VICINITY MAP PROJECT LOCATION dover Park

LOCATION MAP



LATITUDE: N 38° 44' 02" LONGITUDE: W 76° 53' 51" CLIENT: NAME: CORVIAS PRINCE GEORGE'S COUNTY STORMWATER PARTNERS, LLC ADDRESS: 1801 MCCORMICK DRIVE, **SUITE 280** LARGO, MARYLAND 20774 CONTACT: DEEPAK SHARMA EMAIL: SHARMAD@BV.COM

PROPERTY OWNER: NAME: MNCPPC ADDRESS: 6600 KENILWORTH AVE RIVERDALE, MD 20737 ADDRESS: CHEVERLY EAST PARK, N33 6605 OAK STREET HYATTSVILLE MD, 20785

NAME: CHEVERLY MAYOR & TOWN COUNCIL ADDRESS: 6401 FOREST RD CHEVERLY MARYLAND 20785

CHEVERLY EAST PARK OUTFALL AND STREAM **RESTORATION EROSION & SEDIMENT CONTROL** FEMA FIRMETTE GRAPHIC SCALE: 1" = 1000 **DOE CLEAN WATER PARTNERSHIP** PRINCE GEORGE'S COUNTY, MD AERIAL PHOTOGRAPH-PROJECT OVERVIEW



Lambover Constant			TAX ID: 01 ADE ACREAGE TAX ID: 01 ADE ACF TAX ID: 00 ADE
Rrince Geor	ses laboration		ACF TAX ID: 01 ADE ACF TAX ID: 00 ADE ACF TAX ID: 01
APPLICANT: NAME: RES ADDRESS: 53 CONTACT: JC PHONE NUME EMAIL: JMON	367 TELEPHONE ROAI VARRENTON, VA 2018 DEY MONHEIT 3ER: 410-236-4986 HEIT@RES.US	2. 3. 4. 5. 6. 7. 8. 9. 0 10. 11. 7 11. 11.	ADE ACF TAX ID: 01 ADE ACF FLOODPL/ DISTURBE CUT & FIL MAX. CUT EXISTING ZONE WSSC GRID: 204 TAX MAP: 0059 PARCELS: A, B, PG COUNTY STI NO CEMETERIE NO HISTORIC SI COUNTY WATEF COUNTY WATEF COUNTY WATEF NRI: 156-2022 TCPII #: TCP2-17 ENVIRONMENTA SITE IS NO SITE IS NO OUTSIDE THE L

BY: Cpankow

SITE DATA:

FILE NAME:R:\Rescad\Projects\106683-CWP-Cheverly Outfall And SR\ESC\Plan Sheets\106683 - CHEVERLY ESC COVER SHEET.dwg DATE: 10/31/2023 9:03 AM

SITE INFORMATION:

163519 DRESS: 63RD PL. HYATTSVILLE, MD 20785 E: 0.83 AC.+/-

129551 DRESS: HILLSIDE AVE HYATTSVILLE, MD 20785

REAGE: 1.53 AC.+/-086843 DRESS: HILLSIDE AVE HYATTSVILLE, MD 20785

REAGE: 0.69 AC. +/-146084

DRESS: 6607 OAK ST HYATTSVILLE MD, 20785 REAGE: 4.74 AC. +/-086744

DRESS: 6605 OAK ST HYATTSVILLE MD, 20785 REAGE: 0.836 AC. +/-101733

DRESS: OAK ST HYATTSVILLE MD, 20785 REAGE: 0.018 AC. +/-

146068 DRESS: 6607 OAK ST HYATTSVILLE MD, 20785 REAGE: 1.176 AC. +/-

LAIN ACREAGE: 2.92 AC.

ED AREA: 3.26 AC. LL: 1072.12 CY CUT

T/FILL DEPTH: 6.28 FT CUT/ 6.56 FT FILL

: ROS AND RSF-65 4NE06 AND 204NE05

GRID: 00B1

, AND 0209 TREET MAP PAGE: 0066; GRID 00C1

ES EXIST ON OR CONTIGUOUS TO PROPERTY. ITES ON OR IN THE VICINITY OF THE PROPERTY. ERSHED NAME: LOWER BEAVERDAM CREEK RSHED #021402050816

112-96 AND E-025-11 AL INFORMATION:

IOT WITHIN CHESAPEAKE BAY CRITICAL AREA

ES NOT CONTAIN HIGHLY ERODIBLE SOILS ES CONTAIN STEEP SLOPES

VITHIN WATERSHED WITH TMDL FOR SEDIMENT

IOT WITHIN TIER II WATERSHED

DS ARE PRESENT ON SITE R FLOODPLAIN IS PRESENT ON SITE

DPOGRAPHY: SURVEY WITHIN LIMITS OF SURVEY (LOS) OBTAINED AND THOMAS AND ASSOCIATES IN JUNE 2022. CONTOURS LOS ARE FROM PRINCE GEORGE'S COUNTY 2021 DATA.

PROJECT NARRATIVE

THE PURPOSE OF THE CHEVERLY EAST PARK OUTFALL AND STREAM RESTORATION IS TO GENERATE IMPERVIOUS ACRE CREDITS THAT WILL HEL PRINCE GEORGE'S COUNTY MEET MS4/TMDL REQUIREMENTS. THIS PROJEC PART OF THE CLEAN WATER PARTNERSHIP.

THE PROJECT SITE IS LOCATED NEAR 6607 OAK STREET HYATTSVILLE, MD 20

THE PROPOSED STREAM WORK INCLUDES THE DESIGN AND GRADING OF PROPOSED STREAM CHANNELS. THESE STREAM CHANNELS ARE SIZED BASE ON THE HYDROLOGIC AND HYDRAULIC FACTORS INFLUENCING THE WATERSHED. BASED UPON THE APPROPRIATELY SIZED AND DESIGNED CHANNELS, THE PLANFORM AND PROFILE WILL BE ENGINEERED TO CREATE APPROPRIATE RIFFLE-POOL SEQUENCING. ADDITIONALLY, TO PROVIDE HORIZONTAL AND VERTICAL STABILITY, STRUCTURES SUCH AS ROCK CROSS-VANES AND SILLS WILL BE UTILIZED. THE APPROPRIATELY SIZED CHANNELS AND ENGINEERED PLANFORM WILL REDUCE EROSION, THEREFOR REDUCING SEDIMENT AND POLLUTANT LOADING WITHIN THE STREAM.

SEE FULL ESC NARRATIVE ON FSC SHEET 10.

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 periodic on-site evaluations." Signature James Lyons Date<u>5/18/2023</u>

Name(printed) James Lyons TitleCWP Program Admin Ph# 301.278.1493 Firm PG County Dept. of the Environment Complete address 1801 MCCormick Dr #500, Largo, MD 20774

			REDAN	<i>MI</i>			201				
	REFEREN	CE FEMA MAP: 240	33C0142E								
	SHEET	LIST TABLE									
4	SHEET NUMBER	SHEET TITLE									
4	1	COVER SHEE	T					1			
8	2	DRAINAGE AREA	MAP		PRINCE GEORGE'S S	SOIL CONSE	RVATION DISTRICT				
1	3	KEY SHEET			GRADING, EROSIC	ON AND SED	<u>ne</u> Iment control				
8	4	TREE CLEARING	PLAN								
	5	TREE CLEARING F	PLAN								
8	6	TREE TABLE			FSC# 7-24		EXPIRATION DATE	-			
3	7	TREE TABLE			POND (P#)				83		
8	8	ESC PLAN							.; Q		
	9	ESC PLAN						-	O		
1	10	ESC NOTES			DISTRICT SIGNATURE		APPROVAL DATE	-			
1	11	ESC DETAILS	;					-	OB		
	12	ESC DETAILS]	~		
1	13	ESC DETAILS		CONSULT	ANT'S CERTIFIC	CATION					
	14	ESC DETAILS		I CERTIFY THAT	THIS PLAN OF EROSIO	ON AND SE	DIMENT CONTROL		AM SOI		
· · · ·	15	ESC DETAILS			A PRACTICABLE AND W	ORKABLE	PLAN BASED ON MY T THIS PLAN WAS		ATF ATF		
				DESIGNED AND	PREPARED IN ACCOR	DANCE WI	TH THE REQUIREMEN	TS OF	U L		
RESTORATION	ON TECHNICAL PLAN	SET (DOE PERMI			EORGE'S SOIL CONSER	RVATION DI	STRICT AND "STANDA				
29620-2022-0) FOR THE TECHNIC	AL DESIGN. THIS P		HAVE REVIEWE	D THIS EROSION AND	SEDIMENT	CONTROL PLAN WITH	THE	AN		
(FSC#7-24) IS	PROFESSIONAL C	ERTIFICATION.	KOL ONLY.	OWNER/DEVEL	OPER".				μΥ		
HELP	I HEREBY CERTIFY	THAT THESE		SIGNATURE	Dales Willfing		MD LICENSE# <u>52852</u>		EDI EDI		
JECT IS	APPROVED BY ME	LE PREPARED OR E. AND THAT I AM A	DULY	JLY PRINT NAME: BAILEY J. WILFONG DATE 10/31/2023							
	LICENSED PROFE	SSIONAL ENGINEE	R								
	UNDER THE LAWS	OF THE STATE OF ISE NO. 52852. EXF		STANDAR			тс		Χб		
/ID 20785	DATE: 6/14/2024	10E 110: 02002, E/1			NITIAL SOIL DISTURBAN				PAF		
<i>ID 20100</i> .		OF MAD'		PERMANENT	OR TEMPORARY STABI		IUST BE COMPLETED		ЧЧ		
	IN ATE	J. WILL AND		WITHIN:					ЧS		
	100 CS		,	A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL							
DAJED	No. 9	9. L		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							
	Centra		7								
	THE SC	.52852		GRADED A	REAS ON THE PROJEC	T SITE NOT	TUNDER ACTIVE GRADING.				
		ONAL ENTRY					U U U U U U				
	1	0/31/2023									
\ I											
	30% DESIGN REVIE	vv		CHEVER	LY EAST PARK	OUTFA	LL AND STREA	Μ			
EFORE	X	N/A		RESTORA	ATION EROSION	& SED	IMENT CONTR	OL			
				6607 OAK STREE	ET HYATTSVILLE MD, 20	0785 - PRIN	CE GEORGE'S COUNT	TY, MD			
	PERMIT PLAN DESIG	GN REVIEW	PROJEC	T MANAGER:	JM	JOB NUM	BER:		106683		
	Dailey Willymy	5/11/23	DESIGNE	ED:	CD.	DESIGN T	TYPE:		500		
			DRAWN:						E30		
	CONSTRUCTION PL	AN REVIEW			CD	F LAN DA	·⊾.	10/	/31/2023		
	x BRIANA STEPHE	NS 7/25/23									
							PRINCE GEORGE'S COUNTY CORVIAS SOL	LUTIONS			
REVISIONS											
1ST SUBMISSI	1ST SUBMISSION: 7-6-2023										
2ND SUBMISSION: 9-22-2023				HGS, LLC.	A RES COMPANY						
			5367 TI	ELEPHONE ROAD	WARRENTON, VIRGIN	IA 20187	PARTNERSH	I P			
				F. 703.393.40 WW	/W.RES.US						
				JVER	SHEE	. F	SC SHEET	1 OF	16		



	LEGEND:	GRAPH 0'	IIC SCALE: 1" = 150 150' EX. PROPER EX. PROPER EX. SOILS BO EX. MAJOR C EX. MINOR C	300' TY LINE TY ADJACENT DUNDARY CONTOUR ONTOUR	450'	FRINCE GEORGE'S COUNTY CORVIAS SOLUTIONS	PARTNERSHIP
		AP UNIT SYMBOL CdD	EX. IMPERVIO EX. STORM S EX. DRAINAG EX. STREAM EX. FOREST EX. FOREST EX. TIME OF COILS WITHIN THE MAP UNIT NAME CHRISTIANA- DOWNER- URBAN LAND COMPLEX, 5 TO 15 PERCENT SLOPES RUSSETT-	OUS SURFACE SEWER SE DIVIDE ED WETLAND CONCENTRATI DRAINAGE A HYDROLOGIC SOIL GROUP	ON AREA ERODIBILITY NO		HGS, LLC. A RES COMPANY 5367 TELEPHONE ROAD, WARRENTON, VIRGINIA 2018 P: 703.393.4844 F: 703.393.2934 WWW.RES.US
		RuB UdaF	CHRISTIANA- URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES UDORTHENTS, HIGHWAY, 0 TO 65	D 	NO	STREAM CONTROL OUNTY	
Tim w Segments eet Flow allow accentrated Flow e Flow annel Flow	Provide the segment of the segment o	ation Flow 100 25	Tota	Path s (Ft.) L 230 1039 1039 1 ILength I	ength (Ft.) 100 257 1840 1188 3385	CHEVERLY EAST PARK OUTFALL AND RESTORATION EROSION & SEDIMENT (CLIENT: CORVIAS PRINCE GEORGE'S C STORMWATER PARTNERS, LCC	DRAINAGE AREA MA PRINCE GEORGE'S COUNTY, M
						STAMP/SEAL: PROFESSIONAL CE I HEREBY CERTIFY DOCUMENTS WERE APPROVED BY ME, DULY LICENSED PR ENGINEER UNDER THE STATE OF MAR NO. 52852, EXPIRAT 6/14/2024	RTIFICATION. THAT THESE PREPARED OR AND THAT I AM A OFESSIONAL THE LAWS OF RYLAND, LICENSE TON DATE: MAR WICH AND 2852 NAL ENDITION 10/31/202 EW N/A Date IGN REVIEW
STANE FOLLOWII STABILIZA A.) THE DITCH VERTIC B.) SEV PROJE NOTES: 1. TOPOC ON A SUI CONTOU 2. LINEW INTERVA 3. A WET INC. ON A 4. PROPE OTHER P 5. ALL EF ACCORD SPECIFIC	DARD STABILIZATION NG INITIAL SOIL DISTURBANC ATION MUST BE COMPLETED REE (3) CALENDAR DAYS AS ES, PERIMETER SLOPES, AND CAL (3:1); AND VEN (7) CALENDAR DAYS AS ECT SITE NOT UNDER ACTIVE GRAPHIC INFORMATION AND RVEY PERFORMED BY A. MO IR INTERVAL IS ONE (1) FOOT ORK OUTSIDE THE SURVEY I L IS TWO (2) FEET. LAND DELINEATION WAS PEI JUNE 14, 2022. ERTY LINES ADJACENT TO W PROPERTY LINES ARE BASED ROSION AND SEDIMENT CON DING TO DESIGN SPECIFICATION CATIONS FOR SOIL EROSION	DN NOT CE OR RE-I WITHIN: TO THE SLOP TO ALL SLOP TO ALL SLOP TO ALL OT GRADING LINE WOR RTON AND LINE WOR RTON AND C SECORMED ORK AREA ON AVAIL TROL MEAS ONS PROV & SEDIMEI	E DISTURBANCE, PERI PES STEEPER THAN HER DISTURBED OR K SHOWN WITHIN TH THOMAS AND ASSO BASED ON AVAILABL AND GPS LOCATED WERE SURVEYED I ABLE GIS DATA. SURES ARE TO BE II /IDED IN THE "2011 M NT CONTROL" UNLE	MANENT OR TE IMETER DIKES, 3 HORIZONTAL CONTAL CONTES (AMT) E GIS DATA. CO BY COASTAL R N JUNE 2022 BY NSTALLED AND MARYLAND STA SS OTHERWISE	MPORARY SWALES, TO 1 AS ON THE ITS IS BASED IN JUNE 2022. ONTOUR ESOURCES Y AMT. ALL MAINTAINED NDARDS AND E NOTED.	Signature CONSTRUCTION P B Signature REVISIONS: 1ST SUBMISSION: 7 2ND SUBMISSION: PROJECT MANAGE DESIGNED: DRAWN: JOB NUMBER: DESIGN TYPE: DATE: SHEET NO: FSC SHEE	Date LAN REVIEW 7/25/23 Date -6-2023 9-22-2023 9-22-2023 R: JM CD CD 106683 ESC 10/31/2023



TREE CLEARING PLAN SHEET FSC SHEET 4 ESC PLAN SHEET FSC SHEET 8

> TREE CLEARING PLAN SHEET FSC SHEET 5 ESC PLAN SHEET FSC SHEET 9



ON A SURVEY PERFORMED BY A. MORTON AND THOMAS AND ASSOCIATES (AMT) IN JUNE 2022. CONTOUR INTERVAL IS ONE (1) FOOT. 2. LINEWORK OUTSIDE THE SURVEY LIMITS IS BASED ON AVAILABLE GIS DATA. CONTOUR

PROJECT MANAGER:

SHEET NO: FSC SHEET 30F16

CD

106683

10/31/2023

ESC

ESIGNED:

JOB NUMBER:

DESIGN TYPE:

DRAWN:

DATE:

INTERVAL IS TWO (2) FEET. 3. A WETLAND DELINEATION WAS PERFORMED AND GPS LOCATED BY COASTAL RESOURCES INC. ON JUNE 14, 2022. 4. PROPERTY LINES ADJACENT TO WORK AREA WERE SURVEYED IN JUNE 2022 BY AMT. ALL

OTHER PROPERTY LINES ARE BASED ON AVAILABLE GIS DATA. 5. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED ACCORDING TO DESIGN SPECIFICATIONS PROVIDED IN THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL" UNLESS OTHERWISE NOTED.





	GRAPHIC SCALE: 1" = 30' 0 30' 60' 90' LEGEND: EX. PROPERTY LINE EX. PROPERTY ADJACENT EX. MAJOR CONTOUR EX. MINOR CONTOUR EX. MINOR CONTOUR EX. SANITARY SEWER LOS EX. SOILS BOUNDARY EX. FREE GREATER THAN 11" DBH Image: Control of the set of t		5367 TELEPHONE ROAD, WARRENTON, VIRGINIA 20187 P: 703.393.4844 F: 703.393.2934 WWW.RES.US
	PR. BANKFULL BENCH PR. CONSTRUCTION ENTRANCE PR. CONSTRUCTION ACCESS	CHEVERLY EAST PARK OUTFALL AND STREAM RESTORATION EROSION & SEDIMENT CONTROL CLIENT: CORVIAS PRINCE GEORGE'S COUNTY STORMWATER PARTNERS, LCC	TREE CLEARING PLAN PRINCE GEORGE'S COUNTY, MD
202 ©ST-205 206 206 207	TT-209	STAMP/SEAL: PROFESSIONAL CEI I HEREBY CERTIFY DOCUMENTS WERE APPROVED BY ME, DULY LICENSED PR ENGINEER UNDER T THE STATE OF MAR NO. 52852, EXPIRAT 6/14/2024	RTIFICATION. THAT THESE PREPARED OR AND THAT I AM A OFESSIONAL THE LAWS OF YLAND, LICENSE ION DATE: MARY WICH THE SALE NUMBER 2852 VAL ENGINE VAL ENGINE N/A Date IGN REVIEW
STANDAF FOLLOWING II STABILIZATIO A.) THREE DITCHES, F VERTICAL B.) SEVEN PROJECT S NOTES: 1. TOPOGRA ON A SURVI CONTOUR I 2. LINEWOR INTERVAL IS 3. A WETLAN INC. ON JUN 4. PROPERT OTHER PRO 5. ALL EROS ACCORDING AND SPECIN	RD STABILIZATION NOTE NITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY N MUST BE COMPLETED WITHIN: (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 (3:1); AND (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE SITE NOT UNDER ACTIVE GRADING. APHIC INFORMATION AND LINE WORK SHOWN WITHIN THE SURVEY LIMITS IS BASED EY PERFORMED BY A. MORTON AND THOMAS AND ASSOCIATES (AMT) IN JUNE 2022. NTERVAL IS ONE (1) FOOT. K OUTSIDE THE SURVEY LIMITS IS BASED ON AVAILABLE GIS DATA. CONTOUR 5 TWO (2) FEET. ND DELINEATION WAS PERFORMED AND GPS LOCATED BY COASTAL RESOURCES IE 14, 2022. Y LINES ADJACENT TO WORK AREA WERE SURVEYED IN JUNE 2022 BY AMT. ALL PPERTY LINES ARE BASED ON AVAILABLE GIS DATA. SION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED B TO DESIGN SPECIFICATIONS PROVIDED IN THE "2011 MARYLAND STANDARDS FICATIONS FOR SOIL EROSION & SEDIMENT CONTROL" UNLESS OTHERWISE	Signature CONSTRUCTION P B Signature REVISIONS: 1ST SUBMISSION: 7 2ND SUBMISSION: 7 2ND SUBMISSION: 7 2ND SUBMISSION: 7 DESIGNED: DRAWN: JOB NUMBER: DESIGN TYPE: DATE: SHEET NO: FSC SHEEE	Date LAN REVIEW 7/25/23 Date -6-2023 9-22-2023 8: JM CD CD 106683 ESC 10/31/2023 CT 5OF 16

ID	SPECIES	DBH	CONDITION	NOTES	PROPOSED STATUS	ID	SPECIES	DBH	CONDITION	NOTES	PROPOSED STATUS	ID	SPECIES	DBH	CONDITION	NOTES	PROPOSED STATUS
1	PLATANUS OCCIDENTALIS	17.5	GOOD		REMAIN	68	QUERCUS VELUTINA	16	FAIR	LEANING, VINES	REMAIN	133	LIRIODENDRON TULIPIFERA	19	FAIR	REDUCED CANOPY	REMAIN
2	QUERCUS ALBA	29	GOOD	SOME VINES	REMAIN	69	QUERCUS ALBA	24	FAIR	DEAD BRANCHES	REMAIN	134	QUERCUS RUBRA	28	FAIR	LEANING, VINES	REMAIN
3	LIQUIDAMBAR STYRACIFLUA	17	GOOD		REMOVE	70 71	QUERCUS ALBA	16	GOOD		REMOVE REMAIN	135	LIRIODENDRON	25	FAIR	VINES, SOME TRUNK	REMAIN
4	LIQUIDAMBAR STYRACIFLUA	16	FAIR	VINES, DEAD BRANCHES	REMOVE	72	LIQUIDAMBAR	20	FAIR	BROKEN BRANCHES	REMAIN	136	LIRIODENDRON	23	POOR	SEVERE TRUNK ROT,	REMOVE
5	FAGUS GRANDIFOLIA	17.5	FAIR	EXPOSED ROOTS	REMOVE	73	QUERCUS ALBA	18, 17	FAIR	VINES, UNDERMINED ROOTS	REMAIN	150	TULIPIFERA LIQUIDAMBAR	23	FOOR	LEANING, DYING	REMOVE
6	PLATANUS OCCIDENTALIS	16	GOOD		REMAIN	74	QUERCUS ALBA	16	FAIR	VINES	REMAIN	137	STYRACIFLUA	26	FAIR		DEMOVE
7		19	DEAD		REMOVE	75	QUERCUS ALBA	22	FAIR	VINES	REMAIN	138	QUERCUS RUBRA	34	FAIR	UNDERMINED	KLIVIOVL
8	TULIPIFERA	19	GOOD	SOME VINES		76	STYRACIFLUA	18	GOOD		DEMAIN	139	LIRIODENDRON TULIPIFERA	24	GOOD		REMOVE
9	PLATANUS OCCIDENTALIS	15	GOOD	SOME VINES	REMOVE	77	STYRACIFLUA	16	GOOD	SOME VINES	REIVIAIN	140	LIRIODENDRON TULIPIFERA	25	FAIR	VINES, REDUCED CANOPY	REMAIN
10	LIRIODENDRON TULIPIFERA	17	FAIR	EXPOSED ROOTS	REMOVE	78	QUERCUS ALBA	20	FAIR	LEANING	REMAIN	141	ACER RUBRUM	17, 7	FAIR	MANY VINES	REMAIN
11	SASSAFRAS ALBIDUM	15	FAIR	EXPOSED ROOTS	REMOVE	79	STYRACIFLUA	17	FAIR	VINES	DEMAIN	142	LIRIODENDRON TULIPIFERA	23.5	POOR	DYING	REMAIN
12	NYSSA SYLVATICA	16	FAIR	VINES	REMOVE	80	TULIPIFERA	30, 23	GOOD	SOME VINES		143	LIQUIDAMBAR STYRACIFLUA	15.5	FAIR	VINES, REDUCED CANOPY	REMAIN
13	FAGUS GRANDIFOLIA	23	GOOD		REMOVE	81 82	PINUS TAEDA	22	FAIR	DEAD BRANCHES	REMAIN REMAIN	144	LIRIODENDRON TUI IPIFERA	23.5	FAIR	VINES, REDUCED CANOPY	REMAIN
14	QUERCUS ALBA	17	FAIR	DIEBACK		83	LIRIODENDRON	23	GOOD		REMAIN	145		20.5	POOR	OVERTAKEN BY VINES,	REMAIN
15	NYSSA SYLVATICA LIQUIDAMBAR	18	GOOD		REMOVE	<u>о</u> л	LIQUIDAMBAR	15	POOR	MANY VINES, DEAD	REMAIN	146	QUERCUS ALBA	21	DEAD	REDUCED CANOPY	REMOVE
16	STYRACIFLUA	18	FAIR	VINES DEAD BRANCHES	REMOVE	04	STYRACIFLUA LIQUIDAMBAR	15	FOOR	BRANCHES MANY VINES. DEAD	REMAIN	147	LIQUIDAMBAR STYRACIFI UA	31.5	FAIR	VINES, REDUCED CANOPY	REMOVE
17		24	FAIR	SOME VINES, DEAD	REMAIN	85	STYRACIFLUA	16	POOR	BRANCHES		148	LIQUIDAMBAR	17	POOR	MANY VINES, REDUCED	REMAIN
10		24	DEAD	BRANCHES STANDING DEAD	REMAIN	86	LIQUIDAMBAR	18	FAIR		REMAIN	149	LIRIODENDRON	20	POOR	MANY VINES, REDUCED	REMAIN
20	QUERCUS ALBA	35	FAIR	VINES, DEAD BRANCHES	REMAIN	07	STYRACIFLUA LIQUIDAMBAR	10			REMAIN	150	TULIPIFERA ACER RUBRUM	20.5, 7	FAIR	CANOPY VINES, REDUCED CANOPY	REMAIN
21		24	DEAD	STANDING DEAD	REMOVE	88	STYRACIFLUA	16	FAIR	VINES, DEAD BRANCHES	DEMAIN	151	LIRIODENDRON	28	FAIR	MANY VINES, REDUCED	REMOVE
22	FAGUS GRANDIFOLIA	19	FAIR	VINES	REMOVE	89	TULIPIFERA	21	GOOD		REIVIAIN	155	LIQUIDAMBAR	18	FAIR	DIFBACK VINES	REMAIN
24	QUERCUS ALBA	37	POOR	MANY VINES, LEANING	REMAIN	90	LIQUIDAMBAR STYRACIFLUA	15	GOOD		REMAIN	155	STYRACIFLUA	10		DIEBACK, MANY VINES,	REMAIN
25	LIQUIDAMBAR STYRACIFLUA	17	POOR	VINES, STRESSED	REMOVE	91	LIQUIDAMBAR STYRACIFLUA	17	GOOD	SOME VINES	REMAIN	156	QUERCUS RUBRA	15.5	POOR	STRESSED, UNDERMINED	
26	LIQUIDAMBAR STYRACIFLUA	17	FAIR	UNDERMINED ROOTS	REMOVE	92	ACER RUBRUM	31, 5, 3	GOOD		REMAIN	157	ACER RUBRUM	24	FAIR	VINES, LEANING	REIVIAIN
27	QUERCUS MONTANA	16	FAIR	LEANING	REMOVE	93 94	QUERCUS RUBRA	29	GOOD		REMAIN	158	LIQUIDAMBAR STYRACIFLUA	26.5	POOR	ROOT ROT, DYING, DEAD LIMBS	REMAIN
28	LIQUIDAMBAR STYRACIFLUA	24	FAIR	VINES, DEAD BRANCHES	REMAIN	95	QUERCUS ALBA	16	FAIR	DEAD BRANCHES	REMAIN	159	LIQUIDAMBAR STYRACIFLUA	20.5	POOR	DYING, MANY VINES	REMAIN
29	QUERCUS ALBA	23	GOOD	SOME VINES	REMAIN	96	QUERCUS ALBA	20, 14	FAIR	VINES, UNDERMINED	REMOVE	160	LIQUIDAMBAR	27	FAIR	VINES	REMAIN
30	QUERCUS FALCATA	17	FAIR	DEAD BRANCHES, LEANING	REMAIN	97	QUERCUS ALBA	20	FAIR	VINES	REMOVE REMOVE	161	LIQUIDAMBAR	23.5	FAIR	DEAD BRANCHES	REMAIN
31	STYRACIFLUA	21	FAIR	VINES, BROKEN BRANCH	REMOVE	98	TULIPIFERA	24	FAIR	VINES	REMAIN	162	LIQUIDAMBAR	24	6000		REMAIN
32	STYRACIFLUA	24	GOOD			99	STYRACIFLUA	17	POOR	MANY VINES, DYING		102	STYRACIFLUA	24	GOOD	FEW BROKEN BRANCHES	REMAIN
33	LIQUIDAMBAR STYRACIFLUA	26	FAIR	VINES, DEAD BRANCH	REMOVE	100	LIRIODENDRON TULIPIFERA	22	POOR	MANY VINES	REMAIN	163	STYRACIFLUA	19	FAIR	REDUCED CANOPY, VINES	
34	QUERCUS RUBRA	17	POOR	LEANING, VINES	REMOVE	101		18	DEAD	STANDING DEAD	REMOVE	164	QUERCUS PHELLOS	33, 14	GOOD	FEW BROKEN BRANCHES	REIMAIN
36	QUERCUS ALBA	18	FAIR	VINES	REMAIN	102	ULMUS AMERICANA	19.5	GOOD		REMAIN	165	QUERCUS ALBA	29.5	FAIR	MANY VINES	REMAIN
37	QUERCUS ALBA	18	GOOD	VINES	REMAIN	104	UNKNOWN	17.5	DEAD		REMOVE	166	LIQUIDAMBAR STYRACIFLUA	18	FAIR	LEANING, REDUCED CANOPY	REMAIN
38	QUERCUS STELLATA	17 32	FAIR	LEANING MANY VINES	REMAIN	105 106	QUERCUS MONTANA	22	GOOD DFAD		REMOVE REMOVE	167	LIQUIDAMBAR	16	FAIR	REDUCED CANOPY	REMAIN
40	QUERCUS ALBA	21	FAIR	VINES	REMOVE	107	QUERCUS ALBA	23	GOOD		REMOVE	168	ACER RUBRUM	19	FAIR	REDUCED CANOPY, LEANING	REMAIN
41	QUERCUS ALBA	20	FAIR		REMOVE	108	FAGUS GRANDIFOLIA	17.5	POOR	SEVERE TRUNK ROT, UNDERMINED	REMOVE	160	LIQUIDAMBAR	16 15	EAIR		REMAIN
42	LIQUIDAMBAR	17	FAIR	VINES	REMOVE	109	QUERCUS ALBA	28	GOOD	FEW DEAD BRANCHES	REMAIN	170	ACER RUBRUM	19, 16	GOOD		REMAIN
43	STYRACIFLUA	15	FAIR	LEANING, DEAD BRANCHES	REMOVE	110	NYSSA SYLVATICA	18	POOR	REDUCED CANOPY, TRUNK ROT AT BASE	REMAIN	171	LIQUIDAMBAR	17	GOOD		REMAIN
45	QUERCUS ALBA	17	POOR	MANY VINES	REMOVE	111	QUERCUS ALBA	21	GOOD		REMOVE	172	LIQUIDAMBAR	15 5	POOP		REMAIN
46	LIQUIDAMBAR STYRACIFLUA	17	GOOD		REMOVE	112	ACER RUBRUM	19	POOR	SEVERE TRUNK ROT	REMAIN	172	STYRACIFLUA LIRIODENDRON	15.5	FOOR		REMAIN
47	QUERCUS ALBA	22	FAIR	VINES, DEAD BRANCHES	REMAIN	114	ACER RUBRUM	17	FAIR	UNDERMINED	REMAIN	173		15.5	FAIR	KEDULED LANUPY, VINES	RENAIN
48	QUERCUS ALBA	17	FAIR	DEAD BRANCHES	REMAIN REMOVE	115	LIQUIDAMBAR STYRACIFLUA	18	GOOD		REMAIN	174	TULIPIFERA	22.5	POOR	DIEBACK, VINES	
49	STYRACIFLUA	17	GOOD			116	LIRIODENDRON TULIPIFERA	17	GOOD		REMOVE	175	LIQUIDAMBAR STYRACIFLUA	23	FAIR	VINES	KEMAIN
50	QUERCUS ALBA	20	GOOD	DEAD BRANCH	REMAIN	117	QUERCUS ALBA	25	GOOD		REMOVE	176	LIQUIDAMBAR STYRACIFLUA	17	FAIR	DIEBACK, REDUCED CANOPY	REMAIN
52	LIQUIDAMBAR	17	POOR	TRUNK ROT, DEAD	REMOVE	118 119	FAGUS GRANDIFOLIA	23.5	FAIR GOOD	LEANING, UNDERMINED	REMOVE REMAIN	177	LIQUIDAMBAR	20	POOR	SEVERE TRUNK DAMAGE AND ROT. DYING	REMAIN
53	QUERCUS RUBRA	21	FAIR	DEAD BRANCHES	REMOVE	120	ACER RUBRUM	16	GOOD		REMAIN	178	LIQUIDAMBAR	22	FAIR	TRUNK ROT AT BASE	REMAIN
54	QUERCUS VELUTINA	16	GOOD		REMOVE	121	LIRIODENDRON TULIPIFERA	24	GOOD		REMAIN	170		19.5,	FUID		REMAIN
55 56	QUERCUS ALBA	17 22	GOOD FAIR	DEAD BRANCHES	REMOVE	122	ACER RUBRUM	15.5	POOR	VINES, DEAD LEADER	REMAIN	100		16			REMAIN
57	QUERCUS VELUTINA	26	GOOD		REMOVE	123	QUERCUS ALBA	28	GOOD		REMOVE	180		31	GOOD		REMAIN
58	QUERCUS ALBA	26	GOOD		REMOVE	124	LIRIODENDRON TULIPIFERA	26.5	GOOD		REMOVE	181	QUERCUS ALBA	19.5	FAIR	REDUCED CANOPY	
		10			REMOVE	125	LIRIODENDRON TUII IPIFFRA	23.5	FAIR	REDUCED CANOPY	REMOVE	182	QUERCUS ALBA	32	FAIR	VINES, FEW DEAD BRANCHES	KEMAIN
59		19	GUUD		REMAIN	126	QUERCUS ALBA	17	FAIR		REMOVE	183	QUERCUS ALBA	22	GOOD		REMAIN
60	CARYA GLABRA	15	GOOD			127	LIRIODENDRON	15	FAIR	VINFS IN ΓΔΝΟΡΥ	REMAIN	184	QUERCUS ALBA	20	FAIR	VINES, SOME DEAD BRANCHES	REMAIN
61 62	QUERCUS ALBA	15 16	FAIR FAIR	DEAD BRANCHES	REMAIN	120	TULIPIFERA LIRIODENDRON			MANY VINES, REDUCED	REMAIN	185	QUERCUS ALBA	28	GOOD	Browerles	REMAIN
63	QUERCUS ALBA	15	GOOD		REMOVE	128		33	FAIR		REMAIN	186	QUERCUS STELLATA	15, 10	FAIR	REDUCED CANOPY	REMOVE
64	QUERCUS RUBRA	15	FAIR	LEANING	REMOVE	129	TULIPIFERA	26	FAIR			187	LIQUIDAMBAR STYRACIFI UA	15	GOOD		REMOVE
65	QUERCUS ALBA	16	GOOD		REMOVE	130	TULIPIFERA	29.5	FAIR	CANOPY		188		17	FAIR	LEANING, REDUCED CANOPY	REMAIN
66	QUERCUS ALBA	21	FAIR	DEAD BRANCHES		131	LIQUIDAMBAR STYRACIFLUA	18.5	FAIR	MANY VINES, REDUCED CANOPY	REMAIN	189		21	GOOD		REMAIN
67	QUERCUS VELUTINA	21	GOOD		REMOVE	132	LIRIODENDRON TULIPIFERA	18.5	POOR	MOSTLY DEAD	REMAIN		IULIPIFERA				
						I			,]						

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DATE:10/31/2023 9:08 AM

BY:Cpankow

PROPOSED STATUS	ID	SPECIES	DBH	CONDITION	NOTES	PROPOSED STATUS
REMAIN	190	QUERCUS ALBA	32	GOOD		REMAIN
REMAIN	191	QUERCUS FALCATA	19	FAIR	REDUCED CANOPY	REMOVE
	192	QUERCUS FALCATA	17	FAIR	REDUCED CANOPY, LEANING	REMAIN
REMOVE	193	NYSSA SYLVATICA	18, 16, 14	GOOD		REMAIN
REMOVE	194	ACER RUBRUM	23	GOOD		REMOVE
REMOVE	195	ACER RUBRUM	19	FAIR	LEANING, TRUNK DAMAGE	
	196		22.5	FAIR	VINES, REDUCED CANOPY	
REMOVE	197	QUERCUS FALCATA	19	FAIR	VINES	
REMAIN	198	QUERCUS ALBA	17.5, 15.5	GOOD		REMOVE
REMAIN	199	QUERCUS ALBA	20	FAIR	BRANCHES	REIVIAIN
REMAIN	200	QUERCUS ALBA	21.5	FAIR	REDUCED CANOPY	REMAIN
	201	QUERCUS FALCATA	19.5	FAIR	REDUCED CANOPY, LEANING	REMAIN
REMAIN	202	QUERCUS ALBA	19	FAIR	REDUCED CANOPY	REMAIN
REMAIN	203	QUERCUS ALBA	22.5	GOOD		REMAIN
REMAIN	204	QUERCUS ALBA	16.5	FAIR	VINES, REDUCED CANOPY	REMAIN
REMOVE	205	QUERCUS PHELLOS	33.5	GOOD	FEW DEAD BRANCHES	REMAIN
REMOVE	206	LIQUIDAMBAR STYRACIFLUA	19	FAIR	REDUCED CANOPY	REMAIN
REMAIN	207	LIQUIDAMBAR STYRACIFLUA	17.5	FAIR	REDUCED CANOPY	REMAIN
REMAIN	208	ACER RUBRUM	15.5	FAIR	REDUCED CANOPY, LEANING	REMAIN
	209	QUERCUS PALUSTRIS	32.5	FAIR	DIEBACK, REDUCED CANOPY, VINES	REMAIN
	210	QUERCUS ALBA	30	FAIR	REDUCED CANOPY	REMAIN
REIVIOVE	211	LIQUIDAMBAR	20	EAID	UNDERMINED, REDUCED	REMAIN
REMAIN		STYRACIFLUA	26	FAIR	CANOPY	
REMAIN	212	LIQUIDAMBAR STYRACIFLUA	22	FAIR	VINES	REMAIN
	213	QUERCUS ALBA	37.5	GOOD		REMAIN
REMAIN	214	QUERCUS COCCINEA	38	FAIR	VINES, DEAD BRANCHES	REMAIN
REMAIN	152 A	QUERCUS ALBA	29	GOOD		REMAIN
REMAIN	152 B	ACER RUBRUM	18	FAIR	REDUCED CANOPY	REMAIN
REMAIN	153 A	QUERCUS MONTANA	19.5	DEAD		REMOVE
REMAIN	153 B	ACER RUBRUM	17	FAIR	VINES	REMAIN
REMAIN	154 A	QUERCUS ALBA	33.5	FAIR	MANY VINES IN CANOPY.	REMAIN
REMAIN	154 B	LIQUIDAMBAR STYRACIFLUA	18	FAIR	DEAD BRANCHES	REMAIN
REMAIN	215	QUERCUS FALCATA	12.7	FAIR		REMOVE
	216	QUERCUS STALLATA	11	FAIR		REMAIN
KEMAIN	217	QUERCUS FALCATA	13.2	FAIR		REMAIN
REMAIN	218 A	QUERCUS STALLATA	15.1	FAIR		REMAIN
REMAIN	218 B	QUERCUS ALBA	11.1	GOOD		KEMOVE
	219	QUERCUS STALLATA	13.0	FAIR		REMAIN
KEMAIN	220	QUERCUS RUBES	15.1	FAIR		REMAIN
REMAIN	221	QUERCUS RUBRA	12.5	GOOD		REMAIN
	222	CARYA GALBRAITH	12.8	GOOD		REMAIN
REMAIN	223	LIQUIDAMBAR STYRACUFLUA	14.1	FAIR		REMAIN
	224	LIQUIDAMBAR STYRACUFLUA	11.7	FAIR		REMAIN
KEMAIN	225	ACRE RUBRUM	13.1	FAIR		REMAIN
REMAIN	226	ACRE RUBRUM	12.3	POOR		REMAIN
	227	LIRIODENDRON TULIPIFERA	14.7	GOOD		REMOVE
REMAIN	228	QUERCUS ALBA	15.5	FAIR		REMAIN
REMAIN	229	QUERCUS ALBA	23.9	GOOD		REMAIN
	230	LIRIODENDRON TULIPIFERA	27.4	GOOD		REMAIN
REMAIN	231 232	QUERCUS FALCATA	14.1 15.7	FAIR FAIR		REMAIN REMAIN
REMAIN	A 232	STYRACUFLUA QUERCUS ALBA	19.5	FAIR		REMAIN
REMAIN	B					



ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 52852, EXPIRATION DATE: 6/14/2024 OF MARI

STATES

52852.

``10/31/202

N/A

Date

5/11/23 Date

7/25/23

Date

ONAL

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

NOTES:

1. TOPOGRAPHIC INFORMATION AND LINE WORK SHOWN WITHIN THE SURVEY LIMITS IS BASED ON A SURVEY PERFORMED BY A. MORTON AND THOMAS AND ASSOCIATES (AMT) IN JUNE 2022. CONTOUR INTERVAL IS ONE (1) FOOT.

2. LINEWORK OUTSIDE THE SURVEY LIMITS IS BASED ON AVAILABLE GIS DATA. CONTOUR INTERVAL IS TWO (2) FEET.

3. A WETLAND DELINEATION WAS PERFORMED AND GPS LOCATED BY COASTAL RESOURCES INC. ON JUNE 14, 2022. 4. PROPERTY LINES ADJACENT TO WORK AREA WERE SURVEYED IN JUNE 2022 BY AMT. ALL

OTHER PROPERTY LINES ARE BASED ON AVAILABLE GIS DATA. 5. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED

ACCORDING TO DESIGN SPECIFICATIONS PROVIDED IN THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL" UNLESS OTHERWISE NOTED.

Signature CONSTRUCTION PLAN REVIEW Brost Signature

Dailer Willymy

PERMIT PLAN DESIGN REVIEW

30% DESIGN REVIEW

Signature

REVISIONS: 1ST SUBMISSION: 7-6-2023

2ND SUBMISSION: 9-22-2023

PROJECT MANAGER:	JM
DESIGNED:	CD
DRAWN:	CD
JOB NUMBER:	106683
DESIGN TYPE:	ESC
DATE:	10/31/2023
SHEET NO:	
FSC SHEET	60F16



ID	SPECIES	DBH	CONDITION	NOTES	PROPOSED STATUS	
233	LIQUIDAMBAR STYRACUFLUA	15.6; 18.3	GOOD		REMAIN	
234	LIQUIDAMBAR STYRACUFLUA	23.1	POOR		REMAIN	
235	ACER RUBRUM	13.8	GOOD		REMAIN	
236	QUERCUS PHELLOS	18.8	FAIR		REMAIN	
237	QUERCUS FALCATA	17.5	FAIR		REMAIN	
239	QUERCUS ALBA	15.4	FAIR		REMAIN	
240	QUERCUS ALBA	11.3	GOOD		REMOVE	2018
241	STYRACUFLUA	11.6	GOOD			
242	QUERCUS RUBRA	13.2	FAIR		REMOVE	4, VIR 1, VIR
244A	QUERCUS ALBA	11.9	GOOD		REMOVE	OMP A COMPA
244B	QUERCUS ALBA	11.9 13.2	GOOD		REMOVE	RES C ARRE ARRES.I
245	QUERCUS FALCATA	13.2	GOOD		REMOVE	C. A F 40, W.W.
247	QUERCUS ALBA	12.4	POOR		REMOVE	35, LL 1333, 12 133333
248 249	QUERCUS ALBA	13.7	POOR		REMOVE	HON
250		11.2	GOOD		REMOVE	
251	QUERCUS ALBA	13.6	GOOD		REMAIN	5367 .
252	MORUS ALBA	14.8	POOR		REMOVE	
253	LIRIODENDRON	11.2	POOR			₹J
254	TULIPIFERA	13.2	GOOD		REMOVE	A R F
255	STYRACUFLUA	11.5	FAIR		REMOVE	
256	LIQUIDAMBAR STYRACUFLUA	14.3; 13.5	FAIR		REMOVE	
257	LIQUIDAMBAR STYRACUFLUA	12	POOR		REMAIN	
258	QUERCUS ALBA	15	FAIR		REMAIN	L Ξ Ξ Ω Ω Π Ι
259	LIRIODENDRON	14.5			REMOVE	OU SL
260		12.0	POOR		REMOVE	
262	LIQUIDAMBAR	14 7	POOR		REMAIN	
263	QUERCUS ALBA	14	POOR		REMOVE	жолс Останов С
264	ACER RUBRUM	11	POOR		REMOVE	
265		14.1	FAIR		REMAIN	
266	STYRACUFLUA	13.7	POOR		REMOVE	
267	LIRIODENDRON TULIPIFERA	11.6	POOR		REMOVE	
268		15.2	POOR		REMOVE	PF STORE
209	FAGUS GRANDIFOLIA	11.9	POOR		REMOVE	
271	LIQUIDAMBAR	13.1	FAIR		REMOVE	
272	QUERCUS PALUSTRIS	12.2	FAIR		REMAIN	с Ж С
273	QUERCUS PRINUS	11.4	FAIR			
274	ACER RUBRUM	11.2	GOOD		REMAIN	STAMP/SEAL: PROFESSIONAL CERTIFICATION.
276	PRUNUS SEROTINA	11.4	POOR		REMAIN	DOCUMENTS WERE PREPARED OR
277	QUERCUS ALBA	11.7	FAIR		REMAIN	DULY LICENSED PROFESSIONAL
278	STYRACUFLUA	17.5	GOOD		REMAIN	THE STATE OF MARYLAND, LICENSE NO. 52852, EXPIRATION DATE:
279	QUERCUS PALUSTRIS	12.2	POOR		REMAIN	6/14/2024 OF MARY
281		17.3	FAIR		REMAIN	S. H. J. WILL THE
282	ACER SACCHARINUM	11.2	FAIR		REMOVE	Daula Vilun
283	LIQUIDAMBAR STYRACUFLUA	12	POOR		REMAIN	52852
						10/31/2023
						30% DESIGN REVIEW
						Signature Date
						Dermit PLAN DESIGN REVIEW Dailing Wilfing 5/11/23
	ST		STABIL 17	ΔΤΙΟΝ ΝΟΤΕ		Signature Date
	FOLL			RBANCE OR RE-DISTURBANCE, PERMANENT C	OR TEMPORARY	CONSTRUCTION PLAN REVIEW
	A	.) THREE (3)	CALENDAR DAY	/S AS TO THE SURFACE OF ALL PERIMETER D	IKES, SWALES,	Signature T/25/23
	D V	ÍTCHES, PÉR ERTICAL (3:1	IMETER SLOPE); AND	S, AND ALL SLOPES STEEPER THAN 3 HORIZO	ONTAL TO 1	REVISIONS: 1ST SUBMISSION: 7-6-2023
	B) SEVEN (7)		'S AS TO ALL OTHER DISTURBED OR GRADED	AREAS ON THE	
		ES:				ZND SUBMISSION: 9-22-2023
	1. ON	TOPOGRAPH	IIC INFORMATIC PERFORMED B	ON AND LINE WORK SHOWN WITHIN THE SURV Y A. MORTON AND THOMAS AND ASSOCIATES	'EY LIMITS IS BASED (AMT) IN JUNE 2022.	
	CC 2.	NTOUR INTE	ERVAL IS ONE (OUTSIDE THE SU	1) FOOT. JRVEY LIMITS IS BASED ON AVAILABLE GIS DA	TA. CONTOUR	PROJECT MANAGER [.] IM
	IN [−] 3. /	TERVAL IS T	WO (2) FEET. DELINEATION V	VAS PERFORMED AND GPS LOCATED BY COAS	STAL RESOURCES	DESIGNED: CD
	IN0 4.	C. ON JUNE 1 PROPERTY L	4, 2022. INES ADJACEN	T TO WORK AREA WERE SURVEYED IN JUNE 2	2022 BY AMT. ALL	JOB NUMBER: 106683
	5.		N AND SEDIMEN	DAGED ON AVAILABLE GIG DATA. NT CONTROL MEASURES ARE TO BE INSTALLE DIFICATIONS PROVIDED IN THE "2044 MADY" AN	D AND MAINTAINED	DATE: 10/31/2023
			ATIONS FOR SC	DIL EROSION & SEDIMENT CONTROL" UNLESS	OTHERWISE	FSC SHEET 70F16





E&S NARRATIVE:

PROJECT DESCRIPTION THE PURPOSE OF THIS PROJECT IS TO CREATE TOTAL MAXIMUM DAILY LOAD (TMDL) CREDITS THROUGH STREAM RESTORATION. THE PROJECT SITE IS LOCATED AT 6607 OAK STREET HYATTSVILLE, MD 20785. THE CONSTRUCTION OF THIS PROJECT WILL DISTURB 3.26 ACRES.

EXISTING SITE CONDITION

THE EXISTING SITE IS AN INCISED STREAM BED WITH DECIDUOUS TREES AROUND THE STREAM. THE STREAM PRIMARILY RECEIVES RUNOFF FROM A MULTIPLE STORMDRAIN SYSTEM OUTFALLS LOCATED AT THE UPSTREAM END OF THE STREAM AND THROUGHOUT THE CHANNEL.

THE PROPERTY IS SURROUNDED BY PARCELS WITH SINGLE FAMILY HOMES.

OFFSITE AREAS WILL NOT BE DISTURBED FOR THIS PROJECT.

REFER TO ESC PLAN SHEET FOR SOILS MAP; THE SOILS WITHIN THE LIMITS OF DISTURBANCE ARE SUMMARIZED BELOW:

CHARACTERISTICS OF SOILS FOUND IN THE LOD									
	ERODIBILITY		HYDROLOGIC	HYDRIC	HIGH				
	K-FACTOR	DRAINAGE CLASS	SOIL GROUP	RATING					
CdD, CHRISTIANA-DOWNER-URBAN LAND COMPLEX, 5-15 PERCENT SLOPES	-	MODERATELY WELL DRAINED	D	NO					
RuB. RUSSETT-CHRISTIANA-URBAN LAND COMPLEX. 0-5 PERCENT SLOPES	-	MODERATELY WELL DRAINED	D	NO					

THERE ARE CRITICAL ENVIRONMENTAL AREAS LOCATED WITHIN THE PROJECT AREA. THESE AREAS INCLUDE STREAMS, FLOODPLAIN, & STEEP SLOPES >15%. THESE AREAS WILL EXPERIENCE SERIOUS DEGRADATION IF SEDIMENT LEAVES THE SITE AND DRAINS INTO THESE FEATURES. THEREFORE, EXTRA CARE WILL BE TAKEN TO MINIMIZE THE EXPOSURE OF THESE WATER FEATURES TO SEDIMENT AND TO PREVENT EROSION OF THE ADJACENT BANK. ADDITIONALLY, THESE AREAS SHOULD BE INSPECTED MORE FREQUENTLY FOR SIGNS OF EROSION.

EROSION & SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. THE MINIMUM STANDARD OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION AND SEDIMENT CONTROL SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE. THE E&S INSPECTOR HAS THE AUTHORITY TO MAKE MINOR CHANGES TO E&S CONTROLS AS NECESSARY IN THE FIELD AS SITE CONDITIONS CHANGE. NO EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UNTIL ALL UPSLOPE AREAS HAVE BEEN STABILIZED.

ORANGE SAFETY FENCE/TREE PROTECTION FENCING (SEE DETAIL SHEET FSC SHEET 12):

SAFETY FENCING EITHER POLYETHYLENE SECURED TO CONVENTIONAL METAL T OR U POSTS OR CHAIN LINK METAL SAFETY FENCING SHALL BE INSTALLED AS SHOWN ON THE PLANS. SIGNS NOTING POTENTIAL HAZARDS SHALL BE USED AND POSTED SUCH THAT THEY ARE EASILY VISIBLE TO ANYONE APPROACHING THE PROTECTED AREA.

STABILIZED CONSTRUCTION ENTRANCE (B-1):

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE INDICATED ON THE PLANS. IT WILL BE NEEDED TO CLEAN THE TIRES OF VEHICLES AND EQUIPMENT DURING WET CONDITIONS IN ORDER TO PREVENT MUD/ROCKS/DEBRIS FROM BEING TRACKED OFF SITE OR INTO PUBLIC ROADWAYS.

PIPE SLOPE DRAIN (D-1):

AT THE END OF EACH SECTION OF DIVERSION FENCE IS A RIPRAP POOL TO DISSIPATE THE VELOCITY OF THE DIVERTED WATER. THAT WATER IS DIRECTED INTO A PVC PIPE AND DISCHARGES TO THE STREAM OR ROCK OUTLET PROTECTION. SEE PLAN FOR DETERMINATION OF WHICH PIPE SLOPE DRAINS AND DIVERSION FENCES ARE REQUIRED ONLY PER MANAGEMENT STRATEGY #9.

DIVERSION/PIPE SLOPE DRAIN TABLE								
	DA		MIN. PIPE					
ID			DIAMETER					
	(ACRES)	(FI)	(INCHES)					
#1	1.5	20	18					
#2	0.3	20	12					
#3	0.4	20	12					
#4	0.9	20	18					
#5	2.0	20	21					
#6	0.3	20	12					
#7	0.3	40	12					

A TEMPORARY DIVERSION FENCE SHALL BE INSTALLED, AS SHOWN ON THE PLAN, TO DIRECT UPLAND FLOW AWAY FROM THE WORK AREA DURING CONSTRUCTION.

SILT FENCE (E-1

SILT FENCE SEDIMENT BARRIERS WITHOUT WIRE BACKING SHALL BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW. CURB INLET PROTECTION (F-9-3)

JRB INLETS WILL NEED TO BE PROTECTED TO PREVENT SEDIMENT-LADEN RUNOFF FROM DRAINING INTO THE CURB INLET DURING CONSTRUCTION. CURB INLET PROTECTION SHOULD BE USED AT EACH INLET UNTIL UPLAND AREAS ARE STABILIZED.

PUMP-AROUND DIVERSION (THE MARYLAND GUIDELINES TO WATERWAY CONSTRUCTION: MGWC 1.2)

A PUMP-AROUND DIVERSION SHALL BE INSTALLED TO TEMPORARILY DIVERT FLOW AROUND IN-STREAM CONSTRUCTION SITES. THIS FORM OF DIVERSION IS NECESSARY WHEN RESTORATION PRACTICES SPAN THE ENTIRE WIDTH OF THE STREAM CHANNEL AND/OR A LINEAR REACH OF STREAM SEGMENT IS TO BE SIMULTANEOUSLY WORKED ON. THIS PRACTICE ALSO LIMITS POTENTIAL FOR DOWNSTREAM SEDIMENTATION BECAUSE IN-STREAM WORK WILL BE COMPLETED IN THE DRY AND ALL DENUDED AREAS WILL BE STABILIZED BEFORE RE-INTRODUCTION OF WATER BACK INTO STREAM CHANNEL. THE TOTAL WORK AREA OF THE PUMP-AROUND SHOULD NOT EXCEED THE LENGTH OF AREA THAT CAN BE COMPLETED AND STABILIZED IN ONE (1) WORKING DAY. THE PUMP-AROUND LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHOULD BE PLACED IN THE FIELD BASED ON THE CONSTRUCTION SCHEDULE. THE PUMP-AROUND SHOULD BE COMPLETED AND REMOVED AT THE END OF EACH DAY. THIS PRACTICE SHOULD ALSO BE LIMITED TO BASE OR LOW FLOW CONDITIONS WERE APPLICABLE TO ENSURE ADEQUACY OF PUMP EQUIPMENT. PRACTICE IS MOST APPLICABLE IN SMALL TO MEDIUM WATERSHEDS WITH RELATIVELY SMALL BASE FLOW DISCHARGES. THIS ALLOWS FOR MULTIPLE PUMPING OPTIONS AND EQUIPMENT TO SUFFICIENTLY HANDLE NECESSARY PUMP CAPACITY. USE OF PRACTICE NOT LIMITED TO WATERSHED SIZE BUT BY CAPACITY OF PUMP AND HEIGHT OF IN-STREAM BARRIERS. PUMP SELECTION SHALL BE SIZED TO ADEQUATELY PUMP BASE FLOW AT A HEAD GREATER THAN THE IN-STREAM BARRIER HEIGHT. DOWN STREAM GEOTEXTILE LINED FLOW TRANSITION POINT MAY BE USED. THIS FEATURE ALLOWS FOR DISPERSION OF PUMP DISCHARGE TO A NON-EROSIVE VELOCITY WITHIN THE EXISTING STREAM CHANNEL. ALL OTHER APPLICABLE ESC MEASURES, AS SHOWN ON THE PLAN, SHALL BE USED IN CONJUNCTION WITH PUMP-AROUND.

		FUI		I	VANNINGSEQUAT	UN INFUIS			
REACH	MIN. COFFERDAM HEIGHT (FT)	BANKFULL DEPTH (FT)	EST. BASEFLOW FLOW (GPM)	EST. BASEFLOW FLOW (CFS)	MIN. PUMP SIZE/ PIPE SIZE	DRAINAGE AREA TO REACH (AC)	BASEFLOW AREA	WETTED PERIMETER	n
R1 UPPER	2	0.8	45	0.10	2" PUMP	58.8	0.16	2.77	0.035
R1 LOWER	2	0.9	64	0.14	2" PUMP	87.1	0.20	3.42	0.035
T1	2	0.6	18	0.04	2" PUMP	19.9	0.07	1.77	0.035
OUTFALL 1	2	0.4	22	0.05	2" PUMP	38.9	0.04	1.10	0.013
OUTFALL 2	2	0.4	5	0.01	2" PUMP	2.1	0.02	0.70	0.013
OUTFALL 3	2	0.6	6	0.01	2" PUMP	3.0	0.02	0.62	0.013
OUTFALL 4	2	0.4	9	0.02	2" PUMP	12.9	0.03	1.00	0.013

DECK MATTING (SEE DETAIL 1, FSC SHEET 14)

DECK MATS SHOULD BE UTILIZED WHERE SHOWN ON THE PLANS TO PROVIDE ACCESS FOR EQUIPMENT AND CONSTRUCTION ACTIVITIES TO PLACES WERE THE EXISTING GROUND NEEDS TO BE PROTECTED FROM THE EQUIPMENT. APPLICATIONS OF DECK MATS CAN INCLUDE UTILITY CROSSINGS, ASPHALT PROTECTION, WETLAND CROSSINGS ETC. DECK MATS SHOULD BE PUT IN FOR THE LEAST AMOUNT OF TIME NECESSARY AND REMOVED WHEN NO LONGER NEEDED. MULCH SHOULD BE USED TO FILL GAPS BETWEEN MATS AT TURNS. IF NECESSARY, TO PROVIDE DRAINAGE CONNECTIVITY, PVC PIPES CAN BE LAID BENEATH THE MATS.

FILTER BAG (F-4

FILTER BAG SHALL BE UTILIZED WHERE SHOWN ON THE PLANS TO FILTER SEDIMENT-LADEN WATER PRIOR TO DISCHARGE. THE FILTER BAG SHALL BE PLACED IN A MANNER THAT ALLOWS FOR THE EASE OF DISPOSAL OF THE TRAPPED SEDIMENT AND HAS MINIMAL INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND PEDESTRIAN TRAFFIC.

AND GRADING (B-

ALL AREAS WITHIN THE LIMITS OF GRADING BUT ABOVE BANKFULL SHALL BE NO STEEPER THAN 2:1. CUT/FILL SLOPES SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED PER THE STANDARD STABILIZATION REQUIREMENTS. CUT/FILL SLOPES SHALL BE PROTECTED FROM SURFACE WATER UNTIL THEY ARE STABILIZED PER THE REQUIREMENTS OF B-4 VEGETATIVE STABILIZATION.

(EGETATIVE STABILIZATION (B-4)

ALL DISTURBED AREAS OUTSIDE OF THE STREAM BOTTOM ARE TO BE PERMANENTLY SEEDED UPON THE REMOVAL OF TEMPORARY STABILIZATION PRACTICES. TEMPORARY STABILIZATION IS INCLUDED IN SITE-SPECIFIC MIXES AND SHALL BE INSTALLED IN ACCORDANCE WITH B-4-4 TEMPORARY STABILIZATION. PERMANENT SEEDING SHALL BE INSTALLED PER THE SITE-SPECIFIC PLANTING PLAN AND IN ACCORDANCE WITH B-4-5 PERMANENT STABILIZATION.

SOIL STABILIZATION BLANKETS & MATTING (B-4-6)

SOIL STABILIZATION BLANKETS/MATTING SHALL BE INSTALLED WHERE INDICATED ON THE PLANS TO AID IN CONTROLLING EROSION IN CRITICAL AREAS AS WELL AS AIDING IN THE ESTABLISHMENT OF VEGETATION FOR PERMANENT STABILIZATION ON PREVIOUSLY DISTURBED SLOPES. BLANKETS/MATTING SHALL BE INSTALLED PER SPECIFICATION B-4-6. UNLESS OTHERWISE NOTED ALL ESC MATTING WITHIN THE STREAM SHALL BE NEDIA KOIRMAT 700 OR EQUIVALENT.

ACCESS ROAD STABILIZATION (SEE DETAIL, FSC SHEET 14)

MULCH ACCESS ROADS SHALL BE UTILIZED WHERE INDICATED ON THE PLANS TO MINIMIZE IMPACT TO THE GROUND SURFACE AND PREVENT SOIL DISTURBANCE. MULCH ACCESS ROADS SHALL BE CONSTRUCTED OF APPROXIMATELY 12" OF MULCH. IN LIEU OF MULCH ACCESS ROAD REMOVAL, MULCH SHALL BE SPREAD THROUGHOUT ADJACENT FOREST FLOOR, WITHIN THE LOD, TO A THICKNESS NO GREATER THAN 2". TILL MULCH ACCESS ROAD TO A DEPTH OF 12" TO REDUCE COMPACTION.

BY:Cpankow

TEMPORARY STOCKPILE

A TEMPORARY STOCKPILE AND ASSOCIATED EROSION AND SEDIMENT CONTROL MEASURES DO NOT NEED TO BE INSTALLED IF THE CONTRACTOR DEEMS THE STOCKPILE UNNECESSARY. THE EROSION AND SEDIMENT CONTROL MEASURES MAY BE ADJUSTED ACCORDINGLY TO TOTAL AREA BEING USED. ALL STOCKPILE ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER OF RECORD.

ANAGEMENT STRATEGIES

1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

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- 2. SEDIMENT TRAPPING / DIVERTING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED & MULCHED IMMEDIATELY FOLLOWING INSTALLATION. 3. TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING WHEN DIRECTLY ADJACENT TO THE WATERCOURSE. IN ALL OTHER LOCATIONS, DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL HANDBOOK.
- 4. AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC. 5. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.

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6. AFTER ACHIEVING ADEQUATE STABILIZATION OF PERMANENT SEEDING, THE TEMPORARY E&S CONTROLS WILL BE CLEANED UP AND REMOVED 7. THE FEWEST NUMBER OF TREES POSSIBLE WILL BE CLEARED FROM WITHIN THE LOD. THE SUPERINTENDENT SHALL WORK WITH THE ENGINEER OF RECORD. OR ASSIGNEE. TO DETERMINE LIMITS OF CLEARING.

OUTLET STRUCTURE OR OTHER STRUCTURES AS DICTATED BY THE EOR OR TPIR, MAY BE REQUIRED

STREAM CHANNEL/AREAS OF GRADING, ROOT PRUNING WILL BE USED TO MINIMIZE THE IMPACT TO THE SPECIMEN TREES. 9. SHOULD THE SITE BE FOUND TO BE IN A WET CONDITION BASED ON THE TIME OF YEAR, ADDITIONAL MEASURES SUCH AS INCLUDING DIVERSION FENCES & PIPE SLOPE DRAIN, TEMPORARY SWALES, TEMPORARY STONE

TEMPORARY / PERMANENT STABILIZATION:

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED AT A MINIMUM OF THREE (3) CALENDAR DAYS FOR PERIMETER DIKES, SWALES, DITCHES, SEDIMENT TRAPS AND ALL SLOPES STEEPER THAN 3:1, ALL OTHER DISTURBED AREAS MUST BE STABILIZED WITHIN SEVEN (7) CALENDAR DAYS. SEE MANAGEMENT STRATEGIES NOTE #3 IF DIRECTLY ADJACENT TO WATERCOURSE. ADEQUATE STABILIZATION REQUIRES 95% GROUND COVER, IF GROUND COVER IS LESS THAN 95% ADDITIONAL SEEDING/MULCH IS REQUIRED.

MAINTENANCE IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER. FILTERING DEVICES WILL BE INSPECTED FREQUENTLY AND REPAIRED/REPLACED ONCE THE SEDIMENT BUILD-UP PREVENTS THE STRUCTURE FROM FUNCTIONING AS DESIGNED. ALL SOIL STABILIZATION MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING THE DAMAGE TO THE SLOPE OR DITCH. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED UNTIL 95% GROUNDCOVER IS PRESENT.

CONSTRUCTION SEQUENCE

NOTE: ALL STREAMS ASSOCIATED WITH THIS PROJECT ARE DESIGNATED USE CLASS 1 THUS, ALL IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR. THE FOLLOWING PROCESS WILL BE DONE FOR EACH REACH ON THE PROJECT SITE. STREAMS SHOULD BE CONSTRUCTED UPSTREAM TO DOWNSTREAM. IF POSSIBLE, CONVERGING REACHES SHOULD BE CONSTRUCTED SIMULTANEOUSLY SUCH THAT CONSTRUCTION OF BOTH REACHES APPROACH THE NEW CONFLUENCE SIMULTANEOUSLY. IF SIMULTANEOUS CONSTRUCTION IS NOT POSSIBLE A TEMPORARY CONFLUENCE CAN BE CONSTRUCTED BETWEEN THE EXISTING CONVERGING REACH AND THE PROPOSED/CONSTRUCTED REACH. THE PROJECT SEQUENCING SHOULD BE EXECUTED SUCH THAT TEMPORARY CONFLUENCES ARE IN PLACE FOR THE SHORTEST AMOUNT OF TIME POSSIBLE. THE ENGINEER OF RECORD, OR ASSIGNEE, SHALL APPROVE ALL TEMPORARY CONFLUENCES THAT ARE INTENDED TO BE LEFT IN PLACE FOR MORE THAN FIVE (5) DAYS. OUTSIDE OF MINIMIZING THE DURATION OF TEMPORARY CONFLUENCES THE CONTRACTOR MAY SEQUENCE THE CONSTRUCTION OF THE REACHES/TRIBUTARIES AS THEY SEE FIT.

- 1. LOD STAKEOUT (DAY 0-4): THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, GRUBBING, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES. PRIOR TO TREE CLEARING, THE ENGINEER OF RECORD AND JOB SUPERINTENDENT WILL REVIEW TREES FOR SELECTIVE CLEARING WITHIN LIMITS OF DISTURBANCE. 2. PRE-CONSTRUCTION MEETINGS (DAY 5): AFTER THE LOD IS STAKED OUT BUT PRIOR TO CLEARING OF TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH
- THE SITE ENGINEER. REFER TO PRINCE GEORGE'S SOIL CONSERVATION DISTRICT (PGSCD) GENERAL NOTES C1-7 FOR ADDITIONAL CONTACT STAGES) 3. CLEAR & GRUB (DAYS 5-15): CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF PERIMETER CONTROLS; INCLUDING TREE PROTECTION FENCING, DIVERSION FENCE, & SILT FENCE (DAYS 15-25). 4. CONSTRUCT AND STABILIZE PERIMETER CONTROLS (DAYS 25-30): WITH INSPECTOR APPROVAL THE INSTALLATION AND STABILIZATION OF PERIMETER CONTROLS CAN BE SEQUENCED TO FOLLOW AHEAD OF THE STREAM CONSTRUCTION.
- 5. CLEAR, GRUB, AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES (DAYS 30-35). WITH INSPECTOR APPROVAL THE INSTALLATION AND STABILIZATION OF SEDIMENT CONTROLS CAN BE SEQUENCED TO FOLLOW AHEAD OF THE STREAM CONSTRUCTION.
- CLEARING, GRUBBING, OR GRADING.
- 8. STAKE OUT THE PROPOSED ALIGNMENT (DAYS 40-45) OF THE CHANNEL IN THE FIELD AND REVIEW WITH THE ENGINEER PRIOR TO GROUND DISTURBANCE. THE DOWNSTREAM & UPSTREAM TIE-IN TO THE EXISTING STREAM MUST BE REVIEWED TO DETERMINE IF MODIFICATIONS ARE REQUIRED TO ADJUST THE DESIGN TO CURRENT STREAM CONDITIONS.
- 9. PERFORM STREAM CHANNEL/FLOODPLAIN CONSTRUCTION (DAYS 45-70): NOTE: THE FOLLOWING SEQUENCE SHOULD BE REPEATED ON A DAILY BASIS ALONG A SECTION OF STREAM THAT CAN BE COMPLETED WITHIN ONE DAY. ON AN AVERAGE PROJECT, THE ESTIMATED LENGTH OF STREAM TO BE CONSTRUCTED PER DAY CAN RANGE ANYWHERE BETWEEN 50 AND 100 FEET. HOWEVER, THE DAILY RATE OF COMPLETION CAN VARY FROM THIS RANGE DEPENDING ON THE COMPLEXITY AND SIZE OF THE PROPOSED SECTION OF STREAM.
- ALL STREAM CONSTRUCTION SHOULD BEGIN UPSTREAM AND PROCEED DOWNSTREAM. THE CONSTRUCTION OF THE PROPOSED CHANNEL SHALL GENERALLY FOLLOW THE SEQUENCE BELOW: a. SETUP PUMP-AROUND DIVERSION: IF WORKING OFF-LINE IS NOT POSSIBLE, INSTALL PUMP-AROUND DIVERSION FOR THE SECTION OF STREAM UNDER ACTIVE CONSTRUCTION. DIVERTING ONLY THE NECESSARY PORTION OF THE STREAM AS NEEDED TO EXPOSE THE CONSTRUCTION AREA. THE CLEAN WATER BYPASS SHALL OUTFALL INTO A STABILIZED SECTION OF EXISTING CHANNEL PER THE PROVIDED DETAIL AND THE BED SHALL BE TEMPORARILY LINED WITH EITHER RIPRAP, SANDBAGS OR RIFFLE MATERIAL TO PREVENT EROSION. ALL SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH A FILTER BAG ONTO A SURFACE WITH A MAXIMUM 5% SLOPE, LOCATED SUCH THAT THE WATER DRAINS BACK INTO THE CHANNEL BELOW THE DOWNSTREAM SANDBAG DIKE. WORK SHALL BE PLANNED SUCH THAT FLOW CAN BE RETURNED TO THE CHANNEL AT THE END OF EACH WORK DAY BY REMOVING THE PORTION OF THE DAM RESTRICTING BASEFLOW THROUGH THE ACTIVE PUMP-AROUND SEGMENT. *PUMP-AROUND DIVERSIONS SHOWN ON PLANS CAN BE MINIMIZED OR ELIMINATED IF SECTIONS OF PROPOSED CHANNEL CAN BE BUILT OFFLINE WITHOUT DISTURBANCE TO THE EXISTING STREAM CHANNEL (PER DESCRIPTION ABOVE).
- b. SALVAGE TOPSOIL: STRIP TOPSOIL FROM AREA TO BE GRADED AND STOCKPILE FOR REUSE ACROSS THE DISTURBED STREAM BANKS & RIPARIAN AREAS. c. CHANNEL EXCAVATION: EXCAVATE THE CHANNEL PER THE PLANS. DURING EXCAVATION OF THE CHANNEL ANY ACCUMULATION OF GROUND WATER SHALL BE PUMPED OUT OF THE CHANNEL THROUGH A FILTER BAG ONTO A STABILIZED AREA ENSURING NO EROSION OCCURS AROUND THE OUTFALL OF THE FILTER BAG.
- d. INSTALLATION OF STRUCTURES (LOG OR ROCK): USING LOGS (SALVAGED FROM SITE CLEARING IF AVAILABLE) OR ROCKS INSTALL THE STRUCTURES PER THE PLANS, ENSURING THAT THE TOP OF THE LOG/HEADER ROCK EXPOSED IN THE CHANNEL IS EVEN WITH THE INVERT OF THE STREAM CHANNEL.
- e. CHANNEL STABILIZATION: STABILIZE THE STREAM BED WITH STONE AS INDICATED IN THE STREAM DESIGN PLANS, ENSURING THAT THE SURFACE OF THE STONE MATCHES THE PROFILE ELEVATION.
- f. BANK STABILIZATION: INSTALL TOPSOIL, SEEDING & COIR MATTING ON THE STREAM BANKS, AS SHOWN IN THE PLANTING/STREAM DETAILS SECURING THE MATTING AS SHOWN. g. DOWNSTREAM TIE-IN: COMPLETE THE GRADING OF THE CHANNEL ON THE DOWNSTREAM END, ENSURING A GRADUAL TRANSITION INTO THE DIMENSIONS OF THE EXISTING STREAM CHANNEL. INSTALL TOPSOIL, SEEDING, COIR MATTING & BED MATERIAL TO STABILIZE IN THE TEMPORARY TIE-IN. IF A TEMPORARY CONNECTION CHANNEL IS NECESSARY TO CONNECT THE PROPOSED CHANNEL TO THE EXISTING CHANNEL AT THE END OF THE WORKDAY, A TEMPORARY CHANNEL CAN BE EXCAVATED THAT IS THE SAME SIZE OR LARGER THAN THE DESIGN CHANNEL AND LINED WITH 10MIL POLYVINYL SHEETING. IF THERE IS A VERTICAL DROP RIFFLE MIX SHALL BE PUT ON TOP OF THE SHEETING TO STABILIZE THE DROP.
- h. UPSTREAM TIE-INS: AFTER THE COMPLETION ALL OTHER DOWNSTREAM GRADING, GRADE THE STREAM CHANNEL UPSTREAM TO THE EXISTING STREAM CHANNEL (OR PREVIOUSLY COMPLETED SECTION), ENSURING A GRADUAL TRANSITION FROM THE DIMENSIONS OF THE EXISTING STREAM CHANNEL TO THE PROPOSED CHANNEL. INSTALL TOPSOIL, SEEDING, COIR MATTING & BED MATERIAL TO STABILIZE CHANNEL TIE-IN.
- i. RETURNING FLOW TO CHANNEL: AFTER THE ENTIRE STREAM CHANNEL (OR SECTION) HAS BEEN CONSTRUCTED AND STABILIZED. AND ALL TIE-INS COMPLETED. OPEN THE PROPOSED SECTION OF CHANNEL TO STREAM FLOW. REMOVING STREAM DIVERSION PUMPS AND COFFERDAMS TO ALLOW PASSAGE OF CURRENT BASEFLOW.
- j. GRADING OR FILLING OF EXISTING CHANNEL / FLOODPLAIN GRADING: WORK OUTSIDE OF THE PROPOSED CHANNEL, INCLUDING GRADING OR FILLING OF THE EXISTING CHANNEL AND FLOODPLAIN GRADING, CAN BE COMPLETED AFTER FLOW HAS BEEN INTRODUCED TO THE PROPOSED CHANNEL. FLOODPLAIN GRADING/GRADING OUTSIDE OF EXISTING & PROPOSED CHANNELS, CAN BE COMPLETED PRIOR TO CONSTRUCTING THE PROPOSED CHANNEL IF IT CAUSES NO DISTURBANCE TO THE EXISTING STREAM.
- k. TOPSOILING AND SEEDING FLOODPLAIN: APPLY SALVAGED TOPSOIL, SPREAD SEEDING AS SPECIFIED ON THE PLANTING PLAN, AND INSTALL MATTING WHERE SHOWN TO THE DISTURBED RIPARIAN & UPLAND AREA. ALL AREAS ADJACENT TO STREAMS SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT SEED AND MULCH OR MATTING THE SAME DAY AS ACHIEVING FINAL GRADE.PLANTING: IN THE APPROVED PLANTING SEASON, INSTALL ADDITIONAL TREE/SHRUB PLANTINGS AS SHOWN ON THE PLANTING PLAN
- 10. INSPECT AND PERFORM MAINTENANCE (DAYS 45-70) (AS REQUIRED) OF EROSION AND SEDIMENT CONTROLS ON A DAILY BASIS AND THE NEXT DAY AFTER EACH RAIN EVENT. 11. EROSION AND SEDIMENT APPROVAL (DAY 71): OBTAIN WRITTEN APPROVAL OF PRINCE GEORGE'S COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE EROSION AND SEDIMENT CONTROLS. 12. REMOVE EROSION AND SEDIMENT CONTROLS (DAYS 71-80): REMOVE EROSION AND SEDIMENT CONTROLS & INSTALL PERMANENT SEEDING AND MULCH IN DISTURBED AREAS NOT ALREADY STABILIZED. REFER TO PLANTING NOTES & DETAILS.
- 13. DAILY INSPECTION AND MAINTENANCE (DAYS 45-80) OF PERMANENT SEEDING AND MULCHING IS REQUIRED UNTIL PERMANENT SEEDING IS ESTABLISHED AND A GOOD STAND IS MAINTAINED. ** ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION AND APPROVED BY PGSCD: PHASING OF THE WORK IS ACCEPTABLE AND RECOMMENDED. STEPS 3-10 SHOULD BE REPEATED PER PHASE.

PRINCE GEORGE'S SOIL CONSERVATION DISTRICT (PGSCD) GENERAL NOTES:

- A. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL REQUIRED EASEMENT, RIGHT AND/OR RIGHTS-OF-WAY PURSUANT TO THE DISCHARGE FROM THE EROSION AND SEDIMENT CONTROL PRACTICES, STORMWATER
- MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS AND GRADING OR OTHER WORK TO BE PERFORMED ON ADJACENT OR DOWNSTREAM PROPERTIES AFFECTED BY THIS PLAN. B. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES,
- CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET. C. THE OWNER/DEVELOPER OR REPRESENTATIVE SHALL REQUEST THAT THE PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTION, AND ENFORCEMENT INSPECTION AUTHORITY APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT AND SHALL OBTAIN WRITTEN INSPECTION APPROVALS BY THE INSPECTOR AT THE FOLLOWING STAGES IN THE
- **DEVELOPMENT OF THE SITE:**
- 1) PRIOR TO THE START OF EARTH DISTURBANCE;
- 2) UPON COMPLETION OF THE INSTALLATION OF TREE PROTECTION DEVICES, FOLLOWED BY THE INSTALLATION OF PERIMETER EROSION & SEDIMENT CONTROLS, PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL INITIAL APPROVAL BY THE INSPECTOR IS MADE; 3) UPON COMPLETION OF STRIPPING, THE STOCKPILING OF TOPSOIL, THE CONSTRUCTION OF TEMPORARY SEDIMENT AND EROSION CONTROL FACILITIES, DISPOSAL OF ALL WASTE MATERIAL AND PREPARATION OF THE GROUND; 4) UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS; 5) PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT;
- 6) PRIOR TO THE REMOVAL OF SEDIMENT CONTROL PRACTICES; AND
- 7) UPON COMPLETION OF FINAL GRADING, REFORESTING, PERMANENT DRAINAGE AND EROSION CONTROL FACILITIES INCLUDING ESTABLISHED GROUND COVERS AND PLANTING, AND ALL OTHER WORK OF THE BUILDING PERMITS. D. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES BEFORE REMOVAL OF CONTROLS.
- 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/DEVELOPER THAT SIGNS THE CERTIFICATION ON AN EROSION AND SEDIMENT CONTROL PLAN IS THE RESPONSIBLE PARTY REGARDLESS OF ANY SALE OF THE PROPERTY OR WORK OF SUBCONTRACTORS. EROSION AND SEDIMENT CONTROL PLANS ARE APPROVED FOR ONE
- OWNER/DEVELOPER ONLY. F. PGSCD APPROVAL OF A EROSION AND SEDIMENT CONTROL PLAN, PURSUANT TO MEETING LOCAL PERMIT REQUIREMENTS FOR GRADING, BUILDING OR STREET PERMITS, ETC., IS VALID ONLY WHEN THE WORK TO BE PERFORMED UNDER THE PERMIT IS THE SAME AS (NO MORE/NO LESS THAN) THAT CONTAINED IN THE PLAN AS APPROVED BY THE PGSCD.
- G. ANY CHANGES OR MODIFICATIONS TO AN APPROVED EROSION AND SEDIMENT CONTROL PLAN, NOT APPROVED BY THE PGSCD, SHALL INVALIDATE THE PLAN APPROVAL. H. OFFSITE BORROW OR SPOIL AREAS MUST HAVE AN APPROVED AND ACTIVE EROSION AND SEDIMENT CONTROL PLAN.
- I. TEMPORARY DESIGNED SEDIMENT BASINS SHALL BE REMOVED WITHIN 36 MONTHS AFTER THE BEGINNING OF CONSTRUCTION OF THE BASIN. (SMALL POND NOTES DO NOT APPLY)
- J. DISTURBED SURFACE AREA: 3.26 AC VEGETATIVELY STABILIZED AREA: 3.26 AC
- VOLUME OF SPOIL MATERIAL: 995.52 CY VOLUME OF CUT: 1736.39 CY
- VOLUME OF BORROW MATERIAL: 0 CY
- VOLUME OF FILL: 740.87 CY
- K. PREDOMINANT SOIL TYPES ARE LISTED IN THE SOILS TABLE ON THIS SHEET.

DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) AND B) SEVEN (7) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE, THE IN-PLACE SEDIMENT

7. PERFORM CLEARING AND GRUBBING (DAYS 35-40): AS NEEDED FOR RESTORATION AND TO STAY AHEAD OF CONSTRUCTION OPERATIONS WHILE MINIMIZING THE DURATION OF TIME AN AREA IS EXPOSED.

6. WRITTEN APPROVAL (DAY 35): ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED PER APPROVED SEQUENCE, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL

MARYLAND ENVIRONMENTAL SERVICE (MES; 410-729-8375) SEDIMENT CONTROL INSPECTOR (48 HOURS NOTICE), THE OWNERS REPRESENTATIVE, MNCPPC PARK PLANNING & DEVELOPMENT ENGINEERING SECTION (301-704-0918), AND

8. TREES NOT BEING CLEARED WILL BE PROTECTED WITH TEMPORARY TREE PROTECTION FENCING AND MULCH/TIMBER MATS WHERE WORK MUST OCCUR WITHIN THE CRZ OF THE TREE. IF THE CRZ EXTENDS INTO THE

≥O STRE CONT OUN⁻ UU AND NT (LCC ЧЩ Ш Ц FALL EDIME ORGI IERS, Ο **GEC** ⊢ທ AR AR <u>`</u> ~ ~ ~ ` Ζ Ч С С С С PAR COSIC PRIN TER S SШ VERI ORA IT: C(U F ဟ CHE^V REST CLIEN STAMP/SEAL: PROFESSIONAL CERTIFICATION 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. 52852, EXPIRATION DATE: 6/14/2024 OF MARI 10/31/202 30% DESIGN REVIEW Signature Date PERMIT PLAN DESIGN REVIEW Dailin Wilfing 5/11/23 Date Signature CONSTRUCTION PLAN REVIEW 15mg+ 7/25/23 Signature Date EVISIONS: **ROJECT MANAGER** DRAWN: JOB NUMBER: 106683 DESIGN TYPE 10/31/202 SHEET NO: SC SHEET 100F16



B-4-7 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

HEAVY USE AREA PROTECTION

Definition

The stabilization of areas frequently and intensively used by surfacing with suitable materials (e.g., mulch and aggregate).

<u>Purpose</u>

To provide a stable, non-eroding surface for areas frequently used and to improve the water quality from the runoff of these areas.

Conditions Where Practice Applies

This practice applies to intensively used areas (e.g., equipment and material storage, staging areas, heavily used travel lanes).

Criteria

- 1. A minimum 4-inch base course of crushed stone or other suitable materials including wood chips over nonwoven geotextile should be provided as specified in Section H-1 Materials.
- 2. Select the stabilizing material based on the intended use, desired maintenance frequency, and runoff control.
- 3. The transport of sediments, nutrients, oils, chemicals, particulate matter associated with vehicular traffic and equipment, and material storage needs to be considered in the selection of material. Additional control measures may be necessary to control some of these potential pollutants.
- 4. Surface erosion can be a problem on large heavy use areas. In these situations, measures to reduce the flow length of runoff or erosive velocities need to be considered.

Maintenance

The heavy use areas must be maintained in a condition that minimizes erosion. This may require adding suitable material, as specified on the approved plans, to maintain a clean surface.

B.42



ANCHOR POSTS MUST BE

NO LESS THAN 1/3 OF

INSTALLED TO A DEPTH OF

THE TOTAL WEIGHT OF THE POST.

- USE 8" WIRE "U"

BOTTOM

TO SECURE FENCE

NOTES: (MUST BE INCLUDED WITH DETAIL)

6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

- . FOREST PROTECTION DEVICE ONLY.
- . RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
- 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS. 5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION

- improvements. To provide erosion control and vegetative establishment for extreme changes in grade.
- Earth disturbances or extreme grade modifications on steep or long slopes.

The grading plan should be based on the incorporation of building designs and street layouts that fit and utilize existing topography and desirable natural surroundings to avoid extreme grade modifications. Information submitted must provide sufficient topographic surveys and soil investigations to determine limitations that must be imposed on the grading operation related to slope stability, adjacent properties, drainage patterns, measures for water removal, and vegetative treatment, etc.

Many jurisdictions have regulations and design procedures already established for land grading that must be followed. The plan must show existing and proposed contours for the area(s) to be graded including practices for erosion control, slope stabilization, and safe conveyance of runoff (e.g., waterways, lined channels, reverse benches, grade stabilization structures). The grading/construction plans are to include the phasing of these practices and consideration of the following:

- to ensure that surface runoff will not damage slopes or other graded areas.
- shown on the plans.
- rock outcrops, etc. are to be taken into consideration when designing benches.
- a. Provide benches with a minimum width of six feet for ease of maintenance.

Using vegetation as cover to protect exposed soil from erosion.

To promote the establishment of vegetation on exposed soil. **Conditions Where Practice Applies**

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.

Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

- 1. Adequate vegetative stabilization requires 95 percent groundcover.
- for lime, fertilizer, seedbed preparation, and seeding.
- originally specified.
- 4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

B-3 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

LAND GRADING

Definition

Reshaping the existing land surface to provide suitable topography for building facilities and other site

<u>Purpose</u>

Conditions Where Practice Applies

Design Criteria

1. Provisions to safely convey surface runoff to storm drains, protected outlets or stable water courses

2. Cut and fill slopes, stabilized with grasses, no steeper than 2:1. (Where the slope is to be mowed, the slope should be no steeper than 3:1, but 4:1 is preferred because of safety factors related to moving steep slopes.) Slopes steeper than 2:1 require special design and stabilization considerations to be

3. Benching per Detail B-3-1 whenever the vertical interval (height) of any 2:1 slope exceeds 20 feet; for 3:1 slopes, when it exceeds 30 feet; and for 4:1 slopes, when it exceeds 40 feet. Locate benches to divide the slope face as equally as possible and to convey the water to a stable outlet. Soils, seeps,

b. Design benches with a reverse slope of 6:1 or flatter to the toe of the upper slope and with a minimum of one foot in depth. Grade the longitudinal slope of the bench between 2 percent and 3 percent, unless accompanied by appropriate design and computations.

B 5

B-4 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

VEGETATIVE STABILIZATION

Definition

<u>Purpose</u>

Effects on Water Quality and Quantity

Adequate Vegetative Establishment

2. If an area has less than 40 percent groundcover, restabilize following the original recommendations

3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates

c. The maximum allowable flow length within a bench is 800 feet unless accompanied by appropriate design and computations.

4. Diversion of surface water from the face of all cut and fill slopes using earth dikes or swales. Convey surface water down slope using a designed structure, and:

- a. Protect the face of all graded slopes from surface runoff until they are stabilized.
- b. Do not subject the slope's face to any concentrated flow of surface water such as from natural drainage ways, graded swales, downspouts, etc.
- c. Protect the face of the slope by special erosion control materials to include, but not be limited to, approved vegetative stabilization practices, riprap or other approved stabilization methods.
- 5. Serrated slope as shown in Detail B-3-2. The steepest allowable slope for ripable rock is 1.5:1. For non rock surfaces, the slopes are to be 2:1 or flatter. These steps will weather and act to hold moisture, lime, fertilizer and seed thus producing a much quicker and longer lived vegetative cover and better slope stabilization.
- 6. Subsurface drainage provisions. Provide subsurface drainage where necessary to intercept seepage that would otherwise adversely affect slope stability or create excessively wet site conditions.
- 7. Proximity to adjacent property. Slopes must not be created close to property lines without adequate protection against sedimentation, erosion, slippage, settlement, subsidence, or other related damages.
- 8. Quality of fill material. Fill material must be free of brush, rubbish, logs, stumps, building debris, and other objectionable material. Do not place frozen materials in the fill nor place the fill material on a frozen foundation.
- 9. Stabilization. Stabilize all disturbed areas structurally or vegetatively in compliance with Section B-4 Standards and Specifications for Stabilization Practices.

Maintenance

The line, grade, and cross section of benching and serrated slopes must be maintained. Benches and serrated slopes must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization.

B.6

B-4-8 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

STOCKPILE AREA

Definition

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

<u>Purpose</u>

To provide a designated location for the temporary storage of soil that controls the potential for erosion,

Conditions Where Practice Applies

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

<u>Criteria</u>

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
- 2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
- 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.
- 8. 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.

<u>Maintenance</u>

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 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

sedimentation, and changes to drainage patterns.

H-1 STANDARDS AND SPECIFICATIONS

<u>FOR</u> MATERIALS

 Table H.1: Geotextile Fabrics

		WO SLIT GEOTE	VEN FILM EXTILE	WOV MONOFII GEOTE	'EN LAMENT XTILE	NONWOVEN GEOTEXTILE	
			MINIMU	JM AVERAG	GE ROLL V	VALUE ¹	
PROPERTY	TEST METHOD	MD	CD	MD	CD	MD	CD
Grab Tensile Strength	ASTM D-4632	200 lb	200 lb	370 lb	250 lb	200 lb	200 lb
Grab Tensile Elongation	ASTM D-4632	15%	10%	15%	15%	50%	50%
Trapezoidal Tear Strength	ASTM D-4533	75 lb	75 lb	100 lb	60 lb	80 lb	80 lb
Puncture Strength	ASTM D-6241	450) lb	900	lb	450 lb	
Apparent Opening Size ²	ASTM D-4751	U.S. Si (0.59	ieve 30 mm)	U.S. Sie (0.21	eve 70 mm)	U.S. Sieve 70 (0.21 mm)	
Permittivity	ASTM D-4491	0.05	sec ⁻¹	0.28 s	sec ⁻¹	1.1 sec ⁻¹	
Ultraviolet Resistance Retained at 500 hours	ASTM D-4355	70% st	trength	70% str	rength	70% s	trength

¹ All numeric values except apparent opening size (AOS) represent minimum average roll values (MARV). MARV is calculated as the typical minus two standard deviations. MD is machine direction; CD is cross direction.

² Values for AOS represent the average maximum opening.

Geotextiles must be evaluated by the National Transportation Product Evaluation Program (NTPEP) and conform to the values in Table H.1.

The geotextile must be inert to commonly encountered chemicals and hydrocarbons and must be rot and mildew resistant. The geotextile must be manufactured from fibers consisting of long chain synthetic polymers and composed of a minimum of 95 percent by weight of polyolefins or polyesters, and formed into a stable network so the filaments or yarns retain their dimensional stability relative to each other, including selvages.

When more than one section of geotextile is necessary, overlap the sections by at least one foot. The geotextile must be pulled taut over the applied surface. Equipment must not run over exposed fabric. When placing riprap on geotextile, do not exceed a one foot drop height.

Table H.2: Stone Size

ТҮРЕ	SIZE RANGE	d ₅₀	d ₁₀₀	AASHTO	MIDSIZE WEIGHT ³
NUMBER 57 ¹	3/8 to 1 ¹ / ₂ inch	1/2 in	1 ½ in	M-43	N/A
NUMBER 1	2 to 3 inch	2 ½ in	3 in	M-43	N/A
RIPRAP ² (CLASS 0)	4 to 7 inch	5 ½ in	7 in	N/A	N/A
CLASS I	N/A	9 ½ in	15 in	N/A	40 lb
CLASS II	N/A	16 in	24 in	N/A	200 lb
CLASS III	N/A	23 in	34 in	N/A	600 lb

¹ This classification is to be used on the upstream face of stone outlets and check dams.

² This classification is to be used for gabions.

³ Optimum gradation is 50 percent of the stone being above and 50 percent below the midsize.

Stone must be composed of a well graded mixture of stone sized so that fifty (50) percent of the pieces by weight are larger than the size determined by using the charts. A well graded mixture, as used herein, is defined as a mixture composed primarily of larger stone sizes but with a sufficient mixture of other sizes to fill the smaller voids between the stones. The diameter of the largest stone in such a mixture must not exceed the respective d_{100} selected from Table H.2. The d_{50} refers to the median diameter of the stone. This is the size for which 50 percent, by weight, will be smaller and 50 percent will be larger.

Note: Recycled concrete equivalent may be substituted for all stone classifications for temporary control measures only. Concrete broken into the sizes meeting the appropriate classification, containing no steel reinforcement, and having a minimum density of 150 pounds per cubic foot may be used as an equivalent.

Table H.3: Compost

Parameters ¹	Acceptable Range
pH	5.0 - 8.5
Moisture content	30% - 60%, wet weight basis
Organic matter content	25% - 65%, dry weight basis
Particle size	% passing a selected mesh size, dry weight basis 3 in (75 mm), 100% passing 1 in (25 mm), 90 – 100% passing 0.75 in (19 mm), 70 – 100% passing 0.25 in (6.4 mm), 30 – 60% passing 0.04 in (1 mm), 30% min. passing
Physical contaminants (manmade inerts)	<1% dry weight basis

Adapted from AASHTO Standards Specs for Compost Filter Socks and EPA Example Compost Filter Parameters.

¹ Recommended test methodologies are provided in Test Methods for the Examination of Composting and Compost (TMEC, The U.S Composting Council).

CUMPAI RENTON, 703.393. STREAM CONTROL MD \succ ⋖<u>ш</u>ш́ – COUNT K OUTFALL / N & SEDIME CE GEORGE PARTNERS, S AIL \vdash S Ш Ш PRINCI RG \square GEOI への \mathbf{O} S VIAS | MWA⁻ ŊШ Ш ш ŔΥ HEVERL STORA U F Ω S CLII CLII STAMP/SEAL: 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. 52852, EXPIRATION DATE: 6/14/2024 10/31/202 30% DESIGN REVIEW N/A Signature Date PERMIT PLAN DESIGN REVIEW Dailey Willying 5/11/23 Date Signature CONSTRUCTION PLAN REVIEW X BRIANA STEPHENS 7/25/23 Date Signature REVISIONS: 1ST SUBMISSION: 7-6-2023 2ND SUBMISSION: 9-22-2023 PROJECT MANAGER DESIGNED DRAWN: JOB NUMBER: 106683 DESIGN TYPE ESC DATE: 10/31/2023 SHEET NO: FSC SHEET 12OF 16



Ц 1

	Maryland's Guidelines To Waterway Construction DETAIL 1.2: PUMP-AROUND PRACTICE	
	PLAN VIEW	PRINCE GEORGE'S COMIT CORVIAS SOLUTIONS PART N E R 5 H 1 P
	discharge hoses ediment dike pumps should discharge onto a stable velocity dissipator made of rip rap or sandbags	5367 TELEPHONE ROAD, WARRENTON, VIRGINIA 20187 P: 703.393.4844 F: 703.393.2934 WWW.RES.US
	SECTION A-A impervious sheeting work area cross section of sandbag dike	TFALL AND STREAM SEDIMENT CONTROL EORGE'S COUNTY NERS, LCC AILS COUNTY, MD
	TEMPORARY INSTREAM CONSTRUCTION MEASURES REVISED NOVEMBER 2000 PAGE 1.2 - 3 MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION DETAIL E-1 SILT FENCE STANDARD SYMBOL SF	ARK OU ^T SION & S RINCE G ER PART ORGE'S (
	 CONSTRUCTION SPECIFICATIONS USE WOOD POSTS 1³/₄ × 1³/₄ ± ³/₆ INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT. 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 MID-SECTION. 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. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN 	CHEVERLY EAST F RESTORATION ERC CLIENT: CORVIAS P STORMWATI STORMWATI ESC
_	 ACCORDANCE WITH THIS DETAIL. 7. 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. 8. 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, REINSTALL FENCE. 	STAMP/SEAL: 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. 52852, EXPIRATION DATE: 6/14/2024 OF MARYLAND, LICENSE 0.52852, EXPIRATION DATE: 6/14/2024 S2852, OF MARYLAND, LICENSE 0.52852, EXPIRATION DATE: 0.52852, EXPIRATION DATE: 0.55852, EXPIRATION DATE: 0.55852, EXPIRATION DAT
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		PROJECT MANAGER:JMDESIGNED:CDDRAWN:CDJOB NUMBER:106683

10/31/202

SHEET NO:

FSC SHEET 13 OF 16



NATURAL RESOURCES CONSERVATION SERVICE



	Hardiness Zon Seed Mixture	e (from Figure (from Table B.1	B.3): <u>6b</u> I): <u>SEE SPECIE</u>	S BELOW	Fertilizer Rate	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	(10-20-20)	
	ANNUAL RYE GRASS	40	MAR 1-MAY15 AUG 1-OCT 15			
	FOXTAIL MILLET	30	MAY 16-JUL 31		436 lb/ac	2 tons/ac
					(10 lb/1000 sf)	(90 lb/1000 sf)





B-4-5 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

PERMANENT STABILIZATION

Definition

To stabilize disturbed soils with permanent vegetation.

<u>Purpose</u>

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

Conditions Where Practice Applies

Exposed soils where ground cover is needed for 6 months or more.

<u>Criteria</u>

Seed Mixtures А.

- 1. General Use
- a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
- 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 ½ pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary .
- 2. Turfgrass Mixtures
- a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
- 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 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 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.
- 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.
- iv. 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: $1\frac{1}{2}$ to 3 pounds per 1000 square feet.

Notes: Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass 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,

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)

provides a reliable means of consumer protection and assures a pure genetic line

<u>Central MD</u>: 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, 7b)

- d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 11/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
- e. If soil moisture is deficient, supply new seedings with adequate water for plant growth ($\frac{1}{2}$ 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 sites.

'ermanent	Seeding	Summar
------------------	---------	--------

	Hardiness Z Seed Mixtur	one (from Figu e (from Table E	re B.3): <u>6b</u> B.3): <u>SEE SPECI</u>	ES BELOV	F V	ertilizer Rato (10-20-20)	2	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Ν	P ₂ O ₅	K ₂ 0	
	SWITCH GRASS	10	MAR 1-MAY15 MAY 16-JUN 15	1/4- 1/2 in	45 pounds	00.1b/aa	00.1b/aa	2 tons/20
	CREEPING RED FESCU	E ¹⁵	MAR 1-MAY15 MAY 16-JUN 15	¹ /4- ¹ /2 in	per acre (1.0 lb/	(2 lb/	(2 lb/	(90 lb/
		4	MAR 1-MAY15 MAY 16-JUN 15	¹ /4- ¹ /2 in	1000 sf)	1000 st)	1000 sf)	1000 sf)

Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

1. General Specifications

- a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
- b. Sod must be machine cut at a uniform soil thickness of ³/₄ inch, plus or minus ¹/₄ inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.
- c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended 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.

2. Sod Installation

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.

Type of Plant Material

Seeds - Cool-Season Grasse

(includes mixes with forbs and/o

Seeds - Warm-Season/Cool-(includes mixes with forbs and/

Sod - Cool-Season

Unrooted Woody Materials: Bulbs, Rhizomes, Corms, an

Containerized Stock; Balled Stock

Notes:

- planting during this period.
- later plantings, especially on droughty sites.
- the ground is not frozen and soil moisture is adequate.

Seedi Tall fescue mak more of cover. Birdsfoot Trefo Fairly uniform: birdsfoot trefoil Weeping loveg plant distribution

Red & chewing bluegrass, hard

a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.

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. 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 roots and the underlying soil surface.

Table B.3: Selected List of Permanent Herbaceous Seeding Mixtures

		Seeding	Rate "	Soil	Max		
Mix	Recommended Cultivar	lb/ac	lb/ 1000 ft ²	Drainage Class ^{2/}	Height (inch)	Maint. Level ^{3/}	Remarks
ARM-SEASON/COOL-SEASON GRASS MIXES							
SELECT ONE WARM-SEASON GRASS:							
Switch Grass (Panicum virgatum)	Blackwell, Carthage, Cave-in-Rock, or	10	0.23				All species are native to Maryland.
<u>OR</u>	Shelter						Plant this mix with a regular grass drill.
Coastal Panic Grass (Panicum amarum var. amarulum)	Atlantic	10	0.23				Coastal panicgrass is best adapted to Zones 7a and 7b.
AND ADD:							
Creeping Red Fescue (Festuca rubra var. rubra)	Dawson, Pennlawn, Flyer, Fortess, Ruby, or Salem	15	0.34	E - P	4 - 7	C - D	grass that will provide erosion protection while the warm-season grass (switchgrass or coastal panicgrass) is
Plus <u>one</u> of the following legumes:							becoming established.
Partridge Pea (Chamaecrista fasciculate)	Common	4	0.09				Switchgrass, coastal panicgrass, the
Bush Clover (Lespedeza capitata)	Common	2	0.05				'Dawson' variety of creeping red fescue,
Wild Indigo (Baptisia tinctoria)	Common	2	0.05				tolerant. Do not use bush clover or wild indigo on wet sites.
Big Bluestem (Andropogon gerardii)	Niagara or Rountree	6	0.14				All species are native to Maryland.
Indiangrass (Sorghastrum nutans)	Rumsey	6	0.14				The indiangrass and bluestems have fluffy seeds. Plant with a specialized
Little Bluestem (Schizachyrium scoparium)	Aldous or Blaze	4	0.09				native seed drill.
Creeping Red Fescue (Festuca rubra var. rubra)	Dawson, Pennlawn, Flyer, Fortess, Ruby, or Salem	15	0.34	E MW	6 9	C D	Creeping red fescue is a cool-season grass that will provide erosion protection while the warm-season grasses are becoming established
Plus <u>one</u> of the following legumes:					0 - 8		grusses are occoming established.
Partridge Pea (Chamaecrista fasciculata)	Common	4	0.09				
Bush Clover (Lespedeza capitata)	Common	2	0.05				
Wild Indigo (Baptisia tinctoria)	Common	2	0.05				
Showy Tick-Trefoil (Desmodium canadense)	Common	1	0.02				

Table B.5: Recommended Planting Dates for Permanent Cover in Maryland ^{1/}

		Plant Hardiness Zones	
	5b and 6a	6b	7a and 7b
rs r legumes)	Mar 15 to May 31 Aug 1 to Sep 30	Mar 1 to May 15 Aug 1 to Oct 15	Feb 15 to Apr 30 Aug 15 to Oct 31 Nov 1 to Nov 30♦
-Season Grass Mixes	Mar 15 to May 31 ♦ ♦	Mar 1 to May 15♦♦	Feb 15 to Apr 30 ♦ ♦
r legumes)	Jun 1 to Jun 15*	May 16 to Jun 15*	May 1 to May 31*
	Mar 15 to May 31	Mar 1 to May 15	Feb 15 to Apr 30
	Jun 1 to Aug 31*	May 16 to Sep 14*	May 1 to Sep 30*
	Sep 1 to Nov 1*✦	Sep 15 to Nov 15*+	Oct 1 to Dec 1*+
; Bare-Root Plants;	Mar 15 to May 31	Mar 1 to May 15	Feb 15 to Apr 30
nd Tubers ^{2/}	Jun 1 to Jun 30*	May 16 to Jun 30*	May 1 to Jun 30*
l-and-Burlapped	Mar 15 to May 31	Mar 1 to May 15	Feb 15 to Apr 30
	Jun 1 to Jun 30*	May 16 to Jun 30*	May 1 to Jun 30*
	Sep 1 to Nov 15*★	Sep 15 to Nov 30* +	Oct 1 to Dec 15*★

1. The planting dates listed are averages for each zone. These dates may require adjustment to reflect local conditions, especially near the boundaries of the zones. When seeding toward the end of the listed planting dates, or when conditions are expected to be less than optimal, select an appropriate nurse crop from Table B.1 Temporary Seeding for Site Stabilization and plant together with the permanent seeding mix.

2. When planted during the growing season, most of these materials must be purchased and kept in a dormant condition until planting. Bare-root grasses are the exception—they may be supplied as growing (non-dormant) plants.

• Additional planting dates for the lower Coastal Plain, dependent on annual rainfall and temperature trends. Recommend adding a nurse crop, as noted above, if

♦ ♦ Warm-season grasses need a soil temperature of at least 50 degrees F in order to germinate. If soil temperatures are colder than 50 degrees, or moisture is not adequate, the seeds will remain dormant until conditions are favorable. In general, planting during the latter portion of this period allows more time for weed emergence and weed control prior to planting. When selecting a planting date, consider the need for weed control vs. the likelihood of having sufficient moisture for

* Additional planting dates during which supplemental watering may be needed to ensure plant establishment.

+ Frequent freezing and thawing of wet soils may result in frost-heaving of materials planted in late fall, if plants have not sufficiently rooted in place. Sod usually needs 4 to 6 weeks to become sufficiently rooted. Large containerized and balled-and-burlapped stock may be planted into the winter months as long as

Table B.6: Maintenance Fertilization for Permanent Seeding

ing Mixture	Туре	lb/ac	lb/1000 sf	Time	Mowing
kes up 70 percent or	10-10-10 or 30-10-10	500 400	11.5 9.2	Yearly or as needed. Fall	Not closer than 3 inches, if occasional mowing is desired.
pil.	0-20-0	400	9.2	Spring, the year following establishment, and every 4 to 5 years, thereafter.	Mow no closer than 2 inches.
stand of tall fescue or l.	5-10-10	500	11.5	Fall, the year following establishment, and every 4 to 5 years, thereafter.	Not required, no closer than 4 inches in the fall after seed has matured.
grass fairly uniform on.	5-10-10	500	11.5	Spring, the year following establishment, and every 3 to 4 years, thereafter.	Not required, not closer than 4 inches in fall after seed has matured.
gs fescue, Kentucky l fescue mixtures.	20-10-10	250 100	5.8 2.3	September, 30 days later. December, May 20, June 30, if needed.	Mow no closer than 2 inches for red fescue and Kentucky bluegrass, 3 inches for fescue.



____ F. **B-4 VEGETATIVE STABILIZATION**

Sediment control practices must remain in place during grading, seedbed preparation, 1. seeding, mulching, and vegetative establishment.

____ 5.

- _____ 2. Inspect seeded areas for vegetative establishment and make necessary repairs,
 - replacements and reseeding within the planting season.
 - Adequate vegetative stabilization requires 95 percent groundcover. a. If an area has less than 40 percent groundcover, restabilize following the b. original recommendations for lime, fertilizer, seedbed preparation and
 - seeding.
 - ____ C. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
 - Maintenance fertilizer rates for permanent seeding are shown below d.
 - in Table B.6.
 Table B 6[•]
 Maintenance Fertilization for Permanent Seeding

140	IC D.0. IVI	annenane		tion for remanent see	ting
Seeding Mixture	Туре	lb/ac	lb/100	Time	Mowing
Tall fescue makes up 70 percent	10-10-10-	500	11.5	Yearly as needed.	No closer than 3 inches, if
or more of cover	Or			Fall	occasional mowing is desired.
	30-10-10	400	9.2		
Red & chewing fescue,		250	5.8	September, 30 days later.	Mow no closer than 2 inches
Kentucky				December, May 20, June	for red fescue and Kentucky
Bluegrass, hard	20-10-10	100	2.3	30, if needed.	bluegrass, 3 inches for fescue.
Fescue mixtures.					

B-4-1 Incremental Stabilization

4.

- a. Cut Slopes (1) Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.
 - Note: Once excavation has begun the operation shall be continuous (2) from grubbing through completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or (completing the operation out of the seeding season)
- will necessitate the application of temporary stabilization. _____ b. Fill Slopes
 - (1) Construct and stabilize fill slopes in increments not to exceed 15 _____ feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.
 - (2) Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.
 - At the end of each day, install temporary water conveyance practice(s), (3) as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner. (4) Note: Once the placement of fill has begun the operation shall be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the
 - operation out of the seeding season will necessitate the application of temporary stabilization.
- **B-4-2** Soil Preparation, Topsoiling and Soil Amendments
- Soil Preparation a.
- (1) Temporary Stabilization ____ (a) Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, 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. Apply fertilizer and lime as prescribed on these plans. (b) _____ Incorporate lime and fertilizer into the top 3 to 5 inches of (c) _____
 - soil by discing or other suitable means. (2) Permanent Stabilization
 - (a) A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
 - (i) Soil pH between 6.0 and 7.0. _____
 - Soluble salts less than 500 parts per million (ii) _____
 - (iii) 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.
 - (iv) Soil contains 1.5 percent minimum organic matter by weight.
 - (v) Soil contains sufficient pore space to permit adequate root penetration.
 - Application of amendments or topsoil is required if on-site (b) soils do not meet the above conditions.
 - Graded areas must be maintained in a true and even grade as (c) _____ specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
 - Apply soil amendments as specified on the approved plan or (d) _____ 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 to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. 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 leaving 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 loosen and friable. Seedbed loosening may be unnecessary on newly disturbed areas.
- Topsoiling b.
 - (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.
 - Topsoiling is limited to areas having 2:1 for flatter slopes where: (3) (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 plants 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		c.	Mulch	n Mater	ials (in order of preference)
		(5)	and design.			(1)	Straw	consisting of thoroughly threshed wheat, rye, oat, or bas easonably bright in color. Straw is to be free of novious
		(5)	Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:				seeds	as specified in the Maryland Seed Law and not musty, n
			(a) Topsoil must be a loam, sandy loam, clay loam, silt loam,				caked	, decayed, or excessively dusty. Note: Use only sterile
			sandy clay loam, or loamy sand. Other soils may be used if			$\langle 0 \rangle$	mulcl	in areas where one species of grass is desired.
			recommended by an agronomist or soil scientist and approved			(2)	Wood	Cellulose Fiber Mulch (WCFM) consisting of specially red wood cellulose processed into a uniform fibrous phy
			by the appropriate approval authority. Topsoil must not be a				state	red wood centrose processed into a uniform librous phy
			mixture of contrasting textured subsoils and must contain less				(a)	WCFM is to be dyed green or contain a green dye in the
			fragments gravel sticks roots trash or other materials larger					package that will provide an appropriate color to facili
			than $1\frac{1}{2}$ inches in diameter.					visual inspection of the uniformly spread slurry.
			(b) Topsoil must be free of noxious plants or plant parts such as				(b)	WCFM, including dye, must contain no germination of
			Bermuda grass, quack grass, Johnson grass, nut sledge, poison				(c)	growth inhibiting factors. WCEM materials are to be manufactured and processe
			ivy, thistle, or others as specified.				(0)	such a manner that the wood cellulose fiber mulch will
			(c) Topson substitutes of amendments, as recommended by a qualified agronomist or soil scientist and approved by the					remain in uniform suspension in water under agitation
			appropriate approval authority, may be used in lieu of natural					will blend with seed, fertilizer and other additives to for
			topsoil.					homogeneous slurry. The mulch material must form a
		(6)	Topsoil Application					like ground cover, on application, having moisture abs
			(a) Erosion and sediment control practices must be maintained					in contact with the soil without inhibiting the growth of
			when applying topsoli.					grass seedings.
			(b) Uniformly distribute topsoil in a 5 to 8 inch layer and lightly				(d)	WCFM material must not contain elements or compou
			compacted to a minimum thickness of 4 inches. Spreading is to				()	at concentration levels that will be phyto-toxic.
			be performed in such a manner that sodding or seeding can				(e)	WCFM must conform to the following physical requir fiber length of approximately 10 millimeters, diameter
			tillage. Any irregularities in the surface resulting from					approximately 1 millimeter, pH range of 4.0 to 8.5, asl
			topsoiling or other operations must be corrected in order to					of 1.6 percent maximum and water holding capacity of
			prevent the formation of depressions or water pockets.					90 percent minimum.
			(c) Topsoil must not be placed if the topsoil or subsoil is in a		d.	Mulch	1 Applic	cation
			wet, or in a condition that may otherwise be detrimental to			(1) (2)	Apply When	straw mulch is used spread it over all seeded areas at the
			proper grading and seedbed preparation.			(2)	of 2 to	ons per acre to a uniform loose depth of 1 to 2 inches. A
	C	Soil /	Amendments (Fertilizer and Lime Specifications)				mulch	to achieve a uniform distribution and depth so that the
	U .	(1)	Soil tests must be performed to determine the exact ratios and				surfac	e is not exposed. When using a mulch anchoring tool, i
		(*)	application rates for both lime and fertilizer on sites having			(2)	the ap	plication rate to 2.5 tons per acre.
			disturbed areas of 5 acres or more. Soil analysis may be performed			(3)	W 000	t of 1 500 pounds per acre. Mix the wood cellulose fibe
			by a recognized private or commercial laboratory. Soil samples taken				weigh	to attain a mixture with a maximum of 50 pounds of wo
		(2)	for engineering purposes may also be used for chemical analysis.				cellul	ose fiber per 100 gallons of water.
		(2)	for accurate application by appropriate equipment Manure may be		e.	Mulch	n Ancho	oring
			substituted for fertilizer with prior approval from the appropriate			(1)	Perfor	m mulch anchoring immediately following application
			approval authority. Fertilizers must all be delivered to the site fully				mulch	to minimize loss by wind or water. This may be done the following methods (listed by preference), depending
			labeled according to the applicable laws and must bear the name, trade				size o	f the area and erosion hazard.
		(2)	name or trademark and warranty of the producer.				(a)	A mulch anchoring tool is a tractor drawn implement of
		(3)	be substituted except when hydroseeding) which contains at least 50				(u)	punch and anchor mulch into the soil surface a minimu
			percent total oxides (calcium oxide plus magnesium oxide).					This practice is most effective on large areas, but is lin
			Limestone must be ground to such fineness that at least 50 percent					slopes where equipment can operate safely. If used on
			will pass through a #100 mesh sieve and 98 to 100 percent will pass				(b)	this practice should follow the contour.
			through a #20 mesh sieve.				(D)	Apply the fiber har a pet dry weight of 750 pour
		(4)	Lime and fertilizer are to be evenly distributed and incorporated into the ten 3 to 5 inches of soil by disking or other suitable means					acre. Mix the wood cellulose fiber with water at a max
		(5)	Where the subsoil is either highly acidic or composed of heavy clays					of 50 pounds of wood cellulose fiber per 100 gallons of
		(0)	spread ground limestone at the rate of 4 to 8 tons/acre (200-400				(c)	Synthetic binders such as Acrylic DLR(Agro-Tack), D
			noundariant 1,000 gauges fact) arises to the placement of tangoil					Detreget Terre Terr II Terre Teels AD on other engineers
			pounds per 1,000 square reer) prior to the placement of topsoli.					Petrosel, Terra Tax II, Terra Tack AR or other approve
5.	B-4-3	3 Seedin	ng and Mulching					may be used. Follow application rates as specified by
5.	B-4-3 a.	3 Seedin Seedi	ng and Mulching ing Specifications					may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to b heavier at the edges where wind catches mulch, such a
5.	B-4-3 a.	3 Seedin Seedi (1)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All					may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to b heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder
5.	B-4-3 a.	3 Seedin Seedi (1)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory.					may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to b heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited.
5.	B-4-3 a.	3 Seedin Seedi (1)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to				(d)	may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to b heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu
5.	B-4-3 a.	3 Seedin Seedi (1)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available				(d)	may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to b heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3
5.	B-4-3 a.	3 Seedin Seedi (1)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.				(d)	may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to b heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long.
5.	B-4-3 a. 	3 Seedin Seedi (1)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if	6	R-4-4		(d) Drary S	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long.
5.	B-4-3 a.	3 Seedin Seedi (1) (2)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground that	6.	B-4-4	—— Tempo a.	(d) orary S Expos	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization ted soils where ground cover is needed for a period of 6
5.	B-4-3 a.	3 Seedin Seedi (1) (2)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.	6.	B-4-4	—— Tempo a.	(d) orary S Expos or less	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization sed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization period.
5.	B-4-3 a.	3 Seedin Seedi (1) (2)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.	6.	B-4-4	 Tempo a.	(d) Drary S Expos or less are re	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization sed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization p quired.
5.	B-4-3 a.	 3 Seedin Seedi (1) (2) (3) 	 ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. 	6.	B-4-4 	 a.	(d) Drary S Expos or less are red (1)	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization sed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization period. Select one or more of the species or seed mixtures lister Table D. 1 for the appropriate Diart Hardinges Zang (feet Select Selec
5.	B-4-3 a. 	 3 Seedin Seedin (1) (2) (3) 	 ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. Inoculants: The inoculants for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the 	6.	B-4-4 ——	 a.	(d) Drary S Expose or less are rea (1)	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mutaccording to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization sed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization pequired. Select one or more of the species or seed mixtures lister Table B.1 for the appropriate Plant Hardiness Zone (fr Figure B 3) and enter them in the Temporary Seeding
5.	B-4-3 a. 	3 Seedin Seedi (1) (2) (3)	ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. Inoculants: The inoculants for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the nearbare.	6.	B-4-4	 a.	(d) Drary S Expose or less are rea (1)	 Petroset, Terra Tax II, Terra Tack AR of other approved may be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization sed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization p quired. Select one or more of the species or seed mixtures lister Table B.1 for the appropriate Plant Hardiness Zone (fr Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding
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5.	B-4-3 a.	 3 Seedin Seedin (1) (2) (3) (4) Seedin (1) (1) (2) (3) (3) (3) (1) 	 points per 1,000 square reery prior to the placement of topsoli. ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must the sequirements of the Maryland State Seed Law. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. Inoculants: The inoculants for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydrosceding. Note: It is very important to keep inoculants as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculants less effective. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has clapsed (14 days min.) to permit dissipation of phyto-toxic materials. (b) Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil orbit, which has seed to soil contact. (b) Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact. (b) Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Hydroseeding: Apply seed uniformly with hydroseede	6.	B-4-4	Tempo a. Perman Expose Seed M (1)	 (d) (d) (expose or less or less or less are red (1) (2) (3) (3) (1) (2) (3) (3) (4) (5) (6) (7) (7) (7) (8) (7) (7) (7) (8) (7) (7) (8) (9) (1) (1) (1) (1) (1) (2) (3) (1) (1) (2) (3) (3) (4) (5) (6) (7) (7) (7) (8) (9) (1) (1) (1) (1) (1) (2) (3) (4) (5) (6) (7) (7) (7) (7) (8) (9) (9) (1) (1) (1) (1) (2) (3) (4) (5) (5) (6) (7) (1) (1)	 Petroset, Ferra Tax II, Ferra Tax AR or other approvemany be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization red soils where ground cover is needed for a period of 6. For longer duration of time, permanent stabilization paured. Select one or more of the species or seed mixtures listed Table B.1 for the appropriate Plant Hardiness Zone (ff Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding and seeding depths. If this Summary is not put on the and completed, then Table B.1 plus fertilizer and lime must be put on the plan. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests arequired for Temporary Seeding. When stabilization is required outside of a seeding sea apply seed and mulch or straw mulch alone and mainta until the next seeding season. bilization where ground cover is needed for 6 months or more. I Use Select one or more of the species or mixtures listed in 1 for the appropriate Plant Hardiness Zone (from Figure E based on site condition or purpose found on Table B.2. selected mixture(s), application rates and seeding dates shore line, stream banks, or dures or for special purposi wildlife or aesthetic treatment may be found in USDA-1 Technical Field Office Guide, Section 342-Critical Area For sites having disturbed area over 5 acres, use and shore recommended by the soil esting agency. For areas receiving low maintenance, apply urea form fi the Permanent Seeding Summary. For areas receiving low maintenance,
5.	B-4-3 a.	 3 Seedin Seedin (1) (2) (3) (4) Seedin (1) (2) (3) (3) (3) (1) 	 points per 1,000 square rect prior to the placement of objoin. ang and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. Inoculants: The inoculants for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculants as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculants less effective. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials. (a) Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3 or site-specific seeding summaries. (b) Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact. (b) Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Hut seed here, Apply half the seeding rate in each direction. (b) Apply seed in t	6.	B-4-4	Tempo a. Perman Expose Seed M (1) (2)	 (d) orary S Expose or less are reading (1) (2) (3) ent Sta disoils fixtures Generadia (a) (b) (c) (d) Turfgration (a) (b)	 Petroset, Ferra Tax II, Ferra Tax AR or other approvemany be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the mu according to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 3 feet long. tabilization wed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization pruired. Select one or more of the species or seed mixtures listed Table B.1 for the appropriate Plant Hardiness Zone (fr Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding and seeding depths. If this Summary is not put on the and completed, then Table B.1 plus fertilizer and lime must be put on the plan. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests ar required for Temporary Seeding. When stabilization is required outside of a seeding sea apply seed and mulch or straw mulch alone and mainta until the next seeding season. bilization where ground cover is needed for 6 months or more. 1 Use Select one or more of the species or mixtures listed in for the appropriate Plant Hardiness Zone (from Figure E based on site condition or purpose found on Table B.2. selected mixture(s), application rates and seeding dates shorelines, steam banks, or dures or for special purpos wildlife or aesthetic treatment may be found in USDA-1 Technical Field Offsee Guide, Section 342-Critical Area For sites having disturbed area over 5 acres, use and shorecommended by the soil testing agency. For areas receiving low maintenance, apply urea form fi (46-0-0) at <i>A</i> pounds per 1,000 square feet (150 pound at the time of seeding Sum
5.	B-4-3 a.	 3 Seedin Seedin (1) (2) (3) (4) Seedin (1) (2) (1) (2) (3) (3) (1) 	 points per 1,000 square reci prior to the placehean of topsoli. ng and Mulching ing Specifications All seed must the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. Inoculants: The inoculants for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculants less effective. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has clapsed (14 days min.) to permit dissipation of phyto-toxic materials. Mapplication Dry Seeding: This includes use of conventional drop or broadcast spreader. (a) Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table and the wide seeding rate in each direction. Roll the seeded are with a weighted roller to provide good seed to soil contact. Drylp seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeding rate in each direction. Mytphy seed freque the acht direction.	6.	B-4-4 R-4-5 I a. b.	Tempo a.	 (d) (d) (expose or less or less or less or less are red (1) (2) (3) (3) (1) (2) (3) (3) (4) (5) (6) (7) (7) (7) (8) (7) (7) (7) (8) (7) (7) (8) (9) (1) (1) (1) (1) (1) (2) (3) (1) (1) (2) (3) (3) (4) (5) (6) (7) (7) (7) (7) (7) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (2) (3) (1) (1) (2) (3) (1) (2) (3) (3) (4) (5) (5) (6) (7) 	retroset, Terra Tax II, Terra Tax A K of ordier approximaly be used. Follow application rates as specified by manufacturer. Application of liquid binders needs to heavier at the edges where wind catches mulch, such a valleys and on crests of banks. Use of asphalt binder strictly prohibited. Lightweight plastic netting may be stapled over the millication to manufacturer recommendations. Netting usually available in rolls 4 to 15 feet wide and 300 to 2 feet long. tabilization seed soils where ground cover is needed for a period of 6 s. For longer duration of time, permanent stabilization pured. Select one or more of the species or seed mixtures liste Table B.1 for the appropriate Plant Hardiness Zone (fr Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding and seeding depths. If this Summary is not put on the and completed, then Table B.1 plus fertilizer and lime must be put on the plan. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests arequired for Temporary Seeding. When stabilization is required outside of a seeding sea apply seed and mulch or straw mulch alone and maintuit the next seeding season.

		(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		
rley			Recommended Certified Kentucky Bluegrass Cultivars		
weed			Seeding Rate: 1.5 to 2.0 pounds per 1,000 square feet.	SNOL	2
noldy,			Choose a minimum of three Kentucky bluegrass cultivars		- -
estraw			by weight.	L CORVIA	R S
I					
vsical				Ree's co	-
he		١			A
itate				P R N	<u> </u>
		(ii)	Kentucky Bluegrass/Perennial Rye: Full Sun Mixture:		~
or			For use in full sun areas where rapid establishment is		018
ed in			necessary and when turf will receive medium to intensive management Certified Perennial Ryegrass Cultivars/Certified		A A
1			Kentucky Bluegrass Seeding Rate: 2 pounds mixture per		NIN IN
and			1,000 square feet. Choose a minimum of three Kentucky		√ /IR(934
orm a			bluegrass cultivars with each ranging from 10 to 35 percent		93.2
sorption		(iii)	Tall Pescue/Kentucky Bluegrass: Full Sun Mixture:		NTO 33.39
ass seed		()	For use in drought prone areas and/or for areas receiving		S CC S CC S CC
of the			low to medium management in full sun/to medium shade.		ARES VAR 1.RE
unda			Recommended mixture includes: Certified Tall Fescue		A 0.45
mus			Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per		A 393. V
ements:			1,000 square feet. One or more cultivars may be blended.		GS, 03.35
- -		(iv)	Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use		T A P A
h content			in areas with shade in Bluegrass lawns. For establishment		
Ι			includes: Certified Kentucky Bluegrass Cultivars 30 to 40		Ē
			percent and Certified Fine Fescue and 60 to 70 percent.		367
			Seeding Rate: $1\frac{1}{2}$ to 3 pounds per 1,000 square feet.		56
he rate			Notes: /		
apply soil			Sciect turigrass varieties from those listed in the most current University of Maryland Publication Agronomy		
ncrease			Memo #77, "Turfgrass Cultivar Recommendation for	${\mathbb A}$	
			Maryland".		
lry			Choose certified material./Certified material is the best	μZΖ	
er with			guarantee of cultivar purity. The certification program	F Q X	\sim
DOQ			of the Maryland Department of Agriculture, Turf and Seed Section, provides a/reliable means of consumer	ΨŪ Ū,Υ	10
			protection and assures a pure genetic line.		2
of	(c)	Ideal 7	imes of Seeding for Turf Grass Mixtures		<u>َ</u>
by		Centra	1 MD: March 1 to May 15, August 15 to October 15		
g upon		(Hardi	ness Zone: 6b) V m MD Eastern Sharov March 1 to May 15 August 15 to		אי בי
designed to		Octobe	er 15 (Hardiness Zones: 7a)		–
um of 2 inches	(d)	Till ar	eas to receive seed by discing or other approved methods to		1 0
nited to flatter		a deptl	n of 2 to 4 inches, level and rake the areas to prepare a proper	5000E F	
n sloping land,		seedbe	d. Remove stones and debris over $1\frac{1}{2}$ inches in diameter.		
		The re	sulting seedbed must be in such condition that future mowing		
de ner	(e)	If soil	moisture is deficient, supply new seedings with adequate	i ster z t L	J X
ximum	()	water	for plant growth ($\frac{1}{2}$ to 1 inch every 3 to 4 days depending		ר ס
of water.		on soil	texture) until they are firmly established. This is especially		μ
DCA-70,		true w	hen seedings are made late in the planting season, in abnormally	THUNK O	\mathcal{O} \mathcal{O}
ed equal		ary or	not seasons, or on adverse sites	0 <u>4</u> 43 L	Ш ш
ne c.	Sod: To pr	ovide q veral Sn	uick cover on disturbed areas (2) grade or flatter).	$\square \subseteq \ge \ge$	<u>ں</u>
is in	(1) (a)	Cla	as of turfgrass sod must be Maryland Certified. Sod labels		Z
·s is	(1)	mus	t be made available to the job foreman and inspector.		Ř
1.1	(b)	Sod	must be machine cut at a uniform soil thickness of ³ / ₄ inch,	R ≫ O E	Δ.
ulch		plus	or minus 1/4 inch, at the time of cutting. Measurement for		
3,000		torn	or uneven ends will not be acceptable	шĔΖ	
,	(c)	Star	dard size sections of sod must be strong enough to support	도 있 뜨	
	()	thei	r own weight and retain their size and shape when suspended	こ	
months		vert	ically with a firm grasp on the upper 10 percent of the section.	шU	
practices	(d)	500 (exc	must not be narvested or transplanted when moisture content ressively dry or wet) may adversely affect its survival		
ed in	(e)	Sod	must be harvested, delivered, and installed within a period of	STAMP/SEAL:	
om	(*)	361	nours. Sod not transplanted within this period must be approved	HEREBY CERTIFY THA	T THESE
 		by a	in agronomist or soil scientist prior to its installation.	DOCUMENTS WERE PR	EPARED OR
dates	(2) Sod (2)	installa. ייייס	uun: inc periods of excessively high temperature or in areas having) THAT I AM A
plan rates	(a)	drv	subsoil, lightly irrigate the subsoil immediately prior to laving	ENGINEER UNDER THE	LAWS OF
Tates		the	sod.	THE STATE OF MARYLA	ND, LICENSE
e	(b)	Lay	the first row of sod in a straight line with subsequent rows	6/14/2024	DATE:
re not		plat 12to	red parallel to it and tightly wedged against each other. Stagger	UNTE OF MA	ARYL
son		Ens	ure that sod is not stretched or overlapped and that all joints	S. F.	11. N. N
ain		are	butted tight in order to prevent voids which would cause air		A . /
		dryi	ng of the roots.	1 all	mu
	(c)	/Wh	erever possible, lay sod with the long edges parallel to the tour and with staggering joints. Roll and tamp, per or otherwise		2
			are the sod to prevent slippage on slopes. Ensure solid contact	ILL SOLO	ENGINI
/		/ exis	ts between sod root sand the underlying soil surface.	· · · · · · · · · · · · · · · · · · ·	```10/31/2023
	(d)	/ Wa	er the sod immediately following rolling and tamping until	30% DESIGN REVIEW	
	/	the	underside of the new sod pad and soil surface below the sod		
able B.3	/	are and	irrigating for any piece of sod within eight hours	<u> </u>	N/A
B.3) and	/	unu	one of the or the second of th	Signature	Date
Enter		[oint -		PERMIT PLAN DESIGN	REVIEW
laced on	(3) SOU M (a)	In the	absence of adequate rainfall water daily during the first	Dailey Willying	5/11/23
-	— Ÿ	week	or as often and sufficiently as necessary to maintain moist	Signature	Date
such as	/	soil to	a depth of 4 inches. Water sod during the heat of the day to	CONSTRUCTION PLAN	I REVIEW
es such as		preven	it wilting.		
a Planting	— / ^(b)	Atter	in adequate moisture content	<u>x BRIANA STEPHENS</u>	<u>5 //25/23</u> Date
ow the rates	/ (c)	Do no	t mow until the sod is firmly rooted. No more than 1/3 of	REVISIONS	Dale
		the gra	ass leaf must be removed by the initial cutting or subsequent \setminus	1ST SUBMISSION: 7 6 0	023
ertilizer	/	cutting	gs. Maintain a grass height of at least 3 inches unless otherwise	101 000101010101. /-0-20	
s per acre)	Notes Has of	specif	ea. Formation does not preclude meeting all of the requirement	2ND SURMISSION: 0.03	2023
U	of the 2011 N	arvlan	d Standards and Specifications for Soil Erosion and Sediment		
	¢ontrol – B-4	4 Veget	ative Stabilization.		
urks,	1	5			
medium to					IN A
ow based				DESIGNED:	CD
·e(s),				DRAWN:	CD
eding				JOB NUMBER:	106683
\mathbf{X}				DESIGN TYPE:	ESC
					פניווניו דאוננו

SHEET NO: FSC SHEET 160F16