

# WATER AND SEWER EXTENSION LITTLE PATUXENT RIDGE SECTION 3 CONTRACT NO. 24 - 3430 - D 2nd ELECTION DISTRICT

3430 ws/1 Little Patuxent Ridge, sect. 3, lots 25-52

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" SEWER	1175 LF	1176 LF	PVC/SDR35	E.I.I.
MANHOLE	8 EA.	8 EA	ASTM C478	Atlantic
6" WATER	244 LF	248 LF	DIP Class 52	Griffin
4" WATER	1057 LF	1059 LF	DIP Class 52	Griffin
6" CAP & HUTTRESS	1 EA.	1 EA.	DIP	Griffin
4"x6" TEE	2 EA.	2 EA.	DIP	Griffin
4"x6" TEE	1 EA.	1 EA.	DIP	Griffin
6" VALVE	2 EA.	2 EA.	MJ Gate	Kennedy
8" VALVE	2 EA.	2 EA.	MJ Gate	Kennedy
8"-1/2" H.B.	1 EA.	1 EA.	DIP	Griffin
8"-1/2" H.B.	2 EA.	2 EA.	DIP	Griffin
4"x6" REDUCER	1 EA.	1 EA.	DIP	Griffin
FIRE HYDRANT	2 EA.	2 EA.	K 81A	Kennedy
4" SHC	676 LF	722 LF	PVC SDR 35	E.I.I.
4" WHC	148 LF	156 LF	PVC SDR 35	E.I.I.
3, 4" WHC	76 LF	78 LF	Type K Copper	Courtesy-Lee

NAME OF UTILITY CONTRACTOR: **FALLSTON**

CHECKBOX:  AS-BUILT DATE: \_\_\_\_\_

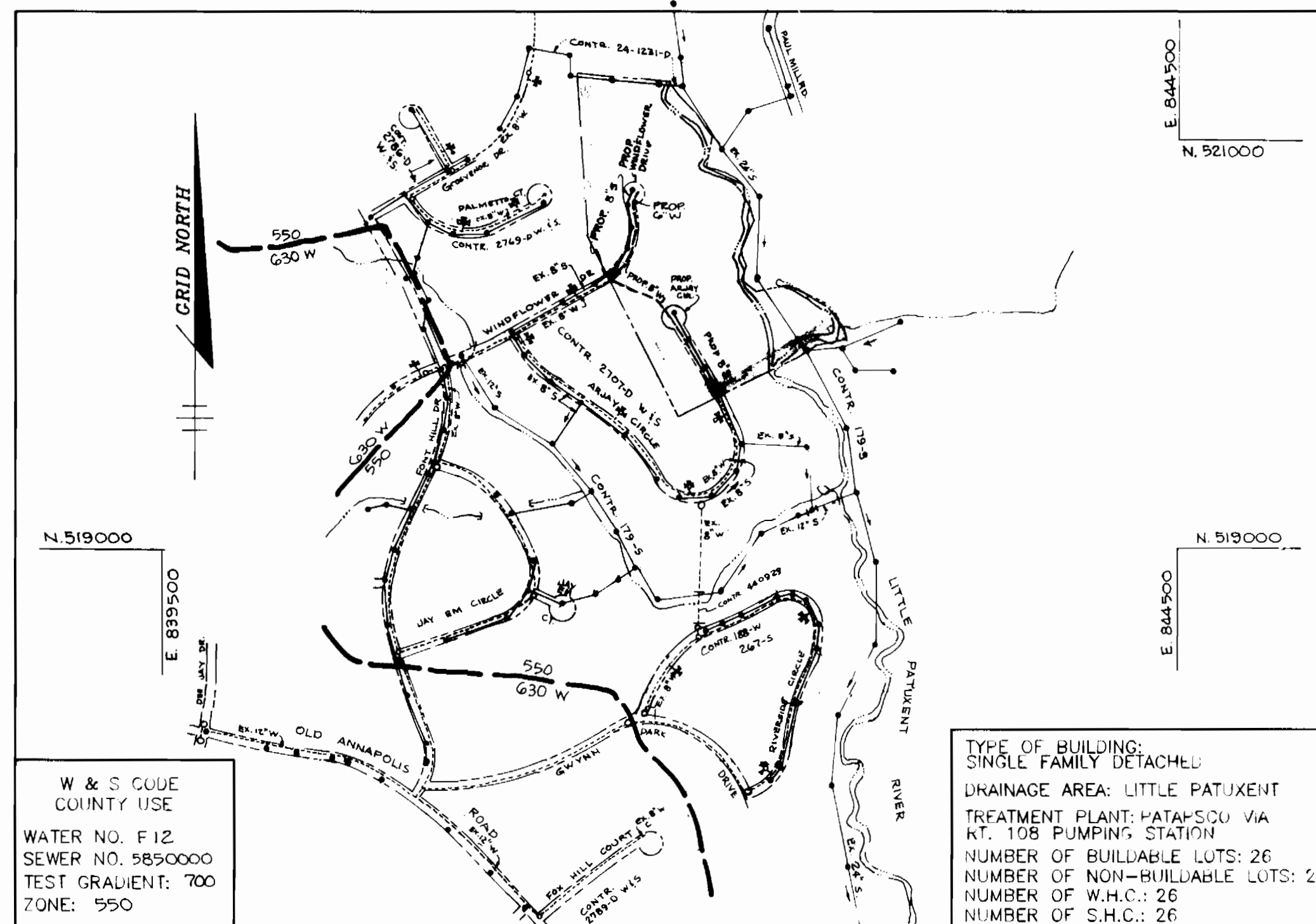
SURVEY AND DRAFTING DIVISION: \_\_\_\_\_

MANHOLE SCHEDULE	
M.H. NO.	LOCATION
7	21+00.00 7' RT. ARJAY CIRCLE
8	22+20.40 7' RT. ARJAY CIRCLE
9	11+50.00 20.4' RT. ARJAY CIRCLE L.P. STA.
10	N 520255 207.4 E. A1040 2250
11	25+40.00 9' RT. WINDFLOWER DR.
12	24+01.00 9' RT. WINDFLOWER DR.
13	21+01.00 60' RT. WINDFLOWER DR. L.P. STA.
14	17+50.00 22.5' RT. WINDFLOWER DR. L.P. STA.

**BENCHMARKS**

BM1  
HOWARD COUNTY MONUMENT NO. 354100Z  
ELEV. 354.602 N. 524397.261  
CONCRETE MONUMENT E. 841575.709

BM2  
HOWARD COUNTY MONUMENT NO. 354100T  
ELEV. 386.648 N. 526573.744  
CONCRETE MONUMENT E. 840096.686



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.C.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 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 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 Service 850-4620
  - 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 DIP or PVC 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. Contractor shall have an option to provide pre-cast manholes in accordance with Design Vol. IV.
- 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 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/locking 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 10.114 (a) of the Howard County Code.

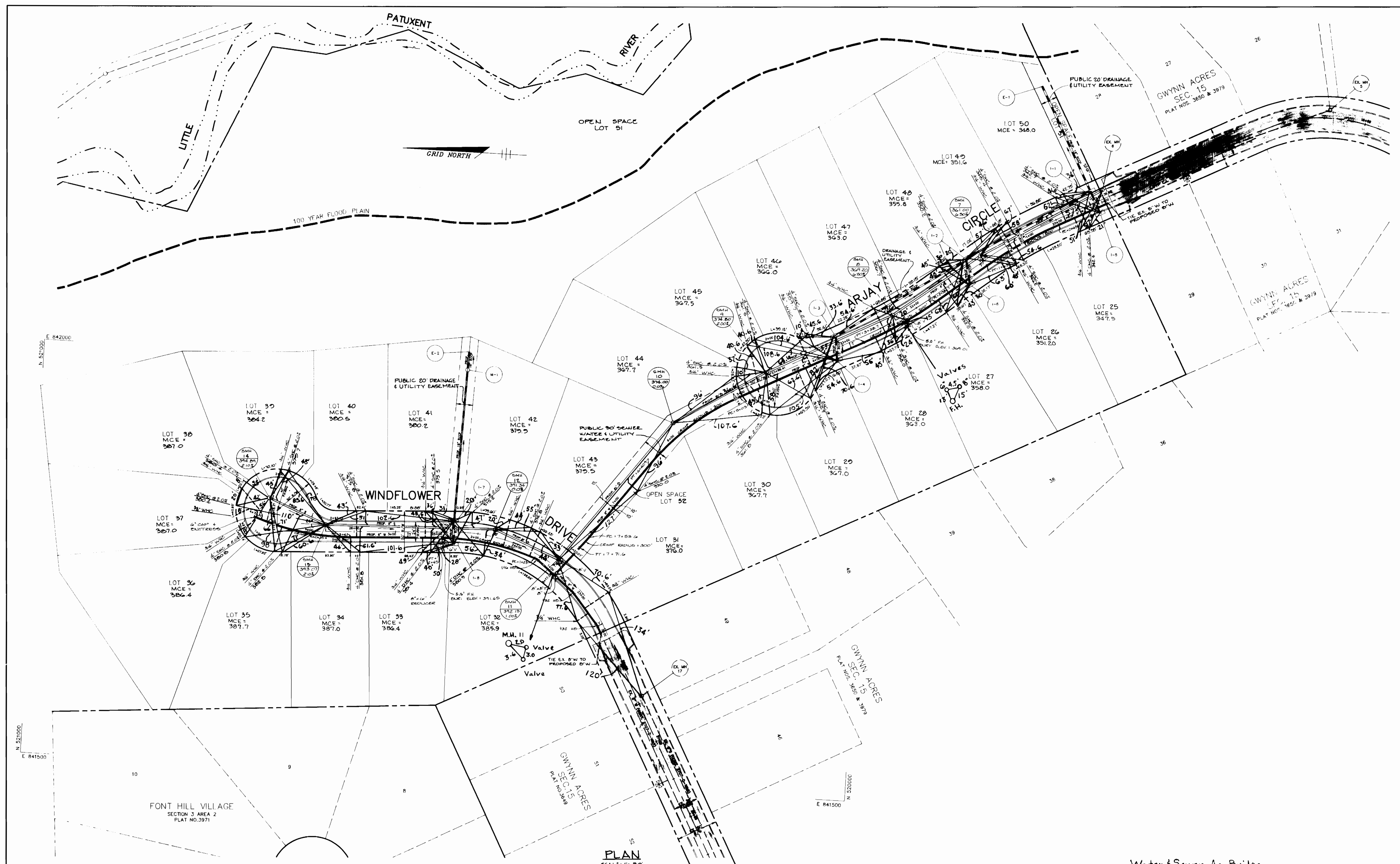
Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-95-134

Review for Howard Soil Conservation District and needs technical requirements.  
*Patricia Englund* 8/22/95  
NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*John P. Roberts* 8/22/95  
HOWARD SOIL CONSERVATION DISTRICT DATE

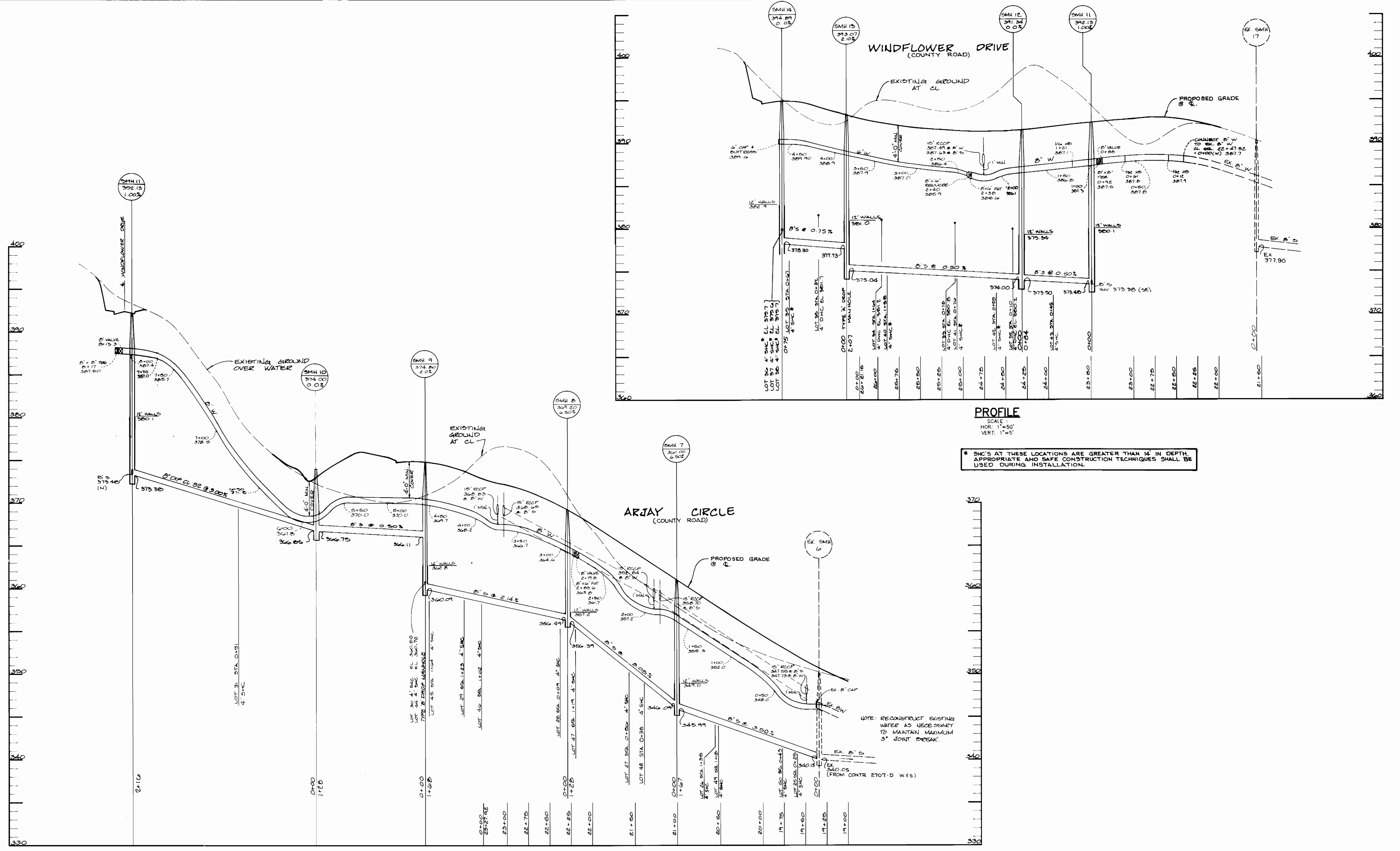
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>John K. Welby</i> 8/19/95 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>John P. Roberts</i> 8/22/95 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	<b>RIEMER MUEGGE &amp; ASSOCIATES, INC.</b> Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21046 410-997-8900 FAX: 410-997-9282  <i>J. Laible</i> JAYKANT D. PAREKH 8/22/95	DESIGNED BY: A.A.F. DRAWN BY: C.M. CHECKED BY: D.R.F. DATE: 8-17-95	BY: N.L. REVISION: _____ DATE: _____	<b>TITLE SHEET</b>  LITTLE PATUXENT RIDGE, SECTION 3 LOTS 25 - 52 TAX MAP: 24 PARCELS: 2, 3 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24 - 3430 - D	SCALE AS SHOWN  SHEET 1 OF 3
--	--	---	--	--	---	------------------------------------

3430 ws/2 Little Patuxent Ridge, sect. 3, lots 25-52



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF BUREAU OF UTILITIES DATE: 8/1/05	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DATE: 8/1/05	RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8800 FAX: 410-997-9282	J. Parekh JAYKANT D. PAREKH #19140	DES: A.A.P. DRN: C.M. CHK: D.R.F. DATE: 6-17-05 BY: NO. REVISION DATE:	WATER AND SEWER PLAN 600' SCALE MAP NO. 24 BLOCK NO. 14, 15	Water & Sewer As-Builts LITTLE PATUXENT RIDGE, SECTION 3 LOTS 25 - 52 TAX MAP: 24 PARCEL: 228 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3430-D SCALE AS SHOWN SHEET 2 OF 3
--	--	---	---------------------------------------	--	--	--

3430 ws/3 Little Patuxent Ridge, sect. 3, lots 25-52



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

\* SHC'S AT THESE LOCATIONS ARE GREATER THAN 14" IN DEPTH, APPROPRIATE AND SAFE CONSTRUCTION TECHNIQUES SHALL BE USED DURING INSTALLATION.

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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND [Signature]	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND [Signature]	<b>RIEMER MUEGGE &amp; ASSOCIATES, INC.</b> Planners + Engineers + Surveyors 8618 Centre Park Drive + Suite 200 + Columbia, MD 21046 410-997-8000 FAX: 410-997-9282 [Signature]	DES: A.A.P. DRN: C.M. CHK: D.R.F. DATE: 0-17-05	1 CHANGED SLOPE TO TYPE B' PROVISION + B'S TO DIP CL 52 BETWEEN STA 10 + 11 REVISION DATE: 600' SCALE MAP NO. 24 BLOCK NO. 14, 15	<b>WATER AND SEWER PROFILE</b>	<b>LITTLE PATUXENT RIDGE, SECTION 3          LOTS 25 - 52</b> TAX MAP: 24 PARCEL: 228 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3430-D	SCALE AS SHOWN SHEET 3 OF 3
--	---	---	--	---	--------------------------------	--	--------------------------------