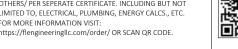
- A. THE 2023 FLORIDA BUILDING CODE, 8TH EDITION
- B ASCE/SEL7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- C. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- D. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- E. AWS D1.1: STRUCTURAL WELDING
- 1. THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWERS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, ELECTRICAL, PLUMBING, INGRESS/EGRESS, 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 ANOTHER COMPONENT NOT LISTED IN THE FLORIDA BUILDING CODE APROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY TUBULAR BUILDING SYSTEMS, WHICH CAUSE ADDITIONAL LOADS 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 170 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
- 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. FASTENERS CONSIST OF #12-14 x 3/4" SELF DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 8. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR END = 6", (MAX.).
- 9. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED

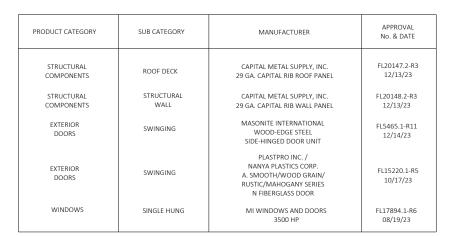
SOIL SITE CLASS = D RISK CATEGORY I/II/III R = 3.25le = 1.0Sds = 0.087 g V = CsW Sdi = 0.084 g

- 10. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF FACH RAFTER COLUMN ALONG SIDES.
- 11. 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.
- 12. MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25"
- 13. SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557-93
- 14. PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC. FOR RISK CATEGORY II, III, & IV STRUCTURES
- 15. ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE.
- 16. 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

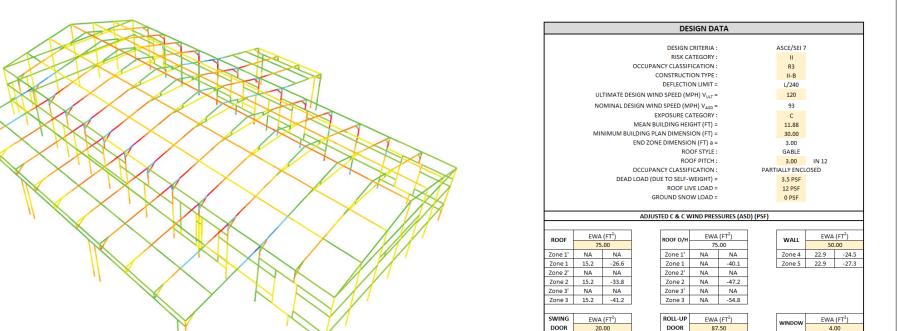
SHEET NO.	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	FOUNDATION PLAN
S/04	DETAILS

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 SEPERATE CERTIFICATE, INCLUDING BUT NOT LIMITED TO, ELECTRICAL, PLUMBING, ENERGY CALCS., ETC. FOR MORE INFORMATION VISIT:





CTP = CONTRACTOR TO PROVIDE APPROVED PRODUCTS THAT MEET OR EXCEED WIND DESIGN PRESSURES.



CONTRACTOR TO PROVIDE BUILDING CODE APPROVED PRODUCTS TO MEET OR EXCEED THE DESIGN PRESSURES AS TABULATED.

Zone 4 22.2 -23.8

Zone 4 24.8 -26.5

Zone 4 24.0 -25.6

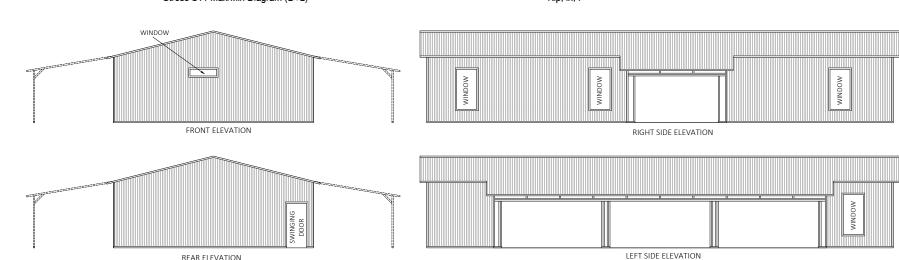


3-D FINITE ELEMENT ANALYISIS PERFORMED STRUCTURE COMPLIES w/ FBC 2023 8th EDITION

THE ENGINEERING ON THESE PLANS IS

SITE SPECIFIC FOR (1) STRUCTURE ONLY

AT THE PROVIDED ADDRESS(ES).



O EDWARD WALL Digitally signed by Richard E Walker SIAIL SONIDA CHOM Date: 2024.02.28 14:23:44-05'00'

> 1 TAMIAMI TRAIL, UNIT 101 T CHARLOTTE, FLORIDA 33952 (941) 391-5980 FLEng.com ORIDA ENGINE

FLEng.com Orders@FLEng.com **PORT**

2403108

PROJECT NO.





 $\overline{\mathbf{S}}$ SYSTEM BUILDING 8 32056 TUBULAR BUIL P.O. BOX. 2254 LAKE CITY, FL (

CONTRACTOR

SNIDER 403 SE TEVIS AVE LAKE CITY, FL 32025 JECT ADDRESS

DESIGN DATE: 02/23/2024 **REVISION 1** 02/23/2024

REVISION 2: 02/23/2024 DRAWN BY: **TCP** SCALE:

NTS

SHEET:

SCOPE OF WORK Digitally PROPOSED METAL BUILDING FOUNDATION & EXTERNAL SHELL This item has been digitally signed and sealed by Richard E. Walker, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signs and sealed and the signature must be verified on any electronic copies. EDWARD WARD NO. 61240 STRUCTURAL DESIGN ONLY. ALL OTHER REQUIRED PERMITS TO BUILD signed by Richard E OUT TO A HABITABLE LIVING SPACE ARE TO BE BY OTHERS, INCLUDING BUT NOT LIMITED TO, ELECTRICAL, PLUMBING, ENERGY CALCULATIONS, Walker FRAMING NOTES: 1. ALL FRAME MEMBERS ARE 2.5"X2.5"X14 GA TS U.N.O. STATE OF CORIDARY STATE OF Date: 2. MAX. RAFTER SPACING = 5'-0" 3. U-BRACE = 2.5"X2"X18 GA CHANNEL 2024.02.28 4. PURLIN = 1.5" X 18GA HAT CHANNEL 5. KNEE BRACE = 2.5"X2"X18GA CHANNEL 14:23:41-05'00' FLORIDA ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com GALVANIZED METAL WALL PANELS FASTENED TO POSTS ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS CA CERT. #30782 GALVANIZED METAL WALL PANELS FASTENED GALVANIZED METAL WALL PANELS FASTENED TO POSTS ACCORDING TO MANUFACTURER'S TO POSTS ACCORDING TO MANUFACTURER'S —
INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS 36"X72" TRUSS TRUSS 36"X80" 2403108 PROJECT NO. 36"X72' TRUSS 36"X72" TUBULAR BUILDING SYSTEMS P.O. BOX. 2254 LAKE CITY, FL 32056 36"X72" 12" O/H SNIDER 403 SE TEVIS AVE LAKE CITY, FL 32025 1.5" 18 GAUGE FURRING CHANNEL SPACED AT -4'-0" (MAX) O.C. AND FASTENED TO FACH RAFTER WITH (2) #12-14 x 3/4" SDF'S GALVANIZED METAL WALL PANELS FASTENED 3 : 12 PITCH TO POSTS ACCORDING TO MANUFACTURER'S GALVANIZED METAL ROOF PANELS FASTENED TO PURLINS ACCORDING TO MANUFACTURER'S— INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS 10 4 2: 12 PITCH PROJECT ADDRESS: CONTRACTOR: 2'-6" 4 DESIGN DATE: 02/23/2024 REVISION 1: 02/23/2024 SECTION 1 - 1 REVISION 2: 02/23/2024 SHEET: DRAWN BY: SCALE: NTS

GENERAL NOTES

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

COVERAGE OF THE REINFORCED STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3 INCHES WHERE THE CONCRETE IS POURED AGAINST AND TEMPORARY IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH OR WEATHER, OTHERWISE 1-1/2 INCHES.

CONCRETE NOTE:

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

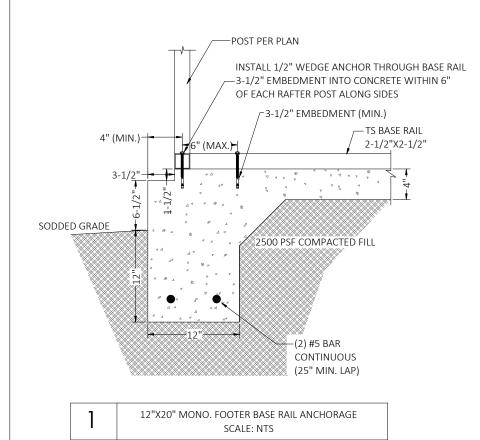
REINFORCING STEEL:

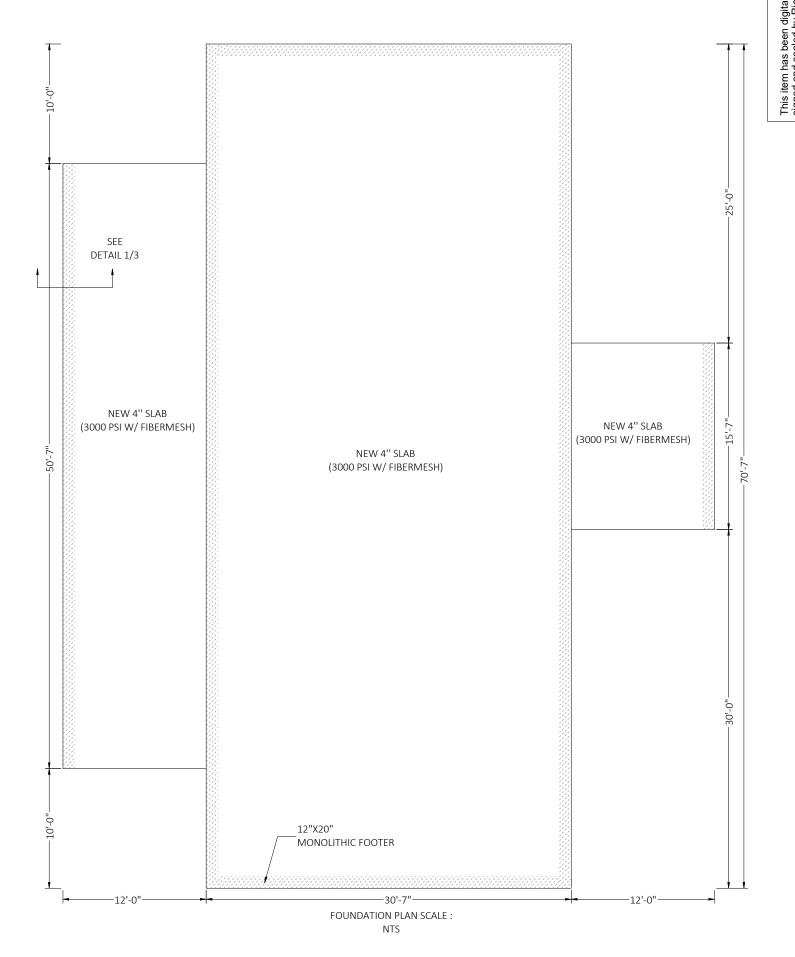
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS:

- 1. IT IS BENT COLD;
- 2. REINFRCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE
- 3. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.

FOUNDATION SHALL BE PROTECTED AGAINST FROST USING RIGID FOAM INSULATION (EPS OR EQUIVALENT). FOR NO FROST PROTECTION OPTION, COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH BASED ON FROST LINE DEPTH.





Digitally DEDWARD WALLS signed by Richard E Walker STATE OF ORIDA CHANGE STATE OF Date: 2024.02.28 14:23:42-05'00'

4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com LORIDA ENGINEERING LL 2403108 PROJECT NO. TUBULAR BUILDING SYSTEMS P.O. BOX. 2254 LAKE CITY, FL 32056 SNIDER 403 SE TEVIS AVE LAKE CITY, FL 32025

JECT ADDRESS

NTS

02/23/2024

SHEET:

CONTRACTOR

DESIGN DATE:

REVISION 2: 02/23/2024

REVISION 1:

DRAWN BY: SCALE:

