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2	Plan of a Water and Sewer Main			
3	Profile of a Water and Sewer Main			
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SEDIMENT CONTROL CONSTRUCTION NOTES

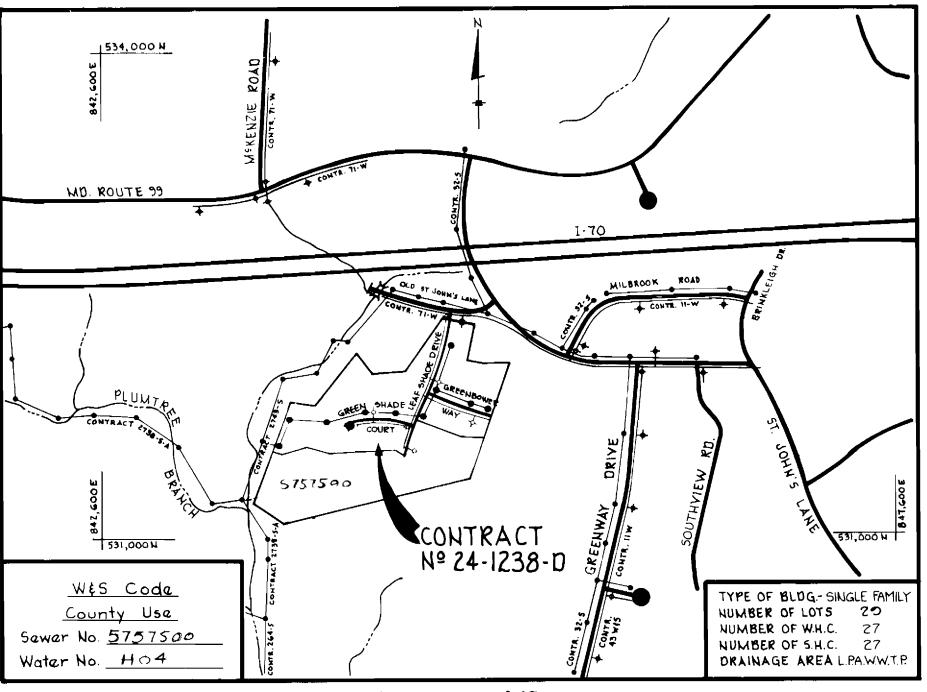
- 1. Excavated topsoil shall be kept separate from the subsoil and shall be replaced in their
- 2. References called for on the Sediment Control Construction plan and details are made to "The Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."
- 3. Straw bale dikes, stone outlet structures, temporary earth diversion berms, temporary stream access culverts, etc. shown on the plans may be added to, deleted, or adjusted as field conditions may require.
- 4. All spoil materials shall be stockpiled on the uphill side of the construction area.
- 5. All sediment control facilities 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.
- 6. All disturbed areas are to be dressed and stabilized according to the permanent seeding schedules as soon as proper weather conditions exist for the establishment of permanent vegetative cover.
- 7. 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.
- 8. All sediment control facilities to remain in place are to be maintained in operative condition until permisson for their removal has been obtained from the Howard County Sediment Control Inspector.

PERMANENT SEEDING NOTES

- Final Stabilization Will Take Place As Soon As Possible as Weather Condition Permit, As Follows: 1. Apply dolomitic limestone at the rate of 2 ton per acre (one ton per acre if application of one ton per acre was made for temporary seeding)
- 2. Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre harrow or disc lime and 0-20-20 fertilizer into the the soil to a minimum depth of 3" lawn or maintenance area will be dragged and leveled with a york rake. At the time of seeding apply 400 lbs. of 38.0.0 ureaform fertilizer and 500 lbs. of 10-20-20 or equivatent fertilizer per acre.
- 3. Seed with a mixture of certified "Merion" Kentucky Bluegrass 40 lbs. per acre; Common Kentucky Bluegrass @ 40 lbs. per acre; Red fescue, Pennlawn or Jamestown @ 20 lbs. per acre.
- 4 Seed all slope's with a mixture of certified Kentucky 31 tall fescue @ 50 lbs. per acre and inoculated Korean Lespedeza & 15 lbs. per acre.
- 5. 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 gal. per 1000 sq.ft.
- 6. Sodded swales shall be Kentucky 31 tall fescue.

SEQUENCE OF CONSTRUCTION

- 1. Install sediment and erosion control devices according to plan. 2. Clear and grub right-of-way for the construction of Sewer Plan.
- 3. Install silt fence daily along the low side of the limits of construction. This silt fence shall be removed as construction proceeds upstream when the disturbed area has been stabilized and with approval of the Sediment Control Inspector.
- 4. Complete construction of sanitary sewer main.
- 5. Restablize all disturbed areas in accordance with permanent seeding notes.
- 6. Upon approval of Sediment Control Service inspector, remove all sediment Control devices.



VICINITY MAP 5CALE: 1" : 600'

ST.JOHN'S GREEN SECTION 1 CONTRACT NO. 24-1238-D

ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND

GENERAL NOTES

- 1. Approximate location of existing mains are shown. The contractor shall take all the 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 G". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utilities company 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 the 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 II, Standard Specifications and Details for Construction. 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 utilities 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 561-2585 Baltimore Gas & Electric Co. Under Ground Damage Control - 234-5621
 - Baltimore Gas & Electric Co. Trouble Shooting 298-9013
 - Miss Utility 1-559-0100 Colonial Pipeline Co. - 795-1390
 - Bureau of Utilities, Howard County Department of Public Works 992-2366
- 9. Trees are to be protected from damage to maximum extent. Trees located within the construction strips are not to be removed or damaged by the contractor.
- 10. 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. II. 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.
- 12. All water mains to be D.I.P. unless otherwise noted.
- 13. Top of all water mains to have a minimum of 3½ cover unless otherwise noted.
- 14. Valves adjacent to tees shall be strapped to tees.
- 15. Block all fittings with concrete. 16. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawing. 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 & Sewer.
- 17. All water house connections shall be for an inside meter setting
- 18. The contractor shall not operate any water main valves on the existing system.
- 19. For all copper water house connections utilize flared type fittings only.
- 20. All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C. or A.C.P. Class 2400 unless
- 21. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior
- 22 All manholes shall 4'-0" inside diameter, unless otherwise noted. 23. Manholes shown with 12" and 16" wall are brick manholes only.
- 24. 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 finished grade.
- 25. House (s) with the symbol "C.N.S." indicates the cellar cannot be served. 26. All water house connections shall have a minimum vertical clearance of 12" above
- all sanitary sewer crossings
- 27. All sanitary sewer house connections shall have a minimum vertical clearance of 12" below all water main crossings.
- 28. Profile stations shall be adjusted as necessary to conform to Plan dimensions. 29. No pipes shall be laid until lines of excavation have been brought to subgrade.

QUANTITIES					
ITEM	ESTIMATED	AS BUILT	MATERIAL/SUPPLIER		
8″₩	862 L.F.	1037	A&P W&S Supplies		
6"W	976 L.F.	951	" " "		
6" V'5 (exclu. F.H. V'5)	2	2	u n u		
8″*8″ T.S, ¢ V.	1	1	A&P W&S Supplies		
Fire hydrant's	4	4	·/ · · · · · · · ·		
8″S	1984 L.F.	1929	g / A A		
Manholes	103 V.F.	10	Atlantic Pracast con		
3/4" W H.C.	311 L.F	336			
(" W H.C.	169 L.F.	192			
8" V	1	1	DEP WES Supplies		
8" D.I.P	187. LF				
6" PVC		677			

TITLE SHEET

Sediment Control measures for this contract will be implemented in accordance with article 15 of the specifications.

Howard Soil Conservation District: Reviewed for Howard Soil Conservation District and meets technical requirements.

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

oseth Seehm 1 45 8 1 Howard Soil Conservation District Date

ST JOHN'S GREEN SECTION ONE ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1238-D SCALE SHOWN SHEET of 4

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION DATE

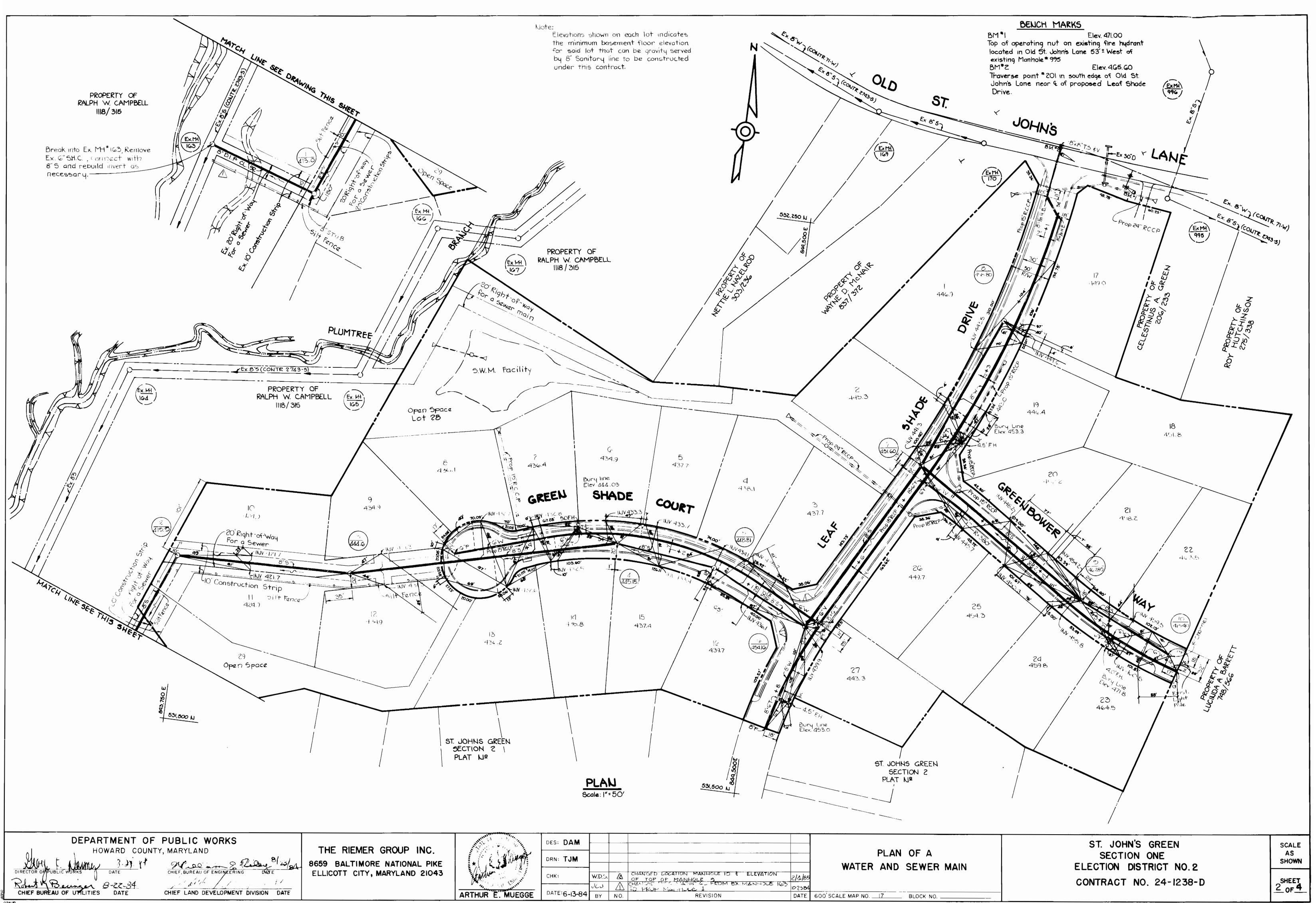
THE RIEMER GROUP, INC. 8659 BALTIMORE NATIONAL PIKE ELLIOTT CITY, 'MARYLAND 21043

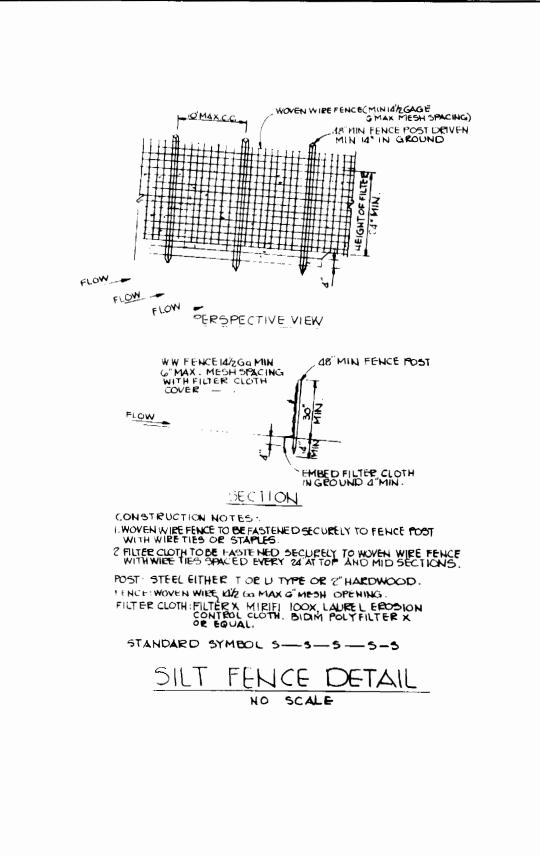
)ATE: 6-1**3-84** ARTHUR E MUEGGE

F5:DAM

REVISION

DATE 600 SCALE MAP NO



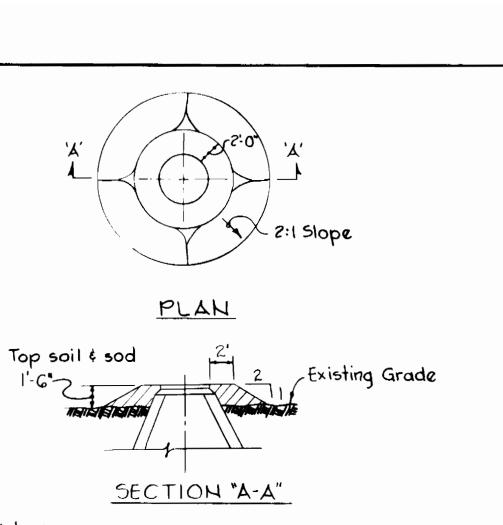


HOWARD COUNTY, MARYLAND

CHIEF BUREAU OF UTILITIES DATE

CHIEF, BUREAU OF ENGINEERING DATE

CHIEF LAND DEVELOPMENT DIVISION DATE



1.) All manhole frame and covers shall be flush with grade except when shown on Profile to be set higher than grade. 2.) Manhole frame and covers to be set higher

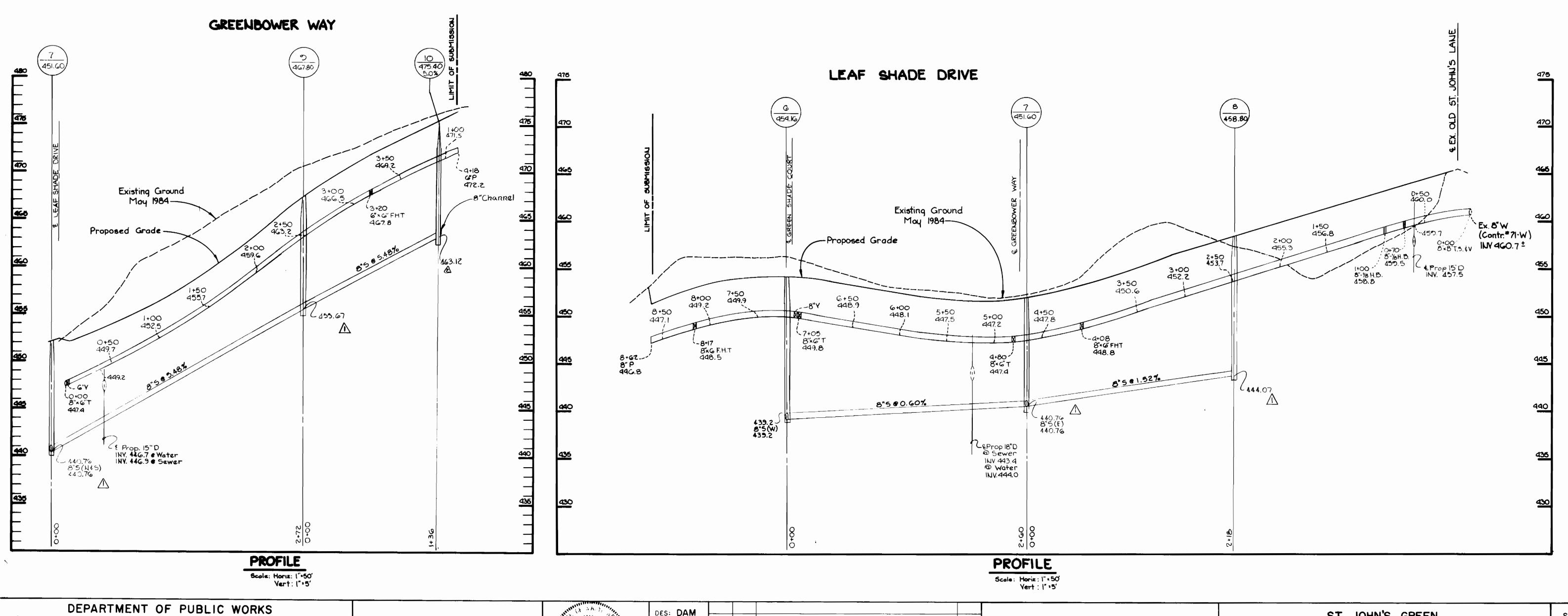
than grade shall be set in accordance with this detail.

3.) Manhole frames and covers to be set higher than 1'-6" shall be set as noted on the Profile and in accordance with this Detail.

FILL AROUND MY 1 NO SCALE

THE RIEMER GROUP INC.

8659 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043



W.RS. & CHANGED LOCATION MANHOLE IO

CHANGED INVERTS OF MANHOLES 7,59,410

REVISION

DES: DAM

DRN: TJM

√ دع

DATE:6/13/84 BY NO.

SCALE

SHEET

3 of 4

ST. JOHN'S GREEN

SECTION ONE

ELECTION DISTRICT NO.2

CONTRACT NO. 24 - 1238 - D

PROFILES OF A

DATE 600'SCALE MAP NO. __17 BLOCK NO. _

WATER AND SEWER MAIN

