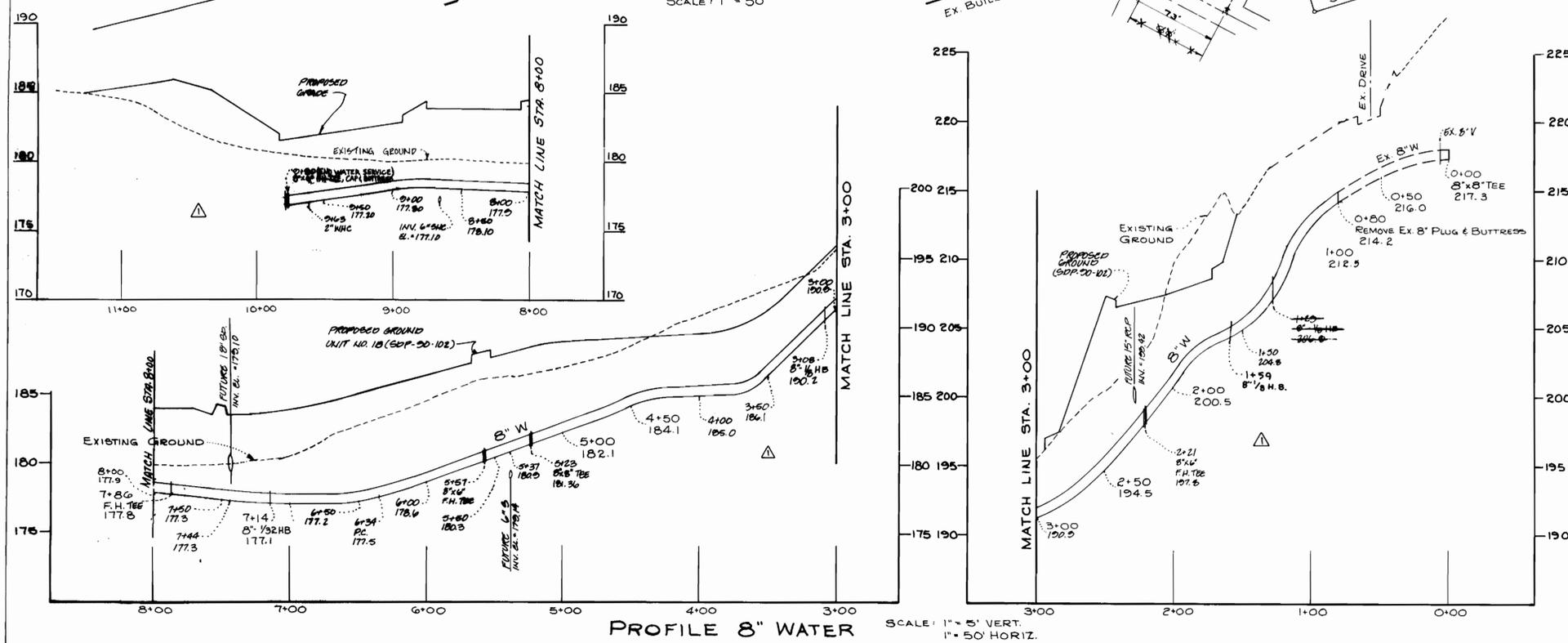
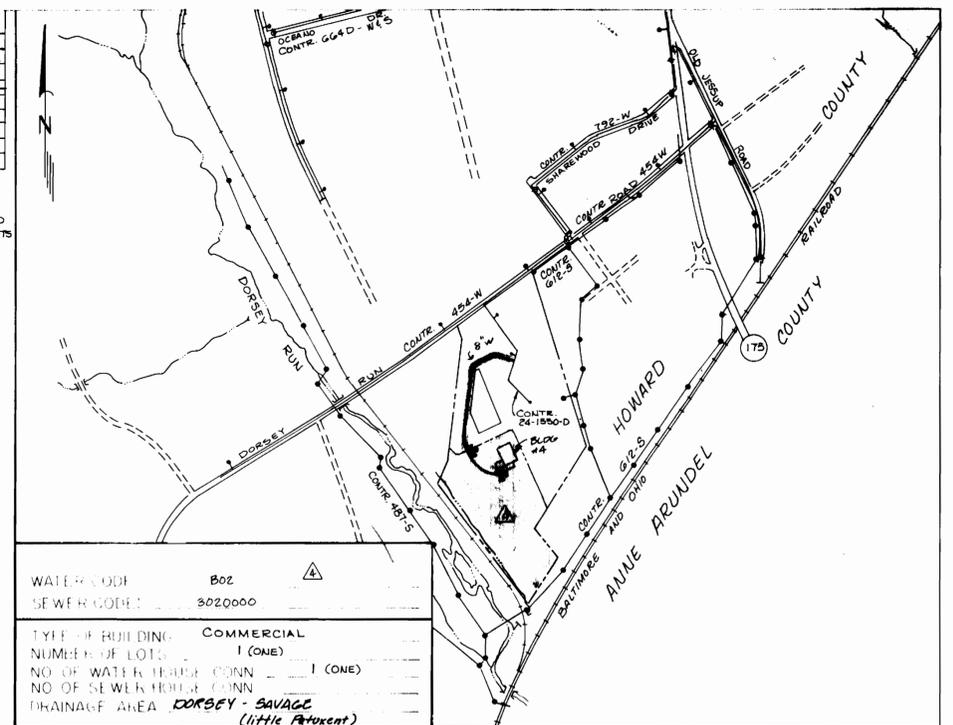


QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL SUPPLIER
8" WATER MAIN	900 L.F.	900 L.F.	ATLANTIC STATES
8" 1/8" HORIZ. BEND	2	2 EA.	TYLER PIPE
8" 1/2" HORIZ. BEND	2	2 EA.	TYLER PIPE
FIRE HYDRANT(S)	2	2 EA.	MUELLER
8" WATER MAIN	8 L.F.	8 L.F.	ATLANTIC STATES
2" W.H.C.	10 L.F.	10 L.F.	CAMBRIDGE LEE
6" VALVE	1	1 EA.	MUELLER

ALL SUPPLIED BY A&P SEWER & WATER SUPPLY

* BLOCKING IS REQUIRED BASED ON HOWARD COUNTY REQUIREMENTS FOR ALL TEES AND ANGLES.



- 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. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in the unit prices bid for construction of the main.
 6. For details not shown on the drawing 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:
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Co. - Underground Electric Distribution Customer Service - 685-0123
 - Engineering - Damage Control - 44-5621
 - Misc. Utility - 800-257-7777
 - Chesapeake & Potomac (C&P) Telephone Co. - 725-9976
 - American Telephone & Telegraph Cable Location Division - 393-3553
 - Colonial Pipeline Co. - 795-1390
 - Bureau of Utilities, Howard County - 992-2366
 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 construction of the main.
 12. Flare 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 Class 52 D.I.P. unless otherwise noted.
 14. Top of all water mains to have a minimum of 3'-6" cover unless otherwise noted.
 15. Valve adjacent to tees shall be strapped to tees.
 16. Block all fittings with concrete.
 17. Invert 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.
 18. All water house connections shall be for an inside meter setting.
 19. The contractor shall not operate any water main valves on existing system.
 20. For all copper water house connections, utilize flare type fittings only.
 21. All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. Class 2400 or P.V.C. 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. Force mains shall be D.I.P. only.
 25. Manholes shown with 12" and 16" walls are brick manholes only.
 26. Manholes designated W in plan and profile shall have watertight frame and covers, Standard Detail C5-52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade, Standard Detail C5-4.
 27. Houses with the symbol "C.N.S." indicates that cellar cannot be served.
- SEDIMENT CONTROL NOTES**
1. For sediment control for this contract, see the approved road construction plans.
 2. Materials from trench excavation to be placed on uphill side of trench.
 3. Contractor to backfill, compact, and stabilize immediately after installation of pipe. No trenches will be left open at the end of each day, except that portion where work has stopped.
 4. Any sediment control facilities encountered during pipe construction to be returned to original condition immediately upon completion of that portion of work.
 5. Sediment control measures for this contract will be implemented in accordance with Section 219 of the Howard County Standard Specifications and as per SDP-20-207.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

James M. Helm 9/7/89
SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Helm 9/1/89
SIGNATURE DATE

William J. Kelly 9-2-89
CHIEF, BUREAU OF UTILITIES

Paul J. Brown 9/8/89
CHIEF, LAND DEVELOPMENT DIV.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

Stephen A. Huber 7-7-89
APPROVED DATE

HOWARD S.C.D.

KIDDE CONSULTANTS INC.
ENGINEERS, PLANNERS & SURVEYORS
1100 WEST STREET SUITE 100
LAUREL, MD 20701
(301) 792-8046

JOHN E.C. PATMORE M.E. PE No. 8978

J.M.M. SH
J.M.M. P.Z.
RA/D.W. P.Z.
Oct, 1988

RELOCATED FIRE HYDRANT @ END OF LINE
CHANGED VICINITY MAP & QUANTITIES CHART
ADDED PARKING AROUND BLDGS 416
SHORTENED WATERLINE 1 ADDED NOTEG
CHANGED ALL WATERLINE PROFILES

PLAN AND PROFILE
8" WATER
CONTRACT NO. 44-1885-D

DORSEY RUN PARK
BUILDING NO. 4
PARCEL 5
6th ELECTION DISTRICT
HOWARD COUNTY, MD.

TAX MAP 48

SCALE AS SHOWN
SHEET 1 OF 1