Date Received 9-17-84

SIR No. 21469

T. C. No. 197-413-27

Map Date L

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPLICATION FOR SOIL INVESTIGATION

1) NAME OF OWNER Triplett Thomas Neil
LAST FIRST MIDDLE
Bookholt Robert Glen

2) ADDRESS OF OWNER 11349 Bain School Rd ZIP 28212

3) PHONE NO. Home 847-0107 Office 545-3109

4) LOCATION OF PROPERTY 11329 Lawyers Rd. Charlotte, N.C. 28212
STREET OR COUNTY ROAD

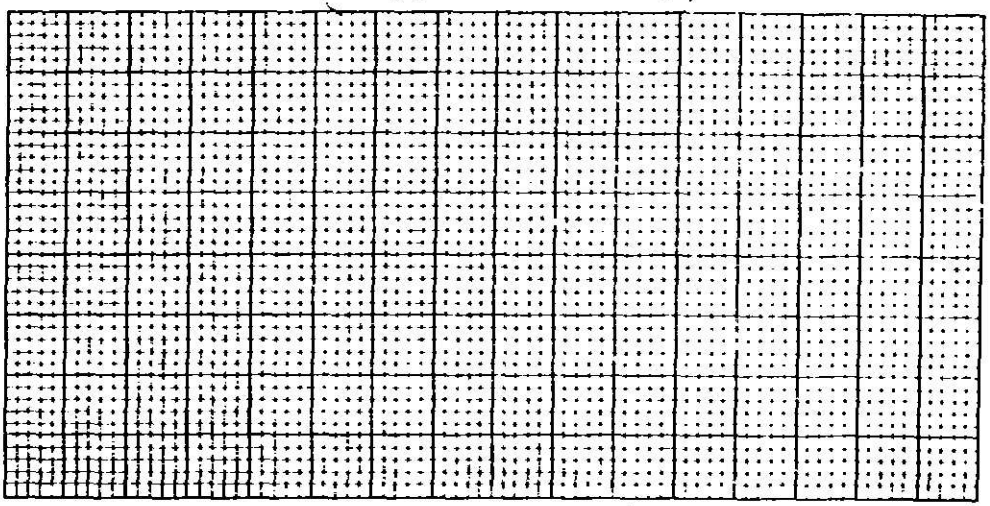
5) SUBDIVISION _____ LOT NO. _____ BLOCK NO. _____

MAP BOOK NO. 1650 PAGE NO. 13

6) DEED REFERENCE: DEED BOOK 2605 PAGE NO. 61

Application is hereby made to the Mecklenburg County Department of Environmental Health for the conduct of a soil investigation and an on site inspection of the lot hereinabove described for the purpose of determining if the lot is suitable for the installation of an individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge.

(SEE MAP ATTACHED)



7) ACCURATELY DIAGRAM & DIMENSION LOT

Thomas N. Triplett
OWNER

EHD-5-76

ENVIRONMENTAL HEALTH DEPARTMENT'S COPY

MECKLENBURG COUNTY
Department of Environmental Health

FILE NO. 21469

DATE 9-26-84

Robert G. Bookholt
Thomas N. Triplett
11349 Bain School Road
Charlotte, NC 28212

Re: Property located at 11329 Lawyers Road

Dear Sir:

At your request a soils investigation was conducted on the property designated above. Results of this investigation, showed the site to be classified unsuitable for the installation of a ground absorption sewage disposal system. A copy of the site evaluation report is enclosed for your information.

North Carolina General Statute 130A-335 and 10 NCAC 10A .1948 (c) provides that:

> Sites originally classified as UNSUITABLE may be used for soil absorption disposal systems, provided engineering, hydrogeologic, and soil studies indicate to the local health department that a suitable septic tank system or a suitable alternate system can reasonably be expected to function satisfactorily. Such sites may be reclassified as PROVISIONALLY SUITABLE upon submission to the local health department and when requested by the local health department to the state agency of the following:
>
> (1) Adequate substantiating data to indicate that a ground absorption system can be installed so that the effluent will receive adequate treatment;
>
> (2) Adequate substantiating data to indicate that the effluent will not contaminate any drinking water supply, ground water used for drinking water, or any surface water;
>
> (3) Adequate substantiating data to indicate that the effluent will not be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

Upon receipt of a request for reclassification as provided for above, the submission of plans and specifications for an applicable sewerage treatment system, and the approval of such system as submitted, the department will issue the appropriate permits.

If I may be of any assistance, please feel free to call.

Sincerely,

Bill D. Hardister, Jr.

Bill D. Hardister, Jr.
Environmental Health Supervisor
On Premises Waste Disposal Section

Enclosure

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1200 BLYTHE BOULEVARD
CHARLOTTE, NORTH CAROLINA 28203

December 28, 1984

Robert G. Bookholt
Bookholt, Triplett and Pinsak
P. O. Box 23231
Mint Hill, NC 28212

Reference: Property located at 11329 Lawyers Road

Dear Mr. Bookholt:

We have received your application for an Improvement Permit on the above referenced property.

As you are aware from our site evaluation report dated September 26, 1984, this site was classified as unsuitable for the installation of an on-site sewage disposal system.

In order to proceed with this project, it will be necessary that you submit plans and specifications for the proposed construction. These plans should detail building location and size, location of any well on the property, and give complete specifications for the proposed alternate septic tank design.

As I understand, the building will be used as a dental office. It would therefore be necessary to furnish data to indicate the expected effluent flow rate generated during normal business hours. Copies of water billing records for comparable situations for a twelve month period would be suitable for our purposes. Please note however that the data should be based on an office of approximately equal size, with a similar number of employees, patients, and operation hours.

If there are any questions regarding this matter, please contact me at 376-4603.

Sincerely,

Bill D. Hardister, Jr.
Environmental Health Supervisor
On Premises Waste Disposal Section

BDH/kbg

cc: File 21469

Date Received 12-27-84

SEE INSTRUCTIONS ON BACK

RECEIVED
DEC 27 1984
MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

ICAR (S) Application No. 21469

T. C. No. 197-013-27

Map Date L

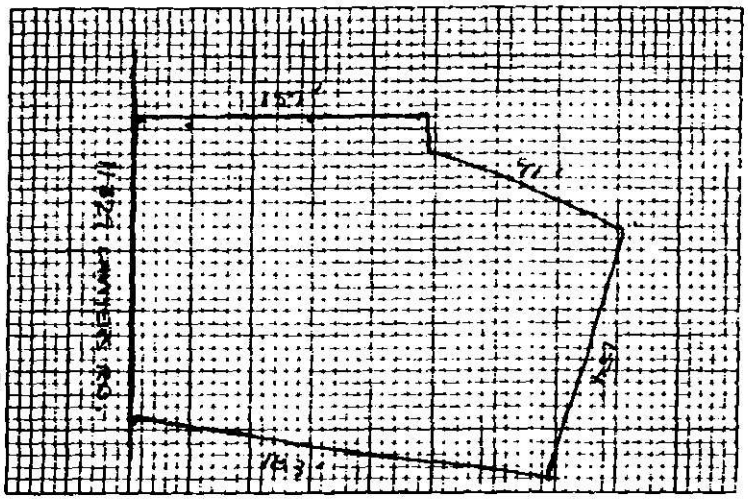
Held pending receipt of Letter of Credit from Owner
EH
12/28/84

MECKLENBURG COUNTY
ENT OF ENVIRONMENTAL HEALTH

Application for an
allation, Construction, Alteration, and/or Repair Permit
Tank System with Subsurface, Soil Absorption, Effluent Discharge)

The owner of that property described hereinafter hereby applies to the Mecklenburg County Department of Environmental Health for a permit to

1) X Install or Construct 2) - - Alter or Repair an individual septic tank wastewater treatment system with a subsurface, soil absorption, effluent discharge.



3) PLOT PLAN (ACCURATELY DIMENSIONED)

Mobile Home ___Yes X No
Residence ___Yes X No

4) No of Bedrooms N/A
5) Business Use — Max No 10 or 11
Employees ___
6) Washing Machine ___Yes X No
7) Garbage Disposal ___Yes X No
8 Dishwasher ___Yes X No
9) Water Supply
A) Individual Well X
B) Governmental System ___
C) Community System
1 Well source ___
2 Governmental source ___
10) Sewage System
House located within 200 feet of public sewer ___Yes X No
House located within 200 feet of community sewer ___Yes X No
11) FHA Case No N/A
12) VA Case No N/A

13) NAME OF OWNER [redacted]
LAST FIRST MIDDLE

14) ADDRESS OF OWNER [redacted] 28212

15) PHONE NO. Home [redacted] Office 545-3179

16) LOCATION OF SYSTEM [redacted]
STREET OR COUNTY ROAD

17) SUBDIVISION ___ Lot No. ___ Block No. ___

Map Book No. [redacted] Page No. [redacted]

18) DEED REFERENCE — DEED BOOK [redacted] AT PAGE [redacted]

19) HAS A SOIL INVESTIGATION BEEN RUN? X YES ___ NO DATE RUN 9-26-84

20) PTR NUMBER (See Instructions) [redacted]

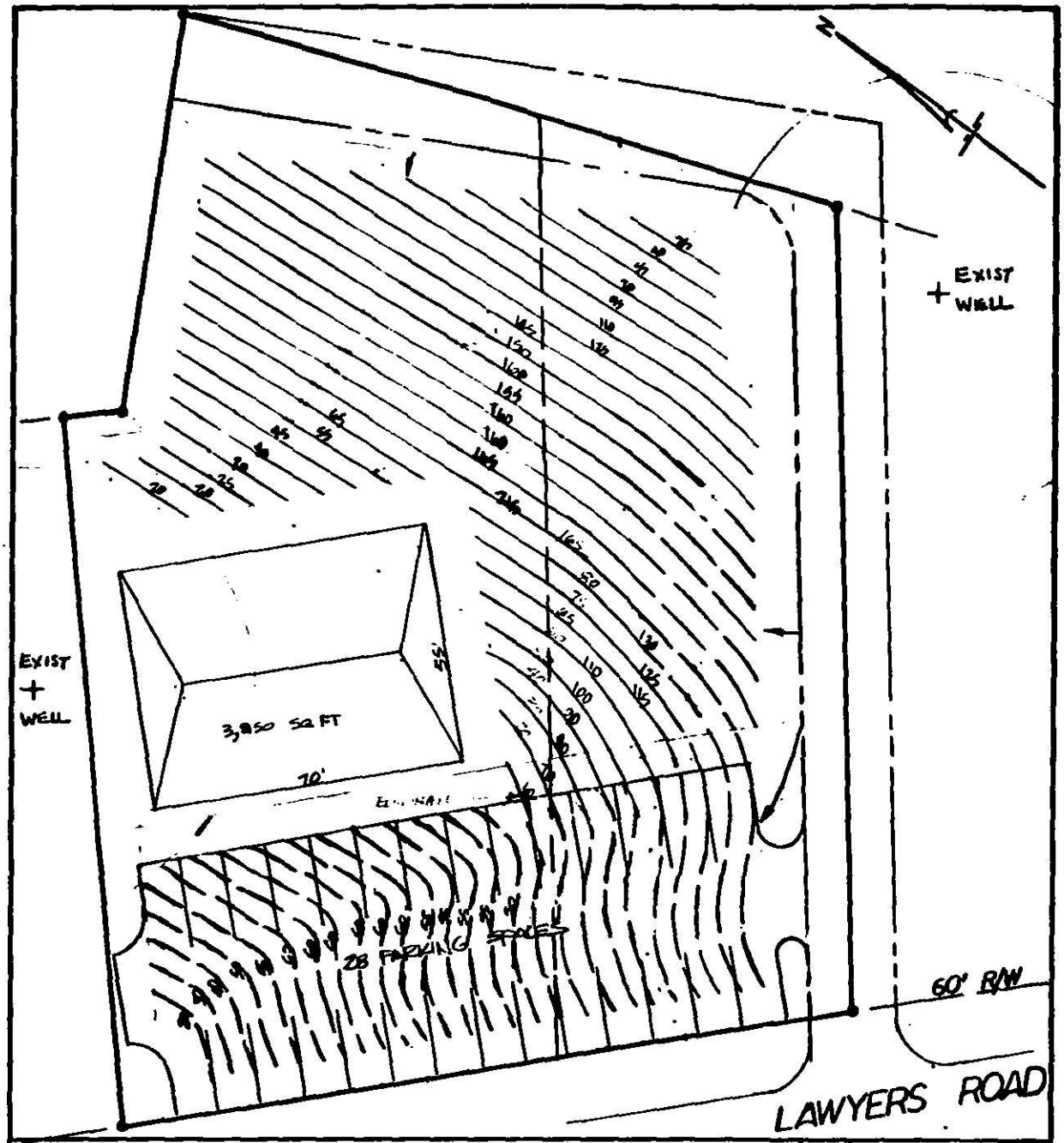
The undersigned person hereby agrees that he has read the foregoing application and that the contents of same are true It is understood that any permit applied for herein shall be void and of no effect if any of the above facts are not true.

12/20/84
DATE OF APPLICATION

RJ Barnett
OWNER

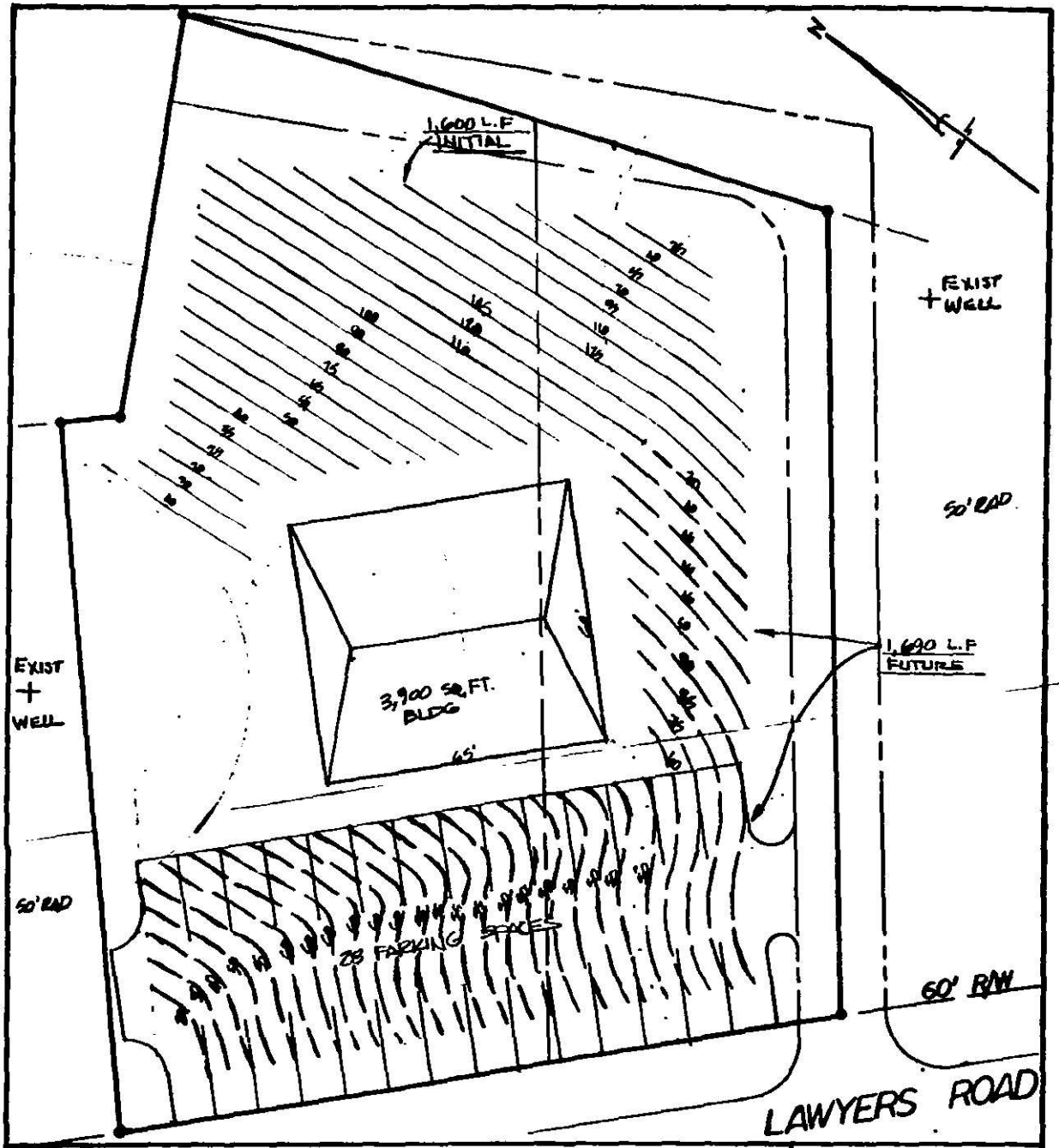
EHD-S-76

Environmental Health Department's Copy



SITE LAYOUT PLAN "F" FOR
LOW PRESSURE WASTEWATER DISPOSAL SYSTEM
FOR PROPOSED DENTAL OFFICE BUILDING
LAWYERS ROAD AT HIGHWAY #51
MINT HILL, MECKLENBURG COUNTY, N.C.
ROBERT G. BOOKHOLT & THOMAS N. TRIPLETT, OWNERS
POST OFFICE BOX 23231, MINT HILL, N.C. 28212
Prepared by David A. Roberts, P.E. of Landis, N.C.
Scale: 1" = 30' January 13, 1986

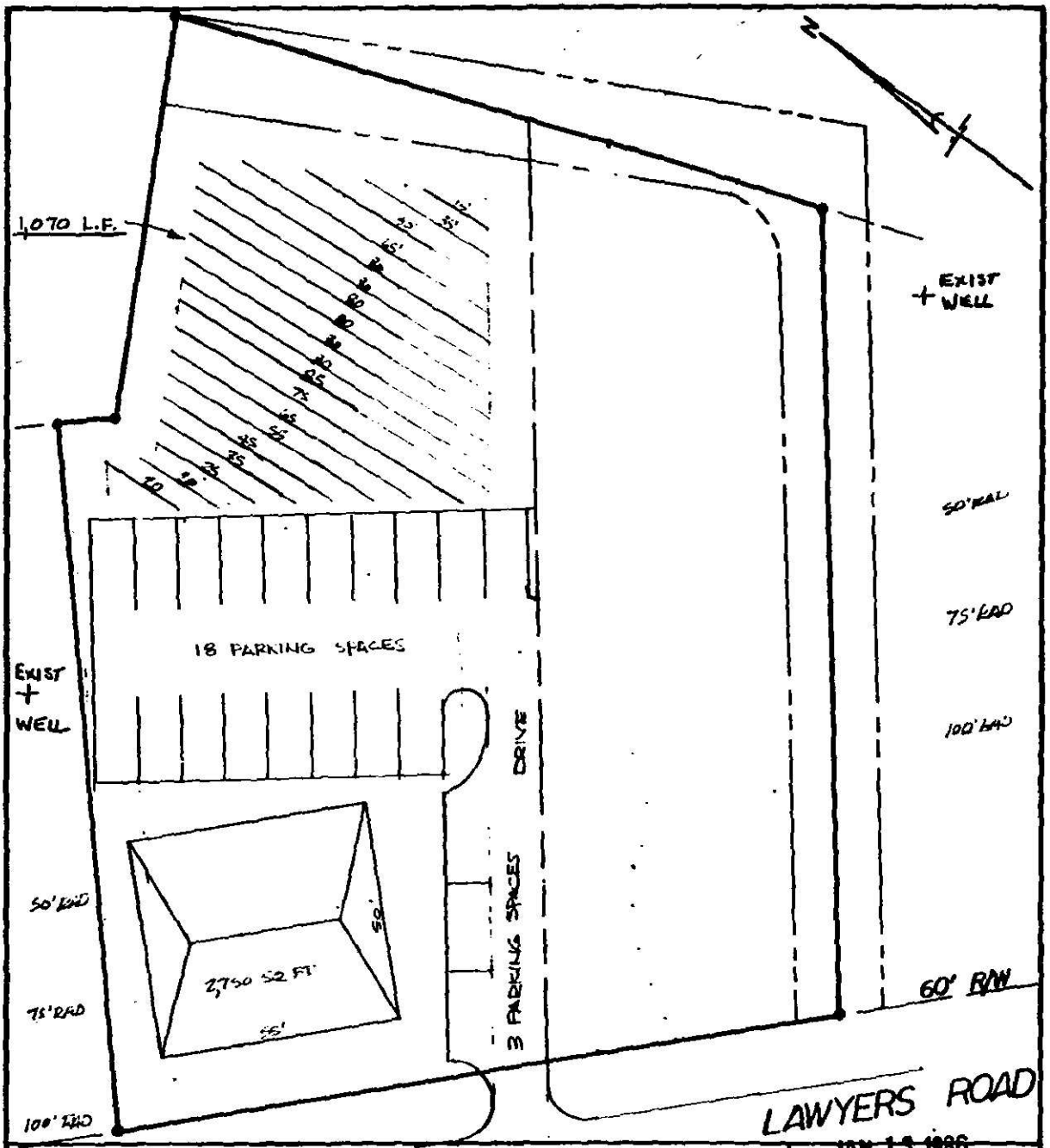
JAN 13 1986
NORTH CAROLINA PROFESSIONAL SEAL 6271 ENGINEER
DAVID ARTHUR ROBERTS



SITE LAYOUT PLAN "E" FOR
LOW PRESSURE WASTEWATER DISPOSAL SYSTEM
FOR PROPOSED DENTAL OFFICE BUILDING
LAWYERS ROAD AT HIGHWAY #51,
MINT HILL, MECKLENBURG COUNTY, N.C.
ROBERT G. BOOKHOLT & THOMAS N. TRIPLETT, OWNERS
POST OFFICE BOX 23231, MINT HILL, N.C. 28212
Prepared by David A. Roberts, P.E. of Landis, N.C.
Scale: 1" = 30" January 13, 1986

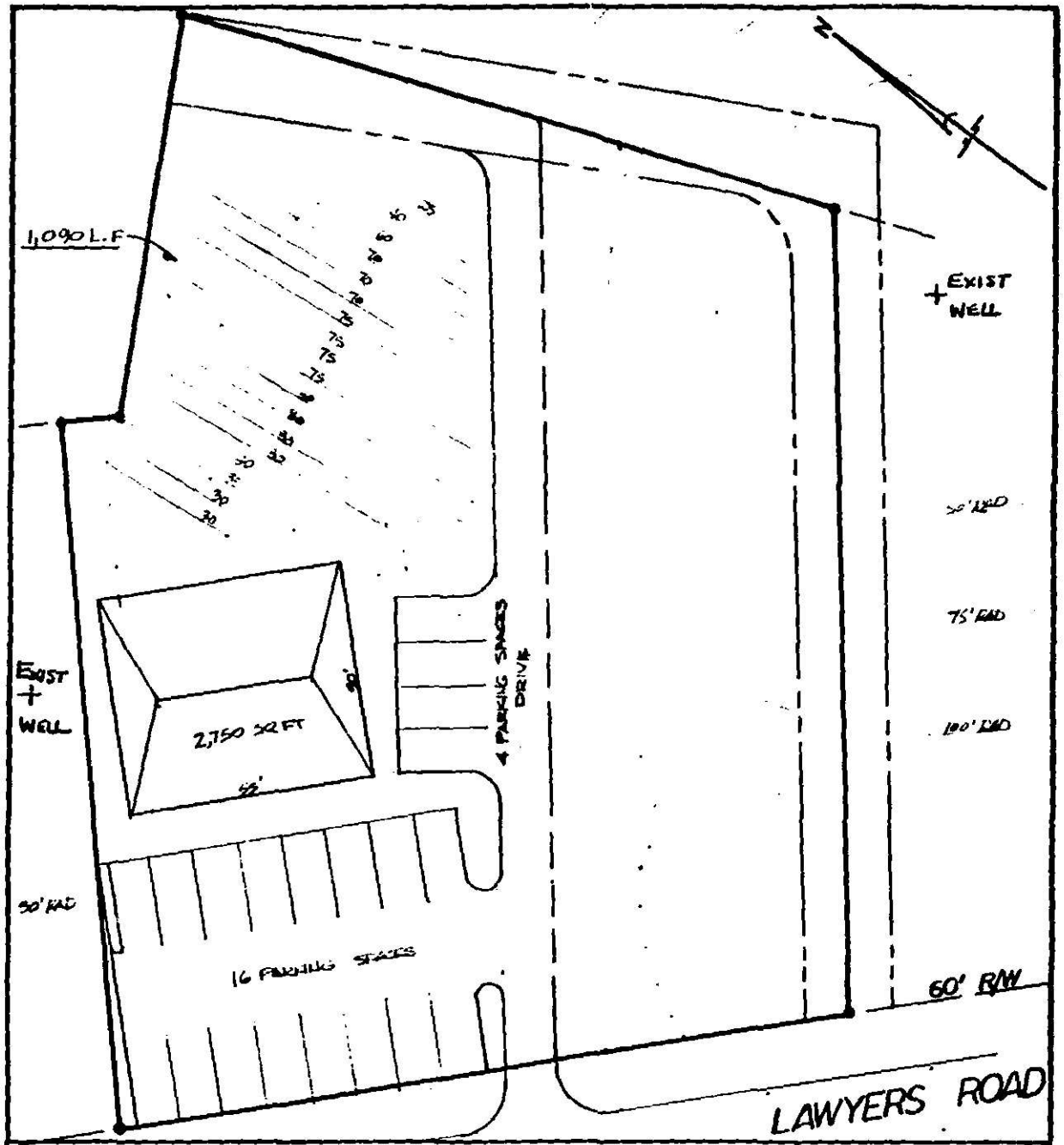
JAN. 13, 1986
NORTH CAROLINA
PROFESSIONAL
SEAL
6271
ENGINEER
DAVID ARTHUR ROBERTS

David A. Roberts



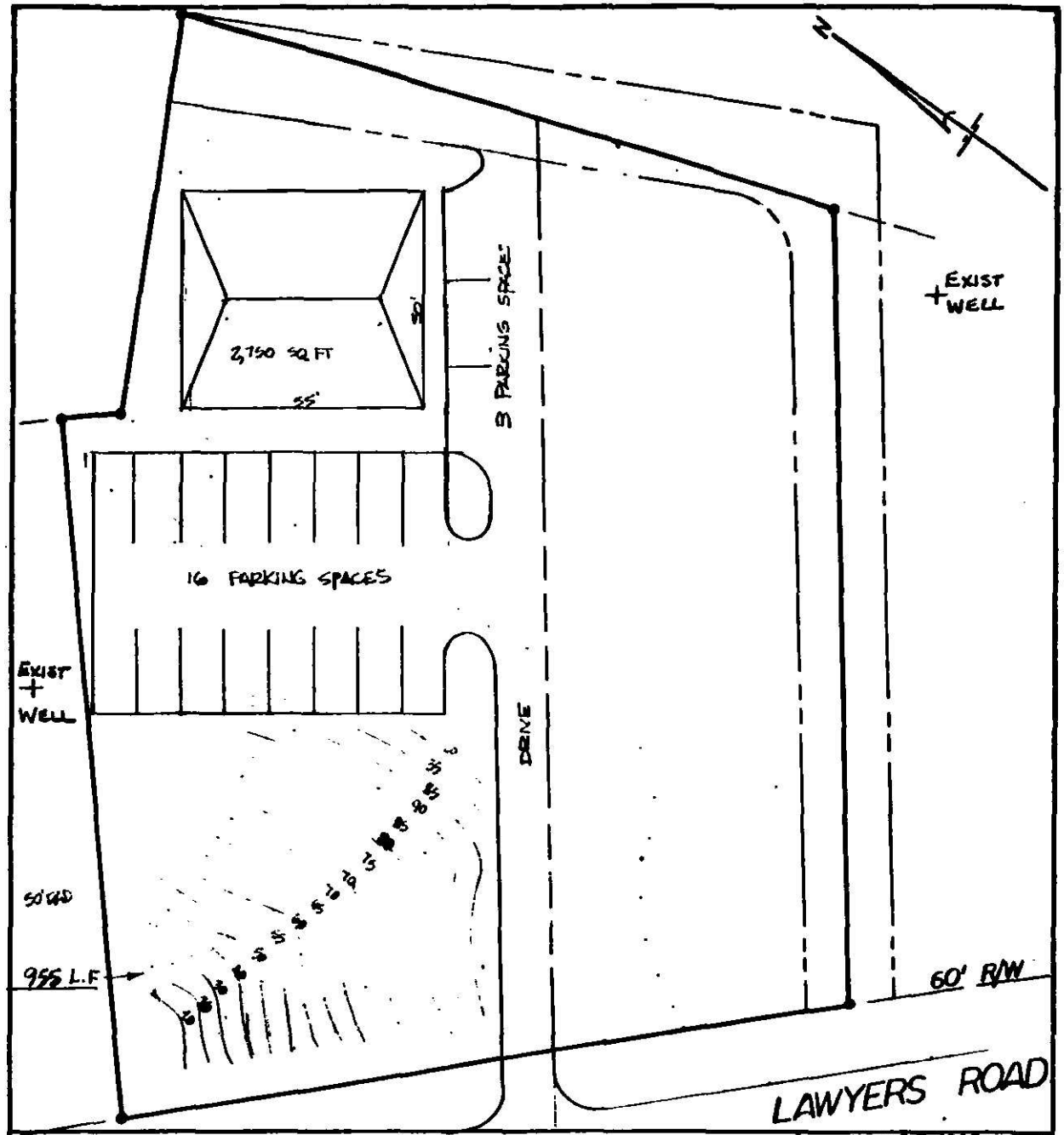
SITE LAYOUT PLAN "D" FOR
LOW PRESSURE WASTEWATER DISPOSAL SYSTEM
FOR PROPOSED DENTAL OFFICE BUILDING
LAWYERS ROAD AT HIGHWAY #51
MINT HILL, MECKLENBURG COUNTY, N.C.
ROBERT G. BOOKHOLT & THOMAS N. TRIPLETT, OWNERS
POST OFFICE BOX 23231, MINT HILL, N.C. 28212
Prepared by David A. Roberts, P.E. of Landis, N.C.
Scale: 1" = 30' January 13, 1986

JAN 13 1986
NORTH CAROLINA PROFESSIONAL SEAL 6271 ENGINEER DAVID ARTHUR ROBERTS
David A. Roberts



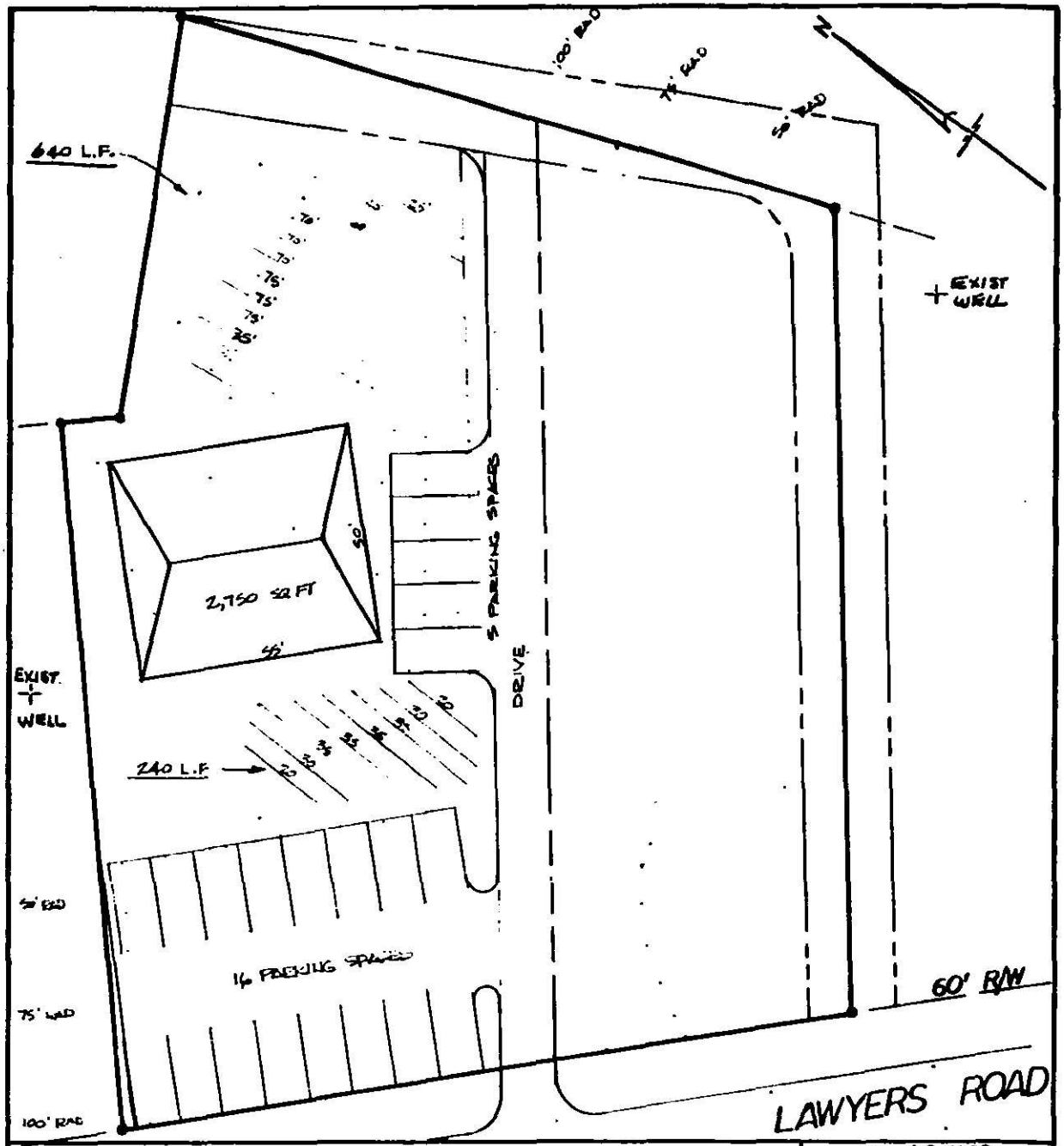
SITE LAYOUT PLAN "C" FOR
LOW PRESSURE WASTEWATER DISPOSAL SYSTEM
FOR PROPOSED DENTAL OFFICE BUILDING
LAWYERS ROAD AT HIGHWAY #51
MINT HILL, MECKLENBURG COUNTY, N.C.
ROBERT G. BOOKHOLT & THOMAS N. TRIPLETT, OWNERS
POST OFFICE BOX 23231, MINT HILL, N.C. 28212
Prepared by David A. Roberts, P.E. of Landis, N.C.
Scale: 1" = 30' January 13, 1986

JAN. 13, 1986
NORTH CAROLINA
PROFESSIONAL
SEAL
6271
ENGINEER
DAVID ARTHUR ROBERTS
David A. Roberts



SITE LAYOUT PLAN "B" FOR
LOW PRESSURE WASTEWATER DISPOSAL SYSTEM
FOR PROPOSED DENTAL OFFICE BUILDING
LAWYERS ROAD AT HIGHWAY #51
MINT HILL, MECKLENBURG COUNTY, N.C.
ROBERT G. BOOKHOLT & THOMAS N. TRIPLETT, OWNERS
POST OFFICE BOX 23231, MINT HILL, N.C. 28212
Prepared by David A. Roberts, P.E. of Landis,N.C.
Scale: 1" = 30' January 13, 1986

JAN. 13, 1986
NORTH CAROLINA
PROFESSIONAL
SEAL
6271
ENGINEER
DAVID ARTHUR ROBERTS
David A. Roberts



SITE LAYOUT PLAN "A" FOR
LOW PRESSURE WASTEWATER DISPOSAL SYSTEM
FOR PROPOSED DENTAL OFFICE BUILDING
LAWYERS ROAD AT HIGHWAY #51
MINT HILL, MECKLENBURG COUNTY, N.C.
ROBERT G. BOOKHOLT & THOMAS N. TRIPLETT, OWNERS
POST OFFICE BOX 23231, MINT HILL, N.C. 28212
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JAN 13 1986
NORTH CAROLINA
PROFESSIONAL
SEAL
6271
ENGINEER
DAVID ARTHUR ROBERTS
David A. Roberts

SIR 21469

David A. Roberts Engineering
SPECIALIZING IN WATER AND WASTEWATER ENGINEERING PROJECTS
Mailing Address
309 N. ZION ST.
LAMON, N.C. 28098
BUS PHONE (704) 667-3699
ANS SERVICE (704) 667-2984
Office Location
HIGHWAY 29/601 and
BAUMGARTY ROAD

January 15, 1986

Dr. Robert G. Bookholt, D.D.S.
Dr. Thomas N. Triplett, D.D.S.
Post Office Box 23231
Mint Hill, North Carolina 28212

MECK COUNTY DEPARTMENT OF
RECEIVED
JAN 21 1986
ENVIRONMENTAL HEALTH

Subject: Site Layout Plans for
Proposed Dental Office Building
Lawyers Road at Highway #51
Mint Hill, North Carolina

Dear Sirs:

Enclosed you will find six preliminary site layout plans, "A" through "F", for your property in Mint Hill. Plans "A" through "D" are for a 2,750 square foot building placed upon approximately 2/3 of the tract, and show different arrangements on the site of building location, disposal line location, parking, and driveway locations. Plan "E" shows a 3,900 square foot building placed on the entire tract, with parking lot and disposal trenches indicated. Plan "F" shows a 3,850 square foot building placed on the entire tract, with parking lot and disposal trenches identified.

All six layouts are based upon the ability to obtain your water supply from one of the two existing wells located on adjoining property and shown on our plans. All six layouts are based upon the ability to locate ground absorption disposal trenches to as close as 50+ feet from adjoining wells as shown on our plans.

Plan "A" shows 21 parking spaces, 640 linear feet of disposal trenches to the rear of the building and 240 linear feet of disposal trenches in front of the building, for a total of 880 linear feet of disposal trenches. This could be divided into two separate wastewater fields (the initial system and the future repair system) of 440 linear feet each. If the building is utilized as your dental office only, with no other tennants, and if your daily wasteflow is determined to be 500 gallons per day, the initial wastewater system would be loaded at the rate of 0.2273 gallons per day per square foot, which I feel is too high a loading rate for the soil on this site. In my opinion, the loading rate should be between 0.15 and 0.17 gallons per day per square foot. Prehaps more disposal lines could be added to the initial system to obatin the preferred loading rate, with the understanding that, if the disposal field should malfunction in the future, then the parking lot would have to be relocated to the rear of the property and the future repair system installed in the front of the lot in the area of the proposed initial parking lot.

Plan "B" shows 19 parking spaces and 955 linear feet of disposal trenches in the front of the lot. This could be divided into two disposal fields (initial and future repair) of approximately 475 linear feet each. With 500 gallons per day design wasteflow, this gives a soil loading rate of 0.2105 gallons per square foot per day. This loading rate is too high for this soil. Prehaps the initial disposal system could be made larger, say 625 linear feet, with the understanding that the initial parking lot would be abandoned and relocated to the front of the lot, and the repair field installed in the area of the initial parking lot, after the initial system has failed.

Plan "C" shows 20 parking spaces and 1,090 linear feet of disposal trenches. This could result in an initial disposal field of 545 linear feet and a future repair system of the same length. With 500 gallons per day design wasteflow, the soil loading rate would be 0.1835 gallons per day per square foot. In my opinion, this is still a little too high for loading the soil on this site. The initial system could be expanded to 625 linear feet, with the understanding that the first repair area of 465 linear feet would be installed in remaining space available, and if this proved to be inadequate, an additional area of 160 linear feet of disposal trenches would be obtained by relocating the parking lot to the rear of the tract and the repair lines installed where the initial parking lot was located.

Plan "D" is similiar to plan "C" as far as the disposal area is concerned. Plan "D" shows 21 parking spaces and 1,070 linear feet of disposal trenches. Our comments for plan "C" also applies to plan "D".

Plan "E" shows 28 parking spaces, 1600 linear feet of initial disposal trenches, and 1,690 linear feet of future repair trenches which occupy the area of the initial parking lot. If this building provided space for your dental office with a design daily wasteflow of 500 gallons per day, a similiar dental office for the orthodontist with an equal design daily wasteflow of 500 gallons per day, and no other tennants in the building, for a combined daily wasteflow of 1,000 gallons per day, the initial disposal field of 1,600 linear feet of trenches would result in a soil loading rate of 0.125 gallons per day per square foot, which is more than adequate for the soil on this site. If the initial system contained 1,250 linear feet of disposal trenches, the soil loading rate would be 0.16 gallons per square foot per day. This would leave 700 linear feet of disposal trenches available for future repair without the necessity of relocating the parking lot. If this repair proved to be inadequate, the parking lot would have to be relocated to the rear of the building, with the additional repair lines being installed where the initial parking lot had been located.

Plan "F" is similiar to plan "E" except that 2,815 linear feet of disposal trenches is available outside of the initial parking lot, and 4,150 linear feet available when the area of the initial parking lot is included. With 1,000 gallons per day combined wasteflow, there would be sufficient space available for the initial system and future repair without the need to relocate the parking lot.

I hope this information is helpful to you as you plan for a building on this site. Please review these plans, think about your best use for this property, and call me to discuss your ideas for this property. Please let me know how I can be of additional service to you.

With kind regards,

David A. Roberts

David A. Roberts

Copy: Bill D. Hardister, Jr.

DEPARTMENT OF ENVIRONMENTAL HEALTH
MECKLENBURG COUNTY,
NORTH CAROLINA

SITE EVALUATION

S.I.R. NO. 21469.

T.C. NO. 197-013-27

(Ground Absorption Sewage Disposal)

Thomas Triplett

OWNER: Robert Bookholt

ADDRESS: 11349 Bain School Rd 28212

PLAT NO:

LOT SIZE: .87A

LOCATION OF SITE: 11329 Lawyer Rd

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4
1. SLOPE (%)	S (PS) 2-6 U	S PS U	S PS U	S PS U
2. SOIL TEXTURE (12-36 inches) Sandy, Loamy, Clayey (Note 2-1 Clay)	S (PS) Clayey U	S PS U	S PS U	S PS U
3. SOIL STRUCTURE (12-36 inches)	S (PS) Blocky U	S PS U	S PS U	S PS U
4. SOIL DEPTH (inches)	S PS 12" (U)	S PS U	S PS U	S PS U
5. RESTRICTIVE HORIZONS (Inches) (Impervious strata, Rock)	S (PS) None U	S PS U	S PS U	S PS U
6. SOIL DRAINAGE/GROUNDWATER (external and internal)	S (PS) Adequate U	S PS U	S PS U	S PS U
7. OTHER (Specify) Trash Burial Area See map	S PS (U) Burial Area	S PS U	S PS U	S PS U
8. SOIL GROUP	IVa			
9. SITE CLASSIFICATION	Unsuitable			
10. SOIL SERIES	Cecil Area Cut Down To Near Saprolite			

S - Suitable PS - Provisionally Suitable U - Unsuitable

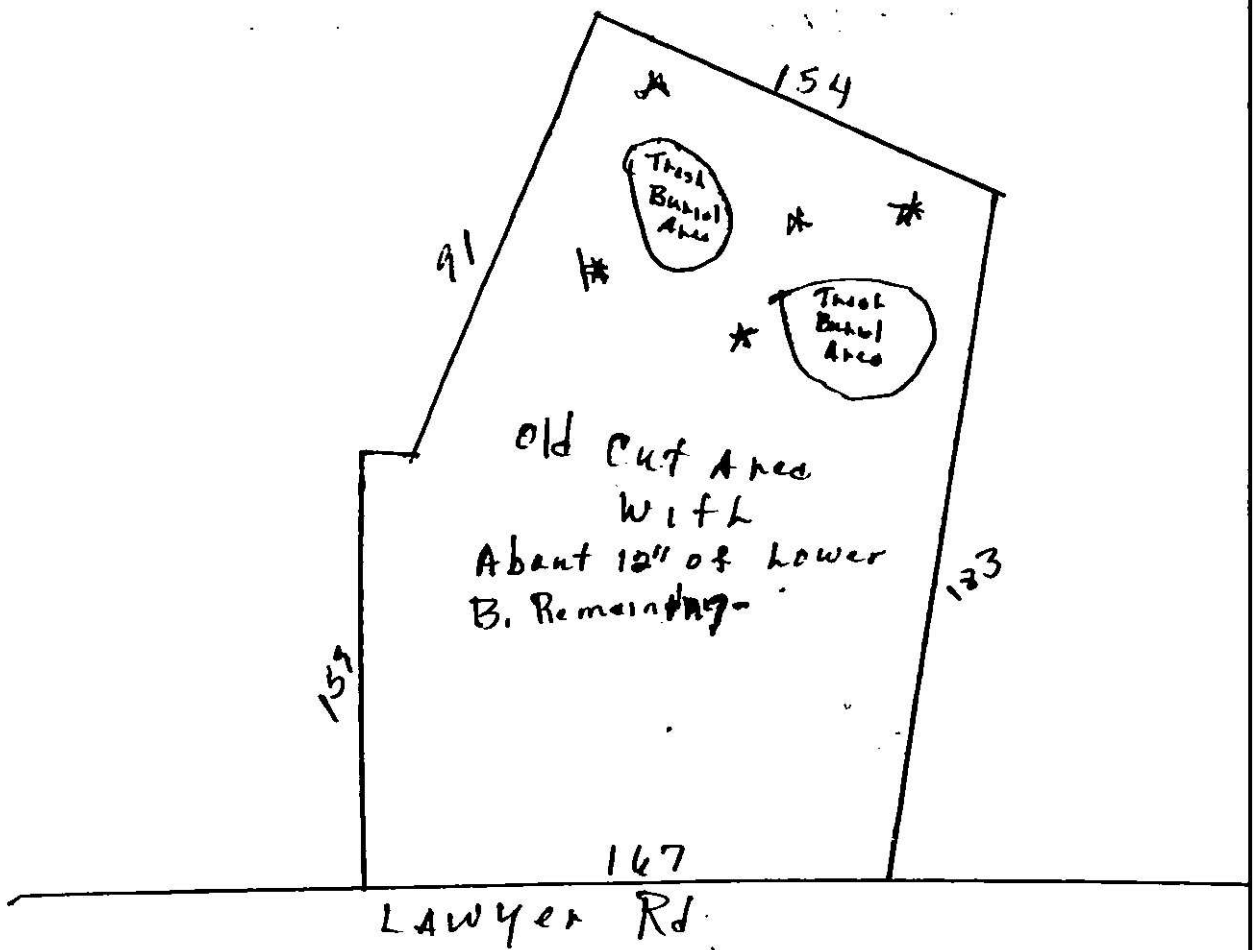
**See Diagram on Back (includes: soil areas, property lines, roads, streams, gullies, wet areas, fill areas, wells, water bodies, slopes)

Recommendations/Comments: Area Cut perhaps 30 years Ago.

Described by: Willard B. Ramsey
Title: Soil Scientist

Date: 9-21-84

2d


154
Trad Burial Area
Trad Burial Area
91
Old Cut Area
With
About 12" of Lower
B. Remaining
153
159
167
Lawyer Rd