### 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
- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MAY 24, 2001 BY FREDERICK WARD AND ASSOCIATES.
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS:

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 38D5, AND NO. 38D6. ALL VERTICAL CONTROLS ARE BASED ON NAVD' 88. VERTICAL CONTROLS PROVIDED

GEODETIC SURVEY CONTROL 38D5 (ELEV. 193.726 FT.)

BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, 5.6' NORTH OF
CONCRETE CURB ON ROUTE 1, WEST OF AMBERMAN AVENUE.

GEODETIC SURVEY CONTROL 38D6 (ELEV. 175.228 FT.)

BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, 44' SOUTH OF LIGHTPOLE
AND 6.5' WEST OF ADJACENT ATLANTIC SUPPLY CO., EAST OF ROUTE 1.

- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED 5. 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 DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF 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.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL • AT THE LOCATION OF THE TEST PIT. A NOTES 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 OPERATION
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST ENE WORKING DAYS REFORE STARTING WORK SHOWN THESE PLANS.

AT LEAST FIVE MORNING DATA BEFOR	IE STATUNO HONG SHORM THESE FERMS.
AT &T	1-800-252-1133
BGE (CONTRACTOR SERVICE)	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. 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 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 ANY 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(a) OF THE

# PART II - WATER

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE 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 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

# PART III - SEWER

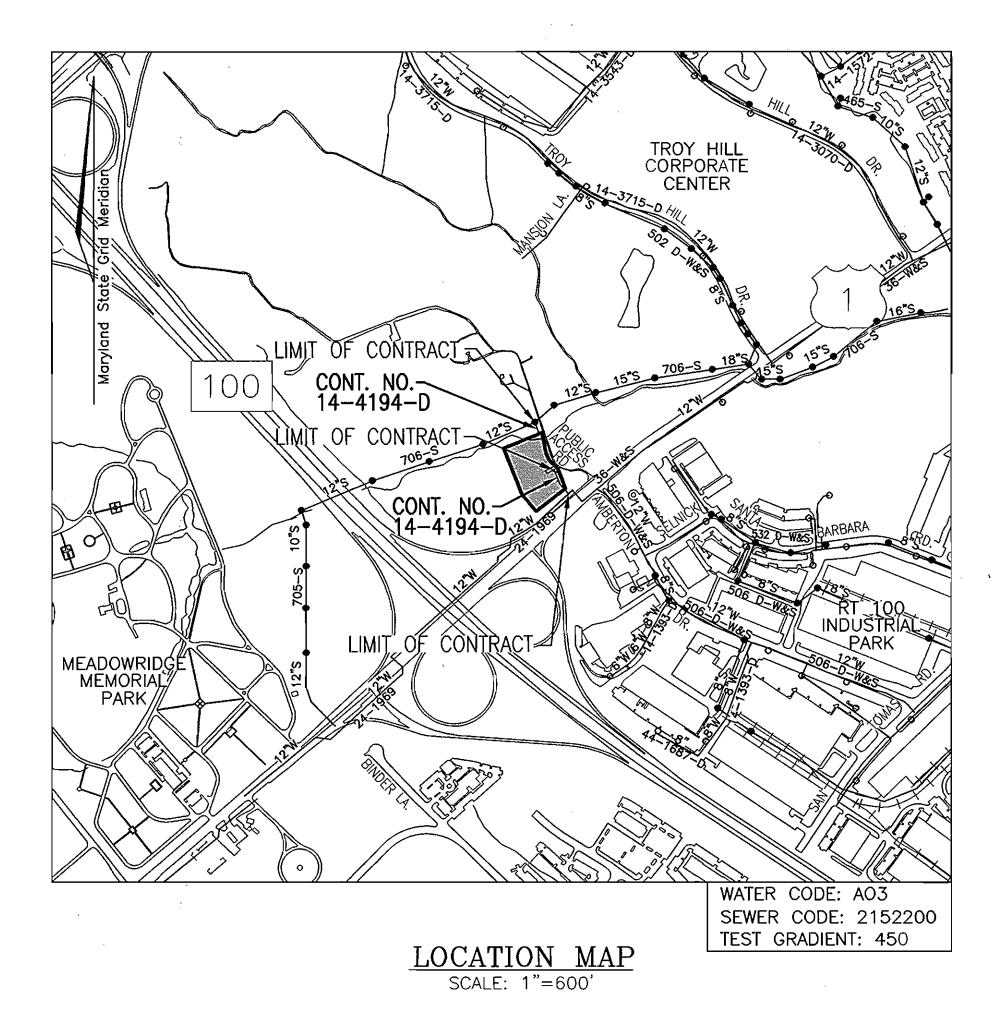
- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 3. FORCE MAINS SHALL BE D.I.P. ONLY.
- 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME 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 CELLAR CANNOT BE SERVED.

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

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-09-022

# FINAL WATER AND SEWER PLAN EZ STORAGE FACILITY US RTE. 1 CONT. No. 14-4194-D

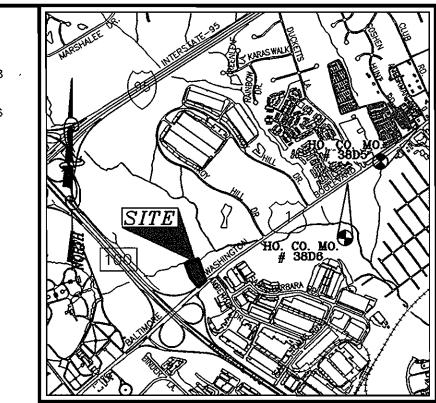


Type of Building:	GENERAL OFFICE & RE				
No. of Lots/Parcels :	<u> </u>				
No. of Water House Cannectians :	2				
No. of Sewer House Connections :	1				
Drainage Area :	PATAPSCO				
Treatment Plant :	PATAPSCO RIVER				

# **BENCHMARKS**

HOWARD COUNTY BENCHMARK 38D6 N 557155.459 E 1384992.262 ELEV. 175.228

HOWARD COUNTY BENCHMARK 38D5 N 558378.575 E 1386524.158 ELEV. 193.726



SCALE: 1"=2000'

8" X 6" TEE 2 EA 2 EA. D.I.P., CL.54 TYLER/UNION FOUNDRY/ " " " " " " " " " " " " " " " " " " "											
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: JULY 2009  QUANTITIES ESTIMATED QUANTITIES WATER  12"x8" TAPPING SLEEVE VALVE 1 EA 1 EA. TAPPING SLEVE MUELLER COMPANY/WATER WORKS SUP 8" WATER  12"x8" TAPPING SLEEVE VALVE 1 EA 1 EA. TAPPING SLEVE MUELLER COMPANY/WATER WORKS SUP 8" WATER 310 LF 310 L.F. D.I.P., CL.54 ATLANTIC ST. CASTIRON/ " " " " 8" x 6" TEE 2 EA 2 EA. D.I.P., CL.54 TYLER/UNION FOUNDRY/ " " " 8" -1/0 BEND 5 EA 5 EA. M.J. " / " " " " " " " " " 8" VALVE 2 EA 2 EA. RWGATE V. MUELLER COMPANY/ " " " " 6" VALVE 2 EA 2 EA. RWGATE V. MUELLER COMPANY/ " " " " 6" WATER 24 LF 19 L.F. D.I.P., CL.54 ATLANTIC ST. CASTIRON/ " " " 5"-CAP & BUTTRESS / EA 1 EA. M.J. TYLER/UNION FOUNDRY/ " " " 9"-CAP & BUTTRESS / EA 1 EA. M.J. TYLER/UNION FOUNDRY/ " " " " SEWER  MANHOLES 1 EA 1 EA. 4' PRECAST ATLANTIC CONC. PRODUCTS/WATER WORKS SUPPLY	QUANTITIES										
QUANTITIES   STIMATED   QUANTITIES   TYPE   MANUFACTURER/SUPPLIER	NAME OF UTILITY CONTRACTOR : W.F. WILSON AND SONS, INC.										
TIEMS   ESTIMATED   QUANTITIES   TYPE   MANUFACTURER/SUPPLIER	SURVEY AND DRAFTING	G DIVISION AS-BUILT DA	ATE : JULY 2009								
WATER  12"x8" TAPPING SLEEVE 4 VALVE 1 EA 1 E.A. TAPPING SLEVE MUELLER COMPANY/WATER WORKS SUP  8" WATER 310 LF 310 L.F. D.I.P., CL.54 ATLANTIC ST. CASTIRON/ " " " " " " " " " " " " " " " " " " "		QUANTITIES		AS	-BUILT						
12"x8" TAPPING SLEEVE	ITEMS	ESTIMATED									
8" WATER \$10 LF 310 L.F. D.I.P., CL.54 ATLANTIC ST. CASTIRON) " " " " " " " " " " " " " " " " " " "											
8" WATER \$10 LF 310 L.F. D.I.P., CL.54 ATLANTIC ST. CASTIRON) " " " " " " " " " " " " " " " " " " "	12"x8" TAPPING SLEEVE 4	VALVE 1 EA	IEA.	TAPPING SLEVE	MUELL	ER CO	MPANY/	WATER	<b>WORKS</b>	SUPPLY	
8" X 6" TEE 2 EA 2 EA. D.I.P., CL.54 TYLER/UNION FOUNDRY/" " " " " " " " " " " " " " " " " " "			310 L.F.	D. I.P., CL. 54	ATLANT	IC ST. (	CASTIR	ON/ "		11	
## - VIG BEND   5 EA   5 EA   M. J.	8" X 6" TEE	2 EA	2EA.	D.I.P., CL.54	TYLER/	NOINU	FOUND	RÝ/ "	It	11	
6" VALVE 2 EA 2 EA. RWGATE V. MUELLER COMPANY/ " " " " " " " " " " " " " " " " " " "	ey-10 bend	5 EA	5EA.		# /				13	u	
6" VALVE 2 EA 2 EA. RWGATE V. MUELLER COMPANY/ " " " " " " " " " " " " " " " " " " "	8"-116 BEND	/. EA	I EA.		11 /	16	- It	1 11	16	H	
6" FIRE HYDRANT 1 EA 1 EA. 5½" ORANGE MUELLER COMPANY / " " " " 5" CAP & BUTTRESS / EA 1 EA. M. J. TYLER/UNION FOUNDRY / " " " 6" CAP & BUTTRESS / EA 1 EA. M. J. TYLER/UNION FOUNDRY / " " " SEWER  MANHOLES 1 EA 1 EA. 4' PRECAST ATLANTIC CONC. PRODUCTS/WATER WORKS SUPPLY  8" PVC SEWER 60 LF GO L.F. PVC, SDR-35 HAROD / WATER WORKS SUPPLY		2 EA	2 EA.					• •	n	ıţ	
EA   LEA   M.J. TYLER/UNION FOUNDRY/ " " " " " " " " " " " " " " " " " " "	6" WATER	24 LF	19 L.F.	D.I.P., CL.54	ATLANT	IC ST. C	CASTIR	ON/ "	1,1	t <sub>f</sub>	
FA   SEA.   M.J. TYLER/UNION FOUNDRY/ " " " " " " " " " " " " " " " " " " "	6" FIRE HYDRANT	1 EA	1 EA.	5½"ORANGE	MUELLE	R COM	IPANY/	ŧI	41	18	
6" CAP & BUTTRESS	CAPE BUTTRESS	/ EA		M.J.	TYLER/	JNION F	OUNDR	<del>// 11</del>	th	ft	
MANHOLES 1 EA 1 EA. 4' PRECAST ATLANTIC CONC. PRODUCTS/WATER WORKS SUP 8" PVC SEWER 60 LF GO L.F. PVC, SDR-35 HAROD / WATER WORKS SUPPLY	6" CAP & BUTTRESS	1 EA	IEA.	M.J.	TYLERIL	INION F	OUNDR	77 11	il	13	
8" PVC SEWER 60 LF GO L.F. PVC, SDR-35 HAROD / WATER WORKS SUPPLY	SEWER										
8" PVC SEWER 60 LF GO L.F. PVC, SDR-35 HAROD / WATER WORKS SUPPLY	MANHOLES	1 EA	IEA.		ATLANTI	C CONC	PRODUC	TS/WATI	ER WORKS	SUPPLY	
8"DIP SEWER - 10 L.F. D.I.P., CL.54 ATLANTIC ST. CAST IRON/ " "	8" PVC SEWER	60 LF	60 L.F.	PVC, SDR-35	HAROD	/WATE	R WOR	KS SU	PPLY		
	8"DIP SEWER		10 L.F.	D.I.P., CL.54	ATLANT	IC ST. C	AST IR	ON/ II	it	rt	

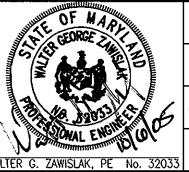
DATE:\_ JULY 2009

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS • SURVEYORS • PLANNERS 8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

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



			_			
DES:	DZ					CINIAL WATER
DRN:	DZ					FINAL WATER
СНК:	WGZ					COVE
DATE: OCTOBER 2005	R4Y	/	MODIFY PLAN FOR SOP-09-022	4/30/09		
	BY	NO.	REVISION	DATE	600' SCALE MAP NO37	

FINAL WATER AND SEWER PLAN **COVER SHEET** 

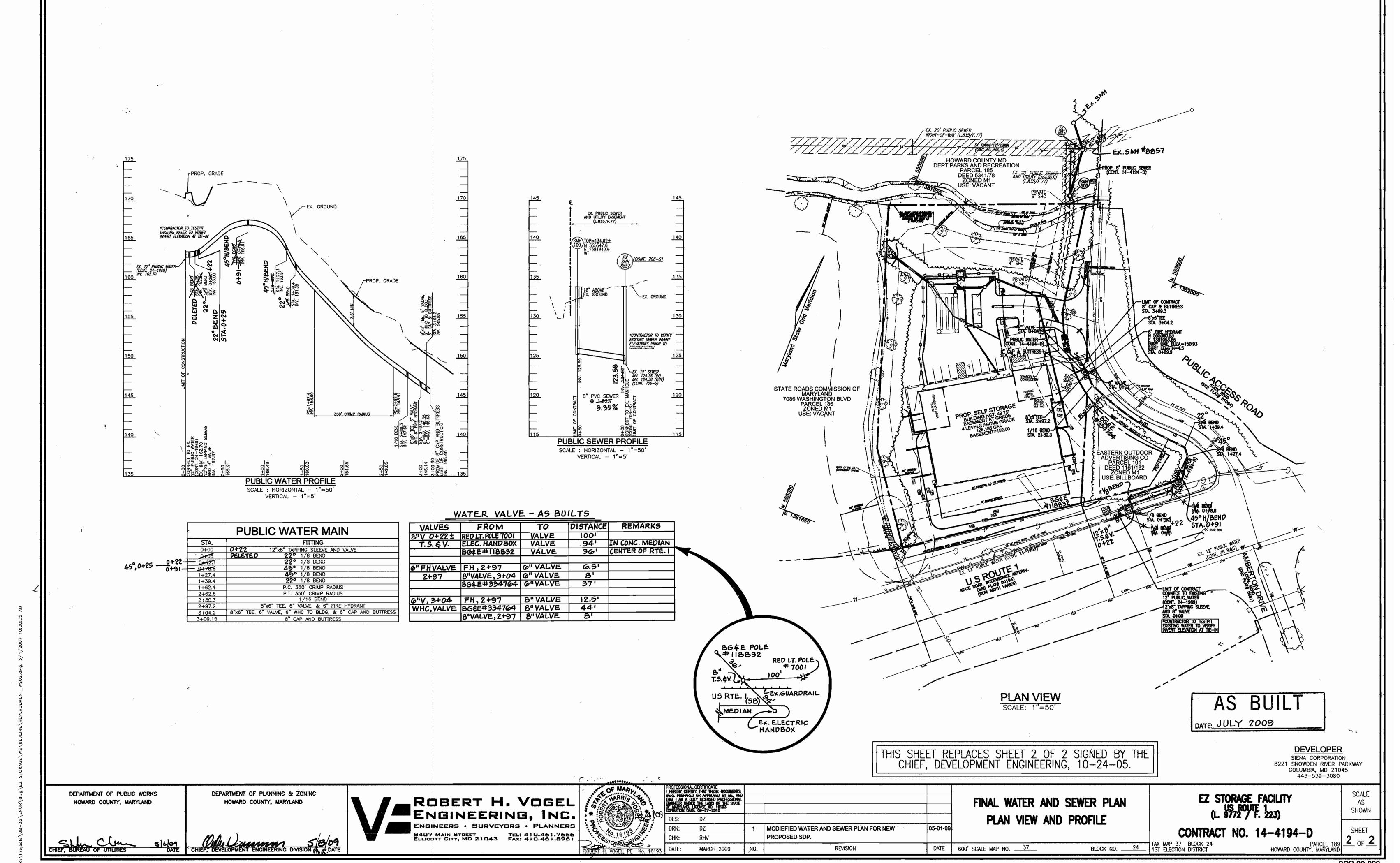
EZSTORAGE FACILITY

TAX MAP 37, BLOCK 24

BLOCK NO. 24 1ST ELECTION DISTRICT

SCALE SHOWN SHEET PARCEL 189 1

HOWARD COUNTY, MARYLAND



SDP-09-022