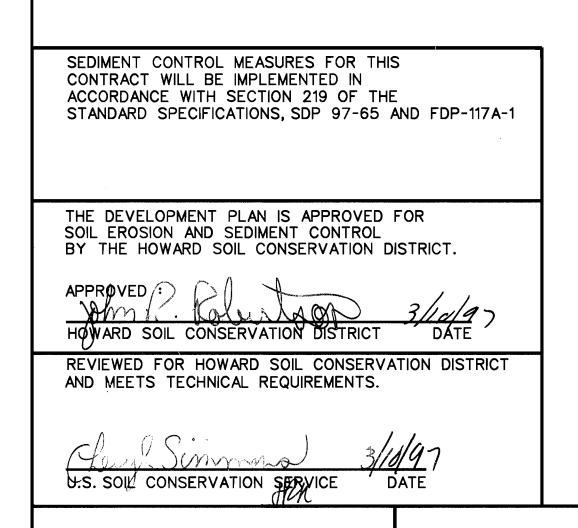
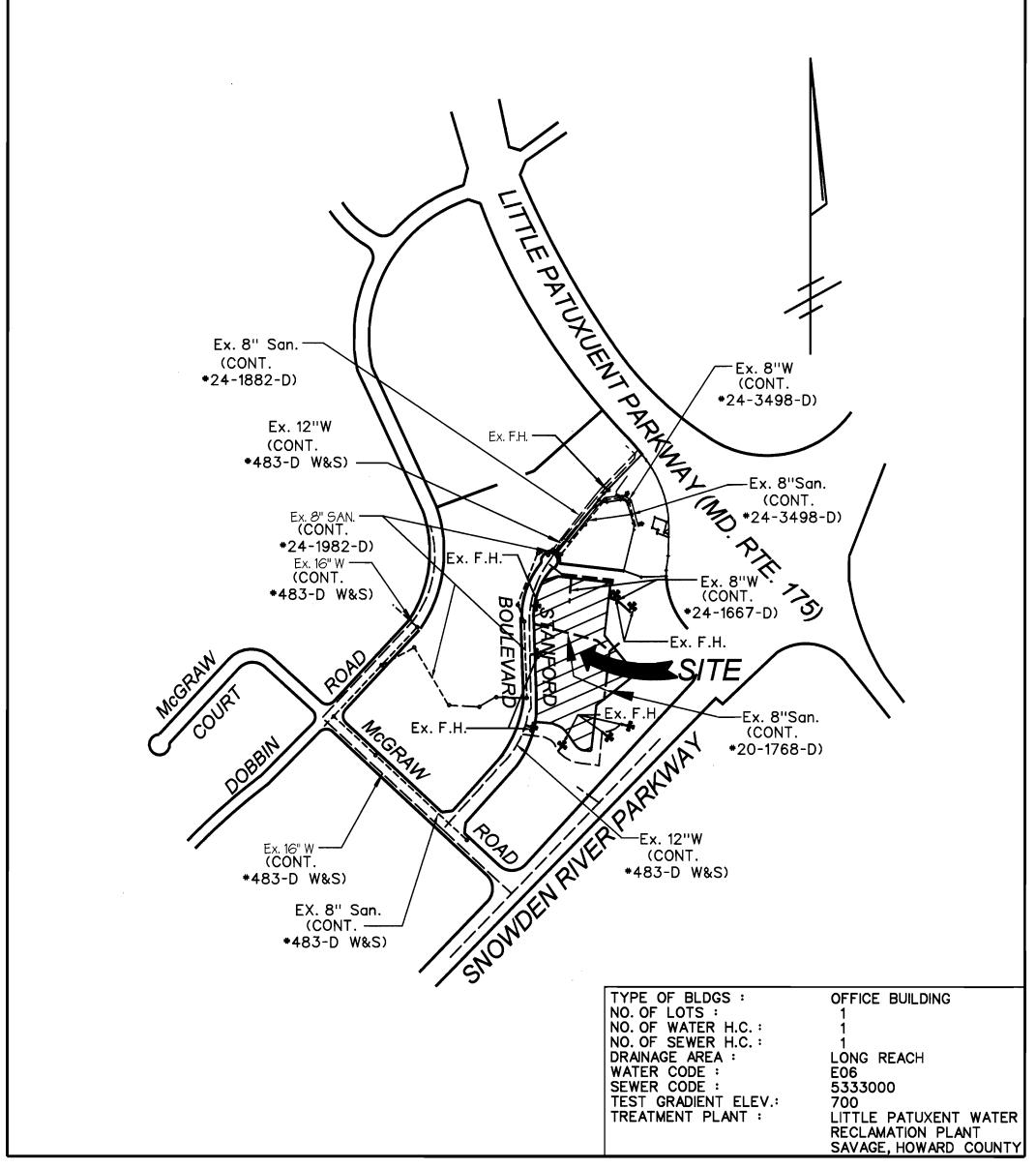
GENERAL NOTES

- 1. 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.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 4. All pipe elevations shown are invert elevations.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel 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 bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 6. For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- 7. Where test pits have been made on existing utilities, they are noted by the symbol **a** 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.
- 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration Baltimore Gas & Electric Co. Contractor Services Baltimore Gas & Electric Co. Underground Damage Control 850-4620 787-9068 1-800-257-7777 Miss Utiltity Colonial Pipeline Co. Bureau of Utilities, Howard County Department of Public Works 313-4900

- 9. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- 10. All fill areas within future roadway and under structures to be compacted to a minimum of 95% compaction as determined by AASHTO T-180.
- 11. Valves adjacent to tees shall be strapped to tees.
- 12. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 13. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise
- 14. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- 15. Fire hydrants shall be set to the bury line 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 shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- 16. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.
- 17. The contractor shall not operate any water main valves on the existing
- 18. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- 19. All water mains shall be D.I.P. and P.V.C. unless otherwise noted.
- 20. All manholes shall be 4'-0" inside diameter unless otherwise noted. 21. Manholes must be precast concrete structure.
- 22. Manholes shown with 12" and 16" area are for brick manholes only.





LOCATION MAP

SCALE : 1" = 600'

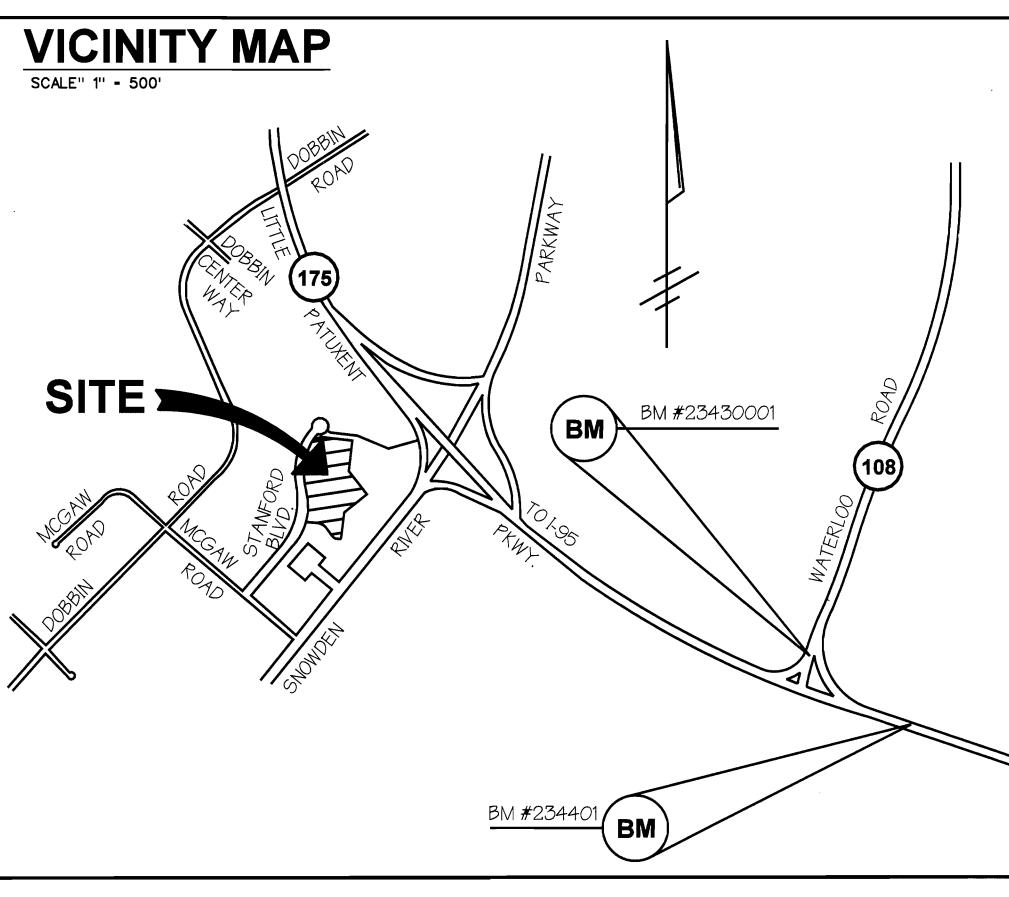
WATER & SEWER CONSTRUCTION PLANS COLUMBIA CORPORATE PARK

PARCEL A-34

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 24 - 3605 - D

<u>IN</u>	INDEX OF SHEETS			
SHEET NO.	TITLES			
1	COVER SHEET, GENERAL NOTES & LOCATION MAP			
2	PLAN VIEW			
3	WATER & SEWER MAIN PROFILES			



BENCHMARKS:

BM +234401 ELEVATION: 309.49' STANDARD CONCRETE MONUMENT SET FLUSH SURFACE N 491333.018, E 858206.723

BM +23430001 ELEVATION : 288.24' 34" REBAR SET 0.3" BELOW THE SURFACE N 492140.801, E 857226.671

QUANTITIES						
	QUANTITIES	AS-BUILT				
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER		
8" Sanitary	555 L.F.	556 L.F.	PVC 5DR - 35	J.M. MANUFACTURING/SUPPLY CO.		
Sanitary Manholes (G 5.01)	4 Each ∕∆	4 EA.	SANITARY PRECAST	ATLANTIC CONCRETE PRODUCTS		
6" D.I.P. Water Main	11 L.F.	10L.F.	D. I.P. CL - 52	U.S. PIPE F FOUNDRY BELAIR RD CO.		
8" DIP Water Main	13 L.F.	-				
8" DI.P. SANITARY	40 L.F.	40 L.F.	TYTON JOINT CL58	U.S. PIPE & FOUNDRY BELAIR RD		
NAME OF UTILITY CONTRACTO	PR:					
SURVEY AND DRAFTING DIVISI	ON AS-BUILT DA	TE				

BY	NO.	REVISION		DATE
G.W.S.	/2 \	ADDED 1 MANHOLE		-
K.C.I	3	ASBUILT QUANTITIES ADDED TO PLAN		OCT 14,1998
			_	
			-	

DESIGNED : RAM **GEORGE W. STEPHENS. JR.** DRAFTED : KE AND ASSOCIATES, INC. **GENERAL NOTES & LOCATION MAP** CHECKED : PRC Civil Engineers and Land Surveyors 658 Kenilworth Drive, Suite 100

PUBLIC WATER & SEWER MAIN COLUMBIA CORPORATE PARK PARCEL A-34

HOWARD COUNTY, MARYLAND ELECTION DISTRICT *6

JANUARY 13, 1997 SHEET 1 OF 3

600 SCALE MAP NO. 36

CONTRACT NO. 24 - 3605 - D

COVER SHEET,

BLOCK NO. 23 & 24

P/N 8314- waterplan.s01

CHIEF, BUREAU OF UTILITIES ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Towson Maryland 21204

(410) 825-8120

