

GENERAL NOTES

- 1. THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS AN ALTERNATIVE COMPLIANCE HAS BEEN APPROVED.
2. SUBJECT PROPERTY IS ZONED R-20 PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
3. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
4. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NO. 310B AND 3104 WERE USED FOR THIS PROJECT.
5. ALL AREAS ARE "MORE OR LESS".
6. TRACT BOUNDARY IS BASED ON A FIELD SURVEY PERFORMED BY BENCHMARK ENGINEERING, IN OCTOBER, 2022.
7. THERE ARE NO WETLANDS, STREAMS, THEIR BUFFERS, 100-YEAR FLOODPLAIN, OR 25% OR GREATER SLOPES WITH MORE THAN 20,000 SF OF CONTIGUOUS AREA LOCATED ON THIS PROPERTY. FIELD REVIEW WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC. RESULTS IN THEIR LETTER DATED OCTOBER 17, 2022.
8. THIS SITE IS WITHIN THE METROPOLITAN DISTRICT PER THE HOWARD COUNTY PLAN FOR WATER AND SEWER, DATED NOVEMBER, 2015.
9. TO THE BEST OF OUR KNOWLEDGE, INFORMATION, AND BELIEF, THERE ARE NO CEMETERIES OR HISTORIC STRUCTURES LOCATED ON THIS SITE.
10. THERE ARE EXISTING STRUCTURES LOCATED WITHIN THE LIMITS OF LOT 1. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLINGS ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATION REQUIREMENTS.
11. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:

- A) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE).
B) SURFACE - 6" OF CRUSHER RUN BASE WITH TAR AND CHIP COATING (1.5" MIN)
C) GEOMETRY - MAX 15% GRADE, MAX 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (W25 LOAD)
E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
12. THE REQUIRED PRE-SUBMISSION COMMUNITY MEETING WAS HELD ON NOVEMBER 29, 2022.
13. THIS DEVELOPMENT IS NOT SUBJECT TO THE REQUIREMENTS OF SECTION 16.1200 FOR FOREST CONSERVATION SINCE IT IS A MINOR SUBDIVISION THAT CREATES ONE ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL PER SECTION 16.1202(b)(vii).

- 14. PERIMETER LANDSCAPING FOR THIS DEVELOPMENT SHALL BE IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. FINANCIAL SURETY IN THE AMOUNT OF \$4,070.00 FOR 2 SHADE TREES (\$200 EACH), 2 EVERGREEN TREES (\$150 EACH) AND 317 FEET OF FENCE (\$10 PER LF) SHALL BE PAID AS PART OF THE GRADING PERMIT UNDER THE SITE DEVELOPMENT PLAN.
15. THE NOISE STUDY WAS PREPARED BY MARS GROUP IN OCTOBER, 2022. THE 65dBa 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 U.S. DEPT OF HOUSING AND URBAN DEVELOPMENT.
16. A TRAFFIC STUDY IS NOT REQUIRED SINCE THIS IS A MINOR SUBDIVISION, PER DESIGN MANUAL VOLUME III, SECTION 4.7.B.5

- 17. THE 85TH PERCENTILE SPEED STUDY WAS PREPARED BY MARS GROUP IN OCTOBER, 2022.
18. THE MULTIMODAL STUDY WAS PREPARED BY MARS GROUP IN OCTOBER, 2022.
19. THE STORMWATER MANAGEMENT REPORT WAS PREPARED BY BENCHMARK ENGINEERING, INC. IN NOVEMBER, 2022. STORMWATER MANAGEMENT FOR THIS DEVELOPMENT HAS BEEN PROVIDED VIA ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT PRACTICAL (ESD TO THE MEP) AND COMPLIES WITH THE "MARYLAND DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT ACT OF 2007" AND THE "HOWARD COUNTY DESIGN MANUAL VOLUME I, CHAPTER 5".
STORMWATER MANAGEMENT IS PROVIDED VIA ONE M-6 MICRO BIO-RETENTION PRACTICE. IT SHALL BE OWNED AND MAINTAINED BY THE OWNER OF LOT 2.
20. A TEST PIT FOR STORMWATER MANAGEMENT WAS DUG BY HILLIS-CARNE'S ON OCTOBER 18, 2022. THE TEST PIT LOG GAS BEEN INCORPORATED INTO THE STORMWATER MANAGEMENT REPORT.
21. THIS DEVELOPMENT IS IN ACCORDANCE WITH SECTION 16.127 "RESIDENTIAL INFILL DEVELOPMENT" OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

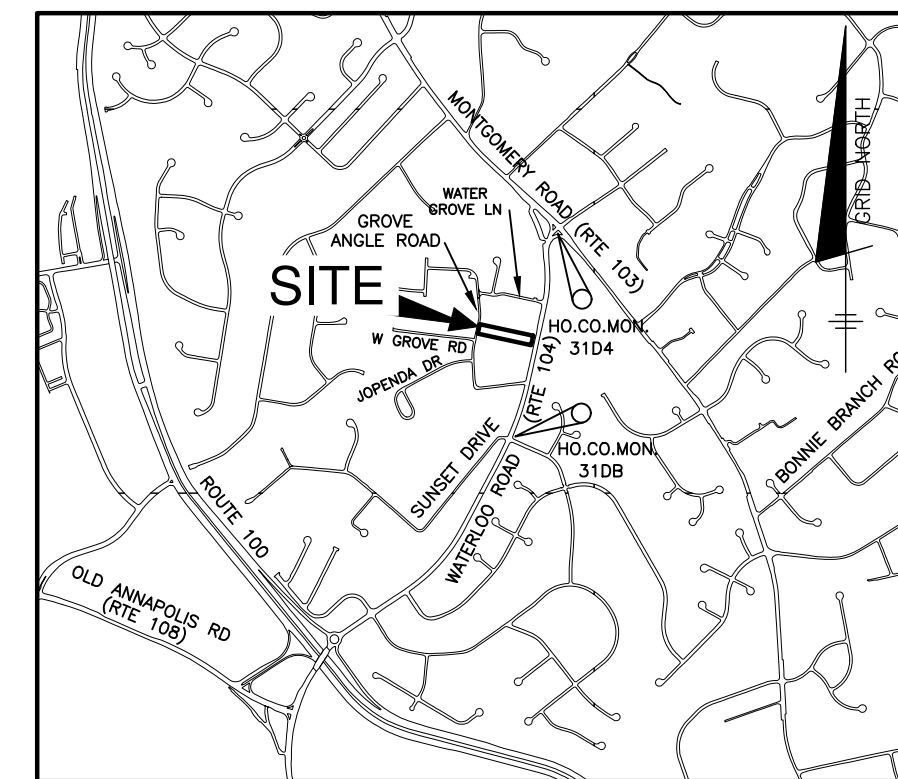
- 22. OPEN SPACE REQUIREMENTS ARE BEING PROVIDED BY A FEE-IN-LIEU PAYMENT IN THE AMOUNT OF \$1,500.00 SINCE THIS SUBDIVISION DOES NOT UTILIZE THE OPTIONAL LOT SIZE METHOD, THE SIZE OF THE AREA REQUIRED FOR DEDICATED OPEN SPACE IS LESS THAN 1/4 ACRE, AND THE OPEN SPACE WOULD HAVE NO ENVIRONMENTAL OR RECREATIONAL PURPOSE PER SECTION 16.121(b)(2).
23. THIS PROPERTY IS SUBJECT TO SECTION 16.1107(b)(1)(v) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO ALLOW FOR A SINGLE LOT FAMILY MEMBER EXEMPTION.
24. A FEE-IN-LIEU REQUEST FOR SIDEWALK IMPROVEMENTS ALONG GROVE ANGLE ROAD AND MD RTE 104 (WATERLOO ROAD) IN THE AMOUNT OF \$9,184.60 WAS APPROVED ON JANUARY 9, 2023 AND SHALL BE APPLIED TO CAPITAL PROJECT NUMBER J-4711.
25. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPERS EXPENSE.

- 26. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
27. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
28. REFUSE COLLECTION AND MAIL DELIVERY FOR LOT 2 IS PROVIDED AT THE JUNCTION OF THE PRIVATE DRIVEWAY AND THE ROAD RIGHT-OF-WAY.
29. APPROVAL OF A SITE DEVELOPMENT PLAN IS REQUIRED FOR THE DEVELOPMENT OF LOT 2 PRIOR TO ISSUANCE OF ANY GRADING OR BUILDING PERMITS FOR NEW HOUSE CONSTRUCTION IN ACCORDANCE WITH SECTION 16.105 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
30. WATER AND SEWER SERVICE TO LOT 2 WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 16.122B OF THE HOWARD COUNTY CODE. PUBLIC WATER AND SEWER ALLOCATIONS SHALL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
31. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
32. WATER AND SEWER IS PUBLIC. THE CONTRACT NUMBERS ARE 64-W AND 302-S. A NEW WATER AND SEWER SERVICE (N.W.S.S.) AGREEMENT SHALL BE EXECUTED FOR WATER AND SEWER HOUSE CONNECTION HOOKUP TO THE PUBLIC MAINS.
33. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING 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.
34. THIS PROJECT IS LOCATED IN THE RED HILL BRANCH OF THE LITTLE PATUXENT WATERSHED #02131105.
35. THIS SUBDIVISION IS SUBJECT TO SECTION 13.402(c)(4) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS FOR MODERATE INCOME HOUSING UNITS. THIS SHALL BE ACCOMPLISHED VIA FEE-IN-LIEU PAYMENT THAT IS TO BE CALCULATED AND PAID AT THE TIME OF BUILDING PERMIT ISSUANCE FOR LOT 2 AND FOR LOT 1 IF THE EXISTING HOUSE IS EVER DEMOLISHED.
36. FOR DRIVEWAY APRON REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06. A DRIVEWAY CULVERT IS NOT REQUIRED SINCE THE CALCULATED FLOW OVER THE DRIVEWAY IS LESS THAN THE AMOUNT REQUIRED FOR A CULVERT (5cfs)
37. WP-23-072, AN ALTERNATIVE COMPLIANCE TO SECTION 16.119(f)(1) TO ALLOW THE EXISTING DRIVEWAY SERVING LOT 1 TO CONTINUE TO ACCESS FROM MD ROUTE 104 WAS APPROVED ON FEBRUARY 27, 2023 WITH THE FOLLOWING CONDITIONS:
1. ACCESS TO THE SITE IS RESTRICTED TO THE ACCESS POINTS APPROVED UNDER F-23-025
2. ADD THE AC REQUEST NUMBER, PURPOSE, SECTION, DATE, AND CONDITIONS ON ALL SUBSEQUENT PLAN SUBMISSIONS.

SUPPLEMENTAL F-PLANS
WELLS PROPERTY
LOTS 1 and 2

LEGEND OF SYMBOLS

- EXISTING CONTOURS
EXISTING TREELINE
NRCS SOILS DELINEATION LINE
NRCS SOILS TYPE
LIMIT OF SUBMISSION
EXISTING FENCE LINE
EXISTING SEWER
EXISTING WHC
EXISTING OVERHEAD LINES
EXISTING POWER POLE
PROPOSED ROOF DRAIN
RIGHT-OF-WAY DEDICATION
BUILDING RESTRICTION LINE
EXISTING FOREST CON EASEMENT
TEST PIT LOCATION
UNMITIGATED 65dBa NOISE CONTOUR
EXISTING TREE



VICINITY MAP
SCALE: 1" = 2000'

ADC MAP: 4936
GRID: C3

BENCHMARKS
HORIZONTAL: MARYLAND NAD83
VERTICAL: NAVD83

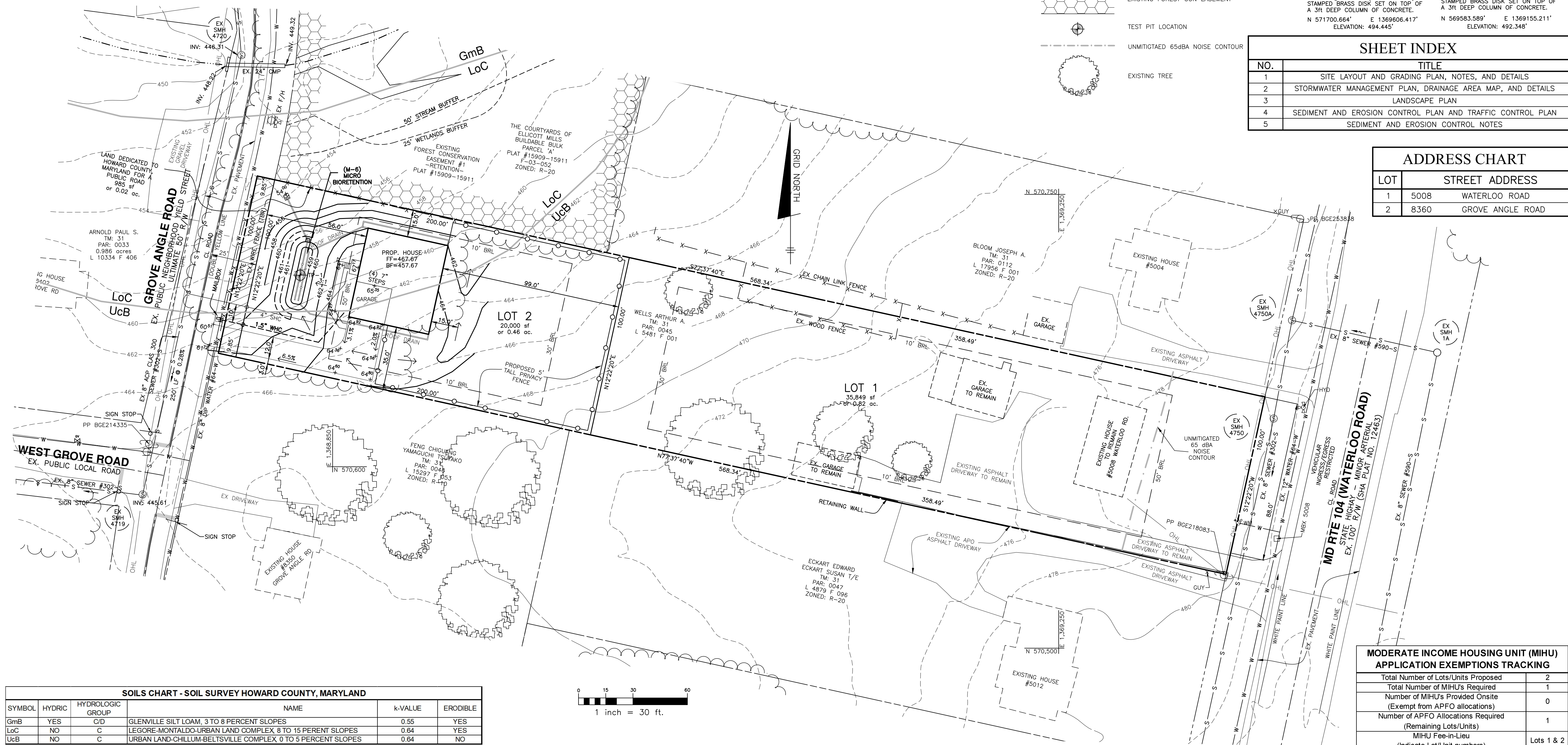
HO. CO. #3104 (AKA: 2843004) HO. CO. #310B
STAMPED BRASS DISK SET ON TOP OF A 3" DEEP COLUMN OF CONCRETE. STAMPED BRASS DISK SET ON TOP OF A 3" DEEP COLUMN OF CONCRETE.
N 571700.664' E 1369606.417' ELEVATION: 494.445' N 569583.589' E 1369155.211' ELEVATION: 492.348'

SHEET INDEX

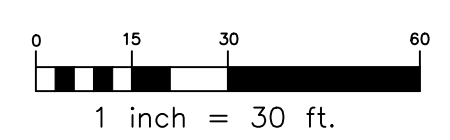
Table with 2 columns: NO. and TITLE. Lists sheets 1 through 5 including Site Layout and Grading Plan, Stormwater Management Plan, etc.

ADDRESS CHART

Table with 3 columns: LOT, STREET ADDRESS, and ADDRESS. Shows lot 1 at 5008 Waterloo Road and lot 2 at 8360 Grove Angle Road.



SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND. Table with columns: SYMBOL, HYDRIC, HYDROLOGIC GROUP, NAME, k-VALUE, ERODIBLE. Lists soil types GmB, LoC, UcB.



STANDARD STORMWATER MANAGEMENT PRACTICE CHART. Table with columns: LOT NUMBER, ADDRESS, MICRO-BIORETENTION (M-6 NUMBER).

STORMWATER MANAGEMENT SUMMARY CHART - INDIVIDUAL PRACTICES. Table with columns: Practice, DA (sf), Imp Area (sf), Imp %, Rv, Pe Required, Total ESDv Required, 75% ESDv ponding Required, 25% ESDv (cf) below Provided, Total ESDv Provided, Pe Provided, Rev (cf) Required, Rev (cf) Provided, Ownership.

APPROVED: DEPARTMENT OF PLANNING AND ZONING. Includes signature of Chad Edmondson, dated 3/29/2023.

BENCHMARK ENGINEERING, INC. logo and contact information. Includes Professional Certification seal for Arthur A. Wells, dated 03.17.2023.

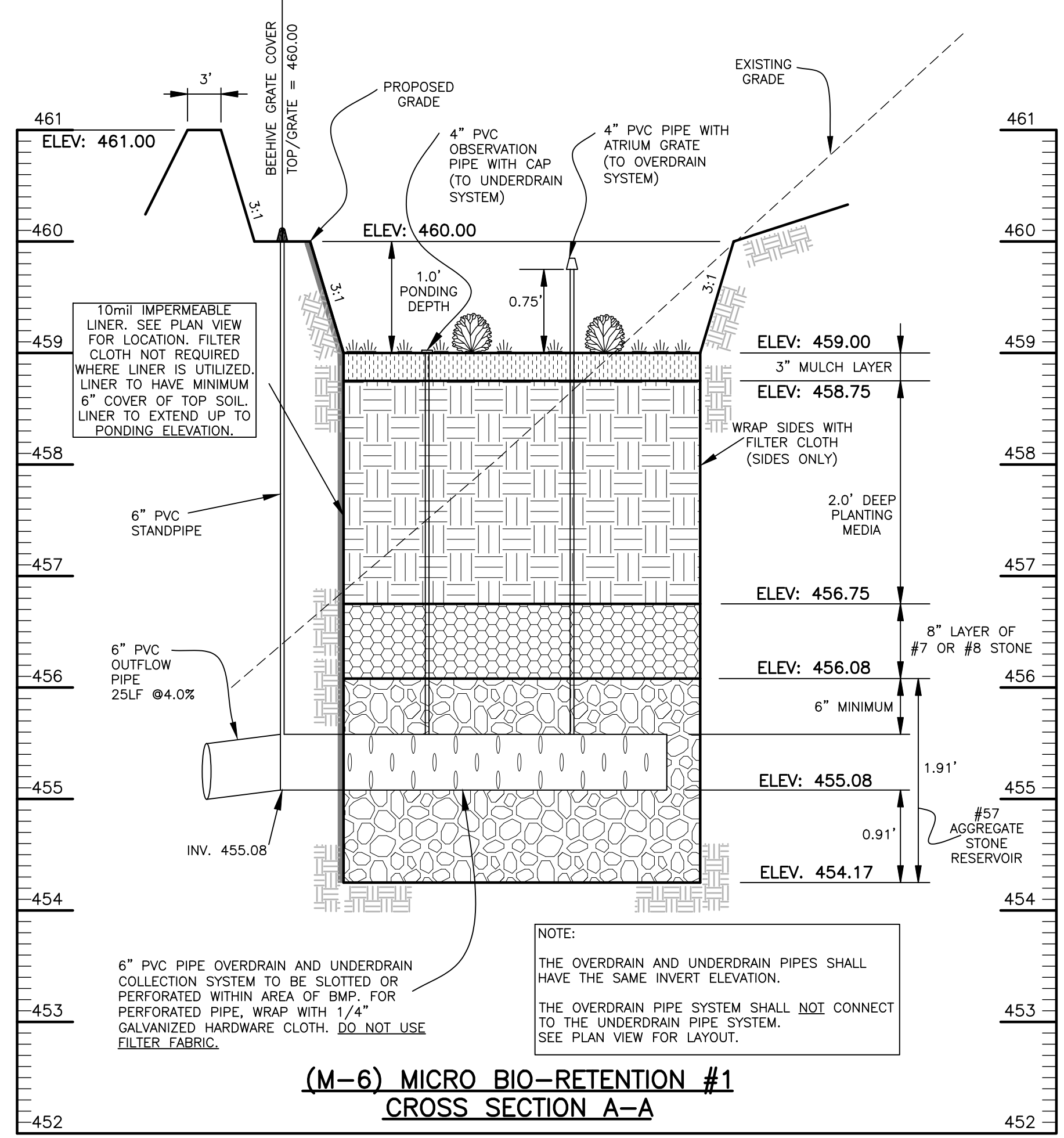
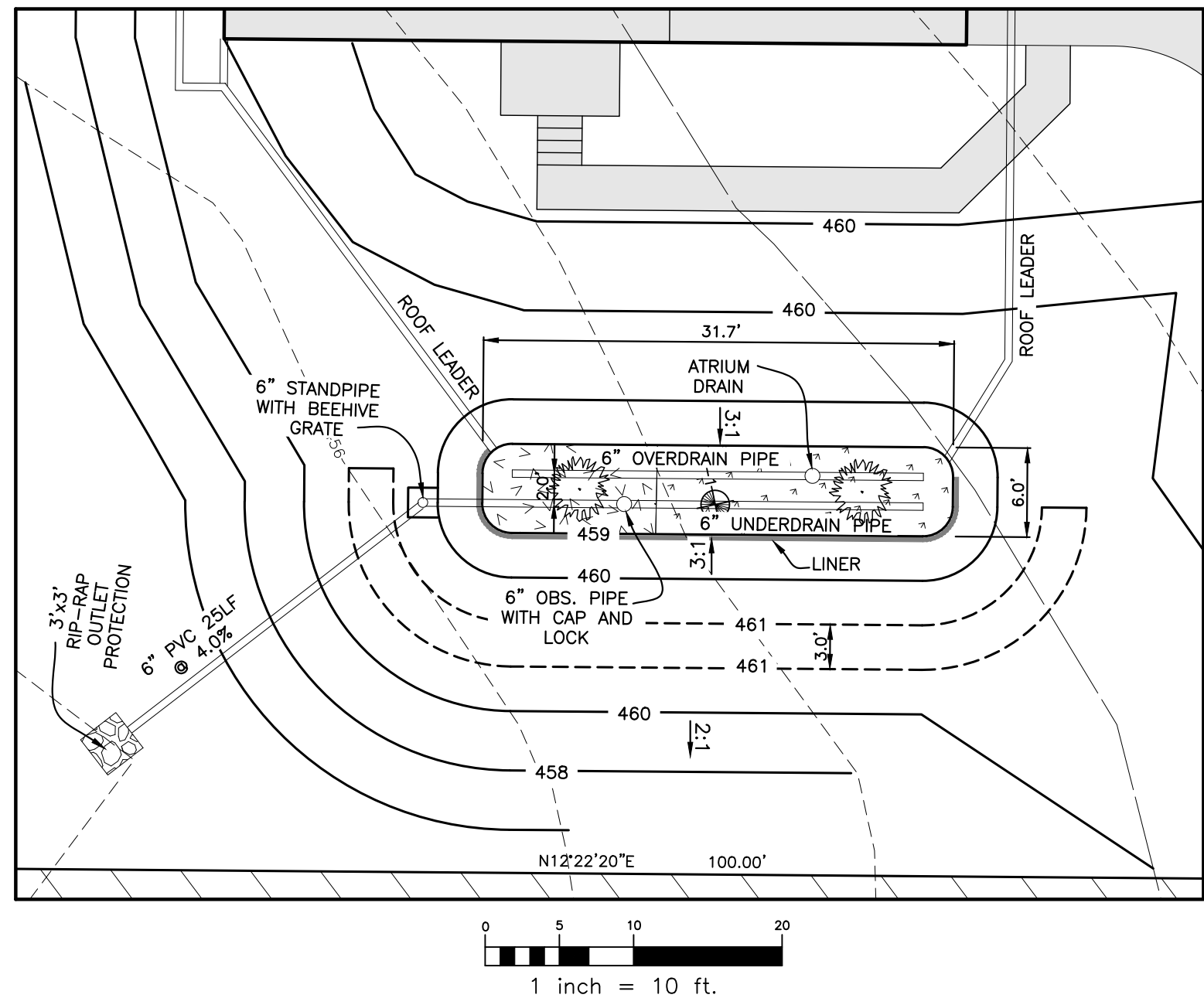
OWNER: ARTHUR A. WELLS, 5008 WATERLOO ROAD, ELLICOTT CITY, MARYLAND 21043. DEVELOPER: JACLYN WELLS, 5008 WATERLOO ROAD, ELLICOTT CITY, MARYLAND 21043. SITE LAYOUT AND GRADING PLAN, NOTES, AND DETAILS. DATE: MARCH 9, 2023. SHEET 1 OF 5.

MODERATE INCOME HOUSING UNIT (MIHU) APPLICATION EXEMPTIONS TRACKING. Table with columns: Description, Quantity. Shows 2 total lots proposed, 1 MIHU provided onsite, 1 APFO allocation required.

TEST PIT LOG		Test Pit No.: B-1	
PROJECT	5008 Waterloo Road	PROJECT NO.	22630A
CLIENT	Jackie Wells	DATE	10/18/22
LOCATION	Ellicott City	ELEV.	
EXCAVATION METHOD		LOGGER	
Groundwater depth - At completion: Dry		Cave-in depth:	
ELEVATION/DEPTH	SOIL SYMBOLS AND SAMPLES	USCS	DESCRIPTION
0	SM		Topsoil - 5"
	SC		Dark brown, moist, silty SAND (SM) Brown, moist, clayey SAND (SC)
5			
	SM		Brown, moist, silty SAND, some gravel (SM) Hard excavation at 10'
10			Bottom of test pit at 10'
15			
20			
25			

(M-6) Micro Bio-Retention Landscaping Chart				
PLANT NAME	COMMON NAME	Surface Area TYPE	SIZE	MB #1 QUANTITY
Comus Amomum	Silky Dogwood	deciduous shrub	18-24" ht. #3 CAN	2
Echinacea Purpurea	Purple Coneflower	perennial	2 gal. container	12
Juncus Effusus	Common Rush	perennial	1 qt.	35

PLANTING LEGEND	
SYMBOL	NAME
	SILKY DOGWOOD
	PURPLE CONEFLOWER
	COMMON RUSH

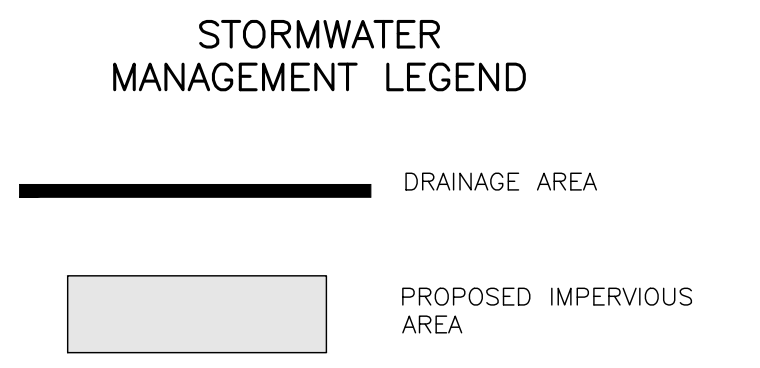
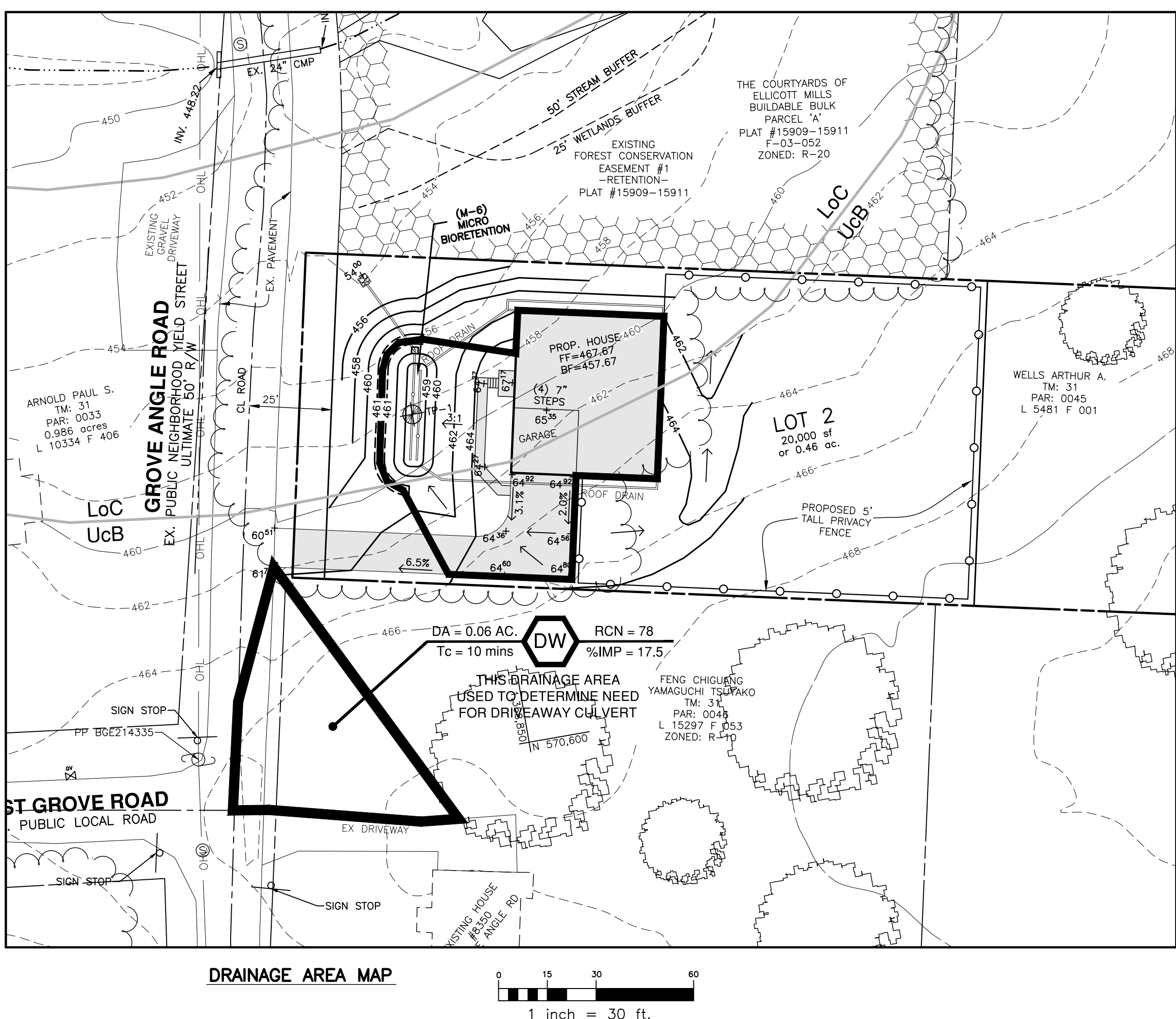


- OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)**
- The Owner shall maintain the plant material, mulch layer and soil layer annually. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material 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.
 - The Owner shall perform a plant inspection in the spring and in the fall of 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.
 - 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 the new layer is applied.
 - The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.

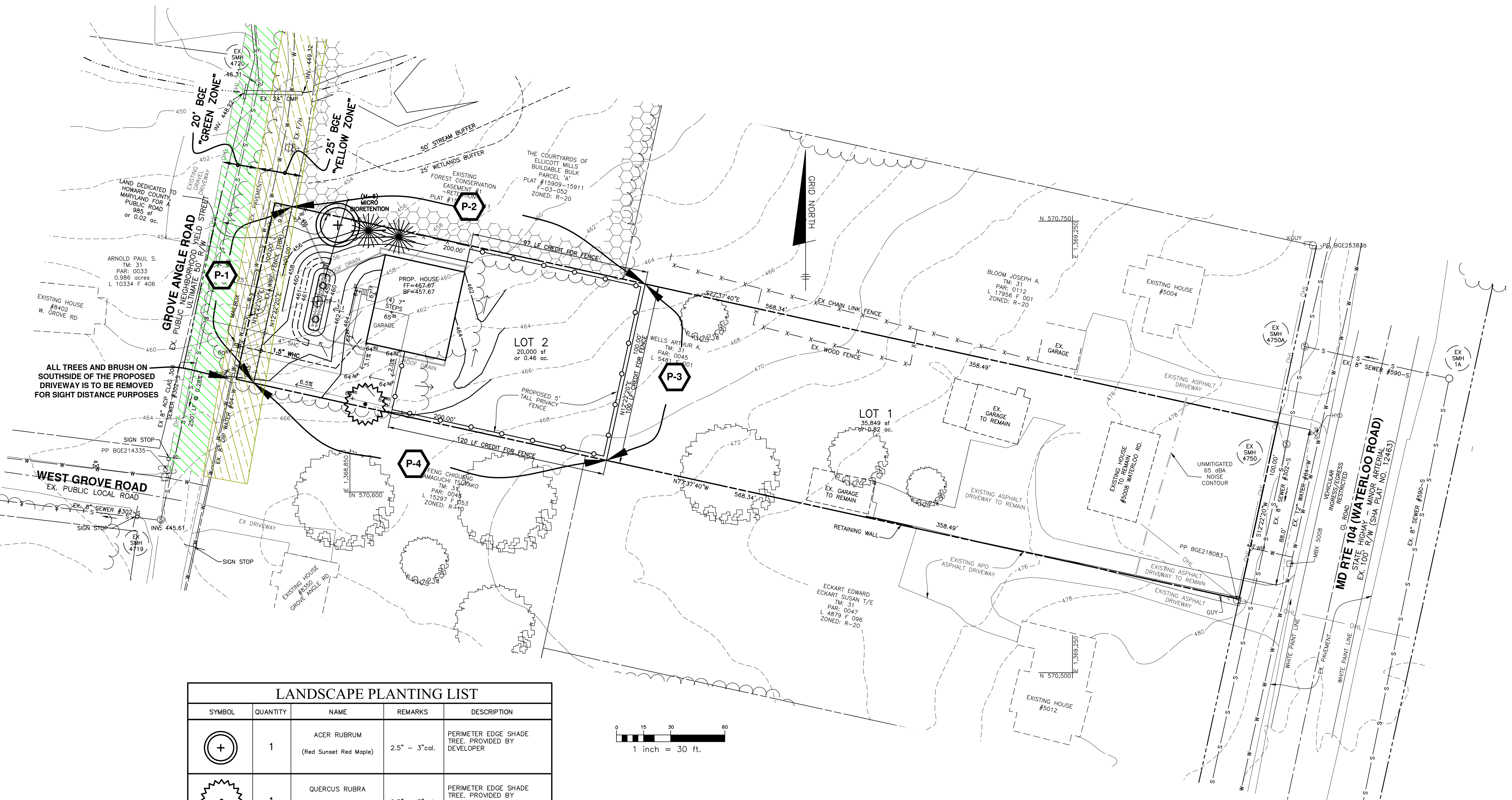
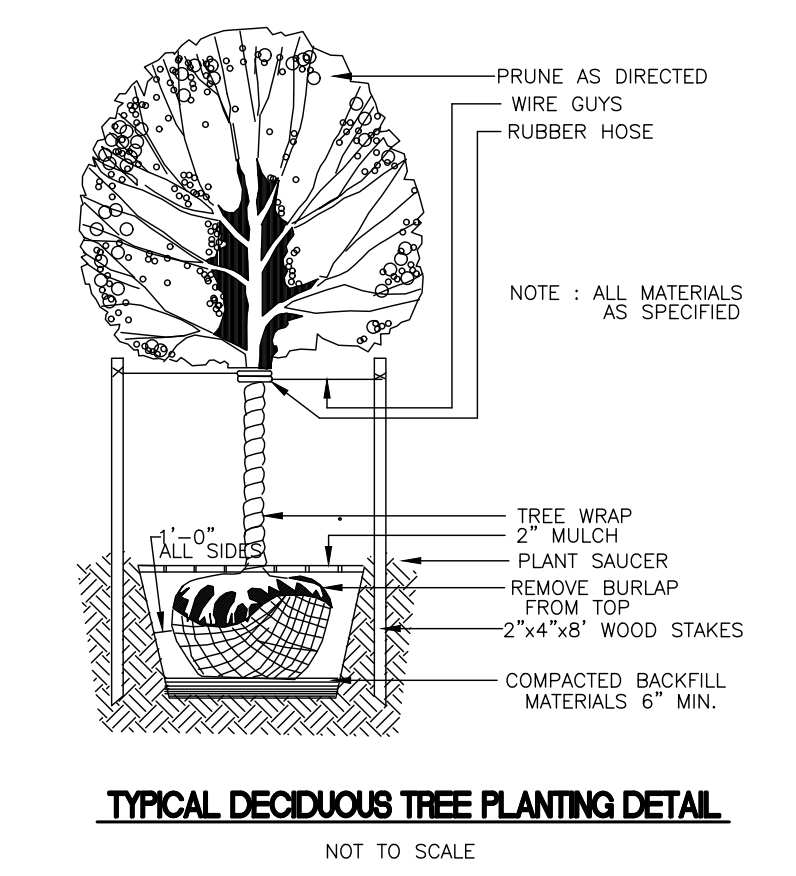
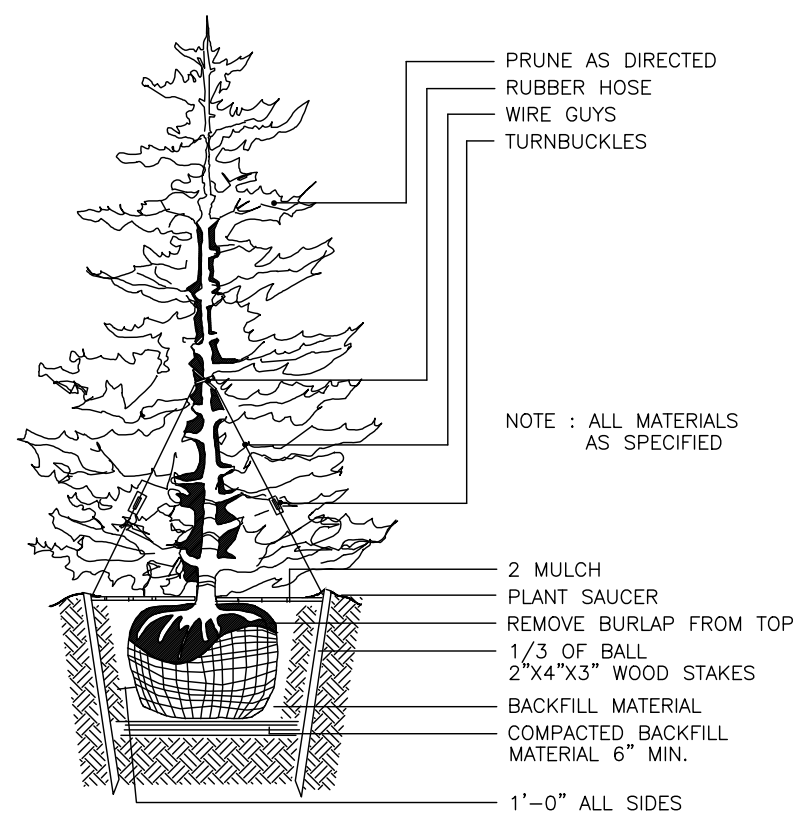
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
Designed by:	3/29/2023
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
Designed by:	3/29/2023
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE

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

Table B.4.1 Materials Specifications for Micro-Bioretenion, Rain Gardens & Landscape Infiltration-			
Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3' of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/2-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; F _c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required; 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) <i>not using previously approved State or local standards</i> requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.



 3300 N. RIDGE ROAD & SUITE 140 • ELICOTT CITY, MARYLAND 21043 (P) 410-465-8105 (F) 410-465-6644 WWW.BE-ENR.COM		PROFESSIONAL CERTIFICATION: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 22394, Expiration Date: 6-30-2023.	OWNER: ARTHUR A. WELLS 5008 WATERLOO ROAD ELICOTT CITY, MARYLAND 21043 410-207-2188	DEVELOPER: JACLYN WELLS 5008 WATERLOO ROAD ELICOTT CITY, MARYLAND 21043 410-207-2188	WELLS PROPERTY LOTS 1 AND 2 TAX MAP: 31 - GRID: 13 - PARCEL: 45 ZONED: R-20 ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND
NO. DATE REVISION		DATE: MARCH 9, 2023 SCALE: AS SHOWN	BEI PROJECT NO. 3133 SHEET 2 OF 5	DESIGN: DBT DRAFT: DBT	STORMWATER MANAGEMENT PLAN, DRAINAGE AREA MAP, AND DETAILS



LANDSCAPE PLANTING LIST

SYMBOL	QUANTITY	NAME	REMARKS	DESCRIPTION
	1	ACER RUBRUM (Red Sunset Red Maple)	2.5" - 3" cal.	PERIMETER EDGE SHADE TREE. PROVIDED BY DEVELOPER
	1	QUERCUS RUBRA (Northern Red Oak)	2.5" - 3" cal.	PERIMETER EDGE SHADE TREE. PROVIDED BY DEVELOPER
	2	THUJA PLICATA (Green Giant)	5'-6' hgt	PERIMETER EDGE EVERGREEN TREE PROVIDED BY DEVELOPER

1 inch = 30 ft.

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 SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Jaclyn Wells 2023-03-16
JACLYN WELLS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
3/29/2023
CHIEF, DIVISION OF LAND DEVELOPMENT
3/29/2023
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**Schedule A
Perimeter Landscape Edge**

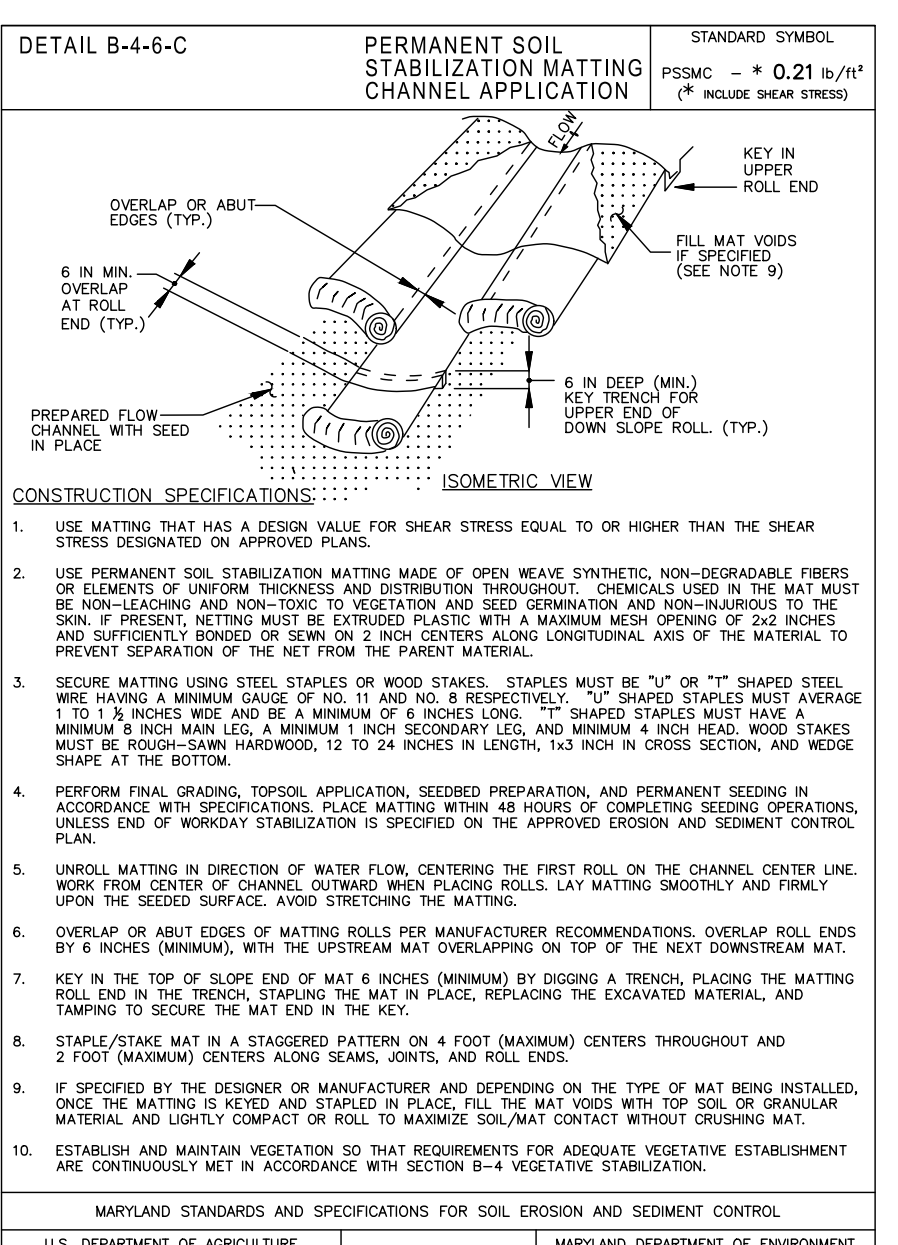
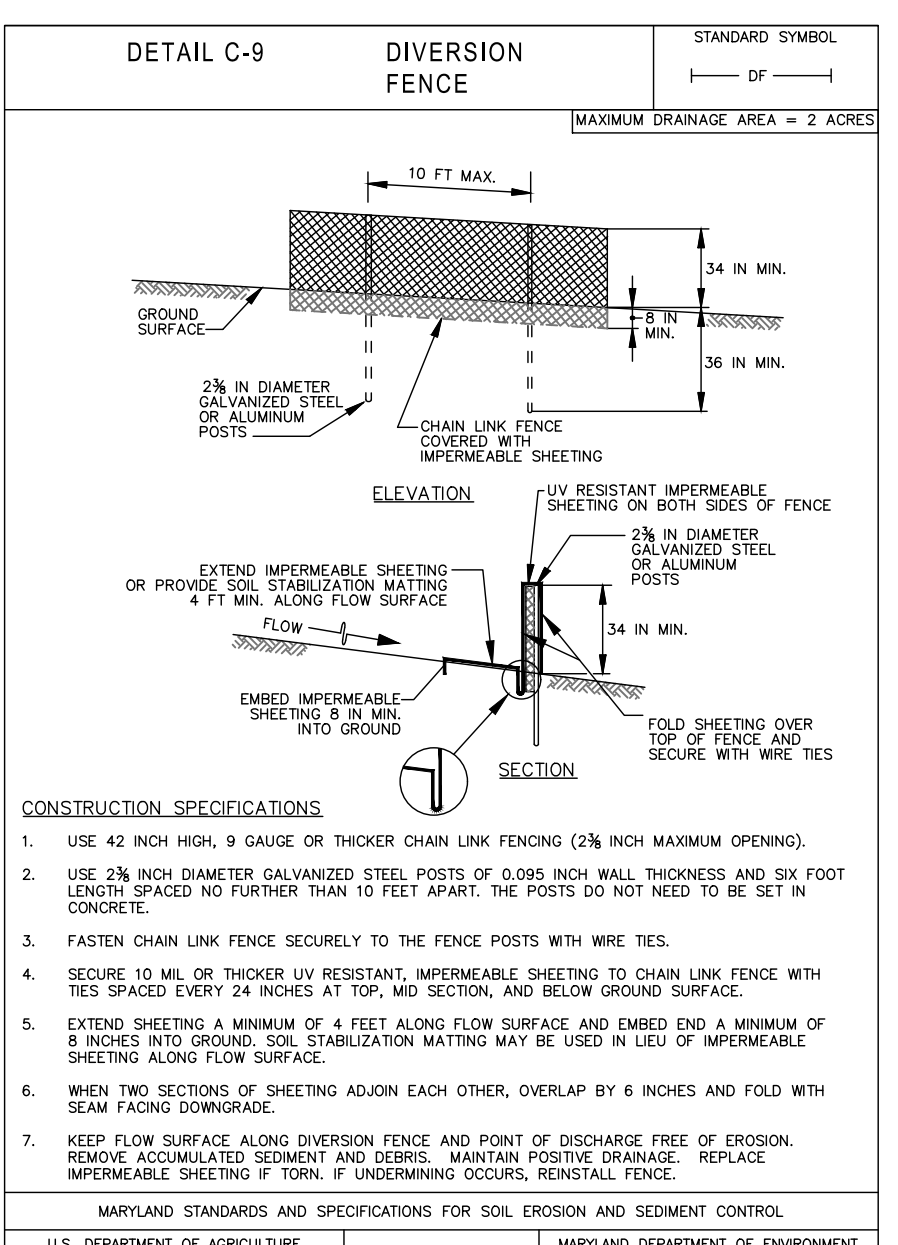
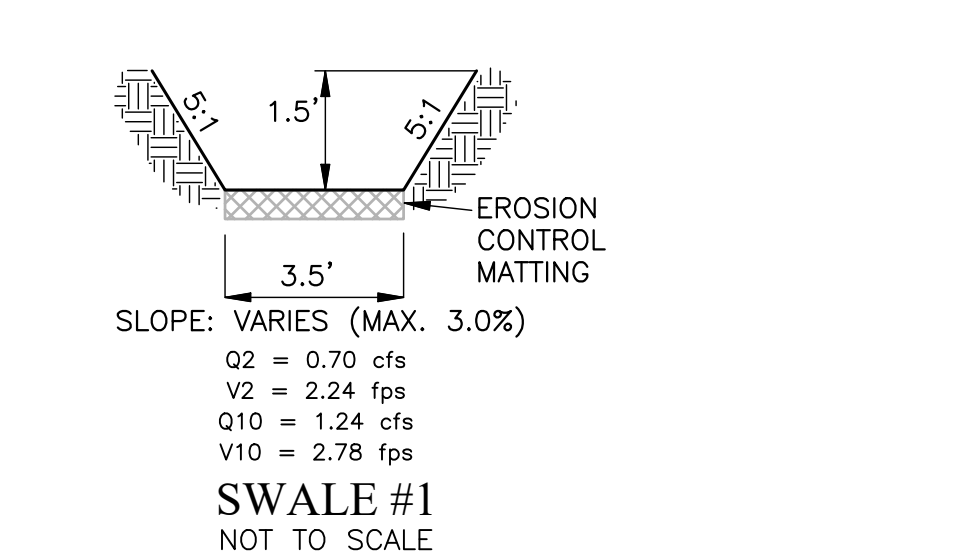
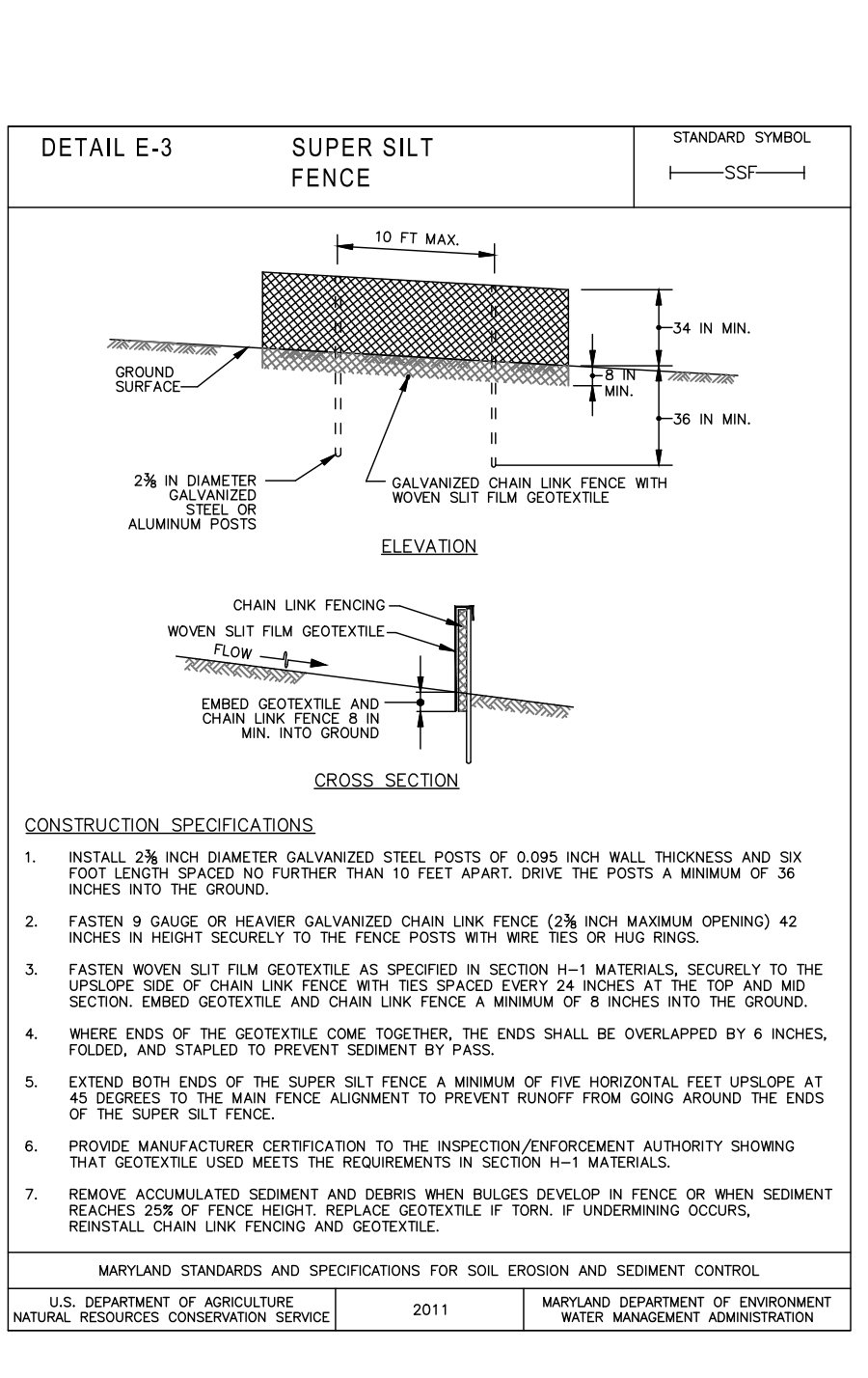
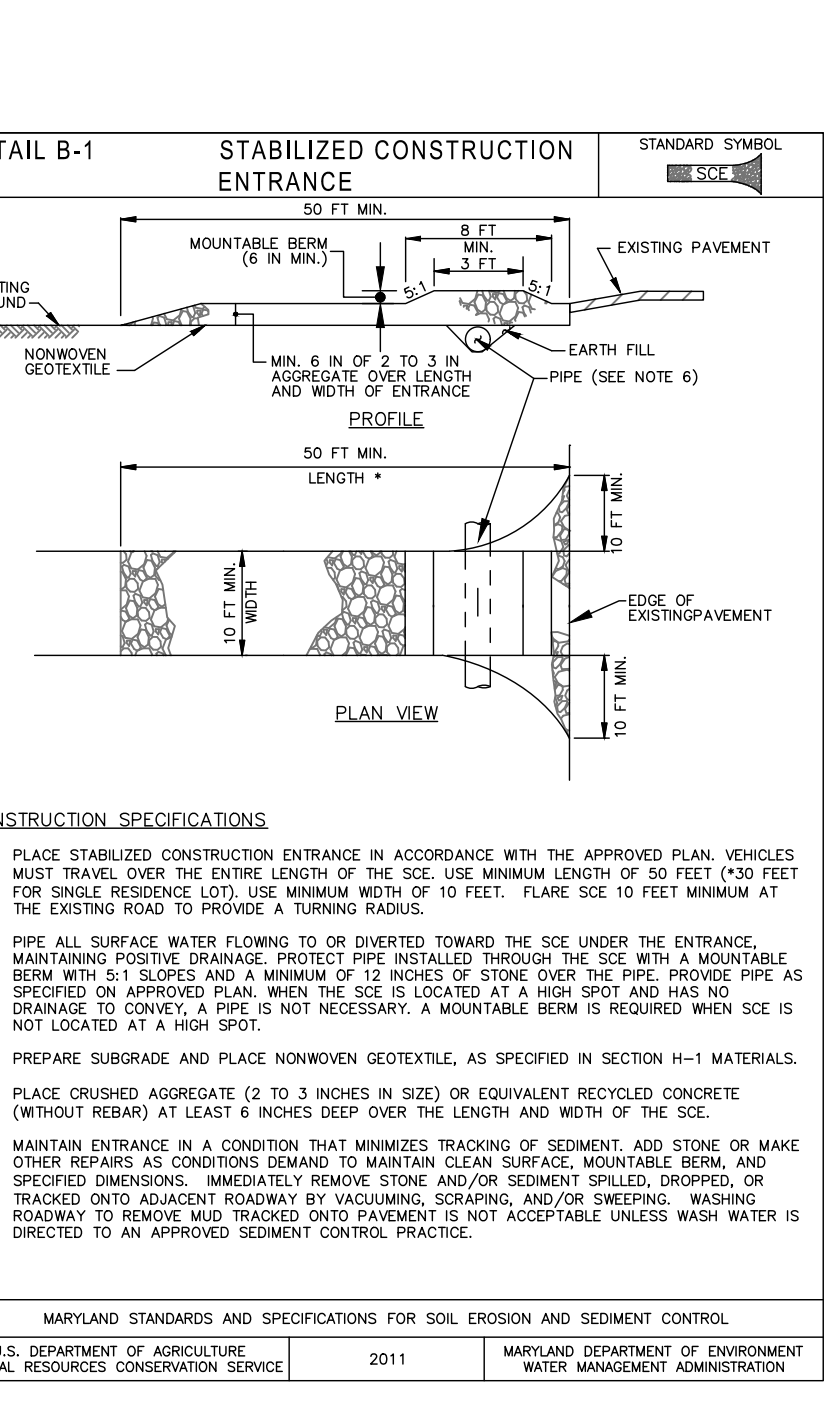
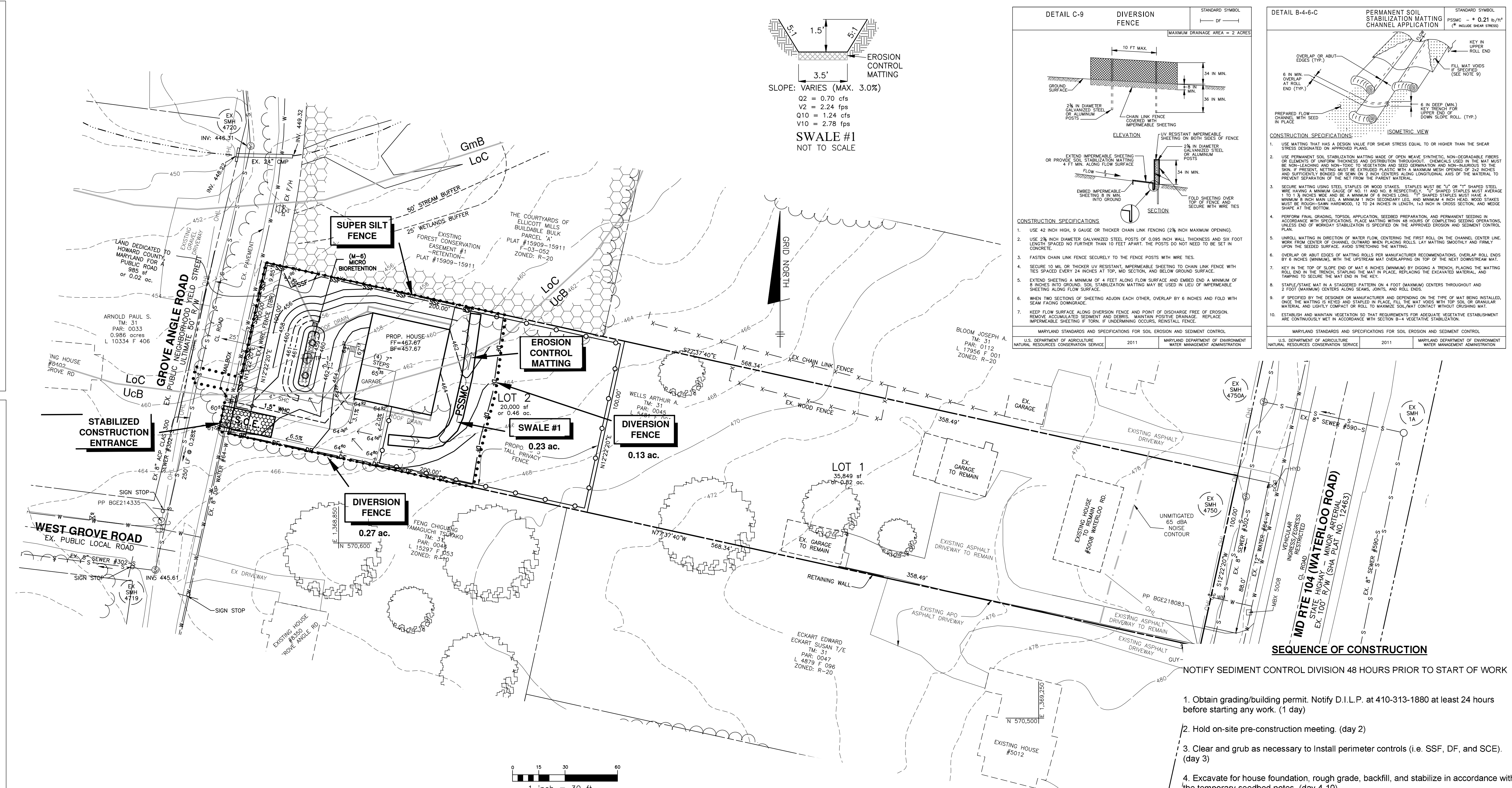
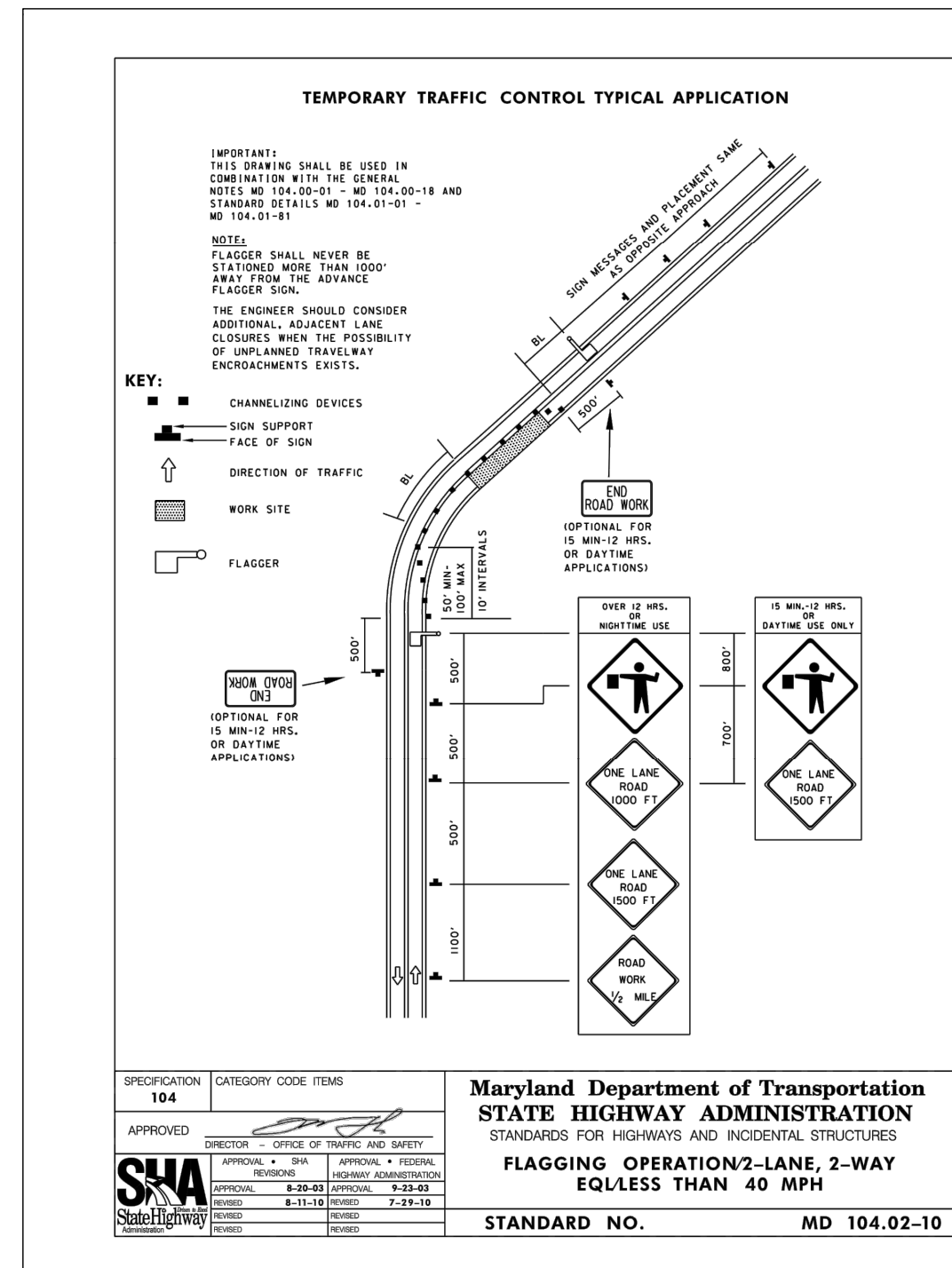
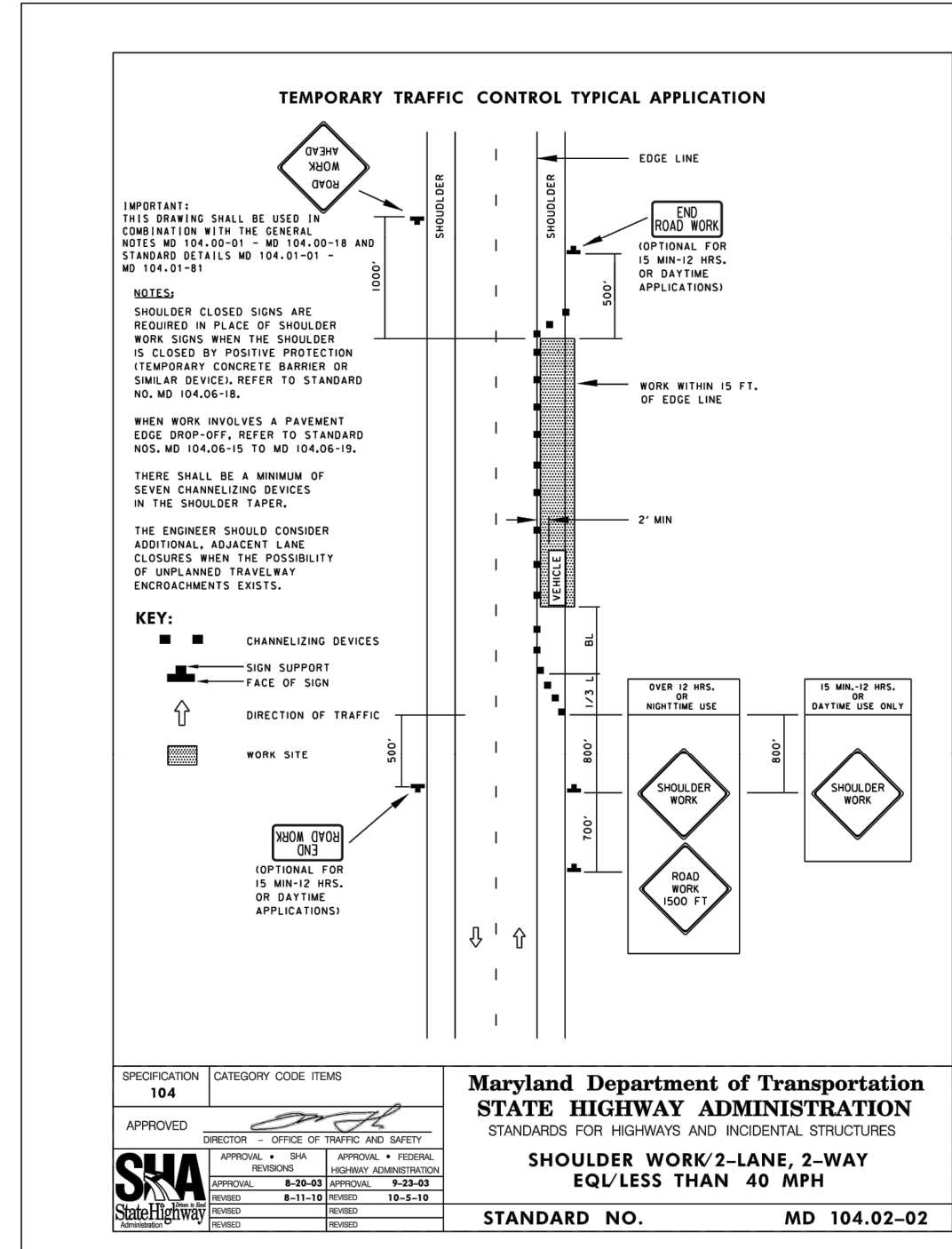
Category	P-1	P-2	P-3	P-4	Totals
Landscape Type	N/A	A	A	A	
Linear Feet of Road Frontage or Perimeter	100	200	100	200	
Credit for Existing Vegetation (Yes, No, Linear Feet)	0	0	0	0	
Credit for Wall, Fence, or Berm (Yes, No, Linear Feet)	0	97	100	120	
Linear Feet of Planting	100	103	0	80	
Number of Plants Required					
Shade Trees	0	2	0	1	3
Evergreen Trees	0	0	0	0	0
Other Trees (2:1 substitute)	0	0	0	0	0
Shrubs	0	0	0	0	0
Number of Plant Provided					
Shade Trees	0	1	0	1	2
Evergreen Trees	0	2	0	0	2
Other Trees (2:1 substitute)	0	0	0	0	0
Shrubs	0	0	0	0	0

LANDSCAPE NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- 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 WILL RESULT IN DENIAL OR DELAY IN RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
- THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, 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 OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- BGE ZONES: TREE HEIGHTS AT MATURITY SHALL BE LIMITED TO 25 FEET MAXIMUM WITHIN THE "GREEN ZONE". TREE HEIGHTS AT MATURITY SHALL BE LIMITED TO 40 FEET MAXIMUM WITHIN THE "YELLOW ZONE". IF TREES ARE TO BE PLANTED ON BERMS THE TREE HEIGHTS SHALL BE REDUCED BY THE HEIGHT OF THE BERM AS MEASURED ABOVE THE MEAN GROUND ELEVATION OF THE UTILITY POLE LINE.
- FINANCIAL SURETY IN THE AMOUNT OF \$4,070.00 FOR 2 SHADE TREES (\$300 EACH), 2 EVERGREEN TREES (\$150 EACH) AND 317 FEET OF FENCE (\$10 PER LF) SHALL BE PAID AS PART OF THE GRADING PERMIT UNDER THE SITE DEVELOPMENT PLAN.

2 evergreen trees will be substituted for 1 shade tree along P-2

<p style="text-align: center;">BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 3300 N. RIDGE ROAD SUITE 140 • ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM</p>		<p>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 22390, Expiration Date: 6-30-2023.</p> <p style="text-align: center;">STATE OF MARYLAND JACLYN WELLS PROFESSIONAL ENGINEER 22390</p>	<p>OWNER: ARTHUR A. WELLS 5008 WATERLOO ROAD ELLICOTT CITY, MARYLAND 21043 410-207-2188</p> <p>DEVELOPER: JACLYN WELLS 5008 WATERLOO ROAD ELLICOTT CITY, MARYLAND 21043 410-207-2188</p>	<p style="text-align: center;">WELLS PROPERTY LOTS 1 AND 2</p> <p>TAX MAP: 31 - GRID: 13 - PARCEL: 45 ZONED: R-20 ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND</p> <p style="text-align: center;">LANDSCAPE PLAN</p>
NO.	DATE	REVISION	DATE: MARCH 9, 2023	BEI PROJECT NO. 3133
			SCALE: AS SHOWN	SHEET 3 OF 5



DESIGN CERTIFICATION

I, CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Christopher Malagari, ENGINEER, DATE: 2023-03-17

DEVELOPERS CERTIFICATION

WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

Jaclyn Wells, DATE: 2023-03-16

APPROVED: **Alexander Bratchie**, DATE: 3/29/2023

APPROVED: **Chad Edmondson**, DATE: 3/29/2023

NO.	DATE	REVISION

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WELLS PROPERTY
 LOTS 1 AND 2
 TAX MAP: 31 - GRID: 13 - PARCEL: 45
 ZONED: R-20
 ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND

DEVELOPER: JACLYN WELLS, 5008 WATERLOO ROAD, ELLICOTT CITY, MARYLAND 21043, 410-207-2188

DATE: MARCH 9, 2023 **BEI PROJECT NO.:** 3133
SCALE: AS SHOWN **SHEET:** 4 OF 5

THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL ONLY.

