

GENERAL NOTES

- 1. THE SUBJECT PROPERTY IS ZONED RR-DEO (PER 10/06/13 COMPREHENSIVE ZONING PLAN.)
2. BOUNDARY IS BASED ON FIELD RUN SURVEY PERFORMED BY JNM ENGINEERING, INC. IN SEPTEMBER 2022.
3. CONTOURS ARE BASED ON FIELD RUN SURVEY PERFORMED BY JNM ENGINEERING IN JANUARY 2023.
4. COORDINATES BASED ON NAD83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 33 AND NO. 21CB.

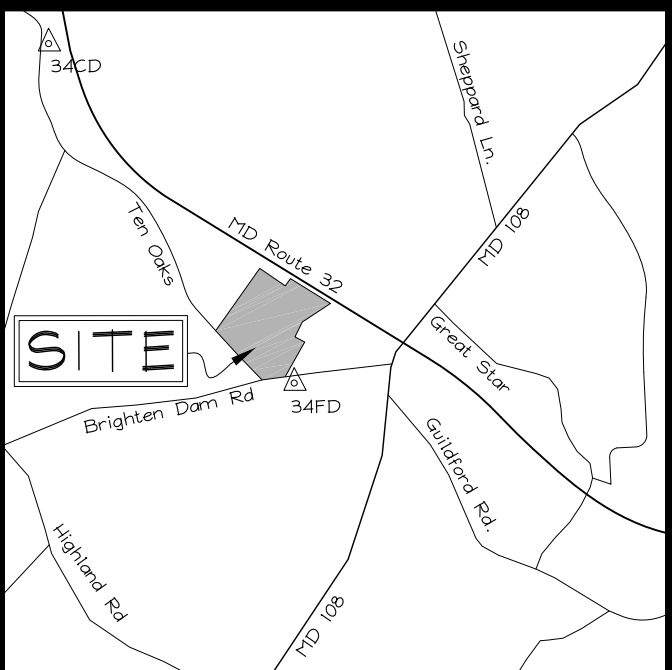
SOILS DATA TABLE

Table with 5 columns: SYMBOL, SOIL, HYDRIC, K-FACTOR, ERODIBLE, GROUP. Rows include GgC, GmB, and GmB with soil descriptions like 'Glennetg Loam, 8%-15% Slopes'.

SWM PRACTICE TABLE

Table with 10 columns: D.A., PRACT., IMP. AREA, TOTAL AREA, REQ. PE, REQ. ESDv, PROV. PE, PROV. ESDv, LOT. Rows include DAI, DA2, DA3, DA4, DA5, HSE 1, HSE 2.

LEGEND section containing EXISTING FEATURES and PROPOSED FEATURES with corresponding symbols and line styles for items like utility poles, spot elevations, and drainage.

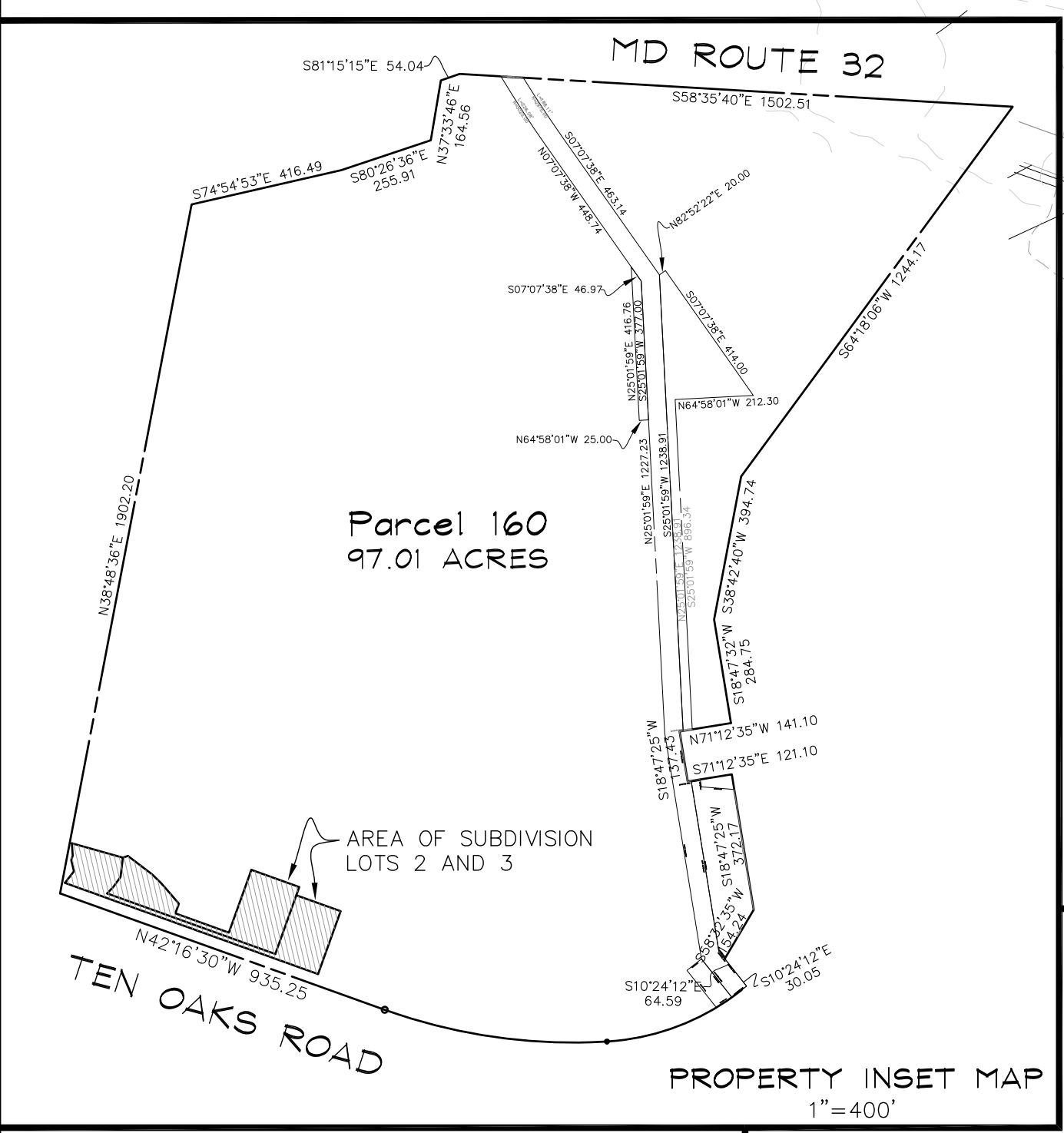


VICINITY MAP SCALE: 1" = 2000' HOWARD COUNTY ADC MAP II, GRID H5 SURVEY CONTROL: POINT 34CD, N 561461.63 E 1323850.4

PROJECT INFORMATION table with columns for DATE, PROJECT, ILLUSTRATION, SCALE, and APPROVAL.

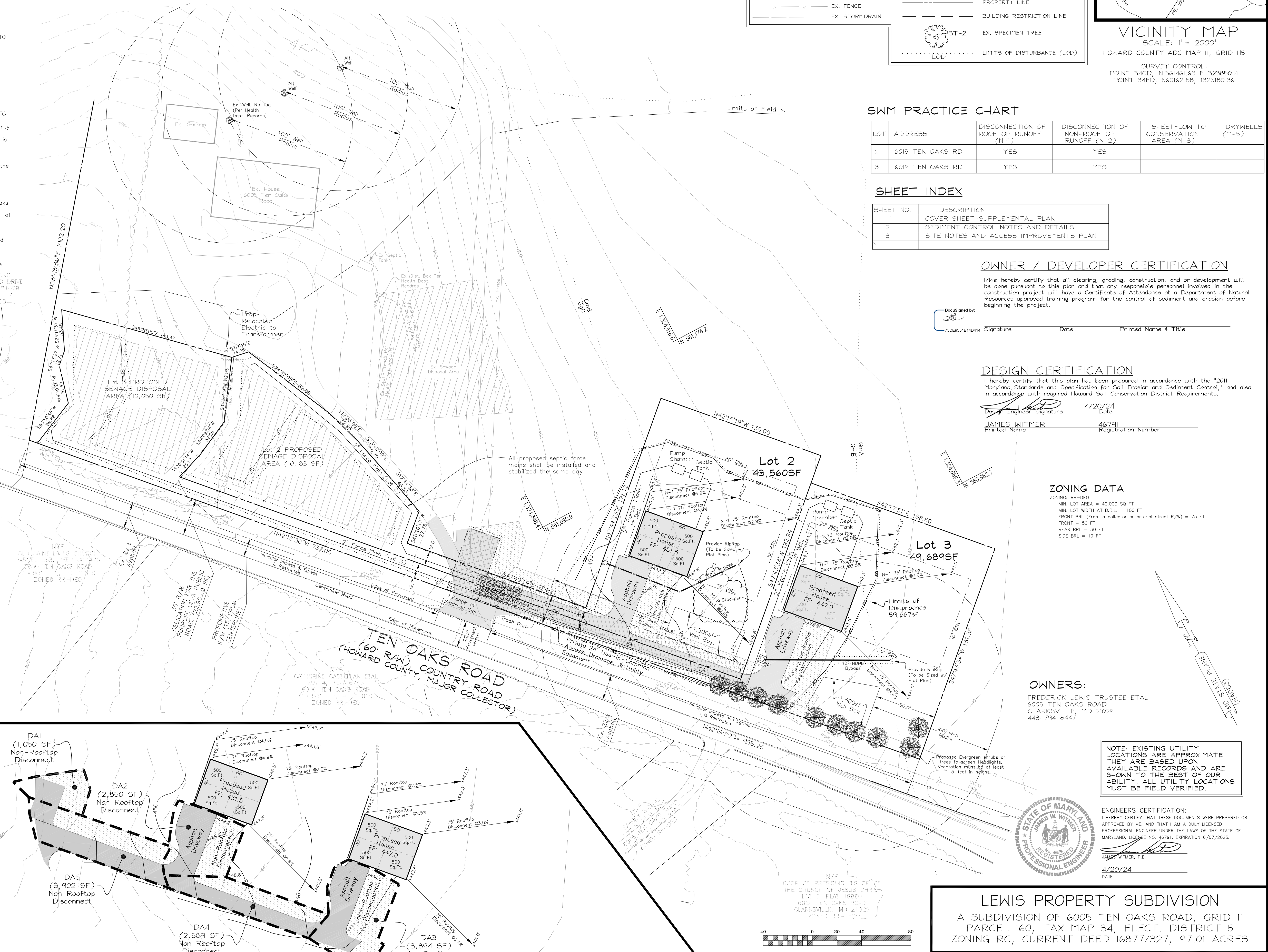
SITE ANALYSIS DATA SHEET

TOTAL PROJECT AREA (SUBDIVISION) 214 ACRES±
AREA OF PLAN SUBMISSION: 2.14 ACRES±
AREA OF WETLANDS & BUFFER: 0 ACRES



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS DATE 7/30/2024
APPROVED: HOWARD SOIL CONSERVATION DISTRICT DATE 7/30/2024
APPROVED: DEPARTMENT OF PLANNING & ZONING DATE 7/30/2024

PROPOSED SWM D.A.M. (SEE PLAN FOR DA 6) Scale: 1"=40'



SWM PRACTICE CHART

Table with 5 columns: LOT, ADDRESS, DISCONNECTION OF ROOFTOP RUNOFF (N-1), DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2), SHEETFLOW TO CONSERVATION AREA (N-3), DRYWELLS (M-5).

SHEET INDEX

Table with 2 columns: SHEET NO., DESCRIPTION. Rows include COVER SHEET-SUPPLEMENTAL PLAN, SEDIMENT CONTROL NOTES AND DETAILS, SITE NOTES AND ACCESS IMPROVEMENTS PLAN.

OWNER / DEVELOPER CERTIFICATION

I/We hereby certify that all clearing, grading, construction, and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

DESIGN CERTIFICATION

I hereby certify that this plan has been prepared in accordance with the '2011 Maryland Standards and Specification for Soil Erosion and Sediment Control,' and also in accordance with required Howard County Soil Conservation District Requirements.

ZONING DATA

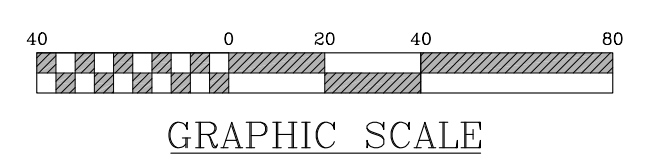
ZONING RR-DEO
MIN. LOT AREA = 40,000 SQ FT
MIN. LOT WIDTH AT B.R.L. = 100 FT
FRONT B.R.L. (From a collector or arterial street R/W) = 75 FT

OWNERS:

FREDERICK LEWIS TRUSTEE ETAL
6005 TEN OAKS ROAD
CLARKSVILLE, MD 21029
443-794-8447

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THEY ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN TO THE BEST OF OUR ABILITY. ALL UTILITY LOCATIONS MUST BE FIELD VERIFIED.

ENGINEERS 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. 46791, EXPIRATION 6/07/2025.



LEWIS PROPERTY SUBDIVISION
A SUBDIVISION OF 6005 TEN OAKS ROAD, GRID II
PARCEL 160, TAX MAP 34, ELECT. DISTRICT 5
ZONING RC, CURRENT DEED 16877/327, 97.01 ACRES

SUPPLEMENTAL PLAN

PARCEL 160, MAP 34, 5TH ELECT. DISTRICT
LEWIS PROPERTY SUBDIVISION
CLARKSVILLE, HOWARD COUNTY, MARYLAND
SUPPLEMENTAL PLAN

JNM ENGINEERING, LLC
CIVIL ENGINEERING, SURVEYING, LAND PLANNING, ENVIRONMENTAL, ARBORICULTURE, LEED PROFESSIONALS
1105 LEAFY HOLLON CIRCLE, MOUNT AIRY, NC (301) 514-2808, JNMENGINEERINGLLC.COM



B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition
The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose
To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies
Where vegetative stabilization is to be established.

- Criteria
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 agricultural or construction equipment...

- B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation.
2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications.
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

- C. Soil Amendments (Fertilizer and Lime Specifications)
1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more.
2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment.

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

Definition
The application of seed and mulch to establish vegetative cover.

Purpose
To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

- Criteria
A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory.
2. Application
a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

- B. Mulching
1. Mulch Materials (in order of preference)
a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color.
2. Anchoring
a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

Definition
A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose
To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies
Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

- Criteria
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.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.

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), 410-313-1855 after the future LOD and protected areas are marked clearly in the field.
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days...

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition
To stabilize disturbed soils with permanent vegetation.

Purpose
To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies
Exposed soils where ground cover is needed for 6 months or more.

- Criteria
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 (from Figure B.3) and based on the site condition or purpose found in Table B.2.
2. Turfgrass Mixtures
a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a minimum level of consumer protection and assures a pure genetic line.

- d. Ideal Times of Seeding for Turf Grass Mixtures
Western MD: March 15 to June 1, August 1 to October 1 (Hardness Zones: 5b, 6a)
Central MD: March 1 to May 15, May 15 to October 15 (Hardness Zone: 6b)
Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardness Zones: 7a, 7b)
d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the area to prepare a proper seedbed.

Permanent Seeding Summary

Table with columns: Hardness Zone, Seed Mixture, Application Rate, Seeding Dates, Seeding Depths, N, P2O5, K2O, Lime Rate. Includes rows for Tall Fescue and Kentucky Bluegrass/Perennial Rye.

- B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).
1. General Specifications
a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
2. Sod Installation
a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.

- SEQUENCE OF CONSTRUCTION
1. NOTIFY HOWARD COUNTY'S SEDIMENT CONTROL INSPECTOR AT 410-313-1855 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION (1 DAY)
2. THE GENERAL CONTRACTOR SHALL NOT COMMENCE ANY LAND DISTURBING ACTIVITIES PRIOR TO OBTAINING A GRADING PERMIT (1 DAY)
3. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE CONSTRUCTION MANAGER AND THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.

ENGINEER'S CERTIFICATION: I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE '2011 Maryland Standards and Specification for Soil Erosion and Sediment Control,' and also in accordance with required Howard Soil Conservation District Requirements.

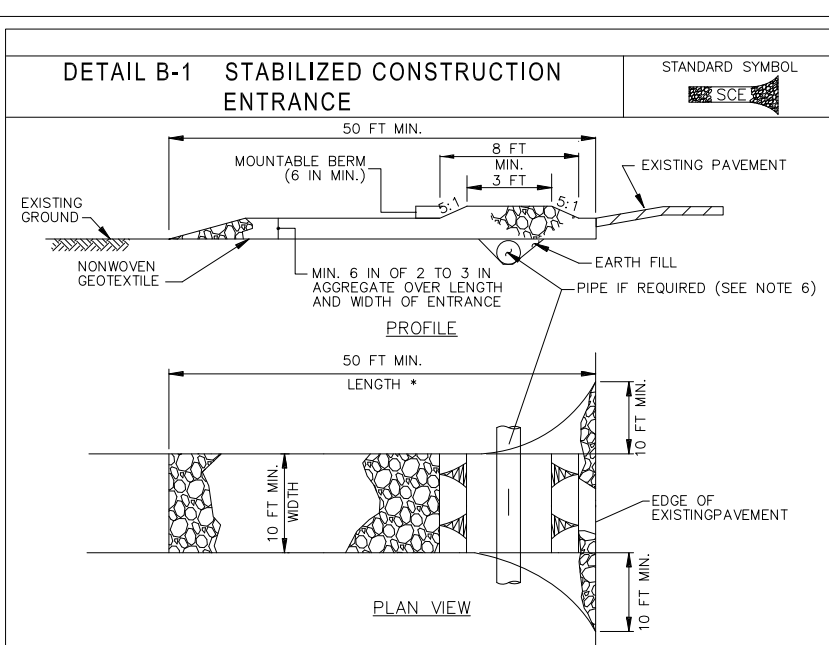
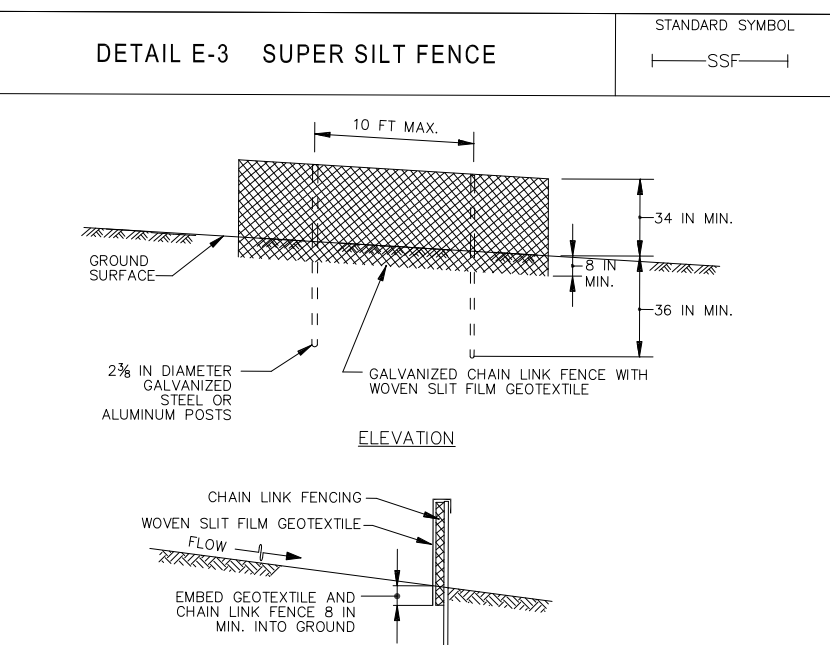
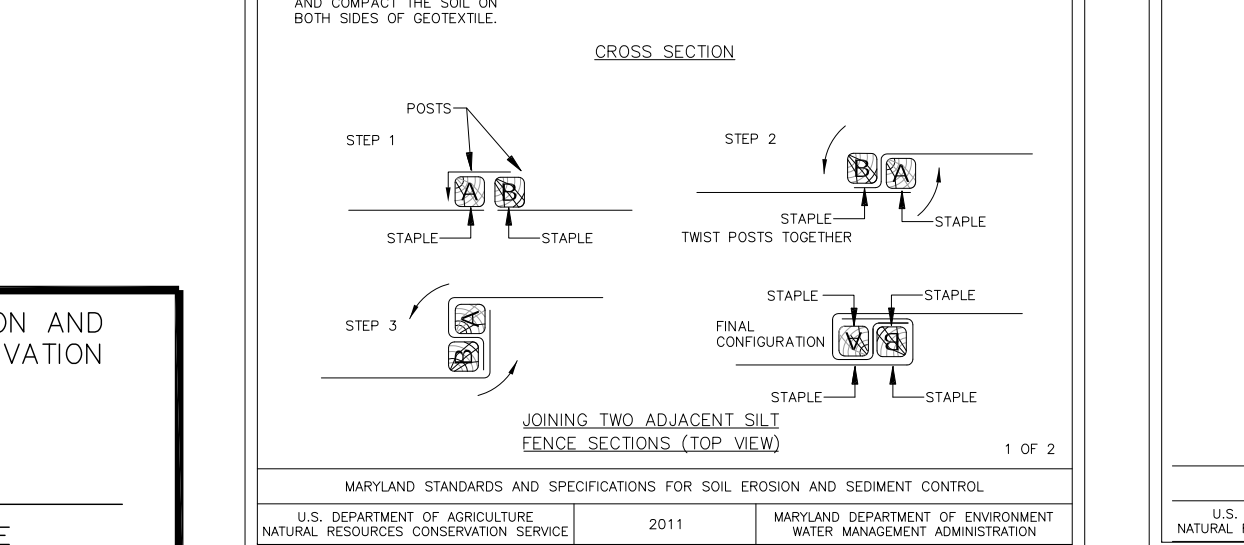
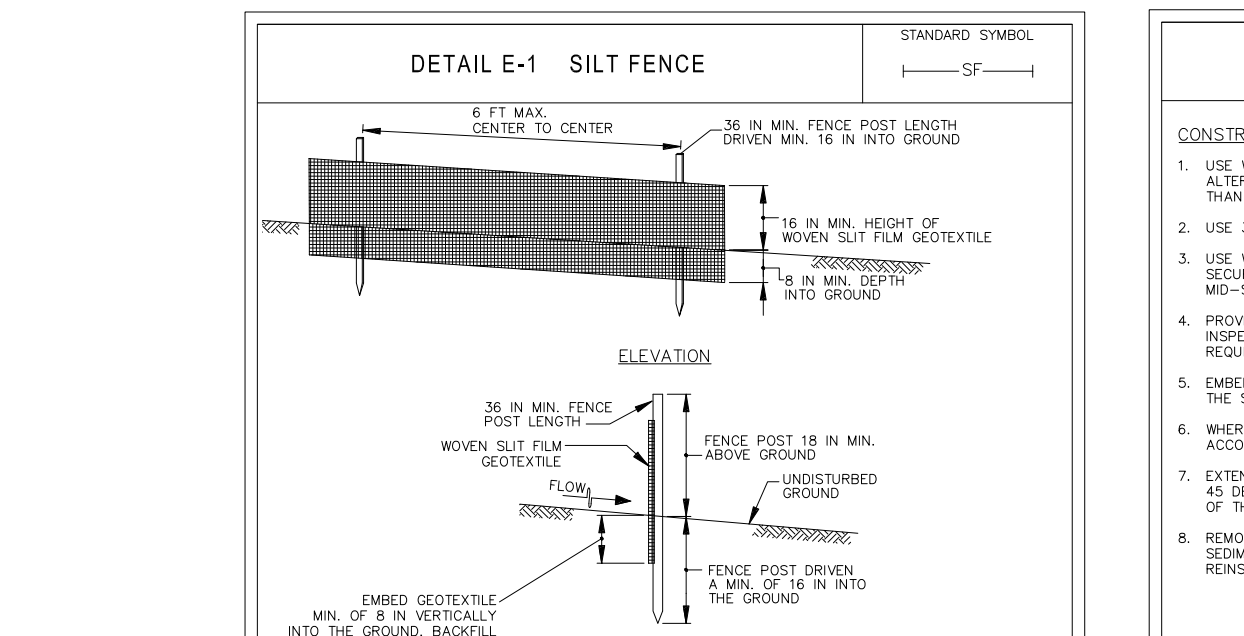


Table B-1: Temporary Seeding for Site Stabilization. Columns: Plant Species, Seeding Rate (lb/ac), Seeding Depth (inches), Recommended Seeding Dates by Plant Hardiness Zone (5b and 6a).

CONSTRUCTION SPECIFICATIONS
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SIZE. USE MINIMUM LENGTH OF 50 FEET (30 FEET MINIMUM AT THE ENTRANCE).
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED THROUGH THE SIZE UNDER THE ENTRANCE.

CONSTRUCTION SPECIFICATIONS
1. INSTALL 2x4 IN DIAMETER GALVANIZED STEEL POSTS OF 6.00 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (24 INCH MAXIMUM OPENINGS) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUNG RINGS.



CONSTRUCTION SPECIFICATIONS
1. USE WOOD POSTS 1 1/2 x 1 1/2 x 16 INCH (MINIMUM) SQUARE OUT OF SOUND QUALITY HARDWOOD.
2. USE 36 INCH MINIMUM POSTS DRIVEN 18 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SILT FLM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSTREAM SIDE OF FENCE POSTS WITH WIRE TIES OR CHAINS AT 10' AND MID-SECTION.

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Signature: [Blank] Date: [Blank] Printed Name: [Blank] Title: [Blank]

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
7/30/2024
CHIEF, BUREAU OF HIGHWAYS
APPROVED: DEPARTMENT OF PLANNING & ZONING
7/30/2024
CHIEF, DEVELOPMENT/ENGINEERING DIVISION
APPROVED: ALEXANDER BRATKIE
7/30/2024
CHIEF, DIVISION OF LAND DEVELOPMENT

HOWARD SOIL CONSERVATION DISTRICT
DATE: 7/30/2024
APPROVED: ALEXANDER BRATKIE
7/30/2024

LEWIS PROPERTY SUBDIVISION

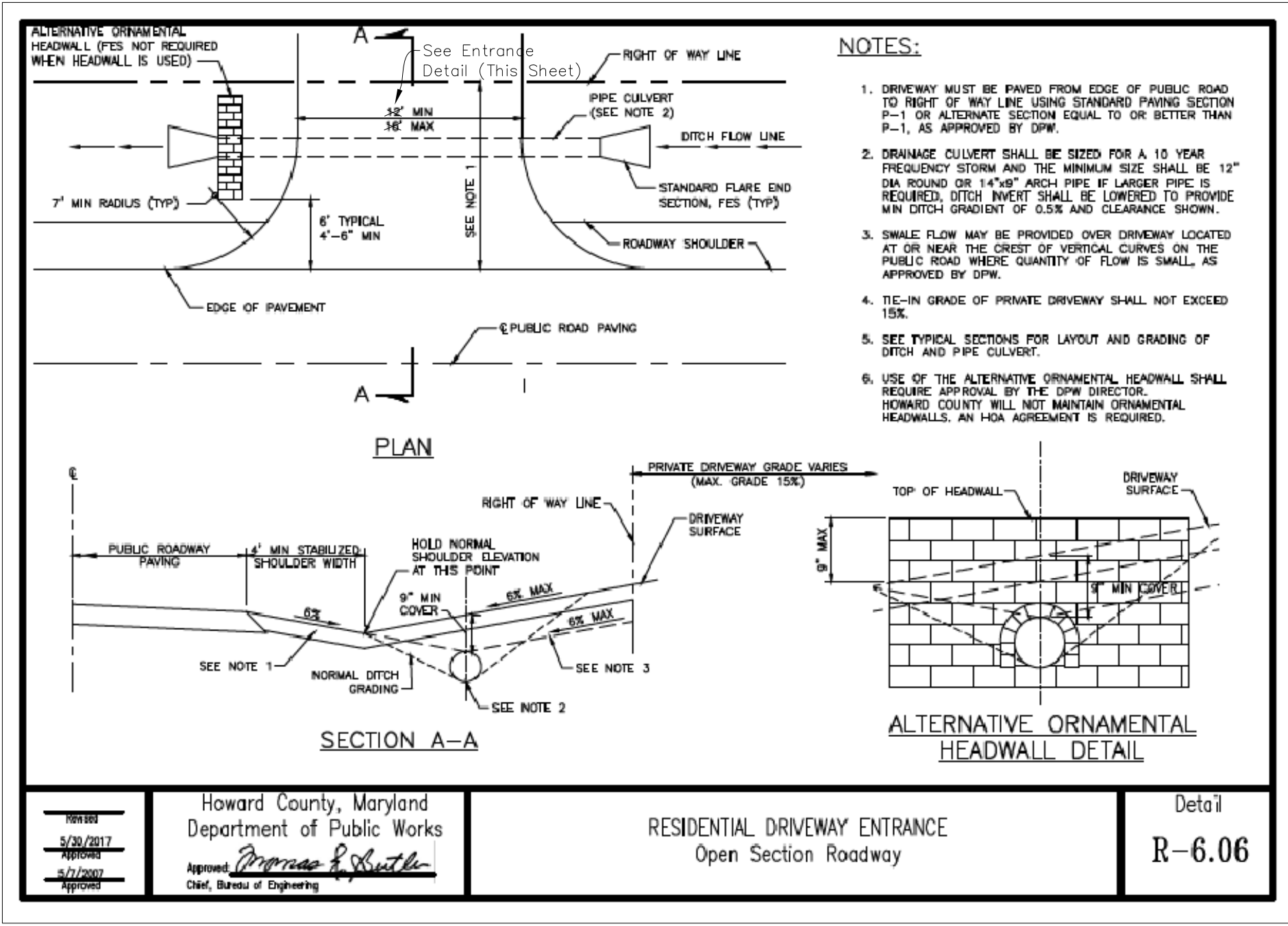
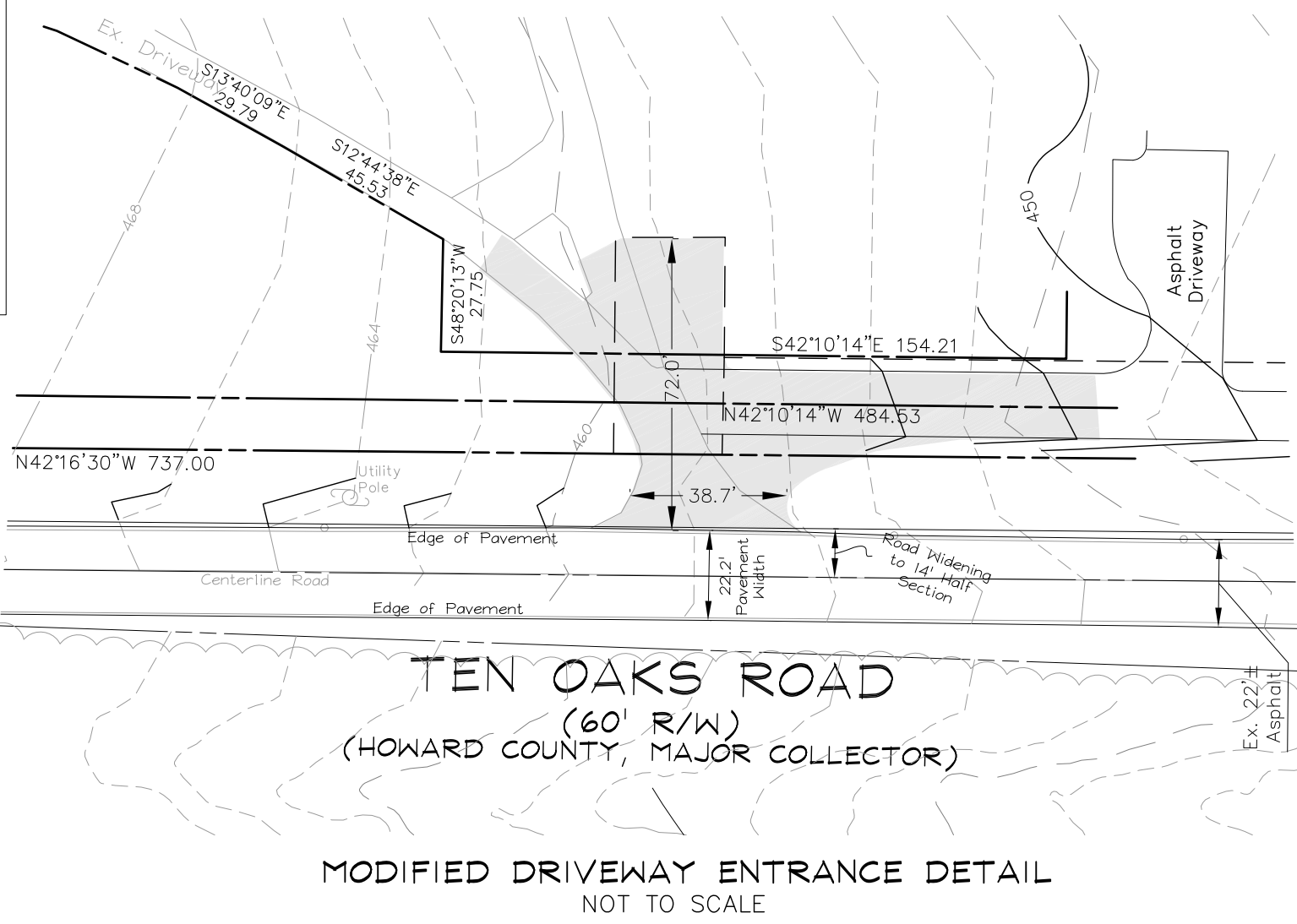
A SUBDIVISION OF 6005 TEN OAKS ROAD, GRID II PARCEL 160, TAX MAP 34, ELEC. DISTRICT 5 ZONING RC, CURRENT DEED I6877/327, 97.01 ACRES

SUPPLEMENTAL PLAN SEDIMENT CONTROL NOTES AND DETAILS

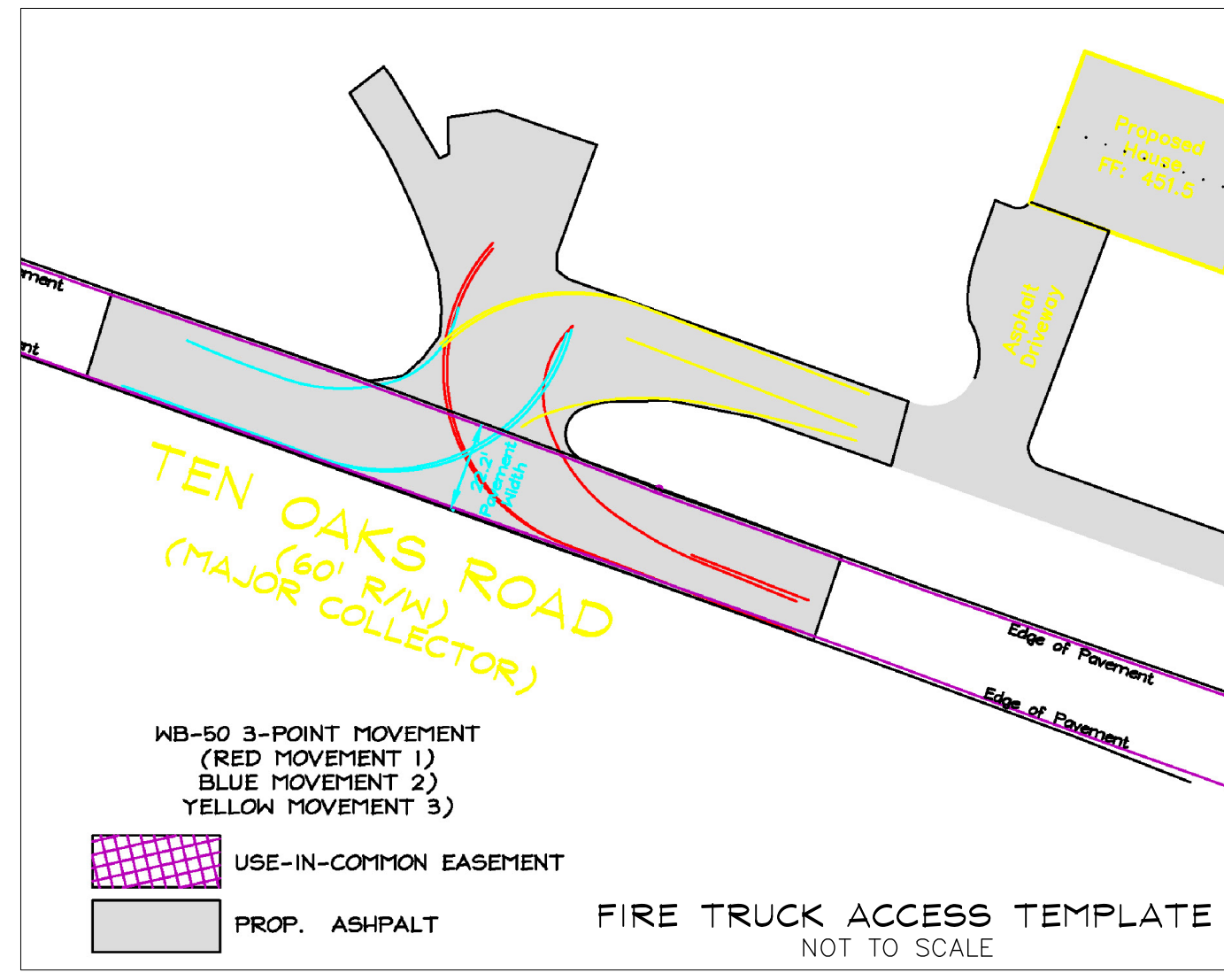
Vertical sidebar containing project information: DATE 4/20/24, PROJECT 21-0702, REVISION BY DATE, DISTRICT 5TH ELECT., PARCEL 160, MAP 34, LEWIS PROPERTY SUBDIVISION, SEDIMENT CONTROL NOTES & DETAILS, JNM ENGINEERING, LLC, CIVIL ENGINEERING, SURVEYING, LAND PLANNING, ENVIRONMENTAL, AGRICULTURE, LEED PROFESSIONALS, 1105 LEAFY HOLLON CIRCLE, MOUNT AIRY, MD 21771, (301) 514-2808, JNMENGINEERINGLLC.COM, SCALE 1"=40', APPROVAL JWW

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

Maintenance of areas receiving disconnected runoff is generally no different than that required for other lawn or landscaped areas. The Owner shall ensure the areas receiving runoff are protected from future compaction or development of impervious area. In commercial areas, foot traffic should be discouraged as well.



- NOTES:
1. DRIVEWAY MUST BE PAVED FROM EDGE OF PUBLIC ROAD TO RIGHT OF WAY LINE USING STANDARD PAVING SECTION P-1 OR ALTERNATE SECTION EQUAL TO OR BETTER THAN P-1, AS APPROVED BY DPW.
 2. DRAINAGE CULVERT SHALL BE SIZED FOR A 10 YEAR FREQUENCY STORM AND THE MINIMUM SIZE SHALL BE 12" DIA ROUND OR 14"x8" ARCH PIPE IF LARGER PIPE IS REQUIRED. DITCH INVERT SHALL BE LOWERED TO PROVIDE MIN DITCH GRADIENT OF 0.5% AND CLEARANCE SHOWN.
 3. SWALE FLOW MAY BE PROVIDED OVER DRIVEWAY LOCATED AT OR NEAR THE CREST OF VERTICAL CURVES ON THE PUBLIC ROAD WHERE QUANTITY OF FLOW IS SMALL, AS APPROVED BY DPW.
 4. TIE-IN GRADE OF PRIVATE DRIVEWAY SHALL NOT EXCEED 15%.
 5. SEE TYPICAL SECTIONS FOR LAYOUT AND GRADING OF DITCH AND PIPE CULVERT.
 6. USE OF THE ALTERNATIVE ORNAMENTAL HEADWALL SHALL REQUIRE APPROVAL BY THE DPW DIRECTOR. HOWARD COUNTY WILL NOT MAINTAIN ORNAMENTAL HEADWALLS. AN HSA AGREEMENT IS REQUIRED.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Highways
 Date: 7/30/2024

APPROVED: DEPARTMENT OF PLANNING & ZONING
 Chief, Development Engineering Division
 Date: 7/30/2024

APPROVED: DEPARTMENT OF PLANNING & ZONING
 Chief, Division of Land Development
 Date: 7/30/2024

ENGINEERS 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. 46791, EXPIRATION 6/01/2025.

James W. Wither, P.E.
 DATE: 4/20/24

LEWIS PROPERTY SUBDIVISION
 A SUBDIVISION OF 6005 TEN OAKS ROAD, GRID 11
 PARCEL 160, TAX MAP 34, ELECT. DISTRICT 5
 ZONING RC, CURRENT DEED 16877/327, 97.01 ACRES

SITE NOTES AND ACCESS IMPROVEMENTS PLAN

DATE	4/20/24
PROJECT	21-0702
ILLUSTRATION	JWW
ENGINEERING	NA
APPROVAL	JWW
SCALE	1" = 40'
REVISION	
DATE	
BY	

PARCEL 160, MAP 34, 5TH ELECT. DISTRICT
LEWIS PROPERTY SUBDIVISION
 CLARKSVILLE, HOWARD COUNTY, MARYLAND
 SITE NOTES AND ACCESS IMPROVEMENTS PLAN

JNM ENGINEERING, LLC
 CIVIL ENGINEERING, SURVEYING, LAND PLANNING,
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 1105 LEAFY HOLLOW CIRCLE, MOUNT AIRY, MD 21771
 (301) 514-2808, JNTEENGINEERINGLLC.COM

3 OF 3