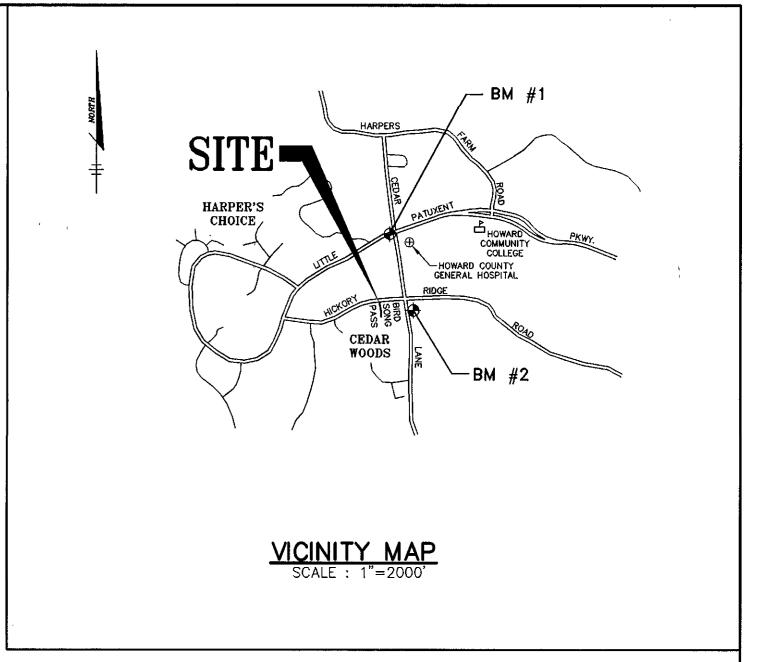


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GENERAL NOTES

	GENERAL NOTES	
1.	Existing utilities are shown for the convenience of the Contractor and the completeness or accuracy of the same is not guaranteed. The Contractor shall determine the location and elevation of the existing utilities before trench excavation begins. He shall protect service connections and maintain their uninterruped service. Any damage caused by the Contractor shall be repaired immediately. The cost of such repairs shall be borne by the Contractor,	٦
2.	Roadside drainage ditches, culverts and underdrains which are damaged or destroyed by construction will be restored to a condition at least equal to prior to the start of construction at the Contractor's expense.	that
3.	All areas disturbed within Easements and Right-Of-Ways shall be restored t condition of at least equal to that which existed prior to the start of const The cost of such shall be borne by the Contractor.	
4.	All horizontal controls are based on NAD 83.	
5.	Vertical controls are based on U.S.G.S. datum.	
6.	All pipe elevations shown \bigcirc are invert elevations.	
7.	Clear all utilities by a minimum of 12". Clear all poles by 3'-0" minimum or tunnel as required. Coordinate with the utility companies to schedule any necessary bracing of the poles.	1
8.	Storm drains shall have a minimum cover of 18" except where greater dept are indicated.	hs
9.	For details not shown on the drawings, and for materials required, refer to Specifications.	
10.	Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans: AT&T 410-393-	3553
	AT&T Baltimore Gas & Electric Co. Contractor Services Baltimore Gas & Electric Co. Underground Damage Control Miss Utility Bureau of Utilities, Howard County Department of Public Works 410-393- 410-850- 410-850- 410-850- 410-850- 410-850- 410-850- 410-850- 410-313-	4620 9068 7777
11.	Trees and shrubs are to be protected from damage to maximum extent. T and shrubs located on private property within the construction strip, and ou the immediate line of excavation are not to be removed or damaged by the Contractor.	rees Itside Ə
12.	Contractor shall remove trees, stumps and roots along the immediate line of excavation. Payment for such removal shall be included in the unit price bio for construction of the stormdrain.	of 1
13,	Contractor is solely responsible for construction means, methods, techniques sequences, procedures, and safety precautions and programs.	3,
14.	Sediment control to be provided as shown and shall be approved by the Sediment Control Inspector before starting any site grading. Trench length is limited to three (3)pipe lengths at any one time, to be stabilized immediately.	I
15.	Trenching and backfilling shall be in accordance with Howard County by the Maryland Department of the Environment and the Soil Conservation S standard detail G2.01.	Service.
16.	All work shall comply with all applicable provisions of the "1994 Maryland Standards and Specifications for Soil Erosion and Sédiment Control" issued	
17.	Boundary and topographic information shown here is based on County deeds and field surveys by Reimer Muegge & Associates, Inc. dated January 1999.	
18.	It shall be distinctly understood that failure to mention specifically any work would be required to complete the project shall not relieve the Contractor of responsibility to perform such work.	
19.	The Contractor shall note that in the case of a discrepancy between the sc and the figure dimensions shown on the plans, the figure dimensions shall g	aled govern.
20.	At the end of each working day, all sediment control measures will be inspe- and left in operational condition.	
21.	Contractor shall immediately remove all spoil material from site to an appro location.	ved
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400	BIRD SONG PASS STORM DRAIN IMPROVEMENT	SCALĘ AS SHOWN

5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT NO. D-1118 UU PHASE II



BLOCK NO. 5,11

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SHOWN

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

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. per 1000 sq.ft.).

Seeding : For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sg.ft.). For the period November 16 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. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 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.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

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 :

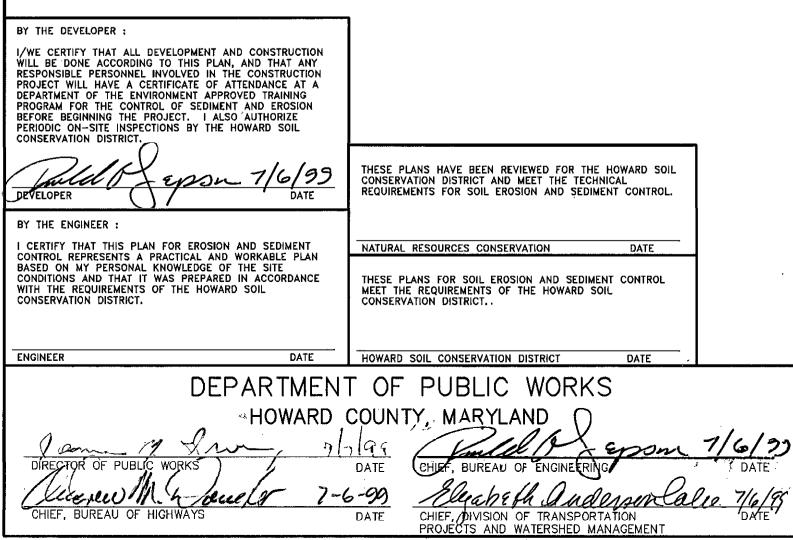
- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sa.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding : For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options :

- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

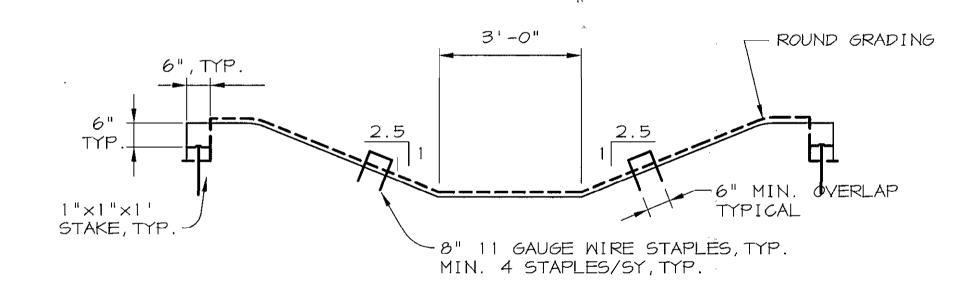
Maintenance : Inspect all seeded areas and make needed repairs, replacements and reseedings.



	STRUCTURE SCHEDULE										
ŵ	STRUCTURE NUMBER	LOCATION	TYPE	TOP GRATE ELEV.	INV. IN	INV. OUT	REMARKS				
	I—1	N 561858.82 E 1344093.56	D	±441.0		438.11	HO. CO. STD. SD-4.11				
	I-2	N 561748.92 E 1344096.60	D	±440.7	437.00	436.75	HO. CO. STD. SD-4.11				
- A-35.	MH-1	N 561751.46 E 1344127.25	STD. 4'-0"	±442.3	440.38	440.00	HO. CO. STD. G-5.12				
	1-3	N 561740.44 E 1343995.63	D	±435.0	431.84	431.74	HO. CO. STD. SD-4.11				
	ES-1	N 561738.31 E 1343968.52	END SECTION			431.62	HO. CO. STD. SD-5.51				

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	STORM DRAIN FLOW TABULATION													
LOCATION		ACRES		СхА		TIME		Q = CIA	PIPE $n = 0.013$				TIME	
FROM	ТО	SUB.	TOTAL	С	СхА	SUM	(MIN.)	(IN./HR.)	10 YR. C.F.S.	SIZE	SLOPE	VEL.(fps)	LGTH. (ft)	(MIN.)
I—1	l-2	1.52	1.52	0.32	0.49	0.49	10.8	6.36	3.12	15"	1.00	2.5	111	0.7
EX. INLET	EX. MH	0.19	0.19	0.85	0.16	0.16	5.0	8.50	1.36	15"	1.00	1.1	155	2.3
EX. MH	MH-1		0.19			0.16	7.3		1.36	15"	1.00	1.1	35	0.5
MH-1	I-2		0.19			0.16	7.8		1.36	15"	9.09	1.1	33	0.5
1-2	I-3	0.77	2.48	0.32	0.25	0.90	11.5	6.18	5.56	18"	4.86	3.1	101	0.5
I-3	ES-1	0.60	3.08	0.32	0.19	1.09	12.0	6.05	6.60	18"	0.50	3.7	23	0.1



SWALE SECTION - EROSION CONTROL MATTING

- ALL MATTING SHALL BE FREE OF TEARS OR BREAKS. 2. 3.
- AND SEED 4.
- 6. STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
- 8 9 STAGGERED PATTERN.
- BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. INSTALLATION.

RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX : 410-997-9282 99015\POINTS.DWG

N.T.S.

EROSION CONTROL MATTING INSTALLATION NOTES:

PRIOR TO INSTALLATION OVER DESIGNATED AREA, FINAL GRADING MUST BE COMPLETE PREPARE SOIL BEFORE INSTALLING BLANKETS. INCLUDE APPLICATION OF L'IME, FERTILIZER

BEGIN AT THE UPSTREAM END OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6"×6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF

FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 2" OVER THE CENTER BLANKET AND STAPLED.

PLACE A STAPLE CHECK SLOT AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL, PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A

10. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP BY 6" WIDE TRENCH. 11. NO VEHICULAR TRAFFIC OF ANY KIND IS PERMITTED ON MATTING DURING OR AFTER

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STATE OF MARY	DES:	T.D.				·····				
NG + O O O O O	DRN:	G.T.H.		<i></i>			BIRD SONG PASS			
	CHK:	G.C.L.					SCHEDULES & NOTES			
FRANK DONALDSON #8146	MAY	1999	BY	NO	REVISION	DATE	600' SCALE MAP NO. <u>35</u> BLOCK NO. <u>5</u> ,			
6/11/20				ñ 3 			· · · · · · · · · · · · · · · · · · ·			

BIRD SONG PASS STORM DRAIN IMPROVEMENT

5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. D-1118 UU PHASE II SCALE AS SHOWN