

**BENCH MARKS (NAD '83 & NAVD '88)**

HO. CO. #24GA	ELEV. 491.735
Stamped (brass or aluminum) disc set on top of a concrete column 1" or 2" below grade.	
N 579,160.328	E 1,350,477.552
HO. CO. #24CF	ELEV. 482.158
Stamped (brass or aluminum) disc set on top of a concrete column 1" or 2" below grade.	
N 577,631.588	E 1,349,886.408

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS HIGH STANDARDS AND SPECIFICATIONS IF APPLICABLE.
  - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT 410-313-1800 AT LEAST (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.
  - THIS SUBMISSION IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 10-06-13 ZONING REGULATIONS PER COUNCIL BILL NO. 32-2013. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS OR PARCELS MUST COMPLY WITH SETBACKS AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF A BUILDING OR GRADING PERMIT APPLICATION.
  - COORDINATES BASED ON NAD83 HANDBOOK COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24GA AND NO. 24CF.
    - Station No. 24GA N 579,160.328 E 1,350,477.552 Elev. = 491.735
    - Station No. 24CF N 577,631.588 E 1,349,886.408 Elev. = 482.158
  - SUBJECT PROPERTY ZONED R-20 PER THE 2007 HOWARD COUNTY COMPREHENSIVE ZONING PLAN.
    - BACKGROUND INFORMATION: MA PROPERTY
    - TAX MAP NO. 24
    - PARCEL NO.: 1037
    - ZONING: R-20
    - ELECTION DISTRICT: SECOND
  - GROSS AREA OF THIS SUBMISSION = 0.5398 ACRES (LOT 2)
    - NUMBER OF LOTS: 1
    - NUMBER OF OPEN SPACE LOTS: 0
    - AREA OF LOTS: 0.5398 ACRES
    - AREA OF OPEN SPACE LOTS = 0.00 ACRES
    - AREA OF PUBLIC ROADWAY TO BE DEDICATED: 0.00 ACRES
    - PREVIOUS FILE NUMBERS: 607-18-17, F-04-090
    - AREA OF FLOORPLAN = 0.02 AC.
    - AREA OF 25% OR GREATER SLOPES = 0.00 AC. (THIS SUBMISSION)
  - ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF ASPHALT 1-100.
  - THE 65 DBA NOISE CONTOUR LINE SHOWN ON F-04-090 WAS ADVISORY ONLY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO BE EXACTLY LOCATED. THE 65 DBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE HOUSING AND URBAN DEVELOPMENT EXISTING WATER IS PUBLIC (CONTRACT NO. 163-W) EXISTING SEWER IS PUBLIC (CONTRACT NO. 20-1291-5).
  - SOIL INFORMATION TAKEN FROM A WEB SOIL SURVEY.
  - BOUNDARY OUTLINE BASED ON FIELD RUN SURVEY AND TOPOGRAPHIC SURVEY WAS PERFORMED BY SHANBERGER & LANE (ELICOTT CITY, MD.) DATED JUNE, 2017. MOST OF THE TOPOGRAPHY SHOWN OUTSIDE THE BOUNDARY WAS TAKEN FROM HOWARD COUNTY Aerial TOPO (LIDAR) DATA.
  - STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE 2007 HCD, CHAPTER 5 REGULATIONS AND THE LATEST HOWARD COUNTY DESIGN MANUAL, VOL. 1, CHAPTER 5. ADORPTED ON OR AROUND MAY 4, 2010. SPECIFICALLY THROUGH THE USE MULTIPLE RAIN BARRELS TO TREAT THE ROOFTOP AREA. A DRYWELL (FRENCH DRAIN) WILL TREAT THE STAIR WALK, AND AN N-2 STORM WATER MANAGEMENT CREDIT WILL ADDRESS THE DRIVEWAY WIDENING AND NEW DRIVEWAY. STORMWATER PRACTICES SHOWN ON THIS PLAN WILL BE PRIVATELY OWNED AND MAINTAINED.
  - THIS PROPERTY IS NOT SUBJECT TO MEETING THE HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS AS PER THE APPROVED RECORD PLAT #17794. FOREST CONSERVATION IS NOT REQUIRED TO BE MET SINCE THIS WAS PART OF A HOME SUBDIVISION WITH NO FURTHER SUBDIVISION POTENTIAL BASED ON THE EXISTING ZONING IN ACCORDANCE WITH SECTION 16.1202B(4)(ii) OF THE HOWARD COUNTY CODE.
  - THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
  - NO CONTEMPORARY OR HISTORIC STRUCTURES EXIST WITHIN THIS SUBDIVISION.
  - THERE ARE NO WETLANDS LOCATED ON THIS PROPERTY PER THE APPROVED RECORDED PLAT UNDER F-04-090.
  - LANDSCAPING FOR LOT 2 HAS BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. PERIMETER LANDSCAPING REQUIREMENTS (10 SHADE TREES) ARE REQUIRED ON THIS PLAN.
  - THE PROPERTY OWNER HAS OBTAINED WRITTEN PERMISSION FROM THE OWNER OF LOT 1 TO MODIFY THE USE-IN-COMMON ACCESS EASEMENT AND INGRESS/EGRESS RESTRICTIONS AS IS SHOWN ON THE REVISION PLAN.
  - THE EXISTING VEGETATION ON THIS PROPERTY IS MOSTLY SHADY TREES AND MATURE TREES. THE PIPE 5TH CONTAINS GRASS.
  - FINANCIAL SURETY FOR THE 10 SHADE TREES SHALL BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$3,000.
  - THERE IS AN EXISTING HOUSE LOCATED ON LOT 1 PER F-04-090. THIS HOUSE IS TO REMAIN. ALL ADDITIONS TO THIS EXISTING HOUSE MUST MEET THE BUILDING RESTRICTION LINES PER THE HOWARD COUNTY ZONING REGULATIONS.
  - FOR FLAG OR PIPE STEP LOTS, REFUSE COLLECTION, SNOW REMOVAL, AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEP AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPE STEP DRIVEWAY.
  - EXISTING UTILITIES ARE BASED ON EXISTING CONTRACT DRAWING FOR WATER AND SEWER.
  - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
  - SHE ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
  - FOR PERIMETER ENTRANCE DETAILS, REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.01.
  - REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, SOILS TABLE.

**GENERAL NOTES (CONTINUED)**

- OWNER'S SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW BUILDINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - A) WIDTH - 12 FEET (12 FEET MINIMUM FROM ONE SIDE)
  - B) SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH 1% AND 2% SLOPES. (11'-12" MINIMUM)
  - C) COUNTRY ROADWAY 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 25' FOOT TURNING RADIUS.
  - D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (LOADS) - NUMBER OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE.
  - E) DRAINAGE DITCHES - MINIMUM OF 2 FEET
  - F) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- IN ACCORDANCE WITH SECTION 16B (OVAL) 11E OF THE HOWARD COUNTY ZONING REGULATIONS, ANY WINDING CHANNELS OR EXTENSIVE SWAMPY 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.

**LANDSCAPING PLANT LIST**

QTY.	KEY	NAME	SIZE
10	(Symbol)	ACER SACCHARIN GREEN MOUNTAIN/SUGAR MAPLE	2 1/2" - 3" CALIPER FULL CROWN 8/8

**STORMWATER MANAGEMENT PRACTICES**

LOT No.	ADDRESS	DISCONNECTION OF NON-ROOFTOP RUNOFF (Y/N)	RAINWATER HARVESTING (M-NUMBER)	MICRO-BIORETENTION (M-NUMBER)
2	4335 CENTENNIAL LANE	Y	Y - (4)	Y, (1)

**SCHEDULE A - PERIMETER LANDSCAPING**

PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL, FENCE OR BEEM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED			NUMBER OF PLANTS PROVIDED		
						SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES	EVERGREEN TREES	SHRUBS
P-1	RES. TO RES.	A	591 LF	YES, 194 LF & 1 EX. 30" TREE	NO	6	-	-	6	-	-
P-2	RES. TO RES.	CREDIT	172 LF	YES, 172 LF	NO	-	-	-	-	-	-
P-3	RES. TO RES.	A	252 LF	YES, 135 LF	NO	2	-	-	2	-	-
P-4	RES. TO RES.	A	152 LF	NO	NO	2	-	-	2	-	-

**SEWER HOUSE CONNECTION CHART**

LOT	ELEVATION AT MAIN	EX. ELEVATION AT ROW	ELEV AT CO	ELEV AT CO	ELEV AT HOUSE	HCE	BSE	FFE
2	DHC 487.40 -455.5	-468.72	472.86	473.86	474.00	477.50	479.50	489.50

NOTE: EXISTING CONNECTION WAS NOT ABLE TO BE FIELD VERIFIED. ELEVATION BASED ON AVAILABLE COUNTY DATA AND FIELD LOCATION. ELEVATION OF EXISTING CONNECTION TO BE VERIFIED AT TIME OF CONSTRUCTION.

**STREET ADDRESS CHART**

LOT No.	STREET ADDRESS
2	4335 Centennial Lane

**LEGEND**

SYMBOL	DESCRIPTION
(Symbol)	EXISTING CONTOUR 2' INTERVAL
(Symbol)	EXISTING CONTOUR 10' INTERVAL
(Symbol)	EXISTING FENCE
(Symbol)	EXISTING STORM DRAIN
(Symbol)	EXISTING WELL
(Symbol)	EXISTING WATER LINE
(Symbol)	EXISTING SEWER LINE
(Symbol)	EXISTING OVERHEAD WIRE
(Symbol)	BUILDING AND DRIVES TO BE REMOVED
(Symbol)	EXISTING PAVING TO BE REMOVED
(Symbol)	EXISTING PAVING TO REMAIN
(Symbol)	PROPOSED PAVING
(Symbol)	EXISTING TREE LINE
(Symbol)	PROPOSED TREE LINE
(Symbol)	SOIL LINES AND TYPES
(Symbol)	DENOTES EXISTING TREES TO BE REMOVED
(Symbol)	DENOTES EXISTING TREES TO REMAIN
(Symbol)	SPECIMEN TREE
(Symbol)	CRITICAL ROOT ZONE
(Symbol)	PROPOSED EROSION CONTROL MATTING
(Symbol)	NON-ROOFTOP DISCONNECT

**DEVELOPER'S / BUILDER'S CERTIFICATE**

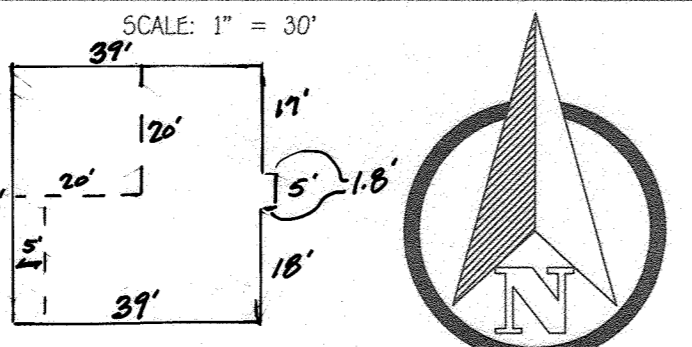
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF UNDESIRABLE INSTALLATION ACCOMPANIED BY AN EXERCISED ONE YEAR GUARANTEE OF PLANT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

NAME: \_\_\_\_\_ DATE: 11/23/20

**SITE ANALYSIS DATA CHART**

- TOTAL AREA OF THIS SUBMISSION = 0.54 AC.
- LIMIT OF DISTURBED AREA = 0.42 AC.
- (SWM BASED ON LOD)
- PRESENT ZONING DESIGNATION = R-20 (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
- PROPOSED USE: RESIDENTIAL SINGLE FAMILY DETACHED
- PREVIOUS HOWARD COUNTY FILES: F-04-090, F-04-090
- TOTAL AREA OF FLOORPLAN LOCATED ON-SITE = 0 AC.
- TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0 AC.
- TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0 AC.
- TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.39 AC.
- TOTAL AREA OF FORETS TO BE RETAINED = 0.16 AC.
- TOTAL IMPROVED AREA (WITHIN LOD, EXCLUDES EXISTING IMPROVED) = 0.54 AC.
- TOTAL AREA OF ERODIBLE SOILS = 0 AC.
- PARCELS REQUIRED: 2.5 SPACES
- PARKING PROVIDED: 4 SPACES (2 IN GARAGE)

**HOUSE FOOTPRINT AND BUILDING ELEVATION**



**ENGINEER'S CERTIFICATE**

"I certify that the design and erosion control represents a practical and workable plan based on a personal knowledge of the site conditions and that it was prepared in accordance with the standards of the Howard Soil Conservation District."

Mr. Aldo M. [Signature] 9/14/2022 Date

**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."

Mr. Hong Tao Ma [Signature] August 4th 2020 Date

**OWNER'S CERTIFICATE**

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Mr. Hong Tao Ma [Signature] 9/9/2020 Date

**OWNER/DEVELOPER**

Mr. Hong Tao Ma  
4268 Maisel Farm Lane  
Ellicott City, Maryland 21042  
410.493.4950  
greathomes111@yahoo.com

**PERMIT INFORMATION CHART**

NO.	REVISION	DATE
1	REVISE HOUSE FOOTPRINT	3-17-22

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
17794	N/A	R-20	24	2ND	601101

**SITE DEVELOPMENT PLAN & LANDSCAPE PLAN**

**MA PROPERTY, LOT 2**  
4335 Centennial Lane, Ellicott City, MD 21042  
(A Single Family Dwelling)  
(Plat Ref. 17794)  
Zoning: R-20  
TAX MAP NO: 24 PARCEL NO.: 1037 GRID NO.: 19  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
DATE: AUGUST 2020  
SHEET 1 OF 5

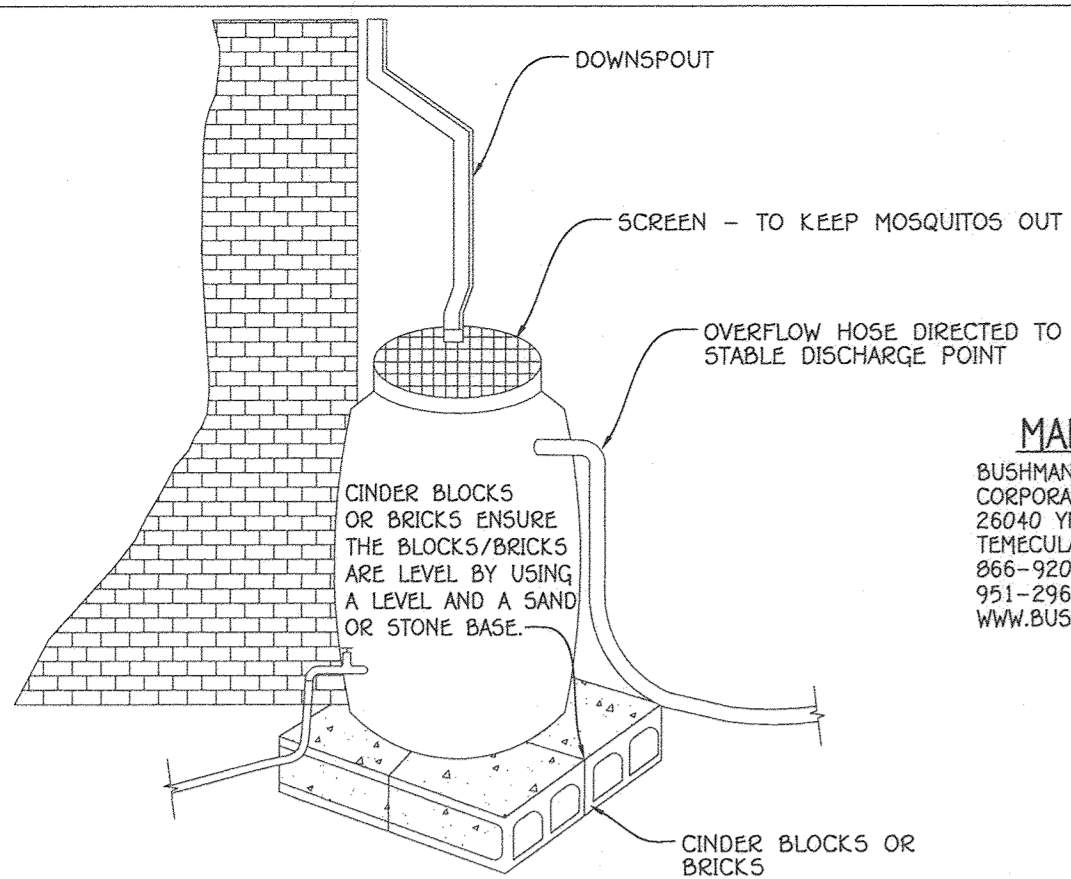
**FISHER, COLLINS & CARTER, INC.**  
Civil, Engineering, Consultants & Land Surveyors  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2999

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development 12/17/20 Date

Chief, Development Engineering Division 9.30.20 Date

Director, Department of Planning and Zoning 12-16-20 Date

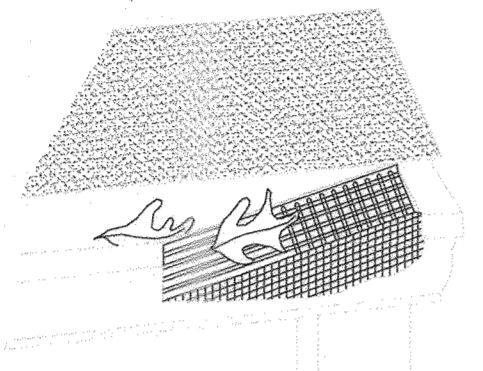


**MANUFACTURER:**  
 BUSHMAN BRT420 (PART NUMBER)  
 CORPORATE HEADQUARTERS:  
 26040 YNEZ ROAD, P.O. BOX 893051  
 TEMECULA, CALIFORNIA 92599-3051  
 866-920-8265 (P)  
 951-256-5123 (F)  
 WWW.BUSHMANUSA.COM

**OPERATION AND MAINTENANCE SCHEDULE FOR RAINWATER HARVESTING SYSTEM (M-1)**

THE RAINWATER HARVESTING SYSTEM SHALL BE INSPECTED AT LEAST TWICE PER YEAR (ONCE EACH IN THE SPRING AND FALL). THE OWNER IS RESPONSIBLE FOR MAINTAINING A DETAILED LOG OF THE MAINTENANCE INSPECTION FINDINGS AND A HISTORY OF THE COMPLETED WORK. THE LOG SHALL BE MADE AVAILABLE TO HOWARD COUNTY DPZ AND/OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UPON REQUEST. SPECIFIC COMPONENTS TO BE INSPECTED AND MAINTAINED INCLUDE THE ITEMS AS FOLLOWS:

1. REMOVE DEBRIS.
2. EXAMINE STRUCTURES FOR SIGNS OF STRUCTURAL ISSUES (DAMAGE, CORROSION, ETC).
3. REMOVE AND PROPERLY DISPOSE ACCUMULATED SEDIMENT GREATER THAN ONE (1) INCH.
4. THE HOMEOWNER SHALL VERIFY INTEGRITY OF LEAF SCREENS, GUTTERS & DOWNSPOUTS AND CLEAN AND REMOVE ANY DEBRIS.

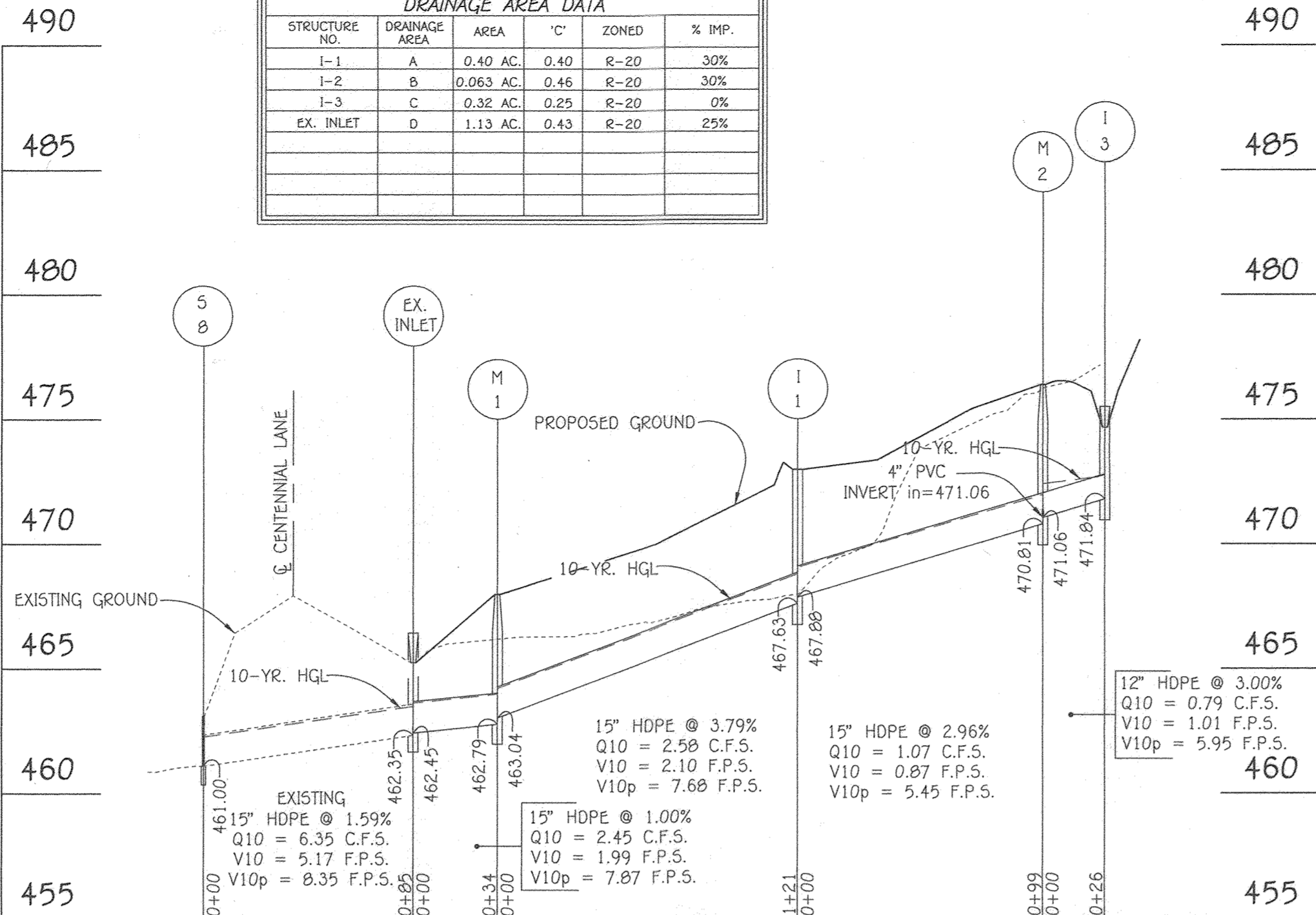


GUTTER DRAIN FILTER DETAIL  
NOT TO SCALE

**STORMWATER MANAGEMENT NOTES**

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHARTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
3. DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 2% THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
4. FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

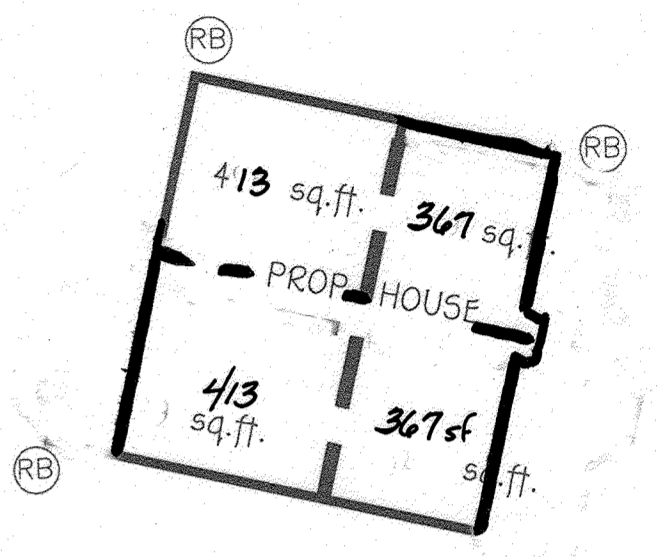
DRAINAGE AREA DATA					
STRUCTURE NO.	DRAINAGE AREA	AREA	C'	ZONED	% IMP.
I-1	A	0.40 AC.	0.40	R-20	30%
I-2	B	0.063 AC.	0.46	R-20	30%
I-3	C	0.32 AC.	0.25	R-20	0%
EX. INLET	D	1.13 AC.	0.43	R-20	22%



**PROFILE STORM DRAIN**

SCALE HORIZ. 1" = 50'  
 VERT. 1" = 5'

STRUCTURE SCHEDULE									
STRUCTURE NO.	TOP ELEVATION	INV.IN	INV.OUT	ROAD NAME	COORDINATES	OFFSET	TYPE	REMARKS	
I-1	473.00	467.80 (15")	467.63 (15")	PRIVATE DRIVE	N 577,270.39 E 1,350,016.87	-----	'S' INLET	SD 4.22	
I-2	476.92	-----	471.67 (12")	PRIVATE DRIVE	N 577,237.22 E 1,350,128.65	-----	15" DRAIN BASIN	ADS INLET-PART 3215	
I-3	475.50	-----	471.84 (12")	PRIVATE DRIVE	N 577,273.89 E 1,350,117.97	-----	'D' INLET	SD 4.39	
EX. INLET	466.45	462.45 (15")	462.35 (15")	PRIVATE DRIVE	N 577,333.87 E 1,349,892.61	-----	EX. 'D' INLET	SD 4.39	
M-1	468.01	463.04 (15")	462.79 (15")	PRIVATE DRIVE	N 577,248.51 E 1,349,897.35	-----	STD. MANHOLE	Q-5.12	
M-2	476.39	471.06 (12")-2	470.81 (15")	PRIVATE DRIVE	N 577,249.31 E 1,350,113.36	-----	STD. MANHOLE	Q-5.12	
EXISTING S-B	463.11	-----	461.11 (15")	CENTENNIAL LANE	N 577,291.24 E 1,349,817.20	36.17' L	TYPE 'C' ENDWALL	D 5.21	

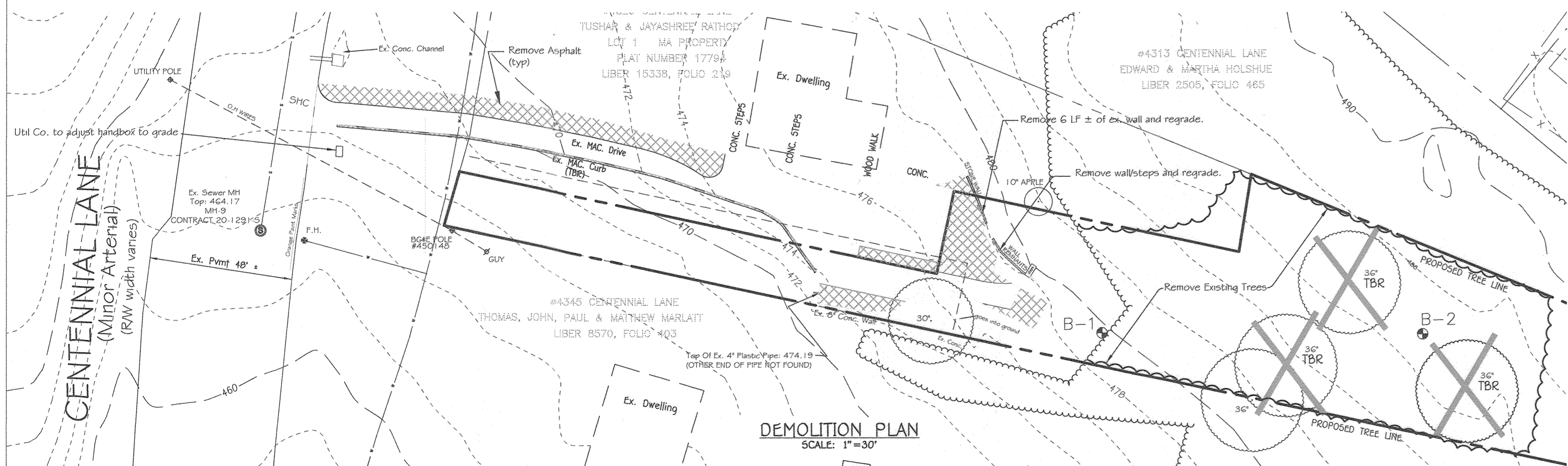


HOUSE DRAINAGE AREA MAP

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)							
		PAVEMENT MATERIAL (INCHES)				MIN HMA WITH GAB			
P-1	PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE ALLEYS: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY	HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE 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	

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

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA IN COMMERICAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.



DEMOLITION PLAN  
SCALE: 1" = 30'



DRAINAGE AREA MAP  
SCALE: 1" = 50'

NOTE: AREA 'B' INCLUDES AREA FROM FRENCH DRAIN IN AREAWAY

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development  
 Date: 12/16/20

Chief, Development Engineering Division  
 Date: 9/30/20

Director - Department of Planning and Zoning  
 Date: 12-16-20

**ENGINEER'S CERTIFICATE**  
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on a site inspection of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."  
 Mr. Aldo M. P.E.  
 Date: 7/9/20

**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."  
 Mr. Hong Tao Ma  
 Date: 08/04/2020

**OWNER/DEVELOPER**  
 Mr. Hong Tao Ma  
 4268 Mailed Farm Lane  
 Ellicott City, Maryland 21042  
 410.493.4950  
 greathomes111@yahoo.com

PERMIT INFORMATION CHART				
SUBDIVISION	MA PROPERTY	SECTION/AREA	LOT Nos.	LOT 2
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.
17794	N/A	R-20	24	2ND
CENSUS TR.			601101	

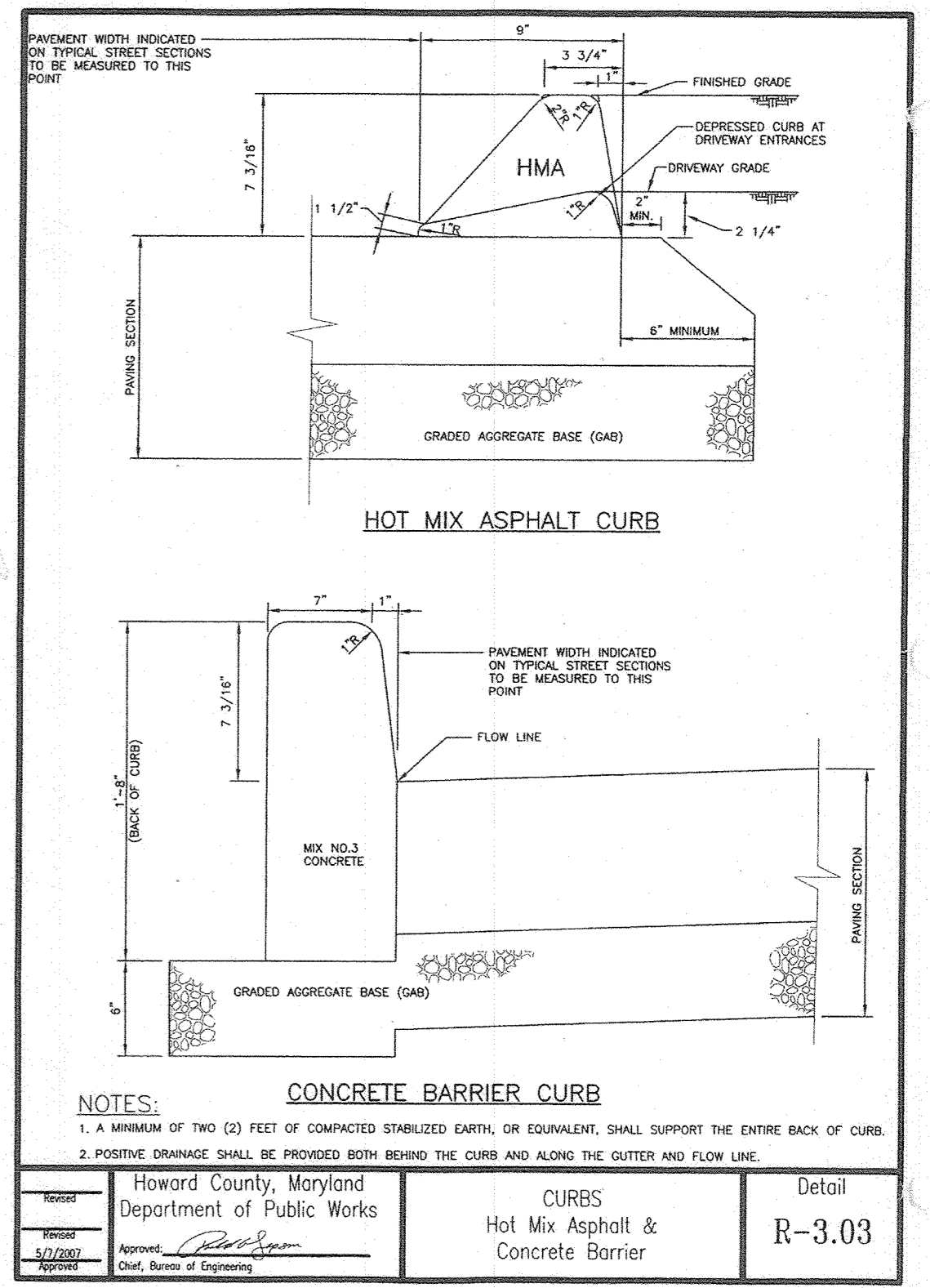
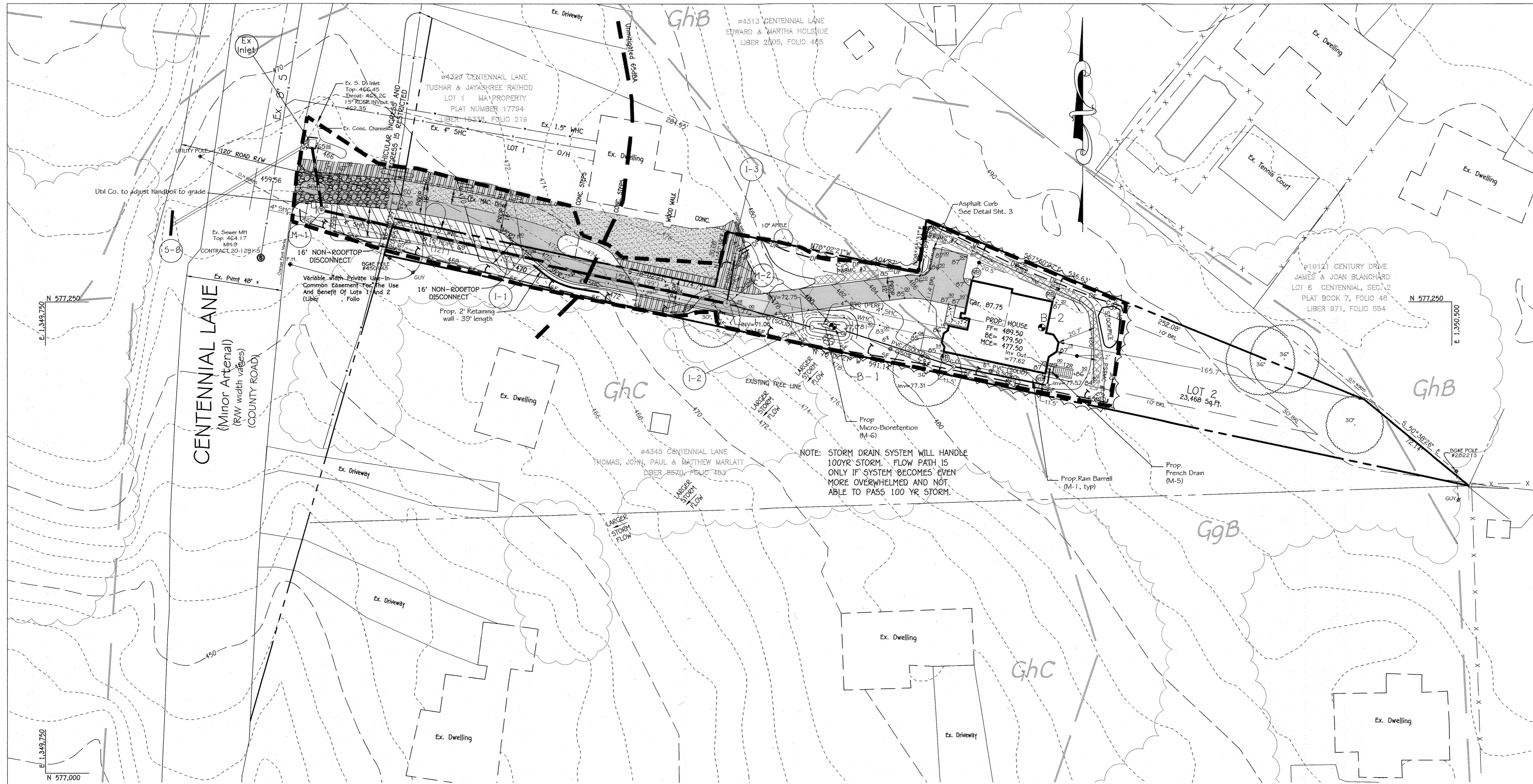
**DETAIL SHEET, STORM DRAIN PROFILE & DRAINAGE AREA MAP**

**MA PROPERTY, LOT 2**  
 4335 Centennial Lane, Ellicott City, MD 21042  
 (A Single Family Dwelling)  
 (Plat Ref. 17794)  
 Zoning: R-20

TAX MAP NO: 24 PARCEL NO.: 1037 GRID NO.: 19  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE: AUGUST 2020  
 SHEET 2 OF 5

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2895



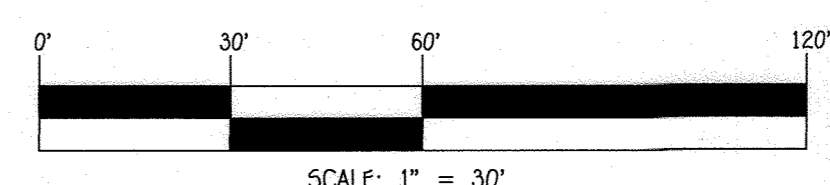
1. Material Specifications The allowable materials to be used in these practices are detailed in Table B.4.1.
2. Filtering Media or Planting Soil The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretenion practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05. The planting soil shall be tested and shall meet the following criteria: Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural classification) Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%). Clay Content - Media shall have a clay content of less than 5%. pH Range - should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH. There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are 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 will significantly contribute to design failure. 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 restructure the soil profile through the 12 inch compaction zone. Substitute 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.

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

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. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance. 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 th 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. Thoroughly water ground bed cover after installation. Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball. Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications. The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

6. Underdrains-Underdrains should meet the following criteria: Pipe- Should be 4" to 6" diameter, slotted or perforated rigid plastic pipe (ASTM F 758, Type P5 28, or AASHTO-M-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g., PVC or HDPE). Perforations - If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4x4) galvanized hardware cloth. Gravel - The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the underdrain. The main collector pipe shall be at a minimum 0.5% slope. A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter. A 4" layer of pea gravel (1/4" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24". The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).
7. Miscellaneous stabilized these practices may not be constructed until all contributing drainage area has been



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development *[Signature]* 12/16/20 Date

Chief, Development Engineering Division *[Signature]* 9/30/20 Date

Director - Department of Planning and Zoning *[Signature]* 12-16-20 Date

**ENGINEER'S CERTIFICATE**

"I certify that the development and erosion control represents a practical and workable plan based on a thorough knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Mr. Aldo *[Signature]* 9/9/20 Date

**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."

Mr. Hong Tao Ma *[Signature]* 9/10/20 Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 9/9/20 Date

**OWNER/DEVELOPER**

Mr. Hong Tao Ma  
4268 Maisel Farm Lane  
Ellicott City, Maryland 21042  
410-483-4950  
greathomes111@yahoo.com

REVISION		DATE
NO.		

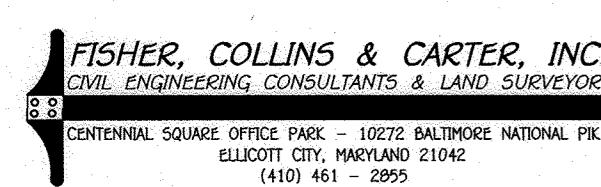
PERMIT INFORMATION CHART				
SUBDIVISION	SECTION/AREA	LOT No.		
MA PROPERTY		LOT 2		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.
17794	N/A	R-20	24	2ND
				CENSUS TR.
				601101

SEDIMENT AND EROSION CONTROL PLAN

**MA PROPERTY, LOT 2**

4335 Centennial Lane, Ellicott City, MD 21042  
(A Single Family Dwelling)  
(Plat Ref. 17794)  
Zoning: R-20

TAX MAP NO: 24 PARCEL NO.: 1037 GRID NO.: 19  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
DATE: AUGUST 2020  
SHEET 3 OF 5



SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

- A. Soil Preparation
1. Temporary Stabilization
a. Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable equipment...

- B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetation growth...

PERMANENT SEEDING NOTES (B-4-5)

- A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone...

- 2. Turfgrass Mixtures
a. Areas where turfgrasses may be desired include lawns, parks, playgrounds, and commercial sites which require a medium to fine texture...

Table with columns: Hardness Zone, Species, Application Rate, Seeding Dates, Seeding Depth, N, P2O5, K2O, Lime Rate. Includes rows for FESCUE and KY BLUEGRASS.

STANDARD STABILIZATION NOTE
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
a.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMETHEES DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 1:1 HORIZONTAL TO 1 VERTICAL (3:1); AND

STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA (B-4-6)

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.

Table with columns: Species, Application Rate, Seeding Dates, Seeding Depth, N, P2O5, K2O, Lime Rate. Includes rows for BARLEY and OATS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development
Date: 9/30/20

FISHER, COLLINS & CARTER, INC. ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PLACE
ELICOTT CITY, MARYLAND 21042
(410) 461 - 2895

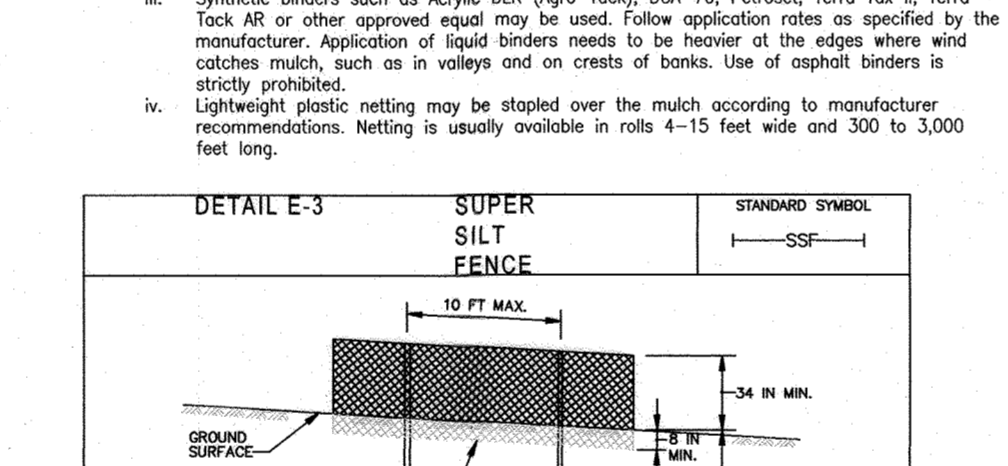
STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING (B-4-3)

- 1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixtures, application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.

- 2. Application
a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1. Permanent Seeding Table B.3 or site-specific seeding summaries.

- 3. Anchoring
a. Perform much anchoring immediately following application of much to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the site of the soil erosion hazard.

Table with columns: Hardness Zone, Species, Application Rate, Seeding Dates, Seeding Depth, N, P2O5, K2O, Lime Rate. Includes rows for FESCUE and KY BLUEGRASS.

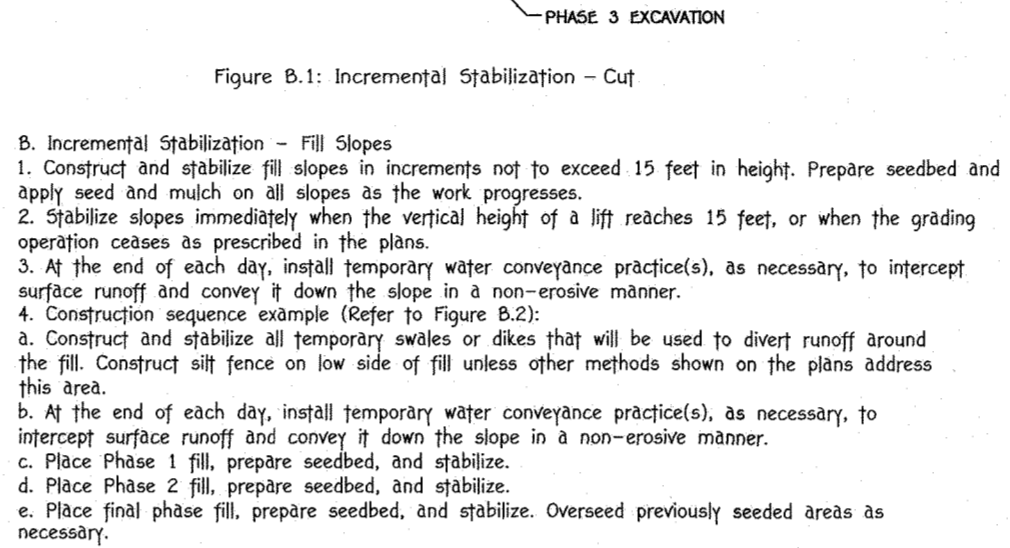


- CONSTRUCTION SPECIFICATIONS
1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS TO A MINIMUM OF 36 INCHES INTO THE GROUND.

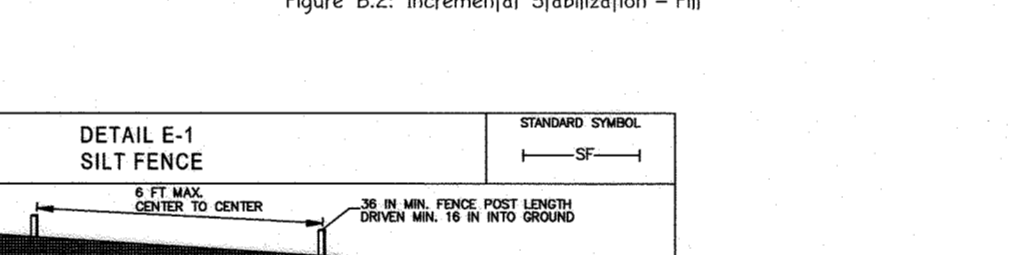
ENGINEER'S CERTIFICATE
I certify that the development and erosion control represents a practical and workable plan based on the knowledge of the site conditions and that it was prepared in accordance with the standards and specifications of the Howard Soil Conservation District.
Mr. Hong Tao Ma, Date: 9/10/20

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

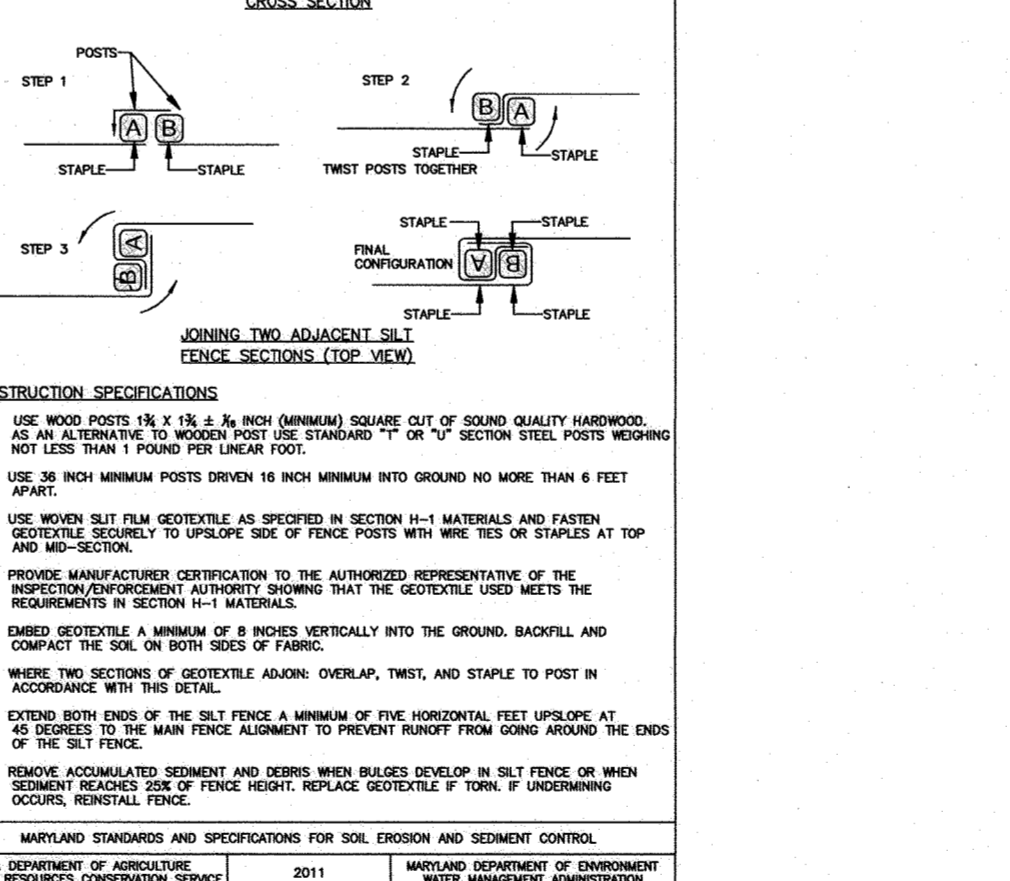
- 1. Establishment of vegetative cover on cut and fill slopes.
2. To provide timely vegetative cover on cut and fill slopes as work progresses.
3. Any cut or fill slope greater than 15 feet in height; This practice also applies to stockpiles.



- 1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and much on all slopes as the work progresses.
2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.



- CONSTRUCTION SPECIFICATIONS
1. USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2 1/2 INCH MAXIMUM OPENING).
2. USE 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART.



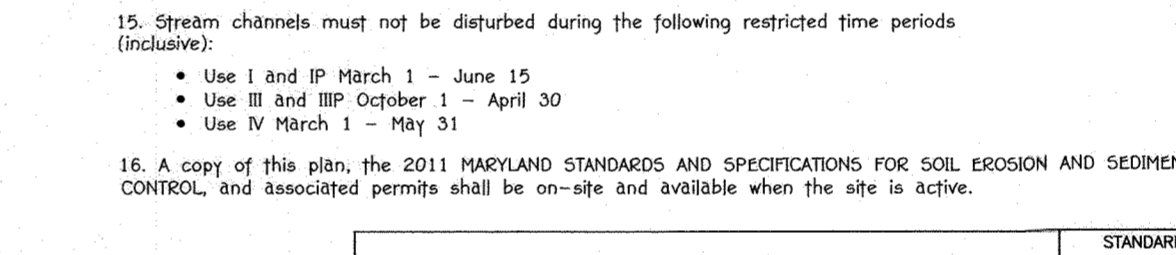
ENGINEER'S CERTIFICATE
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Mr. Hong Tao Ma, Date: 9/10/20

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

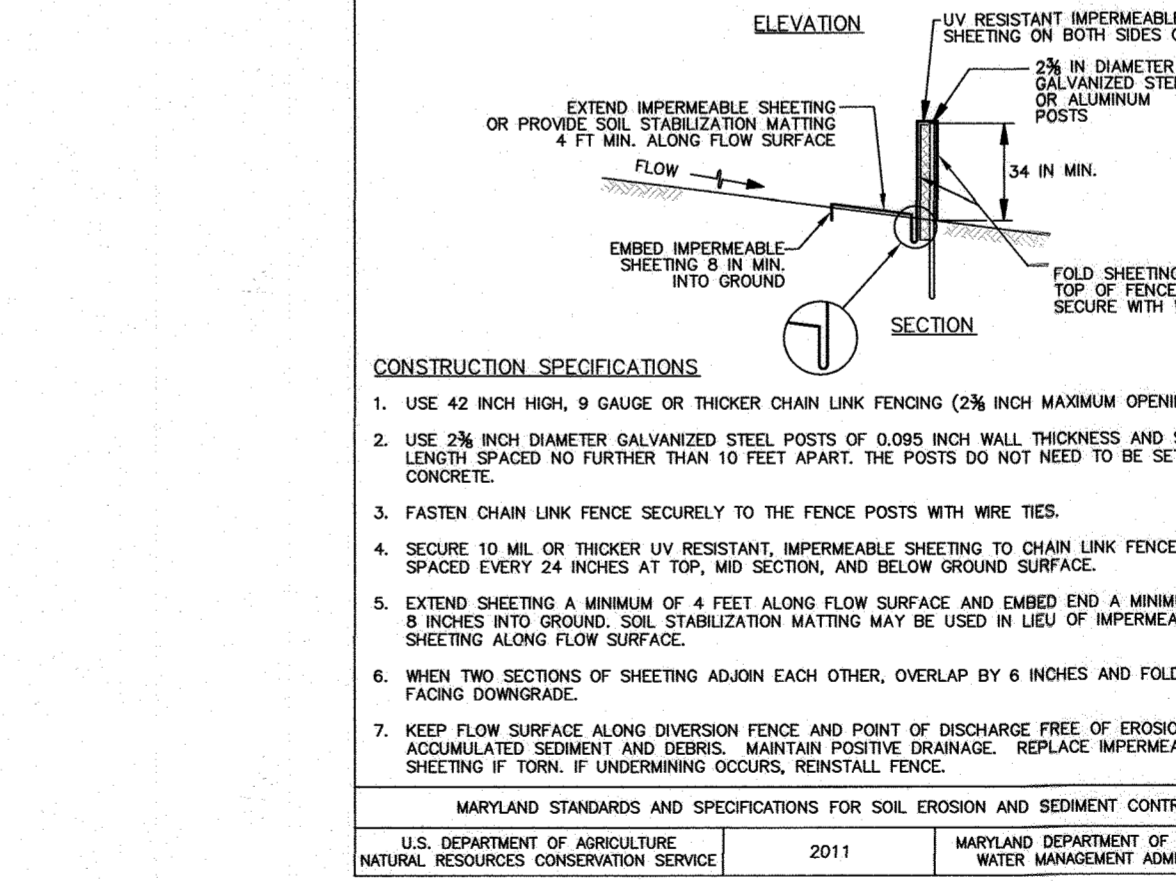
- 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1959 after the future LEO and permit areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages:
a. Prior to the start of earth disturbance.
b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading.

- 6. Site Analysis:
a. Total Area of Site: 0.5398 Acres
b. Area Disturbed: 0.55 Acres
c. Area to be roofed or paved: 0.075 Acres
d. Area to be vegetatively stabilized: 0.48 Acres
e. Total Cut: 2,000 Cu. Yds.
f. Total Fill: 2,000 Cu. Yds.

- CONSTRUCTION SPECIFICATIONS
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DERIVED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DERIVABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION OF CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND BEED GERMINATION AND NON-DURABLE TO THE POINT OF REMOVAL.



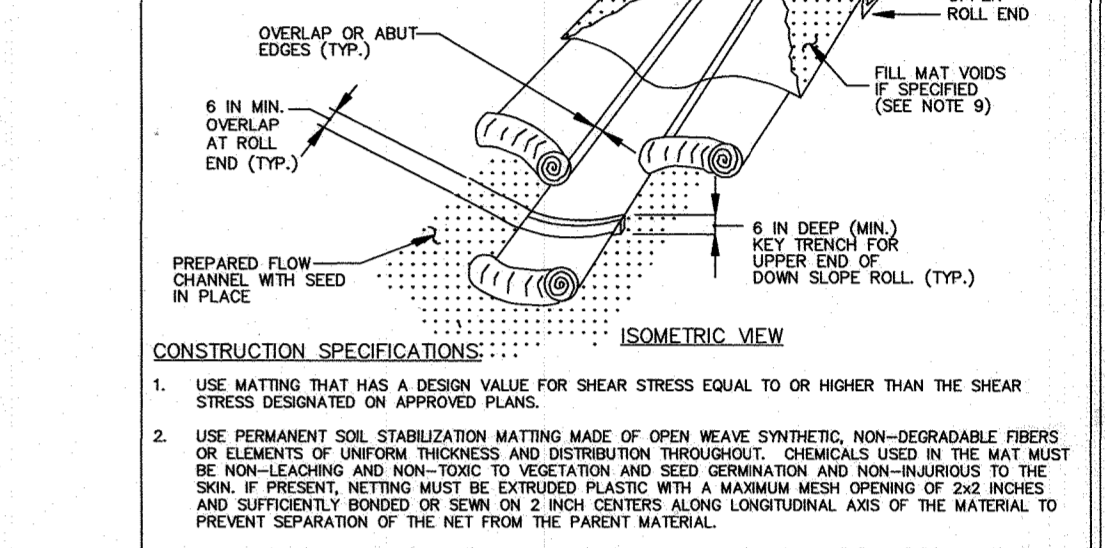
- CONSTRUCTION SPECIFICATIONS
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (40 FEET FOR SINGLE RESIDENTIAL DRIVE), 75 FEET MINIMUM BOTH ENDS AT HIGH SPOT AND 100 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.



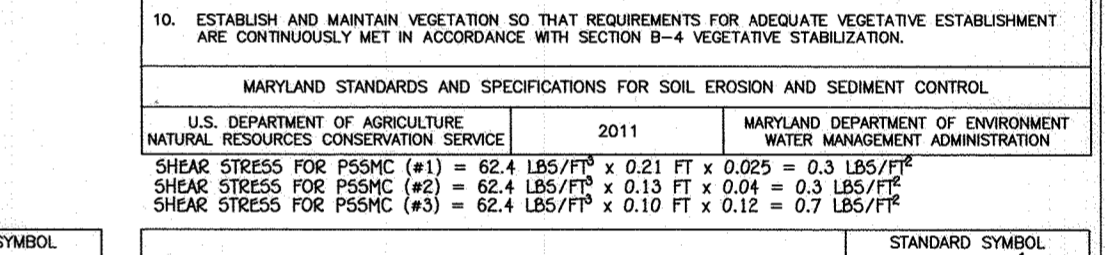
ENGINEER'S CERTIFICATE
I certify that the development and erosion control represents a practical and workable plan based on the knowledge of the site conditions and that it was prepared in accordance with the standards and specifications of the Howard Soil Conservation District.
Mr. Hong Tao Ma, Date: 9/10/20

SEQUENCE OF CONSTRUCTION

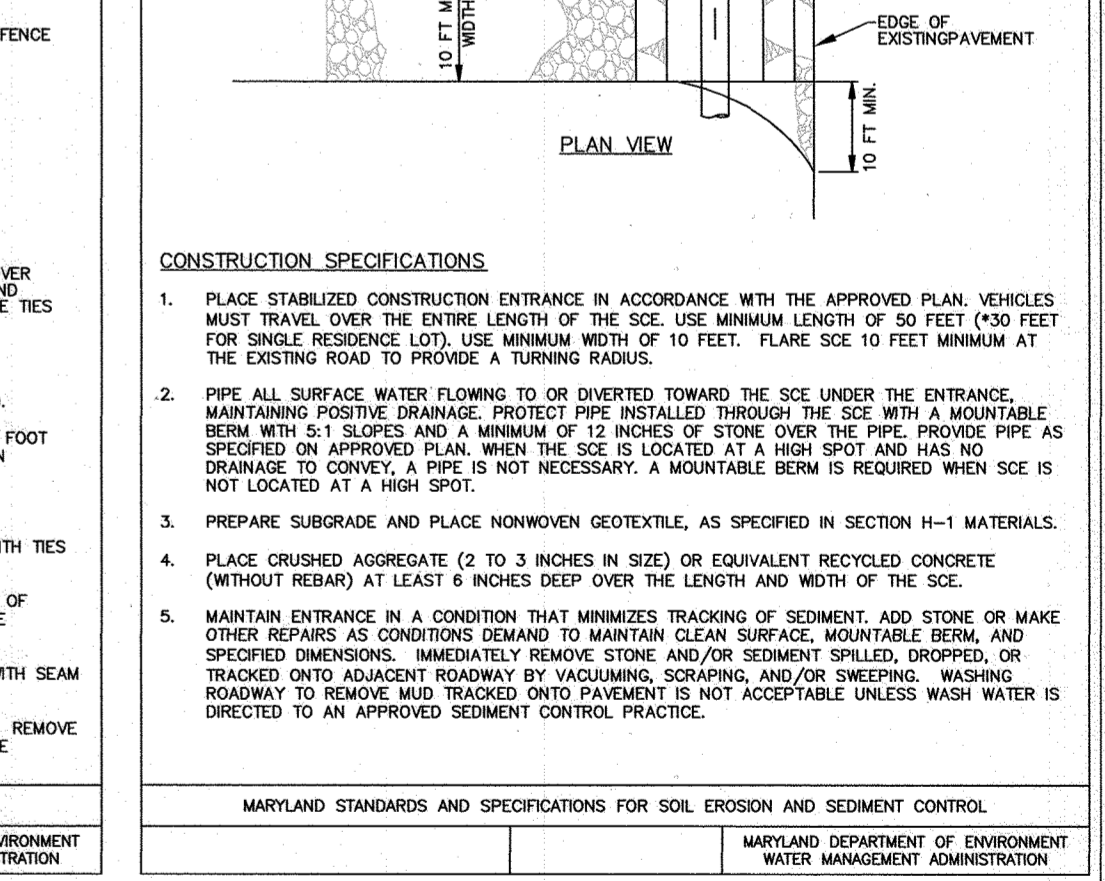
- 1. OBTAIN GRADING PERMITS. (2 WEEKS)
2. NOTIFY "MISS UTILITY AT LEAST 48 HOURS BEFORE ANY WORK AT 1-800-257-7777. NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION AT 410-313-1870 AT LEAST 24-HOURS BEFORE STARTING ANY WORK. (1 WEEK)
3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND SUPER SILT FENCE. (2 DAYS)



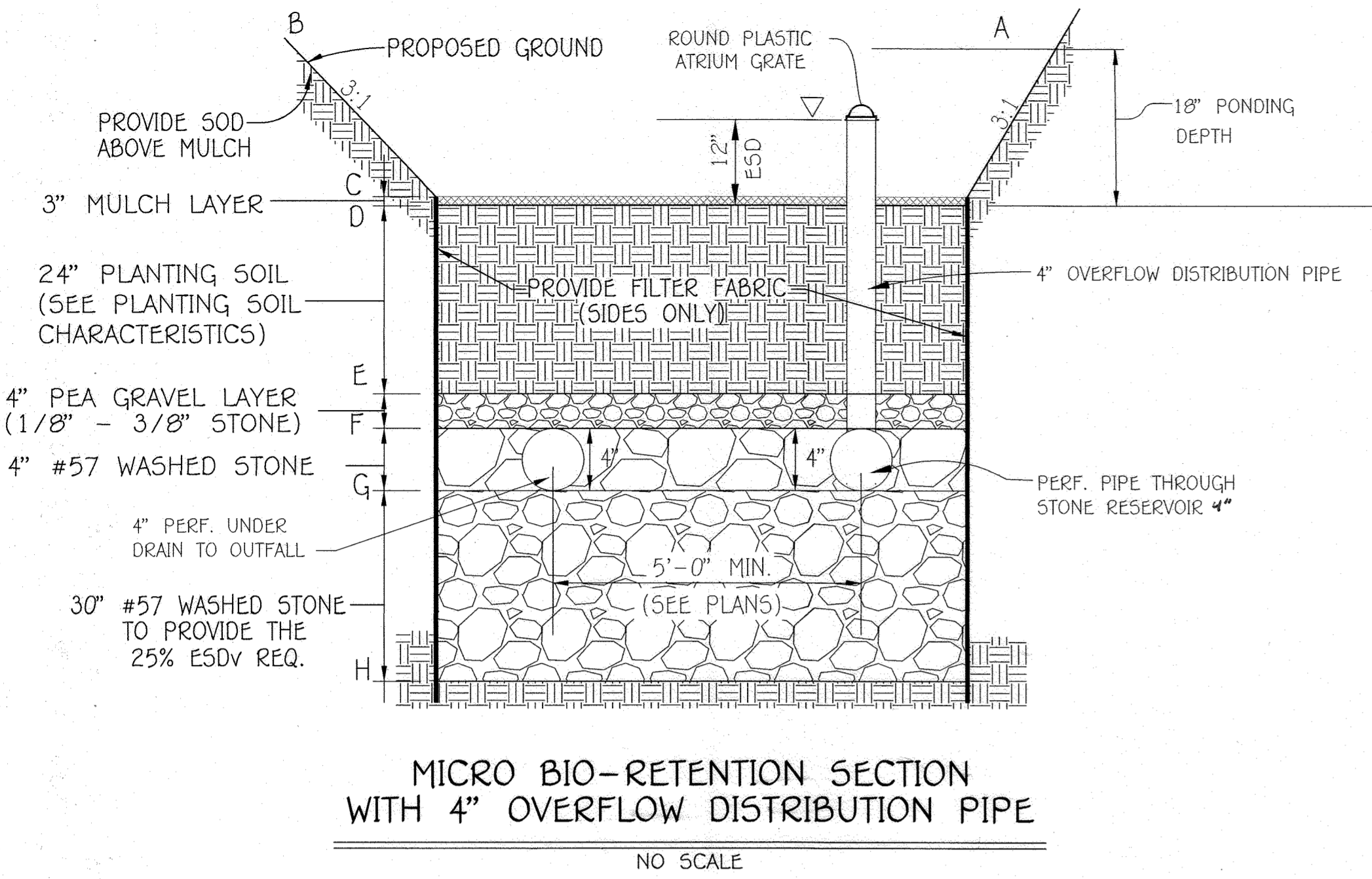
- CONSTRUCTION SPECIFICATIONS
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DERIVED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DERIVABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION OF CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND BEED GERMINATION AND NON-DURABLE TO THE POINT OF REMOVAL.



- CONSTRUCTION SPECIFICATIONS
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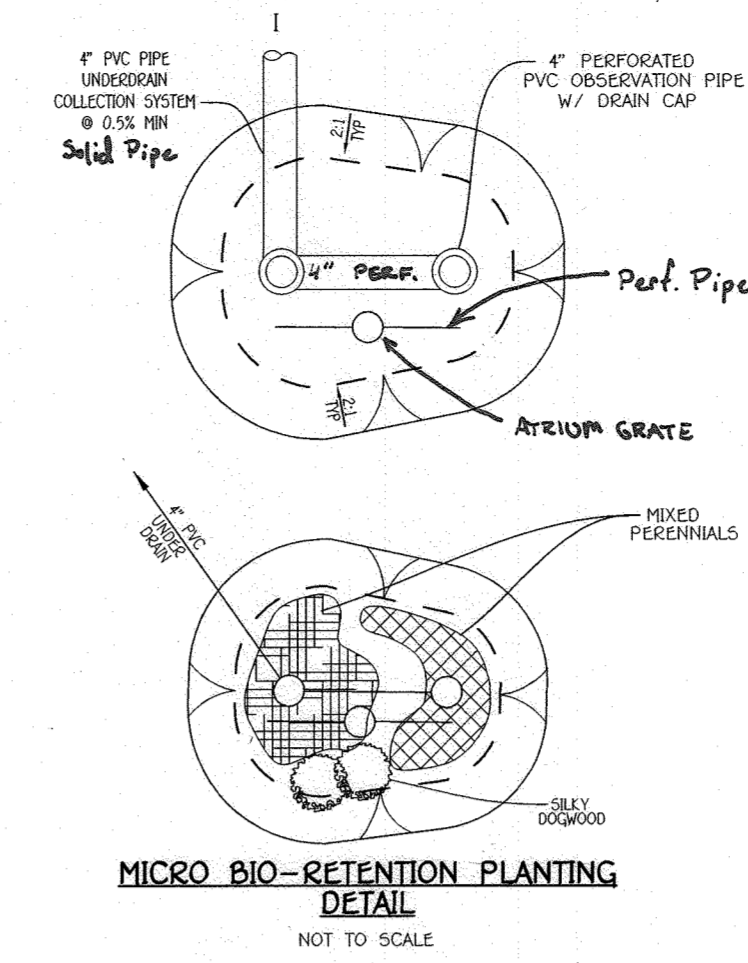
SEDIMENT AND EROSION CONTROL NOTES & DETAILS
MA PROPERTY, LOT 2
4335 Centennial Lane, Ellicott City, MD 21042
(A Single Family Dwelling)
Plat Ref: 17794
Zoning: R-20
DATE: AUGUST 2010



### OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (M-6)

1. The owner shall maintain the plant material, mulch layer and soil layer annually. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland stormwater design manual volume II, table A.4.1 and 2.
2. The owner shall perform a plant in the spring and in the fall each year. During the inspection, the owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material. Treat diseased trees and shrubs and replace all deficient stakes and wires.
3. The owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.
4. The owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.

MICRO-BIORETENTION									
MICRO-BIORETENTION FILTER	A	B	C	D	E	F	G	H	I
# 1	478.50	479.00	477.25	477.00	475.00	474.67	474.33	471.83	471.06



MICRO-BIORETENTION PLANT MATERIAL		
MICRO-BIO 1 QUANTITY	NAME	MAXIMUM SPACING (FT.)
65	MIXED PERENNIALS	1.5 TO 3.0 FT.
1	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2899

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 12/14/20  
Chief, Division of Land Development Date

*[Signature]* 9/30/20  
Chief, Development Engineering Division Date

*[Signature]* 12-16-20  
Director Department of Planning and Zoning Date

**ENGINEER'S CERTIFICATE**

"I certify that this plan and erosion control represents a practical and workable plan based on a study of the site conditions and that it was prepared in accordance with the Howard Soil Conservation District."

*[Signature]* 9/9/20  
Mr. Aldo M. [Name] Date

**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]* 08/04/2020  
Mr. Hong Tao Ma Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 9/9/20  
Howard SCD Date

**OWNER/DEVELOPER**

Mr. Hong Tao Ma  
4260 Maisel Farm Lane  
Ellicott City, Maryland 21042  
410.493.4950  
greathomes111@yahoo.com

PERMIT INFORMATION CHART					
NO.	REVISION				DATE
SUBDIVISION: MA PROPERTY					
SECTION/AREA: ---			LOT No. LOT 2		
PLAT NO. 17794	BLOCK NO. N/A	ZONE R-20	TAX/ZONE 24	ELEC. DIST. 2ND	CENSUS TR. 601101

**SWM DETAILS-STORM DRAIN PROFILE**

**MA PROPERTY, LOT 2**  
4335 Centennial Lane, Ellicott City, MD 21042  
(A Single Family Dwelling)  
(Plat Ref. 17794)  
Zoning: R-20

TAX MAP NO: 24 PARCEL NO.: 1037 GRID NO.: 19  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE: AUGUST 2020  
SHEET 5 OF 5