

SHEET INDEX	
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# FINAL CONSTRUCTION PLANS

## OLD MONTGOMERY MEADOWS

### 11 RESIDENTIAL SINGLE FAMILY LOTS

### 6TH ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND

### LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED HOUSE
- APPROXIMATE 100 YEAR FLOODPLAIN
- LIMIT OF DISTURBANCE
- PROP. MICRO BIOTENTION FACILITY
- PROP. DRYWELL
- TREE PROTECTION FENCING
- ESD DRAINAGE AREA
- SOIL DIVIDES
- SPECIMEN TREE (TO REMAIN)
- PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PUBLIC SEWER & UTILITY EASEMENT
- PUBLIC SWM, DRAINAGE & UTILITY EASEMENT
- FCE (RETENTION)
- FCE (REFORESTATION)
- EX. UNDERGROUND ELECTRIC
- EX. UNDERGROUND GAS
- EX. UNDERGROUND FIBER OPTIC/CABLE

### BENCH MARKS--(NAD'83)

36FO	EL.375.747	DISC SET ON TOP OF CONCRETE COLUMN SOUTH SIDE OF RTE 175, WEST OF DOBBIN ROAD.
N 559312.559	E 1363698.217	
36EB	EL.411.469	DISC SET ON TOP OF CONCRETE COLUMN OAKLAND MILLS RD. 440'S OF KILIMANJARO
N 560210.015	E 1359365.326	

### ADDRESS CHART

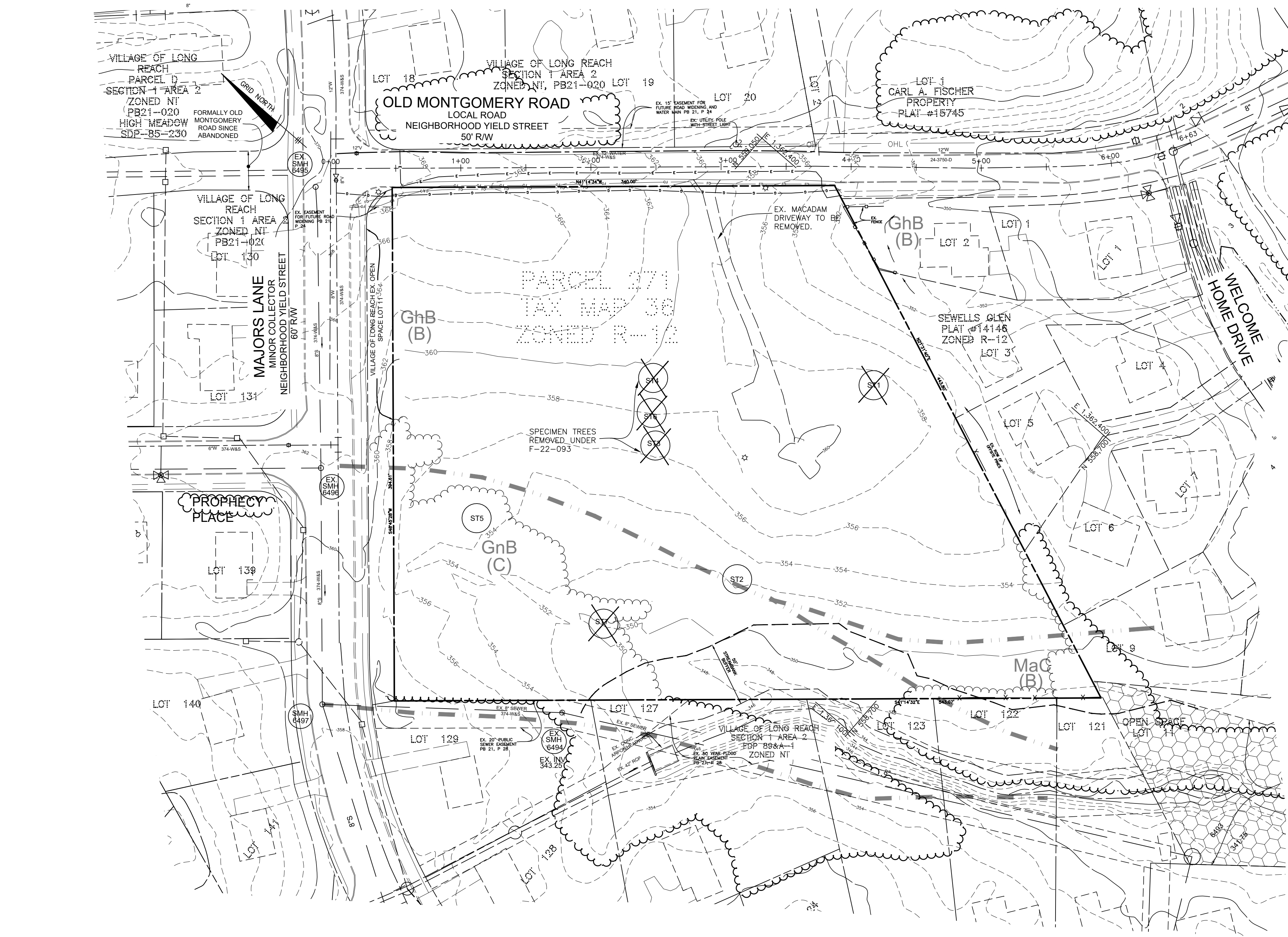
LOT NO.	ADDRESS
LOT 1	9005 OLD MONTGOMERY ROAD
LOT 2	9001 OLD MONTGOMERY ROAD
LOT 3	6400 MEADOWS LANE
LOT 4	6404 MEADOWS LANE
LOT 5	6408 MEADOWS LANE
LOT 6	6412 MEADOWS LANE
LOT 7	6416 MEADOWS LANE
LOT 8	6413 MEADOWS LANE
LOT 9	6417 MEADOWS LANE
LOT 10	6409 MEADOWS LANE
LOT 11	6405 MEADOWS LANE

### GENERAL NOTES

- THE SUBJECT PROPERTY IS ZONED R-12 PER THE 10.6.2013 COMPREHENSIVE ZONING PLAN.
- NO GRADING, REMOVAL OF VEGETATION OR NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- FLAG AND 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 ON THE PIPESTEM LOT DRAINAGE.
- ROAD DEDICATION FOR OLD MONTGOMERY ROAD TO BE DEDICATED TO HOWARD COUNTY MARYLAND FOR THE PURPOSES OF S PUBLIC ROAD. 0.08AC.
- THIS SUBDIVISION IS IN ACCORDANCE WITH SECTION 16.122B OF THE HOWARD COUNTY CODE.
- 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 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.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (2022). A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
- TOPOGRAPHY SHOWN HEREON BASED ON A FIELD SURVEY PREPARED BY BENCHMARK ENGINEERING, INC. DATED SEPTEMBER 2021 AND ARE 2' CONTROL INTERVALS. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH HOWARD COUNTY GIS AND AS-BUILT DOCUMENTS.
- THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS FOR THIS SITE ARE 36EB AND 36FO.
- THERE ARE NO STEEP SLOPES LOCATED ON THIS SITE.
- WATER IS PUBLIC CONTRACT NO. 374 WAS, DRAINAGE AREA IS PATUXENT.
- SEWER IS PUBLIC CONTRACT NO. 274 WAS, DRAINAGE AREA IS PATUXENT.
- THE STORMWATER MANAGEMENT METHODS FOR THIS DEVELOPMENT ARE DRYWELLS FOR THE HOUSES AND MICRO-BIOTENTION FACILITIES FOR THE DRIVEWAYS AND PROPOSED ROAD. THE DRYWELLS, MICRO-BIOTENTION FACILITY MBR-3 AND RAINGARDEN RG-4 ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNER. BIOTENTION FACILITY MBR-1 IS TO BE OWNED BY THE HOA AND JOINTLY MAINTAINED BY THE HOA AND HOWARD COUNTY. MICRO-BIOTENTION FACILITY MBR-2 IS TO BE OWNED AND MAINTAINED BY THE HOA.
- FLOODPLAIN STUDY WAS PREPARED FOR THE OFFSITE INTERMITTENT STREAM BY BENCHMARK ENGINEERING, INC. DATED DECEMBER 2022 AND APPROVED UNDER P-23-003 DATED FEBRUARY 11, 2023.
- THE FOREST STAND DELINEATION AND WETLANDS STUDY WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JANUARY 2022 AND APPROVED OCTOBER 2022 UNDER S-22-006. THERE ARE NO STREAMS OR WETLANDS LOCATED ON THE PROPERTY BASED ON A SITE ANALYSIS BY ECO-SCIENCE PROFESSIONALS DATED JANUARY 2022.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP DATED JUNE 13, 2022 AND APPROVED OCTOBER 19, 2022.
- SUMMARY OF FINDINGS FOR TRAFFIC ANALYSIS:
  - DATE OF REPORT: JUNE 2022
  - DATE OF COUNTS: JUNE 2022
  - REPORT SUBMITTED AS PART OF PLAN NUMBER S-22-006
  - COUNTS WERE TAKEN WHEN HOWARD COUNTY SCHOOLS WERE IN SESSION
  - EXISTING INTERSECTIONS STUDIED AT THE INTERSECTION OF STATE OR COUNTY JURISDICTION AND LABEL LOS FOR THE HORIZON YEAR OF EACH INTERSECTION: MD 175 @ TAMAR DRIVE (A/D 2025) AND TAMAR DRIVE @ OLD MONTGOMERY ROAD (A/A 2025)
- PROVIDE STATEMENT AS TO WHETHER MITIGATION IS REQUIRED AND EXPLAIN THE METHOD OF MITIGATION/IN LIEU FEE: NO MITIGATION/IN LIEU FEE IS REQUIRED.
- A SIGNATURE FOR THIS DEVELOPMENT WAS PREPARED BY BENCHMARK ENGINEERING, INC. AND APPROVED UNDER S-22-006.
- TWO RANGE OF ADDRESS SIGNS SHALL BE FABRICATED BY HOWARD COUNTY HIGHWAYS FOR THIS PROJECT.
- THESE SIGNS SHALL BE PAID FOR BY THE DEVELOPER. PLEASE CONTACT HOWARD COUNTY TRAFFIC AT 410-313-5752 FOR DETAILS.
- PROVIDING THE MINIMAL LOT SIZE OF 7,200SF AND A MINIMUM OF 40% OPEN SPACE.
- A GEOTECHNICAL ANALYSIS PREPARED BY GEOTECHNICAL LABORATORIES, INC. DATED NOVEMBER 25, 2022 AND APPROVED UNDER THIS PLAN.
- AN ALTERNATIVE COMPLIANCE TO SECTION 16.121 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS BY PROVIDING THE MINIMAL LOT SIZE OF 7,200SF AND A MINIMUM OF 40% OPEN SPACE.
- THE DEVELOPMENT WAS PRESENTED AT A VIRTUAL COMMUNITY INPUT MEETING DATED 11.22.22.
- EXISTING SEPTIC AND WELL HAVE BEEN ABANDONED PER THE HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS.
- AN ALTERNATIVE COMPLIANCE TO SECTION 16.1205(c) WAS APPROVED DATED OCTOBER 17, 2022 FOR THE REMOVAL OF SPECIMEN TREES ST11 THRU ST4, ST6 AND ST7. REFERENCE WP-22-093.
- CONDITIONS OF APPROVAL TO WP-22-093 PER THE DIRECTOR OF PLANNING AND ZONING, THE DIRECTOR OF THE DEPARTMENT OF RECREATION AND PARKS AND THE ADMINISTRATOR OF THE OFFICE OF COMMUNITY SUSTAINABILITY:
  - REMOVAL OF THE SIX SPECIMEN TREES IS TO BE MITIGATED AT 2:1 BY THE PLANTING OF 12 NATIVE TREES WITH A DBH OF 3". THE LOCATION OF THE MITIGATION TREES SHALL BE CLEARLY SHOWN AND LABELED ON SUBSEQUENT SUBDIVISION AND SITE PLANS.
  - APPROVAL IS FOR REMOVAL OF SPECIMEN TREES 1-4 AND 6 AND 7 AS SHOWN ON THE EXHIBIT PROVIDED WITH THE ALTERNATIVE COMPLIANCE APPLICATION.
  - INCLUDE A GENERAL NOTE WITH THE ALTERNATIVE PLAN FILE NUMBER, SUMMARY OF REQUEST, DECISION, DATE OF DECISION AND CONDITIONS OF APPROVAL ON ALL PLANS SUBMITTED TO THE COUNTY FOR REVIEW.
  - S-22-006 AND SUBSEQUENT PLAN SUBMITTALS SHALL MINIMIZE LOT ENROACHMENT INTO THE CRZ OF SPECIMEN TREE 5 TO LESS THAN 30% AND ST-5 SHALL BE PROTECTED WITHIN THE FOREST CONSERVATION EASEMENT AS SHOWN ON THE REVISED ALTERNATIVE COMPLIANCE APPLICATION EXHIBIT DATED SEPTEMBER 2022.
  - APPROVAL OF WP-22-093 IS FOR REMOVAL OF CITED SPECIMEN TREES ONLY. THE APPLICANT MUST COMPLY WITH COMMENTS AT PLAN REVIEW THAT MAY REQUIRE LAYOUT CHANGES IN ORDER TO MEET THE REGULATIONS.
  - SUBSEQUENT PLAN SUBMISSIONS SHOULD EXPLORE METHODS OF REMOVING THE BAMBOO THAT MAY PRESERVE ST-2. HOWEVER, COMPLETE REMOVAL OF THE BAMBOO IS THE PRIORITY IN ORDER TO PROTECT THE PROPOSED FOREST CONSERVATION AREAS FROM ENROACHMENT.
  - A NOISE STUDY IS NOT REQUIRED FOR THIS DEVELOPMENT PER SECTION 5.2.6.2 OF VOLUME III, COMPLETE STREETS AND BRIDGES.
  - THE FOREST CONSERVATION OBLIGATIONS FOR THIS SITE ARE PROVIDED THROUGH THE CREATION OF CONSERVATION EASEMENTS FOR 0.3 ACRES OF ONSITE FOREST TO BE RETAINED AND 0.6 ACRES OF PLANTING. SURETY FOR THE 0.6 ACRES OF PLANTING, \$13,068.00, WAS PAID UNDER THE DEVELOPER'S AGREEMENT FOR THIS SITE. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.120 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
  - DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAN FOR WATER, SEWER, STORM DRAINAGE AND OTHER PUBLIC UTILITIES AND FOREST CONSERVATION (COMBINED AS "FOREST CONSERVATION AREA") LOCATED IN, ON, OVER AND THROUGH LOTS/PARCELS. ANY CONVEYANCES OF THE AFORESAID LOTS/PARCELS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOTS/PARCELS. DEVELOPER SHALL EXECUTE AND DELIVER DEEDS FOR THE EASEMENTS HEREIN RESERVED TO HOWARD COUNTY. UPON COMPLETION OF THE PUBLIC UTILITIES AND THEIR ACCEPTANCE BY HOWARD COUNTY, THE FOREST CONSERVATION EASEMENTS, UPON COMPLETION OF THE DEVELOPER'S OBLIGATIONS UNDER THE FOREST CONSERVATION INSTALLATION AND MAINTENANCE AGREEMENT EXECUTED BY THE DEVELOPER AND THE COUNTY, AND THE RELEASE OF DEVELOPER'S SURETY POSTED WITH SAID AGREEMENT, THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEEDS OF EASEMENT IN THE LAND RECORDS OF HOWARD COUNTY. AND THE LANDSCAPE DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SURETY SHALL BE PROVIDED WITH THE DEVELOPER'S AGREEMENT, IN THE AMOUNT OF \$11,250.00 FOR 24 PERIMETER SHADE TREES, 3 PERIMETER EVERGREEN TREES AND 12 MITIGATED TREES FOR THE REMOVED SPECIMEN TREES.
  - 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:
    - WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE)
    - SURFACE - 6" OF CRUSHER RUN BASE WITH TAR AND CHIP COATING (1.5" MIN)
    - GEOMETRY - MAX 15% GRADE, MAX 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.
    - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOAD)
    - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
    - STRUCTURE CLEARANCES - MINIMUM 12 FEET
  - MAINTENANCE IS SUFFICIENT TO ENSURE ALL WEATHER USE.
  - PER SECTION 16.116 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AN ESSENTIAL DISTURBANCE REQUEST HAS BEEN APPROVED ON MARCH 17, 2023 FOR THE SWM OUTFALLS AND REMOVAL OF THE BAMBOO WITHIN THE STREAM BUFFER. APPROVAL IS SUBJECT TO THE FOLLOWING:
    - THE INSTALLATION OF THE SWM OUTFALLS AND REMOVAL OF THE BAMBOO SHALL ONLY DISTURB THOSE ENVIRONMENTAL AREAS AS STATED IN THE REQUEST AND AS DELINEATED ON THE OLD MONTGOMERY MEADOWS DEVELOPMENT, P-23-003. ANY DISTURBANCES TO REGULATED ENVIRONMENTAL FEATURES BEYOND THIS REQUEST ARE NOT PERMITTED UNLESS THE APPLICANT SUBMITS A FORMAL REQUEST TO THE DEPARTMENT OF PLANNING & ZONING IN ACCORDANCE WITH SECTION 16.116(C).
    - THE DISTURBED AREAS SHALL BE STABILIZED AND SEEDED OR PLANTED WITH NATIVE VEGETATION IN ACCORDANCE WITH THE DESIGN PLANS.
    - THE APPLICANT WILL BE REQUIRED TO OBTAIN ALL NECESSARY APPROVALS AND AUTHORIZATIONS BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) AND THE U.S. ARMY CORPS OF ENGINEERS (USACE) FOR ACTIVITIES IN REGULATED AREAS PRIOR TO BEGINNING CONSTRUCTION.

LOT	GROSS AREA(SF)	PIPESTEM AREA(SF)	MINIMUM LOT SIZE(SF)
6	8,281	1,083	7,201
7	9,900	1,935	7,965
9	8,590	1,390	7,200

SITE DATA TABULATION	
1) TOTAL PROJECT AREA.....	3.99 AC.±
2) AREA OF 100-YR. FLOODPLAIN.....	0.01 AC.±
3) AREA OF STEEP SLOPES (15% OR GREATER).....	0.00 AC.±
4) AREA OF EXISTING FOREST.....	0.57 AC.±
5) AREA OF ERODIBLE SOILS.....	3.81 AC.
6) AREA OF WETLANDS (INCLUDING BUFFER).....	N/A
7) AREA OF STREAM BUFFER.....	0.49 AC.±
8) NET AREA OF SITE.....	3.98 AC.±
9) MINIMUM RESIDENTIAL DENSITY.....	N/A
10) NUMBER OF LOTS PROPOSED.....	11
11) APPROXIMATE LIMIT OF DISTURBANCE.....	3.0 AC.±
12) PRESENT ZONING DESIGNATION.....	R-12
13) PROPOSED USES FOR THE SITE & STRUCTURES.....	RESIDENTIAL
14) MINIMUM LOT SIZE.....	7,200 SF
15) AREA OF TOTAL ROAD DEDICATION.....	0.40 AC.±
16) OPEN SPACE AREA REQUIRED.....	40% OR 1.60 AC.±
17) OPEN SPACE AREA PROVIDED.....	1.60 AC.±
18) RECREATIONAL OPEN SPACE REQUIRED.....	2,200 SF (200sf/LOT)
19) RECREATIONAL OPEN SPACE PROVIDED.....	3,985 SF±
20) NUMBER OF PARKING SPACES REQUIRED.....	28 SPACES (2.5/UNIT)
21) NUMBER OF PARKING SPACES PROVIDED.....	33 SPACES (EACH HOUSE HAS 2 IN GARAGE AND 1 IN THE DRIVEWAY)
22) TOTAL IMPERVIOUS AREA.....	0.82 AC.±



Stormwater Management Information					
Lot/Parcel Number	Facility Name & Number	Practice Type (Quantity)	Public/Private	Maintained By	Misc.
13	BR-1	BIORETENTION (F-6)	YES	HO, CO, AND HOA	
13	MBR-2	MICRO-BIOTENTION (M-6)	YES	HOA	

THE REMAINING STORMWATER MANAGEMENT FEATURES ARE ON THE LOTS AND ARE PROVIDED UNDER THE SITE DEVELOPMENT PLAN (SDP-23-051)

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE Whole Soil
GnB		B	D	GLENNELG URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	0.43
GnB*	YES	C	D	GLENNVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.49
Mac		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.32

APPROVED: DEPARTMENT OF PUBLIC WORKS

DocuSigned by: *[Signature]* 9/22/2023

CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by: *[Signature]* 9/20/2023

CHIEF, DIVISION OF LAND DEVELOPMENT

DocuSigned by: *[Signature]* 9/20/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION

STORMWATER MANAGEMENT PRACTICES																
LOT NUMBER	ADDRESS	GREEN ROOFS	PERMEABLE PAVEMENTS	REINFORCED TURF	DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON-ROOFTOP RUNOFF	SETBACK TO CONSERVATION AREAS	RAINWATER HARVESTING	SUMMERED GRAZED WETLANDS	LANDSCAPE INFILTRATION	INFILTRATION BERMS	DRYWELLS	MICRO-BIOTENTION	RAIN GARDENS	SWALES	ENHANCED FILTERS
1	9005 Old Montgomery Road	N	N	N	N	N	N	N	N	N	N	2	2			
2	9001 Old Montgomery Road	N	N	N	N	N	N	N	N	N	N	2	2			
3	6400 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
4	6404 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
5	6408 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
6	6412 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
7	6416 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
8	6413 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
9	6417 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2	1	1	
10	6409 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			
11	6405 Meadows Lane	N	N	N	N	N	N	N	N	N	N	2	2			

TRAFFIC CONTROL DEVICES:

- THE R-11 (STOP) SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLIES FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETE.
- THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
- ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD).
- ALL TRAFFIC CONTROL DEVICE SIGN POSTS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL PERFORATED SQUARE TUBE POST (1 1/2 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 HOLES ABOVE THE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- NO TREE SHALL BE INSTALLED WITHIN 20 FEET OF A PROPOSED STREET LIGHT LOCATION. ANY TREE SHALL BE INSTALLED WITHIN 30' OF A STOP SIGN APPROACH SIDE. PLEASE CONTACT HOWARD COUNTY TRAFFIC TO MARK STREET LIGHT LOCATIONS BEFORE INSTALLING ANY NEW TREES.

PROJECT BACKGROUND INFORMATION

PRESENT ZONING: R-12

LOCATION: TAX MAP 36 - GRID 17 - PARCEL 271

APPLICABLE DPZ FILE REFERENCES: ECP-22-052, WP-22-093, S-22-006, P-23-003,

DEED REFERENCES: L 21110 / F. 102

PROPOSED USE OF SITE: RESIDENTIAL SINGLE FAMILY DETACHED

PROPOSED WATER AND SEWER SYSTEMS: PUBLIC WATER & SEWER

MODERATE INCOME HOUSING UNITS (MIHU) ALLOCATION EXEMPTION TRACKING	
TOTAL NUMBER OF LOTS PROPOSED	11
NUMBER OF MIHU REQUIRED	2
NUMBER OF MIHU PROVIDED	0
ONSITE (EXEMPT FROM APFO ALLOCATION)	0
NUMBER OF APFO ALLOCATIONS REQUIRED (REMAINING UNITS)	11
MIHU FEE-IN-LIEU	YES

**BENCHMARK ENGINEERING, INC.**

ENGINEERS & LAND SURVEYORS & PLANNERS

3300 NORTH RIDGE ROAD SUITE 140 • ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BE-INC.COM

OWNER:

DEVELOPMENT PARTNERS, LLC  
9693 GERWIC LANE, SUITE L  
COLUMBIA, MD 21046  
443-676-2417

**OLD MONTGOMERY MEADOWS**  
LOTS 1-11 AND OPEN SPACE LOTS 12 & 13

9005 OLD MONTGOMERY ROAD

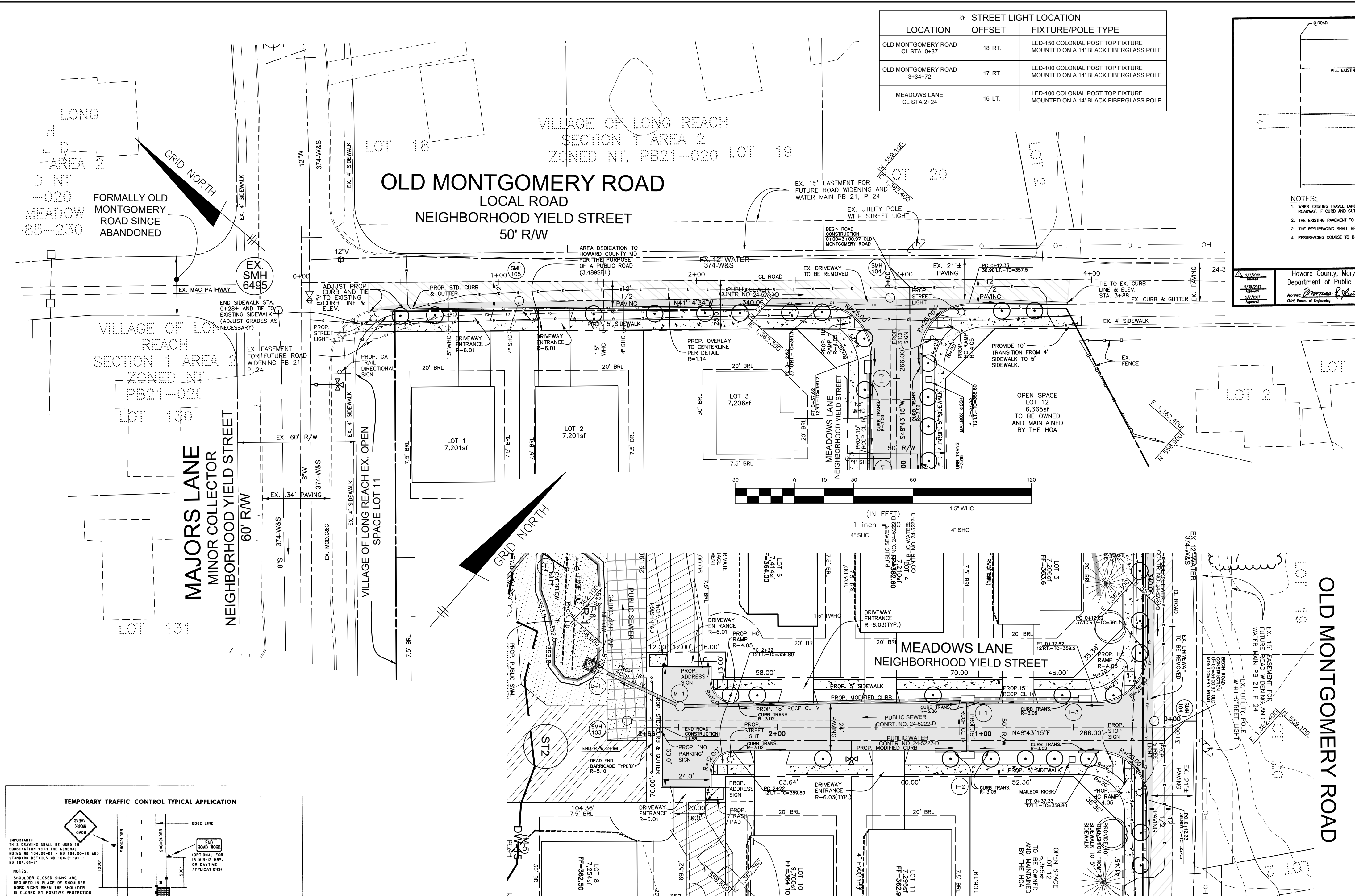
TAX MAP: 36 GRID: 17 PARCEL: 271  
ZONED: R-12  
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

RESIDENTIAL  
FINAL CONSTRUCTION PLANS  
COVER SHEET AND EXISTING CONDITIONS PLAN

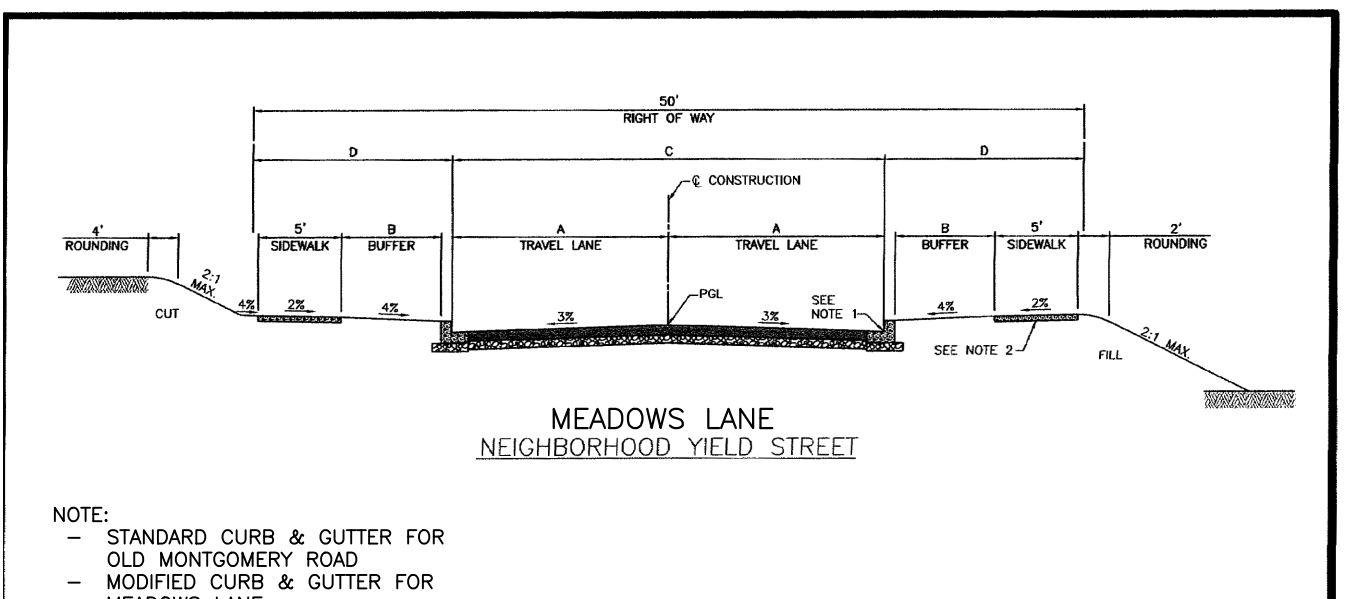
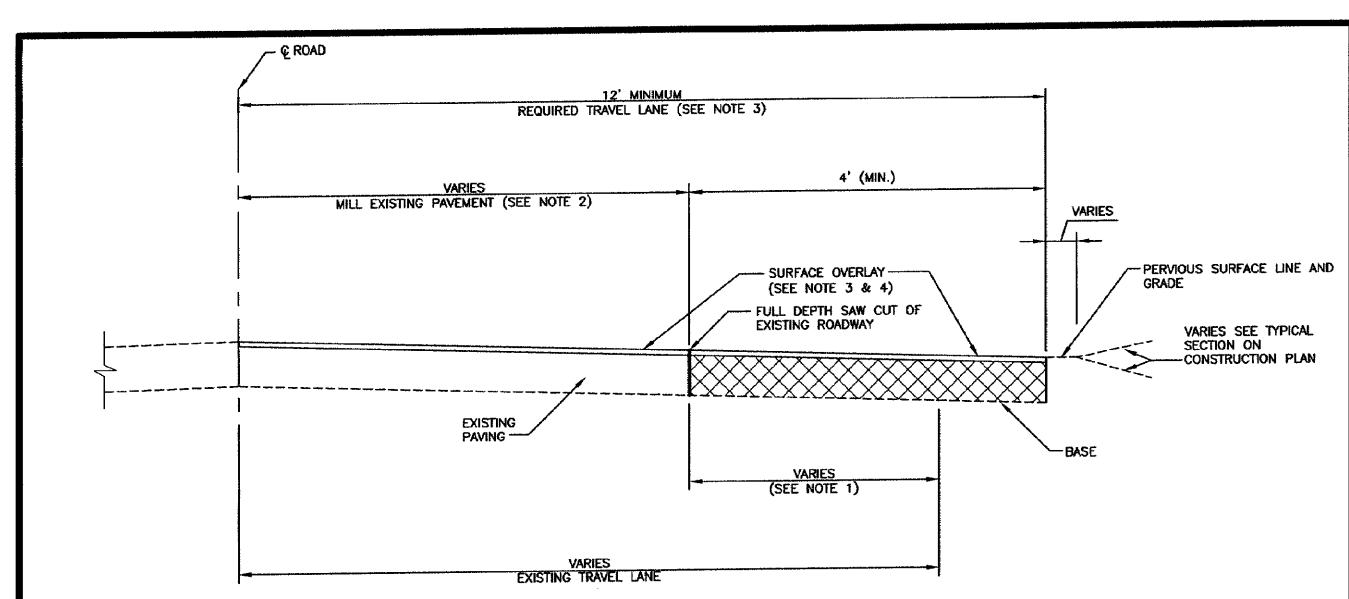
DATE: AUGUST 2023 BEI PROJECT NO. 3080

DESIGN: JCO DRAFT: JCO SCALE: AS SHOWN SHEET 1 OF 9





LOCATION	OFFSET	FIXTURE/POLE TYPE
OLD MONTGOMERY ROAD CL STA 0+37	18' RT.	LED-150 COLONIAL POST TOP FIXTURE MOUNTED ON A 14" BLACK FIBERGLASS POLE
OLD MONTGOMERY ROAD 3+34+72	17' RT.	LED-100 COLONIAL POST TOP FIXTURE MOUNTED ON A 14" BLACK FIBERGLASS POLE
MEADOWS LANE CL STA 2+24	16' LT.	LED-100 COLONIAL POST TOP FIXTURE MOUNTED ON A 14" BLACK FIBERGLASS POLE

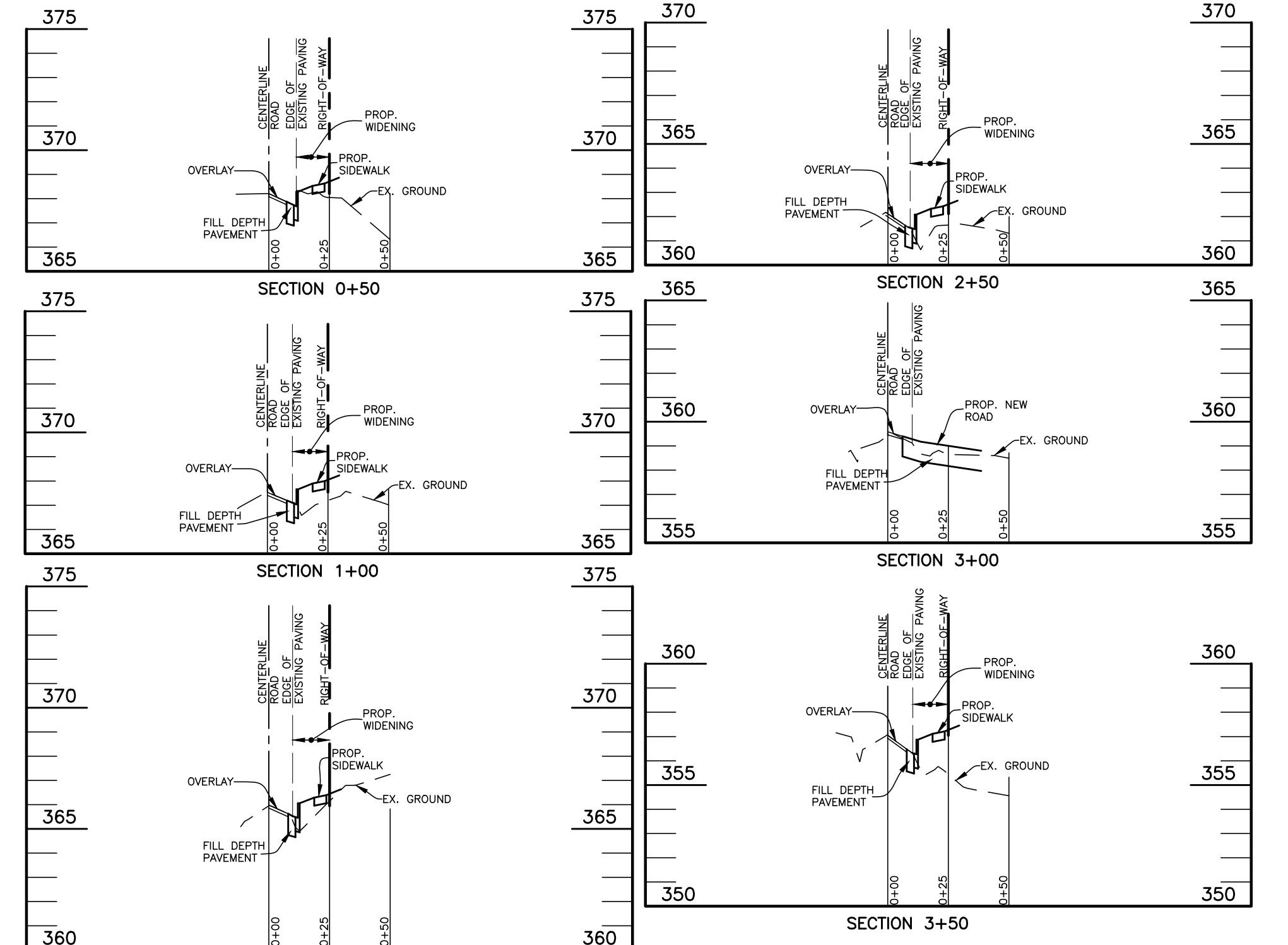


**NOTES:**  
 1. WHEN EXISTING TRAVEL LANE IS LESS THAN THE REQUIRED 12' LANE, CONTRACTOR SHALL PROVIDE A MINIMUM OF 1' FALL DEPTH OF THE EXISTING ROADWAY IF CURB AND GUTTER IS INSTALLED, PROVIDE A MINIMUM OF 4" OF WIDENING FROM FACE OF GUTTER PAV.  
 2. THE EXISTING PAVEMENT TO BE RECONSTRUCTED SHALL BE MAINTAINED AT DEPTH OF 1 1/2" (MINIMUM).  
 3. THE RECONSTRUCTION SHALL BE PLACED TO THE CENTERLINE OF THE ROADWAY.  
 4. RECONSTRUCTION COURSE TO BE EQUAL TO THE SURFACE COURSE OF THE TYPICAL PAVEMENT SECTION.

**NOTES:**  
 1. TYPE OF CURB VARIES (UNLESS OTHERWISE NOTED) CURB & GUTTER OR CONCRETE CURB & GUTTER - SEE CROSS SECTION VOLUME 10.  
 2. "CONCRETE" SIDEWALK.  
 3. TRAFFIC BARRIER W/ BEAM AS REQUIRED (SEE CROSS SECTION VOLUME 10).

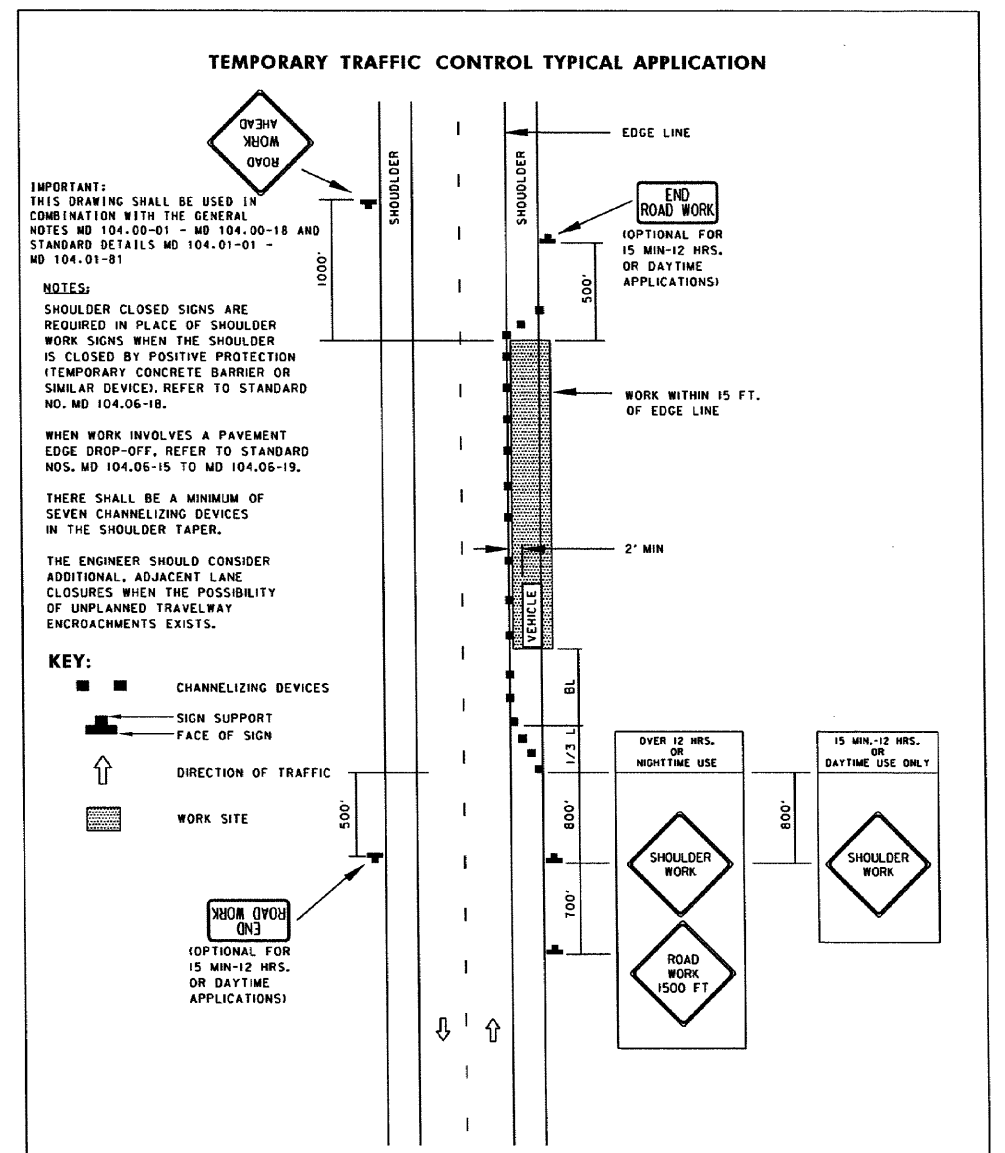
Howard County, Maryland Department of Public Works <i>Prerna E. Ghosh</i> Civil Engineer	Existing Roadway Widening Strip OLD MONTGOMERY ROAD	Detail R-1.14
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Howard County, Maryland Department of Public Works <i>Prerna E. Ghosh</i> Civil Engineer	TYPICAL SECTIONS Neighborhood Yield Street	Detail R-1.08
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SECTION	ROAD AND STREET CLASSIFICATION / TYPE	VEHICLE PROFILES ONLY	VEHICLE PROFILES ONLY (200)	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12
P-1	NEIGHBORHOOD YIELD STREET	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
P-2	NEIGHBORHOOD YIELD STREET	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
P-3	NEIGHBORHOOD YIELD STREET	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
P-4	NEIGHBORHOOD YIELD STREET	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	SHOULDER: 12" MIN. ASPHALT OR CONCRETE SURFACE: 12" MIN. ASPHALT OR CONCRETE CROWN: 1/2" PER FOOT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Howard County, Maryland Department of Public Works <i>Prerna E. Ghosh</i> Civil Engineer	PAVING SECTIONS P-1 TO P-4	Detail R-2.01
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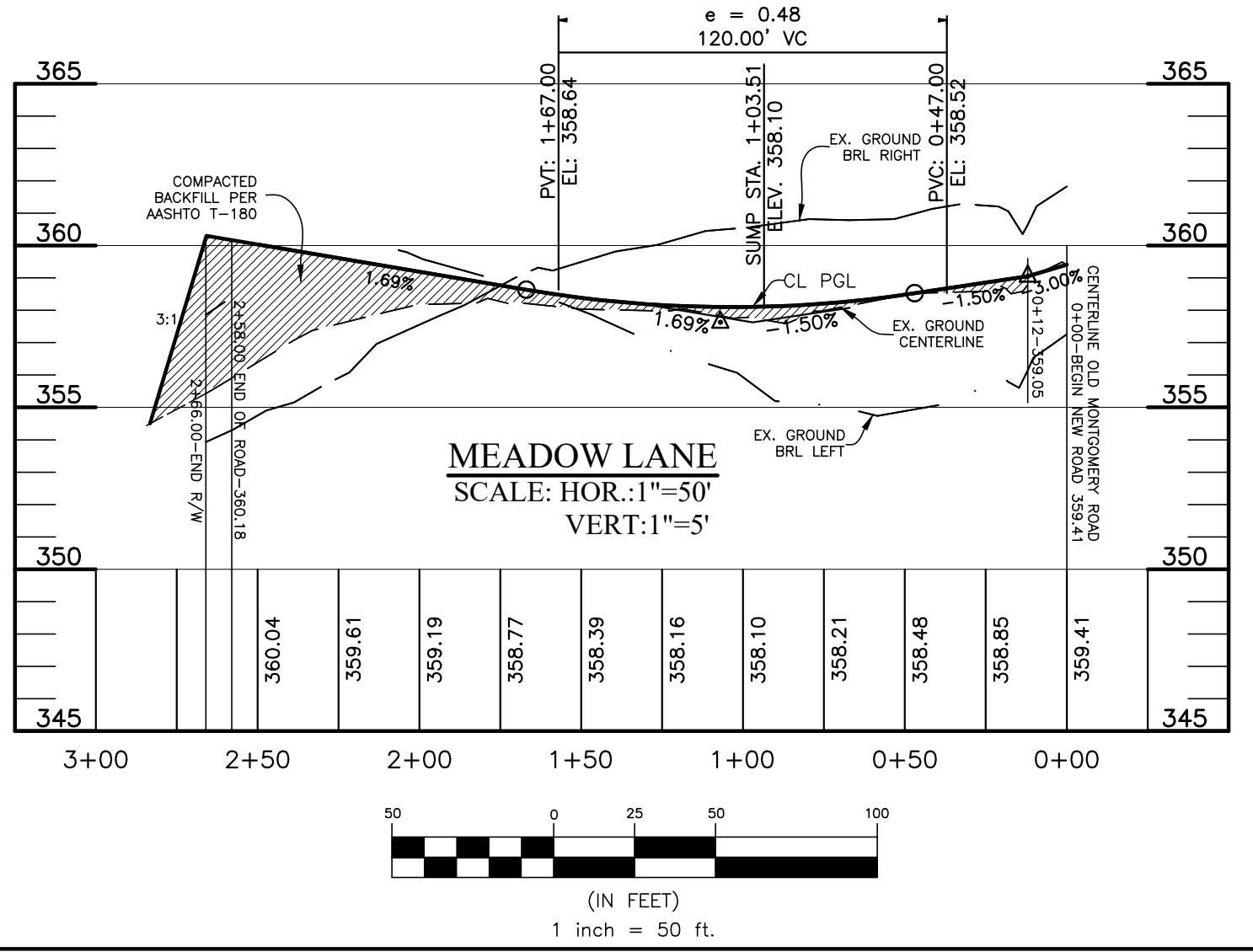
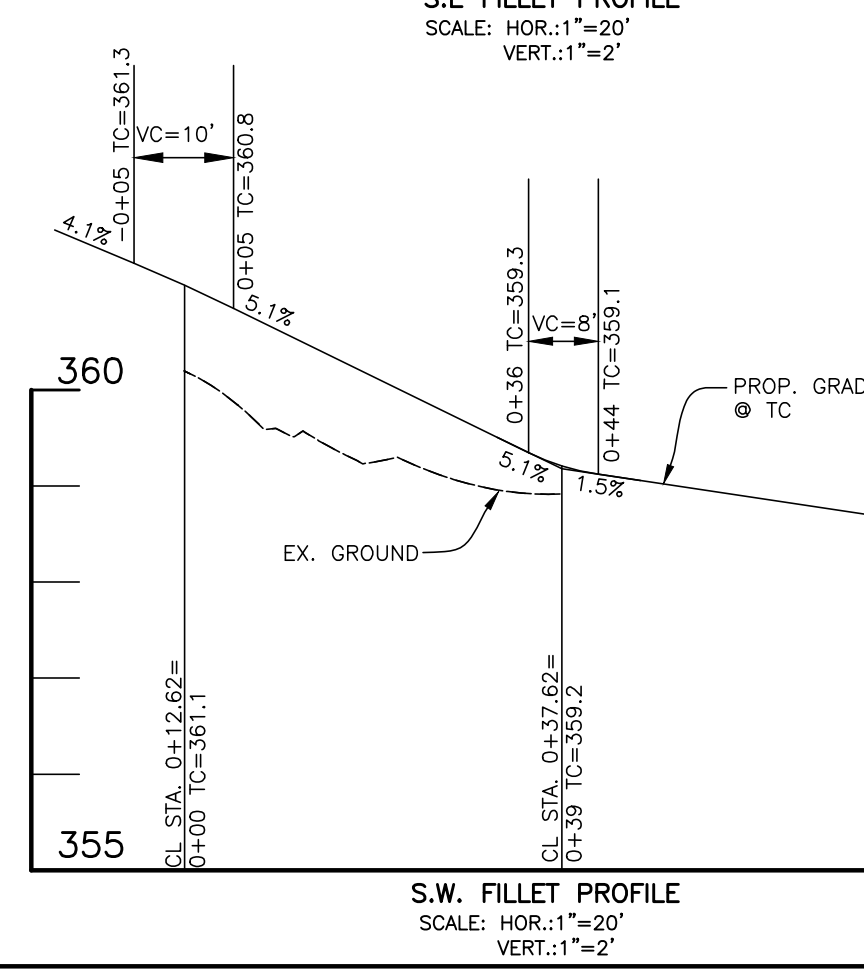
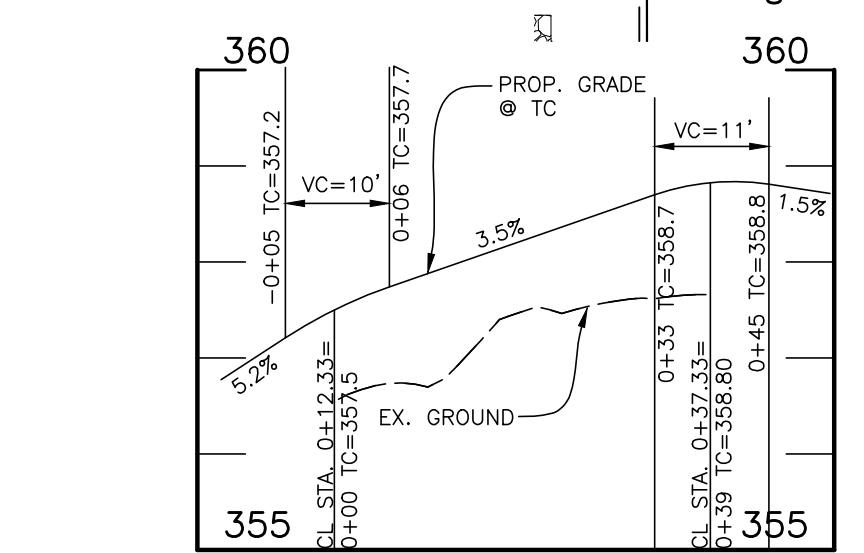
**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION**

IMPORTANT: THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS AND INCIDENTAL STRUCTURES, MARYLAND, 104-01-01 THROUGH 104-01-10 AND 104-01-11 THROUGH 104-01-15.

NOTES:  
 1. SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER WORK SIGNS WITH THE SHOULDER TO BE CLOSED BY EXISTING PROTECTION TEMPORARY CONCRETE BARRIERS OR SIMILAR DEVICES REFER TO STANDARD NO. 104-01-11.  
 2. WHEN WORK INVOLVES A PERMANENT EDGE DROP-OFF, REFER TO STANDARD NO. 104-01-11 FOR THE SHOULDER TAPER.  
 3. THERE SHALL BE A MINIMUM OF SEVEN CHANNELIZING DEVICES IN THE SHOULDER TAPER.  
 4. THE ENGINEER SHOULD CONSIDER ADDITIONAL CHANNELIZING DEVICES WHEN THE POSSIBILITY OF UNPLANNED TRAVELERS ENCROACHMENTS EXISTS.

**KEY:**  
 CHANNELIZING DEVICES  
 SIGN SUPPORT  
 FACE OF SIGN  
 DIRECTION OF TRAFFIC  
 WORK SITE  
 ROAD CLOSURE  
 OPTIONAL FOR 15 MINUTE OR SHORTER APPLICATIONS

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 9/22/2023  
 CHIEF, BUREAU OF HIGHWAYS  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 9/20/2023  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE  
 9/20/2023  
 CHIEF, DEVELOPMENT/ENGINEERING DIVISION  
 DATE



**LEGEND**

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED HOUSE
- APPROXIMATE 100 YEAR FLOODPLAIN
- SPECIMEN TREE (TO REMAIN)
- PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PUBLIC SEWER & UTILITY EASEMENT
- PUBLIC SWM, DRAINAGE & UTILITY EASEMENT
- FCE (RETENTION)
- FCE (REFORESTATION)
- EX. UNDERGROUND ELECTRIC
- EX. UNDERGROUND GAS
- EX. UNDERGROUND FIBER OPTIC/CABLE
- RECREATIONAL OPEN SPACE

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
 3300 NORTH RIDGE ROAD, SUITE 140 • ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6644  
 WWW.BEI-CIVILENGINEERING.COM

**OLD MONTGOMERY MEADOWS**  
 LOTS 1-11 AND OPEN SPACE LOTS 12 & 13  
 9005 OLD MONTGOMERY ROAD

OWNER: DEVELOPMENT PARTNERS, LLC  
 9693 GERWIG LANE, SUITE L  
 COLUMBIA, MD 21046  
 443-676-2417

DEVELOPER: DEVELOPMENT PARTNERS, LLC  
 9693 GERWIG LANE, SUITE L  
 COLUMBIA, MD 21046  
 443-676-2417

TAX MAP: 36 GRID: 17 PARCEL: 271  
 ZONED: R-12  
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

RESIDENTIAL  
**FINAL CONSTRUCTION PLANS**  
 ROAD CONSTRUCTION AND PROFILE

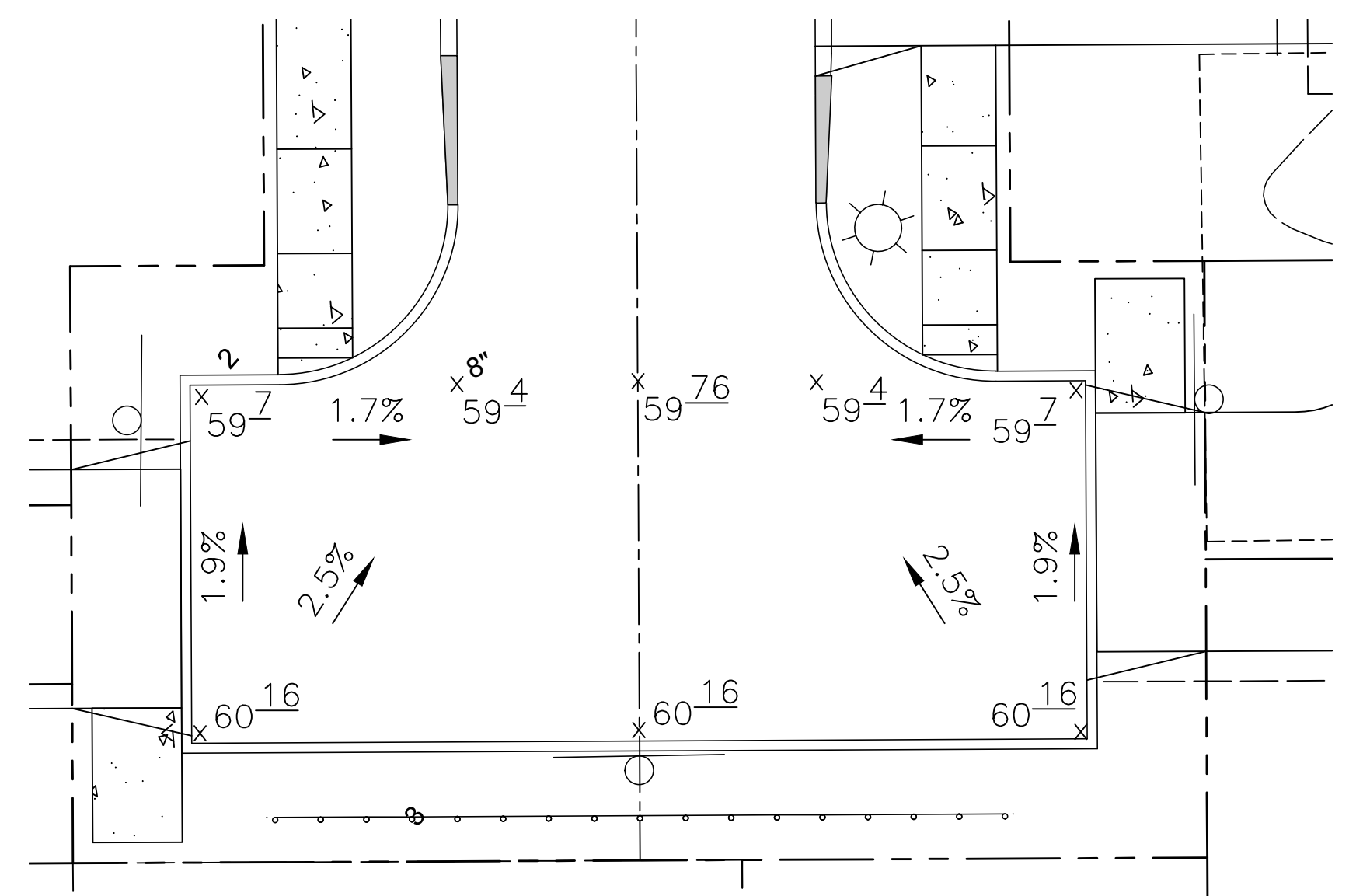
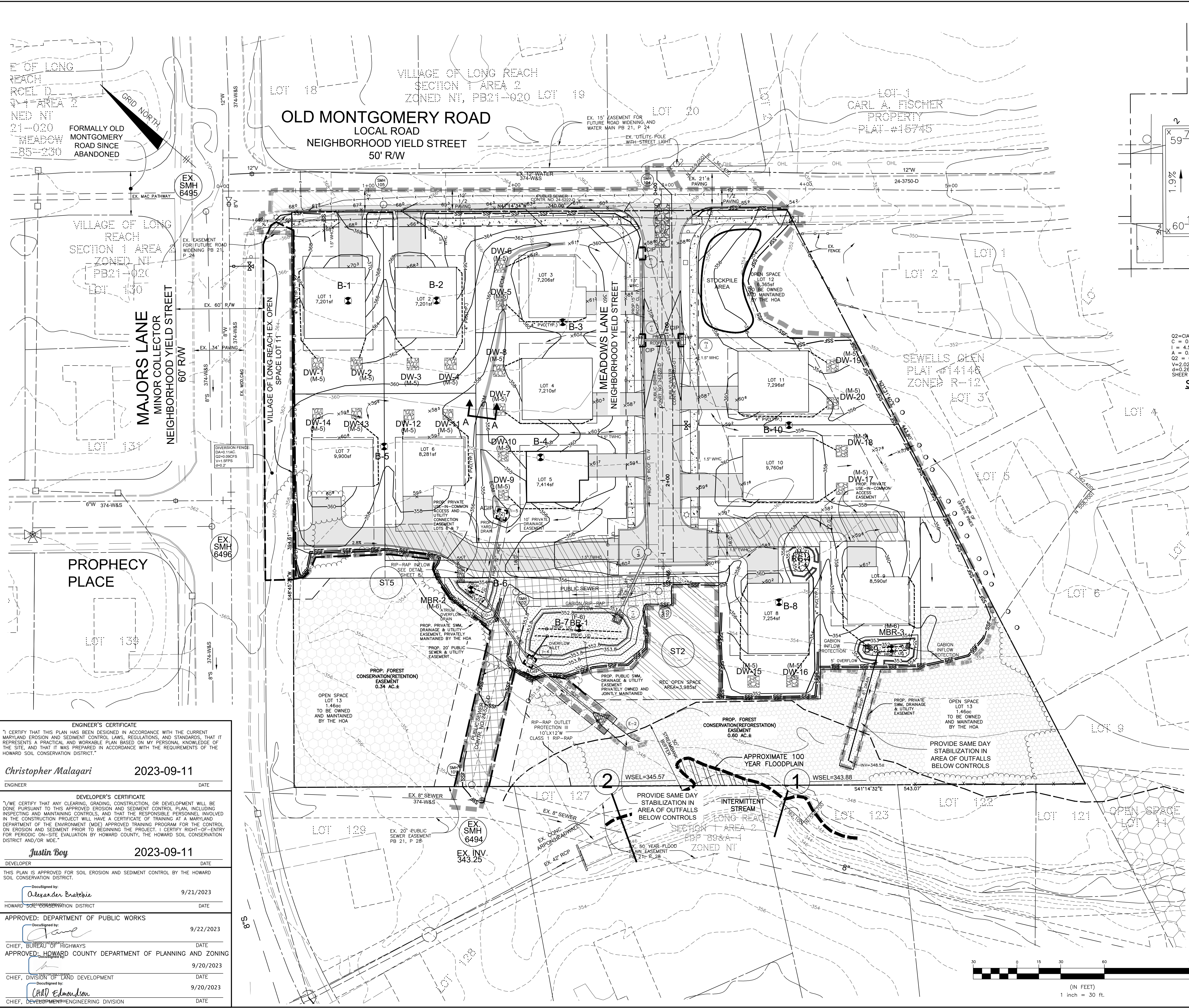
DATE: AUGUST 2023  
 BEI PROJECT NO. 3080

DESIGN: JCO  
 DRAFT: JCO  
 SCALE: AS SHOWN  
 SHEET 2 OF 9

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland, License No. 22390, dated 6-30-2025.

09.11.2023





TEE TURN-AROUND DETAIL  
SCALE: 1"=10'

Q2=CIA  
C = 0.175  
i = 4.5 in/hr  
A = 0.11cc  
Q2 = 0.09 cfs  
V=2.02 fps  
d=0.26'  
SHEER STRESS=0.48 lb/sf  
Q10 = 1.27 cfs  
V=2.16 fps  
d=0.29'  
SHEER STRESS=0.54 lb/sf  
**SWALE SECTION A-A**  
NOT TO SCALE

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED HOUSE
- APPROXIMATE 100 YEAR FLOODPLAIN
- LIMIT OF DISTURBANCE
- PROP. MICRO BIORETENTION FACILITY
- PROP. DRYWELL
- TREE PROTECTION
- FENCING
- SUPER SILT FENCE
- SILT FENCE DIVERSION
- STABILIZED CONSTRUCTION ENTRANCE
- SPECIMEN TREE (TO BE REMOVED)
- SPECIMEN TREE (TO REMAIN)
- PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PUBLIC SEWER & UTILITY EASEMENT
- PUBLIC SWM, DRAINAGE & UTILITY EASEMENT
- FCE (RETENTION)
- FCE (REFORESTATION)
- EX. UNDERGROUND ELECTRIC
- EX. UNDERGROUND GAS
- SOIL BORING LOCATIONS
- RECREATIONAL OPEN SPACE

ENGINEER'S CERTIFICATE  
I CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT 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 2023-09-11  
ENGINEER DATE

DEVELOPER'S CERTIFICATE  
I/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 PRIOR TO BEGINNING THE PROJECT, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

Justin Boy 2023-09-11  
DEVELOPER DATE

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

DocuSigned by: Alexander Bratovic 9/21/2023  
HOWARD SOIL CONSERVATION DISTRICT DATE

DocuSigned by: [Signature] 9/22/2023  
APPROVED: DEPARTMENT OF PUBLIC WORKS DATE

DocuSigned by: [Signature] 9/20/2023  
CHIEF, BUREAU OF HIGHWAYS DATE  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DATE

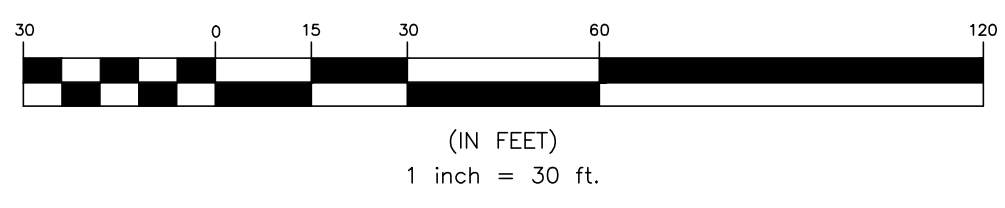
DocuSigned by: [Signature] 9/20/2023  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DocuSigned by: [Signature] 9/20/2023  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
3300 NORTH RIDGE ROAD SUITE 140 ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CIVILENGINEERING.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. 22390  
**Christopher Malagari**  
09.11.2023

<p>OWNER: DEVELOPMENT PARTNERS, LLC 9693 GERWIG LANE, SUITE L COLUMBIA, MD 21046 443-676-2417</p>	<p><b>OLD MONTGOMERY MEADOWS</b> LOTS 1-11 AND OPEN SPACE LOTS 12 &amp; 13 9005 OLD MONTGOMERY ROAD</p> <p>TAX MAP: 36 GRID: 17 PARCEL: 271 ZONED: R-12 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND</p> <p style="text-align: center;"><b>RESIDENTIAL FINAL CONSTRUCTION PLAN GRADING &amp; SEDIMENT CONTROL PLAN</b></p> <p>DATE: AUGUST 2023 BEI PROJECT NO. 3080 SCALE: AS SHOWN SHEET 3 OF 9</p>
<p>DEVELOPER: DEVELOPMENT PARTNERS, LLC 9693 GERWIG LANE, SUITE L COLUMBIA, MD 21046 443-676-2417</p>	<p>DESIGN: JCO DRAFT: JCO</p>









SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	k-VALUE
GhB		B	D	GLENELG URBAN LAND COMPLEX 0 TO 8 PERCENT SLOPES	0.43
GhB*	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.49
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.32

**SPECIMEN TREE IMPACT CALCULATION CHART**

Key (X#)	Species	Size (in. dbh)	CRZ (feet radius)	Comments	CRZ Area (SF)	CRZ Impact (SF)	Percent Impact	To Be Retained (Y/N)	Mitigation Requirement (# replacement 3" trees)	
1	Norway maple	35.5	53.25	poor condition, hollow trunk dieback NON-NATIVE	8904	8904	100	N	2	
2	Silver maple	33.5	50.25	Some tip dieback noted	7929	2190	28	N	2	
3	White pine	32	48	Major scaffold branches 15'+- dia. damaged from storm removing 20% of canopy. Remaining canopy vigorous	7235	7235	100	N	2	
4	White pine	32	48	Two scaffold branches storm damaged removing 20% of the canopy. Remaining canopy vigorous	7235	7235	100	N	2	
5	Pin oak	31	46.5		6789	1906	28	Y	0	
6	White pine	33	49.5	Good, some included bark	7604	7604	100	N	2	
7	Black cherry	34	51	Very poor, only one small branch surviving, major storm damage	8167	8167	100	N	2	
									Mitigation Requirement	12

**SPECIMEN TREE 2 NOTE -**

SPECIMEN TREE 2 HAS BEEN APPROVED FOR REMOVAL BUT MAY POSSIBLY BE RETAINED DURING THE DEVELOPMENT PROCESS. PROTECTIVE FENCING SHALL BE INSTALLED ALONG THE CRZ AND NO VEHICLES SHALL BE PERMITTED WITHIN THE CRZ DURING THE BAMBOO REMOVAL. HAND HELD, MECHANIZED CUTTING AND SPRAYING TOOLS MAY BE USED WITHIN CRZ BUT NO TRACTORS, MOWERS, SKID STEERS OR OTHER VEHICLES.

MITIGATION WILL BE PROVIDED FOR SPECIMEN TREE 2 EVEN IF THE TREE IS TO BE RETAINED.

A TOTAL OF 12 MITIGATION PLANTINGS HAVE BEEN REQUIRED AS A CONDITION OF THE SPECIMEN TREE REMOVAL ALTERNATIVE COMPLIANCE APPROVAL (WP-22-093).

DEVELOPER'S CERTIFICATION:  
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 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.

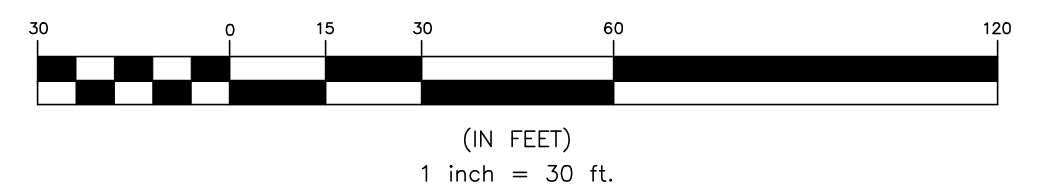
**Justin Boy** 2023-09-11  
DEVELOPER DATE

**LEGEND**

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED HOUSE
- APPROXIMATE 100 YEAR FLOODPLAIN
- LIMIT OF DISTURBANCE
- PROP. MICRO BIORETENTION FACILITY
- PROP. DRYWELL
- TREE PROTECTION FENCING
- SPECIMEN TREE (TO REMAIN)
- PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PUBLIC SEWER & UTILITY EASEMENT
- PUBLIC SWM, DRAINAGE & UTILITY EASEMENT
- FCE (RETENTION)
- FCE (REFORESTATION)
- EX. UNDERGROUND ELECTRIC
- EX. UNDERGROUND GAS
- SPECIMEN TREE TO BE REMOVED PER WP-22-093
- EXISTING TREE 24-29.9"
- SPECIMEN TREE MITIGATION
- BAMBOO REMOVAL AREA
- PERMANENT PROTECTIVE SIGNAGE
- 1" CALIPER TREE PLANTING LOCATION

**LANDSCAPING NOTES**

- PERIMETER LANDSCAPING SHALL BE PROVIDED BY THE PLANTINGS AS SHOWN ON THESE PLANS.
- TREES MUST BE A MINIMUM OF FOUR(4) FEET FROM PAVEMENT AND MUST BE A MINIMUM OF TEN(10) FEET FROM A DRIVEWAY APRON.
- TREE MUST BE PLANTED A MINIMUM OF TEN (10) FEET FROM A DRIVEWAY APRON.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SEC.16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- THE LANDSCAPING FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SURETY SHALL BE PROVIDED WITHIN THE DEVELOPER'S AGREEMENT, IN THE AMOUNT OF \$11,250.00 FOR 24 PERIMETER SHADE TREES, 3 PERIMETER EVERGREEN TREES AND 12 MITIGATED TREES FOR THE REMOVED SPECIMEN TREES.
- TWO SPECIMEN TREES HAVE BEEN IDENTIFIED TO REMAIN ON THIS PLAN. THESE TREES ARE TO BE PRESERVED AND IF ANY CONSTRUCTION IS EXPECTED TO IMPACT THE CRITICAL ROOT ZONE OF ANY SPECIMEN TREES, ROOT PRUNING ALONG THE PROPOSED LIMITS OF DISTURBANCE SHALL BE PROVIDED TO REDUCE IMPACTS.
- THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING PLANT MATERIALS, BERRIS, 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 HERETHIN IN 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 OR 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 REVIEWERS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES."
- ALL LANDSCAPING PLANT TYPES SHOWN ON THESE PLANS ARE RECOMMENDED AND MAY BE SUBSTITUTED WITH APPROVED EQUIVALENTS FROM THE HOWARD COUNTY LANDSCAPE MANUAL.



FIVE SPECIMEN TREE MITIGATION PLANTINGS SHALL BE UTILIZED IN THE FOREST RETENTION AREA TO "FILL IN" CANOPY GAPS WITHIN THE EXISTING FOREST. THE APPROXIMATE LOCATION ARE SHOWN HEREON. PLANTING LOCATIONS SHOULD BE FIELD CONFIRMED BY QUALIFIED FCA PROFESSIONAL OR COUNTY PRIOR TO PLANTING. CARE SHOULD BE TAKEN TO MINIMIZE DISTURBANCE TO EXISTING FOREST VEGETATION DURING INSTALLATION

**SCHEDULE A PERIMETER LANDSCAPE EDGE**

LANDSCAPE TYPE	NA	B	B	A	A	A	TOTAL
PERIMETER	1	2	3	4	5	6	
LINEAR FEET OF PERIMETER	126 LF	78 LF	36 LF	444 LF	543 LF	395 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	95 LF	128 LF	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO	
NUMBER OF PLANTS REQUIRED							
SHADE TREES	NA	2	1	8	8	5	24
EVERGREEN TREES	-	-	-	-	-	-	3
OTHER TREES (2:1 SUBSTITUTE)	-	-	-	-	-	-	-
SHRUBS	-	-	-	-	-	-	-
NUMBER OF PLANTS PROVIDED							
SHADE TREES	NA	2	1	8	8	5	24
EVERGREEN TREES	-	-	-	-	-	-	3
OTHER TREES (2:1 SUBSTITUTE)	-	-	-	-	-	-	-
SHRUBS (10:1 SUBSTITUTE)	-	-	-	-	-	-	-
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)							
CREDIT IS FOR EXISTING FOREST IN EASEMENT.							

**STREET TREE REQUIREMENTS**

ROADWAY NAME:	OLD MONTGOMERY ROAD	PROPOSED ROAD A
LINEAR FEET OF ROADWAY RIGHT-OF-WAY	340	482
STREET TREES REQUIRED 1:40	9	12
NUMBER OF PLANTS PROVIDED:		
SHADE TREES	9	12
EVERGREEN TREES	-	-
OTHER TREES (2:1 SUBSTITUTE)	-	-
SHRUBS (10:1 SUBSTITUTE)	-	-
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)		

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 9/22/2023  
 CHIEF, BUREAU OF HIGHWAYS  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 9/20/2023  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 9/20/2023  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**PERIMETER LANDSCAPE PLANTING LIST**

SYMBOL	QUANTITY	NAME	REMARKS
○	24	ACER SACCHARUM MOUNTAIN SUGAR MAPLE	2 1/2"-3" CAL
●	3	PINUS STROBUS WHITE PINE	6" - 8" HT

**STREET TREE PLANTING SCHEDULE**

SYMBOL	QUANTITY	NAME	REMARKS
○	REQUIRED: 1/40LF REQUIRED: 21	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2 1/2"-3" CAL



REFORESTATION PLAN

A. Planting Plan and Methods

Plant species selection was based on our knowledge regarding plant communities in Maryland's Piedmont Plateau and information provided in the soil survey on typical vegetation for the soil type on the planting site.

Reforestation will be accomplished through a mixed planting of whips and branched transplants. Container grown stock is recommended but bareroot stock may be used to help control afforestation costs.

Prior to planting the proposed Forest Conservation Easements all multiflora rose and bamboo the planting area shall be removed. Removal of the rose may be performed with mowing and herbicide treatments.

B. Planting and Soil Specifications

Plant material will be installed in accordance with the Planting Detail and Planting Specifications shown on the Forest Conservation Plan.

Amendments to existing soil will be in accordance with the Planting Specifications shown on the Forest Conservation Plan.

C. Maintenance of Plantings

For information regarding maintenance of the reforestation plantings, see Post Construction Management Plans.

D. Guarantee Requirements

A 90 percent survival rate of the reforestation plantings will be required after one growing season. All plant material below the 90 percent survival threshold will be replaced at the beginning of the second growing season.

E. Security for Reforestation

Section 16-1209 of the Howard County Forest Conservation Act requires that a developer shall post a security (bond, letter of credit, etc.) with the County to insure that all work is done in accordance with the FCP.

CONSTRUCTION PERIOD PROTECTION PROGRAM

A. Forest Protection Techniques

1. Soil Protection Area (Critical Root Zone)

The soil protection area, or critical root zone, of a tree is that portion of the soil column where most of its roots may be found. The majority of roots responsible for water and nutrient uptake are located just below the soil surface.

2. Fencing and Signage

Existing forest limits occurring within 25 feet of the limits of disturbance shall be protected using temporary protective fencing. Permanent signage shall be placed around the afforestation area prior to plant installation.

B. Pre-Construction Meeting

Upon staking of limits of disturbance a pre-construction meeting will be held between the developer, contractor and appropriate County inspector.

C. Storage Facilities/Equipment Cleaning

All equipment storage, parking, sanitary facilities, material stockpiling, etc. associated with construction of the project will be restricted to those areas outside of the proposed Forest Conservation Easement.

D. Sequence of Construction

The following timetable represents the proposed timetable for development. The items outlined in the Forest Conservation Plan will be enacted within two (2) years of subdivision approval.

Below find a proposed sequence of construction.

- 1. Install all signage and sediment control devices.
2. Hold pre-construction meeting between developer, contractor and County inspector.
3. Build access roads, install well and septic systems, and construct houses.
4. Begin multiflora rose/bamboo removal.
5. Remove sediment control.
6. Hold post-construction meeting with County inspectors to assure compliance with FCP.
7. Monitor and maintain plantings for 2 years.

E. Construction Monitoring

Eco-Science Professionals, or another qualified professional designated by the developer, will monitor construction of the project to ensure that all activities are in compliance with the Forest Conservation Plan.

F. Post-Construction Meeting

Upon completion of construction, Eco-Science Professionals, or another qualified professional designated by the developer, will notify the County that construction has been completed and arrange for a post-construction meeting to review the project site.

The following items will be incorporated into the plan:
A. Fencing and Signage
B. General Site Inspections/Maintenance of Plantings
C. Education
D. Final Inspection

Site inspections will be performed a minimum of three times during the growing season. The purpose of the inspections will be to assess the health of the afforestation plantings. Appropriate measures will be taken to rectify any problems which may arise.

- 1. Watering - All plant material shall be watered twice a month during the 1st growing season, more or less frequently depending on weather conditions.
2. Removal of invasive exotics and noxious weeds.
3. Identification of serious plant pests and diseases, treatment with appropriate agent.
4. Pruning of dead branches.
5. After inspections, replacement of plants, if required, in accordance with the Guarantee Requirements shown on the FCP.

The developer will provide appropriate materials to property owners informing them of the location and purpose of the afforestation area. Materials may include site plans and information explaining the intent of the forest conservation law.

At the end of the year post-construction management period, Eco-Science Professionals, or another qualified professional, will submit to the administrator of the Howard County Forest Conservation Program certification that all retention/afforestation requirements have been met.

APPROVED: DEPARTMENT OF PUBLIC WORKS
TENTATIVELY APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, BUREAU OF HIGHWAYS
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Date: 9/22/2023

PLANTING SCHEDULE

FCE Reforestation Area - 0.5 acres
Planting Units Required: 350
Planting Units Provided: 350

Table with columns: Qty, Species, Size, Spacing, Total FCA Units. Lists species like Acer rubrum, Cercis canadensis, Liriodendron tulipifera, etc.

\*\* Trees shall be randomly planting in two rows along the lot lines in locations indicated by
\*\*\* Tree shall be randomly intersperse

NOTE: Planting schedule to specify a minimum of 5 species is required per section 3.9.2 of the Forest Conservation Manual.

Specimen Tree Mitigation Plantings

Table with columns: Qty, Species, Size, Spacing as shown. Lists species like Acer rubrum, Liriodendron tulipifera, Liquidambar styraciflua, etc.

A MINIMUM OF THREE SPECIES SHOULD BE USED FOR SPECIMEN TREE MITIGATION PLANTINGS

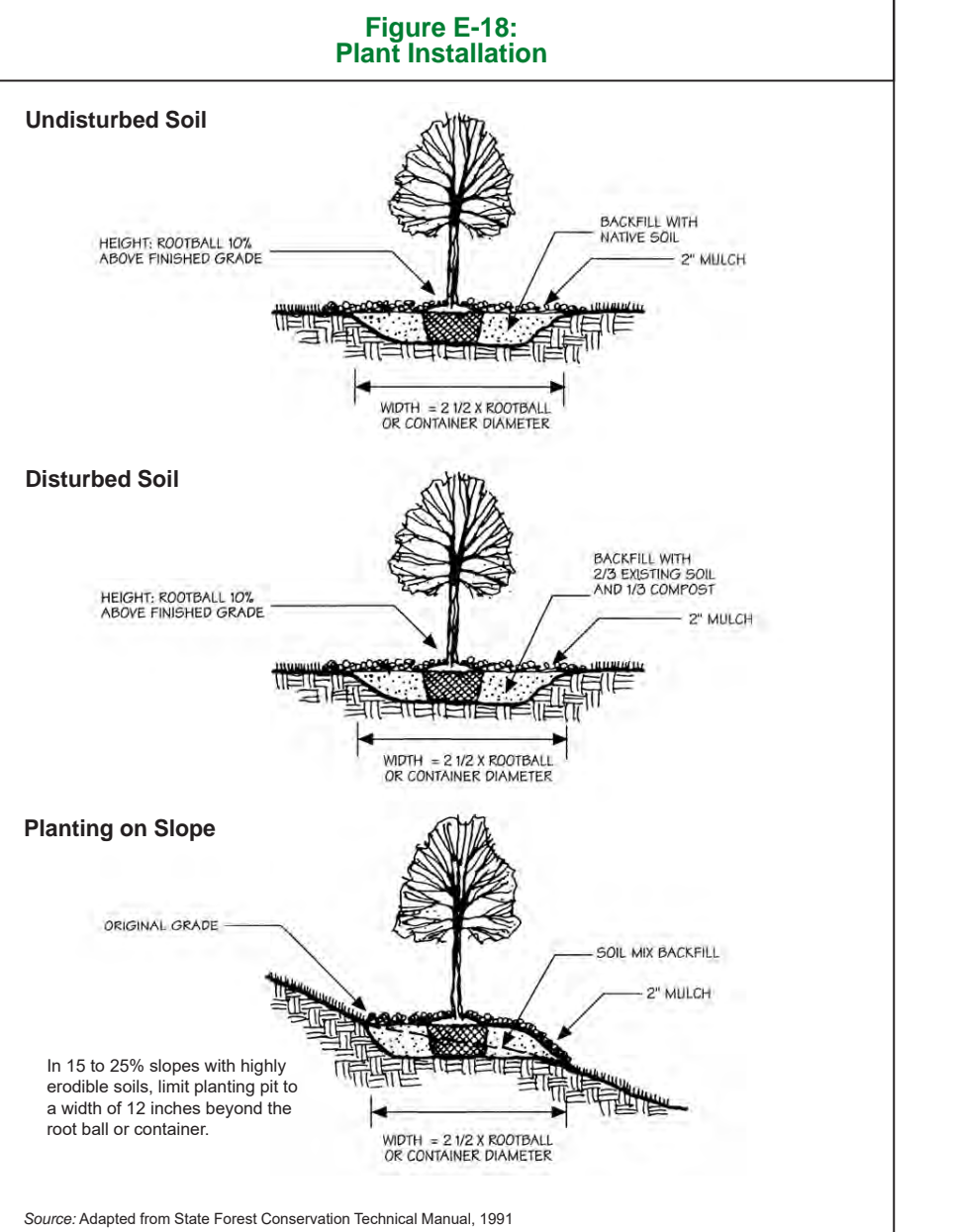
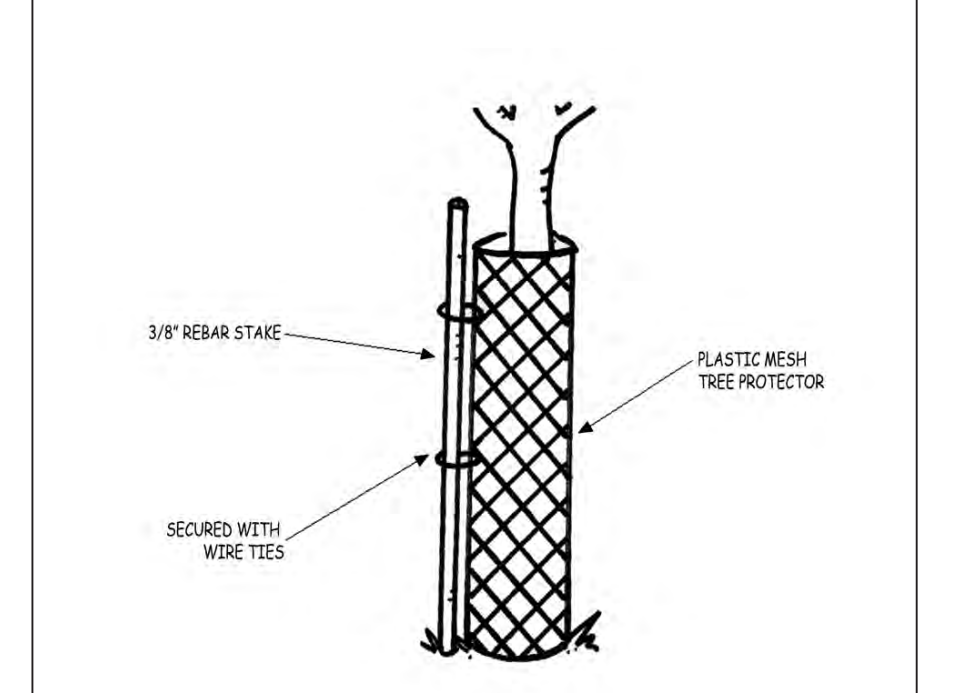


Figure E-23: Plastic Mesh Tree Shelters



- Notes:
1. Plastic mesh tree shelter is flexible, easy to install, reusable and UV treated.
2. Shelter is 4" diameter by 48" high.
3. Mesh is 3/4" by 3/4" with each strand about 1/8" by 1/8" by 1/8".
4. Secure shelter to ground with rebar 3/8" diameter by 5' long.
5. Secure shelter to rebar with 2 to 3 wire ties.
6. Mesh tree shelters may also be constructed of wire mesh or fencing with dimensions and installation methods as described above.
7. Remove tree shelters per the recommendation by the Department of Recreation and Parks.

FCP NOTES

- 1. THE FOREST CONSERVATION OBLIGATIONS FOR THIS SITE WILL BE ADDRESSED THROUGH THE CREATION OF CONSERVATION EASEMENTS FOR 0.3 ACRES OF ONSITE FOREST TO BE RETAINED AND 0.6 ACRES OF PLANTING.
2. BAMBOO REMOVAL SHALL OCCUR AS PART OF THE INITIAL SITE DEVELOPMENT OF THE SITE. THIS SHALL INCLUDE THE REMOVAL OF ALL ABOVE GROUND CANES.
3. THE PROJECT SITE IS LOCATED IN THE USE IV-P WATERSHED OF THE MIDDLE PATUXENT RIVER (021311050953).
4. AN ALTERNATIVE COMPLIANCE REQUEST FOR REMOVAL OF SPECIMEN TREES HAS BEEN APPROVED (WP-22-093). CONDITIONS OF THIS APPROVAL ARE INDICATED BELOW:

- Directors Action: Approval of alternative compliance of Section 16.1205(a) is subject to the following conditions:
1. Removal of the six specimen trees is to be mitigated at 2:1 by the planting of 12 native trees with a DBH of 3".
2. Approval is for removal of specimen trees 1-4 and 6 and 7 as shown on the exhibit provided with the alternative compliance application.
3. Include a general note with the alternative plan file number, summary of request, decision, date of decision and conditions of approval on all plans submitted to the County for review.
4. S-22-006 and subsequent plan submittals shall minimize LOD encroachment into the CRZ of Specimen tree 5 to less than 30% and ST-5 shall be protected within the forest conservation easement as shown on the revised alternative compliance application exhibit dated September 2022.
5. Approval of WP-22-093 is for removal of cited specimen trees only.
6. Subsequent plan submissions should explore methods of removing the bamboo that may preserve ST-2.
7. A SECURITY FOR THE PROPOSED SPECIMEN TREE MITIGATION PLANTINGS SHALL BE PROVIDED. THE COST OF THIS SECURITY HAS BEEN CALCULATED TO BE \$300.00 PER TREE - \$3,600.00.

UNIVERSITY OF MD EXTENSION SERVICE GUIDANCE FOR BAMBOO REMOVAL

Overview: Non-chemical control involves physically removing as much growth as possible. The easiest are the culms (canes, stems) that sprout above-ground. The most difficult are the underground rhizomes, which allow the plant to spread for a hundred or more feet in any unobstructed direction.

Cutting Culms: Flocks of some bird species will roost in bamboo. For respiratory safety, wear a mask and gloves when cutting and removing culms where large numbers of birds are roosting.

REMOVING RHIZOMES

Removing the rhizomes is another way to eradicate bamboo without resorting to herbicides. Hand removal is extremely difficult and requires sturdy tools and lots of effort. Some landscaping companies use power equipment, like mini-excavators, to lift rhizomes out of the soil after the culms are cut and removed.

CHEMICAL CONTROL

Herbicides should be the method of last resort and require non-selective, systemic products that are absorbed by plant tissues and transported down into the roots. (Glyphosate is one example of a systemic active ingredient.) Be careful with applications, as non-selective herbicides will damage desirable plants if spray drifts or drips onto them.

HERBICIDE APPLICATION

- 1. Don't attempt to spray a mature stand of running bamboo without first cutting-down as much growth as you can.
2. Small, leafy shoots (under 5 ft. tall) can be sprayed anytime during the growing season.
3. Cut culms and spray or paint a non-selective herbicide on the pruning cut within 5 minutes of cutting.

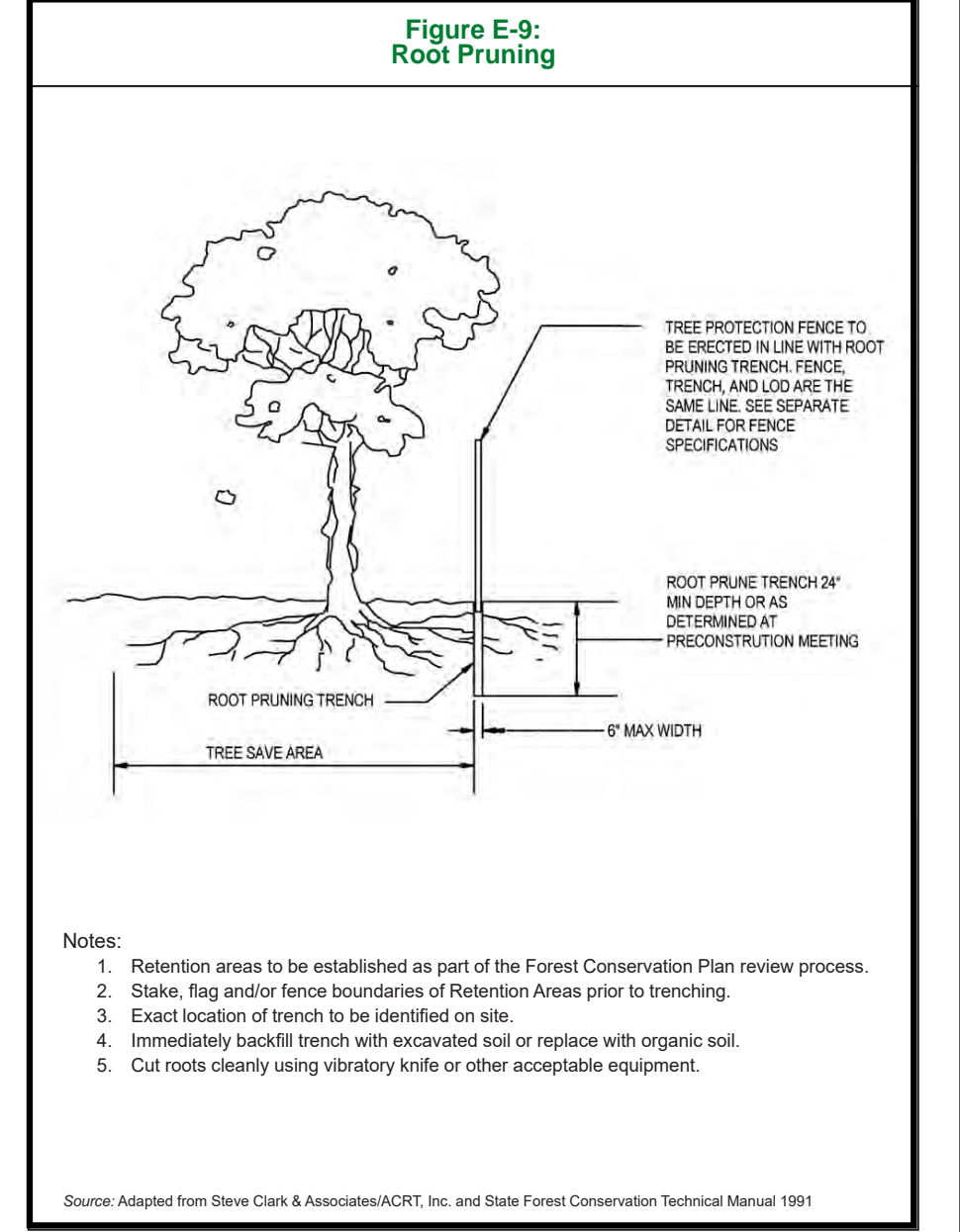
DISPOSAL

Cut culms can be dried and used for stakes. All other waste generated from the removal process shall be disposed of offsite in an appropriate disposal facility.

Specimen/Significant Tree Chart

Table with columns: Key (X#), Species, Size (in.dbh), CRZ 1.15 (feet radius), Condition (good unless otherwise noted), Diameter of State Champion for Species (inches). Lists trees like Norway maple, Silver maple, White pine, Pin oak, etc.

Table with columns: Net Tract Area, Afforestation Threshold, Existing Forest Cover, Proposed Forest Clearing, Planting Requirements Inside Watershed, Planting Requirements Outside Watershed. Includes calculations for various metrics.



- Notes:
1. Retention areas to be established as part of the Forest Conservation Plan review process.
2. Stake, flag and/or fence boundaries of Retention Areas prior to trenching.
3. Exact location of trench to be identified on site.
4. Immediately backfill trench with excavated soil or replace with organic soil.
5. Cut roots cleanly using vibratory knife or other acceptable equipment.

Figure E-2: Forest Conservation Easement Signs (continued)

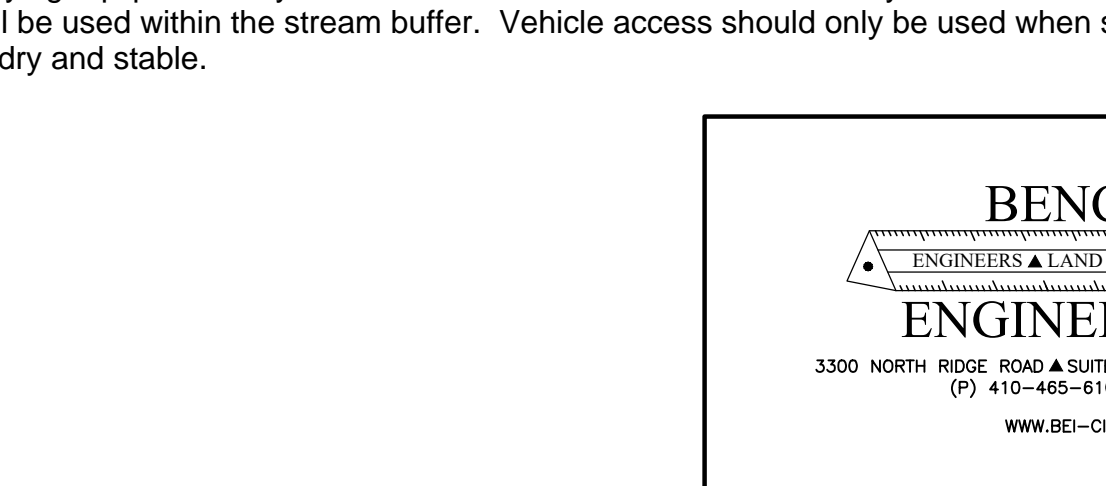


- Notes:
1. Signs to be a minimum of 11" wide by 17" high.
2. Place signs on metal or wood posts 5' above finished grade.
3. Place forest conservation area signs at 50' to 100' on center and at change of direction around the perimeter of the forest conservation easement.
4. Do not attach signs to trees.

BAMBOO REMOVAL IMPLEMENTATION SCHEDULE/SEQUENCE

- Year 1 and 2
Early Spring - March/April - cut down all bamboo canes to 6 inch height or less.
Late Spring - May/June - cut back any regrowth, remove all vegetative waste and dispose of in landfill.
Mid-summer - August - cut back any growth, remove all vegetative waste and dispose of in landfill.
Early fall - Following the August cutting of the culms allow plants to reach 12" and treat all top growth with appropriate herbicide.
Repeat process through year 2 as needed.
Year 2/3 - Once bamboo has been sufficiently controlled the area may be planted.

Figure E-3: Plastic Mesh Tree Protection Fence

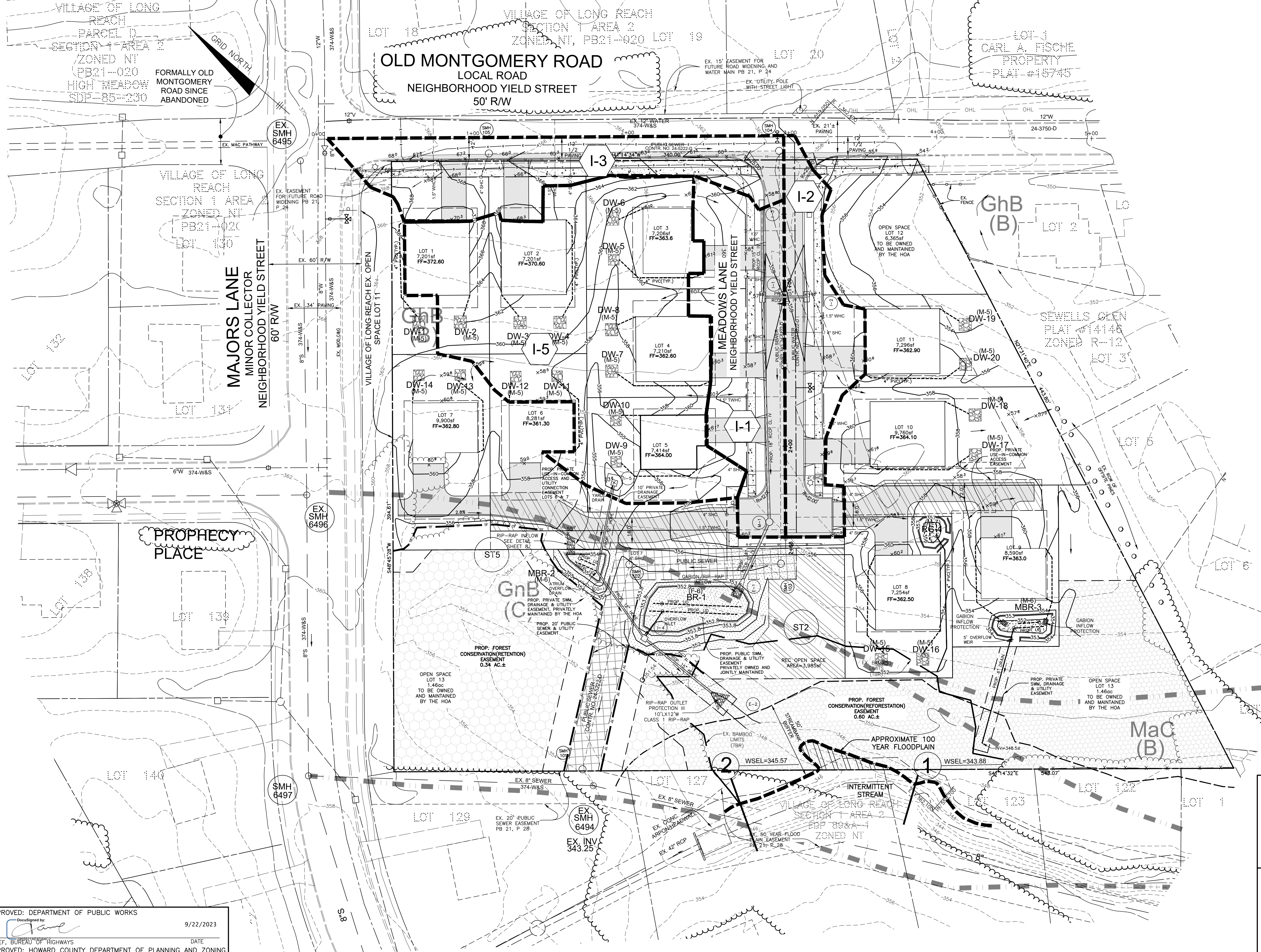


FCP PLAN PREPARED BY: J. Brody McAllister, ISA Certified Arborist, MD DNR FCA Qualified Professional. Eco-Science Professionals, Inc. CONSULTING ECOLOGISTS.

BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 3300 NORTH RIDGE ROAD SUITE 140 ELLICOTT CITY, MARYLAND 21043. OWNER: DEVELOPMENT PARTNERS, LLC. DEVELOPER: DEVELOPMENT PARTNERS, LLC. DATE: APRIL 2023. SCALE: AS SHOWN. SHEET: 6 OF 9.



SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	k-VALUE
GhB		B	D	GLENELG URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	0.43
GhB*	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.49
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.32



**LEGEND**

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED HOUSE
- APPROXIMATE 100 YEAR FLOODPLAIN
- PROP. MICRO BIORETENTION FACILITY
- PROP. DRYWELL
- TREE PROTECTION FENCING
- STORM DRAIN DRAINAGE AREA
- SOIL DIVIDES

**DA DATA**

AREA = 0.30 AC	I-1	ZONE = R-12
"C" FACTOR = 0.56	I-2	IMPERVIOUS = 57%
AREA = 0.18 AC	I-2	ZONE = R-12
"C" FACTOR = 0.66	I-3	IMPERVIOUS = 70%
AREA = 0.22 AC	I-3	ZONE = R-12
"C" FACTOR = 0.69	I-5	IMPERVIOUS = 74%
AREA = 0.66 AC	I-5	ZONE = R-12
"C" FACTOR = 0.29		IMPERVIOUS = 38%

APPROVED: DEPARTMENT OF PUBLIC WORKS

9/22/2023

CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

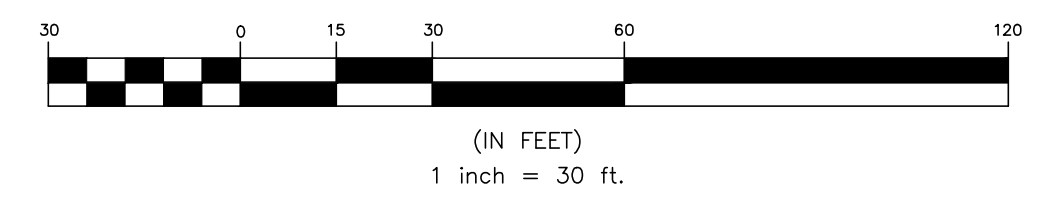
9/20/2023

CHIEF, DIVISION OF LAND DEVELOPMENT

9/20/2023

CHIEF, DEPARTMENT OF ENGINEERING DIVISION

DATE



**BENCHMARK ENGINEERING, INC.**

ENGINEERS & LAND SURVEYORS & PLANNERS

3300 NORTH RIDGE ROAD & SUITE 140 • ELLICOTT CITY, MARYLAND 21043

(P) 410-465-6105 (F) 410-465-6644

WWW.BEI-CIVILENGINEERING.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. 22390, expires 6-30-2025.

09.11.2023

OWNER: DEVELOPMENT PARTNERS, LLC  
9693 GERWIG LANE, SUITE L  
COLUMBIA, MD 21046  
443-676-2417

DEVELOPER: DEVELOPMENT PARTNERS, LLC  
9693 GERWIG LANE, SUITE L  
COLUMBIA, MD 21046  
443-676-2417

**OLD MONTGOMERY MEADOWS**  
LOTS 1-11 AND OPEN SPACE LOTS 12 & 13  
9005 OLD MONTGOMERY ROAD

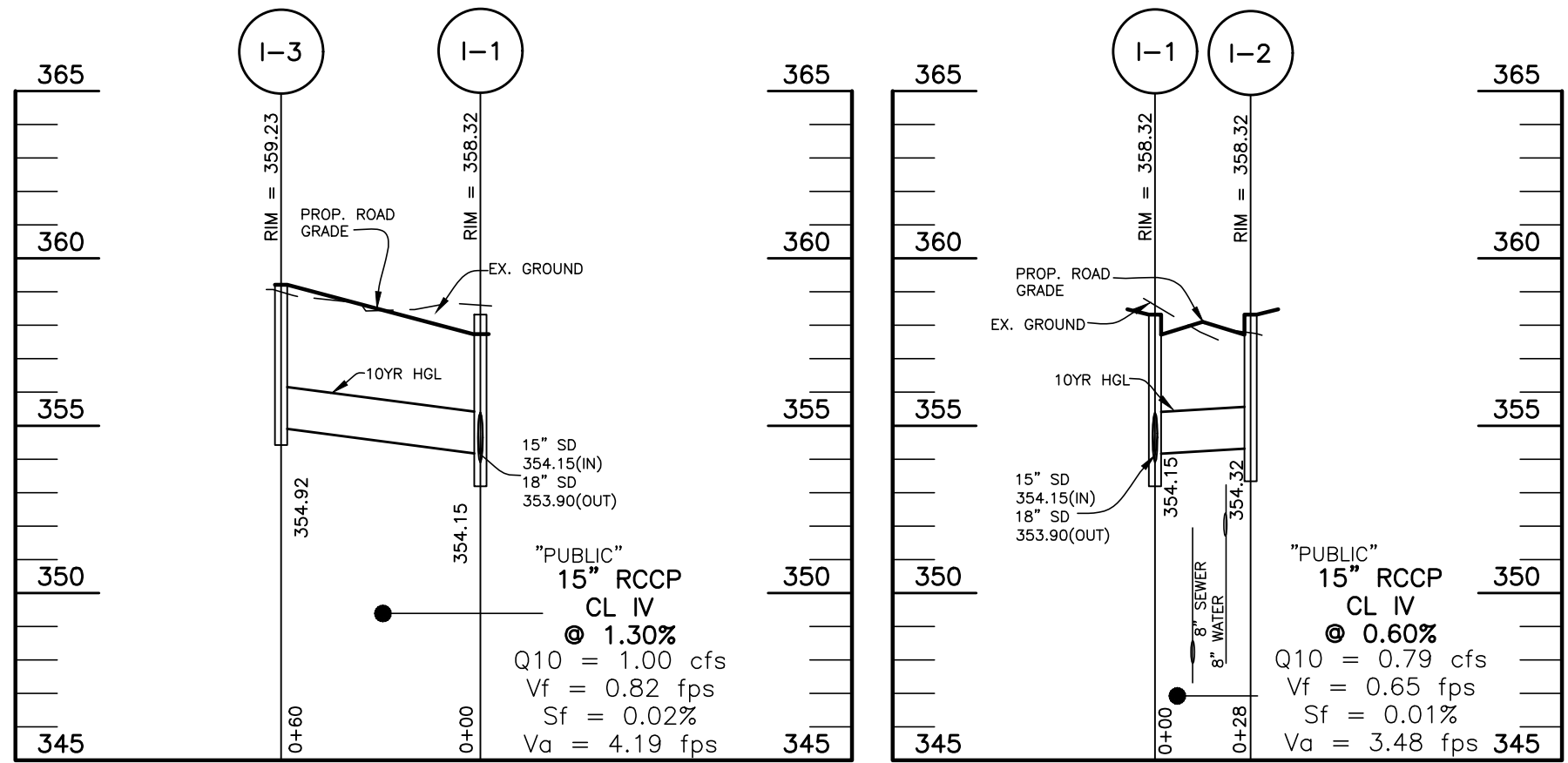
TAX MAP: 36 GRID: 17 PARCEL: 271  
ZONED: R-12  
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

**RESIDENTIAL FINAL CONSTRUCTION PLAN**  
**STORM DRAIN DRAINAGE AREA MAP**

DATE: AUGUST 2023 BEI PROJECT NO. 3080

SCALE: AS SHOWN SHEET 7 OF 9



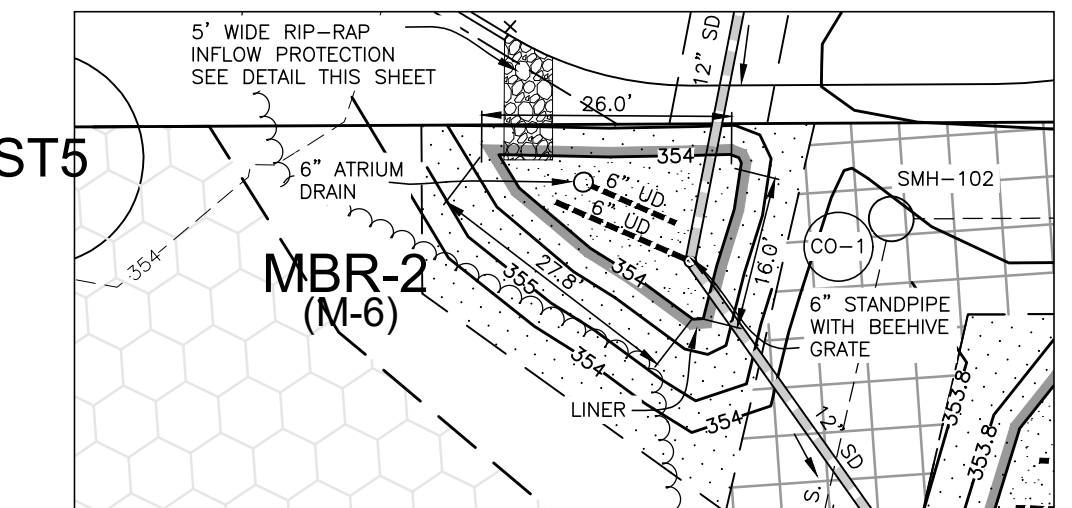
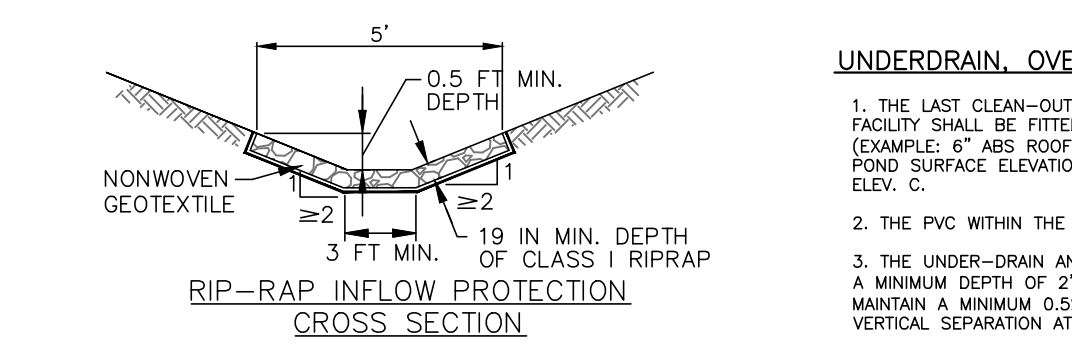
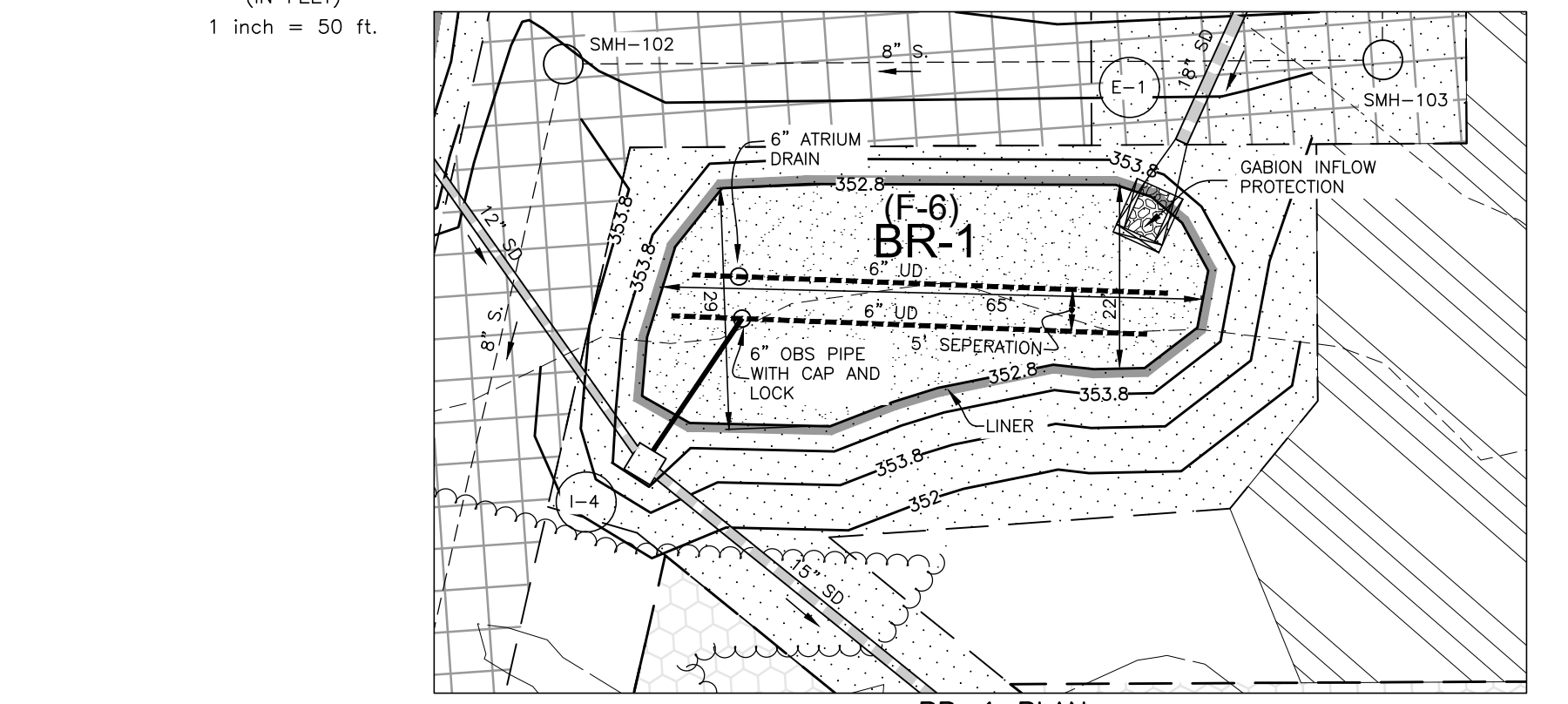
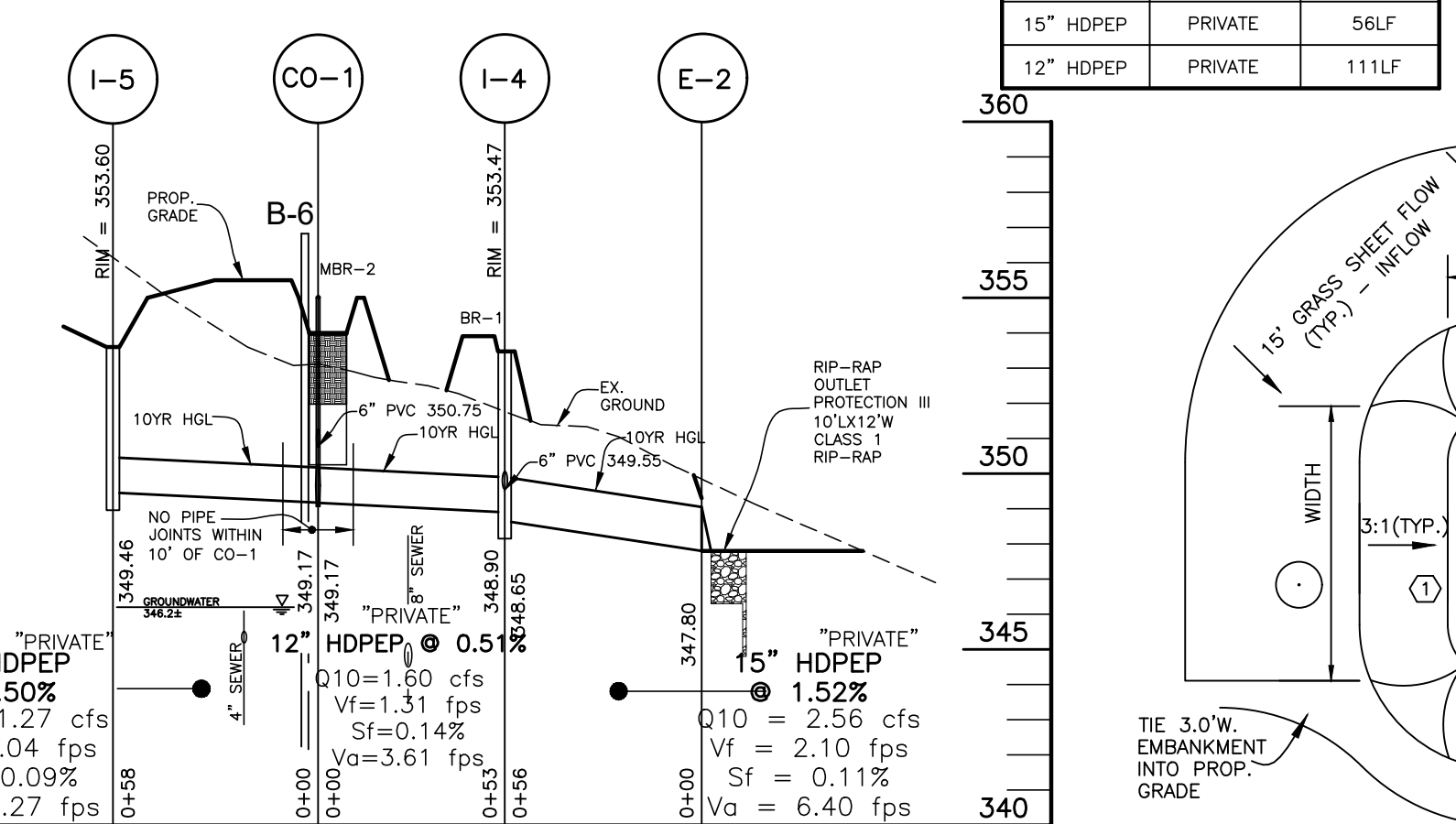
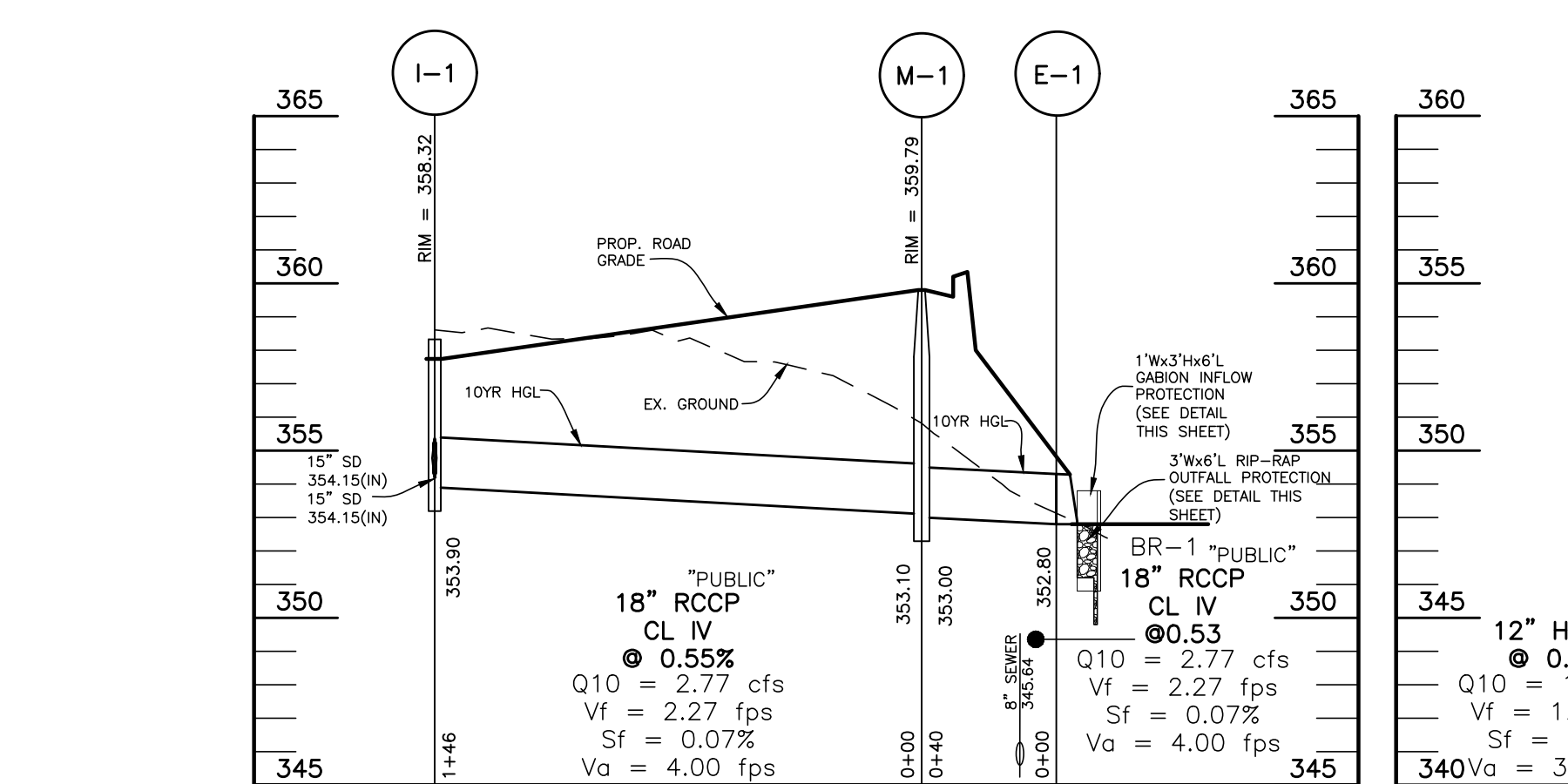
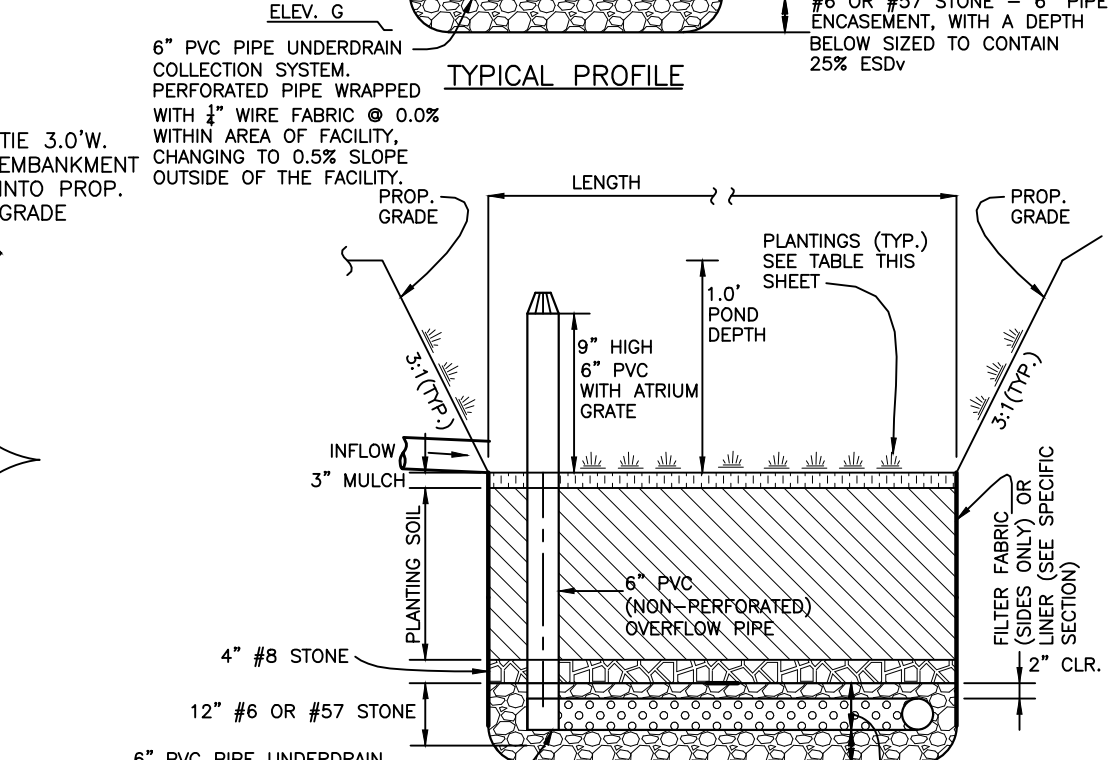
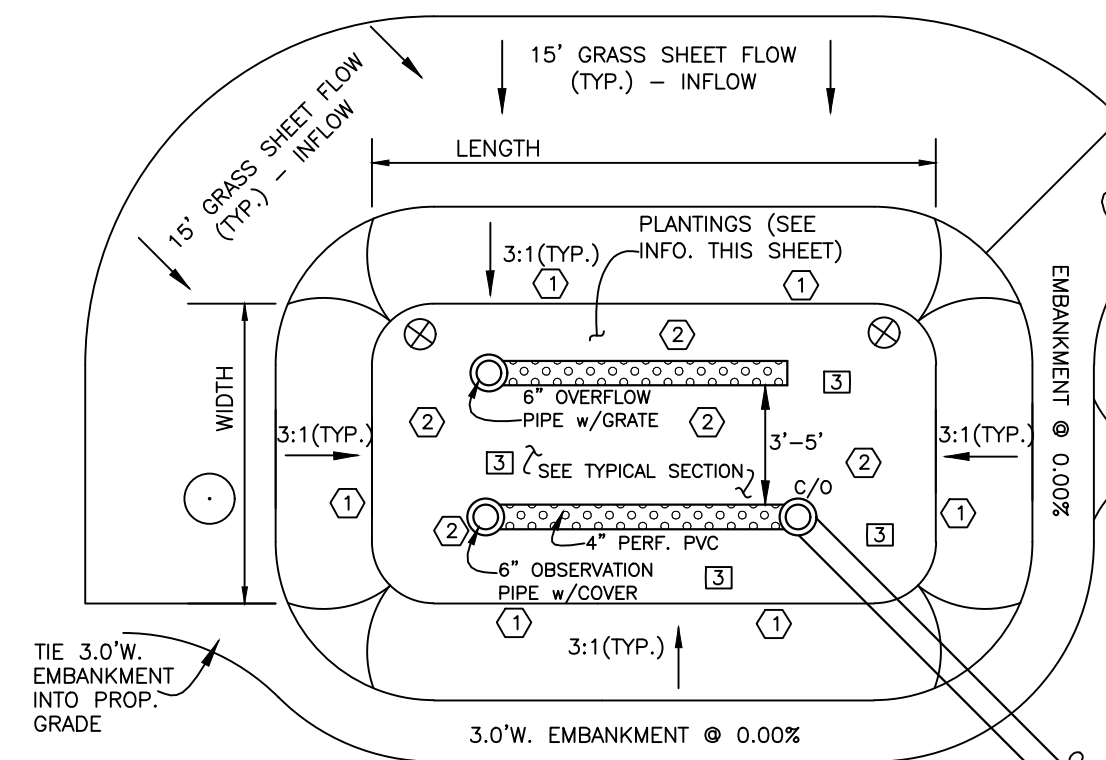
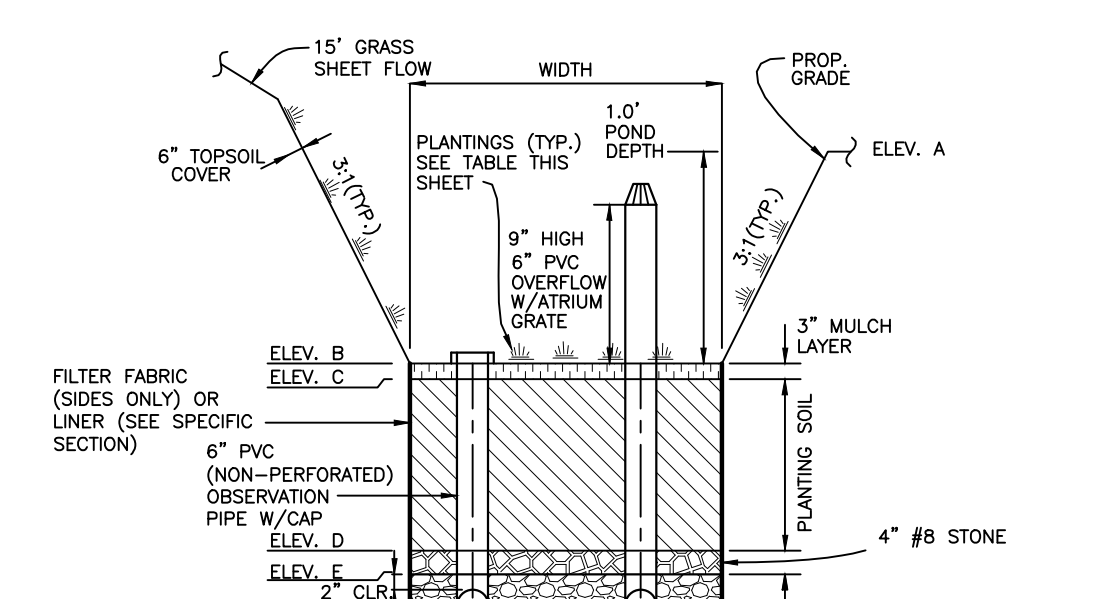


STRUCTURE TABLE with columns for NUMBER, TYPE, LOCATION, INVERT IN, INVERT OUT, TOP ELEV., STD. DETAIL, and OWNER.

ON-LOT BIORETENTION DIMENSIONS table with columns for FACILITY, A, B, C, D, E, F, G, LENGTH, WIDTH, FILTER (M), PLANTINGS (1, 2, 3), and LINER.

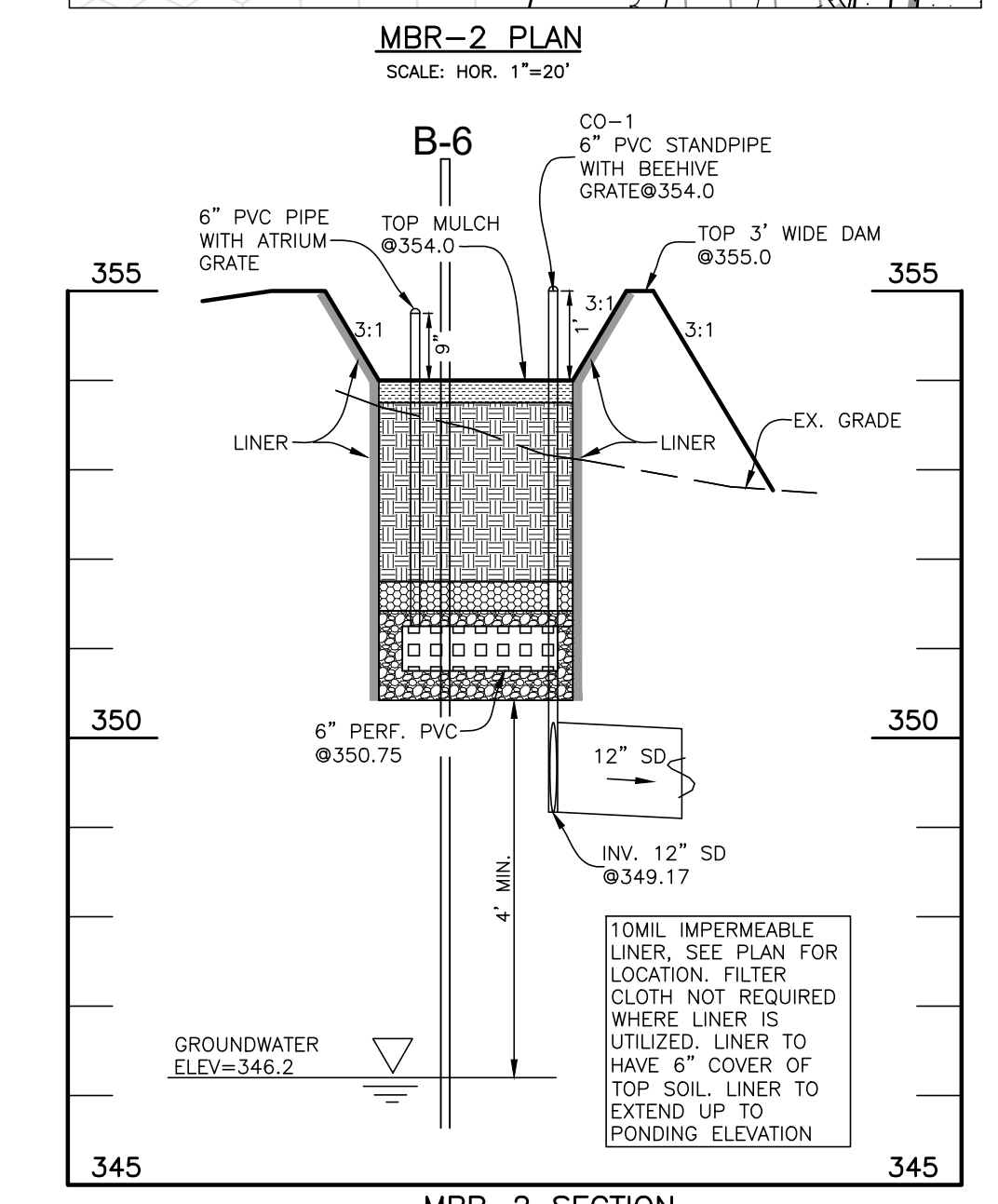
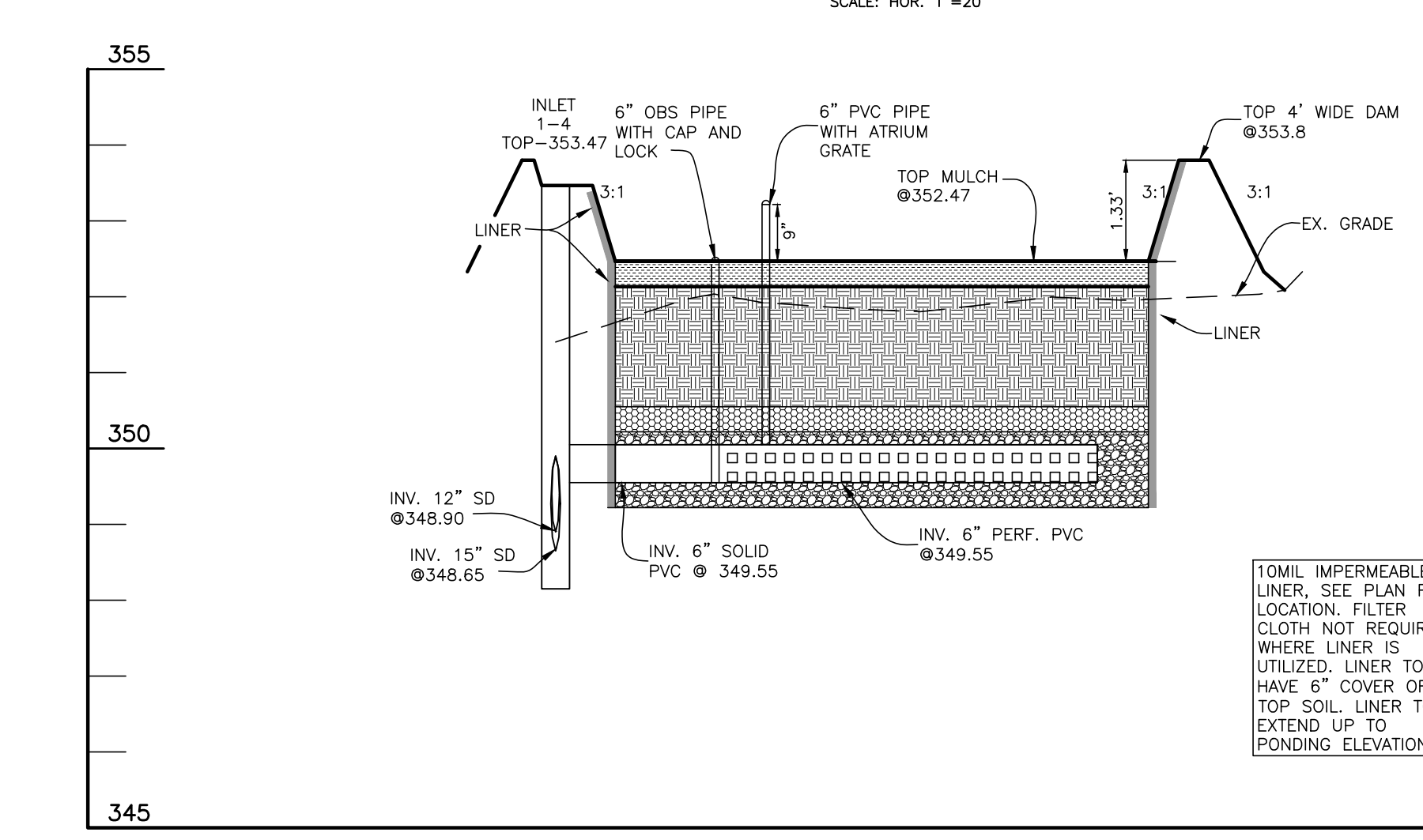
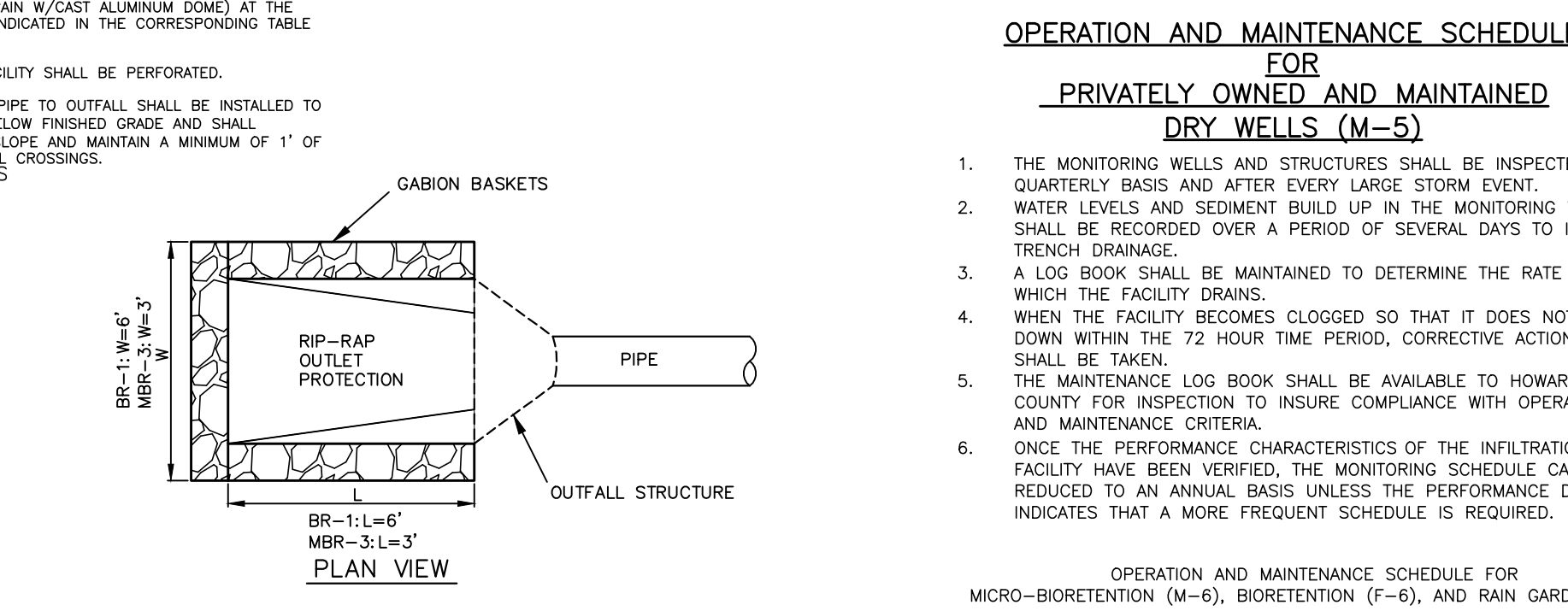
- MICROBIORETENTION PLANTING SCHEDULE listing plants like IRIS VERSICOLOR, LOBELIA CARDINALIS, and RUDEBECKIA SUBTORNOSA.

MICROBIORETENTION PLANTING DATA table with columns for TYPE, OWNERSHIP, and QUANTITY.

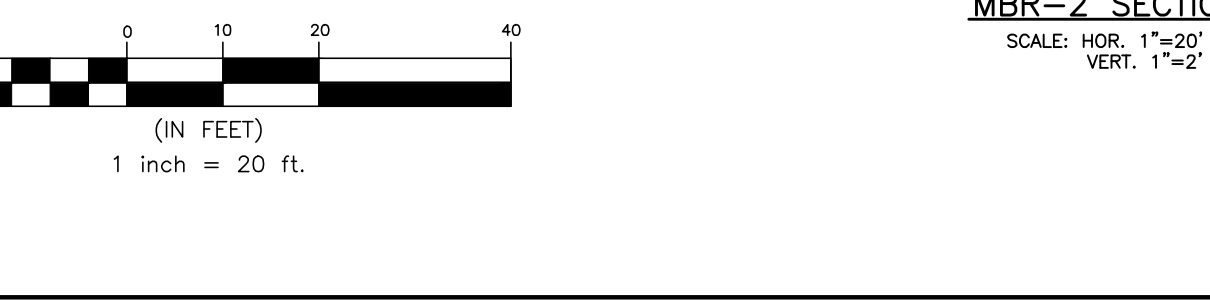


UNDERDRAIN, OVERFLOW AND OUTFALL NOTES

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)



APPROVED: DEPARTMENT OF PUBLIC WORKS and other official signatures and dates.



OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6), BIORETENTION (F-6), AND RAIN GARDEN (M-7)

Table B.4.1 Materials Specifications for Micro-Bioretenion, Rain Gardens & Landscape Infiltration

CONSTRUCTION SPECIFICATIONS

- B.4.C Specifications for Micro-Bioretenion, Rain Gardens, Landscape Infiltration & Infiltration Berms. Includes sections for Material Specifications, Planting Schedule, and Underdrains.

Project information including BENCHMARK ENGINEERING, INC., address, contact info, and project details for OLD MONTGOMERY LEADS.



SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE
GhB	YES	B	D	GLENELG URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	0.43
GnB*	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.49
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.32

ESD SUMMARY TABLE														
D.A.	SIZE	1.6	Inches	Total DA	ImperVIOUS	Ge	Required	Provided	At	2.5 DA	Depth	Required	Provided	ESD
MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR
MBR 1	65X29	(F-6)	34.098	18,240	0.54	682	1555	PASS	1.0	1812	1821	PASS	0.53	1.21
MBR 2	26X16	(M-6)	10,940	3,500	0.54	219	226	PASS	1.0	370	349	fail	0.34	1.13
MBR 3	32X8	(M-4)	8,628	2,270	0.42	182	240	PASS	1.0	134	166	PASS	0.28	0.88
RG 4	15X10	(M-7)	2,890	1,330	0.74	58	110	PASS	1.0	134	166	PASS	0.46	1.68
DW-1	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-2	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-3	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-4	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-5	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-6	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-7	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-8	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-9	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-10	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-11	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-12	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-13	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-14	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-15	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-16	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-17	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-18	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-19	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
DW-20	8x8	(M-5)	1,015	1,015	1.52	121	128	PASS	5.0	121	128	PASS	0.99	1.59
Totals/Average				75,628	43,438	3,260	4,457		REV	755 of	1119 of			1.78

Drywell No.	Length (ft)	Width (ft)	Stone Depth (ft)	Grade	Top of Stone	Bottom of Stone
DW-1	8.00	8.00	5.00	362.0	361.0	356.0
DW-2	8.00	8.00	5.00	362.0	361.0	356.0
DW-3	8.00	8.00	5.00	361.0	360.0	355.0
DW-4	8.00	8.00	5.00	361.0	360.0	355.0
DW-5	7.00	7.00	5.00	359.0	358.0	353.0
DW-6	7.00	7.00	5.00	359.0	358.0	353.0
DW-7	8.00	8.00	5.00	357.0	356.0	351.0
DW-8	8.00	8.00	5.00	358.0	357.0	352.0
DW-9	7.00	7.00	5.00	354.0	353.0	348.0
DW-10	7.00	7.00	5.00	355.0	354.0	349.0
DW-11	7.00	7.00	5.00	358.0	357.0	352.0
DW-12	7.00	7.00	5.00	358.0	357.0	352.0
DW-13	7.00	7.00	5.00	359.0	358.0	353.0
DW-14	7.00	7.00	5.00	359.0	358.0	353.0
DW-15	8.00	8.00	5.00	353.0	352.0	347.0
DW-16	8.00	8.00	5.00	353.0	352.0	347.0
DW-17	8.00	8.00	5.00	357.0	356.0	351.0
DW-18	8.00	8.00	5.00	357.0	356.0	351.0
DW-19	8.00	8.00	5.00	357.0	356.0	351.0
DW-20	8.00	8.00	5.00	356.0	355.0	350.0



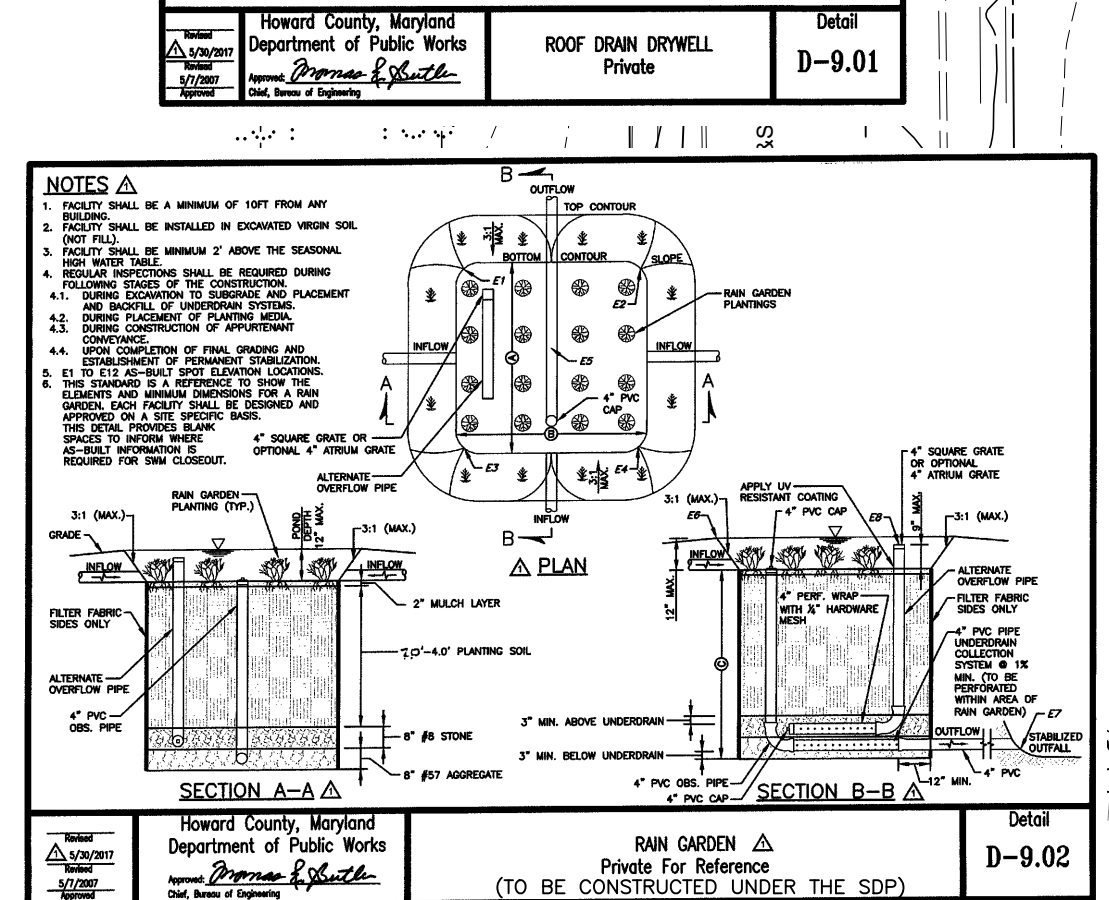
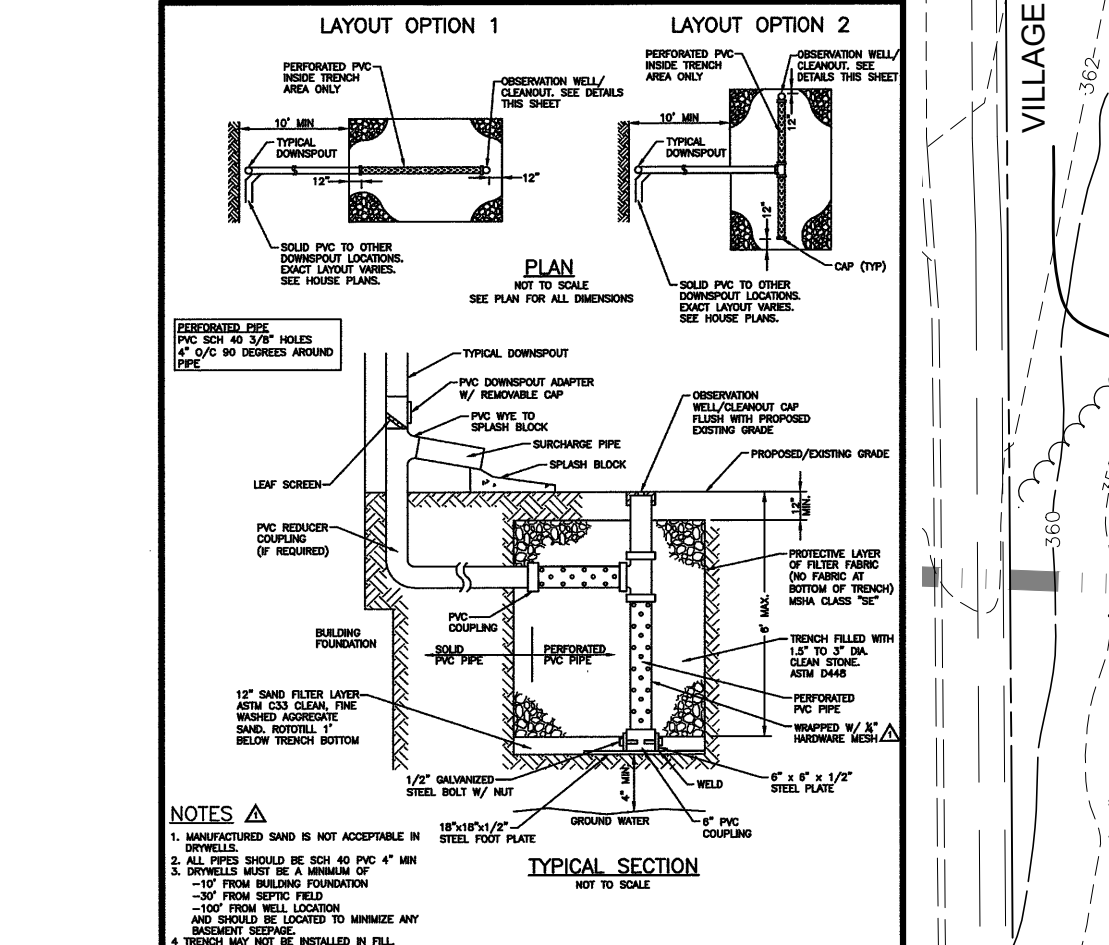
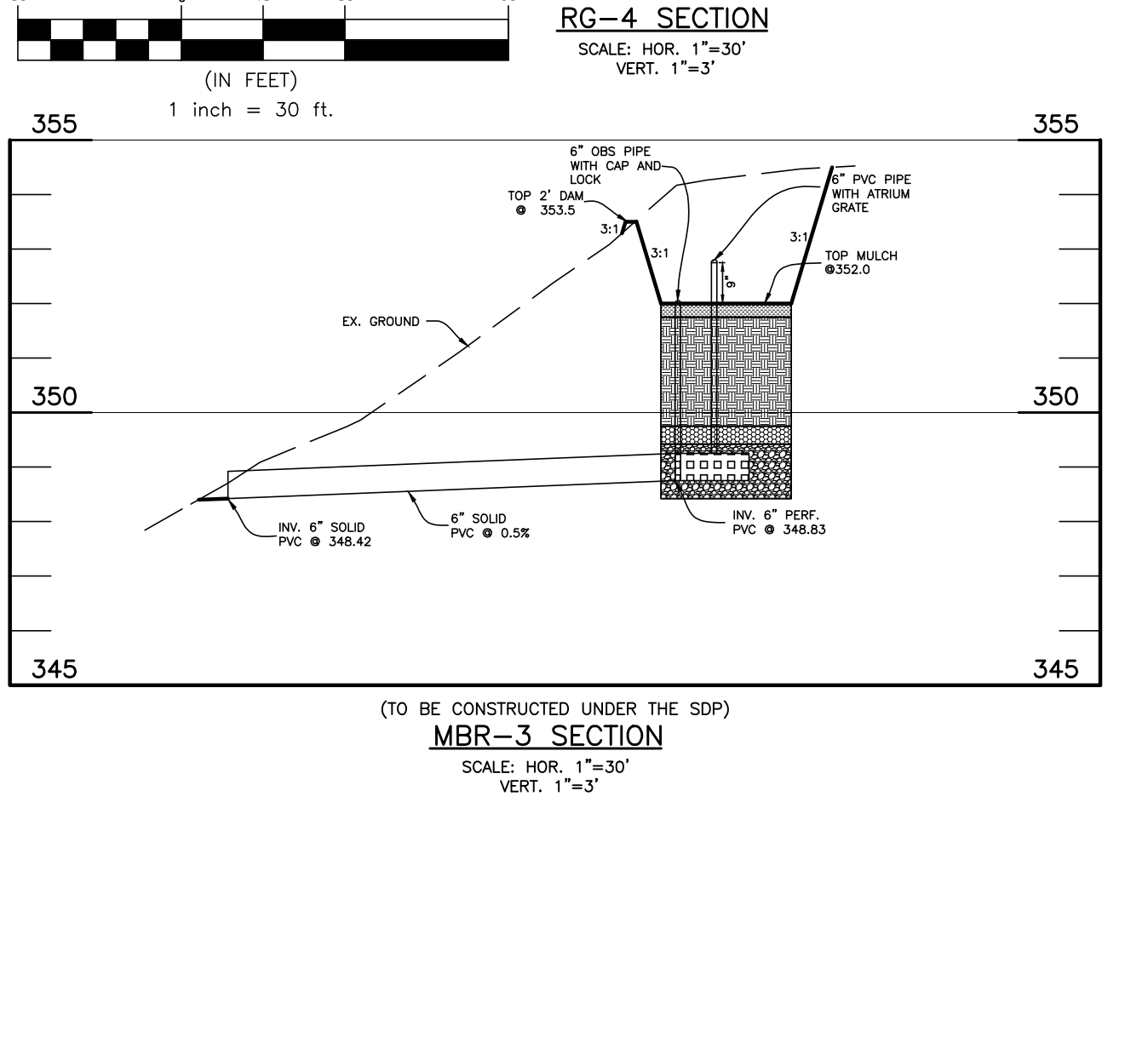
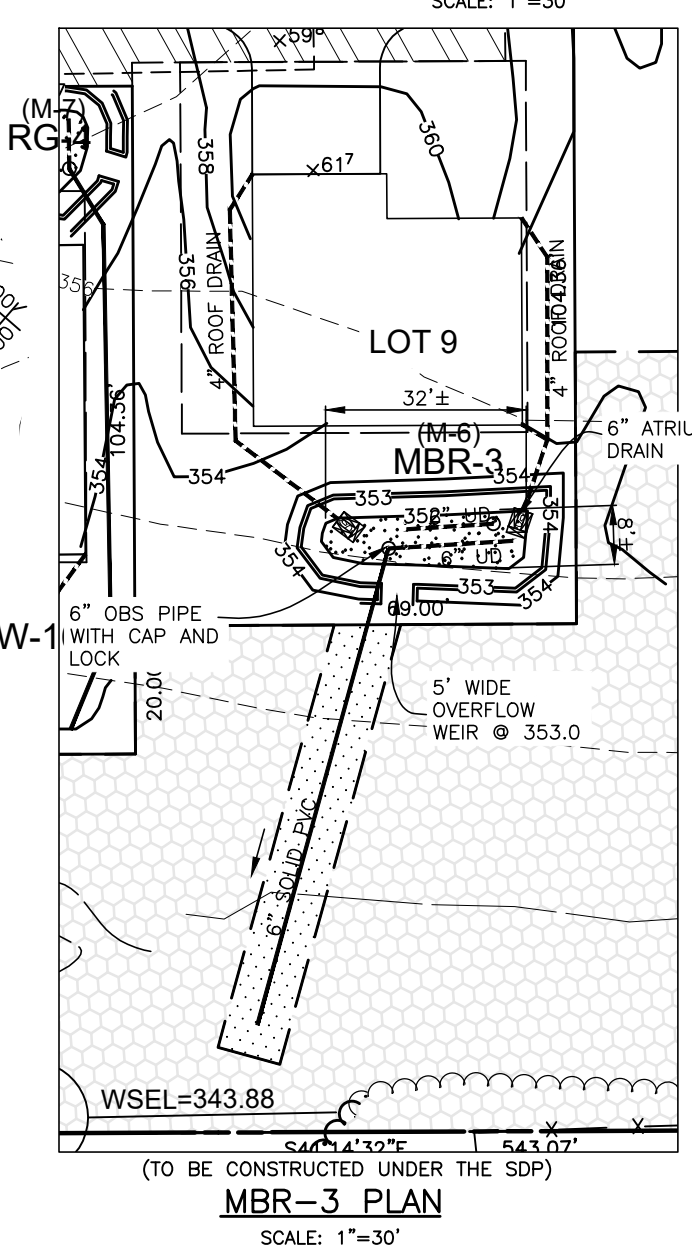
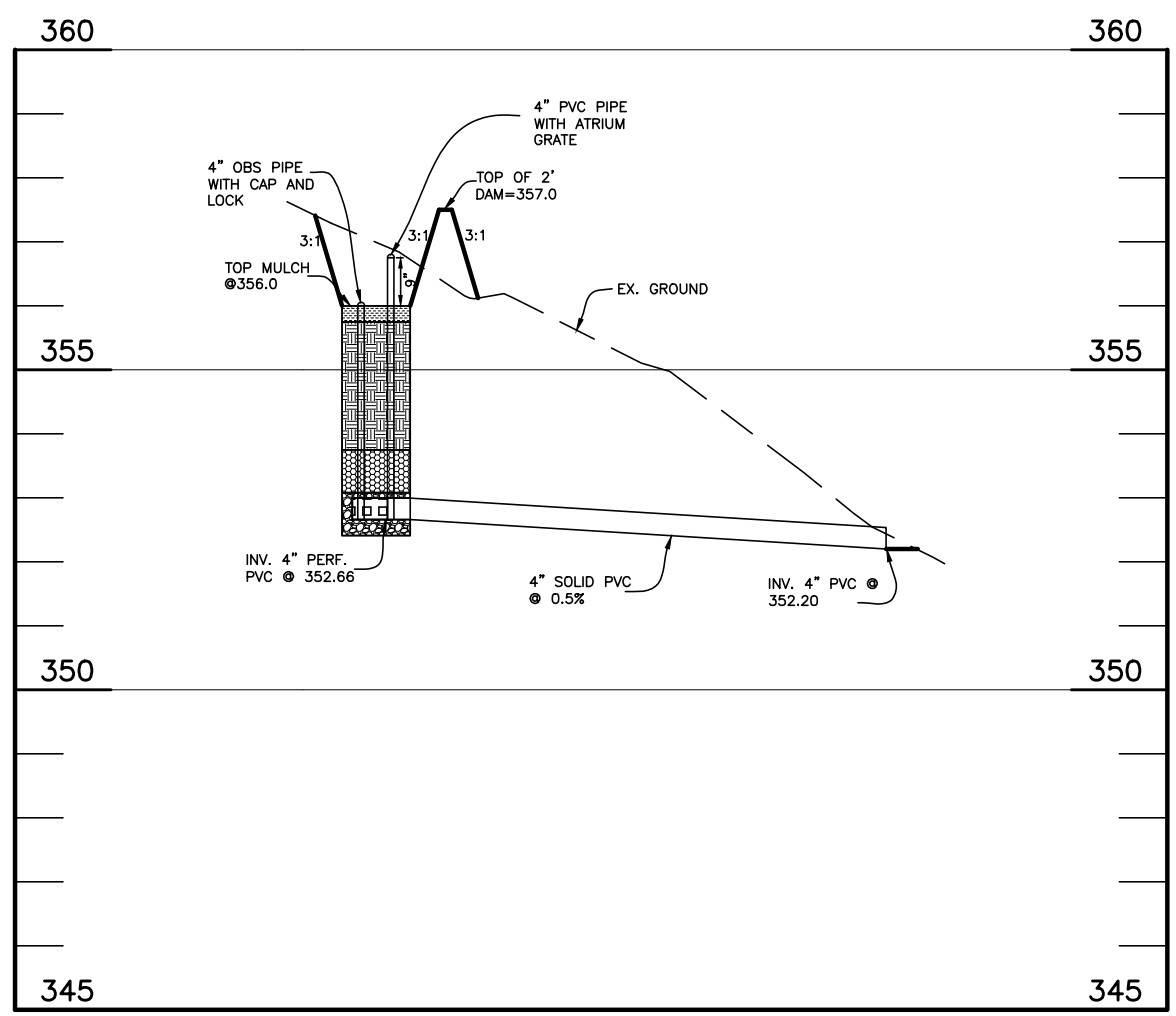
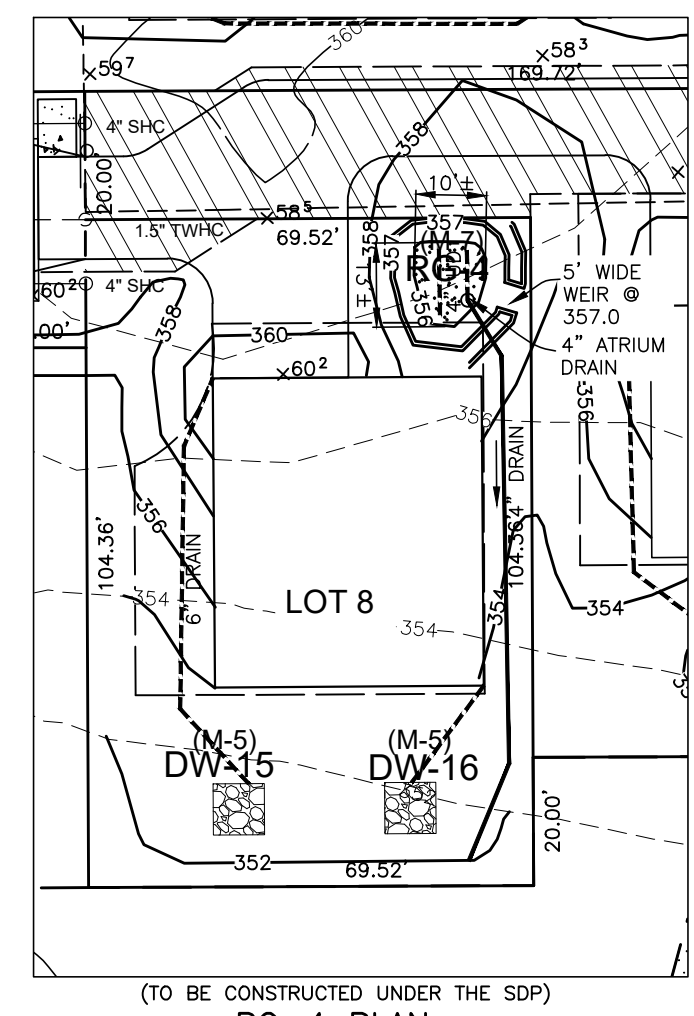
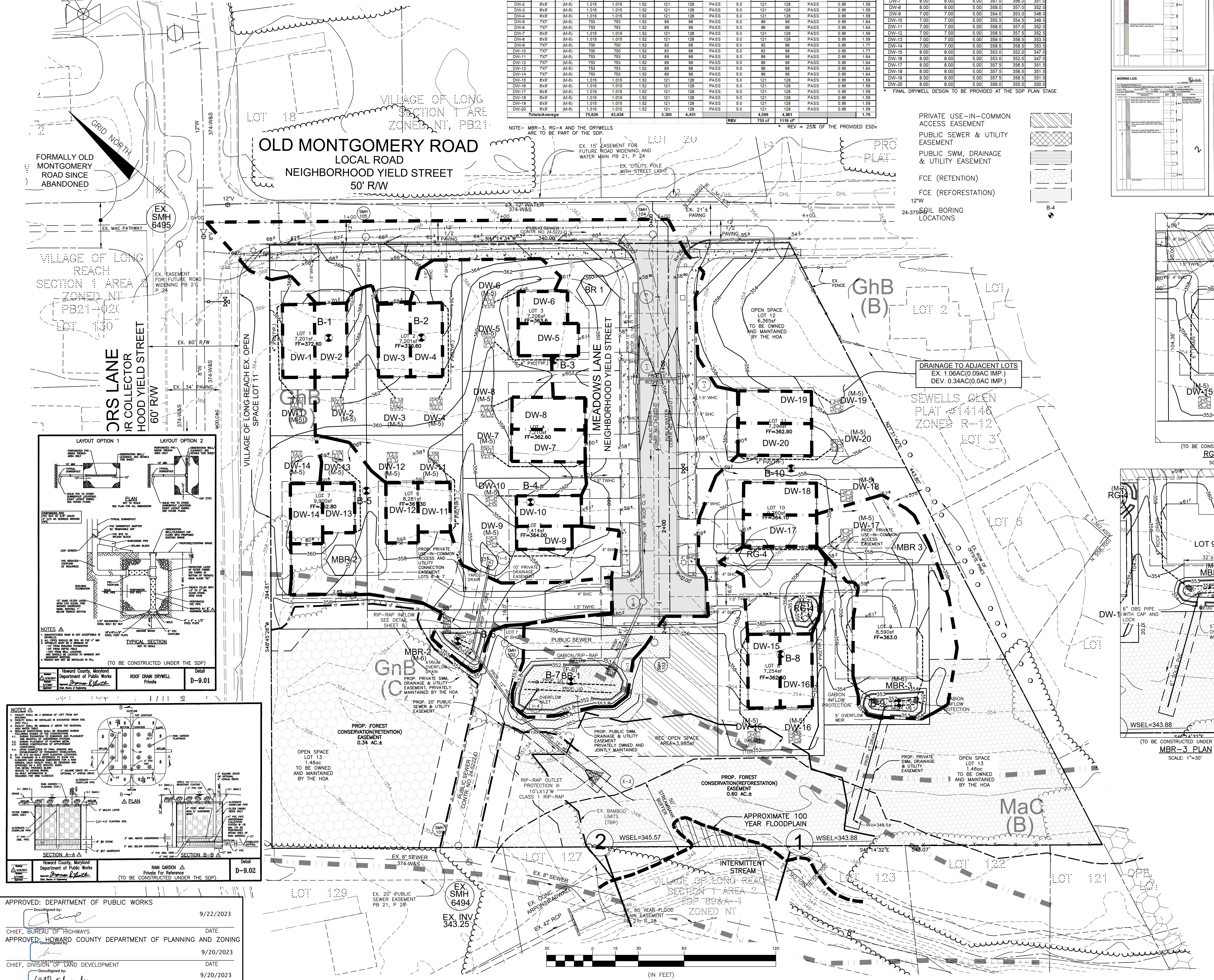
- PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PUBLIC SEWER & UTILITY EASEMENT
- PUBLIC SWM, DRAINAGE & UTILITY EASEMENT
- FCE (RETENTION)
- FCE (REFORESTATION)
- SOIL BORING LOCATIONS

NOTE: MBR-3, RG-4 AND THE DRYWELLS ARE TO BE PART OF THE SDP.

EX. 15' EASEMENT FOR LOT 10 FOR FUTURE ROAD WIDENING AND WATER MAIN P. 21, P. 24

EX. UTILITY POLE WITH STREET LIGHT

REV 755 of 1119 of



APPROVED: DEPARTMENT OF PUBLIC WORKS

9/22/2023

CHIEF, BUREAU OF HIGHWAYS

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

9/20/2023

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE

9/20/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
 3300 NORTH RIDGE ROAD & SUITE 140 • ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6644  
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OWNER: DEVELOPMENT PARTNERS, LLC  
 9693 GERWICK LANE, SUITE L  
 COLUMBIA, MD 21046  
 443-676-2417

DEVELOPER: DEVELOPMENT PARTNERS, LLC  
 9693 GERWICK LANE, SUITE L  
 COLUMBIA, MD 21046  
 443-676-2417

**OLD MONTGOMERY MEADOWS**  
 LOTS 1-11 AND OPEN SPACE LOTS 12 & 13  
 9005 OLD MONTGOMERY ROAD

TAX MAP: 36 GRID: 17 PARCEL: 271  
 ZONED: R-12  
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

RESIDENTIAL  
 FINAL ROAD PLAN  
 STORMWATER MANAGEMENT DRAINAGE AREA MAP

DATE: AUGUST 2023 BEI PROJECT NO. 3080  
 SCALE: AS SHOWN SHEET 9 OF 9