GENERAL NOTES

1. ALL REFERENCED STANDARDS REFERRED TO BE ENFORCED AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED.

2. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED AND INCLUDED IN THE PROJECT.

3. IN THE CASE OF CONFLICTS BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

4. THE CONTRACTOR SHALL NOT MAKE DEVIATIONS FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

5. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS/MEASURES TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM DAMAGES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES THAT MAY OCCUR DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS REQUIRED BY HIM TO PERFORM HIS WORK BEFORE STARTING CONSTRUCTION.

7. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, DRIPS, REVEALS, FINISHES, DEPRESSIONS, DOORS, EXPANSION JOINT MATERIAL AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

8. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND ALL OTHER CONTRACT DRAWINGS RELATED TO OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC., WITH THE WORK OF OTHER TRADES.

9. JOB SAFETY, CONSTRUCTION PROCEDURES AND CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

10. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING BUT NOT LIMITED TO CURTAINWALL GLAZING SYSTEMS AND LIGHTGAUGE STEEL FRAMING SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KANSAS AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION.

11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.

FOUNDATION

1. THE ALLOWABLE BEARING PRESSURE USED IN DESIGN OF THE SHALLOW FOUNDATION IS 2,000 PSF ACCORDING TO GEOTECHNICAL REPORT PREPARED BY CAL-TECH TESTING, INC., DATED JULY 24, 2022.

2. SITE PREPARATION NOTES FROM GEOTECH REPORT:
   THE SITE PREPARATION WORK SHOULD CONSIST OF THE COMPLETE REMOVAL OF ANY TOPSOIL AND DEMOLITION OF THE EXISTING FOUNDATIONS AND UNDERGROUND UTILITIES WITH SUBSEQUENT PROOF-ROLLING OF THE RESULTING GRADES WITH SEVERAL PASSES OF A VIBRATORY ROLLER.

   AFTER PROOF-ROLLING, GRADES COULD BE LEVELED AND RAISED, IF REQUIRED, TO THE PROPOSED FINISH FLOOR ELEVATIONS WITH APPROVED FILL PLACED IN MAXIMUM 12-IN LIFTS AND EACH LIFT COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY (ASTM D1557).

   AFTER EXCAVATION OF THE NEW SHELTER FOOTINGS AND TANK CONCRETE PAD, THE SUBGRADE UPPER 12 INCHES SHOULD BE COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY (ASTM D1557).

3. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SUBSURFACE AND EXISTING CONDITIONS BEFORE COMMENCING WORK.

4. ALL CONCRETE SHALL BE CONTROLLED CONCRETE AND ALL CONCRETING PRACTICES SHALL CONFORM WITH ACI-318, "AMERICAN CONCRETE INSTITUTE, BUILDING CODE FOR REINFORCED CONCRETE." CONCRETE DETAILS SHALL BE IN ACCORDANCE WITH ACI-135, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONCRETE TESTS FOR THE PRELIMINARY DESIGN MIX PREPARED BY AN APPROVED LABORATORY MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PLACE NO CONCRETE WITHOUT THE APPROVED DESIGN MIX.

5. UNLESS OTHERWISE NOTED ON PLAN, ALL CONCRETE SHALL BE NORMAL WEIGHT WITH 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

A. FOOTINGS	4,000 PSI
B. CONCRETE SLAB ON GRADE	4,000 PSI

6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARS OR STIRRUPS NECESSARY TO SUPPORT ALL BARS AS REQUIRED TO COMPLETE HIS WORK.

7. UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING BARS AS FOLLOWS:

8. GROUT SHALL BE NON-METALLIC NO SHRINK WITH A MINIMUM STRENGTH OF 5,000 PSI AT 28 DAYS.

CODE/DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - 2020 FLORIDA BUILDING CODE, 7th EDITION

2. WIND LOADS:
   - BASIC DESIGN WIND SPEED = 133 MPH
   - RISK CATEGORY: IV
   - EXPOSURE C
   - INTERNAL PRESSURE COEFFICIENT = +/- 0.18

3. GRAVITY LOADS:
   - SHELTER SELF-WEIGHT
   - GROUND EQUIPMENT INCLUDING BATTERIES
   - GENERATOR

REINFORCEMENT

1. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 (fy=60,000 PSI) ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A-706. THE REINFORCING BARS SUPPLIER SHALL PROVIDE THE ENGINEER WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF THE ASTM.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE MINIMUM SIDE AND END LAPS OF 8".

3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE COR.

5. REINFORCING STEEL DESIGNATED CONTINUOUS SHALL BE LAPPED AS FOLLOWS:
   - CONCRETE REINFORCEMENT: CLASS B TENSION LAP

6. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR PEDESTAL REINFORCING, UNLESS NOTED OTHERWISE.

7. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

   7.1 CONCRETE REINFORCEMENT COVER

EXPOSED TO EARTH OR WEATHER:	
- UNFORMED CAST AGAINST EARTH	3" CLEAR
- FORMED #6 AND LARGER	2" CLEAR
- FORMED #5 AND SMALLER	1-1/2" CLEAR
NOT EXPOSED TO EARTH OR WEATHER:	
- SLABS	3/4" CLEAR

8. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL CONFORM TO ASTM C881-02, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTEED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. REINFORCING INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT COR FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.

2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

   2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:

   - FOUNDATION 4,000 PSI

3. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

4. CONCRETE MIX DESIGN FOR 4000 PSI CONCRETE SHALL BE BASED ON A MAXIMUM AGGREGATE SIZE OF 1 IN. MAXIMUM WATER/CEMENT RATIO OF .58 FOR NON-AIR-ENTRAINED CONCRETE AND .46 FOR AIR-ENTRAINED CONCRETE AND A MAXIMUM SLUMP OF 4 IN. AIR ENTRAINED CONCRETE SHALL BE USED FOR EXTERIOR EXPOSED CONCRETE WITH AN AIR CONTENT BETWEEN 5.5 AND 7.5 PERCENT.

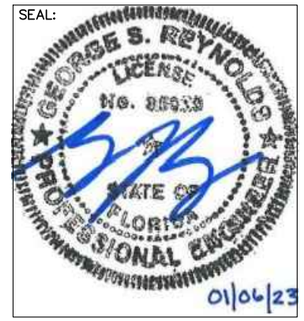
5. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND THE SPECIFICATIONS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM CONCRETE SPECIMENS SHALL BE TAKEN FOR EVERY 100 YARDS OR PORTION THEREOF FOR EACH MIX DESIGN PLACED IN A DAY. CONCRETE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION.

6. UNLESS NOTED OTHERWISE, ALL REINFORCING SHALL BE CONTACT LAP SPLICED WITH A CLASS B SPLICE IN ACCORDANCE WITH ACI 318. FOR BARS WITH MINIMUM COVER AND SPACING GREATER THAN 2db AND 3db RESPECTIVELY, THE MINIMUM SPLICE LENGTH OF NOT LESS THAN 48db (db=BAR DIAMETER) SHALL BE USED. SPLICE LENGTHS SHALL BE INCREASED BY A FACTOR OF 1.3 FOR TOP REINFORCEMENT. LAP WELDED WIRE FABRIC (WWF) ONE SPACE PLUS 2 IN. ON ALL SIDES AT SPLICES.

FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
w | www.fg-inc.net
o | 770.368.1399
f | 770.368.1944

LEVEL-UP TOWERS

SEAL:



PROJECT:

FLORIDA DOT
LAKE CITY DOT

LOCATED AT:
682 NW LAKE JEFFERY ROAD
LAKE CITY, FL 32055

NEW COMM SHELTER INSTALLATION

CARRIER:

FDOT

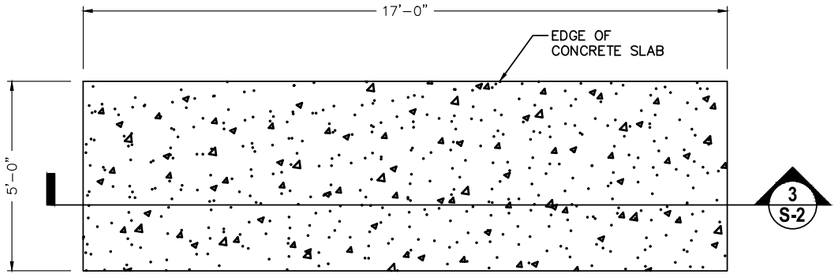
REVISIONS	DATE
1 PER COMMENTS	01/06/23

ISSUED FOR:	FOR CONSTRUCTION
PROJECT MANAGER:	DEJ
DRAWING BY:	GSR
DATE:	11/01/2022
TITLE:	

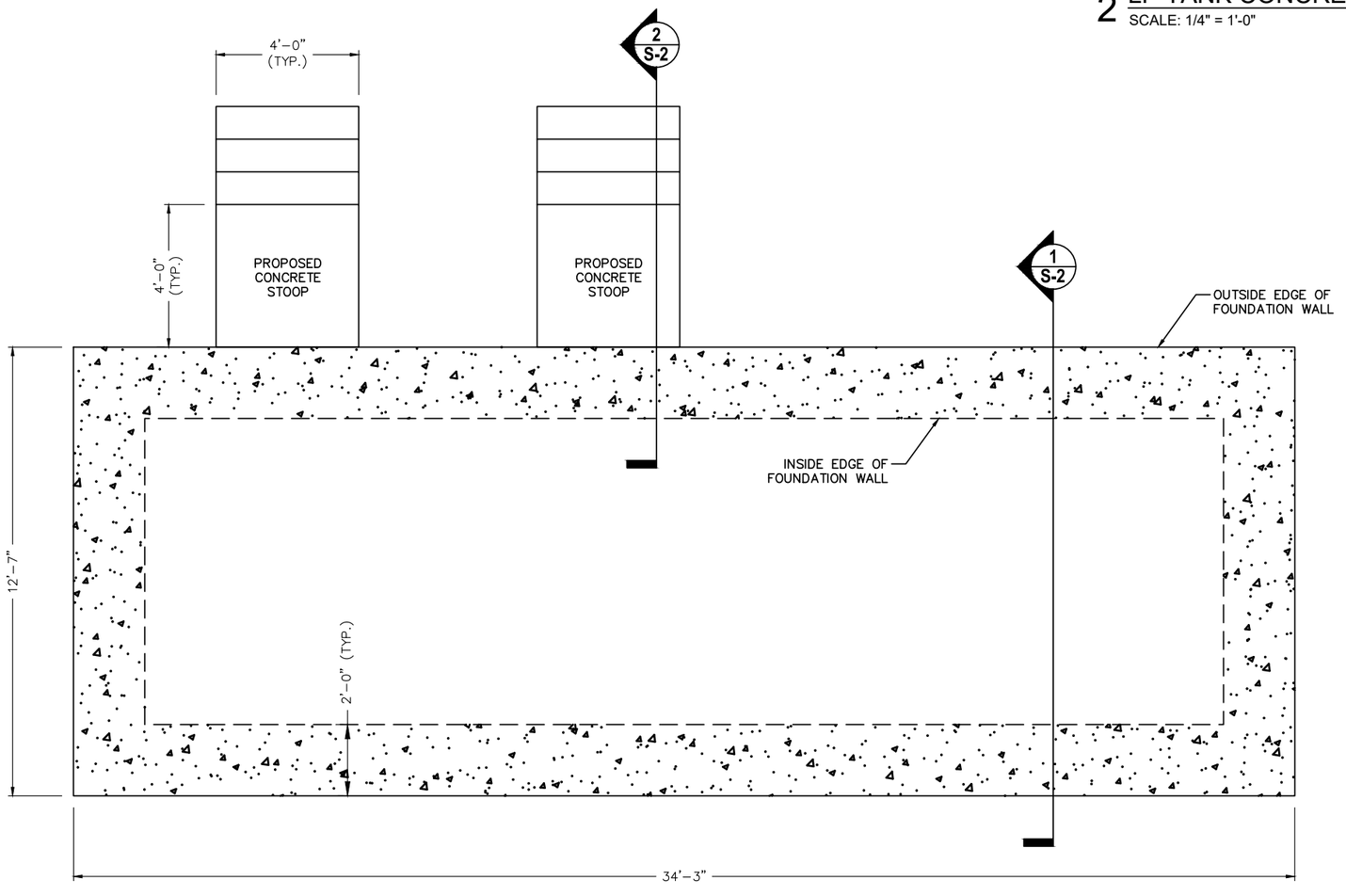
STRUCTURAL NOTES

SHEET NUMBER:	S-0
JOB/FILE NUMBER:	1562.020

SEE CONSTRUCTION DRAWINGS PREPARED BY FORESITE GROUP FOR LAND DEVELOPMENT PLANS AND DETAILS. NO SURVEY WAS PROVIDED FOR THIS DESIGN, IF DISCREPANCIES ARE DISCOVERED IN THE FIELD CONTRACTOR TO CONTACT EOR IMMEDIATELY.



2 LP TANK CONCRETE FOUNDATION
SCALE: 1/4" = 1'-0"



1 SHELTER CONCRETE FOUNDATION
SCALE: 1/4" = 1'-0"

TRUE NORTH

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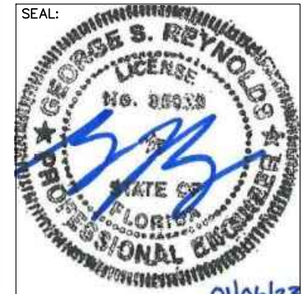
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
w | www.fg-inc.net
o | 770.368.1399
f | 770.368.1944

LEVEL-UP TOWERS

SEAL:



PROJECT:

FLORIDA DOT
LAKE CITY DOT

LOCATED AT:
682 NW LAKE JEFFERY ROAD
LAKE CITY, FL 32055

NEW COMM SHELTER INSTALLATION

CARRIER:

FDOT

REVISIONS	DATE
1 PER COMMENTS	01/06/23

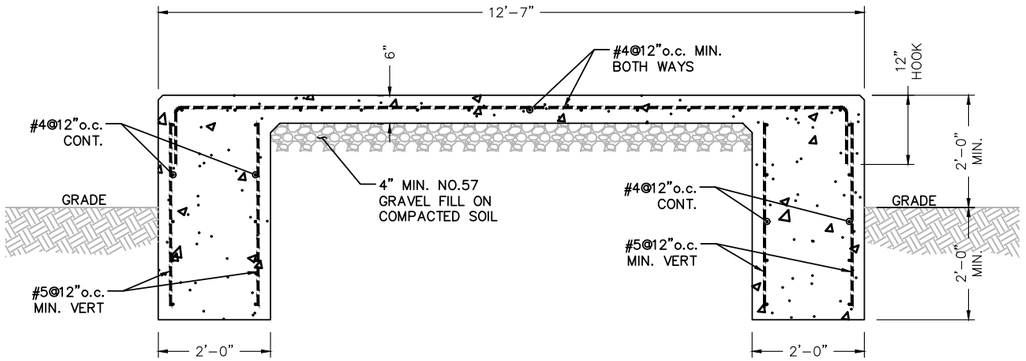
ISSUED FOR:	FOR CONSTRUCTION
PROJECT MANAGER:	DEJ
DRAWING BY:	GSR
DATE:	11/01/2022
TITLE:	

SHELTER FOUNDATION PLAN

SHEET NUMBER: S-1

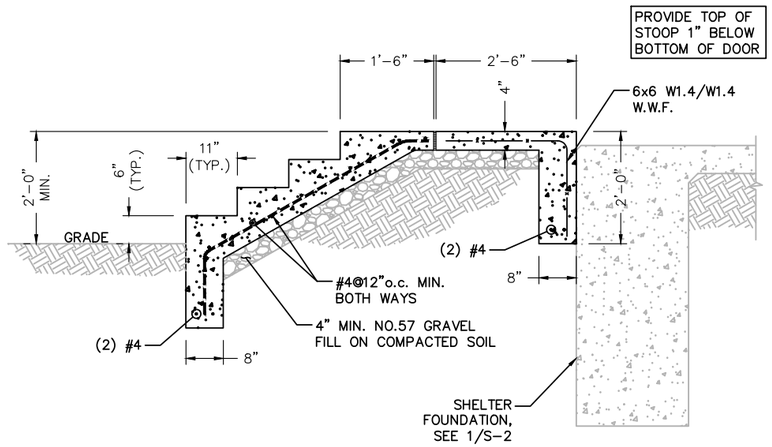
JOB/FILE NUMBER: 1562.020

Drawing name: C:\Users\GREYNO~1\AppData\Local\Temp\AcPublish_15188\Lake City, FL - Foundation Design Drawings - Rev 1.dwg S-1 Jan 06, 2023 10:12am by: greynolds



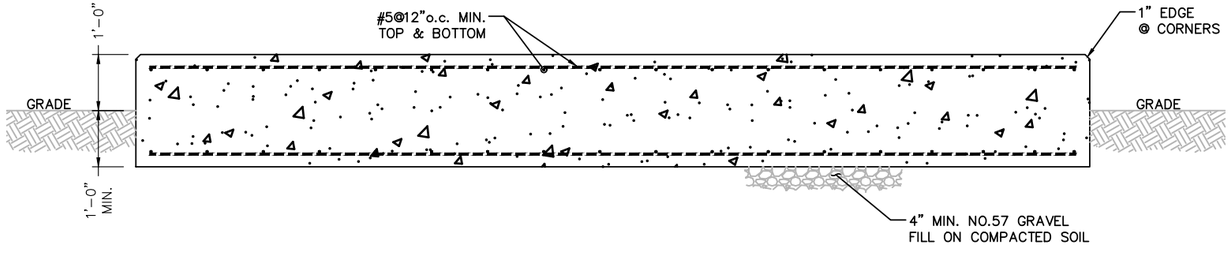
1 SHELTER FOUNDATION SECTION

SCALE: 3/8" = 1'-0"



2 STOOP FOUNDATION SECTION

SCALE: 3/8" = 1'-0"



3 LP TANK FOUNDATION SECTION

SCALE: 3/8" = 1'-0"

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Suite 100
Peachtree Corners, GA 30092
w | www.fg-inc.net
o | 770.368.1399
f | 770.368.1944

LEVEL-UP TOWERS

SEAL:

GEORGE S. REYNOLDS LICENSE No. 86518 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/06/23

PROJECT:

FLORIDA DOT
LAKE CITY DOT

LOCATED AT:
682 NW LAKE JEFFERY ROAD
LAKE CITY, FL 32055

NEW COMM SHELTER INSTALLATION

CARRIER:

FDOT

REVISIONS	DATE
1 PER COMMENTS	01/06/23

ISSUED FOR:	FOR CONSTRUCTION
PROJECT MANAGER:	DEJ
DRAWING BY:	GSR
DATE:	11/01/2022
TITLE:	

SECTIONS AND DETAILS

SHEET NUMBER: S-2

JOB/FILE NUMBER: 1562.020

Drawing name: C:\Users\GREYNO~1\AppData\Local\Temp\AcPublish_15188\Lake City, FL - Foundation Design Drawings - Rev 1.dwg S-2 Jan 06, 2023 10:12am by: greynolds