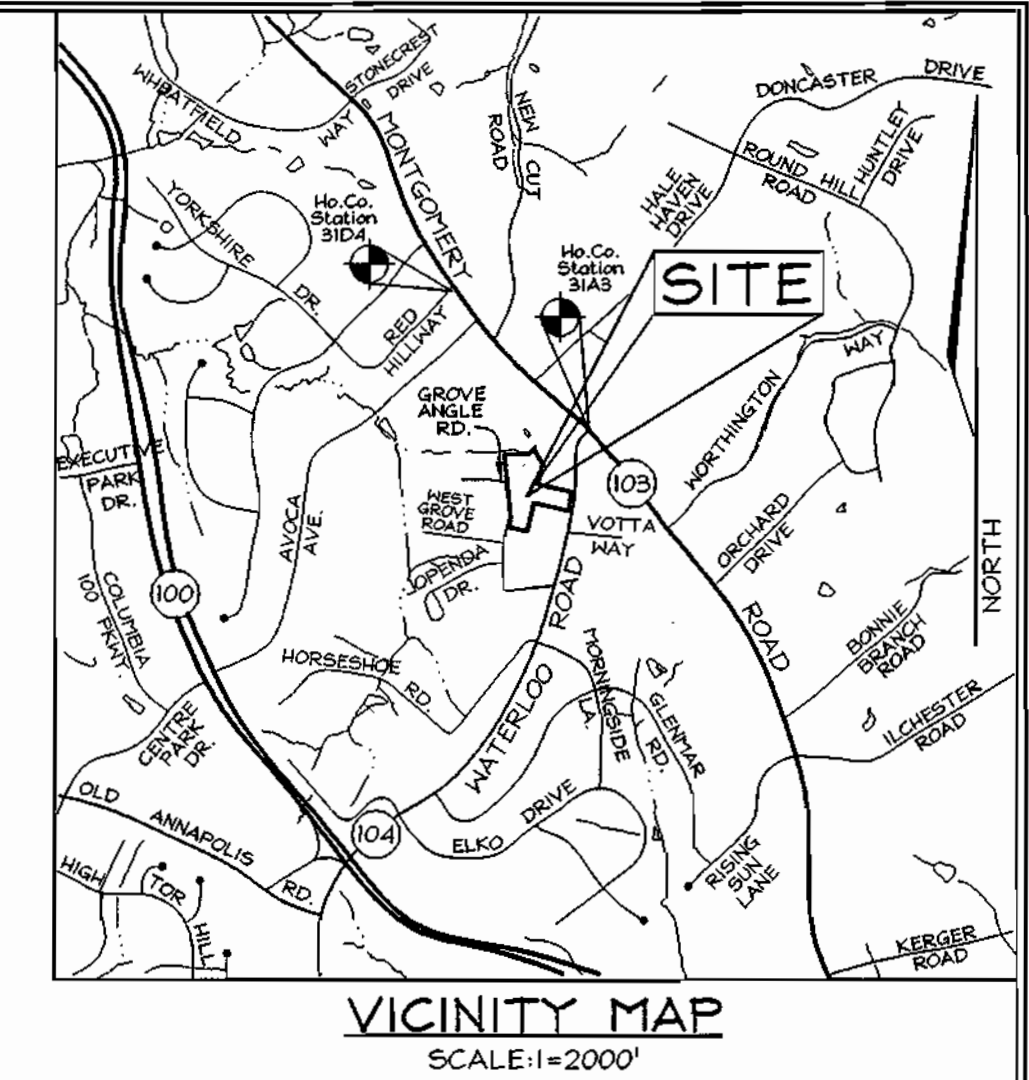


# PUBLIC WATER AND SEWER PLANS

# THE COURTYARDS OF ELLICOTT MILLS

## HOWARD COUNTY, MARYLAND

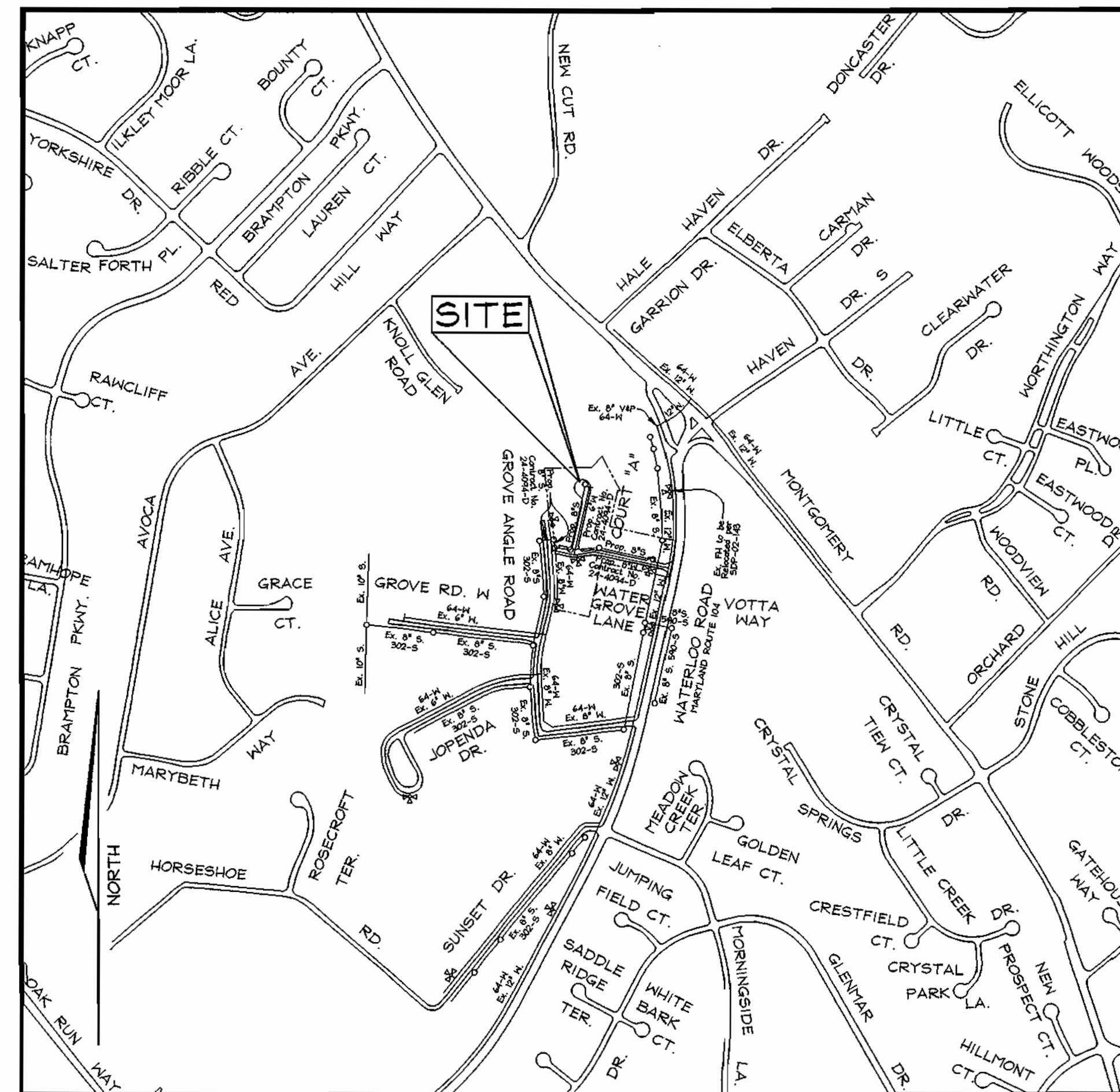
## CONTRACT NO. 24-4094-D



**BENCHMARKS**

Sta. 31A3	N 174,717.1586	E 417,039.6736	El.: 148.6334 (meters)
	N 573,217.877	E 1,368,237.662	El.: 487.641 (feet)
Sta. 31D4	N 174,254.7095	E 417,456.8294	El.: 150.9309 (meters)
	N 571,700.659	E 1,369,606.291	El.: 495.179 (feet)

QUANTITIES				
NAME OF UTILITY CONTRACTOR :				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
MANHOLE	6			
8" SEWER	1,023 LF			
4" SHC	698 LF			
8" WATER	678 LF			
6" WATER	385 LF			
1" WHC	561 LF			
8"x12" T&V	1			
8"x8" T&V	1			
8"x6" TEE	1			
6" CAP & BUTTRESS	1			
FIRE HYDRANT	2			
WATER MAIN DRAIN	1			



**LOCATION MAP**  
SCALE: 1"=600'

**GENERAL NOTES**

**PART I - GENERAL**

- 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 (North American Datum of 1983 (NAD 83/91)).
- All vertical controls are based on U.S.G.S. data (NAVD 88).
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility companies and has made arrangements for bracing of additional poles, any cost incurred by the contractor's work requires the 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 drawing, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Details 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 at the locations of the test pits. 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.
- The Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
 

State Highway Administration	410.531.5533
BGE (Contractor Services)	410.850.4620
BGE (Underground Damage Control)	410.291.4607
Pipes Utility	1.800.257.7777
Colonial Pipeline Company	410.549.4100
Howard County, Dept. of Public Works, Bureau of Utilities	410.313.4900
Howard County Health Department	410.313.2640
Bureau of Utilities	410.313.4900
Verizon	1.800.743.0033 / 410.224.9210
- Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for the construction of the main.
- The contractor shall notify the Bureau of Highways, Howard County, at 410.313.2450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.14(a) of the Howard County Code.

**PART II - WATER**

- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3'-6" 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 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. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and Section 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 settings unless otherwise noted on the plans or in specifications.
- For sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

**PART III - SEWER**

- All sewer mains shall be D.I.P. or 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 K.T. in plan and profile shall have watertight frame & covers, Standard Detail G-5.52. Where watertight manhole frames and covers are 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.
- The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.

**OWNER/DEVELOPER**

The Courtyards of Ellicott Mills, LLC  
c/o Mr. Donald Resauer Jr.  
8000 Main Street  
Ellicott City, Maryland 21043  
410-480-9105

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND WITH SITE DEVELOPMENT PLANS SDP-02-143

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*John P. Roberts*  
SOIL CONSERVATION DISTRICT  
DATE: 1/29/03

*Jim Meyer*  
U.S. SOIL CONSERVATION DISTRICT  
DATE: 1/29/03

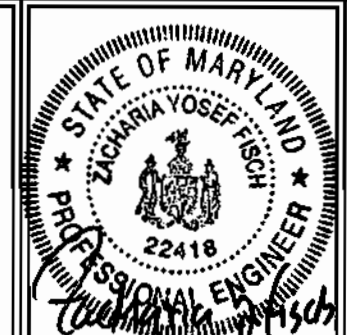
TYPE OF BUILDINGS:	Age Restricted Adult Housing and Community Building
NO. OF HOUSING BUILDINGS:	7
NO. OF HOUSING UNITS:	35
NO. OF COMMUNITY BUILDINGS:	1
NO. OF WATER HOUSE CONNECTIONS:	36
NO. OF SEWER HOUSE CONNECTIONS:	36
DRAINAGE AREA:	Little Patuxent River
TREATMENT PLANT:	Little Patuxent River

WATER & SEWER COUNTY CODE	
WATER CODE:	601
SEWER CODE:	5750677
TEST GRADIENT:	780
WATER ZONE:	630

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Ruth Bunin*  
CHIEF, BUREAU OF UTILITIES  
DATE: 1-24-03

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*John C. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 2/10/03

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street, Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



DESIGN BY: PS  
DRAWN BY: Slim  
CHECKED BY: ZYF  
DATE: Jan. 19, 2003

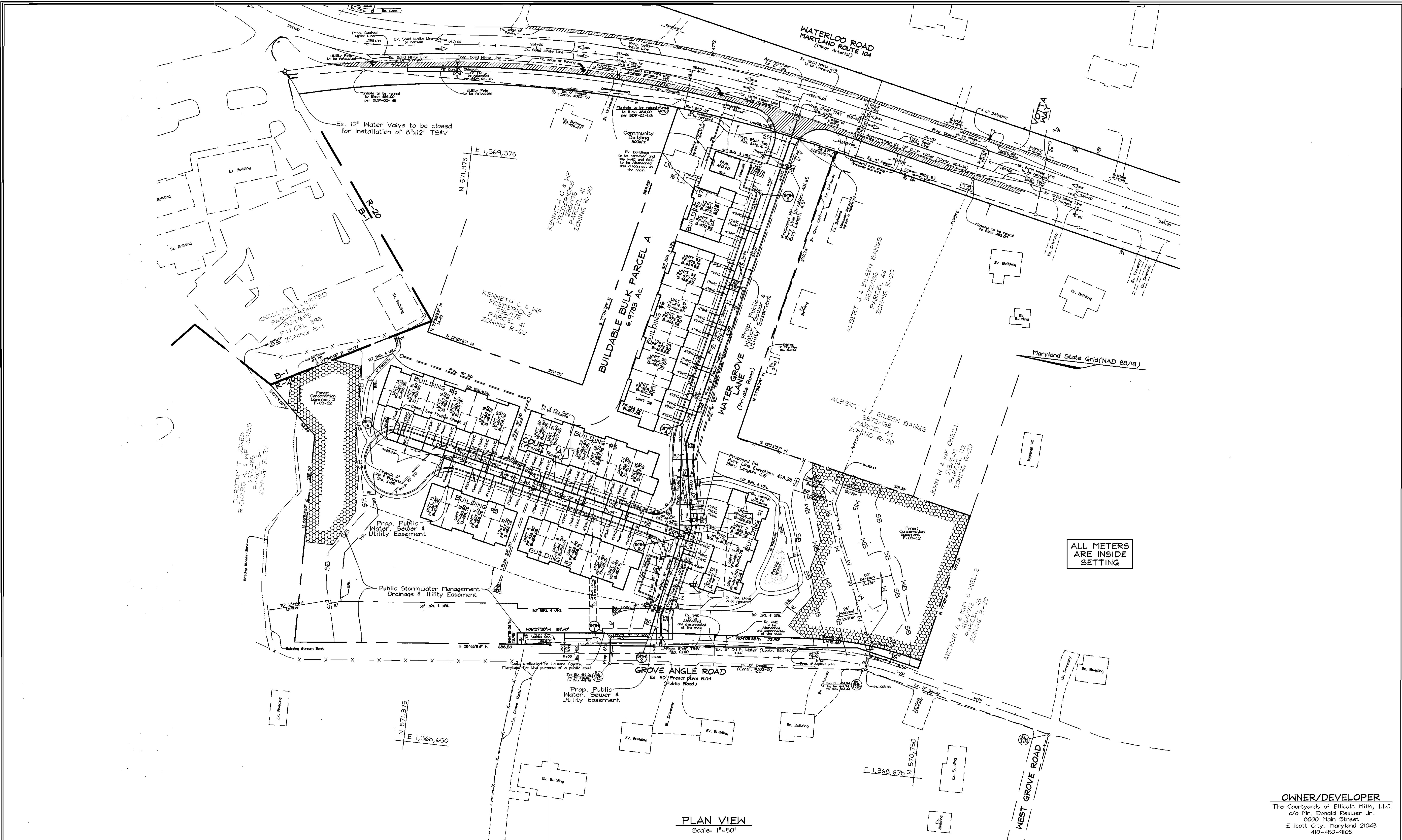
BY	NO.	REVISION	DATE

**WATER AND SEWER PLAN**

600' SCALE MAP NO.: 31 BLOCK NO.: 07

**THE COURTYARDS OF ELLICOTT MILLS**  
AGE RESTRICTED ADULT HOUSING  
UNITS 1 THRU 35 AND COMMUNITY BUILDING  
CONTRACT NO. 24-4094-D  
TAX MAP 31 GRID 07 PARCEL 42 AND 43  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET NO. 1 OF 3



PLAN VIEW  
Scale: 1"=50'

**OWNER/DEVELOPER**  
The Courtyards of Ellicott Mills, LLC  
c/o Mr. Donald Reuser Jr.  
8000 Main Street  
Ellicott City, Maryland 21043  
410-480-9105

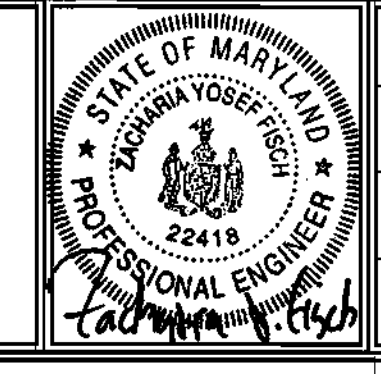
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Richard B...* 1-24-03  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*Michael...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@csa.com



DESIGN BY: PS	BY NO.	REVISION	DATE
DRAWN BY: slim			
CHECKED BY: ZTF			
DATE: Jan. 13, 2003			

**WATER AND SEWER PLAN**

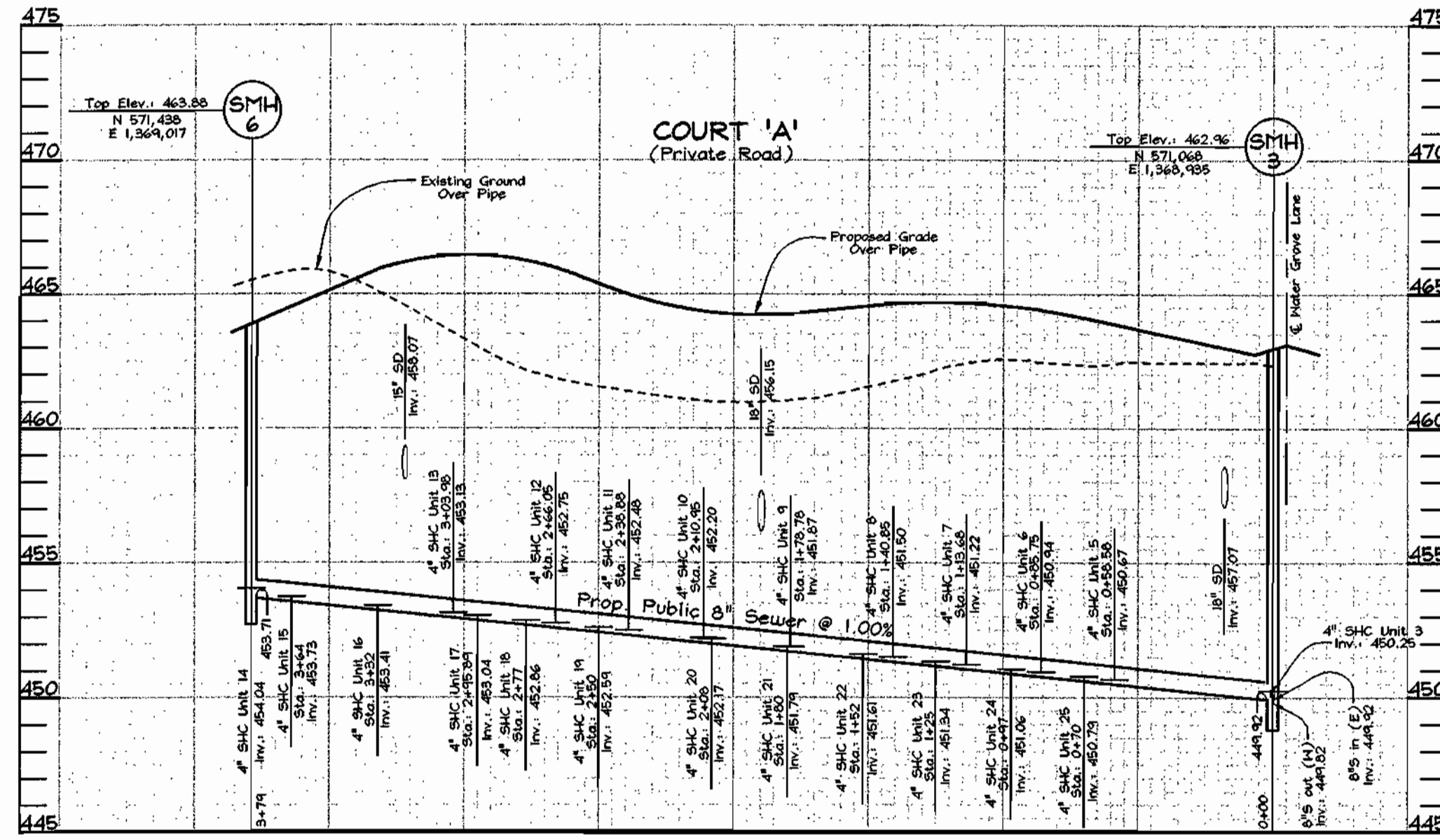
600' SCALE MAP NO.: 31 BLOCK NO.: 07

**THE COURTYARDS OF ELlicOTT MILLS**  
AGE RESTRICTED ADULT HOUSING  
UNITS 1 THRU 35 AND COMMUNITY BUILDING  
CONTRACT NO. 24-4094-D  
TAX MAP 31 GRID 07 PARCEL 42 AND 43  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET NO. 2 OF 3

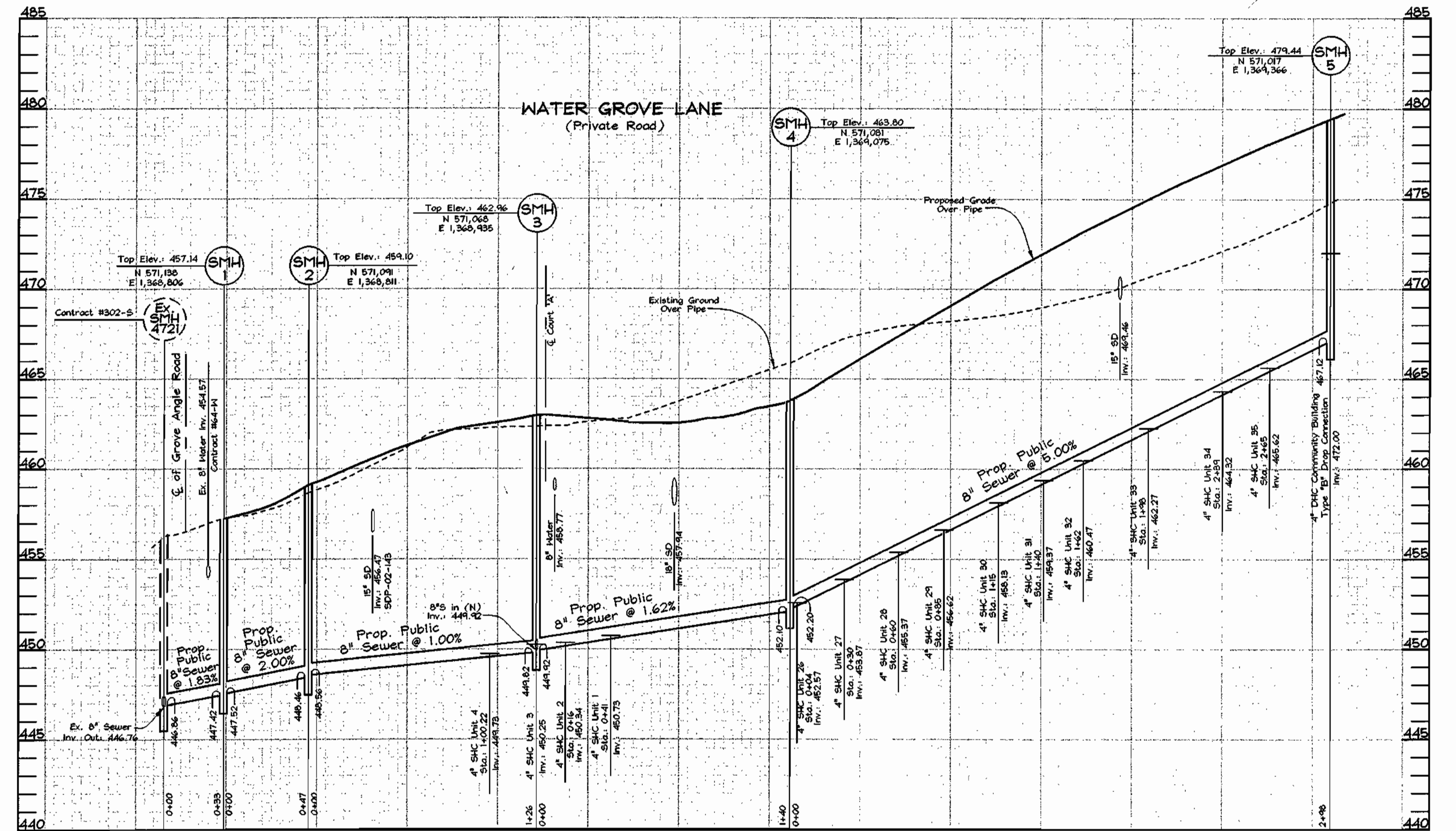
**SEWER HOUSE CONNECTION CHART**

Unit #	Inv. @ Main	Inv. @ Easment	Min. Cellar El.
1	450.73	451.31	454.38
2	450.34	450.95	453.86
3	450.25	450.75	453.63
4	449.73	450.23	453.09
5	450.67	450.97	453.85
6	450.94	451.24	454.12
7	451.22	451.52	454.40
8	451.50	451.80	454.68
9	451.87	452.17	455.05
10	452.20	452.50	455.38
11	452.48	452.78	455.66
12	452.75	453.05	455.93
13	453.13	453.61	456.31
14	454.04	454.55	457.33
15	453.73	454.23	457.07
16	453.41	453.91	456.75
17	453.04	453.54	456.38
18	452.86	453.36	456.20
19	452.59	453.09	455.93
20	452.17	452.67	455.51
21	451.79	452.29	455.13
22	451.61	452.11	454.95
23	451.34	451.84	454.68
24	451.06	451.56	454.40
25	450.79	451.29	454.13
26	452.57	452.83	455.71
27	453.87	454.13	457.01
28	455.37	455.63	458.51
29	456.62	456.88	459.76
30	458.13	458.39	461.27
31	459.37	459.63	462.51
32	460.47	460.73	463.61
33	462.27	462.53	465.41
34	464.32	464.58	467.46
35	465.62	465.88	468.76
Com. Build.	472.00	472.26	475.28



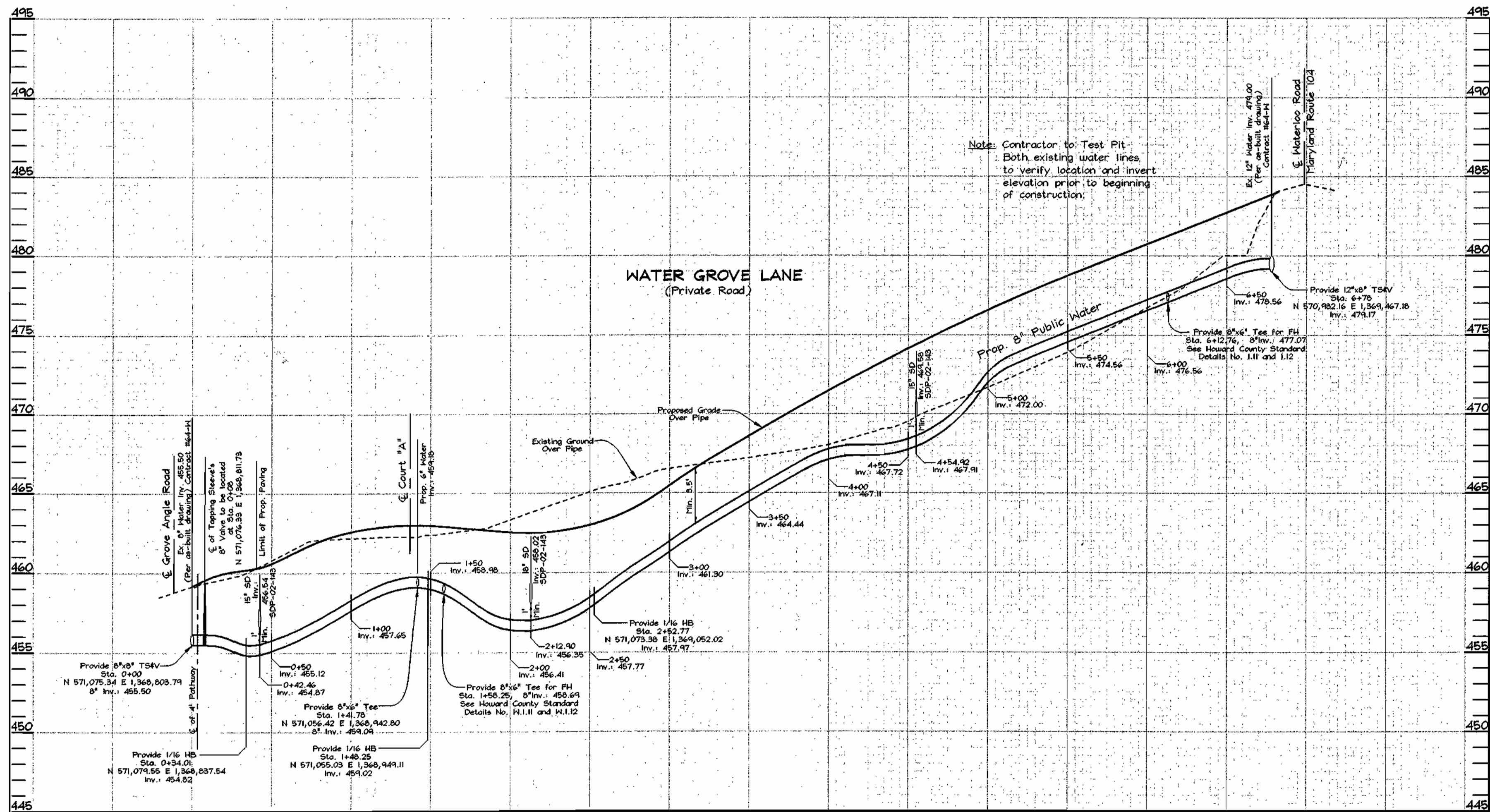
**SEWER PROFILES**

Scale: Horizontal - 1"=50'  
Vertical - 1"=5'



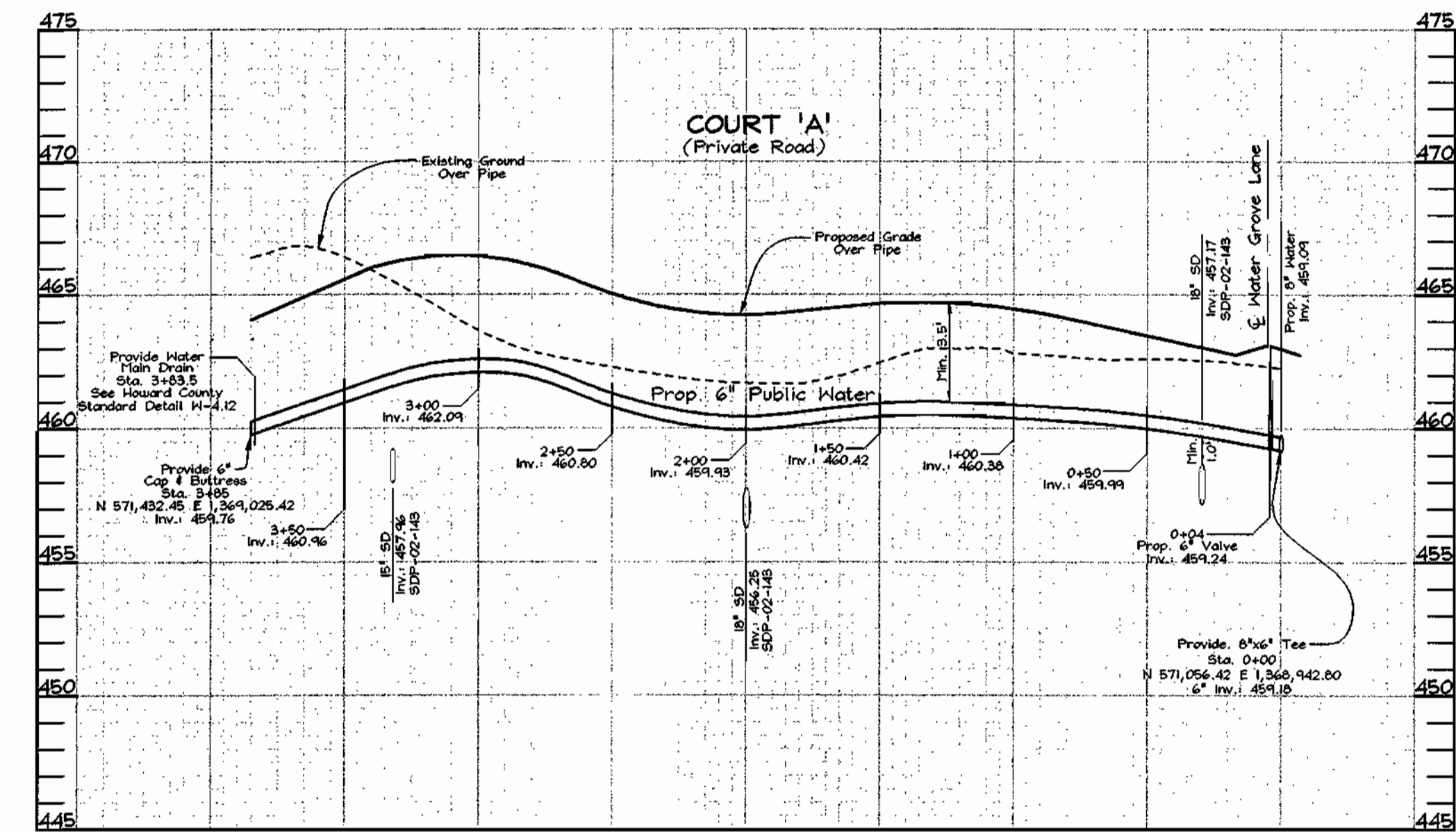
**SEWER PROFILES**

Scale: Horizontal - 1"=50'  
Vertical - 1"=5'



**WATER PROFILES**

Scale: Horizontal - 1"=50'  
Vertical - 1"=5'



**WATER PROFILES**

Scale: Horizontal - 1"=50'  
Vertical - 1"=5'

**OWNER/DEVELOPER**

The Courtyards of Ellicott Mills, LLC  
c/o Mr. Donald Reusser, Jr.  
8000 Main Street  
Ellicott City, Maryland 21043  
410-480-9105

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
R. H. B. 1-24-03  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
[Signature]  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



DESIGN BY: PS  
DRAWN BY: Slim  
CHECKED BY: ZYF  
DATE: Jan 19, 2008

BY NO.	REVISION	DATE

**WATER AND SEWER PROFILES**

600' SCALE MAP NO.: 31 BLOCK NO.: 07

**THE COURTYARDS OF ELlicOTT MILLS**  
AGE RESTRICTED ADULT HOUSING  
UNITS 1 THRU 35 AND COMMUNITY BUILDING  
CONTRACT NO. 24-4094-D  
TAX MAP 31 GRID 07 PARCEL 42 AND 43  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

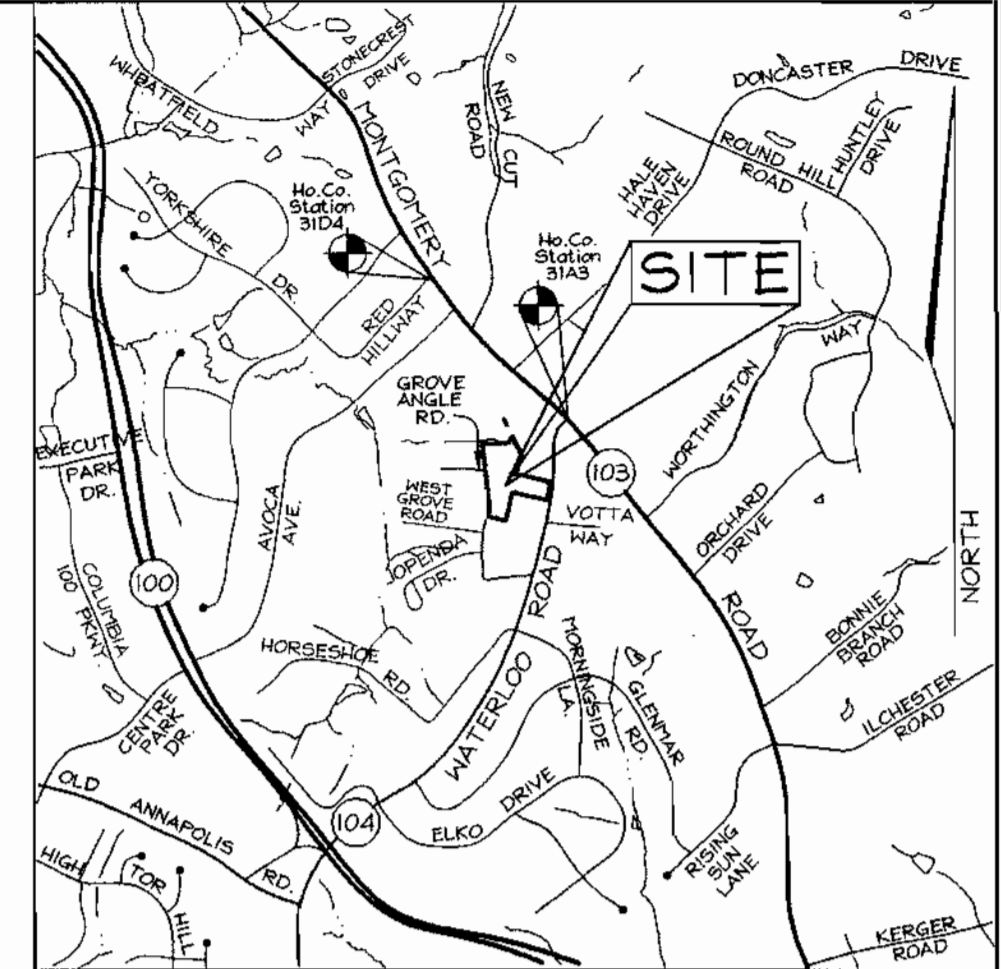
SCALE AS SHOWN  
SHEET NO. 3 OF 3

# PUBLIC WATER AND SEWER PLANS

# THE COURTYARDS OF ELLICOTT MILLS

HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4094-D

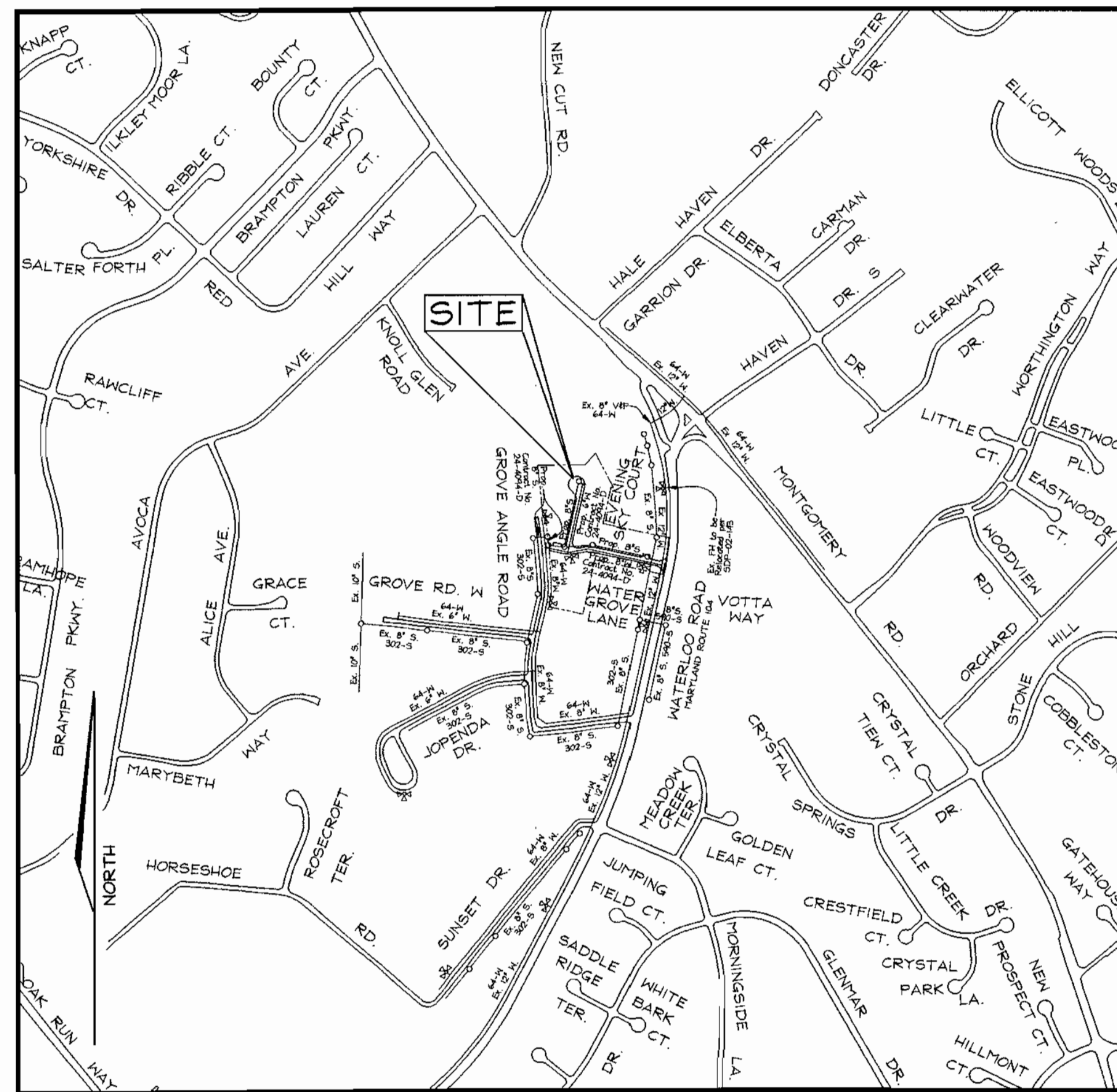


VICINITY MAP  
SCALE: 1"=2000'

### BENCHMARKS

Sta. 31A3	N 174,717.877	E 1,368,237.662	El. 487.641 (feet)
Sta. 31D4	N 174,254.7095	E 417,456.8294	El. 150.9309 (meters)
	N 571,700.659	E 1,369,606.281	El. 495.179 (feet)

QUANTITIES					
NAME OF UTILITY CONTRACTOR : <i>ccs</i>					
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :					
ITEMS	QUANTITIES ESTIMATED	AS-BUILT			
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
MANHOLE	6	6	PRECAST	ATLANTIC	BELAIR ROAD SUPPLY
8" SEWER	1,023 LF	1020	PVC	J.M.	"
4" SHC	698 LF	673	"	"	"
8" WATER	678 LF	678	DIP	GRIFFIN	"
6" WATER	385 LF	394	"	"	"
1" W/C	561 LF	750	K COPPER	READING	"
8"X12" TSKV	1	1EA	STAINLESS	J.M.	"
8"X8" TSKV	1	1EA	SLEEVE STAINLESS	"	"
8"X6" TEE	1	1EA	DIP	"	"
6" CAP & BUTTRESS	1	1EA	"	"	"
FIRE HYDRANT	2	2EA	S.N.F.H.	MOELLER	"
WATER MAIN DRAIN	1	1EA	"	FORD	"



LOCATION MAP  
SCALE: 1"=600'

### GENERAL NOTES

#### PART I - GENERAL

- 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 (NAVD 88).
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 bracing by the owner for the 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 drawing, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Details 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  $\square$  at the locations of the test pits. 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.
- The Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:

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BGE (Contractor Services)	410.850.4620
BGE (Underground Damage Control)	410.291.4607
Piscataway Utility	1.800.257.7777
Colonial Pipeline Company	410.549.4120
Howard County, Dept. of Public Works, Bureau of Utilities	410.313.4900
Howard County Health Department	410.313.2640
Bureau of Utilities	410.313.4900
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- Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for the construction of the main.
- The contractor shall notify the Bureau of Highways, Howard County, at 410.313.2450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPM requirements per Section 18.114(a) of the Howard County Code.

#### PART II - WATER

- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3'-6" 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 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. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and Section 1005 of the Standard Specifications.
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- For sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

#### PART III - SEWER

- All sewer mains shall be D.I.P. or 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 & covers, Standard Detail G-5.52. Where watertight manhole frames and covers are used, set top of frame 1'-0" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.

#### OWNER/DEVELOPER

The Courtyards of Ellicott Mills, LLC  
c/o Mr. Donald Resauer Jr.  
8000 Main Street  
Ellicott City, Maryland 21043  
410-480-9105

These original water and sewer construction plans mylar sheets 1 thru 3 supersede the original mylar plan sheets 1 thru 3 approved and signed by the Chief Land Development Engineering Department Planning and Zoning on 2/12/03.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND WITH SITE DEVELOPMENT PLANS SDP-02-143

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*John P. Resauer*  
SOIL CONSERVATION DISTRICT

12/17/03  
DATE

*Jim Meyer*  
U.S. SOIL CONSERVATION DISTRICT

12/17/03  
DATE

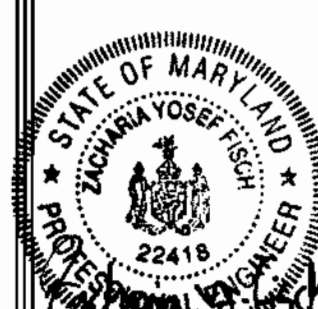
TYPE OF BUILDINGS:	Age Restricted Adult Housing and Community Building
NO. OF HOUSING BUILDINGS:	7
NO. OF HOUSING UNITS:	35
NO. OF COMMUNITY BUILDINGS:	1
NO. OF WATER HOUSE CONNECTIONS:	36
NO. OF SEWER HOUSE CONNECTIONS:	36
DRAINAGE AREA:	Little Patuxent River
TREATMENT PLANT:	Little Patuxent River

WATER & SEWER COUNTY CODE	
WATER CODE:	601
SEWER CODE:	5750677
TEST GRADIENT:	780
WATER ZONE:	630

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*John P. Resauer*  
CHIEF, BUREAU OF UTILITIES  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*John P. Resauer*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



DESIGN BY: PS			
DRAWN BY: Slim			
CHECKED BY: ZYF			
DATE: Jan. 19, 2003			
BY NO.	1	ASBUILT DATA SHOWING ON PLAN	04/11/03
REVISION			

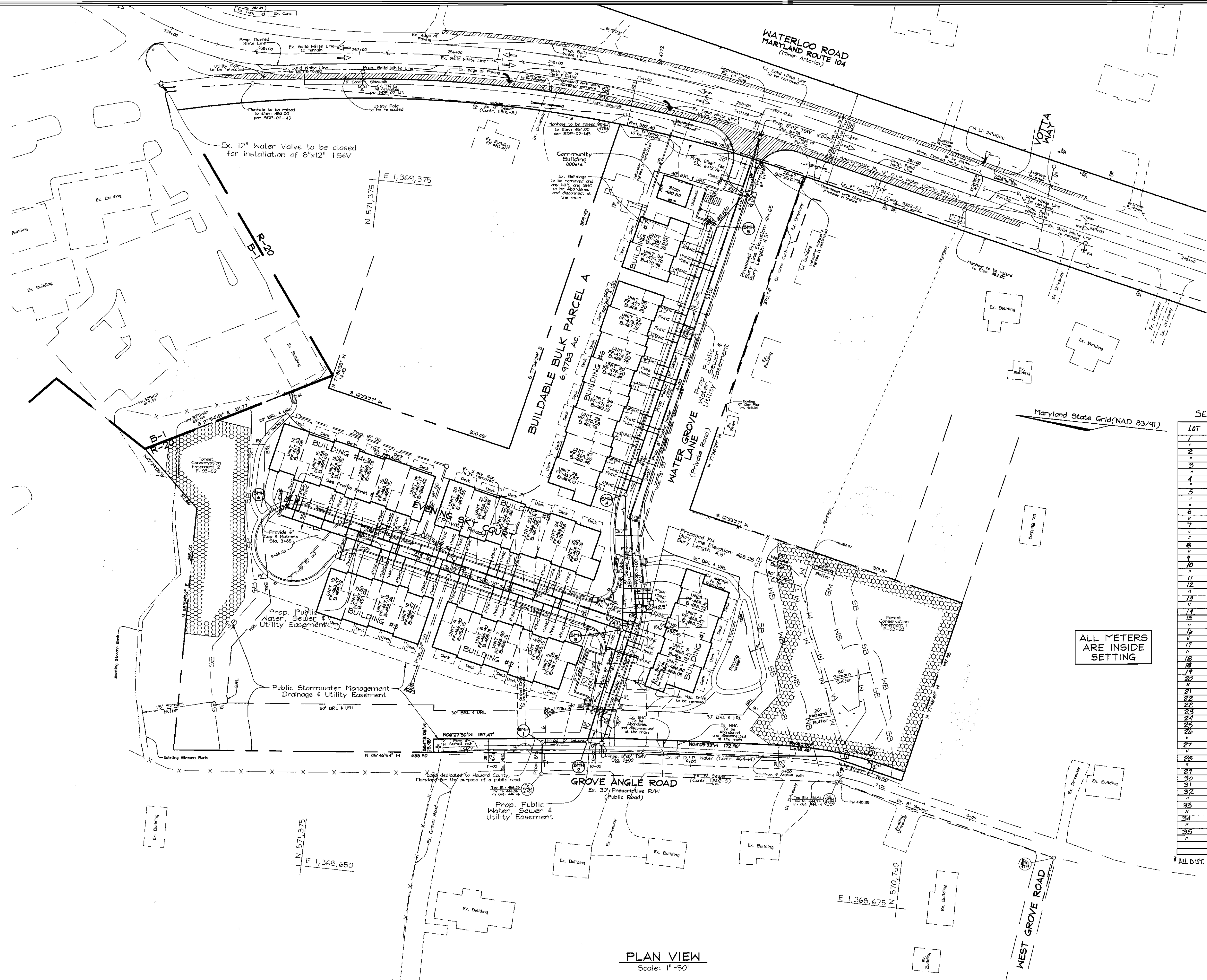
WATER AND SEWER  
PLAN

600' SCALE MAP NO.: 31 BLOCK NO.: 07

**THE COURTYARDS OF ELLICOTT MILLS**  
AGE RESTRICTED ADULT HOUSING  
UNITS 1 THRU 35 AND COMMUNITY BUILDING  
CONTRACT NO. 24-4094-D  
TAX MAP 31 GRID 07 PARCEL 42 AND 43  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET NO. 1 OF 3

NEW PLAN - SUBSTITUTE PREVIOUS SHEETS (3)  
APPROVED ON 2/12/03



**SEWER AS-BUILT DATA**

LOT	TO	DIST.
1	I-1	40
1	SMH 3	50
2	I-1	53
2	SMH 3	35
3	I-1	57
3	SMH 3	30
4	I-1	108
4	SMH 3	35
5	SMH 3	44
5	SHC 25	44
6	SHC 6	26
6	SMH 3	27
7	SHC 24	41
7	I-7	77
7	SMH 3	44
8	SHC 8	23
8	I-7	34
9	I-7	13
10	SMH 11	12
11	I-7	21
11	M-2	50
12	M-2	57
12	SHC 13	13
13	M-2	38
13	I-11	65
14	M-2	71
15	SMH 4	22.5
16	M-2	23
16	SMH 4	53
17	M-2	20
17	SMH 4	20
18	I-8	40
18	SHC 19	22
19	I-8	45
20	SHC 21	28
21	I-8	12
22	M-2	36
22	SHC 23	28
23	I-8	64
24	SMH 3	74
24	SMH 4	14
25	SMH 4	23
27	SMH 4	23
27	SMH 4	23
28	SMH 4	23
28	SMH 4	60
29	SMH 4	60
30	I-6	68.5
31	I-6	73.5
31	I-6	52.0
32	I-6	16.5
32	SHC 33	33
33	I-6	20.5
34	I-6	38
34	SMH 5	59
35	I-6	59
35	SMH 5	37

**WATER AS-BUILT DATA**

LOT	TO	DIST.
1	W-1	15
2	W-1	20
2	W-1	7.5
3	W-1	20
3	W-1	25
3	SMH 3	27
4	W-1	28.5
4	SMH 3	28.5
5	W-1	15
5	SMH 3	45
6	W-1	77
6	W-1	45
7	W-1	45
7	W-1	45
8	W-1	62
8	W-1	45.5
9	W-1	47
10	W-1	17
11	W-1	45
11	W-1	64
12	W-1	74
13	W-1	67.5
13	W-1	37
14	W-1	67
14	SMH 4	28
15	W-1	55
15	SMH 4	33.5
16	W-1	40
16	SMH 4	64
17	W-1	15.5
17	SMH 4	15.5
18	W-1	14
18	W-1	50
19	W-1	50
19	W-1	50
20	W-1	31.5
20	W-1	13.5
21	W-1	13.5
22	W-1	39
23	W-1	63
24	W-1	43.5
24	SMH 3	43.5
25	W-1	18
26	W-1	5.5
27	W-1	22.5
28	W-1	22.5
29	W-1	5.5
29	SMH 4	75
30	W-1	60
30	W-1	65
31	W-1	54
31	W-1	62
32	W-1	11.5
33	W-1	13
34	W-1	47.5
34	SMH 5	47.5
35	W-1	4
35	SMH 5	4

† ALL DIST. FROM SHC.      † ALL DIST. FROM W-1C.

**PLAN VIEW**  
Scale: 1"=50'

**OWNER/DEVELOPER**  
The Courtyards of Ellicott Mills, LLC  
c/o Mr. Donald Reuser Jr.  
8000 Main Street  
Ellicott City, Maryland 21043  
410-480-9105

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*RLH*  
CHIEF, BUREAU OF UTILITIES

2-1-03  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*Michael...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

12/22/03  
DATE

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street, Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



DESIGN BY: PS	
DRAWN BY: Slim	
CHECKED BY: ZYF	
DATE: Jan. 19, 2003	
K.C.T. 1	AS-BUILT DATA SHOWN ON PLAN
BY NO.	REVISION
	DATE

**WATER AND SEWER PLAN**

600' SCALE MAP NO.: 31 BLOCK NO.: 07

**THE COURTYARDS OF ELlicOTT MILLS**  
AGE RESTRICTED ADULT HOUSING  
UNITS 1 THRU 35 AND COMMUNITY BUILDING  
CONTRACT NO. 24-4094-D

TAX MAP 31 GRID 07 PARCEL 42 AND 43  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

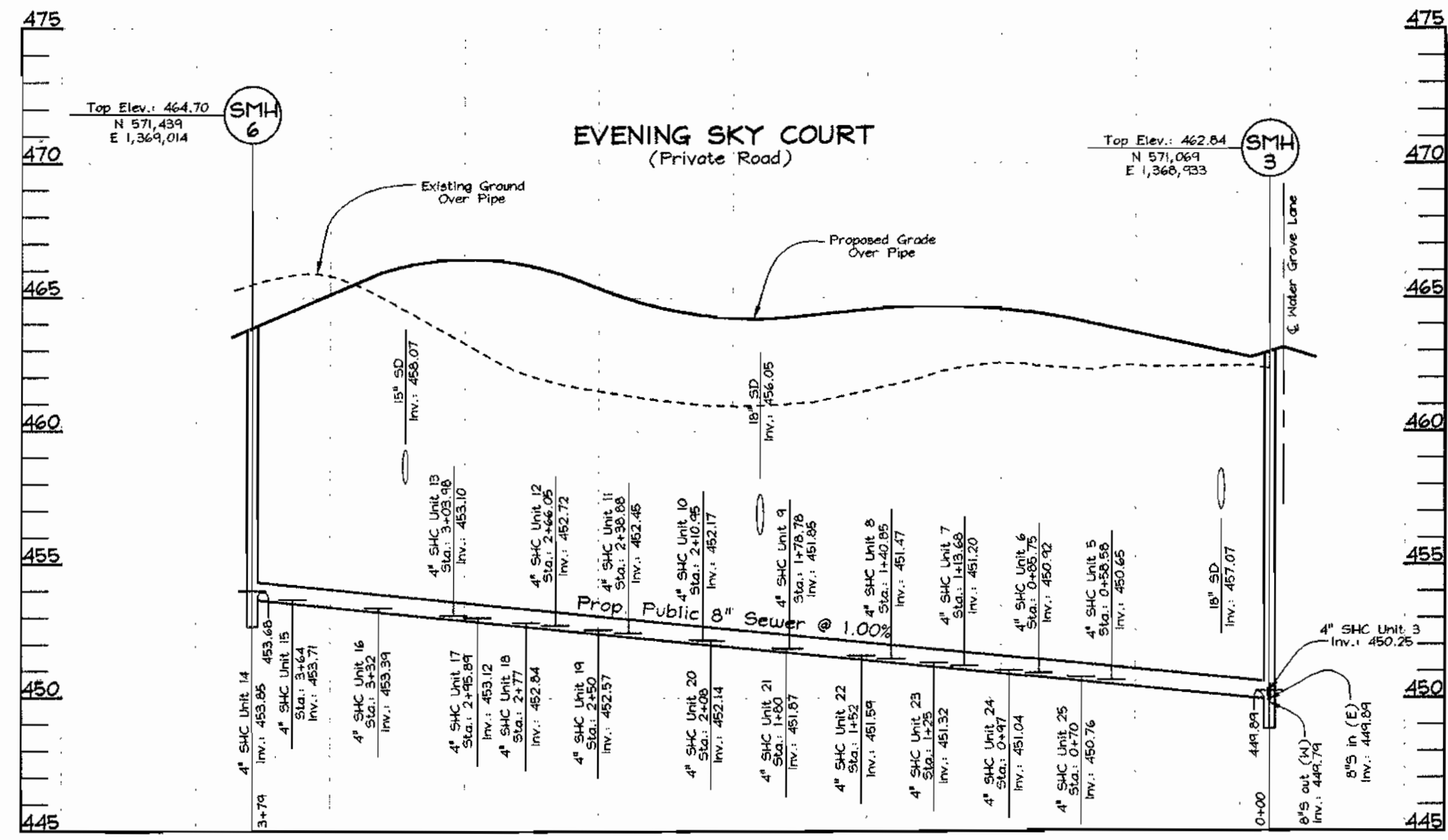
NEW PLAN - SUBSTITUTE PREVIOUS SHEETS

SCALE AS SHOWN

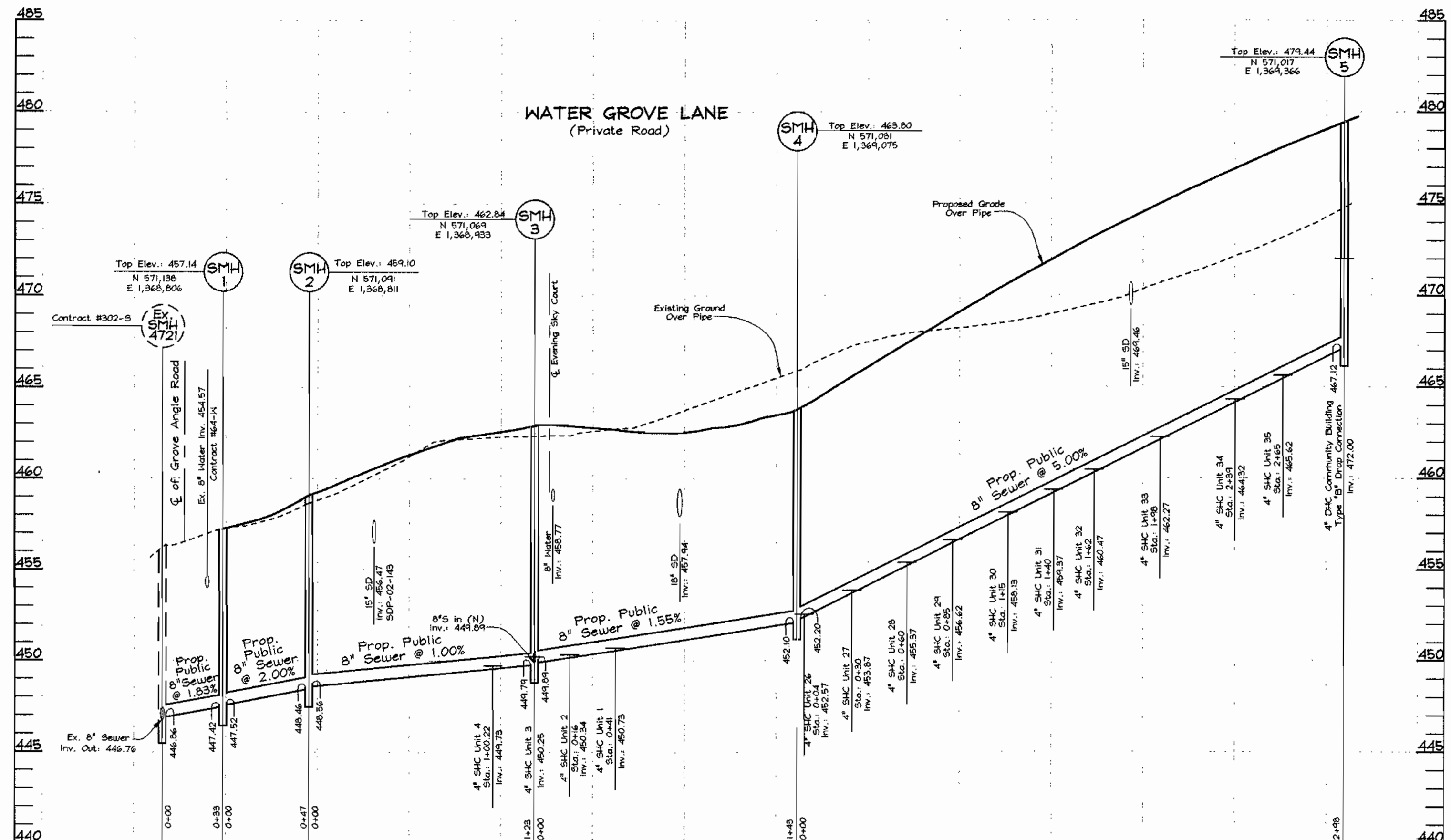
SHEET NO. 2 OF 3

**SEWER HOUSE CONNECTION CHART**

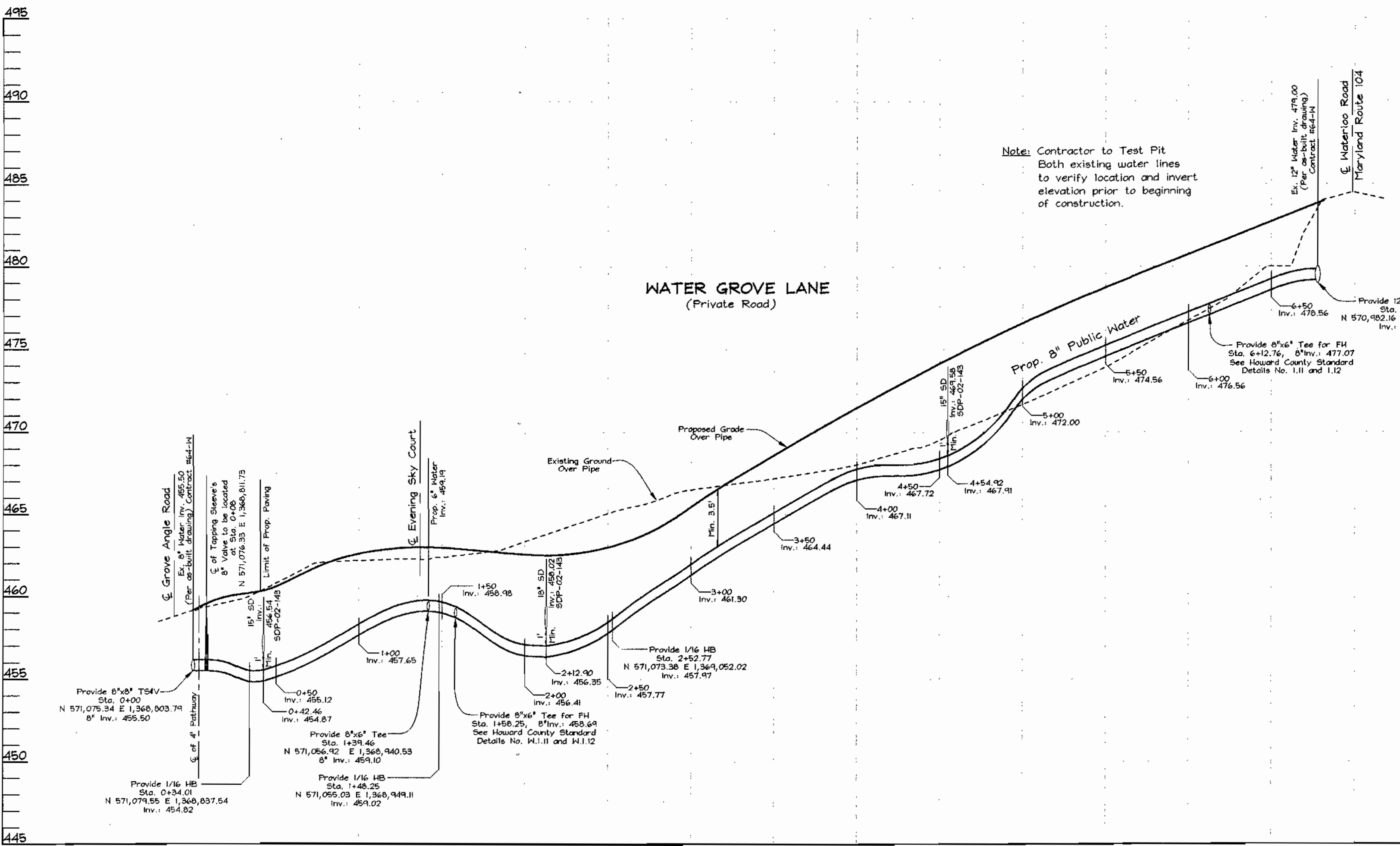
Unit #	Inv. @ Main	Inv. @ Easement	Min. Cellar El.
1	450.73	451.31	455.45
2	450.34	450.95	454.86
3	450.25	450.75	454.67
4	449.73	450.23	454.09
5	450.65	450.95	454.79
6	450.92	451.22	455.10
7	451.20	451.50	455.34
8	451.47	451.77	455.65
9	451.85	452.15	455.95
10	452.17	452.47	456.35
11	452.45	452.75	456.59
12	452.72	453.02	456.90
13	453.10	453.58	457.32
14	453.85	454.36	458.25
15	453.71	454.21	458.05
16	453.39	453.89	457.77
17	453.12	453.62	457.46
18	452.84	453.34	457.22
19	452.57	453.07	456.91
20	452.14	452.64	456.52
21	451.87	452.37	456.21
22	451.59	452.09	455.97
23	451.32	451.82	455.66
24	451.04	451.54	455.42
25	450.76	451.26	455.10
26	452.57	452.83	456.72
27	453.87	454.13	457.98
28	455.37	455.63	459.52
29	456.62	456.88	460.73
30	458.13	458.39	462.28
31	459.37	459.63	463.48
32	460.47	460.73	464.62
33	462.27	462.53	466.38
34	464.32	464.58	468.46
35	465.62	465.88	469.73
Com. Build.	472.00	472.26	476.28



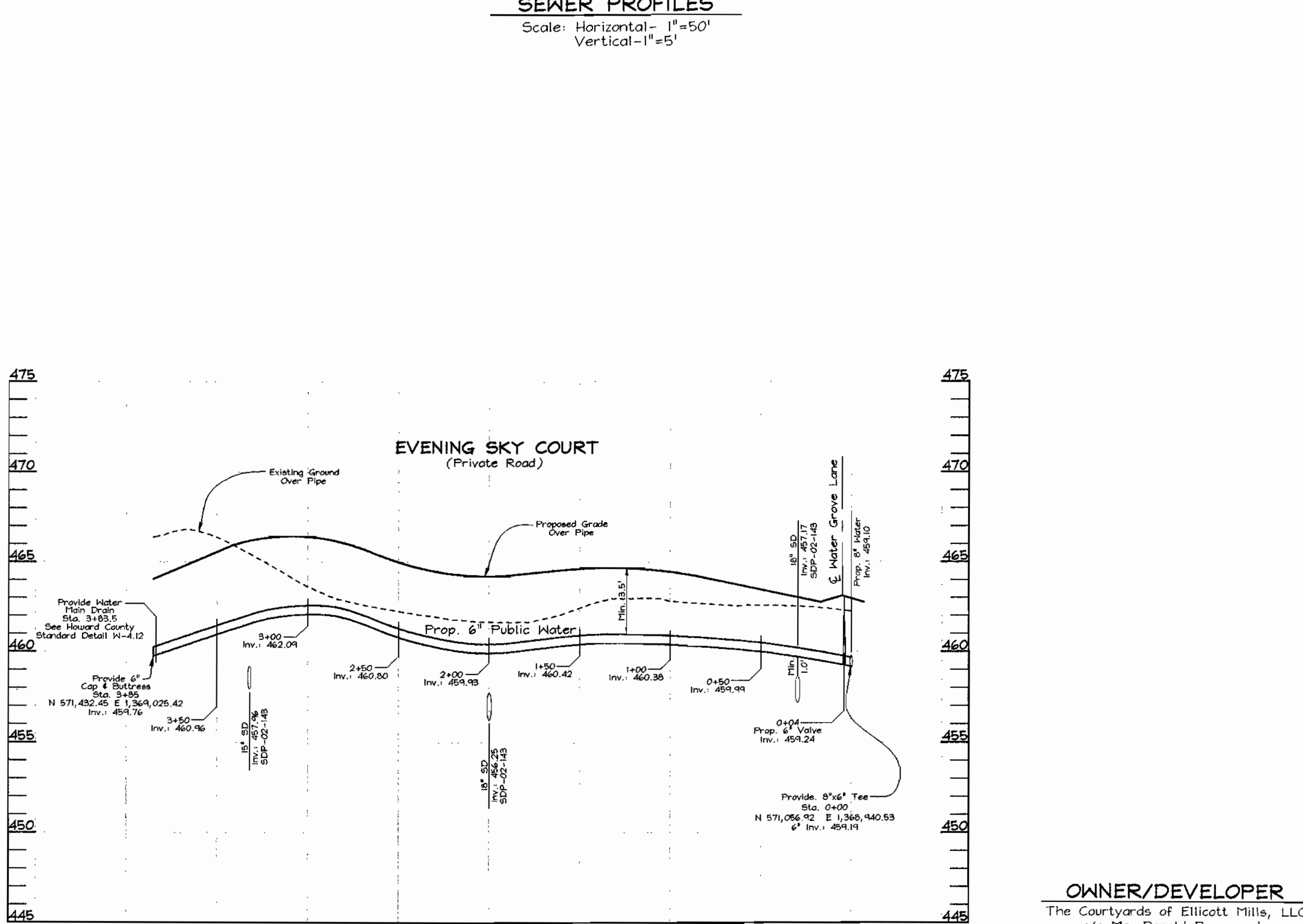
**SEWER PROFILES**  
Scale: Horizontal - 1"=50'  
Vertical - 1"=5'



**SEWER PROFILES**  
Scale: Horizontal - 1"=50'  
Vertical - 1"=5'



**WATER PROFILES**  
Scale: Horizontal - 1"=50'  
Vertical - 1"=5'



**WATER PROFILES**  
Scale: Horizontal - 1"=50'  
Vertical - 1"=5'

**OWNER/DEVELOPER**  
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410-480-9105

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
R. J. Zeman 12-1-03  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
C. J. Reuver 12/2/03  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



DESIGN BY: PS  
DRAWN BY: Slim  
CHECKED BY: ZYF  
DATE: Jan. 19, 2005

K.C.I.	BY	NO.	REVISION	DATE
1	ASBUILT DATA SHOWN PLAN			04/01/04

**WATER AND SEWER PROFILES**  
600' SCALE MAP NO.: 31 BLOCK NO.: 07

**THE COURTYARDS OF ELLICOTT MILLS**  
AGE RESTRICTED ADULT HOUSING  
UNITS 1 THRU 35 AND COMMUNITY BUILDING  
CONTRACT NO. 24-4094-D  
TAX MAP 31 GRID 07 PARCEL 42 AND 43  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET NO. 3 OF 3

NEW PLAN - SUBSTITUTE PREVIOUS SHEETS