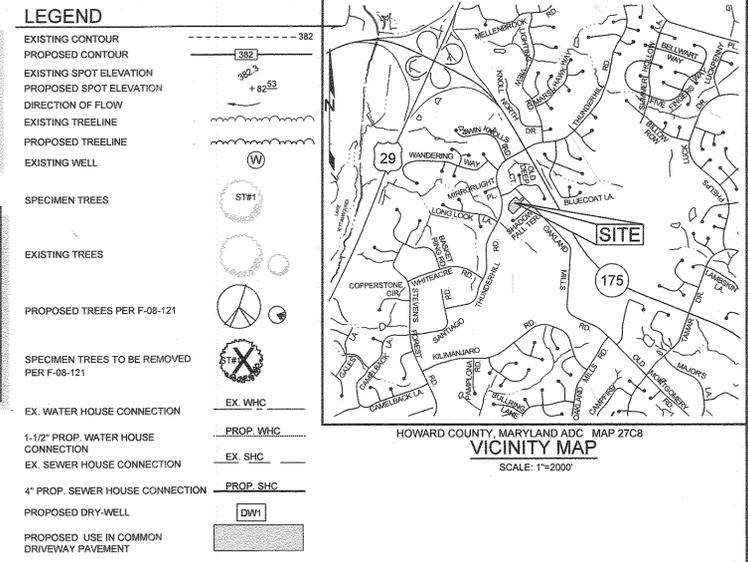


CLEAN-OUT CHART

	INV. IN	INV. OUT	TOP ELEVATION
C/O 1	392.41	392.31	402.50
C/O 2	392.77	392.67	402.90
C/O 3	392.99	392.89	402.98
C/O 4	392.60	392.50	401.50

SITE ANALYSIS DATA CHART

TOTAL PROJECT AREA	AREA OF SUBMISSION	DISTURBED AREA	PRESENT ZONING
1.3652 AC ±	1.3652 AC ±	0.6250 AC ±	R-12
PROPOSED USE	FLOOR SPACE PER USE	TOTAL UNITS ALLOWED	TOTAL UNITS PROPOSED
RESIDENTIAL	N/A	N/A	N/A
MAX. # EMPLOYEES/TENANTS	PARKING SPACES REQ.	PARKING SPACES PROV.	HC SPACES PROVIDED
N/A	8	12	N/A
OPEN SPACE REQUIRED	OPEN SPACE PROVIDED	REC. O.S. REQUIRED	REC. O.S. PROVIDED
N/A	N/A	N/A	N/A
BUILDING COVERAGE	FLOOR AREA RATIO	DPZ FILE REFERENCES	
5.073 SF ±	8.5% ±	F-08-121, F-85-25, F-50-133, SDP 94-74	



BENCHMARKS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
30HA	566,030.633	1,357,889.542	387.040	ON THE MEDIAN, AT THE INTERSECTION OF RT. 175 AND WEST OF THUNDER HILL RD.
35BC	563,264.1031	1,359,585.7446	410.028	APPROX. 1600' EAST OF THUNDER HILL RD.

SEWER HOUSE CONNECTION

LOT NUMBER	EX. INVERT AT EASEMENT	INVERT AT PROP. BUILDING
5	392.31	392.83
6	392.89	393.95
7	392.50	392.90

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION	PARCEL #			
MILLS HAVEN	NA	2			
RECORDATION REF. #	GRID #	ZONING	TAX MAP #	ELECT. DIS.	CENSUS TRACT
23523-23525	4	R-12	36	6TH	0606.03
WATER ZONE	TEST GRADIENT				
550	700				

PAVING SECTIONS

SEC. NO.	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)	3 TO <5>	5 TO <7>	7 TO <10>	10 TO <15>	15 TO <20>	20 TO <30>	30 TO <45>	45 TO <75>	75 TO <100>
P-1	PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE AISLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY	PAVEMENT MATERIAL (INCHES)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		HMA SUPERPAVE FINAL SURFACE 8.5 MM, PG 64-22, LEVEL 1 (ESAL)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		HMA SUPERPAVE INTERMEDIATE SURFACE (NA)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		HMA SUPERPAVE BASE 19.0 MM, PG 64-22, LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	3.0	2.5			
	GRADED AGGREGATE BASE (GAB)	8.5	7.0	5.0	4.0	4.0	4.0				

NOTES:

- HEAVY TRUCKS ARE DEFINED AS THOSE WITH SIX (6) WHEELS OR MORE INCLUDING GARAGE TRUCKS.
- HMA SUPERPAVE LAYERS SHALL BE PLACED IN APPROPRIATE COMPACTED LIFT THICKNESS: 19.0 MM BASE (2" MIN TO 4" MAX), 12.5 MM SURFACE (1.5" MIN TO 3.0" MAX), AND 8.5 MM SURFACE (1" MIN TO 2" MAX).
- GRADED AGGREGATE BASE (GAB) TO BE PLACED AND COMPACTED IN 6" MAX COMPACTED THICKNESS LAYERS.
- THE INTERMEDIATE SURFACE COURSE LAYER MUST BE PLACED WITHIN 2 WEEKS OF PLACEMENT OF BASE COURSE, AND IS REQUIRED PRIOR TO SUBSTANTIAL COMPLETION INSPECTION AND BOND REDUCTION.
- IN LIEU OF PLACING THE INTERMEDIATE SURFACE COURSE LAYER FOR COMMERCIAL/INDUSTRIAL ENTRANCE AREAS WITHIN THE COUNTY RIGHT-OF-WAY WHERE AUXILIARY LANES ARE NOT REQUIRED, THE THICKNESS OF THE INTERMEDIATE PAVEMENT LAYER CAN BE ADDED TO THE REQUIRED THICKNESS OF THE BASE ASPHALT LAYER.
- THE CONSTRUCTION DRAWINGS SHALL SHOW THE PAVING SECTION, ROAD CLASSIFICATION AND CBR VALUE FOR EACH ROADWAY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

12-10-15

12-14-15

12-16-15

CHIEF, DEVELOPMENT ENGINEERING DIVISION

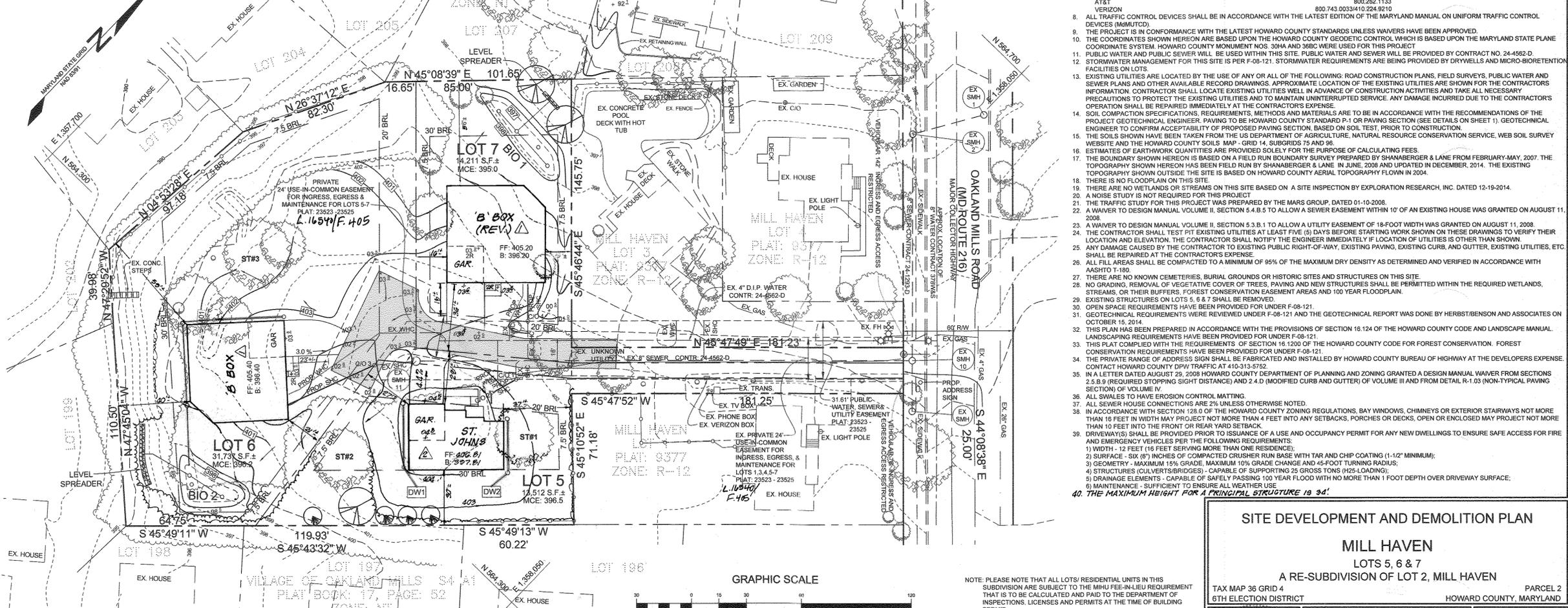
CHIEF, DIVISION OF LAND DEVELOPMENT

DIRECTOR

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER

HOWARD COUNTY HEALTH DEPARTMENT



PLAN VIEW
SCALE: 1"=30'

REVISIONS

NO.	DESCRIPTION	DATE
2	REV. HOUSE & CONTOURS, LOT 6	11/9/16
1	UPDATE GENERIC BOX, GRADING, AND	4/16/16
	UPDATE NUMBER OF SHEETS	

SHEET INDEX

SHEET NO.	DESCRIPTION
1	SITE DEVELOPMENT AND DEMOLITION PLAN
2	STORMWATER MANAGEMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN
3	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
4	HOUSE MODEL TEMPLATES

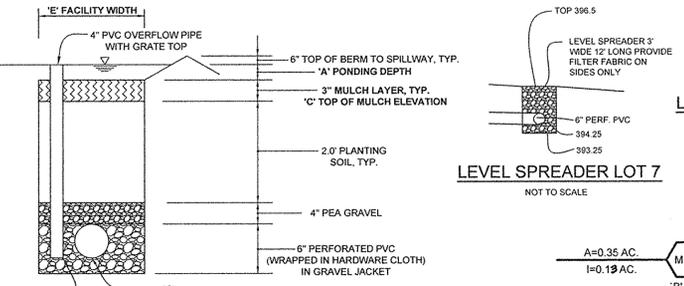
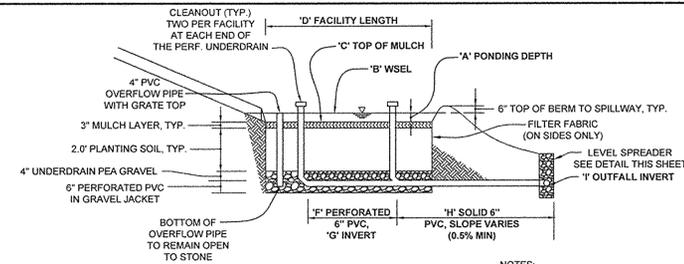
OWNER/DEVELOPER

MICHAEL BALAKIRSKY
11758 BRAGDON WOOD
CLARKSVILLE, MD 21029
410.340.7823

SILL ENGINEERING GROUP, LLC
11130 Dovedale Court, Suite 200
Manassasville, Maryland 21104
Phone: 413.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: KSZ
CHECKED BY: PS
SCALE: AS SHOWN
DATE: NOVEMBER 15, 2015
PROJECT #: 15-014
SHEET #: 1 of 4

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. 33025, EXPIRATION DATE: JUNE 20, 2017



SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GhB	GLENELG-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	B	0.28

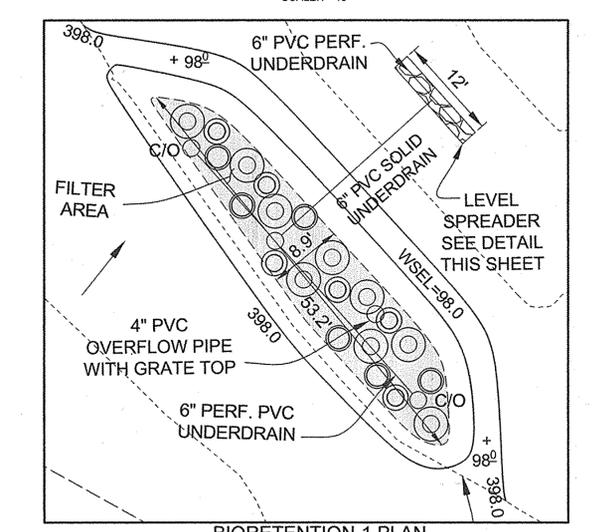
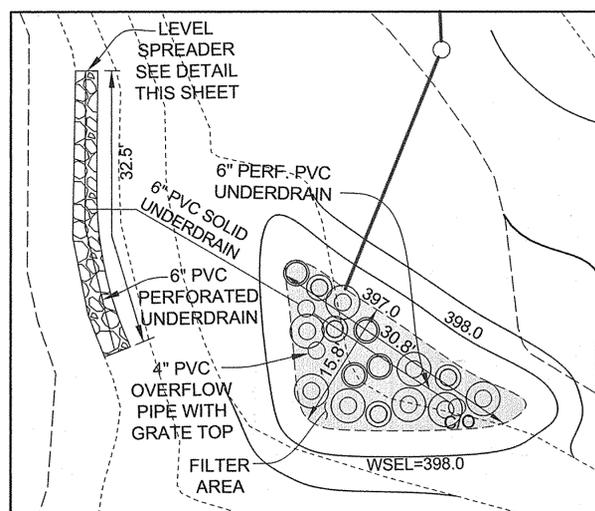
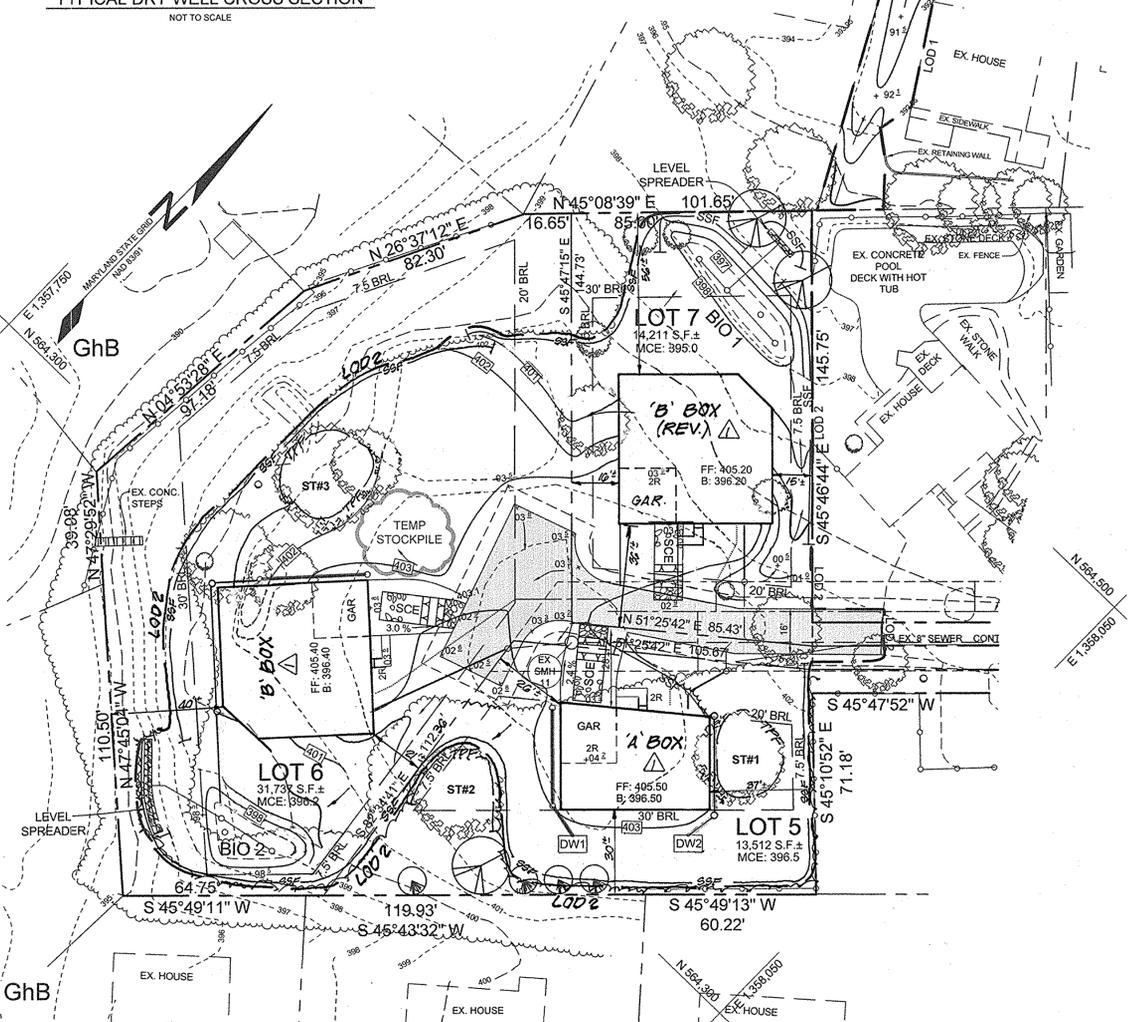
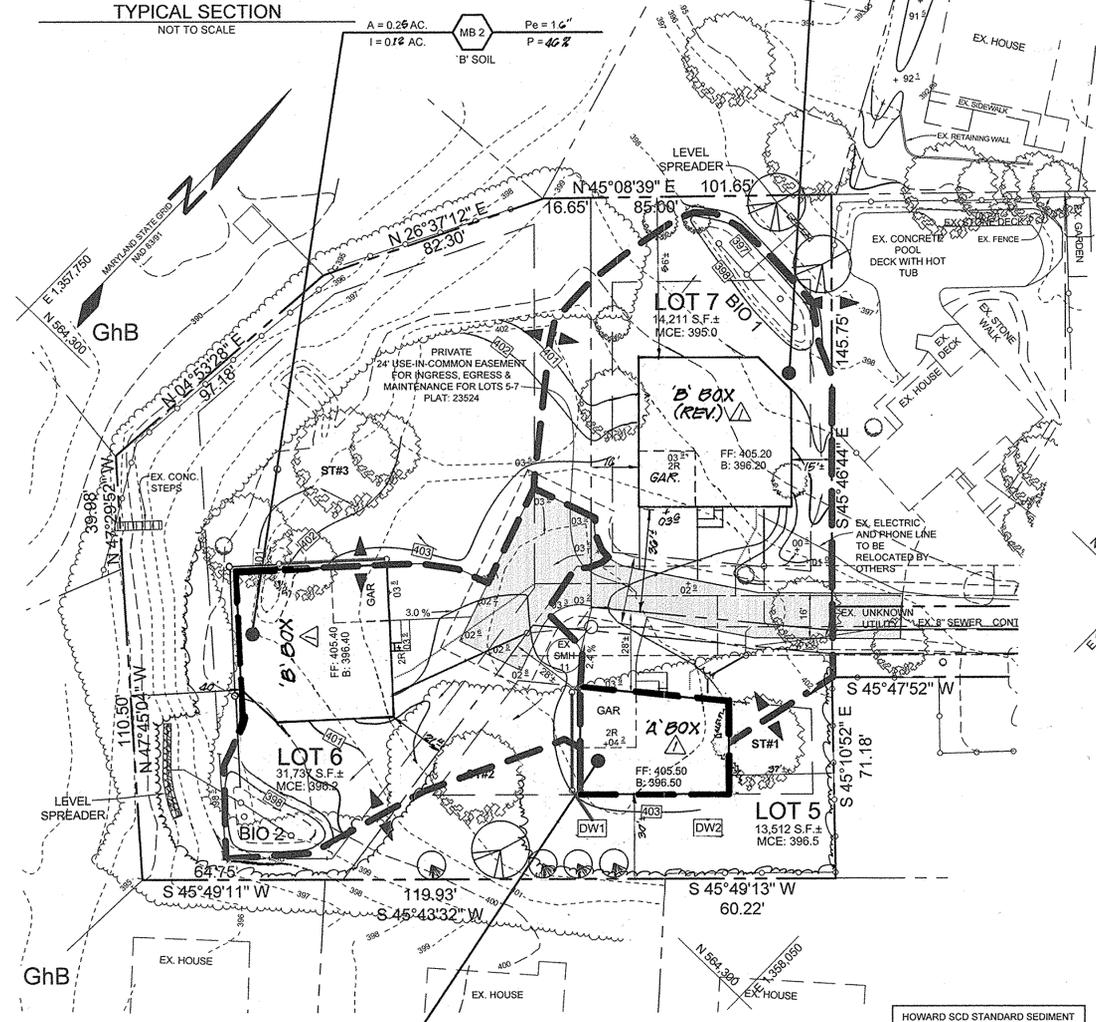
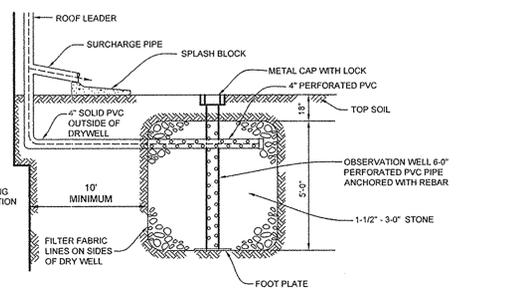
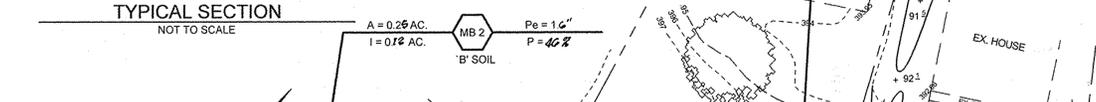
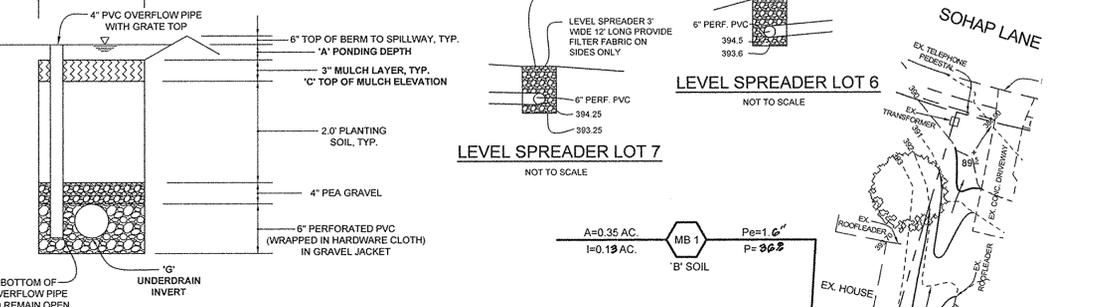
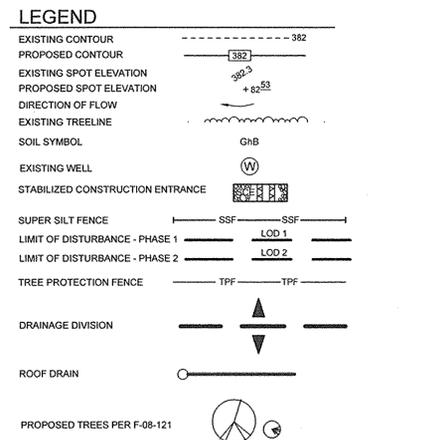
NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEBB SOIL SURVEY, SOILS MAP, GRID 14, SUBGRIDS 75 AND 96.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

DRY WELL CHART			
LOT NO.	VOLUME REQUIRED	VOLUME PROVIDED	DRY WELL #
5	118 CF	120 CF	1
5	118 CF	120 CF	2

BIORETENTION ELEVATIONS AND DIMENSIONS		
DESCRIPTION	BIO 1	BIO 2
'A' PONDING DEPTH	1.0'	1.0'
'B' WSEL	398	398
'C' TOP OF MULCH	397	397
'D' FACILITY LENGTH	53.2	30.8'
'E' FACILITY WIDTH	8.9'	15.8'
'F' PERF. UNDERDRAIN DIMENSION	36.0'	21.0'
'G' UNDERDRAIN INVERT	393.9	393.9
'H' SOLID UNDERDRAIN DIMENSION	23.8'	28.0'
'I' OUTFALL INVERT	394.25	394.5

BIORETENTION PLANT LIST							
LEGEND	HERBACEOUS SPECIES	KEY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS
○	EUPATORIUM FISTULOSUM	EFM	EUPATORIUM FISTULOSUM	JOE-PYE WEED	AS SHOWN (MIN. 4' O.C.)	1 QT./12\"/>	
○	MONARDA DIDYMA	MDI	MONARDA DIDYMA	BEEBALM	AS SHOWN (MIN. 3' O.C.)	1 QT.	CONT. (3' O.C.)
○	RUDEBECKIA LACINIATA	RLA	RUDEBECKIA LACINIATA	TALL CONEFLOWER	AS SHOWN (MIN. 3' O.C.)	1 QT.	CONT. (3' O.C.)

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH.
 BIO 1 - BIORETENTION AREA = 393 S.F. OR 0.009 AC. PROVIDED: 21 HERBACEOUS SPECIES
 BIO 2 - BIORETENTION AREA = 314 S.F. OR 0.007 AC. PROVIDED: 16 HERBACEOUS SPECIES



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE: 12-10-15
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	DATE: 12-14-15
<i>[Signature]</i> DIRECTOR	DATE: 12-16-15

NO.	DESCRIPTION	DATE
1	UPDATE GENERIC BOX, GRADING, SEC. AND UPDATE SHEET NUMBERS	11/10/16

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

HOWARD SCD STANDARD SEDIMENT CONTROL PLAN SHALL NOT BE USED TO OBTAIN PERMITS FOR THIS PROJECT.

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SOIL 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]
 SIGNATURE OF ENGINEER
 PAUL M. SILL, P.E.
 DATE: 11/17/15

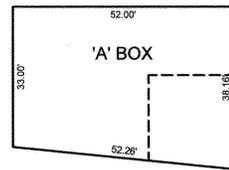
DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED 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]
 SIGNATURE OF DEVELOPER
 DATE: 11/19/15

OWNER/DEVELOPER
 MICHAEL BALAKIRSKY
 11755 BRADON WOOD
 CLARKSVILLE, MD 21029
 410.340.7823

DESIGN BY: PS
 DRAWN BY: KSZ
 CHECKED BY: PS
 SCALE: 1" = 30'
 DATE: NOVEMBER 18, 2015
 PROJECT #: 15-014
 SHEET #: 2 of 4

STATE OF MARYLAND PROFESSIONAL ENGINEER
 SILL ENGINEERING GROUP, LLC
 11130 Dovetail Court, Suite 200
 Marriottsville, Maryland 21104
 Phone: 410.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

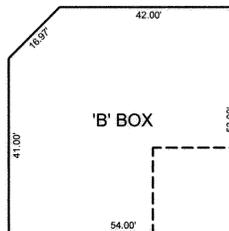
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2017



GERMANTOWN
FRONT BAY WINDOW ONLY

NEWCASTLE
FRONT BAY WINDOWS ONLY
OVERHANG FIREPLACE ONLY

ST. JOHNS
OVERHANG FIREPLACE ONLY



GERMANTOWN
ALL OPTIONS AND ELEVATIONS

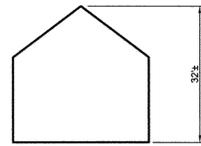
GEORGETOWN
ALL OPTIONS AND ELEVATIONS

NEWCASTLE
ALL OPTIONS AND ELEVATIONS

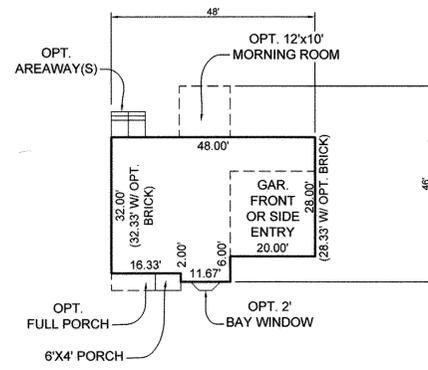
OXFORD
ALL OPTIONS AND ELEVATIONS

ST. JOHNS
ALL OPTIONS AND ELEVATIONS

TREEMONT
ALL OPTIONS AND ELEVATIONS

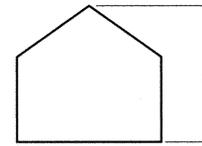


PROFILE

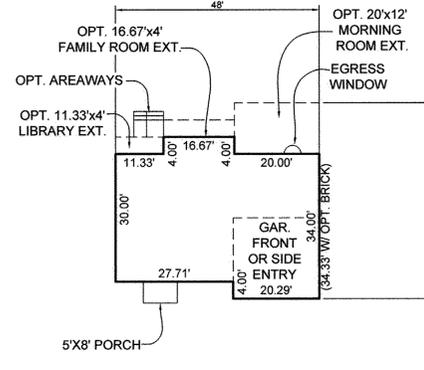


GERMANTOWN

SCALE: 1"=20'

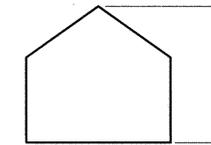


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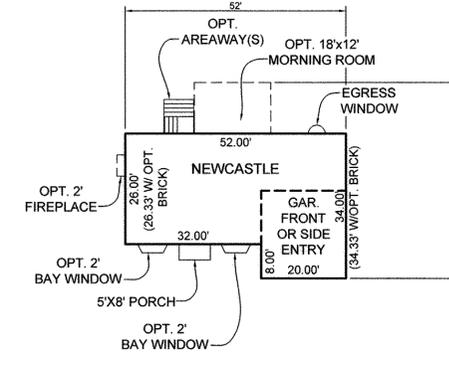


OXFORD

SCALE: 1"=20'

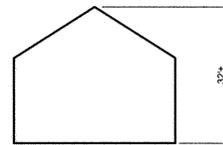


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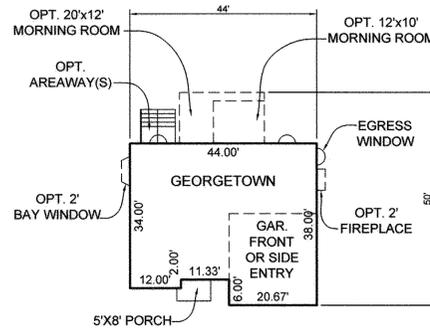


NEWCASTLE

SCALE: 1"=20'

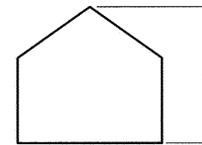


PROFILE

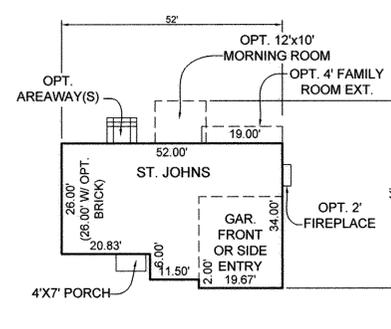


GEORGETOWN

SCALE: 1"=20'

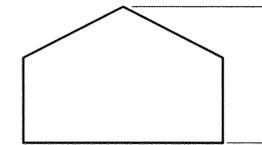


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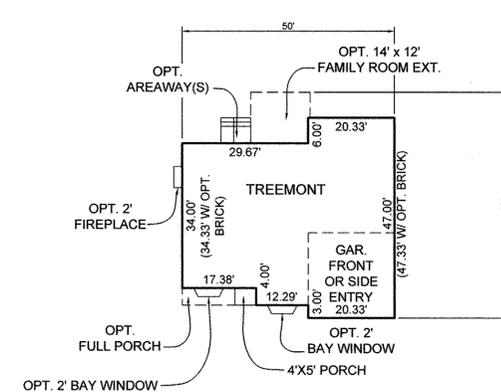


ST. JOHNS

SCALE: 1"=20'



PROFILE



TREEMONT

SCALE: 1"=20'

THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS TO SHOW REVISED HOUSE TYPES.

OWNER/DEVELOPER

MICHAEL BALAKIRSKY
11755 BRAGDON WOOD
CLARKSVILLE, MD 21029
410.340.7823

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

4-22-16
DATE
4-26-16
DATE
4-26-16
DATE

HOUSE MODEL TEMPLATES

MILL HAVEN

LOTS 5, 6 & 7

A RE-SUBDIVISION OF LOT 2, MILL HAVEN

TAX MAP 36 GRID 4
6TH ELECTION DISTRICT

PARCEL 2
HOWARD COUNTY, MARYLAND



SILL
ENGINEERING
GROUP, LLC

11130 Dovedale Court, Suite 200
Marriottsville, Maryland 21104
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: AEA
CHECKED BY: PS
SCALE: AS SHOWN
DATE: APRIL 16, 2016
PROJECT #: 15-014
SHEET #: 4 of 4

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30025, EXPIRATION DATE: JUNE 20, 2017