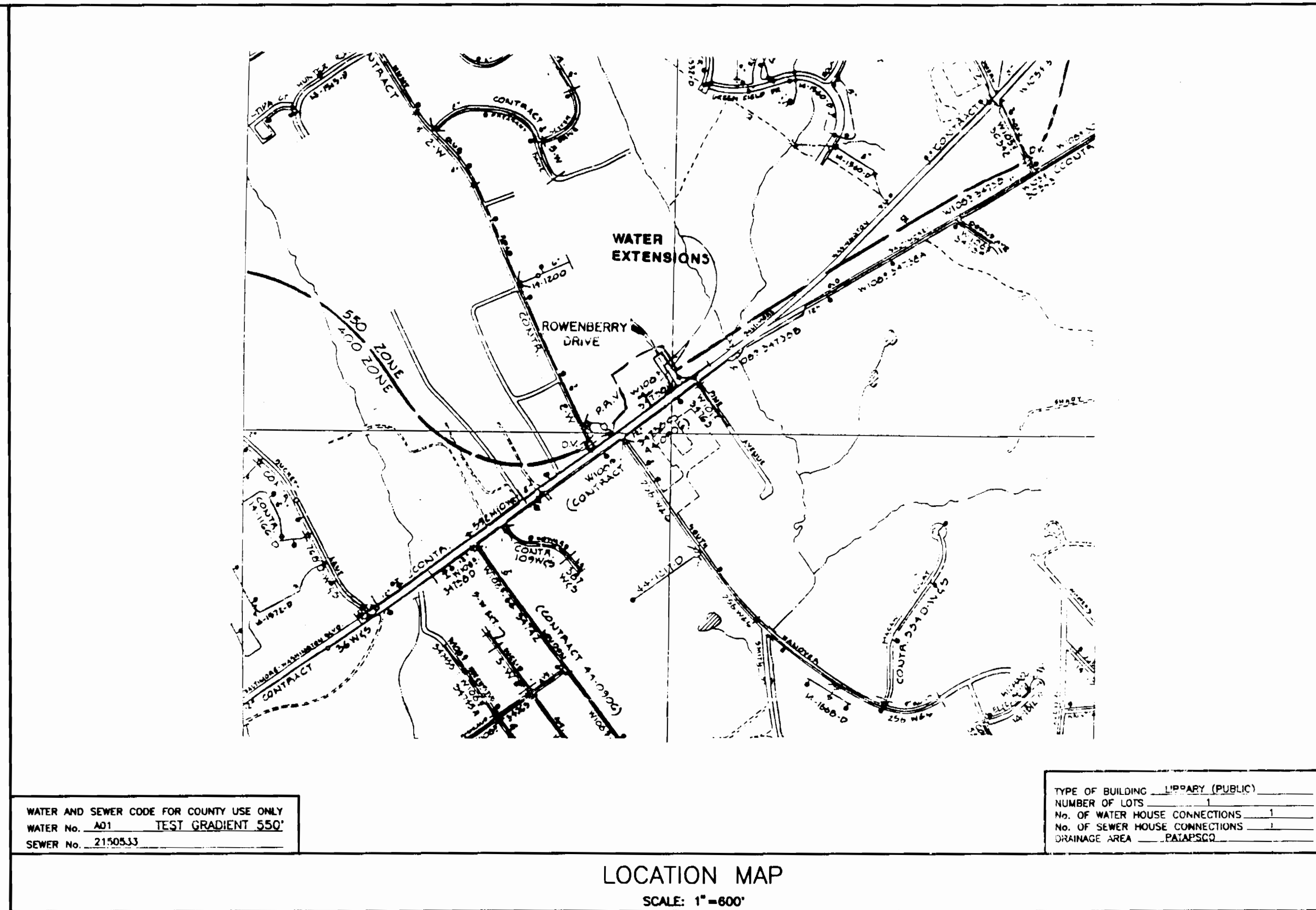


QUANTITIES			
ITEM	BID	AS-BUILT	SUPPLIER
8" WATER	262 L.F.		
8"x6" FHT	1 EA.		
8"x8" TS&V	1 EA.		
FIRE HYDRANT	2 EA.		
6" VALVE	3 EA.		
6" WATER	201 L.F.		
8" PLUG	1 EA.		
8"-1/8 VERT. BEND	2 EA.		
8"x6" TS&V	1 EA.		
6"x6" FHT	1 EA.		
4" SUC (1EA)	13 L.F.		



- 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. ANY COST 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 THE DRAWINGS, USE HOWARD COUNTY STANDARD DETAILS.
 - 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.
 - 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 AND ELECTRIC COMPANY - UNDERGROUND GAS & ELECTRIC DISTRIBUTION CUSTOMER SERVICE 685-0123
 ENGINEERING - "DAMAGE CONTROL" 234-5611
 "MISS UTILITY" 1-800-257-7777
 CHESAPEAKE & POTOMAC (C & P) TELEPHONE COMPANY 725-2976
 AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION 393-3533
 COLONIAL PIPELINE COMPANY 795-9976
 BUREAU OF UTILITIES HOWARD COUNTY 313-4900
 - 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 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.
 - ALL WATER MAINS TO BE D.I.P. CLASS 52 ONLY.
 - TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
 - BLOCK ALL FITTINGS WITH CONCRETE.
 - BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET AS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING UNLESS OTHERWISE SHOWN.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
 - FOR ALL COPPER WATER HOUSE CONNECTIONS, WIRE BUNDLED TIE ENDINGS ONLY.
 - ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400-OR PVC 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.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G.5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'6" ABOVE FINISH GRADE, STANDARD DETAIL G.5.41.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CAN NOT BE SERVED.
 - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS 3" THROUGH 12" WIDTH.
 - ALL SEWER HOUSE CONNECTIONS SHALL BE AT 2% SCOPE AND ARE 4" DIAMETER UNLESS OTHERWISE SHOWN.
 - ALL 3" BLOW-OFF SHALL BE PER STANDARD DETAIL W.4.13
 - ALL CONSTRUCTION TO BE DONE AS PER THIS PLAN AND CURRENT HOWARD COUNTY DESIGN MANUAL VOL. IV.
 - SEDIMENT CONTROL FOR WATER AND SEWER INSTALLATION AS PER SDP 91-83

CONTRACT No. 14-3171
 ROWENBERRY DRIVE
 AT
 ELKRIDGE LIBRARY

WATER MAIN EXTENSION

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

BENCHMARKS

- HO. CO. MONUMENT #2445004
 ELEV.=192.59
- HO. CO. MONUMENT #2445005
 ELEV.=172.65

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN.

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

James M. Nelson 1/3/92
 U.S. SOIL CONSERVATION SERVICE DATE

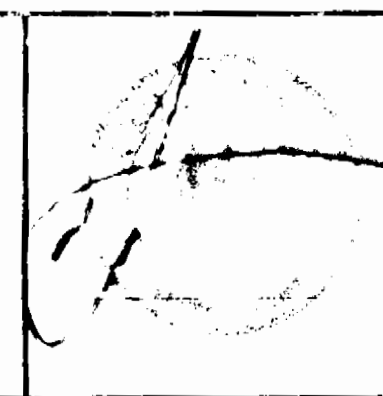
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: SDP- 91-83
John A. Olivera 1/3/92
 HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS, HOWARD COUNTY, MARYLAND
James M. Nelson 1/10/92
 DIRECTOR OF PUBLIC WORKS DATE
 1-10-92
 CHIEF, BUREAU OF ENGINEERING DATE
Robert Bauman 1-7-92
 CHIEF, BUREAU OF UTILITIES DATE
 1/9/92
 CHIEF, LAND DEVELOPMENT DIVISION DATE



GREENMAN-PEDERSEN INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 14504 GREENVIEW DRIVE, SUITE 100, LAUREL, MD. 20708
 WASH. (301) 470-2772 BALT. (301) 880-3055



DESIGNED:	REVISIONS	
D.J.	BY	NO.
	DESCRIPTION	DATE
DRAWN:		
D.J.		
CHECKED:		
R.L.C.		
DATE:		
DEC 7, 1991		

TITLE SHEET

600' SCALE MAP NO. 38 BLOCK NO.

ROWENBERRY DRIVE
 CONTRACT No. 14-3171
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1"=600'
 SHEET No. 01
 OF 2

