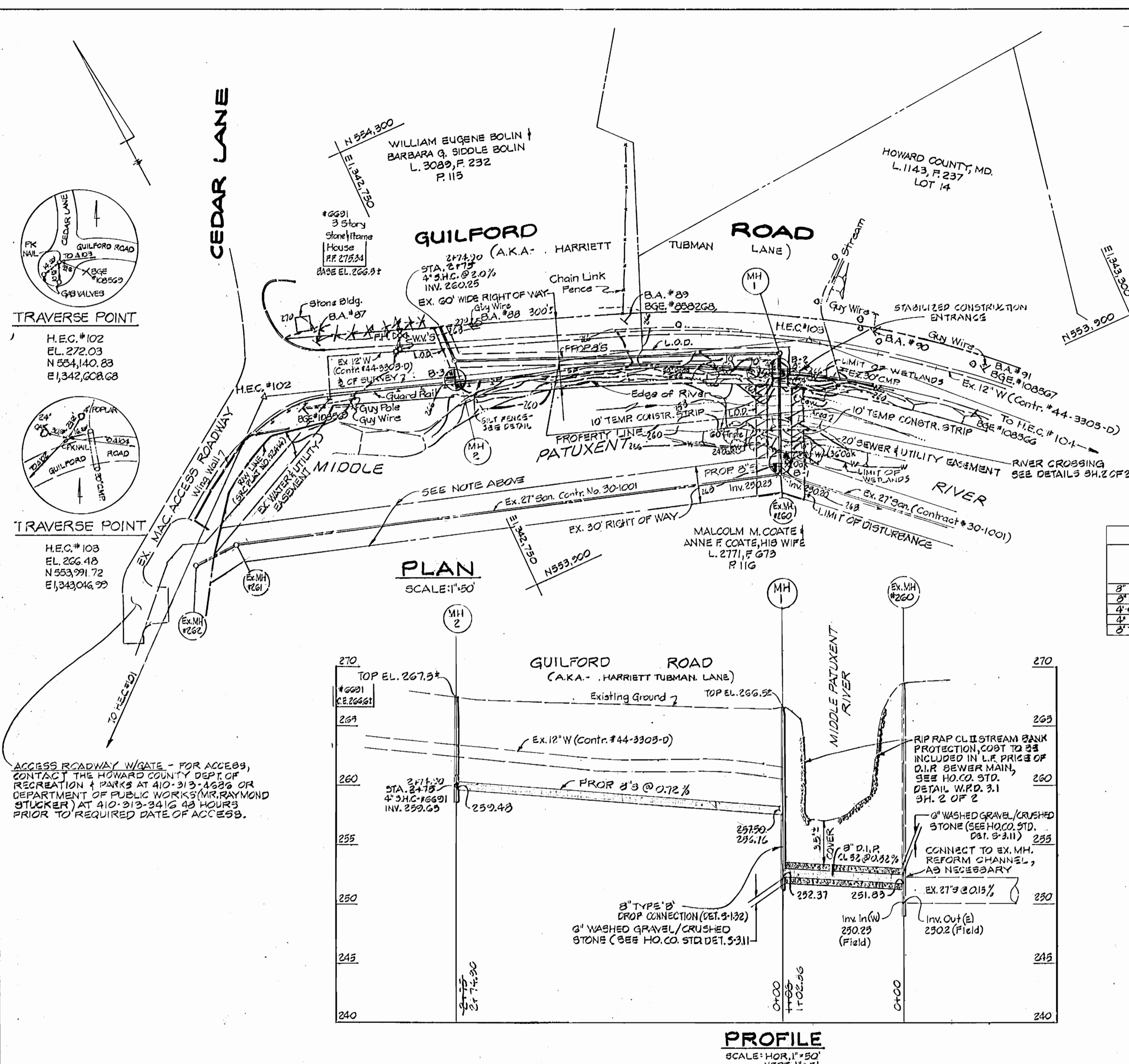
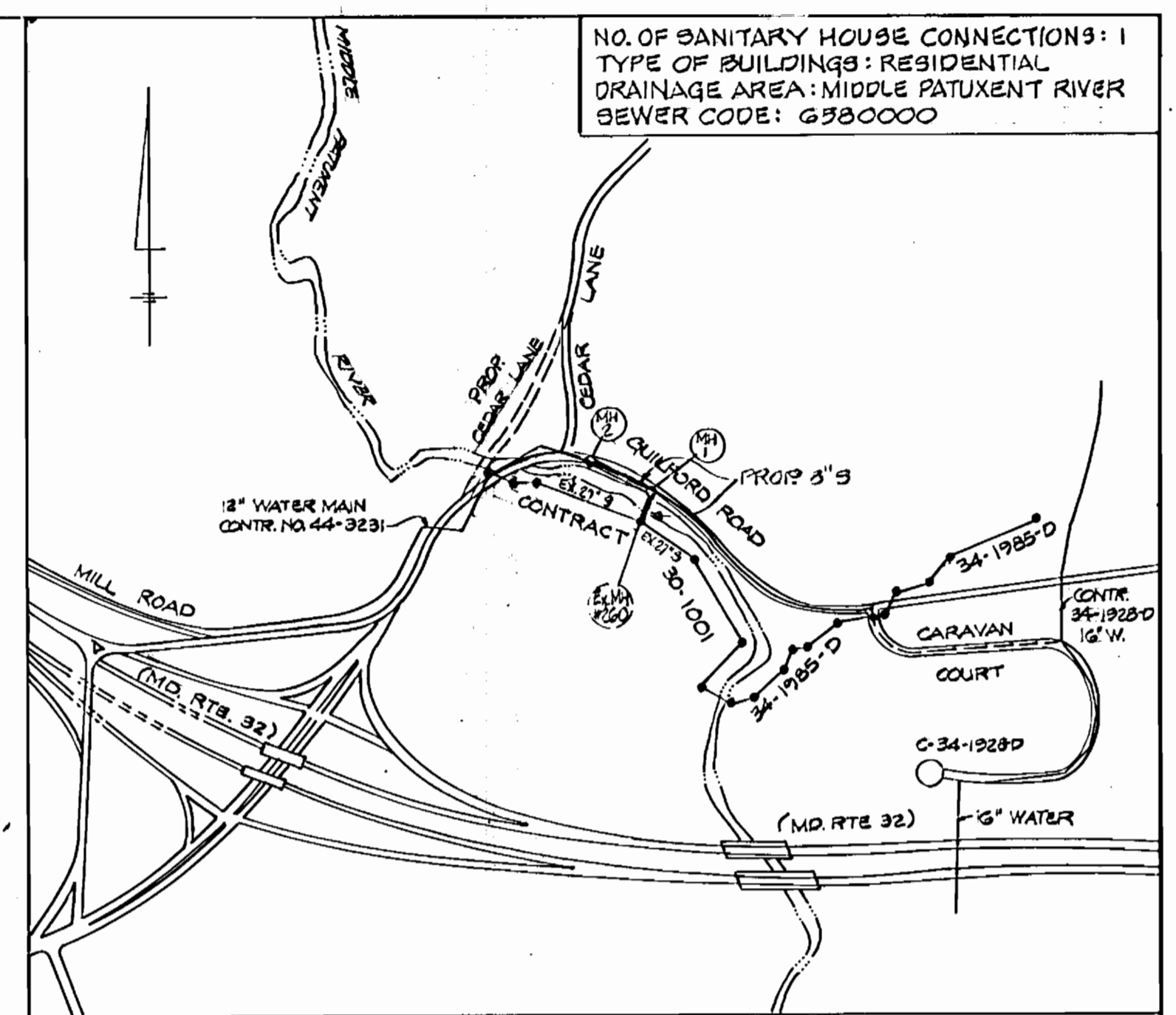


AS-BUILT 2/13/98



**NOTE:**  
 USE EASEMENT FOR CONSTRUCTION VEHICLE ACCESS TO SOUTH SIDE OF RIVER. VEHICLES SHALL NOT CROSS THE RIVER OR AT ANY TIME BE ALLOWED WITHIN THE STREAM BED OUTSIDE OF THE CONSTRUCTION AREA LIMITED BY THE SANDBAR/STONE DIVERSION(S). DISTURBANCE ALONG THIS ACCESS ROUTE SHALL BE KEPT TO AN ABSOLUTE MINIMUM. ANY DISTURBANCE THAT DOES OCCUR SHALL BE STABILIZED IMMEDIATELY. IF IMMEDIATE STABILIZATION IS NOT POSSIBLE OR DISTURBANCE IS RE-OCCURRING, THE CONTRACTOR SHALL INSTALL SILT FENCE ALONG THE NORTH SIDE OF THE EASEMENT FOR THE ENTIRE ROUTE.



**VICINITY MAP**  
 SCALE: 1" = 600'

**NOTE:**  
 CONTRACTOR SHALL CONTACT HOWARD COUNTY DEPARTMENT OF PARKS AND RECREATION- ATTENTION MR. RAUL DELERME (410) 313-4686 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

ITEMS	QUANTITIES ESTIMATED	AS BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" SEWER MAIN	271 L.F.	270.90 L.F.	9DR 33	J.M. MFG./BRS
8" DIP CL 32	22 EA.	22.00 L.F.	D.I.P.	GRiffin PIPE PROD.
4" DIA. M.H.	2 EA.	2 EA.	CONCRETE	ATLANTIC PRECAST
4" S.H.C.	31 L.F.	31 L.F.	9DR 33	J.M. MFG./BRS
8" TYPE B DROP CONN.	1 EA.	1 EA.	6DR 33	J.M. MFG./BRS

RESTORATION SCHEDULE		
LOCATION	LENGTH	TYPE
<b>8" SANITARY</b>		
EX. MH#260 TO MH#1		
STA. 0+00 TO STA. 0+15	15 L.F.	SEED & MULCH
STA. 0+15 TO STA. 0+33	10 L.F.	RIP RAP
STA. 0+33 TO STA. 0+75	15 L.F.	RIP RAP
STA. 0+75 TO STA. 1+03	15 L.F.	PAVING
<b>MH#1 TO MH#2</b>		
STA. 0+00 TO STA. 2+75	275 L.F.	PAVING
<b>4" S.H.C.</b>		
STA. 2+75	17 L.F.	PAVING
	14 L.F.	SEED & MULCH

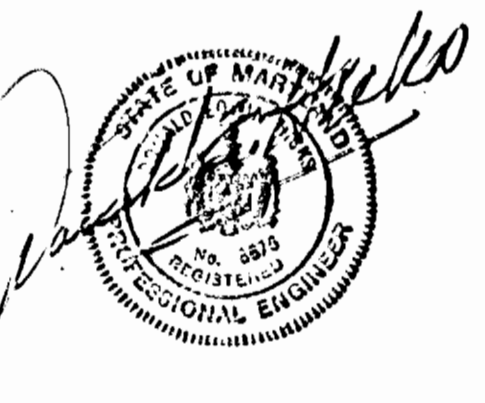
STAKEOUT DATA		
MAIN FITTING	DISTANCE	OFFSET
MH-1	H.E.C.#103 TO H.E.C.#102	20' 9" LT.
MH-2	H.E.C.#102 TO H.E.C.#103	163' 14" LT.

- GENERAL NOTES**
- Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
  - All horizontal controls are based on Maryland State Coordinates.
  - All vertical controls are based on U.S.G.S. data.
  - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
  - Clear all utilities by a minimum of 6'. Clear all poles by 5'-0" minimum on tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the Contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from money owed the Contractor. The Contractor shall coordinate with the utility companies to schedule the bracing of the poles.
  - For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (Latest Edition). The Contractor shall have a copy of Volume IV on the job.
  - Where test pits have been made on existing utilities, they are noted by the symbol [ ] at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the Contractor, two weeks in advance of construction operations at his own expense.
  - Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:  
 AT&T ..... 865-3883  
 BGE - Contractor Services ..... 950-4620  
 BGE - Underground Damage Control ..... 787-9068  
 Bureau of Utilities (BPW) ..... 313-4900  
 Bell Atlantic - MD, Inc. .... 597-9505  
 Colonial Pipeline Co. .... 795-1390  
 Miss Utility ..... 1-800-237-7777  
 State Highway Administration ..... 531-3533
  - Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the Contractor.
  - Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
  - The Contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days before any open cut of any County road or trenchless installation operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with BPW requirements per Section 18.11(k) of the Howard County Code.
  - MOE APPLICATION Tracking Number: 199761257 NON-TIDAL WETLANDS NO. 96-NT-1131
- SEWER NOTES**
- All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
  - All manholes shall be 4'-0" inside diameter unless otherwise noted.
  - Force mains shall be D.I.P. only.
  - Manholes shown with 12" and 18" walls are for brick manholes only.
  - Manholes designated V.I. in plan and profile shall have watertight frame and cover - Standard Detail G352. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
  - House(s) with the symbol "CNS" indicates cellar cannot be served.

THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 APPROVED: [Signature] DATE: 2/11/97  
 REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
 APPROVED: [Signature] DATE: 2/11/97  
 U.S. NATURAL RESOURCES CONSERVATION SERVICE

**DEVELOPER'S CERTIFICATION:**  
 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 CERTIFICATION OF ATTENDANCE AT A MARYLAND DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.  
 APPROVED: [Signature] DATE: 1/23/97  
 BUREAU OF ENGINEERING  
 DEPARTMENT OF PUBLIC WORKS.

**ENGINEER'S CERTIFICATION:**  
 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 COUNTY CONSERVATION DISTRICT.  
 APPROVED: [Signature] DATE: 1/23/97  
 HICKS ENGINEERING COMPANY, INC.  
 ENGINEERS • SURVEYORS • PLANNERS  
 200 EAST JOPPA ROAD, SUITE 402  
 TOWSON, MARYLAND 21286 TEL (410) 494-0001



**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
 APPROVED: [Signature] DATE: 1/23/97  
 APPROVED: [Signature] DATE: 1-29-97  
 CHIEF, BUREAU OF UTILITIES  
 CHIEF, WATER & SEWER DESIGN DIV.

**HICKS ENGINEERING CO., INC.**  
 ENGINEERS, SURVEYORS & PLANNERS  
 200 EAST JOPPA ROAD - SUITE 402  
 TOWSON, MARYLAND 21286-3160  
 (410) 494-0001

DESIGNED BY	DATE	REVISION	DATE
K.W.	12/13/96	1. REMOVE 4" S.H.C. TO HO. CO. PROP (LOT 14)	2/23/97
F.W.		2. REVISE DETAILS & SEQ. OF CONSTR. PER NOTE COMMENTS.	2/23/97
D.R.N.			
C.H.K.			
D.E.H.			
DATE: 12/13/96	BY: [Signature]	REVISION	DATE

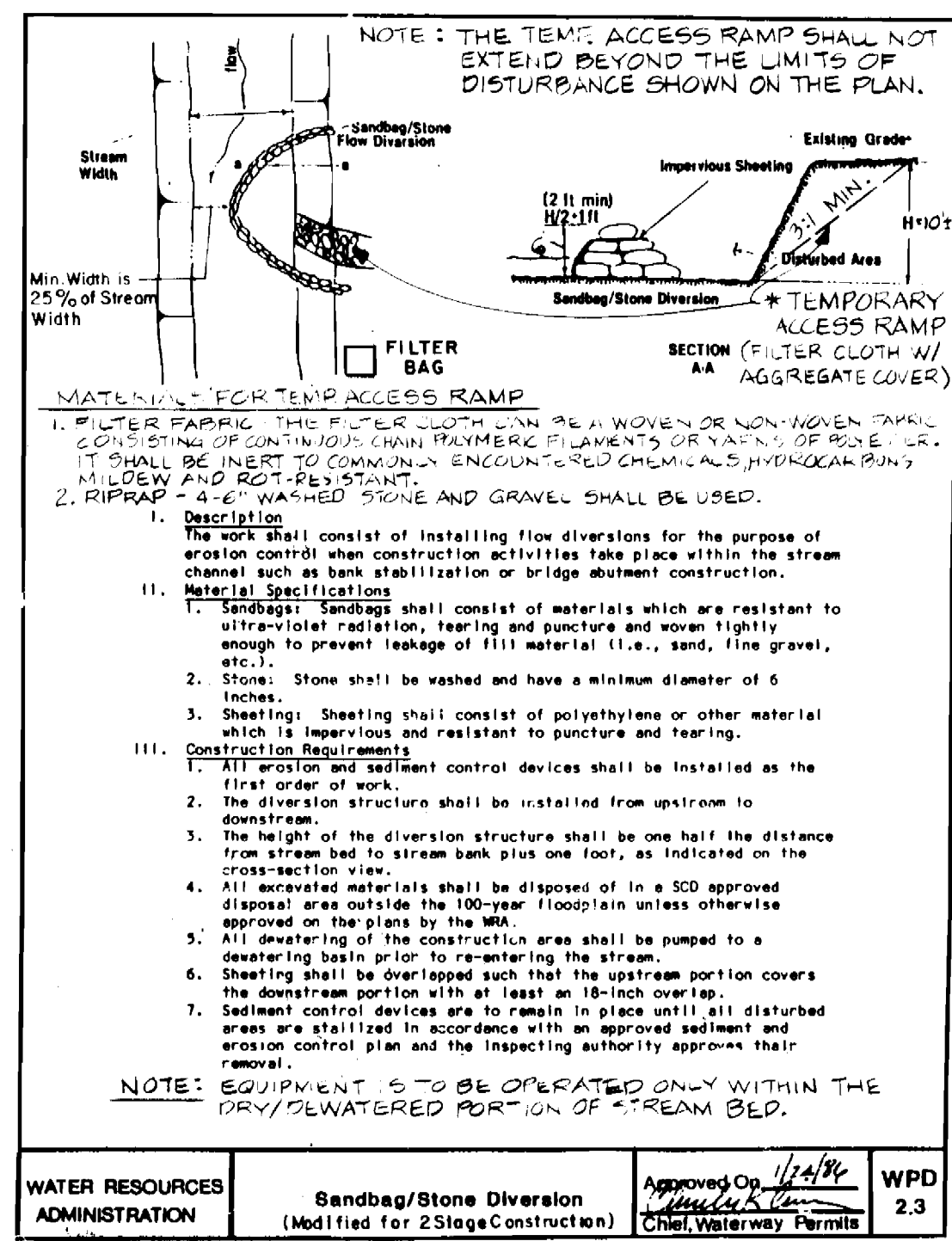
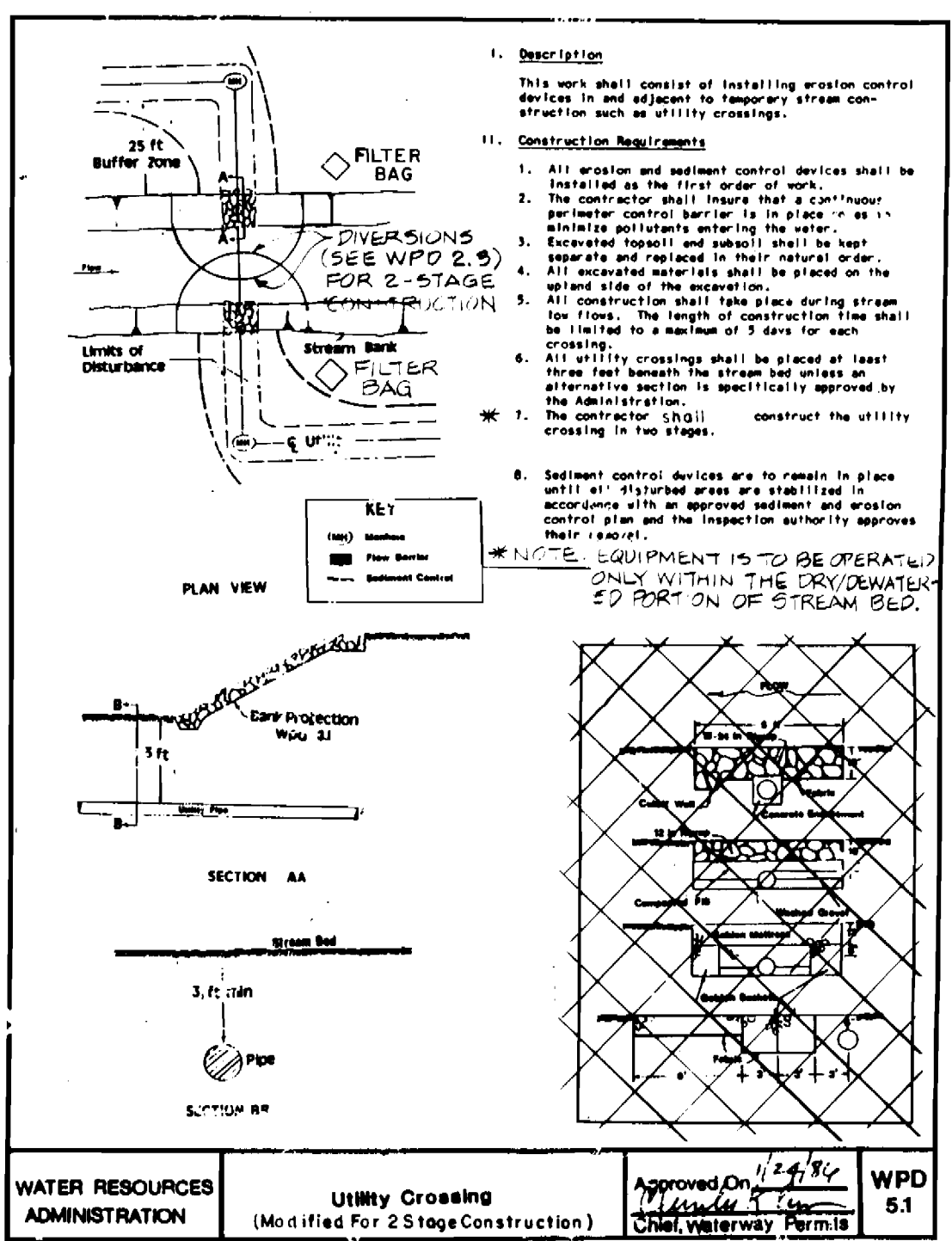
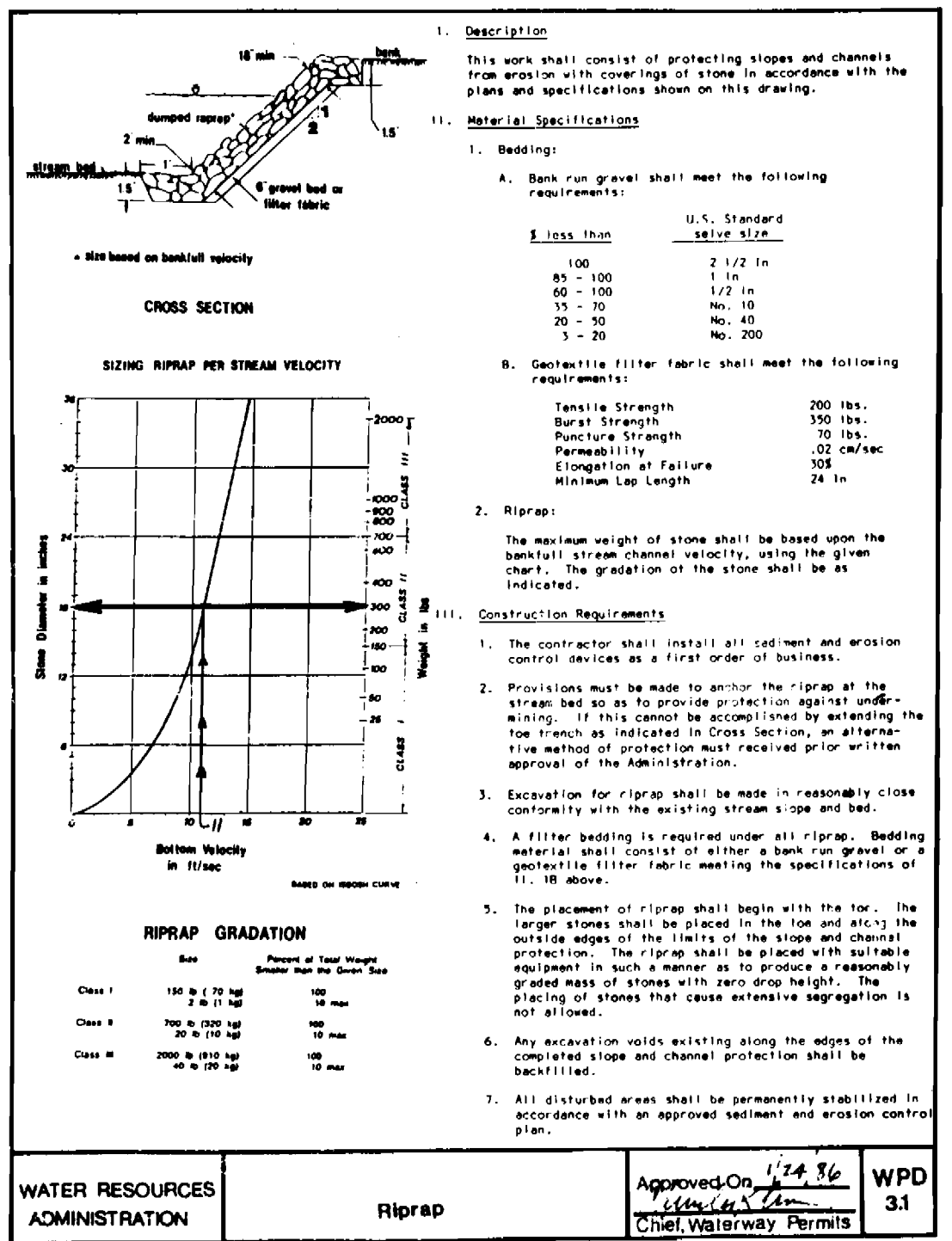
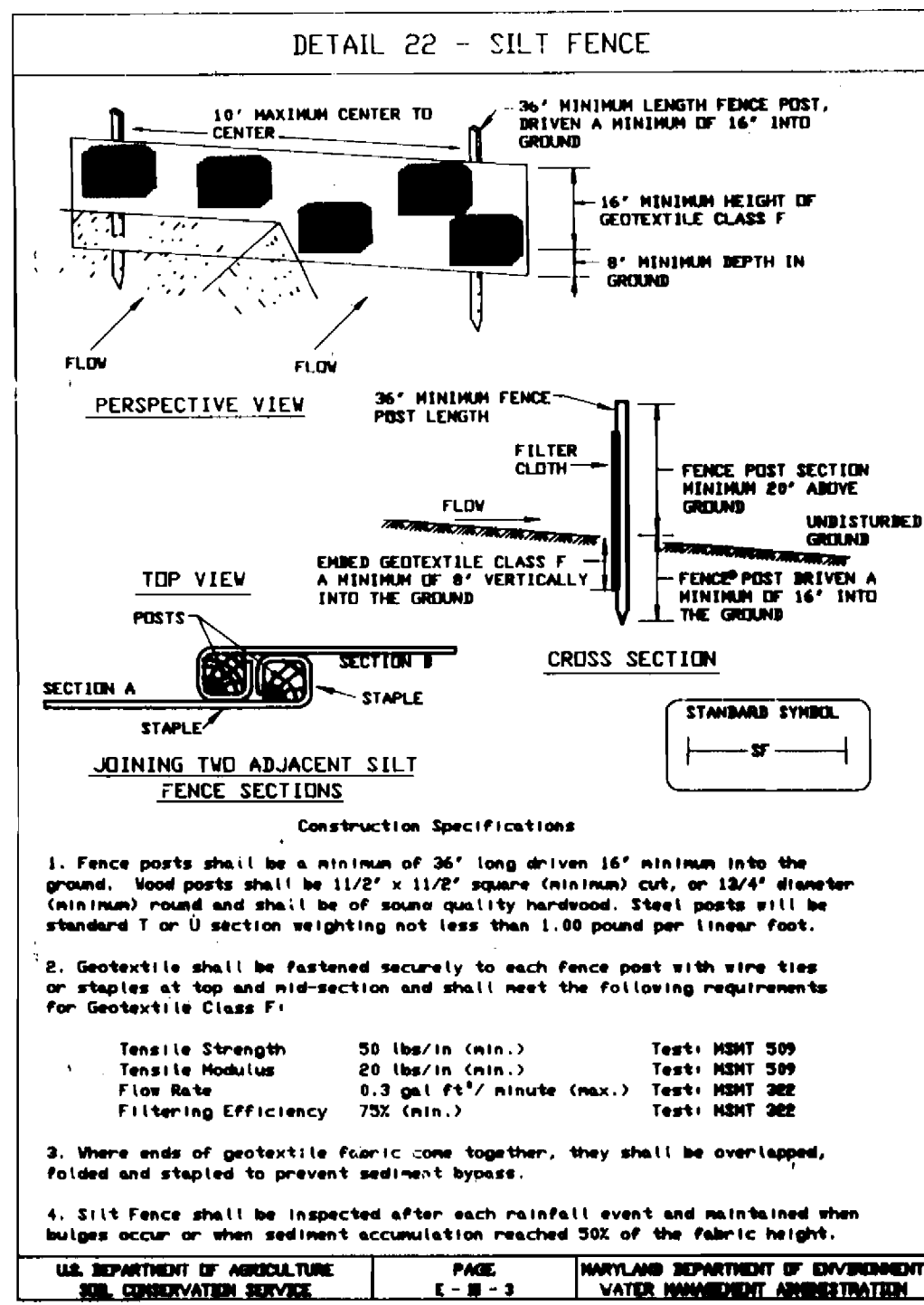
**PLAN AND PROFILE**  
**8" SEWER MAIN**  
 600' SCALE MAP NO. 3-35(N)-27 BLOCK NO. 27/23

**GUILFORD ROAD AT CEDAR LANE SEWER MAIN**  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CAPITAL PROJECT S-6193  
 CONTRACT NO. 30-3587

SCALE AS SHOWN  
 SHEET 1 OF 2

AS-BUILT 2/13/98



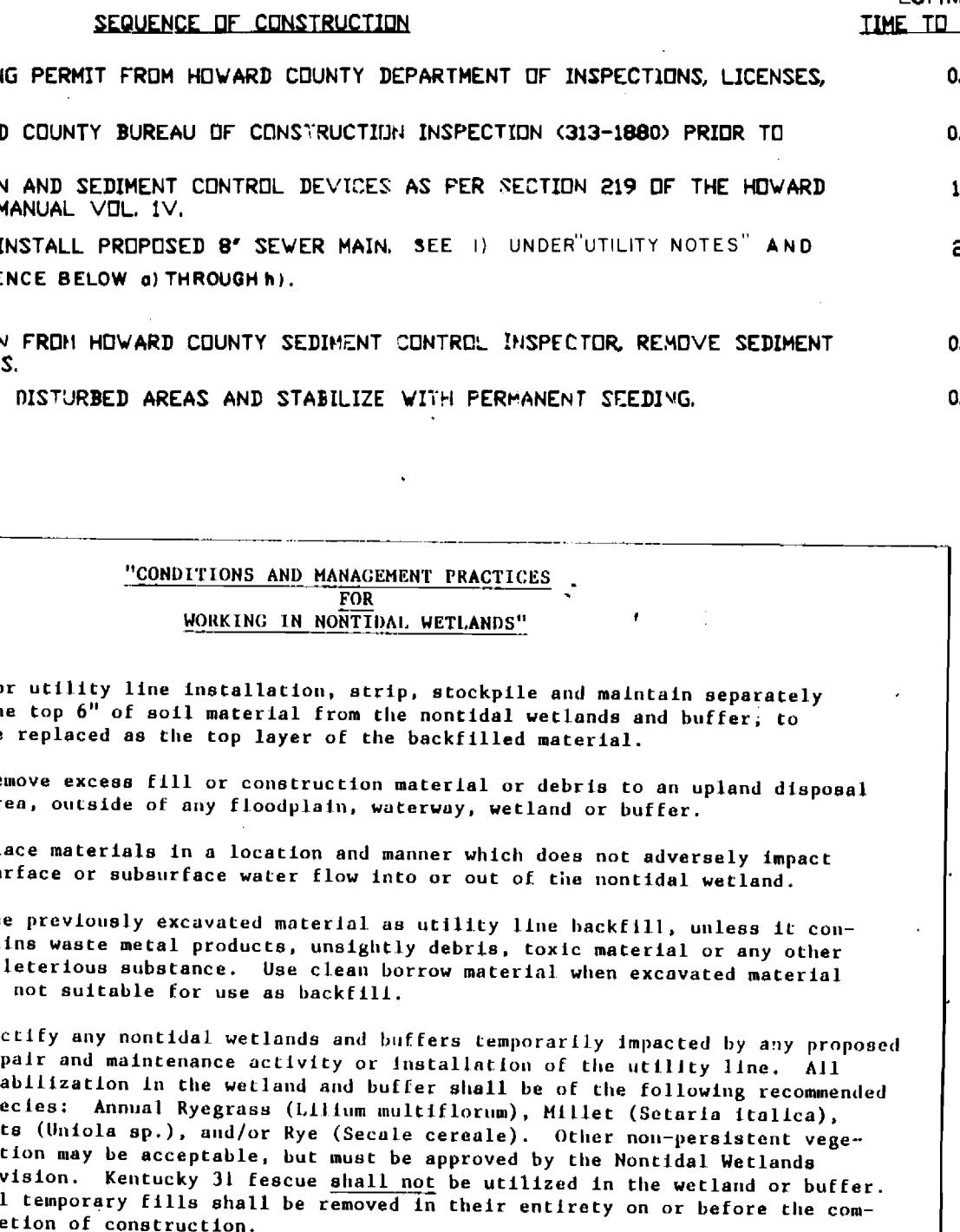
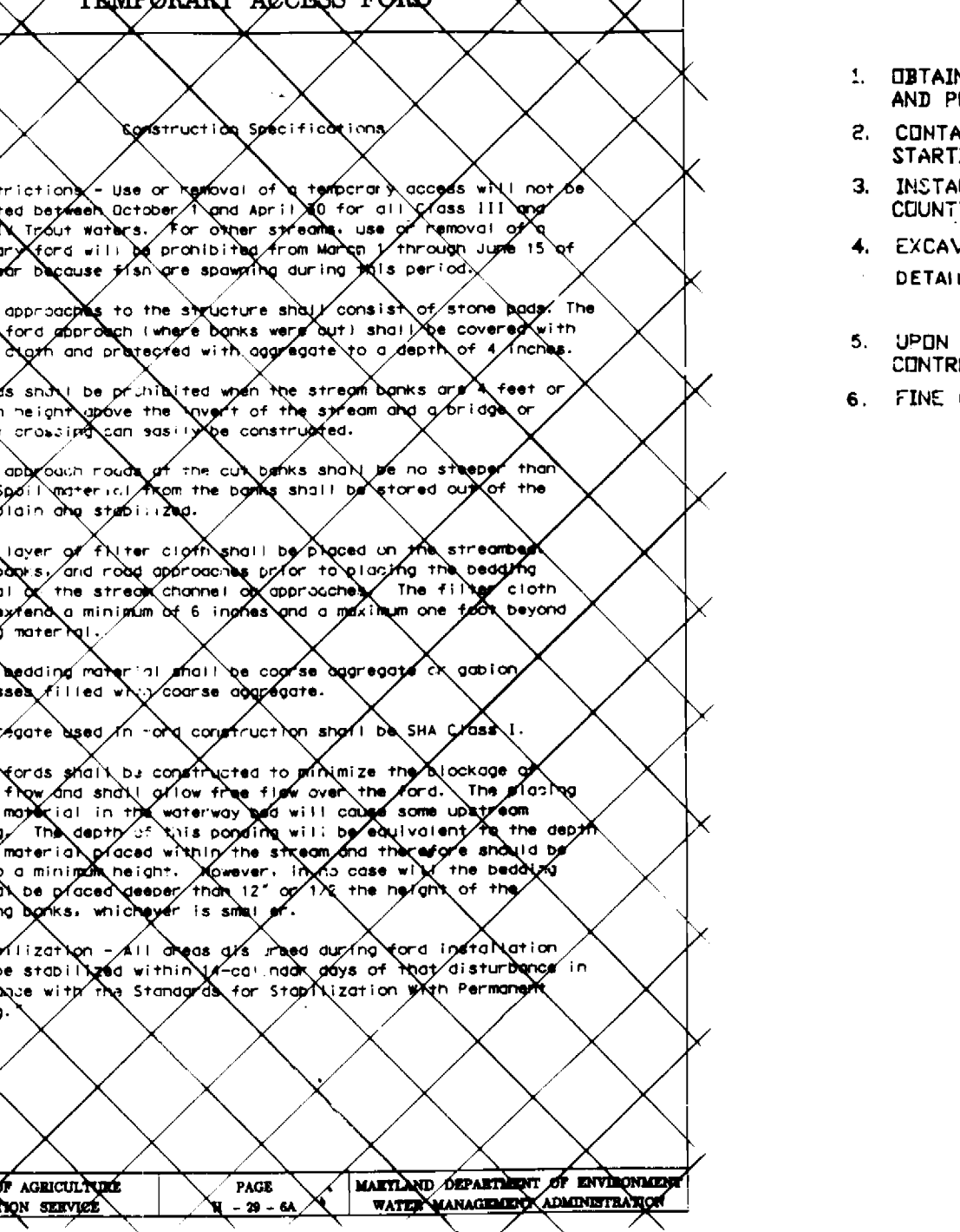
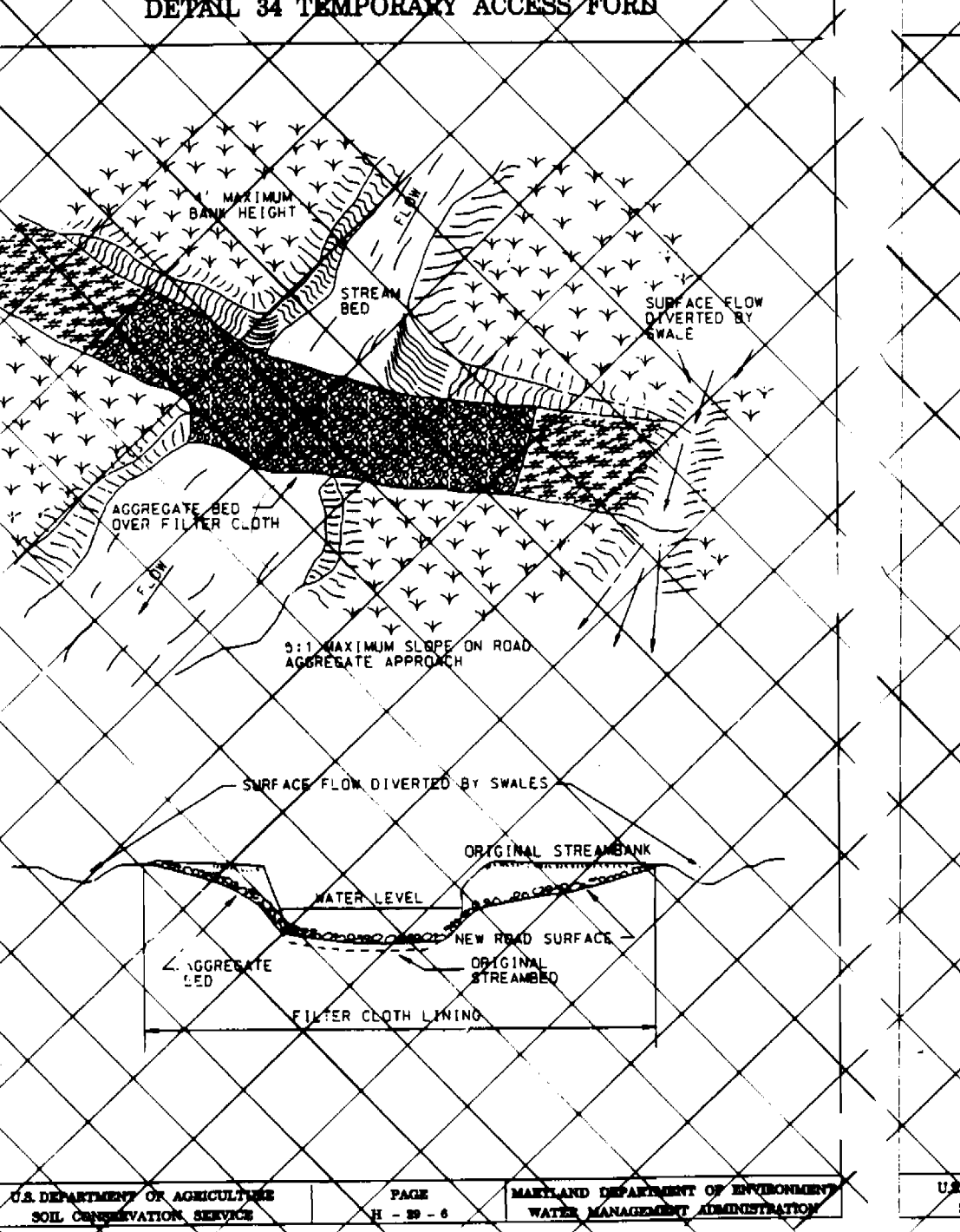
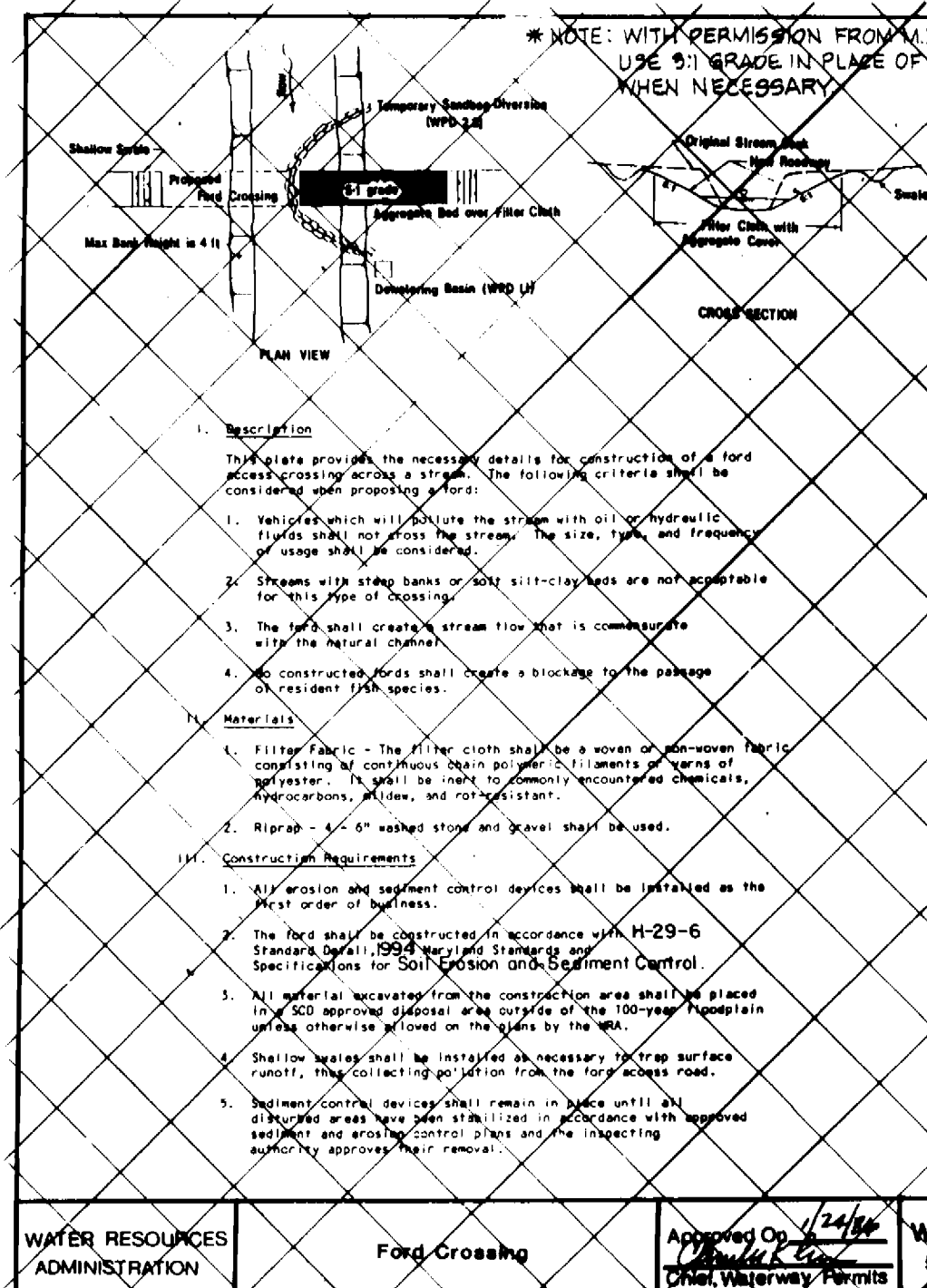


**UTILITY NOTES**

- OPEN ONLY THAT SECTION OF TRENCH THAT WILL BE BACKFILLED AND STABILIZED EACH DAY.
- PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1880).
- ALL VEGETATIVE 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.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEDIMENT CONTROL, SEEDING AND MULCHING CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:  
TOTAL AREA OF SITE: N/A ACRES  
AREA DISTURBED: 0.15 ACRES  
AREA TO BE ROOFED OR PAVED: 0.05 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 0.10 ACRES  
TOTAL CUT: 750 CU. YDS.  
TOTAL FILL: 750 CU. YDS.
- OFFSITE WATER/BORROW AREA LOCATION-SITE WITH A CURRENT, ACTIVE GRADING PERMIT.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF CONSTRUCTION OF PERIMETER AND SEDIMENT CONTROL. 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.



**SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS. 0.5 WEEK
- CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION (313-1880) PRIOR TO STARTING DATE. 0.5 WEEK
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV. 1.0 WEEK
- EXCAVATE AND INSTALL PROPOSED BY SEWER MAIN. SEE 1) UNDER "UTILITY NOTES" AND DETAILED SEQUENCE BELOW (if THROUGH). 2.0 WEEKS
- UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES. 0.5 WEEK
- FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING. 0.5 WEEK

**ESTIMATED TIME TO COMPLETE**

0.5 WEEK

0.5 WEEK

1.0 WEEK

2.0 WEEKS

0.5 WEEK

0.5 WEEK

**PERMANENT SEEDING NOTES**

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

**SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

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

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 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 TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREA/FORM FERTILIZER (9 LBS/1000 SQ. FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 100 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 (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MARCH 1 THRU APRIL 30, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE (14 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 OF 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 1.5 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GALLONS/SQ. FT.) FOR ANCHORING.**

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

\* SEE CONDITION 'e' (CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS) FOR SEEDING WITHIN THE WETLANDS & BUFFER AREAS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
  - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
  - Organic content of topsoil shall be not less than 1.5 percent by weight.
  - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
  - No soil or seed shall 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 dispersion of phytotoxic materials.
- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

PAGE 2 OF 3

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

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U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

PAGE 2 OF 3

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

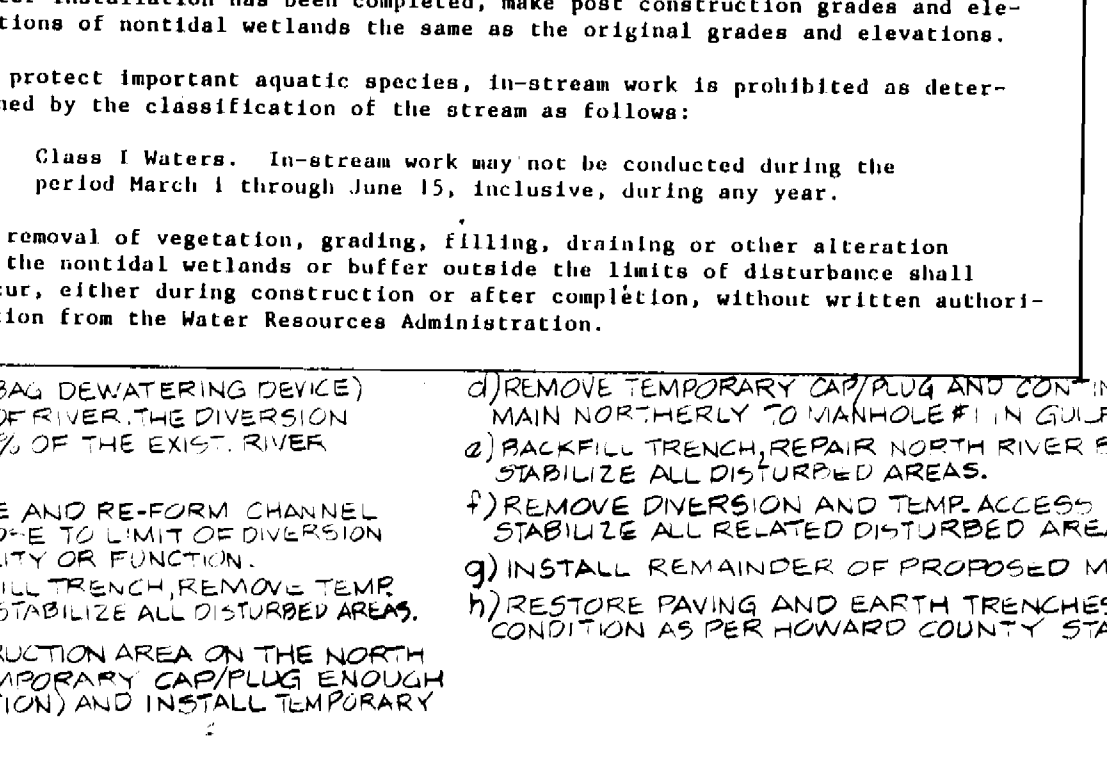
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U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

PAGE 2 OF 3

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION



**TEMPORARY EROSION CONTROL MEASURE**

CONSTRUCTION SPECIFICATIONS

1. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches.

2. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches.

3. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches.

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7. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches.

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9. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches. The riprap shall be placed on the stream bed and covered with aggregate to a depth of 6 inches.

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U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

PAGE 2 OF 3

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: 2/3/97  
Date: 1/29/97

Chief, Bureau of Engineering: 1/29/97  
Date: 1-29-97

Chief, Bureau of Utilities: 2/3/97  
Date: 1-29-97

Chief, Water & Sewer Design Div.: 1-29-97  
Date: 1-29-97

HICKS ENGINEERING CO., INC.  
ENGINEERS, SURVEYORS & PLANNERS  
200 EAST JOPPA ROAD - SUITE 402  
TOWSON, MARYLAND 21286-3160  
(410) 494-0001

Professional Engineer Seal: State of Maryland, No. 11912, Date: 11/96

DES: K.W.  
DRN: L.C.  
CHK: D.E.H.  
DATE: 11/96

BY: NO. REVISION DATE

1. REMOVE 4" S.H.C. TO H.Q. CO. PROP. LOT 1A 1/22/97  
2. REVISE DETAILS & SEQ. OF CONSTR. PER MDE COMMENTS. 2/25/97

DETAIL SHEET

600' SCALE MAP NO. S-36/W-99 BLOCK NO. 29/23

GUILFORD ROAD AT CEDAR LANE SEWER MAIN  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT S-6193  
CONTRACT NO. 30-3587

SCALE AS SHOWN

SHEET 2 OF 2