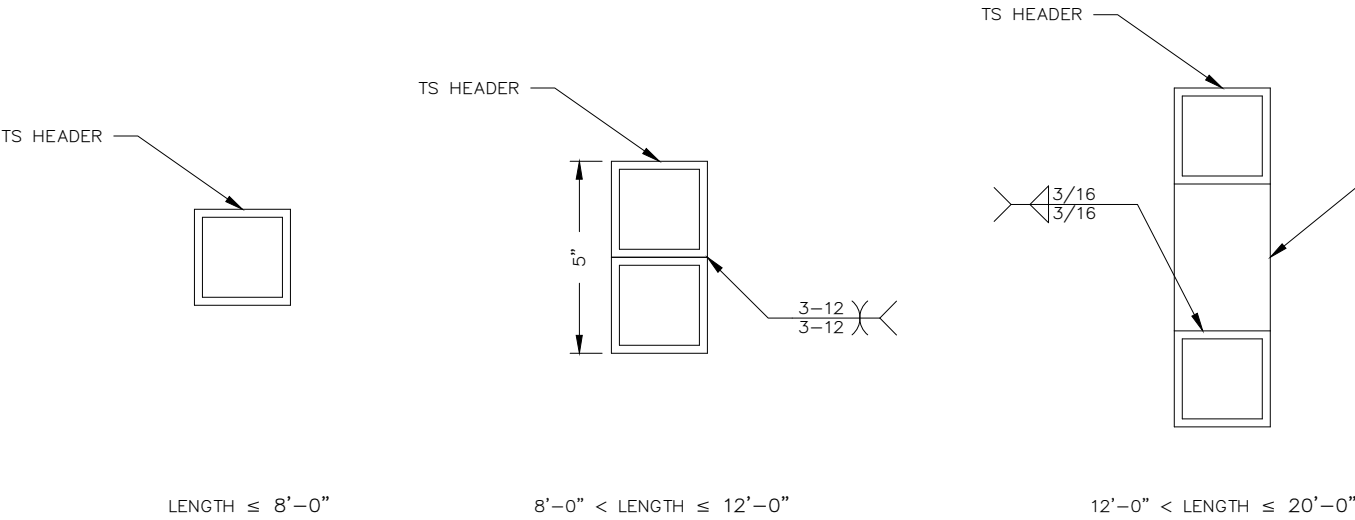
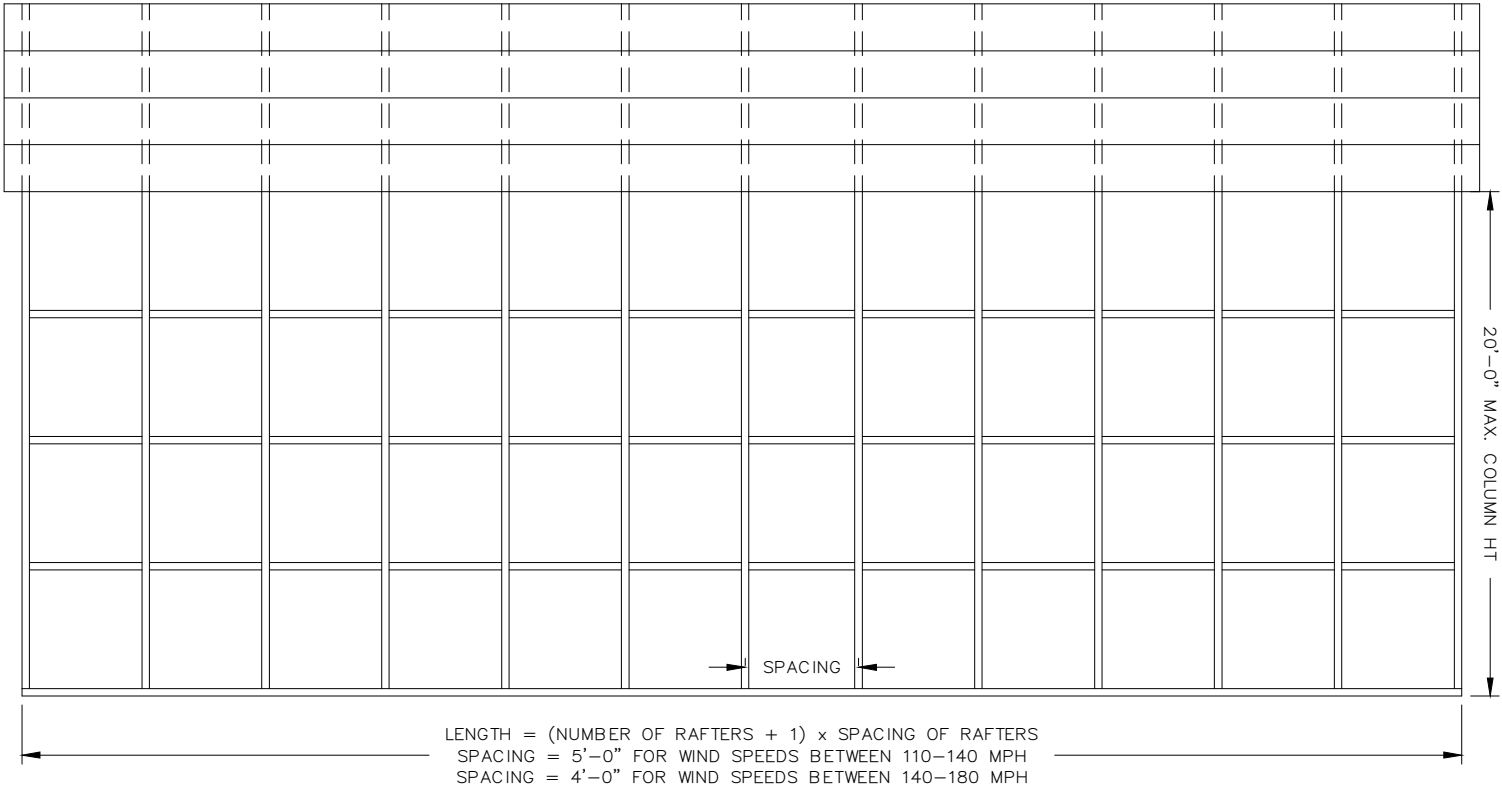


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| PROJECT:  | WILSON METAL BUILDING |
| CLIENT:   | JUSTIN WILSON         |
| LOCATION: | 490 SW PRECISION LOOP |
| JOB NO:   | E077                  |

| FREESTANDING LEAN-TO<br>OPTIONS |                  |
|---------------------------------|------------------|
| SCALE:<br>AS NOTED              | SHEET NO:<br>S.8 |



VERTICAL ROOF PANEL ATTACHMENT  
SCALE: NTS

OPTIONAL SIDE WALL HEADERS  
SCALE: NTS

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|-----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-----------------------------|-----------|
| NO.       | DESCRIPTION | DATE |                                                                                                                          | CLIENT:   | JUSTIN WILSON         |                             |           |
|           |             |      |                                                                                                                          | LOCATION: | 490 SW PRECISION LOOP | SCALE:                      | SHEET NO: |
|           |             |      |                                                                                                                          | JOB NO:   | E077                  | AS NOTED                    | S.9       |
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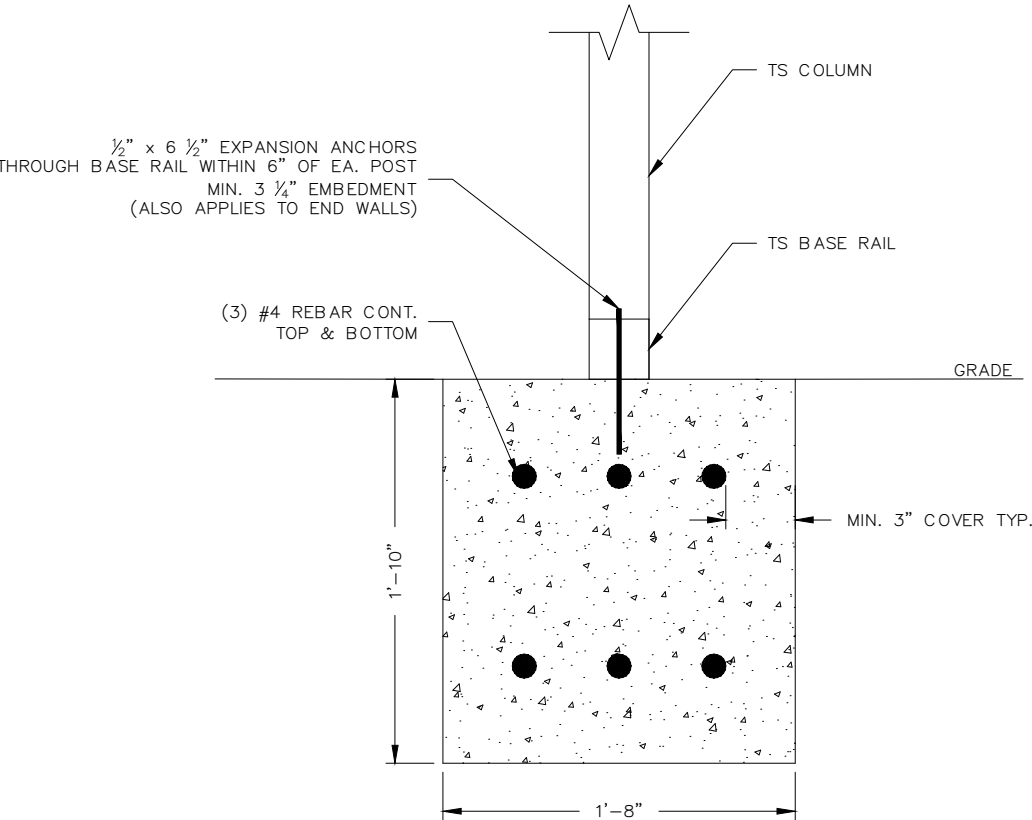
PROFESSIONAL ENGINEER

GENERAL NOTES

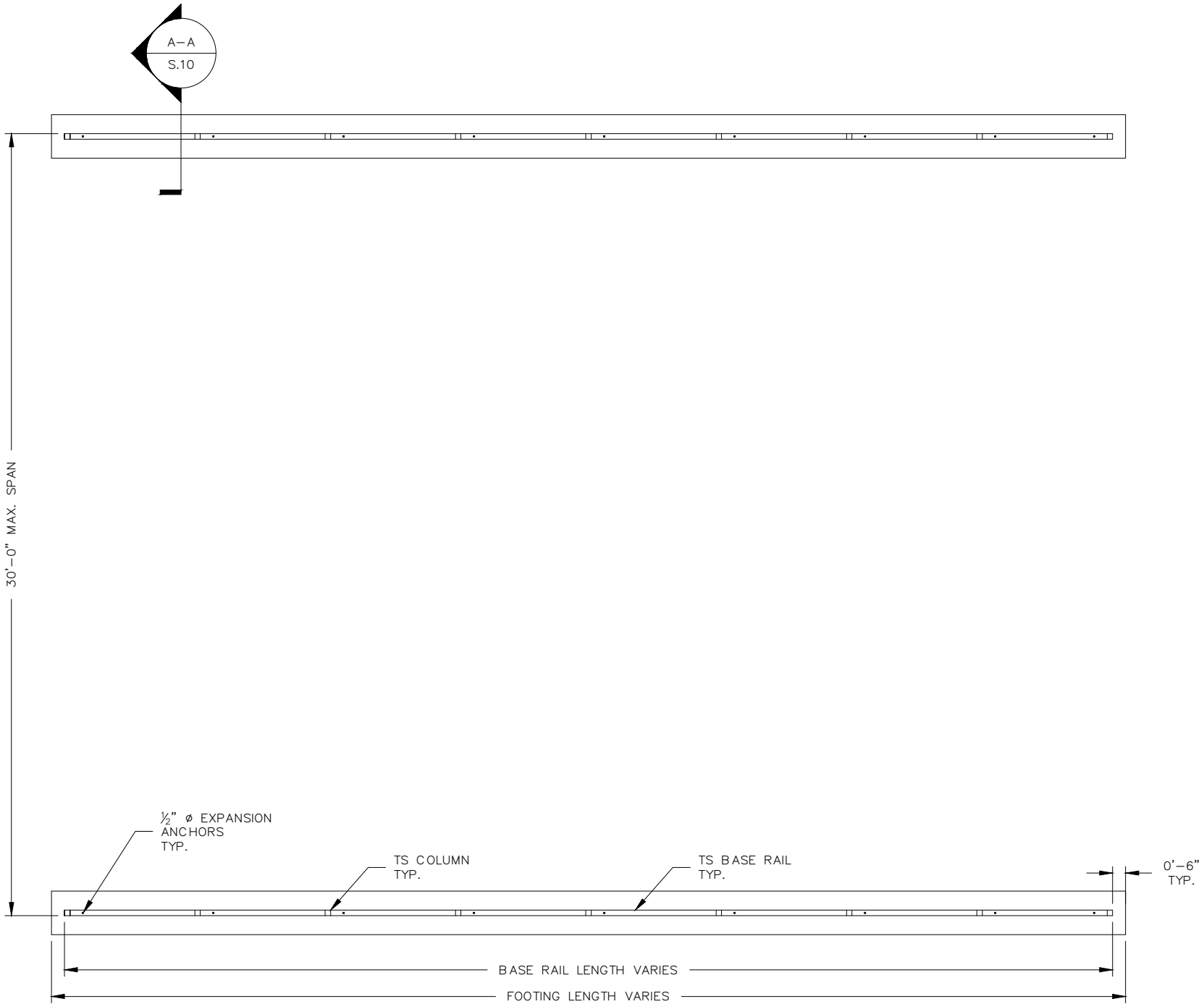
- 1. MINIMUM SOIL BEARING CAPACITY: 1500 PSF
- 2. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL NOTES

- 1. REBAR SHALL BE ASTM A615 GRADE 60
- 2. SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 3. CONCRETE COVER SHALL BE 3" WHERE CONCRETE IS EXPOSED TO SOIL OR WATER; 2" EVERYWHERE ELSE
- 4. REBAR SHALL BE BENT WITHOUT HEATING; MINIMUM BEND LENGTH = 6 x BAR DIAMETER
- 5. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT



A-A CONCRETE STIRP FOOTING DETAIL  
SCALE: NTS



CONCRETE STRIP FOOTING PLAN  
SCALE: NTS

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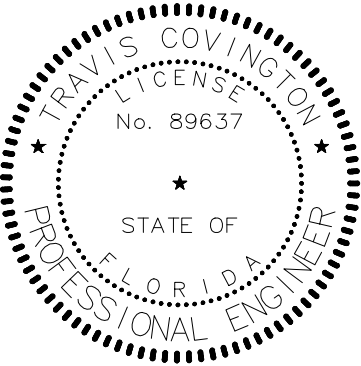
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| PROJECT:  | WILSON METAL BUILDING |
| CLIENT:   | JUSTIN WILSON         |
| LOCATION: | 490 SW PRECISION LOOP |
| JOB NO:   | E077                  |

OPTIONAL CONCRETE STRIP  
FOOTING

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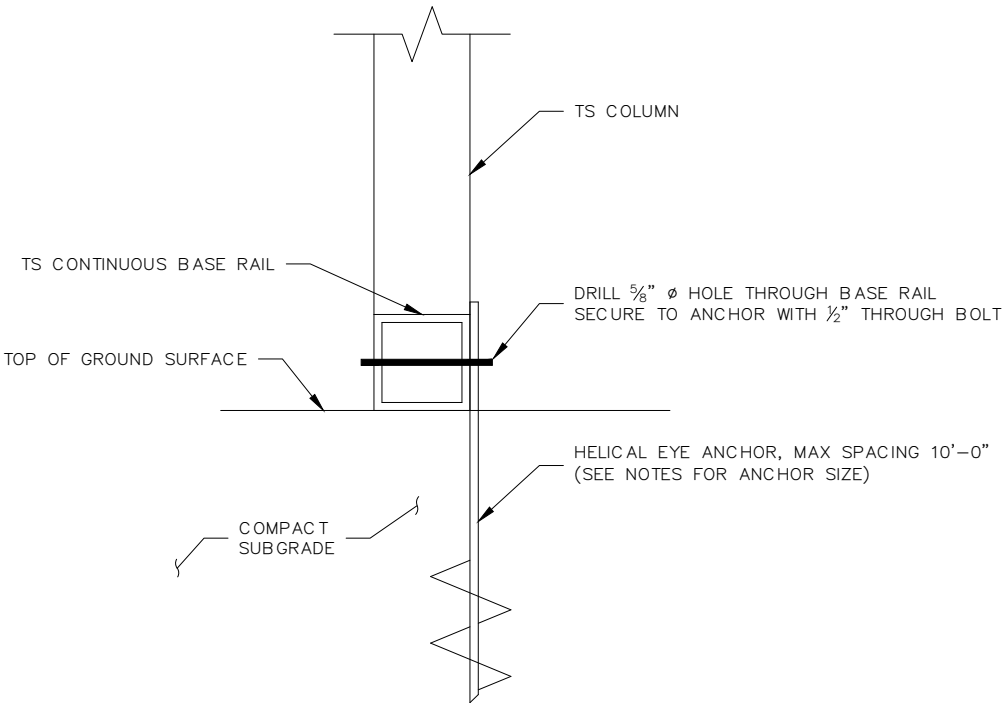
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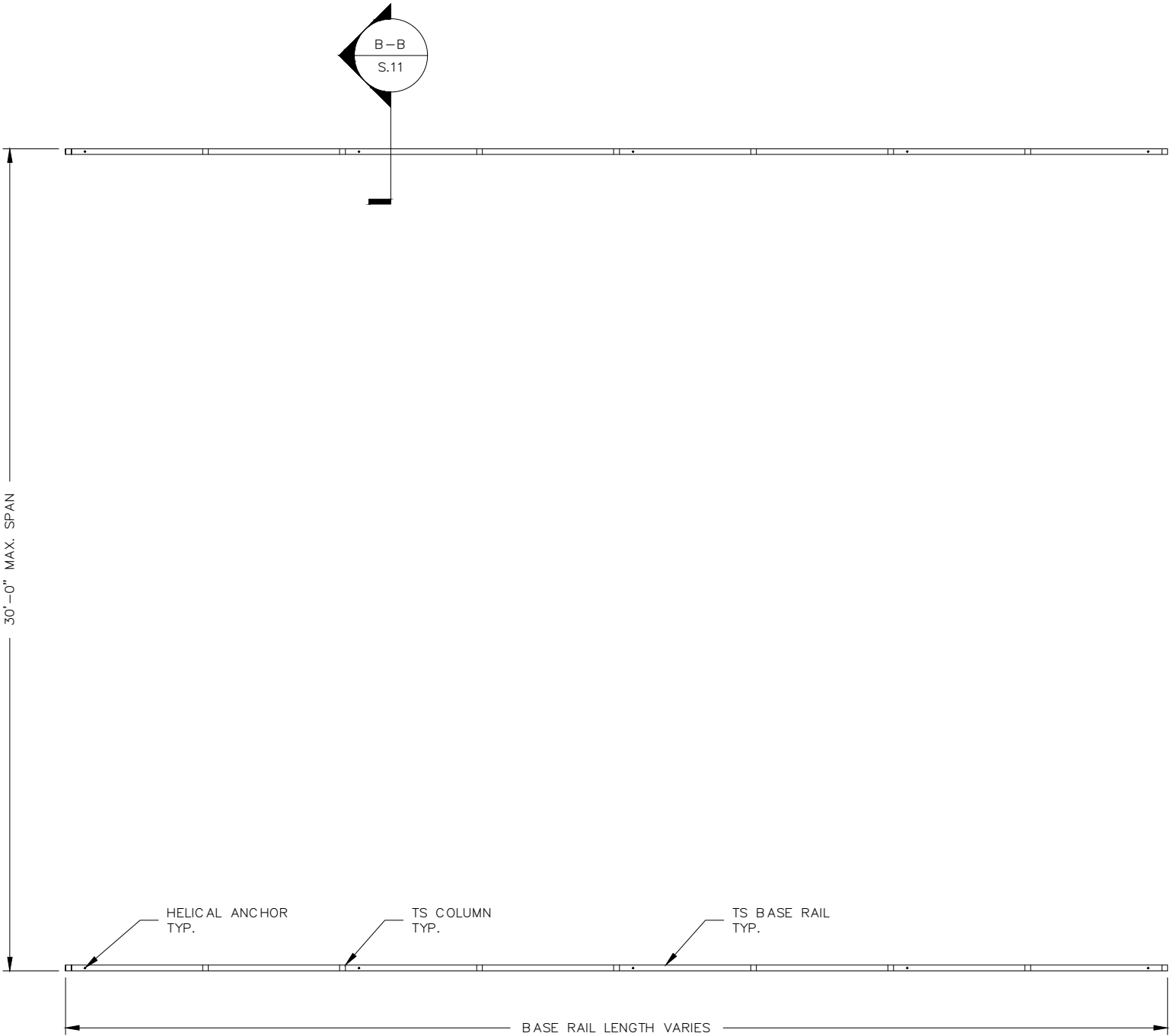


HELICAL ANCHOR NOTES

1. MINIMUM OF (2) 4" HELICES WITH 30" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY DENSE AND OR/OR CEMENTED SOILS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILT AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, AND VERY STIFF SILTS AND CLAYS
2. MINIMUM OF (2) 6" HELICES WITH 48" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, AND ALLUVIAL FILL
3. MINIMUM OF (2) 8" HELICES WITH 60" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY LOOSE TO MEDIUM DENSE SANDS AND FIRM TO STIFFER CLAYS AND SILTS



**B-B** HELICAL ANCHORAGE DETAIL  
SCALE: NTS



HELICAL ANCHORAGE PLAN  
SCALE: NTS

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| CLIENT:   | JUSTIN WILSON         |
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| OPTIONAL HELICAL ANCHORAGE |           |
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