INDEX OF SHEETS

- 1. TITLE SHE T
- 2. PLAN AND D FAILS EROSION AND SEDIMENT CONTROL
- 3 PROFILES
- 4. PIPE DIVERSION
- 5. WETLANDS PLAN
- 6. ERDSION AND SEDIMENT CONTROL DETAILS

DESIGN CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF HOWARD CONSERVATION DISTRICT.

6/17/95	6//		
DATE	1	DESIGNER'S SIGNATURE	- company
MARYLAND REGISTRATION NO.	10989	Hernetta M Johns	
(P.E., R.L.S., OR R.L.A.)	an a	PRINTED NAME	

OWNER'S DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

8/30/95

mid Sepon DWNER DEVELOPER SIGNATURE

<u>Bonald G. Lepson, Chief, Bureau of Engineering</u> PRINTED NAME AND VITLE

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ITEM	ESTIMATE	AS-BUILT	MATL. / SUPPLIER						
15"RCP CL. IV	680 L.F.								
TYPE D INLET	6 EA.								
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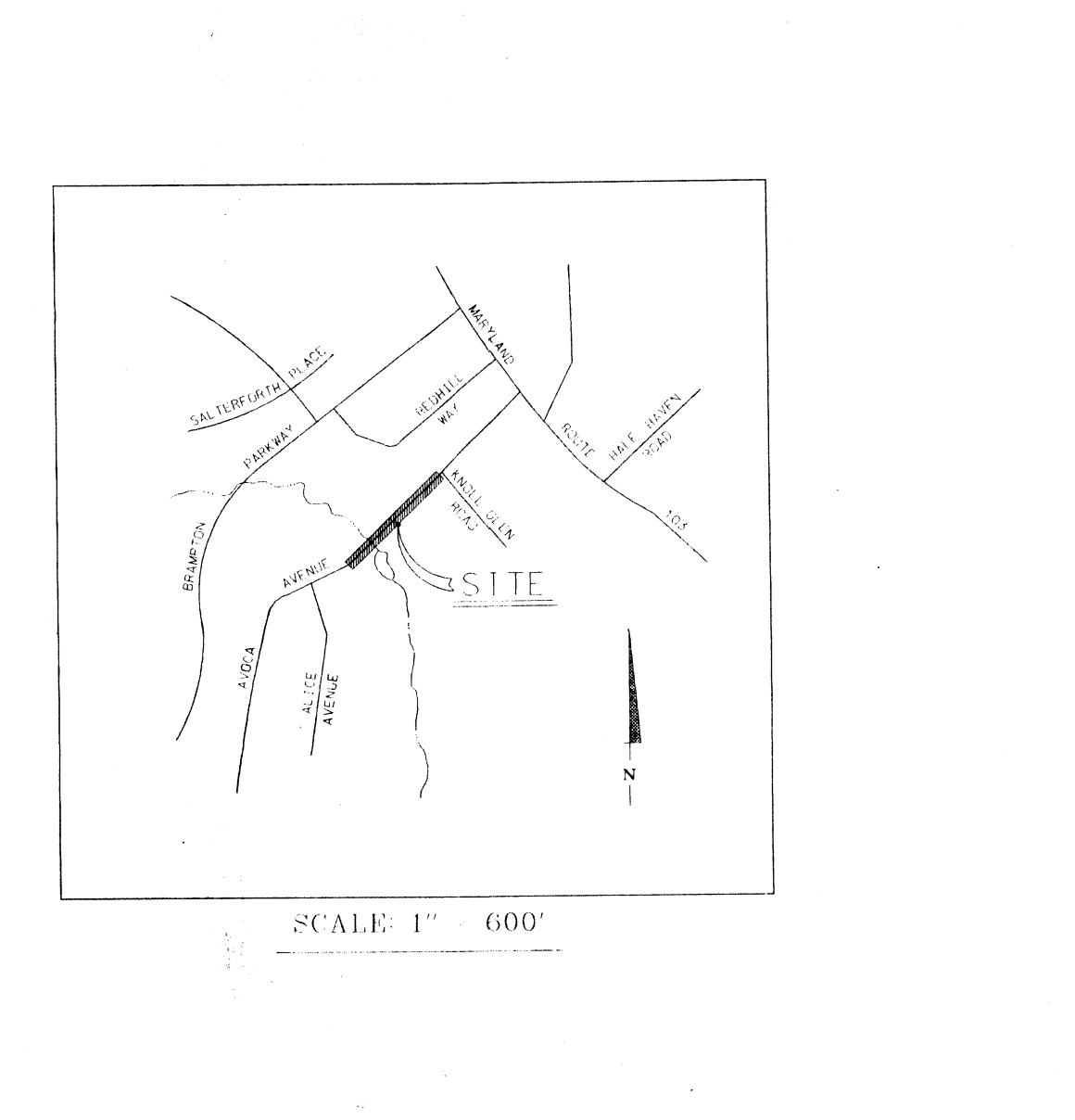
WRA LETTER OF AUTORIZATION NO. 94-NT- 0214

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION AND MEETS TECHNICAL REQUIREMENTS. raturia

RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND EBA ENGINEERING, INC. EDan 2/13/95 5800 METRO DRIVE Vann A. tem DIRECTOR OF PUBLIC WORKS BUREAU OF BINGINEERING BALTIMORE . MARYLAND 21215 (410) 358-7171 CHIER TRANSPORTATION PROJECTS CHIEF. BUREAU OF HIGHWAYS US DATE AND WATERSHED MANAGEMENT



CAPITAL PROJECT NO. D - 1078 S.E. HOWARD COUNTY, MAR' DEPARTMENT OF PUBLIC WORKS

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	CALSISTERES	Alter	DATE 06/1	: 06/1995	BY	NO.		REVISION	4	 DATE	600' SCALE MAP NO
										4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS. IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN HEREON:
 - MISS UTILITY 1-800-257-7777 BALTIMORE GAS & ELECTRIC CO., UNDERGROUND ELECTRICAL DISTRIBUTION ENGINEERING DAMAGE CONTROL 234-6313 BALTIMORE GAS & ELECTRIC CO., UNDERGROUND GAS DISTRIBUTION ENGINEERING 234-5533 CHESAPEAKE AND POTOMAC TELEPHONE CO. 725-9976 COLONIAL PIPELINE COMPANY 781-4641 HOWARD COUNTY BUREAU OF UTILITIES 313-4900 HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION 313-1870 HOWARD COUNTY TRAFFIC DIVISION 313-2430 HOWARD COUNTY SURVEYING AND DRAFTING DIVISION 313-2417
- 3. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 4. SURVEY OF THE SITE WAS PERFORMED BY EBA ENGINEERING IN JUNE, 1991.

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GENERAL NOTES:

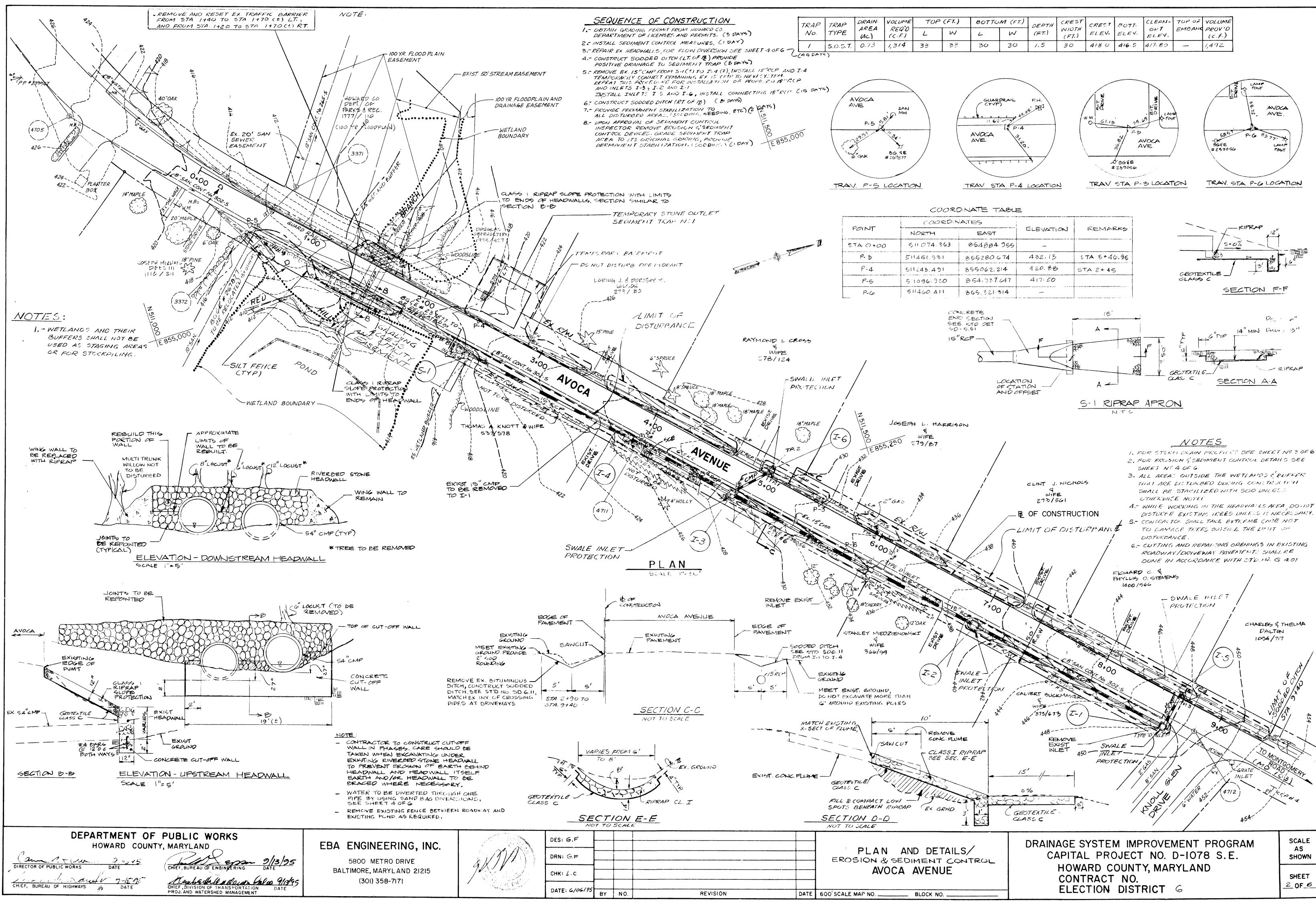
- COORDENATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY CONTROL STATION 5. NDS. 2139003, 2139004 AND 2139005.
- 6. WETLANDS WERE DELINEATED BY HUMAN & RODHE, INC. ON JUNE 28, 1993.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 FOR UNDERGROUND UTILITY LOCATIONS AT LEAST FIVE (5) DAYS PRIOR TO COMMENCING WORK SHOWN ON THE PLANS.
- 8. ALL TOP ELEVATIONS FOR THE PROPOSED INLETS AND MANHOLES ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE ENGINEER. WHERE THE PROPOSED STORM DRAINS CROSS VEGETATED AREAS, POSITIVE DRAINAGE SHALL BE MAINTAINED AND THE TOP ELEVATIONS ADJUSTED AS DIRECTED BY THE ENGINEER.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL EXISTING DRIVEWAYS DAMAGED DURING CONSTRUCTION.
- 10. TREES ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES LOCATED OUTSIDE THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 11. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ON THESE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION, NEITHER THE ENGINEER NOR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION SHOWN.
- 12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES. ANY DAMAGE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. CLEAR ALL UTILITIES BY A MINIMUM OF 6 INCHES.
- 13. TEST PITS SHALL BE DUG AT ALL UTILITY CROSSINGS TO DETERMINE EXISTING HORIZONTAL AND VERTICAL ALIGNMENT OF UTILITIES. TEST PITS SHALL BE DUG A SUFFICIENT AMOUNT OF TIME IN ADVANCE OF THE CONSTRUCTION OR TRENCHING OPERATION TO ALLOW FOR NECESSARY ADJUSTMENTS.
- 14. WHERE JEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 🖼 THE RESULTS TEST PITS ARE INCLUDED ON THE STORM DRAIN PROFILES.
- 15. ALL UTILITY POLES MUST BE CLEARED BY FIVE (5) FEET. IF THE STORM DRAIN PIPING OR STRUCTURE WORK IS WITHIN FIVE (5) FEET OF A UTILITY POLE. THE POLE IS TO BE BRACED OR RELOCATED. RELOCATION OR BRACING OF UTILITY POLES WILL BE DONE BY OTHERS.
- 16. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 17. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISHING AND LAYING STORM DRAIN PIPE.
- 18. EXISTING WATER HOUSE SERVICES THAT ARE IN CONFLICT WITH THE PROPOSED STORM DRAINAGE FACILITIES SHALL BE ADJUSTED BY THE CONTRACTOR.
- 19. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, THE CONTRACTOR SHALL ABIDE BY THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION" AND THE SPECIAL PROVISIONS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THESE TWO SOURCES. THE LATTER SHALL GOVERN.
- 20. EXISTING FENCES, MAILBOXES, SIGNS AND SHRUBS DISTURBED BY THE WORK SHALL BE RECONSTRUCTED OR REPLACED IN KIND.
- 21. ALL SLOPES AND/OR DISTURBED AREAS SHALL RECEIVE TWO (2) INCH DEPTH OF TOPSOIL AND SODDING EXCEPT WHERE OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

22. LOCATION POINTS FOR INLETS, MANHOLES AND STRUCTURES: VERTICAL LOCATION HORIZONTAL LOCATION ITEM 🔡 🆑

-	and the second sec			1
	CURB TYPE INLETS	CENTER FACE OF CURB	TOP OF CURB	
	GRATE TYPE INLETS	CENTER OF GRATE	TOP OF GRATE	
	MANHOLES	CENTER OF COVER	TOP OF COVER	
	ENDWALLS	CENTER OF WALL	TOP OF WALL	
			A MAININA DE TWO (2) WE	EKS IN ADVANCE
23.	THE CONTRACTOR SHALL	LOCATE EXISTING UTILITIES	TICC COST SUALL DE IN	CLUDED IN THE
		ATIONS IN VICINITY OF UTILI	TIES. CUST SHALL DE IN	
	UNIT PRICES BID FOR	STORM DRAIN ITEMS.		
24.	ALL INVERTS SHALL BE			
25.	LENGTHS OF DISTURBAN	CE SHALL BE LIMITED TO A MA	XIMUM OF 100 FT. AT ANY	ONE TIME.
	AT THE END OF EACH W	ORKING DAY, PROVIDE STABILI	ZATION ACCORDING WITH P	-ANS.

THERE IS A POSSIBILITY THAT HIGH GROUNDWATER MAY BE ENCOUNTERED WHEN EXCAVATING FOR INSTALLATION OF THE CLOSED STORM DRAINPSYSTEM, CONTRACTOR TO TAKE PROVISION AVOCA TO WORK UNDER THOSE CONDITIONS

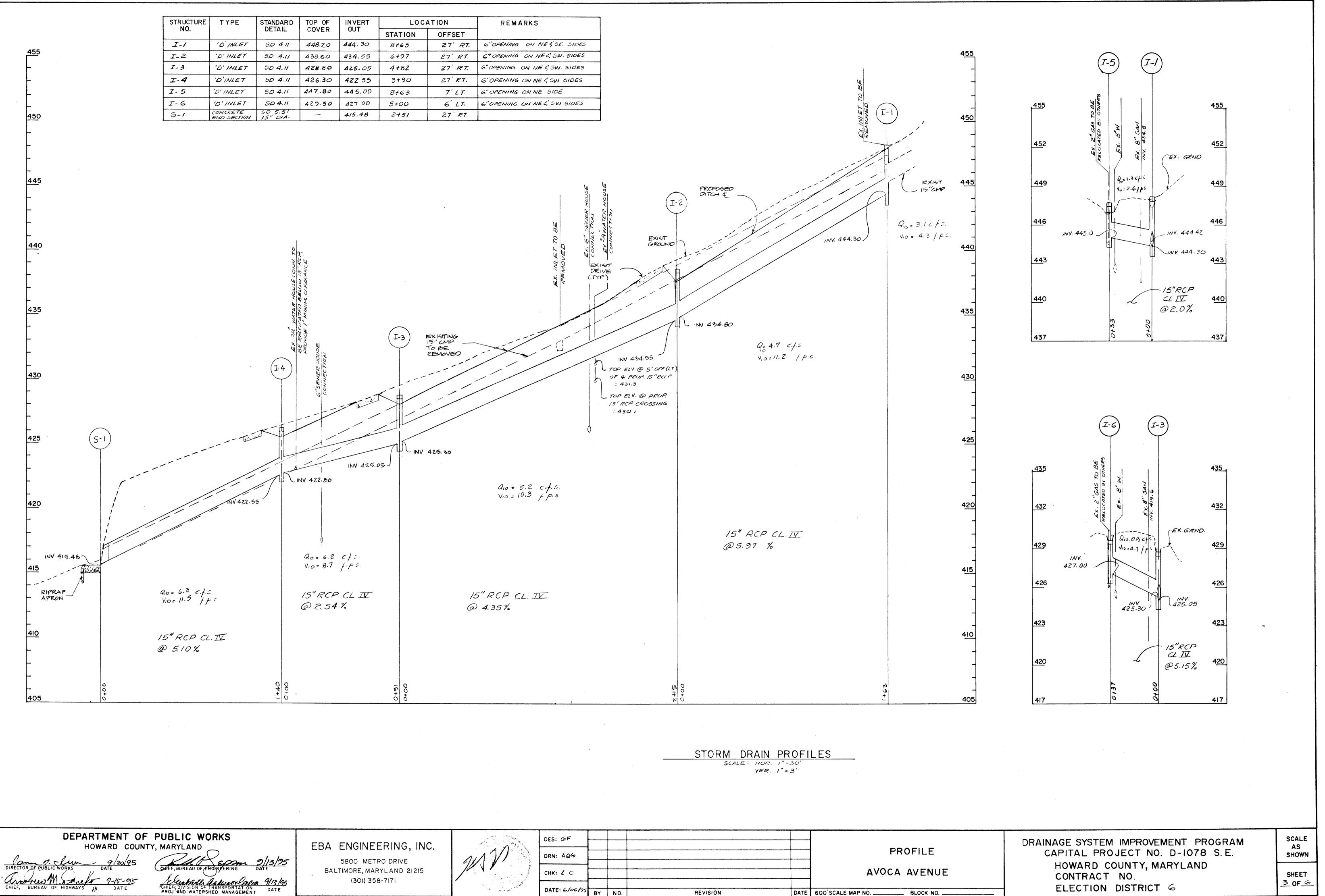
	DRAINAGE SYSTEM IMPROVEMENT PROGRAM	NO
CULLET	CAPITAL PROJECT No. D-1078 S.E.	NO SCALE
SHEET	HOWARD COUNTY, MARYLAND	SHEET
	CONTRACT NO. ELECTION DISTRICT NO. 6	1_OF_6_
BLOCK NO.	CZEOBZOI OFFICE COP	



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TOP	(F1.)	BOTTO	M (FT.)	DEPTH	CREST	CREST	BOTT	CLEAN-	TOP OF	VOLUME
L	W	4	W	(=7.)	CREST WIDTH (FT.) ELEV	ELEV.	ELEV.	OUT ELEV.	EMBANK	(c,f)
33	38	30	30	1.5	30	4180	416.5	4/7.80		1,492

SCALE AS SHOWN SHEET



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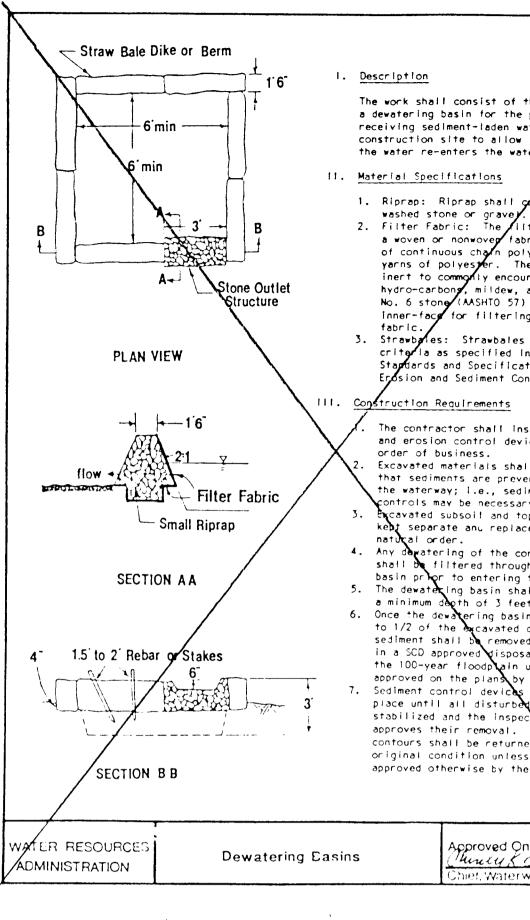
1	ATION	REMARKS
	OFFSET	
	27' RT.	6" OPENING ON NESSE. SIDES
	27' RT.	G" OPENING ON NEC. SW. SIDES
	27' RT.	6" OPENING ON NE & SW. SIDES
	27' RT.	G"OPENING ON NE & SW SIDES
	7' L T.	6" OPENING ON NE SIDE
	6' LT.	G'OPENING ON NEC, SWI SIDES
	27' RT.	

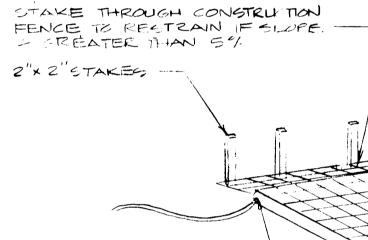
	Mar Carlos Carlos	DATE: 6/06/45	BY	NO.	REVISION	DATE	600'SCALE MAP NO 8
		DATE: Classics					
		CHK: C.C.					Ανοςα α
-	0.17/18	DRN: AQG					PRO
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	and the second	DES: GF					

BLOCK NO. -

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CUT OPEN CORNER OF BAG AND CLAMP ON DEWATERING

HOSE.

STAKE AT 2566 TO HOLD ON SLOPES

NOTES

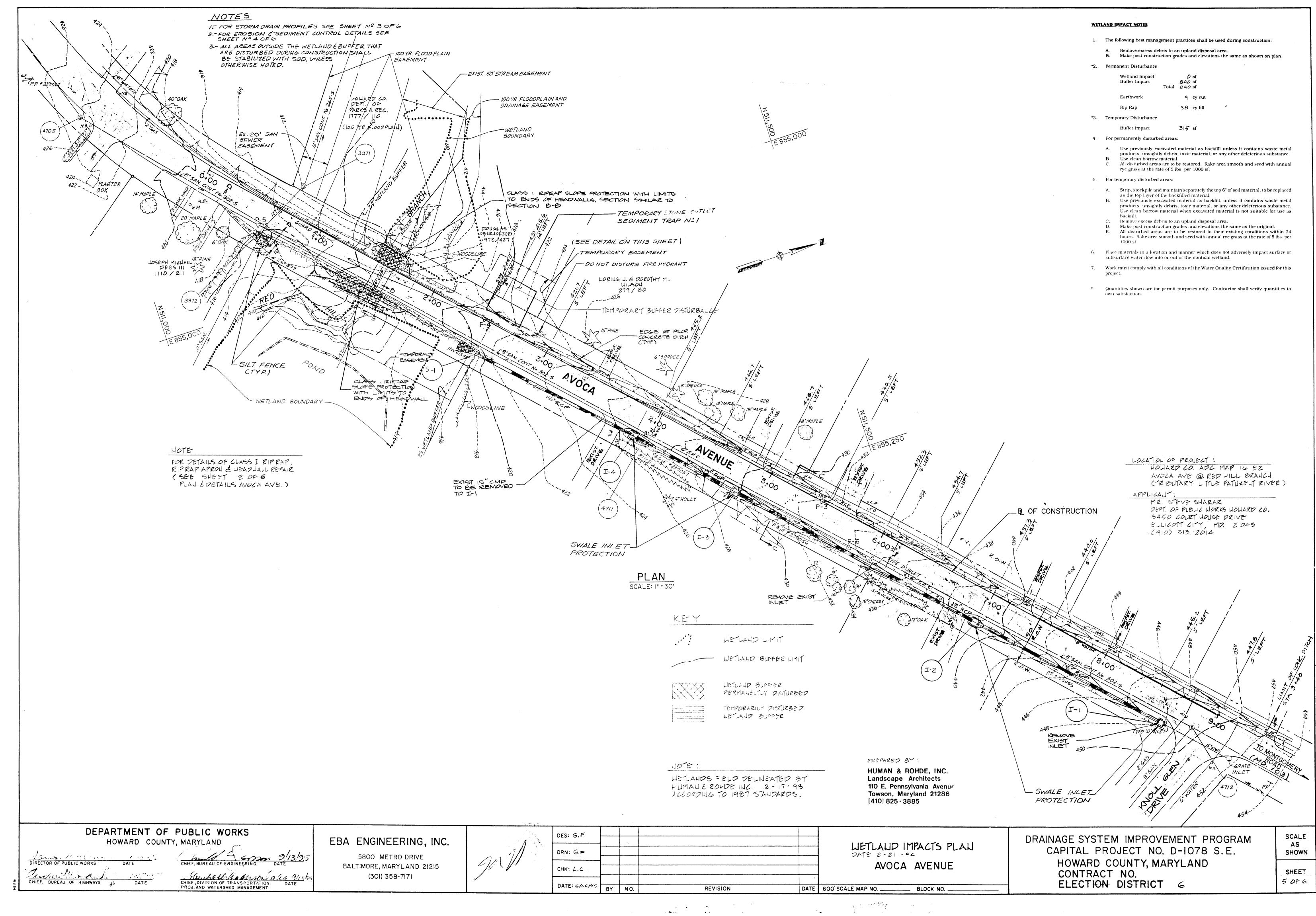
- I. FILTER BAG SHALL BE VEGETATED SITE SUCH ANY WORK AREAS.
- 2. THE FILTER BAG MUGT PUMP DIG HARGE LINE. 3, FILTER BAG SHALL NOT
- THAN 300 GPM
- 4 DEVICE SHALL BE REMO WITH SEDIMENT. SEDIME AREA.

MINIMUM PUMP CAPACIT

FT

AVOCA AVE REVISION DATE 600' SCALE MAP NO.____ BLOCK NO. ___ 6106195

	_				
the construct of		NO I	Sandbag/Stone	• Existing Grade	
purpose of ater pumped from filtration befo terway.	n a	Stream Width	Flow Diversion (2 ft mir H/2×1 ft	Impervious Sheeting	-
consist of 4-8 i			Sandbag	/Stone Diversion	
Iter cloth shall pric consisting Tymeric filament the fabric shall untered chemical and rot resista) may be used on ng Instead of	only sor be s, ont.		-Min Width is 25% of Stream Width	SECTION A·A	
shall meet the n the Maryland tions for Soll ntrol.		I. Descrip		csions for the nurnose of	
stall all sedim ices as the fir:		erosion channei 11. <u>Materia</u> 1. Sar	control when construction activities ta such as bank stabilization or bridge at <u>al Specifications</u> ubbags: Sandbags shall consist of materi ra-violet radiation, tearing and punctur	the place within the stream butment construction. Nais which are resistant to	
ll be stored suc ented from enter iment perimeter ry. opsoil shall be		etc 2. Stc Inc	bugh to prevent leakage of fill material). one: Stone shall be washed and have a mi ches. beting: Sheeting shall consist of polyes	inimum diameter of 6	
ced in their postruction area on a dewatering the waterway.	,	III. <u>Constru</u> 1. All fir	Ich is impervious and resistant to punctu action Requirements Ferosion and sediment control devices st est order of work. a diversion structuro shall be installed	nall be installed as the	
ine waterway. all be excavated et. In becomes fille depth, accumula ed and disposed	ed ofed	dov 3. The fro cro 4. All	vistream. a height of the diversion structure shal om stream bed to stream bank plus one fox oss-section view. I excavated materials shall be disposed (I be one half the distance ot, as indicated on the of In a SCD approved	
al area outside unless otherwis the WRA. are to remain areas are ching authority All ground	e In	app 5. All den 6. She the 7. Sec	sposal area outside the 100-year floodpli proved on the plans by the WRA. I dewatering of the construction area shi ratering bastn prior to re-entering the setting shall be overlapped such that the downstream portion with at least an 18- diment control devices are to remain in p eas are stailized in accordance with an	all be pumped to a <i>filter bag</i> stream. upstream portion covers -inch overlap. place until all disturbed	
ed to their s spectically e Administration	n.		osion control plan and the inspecting au noval.	thority approves their	
n 1 24 YG	MPD 1.1	WATER RESOURCES	Sandbag/Stone Diversion	Approved On 1/24/84 WF (unity - cum 2.5 Chief, Waterway Permits	
	15'				
		FOR RESTRAINT AID IN LIFTING BAG.	AND		
WATER	AND)) O TC	10% SLOPE		
SEAME		FILTER FA CPHILLIPS SUPAC BN EQUIVALEN	FIBERG POR		
		B OR LEVEL, WELL G WW AWAY FROM DEVI			
		AND SECURED TO T			
WED AND	D DIGROGED	RGE FLOWS GREATE OF AFTER BAG 15	FILLED		
	BAG SHALL	BE SPREAD IN AN U			
LTER	BAG				
ENUE		CAPITAL F	STEM IMPROVEME PROJECT No. D-	1078 S.E.	۱ SC
		CONT	RD COUNTY, MAR RACT No. TION DISTRICT N		SH <u>4</u> (
BLOCK NO.			NI LUNICIU FIUII	\vee . \vee	1



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	11/1	DRN: G.F					DATE 2-21-94
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		CHK: L.C	· · · · · · · · · · · · · · · · · · ·		······································		
6		DATE: 6/06/95	BY	N O.	REVISION	DATE	600' SCALE MAP NO B

1.	The	following best manage	ment p	oractic	es :	shall be used during construction:	
	А. В.	Remove excess debr Make post construc				disposal area. elevations the same as shown on p	olan.
*2.	Perm	nanent Disturbanc e					
		Wetland Impact Buffer Impact	Total	0 840 840			
		Earthwork		9	су	r cut	
		Rip Rap		38	су	fill '	
•3.	Tem	porary Disturbanc e				,	
		Buffer Impact		315	sſ		
4.	For	permanently disturbed	areas	:			
	Α.	•				as backfill unless it contains was aterial, or any other deleterious sub	
	В. С.	Use clean borrow m	aterial are to b	De re st	ore	d. Rake area smooth and seed with	
5	For	temporary disturbed a	reas				

GENERAL NOTES FOR SEDIMENT & EROSION CONTROL

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855).

- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR 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 CONTROL TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY 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: (FOR EROSION AND SEDIMENT CONTROL ONLY, NOT FOR BIDDING

<u>1.0 A</u>C. TOTAL AREA OF SITE <u>).42</u> AC. AREA DISTURBED

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- AREA TO BE ROOFED UN MAYED AREA TO BE VEGETATIVELY STABILIZED 0.36 AC 400 CU. YDS.

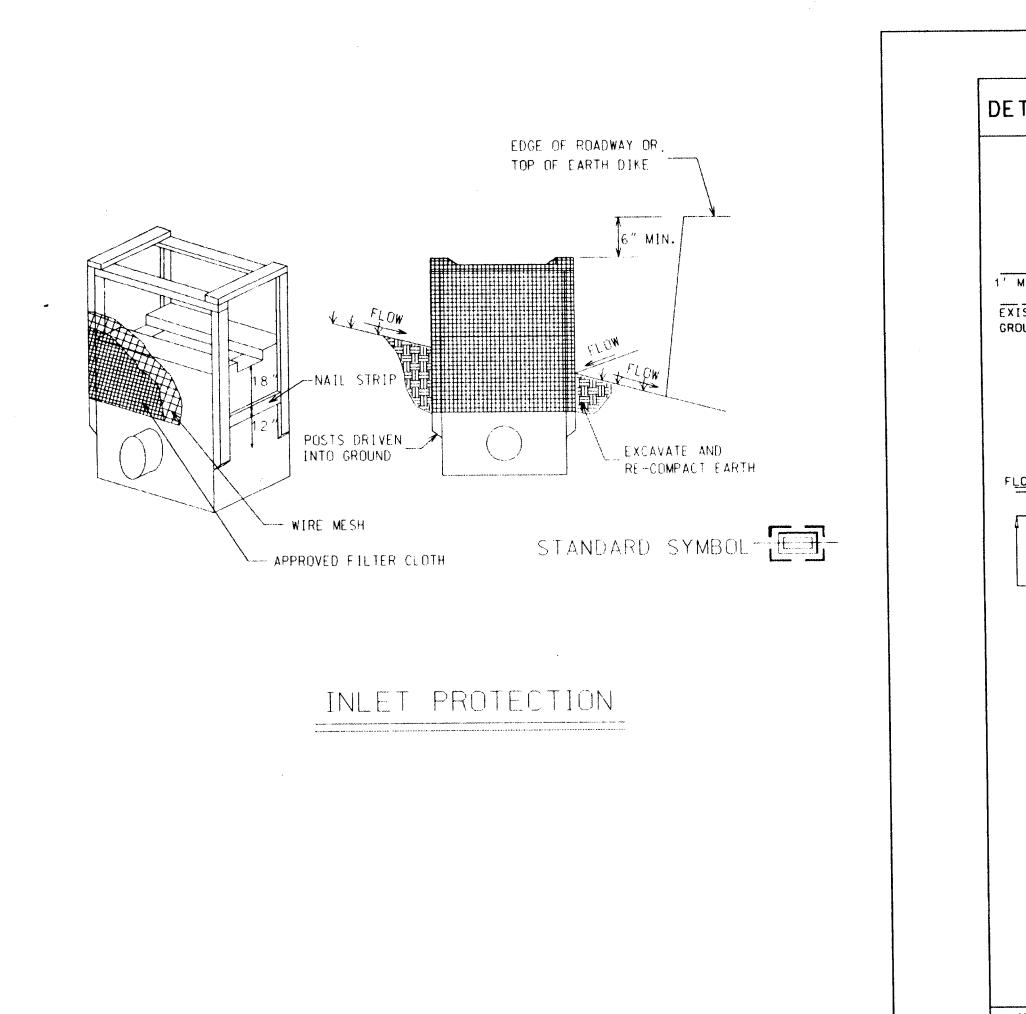
CU. YDS. TOTAL FILL TO BE DETERMINED BY THE CONTRACTOR OFFSITE WASTE/BORROW AREA LOCATION

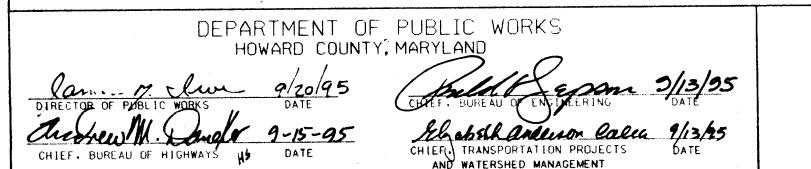
Location shall have an active Grading Permit 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

9. ADDITIONAL SEDIMENT CONTROL 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.

11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.





EBA ENGINEERING, INC 5800 METRO DRIVE BALTIMORE, MARYLAND 21215 (410) 358-7171

TEMPORARY SEEDING SPECIFICATIONS

1. ALL DISTURBED AREAS - SHALL BE SEEDED AND MULCHED

2. SEEDED BED PREPARATION - THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING OR RAKING (SHALL BE DONE ON CONTOUR) TO A DEPTH OF AT LEAST 3" BEFORE SEEDING OCCURS, APPLY TWO (2) TON PER ACRE OF LIME AND 1000 LBS, PER ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT. THOROUGHLY MIX INTO SOIL TO A MINIMUM OF 3", APPLY 2" OF TOPSOIL.

3. SEEDING METHOD OF APPLICATION - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLARRY INCLUDES SEED AND FERTILIZER).

4. SEEDING - FOR THE PERIOD 2/1 - 4/30 AND 8/15 - 11/30 UPE ITALIAN OR PERENNIAL RYEGRASS 40 LBS./ACRE OR .92 LBS./1000 10. FT. DURING THE PERIOD 5/1 - 8/14 USE MILLET 40 LBS./ACRE OR .92 LBS./1000 SO. FT.

5. MULCHING - USE CLEAN, UNWEATHERED, UNCHOPPED SMALL GRAVA STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE ANCHORED DOWN WITH STBACK ASPHALT AT THE RATE OF 5-8 GALLONS PER 1000 SO. FT.

6. DISCING AND HARROWING - SHALL BE DONE ON CONTOUR.

STANDARD STABILIZATION NOTE:

"FOLLOWING INITIAL SOIL DISTURBANCE OF REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND FOURTEEN DAYS (14) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

DATE:

06/08/95

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NO.

PERMANENT SEEDING SPECIFICATIONS

1. ALL DISTURBED AREAS - SHALL BE SEEDED AND MULCHED

2. SEEDED BED PREPARATION - THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING OR RAKING (SHALL BE DONE ON CONTOUR) TO A DEPTH OF AT LEAST 3" BEFORE SEEDING OCCURS, APPLY TWO (2) TON PER ACRE OF LIME AND 1000 LBS. PER ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT. THOROUGHLY MIX INTO SOIL TO A MINIMUM OF 3".

3. SEEDING METHOD OF APPLICATION - APPLY SEED UNIFORMLY WITH A CYCLONE SEED DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).

4. SEEDING - USE 50% KENTUCKY BLUEGRASS, 40% PENNLAWN CREEPING RED FESCUE AND 10% OF RED TOP AT THE RATE OF 90 LBS. PER ACRE. PERMANENT SEEDING TO BE DONE ONLY DURING THE PERIOD OF 2/1 TO 4/30 AND 8/15 TO 10/31.

5. MULCHING - USE CLEAN, UNWEATHERED, UNCHOPPED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE ANCHORED DOWN WITH CUTBACK ASPHALT AT THE RATE OF 5-8 GALLONS PER 1000 SO. FT.

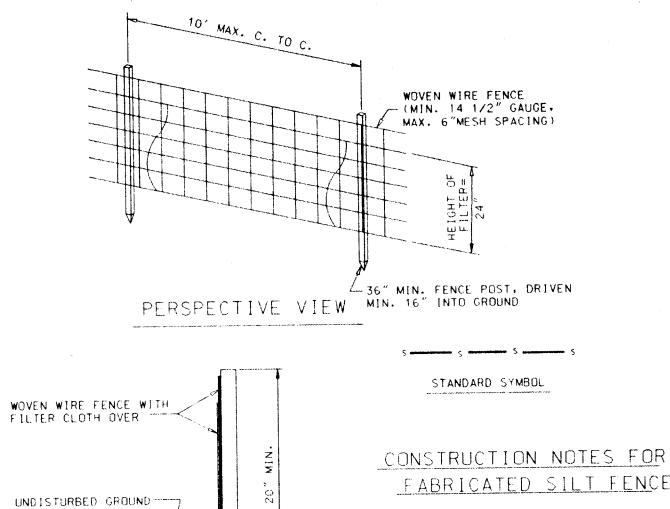
SODDING

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD SHALL BE LAID ON SOIL PREPARED IN ACCORDANCE WITH NOTE 2 PERMANENT SEEDING. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR WITH STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTING AND NOT OVERLAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED WITHIN EIGHT HOURS OF INSTALLATION. DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.

	
TAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II	DETAIL 24 - STABILIZED
FLOW COMPACTED EARTH	
EMBANK MENT	
1' MIN TOP OF EMBANKMENT	** GEDTEXTILE CLASS 'C'
WEIR LENGTH 11 4' MAX. STONE A	EXISTING GROUND STRUCTURE
	PROFILE
DUND SECTION B-B	* 50' MINI
UISCHARIGE TO	LENGT
Y UNDISTURBED/ Contraction A' MIN. WIDTH STABIL 12ED	
3/4 TO 11/2" 2 CREST CREST 2 ELEVATION PERSPECTIVE VIEW	5X 5859
DRY STORAGE 3' MAX F12" MINIMUM	WIDTH
GEDTEXTILE APRON (SEE NOTE)	
CLASS C EXCAVATE FOR SMALL RIP-RAP 4" TO 7" REQUIRED WET	STANDARD SYMBOL PLAN VIEW
STORAGE SECTION A-A STORE/RIPRAP SEDIMENT	SCE
BOTTOM ELEVATION TRAP ST-IV.	Construction
Construction Specifications	1. Length - minimum of 50' (#30' for single
1. Area under embankment shall be cleared, grubbed and strippsdate any vegetation and root mat. The pool area shall be cleared,	2. Width - 10' minimum, should be flared at radius.
2. The fill material for the embankment shall be free of roots and the state of the	3. Geotextile fabric (filter cloth) shall b
material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being	to placing stone. ##The plan approval auth residences to use geotextile.
constructed.	4. Stone - crushed aggregate (2" to 3") or equivalent shall be placed at least 6" deep
3. All cut and fill slopes shall be 2:1 or flatter.	entrance.
4. The stone used in the outlet shall be small rip-rap 4" to 7" in size with a 1' thick layer of 3/4" to 11/2" washed aggregate place(s)	5. Surface Water – all surface water flowin entrances shall be piped through the entran
on the upstream face of the outlet. Stone facing shall be as necessary to prevent clogging. Geotextile Class C may be substituted for the stone facing by placing it on the inside face	installed through the stabilized constructi mountable berm with 5:1 slopes and a minimu
of the stone outlet.	to be sized according to the drainage. Whe has no drainage to convey a pipe will not b
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to one half of the sediment has accumulated to	according to the amount of runoff to be con 6. Location ~ A stabilized construction ent
wet storage depth of the trap. Removed sediment shall be deportted in a suitable area and in such a manner that it will not erode.	where construction traffic enters or leaves the site must travel over the entire length
U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT	U.S. DEPARTMENT OF AGRICULTURE PAG
SOIL CONSERVATION SERVICE C - 9 - 10 WATER MANAGEMENT ADMINISTRATION	SOIL CONSERVATION SERVICE F - 1
DES: L.C.	
	AVOCA
DRN: AOS	EROSION AN
CHK: L.C.	L CONTROL

DATE 600' SCALE MAP NO.

REVISION



SECTION

LOW

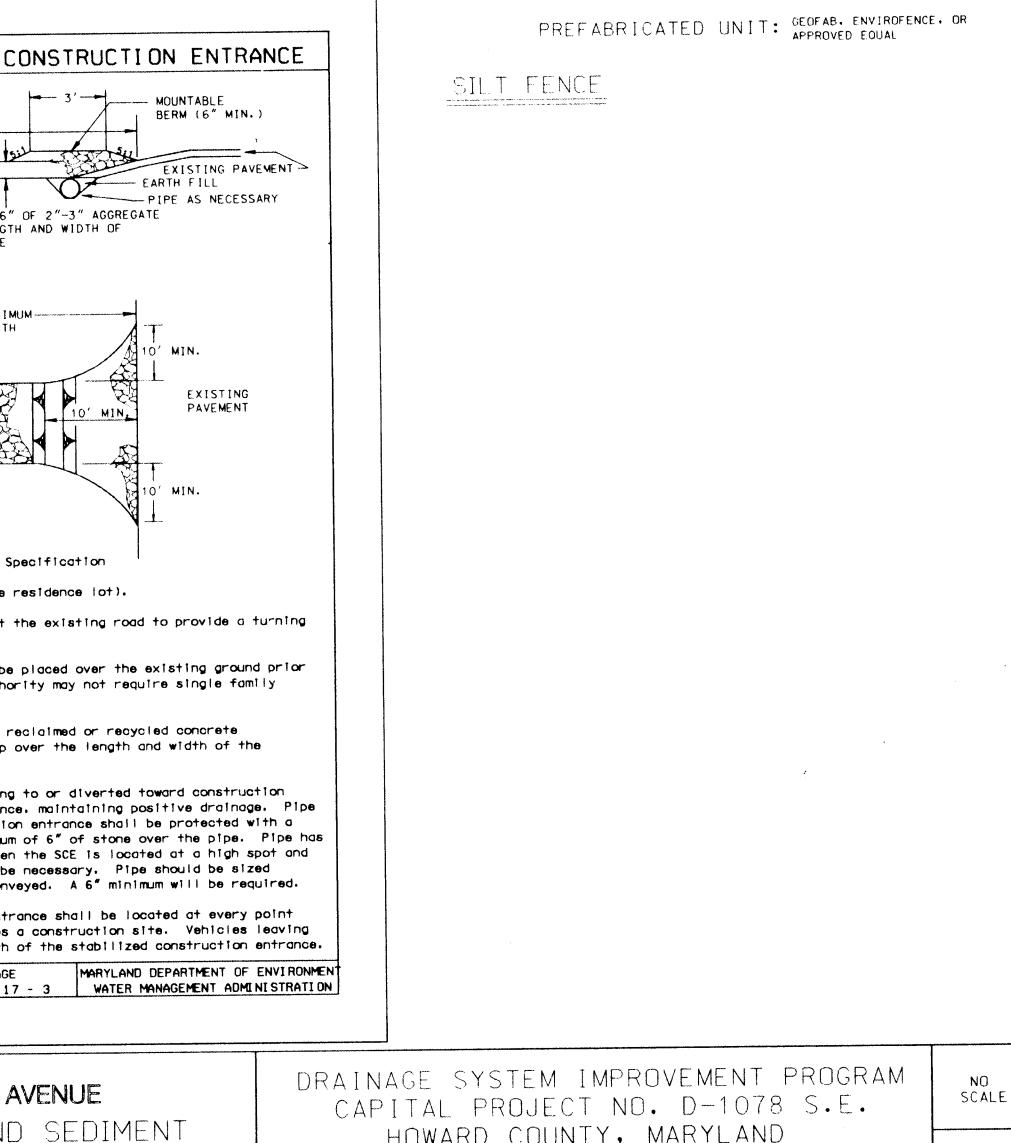
EMBED FILTER CLOTH

MIN. 8" INTO GROUND

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND BOTTOM.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

POSTS: STEEL (EITHER T OR U TYPE) DR 2" HARDWOOD FENCE: WOVEN WIRE, 14 1/2 GAUGE, 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABLINKA T140N OR APPROVED EQUAL



ND SEDIMENT CONTROL DETAILS

BLOCK NO.

HOWARD COUNTY, MARYLAND CONTRACT NO. ELECTION DISTRICT NO. 6

SHEET <u>6</u> OF <u>6</u>