SHEET INDEX DESCRIPTION SEDIMENT AND EROSION CONTROL PLAN, LANDSCAPE AND SOILS MAP SEDIMENT AND EROSION CONTROL PLAN NOTES AND DETAILS SWM DETAILS - MICRO BIO-RETENTION FACILITIES #1 THRU #3 FOREST CONSERVATION PLAN & DETAILS

HOWARD COUNTY LIVING FARM HERITAGE MUSEUM Site Development Plan Biot Addista Areas Bulkinas A. Jannes Clark, Jr. Main Drysley Cartier Jannes Clark, Jr. Milin Display Bullioling 1905/2007 Dairy Sons Dioptay and Meeting Blog Shed 30300* 1700 a 1 arm Homestead Log axom 15'x15" Prob Perri Protes 2/P2-Ban Barn 45/02/ Comings house 12/20/ Comings House 12/20/ Chicken coop 6/H0/ Work wird 12/20/ Saw MB #2 20/x0/ Smille house 10/10/ Brickswith ahop 20/x/VT Shed 30/x00/ Shed 30/x00/ G. Missia Amarican Comp. In Course School and Playgrown Country School 383/28 County Davie 201/sti (Option AlOction B) Courtry Church Courtry Church 301/50" (Option A or B) noward County Form Chili Leased Area Grat MM SUNSU (Oction Alor b) Statistical state steep steepings ------- Asopt a Park Ason I TOKETON CREEK 2-Display sheds 30'x50' Education Husbing 38/x60 M. Open per measurementure grove C. Fism before Electricity Life before Electricity Form House 30°x30° les bosed 15°x36° Large Am in street 60°x50° Geringe 22°x50° Mathionance building 40°x50° Sew mill \$1°20°x50° Clinides (supplied \$1°10° 2 Sheers 30°x00° O. Open Field Area of Proceed Use Area U. Support Area Scale: 1" = 200" RL High Ridge River Over Look S. Marrichiterus River Over Link

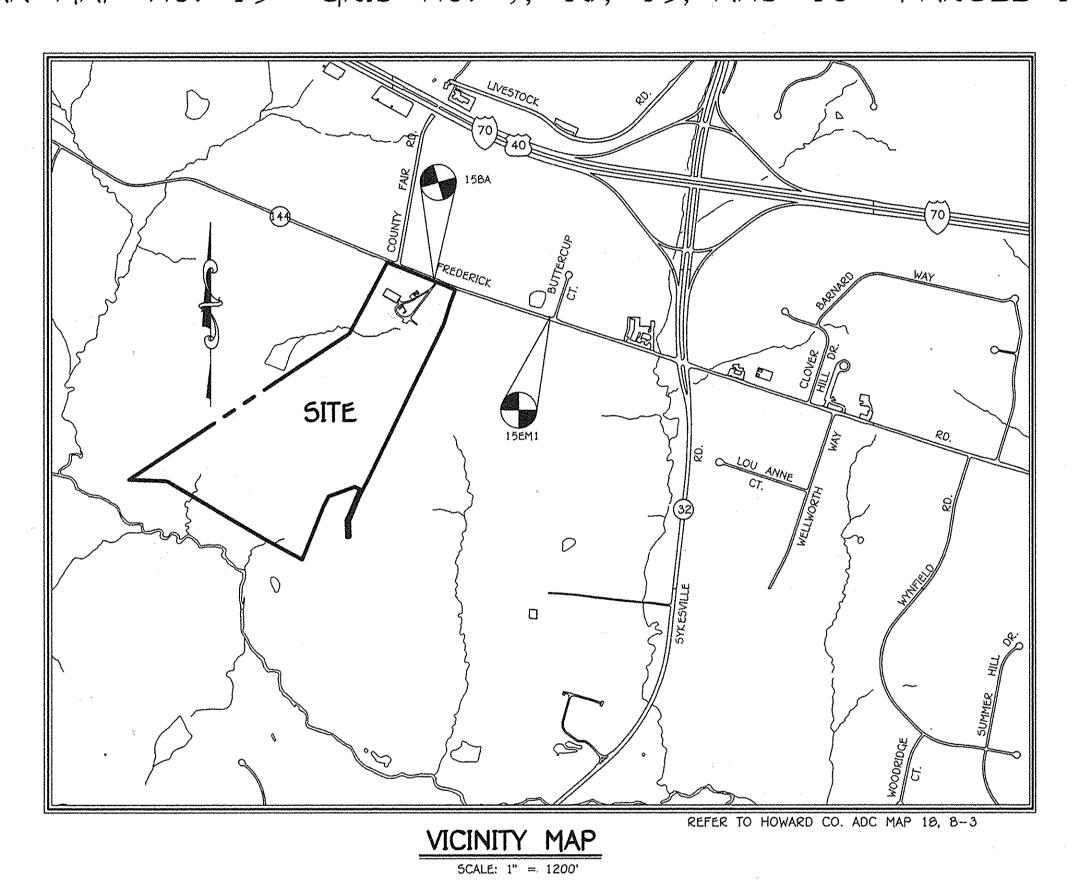
PROPERTY USE MAP NOT TO SCALE

SITE DEVELOPMENT PLAN

HOWARD COUNTY LIVING FARM HERITAGE MUSEUM

KNOWN AS WEST FRIENDSHIP PARK PARKING LOT ADDITION ZONED: RC-DEO

TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142



THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA

2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT 410-313-1860 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.

3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING

4. THIS SUBDIVISION PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 2004 ZONING REGULATIONS PER COUNCIL BILL NO. 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL NO. 44-2013 AND THE COMPREHENSIVE ZONING REGULATION EFFECTIVE 10/6/13 ADOPTED AS CB 32-2013. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS OR PARCELS MUST COMPLY WITH SETBACKS AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF A BUILDING OR GRADING PERMIT APPLICATION.

5. COORDINATES BASED ON NAD'83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS Station No. 158A N 597220 E 1321719 Elev. = 590.20 Station No. 15EM1 N 596410 E 1323958 Elev. = 513.20

6. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/6/13 COMPREHENSIVE ZONING PLAN.

7. BACKGROUND INFORMATION:

a. PROPERTY NAME: HOWARD COUNTY LIVING FARM HERITAGE MUSEUM

c. PARCELS NOS.: 142

d. ZONING: RC-DEO e. ELECTION DISTRICT: THIRD

f. GROSS AREA OF THIS PROPERTY = 135.4 Ac. * NUMBER OF PARCELS: 1

h. NUMBER OF OPEN SPACE LOTS: n/a . AREA OF PARCELS: 135.4 Ac.+

j. AREA OF NON-CREDITED OPEN SPACE LOTS = n/a k. AREA OF PUBLIC ROADWAY TO BE DEDICATED: 0.00 ACRES

J. PREVIOUS FILE NUMBERS: WP-15-125 m. AREA OF FLOODPLAIN = 0.00 Ac. *

n. AREA OF 25% OR GREATER SLOPES = 0.00 Ac. +

o. NET AREA OF SUBMISSION = 135.4 Ac. *

p. REQUIRED PARKING PER DEPARTMENT OF RECREATION AND PARKS 84. Q. PROVIDED PARKING FOR THE SITE IS: 6 STANDARD SPACES, 4 HANDICAP SPACES AND 74 GRASS PARKING SPACES = 84 TOTAL.

8. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T-180.

9. EXISTING WATER IS PRIVATE AND THE EXISTING SEWER IS PRIVATE.

10. BOUNDARY OUTLINE BASED ON MSDAT INFORMATION DATED MAY 15, 2013.

11. TOPOGRAPHIC CONTOURS BASED ON A FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS AND CARTER, INC. DATED AUGUST 16.

12. STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE 2007 MDE, CHAPTER 5 REGULATIONS AND THE LATEST HOWARD COUNTY DESIGN MANUAL, VOL. I, CHAPTER 5 ADOPTED ON OR AROUND MAY 4, 2010. WATER QUALITY AND CHANNEL PROTECTION VOLUME WILL BE PROVIDED BY ROOFTOP DISCONNECTION AREAS AND RAINWATER HARVESTING. WE ARE PROVIDING THE REQUIRED VOLUMES BY A PLANNED CISTERN (M-1) AND A MICRO-BIO RETENTION FACILITY (M-6). THE CISTERN IS TREATING THE ROOFTOP RUNOFF AND THE MICRO BIO-RETENTION FACILITY IS TREATING THE PROPOSED TAR AND CHIP PARKING AREA. OVERBANK FLOOD PROTECTION VOLUME AND EXTREME FLOOD VOLUMES ARE NOT REQUIRED FOR THIS SITE. ALL ROOFTOP AND RAIN HARVESTING STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY THE H.O.A. OR COMMERCIAL ASSOCIATION

13. SEVERAL SPECIMEN TREES ARE KNOWN TO BE LOCATED WITHIN THE EXISTING FOREST; HOWEVER THEY WERE NOT SURVEYED BECAUSE THERE WILL BE NO PROPOSED DISTURBANCES WITHIN THE EXISTING FOREST.

14. THERE ARE NO FLOODPLAIN AREAS LOCATED ON THIS PARCEL OF LAND.

15. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION PASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION PASEMENT ARE ALLOWED. THE FOREST CONSERVATION OBLICATION OF 0.32 ACRES HAS BEEN FULFILLED BY THE RETENTION OF 0.64 ACRES LOCATED ON THE WEST FRIENDSHIP PARK SITE OUTSIDE OF THE PROPOSED LIMIT OF DISTURBANCE. NO SURETY IS REQUIRED FOR FOREST RETENTION.

16. THE ENVIRONMENTAL REPORT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JUNE 16, 2013.

17. THIS PROPERTY IS NOT LOCATED WITHIN THE METROPOLITAN DISTRICT.

18. NO CEMETERIES EXISTS ONSITE. HOWEVER THE EXISTING HOUSE WAS BUILT IN THE 1920'S AND IS CONSIDERED AN HISTORIC

19. THIS PROJECT DOES NOT REQUIRE AN APFO REPORT OR TRAFFIC REPORT.

20. NO GRADING REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS. STREAMS. THEIR BUFFERS. FOREST CONSERVATION EASEMENT OR AREAS OF 100-YEAR FLOODPLAIN.

21. LANDSCAPING HAS BEEN SHOWN IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. PERIMETER LANDSCAPING HAS BEEN MET BY TAKING CREDIT FOR EXISTING VEGETATION. NO SURETY IS THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE
RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA

RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY. 23. THIS PLAN IS SUBJECT TO WAIVER PETITION WP-15-125. THIS WAIVER APPROVED ON MAY 5, 2015, PERTAINED TO SUBSECTION 16.12 (11) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH REQUIRES THAT FOREST CALCULATIONS BE BASED"ON "NET AREA". THIS WAIVER IS TO ALLOW THE FOREST CONSERVATION CALCULATIONS TO BE BASED ON THE LIMITS OF

DISTURBANCE INSTEAD OF THE NET TRACT AREA. THE WAIVER APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. A GRANT OF EASEMENT TO ESTABLISH A 0.64 ACRE FOREST RETENTION EASEMENT AREA ON THE WEST FRIENDSHIP PARK SITE MUST BE PROCESSED THROUGH THE DEPARTMENT OF PUBLIC WORKS, REAL ESTATE SERVICES DIVISION PRIOR TO SUBMITTING THE ORIGINAL SOP MYLAR FOR FINAL SIGNATURE.

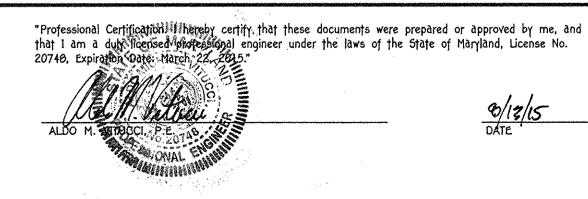
2. COMPLIANCE WITH THE COMMENTS GENERATED WITH THE REVIEW OF 5DP-14-079.

24, THE SDA MUST BE FENCED OFF TO PREVENT VEHICLE TRAFFIC FROM DAMAGING THE AREA. DAMAGE FROM ADDITIONAL VEHICLE TRAFFIC MAY RENDER THE AREA UNUSABLE THUS PREVENTING THE HEALTH DEPARTMENT FROM SIGNING OFF ON ANY FUTURE BUILDING PERMITS UNTIL A NEW SDA IS ESTABLISHED.



APPROVED: For Private Water And Private Sewerage Systems Howard County Health Department.

FISHER, COLLINS & CARTER, INC



DESCRIPTION REVISION BLOCK 10-13-15 10-13-15 Chief, Development Engineering Division

HOWARD COUNTY RECREATION AND PARKS C/O MR. JOHN R. BYRD, DIRECTOR 7120 OAKLAND MILLS ROAD COLUMBIA, MARYLAND 21046-1677 PHONE: (410) 313-4640 DEVELOPER HOWARD COUNTY LIVING FARM HERITAGE MUSEUM C/O MR. JOHN FRANK 12985 ROUTE 144-WEST FRIENDSHIP, MARYLAND 21794 PHONE: (410) 489-2345

Address Chart STREET ADDRESS 12985 FREDERICK ROAD WEST FRIENDSHIP, MARYLAND 21794 SECTION/AREA PARCELS HOWARD COUNTY LIVING FARM HERITAGE MUSEUM DEED REF. | B TAX MAP ELEC. DIST. CENSUS T THIRD 6030 L.635, F.331 |9,10,15,16 | RC-DEO

TITLE SHEET HOWARD COUNTY LIVING FARM

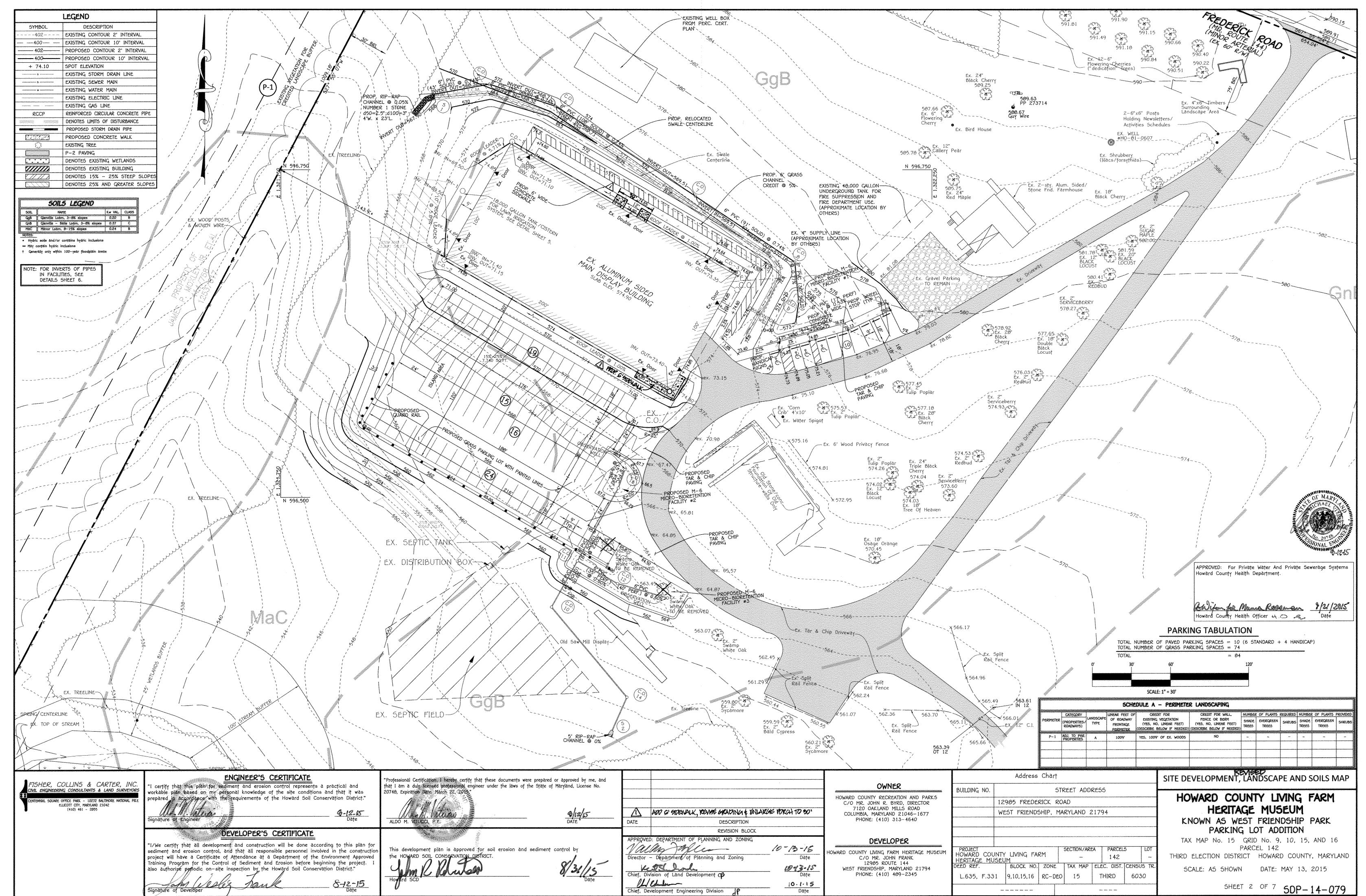
HERITAGE MUSEUM KNOWN AS WEST FRIENDSHIP PARK

PARKING LOT ADDITION TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142

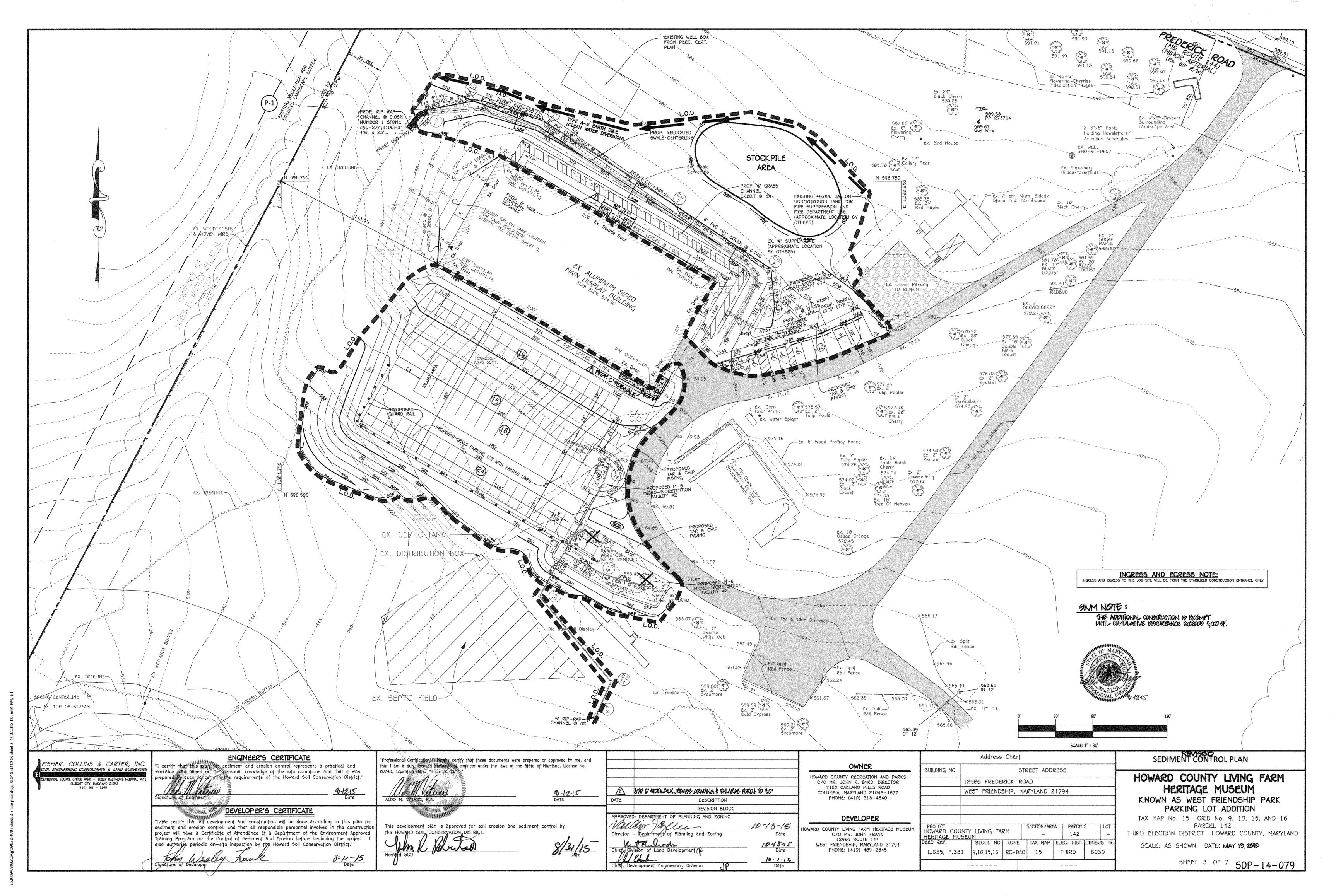
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: MAY 13 9015

SHEET 1 OF 7 SDP-14-079



09\09032\dwg\09032-4001 sheet 2-3 site plan.dwg, SDP sheet 2, 5/13/2015 1:10:15 PM, 1



A. Soil Preparation

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, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

for permanent vegetative establishment are:

:. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required

Soil off between 6.0 and 7.0. . Soluble salts less than 500 parts per million (ppm). ii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus

clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable. v. Soil contains 1.5 percent minimum organic matter by weight Soil contains sufficient pore space to permit adequate root penetration.

. Application of amendments or topsoil is required it on-site soils do not meet the above conditions c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then

scarified or otherwise loosened to a depth of 3 to 5 inches. d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test

e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leavis the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.

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 b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth.

d. The soil is so acidic that treatment with limestone is not feasible.

4. Areas having slopes steeper than 2:1 require special consideration and design

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria: be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by

b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass nut sedge, poison ivy, thistle, or others as specified.

volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than

c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

a. Erosion and sediment control practices must be maintained when applying topsoil.

Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. 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 fertilize on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 90 to 100 percent will pass through a #20 mesh sieve.

4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.

5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

To stabilize disturbed soils with vegetation for up to 6 months.

TEMPORARY SEEDING NOTES (8-4-4)

To use fast growing vegetation that provides cover on disturbed soils.

testing agency. Soil tests are not required for Temporary Seeding.

Conditions Where Practice Applies Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

1. Select one or more of the species or seed mixtures listed in Table 8.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. I this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.

2. For sites having soil tests performed, use and show the recommended rates by the

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section 8-4-3.A.1.b and maintain until the next seeding

lardiness Zo Seed Mixture	ne (from Figure B. (from Table B.1):	3): <u>6b</u>	Fertilizer Rate (10-20-20)	Lime Rațe	
Species	Application Rate (Ib/ac)	Seeding Dates	Seeding Depths		
BARLEY	96	3/1 - 5/15, 8/15 - 10/15 1"	1"	436 lb/ac	2 tons/ac (90 lb/ 1000 sf)
OAT5	72		1*	(10 lb/ (fa 0001	
RYE	112		1-		

PERMANENT SEEDING NOTES (8-4-5)

A. Seed Mixtures

 Select one or more of the species or mixtures listed in Table 8.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1.000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary

Turfqrāss Mixtures

a. Areas where turggrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.

b. Select one or more of the species or mixtures listed below based on the site conditions or purpose Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid stablishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.

establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turtgrass Cultivar Recommendations for Maryland" 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

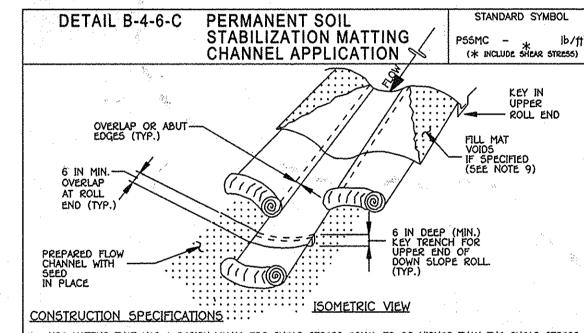
a reliable means of consumer protection and assures a pure genetic line c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD. Eastern Shore: March 1 to May 15. August 15 to October 15

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no

e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse

Permanent Seeding Summary

Härdiness Zone (from Figure B.3): 6b Seed Mixture (from Täble B.3): 8					Fertilizer Rate (10-20-20)			
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20	
8	TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1/4-1/2 in.	45 lbs. per acre	90 lb/ac (2 lb/	90 lb/ac (2 lb/	(90 lb/
					(1.0 lb/ 1000 sf)	1000 sf)	1000 sf)	1000 sf)
		V	,			N.		



USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS

USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2X2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. Ø RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE I TO 1 ½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM Ø INCH MAIN LEG, A MINIMUM I INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.

PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 40 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.

OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 inches (minimum), with the upstream mat overlapping on top of the next downstream mat KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING

STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND

ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.

LESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

8-12-15

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION 2011

CENTER TO INTO GROUND **ELEVATION**

STANDARD SYMBOL

_____ 5F____

GEOTEXTILE GROUND MIN. OF B IN VERTICALLY INTO THE GROUND. BACKFILL BOTH SIDES OF GEOTEXTILE. CROSS SECTION

DETAIL E-1 SILT FENCE

STEP 2 STEP 1 STAPLE-TWIST POSTS TOGETHER ----STAPLE STAPLE ----

CONFIGURATION

STAPLE-

JOINING TWO ADJACENT SIL FENCE SECTIONS (TOP VIEW

CONSTRUCTION SPECIFICATIONS

STEP 3

USE WOOD POSTS 1% X 1% \pm $\frac{1}{16}$ INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT

USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND

PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS

EMBED GEOTEXTILE A MINIMUM OF Ø INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT

WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT

45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN

SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS,

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT. (1 DAY)

2. NOTIFY MISS UTILITY (1-800-257-7777) 40 HOURS BEFORE STARTING WORK, NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIMISION (410-313-1055) 24 HOURS BEFORE STARTING WORK, AND NOTIFY THE BALTIMORE GAS ELECTRIC CO. (410-291-5739) FIVE (5) WORKING DAYS PRIOR TO STARTING WORK. (1 WEEK)

3. CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES ONLY. INSTALL STABILIZED CONSTRUCTION

ENTRANCE, SUPER SILT FENCE & CLEAN WATER DIVERSION EARTH DIKE. (1 DAY)

4. BEGIN GRADING OF PARKING AREAS. (2 WEEKS) 5. INSTALL TAR & CHIP PAVING. (1 WEEK)

ertify that these documents were prepared or approved by me. and

ngineer under the laws of the State of Maryland, License No.

6. INSTALL ROOF LEADER SYSTEM AND ASSOCIATED CLEANOUTS CO-1 THRU CO-4. INSTALL UNDERGROUND CISTERN FOR RAIN WATER HARVESTING AND CONNECT THE ROOF LEADER SYSTEM TO THE CISTERN, INSTALL STORM DRAIN SYSTEM FROM BIO-RETENTION FACILITY #1 FROM THE OUTFALL AT 5-1 THRU CO-8. GRADE IN THE PROPOSED SWALE & STABILIZE THE AREA WITH PERMANENT SEEDING (6 WEEKS)

7. INSTALL SIDEWALKS. (1 WEEK)

9. INSTALL MICRO BIO-RETENTION FACILITIES #1, #2 AND #3 AND ASSOCIATED UNDERDRAIN SYSTEMS INCLUDING CLEANOUTS CO-9 AND CO-10 THRU 13. IN ADDITION INSTALL THE PROPOSED OBSERVATION WELLS FOR ALL 3 BIO-RETENTION FACILITIES. (2 WEEKS)

9. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS. (1 DAY) 10. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS, FINE

GRADE ALL DISTURBED AREAS AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING

<u>EROSION AND SEDIMENT CONTROL NOTE:</u>
THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON ALL SEDIMENT CONTROL DEVICES/PRACTICES ON A DAILY BASIS, AND IMMEDIATELY AFTER EACH RAINFALL.

DETAIL E-3 SUPER SILT FENCE GROUND SURFACE---- GALVANIZED CHAIN LINK FENCE WITH WOVEN SLIT FILM GEOTEXTILE **ELEVATION** WOVEN SLIT FILM GEOTEXTILE-FLOW ___ EMBED GEOTEXTILE CHAIN LINK FENCE Ø IN MIN. INTO GROUND CROSS SECTION

INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES

FASTEN 9 CAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

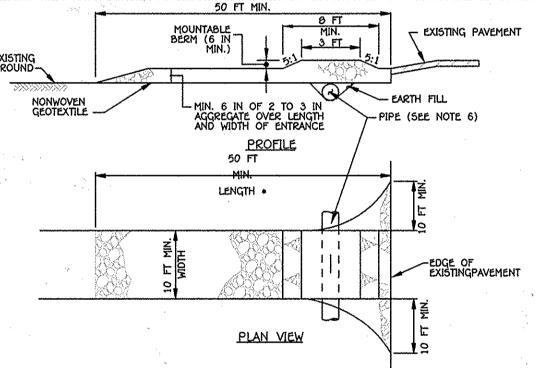
FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF Ø INCHES INTO THE GROUND.

WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION $H\!-\!1$ MATERIALS.

REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION NATURAL RESOURCES CONSERVATION SERVICE STANDARD SYMBOL DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE **EXISTING PAVEMENT**



CONSTRUCTION SPECIFICATIONS

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT

PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT

PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT

LEBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR RACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR 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.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED reas on the project site not under active grading.

SCALE: 1" = 20'

DETAIL C-1 EARTH DIKE SA FLOT CHANNEL SEER OF 1 GROUND CROSS SECTION DIKE TYPE k A A A A A A b - DIKE WIDTH c - FLOW WIDTH 4 FT MIN. 6 FT MIN ' V V V V V V V d – FLOW DEPTH 12 IN PLAN VIEW

STANDARD SYMBOL

SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.

A-3/8-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL

REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.

2. EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.

CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE. . Provide outlet protection as required on approved plan

STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR

MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH

UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

B-4-0 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

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 Applie

Stockpile areas are utilized when it is necessary to salvage and store soil for later use. 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and ediment 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. Benching must be provided in accordance with Section 8-3 Land

3. Runoff from the stockpile area must drain to a suitable sediment control practice. 4. Access the stockpile area from the upgrade side. 5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a

non-erosive manner. 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge. 7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization. O. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slope 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section 8-3

> HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1) A MINIMUM OF 40 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855) 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 MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO. 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT

CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. b) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN

RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 5) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD

COUNTY SEDIMENT CONTROL INSPECTOR. 6) SITE ANALYSIS: TOTAL AREA OF SITE 135.4 ACRES AREA DISTURBED 2.10 ACRES AREA TO BE ROOFED OR PAVED 0.16 ACRES AREA TO BE VEGETATIVELY STABILIZED 1.94 ACRES TOTAL CUT 8,584 CU.YOS. TOTAL FILL 4,729 CU,Y05

OFFSITE WASTE/BORROW AREA LOCATION 7) ANY SEDIMENT CONTROL PRACTICE THAT IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. B) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY

SEDIMENT CONTROL INSPECTOR. 9) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

10) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER. 11) ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION. 12) A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 ACRE PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT-OF THE DISTURBED AREA IN THE PROCEEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE

OWNER HOWARD COUNTY RECREATION AND PARKS

DEVELOPER

C/O MR. JOHN R. BYRD. DIRECTOR

7120 OAKLAND MILLS ROAD

COLUMBIA, MARYLAND 21046-1677

PHONE: (410) 313-4640

Address Chart BUILDING NO. STREET ADDRESS 12985 FREDERICK ROAD WEST FRIENDSHIP, MARYLAND 21794 PARCELS SECTION/AREA HOWARD COUNTY LIVING FARM HERITAGE MUSEUM ELEC. DIST. CENSUS TR BLOCK NO. TAX MAP 9,10,15,16 THIRD 6030 L.635, F.331 RC-DEO 15 _____

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

HOWARD COUNTY LIVING FARM HERITAGE MUSEUM KNOWN AS WEST FRIENDSHIP PARK

SCALE: AS SHOWN DATE: MAY 13, 2019

PARKING LOT ADDITION TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 4 OF 7 SDP-14-079

FISHER. COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ELLICOTT CITY, MARYLAND 21042

ENGINEER'S CERTIFICATE that the plan for sediment and erosion control represents a practical and plan based on my Repsonal knowledge of the site conditions and that it was accompance with the sequirements of the Howard Soil Conservation District." vorkable |

anature of Developer Jans

MDEVELOPER'S CERTIFICATE

TO SECURE THE MAT END IN THE KEY.

I/We certify that all development and construction will be done according to this plan fo sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. also authorize periodic on-site inspection by the Howard Soil Conservation District."

SPICALAL W This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

that I am a duly licensed photospories 20748, Expiration Date: March 22, 20

8-1215

- Department of Planning and Zoning Kat Fulnal Chief, Development Engineering Division

DATE

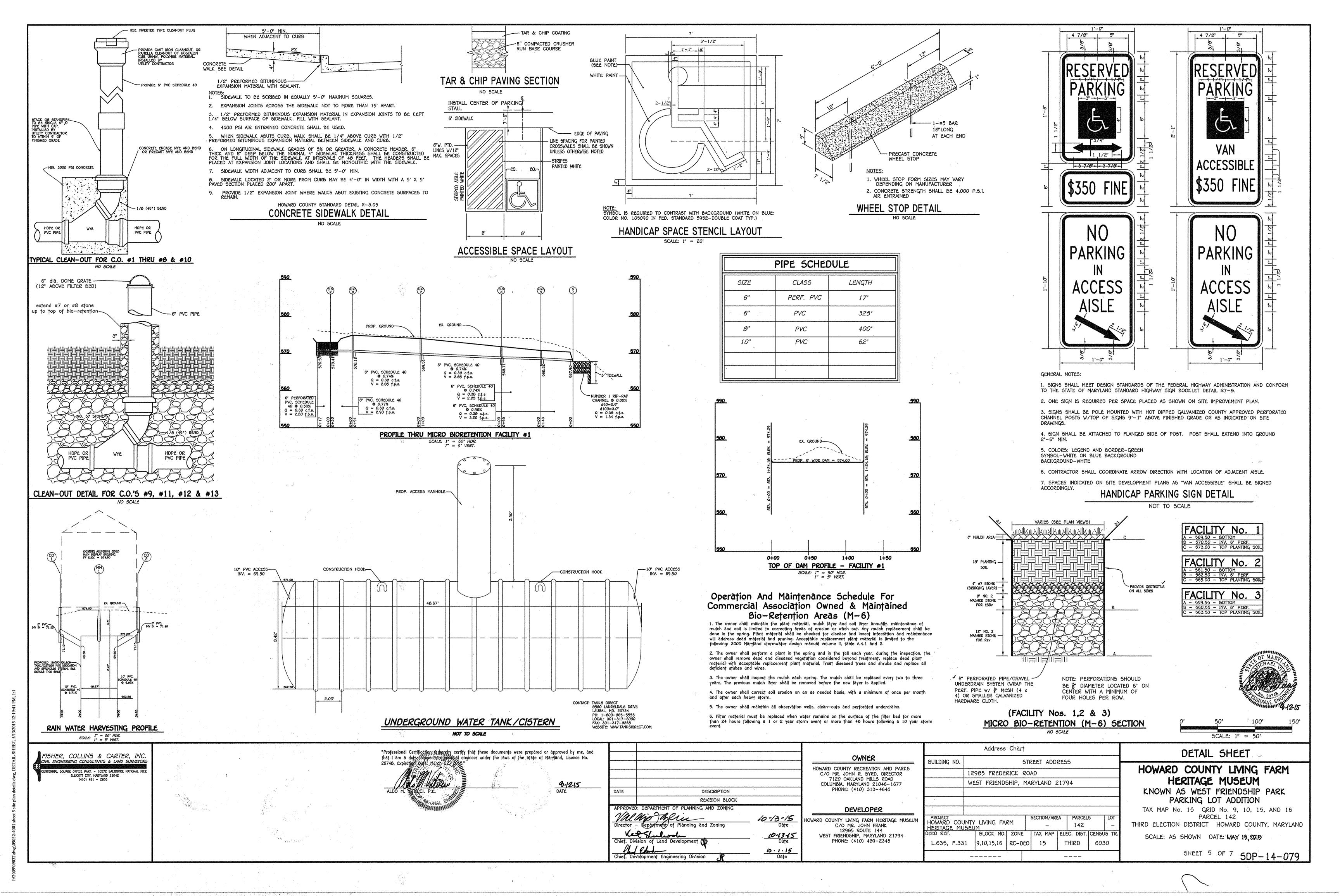
APPROVED: DEPARTMENT OF PLANNING AND ZONING 10-13-15 10-13-15 10-1-15 Date

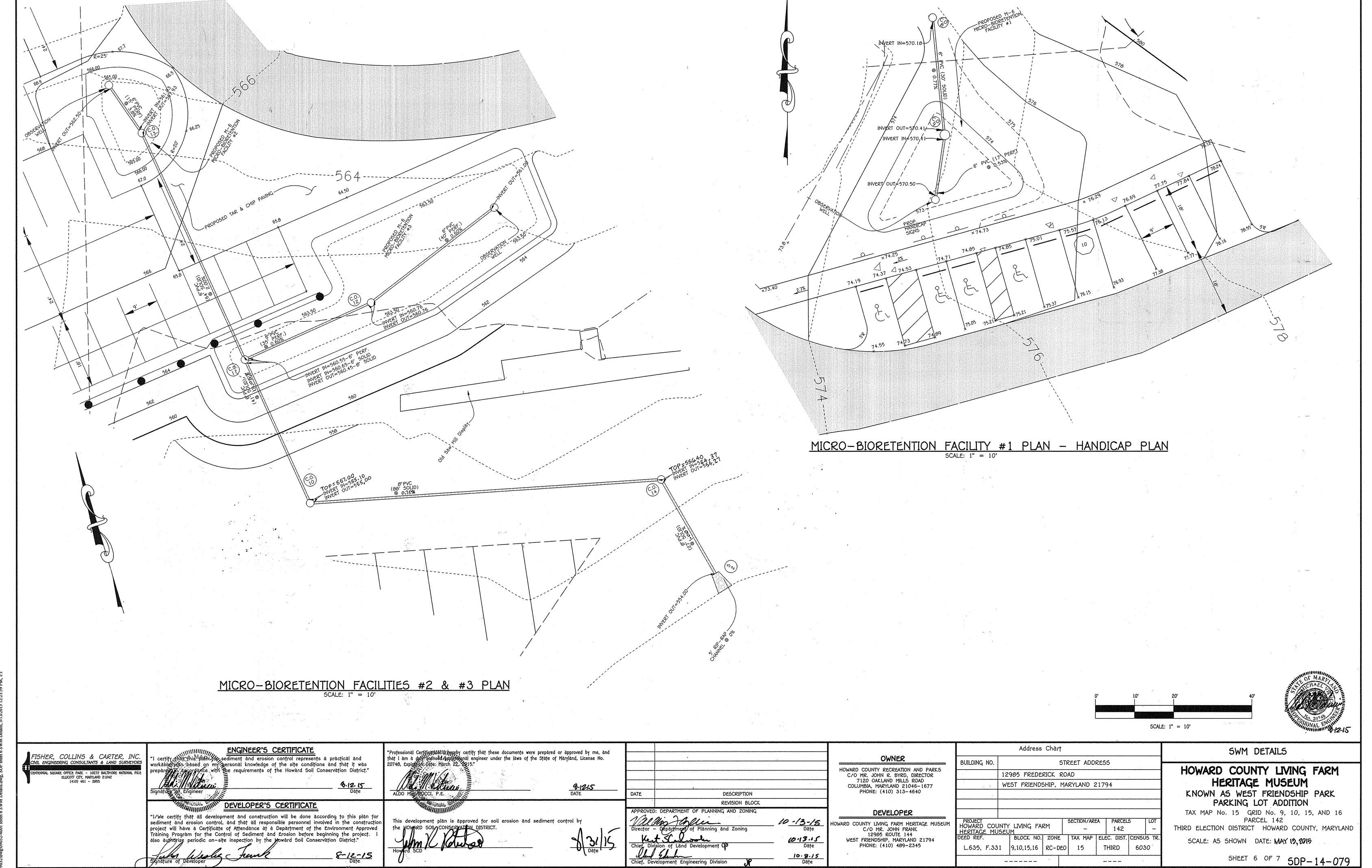
DESCRIPTION

REVISION BLOCK

OWARD COUNTY LIVING FARM HERITAGE MUSEUM C/O MR. JOHN FRANK 12985 ROUTE 144 WEST FRIENDSHIP, MARYLAND 21794 PHONE: (410) 489-2345

DISTURBED AT A GIVEN TIME.





Chief, Development Engineering Division

