

LEGEND

- SILT FENCE — SF —
- LIMIT OF DISTURBANCE — LOD —
- EXISTING WELL (Symbol)
- EXISTING BUILDING (Symbol)
- PROPOSED BUILDING (Symbol)
- EX. TREELINE (Symbol)
- SOIL LINE (Symbol)
- STABILIZED CONSTRUCTION ENTRANCE (Symbol)
- EX. GRAVEL AREA (Symbol)
- PROP. GRAVEL AREA (Symbol)
- PROPERTY LINE (Symbol)
- 1930 HOUSE SITE OF ORIGINAL (Symbol)
- EX. SEPTIC AREA (Symbol)
- EX. TREE (Symbol)
- WELL BUFFER (Symbol)
- SWM DISCONNECTION (Symbol)
- GRASS SHOULDER (Symbol)
- EX. EDGE OF PAVEMENT (Symbol)
- 5' CONC. SIDEWALK (Symbol)

SOIL LEGEND

MAP SYMBOL	MAPPING UNIT	HYDROLOGIC SOIL GROUP	HYDRIC COMPONENTS	Kw	SLOPE
GgA	GLENELG LOAM	B	NO	0.24	0-3%
GgB	GLENELG LOAM	B	NO	0.24	3-8%

NOTE: SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.

SWM TREATMENT SUMMARY

PRACTICE	DRAINAGE AREA	IMPERVIOUS AREA TREATED	METHODOLOGY	VOLUME (ESDv) REQUIRED	VOLUME (ESDv) PROVIDED
N-1 ROOFTOP DISCONNECTION	2800 S.F.	2800 S.F.	ESDv=Pe * Rv * A/12 where Pe=1.0" & Rv=0.95	222 c.f.	222 c.f.
N-2 NON-ROOFTOP DISCONNECTION	561 S.F.	561 S.F.	ESDv=Pe * Rv * A/12 where Pe=1.0" & Rv=0.95	44 c.f.	44 c.f.
TOTAL ESDv PROVIDED				266 c.f.	266 c.f.
ESDv REQUIRED				266 c.f.	

ADDRESS CHART

PARCEL #	STREET ADDRESS
196	15947, FREDERICK ROAD, LISBON, MD. 21765

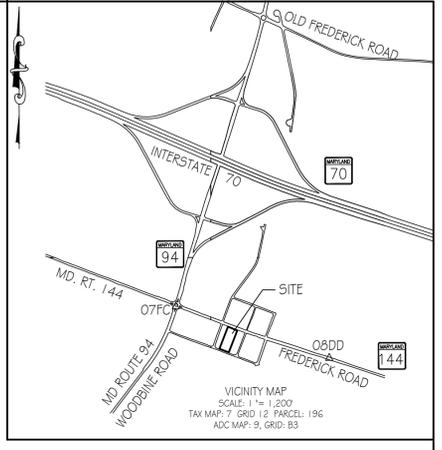
PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	PARCEL No.
VILLAGE OF LISBON	N/A	P.196

PLAT # BK. 20 GRID # 12 ZONING B-2 TAX MAP # 07 ELECT. DISTRICT 04 CENSUS TRACT 604001
WATER CODE - N/A SEWER CODE - N/A

SITE ANALYSIS DATA SHEET

EXISTING SITE USE - SERVICE AGENCY-REAL ESTATES OFFICE	ACRES
WETLANDS BUFFER	0.00
FLOODPLAIN	0.00
FORESTS	0.00
STEEP SLOPES (15-24%)	0.00
STEEP SLOPES (25% OR GREATER)	0.00
TOTAL PROJECT AREA	1.00
LOD AREA	0.17
GREEN OPEN SPACE AREA	0.00
EX. IMPERVIOUS AREA	0.31
PROP. IMPERVIOUS AREA	0.07
HIGHLY ERODIBLE SOILS IN PROJECT AREA	0.00
ZONING	B-2
PARKING REQUIRED	2.0
PARKING PROVIDED	2.0
DPZ FILE REFERENCES	ECF-22-068
EX. BUILDING FLOOR AREA	1743 SF
PROPOSED POLE BARN FLOOR AREA	2800 SF

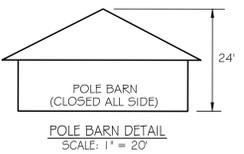
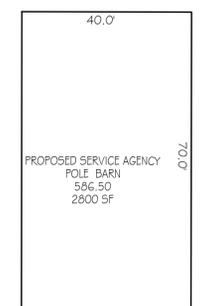
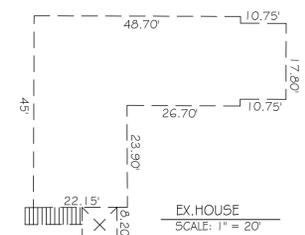
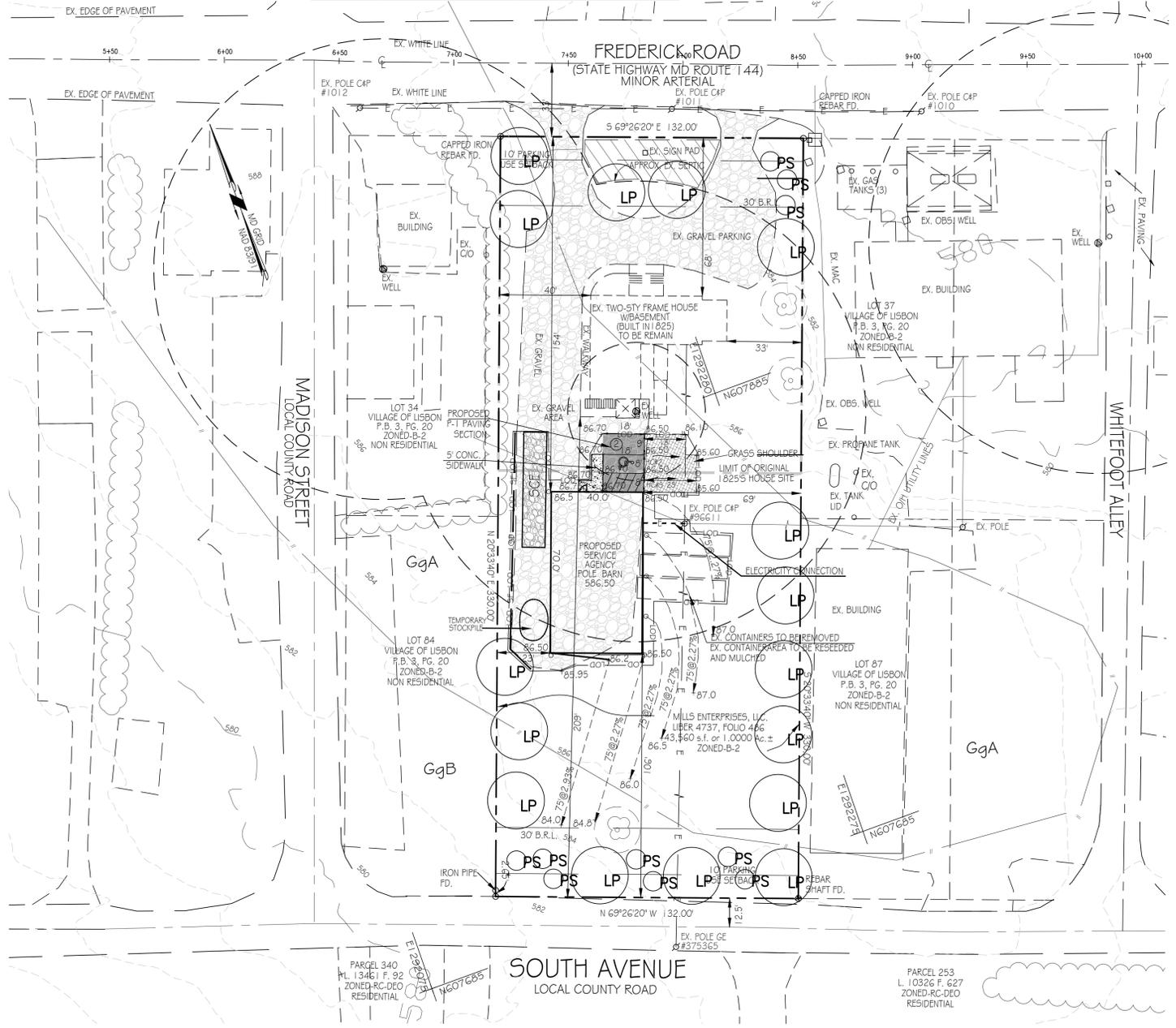


STORMWATER MANAGEMENT PRACTICE CHART

Parcel Number	ADDRESS	NON ROOFTOP DISCONNECTION	ROOFTOP DISCONNECTION
196	15947 FREDERICK ROAD	Y	Y

GENERAL NOTES:

- 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 HRS. PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM HOWARD COUNTY GIS DATA, SUPPLEMENTED BY FIELD-RUN ELEVATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2' VERTICAL DATUM IS NAVD 88.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLAN COORDINATE SYSTEM, AS PROJECTED BY HOWARD COUNTY SURVEY CONTROL STATIONS:
08DD N 607452.050 E 1293998.160
07FC N 608315.535 E 1291525.340
- WATER IS PRIVATE.
- SEWER IS PRIVATE.
- STORMWATER MANAGEMENT FOR THIS LOT WILL BE PROVIDED VIA A NON ROOFTOP DISCONNECTION (N-2) AND ROOFTOP DISCONNECTION (N-1) TO BE CONSTRUCTED BY THE DEVELOPER UNDER PLAN SDP-23-029.
- THERE IS NO FLOODPLAIN ON SITE.
- THERE IS NO WETLANDS ON THIS SITE.
- NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- PROPERTY OWNER: NIVA JACOBS PROPERTIES LLC.
ADDRESS: 15947 FREDERICK ROAD, WOODBINE, MD 21797 PH. (443) 277-9780
- PROPERTY INFORMATION: TAX MAP 7, GRID 12, PARCEL 196
TAX ACCOUNT # 04-328310
DEED REFERENCE L 21110 F. 243
TOTAL SITE AREA: 1.000 ACRES +/-
ZONE: B-2
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAS BEEN APPROVED.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE.
- A NOISE STUDY IS NOT REQUIRED FOR THE SUBJECT PROPERTY BECAUSE THIS IS A NON RESIDENTIAL USE.
- THE SUBJECT PROPERTY IS LOCATED WITHIN HISTORIC SITE AND KNOWN AS THE MISSES WARFIELD HOUSE AS PER HD.CO. 233
- ANY CHANGE TO THE PROPERTY THAT WOULD GENERATE WASTE WATER FLOW WOULD FIRST REQUIRE A PERCOLATION CERTIFICATION PLAN APPROVED BY THE HEALTH DEPARTMENT.
- ANY DISTURBED AREA THAT DOES NOT DRAIN TO A SEDIMENT CONTROL MEASURES SHALL BE STABILIZED SAME-DAY.
- THE PROPERTY IS LISTED ON THE HISTORIC SITES INVENTORY AS HO-233, THE MISSES WARFIELD HOUSE. THE BUILDING IS ALSO LOCATED WITHIN HO-495, THE LISBON SURVEY DISTRICT. HISTORIC PRESERVATION COMMISSION (HPC) REVIEWED THIS PROJECT FOR ADVISORY COMMENTS ON APRIL 6, 2023.
- HISTORIC PRESERVATION COMMISSION (HPC) RECOMMENDED THE BARN BE PAINTED MUTED COLORS, SO AS TO NOT CONFLICT WITH THE HISTORIC HOUSE.
- THE PROPOSED BUILDING IS A PERMITTED USE, PER SECTION 119.0.B.13 OF THE ZONING REGULATIONS. ALL STORAGE SUPPLIES AND MATERIALS MUST BE STORED INSIDE THE BUILDING AT ALL TIMES.
- THERE WILL NOT BE PERMANENT EMPLOYEES ON THE PREMISES OF THE PROPOSED STORAGE BUILDING. A TOTAL OF 2 PARKING SPACES SHALL SATISFY THE PARKING FOR THE PROPOSED BUILDING. THE DEVELOPER SHOULD PROVIDE ONE HANDICAP AND ONE REGULAR PARKING.
- ANY CHANGE TO THE PROPERTY THAT WOULD GENERATE WASTE WATER FLOW WOULD FIRST REQUIRE A PERCOLATION CERTIFICATION PLAN APPROVED BY THE HEALTH DEPARTMENT.
- PER THE HOWARD COUNTY FOREST CONSERVATION WORKSHEET, NO MITIGATION IS REQUIRED. THIS PROJECT USES THE LOD AS THE NET TRACT AREA. ALL FUTURE DEVELOPMENT AREA MUST BE CUMULATIVELY TRACKED ON THIS PLAN AND ONCE OVERALL DEVELOPMENT OF THIS SITE REACHES 40,000 SQUARE FEET OR GREATER, FOREST CONSERVATION WILL NEED TO BE ADDRESSED FOR THE ENTIRE SITE.
- THE LANDSCAPE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY IN THE AMOUNT OF \$6,300 FOR THE 16 SHADE TREES AND 10 EVERGREEN TREES HAS BEEN POSTED WITH THE GRADING PERMIT.
- EROSION FROM THE EXISTING GRAVEL PAVEMENT OR ANY EVIDENCE THAT STONES FROM THE EXISTING GRAVEL SURFACE ARE SPREAD BEYOND THE EXISTING GRAVEL DRIVEWAY WILL BE MAINTAINED AND RETURNED TO ORIGINAL CONDITION.
- THE DESIGN MANUAL WAIVER FROM DESIGN MANUAL, VOLUME III, SECTION 2.2.E.6 WAS APPROVED ON NOVEMBER 1, 2023. THIS ALLOWS TO RETAIN THE COMPACTED GRAVEL SURFACE FOR PARKING AND DRIVEWAY.



NOTE: THE PROPOSED POLE BARN WILL BE USED FOR STORAGE PURPOSE ONLY.

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by: CHAD Edmondson 706376466-41409	1/24/2024
DocuSigned by: Lynda Eversberg 12008688890426	1/24/2024

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR DATE

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

DocuSigned by:
Alexander Bratovic
61648208408441

HOWARD SOIL CONSERVATION DISTRICT DATE

DESIGN CERTIFICATE:	OWNER'S/DEVELOPER'S CERTIFICATE:
<p>I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH 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 COUNTY SOIL CONSERVATION DISTRICT.</p> <p>DocuSigned by: Ronald E. Thompson A786C2083A98490</p> <p>DESIGNER'S SIGNATURE DATE 12/20/2023</p> <p>PRINTED NAME (RONALD E. THOMPSON, P.E.) MD REGISTRATION NO. P.R., R.L.S., OR R.L.A. 18417</p>	<p>I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED SEDIMENT AND EROSION 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 ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND/OR MDE.</p> <p>DocuSigned by: JAMIE JACOBS A786C2083A98490</p> <p>OWNER'S/DEVELOPER'S SIGNATURE DATE 12/20/2023</p> <p>PRINTED NAME & TITLE (NIVA JACOBS PROPERTIES LLC)</p>

OWNER:
NIVA JACOBS PROPERTIES LLC
1319 MILITARY CUTOFF ROAD
WILMINGTON, NC 28405
443-277-9780

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. 18417, Expiration Date: 9-18-25.

SHEET INDEX

NO.	TITLE
1	GRADING, STORMWATER MANAGEMENT, SEDIMENT AND EROSION CONTROL
2	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
3	LANDSCAPE PLAN

DATE	REVISIONS

DocuSigned by:
Ronald E. Thompson
A786C2083A98490

12/20/2023

SITE DEVELOPMENT PLAN
GRADING, STORMWATER MANAGEMENT, SEDIMENT AND EROSION CONTROL PLAN
NIVA JACOBS PROPERTIES LLC
15947 FREDERICK ROAD
LIBER 21110 AT FOLIO 243
VILLAGE OF LISBON
PLAT BOOK 3 AT PAGE 20

TAX MAP: 7 GRID NO: 12 PARCEL NO: 196 ELECTION DISTRICT: FOURTH HOWARD COUNTY, MARYLAND EX. ZONING: B-2 SCALE: 1"=30' DATE: NOVEMBER 2023 SHEET 1 OF 3

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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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.

- Criteria: A. Soil Preparation 1. Temporary Stabilization a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction 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.

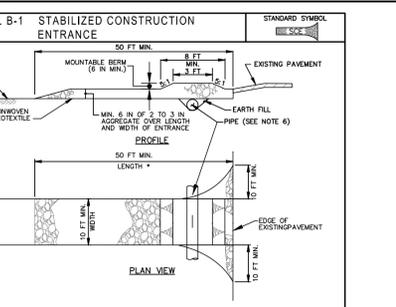
- Criteria: A. Seeding 1. Specifications a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory...

- 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 L.O.D. and protected area marked clearly in the field...

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.

- 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...

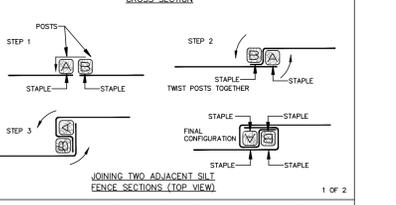
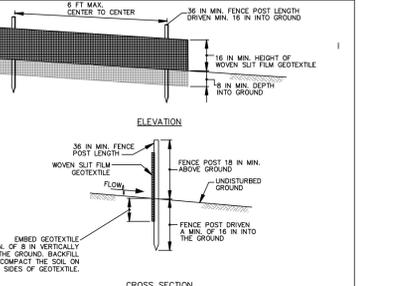


CONSTRUCTION SPECIFICATIONS 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SOLE WITH A MINIMUM LENGTH OF 50 FEET (150 FEET FOR SINGLE RESURF LOT) USE MINIMUM WIDTH OF 10 FEET. PLACE SOLE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RAADIUS.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION

TEMPORARY STABILIZATION SPECIFICATIONS TABLE

Table with 5 columns: No., Species, Application Rate (lb/oc), Seeding Dates, Seeding Depths. Rows include Annual Ryegrass and Total Mixture.

PERMANENT STABILIZATION SPECIFICATIONS TABLE

Table with 5 columns: No., Species, Application Rate (lb/oc), Seeding Dates, Seeding Depths. Rows include Kentucky Bluegrass and Total Mixture.

- 2. Permanent Stabilization a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are: i. Soil pH between 6.0 and 7.0.

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

- 6) Site Analysis: Total Area of Site: 1.00 Acres. Area Disturbed: 0.15 Acres. Area to be roofed or paved: 0.07 Acres. Area to be vegetatively stabilized: 0.07 Acres.

- 1) Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a minimum to high level of maintenance.

DUST CONTROL

DUST CONTROL METHOD FOR THIS SITE TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES: CALCIUM CHLORIDE SHALL BE APPLIED TO EXPOSED SURFACES AT A RATE THAT WILL KEEP SURFACE MOIST UNTIL SOIL IS STABILIZED ACCORDING TO VEGETATIVE SPEC. FOR THIS SITE AND AREAS TO BE PAVED ARE COMPLETED.

STANDARD STABILIZATION NOTE

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

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.

- Criteria: 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.

- 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 L.O.D. and protected area marked clearly in the field.

- 1) Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a minimum to high level of maintenance.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN ALL REQUIRED GRADING, MDE PERMITS, APPROVALS AND LICENSES FROM APPROPRIATE AGENCIES. (1 WEEK)

Table with 2 columns: Position and Date. Rows include APPROVED, CHIEF, DEVELOPMENT ENGINEERING DIVISION, CHIEF, DIVISION OF LAND DEVELOPMENT, and DIRECTOR.

Table with 2 columns: Position and Date. Rows include THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT, DESIGNER'S SIGNATURE, and DATE.

Table with 2 columns: Position and Date. Rows include DESIGN CERTIFICATE, OWNER'S/DEVELOPER'S CERTIFICATE, DESIGNER'S SIGNATURE, and DATE.

Table with 2 columns: Position and Date. Rows include JAMIE JACOBS, OWNER'S/DEVELOPER'S SIGNATURE, and DATE.

Table with 2 columns: Position and Date. Rows include PROFESSIONAL CERTIFICATION, PROFESSIONAL ENGINEER, and DATE.

SITE DEVELOPMENT PLAN SEDIMENT AND EROSION CONTROL NOTES & DETAILS NIVIA JACOBS PROPERTIES LLC 15947 FREDERICK ROAD LIBER 21110 AT FOLLO 243 PLAT BOOK 3 AT PAGE 20

