

# APPLICATION

SEWAGE DISPOSAL TESTING

A 35683

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 992-2330

DISTRICT 3

DATE 6/20/83

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

OWNER: Phillip Dorosh  
Purchaser Patrick McCreary  
PROPERTY OWNER

1000 Equitable Bank Ctr.

ADDRESS Columbia, MD 21044

PHONE 730-9091

PROPERTY LOCATION:

SUBDIVISION Gaither Farm

LOT NO. 24 (NEW TEST PLAT)

ROAD AND DESCRIPTION Homewood Rdr and Rte. 108

SIZE OF LOT 3 acres

TYPE BLDG. 3-5

(NUMBER OF BEDROOMS)

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.

Christine Richards

(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

REASONS FOR REJECTION OR HOLDING 7/9/85 D16 MORE WATER & SLOW

7-18-85 PERC SATISFACTORY; NEEDED ADDITIONAL #1 FOR SEPTIC AREA; HOLD FOR

CERTIFIED SUBDIVISION PERM 7-19-85 SUFFICIENT AREA OBTAINED. S/AL

# THIS IS NOT A PERMIT

Lot 24

SOIL PROFILE

0'


X Perc 10min

Inlet ~~4.0~~ 4.0  
 Bottom ~~6.0~~ 6.0

190 P/BR

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7/19/85	7 S M (14)	5' 9'	1:08 1:08				
	8 V	ROCK AT	4'				
	✓ 9 S M (13)	5' 9'	2:19 2:19	2:24 2:22	2:24 2:22	2:35 2:27	11 MIN 5 MIN

REMARKS \_\_\_\_\_

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

TESTED BY S. Hul ALSO PRESENT \_\_\_\_\_

EH-12-1079

# APPLICATION

SEWAGE DISPOSAL TESTING

A 35683

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HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 992-2330

DISTRICT 3

DATE 4/20/85

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

*owner: Phillip Bush*  
*Purchaser Patrick Finc Cusan*  
PROPERTY OWNER Patrick Finc Cusan  
1000 Equitable Bank Ctr.  
ADDRESS Columbia, MD 21044

PHONE 730-9091

PROPERTY LOCATION:

SUBDIVISION Gaither Farm LOT NO. ~~27~~ 25  
ROAD AND DESCRIPTION Home Wood Rdr and Rte. 108

SIZE OF LOT 3 acres TYPE BLDG. 3-5  
(NUMBER OF BEDROOMS)

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WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Christine Richards  
(SIGNATURE OF APPLICANT)

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REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

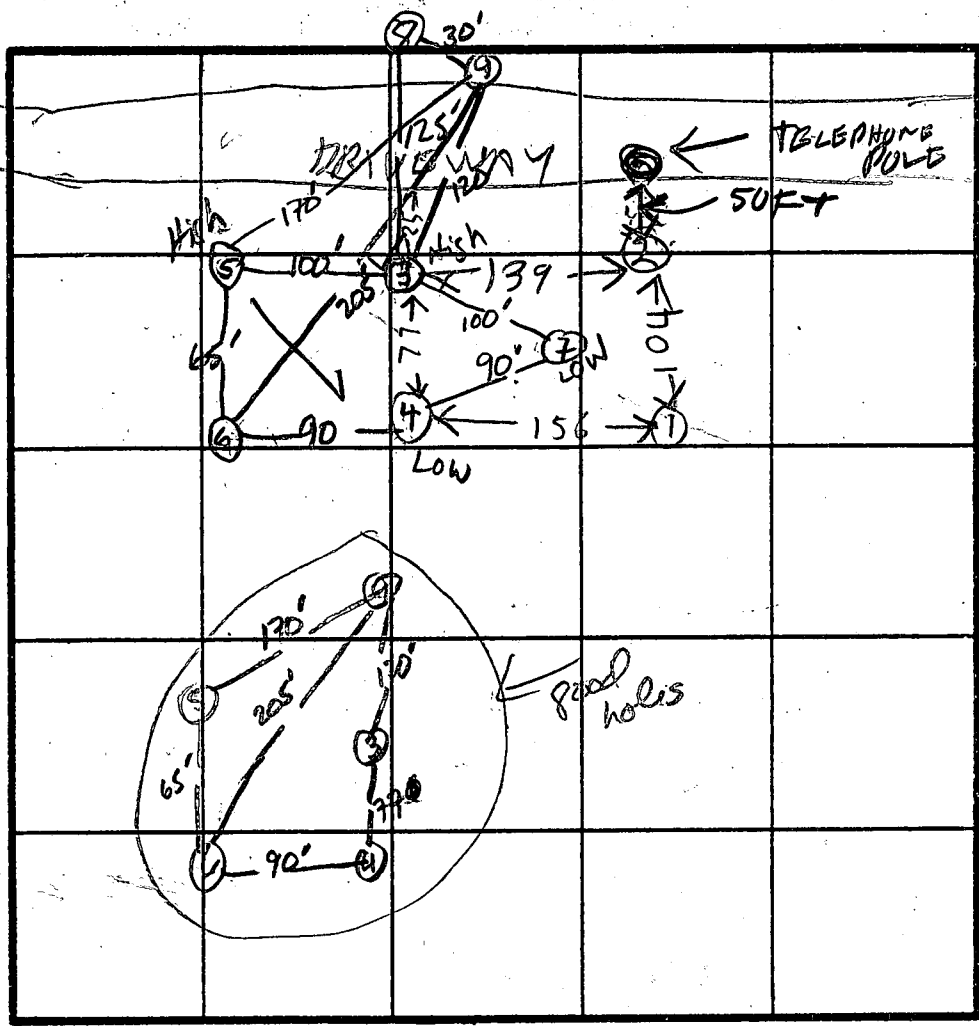
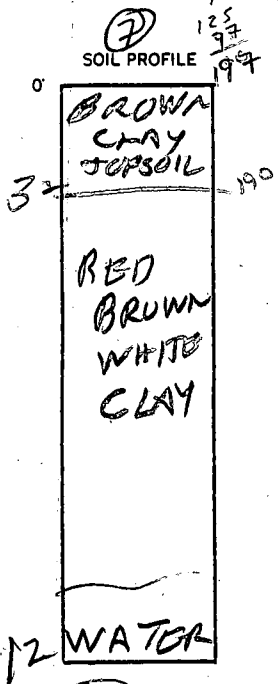
HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

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

# THIS IS NOT A PERMIT

EXIST 1100'

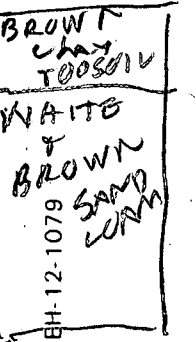
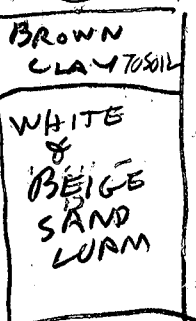
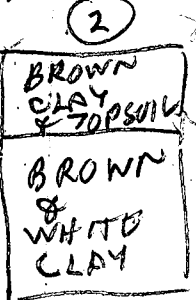
Lot 24



EXIST HOUSE

G2  
90  
6

- HOLE ELEVATION
- ① = LOWEST
  - ② = NEXT LOWEST
  - ③ = HIGHEST
  - ④ = NEXT HIGHEST



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7/9/05	1 S	4	3 12	400	LITTLE PERC		
	1 X	8	3 12	400	LITTLE PERC		
	1 V	12	WATER		12	UNSAT	
	2 S	4	3 13	400	LITTLE PERC		
	2 D	8	3 13	400	LITTLE PERC		
	2 V	13	LOOKS		UNSAT		
	✓ 3 S	5.5	3 22	3 26	3 26	3 33	7
	✓ 3 D	9	3 22	3 26	3 26	3 36	10
	✓ 3 V	14	LOOKS		OK		
	✓ 4 S	4.5	3 24	3 59	3 37	3 49	12
	✓ 4 D	9	3 24	3 37	3 37	3 49	12
	✓ 4 V	12	LOOKS DOUBTFUL		TEST MORE		
	✓ 5 S (12)	4.5	2:45	2:57	2:57	3:19	22min
		9'	2:45	2:50	2:50	2:59	9min
	✓ 6 S (12)	4.5	2:46	2:49	2:49	2:56	7min
		9'	2:46	2:48	2:48	2:54	6min

REMARKS

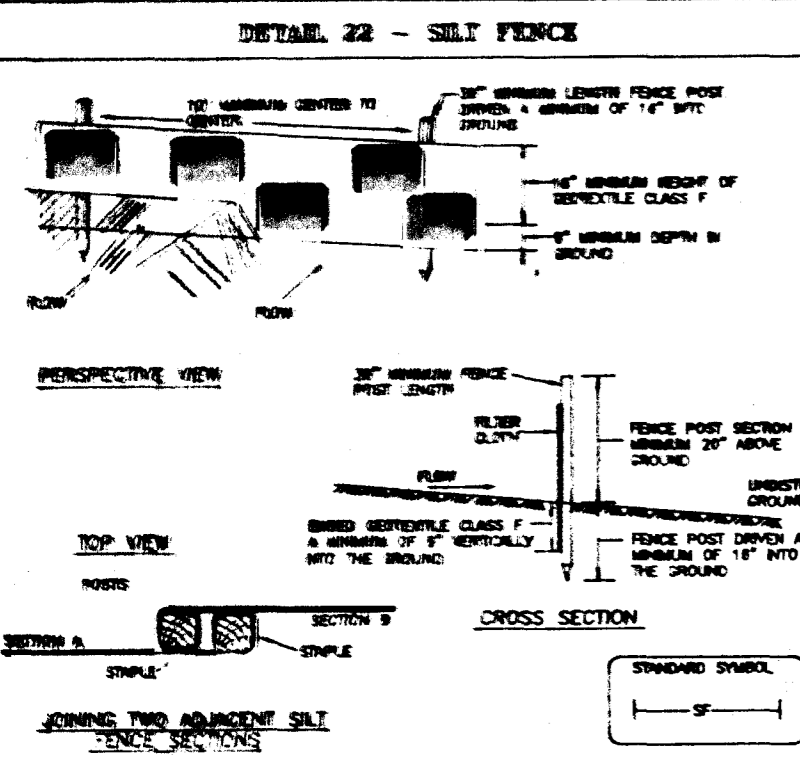
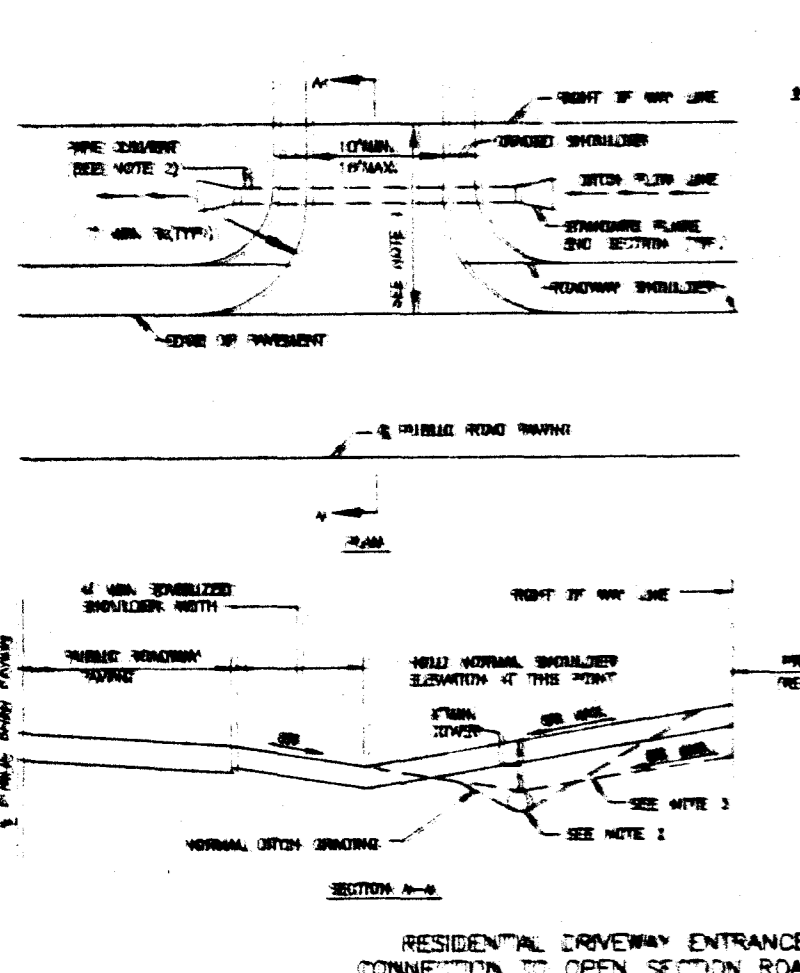
TYPE OF SOIL SIDE HERE ALSO

TESTED BY R HODGES

DAVE & LONNIE OF RLO BACK

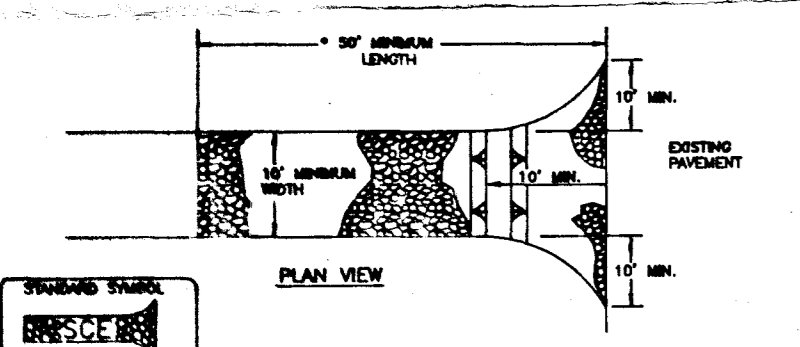
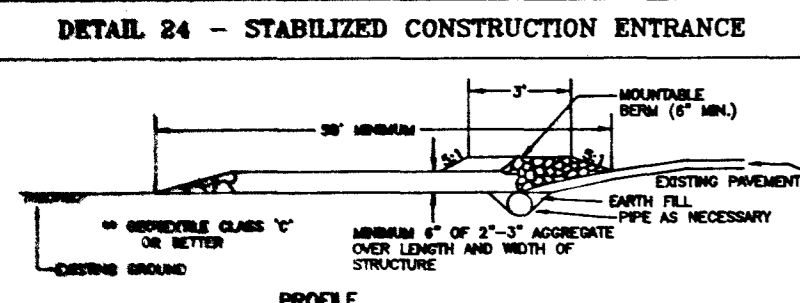
ALSO PRESENT

24  
43  
12  
60  
32



**CONSTRUCTION SPECIFICATIONS**

1. DRIVEWAY SHALL BE PAVED FROM EDGE OF PUBLIC ROAD TO RIGHT OF WAY LINE USING STANDARD PAVING SECTION P-11 AS SHOWN ON STD. NO. 101 OR EQUIVALENT SECTION EQUAL TO OR BETTER THAN P-11, AS APPROVED BY D.P.W.
2. DRIVEWAY CURB SHALL BE SEED FOR A 10 YEAR FREQUENCY STORM AND THE MINIMUM SIZE SHALL BE 12" DIA. ROUND OR 14" DIA. ARCH PIPE IF ARCH PIPE IS REQUIRED. DITCH SHALL BE 12" WIDE AND 12" DEEP. DITCH SHALL BE LOCATED TO THE RIGHT OF THE DRIVEWAY AND SHALL BE SEED AS SHOWN ON THE PLAN.
3. DRIVEWAY SHALL BE FINISHED TO THE CREST OF VERGICAL CURVES ON THE PUBLIC ROAD WHERE QUANTITY OF FLOW IS SMALL AS APPROVED BY D.P.W.
4. E IN GRADE OF PRIVATE DRIVEWAY SHALL NOT EXCEED 14%.



**CONSTRUCTION SPECIFICATIONS**

1. LENGTH - MINIMUM OF 50' (50' FOR SINGLE RESIDENCE LOT).
2. WIDTH - 10" UNIFORM, SHOULD BE PLACED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. SURFACE FINISH (PREFER CEMENT) SHALL BE PLACED OVER THE EXISTING GRADE PRIOR TO PLACING STONE. STONE SHALL BE 3" DIA. OR LARGER. STONE SHALL BE PLACED IN A SINGLE FAMILY RESPONSE TO THE SETBACK.
4. STONE - CRUSHED AGGREGATE 6" TO 3" OR RECLAIMED OR RECYCLED CONCRETE. EQUIVALENT SHALL BE PLACED AT LEAST 8" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE DIVERTED THROUGH THE ENTRANCE. MAINTAIN POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MINIMUM OF 12" OF STONE OR OTHER PROTECTIVE MATERIAL. PIPE SHALL BE LOCATED AT A HIGH SPOT AND SHALL BE CHANGED TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SEED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM WILL BE REQUIRED.
6. LOCATION - STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. UNLESS LEAVING THE SITE MUST TRAVEL OVER THE OTHER LEAVES OF THE STABILIZED CONSTRUCTION ENTRANCE.

REVIEWED FOR HOWARD SOIL AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

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

Jim Meyer / G 4/17/03

Robertson / G 4/17/03

USDA / NATURAL RESOURCES CONSERVATION SERVICES DATE

HOWARD SCD DATE

**NOTES**

1. TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM 1"=200' HOWARD COUNTY AERIAL TOPOGRAPHY.
2. DESIGNATES APPROVED PERC TEST
3. DESIGNATES CALLED PERC HOLE
4. THIS AREA DESIGNATES A PROPOSED PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA. THESE IMPROVEMENTS ARE AVAILABLE TO THE PUBLIC THROUGH THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECONSTRUCTION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY THERE IS A 10,000 S.F. MINIMUM RESTRICTION ON THE SEWAGE EASEMENT.
5. DESIGNATES PREVIOUSLY APPROVED SEPTIC AREAS FROM AVAILABLE PLANS OF RECORD.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REESTABLISHED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS./ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQUARE FEET).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./1,000 SQUARE FEET) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WHEATING LOVEGRASS (.07 LBS./1,000 SQUARE FEET) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQUARE FEET) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL 218 GALLONS PER ACRE (5 GAL./1,000 SQUARE FEET) OF EMULSIFIED ASPHALT OR FLAT AREAS ON SLOPES 4 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1,000 SQUARE FEET) FOR ANCHORING.

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

**SEPTIC SYSTEM DATA**

INV. AT HOUSE 462.5

**SEPTIC TANK**

EX. GRADE 461.5  
FIN. GRADE 458.5  
INV. IN 462.0  
INV. OUT 461.7

**DISTRIBUTION BOX**

EX. GRADE 461.5  
FIN. GRADE 460.5  
INV. IN 462.0  
INV. OUT 465.8

**TRENCHES**

INLET DEPTH 4.5'  
BOTTOM DEPTH 8.0'  
WIDTH 18"  
NOTE: TRENCH LENGTH AND ORIENTATION TO BE DETERMINED BY HEALTH DEPARTMENT AT TIME OF SEPTIC SYSTEM LAYOUT INSPECTION.

MAN EXISTING PLUMBING TO BE RELOCATED TO SEWER SERVICE TO FRONT LEVEL

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INV. AT HOUSE 462.5

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MAN EXISTING PLUMBING TO BE RELOCATED TO SEWER SERVICE TO FRONT LEVEL

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LEAVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: USE ONE OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS PER ACRE DELOMITIC LIMESTONE (92 LBS./1,000 SQUARE FEET) AND 800 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (91 LBS./1,000 SQUARE FEET)
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DELOMITIC LIMESTONE (92 LBS./1,000 SQUARE FEET) AND 1,000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./1,000 SQUARE FEET) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WHEATING LOVEGRASS (.07 LBS./1,000 SQUARE FEET) FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQUARE FEET) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL 218 GALLONS PER ACRE (5 GAL./1,000 SQUARE FEET) OF EMULSIFIED ASPHALT OR FLAT AREAS ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS DISCING OR OTHER RESEEDINGS.

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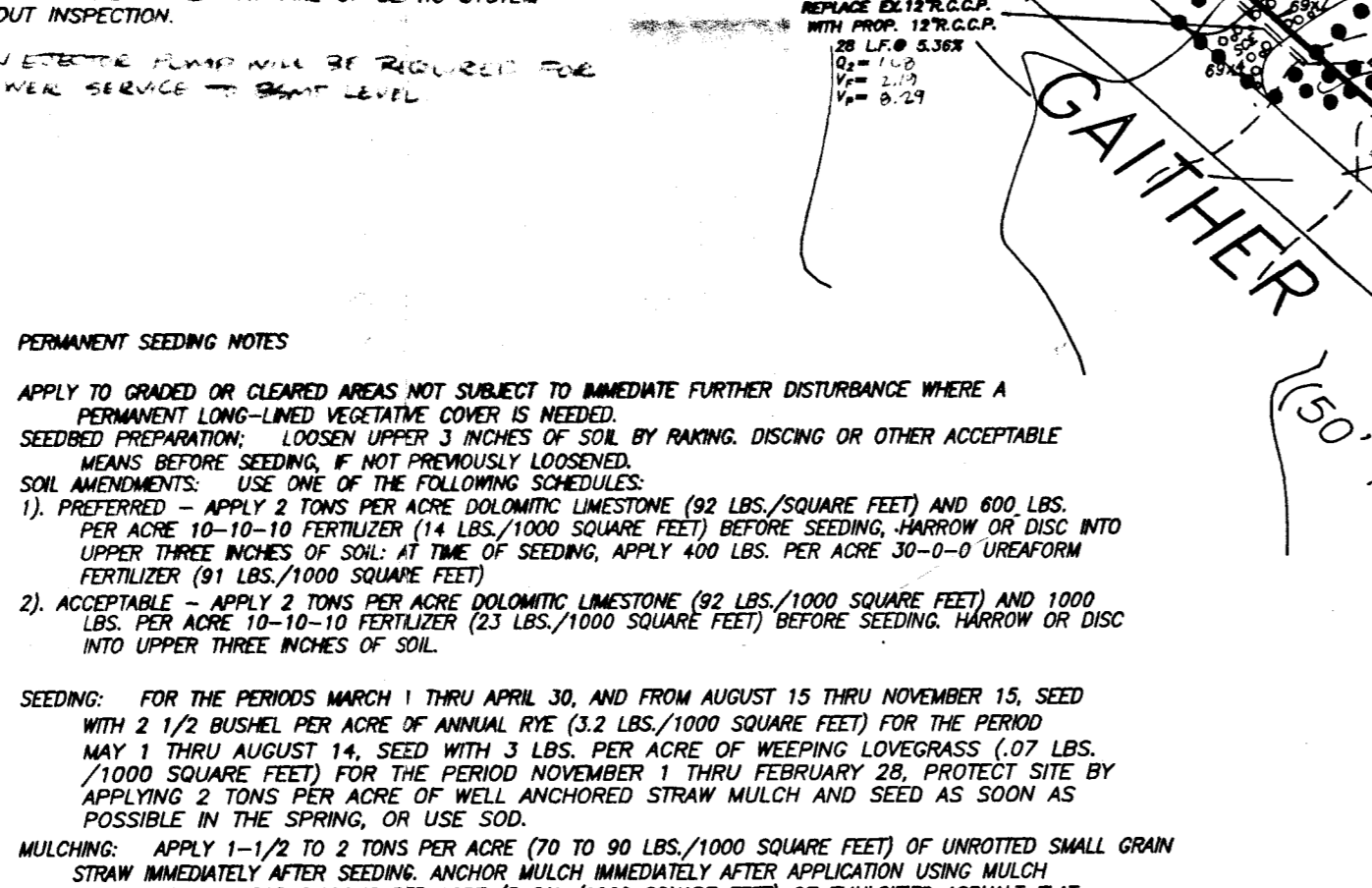
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DESIGNED	BY	NO.	REVISION	DATE
GSS	RF	1	REVISED HOUSE LOCATION DEL. SOUTH DR. ENTRANCE	4/15/03
RF	RF	2	REV. SEPTIC AREA	5/5/03
DRAWN				
RF				
CHECKED				
GSS				
DATE				
4/15/03				

**TEMPORARY SEEDING NOTES**

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  - B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

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**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REESTABLISHED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS./ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQUARE FEET).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./1,000 SQUARE FEET) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WHEATING LOVEGRASS (.07 LBS./1,000 SQUARE FEET) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQUARE FEET) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL 218 GALLONS PER ACRE (5 GAL./1,000 SQUARE FEET) OF EMULSIFIED ASPHALT OR FLAT AREAS ON SLOPES 4 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1,000 SQUARE FEET) FOR ANCHORING.

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LEAVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

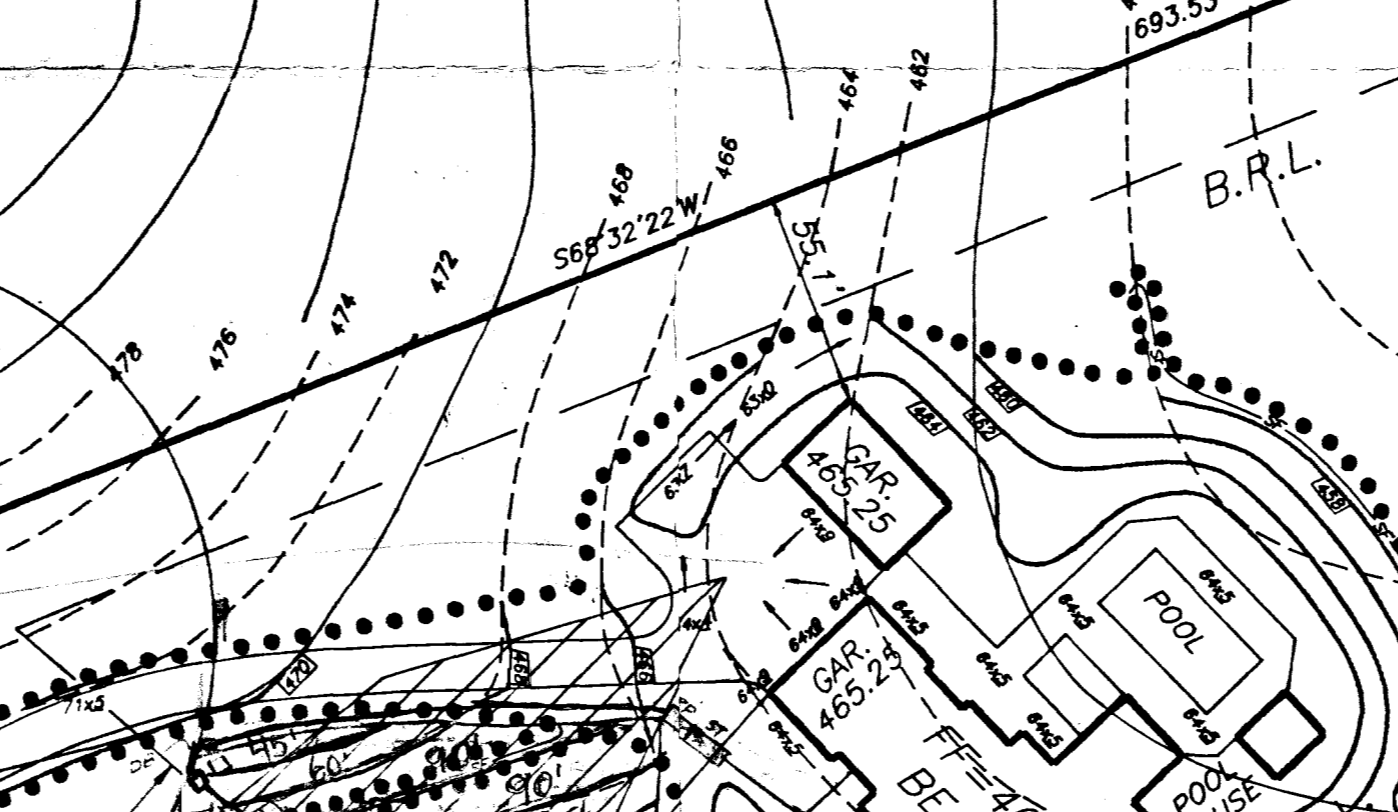
SOIL AMENDMENTS: USE ONE OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS PER ACRE DELOMITIC LIMESTONE (92 LBS./1,000 SQUARE FEET) AND 800 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (91 LBS./1,000 SQUARE FEET)
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DELOMITIC LIMESTONE (92 LBS./1,000 SQUARE FEET) AND 1,000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./1,000 SQUARE FEET) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WHEATING LOVEGRASS (.07 LBS./1,000 SQUARE FEET) FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQUARE FEET) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL 218 GALLONS PER ACRE (5 GAL./1,000 SQUARE FEET) OF EMULSIFIED ASPHALT OR FLAT AREAS ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS DISCING OR OTHER RESEEDINGS.



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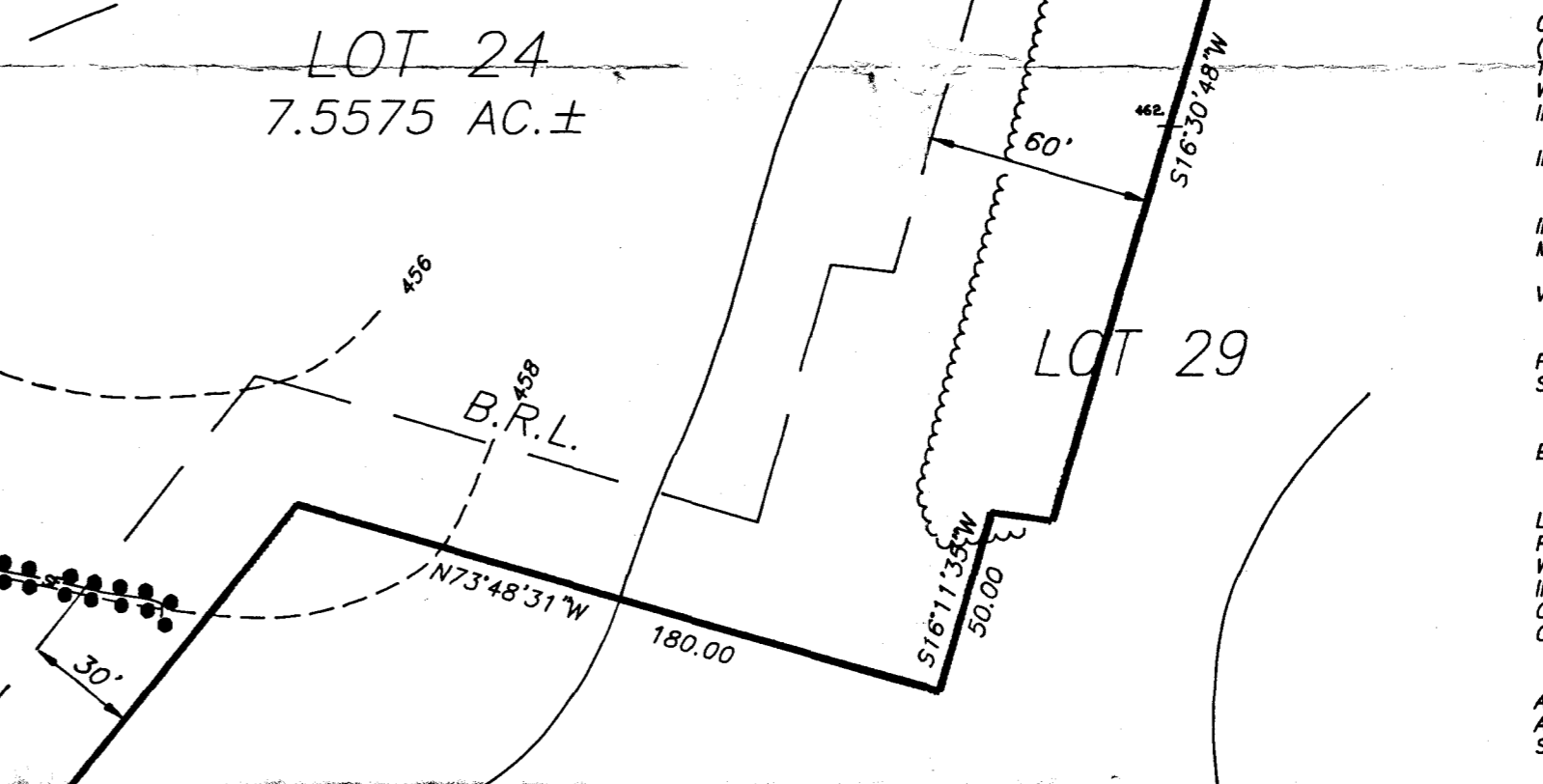
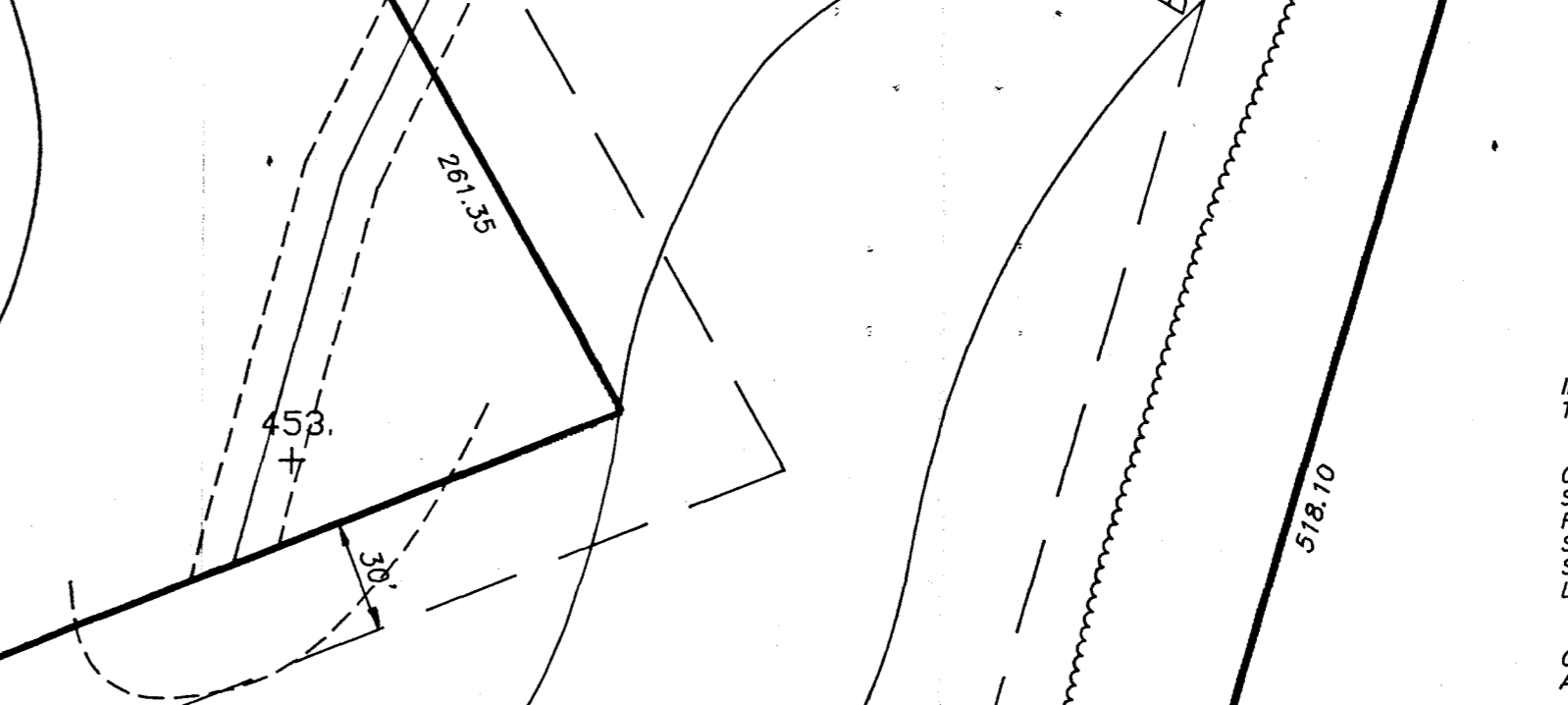
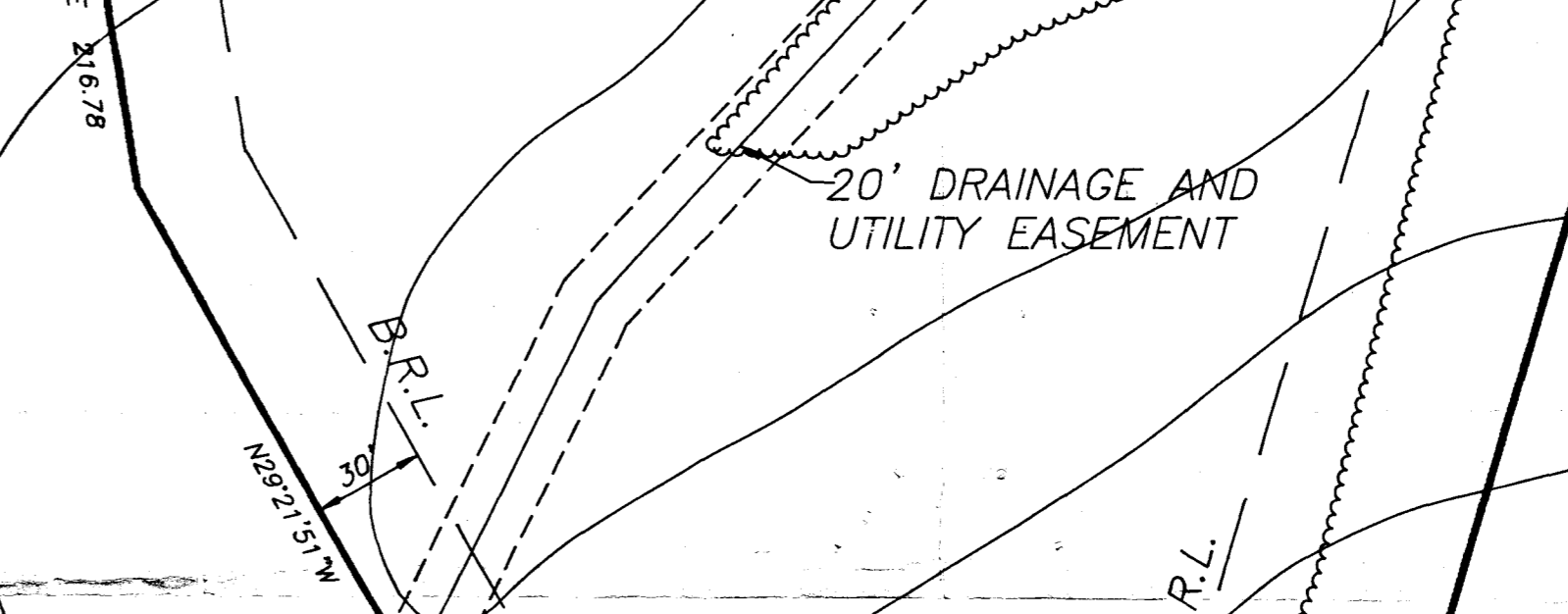
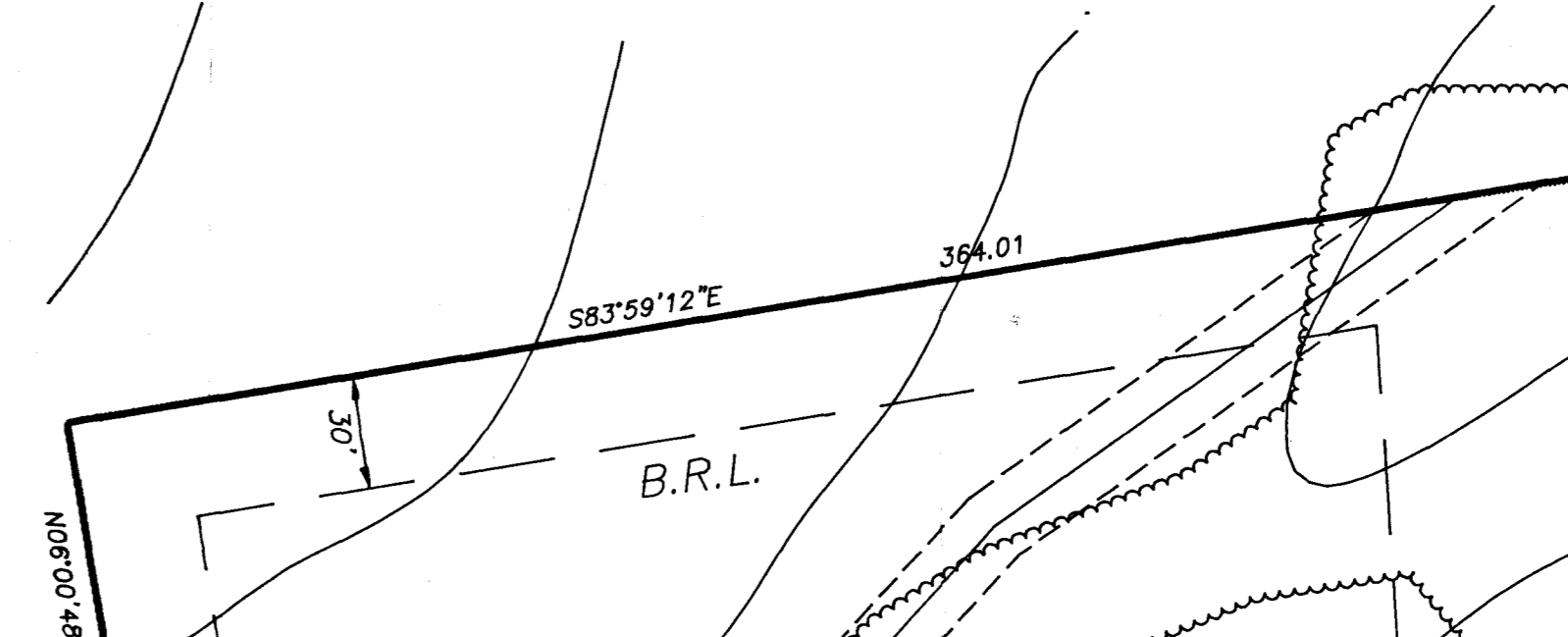
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MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS DISCING OR OTHER RESEEDINGS.

DESIGNED	BY	NO.	REVISION	DATE
GSS	RF	1	REVISED HOUSE LOCATION DEL. SOUTH DR. ENTRANCE	4/15/03
RF	RF	2	REV. SEPTIC AREA	5/5/03
DRAWN				
RF				
CHECKED				
GSS				
DATE				
4/15/03				



**LEGEND:**

- DESIGNATES APPROVED PERC TEST
- DESIGNATES 10,000 SEPTIC EASEMENT
- B.R.L. DESIGNATES BUILDING RESTRICTION LINE
- DESIGNATES SPOT ELEVATION
- - - DESIGNATES SILT FENCE

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF GROUND STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 AND 1/2" IN DIAMETER.
- II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- IV. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
  - I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
  - V. TOPSOIL APPLICATION
    - I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DINES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
    - II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE PREVIOUSLY BEEN ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-8" HIGHER IN ELEVATION.
    - III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
    - IV. TOPSOIL SHALL NOT BE PLACED WHEN THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE
3. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE.
4. EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND TEMPORARILY STABILIZE.
5. CONSTRUCT HOUSE, SIDEWALKS AND DRIVEWAYS.
6. FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STDS. & SPECS.
7. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE.

OWNERS: DAVID & ELIZABETH WILLIAMS  
6401 AUTUMN SKY WAY  
COLUMBIA, MD. 21044

DEVELOPER: GYC GROUP LTD.  
150 E. MAIN STREET  
P.O. BOX 1765  
WESTMINSTER, MD. 21158-8765

DESIGNED: GSS

DRAWN: RF

CHECKED: GSS

DATE: 4/15/03

GRADING, SEDIMENT & EROSION CONTROL PLAN

LOT 24

GAITHER FARM

LOTS 1 TO 25

PLAT #6609

THIRD ELECTION DISTRICT, HOWARD COUNTY, MD

SCALE: 1"=50'

FEBRUARY 26, 2003

ZONED: RC-DEO

SCALE: 1"=50'

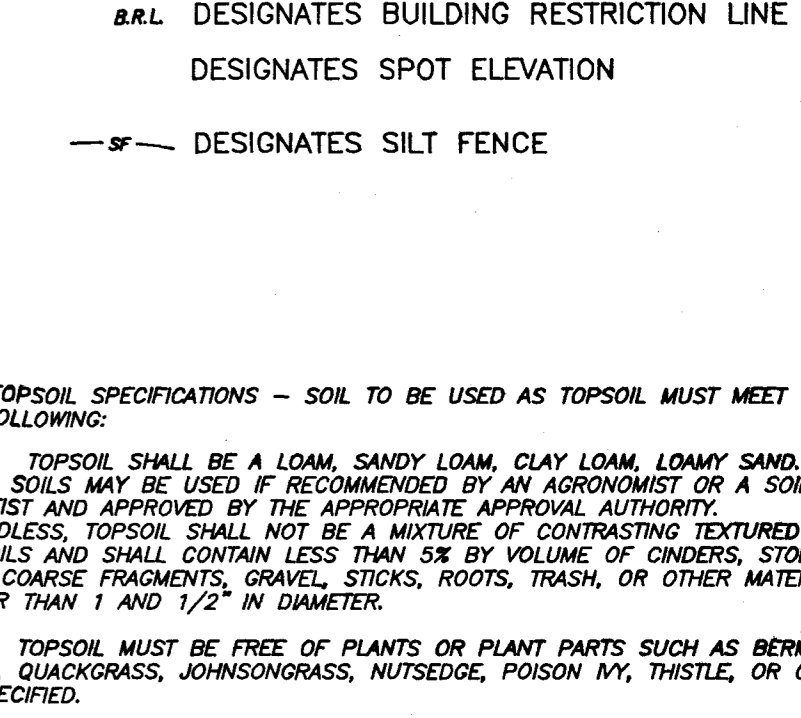
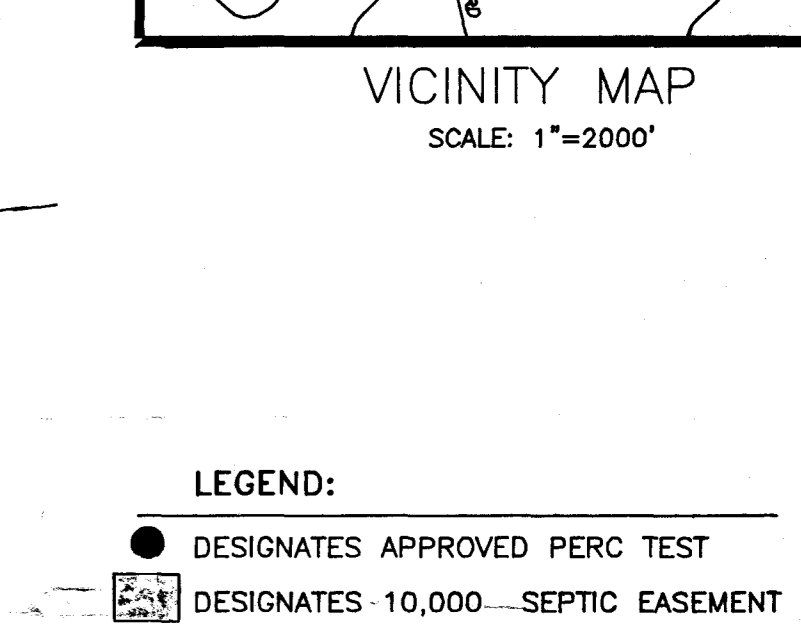
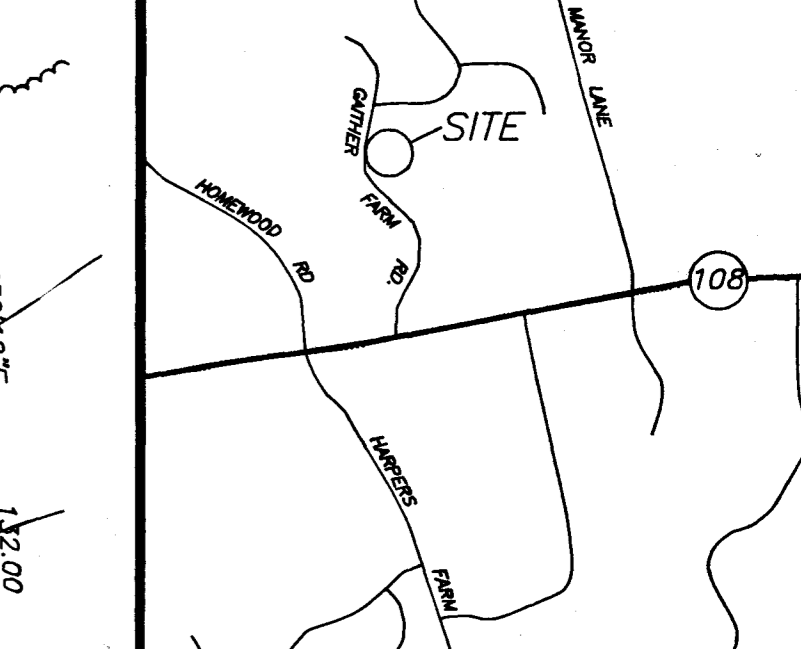
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JOB NO.:

90-85

FILE NO.:

1 OF 1



"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

G. SCOTT SHANABERGER  
PROFESSIONAL L.S. #10849

DATE: 4/17/03

DEVELOPERS CERTIFICATE:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DATE: 4/17/03

REVIEWED FOR HOWARD SOIL AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

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

Jim Meyer / G 4/17/03

Robertson / G 4/17/03

USDA / NATURAL RESOURCES CONSERVATION SERVICES DATE

HOWARD SCD DATE

DESIGNED	BY	NO.	REVISION	DATE
GSS	RF	1	REVISED HOUSE	

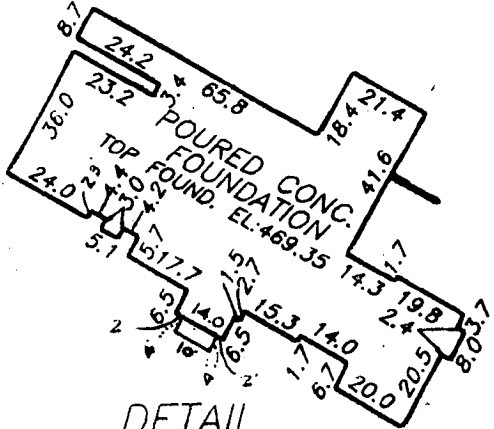
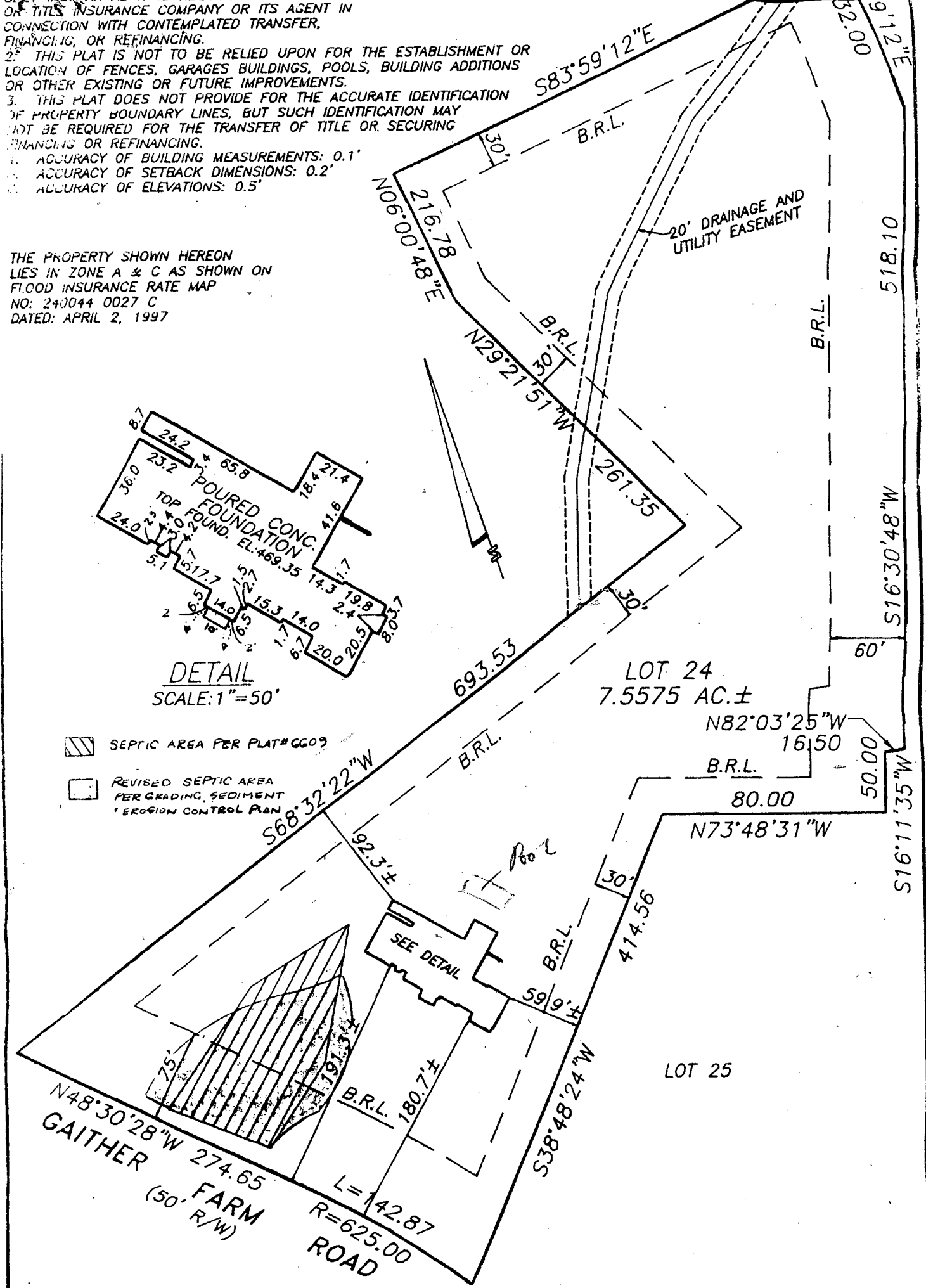
OR TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING, OR REFINANCING.

2. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES BUILDINGS, POOLS, BUILDING ADDITIONS OR OTHER EXISTING OR FUTURE IMPROVEMENTS.

3. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.

- 1. ACCURACY OF BUILDING MEASUREMENTS: 0.1'
- 2. ACCURACY OF SETBACK DIMENSIONS: 0.2'
- 3. ACCURACY OF ELEVATIONS: 0.5'

THE PROPERTY SHOWN HEREON LIES IN ZONE A & C AS SHOWN ON FLOOD INSURANCE RATE MAP NO: 240044 0027 C DATED: APRIL 2, 1997



DETAIL  
SCALE: 1"=50'

- SEPTIC AREA PER PLAT # 6609
- REVISED SEPTIC AREA PER GRADING, SEDIMENT EROSION CONTROL PLAN