OHANTITIES						
QUANTITIES						
ITEM	ESTIMATED	AS-BUILT TYPE				
12" WATER	1,677 L.F.	QUANTITIES				
8" WATER	217 L.F.					
6" WATER	113 L.F.					
FIRE HYDRANTS	4 EACH					
I" WATER	115 L.F.					
12" X 6" TEE	2 EACH					
12" X 6" TEE	4 EACH					
12" X 8" CR055	1 EACH					
12" VALVE	2 EACH					
Ø" VALVE	4 EACH					
6" VALVE	4 EACH					
12"-1/8 H.B.	2 EACH					
Ø" PLUG & BUTTRESS	3 EACH					
OUTSIDE METER SETTING	1 EACH					
NAME OF UTILITY CONTRACTOR:						
SURVEY & DRAFTING DIVISION AS-BUILT DATE:						

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 A 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

FOR WAVERLY WOODS DEVELOPMENT CORP. 03/30/01

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



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

U.5, B.A. NATURAL RESOURCES CONSERVATION SERVICE / DATE

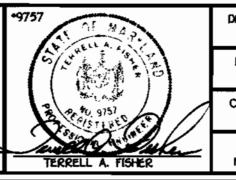
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

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 FO1-91.

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING





DRAWN BY M.D.T. CHECKED BY P.W.K. DATE : **MARCH, 2001** REVISION

WATER MAINS TITLE SHEET

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. 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 6. 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES 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.. - UNDER GROUND DAMAGE CONTROL - 787-9068 MI55 UTILITY - 1-800-257-7777

- COLONIAL PIPELINE CO. 795-1390 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. 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.

N. 539,000

PLAN REFERENCE NUMBERS:

P 00-18; F01-91

- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 15. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52. 16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE
- NOTED ON THE PLANS OR IN THE SPECIFICATIONS. 17. HOUSE(5) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS,
- 20. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (I) FOOT SEPARATION FROM THE SEWER
- MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT. 21. ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (WI.II AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 27. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH
- 28. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, . (410) 313-2450 AT LEAST FIVE 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 DPW REQUIREMENTS PER SECTION 18.114(a) OF

BENCHMARK INFORMATION

B.M.*1 - HOWARD COUNTY CONTROL STATION *1012 (NAD '83)
(NEAR THE INTERSECTION OF MARYLAND ROUTE 99 & WOODSTOCK ROAD)
N 601,060.177 E 1,345,336.750

ELEVATION = 445.577 B.M.*2 - HOWARD COUNTY CONTROL STATION . 16E1 (NAD '83) (NEAR THE INTERSECTION OF U.S. ROUTE 40 & MARRIOTTSVILLE ROAD)

E 1,340,192,711 ELEVATION = 509.924

CONTRACT No. 44-3921-D

VICINITY MAP

TO MARRIOTTSVILLE ROAD

GTW'S WAVERLY WOODS

SECTION 11; AREA 1

CONTRACT NO. 44-3921-0

GTW'S WAVERLY WOODS

SECTION 11; AREA 1 WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

> CONTRACT NO. 44-3921-D GTW'S WAVERLY WOODS SECTION 11; AREA 1 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

GTW'S WAVERLY WOODS

SECTION 11; AREA 1 CONTRACT NO. 44-3921-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET or 5

SCALE

SHOWN

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

4-3-01

WATER & SEWER CODE

WATER ZONE:

DRAINAGE AREA:

FOR COUNTY USE ONLY

YPE OF BUILDING: KESIDENTIAL

NO. OF WATER HOUSE CONNECTIONS:

NO. OF SEWER HOUSE CONNECTIONS:

TREATMENT PLANT: NOT APPLICABLE

WATER TEST GRADIENT: 780

NUMBER OF LOTS & PARCELS: 5 (5 BUILDABLE: FUTURE)

PATAP5CO

FILE NAME : K:/30686 FINAL WATER TITLE SHT

600' SCALE MAP NO. ___16___ BLOCK NO. _

F.C.C. WORK ORDER NO. ____30606

EX. GROUND AT & ROAD

---PROPOSED GRADE

EX. GROUND AT @ ROAD -

DORCHESTER WAY

→ EX. GROUND AT © ROAD

1+00 - ' 472.69 1+50 ---. 470.02

> 2+24.10 - 12*X0* Tee 463.66

EX. 12" W; (CONT. NO. 24-3780-D) ---

0+00 -----'
REMOVE EX. 12*
PLUG & BUTTRESS
& CONNECT TO
EX. 12* W
477.30

495

DEPARTMENT OF PUBLIC WORKS

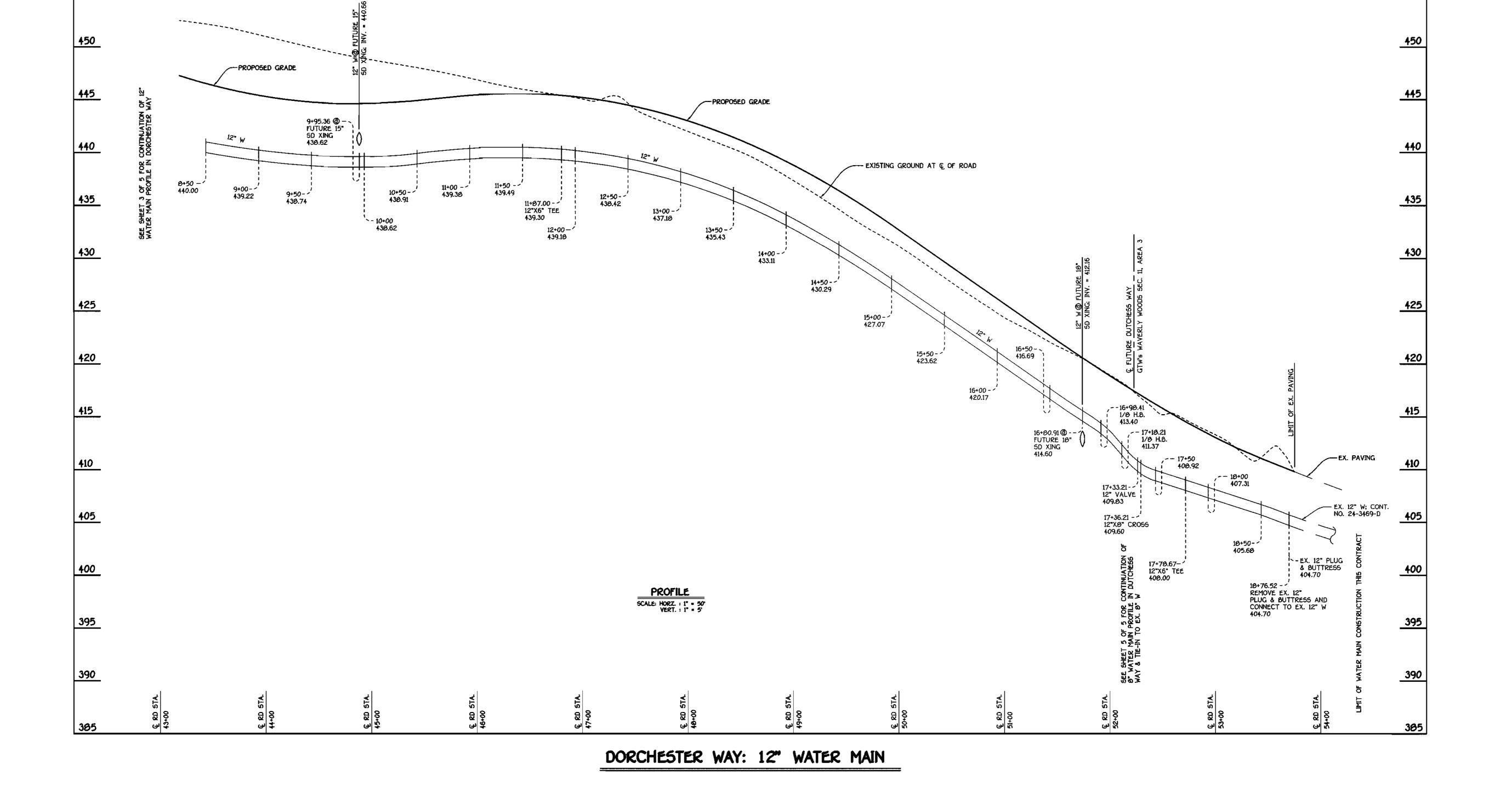
4-3-01

HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

4/6/01 DATE FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



DESIGNED BY : M.D.T.

DRAWN BY

M.D.T.

CHECKED BY :

P.W.K.

DATE :

MARCH, 2001

REVISION

CONTRACT NO. 44-3921-D

GTW'S WAVERLY WOODS

SECTION 11: AREA 1

WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

SCALE AS

SHOWN

SHEET

4 of 5

GTW'S WAVERLY WOODS

SECTION 11; AREA 1 CONTRACT NO. 44-3921-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

WATER MAINS PROFILES

600' SCALE MAP NO. ___16___ BLOCK NO. ___

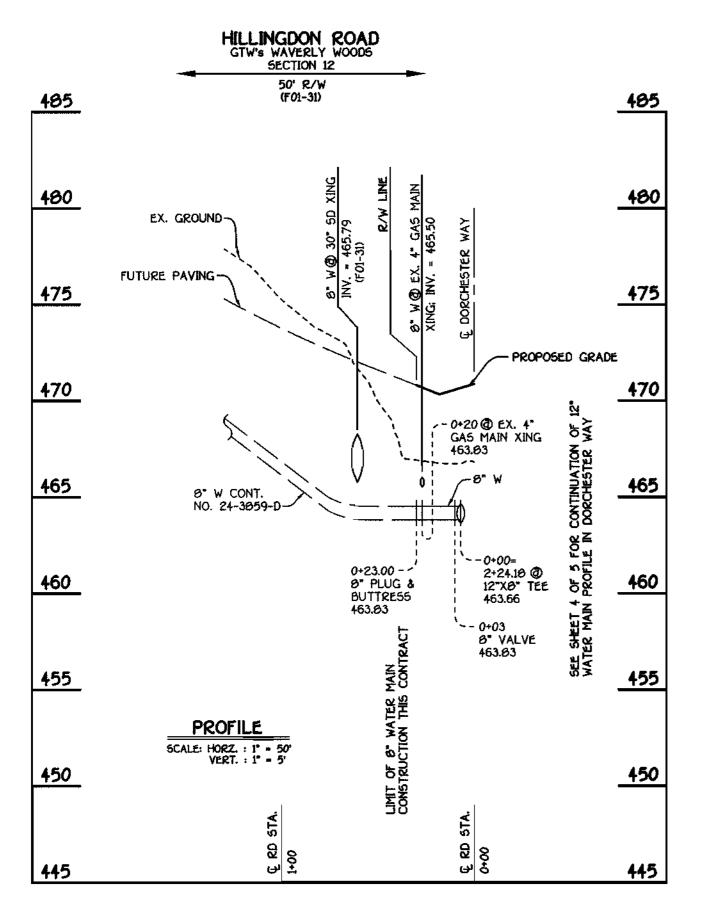
DATE FILE NAME : K:/30686 FINAL WATER PROFILES SHT 4

F.C.C. WORK ORDER NO. 30666

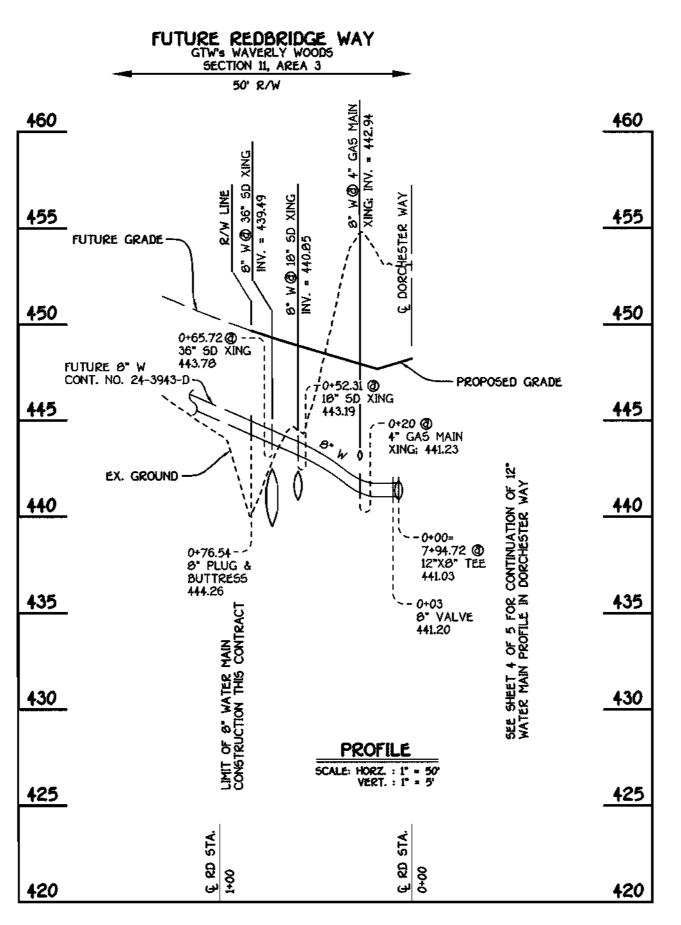
DORCHESTER WAY

60' R/W

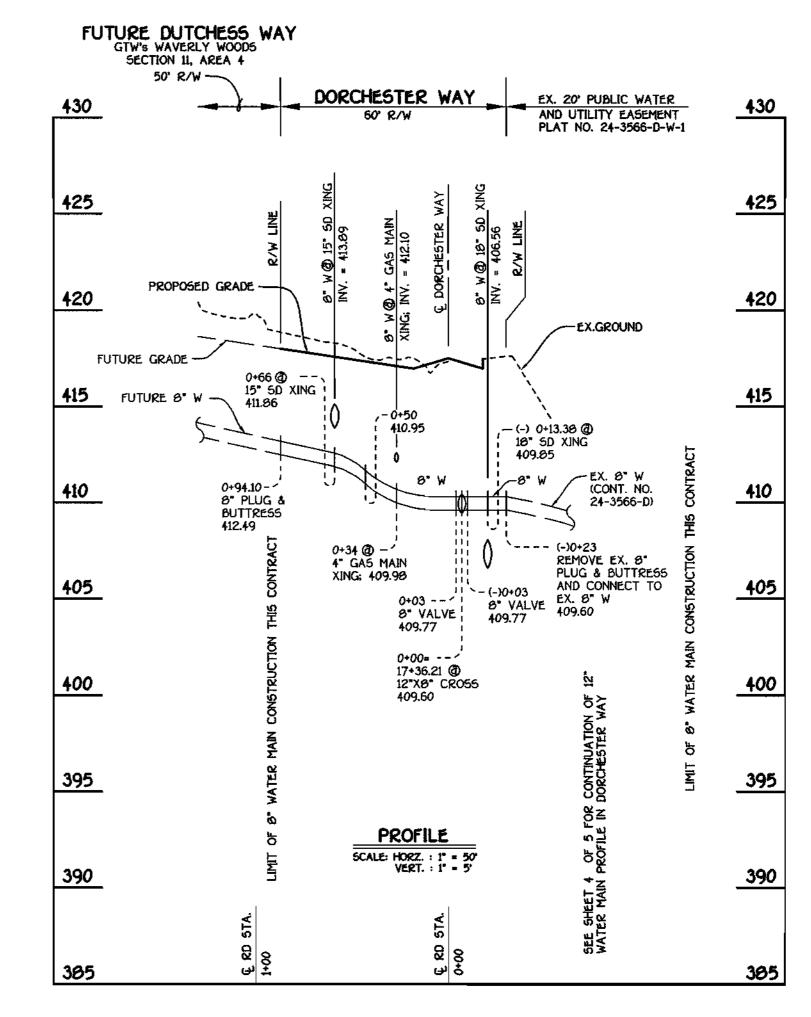
WATER MAIN TABULATION CHART						
WM STATION	APPURTENANCE	© ROAD STATION	DISTANCE			
	DORCHESTER WAY					
0+00	P.C. (CRIMP RADIUS = 930.00'; CONNECT TO EX. 12" W	34+97 <i>.0</i> 6	7' LT.			
2+24.19	12" X 8" TEE	37+19.50	7' LT.			
2+98.77	12" X 6" TEE	37+93.56	7' LT.			
7+91.72	12" VALVE	42+82.85	7' LT.			
7+94.72	12" X Ø" TEE	42+85.85	7' LT.			
8+42.85	12" X 6" TEE	43+33.62	7' LT.			
11+87.00	12" X 6" TEE	46+75.20	7' LT.			
15+66.59	P.T. (CRIMP RADIUS = 938.08')	50+51.96	7' LT.			
16+90.41	1/8 H.B.	51+63.76	7' LT.			
17+16.21	1/8 H.B.	51+97.79	7' RT.			
17+33.21	12" VALVE	52+12.78	7' RT.			
17+36.21	12" X Ø" CR055	52+15.7 0	7' RT.			
17+78.67	12" X 6" TEE	52+59.90	7' RT.			
10+67.05	P.C. (CRIMP RADIUS = 707.00')	53+46.62	7' RT.			
18+76.52	CONNECT TO EX. 12" W	53+55.99	7' RT.			
	FUTURE HILLINGDON RO	AD				
0+00	12" X 0" TEE	0+07	7' LT.			
0+03	6" VALVE	0+10	7' LT.			
0+23	0" PLUG & BUTTRESS	0+30	7' LT.			
	FUTURE REDBRIDGE WA	Υ				
0+00	12" X 9" TEE	0+07	7" LT.			
0+03	8" VALVE	0+10	7° LT.			
0+76.54	0" PLUG & BUTTRESS	0+03.53	7' LT.			
FUTURE DUTCHESS WAY						
(-) 0+23	CONNECT TO EX. 6" W	(-) 0+30	7° LT.			
(-) 0+03	6* VALVE	(-) O+10	7' LT.			
0+00	12" X 6" CR055	(-) 0+07	7° LT.			
0+03	8" VALVE	(-) 0+04	7° LT.			
0+94.10	6" PLUG & BUTTRESS	0+87.10	プ LT.			



HILLINGDON ROAD: 8" WATER MAIN



FUTURE REDBRIDGE WAY: 8" WATER MAIN



FUTURE DUTCHESS WAY: 8" WATER MAIN

CONTRACT NO. 44-3921-D

GTW'S WAVERLY WOODS

SECTION 11; AREA 1

WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND



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3	2.40. 9757	1/2
_23		11/2
TE	RRECEMENTS ER	,

DESIGNED BY :					
M.D.T.					WATED MAINS
Drawn by : M.D.T.					WATER MAINS PROFILES
					1 101 1220
CHECKED BY : P.W.K.			-	1	
r.w.k.				+	600' 5CALE MAP NO16 BLOCK NO5
DATE :					F.C.C. WORK ORDER NO. 30686
MARCH, 2001	BY	NO.	revision	DATE	FILE NAME : K:/30606 FINAL WATER PROFILES SHT 5
					(tob 117) (b ·

GTW'S WAVERLY WOODS

SECTION 11; AREA 1 CONTRACT NO. 44-3921-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHOWN
SHEET
5 of 5

SCALE

		QUANTIT:	IES	
			A5-BUILT	
ITEM	ESTIMATED	QUANTITIES	TYPE	SUPPLIER
12" WATER	1,877 L.F.	1879	D.J.P.	GRIFFIN PIPE
O" WATER	217 L.F.	215	P	ų v
6" WATER	113 L.F.	125	11	\(\mu = \frac{1}{2}\)
FIRE HYDRANTS	4 EACH	4		MUELLER
1" WATER	115 L.F.	115		READING TOBE
12" X 0" TEE	2 EACH	2	D.1.P.	U.S. PIPE FROMO
12" X 6" TEE	4 EACH	4	**	49 4 29
12" X Ø" CR055	1 EACH	1	**	4 6 9
12" VALVE	2 EACH	2		MUELLER
8" VALVE	4 EACH	4		
6" VALVE	4 EACH	4		u,
12"-1/0 H.B.	2 EACH	3		U.S. PIPE & FOLKE
Ø" PLUG & BUTTRESS	3 EACH	3		e e 41
OUTSIDE METER SETTING	1 EACH	1	BRASS	BELAIR ROAD SUPPLY
	_			

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 A 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

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

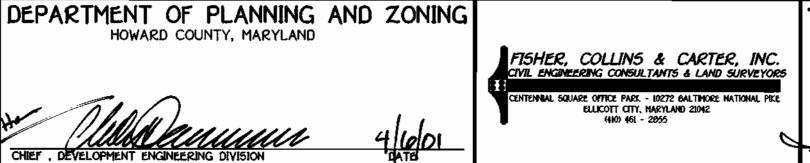
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.5,B.A. NATURAL RESOURCES CONSERVATION SERVICE THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

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 FO1-91.

BULW: Kniddel FOR DEVELOPMENT CORP. 03/30/01 SIGNATURE OF DEVELOPER

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



-WATER ZONE DEMARCATION LINE

WATER & SEWER CODE

FOR COUNTY USE ONLY

WATER TEST GRADIENT: 700

NUMBER OF LOTS & PARCELS: 5 (5 BUILDABLE: FUTURE)

PATAP5CO

WATER NO.: HOS

TYPE OF BUILDING: RESIDENTIA

NO. OF WATER HOUSE CONNECTIONS:

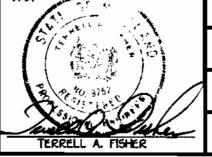
TREATMENT PLANT: NOT APPLICABLE

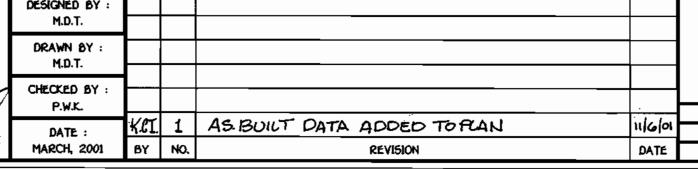
NO. OF SEWER HOUSE CONNECTIONS:

SEWER NO.:

DRAINAGE AREA:

FUTURE





GENERAL NOTES

- 1. 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. 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MENEMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 6. 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES 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.. - UNDER GROUND DAMAGE CONTROL - 707-9060 MISS UTILITY - 1-800-257-7777 COLONIAL PIPELINE CO. - 795-1390

- BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 313-4900 9. 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 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.

N. 539,000

P 00-18; F01-91

- 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 G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 17. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS,
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (I) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (WILLI AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 27. ALL D.J.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH
- 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, ◆ (410) 313-2450 AT LEAST FIVE 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 DPW REQUIREMENTS PER SECTION 10.114(a) OF

BENCHMARK INFORMATION

8.M.-1 - HOWARD COUNTY CONTROL STATION -1012 (NAD '83)
(NEAR THE INTERSECTION OF MARYLAND ROUTE 99 & WOODSTOCK ROAD) E 1,345,336.750

ELEVATION = 445.577 B.M.*2 - HOWARD COUNTY CONTROL STATION . 16E1 (NAD '83)

(NEAR THE INTERSECTION OF U.S. ROUTE 40 & MARRIOTTSVILLE ROAD)

CONTRACT No. 44-3921-D

VICINITY MAP

5CALE: 1"=600"

TO MARRIOTTSVILLE ROAD

GTW'S WAVERLY WOODS

SECTION 11; AREA 1

CONTRACT NO. 44-3921-D

GTW'S WAVERIY WOODS

SECTION 11; AREA 1 WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

> CONTRACT NO. 44-3921-D GTW'S WAVERLY WOODS SECTION 11; AREA 1 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

GTW'S WAVERLY WOODS

SECTION 11; AREA 1 CONTRACT NO. 44-3921-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

FILE NAME : K:/30686 FINAL WATER TITLE SHT

600' SCALE MAP NO. 16 BLOCK NO. _ F.C.C. WORK ORDER NO. ____30686

WATER MAINS

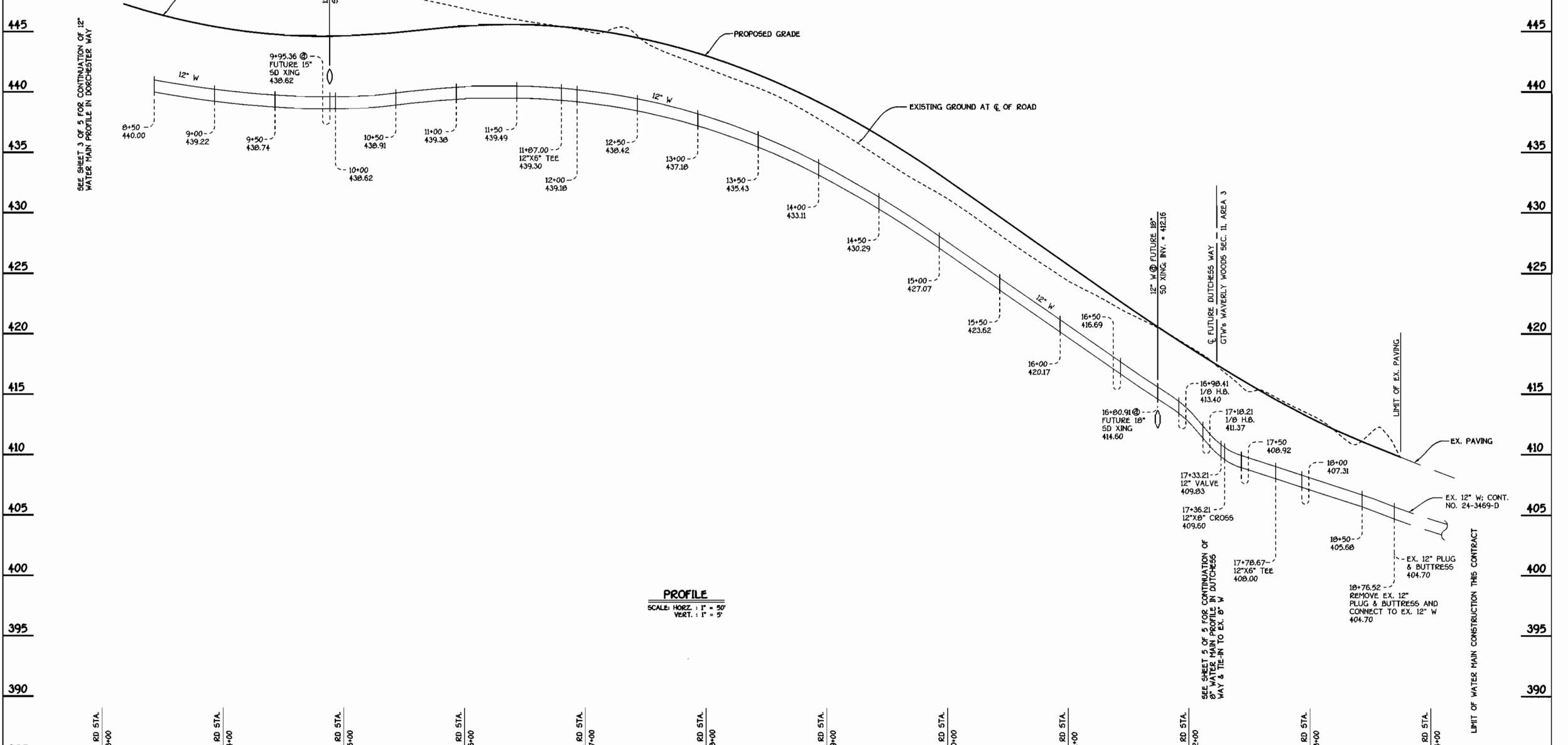
TITLE SHEET

or 5

SHOWN

DORCHESTER WAY

-PROPOSED GRADE



CONTRACT NO. 44-3921-D GTW'S WAVERLY WOODS SECTION 11; AREA 1

GTW'S WAVERLY WOODS

SECTION 11; AREA 1

CONTRACT NO. 44-3921-D

THIRD ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

SCALE AS

SHOWN

SHEET

4 of 5

DORCHESTER WAY

60' R/W

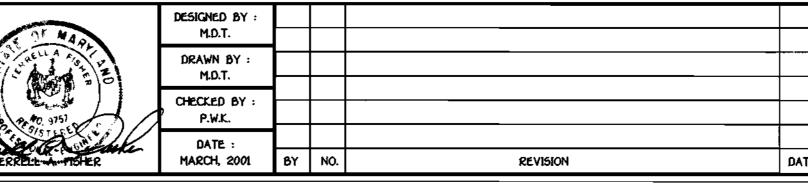
DEPARTMENT OF PUBLI HOWARD COUNTY, MARYLAN		DEPARTMENT OF PLANNING AND HOWARD COUNTY, MARYLAND	ZONIN
CHIEF, BUREAU OF UTILITIES	4-3-01 DATE	CHIEF, DEVELOPMENT ENGINEERING DIVISION	4/6/0

PROFILE

SCALE: HORZ.: 1" = 50"

VERT.: 1" = 5"

IG		•9757
<u>.</u>	FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (440) 461 - 2855	



435

430

425

420

WATER MAINS PROFILES 600' SCALE MAP NO. ___16___ BLOCK NO. _ F.C.C. WORK ORDER NO. ____30606

CONTRACT NO. 44-3921-D GTW'S WAVERLY WOODS SECTION 11; AREA 1 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND GTW'S WAVERLY WOODS

FUTURE REDBRIDGE WAY: 8" WATER MAIN

0+65.72 (0) ---36" 5D XING 443.78 70+52.31 @ 10° 5D XING 443.19 - 0+20 @ 4" GAS MAIN XING; 441.23 EX. GROUND -8" PLUG & BUTTRESS "-- 0+03 B* VALVE 441.20 430 PROFILE SCALE: HORZ. : 1° = 50° VERT. : 1° = 5' 425

FUTURE REDBRIDGE WAY

SECTION 11, AREA 3

50' R/W

AND UTILITY EASEMENT PLAT NO. 24-3566-D-W-1 420 EX.GROUND FUTURE GRADE -0+66 @ --\ 15* 5D XING \ 411.06 \ 415 FUTURE 8" W -— (-) 0+13.38 @ 18" 5D XING 409.85 EX. 8" W (CONT. NO. 24-3566-D) 0+94.10- / 6" PLUG & BUTTRESS 412.49 410 (-)0+23
REMOVE EX. 8"
PLUG & BUTTRESS
AND CONNECT TO
EX. 8" W
409.77 0+34 @ - ' 4" GA5 MAIN XING; 409.90 405 405 8" VALVE 409.77 400 395 395 390

DORCHESTER WAY

EX. 20' PUBLIC WATER

FUTURE DUTCHESS WAY: 8" WATER MAIN

HILLINGDON ROAD: 8" WATER MAIN

WATER MAIN TABULATION CHART

DORCHESTER WAY

APPURTENANCE

P.C. (CRIMP RADIUS = 936.06); CONNECT TO EX. 12" W

12" X 8" TEE

12" X 6" TEE

12" VALVE

12" X 8" TEE

12" X 6" TEE

12" X 6" TEE

P.T. (CRIMP RADIUS = 938.08')

1/8 H.B.

1/8 H.B.

12" VALVE

12" X 8" CR055

12" X 6" TEE

P.C. (CRIMP RADIUS = 707.00')

12" X 8" TEE

8" VALVE

9" PLUG & BUTTRESS

12" X 8" TEE

8" VALVE

CONNECT TO EX. 6" W

8" VALVE

12" X 8" CRO55

8" VALVE

0" PLUG & BUTTRESS

HILLINGDON ROAD GTW'S WAVERLY WOODS

SECTION 12

50° R/W (F01-31)

O" PLUG & BUTTRESS

CONNECT TO EX. 12" W

FUTURE HILLINGDON ROAD

FUTURE REDBRIDGE WAY

FUTURE DUTCHESS WAY

Q ROAD STATION

34+97.06

37+19.50

37+93.56

42+82.85

42+85.85

43+33.62

46+75.20

50+51.96

51+83.78

51+97.79

52+12.78

52+15.78

52+59.98

53+46.62

53+55.99

0+10

0+30

0+07

0+83.53

(-) 0+30

(-) 0+10

(-) 0+07

(-) 0+04

0+87.10

- PROPOSED GRADE

-0+20@ EX. 4* GAS MAIN XING

~-0+00= 2+24.18 @ 12"X8" TEE 463.66

8" VALVE 463.83

0+23.00 - - ' 0" PLUG & BUTTRESS 463.03

DISTANCE

7' LT.

7' LT.

7' LT.

7' LT.

7° LT.

7' LT.

7" LT.

7' LT.

7' LT. 7' RT.

7' RT.

7" RT.

7° RT.

7° RT. 7' RT.

7' LT.

7' LT.

7' LT.

7' LT.

7' LT.

7' LT.

ን LT.

7' LT.

7° LT.

7' LT.

7' LT.

WM STATION

0+00

2+24.19 2+98.77

7+91.72

7+94.72

8+42.85

11+87.00

15+66.59

16+98.41

17+16.21

17+33.21

17+36.21

17+78.67

18+67.05

18+76.52

0+00

0+03

0+23

0+00 0+03

0+76.54

(-) 0+23

(-) *0+03*

0+00

0+03

0+94.10

EX. GROUND-

FUTURE PAVING

470

450

SECTION 11; AREA 1 CONTRACT NO. 44-3921-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

DATE FILE NAME : K:/30686 FINAL WATER PROFILES SHT 5

FUTURE DUTCHESS WAY
GTW'S WAVERLY WOODS

SECTION 11, AREA 4 50' R/W ---

5 or 5