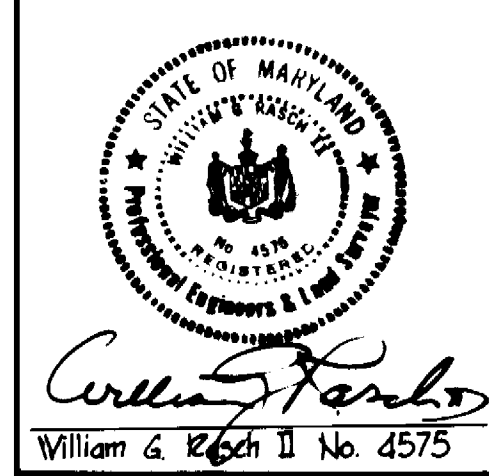


QUANTITIES			
ITEM	ESTIMATED	AS-BUILT	SUPPLIER
6\"/>			

MANHOLE LOCATION SCHEDULE				
NO.	ROAD & STA.	OFFSET	TOP ELEV.	ROAD GRADE
16			306.04	-2.00%
17	4+65	10'	318.54	-2.33%
18	2+90	7'	321.00	-1.88%
19	1+38	7'	323.44	+0.22%

- GENERAL NOTES**
- The approximate locations 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.C.G.S. Datum.
  - All pipe elevations shown are invert elevations.
  - All utilities shall be cleared by a minimum of 6'. All pipes shall be cleared by 2'-0" minimum tunneling as required. Any cost incurred by the Contractor for tunneling and bracing at pipes shall be included in the unit prices bid for construction of water and sewer mains.
  - For materials, construction methods and details not shown on the construction drawings, use Howard County Standard Specifications and Details for Construction.
  - The Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
  - The Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans:
    - State Highway Administration - 531-5533
    - Baltimore Gas and Electric Company - Underground Electric Distribution Customer Service - 680-0123
    - Baltimore Gas and Electric Company - Underground Gas Distribution Customer Service - 685-0123
    - Engineering - "Damage Control" - 235-3621
    - "Miss Utility" - 1-555-0100
    - Chesapeake and Potomac (C&P) Telephone Company - 725-9976
    - American Telephone and Telegraph - Cable Location Division - 555-3553
    - Colonial Pipeline Company - 781-4441
    - Bureau Of Utilities - Howard County - 992-2966
  - Trees shall be protected from damage to the maximum extent. Trees located within the construction strips are not to be removed or damaged by the Contractor.
  - The Contractor shall remove trees, stumps and roots along the lines of excavation as directed by the Engineer. Payment for such removal shall be included in the unit prices bid for construction of sewers and water mains.
  - The Contractor shall place regulation "MEN WORKING" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
  - All water mains shall be C.I.P. or D.I.P. unless otherwise noted.
  - The top of all water mains shall have a minimum of 3'-6" cover unless otherwise noted.
  - Valves adjacent to trees shall be strapped to trees.
  - All fittings shall be blocked with concrete.
  - bury line elevations of fire hydrants shall be set to the 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 to be compacted in accordance with Article 57.01.5(15) of the standard specifications.
  - All water hose connections shall be for an inside meter setting.
  - The Contractor shall not operate any water main valve on the existing system.
  - All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C. or A.C.P. Class 2400 unless otherwise noted.
  - Manholes shown with 12" and 16" walls are brick manholes only.
  - The Contractor shall provide a joint in all sewer mains within 2'-0" of all exterior manhole walls.



**DEPARTMENT OF PUBLIC WORKS**  
**HOWARD COUNTY, MARYLAND**  
 Director of Public Works: *William G. Kelly*  
 Chief Bureau of Utilities: *Robert M. Beisinger*  
 Chief Bureau of Engineering: *William G. Kelly*  
 Chief Land Development: *William G. Kelly*

**PURDUM & JESCHKE**  
 ENGINEERS  
 1023 N. CALVERT ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 24-1077D

VICINITY MAP AND  
 PLAN OF WATER & SEWER MAINS

**HERITAGE WOODS**  
 SECTION I AREA I  
 WATER AND SEWER MAINS PHASE II  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

DRAWING NO. 1 OF 1  
 SCALE AS SHOWN  
 Designed: REP  
 Drafted: RAZ  
 Checked: REP