

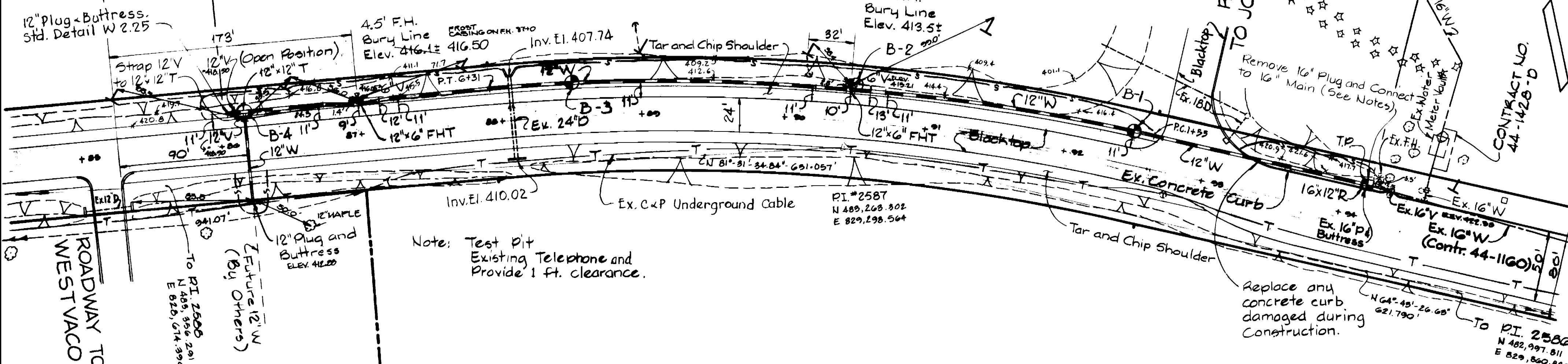
**BENCH MARKS**

H.C. Monument # 2139004 Elev. 407.930  
 Concrete Monument SE. corner Int. Johns Hopkins Road and Route 29.  
 H.C. Monument # 2139006 Elev. 407.980  
 Concrete Monument SW. corner Int. Johns Hopkins Rd. and Old Columbia Road.

**JOHNS HOPKINS UNIVERSITY  
 APPLIED PHYSICS LABORATORY**

Note: Water Service was Provided Under Contract 44-1160

**JOHNS HOPKINS ROAD**



Note: Test Pit Existing Telephone and Provide 1 ft. clearance.

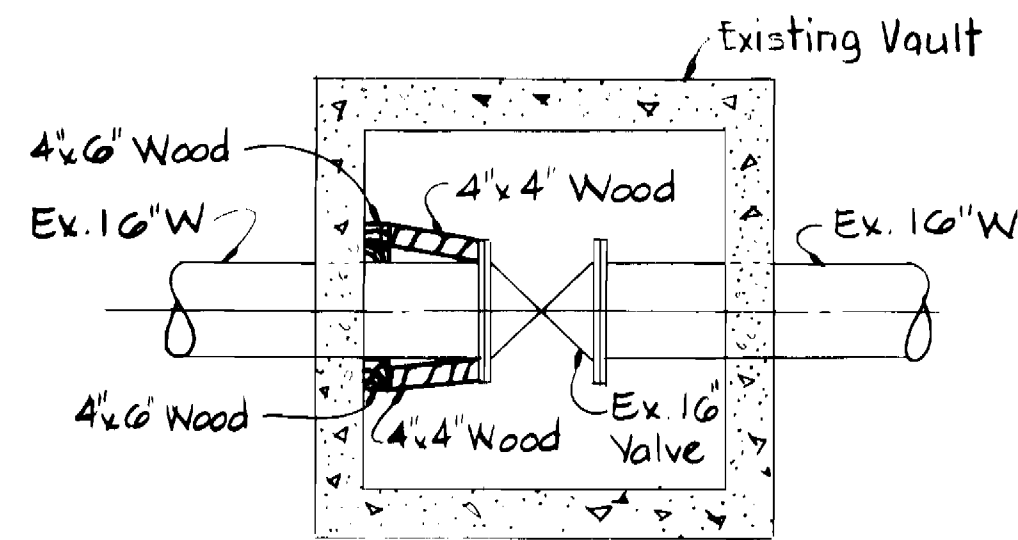
Replace and concrete curb damaged during construction.

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

MILDRED B. PRICE ET AL  
 146/76  
 P.128

Note: This property is not in the Metropolitan District. Water Service is not to be provided.

WESTVACO CORPORATION  
 414/11  
 P.300



**PLAN**

**TEMPORARY BLOCKING DETAIL**  
 Scale: 3/8"=1'-0"

**RESTORATION SCHEDULE**

- Johns Hopkins Road -
- W Sta. 0+00 to 0+80 - Top Soil = Sod.
- 0+80 to 0+90 - Replace Concrete Curb.
- 0+90 to 1+50 - Replace Bituminous Concrete Paving.
- 0+90 through 8+18 - Top Soil = Sod.
- Roadway to Westvaco -
- W Sta. 0+00 to 0+10 - Replace Tar & Chip Shoulder.
- 0+10 to 0+34 - Replace Bituminous Concrete Paving.
- 0+34 to 0+44 - Replace Tar & Chip Shoulder.
- 0+44 to 0+64 - Top Soil = Sod.

**CONNECTION NOTES:**

1. 16" Buttress is anchorage type shown in Standard Detail W 2.25.
2. 16" Valve is in Standard Vault.
3. Provide temporary Timber Blocking from flange of 16" Valve to west wall of valve vault.
4. Connection Sequence shall be:
  - a- Construct new Main, test and sterilize.
  - b- Provide temporary Blocking
  - c- Close 16" Valve.
  - d- Remove 16" Plug and Connect.
  - e- Charge new Main and examine all Joints not tested.
  - f- Place new Main in service and remove temporary Blocking.

**QUANTITIES**

ITEM	BID	AS BUILT	MATERIAL SUPPLIER
12" Water L.F.	880		
6" Water L.F.	20		
12" Valve Ea	2		
Fire Hydrant Ea	2		

**VICINITY MAP**

SCALE = 1"=600'

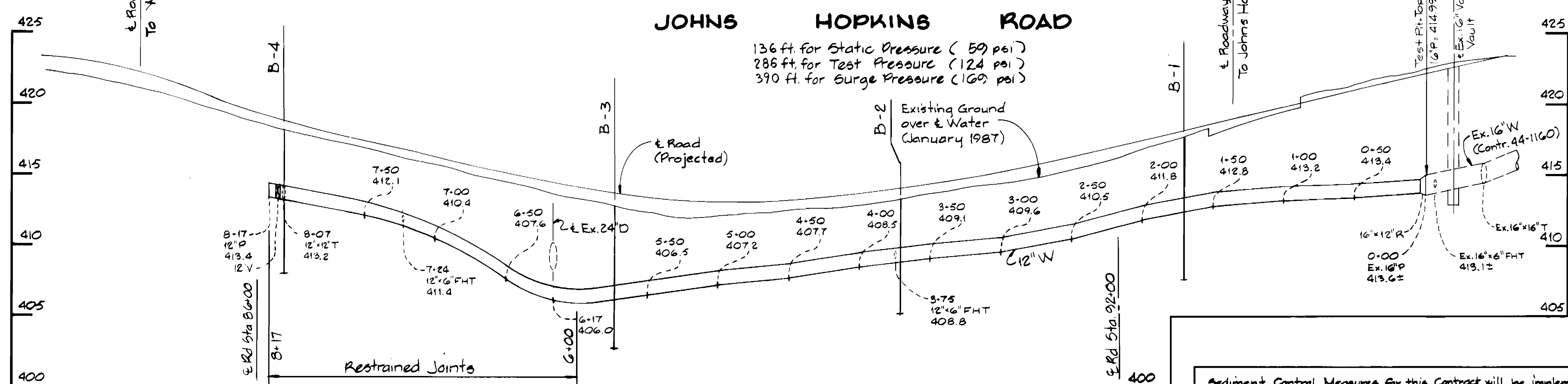
**GENERAL NOTES**

1. 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.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
6. 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.
7. 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 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.
8. 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 SERVICES 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 859-9004
  - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9004
  - MISS UTILITY - 1 - 559-0100
  - COLONIAL PIPELINE CO. - 795-1390
  - C&P TELEPHONE CO. - 1-800-257-7777
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
9. 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.
10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
11. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
12. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
14. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
15. 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 THE STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
17. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
18. ALL W.H.C.'S. SHALL BE 3/4" UNLESS OTHERWISE NOTED.
19. ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
 SIGNATURE: *[Signature]* DATE: 7-23-87  
 U.S. SOIL CONSERVATION SERVICE  
 This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District  
 APPROVED: *[Signature]* DATE: 7-23-87  
 HOWARD CO. ENGINEER

**JOHNS HOPKINS ROAD**

136 ft. for Static Pressure (59 psi)  
 286 ft. for Test Pressure (124 psi)  
 390 ft. for Surge Pressure (169 psi)



**PROFILES** Scale: Horizontal 1"=50' Vertical 1"=5'

Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the Standard Specifications and Read Construction Drawings F

<p>DEPARTMENT OF PUBLIC WORKS                  HOWARD COUNTY, MARYLAND</p> <p>Director of Public Works - DATE: 7/28/87                  Chief - Bureau of Utilities - DATE: 7/28/87</p>	<p>WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS                  2315 ST PAUL ST                  BALTIMORE, MARYLAND</p>	<p>DES. S.J.                  DRN. O.D.                  CHK. R.B.N.                  DATE: _____</p>	<p>VICINITY MAP                  PLAN &amp; PROFILE                  OF WATER MAINS</p>	<p>JOHNS HOPKINS ROAD                  12" WATER MAIN                  ELECTION DISTRICT NO. 5                  HOWARD COUNTY                  CONTRACT NO. 44-1605</p>	<p>SCALE: AS SHOWN                  SHEET 1 OF 1</p>
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