GENERAL NOTES

- 1. SUBJECT PROPERTY IS ZONED R-20 & "PGCC" PER THE 2/02/04 COMPREHENSIVE ZONING PLAN AND THE "COMP. LITE" ZONING
- THE ZONING REGULATIONS EFFECTIVE APRIL 13, 2004. PER SECTION 126.H.1.A, PLANNING BOARD APPROVAL WAS GRANTED ON APRI
- HOWARD COUNTY SOILS MAP

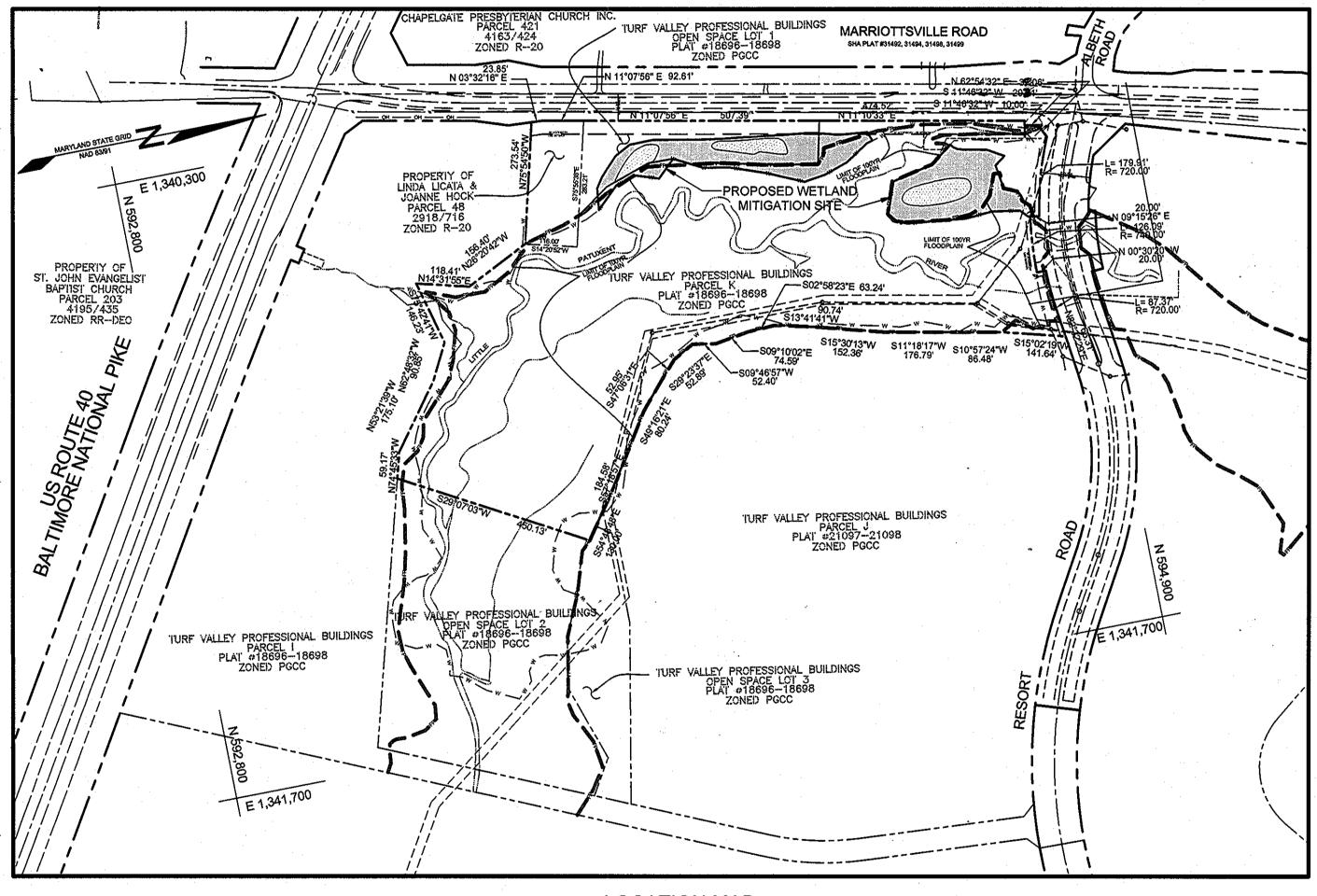
- - BGE(CONTRACTOR SERVICES)
- HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES

- OPEN SPACE LAND USE IN THE PGCC ZONING DISTRICT. PRIOR TO GRADING PERMIT APPLICATION A LETTER OF PERMISSION SHALL BE OBTAINED FROM THE OWNERS OF LOT 48 AUTHORIZING

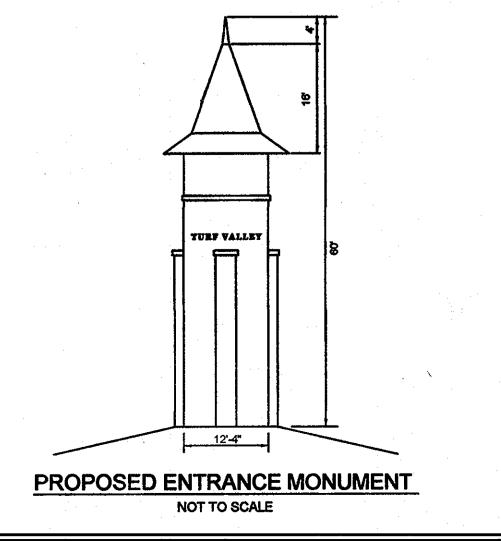
THE DEVELOPER TO CONDUCT ACTIVITIES ON THEIR PROPERTY

SITE DEVELOPMENT PLAN TURF VALLEY RESORT WETLAND MITIGATION SITE

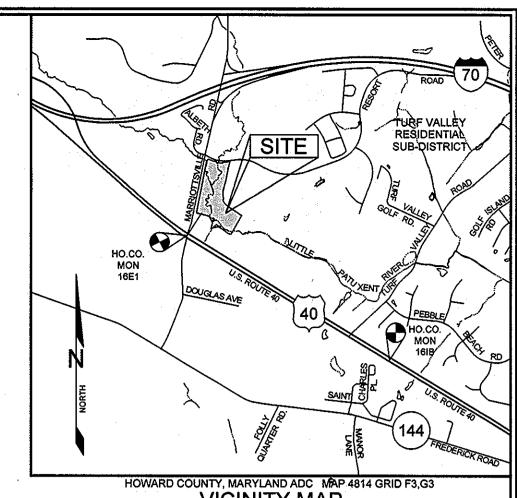
PARCEL 48, PARCEL K & OPEN SPACE LOT 1 TAX MAP 16 HOWARD COUNTY, MARYLAND



LOCATION MAP



of HOWARD COUNTY



VICINITY MAP

SHEET INDEX	
DESCRIPTION	
COVER SHEET	
WETLAND MITIGATION, GRADING, SEDIMENT & EROSION CONTROL, PLANTING PLAN AND X-SECTIONS	
WETLAND MITIGATION SCHEDULES, NOTES AND DETAILS	.:.
	DESCRIPTION COVER SHEET WETLAND MITIGATION, GRADING, SEDIMENT & EROSION CONTROL, PLANTING PLAN AND X-SECTIONS

	BENCHMARKS					
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION		
16IB	590,475.2538	1,344,753.9350	469.892	11.5' SOUTHWEST OF WBL RT. 40, 20.8' WEST OF PK NAIL IN SHOULDER, 66.4' SOUTH OF LAST POST IN GUARDRAIL		
16E1	593,250.9638	1,340,192.7010	463.893	ISLE AT COR. RTE 40 - MARRIOTTSVILLE RD 84.3 ' FROM TRAFFIC SIGNAL POST WBL 67.3 ' FROM TRAFFIC SIGNAL POST EBL		

SITE ANALYSIS DATA CHART						
TOTAL PROJECT AREA 17.74 AC+/-	AREA OF SUBMISSION 17.74 AC+/-	DISTURBED AREA 3.1475	PRESENT ZONING PGCC, R-20			
PROPOSED USE OPEN SPACE	FLOOR SPACE PER USE NA	TOTAL UNITS ALLOWED NA	TOTAL UNITS PROPOSED NA			
MAX. # EMPLY/TENANTS NA	PARKING SPACES REQ. NA	PARKING SPACES PROV. NA	HC SPACES PROVIDED NA			
OPEN SPACE REQUIRED NA	OPEN SPACE PROVIDED N/A	REC. O.S. REQUIRED NA	REC. O.S. PROVIDED NA			
BUILDING COVERAGE NA	ERAGE FLOOR AREA RATIO DPZ FILE REFERENCES NA SEE GENERAL NOTE #26					
	TOTAL PROJECT AREA 17.74 AC+/- PROPOSED USE OPEN SPACE MAX. # EMPLY/TENANTS NA OPEN SPACE REQUIRED NA BUILDING COVERAGE	TOTAL PROJECT AREA 17.74 AC+/- PROPOSED USE OPEN SPACE MAX. # EMPLY/TENANTS NA OPEN SPACE REQUIRED NA BUILDING COVERAGE AREA OF SUBMISSION 17.74 AC+/- FLOOR SPACE PER USE NA PARKING SPACES REQ. NA OPEN SPACE PROVIDED N/A FLOOR AREA RATIO	TOTAL PROJECT AREA 17.74 AC+/- 17.74 AC+/- 17.74 AC+/- PROPOSED USE OPEN SPACE NA MAX. # EMPLY/TENANTS NA OPEN SPACE REQUIRED NA OPEN SPACE REQUIRED NA BUILDING COVERAGE AREA OF SUBMISSION 17.74 AC+/- 17.7			

PERMIT INFORMATION CHART					
SUBDIVISION NAME TURF VALLEY PROFESSIONAL BUILDINGS			SECTION N	N/AREA /A	PARCEL # 8,48 & 50
PLAT 18697-18698	GRID# 16	ZONING PGCC /R-20	TAX MAP# 16	ELECT. DIS. 3RD	CENSUS TRACT 602303

OWNER/DEVELOPER MANGIONE ENTERPRISES OF TURF VALLEY, L 1205 YORK ROAD, PENTHOUSE LUTHERVILLE , MARYLAND 21093

COVER SHEET TURF VALLEY RESORT WETLAND MITIGATION SITE

PARCEL 48, TURF VALLEY PROFESSIONAL BUILDINGS. PARCEL K AND OPEN SPACE LOT 1

TAX MAP 16 GRID 16 3RD ELECTION DISTRICT

> 3300 North Ridge Road, Suite 160 Ellicott City, Maryland 21043 Phone: 443.325.7682 Fax: 443.325.7685

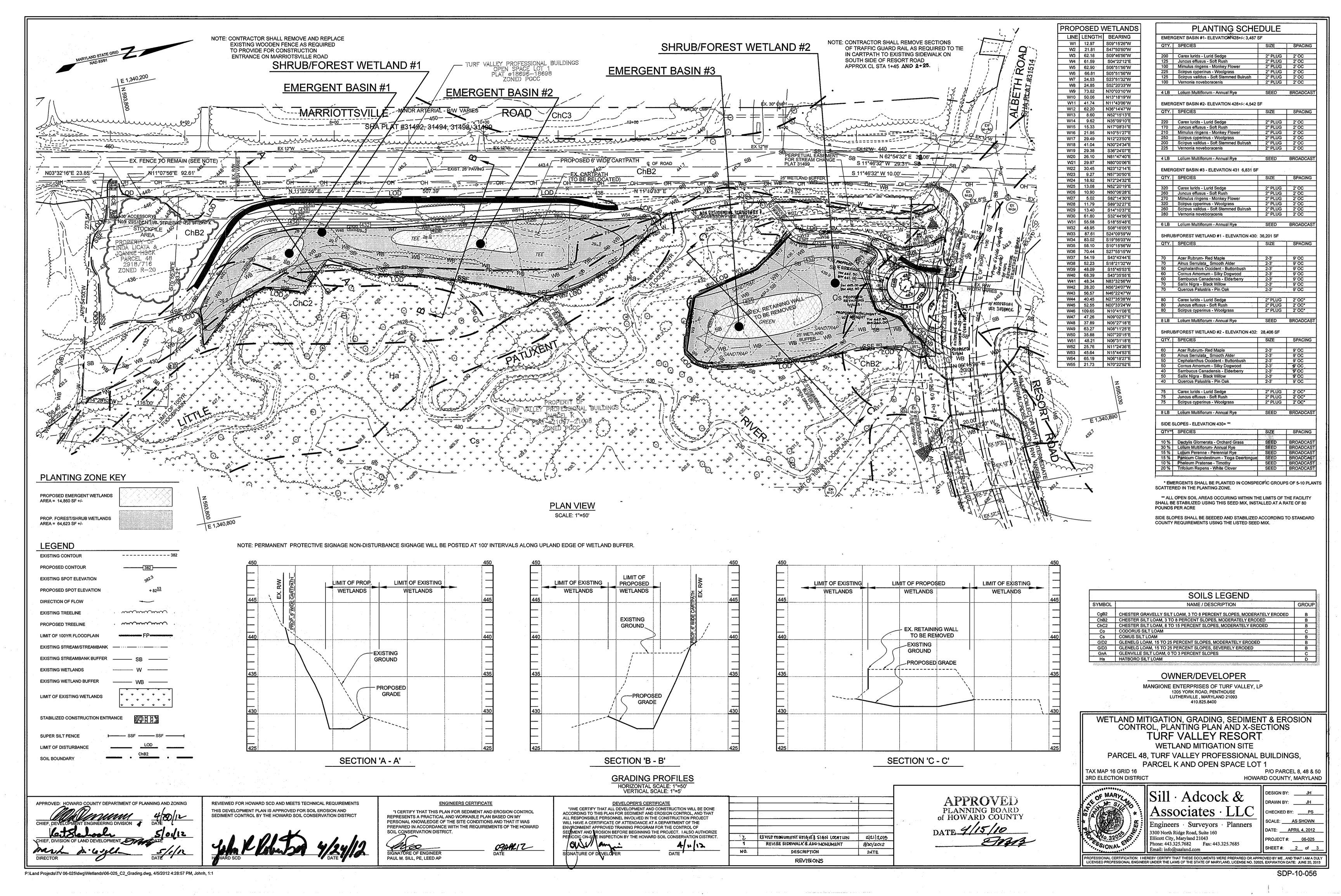
PROJECT#: ____06-025_

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ADD MONUMENT ELEVATION TO PLAN 2-21-2013 DESCRIPTION DATE **REVISIONS**

P/O PARCEL 8, 48 & 50

HOWARD COUNTY, MARYLAND



MITIGATION NOTES AND PROPOSAL

TURF VALLEY EAST/WEST AND MARRIOTTSVILLE ROAD ROAD WIDENING

THE MITIGATION OBLIGATION FOR THE SUBJECT PROJECT HAS BEEN DETERMINED TO BE 73. 785 SQ.FT. THIS MITIGATION OBLIGATION IS BASED ON A CALCULATION OF ALL MDE REGULATED WETLANDS IMPACTS REQUIRED FOR THE DEVELOPMENT OF THE TURF VALLEY COMMUNITY AND THE WIDENING OF MARRIOTTSVILLE ROAD. THIS INCLUDES THOSE AREAS DETERMINED TO BE NON-JURISTDICTIONAL BY THE CORPS OF ENGINEERS.

	IMPACT COVER TYPE	IMPACT SQ.FT.	MITIGATION OBLIGATION	MITIGATION PROVIDED
ŀ	FOREST	29,540	59,080	64,623
l	HERBACEOUS	14,705*	14,705	14,860
ĺ	TOTALS	44,245	73,785	79,483

*INCLUDES 1,800 SQ.FT. OF HERBACEOUS WETLANDS THAT WILL BE UNDER THE PROPOSED BRIDGE AND MAY BE AFFECTED BY SHADING BUT WILL NOT BE PHYSICALLY DISTURBED

THE IN-KIND MITIGATION WILL BE COMPLETED THROUGH THE CONSTRUCTION OF 84,521 SQ.FT. OF NON-TIDAL WETLANDS. THIS WETLAND CREATION WILL BE COMPLETED BY THE REMOVALOF FILL ASSOCIATED WITH THE EXISTING GOLF HOLES ALONG MARRIOTTSVILLE ROAD. A TWO HOLE TEE-GREEN COMPLEX IS PRESENT IN THIS AREA. THESE FACILITIES WERE CONSTRUCTED BY HISTORIC PLACEMENT OF FILL ADJACENT TO THE WETLAND/FLOODPLAIN COMPLEX. THE WETLAND CONSTRUCTION WILL INCLUDE THE REMOVAL OF OF THE FILL TO AN ELEVATION COMPARABLE TO THE ADJACENT WETLAND/FLOODPLAIN SYSTEM. THE AREA WILL THEN BE PLANTED WITH SHRUB AND FOREST PLANTINGS THAT WILL COMPLIMENT THE NATIVE WETLAND COMMUNITY.

WHERE POSSIBLE THE EXISTING CART PATH WILL BE RETAINED ALONG THE OUTER EDGE OF THE MITIGATION AREA TO PROVIDE RECREATIONAL/EDUCATIONAL OPPORTUNITIES FOR THE FUTURE RESIDENTS. WHERE THE PROPOSED GRADING CONFLICTS WITH THE EXISTING TRAIL, A CONNECTION TRAIL WILL BE DESIGNED WITHIN THE MITIGATION AREA.

AN UPLAND BUFFER WILL BE RETAINED BETWEEN THE PROPOSED MITIGATION AREA SITES AND MARRIOTTSVILLE ROAD. THIS AREA WILL BUFFER THE WETLANDS FROM ROAD RUNOFF,, NOISE AND DISTURBANCE. THE WETLAND MITIGATION AREA WILL BE PROTECTED FROM FUTURE DISTURBANCE BY A CONSERVATION EASEMENT.

Τl	JRF VALLEY EAST/WEST AND MARI		ROAD WIDE	ENING
NO.	IMPACT ID	COE "WATERS ONLY"	WETLAND	IMPACT
	1111 7101 15	STREAM IMPACTS	FOREST/SHRUB	
		01112 1111 1111 1111	(SF)	(SF)
1	RESORT ROAD CROSSING AT LITTLE	0	23,500	5,373
•	PATUXENT			1.800 CONVERSION
2	RESORT ROAD BETWEEN MANHOLES	0	0	1,000 00
~	113 - 114	Ĭ	*	
3	RESORT ROAD BETWEEN MANHOLES	0	0	
	144 -145 - BOTTOMLESS ARCH X-ING		*	
4	UTILITY CROSSING BETWEEN MANHOLES	0	0	
7	105 - 106	Ĭ	*	
5	UTILITY CROSSING BETWEEN MANHOLES	0 - BORE AND JACK	0	
٠	140 -149	PROPOSED		
6	RESORT ROAD -EAST END NEAR	270	4,994	531
•	INTERSECTION WITH TURF VALLEY ROAD	210	4,334) 331
7	UTILITY CROSSING BETWEEN MANHOLES	0	· · · · · · · · · · · · · · · · · · ·	-
′	101 AND EX. SEWER MAIN ALONG TURF VALLEY RD.	0	J	
_		0	<u> </u>	700
8	FUTURE ROAD (BRIDGE) CROSSING OF LITTLE	J		700
_	PATUXENT RIVER FOR POD J	60	<u> </u>	250
9	FUTURE ROAD AND UTILITY CROSSING FOR	60		250
40	POD J EXTENSION]
10	FUTURE ROAD, BOTTOMLESS ARCH AND UTILITY	0 - BORE AND JACK PROPOSED	0	
- 15	CROSSING AT MANHOLES 111 AND 112			
12	MARRIOTTSVILLE ROAD WIDENING AT ALBETH ROAD	100 SF		5,743
13	MARRIOTTSVILLE ROAD WIDENING	0		268
14	UTILITY EXTENSION	0	0	
• •	• · · · · · · · · · · · · · · · · · · ·		, -	
15	UTILITY EXTENSION	0	0	
. •				10
	EAST A- UTILITY CROSSING BETWEEN MANHOLES	0 - BORE AND JACK PROPOSED		40 - (TEMPORARY)
	162 AND 163			
	EAST B - FUTURE ROAD ALIGNMENT	0	271	
	EAST C - FUTURE ROAD ALIGNMENT	250	775	
	TOTAL IMPACTS	680	29,540	14,705

TURF VALLEY EAST/WEST AND MARRIOTTS/ILLE ROAD WIDENING TOTAL OVERALL MIMPACT CALCULATIONS	_		1						
NO. IMPACT B EMERGENT S EMERGENT S EMERGENT S EMERGENT S S S S S S S S S	E	NING						D WIDENIN	G
BEMERGENT (SF) S373 1,800 - COMPARISON 1 RESORT ROAD CROSSING AT LITTLE 28,873 * 0 0 8,450 0 0 0 0 0 0 0 0 0		UMBAGE		L				MDE BUESED	
(SF) 5,373 1,800 - COMMERSION 1 RESORT ROAD CROSSING AT LITTLE 28,873 * 0 0 0 8,450 PATUXENT 2 RESORT ROAD BETWEEN MANHOLES 0 0 0 5,110 113 - 114 3 RESORT ROAD BETWEEN MANHOLES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NO.	IMPACTID			MDE BUFFER	
1	В					IMPACT (SF)			Ç
PATUXENT						ļ		0.450	
RESORT ROAD BETWEEN MANHOLES				1		28,873 *	. .	8,450	
113.114		1,800 CONVERSION							
3 RESORT ROAD BETWEEN MANHOLES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				2		0	•	5,110	
144 -145 - BOTTOMLESS ARCH X-ING									
144-149-BOTTOMILESS ARCH A-ING				3		0	•	300 - TEMPORARY FOR	
105 - 106									
5				4		0	•	8,450	
140-149							0 FP		
6 RESORT ROAD -EAST END NEAR 5,525 270 17,900				5	UTILITY CROSSING BETWEEN MANHOLES	0		0	
INTERSECTION WITH TURF VALLEY ROAD 32,000 FP 7									
7		531		6	RESORT ROAD -EAST END NEAR	5,525		17,900	
101 AND EX. SEWER MAIN ALONG TURF VALLEY RD. 8,000 FP 700					INTERSECTION WITH TURF VALLEY ROAD				
Total marked State State				7	UTILITY CROSSING BETWEEN MANHOLES	0	0**	0	
PATUXENT RIVER FOR POD J 26,000 FP 250 60 1,500	•			'	101 AND EX. SEWER MAIN ALONG TURF VALLEY RD.				
250 9		700		8	FUTURE ROAD (BRIDGE) CROSSING OF LITTLE	700	0**	3,800	
POD J EXTENSION 0 FP 10 FUTURE ROAD, BOTTOMLESS ARCH AND UTILITY 0 0 - BORE AND JACK PROPOSED 1 0 0 - BORE AND JACK PROPOSED 1 0 0 - BORE AND JACK PROPOSED 1 0 0 0 0 0 0 0 0 0				<u> </u>	PATUXENT RIVER FOR POD J		26,000 FP		
10		250		9	FUTURE ROAD AND UTILITY CROSSING FOR	250	60	1,500	
CROSSING AT MANHOLES 111 AND 112					POD J EXTENSION		0 FP		
12 MARRIOTTSVILLE ROAD WIDENING AT ALBETH ROAD 5,743 100 SF 5,600 FP 6,600 F				10	FUTURE ROAD, BOTTOMLESS ARCH AND UTILITY	0	0 - BORE AND JACK PROPOSED	0	
13 MARRIOTTSVILLE ROAD WIDENING 268 0 2,242 0 FP 14 UTILITY EXTENSION 0 0 0 0 0 0 0 0 0					CROSSING AT MANHOLES 111 AND 112		0 FP		
13 MARRIOTTSVILLE ROAD WIDENING 268 0 2,242 14 UTILITY EXTENSION 0 0** 0 15 UTILITY EXTENSION 0 0 0** 0 40 - (TEMPORARY) EAST A- UTILITY CROSSING BETWEEN MANHOLES 40 0 - BORE AND JACK PROPOSED 1,000 162 AND 163 EAST B - FUTURE ROAD ALIGNMENT 271 0 0 FP EAST C - FUTURE ROAD ALIGNMENT 775 250 5,114 14,705 TOTAL IMPACTS 42,445 680 58,333	~~~	5,743		12	MARRIOTTSVILLE ROAD WIDENING AT ALBETH ROAD	5,743	100 SF	8,112	
14		-					5,600 FP		
14		268		13	MARRIOTTSVILLE ROAD WIDENING	268	0	2,242	
1,480 FP 15					·		0 FP		
15				14	UTILITY EXTENSION	0	0**	0	
15							1,480 FP		
40 - (TEMPORARY)				15	UTILITY EXTENSION	0		0	
40 - (TEMPORARY)						1	1,200 FP		
162 AND 163	_	40 - (TEMPORARY)			EAST A- UTILITY CROSSING BETWEEN MANHOLES	40		1,000	
EAST B - FUTURE ROAD ALIGNMENT 271 0 4,505 0 FP		,					1,200 FP	·	
BAST C - FUTURE ROAD ALIGNMENT 775 250 5,114 11,400 FP 14,705 TOTAL IMPACTS 42,445 680 58,333					EAST B - FUTURE ROAD ALIGNMENT	271		4,505	
EAST C - FUTURE ROAD ALIGNMENT							0 FP		
11,400 FP					EAST C - FUTURE ROAD ALIGNMENT	775		5,114	
14,705 TOTAL IMPACTS 42,445 680 58,333									
	_	14.705		· · · · ·	TOTAL IMPACTS	42,445		58,333	
		'.,. ••				[,		,	
			l			, t.,	,	<u> </u>	

* AN ADDITIONAL 1.800 SF OF VEGETATION CONVERSION IS REQUIRED. THIS IMPACT REGULATED BY MDE BUT NOT COE ** LIMIT OF DISTURBANCE OCCURING WITHIN 100 YEAR FLOODPLAIN *** CONSTRUCTION DRAWINGS WOULD BE AVAILABLE FOR MDE/COE **REVIEW 1-2 YEARS PRIOR TO THIS DATE**

ACRES:

i. PLACE TOPSOIL (IF REQUIRED) AND APPLY

STABILIZATION - SECTION I - VEGETATIVE

SPECIFICATIONS, OBTAIN TEST RESULTS

AMENDMENTS REQUIRED TO BRING THE

A. PH FOR TOPSOIL SHALL BE BETWEEN

DEMONSTRATES A PH OF LESS THAN

PRESCRIBED TO RAISE THE PH TO 6.5

6.0 AND 7.5. IF THE TESTED SOIL

6.0, SUFFICIENT LIME SHALL BE

B. ORGANIC CONTENT OF TOPSOIL

SHALL BE NOT LESS THAN 1.5

C. TOPSOIL HAVING SOLUBLE SALT

PER MILLION SHALL NOT BE USED.

D. NO SOD OR SEED SHALL BE PLACED

TREATED WITH SOIL STERILANTS OR

ON SOIL SOIL WHICH HAS BEEN

CONTROL UNTIL SUFFICIENT TIME

HAS ELAPSED (14 DAYS MIN.) TO

CHEMICALS USED FOR WEED

PERMIT DISSIPATION OF

PHYTO-TOXIC MATERIALS

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS

APPROPRIATE APPROVAL AUTHORITY, MAY BE

ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL

WHEN TOPSOILING, MAINTAIN NEEDED EROSION

AND SEDIMENT CONTROL PRACTICES SUCH AS

STRUCTURES, EARTH DIKES, SLOPE SILT FENCE

WHICH HAVE BEEN PREVIOUSLY ESTABLISHED,

SHALL BE MAINTAINED. ALBEIT 4"-8" HIGHER IN

iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN

A 4"-8" LAYER AND LIGHTLY COMPACTED TO A

MINIMUM THICKNESS OF 4". SPREADING SHALL

SODDING OR SEEDING CAN PROCEED WITH A

MINIMUM OF ADDITIONAL SOIL PREPARATION

SURFACE RESULTING FROM TOPSOILING OR

OTHER OPERATIONS SHALL BE CORRECTED IN

TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY

MAY OTHERWISE BE DETRIMENTAL TO PROPER

AND TILLAGE, ANY IRREGULARITIES IN THE

ORDER TO PREVENT THE FORMATION OF

V. TOPSOIL SHALL NOT BE PLACED WHILE THE

EXCESSIVELY WET OR IN A CONDITION THAT

GRADING AND SEEDBED PREPARATION.

DEPRESSIONS OR WATER POCKETS

CONDITION, WHEN THE SUBSOIL IS

BE PERFORMED IN SUCH A MANNER THAT

i. GRADES ON THE AREAS TO BE TOPSOILED.

AMENDMENTS A SPECIFIED IN 20.0 VEGETATIVE

STABILIZATION - SECTION I - VEGETATIVE

DIVERSIONS, GRADE STABILIZATION

AND SEDIMENT TRAPS AND BASINS.

TABILIZATION METHODS AND MATERIALS.

OR SOIL SCIENTIST AND APPROVED BY THE

USED IN LIEU OF NATURAL TOPSOIL.

V. TOPSOIL APPLICATION

AS RECOMMENDED BY A QUALIFIED AGRONOMIST

CONTENT GREATER THAN 500 PARTS

PERCENT BY WEIGHT.

ABILIZATION METHODS AND MATERIALS.

SOIL AMENDMENTS AS

I. ON SOIL MEETING TOPSOIL

OR HIGHER.

FOLLOWING:

SPECIFIED IN 20.0 VEGETATIV

III. FOR SITES HAVING DISTURBED AREAS OVER 5

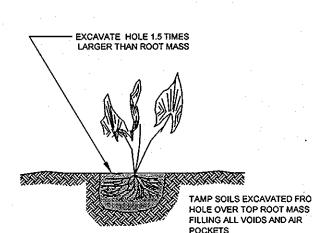
DICTATING FERTILIZER AND LIME

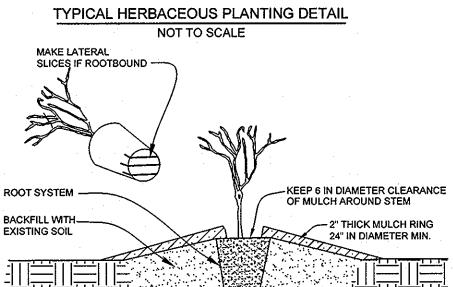
SOIL INTO COMPLIANCE WITH THE

NOTE: MULCHING NEWLY PLANTED SEEDLINGS HELPS THE SOIL RETAIN MOISTURE AN EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL THE SEEDLING FROM COMPACTION AND STEM INJURIES. 3. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER CORRECT PLANTING DEPTH

TOO DEEP AND TOO SHALLOW AND AT SAME DEPTH AS SEEDLING WAS GROWN ROOT IS BEN SEEDLING AND WHIP PLANTING DETAIL

NOT TO SCALE





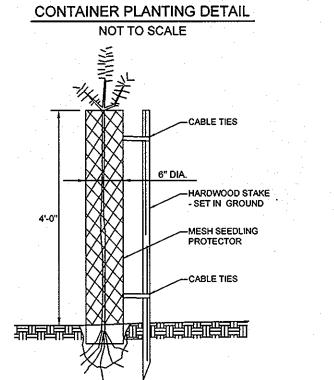
PLANTING PROCEDURE FOR CONTAINER GROWN PLANTS 1. REMOVE THE PLANT EITHER BY CUTTING OR INVERTING THE CONTAINER

3. PLANT SHRUBS ON FORMED UP MOUNDS 4" ABOVE THE EXISTING GRADE WHEN HIGH WATER TABLE CONDITIONS EXIST, OTHERWISE PLANT FLUSH WITH EXISTING GRADE.

2. USE A KNIFE TO CUT THROUGH BOTTOM HALF OF THE ROOT BALL.

4. PLANTING HOLE TO BE 2-3 TIMES THE DIAMETER OF THE CONTAINER. 5. INSERT FERTILIZER TABLET, BACKFILL 2/3 OF THE ROOT BALL AND WATER.

6. AFTER WATER PERCOLATES, BACKFILL HOLE TO TOP OF ROOT BALL AND GENTLY TAMP SOIL TO FIRM CONTACT WITH PLANT. 7. APPLY MULCH RING AROUND PLANT KEEPING A 6 IN CLEARANCE FROM STEM.



EADER MUST REMAIN INTAC -DO NOT HEAVILY PRUNE THE TREE AT PLANTING, PRUNE INCE AI POSITION, FINDE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES SOME INTERIOR TMIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN —2 STRANDS OF GALVANIZED WIRE TWISTED FOR SUPPOR -UPRIGHT STAKES- SET IN GROUND TO FIRM BEARIN 4. PLACE UPRIGHT STAKES PARALLEL TO WALKS & BEYOND EDGE OF ROOT BAL . KEEP MULCH 1" FROM TRUNK CUT BURLAP, ROPE AND WIR -MIN. 2" DEPTH MULCH @ 6'@ ---4" EARTH SAUCER FINISH GRADE -PLANTING MIX- SEE PLANTING PLACE ROOT BALL ON

TYPICAL TREE PLANTING AND STAKING

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

DECIDUOUS TREES UP TO 2-1/2" CALIPER

BEST MANAGEMENT PRACTICES

FOR WORKING IN NON-TIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILES OR STORED IN NON-TIDAL WETLANDS, NON-TIDAL WETLAND BUFFERS, WATERWAYS, OR 100 YEAR FLOODPLAIN. 2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NON-TIDAL WETLANDS, NON-TIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOOD PLAIN.

3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS. UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.

4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NON-TIDAL WETLANDS, NON-TIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN. 5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NON-TIDAL WETLANDS, NON-TIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL

6. RECTIFY ANY NON-TIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION. 7. ALL STABILIZATION IN THE NON-TIDAL WETLAND AND NON-TIDAL WETLAND BUFFER SHALL CONSIST OF

THE FOLLOWING SPECIES: ANNUAL RYE GRASS (%%ULolium multiflorum%%U) MILLET (%%USetaria italica%%U)

BARLEY (%%UHordeum%%U sp.) OATS (%%UUniola%%U sp.)

RYE (%%USecale cereale%%U)

THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

8, AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS. 9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM USE I WATERS: IN STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15 INCLUSIVE DURING ANY YEAR 10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.

11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER

PLANTING/SOIL SPECIFICATIONS

1. INSTALLATION OF B&B/CONTAINER STOCK MARCH 15- MAY 30 OR SEPTEMBER 15- NOVEMBER 15. FALL PLANTING OF B&B STOCK IS NOT RECOMMENDED

2. DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS PER FOREST BUFFER PROTECTION PLAN 3. BACKFILL IN THE PLANTING PITS SHALL CONSIST OF 3 PARTS EXISTING SOIL TO 1 PART PINE FINES OR

4. FERTILIZER SHALL CONSIST OF AGRIFORM 22-8-2 OR EQUIVALENT, APPLIED AS PER MANUFACTURERS SPECIFICATIONS, FOR WOODY PLANTS. HERBACEOUS PLANTS SHALL BE FERTILIZED WITH OSMOCOTE

5. PLANT MATERIAL SHALL BE TRANSPORTED TO THE SITE IN A TARPED OR COVERED TRUCK. PLANTS SHALL BE KEPT MOIST PRIOR TO PLANTING. 6. ALL NON-ORGANIC DEBRIS ASSOCIATED WITH THE PLANTING OPERATION SHALL BE REMOVED FROM

THE SITE BY THE CONTRACTOR SEQUENCE OF CONSTRUCTION - PLANTINGS

1. SEDIMENT CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH WETLAND MITIGATION GRADING

AND PLANTING PLAN FOR SITE 2. REMOVE DUMPED SOIL, MULCH, NON-NATIVE PLANT SPECIES FROM WITHIN THE FOREST BUFFER

ENHANCEMENT AREA. STABILIZE DISTURBED AREA WITH SEED MIX. 3. PLANTS SHALL BE INSTALLED AS PER THE PLANT SCHEDULE AND THE PLANTING/SOIL SPECIFICATIONS FOR THE PROJECT

4. UPON COMPLETION OF THE PLANTING, SIGNAGE SHALL BE INSTALLED AS SHOWN

5. PLANTINGS SHALL BE MAINTAINED AND GUARANTEED IN ACCORDANCE WITH THE MAINTENANCE AND GUARANTEE REQUIREMENTS OF THE PROJECT

MAINTENANCE OF PLANTINGS

1. MAINTENANCE OF PLANTINGS SHALL LAST FOR A PERIOD OF (3) YEARS

2. PLANTINGS MUST RECEIVE 2 GALLONS OF WATER, EITHER THROUGH PRECIPITATION OR WATERING. WEEKLY DURING THE 1ST GROWING SEASON AS NEEDED. DURING SECOND GROWING SEASON, ONCE

3. INVASIVE EXOTICS AND NOXIOUS WEEDS WILL BE REMOVED, AS REQUIRED, FROM PLANTING AREAS MECHANICALLY AND/OR WITH LIMITED HERBICIDE APPLICATION (SEE GROUND COVER NOTE WHERE APPROPRIATE). OLD FIELD SUCCESSIONAL SPECIES WILL BE RETAINED

4. PLANTS WILL BE EXAMINED A MINIMUM TWO TIMES DURING THE GROWING SEASON FOR SERIOUS PLANT PESTS AND DISEASES. SERIOUS PROBLEMS WILL BE TREATED WITH THE APPROPRIATE AGENT

5. DEAD BRANCHES WILL BE PRUNED FROM PLANTINGS

GUARANTEE REQUIREMENTS

SOIL CONSERVATION DISTRICT.

1. A 85 PERCENT SURVIVAL RATE OF FORESTATION PLANTINGS WILL BE REQUIRED AT THE END OF 3 GROWING SEASONS. ALL PLANT MATERIAL BELOW THE 75 PERCENT THRESHOLD WILL BE REPLACED AT THE BEGINNING OF THE NEXT GROWING SEASON, WILD TREES ARISING FROM NATURAL REGENERATION MAY BE COUNTED UP TO 50 PERCENT TOWARD THE TOTAL SURVIVAL NUMBER IF THEY ARE HEALTHY, NATIVE SPECIES AT LEAST 12 INCHES TALL

ENGINEERS CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD

REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY

PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOILS

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

<u>PURPOSE</u>

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH, SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: A. THE TEXTURE OF THE EXPOSED

SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH

TO SUPPORT PLANTS OR FURNISH. CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS. C. THE ORIGINAL SOIL TO BE VEGETATED

CONTAINS MATERIAL TOXIC TO PLANT D. THE SOIL IS SO ACIDIC THAT TREATMENT

WITH LIMESTONE IS NOT FEASIBLE.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION, AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE

STABILIZATION SHOWN ON THE PLANS. CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT 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-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

i. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR

A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES. SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAT 1 AND 1/2" IN

ii. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS. QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

iii. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POLINDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

DEVELOPER'S CERTIFICATE

ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT

ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT

WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE

ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE

ROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE E INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

PERMANENT SEEDING NOTES II. FOR SITES HAVING DISTURBED AREAS UNDER 5

CONSTRUCTION

START***

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED

DETAIL 33 - SUPER SILT FENCE

MTH 1 LAYER C

CONSTRUCTION SPECIFICATIONS

1. FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND

STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED,

2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND

6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT

7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

0.3 GAL/FT /MIN. (MAX.) TEST: MSMT 322

STANDARD SYMBOL

SHALL NOT EXCEED 10 CENTER TO CENTER

CHAIN LINK FENCING FILTER CLOTH -

EMBED FILTER CLOTH 8"

SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS.

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.

TENSILE STRENGTH

ENSILE MODULUS

FILTERING EFFICIENCY

* IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42"

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/100 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMATIC LIMESTONE (92 LBS/1000 SQ.FT.) AND APPLY 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31 SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS, DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SO FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14. SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED

PLANTING/SOIL SPECIFICATIONS

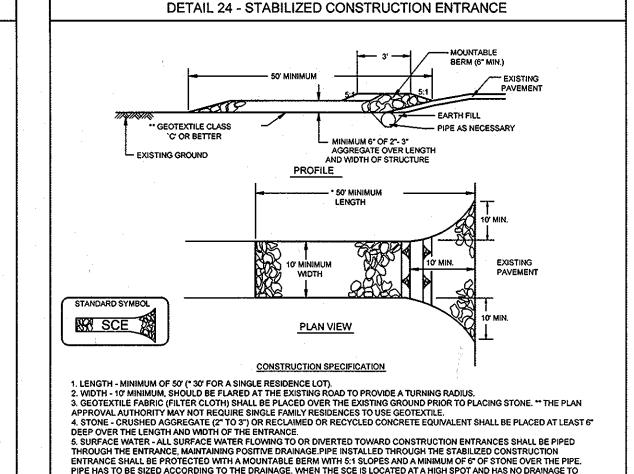
INSTALLATION OF BAREROOT PLANT STOCK SHALL TAKE PLACE BETWEEN MARCH 15 - APRIL B&B/CONTAINER STOCK MARCH 15 -MAY 30 OR SEPTEMBER 15 - NOVEMBER 15. TOPSOIL SHOULD BE SALVAGED AND REPLACED WHENEVER POSSIBLE TO A DEPTH OF 6 INCHES. SITE SHOULD BE GRADED TO BELOW 6 INCHES OF FINAL GRADE, THEN 6 INCHES TOPSOIL. RECLAIMED OR IMPORTED, SHALL BE SPREAD OVER THE SITE. SOIL AND SUBSTRATE AMENDMENTS NEED TO MEET HYDRIC SOIL CHARACTERISTICS AND MAINTAIN THE SPECIFIED PLANT SPECIES. * A MINIMUM OF 60 CUBIC YARDS OF ORGANIC MATTER PER ACRE IS REQUIRED. THE ADDITION OF SUPPLEMENTAL LARGE WOODY DEBRIS IS ALSO RECOMMENDED. THE SURFACE OF THE SOIL MUST NOT BE COMPACTED TO THE EXTENT THAT IT LIMITS PLANT ESTABLISHMENT AND MICROBIAL ACTIVITY. UPON COMPLETION OF GRADING, THE SOIL MUST BE DISKED OR CHISEL PLOWED TO A DEPTH OF AT LEAST 8 INCHES. DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS PER GENERAL CONSTRUCTION PLAN

FOR PROJECT. BAREROOT PLANTS SHALL BE INSTALLED SO THAT THE TOP OF ROOT MASS IS LEVEL WITH THE TOP OF EXISTING GRADE. FERTILIZER SHALL CONSIST OF AGRIFORM 22-8-2, OR EQUIVALENT, APPLIED AS PER

MANUFACTURER'S SPECIFICATIONS, FOR WOODY PLANTS. HERBACEOUS PLANTS SHALL BE FERTILIZED WITH OSMOCOTE 18-6-12. PLANT MATERIAL SHALL BE TRANSPORTED TO THE SITE IN A TARPED OR COVERED TRUCK. PLANTS SHALL BE KEPT MOIST PRIOR TO PLANTING. ALL NON-ORGANIC DEBRIS ASSOCIATED WITH THE PLANTING OPERATION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

1. A SURETY BOND IN THE AMOUNT OF \$33,859.00 SHALL BE FILED WITH MDE WITHIN 60 DAYS OF THE APPROVAL OF THE PHASE II MITIGATION PLAN. 2. THE ESTIMATED INITIATION OF CONSTRICTION FOR THE MITIGATION IS SPRING 2010. THE MITIGATION WILL BE IMPLEMENTED POST INSTALLATION FOR THE MAJORITY OF THE APPROVED IMPACTS, SOME APPROVED IMPACTS HAVE YET TO BE COMPLETED. APPROXIMATELY 29,000 SQ.FT. OF IMPACTS WILL HAVE BEEN COMPLETED PRIOR TO INSTALLATION OF THE MITIGATION 3. THE CONSTRUCTION OF THE WETLAND MITIGATION AREA SHALL BE COMPLETED WITHIN ONE

PLANNING BOARD



THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE.PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6 6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

MARYLAND DEPARTMENT OF ENVIRONMENT

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855) 2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL; AND REVISIONS FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES. DIKES. PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1. (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND

THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY DESIGN MANUAL STORM DRAINAGE 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE <u>1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION</u> SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 7. SITE ANALYSIS AREA DISTURBED AREA TO BE ROOFED OR PAVED

AREA TO BE VEGETATIVELY STABILIZED: **TOTAL CUT** TOTAL FILL: OFFSITE WASTE/BORROW AREA LOCATION: ON-SITE WITH AN ACTIVE GRADING PERMIT

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL

THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. * EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

OBTAIN GRADING PERMIT.

2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS AT (410) 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK. INSTALL SUPER SILT FENCE. (2 DAY)

. FOR SHRUB/FOREST WETLAND AREA #1 ROUGH GRADE AREA STARTING WITH EMERGENT BASIN #2 GRADING TOWARD EMERGENT BASIN #1

5. FOR SHRUB/FOREST WETLAND AREA #2, REMOVE EXISTING RETAINING WALL AND ROUGH GRADE AREA STARTING WITH EMERGENT AREA #3. (1 WEEK) FINISH GRADE SHRUB/FOREST WETLAND AREAS #1 & #2 AND STABILIZE. (1 WEEK)

REFER TO PLANTING SCHEDULE AND PLANT/SOIL SPECIFICATIONS FOR PLANTING SEQUENCE UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREA. (1 WEEK)

NOTE: -FOLLOWING INITIAL SOIL DISTURBANCE OR ANY REDISTURBANCES, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES AND ALL

SLOPES GREATER THAN 3:1. B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS. -DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND

PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS

OWNER/DEVELOPER MANGIONE ENTERPRISES OF TURF VALLEY, LP

1205 YORK ROAD, PENTHOUSE **LUTHERVILLE, MARYLAND 21093** 410.825.8400

WETLAND MITIGATION SCHEDULES, NOTES AND DETAILS TURF VALLEY RESORT WETLAND MITIGATION SITE

PARCEL 48, TURF VALLEY PROFESSIONAL BUILDINGS, PARCEL K AND OPEN SPACE LOT

TAX MAP 16 GRID 16 3RD ELECTION DISTRICT

> Ellicott City, Maryland 21043 Phone: 443.325.7682 Fax: 443.325.7685

Engineers · Surveyors · Planners

PROJECT#: _____06-025 SHEET#: <u>3</u> of <u>3</u> ROFESSIONAL CERTIFICATION: LIHERBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THAT LAM A DULL ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2013

P:\Land Projects\TV 06-025\dwg\Wetlands\06-025_C3_Details.dwg, 4/5/2012 8:44:58 AM, Johnh, 1:1

TYPICAL TREE SHELTER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

SDP-10-056

P/O PARCEL 8, 48 & 50

APRIL 4, 2012

HOWARD COUNTY, MARYLAND

DRAWN BY:

CHECKED BY: