GENERAL NOTES

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 CONTRACTORS EXPENSE.

THE TOPOGRAPHY SHOWN HEREON IS BASED ON AN AERIAL SURVEY BY POTOMAC AERIAL SURVEYS, DATED MAY 15, 2009.

AERIAL SURVEYS, DATED MAY 15, 2009.

5. 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 43EC AND 43EB.
ALL VERTICAL CONTROLS ARE BASED ON (NAVD' 27). VERTICAL CONTROLS
PROVIDED ON DRAWINGS ARE:
GEODETIC SURVEY CONTROL 43 EC (N 550,601.597 E 1,376,866.072)
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED AT
IN GORMAN ROAD; 1' NORTH OF EDGE OF SIDEWALK, ±21' EAST OF
BRIDGE, AND 11.60' NORTH OF GUARDRAIL.
GEODETIC SURVEY CONTROL 43 EB (N 551,654.993 E 1,378,176.951)
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED
IN GORMAN ROAD; BETWEEN SKYLARK BLVD AND I—95 BRIDGE. 1.9' NORTH
SIDE OF SIDEWALK, AND 48.3' AWAY FROM END OF GUARDRAIL.

ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS LINIFSS OTHERWISE NOTED.

WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOT 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 AT HIS OWN EXPENSE.

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)____ BUREAU OF UTILITIES. _410-795-1390 1-800-257-777 .1-800-743-0033

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 PVC (C-900) UNLESS OTHERWISE NOTED.
2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS

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.

8. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.

9. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17)
POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS
USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL TEES USED WITH PVC MAINS SHALL BE DUCTILE IRON.

10. FOR FIRE SPRINKLER SYSTEM, ALL SINGLE FAMILY DWELLINGS WILL HAVE A MINIMUM OF A 1-1/2" WHO WITH A 1" OUTSIDE METER SETTING.

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.

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

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

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-12-001.

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



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS • SURVEYORS • PLANNERS

TYPE OF BUILDING:

DRAINAGE AREA :

TREATMENT PLANT

NO. OF LOTS/PARCELS

NO. OF TOWNHOUSE/APARTMENT UNIT:

NO. OF SEWER HOUSE CONNECTIONS

NO. OF SINGLE WATER HOUSE CONNECTIO

NO. OF TWIN SEWER HOUSE CONNECTIONS

FINAL WATER AND SEWER PLAN

BUCH PROPERTY

TOWNHOUSES AND OFFICE BUILDING

L. 11977, F.517 CONTRACT 24-4752-D

VICINITY MAP

SCALE: 1"=600'

	111100								·	
OF	MAR		PROFESSIONAL CERTIFICATE							
·	ARRIG	Pr.	WERE PREF	A DURY IN	approved i Censed pr	BY ME, AND Offssional				
(ii		610 E	ENGINEER OF MARYLA EVENDATION	UNDER THE ND, LICENS I DATE: NO.	LAWS OF E NO. 1619 -272012	THE STATE 93				
		Aldis	DA WAIRAN DAIL 03-27-2012			· · ·				
	37	4	DRN:	DZ	DES:	DZ				
.‱` •	.161 ³ .	Glaire	CHK:	RHV						·
VOGEL, PE No. 16193		DATE:	SEPTEMBER 2012		BY	NO.	REVISION	DATE		
VUG	CL, PL	No. 16193	<u> </u>	2012						

LITTLE PATUXENT RIVER

PROP. 8" SEWER

(CONTRACT 24-4752-D)

WATER ZONE:

TEST GRADIENT:

____550

700

FINAL WATER AND SEWER PLAN **COVER SHEET** CONTRACT 24-4752-D

BLOCK NO.

600' SCALE MAP NO. <u>43</u>

BUCH PROPERTY TOWNHOUSES AND OFFICE BUILDING L. 11977, F.517 ZONED CAC-CLI PARCEL 426 HOWARD COUNTY, MARYLAND

TAX MAP 43 GRID 3 & 9 1ST ELECTION DISTRICT

N 551,654.993 E 1,378,176.951 ELEV.: 209.601'

LOCATION MAP

SCALE: 1"=2000' ADC MAP COORDINATES: 5054 E2

	•	
	LEGEND	
	EXISTING TREELINE	
	PROPOSED TREELINE	
	EXISTING WATER MAIN	w
	PROPOSED WATER MAIN	
	FIRE HYDRANT	
	PROPOSED VALVE	-Φ-
	PROPOSED TEE	====
	PROPOSED STORM DRAIN	O
i e	EXISTING STORM DRAIN	SD
٠.	PROPOSED PRIVATE SEWER	1-110 101000 011000 0100
	EXISTING SEWER	——ss——
	SEWER MANHOLE	S
	WATER HOUSE CONNECTION	·
	SEWER HOUSE CONNECTION	N
	PROPOSED SIGN	4
	PROPOSED LIGHT	<i>₹</i>

		QUANT	ITIES				
NAME OF UTILITY CONTRAC	CTOR:						
SURVEY AND DRAFTING DIV	VISION AS-BUILT D	ATE:					
	QUANTITIES		AS-BUILT				
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER			
		WATER					
8" WATER C900 PVC (DR-14)	540 LF						
6" WATER C900 PVC (DR-14)	49 LF						
8" X 6" TEE	3 EA						
8" VALVE	2 EA						
6". VALVE	3 EA						
FIRE HYDRANT	2 EA						
1-1/2" WHC	190 LF						
8" 1/8 BENDS	5 EA						
8" 1/16 BENDS	4 EA						
8" - 5° SWEEP	1 EA						
8" COUPLINGS	4 EA						
		SEWER					
MANHOLE.	1 EA						
8" SEWER	18 LF						

HOWARD COUNTY BENCHMARK 43EB

HOWARD COUNTY BENCHMARK 43EC

N 550,601.597 E 1,376,866.072 ELEV.: 210.559

OWNER/DEVELOPER RESIDUARY TRUST OF JAMES R. BUCH JR. 13130 CLARKSVILLE PIKE HIGHLAND, MD 20777 240-375-6294

AS

SHOWN

SHEET

