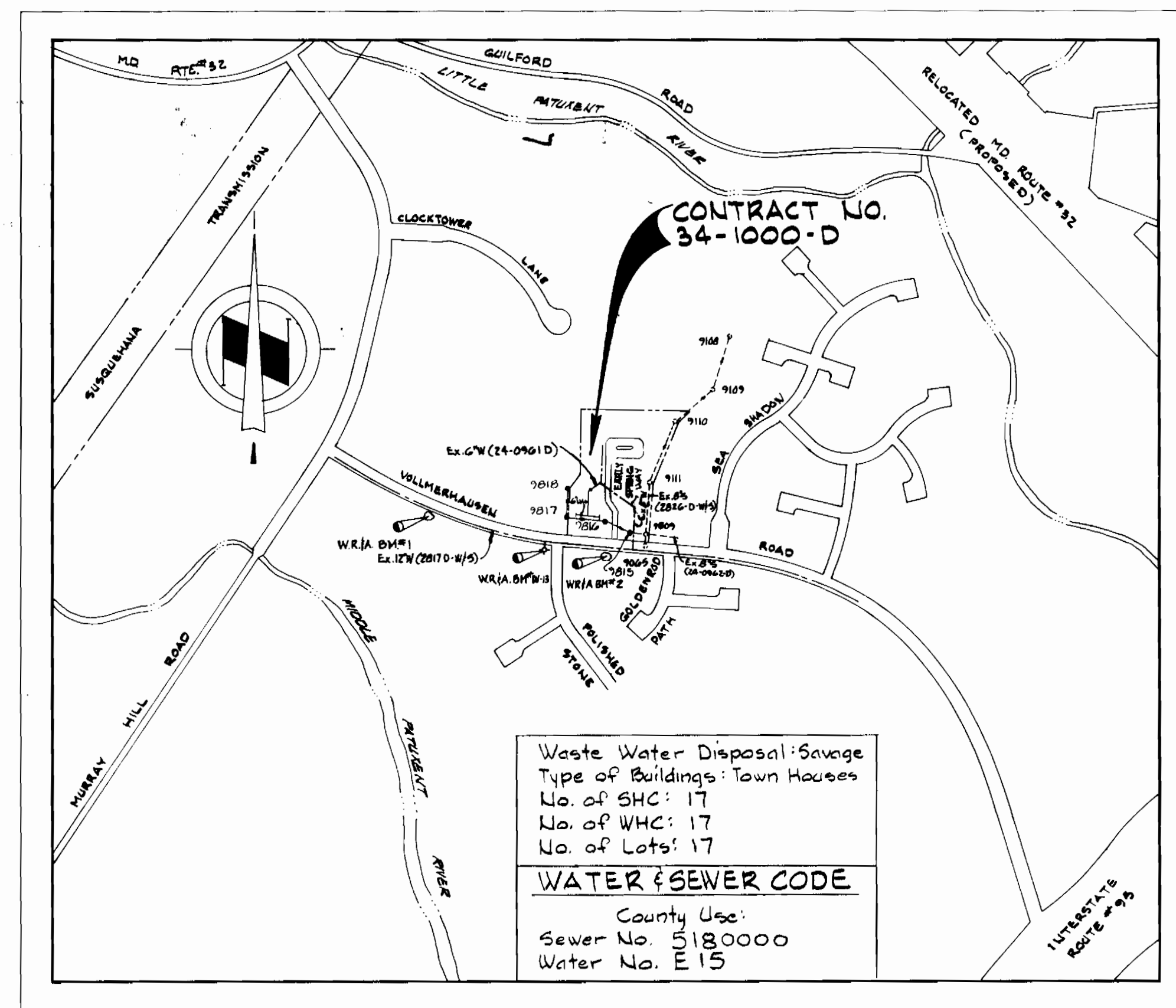


BENCH MARKS

W.R.A. B.M.#1	Elev. 301.62
R.R. Spike at side 18' Poplar, 50' Right of Vollmerhausen Road Sta. G+00.	
W.R.A. B.M.#2	Elev. 354.54
R.R. Spike at side 18' Twin Poplar, 40' Right of Vollmerhausen Road Sta. 15+35.	
W.R.A. B.M.#W-13	Elev. 317.30
X-Cut in Flange Bolt on Fire Hydrant at Int. of Vollmerhausen Rd. and Polished Stone.	



VICINITY MAP
Scale: 1"=600'

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 PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF UTILITIES AT HIS EXPENSE.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, USE HOWARD COUNTY STANDARD DETAILS.
- FOR MATERIALS AND CONSTRUCTION REQUIREMENTS, USE HOWARD COUNTY STANDARD SPECIFICATIONS.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON USGS DATUM.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE COST FOR TUNNELING OR BRACING POLES SHALL BE INCLUDED IN APPROPRIATE UNIT PRICES BID.
- 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 & ELECTRIC COMPANY
UNDERGROUND ELECTRIC AND GAS DISTRIBUTION-CUSTOMER SERVICE - 685-0123
DAMAGE CONTROL - 234-5621
"MISS UTILITY" - 1 - 559-0100
CHESAPEAKE & POTOMAC TELEPHONE COMPANY - 725-9976
AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 393-3553.
BUREAU OF UTILITIES HOWARD COUNTY - 992-2366
- TREES ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES 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 AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN APPROPRIATE UNIT PRICES BID.
- 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 TO BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2 FEET OF COVER UNLESS OTHERWISE NOTED.
- VALVES SHALL BE STRAPPED WHERE APPLICABLE.
- BLOCK ALL FITTINGS WITH CONCRETE.
- WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- ALL SEWER MAINS SHALL BE C.S.P.R., V.C.P.R., A.C.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- MANHOLES SHOWN WITH 12" WALLS ARE FOR BRICK MANHOLES ONLY.

NOTE:
Original Ground over Water & Sewer was taken from Aerial Photography prepared by Maps and Inc. and verified by field survey in March, 1981.

NOTE:
All WHC's shall be 3/4" diameter unless otherwise noted.

PLAN
Scale: 1"=30'

QUANTITIES

ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Sewer - LF	580	570	LOGAN / A&P SUPPLY
Manholes - Ea.	4	4	ATLANTIC/ATLANTIC PRECAST
6" Water - LF	260	260	DIP GRIFFIN / A&P SUPPLY
6" Valves - Ea.	1	1	AMERICAN DARLING / A&P
Fire Hydrants	-	-	

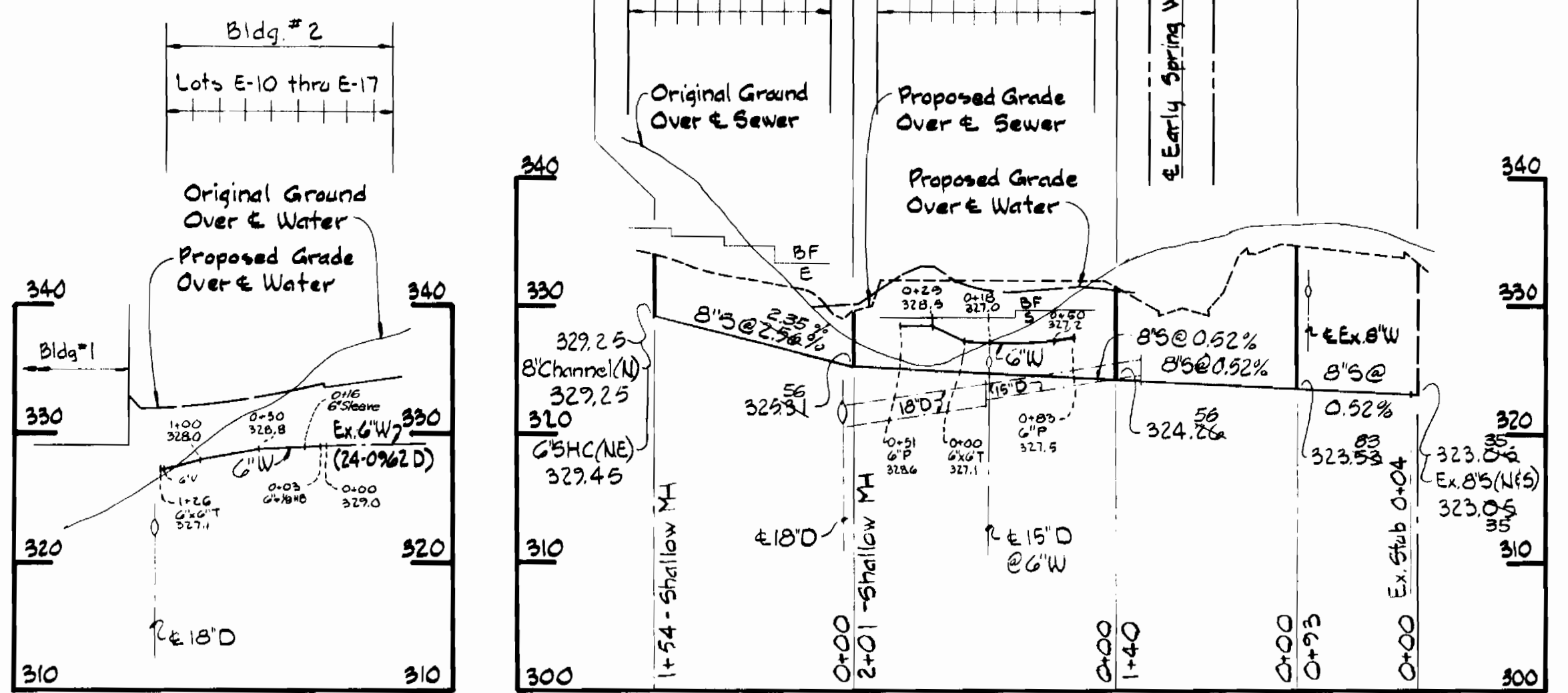
Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications and S.D.P. No. 81-111C.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
James M. Helms 7-29-81
 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District

APPROVED:
William J. Home 7-29-81
 HOWARD B.C.D. DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS - DATE
 CHIEF - BUREAU OF UTILITIES - DATE



PROFILES
Scale: H: 1"=100' V: 1"=10'

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND

CONTRACT NO. 34-1000-D

PLAN & PROFILES OF WATER & SEWER MAINS

COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE
 ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 1 OF 1 AS SHOWN

Village of Kings Contrivance Section 3 Area I Parcel "E" Part 3 Lot E-1 thru E-17 Contract No. 34-1000-D

JULY 24, 1981