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SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE OF WATER & SEWER MAINS

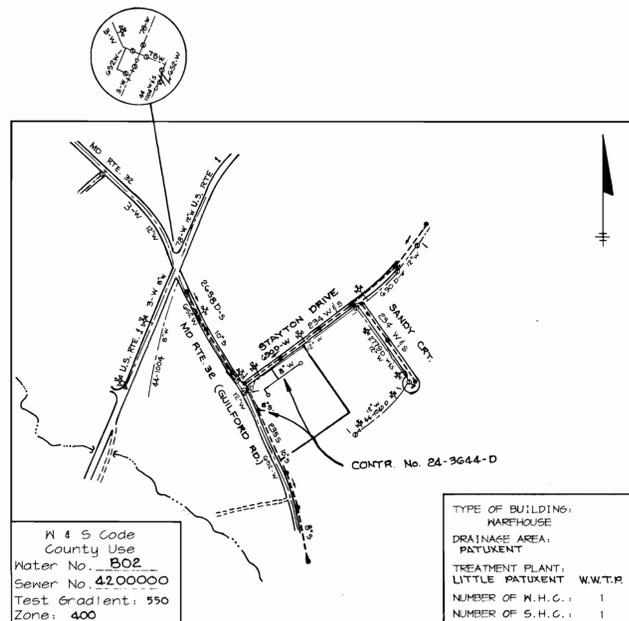
WATER & SEWER EXTENSIONS STAYTON STATION

6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3644-D

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 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.
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	531-5533
Baltimore Gas & Electric Co. Contractor Services	850-4620
Baltimore Gas & Electric Co. Underground Damage Control	787-9068
Miss Utility	1-800-257-7777
Colonial Pipelines Co.	785-1340
Bureau of Utilities, Howard County Department of Public Works	313-4400
9. 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.
10. 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.
11. All water mains to be D.I.P. Class 52 unless otherwise noted.
12. Tops of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
13. Valves adjacent to trees shall be strapped to trees.
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 not operate any water main valves on the existing water system.
17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
18. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
19. All manholes shall be 4'-0" inside diameter unless otherwise noted.
20. Force mains shall be D.I.P. only.
21. Manholes shown with 12" and 16" walls are for brick manholes only.
22. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 65.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
23. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
24. Manholes can be either brick or precast concrete structures.
25. Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
26. The fire hydrant shall be installed as per standard detail N.1.11.
27. Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
28. For sprinkler systems, all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter.
29. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five (5) 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 DFN requirements per Section 18.114(a) of the Howard County Code.



QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WATER	472 LF	472 LF	C.I.P.	GRIFPIN PIPE
6" WATER	46 LF	46 LF	D.I.P.	GRIFPIN PIPE
12'x8' T.S. & V.	1 EA.	1 EA.	STAINLESS STEEL CAST IRON GATE VALVE	KENNEDY VALVE
8" VALVE	3 EA.	3 EA.	C.I. GATE VALVE	KENNEDY VALVE
8"x 1/2" V.B.	4 EA.	4 EA.	D.I.P.	TYLER/UNION
8"x 8" T	2 EA.	2 EA.	D.I.P.	TYLER/UNION
8"x 6" T	1 EA.	1 EA.	D.I.P.	TYLER/UNION
6" VALVE	2 EA.	2 EA.	C.I. GATE VALVE	KENNEDY VALVE
FIRE HYDRANT	2 EA.	2 EA.	CAST IRON	KENNEDY
8" SEWER	10 LF	8 LF	P.V.C.	UPONOR/CO.
8"x 6" REDUCER	1 EA.	1 EA.	D.I.P.	TYLER/UNION

NAME OF UTILITY CONTRACTOR: **FERGUSON TRENCHING**

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SDP- 98-28 & CP- 98-23

CHECKBOX

AS-BUILT DATE: **02/23/98**

SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and meets technical requirements.

Cheryl Sumner 9/29/97
NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Shuff 9/29/97
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Michael A. DiGianniello 9-24-97
CHIEF, BUREAU OF UTILITIES DATE

Ham 9/29/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

RIEMER MUEGGE & ASSOCIATES, INC.
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Tel 410.997.8900 fax 410.997.9282
97255, W.S.I. DRG

J. Parekh
PROFESSIONAL ENGINEER
JAYKANT D. PAREKH # 19148

DES:	REP				
DRN:	REP				
CHK:	CJR				
DATE:	02-27-97				
BY:	NO.	REVISION	DATE		

TITLE SHEET

600' SCALE MAP NO. 48 BLOCK NO. 1,7

WATER & SEWER RESULTS

STAYTON STATION
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 24-3644-D

SCALE AS SHOWN

SHEET 1 OF 2

