



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A# 520093

AGENCY REVIEW: _____ DATE 3/12/2004

DO NOT WRITE ABOVE THIS LINE

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

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 UNKNOWN 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) WILLIAM S. AND CINDY A. DEVERELIX

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 1850 FLORENCE RD MOUNT AIRY MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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


PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME KOGAN TRUST PROPERTY LOT NO. 1

PROPERTY ADDRESS 1850 SW FLORENCE RD. MOUNT AIRY
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 6 GRID 23 PARCEL(S) 247 PROPOSED LOT SIZE _____

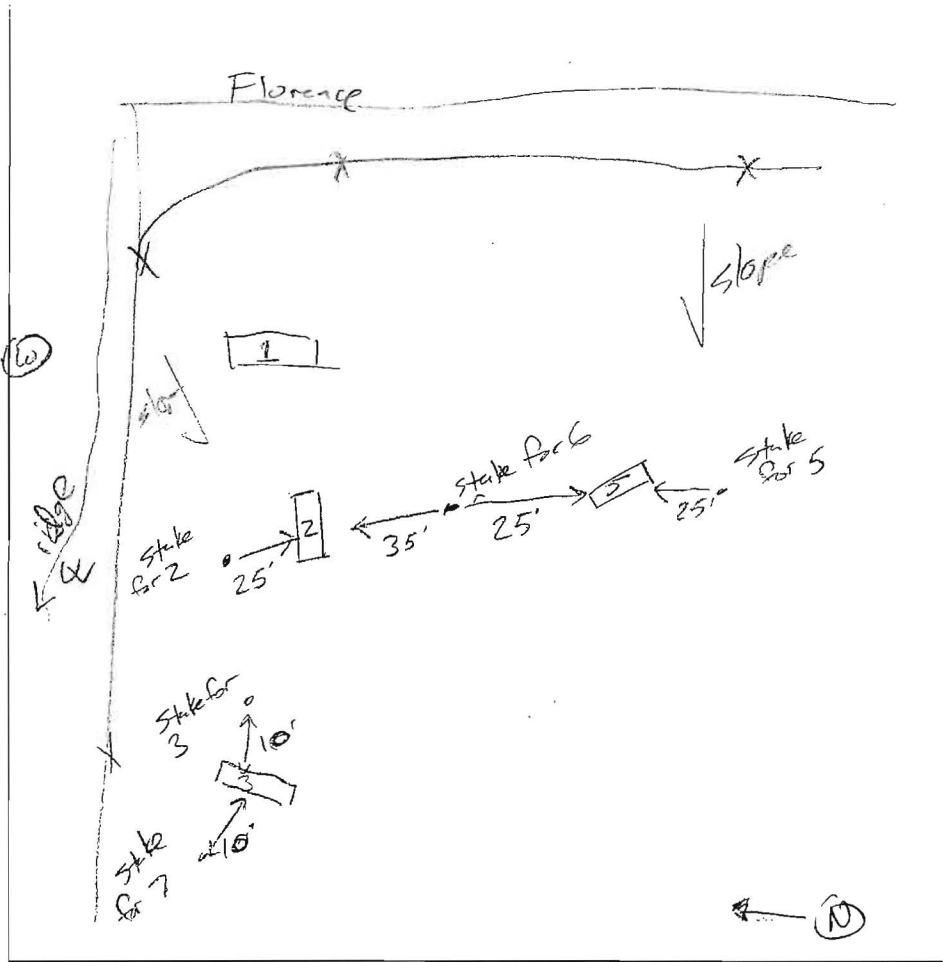
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A.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

TEST RESULTS WILL BE MAILED TO APPLICANT.


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

1
 orange brown sandy SIL
 5
 orange brown cw SIL w/ 10-15% channery frags
 12 1/2



3
 2 1/2
 orange brown SIL
 orange brown white cw SIL w/ 10-15% coarse frags
 13

2
 orange brown SIL
 1 1/2
 orange brown SIL
 4
 orange brown SIL w/ 15-20% coarse frags
 10
 hard bottom

5
 Brown fine
 3
 orange brown white SIL w/ <10% coarse frags
 12

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
5/7/04	1	6 / 12 1/2	11:35	11:41	11:51	10	P
	2	5 / 10	11:39	11:44	11:52	8	P
	5	5 / 12	11:45	11:47	11:51	4	P
	3	5 1/2 / 13	11:55	12:05	12:20	15	P

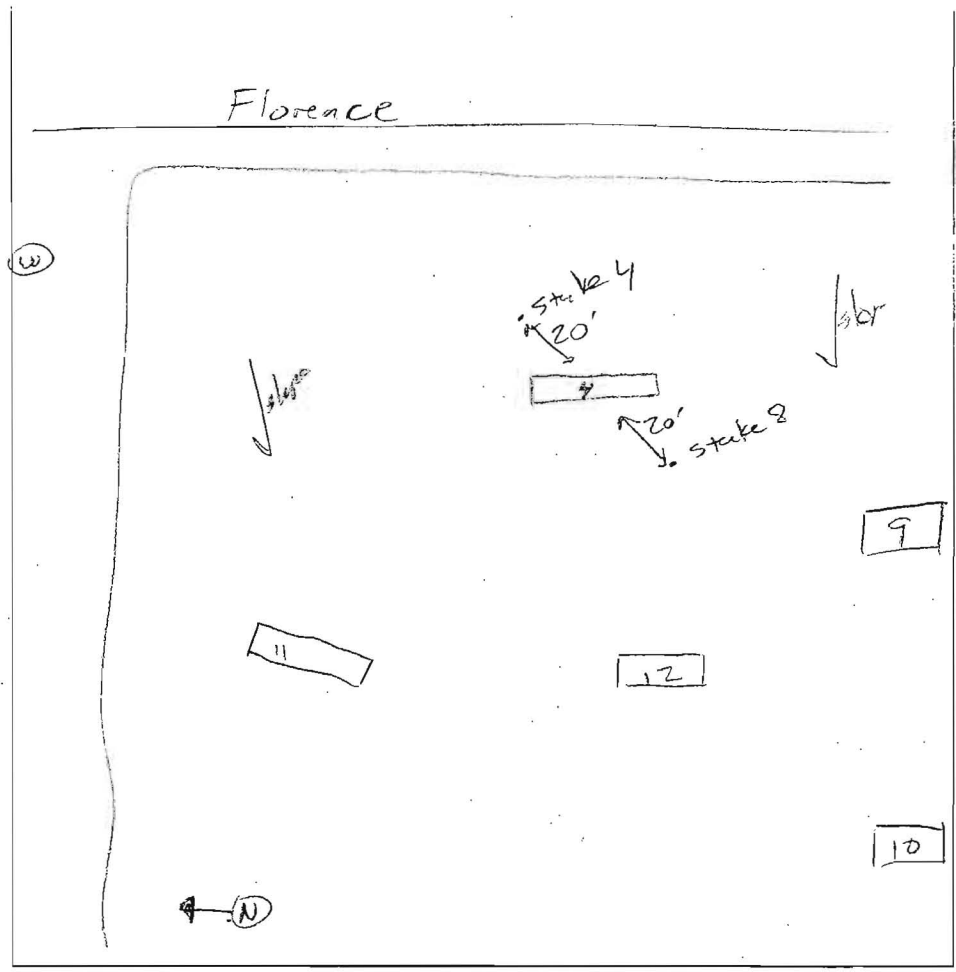
REMARKS Grot dig; NOTE new hole config
 SANITARIAN J. Boris BACKHOE Wagner OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

A/P 4
 orange brown SiCL
 3 1/2
 orange brown white SiL w/ < 15% coarse frags

11
 orange brown SiCL
 3 1/2
 orange brown cw SiL w/ 15-20%

frable sap channels & coarse frags
 9 1/2 hard bottom

12
 orange brown SiCL
 4 1/2
 orange brown cw SiL w/ 15-20% frable sap & coarse frags



10
 orange brown SiCL
 3 1/2
 orange brown cw SiL w/ 15-20% channely frags

9
 orange brown SiCL
 3
 orange brown cw SiL w/ 10-20% channely frags
 7
 orange brown SiL w/ 10-15% frable sap frags

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
5/7/04	4	5 1/2 / 12	12:09	12:16	12:25	9	P
5/7/04	11	4 / 9 1/2	12:24	12:45	1:10	25	P
5/7/04	12	5 1/2 / 12 1/2	12:32	12:42	1:00	18	P
5/7/04	10	5 / 12 1/2	12:51	1:00	1:19	9	P
5/7/04	9	5 / 12 1/2	1:10	1:28	1:51	23	P

REMARKS _____

SANITARIAN J. Boris BACKHOE W. [unclear] OTHERS _____

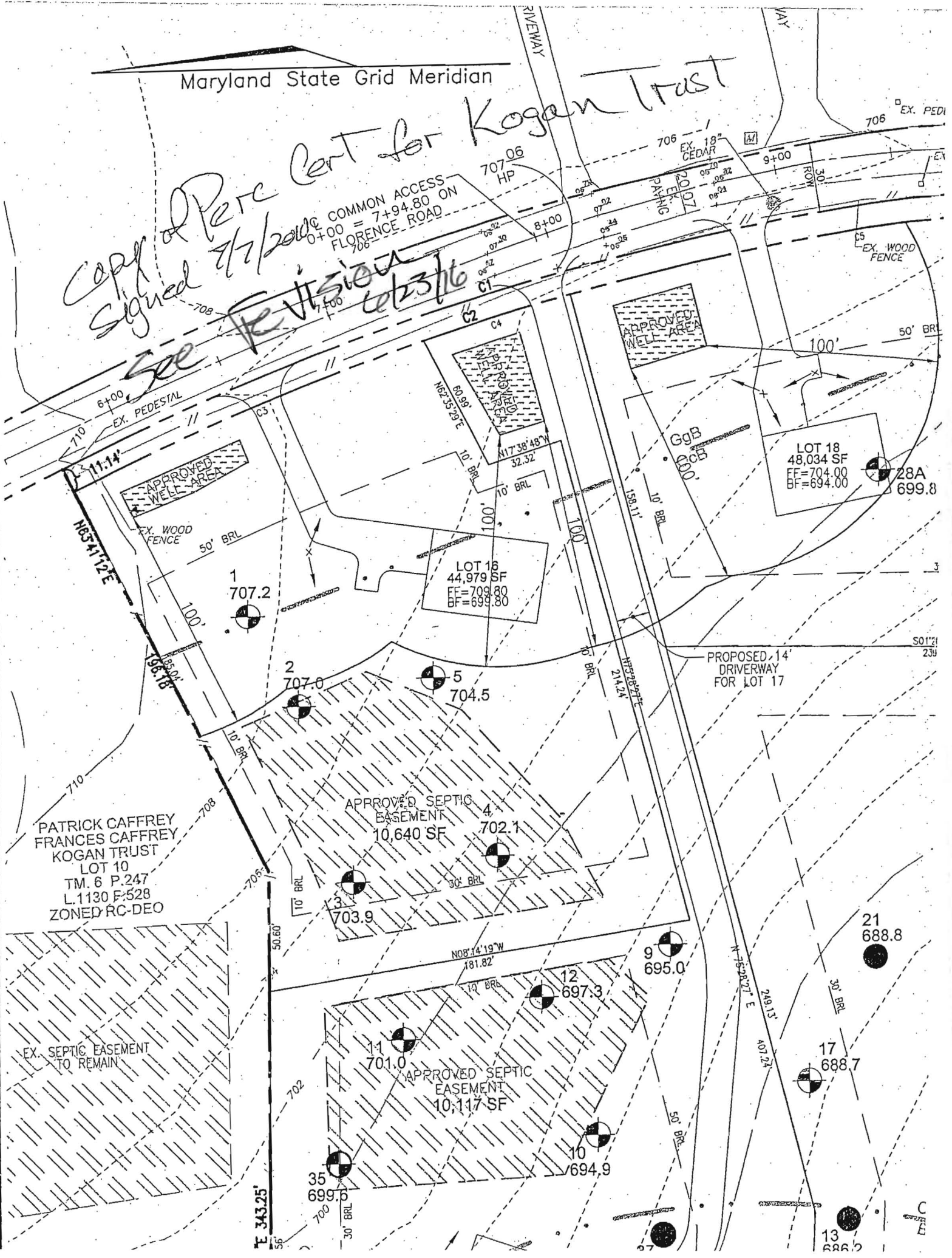
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

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

Maryland State Grid Meridian

*Copy of Perc Cert for Kogan Trust
signed 11/20/16
see Revision let 3/16*

COMMON ACCESS
0+00 = 7+94.80 ON
FLORENCE ROAD



PATRICK CAFFREY
FRANCES CAFFREY
KOGAN TRUST
LOT 10
TM. 6 P.247
L.1130 F:528
ZONED RC-DEO

APPROVED SEPTIC
BASEMENT
10,640 SF

APPROVED SEPTIC
EASEMENT
10,117 SF

LOT 18
48,034 SF
FF=704.00
BF=694.00

LOT 16
44,979 SF
FF=709.80
BF=699.80

21
688.8

17
688.7

13
686.2

9
695.0

12
697.3

11
701.0

35
699.5

10
694.9

1
707.2

2
707.0

5
704.5

4
702.1

3
703.9

707.06
HP

706
EX. 18"
CEDAR

706
EX. PED

EX. WOOD
FENCE

EX. WOOD
FENCE

EX. WOOD
FENCE

PROPOSED 14'
DRIVERWAY
FOR LOT 17

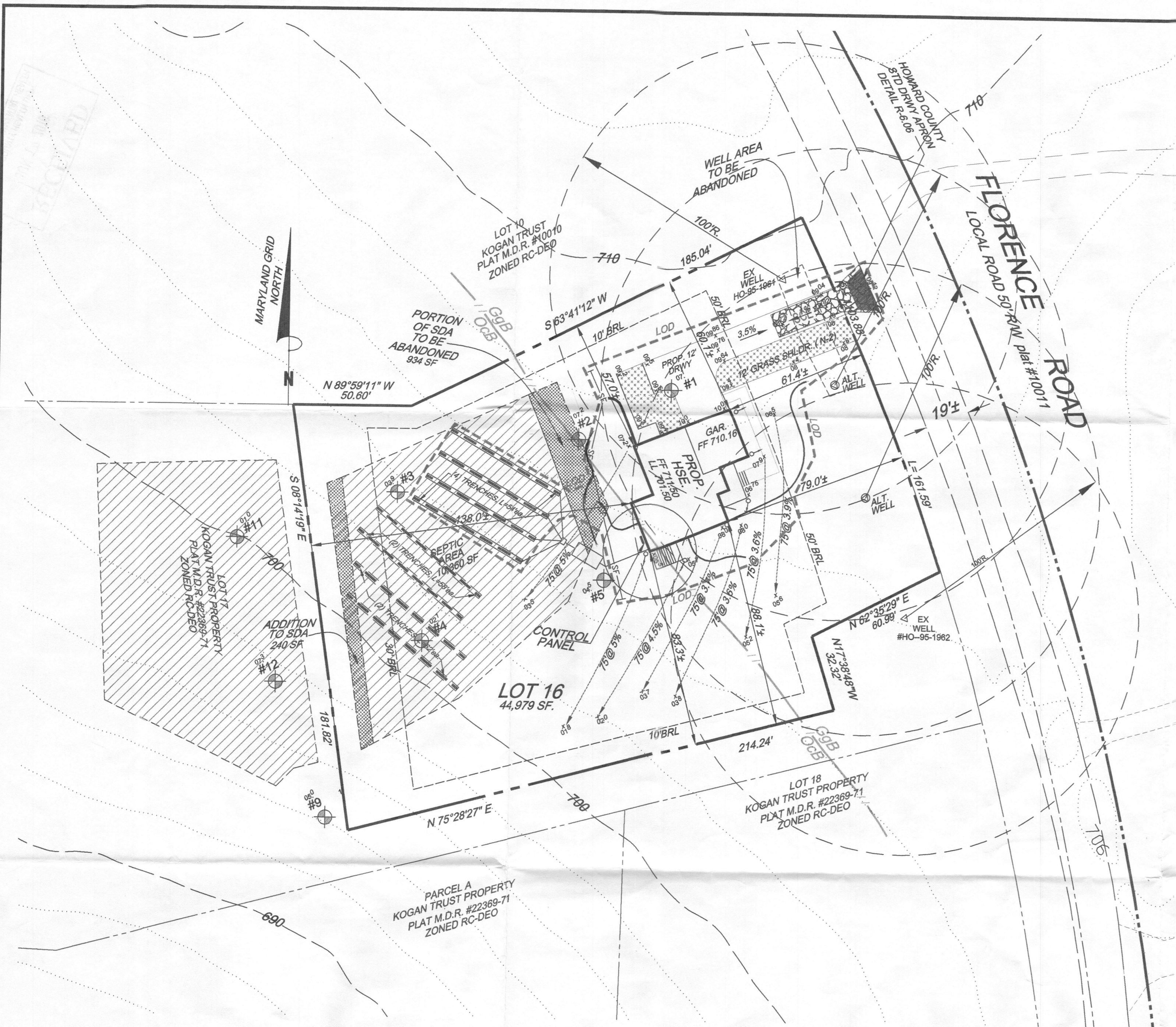
EX. SEPTIC EASEMENT
TO REMAIN

APPROVED
WELL AREA

APPROVED
WELL AREA

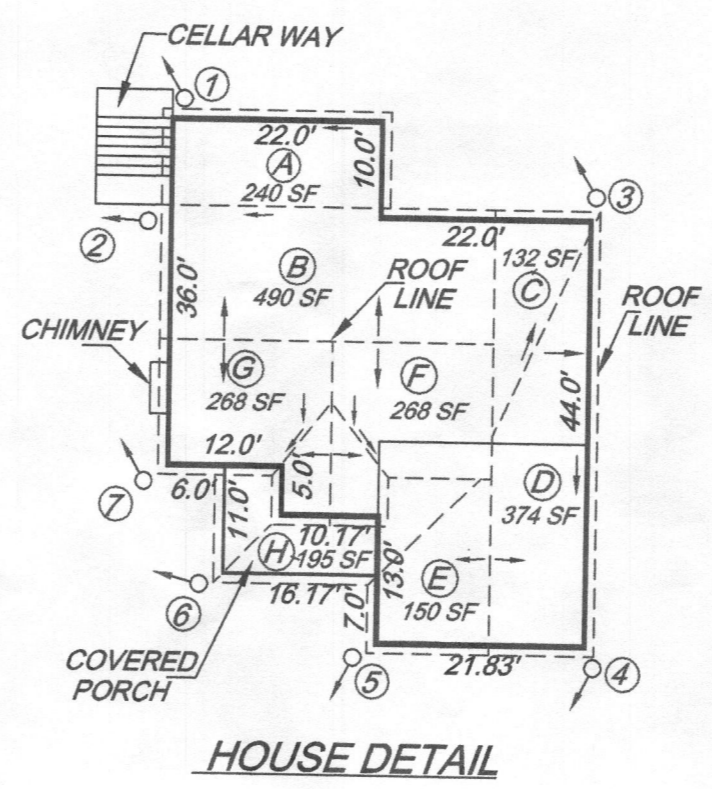
E 343.25'

C
E



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1), DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

1. Maintenance of areas receiving disconnected runoff is generally no different than that required for other lawn or landscaped areas. The areas receiving runoff should be protected from future compaction or development of impervious area. In commercial areas, foot traffic should be discouraged as well.



HOUSE DETAIL

SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	K-VALUE	HYDRO GROUP
GgB	Glenalg loam, 3 to 8 percent slopes	C	0.28	+	NOT HYDRO
OgB	Ocoquan loam, 3 to 8 percent slopes	B	0.37	+	NOT HYDRO

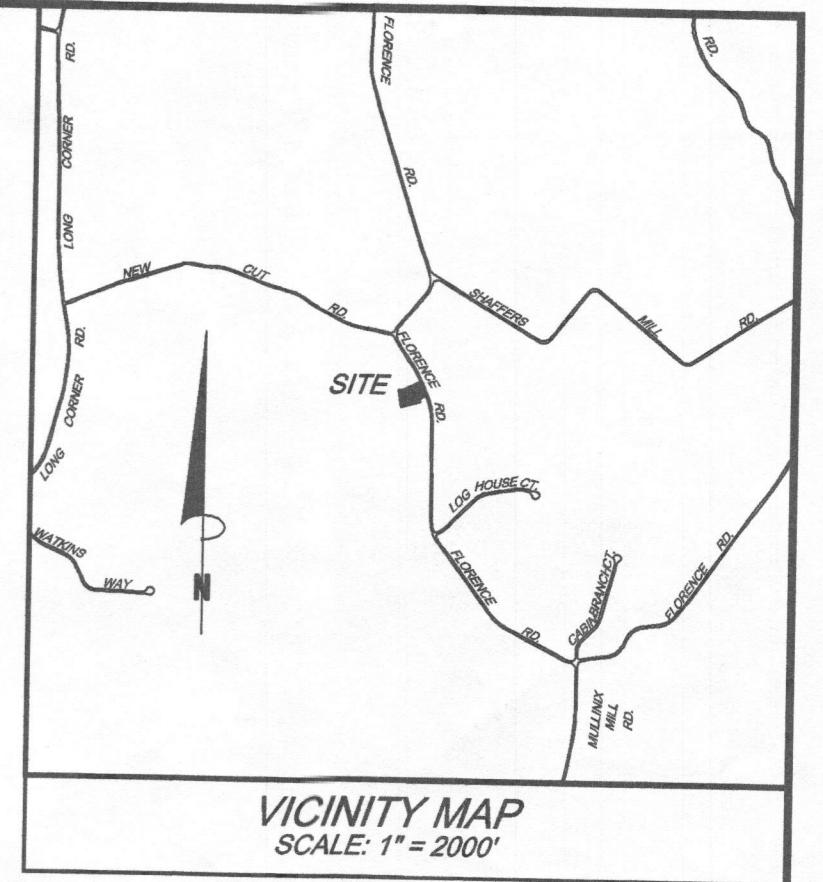
SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP #1 DAMASCUS NE, MARYLAND

LEGEND-SWM-MDE DESIGNATION

DRIVE SLOPE N-2 DENOTES NON-ROOFTOP RUNOFF DISCONNECT (EXISTING DRIVE, PAVEMENT)
 N-1 DENOTES ROOFTOP RUNOFF

STORMWATER MANAGEMENT PRACTICE CHART-ESD (SEE NOTES)									
LOT NO.	IMPV. AREA	IMPV. AREA	R ₁	R ₂	R ₃	ESD ₁ IN	ESD ₂ IN	ESD ₃ IN	SWM PRACTICE (LID)
#16	1520	44,979	40%	5%	0.13	1.0"	48"	48"	N-1=2,13K SF, N-2=1,58K SF

*LOT 16 IMPERVIOUS AREA = 4079 SF
 SWM-SITE DESIGN SATISFIED BY THE FOLLOWING LOW IMPACT DEVICES
 /N-1/ DENOTES DISCONNECTION OF ROOFTOP RUNOFF
 /N-2/ DENOTES DISCONNECTION OF NON-ROOFTOP RUNOFF "1" GRASS SHADE"



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- OWNER: MELODY WILSON
 BY: CURTIS CUMBERLAND
 CUMBERLAND DEVELOPEMENT CUSTOM HOMES
 2883 SUVALL ROAD,
 WOODBINE, MD. 21797
- DEED REFERENCE: LIBER 15952, FOLIO 026
 DATE: APRIL 28, 2016
 GRANTOR: CINDY A. DEVEREUX
- TAX MAP 006, GRID 23, PARCEL 247
- THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF THE "KOGAN TRUST PROPERTY" PLAT M.D.R. #22369-71
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #04027C00100
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83, CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
- EXISTING WELLS #HO-95-1961 & #HO-95-1962 SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
- SUBJECT PROPERTY IS ZONED RC-DEO

SITE ANALYSIS

TOTAL AREA SITE	1.0326 ACRES (44,979 SF)
AREA OF WETLANDS AND THEIR BUFFERS	0.0 ACRES (0.0 SF)
AREA OF STREAMS AND THEIR BUFFERS	0.0 ACRES (0.0 SF)
AREA OF FLOODPLAIN AND THEIR BUFFERS	0.0 ACRES (0.0 SF)
AREA OF MODERATE STEEP SLOPES 15% - 24.9%	0.0 ACRES
AREA OF STEEP SLOPES - 25% OR GREATER	0.0 ACRES
AREA OF FOREST	0.0 ACRES (0.0 SF)
AREA OF ERODABLE SOILS	0.0 ACRES (0.0 SF)
AREA DISTURBED	0.2709 ACRES (11801 SF)
AREA TO BE ROOFED	0.0490 ACRES (2135 SF)
AREA TO BE PAVED	0.0446 ACRES (1941 SF)
TOTAL IMPERVIOUS AREA	0.0836 ACRES (3676 SF)
AREA TO BE VEGETATIVELY STABILIZED	0.1773 ACRES (7,723 SF)
TOTAL VOLUME CUT	425 CY.
TOTAL VOLUME FILL	425 CY.

HEALTH DEPARTMENT NOTES

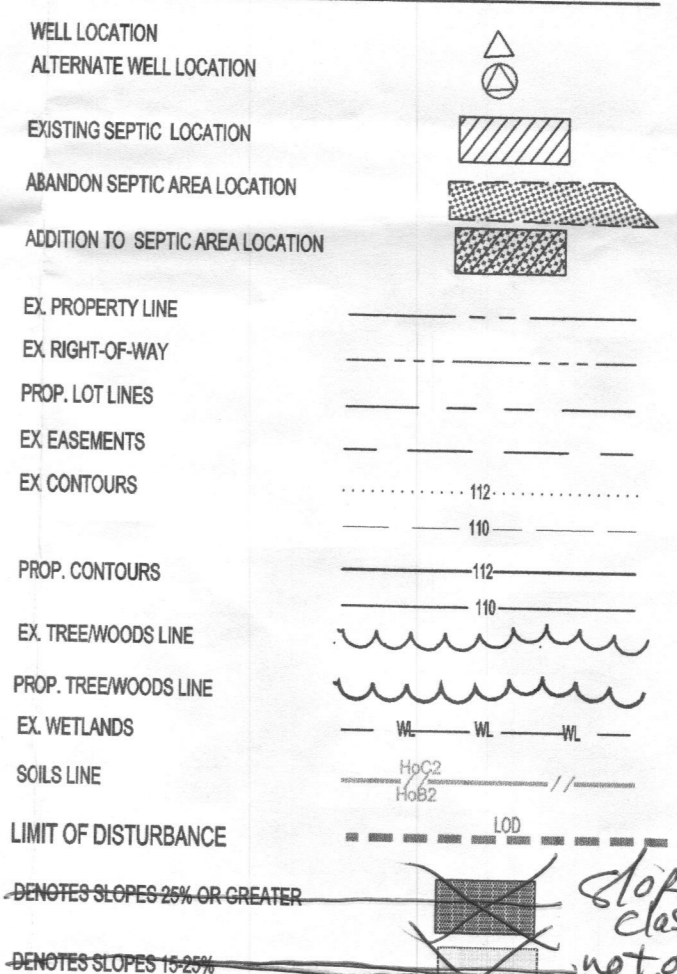
- THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP, WIDTH AND AREA REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THE AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQ-FT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENTS.
- EXISTING WELLS #HO-95-1961 AND #HO-95-1962 SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
- THERE ARE NO EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100FT OF THE LOT LINES SHOWN HEREON UNLESS NOTED OTHERWISE.
 ⊕ DENOTES "PASSED" PERCOLATION TEST
 ⊖ DENOTES "FAILED" PERCOLATION TEST
- THE NEAREST WATER INTAKE STRUCTURE IS FOUR MILES+ AWAY.

SEPTIC SYSTEM DESIGN:

DESIGN FLOW: 4 - BEDROOM DWELLING DESIGN FLOW, = 600 GPD
 PERCOLATION TEST TIME < 15 MINUTES
 DEEP TRENCH WIDTH W = 2', DEPTH OF STONE = 2' BELOW INVERT OF PIPE
 LENGTH OF TRENCH REQ'D = 214 LF
 USE (4) TRENCHES L = 54' EACH
 (B.A.T. SYSTEM)
 PRE-TREATMENT UNIT - SHALL BE MODEL TMTLP UNIT BY NORWECO OR APPROVED EQUAL CAPACITY = 600 GPD
 CONTROL PANEL - SHALL BE NORWECO SINGULAR TMT CONTROL PANEL AS MANUFACTURED BY NORWECO OR APPROVED EQUAL
 PRE-TREATMENT UNIT VAULT - SHALL BE A PRE-CASTE CONCRETE VAULT, MANUFACTURED BY BACK RIVER PRECAST, INC. OR APPROVED EQUAL
 SEPTIC SYSTEM DATA: (4 - BEDROOM DWELLING)
 BASMT. F.F. ELEVATION = 701.5
 INVERT 4" SS @ BLDG. ELEV. = 713.18

PRE-TREATMENT UNIT - (VAULT)
 FINISH GRADE = ELEV. 705.00
 INVERT (IN) = ELEV. 702.73
 INVERT (OUT) = ELEV. 702.40
 DISTRIBUTION BOX
 FINISH GRADE = ELEV. 705.0
 INVERT (IN) = ELEV. 702.29
 INVERT (OUT) = ELEV. 702.20
 INITIAL SYSTEM
 TRENCH #1 (T1) GRD. ELEV. 706.8
 INVERT (IN) ELEV. 701.8
 TOP OF STONE ELEV. 702.47
 BOTTOM OF STONE ELEV. 699.9
 TRENCH #2 (T2) GRD. ELEV. 705.1
 INVERT (IN) ELEV. 701.1
 TOP OF STONE ELEV. 701.77
 BOTTOM OF STONE ELEV. 699.1
 TRENCH #3 (T3) GRD. ELEV. 704.5
 INVERT (IN) ELEV. 700.5
 TOP OF STONE ELEV. 701.17
 BOTTOM OF STONE ELEV. 698.5
 TRENCH #4 (T4) GRD. ELEV. 703.9
 INVERT (IN) ELEV. 699.9
 TOP OF STONE ELEV. 700.57
 BOTTOM OF STONE ELEV. 697.9

LEGEND



OWNER:
MELODY WILSON
7404 OLD CHAPEL DR.
BOWIE, MD. 20715
(tel.) 301-717-8348

BUILDER:
CUMBERLAND DEVELOPEMENT CUSTOM HOMES
C/O CURTIS CUMBERLAND
2883 SUVALL RD.
WOODBINE, MD. 21797
(tel.) 301-252-1122

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
 CHIEF, DIVISION LAND DEVELOPEMENT
 CHIEF, DEVELOPEMENT ENGINEERING

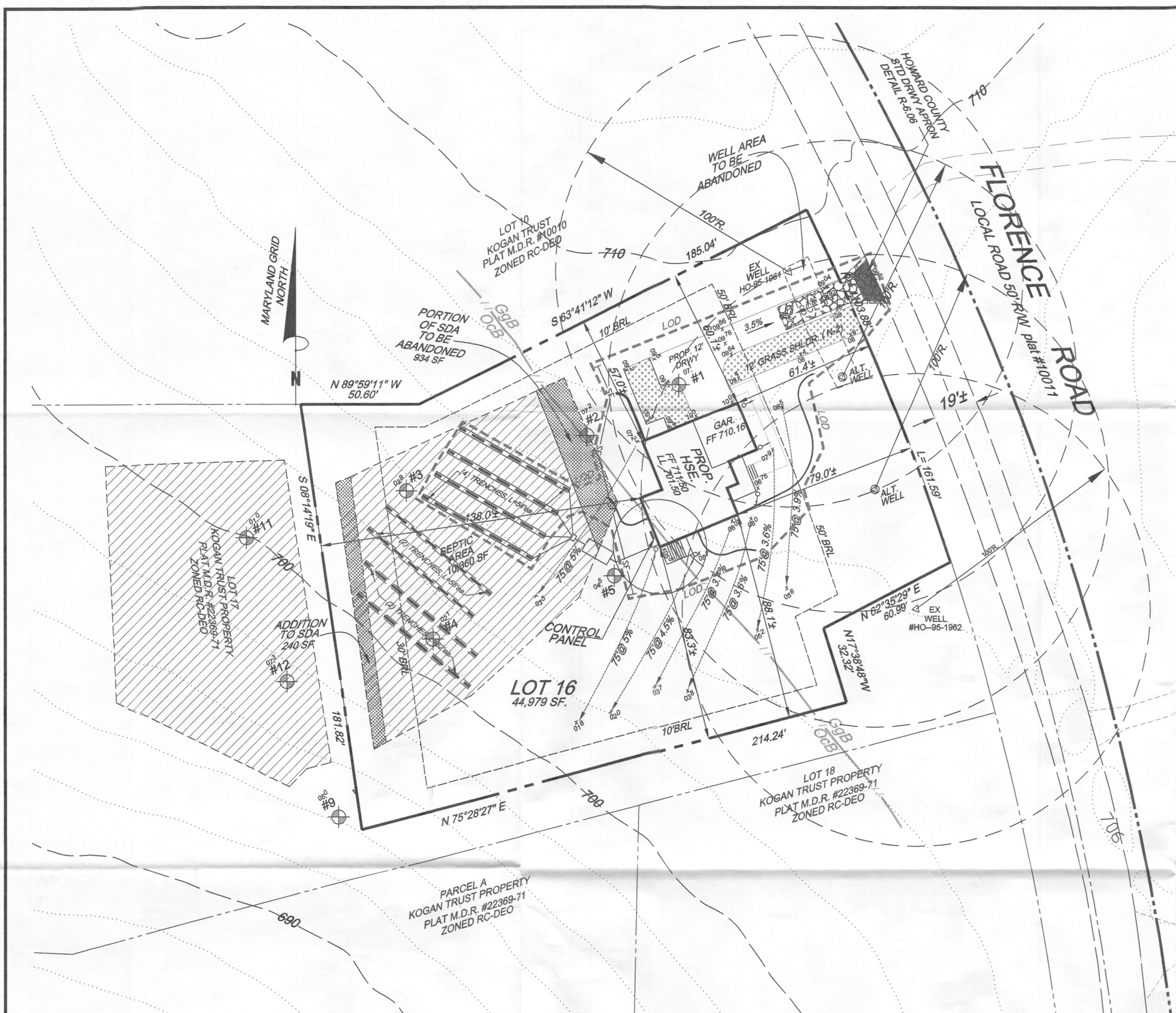
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH OFFICER
 DATE: 6/23/2016

PERCOLATION CERTIFICATION
 I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.
 CHARLES R. CROCKEN, PE, M.D. LICENSE REG. NO. 7803
 DATE: 6-17-16

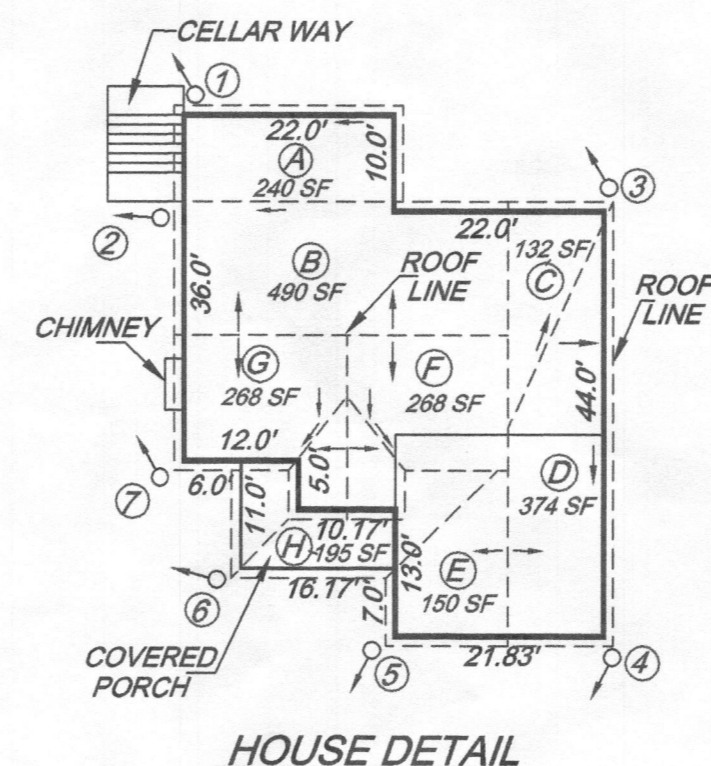
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 7803 EXPIRATION DATE 4-22-2017
 CHARLES R. CROCKEN, PE, M.D. LICENSE REG. NO. 7803
 DATE: 6-17-16

REVISED PERCOLATION CERTIFICATION PLAN
 LOT 16
 "KOGAN TRUST PROPERTY"
 #1820 FLORENCE RD
 SINGLE FAMILY DETACHED
 PLAT M.D.R. #22369-71
 ZONED RC-DEO
 FOURTH ELECTION DISTRICT TAX MAP #06, GRID 23, PARCEL 247
 HOWARD COUNTY, MARYLAND
 Prepared by:
 CHARLES R. CROCKEN AND ASSOCIATES, INC.
 802 LEE AVE.
 SYKESVILLE, MARYLAND 21157
 Tel. (410) 549-2708
 SCALE: 1" = 30'
 DATE: 05/09/16
 SHEET 1 OF 1



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1), DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

1. Maintenance of areas receiving disconnected runoff is generally no different than that required for other lawn or landscaped areas. The areas receiving runoff should be protected from future compaction or development of impervious areas. In commercial areas, foot traffic should be discouraged as well.



SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	K-VALUE	HYDRC GROUP
GgB	Glenelg loam, 3 to 8 percent slopes	c	0.28	+	NOT HYDRC
OcB	Cocquan loam, 3 to 9 percent slopes	B	0.37	+	NOT HYDRC

SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP # 1 DAMASCUS NE, MARYLAND

LEGEND - SWM - MDE DESIGNATION

DRIVE SLOPE N-2 DENOTES NON-ROOFTOP RUNOFF DISCONNECT (EXISTING DRIVE, PAVEMENT)

N-1 DENOTES ROOFTOP RUNOFF

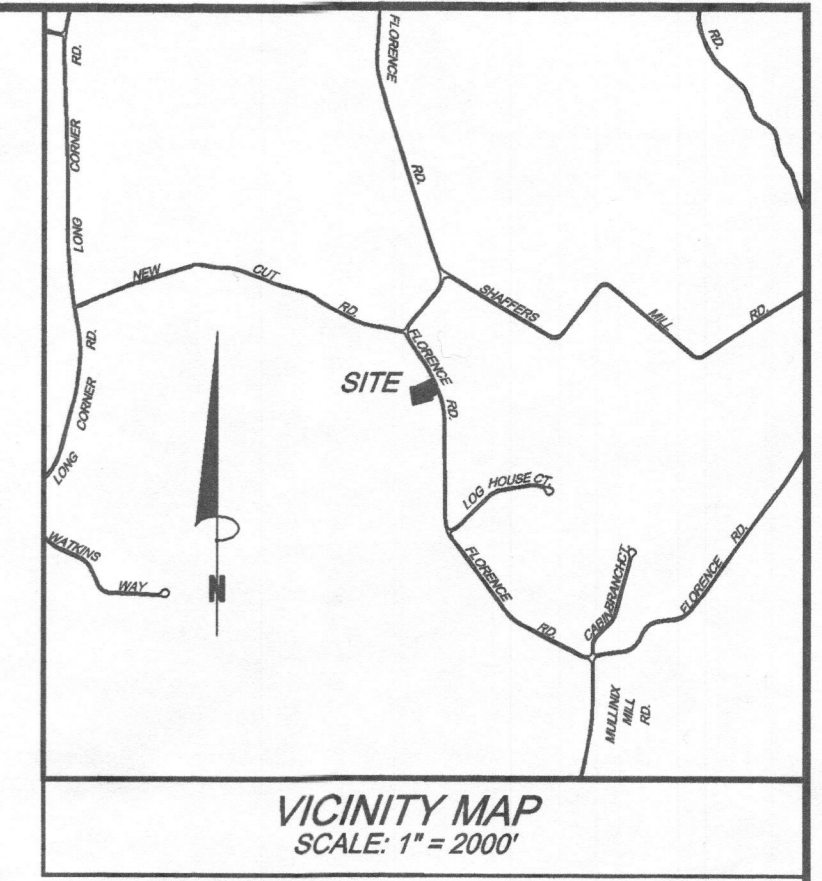
STORMWATER MANAGEMENT PRACTICE CHART - ESD (SEE NOTES)									
LOT NO.	AREA (SQ FT)	IMPERVIOUS AREA (%)	INCHES	INCHES	ESD (IN)	SWM PRACTICE (L/D)			
#16	44,979	40%	8.13	1.0"	48"	N-1 = 2,139 SF, N-2 = 1,941			

*LOT-18 IMPERVIOUS AREA = 4079 SF

SWM-SITE DESIGN SATISFIED BY THE FOLLOWING "LOW IMPACT DEVICES"

(N-1) DENOTES DISCONNECTION OF ROOFTOP RUNOFF

(N-2) DENOTES DISCONNECTION OF NON-ROOFTOP RUNOFF = 1" GRASS SHOULDER



GENERAL NOTES

- OWNER: MELODY WILSON
CUMBERLAND DEVELOPMENT CUSTOM HOMES
2983 DUVALL ROAD,
WOODBINE, MD. 21797
- TAX MAP 006, GRID 23, PARCEL 247
- THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF THE 'KOGAN TRUST PROPERTY' PLAT M.D.R. #22369-71
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #602700100
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83, CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
- EXISTING WELLS #HO-95-1961 & #HO-95-1962 SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
- SUBJECT PROPERTY IS ZONED RC-DEO

HEALTH DEPARTMENT NOTES

- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND AREA REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THE AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQ-FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENTS.
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- THERE ARE NO EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 1000' OF THE LOT LINES SHOWN HEREON UNLESS NOTED OTHERWISE.
⊕ DENOTES "PASSED" PERCOLATION TEST
⊖ DENOTES "FAILED" PERCOLATION TEST
- THE NEAREST WATER INTAKE STRUCTURE IS FOUR MILES+ AWAY.

SEPTIC SYSTEM DESIGN:

DESIGN FLOW: 4 - BEDROOM DWELLING DESIGN FLOW, = 600 GPD
PERCOLATION TEST TIME < 15 MINUTES
DEEP TRENCH WIDTH W = 2', DEPTH OF STONE = 2' BELOW INVERT OF PIPE
LENGTH OF TRENCH REQ'D = 214 LF
USE (4) TRENCHES L = 54' EACH

(B.A.T. SYSTEM)
PRE-TREATMENT UNIT - SHALL BE MODEL TMTLP UNIT BY NORWECO OR APPROVED EQUAL CAPACITY = 600 GPD
CONTROL PANEL - SHALL BE NORWECO SINGLE-ART TMT CONTROL PANEL AS MANUFACTURED BY NORWECO OR APPROVED EQUAL
PRE-TREATMENT UNIT VAULT - SHALL BE A PRE-CASTE CONCRETE VAULT, MANUFACTURED BY BACK RIVER PRECAST, INC. OR APPROVED EQUAL
SEPTIC SYSTEM DATA: (4 - BEDROOM DWELLING)
BASMT. F.F. ELEVATION = 701.5
INVERT 4" SS @ BLDG. ELEV. = 713.18

PRE-TREATMENT UNIT - (VAULT)
FINISH GRADE = ELEV. 705.00
INVERT (IN) = ELEV. 702.73
INVERT (OUT) = ELEV. 702.40

DISTRIBUTION BOX
FINISH GRADE = ELEV. 705.0
INVERT (IN) = ELEV. 702.28
INVERT (OUT) = ELEV. 702.20

INITIAL SYSTEM
TRENCH #1 (T1) GRD ELEV. 705.8
INVERT (IN) = ELEV. 701.8
TOP OF STONE ELEV. 702.47
BOTTOM OF STONE ELEV. 698.5

TRENCH #2 (T2) GRD ELEV. 705.1
INVERT (IN) = ELEV. 701.1
TOP OF STONE ELEV. 700.77
BOTTOM OF STONE ELEV. 699.1

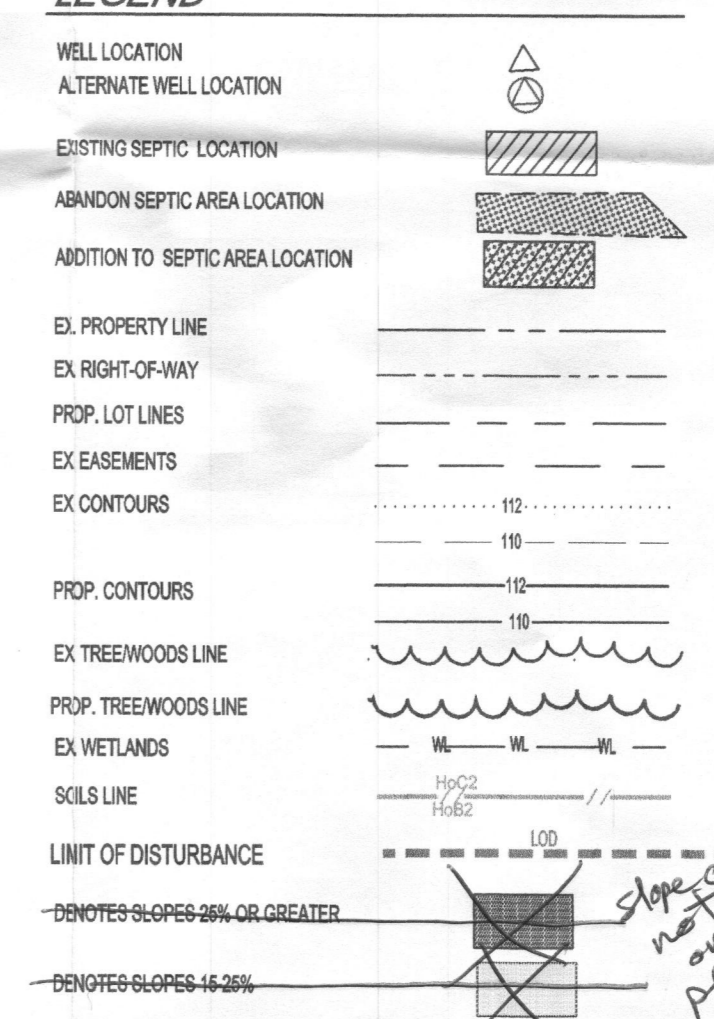
TRENCH #3 (T3) GRD ELEV. 704.5
INVERT (IN) = ELEV. 700.5
TOP OF STONE ELEV. 701.17
BOTTOM OF STONE ELEV. 698.5

TRENCH #4 (T4) GRD ELEV. 703.9
INVERT (IN) = ELEV. 699.9
TOP OF STONE ELEV. 700.57
BOTTOM OF STONE ELEV. 697.9

SITE ANALYSIS

TOTAL AREA SITE	1.0336 ACRES (44,979 SF)
AREA OF WETLANDS AND THEIR BUFFERS	0.0 ACRES (0.0 SF)
AREA OF STREAMS AND THEIR BUFFERS	0.0 ACRES (0.0 SF)
AREA OF FLOODPLAIN AND THEIR BUFFERS	0.0 ACRES (0.0 SF)
AREA OF MODERATE STEEP SLOPES 15% - 24.9%	0.0 ACRES
AREA OF STEEP SLOPES - 25% OR GREATER	0.0 ACRES
AREA OF FOREST	0.0 ACRES (0.0 SF)
AREA OF ERODABLE SOILS	0.0 ACRES (0.0 SF)
AREA DISTURBED	0.2709 ACRES (11801 SF)
AREA TO BE ROOFED	0.0490 ACRES (2135 SF)
AREA TO BE PAVED	0.0446 ACRES (1941 SF)
TOTAL IMPERVIOUS AREA	0.0308 ACRES (14,078 SF)
AREA TO BE VEGETATIVELY STABILIZED	0.1773 ACRES (7,723 SF)
TOTAL VOLUME CUT	425 CY.
TOTAL VOLUME FILL	425 CY.

LEGEND



OWNER:
MELODY WILSON
704 OLD CHASEL DR
BOWIE, MD. 20715
(tel.) 301-717-9349

BUILDER:
CUMBERLAND DEVELOPMENT CUSTOM HOMES
C/O CURTIS CUMBERLAND
2983 DUVALL RD
WOODBINE, MD. 21797
(tel.) 301-252-1122

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DIVISION LAND DEVELOPMENT

CHIEF, DEVELOPMENT ENGINEERING

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

Howard County Health Officer

6/23/2016

PERCOLATION CERTIFICATION

I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

Charles R. Crocken 6-17-16

CHARLES R. CROCKEN, PE, MD. LICENSE REG. NO. 7803 (EXPIRATION DATE 4-23-2017)

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 7803 EXPIRATION DATE 4-23-2017

Charles R. Crocken 6-17-16

CHARLES R. CROCKEN, PE, MD. LICENSE REG. NO. 7803

REVISED PERCOLATION CERTIFICATION PLAN	
NO.	DATE
1	6/15/2017

REVISED PERCOLATION CERTIFICATION PLAN
LOT 16
"KOGAN TRUST PROPERTY"
#1820 FLORENCE RD

SINGLE FAMILY DETACHED
PLAT M.D.R. #22369-71
ZONED RC-DEO

FOURTH ELECTION DISTRICT TAX MAP #R, GRID 23, PARCEL 247
HOWARD COUNTY, MARYLAND

Prepared by:
CHARLES R. CROCKEN AND ASSOCIATES, INC.
922 LEE AVE.
SYKESVILLE, MARYLAND 21157
Tel. (410) 549-2708

SCALE: 1"=30'

DATE: 05/08/16

SHEET 1 OF 1