

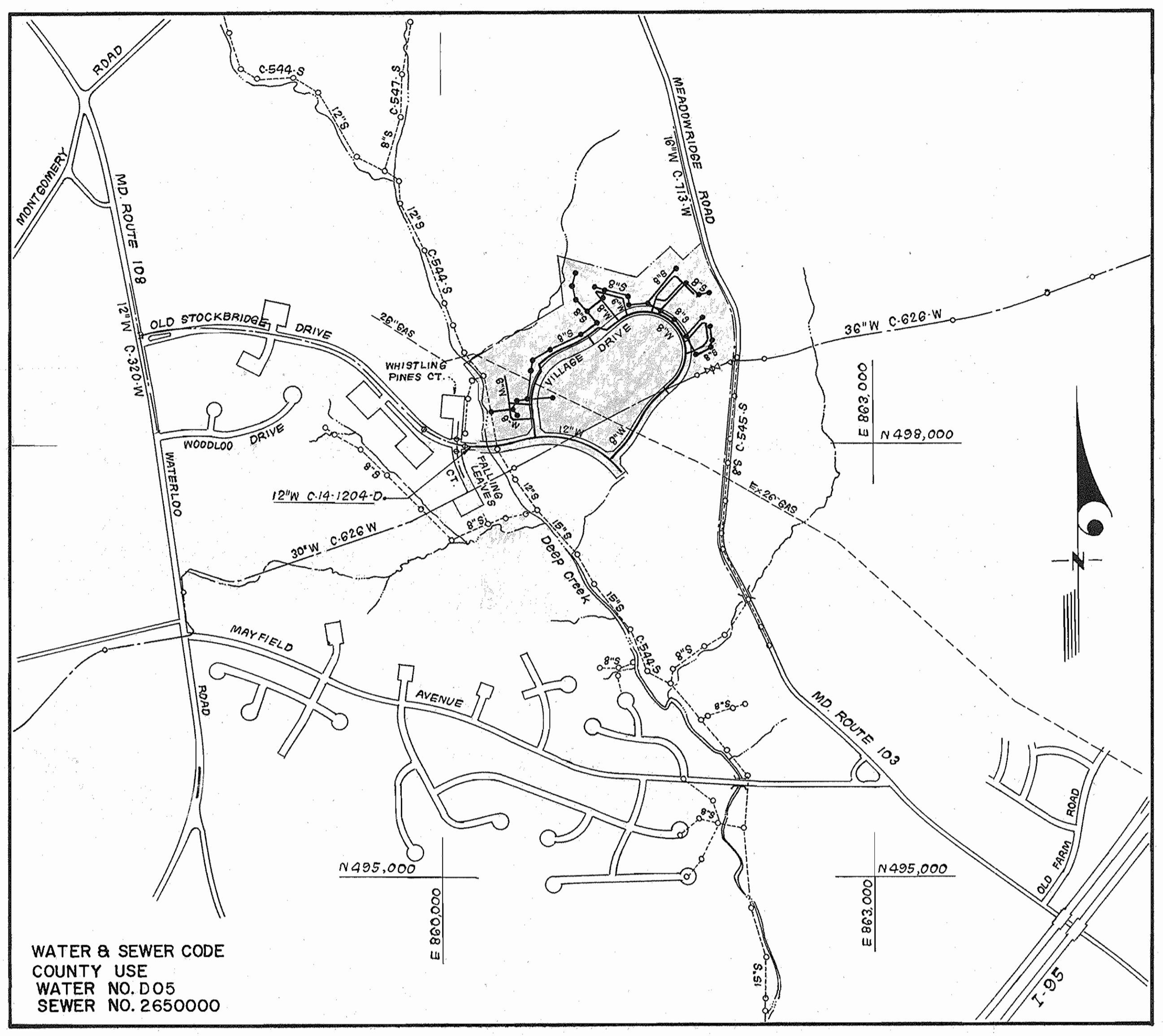
SEWER HOUSE CONNECTION TABLE

LOTS	Inv. @ R.	Min. C.	LOTS	Inv. @ R.	Min. C.
1 & 2	282.1	285.3	60 & 67	317.9	321.1
3 & 4	281.8	284.8	68 & 69	319.8	322.8
5	281.8	285.0	70	321.0	324.2
6 & 7	271.8	275.5	71 & 72	323.1	326.3
8 & 9	272.8	278.2	73 & 74	322.8	325.8
10 & 11	273.4	277.0	75	322.7	325.9
12	277.2	280.2	76 & 77	334.9	338.1
13	278.9	279.9	78 & 79	338.5	339.7
14 & 15	275.1	278.7	80 & 81	339.3	342.5
16 & 17	275.7	279.3	82 & 83	340.9	344.1
18 & 19	276.7	280.3	84 & 85	342.5	345.7
20 & 21	277.4	281.0	86	343.6	346.8
22 & 23	278.2	281.8	87 & 88	341.0	344.2
24 & 25	285.0	288.2	89 & 90	340.4	343.6
26 & 27	284.5	287.7	91 & 92	341.5	344.7
28 & 29	288.5	301.7	93 & 94	342.4	345.8
30 & 31	289.3	302.5	95 & 96	338.8	342.0
32	300.5	303.7	97 & 98	337.7	340.9
33 & 34	301.4	304.6	99 & 100	338.7	339.9
35 & 36	302.4	305.6	101 & 102	335.8	338.8
37 & 38	303.5	306.7	103 & 104	339.8	343.0
39 & 40	305.5	308.7	105 & 106	340.4	343.6
41 & 42	306.0	309.2	107 & 108	341.0	344.2
43 & 44	306.5	309.7	109 & 110	344.1	347.3
45	306.8	310.1	111 & 112	344.4	347.6
46	307.3	310.9	113 & 114	342.0	345.2
47 & 48	307.4	311.0	115 & 116	343.2	346.2
49 & 50	307.6	311.2	117 & 118	342.7	345.9
51 & 52	308.4	312.0	119 & 120	342.6	345.7
53 & 54	308.3	311.9	121 & 122	342.0	345.2
55	309.0	312.8	123 & 124	341.8	345.0
56 & 57	309.3	312.9	125 & 126	341.9	345.1
58 & 59	309.8	313.2	127 & 128	341.3	344.5
60 & 61	313.2	316.4	129 & 130	341.1	344.3
62	313.0	316.2	131 & 132	341.1	344.3
63 & 64	312.8	316.0			

TYPE OF BUILDING	Townhouses & Condominiums
Nº OF UNITS	132
Nº OF WHC'S	133 134
Nº OF SHC'S	135 136
DRAINAGE AREA	Potomac

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 materials and construction methods use Howard County Standard Specifications & Hb. Co. Design Manual, Volume II - The contractor shall have Volume II on the job.
- 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 - Contractor Services - 850-4820
 - Baltimore Gas & Electric Company - Underground Damage Control - 859-9004
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
 - "Miss Utility" - 1-559-0100
 - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
 - Colonial Pipeline Company - 795-1300
 - 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 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 Sections 1003 & 1008 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'.
- For all Copper Water House Connections, utilize flared type fittings only.
- Manholes designated thus: WT shall have Watertight Frames & Covers.



WATER & SEWER CODE
 COUNTY USE
 WATER NO. D05
 SEWER NO. 2650000

VICINITY MAP
 SCALE: 1" = 600'

QUANTITIES			
ITEM	EST'D.	AS BUILT	MATERIAL / SUPPLIER
12"W	1,100 LF	1016 LF	D.I.P. CLASS 52 GRIFFIN PIPE CO.
8"W	4,176 LF	4231 LF	DOUBLE THICKNESS CEMENT
6"W	1,404 LF	1519 LF	LINED
8" S	4,153 LF	4087 LF	PVC SDR-35 J.M. MANUFACTURING CORP.
6" BHC	1,674 LF	1570 LF	
2" WHC	92 LF	134 LF	COPPER TUBING - TYPE K - HOWELL MET.
1 1/2" WHC	78 LF	120 LF	
1" WHC	900 LF	9725 LF	
3/4" WHC	1,887 LF	2090 LF	
FH	15 EA	15 EA	C.I. US PIPE + MUELLER + KENNEDY (C)
4'-0" DIA MH	33 EA	33 EA	PRECAST CONC. ATL. CONC. PRODUCT
12" V	2 EA	2 EA	C.I. M.J. KENNEDY VALVE CO.
8" V	13 EA	13 EA	C.I. M.J. MUELLER VALVE CO.
6" V (excl FH)	9 EA	9 EA	" " " "
8" DC TYPE A	1 EA	1 EA	
1 1/2" METER	1 EA	1 EA	METER YOKE # H1423-MUELLER
1 1/2" DRAIN	1 EA	1 EA	

CONTRACT NO. 14 - 1555 - D
WOODLAND VILLAGE
SECTION I , LOTS 1 THRU 138 & PARCELS "A" & "B"
HOWARD COUNTY , MARYLAND
DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan E-87-87 ; Drawing , Sediment & Erosion Control.

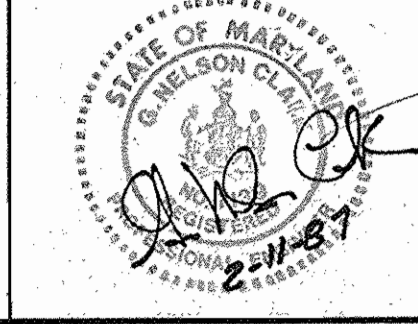
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
 Signature: *[Signature]* DATE: 5/20/87
 U.S. SOIL CONSERVATION SERVICE

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

APPROVED:
 Signature: *[Signature]* DATE: 5/20/87
 Howard S.C.D.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Signature: *[Signature]* DATE: 5-25-87
 Signature: *[Signature]* DATE: 5-25-87

CLARK - FINEPROCK & SACKETT
 ENGINEERS - PLANNERS - SURVEYORS
 7135 MINSTREL WAY COLUMBIA, MD. 21045
 (301) 381-7500



DES: JTR			
DRN: JTR			
CHK: CCM			
DATE: 2-10-87	JTR	2	Revised Section Number & Street Names
BY: NO.			REVISION
			DATE: 10-8-87

TITLE SHEET
 600' SCALE MAP NO. 37 BLOCK NO.

WOODLAND VILLAGE
 SECTION I , LOTS 1 THRU 138 & PARCELS "A" & "B"
 1ST ELECTION DISTRICT
 CONTRACT NO. 14 - 1555 - D
 SCALE AS SHOWN
 SHEET 1 OF 6

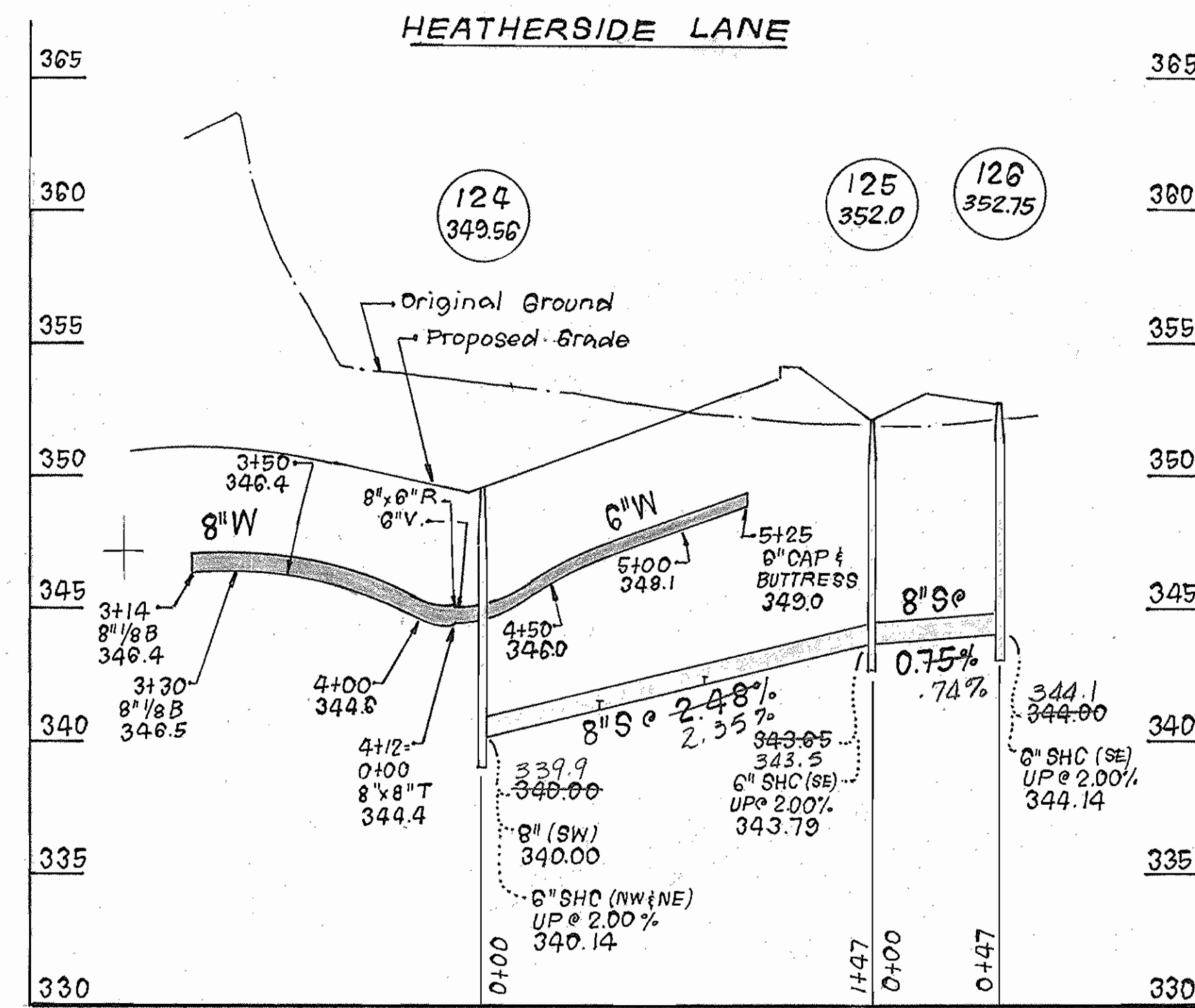
AS BUILT

UNIVERSITY OF MARYLAND
L 153 F 288

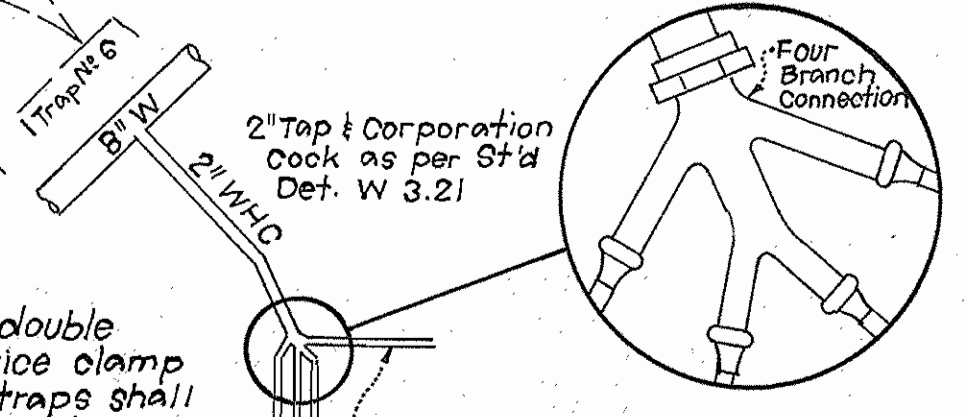
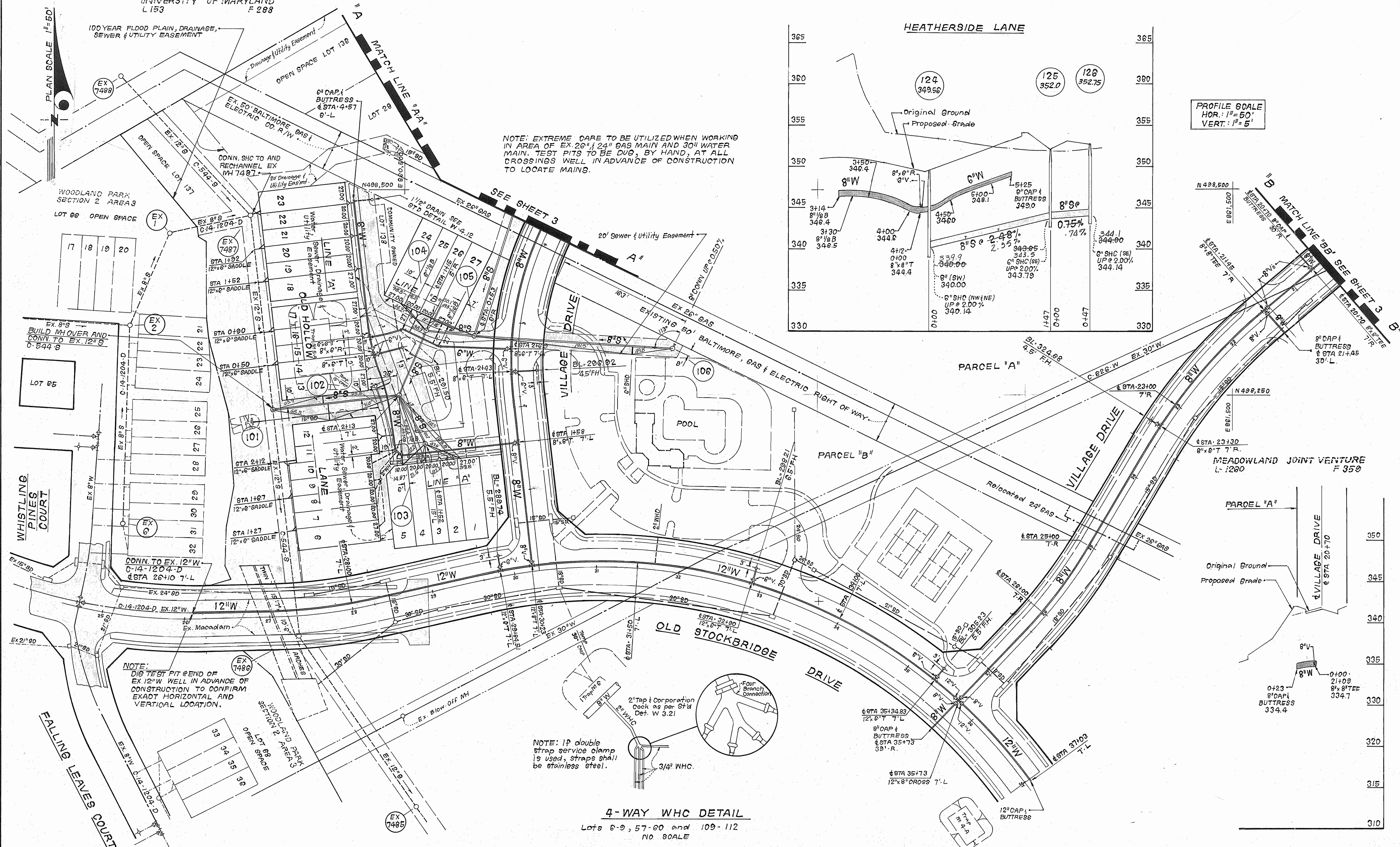
100 YEAR FLOOD PLAIN, DRAINAGE,
SEWER & UTILITY EASEMENT

PLAN SCALE 1"=50'

NOTE: EXTREME CARE TO BE UTILIZED WHEN WORKING
IN AREA OF EX 26" 24" GAS MAIN AND 30" WATER
MAIN. TEST PITS TO BE DUG, BY HAND, AT ALL
CROSSINGS WELL IN ADVANCE OF CONSTRUCTION
TO LOCATE MAINS.



PROFILE SCALE
HOR: 1"=50'
VERT: 1"=5'



4-WAY WHC DETAIL
Lots 6-9, 57-60 and 109-112
NO SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *James N. ...* DATE: 5-25-87
Chief, Bureau of Engineering: *...* DATE: *...*
Chief, Bureau of Utilities: *...* DATE: 5-25-87
Chief, Land Development Div.: *...* DATE: *...*

CLARK · FINEPROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
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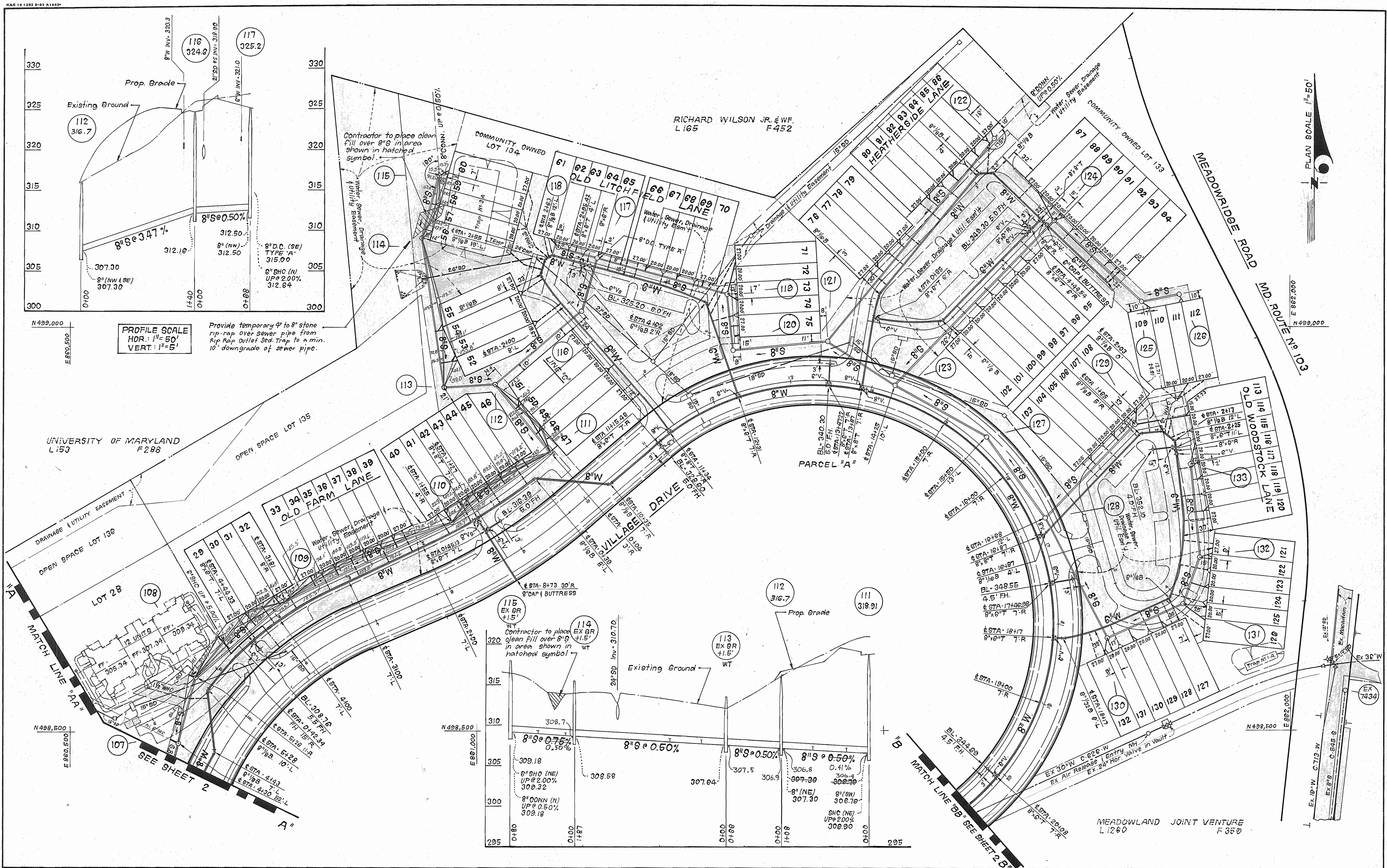


DES: JTR			
DRN: JTR			
CHK: CCM	JTR	2	Revised Section Number & Street Names
	VLM	1	Revised grade & rim elev to Private C.D. profile
DATE: 2-10-87	BY: NO.	REVISION	DATE

PLAN & PROFILES OF
WATER & SEWER MAINS

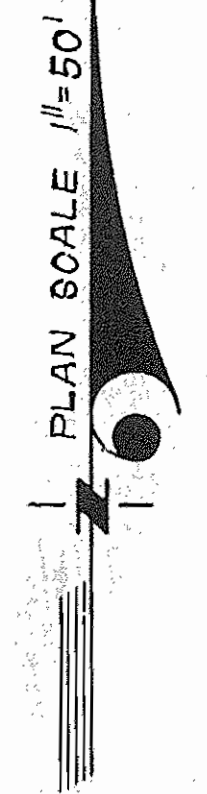
WOODLAND VILLAGE
SECTION I, LOTS 1 THRU 138 & PARCELS "A" & "B"
1ST ELECTION DISTRICT
CONTRACT NO. 14-1555-D

SCALE
AS SHOWN
SHEET
2 OF 6



PROFILE SCALE
 HOR.: 1"=50'
 VERT.: 1"=5'

Provide temporary 4" to 8" stone rip-rap over sewer pipe from Rip Rap Outlet Sed. Trap to a min. 10' downgrade of sewer pipe.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

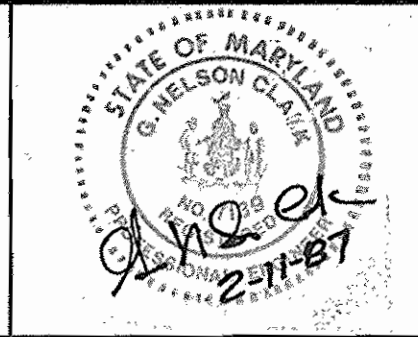
John F. Nummy 5-28-87
 DIRECTOR OF PUBLIC WORKS DATE

Richard H. ... 5-28-87
 CHIEF, BUREAU OF ENGINEERING DATE

... 5-28-87
 CHIEF, BUREAU OF UTILITIES DATE

... 5-28-87
 CHIEF, LAND DEVELOPMENT DIV. DATE

CFE CLARK · FINEPROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 7135 MINSTREL WAY COLUMBIA, MD. 21045
 (301) 381-7500



DES: JTR			
DRN: JTR			
CHK: CCM	JTR	2	Revised Section Number & Street Names
DATE: 2-10-87	VLM	1	Revised prop. grade on profiles
	BY	NO.	REVISION
			DATE

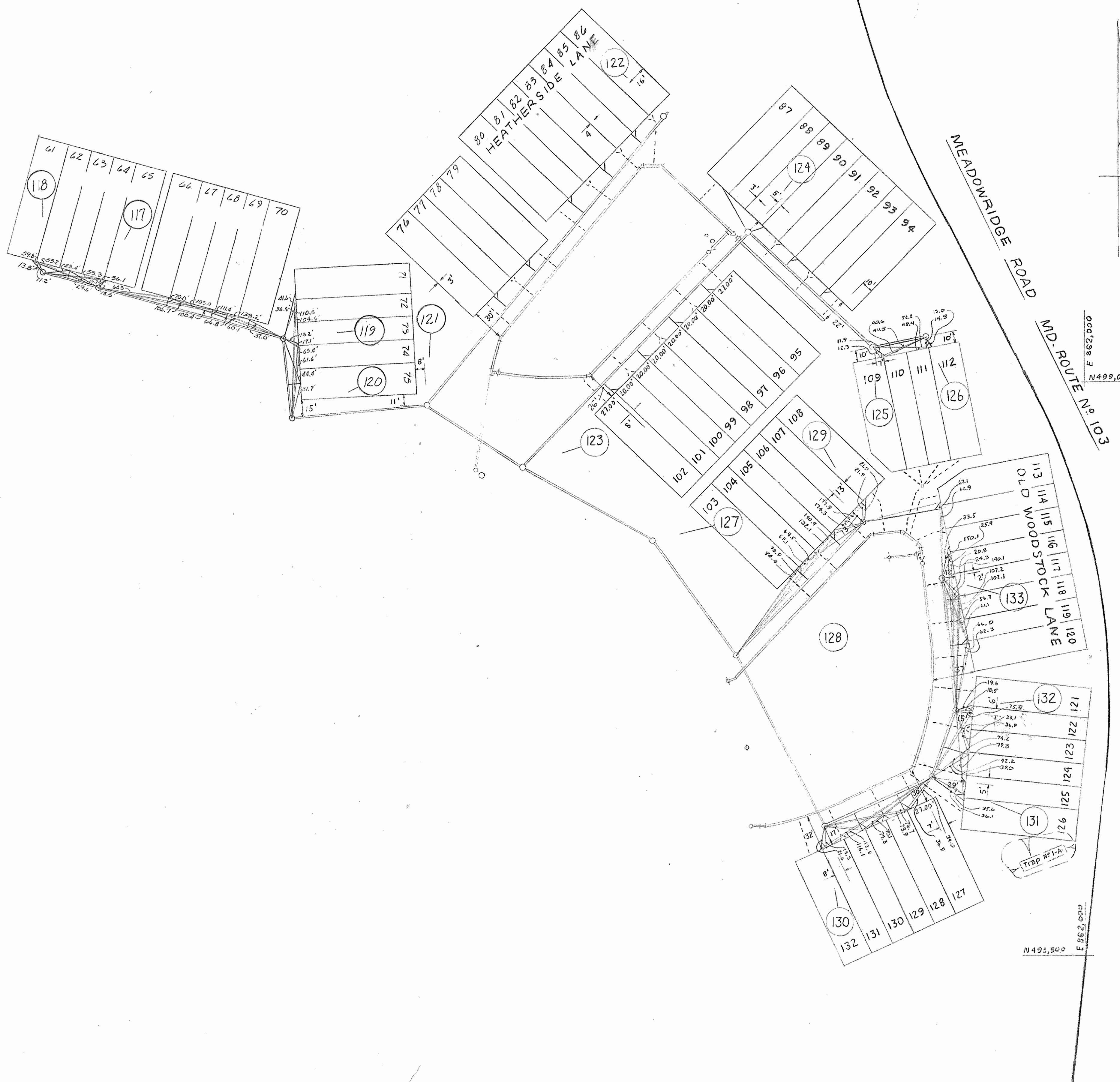
PLAN & PROFILES OF
 WATER & SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO.

WOODLAND VILLAGE
 SECTION I, LOTS 1 THRU 138 & PARCELS "A" & "B"
 1ST ELECTION DISTRICT
 CONTRACT NO. 14-1555-D

SCALE
 AS SHOWN

SHEET
 3 OF 6



DISTANCE FROM MH. # 117 TO :-		DISTANCE FROM MH. # 118	
LOT N ^o	DISTANCE	DISTANCE	
61	59.8	13.8	
62	55.7	11.2	
63	29.6	23.9	
64	16.1	53.3	
65	15.5	56.1	

DISTANCE FROM MH. # 117 TO :-		DISTANCE FROM MH. # 119	
LOT N ^o	DISTANCE	DISTANCE	
66	69.3	106.7	
67	70.0	109.4	
68	105.0	66.8	
69	111.9	60.1	
70	135.2	37.0	

DISTANCE FROM MH. # 121 TO :-		DISTANCE FROM MH. # 122	
LOT N ^o	DISTANCE	DISTANCE	
76	111.1	218.8	
77	117.4	212.7	
78	150.6	174.1	
79	158.4	171.3	
80	216.0	115.3	
81	224.8	104.6	
82	253.6	77.0	
83	265.0	65.8	
84	295.2	38.5	
85	305.9	27.3	
86	334.2	19.2	

DISTANCE FROM MH. # 123 TO :-		DISTANCE FROM MH. # 124	
LOT N ^o	DISTANCE	DISTANCE	
95	230.7	57.4	
96	226.5	61.8	
97	192.7	96.2	
98	182.8	105.0	
99	149.1	138.9	
100	143.2	145.0	
101	111.1	172.8	
102	103.0	184.5	

DISTANCE FROM MH. # 124 TO :-		DISTANCE FROM MH. # 125	
LOT N ^o	DISTANCE	DISTANCE	
87	13.3	189.1	
88	36.9	181.8	
89	15.6	196.1	
90	17.3	141.9	
91	46.0	105.4	
92	50.2	101.0	
93	86.6	66.0	
94	91.0	61.3	

BRUNING 44-132 69150

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____ CHIEF, BUREAU OF ENGINEERING _____ DATE _____

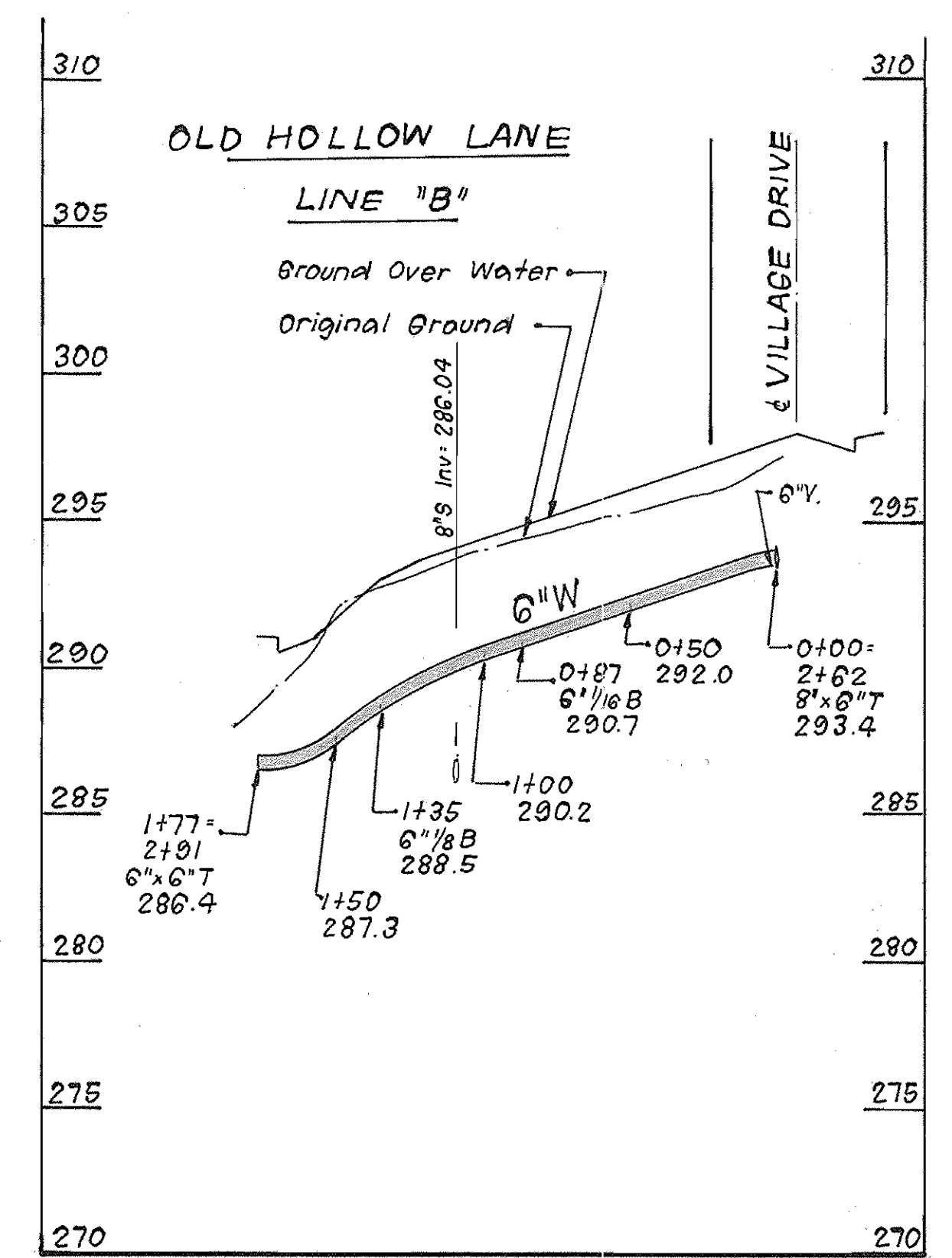
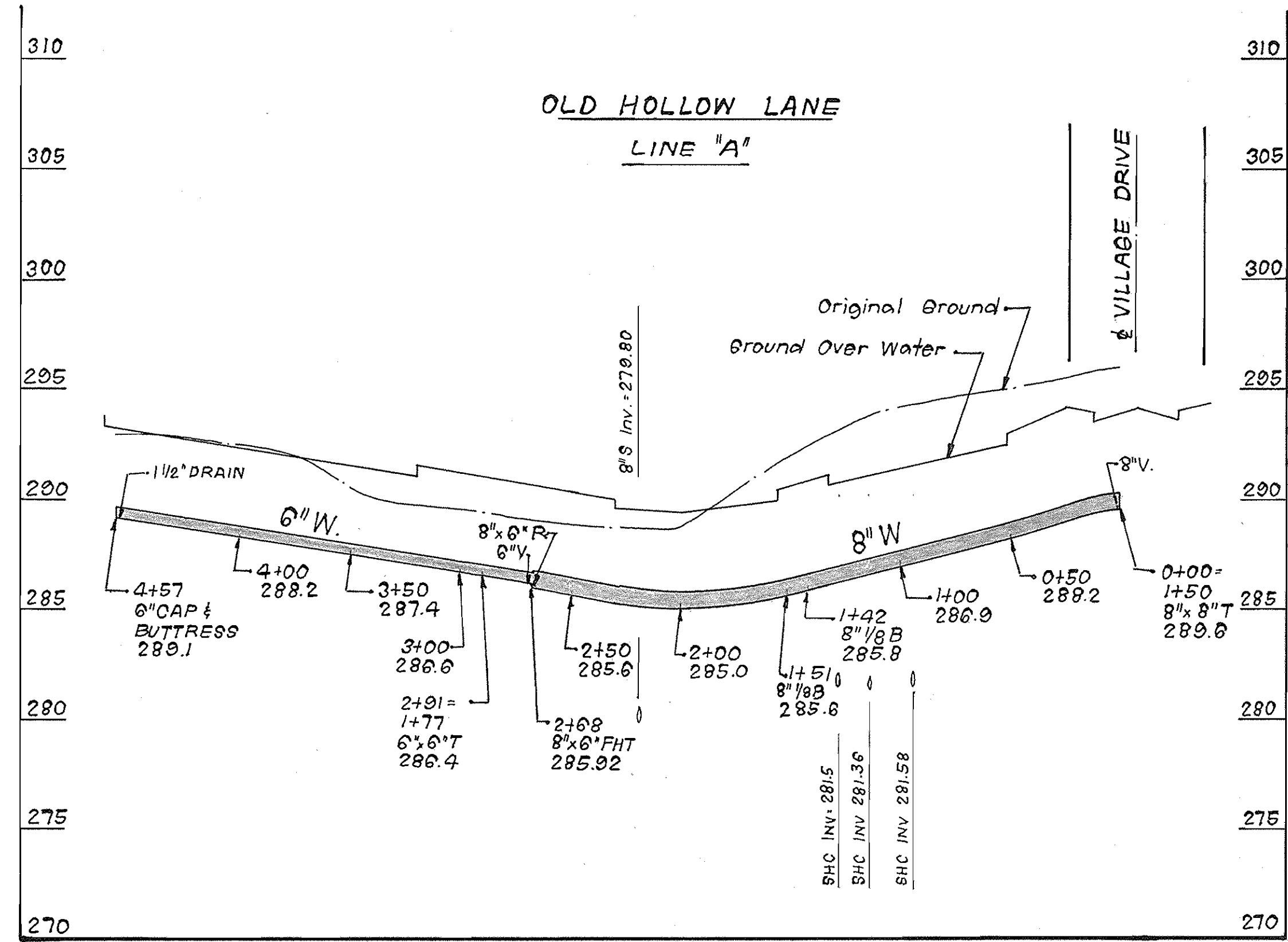
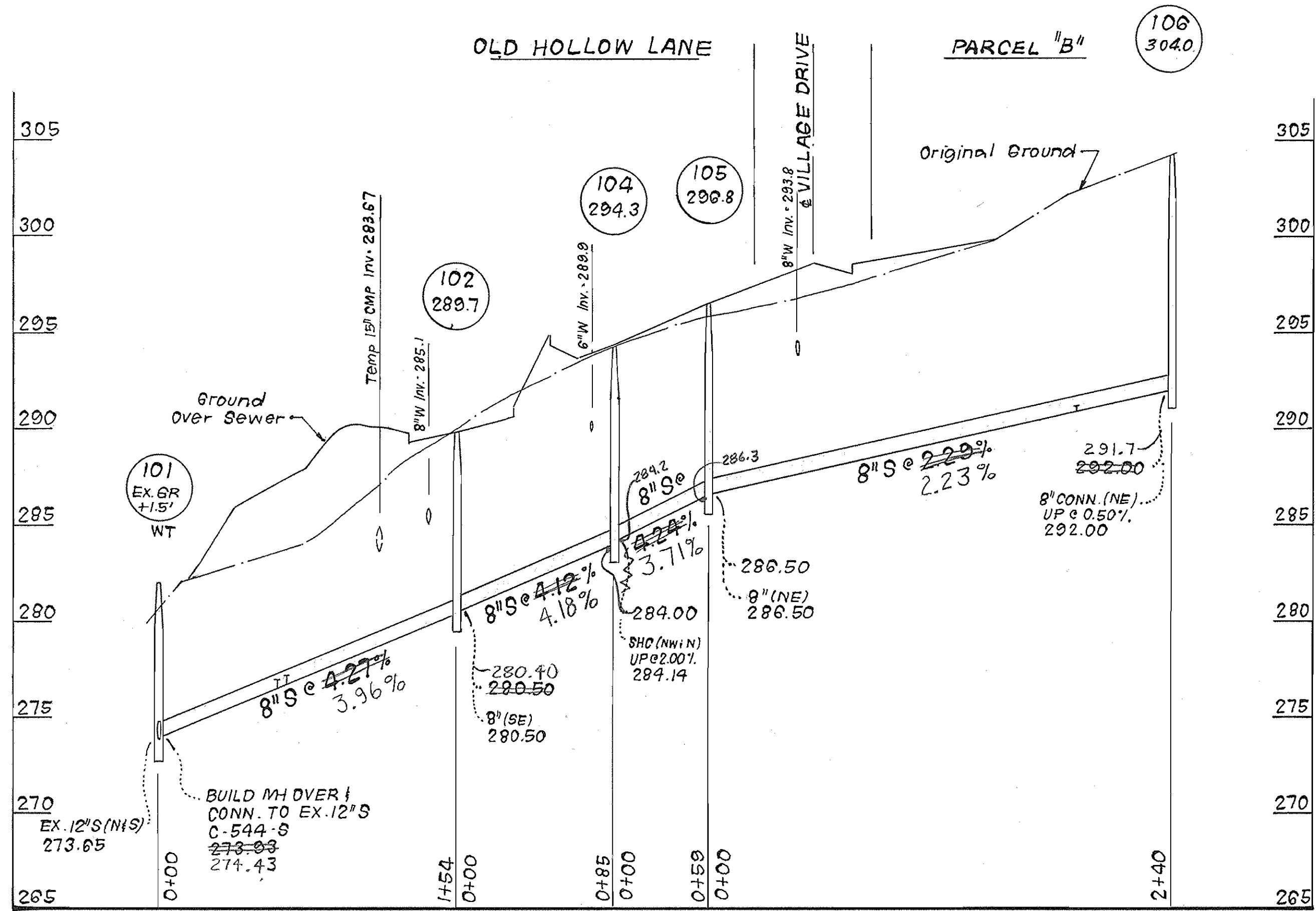
DES:				
DRN:				
CHK:				
DATE:				
BY:				
NO.:				
REVISION:				
DATE:				

600' SCALE MAP NO. _____ BLOCK NO. _____

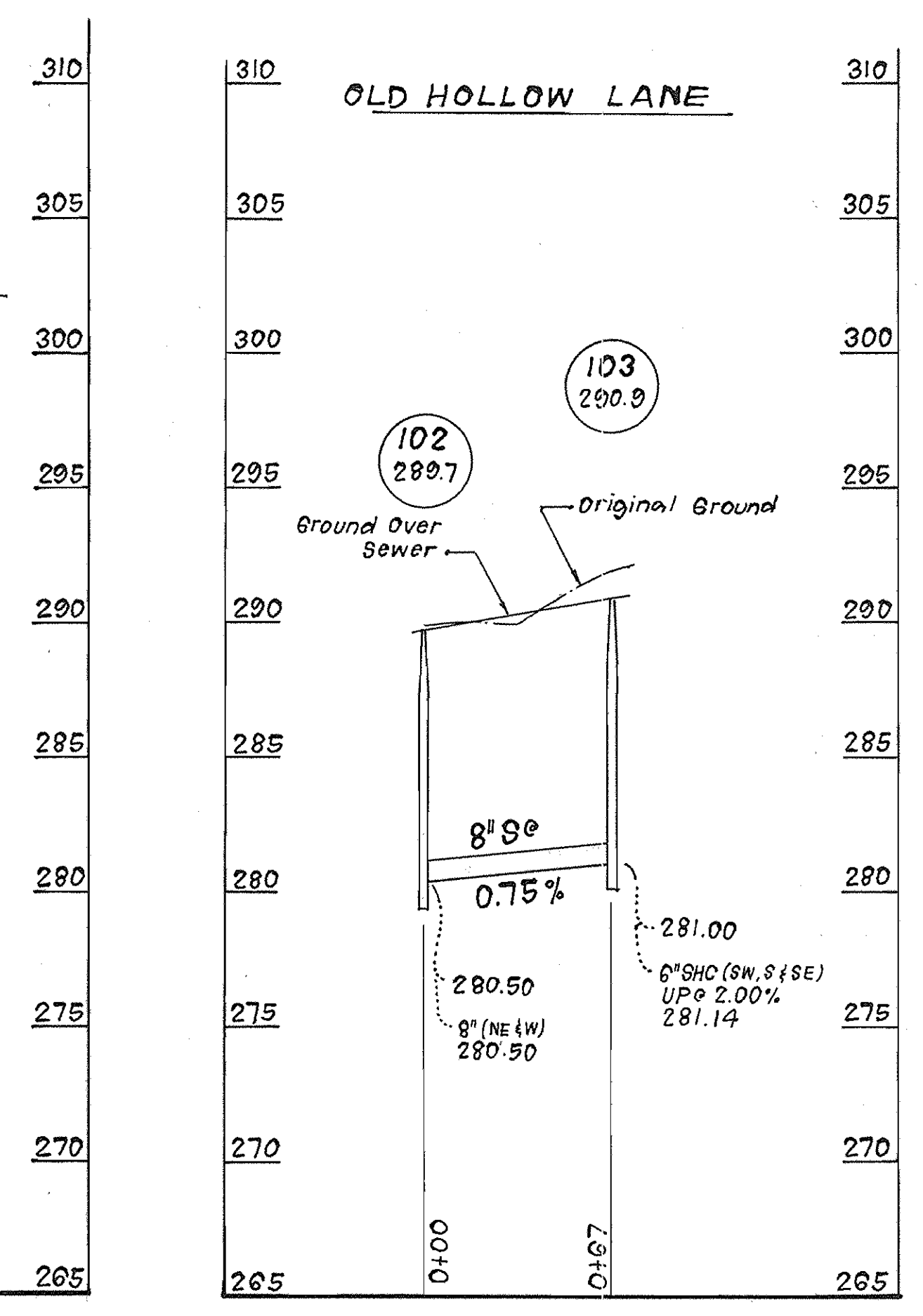
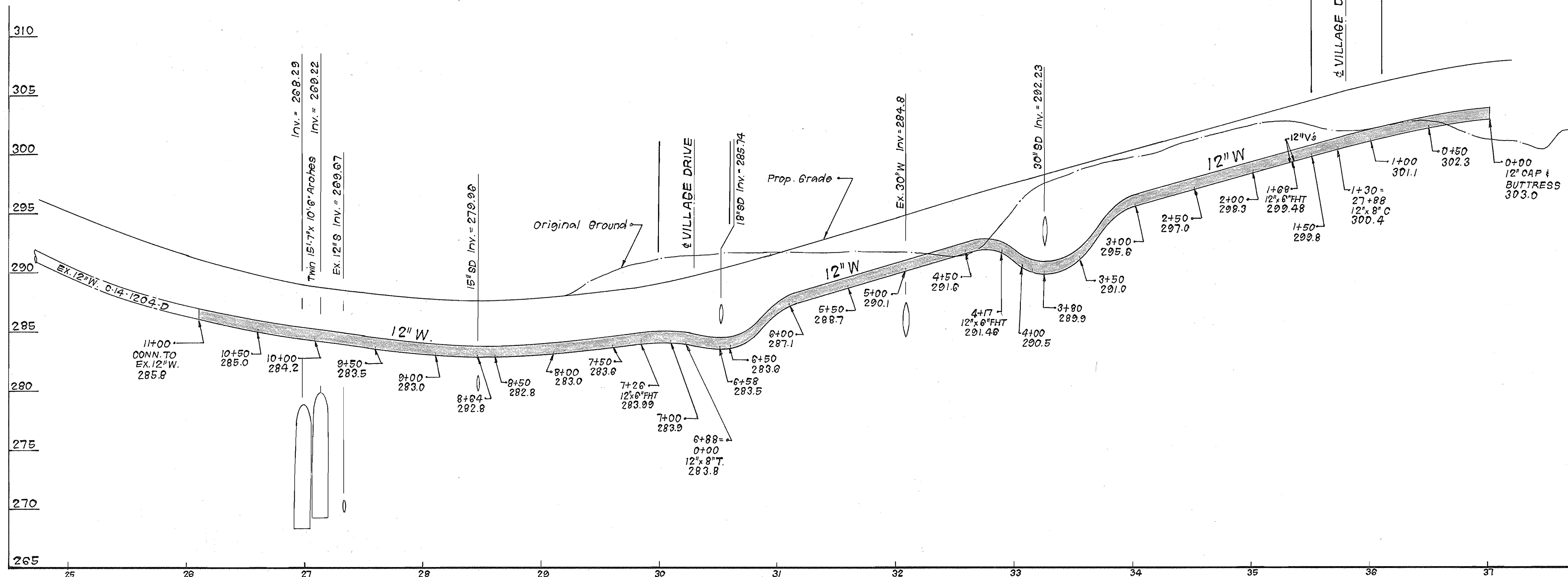
WOODLAND VILLAGE
CONTRACT NO 14-1555-17

SCALE AS SHOWN
SHEET 3A OF 6

AS-BUILT 11/30/87



OLD STOCKBRIDGE DRIVE



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* DATE: 5-21-87
 Chief, Bureau of Engineering: *[Signature]* DATE:
 Chief, Bureau of Utilities: *[Signature]* DATE: 5-25-87
 Chief, Land Development Div.: *[Signature]* DATE:
 State of Maryland Seal: *[Signature]* DATE: 2-11-87

CLARK FINEPROCK & SACKETT
 ENGINEERS - PLANNERS - SURVEYORS
 7135 MINSTREL WAY COLUMBIA, MD. 21045
 (301) 381-7500

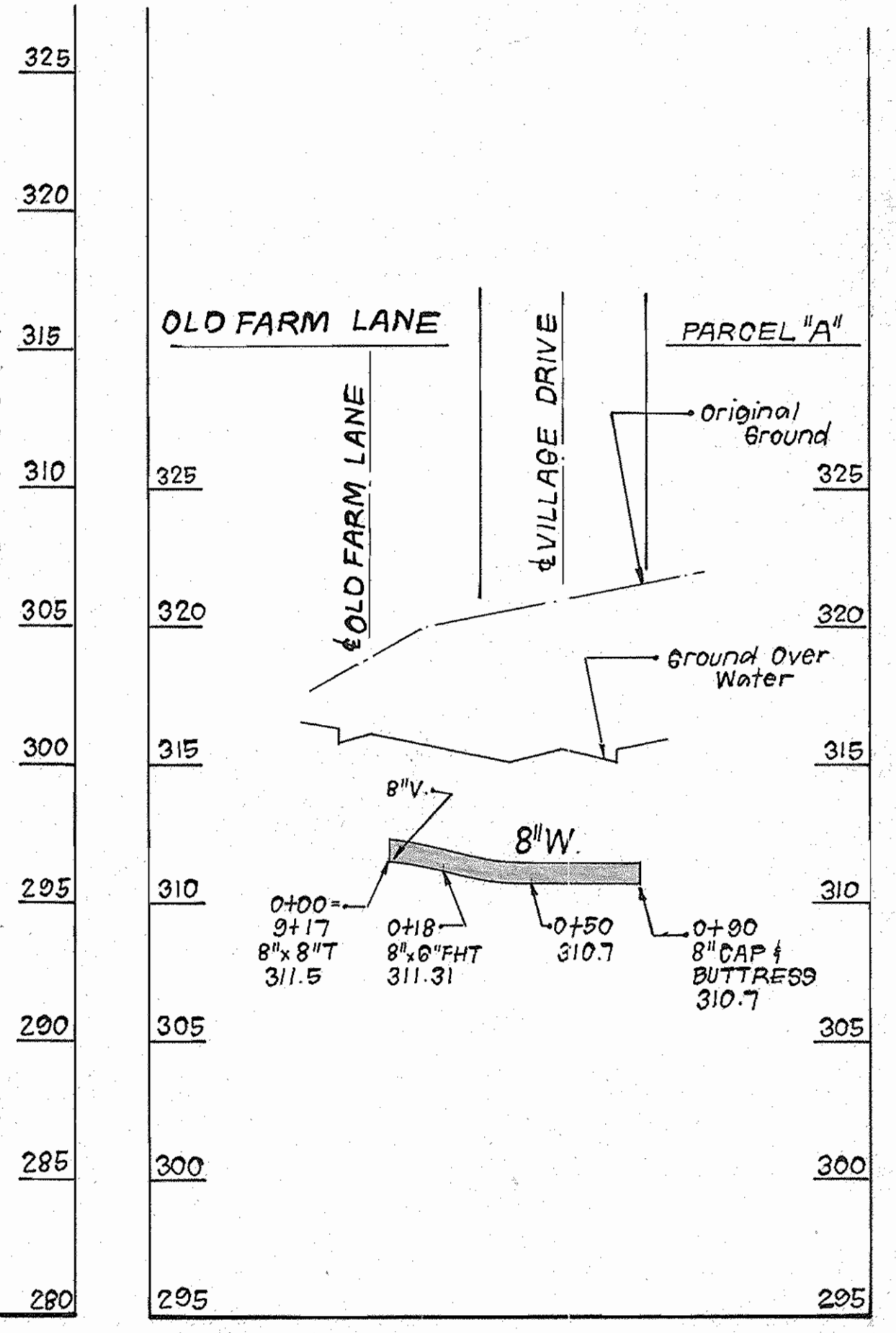
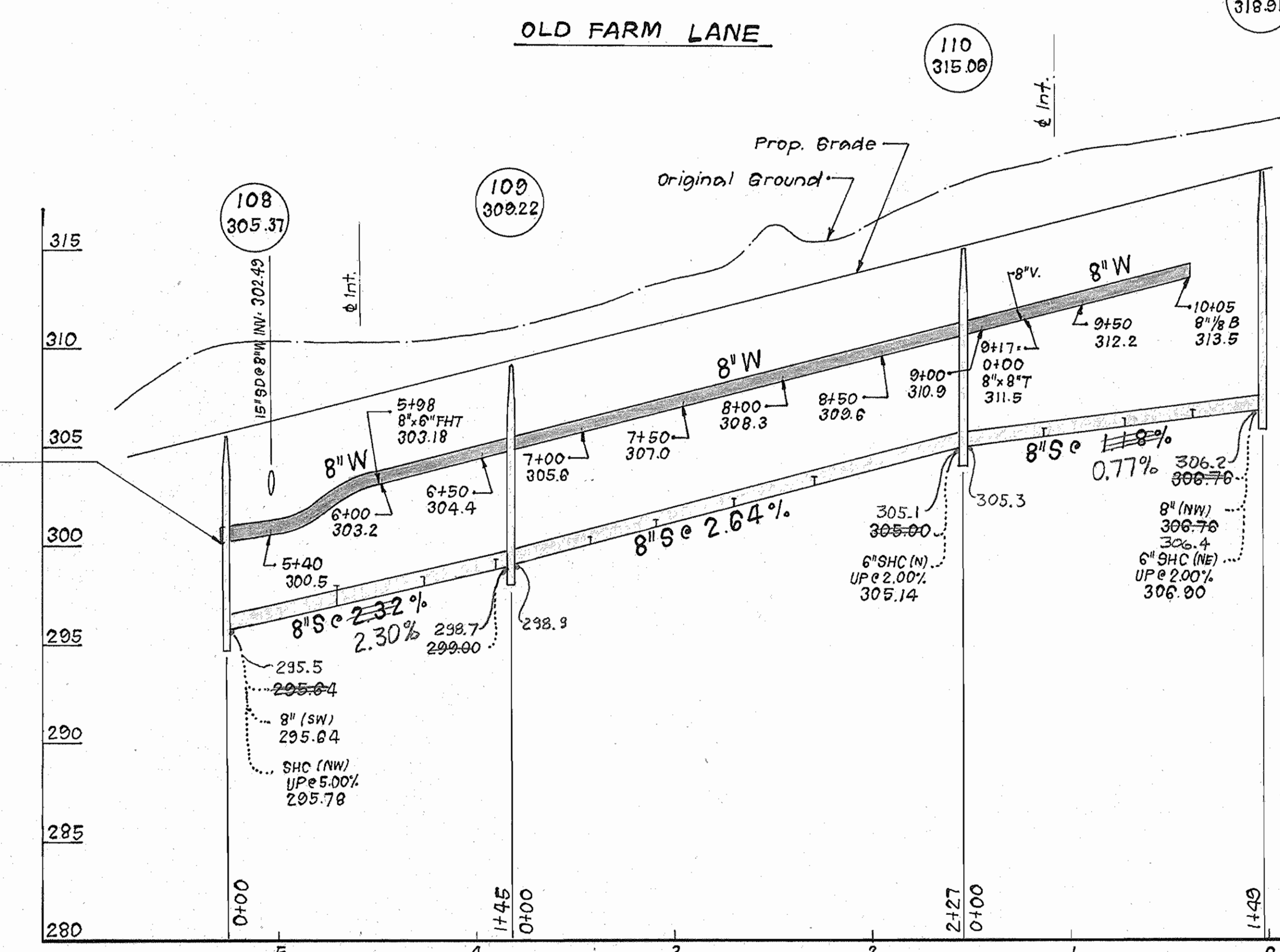
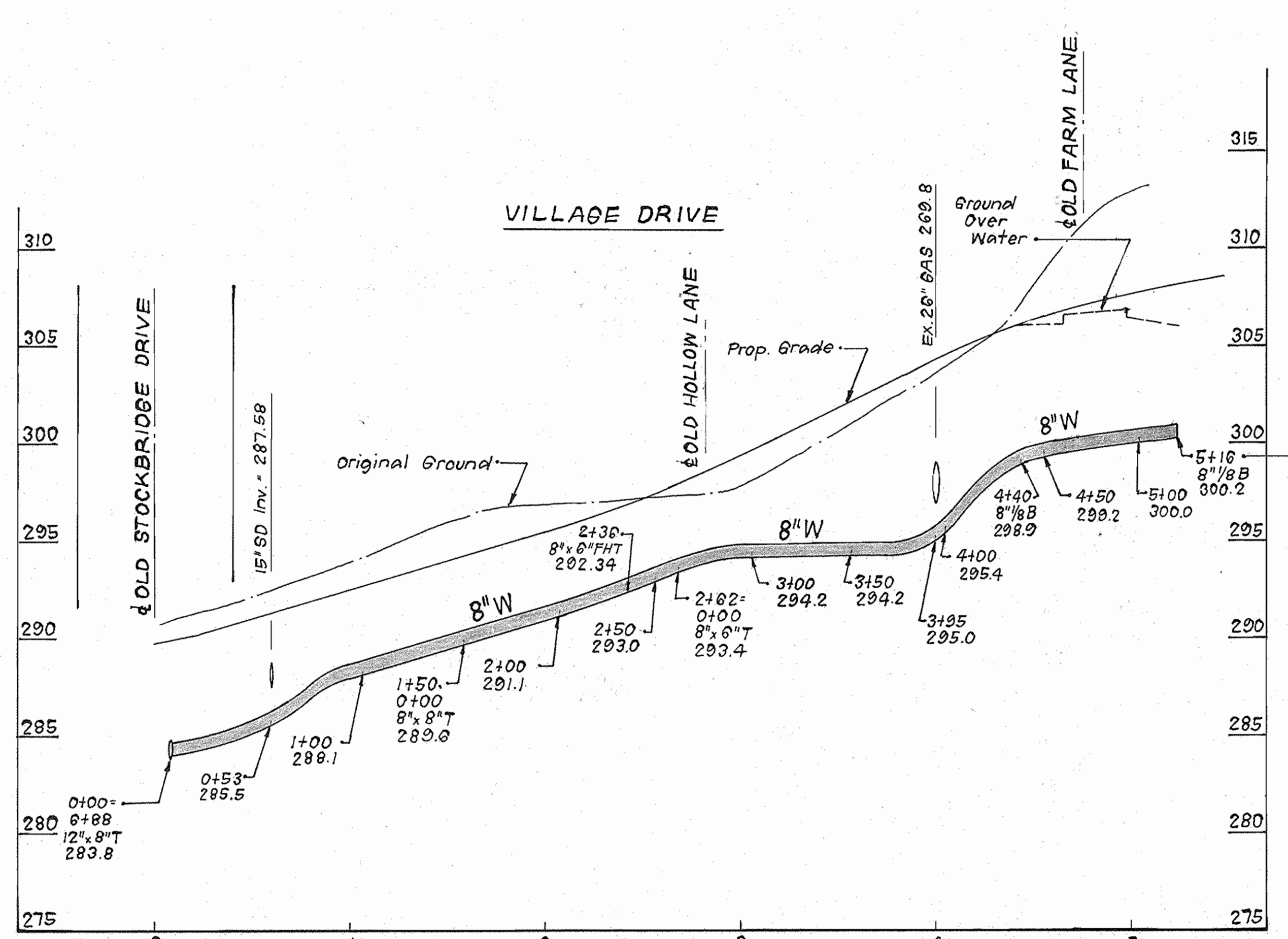
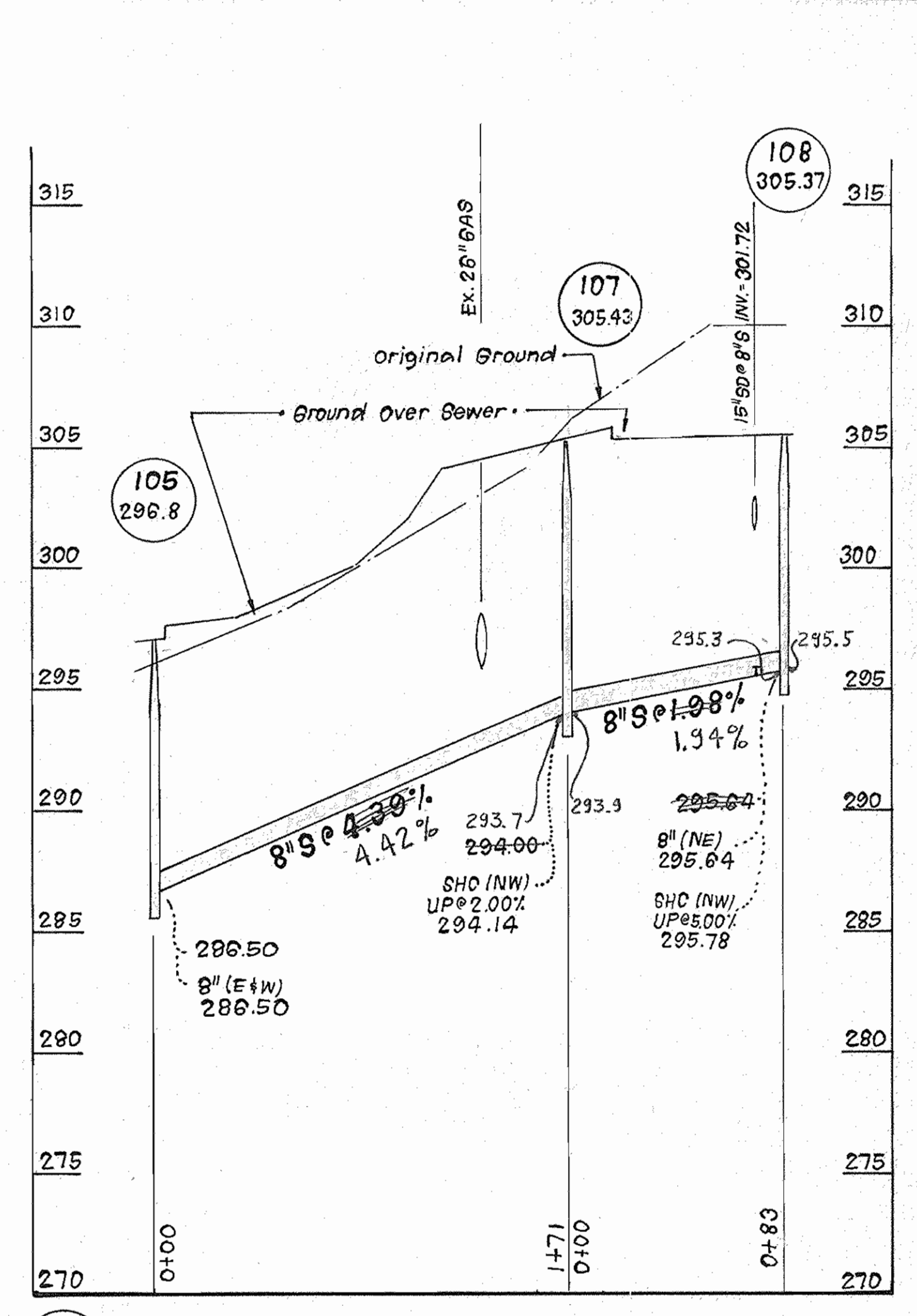
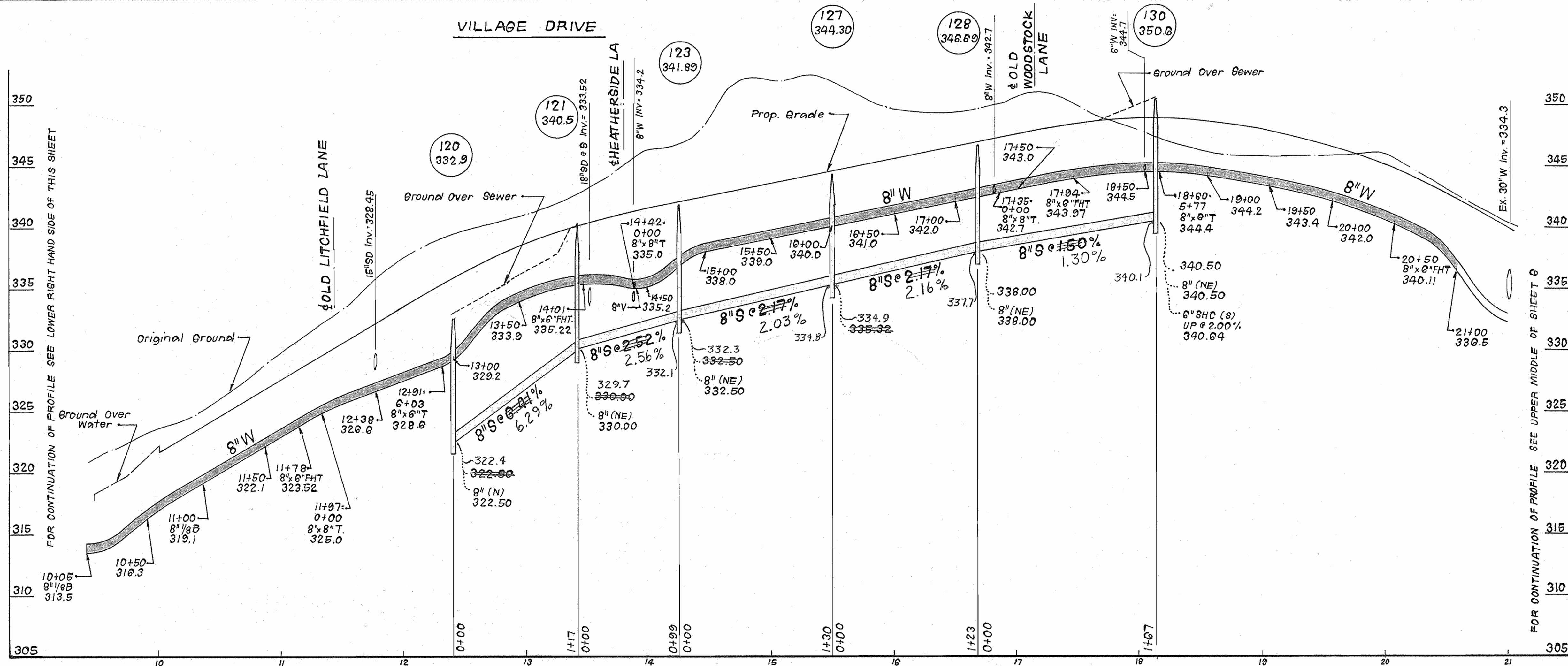
DES: JTR					
DRN: JTR					
CHK: CCM	JTR	2	Revised Section Number & Street Name	10-87	
DATE: 2-10-87	VLM	1	Revised Private Ch./Parcel B Profile	7-10-87	
	BY	NO.	REVISION	DATE	

PROFILES OF
 WATER & SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO.
 AS-BUILT 12-1-87

WOODLAND VILLAGE
 SECTION I, LOTS 1 THRU 138 & PARCELS "A" & "B"
 1ST ELECTION DISTRICT
 CONTRACT NO. 14-1555-D

SCALE
 HORIZ: 1"=50'
 VERT: 1"=5'
 SHEET
 4 OF 6



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 5-25-87
 DATE: 5-25-87

CLARK FINEPROCK & SACKETT
 ENGINEERS, PLANNERS, SURVEYORS
 7135 MINSTREL WAY COLUMBIA, MD. 21045
 (301) 381-7500

DES:	JTR			
DRN:	JTR			
CHK:	CCM	JTR 2	Revised Section Number & Street Names	10-8-87
DATE:	2-10-87	VLM 1	Revised Village Drive Profile	7-10-87
BY:	NO.		REVISION	DATE

PROFILES OF
 WATER & SEWER MAINS
 600' SCALE MAP NO. 37 BLOCK NO.
 AS-BUILT 12-1-87

WOODLAND VILLAGE
 SECTION I, LOTS 1 THRU 138 & PARCELS "A" & "B"
 1ST ELECTION DISTRICT
 CONTRACT NO. 14-1555-D
 SCALE
 HORZ: 1"=50'
 VERT: 1"=5'
 SHEET
 5 OF 6

