



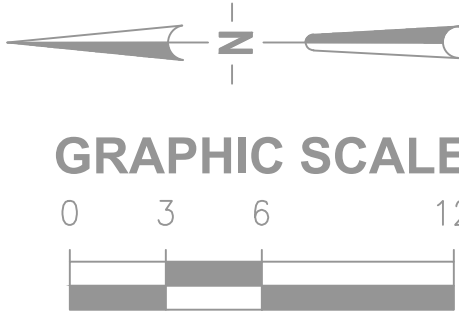
ALUMINUM  
ANCHOR BOLT  
AMERICAN CONCRETE INSTITUTE  
APPROVE, APPROVED  
APPROXIMATE  
AMERICAN SOCIETY OF CIVIL ENGINEERS  
AMERICAN SOCIETY FOR TESTING AND  
MATERIALS  
BUILDING  
BOTTOM  
CAST-IN-PLACE  
CONSTRUCTION JOINT  
CLEARANCE  
COLUMN  
CONNECTION  
CONCRETE  
CONTINUOUS  
CONCRETE REINFORCING STEEL INSTITUTE  
CENTERED  
DETAIL  
DIAMETER  
DOWN  
DRAWING  
EACH  
ELECTRICAL  
ELEVATION  
EQUAL  
EACH WAY  
EXISTING  
FLORIDA BUILDING CODE  
FLORIDA DEPARTMENT  
OF TRANSPORTATION  
FINISHED FLOOR ELEVATION  
FIGURE  
FINISHED  
FLOOR  
FLORIDA PLUMBING CODE  
FOOT  
GALLON  
GALVANIZED  
GRADE  
GALVANIZED STEEL  
HORIZONTAL  
HEADED STUD  
HEIGHT  
INCH  
1,000 POUND  
KIP PER SQUARE INCH  
LINEAR FEET  
MAXIMUM

MECHANICAL  
MANUFACTURER  
MINIMUM  
MISCELLANEOUS  
MILES PER HOUR  
MATERIAL  
NOT APPLICABLE  
NOT AVAILABLE  
NOT IN CONTRACT  
NUMBER  
NOMINAL  
NOT TO SCALE  
NUMBER DESIGNATION  
ON CENTER  
OPPOSITE HAND  
OCCUPATIONAL SAFETY AND HEALTH  
ADMINISTRATION  
POUNDS LINEAL FEET  
POUNDS SQUARE FEET  
POUNDS SQUARE INCH  
RADIUS  
REQUIRED  
SLOPE  
SCHEDULE  
SHEET  
SIMILAR  
ST. JOHN'S RIVER WATER  
MANAGEMENT DISTRICT  
SPECIFICATIONS, SPECIFIED  
SQUARE  
STAINLESS STEEL  
STANDARD  
STEEL  
TOP OF  
TOP AND BOTTOM  
THICK  
TYPICAL  
UNLESS NOTED OTHERWISE  
VERTICAL  
WEIGHT

## FOUNDATION NOTES :

1. REINFORCING BARS SHALL NOT BE WELDED.
2. PROVIDE HOOKS AT DISCONTINUOUS ENDS OF TOP BARS.
3. ONLY CONCRETE ABOVE THE GROUNDLINE SHALL BE FORMED.
4. ALL EXPOSED EDGES OF THE CONCRETE FOUNDATION SHALL BE BEVELED 3/4".
5. ALL BACKFILL MUST BE COMPACTED
6. SLAB ON GRADE FOUNDATIONS TO BE PLACED ON A MINIMUM OF
7. 1'-0" OF COMPACTED STRUCTURAL FILL. THOROUGHLY COMPACT THE
8. SELECT GRANULAR FILL TO THE ACCEPTANCE OF THE OWNER.
9. SHORING MAY BE NECESSARY FOR FOOTING CONSTRUCTION IF HORIZONTAL CLEARANCE TO EXISTING
10. STRUCTURES DOES NOT ALLOW FOR A 2:1 EXCAVATION SLOPE TO THE BOTTOM OF FOOTING ELEVATION.
11. POLE FOUNDATIONS ARE DESIGNED AND ASSUMED TO BE CAST-IN-PLACE CONCRETE DRILLED SHAFT, DEEP
12. FOUNDATIONS.
13. VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER OF
14. ANY DISCREPANCIES OR INCONSISTENCIES.
15. DO NOT SCALE DRAWINGS.
16. THE ELEVATIONS ON THE SURVEY ARE GIVEN FOR THE TOP OF ROCK, NOT SOIL. THERE IS TYPICALLY 4" TO
17. 6" OF ROCK ON TOP OF THE SOIL. TOP OF FOUNDATIONS SHALL BE AT EL. 105.4 WITH TOP OF ROCK 4"
18. BELOW THE TOP OF FOUNDATION.
19. THE POLE FOUNDATION CONTRACTOR SHALL HAVE BEEN ENGAGED IN THE SUCCESSFUL INSTALLATION OF DEEP
20. FOUNDATIONS FOR AT LEAST THREE YEARS.
21. WIND LOADS CALCULATION ARE IN ACCORDANCE WITH ASCE 7-05. THE WIND VELOCITY: 110 MPH,
22. IMPORTANCE FACTOR I=1.15 AND EXPOSURE "C"
23. COMPACT BEARING SOIL TO A MINIMUM OF 95% FOR SLAB ON GRADE.
24. REMOVE FREE STANDING WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE. POLE FOUNDATION
25. CONCRETE SHALL BE PLACED IN SUCH A MANNER AS TO ENSURE THE EXCLUSION OF ANY FOREIGN MATTER
26. AND TO SECURE A FULL-SIZED SHAFT. CONCRETE SHALL NOT BE PLACED THROUGH WATER EXCEPT WHERE A
27. TREMIE OR OTHER APPROVED METHOD IS USED.
28. IF CASING WILL BE SELECTED, CYLINDER CASING SHALL BE OF SUFFICIENT STRENGTH AND RIGIDITY TO
29. WITHSTAND ALL INSTALLATION STRESSES, TO PREVENT COLLAPSE DUE TO SOIL OR HYDROSTATIC PRESSURE.
30. THE MAXIMUM PERMISSIBLE VARIATION OF THE CENTER OF PILE FROM THE REQUIRED LOCATION IS 2
31. INCHES AT THE GROUND SURFACE. NO PILE SHALL BE OUT OF REQUIRED AXIAL ALIGNMENT BY MORE THAN 2
32. PERCENT.
33. THE CONTRACTOR MAY CHANGE THE DESIGNED DIAMETER AND LENGTH OF THE DEEP FOUNDATION DURING TO
34. COMPENSATE FOR UNANTICIPATED SOIL CONDITION. REVIEW AND WRITTEN APPROVAL SHALL BE REQUIRED
35. PRIOR TO ANY CHANGES.
36. IN CASE THE FOUNDATION WILL BE INSTALLED BY THE "WET CONSTRUCTION METHOD," FDOT SUPPLEMENTAL
37. SPECIFICATION 455 SHALL BE CONFIRMED.

- | REBAR<br>SIZE | Ld (CLASS A)       |      | Ld (CLASS B)       |      | STD. HOOK LENGTH |                 |                 |                 |
|---------------|--------------------|------|--------------------|------|------------------|-----------------|-----------------|-----------------|
|               | F <sub>c</sub> PSI |      | F <sub>c</sub> PSI |      | 90°              |                 | 180°            |                 |
|               | 3000               | 4000 | 3000               | 4000 | L <sub>sh</sub>  | L <sub>sh</sub> | L <sub>sh</sub> | L <sub>sh</sub> |
| #3            | 17"                | 15"  | 22"                | 20"  | 6"               | 6"              | 6"              | 4"              |
| #4            | 22"                | 19"  | 27"                | 25"  | 8"               | 8"              | 8"              | 4"              |
| #5            | 28"                | 24"  | 37"                | 32"  | 10"              | 10"             | 10"             | 5"              |
| #6            | 33"                | 29"  | 43"                | 38"  | 12"              | 12"             | 12"             | 6"              |
| #7            | 48"                | 42"  | 63"                | 55"  | 14"              | 14"             | 14"             | 7"              |
| #8            | 55"                | 48"  | 72"                | 63"  | 16"              | 15"             | 16"             | 8"              |
| #9            | 62"                | 54"  | 81"                | 71"  | 18"              | 19"             | 18"             | 11"             |
| #10           | 70"                | 61"  | 91"                | 80"  | 20"              | 21"             | 20"             | 12"             |
| #11           | 73"                | 67"  | 95"                | 87"  | 22"              | 23"             | 22"             | 13"             |



# WAUCHULA SUBSTATION EXPANSION WAUCHULA, FLORIDA

## FOUNDATION PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	AUG 2009	07602-032-01
WENJUN LI	SCALE	DWG. NO.
P.E. # 56104	1-1/2"-1'	S-01

LTR.	DATE	REVISIONS	BY APPRD.

DESIGNED	RDH
DRAWN	RDH
CHECKED	WL

