

WATER & SEWER CODE  
 FOR COUNTY USE ONLY  
 WATER No.: C-01  
 SEWER No.: 12-27013  
 WATER ZONE: 1  
 WATER TEST GRADIENT: .750

TYPE OF BUILDING: RESIDENTIAL SINGLE FAMILY DETACHED  
 NUMBER OF LOTS: 3 (1 BUILDABLE)  
 NO. OF WATER HOUSE CONNECTIONS: 3  
 NO. OF SEWER HOUSE CONNECTIONS: 3  
 DRAINAGE AREA:  
 TREATMENT PLANT:

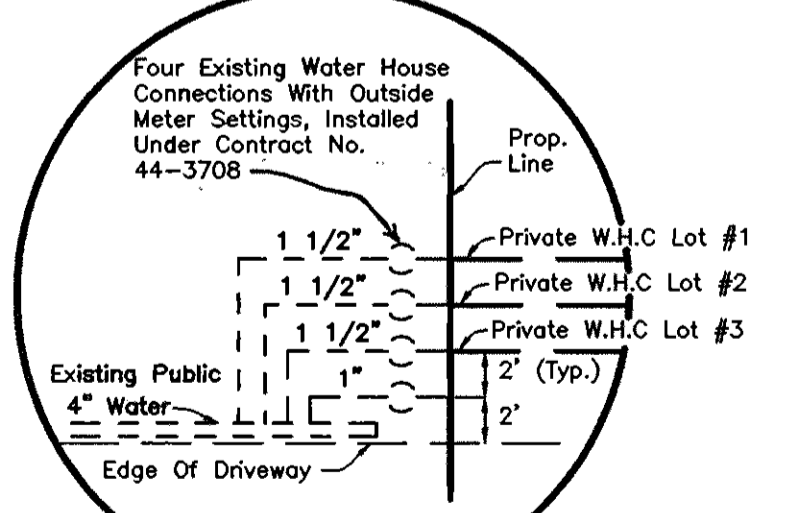
**GENERAL NOTES**

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED 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. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 STATE HIGHWAY ADMINISTRATION - 531 5533  
 BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICES - 850-4320  
 BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068  
 MISS UTILITY - 1-800-257-7777  
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900  
 TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT.  
 CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.  
 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.  
 T.B. DENOTES TEST BORING.  
 MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.  
 ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.  
 WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.  
 TOPS OF ALL WATER LINES TO HAVE A MINIMUM OF 3 1/2" COVER UNLESS OTHERWISE NOTED.  
 THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.  
 THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

**PLAN**  
 SCALE: 1"=50'

**QUANTITIES**

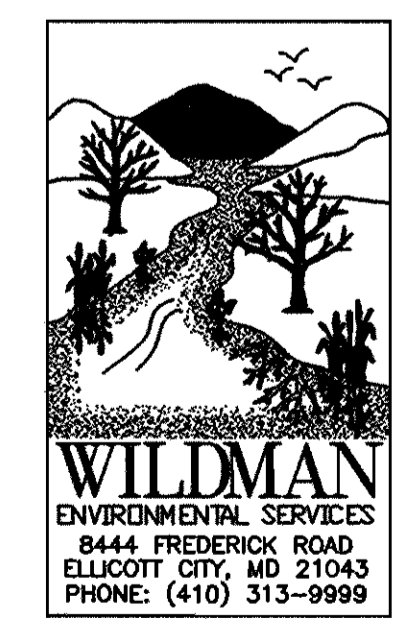
ITEM	ESTIMATED QUANTITIES	AS-BUILT	
		TYPE	SUPPLIER
8" SEWER	733 L.F.		
SEWER MANHOLES	4 EACH		
4" SHC	28 L.F.		



**DETAIL HOUSE CONNECTIONS**  
 NOT TO SCALE

Reviewed for HOWARD S.C.D.  
 Home  
 and meets Technical Requirements  
 Signature: [Signature] Date: 3-1-99  
 Signature: [Signature] Date: 3-1-99  
 USDA, NATURAL RESOURCES CONSV. SERVICE  
 (F-99-77)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: [Signature] Date: 4-1-99  
 Howard S.C.D.



**Owner/Developer**  
 MR GARTH V. DAVIS AND  
 KAREN S. DAVIS  
 4877 MORGAN CT.  
 ELLICOTT CITY, MD. 21043

CONTRACT NO.  
 DAVIS PROPERTY WATER & SEWER PLAN  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Robert M. Beaman  
 CHIEF, BUREAU OF UTILITIES  
 3-30-99 DATE

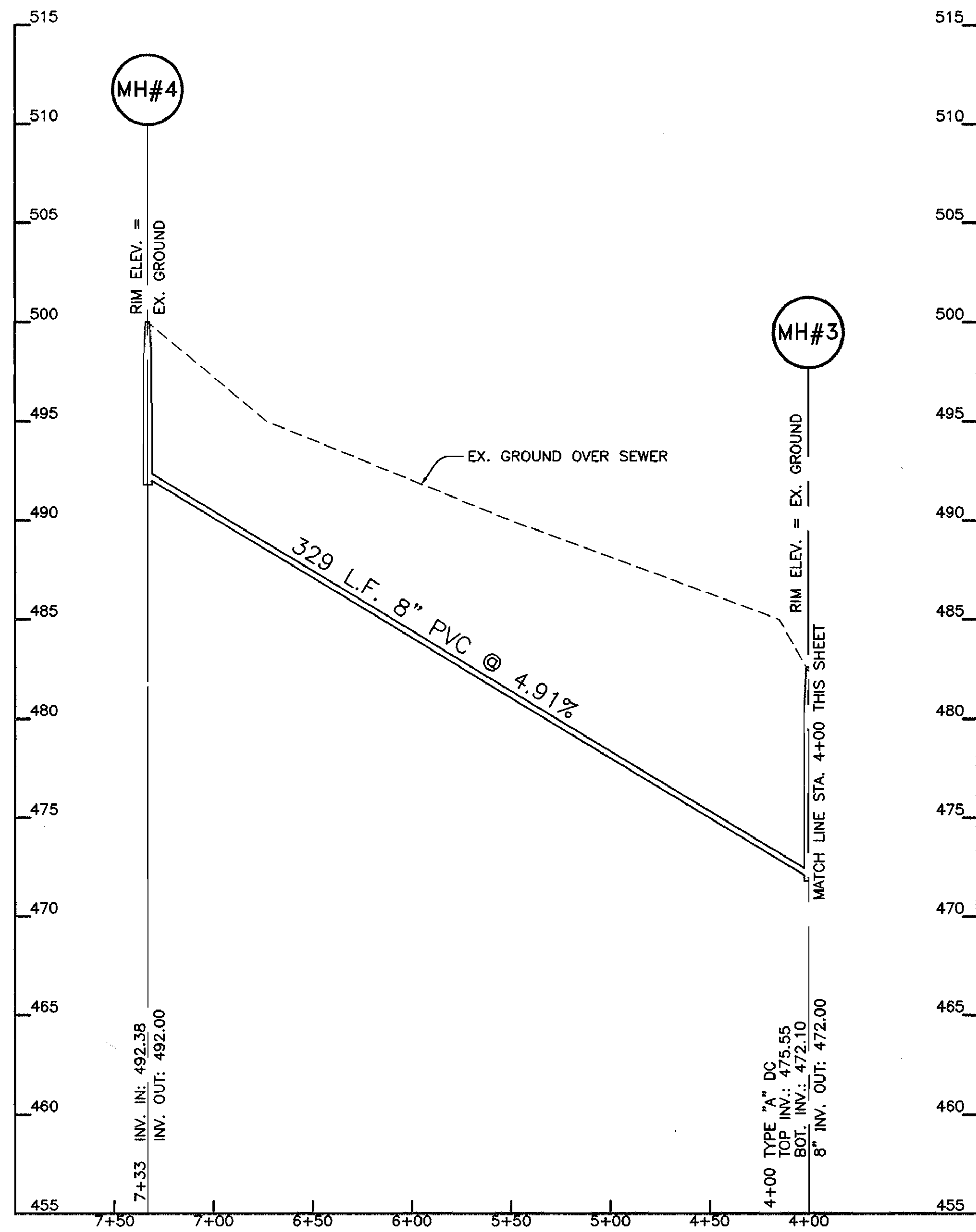
DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 [Signature]  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 3/31/99 DATE

ENGINEER LIC.#17788  
 Michael J. Kay

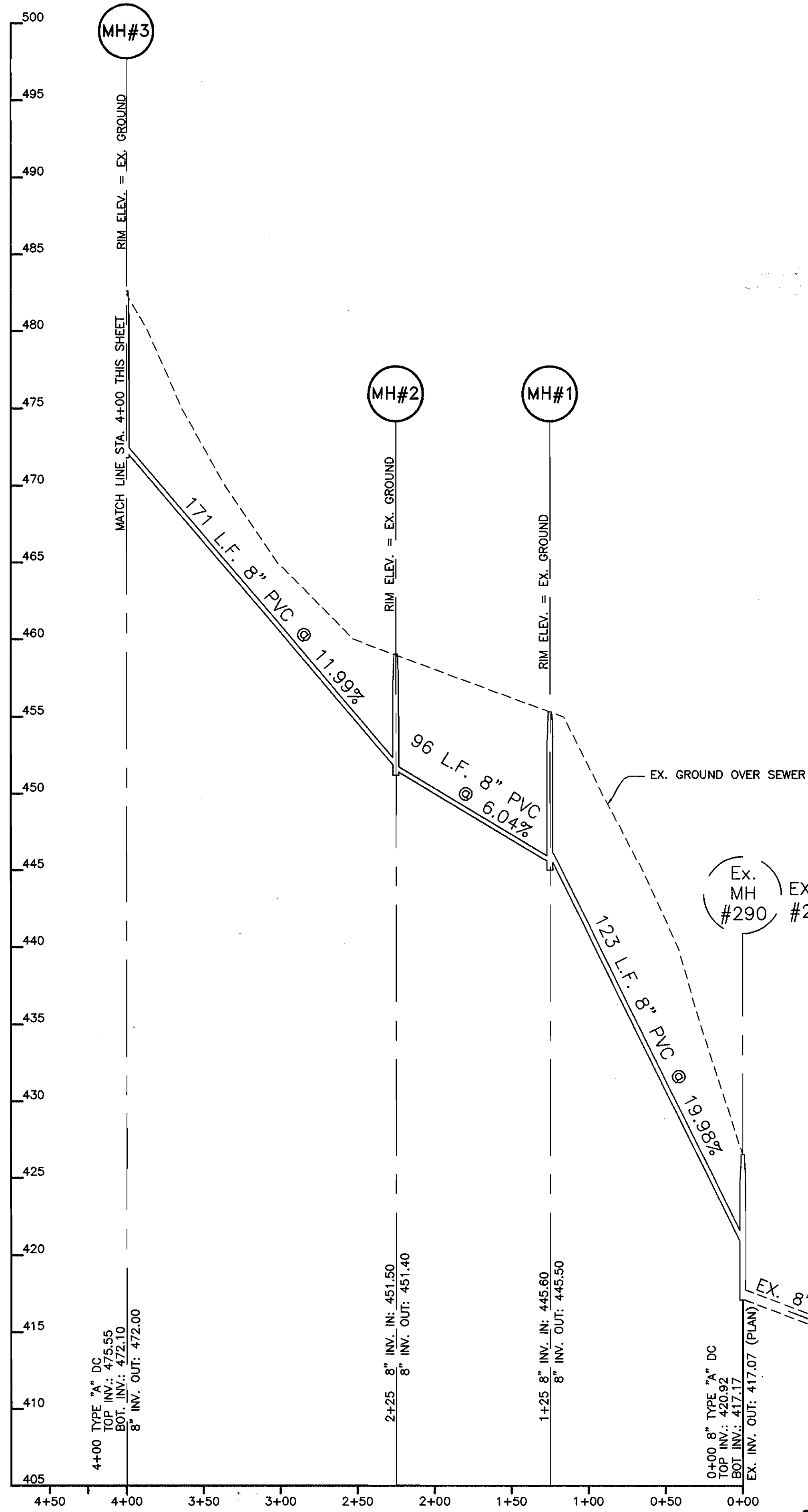
DESIGNED BY: MJE  
 DRAWN BY: JEP  
 CHECKED BY: RBW  
 DATE: MARCH 22, 1999 BY NO. REVISION DATE FILE NAME: g:\drawings\ Davis\wv\dw\dw9901

**WATER & SEWER PLAN**  
 800' SCALE MAP NO. 31 BLOCK NO. 2 & E  
 JOB NO.  
 CONTRACT NO. 10-3760-D

**GARTH AND KAREN DAVIS PROPERTY**  
 CONTRACT NO. 10-3760-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 1 OF 2



**PROFILE**  
1"=50' HORIZ. 1"=5' VERT.



**PROFILE**  
1"=50' HORIZ. 1"=5' VERT.

**GENERAL NOTES  
AND  
SEQUENCE OF CONSTRUCTION**

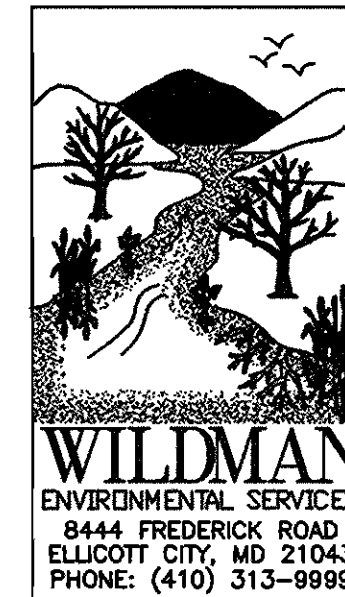
1. OBTAIN THE REQUIRED GRADING PERMIT
2. NOTIFY HIS UTILITY AGENCIES BEFORE ANY WORK (1-800-297-7777) NOTIFY HOWARD COUNTY CONSTRUCTION/INSPECTION DIVISION 24 HOURS BEFORE STARTING WORK (410) 313-1870
3. INSTALL THE REQUIRED SEDIMENT + EROSION CONTROL AS INDICATED ON PLAN.
4. CLEAR AND GRUB AS NEEDED; AS REQUIRED FOR EXCAVATION & INSTALLATION OF SEWER MAIN, + ONLY WITHIN DESIGNATED UTILITY BASEMENT.
5. NOTE: THE LENGTH OF OPEN SEWER MAIN TRENCH SHALL BE LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH WILL BE BACKFILLED AND STABILIZED WITHIN ONE (1) WORKING DAY, WHICH EVER IS SHORTER.
6. CONSTRUCT THE WATER AND SEWER MAIN AND APPURTENANCES (16 FEET).
7. STABILIZE SEED AND MASH ALL DISTURBED AREAS IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS SET FORTH IN THE 1994 MARYLAND STANDARDS + SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. THIS PLAN AND ASSOCIATED DETAILS COMPLY WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME 4.

EXISTING MANHOLE #290 (CONTRACT No. 420-S)

EX. 8" SEWER CONTRACT No. 420-S

Reviewed for HOWARD S.C.D. and meets Technical Requirements Chief Engineer Date 4-1-99 Signature [Signature] USDA, NATURAL RESOURCES CONSV. SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Approved [Signature] Date 4-1-99



Owner/Developer MR GARTH V. DAVIS AND KAREN S. DAVIS 4877 MORGAN CT. ELLICOTT CITY, MD. 21043

GP-99-173

CONTRACT NO. DAVIS PROPERTY WATER & SEWER PLAN HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

ENGINEER LIC.#17788

DESIGNED BY:	MJK
DRAWN BY:	JEP
CHECKED BY:	RBW
DATE:	MARCH 22, 1999
BY NO.	REVISION
DATE	

**WATER & SEWER  
PROFILES**

600' SCALE MAP NO. 31 BLOCK NO. 2 + 8  
JOB NO.  
FILE NAME: g:\drawings\davis\w\dw9902

**GARTH AND KAREN DAVIS PROPERTY**

SCALE AS SHOWN

CONTRACT NO. 10-3760-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SHEET 2 OF 2

Robert M. Beisinger 3-30-99  
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 3/31/99  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Michael J. Kay