

ENVIRONMENTAL SITE DESIGN NARRATIVE

1. THERE ARE NO STREAMS, WETLANDS, FLOOD PLAINS OR FORESTED AREAS LOCATED ON THE LOT # 27. THE ON-SITE SEWAGE DISPOSAL AREA HAS BEEN RELOCATED AS FAR TO THE REAR OF THE LOT AS POSSIBLE TO PROVIDE FOR GRADING TO ACHIEVE RUNOFF DISCONNECTS. STORM WATER MANAGEMENT FOR WATER QUALITY IS PROVIDED BY NON-STRUCTURAL RUNOFF REDUCING PRACTICES TO LIMIT THE IMPACT OF THE DEVELOPMENT ON NATURAL RESOURCES AND THE SURROUNDING PROPERTY.
2. GRADING ON SITE IS LIMITED TO ONLY THAT REQUIRED TO ACCOMPLISH DISCONNECTS FOR ROOFTOP RUNOFF WHILE MAINTAINING NATURAL FLOW PATTERNS.
3. IMPERVIOUS AREA WAS HELD TO THE MINIMUM REQUIRED TO ACCOMPLISH THE WORK BY LOCATING THE PROPOSED DWELLING AS CLOSE TO HARDY ROAD AS PRACTICAL BASED UPON THE LOCATION OF EXISTING DWELLINGS ON ADJOINING PROPERTIES.
4. TEMPORARY PERIMETER SEDIMENT CONTROL IN THE FORM OF SUPER SILT FENCE IS PROPOSED IN ORDER TO PROVIDE TEMPORARY SWM VIA RUNOFF RETENTION DURING CONSTRUCTION.
5. ENVIRONMENTAL SITE DESIGN HAS BEEN IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE BY THE USE OF ROOFTOP AND NON-ROOFTOP DISCONNECTS, TO SATISFY WATER QUALITY MANAGEMENT.
6. NO WAIVERS FROM THE SUBDIVISION REGULATIONS AND OR DESIGN MANUAL ARE REQUIRED FOR THE PROJECT AS SHOWN HEREON.
7. LOTS 27, 28 AND 29 ARE BEING DEVELOPED INDEPENDENTLY WITH LOT 29 BEING THE FIRST LOT TO BE DEVELOPED AND LOT 27 THE SECOND.

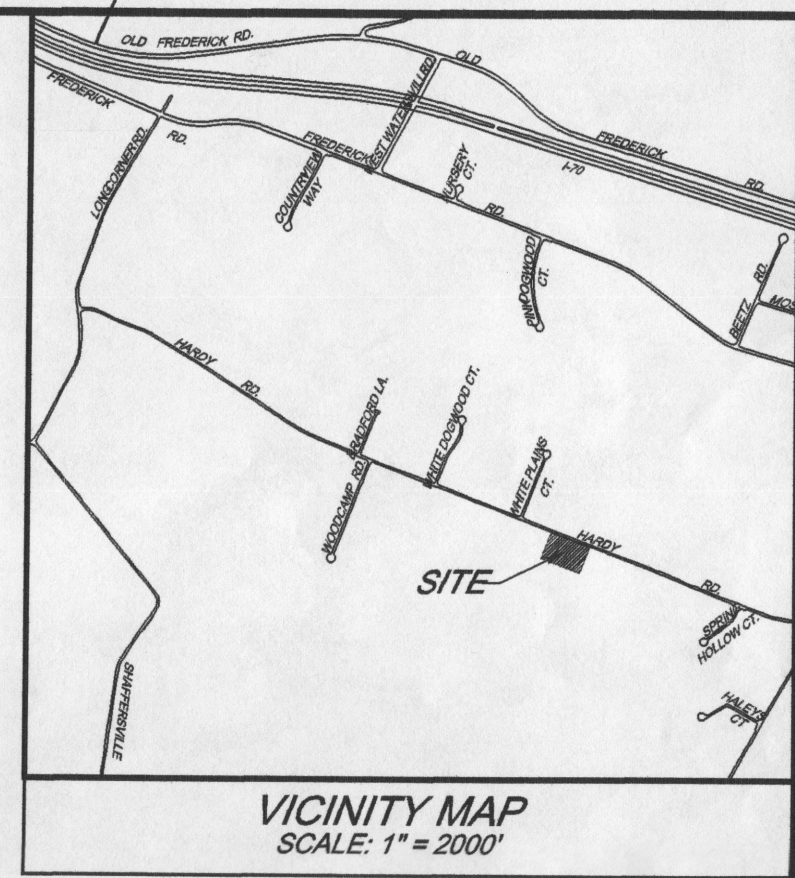
SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	K-VALUE	HYDRO GROUP
Ga	Glenald loam, 0 to 3 percent slopes	B	0.20	+	NOT HYDRO
Ggb	Glenald loam, 3 to 8 percent slopes	B	0.20	-	NOT HYDRO

REQUIRED SEQUENCE OF CONSTRUCTION (SINGLE FAMILY LOT)

1. OBTAIN GRADING PERMIT (1-DAY)
2. CLEAR AND GRUB FOR INSTALLATION OF TEMPORARY SEDIMENT CONTROL MEASURES, SILT FENCE AND STONE CONSTRUCTION ENTRANCE. (12 DAY)
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES (1/2 DAY)
4. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR CLEAR AND GRUB SITE FOR CONSTRUCTION OF DWELLING, DRIVEWAY AND WALKS. (1 DAY)
5. GRADE SITE AND CONSTRUCT DWELLING, DRIVEWAY AND WALKS PER APPROVED PLAN (12 - WEEKS)
6. STABILIZE ALL DISTURBED AREAS WITH SEED AND MULCH PER SCS STANDARDS. (2 DAYS)
7. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL TEMPORARY SEDIMENT CONTROL MEASURES AND STABILIZE ALL DISTURBED AREAS PER SCS STANDARDS. (2 DAYS)

LEGEND-SWM- MDE DESIGNATION

DOWN SLOPE — N-1 DENOTES ROOF-TOP RUNOFF DISCONNECT



GENERAL NOTES

1. OWNERS: WILLIS LAMBERT CISSSEL, JR. MARJORIE S. CISSSEL, ETAL. c/o CURTIS CUMBERLAND CUMBERLAND DEVELOPMENT CORP. 16391 MULLINIX RD. WOODBINE, MD. 21787
- DEED REFERENCE: LIBER 890, FOLIO 675 DATE: JUNE 19, 1979 GRANTOR: A. ROBY HARDY & RAYMOND E. HARDY
- TAX MAP 007, GRID 08, PARCEL 528
3. THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF 'SPRING HOLLOW' PLAT-M.R.D. # 13773
4. WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
5. THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #4402700100 ZONE X
6. TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD88, CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
7. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
8. EXISTING WELLS HO-85-2382, HO-85-2382, HO-85-2382, HO-0158, HO-85-1934 AND THE WELL WITH NO TAG ON ADJOINING PROPERTY 17270 HARDY RD. SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
9. SUBJECT PROPERTY IS ZONED RC-DEO
10. THE SUBJECT PROPERTY SHOWN HEREON IS NOT SUBJECT TO ANY PRIOR ZONING CASES VARIANCES OR SPECIAL EXCEPTIONS. PROPERTY HISTORY S-98-01, P-98-26, & F-98-30
11. STORMWATER MANAGEMENT FOR THE SUBJECT PROPERTY SHOWN HEREON HAS BEEN SATISFIED BY TAKING CREDIT FOR DISCONNECTED ROOF TOP AND NON-ROOF TOP RUNOFF IN ACCORDANCE WITH MDE STORM WATER DESIGN MANUAL VOL. 1, SEC. 3.1 AND MDE ENVIRONMENTAL SITE DESIGN (ESD), THE HOWARD CO. DESIGN MANUAL VOL. 1, CHAPTER 5 REVISED AND THE HOWARD CO. DESIGN ESD, ON SMALL PROJECTS.

SITE ANALYSIS

TOTAL AREA SITE 40,010 SF
 AREA DISTURBED 19840 SF
 AREA TO BE ROOFED 4,080 SF (11% IMPERVIOUS)
 AREA TO BE VEGETATIVELY STABILIZED 15820 SF
 TOTAL VOLUME CUT 513 CY.
 TOTAL VOLUME FILL 513 CY.

HEALTH DEPARTMENT NOTES

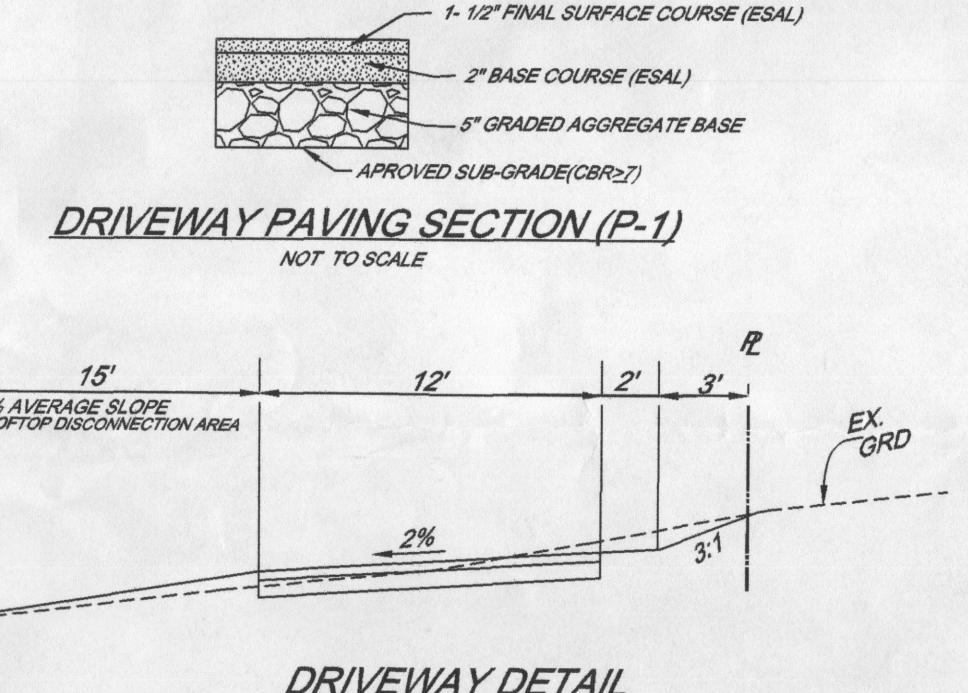
1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND AREA REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
2. THE AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQ-FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF 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.
3. EXISTING WELLS HO-85-2382, HO-85-2382, HO-85-2382, HO-0158, HO-85-1934 AND THE WELL WITH NO TAG ON ADJOINING PROPERTY 17270 HARDY RD. SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
4. 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
5. THE NEAREST WATER INTAKE STRUCTURE IS FOUR MILES AWAY.

SEPTIC SYSTEM DATA

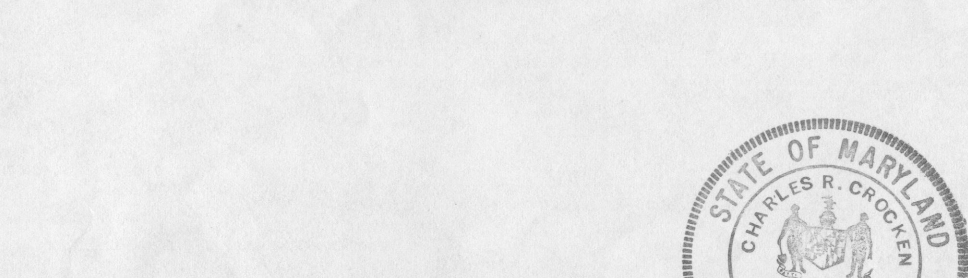
INV. AT HOUSE	711.75
SEPTIC TANK (1500 gal)	
EX. GRADE	715.0
FIN. GRADE	714.5
INV. IN	711.55
INV. OUT	711.39
DISTRIBUTION BOX	
EX. GRADE	715.00
FIN. GRADE	715.00
INV. IN	710.89
INV. OUT	710.73

THE NUMBER OF TRENCHES, THEIR LENGTH, DEPTH, AND ORIENTATION TO BE DETERMINED BY HEALTH DEPARTMENT.
 ***SEPTIC SYSTEM MAY REQUIRE PUMP

DRIVEWAY PAVING SECTION (P-1)



DRIVEWAY DETAIL



LEGEND

- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- PROP. CONTOURS
- EX. TREE WOODS LINE
- SOILS LINE
- LIMIT OF DISTURBANCE
- DENOTES SLOPES 25% OR GREATER
- DENOTES SLOPES 5% - 25%
- TEST PIT
- TEST BORING
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- SILT FENCE

OWNER/DEVELOPER:
 CUMBERLAND DEVELOPMENT CORP.
 C/O CURTIS CUMBERLAND
 16391 MULLINIX RD.
 WOODBINE MD 21787

NON-SDP RESIDENTIAL PLOT PLAN
 LOT 27
 "SPRING HOLLOW"
 #17287 HARDY ROAD
 SINGLE FAMILY DETACHED
 PLAT M.D.R. #13773
 ZONED RC-DEO

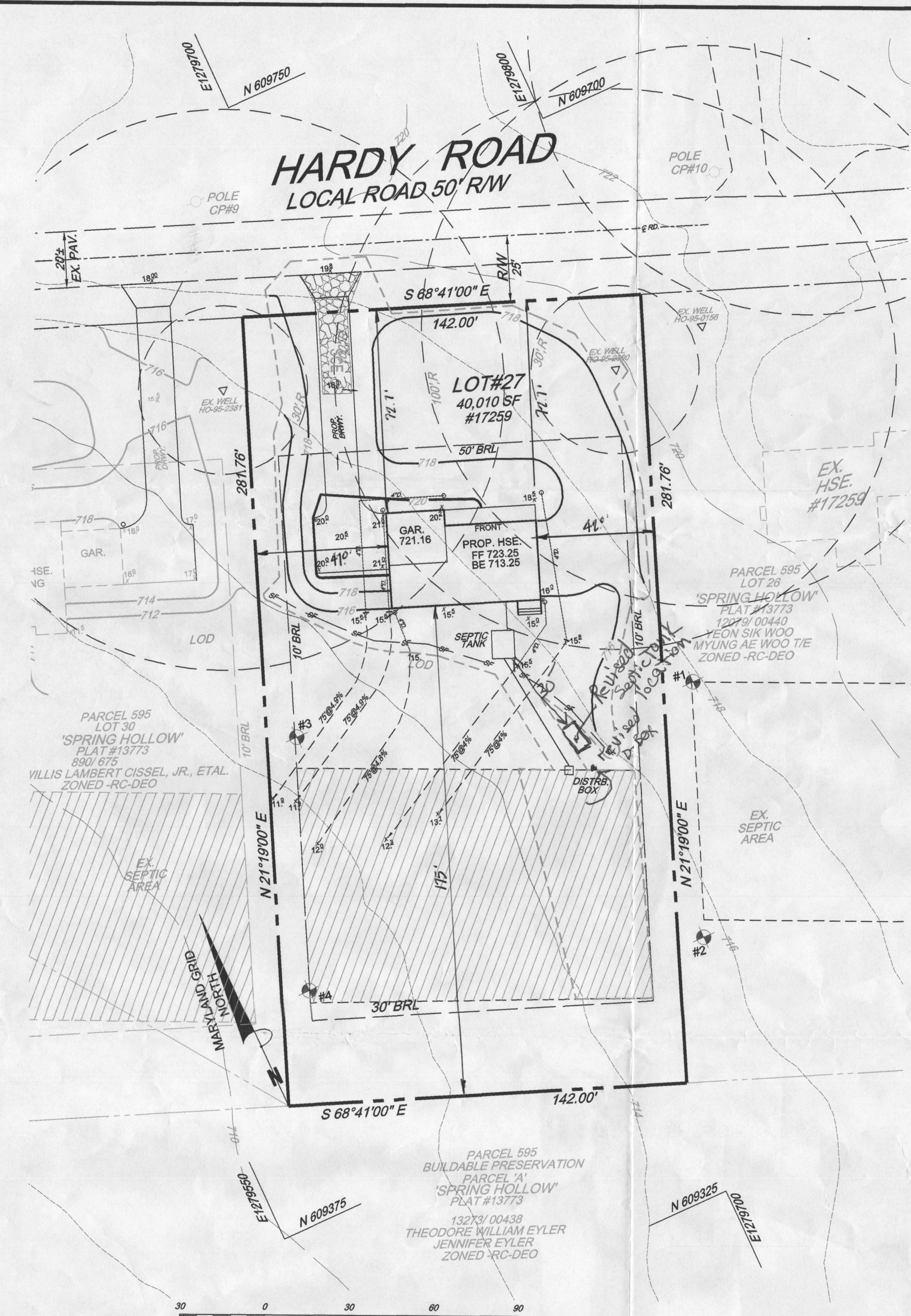
FOURTH ELECTION DISTRICT TAX MAP #07, GRID 08, PARCEL 528
 HOWARD COUNTY, MARYLAND

Prepared by:
CHARLES R. CROCKEN AND ASSOCIATES, INC.
 902 LEE AVE.
 SYKESVILLE, MARYLAND 21157
 Tel. (410) 549-2708
 Fax. (410) 549-9063

SCALE: 1" = 30' DATE: 11/07/13 SHEET 1 OF 1

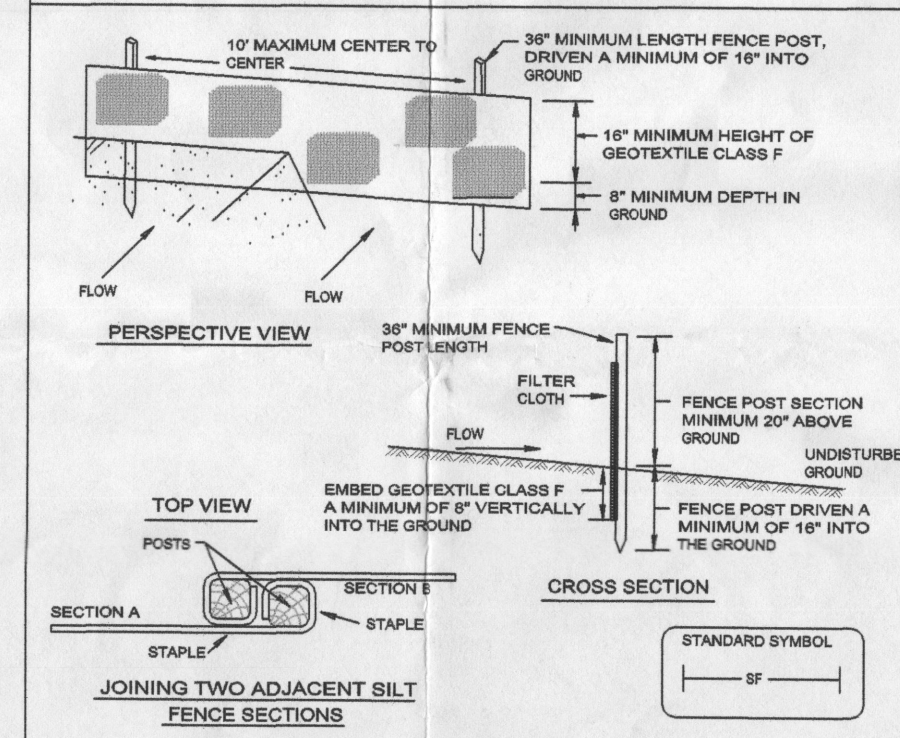
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 7803 EXPIRATION DATE 4-22-2015

Charles R. Crocken 11-19-13
 CHARLES R. CROCKEN, PE, MD. LICENSE REG. NO. 7803 DATE

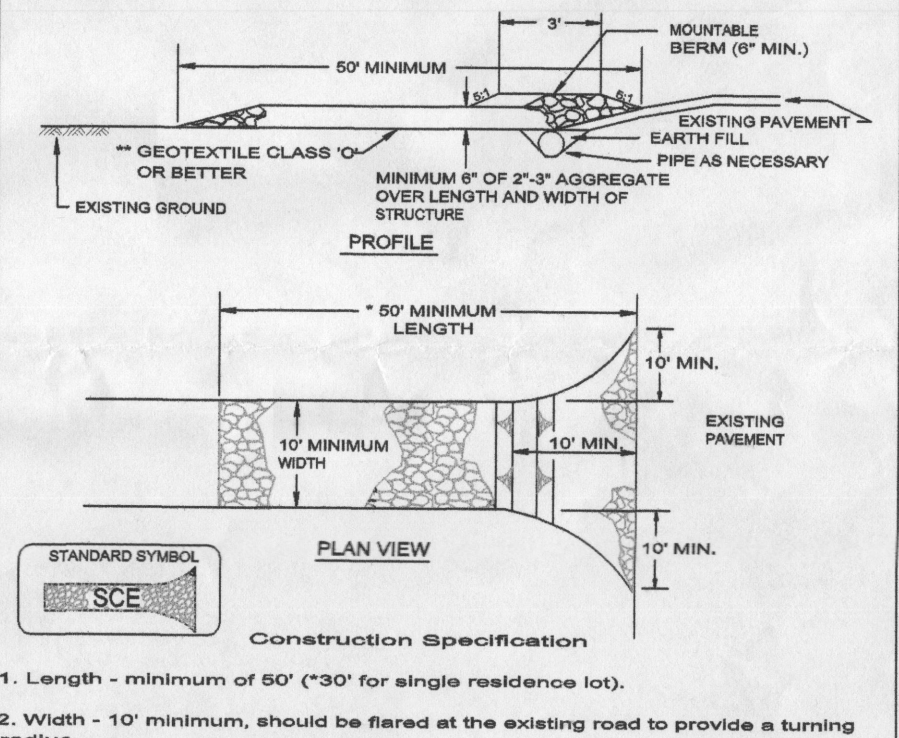


*Plan OK with revisions
 Install per Permit Specs
 reb 11/13*

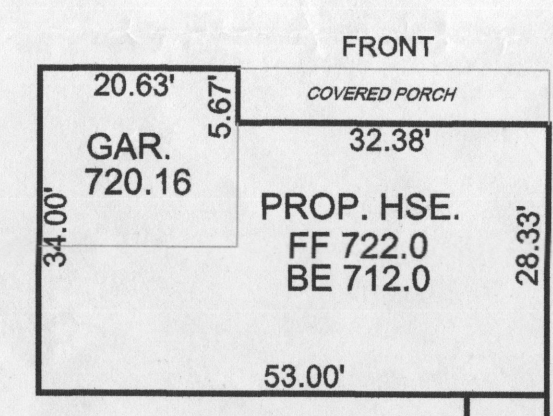
DETAIL 22 - SILT FENCE



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Construction Specifications**
1. Length - minimum of 50' (*30' for single residence lot).
 2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. *The plan approval authority may not require single family residences to use geotextile.
 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 6:1 slopes and a minimum of 6" of stone over the pipe. Pipe has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 6. Location - A stabilized construction entrance shall be located at every spot where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



HOUSE MODEL

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E- 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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ENVIRONMENTAL SITE DESIGN NARRATIVE

1. THERE ARE NO STREAMS, WETLANDS, FLOOD PLAINS OR FORESTED AREAS LOCATED ON THE LOT #28. THE ON-SITE SEWAGE DISPOSAL AREA HAS BEEN RELOCATED AS FAR TO THE REAR OF THE LOT AS POSSIBLE TO PROVIDE FOR GRADING TO ACHIEVE RUNOFF DISCONNECTS. STORM WATER MANAGEMENT FOR WATER QUALITY IS PROVIDED BY NON-STRUCTURAL RUNOFF REDUCING PRACTICES TO LIMIT THE IMPACT OF THE DEVELOPMENT ON NATURAL RESOURCES AND THE SURROUNDING PROPERTY.
2. GRADING ON SITE IS LIMITED TO ONLY THAT REQUIRED TO ACCOMPLISH DISCONNECTS FOR ROOFTOP RUNOFF WHILE MAINTAINING NATURAL FLOW PATTERNS.
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6. NO WAIVERS FROM THE SUBDIVISION REGULATIONS AND OR DESIGN MANUAL ARE REQUIRED FOR THE PROJECT AS SHOWN HEREON.

SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	H-VALUE	HYDRIC GROUP
GgA	Glenelg loam, 0 to 5 percent slopes	B	0.20	+	NOT HYDRIC
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.20	-	NOT HYDRIC

REQUIRED SEQUENCE OF CONSTRUCTION (SINGLE FAMILY LOT)

1. OBTAIN GRADING PERMIT (1 DAY)
2. CLEAR AND GRUB FOR INSTALLATION OF TEMPORARY SEDIMENT CONTROL MEASURES, SILT FENCE AND STONE CONSTRUCTION ENTRANCE. (12 DAY)
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES (12 DAY)
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LEGEND-SWM- MDE DESIGNATION

DOWN SLOPE - N-1 DENOTES ROOF-TOP RUNOFF DISCONNECT

VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. OWNERS: WILLIS LAMBERT CISSEL, JR. MARJORIE S. CISSEL, ETAL. c/o: CURTIS CUMBERLAND CUMBERLAND DEVELOPMENT CORP. 16391 MULLINX RD. WOODBINE, MD. 21797
DEED REFERENCE: LIBER 890, FOLIO 875
DATE: JUNE 16, 1979
GRANTOR: A. ROBY HARDY & RAYMOND E. HARDY
2. TAX MAP 007, GRID 08, PARCEL 528
3. THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF "SPRING HOLLOW" PLAT M.D.R. # 13773
4. WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
5. THERE IS NO 100 YEAR FLOOD PLAN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #
6. TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83. CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
7. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT. OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
8. EXISTING WELLS HO-85-2380, HO-85-2382, HO-85-2381, HO-85-2380, HO-0156, HO-85-1924 AND THE WELL WITH NO TAG ON ADJOINING PROPERTY 17270 HARDY RD. SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
9. SUBJECT PROPERTY IS ZONED RC-DEO
10. THE SUBJECT PROPERTY SHOWN HEREON IS NOT SUBJECT TO ANY PRIOR ZONING CASES VARIANCES OR SPECIAL EXCEPTIONS. PROPERTY HISTORY: 5-88-01, P-88-26, & F-88-30
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SITE ANALYSIS

TOTAL AREA SITE	40,010 SF
AREA DISTURBED	18,358 SF
TOTAL IMPERVIOUS AREA	4,088 SF
AREA TO BE VEGETATIVELY STABILIZED	14,927 SF
TOTAL VOLUME CUT	252 CY.
TOTAL VOLUME FILL	328 CY.

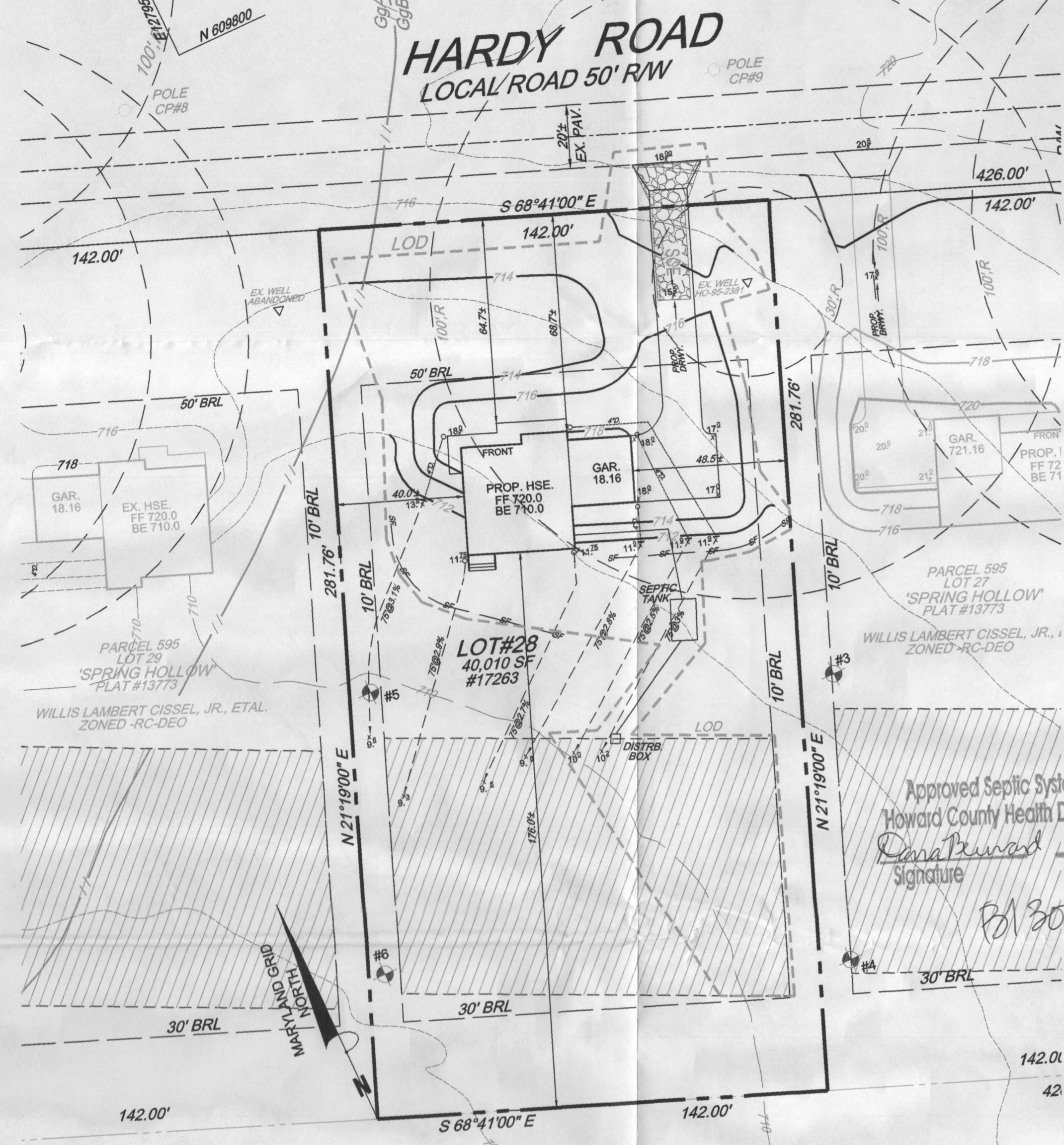
SEPTIC SYSTEM DATA

INV. AT SYSTEM	708.5
SEPTIC TANK (1500 gal)	
EX. GRADE	711.5
FIN. GRADE	711.5
INV. IN	708.3
INV. OUT	708.14
DISTRIBUTION BOX	
EX. GRADE	710.5
FIN. GRADE	710.5
INV. IN	707.26
INV. OUT	707.10

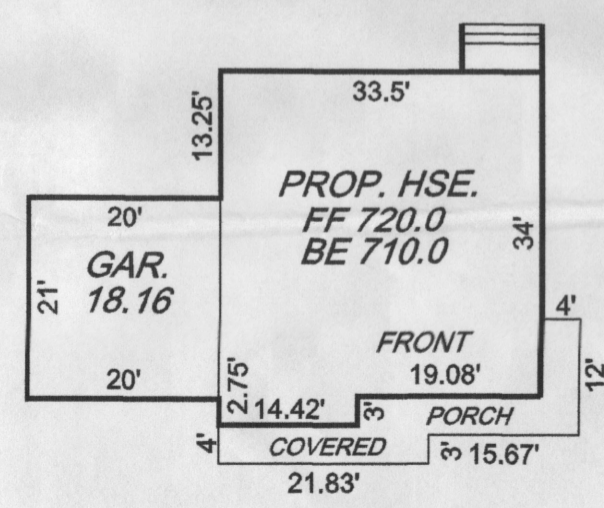
THE NUMBER OF TRENCHES, THEIR LENGTH, DEPTH, AND ORIENTATION TO BE DETERMINED BY HEALTH DEPARTMENT.

HEALTH DEPARTMENT NOTES

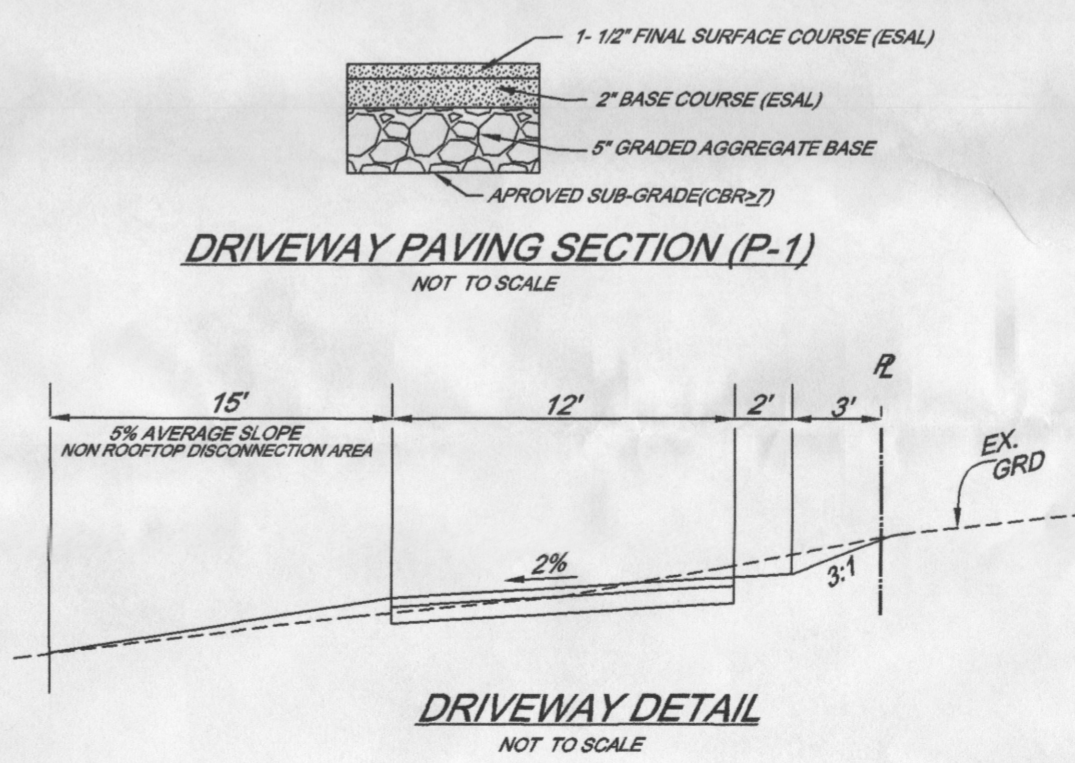
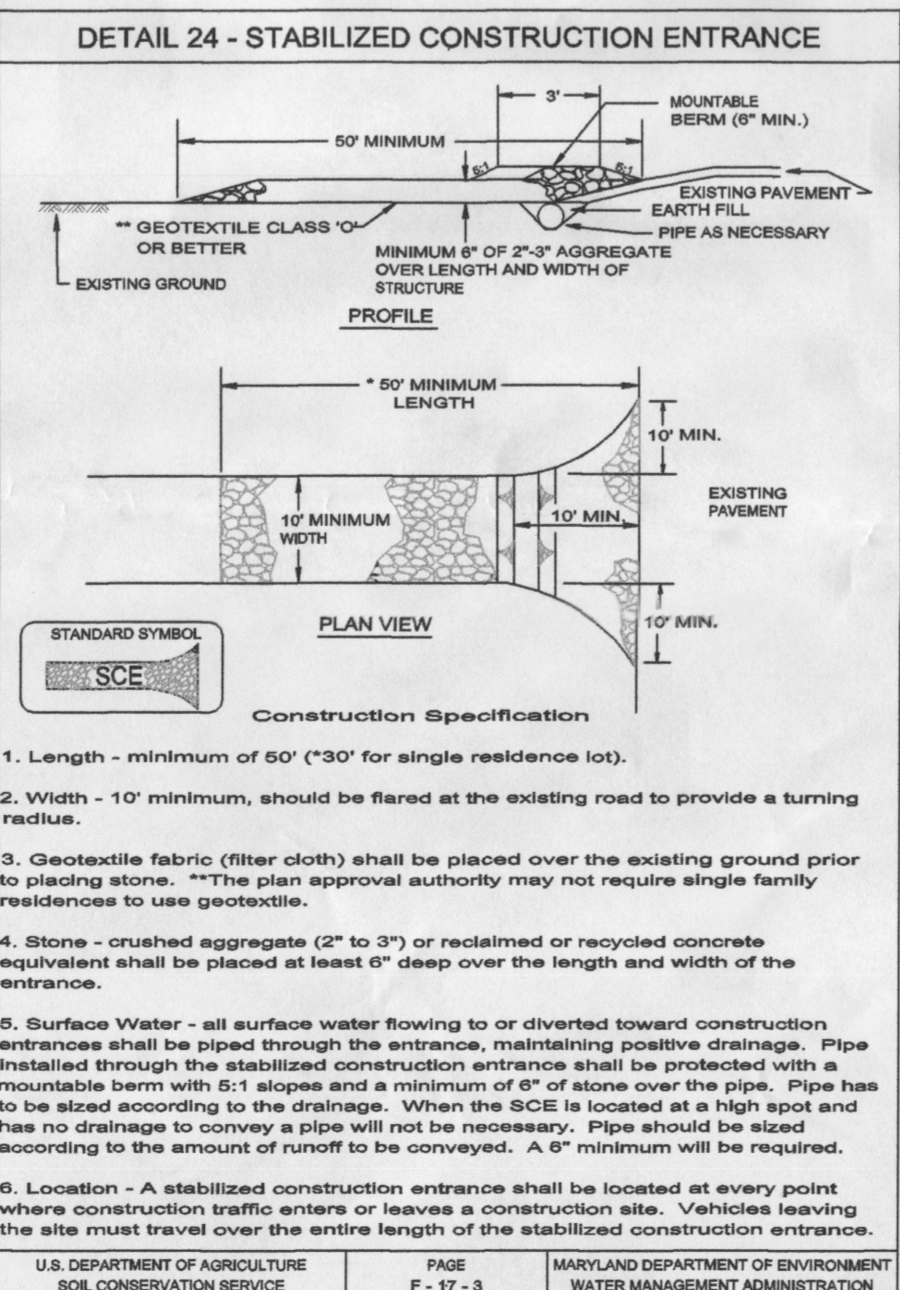
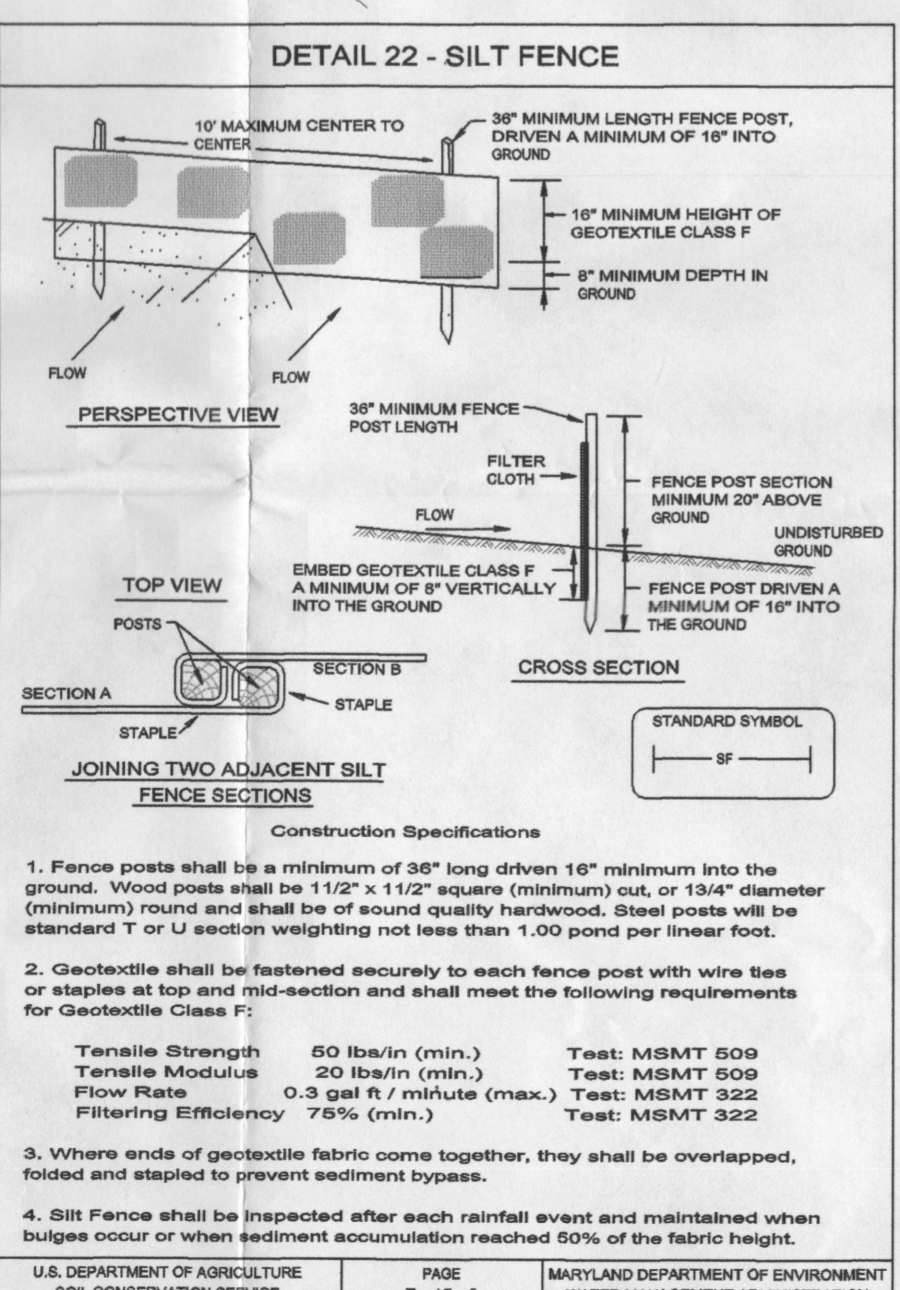
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4. THERE ARE NO EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 1000' OF THE LOT LINES SHOWN HEREON UNLESS NOTED OTHERWISE.
 ○ DENOTES "PASSED" PERCOLATION TEST
 ⊕ DENOTES "FAILED" PERCOLATION TEST
5. THE NEAREST WATER INTAKE STRUCTURE IS FOUR MILES +/- AWAY.



Approved Septic System Plan
Howard County Health Department
Date: 1-18-14
Signature: [Signature]
B/L 300 4528



HOUSE MODEL
SCALE: 1"=20'



LEGEND

EX. PROPERTY LINE	---
EX. RIGHT-OF-WAY	---
PROP. LOT LINES	---
EX. EASEMENTS	---
EX. CONTOURS	---
PROP. CONTOURS	---
EX. TREEWOODS LINE	---
SOILS LINE	---
LIMIT OF DISTURBANCE	---
DENOTES SLOPES 2% OR GREATER	---
DENOTES SLOPES 15% - 25%	---
TEST PIT	---
TEST BORING	---
STABILIZED CONSTRUCTION ENTRANCE	---
SUPER SILT FENCE	---
SILT FENCE	---

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 4-22-2015
 [Signature]
 CHARLES R. CROCKEN, PE, MD, LICENSE REG. NO. 7803
 DATE: 1-14-14

DEVELOPER:
CUMBERLAND DEVELOPMENT CORP.
C/O CURTIS CUMBERLAND
16391 MULLINX RD.
WOODBINE MD 21797

ENVIRONMENTAL CONCEPT PLAN
NON-SDP RESIDENTIAL PLOT PLAN
LOT 28
"SPRING HOLLOW"
#17287 HARDY ROAD
SINGLE FAMILY DETACHED
PLAT M.D.R. #13773
ZONED RC-DEO
FOURTH ELECTION DISTRICT TAX MAP #07, GRID 08, PARCEL 528
HOWARD COUNTY, MARYLAND

Prepared by:
CHARLES R. CROCKEN AND ASSOCIATES, INC.
902 LEE AVE.
SYKESVILLE, MARYLAND 21157
Tel. (410) 548-2708
Fax. (410) 548-9063

SCALE: 1"=30' DATE: 11/11/13 SHEET 1 OF 1

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS
HOWARD COUNTY HEALTH OFFICER DATE

ENVIRONMENTAL SITE DESIGN NARRATIVE

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SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K VALUE	K _{AVG} VALUE	HYDRO GROUP
G _{GA}	Glaciated loam, 0 to 3 percent slopes	B	0.20	+	NOT HYDROIC
G _{GB}	Glaciated loam, 3 to 8 percent slopes	B	0.20	-	NOT HYDROIC

REQUIRED SEQUENCE OF CONSTRUCTION (SINGLE FAMILY LOT)

1. OBTAIN GRADING PERMIT (1-DAY)
2. CLEAR AND GRUB FOR INSTALLATION OF TEMPORARY SEDIMENT CONTROL MEASURES, SILT FENCE AND STONE CONSTRUCTION ENTRANCE. (1/2 DAY)
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES (1/2 DAY)
4. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR CLEAR AND GRUB SITE FOR CONSTRUCTION OF DWELLING, DRIVEWAY AND WALKS. (1 DAY)
5. GRADE SITE AND CONSTRUCT DWELLING, DRIVEWAY AND WALKS PER APPROVED PLAN (12 - WEEKS)
6. STABILIZE ALL DISTURBED AREAS WITH SEED AND MULCH PER SCS STANDARDS. (2 DAYS)
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LEGEND-SWM- MDE DESIGNATION

DOWN SLOPE N-1 DENOTES ROOF-TOP RUNOFF DISCONNECT

VICINITY MAP
SCALE: 1" = 200'

GENERAL NOTES

1. OWNERS: WILLIS LAMBERT CISSEL, JR., MARJORIE S. CISSEL, ETAL
c/o CURTIS CUMBERLAND CUMBERLAND DEVELOPMENT CORP.
16391 MULLINIX RD.
WOODBINE, MD. 21797

DEED REFERENCE: LIBER 890, FOLIO 675
DATE: JUNE 19, 1978
GRANTOR: A. ROBY HARDY & RAYMOND E. HARDY
2. TAX MAP 007, GRID 08, PARCEL 528
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6. TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83. CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
7. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
8. EXISTING WELLS HO-95-2380, HO-95-2382, HO-95-2381, HO-95-2380, HO-01-98, HO-95-1594 AND THE WELL WITH NO TAG ON ADJOINING PROPERTY 17270 HARDY RD. SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
9. SUBJECT PROPERTY IS ZONED RC-DEO
10. THE SUBJECT PROPERTY SHOWN HEREON IS NOT SUBJECT TO ANY PRIOR ZONING CASES, VARIANCES OR SPECIAL EXCEPTIONS. PROPERTY HISTORY 5-98-01, P-98-26, & F-99-30
11. STORMWATER MANAGEMENT FOR THE SUBJECT PROPERTY SHOWN HEREON HAS BEEN SATISFIED BY TAKING CREDIT FOR DISCONNECTED ROOF TOP AND NON-ROOF TOP RUNOFF IN ACCORDANCE WITH MDE STORM WATER DESIGN MANUAL VOL. 1, SEC. 5.1 AND MDE ENVIRONMENTAL SITE DESIGN (ESD), THE HOWARD CO. DESIGN MANUAL VOL. 1, CHAPTER 5 REVISED AND THE HOWARD CO. DESIGN ESD, ON SMALL PROJECTS.

SITE ANALYSIS

TOTAL AREA SITE 40,010 SF
 AREA DISTURBED 16,835 SF
 TOTAL IMPERVIOUS AREA 4,008 SF
 AREA TO BE NEGATIVELY STABILIZED 14,327 SF
 TOTAL VOLUME CUT 252 CY.
 TOTAL VOLUME FILL 328 CY.

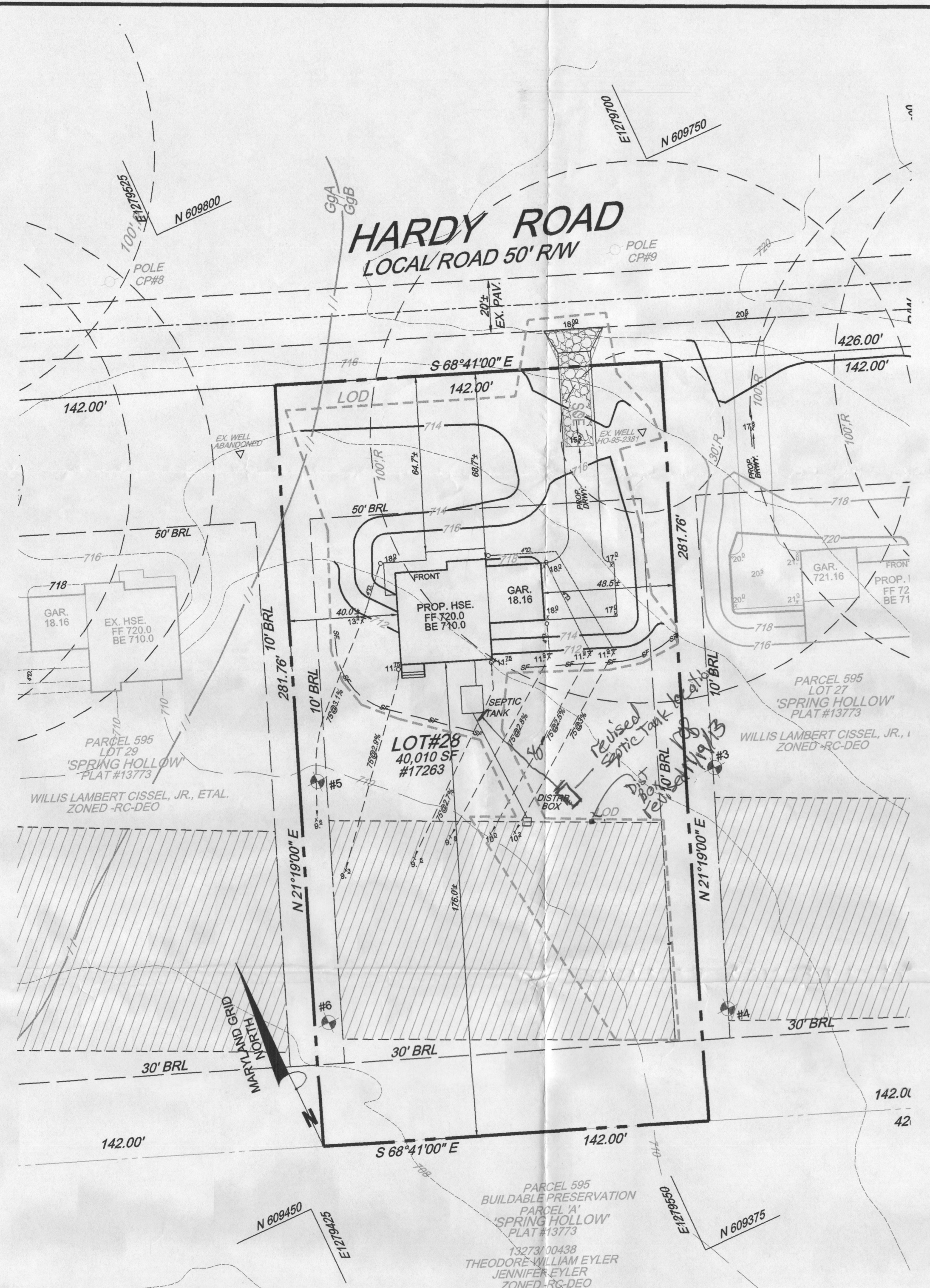
SEPTIC SYSTEM DATA

INV. AT HOUSE	708.5
SEPTIC TANK (1500 gal)	
EX. GRADE	711.5
FIN. GRADE	711.5
INV. IN	708.3
INV. OUT	708.14
DISTRIBUTION BOX	
EX. GRADE	710.5
FIN. GRADE	710.5
INV. IN	707.28
INV. OUT	707.10

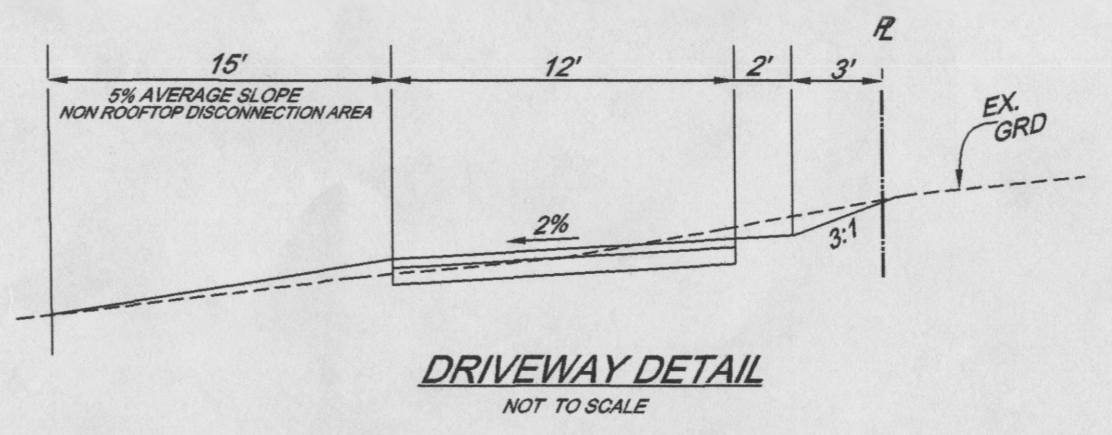
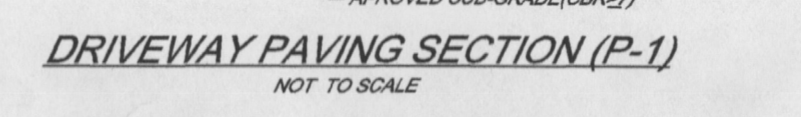
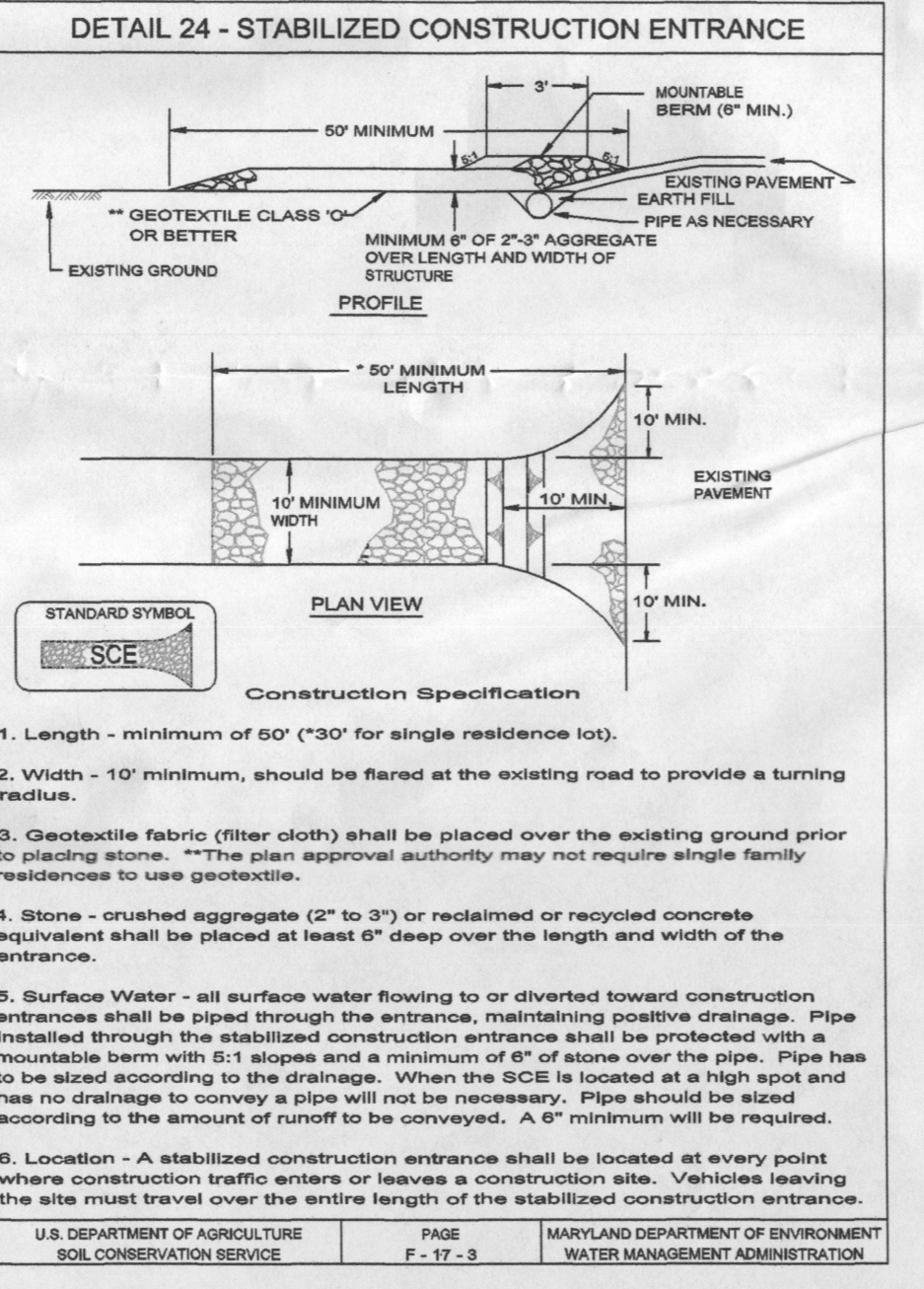
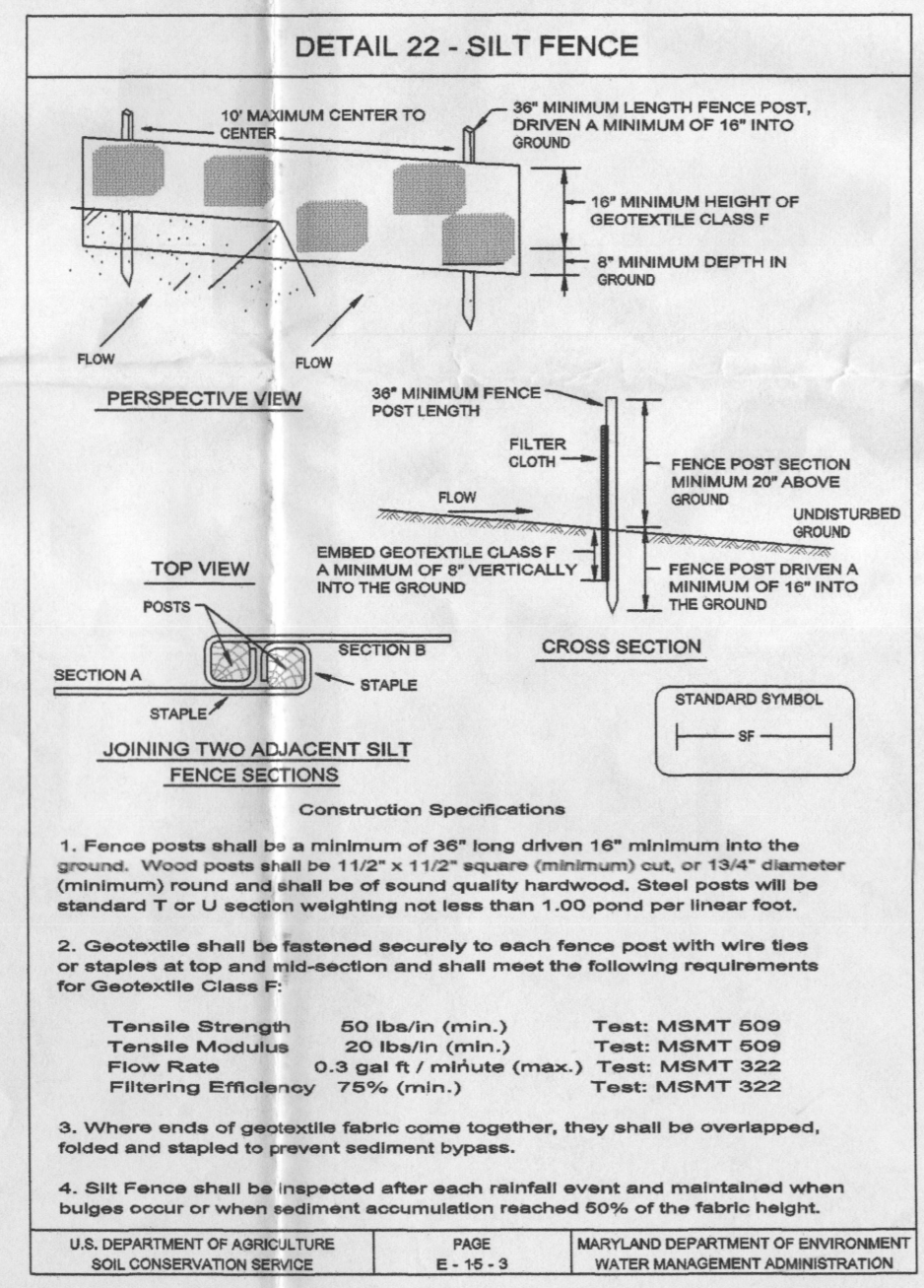
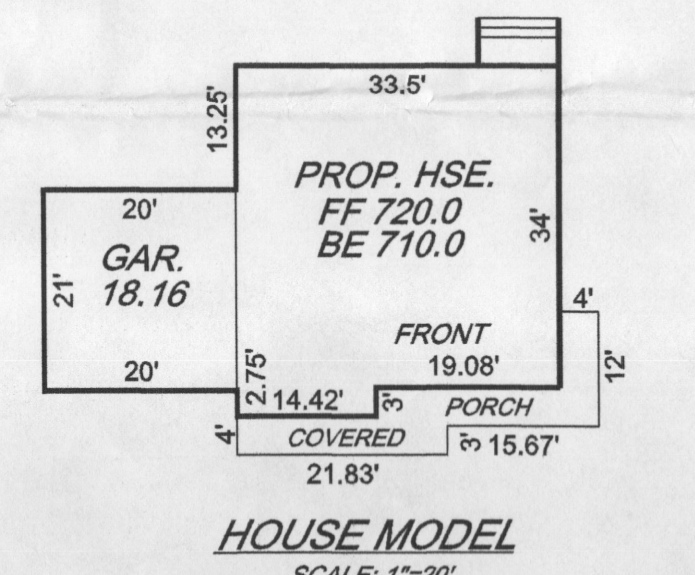
THE NUMBER OF TRENCHES, THEIR LENGTH, DEPTH, AND ORIENTATION TO BE DETERMINED BY HEALTH DEPARTMENT.

HEALTH DEPARTMENT NOTES

1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND AREA REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
2. 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.
3. EXISTING WELLS HO-95-2380, HO-95-2382, HO-95-2381, HO-95-2380, HO-01-98, HO-95-1594 AND THE WELL WITH NO TAG ON ADJOINING PROPERTY 17270 HARDY RD. SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
4. 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
5. THE NEAREST WATER INTAKE STRUCTURE IS FOUR MILES+ AWAY.



*Plan OK,
Install per specifications*



LEGEND

EX. PROPERTY LINE	---
EX. RIGHT-OF-WAY	---
PROP. LOT LINES	---
EX. EASEMENTS	---
EX. CONTOURS	---
PROP. CONTOURS	---
EX. TREEWOODS LINE	---
SOILS LINE	---
LIMIT OF DISTURBANCE	---
DENOTES SLOPES 25% OR GREATER	---
DENOTES SLOPES 15% - 25%	---
TEST PIT	---
TEST BORING	---
STABILIZED CONSTRUCTION ENTRANCE	---
SUPER SILT FENCE	---
SILT FENCE	---

11-9-13

DEVELOPER:
 CUMBERLAND DEVELOPMENT CORP.
 C/O CURTIS CUMBERLAND
 16391 MULLINIX RD.
 WOODBINE MD 21797

ENVIRONMENTAL CONCEPT PLAN
NON-SDP RESIDENTIAL PLOT PLAN
 LOT 28
"SPRING HOLLOW"
 #17287 HARDY ROAD
 SINGLE FAMILY DETACHED
 PLAT M.D.R. #13773
 ZONED RC-DEO
 TAX MAP #07, GRID 08, PARCEL 528
 FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

Prepared by:
CHARLES R. CROCKEN AND ASSOCIATES, INC.
 902 LEE AVE.
 SYKESVILLE, MARYLAND 21157
 Tel. (410) 549-2708
 Fax. (410) 549-9063

SCALE: 1"=30' DATE: 11/11/13 SHEET 1 OF 1

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH OFFICER _____ DATE _____