SHEET INDEX	
SHEET NO.	ITEM
	TITLE SHEET
2	PLAN OF A WATER AND SEWER MAIN
3	PLAN AND PROFILE OF A WATER AND SEWER MAIN
4	PROFILES OF A SEWER MAIN

BENCH MARKS

Elev. 482.29 B.M. # Ho Co 2743010-R 3/4" Rebar 0.4 Below Surface 34.7" South of Curb On Maryland Route 108, 175' + East Of & Of Phelps Luch Prive

B.M. Ha Co 2743009 Elav. 530.07 Conc. Manument @ Surface 49'± East of Northwest Drive Of Howard High School On North Side Of Maryland

SEDIMENT CONTROL CONSTRUCTION NOTES

. All Sediment Controls Structures will be installed in accordance with "The Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas "as prepared by the U.S. Department of Agriculture Soil Conservation Service.

2. Fertilizer and lime rates may be changed through authorization by the Howard Soil Conservation

District if soil tests determine a reduction in the specified rates is justified.

3. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

4. References called for on the sediment control construction plan and details are made to "The Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."

PERMANENT SEEDING NOTES

Final stabilization will take place as soon as possible as weather conditions permit, as follows: A. Apply dolomitic limestone at the rate of 2 tons per ocre (one ton per acre if application of ton per acre made

B. Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre harrow or disc lime and 0-20-20 fertilizer into the soil to a minimum depth of 3" lawns or high maintenance areas will be dragged and leveled with a York rake. At the time of seeding apply 400 pounds of 30-0-0 ureaform fertilizer and 500 lbs. of 10-20-20 or equivalent fertilizer per acre.

C. Seed with a mixture of certified "Merion" Kentucky Bluegrass - 40 lbs. per acre; common Kentucky Bluegrass @ 40 lbs. per acres; Red Fescue, Pennlawn or Jamestown @ 20 lbs. per acre

D. Mulch with unweathered small grain straw at the rate of 1/2 to 2 tons per acre and anchor with a

cutback asphalt or emulsified asphalt at the rate of 5 gallons per 1000 square feet.

E. Seed all slopes with a mixture of certified Kentucky 31 tall fescue @ 50 lbs. per acre and inoculated Korean Lespedeza @ 15 lbs. per acre.

SEQUENCE OF CONSTRUCTION

. Construction shall begin after grading permits are issued under F84-174 or GP84- and the sediment basin is constructed by others. 2. Install silt fence as indicated.

6/20/84

CHIEF LAND DEVELOPMENT DIVISION DATE

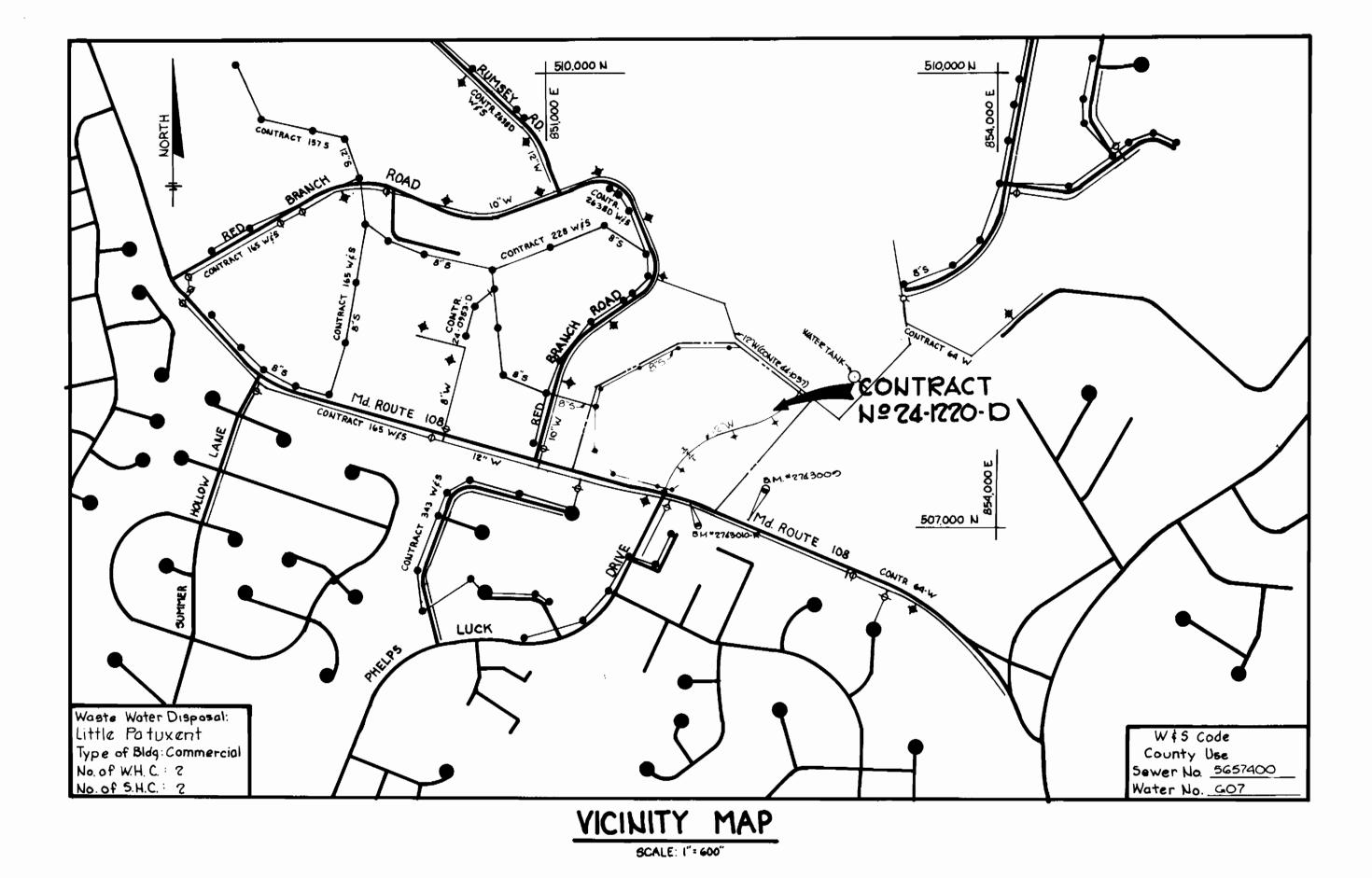
DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

3. Construct Sanitary Sewer storing excavated material on the uphill side of the trench. 4. Stabilize all restored thench areas outside the sediment basin area in accordance with the

permanent seeding notes.

5. Upon approval by the sediment control inspector, remove the silt fence.



EXECUTIVE PARK

CONTRACT NO. 24-1220-D HOWARD COUNTY, MARYLAND

Specifications (F-84-174) Howard Soil Conservation District: Reviewed for Howard Soil Conservation District and meets technical requirements. 6-20-84 Ds Soil Conservation Service This plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District

Howard Soil Conservation District

Sediment control measures for this contract will be implimented in accordance with Article 15 of the

> THE RIEMER GROUP INC. 3105 HEALTH PARK DRIVE ELLICOTT CITY, MARYLAND 21043

DES: DAM DRN: TJM TITLE SHEET WCW | Λ | Revised V.F. of Manholes in Quantities ARTHUR E. MUEGGE DATE: 4/13/84 REVISION DATE 600' SCALE MAP NO. 30 BLOCK NO. 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

2. All horizontal controls are based on Maryland State Coordinates.

3. All vertical controls are based on U.S.G.S. Datum. 4. All pipe elevations shown are invert (delevations.

5. 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 priced bid for excavation and backfill.

6. For details not shown on the drawings use Howard County Standard Details.

7. For materials and construction methods use Howard County Standard Specifications.

8. 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.

9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.

531-5533 a. State Highway Administration b. Baltimore Gas & Electric Company - Underground Electric Distribution 685-0123 C. Baltimore Gas & Electric Company - Underground Gas Distribution 685-0123 Customer Service 243-5621 d. Engineering - Damage Control" 1-559-0100 e Miss Utility 725-9976 f. Chesapeake & Potomac (C&P) Telephone Company a American Telephone & Telegraph-Cable Location Division 393-3553

781-4641

992-2366 i. Bureau of Utilities Howard County 10. 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.

11. 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 excavation and backfill.

12. 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 Operations. 13. All water mains to be D.I.P. unless otherwise noted.

14. Top of all water mains to have a minimum of 31/2 cover unless otherwise noted.

15. Valves adjacent to tees shall be strapped to tees.

16. Block all fittings with concrete.

h. Colonial Pipeline Company

17 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 Section 1003 \$ 1008 of the General Requirements for Water \$ Sewen.

18. All water house connetions shall be for an inside meter setting. 19. The contractor shall not operate any water main valves on the existing system.

20. For all copper water house connections utilize flared type fittings only. 21. All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C. or A.C.P. Class 2400 unless otherwise noted.

22. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.

23. All manholes shall be 4'0" inside diameter, unless otherwise noted. 24. Manholes shown with 12" and 16" walls are brick manholes only.

25. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52 Volume IV. Where watertight manhole frame and cover is used, set top of frame 1-6" above

26. House(5) with the symbol C.N.6." indicates the cellar can not be served.

27. All water house connections shall have a minimum vertical clearance of 12" above all sanitary sewer

28. All sanitary sewer house connections shall have a minimum vertical clearance of 12" below all water

29. Profile stations shall be adjusted as necessary to conform to Plan dimensions.

30. No pipe shall be laid until lines of excavation have been brought to subgrade. 31. Additional sediment control for this contract is provided under GP-84-174

> QUANTITIES ESTIMATED AS BUILT MATERIAL SUPPLIER
> 1238 L.F. 1230 Griffin Pipe ITEM Griffin Pipe 8" W.H.C. Fire Hydrants Clow(T.S.)/M&H.(12"Y) 12"×12" T.S. &V. E.T.I. & G.P.K. Products 2243 8"5 115 L.F. ETI, &G.PK. 8" SHC 6" 9HC Ea.72 V.F. (10) 10 Atlantic Precast MANHOLES MEH S FA 8" V

OAKLAND EXECUTIVE PARK

ELECTION DISTRICT NO. 2

AS

SHOWN

SHEET

__ oF<u>_4</u>

CONTRACT NO. 24-1220-D

