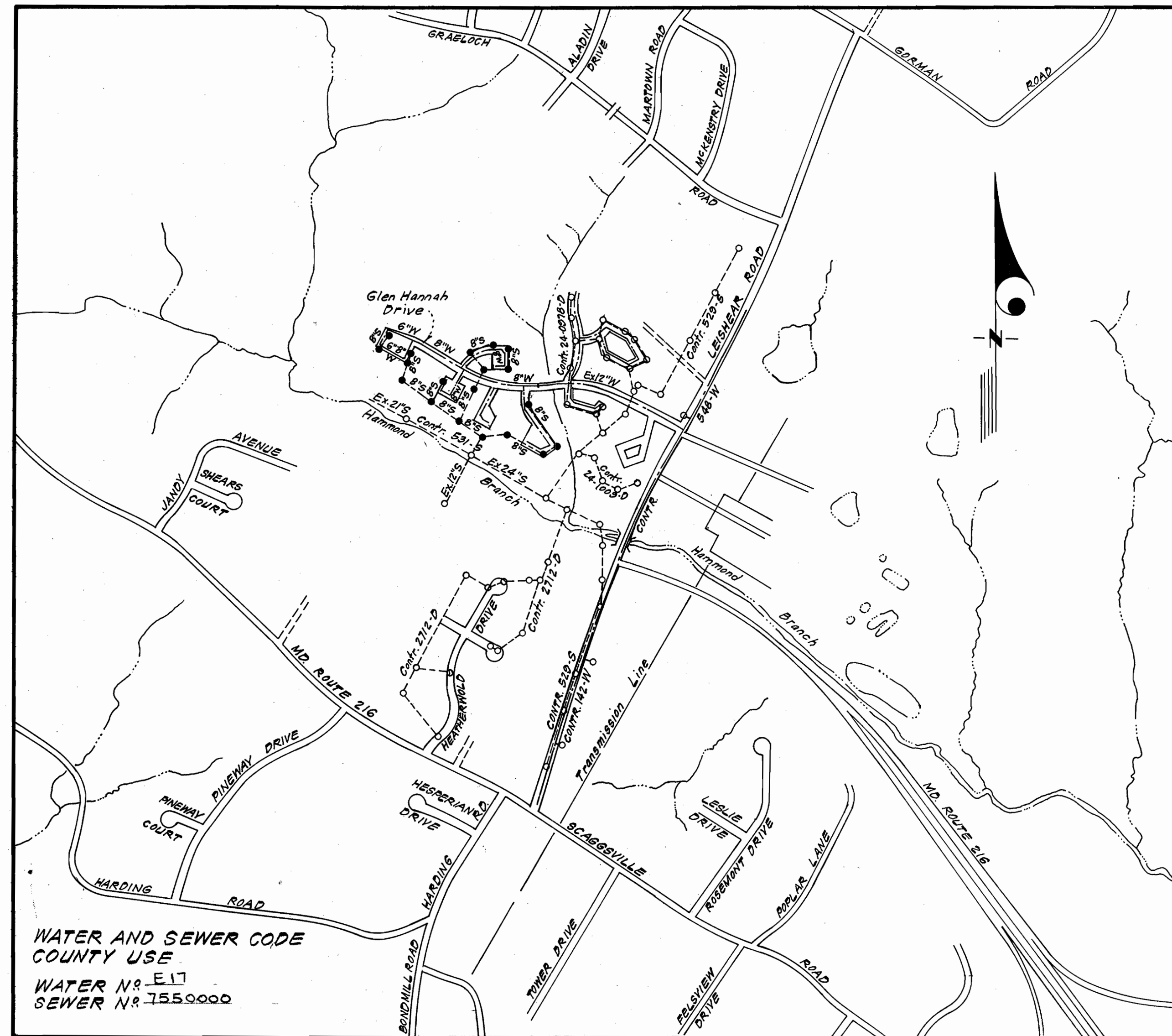


Type of Buildings	Townhouse & Duplex
Number of Lots	152 Townhouse & 6 Duplex
Number of Water House Connections	160
Number of Sewer House Connections	160
Drainage Area	Little Patuxent



WATER AND SEWER CODE
COUNTY USE
WATER N^o E-17
SEWER N^o 7550000

VICINITY MAP
Scale: 1" = 600'

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 Inspector, 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 tunneling 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 & 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" - 1-559-0100
 - 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
- 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 Inspector. 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 tees shall be strapped to tees.
- 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 main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C., 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.
- 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'.
- Manholes 1 thru 4 shall have watertight frames and covers.

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with Road Construction Plan F.83-64; Drawings 5 & 6 Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

SIGNATURE: *[Signature]* DATE: 4-4-83

U.S. SOIL CONSERVATION SERVICE

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

APPROVED: *[Signature]* DATE: 4-4-83
Howard S.C.D. DATE

CONTRACT NO. 24-1107-D W&S

MURRAY HILL

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIALS/SUPPLIER
6"W	1091	963	
8"W	2561	2696	
12"W	50	50	
8"S	3884	3801	
F.H.	6	6	
8"V	8	8	
6"V (excluding FH)	4	4	



[Signature]
3-31-83

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS - DATE: 4-5-83
CHIEF, BUREAU OF ENGINEERING - DATE: 4-5-83
CHIEF, BUREAU OF UTILITIES - DATE: 4-4-83
CHIEF, LAND DEVELOPMENT - DATE: 4-5-83

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

CONTRACT NO. 24-1107-D

TITLE SHEET

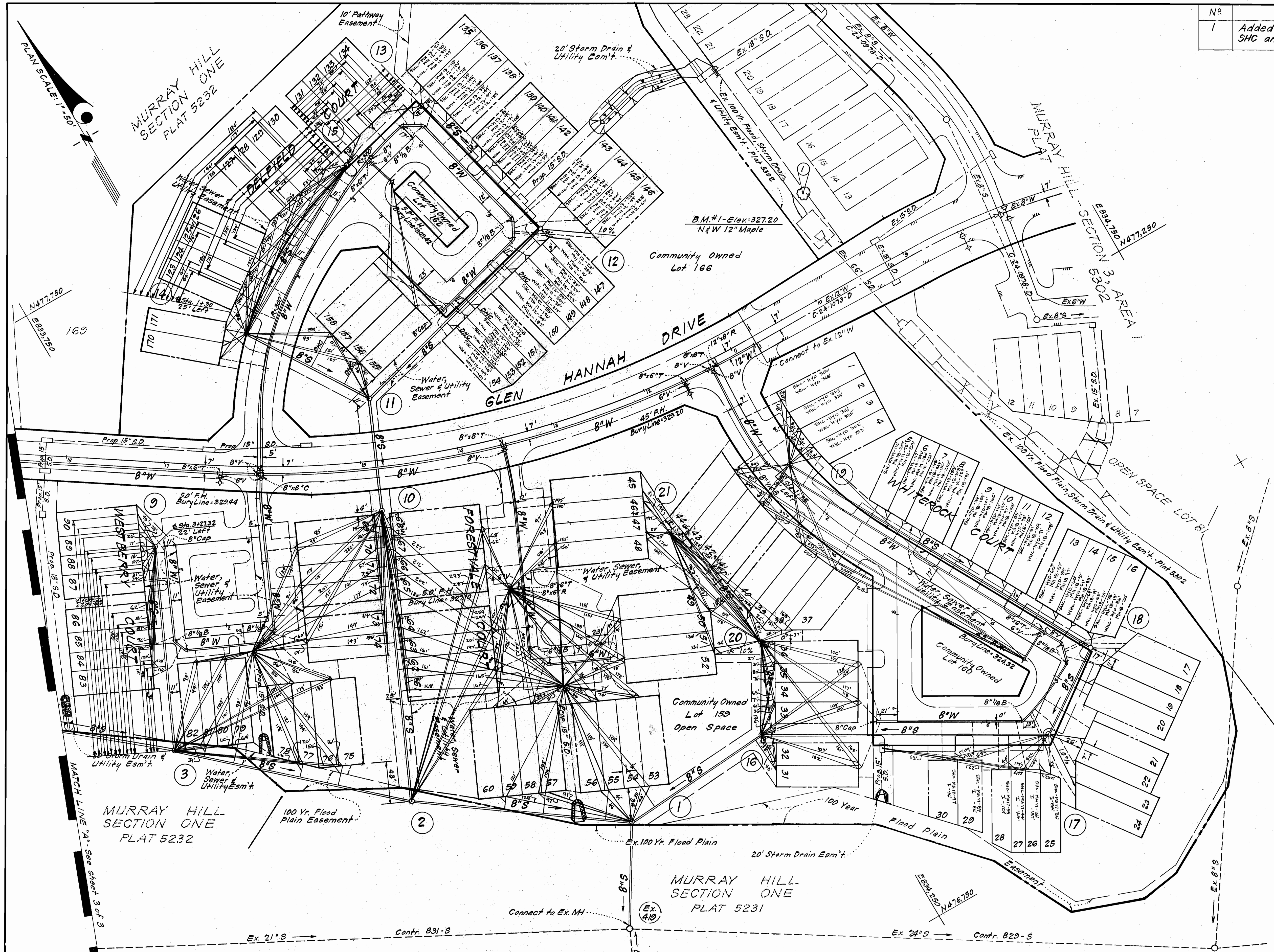
MURRAY HILL
SECTION FOUR AREA ONE
6TH ELECTION DISTRICT

DRAWING NO. 1 OF 5
SCALE: As Shown

AS-BUILT

1107/1 WS

NO.	REVISION	DATE
1	Added Lots 170 & 171 along with SHC and WHC's for those lots.	4-10-84



G. Nelson Clark
3-31-83

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John F. Nunn 4-5-83 DIRECTOR OF PUBLIC WORKS - DATE
Robert Wood 4-14-83 CHIEF, BUREAU OF UTILITIES - DATE
William J. ... 4-15-83 CHIEF, BUREAU OF ENGINEERING - DATE
... CHIEF, LAND DEVELOPMENT DIVISION - DATE

CONTRACT NO. 24-1107 D

PLAN & PROFILES OF
WATER & SEWER MAINS

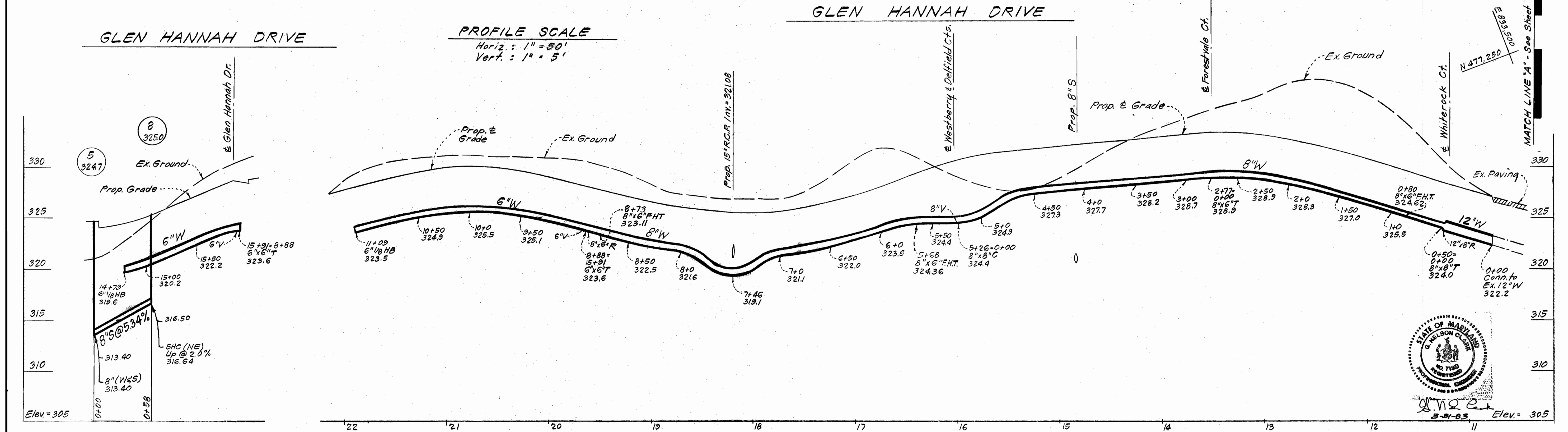
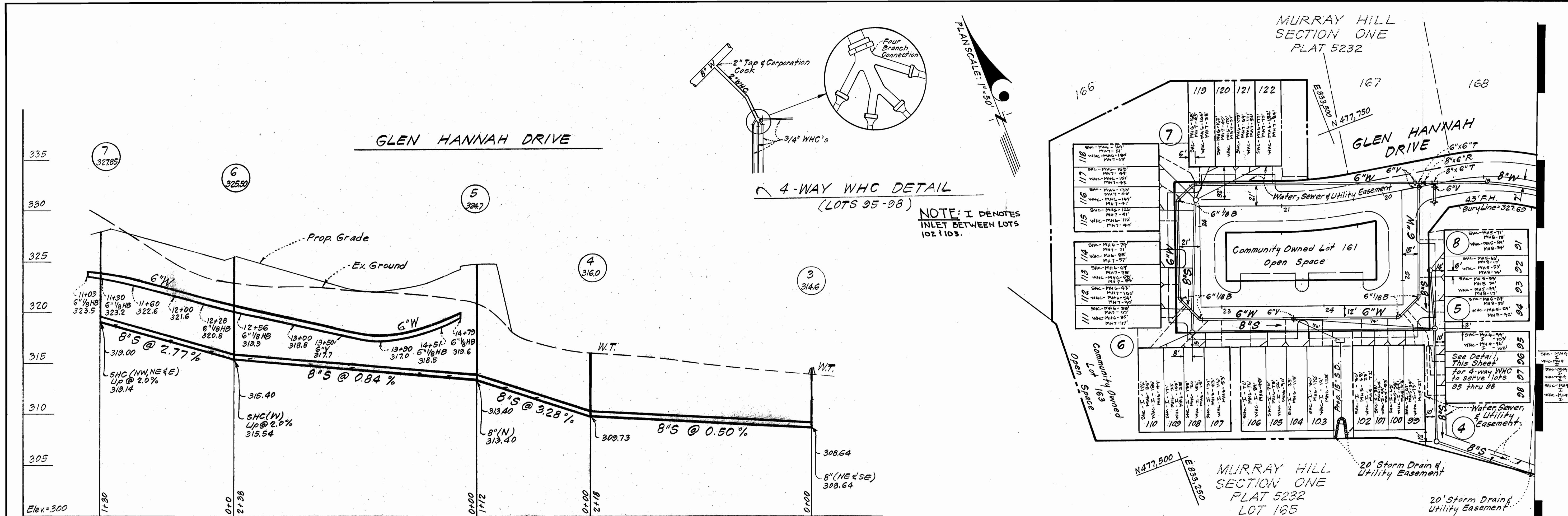
MURRAY HILL
SECTION FOUR AREA ONE
6TH ELECTION DISTRICT

DRAWING NO. 2 OF 5 SCALE As Shown

AS-BUILT

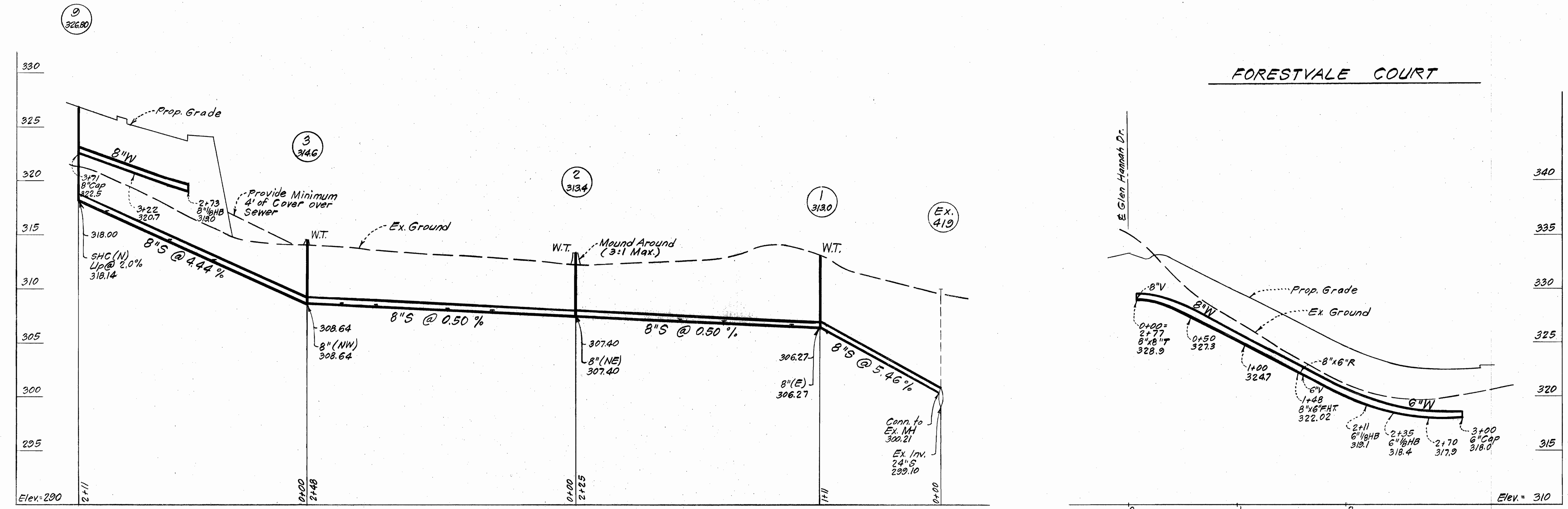
110712 WS

110713 WS

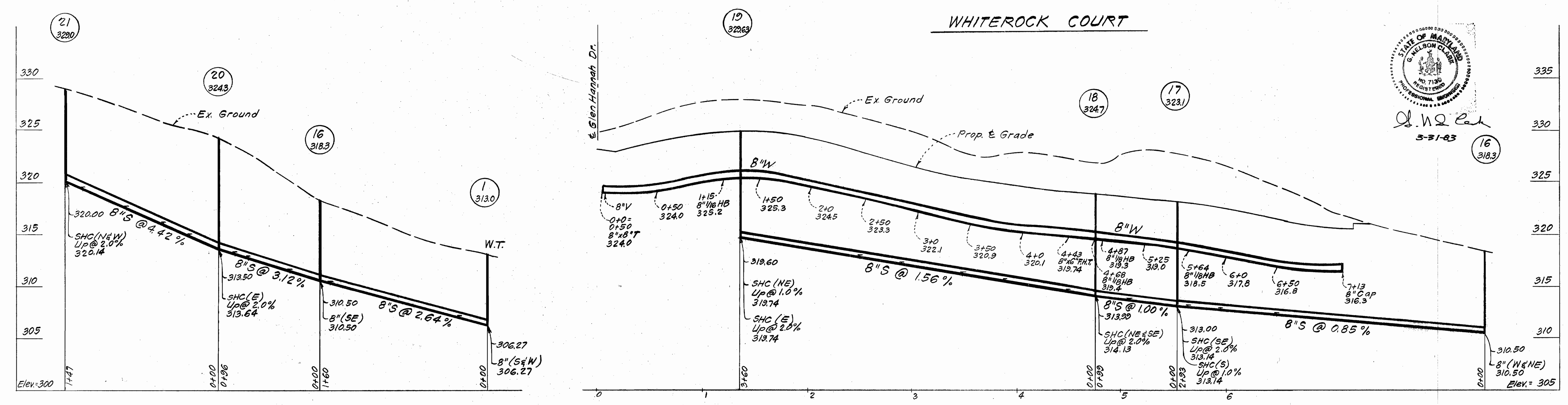


<p>CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>John F. ...</i> DIRECTOR OF PUBLIC WORKS - DATE 4-5-83</p> <p><i>Robert ...</i> CHIEF, BUREAU OF UTILITIES - DATE 4-4-83</p>	<p>CONTRACT NO. 24-1107 D</p>	<p>PLAN & PROFILES OF WATER & SEWER MAINS</p>	<p>MURRAY HILL SECTION FOUR AREA ONE 6TH ELECTION DISTRICT</p>	<p>DRAWING NO. 3 OF 5</p>	<p>SCALE As Shown</p>
	<p>AS-BUILT</p>					

1107/4 WS



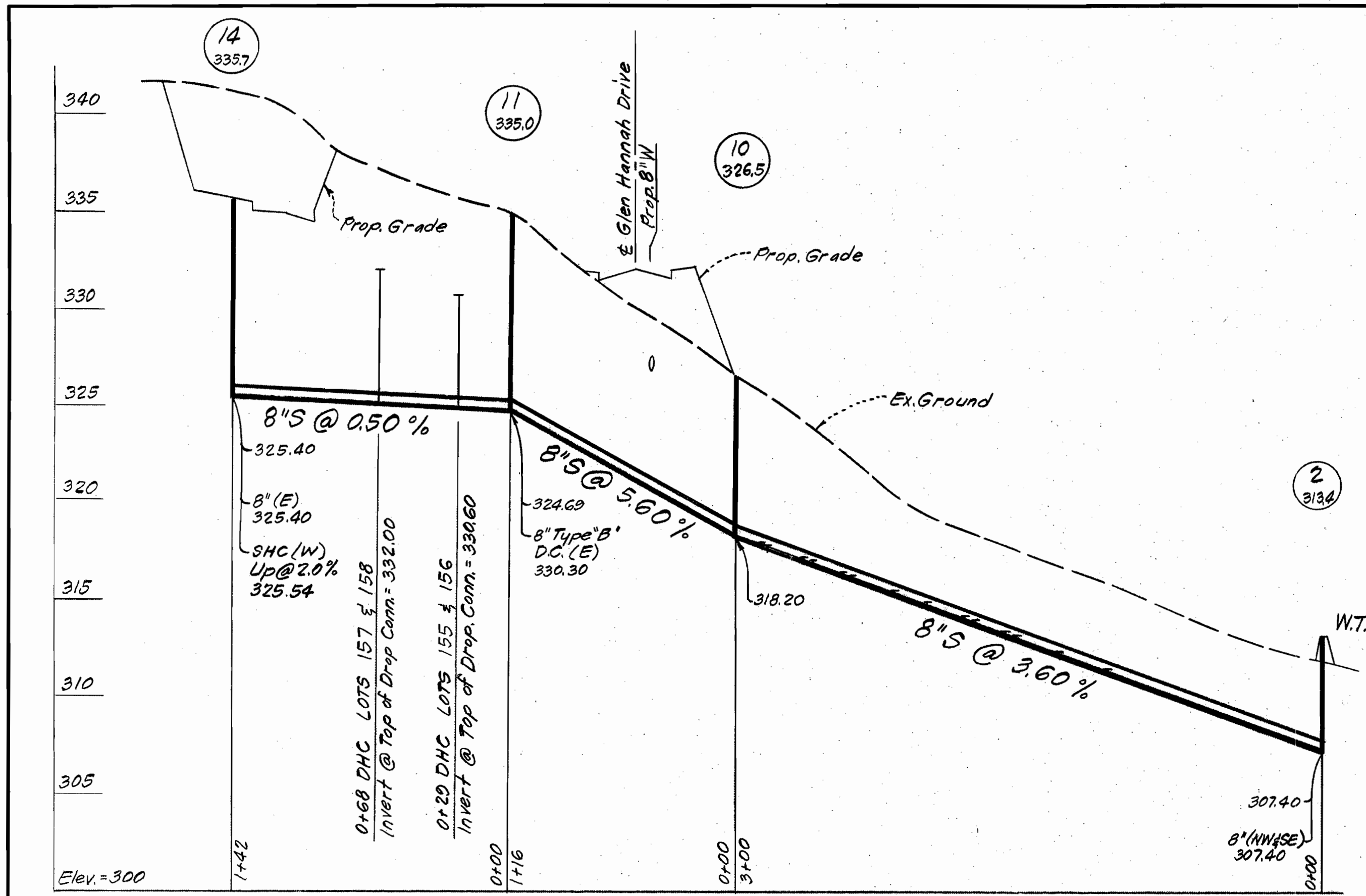
PROFILE SCALE
 Horiz: 1" = 50'
 Vert: 1" = 5'



STATE OF MARYLAND
 PROFESSIONAL ENGINEERING
 G. W. P. [Signature]
 5-31-83
 16 (3183)

<p>CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS - DATE: [Signature] 4/5/83 CHIEF, BUREAU OF ENGINEERING - DATE: [Signature] 4/5/83 CHIEF, BUREAU OF UTILITIES - DATE: [Signature] 4/5/83 CHIEF, LAND DEVELOPMENT - DATE: [Signature] 4/5/83</p>	<p>CONTRACT NO. 24-1107 D</p>	<p>PROFILES</p>	<p>MURRAY HILL SECTION FOUR AREA ONE 6TH ELECTION DISTRICT</p>	<p>DRAWING NO. 4 OF 5</p>	<p>SCALE As Shown</p>
	AS-BUILT					

110715 WS

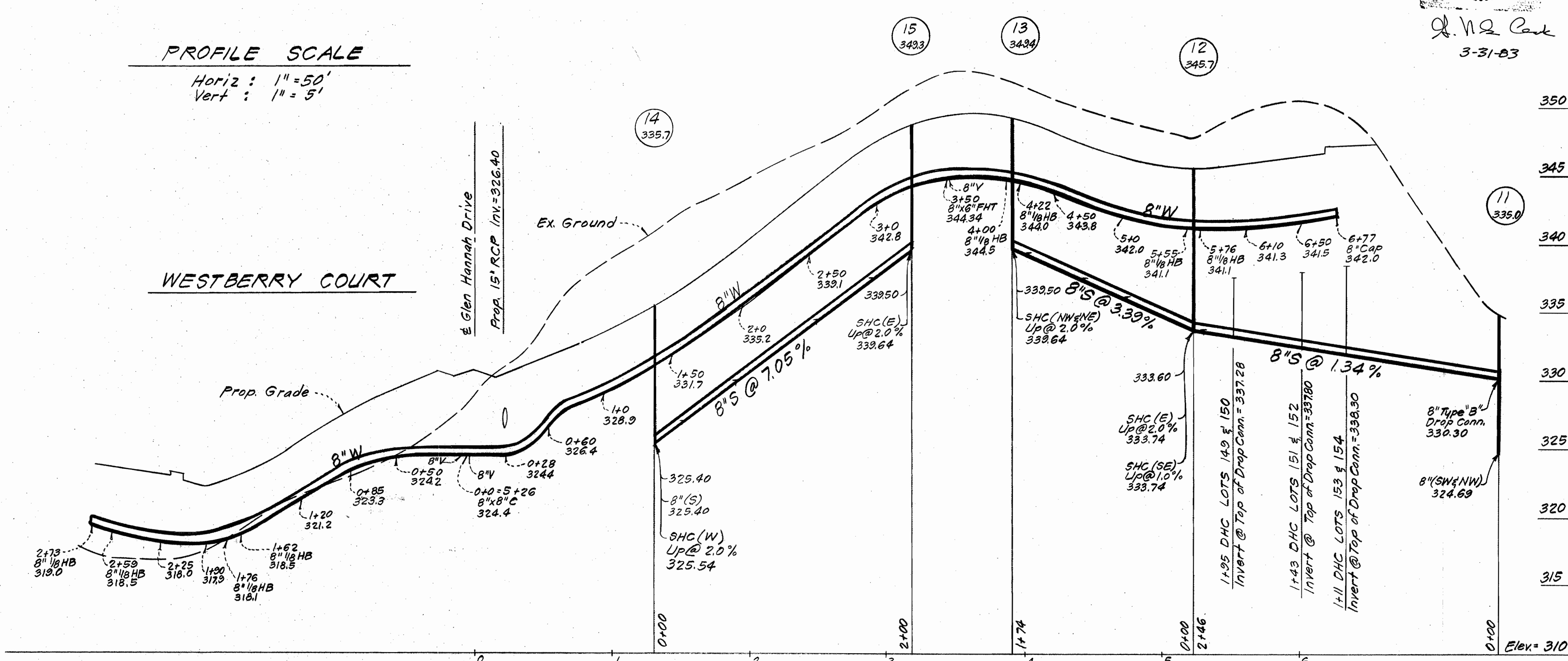


SEWER ELEVATION TABLE

LOT	INV@P.L.	MINICELLAR	LOT	INV@P.L.	MINICELLAR	LOT	INV@P.L.	MINICELLAR	LOT	INV@P.L.	MINICELLAR
1 & 2	320.30	323.3	45 & 46	321.18	324.2	75 & 76	308.35	311.4	119 & 120	319.84	322.8
3 & 4	320.36	323.4	47 & 48	320.62	323.6	77 & 78	308.43	311.4	121 & 122	320.58	323.6
5 & 6	318.10	321.2	49 & 50	316.10	319.2	79 & 80	308.87	311.9	123 & 124	328.38	331.4
7 & 8	317.58	320.6	51 & 52	313.70	316.7	81 & 82	308.87	311.9	125 & 126	331.28	334.3
9 & 10	316.66	319.7	53 & 54	307.63	310.6	83 & 84	312.87	315.9	127 & 128	335.42	338.4
11 & 12	316.04	319.0	55 & 56	307.15	310.1	85 & 86	314.69	317.7	129 & 130	337.97	341.0
13 & 14	315.07	318.1	57 & 58	307.30	310.3	87 & 88	317.31	320.3	131 & 132	340.34	343.3
15 & 16	314.41	317.4	59 & 60	307.34	310.3	89 & 90	318.72	321.7	133 & 134	340.46	343.5
17 & 18	314.77	317.8	61	311.84	314.8	91 & 92	317.08	320.1	135 & 136	340.08	343.1
19 & 20	314.19	317.2	62	312.60	315.6	93 & 94	315.19	318.2	137 & 138	338.39	342.0
21 & 22	313.80	316.9	63	313.32	316.3	95 & 96	312.86	315.9	139 & 140	337.19	340.2
23 & 24	313.75	316.8	64	314.11	317.1	97 & 98	311.84	314.8	141 & 142	336.18	339.2
25 & 26	313.79	316.8	65	315.55	318.5	99 & 100	314.10	317.1	143 & 144	334.46	337.5
27 & 28	313.53	316.5	66	316.34	319.3	101 & 102	314.35	317.3	145 & 146	334.27	337.3
29 & 30	312.86	315.9	67	317.06	320.1	103 & 104	314.89	317.9	147 & 148	333.83	336.8
31 & 32	311.12	314.1	68	317.89	320.9	105 & 106	315.24	318.2	149 & 150	337.50	340.5
33 & 34	311.86	314.9	69	317.92	320.9	107 & 108	315.74	318.7	151 & 152	338.00	341.0
35 & 36	313.11	316.1	70	317.17	320.2	109 & 110	316.28	319.3	153 & 154	338.50	341.5
37 & 38	314.28	317.3	71	316.45	319.4	111 & 112	316.72	319.7	155 & 156	337.18	339.7
39 & 40	315.08	318.1	72	315.69	318.7	113 & 114	317.92	320.9	157 & 158	332.82	336.3
41 & 42	317.73	320.7	73	314.32	317.3	115 & 116	319.48	322.5	170 & 171	326.10	329.1
43 & 44	319.59	322.6	74	313.64	316.6	117 & 118	320.16	323.2			

NOTE: Minimum Cellar Elevations are approximate. Once actual location of house is known, cellar should be rechecked.

PROFILE SCALE
 Horiz : 1" = 50'
 Vert : 1" = 5'



J. W. Park
 3-31-83

NO.	REVISION	DATE
1	Added Lots 170 & 171 to Sewer Elevation Table and profiles	4-10-84

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
John F. ...
 DIRECTOR OF PUBLIC WORKS - DATE CHIEF, BUREAU OF ENGINEERING - DATE
Robert ...
 CHIEF, BUREAU OF UTILITIES - DATE CHIEF, LAND DEVELOPMENT - DATE DIVISION

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

CONTRACT NO. 24-11070

PROFILES

MURRAY HILL
 SECTION FOUR AREA ONE
 6TH ELECTION DISTRICT

DRAWING NO. 5 OF 5
 SCALE As Shown

AS-BUILT