

IRRIGATION NOTES

- 1. This schematic irrigation plan serves primarily as I guide. The Contractor shall be entirely responsible for proper coverage and operation of the systems, including changes from the plan as necessary to adjust for actual site conditions.
- 2. The Contractor shall be responsible for providing II labor, materials, and accessories required for complete irrigation systems meeting the performance requirements outlined herein.
- 3. All work shall be installed in accordance with theregulations of the local, county, or other governing authorities. Fees for all permts, inspections, and impact fees required shall be included as work required.
- 4. The water source shall be well. . Design data shd be verified by the Contractor prior to installation.
- 5. A rain sensor device, Mini-Clik II, or approved eqal, shall be installed for each controller installed.
- 6. All remote control valves, gate valves, ball valves hose bibs and wire splices shall be installed in a suitable Ametek—type valve box of proper size as required for easy access to the valve. Valve boxes shall have a sump of 1 cf gravel. Valve boxes shall be set flush and sloped with the surpunding grade.
- 7. All PVC pipe in the system less than 2" O.D. exept risers, shall be Class 160 PSI Polyvinyl Chloride solvent weld pipe conforming to the ASTM—D2466, Type 1, requirements, NSF approved.
- 8. All PVC pipe in the system greater or equal to 2" O.D. and fittings shall be Schedule 40, Type 1, NSF approved conforming to the ASTM—D2466 requirements.
- 9. All wiring, if required, shall be U.L. U.F. wiring. , separate power wire shall be installed from the controller to each individual vove. Wiring shall be installed with main lines where possible; when not, it shall be installed in conduit. Waterproof wire connectors shall be used for controller wirin. Provide pressure compensating devices as necessry to reduce misting.
- 10. Verify the presence of all sleeving before commecing work. Where piping must pass under existing concrete or pavement, it shal be jacked or jetted where possible. Only if impossible to get in place without cutting pavement, permission will be given by the Owner to cut paving. If this is necessary, all cutting and replacing of the paving to match the existing shall be included under this section of the specifications.
- 11. All PVC piping and wiring shall be installed in the trenches with a minimum of 12" of cover and a maximum depth of 24", except there specific permission is obtained from the Landscape Architect and/or Ovner for less cover due to existing conditions. Where necessary because oflandscaping, cover shall be as deep as required.
- 12. All flex pipe shall be buried to a depth of at lest 4" (or covered with 3" of mulch) except where the tubing daylights over newly planted rootballs.
- 13. All emitters and flood bubblers shall be installed at the rootball and be minimally visable above the mulch.
- 14. The Contractor shall warrant the installation wormanship for a period of one year from date of job completion and retainage release. The Contractor shall further see to the fulfillment of all manufacturer's warraties and shall provide an Owner's Manuals. A reproducible as—built copied from the original showing all dimensioned system components shall be required for final jo acceptance.
- 15. Irrigation System to include backflow device and to be designed at 100% coverage using meter water supply. Rainsensor to be instlled at controller.

Table 1. Watering schedule for newly planted trees aid shrubs

Weeks after planting: Watering frequency:
1-2 Daily
3-12 Every 2-3 days
Until established* Weekly

* See Table 2 for tree establishment time. Shrubs stablish in 1-2 years.

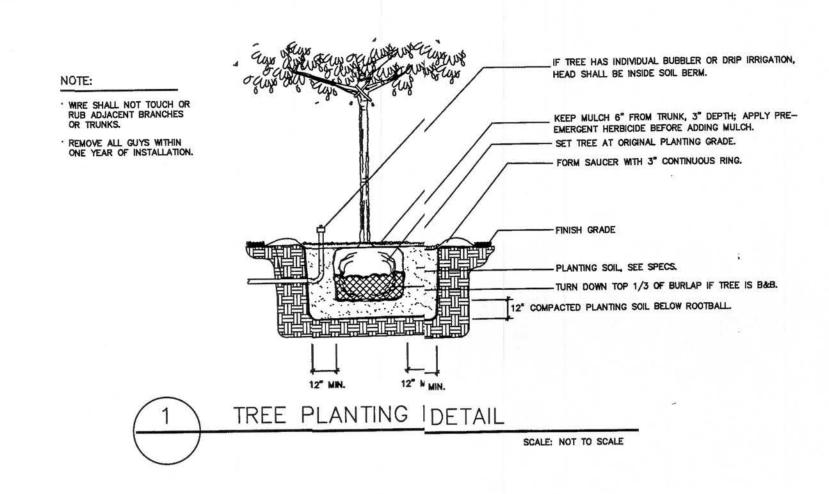
Newly planted shrubs are considered established who their root spread equals the spread of the above—ground canopy.

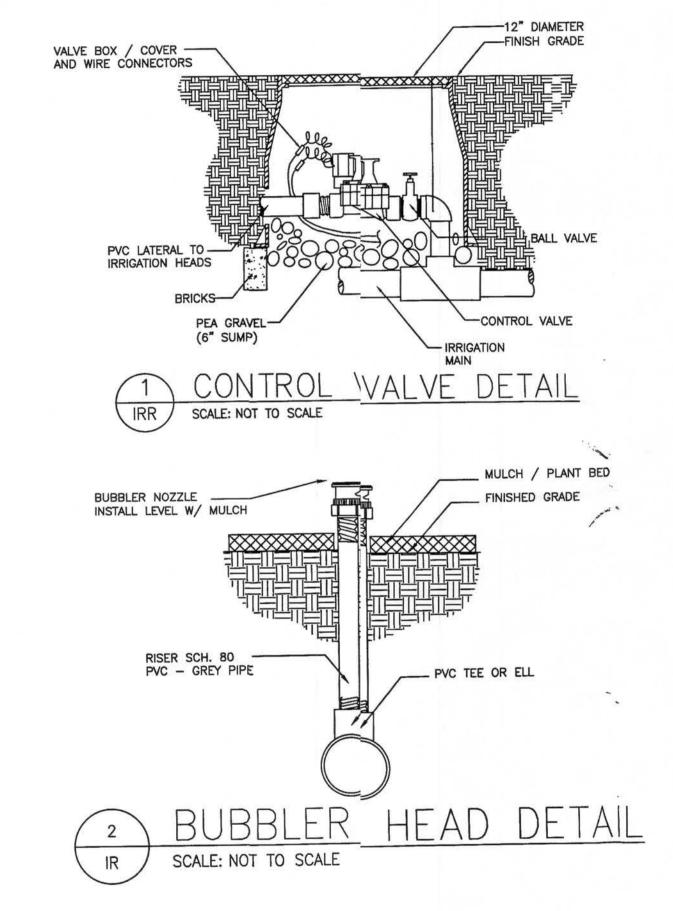
Establishment times for trees increases with tree siz. Trunk caliper at planting time can be used to determine the time it takes for roots to establish (Table 2).

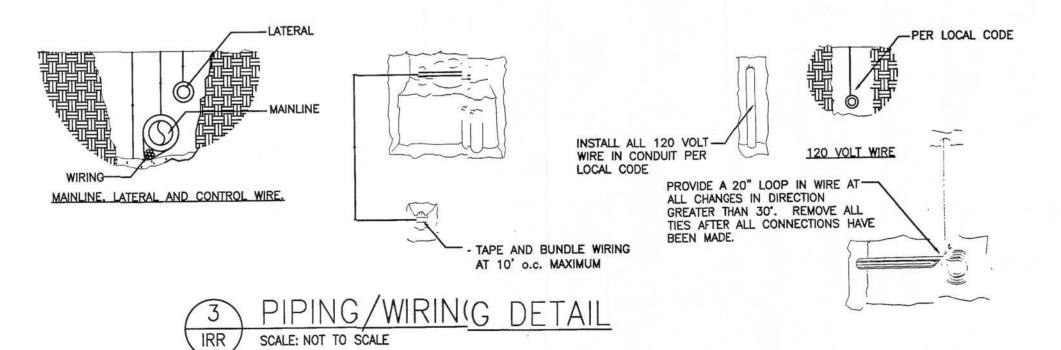
Table 2. Establishment time and watering volume for newly planted trees.

Caliper (inches)	Root establishm	ent time for tres (yed	ars) Water applied
during each			
irrigation (ga	llons)		1-1.5
1	1.5		
2	3		2-3
7	4.5		3-4.5
3	4.5		4-6
4	6		5-7.5
5	7.5		
6	9		6-9

*apply 1-1 1/2 gallons per inch of stem caliper at ach watering







LANDSCAPE NOTES

- 1. All plants shall be Florida No. 1 or better, as outlined under <u>Grades and Standards for Nursery Plants</u>, Division of Plant Industries, State of Florida, latest edition.
- 2. All work shall be performed in accordance with standard and accepted nursery practices in a workmanlike manner.
- 3. The Landscape Contractor shall be responsible for finish grading all areas of the site. Rough grade will be within 2" of finish grade. The Landscape Contractor shall be responsible for any grade disturbed by his work.
- 4. The Landscape Contractor shall be responsible for the thorough removal of existing weeds and grass in the areas to be planted, including application(s) of appropriate herbicides before and after plant installation.
- 5. Soil used for planting shall consist of two parts of the existing soil and one part domestic peat moss (or sandy fill in heavy soils), mixed with two lbs. fertilizer per cubic yard. Fertilizer shall be SLOW RELEASE for new plantings.
- 6. Terra—Sorb, or approved equal, shall be incorporated into the planting soil of all trees in <u>sandy soils</u> only at the following rates:

15 gallon containers = one (3 oz.) Handy Pac
30 gallon containers = two (3 oz.) Handy Pacs
Up to 3" caliper = one (3 oz.) Handy Pac
4" to 5" caliper = two (3 oz.) Handy Pacs
Broadcast 1/2 throughout the planting pit; mix 1/2 with backfill.

All plant beds shall be top-dressed with 3" of pine bark nuggets.

- 7. The Landscape Architect reserves the right to field locate or review flagged locations of any or all plant material.
- 8. All balled and burlapped trees shall be hardened—off at the supplier's for a minimum of 30 days prior to shipping. All suppliers must be approved by the Landscape Architect prior to delivery and installation of the trees; any tree which shows signs of stress shall be replaced immediately at no charge to the Owner.
- 9. All trees will be staked per detail sheet or by another method approved by the Landscape Architect. Mulched tree rings shall encompass guys.
- 10. No substitutions shall be permitted without prior approval from the Landscape Architect.
- 11. Guaranty (from time of job completion and retainage release):

Trees and shrubs = 1 year

12. MAINTENANCE — remove tree guys after one year, inspect trees & shrubs for viability, replace any dead or diseased trees and shrubs.

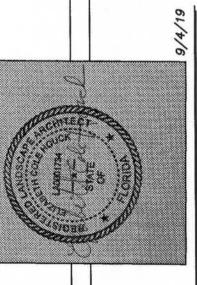
MAINTENANCE NOTES

- 1. IRRIGATION SYSTEM SHALL BE CHECKED FOR COVERAGE, ADJUSTED AND REPAIRED FOR OPERATION PER WEEK DURING DRY PERIODS, MAY BE CHECKED PER MONTH DURING RAINY SEASON. RESETTING THE SCHEDULE TO BE PER SEASON ACCORDING TO THE WATER MANAGEMENT WATERING GUIDELINES.
- 2. PLANT BEDS AND TREE RINGS TO BE RE-MULCHED ONCE PER YEAR, TAKING CARE TO REMOVE OLD MULCH, NOT TO ADD MULCH WITHIN 6 INCHES OF THE TRUNK BASE FLARE. TRIM DEAD BRANCHES BY ARBORIST, REMOVE DEAD SHRUB BRANCHES AND PRUNE FLOWERING SHRUBS PER RECOMMENDED HORTICULTURAL PRACTICES. MECHANICALLY PULL WEEDS FROM BEDS, NO CHEMICAL SPRAYS.
- 3. FERTILIZE TREES ONCE YEAR, IN SPRING, WITH SLOW RELEASE FERTILIZER AT RECOMMENDED AMOUNT AND APPLICATION BY MANUFACTURER AND TREE SPECIES.
- 4. FERTILIZE SHRUBS ONCE YEAR, IN SPRING, WITH SLOW RELEASE FERTILIZER AT RECOMMENDED AMOUNT AND APPLICATION BY MANUFACTURER AND SPECIES.
- 5. SOD IS ARGENTINE BAHIA, NO FERTILIZATION IS REQUIRED. MOW HEIGHT TO 3" MIN.

ATE: 9/4/19
RAWN BY:
IZABETH C. HOUCK
HECKED BY:
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REVISIONS:



ELIZABETH C. HOUCK, P.L.

DETAIL PLAN
REPARED FOR: CHURCH OF GOD BY FAITH, INC.
E CURT COURT - PARCEL: 28-35-17-05617-00

SHEET 5 OF 5

DETAIL PLAN

BOUNDARY AND TOP)GRAPHIC SURVEY

TAX PARCEL #28-35-17-05617-000 172 N.E. CULT COURT LAKE CITY, L 32055

SECTION 28, TOWNSHIP 03 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA

LAND DESCRIPTION: (OFFICIAL RECORDS BOOK 931,PAGE 2389) LOT FOUR (4), E.L. PATTERSON'S SUBDIVISION, IN THE SCTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 28, TOWNSHIP 3 SOUTH, RANGE 17 EAST, A SUBIVISION RECORDED IN PLAT BOOK 2, PAGE 14, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA

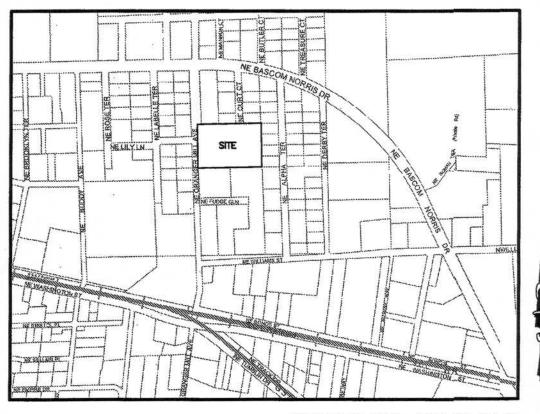
SURVEYOR'S NOTES:

1. SURVEY BASED ON MONUMENTATION FOUND AND ACCEPED AND ON "E.L. PATTERSON'S SUBDIVISION" AS RECORDED IN PLAT BOOK 2, PAGE 14 OF THE PUBLIC REORDS OF ALACHUA COUNTY, FLORIDA. 2. BEARINGS ARE BASED ON AN ASSUMED CALL OF SOUTI 88°25'00" WEST FOR THE NORTH LINE OF THE EAST 1/2 OF LOT 3 OF E.L. PATTERSON'S SUBDIVISION.

- 3. VERTICAL DATUM IS BASED ON N.A.V.D. 1988.
- 4. LAND DESCRIPTION OF RECORD AS PER OFFICIAL RECODS BOOK 931, PAGE 2389.
- 5. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLES SIGNED AND SEALED BY THE LAND SURVEYOR
- 6. UNLESS NOTED, NO UNDERGROUND INSTALLATIONS OR IPROVEMENTS WERE LOCATED FOR THIS SURVEY. 7. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, IGHT-OF-WAYS, AND/OR OWNERSHIP WERE
- FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN. 8. ONLY ABOVE GROUND UTILITIES WERE LOCATED FOR TH SURVEY.
- 9. NORTH ARROW IS BASED ON BEARING STRUCTURE.
- 10. CERTIFICATION IS NOT TRANSFERABLE.
- 11. THE PURPOSE OF THIS SURVEY IS TO SHOW BOUNDAR AND TOPOGRAPHIC INFORMATION AND
- 12. FENCES, SYMBOLS, MONUMENTATION AND UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES ONLY AND MAY NOT BE SHOWN TO SCALE.
- 13. THIS SURVEY COMPLIES WITH THE FLORIDA STANDARDSDF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 5-17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES.

FLOOD ZONE:

IT IS THE OPINION OF THIS LAND SURVEYOR BASED ON ANINTERPRETATION OF F.I.R.M. PANEL No. 305 OF 552, COMMUNITY PANEL No. "120070 0305 C" THAT THIS PROPRTY IS LOCATED IN FLOOD ZONE "X", (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOD PLAIN), MAP EFFECTIVE DATE FEBRUARY 4, 2009.



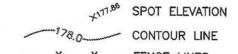
LOCATION MAP: NOT TO SCLE

LEGEND:

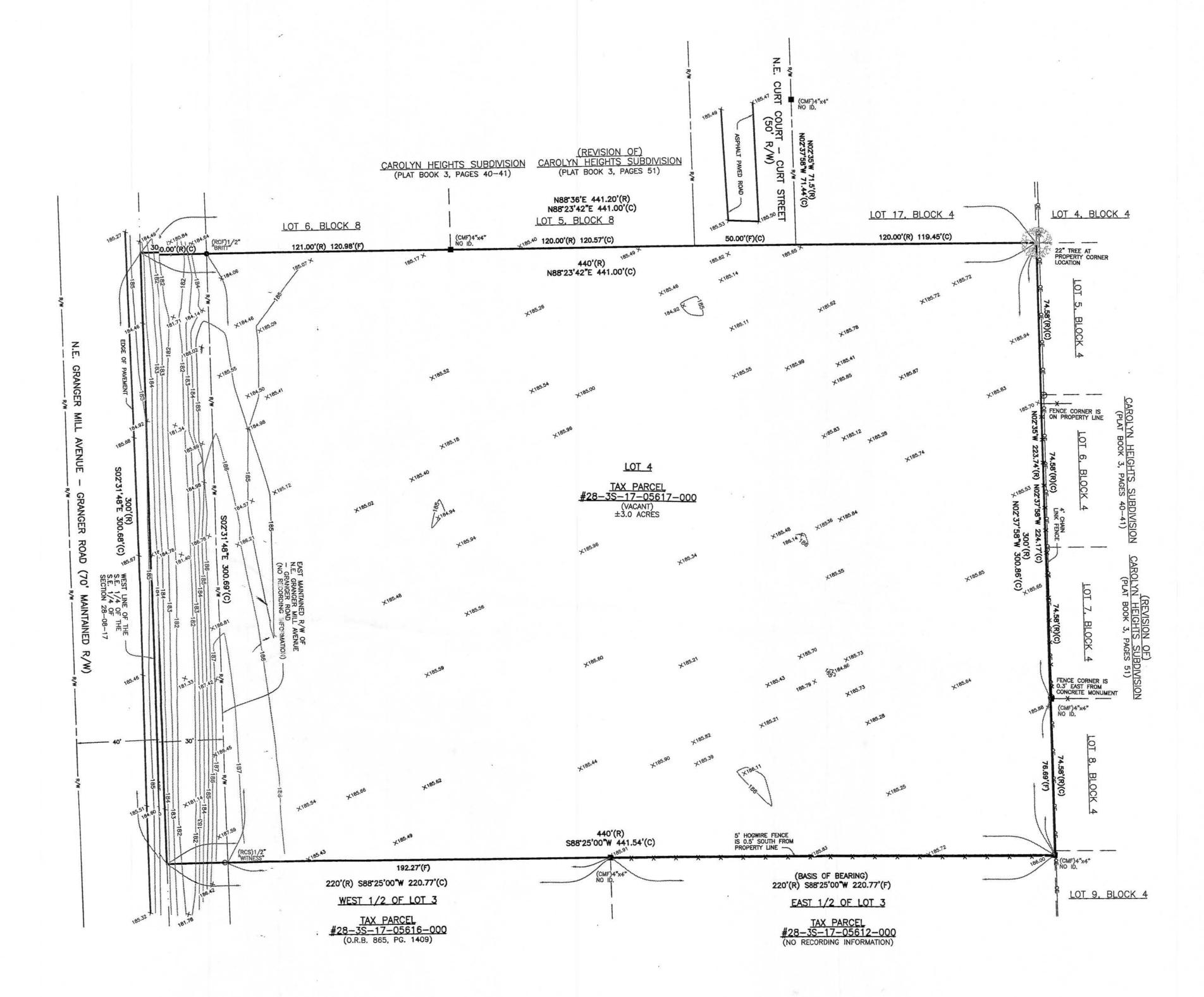
- (R) RECORD MEASUREMENT
- (F) FIELD MEASUREMENT
- (C) COMPUTED MEASUREMENT ID. IDENTIFICATION
- R/W RIGHT-OF-WAY O.R.B. OFFICIAL RECORDS BOOK
- PG. PAGE O (RCS) REBAR & CAP SET "WITNESS"
- (CMF) CONCRETE MONUMENT FOUND



∅ WOOD POWER POLE

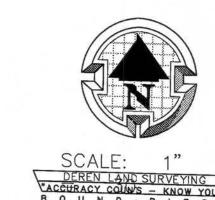


CONTOUR LINE OVERHEAD ELECTRIC LINES



CERTIFY SURVEY TO: CHURCH OF GOD BY FAITH, INC.

> DATE OF FIELD WORK: 10-19-2016 DATE OF DRAWING: 10-25-2016



SCALE: 1" = 30PAGE 1 OF 1 DATE: 10-25-2016 BAR IS ONE INCH ON ORIGINAL DRAWING 0 _____1" PROFESSIONAL SURVEYOR & MAPPER FLA.CERT. 5339 IF NOT ONE INCH ON THIS SHEET, ADJUST COPYRIGHT © DEREN LAND SURVEYING, LLC. LB No. 7996 SCALES ACCORDINGLY

KRIS ANN GATH P.S.M. 4605 N.W. 6TH STREET, SUITE H GAINESVILLE, FLORIDA 32609

PHONE: (352) 331-0010 PHONE: (352) 336-3363 LAND SURVEYING FAX: (352) 336-1084 DERENLANDSURVEYING.COM

DATE OF SIGNATURE: 10-26-2016