DESIGN LOADS

1. DEAD LOAD = 1.5 PSF

2. ROOF LIVE LOAD = 12 PSF

3. GROUND SNOW LOAD = 0 PSF

4. WIND LOAD

A. RISK CATEGORY = II

B. WIND EXPOSURE CATEGORY = C

C. ULTIMATE WIND SPEED = 110 M APPLICABLE STANDARDS

1. ASCE 7-22- AMOUNT OF THE PROPERTY OF 4. TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES 5. AWS D1.1: STRUCTURAL WELDING 2. AISC STEEL CONSTRUCTION MANUAL (17TH EDITION)
3. ACI 3.18-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 1. 2023 FLORIDA BUILDING CODE ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES

WIND EXPOSURE CATEGORY = C

ULTIMATE WIND SPEED = 110 MPH TO 170 MPH NOMINAL WIND SPEED = 85 MPH TO 132 MPH

DRAWING INDEX

CONNECTION DETAILS (1-2)
BASE RAIL AND FOUNDATION ANCHORAGE
RAFTER END WALL, SIDE WALL AND OPENING FRAMING
CONNECTION DETAILS (5-8)
BOX EAVE RAFTER LEAN-TO OPTIONS CONNECTION DETAILS (10-12)
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION
OPTIONAL HELICAL ANCHORING ON GRADE DETAIL

36" 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.

INSTALLATION NOTES AND SPECIFICATIONS

1. THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS. ELECTRICAL, PLUMBING, INGRESS/EGRESS, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER

SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD. CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. THE ENGINEER SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE BUILDING CODE STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN, ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL WITH MINIMUM YIELD STRENGTH OF THESE STRUCTURES ARE ENGINEERED AS CAPABLE OF SUPPORTING DEAD LOAD OF THE

54 KSI. ALL FASTENERS SHALL BE ZINC COATED HARDWARE

4. END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND

SPECIFICATIONS APPLICABLE TO 29 GA METAL PANELS FASTENED DIRECTLY TO 2.5"X2.5"X14 GA/2.5"X2.5"X12GA TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GA METAL

PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.

6. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" AND END = 6" MAX.

7. FASTENERS CONSIST OF #12-14X3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20'-0" OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS. SPACING

COLUMN ALONG SIDES AND ENDS. 8. ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.

9. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBARS WITH WELDED NUT X

RAFTER SPACING IS 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH AND 4'-0"
 FOR WIND SPEEDS BETWEEN 140 MPH AND 170 MPH.

WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

le = 1.0 Sds = 0.075 g V = CsW Sd1 = 0.051 g

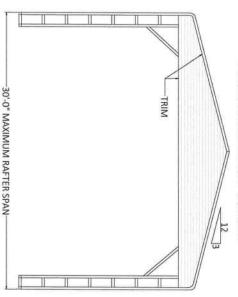
MAXIMUM 30'-0" WIDE X 100'-0" LONG X 20'-0" HIGH (EAVE)

FULLY OPEN METAL BUILDING DESIGN

BOX EAVE FRAME / BOW EAVE FRAME

TYPICAL END ELEVATION - BOX EAVE

30'-0" MAXIMUM RAFTER SPAN-



THE ENGINEERING ON THE SPECIFIC FOR (1) STRUCT SEAL & BLUE INK VALID WITHOU **GENERIC PLAN** TURE ONLY A S T A RAISED SIGNATURE ARE NOT ₹ is

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TYPICAL SIDE ELEVATION - HORIZONTAL ROOF

100'-0" MAXIMUM LENGTH-



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**GENERIC PLANS** 30' WIDE FULLY OPEN



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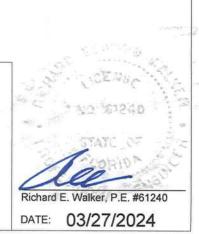
TYPICAL END ELEVATION - BOW EAVE

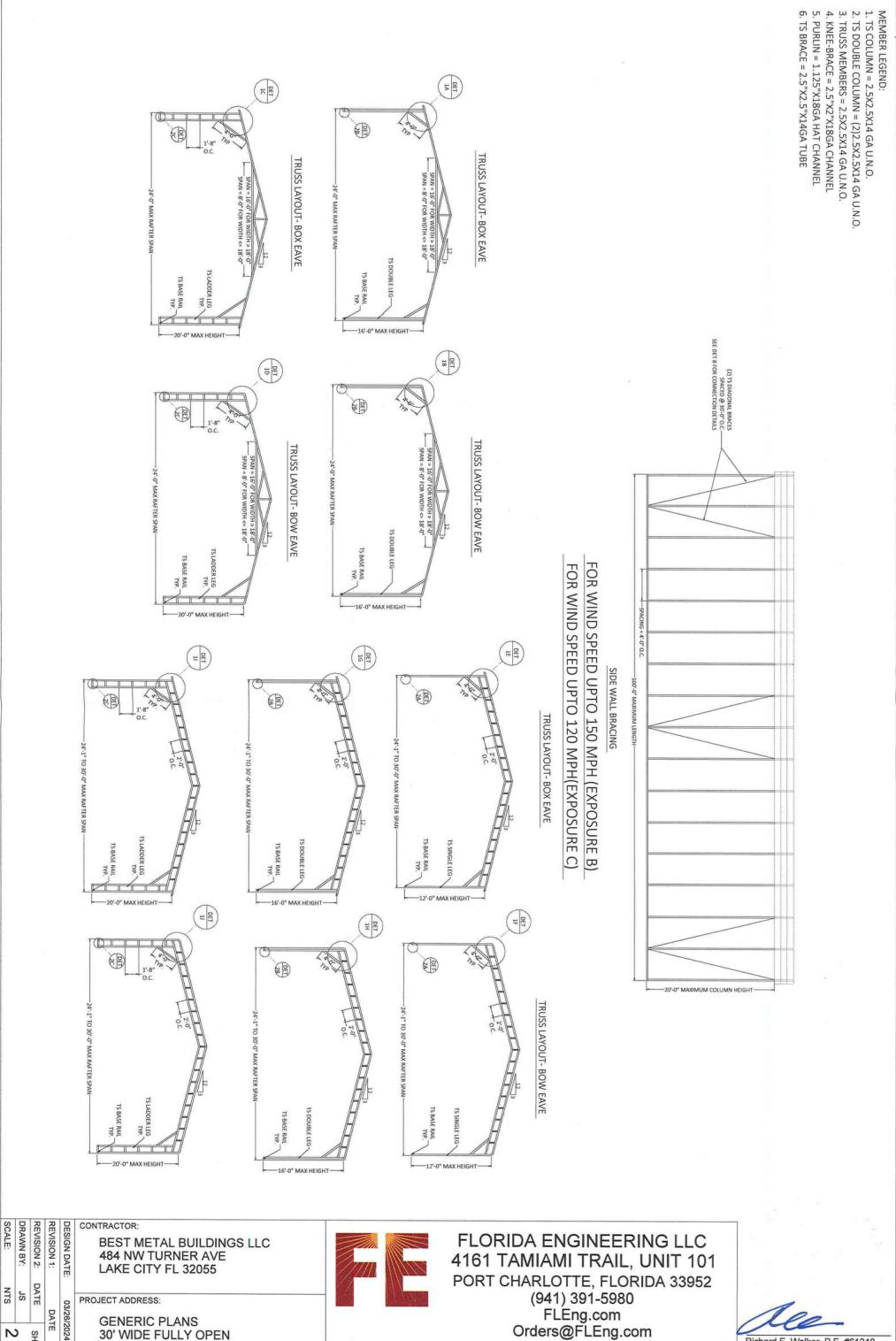
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**GENERIC PLANS** 

30' WIDE FULLY OPEN

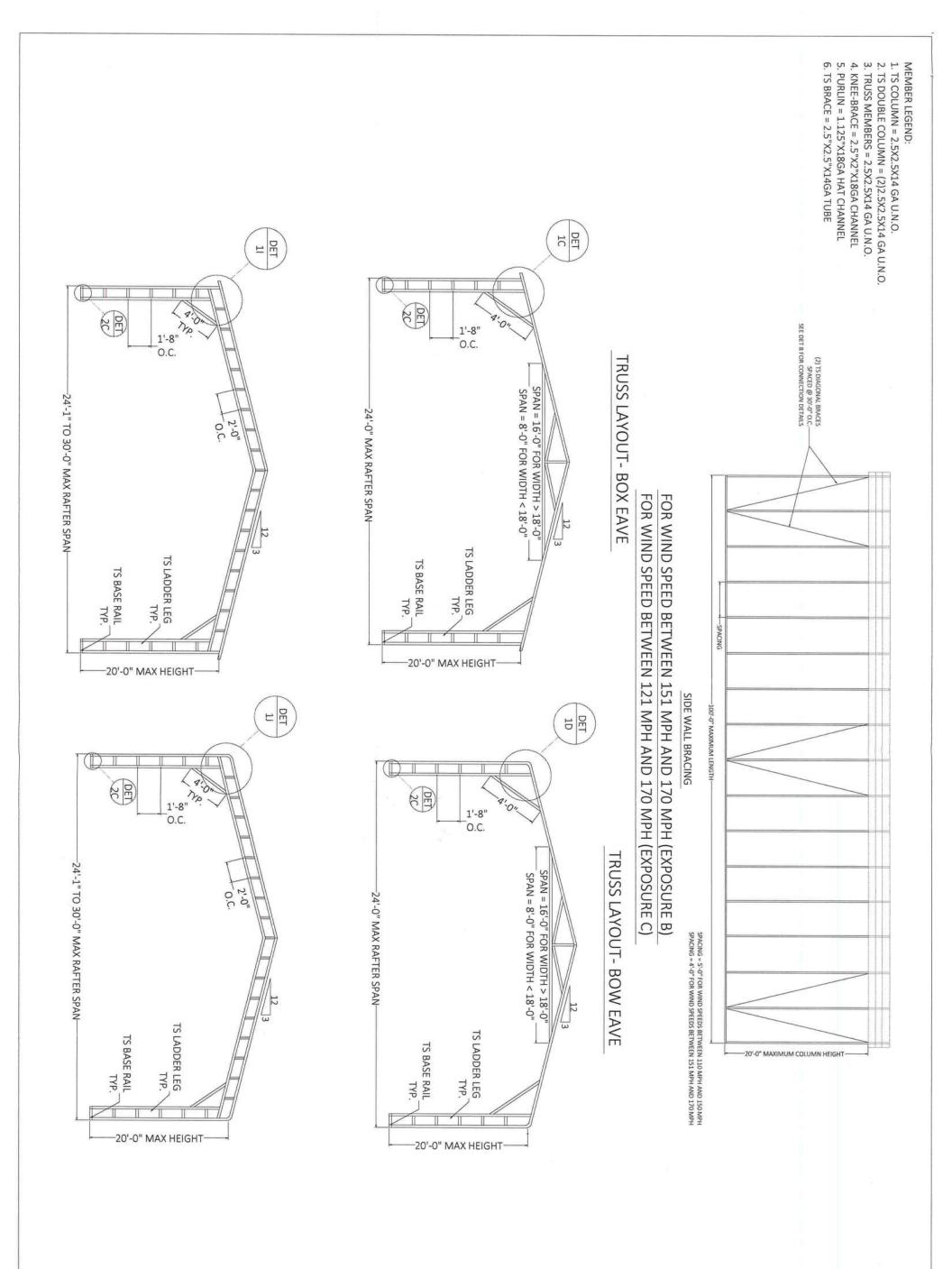
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Richard E. Walker, P.E. #61240 LICENSE #30782 03/27/2024

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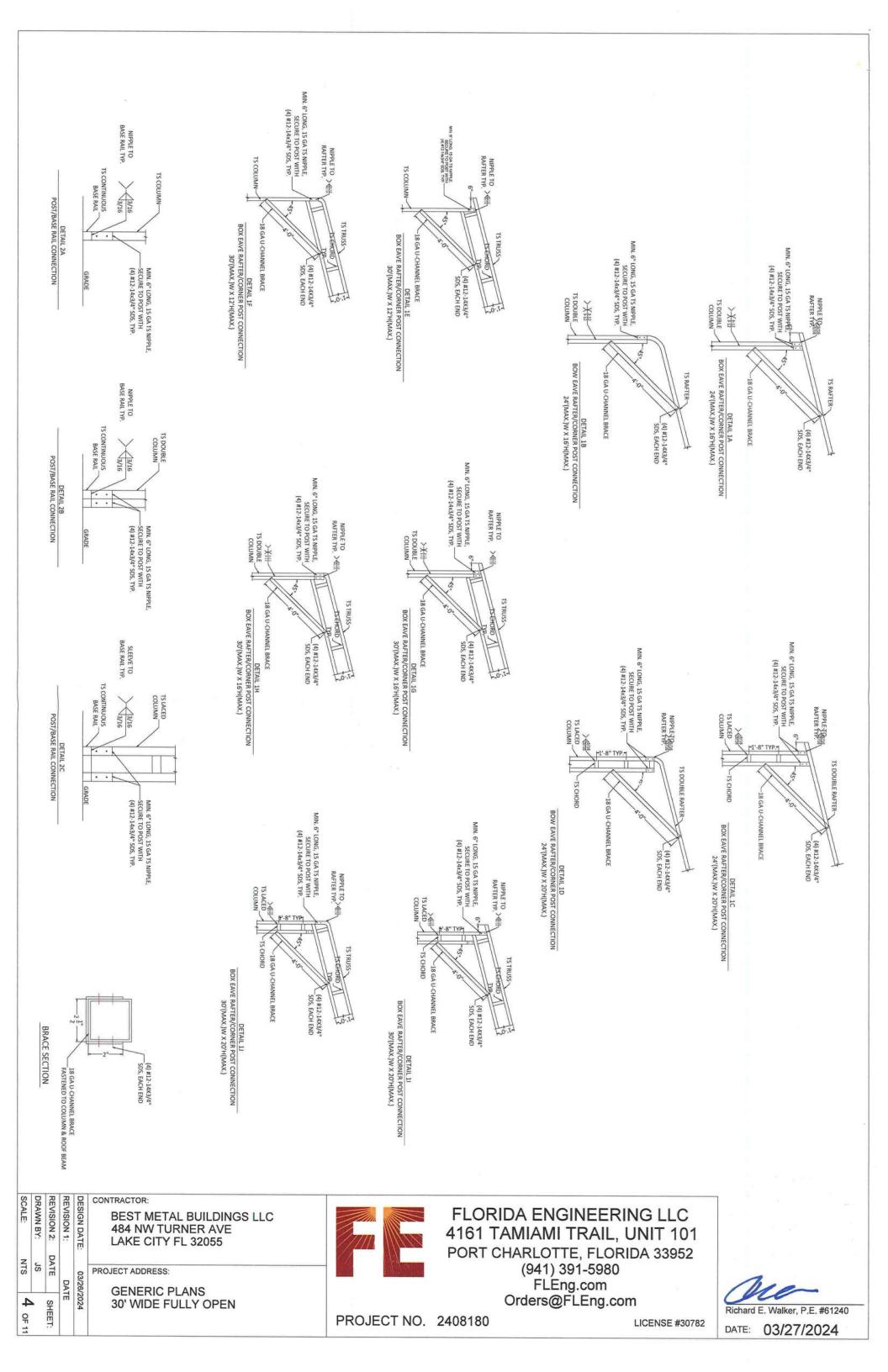
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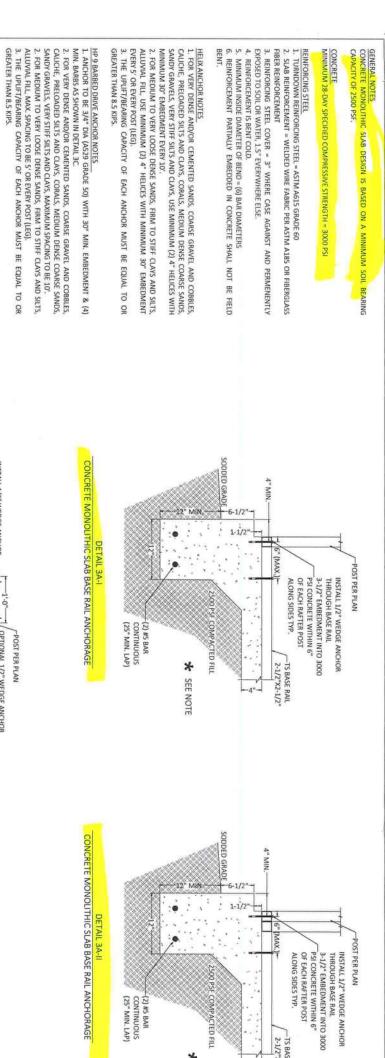


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3-1/2" EMBEDMENT INTO 3000
PSI CONCRETE WITHIN 6"
OF EACH RAFTER POST
ALONG SIDES TYP. \* SEE NOTE

3-1/2" EMBEDMENT INTO 3000
PSI CONCRETE WITHIN 6"
OF EACH RAFTER POST INSTALL 1/2" WEDGE ANCHOR 4" (MIN.) OPTIONAL 1/2" WEDGE ANCHOR
THROUGH BASE RAIL
3-1/2" EMBEDMENT INTO 3000
PSI CONCRETE WITHIN 6"
OF EACH RAFTER POST
ALONG SIDES TYP. 7 TS BASE RAII
ALONG SIDES TYP. 7 TS BASE RAII POST PER PLAN (2) #5 BAR CONTINUOUS (25" MIN. LAP) \* SEE NOTE 2.25"X2.25"X15GA

\*

= COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH BASED ON FROST LINE DEPTH.

DETAIL 3A-III

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

TOP OF ASPHALT
PAVEMENT OR—
GROUND SURFACE HELIX EYE ANCHOR TS CONTINUOUS BASE RAIL DETAIL 3B
GROUND BASE HELIX ANCHORAGE DRILL 5/8" DIAMETER
HOLE THROUGH THE BASE
—RAIL AND SECURE TO
ANCHOR EYE WITH 1/2"
DIAMETER THROUGH BOLT TOP OF ASPHALT
PAVEMENT OR—
GROUND SURFACE TS CONTINUOUS BASE RAIL DETAIL 3C
ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR) DRILL 5/8" DIAMETER
HOLE THROUGH THE BASE
—RAIL AND SECURE TO
ANCHOR EYE WITH 1/2"
DIAMETER THROUGH BOLT

1/2" DIA EXPANSION ANCHOR

BASE RAIL ANCHORAGE OPTION TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

TOP VIEW

TS COLUMN

-TS 2.5"X2.5"X14GA

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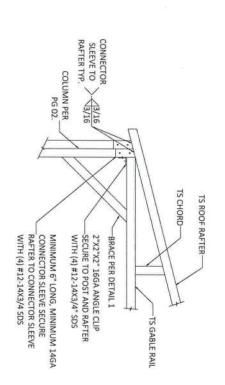
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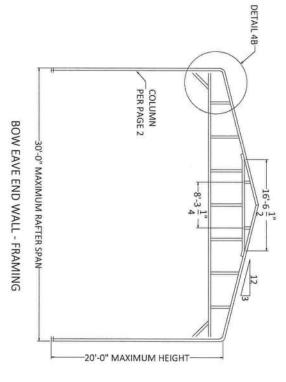
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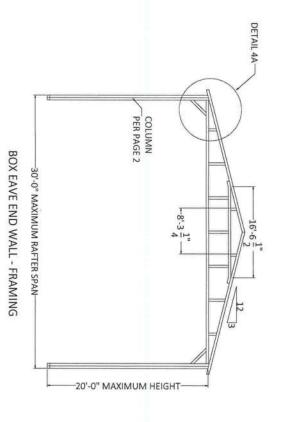
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03/27/2024

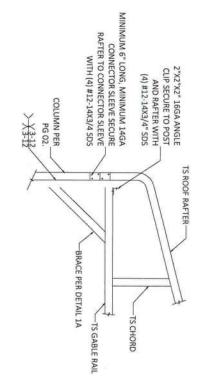
OPTIONAL BOX EAVE RAFTER GABLE RAIL TO
DOUBLE COLUMN CONNECTION DETAIL
FOR END WALL

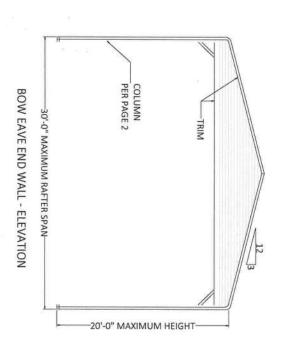


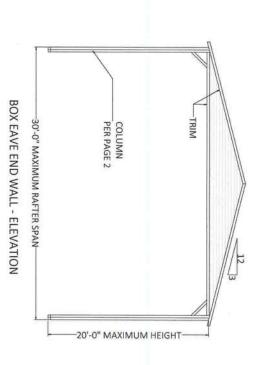




DETAIL 4B
OPTIONAL BOW EAVE RAFTER GABLE RAIL TO
DOUBLE COLUMN CONNECTION DETAIL
FOR END WALL







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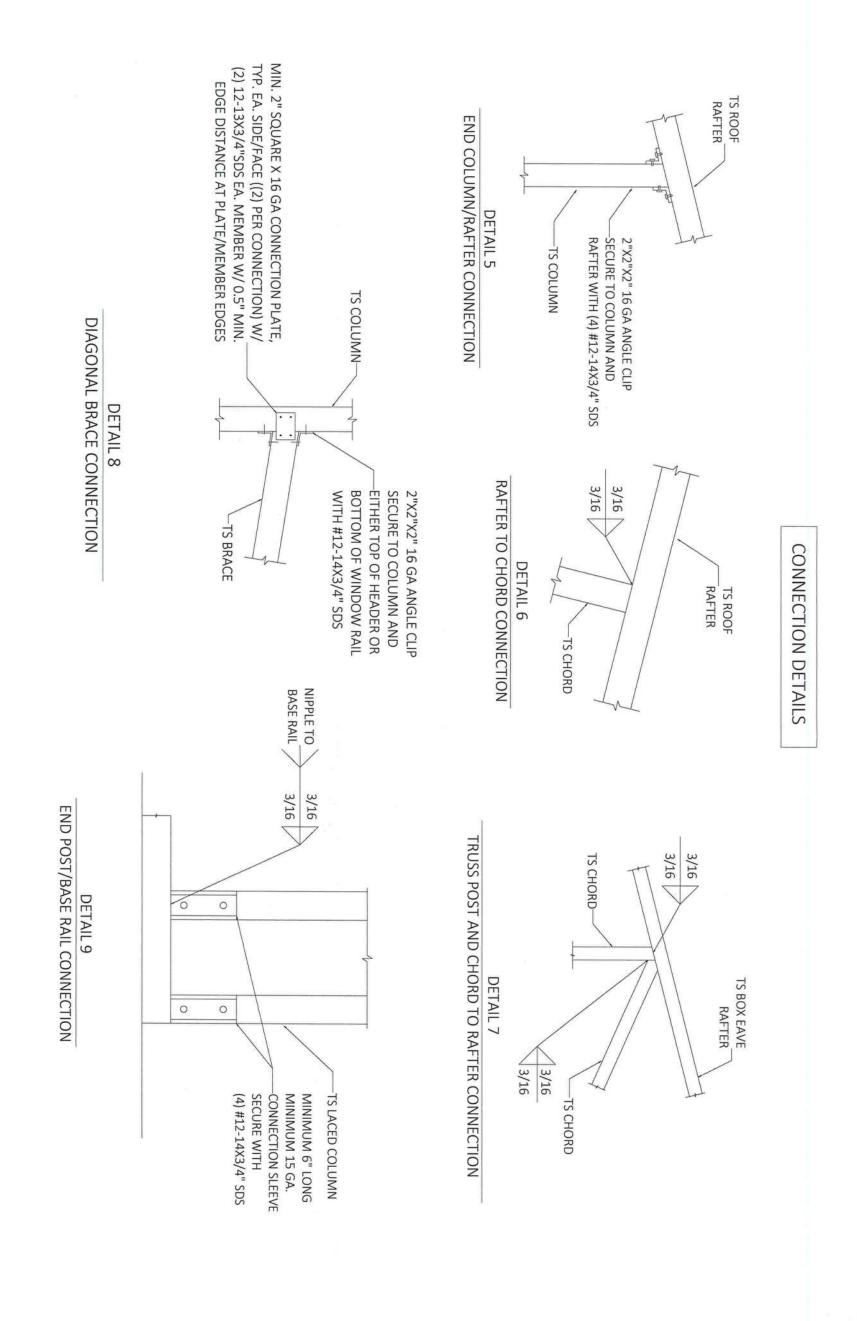


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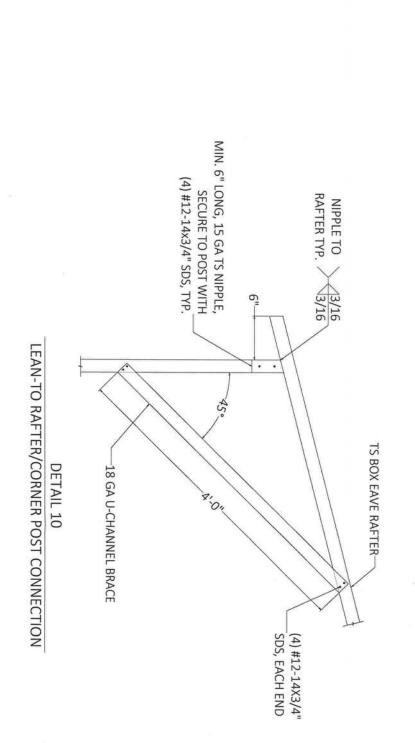


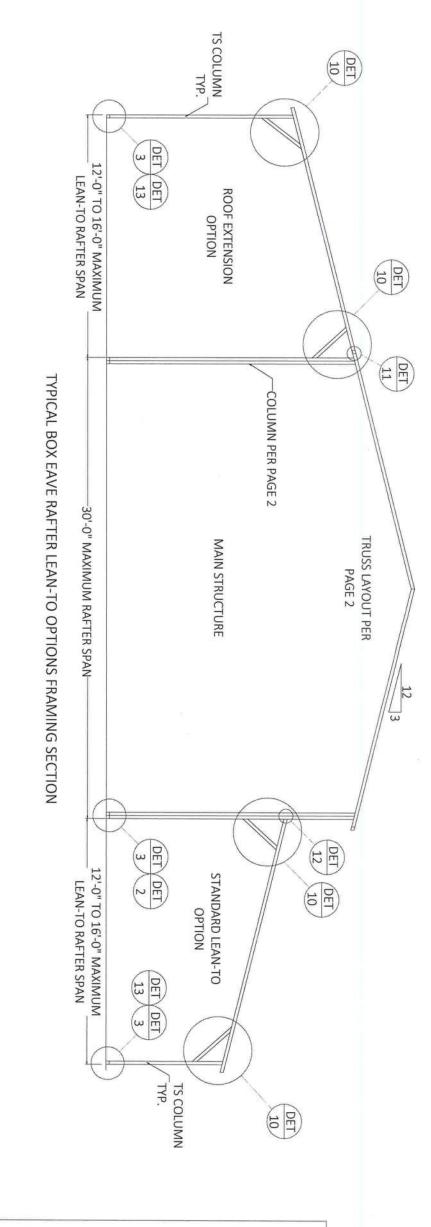


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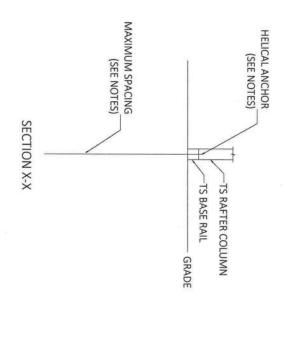
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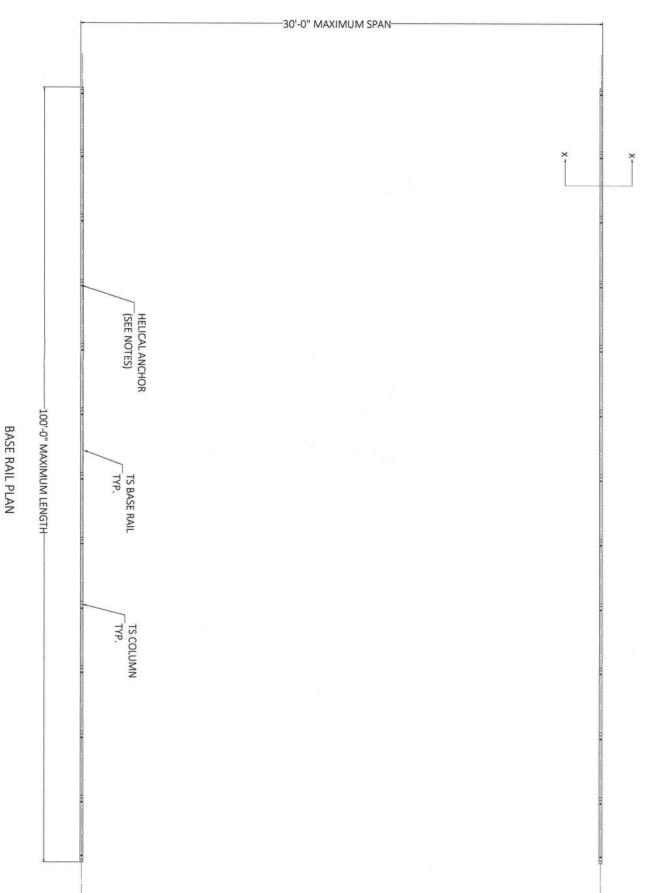
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HELIX ANCHOR NOTES

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT 2. FOR MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT EVERY 5' OR EVERY POST (LEG).

3. THE UPLIFT/BEARING CAPACITY OF EACH ANCHOR MUST BE EQUAL TO OR GREATER THAN 8.5 KIPS. EVERY 10'.





OPTIONAL HELICAL ANCHORING ON GRADE DETAIL

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