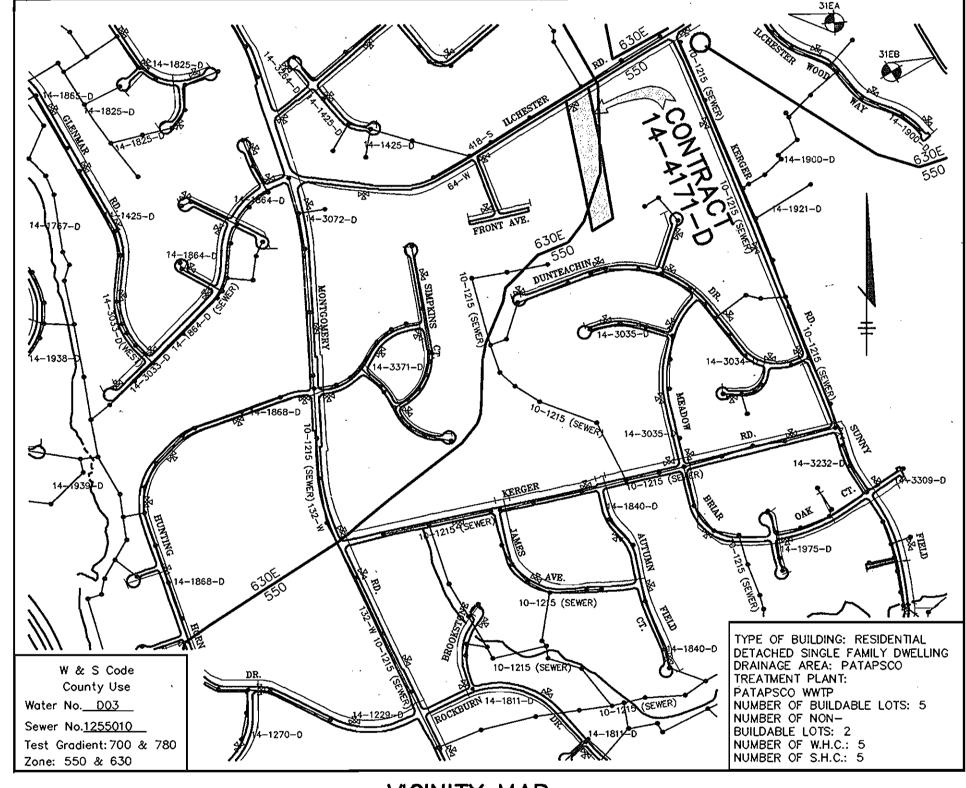
SHEET INDEX							
NO.	DESCRIPTION						
1	TITLE SHEET						
2	PLAN OF WATER AND SEWER MAINS						
3	PROFILE OF WATER AND SEWER MAINS						

# WATER AND SEWER EXTENSIONS ILCHESTER MANOR

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4171-D



VICINITY MAP

## 3. All vertical controls are based on NAVD 88.

immediately to the satisfaction of the Engineer at the Contractor's expense.

2. All horizontal controls are based on Maryland State Coordinates, NAD 83/91.

4. All pipe elevations shown are invert elevations unless otherwise noted on the plans.

5. Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required 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 the bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.

GENERAL NOTES

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing moins and services and maintain uninterrupted service. Any damage incurred shall be repaired

6. 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 Editian). The contractor

7. 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.

8. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

1-800-252-1133 BGE (Contractor Services) BGE (Underground Damage Control) Bureau of Utilities Colonial Pipeline Co. Miss Utility

410-850-4620 410-787-9068 410-313-4900 410-795-1390 1-800-257-7777

410-531-5533 1-800-743-0033 / 410-224-9210

9. 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.

10. 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 canstruction of the main.

11. The contractor shall notify the Bureau of Highways, Howard County, at 410-313-7450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or house

connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

1. All water mains shall be D.I.P. Class 52 unless otherwise noted.

2. Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.

3. Valves adjacent to tees shall be strapped to tees.

4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.

5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.

6. The contractor shall not operate any water main valves on the existing water system.

### **SEWER NOTES**

1. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.

2. All manholes shall be 4'-0" inside diameter unless otherwise noted.

3. Force mains shall be D.I.P. anly.

4. Manholes shown with 12" and 16" walls are for brick manholes only.

5. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frames and covers is used, set top of frame 1"-6" above finished grade unless otherwise noted on the drawings.

6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

### NAME OF UTILITY CONTRACTOR: W.F. WILSON

QUANTITIES

**QUANTITIES** 

446 L.F.

315 G.F.

05 6.F.

754 L.F.

58 L.F.

42

QUANTITIES

**ESTIMATED** 

313 LF

93 LF

755 LF

55 LF

2 EA.

1 EA.

2 EA.

4 EA.

ITEMS

8" WATER

6" WATER

1" WHC

8" SEWER

8"x8" TSV

6" VALVES

FIRE HYDRANTS

SEWER MANHOLES

4" SHC

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-04-151 CHECKBOX AS-BUILT DATE SURVEY AND DRAFTING DIVISION

TAP SUEEVEOR VAL JOH MUELLER BRS

R.S. OR GATE VAL. MUELER CO BRS.

AS-BUILT

TYPE

CL 52 D. I. P.

KCOPPER

S.O.R. 35

S. D.R. 35

HYDRANTS

PRECABIT

U.S. PITE/BRS

n n n

BRS

U.SPIPE BRS

MUELLER CO. BRS

ATLANTIC/CONG.

Review for Howard Soil Conservation District and meets technical requirements.

This plan is approved for soil erosion and

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Patton Harris Rust & Associates,pc Engineers, Surveyors, Planners, Landscape Architects 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900



A STATE OF THE STA	DES: C.J.R.				
	0.011				
	DRN: D.A.M.				
	CHK: CJR	K.CI.	2	ABBUILT DATA	10/5/06
		ACR	i	REVISED QUANTITIES AND SHEET INDEX	11-29-05
#19949	DATE: 10/21/04	BY	NO.	REVISION DA	ATE

TITLE SHEET

BLOCK NO.

BENCH MARK

ELEVATION 469.604

ELEVATION 453.398

N 569,641.124 E 1,374,815.936

N 568,730.984 E 1,376,273.491

600' SCALE MAP NO. \_\_3

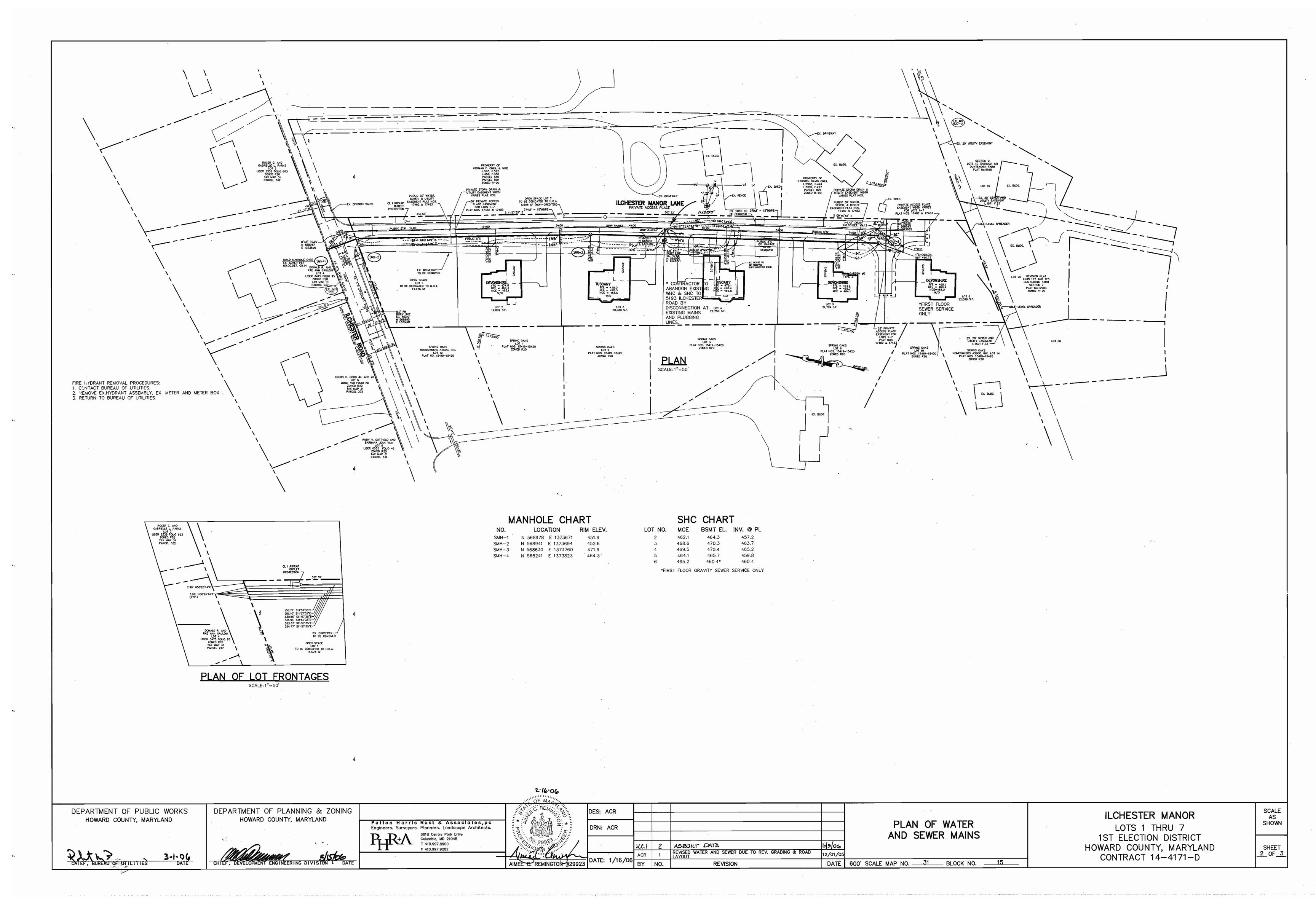
CONTROL STATION 31EA

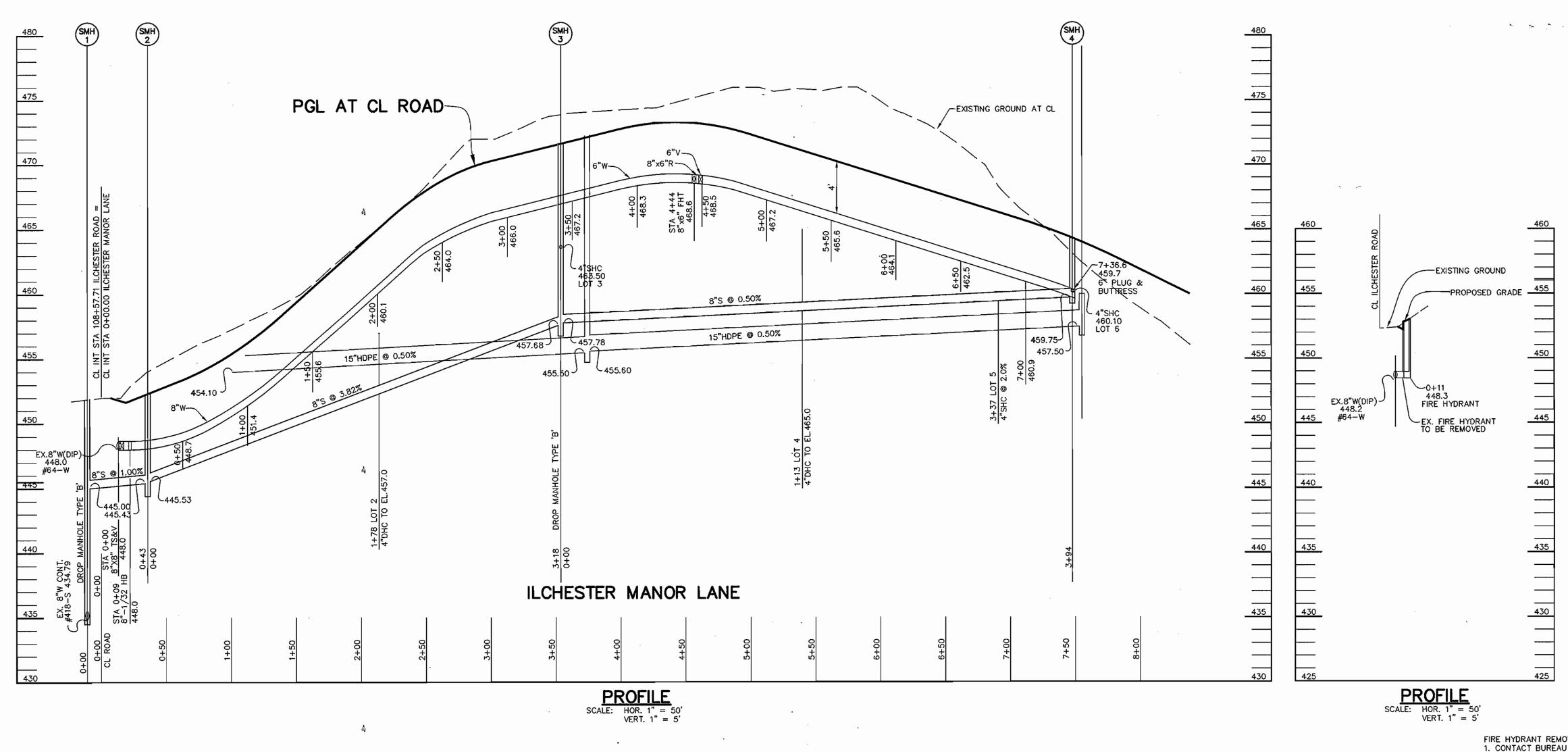
CONTROL STATION 37EB

ILCHESTER MANOR LOTS 1 THRU 7 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-4171-D

**SCALE** SHOWN

SHEET <u>1</u> of <u>3</u>





FIRE HYDRANT REMOVAL PROCEDURES:
1. CONTACT BUREAU OF UTILITIES.
2. REMOVE EX.HYDRANT ASSEMBLY.
3. RETURN EX. HYDRANT TO BUREAU OF UTILITIES.

1.16.06 DEPARTMENT OF PLANNING & ZONING SCALE AS SHOWN DEPARTMENT OF PUBLIC WORKS DES: ACR ILCHESTER MANOR HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. LOTS 1 THRU 7 DRN: ACR WATER AND SEWER PROFILE 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND SHEET 3 OF 3 REVISED WATER AND SEWER PROFILE DUE TO REV. GRADING & 12/1/05 CONTRACT 14-4171-D DATE 600' SCALE MAP NO. 31 BLOCK NO. 15 REVISION