

GENERAL NOTES

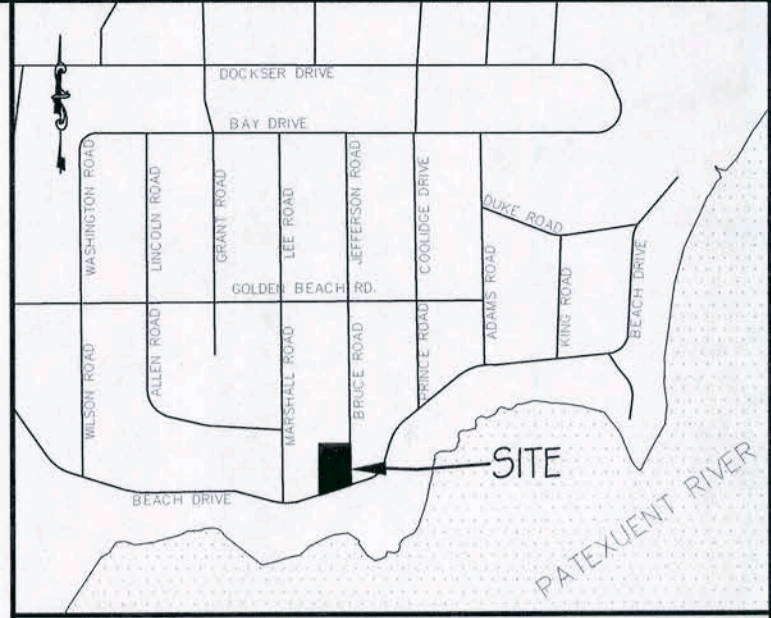
- House shall be minimum of 30' from well. Septic field shall be minimum of 10' from house, 25' from drainage swales, and 50' from well.
- Well site locations shown thus:
- Perc test locations shown thus:
- Sewerage disposal areas shown thus:
- Lot is to be served by an individual septic disposal system and well drilled to an approved, confined aquifer (existing).
- This plan was prepared without the benefit of a title report which may reveal additional conveyances, easements, rights-of-way, or building restriction lines not shown.
- Lot recorded at PB.3 P.11, 5/25/56.
- All construction to be done to the latest St. Mary's County Department Land Use and Growth Management Standards and Specifications in accordance with current county ordinances.
- Contractor is responsible for contacting Miss Utility at 1-800-257-7777 at least 48 hours prior to the start of any construction.
- There are no wells or sewage disposal areas within 100' of the proposed well except as shown.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and seven (7) days as to all other disturbed areas on the project site.
- This plan is not to be used to establish fence lines.
- Zoning: RNC (Residential Neighborhood Conservation) with LDA overlay zone.
- This property appears to be in Zone X as shown on Flood Insurance Rate Map Panel No.24037C0081F dated 11/19/14.
- Disturbed Area = 10,899 S.F.
Total Area = 15,000 S.F.
Forest Area Disturbed = 3,428 S.F.
- Topography shown hereon field run by Lorenzi, Dodds & Gunnill, Inc.
- This lot will be graded as to drain water away from the house a minimum of 6" within the first ten feet of the foundation.
- Engineer: Lorenzi, Dodds & Gunnill, Inc.
3475 Leonardtown Road, Suite 100
Waldorf, Maryland 20602
(301)645-2254 or 843-6255 c/o Tim Lessner
- Builder / Owner: Waldorf Lions Foundation, Inc.
c/o Bud Humbert
P.O. Box 531
Waldorf, Maryland 20604
(301) 643-2583

UTILITY INSTALLATION NOTE:

All trenches or holes created for utility installation shall be backfilled, compacted and stabilized at the end of each work day. Excavated trench material shall be placed on the high side of the trench or hole. No more trenches or holes shall be opened than can be stabilized the same day. If an area must be left unstabilized overnight, silt fence will be placed immediately downstream of all disturbed areas and installed as required or as shown on the plan.

SOILS TABLE				
SOIL MAP UNIT	SOIL DESCRIPTION	ERODIBILITY	HYDRIC	HSG
SaaA	Sassafras Sandy Loam, 0%-2% slopes	0.20	YES	B

7 Trees were cleared with project disturbance to be replaced 1:1 replacement and 15% of total area. See Critical Area Mitigation Plan - Sheet 4



VICINITY MAP SCALE: 1" = 1,000'
St. Mary's County Department of Land Use and Growth Management
Tax Map 5A, Grid 2, Parcel 56
Tax Account: 05-019257
Zoning: RNC (Residential Neighborhood Conservation)
Critical Area Zoning: LDA (Limited Development Area)
Address: 29725 Bruce Road, Mechanicsville, MD 20659
ADC Map: 2 D9

ST. MARY'S COUNTY HEALTH DEPARTMENT
H.D. FILE # _____
SANITARIAN _____ DATE _____
DIRECTOR _____ DATE _____

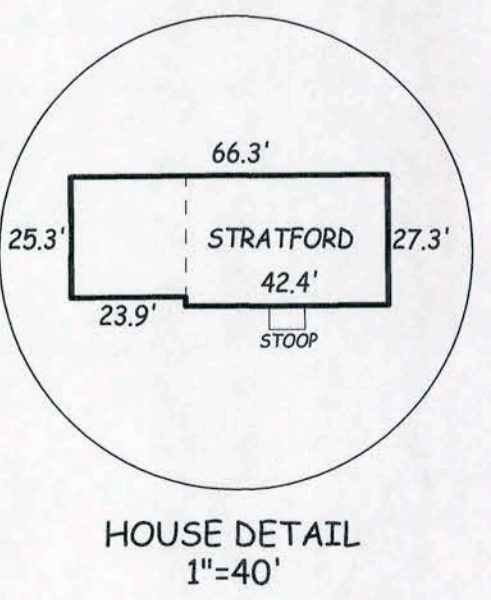
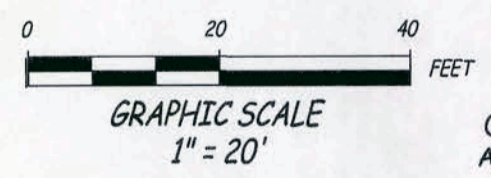
AS OF JANUARY 18, 2007, ALL SINGLE FAMILY RESIDENTIAL DWELLING UNITS SHALL HAVE FIRE SPRINKLER SYSTEMS.

LEGEND

- Property Boundary
- Adj. Property Boundary
- Building Restriction Line
- Edge of Pavement
- Existing Treeline
- Mapped Soils Boundary
- Forest Conservation Easement
- Silt Fence
- Existing Trees
- Limit of Disturbance
- Mountable Berm
- Existing Contours
- Proposed Contours
- Stockpile Area
- Stabilized Construction Entrance

HEALTH DEPARTMENT NOTES

- Comprehensive Water and Sewer Statement: This lot is in compliance with the St. Mary's County Comprehensive Water and Sewer Plan.
- All utilities shall be located outside the Health Department approved sewage easement and no other easement may hinder access to it.
- This site plan is designed for 400 GPD flow for a 4 bedroom house.
- The balance of the sewage easement as shown hereon shall remain undisturbed for future reserve site "R-1". Lot of record as of 5/26/56
- This health department approval certifies that the lot shown hereon is in consonance with pertinent laws and regulations as of the approval date. However, this approval is subject to change in such laws and regulations. Changes in topography or site designation may void this approval. The designated perc area is the only perc area approved by the St. Mary's County Health Department for Sewage disposal purposes. The approved lot includes an area of at least 4,036 s.f. (1 and 1) for sewage disposal purposes as required by current Maryland State Health Department law. Improvements of any other nature, including but not limited to the installation of other utilities in the area may render this lot undevelopable. To determine the exact area of the lot approved for sewage disposal purposes or to establish a different area for such purposes, you MUST contact the St. Mary's County Health Department, Office of Environmental Health.
- This lot shown hereon is to be served by an on-site sewage disposal system (O.S.D.S.). This lot is required to utilize the best available technology (BAT) for removal of nitrogen. This O.S.D.S. shall utilize a technology that is approved by the Maryland Department of the Environment.



OWNER/DEVELOPER CERTIFICATION
Any clearing, grading, construction or development, or all of these, will be done pursuant to this plan and that all responsible personnel involved in the construction project will have a certificate of training at a Maryland Dept. of Environment approved training program before beginning the project.

Bud Humbert (301) 643-2583 Date _____

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. 13310, expiration date: 01-30-23.
James C. Lorenzi, P.E. Date _____



THE CONTRACTOR SHALL NOTIFY MDE, ENFORCEMENT DIVISION, AT LEAST 48 HOURS PRIOR TO COMMENCING CLEARING OR GRADING AT: 410-537-3510 OR MDE, SEDIMENT AND STORMWATER ADMINISTRATION, 1800 WASHINGTON BLVD., BALTIMORE, MD. 21230-1708

DISTURBANCE NOTE
Disturbance (i.e. grading, tree stump removal, extensive traffic, etc.) of any portion of the sewage reserve area is not permitted and may compromise the construction of the reserve septic systems. The building permission slip issued by the health department can be voided for disturbance of the type.

Received
NOV 10 2022

St. Mary's County
Land Use & Growth Management

Permit # 22-2511

SEWER CATEGORY: NPS (NO PLANNED SERVICE)
WATER CATEGORY: NPS (NO PLANNED SERVICE)
LUGM#22- TAX MAP 5A, GRID 2, PARCEL 56

Waldorf Lions Foundation, Inc
Golden Beach - Section 2 - Lot 681
L. 6020 F. 280
5TH ELECTION DISTRICT ~ ST. MARY'S COUNTY, MARYLAND

SITE, SWM, SEWAGE EASEMENT PLAT, SEDIMENT AND EROSION CONTROL PLAN		SCALE 1" = 20'
DRAWN: NOVEMBER 2022 NJ	CONTRACT REFERENCE 229020	1
LORENZI, DODDS, AND GUNNILL, INC. 3475 LEONARDTOWN ROAD, SUITE 100 WALDORF, MARYLAND 20602 PH: (301) 645-2254 or (301) 843-6255		

OF 4

STORMWATER MANAGEMENT NOTES

SWM NOTIFICATION REQUIREMENTS

THE DEVELOPER OR HIS REPRESENTATIVE SHALL ASSURE THAT INSPECTIONS ARE MADE AND APPROVALS ARE GIVEN AT

THE FOLLOWING SPECIFIED STAGES OF CONSTRUCTION:

A. INFILTRATION FACILITIES, SUCH AS, BUT NOT LIMITED TO, INFILTRATION BASINS, INFILTRATION TRENCHES AND DRYWELLS:

1. UPON COMPLETION OF PRE-EXCAVATION AND CONSTRUCTION OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES;

2. UPON COMPLETION OF EXCAVATION;

3. DURING THE PLACEMENT OF FILTER FABRIC, OBSERVATION WELL AND BASE AGGREGATE MATERIAL;

4. DURING THE CONSTRUCTION OF CONCRETE STRUCTURES;

5. DURING THE CONSTRUCTION OF CUT-OFF TRENCH AND EMBANKMENT;

6. DURING THE PLACEMENT OF SURFACE LAYER;

7. DURING THE FINAL EXCAVATION; AND

8. UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT VEGETATIVE STABILIZATION.

B. FLOW ATTENUATION FACILITIES, SUCH AS, BUT NOT LIMITED TO, OPEN VEGETATED SWALES, DITCHES AND OPEN CHANNELS:

1. UPON COMPLETION OF PRE-EXCAVATION AND CONSTRUCTION OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES;

2. DURING PLACEMENT AND BACKFILL OF UNDERDRAIN SYSTEMS FOR DRYWELLS;

3. DURING THE CONSTRUCTION OF CHECK DAMS, DIAPHRAGMS, OR WEIRS; AND

4. UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT VEGETATIVE STABILIZATION.

C. N/A

D. WETLANDS - AT THE STAGES SPECIFIC FOR POND CONSTRUCTION IN 10.2.C. OF THIS SECTION, DURING AND AFTER WETLAND RESERVOIR AREA PLANTING, AND DURING THE SECOND GROWING SEASON TO VERIFY A VEGETATION SURVIVAL OF AT LEAST FIFTY (50) PERCENT.

E. FILTERING SYSTEMS:

1. DURING EXCAVATION TO SUBGRADE;

2. DURING PLACEMENT AND BACKFILL OF UNDERDRAIN SYSTEMS;

3. DURING PLACEMENT OF GEOTEXTILES AND ALL FILTER MEDIA;

4. DURING CONSTRUCTION OF APPURTENANT CONVEYANCE SYSTEMS SUCH AS FLOW DIVERSION STRUCTURES,

PREFILTERS AND FILTERS, INLETS, OUTLETS, ORIFICES, AND FLOW DISTRIBUTION STRUCTURES; AND

5. UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.

F. N/A

G. N/A

SOIL AMENDMENT NOTE:

SWM DISCONNECT AREAS IN HSG C SOILS MAY REQUIRE SOIL AMENDMENTS. SCARIFY THE SURFACE OR ROTOTILL THE SOIL OF THE DISCONNECT PATH OR FILTER STRIP TO A DEPTH OF 4-6" AND PROVIDE GROUND COVER TO ENSURE PERMEABILITY.

SWM INSPECTION AND MAINTENANCE SCHEDULE

** RAIN GARDENS**

INSPECTION:

REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION:

* DURING EXCAVATION TO SUBGRADE AND PLACEMENT OF PLANTING SOIL

* UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.

MAINTENANCE CRITERIA:

RAIN GARDEN MAINTENANCE IS GENERALLY NO DIFFERENT THAT THAT REQUIRED OF OTHER LANDSCAPED AREAS.

THE TOP FEW INCHES OF THE PLANTING SOIL SHOULD BE REMOVED AND REPLACED WHEN WATER PONDS FOR MORE THAN 48 HOURS. SILTS AND SEDIMENT SHOULD BE REMOVED FROM THE SURFACE BED AS NEEDED.

WHERE PRACTICES ARE USED TO TREAT AREAS WITH HIGHER CONCENTRATIONS OF HEAVY METALS, MULCH SHOULD BE REPLACED ANNUALLY. OTHERWISE, THE TOP TWO TO THREE INCHES SHOULD BE REPLACED AS NECESSARY.

OCCASIONAL PRUNING AND REPLACEMENT OF DEAD VEGETATION IS NECESSARY. IF SPECIFIC PLANTS ARE NOT SURVIVING, MORE APPROPRIATE SPECIES SHOULD BE USED. WATERING MAY BE REQUIRED DURING PROLONGED DRY PERIODS.

CONSTRUCTION CRITERIA:

EROSION AND SEDIMENT CONTROL:

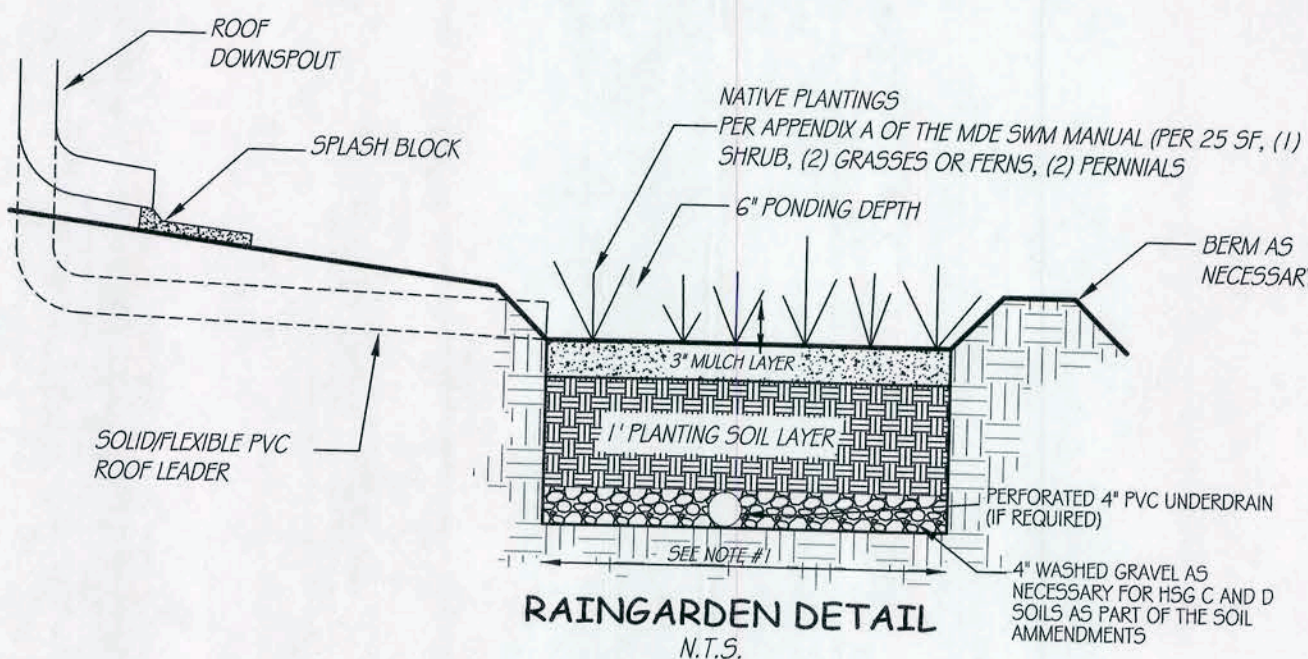
RAIN GARDENS SHALL NOT BE CONSTRUCTED UNTIL THE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY STABILIZED.

PLANTING SOIL:

PLANTING SOIL SHOULD BE MIXED ON-SITE PRIOR TO INSTALLATION. IF POOR SOILS ARE ENCOUNTERED BENEATH THE RAIN GARDEN, A FOUR-INCH LAYER OF WASHED GRAVEL (1/8 TO 3/8") MAY BE USED BELOW THE PLANTING SOIL MIX.

LANDSCAPE INSTALLATION:

THE OPTIMUM PLANTING TIME IS DURING THE FALL. SPRING PLANTING IS ALSO ACCEPTABLE BUT MAY REQUIRE WATERING.



PLANTING RECOMMENDATIONS

RAINGARDEN # 1 (203 SF)
(9) SHRUBS, (18) GRASSES OR FERNS, (18) PERENNIALS

RAINGARDEN # 2 (119 SF)
(5) SHRUBS, (10) GRASSES OR FERNS, (10) PERENNIALS

RECOMMENDED SPECIES:

PERNS	GRASSES	PERENNIALS	SHRUBS
CINNAMON FERN (OSMUNDA CINNAMOMEA)	THREE-SQUARE BULLRUSH (SCIRPUS PUNGENS)	CARDINAL FLOWER (LOBELIA CARDINALIS)	HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
SENSITIVE FERN (ONOCLEA SENSIBILIS)	BENT SEDGE (CAREX STYLOFLORA)	GOLDEN ROD (SOLIDAGO AUSTRINA)	INKBERRY (ILEX GLABRA)
	SWITCHGRASS (Panicum VIRGATUM)	NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE)	SPICEBUSH (LINDERA BENZOIN)
	VIRGINIA WILD RYE (ELIMUS VIRGINICUS)	JOE-PYE WEED (EUPATORIUM FISTULOSUM)	BUTTONBUSH (CEPHALANTHUS OCCIDENTALIS)
		SWAMP ROSE (ROSA PALUSTRIS)	SWAMP AZALEA (RHODODENDRON VISCOSUM)

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 13310, EXPIRATION DATE: 1-30-23.

Jan [Signature]

SWM NON-ROOFTOP DISCONNECTION NOTES

CONSTRUCTION CRITERIA:

THE FOLLOWING SHOULD BE ADDRESSED DURING CONSTRUCTION OF PROJECTS WITH NON-ROOFTOP DISCONNECTIONS:

- EROSION AND SEDIMENT CONTROL: EROSION AND SEDIMENT CONTROL PRACTICES (E.G., SEDIMENT TRAPS) SHALL NOT BE LOCATED IN AREAS DESIGNATED FOR NON-ROOFTOP DISCONNECTIONS.
- SITE DISTURBANCE: TO MINIMIZE DISTURBANCE AND COMPACTION, CONSTRUCTION VEHICLES AND EQUIPMENT SHOULD AVOID AREAS RECEIVING DISCONNECTED RUNOFF. SHOULD AREAS RECEIVING DISCONNECTED RUNOFF BECOME COMPACTED, SCARIFYING THE SURFACE OR ROTOTILLING THE SOIL TO A DEPTH OF FOUR TO SIX INCHES SHALL BE PERFORMED TO ENSURE PERMEABILITY. ADDITIONALLY, AMENDMENTS MAY BE NEEDED FOR TIGHT, CLAYEY SOILS.

INSPECTION:

A FINAL INSPECTION SHALL BE CONDUCTED BEFORE USE AND OCCUPANCY APPROVAL TO ENSURE THAT ADEQUATE TREATMENT AREAS AND PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

MAINTENANCE CRITERIA:

MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION (E.G., BY PLANTING TREES OR SHRUBS ALONG THE PERIMETER). IN COMMERCIAL AREAS, HIGH FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

SWM ROOFTOP DISCONNECTION NOTES

CONSTRUCTION CRITERIA:

THE FOLLOWING SHOULD BE ADDRESSED DURING CONSTRUCTION OF PROJECTS WITH NON-ROOFTOP DISCONNECTIONS:

- EROSION AND SEDIMENT CONTROL: EROSION AND SEDIMENT CONTROL PRACTICES (E.G., SEDIMENT TRAPS) SHALL NOT BE LOCATED IN VEGETATED AREAS RECEIVING DISCONNECTED RUNOFF.
- SITE DISTURBANCE: TO MINIMIZE DISTURBANCE AND COMPACTION, CONSTRUCTION VEHICLES AND EQUIPMENT SHOULD AVOID AREAS RECEIVING DISCONNECTED RUNOFF. SHOULD AREAS RECEIVING DISCONNECTED RUNOFF BECOME COMPACTED, SCARIFYING THE SURFACE OR ROTOTILLING THE SOIL TO A DEPTH OF FOUR TO SIX INCHES SHALL BE PERFORMED TO ENSURE PERMEABILITY. ADDITIONALLY, AMENDMENTS MAY BE NEEDED FOR TIGHT, CLAYEY SOILS.
- DOWNSPOUTS MUST BE AT LEAST 10' AWAY FROM THE NEAREST IMPERVIOUS SURFACE TO PREVENT RE-CONNECTION.
- THE LENGTH OF THE "DISCONNECTION" SHALL BE AT LEAST 75' OR COMPENSATED FOR USING TABLE 5.2.
- THE ENTIRE VEGETATIVE DISCONNECTION SHALL BE ON AN AVERAGE SLOPE OF 5% OR LESS OR USE A LEVEL SPREADER.
- THE CONTRIBUTING AREA OF ROOFTOP TO EACH DISCONNECT SHALL BE 500 S.F. OR LESS.

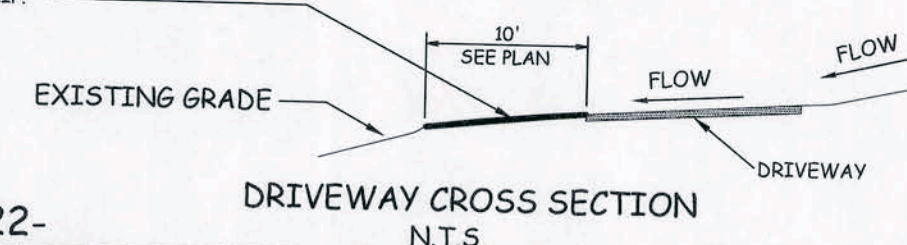
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DRIVEWAY TO SHEET FLOW TOWARDS 10' (OR WIDTH SPECIFIED) GRASS FILTER STRIP.



LUGM#22-

REVISIONS

Waldorf Lions Foundation, Inc
Golden Beach - Section 2 - Lot 681
L. 6020 F. 280

5TH ELECTION DISTRICT ~ ST. MARY'S COUNTY, MARYLAND

STORM WATER MANAGEMENT
DETAILS AND NOTES

SCALE: NONE

DRAWN: NOVEMBER, 2022 NJ CONTRACT REFERENCE 229020

LORENZI, DODDS, AND GUNNILL, INC.
3475 LEONARDTOWN ROAD, SUITE 100
WALDORF, MARYLAND 20602
PH: (301) 645-2254 or (301) 843-6255

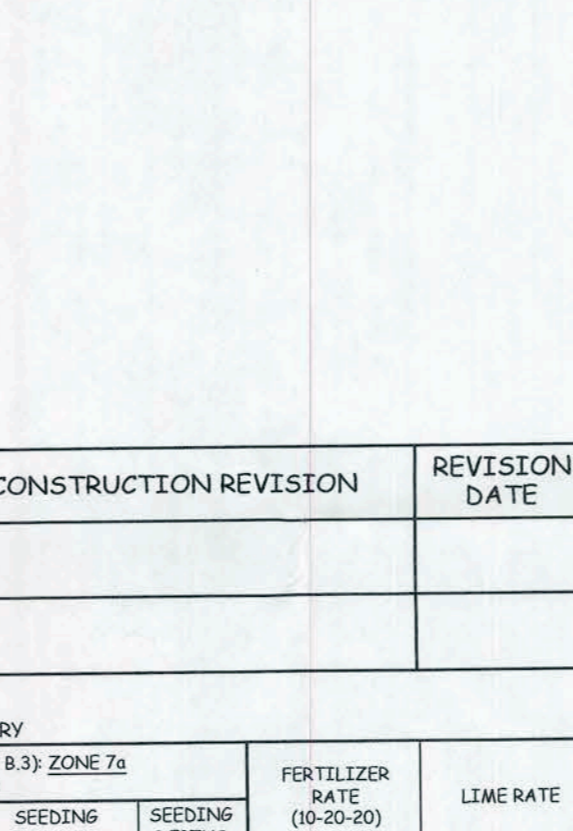
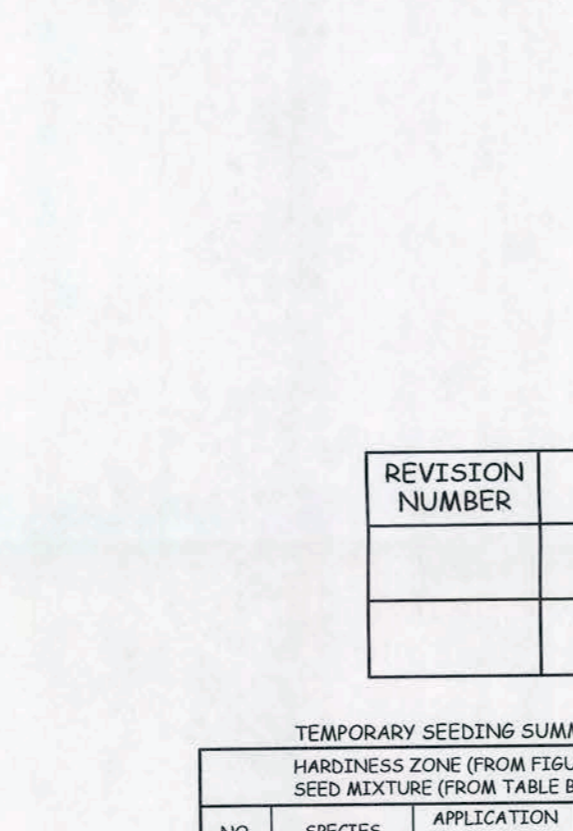
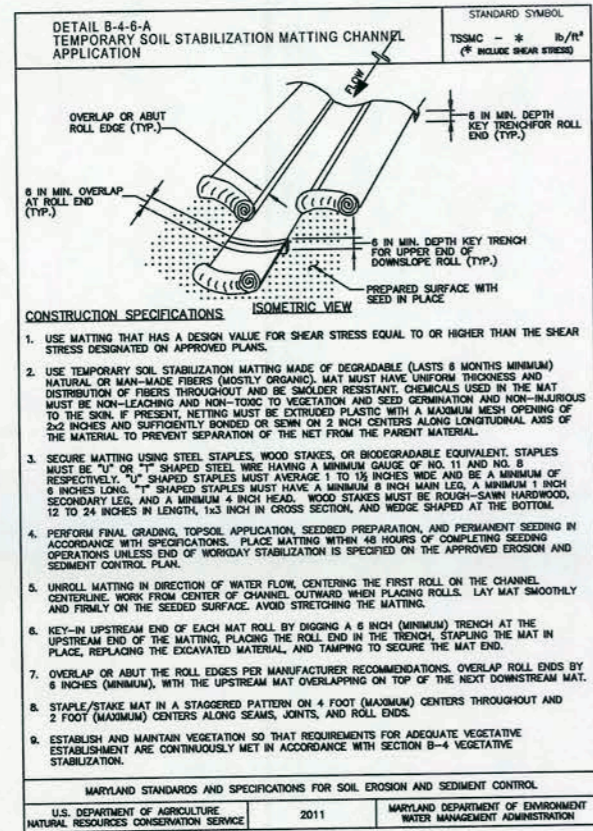
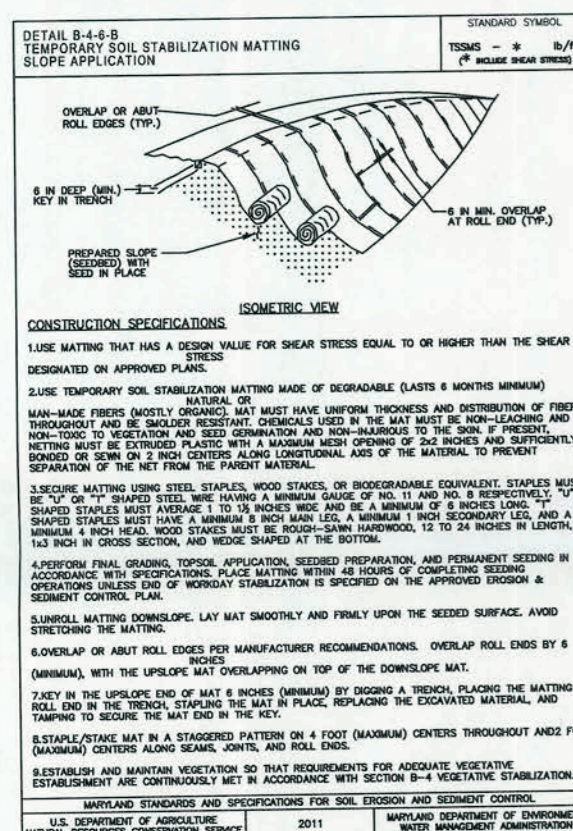
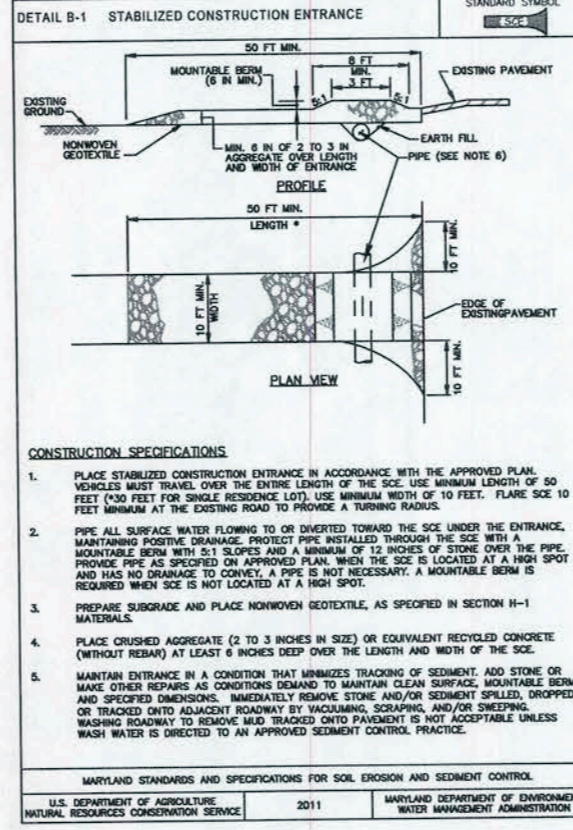
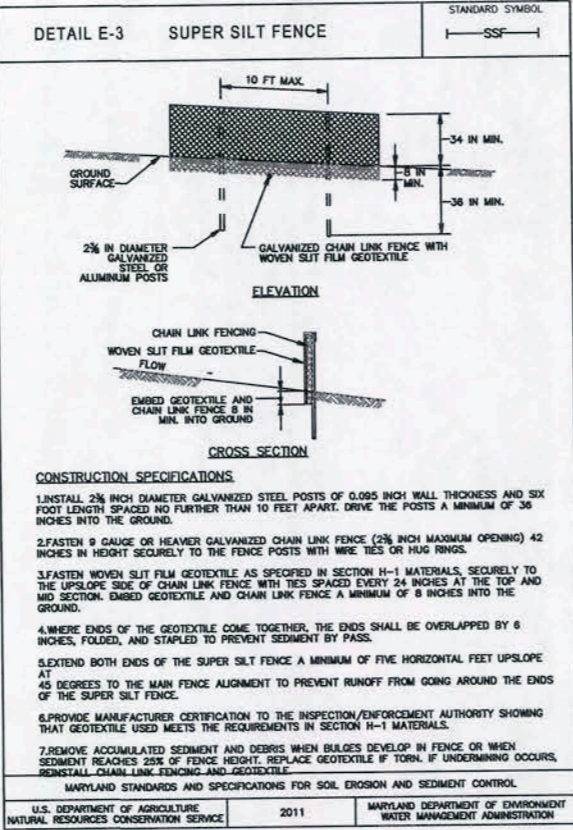
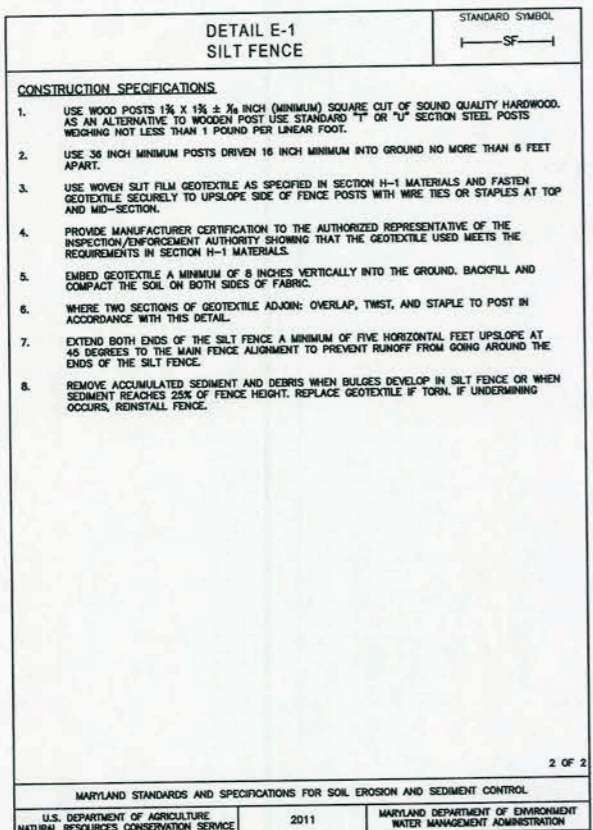
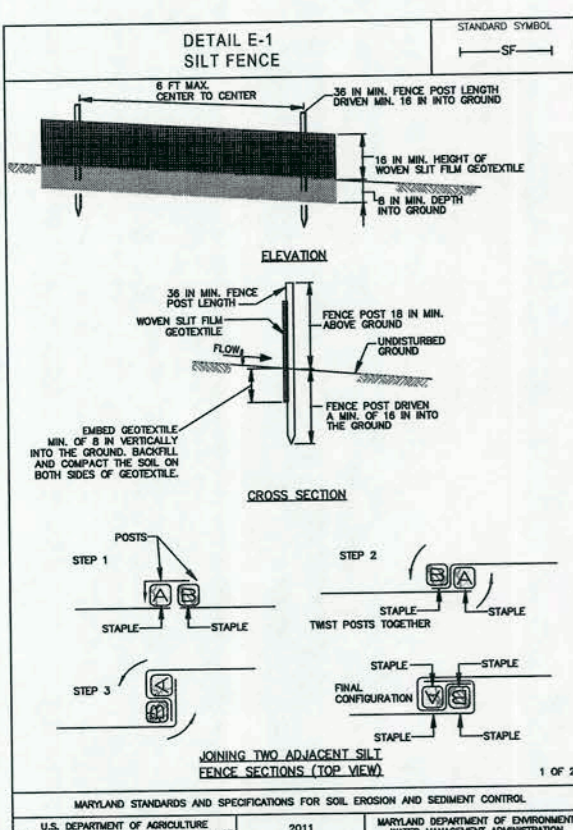
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Table B-4.1 Materials Specifications for Micro-Bioretenion, Rain Gardens & Landscape Infiltration-

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A-4	n/a	plantings are site-specific
Planting soil (2' to 4' deep)	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe: 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipe; not necessary underneath pipe. Perforated pipe shall be wrapped with 1/2-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Min. No. 3; F. = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350 R-09; vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS



REVISION NUMBER	CONSTRUCTION REVISION	REVISION DATE

TEMPORARY SEEDING SUMMARY

NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)	LIME RATE

PERMANENT SEEDING SUMMARY

NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)			LIME RATE
					N	P2O5	K2O	
	KENTUCKY BLUEGRASS	15	March 1 - May 15 Aug. 15 - Oct. 30	1/4" - 1/2"	45 LB/AC (1.0 LB/1000 SF)	90 LB/AC (2 LB/1000 SF)	90 LB/AC (2 LB/1000 SF)	2.5 TONS/AC (100 LB/1000 SF)

FOR HIGHLY ERODIBLE SOILS:
STABILIZE ALL DISTURBED AREAS WITH EROSION CONTROL MATTING.
PROVIDE 8" OF TOPSOIL COMPACTED TO 4" OVER DIST. AREAS TO FACILITATE GRASS GROWTH.
WATER SEED AND MULCH AS NECESSARY TO PROVIDE FOR ACCELERATED GROWTH

STOCKPILE NOTE

IF NO STOCKPILE IS SHOWN ON PLAN VIEW, THEN ALL EXCESS MATERIAL WILL BE IMMEDIATELY TAKEN TO A SITE WITH AN APPROVED AND ACTIVE SEDIMENT AND EROSION CONTROL PLAN. CONTRACTOR MUST INFORM SEDIMENT AND EROSION CONTROL INSPECTOR AS TO THE NAME AND PLAN REFERENCE NUMBER OF SAID PLAN.

FILL AND CLASSIFICATION

TYPE I FILL (95% COMPACTION): LOAD BEARING FILLS PROPOSED FOR SUPPORT OF BUILDINGS, WALLS, AND OTHER STRUCTURES, THE FUNCTION THERE TO WHICH WOULD BE ESPECIALLY IMPAIRED BY SETTLEMENT.

TYPE II FILL (90% COMPACTION): LOAD BEARING FILLS PROPOSED FOR SUPPORT OF ROADWAYS, PAVEMENTS, UTILITY LINES AND STRUCTURES WHICH WOULD BE ESPECIALLY IMPAIRED BY MODERATE SETTLEMENT.

TYPE III FILL: (COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND TO PREVENT AN EROSION.)

TOTAL SITE AREA = 0.34 AC.
TOTAL DISTURBED AREA = 0.250 AC.
VOL. OF EXCAVATION = 60 C.Y.
(ALL MATERIAL TO REMAIN ON SITE)
VOL. OF SPOIL = 0.0 C.Y.
VOL. OF BORROW = 0.0 C.Y.



CALL "MISS UTILITY" AT 1-800-257-7777
48 Hours Before Start of Construction

DESIGN CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR CURRENT REVISIONS THEREOF IN ACCORDANCE WITH THE ENVIRONMENTAL STORMWATER MANAGEMENT REGULATIONS. 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. 13310, EXPIRATION DATE: 1-30-23.

James C. Lorenzi, P.E. Date

SEQUENCE OF CONSTRUCTION

STANDARD STABILIZATION NOTE: FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, SEEDING FOR PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN A HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUND COVER TO BE CONSIDERED ADEQUATELY STABILIZED.

EACH EROSION AND SEDIMENT CONTROL PLAN SHOULD BE INDEPENDENT OF ANY OTHER APPROVED PLAN AND SHOULD "STAND ON ITS OWN" FROM BEGINNING TO THE END OF CONSTRUCTION

ANY OTHER APPROVED SEDIMENT AND EROSION CONTROL PLAN WITH A SEQUENCE AND/OR PRACTICES WHICH CONFLICT WITH THIS PLAN, WILL REQUIRE PLAN REVISIONS FOR ALL AFFECTED PLANS APPROVED BY THE ST. MARY'S SOIL CONSERVATION DISTRICT.

PHASED CLEARING AND GRADING SHOULD BE USED WHENEVER STEEP SLOPES AND/OR STREAMS OR OTHER SENSITIVE AREAS OR WHEN MASS GRADING IS PROPOSED.

EROSION AND SEDIMENT PRACTICES, AND SITE IN GENERAL, MUST BE INSPECTED WEEKLY AND AFTER EACH RAIN FALL EVENT, BY THE CONTRACTOR OR OTHER RESPONSIBLE PERSON, AND ANY NEEDED MAINTENANCE PERFORMED IMMEDIATELY.

SEDIMENT AND EROSION CONTROLS CANNOT BE REMOVED UNTIL THE SITE HAS ADEQUATE STABILIZATION. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUND COVER TO BE CONSIDERED ADEQUATELY STABILIZED AND THE SEDIMENT CONTROL INSPECTOR HAS APPROVED SUCH REMOVAL.

SITE MUST BE GRADED IN SUCH A MANNER THAT THE APPROVED DRAINAGE DIVIDES ARE MAINTAINED THROUGHOUT SITE CONSTRUCTION.

INSPECTION AGENCY APPROVAL STATEMENTS

- APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE.
- APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES BEFORE REMOVAL OF SEDIMENT CONTROLS.
- THE CONTRACTOR SHALL NOTIFY MDE, ENFORCEMENT DIVISION ON THE PERIMETER SEDIMENT CONTROL HAS BEEN INSTALLED AT 410-537-3510 OR MDE, SEDIMENT AND STORMWATER ADMINISTRATION, 1800 WASHINGTON BLVD., BALTIMORE, MD. 21230-1708.

SEQUENCE OF CONSTRUCTION

- THE CONTRACTOR/DEVELOPER MUST NOTIFY ST. MARY'S SOIL CONSERVATION DISTRICT AT 301-475-8402 EXT. 3 TO SCHEDULE A PRE-CONSTRUCTION MEETING AND MISS UTILITY AT 1-800-257-7777 AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 5 DAYS PRIOR TO RESTARTING CONSTRUCTION IF ACTIVITY HAS STOPPED FOR MORE THAN TEN DAYS. APPROVAL OF THE INSPECTION AGENCY (MARYLAND DEPARTMENT OF THE ENVIRONMENT AT (410) 537-3510) SHALL BE OBTAINED BY THE OWNER/DEVELOPER UPON COMPLETION OF THE INSTALLATION OF PERIMETER SEDIMENT CONTROLS, BUT PRIOR TO ANY OTHER EARTH DISTURBANCE OR GRADING.
- CONTRACTOR/DEVELOPER SHALL ARRANGE FOR STAKEOUT OF LIMITS OF DISTURBANCE (LOD) AND PERIMETER SEDIMENT CONTROL DEVICES. IF APPLICABLE, FOREST CONSERVATION SIGNAGE, TREE PROTECTION DEVICES, BLUE PAINT MARKS, AND/OR FLAGGING SHALL BE INSTALLED AT THIS TIME..... 5 DAYS±
- WITH MINIMAL DISTURBANCE, INSTALL ALL PERIMETER SEDIMENT CONTROL DEVICES. TEMPORARILY STABILIZE AS INDICATED ON APPROVED PLAN..... 5 DAYS±
- THE CONTRACTOR SHALL NOTIFY MDE, ENFORCEMENT DIVISION, AT LEAST 48 HOURS PRIOR TO COMMENCING CLEARING OR GRADING AT: 410-537-3510 OR MDE, SEDIMENT AND STORMWATER ADMIN., 1800 WASHINGTON BLVD., BALTIMORE, MD 21230-1708. AS NEEDED
- UPON APPROVAL OF THE MDE INSPECTOR, CLEAR THE REMAINING AREA TO BE DISTURBED. CONTRACTOR SHALL MONITOR TREE PROTECTION DURING CONSTRUCTION..... 5 DAYS±
- PERFORM ROUGH GRADING AND STOCKPILE THE EXISTING TOPSOIL AND SPOIL MATERIAL. TEMPORARILY STABILIZE THE DISTURBED AREA WITH SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SOD. PROVIDE BLAZE ORANGE FENCE AROUND SWM FACILITIES TO PROTECT FROM COMPACTION DURING CONSTRUCTION ACTIVITIES..... 5 DAYS±
- INSTALL DRIVEWAY BASE COURSE, INTERIOR CULVERT WITH INLET / OUTLET PROTECTION AND BEGIN BUILDING CONSTRUCTION, WELL AND SEPTIC SYSTEM INSTALLATION. PERMANENTLY STABILIZE THE DISTURBED AREA WITH MIN. 4" TOPSOIL, SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SOD WHEN FOUNDATION IS BACKFILLED..... 2 MONTHS±
- PERMANENTLY STABILIZE THE ENTIRE DISTURBED AREA(S). CONTRACTOR SHALL PROVIDE QUALITY LANDSCAPING TOPSOIL AND CONFORM TO B-4-2 OF THE 2011 STANDARDS AND SPECS. FOR SEDIMENT AND EROSION CONTROL..... 2 DAYS±
- ONCE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY STABILIZED, INSTALL STORM WATER MANAGEMENT FACILITIES, AND CRITICAL AREA PLANTINGS AND FINAL DRIVEWAY SURFACE TREATMENT (ASPHALT, CR-6 OR CONCRETE) AS SPECIFIED ON PLAN. PERMANENTLY STABILIZE ANY REMAINING DISTURBED AREAS THAT SAME DAY..... 3 DAYS±
- APPROVAL BY THE MDE INSPECTOR SHALL BE OBTAINED BY THE OWNER/DEVELOPER UPON ADEQUATE STABILIZATION OF THE SITE WITH 95% VEGETATIVE GROUND COVER OF THE SITE, BUT BEFORE REMOVAL OF THE SEDIMENT CONTROLS..... 1 DAY±
- IF REQUIRED, CONTRACTOR/DEVELOPER SHALL ARRANGE POST CONSTRUCTION FOREST CONSERVATION INSPECTION WITH A ST. MARY'S COUNTY FOREST INSPECTOR PRIOR TO USE AND OCCUPANCY.

TOTAL TIME APPROXIMATELY 3 MONTHS±

LUGM#22-

Waldorf Lions Foundation, Inc
Golden Beach - Section 2 - Lot 681
L. 6020 F. 280
5TH ELECTION DISTRICT ~ ST. MARY'S COUNTY, MARYLAND

SEDIMENT AND EROSION CONTROL DETAILS AND NOTES

DRAWN: NOVEMBER, 2022 NJ CONTRACT REFERENCE 229020

LORENZI, DODDS, AND GUNNILL, INC.
3475 LEONARDTOWN ROAD, SUITE 100
WALDORF, MARYLAND 20602
PH: (301) 645-2254 or (301) 843-6255

SCALE: NONE

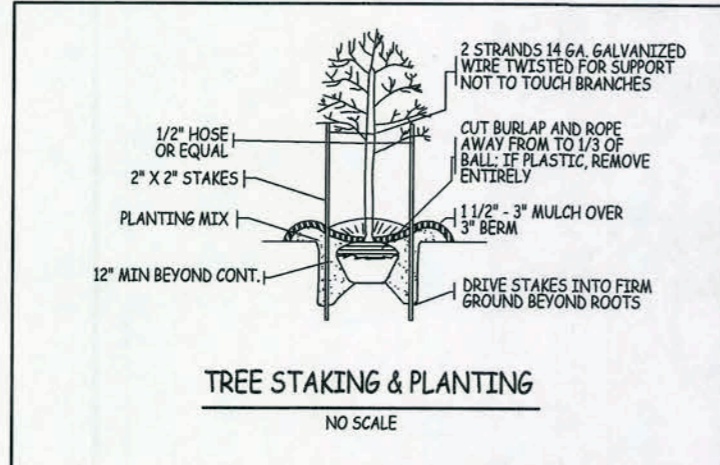
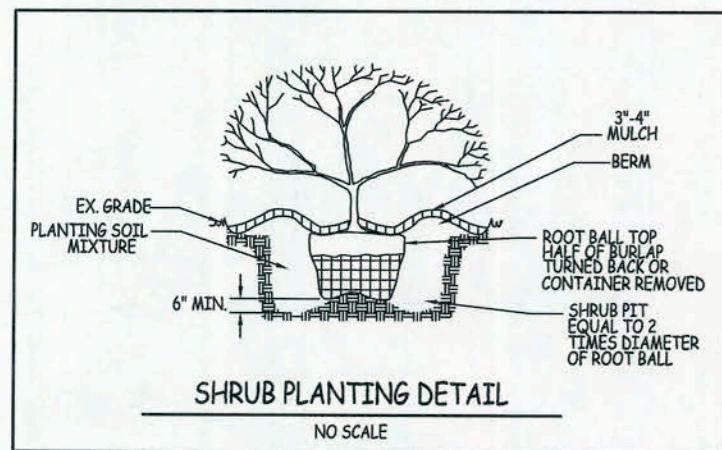
3 OF 4

CRITICAL AREA MITIGATION PLAN, NOTES AND DETAILS

PROPOSED LOT COVERAGE CALCULATIONS:

STRUCTURE TYPE	MATERIAL	% LOT COVERAGE	SQUARE FOOTAGE	LOT COVERAGE
DRIVEWAY	GRAVEL AND CONC.	5.4 %	809 S.F.	809 S.F.
HOUSE	TYP. COVERED	11.8 %	1,765 S.F.	1,765 S.F.
SIDEWALK	CONC.	0.5 %	74 S.F.	74 S.F.
STOOP	TYP. COVERED	0.2 %	37 S.F.	37 S.F.
TOTAL			2,685 S.F.	2,685 S.F.

PROPOSED LOT COVERAGE: 2,685 S.F. / LOT SIZE (15,000 S.F.) = 17.9%



PLANTING CLUSTER SYMBOL	SPECIES NAME AND QUANTITY EA.	COMMON NAME	NO. OF CLUSTERS	SIZE	COND.	CLUSTER CREDIT	TOTAL CREDITS
	1 - LIRIODENDRON TULIPIFERA	TULIP TREE	4	1" DBH.	CONT.	400	1,600
	6 - HYDRANGEA ARBORESCENS	SMOOTH HYDRANGEA		18" HT.	CONT.		
	1 - QUERCUS PHELLOS	WILLOW OAK	5	1" DBH.	CONT.	400	2,000
	6 - ILEX GLABRA	INKBERRY		18" HT.	CONT.		
TOTAL CREDITS PROVIDED							3,600 S.F. CREDITS

FOREST COVERAGE CALCULATIONS

- EXISTING FOREST COVERAGE: 4,115 S.F. (27.4%)
- REQUIRED FOREST COVERAGE: 2,250 S.F. OR 15%. (MINIMUM REQUIREMENT MET (PRE AND POST DEV.))
- FOREST AREA DISTURBED: 3,428 S.F. THIS LOT REQUIRES 2,250 S.F. CREDITS OF NATIVE PLANT MATERIAL TO BE MITIGATED FOR ON SITE. TOTAL CREDITS PROVIDED: 3,600 S.F. MIN. CREDITS. SEE PLANTING PLAN ON THIS SHEET.

INSPECTION AGREEMENT

I, BUD HUMBERT, THE OWNER OF THE SUBJECT PROPERTY, SHOWN HEREON, DO HEREBY GRANT PERMISSION TO THE APPROVING AUTHORITY TO INSPECT THE PLANTINGS AT THE APPROPRIATE TIMES AT THE ADDRESS PROVIDED BELOW.

OWNER _____ DATE _____

REQUIRED SURVIVAL

AT THE END OF THE TWO YEAR MONITORING PERIOD FOR PLANTED LANDSCAPE STOCK, ALL OF THE PLANTS ARE REQUIRED TO SURVIVE PER COMAR 27.01.09.01-2.J. ANY LANDSCAPE STOCK PLANTS THAT DID NOT SURVIVE SHALL BE REPLACED. IF THE COUNTY DETERMINES THAT THE SURVIVAL IS NOT ADEQUATE, THE MONITORING PERIOD MAY BE EXTENDED AND ADDITIONAL INSPECTIONS MAY BE REQUIRED AT THE DISCRETION OF THE COUNTY

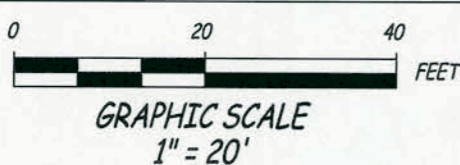
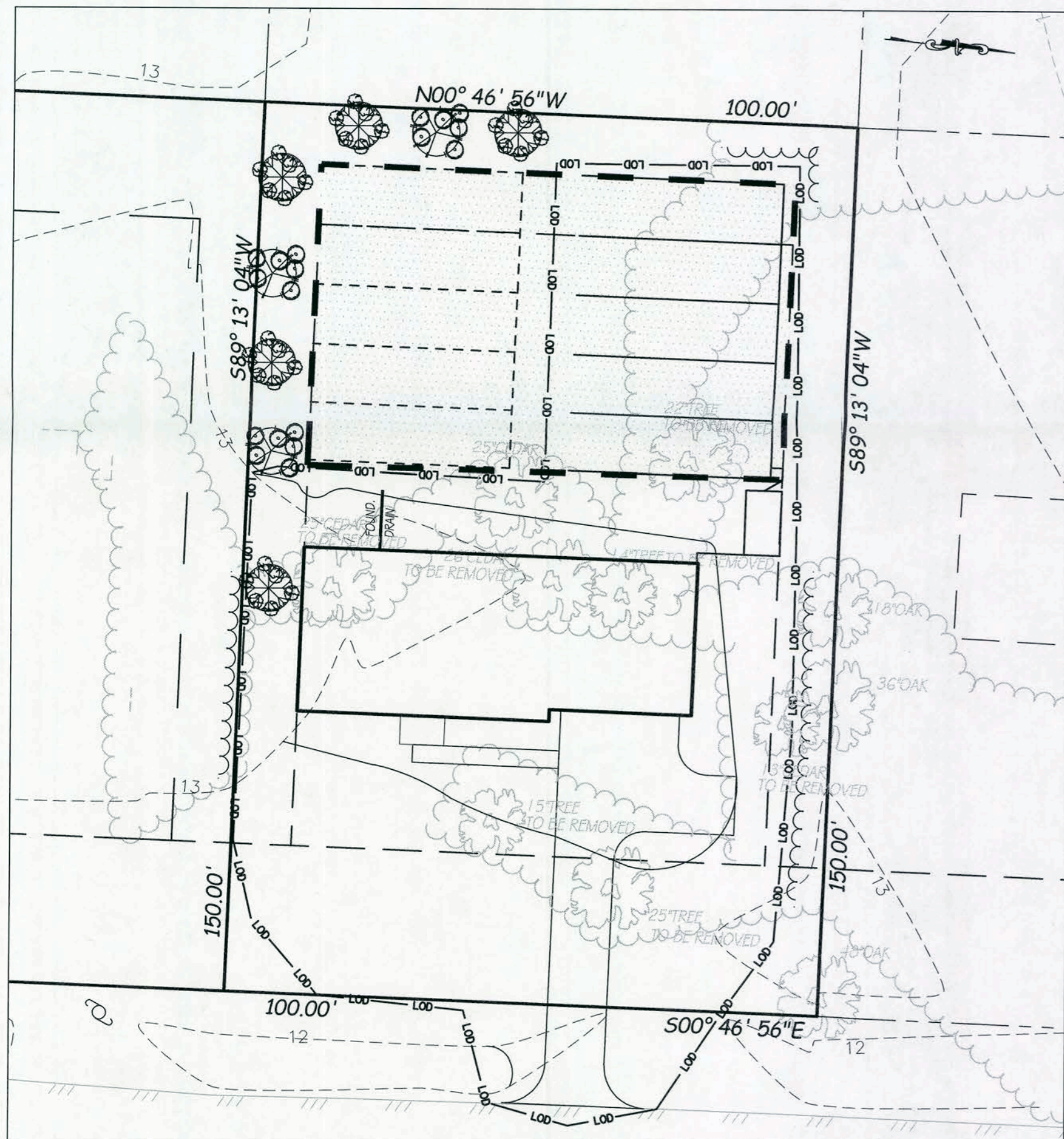
SUBSTITUTIONS MUST BE APPROVED BY THE ST. MARY'S COUNTY DEPT. OF LAND USE AND GROWTH MANAGEMENT

LANDSCAPE NOTES

- ALL PLANT SPECIES SHALL BE NATIVE TO THE CHESAPEAKE BAY WATERSHED AND ATLANTIC COASTAL BAYS REGION BASED ON THE U.S. FISH AND WILDLIFE SERVICE PUBLICATION, NATIVE PLANTS FOR WILDLIFE HABITAT AND CONS. LANDSCAPING
- SPECIES HAVE BEEN SELECTED BASED ON AN ANALYSIS OF SURROUNDING NATIVE FOREST AND DEVELOPED WOODLAND COVER.
- SHRUB SPECIES DO NOT EXCEED 50% OF THE TOTAL PLANTINGS.
- PLANT MATERIALS SHALL BE PLANTED IN EITHER THE SPRING OR FALL MONTHS. MARCH 15 - MAY 31, SEPT. 15 - NOV. 30
- ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN'S PUBLICATION, THE AMERICAN STANDARD NURSERY STOCK.
- HERBACIOUS PLUGS AND TRANSPLANTS SHALL BE KEPT MOIST UNTIL PLANTED SO THAT THE TOP OF THE SOIL ON THE PLUG IS LEVEL WITH THE GROUND

CRITICAL AREA NOTES

- THIS LOT IS LOCATED WITHIN THE LIMITED DEVELOPMENT AREA (LDA) OF THE CHESAPEAKE BAY CRITICAL AREA.
- THE PURPOSE OF THIS PROJECT IS TO PROVIDE MITIGATION FOR 1:1 REPLACEMENT OF TREES REMOVED FOR THE DEVELOPMENT OF A NEW SINGLE FAMILY HOME PER ST. MARY'S COUNTY ZONING ORDINANCE 72.3.B
- THE MAXIMUM LOT COVERAGE IS 25% FOR A LOT LESS THAN 1/2 ACRE AND CREATED BEFORE DECEMBER 1, 1985. 15,000 S.F. X .25 = 3,750 S.F. (REQUIREMENT MET, SEE LOT COVERAGE CHART BELOW).
- THE PROPOSED LOT COVERAGE IS 2,685 S.F. (17.9%).
- TOTAL LOT AREA: 15,000 S.F. OR 0.34 AC.
- ANY CLEARING THAT TAKES PLACE IN THE CRITICAL AREA WILL BE SUBJECT TO ST. MARY'S COUNTY CRITICAL AREA REGULATIONS.
- ALL REMAINING FORESTED AREAS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE PERMITTED.
- 3,428 S.F. (7 TREES) OF CANOPY IS PROPOSED TO BE CLEARED. THIS LOT REQUIRES 1:1 REPLACEMENT OF FOREST AREA CLEARED. SEE CRITICAL AREA MITIGATION PLAN.
- THIS LOT REQUIRES A MINIMUM OF 15% FOREST COVERAGE. REQUIREMENTS MET. SEE FOREST COVERAGE CALCULATIONS.



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. 13310, EXPIRATION DATE: 1-30-23

James Christopher Lober

DATE _____

LUGM#22-

REVISIONS	Waldorf Lions Foundation, Inc Golden Beach - Section 2 - Lot 681 L. 6020 F. 280 5TH ELECTION DISTRICT ~ ST. MARY'S COUNTY, MARYLAND	
	CRITICAL AREA MITIGATION PLAN, NOTES AND DETAILS	SCALE: 1" = 20'
DRAWN: NOVEMBER, 2022 NJ	CONTRACT REFERENCE: 229020	
LORENZI, DODDS, AND GUNNILL, INC. 3475 LEONARD TOWN ROAD, SUITE 100 WALDORF, MARYLAND 20602 PH: (301) 645-2254 or (301) 843-6255		4 OF 4