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PROPOSED PUBLIC WATER & PUBLIC SEWER MAIN


SCOTS GLEN SOUTH

5th ELECTION DISTRICT, TAX MAP 35, GRID 17

HOWARD COUNTY, MARYLAND 21044

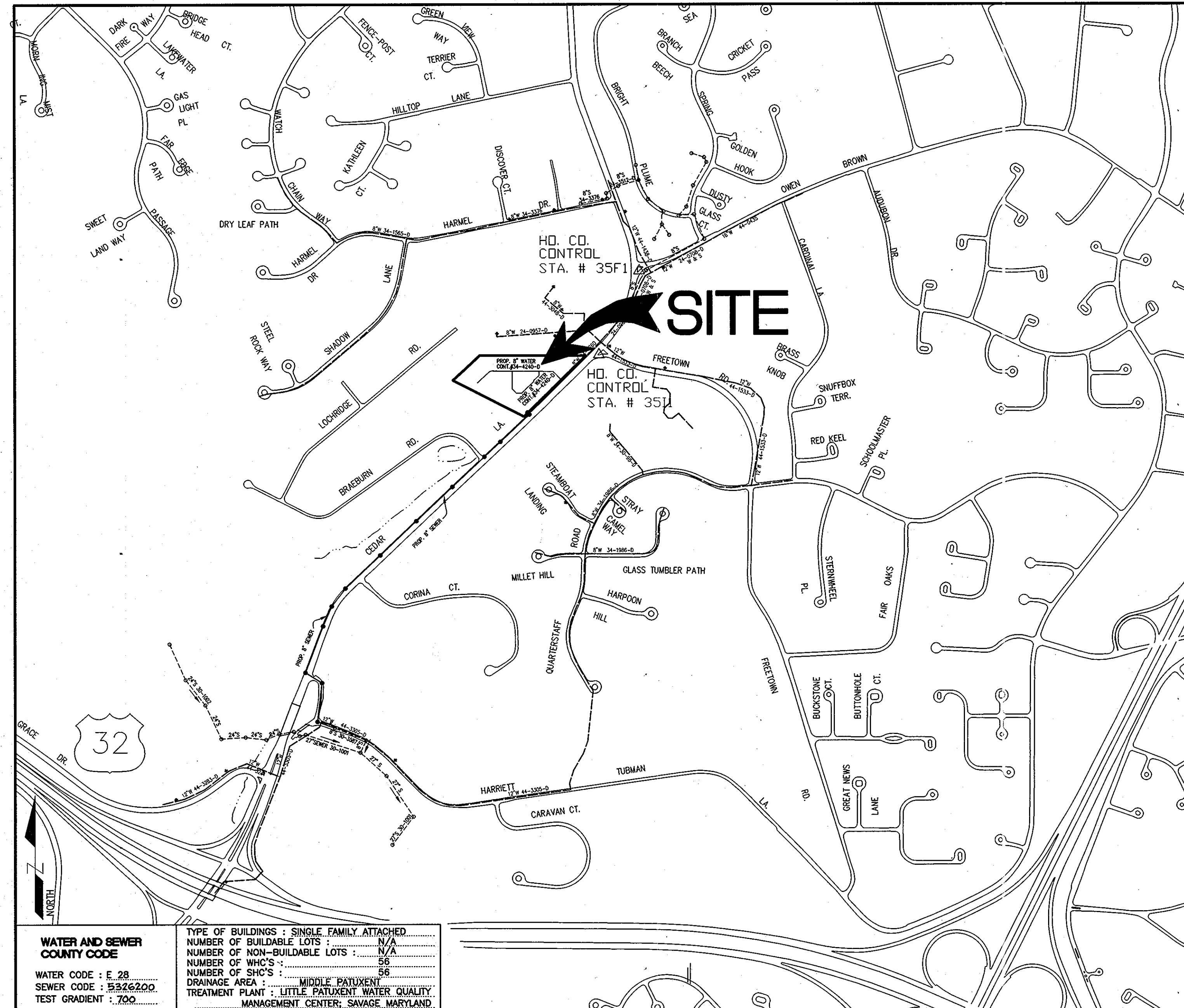
GENERAL NOTES :

PART I

- 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 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. 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 monies 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 (5) working days before starting work shown on these plans:

AT&T	1-800-252-1133
BGE Contractor Services	410-850-4620
BGE Under Ground Damage Control	410-291-4607
Bureau of Utilities	410-313-4900
Colonial Pipeline Company	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033 / 410-224-9210
- 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 (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 the DPW requirements per Section 18.114(a) of the Howard County Code.
- 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 and covers, Standard Detail G5.52. Where watertight 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.
- 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 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 the 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.
- For sprinkler system for all townhomes or multi-family dwelling units will have a 1" connection with a 3/4" inside meters.

ITEMS	QUANTITIES		AS-BUILT	
	QUANTITIES ESTIMATED		QUANTITIES	TYPE MANUF./SUPPLIER
12" WATER	188 L.F.			
8" WATER	1215 L.F.			
6" WATER	220 L.F.			
1" WHC	555 L.F.			
FIRE HYDRANTS	4 EACH			
8" VALVES	7 EACH			
6" VALVES	3 EACH			
8"x8" TEE	2 EACH			
8"x6" TEE	4 EACH			
8" PLUG & BUTTRESS	1 EACH			
12"x8" TEE	1 EACH			
12" VALVE	1 EACH			
12" PLUG & BUTTRESS	1 EACH			
12" TAPPING SLEEVE	1 EACH			
8" SEWER	3425 L.F.			
MANHOLES	13 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				



WATER AND SEWER COUNTY CODE WATER CODE : E 28 SEWER CODE : 5326200 TEST GRADIENT : 7.00	TYPE OF BUILDINGS : SINGLE FAMILY ATTACHED NUMBER OF BUILDABLE LOTS : N/A NUMBER OF NON-BUILDABLE LOTS : N/A NUMBER OF WHO'S : 56 NUMBER OF SHC'S : 56 DRAINAGE AREA : MIDDLE PATUXENT TREATMENT PLANT : LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER, SAVAGE, MARYLAND.
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VICINITY MAP
SCALE : 1" = 600'

UTILITY NOTE

Notify "Miss Utility" at 1-800-257-7777 - 48 hours prior to doing any excavation in this area.

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

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
BALTIMORE GAS & ELECTRIC CO.	410-850-4620
CONTRACTOR SERVICES	410-850-4620
BALTIMORE GAS & ELECTRIC CO.	410-787-9088
UNDERGROUND DAMAGE CONTROL	1-800-257-7777
MISS UTILITY	410-795-1390
COLONIAL PIPELINE CO	410-795-1390
HOWARD COUNTY DEPT. OF PUBLIC WORKS	410-313-4900
BUREAU OF UTILITIES	410-313-2640
HO CO. ENVIRONMENTAL HEALTH DPT	410-313-2640

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim Meyer 3/10/05
DATE

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

John P. Roberts 3/10/05
DATE

OWNER / DEVELOPER :

Freetown PSC, LLC.
6259 Cardinal Lane
Columbia, Md. 21044

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth Berman 3-19-05
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John P. Roberts 3/10/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PREPARED BY :

American Land Development and Engineering, Inc.
10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
TEL. (410) 465-7903 FAX. (410) 465-3845

John P. Roberts
PROFESSIONAL ENGINEER

DES. : DW/AG			
DRN. : AVG			
CHK. : DW			
DATE : 2-28-05	BY NO.	REVISIONS	DATE

COVER SHEET

600' SCALE MAP No. 35 BLOCK No. 17

SCOTS GLEN SOUTH

BUILDABLE BULK PARCEL "A" - UNITS 1 THRU 55 AND COMMUNITY CENTER
PLANNED SENIOR COMMUNITY (PSC) - AGE RESTRICTED ADULT HOUSING
A RESUBDIVISION OF PARCELS 224 AND 236
5th ELECTION DISTRICT, TAX MAP 35, GRID 17, HOWARD COUNTY, MD. 21044

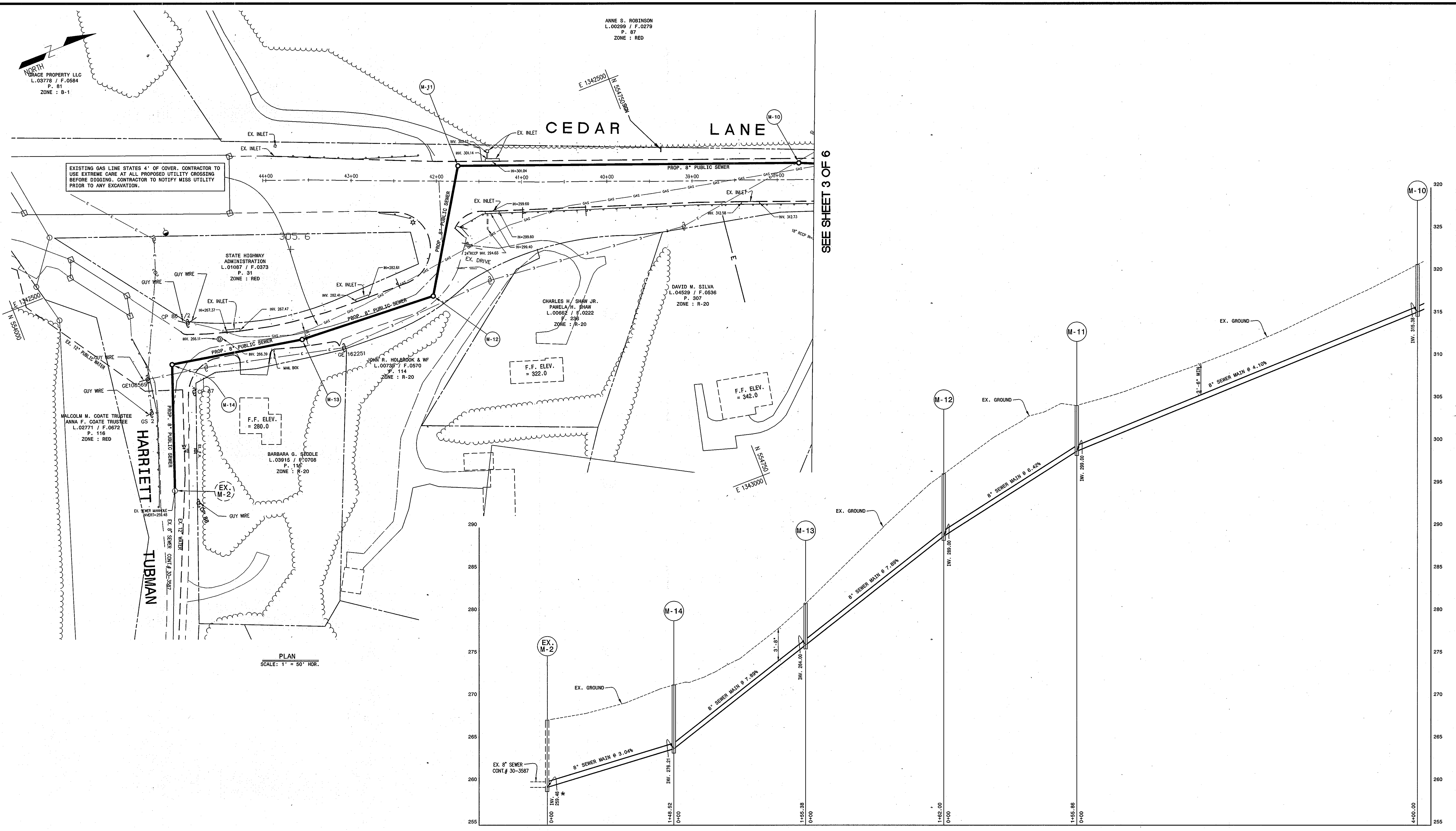
CONTRACT NO. : 34-4240-D SDP No. 04-162

SCALE : AS SHOWN
SHEET NO. 1 OF 6

I:\SUBDIVISION-PROJECTS\GEARVILLAS\CDAR VILLA II-FINAL\WATER & SEWER-V-2-SEWER.dwg, SHEET, 2/28/2005 11:32:04 AM, DWG

NORTH
 TRACE PROPERTY LLC
 L.03778 / F.0584
 P. 81
 ZONE : B-1

ANNE S. ROBINSON
 L.00299 / F.0279
 P. 87
 ZONE : RED



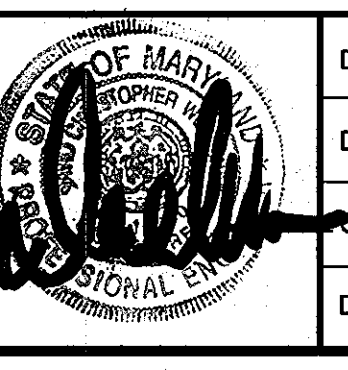
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

R. B. Berman 3-12-05
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Chad Dorman *skates*
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

PREPARED BY :
American Land Development and Engineering, Inc.
 10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163
 TEL. (410) 465-7903 FAX. (410) 465-3845



DES. : DW/AG	DRN. : AVG	CHK. : DW	DATE: 2-28-05
BY NO.	REVISIONS	DATE	600' SCALE MAP No. 35

SEWER MAIN PLAN

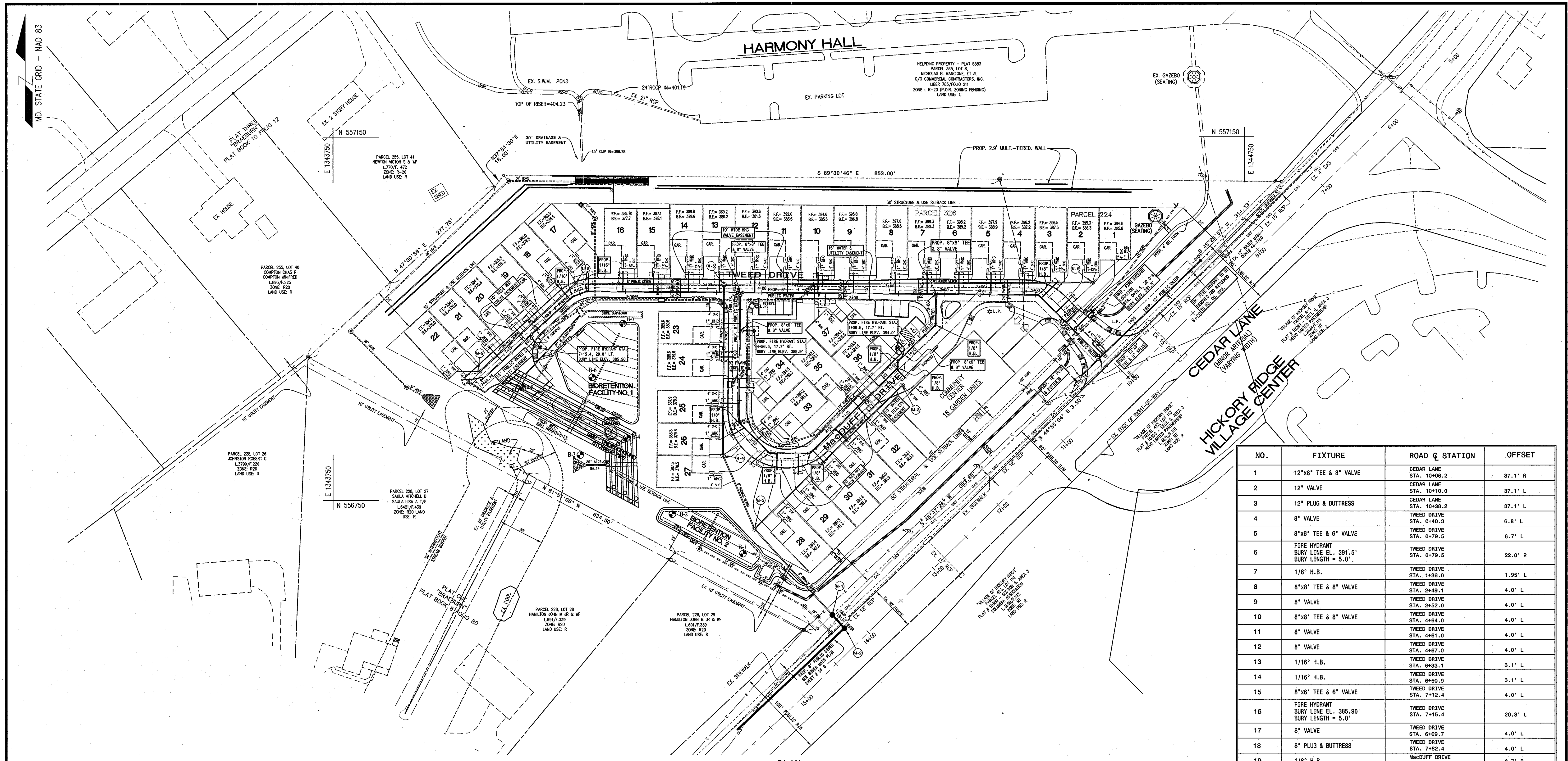
BLOCK No. 17

SCOTS GLEN SOUTH
 BUILDABLE BULK PARCEL "A" - UNITS 1 THRU 55 AND COMMUNITY CENTER
 PLANNED SENIOR COMMUNITY (PSC) - AGE RESTRICTED ADULT HOUSING
 A RESUBDIVISION OF PARCELS 224 AND 326
 5th ELECTION DISTRICT, TAX MAP 35, GRID 17, HOWARD COUNTY, MD. 21044

CONTRACT NO. : 34-4240-D

SCALE :
 1" = 50'
 SHEET NO.
 4 OF 6

I:\SUBDIVISION-PROJECTS\CEDARVILLE\CEDAR VILLA II-FINAL\WATER & SEWER\1-2-SEWER.dwg, SHEET 4, 2/28/2005 11:35:41 AM, guz



NO.	FIXTURE	ROAD C STATION	OFFSET
1	12"x8" TEE & 8" VALVE	CEDAR LANE STA. 10+08.2	37.1' R
2	12" VALVE	CEDAR LANE STA. 10+10.0	37.1' L
3	12" PLUG & BUTTRESS	CEDAR LANE STA. 10+38.2	37.1' L
4	8" VALVE	TWEED DRIVE STA. 0+40.3	6.8' L
5	8"x6" TEE & 6" VALVE	TWEED DRIVE STA. 0+79.5	6.7' L
6	FIRE HYDRANT BURY LINE EL. 391.5' BURY LENGTH = 5.0'	TWEED DRIVE STA. 0+79.5	22.0' R
7	1/8" H.B.	TWEED DRIVE STA. 1+36.0	1.95' L
8	8"x8" TEE & 8" VALVE	TWEED DRIVE STA. 2+49.1	4.0' L
9	8" VALVE	TWEED DRIVE STA. 2+52.0	4.0' L
10	8"x8" TEE & 8" VALVE	TWEED DRIVE STA. 4+64.0	4.0' L
11	8" VALVE	TWEED DRIVE STA. 4+61.0	4.0' L
12	8" VALVE	TWEED DRIVE STA. 4+67.0	4.0' L
13	1/16" H.B.	TWEED DRIVE STA. 6+33.1	3.1' L
14	1/16" H.B.	TWEED DRIVE STA. 6+50.9	3.1' L
15	8"x6" TEE & 6" VALVE	TWEED DRIVE STA. 7+12.4	4.0' L
16	FIRE HYDRANT BURY LINE EL. 385.90' BURY LENGTH = 5.0'	TWEED DRIVE STA. 7+15.4	20.8' L
17	8" VALVE	TWEED DRIVE STA. 6+69.7	4.0' L
18	8" PLUG & BUTTRESS	TWEED DRIVE STA. 7+62.4	4.0' L
19	1/8" H.B.	MacDUFF DRIVE STA. 0+60.6	6.7' R
20	8"x6" TEE & 6" VALVE	MacDUFF DRIVE STA. 1+08.5	7.0' R
21	FIRE HYDRANT BURY LINE EL. 394.0' BURY LENGTH = 5.0'	MacDUFF DRIVE STA. 1+08.5	17.7' R
22	1/8" H.B.	MacDUFF DRIVE STA. 1+19.4	7' R
23	1/8" H.B.	MacDUFF DRIVE STA. 1+23.8	1.7' R
24	1/8" H.B.	MacDUFF DRIVE STA. 2+58.6	0.5' L
25	1/8" H.B.	MacDUFF DRIVE STA. 3+05.0	2.5' R
26	1/8" H.B.	MacDUFF DRIVE STA. 3+55.7	0.1' R
27	8"x6" TEE & 6" VALVE	MacDUFF DRIVE STA. 4+56.5	2.0' R
28	FIRE HYDRANT BURY LINE EL. 389.9' BURY LENGTH = 7.0'	MacDUFF DRIVE STA. 4+56.5	17.7' R
29	8" VALVE	MacDUFF DRIVE STA. 4+95.5	2.0' L

PLAN
SCALE: 1" = 50'

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Jim Murray 3/10/05
 U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Roberts 3/10/05
 HOWARD SCD DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	PREPARED BY: American Land Development and Engineering, Inc. 10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163 TEL. (410) 465-7903 FAX. (410) 465-3845	DES.: DW/AG DRN.: AVG CHK.: DW DATE: 2-28-05	WATER MAIN PLAN		SCOTS GLEN SOUTH BUILDABLE BULK PARCEL "A" - UNITS 1 THRU 55 AND COMMUNITY CENTER PLANNED SENIOR COMMUNITY (PSC) - AGE RESTRICTED ADULT HOUSING A RESUBDIVISION OF PARCEL 224 AND 326 5th ELECTION DISTRICT, TAX MAP 35, GRID 17 HOWARD COUNTY, MD. 21044 CONTRACT NO. : 34-4240-D	SCALE : 1" = 50' SHEET NO. 5 OF 6
<i>Robert R. ...</i> 3-17-05 CHIEF, BUREAU OF UTILITIES	<i>Michael ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION		BY NO. _____	REVISIONS _____	DATE _____	600' SCALE MAP No. 35	BLOCK No. 17

I:\SUBDIVISION-PROJECTS\CEDARVILLE\AS\CEDAR VILLA II-FINAL\WATER & SEWER\WATERMAIN\PROFILES.dwg, WATER PLAN, 2/28/2005 11:28:42 AM, g02

