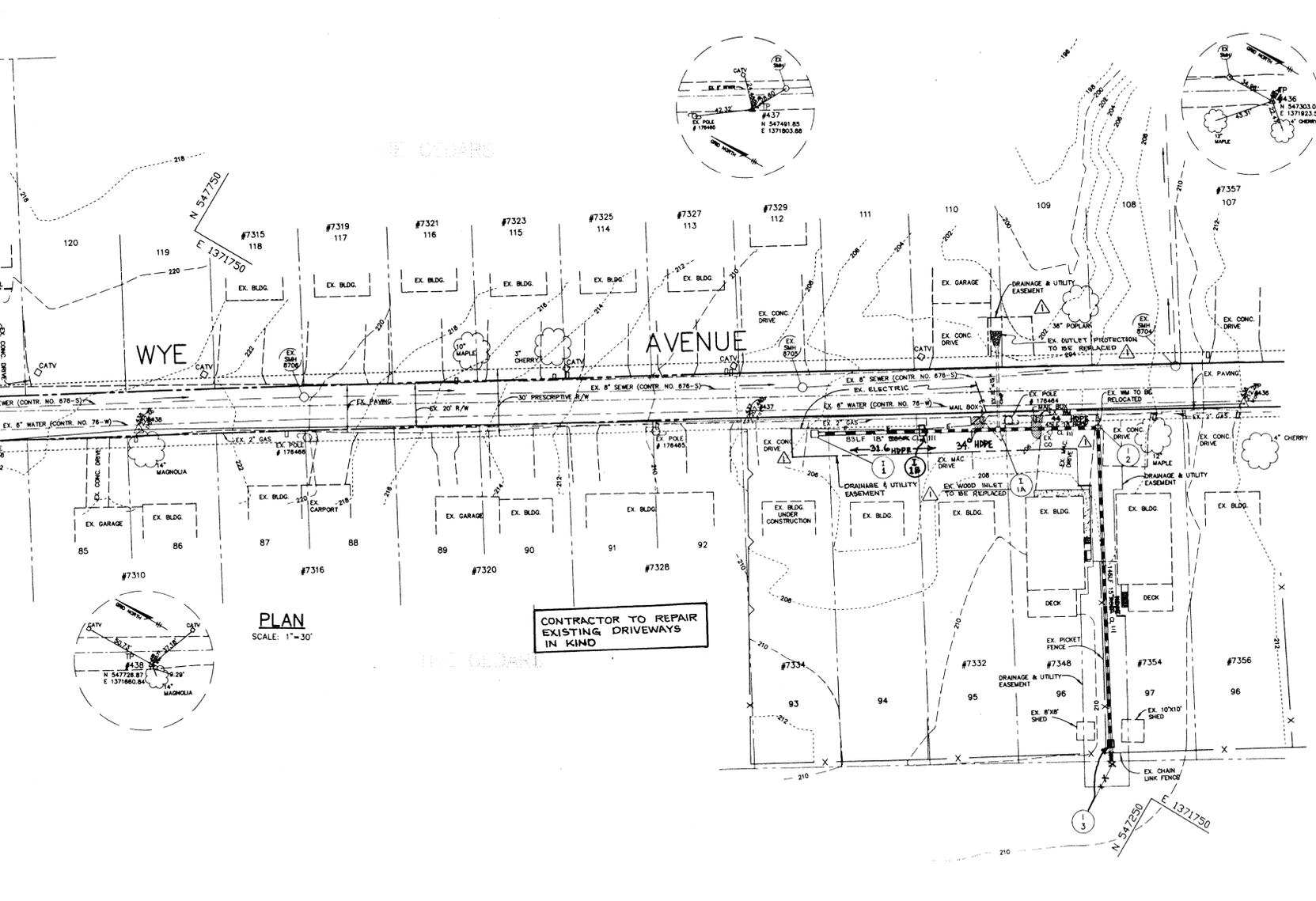
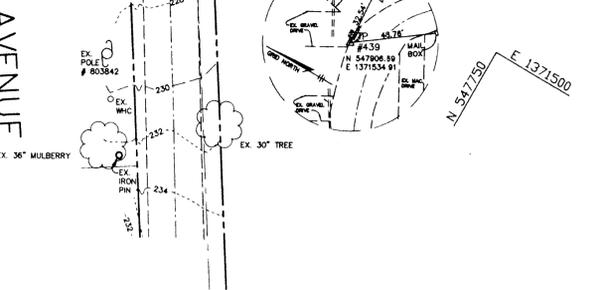
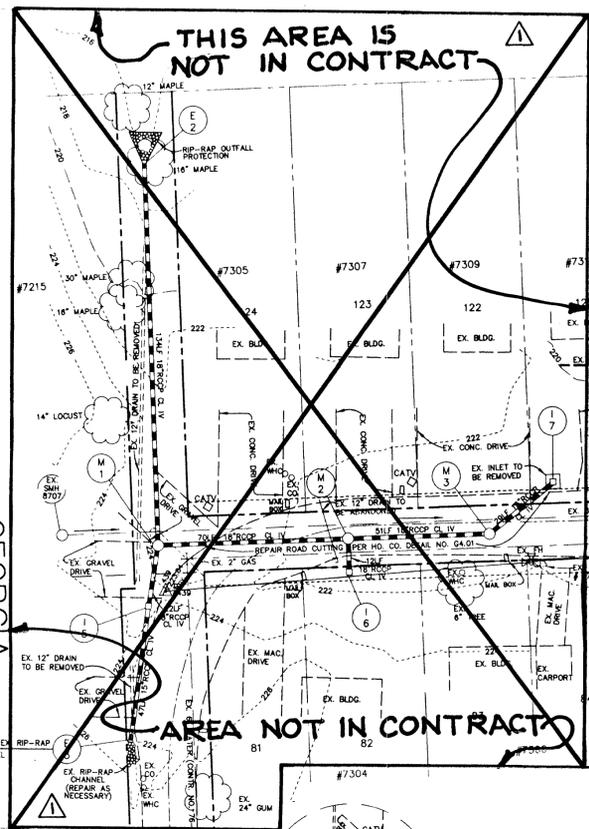


Copyright ADC The Map People  
Permitted Use No. 20894285  
VICINITY MAP  
SCALE: 1" = 200'



PLAN  
SCALE: 1"=30'  
CONTRACTOR TO REPAIR  
EXISTING DRIVEWAYS  
IN KIND

**BENCHMARKS**  
BM#1 HO. CO. SURVEY CONTROL STATION 43EA  
STAMPED CONC. MON.  
28' SOUTHEAST OF FH LOCATED ON THE  
SOUTHEAST CORNER OF POCOMOKE AVE.  
AND ASSATEAGUE DR. AND 9.8' OFF NORTH  
SIDE OF ASSATEAGUE DR. FACE OF CURB.  
ELEV. 242.94  
N 546594.00 E 1373621.75  
BM#2 HO. CO. SURVEY CONTROL STATION 0030  
STAMPED CONC. MON.  
28' EAST OF FH LOCATED NEAR INTERSECTION  
OF HICKS RD. AND U.S. ROUTE 1 AND 10.8'  
WEST OF THE WESTERN SIDE OF ROUTE 1.  
ELEV. 217.57  
N 545924.89 E 1371561.67

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS M.S.H.A. STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:  
MISS UTILITY 1-800-257-7777  
C&P TELEPHONE COMPANY 725-9978  
HOWARD COUNTY BUREAU OF UTILITIES 313-4900  
A&T CABLE LOCATION DIVISION 363-3553  
BALTIMORE GAS & ELECTRIC COMPANY 685-0123  
STATE HIGHWAY ADMINISTRATION 531-5533
- 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 COMMENCEMENT OF WORK.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SURFACE.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED MAY, 1995 BY RIEMER MUEGGE AND ASSOCIATES, INC. CONTOURS SHOWN AT 2' FOOT INTERVAL.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL 02.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- UNLESS NOTED ON THE PLAN, ALL STORM DRAIN PIPE IS TO BE CLASS IV REINFORCED CONCRETE PIPE.
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6" CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES, AT THE CONTRACTORS EXPENSE.
- PROPERTY INFORMATION HAS BEEN OBTAINED FROM THE BEST AVAILABLE SOURCE, AND CANNOT BE WARRANTED TO BE COMPLETE AND ACCURATE.
- LENGTH OF OPEN TRENCH IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH WILL BE BACKFILLED AND STABILIZED IN ONE WORK DAY, WHICHEVER IS SHORTER.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT.
- ADVISE SEDIMENT AND EROSION CONTROL INSPECTOR 48 HOURS IN ADVANCE OF COMMENCING WORK. (1 DAY)
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS DIRECTED BY HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR. (2 DAYS)
- INSTALL NEW STORMDRAINS (15 DAYS)
- STABILIZE DISTURBED AREA AS INDICATED ON THE DRAWING. (2 DAYS)
- REMOVE SEDIMENT AND EROSION CONTROL DEVICES WITH PERMISSION OF INSPECTOR AND STABILIZE BALANCE OF AREA. (1 DAY)

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications

Review for Howard Soil Conservation District and meets technical requirements.

NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

HOWARD SOIL CONSERVATION DISTRICT DATE

BY THE DEVELOPER:  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Paul R. Sporn* 7/16/98  
DEVELOPER DATE

BY THE ENGINEER:  
I 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 THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*Arthur E. Muegge*  
ENGINEER DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James J. Lewis* 7/17/98  
DIRECTOR OF PUBLIC WORKS DATE

*Paul R. Sporn* 7/16/98  
CHIEF, BUREAU OF ENGINEERING DATE

*Elizabeth A. Calver* 6/1/98  
CHIEF, DIVISION OF TRANSPORTATION DATE

*Howard S. Shultz* 7/15/98  
CHIEF, BUREAU OF HIGHWAYS DATE

RIEMER MUEGGE & ASSOCIATES, INC.  
Engineers, Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282  
8000/908104708 RDP1.DWG

*Arthur E. Muegge*  
ARTHUR E. MUEGGE #707

DES: GL					
DRN: BRD					
CHK: JDP					
DATE: 4/8/96					
BY NO.					
REVISION					
DATE					

DELETED AREA NOT IN CONTRACT; REVISED EASEMENT BOTH SIDES OF ROAD. MODIFIED SD TO KEEP EX. INLET @ 12" X 15" CMP, LENGTHENED SD RUN.

DATE: 7-19-98

SITE PLAN

600' SCALE MAP NO. 4.3 BLOCK NO. 8

DRAINAGE IMPROVEMENTS  
WYE AVENUE  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT No. CA-95-13  
CAPITAL PROJECT No. D-1078

SCALE AS SHOWN

SHEET 1 OF 2

AS-BUILT 12-14-98

**STRUCTURE SCHEDULE**

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP. ELEV.	REMARKS
I-1	S	N 547461.99 E 1371811.05 E 1371880.78	-	209.00	205.80	SEE HO CO STD DETAIL SD 4.22
I-2	S	N 547273.25 E 1371754.06	209.86	202.81	204.00	SEE HO CO STD DETAIL SD 4.22
I-3	S	N 547273.25 E 1371754.06	-	209.25	209.10	SEE HO CO STD DETAIL SD 4.22
I-1A	S	SEE PLAN	202.99(2)	202.49	EX. GROUND	SEE HO CO STD DETAIL SD 4.22
I-6	S	N 547509.39 E 1371527.21 N 547853.82 E 1371573.93	219.18	218.93	223.60	SEE HO CO STD DETAIL SD 4.22
I-7	S	N 547807.57 E 1371638.44	-	217.51	220.80	SEE HO CO STD DETAIL SD 4.22
M-1	SHALLOW MANHOLE	N 547599.40 E 1371547.69	216.26 (SE) 218.08 (W)	216.16 (NE)	223.60	SEE HO CO STD DETAIL G 5.12
M-2	SHALLOW MANHOLE	N 547860.24 E 1371584.06	216.78 (SE) 218.08 (SE)	216.68	221.80	SEE HO CO STD DETAIL G 5.12
M-3	SHALLOW MANHOLE	N 547817.69 E 1371611.03	217.34	217.60	221.60	SEE HO CO STD DETAIL G 5.12
E-1	18" CONCRETE END SECTION	N 547447.73 E 1371887.96	-	201.65	-	SEE HO CO STD DETAIL SD 5.51
E-2	18" CONCRETE END SECTION	N 547989.72 E 1371644.65	-	215.36	-	SEE HO CO STD DETAIL SD 5.51
E-3	18" CONCRETE END SECTION	N 547447.73 E 1371483.53	-	220.00	-	SEE HO CO STD DETAIL SD 5.51

**TEMPORARY SEEDING NOTES**

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

**Seedbed Preparation:** Loosen upper three inches of soil by raking, disking 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 the period March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of creeping lovegrass (0.07 lbs. per 1000 sq. 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 2 1/8 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 3/4 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates 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, disking 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 sq. 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 (8 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:

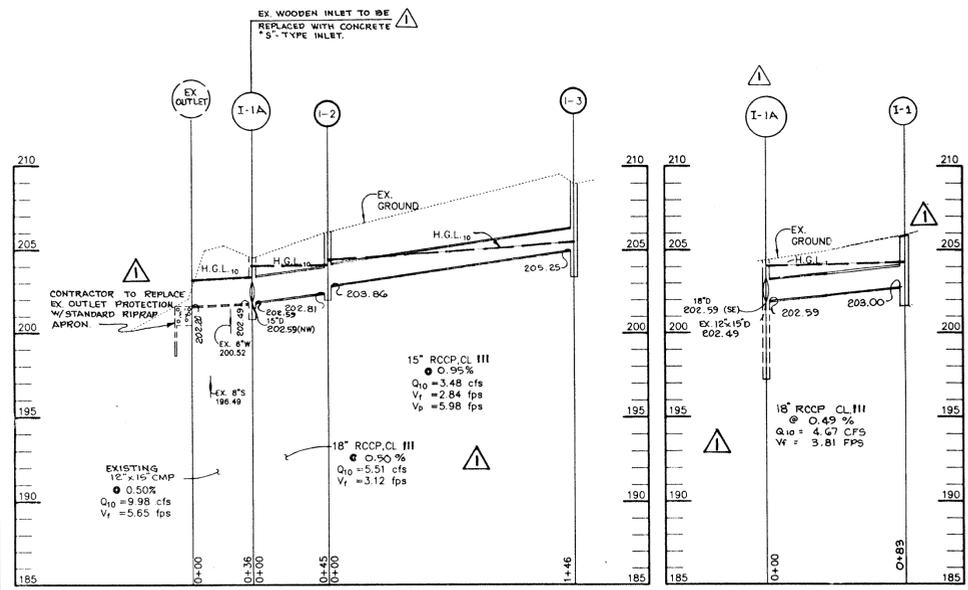
- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well-anchored straw.

**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 2 1/8 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 3/4 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

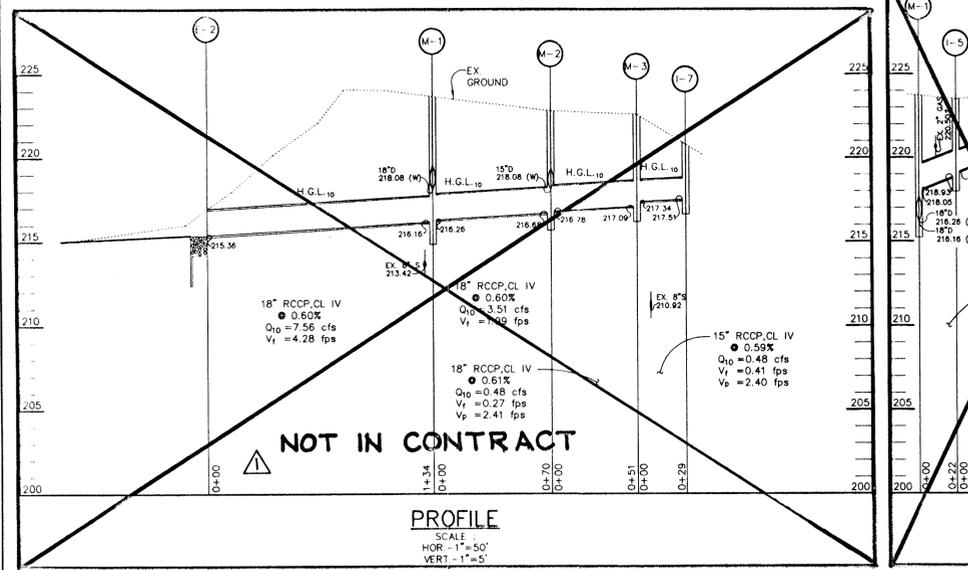
**Maintenance:** Inspect of seeded areas and make needed repairs, replacements and reseedings.

**SEDIMENT CONTROL NOTES**

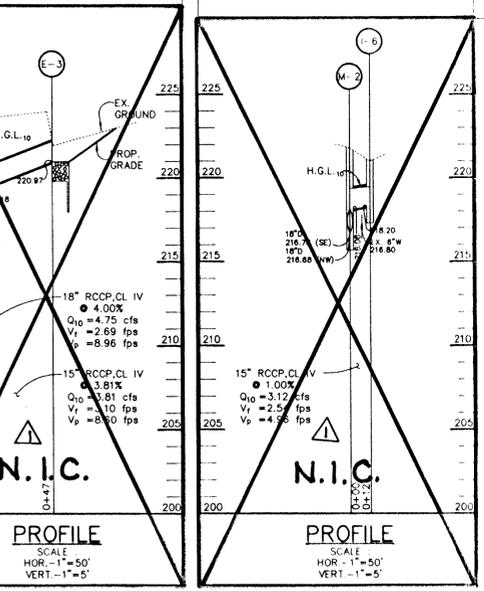
1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1825).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THEREOF.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE 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 AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG 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 PERMANENT STRUCTURES HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:  
TOTAL AREA OF SITE: N/A ACRES  
AREA TO BE ROOFED OR PAVED: N/A ACRES  
AREA TO BE VEGETATIVELY STABILIZED: N/A ACRES  
TOTAL CUT: N/A CU-YDS  
TOTAL FILL: N/A CU-YDS
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. SITE GRADING WILL BEGAIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
11. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BIG QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR DRAINAGE MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNROTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., 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.
14. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



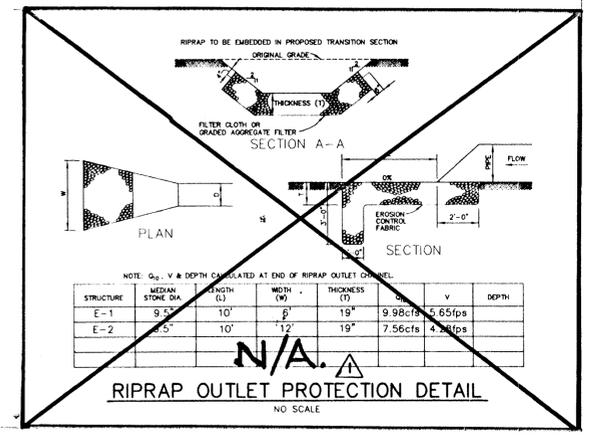
**PROFILE**  
SCALE  
HOR. - 1" = 50'  
VERT. - 1" = 5'



**PROFILE**  
SCALE  
HOR. - 1" = 50'  
VERT. - 1" = 5'



**PROFILE**  
SCALE  
HOR. - 1" = 50'  
VERT. - 1" = 5'



**N/A**

**RIPRAP OUTLET PROTECTION DETAIL**  
NO SCALE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

James J. [Signature] DIRECTOR OF PUBLIC WORKS  
Robert [Signature] CHIEF, BUREAU OF ENGINEERING  
Elizabeth A. [Signature] CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT

RIEMER MUEGGE & ASSOCIATES, INC.  
Planners • Engineers • Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9882  
800/0000 00 00

Arthur E. Muegge #8707

DES:	GL				
DRN:	BRD				
CHK:	JDP				
DATE:	4/8/96				
BY:					
NO.					
REVISION					
DATE					

STORM DRAIN PROFILES & DETAILS

600' SCALE MAP NO. 43 BLOCK NO. 8

DRAINAGE IMPROVEMENTS  
WYE AVENUE  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT No. CA-95-13  
CAPITAL PROJECT No. D-1038

SCALE AS SHOWN  
SHEET 2 OF 2

AS-BUILT 12-14-98