GENERAL NOTES

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. TOPOGRAPHY FIELD SURVEYS WERE PERFORMED IN AUGUST, 2004, BY ROBERT H. VOGEL ENGINEERING, INC. AND OFFSITE

TOPOGRAPHY FROM HOWARD COUNTY GIS AND DRAWINGS OF RECORD. THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 30IB AND 31GB.

ALL VERTICAL CONTROLS ARE BASED ON (NAVD '88). 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. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED. 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 LOCATIONS 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.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

1-800-252-1133 410-850-4620 BGE (CONTRACTOR SERVICE) 410-685-1400 410-313-4900 BUREAU OF UTILITIES COLONIAL PIPELINE CO 410-795-1390 1-800-257-7777 MISS UTILITY STATE HIGHWAY ADMINISTRATION 410-531-5533

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 THE CONSTRUCTION OF THE MAIN. 1. 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 SHALL BE C900 PVC-DR-18 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. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE

WITH THE HOWARD COUNTY DESIGN MANUAL. 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. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, 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. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON

ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH

10. PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTOR'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTIONOF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.

11. ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFECTION COUPLING OR 5-DEGREE SWEEP TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.

- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFECTION OF 3-DEGREES (1-1/2 DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. - FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE

REQUIREMENTS OF AWWA COOO AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL WHEN PVC HIGH DEFECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES

5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON INC. OR APPROVED EQUAL 13. SPRINKLER SYSTEM FOR SINGLE RESIDENTIAL DWELLING UNITS SHALL HAVE WATER HOUSE CONNECTIONS AND WATER METERS THAT ARE SIZED IN ACCORDANCE WITH THE DESIGN OF THE SPRINKLER SYSTEMS. SPRINKLER SYSTEMS FOR SINGLE RESIDENTIAL DWELLINGS SHALL HAVE A MINIMUM OF 1.5" SERVICE CONNECTION WITH A 1" OUTSIDE METER

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.
- 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 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.

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

SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-20-027.

VOGEL ENGINEERING

THE NEW TIE IN ON MD ROUTE 108.

TIMMONS GROUP

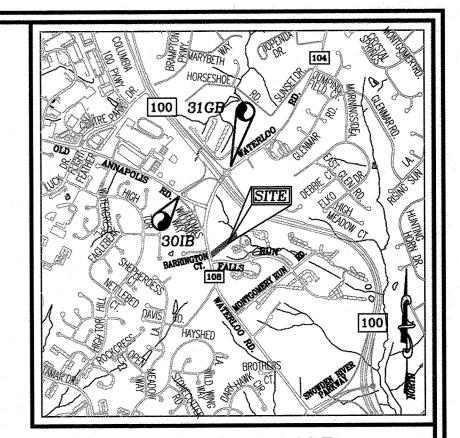
P: 410.461.7666 F: 410.461.8961 www.timmons.com



DES:	RHV/DZE					FINAL WATER
DRN:	LRC/KG/MP					COVI
			-		dalihanoosa era analanoosa era anala	COVI
CHK:	RHV					
	HAV	WRA	1	AS BUILT "QUANTITIES	3/9/23	
DATE:	MAY 2021	BY	NO.	REVISION	DATE	600' SCALE MAP NO. 31

BENCHMARKS

HOWARD COUNTY BENCHMARK 30IB N 566937.926 E 1366270.75 ELEV. 526.868 HOWARD COUNTY BENCHMARK 31GB N 567567.473 E 1367353.38 ELEV. 512.080



LOCATION MAP SCALE: 1"=2000'

ADC MAP 27, GRID F8

100	24-3604-D. L. E.	14-1938-D 14-1767-D	1 110
PROP. 8" SEWER (CONT.14-5126-D)	ETKO SPECIAL OF THE S	14-1258-D 2 14-1938	3-1
3° 358-V&S 24-3001 64-V 55 24-3001 78-24-300	DAKTON LA. SI'	TE C78 82	NORTH S-945
358-W&S 6 6 358-W&S 6 6 358-W&S 6 6 358-W&S 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	RUN 14.1802-10 do 8'	Service Control of the Control of th	546-5
358-W&S 24-1898-D 24	EASTER 2011 14-1595-D 14-1595-D 14-1595-D 8'	14-1595-D 14-1827-D RUN 14-1827-D	00 12
8' 356 W&S 24-1750-D 24-1750-D 24-1750-D 24-1750-D 24-1750-D 24-1750-D 24-1750-D 24-1750-D 24-1750-D	630-E 550		
24-1527-D 24-0785-D 24-0785-D 24-1527-D 24-1843-D 24-1843-D	4-1457-D 8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8		246-5
VICIN	NITY MAP	WATER ZONE: _ TEST PRESSURE _	630-E 177.29 PSI
SCALI	E: 1"=600'	TEST GRADIENT:	

FINAL WATER & SEWER PLAN

ELLICOTT GARDENS II

HOUSING COMMISSION HOUSING DEVELOPMENT: 70 APARTMENTS

5511 & 5513 WATERLOO ROAD

CONT. NO. 14-5126-D

1. UNLESS OTHERWISE APPROVED BY THE FIRE DEPARTMENT, THE FOLLOWING PROVISIONS

SHALL APPLY TO A FIRE DEPARTMENT CONNECTION FOR FIRE PROTECTION SYSTEMS: I. A FIRE DEPARTMENT CONNECTION FOR FIRE PROTECTION SYSTEMS SHALL BE LOCATED: A. ON THE SIDE OF THE STRUCTURE DISPLAYING THE ADDRESS CLEARLY VISIBLE TO THE RESPONDING UNITS;

B. WITHIN 100FT OF A FIRE HYDRANT:

II. THE APPROPRIATE SIGN SHALL BE MOUNTED ON THE BUILDING'S WALL BETWEEN 8 AND 12 FEET ABOVE THE FIRE DEPARTMENT CONNETION;

III. A FREE-STANDING FIRE DEPARTMENT CONNECITON SHALL HAVE THE SIGN MOUNTED ON A POLE DIRECTLY BEHIND THE CONNECTION APPROXIMATELY 6 FEET HIGH; IV. SIGNS SHALL HAVE A WHITE REFLECTIVE BACKGROUND WITH A RED REFLECTIVE BORDER, RED REFLECTIVE LETTERS AND A RED REFLECTIVE ARROW. THE BORDER

SHALL HAVE A 3/8" STROKE. THE LETTERS SHALL BE 6" HIGH WITH A 1" STROKE. THE ARROW SHALL HAVE A STROKE NOTE LESS THAN 2". THE OVERALL SIGN MEASURMENETS SHALL BE 12" BY 18"; V. ANY OBSTRUCTION OR CONDITION THAT DETERS OR HINDERS ACCESS TO A FDC IS PROHIBITED. A MINIMUM CLEAR SPACE OF 15 FEET (7.5 FEET ON ALL SIDES) SHALL

BE MAINTAINED. 2. REF. DMV2-21-016, APPROVED MAY 4, 2021 TO WAIVE SECTION 3.3.B.2.b.1 OF THE WATER AND SEWER DESIGN MANUAL, VOLUME II, WHICH REQUIRES A WATER SUPPLY MAIN TO BE LOOPED WHEN IT IS EITHER LONGER THAN 2,500 FEET OR SERVES MORE THAN 50

UNITS. APPROVAL IS SUBJECT TO FOLLOWING CONDITIONS: A. DESIGNING THE COUNTY PREFERED WATER MAIN ALIGNMENT WHICH SHORTEN THE PIPE RUN AND, ALSO ENHANCE THE RELIABILITY OF THE WATER SUPPLY TO PROPOSED ELLICOTT GARDENS II AND EXISTING ELLICOTT GARDENS I.

B. ABANDONING OF THE EXISTING WATER HOUSE CONNECTION LOCATED JUST SOUTH OF

TYPE OF BUILDING :	RESIDENTIAL APARTMENTS
NO. OF UNITS:	70 APARTMENT UNITS
NO. OF LOTS/PARCELS :	1
NO. OF SINGLE WATER HOUSE CONNECTIONS :	1
NO. OF TWIN WATER HOUSE CONNECTIONS :	0
NO. OF SEWER HOUSE CONNECTIONS :	<u> </u>
DRAINAGE AREA :	LITTLE PATUXENT RIVER
TREATMENT PLANT :	LITTLE PATUXENT (WRP)

LEGEND	
EXISTING TREELINE	mmmmmm.
PROPOSED TREELINE	
EXISTING WATER MAIN	W
PROPOSED SEWER MAIN	
PROPOSED WATER MAIN	
FIRE HYDRANT	
PROPOSED VALVE	<u>Σ</u>
PROPOSED TEE	
PROPOSED STORM DRAIN	0
EXISTING STORM DRAIN	SD parameters and the second
PROPOSED STORM DRAIN	· · · · · · · · · · · · · · · · · · ·
EXISTING SEWER	SS
SEWER MANHOLE	0
PRIVATE WATER HOUSE CONNECTION	
PRIVATE SEWER HOUSE CONNECTION	
PROPOSED SIGN	<u>.</u>
PROPOSED LIGHT	

	NAME OF UTILITY CONTRAC	TOD . BOOLEY CO	WATOUCTION III		
	SURVEY AND DRAFTING DIV	/ISION AS-BUILT DAT	E: 3/1/2023		
		QUANTITIES		AS-	-BUILT
	ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
	11 (110)		WATER		
	8" WATER PVC C-900 (DR-18)	379 LF	342	C-900/DR-18	JM EAGLE BELAIR ROAD SUPPLY
	C-9006" > WATER (FH)DR-JB	21 LF	20	C-900/DR-18	
	8" X 8" TAPPING SLEEVE & V.	1 EA	1	55T5	JCM /
TEE	-12" X 8" TAPPING SLEEVE & V:	1 EA	1	LMXLM	SIPIND./
-	8" X 8" TEE	1 EA	1	MJ×MJ	STAR PIPE/ ·· ··
	8" X 6" TEE	1 EA	1	LM × LM	STAR PIPE/ ·· ·· ··
	12" VALVE	1 EA		MJ GATE-RS	MUELLER/
	8" VALVE	1 EA	2	MJ GATE - RS	MUELLER/
	6" VALVE	1 EA		MJ GATE-RS	MUELLER/ ·· ··
	FIRE HYDRANT & TEST STATION	1 EA		5' ORANGE	MUELLER/
	8" - 1/8 BEND	3 EA	5	из	STAR PIPE/BELAIR ROAD SUPPLY
	8" - 1/16 BEND	3 EA	4	ЬМ	STAR PIPE/
	8" - 1/32 BEND	1 EA	i	MJ	STAR PIPE/
WEEP	-8" CAP AND BUTTRESS	1 EA	1	C-900/DR-14	GALAXY PLASTICS/ ·· ··
			SEWER		
	4' STANDARD MANHOLE	2 EA	2 EA		ATLANTIC CONCRETE
	* 8" PVC SEWER-SDR 35	76 LF	76 LF	5 PR - 35	JM EAGLE/BELLAIR ROAD SUPPLY

FINAL WATER AND SEWER PLAN

COVER SHEET

OWNER/DEVELOPER HOWARD COUNTY HOUSING COMMISSION 9770 PATUXENT WOODS DRIVE COLUMBIA, MD 21046

410-730-3725

SCALE

STAR PIPE /BELAIR ROAD SUPPLY

STAR PIPE / BELAIR ROAD SUPPLY

CONTRACT NO. 14-5126-D

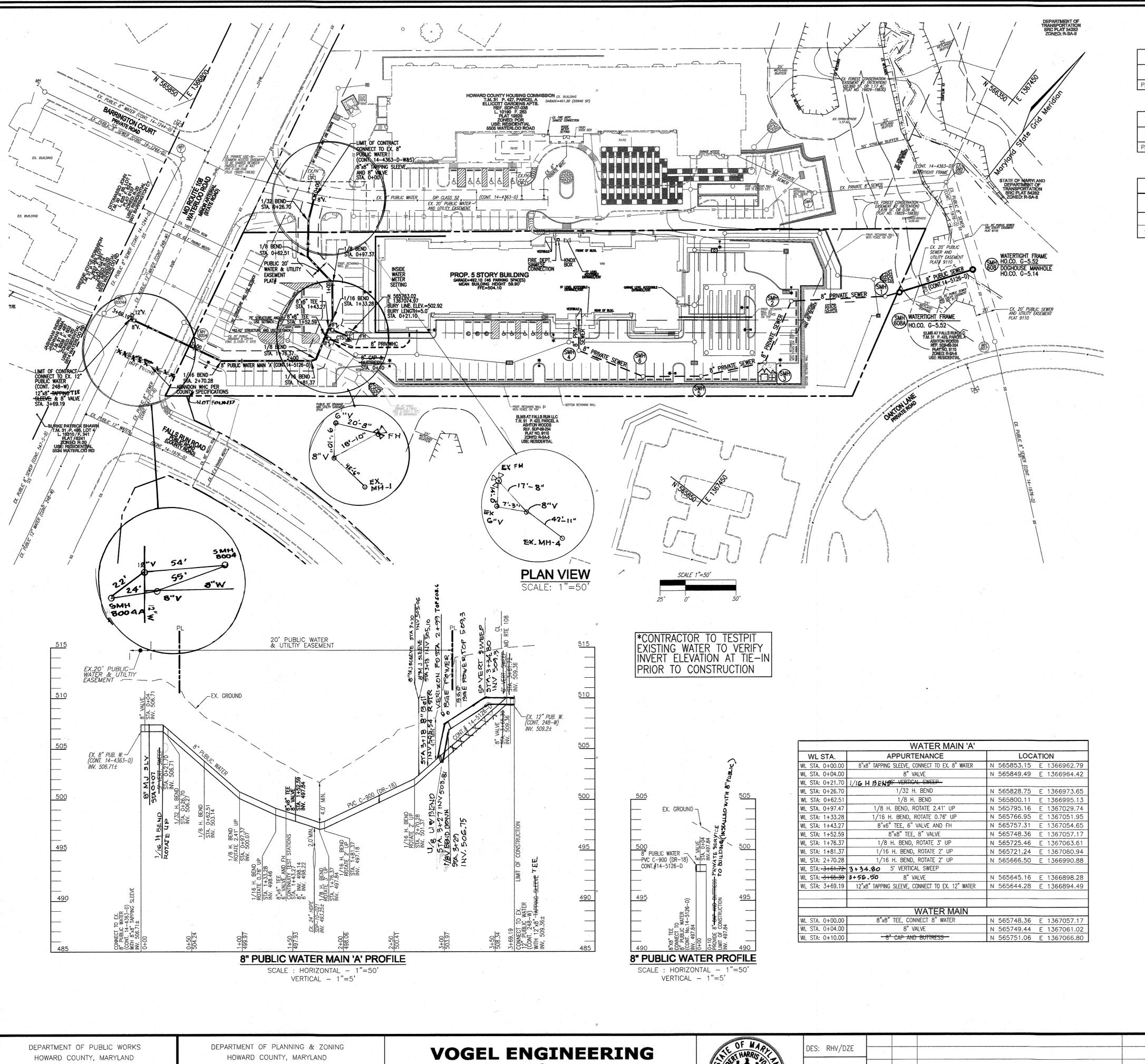
ELLICOTT GARDENS II

AS SHOWN

PARCEL 428, 467 BLOCK NO. 19 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

6.10.ZI

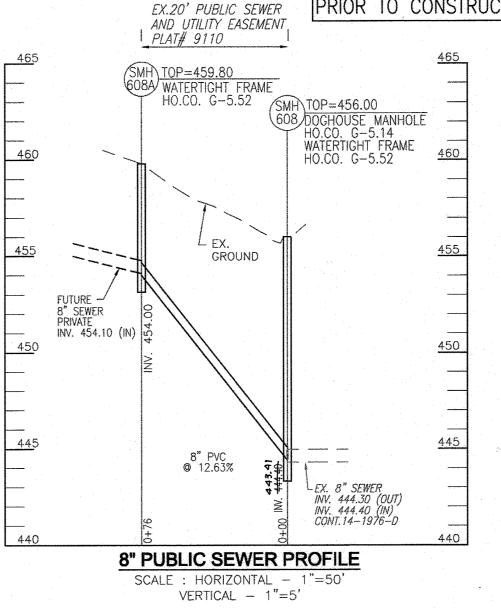


WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE									
UNIT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2						
PARCELS 428 & 467	5511 & 5513 WATERLOO ROAD								

	SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE								
	UNIT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2					
1	PARCELS 428 & 467	5511 & 5513 WATERLOO ROAD		4					

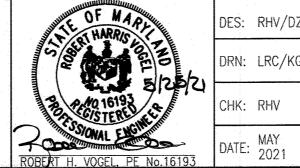
SEWER MANHOLE SCHEDULE								
NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	COMMENT		
SMH 608	PRECAST MH HO. CO. STD. DET. G-5.14	N 566194.00 E 1367521.69	456.00	444.40 444.40	444.30	DOGHOUSE MANHOLE G-5.14; WATERTIGHT FRAME		
SMH 608-A	PRECAST MH HO. CO. STD. DET. G-5.12	N 566131.88 E 1367478.35	459.80	FUTURE 454.10	454.00	STANDARD MANHOLE; WATERTIGHT FRAME		

EXISTING SEWER TO VERIFY INVERT ELEVATION AT TIE-IN PRIOR TO CONSTRUCTION



OWNER/DEVELOPER HOWARD COUNTY HOUSING COMMISSION 9770 PATUXENT WOODS DRIVE COLUMBIA, MD 21046 410-730-3725

TIMMONS GROUP 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043 P: 410.461.7666 F: 410.461.8961 www.timmons.com



,.						Openiosase object		-
	DES:	RHV/DZE				The state of the s	FINAL	WATED
	DRN:	LRC/KG/MP					LINVE	MAILIN
5/21			·	-		nerona consequence de la consequence della conse	* .	PLA
	CHK:	RHV				-		
		MAV	WRA	1	AS BUILT	3/10/23	-	
حـ 193	DATE:	MAY 2021	BY	NO.	REVISION	 DATE	600' SCALE MAP N	vo. <u>31</u>

FINAL WATER AND SEWER PLAN PLAN VIEW

CONTRACT NO. 14-5126-D

ELLICOTT GARDENS II
HOUSING COMMISSION HOUSING DEVELOPMENT: 70 APARTMENTS
5511 & 5513 WATERLOO ROAD
ZONED: POR

SHEET ZONED: POR PARCEL 428, 467 HOWARD COUNTY, MARYLAND

SCALE

AS

SHOWN

6.10.21 N DATE

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