

APPLICABLE CODES, REGULATIONS, & STANDARDS

- A. THE 2023 FLORIDA BUILDING CODE, 8TH EDITION
B. ASCE/SEI 7 22 MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
C. AISC 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
D. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
E. AWS D1.1 STRUCTURAL WELDING

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, ELECTRICAL, PLUMBING, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS.

2. THESE STRUCTURES ARE ENGINEERED AS CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN, SUCH AS WINDOWS, DOORS, OR OTHER COMPONENT NOT LISTED IN THE FLORIDA BUILDING CODE APPROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY TUBULAR BUILDING SYSTEMS, WHICH CAVAL ADDONS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. FLORIDA ENGINEERING LLC, SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD

3. LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH). MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET
4. HIGH ULTIMATE WIND SPEED 141 TO 177 MPH (NOMINAL WIND SPEED 109 TO 132 MPH). MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET

5. ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED HARDWARE

6. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED)

7. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE
R = 3.5
SDS = 0.087g
SD1 = 0.084g

8. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
9. GROUND ANCHOR (SOIL NAILS) CONSIST OF #5 REBAR W/ WELDED NUT X 30" LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (< 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USE IN UNSUITABLE SOILS AS NOTED

10. MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25"
11. SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT. IN ACCORDANCE WITH ASTM D1557-93
12. PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TENDITES IN COMPLIANCE WITH THE FBC. FOR RISK CATEGORY II, III & IV STRUCTURES ONLY

13. ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE.

14. A LANDING OF MIN. 36" WIDTH IN THE DIRECTION OF TRAVEL SHALL BE PROVIDED AT THE EXTERIOR DOORS. SLOPE OF LANDING NOT TO EXCEED 1/4" 1" LANDING LEVEL NOT TO BE LOWER THAN 1 1/2" (FOR EGRESS DOORS) & 7-3/4" (FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD.

THE ENGINEERING ON THESE PLANS IS
AT THE PROVIDED ADDRESS(ES)

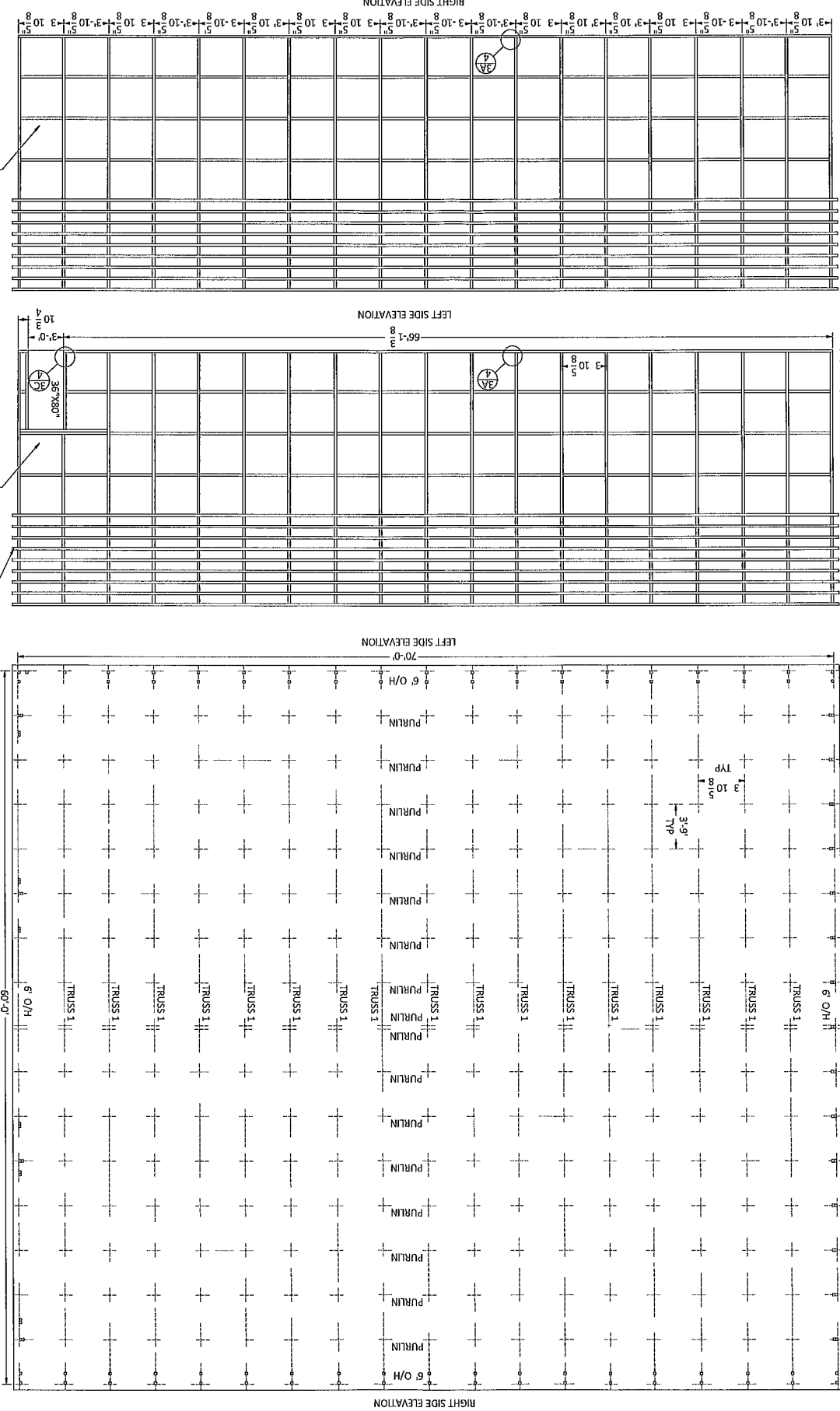
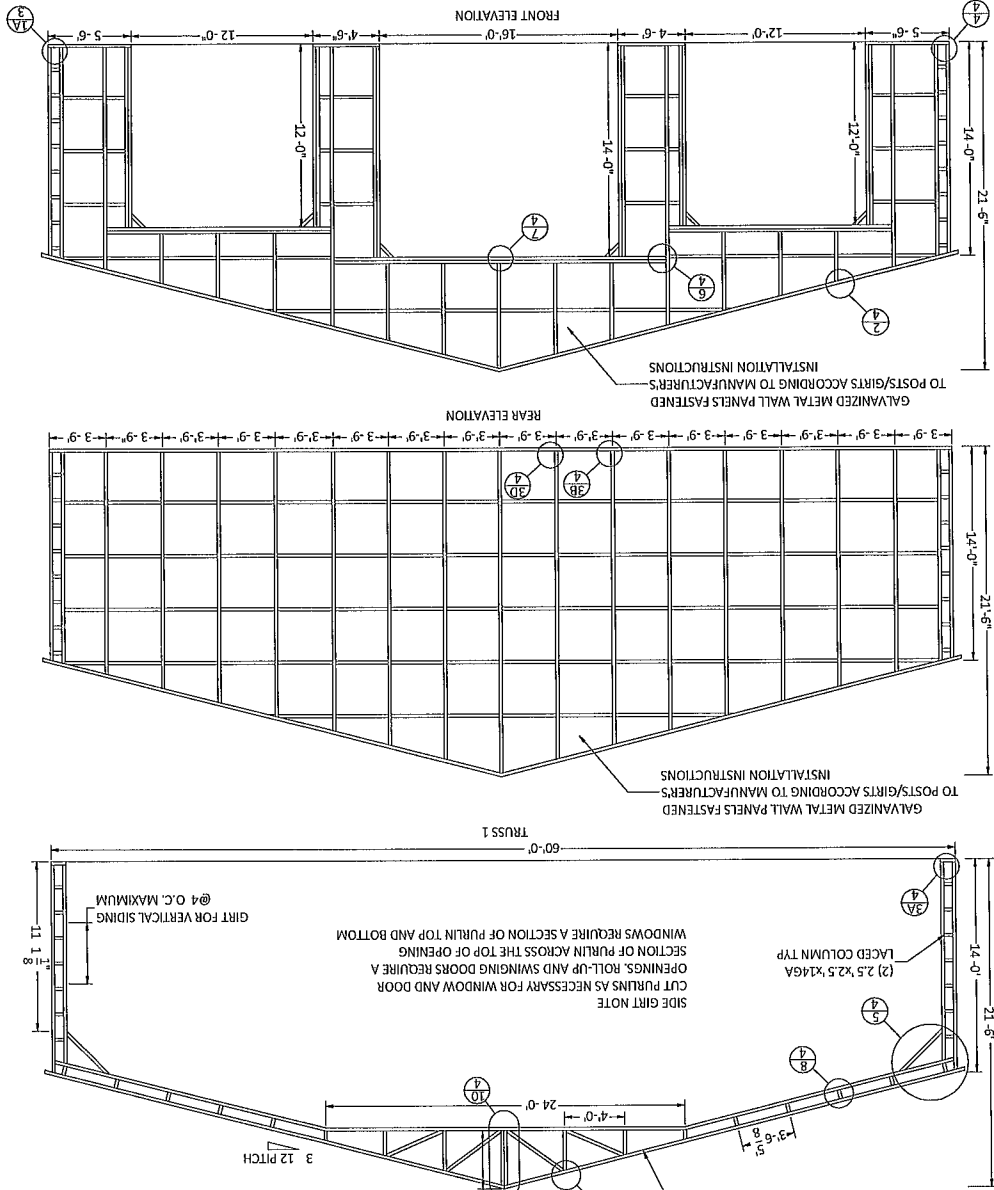
SHEET NO	S/01	GENERAL NOTES
DRAWING INDEX	S/02	PLAN/ ELEVATIONS
FOUNDATION PLAN	S/03	
DETAILS	S/04	

PROPOSED METAL BUILDING FOUNDATION & SHELL
STRUCTURAL DESIGN ONLY. ALL OTHER REQUIRED PERMITS TO BUILD OUT TO A HABITABLE LIVING SPACE ARE TO BE BY OTHERS/ PER SEPARATE CERTIFICATE. INCLUDING BUT NOT LIMITED TO, ELECTRICAL, PLUMBING, ENERGY CALCS, ETC.
FOR MORE INFORMATION VISIT:
<https://flen@hneerhngllc.com/order/> OR SCAN QR CODE.



DESIGN DATA

DESIGN DATA	
DESIGN CRITERIA RISK CATEGORY OCCUPANCY CLASSIFICATION CONSTRUCTION TYPE DEFLECTION LIMIT = ULTIMATE DESIGN WIND SPEED (MPH) VULT = NOMINAL DESIGN WIND SPEED (MPH) VASD = EXPOSURE CATEGORY MEAN BUILDING HEIGHT (FT) = MINIMUM BUILDING PLAN DIMENSION (FT) = END ZONE DIMENSION (FT) a = ROOF STYLE ROOF PITCH (IN 12) OCCUPANCY CLASSIFICATION DEAD LOAD (DUE TO SELF-WEIGHT) = ROOF LIVE LOAD = GROUND SNOW LOAD =	ASCE/SEI 7 I S2 II-B 60.00 1/120 110 86 C 17.75 60.00 6.00 GABLE 3 5 2 PSF 12 PSF 2 PSF PARTIALLY ENCLOSED
ADJUSTED C & C WIND PRESSURES (ASD) (PSF)	
EFFECTIVE WIND AREA FOR ROOF (SQ. FT)	300.00 N/A N/A N/A 11.9 14.6 24.9 11.9 21.6 -31.9 11.9 -32.8 -43.0
EFFECTIVE WIND AREA FOR WALLS (SQ. FT)	65.33 19.6 21.0 19.6 65.33
CONTRACTOR TO PROVIDE BUILDING CODE APPROVED PRODUCTS TO MEET OR EXCEED THE DESIGN PRESSURES AS TABULATED.	



FASTENING SCHEDULE		
ROOF	6'-3" - 6'-3" - 6'-3" - 6'	PANEL W/ NO SIDE LAP FASTENER
WALL	6'-3" - 6'-3" - 6'-3" - 6'	PANEL W/ NO SIDE LAP FASTENER

- SCOPE OF WORK
PROPOSED METAL BUILDING FOUNDATION & EXTERNAL PERMITS TO BUILD OUT TO A HABITABLE LIVING SPACE ARE TO BE BY OTHERS, INCLUDING BUT NOT LIMITED TO ELECTRICAL, PLUMBING, ENERGY CALCULATIONS, ETC.
- FRAMING NOTES:
1. ALL FRAME MEMBERS ARE 2.5" X2.5" X14 GA TS U.N.O.
2. MAX. RAFTER SPACING = 4'-0"
3. U-BRACE = 2.5"X2" X18 GA CHANNEL
4. PURLIN = 1.5" X 18GA HAT CHANNEL
5. KNEE BRACE = 2.5" X2" X18GA CHANNEL
6. GIRT = 1.5" X 18GA HAT CHANNEL
- 2.5"X2.5"X14GA COLUMN
(2) 2.5"X2.5"X14GA LACED COLUMN

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
P.O. BOX. 2254
LAKE CITY, FL 32056

PROJECT ADDRESS:
WARING
413 SE HOLLY TER
LAKE CITY, FL 32025

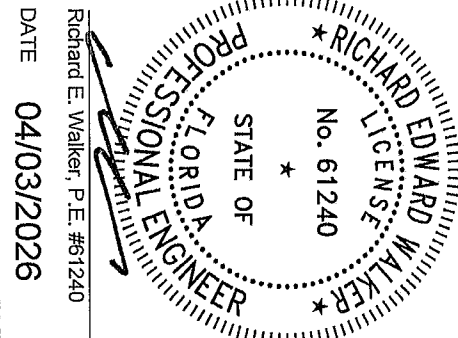
DESIGN DATE: 03/31/2026
REVISION 1
DATE
REVISION 2
DATE
DRAWN BY: TCP
SCALE: NTS

SHEET: 02

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CA CERT #30782



CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2500 PSF

2. ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE OR CONCRETE SLAB FOR GARAGES/CARPORTS (PARKING OF AUTOMOBILES OR OTHER VEHICLES) SHALL BE SLOPED TOWARD THE DRAIN LINE OR THE MAIN VEHICLE ENTRY DOORWAY WITH A MINIMUM PITCH OF 1/4 INCH

COMPONENTS
! PORTLAND CEMENT TYPE 1 - ASTM C 150

✓ CLEAN POTABLE WATER

✓ OTHER ADMIXTURES NOT PERMITTED

WEATHER RECOMMENDATIONS
D MOIST CURE OR POLYETHYLENE CURING PERMITTED

CATEGORY II, III, & IV STRUCTURES ONLY

REINFORCING STEEL

2 REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS
a IT IS BENT COLD,

IS NOT LESS THAN SIX-BAR DIAMETERS

INCHES

OFFICIAL REGARDING REQUIRED FOOTING DEPTH BASED ON FROST LINE

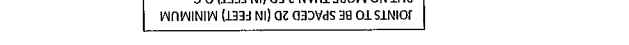
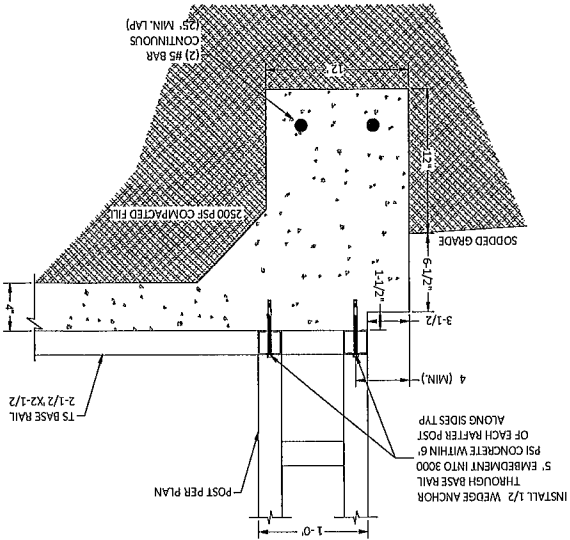
SLAB THICKNESS
(d)

0.25d

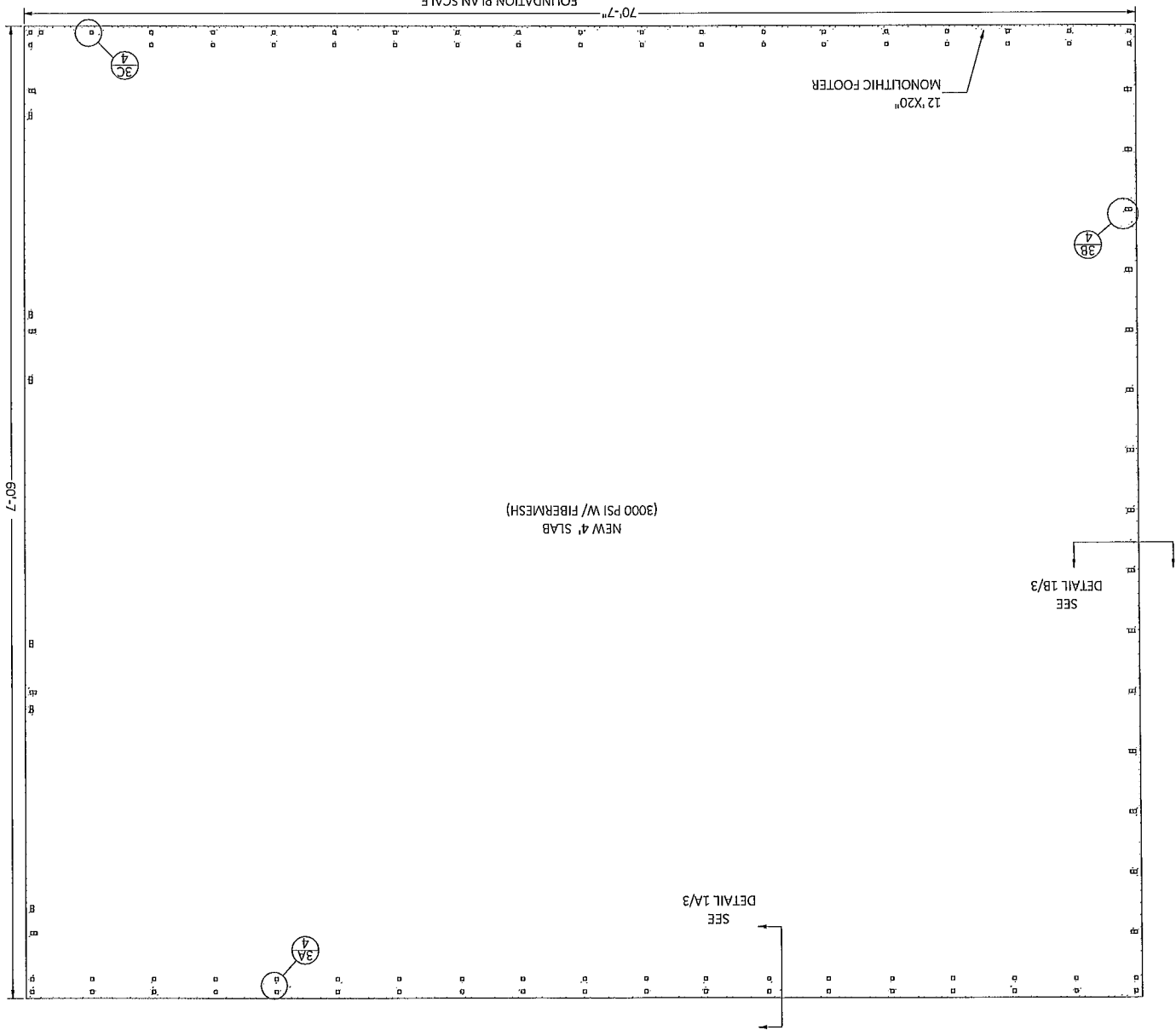
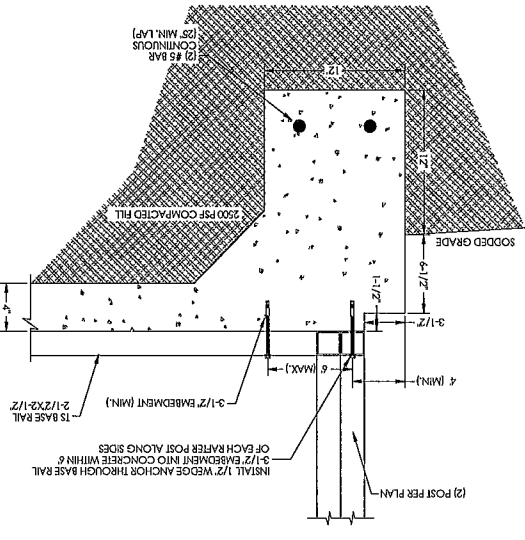
90 DAYS.

JOINTS TO BE SPACED 20 (IN FEET) MINIMUM

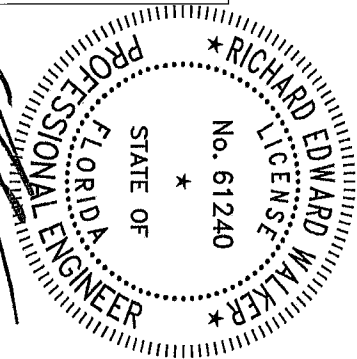
JOINTS TO BE SPACED 20 (IN FEET) MINIMUM
BUT NO MORE THAN 2.5D (IN FEET) O.C.

12"x20" MONO. FOOTER BASE RAIL ANCHORAGE
SCALE: NTS
A

12X20 MONO. FOOTER BASE RAIL ANCHORAGE
SCALE: NTS



- 2 5X2 5X14GA COLUMN



Richard E. Walker, P.E. #61240
DATE 04/03/2026

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