

AS-BUILT 11/10/94

LITTLE PATUXENT RIDGE WS/A 3297

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# WATER AND SEWER EXTENSION LITTLE PATUXENT RIDGE

SECTION TWO LOTS 14-24  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3297-D

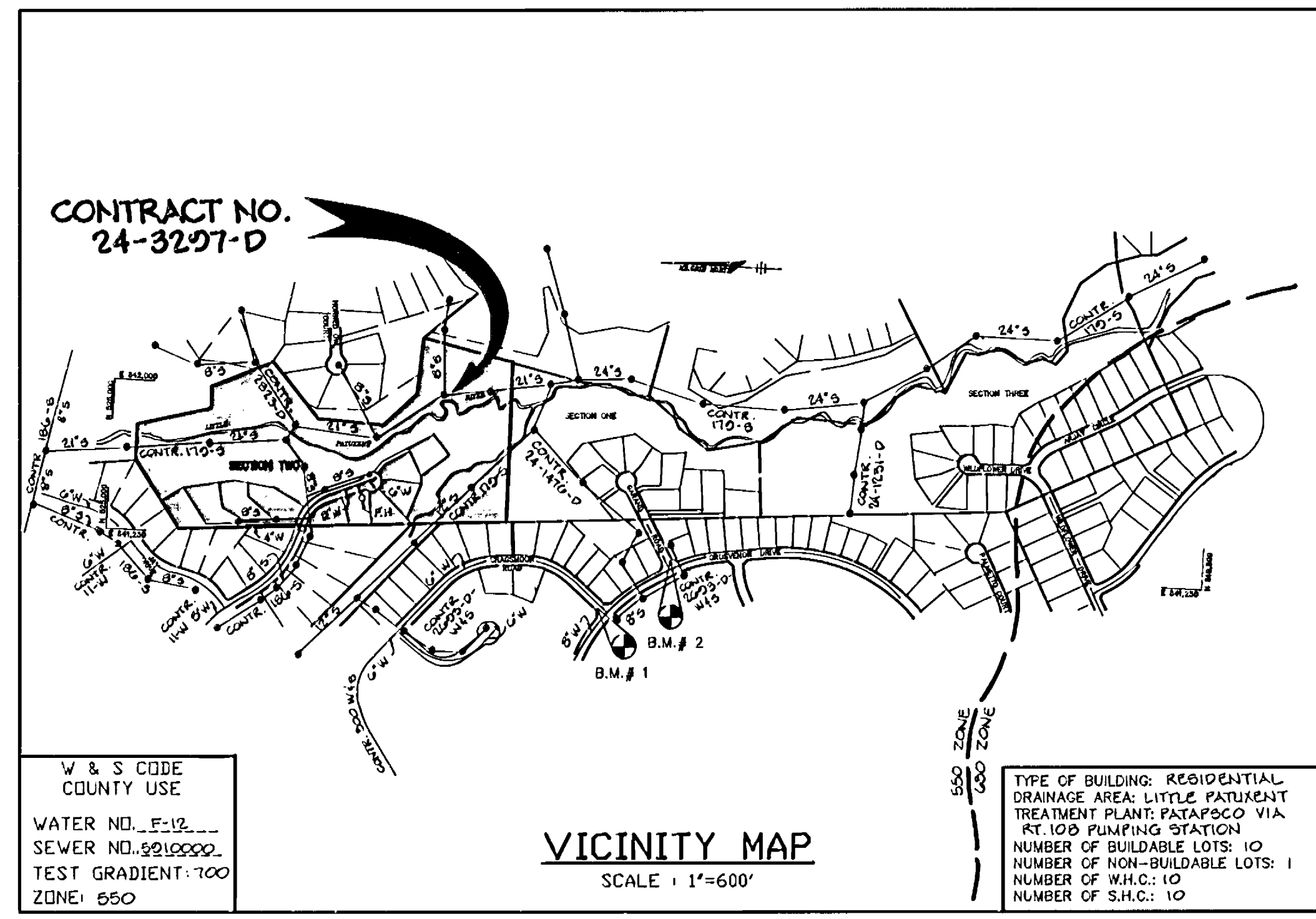
### GENERAL NOTES

- 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 are invert elevations.
- Clear all utilities by a minimum of 8". 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 Services 850-4620
  - Baltimore Gas & Electric Co. Underground Damage Control 787-9088
  - Miss Utility 1-800-257-7777
  - Colonial Pipeline Co. 795-1390
  - Bureau of Utilities, Howard County Department of Public Works 313-4900
- Trees 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 trees shall be strapped to trees.
- 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 strapped 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 ater 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, RCP, VCPX, CSPX, RCCP AND P.V.C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole 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 18" 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'-8" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WATER	305 LF	413 LF	DEP	BRUNNEN, ANNEAPOLIS, MD.
6" WATER	80 LF	81 LF	DEP	"
4" WATER	430 LF	430 LF	DEP	"
8" SEWER	760 LF	121 LF	PVC & DEP	MARSHALL, ANNAPOLIS, MD.
4" MANHOLE	6 EA.	2 EA.	2" MANHOLE	MARSHALL, ANNAPOLIS, MD.
4" SEWER (DHC)	411 LF	412.5 LF	PVC & DEP	MARSHALL, ANNAPOLIS, MD.
FIRE HYDRANT	1 EA.	1 EA.	K-21, 6" BURY	WATKINS, ANNAPOLIS, MD.
3/4" WATER (NHC)	311 LF	320 LF	SOFT K COPPER	WATKINS, ANNAPOLIS, MD.
6" VALVE	1 EA.	1 EA.	R20, 2" JANT	WATKINS, ANNAPOLIS, MD.
4" VALVE	1 EA.	1 EA.	"	"
8" x 6" TEE	1 EA.	1 EA.	DE	WATKINS, ANNAPOLIS, MD.
8" x 4" TEE	1 EA.	1 EA.	"	"
8" x 6" REDUCER	1 EA.	1 EA.	"	"
6" PLUG & BUTTRESS	1 EA.	1 EA.	DE & BUTTRESS	"
4" PLUG & BUTTRESS	1 EA.	1 EA.	DE & BUTTRESS	"
2" VALVE	1 EA.	1 EA.	"	"

NAME OF UTILITY CONTRACTOR: FALLS CHURCH INDUSTRIES

CHECKBOX	
AS-BUILT DATE	11/10/94
SURVEY AND DRAFTING DIVISION	



### BENCH MARKS

- B.M.#1** ELEV. 381.02  
TOP STEM OF FIRE HYDRANT AT INTERSECTION OF GROSVENOR DRIVE AND CRAGMOOR ROAD.
- B.M.#2** ELEV. 379.67  
TOP STEM OF FIRE HYDRANT AT INTERSECTION OF GROSVENOR DRIVE AND GARAND ROAD.

MANHOLE SCHEDULE		
NO.	NORTH	EAST
1	524019.11	841468.71
2	523916.70	841469.46
3	523673.99	841569.71
4	524018.14	841334.91
5	524177.73	841323.54
6	524417.15	841306.34

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on P-24-01.

*John L. Roberts* 11/2/93  
HOWARD SOIL CONSERVATION DISTRICT

Review for Howard Soil Conservation District and meet technical requirements.

*John A. Walcott* 11/2/93  
UD SOIL CONSERVATION SERVICE

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

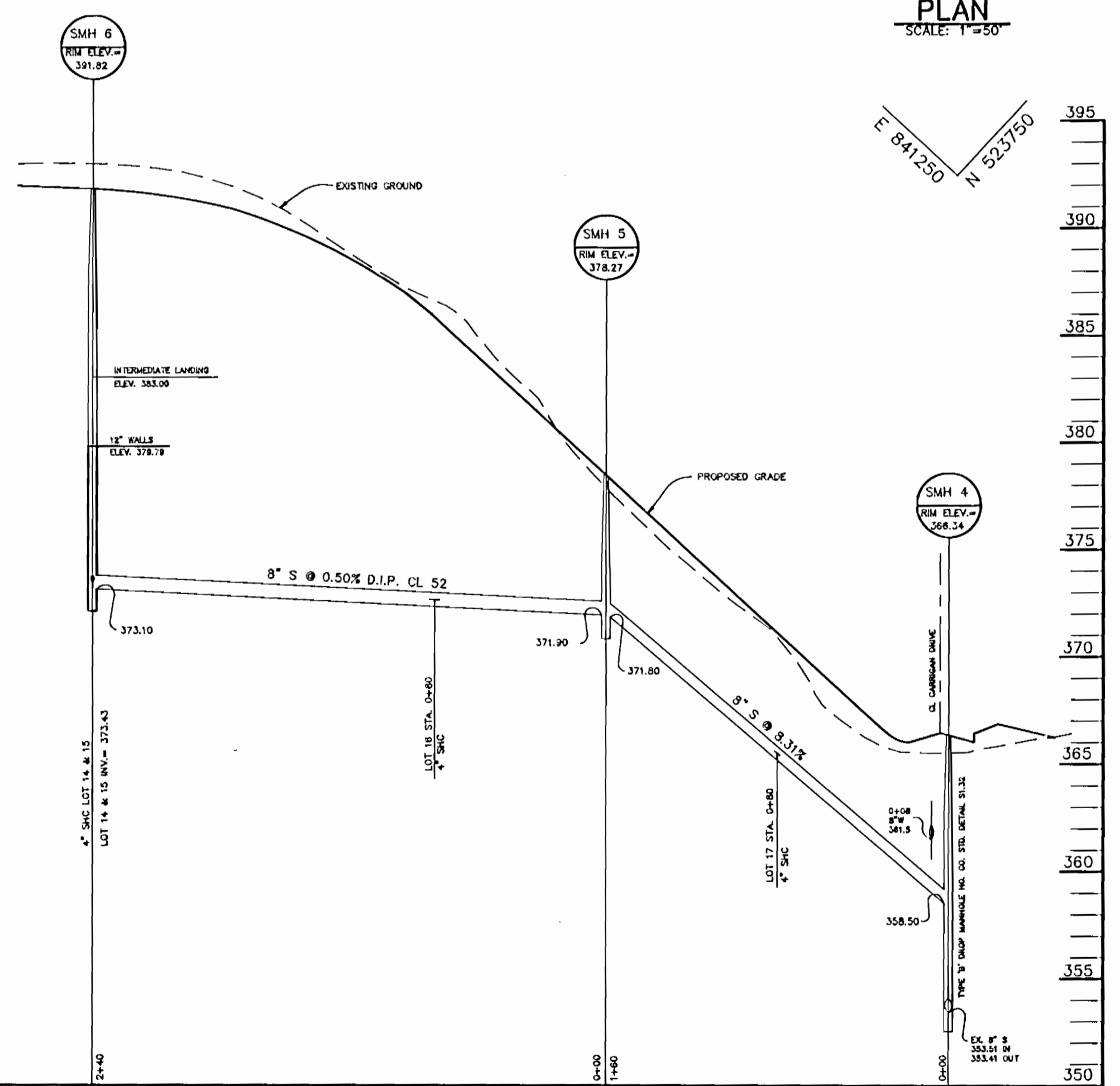
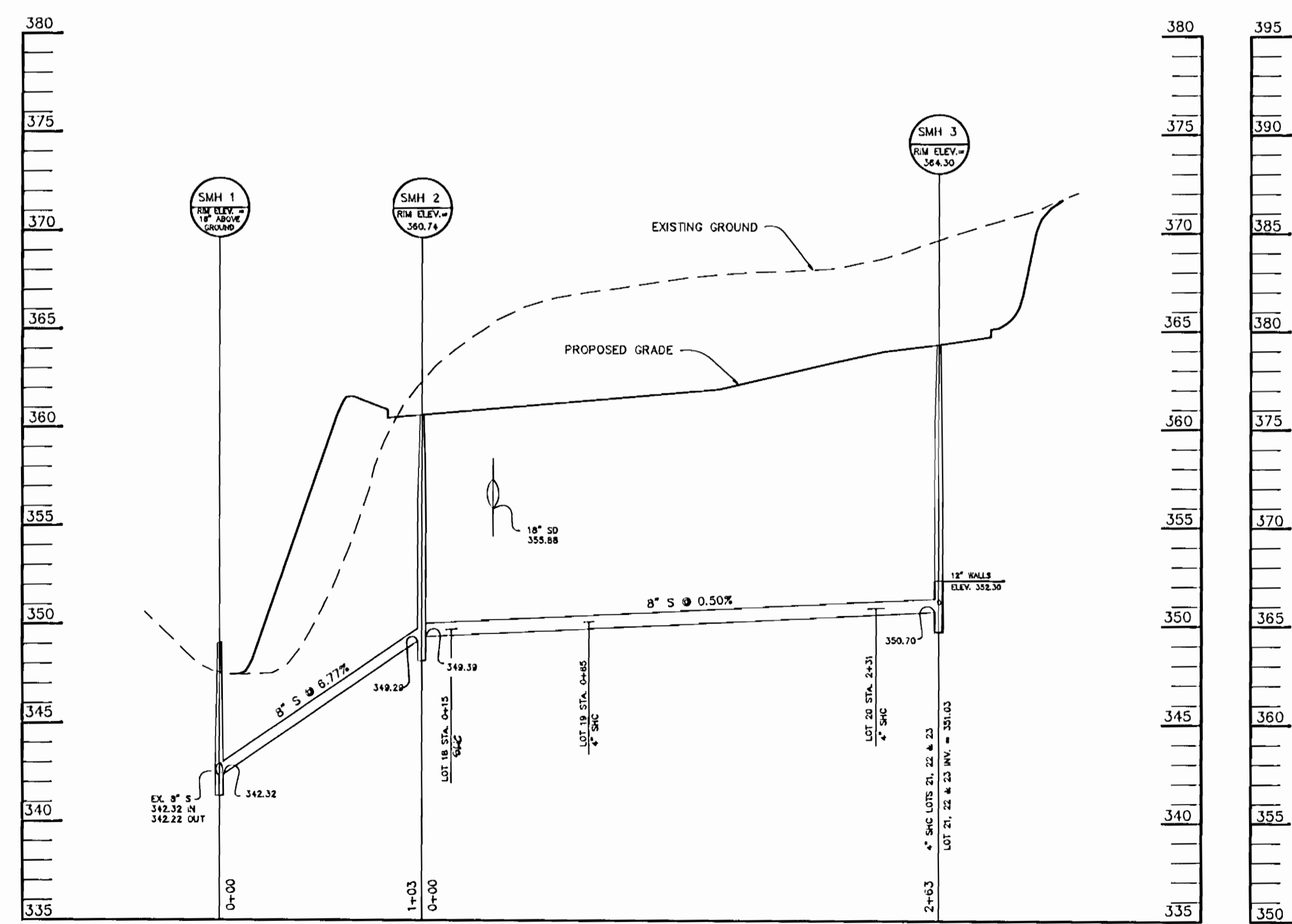
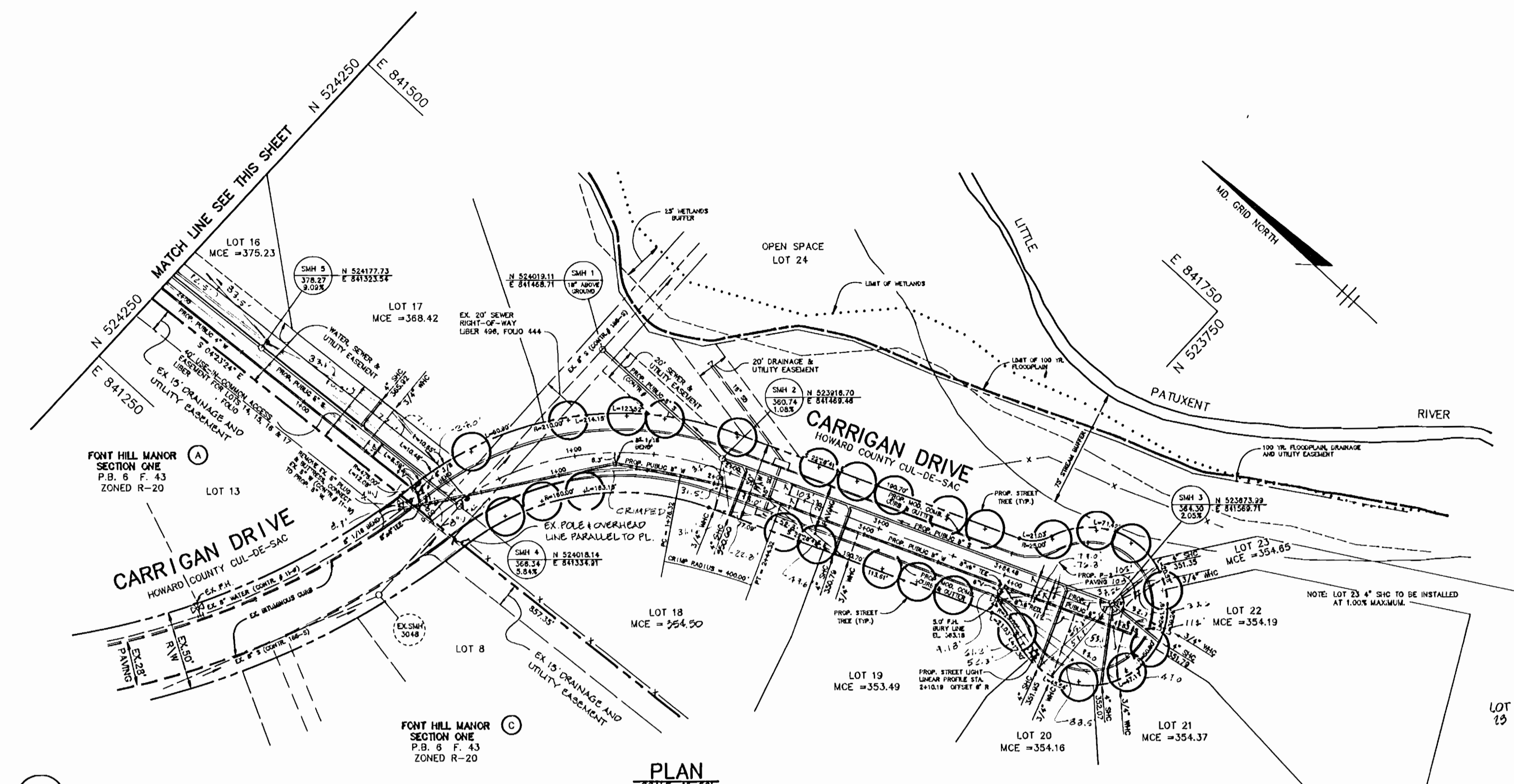
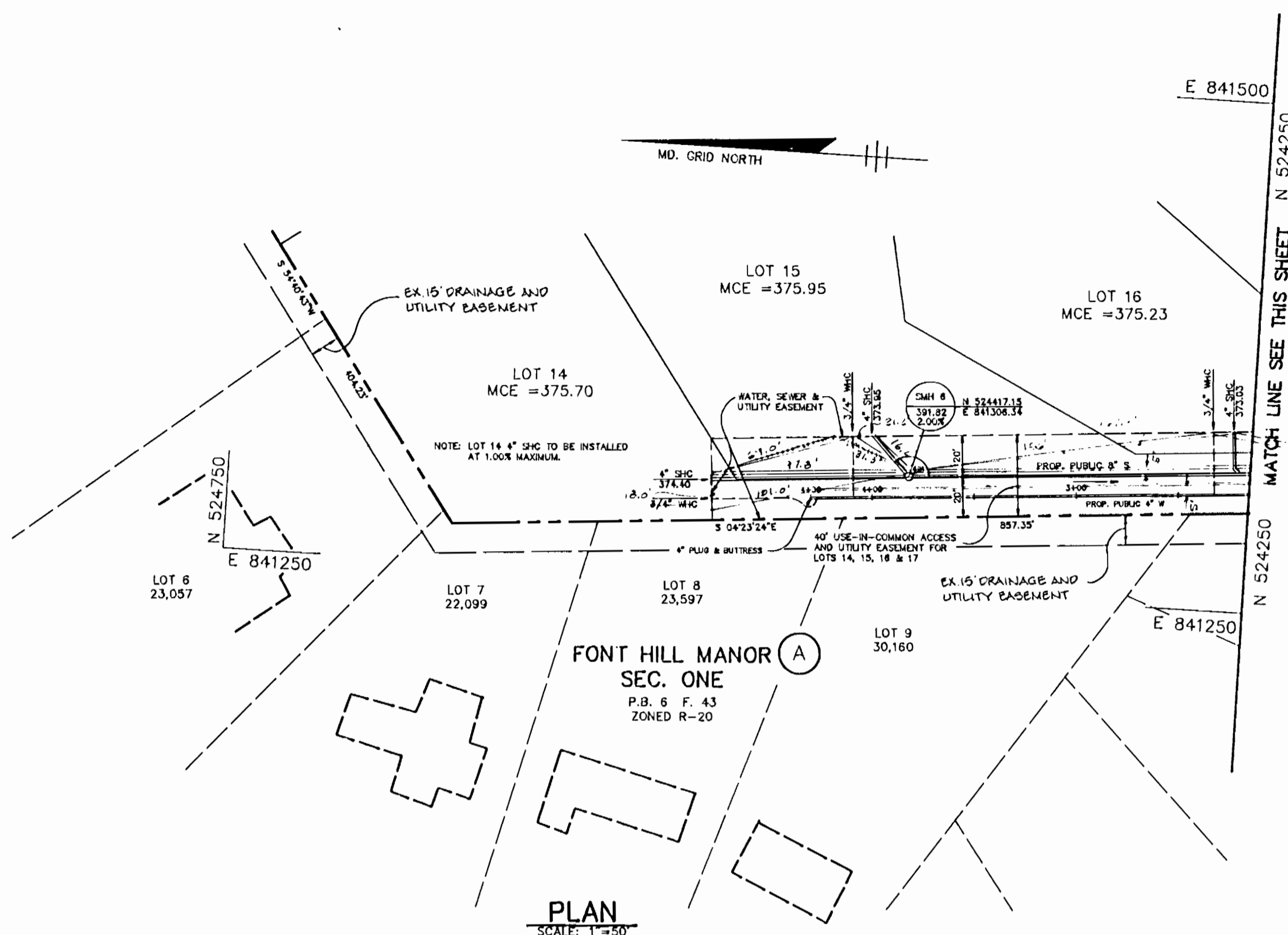
*John L. Roberts* 11/2/93  
HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>James M. Slavin</i> 11/2/93 DIRECTOR OF PUBLIC WORKS DATE  <i>Robert J. Popson</i> 11/2/93 CHIEF, BUREAU OF ENGINEERING DATE  <i>Robert J. Popson</i> 10-23-93 CHIEF, BUREAU OF UTILITIES DATE  <i>John A. Walcott</i> 11/2/93 CHIEF, LAND DEVELOPMENT DATE	RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, Md. 21045 410-997-8900 FAX: 410-997-9282  JAYKANT D. PAREKH # 19148	<table border="1"> <tr> <td>DES: D.B.S.</td> <td></td> </tr> <tr> <td>DRN: D.B.S.</td> <td></td> </tr> <tr> <td>CHK: D.R.F.</td> <td></td> </tr> <tr> <td>DATE: 9-1-93</td> <td></td> </tr> <tr> <td>BY: ND.</td> <td></td> </tr> <tr> <td>REVISION</td> <td></td> </tr> </table>	DES: D.B.S.		DRN: D.B.S.		CHK: D.R.F.		DATE: 9-1-93		BY: ND.		REVISION		<table border="1"> <tr> <td colspan="2" style="text-align: center;">TITLE SHEET</td> </tr> <tr> <td colspan="2" style="text-align: center;">LITTLE PATUXENT RIDGE SECTION 2 LOTS 14-24 TAX MAP 29 PARCEL 228 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3297-D</td> </tr> <tr> <td>600' SCALE MAP NO. 24</td> <td>BLOCK NO. 6</td> </tr> </table>	TITLE SHEET		LITTLE PATUXENT RIDGE SECTION 2 LOTS 14-24 TAX MAP 29 PARCEL 228 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3297-D		600' SCALE MAP NO. 24	BLOCK NO. 6
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3297 ws/2 LITTLE PATUXENT RIDGE



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

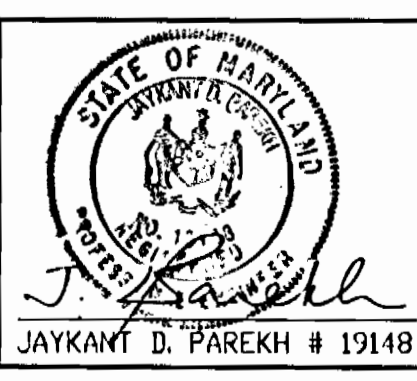
*James M. Shaw* 11/2/93  
DIRECTOR OF PUBLIC WORKS DATE

*Robert B. Bannister* 10-25-93  
CHIEF, BUREAU OF UTILITIES DATE

*Richard E. Spang* 11/2/93  
CHIEF, BUREAU OF ENGINEERING DATE

*John D. Parnham* 11/2/93  
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.  
Planners • Engineers • Surveyors  
8818 Centre Park Drive Suite 200 Columbia, Md  
410-997-8900 FAX: 410-997-9282



DES. D.B.S.	
DRN. D.B.S.	
CHK. D.R.F.	
DATE: 1-1-93	
BY: JCO	1
NO.:	
REVISION:	CHANGE LOT 18 DHC TO SMC
DATE:	1-12-93

PLAN AND PROFILE OF  
WATER AND SEWER MAINS

600' SCALE MAP NO. 24 BLOCK NO. 8

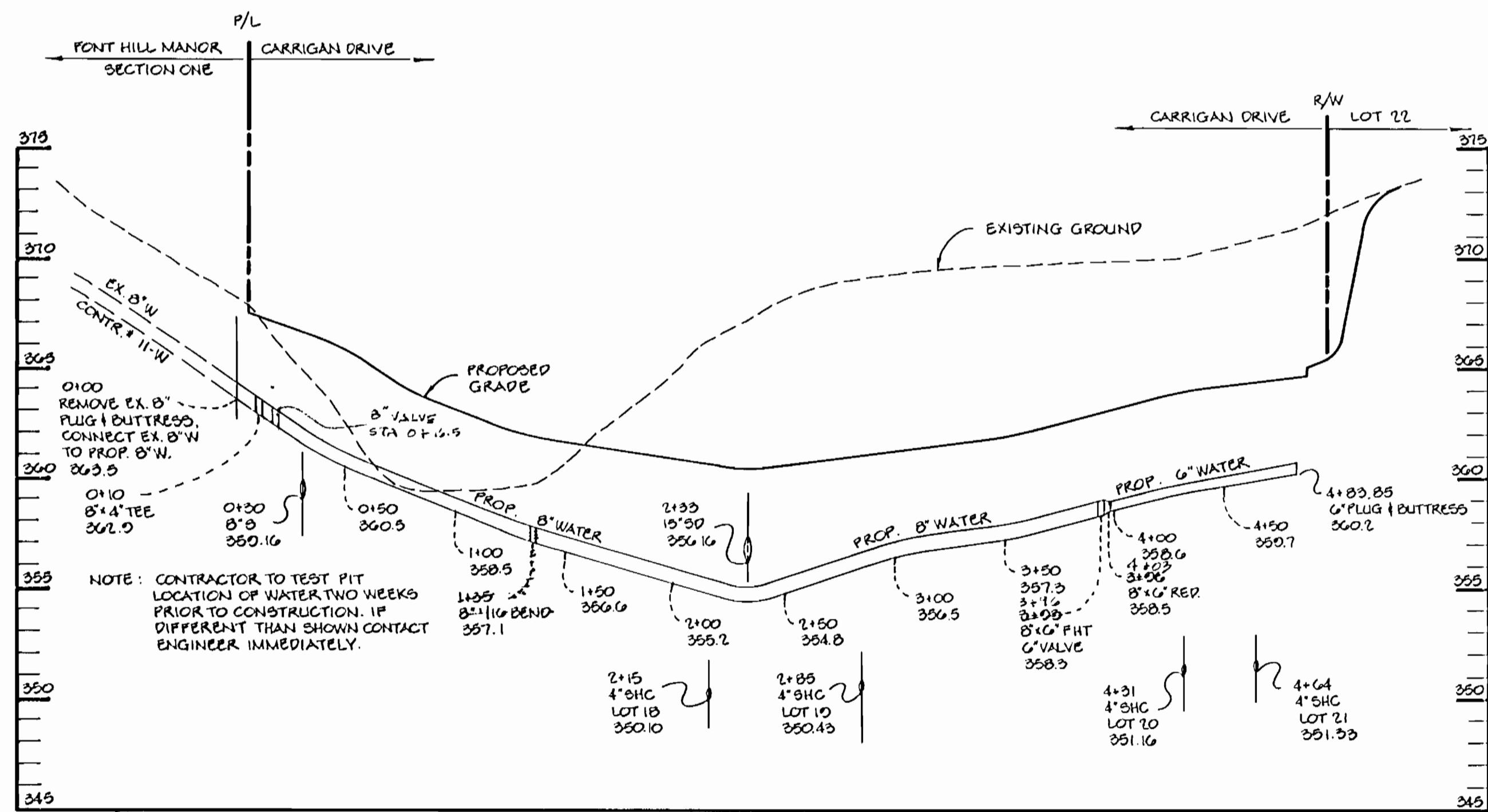
LITTLE PATUXENT RIDGE  
SECTION 2 LOTS 14-24  
TAX MAP 29 PARCEL 228  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3297-0

SCALE AS SHOWN  
SHEET 2 OF 3

AS-BUILT 11/10/94

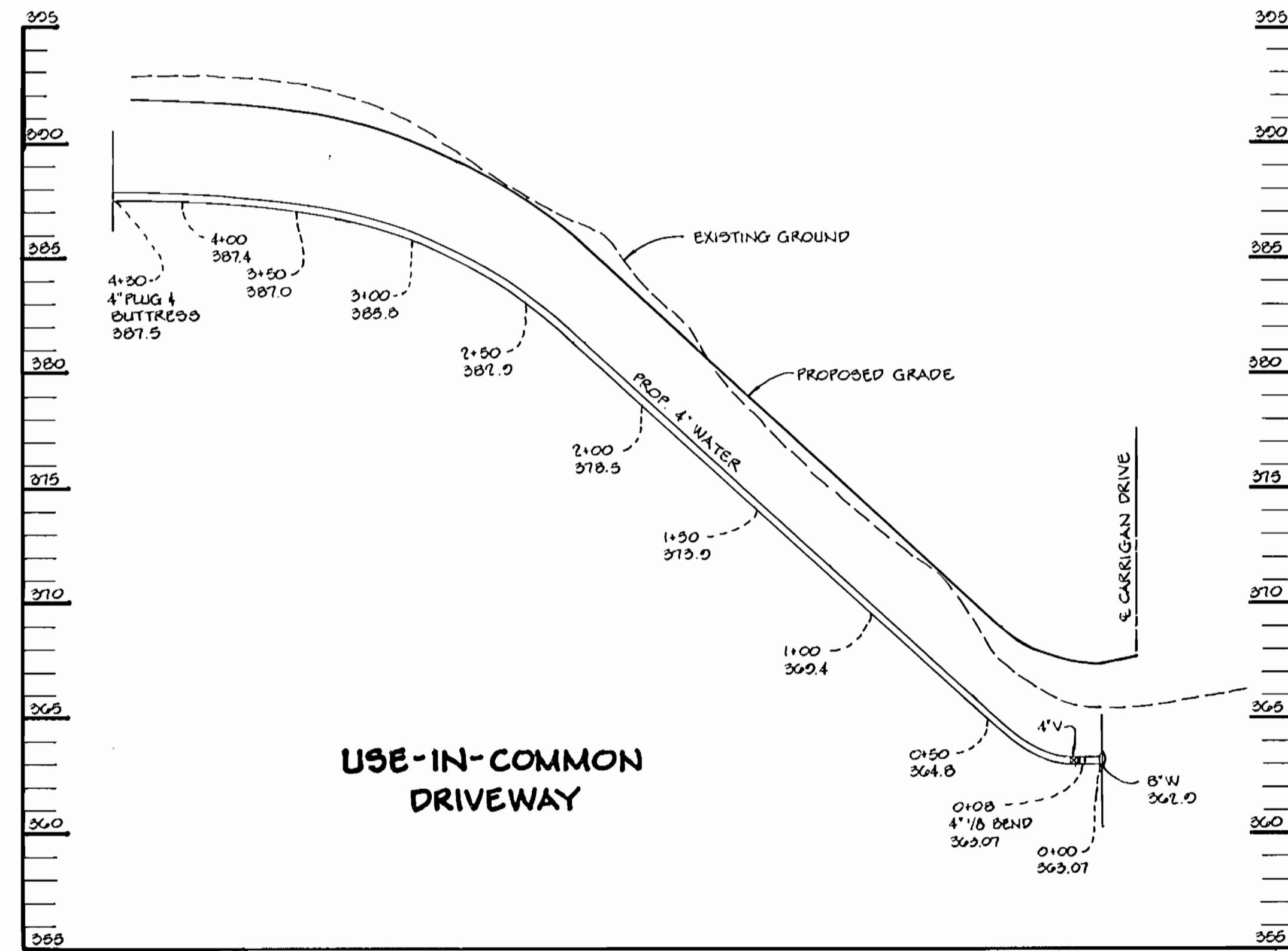
AS-BUILT 11/10/94

3297 ws/3 LITTLE PATUXENT RIDGE



WATER PROFILE

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



WATER PROFILE

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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James H. Shum* 11/2/93  
DIRECTOR OF PUBLIC WORKS DATE

*Robert M. Deane* 10-25-93  
CHIEF, BUREAU OF UTILITIES DATE

*Richard J. Reppan* 11/2/93  
CHIEF, BUREAU OF ENGINEERING DATE

*Mark Deacon* 11/2/93  
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.  
Planners • Engineers • Surveyors  
8818 Centre Park Drive Suite 200 Columbia, Md  
410-997-8900 FAX: 410-997-9282

*J. Parekh*  
JAYRANT D. PAREKH # 19148

DES: D.B.S.			
DRN: D.B.S.			
CHK: D.R.F.			
DATE: 9-1-93			
BY: JCO	1	CHANGE LOT 18 CWC TO SHC	1-5-94
NO.		REVISION	DATE

WATER MAIN PROFILES

600' SCALE MAP NO. 24 BLOCK NO. 8

LITTLE PATUXENT RIDGE  
SECTION 2 LOTS 14-24  
TAX MAP 29 PARCEL 228  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
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SCALE AS SHOWN

SHEET 3 OF 3

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