

# INDEX OF DRAWINGS

NO.	DESCRIPTION
1	HOUSE SPECIFIC SITE DEVELOPMENT PLAN
2	NOTES AND DETAILS

## LEGEND

	M-6, MICRO-BIORETENTION I.D.
	MICRO-BIORETENTION DRAINAGE AREA
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE
	SUPER SILT FENCE
	SILT DIVERSION FENCE
	TREE PROTECTION FENCE (HOWARD COUNTY STD. L-9.02)
	ROOF DRAIN LEADER

	EXISTING TREES TO BE REMOVED (W/DIA. AND SPECIES)
	EXISTING TREES TO REMAIN (W/DIA. AND SPECIES)

## SITE ANALYSIS DATA:

- LOCATION: TAX MAP 17, GRID 9, PARCEL 360, PLAT 7333  
ZONING: R-20  
ELECTION DISTRICT: 2ND  
PROPOSED USE FOR SITE: RESIDENTIAL  
TOTAL NUMBER OF UNITS: 1  
TYPE OF PROPOSED UNIT: SFD  
REQUIRED PARKING SPACES: 2 PER DWELLING UNIT  
PROVIDED PARKING SPACES: 2 (MINIMUM) - 2 SPACES ARE PROVIDED ON DRIVEWAY IN FRONT OF GARAGE
- AREA OF THE SITE = 0.32± Ac  
LIMIT OF DISTURBANCE = 0.29± Ac
- AREA OF WETLANDS AND ITS BUFFERS = 0
- AREA OF FLOODPLAIN = 0
- AREA OF STREAM BUFFER = 0
- AREA OF STEEP SLOPES (>25%) = 0
- AREA OF FOREST = 0
- TOTAL ENVIRONMENTAL SENSITIVE AREA = 0\*
- DEVELOPABLE AREA = 0.32± Ac  
NEW IMPERVIOUS AREA: 1,975 SF / 0.045 Ac (HOUSES AND STOODS)  
768 SF / 0.018 Ac (LOT DRIVEWAYS)  
2,743 SF / 0.063 Ac (TOTAL NEW IMPERVIOUS)  
PERVIOUS/GREEN AREA: 11,370 SF / 0.261 Ac
- THIS SITE CONTAINS MANOR SILT LOAM (MOD) AND IS CONSIDERED A HIGHLY ERODIBLE SOIL. NO DISTURBANCE IS PROPOSED WITHIN THIS SOIL CLASSIFICATION.

\*TOTAL AREA OF STREAM AND STREAM BUFFERS, WETLANDS AND WETLAND BUFFERS, 100-YEAR FLOODPLAIN AREAS, AND STEEP SLOPE AREAS, TAKING OVERLAPPING INTO ACCOUNT

## OWNER / DEVELOPER

DORSEY FAMILY HOMES, INC.  
10717-B BIRMINGHAM WAY  
WOODSTOCK, MARYLAND 21163  
(410)465-5739

## DEVELOPERS CERTIFICATE

I 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. HOWARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO PERIODIC ON-SITE INSPECTION.

*Robert Dorsey Jr.* 10-18-2012  
SIGNATURE OF DEVELOPER DATE

ROBERT DORSEY JR., PRESIDENT, DORSEY FAMILY HOMES, INC.  
PRINTED NAME OF DEVELOPER

## 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 NATURAL RESOURCE CONSERVATION SERVICE.

*Jeffrey S. Sloman* 10/15/12  
SIGNATURE OF ENGINEER DATE

JEFFREY SLOMAN, PE  
PRINTED NAME OF ENGINEER

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

*John R. Robertson* 10/15/12  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Jeffrey S. Sloman* 12/3/12  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Jeffrey S. Sloman* 12/07/12  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Mark A. Joyce* 12/5/12  
DIRECTOR DATE

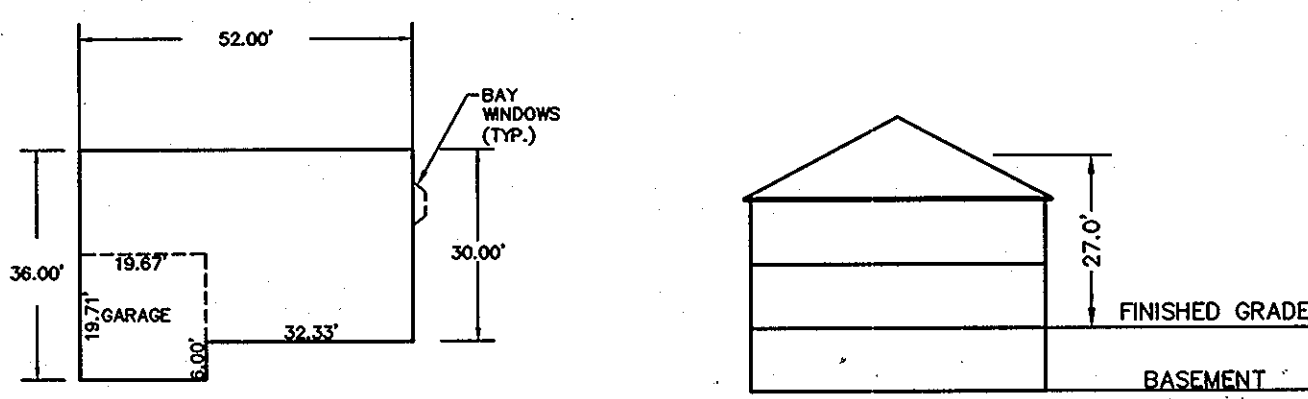
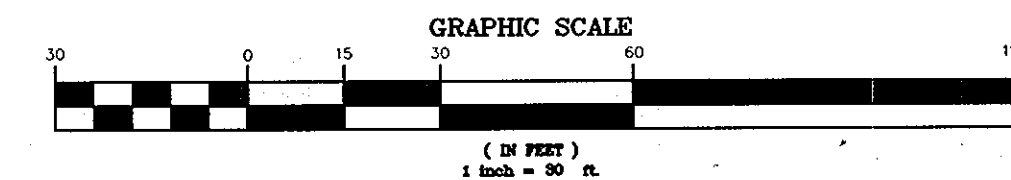
## MICRO-BIORETENTION SCHEDULE

FACILITY	TOP EL. (A)	TOP OF BERM(S) (C)	INV. IN (D)	INV. OUT (E)	AREA AT TOP EL. (A-D)
MB-A	437.70	438.70	434.59	434.20	37 SF
MB-B	438.70	439.70	435.79	435.50	98 SF

DIMENSIONS OF THE PROPOSED MICRO-BIORETENTION FACILITIES MAY BE REVISED IN THE FIELD SO LONG AS THE TOP OF FACILITY AREAS ARE MAINTAINED AND ALL REQUIRED SETBACKS ARE OBSERVED.

## STORMWATER MANAGEMENT PRACTICES

LOT #	ADDRESS	GREEN ROOF	PERMEABLE PAVEMENTS	REINFORCED TURF	DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON-ROOFTOP RUNOFF	SHEETFLOW TO CONSERVATION AREAS	RAINWATER HARVESTING	SUBMERGED GRAVEL WETLANDS	LANDSCAPE INFILTRATION	INFILTRATION BERMS	DRY WELLS	MICRO-BIORETENTION	RAIN GARDENS	SWALES	ENHANCED FILTERS
16	2412 MCKENZIE ROAD	A-1 (Y/N)	A-2 (Y/N)	A-3 (Y/N)	N-1 (NUMBER)	N-2 (Y/N)	N-3 (Y/N)	M-1 (NUMBER)	M-2 (NUMBER)	M-3 (NUMBER)	M-4 (NUMBER)	M-5 (NUMBER)	M-6 (NUMBER)	M-7 (NUMBER)	M-8 (NUMBER)	M-9 (NUMBER)



ARMISTEAD III  
SCALE: 1"=30'

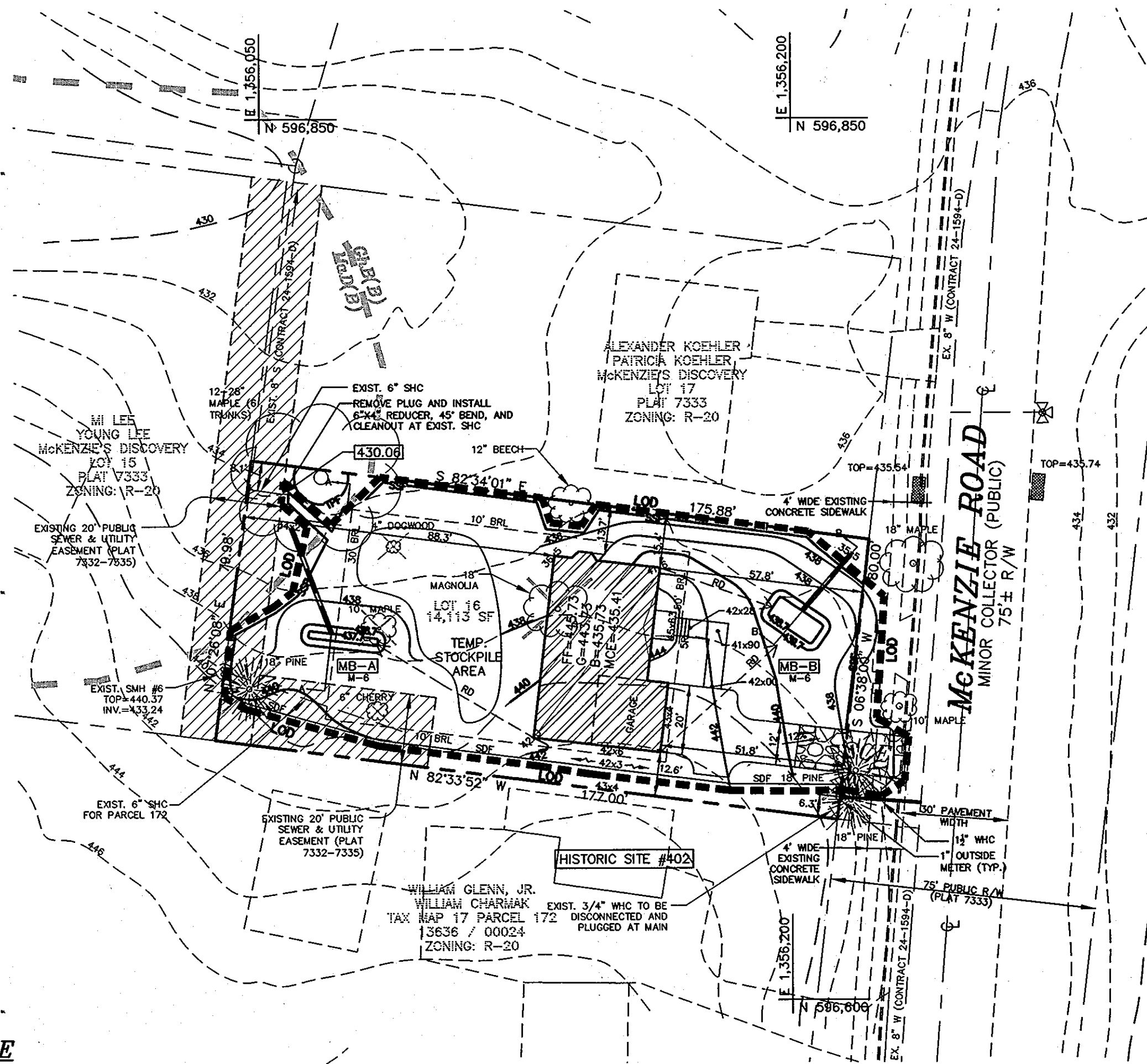
# SITE DEVELOPMENT PLAN

## McKENZIE'S DISCOVERY

### LOT 16

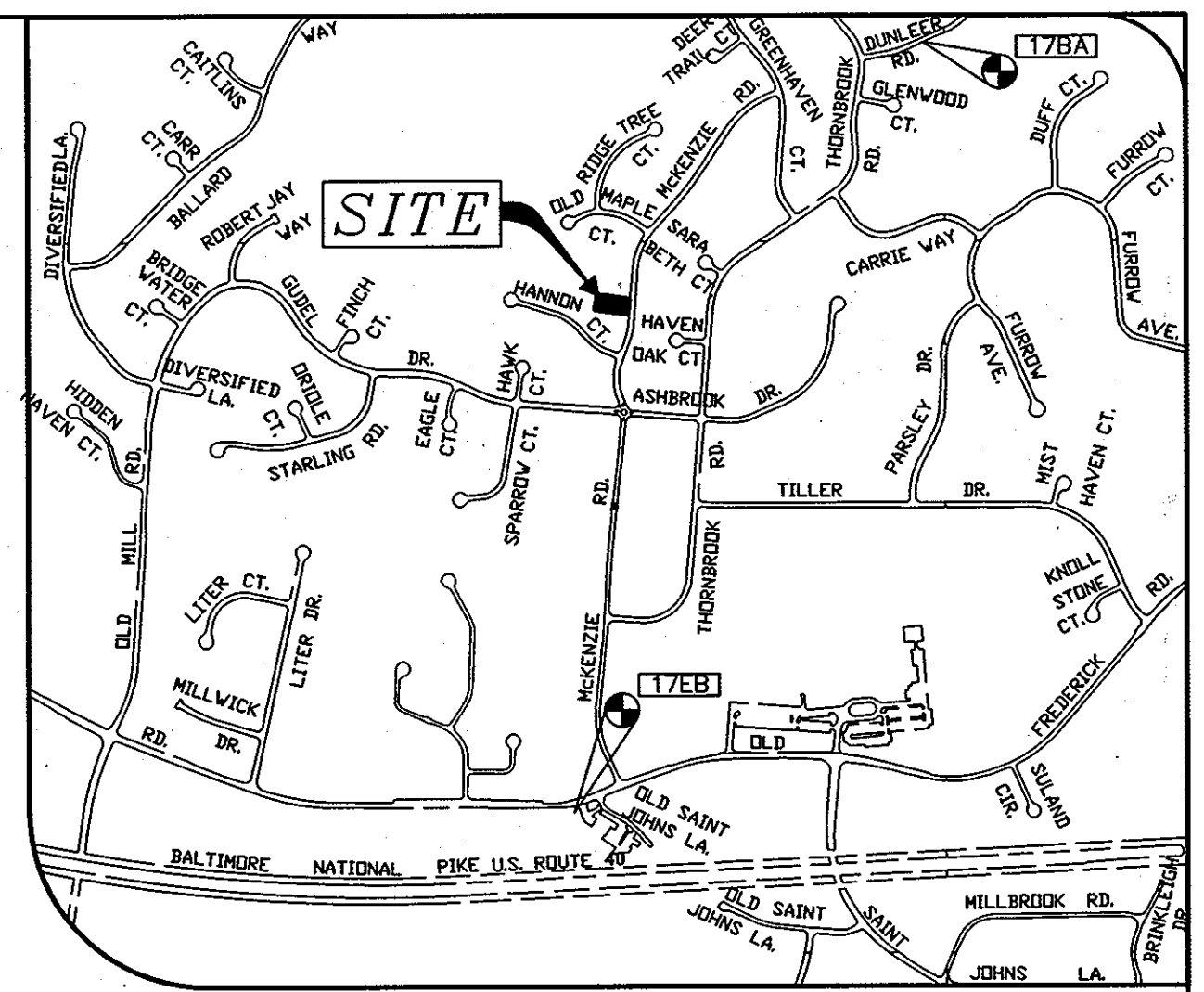
## SECOND ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND



ANY EXISTING CONCRETE SIDEWALK WITHIN THE MCKENZIE ROAD RIGHT-OF-WAY THAT IS REMOVED (OUTSIDE OF THE LIMITS OF THE PROPOSED DRIVEWAY) SHALL BE REPLACED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-3.05

CONTRACTOR TO TAKE CARE NOT TO DAMAGE EXISTING MULTIPLE-TRUNK MAPLE TREE WHILE INSTALLING SEWER HOUSE CONNECTION (SHC).



## VICINITY MAP

SCALE: 1"=1000'  
ADC MAP 4815, GRID E2

## GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY MILDBERG, BOENDER AND ASSOC. ON OR ABOUT AUGUST, 2012.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NAVD '88 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO.178A & 178B  
STA. No. 178A N 598187.4283 E 1357819.3715 EL. 411.68  
STA. No. 178B N 598183.9160 E 1355731.8366 EL. 453.40
- EXISTING UTILITIES ARE BASED ON ACTUAL FIELD LOCATIONS, IN COMBINATION WITH EXISTING WATER AND SEWER CONTRACTS.
- ANY DAMAGE TO THE COUNTY RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SEWER HOUSE CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE OR EASEMENT LINE.
- FOR DRIVEWAY ENTRANCE DETAILS, REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06.
- SEE THIS SHEET FOR SITE ANALYSIS DATA CHART
- PREVIOUS DPZ FILES: S-86-077, P-87-003, F-87-107, ECP-130-001
- SUBJECT PROPERTY ZONED R-20 RESIDENTIAL PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND PER THE COMP LITE ZONING AMENDMENT EFFECTIVE 7/28/06.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW PAVING OR STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS, AND FOREST CONSERVATION EASEMENT AREAS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - WIDTH - 12 FEET MIN. (16 FEET MIN. SERVING MORE THAN ONE RESIDENCE).
  - SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2 INCH MINIMUM).
  - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.
  - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
  - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. LOT 16 WILL BE SERVED UNDER CONTRACT # 24-1594-D.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY RIGHT-OF-WAY LINE.
- MINIMUM LOT SIZE AND OPEN SPACE REQUIREMENTS SHOWN ABOVE ARE IN ACCORDANCE WITH SECTION 16.121(c)(2) OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AMENDED 5th ED.
- BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE.
- NO WETLANDS, STREAMS, FORESTS OR THEIR BUFFERS EXIST ON-SITE PER F-87-107 AND AS FIELD VERIFIED BY MILDBERG, BOENDER & ASSOCIATES, INC. ON JULY 6, 2012.
- THIS PLAN IS CONDITIONALLY EXEMPT FOR FOREST CONSERVATION REQUIREMENTS WITH A LETTER OF INTENT PER SECTION 16.120(b)(2)(i)(c) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, GRADING AND CLEARING OF EXISTING FOREST IS LESS THAN 20,000 SF.
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES I AND II.
- THIS SITE DEVELOPMENT PLAN (SDP) IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION, OR BUILDING / GRADING PERMIT.
- LOT 16 IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL BASED ON ITS RECORDATION DATE OF 8/12/87, PLAT #7332-7335.
- THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.

## SWM PRACTICES SCHEDULE

AREA	ADDRESS	PROPOSED PRACTICES	REQUIRED ESdV	PROVIDED ESdV	REQUIRED Pe	PROVIDED Pe
LOT 16	2412 MCKENZIE ROAD	M-6, MICRO-BIORETENTION (MB-A & B)	318 CF	318 CF	1.20"	1.20"
TOTAL			318 CF	318 CF		

ALL STRUCTURAL BMP'S WILL BE PRIVATELY OWNED AND MAINTAINED

## SOILS DESCRIPTION

DESIGNATION	HYDROLOGICAL GROUP	DESCRIPTION
MoD	B	MANOR SILT LOAM, 15 TO 25 PERCENT SLOPE
ChB	B	GLENELG-URBAN LAND, 0 TO 8 PERCENT SLOPE

## PERMIT INFORMATION BLOCK

SUBDIVISION NAME: MCKENZIE'S DISCOVERY		SECTION/AREA: SEC. 1, AREA 1	PARCEL: 360 LOT 16	
PLAT NO. 7332-7335	BLOCK(S) 9	ZONING R-20	TAX MAP NO. 17	ELECTION DISTRICT 2ND
		CENSUS TRACT 6021.00		

## ADDRESS CHART

LOT #	ADDRESS
16	2412 MCKENZIE ROAD

date	OCT 2012	project	12-019
illustration	JIS	engineering	JIS
scale	1"=30'	approval	RH

MCKENZIE'S DISCOVERY LOT 16  
2412 MCKENZIE ROAD, ELLICOTT CITY, MARYLAND, SFD DWELLING  
TAX MAP 17, GRID 9, PARCEL 360, AREA 1, PLAT #7333  
SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
HOUSE SPECIFIC SITE DEVELOPMENT PLAN

MILDBERG, BOENDER & ASSOC., INC.  
Engineers Planners Surveyors  
6800 Deerpath Road, Suite 150, Elkridge, Maryland 21075  
(410) 997-0296 Fax

HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

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

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARRROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).

SEEDING - FOR THE PERIODS MARCH 1 THRU MAY 15, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS./1000 SQ.F.T. OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JUNE 15, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.F.T.) OF WEEPING LOVEGRASS.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.F.T.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.F.T.) OF EMULSIFIED ASPHALT ON FLAT AREAS.

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

TEMPORARY SEEDING NOTES

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.F.T.)

SEEDING: FOR PERIODS MARCH 1 THRU MAY 15 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF CEREAL RYE (3.2 LBS./1000 SQ.F.T.) FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SQ.F.T.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.F.T.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.F.T.) OF EMULSIFIED ASPHALT ON FLAT AREAS.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.

Table with 2 columns: Item, Value. Includes: TOTAL AREA OF SITE: 0.32 ACRES; AREA TO BE DISTURBED: 0.28 ACRES; AREA TO BE ROOFED OR PAVED: 0.08 ACRES; AREA TO BE VEGETATIVELY STABILIZED: 0.23 ACRES; TOTAL CUT: 300 CU. YDS.; TOTAL FILL: 300 CU. YDS.; TOTAL WASTE/BORROW AREA LOCATION: TBD.

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.

- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

- CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.

CONSTRUCTION AND MATERIAL SPECIFICATIONS: TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE 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: I. 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.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW: I. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

TEMPORARY DUST CONTROL MEASURES

- 1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- 3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS.

SEQUENCE OF CONSTRUCTION

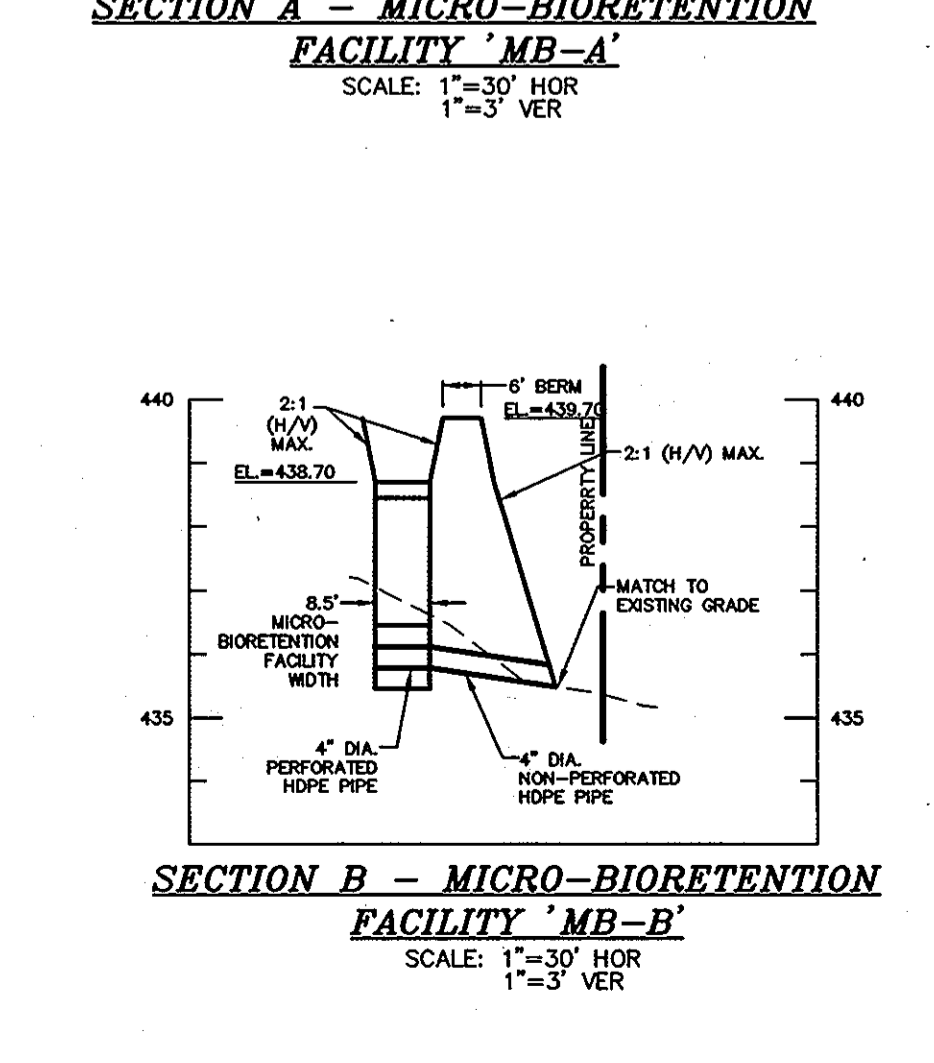
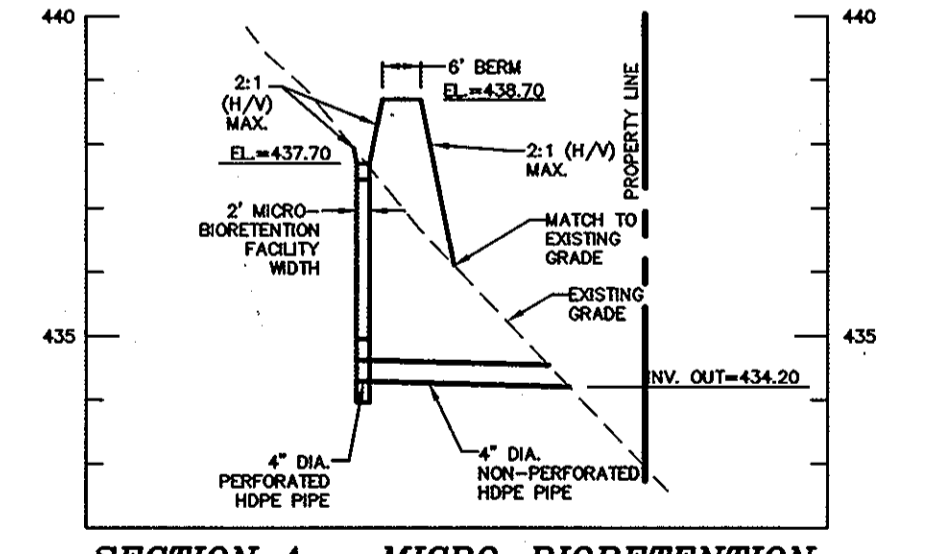
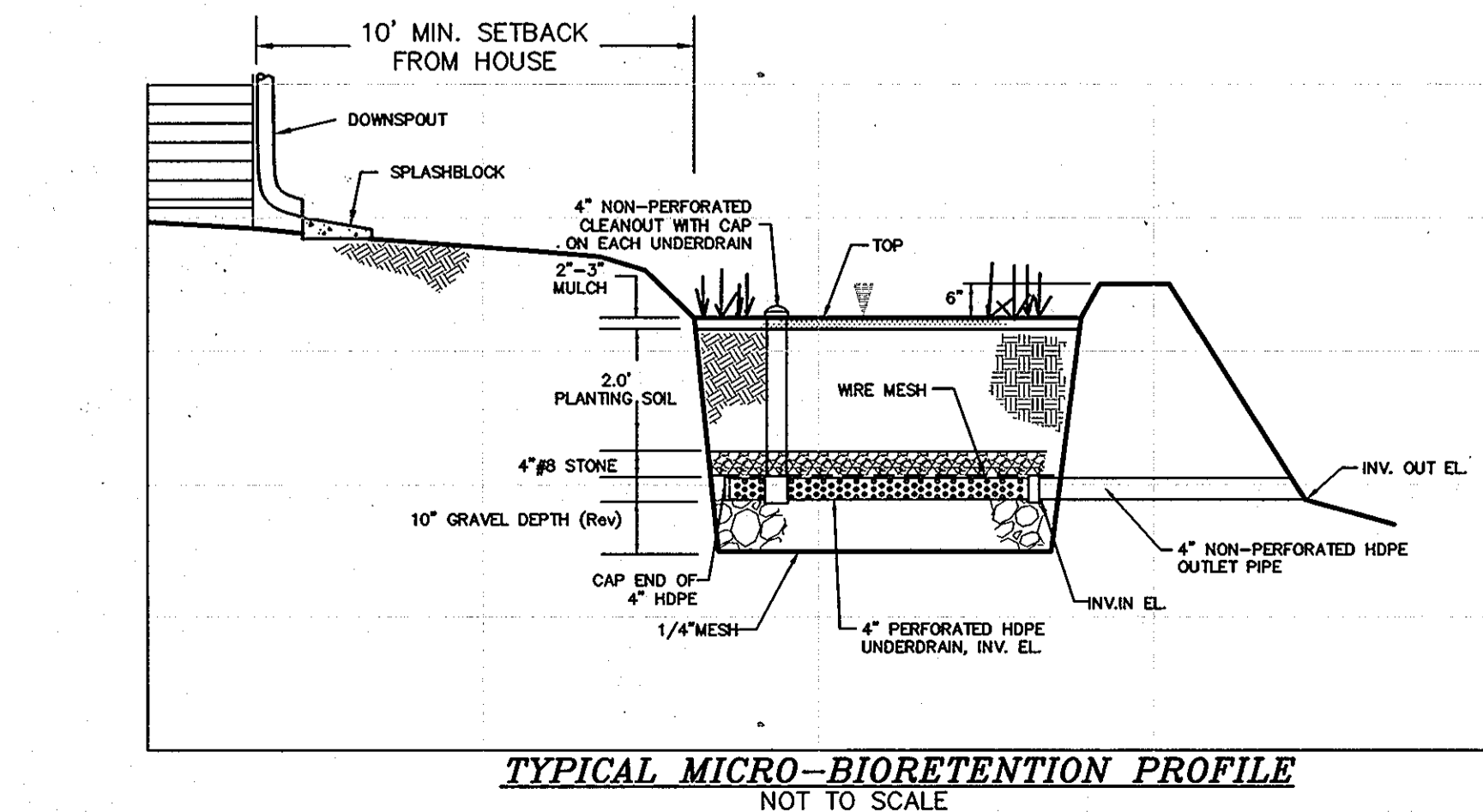
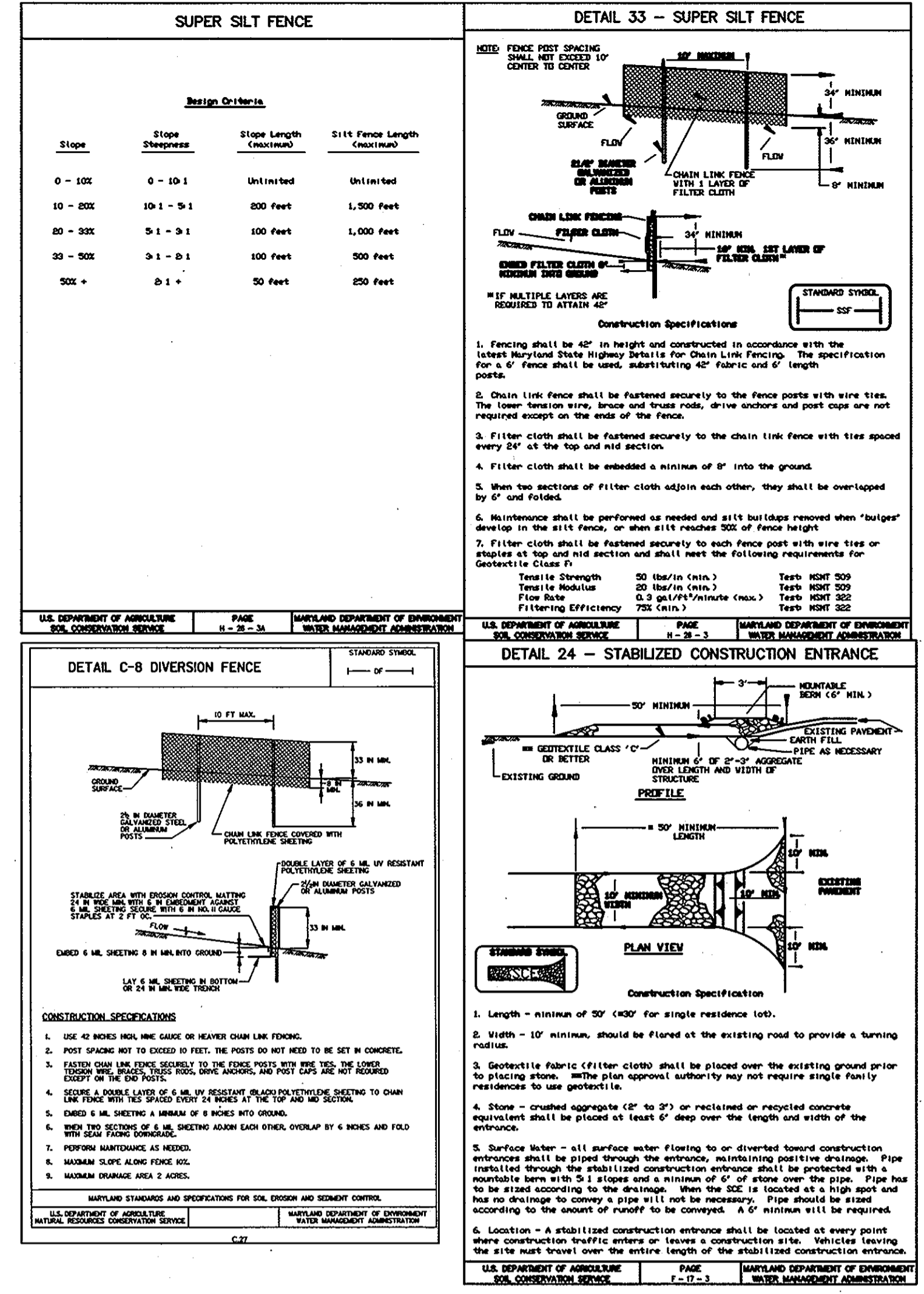
- 1. OBTAIN GRADING PERMIT (1 DAY).
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (1 DAY).
- 3. CONSTRUCT TREE PROTECTION FENCE, SILT FENCES AND SUPER SILT FENCES (2 DAYS).
- 4. CONSTRUCT SITE TO GRADES INDICATED WITH PERMISSION FROM INSPECTOR BEFORE PROCEEDING (10 DAYS).

EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- 2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- 3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

- 1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT.
- 2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT.

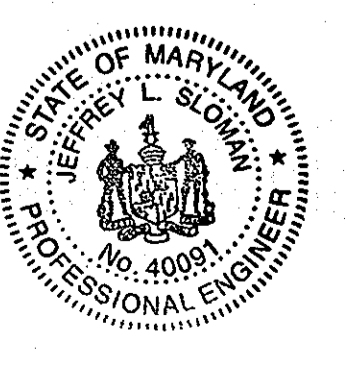


DEVELOPERS CERTIFICATE: I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

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 NATURAL RESOURCE CONSERVATION SERVICE.

APPROVED: DEPARTMENT OF PLANNING AND ZONING. Signatures and dates for Chief, Development Engineering Division and Chief, Division of Land Development.

OWNER / DEVELOPER: DORSEY FAMILY HOMES, INC. 10717-B BIRMINGHAM WAY WOODSTOCK, MARYLAND 21163 (410)465-5739



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. 40991, EXP DATE 2/13/15.

Project information: date OCT 2012, project 12-019, illustration JLS, JLS, JLS, JLS, JLS. Description: MCKENZIE'S DISCOVERY LOT 16, 2412 MCKENZIE ROAD, ELICOTT CITY, MARYLAND, SFD DWELLING. Tax Map 17, GRID 9, PARCEL 360, AREA 1, PLAT #7838. Notes and Details: MILDENBERG, BOENDER & ASSOC., INC. Engineers Planners Surveyors 6800 Deepwater Road, Suite 150, Ellicott City, Maryland 21075 (410) 997-0286 Fax: (410) 997-0286 Bldg. 2 OF 2 SDP-13-012