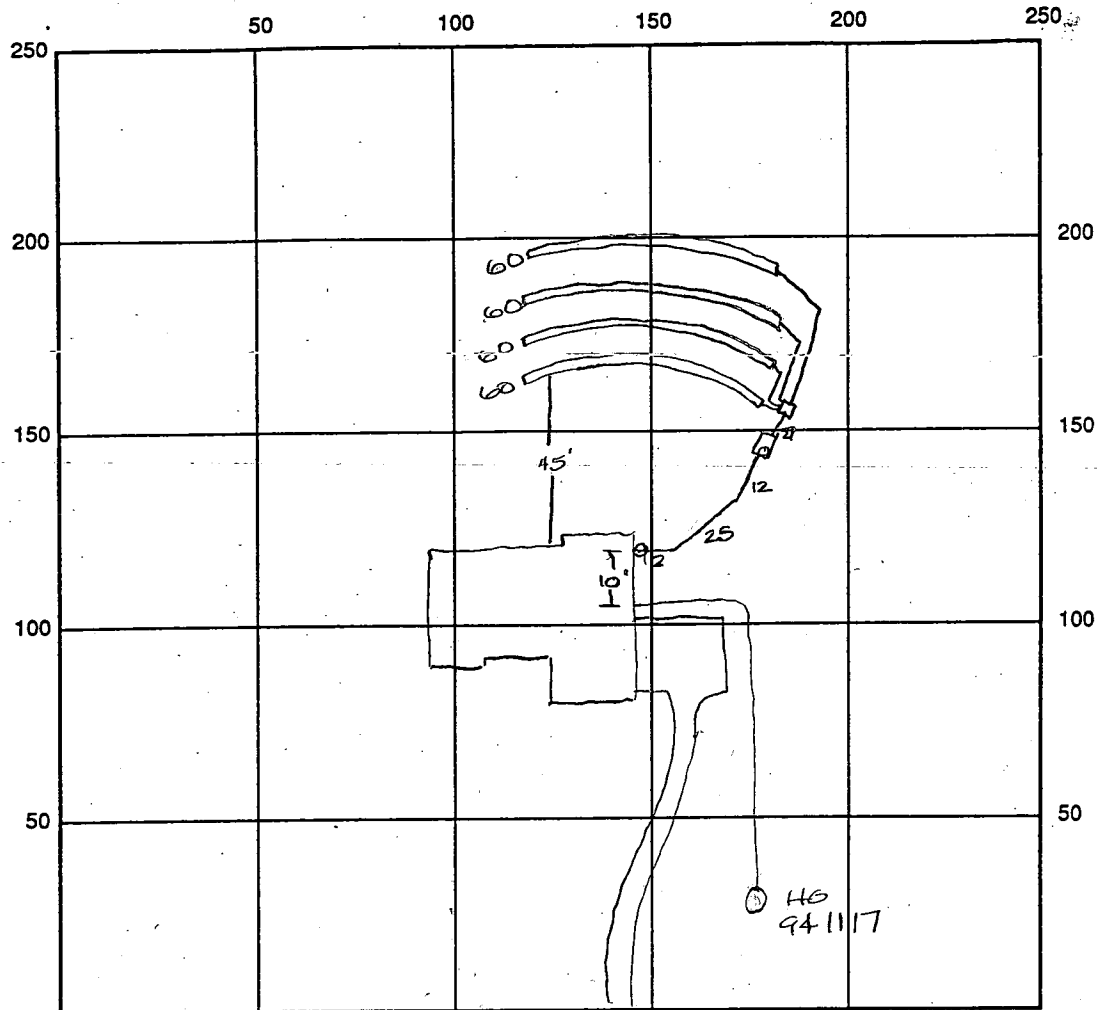


A 50368 m



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK 1250ga CLEANOUTS @ tank & @ house connection

DISTRIBUTION BOX LEVEL OK baffle is in

DRAIN FIELD/TITLE DEPTH 5.0 FT. TRENCH WIDTH 3.0 FT. INLET DEPTH 3.5 FT.

EFFECTIVE GRAVEL DEPTH 1.5 FT. TOTAL LENGTH 240 FT.

NUMBER OF TRENCHES 4 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.

$$\frac{240}{3} = 720$$

DRYWALL INSIDE DIAMETER 0 FT. EFFECTIVE DEPTH BELOW INLET 0 FT.

ABSORBENT AREA 0 SQ. FT.

REMARKS: 4/16/98 OK to cover all work final

WPI OK to cover ALM

DATE SYSTEM APPROVED 4/16/98 INSPECTOR A Mcmelle

APPLICATION

PERCOLATION TESTING

A 50368

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
PO BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 461-9933

DISTRICT

4th

DATE

9/30/94

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

PROPERTY OWNER

Amalia Riggs, c/o SDC Group, Inc. RYAN HOMES
8480 Baltimore - National Pk

ADDRESS

PO BOX 417, ELLICOTT CITY, MD 21041 PHONE (410) 465-6105

PROSPECTIVE BUYER

ADDRESS

PHONE

PROPERTY LOCATION:

SUBDIVISION

Riggs Property

LOT NO.

Grd. 1

ROAD AND DESCRIPTION

Located @ SW Corner of the intersection of
Roxbury Mill (Rte. 97) & Frederick Rd (Rte. 144)

TAX MAP

8814

PARCEL #

96

SIZE OF LOT

55000 ± S.F.

TYPE BLDG

OLD PERMIT NO.

AND RETURNED

2-23-98

Amalia Riggs 814 109923 - 4 Ben.

Single Family Dwelling
(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.

James B. Morley III

V. Pres

(SIGNATURE OF APPLICANT)

APPROVED BY

FOR

DATE

REJECTED BY

FOR

DATE

HOLD PENDING FURTHER TESTS

DATE

REASONS FOR REJECTION OR HOLDING

THIS IS NOT A PERMIT

Lot 7

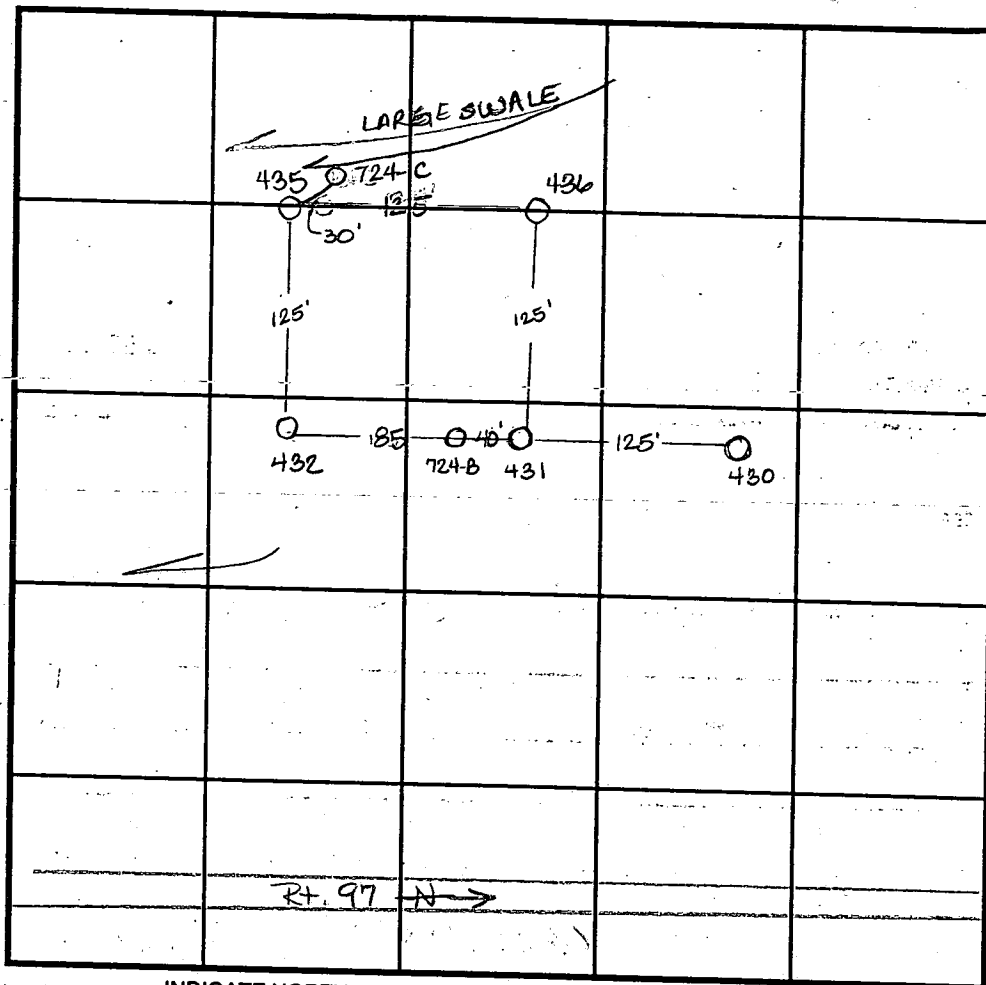
COUNTY #

SOIL PROFILE

0' 432
bright
red
clm
3.5' red
silu
4.5' reddish
orange
salm
pockets
of gray
sand
very
friable
12'

435
red c
w/
large
rock
frags
4.0' lgt brn
tan
salm
approaching
50%
rock
hard
bottom
10.5'

736
lgt
orange
yellow
clm
5' bright
red
salm
w/
some
clay
11'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' 724-B-A
dark
red
silu
4' pink
matrix
color
mottled
w/
yellow
from
parent
rock
12' 431-R
dark red
silu
3.0' dark red
to orange
salm
15% rock
9.0' rock approaching
50%
11.5'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-2-94	430	>50%	rock	refusa	at 8	—	F
	431	>50%	rock	refusa	at 85	—	F
	432	5' V12.5	7:08 ³⁰	7:09	7:09	7:10	1min
	435	4' V10	7:01	7:02 ²⁰	7:02 ²⁰	7:03 ³⁰	1min F
	436	5' V12	8:39 ³⁰	8:40 ²⁰	8:40 ²⁰	8:45 ⁴⁵	5 3/4 min
11-29-95	724-B	Visual to 12.5	- sec	profile	—	—	OK
	724-C	Not dig - located in swale	—	—	—	—	—
2-6-96	431-R	Visual to 11.5	- sec	profile	—	—	OK

REMARKS Shallow only

TYPE OF SOIL

TESTED BY Amy McMillen

ALSO PRESENT Clark Sperry

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH 3.0

MAXIMUM BOTTOM DEPTH 5.0

SQ. FT/BEDROOM

[illegible][illegible][illegible][illegible]

18" RCP

1-6

PC = 1+00.00

PT = 1+00.00

VARIED

LOT 5
60,000 SQ. FT.
1.38 Acres

LOT 6
68,379 SQ. FT.
1.57 Acres

LOT 7
44,306 SQ. FT.
1.02 Acres

VEHICULAR ACCESS ALONG ROXBURY STREET

APPROX. LOCATION OF EX. WELL

SILT FENCE

ACCELERATION LANE 12' WIDE

150' TAPER

LIMIT OF DISTURBANCE

Approved P. 96-20

SWMF #2 (P)

WATER QUALITY BY INFILTRATION

WATER QUANTITY BY DETENTION

HAZARD CLASS 'A'

LIMIT OF DISTURBANCE

SWMF ACCESS, DRAINAGE

NON-BUILDING

920 (FOR T)

44.1

RAP OUTFALL

WEIR WALL

PASS 100

EARTH DIKE

MEADOW COUNTER

CLEAN WATER DIVERSION DIKE

LIMIT OF DISTURBANCE

461

462

463

464

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838

839

18" RCP

1-6

PC = 1+02.41

PT = 2+17.81

VARIED

LOT 5
60,000 SQ. FT.
1.38 Acres

LOT 6
68,379 SQ. FT.
1.57 Acres

LOT 7
44,306 SQ. FT.
1.02 Acres

LIMIT OF DISTURBANCE

CLEAN WATER DIVERSION DIKE

EARTH DIKE

MEADOW COUNTERP

SILT FENCE

APPROX. LOCATION OF EX. WELL

VEHICULAR ACCESS ALONG ROXBURY

Approved P. 96-20

(SEDIMENT TRAP)
SWMF #2 (P)
WATER QUALITY BY INFILTRATION
WATER QUANTITY BY DETENTION
HAZARD CLASS 'A'

LIMIT OF DISTURBANCE

SWMF ACCESS, DRAINAGE
NON-BUILDING
920 (FOR T)
44.1

SEDIMENT TRAP OUTFALL

WEIR WALL

18" RCP

(6)

PC = 1+60

R/W

PT = 2+78

VARIABLE

LOT 5
60,000 SQ.FT.
1.38 Acres

LOT 6
68,379 SQ.FT.
1.57 Acres

LOT 7
44,306 SQ.FT.
1.02 Acres

LOT 8
44,306 SQ.FT.
1.02 Acres

SILT FENCE

LIMIT OF DISTURBANCE

VEHICULAR ALONG ROXBURY

CLEAN WATER DIVERSION DIKE

EARTHDIKE

MEADOW COUNTRY

APPROVED P. 96-20

APPROX. LOCATION OF EX. WELL

LIMIT OF DISTURBANCE

SWM ACCESS, NON-BUILDING (FOR T. 44.1)

RAP OUTFALL

WEIR WALL

PASS 100

[illegible][illegible][illegible]

18" RCP

1-6

PC = 1624

PT = 1624

VARIED

LOT 5
60,000 SQ. FT.
1.38 Acres

LOT 6
68,379 SQ. FT.
1.57 Acres

LOT 7
44,306 SQ. FT.
1.02 Acres

VEHICULAR ACCESS ALONG ROXBURY

APPROX. LOCATION OF EX. WELL

Approved P. 96-20

SWMF #2 (P. 96-20)

WATER QUALITY BY INFILTRATION
WATER QUANTITY BY DETENTION
HAZARD CLASS 'A'

LIMIT OF DISTURBANCE

SWMF ACCESS, DRAINAGE
NON-BUILDING
920 (FOR T. 44.1)

RAP OUTFALL

WEIR WALL

MEADOW COUNTER

EARTH DIKE

CLEAN WATER DIVERSION DIKE

LIMIT OF DISTURBANCE

VEHICULAR ACCESS ALONG ROXBURY

APPROX. LOCATION OF EX. WELL

Approved P. 96-20

SWMF #2 (P. 96-20)

WATER QUALITY BY INFILTRATION
WATER QUANTITY BY DETENTION
HAZARD CLASS 'A'

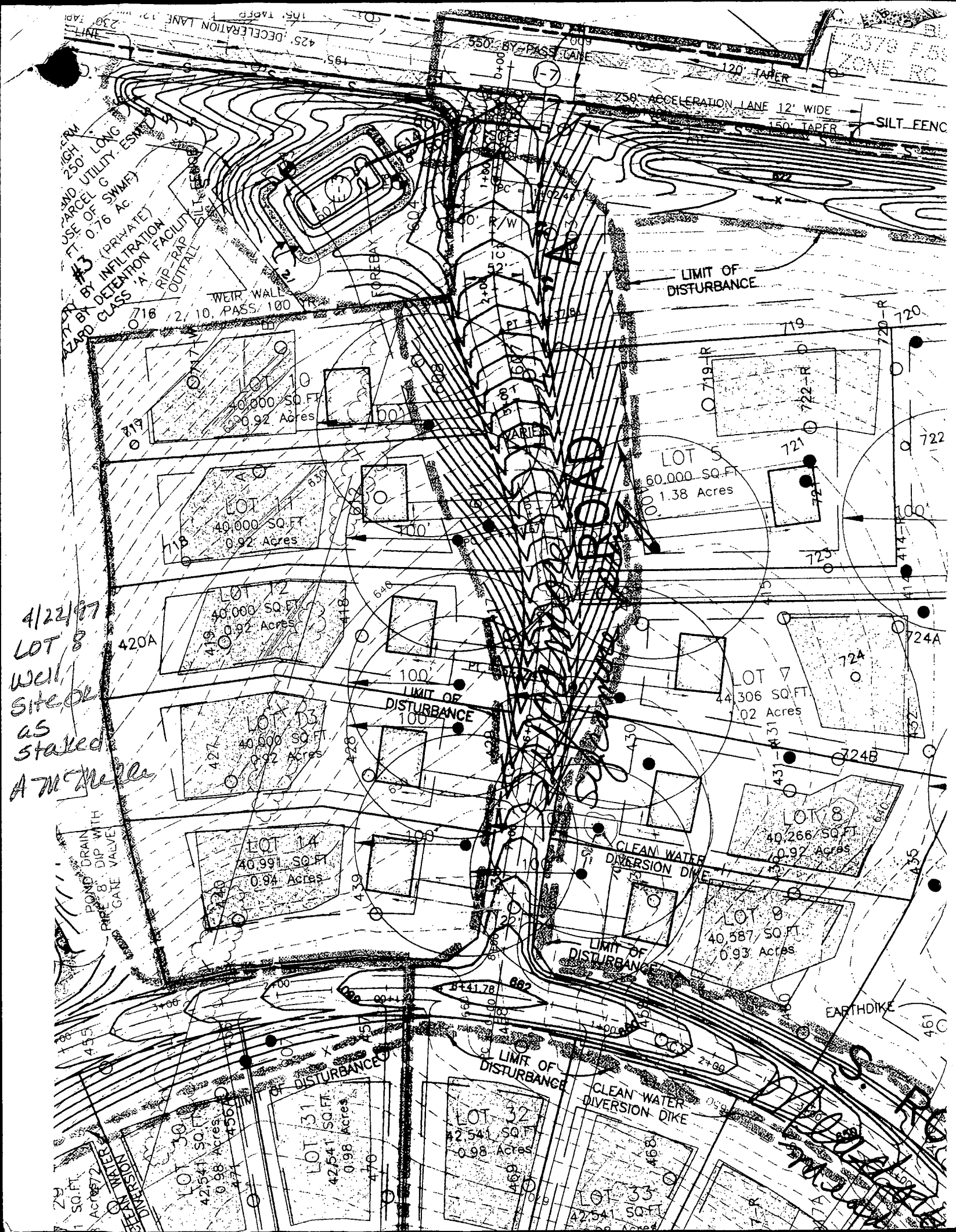
LIMIT OF DISTURBANCE

SWMF ACCESS, DRAINAGE
NON-BUILDING
920 (FOR T. 44.1)

RAP OUTFALL

WEIR WALL

[illegible][illegible]



TEMPORARY SEEDBED PREPARATION

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

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

SOIL AMENDMENTS: APPLY 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT)

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (32 LBS/1000 SQ FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (07 LBS/1000 SQ FT) FOR THE PERIOD NOVEMBER 15 THROUGH FEBRUARY 28. PROTECT THIS 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 80 LBS/1000 SQ FT) OF UNPOTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDBED PREPARATION

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 10-0-0-0 UREAFORM FERTILIZER (19 LBS/1000 SQ FT)

2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS PER ACRE (14 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF WEEPING LOVEGRASS DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28. PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR OPTION (2) SEED WITH 80 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL-ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 80 LBS/1000 SQ FT) OF UNPOTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 1 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, Dikes, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOO (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

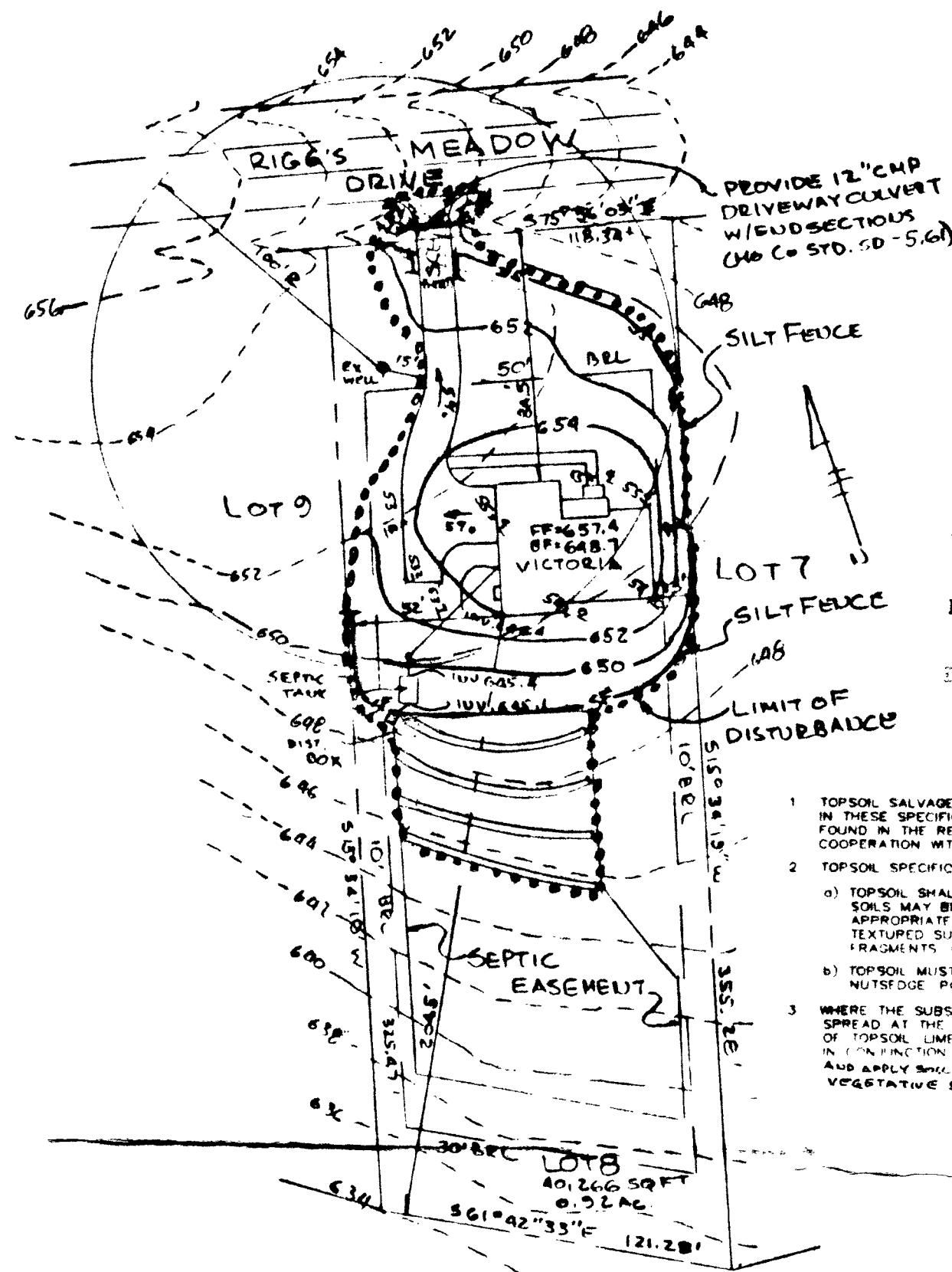
7. SITE ANALYSIS	
TOTAL AREA OF SITE	0.92 ACRES
AREA DISTURBED	0.45 ACRES
AREA TO BE ROOFED OR PAVED	0.09 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.36 ACRES
TOTAL CUT	530 CU YDS
TOTAL FILL	630 CU YDS
OFFSITE WASTE/WORROW AREA LOCATION	SITE WITH AN APPROVED SEDIMENT CONTROL PLAN

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

NOTE: ALL SEDIMENT CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS SHOWN IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

SEQUENCE OF CONSTRUCTION

DAY 1	OBTAIN A GRADING PERMIT
DAY 2-2	INSTALL SILT FENCE AND STABILIZE CONSTRUCTION ENTRANCE
DAY 5-10	GRADE SITE AND STABILIZE IN ACCORDANCE WITH PERMANENT SETTLED NOTES
DAY 11-31	CONSTRUCT HOUSE, INSTALL DRIVEWAY AND UTILITIES
DAY 32	STABILIZE ANY REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES
DAY 33-38	UPON APPROVAL OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES

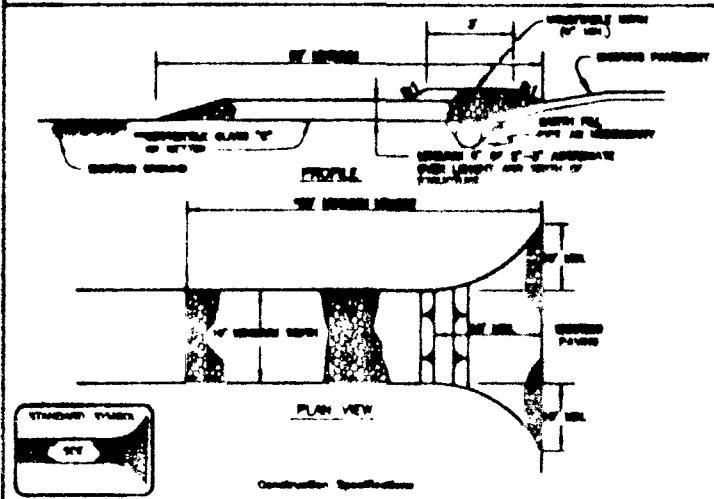


PLAN
SCALE: 1" = 50'

NOTES

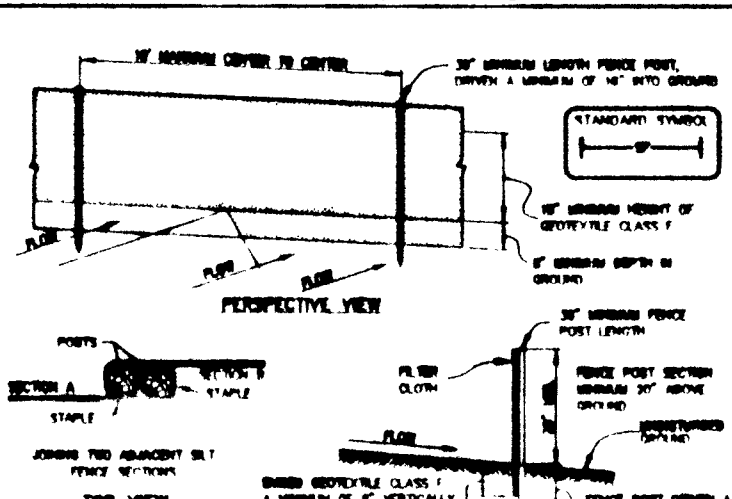
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
- UNLESS OTHERWISE SHOWN, NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
- TOPOGRAPHY SHOWN HEREON IS TAKEN FROM F-87-41 WHICH WAS PREPARED BY TSA GROUP, INC.
- EXACT LENGTH OF SEPTIC TRENCHES TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PERMIT ISSUANCE.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Length - minimum of 10' (10' for slope stability)
- Width - 10' minimum, should be placed on the existing road to provide a landing
- Materials - 1/2" crushed stone or 1/2" crushed stone with 1/4" sand
- Construction - 1/2" crushed stone or 1/2" crushed stone with 1/4" sand
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. The entrance shall be located on the existing road to provide a landing

DETAIL 22 - SILT FENCE



- Force posts shall be a minimum of 1/2" x 1/2" x 1/2" (minimum) and 1/2" x 1/2" x 1/2" (maximum) round and short be of round quality hardwood. Steel posts will be standard 1" x 1/2" x 1/2" (minimum) round and short be of round quality hardwood. Steel posts will be standard 1" x 1/2" x 1/2" (minimum) round and short be of round quality hardwood.
- Barbed wire shall be fastened securely to each force post with wire ties or staples of 1/2" and 1/2" and shall meet the following requirements for Silt Fence Class F:
- Where there are gaps in the silt fence, they shall be overlapped, folded and stapled to prevent sediment bypass.
- 20' Force posts shall be supported after each right-of-way and stabilized when bridge, culvert or other sediment accumulation reaches 1/2" of the fabric height.

SILT FENCE

Silt Fence Design Criteria	Standard	Standard
Shade Slopes	Standard	Standard
Flatter than 50:1	unclassified	unclassified
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	50 feet	500 feet
3:1 to 2:1	40 feet	300 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 20' slopes and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited in these areas a silt fence may be the only perimeter control required.

Approved Septic System Plan
Howard County Health Department

Donna K. See 2/28/98
Date

Total linear feet of trench required 240 feet
Width of trench(es) 3 feet
Depth of trench(es) 5 feet
Depth of stone required below reduction pipe 1.5 feet

TOPSOIL STANDARDS AND SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS 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.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR 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 CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- 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 AG OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES: PLACE TOPSOIL AND APPLY SOIL AMENDMENTS AS SPECIFIED IN SOO. VEGETATIVE STABILIZATION - SEEDING - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT 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.
Peter D. Dwyer 2/2/98
DATE

BY THE ENGINEER:
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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Henry W. Fidler 2/2/98
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Cheryl Simmons 2/5/98
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
John R. Bohn 2/5/98
DATE

TSA GROUP, INC.
planning • architecture • engineering • surveying
8400 Baltimore National Pike • Ellicott City, Maryland 21048 • 410-406-9106

PROJECT:	RIGGS MEADOW LOT 8		
LOCATION:	TAX MAPS 8 & 14 - PARCEL 98 4th ELECTION DISTRICT PLAT: 12961 HOWARD COUNTY, MARYLAND		
TITLE:	PLOT/GRADING PLAN		
DATE:	JANUARY, 1998	PROJECT NO.	1055
SCALE:	AS SHOWN	DRAWING	1 OF 1

B 1	7449	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER <div style="border: 1px solid black; padding: 2px; display: inline-block;"> HC-94-11111 </div> <small>70 fill in this form completely 79</small>
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)				
OWNER INFORMATION Date Received (APA) <div style="border: 1px solid black; padding: 2px; display: inline-block;">033197</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 8 13 <div style="border: 1px solid black; padding: 2px; display: inline-block;">SDC</div> 15 Last Name Owner First Name 34 <div style="border: 1px solid black; padding: 2px; display: inline-block;">PO BOX 417</div> 36 Street or RFD 55 <div style="border: 1px solid black; padding: 2px; display: inline-block;">ELKICOFF CITY MD 21041</div> 57 Town 70 State 72 Zip 76 </div> </div>		LOCATION OF WELL 1 2 <div style="border: 1px solid black; padding: 2px; display: inline-block;">HOWARD</div> 8 COUNTY 21 <div style="border: 1px solid black; padding: 2px; display: inline-block;">RIGGS PROPERTY</div> 23 SUBDIVISION 42 SECTION LOT 8 <div style="border: 1px solid black; padding: 2px; display: inline-block;">COOKSVILLE</div> 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 1 MI <div style="display: flex; justify-content: space-around; width: 100%;"> 73767778 </div>		
DRILLER INFORMATION Driller's Name CIRCLE: MSD/MGD/MWD <div style="border: 1px solid black; padding: 2px; display: inline-block;">Joseph P. Mayne</div> 024 Firm Name 77 License No. 80 <div style="border: 1px solid black; padding: 2px; display: inline-block;">Joseph P. Mayne Well Drilling</div> Address 5512 Ridge Rd. Mt. Airy Md. 21771 Signature Joseph P. Mayne Date 3/31/97		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) NEAR WHAT ROAD 30 <div style="border: 1px solid black; padding: 2px; display: inline-block;">SYCAMORE SPRING RD.</div> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> NORTH N WEST W SOUTH S EAST E </div> <div style="text-align: center;"> 34 40 37 DISTANCE FROM ROAD ENTER FT OR MI FT <div style="display: flex; justify-content: space-around; width: 100%;"> 3839 </div> </div> </div> TAX MAP: BLK: PARCEL:		
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="display: flex; justify-content: space-between;"> <div> COUNTY NAME Howard STATE A SIGNATURE Amy M. Miller DATE ISSUED 4/21/98 NORTH GRID 540000 EAST GRID 0792000 </div> <div> COUNTY NO. A50368 INSERT S <input type="checkbox"/> </div> </div>		
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) <input type="checkbox"/> PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) <input type="checkbox"/> TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Well 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"> E 790 N 530 </div> <div>000 000</div> </div>		
APPROXIMATE DEPTH OF WELL 260 FEET APPROXIMATE DIAMETER OF WELL 6 INCH		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION <div style="text-align: right;">Cooksville</div>		
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTARY Drive-POINT other		REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input checked="" type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41		
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER GAP		FORCE AM WRITE INITIALS IN BOX PERMIT No. HC-94-11111		
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED				

C1	6025	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLUMNS 3-6 ON ALL CARDS)				COUNTY NUMBER		
ST/CO USE ONLY DATE RECEIVED MM DD YY 8- 13		DATE WELL COMPLETED MM DD YY 4 24 97		Depth of Well 22 320 26 (TO NEAREST FOOT)		
				PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1111		

OWNER	last name <u>SDC</u> first name		TOWN	<u>Coolsville</u>	
STREET OR RFD	<u>Sycamore Spring Rd</u>		SECTION	<u>8</u>	
SUBDIVISION	<u>Riggs Prop</u>		LOT	<u>8</u>	

WELL LOG Not required for driven wells		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		
DESCRIPTION (Use additional sheets if needed)	FEET FROM TO	check if water bearing
Brown Shale	0 88	
Gray Mica Rock	88 320	✓

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box)	
TYPE OF GROUTING MATERIAL (Circle one)	
CEMENT <u>CM</u>	BENTONITE CLAY <u>BC</u>
NO. OF BAGS <u>27</u>	NO. OF POUNDS <u>2538</u>
GALLONS OF WATER <u>162</u>	
DEPTH OF GROUT SEAL (to nearest foot)	
from <u>0</u>	ft. to <u>86</u> ft.
(enter 0 if from surface)	

CASING RECORD	
casing types insert appropriate code below	<u>ST</u> STEEL <u>CO</u> CONCRETE <u>PL</u> PLASTIC <u>OT</u> OTHER
MAIN CASING TYPE <u>ST</u>	Nominal diameter top (main) casing (nearest inch) <u>6</u>
	Total depth of main casing (nearest foot) <u>91</u>
60 61	63 64 66 70

OTHER CASING (if used)	
diameter inch	depth (feet) from to

SCREEN RECORD	
screen type or open hole (insert appropriate code below)	<u>ST</u> STEEL <u>BR</u> BRASS <u>HO</u> OPEN HOLE <u>PL</u> PLASTIC <u>OT</u> OTHER

DEPTH (nearest ft.)	
1 2	<u>HO</u> <u>90</u> <u>320</u>
3 4 5 6 7 8 9 10 11 12	
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	
SLOT SIZE 1 _____ 2 _____ 3 _____	
DIAMETER OF SCREEN (NEAREST INCH) 56 60 from to	

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68	68
--	----

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
T	(E.R.O.S.) W Q
70	72
TELESCOPE CASING	LOG INDICATOR
	OTHER DATA

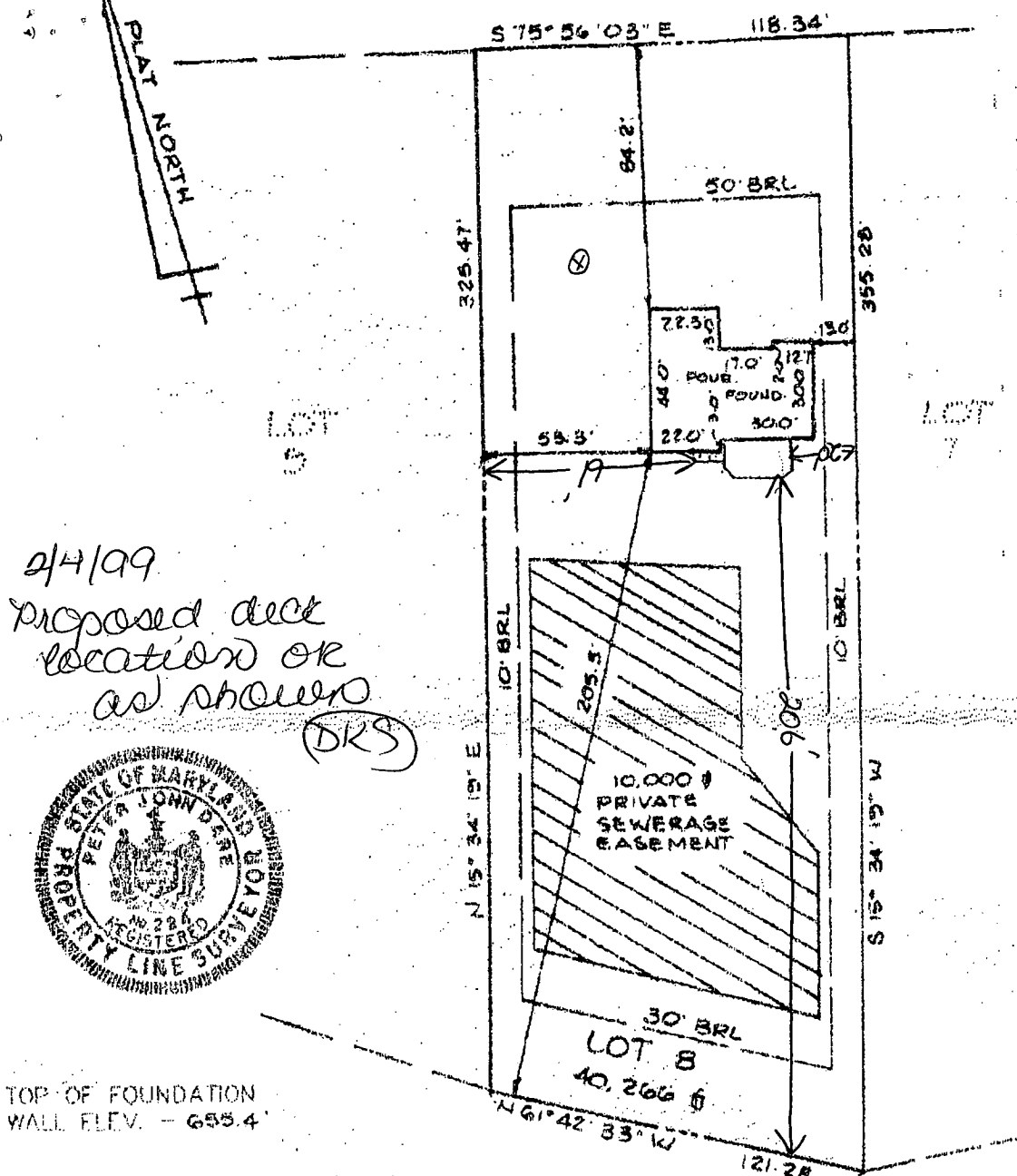
C 3	
PUMPING TEST	
HOURS PUMPED (nearest hour)	<u>3</u>
PUMPING RATE (gal. per min.)	<u>6</u>
METHOD USED TO MEASURE PUMPING RATE	<u>Bucket</u>
WATER LEVEL (distance from land surface)	
BEFORE PUMPING	<u>66</u> ft.
WHEN PUMPING	<u>236</u> ft.
TYPE OF PUMP USED (for test)	
<u>A</u> air	<u>P</u> piston <u>T</u> turbine
<u>C</u> centrifugal	<u>R</u> rotary <u>O</u> other (describe below)
<u>J</u> jet	<u>S</u> submersible

PUMP INSTALLED	
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO)	YES <u>NO</u>
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.	
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29	
CAPACITY: GALLONS PER MINUTE (to nearest gallon)	31 35
PUMP HORSE POWER	37 41
PUMP COLUMN LENGTH (nearest ft.)	43 47
CASING HEIGHT (circle appropriate box and enter casing height)	
<u>+</u> above	LAND SURFACE
<u>-</u> below	(nearest foot)

LOCATION OF WELL ON LOT	
SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)	
<u>Sycamore Spring Rd.</u>	
<u>40'</u> <u>20'</u>	

NUMBER OF UNSUCCESSFUL WELLS: <u>0</u>	
WELL HYDROFRACTURED <u>Y</u> <u>N</u>	
CIRCLE APPROPRIATE LETTER	
<u>A</u> A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	
<u>E</u> ELECTRIC LOG OBTAINED	
<u>P</u> TEST WELL CONVERTED TO PRODUCTION WELL	
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	
DRILLERS LIC. NO. <u>MSD024</u>	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	
LIC. NO. <u>M D</u>	
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	

RIGGS MEADOW DRIVE



2/4/99
 Proposed deck
 location or
 as shown
 (DKS)



TOP OF FOUNDATION
 WALL ELEV. - 655.4'

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE LOCATION DRAWING SHOWN HEREON IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE IMPROVEMENTS HAVE BEEN LOCATED AS THE RESULT OF A FIELD SURVEY, AND THAT THERE ARE NO VISIBLE ENCROACHMENTS UNLESS SHOWN. THE PROPERTY DOES NOT LIE WITHIN A FLOOD HAZARD AREA ON THE FEMA FIRM IDENTIFIED BELOW. AT THE WRITTEN REQUEST OF THE PURCHASER, NO PROPERTY CORNER MARKERS HAVE BEEN SET.

Peter J. Darc
 PETER J. DARC
 MD. PROPERTY LINE SURVEYOR #224

RECORD PLAT No. 12961
 FEMA FIRM No. 240044 0008 B
 DATED DECEMBER 4, 1986

TSA GROUP, INC.
 planning • architecture • engineering • surveying
 8480 BALDWIN NATIONAL PIKE, SUITE 418

PRESERVATION
 PARCEL 8

LOCATION DRAWING
 RIGGS MEADOW
 LOT 8

14623 RIGGS MEADOW
 DRIVE

4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND