"MISS UTILITY" NOTE

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.

STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR DISTURBANCE, 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 STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

PROJECT NARRATIVE

THIS SITE PLAN PROPOSES TO MILL AND OVERLAY A PORTION OF AN EXISTING ASPHALT PARKING LOT, RE-GRADE A PORTION OF THE PARKING LOT AND RE-PAVE, ADD PERMEABLE PAVEMENT SIDEWALK AND ADD MULTIPLE BIO-RETENTION AREAS. STORMWATER MANAGEMENT REQUIREMENTS WILL BE MET WITH BEST MANAGEMENT PRACTICES (BMPS) INCLUDING BIO-RETENTION BASINS AND SIDEWALK PERMEABLE PAVEMENT. THERE WILL BE NO PROPOSED INCREASE IN STORMWATER FLOWS. THE PROPOSED PROJECT WILL DISTURB APPROXIMATELY 37,574 SQUARE FEET. THE EXISTING PARKING LOT AREA WILL NOT BE INCREASED AND TOTAL IMPERVIOUS AREA WILL BE DECREASED STEEP SLOPES EXIST ON THE SITE AND DISTURBANCE ON STEEP SLOPES WILL BE MITIGATED WITH SOIL STABILIZATION MATTING. NO PROPOSED SEDIMENT CONTROLS DISCHARGE ONTO STEEP SLOPES. THE SITE SOIL CONSISTS OF CHRISTIANA-DOWNER-URBAN LAND COMPLEX WHICH IS CLASSIFIED AS A HIGH ERODIBLE SOIL (HES)

THE SITE IS IN THE ANACOSTIA RIVER WATERSHED, WHICH HAS AN ESTABLISHED TMDL FOR SEDIMENT. AS SUCH, ENHANCED EROSION AND SEDIMENT MEASURES ARE REQUIRED. ENHANCED MEASURES INCLUDE SUPER SILT FENCE. TREE PROTECTION WILL ALSO BE UTILIZED FOR THIS PROJECT. THE SITE IS NOT LOCATED WITHIN A TIER II CATCHMENT.

SEQUENCE OF CONSTRUCTION

CONTRACTOR TO NOTIFY "MISS UTILITY" (800) 257-7777 AT LEAST 48 HOURS IN ADVANCE BEFORE BEGINNIN CONSTRUCTION. THIS PLAN IS SPLIT INTO TWO PHASES TO ALLOW STAFF VEHICLES TO ACCESS THE SITE DURING

A. PRE-CONSTRUCTION MEETING WITH INSPECTOR. CALL DEPARTMENT OF PERMITTING, INSPECTIONS AND

ENFORCEMENT (DPIE) OFFICE AT (301) 636-2080.

B. PLACE TEMPORARY DUMPSTER ON-SITE PER LOCATION SHOWN ON PLAN OR COORDINATE WITH SITE INSPECTOR. DUMPSTER SHALL BE PLACED ON EXISTING ASPHALT TO BE MILL AND OVERLAID. C. PERFORM REQUIRED CLEARING AND GRUBBING ON SITE TO INSTALL PERIMETER CONTROLS.

2. CONSTRUCTION OF PERIMETER CONTROLS (ESTIMATED TIMEFRAME: 2 DAYS)

(EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE.)

A. INSTALL SUPER SILT FENCE.

B. INSTALL CONSTRUCTION ENTRANCE.

C. INSTALL TREE PROTECTION. D. PERIMETER CONTROLS SHALL BE INSPECTED DAILY. SHOULD ANY SEDIMENT OVERTOP OR INFILTRATE THE PERIMETER CONTROLS, SEDIMENT SHALL BE REMOVED AND PERIMETER CONTROLS SHALL BE REPAIRED TO ADEQUATELY CAPTURE ALL SEDIMENT LADEN RUNOFF.

REMAINING CLEARING AND GRUBBING (ESTIMATED TIMEFRAME: 4 DAYS) A. FINISH SITE CLEARING AND GRUBBING AND MILLING OF ASPHALT.

B. IMMEDIATELY AFTER GRADING, INSTALL VEGETATIVE STABILIZATION IN ACCORDANCE WITH SECTION B-4 EGETATIVE STABILIZATION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL TO PREVENT EROSION.

C. BEGIN STOCKPILING PROJECT COMPONENTS, AS NEEDED. SEE PLAN VIEW FOR STOCKPILE LOCATION. D. PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS FROM ERODING.

4. GRADING FOR THE REMAINDER OF THE SITE (ESTIMATED TIMEFRAME: 10 DAYS

A. GRADE REMAINING SITE AS NEEDED FOR CONSTRUCTION. INSTALL SOIL STABILIZATION MATTING ON STEEF SLOPES AS SHOWN ON PLAN. THE MATTING SHALL BE REMOVED ONCE THE VEGETATIVE STABILIZATION HAS BEEN MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

B. INSTALL UNDERDRAINS AND STORM DRAIN LINES. UNDERDRAINS AND STORM DRAIN LINES WILL BE CAPPED

AT THIS TIME, SO NO INLET PROTECTION WILL BE REQUIRED.

C. INSTALL CURBS, SIDEWALKS AND COMPLETE PARKING LOT GRADING.

5. FINAL GRADING, LANDSCAPING, AND STABILIZATION (ESTIMATED TIMEFRAME: 14 DAYS)

C. INSTALL LANDSCAPING PLANTS AND TREES.

A. COMPLETE FINAL GRADING. B. INSTALL PROPOSED BEST MANAGEMENT PRACTICES. MAINTAIN SILT FENCE AROUND BMPS AT ALL TIMES AS SHOWN ON THIS PLAN AS NO SEDIMENT LADEN RUNOFF SHALL ENTER ANY BMP.

D. PERMANENTLY STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

E. INSTALL ALL ADDITIONAL WALKWAYS, BIKE RACKS AND ELEMENTS AS SHOWN ON CIVIL AND LANDSCAPE ARCHITECTURAL PLANS

6. SITE PAVING (ESTIMATED TIMEFRAME: 10 DAYS)

A. ONCE FINAL GRADING IS COMPLETE, MILL EXISTING PAVEMENT ON SITE IN AREA SHOWN IN PLAN VIEW. B. ONCE MILLING IS COMPLETE, PAVE PARKING LOT

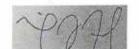
7. REMOVAL OF CONTROLS (ESTIMATED TIMEFRAME: 1 DAY)

A. AFTER FINAL SITE STABILIZATION IS MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, CONTACT

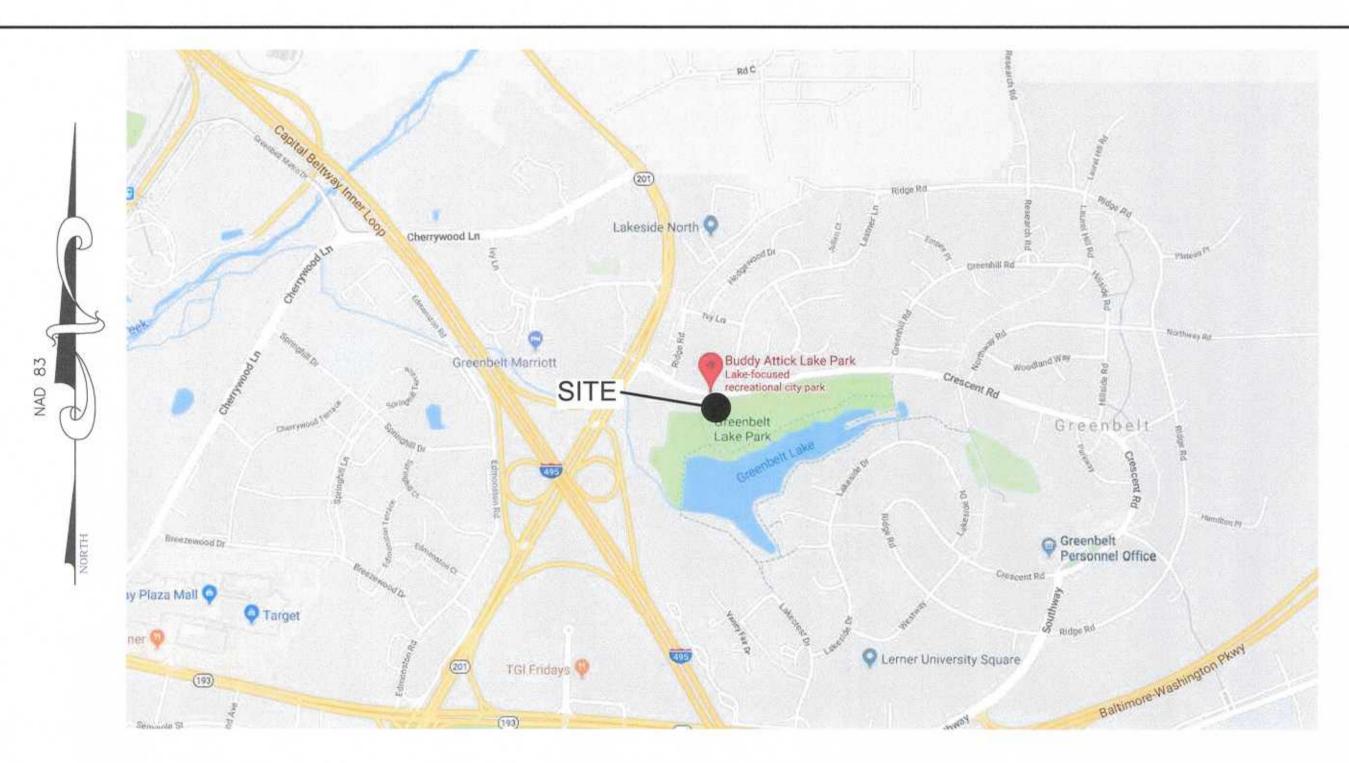
INSPECTORS OFFICE FOR FINAL WALK-THROUGH INSPECTION. B. AFTER INSPECTOR APPROVAL, REMOVE ALL SEDIMENT CONTROL DEVICES.

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. 05-47020, EXPIRATION DATE: 7-9-2021.



4/13/20 DATE:



VICINITY MAP

COVER SHEET FINAL GRADING AND EROSION & SEDIMENT CONTROL PLANS FOR

BUDDY ATTICK LAKE PARK PARKING LOT

555 CRESCENT ROAD GREENBELT, PRINCE GEORGE'S CO., MARYLAND

SHEET INDEX:

CIVP-CDP0000 CIVP-CDP1000 CIVP-CDP2000

CIVP-CDP2100 CIVP-CDP2200

COVER SHEET EXISTING CONDITIONS PLAN FINAL GRADING, EROSION & SEDIMENT CONTROL PLAN **EROSION CONTROL DETAILS EROSION & SEDIMENT CONTROL**

CHECKLIST

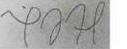
CIVIL ENGINEER

Greening Urban, LLC

1500 Massachusetts Ave. NW Suite 523 Washington DC, 20005 (804) 217-7436 greeningurban.com

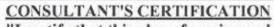
DRAINAGE AND GRADING CERTIFICATE

I HEREBY CERTIFY THAT I HAVE INSPECTED THIS SITE AND THAT DRAINAGE ONTO THIS SITE FROM OTHER UPGRADE PROPERTIES, AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES HAS BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES. I HEREBY CERTIFY THAT THE GRADING SHOWN ON THIS PLAN CONFORMS WITH SUBTITLE FOUR DIVISION OF THE PRINCE GEORGE'S



4/13/20

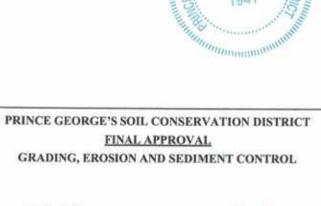
DATE:



"I certify that this plan of erosion and sediment control represents a practicable and workable plan based on my personal knowledge of the site, and that this plan was designed and prepared in accordance with the requirements of the Prince George's Soil Conservation District and "Standards and Specifications for Soil Erosion and Sediment Control". I have reviewed this erosion and sediment control plan with the owner/developer". MD License# 05-47020 Date 4/13/20 Signature

Name Nicholas J. Fudala (printed) (Include seal, company name, address and phone number if not included elsewhere on plan).

OWNER'S/DEVELOPER'S CERTIFICATION "I/We hereby certify that I/we have reviewed this erosion and sediment control plan and that any clearing, grading, drainage, construction and/or development will be done pursuant to this approved plan, including inspecting and maintaining controls and that any responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment approved training program for the control of erosion and sediment before beginning the project. Prince George's Soil Conservation District and the enforcement authority shall have the right of entry for periodicion-site evaluations."
Signature Tell Hully Name(printed) Tech Houby Title Director of Panning & Ph# 30/2345-54/7 Firm Cray of Greenbel Community deleborness Complete address 15 Crescont ROHOOD, Greenbel 111 20770



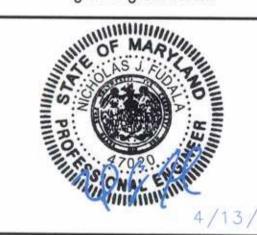
FSC# 149-18 POND (P#) ×	S O ZOZ3 EXPIRATION DATE
Julie O. Niller	5/01/2020
DISTRICT SIGNATURE	APPROVAL DATE

	S	DILS TABLE
SOIL	HYDROLOGIC GROUP	DESCRIPTION
CdD	D	Christiana-Downer-Urban land complex, 5 to 15 percent slopes



Civil Engineer:

Greening Urban, LLC 1500 Massachusetts Ave. NW Suite 523 Washington DC, 20005 (804) 217-7436 greeningurban.com



#	Date	Revisions	
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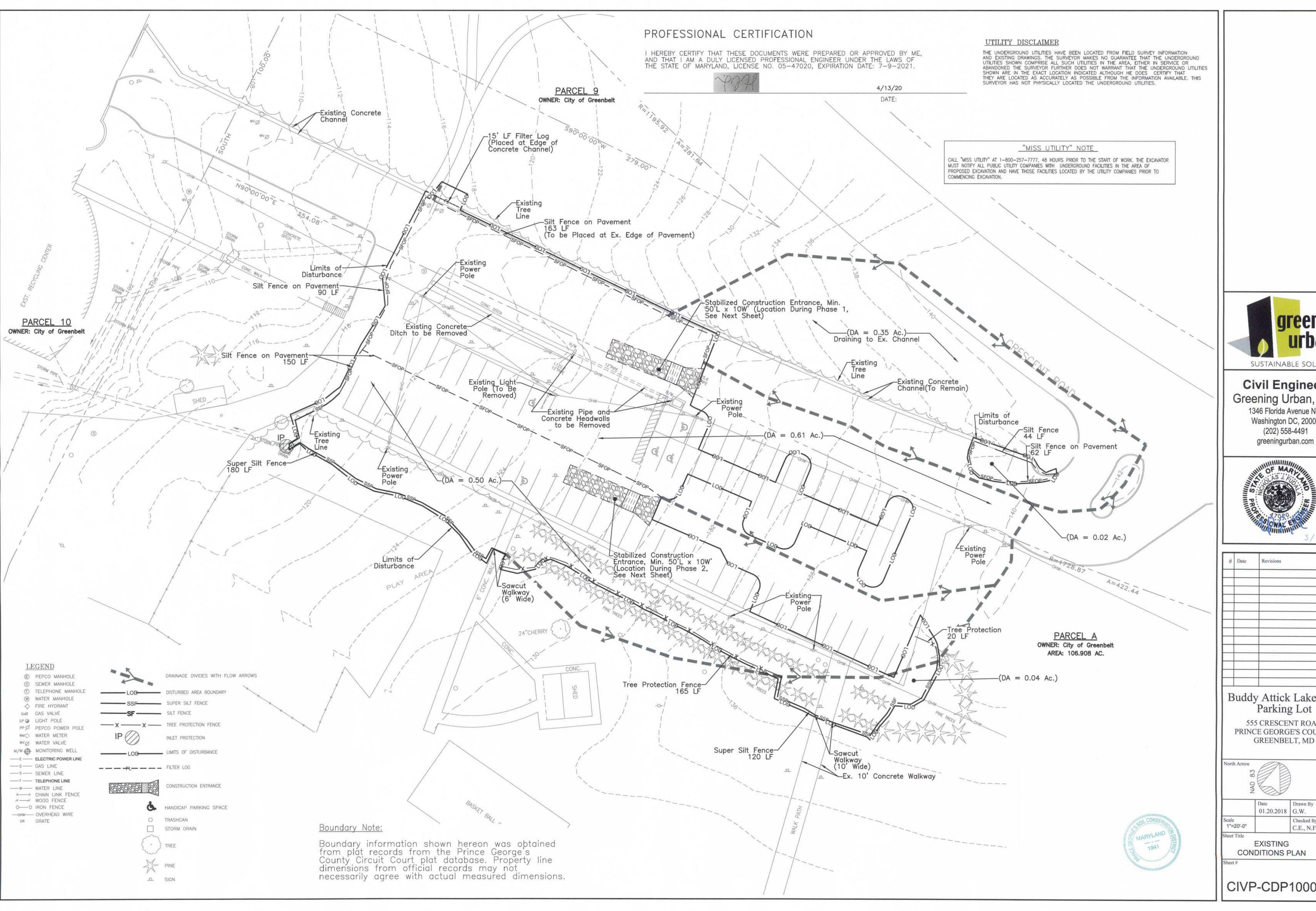
Buddy Attick Lake Park Parking Lot

555 CRESCENT ROAD PRINCE GEORGE'S COUNTY GREENBELT, MD

Sittle Parito	w	
	Date 07.19.2017	Drawn By G.W.
ale		Checked By C.E., N.F.

COVER SHEET

CIVP-CDP0000





SUSTAINABLE SOLUTIONS

Civil Engineer: Greening Urban, LLC 1346 Florida Avenue NW Washington DC, 20009



#	Date	Revisions	

Buddy Attick Lake Park Parking Lot

555 CRESCENT ROAD PRINCE GEORGE'S COUNTY GREENBELT, MD

VAD 83)
Ž	Date 01.20.2018	Drawn By G.W.
		Checked By C.E., N.F.
	EXISTING DITIONS F	

CIVP-CDP1000

General Notes: "MISS UTILITY" NOTE PROFESSIONAL CERTIFICATION CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF LEGEND a. The developer is responsible for the acquisition of all required easement, right WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE and/or rights-of-way pursuant to the discharge from the erosion and sediment Proposed Spot Shot AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. control practices, stormwater management practices and the discharge of stormwater THE STATE OF MARYLAND, LICENSE NO. 05-47020, EXPIRATION DATE: 7-9-2021 SSF—— Super Silt Fence onto or across and grading or other work to be performed on adjacent or -SF - Silt Fence downstream properties affected by this plan. 4/13/20 -x -x Tree Protection Fence DATE: b. Following initial soil disturbance or redisturbance, permanent or temporary Inlet Protection stabilization shall be completed within: SIDEWALK STUBOUT IMPROVEMENTS SCALE: 1"=5" ____LOD____ Limits of Disturbance * DA NUMBER CORRESPONDS TO THE DRAINAGE AREA THE a) three (3) calendar days as to the surface of all perimeter controls, dikes, swales, - - 122 - - Proposed Grade ditches, perimeter slopes, and all slopes greater than three horizontal to one vertical RESPECTIVE BMP SERVES. 6"SD Proposed Underdrains (Size As Shown) Proposed Perforated Underdrain -------- Filter Log b) seven (7) calendar days for all other disturbed or graded areas on the project site. The in-place sediment control measures will be maintained on a continuing basis until the site is permanently stabilized and all permit requirements are met. Hatched Area Denoting Limits of Phase 1 Parking Lot Construction c. The owner/developer or representative shall request that the inspection authority approve work completed in accordance with the approved erosion and sediment Conc. Channel control plan, the grading or building permit and shall obtain written inspection Hatched Area Denoting Limits of Phase 2 approvals by the Inspector at the following stages in the development of the site: -Concrete Ditch (Runs Extent of Parking Lot Construction (1) Prior to the start of earth disturbance; Northern Boundary of Ex. Parking Lot) See Closeup View to the Right for S/W Grading (2) Upon completion of installation of tree protection devices, followed by the Hatched Area Denoting installation of perimeter erosion and sediment controls, prior to proceeding with any Milling and Paving Only other earth disturbance or grading. Other building or grading inspection approvals -15' LF Filter Log (Placed at Edge of Concrete Channel) may not be authorized until initial approval by the Inspector is made; Bio-retention Area (3) Upon completion of stripping, the stockpiling of topsoil, the construction of -Silt Fence 33 LF (Installed temporary sediment and erosion control facilities, disposal of all waste material and Behind Back of Curb) preparation of the ground; -Silt Fence on Pavement 163 LF (DA = 0.37AC.) Permeable Pavement Sidewalk (4) Upon completion of rough grading, but prior to placing topsoil, permanent (To be Placed at Ex. Edge of Pavement) drainage or other site development improvements and ground covers; 50 LF (Installed Behind Back of Curb) Soil Stabilization Matting (5) Prior to the start of another phase of construction or opening of another DA #1*grading unit; -Limits of Disturbance Disturbance Phase 1 Stockpile (Filter Log to be Placed at Entrance) Max Height = 4' Max Slope = 2.5:1 (6) Prior to the removal of sediment control practices; and Construction Entrance Silt Fence on Pavement 90 LF (DA = 0.37AC.) (7) Upon completion of final grading, reforesting, permanent drainage and erosion Prop. Bio-retention--Stabilized Construction Entrance, Min. 50'L x 10W' (Location During Phase 1) control facilities including established ground covers and planting, and all other work Stockpile Area Surrounded by Silt Ex. Curb toof the building permits. Fence) -Temporary Dumpster Location (Phase 1) Silt Fence Reference 29 c. in all sequence of construction. Installed One Travel Way Through the Parking Lot Must be Kept Open at All Times for Daily Recycling Truck Traffic. Behind Back Silt Fence on Pavement 150 LF (DA = 0.33AC. d. Approval shall be requested upon final stabilization of all sites with disturbed areas in excess of two acres before removal of controls. Stockpile Entrance (10' LF Filter Log) -Concrete Channel (Runs Extent of Northern Boundary e. All permits under an erosion and sediment control plan must and can only be issued to the owner/developer that signs the certification on the plan. The owner/ Disturbed Area of Ex. Parking Lot) developer that signs the certification on an erosion and sediment control plan is the SHED-35,915 SF -Disturbed Area 2: responsible party regardless of any sale of the property or work of subcontractors. 659 SF Erosion and sediment control plans are approved for one owner/developer only. -Silt Fence 44 LF f. PGSCD approval of a erosion and sediment control plan, pursuant to meeting local -Prop. Bio—retentions Area (To be Surrounded by Silt Fence) Silt Fence on Pavement 62 LF (DA = 0.37AC.) HLimits of permit requirements for grading, building or street permits, etc., is valid only when Disturbance the work to be performed under the permit is the same as (no more/no less than) Super Silt Fencethat contained in the plan as approved by the PGSCD. 180 LF (DA = 0.07AC.) a. Any changes or modifications to an approved erosion and sediment control plan, not approved by the PGSCD, shall invalidate the plan approval. Soil Stabilization Matting--Stabilized Construction Entrance, Min. 50'L x 10W' (Location During Phase 2) h. Offsite borrow or spoil areas must have an approved and active erosion and sediment control plan. (Installed . Temporary designed sediment basins shall be removed within 36 months after the Phase 2 Stockpile (Filter Log to-be Placed at Entrance) Behind Back beginning of construction of the basin. of Curb) Max Height = 4' Max Slope = 2.5:1 i. On small pond approvals: (1) The owner or engineer will notify PGSCD promptly in writing when construction is Buddy Attick Lake Park begun and when construction is completed. Walkway Prop. Permeable-Paver Sidewalk (To be Surrounded by Silt Fence) (2) The project shall be constructed under the supervision of the engineer-in-Disturbance charge. Within 30 days of the completion of construction, the engineer-in-charge that designed the structure shall provide PGSCD with an As-Built plan and shall Tree Protection certify, with the engineer's seal, that the MD378 pond was constructed as shown on Silt Fence-195 LF MARYLAND the As-Built plans. North Arrow 1941 (3) The approval is valid only for use by the applicant and may not be transferred to another unless written approval for such transfer is obtained from PGSCD. Tree Protection Fence— 165 LF 36,574 SF / 0.84 Acres Disturbed surface area Pavement 19 LF Temporary Dumpster—/ Location (Phase 2) 11,761 SF / 0.27 Acres Vegetatively stabilized area SOIL TYPE Volume of spoil material Prop. Permeable Paver Sidewalk (To be Surrounded by Silt Fence) 1"=20'-0" Volume of cut Prince George's County, Maryland (MD033) O CY Volume of borrow material Acres Percent 4 CY Volume of fill in of AOI Symbol AOI Super Silt Fence-I. List Predominant soil types and general description per PGSCD soil survey: -Sawcut (DA = 0.04AC.)Christiana-Downer-Urban 1.5 100.0% Walkway (10' Wide) land complex, 5 to 15 CdD - Christiana-Downer-Urban land complex, 5% to 15% slopes percent slopes -Ex. 10' Concrete Walkway CIVP-CDP2000 Totals for Area of Interest 1.5 100.0%

greening

urban

SUSTAINABLE SOLUTIONS

Civil Engineer:

Greening Urban, LLC

1500 Massachusetts Ave. NW

Suite 523

Washington DC, 20005

(804) 217-7436

greeningurban.com

OF MARLINI

Parking Lot

555 CRESCENT ROAD

PRINCE GEORGE'S COUNTY

GREENBELT, MD

07.19.2017 G.W.

FINAL GRADING, EROSION &

SEDIMENT CONTROL PLAN

Drawn By

Checked By

C.E., N.F.

PROFESSIONAL CERTIFICATION

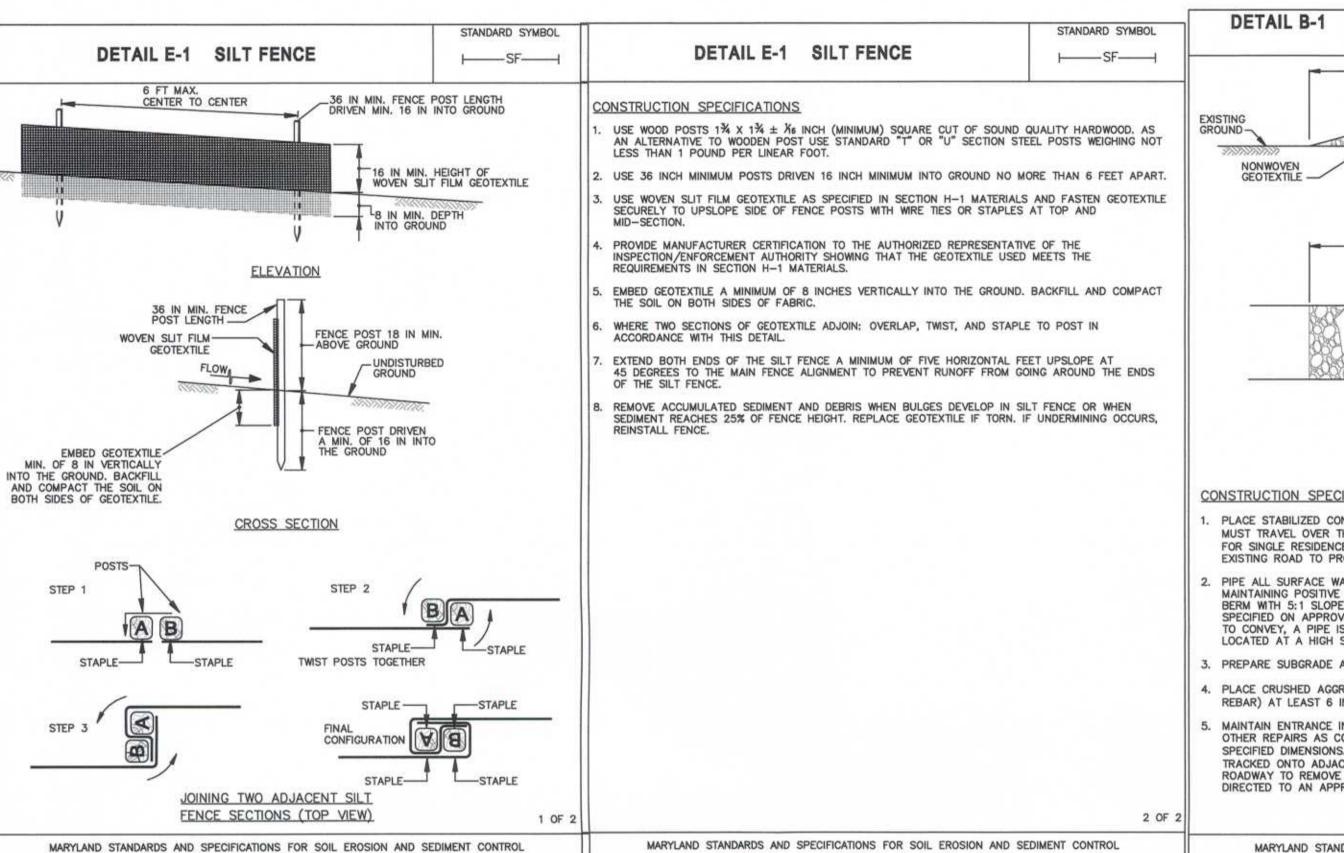
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 05-47020, EXPIRATION DATE: 7-9-2021.



4/13/20 DATE:

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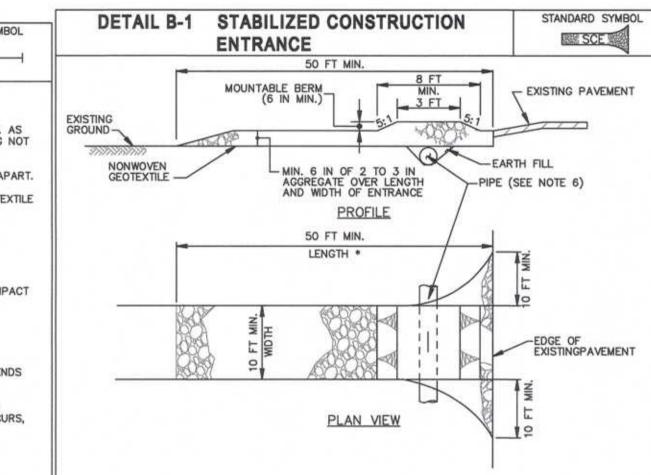
U.S. DEPARTMENT OF AGRICULTURE

WATER MANAGEMENT ADMINISTRATION NATURAL RESOURCES CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT

U.S. DEPARTMENT OF AGRICULTURE

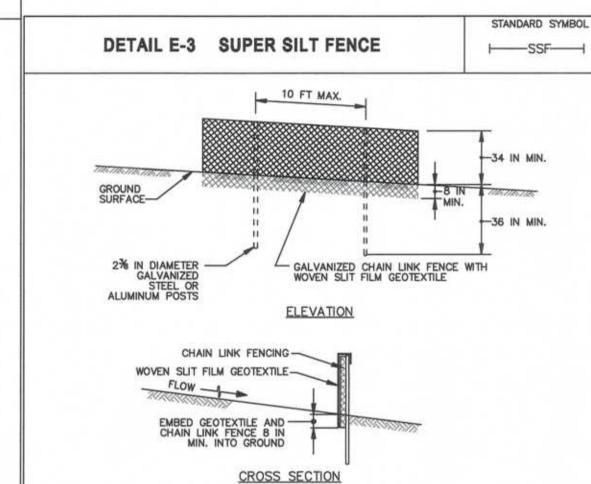
NATURAL RESOURCES CONSERVATION SERVICE



CONSTRUCTION SPECIFICATIONS

- 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 THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- 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 CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT
- 3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- 4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) 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 TRACKED 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 U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

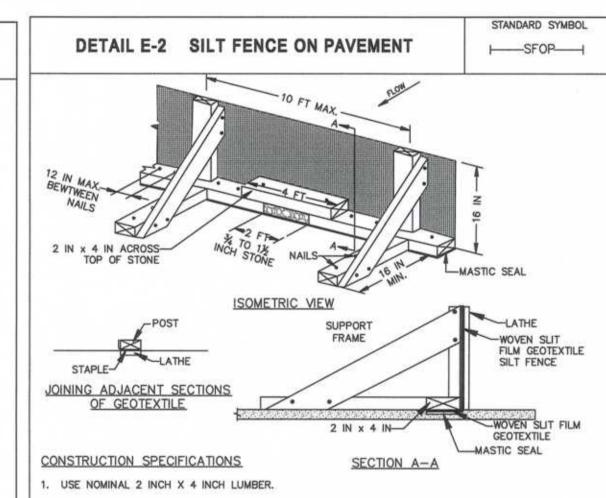


CONSTRUCTION SPECIFICATIONS

- 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 INTO THE GROUND.
- FASTEN 9 GAUGE 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 8 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
- 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

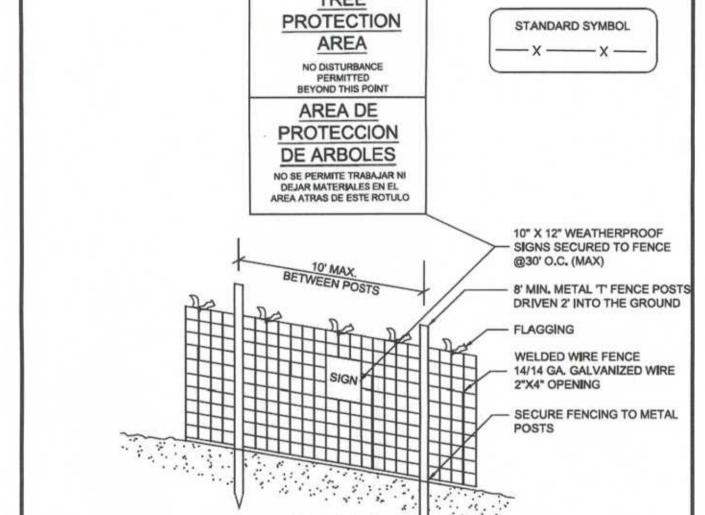
REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPEC	IFICATIONS FOR SOIL E	ROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE RAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
	E.7	



- 2. USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- . SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
- PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
- KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL ATTACH LATHE.
- PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN
- WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION. SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
- O. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN
- SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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



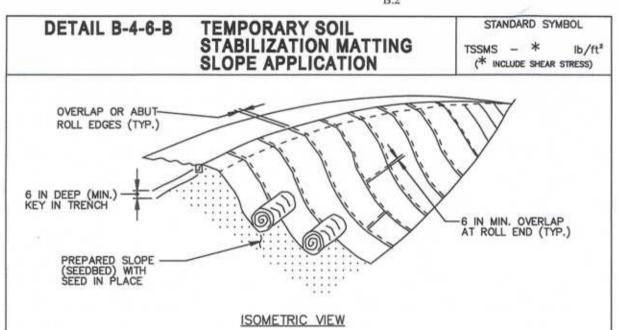
NOTES: PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.

- 2. LOCATION AND LIMITS OF FENCING SHALL BE COORDINATED IN FIELD WITH ARBORIST
- 3, BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.

N.T.S.

- ROOT DAMAGE SHOULD BE AVOIDED.
- PROTECTIVE SIGNAGE IS REQUIRED.
- 6. FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

Detail No. TREE PROTECTION FENCE The Maryland-National Capital Park and Planning Commission



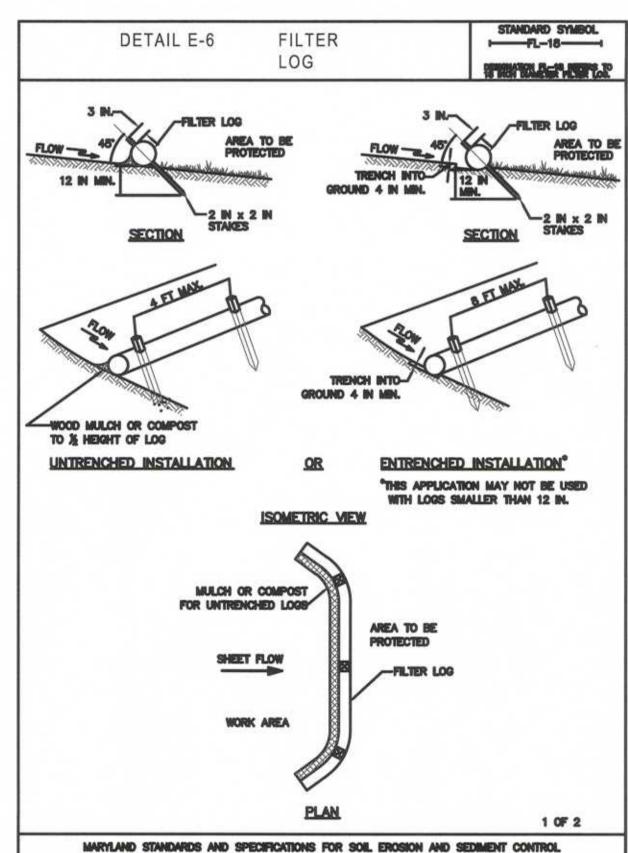
CONSTRUCTION SPECIFICATIONS

MARYLAND DEPARTMENT OF ENVIRONMENT

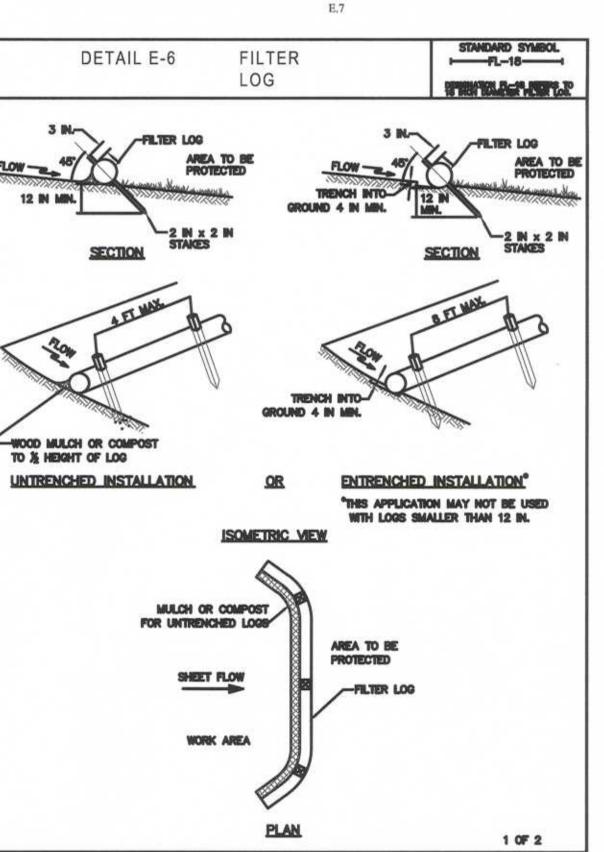
WATER MANAGEMENT ADMINISTRATION

- . USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- 2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS O 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.
- 3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION &
- 5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
- 6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- KEY IN THE UPSLOPE 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 TO SECURE THE MAT END IN THE KEY.
- 8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- 9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION B.39



U.S. DEPARTMENT OF AGRICULTURE URAL RESOURCES CONSERVATION SERVICE



DETAIL E-6 FILTER - FL-18 LOG CONSTRUCTION SPECIFICATIONS INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "J" SHAPE AT EACH END TO PREVENT BYPASS. FOR UNTRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG. USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRUDING ABOVE LOG. WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF & THE EXPOSED HEIGHT OF LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN. REINSTALL FILTER LOG IF UNDERWANING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



Civil Engineer:

Greening Urban, LLC 1500 Massachusetts Ave. NW Suite 523 Washington DC, 20005 (804) 217-7436 greeningurban.com



_			
#	Date	Revisions	
-			
_		1	

Buddy Attick Lake Park Parking Lot

555 CRESCENT ROAD PRINCE GEORGE'S COUNTY GREENBELT, MD

Nort	Arrow	
	Date	Drawn By
	07.19.2017	G.W.
Scale		Checked By

EROSION & SEDIMENT CONTROL PLAN

C.E., N.F

2 OF 2

CIVP-CDP2100

"MISS UTILITY" NOTE

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.

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. 05-47020, EXPIRATION DATE: 7-9-2021.

4/13/20 DATE:

qualified agronomist or soil scientist and approved by the

___ (a) Erosion and sediment control practices must be maintained

when applying topsoil.

appropriate approval authority, may be used in lieu of natural

STA	ABII	LIZ	ΑΤΙ	NΟ	CH	IECI	KLIST							
F.	B-4 '				BILIZA'		de le el t	a and the last					0.05	
_	1.	seedi	ng, mu	lching,	and vege	tative est	ain in place during gradin tablishment.	5 5 5				-	(b)	Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compacted to a minimum thickness of 4 inches. Spreading it
_	2.	repla	cement	s and re	seeding	within th	stablishment and make ne e planting season.							be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and
	=	a. b.	If an	area ha	is less the	in 40 per	tion requires 95 percent g cent groundcover, restabi	lize following the						tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to
		uv.	seed	ing.			lime, fertilizer, seedbed	E4 7.8				_	(c)	prevent the formation of depressions or water pockets. Topsoil must not be placed if the topsoil or subsoil is in a
	-	c.	fertil	lize usin	ig half of	the rates	94 percent groundcover, s originally specified.							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.
		d.	in Ta	ible B.			or permanent seeding are			_	c.			ments (Fertilizer and Lime Specifications)
See	ding Mix			3.6; Ma	intenanc	e Fertiliz	zation for Permanent Seed	Mowing Mowing			_	(1)	appl	tests must be performed to determine the exact ratios and ication rates for both lime and fertilizer on sites having
Tall fescue or more of	makes up		ent 10	-10-10-	500	11.5	Yearly as needed. Fall	No closer than 3 inches, if occasional mowing is desired.					by a	arbed areas of 5 acres or more. Soil analysis may be perform recognized private or commercial laboratory. Soil samples tak
Red & che Kentucky	wing fesc	ue,	30	-10-10	250	9.2 5.8	September, 30 days later. December, May 20, June	Mow no closer than 2 inches for red fescue and Kentucky			_	(2)	Ferti	ngineering purposes may also be used for chemical analysis. lizers must be uniform in composition, free flowing and suitable
Bluegrass, Fescue mis			20	-10-10	100	2.3	30, if needed.	bluegrass, 3 inches for fescue.					subst	ccurate application by appropriate equipment. Manure may be tituted for fertilizer with prior approval from the appropriate oval authority. Fertilizers must all be delivered to the site fully
_	3.	B-4-		mental Slopes	Stabiliza	ation							label	led according to the applicable laws and must bear the name, tra e or trademark and warranty of the producer.
		-	(1)	Exc			cut slopes in increments e seedbed and apply seed				_	(3)	Lime	e materials must be ground limestone (hydrated or burnt lime materials must be ground limestone (hydrated or burnt lime materials must be ground limestone) which contains at least 50
		_	(2)	Note	: Once e	xcavatio	progresses. on has begun the operati						perce	ent total oxides (calcium oxide plus magnesium oxide). estone must be ground to such fineness that at least 50 percent
				tops	oil (if red	quired) a		mulch. Any interruptions					will j	pass through a $\#100$ mesh sieve and 98 to 100 percent will pass agh a $\#20$ mesh sieve.
			*****	will			completing the operation pplication of temporary	out of the seeding season) stabilization.			-	(4)	the to	e and fertilizer are to be evenly distributed and incorporated into op 3 to 5 inches of soil by disking or other suitable means.
		b.	(1)				e fill slopes in increments				_	(5)	sprea	re the subsoil is either highly acidic or composed of heavy clay ad ground limestone at the rate of 4 to 8 tons/acre (200-400
			(2)	slope	es as the	work pro				5.	B-4-	3 Seedin		ds per 1,000 square feet) prior to the placement of topsoil. Mulching
		-	(2)	15 fè	et, or wh		diately when the vertical landing operation ceases as		_	_	a.		ng Spe	cifications eed must the requirements of the Maryland State Seed Law. A
		_	(3)		e end of		, install temporary water				_	.,,	seed	must be subject to re-testing by a recognized seed laboratory, eed used must have been tested within the 6 months immediate
			(4)	in a	non-erosi	ve mann	ept surface runoff and cor er. ement of fill has begun t	5) 50					prece	eding the date of sowing such material on any project. Refer to e B.4 regarding the quality of seed. Seed tags must be available
		_	(4)	be c	ontinuou	s from g	rubbing through the co soil (if required) and pe	mpletion of grading				(2)	upon	request to the inspector to verify type of seed and seeding rate. ch alone may be applied between the fall and spring dates only
				mul	ch. Any	interrup	etions in the operation of seeding season will neces	r completing the					the g	round is frozen. The appropriate seeding mixture must be appl a the ground thaws.
							rary stabilization.	shale the						
-	4.	B-4-3		repara Prepara		psoiling	and Soil Amendments				_	(3)		ulants: The inoculants for treating legume seed in the seed ures must be a pure culture of nitrogen fixing bacteria prepared
	_	_	(1)		porary St		on ration consists of loosening	ng soil to a depth of					speci	ifically for the species. Inoculants must not be used later than the indicated on the container. Add fresh inoculants as directed on
				No.E.	3 to 5	inches b	y means of suitable agriculation as disc harrows or chis	altural or construction					the p	ackage. Use four times the recommended rate when osceding. Note: It is very important to keep inoculants as c
					mount	ed on co	nstruction equipment. A rolled or dragged smooth	fter the soil is loosened,					as po	ossible until used. Temperatures above 75 to 80 degrees Fal weaken bacteria and make the inoculants less effective.
							dition. Slopes 3:1 or flattening parallel to the conto				-	(4)	Sod o	or seed must not be placed on soil which has been treated with sterilants or chemicals used for weed control until sufficient tim
			_	(b)	Incorp	orate lin	r and lime as prescribed one and fertilizer into the to							lapsed (14 days min.) to permit dissipation of phyto-toxic
		_	(2)	Pern	nanent Sta	abilizatio				_	b.	Seedi (1)		olication Seeding: This includes use of conventional drop or broadcast
			_	(a)	or mo	re. The	equired for any earth di minimum soil conditions						sprea (a)	
					vegeta	(i)	blishment are: Soil pH between 6.0 and							Temporary Seeding Table B.1, Permanent Seeding Table B.3 or site-specific seeding summaries.
					_		Soluble salts less than 50 (ppm).	0 -10 00				_	(b)	Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the
					_		Soil contains less than 40 enough fine grained mate	erial (greater than 30						seeded area with a weighted roller to provide good seed to soil contact.
							percent silt plus clay) to p hold a moderate amount	of moisture. An			_	(2)		or Cultipacker Seeding: Mechanized seeders that apply and r seed with soil.
							exception: if lovegrass w sandy soil (less than 30 p					-	(a)	Cultipacking seeders are required to bury the seed in such a fashion as to provide at least ¼ inch of soil covering.
					_	(iv)	would be acceptable. Soil contains 1.5 percent	minimum organic					(b)	Seedbed must be firm after planting. Apply seed in two directions, perpendicular to each other.
					-	(v)	matter by weight. Soil contains sufficient po adequate root penetration				_	(3)		Apply half the seeding rate in each direction. oseeding: Apply seed uniformly with hydroseeder (slurry
			-	(b)		cation of	amendments or topsoil is set the above conditions.					_	(a)	des seed fertilizer). If fertilizer is being applied at the time of seeding, the
			_	(c)	Grade	d areas n	nust be maintained in a true e approved plan, then scar							application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P ₂ O ₂
				(d)	looser	ed to a d	lepth of 3 to 5 inches.						(h)	(phosphorous), 200 pounds per acre; K ₂ 0 (potassium), 200 pounds per acre.
			_	(e)	as ind	icated by	the results of a soil test. Idments into the top 3 to 5						(0)	Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not
				(-)	diskin	g or othe	r suitable means. Rake la nove large objects like sto	wn areas to smooth					(a)	more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding. Mix seed and fertilizer on site and seed immediately and
					and re	ady the a	rea for seed application, th a heavy chain or other	Loosen surface soil				_	(c)	without interruption.
					the su	rface who	ere site conditions will no ation. Track slopes 3:1 o	t permit normal			c.	Mulel	(d) Mater	When hydroseeding do not incorporate seed into the soil. rials (in order of preference)
					equip	ment leav	ring the soil in an irregula parallel to the contour of	r condition with			_	(1)	Straw	consisting of thoroughly threshed wheat, rye, oat, or barley easonably bright in color. Straw is to be free of noxious weed
					top 1	to 3 inche	es of soil loosen and friab ssary on newly disturbed	le. Seedbed loosening					seeds	as specified in the Maryland Seed Law and not musty, moldy, I, decayed, or excessively dusty. Note: Use only sterile straw
	_	b.		soiling								(2)	mulc	h in areas where one species of grass is desired. d Cellulose Fiber Mulch (WCFM) consisting of specially
		_	(1)	pern	anent ve	getation.	The purpose is to provid	e a suitable soil				577		red wood cellulose processed into a uniform fibrous physical
				cont	ent, low r	nutrient le	growth. Soils of concern evels, low pH, materials to					-	(a)	WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate
		_	(2)	Tops		ged from	an existing site may be u						(b)	visual inspection of the uniformly spread slurry. WCFM, including dye, must contain no germination or
				of to	psoil to b	e salvage	th in these specifications. ed for a given soil type ca	n be found in the					(c)	growth inhibiting factors. WCFM materials are to be manufactured and processed in
			(2)	USE	A-NRCS	3.	file section in the Soil Sur	50.07 51						such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and
		_	(3)	(a)	The te	xture of t	o areas having 2:1 for flat the exposed subsoil/paren							will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotte
			_	(b)	The so	oil materi	duce vegetative growth. al is so shallow that the re							like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass see
				(a)	moiste	are and pl	ort plants or furnish conti lant nutrients, il to be vegetated contain:	2 20						in contact with the soil without inhibiting the growth of the grass seedings.
			_	(c)	plants	growth.						_	(d)	WCFM material must not contain elements or compounds at concentration levels that will be phyto-toxic.
			(4)	(d)	feasib	le.	cidic that treatment with I					_	(e)	WCFM must conform to the following physical requirements fiber length of approximately 10 millimeters, diameter
		_	(4)	and	design.		eeper than 2:1 require spe							approximately 1 millimeter, pH range of 4.0 to 8.5, ash conte of 1.6 percent maximum and water holding capacity of
		_	(5)	follo	wing crit	eria:	Soil to be used as topso				d.	Mulcl	Appli	90 percent minimum.
				(a)	sandy	clay loan	e a loam, sandy loam, clay n, or loamy sand. Other s	oils may be used if			-	(1) (2)	Apply	y mulch to all seeded areas immediately after seeding. a straw mulch is used, spread it over all seeded areas at the rate
					by the	appropri	by an agronomist or soil s ate approval authority. To	opsoil must not be a				5(6)	of 2 t	ons per acre to a uniform loose depth of 1 to 2 inches. Apply h to achieve a uniform distribution and depth so that the soil
					than 5	percent l	trasting textured subsoils a by volume of cinders, stor-	nes, slag, coarse					surfac	ce is not exposed. When using a mulch anchoring tool, increase oplication rate to 2.5 tons per acre.
				(Is)	than 1	1/2 inches	el, sticks, roots, trash, or in diameter. e free of noxious plants or	25			_	(3)	Wood	d cellulose fiber used as mulch must be applied at a net dry at of 1,500 pounds per acre. Mix the wood cellulose fiber with
			_	(b)	Bermi	ida grass,	e free of noxious plants of , quack grass, Johnson gra others as specified.						water	to attain a mixture with a maximum of 50 pounds of wood ose fiber per 100 gallons of water.
			_	(c)	Topso	il substitu	nners as specified. utes or amendments, as re omist or soil scientist and			_	e.	Mulch (1)	Ancho	

mulch to minimize loss by wind or water. This may be done by

size of the area and erosion hazard:

one of the following methods (listed by preference), depending upon

		9.50	
		(a)	A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inch This practice is most effective on large areas, but is limited to flatt slopes where equipment can operate safely. If used on sloping lan this practice should follow the contour.
	-	(b)	Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
		(c)	Synthetic binders such as Acrylic DLR(Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
	-	(d)	Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.
6. B-	4-4 Tempe	orary S	Stabilization
-	_ a.	or les	sed soils where ground cover is needed for a period of 6 months ss. For longer duration of time, permanent stabilization practices equired.
	-	(1)	Select one or more of the species or seed mixtures listed in Table B.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. If 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 testing agency. Soil tests are not required for Temporary Seeding.
	-	(3)	When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone and maintain until the next seeding season.
			Towns and Conding Comment

		one (from Figure ire (from Table B			Fertilizer Rate (10-20-20)	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
	Annual Ryegrass /Lolium perenne	40	Feb 15-Apr 30 Aug 15-Nov 30	0.5"	436 lb/ac (10 lb/1,000 sf)	2 tons/ac (90 lh/1,000 sf)
	Barley/ Hordeum vulgare	96	Feb 15-Apr 30 Aug 15-Nov 30	1.0"		
	Oats/Avena sativa	72	Feb 15-Apr 30 Aug 15-Nov 30	1.0"		
	Oats/Avena sativa B-4-5 Perman	72		1.0"		

	Oats/	/Avena	sativa		72	Feb	15-Apr 15-Nov	30	1.0"	_		
	7.	B-4-5			tabilizat			_				
		a.		sed soils where ground cover is needed for 6 months or more.								
b. Seed Mixtures												
			(1)	General Use								
				(a)	for the based of selecte	appropriate on site of mixturnent Sec	riate Plar condition re(s), app	or polica	rdiness Ze urpose fou tion rates a	nixtures listed in Table B.3 one (from Figure B.3) and and on Table B.2. Enter and seeding dates in the ammary is to be placed on		
			_	(b)	Addition shoreli wildlif	onal pla nes, stre e or aes	eam bank thetic tre	s, or	dunes or i	exceptional sites such as for special purposes such as found in USDA-NRCS 342-Critical Area Planting.		
			_	(c)					rea over 5 sting agen	acres, use and show the rates		
				(d)	(46-0-0 at the t	0)at 3½ ime of s	pounds p seeding in	er 1 add	,000 squar	apply urea form fertilizer e feet (150 pounds per acre) e soil amendments shown		
		_	(2)	Turfg	rass Mix	tures						
			_	(a)	playgre	ounds ar		erci		include lawns, parks, ich will receive a medium to		
				(b)	Select on the applica	one or n site con tion rat	nore of the ditions of es and se	ne sp r pur edin	pose. Ente g dates in	ixtures listed below based er selected mixture(s), the Permanent Seeding ed on the plan.		
				_	(1)	that rec the area Recom Seeding Choose	seive inte as of cen mended g Rate; a minin ch rangii	nsiv tral l Cert 1.5 to tum	e managen Maryland a ified Kentu o 2.0 pound of three Ke	Mixture: For use in areas nent. Irrigation required in and Eastern Shore. acky Bluegrass Cultivars ds per 1,000 square feet. entucky bluegrass cultivars 5 percent of the total mixture		

		with each ranging from 10 to 25 percent of the total mixture by weight.
-	(ii)	Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per
		1,000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
	(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
_	(iv)	1,000 square feet. One or more cultivars may be blended. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For 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: 1½ to 3 pounds per 1,000 square feet. Notes:
		Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendation 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
	Y 1 . 1 . 7	protection and assures a pure genetic line.

	(c)	Ideal Times of Seeding for Turf Grass Mixtures
	1000	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 (Hardiness Zones: 7a)
_	(d)	Till areas to receive seed by discing 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 1½ inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
-	(c)	If soil moisture is deficient, supply new seedings with adequate water for plant growth (% to 1 inch every 3 to 4 days depending

water for plant growth (½ 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 sites.

Permanent Seeding Summary

		one (from Figure B ure (from Table B.			,	Fertilizer Rı (10-20-20)		Lime Rate
No.	Species Creeping Red	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P202	K ₂ 0	2 tons/ac (90 lb/ 1,000 sf)
	Fescue/Festuca	60	Feb 15-Apr 30 Aug 15-Oct 31	1/4"	45 lb/ac (1.0 lb/ 1,000 sf)	90 lb/ac (2 lb/ 1,000 sf)	90 lb/ac (2 lb/ 1,000 sf)	
	rubra var. rubra Kentucky		Nov 1-Nov 30					
	Bluegrass /Poa pratensis	15	Feb 15-Apr 30 Aug 15-Oct 31 Nov 1-Nov 30	1/4"				
	c. Sod:	General Specifi (a) Class of must be	turfgrass sod must made available to	t be Maryl the job for	and Certifi reman and	ied. Sod la		
	8	plus or i thicknes torn or i	st be machine cut a minus ¼ inch, at th is must exclude top meven ends will no	e time of c growth ar of be accep	cutting. M nd thatch. stable.	easuremen Broken pa	t for ds and	
	_		d size sections of se					

vertically with a firm grasp on the upper 10 percent of the section. (d) Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival. ___ (e) Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation. ___ (a) During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying ___ (b) Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength.

their own weight and retain their size and shape when suspended

Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots. ___ (c) Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod root sand the underlying soil surface. (d) Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping

and irrigating for any piece of sod within eight hours. ___ (3) Sod Maintenance ___ (a) In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to

prevent wilting.

(b) After the first week, sod watering is required as necessary to maintain adequate moisture content. ___ (c) Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent

cuttings. Maintain a grass height of at least 3 inches unless otherwise ___ d. Note: Use of this information does not preclude meeting all of the requirements of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control - B-4 Vegetative Stabilization.



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greeningurban.com



#	Date	Revisions
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		v Attick I ake Park

Buddy Attick Lake Park Parking Lot

555 CRESCENT ROAD PRINCE GEORGE'S COUNTY GREENBELT, MD

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Drawn By 07.19.2017 G.W. Checked By C.E., N.F.

EROSION & SEDIMENT CONTROL CHECKLIST