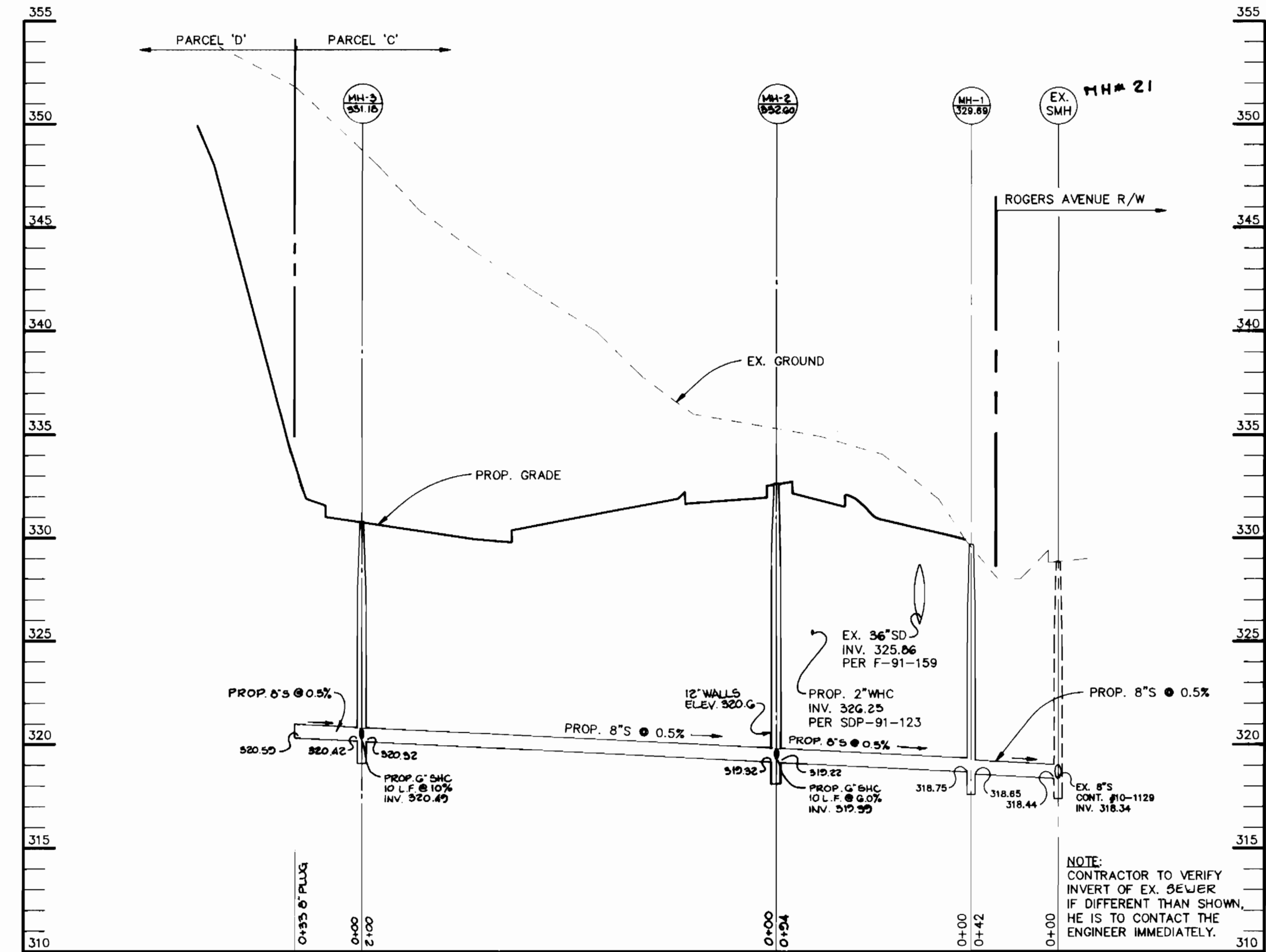


BENCH MARK
 BM # 3243002 N 527099.393; E 855619.674
 CONCRETE MONUMENT AT SURFACE OF MEDIAN, 5.5' ± SOUTH OF LEFT TURN LANE OF ROUTE 40 W, 14' ± EAST OF EAST EDGE OF CROSSOVER TO ROGERS AVENUE SOUTH.



- 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. data.
 - All pipe elevations shown are \ominus invert elevations.
 - Clear all utilities by a minimum of 6".
 - For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction, 1990 Amendments. The contractor shall have a copy of Volume IV on the job.
 - Where test pits have been made on existing utilities, they are noted by the symbol \oplus 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 verified by the contractor to his own personal satisfaction. Any damage to existing facilities due to the contractor's negligence shall be repaired at the contractor's expense.
 - The 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 and Electric Co. - Contractor Services 850-4620
 - Baltimore Gas and Electric Co. - Underground Damage Control 859-9004
 - Baltimore Gas and Electric Co. - Trouble Shooting 298-9001
 - Miss Utility 1-559-0100
 - Colonial Pipeline Co. 796-1390
 - Bureau of Utilities, Ho. Co. Department of Public Works 313-4900
 - C & P Telephone Co. 1-800-257-7777
 - 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.
 - The 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.
 - All water mains to be D.I.P. Class 52 unless otherwise noted.
 - Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
 - Valves adjacent to tees shall be strapped to tees.
 - All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
 - Fire hydrants shall be set to the bury line elevation shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1009 of the Standard Specifications.
 - The contractor shall not operate any water main valves on the existing water system.
 - All water house connections shall be for inside meter setting, unless otherwise noted on the plans or in the Specifications.
 - All service clamps are to have stainless straps.
 - All D.I.P. fittings shall be in accordance with A.W.W.A. specifications C-153 Ductile Iron Compact Fittings, 3" through 12" for water and other liquids.
 - All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. or P.V.C. 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 G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
 - House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.

QUANTITIES
SCALE: 1"=50'

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8"S	369 L.F.			
6"S	20 L.F.			
4" MANHOLE	56 V.F.			
8"W	75 L.F.			
6"W	8 L.F.			
2"W	25 L.F.			
12"x8" TS & V	1 EACH			
6" VALVE	1 EACH			
8"x6" T	1 EACH			
2" CORP. COCK & VALVE	1 EACH			
8" PLUG	1 EACH			
6" FIRE HYDRANT	1 EACH			
2" OUTSIDE METER	1 EACH			

- NOTE:**
- AN APPLICATION FOR THE OPEN CUT WILL BE MADE TO THE BUREAU OF HIGHWAYS CONTAINING AN ENGINEERED TRAFFIC CONTROL PLAN AND A SEQUENCE OF CONSTRUCTION.
 - AT LEAST ONE LANE OF TRAFFIC ON ROGERS AVENUE IS TO REMAIN OPEN DURING THE OPEN CUT OPERATION.
 - THE OPEN CUT OPERATION SHALL BE COMPLETED WITHIN 72 HRS.

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SDP-91-123, and F-91-159.

John R. Robertson 5/4/92
 HOWARD SOIL CONSERVATION DISTRICT

Review for Howard Soil Conservation District and meets technical requirements.

James M. Hulm 5/4/92
 U.S. SOIL CONSERVATION SERVICE

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

John R. Robertson 5/4/92
 HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Hulm 5.7.92
 DIRECTOR OF PUBLIC WORKS DATE

Richard E. Kelly 5-6-92
 CHIEF, BUREAU OF ENGINEERING DATE

Richard E. Kelly 4/31/92
 CHIEF, BUREAU OF UTILITIES DATE

Arthur E. Muegge 5/4/92
 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive Suite 200 Columbia, Md. 21045
 410-997-8900 FAX: 410-997-9282

ARTHUR E. MUEGGE 48707

DES: CB
 DRN: CB
 CHK: CJR
 DATE: 7-2-91

PLAN & PROFILE
 OF A WATER MAIN
 AND A SEWER MAIN

600' SCALE MAP NO. 17 BLOCK NO. 24

BROOKSIDE PARCEL 'C'
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-315G-D

SCALE AS SHOWN
 SHEET 1 OF 1