## GENERAL NOTES

#### PART I

- 1. 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
- 2. TOPOGRAPHY FIELD SURVEYS WERE PERFORMED IN AUGUST, 2004, BY ROBERT H. VOGEL ENGINEERING, INC.
- 3. THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 301B AND 31GB.
- 4. ALL VERTICAL CONTROLS ARE BASED ON (NAVD' 27). VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE: GEODETIC SURVEY CONTROL 30IB (N 566937.926/E 1366270.75)

  BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED AT SOUTH SIDE OF INTERSECTION OF ROUTE 108 AND 100. 2' OFF THE ROUTE 108 GUARD RAILS, AND 26.6' WEST OF GUARD RAIL ENDPOINT.

  GEODETIC SURVEY CONTROL 31GB (N 567567.473/E 1367353.38)

  BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED AREA BETWEEN MACADAM RD, ROUTE 108, AND BARRINGTON COURT.
  24' SOUTH OF MACADAM RD AND 46.6' WEST OF CENTER LINE OF ROUTE 108.
- 6. 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.
- 7. 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.
- 8. 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATION AT HIS OWN EXPENSE.
- 9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
- BGE (CONTRACTOR SERVICE)\_\_ BGE (EMERGENCY) \_410-313-4900 BUREAU OF UTILITIES... COLONIAL PIPELINE CO., 1-800-257-7777 MISS UTILITY\_\_\_ \_\_410-531-5533 STATE HIGHWAY ADMINISTRATION..... \_\_\_1-800-743-0033/410-224-9210
- 10. 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
- 11. 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.
- 12. 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 HOWARD COUNTY CODE.

## PART II - WATER

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 51/2 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 RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE 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.
- 7. FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.

## 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.
- 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 FRAME AND COVERS IS USED, SET TOP OF FRAME 1"-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

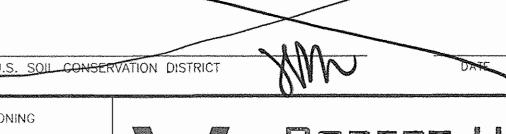
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-07-137.

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL



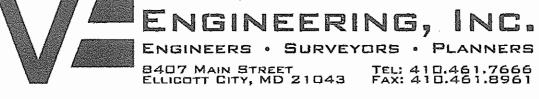
DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND



R HOWARD COUNTY SOIL CONSERVATION DISTRICT AND M

DEPARTMENT OF PLANNING & ZONING ROBERT H. VOGEL HOWARD COUNTY, MARYLAND





# DRN: DZ JANUARY BY NO. REVISION

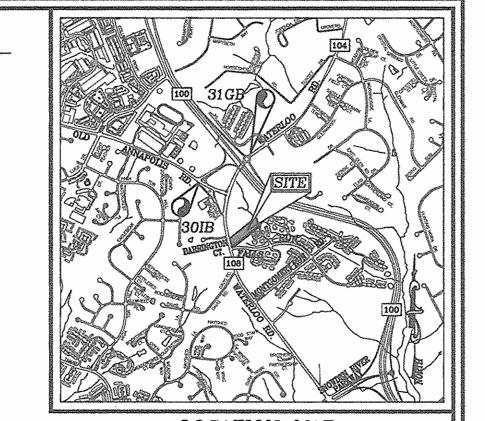
## FINAL WATER AND SEWER PLAN **COVER SHEET**

# WATERLOO OFFICE BUILDING MEDICAL AND GENERAL OFFICE PARCEL A CONTRACT NO.14-4505-D

TAX MAP 31 BLOCK 19 BLOCK NO. 19 1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

## BENCHMARKS FINAL WATER & SEWER PLAN HOWARD COUNTY BENCHMARK 301B N 566937.926 E 1366270.75 ELEV. 526.868 HOWARD COUNTY BENCHMARK 31GB N 567567.473 E 1367353.38 ELEV. 512.080 WATERLOO OFFICE BUILDING MEDICAL AND GENERAL OFFICE



ADC MAP COORDINATES: 16 E5

24-0785-D

PARCELA

CONT. No.14-4505-D

VICINITY MAP SCALE: 1"=600'

WATER CODE: SEWER CODE: TEST GRADIENT:

		QUANT	ITIFS		
NAME OF UTILITY CON	TRACTOR :				
SURVEY AND DRAFTING	DIVISION AS-BUILT DAT	E:	ning and the second commence of the second commence of the second commence in the second commence is a second commence in the second commence in the second commence is a second commence in the second commence in the second commence is a second commence in the second commence in the second commence is a second commence in the second commence in the second commence is a sec		
- William - Care Care Care Care Care Care Care Care	QUANTITIES	AS-BUILT			
items	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
*		WATER	and the state of t		
8" DIP WATER	291 LF				
6" DIP WATER	इस ८				
8" X 6" TEE	3 EA				
8" VALVE	1 EA				
6" VALVE	3 EA				
6" FIRE HYDRANT	2 EA				
8" - 1/8 BEND	2 EA				
8" CAP AND BUTTRESS	1 EA	y naganha pa <u>umana ampana amp</u> ana kalana na ja			
<	<u> </u>	SEWER			
MANHOLE	2 EA 1	OLITUR nyyma tytuyyymadianatainit etiin myös yn yddiadyymagaan mattatain mei a tettienitein tennistetti attetelistete			
		alininasi termiji ingori kindo gyaya jepaniya ijenilaniani a Majiya antito Perilania terbebini doka anii Morteniya jeni to Alinina 11 dijibala terbijia			

MEDICAL AND GENERAL OFFICE Type of Building: No. of Lots/Parcels No. of single Water House Connections No. of twin Water House Connections No. of Sewer House Connections LITTLE PATUXENT RIVER Droinage Area LITTLE PATUXENT (WRP) Treatment Plant:

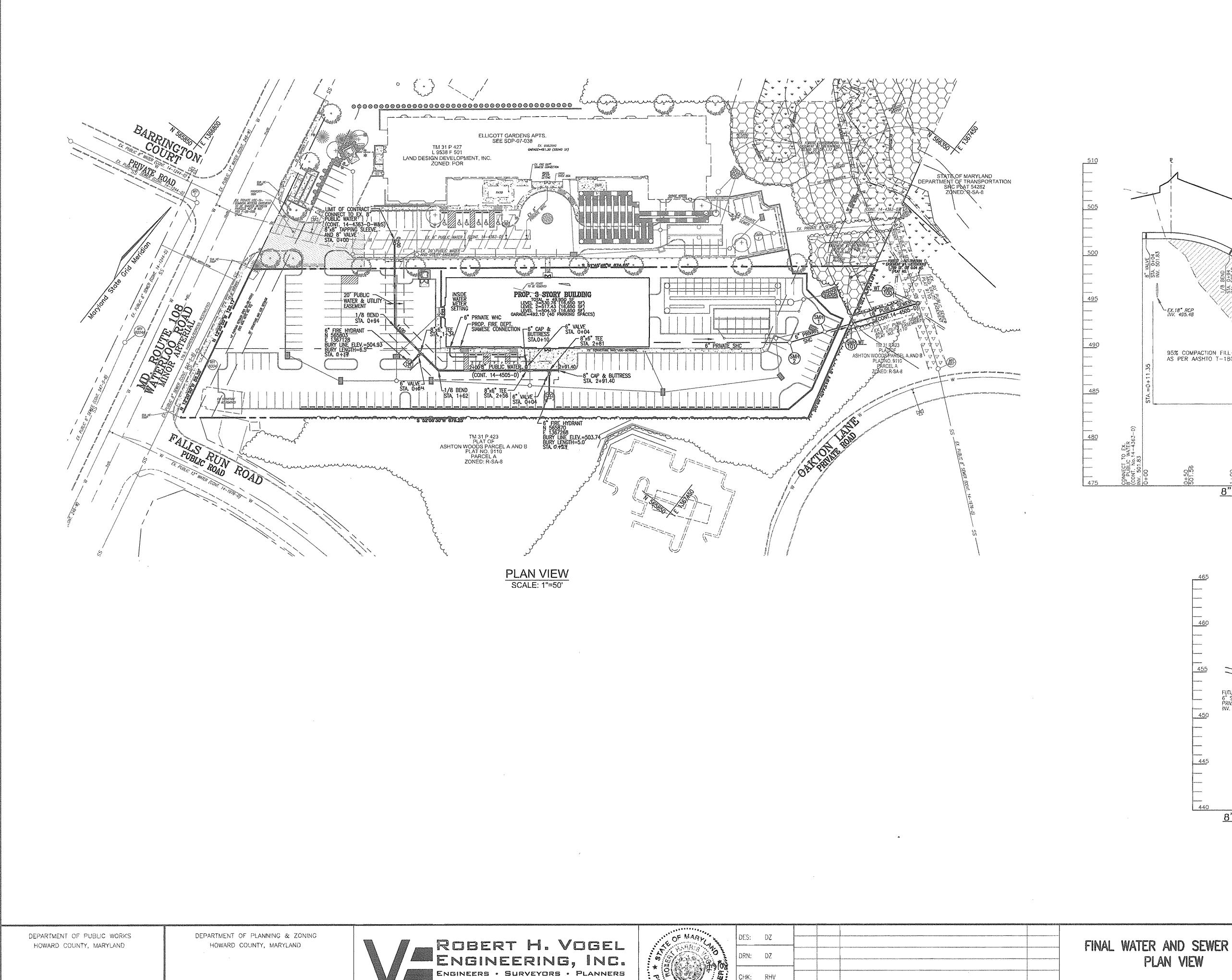
2008

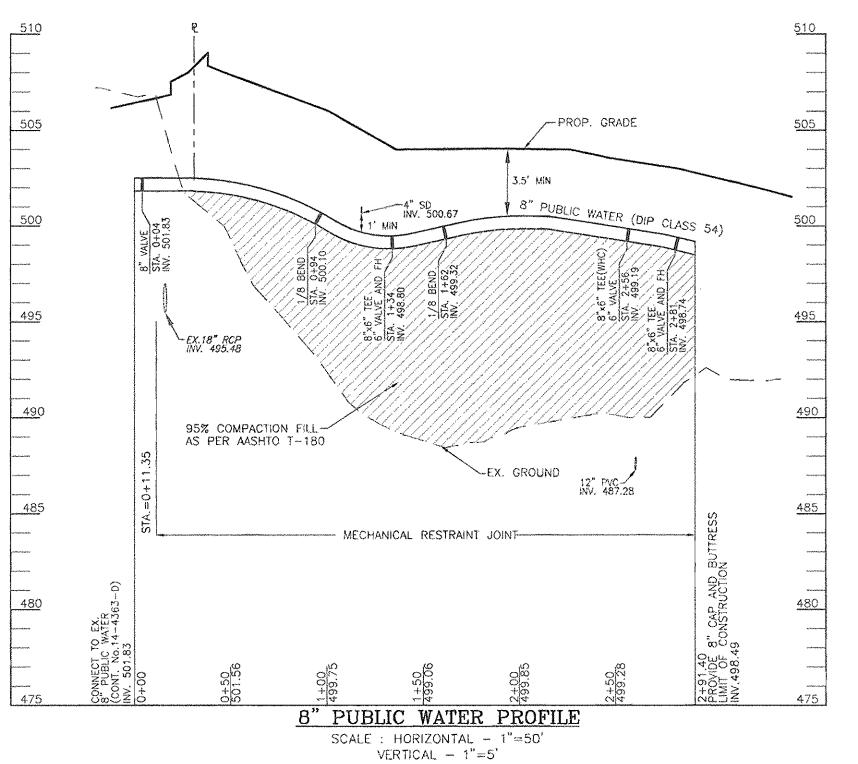
OWNER/DEVELOPER TSC/JMJ WATERLOO ROAD, LLC. 7210 MINSTREL WAY, SUITE 208 COLUMBIA, MD. 21045 443-535-9200

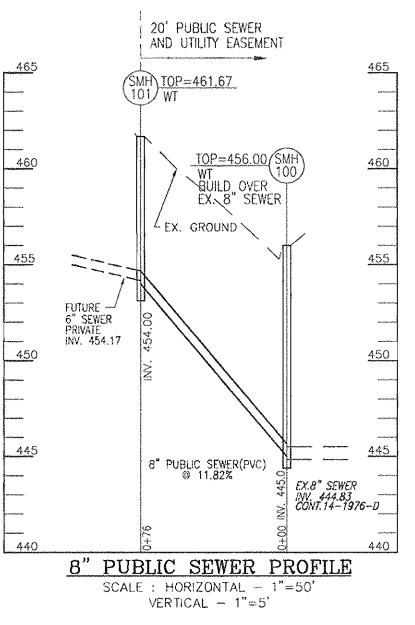
8" PVC SEWER

SCALE

AS SHOWN







BLOCK NO. 19 1ST ELECTION DISTRICT

OWNER/DEVELOPER
TSC/JMJ WATERLOO ROAD, LLC.
7210 MINSTREL WAY, SUITE 208
COLUMBIA, MD. 21045
443-535-9200

80181

8407 Main Street Tel: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

	.,,,,,		•••	
	· ` ^	MAR	10	
	, (, )		7 . °	
	/ Y	N837.8	1.70	. E
			1.5	) ž
69	W/			2.
- 1	NA L	3.15.00	( Note	m
, w	OF		11	100
- 70	E 13			164
Š	. 6			3.5
7.0	4.	- A	ზ, ∕ _ გ	
1	<b>`</b>		_0	
456	10 B	×	ELL.,	,•
The second secon	and the second	Committee of the Commit	e meaning on the	And Delivery of Street,

DES:	DZ					EIRIAI	WATED
DRN:	ĐΖ	American (an Nilling (an American an American and A				LIIAMT	WATER PLA
CHK:	RHV						
DATE:	JANUARY 2008	BY BY	NO.	REVISION	DATE	600' SCALE MAP	NO. 31

FINAL WATER AND SEWER PLAN

WATERLOO OFFICE BUILDING MEDICAL AND GENERAL OFFICE PARCEL A CONTRACT NO.14-4505-D TAX MAP 31 BLOCK 19

SCALE AS SHOWN PARCEL 428, 467
HOWARD COUNTY, MARYLAND

SHEET

2 OF 2