FREE STANDING LEAN TO
24FT WIDE x 35FT LONG x 10/12FT EAVE HT.

APPLICABLE CODES AND STANDARDS

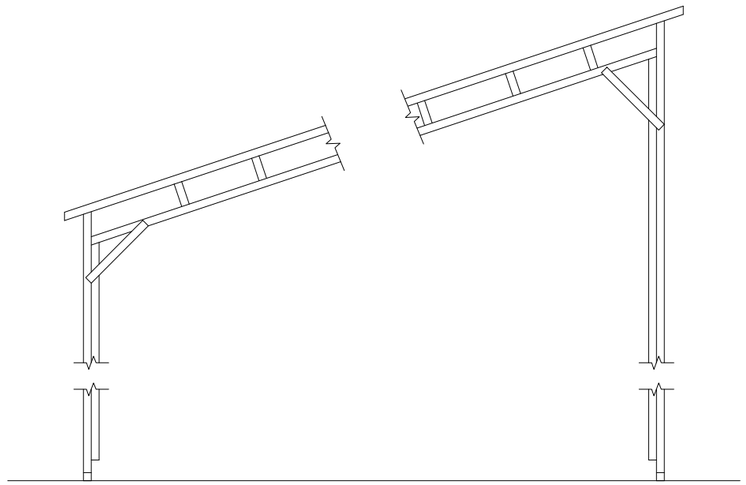
1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
2. 2021 INTERNATIONAL BUILDING CODE
3. ASCE 7–16: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
5. ACI 318–14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. TMS 402–16: BUILDING CODE REQUIREMENTS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



TYPICAL ELEVATION: FRESTANDING LEAN–TO
SCALE: NTS

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 BOW 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.

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	CTP	CTP
WALK–IN DOOR	CTP	CTP

DRAWING INDEX

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Digitally signed by Travis L Covington
DN: CN=Travis L Covington, dnQualifier=A01410C000001867407DE200082C0, O=Florida, C=US
Date: 2025.06.09 09:28:17-04'00'

TRAVIS COVINGTON
LICENSE
No. 89637
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

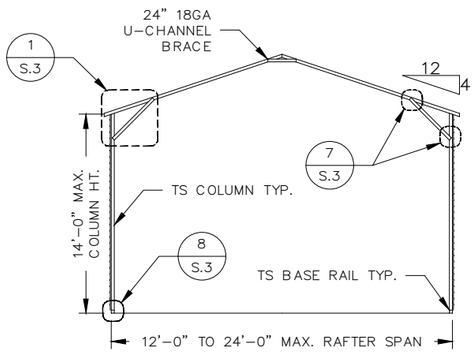
REVISIONS		
NO.	DESCRIPTION	DATE

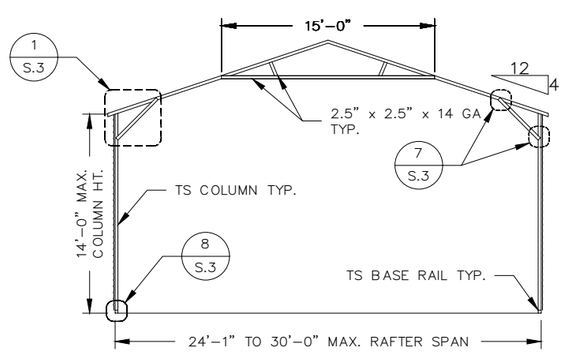
COVINGTON ENGINEERING SERVICES
272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

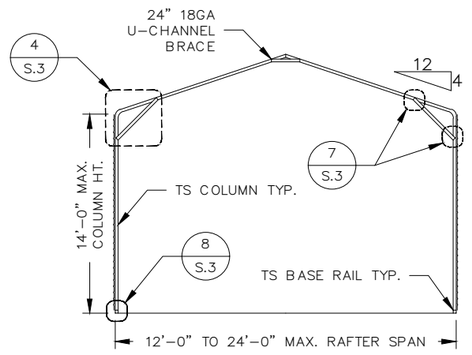
PROJECT:	VAN HOY LEAN TO
CLIENT:	ELLEN VAN HOY
LOCATION:	226 SE MAYHALL TER, LAKE CITY, FL
JOB NO:	E092

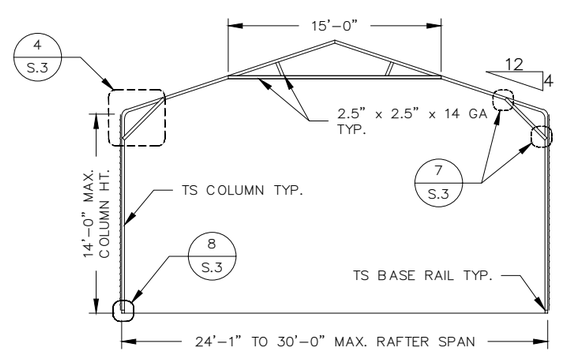
GENERAL NOTES & SPECIFICATIONS

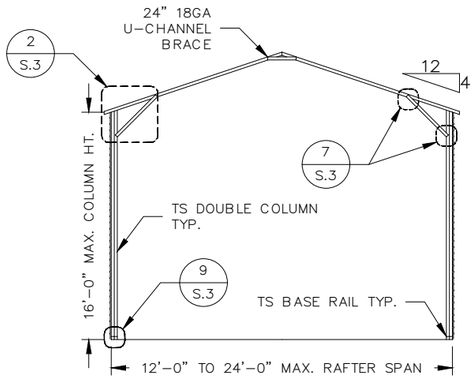
SCALE:	SHEET NO:
AS NOTED	S.1

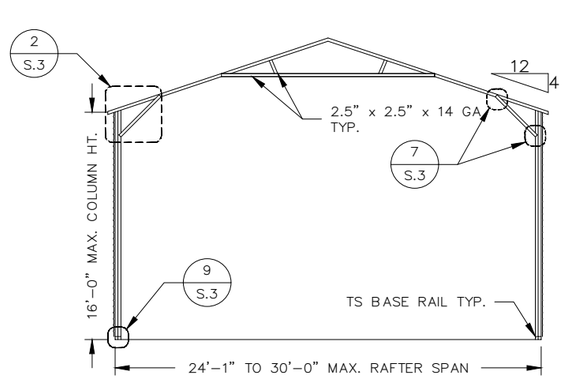


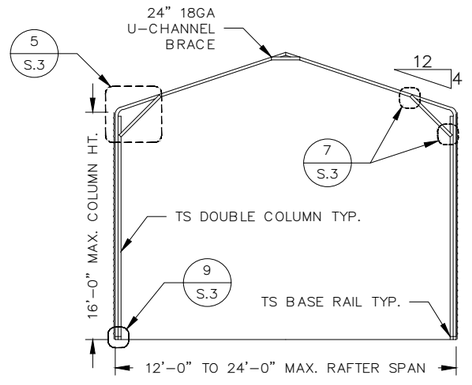


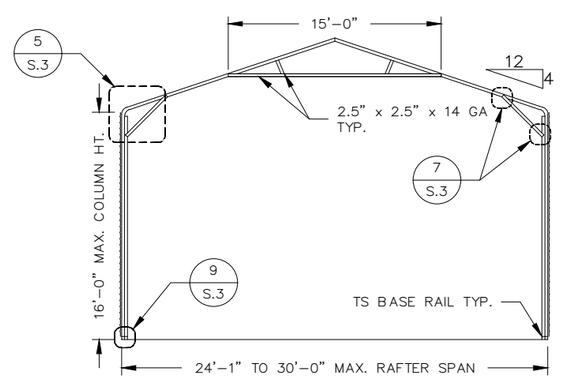


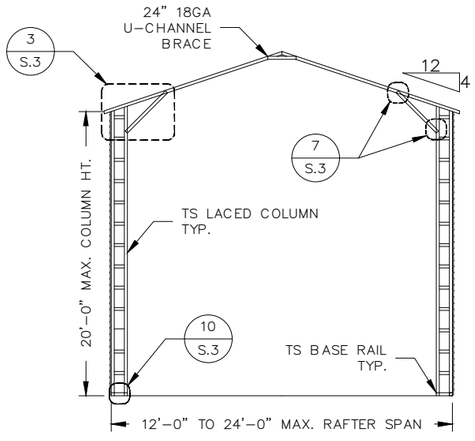


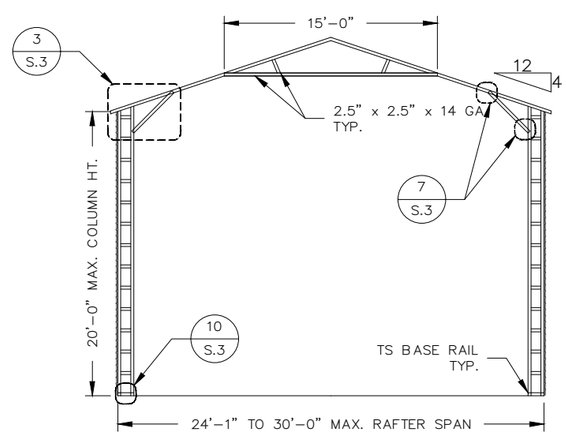


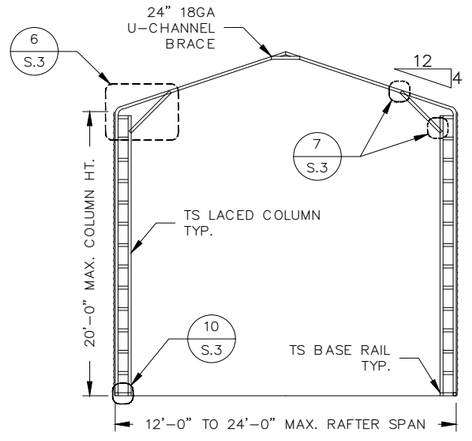


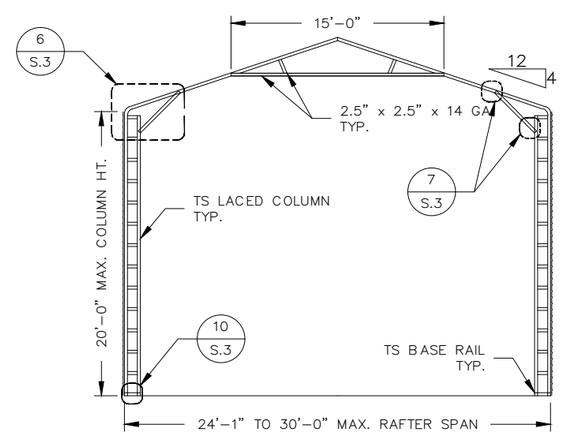












BOX EAVE FRAMING
SCALE: NTS

BOW EAVE FRAMING
SCALE: NTS

REVISIONS		
NO.	DESCRIPTION	DATE

COVINGTON ENGINEERING SERVICES
272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

PROJECT:	VAN HOY LEAN TO
CLIENT:	ELLEN VAN HOY
LOCATION:	226 SE MAYHALL TER, LAKE CITY, FL
JOB NO:	E092

BOX/BOW EAVE TYPICAL FRAMING SECTIONS

SCALE:	SHEET NO:
AS NOTED	S.2

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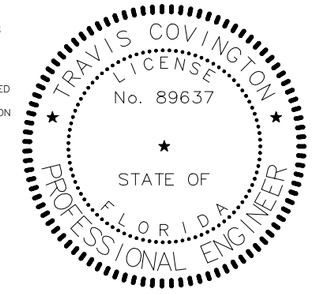
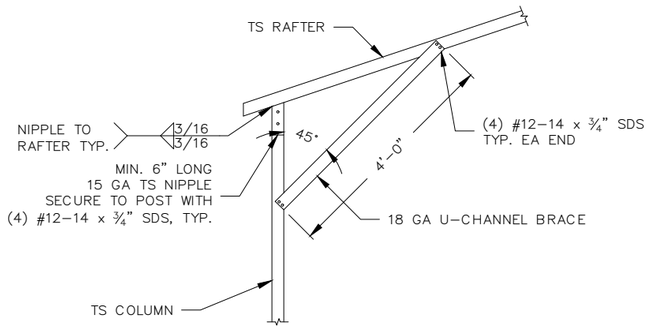
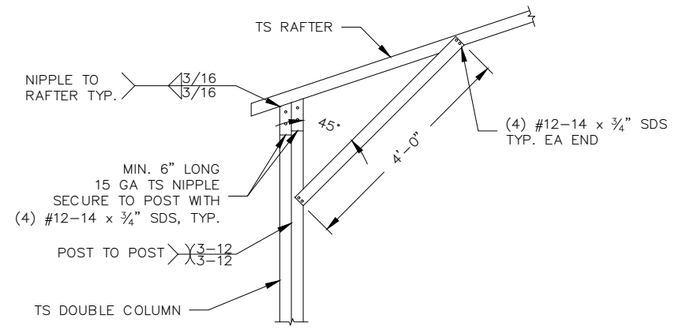
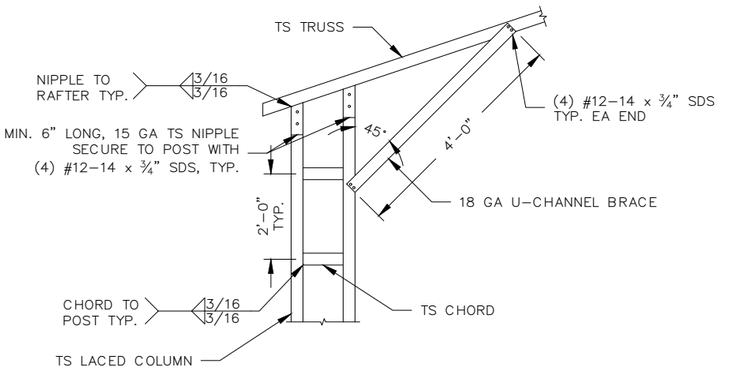




1 BOX EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, 14' EAVE HT
SCALE: NTS



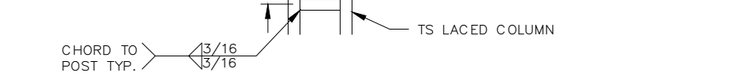
2 BOX EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, 16' EAVE HT
SCALE: NTS



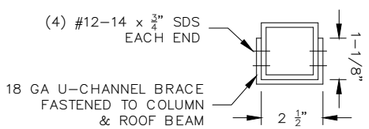
3 BOX EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, 20' EAVE HT
SCALE: NTS

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

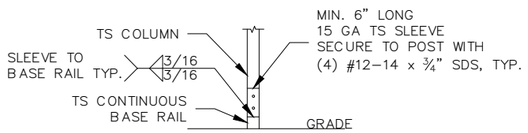
5 BOW EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, 16' EAVE HT
SCALE: NTS



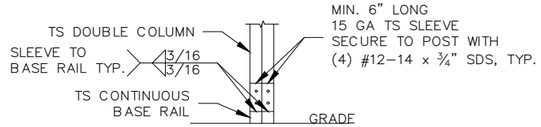
6 BOW EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, 20' EAVE HT
SCALE: NTS



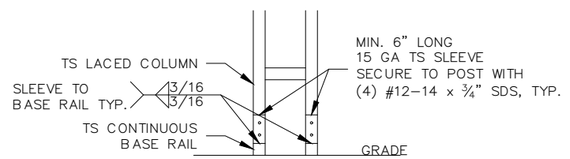
7 BRACE CONNECTION DETAIL
SCALE: NTS



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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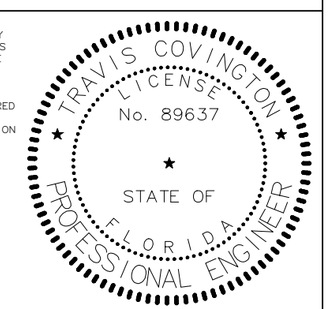


REVISIONS		
NO.	DESCRIPTION	DATE

COVINGTON ENGINEERING SERVICES
272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

PROJECT:	VAN HOY LEAN TO
CLIENT:	ELLEN VAN HOY
LOCATION:	226 SE MAYHALL TER, LAKE CITY, FL
JOB NO:	E092

CONNECTION DETAILS (1 OF 2)

SCALE:	SHEET NO:
AS NOTED	S.3

GENERAL NOTES

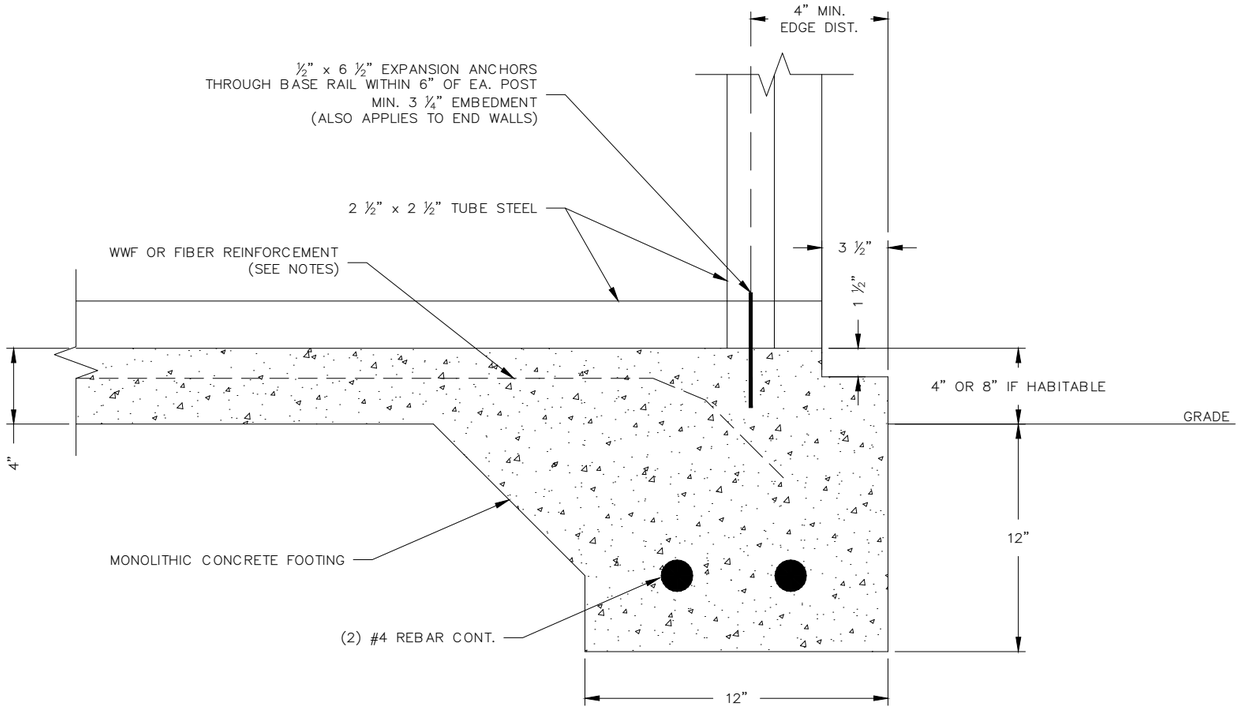
1. MINIMUM SOIL BEARING CAPACITY: 1500 PSF
2. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL NOTES

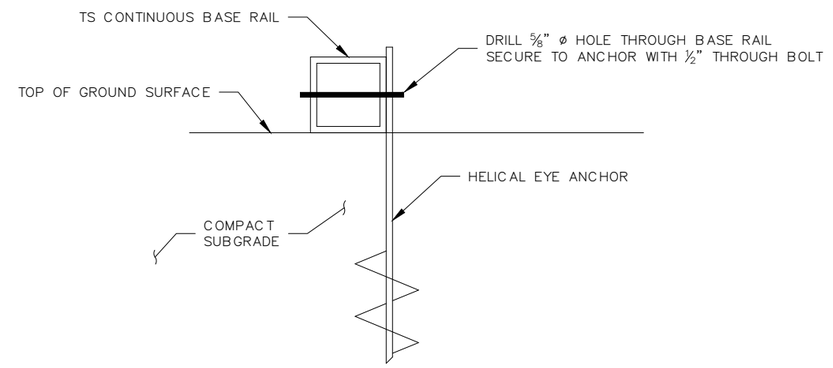
1. REBAR SHALL BE ASTM A615 GRADE 60
2. SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. CONCRETE COVER SHALL BE 3" WHERE CONCRETE IS EXPOSED TO SOIL OR WATER; 2" EVERYWHERE ELSE
4. REBAR SHALL BE BENT WITHOUT HEATING; MINIMUM BEND LENGTH = 6 x BAR DIAMETER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

HELICAL ANCHOR NOTES

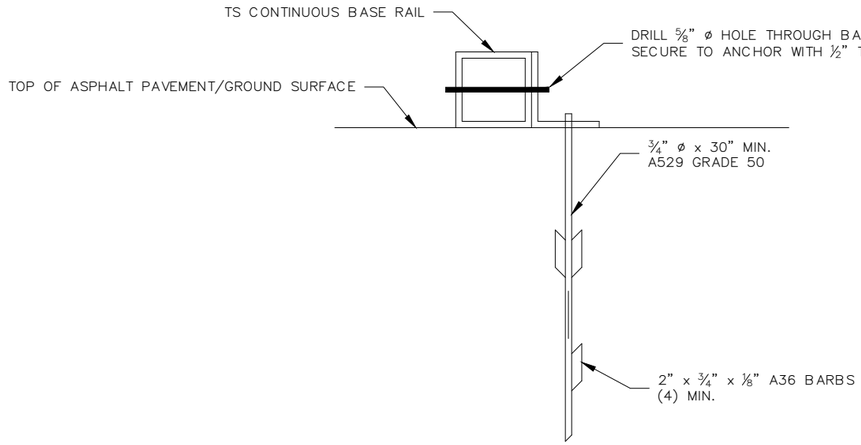
1. MINIMUM OF (2) 4" HELICES WITH 30" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY DENSE AND OR/OR CEMENTED SOILS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILT AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, AND VERY STIFF SILTS AND CLAYS
2. MINIMUM OF (2) 6" HELICES WITH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



A BASE RAIL ANCHORAGE
CONCRETE MONOLITHIC SLAB
SCALE: NTS



B GROUND BASE HELICAL ANCHORAGE
SCALE: NTS



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

REVISIONS

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272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

PROJECT:	VAN HOY LEAN TO
CLIENT:	ELLEN VAN HOY
LOCATION:	226 SE MAYHALL TER, LAKE CITY, FL
JOB NO:	E092

BASE RAIL & ANCHORAGE DETAILS

SCALE:	SHEET NO:
AS NOTED	S.4

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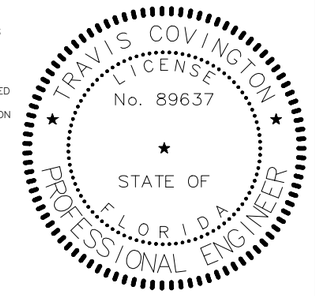
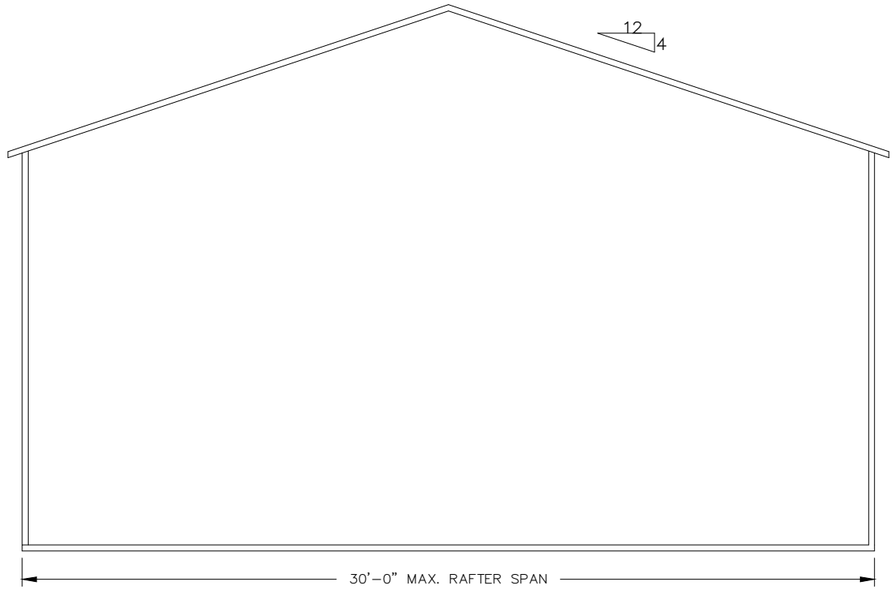
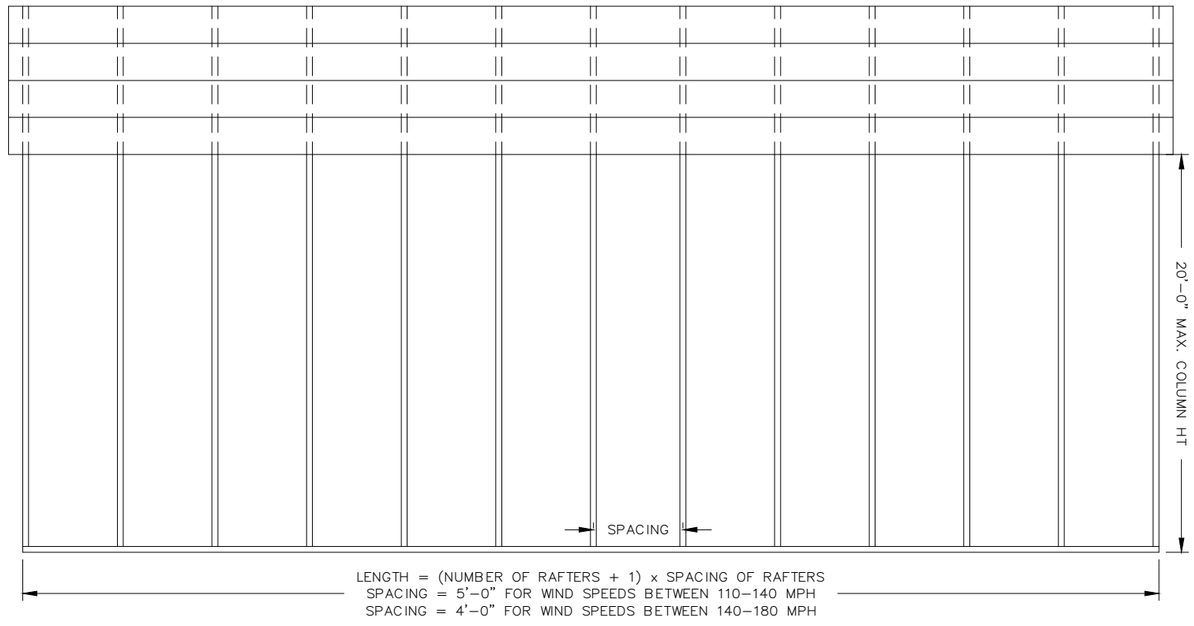




TYPICAL BOX EAVE RAFTER END WALL FRAMING

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING

SCALE: NTS

REVISIONS		
NO.	DESCRIPTION	DATE

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813.770.9470
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PROJECT:	VAN HOY LEAN TO
CLIENT:	ELLEN VAN HOY
LOCATION:	226 SE MAYHALL TER, LAKE CITY, FL
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END WALL, SIDE WALL, & OPENING TYPICAL FRAMING

SCALE:	SHEET NO:
AS NOTED	S.5

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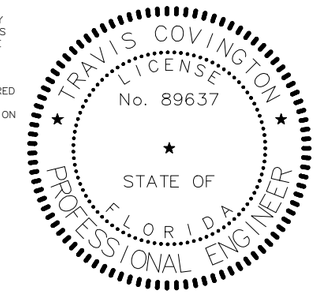
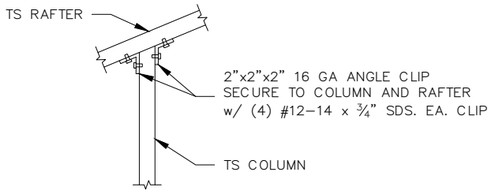
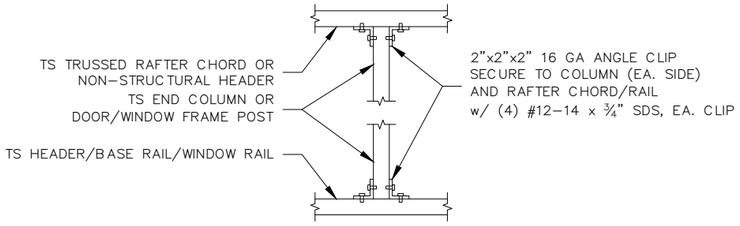
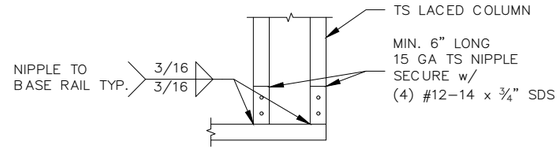




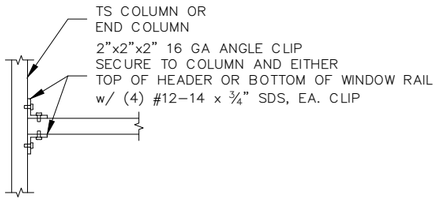
11 TYPICAL POST RAFTER CONNECTION
END WALL FRAMING
SCALE: NTS



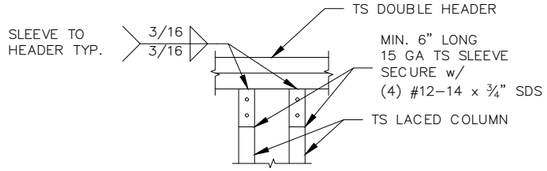
14 POST TO HEADER, BASE RAIL, OR WINDOW
RAIL CONNECTION
SCALE: NTS



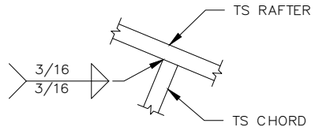
18 LACED COLUMN TO BASE RAIL CONNECTION
SCALE: NTS



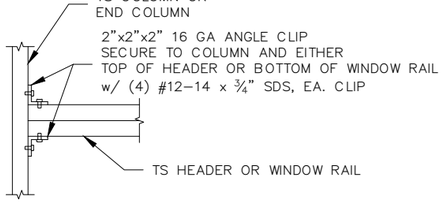
12A HEADER TO POST CONNECTION
SCALE: NTS



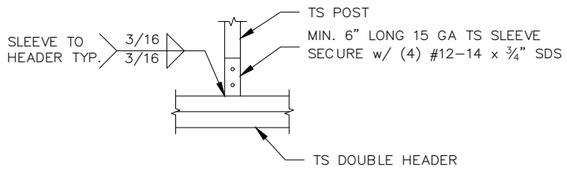
15 DOUBLE HEADER TO
LACED COLUMN CONNECTION
SCALE: NTS



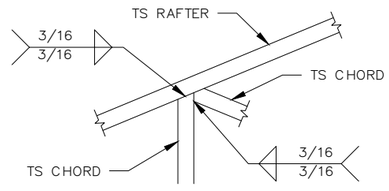
19 RAFTER TO CHORD CONNECTION
SCALE: NTS



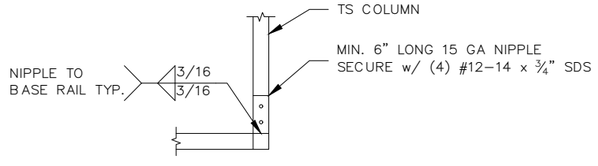
12B DOUBLE HEADER TO POST
HORIZONTAL CONNECTION
SCALE: NTS



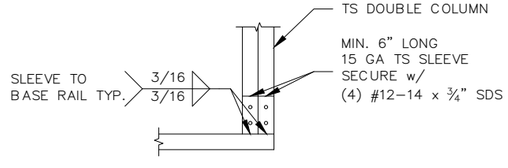
16 DOUBLE HEADER TO POST
VERTICAL CONNECTION
SCALE: NTS



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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TRAVIS COVINGTON
LICENSE
No. 89637
STATE OF
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PROFESSIONAL ENGINEER

REVISIONS

NO.	DESCRIPTION	DATE

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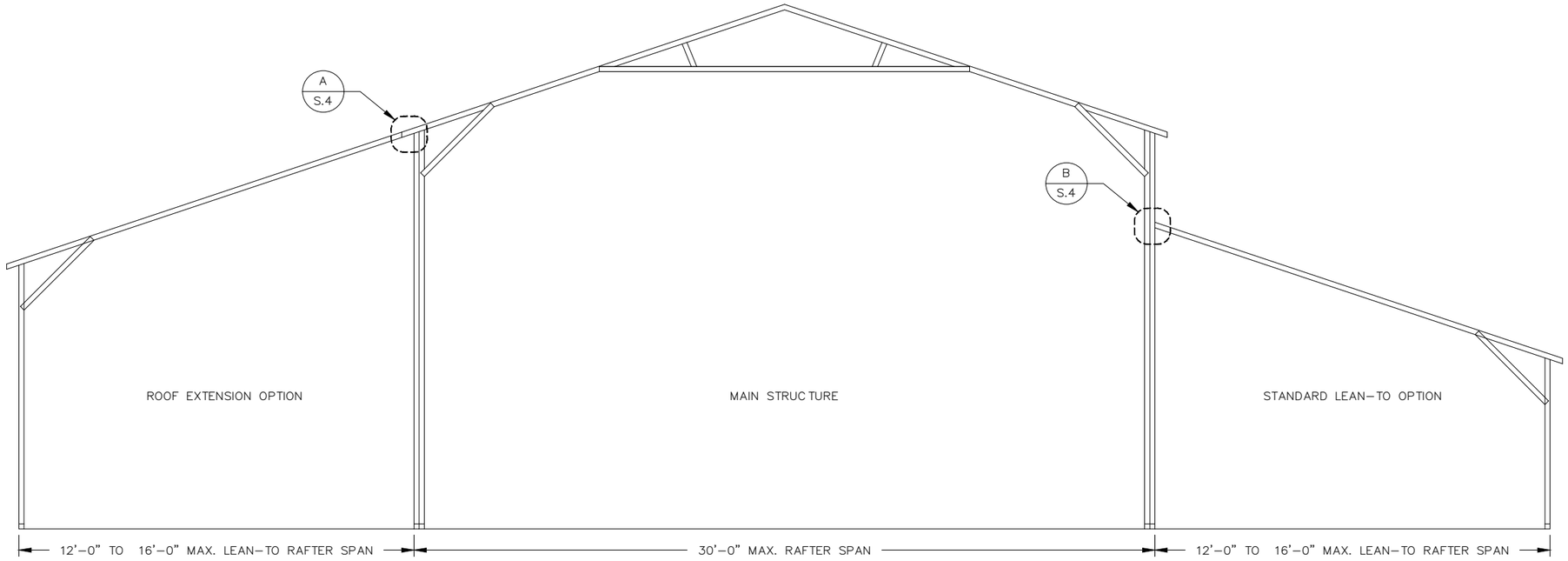
272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

PROJECT:	VAN HOY LEAN TO
CLIENT:	ELLEN VAN HOY
LOCATION:	226 SE MAYHALL TER, LAKE CITY, FL
JOB NO:	E092

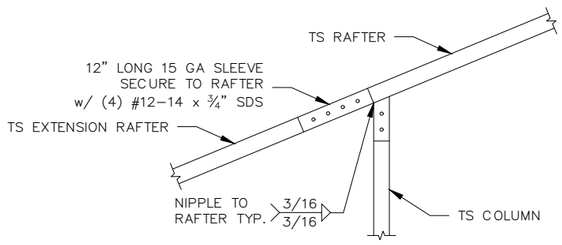
CONNECTION DETAILS (2 OF 2)

SCALE:	SHEET NO:
AS NOTED	S.6

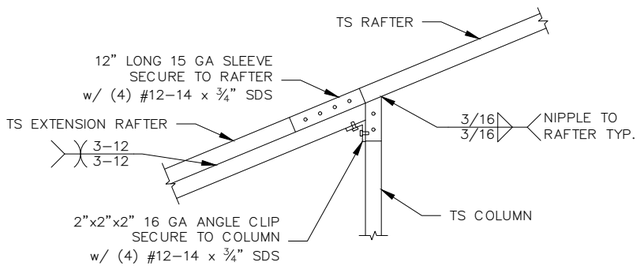


TYPICAL BOX EAVE RAFTER LEAN–TO OPTIONS

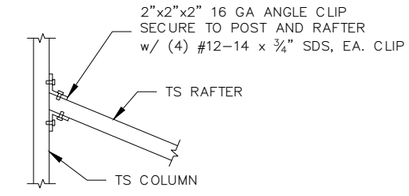
SCALE: NTS



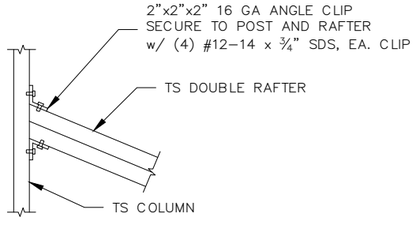
A1 SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN LESS THAN 12'–0"
SCALE: NTS



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



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



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

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JOB NO:	E092

BOX EAVE LEAN–TO OPTIONS

SCALE:	SHEET NO:
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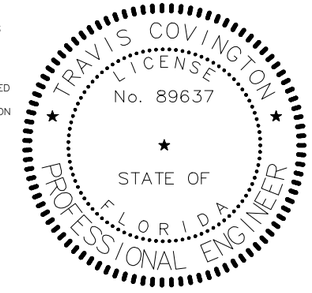
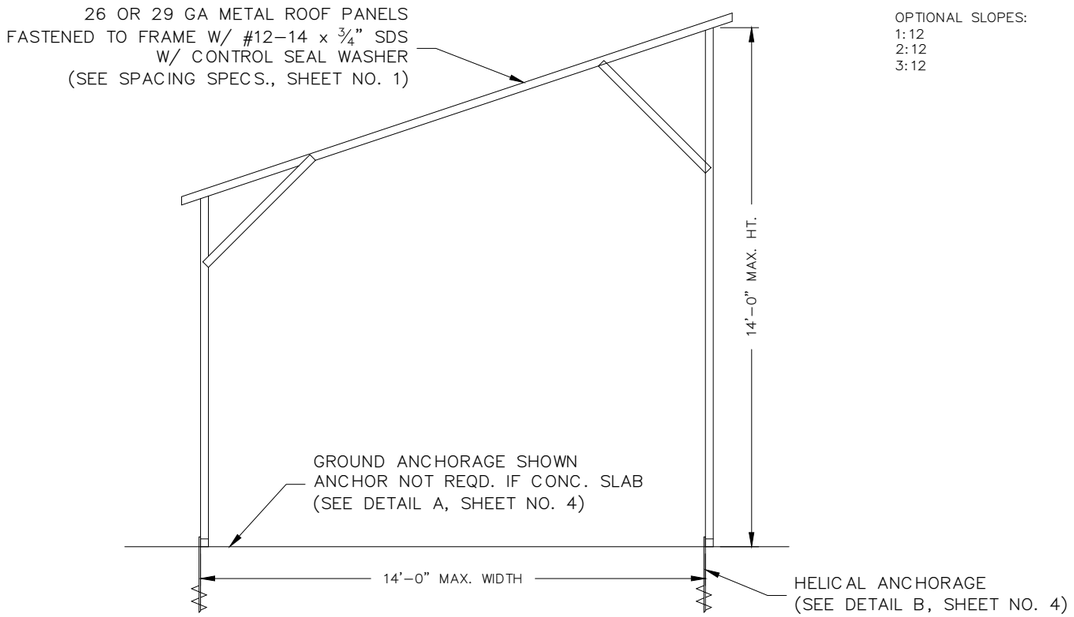
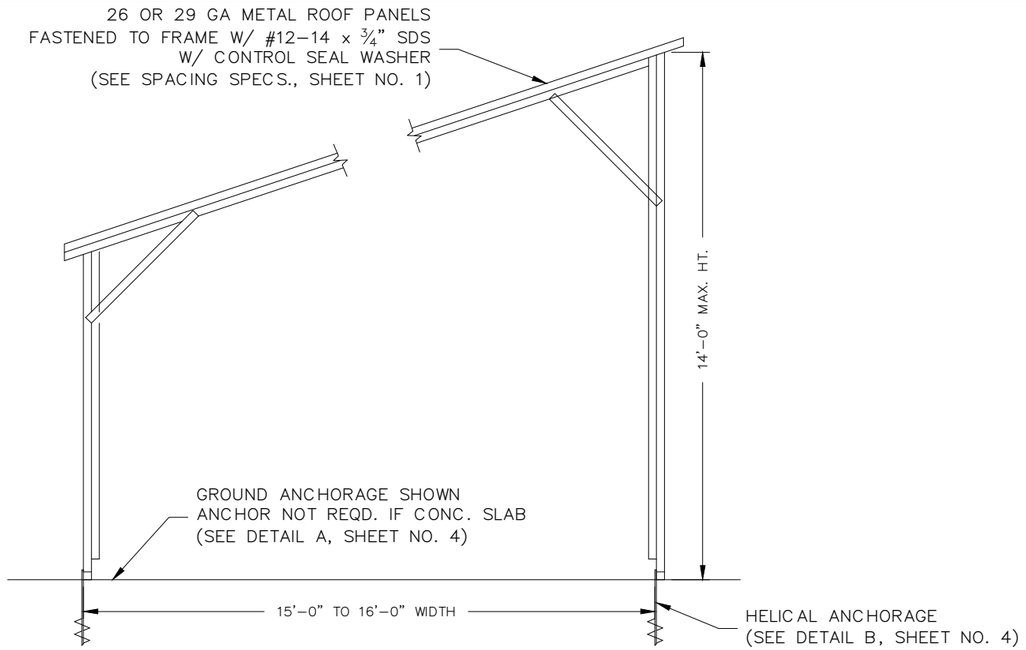




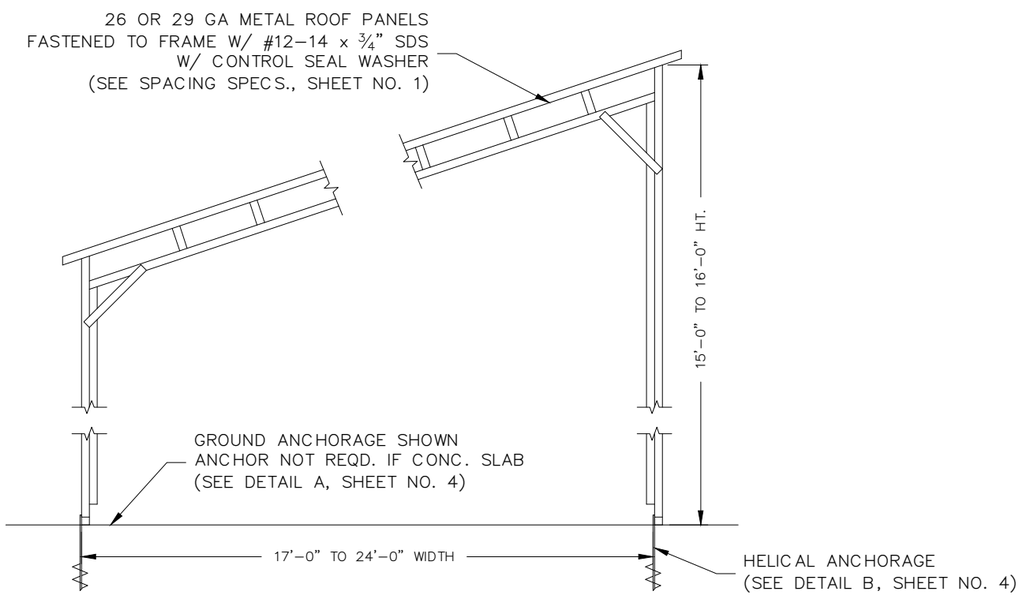
FRESTANDING LEAN–TO: MAX. 14FT WIDTH

SCALE: NTS



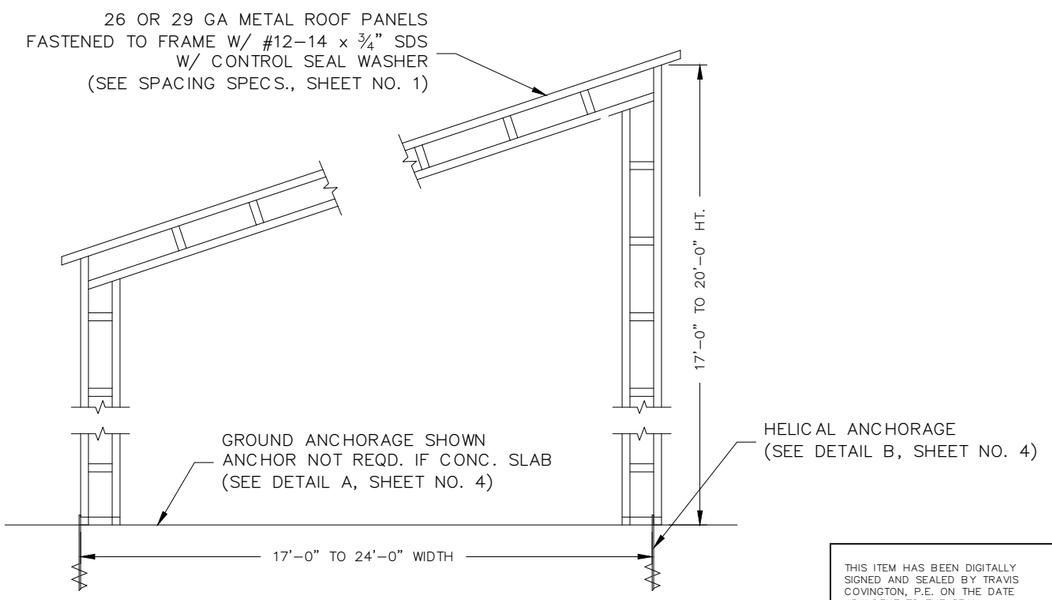
FRESTANDING LEAN–TO: 15FT TO 16FT WIDTH

SCALE: NTS



FRESTANDING LEAN–TO: 17FT TO 24FT WIDTH

SCALE: NTS



FRESTANDING LEAN–TO: 17FT TO 24FT WIDTH

SCALE: NTS

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FREE STANDING LEAN–TO OPTIONS

SCALE:	SHEET NO:
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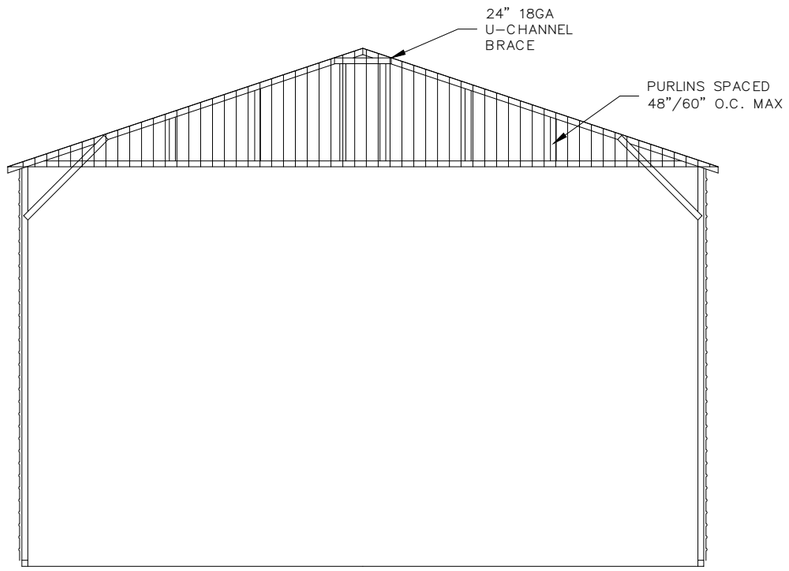
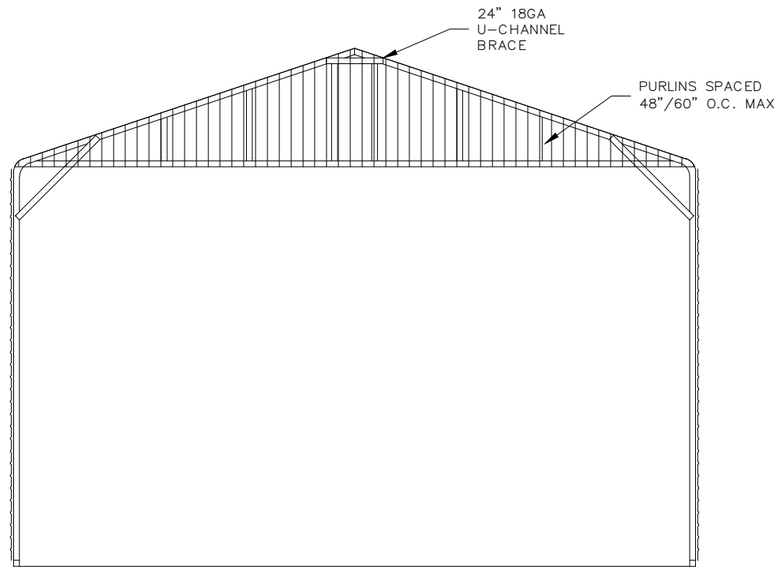


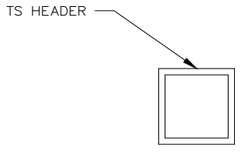
OPTIONAL GABLE END BOX EAVE FRAMING
SCALE: NTS



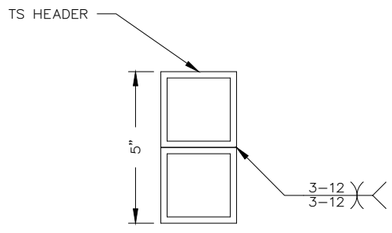
OPTIONAL GABLE END BOW EAVE FRAMING
SCALE: NTS

NOTES:

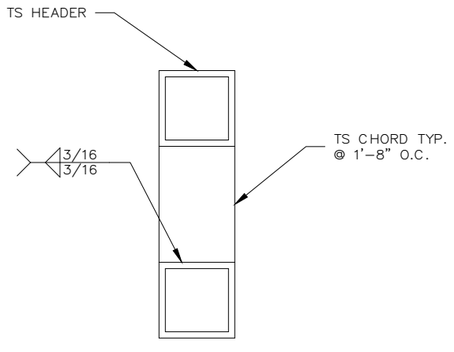
SIDEWALL COVER VARIES (SECURE TO FRAMING PER SIDING SPECS.)
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS



LENGTH ≤ 8'-0"

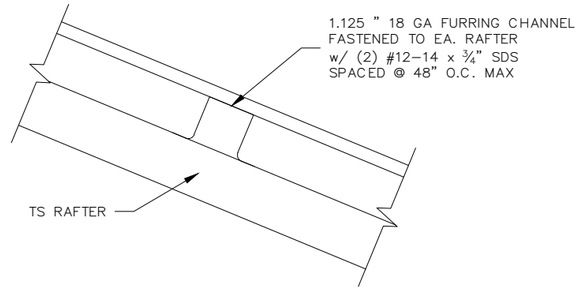


8'-0" < LENGTH ≤ 12'-0"



12'-0" < LENGTH ≤ 20'-0"

OPTIONAL SIDE WALL HEADERS
SCALE: NTS



VERTICAL ROOF PANEL ATTACHMENT
SCALE: NTS

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JOB NO:	E092

VERTICAL ROOF-SIDING OPTION

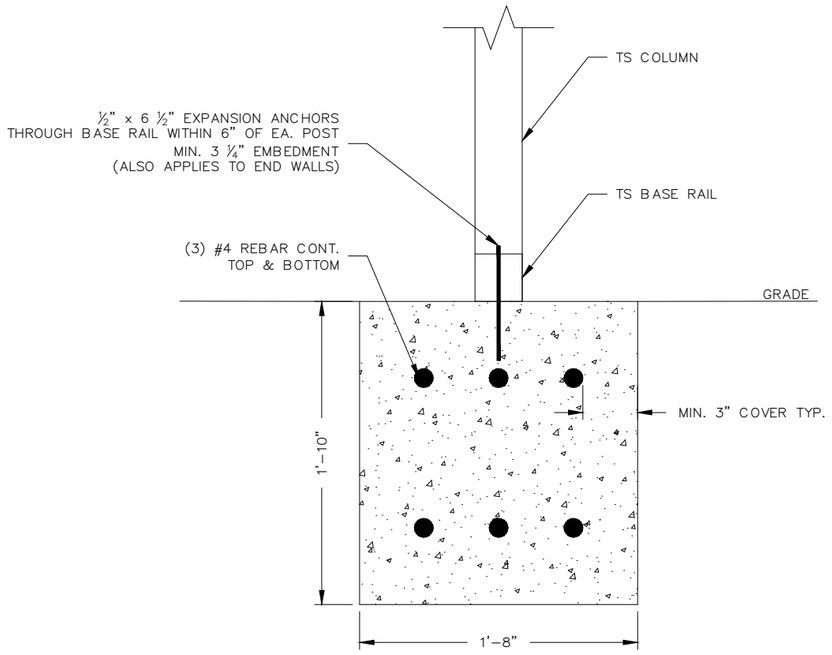
SCALE:	SHEET NO:
AS NOTED	S.9

GENERAL NOTES

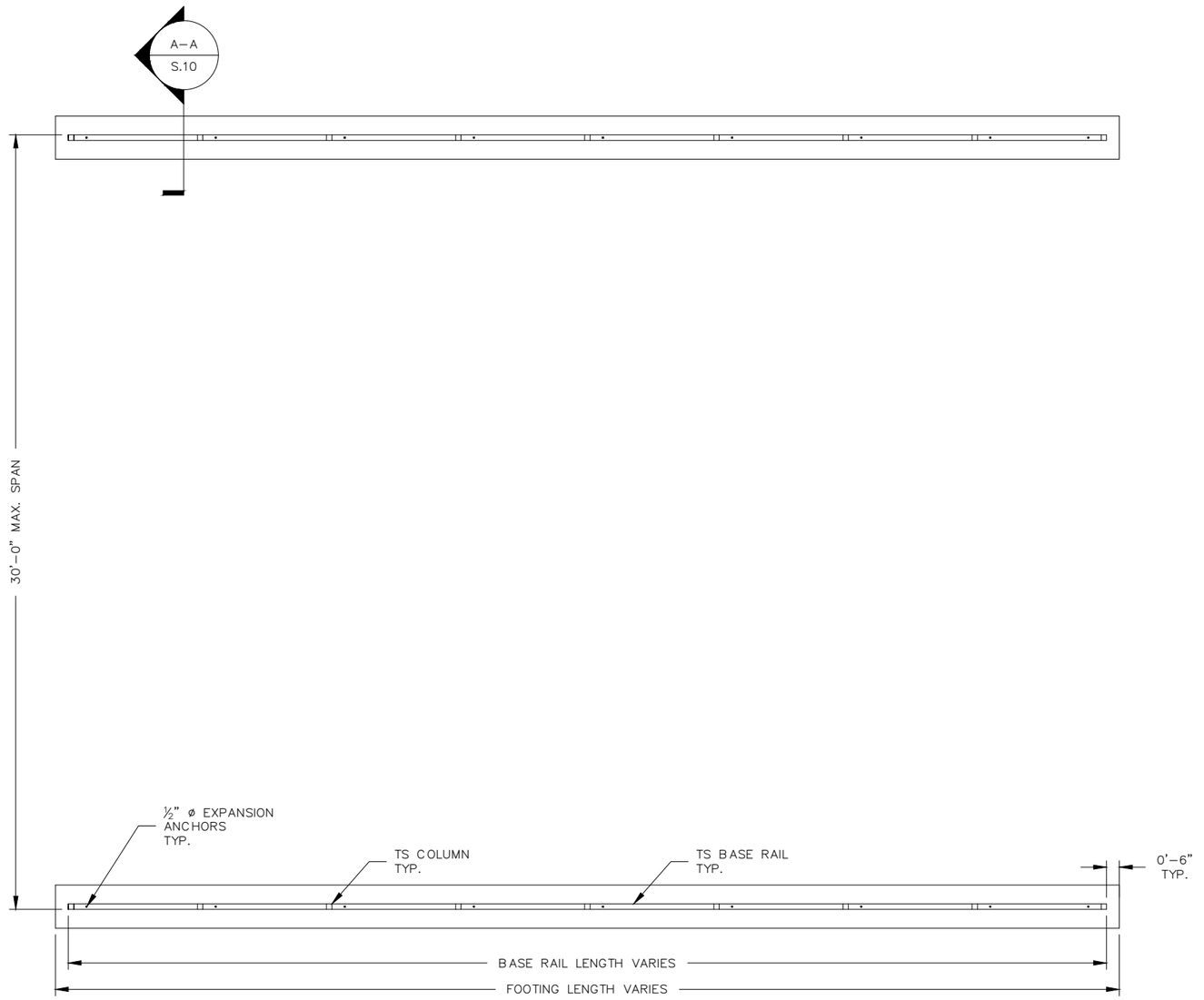
1. MINIMUM SOIL BEARING CAPACITY: 1500 PSF
2. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

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 STRIP FOOTING DETAIL
SCALE: NTS



CONCRETE STRIP FOOTING PLAN
SCALE: NTS

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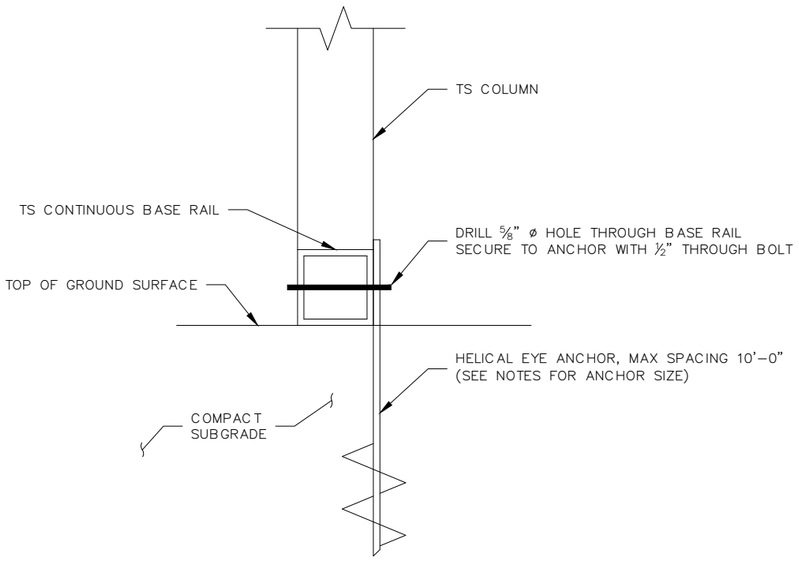
OPTIONAL CONCRETE STRIP FOOTING DETAILS

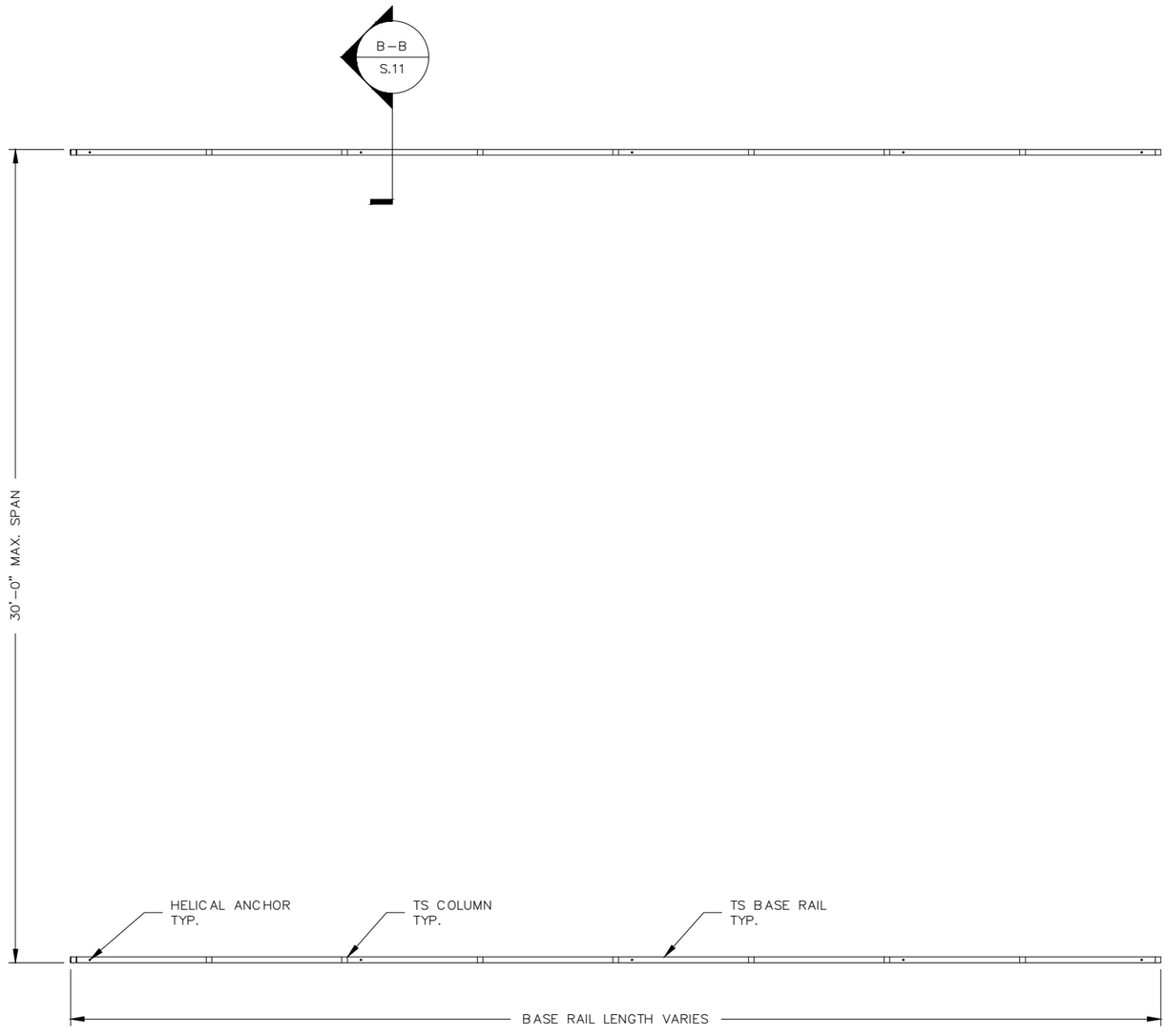
SCALE:	SHEET NO:
AS NOTED	S.10

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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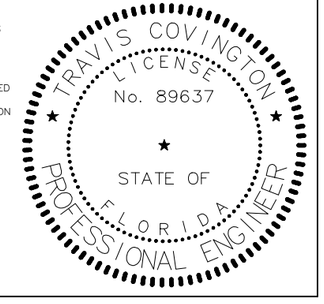

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OPTIONAL HELICAL ANCHORAGE DETAILS

SCALE:	SHEET NO:
AS NOTED	S.11