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 CONTRACTOR'S EXPENSE.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT INTERVALS, PREPARED BY SHANABERGER AND LANE DATED OCTOBER 30, 2001. ADDITIONAL EXISTING TOPOGRAPHY SHOWN TAKEN FROM AN AERIAL TOPOGRAPHICAL SURVEY PREPARED BY POTOMAC AERIAL SURVEYS, DATED JANUARY 2008 AND FROM RECENTLY PROVED GRADING PLANS.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS, COORDINATES AND ELEVATIONS ARE BASED ON MARYLAND COORDINATE SYSTEM NAD83 (1991) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 43HA AND 48AA.
- THE PROJECT BOUNDARY SHOWN HEREON ARE BASED ON A PLAT BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH 2013.
- 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 OF 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:

.410-531-5533

- BGE (CONTRACTOR SERVICE). .410-637-8713 BGE (EMERGENCY). BUREAU OF UTILITIES. .410-795-1390 MISS UTILITY. 1-800-257-7777
- 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.
- (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

ALL WATER MAINS TO BE PVC C900 UNLESS OTHERWISE NOTED

STATE HIGHWAY ADMINISTRATION.

- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 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
- 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 QUALIFICATIONS TEST REQUIREMENTS, NOTED IN SECTION 5.1 OF THE AWAA STANDARD C900 FOR PVC PRESSURE PIPES SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO THE 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 PIP 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 THE PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. 17 POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. 12 POUND ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS, ALL "TEES" USED WITH PVC
- 10. PROPER ASSEMBLY OF GASKETED PVC JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSTERTION LINES SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATIE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION INTO THE SPIGOT BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE PVC PIPE.
- 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 ON 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
- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION 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 CHEEN 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, DR 18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR
- WHEN PVC HIGH DEFLECTION 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 DEFLECTION 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 INCORPORATES 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 APPROVAL EQUAL.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-20-050.

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

SOIL CONSERVATION DISTRICT

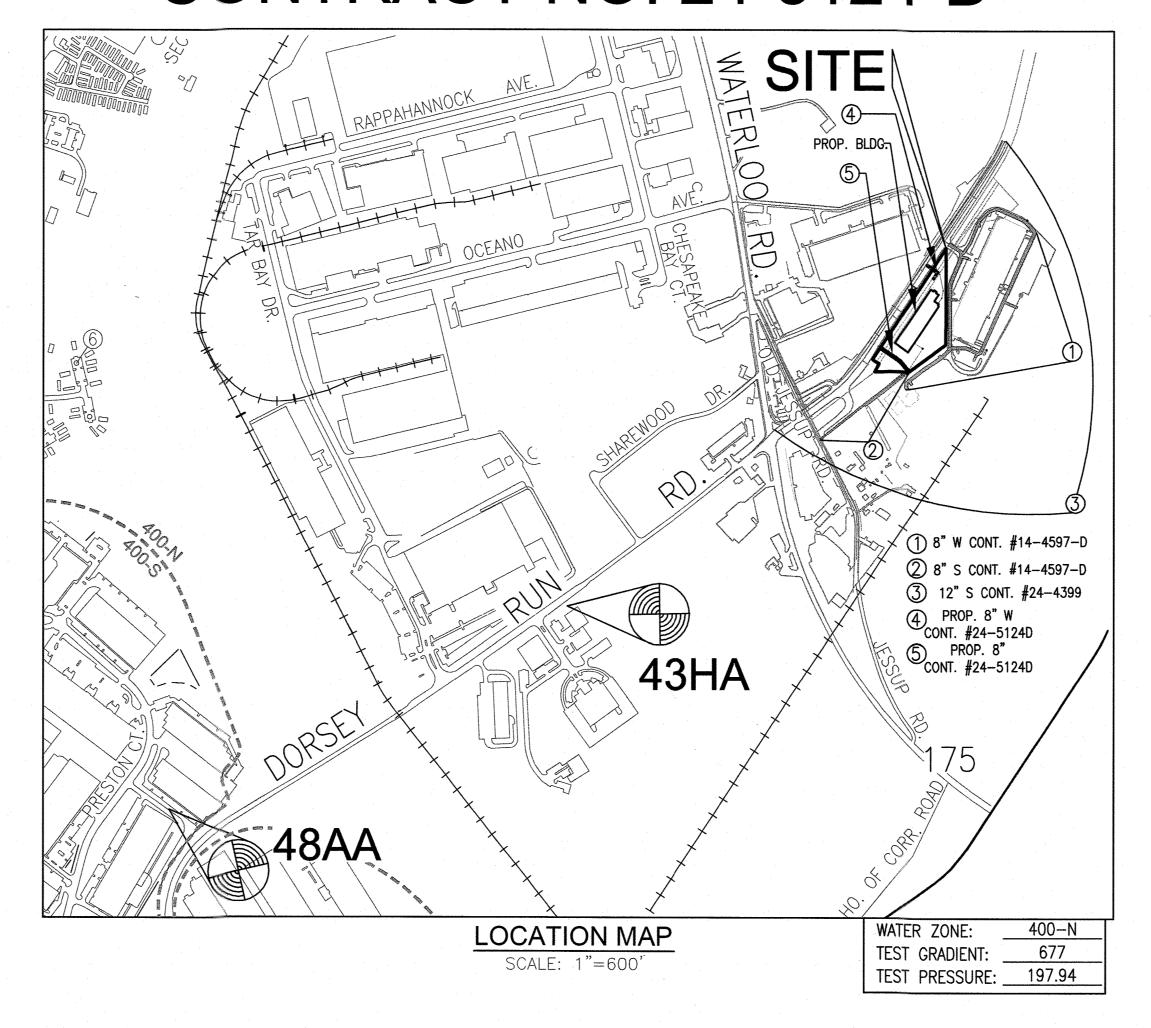
11/10/21

FINAL WATER AND SEWER PLAN

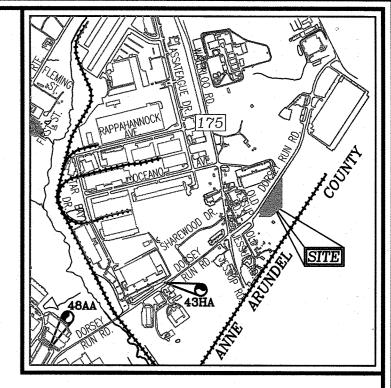
TPC RACING 7869 DORSEY RUN ROAD

TAX MAP 43 GRID 22 PARCEL 108-B 1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND CONTRACT NO. 24-5124-D



TYPE OF BUILDING :	FLEX WAREHOUSE
NO. OF LOTS/PARCELS :	1
NO. OF SINGLE WATER HOUSE CONNECTIONS :	1
NO. OF TWIN WATER HOUSE CONNECTIONS :	0
NO. OF SEWER HOUSE CONNECTIONS :	1
DRAINAGE AREA:	LITTLE PATUXENT RIVER



VICINITY MAP SCALE: 1"=2000' ADC MAP: 5054 G4

BENCHMARKS

HOWARD COUNTY BENCHMARK 48AA N 539,314.900 E 1,371,539.251 ELEV.: 240.78' HOWARD COUNTY BENCHMARK 43HA N 540,761.716 E 1,373,837.365 ELEV.: 224.89'

		QUANT	ITIES	
NAME OF UTILITY CONTRACTO	R :			
SURVEY AND DRAFTING DIVISION	ON AS-BUILT DA	IE:		
	QUANTITIES		AS	-BUILT
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
		PUBLIC WATER		
12"x8" TAPPING SLEEVE & VALVE	1 EA			
8" WATER - C900 (DR-18)	92 LF			
6" WATER - C900 (DR-18)	42 LF			
8" 3" COUPLING (DN)	1 EA.			
2" VERT. COUPLING (UP)	1 EA.			
8" X 6" TEE	1 EA		·	
6" VALVE	1 EA			
6" FIRE HYDRANT	1 EA			
8" VALVE	1 EA			
8" TEMP. CAP AND BUTTRESS	1 EA.			
		PUBLIC SEWER		
8" PVC SEWER	176 LF			
8" DIP (CLASS 52) SEWER	228 LF			
STANDARD MANHOLES	2 EA			
SHALLOW MANHOLE	1 EA			
TYPE 'B' DROP MANHOLE	1 EA			
8" PVC CAP	1 EA			

OWNER/DEVELOPER

C/O MICHAEL LEVITAS 8040 WASHINGTON BLVD. JESSUP, MD 20794

(410) 799-7223 TPCRACING@GMAIL.COM

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PLANNING & ZONING **VOGEL ENGINEERING** HOWARD COUNTY, MARYLAND

PART III - SEWER

FORCE MAINS SHALL BE D.I.P. ONLY.

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.

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.

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

TIMMONS GROUP



HEREBY CERTIFY VERE PREPARED (HAT I AM A DULY INGINEER UNDER JF MARYLAND, LIC XYIRATION DATE:			
DES:	GAH		
DRN:	GAH		
CHK:	RHV		
DATE:	SEPTEMBER 2021	NO.	

FINAL WATER AND SEWER PLAN

600' SCALE MAP NO. ____43

REVISION

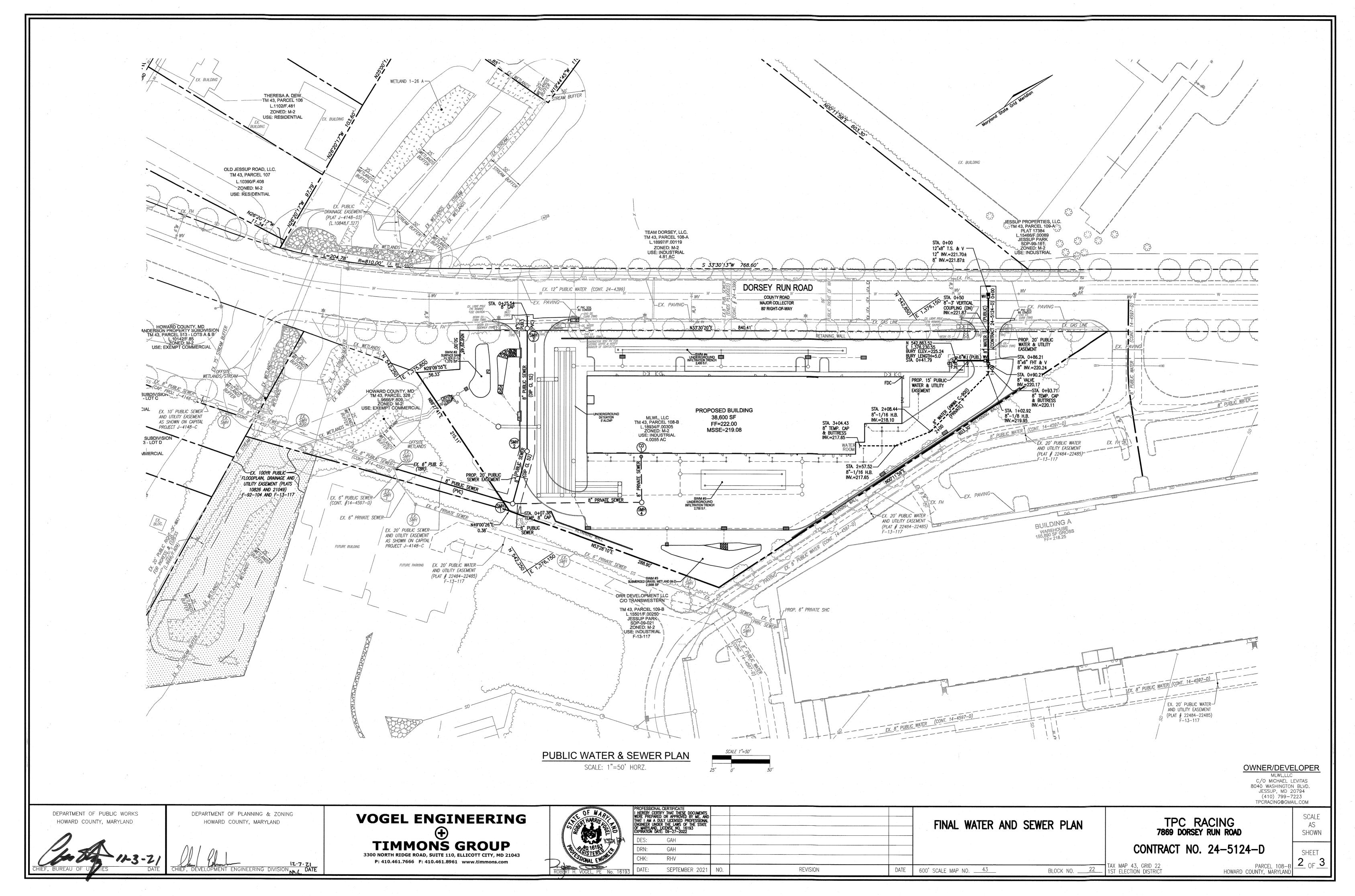
TPC RACING 7869 DORSEY RUN ROAD CONTRACT NO. 24-5124-D

BLOCK NO. 22 TAX MAP 43, GRID 22 1ST ELECTION DISTRICT

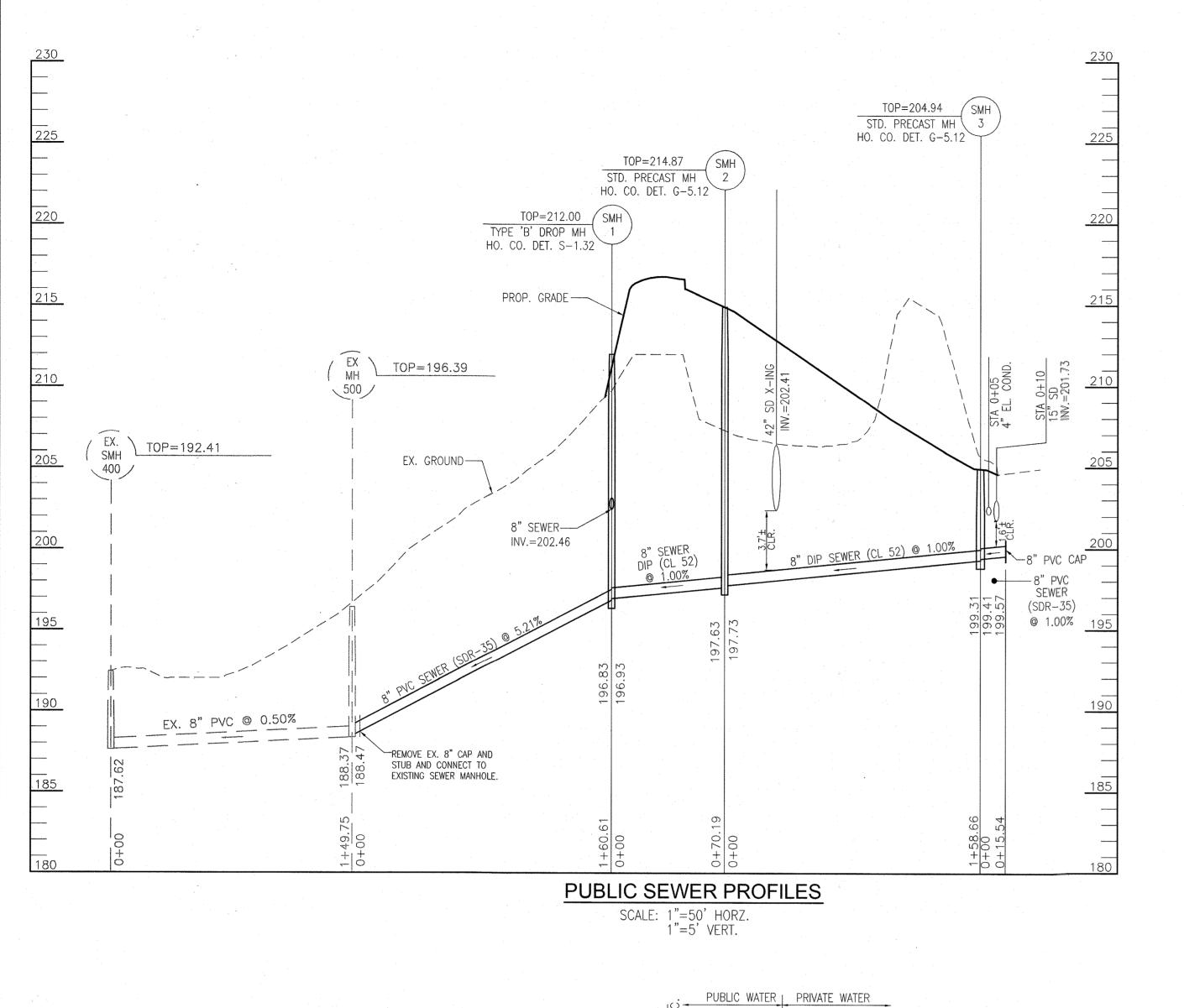
SCALE SHOWN SHEET 1 OF 3 PARCEL 108-B HOWARD COUNTY, MARYLAND

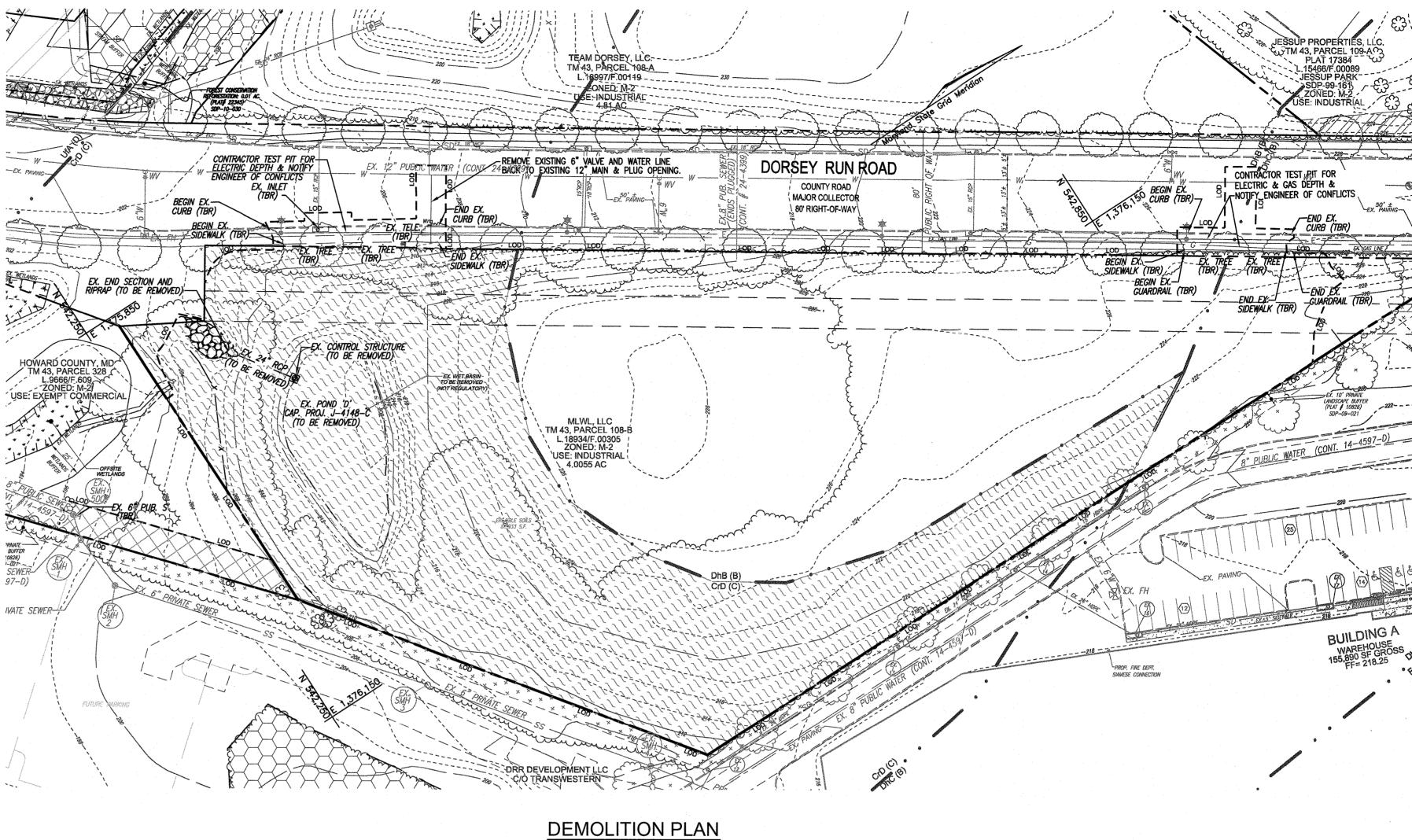
HOWARD COUNTY, MARYLAND

12.7.21 ON DATE P: 410.461.7666 F: 410.461.8961 www.timmons.com

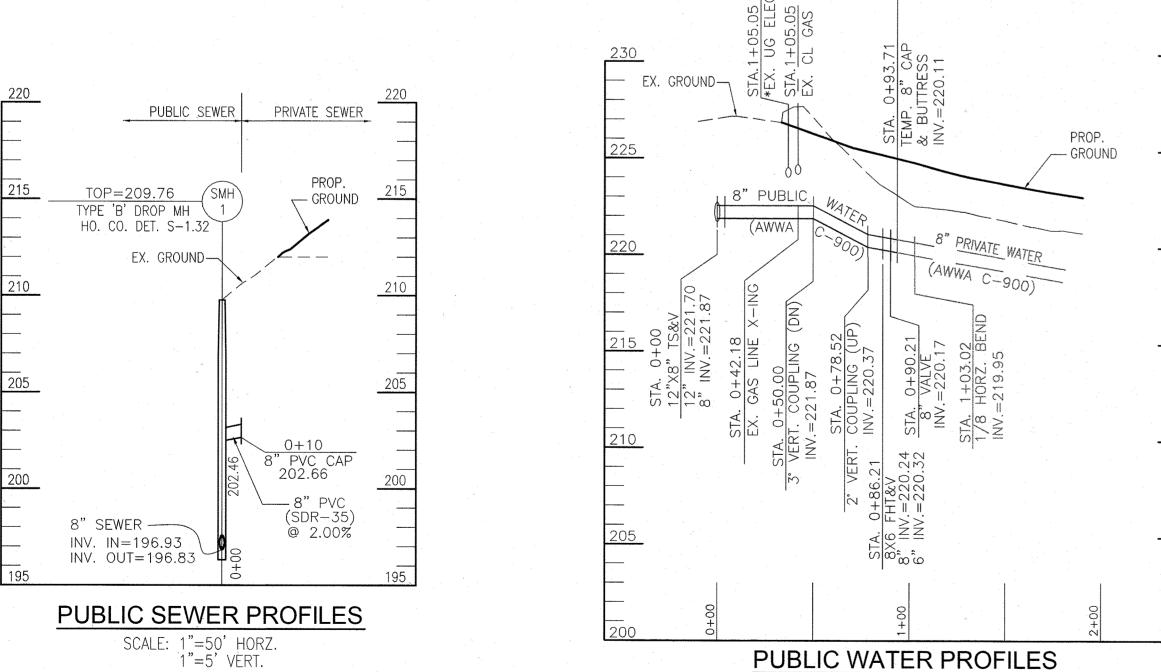


ojecis104-76/ENGRIGWGUDORSEY2(LOWER)/WSIFINALIO2_WS_FINAL.cmg. 10/18/2021 3:00:18 PM





SCALE: 1"=50' HORZ.



PUBLIC SEWER STRUCTURE SCHEDULE								
STR#	TYPE	INV. IN	INV. OUT	TOP ELEV	DETAIL	LOCATION	REMARKS	
MH-1	TYPE 'B' DROP MANHOLE	202.46 / 196.93	196.83	212.00	S-1.32	N 542281.61 E 1376067.98	(1)	
MH-2	48" STANDARD MANHOLE	197.73	197.63	214.87	G 5.12	N 542334.56 E 1376021.91	(1)	
MH-3	48" SHALLOW MANHOLE	199.41	199.31	204.94	G 5.12	N 542422.19 E 1375889.64	(1)	
(1) Coordinate and Elevation for Proposed Structure = Centerline of Structure								

BLOCK NO. 22 TAX MAP 43, GRID 22 1ST ELECTION DISTRICT

PUBLIC WATER MAIN LOCATION CHART								
	PROP. WATER MAIN 'A'							
WL STA.	APPURTENANCE	NORTHING	EASTING					
WL STA. 0+00	12"x8" TAPPING SLEEVE AND VALVE	542,945.96	1,376,181.73					
WL STA. 0+50.00	3° VERTICAL COUPLING (DN)	542,918.36	1,376,223.42					
WL STA. 0+78.52	2° VERTICAL COUPLING (UP)	542,902.61	1,376,247.21					
WL STA. 0+86.21	8"x6" FIRE HYDRANT TEE	542,898.37	1,376,253.62					
WL STA. 0+90.21	8" VALVE	542,896.16	1,376,256.95					
WL STA. 0+93.71	8" TEMPORARY CAP AND BUTTRESS	542,894.23	1,376,259.87					
WL STA. 0+86.21-4'R	6" VALVE	542,895.03	1,376,251.41					
WL STA. 0+86.21-41.79'F	FIRE HYDRANT	542,863.52	1,376,230.55					

OWNER/DEVELOPER

MLWL,LLC

C/O MICHAEL LEVITAS

8040 WASHINGTON BLVD.

JESSUP, MD 20794

(410) 799-7223

TPCRACING@GMAIL.COM

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION M.6 DATE

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

PUBLIC WATER PROFILES

SCALE: 1"=50' HORZ. 1"=5' VERT.

OF MARALINATION OF MARAININATION OF MARAININATIO
ROBERT H. VOGEL, PE No. 161

REBY CERTIF PREPARED AM A DU	CERTIFICATE TY THAT THESE DOCUMENTS OR APPROVED BY ME, AND LICENSED PROFESSIONAL R THE LAWS OF THE STATE LICENSE NO. 16193 :: 09-27-2022							FINAL	WATER
S:	GAH			-			-		
RN:	GAH			-	· · · · · · · · · · · · · · · · · · ·	-			
IK:	RHV			-	-				
TE:	SEPTEMBER 2021	NO.	-	REVISION		-	DATE	600' SCALE MAP I	NO. 43

FINAL	WATER	AND	SEWER PLAN	

TPC RACING 7869 DORSEY RUN ROAD

CONTRACT NO. 24-5124-D

SHEET

SCALE AS

SHOWN

PARCEL 108-B OF 3 OF 3