

**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)].
  - All vertical controls are based on U.S.G.S. data.
  - 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. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event that 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 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 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:
 

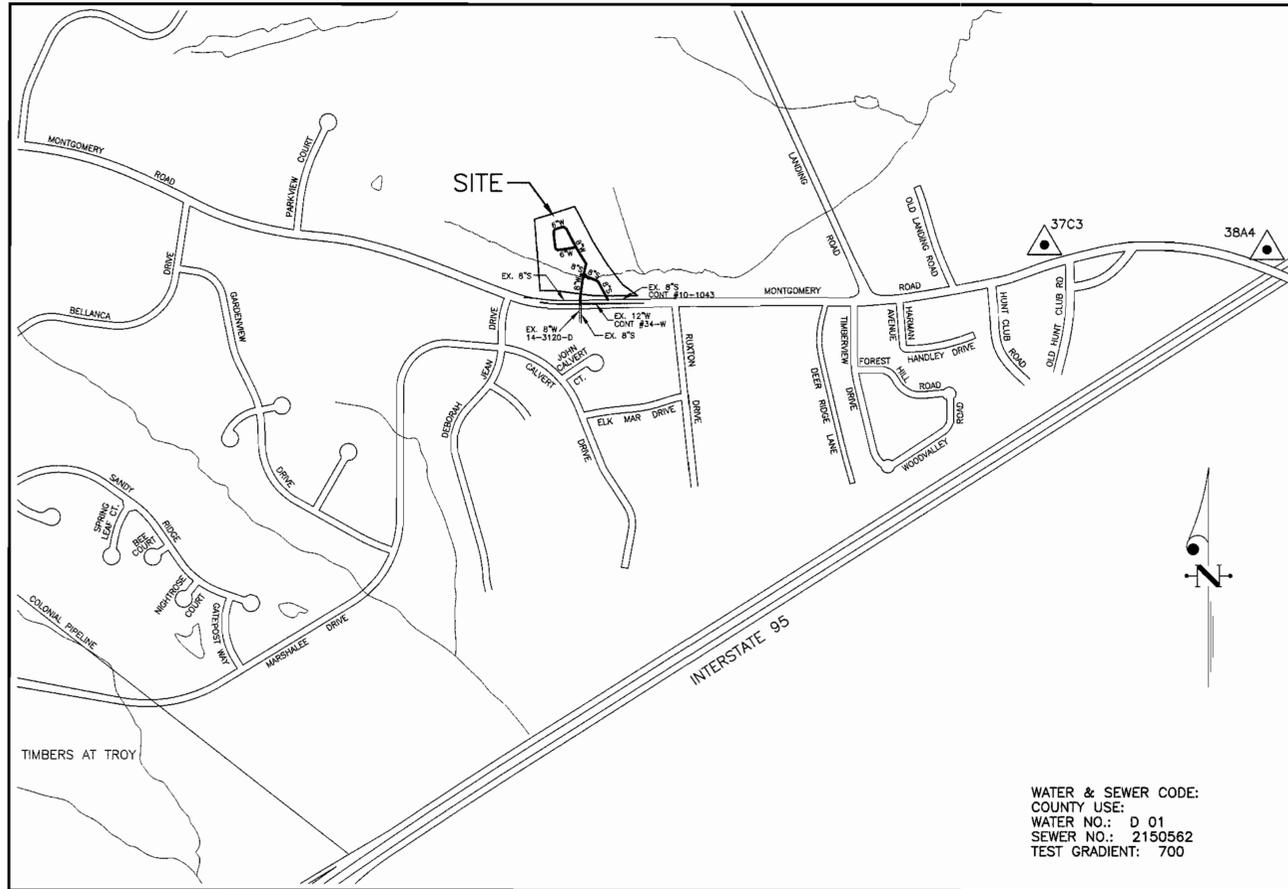
State Highway Administration	410-531-5533
B&E Co. Contractor Services	410-850-4820
B&E Co. Under Ground Damage Control	410-291-4807
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	410-549-4120
Howard County Department of Public Works	410-313-4900
Bureau of Utilities	1-800-446-5266
Bell Atlantic	
  - 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.
  - The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five 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 18.114(c) 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'-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 of 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 Sections 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.
  - For sprinkler system for all townhomes or multi-family dwelling units shall have a minimum of 1" connection with a 3/4" meter.

- PART III - SEWER
- All sewer mains shall be DIP or P.V.C. unless otherwise noted.
  - All manholes shall be 4'-0" inside diameter unless otherwise noted.
  - 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 G5.52. Where watertight manhole frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on the drawings.

**WATER AND SEWER STAKEOUT CHART**

BL STA.	BL OFFSET	W/S STA.	DESCRIPTION
-0+02	10' LT.	0+10	8" W PC (R=400')
0+52	6' LT.	0+65	8" W PT
1+37	6' LT.	1+50	8" W
1+58	6' LT.	1+75	8" W PC (R=205')
1+74	6' LT.	1+87	8" W PT
1+76	104' RT.		MANHOLE NO. 1
1+91	6' RT.		MANHOLE NO. 2
1+96	25' LT.	0+31	8" STOPPER
2+02	6' RT.	0+10	8" STOPPER
2+17	6' LT.	2+30	8" X 6" FHT
2+17	13.7' LT.	2+30	FIRE HYDRANT
2+83	3' LT.	2+95	8" 1/8 HB
3+89	6' LT.	4+00	8" W
4+28	6' LT.	4+39=9+71	6" X 6" TEE
4+89	6' LT.	5+00	8" W
5+75	6' LT.	5+86	8" 1/16 HB
6+09	6' RT.	6+13	8" 1/8 HB
6+16	6' RT.	6+19	8" X 6" FHT
6+16	13.7' LT.	6+19	FIRE HYDRANT
6+73	6' RT.	6+77	6" 1/8 HB
6+92	6' LT.	6+91	8" 1/16 HB & PC (R=211')
7+35	4' LT.	7+34.5	8" W PT
8+18	8' LT.	8+19	6" 1/8 HB
8+60	6' LT.	8+37	6" 1/8 HB
9+51	6' LT.	9+51	6" 1/32 HB



TYPE OF BUILDING	RESIDENTIAL
NO. OF LOTS/PARCELS	1 (PARCEL)
NO. OF WATER HOUSE CONNECTIONS	21
NO. OF SEWER HOUSE CONNECTIONS	1
DRAINAGE AREA	DEEP RUN (PATAPSCO)
TREATMENT PLANT	PATAPSCO WASTEWATER TREATMENT PLANT

**BENCH MARKS**

HOWARD COUNTY MONUMENT #37C3	ELEV. 258.488
N 562916.003	E 1384856.679
HOWARD COUNTY MONUMENT #38A4	ELEV. 224.182
N 562977.621	E 1384288.112

**WATER & SEWER CONSTRUCTION PLANS**  
**ROCKBURN WOODS**  
**21 ADULT CONDOMINIUM UNITS**  
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
**CONTRACT No. 14-3988-D**

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN, SDP-02-51, DRAWINGS 6, 7 & 8, SEDIMENT AND EROSION CONTROL.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*John Robertson* 7/11/02  
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: *Jim Meyer* 7/11/02  
HOWARD S. C. D. DATE

**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	TYPE MANUFACTURER/SUPPLIER
8" (D.I.P.)	162 LF	162 LF	J.M. MANUFACTURING U.S. PIPE & FOUNDRY
8" S (PVC)	140 LF	140 LF	
4" DIA. MH	2 EACH	2EA	ATLANTIC CONCRETE PRODUCTS, INC.
8" W	619 LF	619 LF	U.S. PIPE & FOUNDRY / BRB.
6" W	325 LF	325 LF	"
1" WHC	500 LF		READING TUBE / BRB.
6" V (Excl. FHY)	2 EACH	2EA	MUELLER CO / BRB.
FIRE HYDRANTS	2 EACH	2EA	MUELLER CO / BRB.
12"x8" T.S. & V.	1 EACH	1EA	DREBEOR / BRB.

NAME OF UTILITY CONTRACTOR: UTILITIES UNLIMITED  
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

*Ruth B...* 7-2-02  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

*John Meyer* 7/11/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**CLARK · FINEFROCK & SACKETT, INC.**  
ENGINEERS · PLANNERS · SURVEYORS

7135 MINSTREL WAY COLUMBIA, MD 21045  
(410) 381-7500 BALT. (301) 621-8100 WASH.

5-02-01

DES: JTR			
DRN: LAI			
CHK: CCM			
DATE: 9-6-01	BY: NO.	REVISION	DATE

**TITLE SHEET**

600' SCALE MAP NO. 37 BLOCK NO. 5 & 6

**ROCKBURN WOODS**  
21 ACTIVE ADULT CONDOMINIUMS

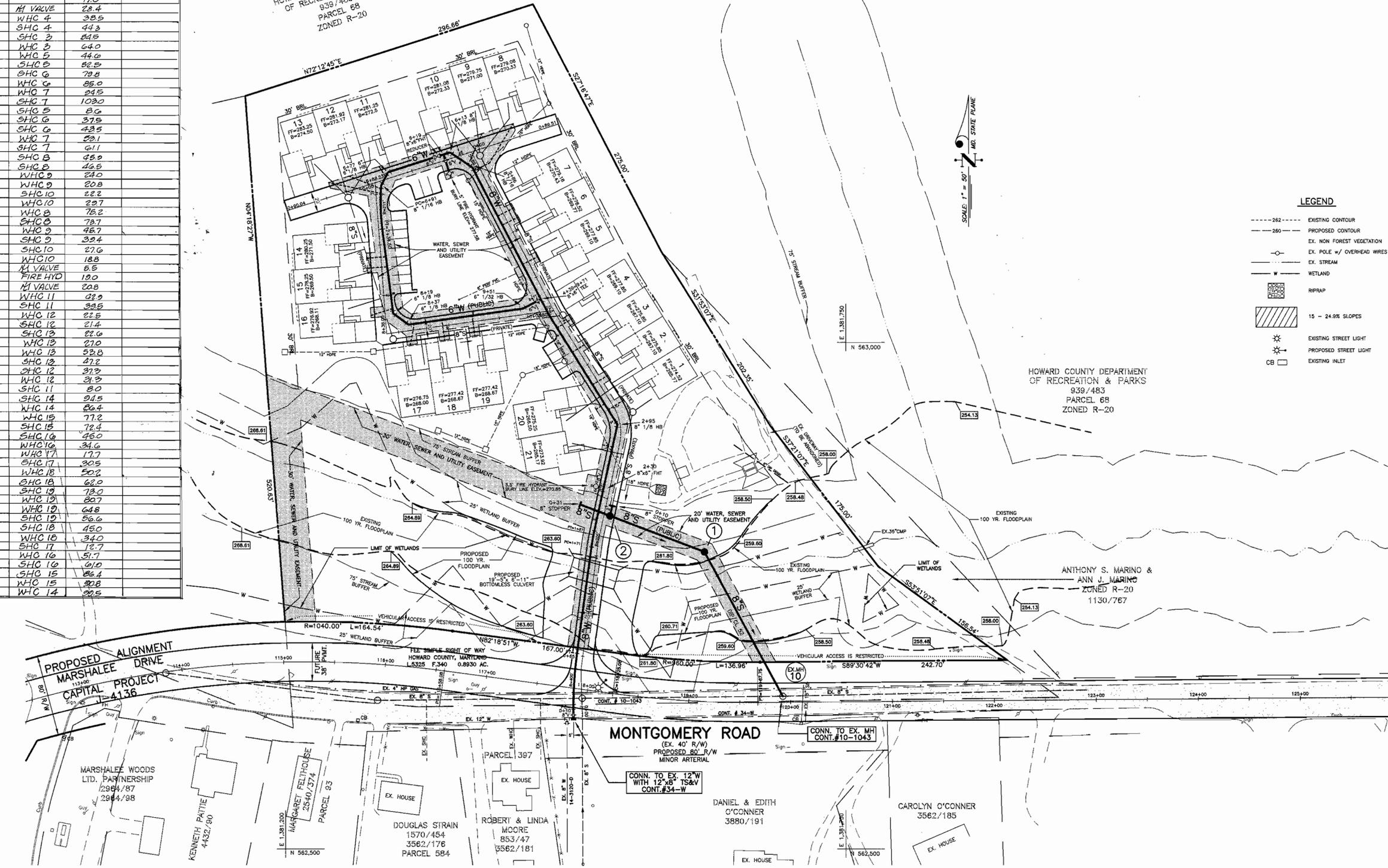
1ST ELECTION DISTRICT  
**CONTRACT No. 14-3988-D**

SCALE: AS SHOWN  
SHEET 1 OF 3

FIELD MEASUREMENTS FOR WATER AND SEWER

LOT #	FROM	TO	DIST	REMARKS	LOT #	FROM	TO	DIST	REMARKS
	SMH 2	F.H.	32.0			SMH	SHC 20	43.8	
	"	F.H. VALVE	30.0			"	WHC 20	38.0	
	WHC LOT 1	SHC LOT 2	19.5			"	WHC 21	46.2	
	WHC LOT 1	WHC LOT 2	30.8			"	SHC 21	42.6	
	SHC LOT 1	WHC LOT 1	12.1			"	SHC 21	37.0	
	SHC LOT 2	WHC LOT 2	11.1			"	WHC 21	41.0	
	SHC LOT 1	SMH	3.5			"	WHC 20	76.6	
	WHC LOT 3	SHC LOT 3	8.5			"	SHC 20	80.5	
	"	WHC LOT 2	36.8						
	"	SMH	36.4						
	SMH	SHC 3	27.3						
	"	SH 4	16.6						
	"	M VALVE	23.4						
	W.V. #1	WHC 4	38.5						
	"	SHC 4	44.3						
	"	SHC 5	84.9						
	"	WHC 5	44.0						
	"	SHC 5	52.5						
	"	SHC 6	78.8						
	"	WHC 6	85.0						
	"	WHC 7	24.5						
	"	SHC 7	103.0						
	WH 8	SHC 5	8.6						
	"	SHC 6	37.5						
	"	SHC 6	43.5						
	"	WHC 7	28.1						
	"	SHC 7	61.1						
	"	SHC 8	45.9						
	"	SHC 8	46.6						
	"	WHC 9	24.0						
	"	WHC 9	20.8						
	"	SHC 10	22.2						
	"	WHC 10	22.7						
	F.H.V.	WHC 8	78.2						
	F.H.V.	SHC 9	78.7						
	"	WHC 9	45.7						
	"	SHC 9	39.4						
	"	SHC 10	27.6						
	"	WHC 10	18.8						
	"	M VALVE	8.5						
	"	FIRE HYD	19.0						
	F.H.	M VALVE	20.8						
	SMH	WHC 11	32.9						
	"	SHC 11	38.5						
	"	WHC 12	22.5						
	"	SHC 12	21.4						
	"	SHC 12	22.6						
	WHC 11	WHC 12	27.0						
	"	WHC 12	27.8						
	"	SHC 12	27.3						
	"	WHC 12	21.3						
	"	SHC 11	8.0						
	SMH	SHC 14	94.5						
	"	WHC 14	86.4						
	"	WHC 15	77.2						
	"	SHC 15	72.4						
	"	SHC 16	45.0						
	"	WHC 16	34.6						
	"	WHC 17	17.7						
	"	SHC 17	30.5						
	"	WHC 18	50.2						
	"	SHC 18	62.0						
	"	SHC 19	73.0						
	"	WHC 19	80.7						
	WHC 17	WHC 19	64.8						
	"	SHC 19	56.6						
	"	SHC 18	45.0						
	"	WHC 18	34.0						
	"	SHC 17	12.7						
	"	WHC 16	51.7						
	"	SHC 16	61.0						
	"	SHC 15	86.1						
	"	WHC 15	80.8						
	"	WHC 14	29.5						

HOWARD COUNTY DEPARTMENT OF RECREATION & PARKS  
938/483  
PARCEL 68  
ZONED R-20



SCALE: 1" = 50'  
NAD 83 STATE PLANE

**LEGEND**

- 262 --- EXISTING CONTOUR
- 260 --- PROPOSED CONTOUR
- EX. NON FOREST VEGETATION
- EX. POLE W/ OVERHEAD WIRES
- EX. STREAM
- W --- WETLAND
- RIPRAP
- 15 - 24.9% SLOPES
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- CB --- EXISTING INLET

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DATE: 7-2-02  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
DATE: 7/19/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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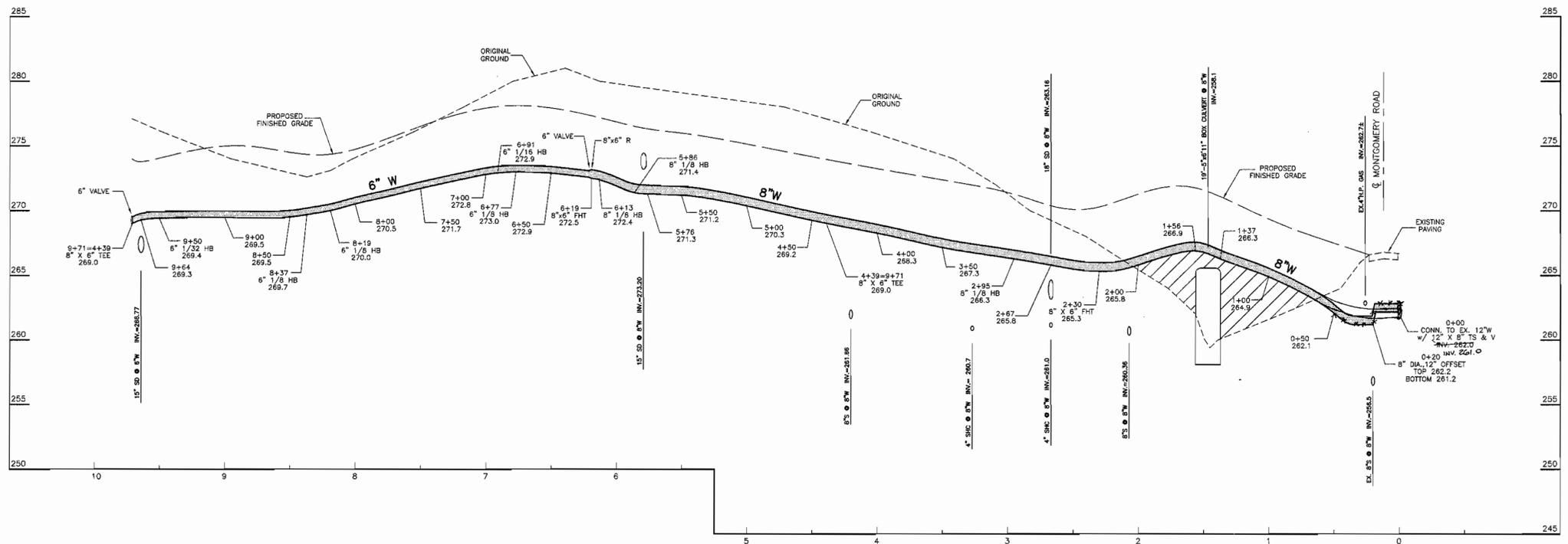


DES:	JTR
DRN:	LAI
CHK:	CCM
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BY:	KCI
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REVISION:	ASBUILT DATA
DATE:	07/02/02

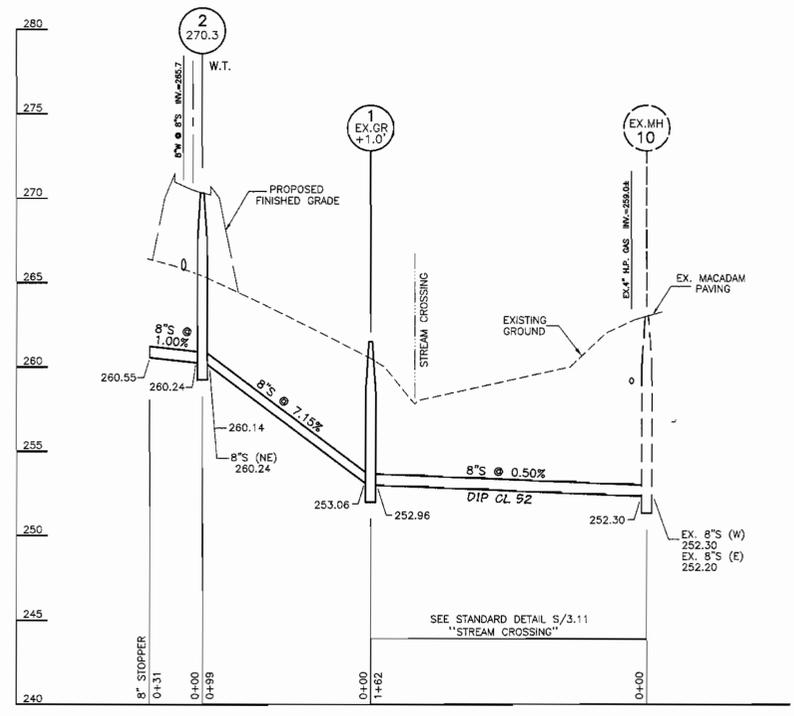
WATER AND SEWER PLAN  
600' SCALE MAP NO. 37 BLOCK NO. 5 & 6

ROCKBURN WOODS  
21 ACTIVE ADULT CONDOMINIUMS  
1ST ELECTION DISTRICT  
CONTRACT No. 14-3988-D  
SHEET 2 OF 3

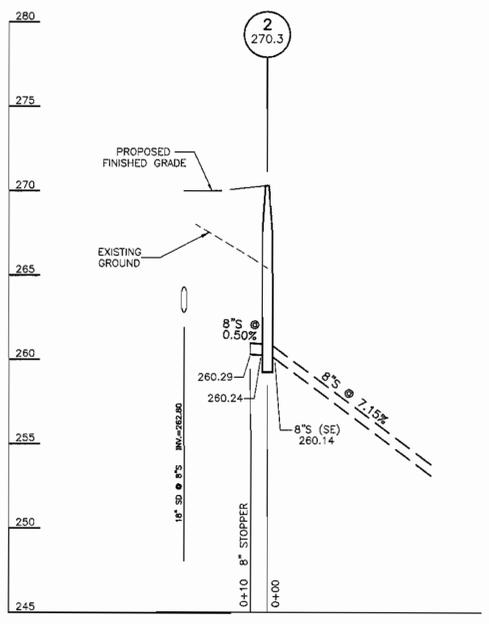
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PROFILE SCALES: HORIZ.: 1" = 50'  
VERT.: 1" = 5'



PROFILE SCALES: HORIZ.: 1" = 50'  
VERT.: 1" = 5'



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
7-2-02  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
7/19/02  
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DES:	JTR				
DRN:	LAI				
CHK:	CCM				
DATE:	9-8-01				
	KCI	1	ASBUILT DATA		07/20/03
	BY	NO.	REVISION	DATE	

WATER AND SEWER PLAN  
AND PROFILES  
600' SCALE MAP NO. 37 BLOCK NO. 5 & 6

ROCKBURN WOODS  
21 ACTIVE ADULT CONDOMINIUMS  
1ST ELECTION DISTRICT  
CONTRACT No. 14-3988-D  
SHEET 3 OF 3