

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	FORCE MAIN PLAN
3	FORCE MAIN PLAN
4	FORCE MAIN PROFILE
5	FORCE MAIN PROFILE & DETAILS
6	STREAM CROSSING DETAILS
7	DETAILS
8	PLAN
9	PLAN
10	SEPTIC TANK, DISTRIBUTION BOX AND TRENCH DETAILS AND NOTES
11	PROFILES
12	SEDIMENT CONTROL NOTES & DETAILS

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
SIMPLEX GRINDER PUMP *	4 EA.			
DUPLEX GRINDER PUMP	6 EA.			
1 1/2" HOUSE CONNECTION	400 L.F.			
2" FORCE MAIN	4,382.5 L.F.			
TERMINAL FLUSHING CONNECTION	7 EA.			
*TRANSITION MH	2 EA.			
4" PVC SCH. 40 PERFORATED LATERAL	4,500 L.F.			
4" Ø PVC SCH. 40 GRAVITY PIPE	1,635 L.F.			
6" Ø PVC SCH. 40 GRAVITY PIPE	915 L.F.			
5,000 GALLON SEPTIC TANK	4 EA.			
DISTRIBUTION BOX (VARIOUS SIZES)	8 EA.			
6" GATE VALVE AND ROADWAY BOX	8 EA.			
SEPTIC TANK EFFLUENT FILTER	4 EA.			
4" Ø PVC SCH. 40 LATERAL INSPECTION	45 EA.			
AIR RELEASE MANHOLE	1 EA.			
4" GATEVALVE & ROADWAY BOX	45 EA.			
NAME OF UTILITY CONTRACTOR				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

*ENVIRONMENTAL ONE OR EQUAL SEE SHEET 7 OF 12

SHARED SEPTIC SYSTEM FLOW TABLE			
SHARED SEPTIC SYSTEM	# OF LOTS	# OF BEDROOM HOUSE	TOTAL SYSTEM FLOW
SHARED SEPTIC SYSTEM "A"	8 LOTS	7 - 4 BEDROOMS 1 - 5 BEDROOMS	4,950 GPD
SHARED SEPTIC SYSTEM "B"	8 LOTS	7 - 4 BEDROOMS 1 - 5 BEDROOMS	4,950 GPD

- NOTE :
- A SEPTIC FEE IN AMOUNT OF \$396 PER LOT SERVICED BY THE COMMON SEPTIC SYSTEM SHALL BE PAID TO THE HOWARD COUNTY ENVIRONMENTAL HEALTH DEPARTMENT AT THE TIME OF THE SEPTIC CONSTRUCTION PERMIT ISSUANCE.
 - A SIGNED "DECLARATION OF COVENANTS" WILL BE REQUIRED ON SHARED SEPTIC LOTS.
 - THE BUILDER SHALL INSTALL BACK FLOW PREVENTER AND RELIEF VENT ON THE SEWER SERVICE AT THE HOUSE, AT THE TIME OF THE HOUSE CONNECTION OR AS REQUIRED BY THE PLUMBING INSPECTOR.
 - SEPTIC TANKS SHALL BE VACUUM TESTED AND WATER TESTED ON-SITE BY THE MANUFACTURER. SEPTIC TANK SHOP DRAWINGS FROM THE MANUFACTURER SHALL BE PERMITTED TO THE HOWARD COUNTY ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO ANY INSTALLATION OF THE SEPTIC TANKS.
 - THE CONTRACTOR SHALL NOTIFY HOWARD COUNTY HEALTH DEPARTMENT AT 410-313-2540 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY PRESSURE TEST OF PRESSURE SEWERS, AND ANY SEPTIC TANKS VACUUM OR WATER TESTING IS PERFORMED.
 - OBSERVATION WELL TO BE INSTALLED AFTER TRENCH INSTALLATION IS COMPLETED.
 - THE HOWARD COUNTY HEALTH DEPARTMENT SHALL AS-BUILT THE SEPTIC TRENCH PORTION OF THE COMMON SEPTIC SYSTEM. THE COLLECTION PORTION OF THIS SYSTEM SHALL BE AS-BUILT BY OTHERS AS SPECIFIED BY THE DEVELOPER AGREEMENT.

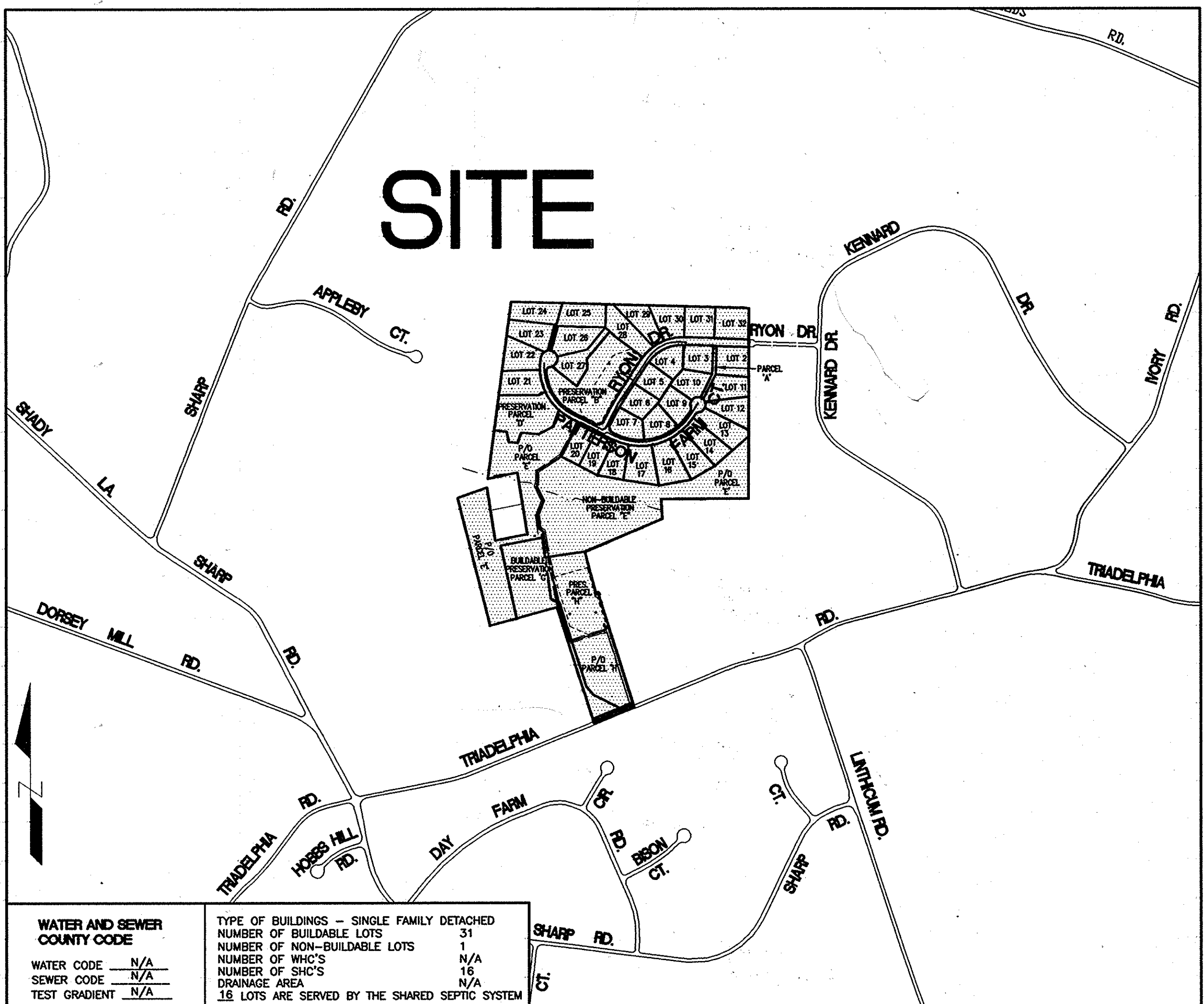
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 11-16, 23-26, AND 28-32; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 3-10, 17-22, 27, AND 32.
 HOWARD COUNTY HEALTH DEPARTMENT
 Robert J. Weber
 HOWARD COUNTY HEALTH OFFICER
 6/21/05
 DATE

HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 John M. ...
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE
 6/15/05
 DATE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 John R. ...
 HOWARD SOIL CONSERVATION DISTRICT
 6/15/05
 DATE

OWNERS:
 PRESCRIPTION ACRES, LLC.
 c/o DONALD H. PATTERSON
 PO BOX 1
 GLENELG, MD. 21737

DEVELOPER:
 TRIADELPHIA FARM, LLC.
 6258 CARDINAL LANE
 COLUMBIA, MD. 21044



WATER AND SEWER COUNTY CODE		TYPE OF BUILDINGS - SINGLE FAMILY DETACHED	
WATER CODE	N/A	NUMBER OF BUILDABLE LOTS	31
SEWER CODE	N/A	NUMBER OF NON-BUILDABLE LOTS	1
TEST GRADIENT	N/A	NUMBER OF WHC'S	N/A
		NUMBER OF SHC'S	15
		DRAINAGE AREA	N/A
		16 LOTS ARE SERVED BY THE SHARED SEPTIC SYSTEM	

LOCATION MAP
 SCALE : 1" = 600'

HOPKINS CHOICE

LOTS 2 THRU 32 & PRESERVATION PARCELS A THRU H

SHARED SEWAGE DISPOSAL AND FORCE MAIN

CONTRACT # 50-4254-D

GENERAL NOTES :

- PART I
- Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. 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 [North American Datum of 1983 (NAD '83)].
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or 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 bracing of additional poles or damages shall be deducted from monies 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 Detail 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 \odot 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 (5) working days before starting work shown on these plans:
 AT&T 1-800-252-1133
 BGE Contractor Services 410-650-4620
 BGE Under Ground Damage Control 410-291-4507
 Bureau of Utilities 410-313-4900
 Colonial Pipeline Company 410-795-1390
 Miss Utility 1-800-257-7777
 State Highway Administration 410-531-5533
 Verizon 1-800-743-0033 / 410-224-9210
 - 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.
 - 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 410-313-7450 at least five (5) working days before any open cutting or boring/jacking of any County road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with the DPW requirements per Section 18.114(a) of the Howard County Code.
 - Place regulation "men working" and warning signs as required to comply with Maryland state highway administration manual of traffic control for highway maintenance operations.
- PART II
- A septic fee in the amount of \$396 per lot serviced by the common septic system shall be paid to the Howard County Environmental Health Department at the time of the septic construction permit issuance.
 - The builder shall install back flow preventer and relief vent on the sewer service at the house, at the time of the house construction or as required by the plumbing inspector.
 - The contractor shall notify howard county health department at (410) 313-2540 at least five (5) working days before any pressure test of pressure sewers, and any septic tanks vacuum or water testing is performed.
 - Installation of grinder pumps and appurtenances, and the 4" pvc sewer house connections (shc) are to be installed by the developer. The developer shall be required to prepurchase the specified grinder pumps and provide storage at the manufacturer's facility until such time as they are installed and placed into service. no pumps shall be set until the house is ready for u & o, and any debris which has entered the tank prior to the pump installation shall be pumped out at the developer's expense. The developer will retain responsibility for installation of the grinder pumps and shall contract with the manufacturer to provide start up services just prior to U & O. Gravity connection to the grinder pumps will not be allowed until all work inside the homes is complete and the homes are ready for occupancy.
- PART III
- All sewer mains shall be dip and p.v.c. unless otherwise noted.
 - The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
 - All manholes shall be 4'-0" inside diameter unless otherwise noted.
 - Force mains shall be HDPE DRI1
 - Manholes shown with 12" and 18" walls are for brick manholes only.
 - Manholes designated w.t. in plan and profile shall have watertight frame and covers, standard detail 05.52 where watertight manhole frame and cover is used, set top of frame 1'-8" above finished grade unless otherwise noted on the drawings.
 - House(s) with the symbol "c.n.s." indicates that cellar cannot be serviced.

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS	
STATE HIGHWAY ADMINISTRATION	531-5533
BALTIMORE GAS & ELECTRIC CO.	850-4620
CONTRACTOR SERVICES	
BALTIMORE GAS & ELECTRIC CO.	
UNDERGROUND DAMAGE CONTROL	787-9068
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO	795-1390
HOWARD COUNTY DEPT. OF PUBLIC WORKS	
BUREAU OF UTILITIES	313-4900
HO. CO. ENVIRONMENTAL HEALTH DEPT	410-313-2640

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. ...
 6-3-05
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 ...
 6/21/05
 DATE

American Land Development and Engineering, Inc.
 10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
 TEL. (410) 465-7903 FAX. (410) 465-3845



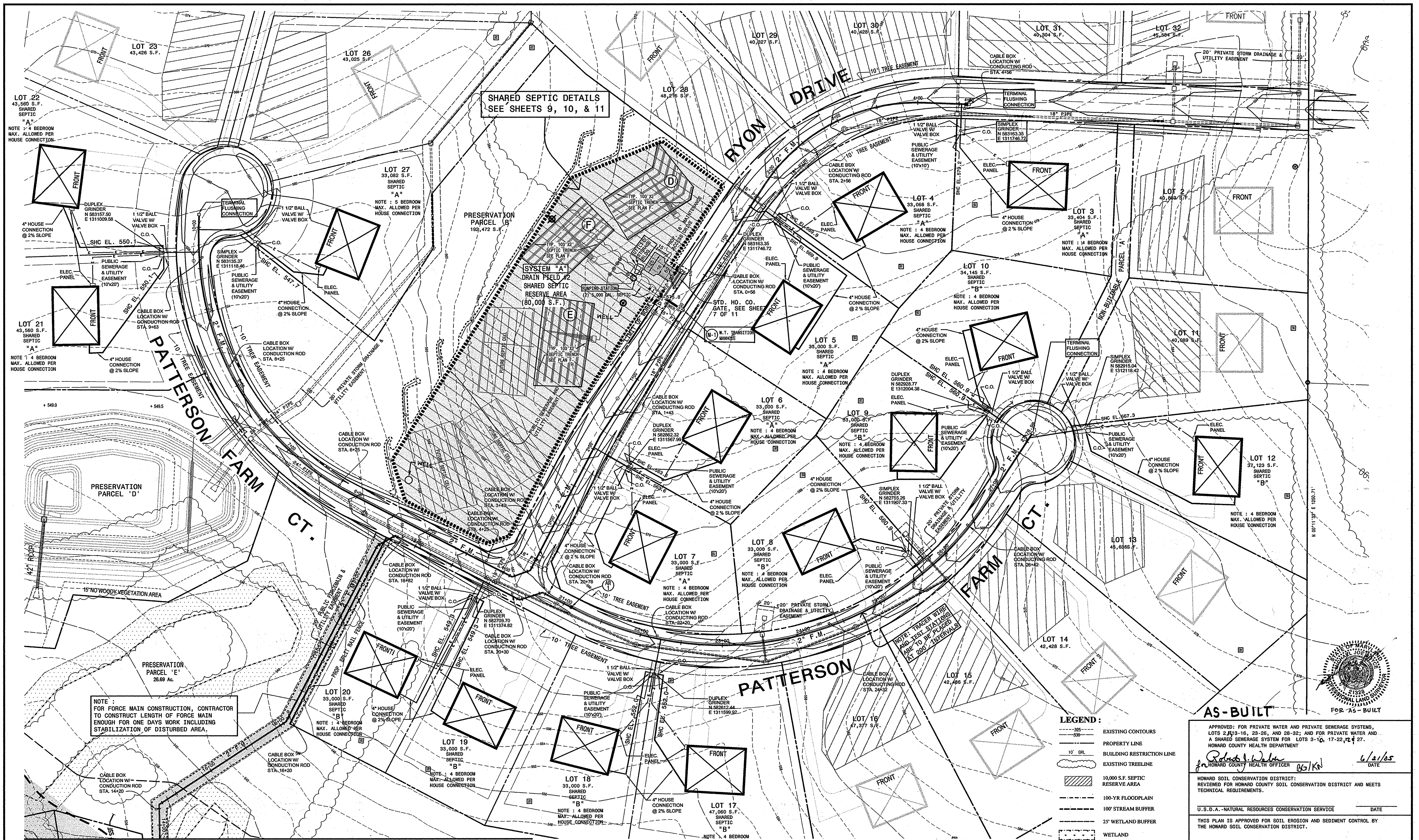
DES. : DW/AG	
DRN. : AVG	
CHK. : DW	
DATE: 4-21-05	
BY NO.	REVISIONS
DATE	600' SCALE MAP No. 21
	BLOCK No. 12

TITLE SHEET

HOPKINS CHOICE
 LOTS 2 THRU 32 & PRESERVATION PARCELS A THRU H
 SHARED SEWAGE DISPOSAL AND FORCE MAIN
 CONTRACT No. : 50-4254-D
 4th ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE : AS SHOWN
 SHEET No. 1 OF 12

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SHARED SEPTIC DETAILS
SEE SHEETS 9, 10, & 11

SYSTEM "A"
DRAIN FIELD #2
SHARED SEPTIC
RESERVE AREA
(80,000 S.F.)

PLAN
SCALE: 1" = 50'

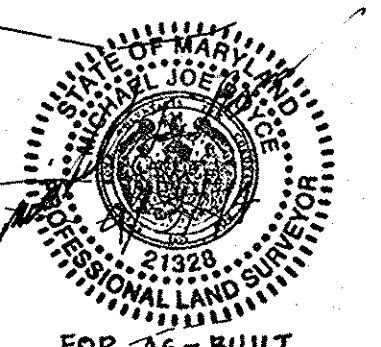
NOTE:
FOR 20 SCALE REDLINE OF SEPTIC
SYSTEM "A" SEE SHEET 11 OF 12.

NOTE:
FOR FORCE MAIN CONSTRUCTION, CONTRACTOR
TO CONSTRUCT LENGTH OF FORCE MAIN
ENOUGH FOR ONE DAYS WORK INCLUDING
STABILIZATION OF DISTURBED AREA.

- LEGEND:**
- EXISTING CONTOURS
 - PROPERTY LINE
 - BUILDING RESTRICTION LINE
 - EXISTING TREELINE
 - ▨ 10,000 S.F. SEPTIC RESERVE AREA
 - 100-YR FLOODPLAIN
 - 100' STREAM BUFFER
 - 25' WETLAND BUFFER
 - WETLAND
 - LIMIT OF DISTURBANCE
 - SILT FENCE
 - SUPER SILT FENCE

AS-BUILT

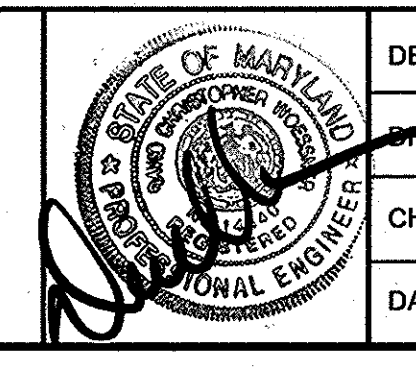
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
LOTS 2, 19, 16, 23-25, AND 28-32; AND FOR PRIVATE WATER AND
A SHARED SEWERAGE SYSTEM FOR LOTS 3-10, 17-22, 27 & 27.
HOWARD COUNTY HEALTH DEPARTMENT
Robert J. Wilson 6/2/05
HOWARD COUNTY HEALTH OFFICER
HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS
TECHNICAL REQUIREMENTS.
U.S.D.A.-NATURAL RESOURCES CONSERVATION SERVICE DATE
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY
THE HOWARD COUNTY HEALTH DEPARTMENT.
HOWARD SOIL CONSERVATION DISTRICT DATE
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE
IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE
HOWARD COUNTY STANDARDS AND SPECIFICATIONS AND AS PER
ROAD CONSTRUCTION PLANS PER F-05-29.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Rita B... 6-3-05
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
... 6/2/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION

PREPARED BY:
**American Land Development
and Engineering, Inc.**
10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
TEL. (410) 465-7503 FAX. (410) 465-3362



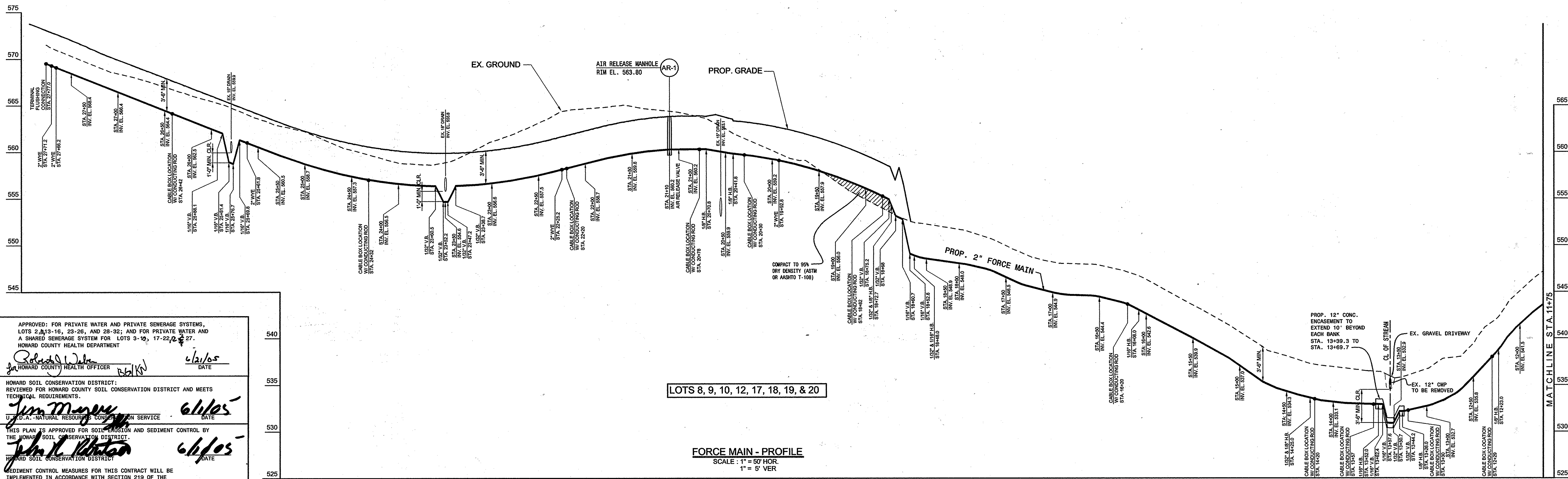
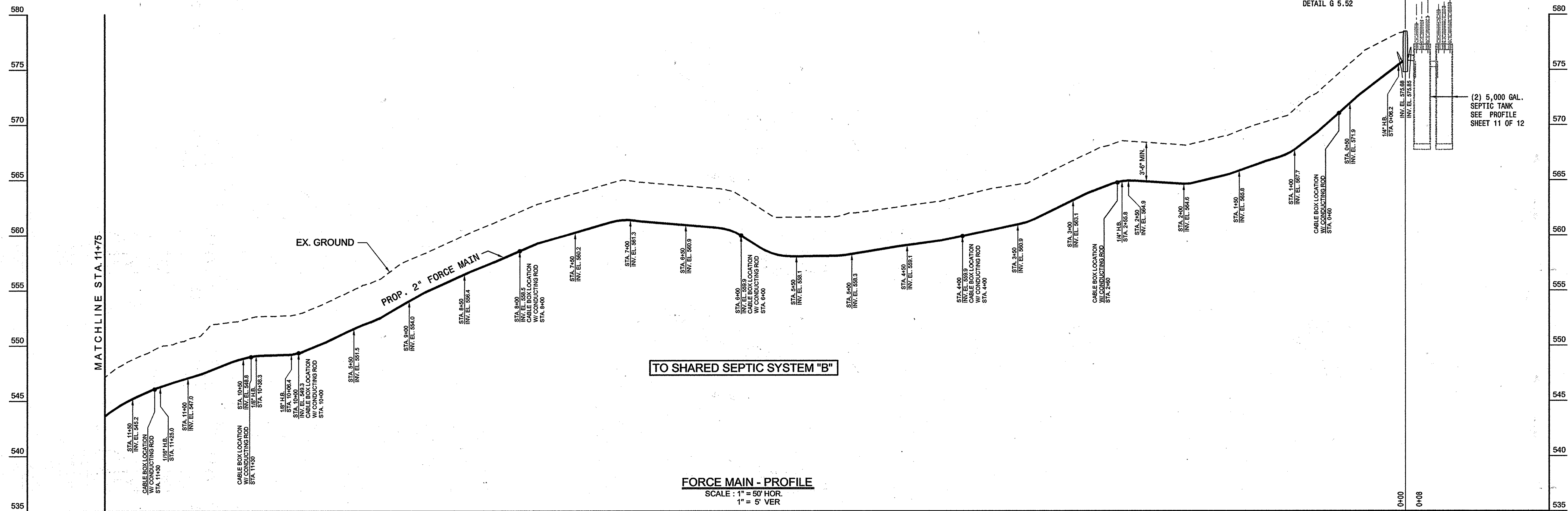
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DRN: AVG			
CHK: DW			
DATE: 4-21-05			

FORCE MAIN PLAN
600' SCALE MAP No. 21 BLOCK No. 12

HOPKINS CHOICE
LOTS 2 THRU 32 & PRESERVATION PARCELS A THRU H
SHARED ON-SITE SEWAGE DISPOSAL AND FORCE MAIN
CONTRACT No. : 50-4254-D
4th ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE:
1" = 50'
SHEET No.
2 OF 12

1: SUBSTITUTION PROJECTS/WORKSHEET CHOICE-FINAL FORCE MAIN FOREMATH_L2.dwg, FOREMATH 2, 4/21/2005 2:08:03 PM, g02



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 13-16, 23-26, AND 28-32; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 3-10, 17-22, 27.

HOWARD COUNTY HEALTH DEPARTMENT

Robert J. White 6/2/05
 HOWARD COUNTY HEALTH OFFICER DATE

Jim Mays 6/2/05
 U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE

John A. Whelan 6/2/05
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS PER GP-05-50

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert J. White 6-3-05
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Michael J. ... 6/2/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PREPARED BY:
American Land Development and Engineering, Inc.
 10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
 TEL. (410) 465-7903 FAX. (410) 465-3845



DES: DWIAG	
DRN: AVG	
CHK: DW	
DATE: 4-21-05	
BY	NO.
REVISIONS	
DATE	

FORCE MAIN PROFILE

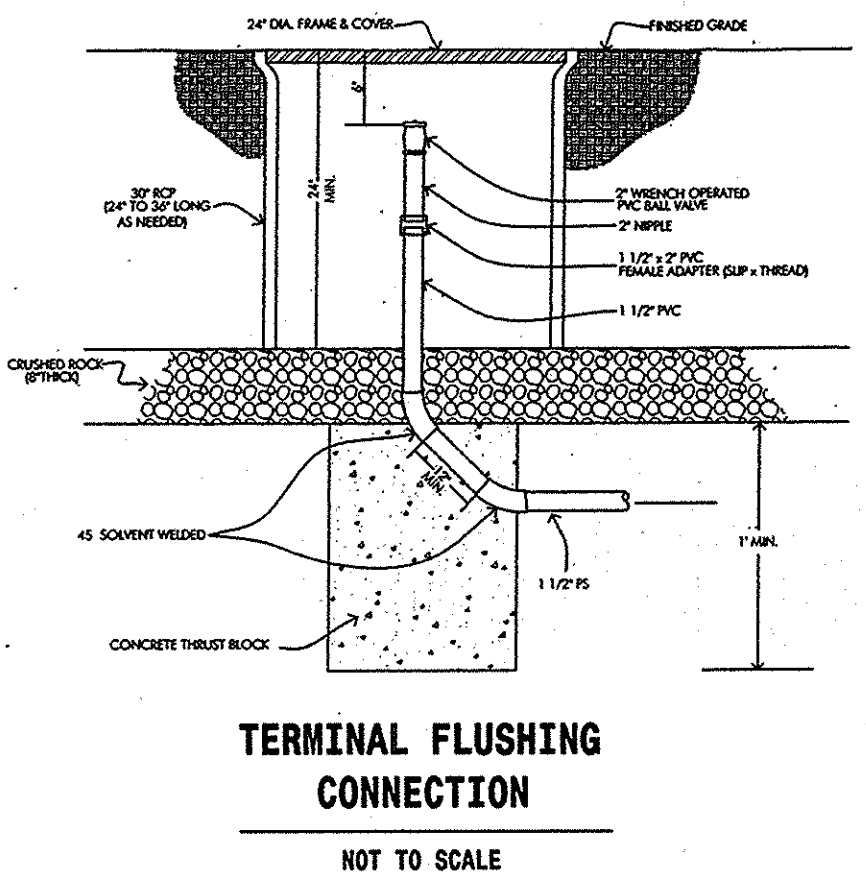
60' SCALE MAP No. 21 BLOCK No. 12

HOPKINS CHOICE
 LOTS 2 THRU 32 & PRESERVATION PARCELS A THRU H
 SHARED SEWAGE DISPOSAL AND FORCE MAIN

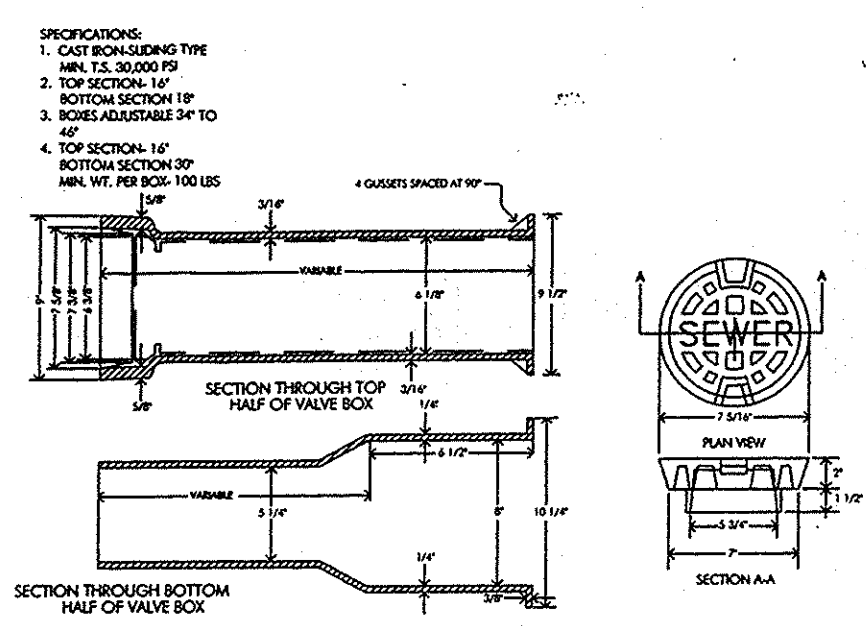
CONTRACT No. : 50-4254-D
 4th ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE : 1" = 50'

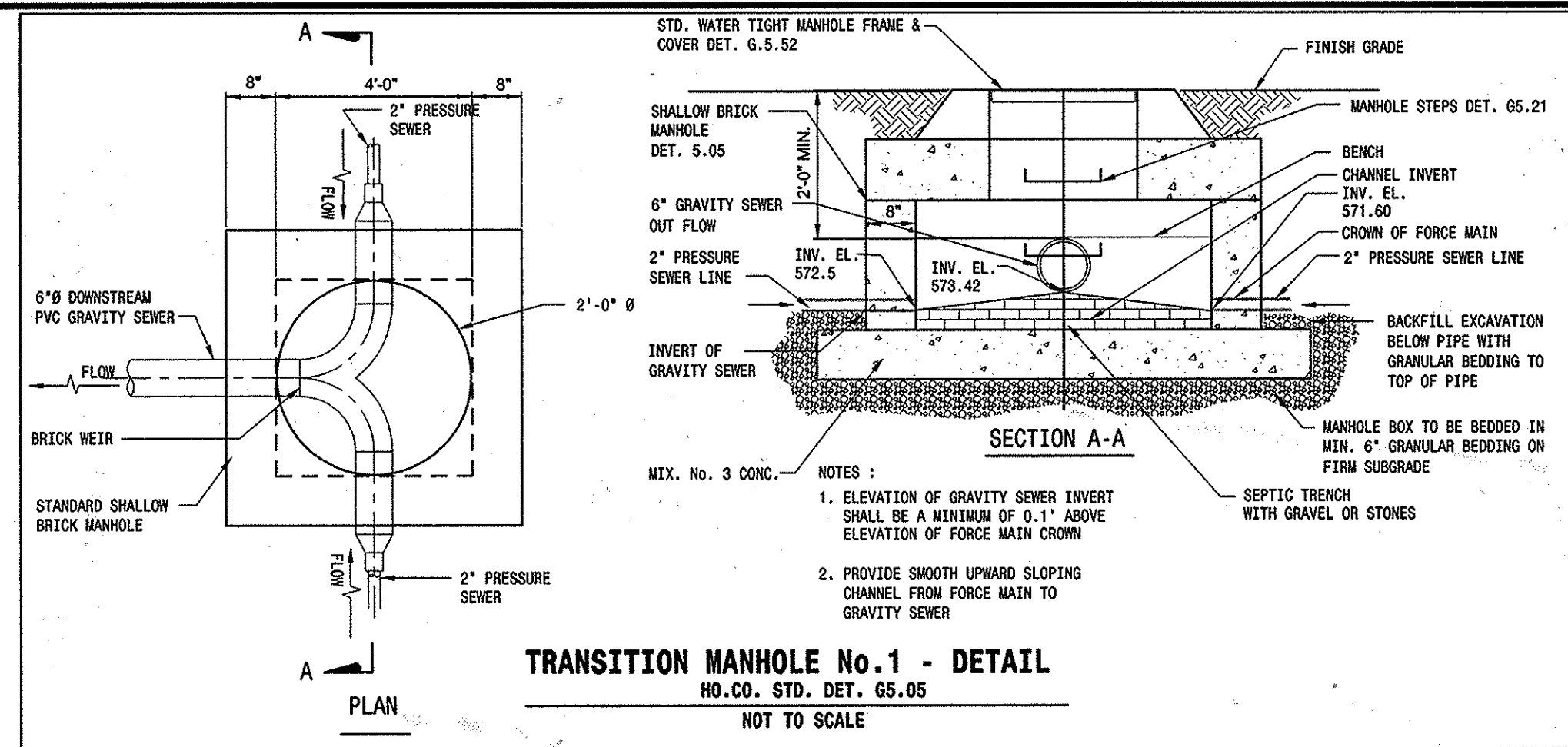
SHEET No. 4 OF 12



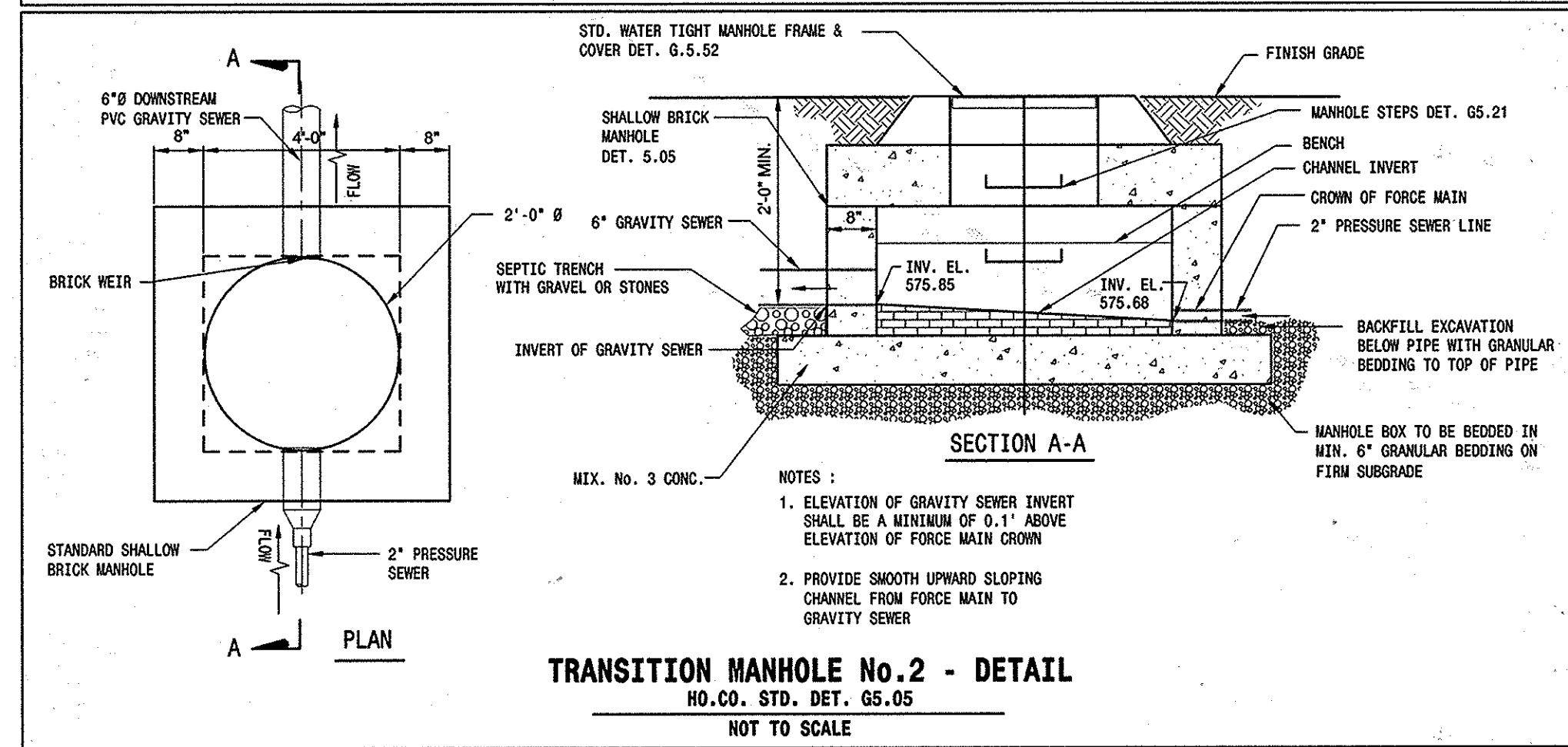
TERMINAL FLUSHING CONNECTION
NOT TO SCALE



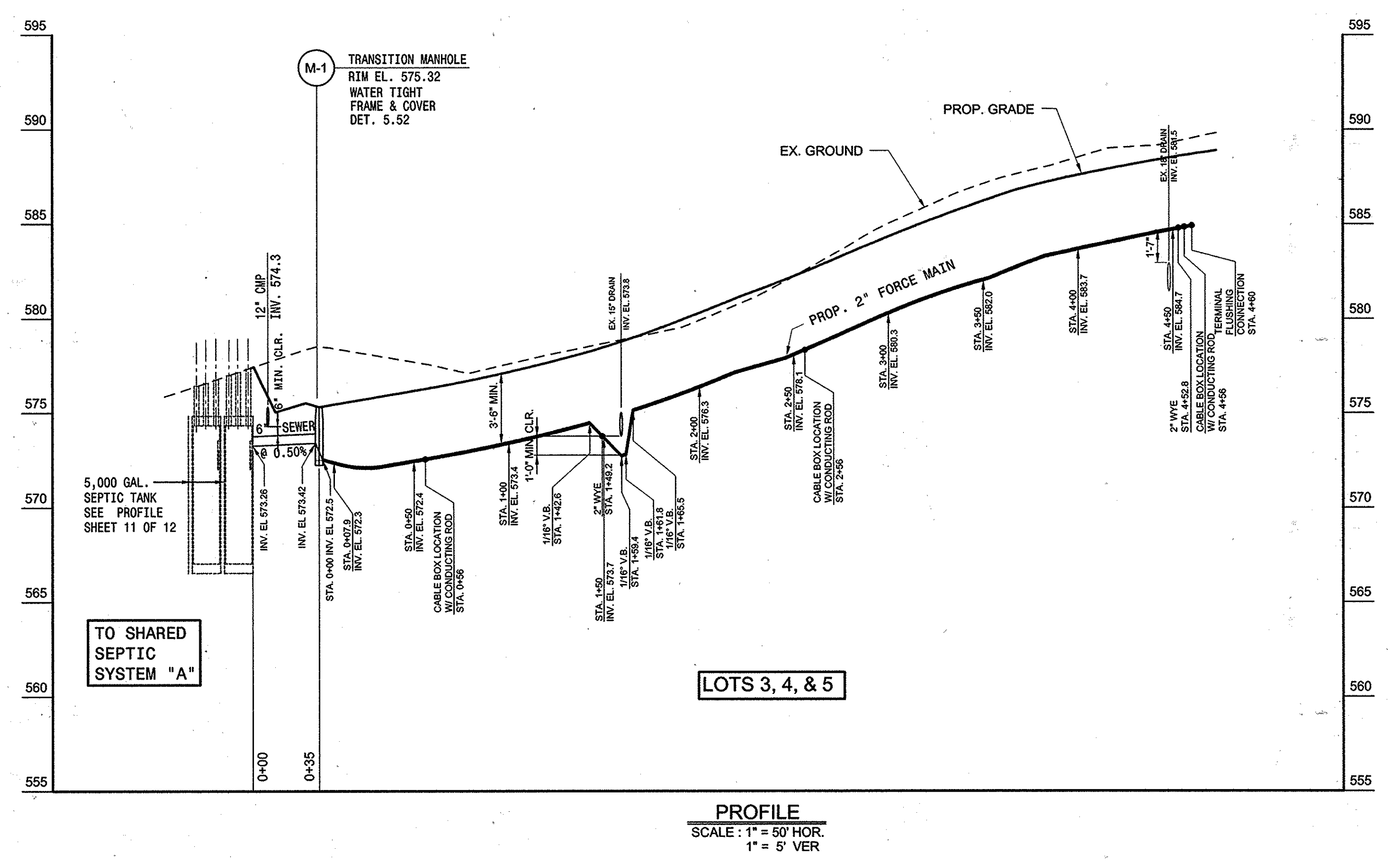
ADJUSTABLE VALVE BOX ROUND HEAD SLIDING TYPE
NOT TO SCALE



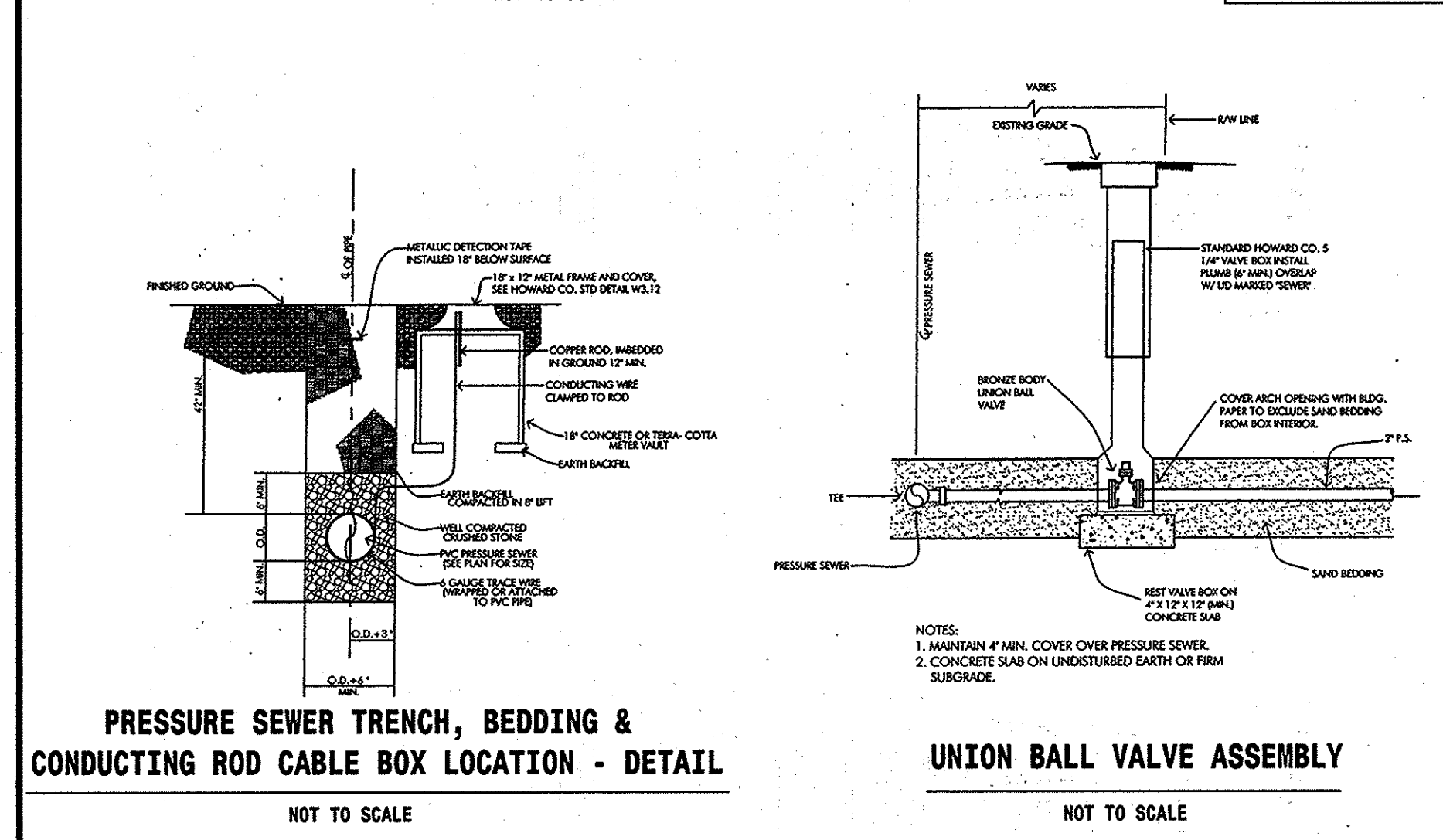
TRANSITION MANHOLE No. 1 - DETAIL
HO.CO. STD. DET. GS.05
NOT TO SCALE



TRANSITION MANHOLE No. 2 - DETAIL
HO.CO. STD. DET. GS.05
NOT TO SCALE

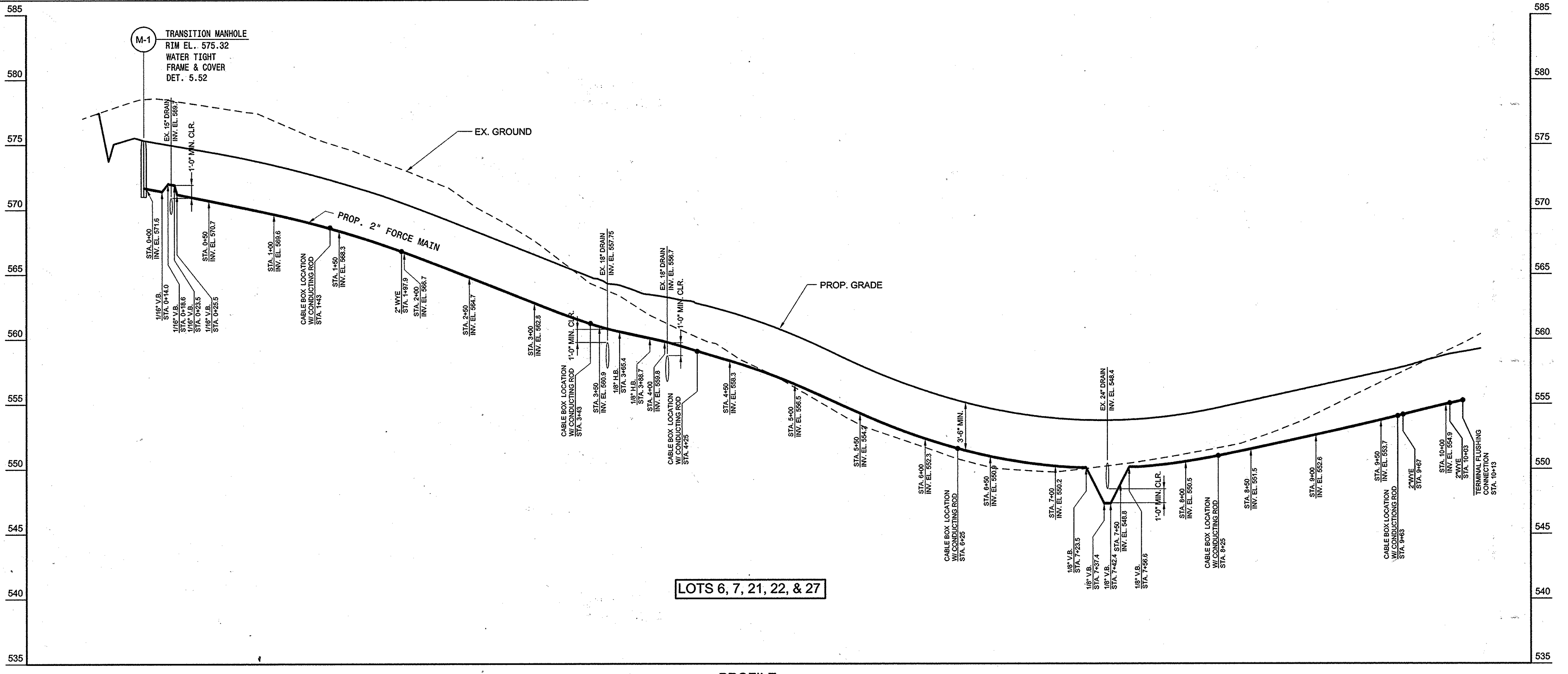


PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VER.



PRESSURE SEWER TRENCH, BEDDING & CONDUCTING ROD CABLE BOX LOCATION - DETAIL
NOT TO SCALE

UNION BALL VALVE ASSEMBLY
NOT TO SCALE



PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VER.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 11, 13, 15, 23, 25, AND 28-32; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 3-15, 17-22, 27, 27.

HOWARD COUNTY HEALTH DEPARTMENT

Robert J. Wilson 6/21/05
HOWARD COUNTY HEALTH OFFICER DATE

HOWARD SOIL CONSERVATION DISTRICT: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Mays 6/1/05
U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Jim Mays 6/1/05
HOWARD SOIL CONSERVATION DISTRICT DATE

EROSION AND SEDIMENT CONTROL MEASURES AND CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS PER GP.05-50

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

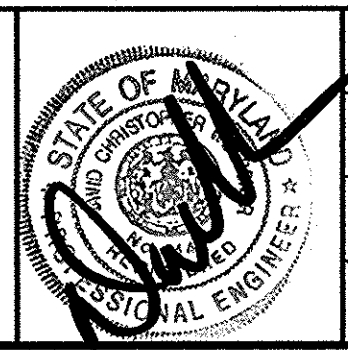
R. J. Wilson 6-3-05
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John P. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PREPARED BY:

American Land Development and Engineering, Inc.
10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
TEL. (410) 465-7503 FAX. (410) 465-3845



DES: DWIAG	BY	NO.	REVISIONS	DATE
DRN: AVG				
CHK: DW				
DATE: 4-21-05				

FORCE MAIN PROFILE AND DETAILS

600' SCALE MAP No. 21 BLOCK No. 12

HOPKINS CHOICE
LOTS 2 THRU 32 & PRESERVATION PARCELS A THRU H
SHARED SEWAGE DISPOSAL AND FORCE MAIN

CONTRACT No. : 50-4254-D
4th ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE: 1" = 50'

SHEET No. 5 OF 12

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION Using vegetation as cover for barren soil to protect it from forces that cause erosion. PURPOSE Vegetative stabilization specifications are used to prevent the establishment of vegetation on exposed soil...

E. WCM material shall contain no elements or compounds at concentration levels that will be phytotoxic. F. WCM must conform to the following physical requirements: fiber length to approximately 10 mm...

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 16-18, 22-26, AND 28-32; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 5-10, 17-22, 24 & 27.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

1. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.

1. Excavate and stabilize all temporary embankments, side ditches, or berms that will be used to convey runoff from the excavation.

1. Construction activities including the installation of erosion and sediment control measures should not begin until all necessary easement and right-of-way have been acquired.

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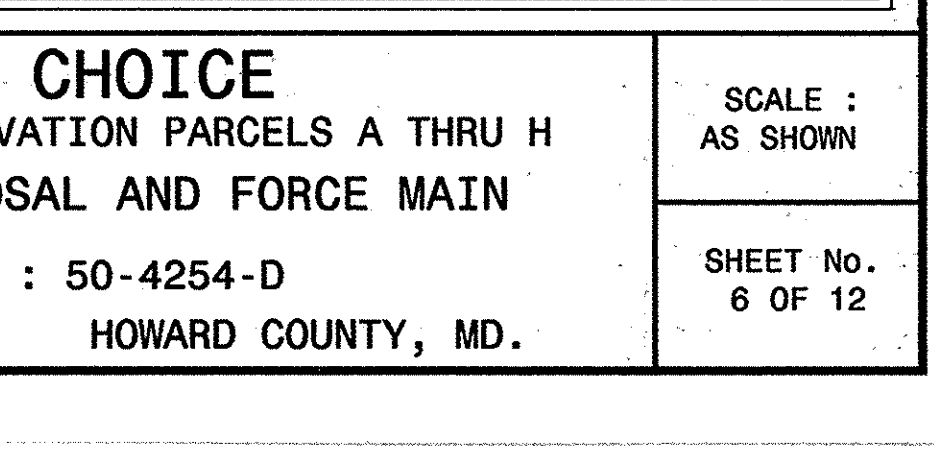
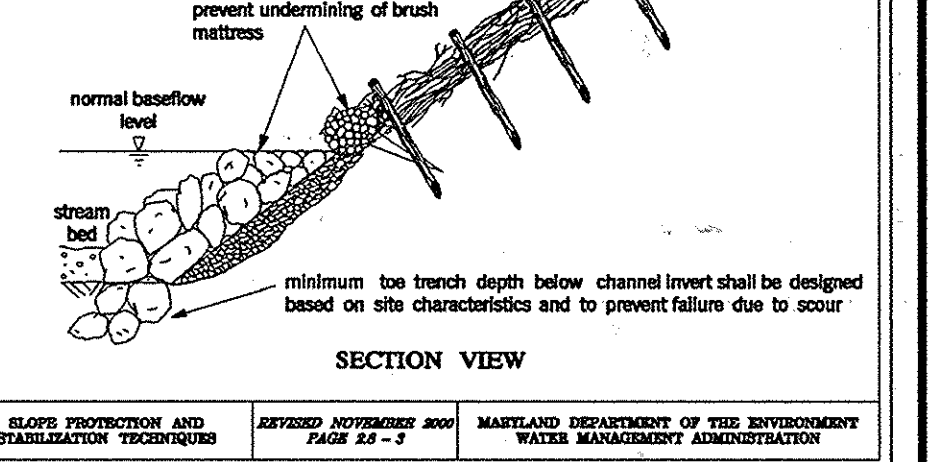
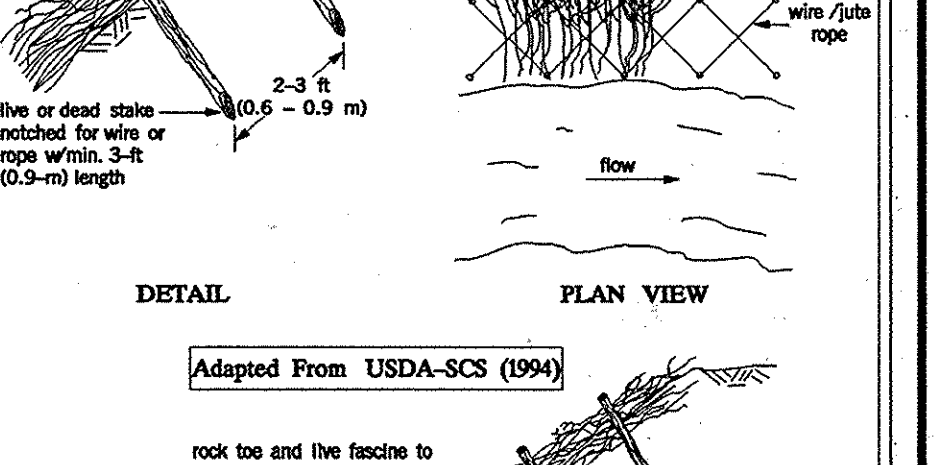
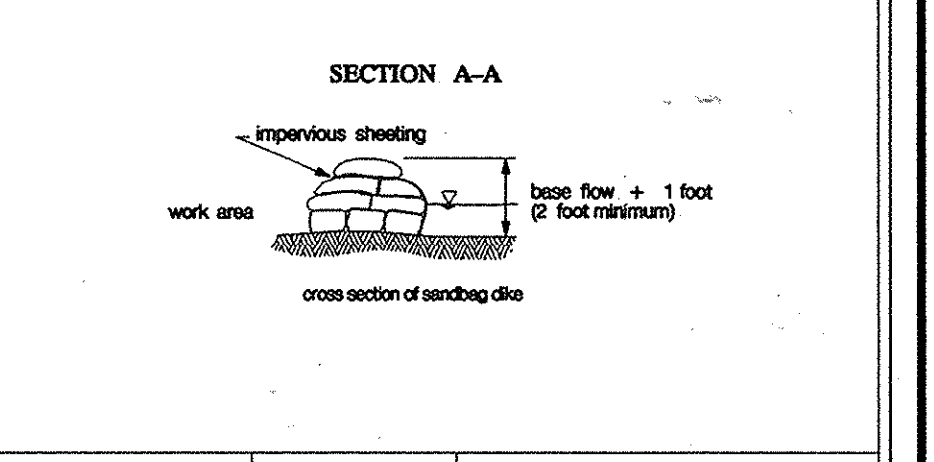
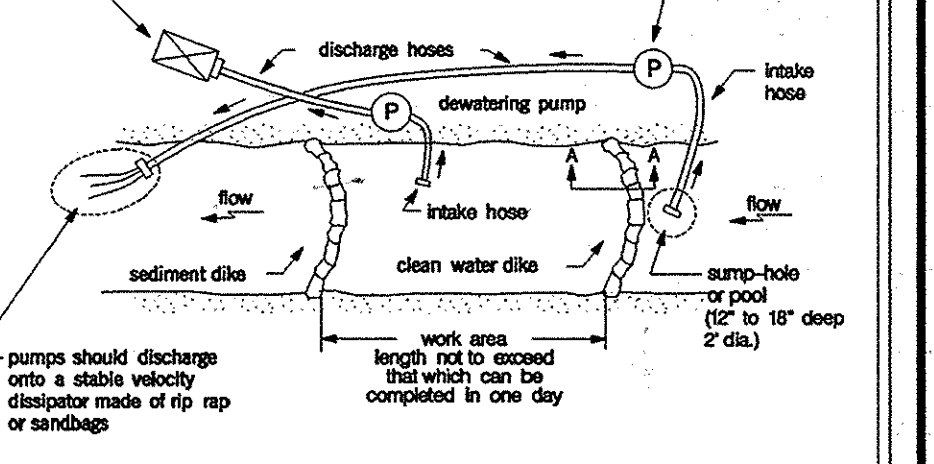
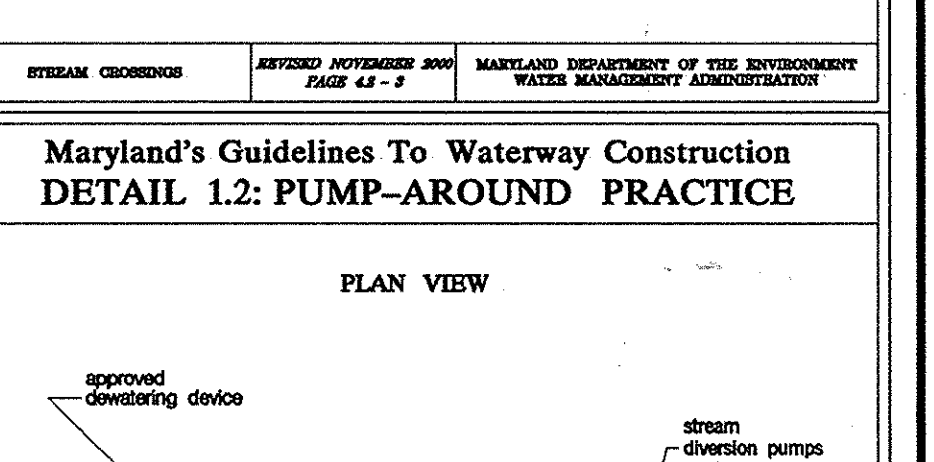
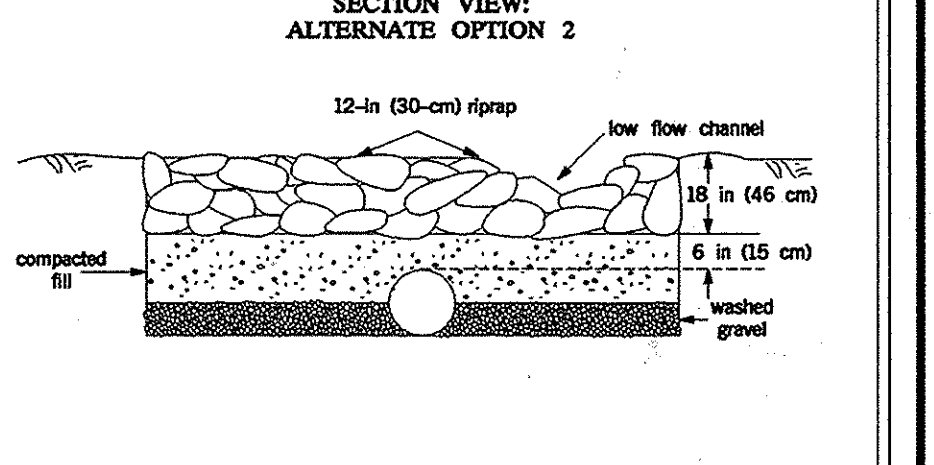
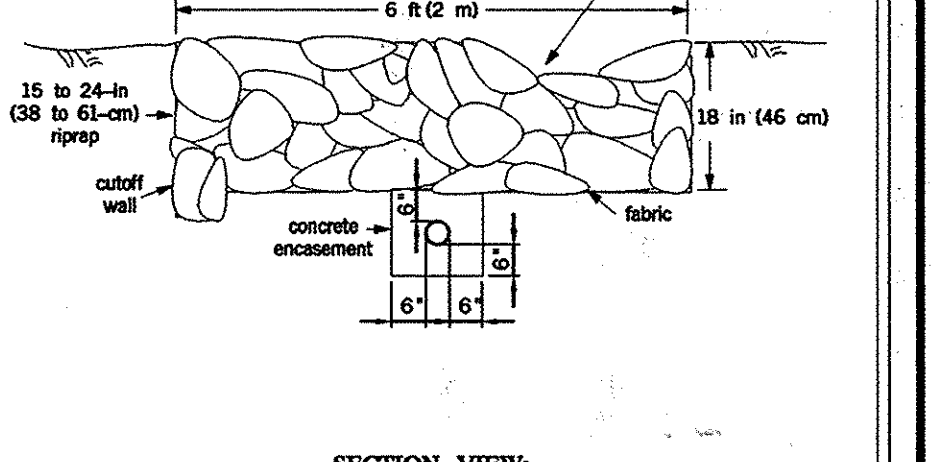
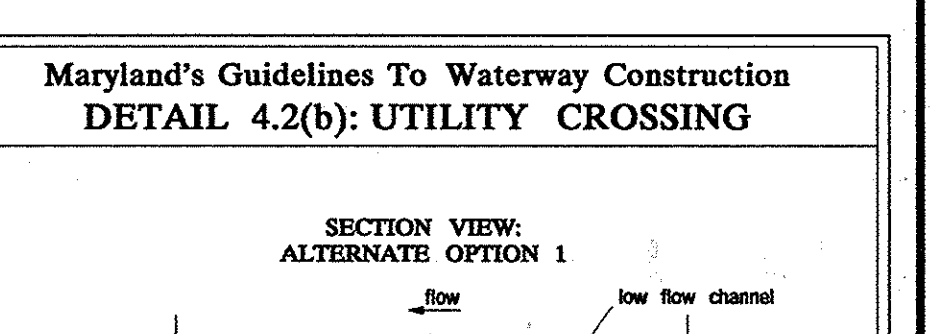
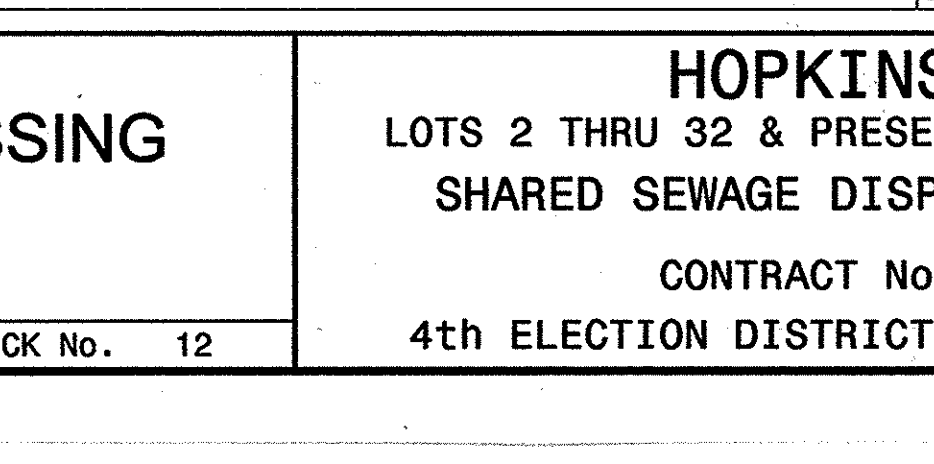
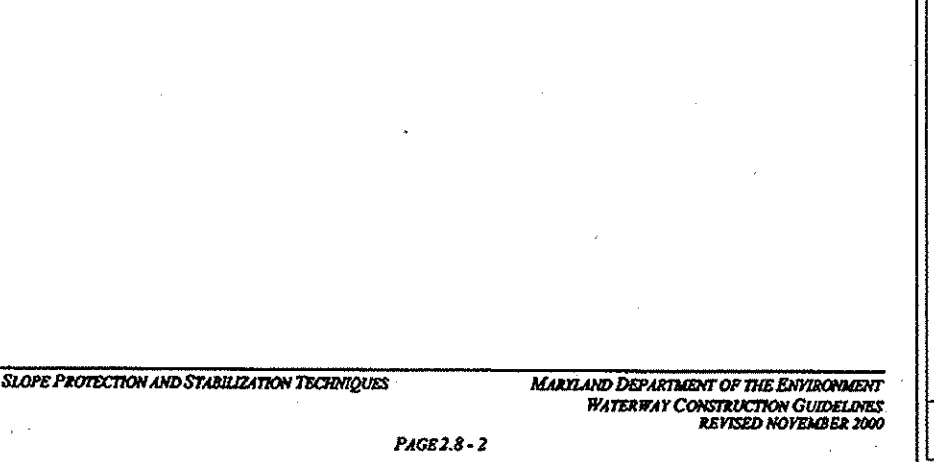
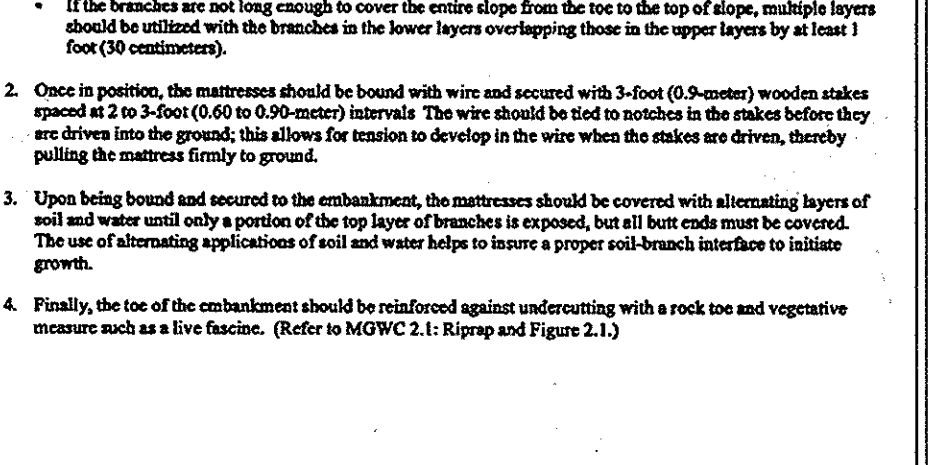
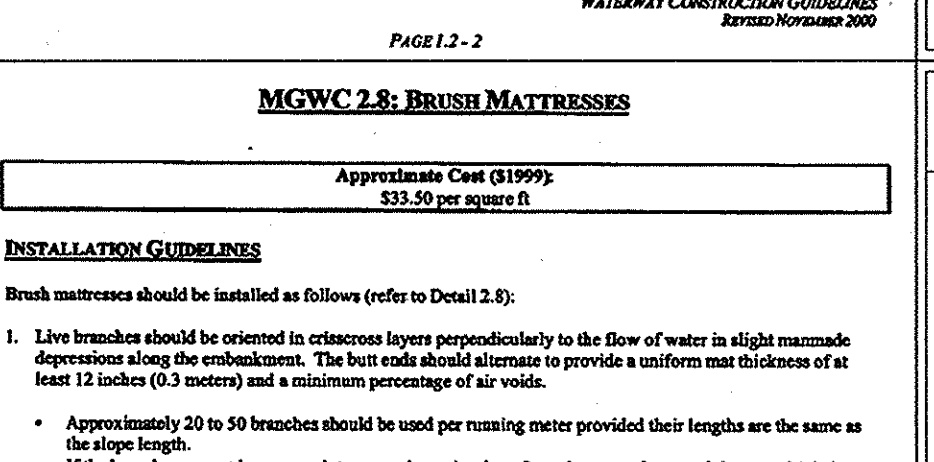
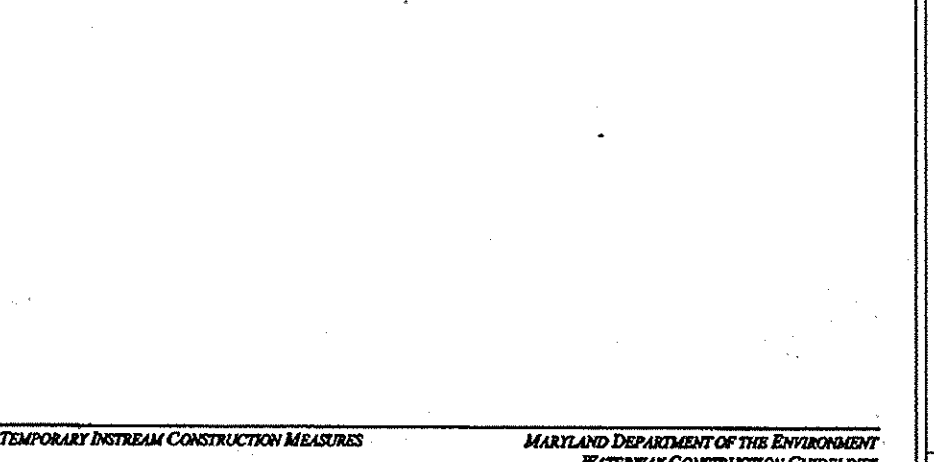
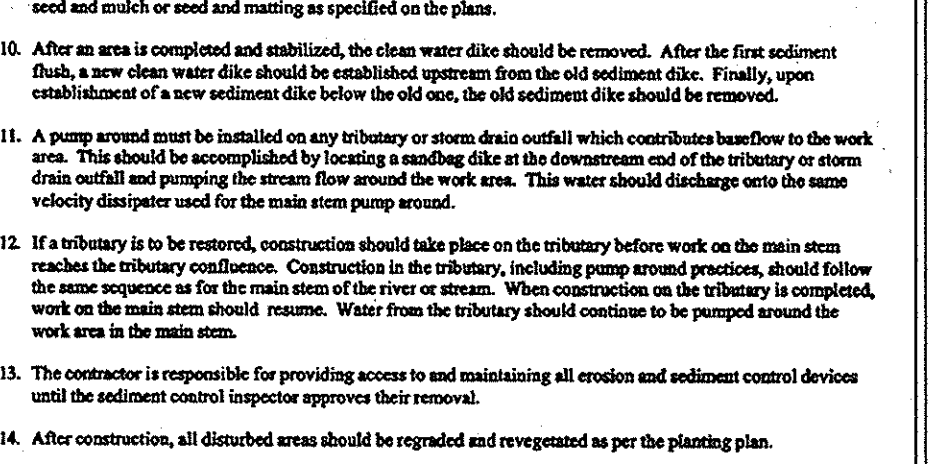
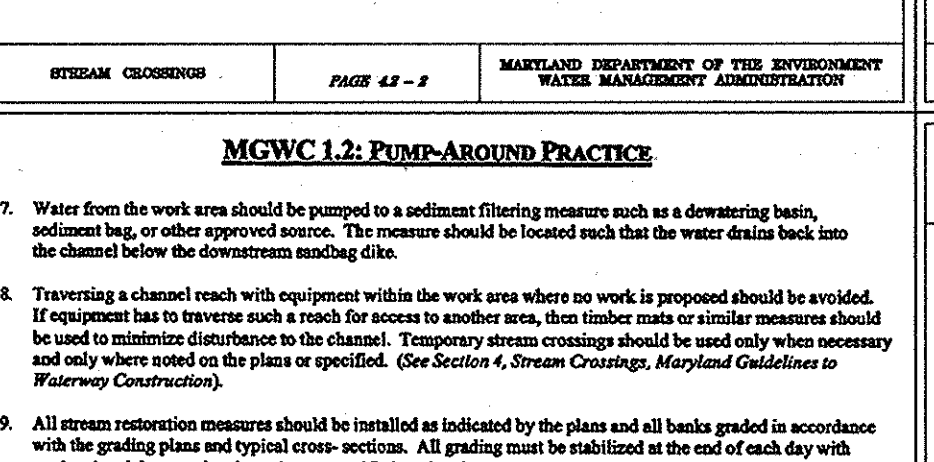
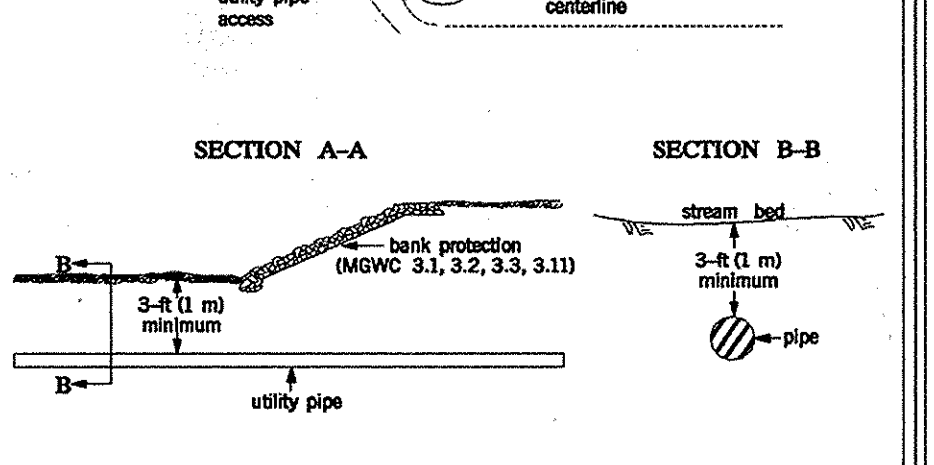
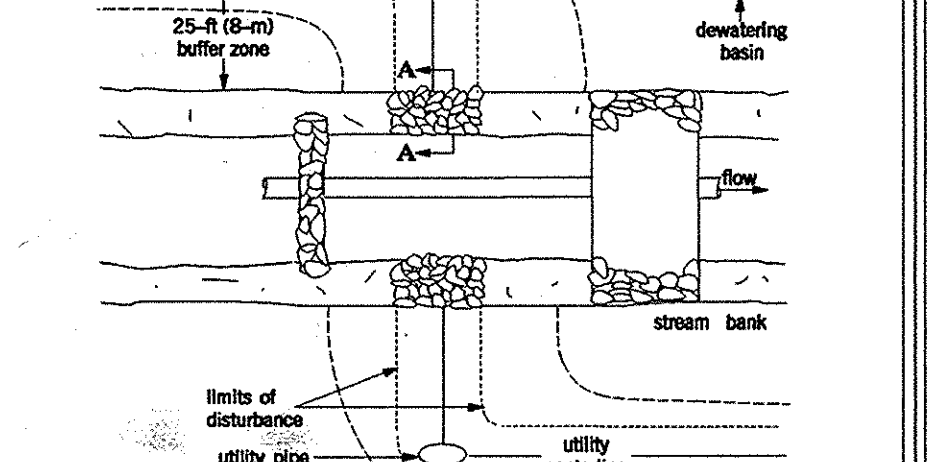
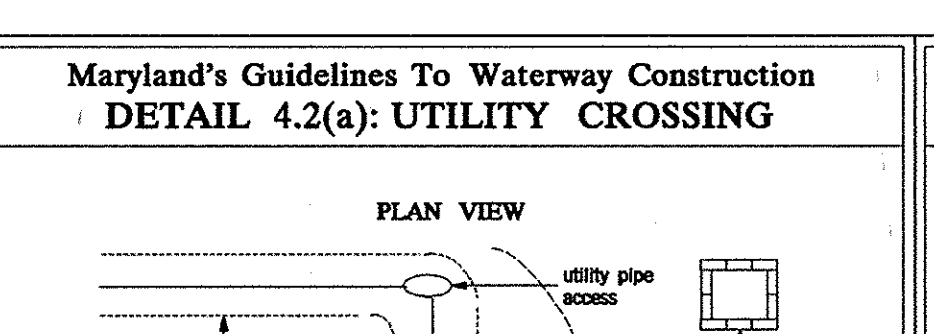
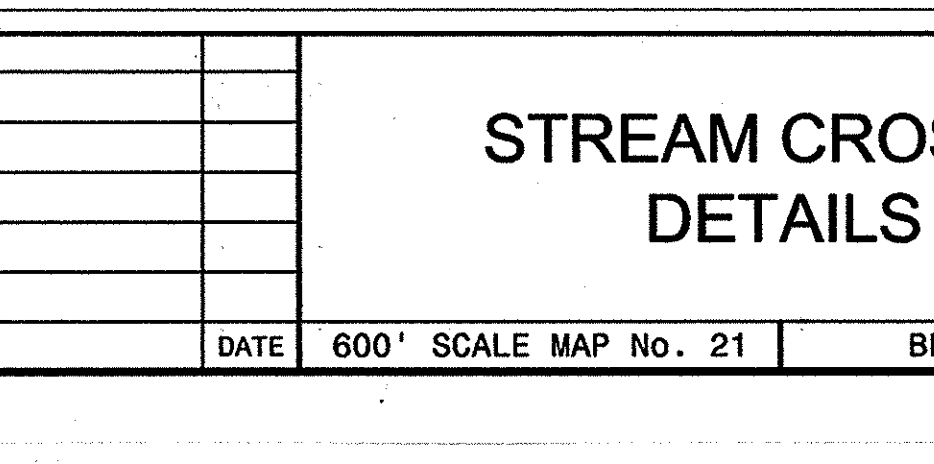
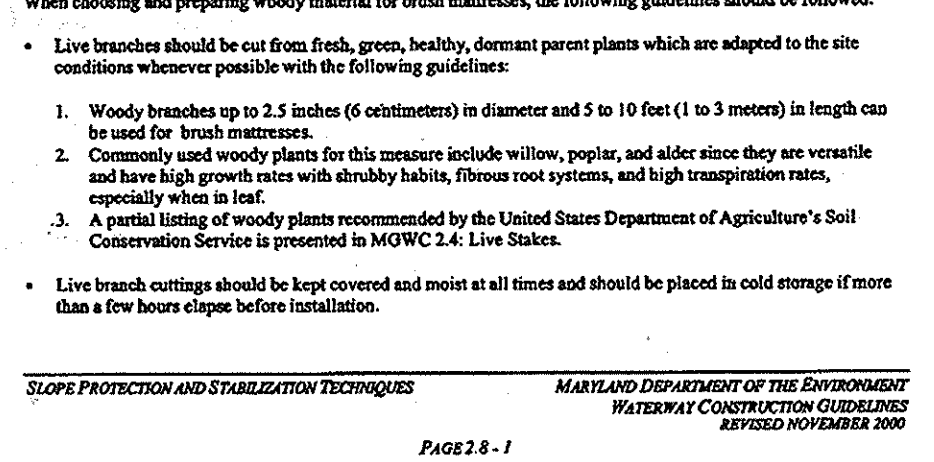
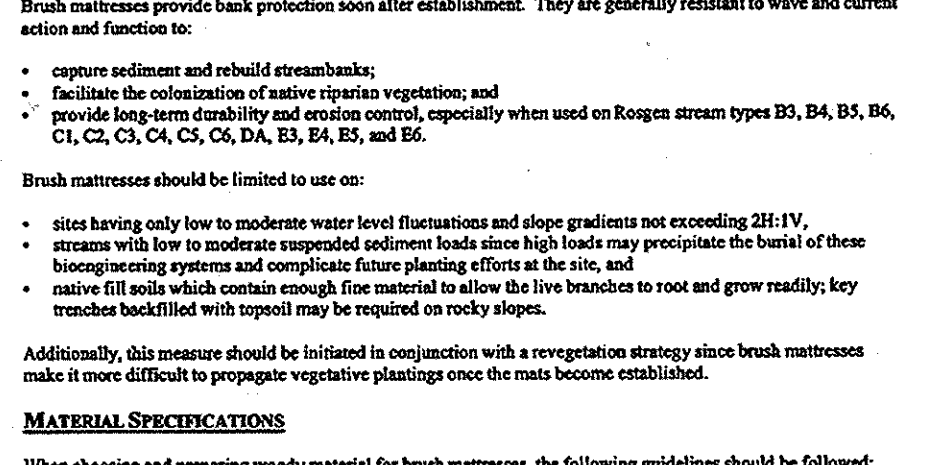
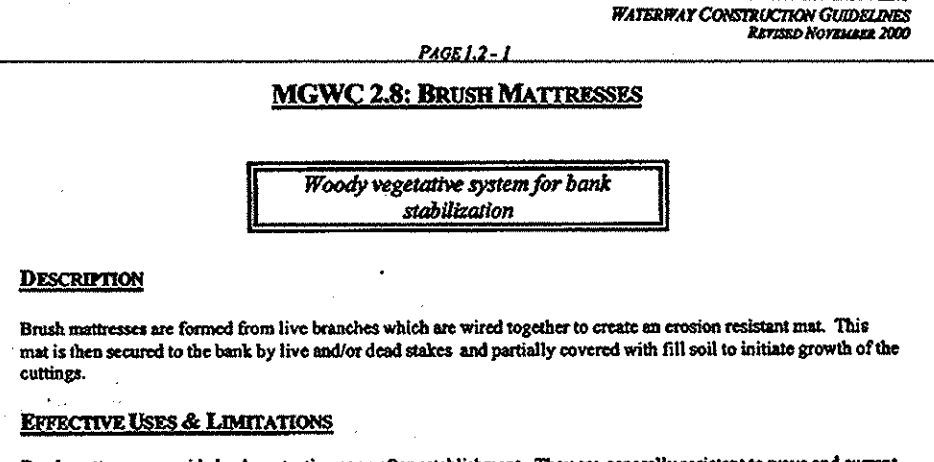
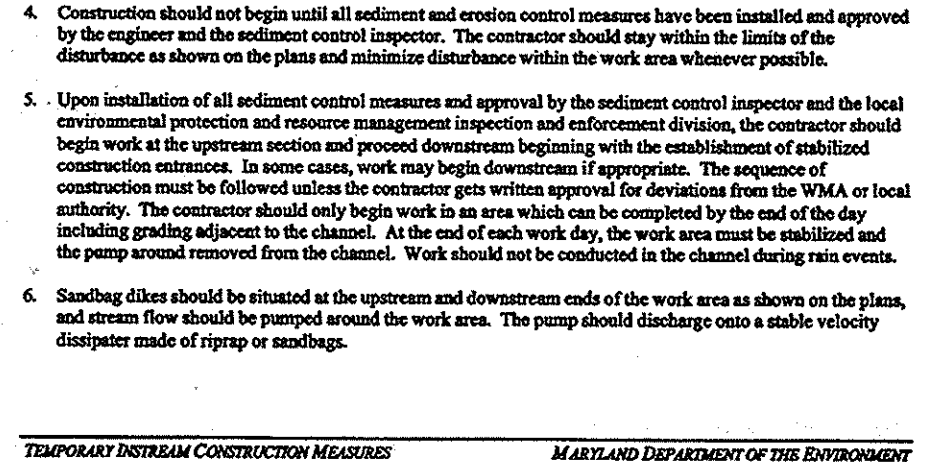
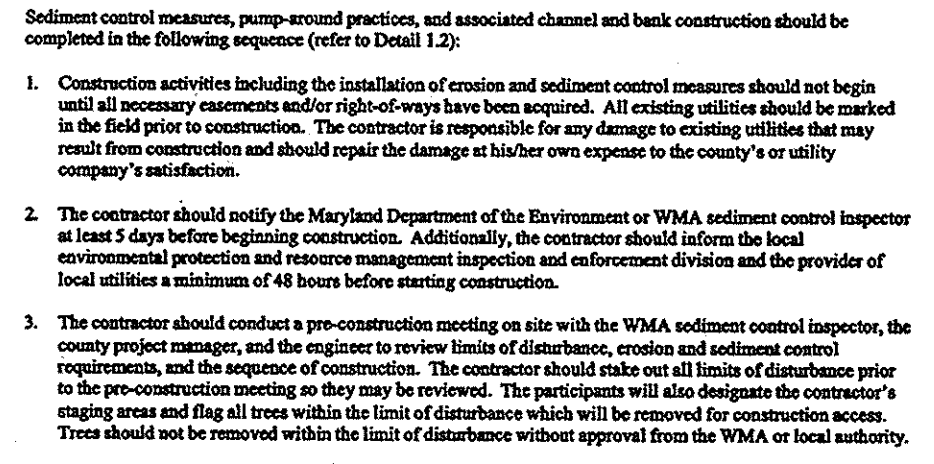
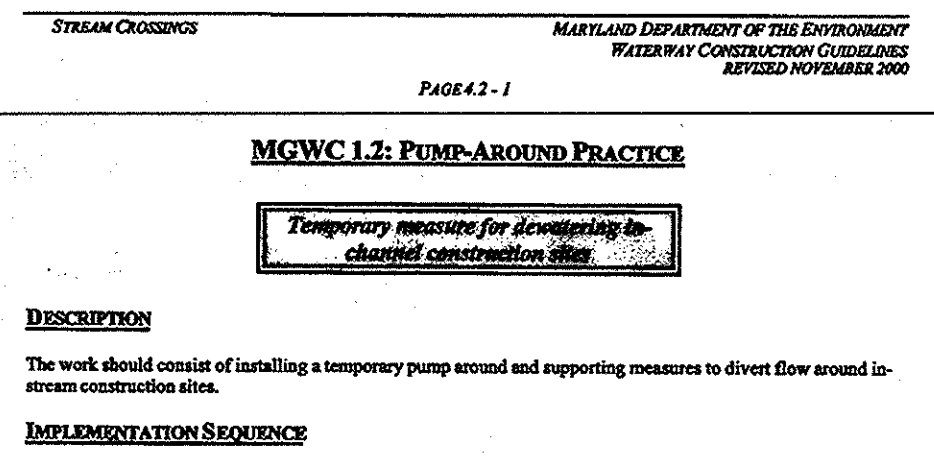
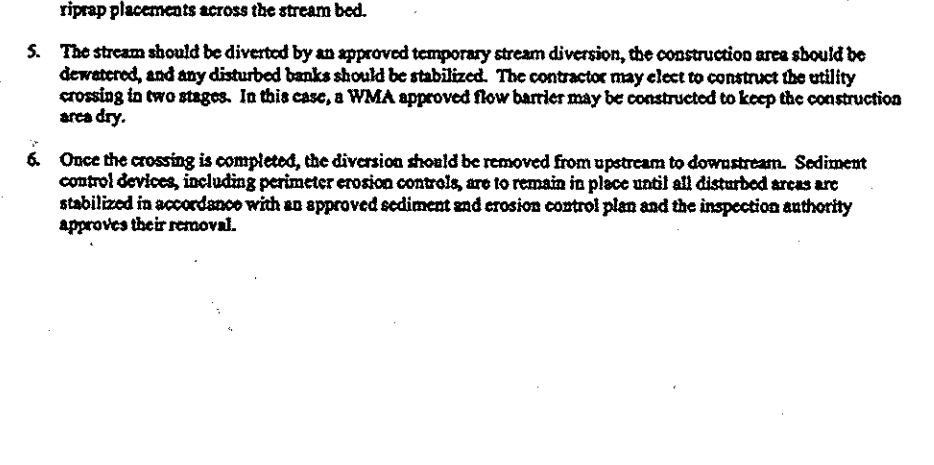
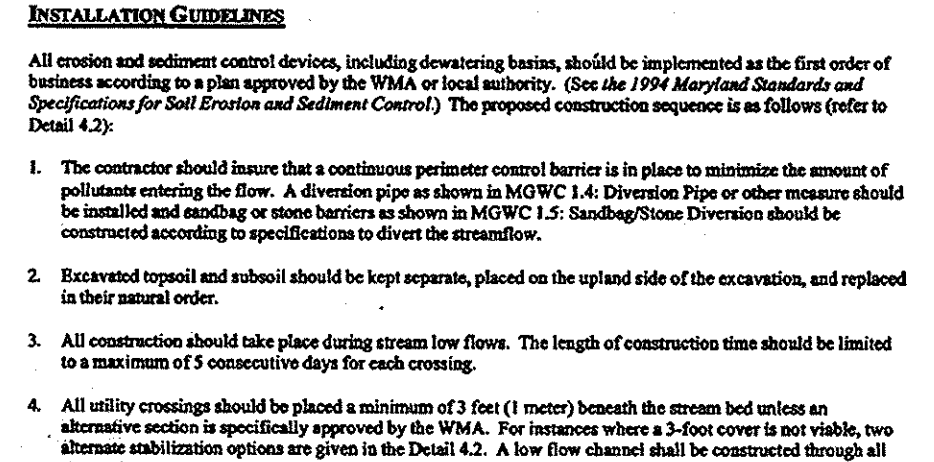
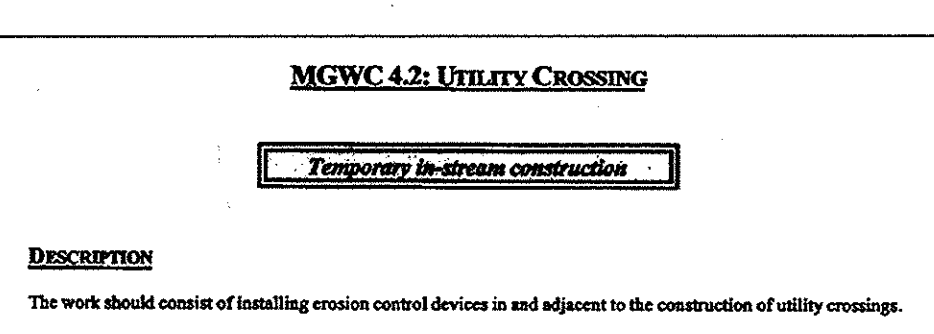
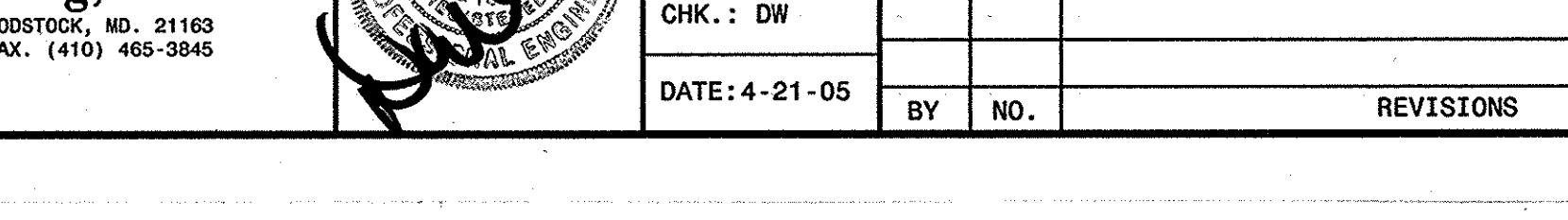
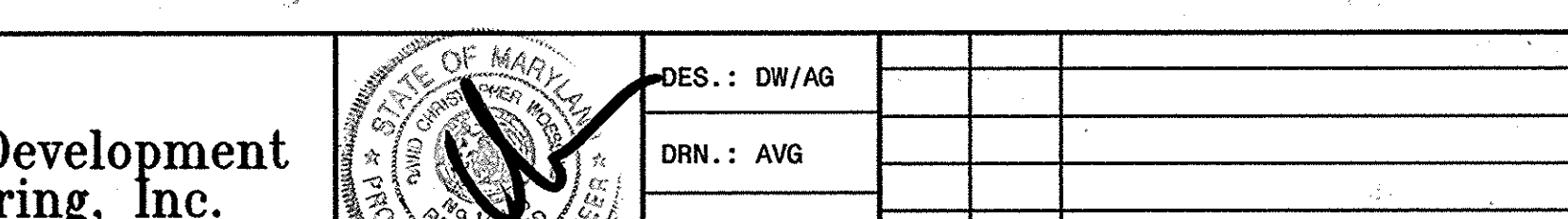
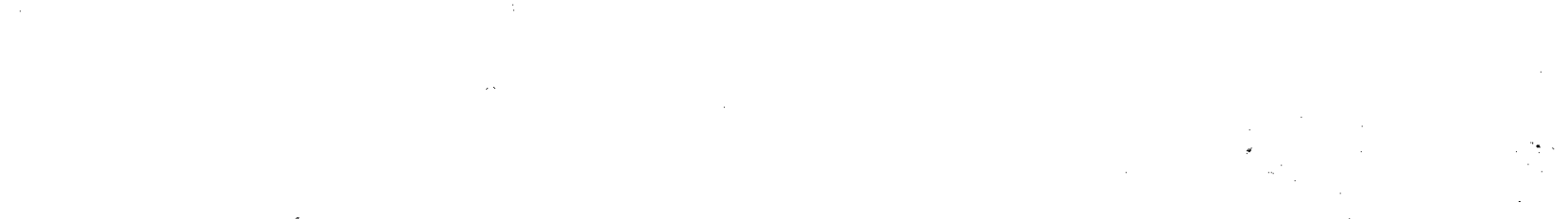
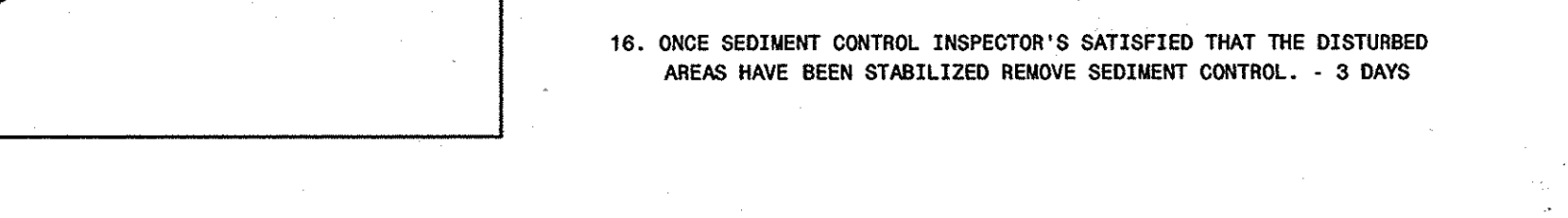
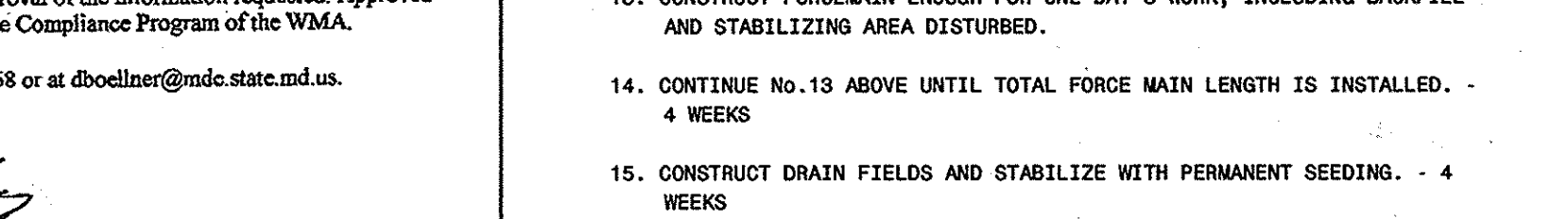
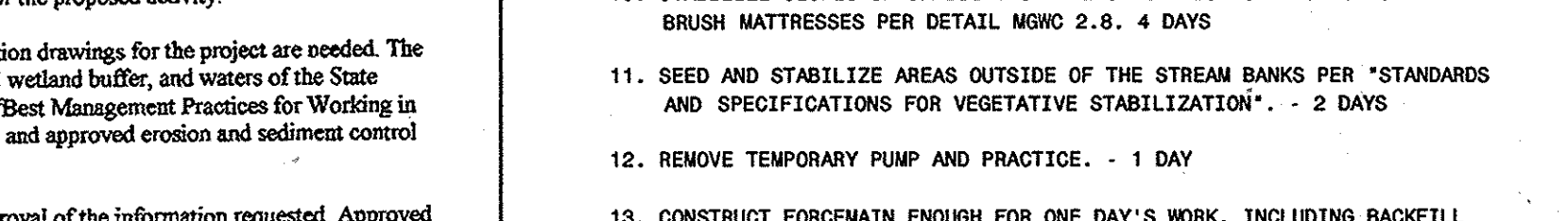
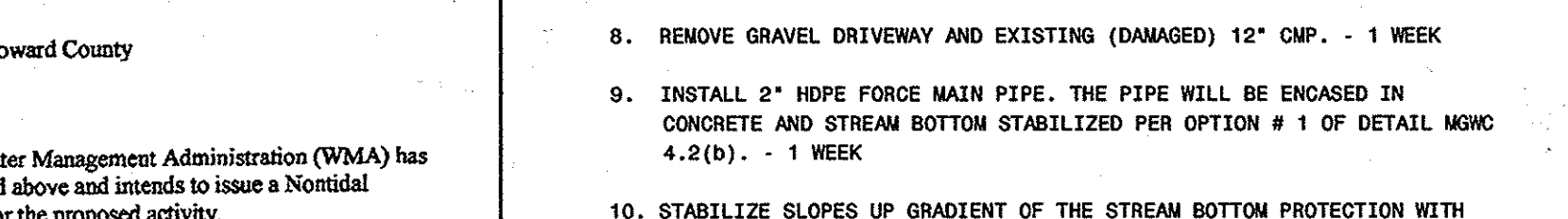
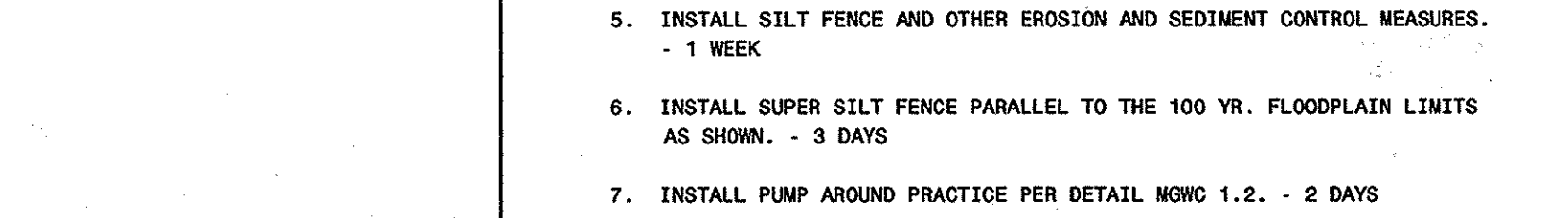
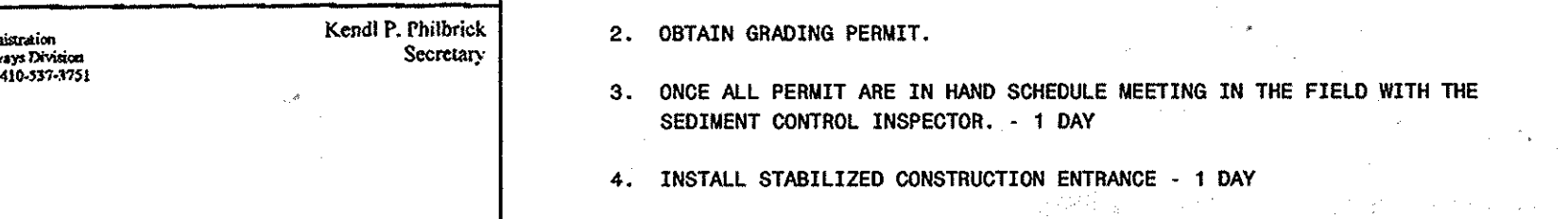
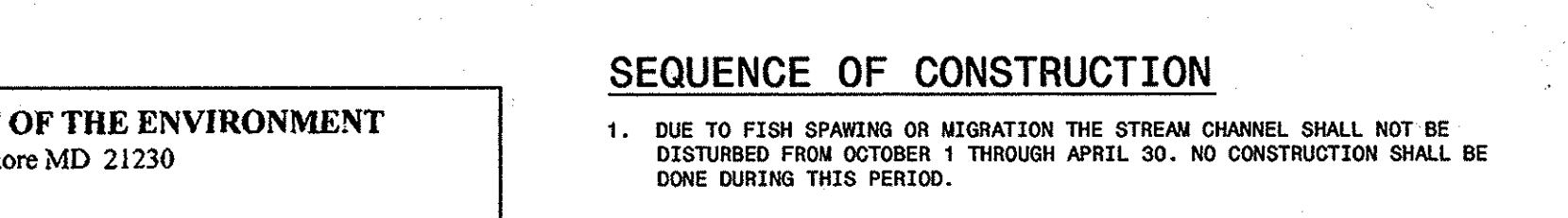
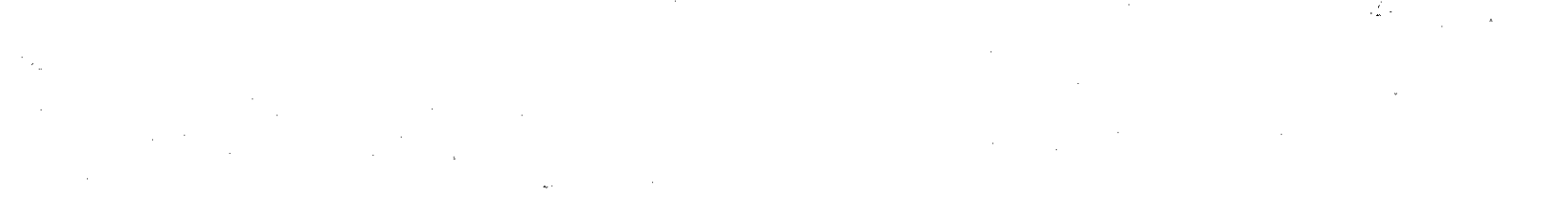
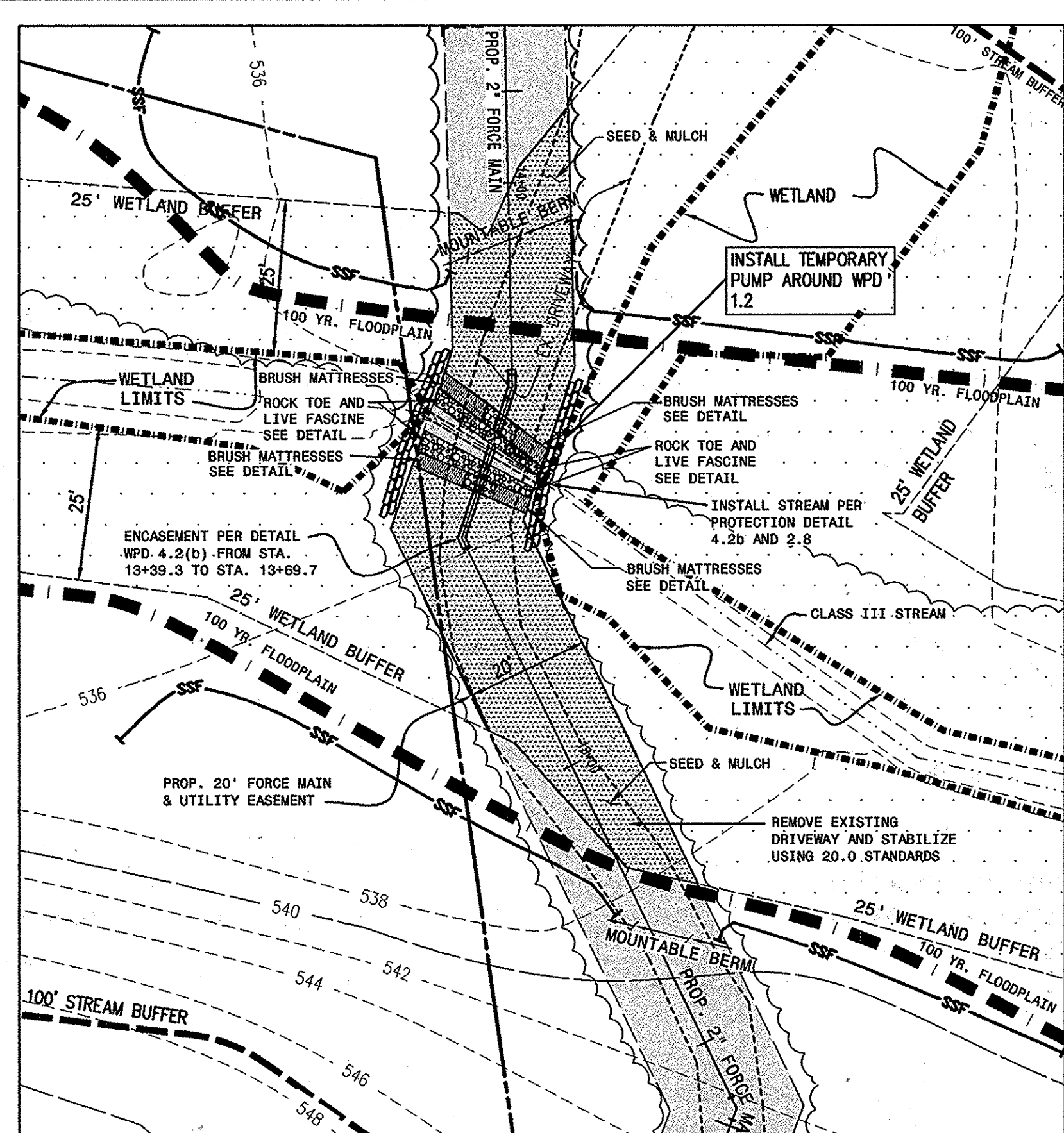
1. Construction activities including the installation of erosion and sediment control measures should not begin until all necessary easement and right-of-way have been acquired.

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SEQUENCE OF CONSTRUCTION

- 1. DUE TO FISH SPAWNING OR MIGRATION THE STREAM CHANNEL SHALL NOT BE DISTURBED FROM OCTOBER 1 THROUGH APRIL 30. NO CONSTRUCTION SHALL BE DONE DURING THIS PERIOD.

- 2. OBTAIN GRADING PERMIT.
- 3. ONCE ALL PERMIT ARE IN HAND SCHEDULE MEETING IN THE FIELD WITH THE SEDIMENT CONTROL INSPECTOR. - 1 DAY

- 4. INSTALL STABILIZED CONSTRUCTION ENTRANCE - 1 DAY
- 5. INSTALL SILT FENCE AND OTHER EROSION AND SEDIMENT CONTROL MEASURES. - 1 WEEK
- 6. INSTALL SUPER SILT FENCE PARALLEL TO THE 100 YR. FLOODPLAIN LIMITS AS SHOWN. - 3 DAYS

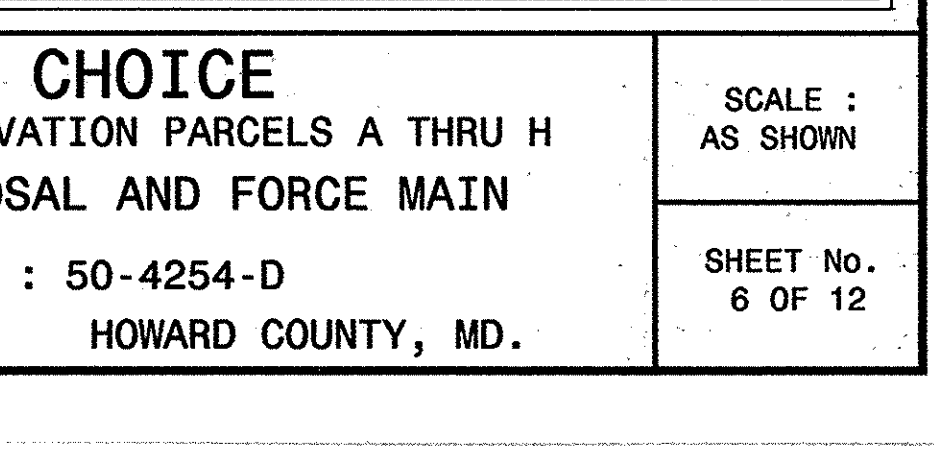
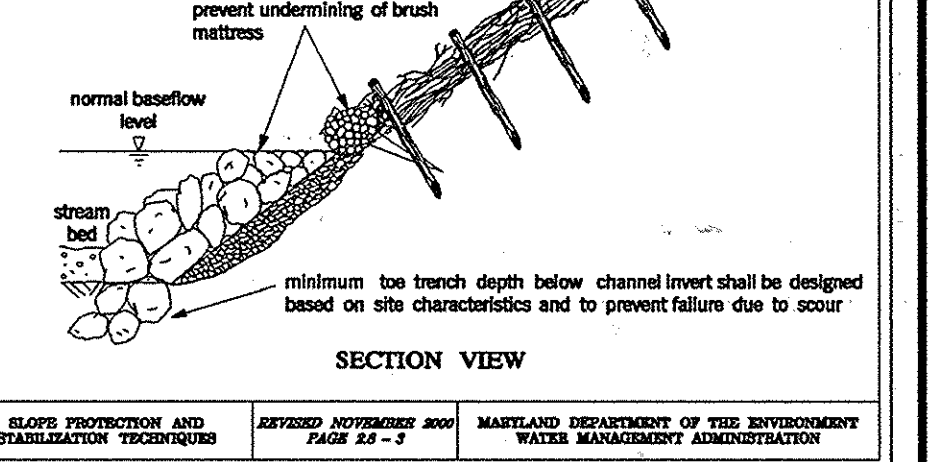
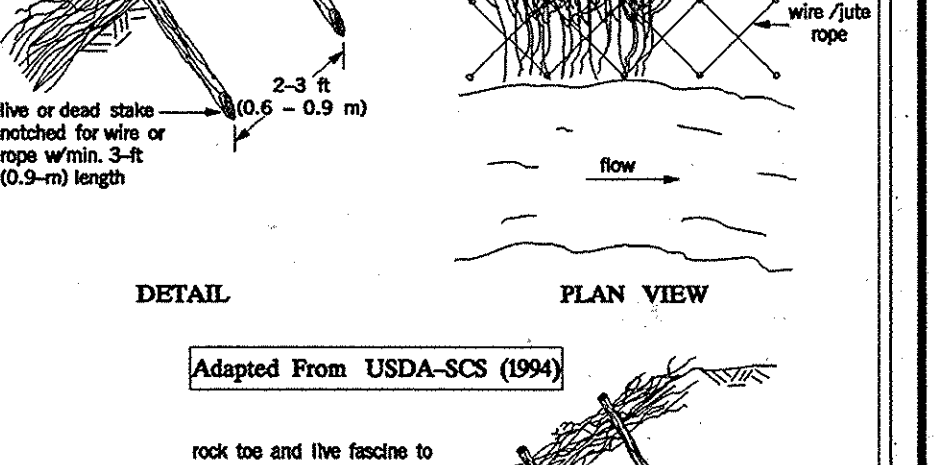
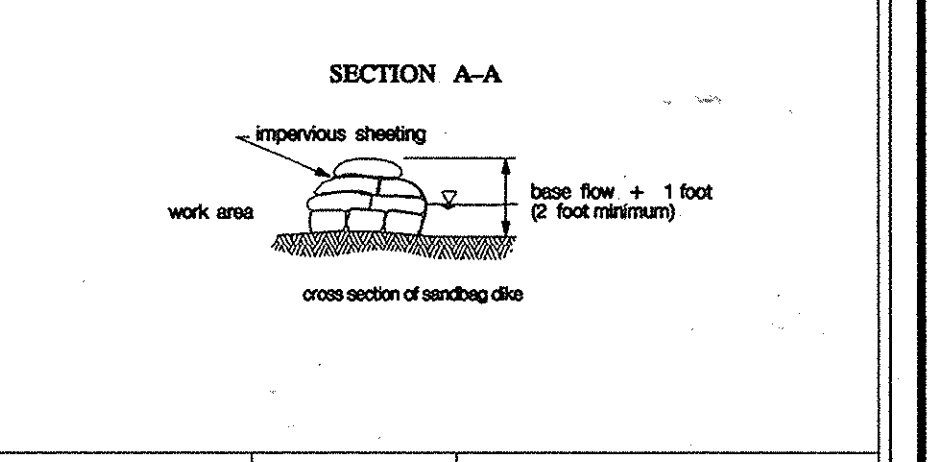
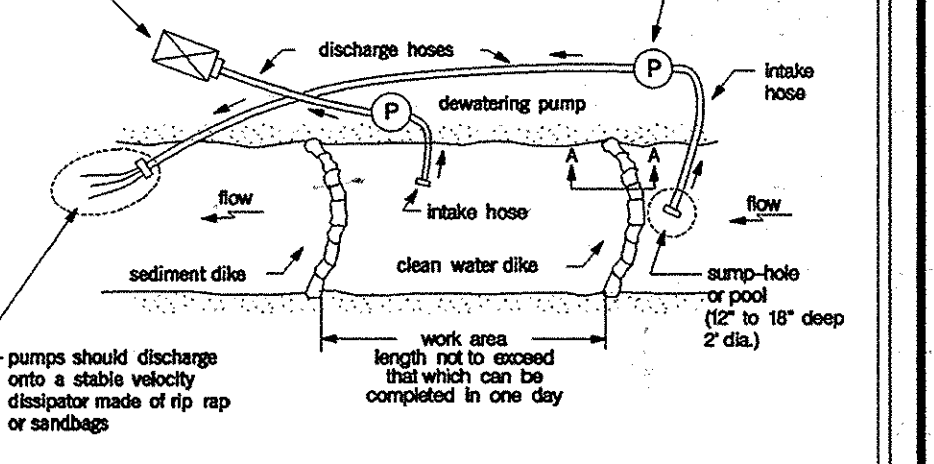
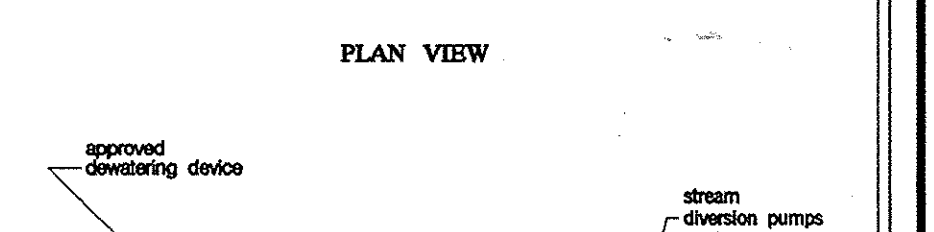
- 7. INSTALL PUMP AROUND PRACTICE PER DETAIL MGWC 1.2. - 2 DAYS
- 8. REMOVE GRAVEL DRIVEWAY AND EXISTING (DAMAGED) 12" CMP. - 1 WEEK
- 9. INSTALL 2" HDPE FORCE MAIN PIPE. THE PIPE WILL BE ENCASED IN CONCRETE AND STREAM BOTTOM STABILIZED PER OPTION # 1 OF DETAIL MGWC 4.2.(b). - 1 WEEK

- 10. STABILIZE SLOPES UP GRADIENT OF THE STREAM BOTTOM PROTECTION WITH BRUSH MATRESSES PER DETAIL MGWC 2.8. - 4 DAYS
- 11. SEED AND STABILIZE AREAS OUTSIDE OF THE STREAM BANKS PER STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION*. - 2 DAYS

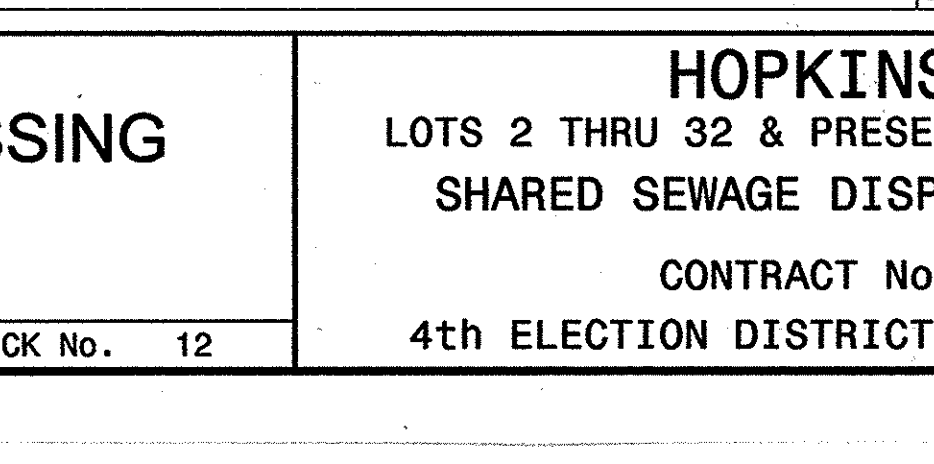
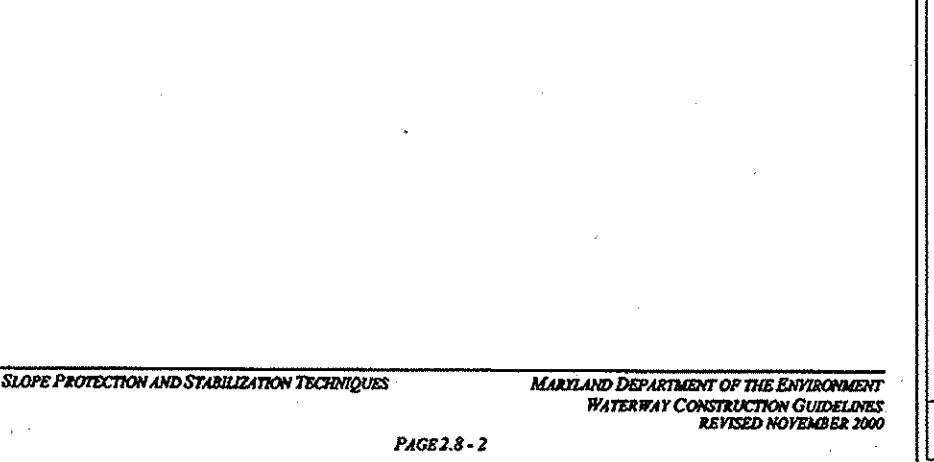
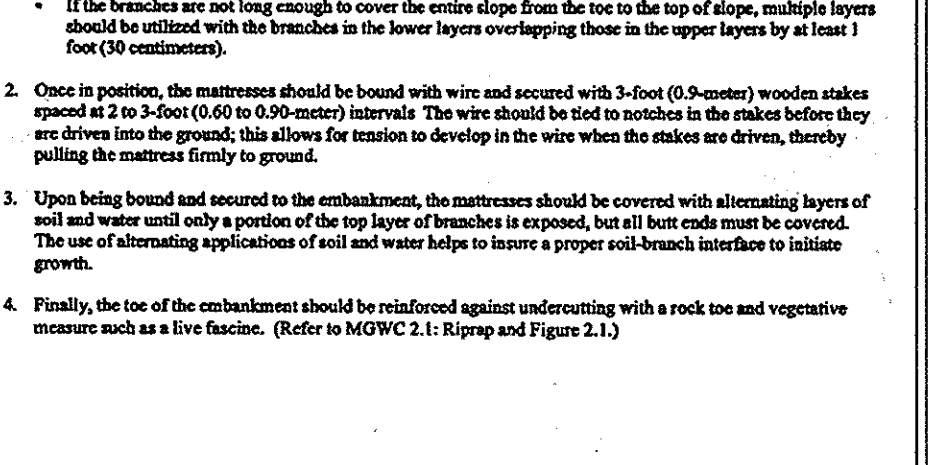
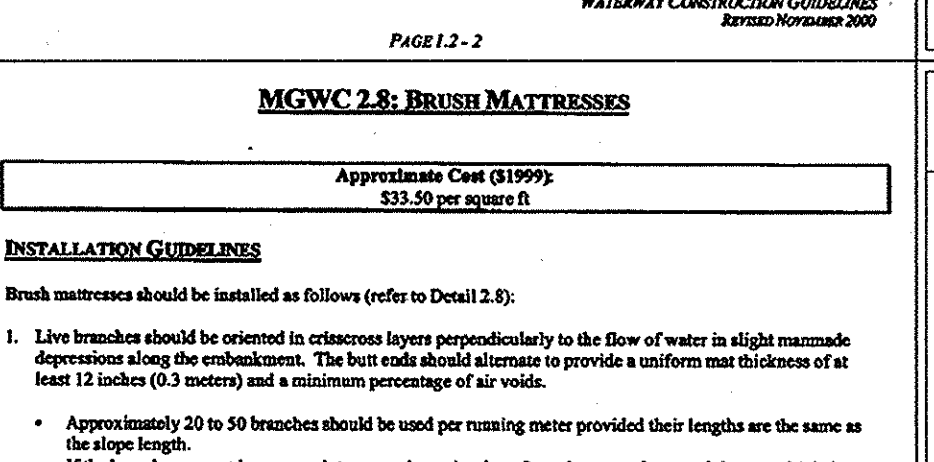
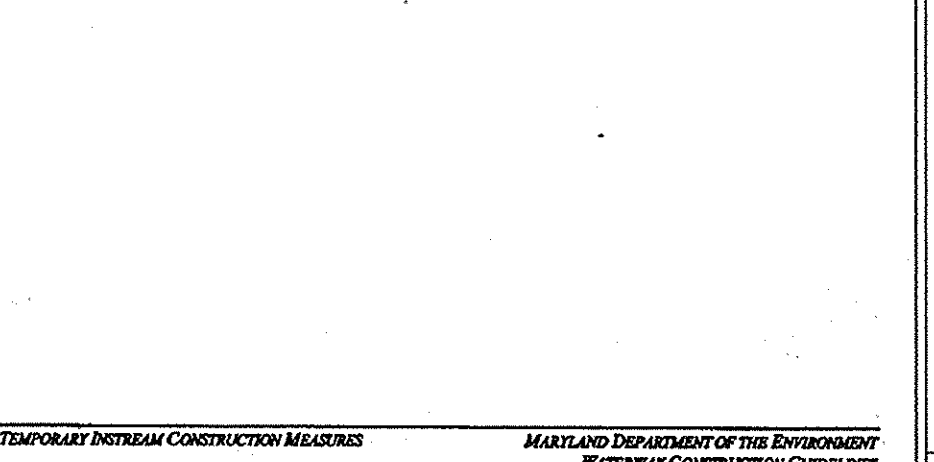
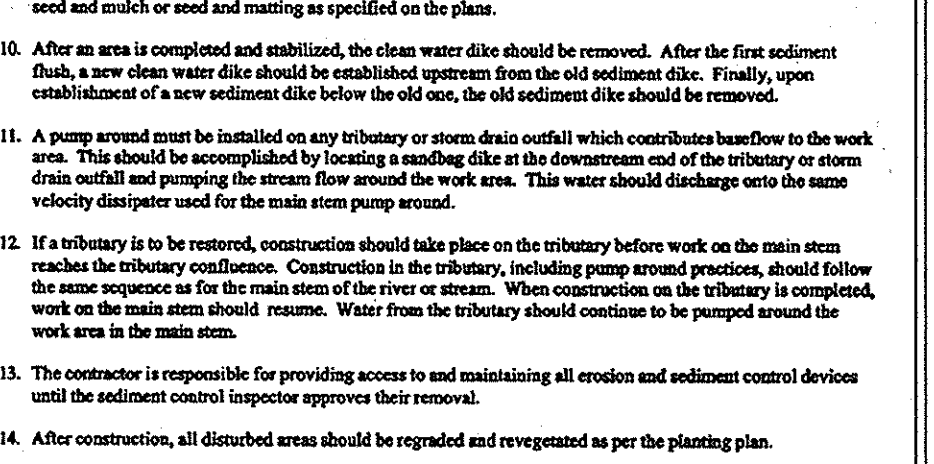
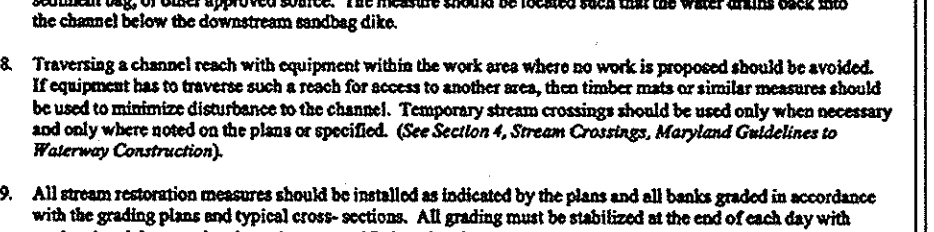
- 12. REMOVE TEMPORARY PUMP AND PRACTICE. - 1 DAY
- 13. CONSTRUCT FOREWALL ENOUGH FOR ONE DAY'S WORK, INCLUDING BACKFILL AND STABILIZATION AREA DISTURBED.
- 14. CONTINUE NO. 13 ABOVE UNTIL TOTAL FORCE MAIN LENGTH IS INSTALLED. - 4 WEEKS

- 15. CONSTRUCT DRAIN FIELDS AND STABILIZE WITH PERMANENT SEEDING. - 4 WEEKS
- 16. ONCE SEDIMENT CONTROL INSPECTOR'S SATISFIED THAT THE DISTURBED AREAS HAVE BEEN STABILIZED REMOVE SEDIMENT CONTROL. - 3 DAYS

Maryland's Guidelines To Waterway Construction DETAIL 1.2: PUMP-AROUND PRACTICE



Maryland's Guidelines To Waterway Construction DETAIL 2.8: BRUSH MATRESSES



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 16-18, 22-26, AND 28-32; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 5-10, 17-22, 24 & 27.

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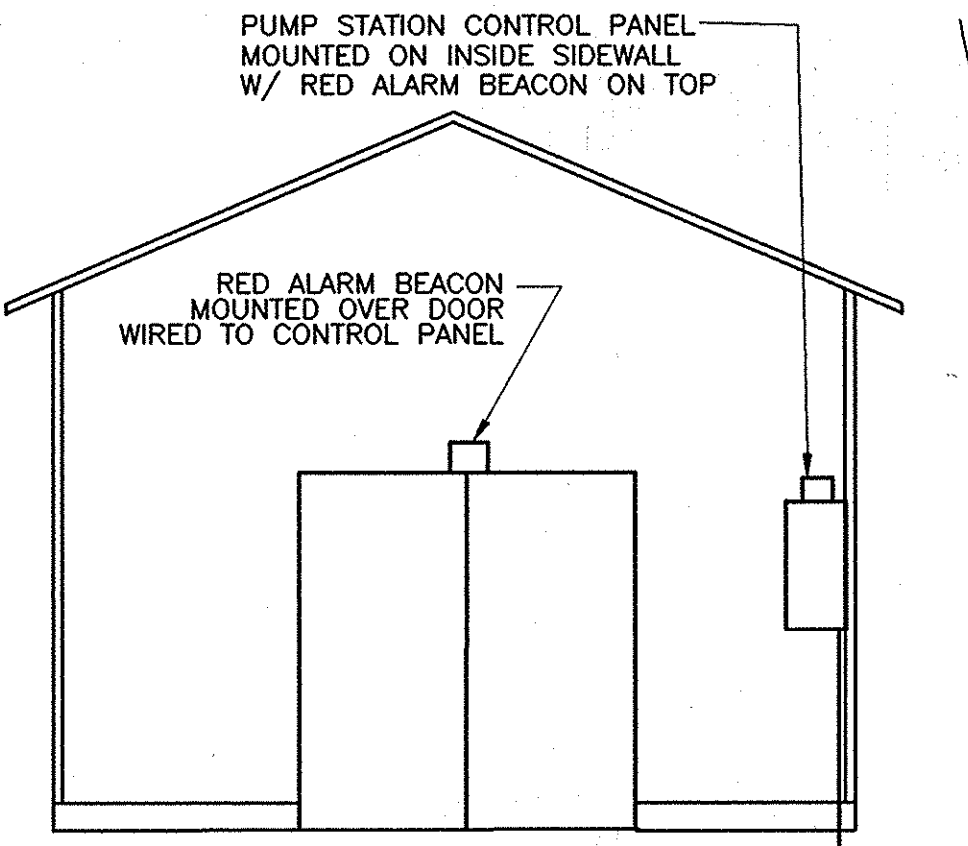
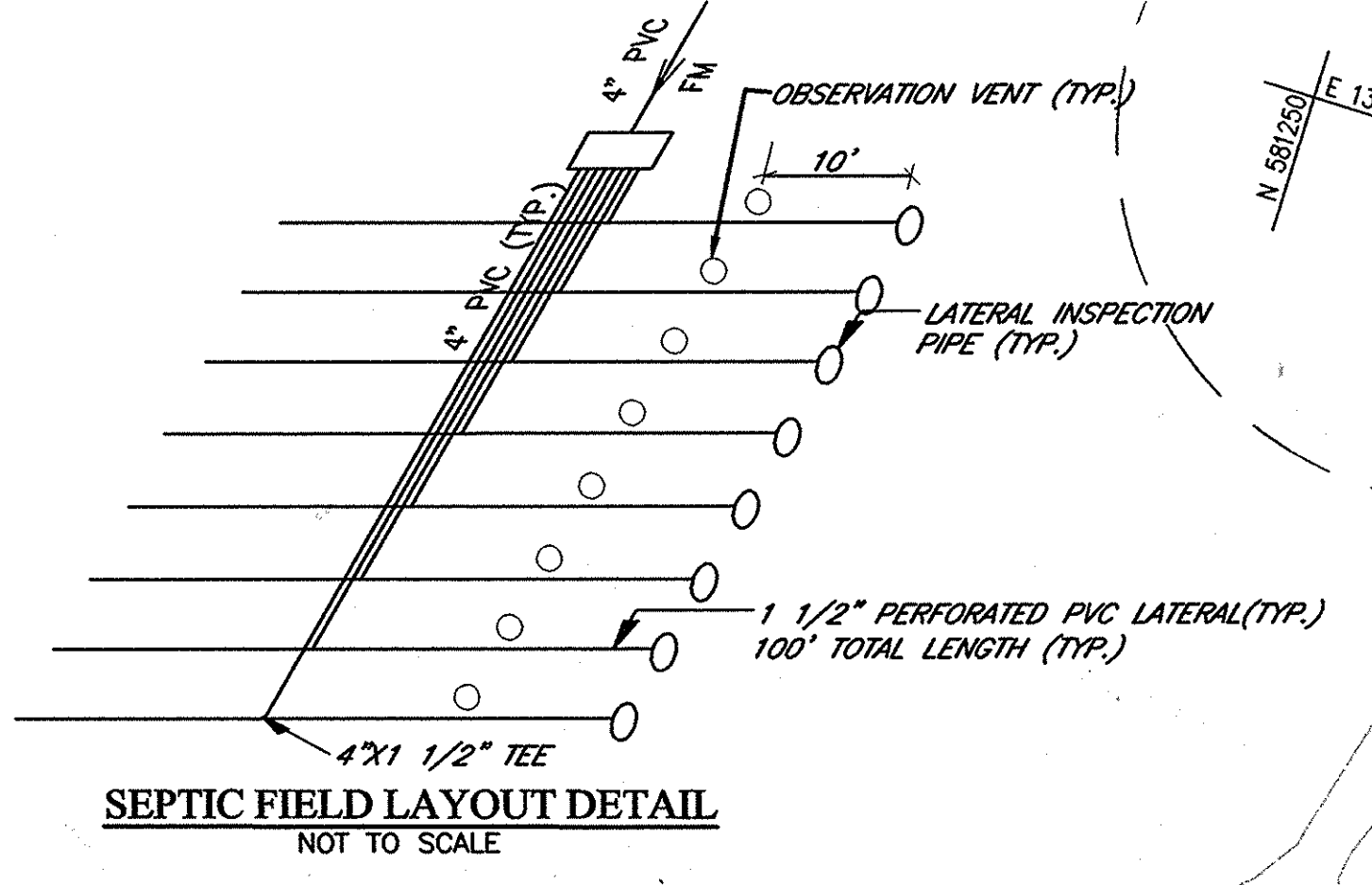
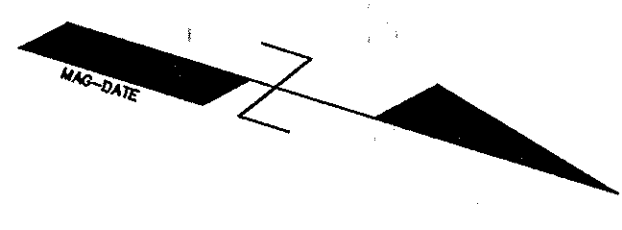
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 4, 13-16, 23-26 AND 28-32, AND FOR PRIVATE WATER AND A SHARE SEWERAGE SYSTEM FOR LOTS 3-10, 17-22, 12 & 27, HOWARD COUNTY HEALTH DEPARTMENT
Robert Walter
 HOWARD COUNTY HEALTH OFFICER DATE 6/1/05



UTILITY STORAGE BUILDING
 SCALE: N.T.S.
 SEE SPECIFICATIONS (SHEET 10 OF 12)

NOTE:
 THIS SHARED ON SITE SEWAGE DISPOSAL SYSTEM MUST BE PLACED IN SERVICE BEFORE THE COLLECTION SYSTEM.

TRADEPHIA ROAD

P/O PRES. PARCEL 'G'

NON-BUILDABLE PRESERVATION PARCEL 'H'

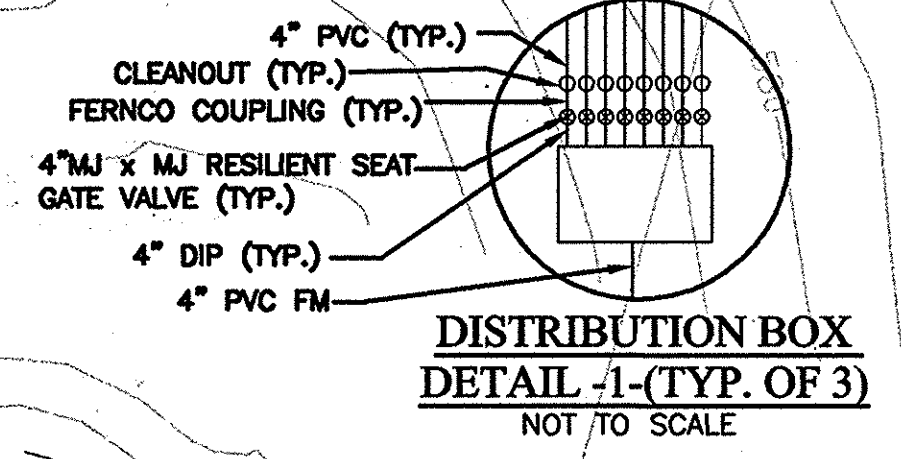
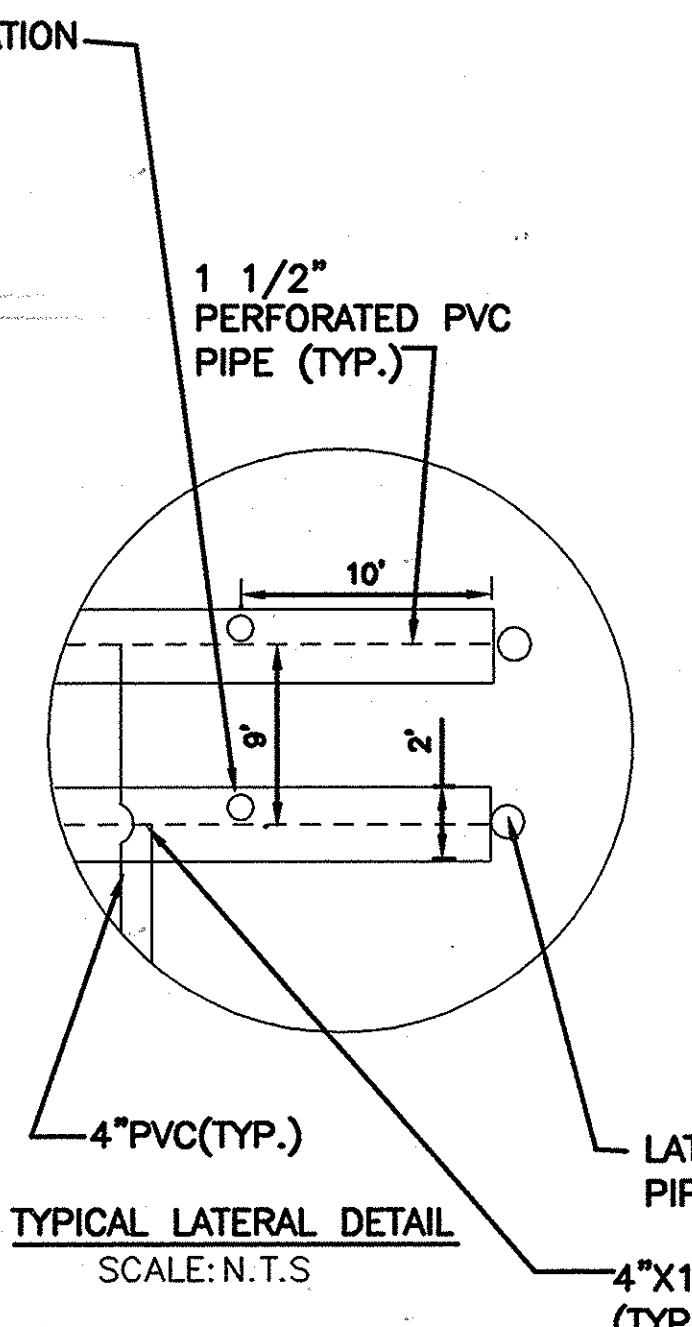
PRESERVATION PARCEL 'G'

DRAIN FIELD #1 SYSTEM 'B'

DRAIN FIELD SCHEDULE, FIELD 1 (B)

TRENCH LAYOUT- PRESSURE, DEEP TRENCH, 1 1/2" DIAMETER LATERALS										
TRENCH NO.	LATERAL INV.	STONE DEPTH (FT.) BELOW LATERAL	TRENCH LENGTH (FT.)	LATERAL LENGTH (FT.)	DESIGN HEAD (FT.)	ORIFICE DIA. (IN.)	ORIFICE FLOW RATE (GPM.)	ORIFICE SPACING (FT.)	NUMBER OF ORIFICES	LATERAL FLOW RATE (GPM.)
A-1	573.7	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-2	573.7	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-3	573.7	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-4	573.0	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-5	572.0	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-6	571.5	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-7	570.5	5	100	50	2.0	5/16	1.6	8.3	6	9.8
A-8	569.7	5	100	50	2.0	5/16	1.6	8.3	6	9.8
B-1	572.3	4	100	50	2.0	5/16	1.6	8.3	6	9.8
B-2	572.3	4	100	50	2.0	5/16	1.6	8.3	6	9.8
B-3	572.3	5	100	50	2.0	5/16	1.6	8.3	6	9.8
B-4	572.3	5	100	50	2.0	5/16	1.6	8.3	6	9.8
B-5	571.4	5	100	50	2.0	5/16	1.6	8.3	6	9.8
B-6	570.5	5	100	50	2.0	5/16	1.6	8.3	6	9.8
B-7	569.5	5	100	50	2.0	5/16	1.6	8.3	6	9.8
B-8	569.0	5	100	50	2.0	5/16	1.6	8.3	6	9.8
C-1	570.3	4	100	50	2.0	5/16	1.6	8.3	6	9.8
C-2	570.7	5	100	50	2.0	5/16	1.6	8.3	6	9.8
C-3	571.0	4.6	100	50	2.0	5/16	1.6	8.3	6	9.8
C-4	571.0	5	100	50	2.0	5/16	1.6	8.3	6	9.8
C-5	570.7	5	100	50	2.0	5/16	1.6	8.3	6	9.8
C-6	570.4	5	100	50	2.0	5/16	1.6	8.3	6	9.8
C-7	570.0	5	100	50	2.0	5/16	1.6	8.3	6	9.8
C-8	569.5	5	100	50	2.0	5/16	1.6	8.3	6	9.8

NOTE:
 FOR SEPTIC TANK, DISTRIBUTION BOX, AND TRENCH DETAILS, SEE SHEET 10 OF 12

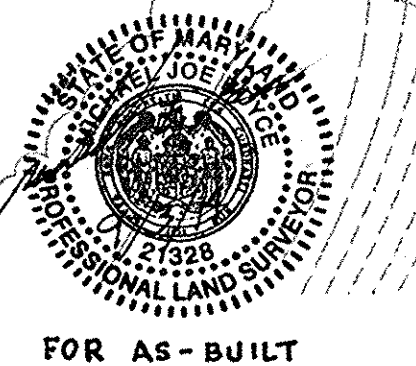


PLAN
 SCALE: 1"=50'

NOTE:
 FOR 20 SCALE REDLINE OF SEPTIC SYSTEM 'B' SEE SHEET 3 OF 12.

LEGEND

- ⊙ PROP. MONITORING WELL
- POTABLE WELL (EXISTING)
- ⊕ POTABLE WELL (PROPOSED)
- ⊞ SEPTIC EASEMENT AREA
- ⊗ RESILIENT SEAT GATE VALVE AND ROADWAY BOX
- SANITARY CLEAN OUT

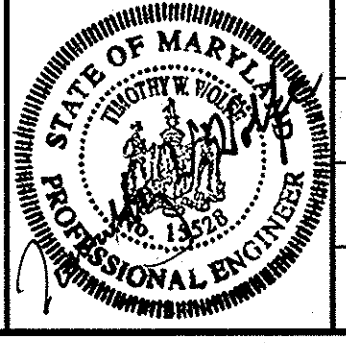


AS-BUILT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert Walter
 CHIEF, BUREAU OF UTILITIES DATE 6-3-05

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
Robert Walter
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 6/3/05

KCI TECHNOLOGIES
 ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
 10 North Park Drive
 Hunt Valley, MD 21030
 Phone: (410) 316-7800
 Fax: (410) 316-7817
 www.kci.com



DES.: KAK					
DRN.: CK					
CHK.: TWW					
DATE: Mar 31, 2005	BY: NO.	REVISIONS:	DATE:	600' SCALE MAP No. 21	BLOCK No. 12

PLAN

HOPKINS CHOICE
 LOTS 1 THRU 31 & PRESERVATION PARCELS A THRU B
SHARED SEWAGE DISPOSAL SYSTEM
 CONTRACT No.:
 4th ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE: AS SHOWN
 SHEET No. 8 OF 12

STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permit, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practice are to be installed according to the provisions of this plan and are to be conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, 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.
- All sediment 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.
- All disturbed areas must be fenced within the time period specified above in accordance with 1994 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 be done only 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 permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis :

Total Area of Site	66.84	Acre
Area Disturbed	5.72	Acre
Area to be roofed or paved	0.15	Acre
Area to be vegetatively stabilized	5.57	Acre
Total Cut	4,500	Cu. Yds.
Total Fill	4,600	Cu. Yds.
Offsite waste/borrow area location :	0.8	

- 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 control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 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.
- Trenches for the construction of utilities is limited to three pipe length or that which should be back-filled and stabilized by the end of each work day, whichever is shorter.

PERMANENT SEEDING NOTES

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

Seeded 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:

- Preferred -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Narrow or disk upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)
- Acceptable -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Narrow or disk upper three inches of soil.

Seeding: For the periods March 1 - April 30, and August 1 - October 15, seed with 60 lbs/acre (1.4 lbs/sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 - July 31, seed with 60 lbs/acre of tall fescue per acre and 2 lbs/acre (.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 - February 28, protect site by:

Option 1 -- Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring.

Option 2 -- Use sod. Option 3 -- Sear: with 60 lbs/acre Kentucky 30 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 rooted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

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

TEMPORARY SEEDING NOTES

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

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, unless previously loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 lbs/1000 sq. ft.).

Seeding: For periods March 1 - April 30 and from August 15 - October 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs/1000 sq. ft.) for the period May 1 - August 14, seed with 3 lbs/acre of weeping lovegrass (4.0 lbs/1000 sq. ft.). For the period November 16 - February 28, protect site by applying 2 tons/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/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gal per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 348 gal per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rate and methods not covered.

STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

PURPOSE
To provide a suitable soil medium for vegetative 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

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - 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.
 - The original soil to be vegetated contains material toxic to plant growth.
- 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

- 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-SCA in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications -- Soil to be used as topsoil must meet the following:
 - 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 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, slags, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
 - 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 pounds 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.

- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres. I. 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.

- Do not 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 dissipation of phytotoxic materials. Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate authority, may be used in lieu of natural topsoil. ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

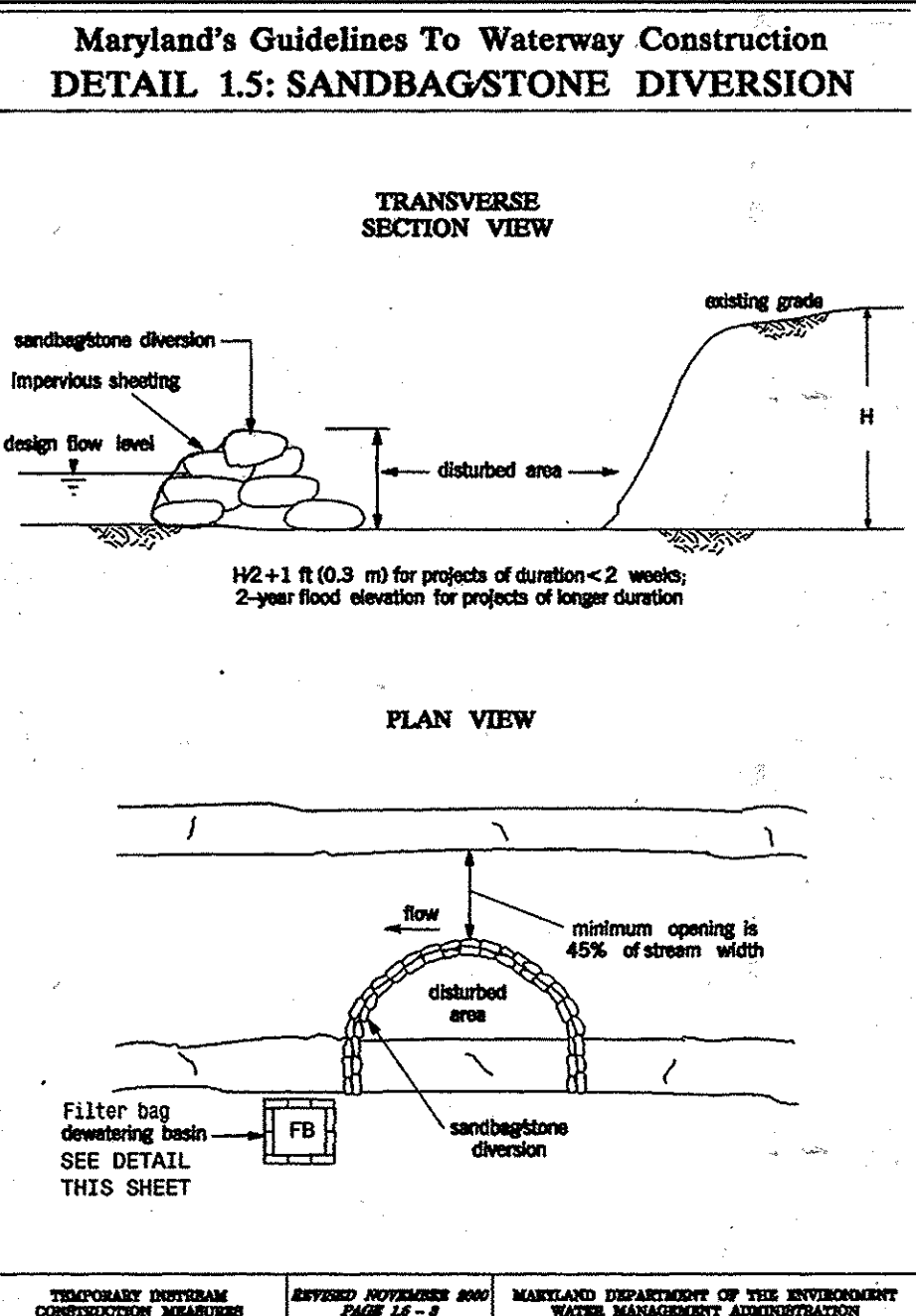
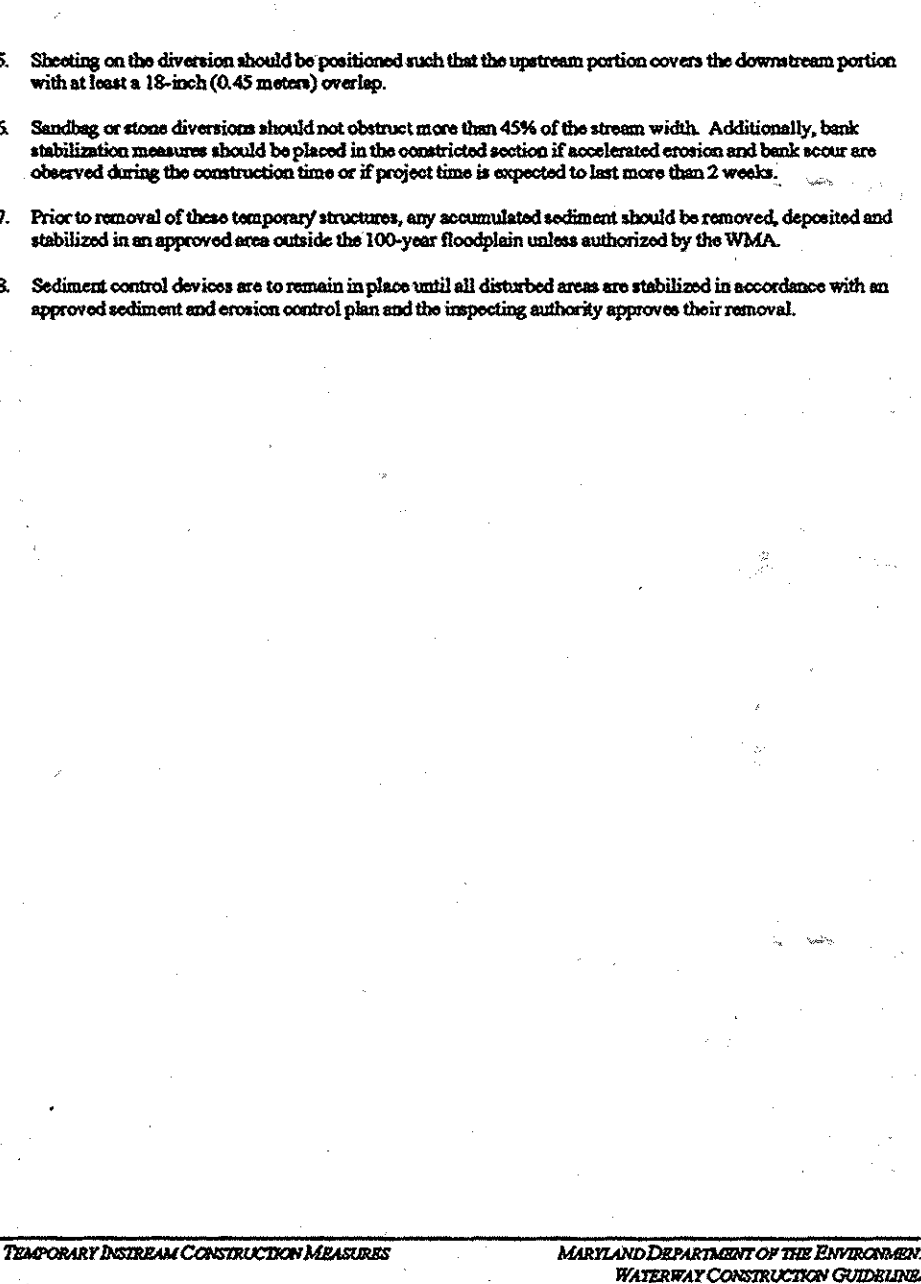
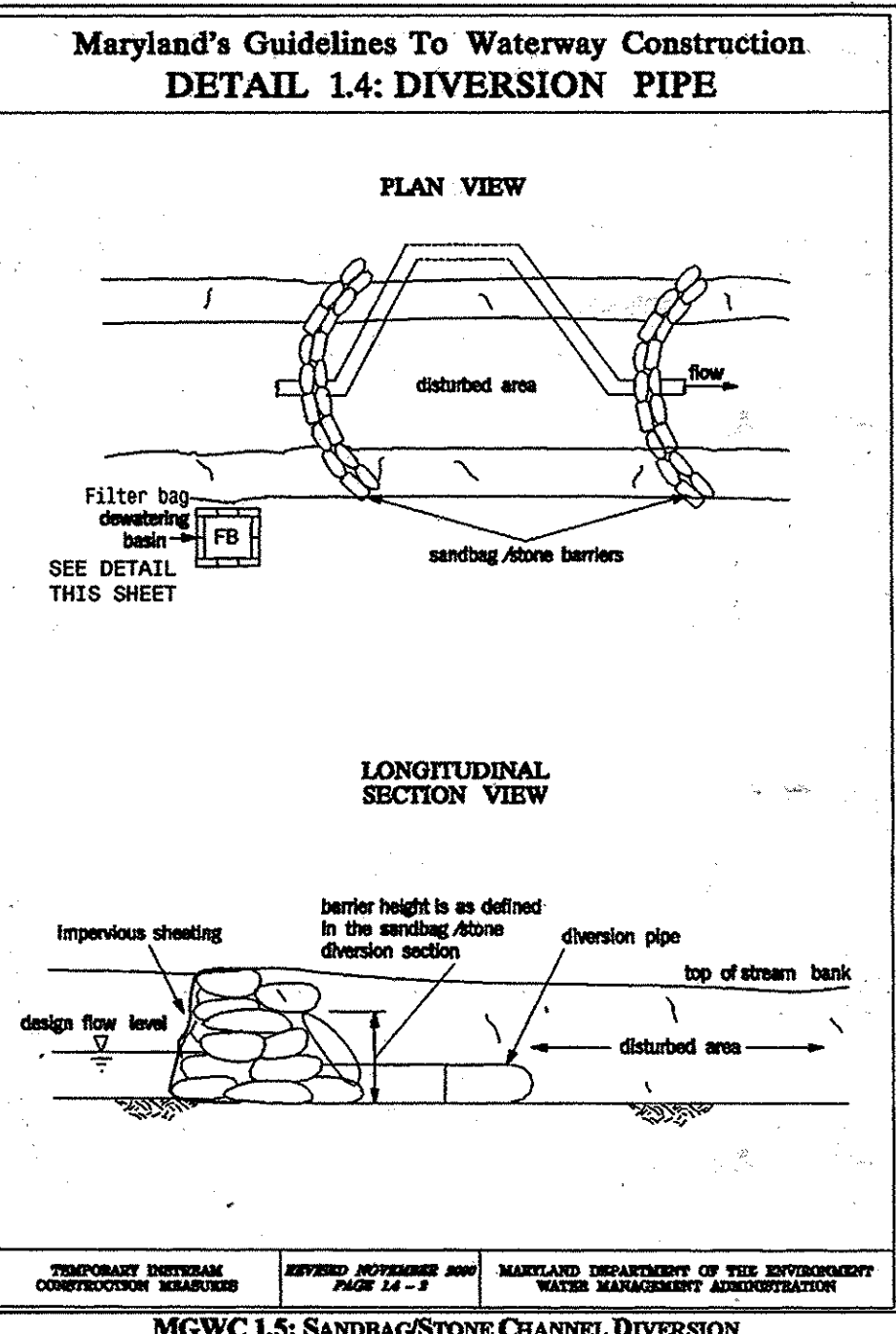
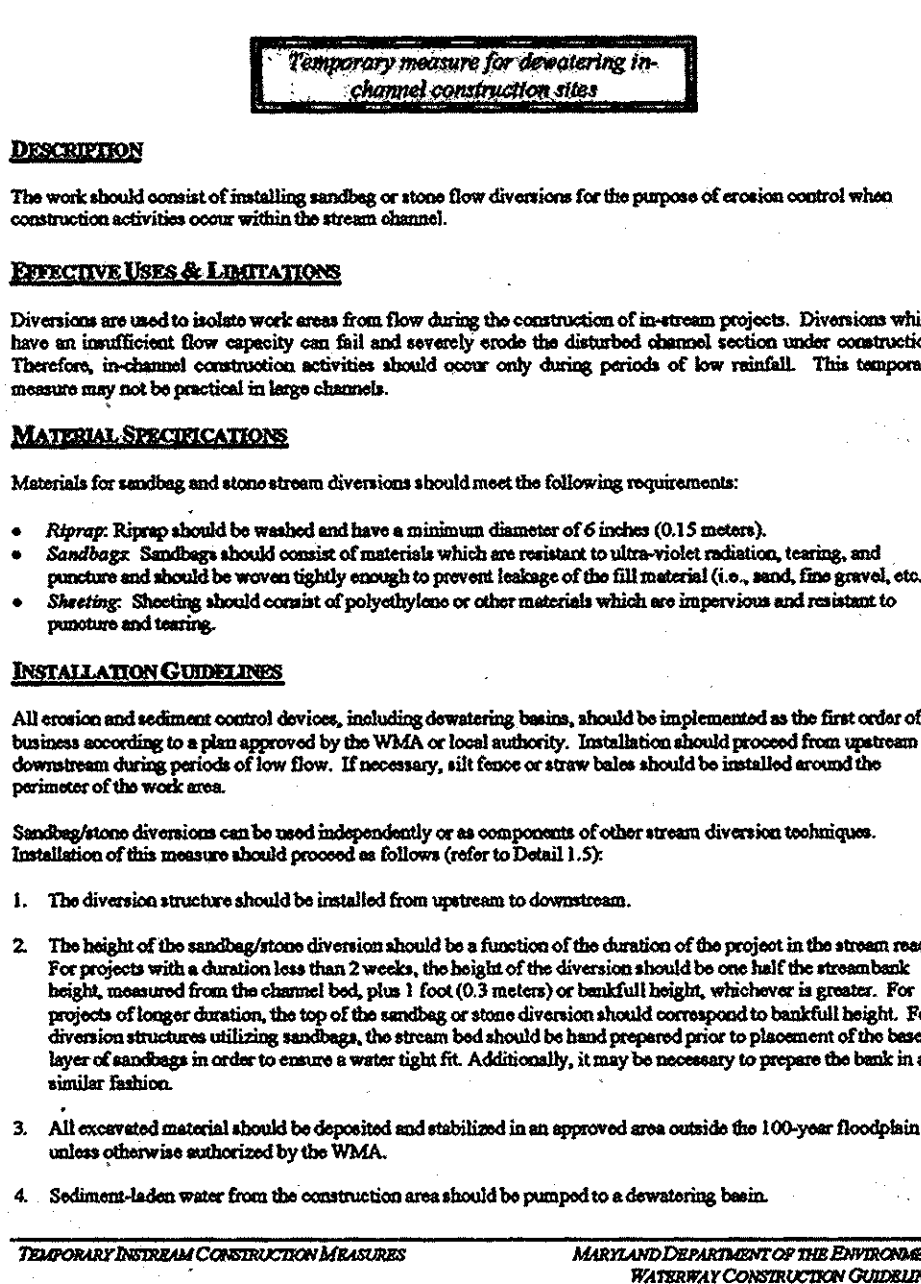
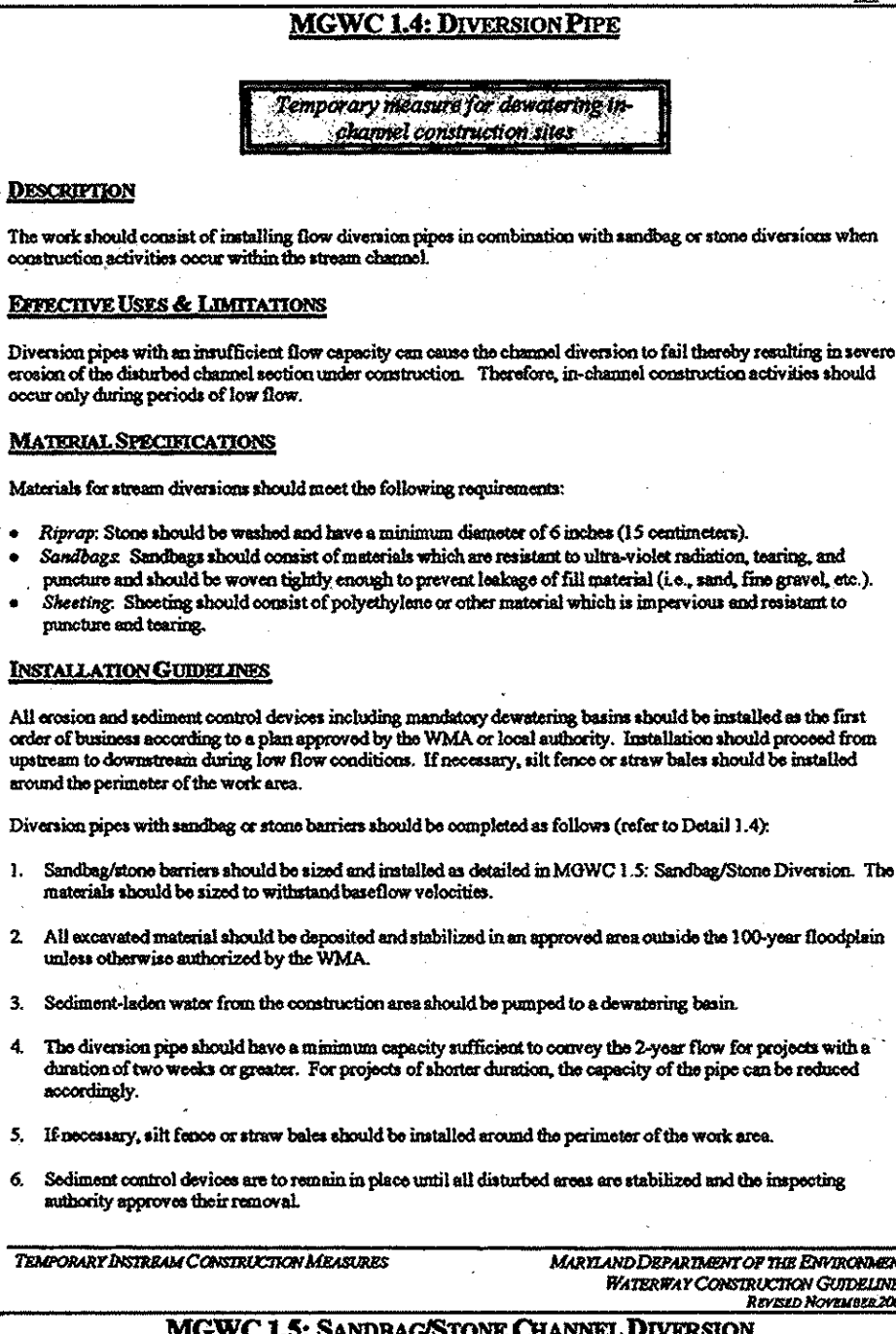
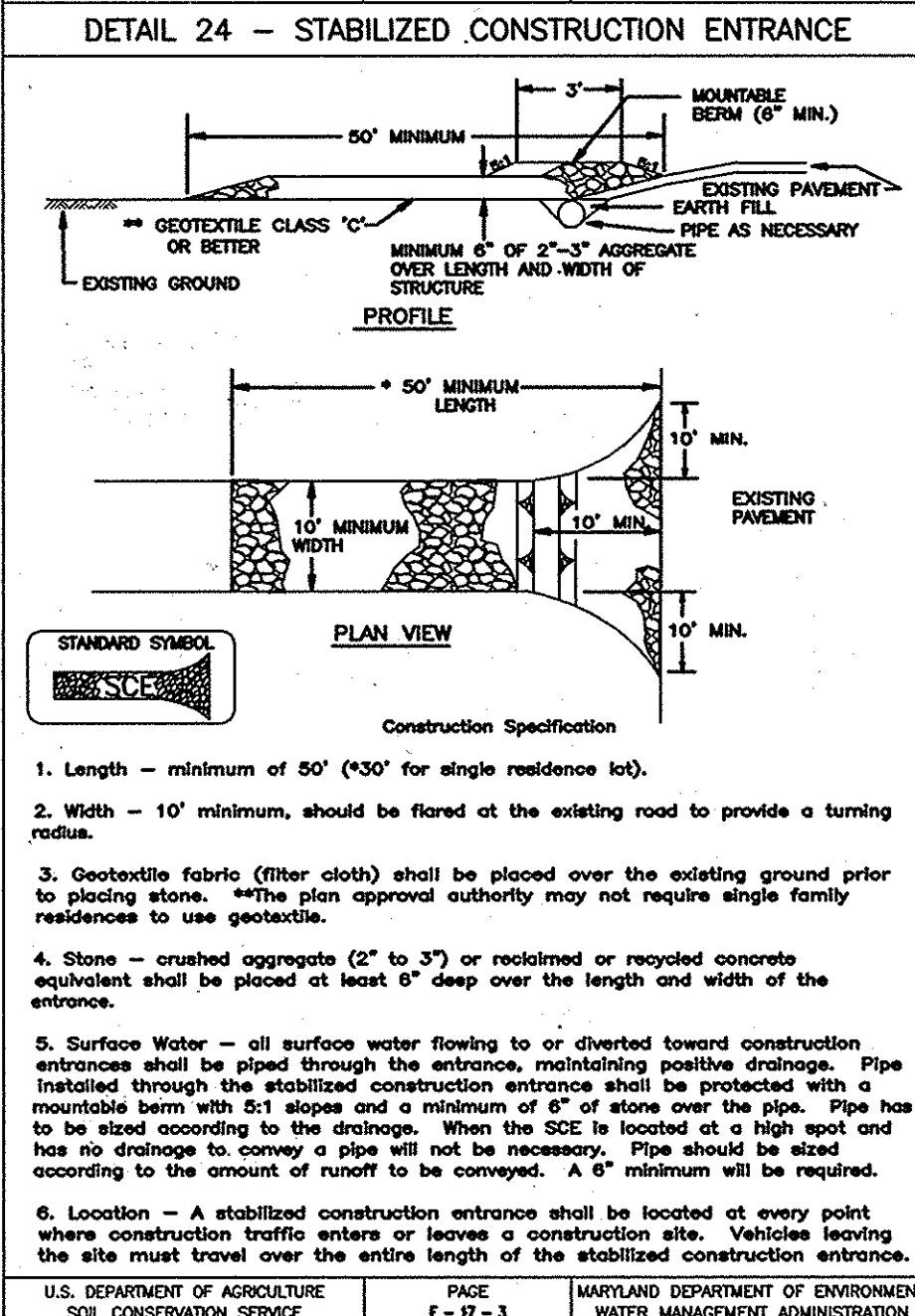
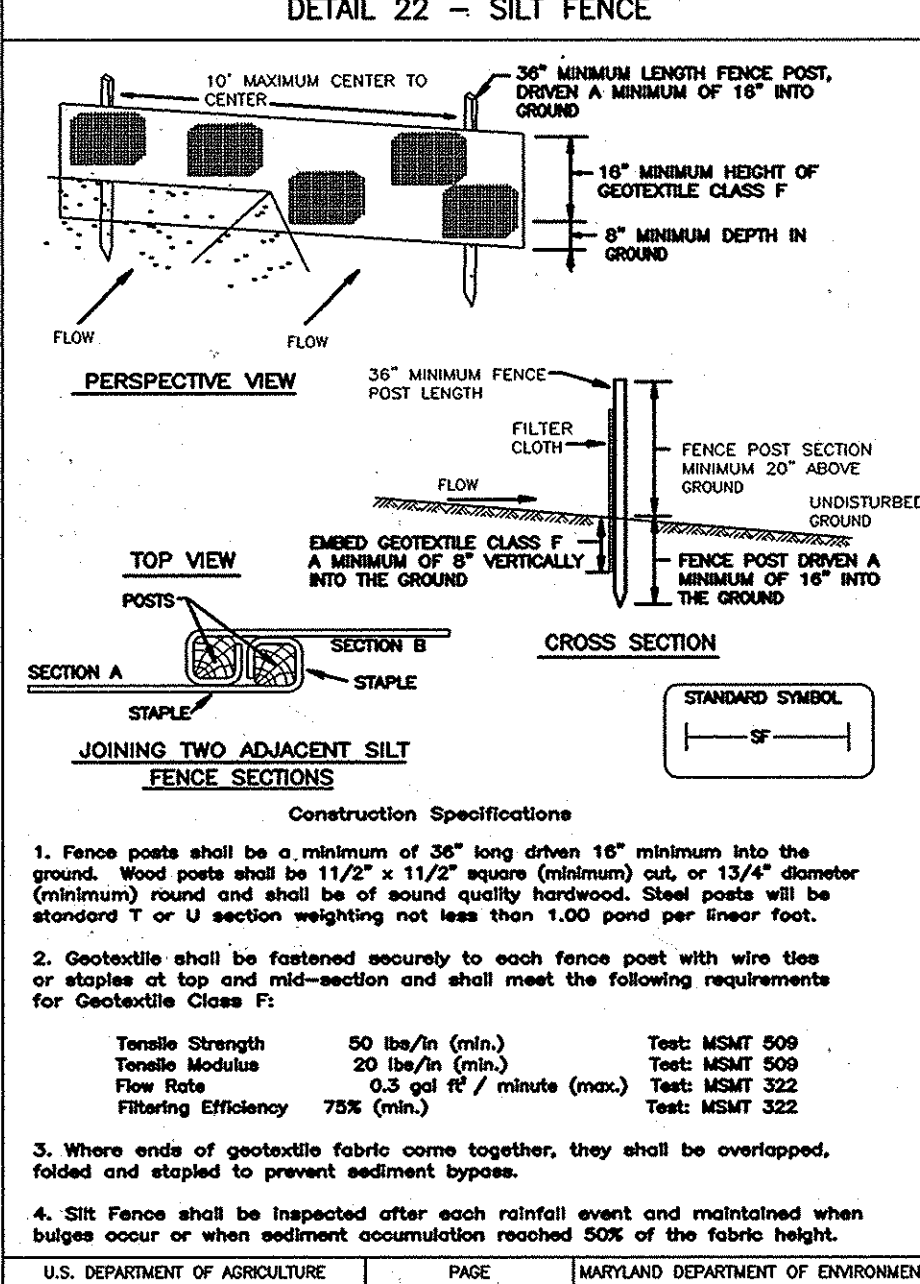
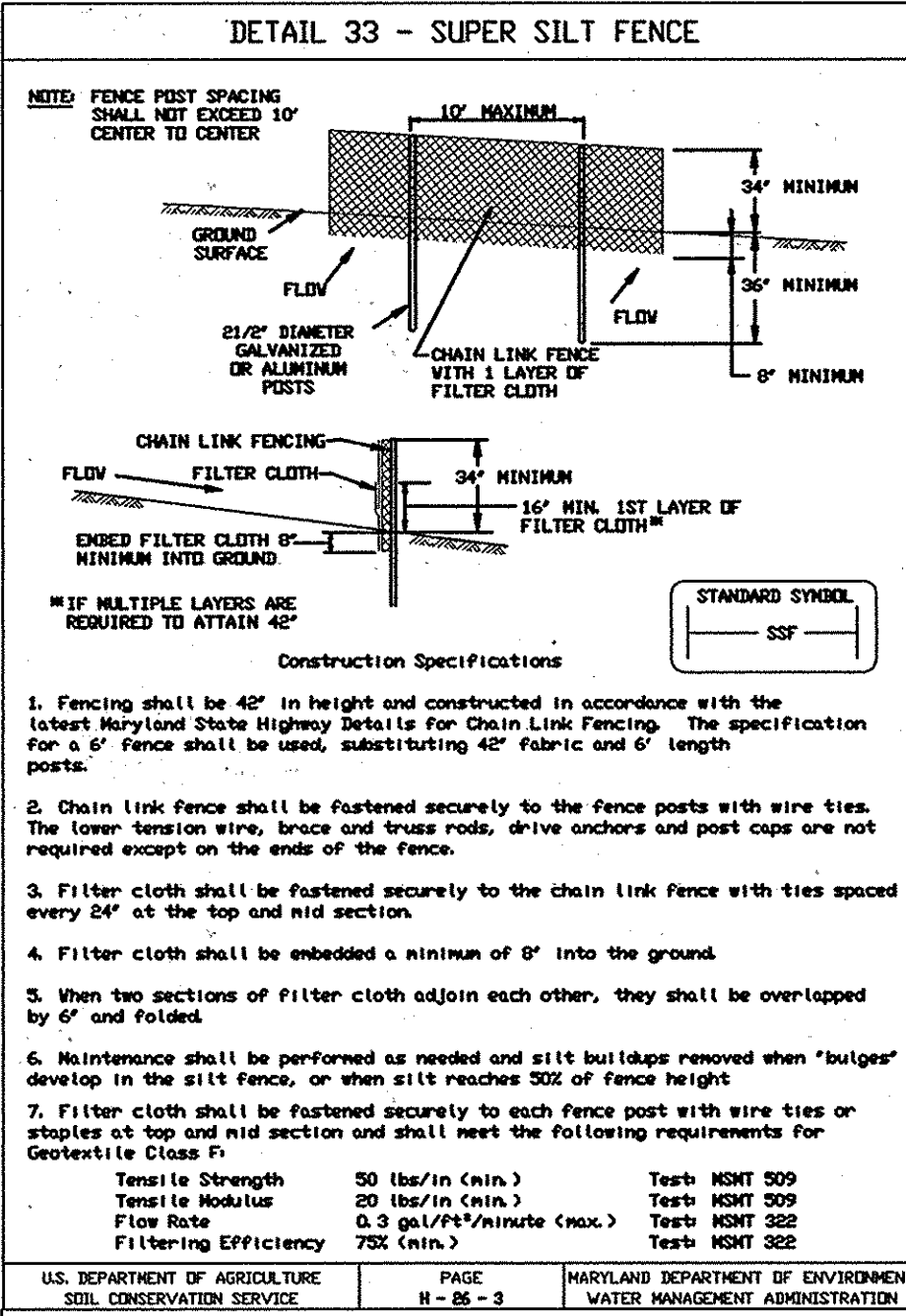
V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be top soiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seed line can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from top soiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References, Guideline Specifications, Soil Preparation and Sodding, MD-Va. Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 2, 11, 13-16, 23-26, AND 28-32; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 3-10, 17-22, 24 & 27. HOWARD COUNTY HEALTH DEPARTMENT

Robert J. Wahn 6/21/05
HOWARD COUNTY HEALTH OFFICER

HOWARD SOIL CONSERVATION DISTRICT: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim M. ... 6/1/05
U.S.D.A. - NATURAL RESOURCE CONSERVATION SERVICE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT

John L. ... 6/1/05
HOWARD COUNTY SOIL CONSERVATION DISTRICT

SEEDING CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS PER F-05-29.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Robert J. Wahn 6-7-05
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

PREPARED BY:

American Land Development and Engineering, Inc.

10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
TEL. (410) 465-7903 FAX. (410) 465-3845

DES.: DW/AG	
DRN.: AVG	
CHK.: DW/JL	
DATE: 4-21-05	
BY NO.	
REVISIONS	
DATE	

SEDIMENT CONTROL NOTES AND DETAILS

600' SCALE MAP No. 21 BLOCK No. 12

HOPKINS CHOICE

LOTS 2 THRU 32 & PRESERVATION PARCELS A THRU H SHARED SEWERAGE DISPOSAL AND FORCE MAIN

CONTRACT No. : 50-4254-D

4th ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE : AS SHOWN

SHEET No. 12 OF 12

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