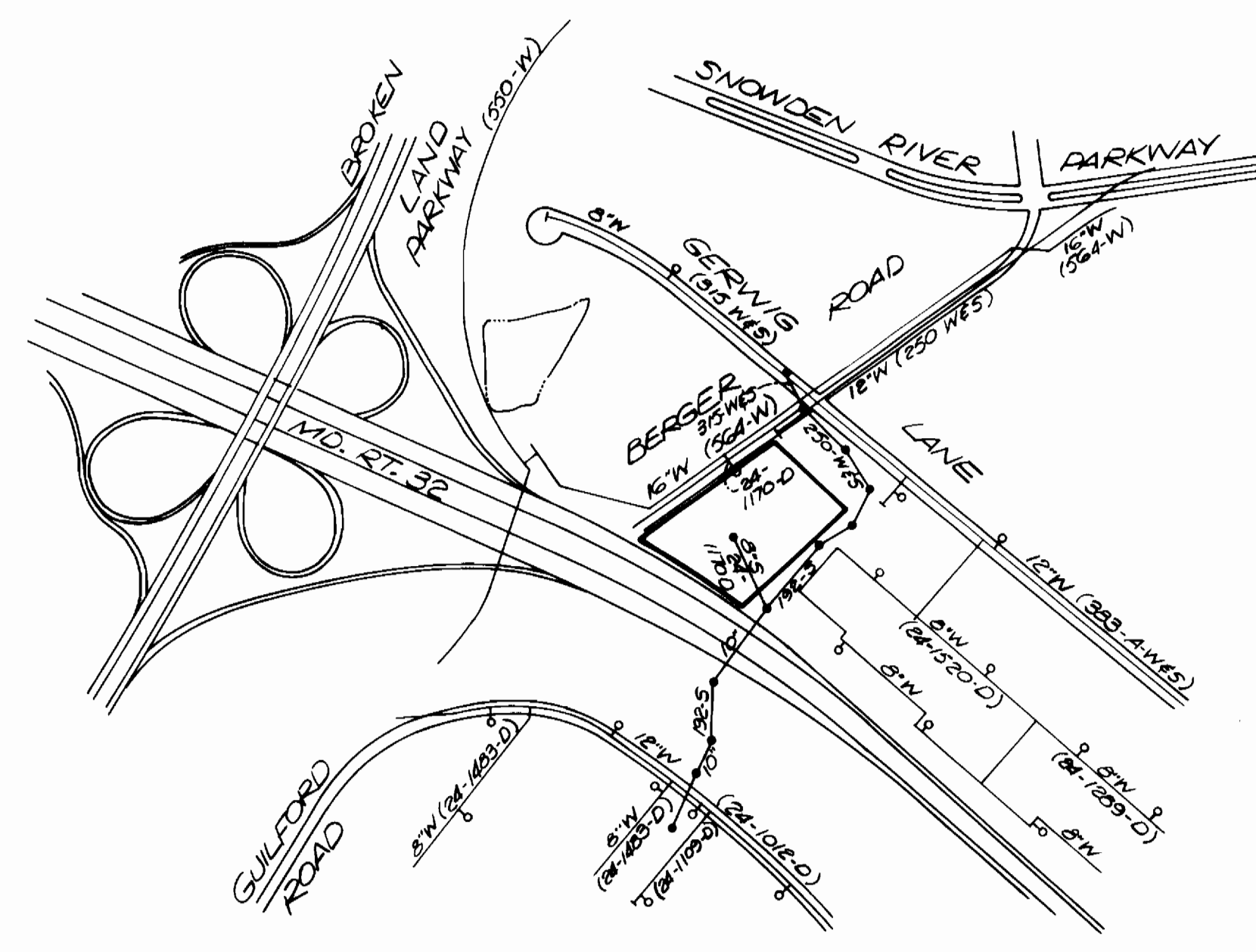


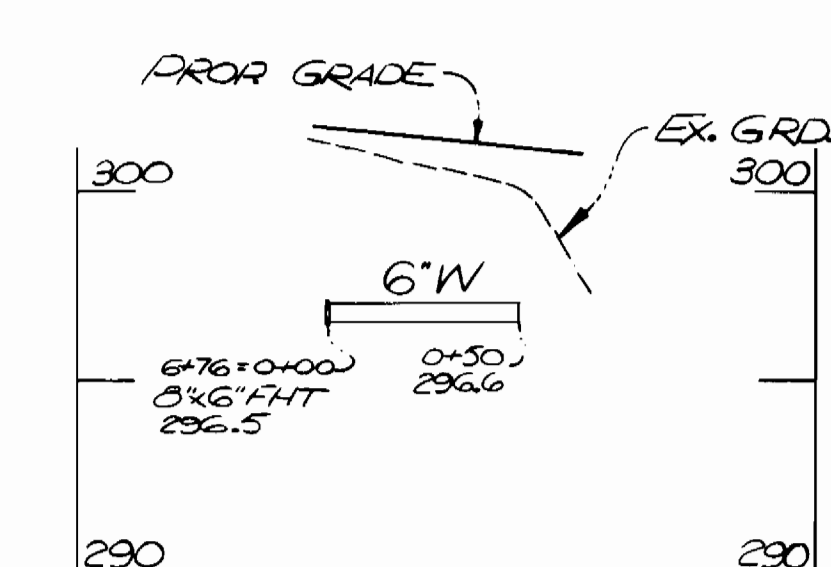
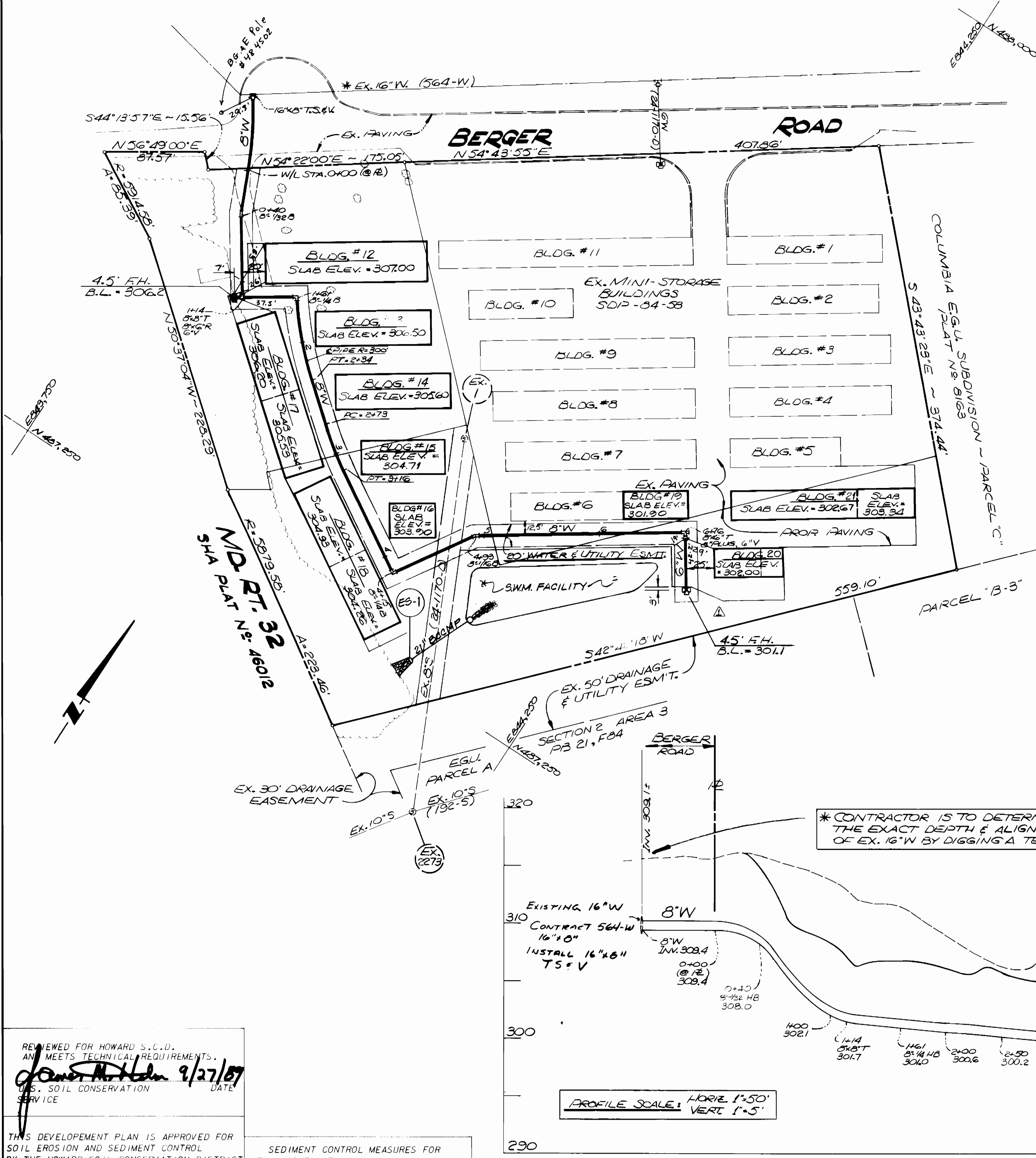
ITEM	QTY	AS BUILT	MATERIAL/SUPPLIER
6" WATER MAIN	740		DIP CL 52 A P
16" x 8" T.S. EV.	1		MJ HG 15
8" x 8" T	1		SBDI MJ
8" x 8" T	1		SBDI MJ
8" x 8" B	1		SBDI MJ
8" x 8" R	1		SBDI MJ
6" V	2		MJ RS
FIRE HYDRANT	2		MJ
6" PLUG	1		MJ
6" WATER MAIN	70	65	DIP CL 52
8" x 11/8" B	1		MJ



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

WATER & SEWER CODES (FOR COUNTY USE)  
WATER EOG  
SEWER N/A

DRAINAGE AREA PATUXENT  
TYPE OF BUILDINGS STORAGE  
NO. OF WHC'S  
NO. OF SHC'S



- 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 SHOWN ARE INVERT ELEVATIONS.
  - CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
  - 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. 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 UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
    - STATE HIGHWAY ADMINISTRATION - 531-5533
    - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICE 561-2585
    - BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL 234-5621
    - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING 298-9013
    - MISS UTILITY - 1-559-0100
    - COLONIAL PIPELINE CO. - 795-1390
    - BUREAU OF UTILITIES - 992-2366
    - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
  - 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.
  - ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
  - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
  - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
  - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
  - ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
  - EXTEND PIPE AS NECESSARY TO INSTALL PLUG FOR BLOCKING, WHERE WATER MAINS END WITH VALVES.
  - ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.P. CLASS 2400 OR 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.
  - ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FEB., 1989.
  - STRAW BALE DIKES AND SILT FENCES ARE INTERCHANGEABLE.
  - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C-153, DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
  - ALL SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*James M. Holden* 9/27/89  
S.C.D. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John K. Roberts* 9/26/89  
HOWARD S.C.D.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATION, AND SITE PLANS SDP-89-257

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

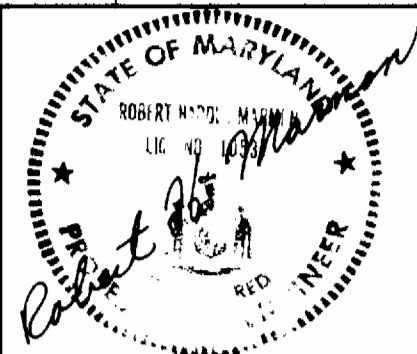
*James M. Holden* 9-28-89  
DIRECTOR OF PUBLIC WORKS

*John K. Roberts* 9-21-89  
CHIEF, BUREAU OF UTILITIES

*James M. Holden* 9-27-89  
CHIEF, BUREAU OF ENGINEERING

*John K. Roberts* 9-27-89  
CHIEF, LAND DEVELOPMENT DIVISION

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS-SURVEYORS-PHOTOGRAMMETRISTS  
**GREENHORNE & O'MARA, INC.**  
113 WEST ROAD, SUITE 203  
BALTIMORE, MD. 21204  
PHONE (301) 296-4100



DES: JDP	
DRN: JDP/MS	
CHK: RHM	
DATE: 8/89	
BY NO.	REVISIONS
KRM	REVISE PROP. FH. LOCATION
	7-23-89

**PLAN & PROFILE FOR WATER MAIN EXTENSION**

60' SCALE MAP NO. 42

BLOCK NO. 9

**THE VAULT - COLUMBIA**  
E.G.U. SECTION 2, AREA B, PARCEL D  
CONTRACT NO. 44-1981-D  
6TH ELECTION DISTRICT  
HOWARD CO., MARYLAND

SCALE AS SHOWN

SHEET 1 of 1