

-GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-I' GTW'S WAVERLY WOODS SECTION 7: OPEN SPACE LOT 1: EX. PUBLIC SEWER & UTILITY EASEMENT; PLAT NO. 13439 SET MH RIM 1'-6" ABOVE MH RIM ELEVATION = 461.10 EX. GROUND; STD. DET. G5.14 N 597807.85 E 1341268.66 460 EX. GROUND -- 8" 5 **@ 4.87%** FUTURE PRIVATE 8" 5 BY OTHERS: (SDP03-46) 450 - 452.06 KNOCK-OUT PANEL & CONNECT TO EX. MH (NE & 5E) 441.94 CONT. NO. 20-3692-D

8"	SEWER	MAIN
0	JLWLK	LINALIA

WATER MAIN TABULATION CHART EASTING W.M. STATION APPURTENANCE WATER MAIN 1 0+00.00 12" X 8" TAPPING SLEEVE 590254.29 1341555.94 0+03.00 6" TAPPING VALVE 598251.92 1341554.10 1341492.42 8" X 8" TEE P.C. (CRIMP RADIUS = 409.99") 1+07.71 598170.18 1341495.99 2+21.23 P.T. (CRIMP RADIUS = 409.99") 598090.85 1341576.64 1/8 H.B. 598044.42 1341614.32 2+80.90 8" X 6" FH TEE 3+00.15 598025.17 1341614.32 1341614.32 3+06.19 1/8 H.B. 590019.13 3+09.19 8" VALVE 1341611.96 598017.25 3+34.86 1/32 H.B. 59800L12 1341592.01 P.C. (CRIMP RADIUS = 531.23') 1341585.08 3+42.68 597997.49 1341374.46 5+63.12 6" X 4" TEE 597938.00 P.T. (CRIMP RAD. 531.23") 5+85.00 597936.97 1341352.60 6+57.48 8" X 6" FH TEE 597935.04 1341280.16 6" X 6" REDUCER 6+60.48 597934.96 1341277.16 6" X 6" TEE 6+80.90 597934.42 1341256.74 1341256.66 6+83.90 597937.42 6" VALVE 8+01.85 6" X 6" TEE 598055.33 1341253.53 **8+63.00** 6" PLUG & BUTTRESS 598116.46 1341251.90 WATER MAIN •2 0+00.00 0° X 0° TEE 1341492.42 590172.96 0+03.90 8" X 4" TEE 1341469.29 598175.41 6" VALVE 1341486.92 0+06.98 598177.26 0+10.00 P.C. (CRIMP RADIUS = 562.55") 590179.12 1341484.54 1+95.79 8" X 4" TEE 598265.75 1341321.14 8" X 6" FH TEE 1341216.33 3+03.51 590209.92 P.T. (CRIMP RADIUS = 562.55') 1341213.36 3+06.51 598290.31 8" PLUG & BUTTRESS

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

- 1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100 YEAR FLOODPLAIN.
- 2. PLACE MATERIALS IN A LOCATION AND MANNER THAT DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
- 4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR
- 5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
- 6. RECTIFY ANY NONTIDAL WETLANDS, WETLANDS BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
- 7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN
- 6. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
- 9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM: NOT APPLICABLE; NO IN-STREAM WORK.
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- 11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

MDE TRACKING NUMBER: 20025623

CONTRACT NO. 24-4050-D

GTW'S WAVERLY WOODS
SECTION 7; PARCEL 'A-1'
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES DATE	CHIEF , DEVELOPMENT ENGINEERING DIVISION DATE

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYORS

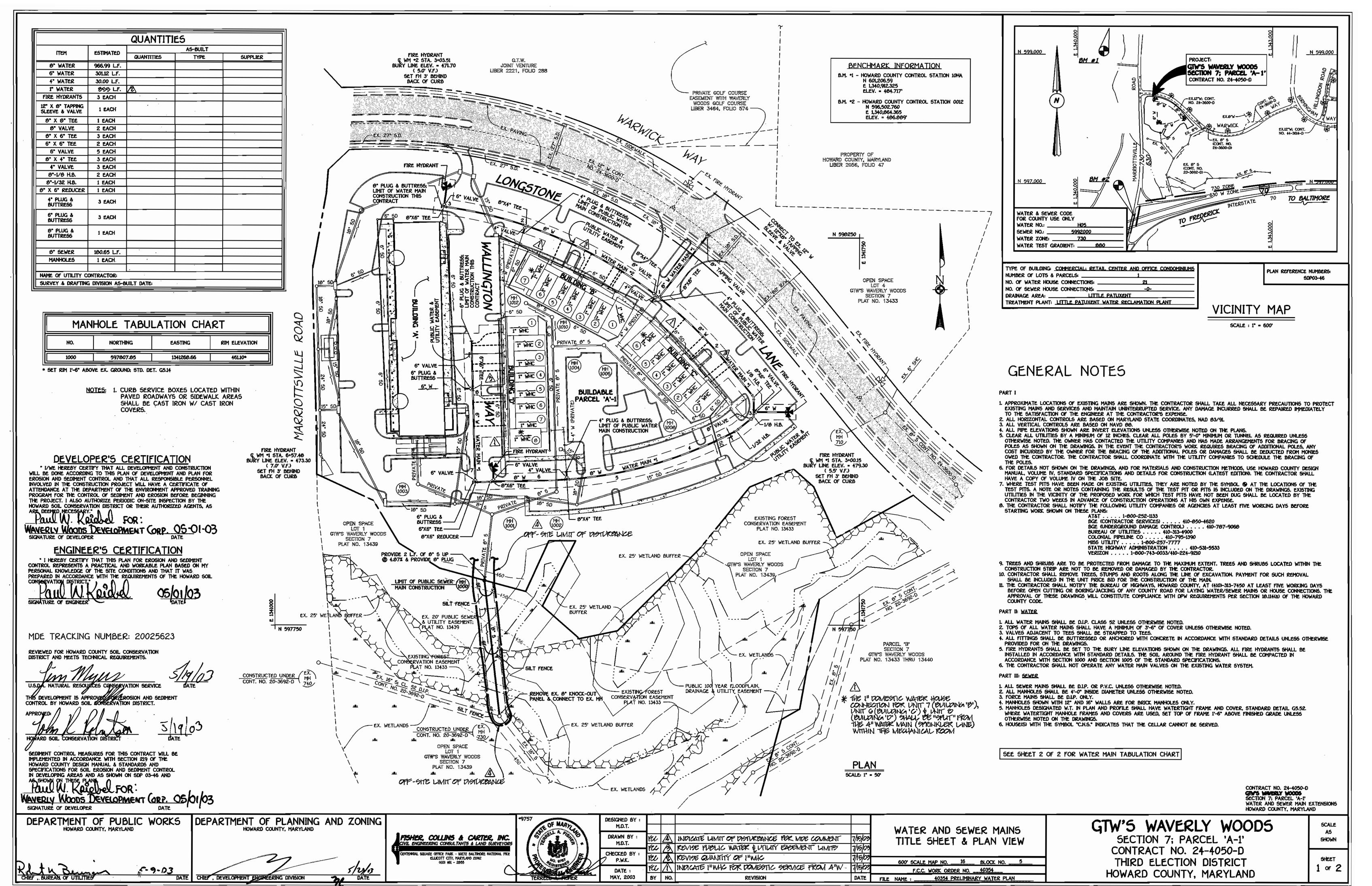


	DESIGNED BY :						
	M.D.T.			-		WATER AND SEWER MAINS	
	DRAWN BY : M.D.T.					PROFILES	
	_ CHECKED BY :					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
A	P.W.K.			· · · · · · · · · · · · · · · · · · ·		600° SCALE MAP NO. 16 BLOCK NO5	
	DATE :					F.C.C. WORK ORDER NO. 40354	
_	MAY, 2003	BY	NO.	REVISION	DATE	FILE NAME : 40354 FINAL WATER MAINS PLAN SHT2	

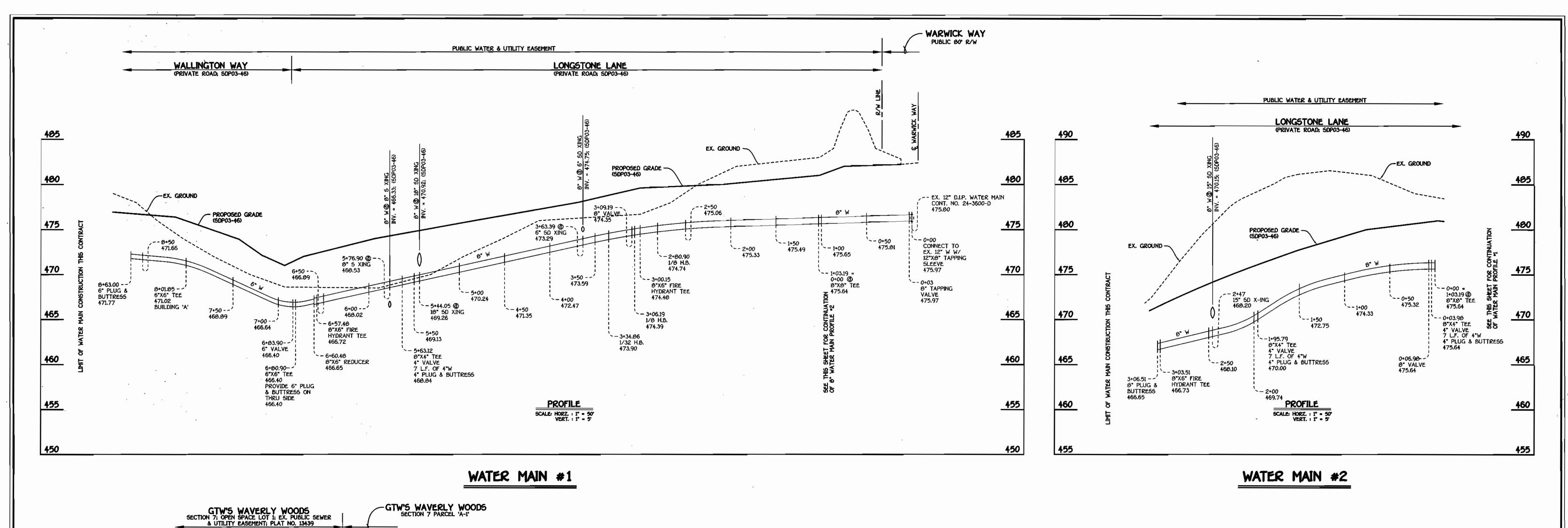
GTW'S WAVERLY WOODS

SECTION 7; PARCEL 'A-1' CONTRACT NO. 24-4050-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHOWN SHEET 2 of 2



K:\Drawings 4\40354 Waverly Woods Section 7 Pe



SET MH RIM 1'-6" ABOVE MH RIM ELEVATION = 461.10 EX. GROUND; STD. DET. G5.14 1000 N 597807.05 460 EX. GROUND - 8° 5 @ 4.87% - FUTURE PRIVATE 8" 5 455 BY OTHERS; (SDP03-46) 450 450 - PROVIDE 8" PLUG - 452.06 440 - REMOVE EX. KNOCK-OUT PANEL & CONNECT TO EX. MH (NE & SE) 441.94 CONT. NO. 442.61 20-3692-D 435 SCALE: HORZ : 1" = 50" VERT. : 1" = 5"

8" SEWER MAIN

DATE CHIEF , DEVELOPMENT ENGINEERING DIVISION

△ SEQUENCE OF CONSTRUCTION

- OBTAIN THE REQUIRED MDE LETTER OF AUTHORIZATION & HOWARD COUNTY GRADING PERMIT.
- 2. NOTIFY MISS UTILITY 40 HOURS BEFORE ANY WORK (1-000-257-7777). NOTIFY HOWARD COUNTY CONSTRUCTION/INSPECTION DIVISION 24 HOURS BEFORE STARTING ANY WORK ((410)313-1070).
- INSTALL THE REQUIRED SEDIMENT AND EROSION CONTROL DEVICES AS
- SEE SHEET 2 FOR BEST MANGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS AND 100-YEAR FLOODPLAINS.
 CLEAR AND GRUB AS NECESSARY, ONLY AS REQUIRED FOR EXCAVATION

INDICATED ON SHEET 1 OF THIS CONTRACT.

SEDIMENT CONTROL DEVICES.

- AND INSTALLATION OF THE SEWER MAIN, AND ONLY WITHIN THE DESIGNATED SEWER AND UTILITY EASEMENTS.
- 6. NOTE: THE LENGTH OF OPEN SEWER MAIN TRENCH SHALL BE LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH WILL BE BACKFILLED AND
- STABILIZED WITHIN ONE (1) WORKING DAY, WHICHEVER IS SHORTER. CONSTRUCT THE SEWER MAIN AND APPURTENANCES . STABILIZE, SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE
- WITH THE PERMANENT SEEDING NOTES SHOWN ON THIS SHEET. FOLLOWING SUCCESSFUL STABILIZATION OF ALL DISTURBED AREAS. AND AFTER PERMISSION HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION AND

WATER MAIN TABULATION CHART					
W.M. STATION	APPURTENANCE	NORTHING	EASTING		
	WATER MAIN *1				
0+00.00	12" X 0" TAPPING SLEEVE	590254.29	1341555.94		
0+03.00	O" TAPPING VALVE	590251.92	1341554.10		
1+03.19	9" X 9" TEE	590172.96	1341492.42		
1+07.71	P.C. (CRIMP RADIUS = 469.99')	590170.18	1341495.99		
2+21.23	P.T. (CRIMP RADIUS = 409.99')	598090.85	1341576.04		
2+80.90	1/8 H.B.	598044.42	1341614.32		
3+00.15	9" X 6" FH TEE	599025.17	1341614.32		
3+06.19	1/0 H.B.	598019.13	1341614.32		
3+09.19	O" VALVE	598017.25	1341611.98		
3+34.86	1/32 H.B.	59800L12	1341592.01		
3+42.60	P.C. (CRIMP RADIUS = 531.23')	597997.49	1341505.00		
5+63.12	8" X 4" TEE	597938.00	1341374.46		
5+85.00	P.T. (CRIMP RAD. 531.23')	597936.97	1341352.60		
6+57.48	O" X 6" FH TEE	597935.04	1341280.16		
6+60.40	8" X 6" REDUCER	597934.96	1341277,16		
6+80.90	6" X 6" TEE	597934.42	1341256.74		
6+83.90	6" VALVE	597937.42	1341256.66		
8+01.85	6" X 6" TEE	590055.33	1341253.53		
Ø+63.00	6" PLUG & BUTTRESS	590116.46	1341251.90		
	Water Main •2				
0+00.00	0" X 0" TEE	598172.96	1341492.42		
0+03.98	8" X 4" TEE	590175.41	1341489.29		
0+06.98	6" VALVE	598177.26	1341486.92		
0+10.00	P.C. (CRIMP RADIUS = 562.55')	598179.12	1341484.54		
1+95.79	9° x 4° Tee	590265.75	1341321.14		
3+03.51	0" X 6" FH TEE	590209.92	1341216.33		
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GTW'S WAVERLY WOODS

MDE TRACKING NUMBER: 20025623

CONTRACT NO. 24-4050-D GTW'S WAVERLY WOODS SECTION 7; PARCEL 'A-1' WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND 5-9-03

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS al square office park – 10272 Baltimore National Pike Ellicott City, Maryland 21042 (410) 461 – 2855



1	DESIGNED BY :					
Į	M.D.T.					١
I	DRAWN BY :			-		•
Į	M.D.T.			-		
l	CHECKED BY:			<u>-</u>		
1	P.W.K.					
1	DATE :	KUL	1	ADD GEQUENCE OF CONSTRUCTION PER MITE COMMENT	7/15/09	_
1	MAY. 2003	av	NO	2FVISION	DATE	rus A

WATER AND SEWER MAINS **PROFILES**

40354 FINAL WATER MAINS PLAN SHT2

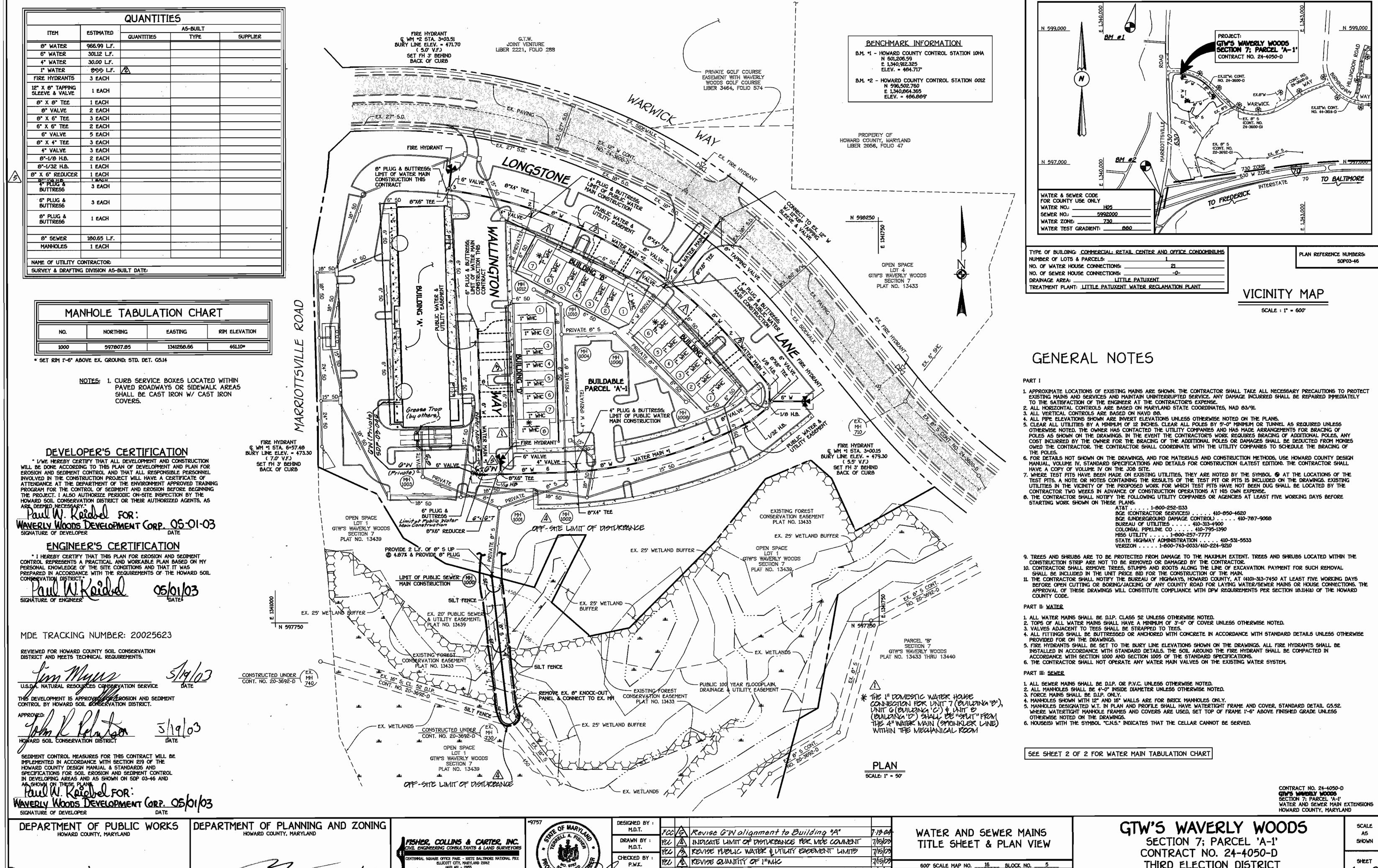
600' SCALE MAP NO. ____16____ BLOCK NO. ____5

F.C.C. WORK ORDER NO. __40354

SECTION 7; PARCEL 'A-1' CONTRACT NO. 24-4050-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE SHOWN

> SHEET 2 of 2



£-9-03

CHIEF , DEVELOPMENT

INDICATE I"WHO FOR DOMESTIC SERVICE FROM A"W DATE FILE NAME : MAY, 2003

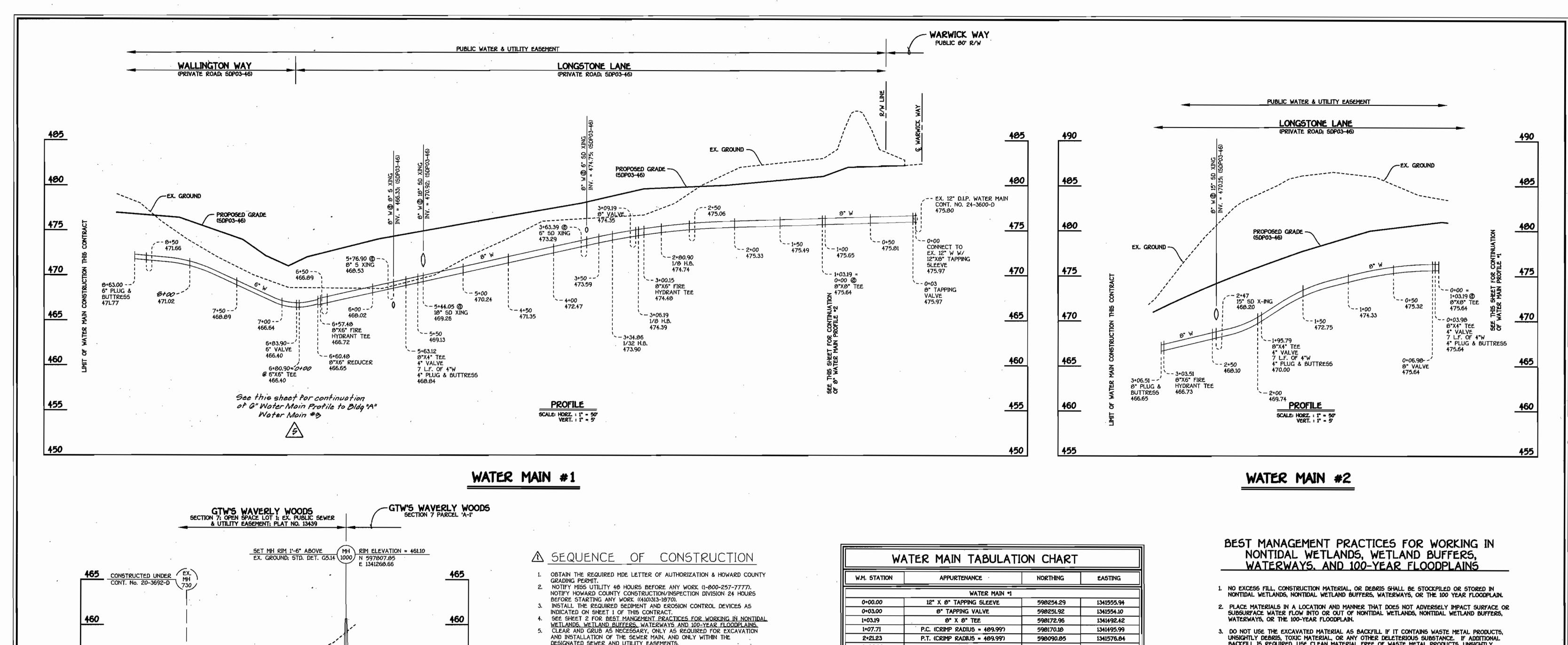
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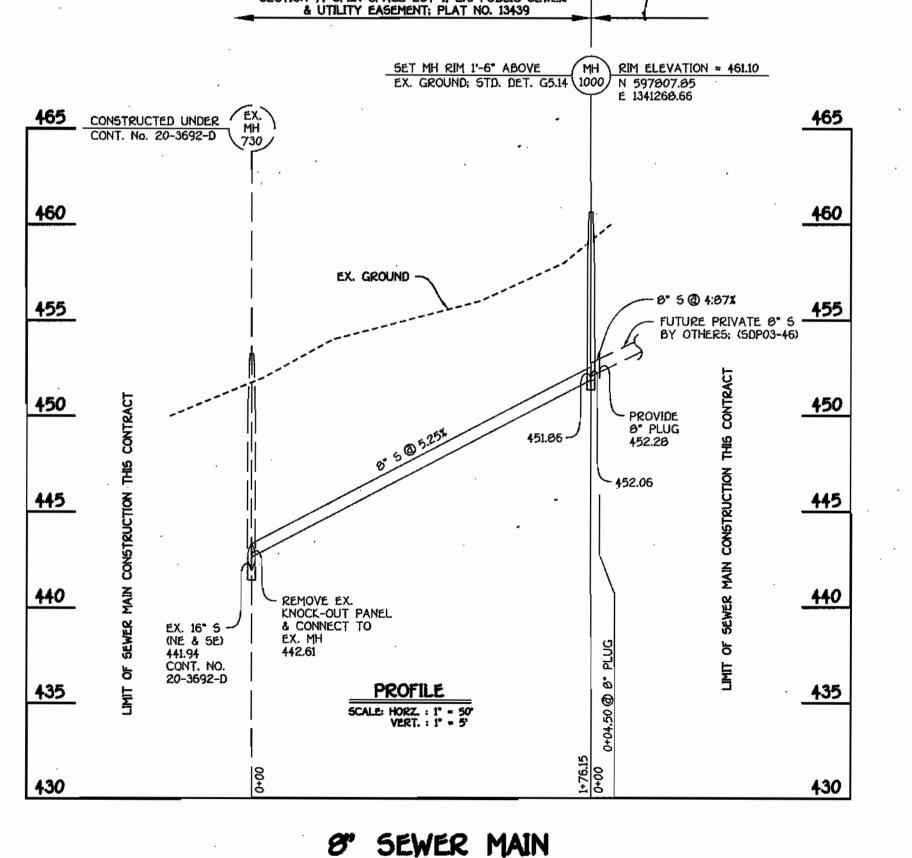
40354 PRELIMINARY WATER PLAN

THIRD ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

1 of 2





1.	OBTAIN THE REQUIRED	MDE LETTER OF A	UTHORIZATIO	N & HOWARD	COUNTY	
	GRADING PERMIT.					
2.	NOTIFY MISS UTILITY 4	8 Hours before	ANY WORK (1	-800-257-777	7).	
	NOTIFY HOWARD COUNT			ivision 24 ho	urs	
	BEFORE STARTING ANY			,		
3.	INSTALL THE REQUIRED	SEDIMENT AND E	ROSION CONTI	ROL DEVICES	A5	
	INDICATED ON SHEET 1					
4.	SEE SHEET 2 FOR BEST			WORKING IN N	ONTIDAL.	
,-	WETLANDS, WETLAND BI					
5.	CLEAR AND GRUB AS I					
•	AND INSTALLATION OF					
	DESIGNATED SEWER ANI					
6.	NOTE: THE LENGTH OF			ALL RE LIMIT	≠n .	
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7	CONSTRUCT THE SEWE			S SHOKILK.		
7. 8.	STABILIZE, SEED AND I			N. ACCOGRANC	**************************************	
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9.						
7.	FOLLOWING SUCCESSFU					
	AND AFTER PERMISSION					
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	SEDIMENT CONTROL DEV	ICES.				
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		6"	Plua 4	بالمريسسيس	continuation of 6"	
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	1000	Limit of Sonstruc Contract		اجرر		
	455	400		450		

V.M. STATION	APPURTENANCE	NORTHING	EASTING
	Water Main •1		
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00.00 • 6+80.90	6"x6"T	597934.42	1341256.74
0+03.00	1/10 HB	597934.30	1341252.24
0+10.00	O" Volve	597934.14	1341246.14
0+13.32	G"Plug & Buttress	507935.35	1341243.71

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MDE TRACKING NUMBER: 20025623

CONTRACT NO. 24-4050-D GTW'S WAVERLY WOODS SECTION 7; PARCEL 'A-1' WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND 5-9-03 CHIEF , DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC. . ENGINEERING CONSULTANTS & LAND SURVEYORS SOLUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE



WATER MAIN #3

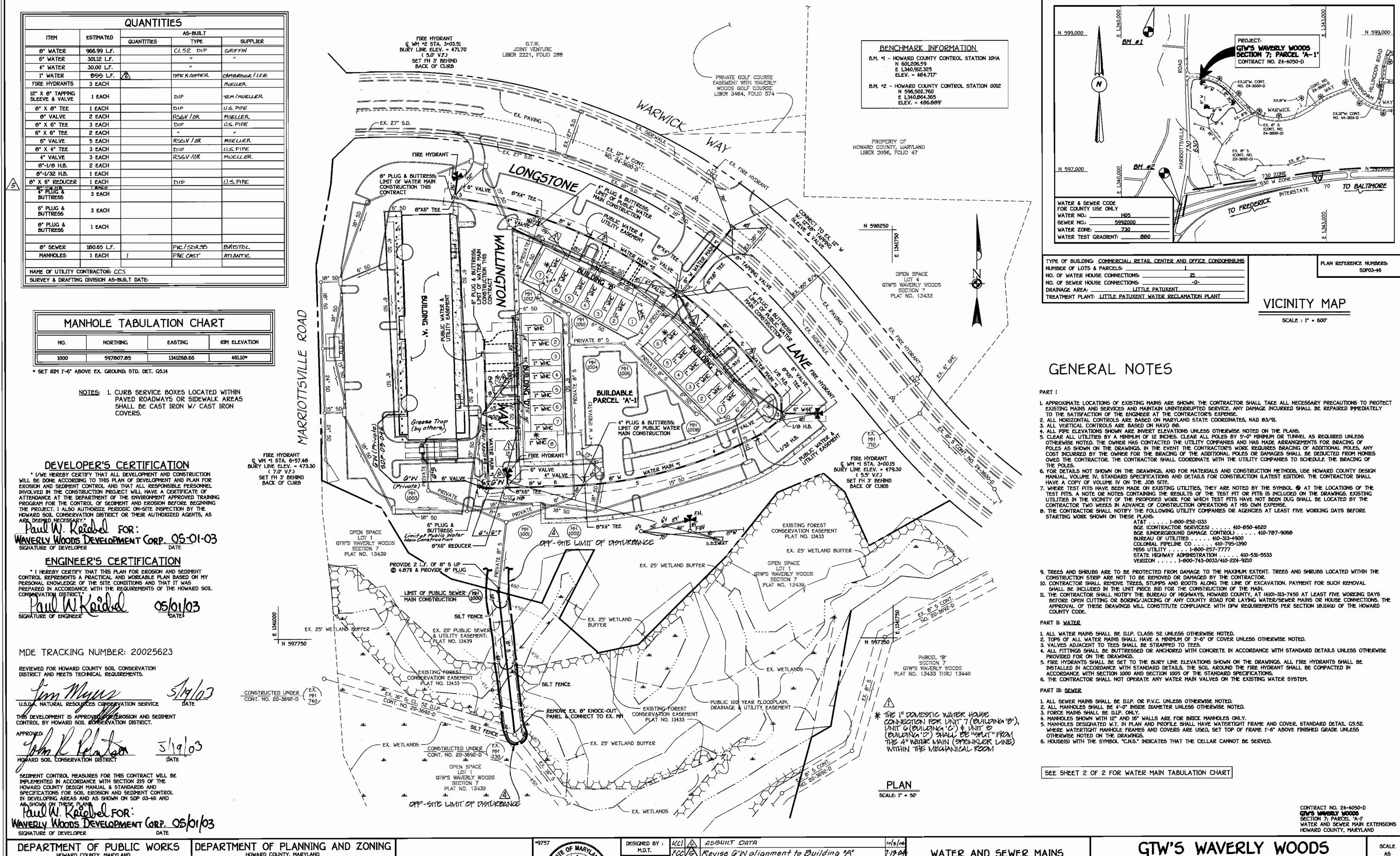
Building "A"

	DESIGNED BY : M.D.T.		-,- <u>,</u>			WATER AND SELVER MAINS
	DRAWN BY : M.D.T.			- · · · · · · · · · · · · · · · · · · ·		WATER AND SEWER MAINS PROFILES
./	CHECKED BY : P.W.K.	FCC	السوادة	Add profile for 6"W (WM*3) to serve Building "A"	7-13-04	
\angle	DATE :	KU	\triangle	ADD SEQUENCE OF CONSTRUCTION PER MITE COMMENT	7/19/03	F.C.C. WORK ORDER NO. 40354
	MAY, 2003	BY	NO.	REVISION	DATE	FILE NAME : 40354 FINAL WATER MAINS PLAN SHT2

GTW'S WAVERLY WOODS

SECTION 7; PARCEL 'A-1' CONTRACT NO. 24-4050-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHOWN SHEET



SHOWN

HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. IL ENGINEERING CONSULTANTS & LAND SURVEYORS QUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKI ELLICOTT CITY, MARYLAND 21042



M.D.T. FCC & Revise G"Walignment to Building "A" 7.13.04 DRAWN BY : FEC A INDICATE LIMIT OF DETURBANCE PER MOR COMMENT M.D.T. PCC A REVISE PUBLIC WATER EUTILITY EASEMENT LIMITS CHECKED BY : FCC A KEVISE QUANTITY OF 1"WHO P.W.K. FLC A INDICATE I"WHIC FOR DOMESTIC SERVICE FROM A"W MAY, 2003 REVISION

WATER AND SEWER MAINS TITLE SHEET & PLAN VIEW 600' SCALE MAP NO. ____16___ BLOCK NO. __

SECTION 7; PARCEL 'A-1' CONTRACT NO. 24-4050-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

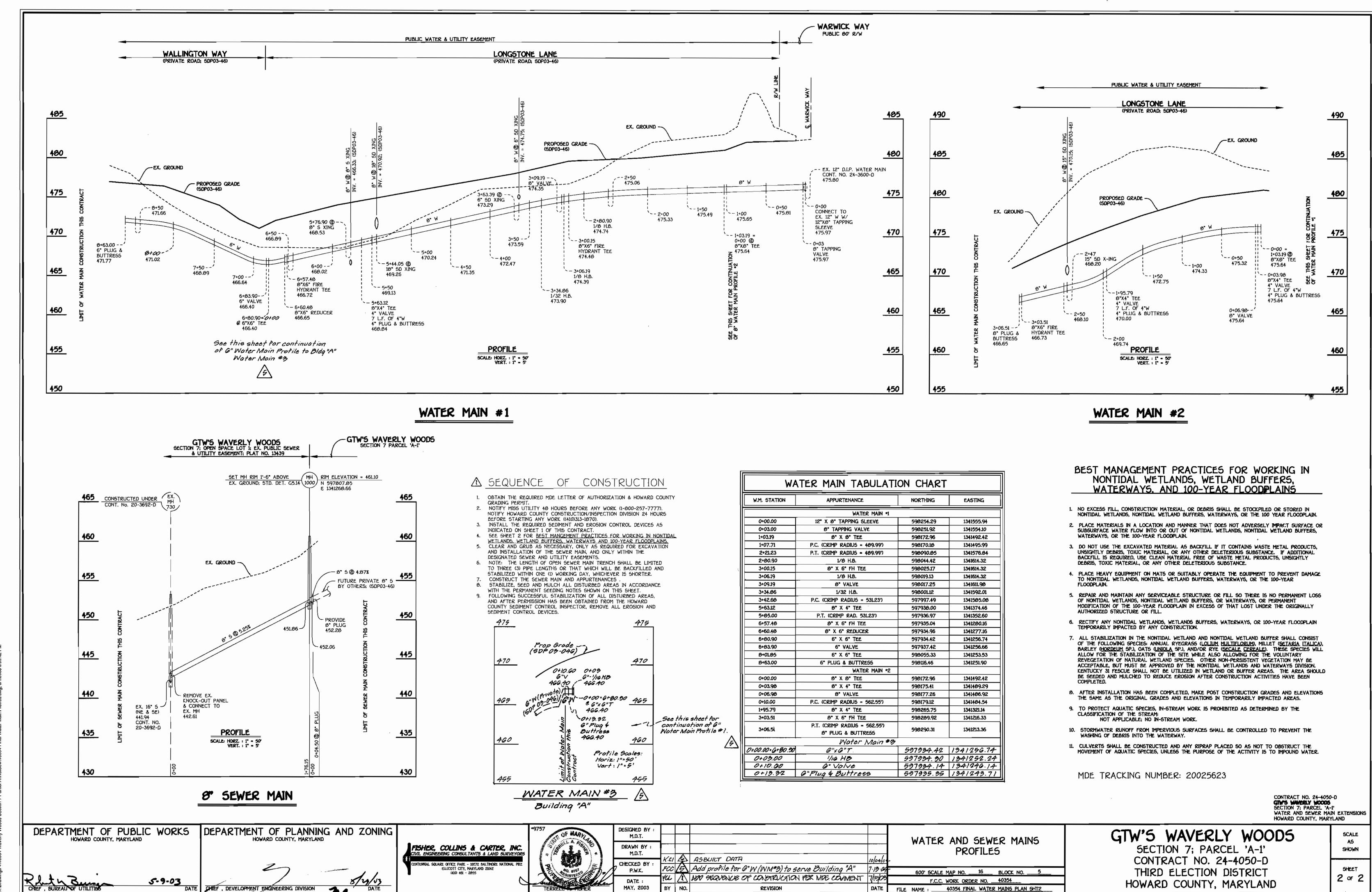
SHEET 1 of 2

£ 9-03 CHIEF , DEVELOPMENT ENGINEERING DIVISION

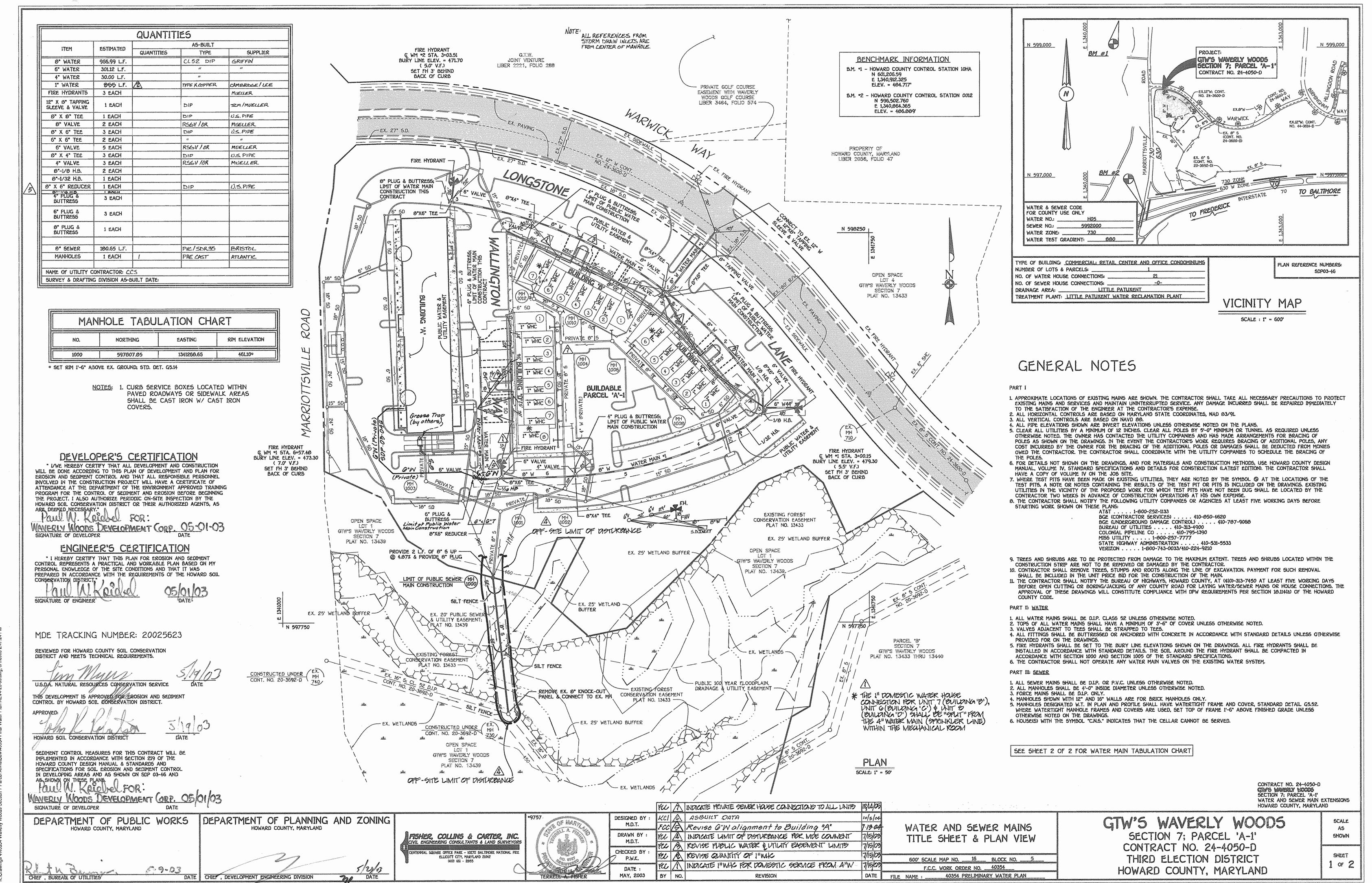
HOWARD COUNTY, MARYLAND

DATE FILE NAME :

F.C.C. WORK ORDER NO. __40354 40354 PRELIMINARY WATER PLAN



K-i Drawings 4/40354 Wavan'v Monds Section 7 Decos AlWatSaw\40354 Final Water Main Droffles dwn 5/1/2003 3:00-4



VADranjana AVAOSEA Woody Monde Souther 7 Danes AWASSAMEINS Work Disc DEVA 28 As 45 A000