

QUANTITIES

ITEM	QUANTITIES ESTIMATED	AS - BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER	710 L.F.			
6" WATER	20 L.F.			
6" VALVES, EXCL. FH VALVES	1 EA.			
8" VALVES	2 EA.			
4" SHC	43 L.F.			
FIRE HYDRANT	1 EA.			

GENERAL NOTES

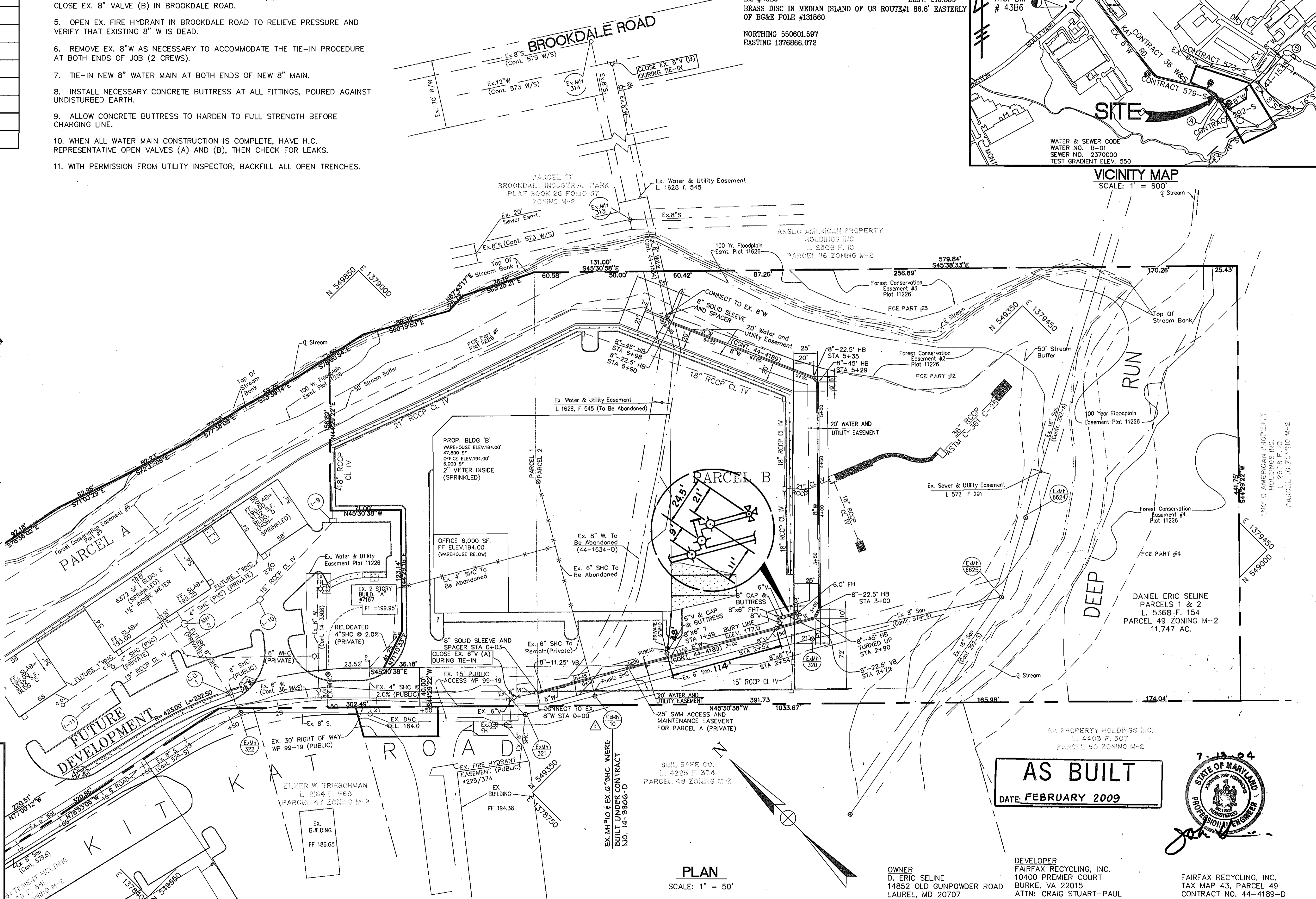
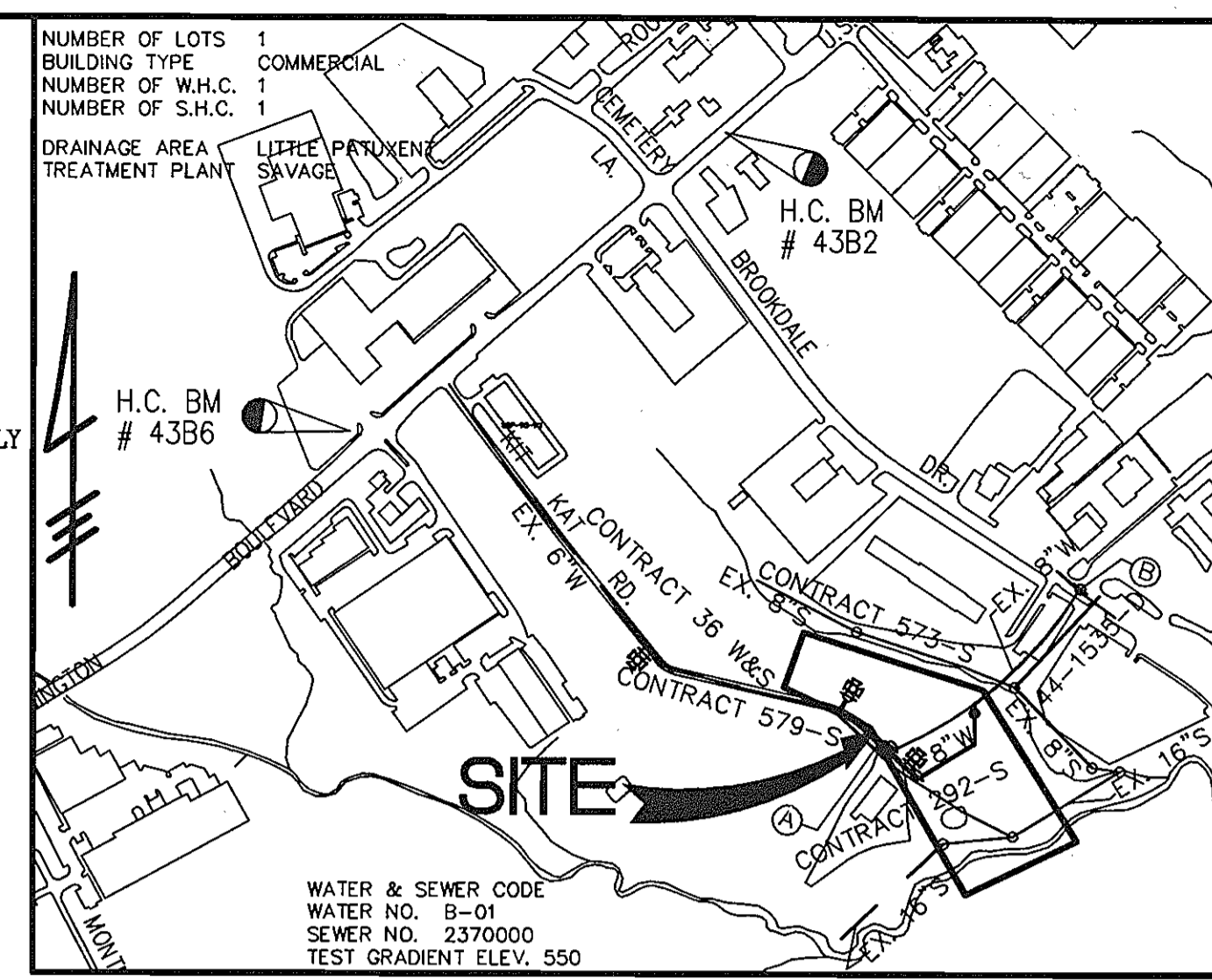
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- ALL PIPE ELEVATIONS 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, 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.
- 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).....410-950-4620
 BGE (UNDERGROUND DAMAGE CONTROL).....410-787-9088
 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
- 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.
- THE 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.
- 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 18.114(c) OF THE HOWARD COUNTY CODE.
- 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 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.

PROCEDURE FOR ABANDONMENT OF EX. 8" W

- CONSTRUCT PROP. 8"W FROM STA. 0+45± TO STA. 6+95± AND TEST MAIN.
- NOTIFY H.C. DPW INSPECTIONS DIVISION @ 410-313-1805 AT LEAST 48 HOURS PRIOR TO SCHEDULED TIE-IN DATE.
- STRAP EX. 6" V (A) TO EX. 6"x6" T IN FRONT OF PARCEL 48.
- HAVE H.C. REPRESENTATIVE CLOSE EX. 6" VALVE (A) AT KIT KAT ROAD, THEN CLOSE EX. 8" VALVE (B) IN BROOKDALE ROAD.
- OPEN EX. FIRE HYDRANT IN BROOKDALE ROAD TO RELIEVE PRESSURE AND VERIFY THAT EXISTING 8" W IS DEAD.
- REMOVE EX. 8" W AS NECESSARY TO ACCOMMODATE THE TIE-IN PROCEDURE AT BOTH ENDS OF JOB (2 CREWS).
- TIE-IN NEW 8" WATER MAIN AT BOTH ENDS OF NEW 8" MAIN.
- INSTALL NECESSARY CONCRETE BUTTRESS AT ALL FITTINGS, POURED AGAINST UNDISTURBED EARTH.
- ALLOW CONCRETE BUTTRESS TO HARDEN TO FULL STRENGTH BEFORE CHARGING LINE.
- WHEN ALL WATER MAIN CONSTRUCTION IS COMPLETE, HAVE H.C. REPRESENTATIVE OPEN VALVES (A) AND (B), THEN CHECK FOR LEAKS.
- WITH PERMISSION FROM UTILITY INSPECTOR, BACKFILL ALL OPEN TRENCHES.

BM #43B2 ELEV. 209.601
 X-CUT IN BRASS DISC IN MEDIAN ISLAND OF US ROUTE #1
 46.52' NORTHEAST OF C&P POLE # 100

BM #43B6 ELEV. 210.559
 BRASS DISC IN MEDIAN ISLAND OF US ROUTE #1 86.8' EASTERLY
 OF BG&E POLE #131860



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SITE DEVELOPMENT PLAN SDP 04-024

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT MEETS TECHNICAL REQUIREMENTS
 Jim Morgan 7/21/04
 NATURAL RESOURCES CONSERVATION DISTRICT
 THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
 John K. Robinson 7/21/04
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

AS BUILT
 DATE: FEBRUARY 2009



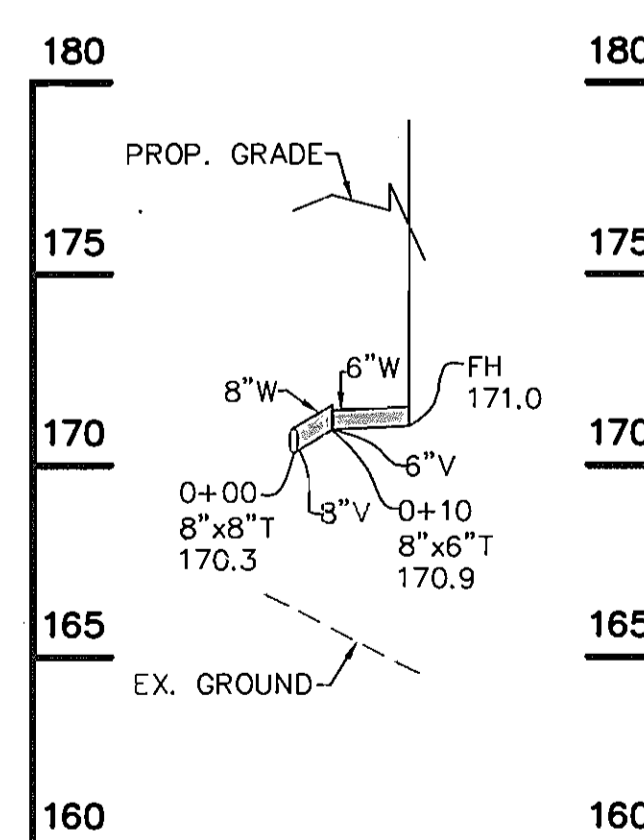
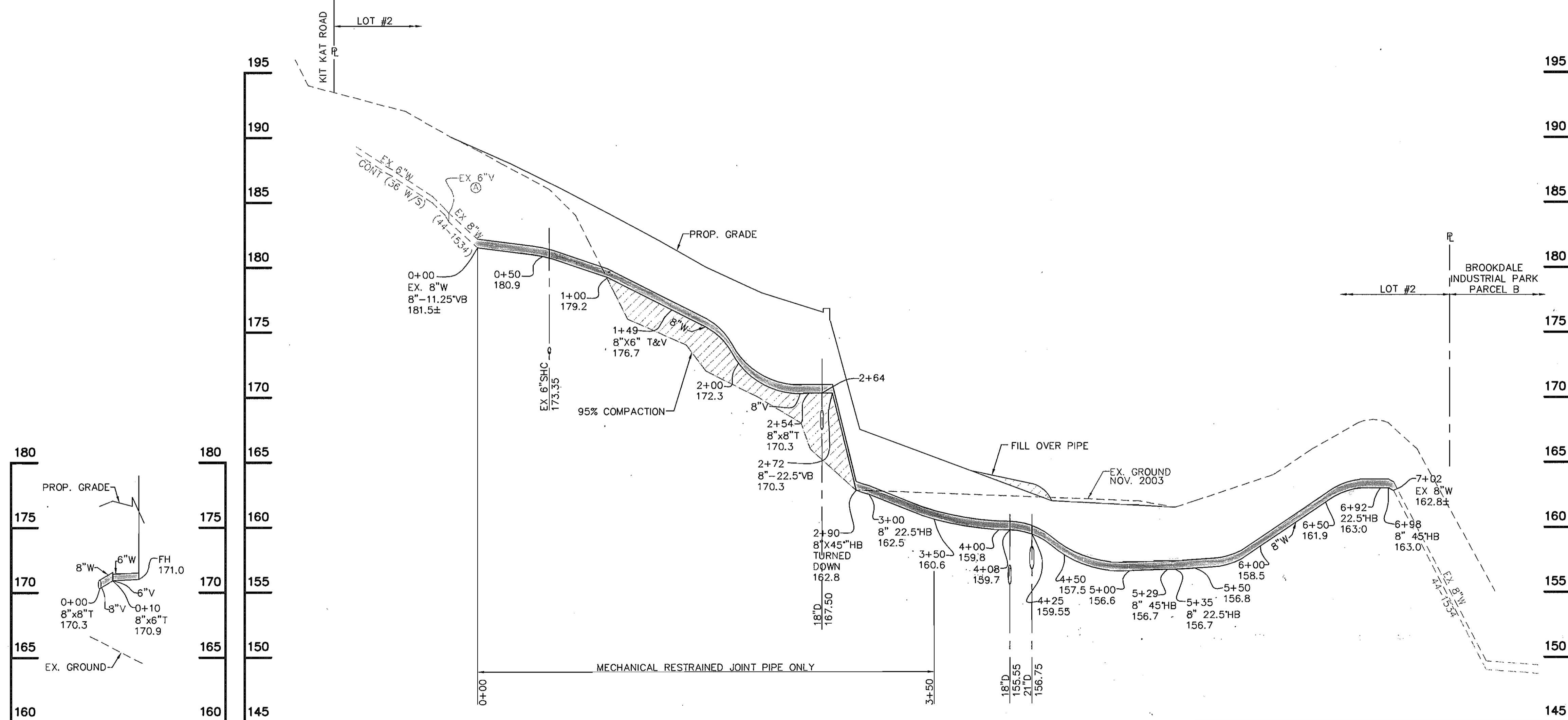
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 7-22-04

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 7/29/04

DES: R.J.W.			
DRN: S.E.W.			
CHK: J.R.H.	RJW	△	ADDED CONTRACT # TO EX. MH 10 & EX. G" SHC
DATE: 3-04	BY	NO.	DESCRIPTION
			6-30-05

PLAN OF WATER MAINS
 SCALE: 1" = 50'
 600' SCALE MAP NO. 43 BLOCK NO. 20

OWNER: D. ERIC SELINE, 14852 OLD GUNPOWDER ROAD, LAUREL, MD 20707, 410-792-2999
 DEVELOPER: FAIRFAX RECYCLING, INC., 10400 PREMIER COURT, BURKE, VA 22015, ATTN: CRAIG STUART-PAUL, 703-250-0500
 FAIRFAX RECYCLING, INC., TAX MAP 43, PARCEL 49, CONTRACT NO. 44-4189-D, SDP 04-024, F 04-B1
 SCALE: 1" = 50'
 DRAWING NO. 1 OF 2



AS BUILT
DATE: FEBRUARY 2009

7-13-04

FAIRFAX RECYCLING, INC.
TAX MAP 43, PARCEL 49
CONTRACT NO. 44-4189-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. J. W.
 CHIEF, BUREAU OF UTILITIES
 DATE: 7-22-04

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John H.
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 7/29/04

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
1420-A JOH AVENUE
BALTIMORE, MARYLAND 21227
(410) 247-8833

DES: R.J.W.				
DRN: S.E.W.				
CHK: J.R.H.				
DATE: 3-03	BY	NO.	DESCRIPTION	DATE

PROFILES OF
WATER MAINS
600' SCALE MAP NO. 43 BLOCK NO. 20

FAIRFAX RECYCLING, INC.
1ST ELECTION DISTRICT
CONTRACT NO. 44-4189-D

SCALE:
H: 1" = 50'
V: 1" = 5'
DRAWING NO. 2 OF 2
PROJ 02021.00 PPD1Water.Dwg