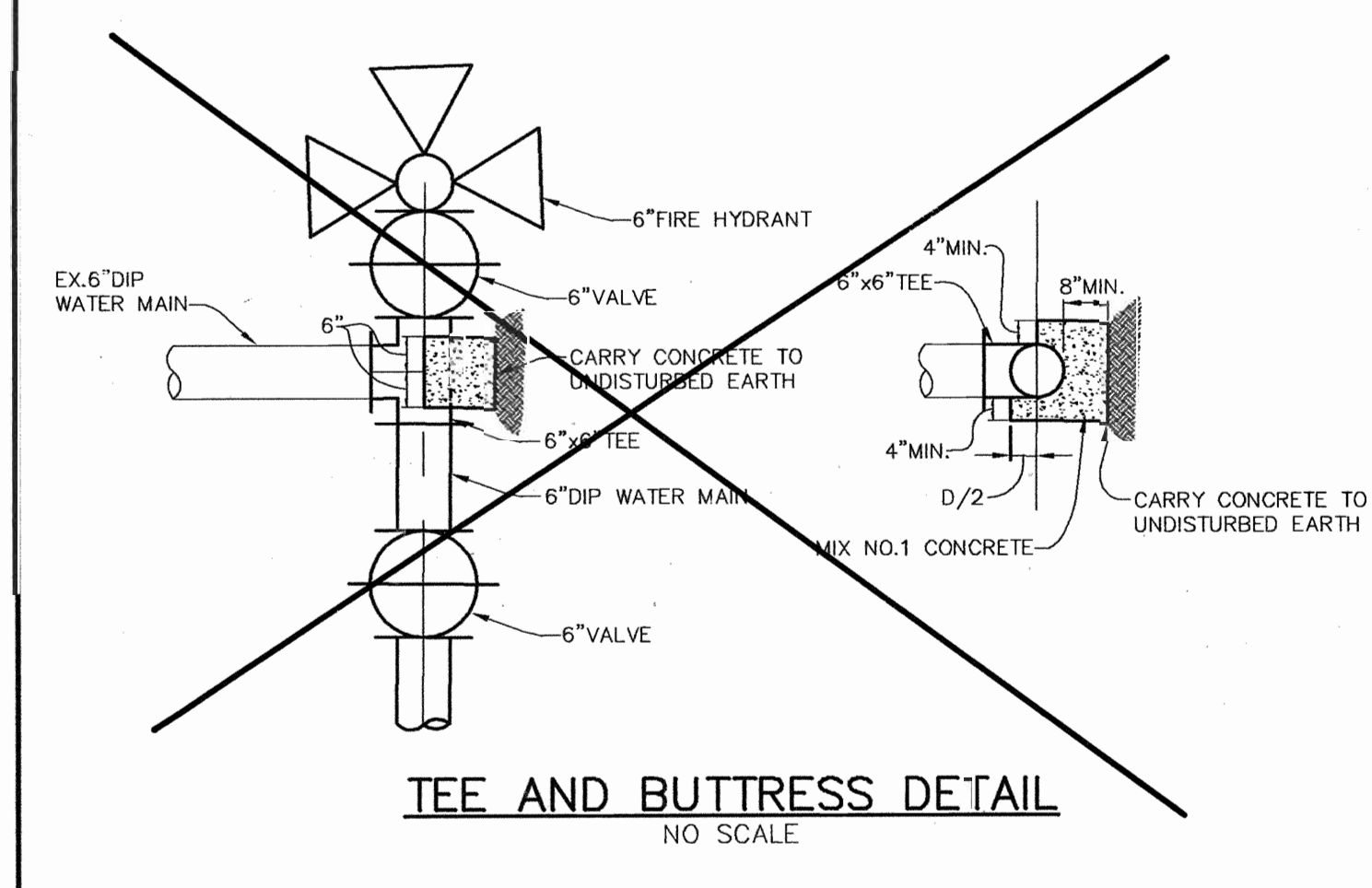


**VICINITY MAP**  
SCALE: 1"=600'



**TEE AND BUTTRESS DETAIL**  
NO SCALE

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
6" x 6" TSV	1 EA.	1 EA.	FORD METER BOX	FORD METER BOX
6" WATER	15 LF	20.25 LF	D.I.P.	U.S. PIPE/HUGHES
6" - 1/4 HB	1 EA.			
FIRE HYDRANTS	1 EA.	1 EA.	KENNEDY	KENNEDY
6" VALVES	2 EA.	2 EA.	GATE	KENNEDY
6" x 6" TEE	1 EA.	1 EA.	DUCTILE	TYLER
NAME OF UTILITY CONTRACTOR: <b>RICHARD D. SCHAFER COMPANY, INC.</b>				
Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications.		CHECKBOX		
		AS-BUILT DATE: <b>NOV. 22, '02</b>		
		SURVEY AND DRAFTING DIVISION		

**SEDIMENT CONTROL NOTES**

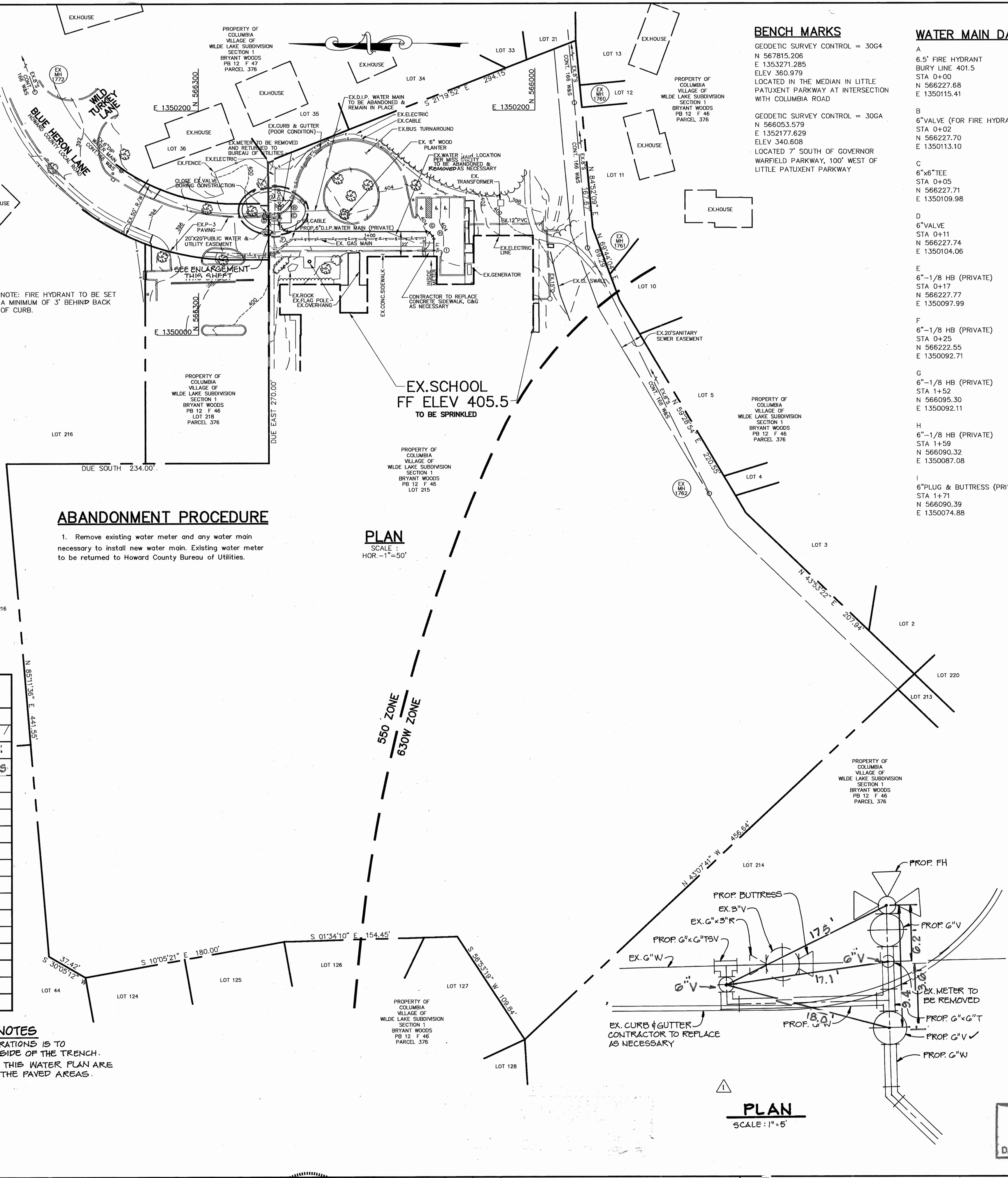
- SPoil from trenching operations is to be placed on the uphill side of the trench.
- ALL OPERATIONS INVOLVING THIS WATER PLAN ARE TO BE CARRIED OUT WITHIN THE PAVED AREAS.

Review for Howard Soil Conservation District and meets technical requirements.

*Jim Meyer* 10/25/02  
NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation Distt.

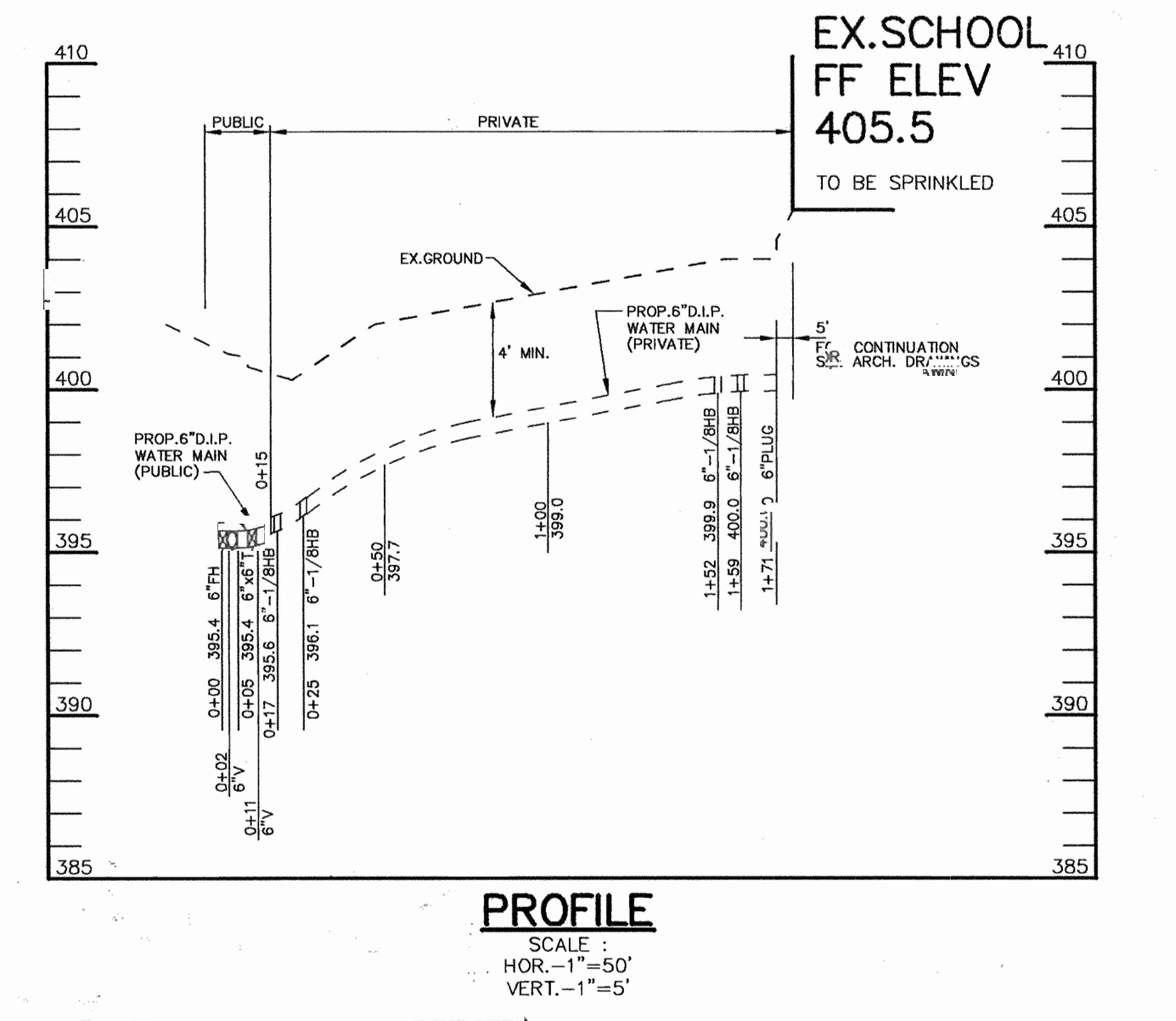
*John R. Robertson* 10/25/02  
HOWARD SOIL CONSERVATION DISTRICT DATE



**ABANDONMENT PROCEDURE**

- Remove existing water meter and any water main necessary to install new water main. Existing water meter to be returned to Howard County Bureau of Utilities.

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



**PROFILE**  
SCALE: 1"=5' VERT., 1"=50' HOR.

**AS BUILT**  
DATE: NOV. 22, 2002

- BENCH MARKS**
- GEODETIC SURVEY CONTROL = 30G4  
N 567815.206  
E 1353271.285  
ELEV 360.979
- LOCATED IN THE MEDIAN IN LITTLE PATUXENT PARKWAY AT INTERSECTION WITH COLUMBIA ROAD
- GEODETIC SURVEY CONTROL = 30GA  
N 566053.579  
E 1352177.629  
ELEV 340.608
- LOCATED 7' SOUTH OF GOVERNOR WARFIELD PARKWAY, 100' WEST OF LITTLE PATUXENT PARKWAY

- WATER MAIN DATA**
- A  
6.5" FIRE HYDRANT  
BURY LINE 401.5  
STA 0+00  
N 566227.68  
E 1350115.41
- B  
6" VALVE (FOR FIRE HYDRANT)  
STA 0+02  
N 566227.70  
E 1350113.10
- C  
6" x 6" TEE  
STA 0+05  
N 566227.71  
E 1350109.98
- D  
6" VALVE  
STA 0+11  
N 566227.74  
E 1350104.06
- E  
6" - 1/8 HB (PRIVATE)  
STA 0+17  
N 566227.77  
E 1350097.99
- F  
6" - 1/8 HB (PRIVATE)  
STA 0+25  
N 566222.55  
E 1350092.71
- G  
6" - 1/8 HB (PRIVATE)  
STA 1+52  
N 566095.30  
E 1350092.11
- H  
6" - 1/8 HB (PRIVATE)  
STA 1+59  
N 566090.32  
E 1350087.08
- I  
6" PLUG & BUTTRESS (PRIVATE)  
STA 1+71  
N 566090.39  
E 1350074.88

- 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 Coordinate System, NAD 83/91.
  - 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 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles 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 Plans 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 shown by the symbol at the location of the test pit. A note or notes containing the results of the test 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.
  - The contractor shall notify the following utility companies at least five working days before starting work shown on these plans:  
AT&T 1-800-252-1133  
BGE (Contractor Services) 410-350-4320  
BGE (Underground Damage Control) 410-707-0668  
Bureau of Utilities 410-313-4900  
Colonial Pipeline Co. 415-792-1390  
Miss Utility 1-800-252-7777  
State Highway Administration 410-531-5533  
Verizon 1-800-743-0033 / 410-224-9210
  - Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
  - The 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.
  - The contractor shall notify the Bureau of Highways, Howard County, at 410-313-7450 at least five working days before 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 DPW requirements per Section 18.114(a) of the Howard County Code.

**WATER NOTES**

- All water mains shall be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains shall have a minimum of 3'-6" of 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 elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	Patton Harris Rust & Associates, PC Engineers, Surveyors, Planners, Landscape Architects. <b>PHRA</b> 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	DES: C.J.R. DRN: DAM CHK: C.J.R. DATE: 9/19/02	CEI <input type="checkbox"/> "AS-BUILT" DAM <input checked="" type="checkbox"/> REVISED PUBLIC WATER MAIN BY NO. REVISION DATE	600' SCALE MAP NO. 30 BLOCK NO. 19	<b>BRYANT WOODS ELEMENTARY SCHOOL</b> 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 44-4059-D	SCALE AS SHOWN SHEET 1 OF 1
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