

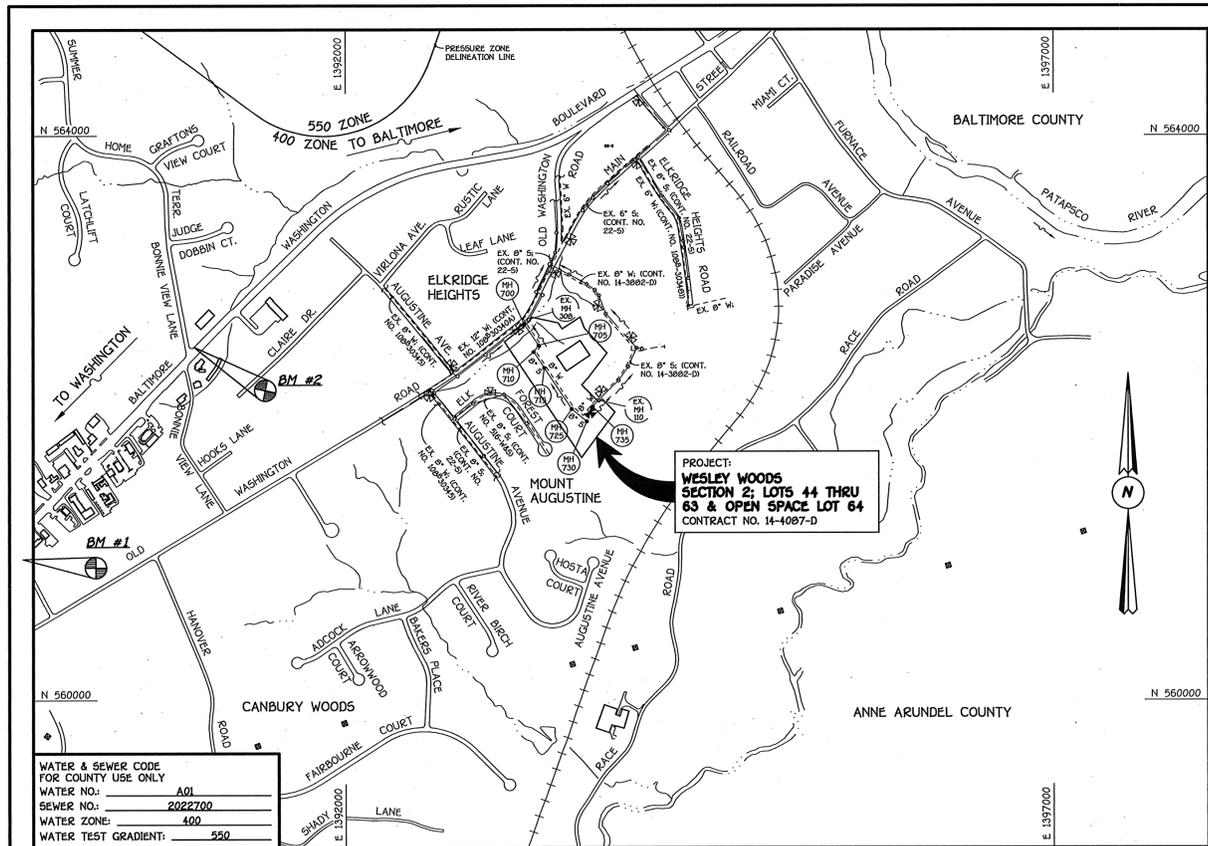
QUANTITIES		AS-BUILT		
ITEM	ESTIMATED	QUANTITIES	TYPE	SUPPLIER
8" WATER	984.54 L.F.			
6" WATER	17.00 L.F.			
1" WHC	609.00 L.F.			
OUTSIDE METER SETTING	1 EACH			
FIRE HYDRANTS	1 EACH			
8" SEWER	906.63 L.F.			
4" SEWER	494.00 L.F.			
MANHOLES	Ø EACH			

NAME OF UTILITY CONTRACTOR:
SURVEY & DRAFTING DIVISION AS-BUILT DATE:

BENCHMARK INFORMATION

BM.#1 - HOWARD COUNTY CONTROL STATION *30A9
N 561227.617
E 1389,810.581
ELEVATION = 223.43

BM.#2 - HOWARD COUNTY CONTROL STATION *30BA
N 562,624.749
E 1,391,144.242
ELEVATION = 166.94



TYPE OF BUILDING: RESIDENTIAL - SINGLE FAMILY DETACHED
NUMBER OF LOTS & PARCELS: 22 (21 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS: 21
NO. OF SEWER HOUSE CONNECTIONS: 21
DRAINAGE AREA: PATAPSCO
TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE

PLAN REFERENCE NUMBERS:
501-26 P03-06 F04-54

VICINITY MAP

SCALE: 1"=600'

GENERAL NOTES

PART I

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. 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, NAD 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 83.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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 DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T 1-800-252-1133
BGE (CONTRACTOR SERVICES) 410-850-4620
BGE (UNDERGROUND DAMAGE CONTROL) 410-787-9068
BUREAU OF UTILITIES 410-313-4900
COLONIAL PIPELINE CO 410-795-1390
MISS UTILITY 1-800-257-7777
STATE HIGHWAY ADMINISTRATION 410-531-5533
VERIZON 1-800-743-0033/410-224-9210

PART II: WATER

- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. (See Profile)
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

PART III: SEWER

- 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE 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 THE CELLAR CANNOT BE SERVED.

DEVELOPER'S CERTIFICATION

" I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER _____ DATE _____

ENGINEER'S CERTIFICATION

" I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER _____ DATE _____

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Meyer 10/12/04
U.S.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED:
John F. Johnson 10/12/04
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON F04-54 & ON THESE PLANS.

SIGNATURE OF DEVELOPER _____ DATE _____

CONTRACT NO. 14-4087-D
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 AND OPEN SPACE LOT 64
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4087-D
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 1977 BALTIMORE NATIONAL FREE
ELICOTT CITY, MARYLAND 21042
(410) 461-2855



DESIGNED BY:	M.D.T.				
DRAWN BY:	D.Y.B.				
CHECKED BY:	P.W.K.				
DATE:	OCTOBER, 2004	BY:	NO.	REVISION	DATE

**WATER AND SEWER MAINS
TITLE SHEET**

600' SCALE MAP NO. 30 BLOCK NO. 4
F.C.C. WORK ORDER NO. 6113
FILE NAME: FINAL WATER AND SEWER TITLE SH

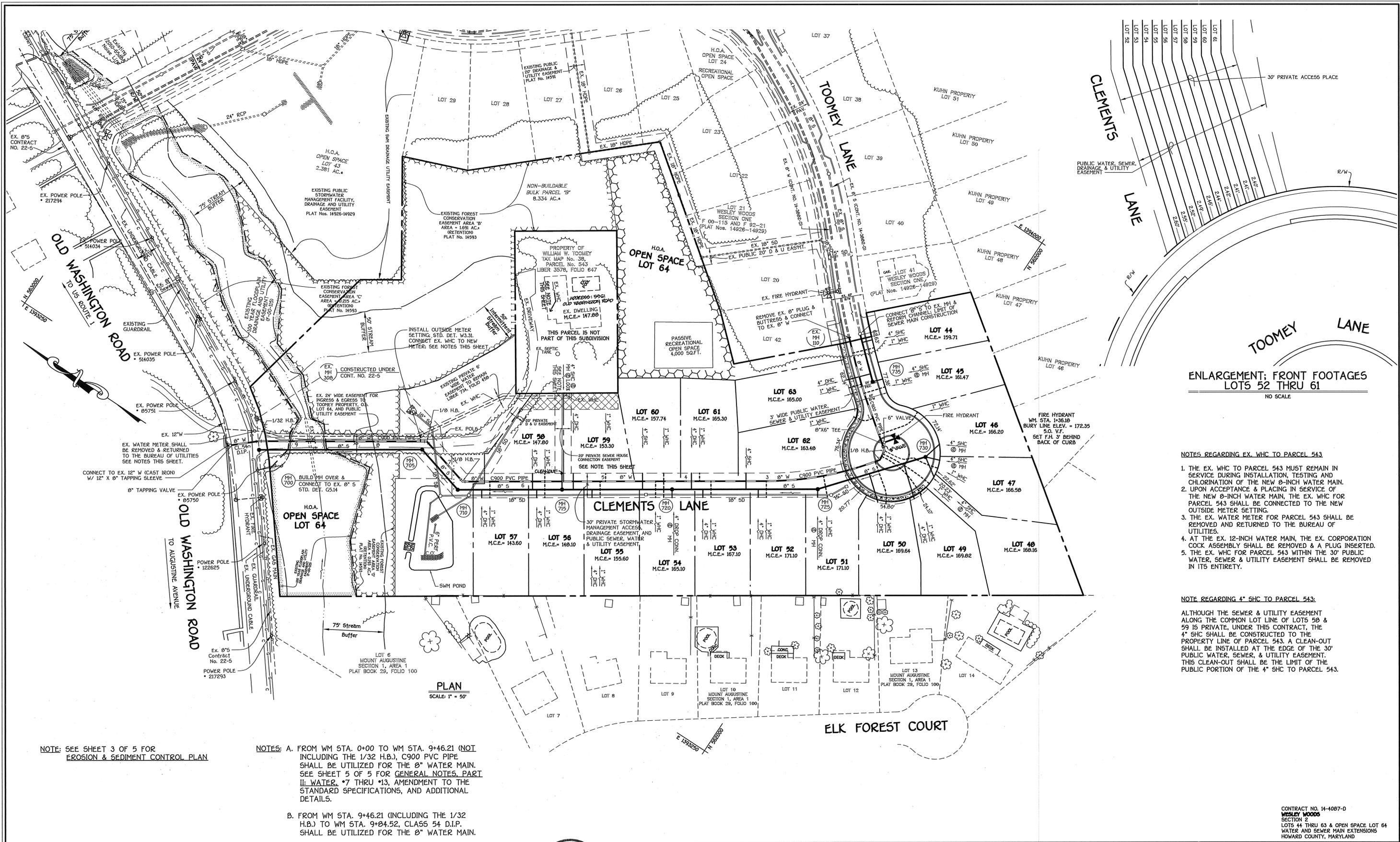
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
CONTRACT NO. 14-4087-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
1 OF 5

Ruth Berman 10-28-04
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 11/1/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



**ENLARGEMENT; FRONT FOOTAGES
LOTS 52 THRU 61**
NO SCALE

- NOTES REGARDING EX. WHC TO PARCEL 543**
1. THE EX. WHC TO PARCEL 543 MUST REMAIN IN SERVICE DURING INSTALLATION, TESTING AND CHLORINATION OF THE NEW 8-INCH WATER MAIN.
 2. UPON ACCEPTANCE AND PLACING IN SERVICE OF THE NEW 8-INCH WATER MAIN, THE EX. WHC FOR PARCEL 543 SHALL BE CONNECTED TO THE NEW OUTSIDE METER SETTING.
 3. THE EX. WATER METER FOR PARCEL 543 SHALL BE REMOVED AND RETURNED TO THE BUREAU OF UTILITIES.
 4. AT THE EX. 12-INCH WATER MAIN, THE EX. CORPORATION COCK ASSEMBLY SHALL BE REMOVED & A PLUG INSERTED.
 5. THE EX. WHC FOR PARCEL 543 WITHIN THE 30' PUBLIC WATER, SEWER & UTILITY EASEMENT SHALL BE REMOVED IN ITS ENTIRETY.

NOTE REGARDING 4" SHC TO PARCEL 543:
ALTHOUGH THE SEWER & UTILITY EASEMENT ALONG THE COMMON LOT LINE OF LOTS 58 & 59 IS PRIVATE, UNDER THIS CONTRACT, THE 4" SHC SHALL BE CONSTRUCTED TO THE PROPERTY LINE OF PARCEL 543. A CLEAN-OUT SHALL BE INSTALLED AT THE EDGE OF THE 30' PUBLIC WATER, SEWER & UTILITY EASEMENT. THIS CLEAN-OUT SHALL BE THE LIMIT OF THE PUBLIC PORTION OF THE 4" SHC TO PARCEL 543.

NOTE: SEE SHEET 3 OF 5 FOR EROSION & SEDIMENT CONTROL PLAN

NOTES: A. FROM WM STA. 0+00 TO WM STA. 9+46.21 (NOT INCLUDING THE 1/32 H.B.), C900 PVC PIPE SHALL BE UTILIZED FOR THE 8" WATER MAIN. SEE SHEET 5 OF 5 FOR GENERAL NOTES, PART II: WATER. *7 THRU *13, AMENDMENT TO THE STANDARD SPECIFICATIONS, AND ADDITIONAL DETAILS.

B. FROM WM STA. 9+46.21 (INCLUDING THE 1/32 H.B.) TO WM STA. 9+04.52, CLASS 54 D.I.P. SHALL BE UTILIZED FOR THE 8" WATER MAIN.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 1972 BALTIMORE NATIONAL FEE
ELLCOTT CITY, MARYLAND 21142
(410) 461-2955



DESIGNED BY:	P.W.K.
DRAWN BY:	D.Y.B.
CHECKED BY:	P.W.K.
DATE:	OCTOBER, 2004
BY:	NO.
REVISION:	

**WATER AND SEWER MAINS
PLAN**

600' SCALE MAP NO. 30 BLOCK NO. 4
F.C.C. WORK ORDER NO. 6113
DATE FILE NAME: FINAL WATER AND SEWER PLAN SHZ

WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
CONTRACT NO. 14-4087-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

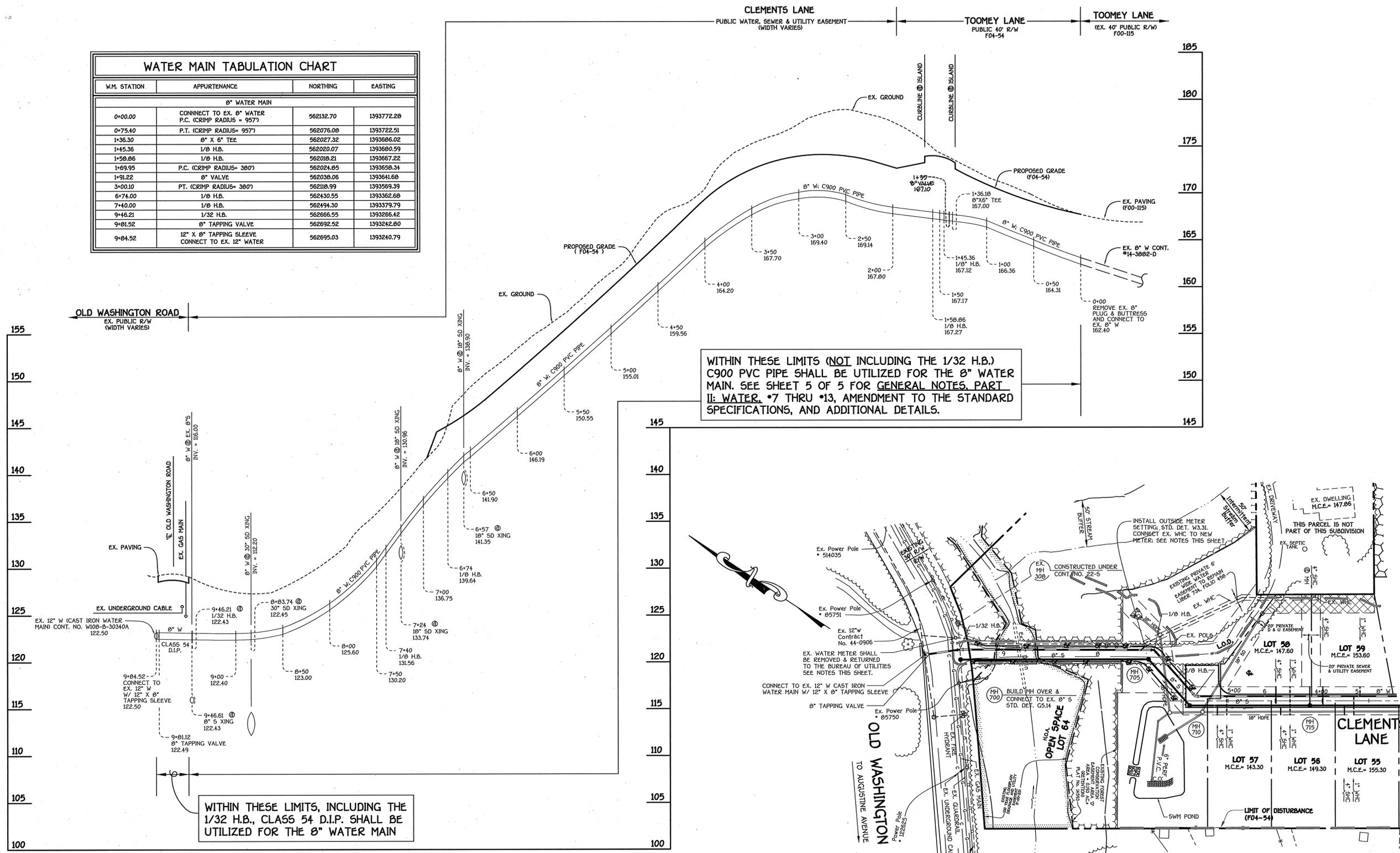
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SHOWN
SHEET
2 OF 5

Robert B. ... 10-29-04
DATE

[Signature] 11/1/04
DATE

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WATER MAIN TABULATION CHART			
W.M. STATION	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN			
0+00.00	CONNECT TO EX. 8" WATER P.C. (CRIMP RADIUS = 957')	562132.70	1393772.28
0+75.40	P.T. (CRIMP RADIUS = 957')	562075.08	1393722.51
1+36.30	8" X 6" TEE	562027.32	1393686.02
1+45.36	1/8" H.B.	562020.07	1393680.59
1+58.86	1/8" H.B.	562018.21	1393667.22
1+69.95	P.C. (CRIMP RADIUS = 380')	562024.85	1393658.34
1+91.22	8" VALVE	562038.06	1393641.68
3+00.10	P.T. (CRIMP RADIUS = 380')	562118.99	1393569.39
6+74.00	1/8" H.B.	562430.55	1393362.68
7+40.00	1/8" H.B.	562494.30	1393379.79
9+46.21	1/32" H.B.	562666.55	1393266.42
9+81.52	8" TAPPING VALVE	562692.52	1393242.80
9+84.52	12" X 8" TAPPING SLEEVE CONNECT TO EX. 12" WATER	562695.03	1393240.79

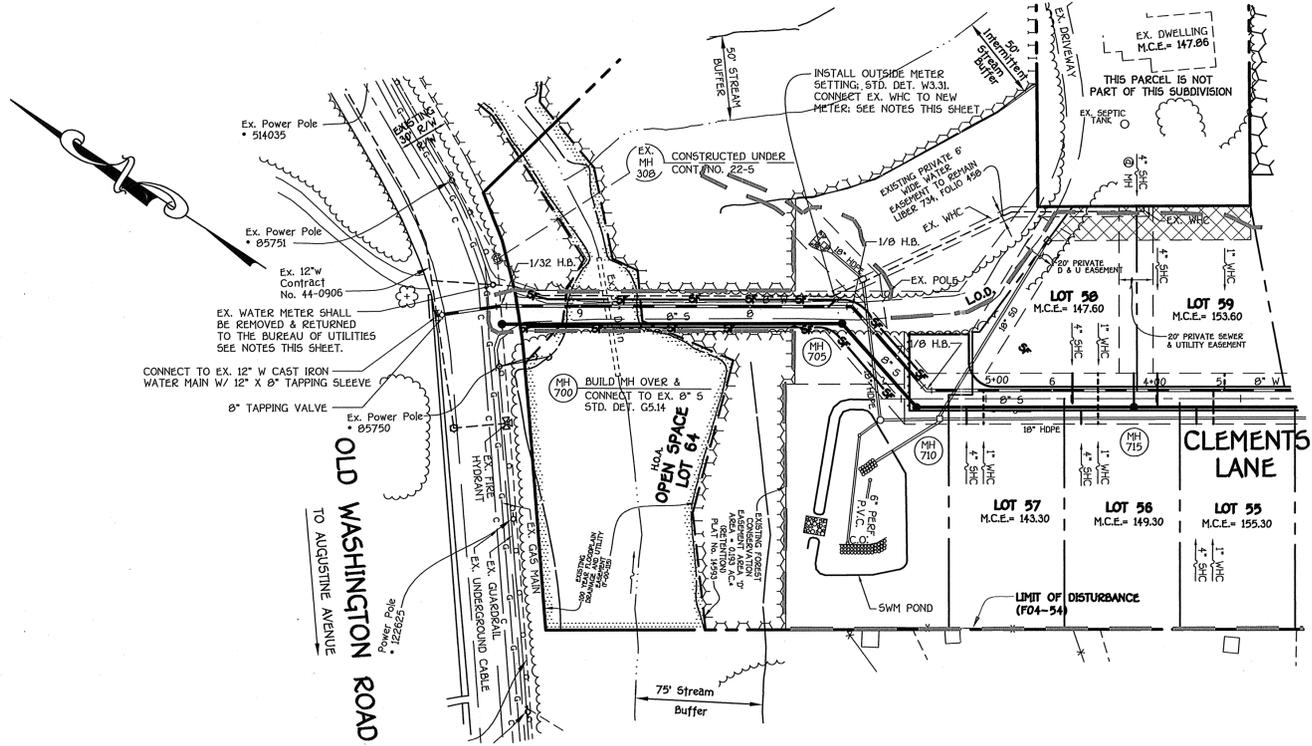


WITHIN THESE LIMITS (NOT INCLUDING THE 1/32" H.B.) C900 PVC PIPE SHALL BE UTILIZED FOR THE 8" WATER MAIN. SEE SHEET 5 OF 5 FOR GENERAL NOTES, PART II: WATER, *7 THRU *13, AMENDMENT TO THE STANDARD SPECIFICATIONS, AND ADDITIONAL DETAILS.

WITHIN THESE LIMITS, INCLUDING THE 1/32" H.B., CLASS 54 D.I.P. SHALL BE UTILIZED FOR THE 8" WATER MAIN

8" WATER MAIN: CLEMENTS LANE; TOOMEY LANE TO OLD WASHINGTON ROAD

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



EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'

CONTRACT NO. 14-4087-D
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTURIAL SQUARE OFFICE PARK - 10725 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2855



DESIGNED BY:	D.Y.B.		
DRAWN BY:	D.Y.B.		
CHECKED BY:	P.W.K.		
DATE:	OCTOBER, 2004	BY NO.	
REVISION		DATE	

WATER MAIN PROFILE	
600' SCALE MAP NO. 30	BLOCK NO. 4
F.C.C. WORK ORDER NO. 6113	
FILE NAME: FINAL WATER MAIN PROFILE SHIT 3	

WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
CONTRACT NO. 14-4087-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
SHEET 3 OF 5

K:\Drawings\861113 Toomey\WATSEV\Section 2\Final\861113 Water and Sewer Main Profiles Sh.dwg, 9/30/2004 6:26:05 PM

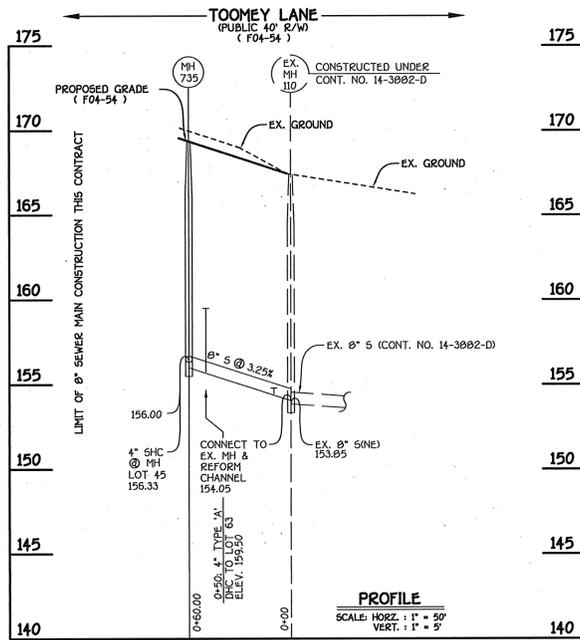
MANHOLE TABULATION CHART

NO.	NORTHING	EASTING	RIM ELEVATION
700	562660.32	1393257.70	128.57
705	562493.72	1393368.24	135.70
710	562430.00	1393351.05	145.70
715	562323.34	1393421.81	155.80
720	562210.85	1393496.45	167.50
725	562061.83	1393595.32	173.53
730	561973.51	1393701.35	171.99
735	562078.75	1393742.84	169.39

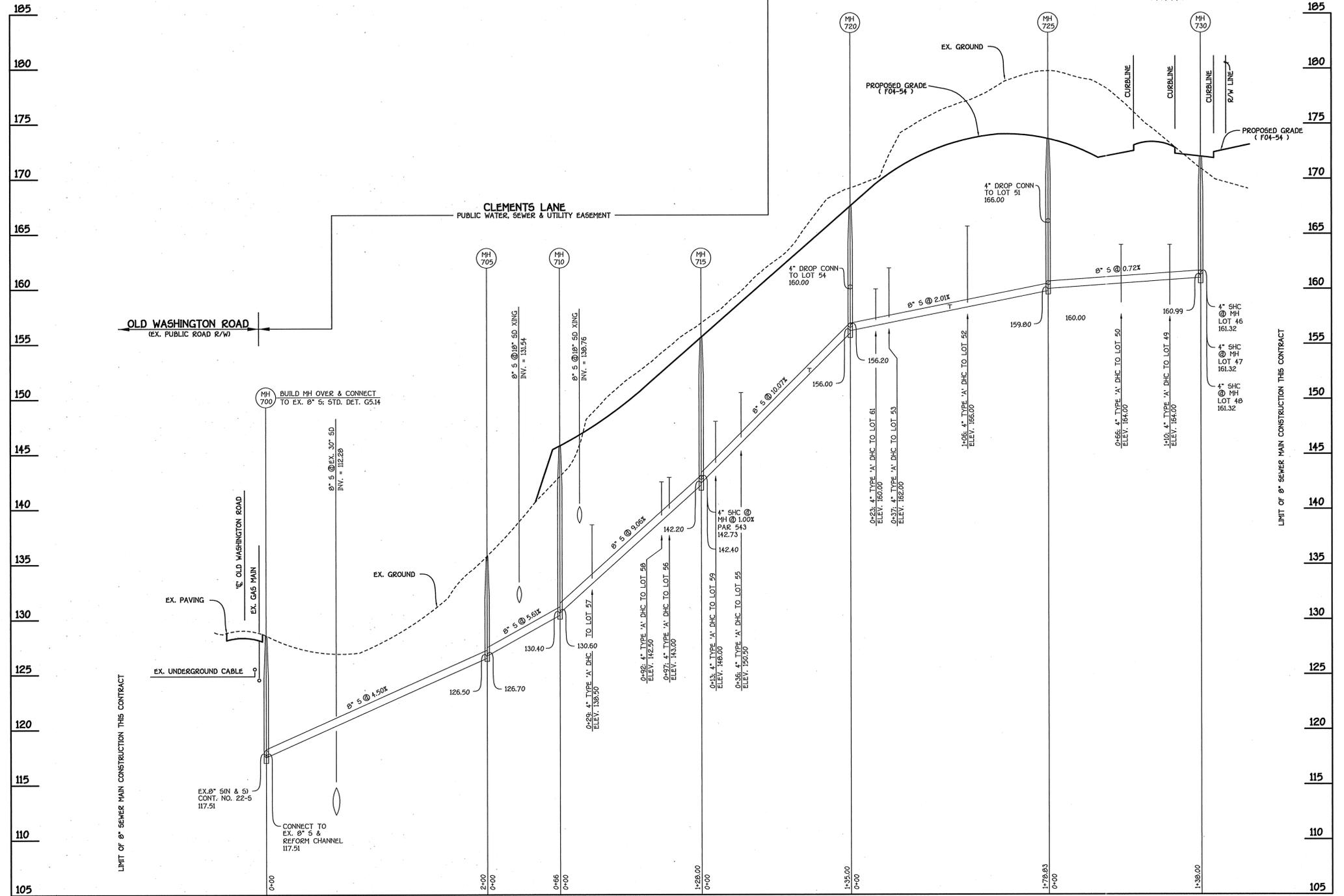
NOTE: SET ALL MH RIMS FLUSH W/ PROPOSED FINISHED GRADE OR EXISTING GROUND AS APPLICABLE

SHC INVERT @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
MH 710 TO MH 715		
0+29 RT.	57 (DHC)	138.70
0+92 LT.	58 (DHC)	142.90
0+97 RT.	56 (DHC)	143.20
④ MH 715 LT.	PARCEL 543 (SHC @ MH @ 1.00%)	142.93
MH 715 TO MH 720		
0+13 LT.	59 (DHC)	148.40
0+36 RT.	55 (DHC)	150.70
0+98 LT.	60	152.84
④ MH 720 RT.	54 (DROP CONN @ MH)	160.20
MH 720 TO MH 725		
0+23 LT.	61 (DHC)	160.40
0+37 RT.	53 (DHC)	162.20
0+90 LT.	62	158.58
1+06 RT.	52 (DHC)	166.20
④ MH 725 RT.	51 (DROP CONN. @ MH)	166.20
MH 725 TO MH 730		
0+66 RT.	50 (DHC)	164.74
1+10 RT.	49 (DHC)	164.92
④ MH 730 RT.	48 (SHC @ MH)	161.86
④ MH 730 CTR.	47 (SHC @ MH)	161.68
④ MH 730 LT.	46 (SHC @ MH)	161.80
EX. MH 110 TO MH 735		
0+10 LT.	44	154.81
0+50 RT.	63 (DHC)	160.10
④ MH 735 LT.	45 (SHC @ MH)	156.57



8" SEWER MAIN: TOOMEY LANE



8" SEWER MAIN: CLEMENTS LANE; TOOMEY LANE TO OLD WASHINGTON ROAD

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

CONTRACT NO. 14-4087
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
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ELLSWORTH CITY, MARYLAND 21842
(410) 481-2055



DESIGNED BY:	D.Y.B.
DRAWN BY:	D.Y.B.
CHECKED BY:	P.W.K.
DATE:	OCTOBER, 2004
BY NO.	
REVISION	

SEWER MAIN
PROFILES

600' SCALE MAP NO.	38	BLOCK NO.	4
F.C.C. WORK ORDER NO.	61113		
FILE NAME:	FINAL SEWER MAIN PROFILE SHIT 4		

WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
CONTRACT NO. 14-4087
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
4 OF 5

Chief, Bureau of Utilities
10-28-04

Chief, Development Engineering Division
11/10/04

GENERAL NOTES, PART II: WATER 15 AMENDED TO INCLUDE THE FOLLOW NOTES 7 THROUGH 13:

7. All ductile iron pipes to be used on the public water system shall be class 54. Ductile iron fittings shall meet the requirements of the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction and shall be exterior epoxy coated in accordance with AWWA C116.
8. All water house connections shall be copper meeting the requirements of and constructed in accordance with the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction.
9. All fire hydrant leads including the tee shall be ductile iron class 54 meeting the requirements of and constructed in accordance with the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction.
10. All water mains constructed in fill areas shall be restrained ductile iron pipe class 54 meeting the requirements of and constructed in accordance with the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction.
11. All water mains within casing pipes shall be restrained ductile iron pipe class 54 meeting the requirements of and constructed in accordance with the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction.
12. The following note is added to Howard County Standard Detail W2.22, Buttresses and Anchorages for Vertical Bends: "When anchoring PVC pipe, the strapping in contact with the pipe surface shall be 1/4-inch wide by 1/4-inch thick steel. The remaining portion of the strap shall be reinforcing bar sized in accordance with the pertinent chart shown on the detail."
13. From WM STA. 0+00 to WM STA. 9+46.21 (N.O.I. including the 1/32 h.b.), the water main shall be polyvinylchloride (PVC) pipe meeting the requirements of AWWA C900 DR10, pressure Class 150 and the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction and all subsequent amendments thereto.

AMENDMENT TO THE HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION

Except as indicated herein, all work shall be in accordance with the pertinent sections of the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction, Article 9, Sections 909 Nonmetallic Pipes and Drainage Tiles and Article 10, Section 1002 Water Mains of the Howard County Standard Specifications are amended to include the following requirements.

GENERAL

1. Polyvinylchloride (PVC) pipe and couplings shall be homogeneous throughout and free from visible cracks, bubbles, holes, foreign inclusions, cuts, or scrapes on inside or outside surfaces, or other imperfections, which may impair the performance or life of the pipe. Each pipe shall be straight to within 1-1/4-inch per 20-foot length of pipe when uniformly supported along its entire length, and shall have a true circular cross-section to within ± 1/64 inch.
2. PVC pipe manufactured more than six months prior to work site inspection will not be accepted.
3. Loading, unloading, handling, inspection and storage of PVC pipe and fittings shall be in accordance with AWWA C605. PVC pipe shall be stored such that it does not deform or bend.
4. Submittals: The followings items shall be submitted for review and approval prior to installation. Materials not approved will not be accepted.
 - a. PVC Pipe: Submit manufacturer's literature and certificates of compliance for PVC pipe along with the manufacturer's identification codes for nominal size, dimension ratio, pressure class, production record code and date of manufacture. Submit manufacturer's written transcript of test results, for sustained pressure, pipe dimension, burst pressure, flattening resistance, and extrusion quality test. Frequency of performing the tests and the methods of selecting test specimens shall be in accordance with AWWA C900.
 - b. PVC Pipe Fittings: Submit manufacturer's literature and certificates of compliance for PVC pipe fittings along with the manufacturer's identification codes for nominal size, pressure class, production record code and date of manufacture. Submit manufacturer's written transcript of results for accelerated-regression test, burst pressure and heat-reversion test in accordance with AWWA C907.
 - c. Miscellaneous for PVC water pipe: Submit manufacturer's literature and certificates of compliance, for joint restraint devices, pipe couplings, tracer wire, wire connector splice kits, detection tape, and service saddles.
 - d. Submit manufacturer's installation instructions for PVC pipe and fittings, joint restraint devices, pipe couplings, wire connector splice kits, service saddles, and manufacturer's instructions for tapping pipe.

MATERIALS

The Engineer will inspect all materials before, during and after installation to ensure compliance with the Contract Documents. When specific tests of materials are called for in the referenced standards and specifications, the Engineer has the option of requiring that any or all of these tests be performed for the specified materials.

1. PVC pipe and fittings:
 - a. PVC pipe 4 inches through 12 inches in diameter shall be manufactured in 20-foot lengths in accordance with AWWA C900 with cast/ductile iron pipe equivalent outside diameters. Pipe shall have a dimension ratio (DR) of 10, pressure class of 150 psi, and shall utilize elastomeric-gasketed push-on joints for joining pipes in accordance with AWWA C900. Pipe, gaskets, and gasket lubricant shall be suitable for potable water systems and shall meet NSF 61. All PVC pipe shall be factory marked on the spigot end for depth of insertion into the bell and factory tested in accordance with AWWA C900. PVC pipe shall be manufactured by one of the following:
 1. Uponor ETI
 2. J-M Pipe
 3. Diamond Plastics Corp.
 4. National Pipe and Plastics, Inc.
 - b. Fittings for use with PVC water mains shall be ductile iron in accordance with the Standard Specifications or PVC fittings. PVC fittings shall have push-on rubber gasketed joints, be injection-molded meeting AWWA C907, pressure class 150; or fabricated meeting AWWA C900, Class 200. PVC fittings shall be manufactured by the Harrington Corporation (Harco) or approved equal. Pipe joints shall be in accordance with the standards specified for the pipe and fittings.
 - c. Pipe couplings for PVC and ductile iron water mains shall be suitable for potable water service and shall have epoxy or nylon coated ductile iron center and end rings. Pipe couplings shall be Romac Style 501, Ford FC2W or approved equal.
2. Joint restraining materials for PVC pipe:
 Horizontal and vertical bands, tees, caps and fittings shall be buttressed or anchored in accordance with the Plans, the Standard Specifications and Details for Construction, or as directed by the Engineer. Valves, when connected to PVC pipe, shall be iron body resilient seat gate valves and anchored in accordance with the detail shown on the Plans and shall have one full length of pipe on each side of the valve.

- Joint restraints for harnessing joints shall be in accordance with the Standard Specifications and the requirements below:
- a. All joint restraint devices shall be Factory Mutual approved.
 - b. In restrained joints, PVC pipe shall not be deflected. If deflection is required in a restrained joint, use ductile iron pipe or fittings.
 - c. Where a restrained joint is required between PVC pipe and a fitting, the fitting shall be ductile iron mechanical joint. Joint restraint for this joint shall meet ASTM F1674 and shall be Uniflange Series 1500, EBA Iron Series 2000PV, or approved equal.
 - d. Where a restrained joint is required for PVC push-on joint, joint restraint shall be Uni-B-13, ICM 620 Sur-Grip, EBA Iron Series 1600, Uniflange Series 1390-C, or approved equal.
3. Tracer Wire for Non Metallic Pipelines: Tracer wire shall be 8-gauge, 7-strand continuous copper wire with a 45-mil polyethylene insulation. The wire shall be blue, have "UL" markings and suitable for direct bury applications.
 4. Continuity Test Station: Continuity test stations shall be located adjacent to each fire hydrant within the public easement for locating PVC water mains. The test station shall be housed in a standard Howard County 18-inch diameter meter vault with an 18"x12" metal frame and cover as shown in the details on the Plans. A 1-inch diameter by 30-inch long copper grounding rod imbedded a minimum of 12 inches into the ground shall be used for the attachment of the tracer wire. The tracer wire shall be fastened to the copper rod using two copper clamps.
 5. Detection Tape: Visual Detection Tape shall be 3 inches wide (minimum) metallic blue plastic tape lettered "water" in black graphics.
 6. Connection to PVC waterlines:
 - a. Connections to PVC waterlines shall be by using fittings, such as tees, indicated on the Plans.
 - b. Saddles may be used for 2-inch and smaller connections to PVC waterlines. Saddles with clamps shall provide full support around the circumference of the pipe and shall not distort, scratch, or damage the pipe when tightened. Only tapping saddles manufactured specifically for AWWA C900 PVC pipe shall be used. Saddle and clamps/straps shall be formed to meet the curvature of the pipe. Saddles with clamps shall be manufactured for underground service, shall be rated for a minimum service of 150 psi and shall be brass or bronze alloy meeting ASTM B62 or B584 and AWWA C800 or ductile iron saddles meeting ASTM A536 or A395 with two 10-8 stainless steel straps and shall be epoxy or nylon coated. Saddles shall have watertight gaskets of Buna-N rubber meeting ASTM D2000 or nitrile around the tap hole. Saddles shall be one of the following:
 1. Ford FC-202
 2. Mueller Series DR25
 3. Romac 202M
 4. Smith Blair 317 Nylon Coated
 5. JCM 406

EXECUTION

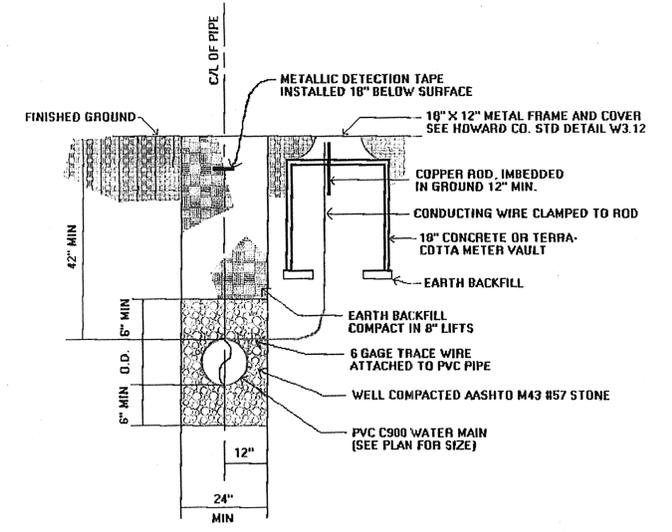
All construction methods and details shall be in accordance with the Howard County Design Manual Volume IV-Standard Specifications and Details for Construction and the following Criteria.

1. Installation of PVC Water Mains:
 - a. PVC pipe and fittings shall be handled in accordance with AWWA C605.
 - b. Bedding: Provide 6 inches of stone bedding under the pipe in accordance with Standard Detail G2.01 and the detail shown on the Plans for Trench for PVC Pipe using AASHTO M 43, size number 57 aggregate. The stone bedding shall be installed to grade prior to laying pipe. Excavate bell holes in bedding at each joint to assemble the joint and to insure that the entire length of each pipe barrel, fitting and valve is supported on firm bedding.
 - c. Install PVC AWWA C900 pressure pipe: Installation shall be in accordance with the Standard Specifications and the manufacturer's installation instructions and recommendations except as modified herein. Changes in horizontal and vertical alignment and curved alignments shown on the Plans shall be made by using fittings or high-deflection couplings. Deflecting PVC pipe joints or bending PVC pipe will not be permitted.
- Whenever a pipe requires cutting, the work shall be done in a manner that leaves a smooth, square end. Cut PVC pipe ends shall have burrs removed and the end beveled to match factory bevel. To ensure the proper length of insertion of the spigot into the bell, PVC pipe cut in the field shall be beveled and marked on the spigot end to the dimensions specified by the manufacturer prior to assembly.
- Prior to making gasketed joints, both mating pipe ends and the gasket shall be cleaned of all foreign material. The rubber gasket shall then be inserted in or stretched over the clean gasket seat and lubricant applied to the gasket and mating pipe end. The method for inserting the spigot into the bell shall be as recommended by the manufacturer and approved by the County. The pipe ends shall be carefully aligned and pushed together to meet the required manufacturer's insertion depth. Insertion of the spigot end of the pipe shall be made to a point where the factory mark is even with the face of the bell.
- d. Tracer Wires: Install tracer wires with the pipe. Tape wire to the top of the pipe with minimum 2-inch wide x 1/2-pipe-circumference long PVC tape every 4 feet along the pipe. The copper wire shall be continuous for the full length of the pipeline including all fire hydrant leads and shall terminate at continuity test stations. Continuity test stations shall be located adjacent to all fire hydrants. Where required, splicing shall be done with direct-bury wire connector, wire nut, or splice kit listed and labeled for direct bury, installed as recommended by manufacturer, and taped to the pipe. Connections to continuity test stations shall be in accordance with the detail shown on the Plans.

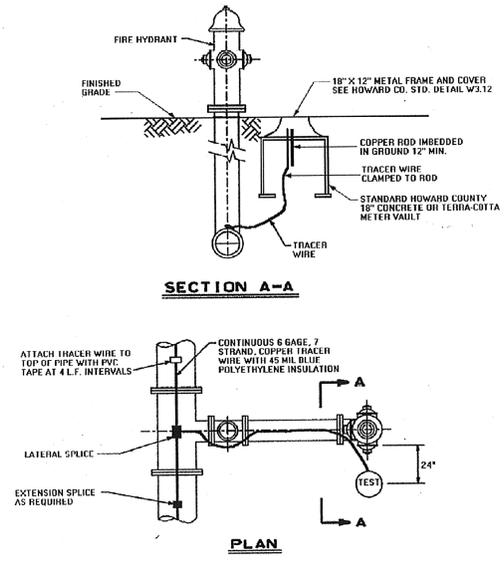
After backfilling, the Contractor shall test the tracer wire in the presence of the County to demonstrate electrical continuity between test stations through the length of the PVC pipeline installed. The Contractor shall notify the County 48 hours in advance of the tests. Any discontinuity shall be located, repaired and retested at the Contractor's expense until continuity is achieved.

- a. Backfill: Backfill over the PVC pipe in accordance with Standard Detail G2.01 and the detail shown on the Plans for Trench for PVC Pipe using well-compacted AASHTO M 43, size number 57 aggregate to a minimum of 6 inches over the crown of the pipe. Trench backfill shall proceed thereafter in 8-inch layers. Contractor shall provide full trench compaction density of 95% as determined by AASHTO T-100-A.
 - f. Detection Tape: Install detection tape directly over the centerline of the water mains on compacted backfill not less than 18 inches or more than 24 inches below finished surface. Tape shall be installed with minimal splices. Splices shall overlap a minimum of 6 inches.
2. Joints:
 - a. Mechanical Joints: For PVC plain-end to be connected to ductile iron mechanical joint bell, assemble the joint in accordance with the Standard Specifications, as modified in AWWA C605, the pipe manufacturer's recommendations and as specified herein. For PVC pipe plain ends to be inserted into mechanical joint bells, cut off the bevel so the plain-end is square cut. Do not deflect PVC pipe at connection to cast or ductile iron pipe or fittings.
 - b. Push-on Joints: For PVC pipe plain ends to be inserted in ductile iron or cast iron push-on bell, the spigot taper shall be cut to 1/4-inch long. Place an identifying mark on pipe that is not furnished with a depth mark on the plain end to show the depth of the socket and to verify that pipe is properly set in the bell. Assemble joints in accordance with AWWA C600 and C605, the manufacturer's recommendations, and as specified herein.

- a. Push-on Joints: For PVC pipe plain ends to be inserted in ductile iron or cast iron push-on bell, the spigot taper shall be cut to 1/4-inch long. Place an identifying mark on pipe that is not furnished with a depth mark on the plain end to show the depth of the socket and to verify that pipe is properly set in the bell. Assemble joints in accordance with AWWA C600 and C605, the manufacturer's recommendations, and as specified herein.
- Do not deflect PVC pipe at connection to cast or ductile iron pipe or fittings. The Contractor shall achieve change in alignment as indicated elsewhere herein. Assembly of the plain end into the bell shall be done in accordance with manufacturer's recommendations. The spigot shall not be inserted deeper than manufacturer's recommendations. Install push-on restrained joints in accordance with manufacturer's recommendations.
- c. Restrained Joint: In a restrained joint, PVC pipe shall not be deflected. If deflection is required in a restraint joint, use restrained ductile iron pipe.
3. Where the Contractor chooses to use PVC fittings, the pressure class of the fitting shall be the same as, or greater than, the pressure class of the pipe to which it connects. If the pressure class is not available, the Contractor shall use a ductile iron fitting. Where a fitting with restrained joints is required, a ductile iron mechanical joint shall be used.
 4. Fire Hydrant lead, including mainline tee, shall be ductile iron only.
 5. Connections to PVC pipe for Water House Connections:
 - a. Perform taps on PVC pipe in accordance with AWWA C605, the pipe manufacturer's recommendations, and as indicated herein.
 - b. Install a service saddle when tapping a PVC water main. Maintain a minimum of 24 inches between gages and PVC pipe bells.
 - c. For PVC water pipe, use only cutting/tapping tools and machines made specifically for cutting AWWA C900 pipe and as described in AWWA C605. The cutting/tapping machine shall be installed so that it does not distort the pipe. The machine shall be supported so that its weight is not carried by the pipe. When tapping PVC pipe, follow the manufacturer's safety precautions and the safety precautions cited in AWWA C605.
 - d. Multiple taps in a single pipe shall be staggered around the pipe circumference so they are not on a common line parallel to the longitudinal axis of the pipe and be at least 18-inches apart when measured longitudinally.

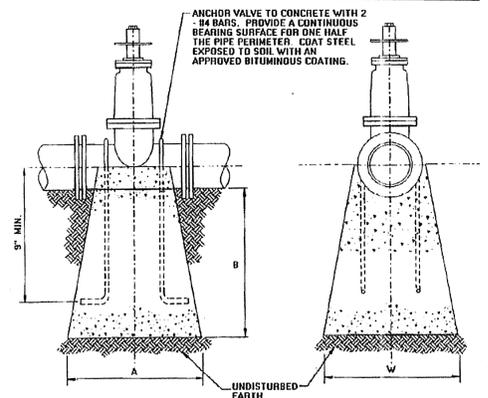


TRENCH FOR PVC PIPE AND CONTINUITY TEST STATION DETAIL



- NOTES:
1. TEST STATION MUST BE PLACED TO THE RIGHT OR LEFT SIDE OF THE FIRE HYDRANT.
 2. VALVE WELLS FRAME AND COVER TO BE SET FLUSH WITH FINISHED GRADE.
 3. BUTTRESSES AND STRAPPING NOT SHOWN FOR CLARITY.

CONTINUITY TEST STATION AT FIRE HYDRANT



PIPE SIZE	A	B	W
4"	9"	1'-0"	1'-0"
6"	10"	1'-6"	1'-0"
8"	1'-0"	2'-0"	2'-0"
12"	1'-0"	2'-0"	3'-0"

ALL CONCRETE TO BE MIX NO. 2

NOTE: VALVE ANCHORAGE IS ONLY REQUIRED WHEN THE VALVE IS NOT STRAPPED TO AN ADJACENT TEE.

ANCHORAGES FOR VALVES WITH PVC PIPE

CONTRACT NO. 14-4087-D
WESLEY WOODS
 SECTION 2
 LOTS 44 THRU 63 & OPEN SPACE LOT 64
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

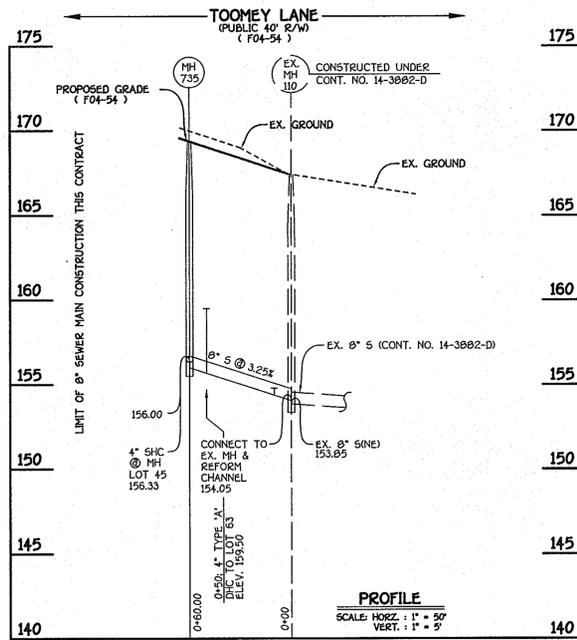
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND RALPH BARRINGER CHIEF, BUREAU OF UTILITIES 10-29-04	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND [Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION 11/1/04	#9757 STATE OF MARYLAND [Seal] TERRELL A. FISHER	DESIGNED BY: P.W.K.	AWWA C900 PVC WATER MAINS GENERAL NOTES AMENDMENT TO STANDARD SPECIFICATIONS DETAILS	SCALE AS SHOWN
			DRAWN BY: D.V.B.		
[Signatures and Dates]			CHECKED BY: P.W.K.	DATE: OCTOBER, 2004	REVISION
[Signatures and Dates]			DATE: OCTOBER, 2004	FILE NAME: ...WAT_SEW_AMENDMENT_TO_STD_DETAILS_SHTS_	[Blank]

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
700	562660.32	1393257.70	128.57
705	562493.72	1393368.24	135.70
710	562430.00	1393351.05	144.70
715	562323.34	1393421.81	155.00
720	562210.85	1393496.45	167.50
725	562061.83	1393595.32	173.19
730	561973.51	1393701.35	174.99
735	562078.75	1393742.84	168.82

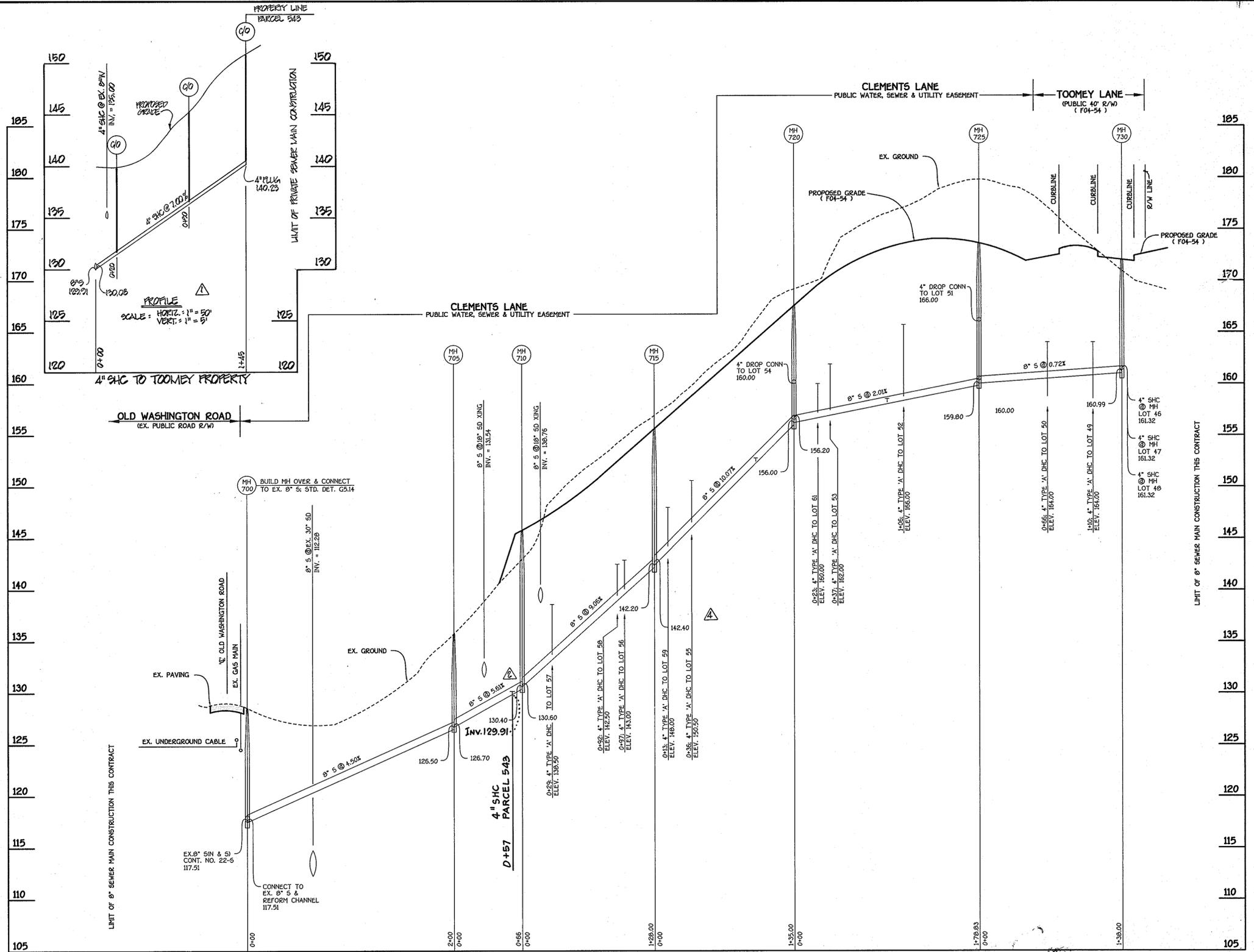
DEVELOPER REVISED GRADES

NOTE: SET ALL MH RIMS FLUSH W/ PROPOSED FINISHED GRADE OR EXISTING GROUND AS APPLICABLE

SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
MH 710 TO MH 715		
0+29 RT.	57 (DHC)	138.70
0+92 LT.	58 (DHC)	142.50
0+97 RT.	56 (DHC)	143.20
MH 715 TO MH 720		
0+13 LT.	59 (DHC)	148.40
0+36 RT.	55 (DHC)	150.70
0+98 LT.	60	152.84
④ MH 720 RT.	54 (DROP CONN. @ MH)	160.20
MH 720 TO MH 725		
0+23 LT.	61 (DHC)	160.40
0+37 RT.	53 (DHC)	162.20
0+90 LT.	62	158.58
1+06 RT.	52 (DHC)	166.20
④ MH 725 RT.	51 (DROP CONN. @ MH)	166.20
MH 725 TO MH 730		
0+66 RT.	50 (DHC)	164.74
1+10 RT.	49 (DHC)	164.92
④ MH 730 RT.	48 (SHC @ MH)	161.86
④ MH 730 CTR.	47 (SHC @ MH)	161.68
④ MH 730 LT.	46 (SHC @ MH)	161.60
EX. MH 110 TO MH 735		
0+10 LT.	44	154.81
0+50 RT.	63 (DHC)	160.10
④ MH 735 LT.	45 (SHC @ MH)	156.57
MH 705 TO MH 710		
0+57 LT.	PARCEL 543 (TOOMEY)	130.70 (AT EDGE OF EASEMENT)



8" SEWER MAIN: TOOMEY LANE



8" SEWER MAIN: CLEMENTS LANE; TOOMEY LANE TO OLD WASHINGTON ROAD

PARCEL 543
SANITARY SEWER NOTE
4" PVC SHC MOVED BECAUSE BG&E POLES
ARE IN THE WAY AT THE PROPERTY LINE
4" PVC IS AT 5.50%

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

AS BUILT
DATE: JUNE 2005

CONTRACT NO. 14-4087
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2000



DESIGNED BY:	D.Y.B.		
DRAWN BY:	P.W.K.	DELETE SHC OUT OF MH 715 TO TOOMEY PROPERTY	1/3/00
CHECKED BY:	P.W.K.	REVISE CHART: NEW LOCATION OF SHC TO TOOMEY PROPERTY	1/3/00
DATE:	OCTOBER, 2004	ADD "TEE" TO DENOTE 4" SHC TO TOOMEY PROPERTY	1/3/00
BY:	NO.	ADD PROFILE OF 4" SHC TO TOOMEY PROPERTY	1/3/00

SEWER MAIN
PROFILES

600' SCALE MAP NO.	38	BLOCK NO.	4
F.C.C. WORK ORDER NO.	6113		
FILE NAME	FINAL SEWER MAIN PROFILE SHT 4		

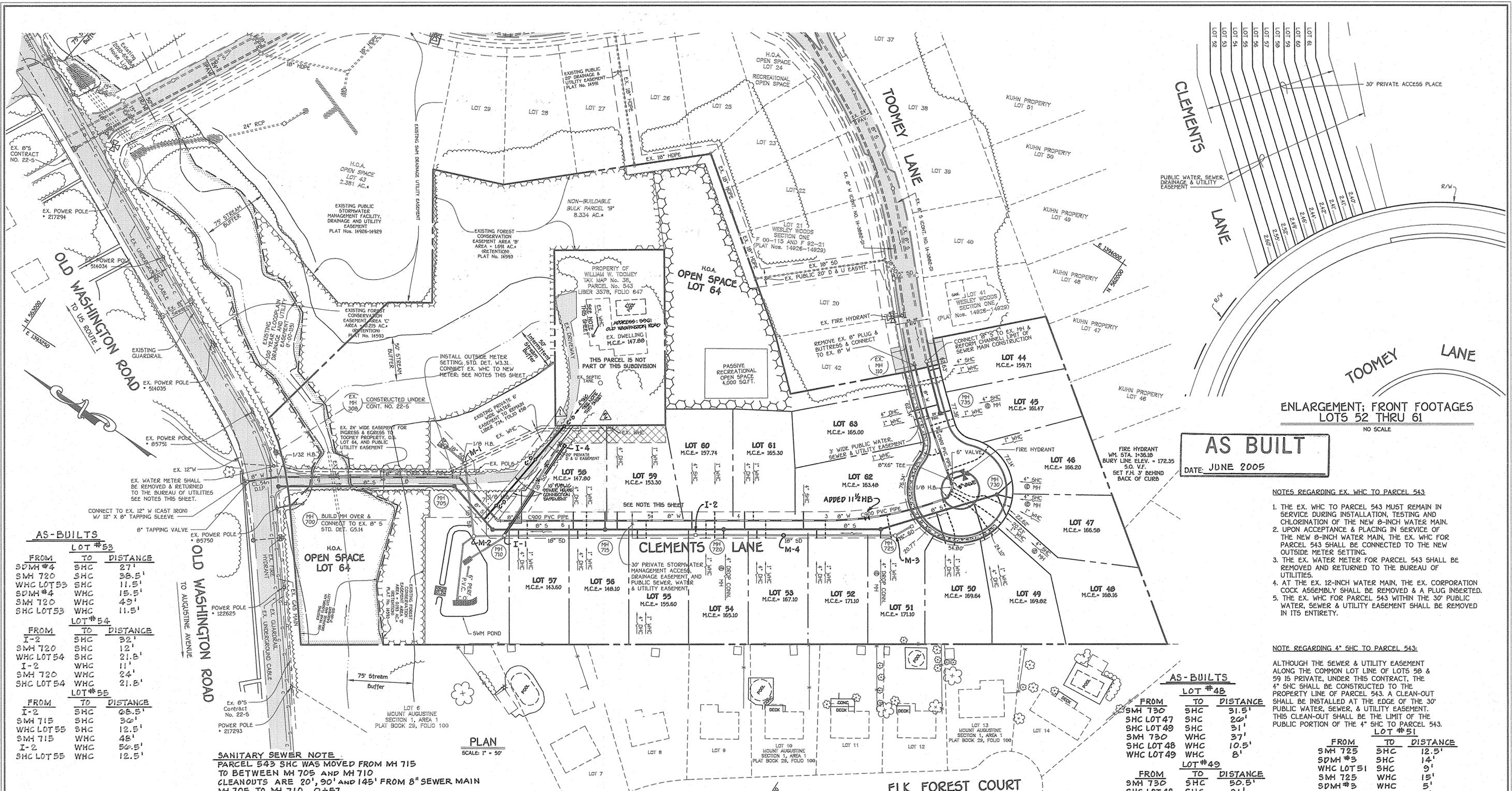
WESLEY WOODS
SECTION 2
LOTS 44 THRU 63 & OPEN SPACE LOT 64
CONTRACT NO. 14-4087
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
4 OF 5

10-28-04
DATE

11/10/04
DATE



AS BUILT
DATE: JUNE 2005

ENLARGEMENT; FRONT FOOTAGES
LOTS 52 THRU 61
NO SCALE

- NOTES REGARDING EX. WHC TO PARCEL 543
1. THE EX. WHC TO PARCEL 543 MUST REMAIN IN SERVICE DURING INSTALLATION, TESTING AND CHLORINATION OF THE NEW 8-INCH WATER MAIN.
 2. UPON ACCEPTANCE & PLACING IN SERVICE OF THE NEW 8-INCH WATER MAIN, THE EX. WHC FOR PARCEL 543 SHALL BE CONNECTED TO THE NEW OUTSIDE METER SETTING.
 3. THE EX. WATER METER FOR PARCEL 543 SHALL BE REMOVED AND RETURNED TO THE BUREAU OF UTILITIES.
 4. AT THE EX. 12-INCH WATER MAIN, THE EX. CORPORATION COCK ASSEMBLY SHALL BE REMOVED & A PLUG INSERTED.
 5. THE EX. WHC FOR PARCEL 543 WITHIN THE 30' PUBLIC WATER, SEWER & UTILITY EASEMENT SHALL BE REMOVED IN ITS ENTIRETY.

NOTE REGARDING 4" SHC TO PARCEL 543:
ALTHOUGH THE SEWER & UTILITY EASEMENT ALONG THE COMMON LOT LINE OF LOTS 50 & 59 IS PRIVATE, UNDER THIS CONTRACT, THE 4" SHC SHALL BE CONSTRUCTED TO THE PROPERTY LINE OF PARCEL 543. A CLEAN-OUT SHALL BE INSTALLED AT THE EDGE OF THE 30' PUBLIC WATER, SEWER, & UTILITY EASEMENT. THIS CLEAN-OUT SHALL BE THE LIMIT OF THE PUBLIC PORTION OF THE 4" SHC TO PARCEL 543.

AS-BUILTS

LOT #53		
FROM	TO	DISTANCE
SDMH #4	SHC	27'
SMH 720	SHC	38.5'
WHC LOT 53	SHC	11.5'
SDMH #4	WHC	15.5'
SMH 720	WHC	49'
SHC LOT 53	WHC	11.5'

LOT #54		
FROM	TO	DISTANCE
I-2	SHC	32'
SMH 720	SHC	12'
WHC LOT 54	SHC	21.8'
I-2	WHC	11'
SMH 720	WHC	24'
SHC LOT 54	WHC	21.8'

LOT #55		
FROM	TO	DISTANCE
I-2	SHC	65.5'
SMH 715	SHC	36'
WHC LOT 55	SHC	12.5'
SMH 715	WHC	48'
I-2	WHC	56.5'
SHC LOT 55	WHC	12.5'

SANITARY SEWER NOTE
PARCEL 543 SHC WAS MOVED FROM MH 715 TO BETWEEN MH 705 AND MH 710
CLEANOUTS ARE 20', 90' AND 145' FROM 8" SEWER MAIN
MH 705 TO MH 710, 0+57

STORM DRAIN NOTE
M-4 IS A NEW SDMH THAT WAS ADDED TO THE PROJECT

NOTES: A. FROM WM STA. 0+00 TO WM STA. 9+46.21 (NOT INCLUDING THE 1/32 H.B.), C900 PVC PIPE SHALL BE UTILIZED FOR THE 8" WATER MAIN. SEE SHEET 5 OF 5 FOR GENERAL NOTES, PART II: WATER, *7 THRU *13, AMENDMENT TO THE STANDARD SPECIFICATIONS, AND ADDITIONAL DETAILS.
B. FROM WM STA. 9+46.21 (INCLUDING THE 1/32 H.B.) TO WM STA. 9+84.52, CLASS 54 D.I.P. SHALL BE UTILIZED FOR THE 8" WATER MAIN.

LOT #56			LOT #57		
FROM	TO	DISTANCE	FROM	TO	DISTANCE
SMH 715	SHC	33.5'	I-1	SHC	18'
SHC LOT 56	SHC	31.5'	SMH 710	SHC	31'
WHC LOT 56	SHC	11.5'	WHC LOT 57	SHC	10'
SMH 715	WHC	23.5'	I-1	WHC	8'
SHC LOT 56	WHC	34'	SMH 710	WHC	22'
SHC LOT 56	WHC	11.5'	SHC LOT 57	WHC	10'

LOT #44			LOT #45		
FROM	TO	DISTANCE	FROM	TO	DISTANCE
Ex. MH 110	SHC	18'	Ex. MH 110	SHC	60.5'
SMH 735	SHC	53'	SMH 735	SHC	13.5'
SHC LOT 45	SHC	50.5'	SHC LOT 44	SHC	50.5'
Ex. MH 110	WHC	24'	SHC LOT 45	WHC	10'
SMH 735	WHC	40'	SMH 735	WHC	17.5'
SHC LOT 45	WHC	39.4'	SHC LOT 45	WHC	40.5'

LOT #46			LOT #47		
FROM	TO	DISTANCE	FROM	TO	DISTANCE
SMH 730	SHC	23.5'	SMH 730	SHC	19'
SHC LOT 47	SHC	21'	SHC LOT 46	SHC	20'
SHC LOT 48	SHC	40'	SHC LOT 46	SHC	21'
SMH 730	WHC	50.5'	SMH 730	WHC	22'
SHC LOT 46	WHC	49'	SMH 730	WHC	10.5'
FH 1+30	WHC	43.5'	SHC LOT 47	WHC	10'

LOT #48			LOT #49		
FROM	TO	DISTANCE	FROM	TO	DISTANCE
SMH 730	SHC	31.5'	SMH 730	SHC	50.5'
SHC LOT 47	SHC	20.5'	SHC LOT 48	SHC	31'
SHC LOT 49	SHC	31'	SMH 730	WHC	10.5'
SMH 730	WHC	37'	WHC LOT 48	WHC	8'
SHC LOT 48	WHC	10.5'	SHC LOT 49	WHC	12.5'
WHC LOT 49	WHC	8'			

AS-BUILTS

LOT #48			LOT #49		
FROM	TO	DISTANCE	FROM	TO	DISTANCE
SMH 730	SHC	31.5'	SMH 730	SHC	50.5'
SHC LOT 47	SHC	20.5'	SHC LOT 48	SHC	31'
SHC LOT 49	SHC	31'	SMH 730	WHC	10.5'
SMH 730	WHC	37'	WHC LOT 48	WHC	8'
SHC LOT 48	WHC	10.5'	SHC LOT 49	WHC	12.5'
WHC LOT 49	WHC	8'			

LOT #50		
FROM	TO	DISTANCE
SMH 730	SHC	30.5'
SMH 725	SHC	37.5'
SHC LOT 49	SHC	45'
SMH 730	WHC	73.5'
SHC LOT 50	WHC	12'
SHC LOT 49	WHC	34'

LOT #51			LOT #52		
FROM	TO	DISTANCE	FROM	TO	DISTANCE
SMH 725	SHC	12.5'	SHC LOT 52	SHC	30.5'
SDMH #3	SHC	14'	SMH 725	SHC	75'
WHC LOT 51	SHC	9'	WHC LOT 52	SHC	12.5'
SMH 725	WHC	15'	SHC LOT 52	WHC	42.5'
SDMH #3	WHC	5'	SMH 725	WHC	63'
SHC LOT 51	WHC	9'	SHC LOT 52	WHC	12.5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 11/1/04	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DATE: 11/1/04	DESIGNED BY: P.W.K. DRAWN BY: D.Y.B. CHECKED BY: P.W.K. DATE: OCTOBER, 2004	WESLEY WOODS SECTION 2 LOTS 44 THRU 63 & OPEN SPACE LOT 64 CONTRACT NO. 14-4087-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 5
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