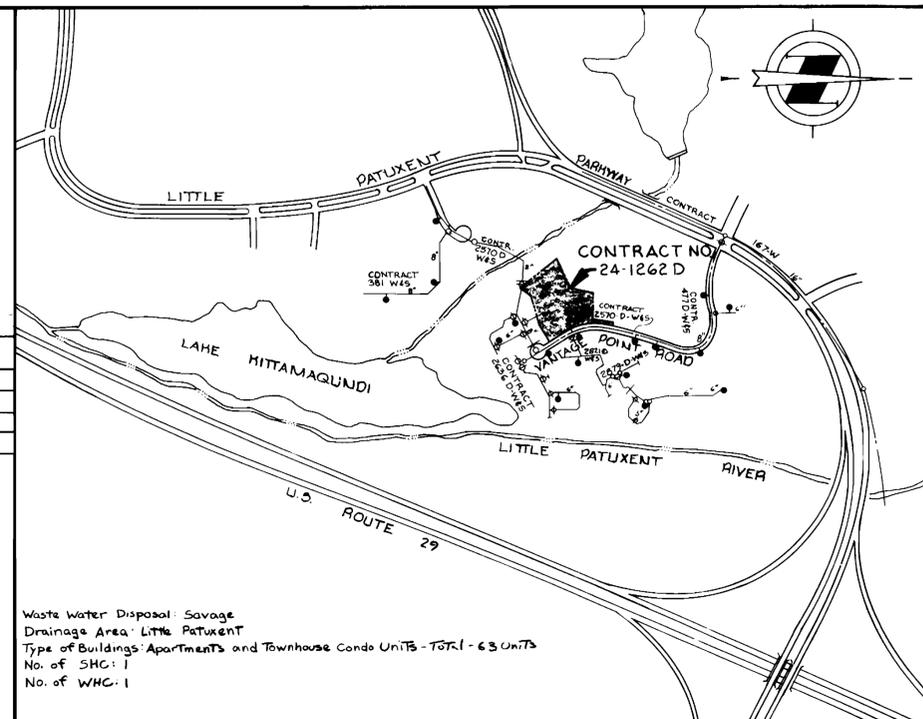


BENCH MARKS

B.M. - F.H. 332.00
 Fire Hydrant Approx. 70'±
 North of Driveway on
 East side of Vantage Point
 Rd.

STRUCTURE SCHEDULE						
NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION	
SANITARY SEWERS						
S-1	Std. Precast Manhole	G5.12	309.50	302.50	See Plan	
S-2	Std. Precast Manhole	G5.12	309.50	303.04	303.02	See Plan



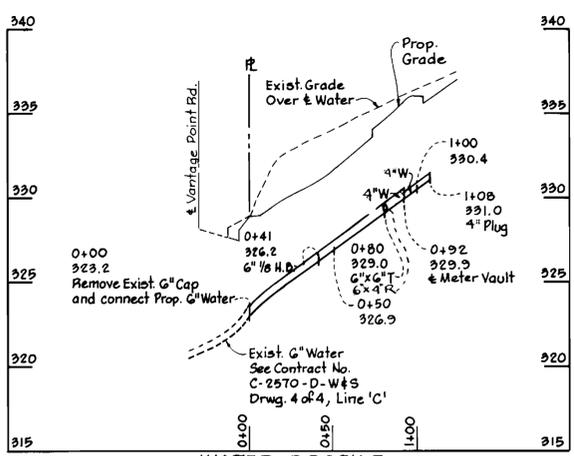
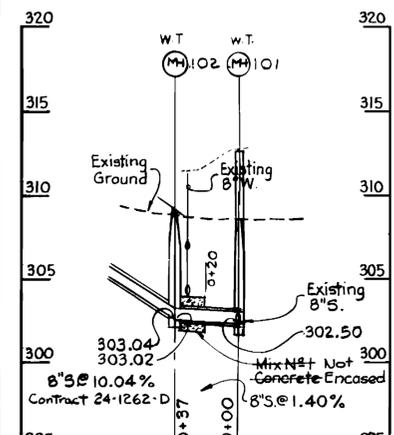
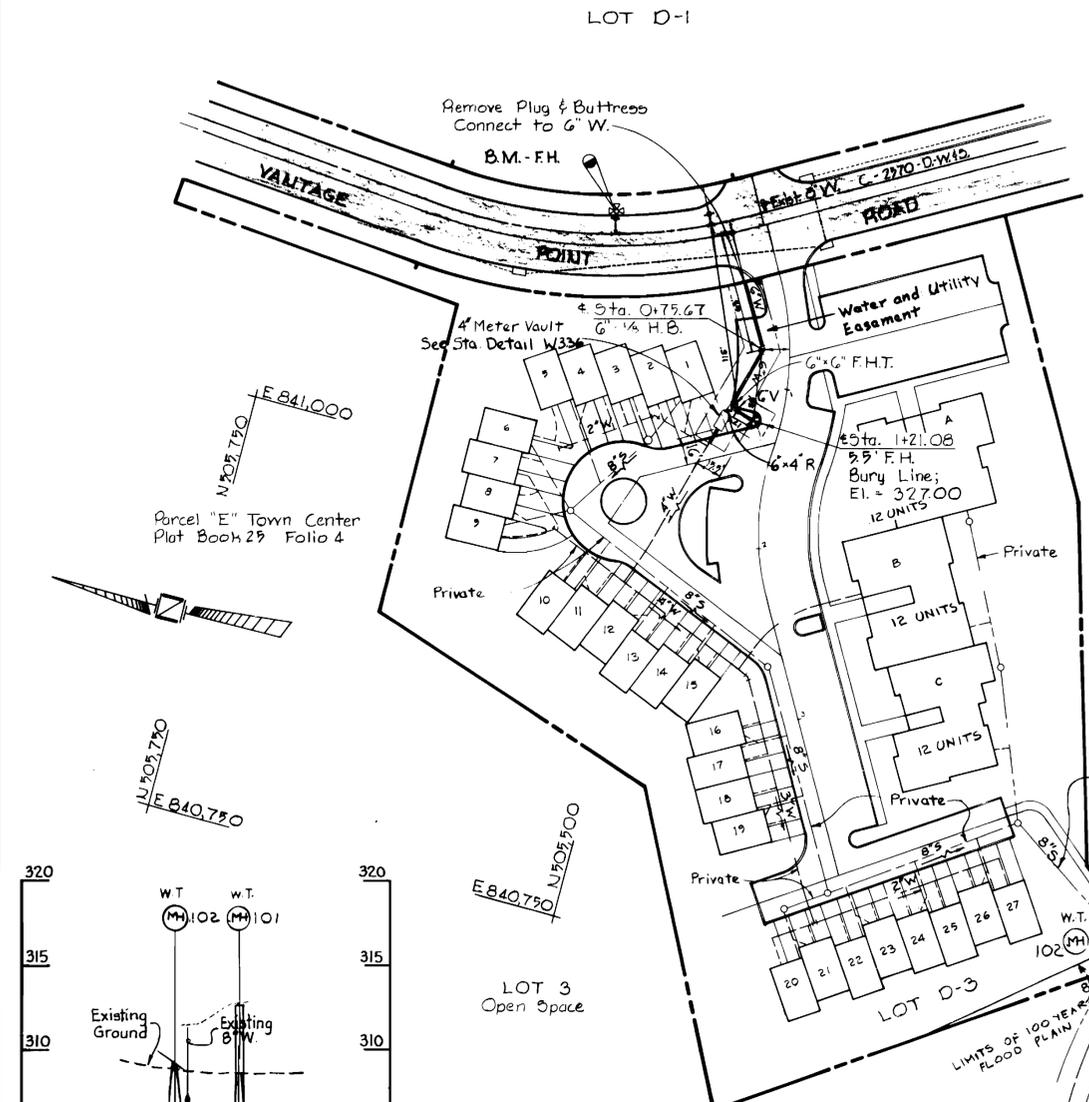
Waste Water Disposal: Savage
 Drainage Area: Little Patuxent
 Type of Buildings: Apartments and Townhouse Condo Units - Total - 63 Units
 No. of SHC: 1
 No. of WHC: 1

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 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.
- FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
- 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 HIGHWAYS ADMINISTRATION - 531-5533
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE - 685-0123.
 - BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE - 685-0123.
 - "MISS UTILITY" - 1 - 559-0100
 - CHESAPEAKE AND POTOMAC (C&P) TELEPHONE COMPANY - 393-3648.
 - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 1 - 865-3803.
 - COLONIAL PIPELINE COMPANY - 781-4641.
 - BUREAU OF UTILITIES HOWARD COUNTY - 992-2366.
- ALL WATER MAINS SHALL BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- BLOCK ALL FITTINGS WITH CONCRETE.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS 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 SECTIONS 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- 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.
- 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 95.52.
- ALL MANHOLE FRAME AND COVERS SHALL BE SET 0.5' ABOVE EXISTING GRADE WHERE SHOWN IN PROFILE. SEE DETAIL 95.41.
- ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FROM AERIAL PHOTOGRAPHY PREPARED BY MAPS AND INC., AND VERIFIED BY FIELD SURVEY IN SEPTEMBER 1983.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL WATER HOUSE CONNECTIONS SHALL BE 1" UNLESS OTHERWISE NOTED.
- * THE HORIZONTAL DISTANCE BETWEEN WATER HOUSE CONNECTION AND SEWER HOUSE CONNECTION SHOULD BE 10-FEET.

QUANTITIES				
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER	
8" Sewer LF	37'	34.5	PVC D&P W&S Supp.	
Manholes Ea.	2	2	Precast Atlantic Conc.	
6" Water LF	90'	96.25	DIP D&P W&S Supp.	
Fire hydrants Ea.	1	1	D&P "	
4" Meter Vault Ea.	1	1	Precast Conc. Form	
4" water	20'	20	DIP D&P W&S Supp.	
6" x 4" R	1	1	DIP D&P "	
W.T. Frame & Con.	-	2	D&P "	



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE: [Signature]
 DATE: 7-12-84
 U.S. SOIL CONSERVATION SERVICE

VANTAGE POINT TOWN CENTER LIMITED PARTNERSHIP II
 co. GENERAL AMERICAN REAL ESTATE
 OWNER
 9050 RED BRANCH ROAD
 COLUMBIA, MARYLAND 21044
 SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS: [Signature] 9-28-84
 CHIEF OF BUREAU OF UTILITIES: [Signature] 9-28-84

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND
 CHIEF OF ENGINEERING: [Signature] 9-28-84
 CHIEF OF LAND DEVELOPMENT DIVISION: [Signature] 9-28-84

DES:					
DRN:					
CHK:					
DATE:	BY	NO.	REVISION	DATE	

PLAN & PROFILE OF WATER & SEWER MAINS
 600' SCALE MAP NO. 30 BLOCK NO. 20

COLUMBIA TOWN CENTER
 SECTION 7, AREA 7
 5TH ELECTION DISTRICT HOWARD CO. MD
 CONT - 24-1262-D
 SCALE 1"=50'
 SHEET 1 OF 1