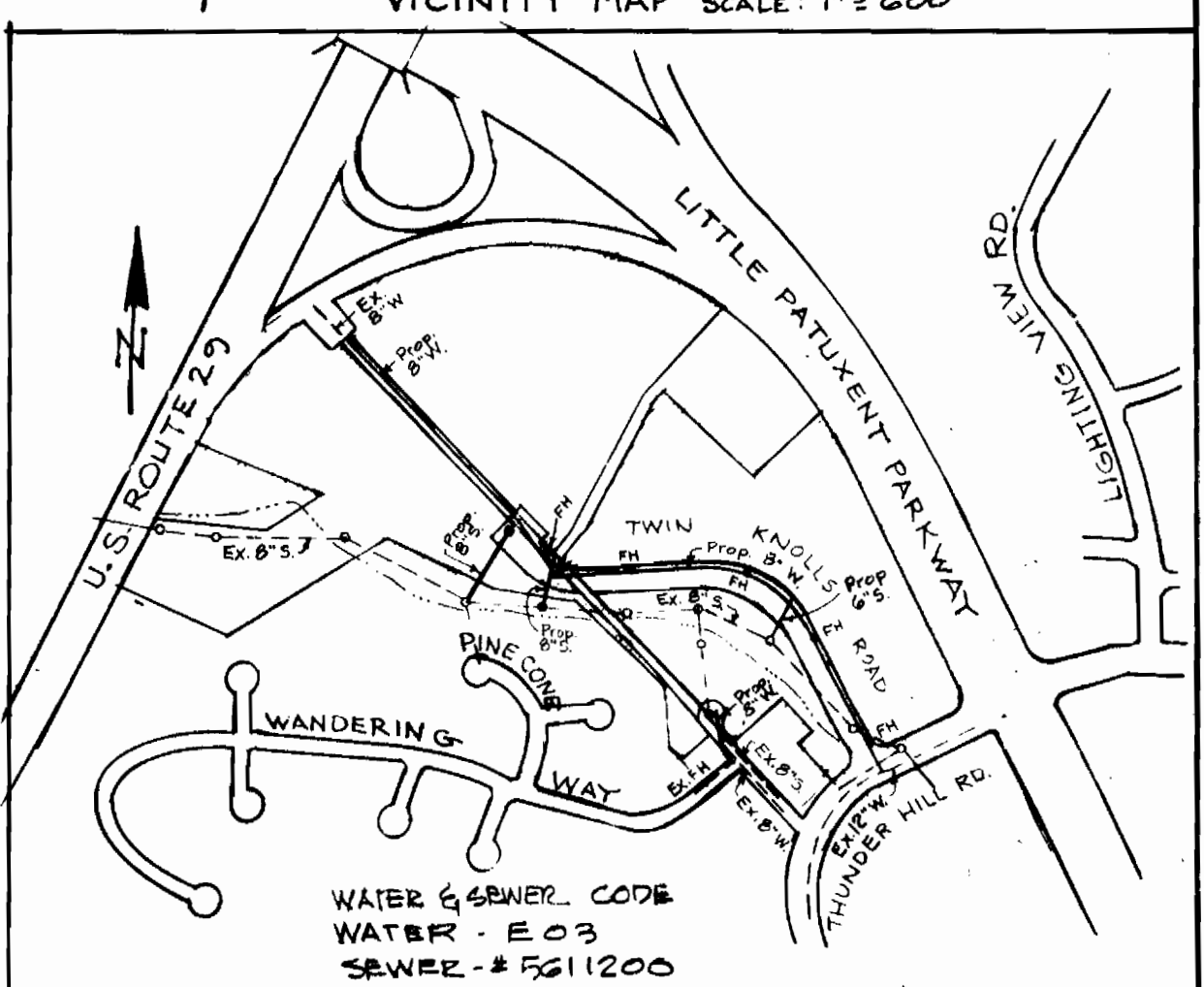


- GENERAL NOTES**
- APPROX. LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND SERVICES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
  - CONTRACTOR SHALL NOTIFY MIBS UTILITY (559-0100) AT LEAST 3 DAYS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON.
  - FOR ALL STANDARD DETAILS SEE STANDARDS BOUND IN SPECIFICATIONS.
  - CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY A MINIMUM OF 2'-0" OR TUNNEL AS REQUIRED. ANY COSTS INCURRED BY THE CONTRACTOR FOR TUNNELING OR BRACING POLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION.
  - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
  - ALL WATER LINES TO HAVE A MIN. OF 3'-6" COVER, UNLESS OTHERWISE NOTED.
  - BLOCK ALL FITTINGS WITH CONCRETE; STANDARDS BOUND IN SPECIFICATIONS.
  - BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. SOIL AROUND HYDRANTS TO BE COMPACTED IN ACCORDANCE WITH SECTION 5.15 OF THE STANDARD SPECIFICATIONS.
  - ALL FIRE HYDRANTS SHALL BE STRAPPED TO THE TEE AND SHALL BE BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS.
  - ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MD STATE DATUM.
  - ALL WATER HOUSE CONNECTIONS SHALL HAVE VALVES.
  - ALL WATER MAINS SHALL BE C.I.P., D.I.P. OR A.C.P.X. UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL NOTIFY BALTIMORE GAS AND ELECTRIC CO. 72 HOURS PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF ANY GAS AND ELECTRIC FACILITIES BY CALLING 539-8000 EXT. 69. THE CONTRACTOR SHALL NOTIFY THE C.E.P. TELEPHONE CO. PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF ANY TELEPHONE CO. FACILITIES BY CALLING COLLECT 685-0400 IN BALTIMORE.
  - TREES ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. ALL TREES LOCATED WITHIN THE CONSTRUCTION AREA ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
  - ALL VALVES SHALL BE STRAPPED TO TEES IN ACCORDANCE WITH STANDARD DETAILS.
  - ALL SEWER MAINS SHALL BE C.S.P.X. V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION AND BACKFILL FOR WATER AND SEWER MAINS.
  - 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.
  - THE CONTRACTOR SHALL NOTIFY AMERICAN TELEPHONE AND TELEGRAPH PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF ANY AT&T FACILITIES BY CALLING 422-5330. THE CONTRACTOR SHALL NOTIFY COLONIAL PIPELINE CO. PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF THE EXISTING 6" PIPELINE BY CALLING 252-0165.

QUANTITIES		
ITEM	PROPOSED	AS-BUILT
8" Sewer	314 LF	
8" Water	2572 LF	
6" Water	100 LF	
Manholes	31 V.F.	
6" S.H.C.	565 LF	
1" W.H.C.	40 LF	
Fire Hydrants	5 Ea.	



No.	Date	Revision
1	11-14-78	Add Valves on Fire Hydrants

**RICHARD BROWNE ASSOC.**  
WILDE LAKE VILLAGE GREEN, SUITE 207  
COLUMBIA, MD. 21044

**ENGINEERS SURVEYORS PLANNERS ARCHITECTS**

COLUMBIA, MD.  
WAYNE, N. J.

**HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
Richard Chunderberg, Director of Public Works  
10-17-78

**W. O. Fallick**, Chief, Bureau of Engineering  
10-17-78

CONTRACT NO. **2816-D-W&S**

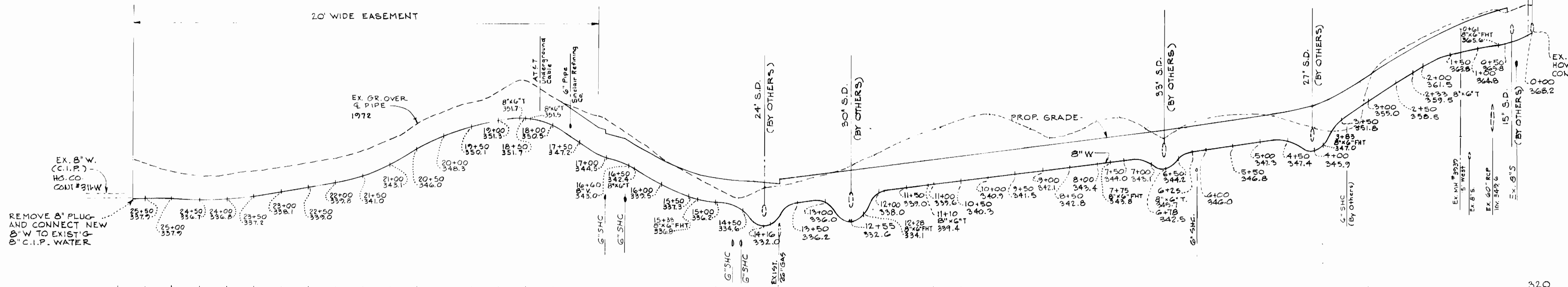
**PLAN OF WATER & SEWER MAINS**

**WATER AND SEWER MAIN EXTENSIONS TWIN KNOLLS ROAD AND OAKLAND MILLS ROAD VILLAGE OF OAKLAND MILLS - SECTION 3, AREA 1**  
Election District No. 6  
Howard County, Md.

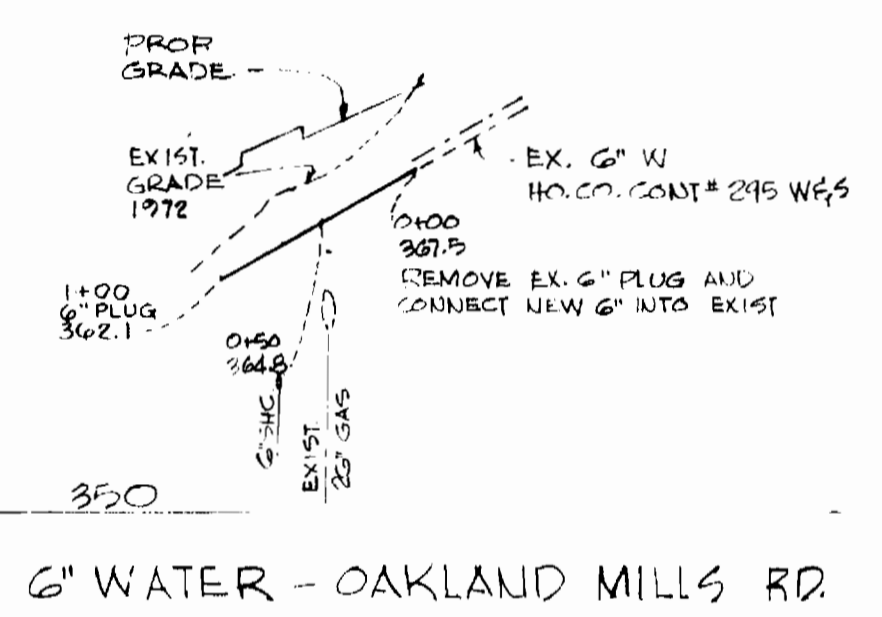
DRAWING NO. **1** OF **2**

SCALE: **1" = 60'**

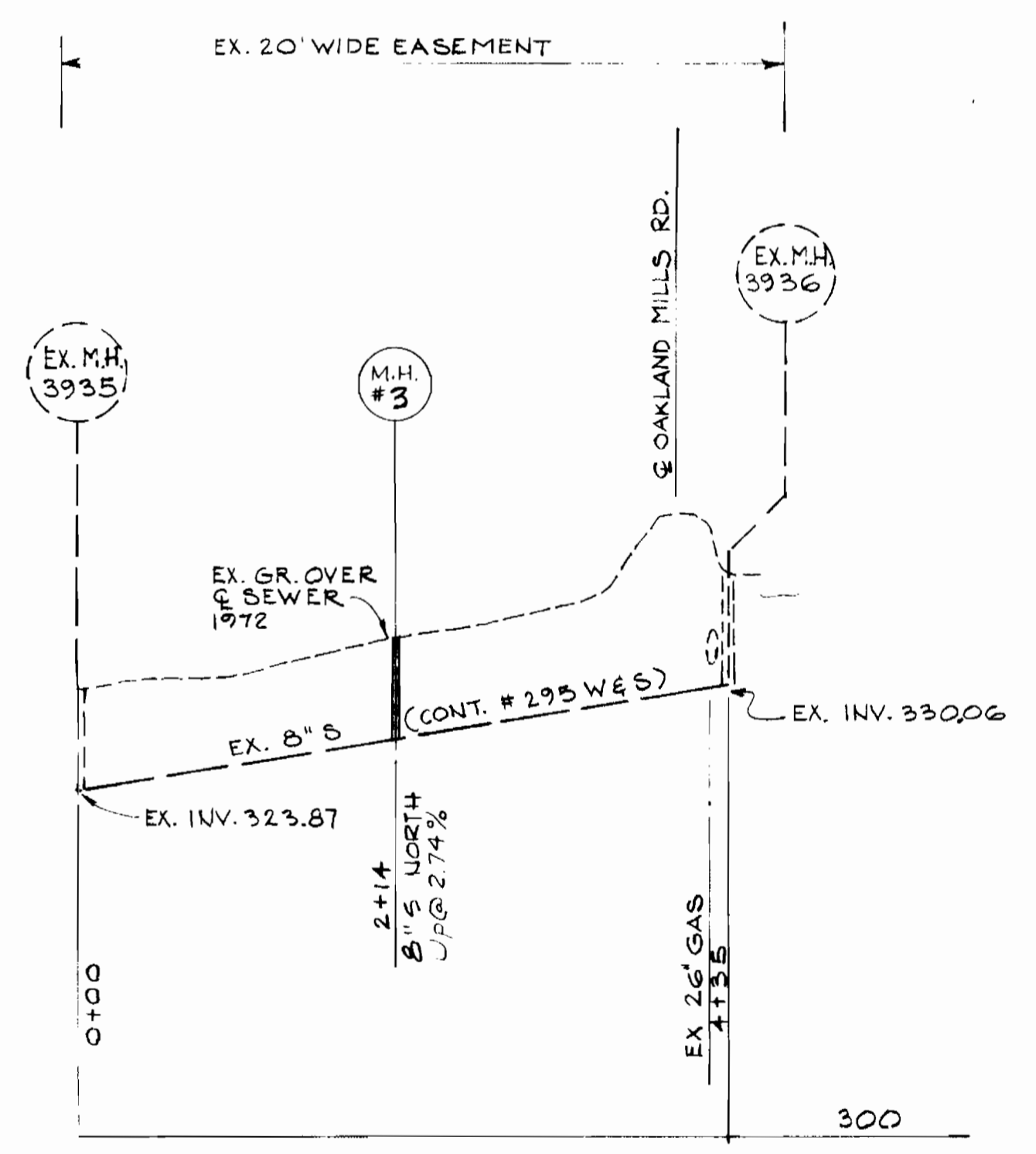
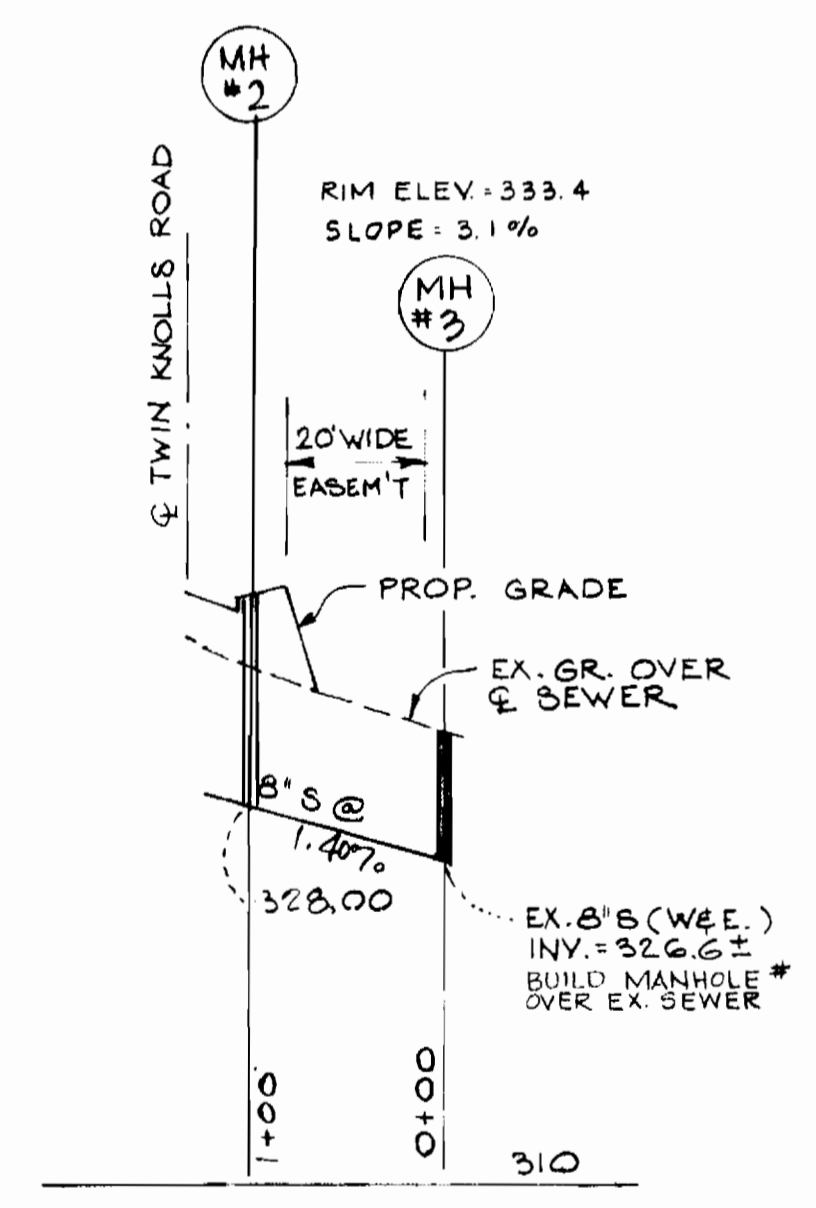
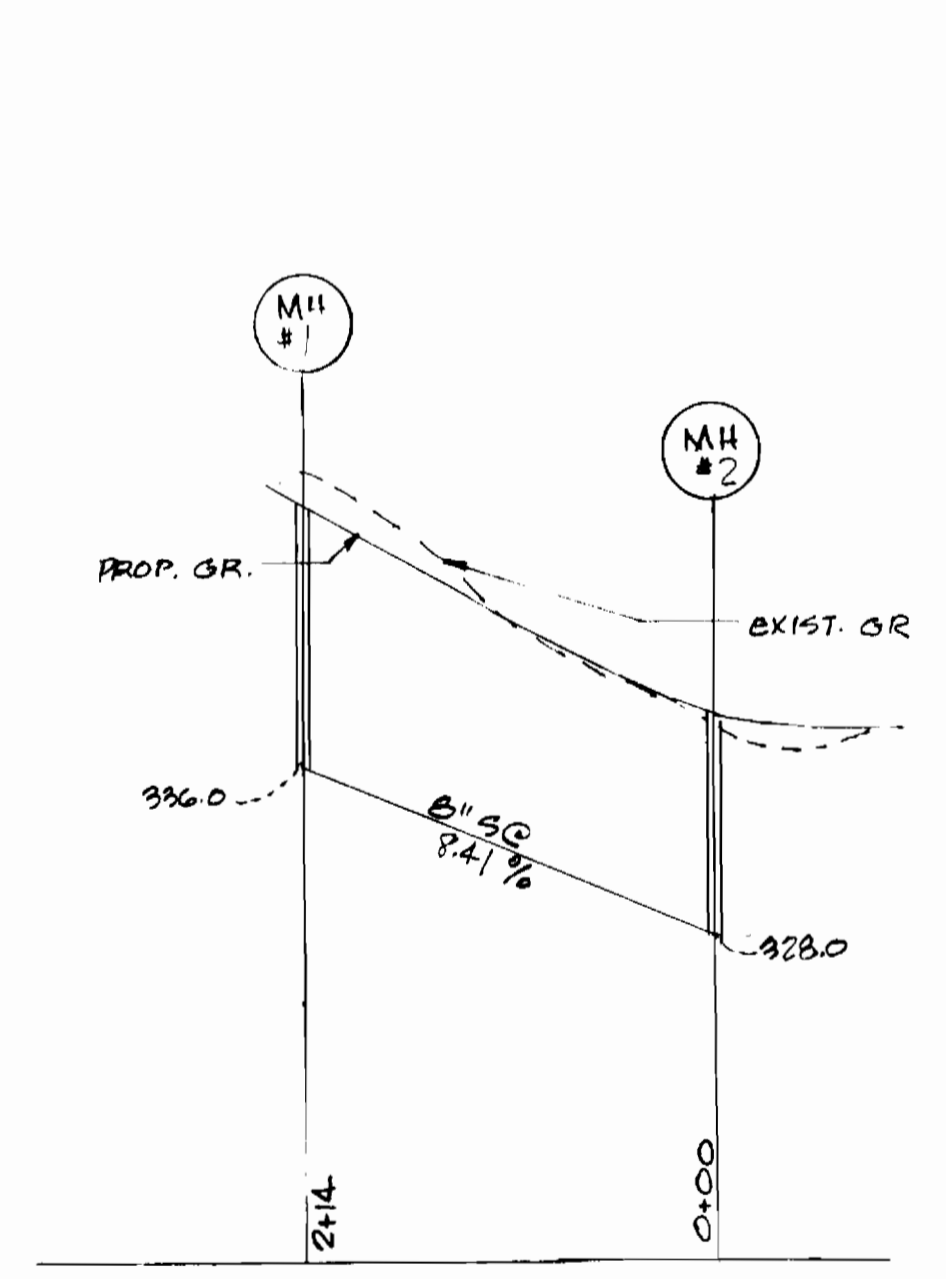
DES: E.C.  
DRWN: M.K.  
CHK: L.A.L.  
DATE: 7-7-78



8" WATER - TWIN KNOLLS ROAD



6" WATER - OAKLAND MILLS RD



<b>RICHARD P. BROWNE ASSOCIATES</b> ENGINEERS SURVEYORS PLANNERS ARCHITECTS COLUMBIA, MD. WAYNE, N. J.	HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>Richard C. Freudenberger</i> / 10-11-78 DIRECTOR OF PUBLIC WORKS DATE		CONTRACT NO. <b>816-D-W&amp;S</b>	PROFILE OF <b>WATER &amp; SEWER MAINS</b>	<b>WATER AND SEWER MAIN EXTENSIONS</b> <b>TWIN KNOLLS ROAD AND OAKLAND MILLS RD.</b> <b>VILLAGE OF OAKLAND MILLS - SECTION 3, AREA 1</b> ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD.	DRAWING NO. <b>2</b> OF <b>2</b>	SCALE HORIZ. 1" = 100' VERT. 1" = 10'	DES: R.V. DRWN: E.R. CHK: E.A.C. DATE:
	DATE <b>10-17-78</b> CHIEF: BUREAU OF ENGINEERING DATE							