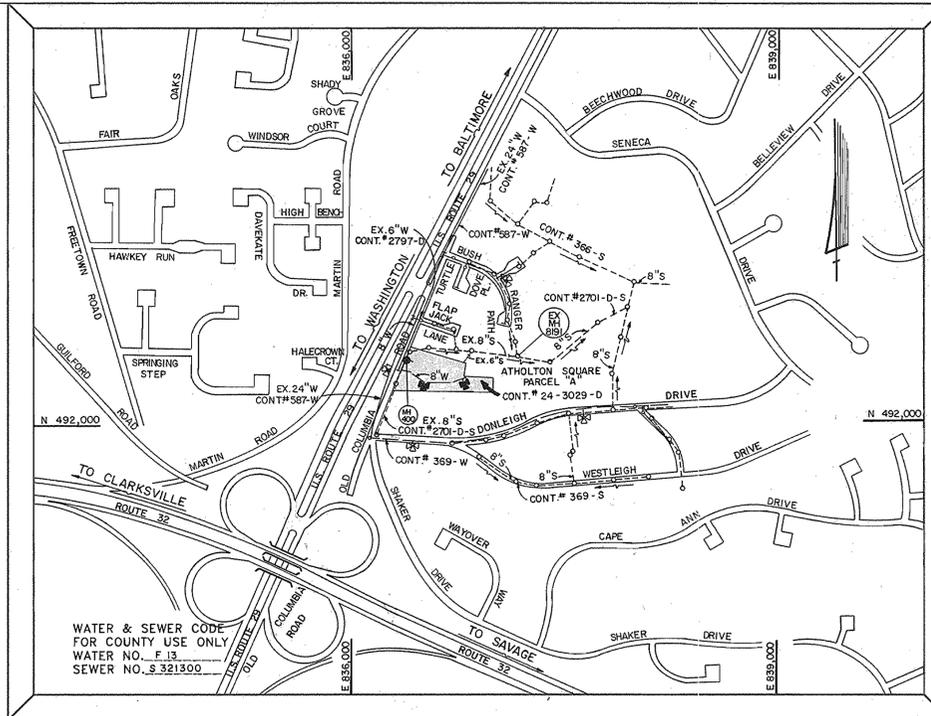


QUANTITIES			
ITEM	ESTIMATED	AS BUILT	SUPPLIER
8" WATER	808 L.F.	775 L.F.	GRIFFIN
6" WATER	43 L.F.	28 L.F.	"
FIRE HYDRANT	2 EACH	2 EACH	MUELLER
8" VALVE	1 EACH	1 EACH	"
1 1/2" WHC	125 L.F.	115 L.F.	K-COPPER
1" WHC	55 L.F.	135 L.F.	"
8" SEWER	18 L.F.	16 L.F.	JEM MANUFACTURING
MANHOLES	1 EACH	1 EACH	ATLANTIC PRE-CAST
OUTSIDE METER VAULT (3/4" METER)	1 EACH	1 EACH	"
8" TAPPING SLEEVE & VALVE	1 EACH		



TYPE OF BUILDING: COMMERCIAL/RETAIL
 NUMBER OF BUILDINGS: 15
 NO. OF WATER HOUSE CONNECTIONS: 15
 NO. OF SEWER HOUSE CONNECTIONS: 15
 DRAINAGE AREA: LITTLE PATUXENT

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 HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM
 - ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6'
 - 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 (1989 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
 - 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 C. & P. TELEPHONE COMPANY - 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION - 531-5533
 BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
 BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 859-9004
 BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
 MISS UTILITY - 1-800-559-0100
 COLONIAL PIPELINE CO. - 795-1390
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
 - 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 TREE, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., OR P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - T.B. DENOTES TEST BORING.
 - 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 FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CAN NOT BE SERVED.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN SPECIFICATIONS.
 - MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLES, FRAMES AND COVERS STANDARD DETAIL G5.15
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
 - WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
 - ALL WATER MAINS TO BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS, SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
 - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
 - DUAL WATER HOUSE CONNECTIONS SHALL BE IN ACCORDANCE WITH STD. DETAIL W 3.23.
 - INLET & OUTLET SIZE OF SERVICE SHALL BE 1 1/2" & 1" RESPECTIVELY. SINGLE WATER HOUSE CONNECTIONS SHALL BE IN ACCORDANCE WITH STD. DETAIL W 3.21 & SHALL BE SIZE 1". ALL METER SETTINGS SHALL BE SIZE 3/4".

NOTE FROM N.W. CORNER (1/4" HD) TO STA. 3+17 (8" x 6" TEE) TO BE CONSTRUCTED WITHIN 3" WIDE GRASS STRIP BETWEEN THE SIDEWALK & CURB AND GUTTER

PLAN REFERENCE NOS:
 SDP 90-106
 F 90-104

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN FOR SDP 90-06 REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

James M. Helm 3/9/90
 S.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED:
John L. Robertson 3/9/90
 HOWARD SOIL CONSERVATION DISTRICT DATE

THE CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCE BETWEEN THE PROPOSED 8" x 6" TAPPING SLEEVE & VALVE & THE EX. CONCRETE BUTTRESS @ THE EX. 1 1/2" H.D. THE EX. BUTTRESS SHALL NOT BE DISTURBED DURING INSTALLATION OF THE PROP. 6" W

NOTE RE WHCs
 AS-BUILT COMPLETED 11-8-91

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Helm 3/9/90
 DIRECTOR OF PUBLIC WORKS DATE

Robert M. Reimer 3-5-90
 CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MD 211043
 (301) 461-2855



DES:	DRWN:	CHK:	DATE:	BY:	NO.	REVISION	DATE
MJM	MJM/SH	PWK	3/9/90	JCS	1	ADD 6" W FOR FIRE PROTECTION & ADDITIONAL NOTES	12/19/92
				JCS	2	REVISE LOCATION OF W.H.C. INDICATE VAULT & EMBLIT	12/7/91
				JCS	3	REVISE LOCATION & DELETE OVERHEAD CAUDOPY	12/7/91
				JCS	4	ADD EXTENSION OF PRIVATE 8" S. MH=403 TO MH=404	12/7/91
				JCS	5	DELETE PRIVATE SEWER FROM BEHIND UNITS 1015	12/7/91
				JCS	6	REVISE LOCATION OF 8" W ALONG OLD COLUMBIA RD	12/7/91
				SFH	7	REVISE WHC TO BUILDING # 1.	7/25/90

PLAN
 WATER & SEWER MAINS

600' SCALE MAP NO. 36 BLOCK NO.

**ATHOLTON SQUARE
 PARCEL "A"**
 CONTRACT NO. 24-3029-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 2

