

10/16/01
Layout
2:30

12/6/01
Layout
2:00

12/7/01 - AM
5/24/02 - 11:00
Pump Test

ISSUE DATE: 9/28/2001

APPROVAL DATE: 5/24/02

P 516042

A 59282-C

PERMIT INDEXED

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

03-285305

Builder Paid for Permit

Fogles

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 580 Obrecht Road, Sykesville PHONE NUMBER: 410-795-5670

SUBDIVISION: King's Gift LOT NUMBER: 55

ADDRESS: ~~11416 Castle Lane~~ 11674 Route 144 11674 FREDERICK ROAD PROPERTY OWNER: Joseph Anderson

SEPTIC TANK CAPACITY (GALLONS): 1250

PUMP CHAMBER CAPACITY (GALLONS): 1250

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240

TRENCHES:	Trench to be 3.0 feet wide. Inlet 2.0 feet below original grade. Bottom maximum depth 4.0 feet below original grade. Effective area begins at 2.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box 15' off the 195.35 lot line and 85' off the 125.00' lot line. Run (3) 80' trenches on contour as shown on plan to rear of septic reserve area.
NOTES:	Layout inspection must include groundwater evaluation at location of septic tanks prior to placement of septic tanks in the ground. PUBLIC WATER

PLANS APPROVED: MER DATE: 9/7/01

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

BUILDING PERMITS SIGNED CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

AND RETURNED

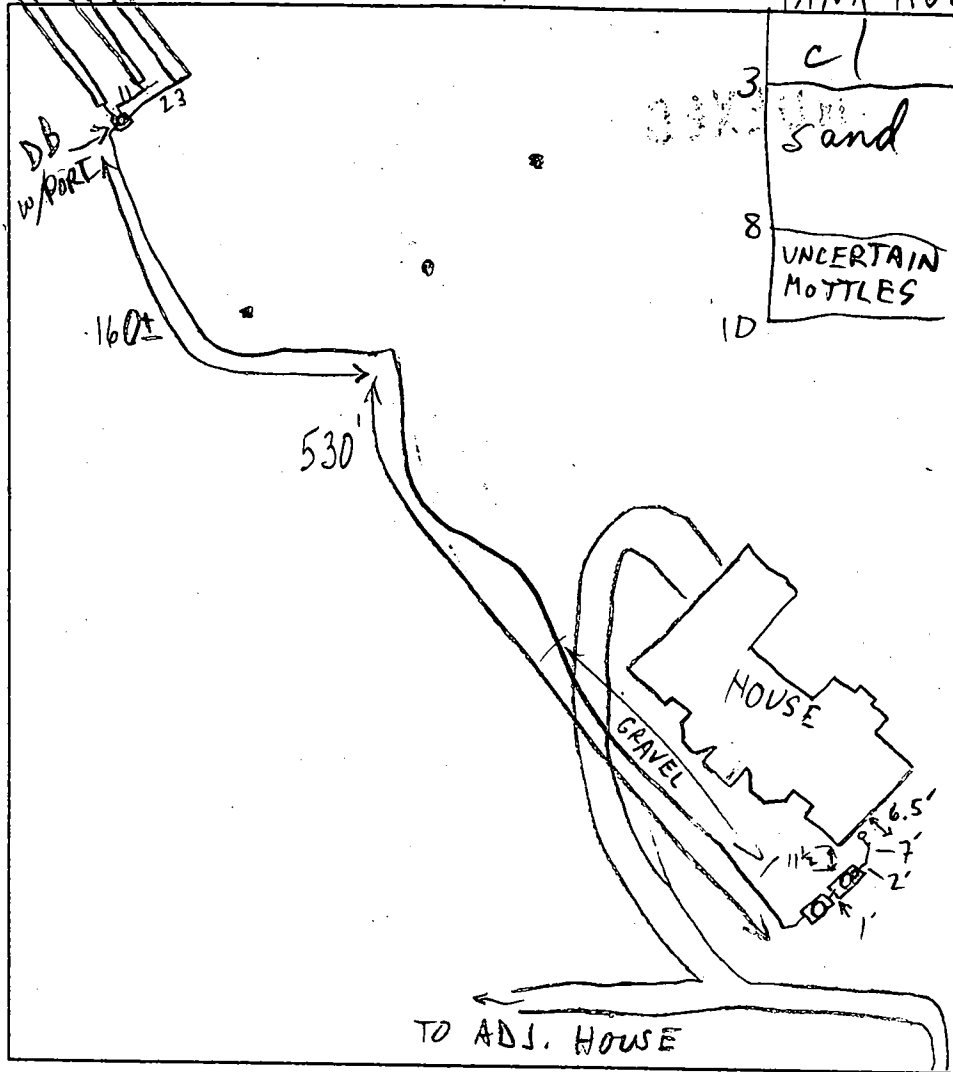
6-30-04 BOD 148376- POOL HOUSE

A59282-C

80' each.

NOT TO SCALE

TANK HOLE



TRENCH DATA

TRENCH WIDTH 3
 TRENCH INLET DEPTH 2
 TRENCH BOTTOM DEPTH 4
 DEPTH OF STONE 2
 NUMBER OF TRENCHES 3
 TOTAL TRENCH LENGTH 240'
 ABSORBENT AREA 720 ft²
 DISTRIBUTION BOX LEVEL w/ PORT ✓
 BAFFLE IN DISTRIBUTION BOX ✓

SEPTIC TANK DATA

SEPTIC TANK 1250 TS GALLONS
 MANHOLE RISER CENTER
 6 INCH INSPECTION PORT FRONT

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS 1250 TS
 MANHOLE RISER CENTER
 ALARM OPERATIONAL
 PUMP PERFORMANCE TEST ✓

PRE-CONSTRUCTION INSPECTION: 10/10/01 - INSTALL PER PLAN, SDA STAKED, (SRK)
11/19/01 Layout with Fogles cancelled (BA) 12/6/01 GW EVAL @ S.T. OK (MR) OK TO CONTINUE PER PLAN
 INSPECTION COMMENTS: 12/7/01 10:45 OK TO COVER TRENCHES, FINISH PRESSURE LINE, NO HOUSE CONN (MR)
12/7/01 1:30 OK TO COVER ALL WORK; HOLD FOR HOUSE CONN & PUMP INSP (MR)
5/24/02 - PUMP & ALARM OPERATIONAL (KA) SRK

BUILDING PERMIT SIGNED

DATE RETURNED


INSPECTOR

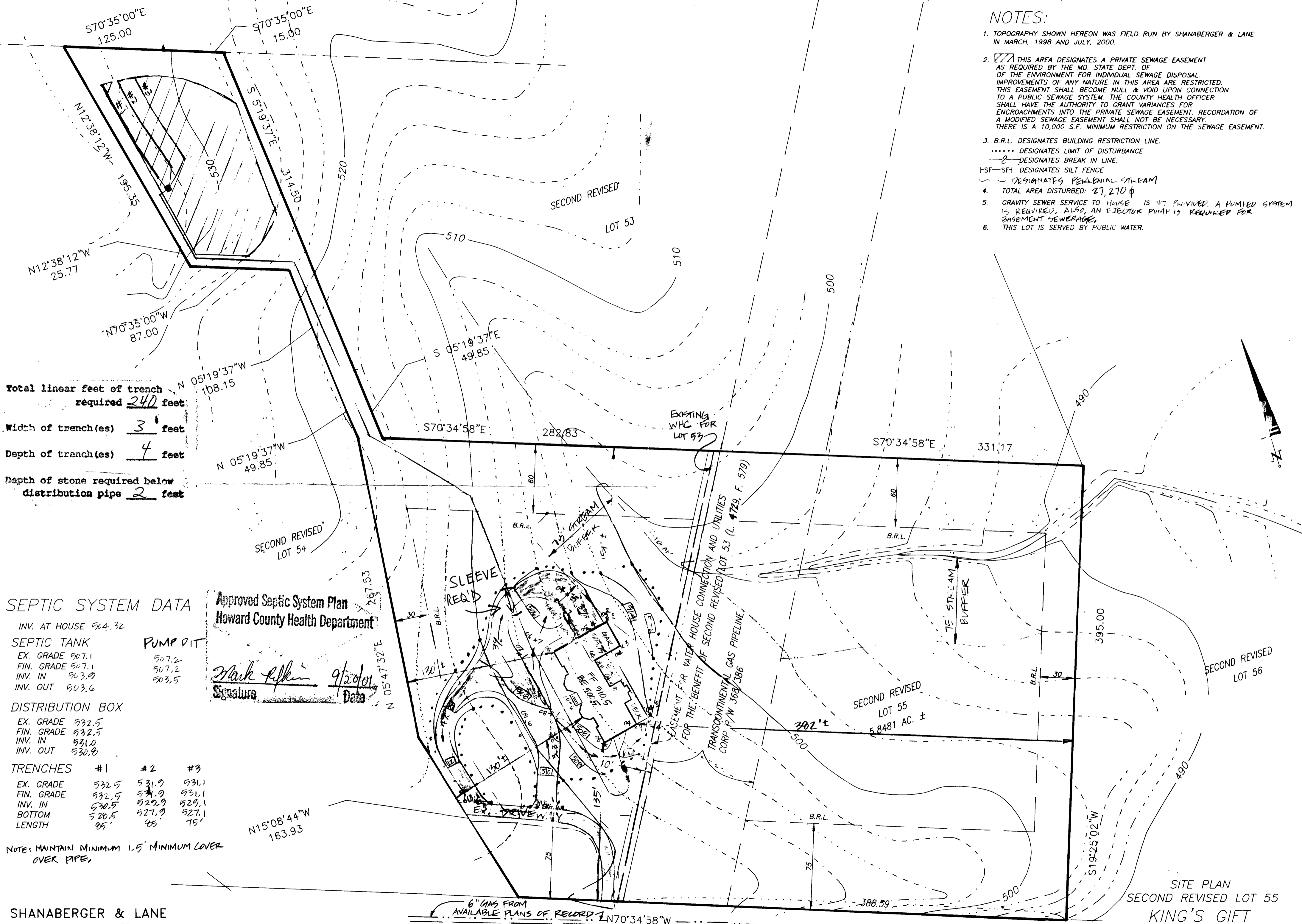
Kacie Noonan

DATE SYSTEM APPROVED

5/24/02

NOTES:

1. TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY SHANABERGER & LANE IN MARCH, 1998 AND JULY, 2000.
2.  THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MD. STATE DEPT. OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL & VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY. THERE IS A 10,000 S.F. MINIMUM RESTRICTION ON THE SEWAGE EASEMENT.
3. B.R.L. DESIGNATES BUILDING RESTRICTION LINE.
 DESIGNATES LIMIT OF DISTURBANCE.
 - - - - - DESIGNATES BREAK IN LINE.
 H-SF-SFH DESIGNATES SILT FENCE
 ~~~~~ DESIGNATES PERENNIAL STREAM
4. TOTAL AREA DISTURBED: 27,270 sq ft
5. GRAVITY SEWER SERVICE TO HOUSE IS NOT PROVIDED. A PUMPED SYSTEM IS REQUIRED. ALSO, AN EJECTOR PUMP IS REQUIRED FOR BASEMENT SEWERAGE.
6. THIS LOT IS SERVED BY PUBLIC WATER.



Total linear feet of trench required **240** feet  
 Width of trench(es) **3** feet  
 Depth of trench(es) **4** feet  
 Depth of stone required below distribution pipe **2** feet

**SEPTIC SYSTEM DATA**

INV. AT HOUSE 514.32

| SEPTIC TANK |       | PUMP PIT |       |
|-------------|-------|----------|-------|
| EX. GRADE   | 507.1 | 507.2    | 507.2 |
| FIN. GRADE  | 507.1 | 507.2    | 507.2 |
| INV. IN     | 503.0 | 503.5    | 503.5 |
| INV. OUT    | 503.6 |          |       |

| DISTRIBUTION BOX |       |
|------------------|-------|
| EX. GRADE        | 532.5 |
| FIN. GRADE       | 532.5 |
| INV. IN          | 531.0 |
| INV. OUT         | 530.8 |

| TRENCHES   | #1    | #2    | #3    |
|------------|-------|-------|-------|
| EX. GRADE  | 532.5 | 531.9 | 531.1 |
| FIN. GRADE | 532.5 | 531.9 | 531.1 |
| INV. IN    | 520.5 | 529.9 | 529.1 |
| BOTTOM     | 520.5 | 527.9 | 527.1 |
| LENGTH     | 85'   | 85'   | 75'   |

Approved Septic System Plan  
 Howard County Health Department  
 Mark R. [Signature] 9/20/01  
 Signature Date

NOTE: MAINTAIN MINIMUM 1.5' MINIMUM COVER OVER PIPE.

SHANABERGER & LANE  
 8726 TOWN & COUNTRY BLVD.  
 SUITE 201  
 ELLICOTT CITY, MD. 21043  
 (410) 461-9563

SITE PLAN  
 SECOND REVISED LOT 55  
 KING'S GIFT

TAX MAP 16 BLOCK 15 PARCEL 372  
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MD.  
 SCALE: 1"=50'  
 JULY 5, 2001  
 REV. JULY 26, 2001  
 F:\ACADWIN\87147-55.DWG

EX. 12" WATER MD ROUTE 144  
 CONTRACT # 44-2478 (LOCATION FROM AVAILABLE PLANS OF RECORD)

110 LF. 30" I.D. STEEL SLEEVE

EXISTING PAVING PER AVAILABLE PLANS OF RECORD

Signed PERC CERT  
5/4/98

18" CMP

55

540  
60'

306

3034

30'

B.R.L.

3038

535.5

3037

301

520

LINE

FRANT  
TER  
VE

540

WELL TO BE  
EXHAUSTED

305

302

30'

B.R.L.

EVAL  
SE  
ARE  
SE

ROAD

B.R.L.

B.R.L.

30'

30'

B.R.L.

B.R.L.

B.R.L.

30'

70'

B.R.L.

60'

H

# APPLICATION

2/6/98  
10:30

## PERCOLATION TESTING

A 59282

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

PROVISION OF  
PROPOSED LOT LAYOUT FIG.  
NOT SEASON TEST W  
(PLAN PENDING) (CW)  
PUBLIC WATER

P \_\_\_\_\_  
DISTRICT \_\_\_\_\_  
DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER JEAN R. DICKEY, INDIVIDUALLY & JEAN R. DICKEY INTER-VIVOS TRUST

ADDRESS 13850 FORSYTHE ROAD PHONE 410-442-2226  
SYKEVILLE, MD 21794

AGENT OR PROSPECTIVE BUYER SHANABERGER & LANE

ADDRESS 8726 TOWN & COUNTRY BLVD. PHONE 410-461-9563

### PROPERTY LOCATION:

SUBDIVISION KING'S GIFT LOT NO. 54, 52, 55

ROAD AND DESCRIPTION NORTH OF RT. 144, EAST OF THOMPSON DRIVE

TAX MAP 16 PARCEL # 371

SIZE OF LOT 5 AC. ± TYPE BLDG. SFD  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. [Signature]  
(SIGNATURE OF APPLICANT)

APPROVED BY [Signature] FOR SFD DATE 5/1/98

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

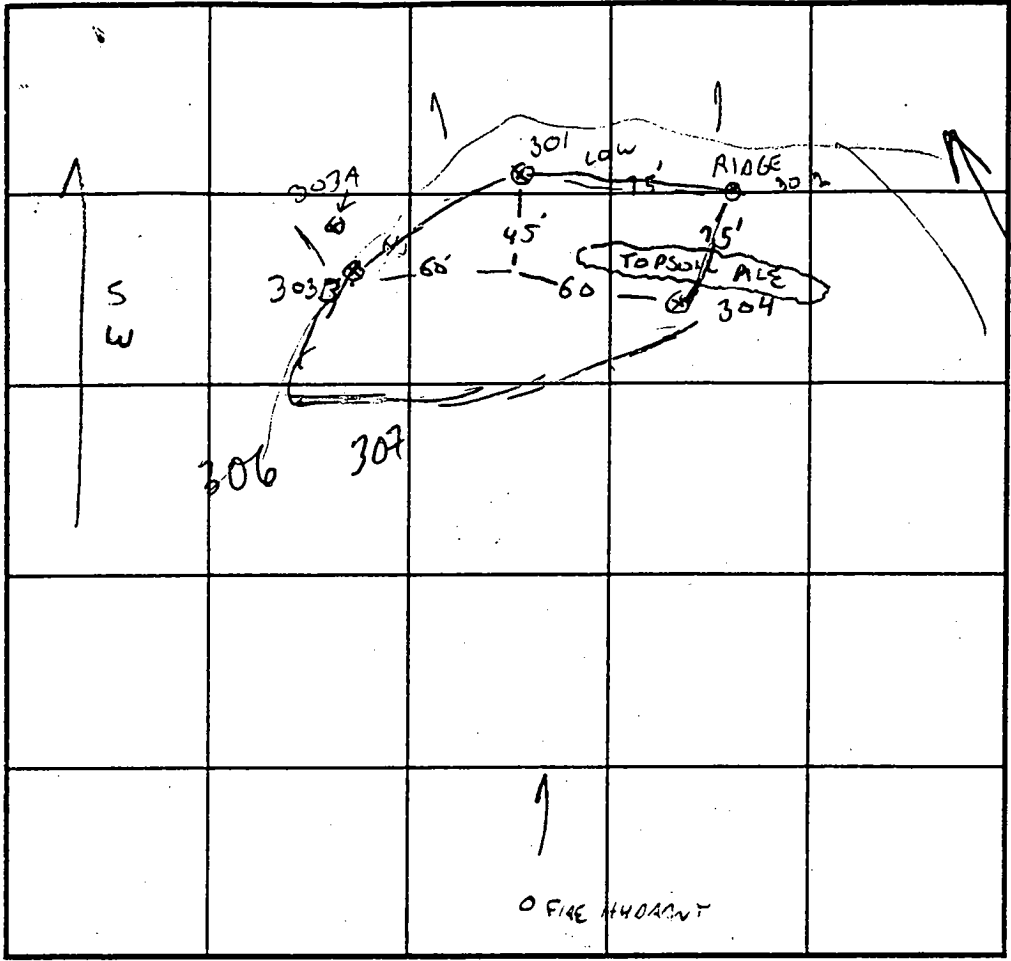
PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

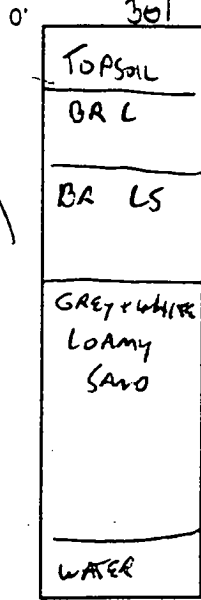
# THIS IS NOT A PERMIT

A59282

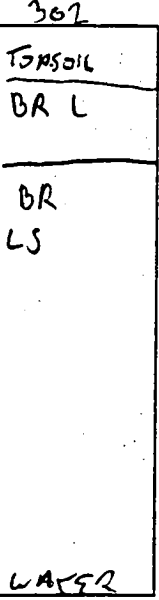
COUNTY #



SOIL PROFILE



SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.  
 MAIN SUBDIVISION ACCESS ROAD TO 144 →

| DATE    | TEST NO. | DEPTH                                                   | PRE-WET |      | TEST - 1" DROP |      | TIME  |  |
|---------|----------|---------------------------------------------------------|---------|------|----------------|------|-------|--|
|         |          |                                                         | START   | STOP | START          | STOP |       |  |
| 3/25/98 | 301      | 2/10                                                    | 1:44    | 1:45 | →              | 1:47 | 2 MIN |  |
|         | 302      | 6/10                                                    | 1:52    | 1:55 | →              | 1:58 | 3 MIN |  |
|         |          | 2.5/10                                                  | 1:54    | 1:55 | →              | 1:57 | 2 MIN |  |
|         | 303B     | 2/10                                                    | 2:03    | 2:07 | →              | 2:12 | 5 MIN |  |
|         | 304      | 4/12                                                    | 2:17    | 2:19 | →              | 2:22 | 3 MIN |  |
|         | 303A     | NOT TESTED, WATER AT ± 7' DEEP CLAY INFLUENCED BY SLICE |         |      |                |      |       |  |

CLAY 6-8 IN ON SIDE OF HOLE

8.5

304  
 NO TOPSOIL OR CLAY  
 ORANGE TAN LAYERED LOAM

4

TAN LOAM

SAND BEACH W/ E/W OF 40 FEET ± 7'

12

WATER

REMARKS: 2-3' SOIL REMOVED PREVIOUSLY IN ENTIRE AREA

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT K+K EXCAVATING

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 4 MIN TRENCH WIDTH 3

INLET DEPTH 2 MAXIMUM BOTTOM DEPTH 4 SQ. FT./BEDROOM 180

# APPLICATION

PERCOLATION TESTING

A 59282

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

*PERCOLATION OK  
PROPOSED LOT RECONSTRUCT  
WET SEASON TEST W  
(PLAN PENDING) (LW)  
PUBLIC WATER*

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

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(SIGNATURE OF APPLICANT)

APPROVED BY [Signature] FOR SFO DATE 5/1/98

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

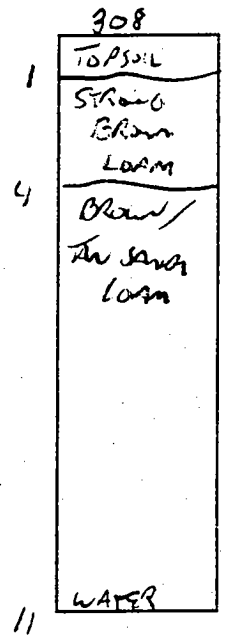
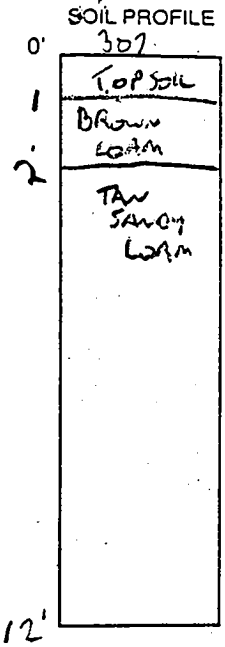
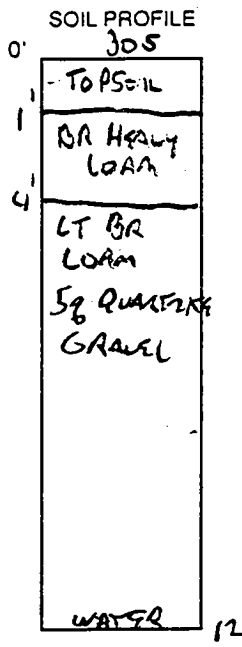
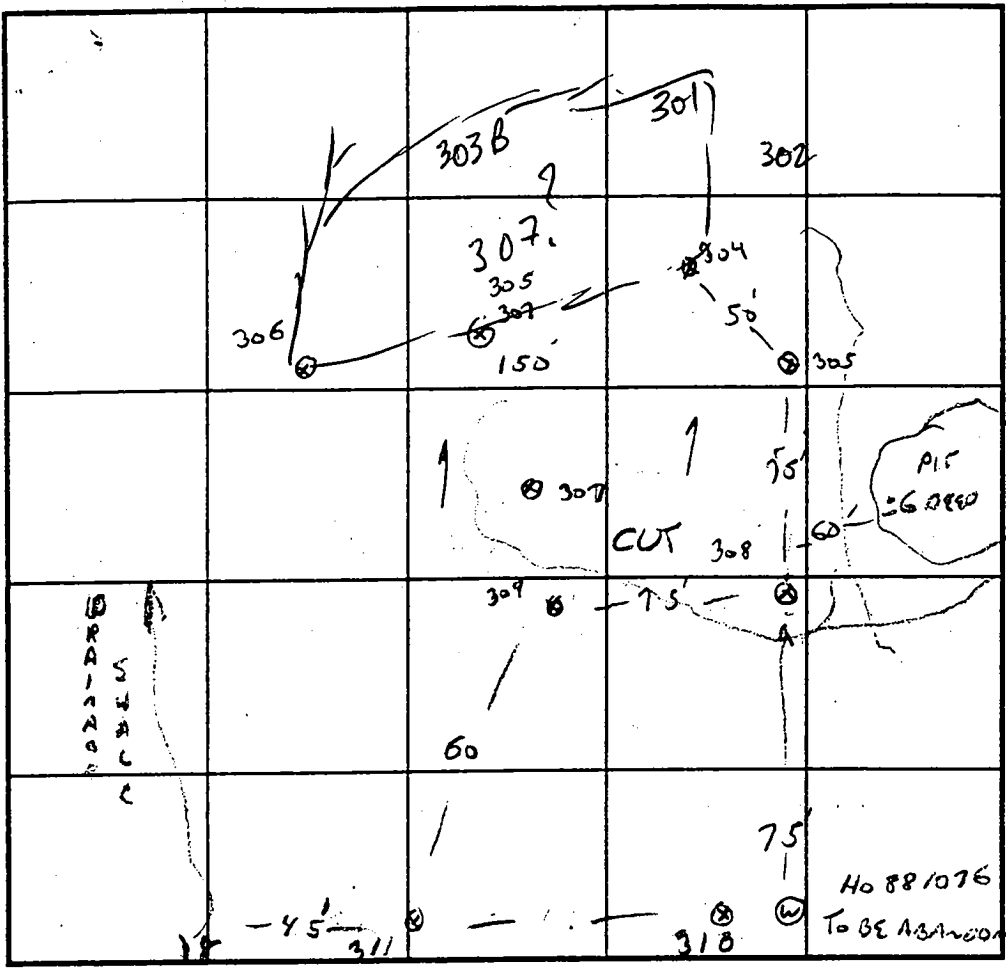
HOLD PENDING FURTHER TESTS \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.  
SUBDIVISION ACCESS ROAD

| DATE    | TEST NO. | DEPTH    | PRE-WET    |      | TEST - 1" DROP |      | TIME   |
|---------|----------|----------|------------|------|----------------|------|--------|
|         |          |          | START      | STOP | START          | STOP |        |
| 2/25/98 | 305      | 4 / 12V  | 2:28       | 2:58 | →              | SLOW |        |
|         | 306      | 3 / 11.5 | 2:36       | 2:39 | →              | 2:45 | 6 MW   |
|         | 307      | 12V      | OK 2-8     |      | WATER @ 12'    |      | OK     |
| REGIG   | 305      | 5.5      | 3:06       | 3:13 | →              | 3:32 | 19 MIN |
|         | 308      | 4.5 / 11 | 3:07       | 3:12 | →              | 3:18 | 6 MW   |
|         | 309      | 12V      | DRY OK 3-8 |      |                |      | OK     |
|         | 310      | 12V      | DRY OK 4-8 |      |                |      |        |
|         | 311      | 3.5 / 12 | 3:29       | 3:34 | →              | 3:39 | 5 MW   |
|         |          | 6        | 3:29       | 3:31 | →              | 3:34 | 3 MW   |

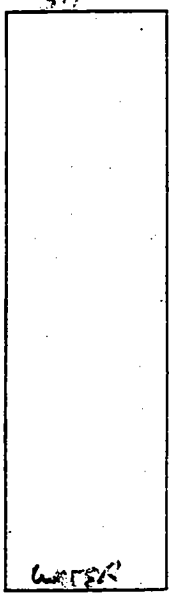
REMARKS WELL IS 15' OFF RW / WATER LINE ±

TYPE OF SOIL \_\_\_\_\_

TESTED BY G. SAVAGE ALSO PRESENT A+K EXCAVATING

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_



# Anderson CABANA

11674 Frederick Road  
Ellicott City, Maryland 21042

## Site Plan Construction Notes

5. Concrete protection for reinforcement (cast-in-place concrete) - provide the following minimum concrete cover for reinforcement:  
Concrete Cast Against and Permanently Exposed to Earth (Footings, Grade Beam Bottoms).....3"  
Welded wire mesh shall be placed at mid-depth of slab or 2 inches below the top surface, whichever is less.

MASONRY  
1. Hollow concrete block used in walls shall conform to ASTM C-90. Solid masonry units shall conform to ASTM C145. Mortar for masonry shall conform to ASTM C270, Type M. Reinforced masonry walls shall be built so that all cells line up. Walls of units to be reinforced and/or filled with grout or concrete shall have full mortar coverage.  
2. Provide continuous truss-type horizontal joint reinforcing "Bar-O-Wall" or equivalent, in all masonry walls at 16" O.C. vertically, at mortar joints above and below an opening, and at horizontal joints with wall ties to steel beams. Where walls abut each other, and at outside corners, provide prefabricated tee-type and corner truss ties.  
3. Brick veneer spanning above wall openings shall be supported with steel angles having 4" minimum bearing on each end, in accordance with the following:

Lintel Schedule:  
Span to 3'-1"  
3-1/2" x 3-1/2" x 1/4"  
Span to 6'-1"  
6" x 3-1/2" x 3/8"  
Span to 8'-1"  
5" x 3-1/2" x 7/16"

4. Provide 28 GA galvanized masonry ties for brick veneer @ 18" vertically and 32" horizontally.  
5. Brick for brick veneer shall be exterior grade, type SW, mortar for brick veneer shall be Type S.  
6. Provide weep holes in brick veneer at base course, 32" O.C.

7. All precast lintels in masonry walls shall be precast concrete (minimum fc = 5000 psi) as follows for each 4" of wall thickness or fraction thereof (unless noted otherwise):  
SPANS  
PRECAST LINTEL SIZE  
Under 6'-0"  
6" deep with 1 #5 Bar Top & Bottom  
6'-0" to 12'-0"  
16" deep with 1 #6 Bar Top & Bottom

Precast lintels shall be same width as walls supported. Minimum end bearing 6" for all precast lintels specified above.

REINFORCING STEEL  
1. Reinforcing bars shall be deformed billet steel conforming to ASTM A615, Grade 40, except that column and pier ties may conform to ASTM A618, Grade 40. Bars shall be branded by the manufacturer with bar size and grade of steel and certified mill reports shall be submitted for record. Reinforcing steel shall be detailed in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures", Latest Edition.  
2. Provide corner bars at junctions of concrete walls and grade beams and lap with wall reinforcing as shown in typical details, size and spacing of corner bars to be same as horizontal wall reinforcing, unless shown otherwise. Where continuous bars are required, they shall run continuously around corners and lapped as necessary. Provide standard hooks at discontinuous ends. Laps shall not be less than the splice lengths as given in ACI-318. Generally lap top bars at mid span and bottom bars at supports. Provide placing accessories in accordance with ACI recommendations.

3. All welded wire fabric shall conform to ASTM A-185. Provide 6 x 6 - 10/10 welded wire fabric in all slabs on grade unless otherwise noted.  
MISCELLANEOUS STEEL  
1. Miscellaneous structural steel shall conform to the latest edition of the AISC "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", and shall be ASTM A36. Bolts shall be high strength 3/4" diameter conforming to ASTM A325. Welding shall be done only by certified welders. Weld in accordance with the AWS "Standard Code for Arc and Gas Welding in Building Construction". Structural steel surfaces cast into concrete shall be unpainted.  
2. All pipe column base plates shall be PL 3/8 x 8" x 8" with 2-1/2" anchor bolts unless otherwise noted. All pipe column cap plates shall be PL 3/8 x 6" x 8" with 2-1/2" anchor bolts unless otherwise noted.  
3. All steel beams shall have a wood 2x plate secured to the top flange by 1/2" bolts 24" O.C. staggered or power driven fasteners.

GENERAL SPECIFICATIONS:  
1. General Data  
1.1 Work: The term work as used in these notes shall include all provisions as drawn or specified in these documents as well as all other provisions specifically included by the owner in the form of drawings, specifications, and/or written instructions which have been coordinated through the architect.  
1.2 Codes and Regulations: The work shall comply with all applicable local and state codes, ordinances, regulations and amendments - including but not limited to APA and all other authorities having jurisdiction, where applicable. The work shall comply with interpretations of the local building officials. If the interpretation is at a variance with these documents, the contractor shall inform the architect prior to proceeding. In the event of conflict between local, state, and national codes, the most stringent shall govern.  
1.3 Field Conditions and Dimensions: To be verified before proceeding with work. Field dimensions of existing conditions supersede any dimensions on the drawings. Notes and dimensions supersede any dimensions scaled from these drawings. Notify the architect of any discrepancy prior to proceeding with work.  
1.4 Typical Conditions: The general notes and any applicable details apply throughout unless indicated otherwise. Where conditions are not specifically shown or detailed, the character and quality of the work shall be the same as that indicated for same conditions.  
1.5 Clarification: of the drawings and specifications may be requested from the architect at any time prior to or during construction.  
1.6 Safety and Supervision: safety and care of adjacent properties during construction, compliance with state and federal regulations regarding safety and accessibility. All construction means, methods, techniques, and procedures are the contractor's responsibility.  
1.7 Site Visits: made by the architect during the construction per contractual agreement with the owner, shall in no way limit the liability of the contractor nor transfer any liability to the architect. Such visits shall not be construed as acceptance of work contrary to the drawings, specifications, and/or written instructions for the work. Furthermore, the site visit shall in no way be considered - inspection of the work.  
1.8 Product Literature and Manufacturer's Recommendations: shall be compiled with - this includes the manufacturer's or fabricator's instructions and/or recommendations for the preparation of substrate and installation and use of materials.  
1.9 Temporary Bracing: provide adequate temporary bracing as required to stabilize the structure until permanent construction is sufficiently complete.  
1.10 Cleaning: contractor shall maintain a clean and safe work area without obstruction and inconvenience to existing tenants and neighboring properties, and thoroughly clean inside and outside of reserved space upon completion of work. All equipment shall be in proper operating condition. All glass and floors shall be polished.

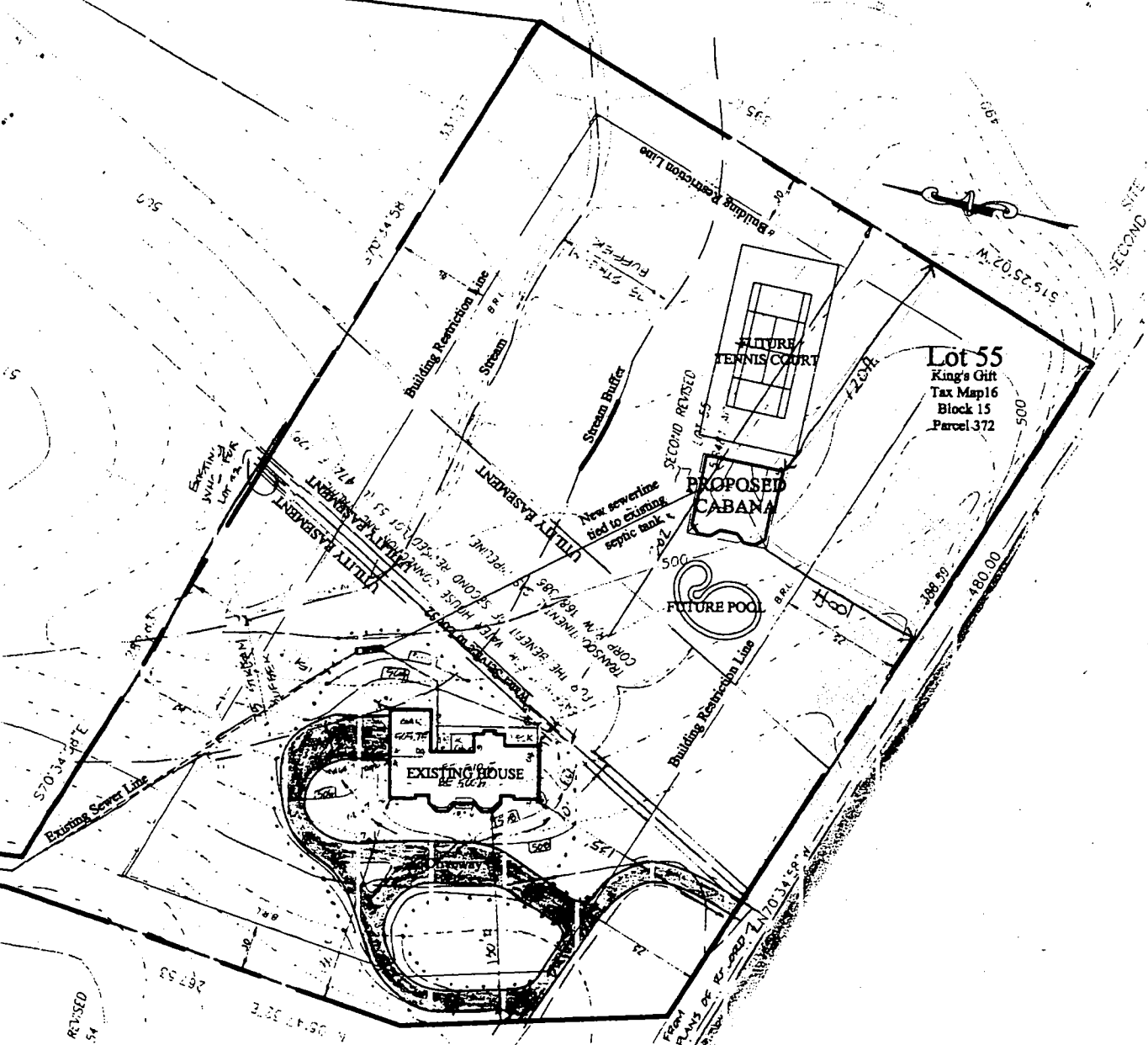
20. All sub-flooring to be glued and screwed to floor joists.  
21. Wood columns and posts shall be framed to true end bearings and shall be positively anchored to foundation with approved post bases. Support column and post securely in position and protect base from deterioration. Columns and posts of treated wood may be placed directly on concrete or masonry.  
22. Bear beams and girders at least 4" on masonry or concrete. Bear beams, girders, joists, rafters and trusses on continuous wood walls secured with 1/2" diameter bolts @ 48" O.C. x 18" long, unless otherwise noted. Floor joists, ceiling joists and roof rafters shall have 4" nominal bearing on wood or wood plates on metal or masonry.  
23. Provide 2" nominal thickness full depth solid blocking for joist and rafters at ends and at supports. Omit solid blocking when joists are nailed to a continuous header. Lap joists framing from opposite sides of a beam, girder, or partition at least 6". Secure joists framed end to end with metal straps. Use approved framing anchors to support joists framing into the sides of wood or steel beams. Fasten solid wood blocking to steel beam web with 2 rows of 1/2" diameter through bolts @ 18" O.C. prior to installing joist hangers. Fasten 2 x 6 bearing plate to top flange of steel beams supporting wood joists; use 1/2" diameter bolts, 16" O.C. staggered along web. Provide doubles (or equivalent cross-section) trimmer and header joists from framing anchors or joist hangers unless bearing on a beam, partition or a wall. Joist carrying partitions parallel to joists shall be doubled.  
24. Headers shall be provided at openings in exterior walls and bearing partitions unless noted otherwise. See Framing Plans.  
25. All exterior decking material shall be pressure treated. All exposed exterior framing shall be treated, Volcanized or equivalent.

FOUNDATION NOTES  
1. Finished floor elevations are noted on the plans.  
2. Presumptive bearing is 2500 psi in original undisturbed soil of this bearing value. This value of presumptive bearing is to be verified in the field by a registered, professional soils engineer.  
3. Minimum depth of footing bottoms to be 2'-6" into original soil or on controlled fill. When establishing the elevation of original soil, care should be taken to establish that there is no rubble, etc. below this depth.  
Any excavating at footings below established depth shall be filled with concrete as part of this work. Exterior (exposed) wall footings shall be 30 inches minimum below finished grade. Maintain 1:1 slopes from bottom edge of footing to bottom of any adjacent elevation.

4. Footing reinforcing to be continuous and/or lapped a minimum of 30 bar diameters. At corners, intersections, etc. 5. A backfill under the slab on grade, and elsewhere, if required, to be compacted to 98% maximum dry density for cohesive soil and 95% for granular soil in accordance with ASTM D-1557.  
6. Provide adequate shoring for retaining and pit walls. Brace pit walls until supporting floors above are in place and have attained design strength. Do not backfill walls until floors at the top and base of the walls are in place. Where backfill is required, on both sides of the wall, backfill both sides simultaneously with the grade difference not to exceed 2'-0" at any time.  
7. In areas below the building's slabs and adjoining exterior slabs, etc. plus 10 feet beyond where fill is required, the following procedures will be followed: All top soils, existing fill and any organic material will be removed. After removal of the top soils, etc., the remaining exposed area shall be certified by the soils engineer to have a presumptive minimum bearing value of 2500 psi whether it is to receive fill or is at a proper grade without fill. This area is then to be brought up to grade as required, by suitable fill material approved by the soils engineer. The soils engineer will also be responsible for certifying that all the in place controlled fill in these areas has a minimum presumptive bearing value of 2500 psi.

CONCRETE (CAST-IN-PLACE)  
1. All structural concrete has been designed in accordance with the requirements of ACI 318-83.  
2. Minimum ultimate compression strength of concrete at 28 days shall be as follows:  
Slabs on Grade 3000 psi  
Pre-Cast Concrete (or Grout) 2500 psi (for filling CMU units)  
All Other Concrete 3000 psi (unless noted otherwise)  
3. All exterior concrete and concrete exposed to weather shall be air-entrained with a 28 day compressive strength of 3500 psi, including garage slabs.  
4. Slabs poured on grade shall be minimum 4" thick, placed over vapor barrier and 4" washed gravel unless noted otherwise. Slabs on grade shall be reinforced with 6 x 8 - 10/10 welded wire fabric placed at mid-depth of slab. Lap welded wire fabric one full mesh at ends and sides.

Structural Notes  
LIVE LOADS  
Roof 30 psf  
Floors 40 psf  
Sleeping Room 40 psf  
Balconies & Decks 60 psf  
Stairs 100 psf  
Attic 30 psf  
Ground Snow 30 psf  
WIND  
Speed 90 MPH  
Exposure B  
Importance Factor 1.0  
SEISMIC  
Design Category A  
Site Class (Approximated) D  
Importance Factor 1.0  
LUMBER  
1. Lumber shall comply with the requirements of American Institute of Timber Construction and the National Forest Products Association's National Design Specification for wood construction.  
2. Metal plate connected roof and floor truss shop drawings shall be furnished by the manufacturer and shall include certification by a professional engineer registered in Maryland. Design and general arrangement are subject to the review of the Architect.  
3. Design, fabrication and installation of metal plate connected trusses (MPTC) shall be in accordance with the National Design Specification for stress grade lumber and its fastening and the specification for light metal plate connected wood trusses (TFL). Trusses are to have minimum nominal 3" of end bearing.  
4. Truss manufacturer to confirm actual dimensions before fabrication.  
5. Truss manufacturer must be able to provide evidence of structural calculations and verification of structural connections if requested.  
6. Roof trusses shall be fastened to bearing walls with 20 gauge hurricane clips.  
7. All roof trusses are to have horizontal bearing ends supplied and permanently attached to the trusses by the truss manufacturer. However, braced bearing plates attached to the wall plate may be used for trusses with pitches up to 1' in 12".  
8. Lumber for stud bearing walls and exterior stud walls shall be Hem Fir No. 2, 19% Moisture Content or better.  
9. Header and lintel framing, and all floor framing to be Southern Yellow Pine #2 grade, 19% Moisture Content lumber with minimum Fb=1550 psi and E=1.8 x 10<sup>6</sup> psi or equivalent.  
10. All lintel header / beam jacks, posts and columns to have properties equivalent to Hem Fir No. 2, 19% Moisture Content. All jacks required but not noted on the plans are to be the same size (width) as the wall in which they are installed and in quantity as noted in the following schedule:  
4'-0" Opening - 1 Jack Each End  
6'-0" Opening - 2 Jacks Each End  
8'-0" Opening - 3 Jacks Each End  
NOTE: All jacks or posts are to line up with those at the floor below even when jacks are not required by framing of the floor below. That is, all jacks or posts above are to be continuous, or increased as shown, to solid blocking supported at a lower bearing plank.  
11. All stud wall corners shall be braced by 2" (width) x 10 gauge zinc-coated steel plate conforming to ASTM A446 Grade A, 16 specifications. Wall bracing is pre-punched to accept both 8d and 16d common nails. Ends are mitered at 45° angle to facilitate installation. Bracing is attached with 16d common nails in top and bottom plates and 8d common nails in each intersecting stud.

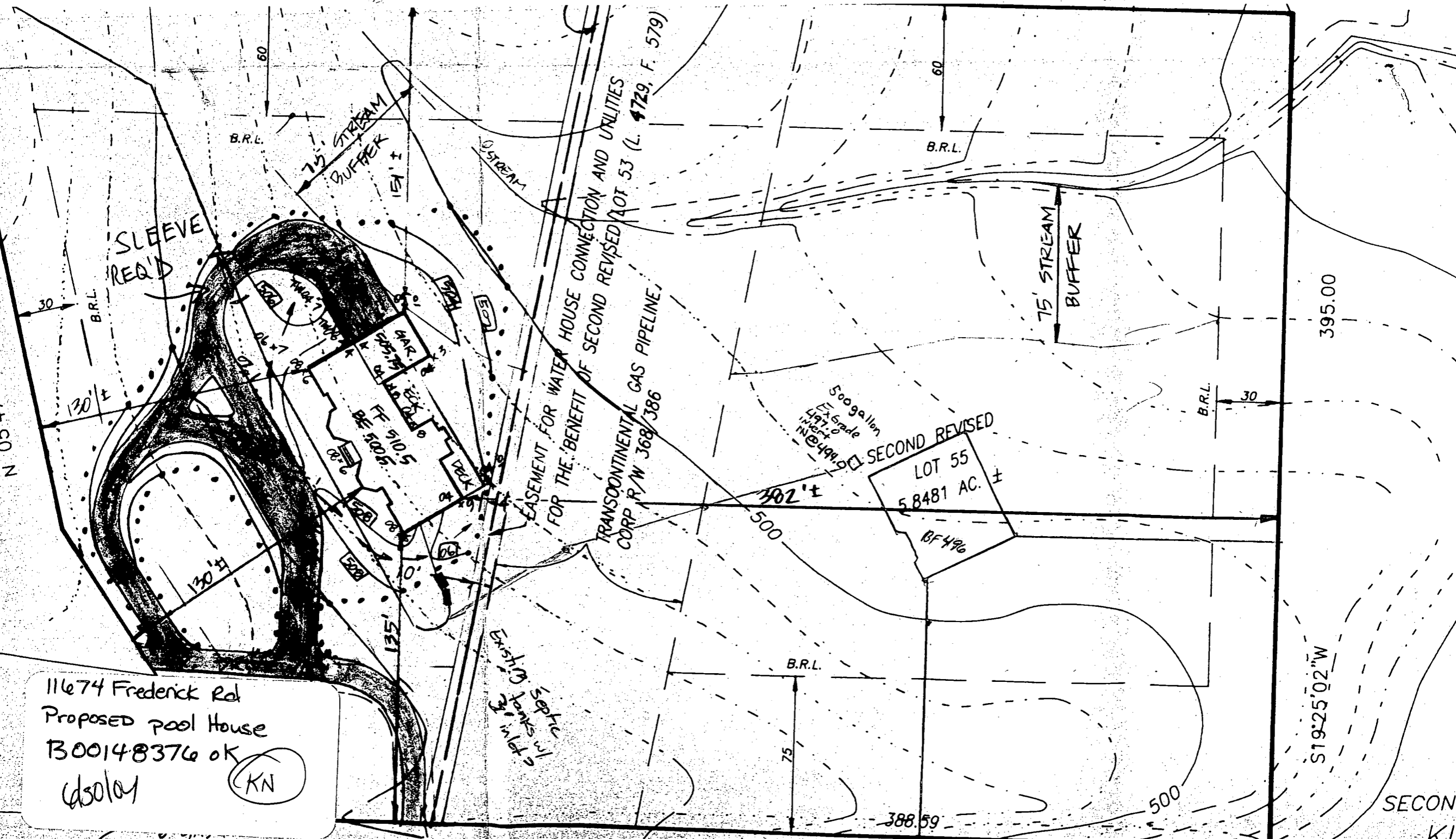


## SITE PLAN

Scale: 1" = 100'

6/11/04  
NEED INVERT ELEVATIONS  
TIEING INTO Ex. line.  
Proposed pool house OK.  
(KN)

6/8/04 KN called again  
for invert & septic tank  
loc.



11674 Frederick Rd  
 Proposed pool House  
 B00148376 OK  
 Wsola  
 (KN)

AVAILABLE PLANS OF RECORD N70°34'58"W

SECOND KIN