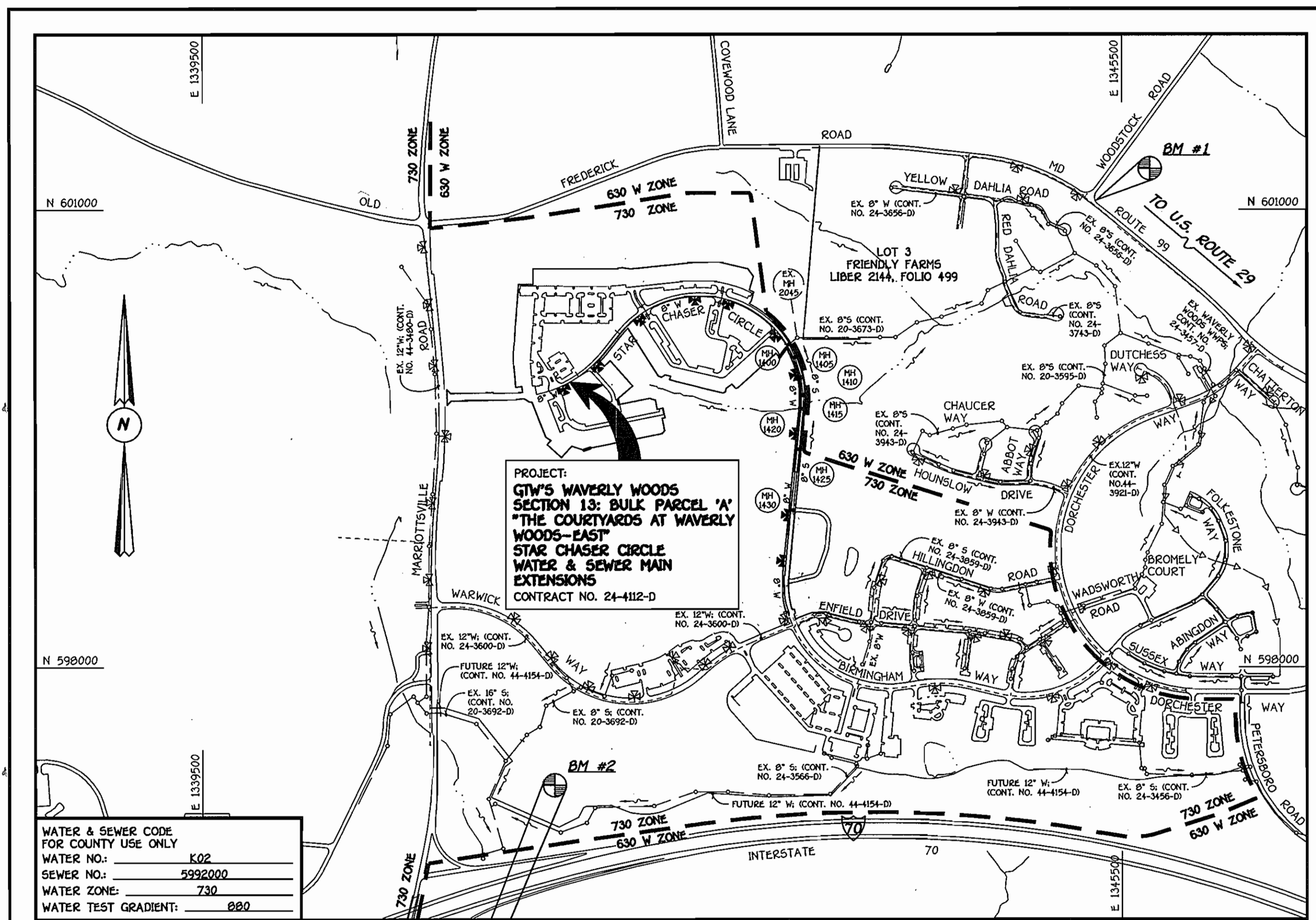


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" SEWER	754.00 LF.	T&G	SDR	JM MFG
8" SEWER (D.I.P.)	400.00 LF.	ΔIG	D.I.P.	JM MFG
MANHOLES	7 EACH	7	PRECAST	ATLANTIC
8" WATER	4,175.31 LF.	4,165	D.I.P.	JM MFG
6" WATER	144.72 LF.	128	D.I.P.	JM MFG
FIRE HYDRANTS	10 EACH	10		MUELLER
8" X 8" TEE	5 EACH	5	DUCTILE	"
8" X 6" TEE	10 EACH	10	DUCTILE	J.M.MFG/BRB
8" X 8" CROSS	2 EACH	2	DUCTILE	MUELLER
12" X 8" REDUCER	1 EACH	1	DUCTILE	"
8" VALVE	13 EACH	13	RS&V	"
6" VALVE	10 EACH	10	"	"
8" PLUG & BUTTRESS	11 EACH	11	"	"
AIR RELEASE MH	2 EACH	2	PRECAST	ATLANTIC

NAME OF UTILITY CONTRACTOR: C.C.S.
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: 8/11/05



WATER & SEWER CODE FOR COUNTY USE ONLY	K02
WATER NO.	5992000
WATER ZONE	730
WATER TEST GRADIENT	0.02

TYPE OF BUILDING: RESIDENTIAL (TOWNHOUSES & CONDOMINIUMS)	
NUMBER OF LOTS & PARCELS:	1 BULK PARCEL
NO. OF WATER HOUSE CONNECTIONS:	0
NO. OF SEWER HOUSE CONNECTIONS:	0
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION PLANT

VICINITY MAP
SCALE: 1"=600'

PLAN REFERENCE NUMBERS:
503-06, F04-50, 50P04-80

CONTRACT No. 24-4112-D
GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 "THE COURTYARDS @ WAVERLY WOODS-EAST"
 STAR CHASER CIRCLE
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

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 89.
 - 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
 - MISS UTILITY 410-531-5533
 - STATE HIGHWAY ADMINISTRATION 410-531-5533
 - VERIZON 1-800-743-0033/410-224-9210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE 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 THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 10.10(d) OF THE HOWARD COUNTY CODE.
- PART II: WATER
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH 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 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.92. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

BENCHMARK INFORMATION	
BM#1 - HOWARD COUNTY CONTROL STATION #1012 (NAD '83) (NEAR THE INTERSECTION OF MARYLAND ROUTE 99 & WOODSTOCK ROAD) N 601,060.177 E 1,345,336.759 ELEVATION = 445.577	
BM#2 - HOWARD COUNTY CONTROL STATION # 16E1 (NAD '83) (NEAR THE INTERSECTION OF U.S. ROUTE 40 & MARRIOTTVILLE ROAD) N 593,250.932 E 1,340,192.711 ELEVATION = 509.924	

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.

Paul W. Keibel FOR:
 Waverly Woods Development Corp. 07-13-04
 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.

Paul W. Keibel
 07/13/04
 SIGNATURE OF ENGINEER DATE

GP-04-75
 REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

J. S. [Signature] 7/22/04
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED:
 O.P. [Signature] 7/22/04
 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 SDP04-80 AND ON THESE PLANS.

Paul W. Keibel FOR:
 Waverly Woods Development Corp. 07-13-04
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DATE: [Signature] DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

DATE: [Signature] DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 9757 TERRELL A. FISHER
 PROFESSIONAL ENGINEER

STATE OF MARYLAND
 TERRELL A. FISHER
 PROFESSIONAL ENGINEER

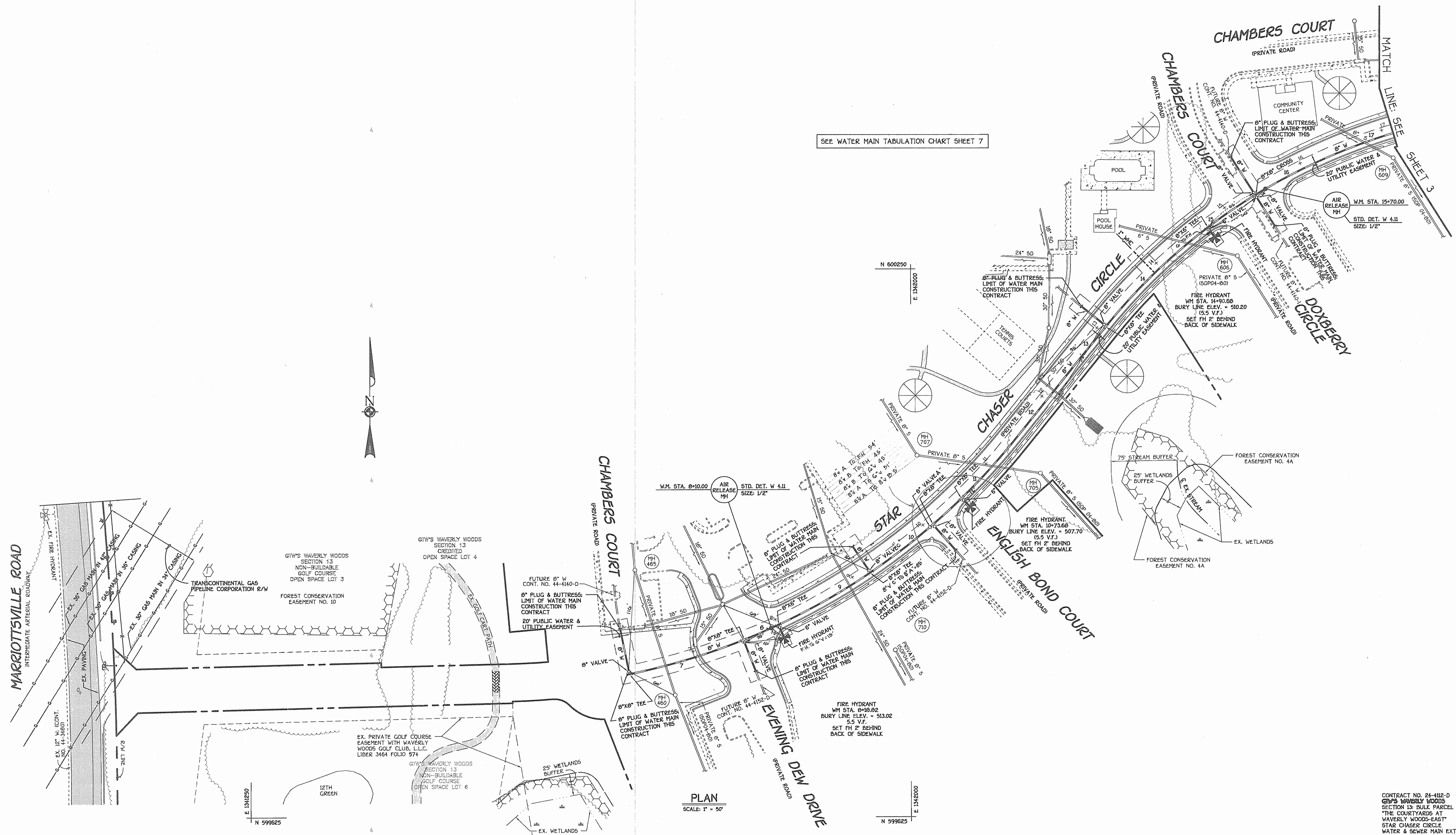
DESIGNED BY:	H.D.T.	
DRAWN BY:	H.D.T.	
CHECKED BY:	P.W.K.	
DATE:	JULY, 2004	
BY NO.		

WATER & SEWER MAINS TITLE SHEET	
600' SCALE MAP NO. 15	BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO. 40353	
DATE: 9/1/05	
REVISION: INDICATE REVISED LIMIT OF SEWER MAIN CONSTRUCTION	
FILE NAME: FINAL WATER MAINS TITLE SHEET	

GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 "THE COURTYARDS @ WAVERLY WOODS-EAST"
 STAR CHASER CIRCLE
 CONTRACT NO. 24-4112-D
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 10

CONTRACT NO. 24-4112-D
 GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 "THE COURTYARDS @ WAVERLY WOODS-EAST"
 STAR CHASER CIRCLE
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND



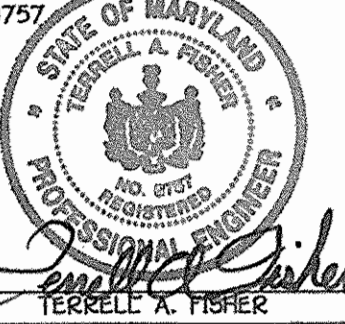
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

RLTB
7-20-04
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

DM
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21117
4101 461 - 2295



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

WATER & SEWER MAINS
PLAN VIEW

60' SCALE MAP NO. 16 BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO. 40353

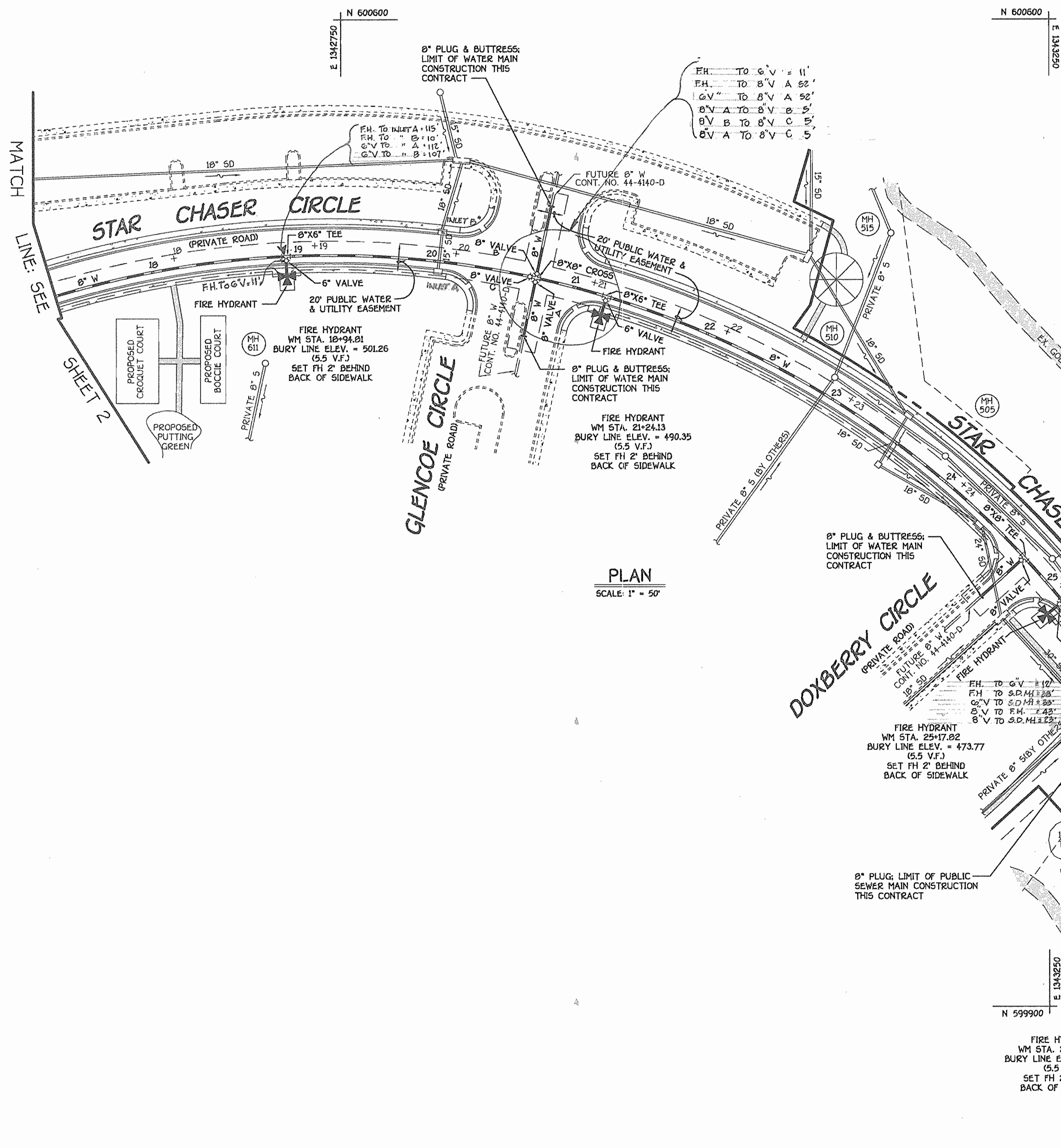
FILE NAME: FINAL WATER AND SEWER MAINS PLAN SHT. 2

GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
THE COURTYARDS AT WAVERLY WOODS-EAST
STAR CHASER CIRCLE
CONTRACT NO. 24-412-D
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
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SHOWN

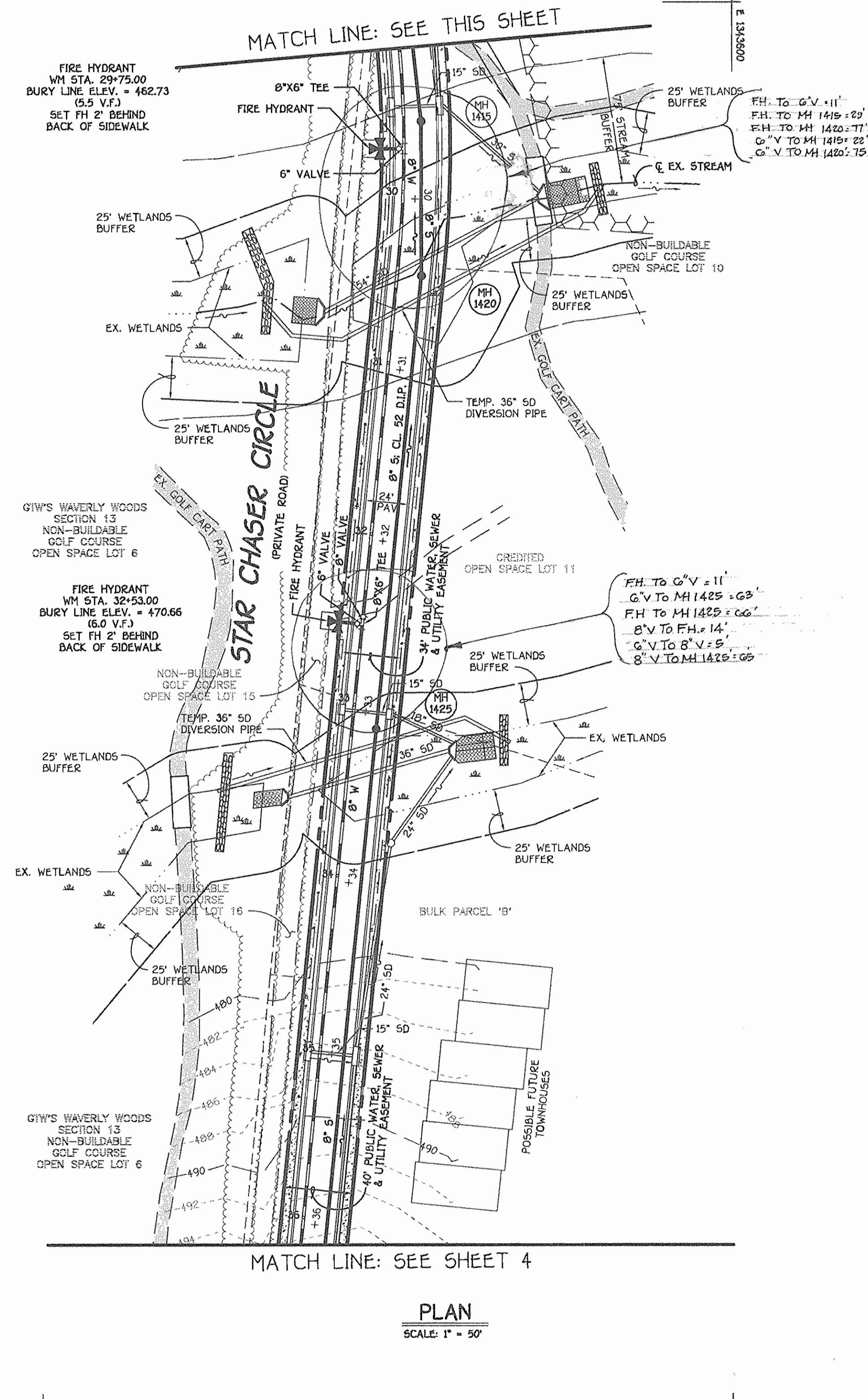
SHEET
2 of 10

CONTRACT NO. 24-412-D
GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
THE COURTYARDS AT
WAVERLY WOODS-EAST
STAR CHASER CIRCLE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



SEE WATER MAIN TABULATION CHART SHEET 7

PLAN
SCALE: 1" = 50'

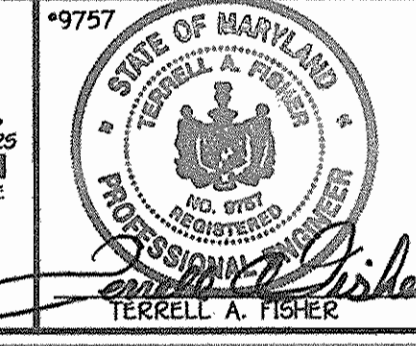


PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. H. B... 7-20-04
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
M... 8/4/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21112
(410) 401-1999



DESIGNED BY:	M.D.T.				
DRAWN BY:	M.D.T.				
CHECKED BY:	P.W.K.				
DATE:	JULY, 2004	KCT 1	AS BUILT DATA SHOWN	01/07/05	
BY NO.			REVISION	DATE	

WATER & SEWER MAINS PLAN VIEW	
600' SCALE MAP NO. 16	BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO. 40393	
FILE NAME: FINAL WATER AND SEWER MAINS PLAN SHT 3	

GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
"THE COURTYARDS AT WAVERLY WOODS-EAST"
STAR CHASER CIRCLE
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

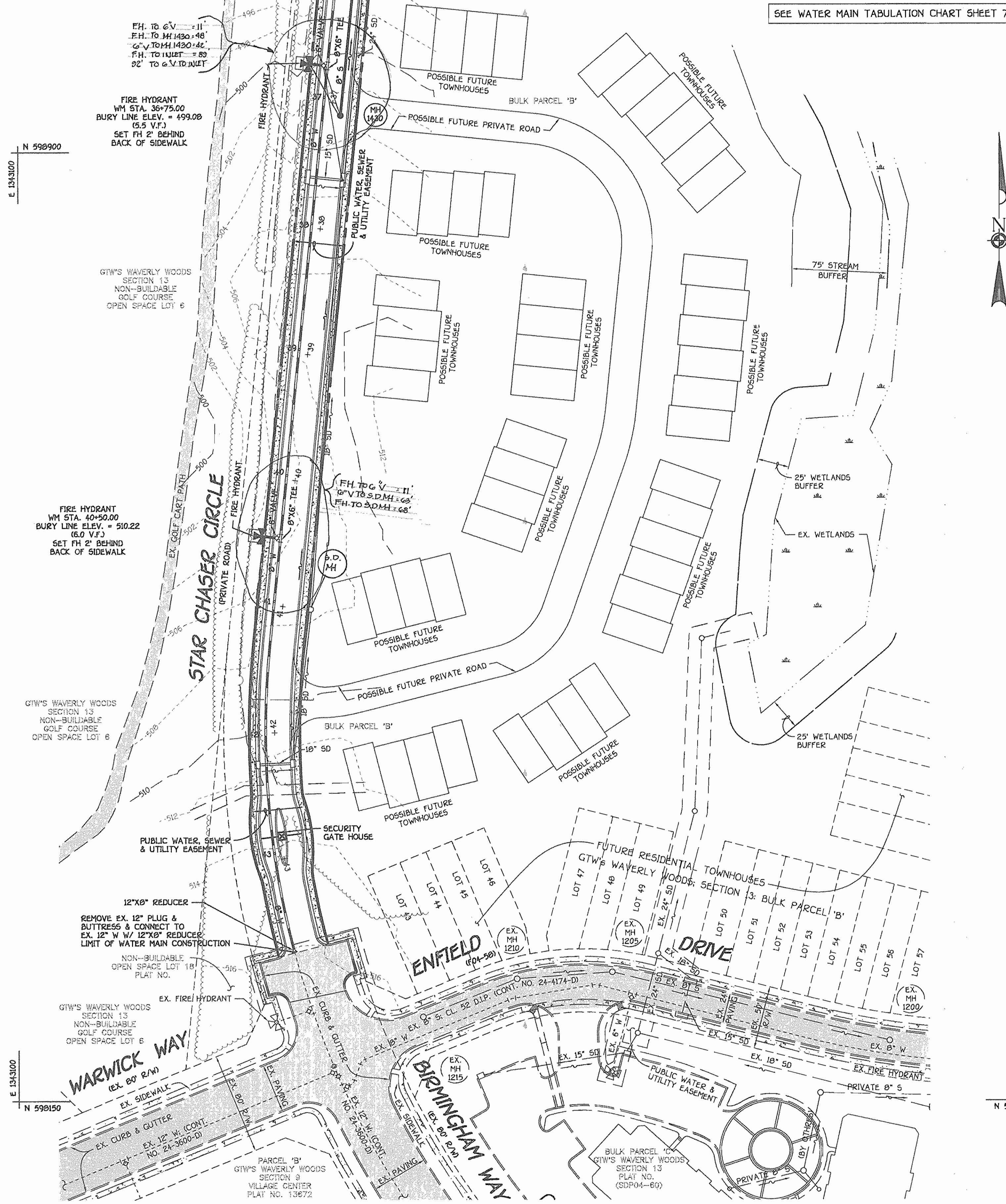
CONTRACT NO. 24-412-D
GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
"THE COURTYARDS AT WAVERLY WOODS-EAST"
STAR CHASER CIRCLE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

SCALE
AS SHOWN

SHEET
3 OF 10

MATCH LINE: SEE SHEET 3

SEE WATER MAIN TABULATION CHART SHEET 7



NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 10, SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING ON AUGUST 4, 2004.

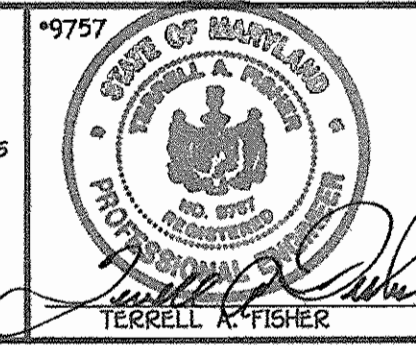
PLAN
SCALE: 1" = 50'

CONTRACT NO. 24-412-D
GTW'S WAVERLY WOODS
SECTION 13- BULK PARCEL 'A'
"THE COURTYARDS AT WAVERLY WOODS-EAST"
STAR CHASER CIRCLE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Ruth Berman
CHIEF, BUREAU OF UTILITIES
DATE: 2-1-05

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
William D. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 2/1/05

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21114
(410) 461-2995



DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.K.		
DATE:	JANUARY, 2005		
BY NO.	KC1 1	ASBUILT DATA SHOWN	
REVISION			

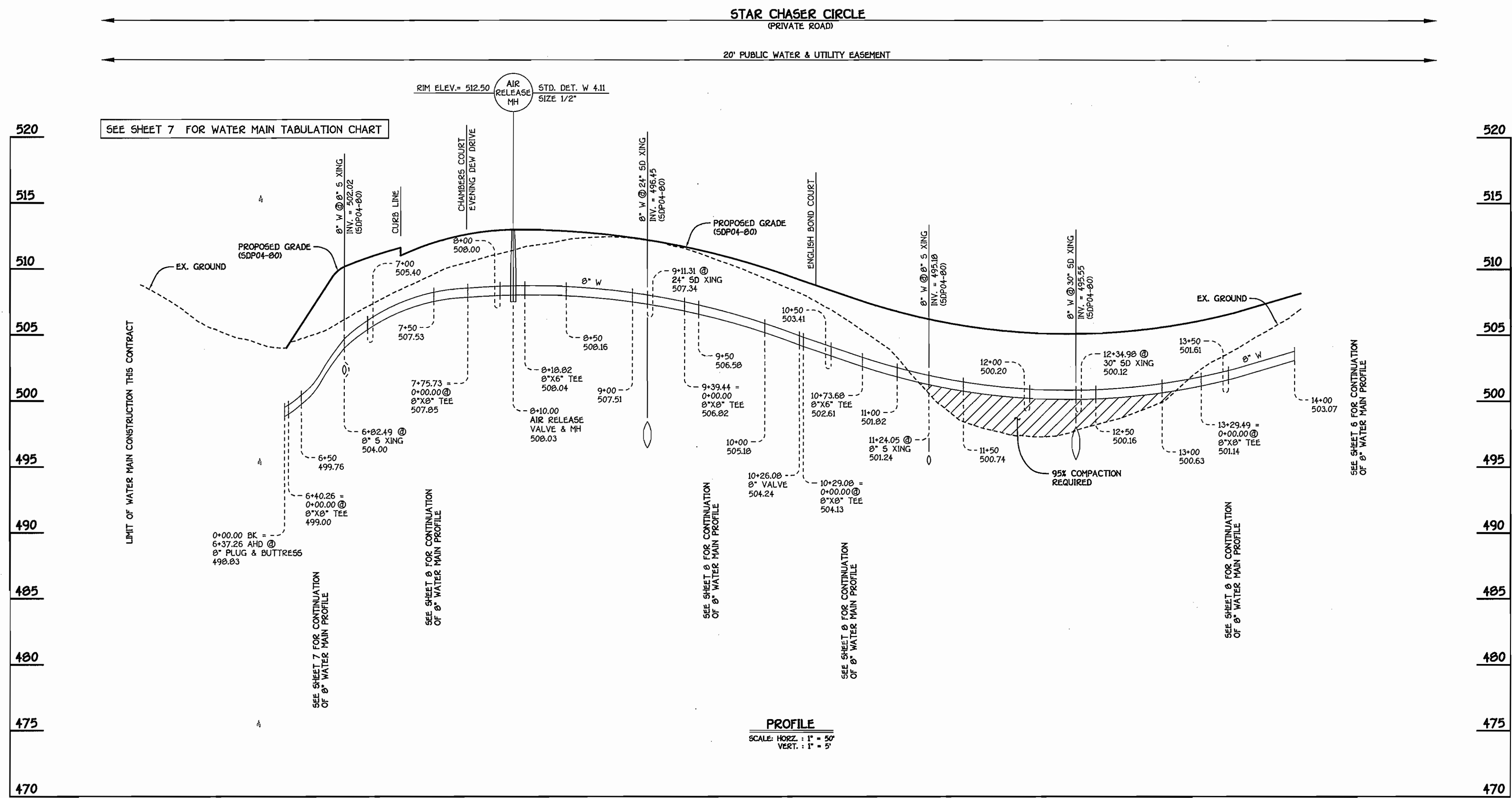
**WATER & SEWER MAINS
PLAN VIEW**

600' SCALE MAP NO. 16 BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO. 40323
FILE NAME: FINAL WATER AND SEWER MAINS PLAN SHT. 4.

GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
"THE COURTYARDS AT WAVERLY WOODS-EAST"
STAR CHASER CIRCLE
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
4 OF 10



8" WATER MAIN EXTENSION: STAR CHASER CIRCLE

CONTRACT NO. 24-4112-D
GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert D. ...
 CHIEF, BUREAU OF UTILITIES
 DATE: 7-20-04

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/4/04

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2295

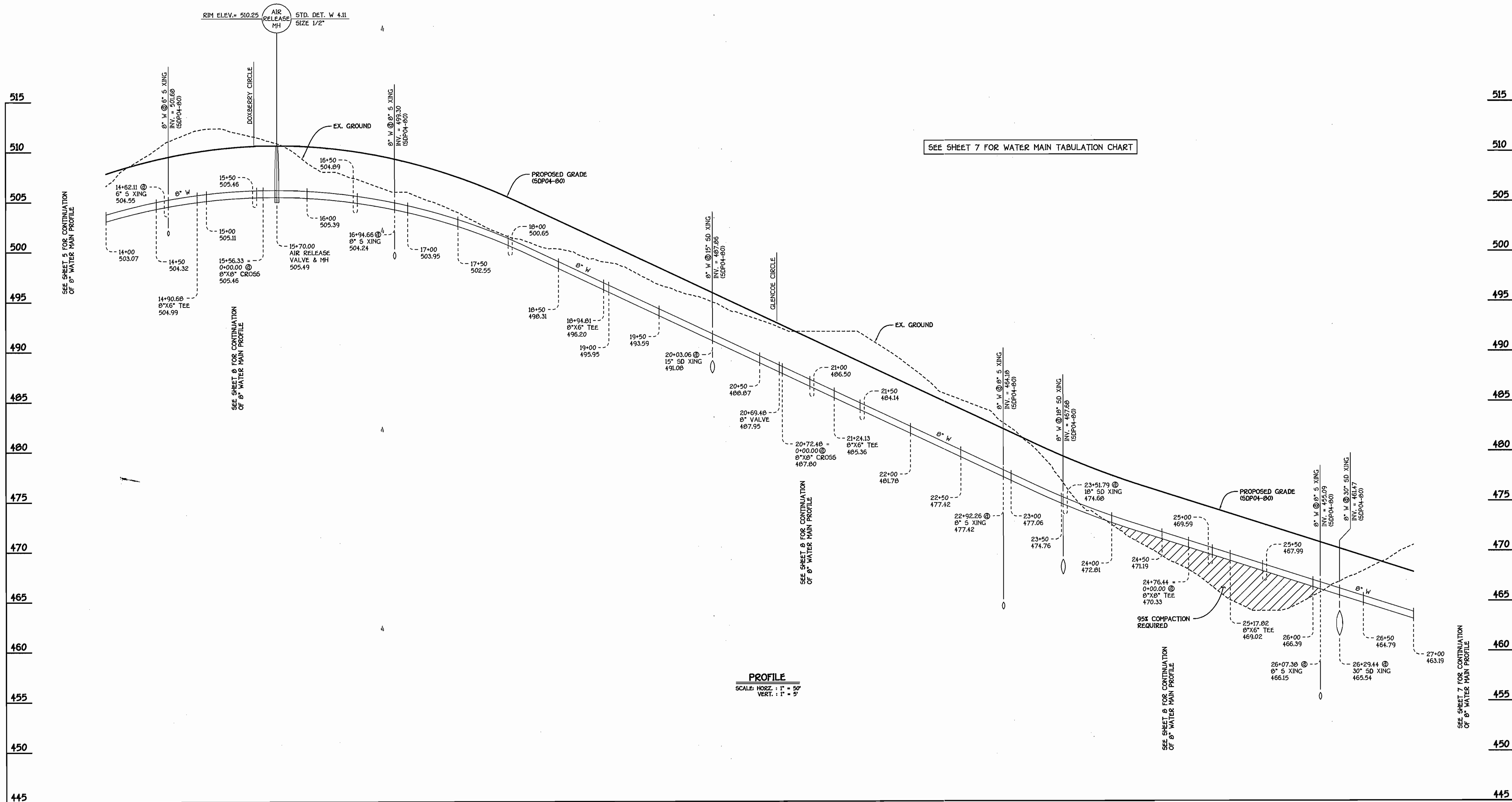
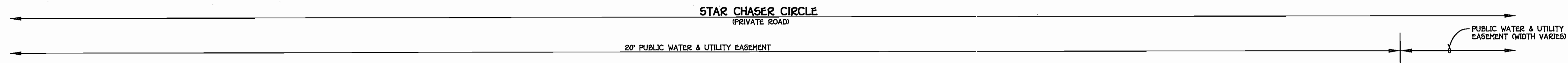


DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.K.		
DATE:	JULY, 2004	BY:	NO.
		REVISION	

WATER MAIN PROFILE	
600' SCALE MAP NO. 15	BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO. 40353	
FILE NAME: FINAL WATER MAIN PROFILE SHT 5	

GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 10



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

8" WATER MAIN EXTENSION: STAR CHASER CIRCLE

CONTRACT NO. 24-412-D
GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
"THE COURTYARDS AT
WAVERLY WOODS-EAST"
STAR CHASER CIRCLE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. J. ...
7-20-04
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
04/04
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1109 401 - 2955

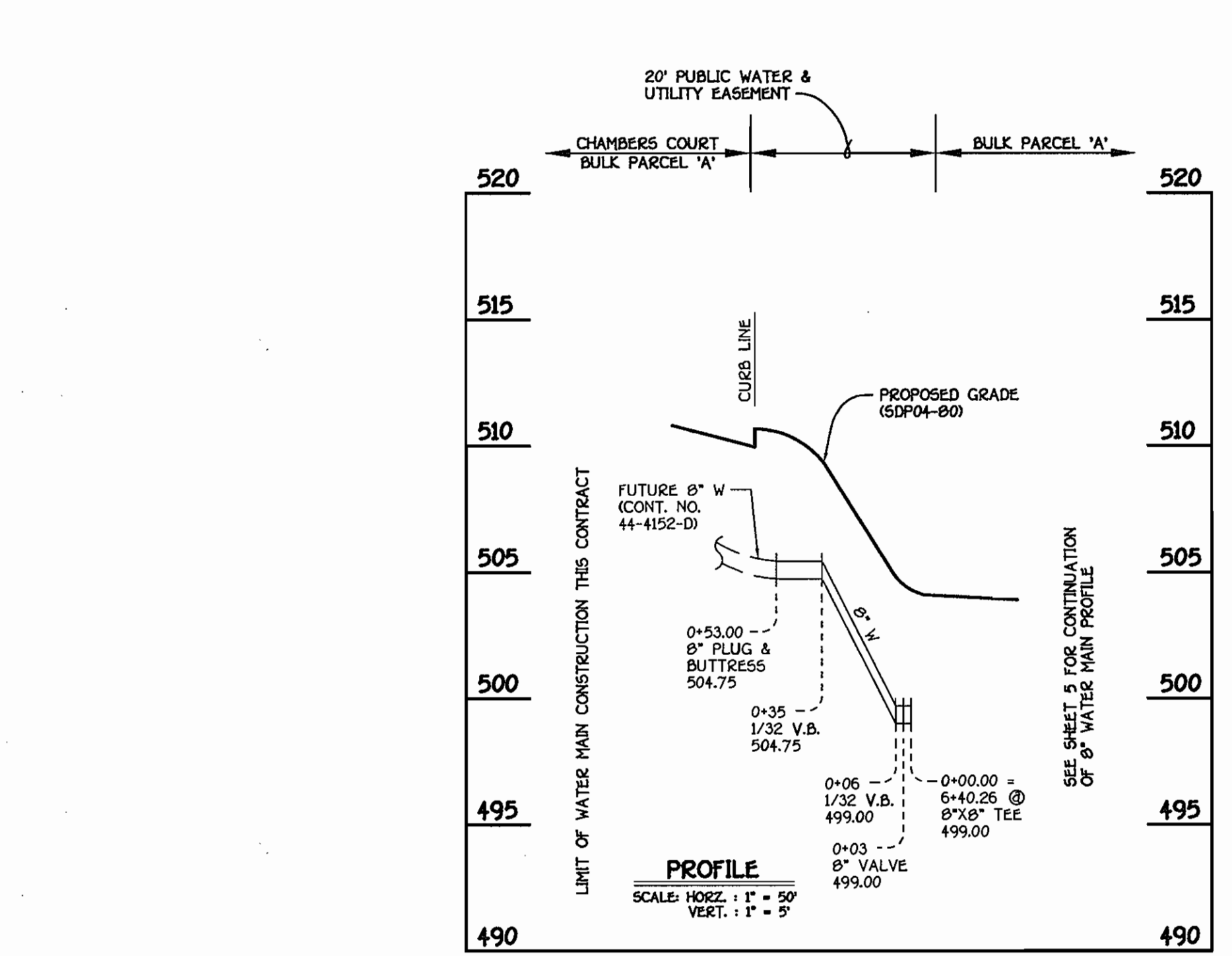
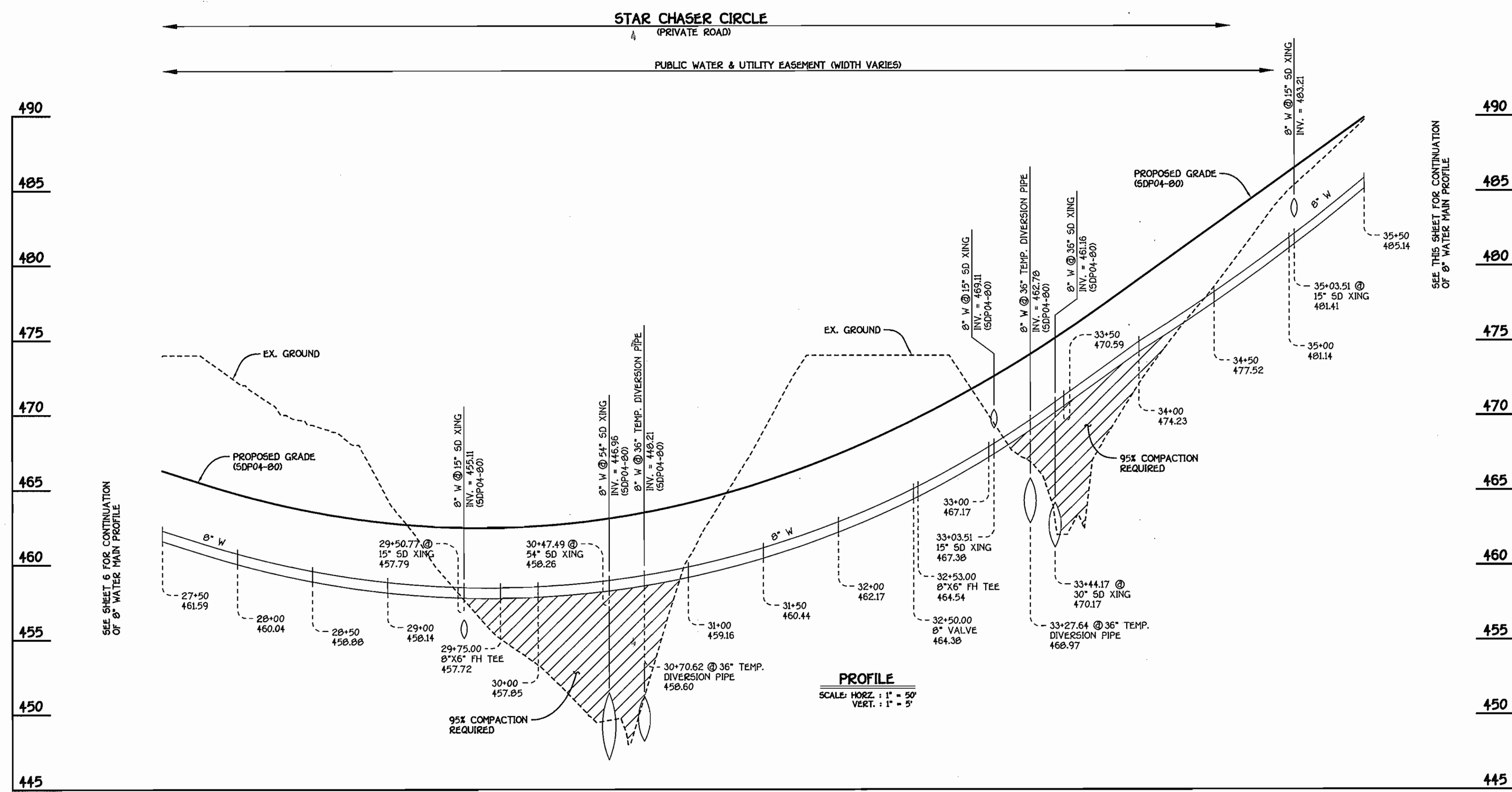


DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JULY, 2004
BY NO.	
REVISION	
DATE	

WATER MAIN PROFILE	
600' SCALE MAP NO. 15	BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO. 40353	
FILE NAME: FINAL WATER MAIN PROFILE SHT. 6	

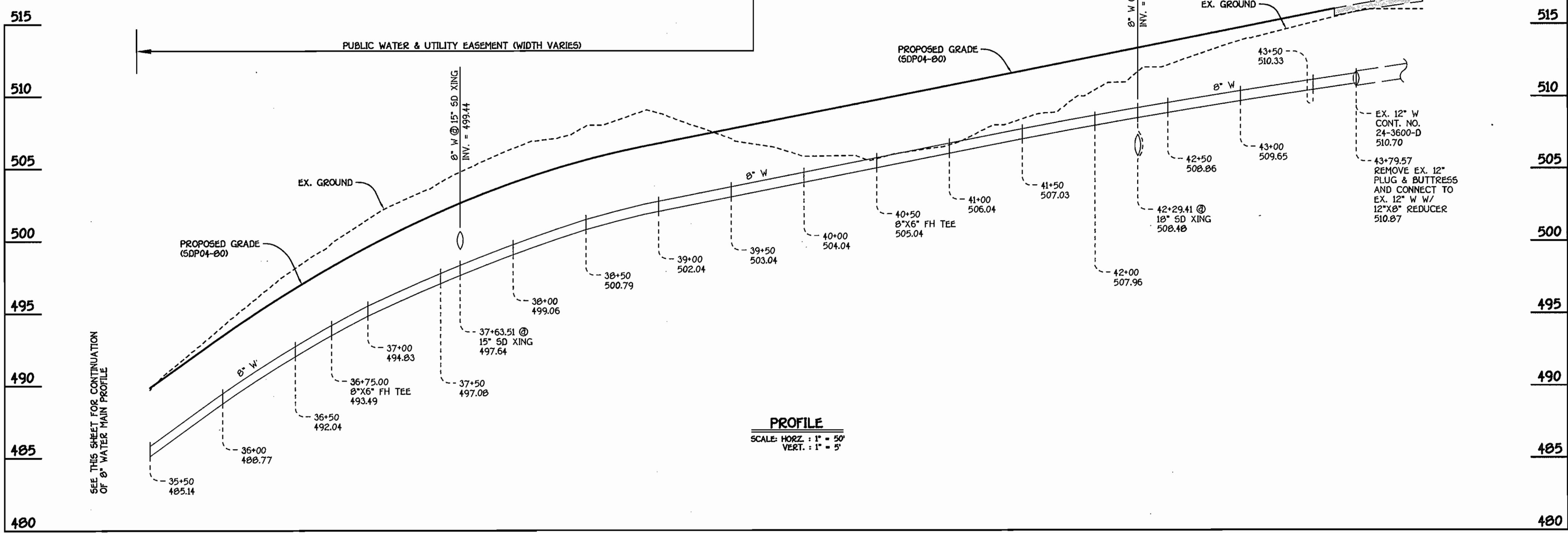
GTW'S WAVERLY WOODS
SECTION 13: BULK PARCEL 'A'
"THE COURTYARDS AT WAVERLY WOODS-EAST"
STAR CHASER CIRCLE
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
6 OF 10



8" WATER MAIN: STAR CHASER CIRCLE

W.M. STATION	APPURTENANCE	± ROAD STATION	DISTANCE
8" WATER MAIN			
0+00.00	12" X 8" TAPPING SLEEVE	-0+15.37	7.00' RT.
0+03.00	8" TAPPING VALVE	-0+12.37	7.00' RT.
5+06.05	P.C. (CRIMP RADIUS = 757.00')	4+90.68	7.00' RT.
6+40.26	8" X 8" TEE	6+23.65	7.00' RT.
7+75.73	8" X 8" TEE	7+57.87	7.00' RT.
8+18.82	8" X 6" FH TEE	8+00.56	7.00' RT.
9+39.44	8" X 8" TEE	9+20.07	7.00' RT.
10+26.08	8" VALVE	10+05.90	7.00' RT.
10+29.08	8" X 8" TEE	10+08.87	7.00' RT.
10+73.68	8" X 6" FH TEE	10+53.06	7.00' RT.
11+65.30	P.T. (CRIMP RADIUS = 757.00')	11+43.83	7.00' RT.
13+27.72	P.C. (CRIMP RADIUS = 668.00')	13+05.26	7.00' RT.
13+29.49	8" X 8" TEE	13+08.05	7.00' RT.
14+90.68	8" X 6" FH TEE	14+70.93	7.00' RT.
15+56.33	8" X 8" CROSS	15+37.27	7.00' RT.
18+94.81	8" X 6" FH TEE	18+79.29	7.00' RT.
20+69.48	8" VALVE	20+55.79	7.00' RT.
20+72.48	8" X 8" CROSS	20+58.82	7.00' RT.
21+24.13	8" X 6" FH TEE	21+11.01	7.00' RT.
24+76.44	8" X 8" TEE	24+67.01	7.00' RT.
25+17.82	8" X 6" FH TEE	25+08.83	7.00' RT.
29+75.00	8" X 6" FH TEE	29+70.80	7.00' RT.
30+41.37	P.T. (CRIMP RADIUS = 668.00')	30+37.87	7.00' RT.
32+50.00	8" VALVE	32+46.49	7.00' RT.
32+53.00	8" X 6" FH TEE	32+49.49	7.00' RT.
36+75.00	8" X 6" FH TEE	36+71.49	7.00' RT.
40+50.00	8" X 6" FH TEE	40+46.49	7.00' RT.
41+35.85	P.C. (CRIMP RADIUS = 682.00')	41+32.35	7.00' RT.
43+79.57	12" X 8" REDUCER, CONNECT TO EX. 12" W	43+73.56	7.00' RT.



8" WATER MAIN: FROM STAR CHASER CIRCLE TO BIRMINGHAM WAY

CONTRACT NO. 24-412-D
 GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 7-20-04

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 8/4/04

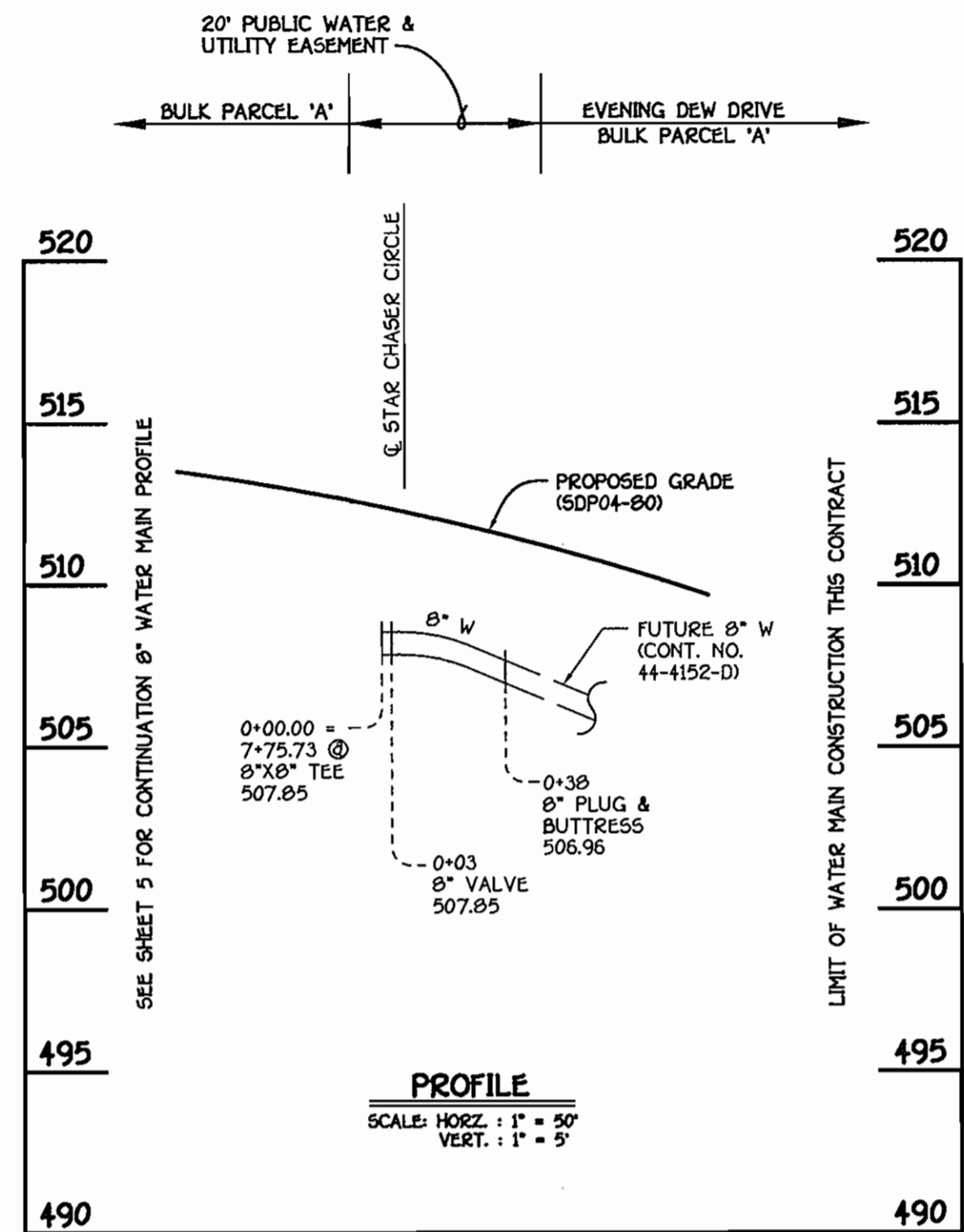
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-1999



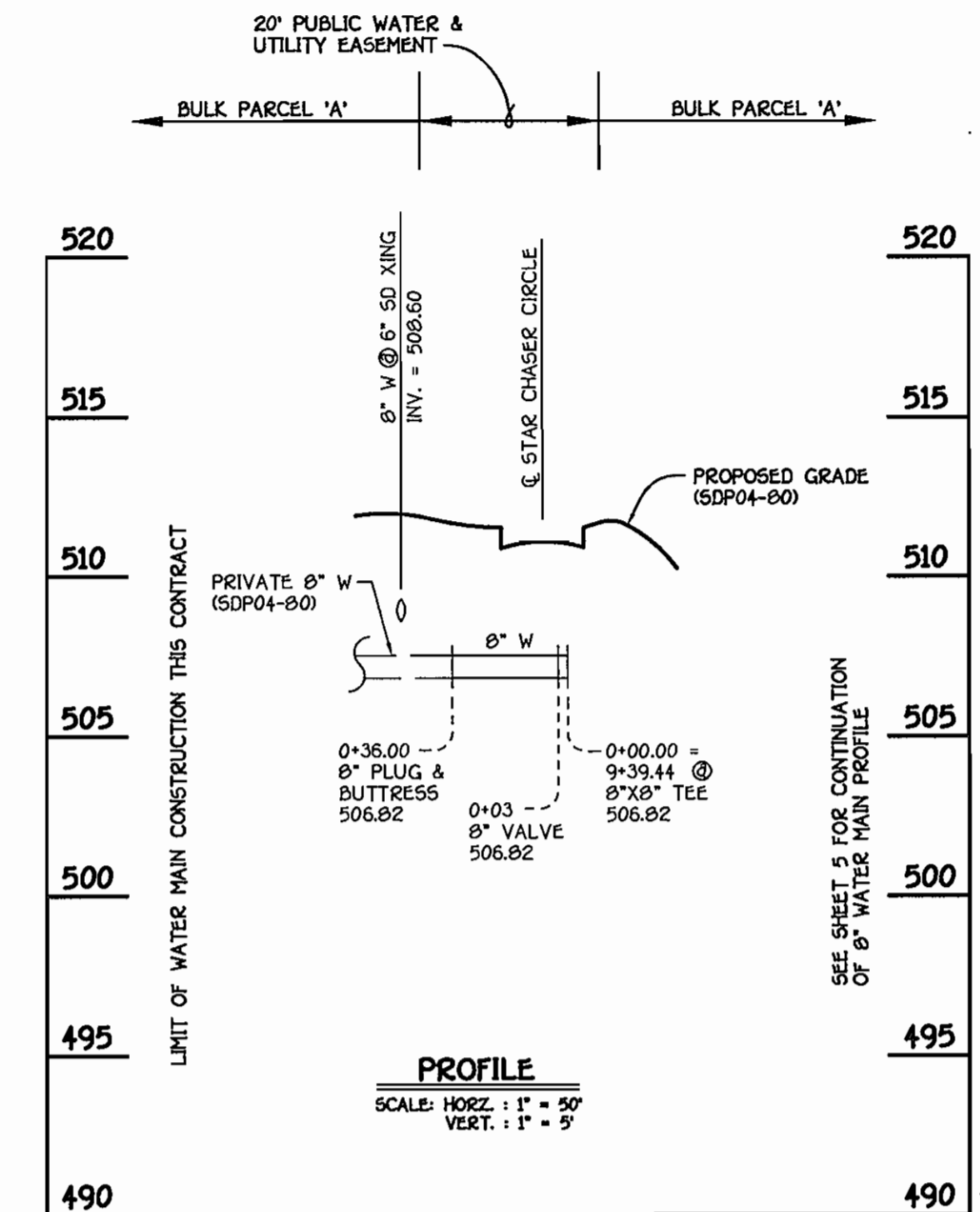
DESIGNED BY: M.D.T.
 DRAWN BY: M.D.T.
 CHECKED BY: P.W.K.
 DATE: JULY, 2004

WATER MAIN PROFILE
 60' SCALE MAP NO. 16 BLOCK NO. 4 & 5
 F.C.C. WORK ORDER NO. 40353
 FILE NAME: FINAL WATER MAIN PROFILES SHIT 7

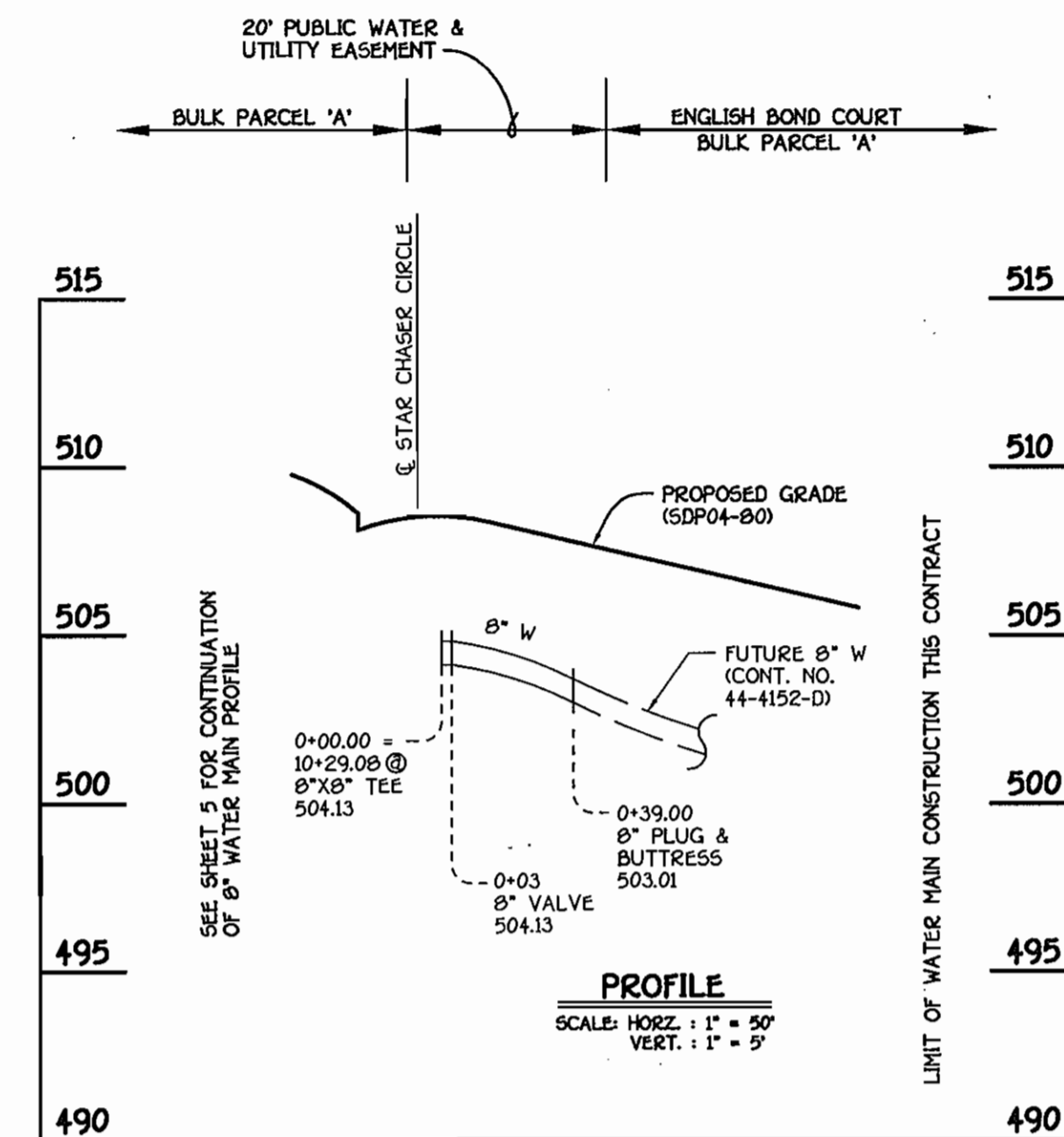
GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN
 SHEET 7 OF 10



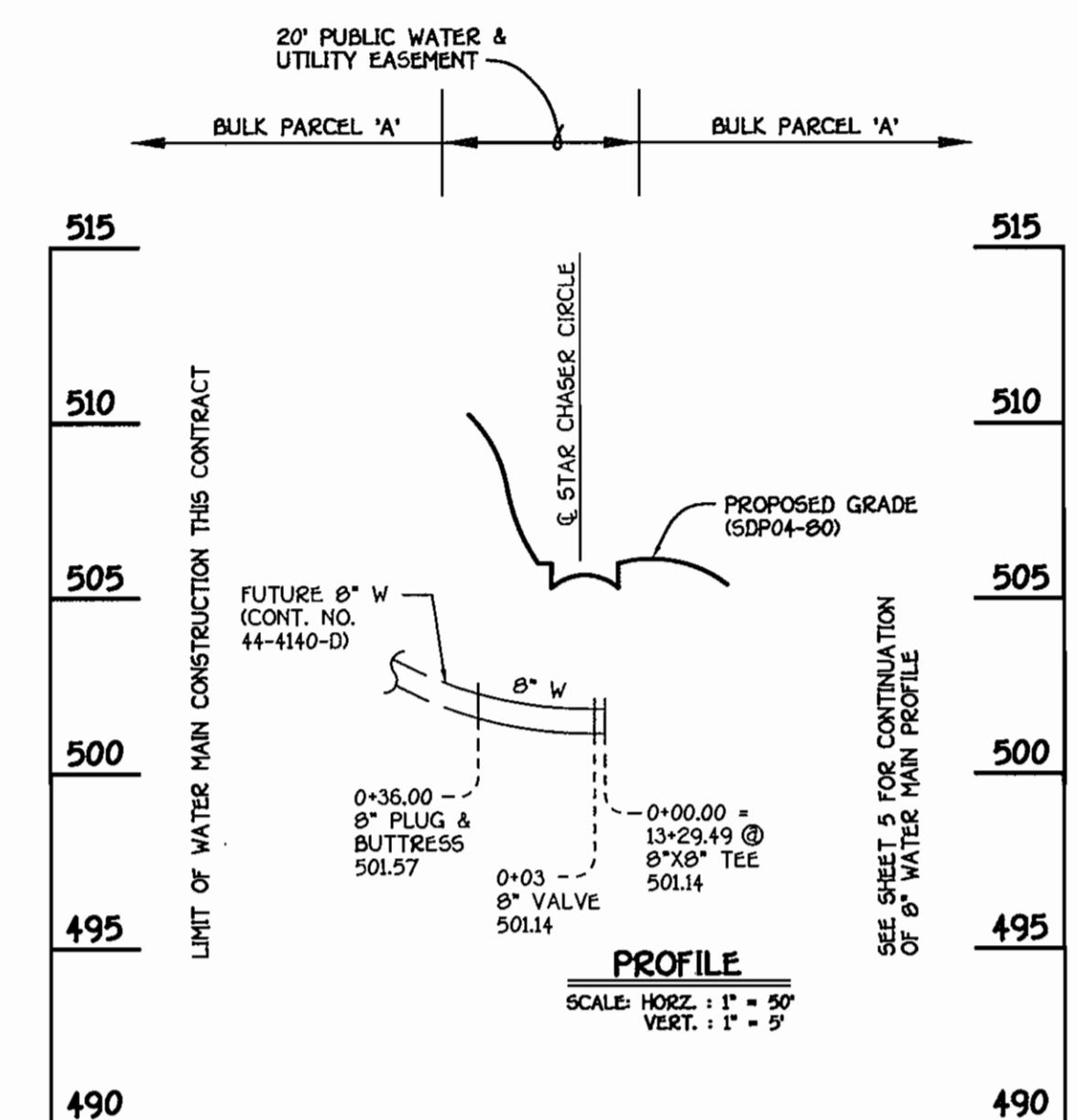
8" WATER MAIN EXTENSION TO EVENING DEW DRIVE



8" WATER MAIN EXTENSION TO BUILDING NO. 12

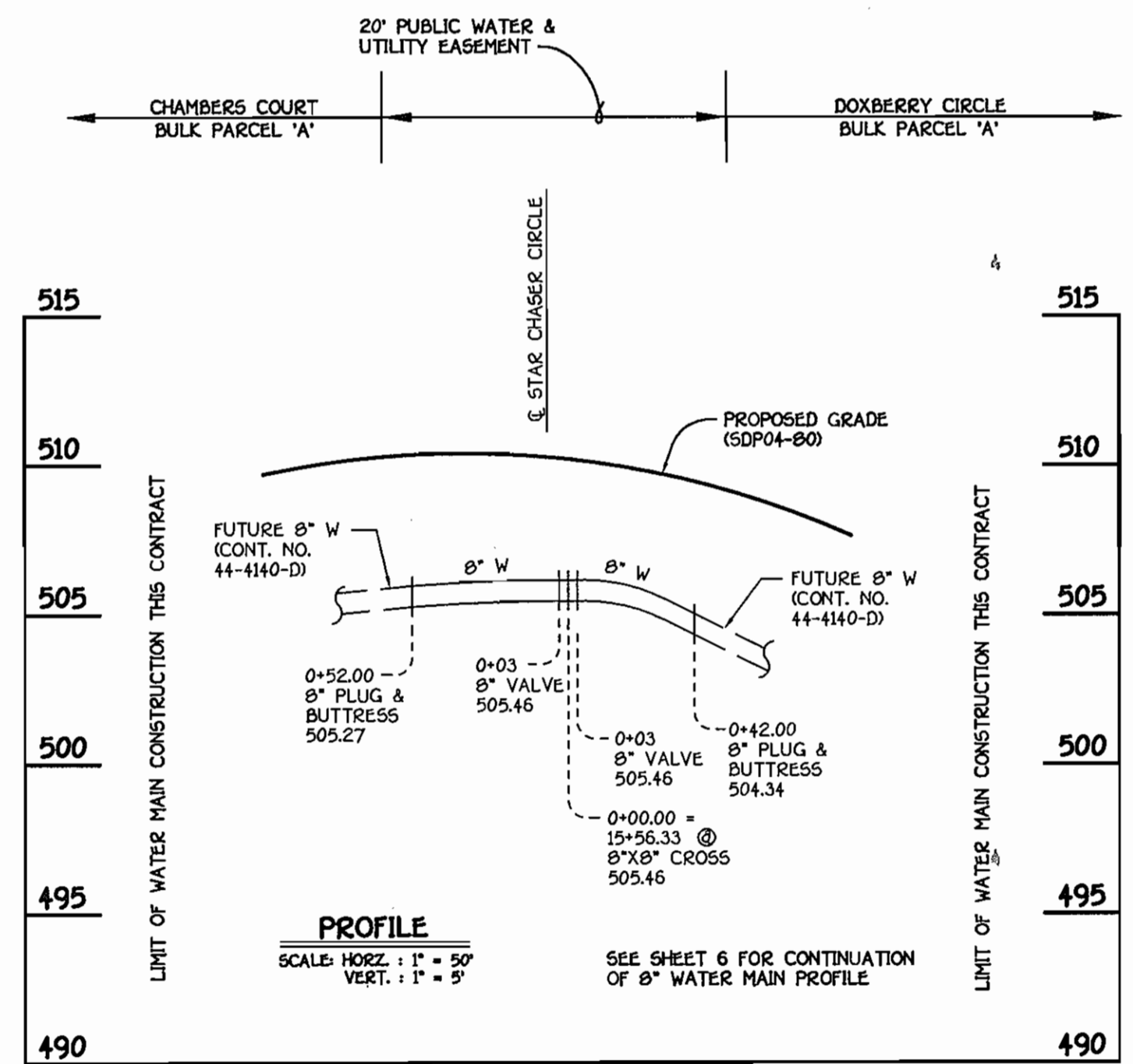


8" WATER MAIN EXTENSION TO ENGLISH BOND COURT

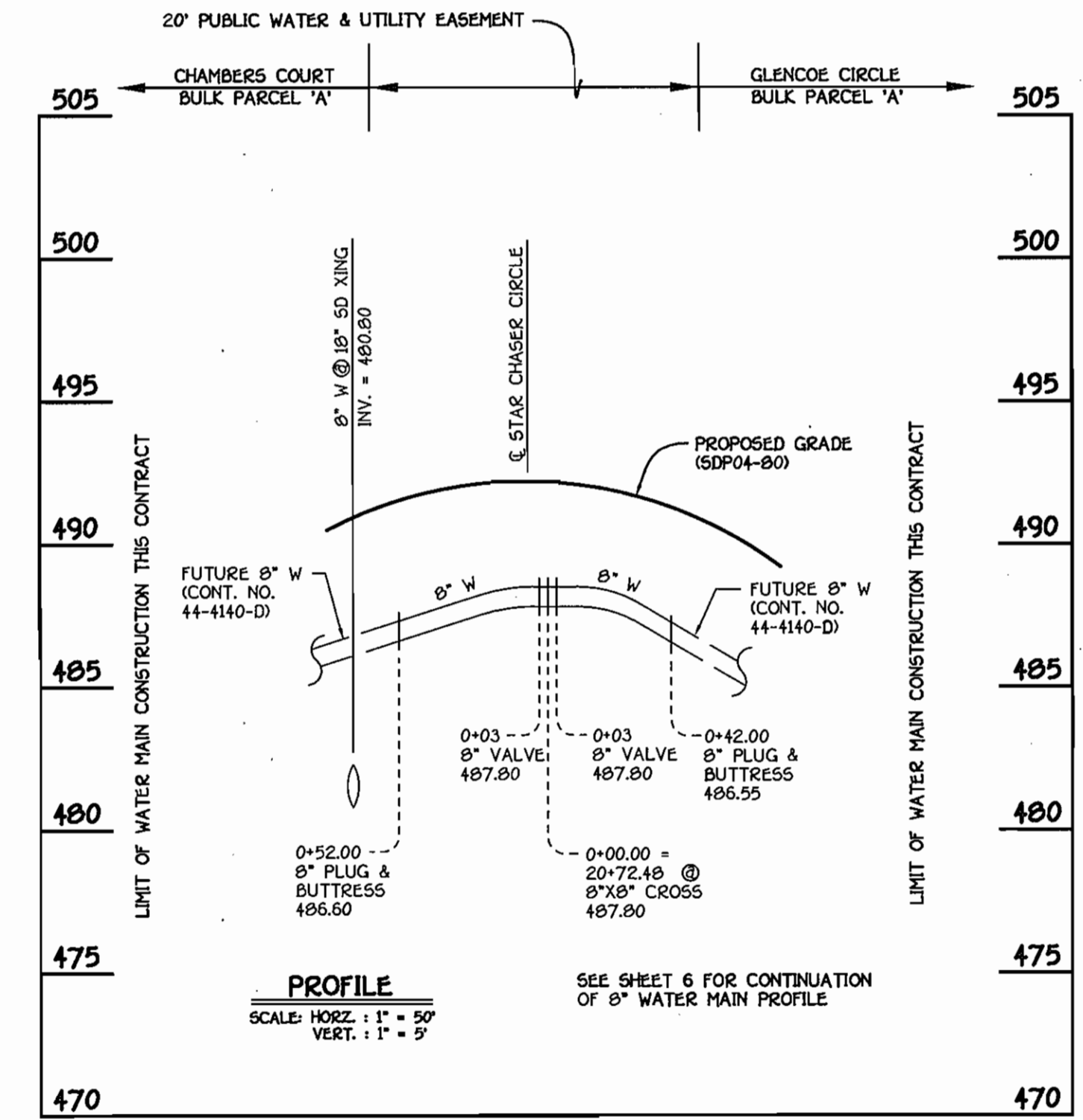


8" WATER MAIN EXTENSION TO CHAMBERS COURT LOOP

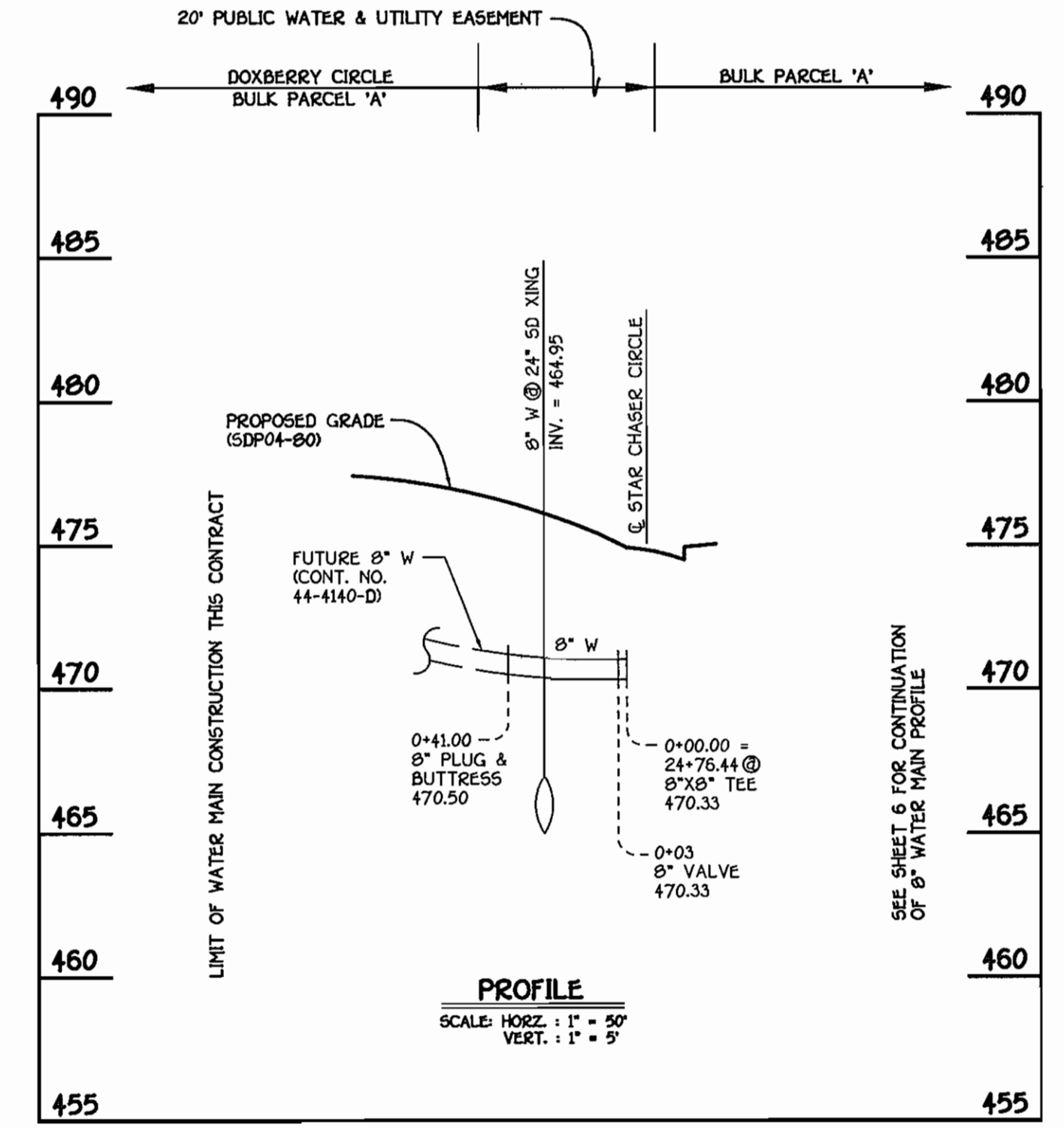
SEE SHEET 7 FOR WATER MAIN TABULATION CHART



8" WATER MAIN EXTENSION TO CHAMBERS COURT & DOXBERRY CIRCLE



8" WATER MAIN EXTENSION TO CHAMBERS COURT & GLENCOE CIRCLE



8" WATER MAIN EXTENSION TO DOXBERRY CIRCLE

CONTRACT NO. 24-412-D
 GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
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 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 7-20-04
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 8/4/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 GLENEIGHT CITY, MARYLAND 21042
 4107 401 - 2295

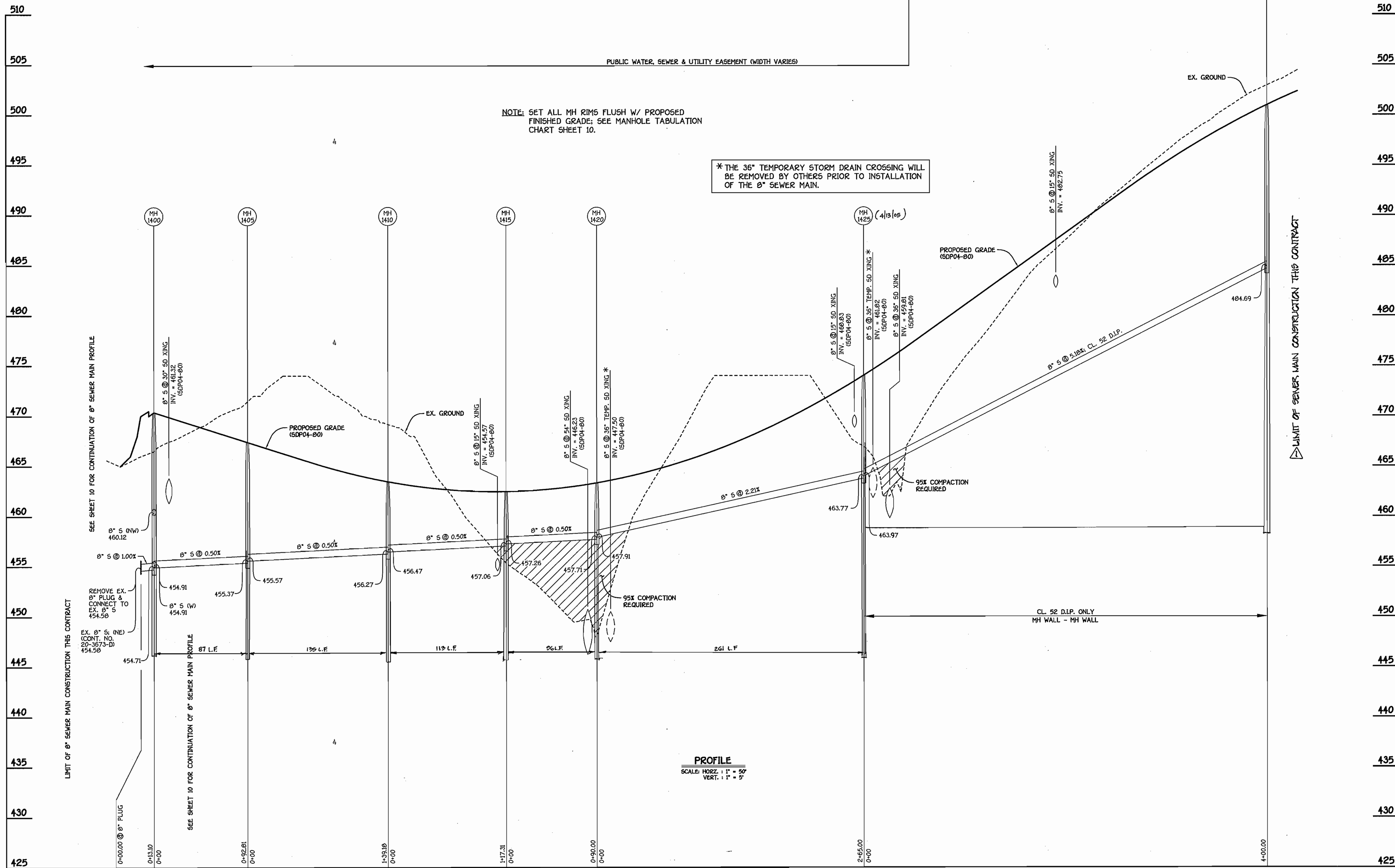


DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JULY, 2004
BY NO.	
REVISION	

WATER MAINS PROFILES
 600' SCALE MAP NO. 16 BLOCK NO. 4 & 5
 F.C.C. WORK ORDER NO. 40353
 FILE NAME: FINAL WATER MAIN PROFILES SHIT 8

GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 CONTRACT NO. 24-412-D
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 A5
 SHOWN
 SHEET
 8 OF 10



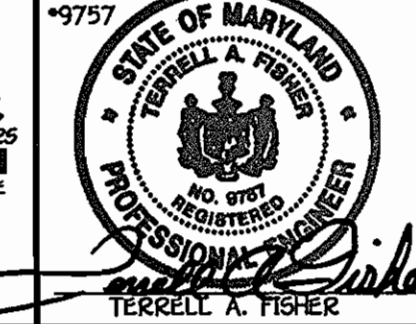
8" SEWER MAIN EXTENSION: STAR CHASER CIRCLE

CONTRACT NO. 24-412-D
 GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 7-20-04

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 8/4/04

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1000 SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21117
 (410) 461-2295



DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.K.	KCI	ASBUILT DATA SHOWN
DATE:	JULY, 2004	KCU	INDICATE REAVED LIMIT OF SEWER MAIN CONSTRUCTION
BY NO.			

SEWER MAIN PROFILE	
60' SCALE MAP NO.	16 BLOCK NO. 4 & 5
F.C.C. WORK ORDER NO.	40353
FILE NAME:	FINAL SEWER MAIN PROFILES SHT 9

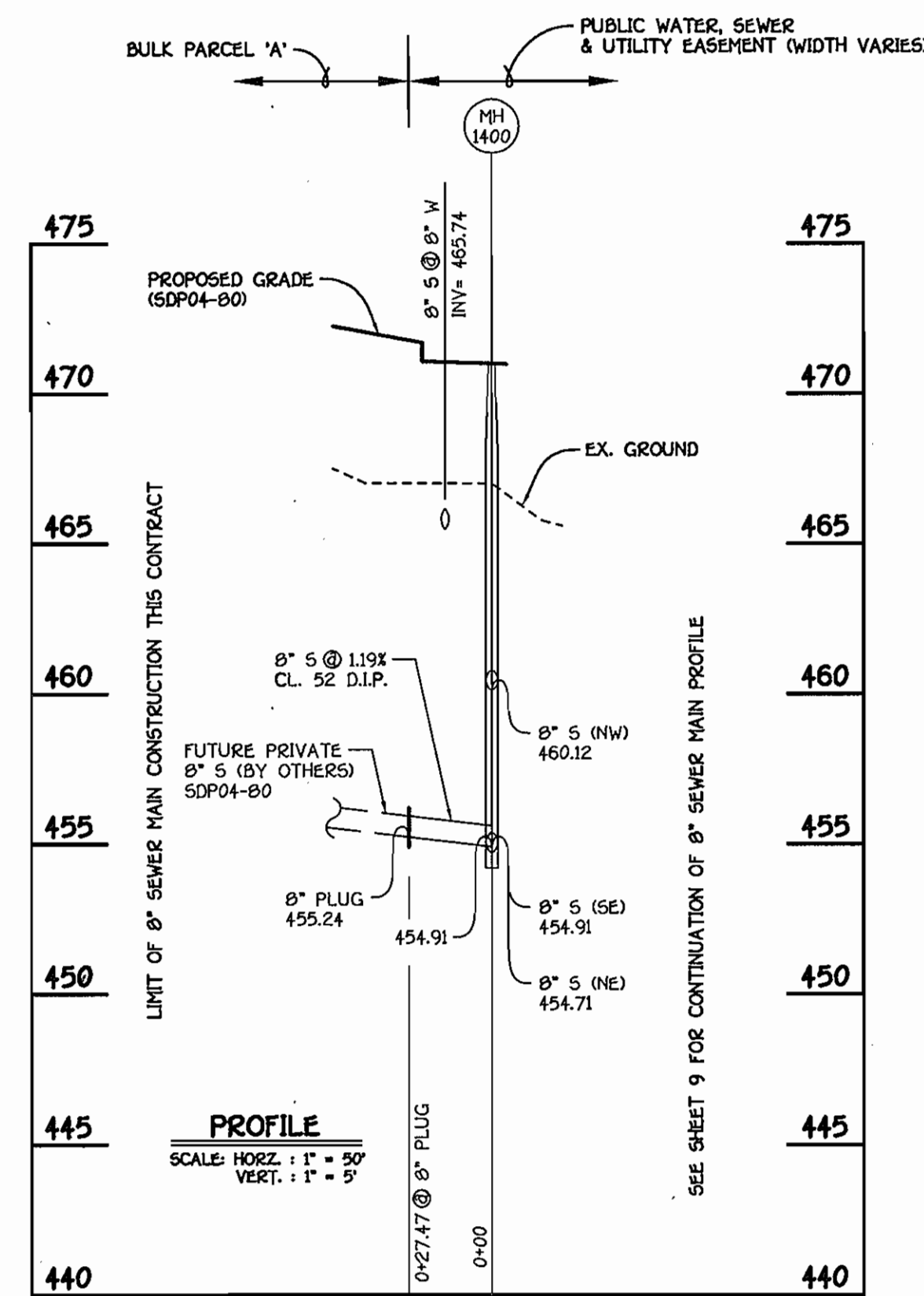
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 STAR CHASER CIRCLE
 CONTRACT NO. 24-412-D
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS SHOWN
 SHEET
 9 of 10

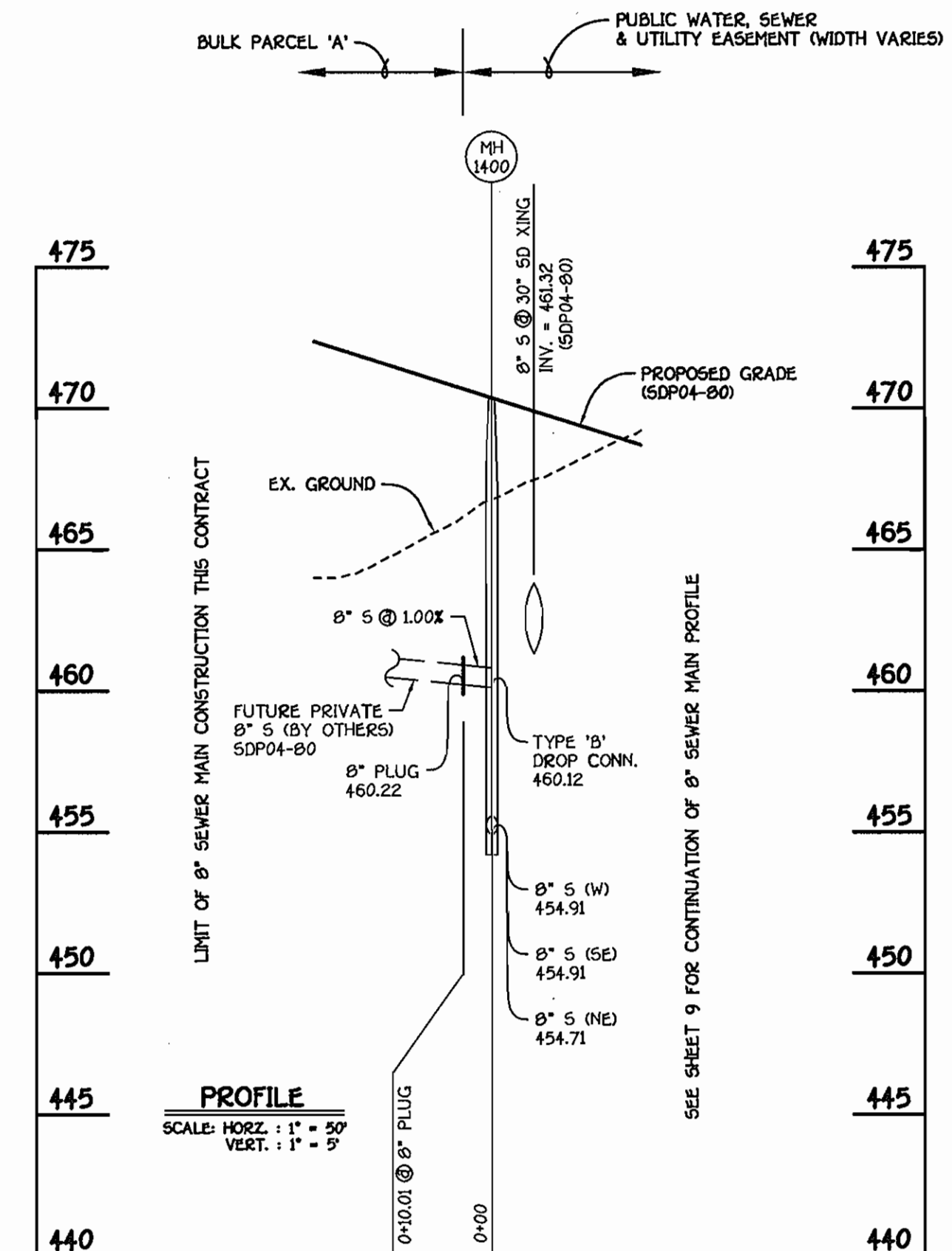
MANHOLE TABULATION CHART				
NO.	± ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
1400	26+07.05 STAR CHASER CIRCLE	7.00' LT.	-3.20%	470.15 *
1405	28+99.17 STAR CHASER CIRCLE	3.00' LT.	-3.20%	467.33 *
1410	28+37.99 STAR CHASER CIRCLE	3.00' LT.	-1.89%	463.41 *
1415	29+24.21 STAR CHASER CIRCLE	3.00' LT.	+0.28%	462.39 *
1420	30+44.30 STAR CHASER CIRCLE	7.00' LT.	+1.60%	463.10 *
1425	33+09.30 STAR CHASER CIRCLE	7.00' LT.	+6.36%	473.69 *
1430	37+09.30 STAR CHASER CIRCLE	7.00' LT.	+4.58%	500.63 *

* SET RIMS FLUSH W/ PROPOSED FINISHED GRADE

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 10 OF 10, SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING ON AUGUST 4, 2004.



8" SEWER MAIN EXTENSION: STAR CHASER CIRCLE



8" SEWER MAIN EXTENSION: STAR CHASER CIRCLE

CONTRACT NO. 24-4112-D
 GTW'S WAVERLY WOODS
 SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 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
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2252



DESIGNED BY :	M.D.T.
DRAWN BY :	M.D.T.
CHECKED BY :	P.W.K.
DATE :	JANUARY, 2005
BY NO.	
REVISION	

SEWER MAIN
 PROFILES

600' SCALE MAP NO. 16 BLOCK NO. 4 & 5

F.C.C. WORK ORDER NO. 40353

DATE: FILE NAME: FINAL SEWER MAIN PROFILES SHIT 10

GTW'S WAVERLY WOODS

SECTION 13: BULK PARCEL 'A'
 'THE COURTYARDS AT WAVERLY WOODS-EAST'
 STAR CHASER CIRCLE
 CONTRACT NO. 24-4112-D
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN

SHEET
 10 OF 10