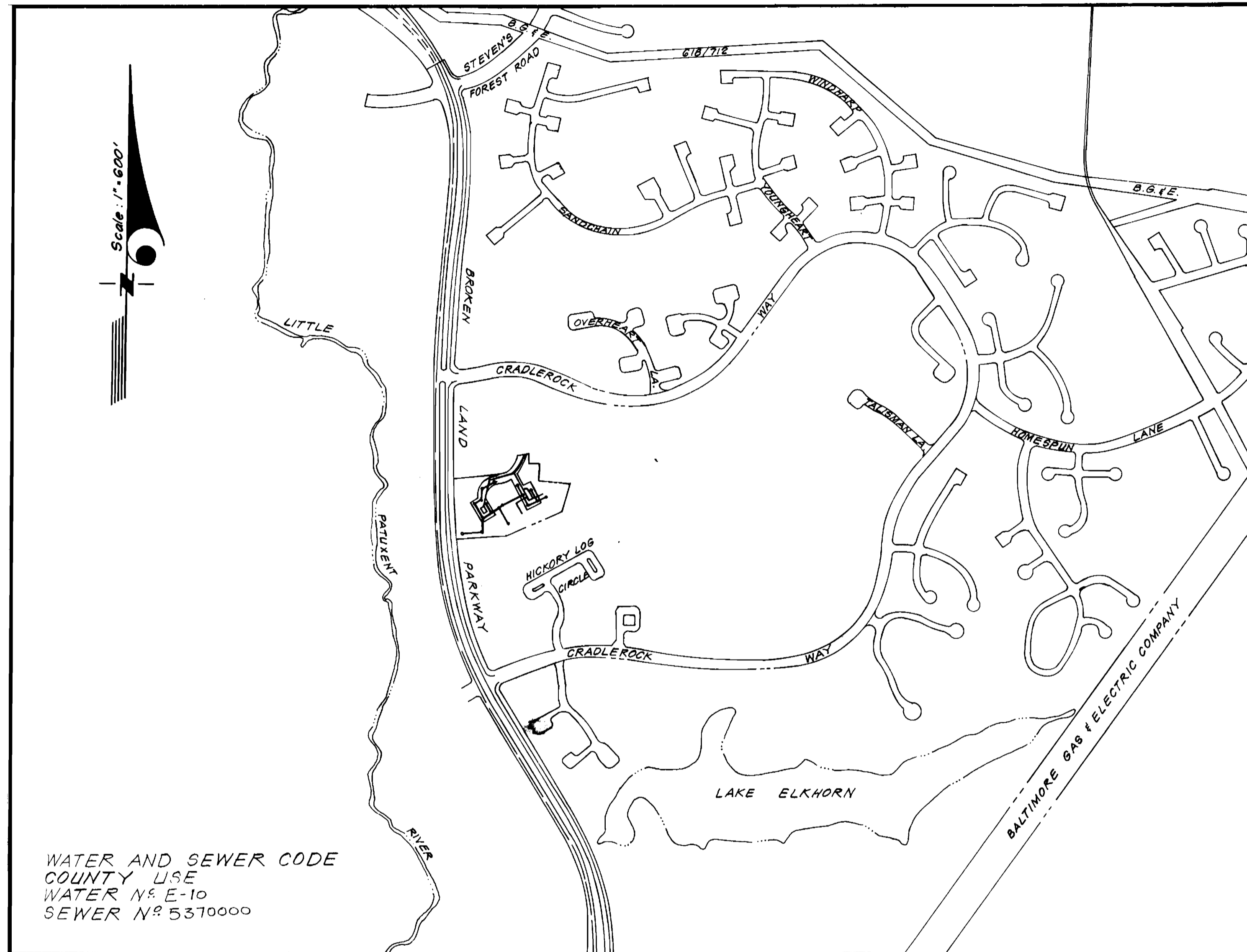


Type of Buildings	Townhouses
Number of Lots	72
Number of Water House Connections	72
Number of Sewer House Connections	72
Drainage Area	Little Patuxent River



WATER AND SEWER CODE
 COUNTY USE
 WATER N^o E-10
 SEWER N^o 5370000

VICINITY MAP
 SCALE: 1" = 600'

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 Inspector, 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.
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Company - Underground Electric Distribution Customer Service - 685-0123
 - Baltimore Gas & Electric Company - Underground Gas Distribution Customer Service - 685-0123
 - Engineering - Damage Control - 234-5621
 - "Miss Utility" - 1-538-0100
 - Chesapeake & Potomac (C&P) 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
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 Inspector. 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'-1/2' 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. All water house connections shall be for an inside meter setting.
19. The contractor shall not operate any water main valves on the existing system.
20. All sewer mains shall be C.S.P.X., V.C.P.X., or A.C.P. Class 2400 unless otherwise noted.
21. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
22. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
23. Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with Road Construction Plan F. 81-132 ; Drawing 4, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

[Signature] 8-25-81
 SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED:
[Signature] 8-25-81
 Howard S.C.D. DATE

CONTRACT NO.24-1007-D W&S
VILLAGE OF OWEN BROWN
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	EST'D	AS-BUILT	MATERIAL/SUPPLIER
8" Sewer	1,693'	1629'	Logan Clay A&P WATER SEWER SUPPLIES
8" Water	593'	593'	U.S. Pipe / U.S. Pipe & Foundry
6" Water	1,140'	1164'	U.S. Pipe / U.S. Pipe & Foundry
6" Valve (Excluding F.H. Valves)	5	5	Smith Valves (Metropolitan) / U.S. Pipe & Foundry
8" Valve	2	2	Smith Metro / U.S. Pipe & Foundry
Fire Hydrants	3	3	A.P. Smith / A&P Supply

[Signature]
 7-30-81

COLUMBIA
 RESUBDIVISION OF LOT B-73 SECTION 1 AREA 1 LOTS B-74 THRU B-145
 Contract No. 24-1007-D W&S

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS - DATE 9-2-81
 CHIEF BUREAU OF ENGINEERING - DATE 9-2-81
 CHIEF BUREAU OF UTILITIES - DATE 8-31-81
 CHIEF LAND DEVELOPMENT DIVISION - DATE 9-2-81

No.	Revision	Date
3	Changed Grades: MH 13-15 & MH 2-7	3-29-81

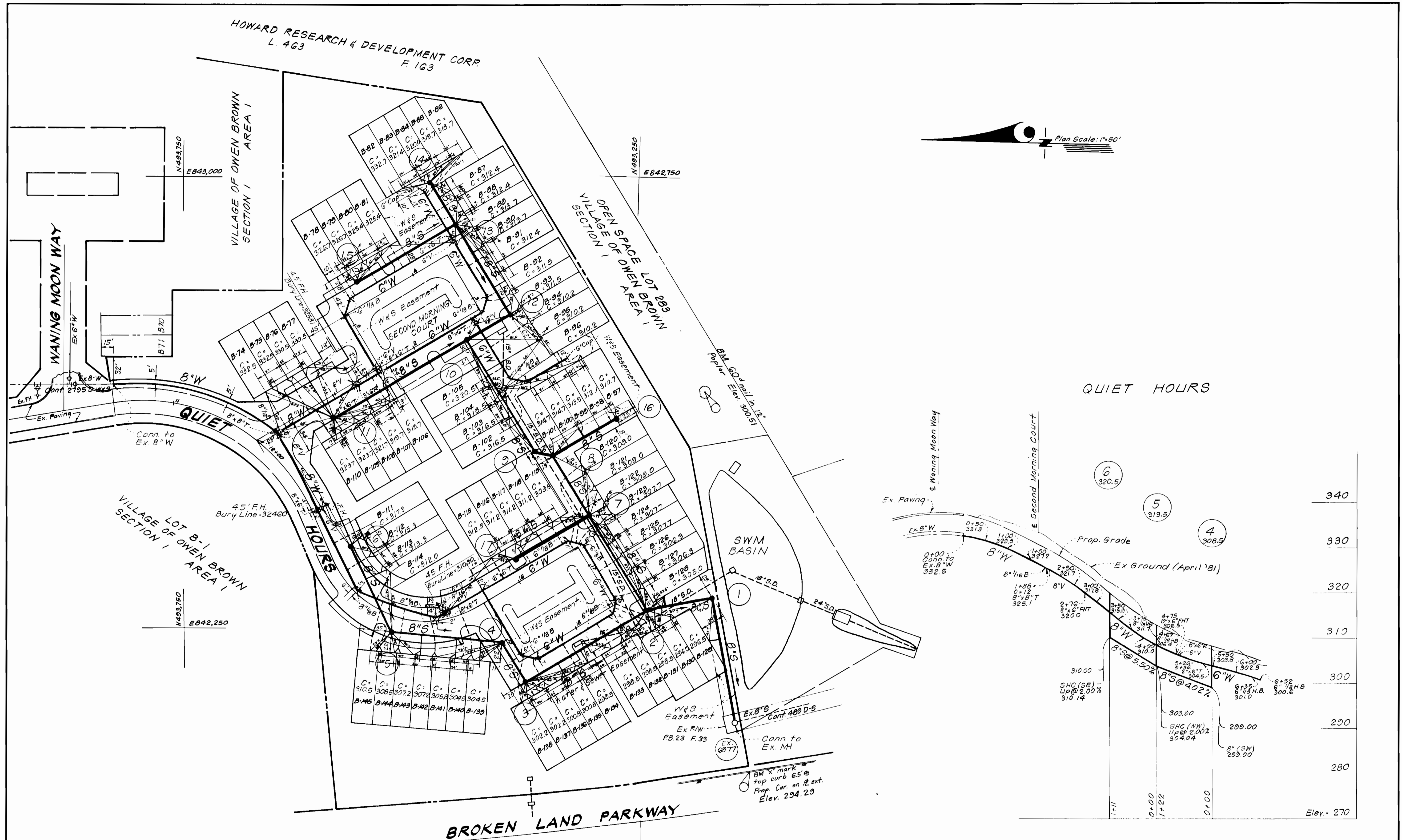
No.	Revision	Date
1	Corrected minor drafting errors per State Health Comments	9-16-81
2	Relocated 200' S.W. behind curb on quiet hours	9-29-81

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400

CONTRACT NO. 24-1007-D	TITLE SHEET	COLUMBIA VILLAGE OF OWEN BROWN 6TH ELECTION DISTRICT	DRAWING NO. 1 OF 3	SCALE AS SHOWN
------------------------	-------------	--	--------------------	----------------

1007/1 WS

1007/2 WS



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

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400

CONTRACT NO. 24-1007-D

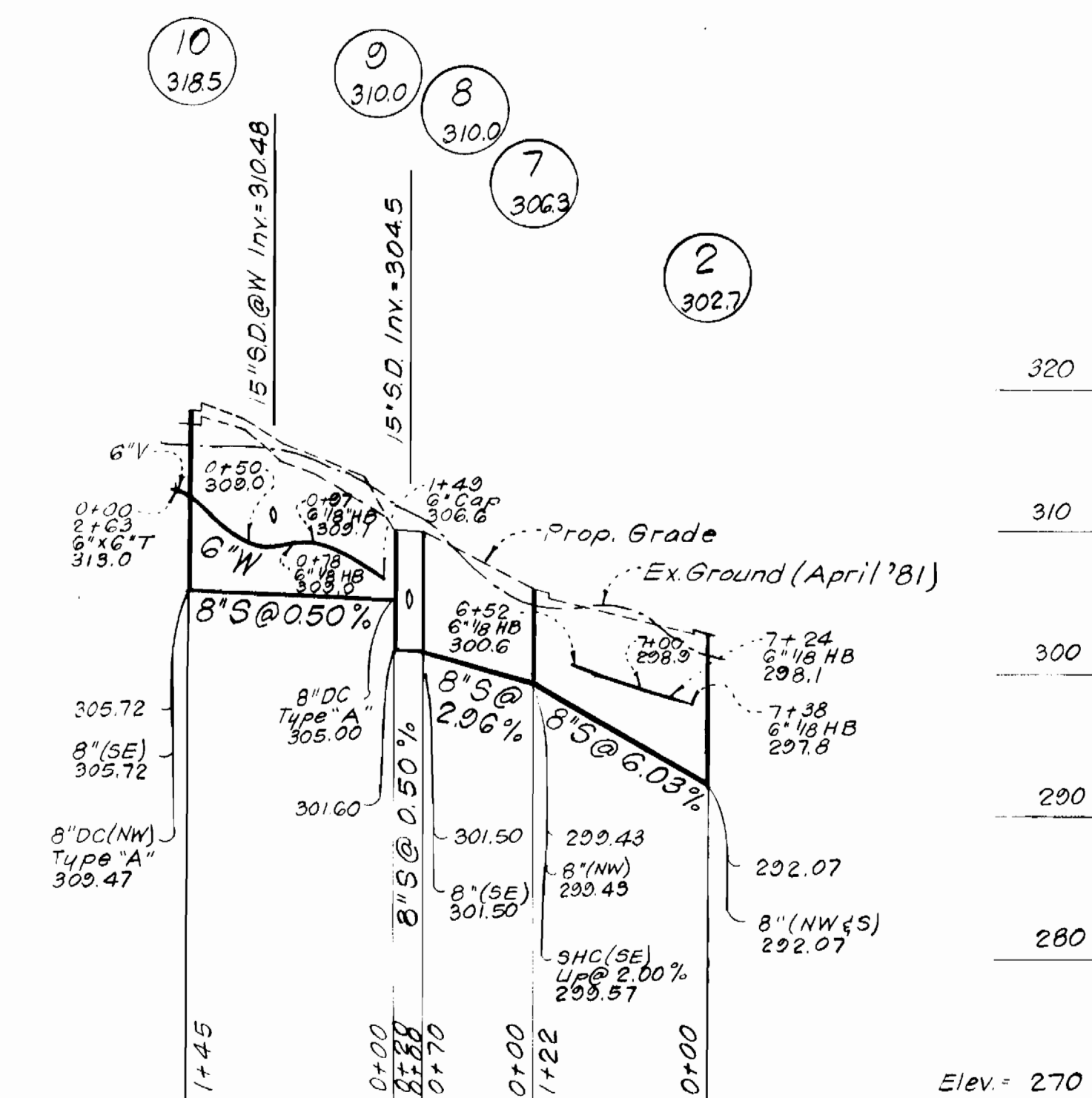
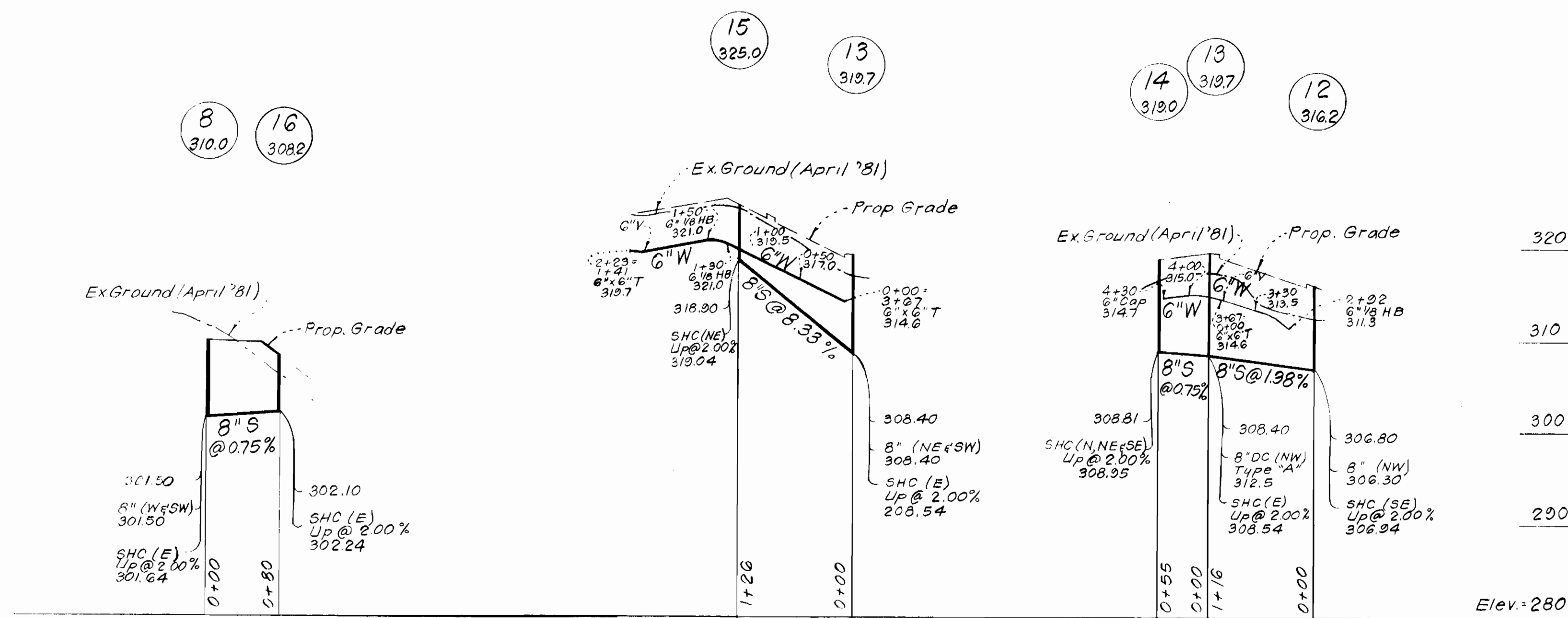
PLAN & PROFILES FOR
 WATER & SEWER MAINS

PROFILE SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

NO	REVISION	DATE
1	Corrected minor drafting errors per State Health Comments.	8-16-81
2	Relocated 200' 6" W behind curb on Quiet Hours.	8-22-81
3	Changed Grades: MH 13-15 & MH 2-7.	8-22-81

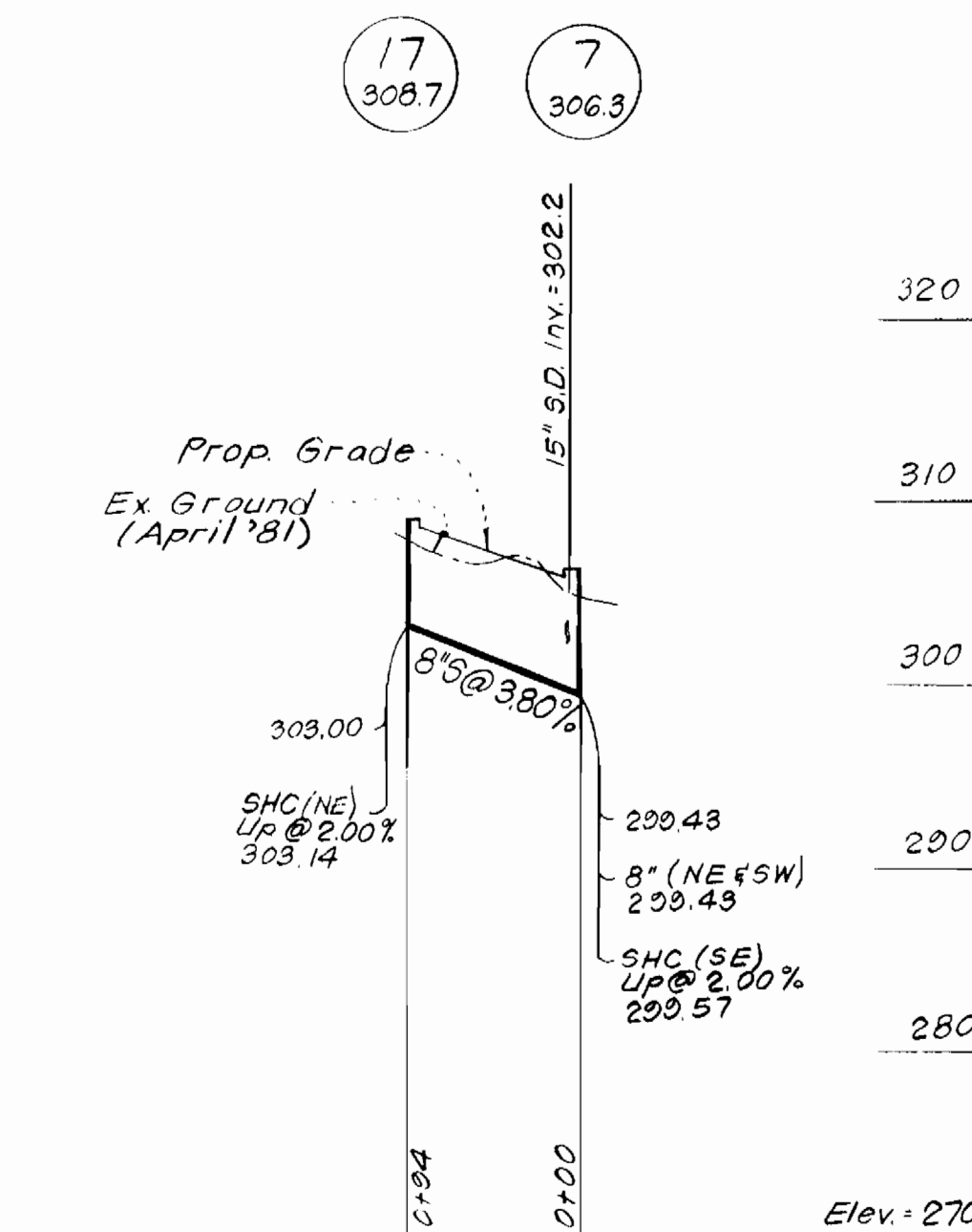
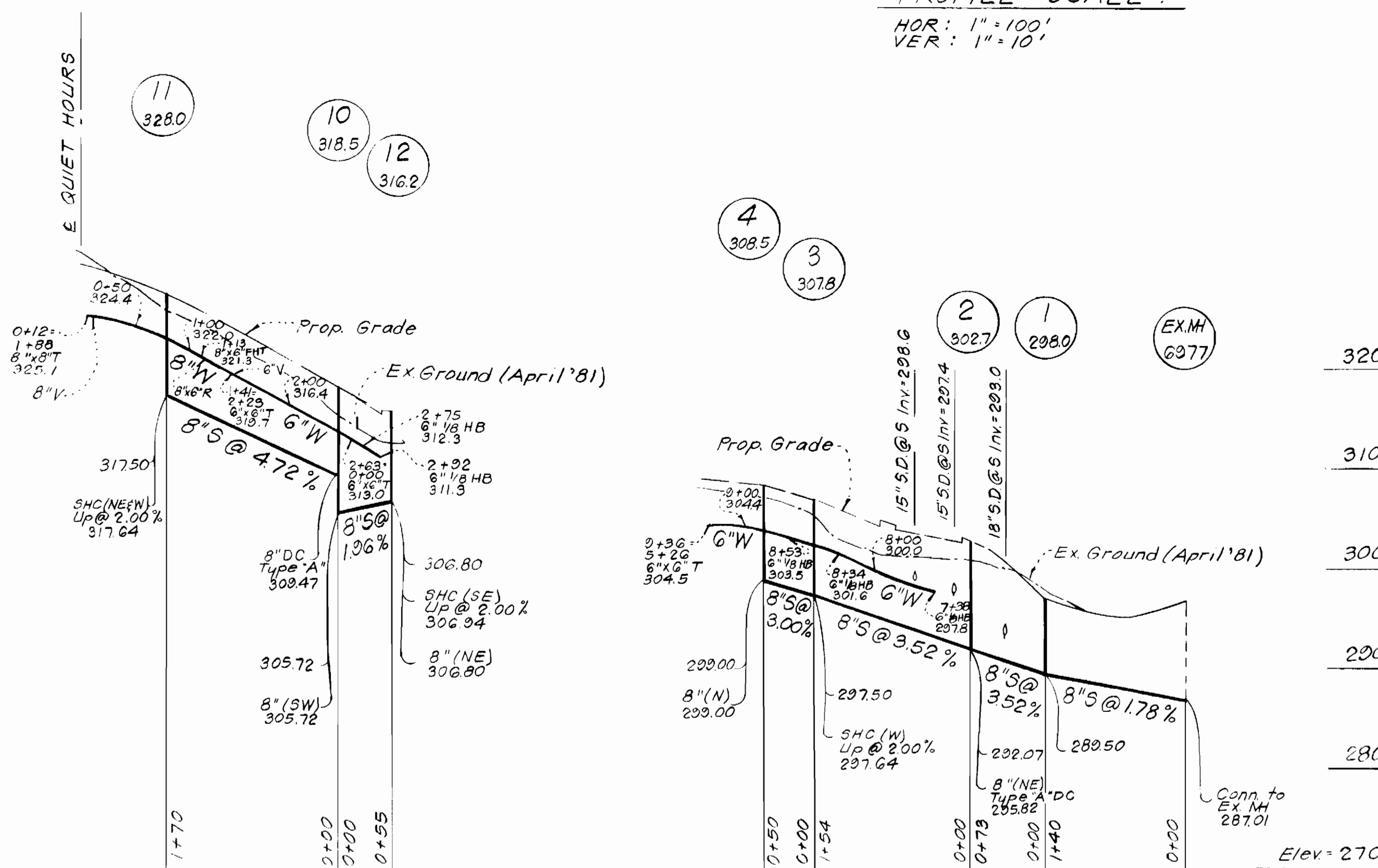
COLUMBIA
 VILLAGE OF OWEN BROWN
 6TH ELECTION DISTRICT

DRAWING NO. 2 OF 3
 SCALE: As Shown



SECOND MORNING COURT

PROFILE SCALE:
HOR: 1"=100'
VER: 1"=10'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
9-2-81
DIRECTOR OF PUBLIC WORKS - DATE
CHIEF, BUREAU OF ENGINEERING - DATE
CHIEF, BUREAU OF UTILITIES - DATE
CHIEF, LAND DEVELOPMENT - DATE

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400

CONTRACT NO. 2A-1007-D

PROFILES FOR
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF OWEN BROWN
6TH ELECTION DISTRICT

DRAWING
NO. 3
OF 3
SCALE
As Shown

2.	Changed Grades: MH 13-15 & MH 2-7.	9-29-81
No.	Revision	Date
1.	Corrected minor drafting errors per State Health Comments.	9-16-81

As Built - November 1981

1007/3 WS