

3485 SNOWDEN RIDGE, 1/2 WS/1

FROM	TO	DIST.	FROM	TO	DIST.	
MH 20	LOT 79	26'	MH 26	LOT 104	34'	
"	"	80	"	"	103	57'
"	"	81	"	"	102	66'
"	"	82	"	"	106	24'
"	"	83	"	"	107	28'
"	"	84	"	"	108	36'
"	"	85	"	25	108	18'
"	"	86	"	"	107	24'
"	"	87	"	"	106	37'
"	"	88	"	"	109	22'
"	"	89	"	"	110	25'
"	"	90	"	"	111	50'
"	"	91	"	"	112	66'
"	"	92	"	"	113	87'
"	"	93	"	"	114	96'
"	"	94	"	24	114	22'
"	"	95	"	"	115	24'
"	"	96	"	"	112	44'
"	"	97	"	"	111	56'
"	"	98	"	"	110	83'
"	"	99	"	"	109	92'
"	"	100	"	"	115	35'
"	"	101	"	20	115	60'
"	"	102	"	"	"	"
"	"	103	"	"	"	"
"	"	104	"	"	"	"
"	"	105	"	"	"	"
"	"	106	"	"	"	"
"	"	107	"	"	"	"
"	"	108	"	"	"	"
"	"	109	"	"	"	"
"	"	110	"	"	"	"
"	"	111	"	"	"	"
"	"	112	"	"	"	"
"	"	113	"	"	"	"
"	"	114	"	"	"	"
"	"	115	"	"	"	"

# WATER AND SEWER EXTENSIONS

## SNOWDEN RIDGE

### SECTION 1 AREA 2

#### 6th ELECTION DISTRICT

#### HOWARD COUNTY, MARYLAND

### CONTRACT NO. 24-3485-D

**CONTRACT NO. 24-3485-D**

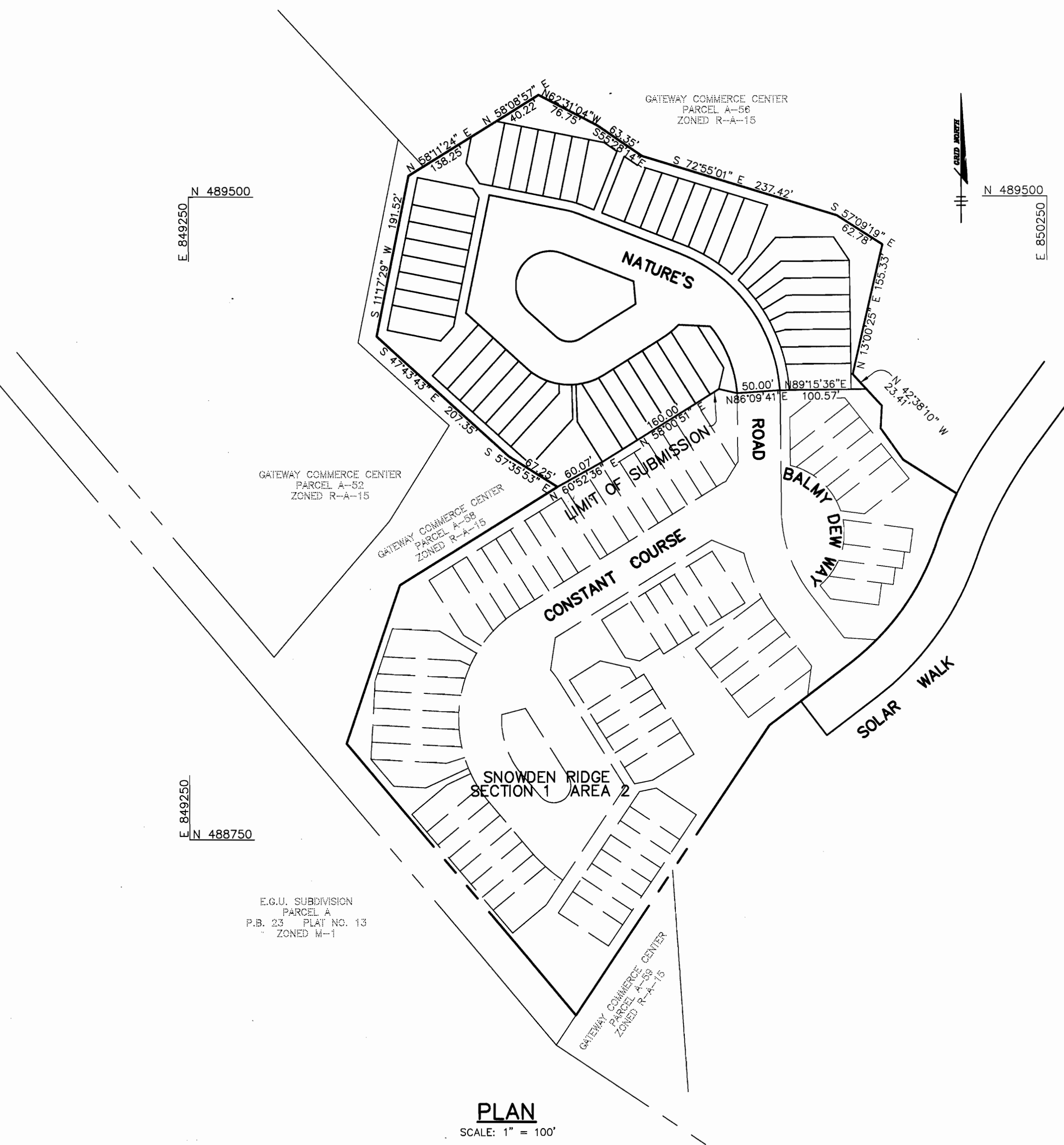
W & S Code	County Use
Water No.	899
Sewer No.	4000000
Test Gradient:	700
Zone:	550

TYPE OF BUILDING:	SINGLE FAMILY ATTACHED
DRAINAGE AREA:	PATUXENT TREATMENT PLANT: LITTLE PATUXENT WTP
NUMBER OF BUILDABLE LOTS:	46
NUMBER OF NON-BUILDABLE LOTS:	3
NUMBER OF W.H.C.:	46
NUMBER OF S.H.C.:	37

**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 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. data.
- All pipe elevations shown  $\odot$  are invert elevations.
- Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- Where test pits have been made on existing utilities, they are noted by the symbol  $\odot$  at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
- Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:  
State Highway Administration 531-5533  
Baltimore Gas & Electric Co. Contractor Services 650-4520  
Baltimore Gas & Electric Co. Underground Damage Control 787-9068  
Miss Utility 1-800-257-7777  
Colonial Pipeline Co. 795-1390  
Bureau of Utilities, Howard County Department of Public Works 313-4900
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs 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. Payment for such removal shall be included in the unit price bid for construction of the main.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops 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.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
- 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 for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers. Standard Detail 05.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- Manholes can be either brick or precast concrete structures.
- Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- The fire hydrant shall be installed as per standard detail W.1.11.
- Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.



ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WATER	815 LF	816 LF	CL 92 D.I.P.	GRIFFIN PIPE
6" WATER	9 LF	8 "	"	"
1 1/2" WHC	285 LF	297 "	"K" SOFT	HOWELL MAINS/BRS
1" WHC	270 LF	293 "	"	"
8" V.C. HD.	6 EA.	4 EA.	M-J	GRIFFIN PIPE
8" V.C. HD.	6 EA.	6 "	"	"
8" SEWER	661 LF	692 LF	SDR-35 PVC	J-M MANUFACTURING
4" SHC	958 LF	1,092 "	"	"
FIRE HYDRANTS	1 EA.	1 EA.	"	MUELLER CO./BRS
8" VALVES	4 EA.	4 "	GATE	"
6" VALVES	1 EA.	1 "	"	"
8" V.C. HD.	1 EA.	1 "	M-J	GRIFFIN PIPE
8" V.C. HD.	1 EA.	1 "	"	"
4" O.D.T.A. PRECAST SEWER MANHOLES	8 EA.	8 "	PRECAST CONC.	ATLANTIC CONC.
SEWER MANHOLES	33.5 VF.	"	"	"
8" V.C. REDUCER	1 EA.	1 EA.	M-J	GRIFFIN PIPE
8" PLUG & BUTTRESS	1 EA.	N/A	N/A	N/A

NAME OF UTILITY CONTRACTOR: **FALLOTON UTILITIES**

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-96-27

Review for Howard Soil Conservation District and meets technical requirements.

*Patricia Engler/jpd* 12/4/95  
NATURAL RESOURCE CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

*John R. Rebuton* 12/4/95  
HOWARD SOIL CONSERVATION DISTRICT DATE

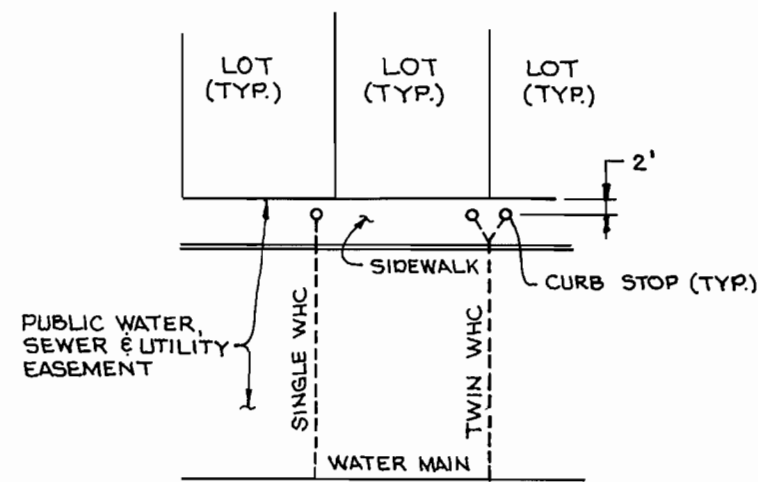
**BENCHMARKS**  
BM#1 X-CUT IN CONCRETE BASE OF TRAFFIC CONTROL ELEV. 368.16  
BM#2 NAIL IN BG&E POLE ELEV. 387.97

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8000 FAX: 410-997-9282 R00/08010600 PER21.DWG	JAYKANT D. PAREKH # 19148	DES: DAM DRN: DAM/BD CHK: CJR DATE: 11-14-99	BY: NO. REVISION DATE	TITLE SHEET	SNOWDEN RIDGE SECTION 1 AREA 2 LOTS 70 THRU 118 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-3485-D	SCALE AS SHOWN SHEET 1 OF 3
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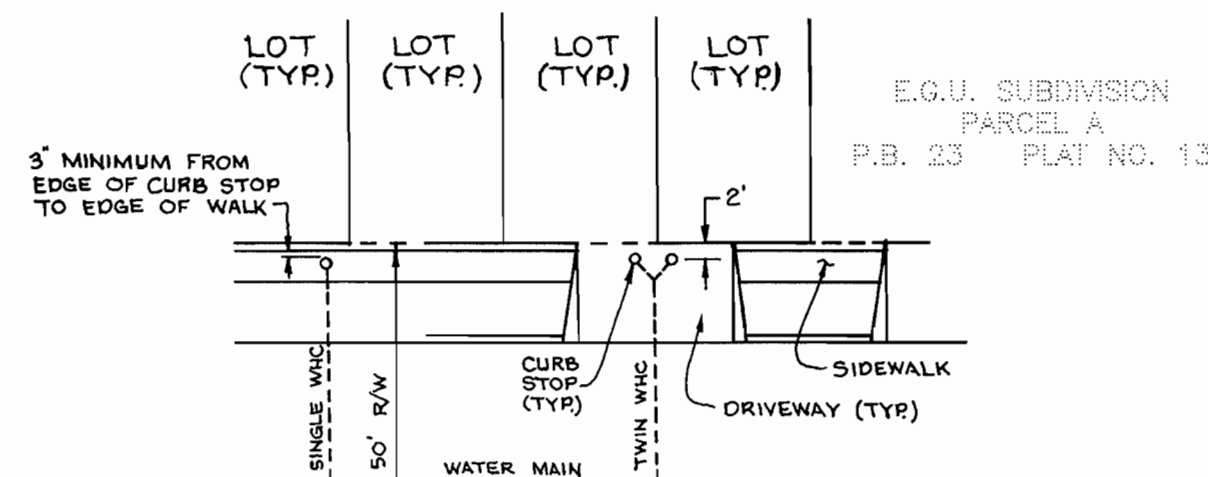
(AS-BUILT) 7-3-97

**MANHOLE SCHEDULE**

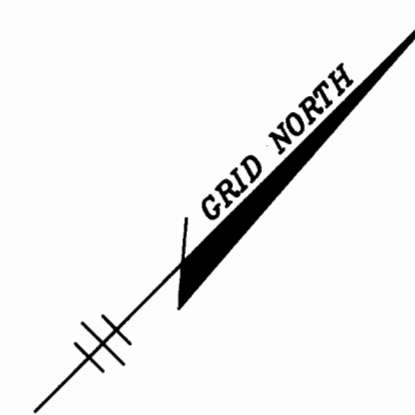
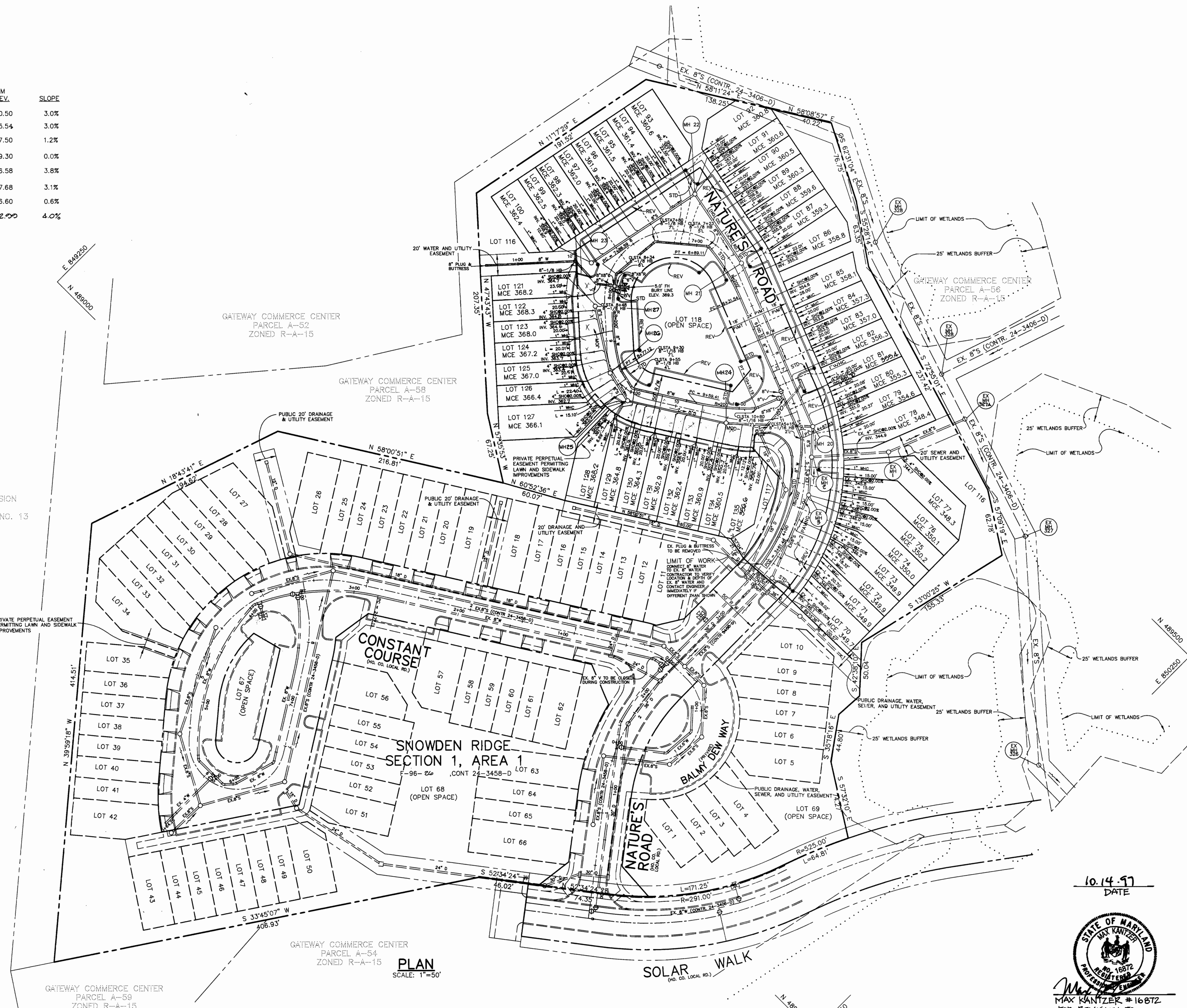
SEWER MANHOLE	LOCATION	RIM ELEV.	SLOPE
20	10.50' RT OF STA. 5+25.05 NATURE'S ROAD	360.50	3.0%
21	7.29' RT OF STA. 6+89.89 NATURE'S ROAD	365.54	3.0%
22	36.82' RT OF STA. 7+46.79 NATURE'S ROAD	367.50	1.2%
23	19.85' RT OF STA. 8+34.09 NATURE'S ROAD	369.30	0.0%
25	8.46' RT OF STA. 9+57.40 NATURE'S ROAD	366.58	3.8%
26	2.62' RT OF STA. 9+29.26 NATURE'S ROAD	367.68	3.1%
27	9.00' RT OF STA. 8+66.80 NATURE'S ROAD	366.60	0.6%
24	5.00' RT OF STA. 10+50.00 NATURE'S ROAD	362.00	4.0%



**DETAIL CURB STOP IN SIDEWALK**  
NO SCALE



**DETAIL CURB STOP IN DRIVEWAY**  
NO SCALE



10.14.97  
DATE

**LEGEND**

- 11/2" W --- 1" W TYP. TWIN WHC
- 1" W --- TYP. SINGLE WHC
- 4" S --- 4" SHC



MAX KANTZER #16872  
FOR REVISION TO  
WATER & SEWER LINES  
AT LOTS 121-125  
ONLY

ws/2 SNOWDEN RIDGE, 1/2 3485

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**RIEMER MUEGGE & ASSOCIATES, INC.**  
Planners • Engineers • Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282  
H000/96310000 P02WS2.DWG



JAYKANT D. PAREKH #19148

DES: DAM					
DRN: DAM/BD					
CHK: CJR					
DATE: 11-14-00	BY NO.	REVISION	DATE		

**PLAN OF WATER SEWER MAINS**

600' SCALE MAP NO. 42 BLOCK NO. 5

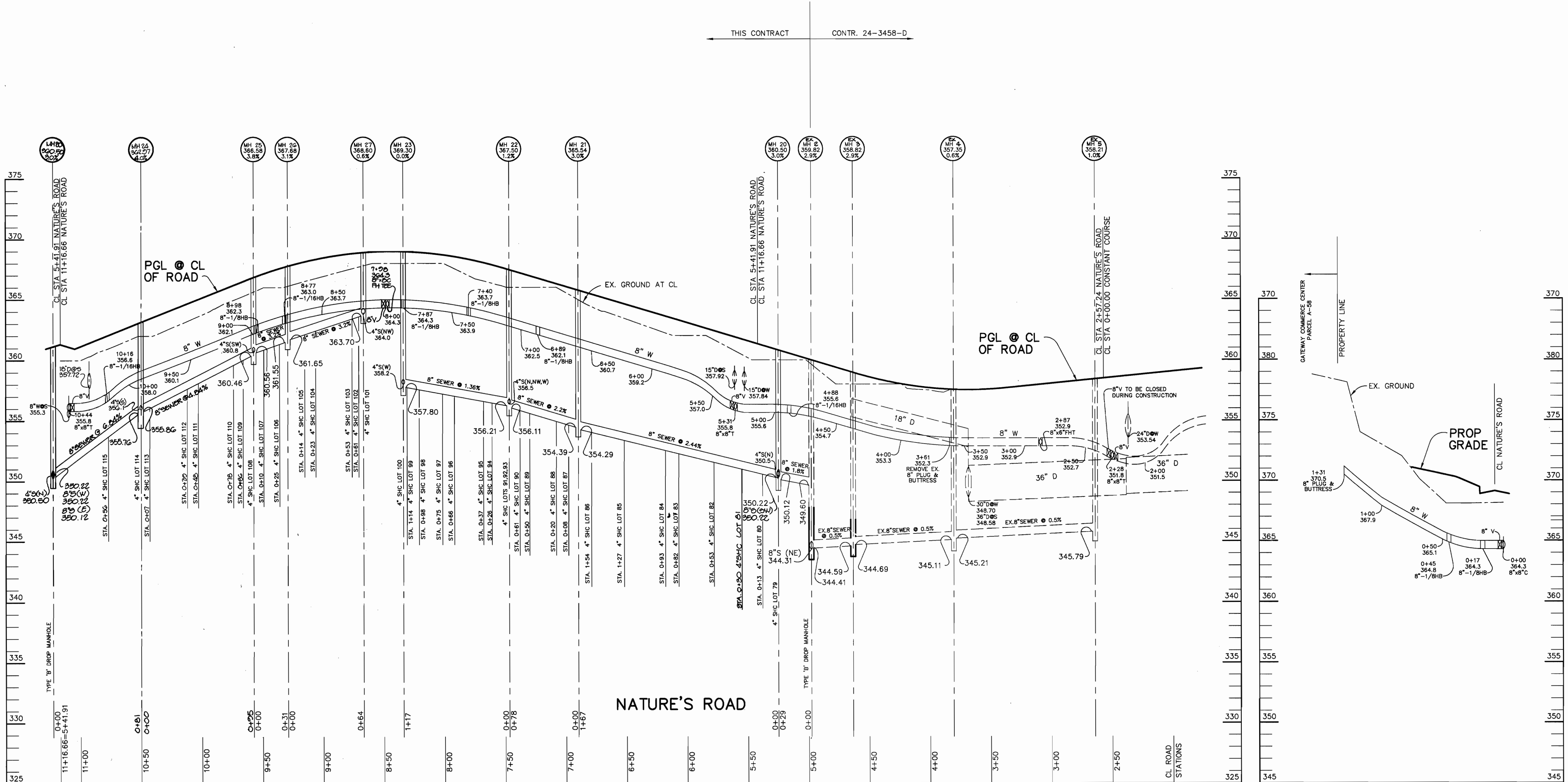
SNOWDEN RIDGE  
SECTION 1 AREA 2  
LOTS 70 THRU 118  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT 24-3485-D

SCALE AS SHOWN  
SHEET 2 OF 3

**(AS-BUILT) 9-3-97**

Water As-Builts

FROM	TO	DIOT
BY MH 4	LOT 70	39'
" " "	" 71	49'
" " "	" 72	58'
" " "	" 73	77'
" " "	" 74	80'
" " 3	" 75	39'
" " "	" 76	31'
" " "	" 77	42'
" " 2	" 78	31'
" " "	" 79	48'
" " "	" 80	40'
MH 20	8" V. STA. 9+33 NATURES RD.	30'
" 24	" " 10+42 " " "	33'
" " "	" " 5+33 " " "	56'
F/H @ STA. 7+98	6" F/H VALVE	4'
" " "	8" V. @ STA. 2+00 NATURES RD	8'
" " "	" " 10+02 BETWEEN 1014 102	10'
MH 23	" " 8+00 NATURES RD	28'
" " "	6" F/H VALVE	31'
" 20	LOT 115	65'
" 24	" 114	73'
" " "	" 115	24'
" " "	" 114	21'
" " "	" 113	29'
" " "	" 112	38'
" " "	" 111	20'
" 25	" 110	33'
" " "	" 111	37'
" " "	" 112	70'
" " "	" 113	75'
" " "	" 109	14'
" " "	" 108	14'
" " "	" 107	40'
" " "	" 106	44'
" " 26	" 105	20'
" " "	" 106	25'
" " "	" 107	30'
" " "	" 108	30'
" " "	" 109	35'
" " 27	" 104	31'
" " "	" 103	27'
" " "	" 102	21'
" " "	" 101	20'
" " "	" 100	74'
" " 28	" 99	64'
" " "	" 99	59'
" " "	" 98	33'
" " "	" 97	35'
" " "	" 96	62'
" " "	" 95	72'
" " "	" 94	104'
" " "	" 93	109'
" " 22	" 92	143'
" " "	" 92	31'
" " "	" 93	21'
" " "	" 94	20'
" " "	" 95	55'
" " "	" 96	59'
" " "	" 97	92'
" " "	" 98	97'
" " "	" 99	25'
" " "	" 99	26'
" " "	" 89	98'
" " "	" 88	53'
" " "	" 87	85'
" " 21	" 86	27'
" " "	" 87	26'
" " "	" 88	42'
" " "	" 89	46'
" " "	" 90	77'
" " "	" 91	82'
" " "	" 92	33'
" " "	" 93	35'
EX. MH 2	" 78	35'
MH 20	" 79	24'
" " "	" 79	24'
" " "	" 80	36'
" " "	" 81	53'
" " "	" 82	72'
" " "	" 83	76'
" " "	" 84	111'
" " "	" 85	115'
" " "	" 85	62'
" " 21	" 85	62'
" " "	" 84	66'
" " "	" 83	100'
" " "	" 82	105'
" " "	" 81	126'
" " "	" 80	149'



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

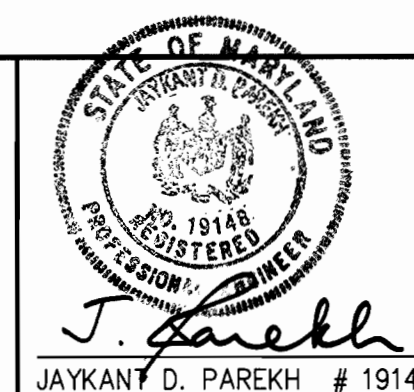
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3485 SNOWDEN RIDGE 1/2 WS/3

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
11-30-95

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
12/6/95

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PROFILES OF WATER AND SEWER MAINS  
600' SCALE MAP NO. 42 BLOCK NO. 5

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