

AS-BUILT 11/14/94

3308 w/s 1 Ellicott City Assembly of God

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING UTILITIES 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 AND AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON USGS DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT  $\ominus$  ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 4' CLEAR. ALL POLES BY 24" MINIMUM OR TUNNELED AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGE SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 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 (LATEST EDITION) ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  $\oplus$  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:
  - SHA - 531-5533
  - BGE CONTRACTOR SERVICES - 840-4620
  - BGE UNDERGROUND DAMAGE CONTROL - 787-9068
  - BGE TROUBLE SHOOTING - 298-9001
  - MISS UTILITY - 1-800-251-7777
  - COLONIAL PIPELINE CO. - 793-1390
  - BUREAU OF UTILITIES, HOWARD CO DPW - 313-4000
- 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.

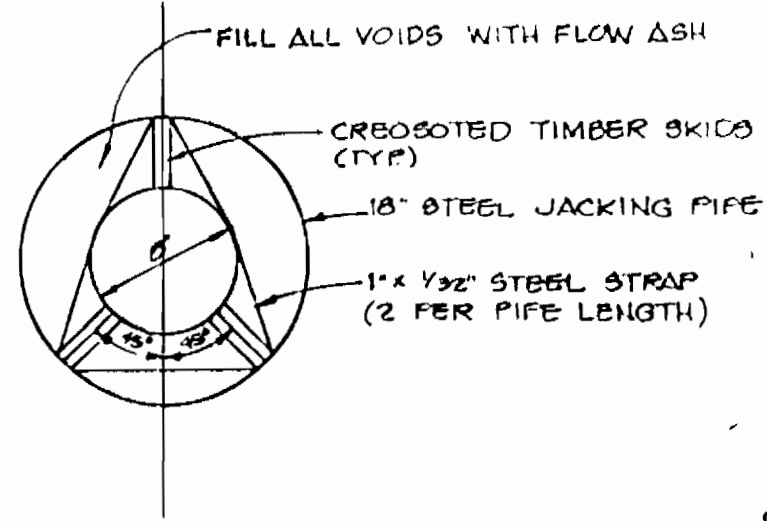
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- ALL WATERMANS TO BE D.I.P. CLASS 92, UNLESS OTHERWISE NOTED.
- TOP OF ALL WATERMANS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED W/CONC. IN ACCORDANCE W/STAND.DTL'S.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECTIONS 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AND INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATERMAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPEC C-153, DUCTILE IRON COMPACT FITTINGS, 3"-12" FOR WATER AND OTHER LIQUIDS.
- ALL SERVICE CLAMPS TO HAVE STAINLESS STEEL STRAPS.
- ALL SEWER MAINS SHALL BE C.S.P.S., V.C.P.X. OR P.V.C. UNLESS OTHERWISE NOTED.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAMES AND COVERS, STANDARD DETAIL G5.52, VOLUME I. WHERE WATERTIGHT FRAME AND COVER IS USED, SET TOP OF FRAME 1'-0" ABOVE FINISHED GRADE.
- HOUSE(S) WITH SYMBOL "C.N.S." INDICATES THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL HAVE A ONE FOOT MINIMUM CLEARANCE ABOVE ALL SANITARY SEWER CROSSINGS.
- ALL SANITARY SEWER HOUSE CONNECTIONS SHALL HAVE A MINIMUM VERTICAL CLEARANCE BELOW ALL WATERMAIN CROSSINGS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.

NOTES

- A JOINT IN THE MAIN PIPE TO BE PROVIDED WITHIN 2 FEET OF EACH OUTSIDE END OF CASING.
- AN 8" BRICK BULKHEAD TO BE PROVIDED AT EACH END OF CASING. TWO 2" DIAMETER PIPES THROUGH BULKHEAD TO BE PROVIDED AT EACH SIDE OF MAIN PIPE AT LOW END OF CASING FOR DRAINAGE. PRIOR TO FILLING WITH ORGUT.
- ALL STRAPS AND OTHER EXPOSED STEEL TO BE COATED AS IN NOTE 2 ABOVE.
- STEEL CASING INSTALLED BY JACKING TO BE 5/16" MINIMUM THICK, AWWA C-200-80 WITH COAL TAR ENAMEL COATING, AWWA C-205 OR G210. JOINTS TO BE WELDED FULL CIRCUMFERENCE.

BORING & JACKING DETAIL

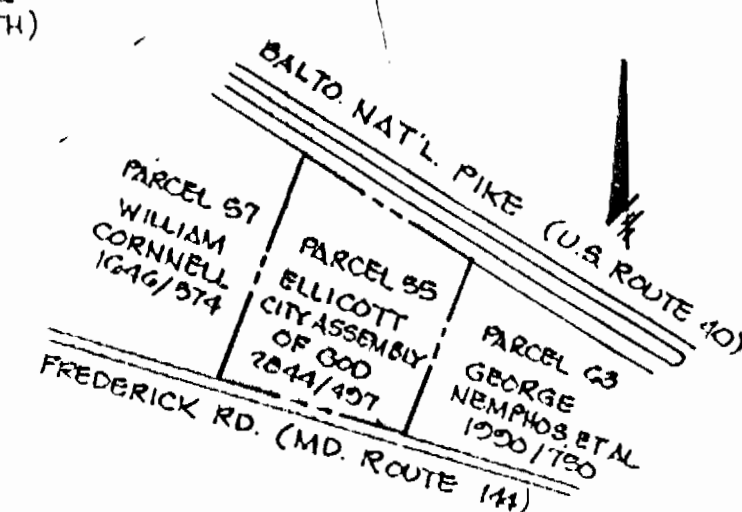
NO SCALE



BENCHMARK #1 EL. 410.77

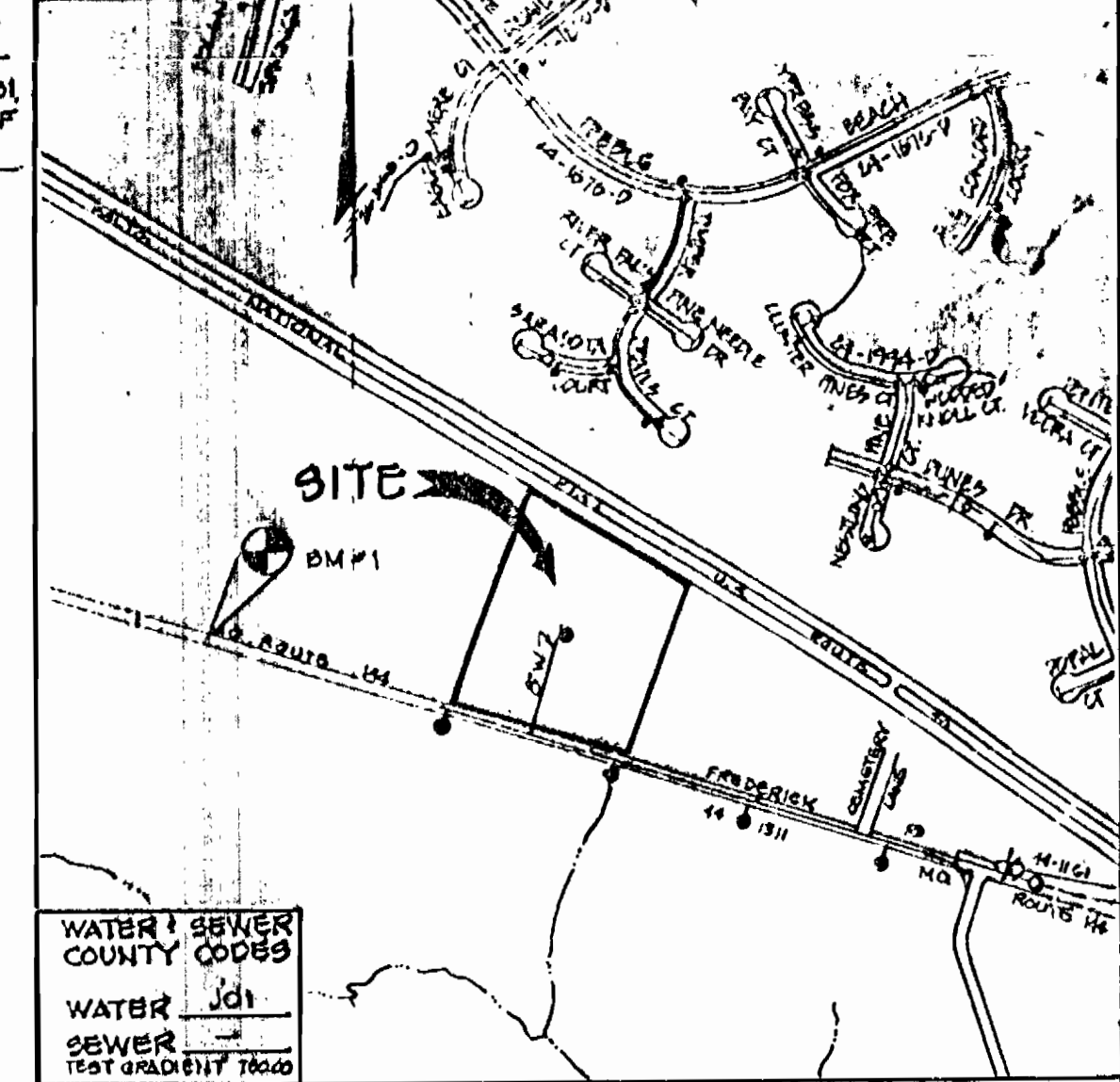
RAILROAD SPIKE IN 80' E. POLE #4009, NORTH SIDE OF RT. 141, 225' W. WEST OF CEMETERY LANE.

H.C. TRAVERBER STA. 101 A. N 58° 30' 00" E 1,346.348, 506



PLAN

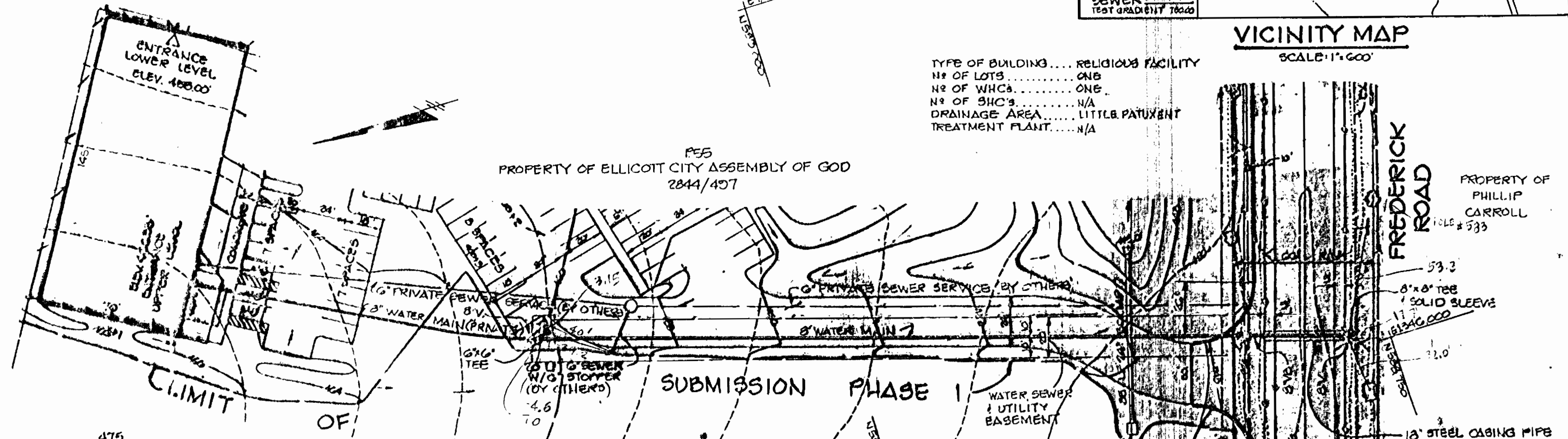
SCALE: 1"=60'



VICINITY MAP

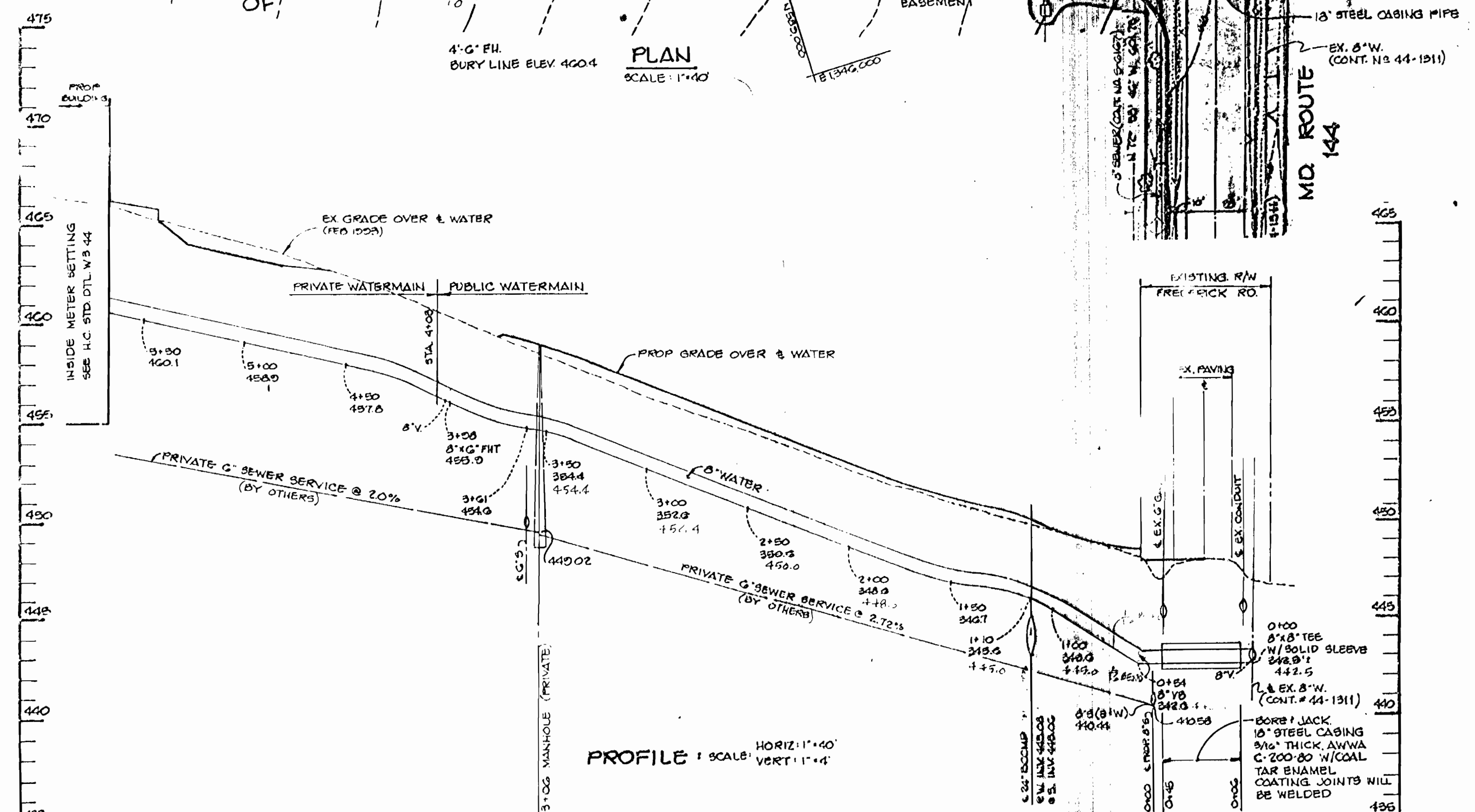
SCALE: 1"=600'

TYPE OF BUILDING..... RELIGIOUS FACILITY  
 NO OF LOTS..... ONE  
 NO OF WHCS..... ONE  
 NO OF SHCS..... NA  
 DRAINAGE AREA..... LITTLE PATUXENT  
 TREATMENT PLANT..... NA



PLAN

SCALE: 1"=40'



PROFILE

SCALE: HORIZ: 1"=40' VERT: 1"=4'

LOCKING AND BORING

- The hole bored for the pipe shall not exceed the outside diameter of the pipe.
- A hearing timber shaft at either end of the jacking pit will be provided in order to prevent failure of the embankments and to maintain access to the jacking and boring operations. This support shall be maintained during non-working hours in order to prevent cave-ins.
- Jacking shall be accomplished in accordance with the latest approved method or as directed by the engineer.
- Jacking pits to be located a minimum of 6' off edge of shoulder and 6' off edge of median.
- The steel casing pipe shall be jacked, and the earth removed therefrom in such a manner as to cause no settlement or damage to the roadway of the highway. The removal of earth from the jacked pipe shall be accomplished by methods approved by the engineer and in such a manner as to protect the inside of the pipe. Work shall be continued as to prevent cave-ins beyond the pipe. If in the opinion of the Engineer the installation is being conducted in an unsafe manner, the Permittee and/or Contractor will be required to stop work and without the hearing until the method is modified to meet the approval of the Engineer.
- Solid sheeting shall be driven in all jacking pits and in any cuts within 4' of the edge of the State Highway.
- Permanent repairs shall consist of removing the temporary pavement and replacing with the same type of material and to the same depth and section that existed or better.
- All backfill in jacking pits shall be made in 6" layers, thoroughly compacted, brought to and maintained to grade of existing grade, and within previously removed soil and in the event said soil is damaged or destroyed, it shall be replaced to the satisfaction of the State Highway Administration Engineer.
- All other backfill shall be made in 6" layers with the slopes being protected at all times.
- The Permittee shall be responsible to repair any and all settlement and/or other faults of the pit areas and over the pipe for a minimum period of one (1) year from date of completion.
- The Permittee shall be responsible to maintain traffic on the State Highway until after-mentioned repair work is completed and normal traffic on the State Highway is obtained.
- The Permittee is responsible for the repair of roadway embankments, bridges, structures, etc., that becomes necessary or caused by the construction of existence of the work covered under this permit.
- Vertical and horizontal deflections of the proposed pipe shall not exceed 0.4% from established line and grade. All work exceeding these limits will be replaced with and all further operations will be continued with tamped liners, through which the proposed pipe will be placed. Liner pipe to be 12 gauge plate or corrugated steel as manufactured by Republic Steel Company, Arcon or approved equal.

SOP #24-QB

APPROVED FOR HOWARD SOIL CONSERVATION DISTRICT AND NRETS TECHNICAL SERVICES

*Christina Engler* 2/24/94  
 U.S. SOIL CONSERVATION SERVICES DATE

SOP #24-QB

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Robertson* 2/24/94  
 HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 210 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SITE PLAN # SOP 04-05.

ITEM	ESTIMATE	AS/BUILT	TYPE	MFGR/SUPPLIER
8" WATER	403 LF	4	8"	D.P.C. 92
6" WATER	7 LF	6	6"	D.P.C. 92
8" VALVE	1	2	8"	D.P.C. 92
FIRE HYDRANT W/G.V.	1	1	8"	D.P.C. 92
8" x 8" SOLID SLEEVES	1	1	8" x 8"	D.P.C. 92
16" STEEL CASING PIPE	30 LF	2	16"	D.P.C. 92
8" x 8" TEE	1.0	1.0	8" x 8"	D.P.C. 92

NAME OF UTILITY CONTRACTOR: L.P. W&S SURVEY & DRAFTING DIVISION AS-BUILT DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*James M. Clavin* 3/1/94  
 DIRECTOR OF PUBLIC WORKS DATE

*John R. Robertson* 3/1/94  
 CHIEF, BUREAU OF UTILITIES DATE

TRACY ENGINEERING, INC  
 LAND DEVELOPMENT, PLANNING & ENGINEERING  
 P.O. BOX 22881  
 BALTIMORE, MARYLAND 21210  
 (410) 243-8920

*James R. Tracy*  
 PROFESSIONAL ENGINEER

DES: JKT	BY NO.	REVISION	DATE
DRN: CDT			
CHK: JKT			
DATE: 8-5-93			

PLAN AND PROFILE OF WATER MAIN  
 600' SCALE MAP NO. 19 BLOCK NO. 24

ELICOTT CITY ASSEMBLY OF GOD  
 PHASE I  
 ELECTION DISTRICT #2  
 CONTRACT NO. 44-3308-D  
 SCALE AS SHOWN  
 SHEET 1 OF 1

AS-BUILT 11/14/94