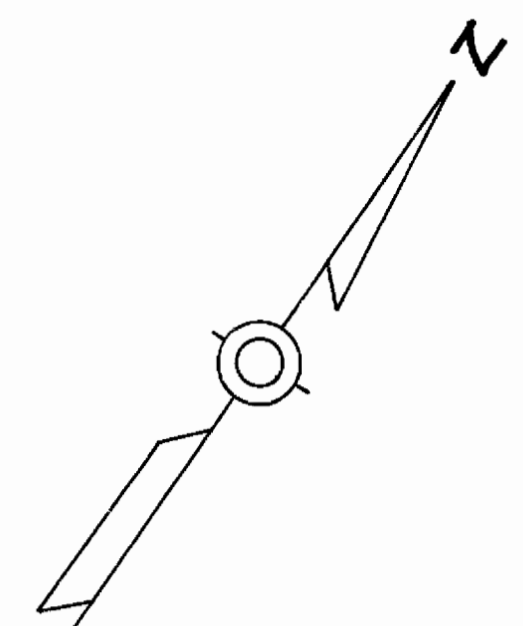


SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE SPECIFICATIONS AND FINAL PLAN # F-81-1B

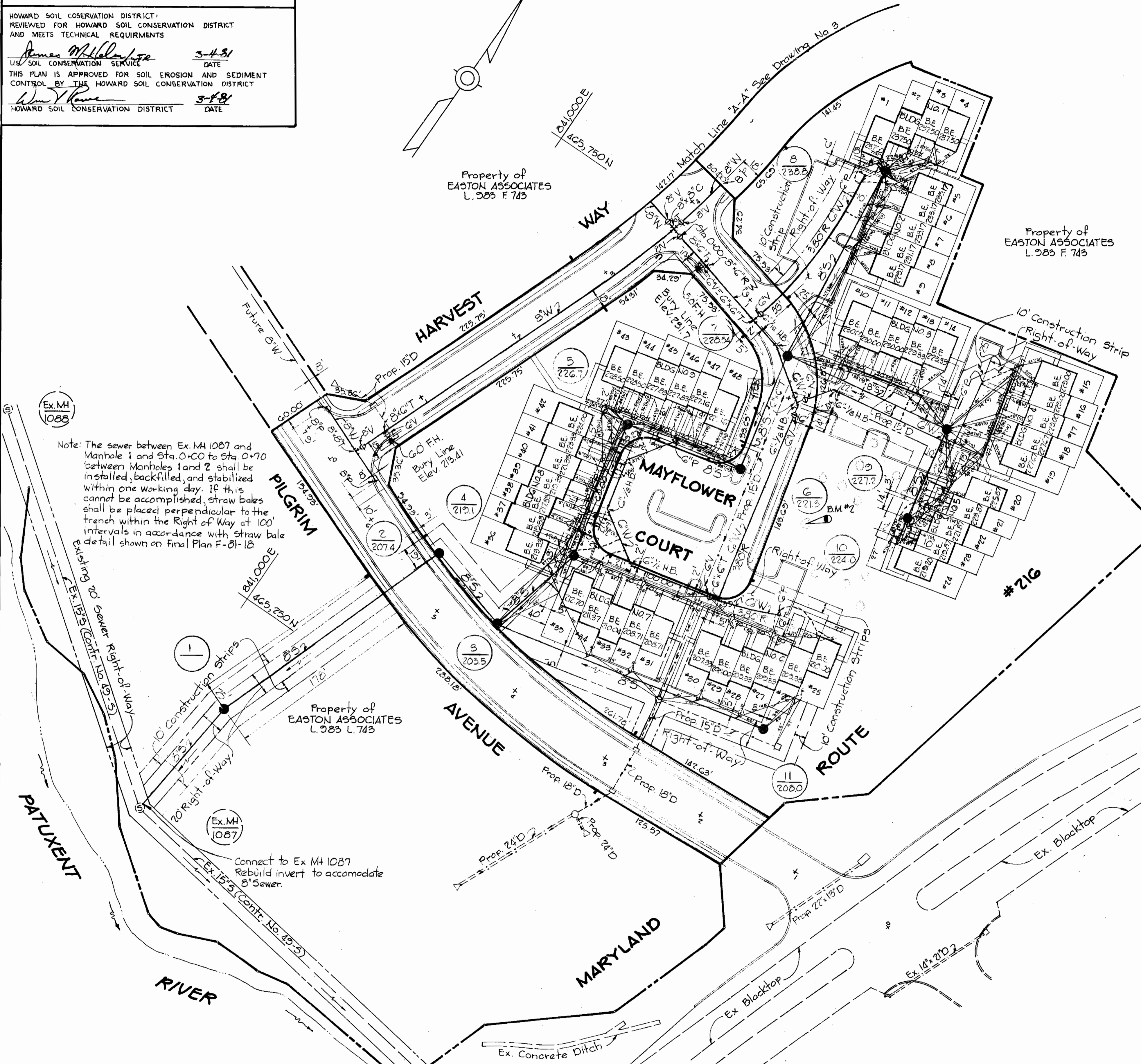
HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

James M. Williams 3-4-81
US SOIL CONSERVATION SERVICE DATE
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
James M. Williams 3-4-81
HOWARD SOIL CONSERVATION DISTRICT DATE



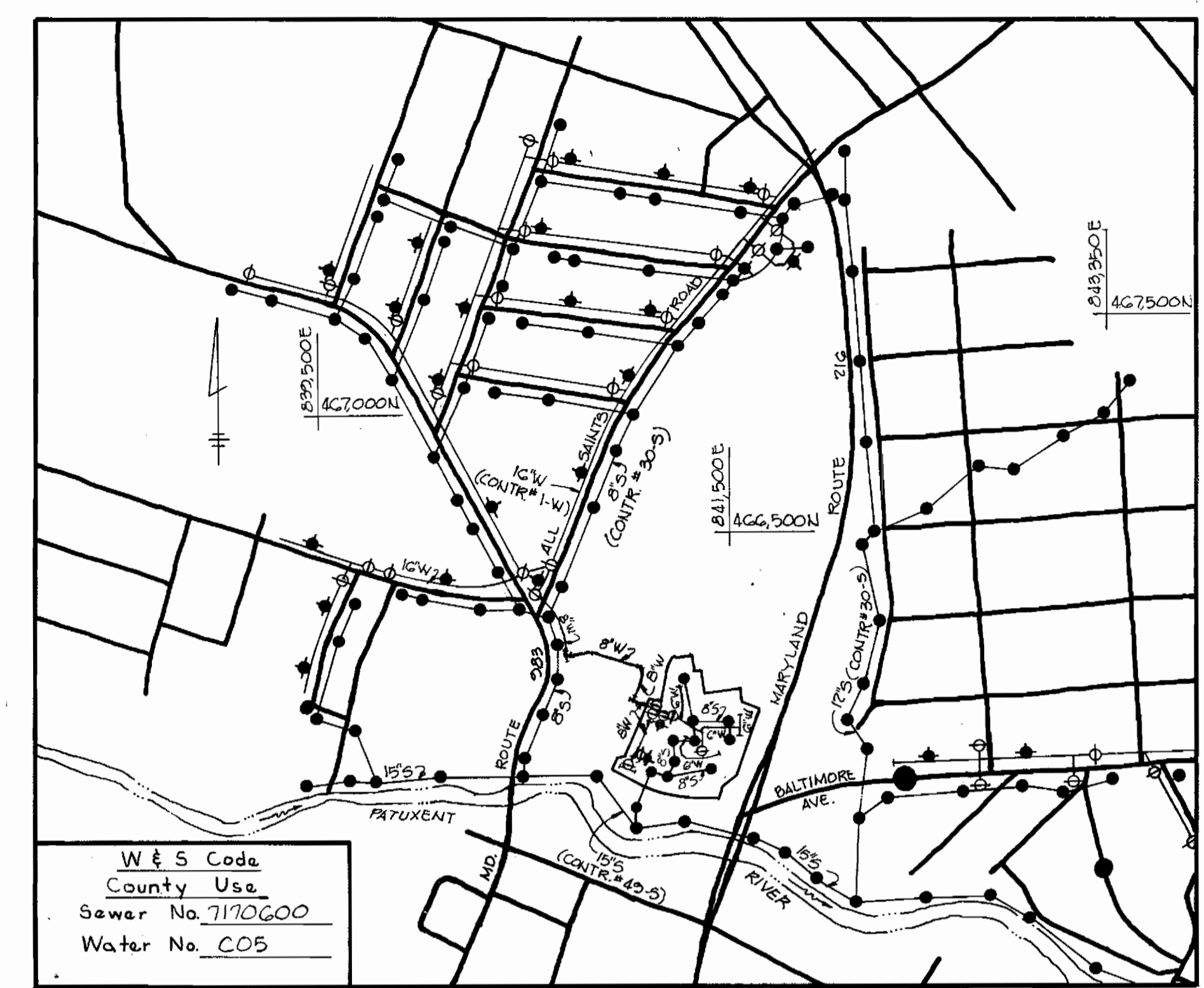
Property of EASTON ASSOCIATES L. 285 F. 743

Property of EASTON ASSOCIATES L. 285 F. 743



Note: The sewer between Ex. M# 1087 and Manhole 1 and Sta. 0+00 to Sta. 0+70 between Manholes 1 and 2 shall be installed, backfilled, and stabilized within one working day. If this cannot be accomplished, straw bales shall be placed perpendicular to the trench within the Right of Way at 100' intervals in accordance with straw bale detail shown on Final Plan F-81-1B

Connect to Ex. M# 1087 Rebuild invert to accommodate 8" Sewer.



W & S Code
County Use
Sewer No. 7170600
Water No. C05

VICINITY MAP
Scale: 1"=600'

Type of Buildings = Single Family Attached
No. of Lots = 48
No. of WHC = 48
No. of SHC = 48
Drainage Area = Little Patuxent (Savage)

BENCH MARKS

B.M.#1 Elev. 200.03
Nail in 36" Oak 15'± left of Traverse between P.I.#105 and P.I.#106

B.M.#2 Elev. 271.98
Nail in 48" Oak 340'± West of Route 216 265'± Northwest of Baltimore Ave. and Route 216

QUANTITIES			
Item	Estimated	As Built	Material/Supplier
Fire Hydrants	2	2	M.H. Dresser
8" Sewer	1565 LF	1562 LF	PVC/Johns Mansville
Manholes	22 V.F.	99 V.F. + 1 each	Conc. Precast X' Lock
8" Water	2120 LF	2150 LF	D.I.P./Griffin
6" Water	1087 LF	1087 LF	D.I.P./Griffin
8" Valves	7	7	M.H. Dresser
6" Valves (Excl. F.H. V's)	4	4 incl. F.H.V.	M.H. Dresser
6" Sewer	48 SHC	532 LF	PVC/Johns Mansville

REV	DATE	DESCRIPTION
Δ 15-10-81		Changed 12" W 12" V to 8" on Harvest Way & Pilgrim Ave.
Δ 14-16-81		Changed number of valves in quantities

Settler's Landing Section 1, Area 1
Contract No. 24-0933-D

12-19-82
DATE
STATE OF MARYLAND
PROFESSIONAL ENGR. NO. 9566
James M. Williams
PROFESSIONAL ENGR.

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE 3-9-81
DIRECTOR OF PUBLIC WORKS DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE
CHIEF, BUREAU OF ENGINEERING DATE
CHIEF, BUREAU OF UTILITIES DATE

CONTRACT NO. 24-0933-D

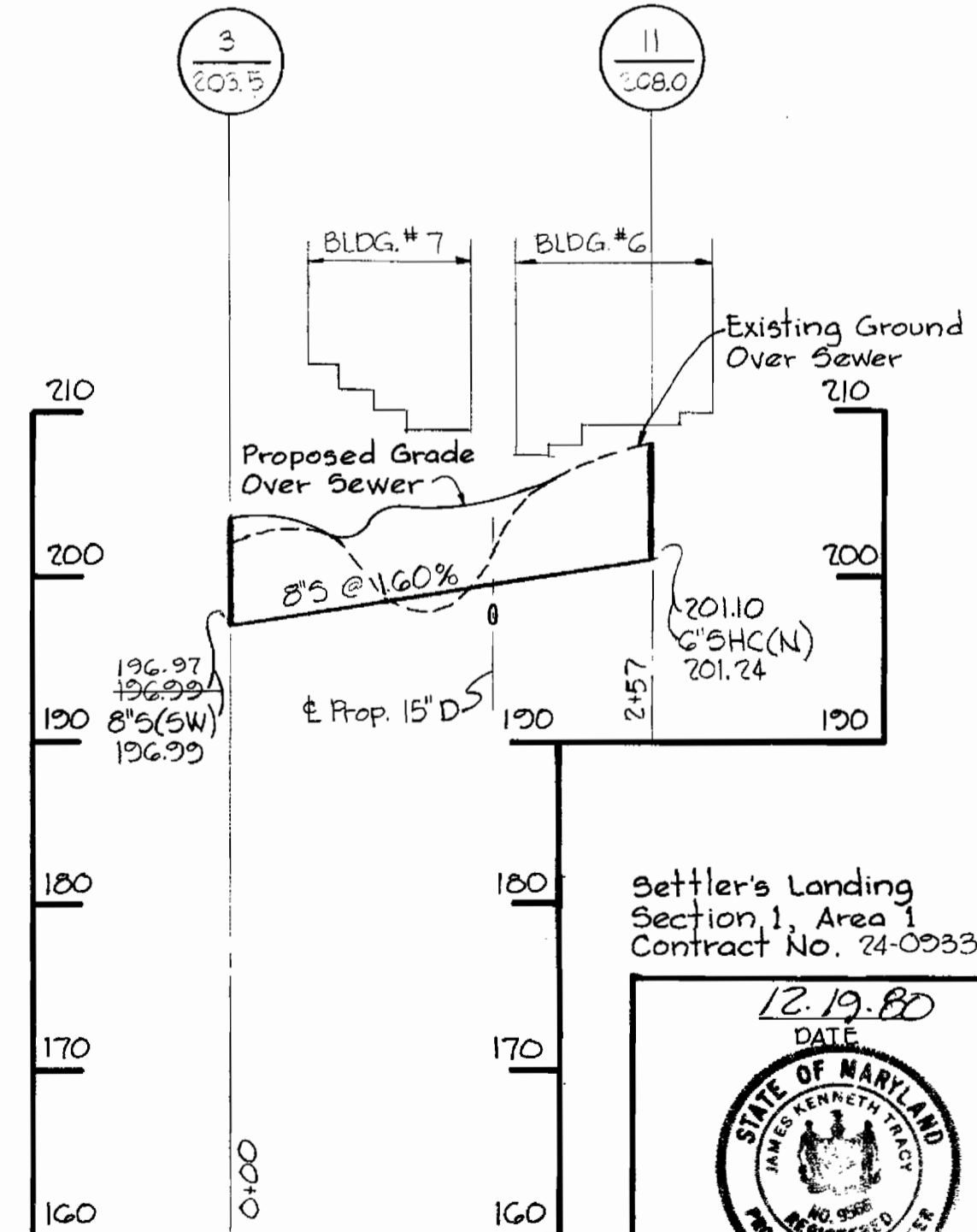
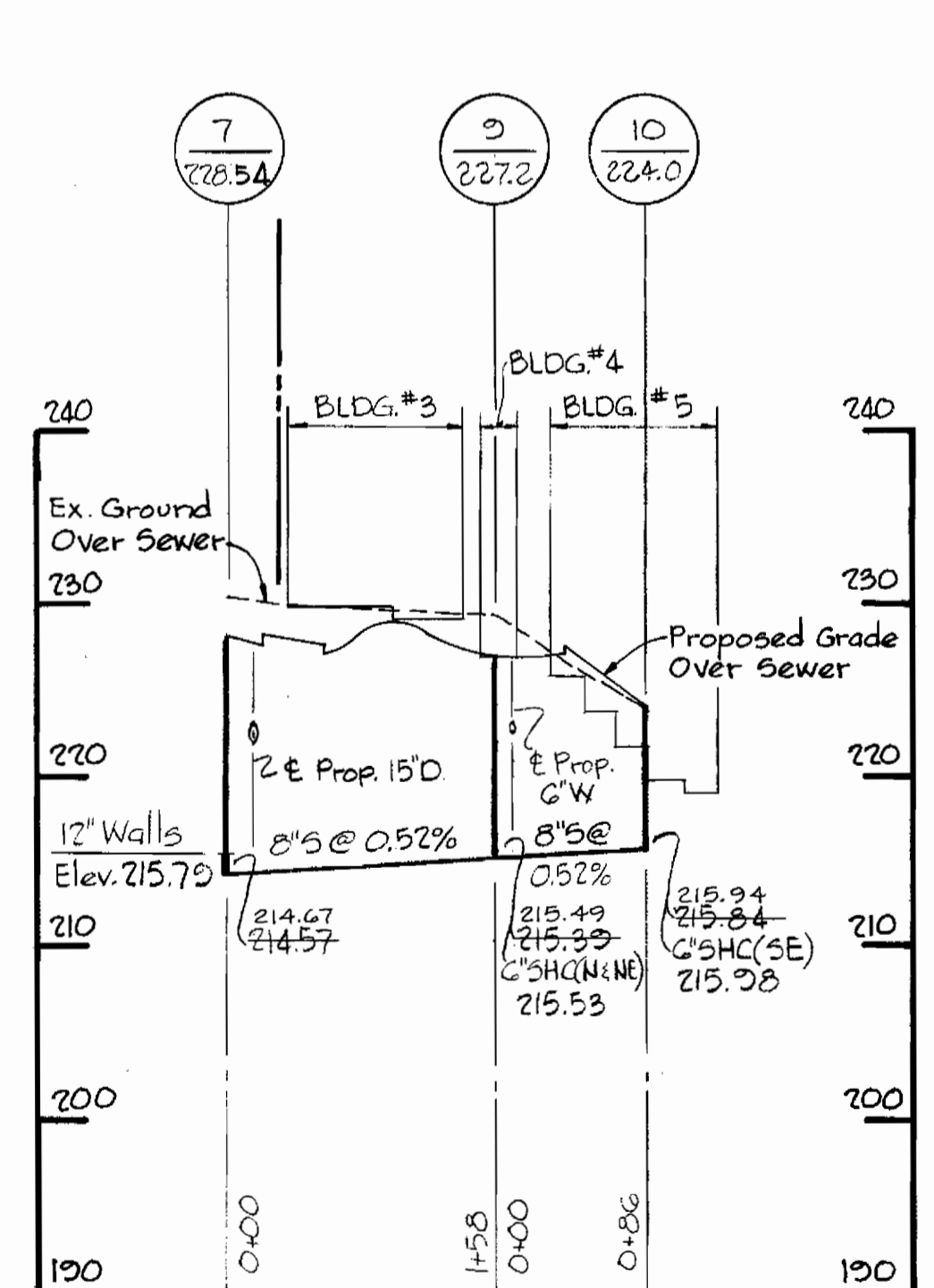
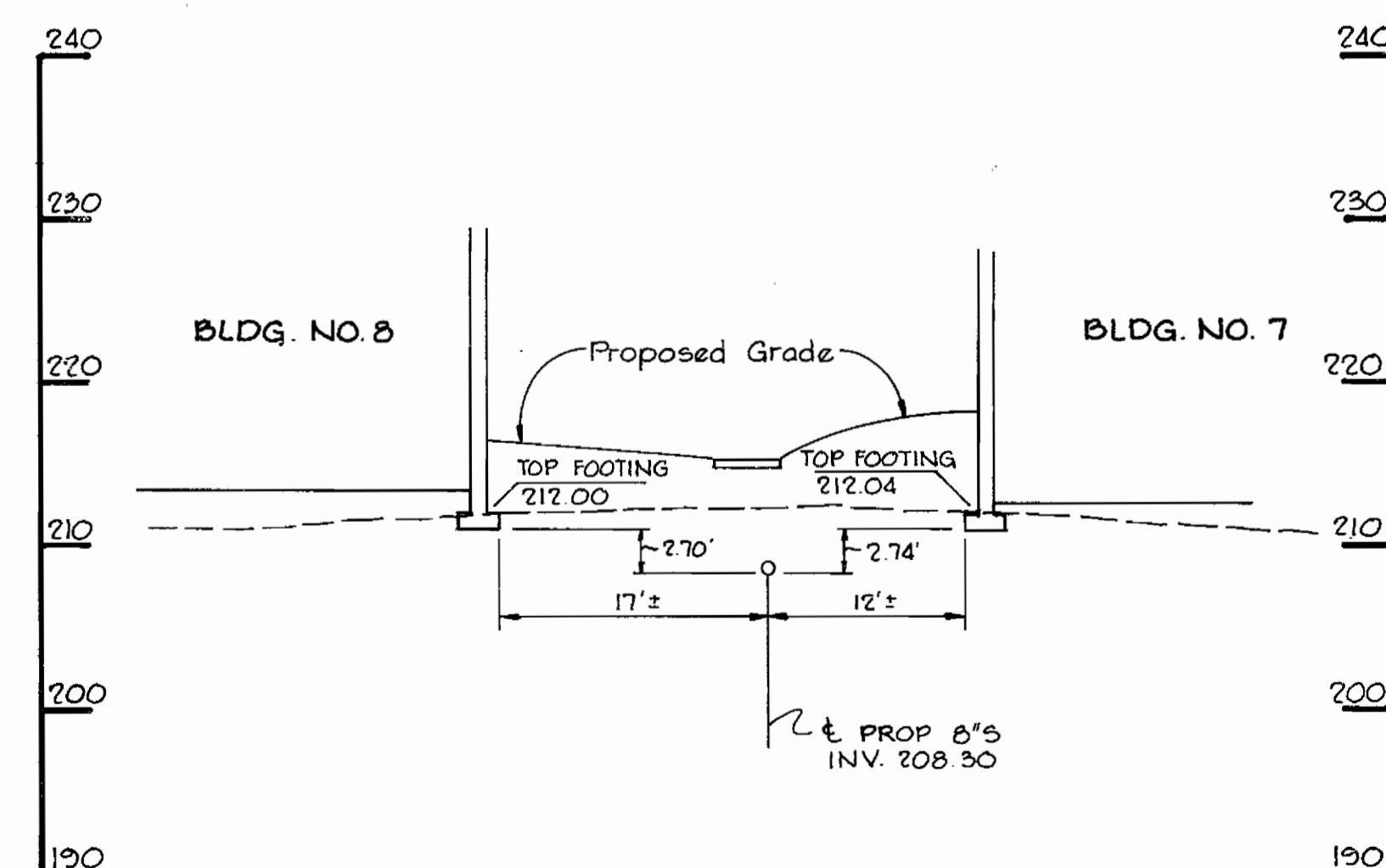
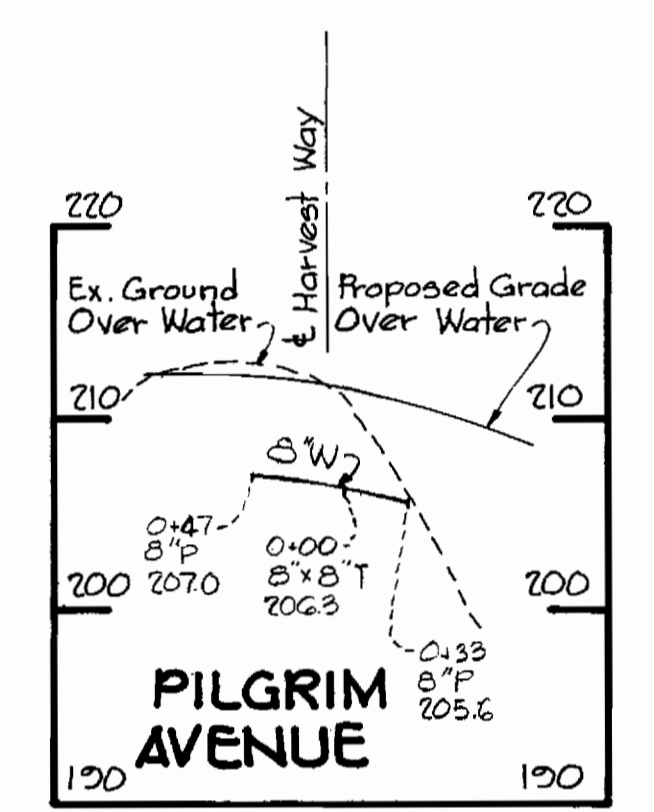
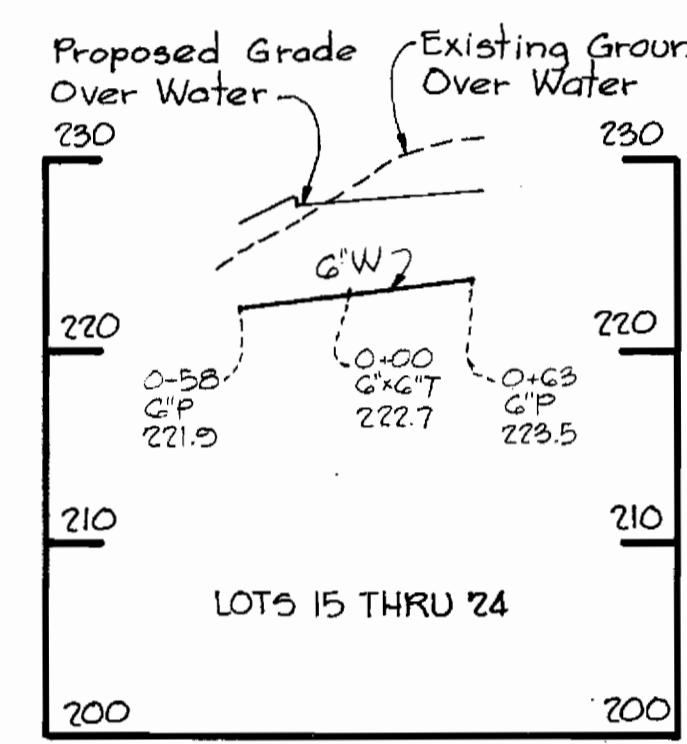
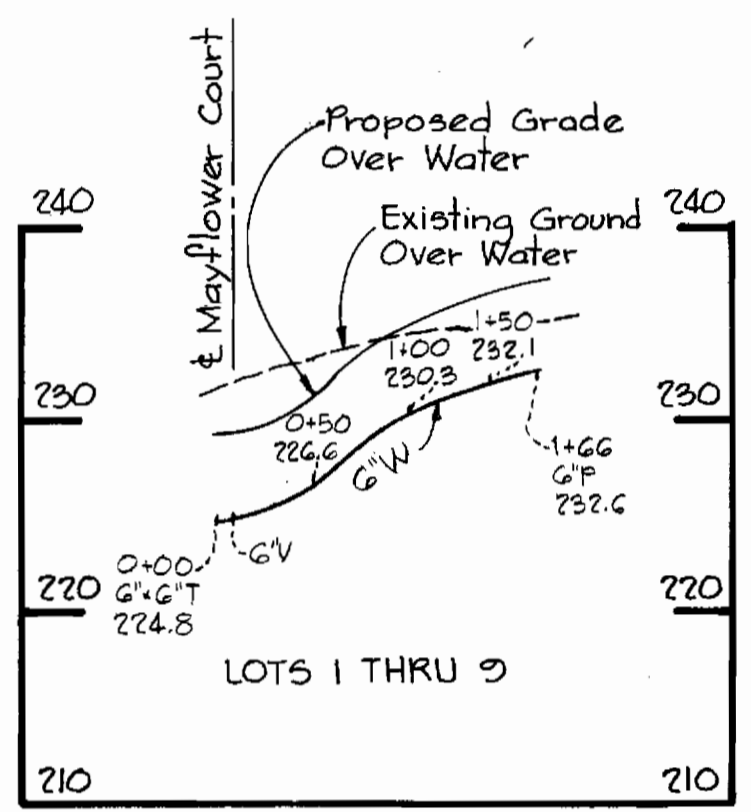
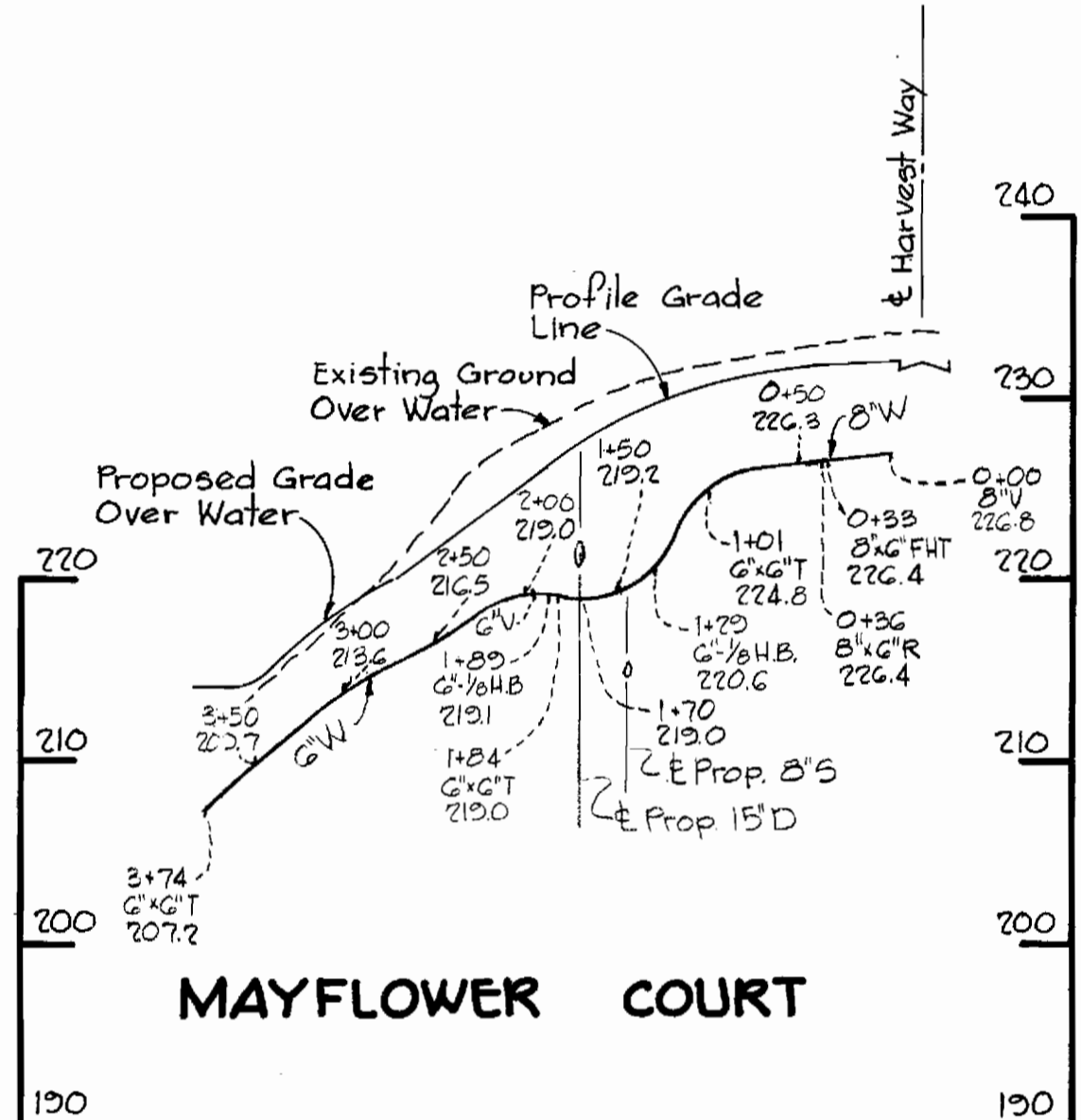
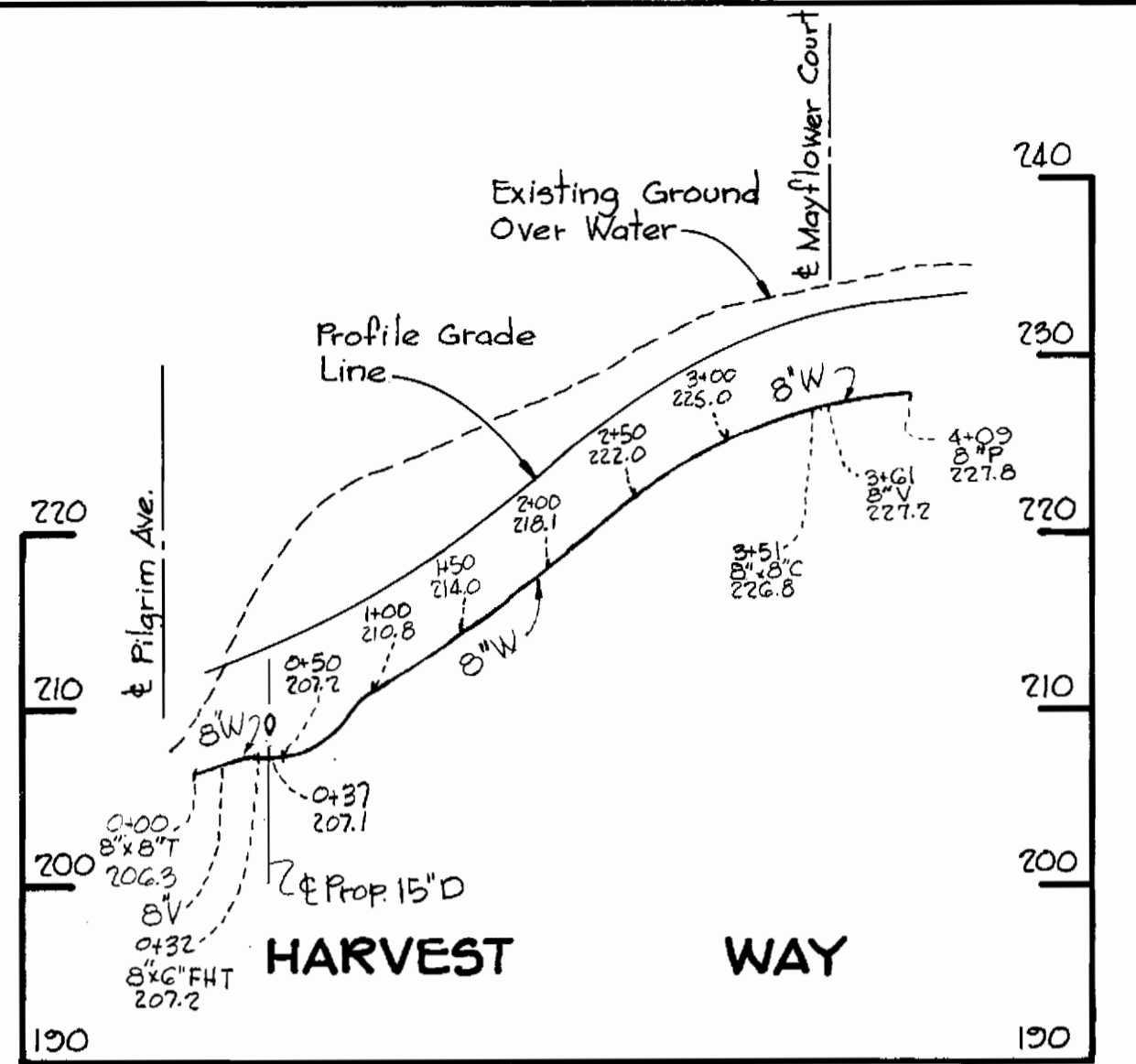
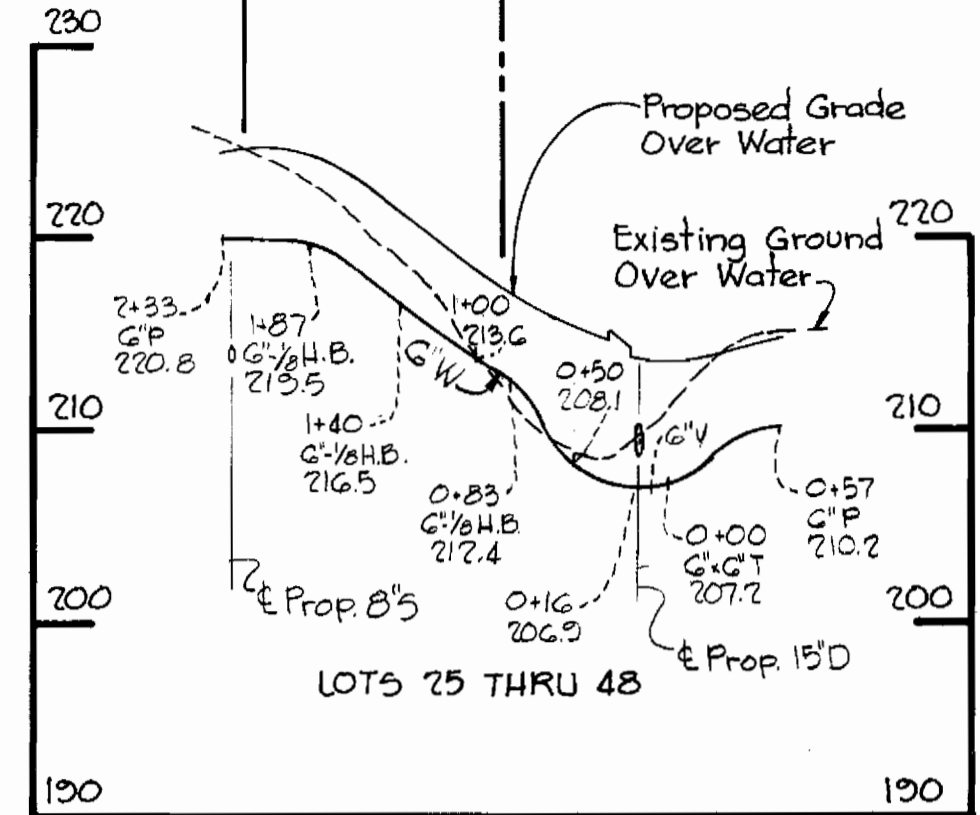
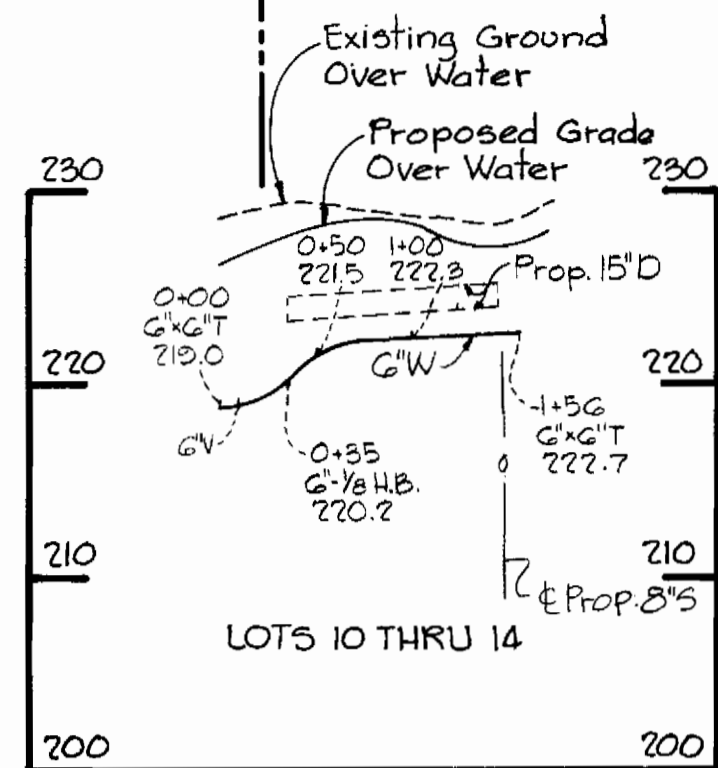
PLAN OF WATER AND SEWER MAINS

SETTLER'S LANDING
6TH ELECTION DISTRICT

DRAWING NO. 1 OF 3
SCALE 1"=50'

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. Datum.
- All pipe elevations shown are invert elevations.
- 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 tunnelling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications.
- 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.
- 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 and Electric Company - Underground Electric Distribution Customer Service 685-0123
 - Baltimore Gas and Electric Company - Underground Gas Distribution Customer Service 685-0123
 - Engineering - "Damage Control" 234-5621
 - "Miss Utility" 1-559-0100
 - Chesapeake and Potomac Telephone Company 725-9976
 - American Telephone and Telegraph Cable Location Division 393-3553
 - Colonial Pipeline Company 781-4641
 - Bureau of Utilities Howard County 992-2366
- 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.
- 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.
- 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.
- All water mains to be C.I.P. or D.I.P. unless otherwise noted.
- Top of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
- Valves adjacent to trees shall be strapped to trees.
- Block all fittings with concrete.
- 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.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water mains valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., or A.C.P. Class 2400 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.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail S-12 (RCR-63A). Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade.
- House(s) with the symbol "C.N.S." indicates that cellar can not be served.
- All water house connections shall have a minimum vertical clearance of 12" above all sanitary sewer crossings.
- All sanitary sewer house connections shall have a minimum vertical clearance of 12" below all water main crossings.



SECTION A-A - BETWEEN M#3 & M#4
Scale 1"=10'

REV.	DATE	DESCRIPTION
5-12-81		Changed 8" W & 8" S to 12" on Harvest Way & Pilgrim Ave.
4-16-81		Added notes 27 & 28 to General Notes

RIEMER-TRACY & ASSOCIATES, INC.
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, LAND DEVELOPMENT DIVISION
DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF ENGINEERING DATE
CHIEF, BUREAU OF UTILITIES DATE

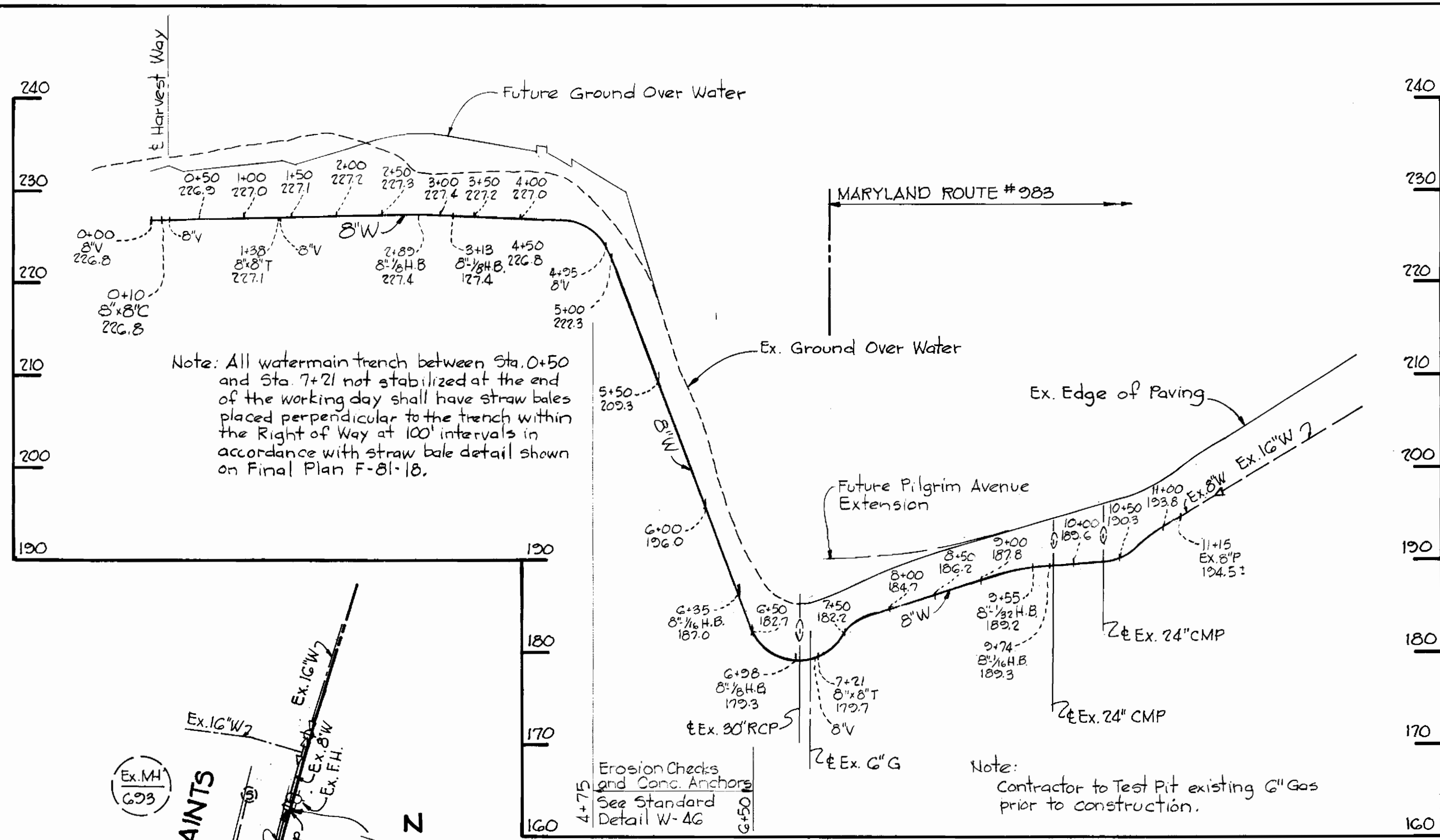
CONTRACT NO. 24-0933-D

PROFILES OF WATER AND SEWER MAINS

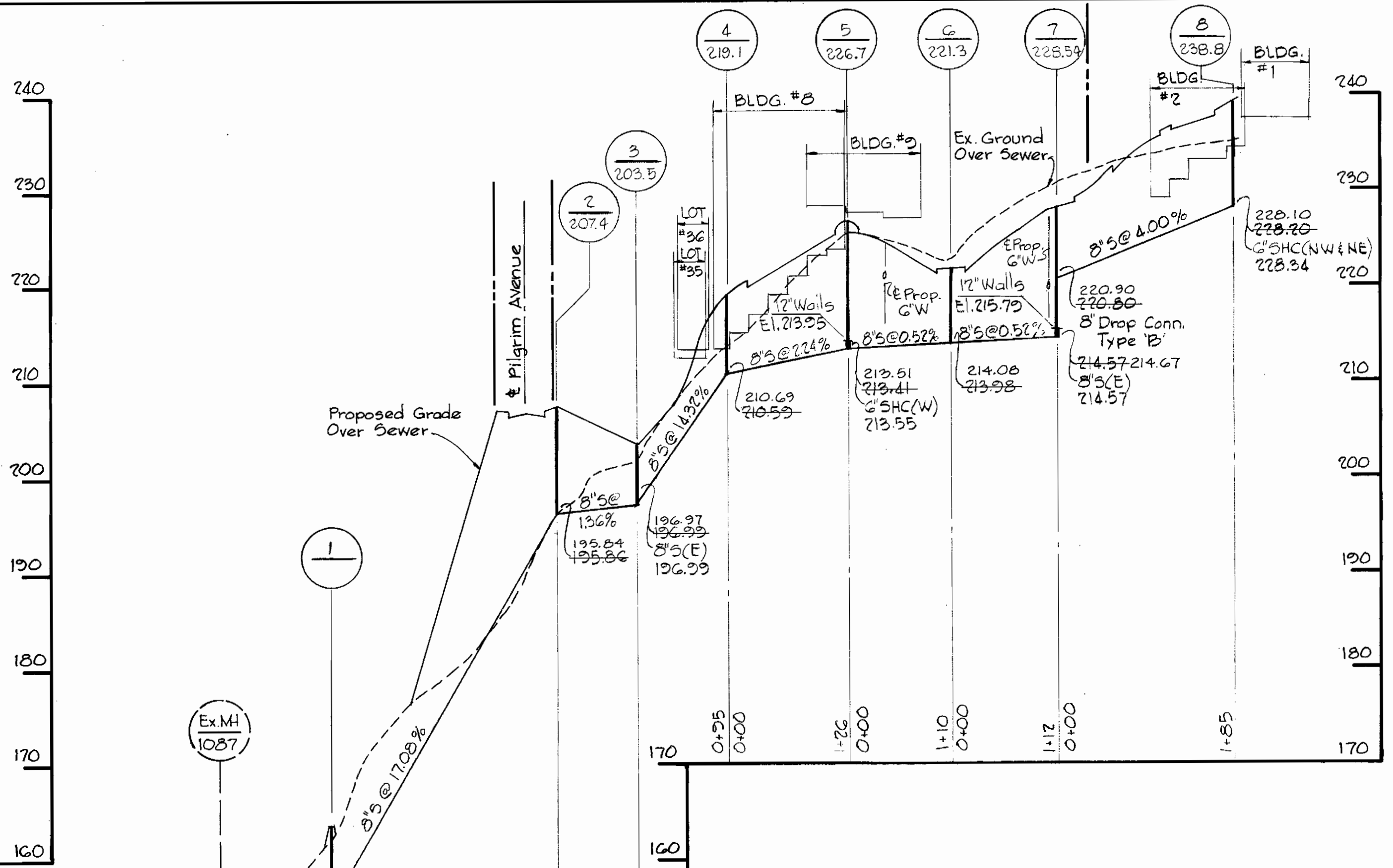
SETTLER'S LANDING
6TH ELECTION DISTRICT

DRAWING NO. 2 OF 3
SCALE H:V = 100':10'

Settler's Landing
Section 1, Area 1
Contract No. 24-0933-D
12.19.80
DATE
STATE OF MARYLAND
JAMES KENNETH TRACY
PROFESSIONAL ENGR. 107956

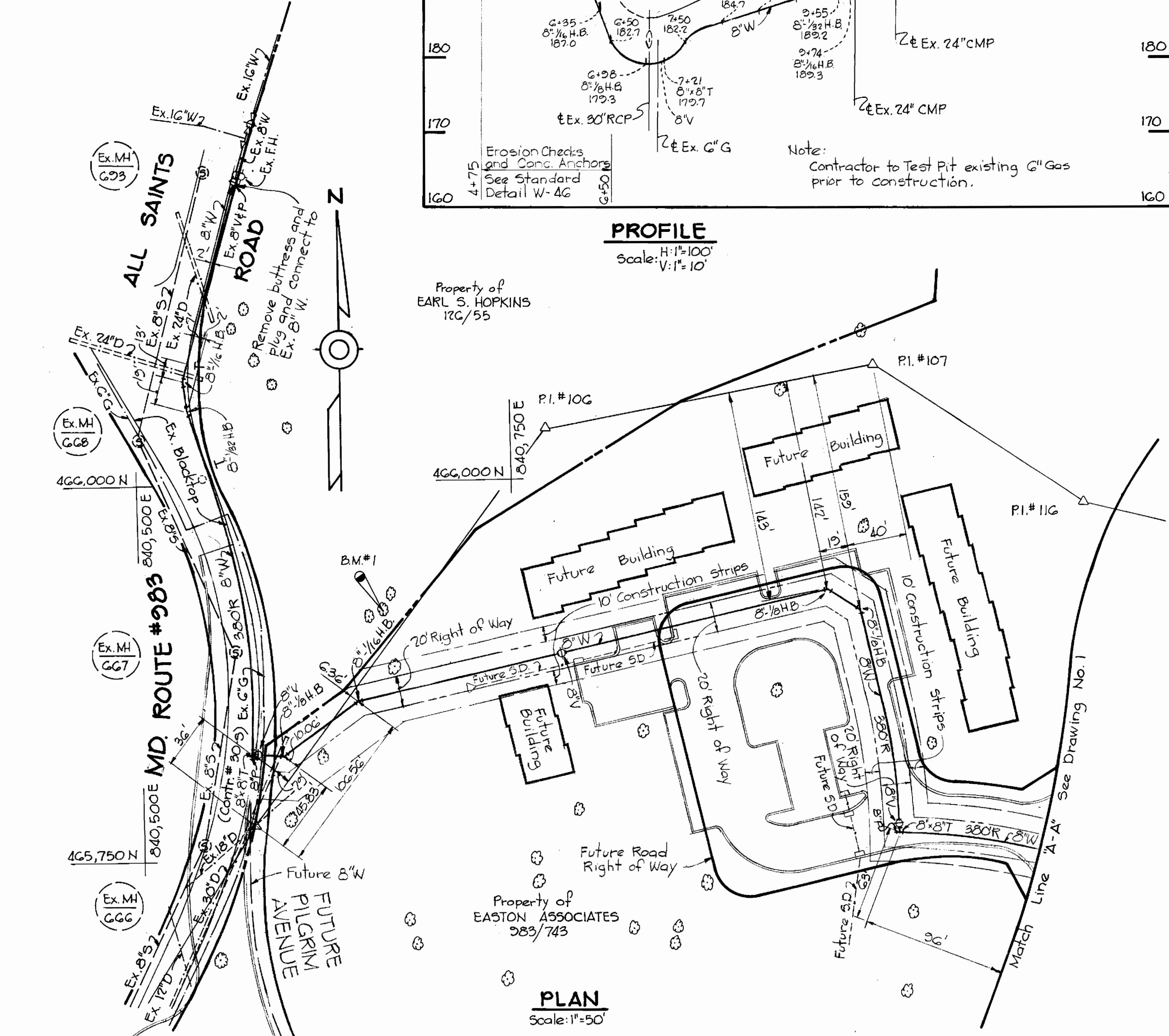


PROFILE
 H: 1"=100'
 V: 1"=10'



PROFILE
 H: 1"=100'
 V: 1"=10'

Note:
 Proposed 8"W between the valve at sta. 4+95 and the valve at sta. 7+20 is a temporary connection and is to be abandoned at Howard County Department of Public Works option when the future water main in Pilgrim Ave. has been built to Harvest Way.



PLAN
 Scale: 1"=50'

REV.	DATE	DESCRIPTION
6-24-81		Deleted Conc. anchors bet. ex. MH#1087 thru MH#2
5-19-81		Changed 12"W to 8"W on Md. Route #983

Settlers Landing
 Section 1, Area 1
 Contract No. 24-0933-D



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 3-9-81 DIRECTOR OF PUBLIC WORKS DATE 3-9-81 CHIEF, BUREAU OF ENGINEERING DATE 3/9/81 CHIEF, BUREAU OF UTILITIES DATE	CONTRACT NO. 24-0933-D	PLAN AND PROFILES WATER AND SEWER MAINS	SETTLER'S LANDING 6TH ELECTION DISTRICT	DRAWING NO. 3	SCALE AS SHOWN
					OF 3	