GENERAL NOTES

PART I

- 1. 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
- 2. EXISTING TOPOGRAPHY IS BASED ON HOWARD COUNTY GIS.
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 0024 AND38BB, AND GEODETIC BENCHMARKS 38BM4 AND 38BM5.

 ALL VERTICAL CONTROLS ARE BASED ON NAVD' 88. VERTICAL CONTROLS
- GEODETIC SURVEY CONTROL 0024 (N 565,065.4485/E 1,395,212,167/ ELEV.=26.949')
 RAMP FROM RT-985 TO ROUTE 1, 73.5' WEST OF G&E POLE #487813, 81.75' NE
 OF G&E POLE # 229974 AND 8.5' SE OF GUARDRAIL.
- GEODETIC SURVEY CONTROL 38BB (N 564,007.645/E 1,393,649.926/ ELEV.=63.655')

 LEAD AND TACK ON CONCRETE CURB, ROUTE 1 NORTH OF WASINGTON BLVD.
 28.92' NW OF CONCRETE CURB IN PARKING LOT OF J.H. TOOMEY HARDWARE, AND
- GEODETIC SURVEY CONTROL 38BM4 (N 563,602.10/E 1395768.99/ELEV.=30.820')
 3/4" REBAR AT CORNER OF FURNACE ROAD AND RAILROAD AVENUE, 4.7' SOUTH OF
 CORNER OF INLET AT NW OF RAILROAD AVE, 3.7' WEST OF FC AT NW CORNER OF
 RAILROAD AVE, AND 8.1' NE OF BGE POLE #263550.
- GEODETIC SURVEY CONTROL 38BM5 (N 564,441.00/E 1,394,694.00,/ELEV.=42.368')
 3/4" REBAR AT CORNER OF LEVERING AVENUE AND MAIN STREET, 9' SW OF SSMH,
 5.5' EAST OF WATER VALVE, AND 2.6' SOUTH OF THE SE POINT OF INTERSECTION
 OF THE SIDEWALK AND CURB AT LEVERING AVENUE.
- 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 CONSTRUCTIO 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.
- 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.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

- 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 HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE PVC C900 AWWA C605 CL DR-14 UNLESS OTHERWISE NOTED.
 TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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 THE 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 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.
 THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE
- 7. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTRY DESIGN MANUAL.

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.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT
 FRAME AND COVERS, 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 CELLAR CANNOT BE SERVED.

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

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

John Rybertson
SON CONSERVATION DISTRICT

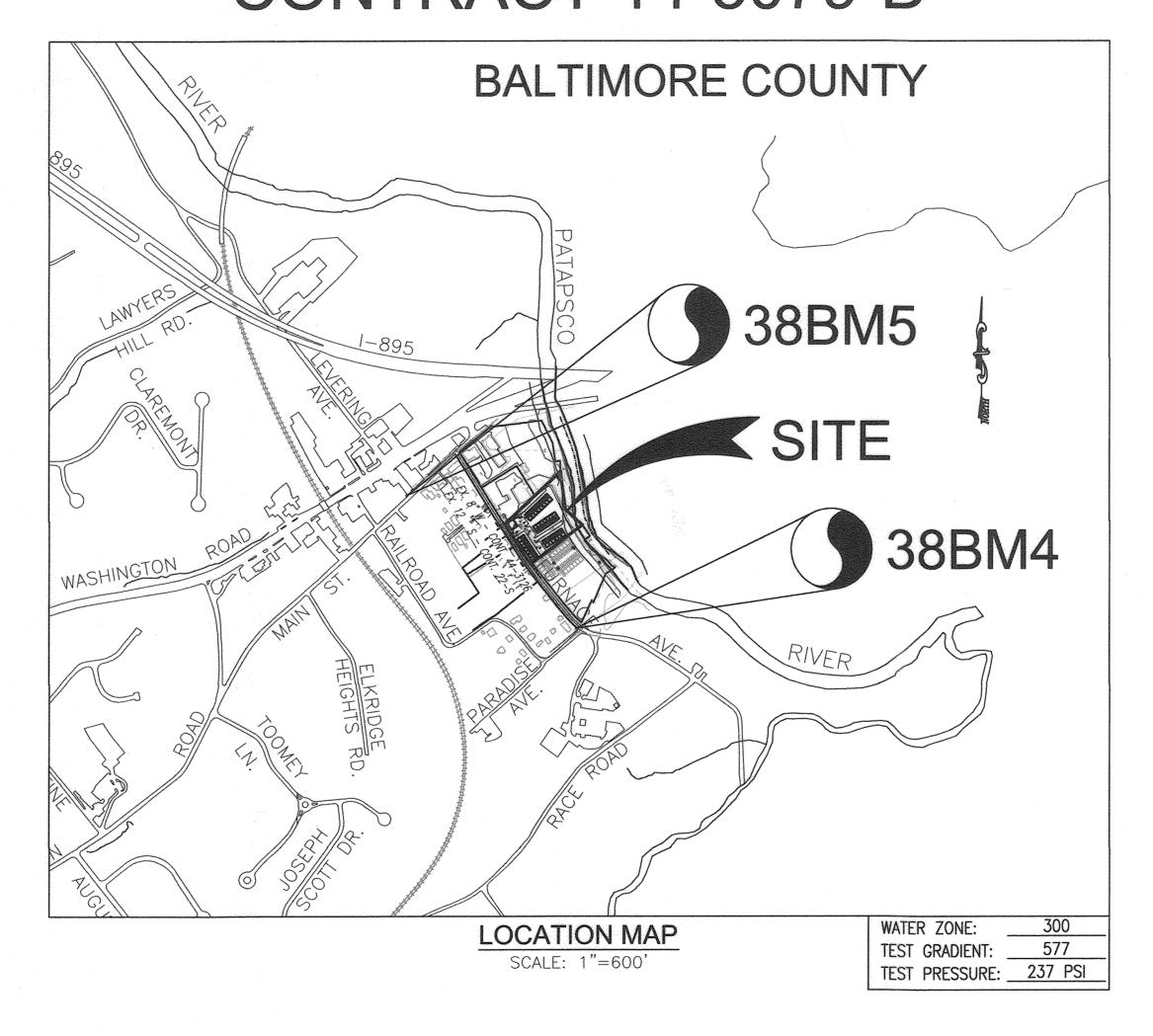
8/12/19

FINAL WATER AND SEWER PLAN

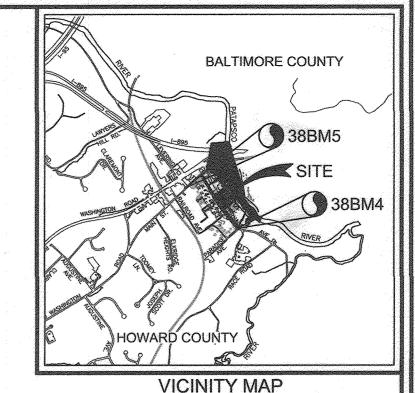
RIVER WATCH II 5635-5659 FURACE AVENUE

TAX MAP 38 GRID 04
PARCEL 782
1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND CONTRACT 14-5079-D



TYPE OF BUILDING :	RESIDENTAIL / MIXED USE		
NO. OF BUILDING : 4 STACKED TOWNHO	4 STACKED TOWNHOUSE APARTMENT BLDGS / 1 CLUBHOUS		
NO. OF LOTS/PARCELS :	1		
NO. UNITS :	58 APTS. / 1 COMMERCIAL		
NO. OF SINGLE WATER HOUSE CONNECTIONS :	5		
NO. OF TWIN WATER HOUSE CONNECTIONS :	0		
NO. OF SEWER HOUSE CONNECTIONS :	5		
DRAINAGE AREA:	DEEP RUN 1		



VICINITY MAP

SCALE: 1"=2000'

ADC MAP COORDINATE: 40.77 C/

SHEET INDEX	
DESCRIPTION	SHEET NO.
COVER SHEET	1 OF 2
PUBLIC FINAL WATER AND SEWER PLAN AND PROFILES	2 OF 2

	(QUANTIT	TES A	
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BU	ILT DATE :	de terresista de la companio en escena de la confederación de la confederación de la companio de la companio d La confederación de la companio en escena de la confederación de la confederación de la confederación de la co		
	QUANTITIES		AS-BUILT	
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
	WATER	Marine terre a service and the service and a service and a service at the service and service and a service and	<u> </u>	
8"x8" TAPPING SLEEVE	1 EA	(EA.	EPOXY COATED DI	STAR PIPE
8" WATER - C900 (AWWA C605) CL DR-14	400 LF	400 LF	PVC	NORTH AMERICAN
8" VALVE	3 EA	4 EA.	EPOXY COATED DI	AMERICAN FLOW CONTROL
6" WATER - C900 (AWWA C605) CL DR-14	83 LF	84 L.F.	PVC	NORTH AMERICAN
8" 1/8 VB	4 EA	4 EA.	EPOXY COATED PI	STAR PIPE
8" 1/16 VB	2 EA	2 EA.		
8" 5 DEGREE VERTICAL SWEEP	1 EA) EA.	pre	
6" 1/32 HB	1 EA	I EA.	EPOXY COATED DI	STAR PIPE
8" X 8" TEE	1 EA	1 EA.		
8" CAP AND BUTTRESS	2 EA	2 EA.		
8" X 6" TEE	5 EA	5 EA.	<u> </u>	:
6" VALVE	5 EA	5 EA.		AMERICAN FLOW CONTRO
FIRE HYDRANT, 8 x 6" TEE AND VALVE	3 EA	3 EA.	DUCTILE IRON B848	AMERICAN DARLING
	SEWER			
8" SEWER DIP (CL- 52)	29 LF	29 LF	PVC	NORTH AMERICAN
DOGHOUSE MANHOLES	1 EA	J EA		CONTRACTORS PRECAST GROU
TYPE 'B' DROP CONNECTION	1 EA	I EA		
PRECAST MANHOLES	1 EA	1 EA		

LEGEND:	
	EXISTING CURB AND GUTTER PROPOSED CURB AND GUTTER EXISTING UTILITY POLE
Ä	EXISTING LIGHT POLE
	EXISTING MAILBOX EXISTING SIGN
SD	EXISTING CLEANOUT EXISTING STORM DRAIN EXISTING STORM DRAIN INLET
	TREELINE EXISTING FENCE PROPERTY LINE
S)S	RIGHT-OF-WAY LINE EXISTING SANITARY MANHOLE EXISTING SANITARY LINE
₩	EXISTING FIRE HYDRANT EXISTING WATER LINE PROPOSED WATER
· · · · · · · · · · · · · · · · · · ·	PROPOSED FIRE HYDRANT PROPOSED SEWER 100 YEAR FLOODPLAIN

BLOCK NO. 4

OWNER

VBH LLC

9113 BRAE BROOKE DRIVE
LANHAM , MD 20706

DEVELOPER

J. KIRBY DEVELOPMENT, LLC
C/O JEFF KIRBY, PRESIDENT
5760 B FURNACE AVENUE
ELKRIDGE, MD 21075
PHONE: (410) 788-0027

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

IC WORKS DEPARTMENT OF PLANNING & ZONING
ARYLAND HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES DATE CHIEF, DE

CHIEF, DEVELOPMENT ENGINEERING DIVISION M.G. D.



OF MARNING OF HARRIS TO SEE THE PARTY OF THE	PROFESSIONAL OF I HEREBY CERTIFY WERE PREPARED THAT I AM A DULL ENGINEER UNDER OF MARYLAND, LICEXPIRATION DATE:
5/10/19	DES:
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ROJERT H. VOGEL, PE No. 16193	DATE:

3	I HEREBY CEI WERE PREPAR THAT I AM A	AL CERTIFICATE RTIFY THAT THESE DOCUMENTS RED OR APPROVED BY ME, AND DULY LICENSED PROFESSIONAL DER THE LAWS OF THE STATE LICENSE NO. 16193 ATE: 09-27-2020)				FINAL WATER
/14/19	DES:	GAH					COVE
S. Marian S. Mar	DRN:	GAH					00 V L
A THE PARTY OF THE	CHK:	RHV		AS BUILT QUANTITIES	-	3/18/22	
No. 16193	DATE:	MAY 2019	NO.	REVISION		DATE	600' SCALE MAP NO28

FINAL WATER AND SEWER PLAN
COVER SHEET

RIVER WATCH II 5635-5659 FURNACE AVENUE CONTRACT NO. 14-5079-D

AS SHOWN

SHEET

782

1 OF

TAX MAP 38, GRID 04 1ST ELECTION DISTRICT PARCEL 782 HOWARD COUNTY, MARYLAND

