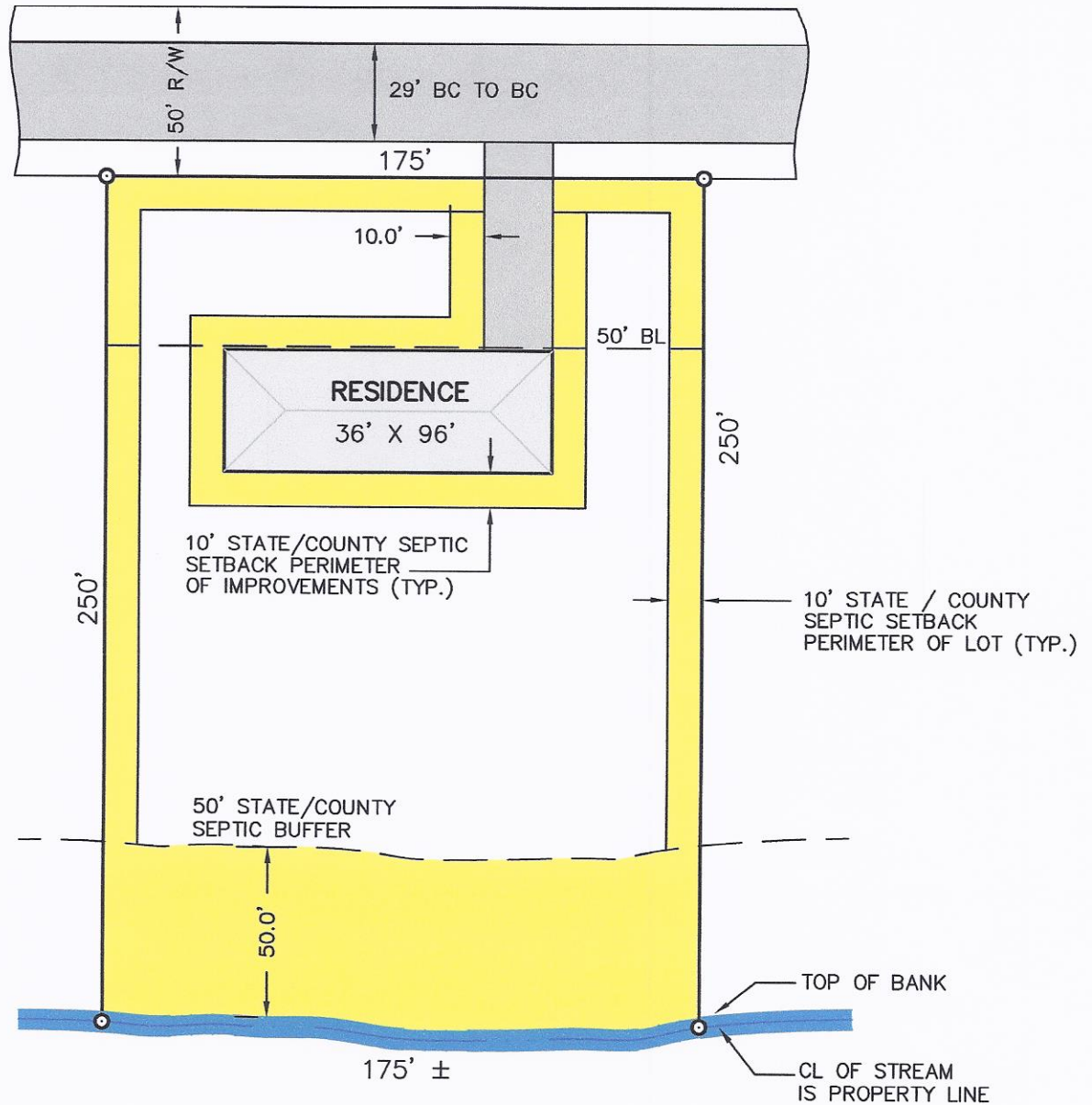


EXHIBIT "A"

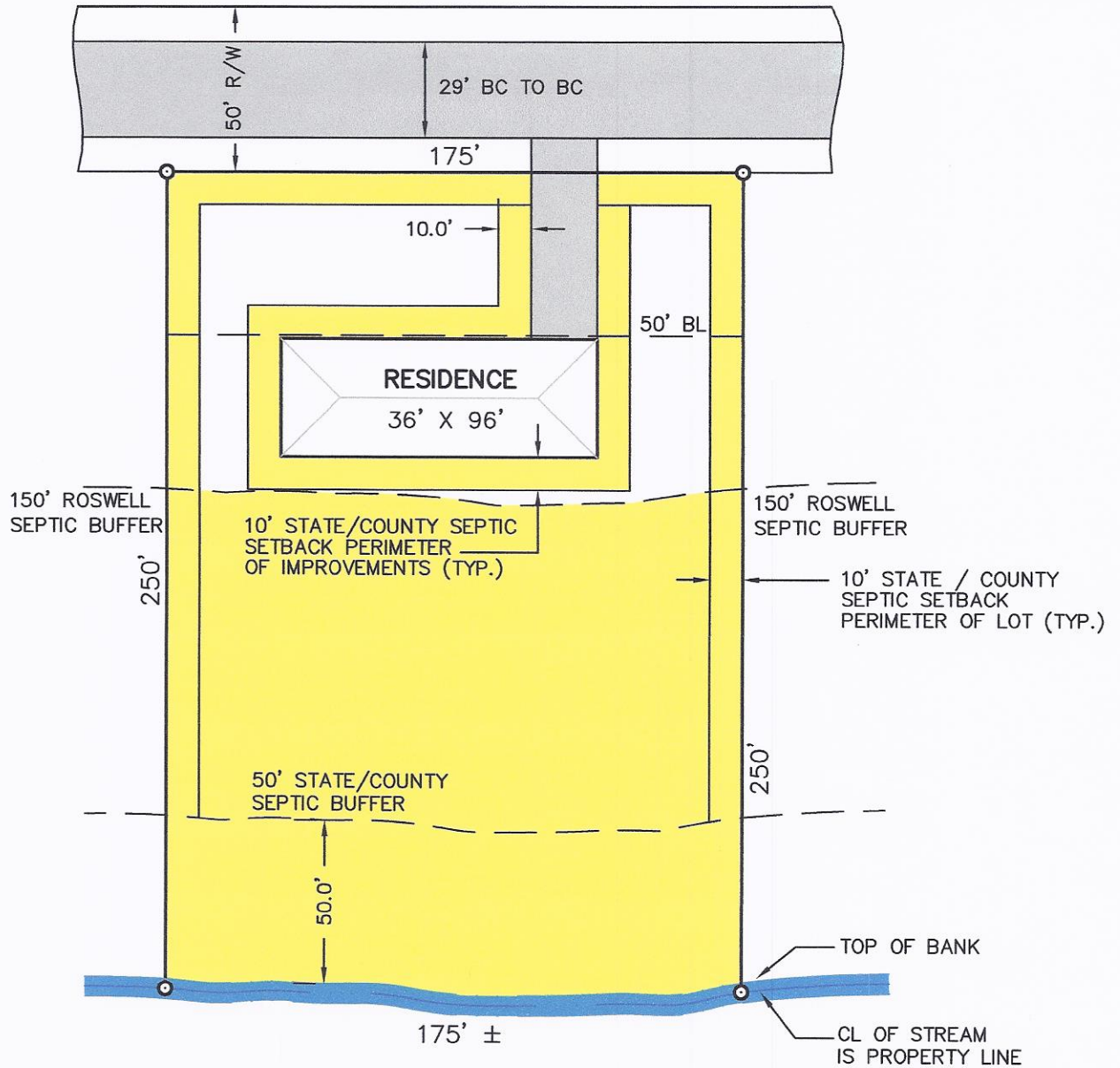
NET AREA FOR APPROVED SEPTIC PERMIT BY FULTON COUNTY OR STATE CODE



LOT AREA	=175' X 250'	=43,750 S.F.	=1.004 AC.
50' SEPTIC BUFFER	=53' X 175'	= 9,275 S.F.	
PERIMETER BUFFER	=10' X 530'	= 5,300 S.F.	
IMPROVEMENT BUFFER	=10' X 346'	= 3,460 S.F.	
RESIDENCE/DRIVES	=3,456+1,120	= 4,576 S.F.	
TOTAL DEDUCTION		=22,611 S.F.	
TOTAL AREA FOR SEPTIC PLACEMENT		=21,139 S.F.	

EXHIBIT "B"

NET AREA FOR APPROVED SEPTIC PERMIT BY ROSWELL CODE



LOT AREA	=175' X 250'	=43,750 S.F.	=1.004 AC.
50' SEPTIC BUFFER	=53' X 175'	= 9,275 S.F.	
PERIMETER BUFFER	=10' X 530'	= 5,300 S.F.	
IMPROVEMENT BUFFER	=10' X 346'	= 3,460 S.F.	
RESIDENCE/DRIVES	=3,456+1,120	= 4,576 S.F.	
ROSWELL 150' BUFFER	=ADDITIONAL	=15,560 S.F.	
TOTAL DEDUCTION		=38,171 S.F.	
TOTAL AREA FOR SEPTIC PLACEMENT		= 5,579 S.F.	

EXHIBIT "C"

20 ACRE PROPERTY YIELDS 18 BUILDABLE LOTS UNDER COUNTY/STATE SEPTIC CODE
LOTS SHOWN HEREON TAKEN FROM EXHIBIT "A"

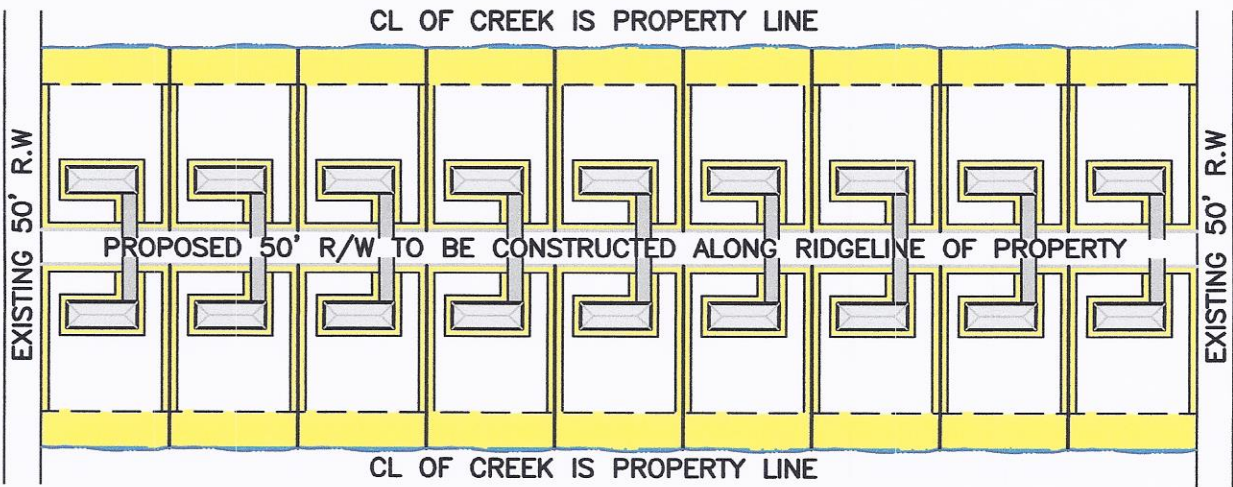
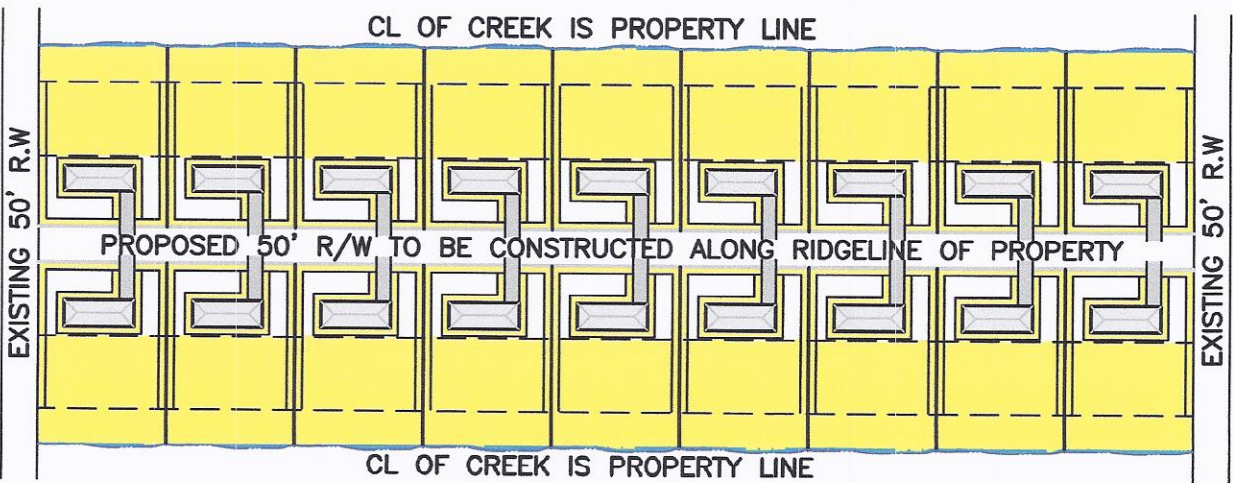


EXHIBIT "D"

20 ACRE PROPERTY YIELDS ZERO BUILDABLE LOTS UNDER CITY OF ROSWELL SEPTIC CODE
LOTS SHOWN HEREON TAKEN FROM EXHIBIT "B"



SCALE = 1"=250'



FULTON COUNTY CODE OF ORDINANCES AND CODE OF RESOLUTIONS

CHAPTER 34 - HEALTH AND SANITATION

ARTICLE XI. SEWAGE DISPOSAL

Approved By Board of Commissioners – June 2, 1982
Amended – September 7, 1988

TABLE OF CONTENTS

Sec. 34-

	<u>Page</u>
506 Definitions	1
507 Disposal of Sewage	4
508 Toilets	4
509 Connection to Sewer	5
510 Permit	7
511 Area Requirements	9
512 Plan Approval/Data Requirements	9
513 Field Data Procedures	12
514 Sewage Flow	14
515 Appurtenances	14
516 Sewage Conduits	17
517 Absorption Field	17
518 Interim Conditional Repairs	21
519 Alternative System	21
520 Experimental and Innovative System	21
521 Sewage Removal and Disposal	22
522 Sewer Moratorium/Limited Sewage Capacity	22
523 Nonsewered Toilet System	23
524 Privies	26
525 Tables	27

Sec. 34-517. Absorption field. (cont.)

No additional trench area shall be required when an additional bathroom or wetbar is proposed if it is connected to the main onsite sewage management system. If a basement bathroom is proposed below the elevation of the main system, then a minimum 750-gallon septic tank and 300 square feet of absorption trench is required, actual trench area shall be based on percolation test rates. Split systems may require additional absorption trench area compared to a single system.

- (2) *Commercial development.* Total absorption trench bottom area for nonresidential onsite sewage management systems shall not be less than the area obtained by multiplying the maximum anticipated daily sewage flow (gallons) by the percolation coefficient, i.e., one-fifth of the square root of the average percolation rate, e.g., $\frac{1}{5}$ times the square root of the percolation rate X gallons = total absorption trench bottom area. The maximum anticipated daily sewage flow shall be determined in accordance with the sewage flow schedule, table D of this article. The maximum total absorption trench bottom area for a nonresidential/commercial onsite sewage management system shall be 9,000 square feet. The minimum size nonresidential/commercial onsite sewage management system shall include at least a 750-gallon septic tank and 300 square feet of absorption trench bottom area.
- (b) *Location.* No absorption field shall be installed within the minimum separation distance indicated in table C from the referenced items, existing or proposed, nor in areas with unsuitable fill material. However, if fill section has been in existence for a minimum of ten years (appropriate documentation as required by the health department) and normal compaction has taken place, then field lines may be allowed in the fill section based on satisfactory soils reports. A reduction in the minimum normal compaction timeframe (ten years) may be considered based on satisfactory lab tests and a favorable opinion from a soil scientist or soils engineer. If wells and onsite sewage management systems are in place on contiguous lots, 100 feet of separation shall be maintained between any well and any absorption field. Absorption fields shall not be installed in the floodplain nor where groundwater or adverse geological formations may interfere with the absorption of treated sewage or result in the contamination of groundwater. Absorption fields shall not be installed in areas subject to excessive surface water, ponding or runoff, including but not limited to stormwater and discharge from building gutters. Absorption fields shall not be installed where ground slopes exceed 20 percent, but sites with slopes exceeding 20 percent may be considered if investigations demonstrate that the slope limitation can be overcome by design or site modification (see details A and F). The health department, after site inspection, may require greater separation distances due to adverse conditions such as topography, subsurface soil characteristics and/or groundwater sources. No part of the absorption field shall ever be covered by buildings, pavement or be used for vehicular traffic or parking.
- (c) *Minimum design and construction.* Absorption trenches shall be on grade throughout, constructed in minimum lengths (runs) of 50 linear feet, shall be no less than 30 nor more than 46 inches in depth, shall be at least 36 inches in width and shall enable placement of at least 12 inches of earth cover over distribution lines. If unfavorable soil conditions (high clay content, hard pan, etc.) are encountered at normal installation depths, trenches may be installed at greater depths if approved appropriate, site modifications are performed and acceptable percolation test rates can be shown to exist at these depths, and the soil meets all requirements for installation of absorption fields with respect to rock, groundwater elevations, etc. Absorption trenches shall be spaced not less than seven feet apart between trench walls nor closer than five feet to any septic tank. Perforated pipe shall be laid in the center of the trench with perforations oriented toward the bottom of the trench and appropriate fittings used where needed. Pipe crossings under roadways or paved areas shall not be considered in determining the total absorption trench bottom area. If an illegal trash pit is encountered during construction, then an absorption trench bypass must be installed in accordance with detail B meeting the approval of the health department. Aggregate shall be

TABLE C

SEPARATION DISTANCE REQUIREMENTS

Reference Item	Minimum Separation (feet) Septic Tank	Minimum Separation (feet) Absorption Field
Bored wells, springs (existing, proposed or abandoned)	50*	100*
Drilled wells (existing, proposed or abandoned)	25	50*
Suction water lines	50	100
Pressure water lines	10	10**
Lakes, ponds, streams, waterways	25	50
Edge of drainage ditch (draw)	15	15
Edge of embankment	15	15
Retaining wall (uphill)	15	15
Retaining wall (downhill)	5	5
Building structure	10	10
Pool wall	10	10
Edge of pavement	5	5
Property line (public water)	10	10
Property line	10	10
(Individual water supplies)	50	50
Retention, detention ponds (100-year pond elevation)	15	15
Illegal trash pits***	15	15

*Minimum separation distances from the septic tank and absorption field and abandoned wells may be reduced to 25 feet if the abandoned well is filled and compacted (in three-foot layers maximum) with any material approved by the health department. The top of the abandoned well shall also be sealed and capped as approved by the health department.

**Pressure water lines may be allowed in the cover over the system but not the absorption field trench if approved by the health department.

***No trash pits shall be allowed on lots (residential or commercial) where an onsite sewage management system is proposed unless approved by the health department and the appropriate governmental jurisdiction. Health department approval of any trash pit shall be limited only to its location relative to the proposed location of the onsite system. See detail B.

(Res. of 9-7-88(3), § 30-2-7, table C)

RULES OF THE DEPARTMENT OF PUBLIC HEALTH
CHAPTER 511-3-1

On-Site Sewage Management Systems

Table of Contents

511-3-1-01 Applicability	511-3-1-12 Grease Traps
511-3-1-02 Definitions	511-3-1-13 Sewage Flow
511-3-1-03 On-Site Sewage Management Systems	511-3-1-14 Subdivision & Mobile Home Parks
511-3-1-04 Sewers	511-3-1-15 Technical Review Committee
511-3-1-05 Septic Tanks	511-3-1-16 Certification of Soil Classifiers, Septic Tank Contractors, On-Site Sewage Management System Inspectors, and Sewage Pumpers
511-3-1-06 Distribution Devices & Dosing Tanks	511-3-1-17 Maintenance and Operation
511-3-1-07 Absorption Fields	511-3-1-18 Standards for Non-Conventional On-Site Sewage Management Systems
511-3-1-08 Privies	
511-3-1-09 Alternative On-Site Sewage Management Systems	
511-3-1-10 Experimental On-Site Sewage Management Systems	
511-3-1-11 Septage Removal & Disposal	

(2) Location. No septic tank shall be installed less than fifty feet (50') from existing or proposed wells, springs, sink holes, or suction water lines, and tanks shall be located downgrade from wells or springs if physically possible; less than twenty-five feet (25') from geothermal boreholes, lakes, ponds, streams, water courses, and other impoundments; less than ten feet (10') from pressure water supply lines, or less than ten feet (10') from a property line. No septic tank shall be installed less than fifteen feet (15') from a drainage ditch or embankment. Septic tanks shall be installed so as to provide ready access for necessary maintenance, and should be at least ten feet (10') from hardscape, drives, swimming pools and building foundations. The County Board of Health, after site inspection, may allow lesser separation distances or require greater distances than cited herein due to unusual conditions of topography, site configuration, subsurface soil characteristics, or groundwater interference.

(3) Location. No absorption field will be constructed less than one hundred feet (100') from existing or proposed wells, springs, or sinkholes; less than ten feet (10') from water supply lines and buildings with basements and less than five feet (5') from buildings without basements, other structures, drives, hardscape, and property lines; less than fifteen feet (15') from an embankment, swimming pool foundation, drainage ditch or trash pits; not less than fifty feet (50') from geothermal boreholes and the normal water level of any impoundment, tributary, stream, or other body of water, including ponded areas of wetlands. If the water supply line crosses or comes within ten feet (10') of the absorption field, the water supply line shall be installed at least twelve inches (12") above the top of the aggregate layer of the absorption line, non-aggregate absorption line or other absorption line, and shall be encased in a single length of larger diameter water pipe. No absorption field shall be installed in areas where groundwater, soil characteristics, or adverse geological formation may interfere with the absorption or effective treatment of sewage effluent.