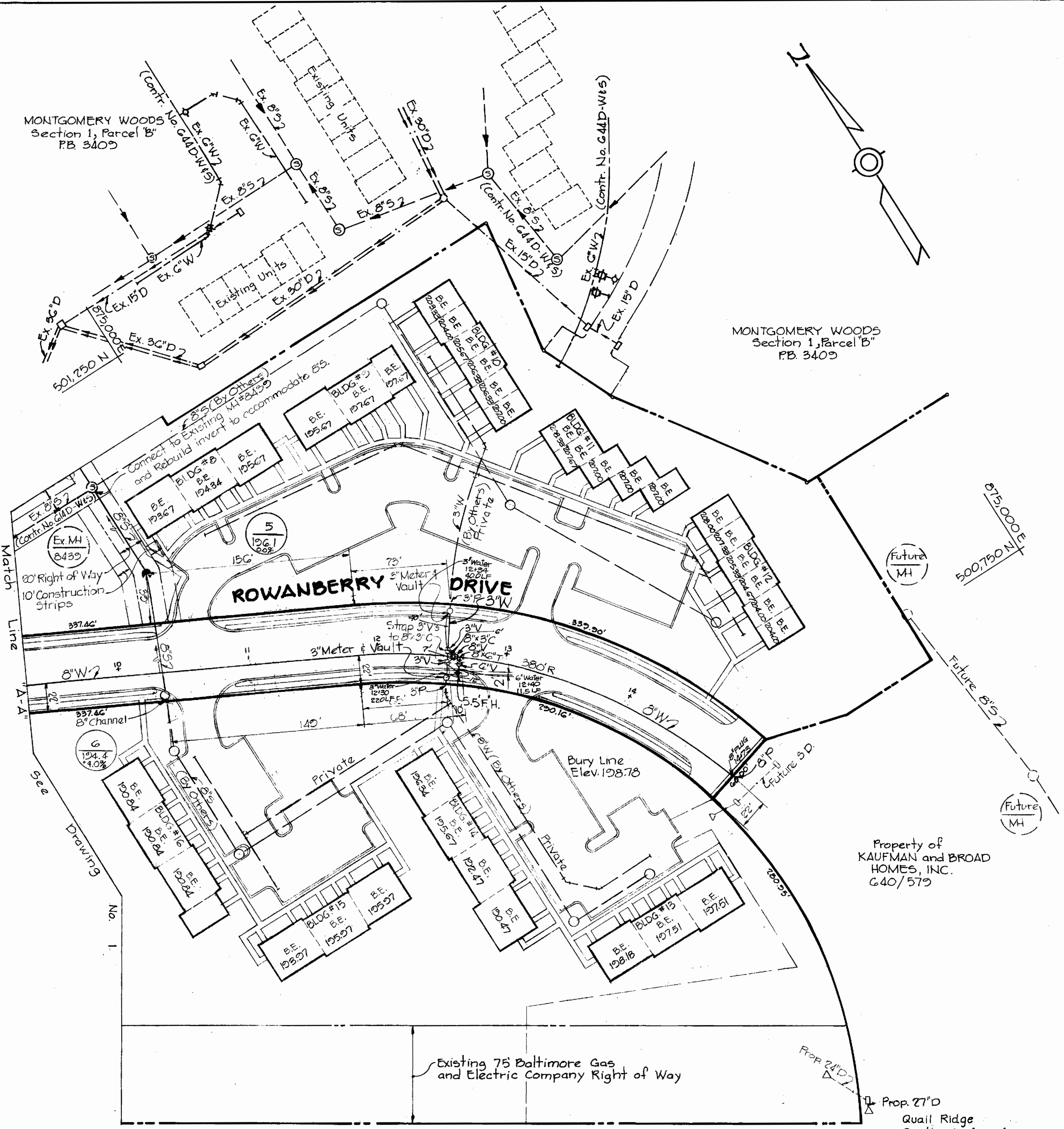


GENERAL NOTES

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. Datum.
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 unit prices 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:
 - a. State Highway Administration 531-5533
 - b. Baltimore Gas and Electric Company
Underground Electric Distribution Customer Service 685-0123
 - c. Baltimore Gas and Electric Company
Underground Gas Distribution Customer Service 685-0123
 - d. Engineering "Damage Control" 234-5621
 - e. "Miss Utility" 1-552-0100
 - f. Chesapeake and Potomac (C&P) Telephone Company 725-3376
 - g. American Telephone and Telegraph-Cable Location Division 303-3553
 - h. Colonial Pipeline Company 781-4641
 - i. Bureau of Utilities Howard County 302-2366
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 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 C.I.P. or D.I.P. unless otherwise noted.
14. Top of all water mains to have a minimum of 3/4" cover unless otherwise noted.
15. Valves adjacent to trees shall be strapped to trees.
16. Block all fittings with concrete.
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 5-15 of the Standard Specifications.
18. The contractor shall not operate any water main valves on the existing system.
19. All sewer mains shall be C.S.P.X., V.C.P.X., or A.C.P. Class 2400 unless otherwise noted.
20. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
21. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
22. Force mains shall be D.I.P. only.
23. Manholes shown with 12" and 16" walls are brick manhole only.
24. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 5-12 (RCR-63A) 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 that cellar can not be served.
26. For Private Water and Sewer plans, profiles and details, see Site Development Plan SDP 81-87.
27. Each Service Connection shall have an interior pressure reducing valve installed.
28. Water mains and water house connection lines must be placed, so as to have at least one foot separation from the sanitary sewer and sewer house connections, as they pass above it.

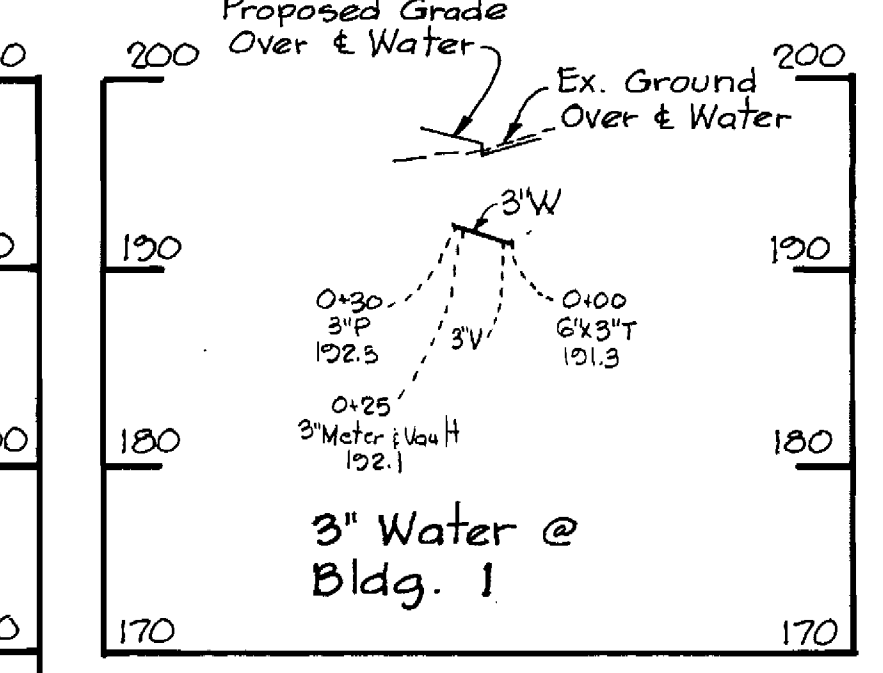
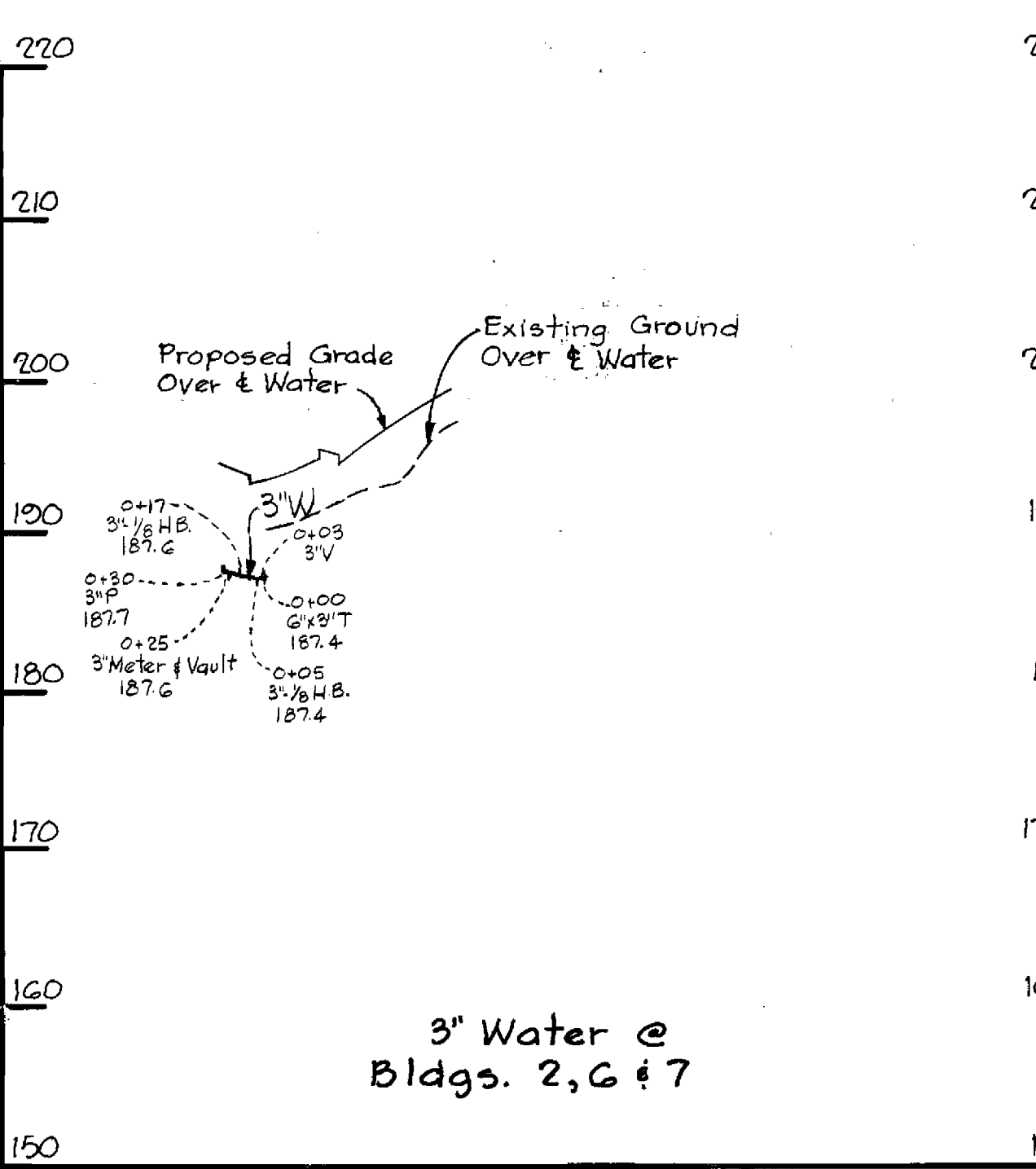
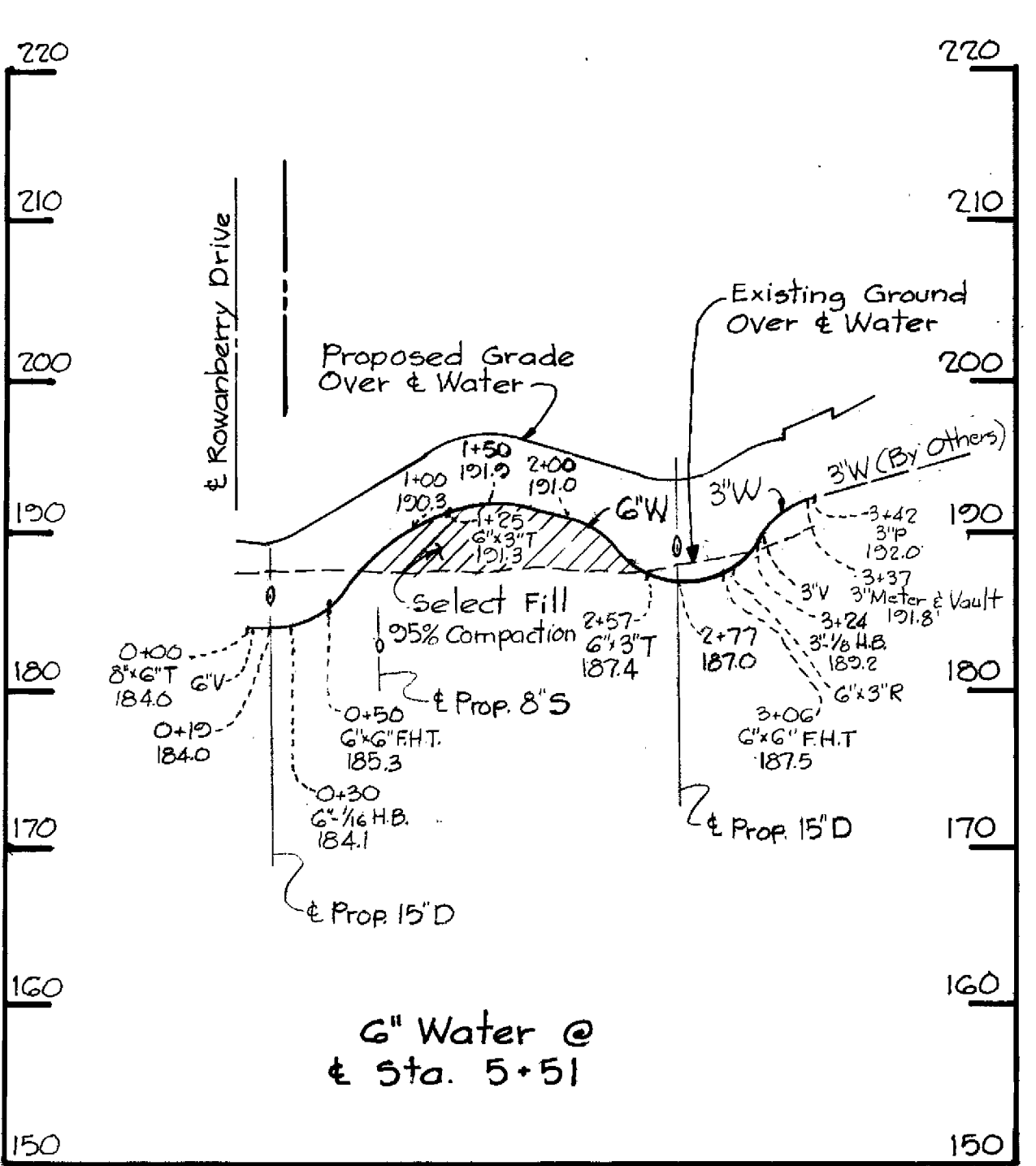
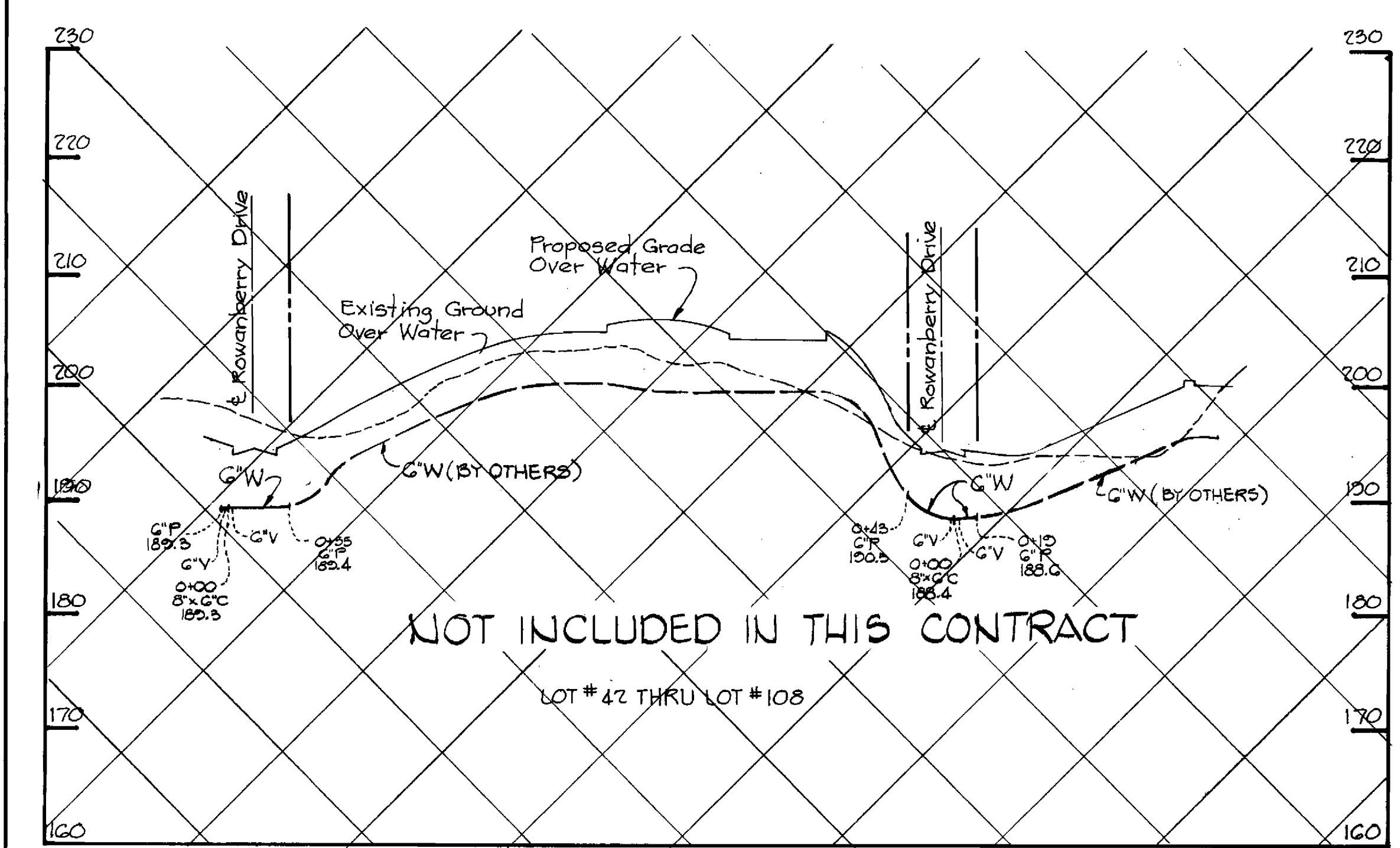
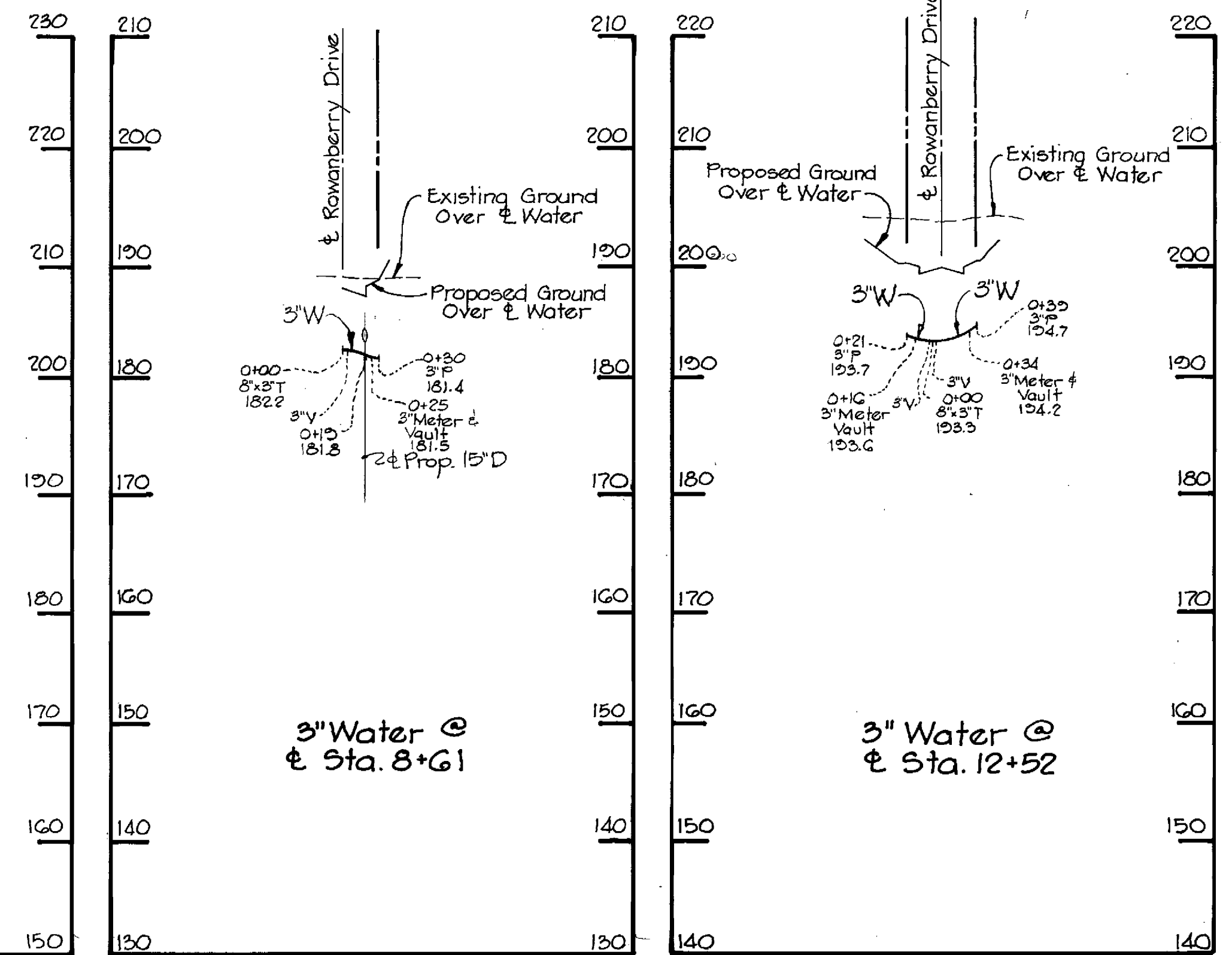
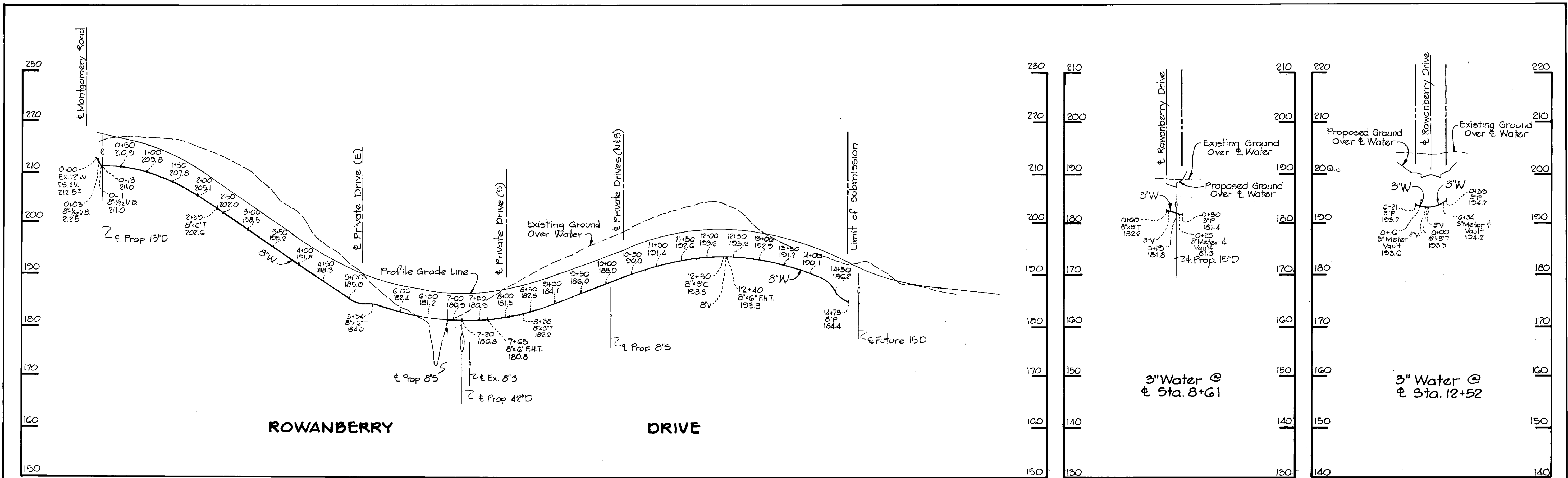


3-23-81
DATE

STATE OF MARYLAND
JAMES G. SMITH, GOV.
1981
PROFESSIONAL ENGINEER

James G. Smith
PROFESSIONAL ENGR. NO. 5866

RIEMER-TRACY & ASSOCIATES, INC. 8659 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043 LAND PLANNING, DESIGN & CIVIL ENGINEERING	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, LAND DEVELOPMENT DIVISION DATE 6-25-81 DIRECTOR OF PUBLIC WORKS DATE 6-25-81 CHIEF BUREAU OF ENGINEERING DATE 6-25-81 CHIEF, BUREAU OF UTILITIES DATE 6-25-81	CONTRACT NO. 14-0939D	PLAN OF WATER & SEWER MAINS	QUAIL RIDGE ELECTION DISTRICT ELKRIDGE NO. 1	DRAWING NO. 2 OF 4 SCALE 1" = 50' DATE JUNE 15, 1981 AS-BUILT Dec. 30, 1981
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Quail Ridge
Section 1, Area 1
Contract No. 14-0939D-W#5

3-23-81
DATE

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

Frank J. [Signature]
PROFESSIONAL ENGR. NO. 2522

RIEMER-TRACY & ASSOCIATES, INC.
8659 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21043
LAND PLANNING, DESIGN & CIVIL ENGINEERING

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, LAND DEVELOPMENT DIVISION
DATE 6-26-81

[Signature]
DIRECTOR OF PUBLIC WORKS DATE

CHIEF BUREAU OF ENGINEERING DATE
CHIEF BUREAU OF UTILITIES DATE

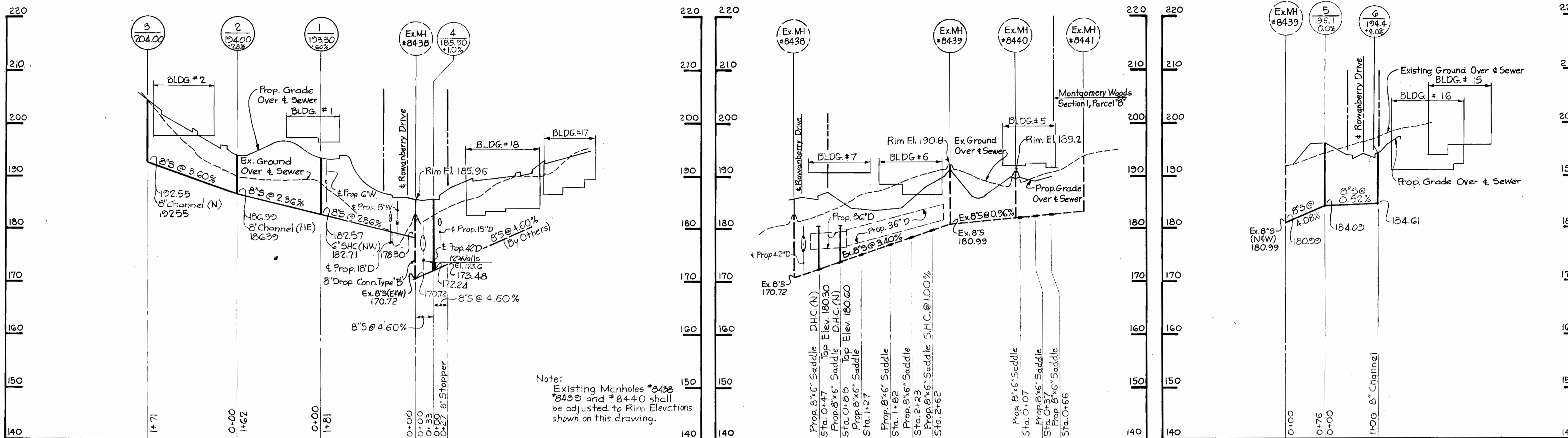
CONTRACT NO. 14-0939D

6-30-81 Revised 3\"/>

PROFILES OF WATER AND SEWER MAINS

QUAIL RIDGE ELECTION DISTRICT ELKRIDGE NO. 1

DRAWING NO. 3 OF 4
SCALE H: 1\"/>



Quail Ridge
Section 1, Area 1
Contract No. 14-0939D-W#5

3-23-81
DATE

Donald K. Tracy
PROFESSIONAL ENGR. NO. 15568

REMER-TRACY & ASSOCIATES, INC. 8659 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043 LAND PLANNING, DESIGN & CIVIL ENGINEERING	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS DATE: 6-26-81 CHIEF BUREAU OF ENGINEERING DATE: 6-25-81 CHIEF BUREAU OF UTILITIES DATE:	CONTRACT NO. 14-0939D	PROFILES OF WATER AND SEWER MAINS	QUAIL RIDGE ELECTION DISTRICT ELKRIDGE NO. 1	DRAWING NO. 4 OF 4	SCALE H: 1"=100' V: 1"=10'
					DATE: 6-26-81	