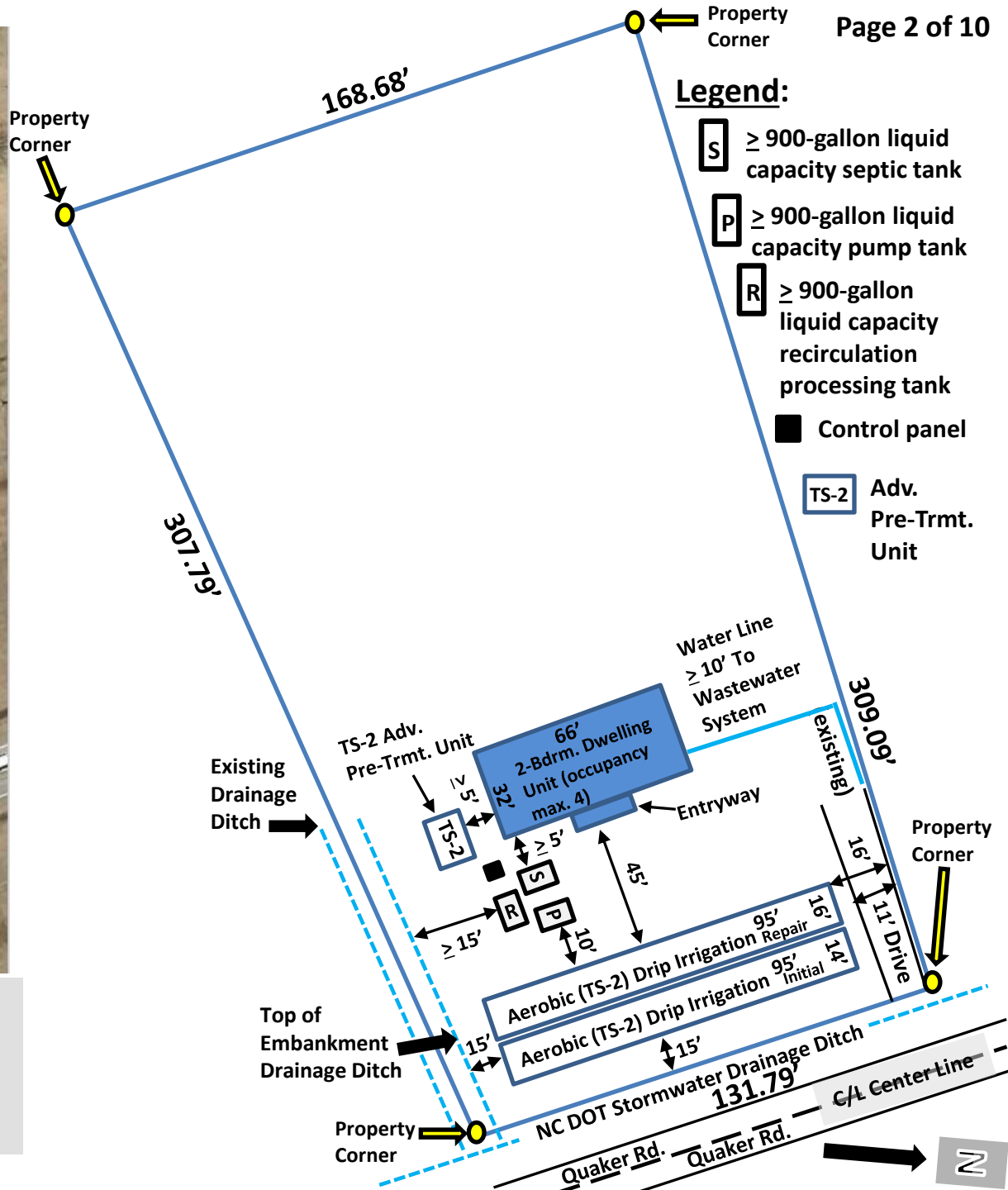






Prepared by T.Crissman, Reg. Soil Scientist, OSWP Branch, Env. Health Sect., Div. Public Health, NCDHHS. **Not a permit.** Site visit/evaluation conducted June 5, 2017. The Larry Ball (owner) property located at 5260 Quaker Rd., Cross Roads Twsp., Wilson County, (Parcel PIN 3700-06-4046.000; 1.06-acres; Camelot Residential Subdivision, Lot 9, Section 4)

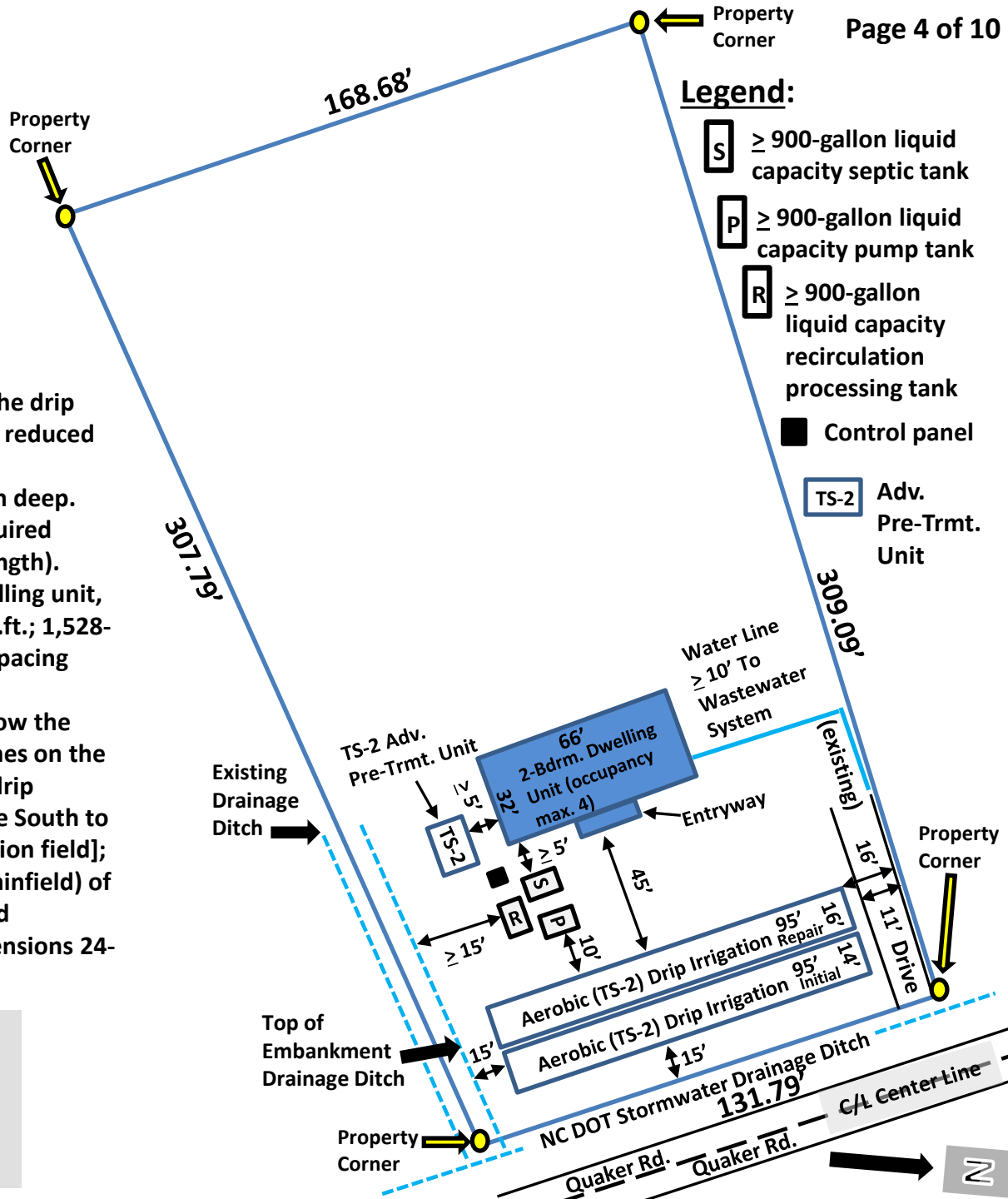


Advisement: Tank(s) and advanced pre-treatment components buried below the natural soil surface require analysis by a N.C. Professional Engineer to determine if anti-buoyancy measures are required in the construction of the wastewater system due to the shallow soil wetness condition or SWC (i.e. less than 12-inches below the natural soil surface based on soil colors of chroma 2 or less, Munsell Color Chart) encountered at the site.

Design Notes & Calculations:

- TS-2 Advanced Pre-treatment required prior to the drip irrigation drainfield (required in order to apply a reduced horizontal setback to existing drainage devices);
- Trench width = each trench 1-inch wide by 1-inch deep. Eight (8) drip tubing trenches (laterals/runs) required spaced 2-foot on-center. Each trench 95-foot (length). Design sewage flow 240-gpd. (a 2-bedroom dwelling unit, maximum of 4-occupants). LTAR = 0.157-gpd/sq.ft.; 1,528-sq.ft.; 760-linear ft.; 2-ft. on-center drip tubing spacing (pressure compensating emitters);
- Trench depth for drip tubing = 3- to 6-inches below the natural soil surface long-axis of drainfield [3-inches on the North to Northwest end of the proposed initial drip irrigation field AND ~ 6-inches (maximum) on the South to Southeast end of the proposed initial drip irrigation field];
- Requires 6- to 9-inches (crowned at center of drainfield) of suitable soil cover material atop nitrification field extending 5-feet laterally beyond trenches (dimensions 24-foot width by 105-foot length).

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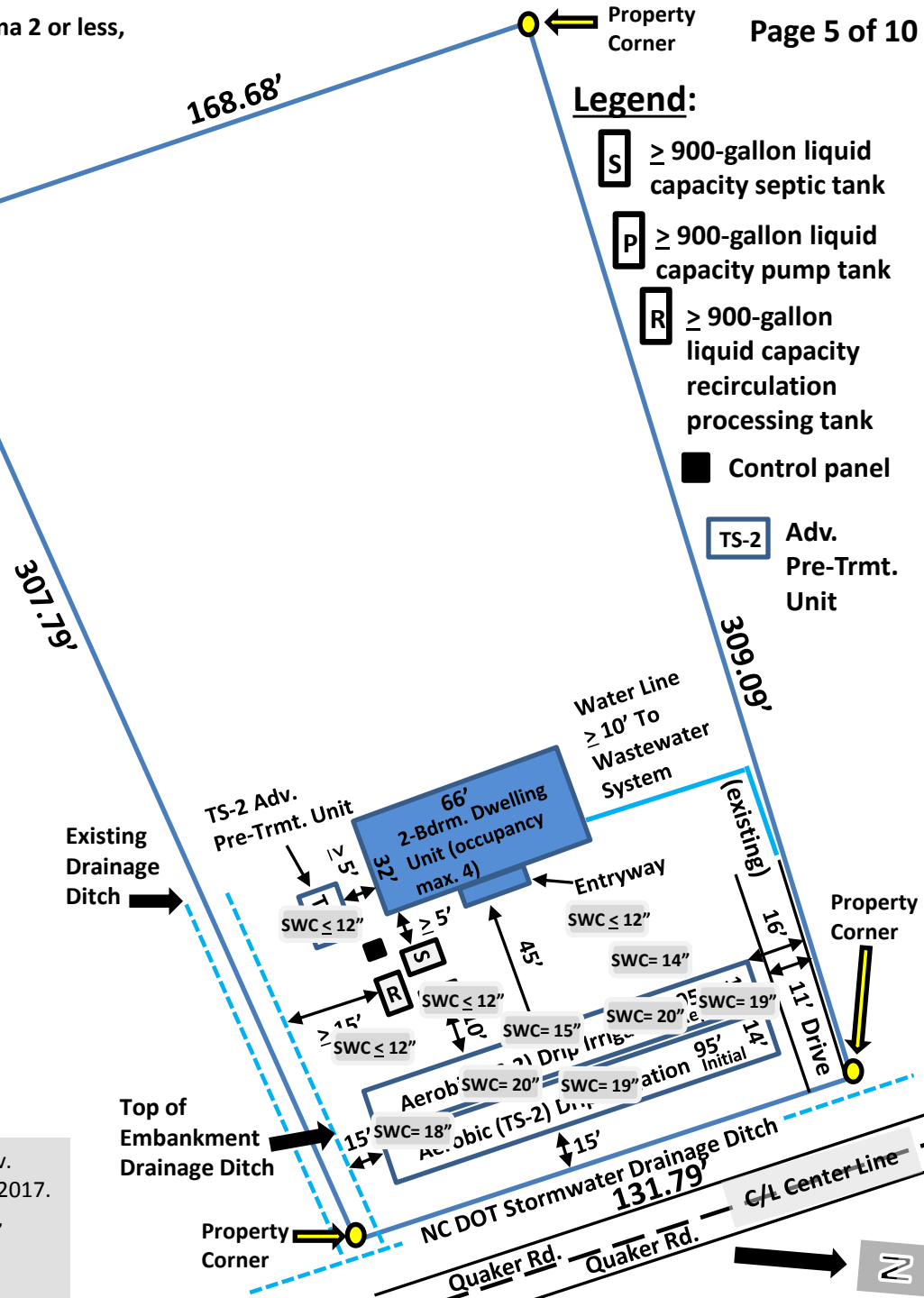
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- Requires 6- to 9-inches (crowned at center of drainfield) of suitable soil cover material atop nitrification field extending 5- feet laterally beyond trenches (dimensions 24-feet width by 105-foot length).

Legend:

- S** ≥ 900-gallon liquid capacity septic tank
- P** ≥ 900-gallon liquid capacity pump tank
- R** ≥ 900-gallon liquid capacity recirculation processing tank
- Control panel
- TS-2** Adv. Pre-Trmt. Unit

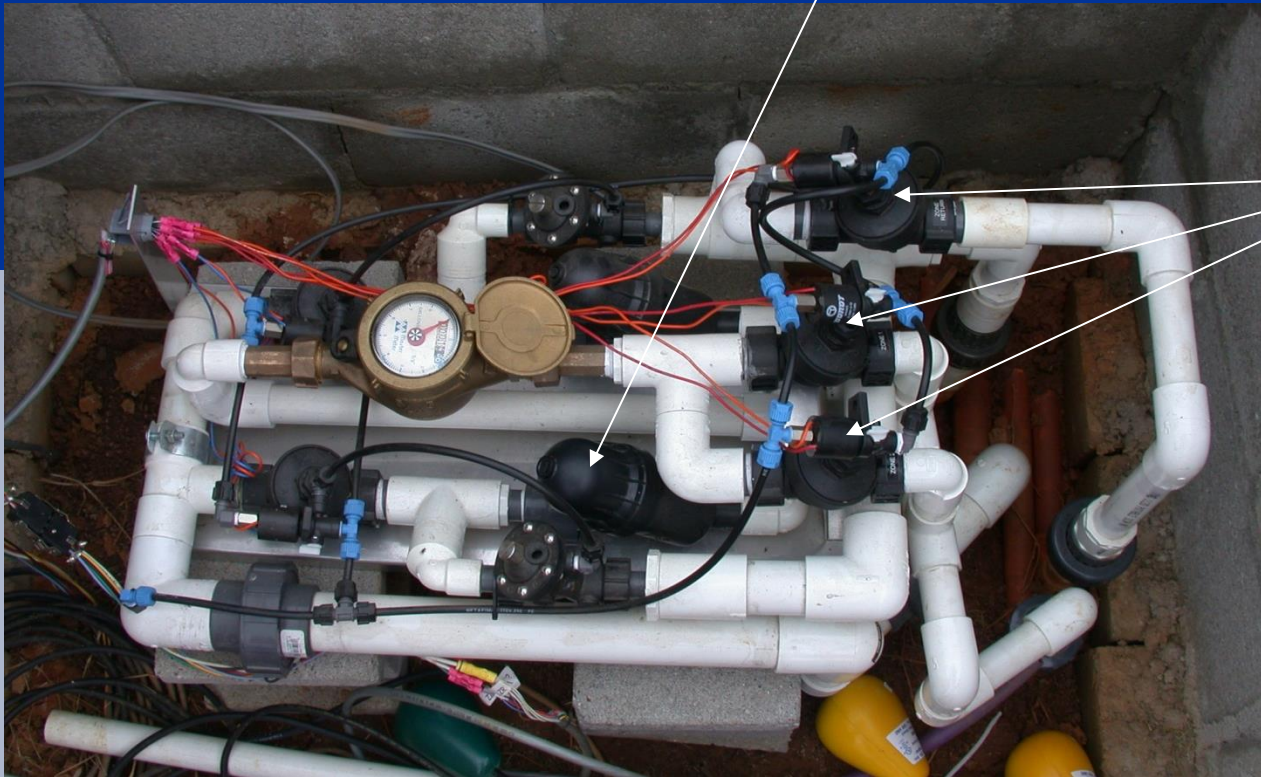


Headworks

Drip Irrigation Hydraulic Headworks Unit (electrical connections, disc filters for emitters, automatic control valves, solenoid diaphragm valves, flow meter, etc.)- invert of the unit shall be located at least 12-inches above the seasonal high soil wetness condition (SWC; based on soil colors of chroma 2 or less, Munsell Color Chart) to prevent submergence of the components (not designed for submergence) and allow drainage from the unit. Suitable soil cover material can be added to the site to create a mound for placement of the unit to achieve the proper vertical separation distance if the SWC < 12”.

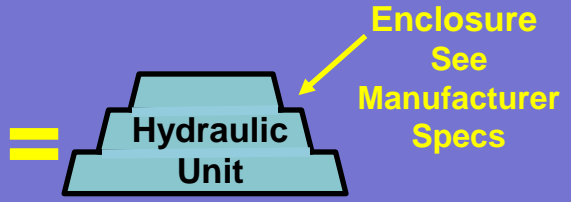
Emitter protection filter

Zone valves

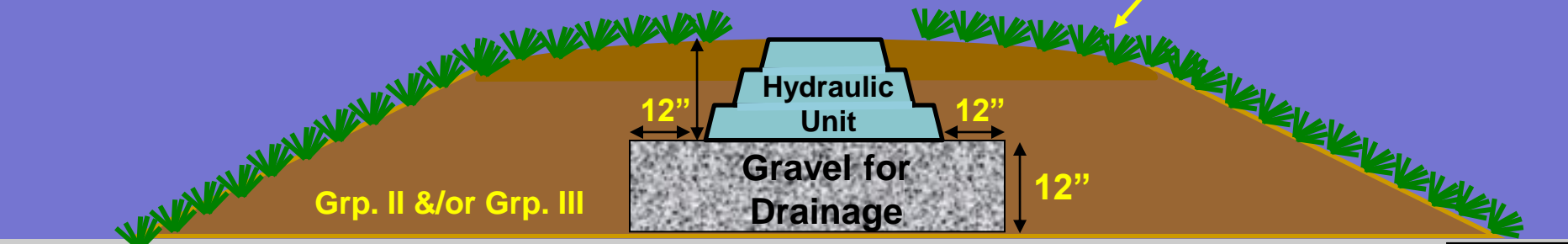


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Cross-Sectional View



Stabilize mound w/suitable, non-invasive vegetation (i.e. grass/sod/turf)

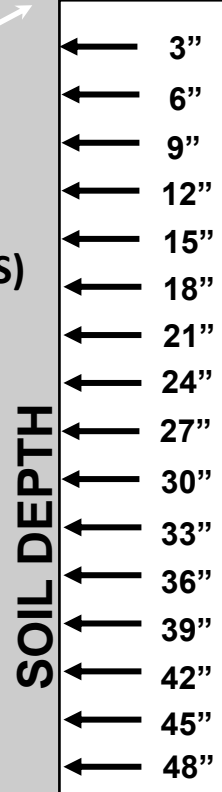


Maintain at least a 12-inch vertical separation distance to SWC. Add soil cover material to achieve required separation distance.

SWC

< 12-inches below Natural Soil Surface (NSS)

Soil

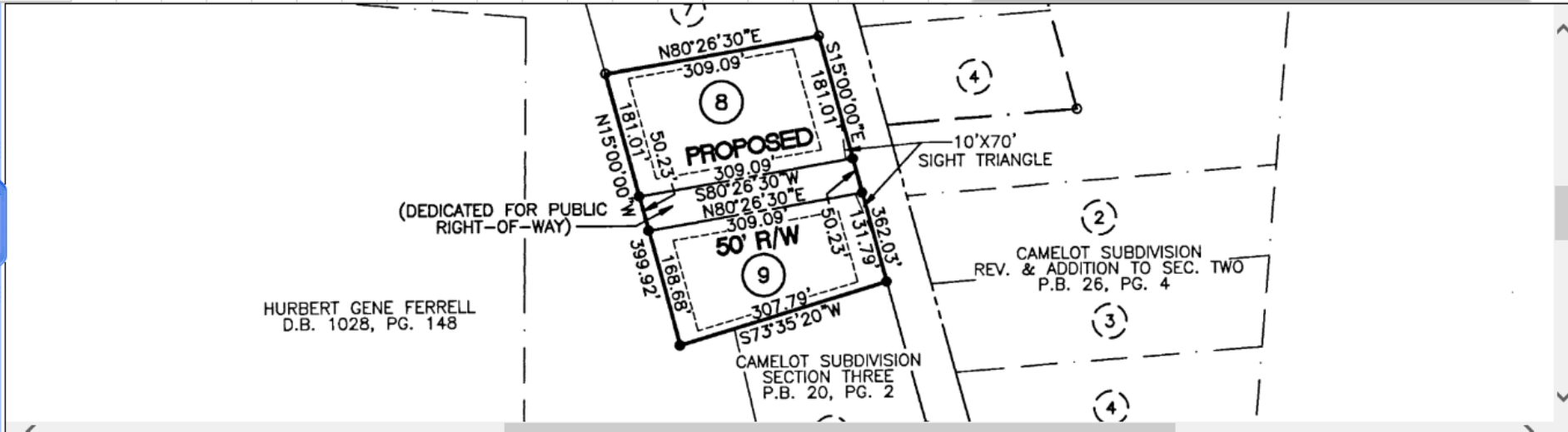


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Select	Index	File Date	Married Date	Kind	Grantors	Grantees	Description	File Number	Book/Page	Ref	Amount	Images
1	<input type="checkbox"/>	CRP	05/22/1998									
				PLAT	CAMELOT SUBDIVISION SECTION FOUR	(+)	[PLAT]		27 / 75			1 page

Hide Toolbar



HURBERT GENE FERRELL
D.B. 1028, PG. 148

I, NORME L. SUTTON, certify that this plan was drawn from the information from an actual survey made upon my own personal (hand) observation recorded in Book 112, Page 147; that the boundaries and survey are correctly indicated as shown from information found in Book 112, Page 147; that the title of section is correct; I BELIEVE that this plat was prepared in accordance with the statute so provided, without any original provision, registration and was the 1st day of May, A.D. 1928.

[Signature]
 NORME L. SUTTON
 L-3429

State of North Carolina
 County of Wake
 I, *[Signature]* Clerk of Wake County, certify that the roads or path to which the easements or other grants of easement are made, are

PROVEN DONOR
 DATE 5/22/28

I, NORME L. SUTTON, certify that the above studies in subdivision of lots in an area covered by a subdivision

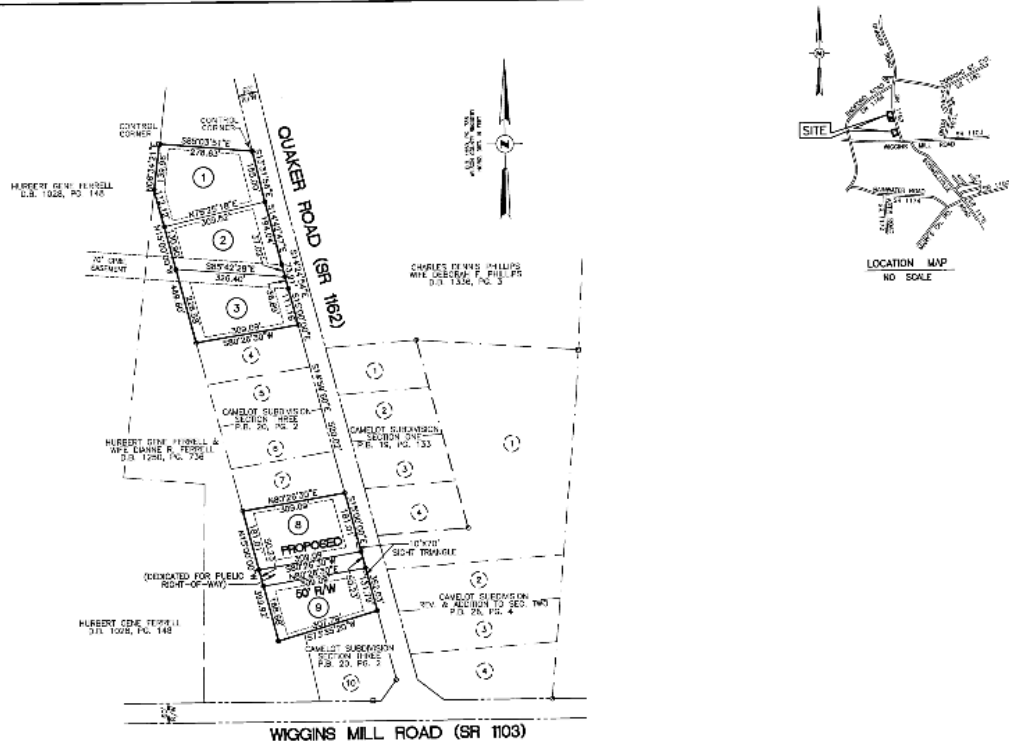
I (We) hereby certify that I (we) are (are) the owner(s) of the portion shown and located herein and that (we) hereby submit this plan of subdivision with my (our) true correct subdivision plat to the Clerk of Wake County, North Carolina, for recording and approval. I (we) will at all times be liable to the satisfaction of the County of Wake.

[Signature]
 DATE 5/22/28

I hereby certify that the subdivision plan shown herein has been found to comply with the subdivision regulations for Wake County, North Carolina, with the exception of such portions, if any, as are noted in the minutes of the Planning Board and that it has been approved by the County Commissioners for recording in the office of the County Register of Deeds.

[Signature]
 CLERK, WAKE COUNTY BOARD OF COMMISSIONERS DATE 5/22/28

STRAKES
 FRONT = 40'
 SIDE = 12'
 REAR = 20'
 ST. CORN. = 20'



FINAL PLAT
 SECTION FOUR
 CAMELOT SUBDIVISION

27
 275
 275
 275

I (we) hereby certify that I (we) am (are) the owner(s) of the property shown and certified herein, and that I (we) hereby attest the true and correct nature of this plat, and that the same conforms to all laws and ordinances of the State of North Carolina, and that the same conform to the specifications of the County of Wilson.

Hubert G. Ferrell 5/14/98
Dianne R. Ferrell 5/14/98

DWYERS: _____ DATE: _____

I hereby certify that the subdivisions shown herein have been found to comply with the Subdivision Regulations for Wilson County, North Carolina, with the exception of such portions, if any, so indicated in the minutes of the Planning Board and that it has been approved by the County Commissioners for recording in the office of the County Register of Deeds.

Don Williams (Exp) 5/20/98

CLERK, WILSON COUNTY BOARD OF COMMISSIONERS DATE: _____

SETBACKS
 FRONT = 40'
 SIDE = 12'
 REAR = 30'
 ST. SIDE = 20'

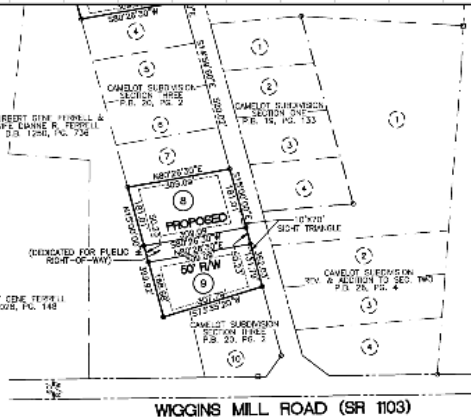
LEGEND
 EXISTING IRON PIPE ○
 NEW IRON PIPE ●
 EXISTING CONCRETE MONUMENT □

AREA DATA TABLE

LOT #	ACREAGE
LOT 1	1.40 AC.
LOT 2	1.29 AC.
LOT 3	1.37 AC.
LOT 8	1.28 AC.
LOT 9	1.69 AC.
TOT. R/W	0.35 AC.
TOTAL AREA	8.69 AC.

REFERENCES:
 DEED BOOK 1293, PAGE 328
 PLAT BOOK 19, PAGE 133
 PLAT BOOK 26, PAGE 2
 PLAT BOOK 26, PAGE 4

PLAT NOTE:
 A SEPTIC TANK PERMIT APPROVED BY THE WILSON COUNTY HEALTH DEPARTMENT IS REQUIRED PRIOR TO ISSUING A BUILDING PERMIT FOR CONSTRUCTION ON THESE LOTS.



FINAL PLAT
 SECTION FOUR
CAMELOT SUBDIVISION
 PROPERTY OF
HURBERT GENE FERRELL
 AND WIFE
DIANNE R. FERRELL
 LOCATED IN

CROSS ROADS TWSP., WILSON CO., N.C.
 APRIL 1998 SCALE: 1" = 200'



GREEN ENGINEERING
 POST OFFICE BOX 609 - 303 N. GOLDSBORO ST.
 WILSON, NORTH CAROLINA 27893

MAIL TO:
 HURBERT GENE FERRELL
 5221 WIGGINS MILL ROAD
 LECANA, N.C. 27851

NORTH CAROLINA
 WILSON COUNTY
 FILED FOR REGISTRATION
 AT 2:00 CLOCK A.P.M. 22 DAY OF
 May 19 1998 AND RECORDED
 IN BOOK 27 PAGE 75
John W. Strickland
 REGISTER OF DEEDS
By Aubrey R. Mason, Asst

Plat Book 27 Page 75

39-A-42

RECORDED IN PLAT BOOK 27 PAGE 75