

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 6/21/03 - 7/9/03 TEST TIME _____

A/P 1519032

AGENCY REVIEW: _____

DATE 6/26/03

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO: PREV

CHECK AS NEEDED:

- ☒ CONSTRUCT NEW SEPTIC SYSTEM(S)
☐ REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
☐ REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- ☒ NEW STRUCTURE(S)
☐ ADDITION TO AN EXISTING STRUCTURE
☐ REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- ☒ CREATE NEW LOT(S)
☐ BUILD ON AN EXISTING LOT IN A SUBDIVISION
☐ BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- ☐ YES
☒ NO

THE TYPE OF STRUCTURE IS:

- ☒ RESIDENTIAL WITH 4-5 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
☐ COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
☐ INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Mr. Kerr c/o Winthrop Developers

DAYTIME PHONE _____ CELL 443-250-6395 FAX 410-730-8823

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT Winthrop Developers Inc

DAYTIME PHONE _____ CELL 443-250-6395 FAX 410-730-8823

MAILING ADDRESS PO Box 279 - Highland MD 21070
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Brunkley LOT NO. 73A

PROPERTY ADDRESS Swindell Circle - Ellicott City
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 17 GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE 1.00

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Cindy Del Zoppo

SIGNATURE OF APPLICANT

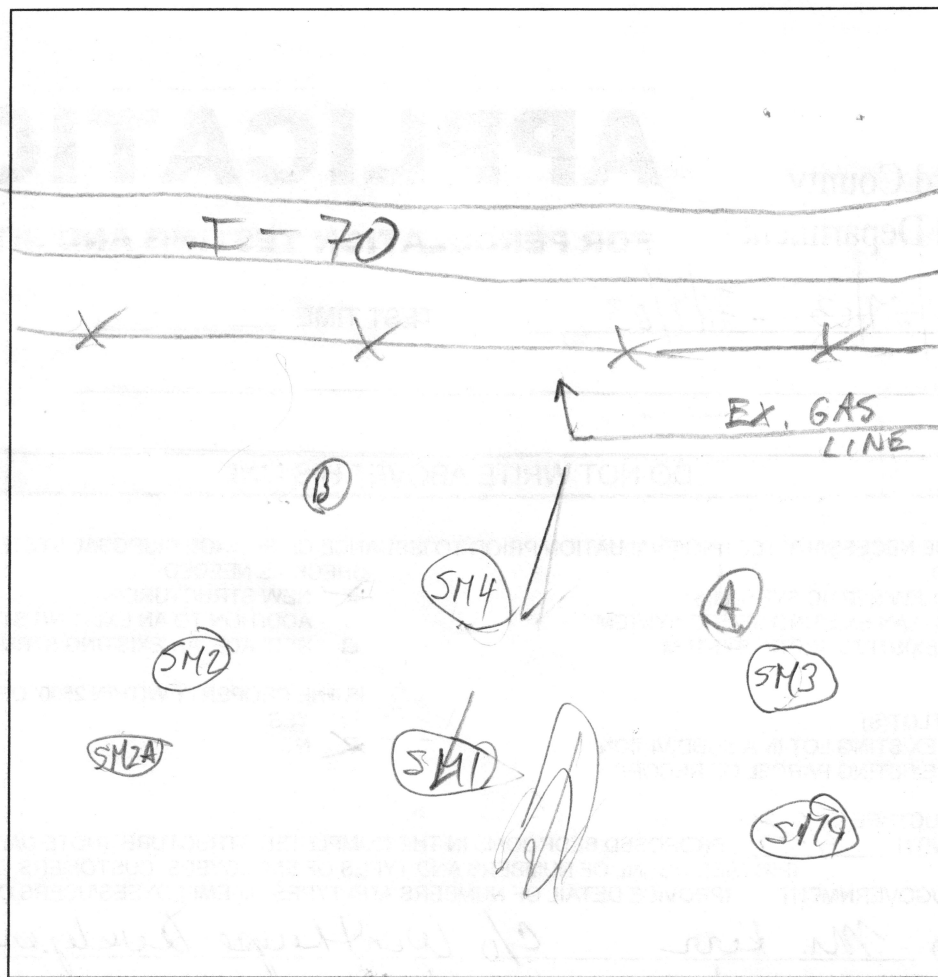
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P

SM3 dk brn
sac/lm
9-10" brn orge
sac/lm
17" brn orge
mi. sa.

SM4 brn hvy
sa/lm
9" orge brn
hvy/lm
18" brn orge
sa mi/lm
30"

SM1 brn sa
cl/lm
10" orge brn
cl/lm
24" brn gray
mica sand



SM1
2A
brn
sa/lm
20%
12" tan brn
sand
30-40%
17" RX

SM9
brn hvy
lm
8" orge brn
hvy/lm
15" brn
sa/lm
30"

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
7/9/03	A, B	3-4	OK FOR S.M. TESTS				
7/24/03	SM3		see profiles				OK
	SM4						↓
	SM1						
	SM9						
7/24/03	SM2		NOT USED - NOT LEVEL				
	SM2A		"	"	-RX		F

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

TEST DATA

NAME <u>Brinkleigh P. 378 / Kehr</u>	FILE NO <u>A 519032</u>
LOCATION _____	COUNTY <u>Howard</u>
	DATE <u>7/24/03</u>
	GRID _____ E
RECORDED BY <u>M. Ripkin</u> N	

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
SM3	7 1/4"	9"	1:41	—	10"	> 1 15/32
			1:56	15	8 17/32	
			2:11	15	7 22/32	
			2:26	15	6 30/32	
			2:44	18	6 4/32	
			2:59	15	5 17/32	
			3:00	—	10	
	7"	REPOUR	3:15	15	9 7/16	> 9/16
			3:30	15	8 7/16	
			3:50	20	7 19/32	
SM4	7"	9"	1:50	—	35	> 1 1/16 = 22/32
			2:05	15	34 5/16	
			2:20	15	33 23/32	
			2:38	18	33 2/32	
			2:53	15	32 27/32	
			3:13	20	32 8/32	
			3:33	20	31 30/32	
			3:53	20	31 20/32	

OK

OK

TEST DATA

NAME Brinkleigh / Kehr P. 378 FILE NO. _____

LOCATION _____ COUNTY Howard

DATE 7/24/03

GRID _____ E

RECORDED BY M. Riskin N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
SM-1	7"	9 1/2	3:30 4:00 4:15 4:17 4:32 4:47 5:02	— 15 15 — 15 15 15	10 7 13/16 7 6/16 10 9 1/2 9 8 1/2	> 2 3/16 > 7/16 > 8/16 > 8/16 > 8/16 > 8/16 OK
SM-9	7"	8"	4:00 4:05 4:05 4:10 4:25 4:25 4:40 4:42 4:57 4:57 5:12 5:27 5:27 5:42 5:57	— 5 — 5 15 — 15 — 15 — 15 15 15 15	10 6 15/16 10 8 7/32 4 10 6 23/32 10 7 3/16 10 7 23/32 6 8/32 10 8 9/16 7 3/16	> 3 1/16 > 1 25/32 > 4 7/32 > 3 8/32 > 2 13/16 > 2 5/32 > 1 19/32 > 1 7/16 > 1 7/16 OK
	7 1/2					

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157
(410) 876-7740
FAX (410) 840-9924

JOB KEHR PROPERTY

SHEET NO. 378 OF

CALCULATED BY DATE 1/12/04

CHECKED BY DATE

SCALE

4 BED ROOMS = $4 \times 150 = 600$ GPD
@ 1.0 GPD / sq. ft. = 600 sq. ft. BED
BED - $9' \times 67' = 603$ sq. ft. 10% SLOPE

UP SIDE SAND = 24"
DOWN SIDE " = $24" + (0.10) 108" = 24" + 11" = 35"$

UP SLOPE SET BACK = $24" + 22" (3) (0.77) = 106" = 8' - 10"$
DOWN SLOPE SET BACK = $35" + 22" (3) (1.44) = 246" = 20' - 6"$
SIDE SLOPE SET BACK = $\frac{24" + 35"}{2} + 28 (3) = 172" = 14' - 4"$

MOUND WIDTH = $9' + 20' - 6" + 8' - 10" = 38' - 4"$
MOUND LENGTH = $67' + 14' - 4" + 14' - 4" = 95' - 8"$

PUMP RATE - 36 PERFORATIONS @ 1.63 = 59 GPM

DOSE = $5 \times 2 \times 62.33' = 623' - 1\frac{1}{2}"$ LATERAL @ 10.6 GAL/100'
 $6.23 \times 10.6 = 66$ GAL

PLUS - $96' - 2" \text{ PVC @ } 17.4 \text{ GAL/100}' = 0.96 \times 17.4 = 17$ GAL
 $66 + 17 = 83$ GAL DOSE = $600 / 6 = 100$ GAL.

100 GAL = 13.4 cu ft - TANK FLOOR AREA = 60 sq. ft.

13.4 cu ft / 60 sq. ft. = 0.22' = 2 3/4"

EMERGENCY STORAGE = $2' \times 60' = 120$ cu ft = 898 GAL

TDH - ELEV. DIFFERENCE $468.66 - 455.7 = 13'$

DISTAL HEAD 2'

f - 2" PVC - 6 + VALVE + L + UNION + L + L + 90' + L + 1' + T

$6 + 1.3 + 7 + 2 + 7 + 7 + 90 + 7 + 1 + 10 = 138'$

$f = 0.0984 \frac{59^{1.85}}{2.067^{4.87}} = 0.0984 \frac{1888}{34.33} = 5.4' / 100'$

$f = 1.38 \times 5.4 = 7.5'$

TDH = $13' + 2' + 7.5' = 23'$ Plus Loss THROUGH LATERALS

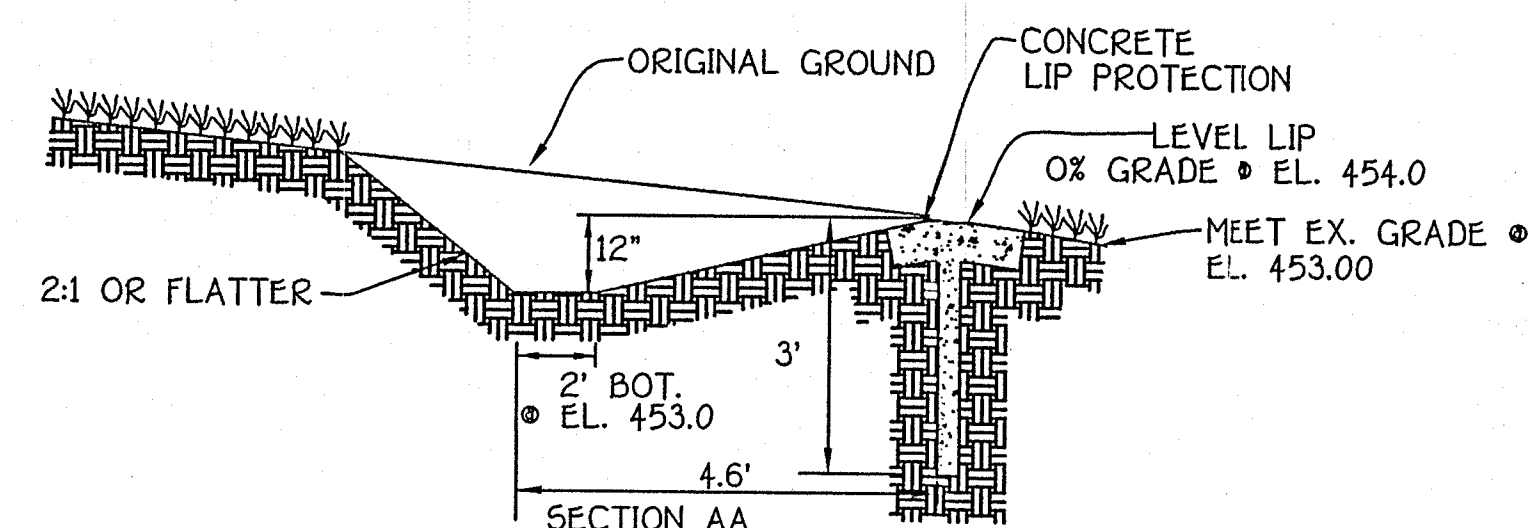
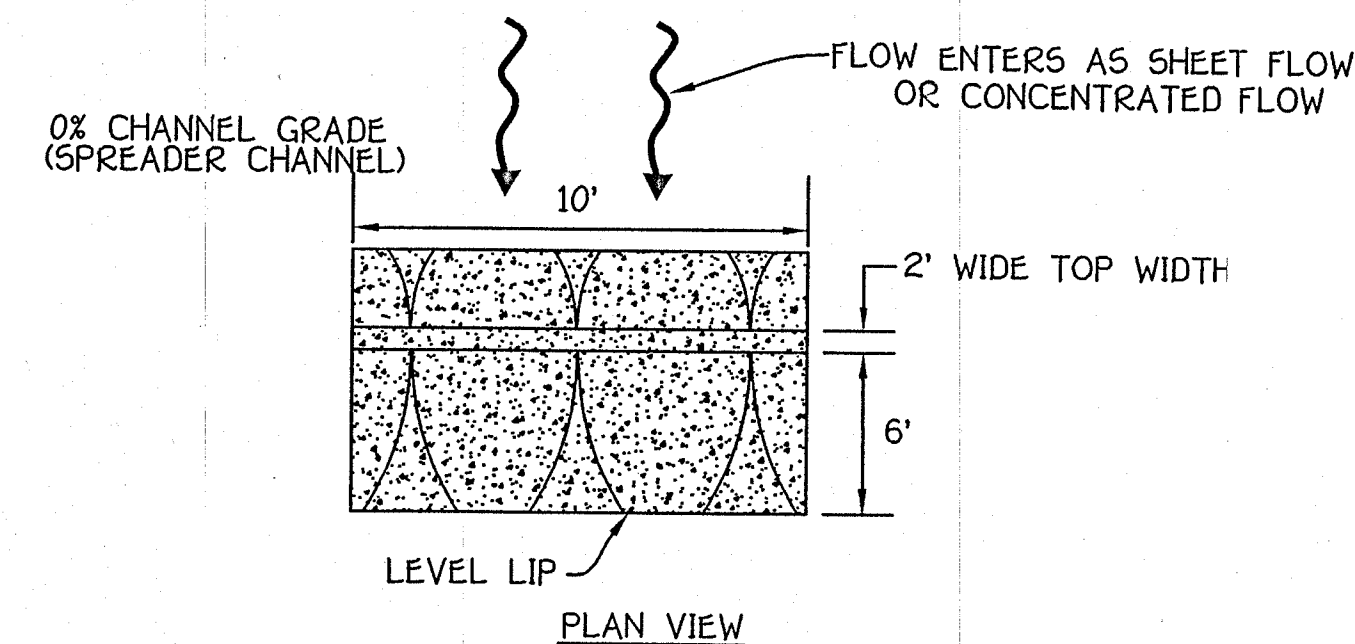
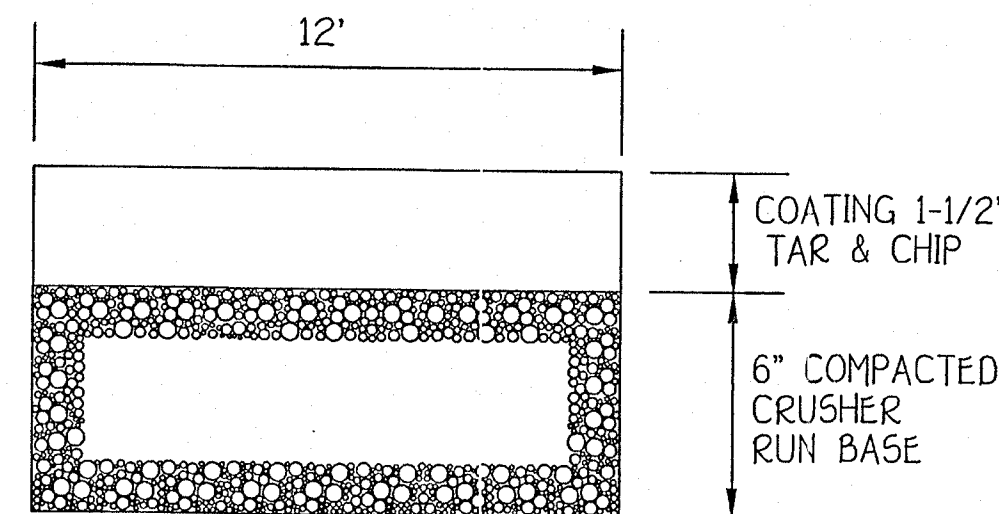
PUMP TO REMOVE 59 GAL @ 23' TDH -
COULDS 3885 - W 607 H 0 EQUAL.

GENERAL NOTES:

1. THE TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY FISHER, COLLINS AND CARTER, INC., JULY 20, 2003.
2. REFERENCE HOWARD COUNTY PLAT 1624B.
3. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILD RESTRICTION REGULATIONS.
4. LIMIT OF DISTURBED AREA: 0.7856 ACRES OR 34,220.04 S.F.
5. PUBLIC WATER IS AVAILABLE TO THIS SITE.
6. THIS AREA DESIGNATES A PRIVATE SEWERAGE RESERVE AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS RESERVE AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE RESERVE AREA.
7. HOWARD COUNTY HEALTH DEPARTMENT PLAN IDENTIFICATION NUMBER (PC-519033)
8. PARCEL 378 HAS A FOUR (4) BEDROOM LIMIT.

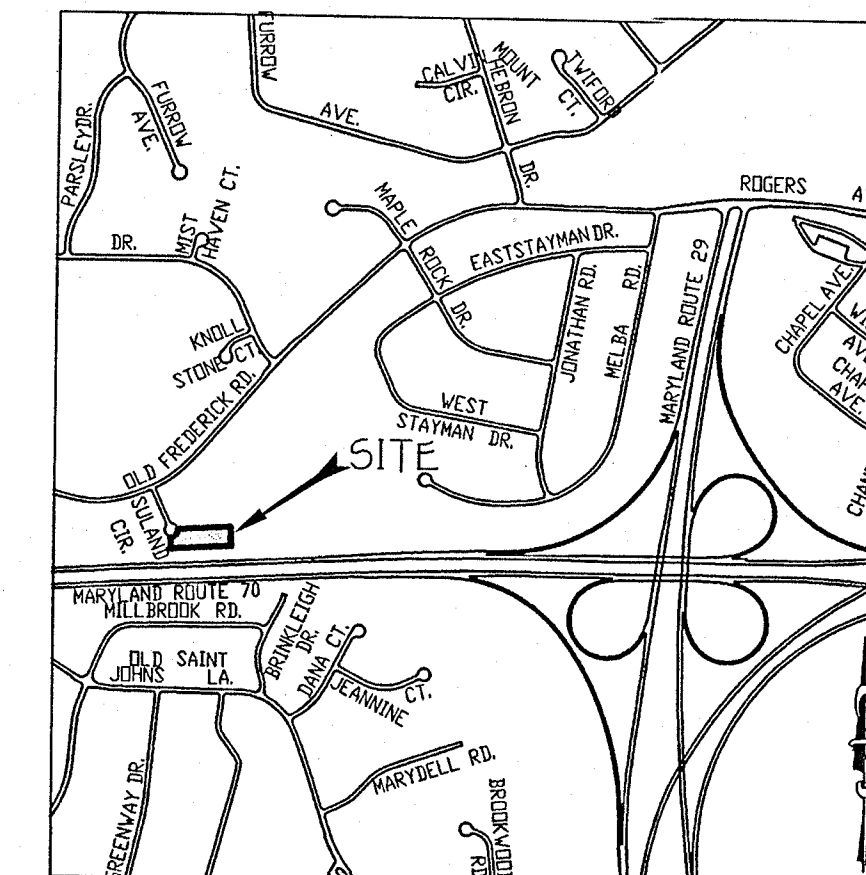
TYPICAL DRIVEWAY PAVING SECTION DETAIL

NOT TO SCALE

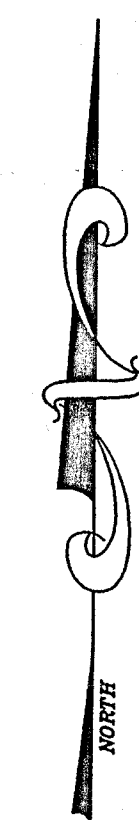


LEVEL SPREADER SECTION @ GRASS CHANNEL

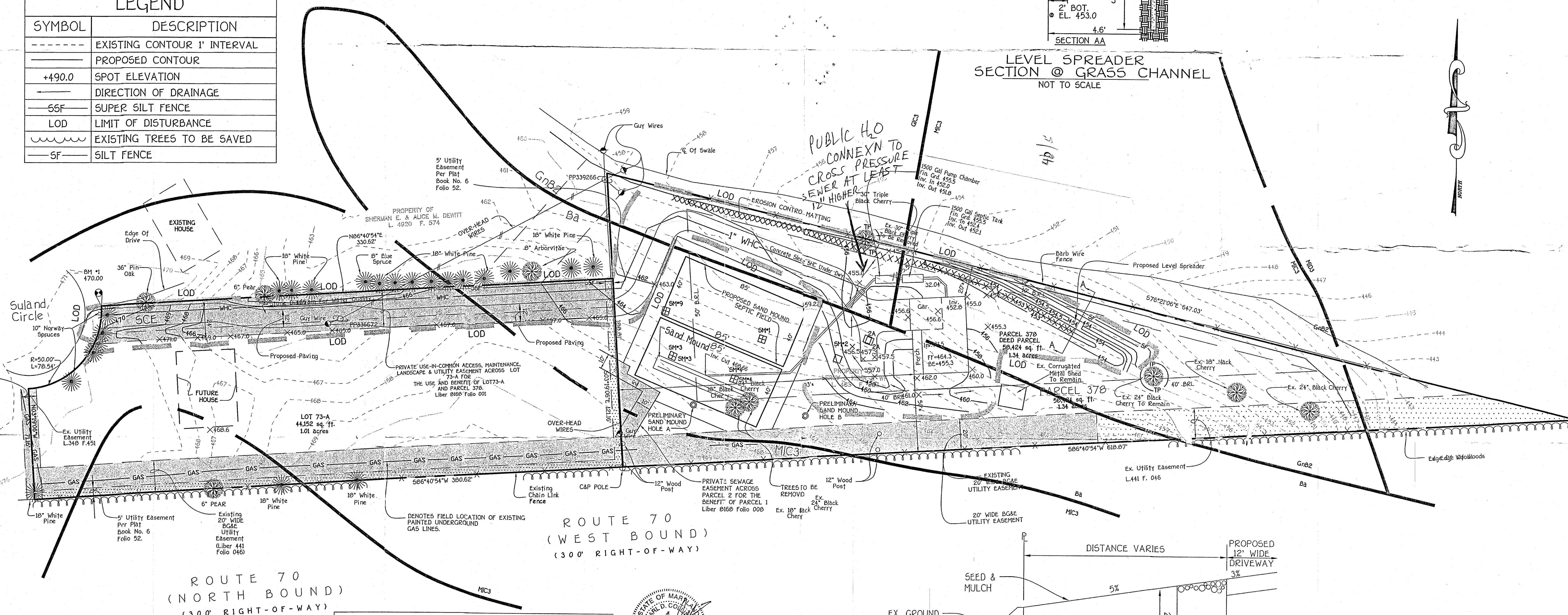
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 1200'



SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 1' INTERVAL
---	PROPOSED CONTOUR
+490.0	SPOT ELEVATION
---	DIRECTION OF DRAINAGE
---	SUPER SILT FENCE
---	LIMIT OF DISTURBANCE
---	EXISTING TREES TO BE SAVED
---	SILT FENCE



ROUTE 70
(NORTH BOUND)
(300' RIGHT-OF-WAY)

ROUTE 70
(WEST BOUND)
(300' RIGHT-OF-WAY)

ENGINEER'S CERTIFICATE

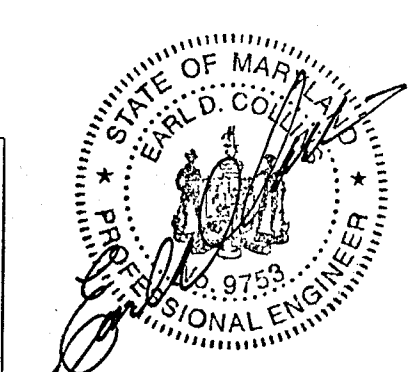
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: Earl D. Collins Date: _____

DEVELOPER'S CERTIFICATE

"I/we certify that all development and construction will be done according to this plan for sediment and erosion control 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."

Signature of Developer: Scott Szeliga Date: _____

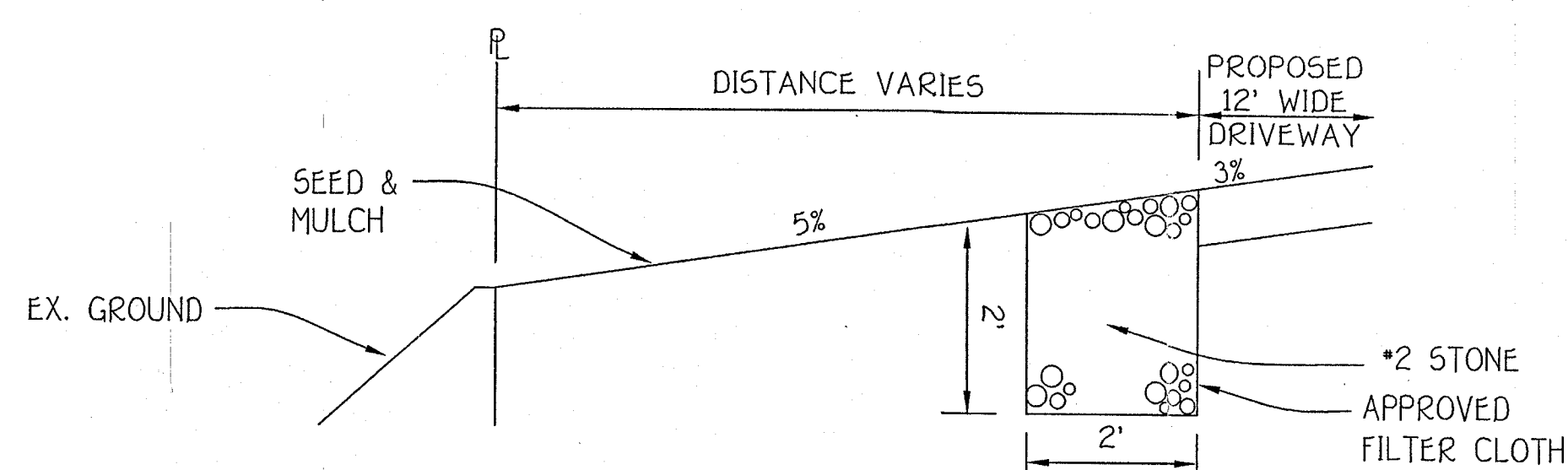


Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A. Natural Resources Conservation Service Date: _____

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD Date: _____



STONE DIAPHRAM FOR WATER QUALITY (REV WQV)

NOT TO SCALE

DEVELOPER

WINTHORPE INCORPORATED
P.O. BOX 279
HIGHLAND, MD 20777-0279

OWNER

MR. LEROY D. KEHR
*9406 SULAND CIRCLE
ELLICOTT CITY, MD 21042-1713

PLOT PLAN BRINKLEIGH

PARCEL 378

TAX MAP 17 PARCEL: 378

LOT "73-A" SECTION "4"

(PLAT OF BRINKLEIGH
PLAT BOOK 6/FOLIO 052)

SECOND ELECTION DISTRICT ZONED: R-20 HOWARD COUNTY, MARYLAND

SCALE: 1"=30' DATE: MARCH 20, 2004

SHEET 1 OF 2