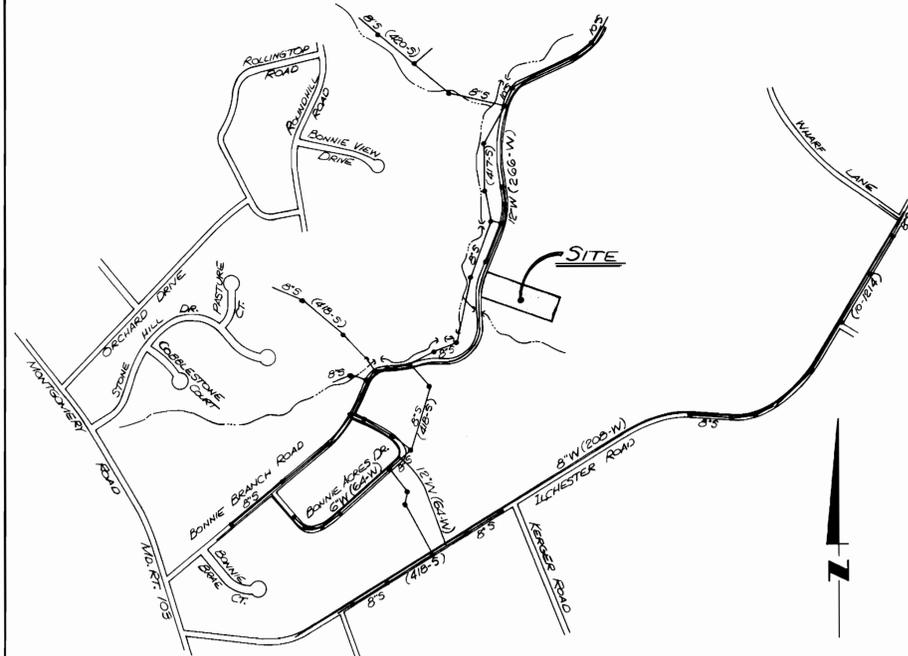
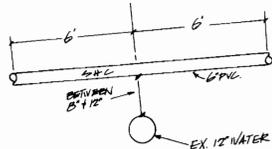


GENERAL NOTES

- 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 HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- 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.
- 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

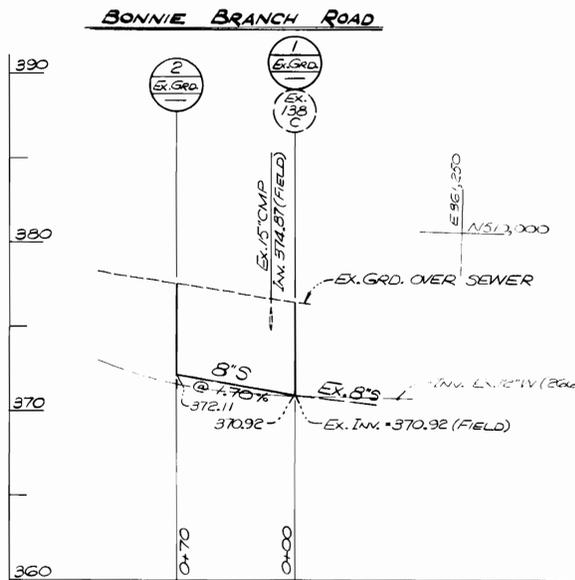
| | |
|------------------------------------|-------------------------------------|
| STATE HIGHWAY ADMINISTRATION | 531-5533 |
| BALTIMORE GAS & ELECTRIC CO. | CONTRACTOR SERVICE 561-2585 |
| BALTIMORE GAS & ELECTRIC CO. | UNDERGROUND DAMAGE CONTROL 234-5621 |
| BALTIMORE GAS & ELECTRIC CO. | TROUBLE SHOOTING 298-9013 |
| MISS UTILITY | 1-559-0100 |
| COLONIAL PIPELINE CO. | 795-1390 |
| BUREAU OF UTILITIES, HOWARD COUNTY | 992-2366 |
| DEPARTMENT OF PUBLIC WORKS | |
- 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.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- ORIGINAL GROUND OVER WATER WAS DETERMINED FROM A FIELD STRIKY BY GREENHORNE & O'MARA, INC. IN AUG., 1997.
- STRAW BALE DIKES AND SILT FENCES ARE INTERCHANGEABLE.

BOTH SHC'S CROSSED OVER THE EX. WATER MAIN

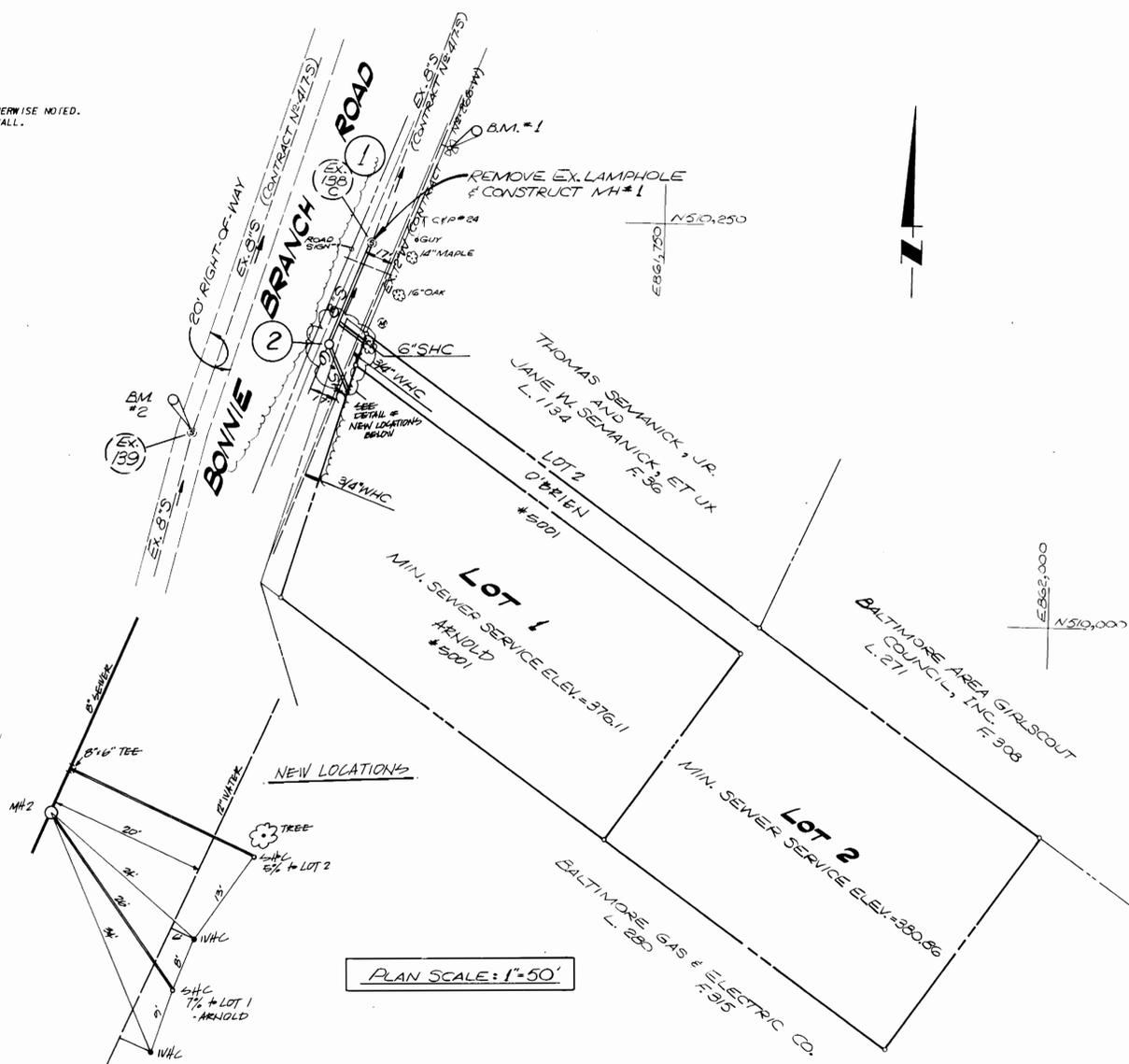


VICINITY MAP SCALE: 1" = 600'

| | |
|---|--|
| WATER & SEWER CODE FOR COUNTY USE WATER: 609 SEWER: 1255000 | DRAINAGE AREA: DATAPSCO TYPE OF BUILDINGS: RESIDENTIAL NO. OF WHC: 2 NO. OF LOTS: 2 |
|---|--|



PROFILE SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



PLAN SCALE: 1" = 50'

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
James M. Helm 11-25-07
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Stephen L. Gorden 11/24/07
HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATION, AND FINAL PLANS F-87-219

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

"AS BUILT" 4/2/00

BM #1 ELEV. 379.42
FH BONNET BOLT (PAINTED BLACK) ON S.E. SIDE OF BONNIE BRANCH RD. @ NO. 4971
BM #2 ELEV. 374.53
RIM OF EX. MH 139, 55' W. OF E.R. BONNIE BRANCH ROAD

| ITEM | QUANTITIES | | MATERIAL / SUPPLIER |
|-------------------|------------|----------|----------------------|
| | BID | AS-BUILT | |
| 34" SAN. SEWER MH | EA. 2 | 2 | ATLANTIC PRECAST |
| 34" SAN. SEWER LF | 70 | 70 | CERTAIN TEND |
| 34" MHC | LF 12 | 12 | PRICED BIDDING / 44P |

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. Benjamin 11-29-07
DIRECTOR OF PUBLIC WORKS DATE

William J. Kelly 11-27-07
CHIEF, BUREAU OF ENGINEERING DATE

William J. Kelly 11-29-07
CHIEF, LAND DEVELOPMENT DIVISION DATE

GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MARYLAND 21204
(301) 296-4100



| | | | |
|---------------|--------|-----------|------|
| DES: JDP | BY NO. | REVISIONS | DATE |
| DRN: JDP/Plum | | | |
| CHK: RHM | | | |
| DATE: Aug. 07 | | | |

PLAN FOR SEWER MAIN EXTENSION

600' SCALE MAP NO. 31 BLOCK NO. 9 E 15'

ARNOLD/O'BRIEN SUBDIVISION
TAX MAP 31 BLOCK 9 1/2 PARCEL 557
CONTRACT # 14-1714-D
FIRST ELECTION DISTRICT
HOWARD CO., MARYLAND

SCALE AS SHOWN
SHEET 1 OF 1