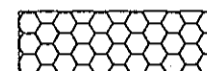
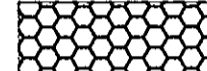




# SUPPLEMENTAL AND ROAD IMPROVEMENT PLANS ROCKBURN VIEW LOTS 54 THRU 61, AND OPEN SPACE LOT 62 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

### LEGEND


-  LIMITS OF EXISTING FOREST CONSERVATION EASEMENT PER F-99-163 (PLAT 14505)
-  LIMITS OF FOREST CONSERVATION EASEMENT AND OPEN SPACE TO BE DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS (956 SF / 0.02 Ac)
-  LIMITS OF EXISTING FOREST CONSERVATION EASEMENT TO BE ABANDONED (3,974 SF / 0.09 Ac)
-  LIMITS OF EXISTING WETLAND PER F-99-163 (PLAT 14505)

### OWNER / DEVELOPER

DORSEY FAMILY HOMES, INC.  
10717-B BIRMINGHAM WAY  
WOODSTOCK, MARYLAND 21163  
(410)465-7200


### 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.


 7/2/13  
SIGNATURE OF ENGINEER DATE  
JEFFREY SLOMAN, PE  
PRINTED NAME OF ENGINEER

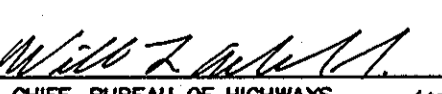
### DEVELOPER'S CERTIFICATE


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 CONDUCT PERIODIC ON-SITE INSPECTION.

 7-15-13  
SIGNATURE OF DEVELOPER DATE  
ROBERT DORSEY, JR., PRESIDENT, DORSEY FAMILY HOMES, INC.  
PRINTED NAME OF DEVELOPER

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

 7/25/13  
HOWARD SOIL CONSERVATION DISTRICT DATE

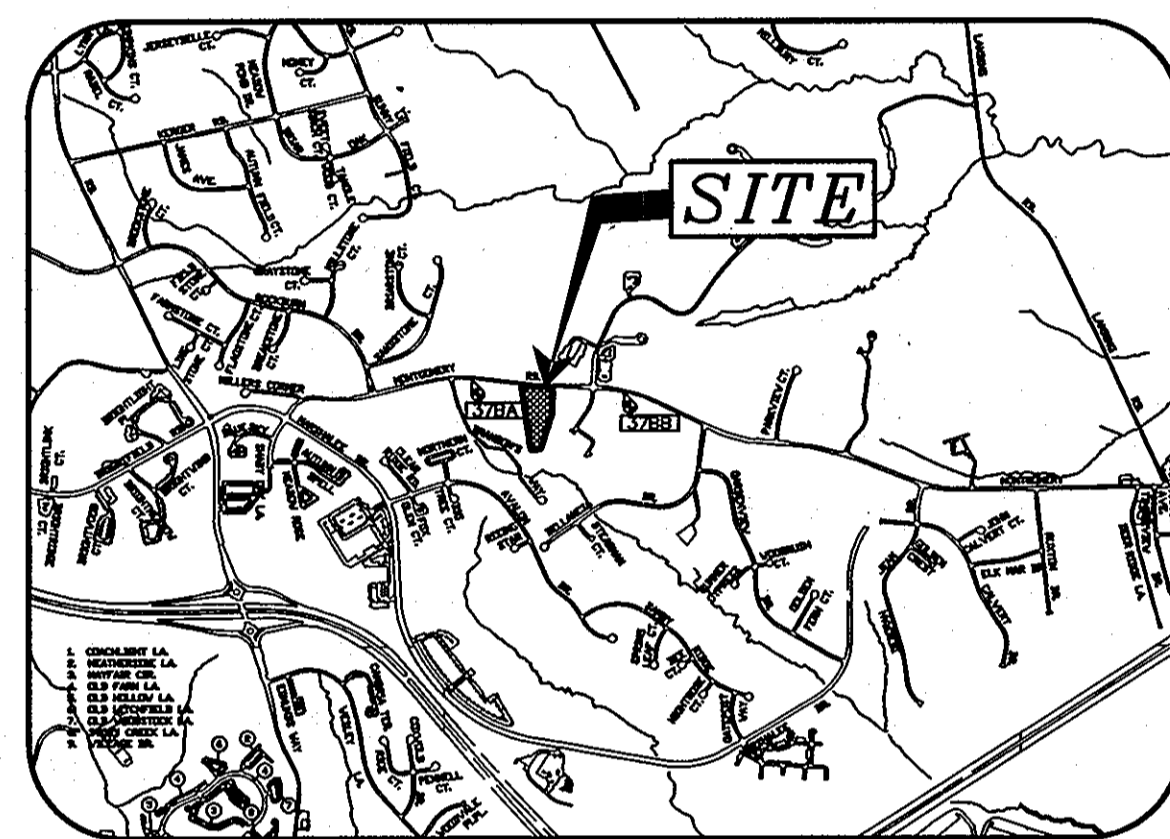
APPROVED: DEPARTMENT OF PUBLIC WORKS  
 8-1-13  
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 8/26/13  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

 7/2/13  
DATE



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. 40091, EXP DATE 2/13/15.



VICINITY MAP

SCALE: 1" = 200'  
ADC MAP 34 - GRID E1

### SHEET INDEX

SHEET NO.	TITLE
1	COVER SHEET
2	SUPPLEMENTAL, STORMWATER MANAGEMENT AND ROAD IMPROVEMENT PLAN
3	SUPPLEMENTAL AND LANDSCAPE PLAN
4	ROAD IMPROVEMENT AND STORMWATER MANAGEMENT SECTIONS AND DETAILS
5	ROAD IMPROVEMENT AND STORMWATER MANAGEMENT SECTIONS AND DETAILS
6	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

### STORMWATER MANAGEMENT PRACTICES

LOT #	ADDRESS	GREEN ROOF PAVEMENTS			DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON-ROOFTOP RUNOFF	SHEETFLOW TO CONSERVATION AREAS	RAINFATER HARVESTING	SUBMERGED GRAVEL WETLANDS	LANDSCAPE INFILTRATION	INFILTRATION BERMS	DRY WELLS	MICRO-BIOTRETENTION	RAIN GARDENS	SWALES	ENHANCED FILTERS
		A-1 (Y/N)	A-2 (Y/N)	A-3 (Y/N)												
54	6003 CULLINS WAY	N	N	N	2	N	N	0	0	0	0	0	1	0	0	0
55	6002 CULLINS WAY	N	N	N	0	N	N	0	0	0	0	0	1	0	0	0
56	6006 CULLINS WAY	N	N	N	1	Y	N	0	0	0	0	0	0	0	0	0
57	6007 CULLINS WAY	N	N	N	0	N	N	0	0	0	0	0	0	0	0	0
58	6010 CULLINS WAY	N	N	N	0	N	N	0	0	0	0	0	1	0	0	0
59	6011 CULLINS WAY	N	N	N	0	N	N	0	0	0	0	0	1	0	0	0
60	6014 CULLINS WAY	N	N	N	0	N	N	0	0	0	0	0	1	0	0	0
61	6015 CULLINS WAY	N	N	N	0	N	N	0	0	0	0	0	1	0	0	0
62		N	N	N	0	N	N	0	0	0	0	0	0	0	0	0
D/W		N	N	N	0	Y	N	0	0	0	0	0	0	0	0	0

### EROSION AND SEDIMENT CONTROL NOTES

- 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.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
- EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY.
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

### NOTES

- SITE ANALYSIS DATA:  
LOCATION: TAX MAP: 37 PARCEL: 563 GRID 4 LOT 32  
ELECTION DISTRICT: SECOND  
ZONING: R-20  
TOTAL GROSS SITE AREA: 3.53 AC.±  
AREA OF WETLAND BUFFER TO BE DEDICATED TO HOWARD COUNTY: 0.02 AC.±  
TOTAL NET SITE AREA: 3.51 AC.±  
AREA OF 15-24.00% SLOPES: 0.42 AC.± (18,489 SF)  
AREA OF >25% SLOPES: 0  
LIMIT OF DISTURBED AREA: 2.96 AC.± (0.14 Ac OFFSITE)  
PROPOSED USE FOR SITE: RESIDENTIAL  
TOTAL NUMBER OF UNITS: 8 (ONE (1) EXISTING)  
TYPE OF PROPOSED UNIT: SFD  
DEED REFERENCE: 11401 / 00100  
PREVIOUS DPZ FILE NUMBERS: S-97-006, P-98-16, F-99-163, PLAT 14503-14508
- HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 378A & 378B  
STA. No. 378A EL. 393.94 N 563785.6421 E 1376343.2088  
STA. No. 378B EL. 373.01 N 563663.4488 E 1376040.5059
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION OR BUILDING/GRADING PERMIT.
- SITE DEVELOPMENT PLAN APPROVAL BY THE DEPARTMENT OF PLANNING AND ZONING IS REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED FOR THE CONSTRUCTION OF RESIDENTIAL DWELLINGS ON THESE LOTS.
- THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH 16.127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPERS OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES.
- PROJECT BOUNDARY IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT JANUARY, 2012 BY MILDBERG, BOENDER AND ASSOC., INC.
- TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED ON OR ABOUT JANUARY, 2012 BY MILDBERG, BOENDER AND ASSOC., INC.
- FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAVE BEEN FULFILLED UNDER APPROVED PLAN F-99-163 AND AS SHOWN ON RECORDED PLAT 14503.
- THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
- PER RECORDED PLAT 14503, APPROVED PLAN F-99-163, AND A SITE VERIFICATION IN FEBRUARY, 2012, NO WETLANDS EXIST ON SITE. THE AREA OF WETLAND BUFFER (OPEN SPACE LOT 62) ON SITE WILL BE DEDICATED TO HOWARD COUNTY FOR USE AS OPEN SPACE.
- FINANCIAL SURETY FOR PERIMETER AND TRASH PAD SCREENING IN THE AMOUNT OF \$9,450 FOR 29 SHADE TREES, 3 EVERGREEN AND 10 SHRUBS SHALL BE POSTED WITH THE DEVELOPER'S AGREEMENT FOR THIS SUBDIVISION, F-12-077.
- SECTION 16.121(g)(2) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS ALLOWS FOR A MINIMUM LOT SIZE OF LESS THAN 20,000 SF IN THE R-20 ZONING DEPENDING ON THE OPEN SPACE PROVIDED. AN OPEN SPACE PERCENTAGE OF 30 PERCENT WAS PROVIDED IN THE ORIGINAL ROCKBURN VIEW SUBDIVISION (F-99-163, PLAT 14503) ALLOWING FOR A MINIMUM LOT SIZE OF 14,000 SF.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL.
- THE FINAL LANDSCAPE DESIGN WILL BE SHOWN ON THE SITE DEVELOPMENT PLAN FOR THE CONSTRUCTION OF HOUSES ON THESE LOTS PER THE COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- NO CEMETERIES EXIST ON SITE.
- THIS PROPOSED SUBDIVISION WILL CONSIST OF SINGLE FAMILY DETACHED DWELLINGS.  
DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES FOR THE FOLLOWING MINIMUM REQUIREMENTS:  
A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE, A WIDER WIDTH MAY BE REQUIRED IN CERTAIN CASES-SEE NOTE BELOW).  
B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2").  
C) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. OF 45 FOOT TURNING RADIUS.  
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).  
E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD PLAIN WITH NO MORE THAN 1 FOOT OF DEPTH OVER DRIVEWAY SURFACE.  
F) STRUCTURE CLEARANCES - MINIMUM 12 INCHES.  
G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.

- NOTE:  
A WAIVER TO SECTION 2.6.A. OF VOLUME III OF THE HOWARD COUNTY DESIGN MANUAL TO ALLOW A USE-IN-COMMON DRIVEWAY TO SERVE MORE THAN SIX (6) LOTS WAS GRANTED ON APRIL 10, 2012. AS A CONDITION OF THE WAIVER, THE USE-IN-COMMON DRIVEWAY SHALL HAVE A PAVEMENT WIDTH OF 22 FEET AND UTILIZE A "P-2" PAVING SECTION.
- 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.
  - ALL EXISTING STRUCTURES ON SITE WILL BE REMOVED, UNLESS OTHERWISE NOTED.
  - PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED UNDER CONTRACT #14-4744-D.
  - STORMWATER MANAGEMENT IS PROVIDED VIA ROOFTOP, NON-ROOFTOP DISCONNECTIONS AND MICRO-BIOTRETENTION FACILITIES IN ACCORDANCE WITH THE 2000 MDE STORMWATER DESIGN MANUAL. ALL ESD PRACTICES WILL BE PRIVATELY OWNED AND MAINTAINED. PRIOR TO SIGNATURE APPROVAL OF THE FINAL PLAT OR SITE DEVELOPMENT PLAN, THE DEVELOPER WILL BE REQUIRED TO EXECUTE THE DECLARATION OF COVENANT AND/OR A DEVELOPER'S AGREEMENT FOR THE CONSTRUCTION OF THE STORMWATER MANAGEMENT PRACTICES AND A MAINTENANCE AGREEMENT FOR THE PRIVATELY OWNED AND MAINTAINED ESD PRACTICES (DISCONNECTIONS AND MICRO-BIOTRETENTION FACILITIES).
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
  - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION 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.
  - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
  - TRAFFIC CONTROL DEVICES:  
a) THE R-1 ("STOP") SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED.  
b) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-5752) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.  
c) ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M&MUTCD).  
d) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO ("QUICK PUNCH") HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
  - STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURES AND POLES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (2006), SECTION 5.5.A. A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
  - THERE IS NO FLOODPLAIN ON THIS SITE.
  - THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, INC., DATED JUNE, 2012.
  - 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, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN.
  - HORIZONTAL GEOMETRY OF THE MICRO-BIOTRETENTION MAY BE MODIFIED WHILE MAINTAINING SURFACE AREA.
  - IMPROVEMENTS TO MONTGOMERY ROAD WILL INCLUDE THE CONSTRUCTION OF A 4' WIDE CONCRETE SIDEWALK, 2' WIDE CURB AND GUTTER, AND THE REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT PER HOWARD COUNTY'S ROADWAY WIDENING DETAIL.
  - NO STEEP SLOPES THAT AVERAGE 25% OR GREATER OVER 10 VERTICAL FEET WITH A 20,000 SF OR GREATER ON-SITE AND OFF-SITE CONTIGUOUS AREA ARE LOCATED ON THIS SITE.
  - WAIVER PETITION WP-12-123, A WAIVER TO SECTION 16.123(g)(2) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, WAS GRANTED ON MARCH 5, 2012. WP-12-123 WAS GRANTED TO ALLOW ON-SITE GRADING PRIOR TO SUBDIVISION AND SITE DEVELOPMENT PLAN APPROVAL. WP-12-123 REQUIRES THAT THE APPLICANT / DEVELOPER APPLY FOR, AND OBTAIN ALL PERMITS FOR THE PROPOSED STOCKPILE AREA BY MARCH 5, 2013.
  - THERE IS AN EXISTING DWELLING ON LOT 57 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATIONS REQUIREMENTS.
  - THERE ARE NO WETLANDS ON THIS SITE.
  - NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.
  - A PRIVATE RANGE OF ADDRESS SIGN SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPER'S/OWNER'S EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATE.
  - A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) PERMIT WILL BE REQUIRED FOR THE PROPOSED SEWER CONSTRUCTION ON ADJACENT OPEN SPACE LOT 16. A PERMIT HAS BEEN APPLIED FOR AND IS RECORDED AT MDE UNDER AUTHORIZATION NUMBER 12-NF-0347/201261346, APPROVAL DATE: OCTOBER 2, 2012.
  - DEVELOPER WILL BE RESPONSIBLE FOR THE COST OF THE SCHOOL FLASHER RELOCATION - CONTACT HOWARD COUNTY TRAFFIC (410-313-5752) FOR DETAILS.

R-11-023 MICHAEL PROPERTY DWS11-023 RP-SUPP2.DWG

Project	JUL 2013	engineering	JLS	approval
11-028				
Illustration				
Scale				1" = 50'
Approval				

	date
	description
	revisions
	no.

ROCKBURN VIEW LOTS 54 THRU 61 AND O.S. LOT 62  
RESUBDIVISION OF LOT 32 (6090 MONTGOMERY ROAD, ELKBRIDGE, MD)  
TAX MAP: 37 PARCEL: 563  
HOWARD COUNTY, MARYLAND

COVER SHEET

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

1 OF 6

F-12-077



DISTURBED AREAS WITH PROPOSED SLOPES 3:1 (H/V) AND STEEPER WITH A MINIMUM VERTICAL HEIGHT OF 5 FEET ARE TO BE STABILIZED IMMEDIATELY WITH SOD.

ALL MICRO-BIOTENTION FACILITIES (M-6) WILL BE PRIVATELY OWNED AND MAINTAINED.

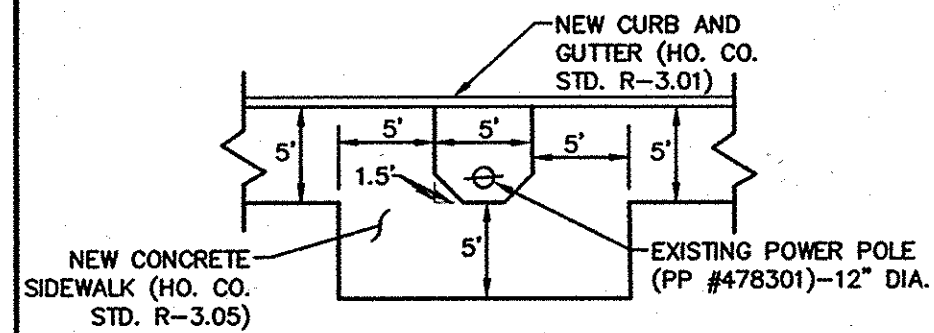
THE EXISTING DETACHED GARAGE MUST BE REMOVED PRIOR TO SUBMISSION OF THE FINAL PLAT ORIGINALS. PROOF OF THE REMOVAL OF THE GARAGE IS REQUIRED WITH THE SUBMISSION OF THE FINAL PLAT ORIGINALS.

THE USE-IN-COMMON DRIVEWAY SECTION SHALL BE CONSTRUCTED PER HO. CO. STD. R-6.01. DRIVEWAY WIDTH AND PAVEMENT SECTION SHOWN ON THIS PLAN SHALL SUPERCEDE WIDTH AND PAVING SECTION SHOWN ON R-6.02.

CONCRETE SIDEWALK AND CURB AND GUTTER TO TRANSITION AT USE-IN-COMMON DRIVEWAY PER HO. CO. STD. R-6.02.

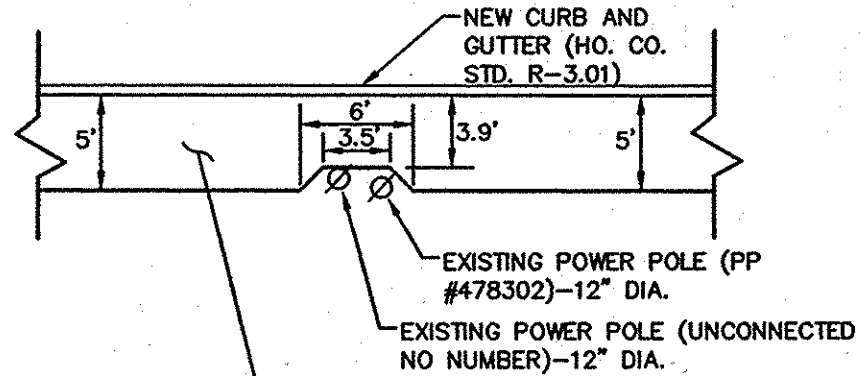
UNDERDRAINS FROM MICRO-BIOTENTION FACILITIES SHALL DISCHARGE ONTO UNDISTURBED GROUND.

**MONTGOMERY ROAD**



**NEW SIDEWALK DETAIL (STA 0+98)**  
SCALE: 1"=10'

**MONTGOMERY ROAD**



**NEW SIDEWALK DETAIL (STA 2+64)**  
SCALE: 1"=10'

**OWNER / DEVELOPER**

DORSEY FAMILY HOMES, INC.  
10717-B BIRMINGHAM WAY  
WOODSTOCK, MARYLAND 21163  
(410)465-7200

**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: Jeffrey Slovan, PE  
DATE: 7/2/13

**DEVELOPER'S 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 CONDUCT PERIODIC ON-SITE INSPECTIONS.

Signature of Developer: Robert Dorsey, Jr.  
DATE: 7-15-13

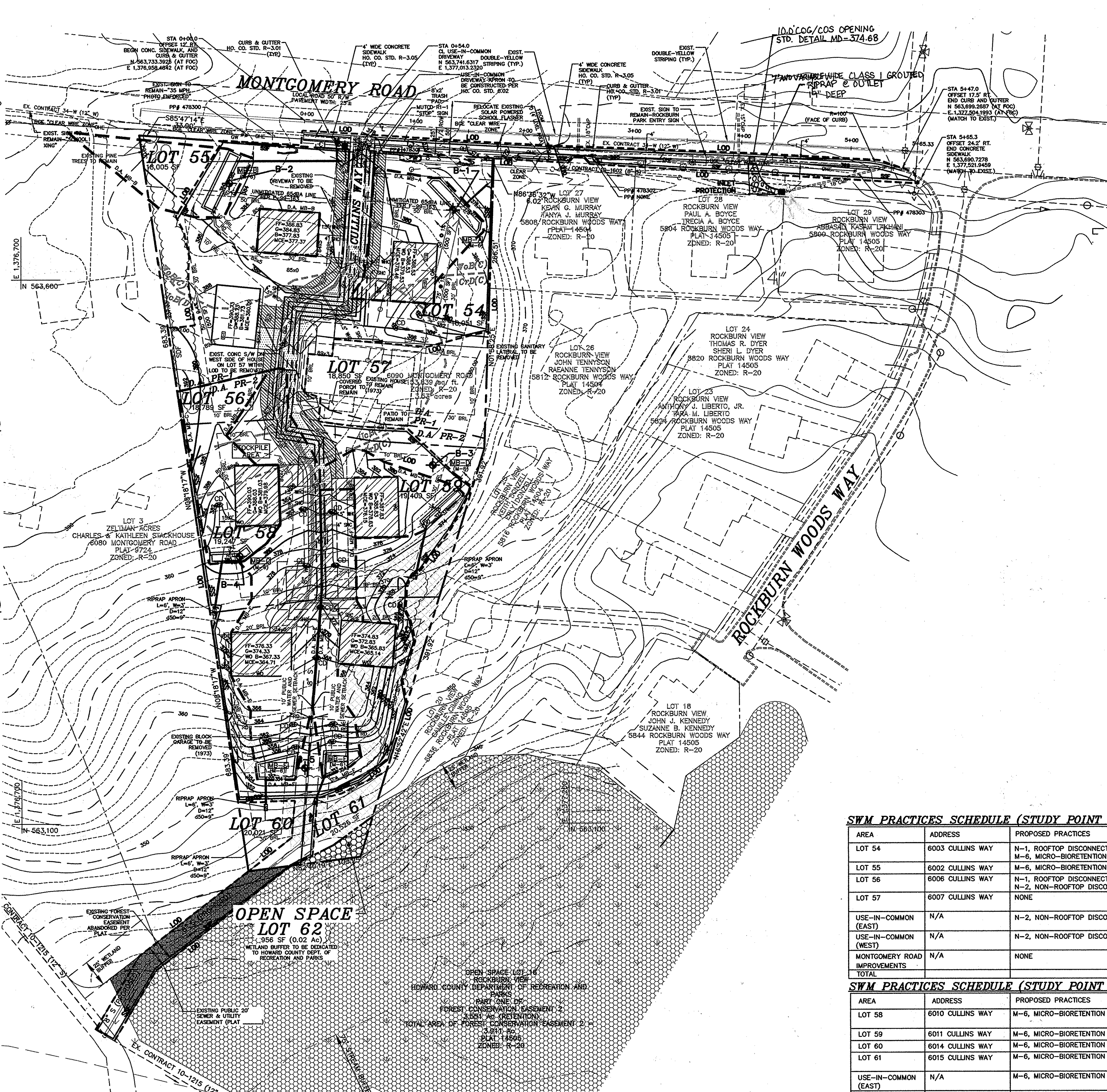
ROBERT DORSEY, JR., PRESIDENT, DORSEY FAMILY HOMES, INC.  
PRINTED NAME OF DEVELOPER

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

Signature of District: Howard Soil Conservation District  
DATE: 7/23/13

Signature of Department of Public Works: Chief, Bureau of Highways  
DATE: 8-1-13

Signature of Department of Planning and Zoning: Chief, Development Engineering Division  
DATE: 8/5/13  
Signature of Department of Planning and Zoning: Chief, Division of Land Development  
DATE: 8/6/13



**LEGEND**

- IMPERVIOUS AREA TREATED BY N-2, NON-ROOFTOP DISCONNECTION
- AREA OF N-2, NON-ROOFTOP DISCONNECTION
- IMPERVIOUS AREA TREATED BY M-6, MICRO-BIOTENTION AND/OR N-1, ROOFTOP DISCONNECTION
- N-1, ROOFTOP DISCONNECTION FLOW PATH WITH LENGTH, SLOPE, AND TREATED AREA
- LIMITS OF EXISTING FOREST CONSERVATION EASEMENT PER F-99-163 (PLAT 14503)
- LIMITS OF PROPOSED FOREST CONSERVATION EASEMENT AND OPEN SPACE TO BE DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS (958 SF / 0.02 AC)
- LIMITS OF EXISTING FOREST CONSERVATION EASEMENT TO BE ABANDONED (3,974 SF / 0.09 AC)
- LIMITS OF EXISTING WETLAND PER F-99-163 (PLAT 14503)

**16. STANDARDS AND SPECIFICATIONS FOR DUST CONTROL**

Definition: Controlling the suspension of dust particles from construction activities.

Purpose: To prevent blowing and movement of dust from exposed soil surfaces to reduce on and off-site damage including health and traffic hazards.

Conditions Where Practice Applies: Areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Specification:

- Mulching: See Section B-4.2 Soil Preparation, Topsoiling, and Soil Amendment, Section B-4.3 Seeding and Mulching, and Section B-4.4 Temporary Stabilization. Mulch must be anchored to prevent blowing.
- Vegetative Cover: See Section B-4.4 Temporary Stabilization.
- Tilling: Till to roughen surface and bring clods to the surface. Begin plowing on windward side of site. Chiselage plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.
- Matting: Sprinkle site with water until the surface is moist. Repeat as needed. The site must not be irrigated to the point that mud occurs.
- Barriers: Solid board fences, silt fences, snow fences, brush fences, straw bales, and similar material can be used to control dust currents and soil blowing.
- Chemical Treatment: Use of chemical treatment requires approval by the appropriate plan review authority.

**SWM PRACTICES SCHEDULE (STUDY POINT 1-NORTH)**

AREA	ADDRESS	PROPOSED PRACTICES	REQUIRED ESDv / TARGET ESDv	PROVIDED ESDv	REQ'D Pe	PROVIDED Pe
LOT 54	6003 CULLINS WAY	N-1, ROOFTOP DISCONNECTION M-6, MICRO-BIOTENTION (MB-A)	304 CF (TARGET)	769 CF		
LOT 55	6002 CULLINS WAY	M-6, MICRO-BIOTENTION (MB-B)	285 CF (TARGET)	843 CF		
LOT 56	6006 CULLINS WAY	N-1, ROOFTOP DISCONNECTION N-2, NON-ROOFTOP DISCONNECTION	285 CF (TARGET)	57 CF		
LOT 57	6007 CULLINS WAY	NONE	76 CF (TARGET)	0		
USE-IN-COMMON (EAST)	N/A	N-2, NON-ROOFTOP DISCONNECTION	285 CF (TARGET)	208 CF		
USE-IN-COMMON (WEST)	N/A	N-2, NON-ROOFTOP DISCONNECTION	285 CF (TARGET)	208 CF		
MONTGOMERY ROAD IMPROVEMENTS	N/A	NONE	380 CF (TARGET)	0		
TOTAL			1,901 CF (REQ'D)	2,085 CF	1.20"	1.32"

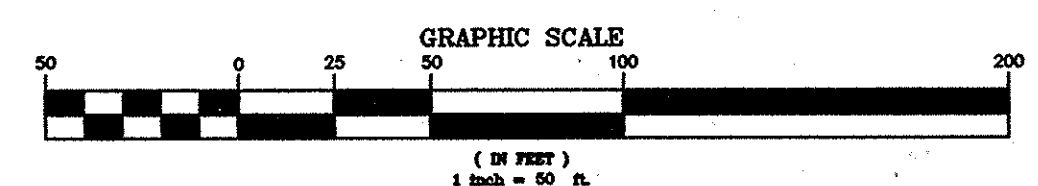
**SWM PRACTICES SCHEDULE (STUDY POINT 2-SOUTH)**

AREA	ADDRESS	PROPOSED PRACTICES	REQUIRED ESDv / TARGET ESDv	PROVIDED ESDv	REQ'D Pe	PROVIDED Pe
LOT 58	6010 CULLINS WAY	M-6, MICRO-BIOTENTION (MB-C)	309 CF (TARGET)	404 CF		
LOT 59	6011 CULLINS WAY	M-6, MICRO-BIOTENTION (MB-D)	298 CF (TARGET)	471 CF		
LOT 60	6014 CULLINS WAY	M-6, MICRO-BIOTENTION (MB-E)	333 CF (TARGET)	791 CF		
LOT 61	6015 CULLINS WAY	M-6, MICRO-BIOTENTION (MB-F)	278 CF (TARGET)	695 CF		
USE-IN-COMMON (EAST)	N/A	M-6, MICRO-BIOTENTION (MB-E)	344 CF (TARGET)	SEE LOT 46		
USE-IN-COMMON (WEST)	N/A	M-6, MICRO-BIOTENTION (MB-F)	345 CF (TARGET)	SEE LOT 47		
TOTAL			1,908 CF (REQ'D)	2,361 CF	1.20"	1.48"

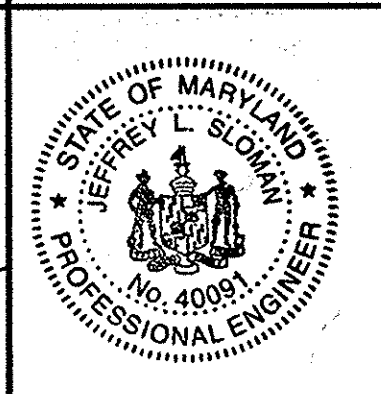
\* BY DESIGNING ESD MEASURES FOR "WOODS IN GOOD CONDITION", Cp REQUIREMENTS ARE MET  
\*\* STORMWATER MANAGEMENT QUANTITY CONTROL FOR THE 10- AND 100-YEAR (Qp, Qf) STORM EVENTS IS NOT REQUIRED.

**MONTGOMERY ROAD - STREET LIGHT SCHEDULE**

SYMBOL	DESCRIPTION	LOCATION
★	150 WATT HPS PRIMERE POST-TOP FIXTURE MOUNTED ON A 14" BLACK FIBERGLASS POLE	STA 0+38.0 OFFSET: 20.0' R



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. 40091, EXP DATE 2/13/15.  
7/2/13  
JEFFREY SLOVAN, P.E. DATE



Project: JUL 2013  
Date: 11-023  
Project: engineering  
Illustration: JLS  
Scale: 1"=60'  
Approval: RJH

App: SHA COS STRUCTURE TO ROAD WIDENING  
Description: revisions  
Date: JAW Zme

ROCKBURN VIEW LOTS 54 THRU 61 AND O.S. LOT 62  
RESUBDIVISION OF LOT 32 (6090 MONTGOMERY ROAD, ELKBRIDGE, MD)  
TAX MAP: 37 PARCEL: 563  
FIRST ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SUPPLEMENTAL, STORMWATER MANAGEMENT AND ROAD IMPROVEMENT PLAN

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
6800 Deepwater Road, Suite 100, Elkridge, Maryland 21075  
(410) 997-0236 Bot. (410) 997-0298 Fax.

2 OF 6  
F-12-077



**LEGEND**

- LIMITS OF EXISTING FOREST CONSERVATION EASEMENT PER F-99-163 (PLAT 14503)
- LIMITS OF PROPOSED FOREST CONSERVATION EASEMENT AND OPEN SPACE TO BE DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS (956 SF / 0.02 Ac)
- LIMITS OF EXISTING FOREST CONSERVATION EASEMENT TO BE ABANDONED (3,974 SF / 0.09 Ac)
- LIMITS OF EXISTING WETLAND PER F-99-163 (PLAT 14503)

**OWNER / DEVELOPER**

DORSEY FAMILY HOMES, INC.  
10717-B BIRMINGHAM WAY  
WOODSTOCK, MARYLAND 21163  
(410)465-7200

**DEVELOPERS / BUILDERS CERTIFICATE**

I / WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE, AND THE HOWARD COUNTY LANDSCAPE MANUAL. I / WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*[Signature]* 7-5-13  
SIGNATURE OF DEVELOPER DATE

ROBERT DORSEY, JR.  
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 HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 7/2/13  
SIGNATURE OF ENGINEER DATE

JEFFREY SLOMAN, PE  
PRINTED NAME OF ENGINEER

**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 CONDUCT PERIODIC ON-SITE INSPECTION.

*[Signature]* 7-5-13  
SIGNATURE OF DEVELOPER DATE

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

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

*[Signature]* 7/25/13  
APPROVED: DEPARTMENT OF PUBLIC WORKS DATE

*[Signature]* 8-1-13  
CHIEF, BUREAU OF HIGHWAYS DATE

*[Signature]* 8/5/13  
APPROVED: DEPARTMENT OF PLANNING AND ZONING DATE

*[Signature]* 8/26/13  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]*  
DIRECTOR



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. 40091, EXP DATE 2/13/15

*[Signature]* 7/2/13  
JEFFREY SLOMAN, P.E. DATE



**STREET TREE PLANTING SCHEDULE**

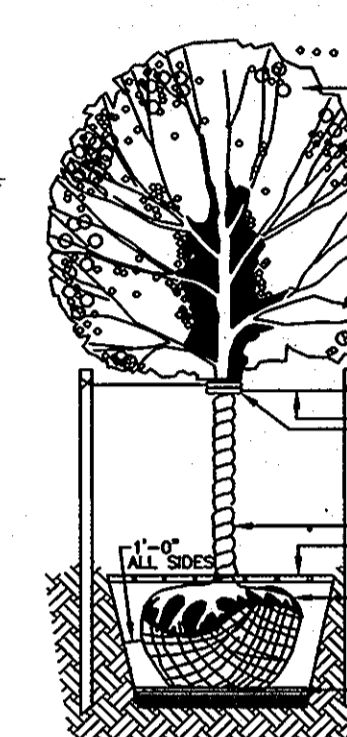
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
19		ACER GRISEUM OR EQUIVALENT	PAPERBARK MAPLE OR EQUIVALENT	2-1/2" - 3" CAL.
TOTAL				
19 TREES			ANY 'EQUIVALENT' STREET TREE MUST HAVE A MATURE HEIGHT OF 25 FEET OR LESS	

**STREET TREE CALCULATIONS**

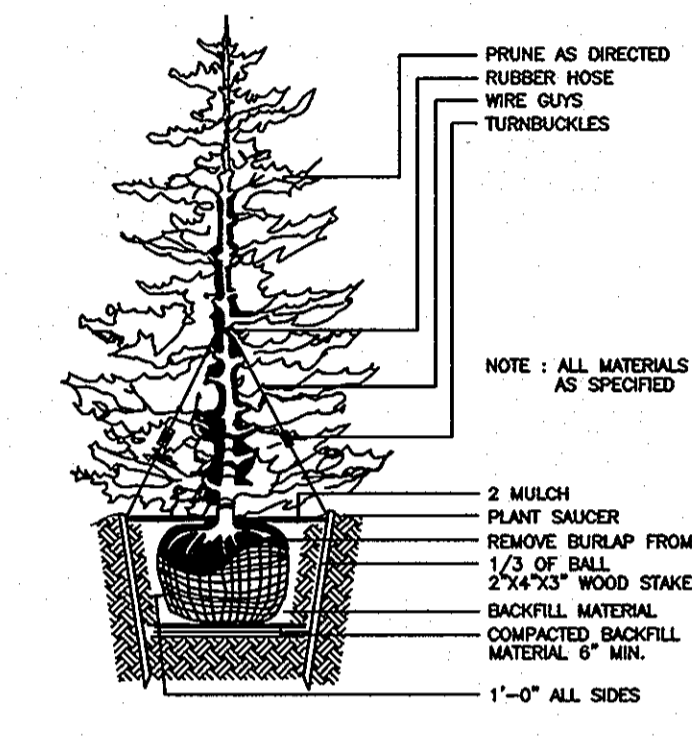
MONTGOMERY ROAD - 565 LF / 30 = 18.8  
TOTAL TREES REQUIRED = 19 TREES  
TOTAL TREES PROVIDED = 19 TREES



**TYPICAL SHRUB PLANTING DETAIL**  
NOT TO SCALE



**DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE



**TYPICAL EVERGREEN TREE PLANTING DETAIL**  
NOT TO SCALE

**PERIMETER LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
26		ACER RUBRUM 'RED SUNSET' OR EQUIVALENT	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
3		ACER GRISEUM	PAPERBARK MAPLE	2 1/2" - 3" CAL.
3		ILEX OPACA	AMERICAN HOLLY	5' - 6' HT.
10		TAXUS MEDIA 'HICKSI'	HICKS YEW OR EQUIVALENT	2 1/2" - 3" HT.
TOTAL				
32 TREES (29 SHADE TREES, 3 EVERGREENS), 10 SHRUBS				

DISTURBED AREAS WITH PROPOSED SLOPES 3:1 (H/V) AND STEEPER WITH A MINIMUM VERTICAL HEIGHT OF 5 FEET ARE TO BE STABILIZED IMMEDIATELY WITH SOD.

ALL MICRO-BIORETENTION FACILITIES (M-6) WILL BE PRIVATELY OWNED AND MAINTAINED.

**LANDSCAPE NOTES**

- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- THE OWNER, TENANT AND / OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, PLANT MATERIALS, BERM, FENCES, AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH CREDIT IS GIVEN, BE REMOVED OR DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.

**SCHEDULE A - PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO ROADWAYS				ADJACENT TO PERIMETER PROPERTIES		TRASH PAD	TOTAL
	B (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	A (PERIMETER 4)	A (PERIMETER 5)	C		
LANDSCAPE TYPE								
LINEAR FEET OF PERIMETER	109.00 LF	684 LF	127 LF	353 LF	267 LF		16 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	N/A	YES, 74 LF	YES, 74 LF	YES, 15 LF	NO		N/A	N/A
NUMBER OF PLANTS REQUIRED								
SHADE TREES	3	11	1	6	5	0	26	26
EVERGREEN TREES	3	0	0	0	1	0	4	4
SHRUBS	0	0	0	0	0	0	0	0
CREDIT FOR EXISTING VEGETATION								
SHADE TREES	N/A	N/A	N/A	N/A	N/A		N/A	N/A
EVERGREEN TREES								
NUMBER OF PLANTS PROVIDED								
SHADE TREES	3	11	1	9	5	0	29	29
EVERGREEN TREES	3	0	0	0	0	0	3	3
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	0	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0	0	10	10	10

NOTE: THREE (3) ADDITIONAL SHADE TREES HAVE BEEN ADDED ALONG PERIMETER 4 AS ENHANCED LANDSCAPING TO ADDRESS CONCERNS REGARDING SCREENING THAT WERE INTRODUCED DURING THE PRE-SUBMISSION COMMUNITY MEETING BY THE OWNER OF LOT 20 OF ROCKBURN VIEW

R-11-023 MICHAEL PROPERTY DWS11-023 RP-SUPP2.DWG

Project: 11-023, Date: NOV 2012, Scale: 1"=50'

Rockburn View Lots 54 thru 61 and O.S. Lot 62, Resubdivision of Lot 32 (6090 Montgomery Road, Elkridge, MD)

First Election District, Howard County, Maryland

MILDENBERG, BOENDER & ASSOC., INC. (410) 997-0286 Fax

3 OF 6



**GEOTECHNICAL ENVIRONMENTAL TESTING CONSULTANTS, INC.**  
 P.O. Box 2071  
 Columbia, MD 21045-2071  
 Phone: (410) 381-5330  
 Fax: (410) 381-1064  
 e-mail: mouni54@yahoo.com

February 20, 2012

Mildenberg, Boender & Associates, Inc.  
 6800 Deerpath Road, Suite 15  
 Elkridge, Maryland 21075

Attn: Mr. R. Jacob Hikmat, P.E.  
 President

Ref: Limited Subsurface Exploration  
 Proposed Residential Buildings  
 Rockburn View, Lot 49 thru 47  
 Howard County, Maryland  
 GE&T Project No. G-208

Gentlemen:

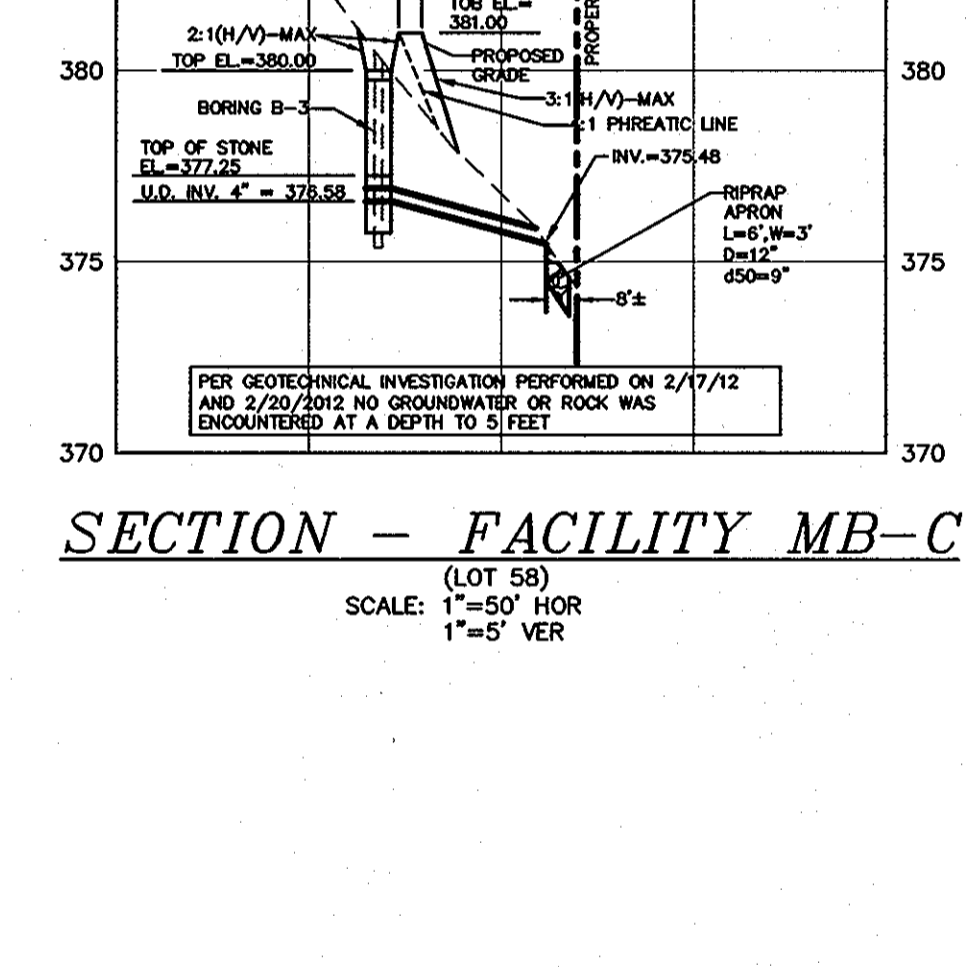
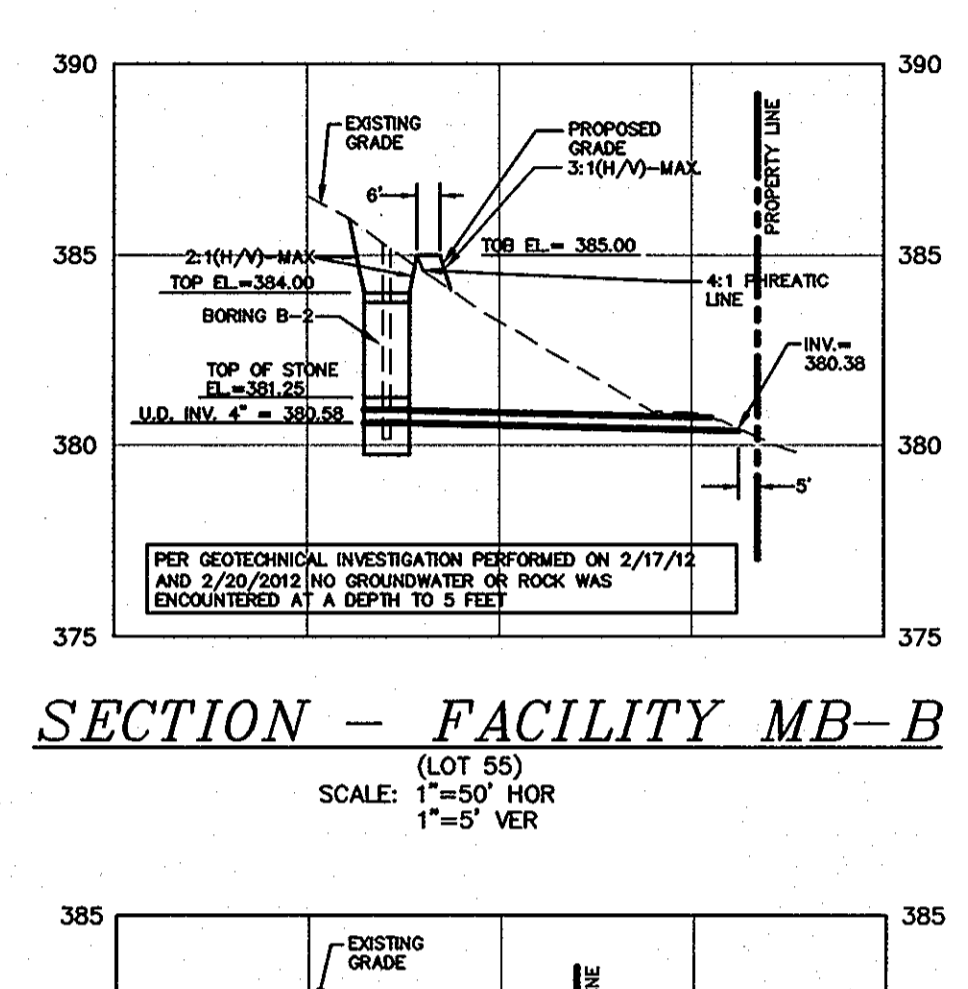
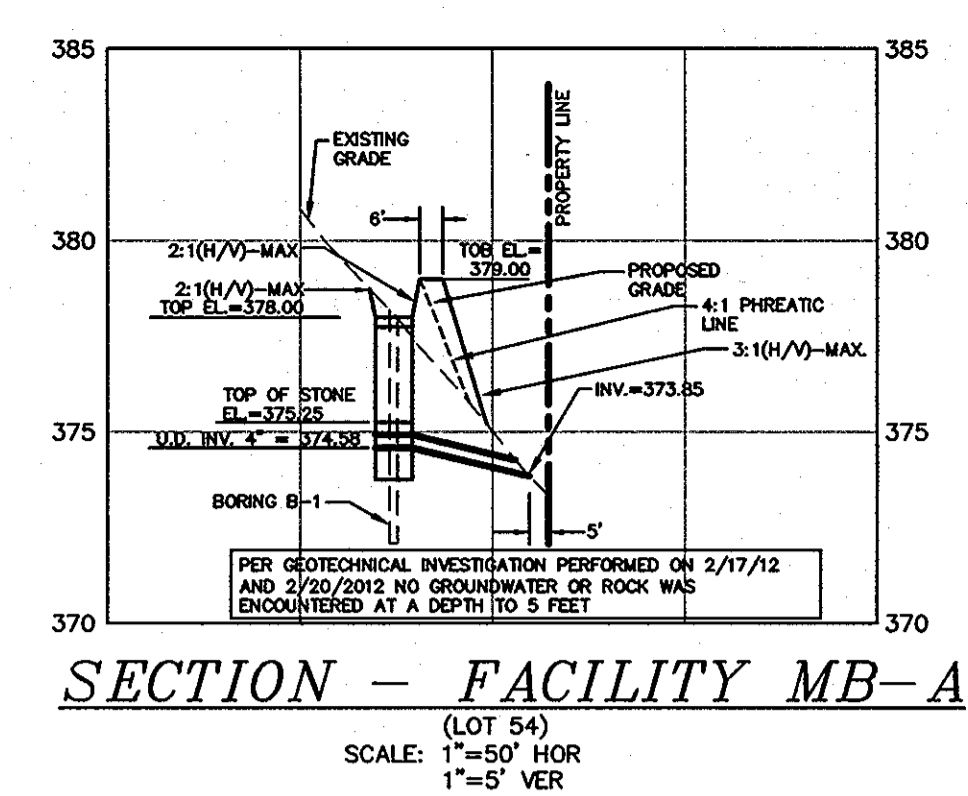
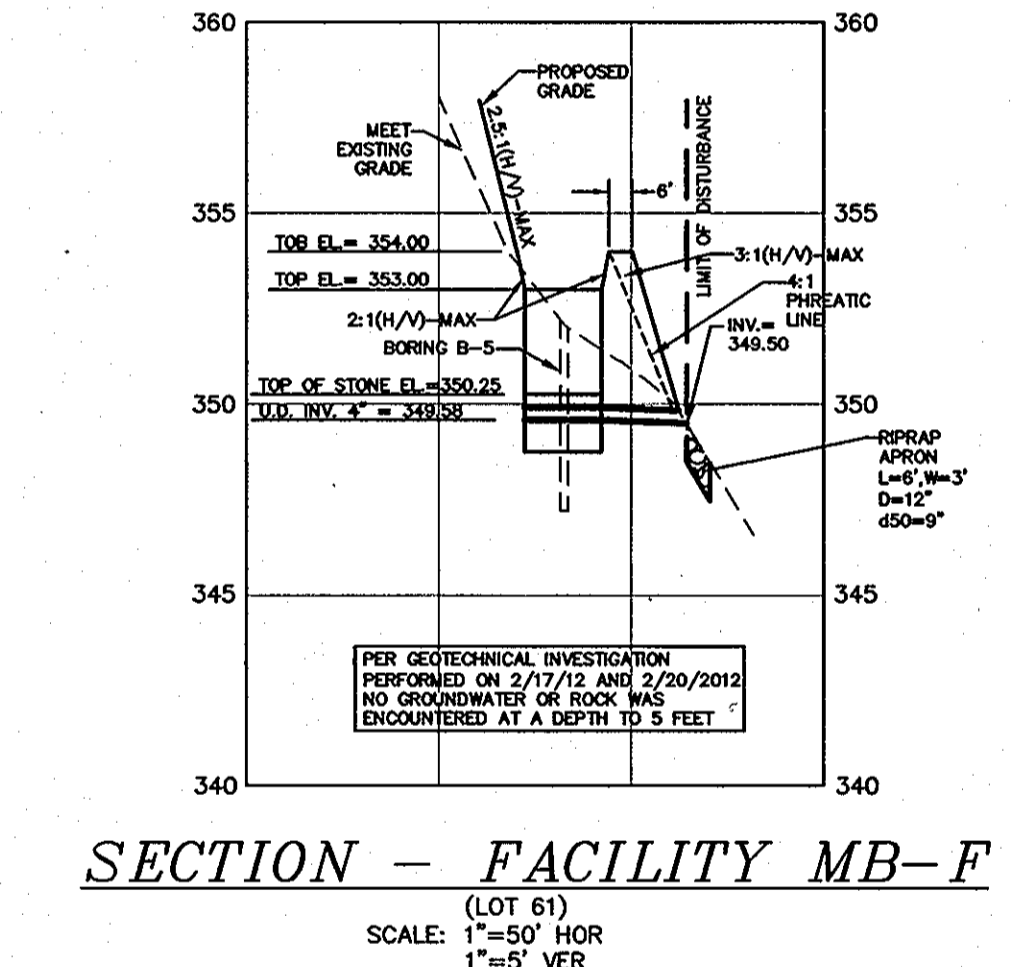
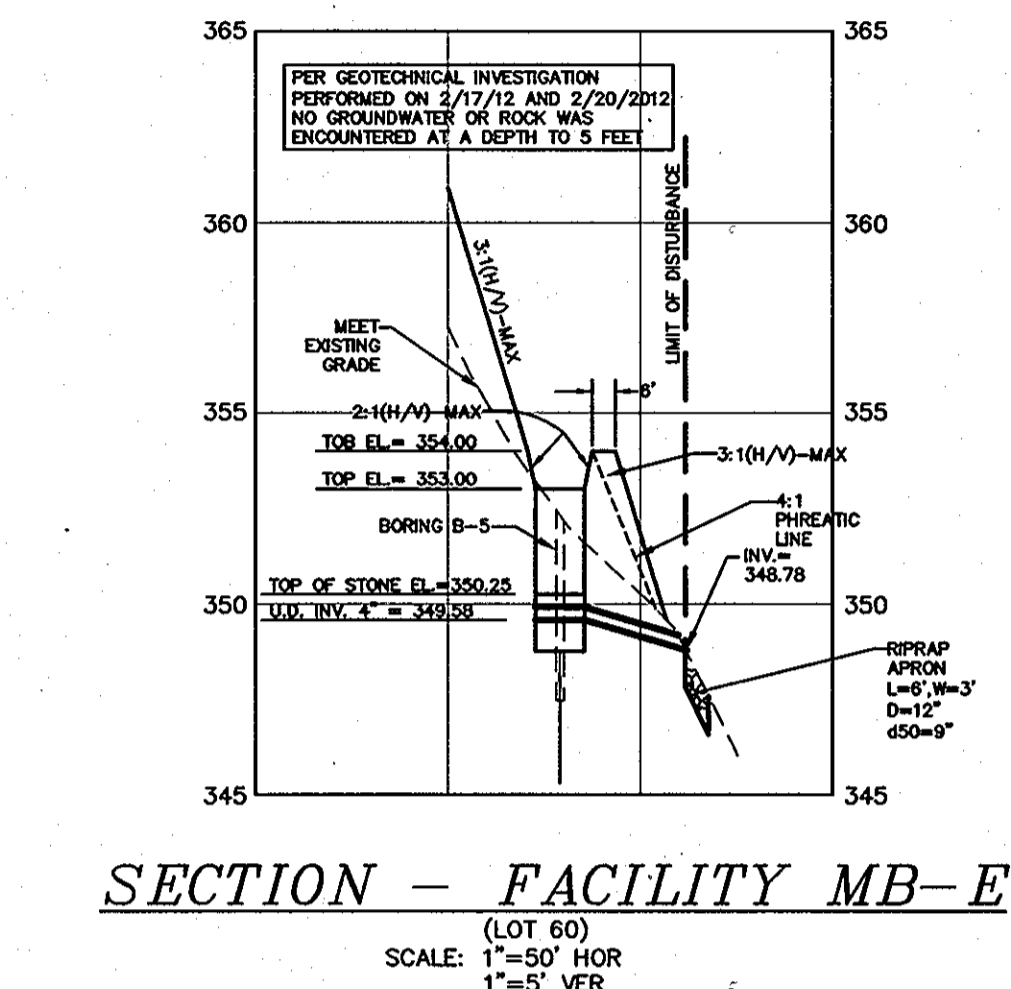
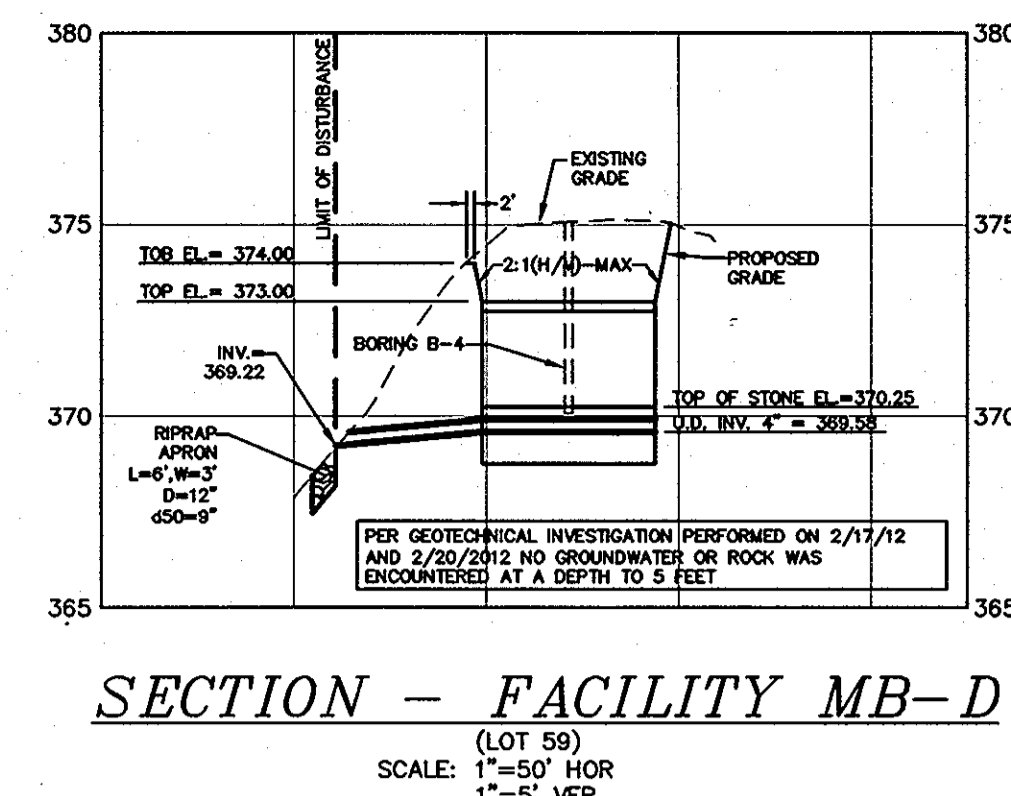
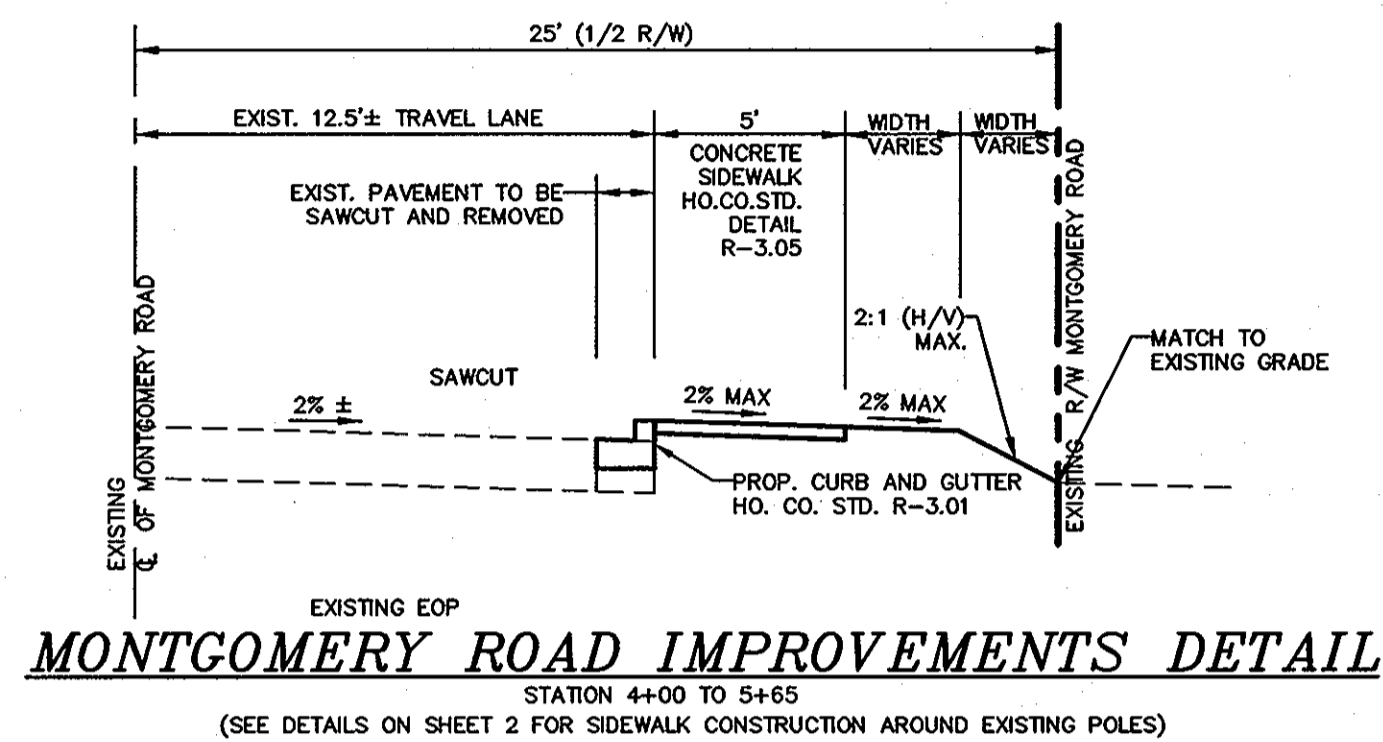
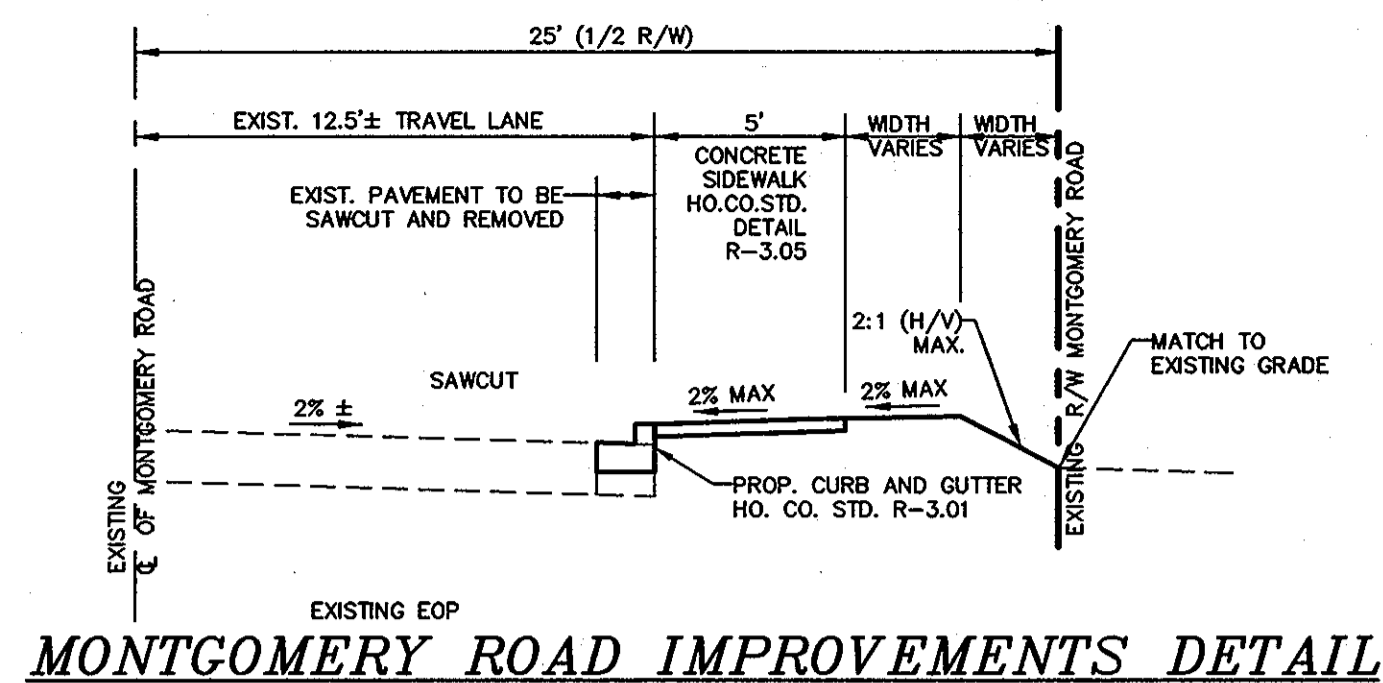
On February 17 and 20, 2012, GE&T Consultants, Inc. utilized hand augers and a Tripod to bore five (5) soil borings at the approximate locations shown on the attached sheet. The purpose of the borings was to evaluate the presence/absence of bedrock and groundwater at the locations shown. The number, location, and depth of the borings were determined by others and the borings were staked-out in the field by others.

Our field observations are summarized in Table 1 below:

Boring No.	Depth to Groundwater (ft)	Depth to Refusal (ft)	Termination Depth (ft)
B-1	N/A	N/A	6.0
B-2	N/A	N/A	5.0
B-3	N/A	N/A	5.0
B-4	N/A	N/A	5.0
B-5	N/A	N/A	5.0

Note: All depths are below existing ground surface.

It should be noted that the actual level of groundwater and the amount and level of perched water



**OWNER / DEVELOPER**

DORSEY FAMILY HOMES, INC.  
 10717-B BIRMINGHAM WAY  
 WOODSTOCK, MARYLAND 21163  
 (410)465-7200

**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.

*Jeffrey L. Sloman* 7/2/13  
 SIGNATURE OF ENGINEER DATE  
 JEFFREY SLOMAN, PE  
 PRINTED NAME OF ENGINEER

**DEVELOPER'S 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 CONDUCT PERIODIC ON-SITE INSPECTION.

*Robert Dorsey, Jr.* 7-15-13  
 SIGNATURE OF DEVELOPER DATE  
 ROBERT DORSEY, JR., PRESIDENT, DORSEY FAMILY HOMES, INC.  
 PRINTED NAME OF DEVELOPER

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

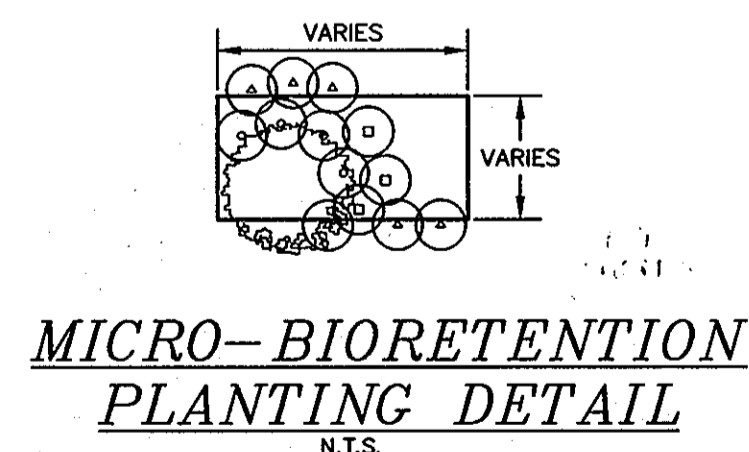
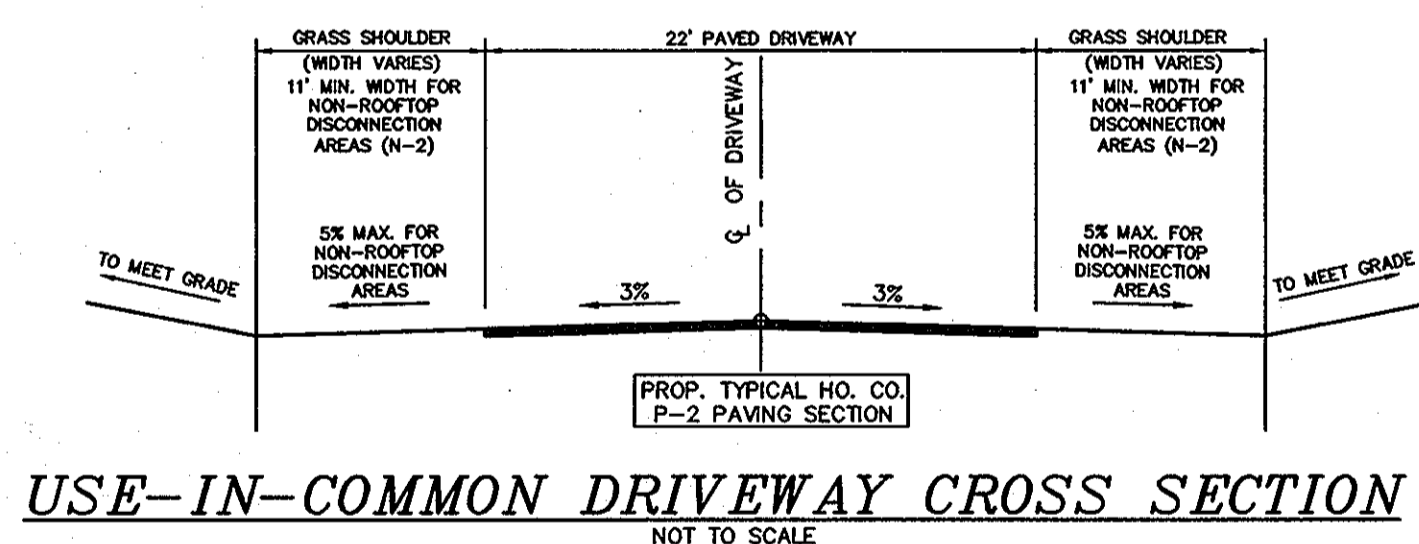
*John R. Platon* 7/25/13  
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*William A. Williams* 8-1-13  
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Jeffrey L. Sloman* 8/15/13  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Jeffrey L. Sloman* 8/16/13  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

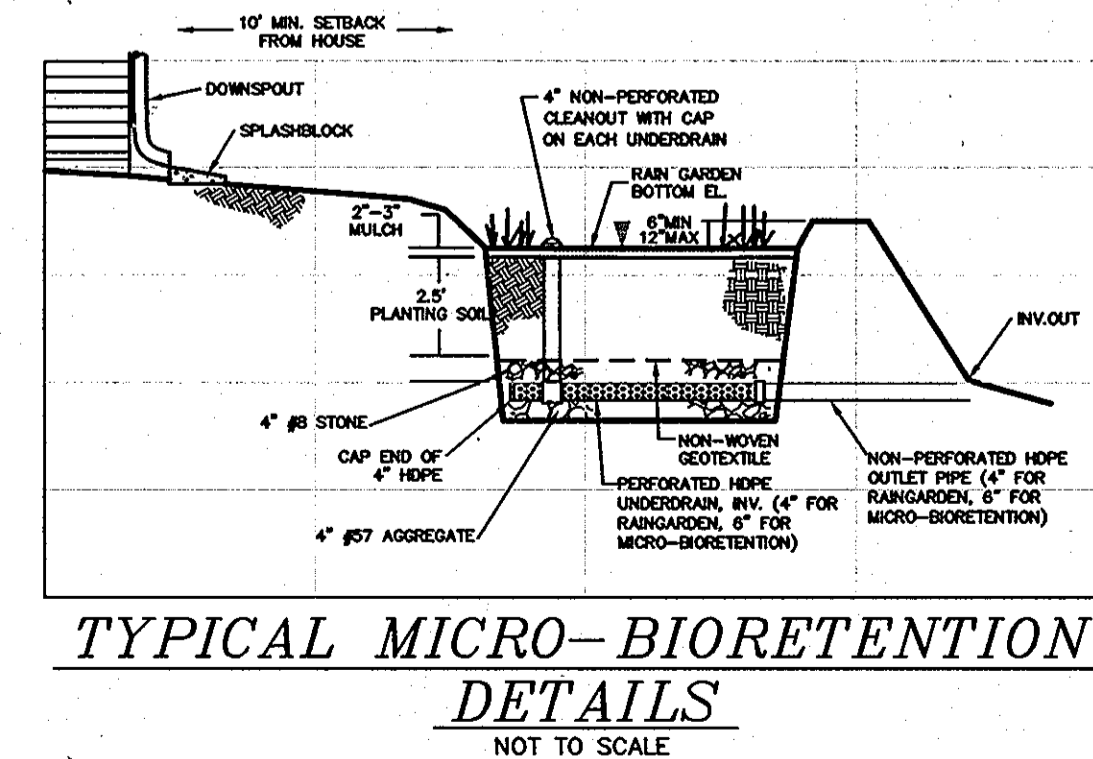
DIRECTOR



**PLANT LIST**

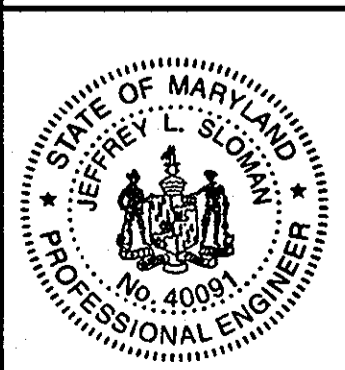
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1	○	ILEX GLABRA	INK BERRY	2 - 3' HT.
6	⊙	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
4	⊙	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
3	⊙	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

TOTAL: 13 PERENNIALS, 1 SHRUB



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. 40091, EXP DATE 2/13/15

*Jeffrey L. Sloman* 7/2/13  
 JEFFREY SLOMAN, P.E. DATE

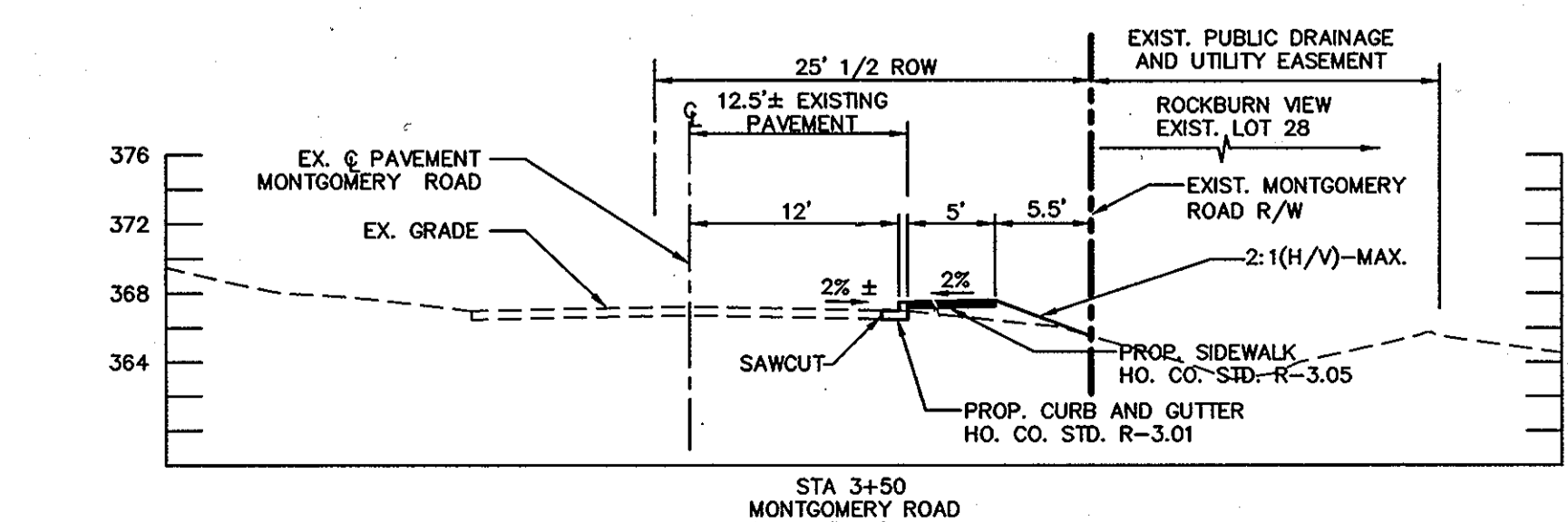
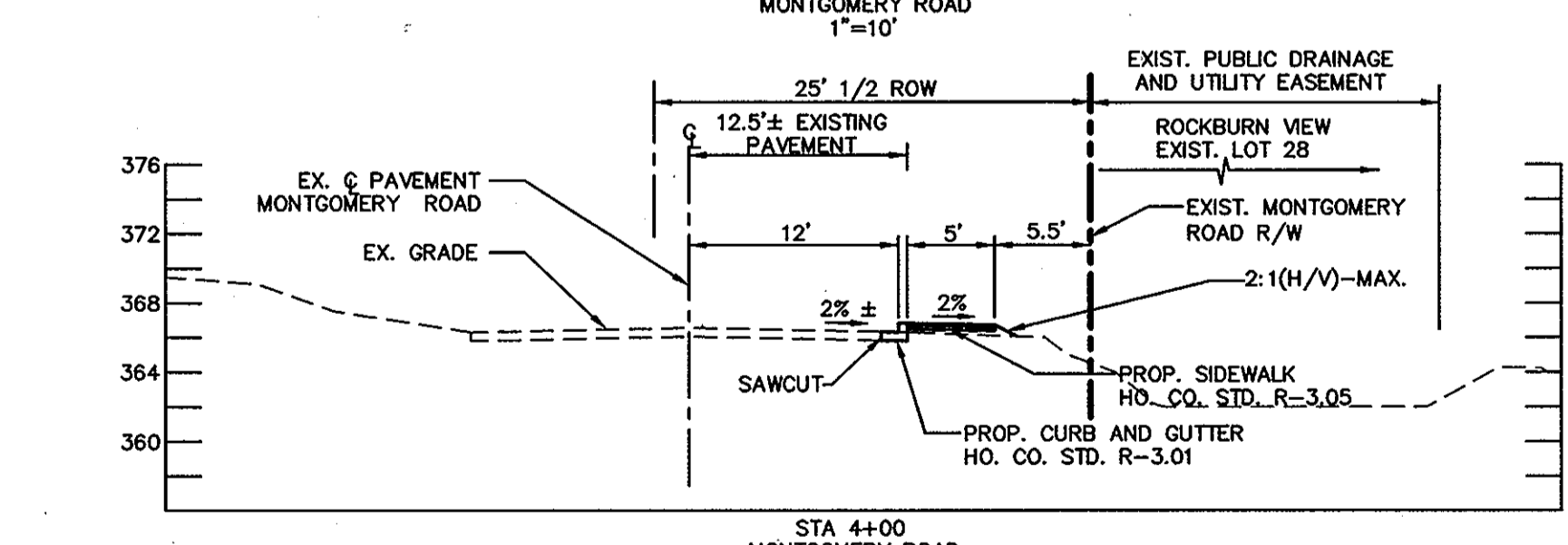
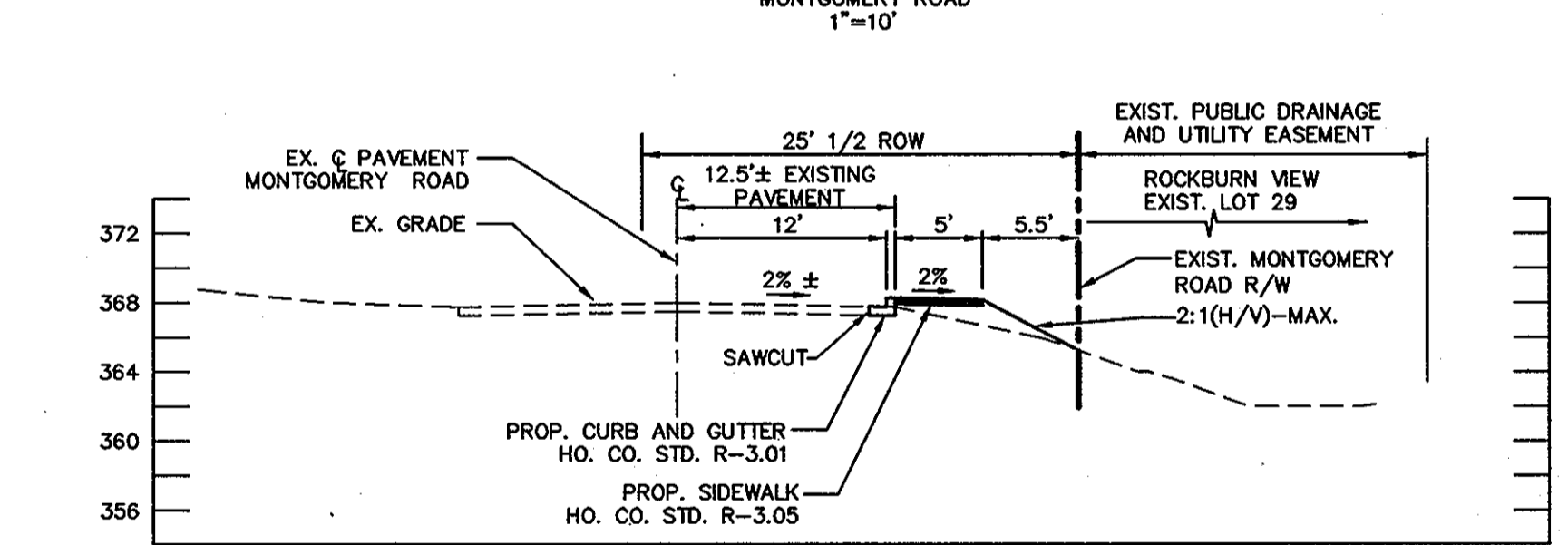
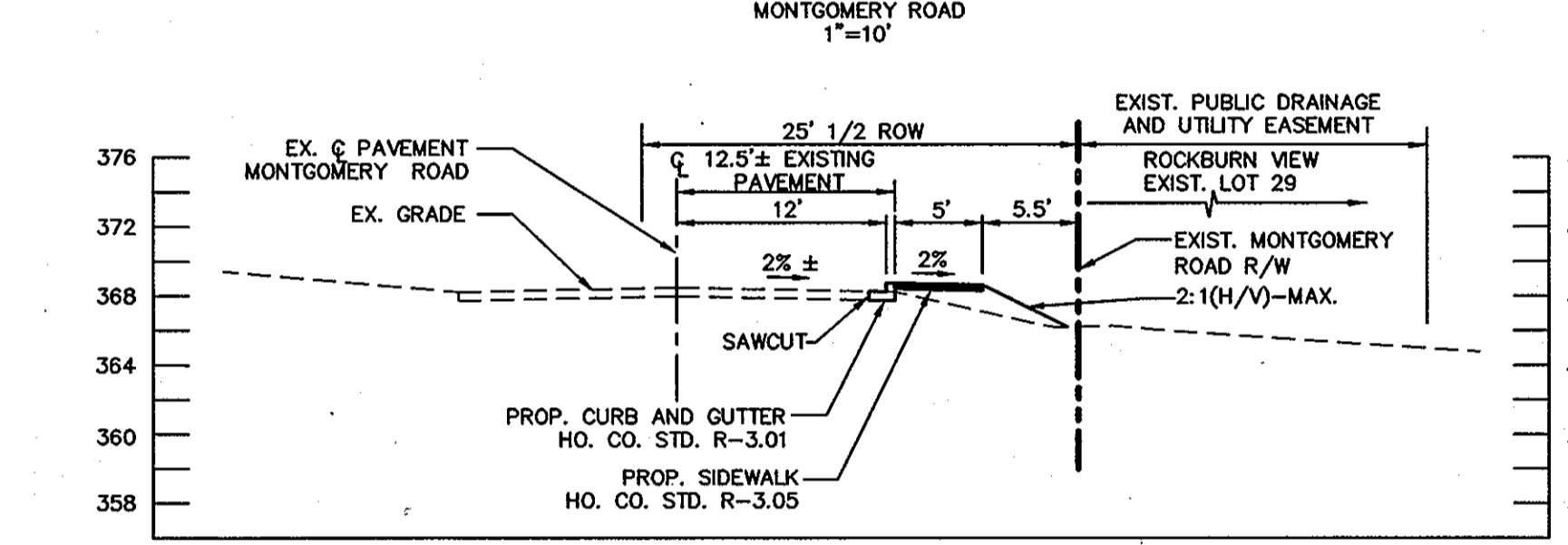
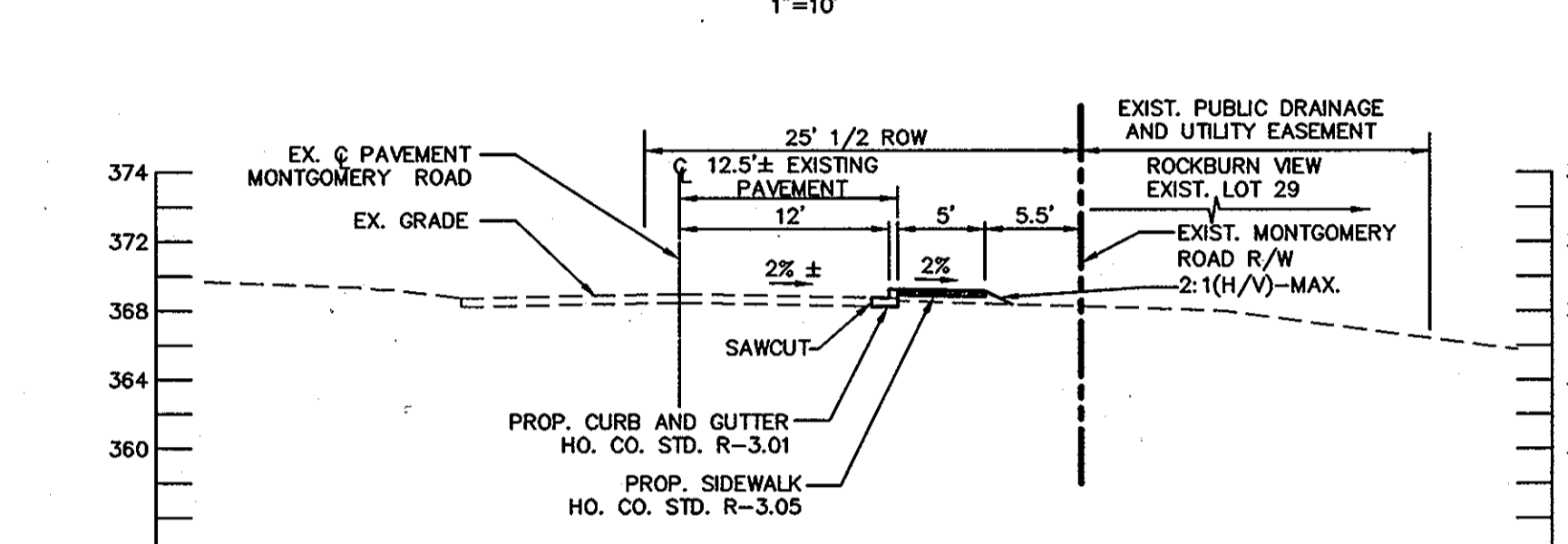
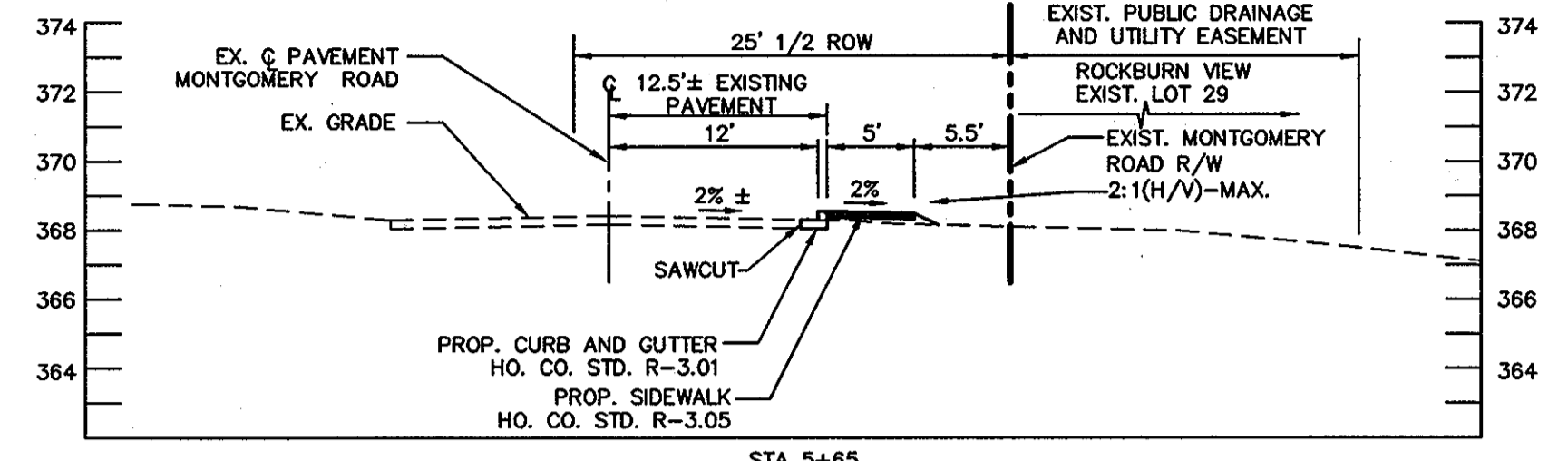
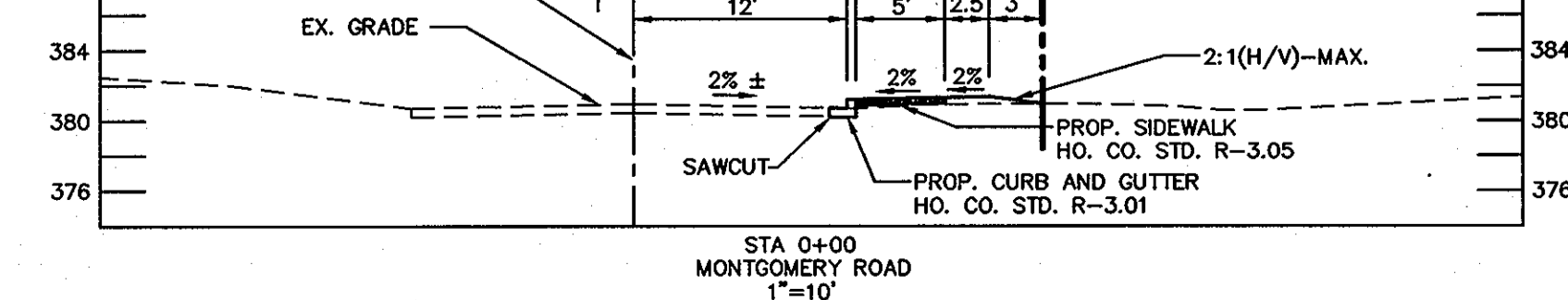
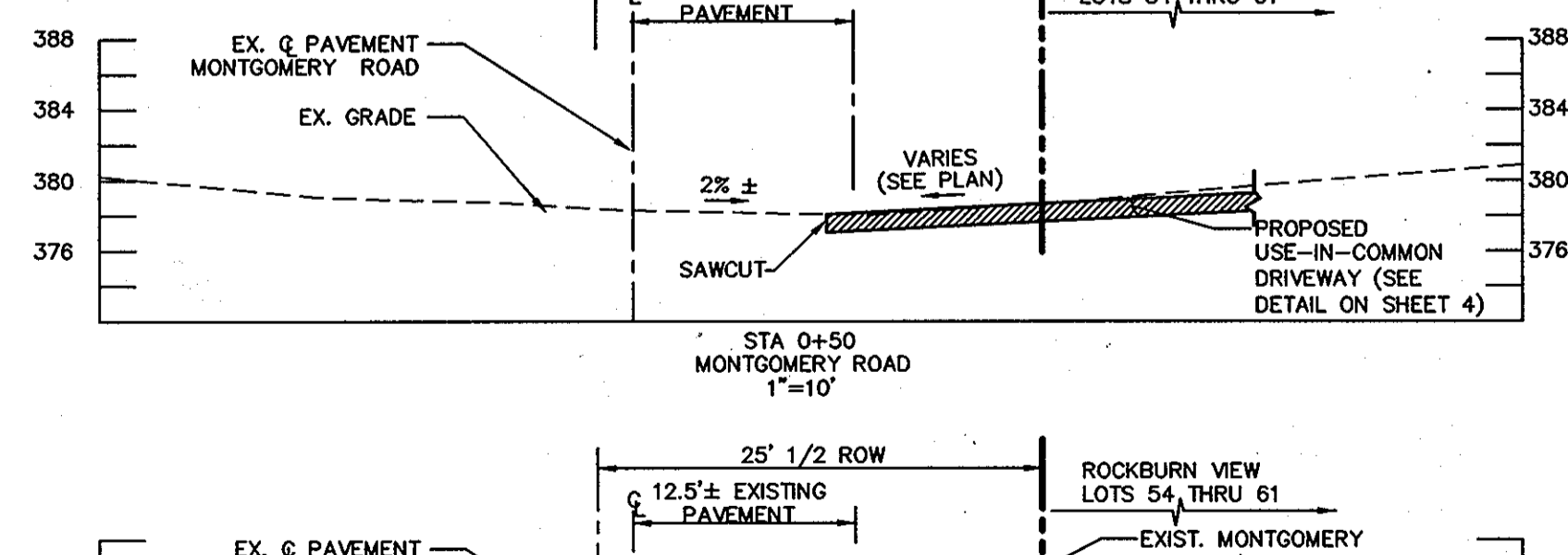
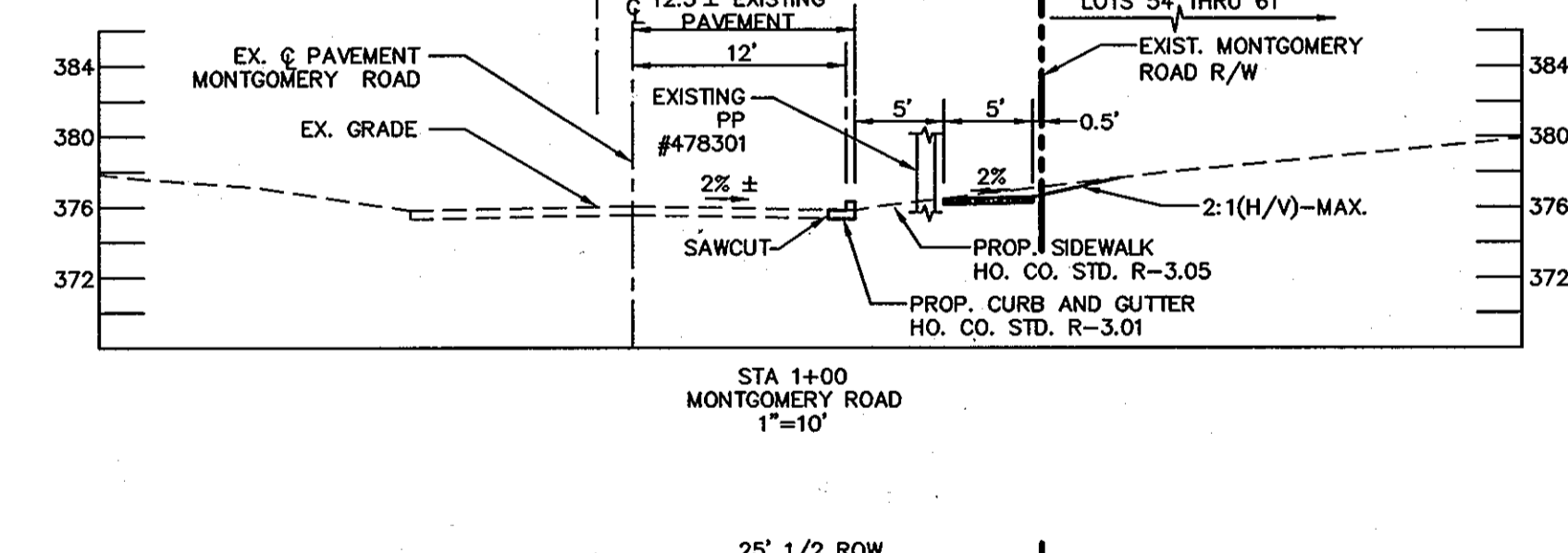
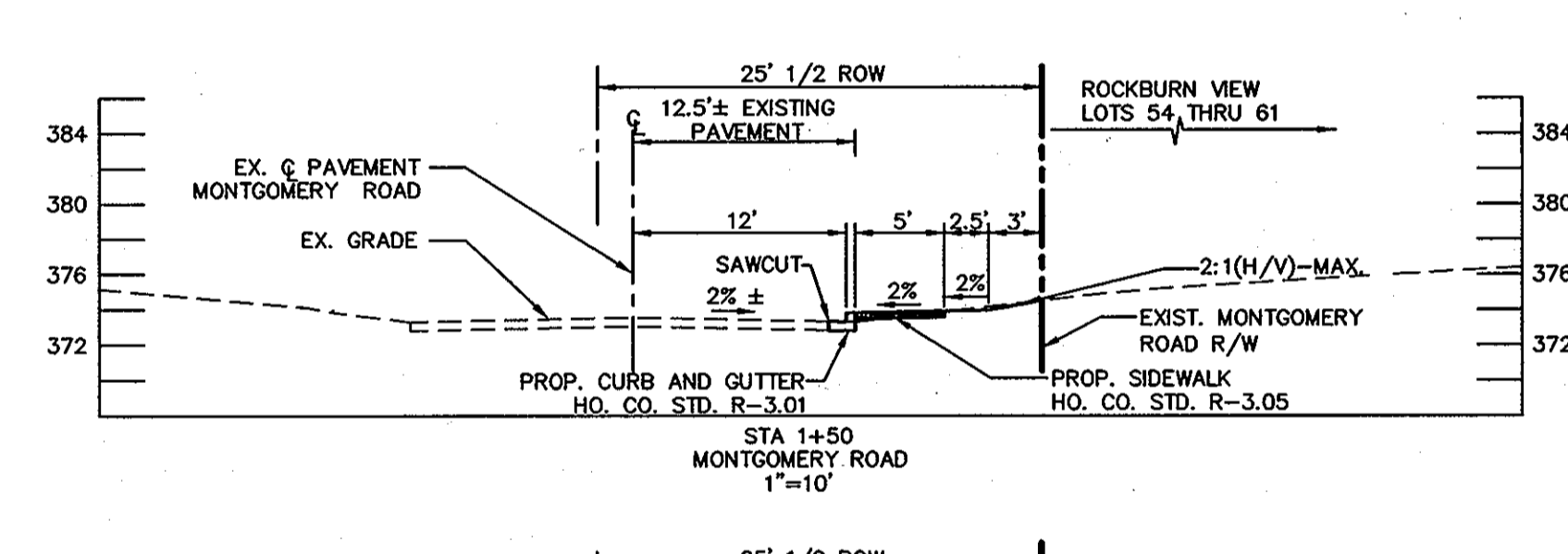
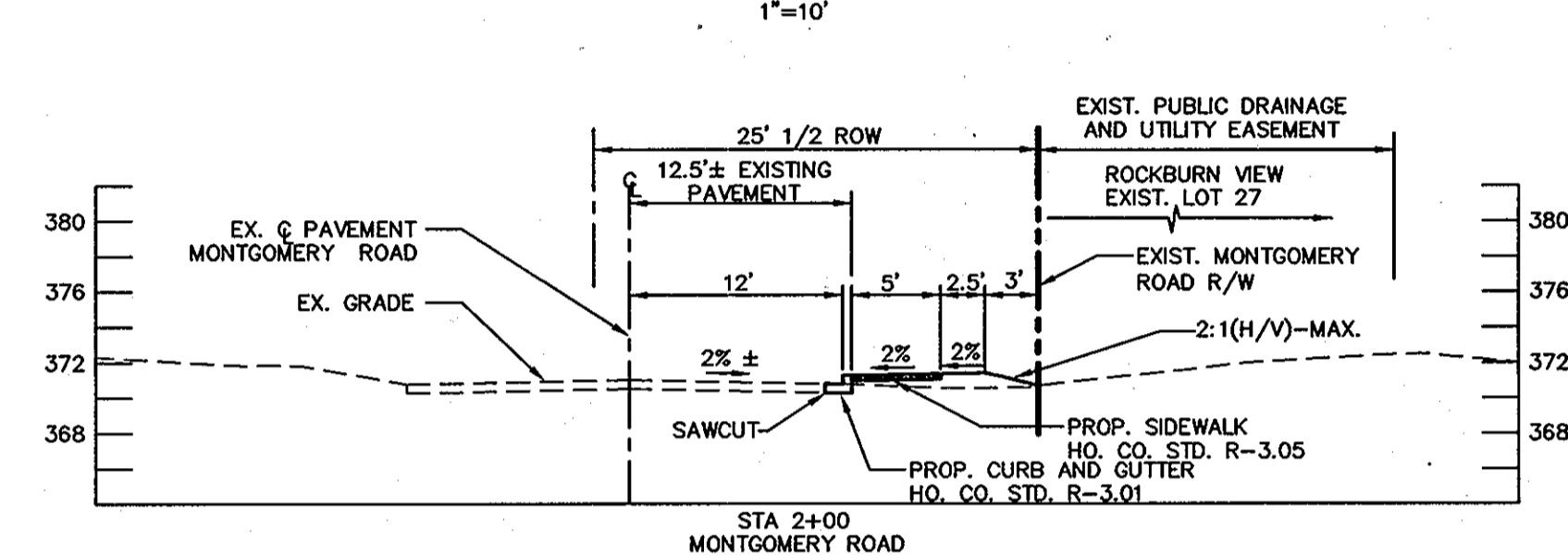
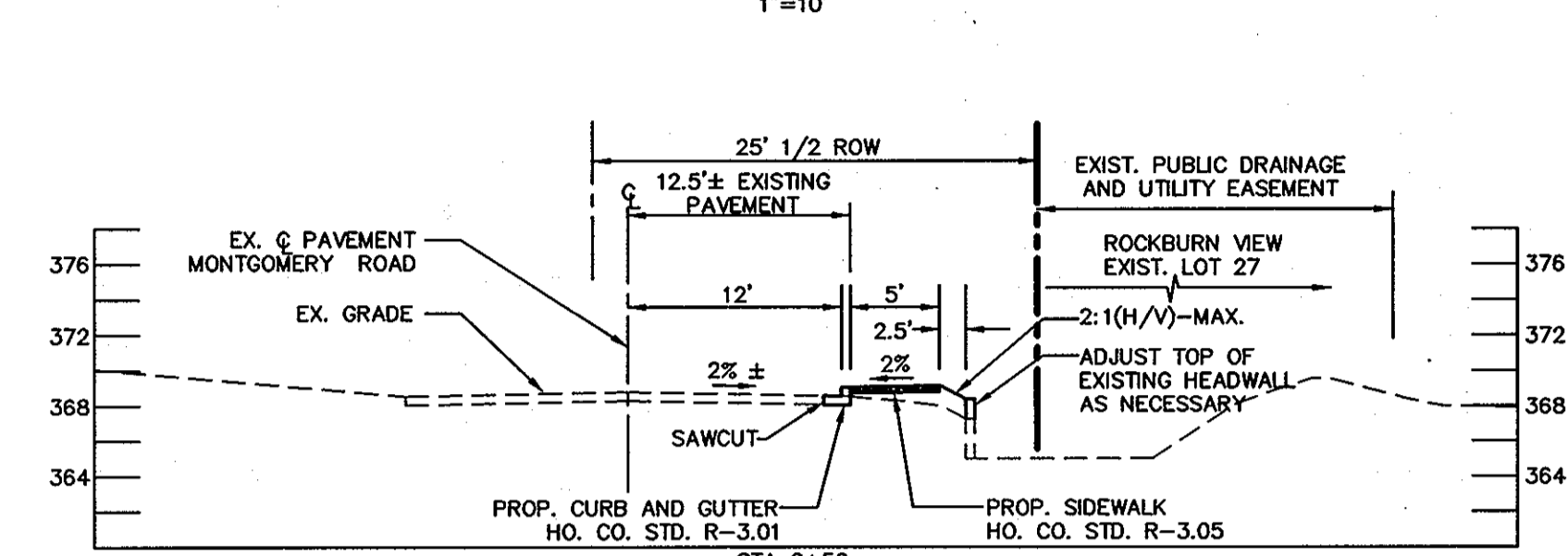
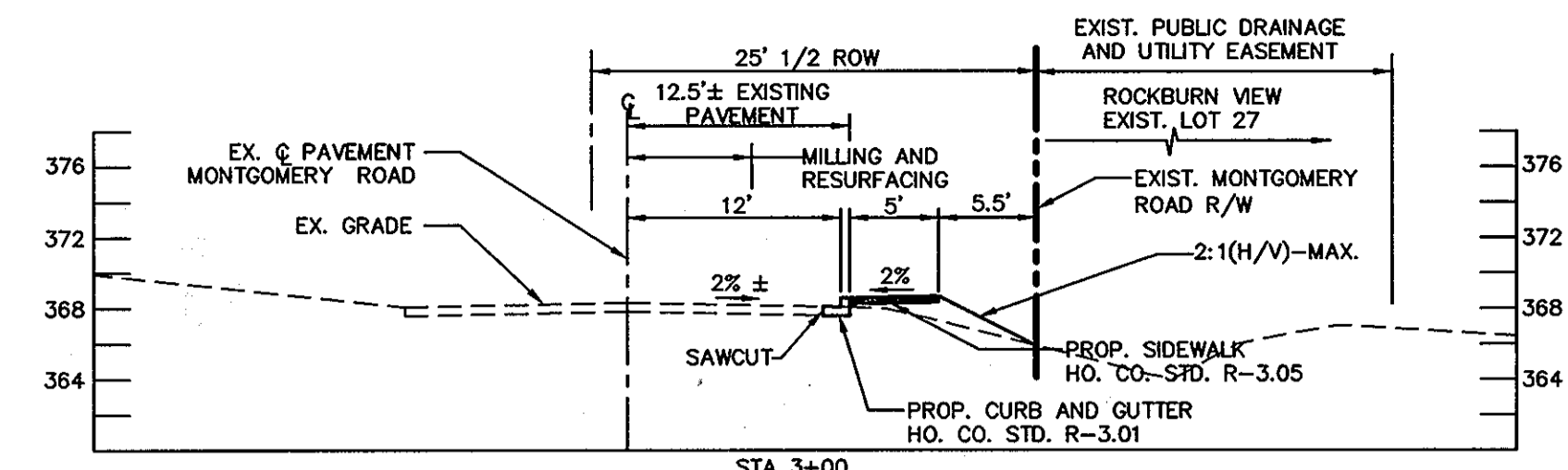
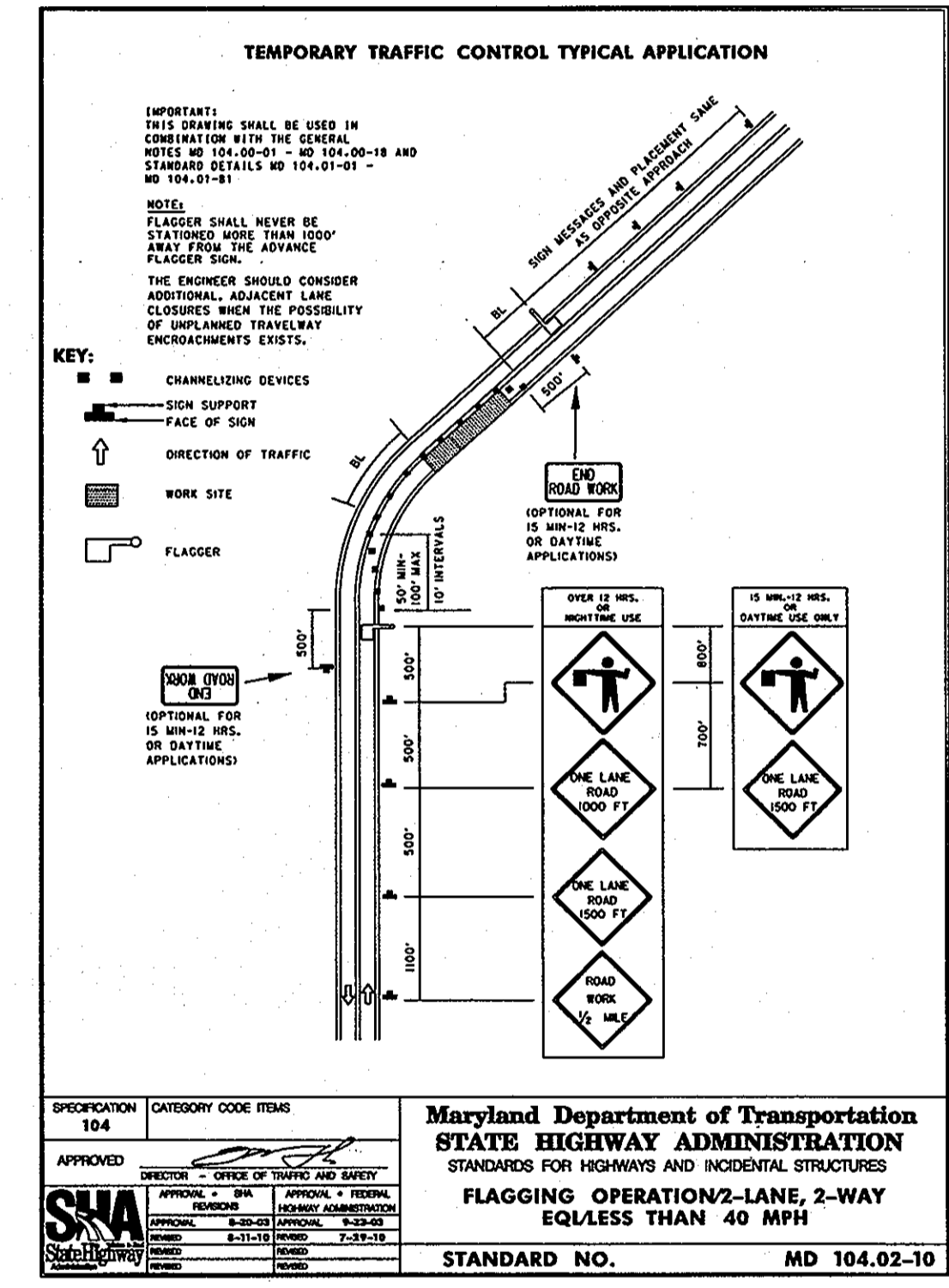
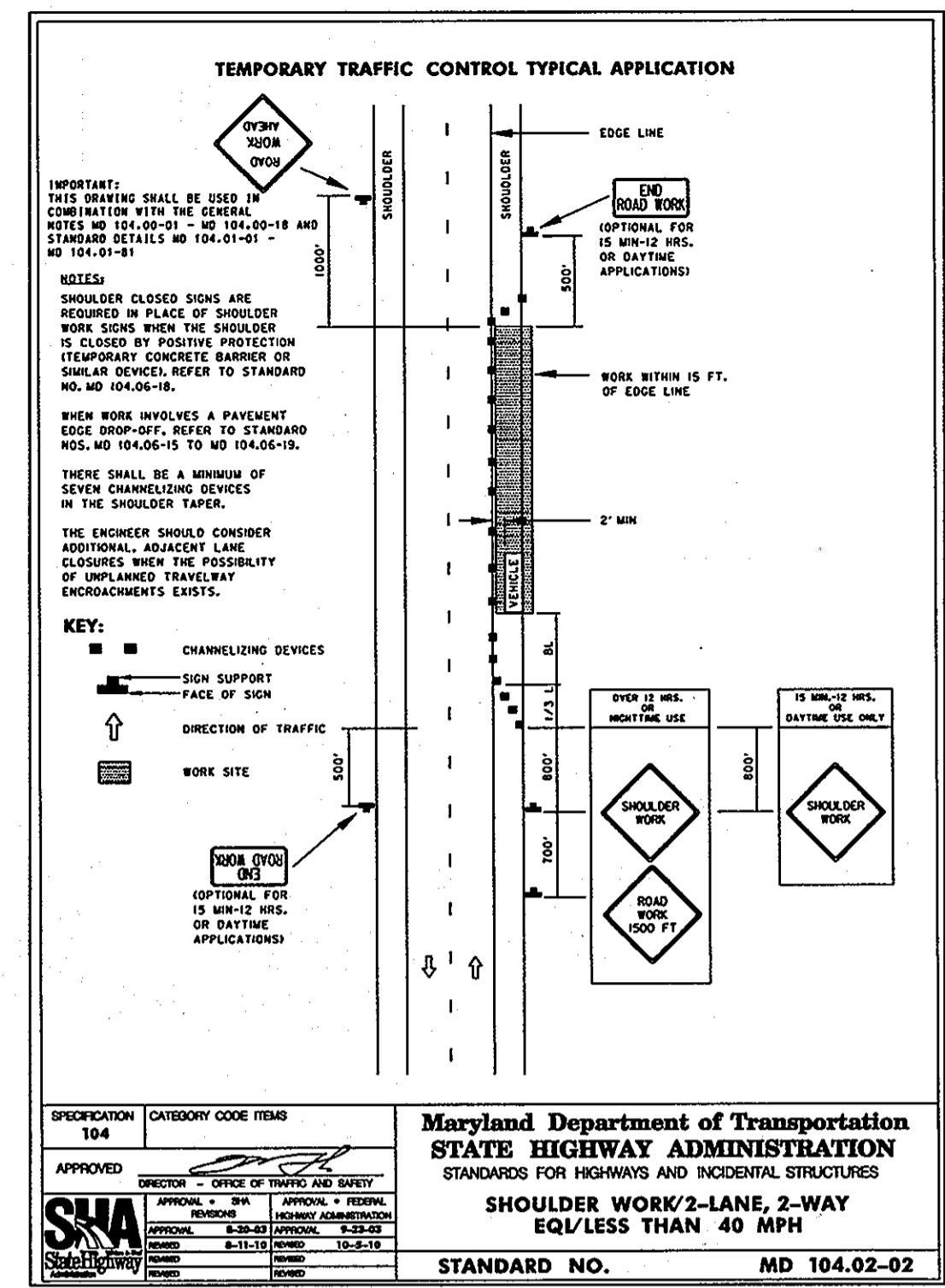
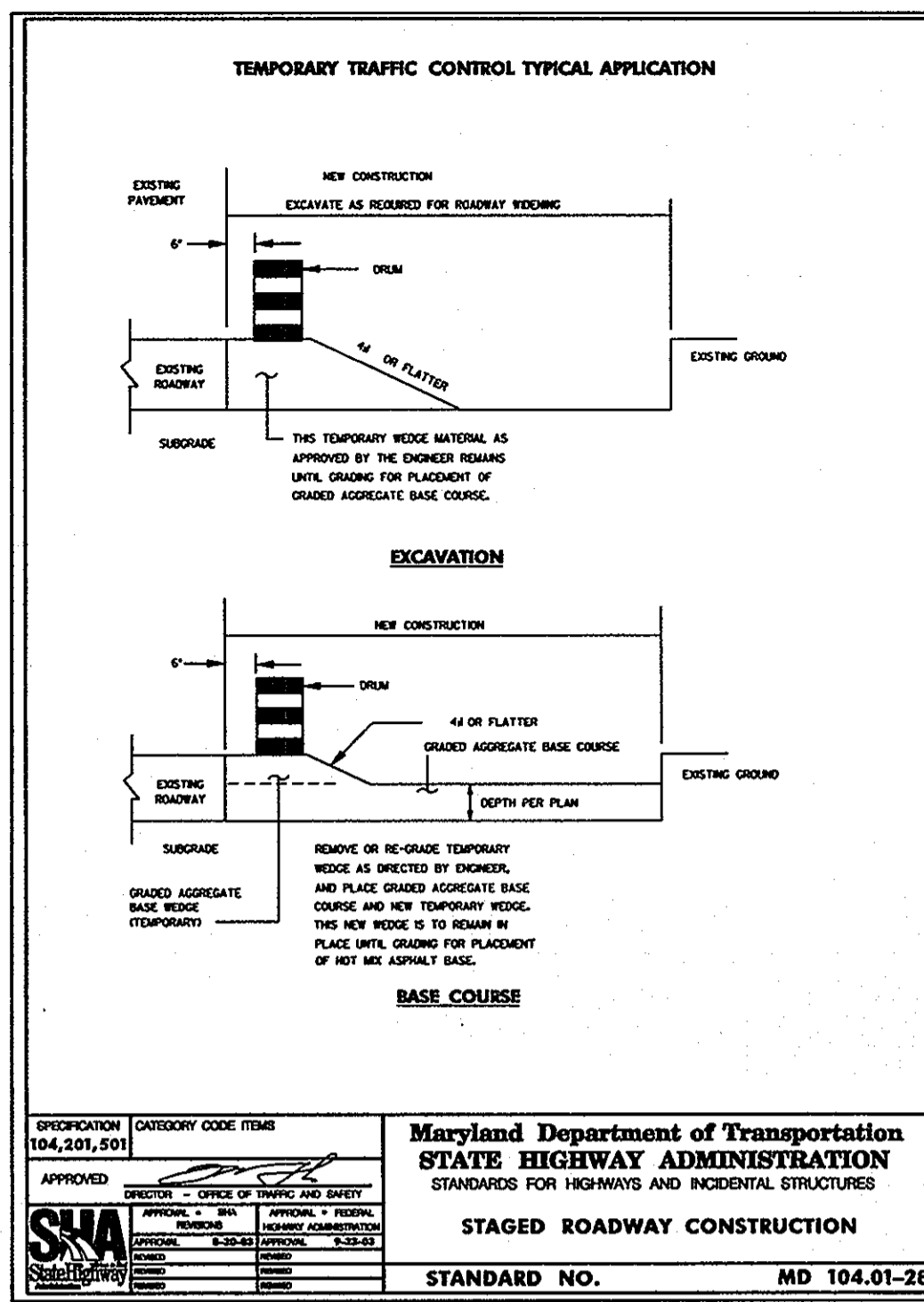


Project: 11-023  
 date: NOV 2012  
 illustration: JLS  
 engineering: JLS  
 scale: SHOWN  
 approval: RJH

Rockburn View Lots 54 thru 61 and O.S. Lot 62  
 Resubdivision of Lot 32 (6090 Montgomery Road, Elkridge, MD)  
 Tax Map: 37 Parcel: 563  
 Howard County, Maryland  
 First Election District  
 Road Improvement and Stormwater Management Sections and Details

MILDENBERG, BOENDER & ASSOC., INC.  
 Engineers Planners Surveyors  
 6800 Deerpath Road, Suite 150, Elkridge, Maryland 21075  
 (410) 997-0288 Fax

4 OF 6  
 F-12-077



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 DORSEY FAMILY HOMES, INC.  
 10717-B BIRMINGHAM WAY  
 WOODSTOCK, MARYLAND 21163  
 (410)465-7200

**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: Jeffrey S. Sloman  
 DATE: 7/25/13

**DEVELOPER'S 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 CONDUCT PERIODIC ON-SITE INSPECTION.

Signature: Robert Dorsey, Jr.  
 DATE: 7-15-13

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

Signature: Howard Soil Conservation District  
 DATE: 7/25/13

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Signature: Chief, Bureau of Highways  
 DATE: 8-1-13

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Signature: Chief, Development Engineering Division  
 DATE: 8/5/13

Signature: Chief, Division of Land Development  
 DATE: 8/6/13



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. 40091, EXP DATE 2/13/15

Signature: Jeffrey S. Sloman  
 DATE: 7/25/13

H-11-023 MICHAEL PROPERTY (DWS) 11-023 RP-S/PP2.DWG

Project	11-023
date	NOV 2012
Illustration	JLS
scale	JLS
approval	SHOWN
no.	

description	revisions
no.	

**ROCKBURN VIEW LOTS 54 THRU 61 AND O.S. LOT 62**  
 RESUBDIVISION OF LOT 32 (6090 MONTGOMERY ROAD, ELKBRIDGE, MD)  
 TAX MAP: 563 PARCEL: 37  
 HOWARD COUNTY, MARYLAND  
 FIRST ELECTION DISTRICT

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Planners, Engineers, Surveyors  
 6800 Deepwater 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.

SEEDING - FOR PERIODS MARCH 1 THRU MAY 15, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1-4 LBS./1000 SQ.FT. OF KENTUCKY 31 TALL FESCUE... FOR THE PERIOD MAY 15 THRU JUNE 15, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (05 LBS./1000 SQ.FT.) OF KEEPING LOVEGRASS.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR USE 348 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS.

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.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU MAY 15 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 15 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF KEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) 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.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS.

SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

Appendix A.4. Construction Specifications for Environmental Site Design Practices

Table with 4 columns: Material, Specification, Rate, and Method. Lists various materials like sand, gravel, and their application rates for different site conditions.

OWNER / DEVELOPER

DORSEY FAMILY HOMES, INC. 10717-B BIRMINGHAM WAY, WOODSTOCK, MARYLAND 21163 (410) 465-7200

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: [Signature] DATE: 7/21/13
JEFFREY SLOWAN, PE
PRINTED NAME OF ENGINEER

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.

SIGNATURE OF DEVELOPER: [Signature] DATE: 7-15-13
ROBERT DORSEY, JR., PRESIDENT, DORSEY FAMILY HOMES, INC.
PRINTED NAME OF DEVELOPER

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

SIGNATURE OF DISTRICT: [Signature] DATE: 7/25/13
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS

SIGNATURE OF PUBLIC WORKS: [Signature] DATE: 8-1-13
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

SIGNATURE OF PLANNING AND ZONING: [Signature] DATE: 8/15/13
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE: 8/26/13
CHIEF, DIVISION OF LAND DEVELOPMENT

DIRECTOR: [Signature] DATE: 7/21/13

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... 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...

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

- I. 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. b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE OF IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS...

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THIS SPECIFICATION... II. 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.

- II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS. V. TOPSOIL APPLICATION I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS... VI. ALTERNATIVE FOR PERMANENT SEEDING INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER AND AMENDMENTS MAY BE ADDED AS FOLLOWS: 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-VIA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

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. 48091, EXP DATE 2/13/15

SIGNATURE OF ENGINEER: [Signature] DATE: 7/21/13
JEFFREY SLOWAN, P.E.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT (1 DAY)
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (1 DAY)
3. CONSTRUCT SUPER SILT FENCES, DIVERSION FENCES AND CHECK DAMS. (1 DAY)
4. WITH PERMISSION OF INSPECTOR, BRING SITE TO GRADE. (40 DAYS)
5. CONSTRUCT MICRO-BIORETENTION FACILITIES (10 DAYS)
6. CONSTRUCT MONTGOMERY ROAD IMPROVEMENTS AS INDICATED. (7 DAYS)
7. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES (EXCEPT SILT FENCES AND SUPER SILT FENCES WHICH SHOULD BE USED FOR SOD-CONSTRUCTION OF THE HOUSES) AND STABILIZE REMAINING DISTURBED AREAS. (3 DAYS)

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

A. MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OF DEVELOPMENT OF IMPERVIOUS AREA, IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

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

- A. 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. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING... B. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL... C. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.

B.4.C Specifications for Micro-Bioretenion, Rain Gardens, Landscape Infiltration & Infiltration Berms

The allowable materials to be used in these practices are detailed in Table B.4.1.

- 1. Material Specifications
2. Filtering Media or Planting Soil
3. Compostion
It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation holes to remove original soil.

Appendix B.4. Construction Specifications for Environmental Site Design Practices

excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Subsoiler methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

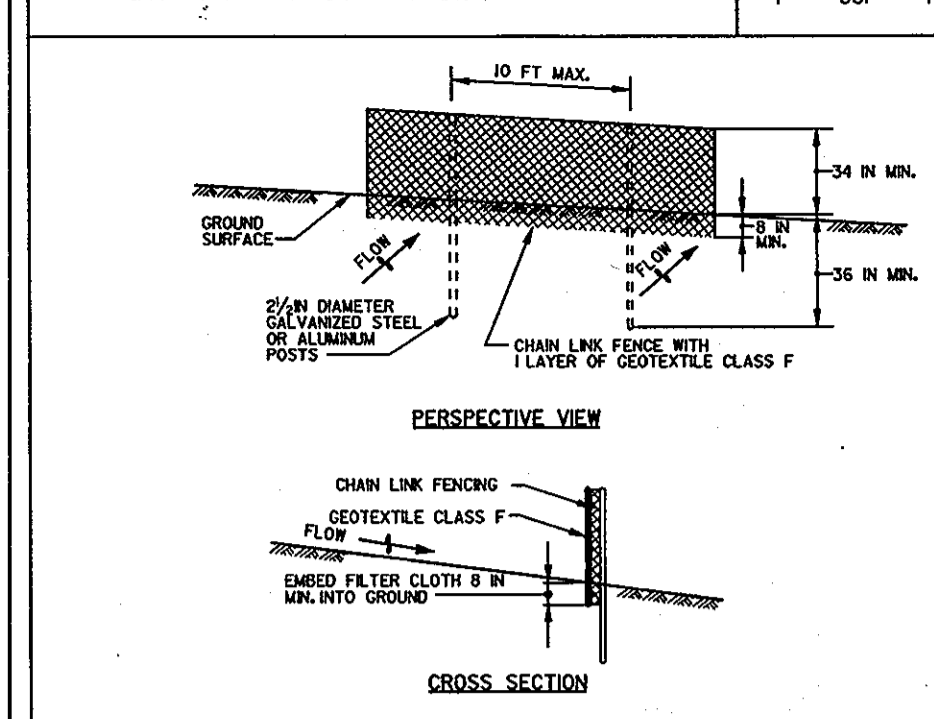
4. Plant Material
Recommended plant material for micro-bioretenion practices can be found in Appendix A, Section A.2.3.

5. Plant Installation
Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8" of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process.

B.4.5 Supp. 1

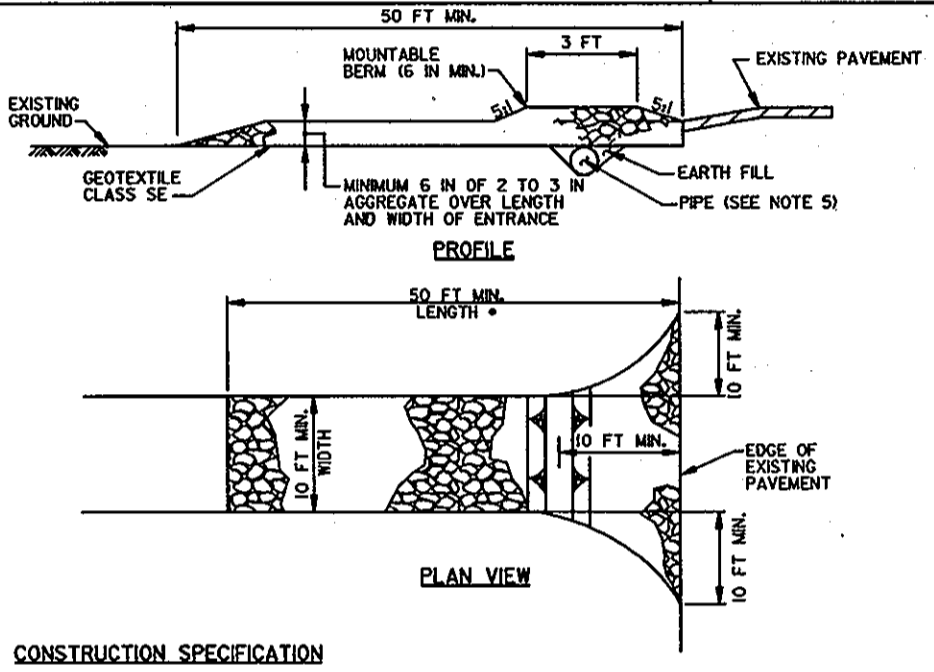
DETAIL E-3 SUPER SILT FENCE



CONSTRUCTION SPECIFICATIONS
1. PLACE NUMBER 8 GALV. FENCE 42 INCHES IN HEIGHT CHAIN LINK FENCING, WITH 6 FOOT FENCE IS SPECIFIED USE 3/4" SPECIFICATIONS FOR A 6 FOOT FENCE... 2. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES...

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ADMINISTRATION. DRAFT October 15, 2009.

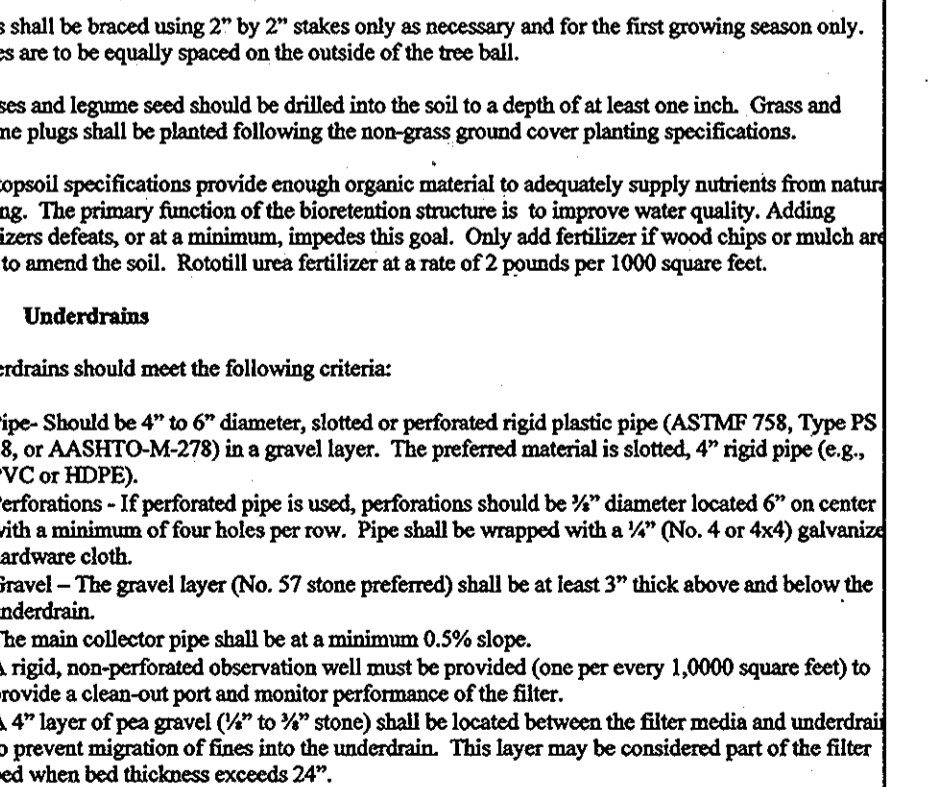
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATION
1. MINIMUM LENGTH OF 50 FEET OR FEET FOR SINGLE RESIDENCE LOTS.
2. MINIMUM WIDTH OF 10 FEET, FLARE SIDE 10 FEET MINIMUM AT THE EXISTING PAVEMENT TO PROVIDE A TURNING RADIUS.
3. PLACE GEOTEXTILE CLASS SE OVER THE EXISTING GRASS FROM TO PLACING STONE...

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ADMINISTRATION. DRAFT October 15, 2009.

DETAIL E-8-1 STANDARD INLET PROTECTION

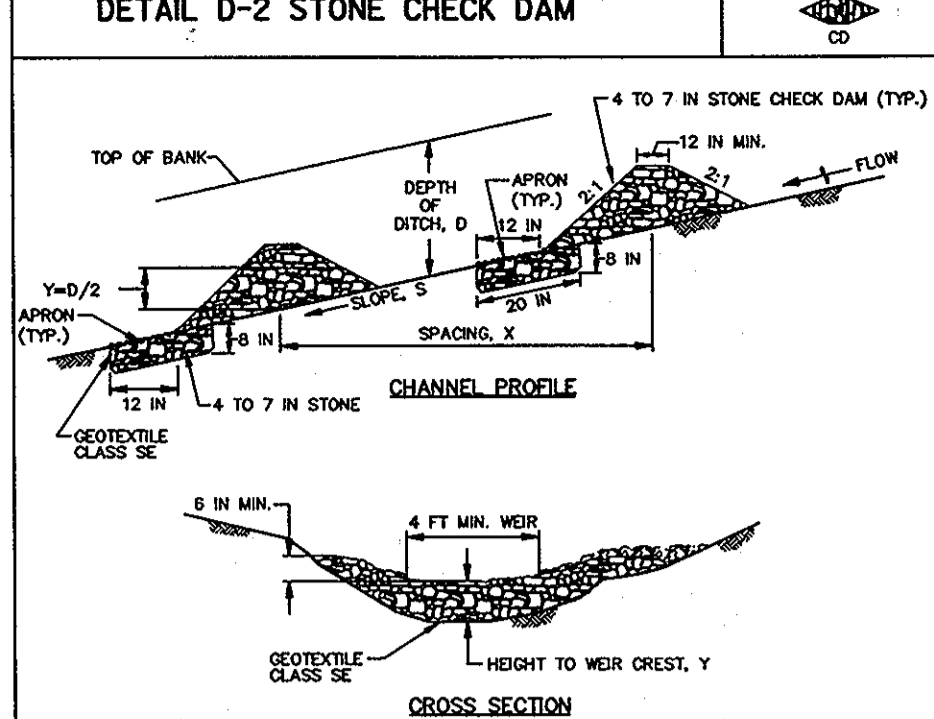


CONSTRUCTION SPECIFICATION
1. PLACE GEOTEXTILE CLASS F TYPE A MAX. DRAINAGE AREA = 0.25 ACRE FOR GALVANIZED HARDWARE CLOTH TYPE B MAX. DRAINAGE AREA = 1.0 ACRE FOR CHAIN LINK FLOOR CLAST.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ADMINISTRATION. DRAFT October 15, 2009.

B.4.6 Supp. 1

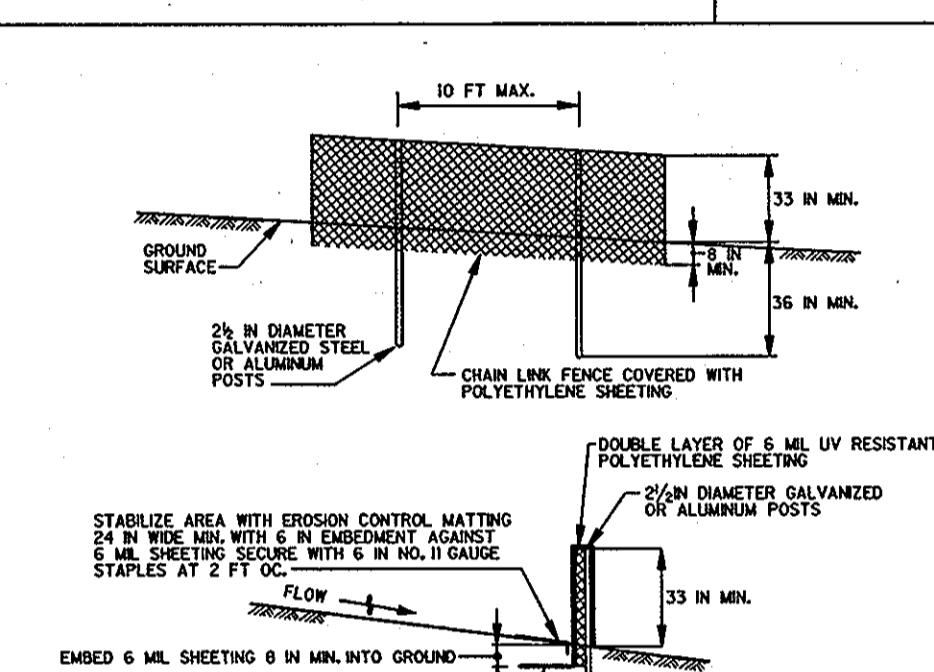
DETAIL D-2 STONE CHECK DAM



CONSTRUCTION SPECIFICATIONS
1. PREPARE SHOULDER AND DITCHES IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS DESCRIBED IN SECTION C-2, STABILIZATION AND SLOPE PROTECTION.
2. CONSTRUCT THE CHECK DAM OF 4 TO 7 HIGH STONE WITH MINIMUM SLOPE SIZES COVERING THE CHANNEL OF 1/2 INCHES AND THE SHOULDER BANKS COMPLETELY OVER THE TRAFFIC EASES, FORMING A WEIR THAT WATER FLOW THROUGH.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ADMINISTRATION. DRAFT October 15, 2009.

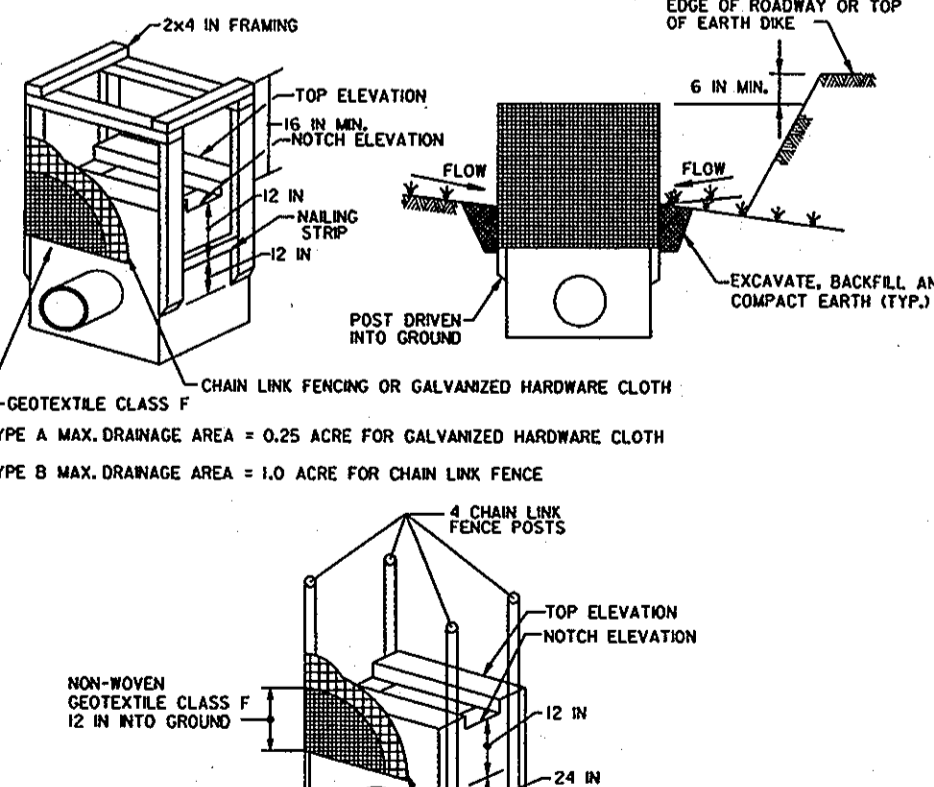
DETAIL C-8 DIVERSION FENCE



CONSTRUCTION SPECIFICATIONS
1. USE 42 INCHES HOUL. NINE GAUGE OR HEAVIER CHAIN LINK FENCING.
2. USE SPACING NOT TO EXCEED 10 FEET. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
3. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES, THE LOWER TENSION WIRE BRACES, STAPLES, STAPLES, STAPLES, AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE END POSTS.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ADMINISTRATION. DRAFT October 15, 2009.

DETAIL E-8-1 STANDARD INLET PROTECTION



CONSTRUCTION SPECIFICATION
1. PLACE GEOTEXTILE CLASS F TYPE A MAX. DRAINAGE AREA = 0.25 ACRE FOR GALVANIZED HARDWARE CLOTH TYPE B MAX. DRAINAGE AREA = 1.0 ACRE FOR CHAIN LINK FLOOR CLAST.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ADMINISTRATION. DRAFT October 15, 2009.

B.4.6 Supp. 1

Rockburn View Lots 54 Thru 61 and O.S. Lot 62. MILDENBERG, BOENDER & ASSOC., INC. 6800 Deepwater Road, Suite 150, Elkridge, Maryland 21075 (410) 997-0286 Fax. (410) 997-0286. Includes project details, dates, and signatures.