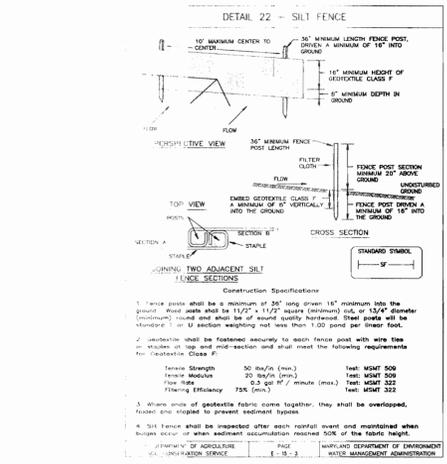


PLANT SCHEDULE				
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
	PINUS STROBUS	EASTERN WHITE PINE	15	6'-8" HT.



Specification: Dial-A-Flow®

Provide a non-corrosive flow control device to be rotatably secured in the discharge piping of the standard distribution box. The device shall have a 1 1/2" diameter eccentrically located circular opening to provide a uniform weir in any rotated position. The device shall have a leveling lip extending into the box 1/8". The sealing means shall be a cylindrical extension inside the pipe with radially extending seal to insure contact with pipe at least 3/4" inside the pipe. The device shall be provided with a gripping edge on the periphery of the end face for easy rotation. The gripping edge shall consist of six uniform extensions and valleys for easy finger gripping.

The device shall be made of low density polyethylene, and one piece construction. This seal shall also be capable of snapping behind a standard 4" corrugated pipe. The flow control device shall be Dial-A-Flow® as manufactured by American Manufacturing Company, Inc., Manassas, VA.

Featuring One Piece Construction

Flow Control:
The American Dial-A-Flow® provides a circular weir. Each outlet of the distribution box will equally discharge wastewater upon rising water level in the box. When the opening becomes submerged the Dial-A-Flow® becomes an orifice and further enhances equal distribution.

Installation Instructions

- Cut pipe as evenly as possible and remove shavings.
- Insert pipe into distribution box and extend pipe 1" into box.
- Insert Dial-A-Flow® into pipe ends with opening on one side (do not use glue).
- Note: Proper cutting of corrugated pipe will result in Dial-A-Flow® snapping behind one corrugation.
- Level pipe individually or place level on offset lip.
- Place pipes in concrete boxes into place with suitable material.
- Fill with water and "DIAL UP" each pipe to water surface.

4" Nominal
SCHEDULE 40
ASTM 3034
S & D

4" Nominal
SDR 35
ASTM 2729
CORROGATED

NOTE: ASTM does not set standards for LD of many types of pipe. Many types of pipe are specified by ASTM and wall thickness tolerance. Make sure you check your regional available pipe for fit prior to ordering the green or the gray unit. Ask for our free sample for size check.

AMERICAN MANUFACTURING COMPANY, INC.
Last revised May 11-1994 - Consensus to jhb@americanmfg.com
Copyright © American Manufacturing Company, Inc., 1994

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

Dee Myers Las 3/21/01 DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

John Sel 3/21/01 DATE

HOWARD COUNTY SOIL CONSERVATION DISTRICT

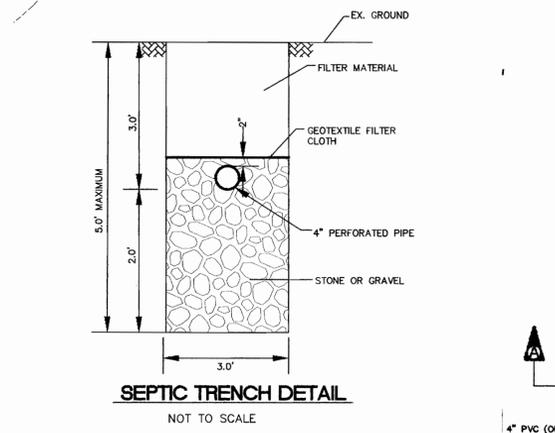
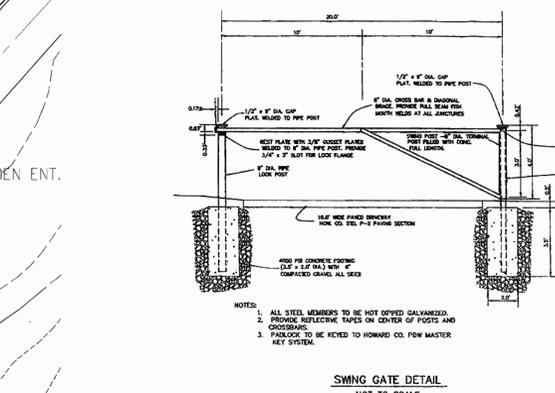
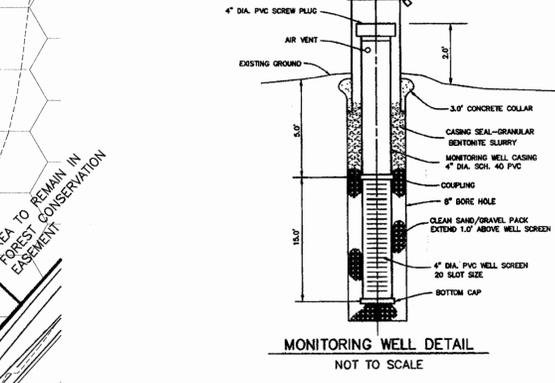
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS 1-01-89

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 1-5, 7-21, AND 23-47; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 6 & 22.

HOWARD COUNTY HEALTH DEPARTMENT

Dino M... 3/27/01 DATE

HOWARD COUNTY HEALTH OFFICER



A100-12
Patented 1/98

Commercial Filter Package

NSF Certified to ANSI/NSF Standard 42

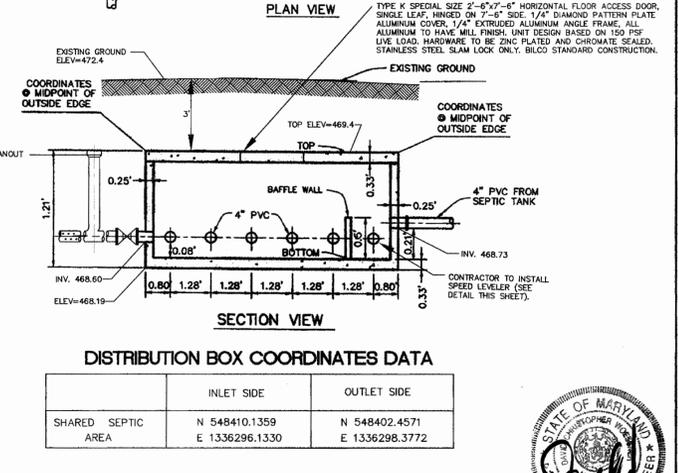
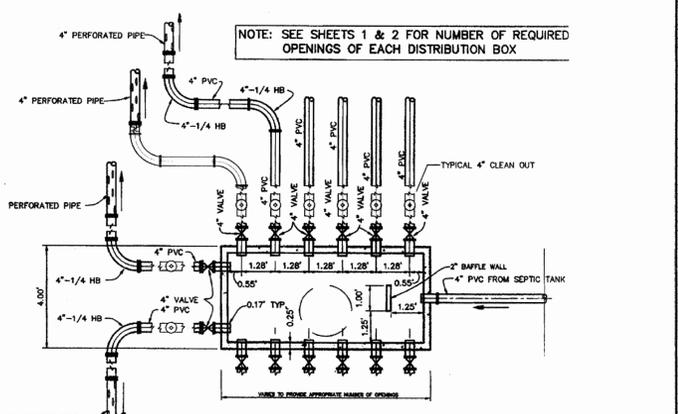
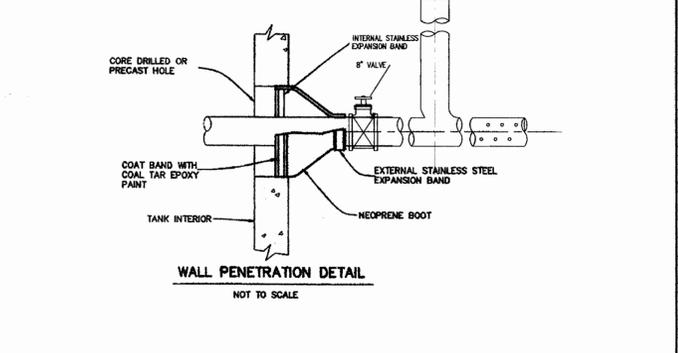
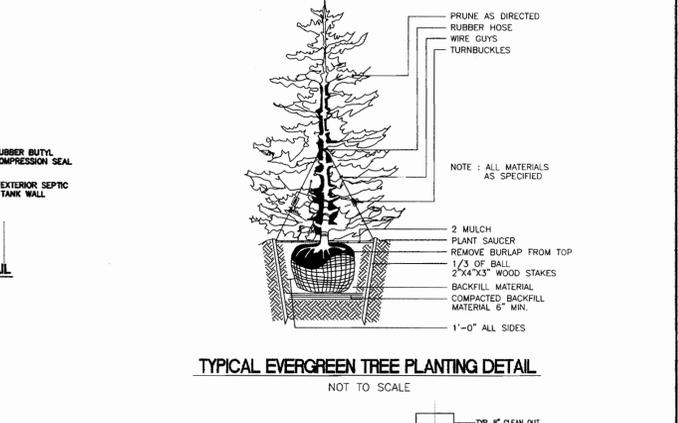
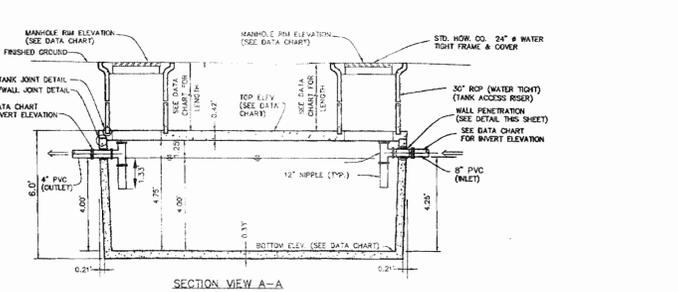
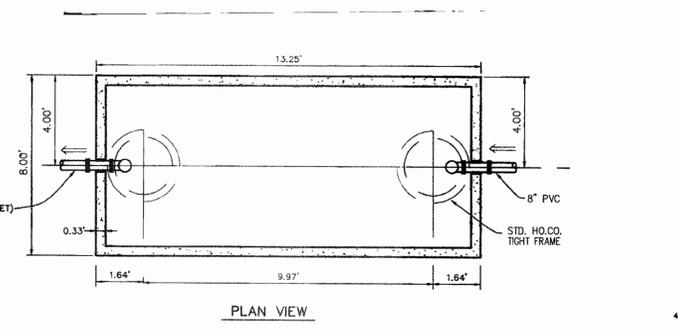
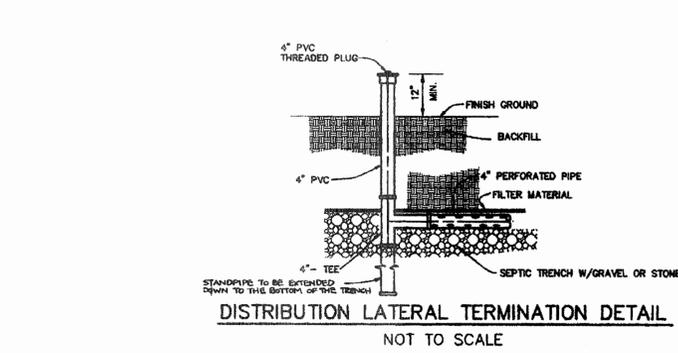
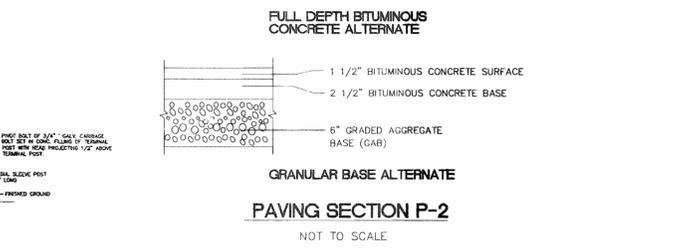
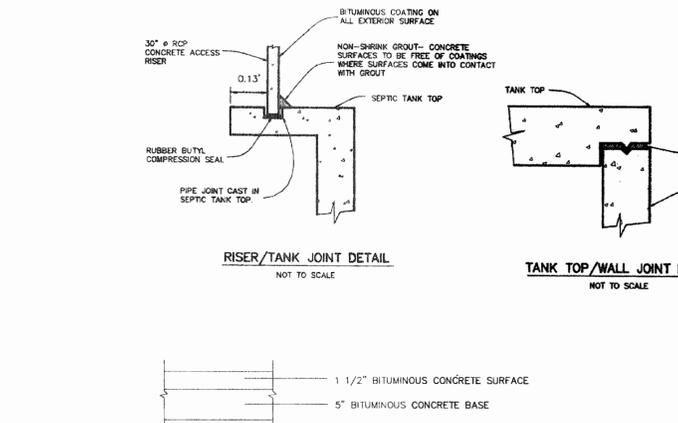
WASTEWATER FILTERS & ACCESSORIES
1-800-221-5742

Model	12" x 18" Case and Cartridge	12" x 24" Case and Cartridge	12" x 30" Case and Cartridge	12" x 36" Case and Cartridge
A100-12-16	199.00	133.00	108.00	102.00
A100-12-18	209.00	143.00	118.00	112.00
A100-12-20	219.00	153.00	128.00	122.00
A100-12-24	229.00	163.00	138.00	132.00
A100-12-30	239.00	173.00	148.00	142.00
A100-12-36	249.00	183.00	158.00	152.00

4" Nominal SDR 35 ASTM 2729 CORROGATED

STATE OF MARYLAND PROFESSIONAL ENGINEER

DES: DW/AG
DRN: DA/JC
CHK: DW/JL
DATE: 2-21-01



DISTRIBUTION BOX COORDINATES DATA

	INLET SIDE	OUTLET SIDE
SHARED SEPTIC AREA	N 548410.1359 E 1336296.1330	N 548402.4571 E 1336298.3772

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Beinger 3-19-01 DATE
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John Sel 3/21/01 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

AMERICAN LAND DEVELOPMENT AND ENGINEERING, INC.
10749 BIRMINGHAM WAY
WOODSTOCK, MD 21183
TEL: (410) 465-7903
FAX: (410) 465-3845

John Sel 3/21/01 DATE
REGISTERED PROFESSIONAL ENGINEER

STATE OF MARYLAND PROFESSIONAL ENGINEER

DES: DW/AG
DRN: DA/JC
CHK: DW/JL
DATE: 2-21-01

REVISIONS

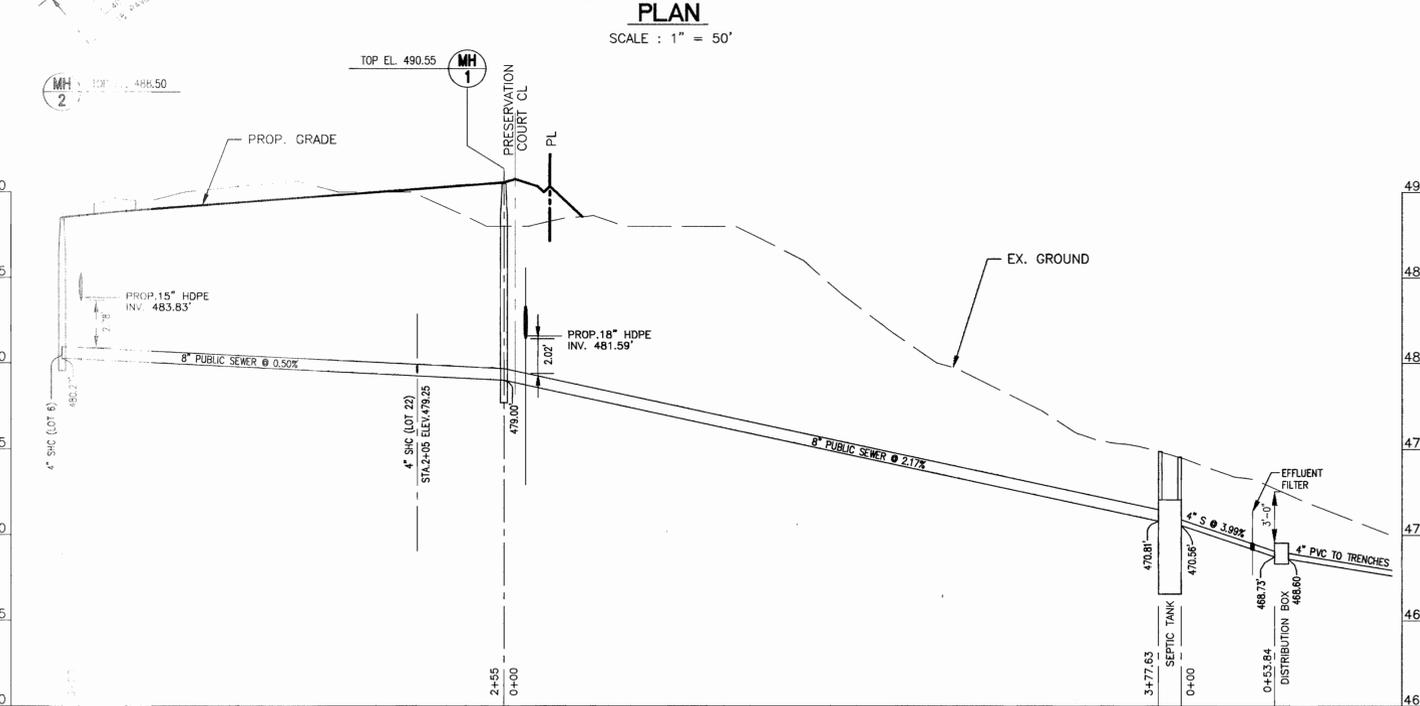
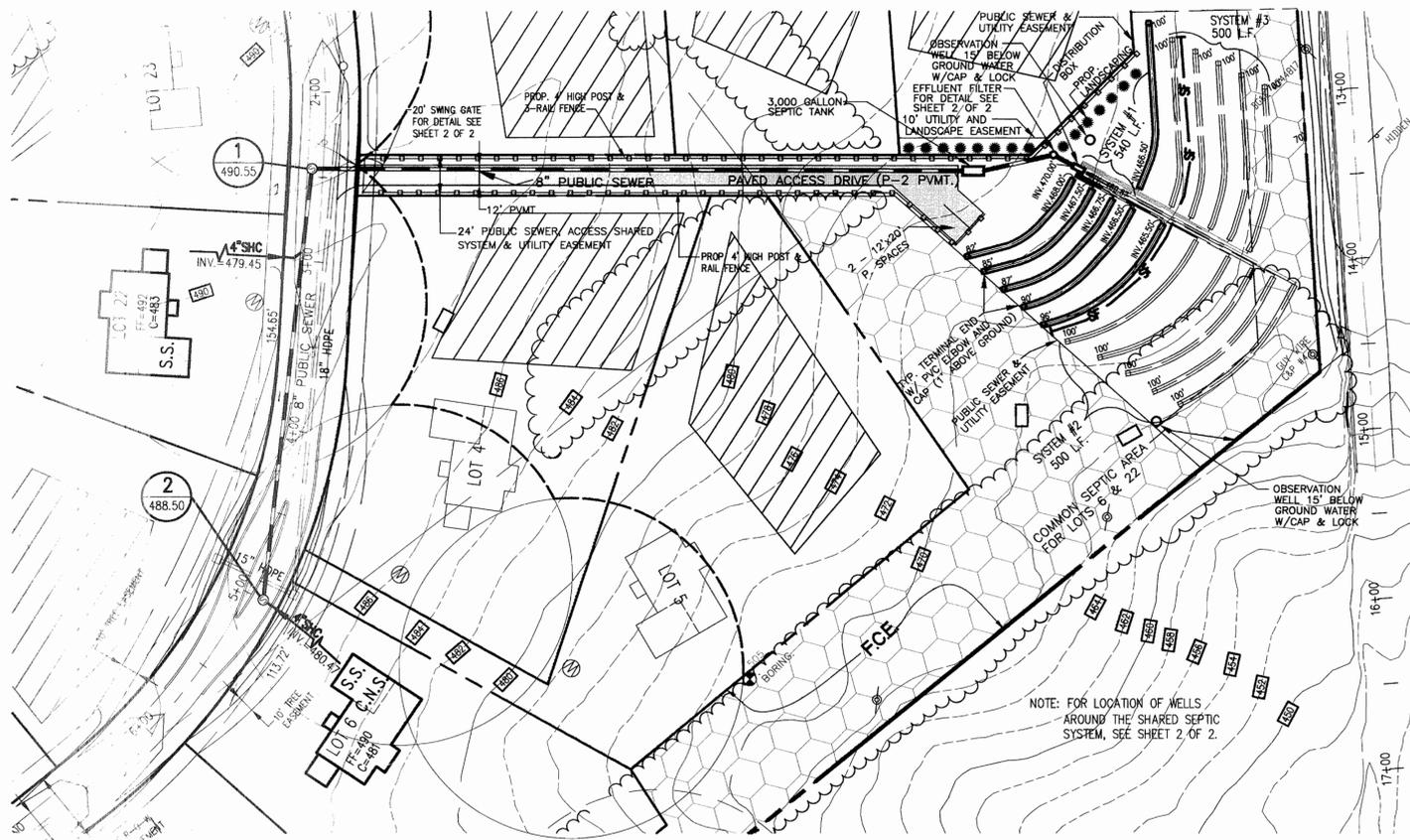
NO.	DATE	DESCRIPTION

TAX MAP NO. 41
GRID 2, 3, 8 AND 9

SCALE: AS SHOWN
SHEET NO. 2 OF 2

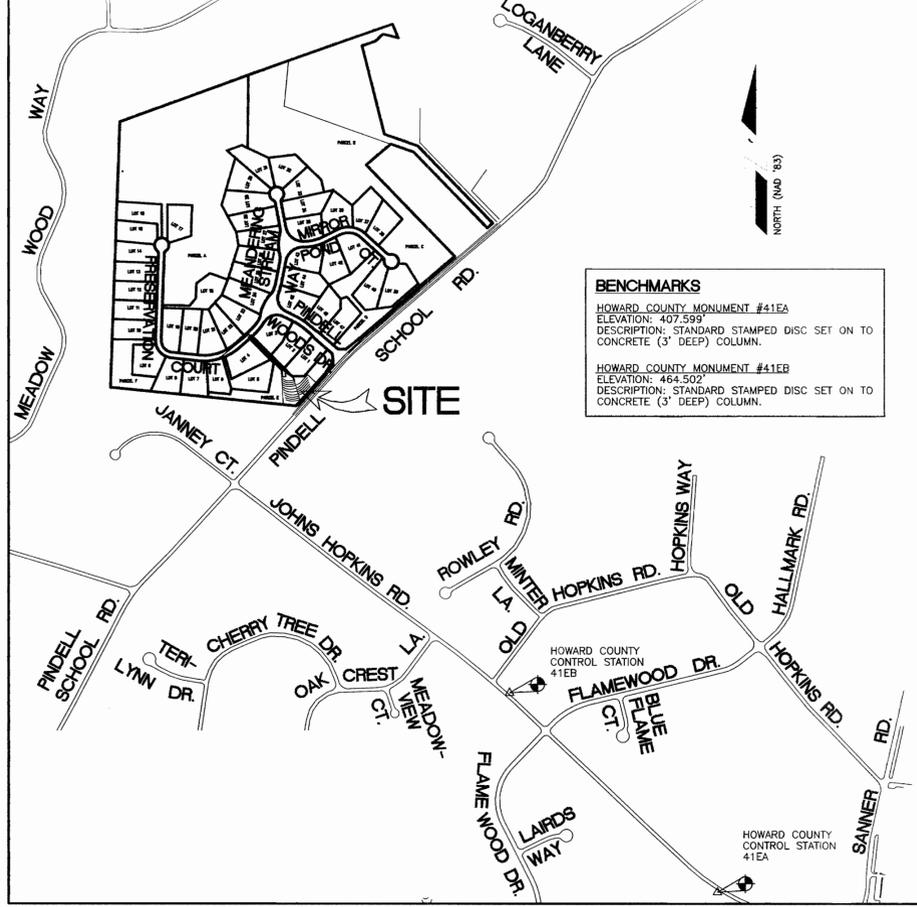
CONTRACT NO. 50-3952-D

STATE OF MARYLAND PROFESSIONAL ENGINEER



- ### GENERAL NOTES
- PART 1 - GENERAL**
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SEWER LINES 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.
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL WELLS BY 2'-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 MONEY OWED TO 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 AT THE LOCATION OF THE TEST PIT. A NOTE OF 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.
 - 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 AND STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - 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 BORING/JACKING OPERATION IN COUNTY ROADS OF LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL FOR THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.14(c) OF THE HOWARD COUNTY CODE.
- PART 2 - SEWER**
- ALL SEWER MAINS SHALL BE DIP AND PVC UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITH 2'-0" OF EXTERIOR MANHOLE WALL.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - HOUSE(S) WITH THE SYMBOL C.N.S. INDICATES THAT CELLAR CANNOT BE SERVED.

- ### NOTE:
- A SEPTIC FEE IN THE AMOUNT OF \$180 PER LOT SERVED 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 CONSTRUCTION OR AS REQUIRED BY THE PLUMBING INSPECTOR.
 - SEPTIC TANKS SHALL BE VACUUM TESTED ON-SITE BY THE MANUFACTURER. SEPTIC TANK SHOP DRAWINGS FROM THE MANUFACTURER SHOULD BE SUBMITTED 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 IS 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.



VICINITY MAP
SCALE: 1" = 600'

3,000 GALLON SEPTIC TANK DATA

SHARED SEPTIC AREA	TANK ELEVATION	INVERT ELEVATION	TANK COORDINATES	MANHOLE RIM ELEVATION	REMARK
	472.06 TOP	470.81	N 548453.4605 E 1336248.2853	474.88	
	466.56 BOT	470.56	N 548444.0384 E 1336257.6012	474.56	

SEWER MANHOLE LOCATION DATA

MH	LOCATION	
1	N 548722.0229	E 1335982.8057
2	N 548563.3117	E 1335783.2167

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
MANHOLES	2 EA.			
4" SEWER	54 L.F.			
8" SEWER	633 L.F.			
3000 GALLON SEPTIC TANK	1 EA.			
DISTRIBUTION BOX	1 EA.			
LEACHING FIELD	22,280 S.F.			
DIAL-A-FLOW LEVELERS	6 EA.			
ZABEL A-100 H.P. FILTER I	1 EA.			

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

SHEET INDEX

NO.	DESCRIPTION
1	PLAN AND PROFILE OF COMMON SEPTIC AREA
2	DETAILS

TRENCH REQUIREMENTS

*USE 5 BEDROOM/HOUSE.
750 GPD PER HOUSE
750 GPD/HOUSE X 2 HOUSE = 1500 GPD
1500 GPD/1 GPM/SQ.FT. = 1500 SQ. FT. EFFECTIVE AREA
1500 SQ. FT./3 FT. WIDE TRENCH = 500 L.F. (REQUIRED)
PROVIDED: 1,540 L.F.
SEPTIC TANK SIZED FOR 1500 GALLON/HSE

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. CONTRACTOR SERVICES	850-4820
BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL	787-9088
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO	795-1390
HOWARD COUNTY DEPT. OF PUBLIC WORKS	
BUREAU OF UTILITIES	313-4800
HO CO. ENVIRONMENTAL HEALTH DPT	410-313-2840

P:\PINEDLL Shared-Septic\SEPTIC1.dwg Mon Mar 12 12:47:12 2001

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

Jim Hyman 3/21/01
U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE

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

Robert A. Selig 3/21/01
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, LOTS 1-5, 7-21, AND 23-47; AND FOR PRIVATE WATER AND A SHARED SEWERAGE SYSTEM FOR LOTS 6 & 22.

HOWARD COUNTY HEALTH DEPARTMENT

Diana M. Matusz 3/21/01
HOWARD COUNTY HEALTH OFFICER



AMERICAN LAND DEVELOPMENT AND ENGINEERING INC.
10749 BIRMINGHAM WY.
WOODSTOCK, MD 21163
TEL (410) 465-7903
FAX (410) 465-3845

DES.: DW/AG
DRN.: DA/JC
CHK.: DW/JL
DATE: 2-21-01

PLAN AND PROFILE OF SHARED SEPTIC SYSTEM

TAX MAP NO. 41
GRID 2, 3, 8 AND 9

PINEDLL WOODS
LOTS 1 THRU 47 AND PRESERVATION PARCELS A THRU F
5th ELECTION DISTRICT

SCALE: 1" = 50'
SHEET NO. 1 OF 2

CONTRACT NO. 50-3952-D

F-01-89