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

Haul W. Karebel FOR: BRS DEVELOPERS LLC

ENGINEER'S CERTIFICATION

* 1 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."

GP-06-95

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

lim Wall TURAL RESOURCES CONSERVATION SERVICE THIS DEVELOPMENT IS APPRICATION 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 F-06-50 AND AS SHOWN ON THESE PLANS.
Paul W. Kowelel FOR:

BRS DEVELOPERS LLC SIGNATURE OF DEVELOPER

DEPARTMENT OF PLANNING AND ZONING

FISHER, COLLINS & CARTER, INC. ENGINEERING CONSULTANTS & LAND SURVEYORS square office park – 10272 Baltimore national piki ELLICOTT CITY, MARYLAND 21042



B.C.R. DRAWN BY : A Revise name of developer & associated information B.C.R. B Revise quantities based on revised lot lay-out. CHECKED BY : Revise number of lots & no. of WHC's & SHC's. P.W.K. Revise contract title based on revised no. of lots. September, 2006 REVISION

PROJECT:

HOWARD COUNTY

CONTROL STATION NO. 18R4

VICINITY MAP

CONTRACT NO. 14-4307-D

PARCELS 42 & 43

LOTS 44^ATHRU 47^A

SECOND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

THRU 43th& OPEN SPACE

HOLLIFIELD HILLS

PARCELS 42 & 43

CONTRACT NO. 14-4307-D

Lots 1 thru 49 & open SPACE LOTS 44 THRU 47

water and sewer mains

HOWARD COUNTY

CONTROL STATION

NO. 10R3

WATER AND SEWER MAINS TITLE SHEET

N 598,25

PLAN REFERENCE NUMBERS:

5P-01-06; F-06-50

600' SCALE MAP NO. ____ 17___ BLOCK NO. ___ 6 F.C.C. WORK ORDER NO. 04137

STARTING WORK SHOWN ON THESE PLANS: AT&T 1-800-252-1133 BGE (CONSTRUCTION SERVICES) 410-850-4620 BGE (EMERGENCY) 410-685-1400 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 9. 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. 10. 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. 11. 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 10.114(a) OF THE HOWARD 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED. 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE

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

all vertical control5 are based on navd '88. vertical control5 are based on traverse point no. XXXX) an iron pipe

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '03/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 18R3 & NO. 18R4. SEE THIS SHEET FOR BENCHMARK INFORMATION.

. 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

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

. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL ᠪ 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

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE

TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT FEBRUARY, 2004 BY FISHER, COLLINS & CARTER, INC.

ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.

PROVIDED FOR ON THE DRAWINGS. 5. 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.

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

PART III: SEWER

PART II: WATER

1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

GENERAL NOTES

TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

SET ON THE NORTH SIDE OF DANIELS ROAD. ELEV. 459.60.

HAVE A COPY OF VOLUME IV ON THE JOB SITE.

HORIZONTAL AND VERTICAL CONTROLS

3. FORCE MAINS SHALL BE D.I.P. ONLY. 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

5. 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. 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

BENCHMARK INFORMATION

B.M.*1 - HOWARD COUNTY CONTROL STATION *18R3 (NAD '83)
(APPROX. 100 FT. NORTHWEST FROM THE INTERSECTION OF OLD FREDERICK ROAD AND DANIELS ROAD)
N 596,747.870 E 1,367,360.555 ELEVATION = 459.60

B.M.*2 - HOWARD COUNTY CONTROL STATION * 18R4 (NAD '83)
(LOCATED ALONG OLD FREDERICK ROAD APPROX. 1,200 FT. EAST OF NORTH ROGERS AVENUE) N 595,543.252 E 1,366000.079 ELEVATION = 475.95

Developer Mid Atlantic Land Development Company c/o B. James Greentield 6420 Autumn Sky Way Columbia, Moryland 21044

410-730-3039

CONTRACT NO. 14-4307-D HOLLFRELD HILLS PARCELS 42 & 43 LOTS 1 THRU 49 & OPEN SPACE LOTS 44 THRU 47 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

N 598,250

WATER & SEWER CODE

WATER NO .: __

WATER ZONE: _

SEWER NO .:

NUMBER OF LOTS: .

FOR COUNTY USE ONLY

WATER TEST GRADIENT: ______760

NO. OF WATER HOUSE CONNECTIONS: _

NO. OF SEWER HOUSE CONNECTIONS: .

DRAINAGE AREA: PATAPSCO

TYPE OF BUILDING: RESIDENTIAL: SINGLE FAMILY DETACHED

TREATMENT PLANT: PATAPSCO WWTP: CITY OF BALTIMORE

VIA THE OLD FREDERICK ROAD WWPS

DESIGNED BY :

HOLLIFIELD HILLS PARCELS 42 & 43 LOTS 1 THRU 43 & OPEN SPACE LOTS 44 THRU 47 CONTRACT NO. 14-4307-D

SECOND ELECTION DISTRICT

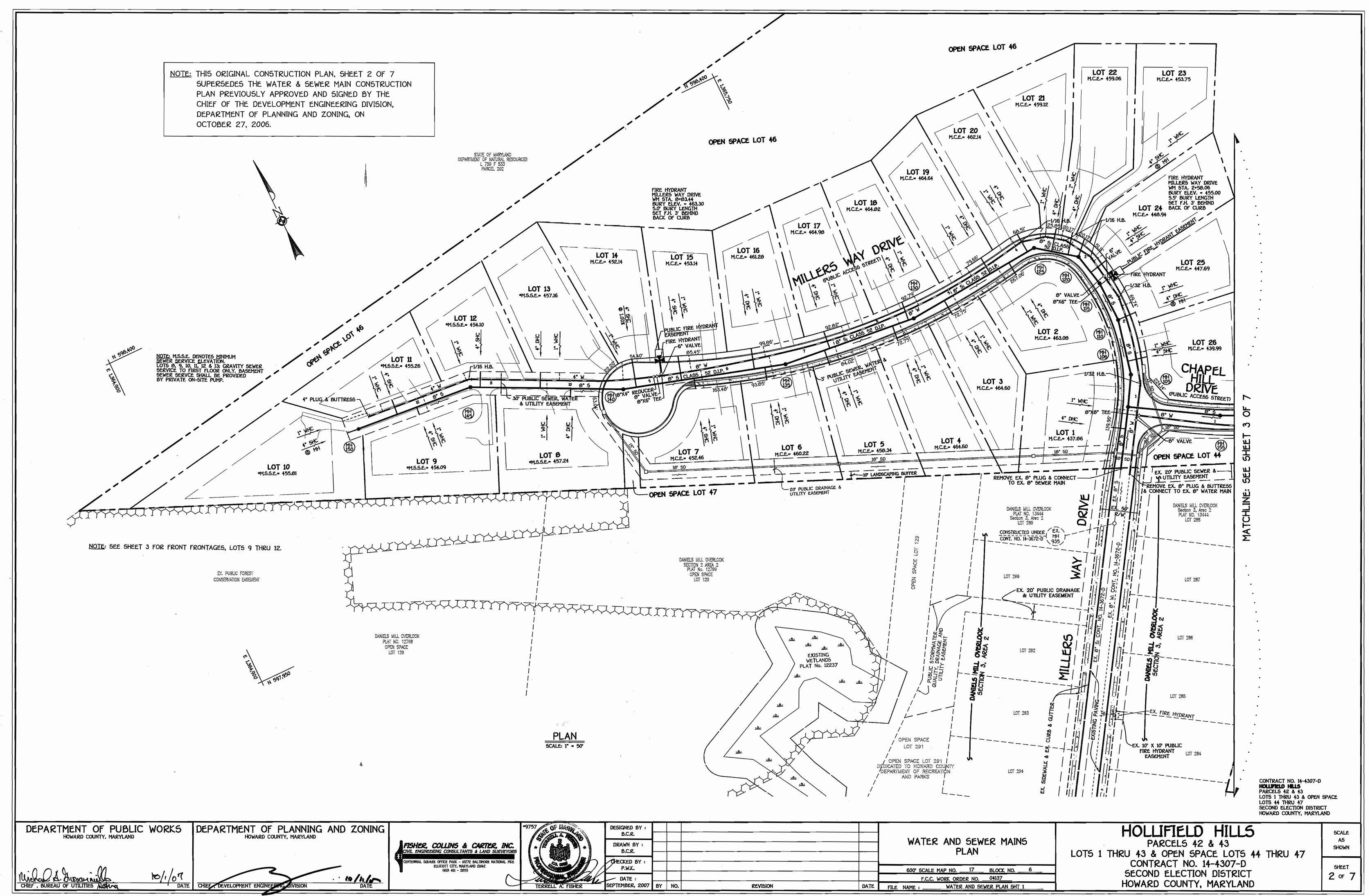
HOWARD COUNTY, MARYLAND

SCALE SHOWN

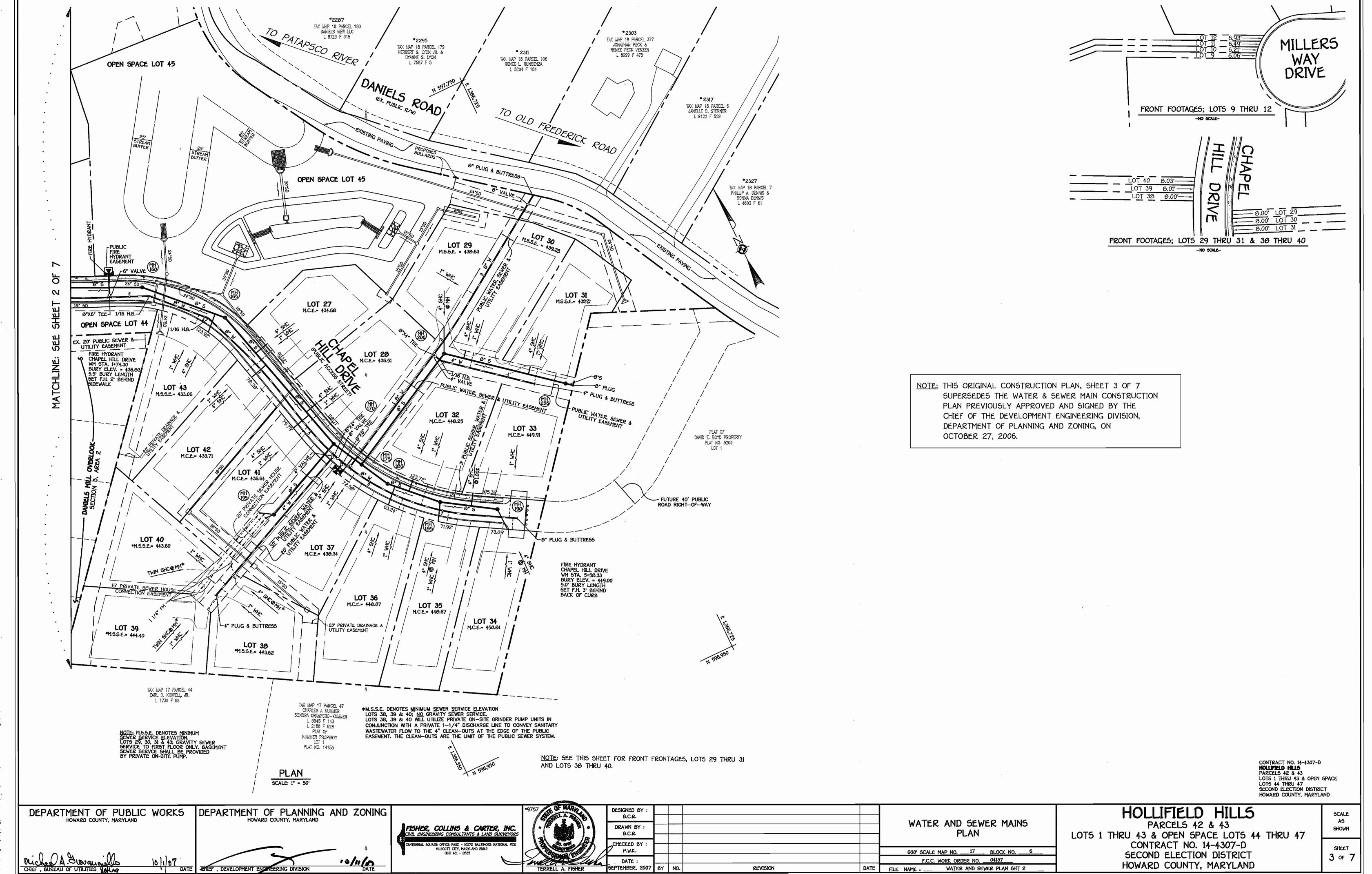
SHEET 1 of 7

WATER AND SEWER TITLE SHT

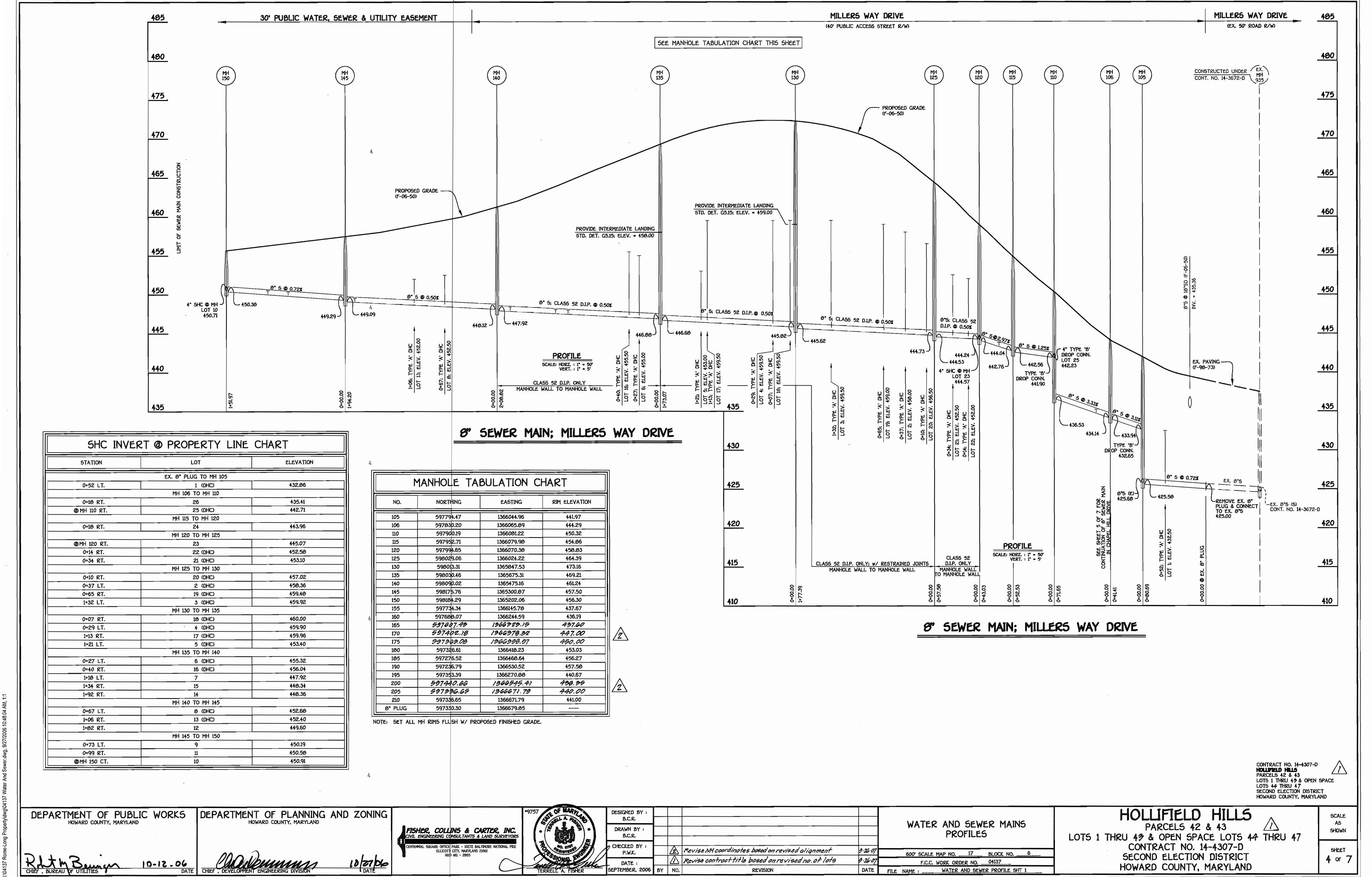
DATE FILE NAME :



Rome-Long Property\dwg\REDLINES\04137(REDLINE) Water And Sewer.dwg, 9/26/2007 8:05:19 AM



137 Rome-Long Property/dwg/REDLINES\04137(REDLINE) Water And



SEPTEMBER, 2006 BY NO.

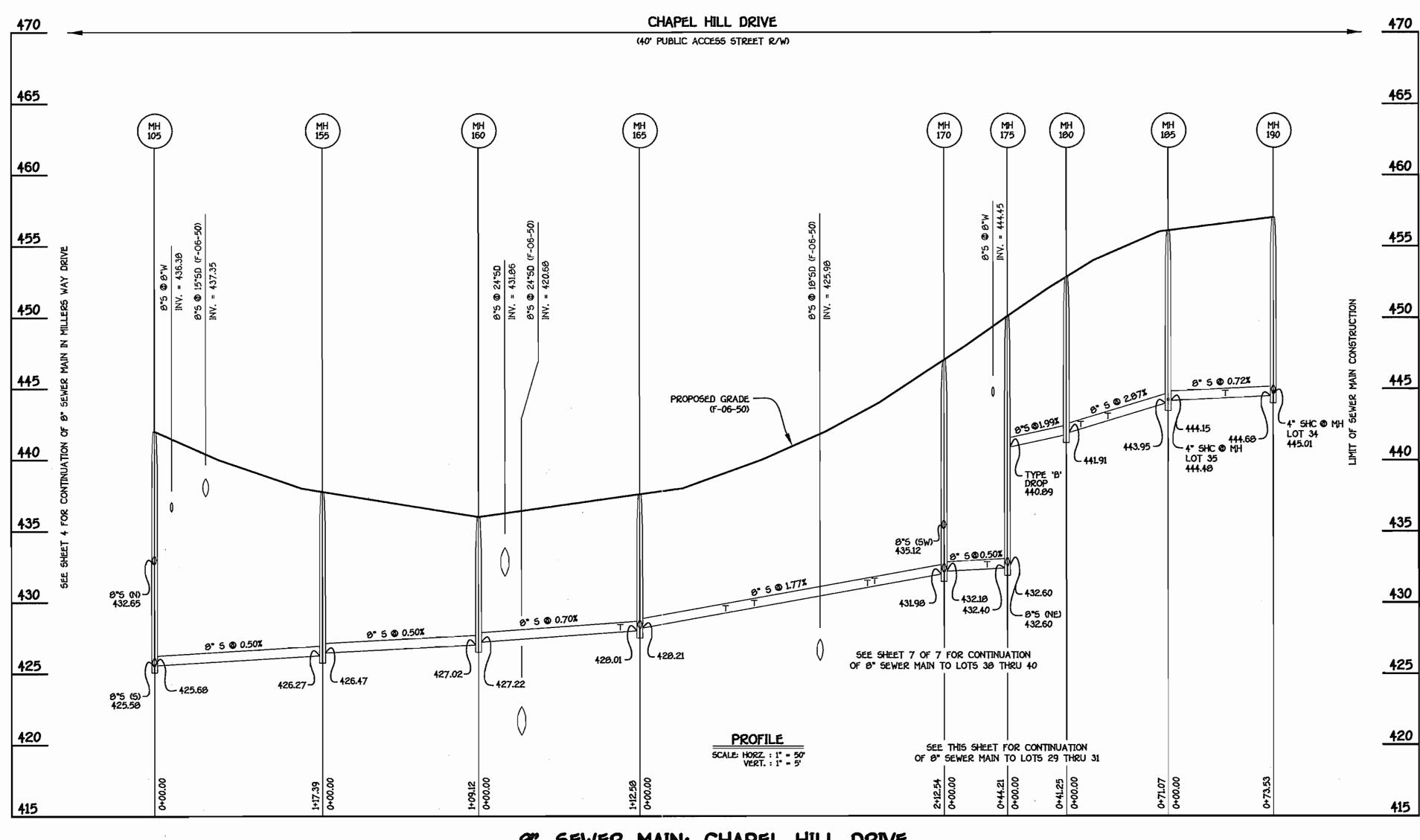
DATE FILE NAME : _

WATER AND SEWER PROFILE SHT 1



SHC INVERT @ PROPERTY LINE CHART						
STATION	LOT	ELEVATION				
MH 200 TO MH 205						
ØMH 200 LT. 29 434.63						
0+26 LT.	30	434.18				
1+11 LT.	31	434.Qi				

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 5 OF 7 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 OCTOBER 27, 2006.



8" SEWER MAIN; CHAPEL HILL DRIVE

SHC INV	ERT @ PROPERTY LINE	CHART
STATION	LOT	ELEVATION
	MH 160 TO MH 165	
0+99 RT.	43	428.58
	MH 165 TO MH 170	•
0+60 LT.	27	429.64
0+80 RT.	42	430.04
1+59 LT.	26	431.55
1+64 RT.	41	431.80
	MH 170 TO MH 175	
0+30 RT.	37	433.06
	MH 100 TO MH 105	
0+10 RT.	36	442.87
0+29 LT.	32	443.23
	MH 105 TO MH 190	
MH 105 RT.	35	444.98
0+40 LT.	33 (@1.00%)	444.77
MH 190 RT.	34	445.51

CONTRACT NO. 14-4307-D
HOLLFREID HILLS
PARCELS 42 & 43
LOTS 1 THRU 43 & OPEN SPACE
LOTS 44 THRU 47
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DATE

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND FISHER, COLLINS & CARTER, INC.



DESIGNED BY :					
B.C.R.			·		MATER AND GENER MAING
DRAWN BY : B.C.R.		·			WATER AND SEWER MAINS PROFILES
					PROFILES
CHECKED BY:					
P.W.K.					600' SCALE MAP NO. 17 BLOCK NO. 6
- DATE:					F.C.C. WORK ORDER NO04137
SEPTEMBER, 2007	вγ	NO.	REVISION	DATE	FILE NAME: WATER AND SEWER PROFILE SHT 2

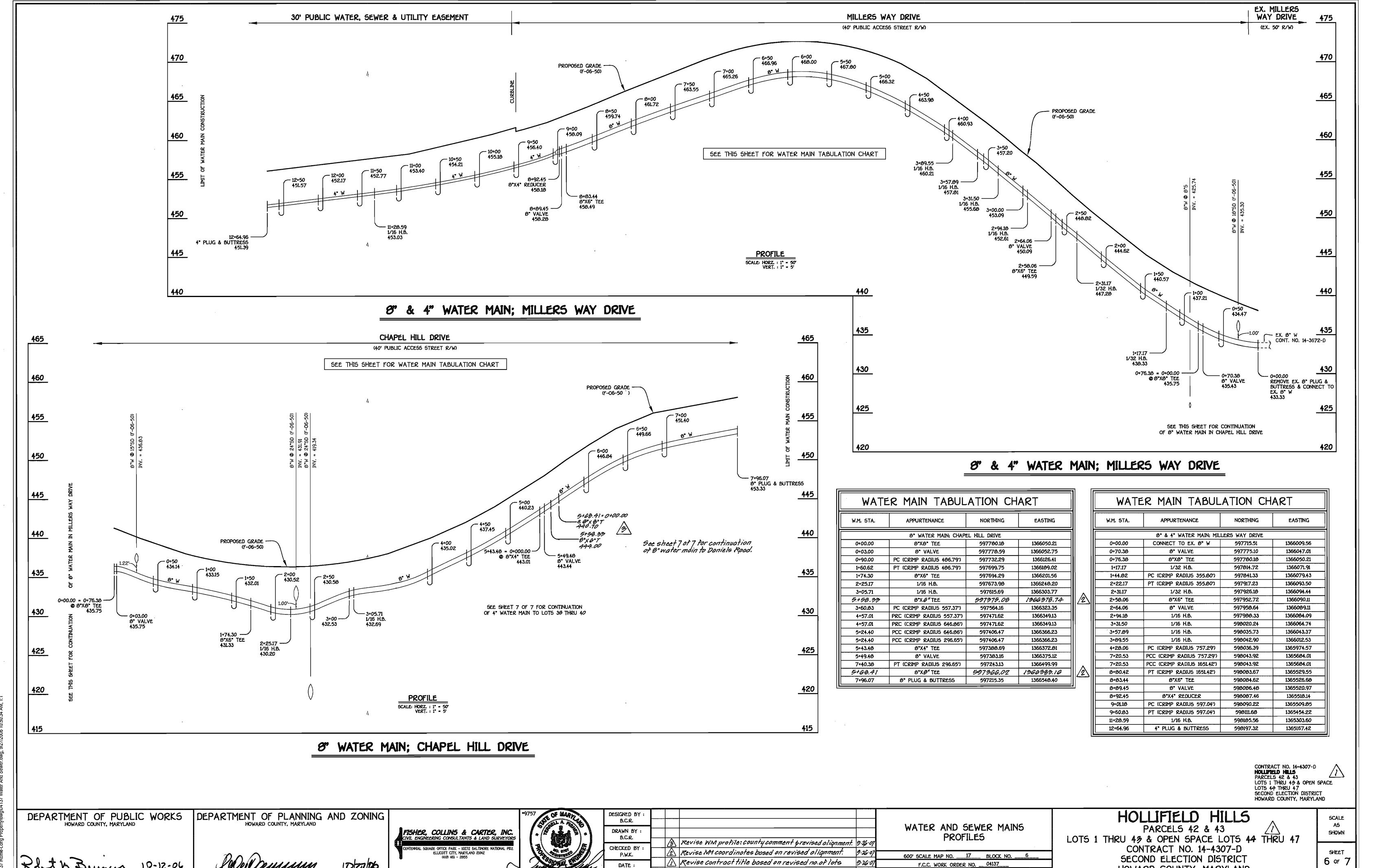
HOLLIFIELD HILLS

HOWARD COUNTY, MARYLAND

PARCELS 42 & 43 LOTS 1 THRU 43 & OPEN SPACE LOTS 44 THRU 47 CONTRACT NO. 14-4307-D SECOND ELECTION DISTRICT

5 of 7

SCALE



SEPTEMBER, 2006 BY NO.

DATE FILE NAME :

WATER AND SEWER PROFILE SHT 3

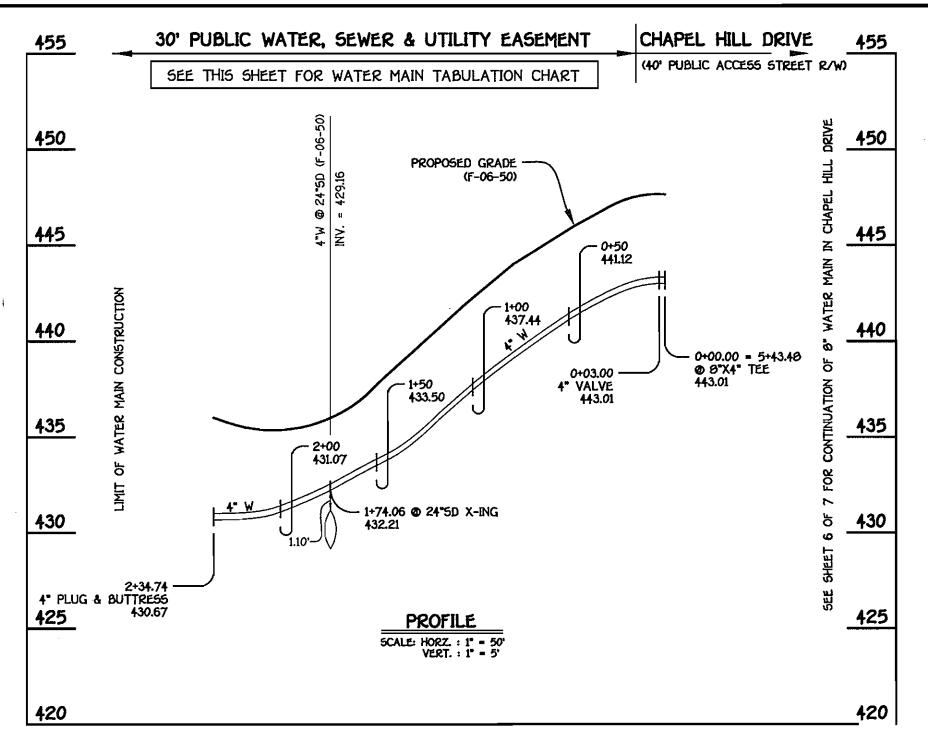
HOWARD COUNTY, MARYLAND

1-104137 Rome-I ong Propertyldwol/04137 Water And Sewer dwg 9/27/2006 10:50:34

8" WATER MAIN TO DANIELS ROAD

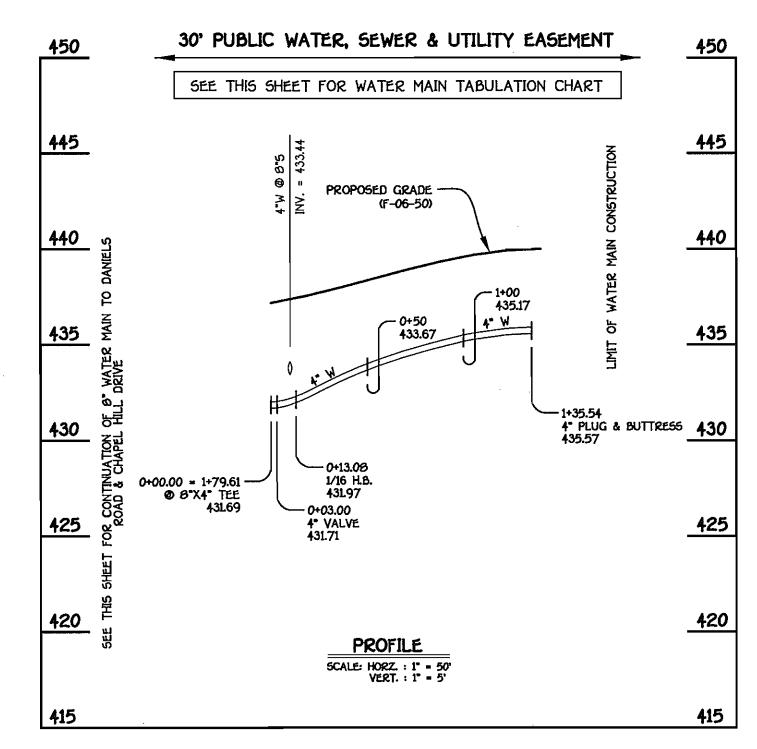
WATER MAIN TABULATION CHART				
W.M. STA. APPURTENANCE NORTHING EASTING				
	0° WATER MAIN TO DA	ANIELS ROAD		
0+00.00 8"X8" TEE 597366.02 1366383.16				
0+03.00	8" VALVE	597367.42	1366305.01	
1+79.61	0"X4" TEE	597450.10	1366541.07	
2+03.00	PC (CRIMP RADIUS 860')	597461.05	1366562.55	
2+74.84	PT (CRIMP RADIUS 860')	597499.29	1366623.34	
4+07.00	6" VALVE	597572.19	1366733.60	
4+20.68	9" PLUG & BUTTRESS	597579.79	1366744.99	

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 7 OF 7 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 OCTOBER 27, 2006.



4" WATER MAIN TO LOTS 30 THRU 40

WATE	ER MAIN TABUL	ATION CH	ART		
W.M. STA.	APPURTENANCE	NORTHING	EASTING		
4" WATER MAIN TO LOTS 30 THRU 40					
0+00.00	0"X4" TEE	597300.69	1366372.61		
0+03.00	4" VALVE	597307.51	1366370.05		
2+34.74	4" PLUG & BUTTRESS	597291.64	1366159.07		



4" WATER MAIN TO LOTS 30 & 31

460	30' PUBLIC W	iater, sewer	& CHAPEL	HILL DRIVE
	UTIL	LITY EASEMENT	(40' PUBLIC	ACCESS STREET RA
455				
SHALLOV STD. DE	PRECAST MH MH 1. G5.12 195)	MH 170	
450		PROPOSED GRADE (F-06-50)	_	
				L DRIVE
445 E				APEL HILL
445 440				SEWER MAIN IN CHAPEL HILL
N OaMay		8* 6 0 -		
435	THE SHE SO MH	8° 5 @ 0.723		**************************************
6° -	LOT 39 436.30 IWIN SHC @ MH		TYPE 'A') DROP 435.12	OR CONTINUATION
430	LOTS 40 & 41 436.14		43	
			63 43	SEE SHEET 5
425		PROFIL SCALE: HORZ. : VERT. :		28 71
420	1+19.00		0+00.00	

8" SEWER MAIN TO LOTS 38 THRU 40

SHC INVERT @ PROPERTY LINE CHART						
STATION LOT ELEVATION						
	MH 170 TO MH 195					
ØMH 195 LT.	Ø MH 195 LT. 39 436.52					
@ MH 195 CENT. 39 436.50						
ØMH 195 RT. 40 436.50						

WATER MAIN TABULATION CHART							
W.M. STA. APPURTENANCE NORTHING EASTING							
4" WATER MAIN TO LOTS 30 & 31							
0+00.00	9"X4" TEE	597450.10	1366541.07				
0+03.00	4" VALVE	597447.44	1366543.27				
0+13.08	1/16 H.B.	597430.54	1366547.99				
1+35.54	4" PLUG & BUTTRESS	597360.72	1366642.55				

CONTRACT NO. 14-4307-D
HOLLFREID HELLS
PARCELS 42 & 43
LOTS 1 THRU 43 & OPEN SPACE
LOTS 44 THRU 47
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND





	19/5/ ALL THE
25	
Œ	
~	Jan
	TERRELL A. FISHER

	DESIGNED BY :					
	B.C.R.					WATER AND GEWER MAING
	DRAWN BY : B.C.R.					WATER AND SEWER MAINS PROFILES
						PROFILES
	CHECKED BY : P.W.K.					600' SCALE MAP NO17 BLOCK NO6
1	- DATE:					F.C.C. WORK ORDER NO
•	september, 2007	BY	NO.	REVISION	DATE	FILE NAME : WATER AND SEWER PROFILE SHT 4

HOLLIFIELD HILLS

PARCELS 42 & 43 LOTS 1 THRU 43 & OPEN SPACE LOTS 44 THRU 47 CONTRACT NO. 14-4307-D

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 7 of 7