

TYPE OF BUILDINGS - EXIST. SINGLE FAMILY HOMES
 NUMBER OF LOTS - 3
 NUMBER OF SEWER HOUSE CONNECTIONS - 4
 DRAINAGE AREA - PATAPSCO RIVER

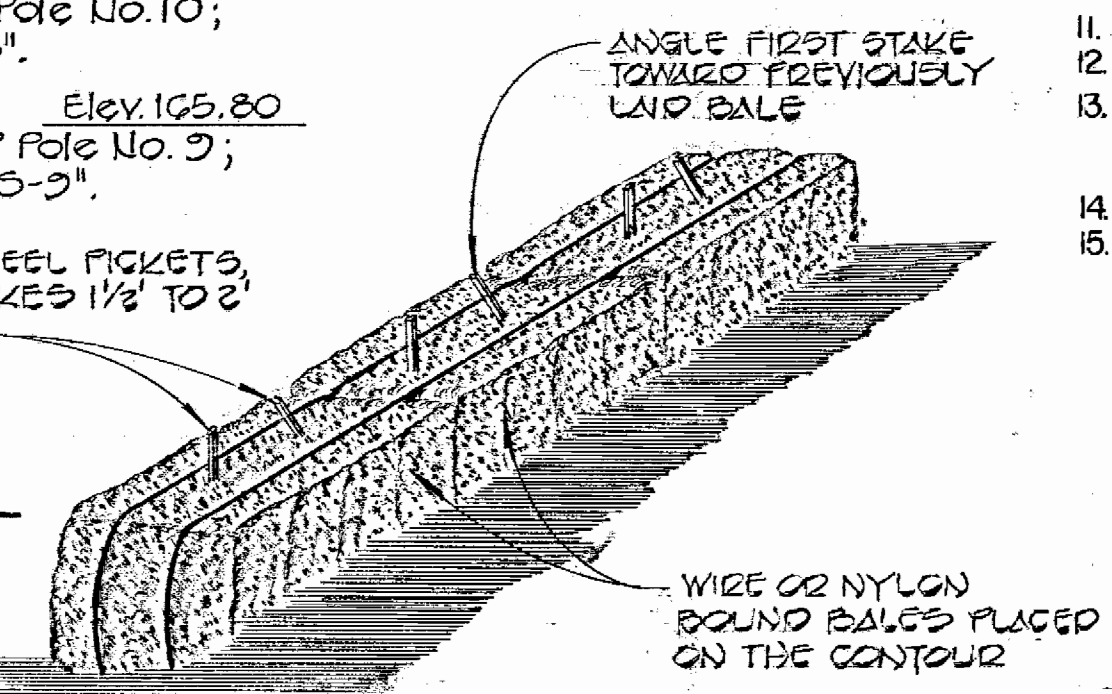
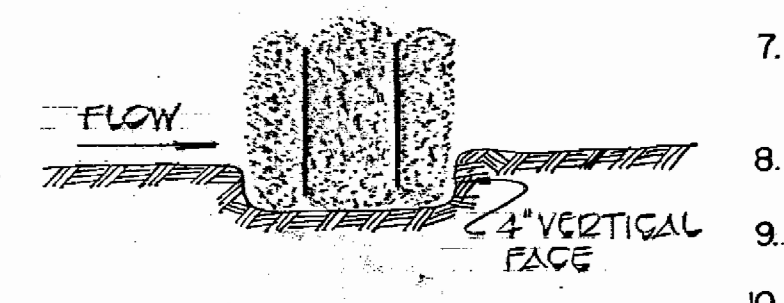
VICINITY MAP
 SCALE: 1"=600'

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 (I) ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. ANY COSTS INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
- FOR DETAILS NOT SHOWN ON DRAWING USE HOWARD COUNTY STANDARD DETAILS.
- 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) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION - 531-5333
 BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND ELECTRIC - 685-023
 C&P TELEPHONE CO. - 725-9976
 BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND GAS - 685-023
 MISS UTILITY - 1-559-0100
 BUREAU OF UTILITIES HOWARD COUNTY - 992-2366
- 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 SEWER MAINS SHALL BE C.S.P.X., V.C.P.X. OR A.C.P. CLASS 2400 R.C.S.P. OR P.V.C., UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES TO BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- 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.

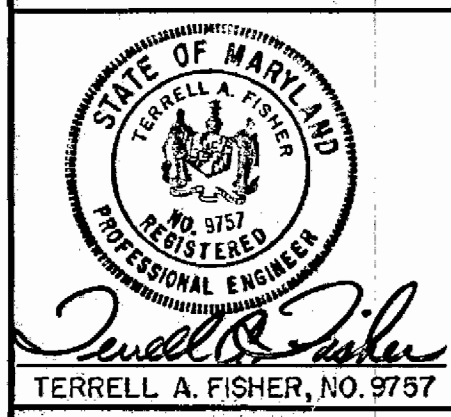
BENCH MARKS

- F.C.C. BM #1 Elev. 174.78
R.R. spike in B.G. & E. Pole No. 133370; 30' ± S.W. of P.I. 'ES-10'
- F.C.C. BM #3 Elev. 202.73
R.R. spike in C&P Pole No. 10; 30' ± E. of P.I. 'ES-3'
- F.C.C. BM #4 Elev. 165.80
R.R. spike in C&P Pole No. 9; 35' ± N.E. of P.I. 'ES-9'



QUANTITIES			
ITEM	EST'D	AS-BUILT	SUPPLIER
8" Sewer	325 LF	311 LF	V.C.P. DELIA ROAD SUPPLY
Manhole	32 YF	38.4 YF	FRAGA'S TERRACE HILL
6" Sewer	33 LF	40 LF	V.C.P. DELIA ROAD SUPPLY

CONTRACT NO. 868-S
 AUGUSTINE AVE.
 SEWER MAIN EXTENSION
 CAPITAL PROJECT S-9-6078



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY MARYLAND
 Chief-Bureau of Utilities
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief-Bureau of Engineering
 CONTRACT NO. 868-S
 CAPITAL PROJECT S-9-6078
 PLAN AND PROFILES
 OF SEWER MAINS

AUGUSTINE AVE. SEWER
 AUGUSTINE AVE. - WASHINGTON BLVD.
 ELECTION DISTRICT ELKRIDGE NO. 1
 DRAWING NO. 1 OF 1
 SCALE AS SHOWN
 DES: R. D. B.
 DRN: D. B. S.
 CHK: T. A. F.