

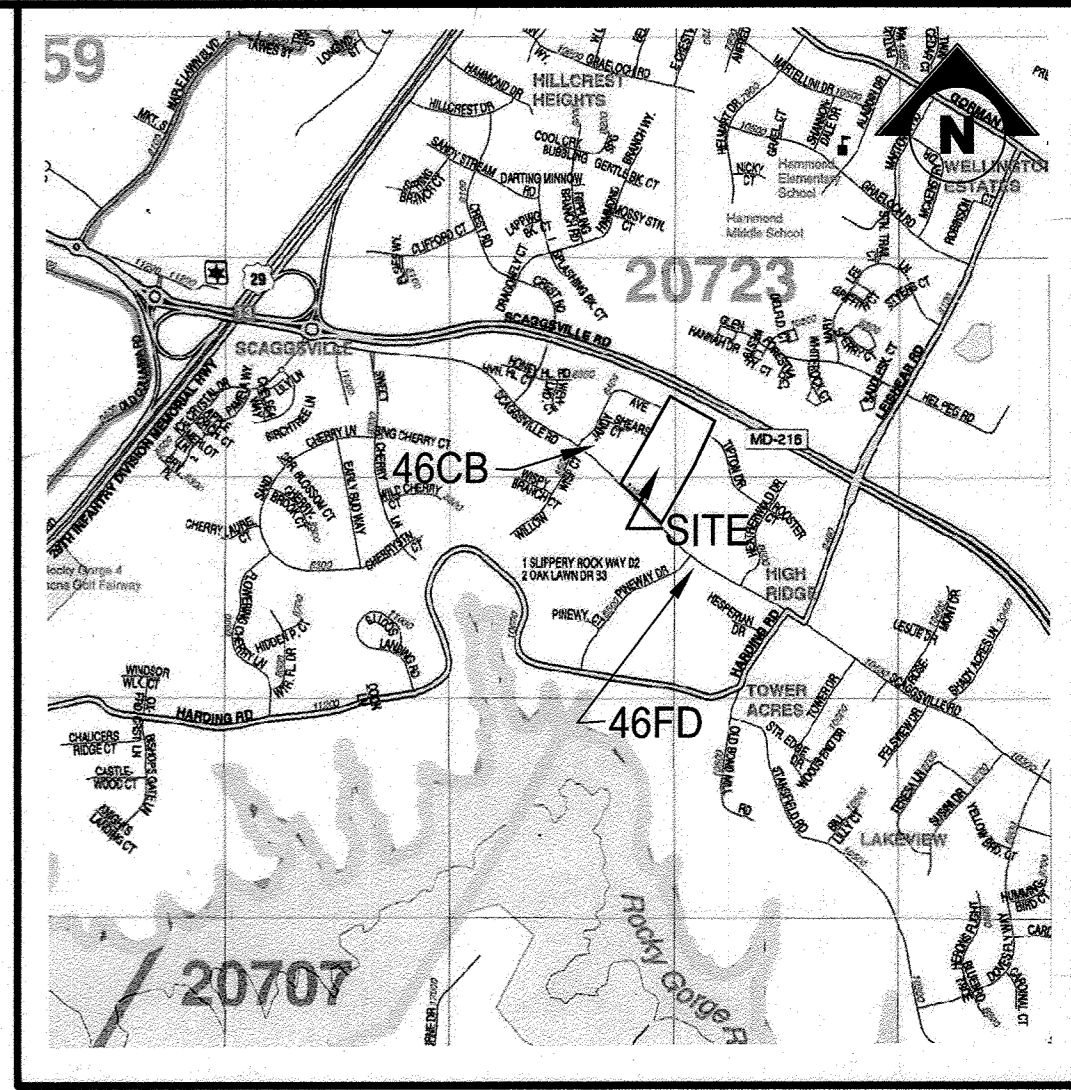
QUANTITIES			
NAME OF UTILITY CONTRACTOR: <i>CRANES</i>			
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: <i>8-1-23</i>			
QUANTITIES ESTIMATED	SIZE	DESCRIPTION	AS-BUILT
			QUANTITIES TYPE MANUFACTURER/SUPPLIER
PUBLIC WATER			
86 LF	6"	WATER MAIN - PVC C900 DR 18	22 LP National Pipe
2,533 LF	8"	WATER MAIN - PVC C900 DR 18	22 LP National Pipe
2	6"	VALVE & ROADWAY BOX	1 EA
12	8"	VALVE & ROADWAY BOX	1 EA
9	8"	1/32 HORIZONTAL BEND	4 EA
2	8"	1/32 VERTICAL BEND	2 EA
2	8"	1/16 VERTICAL BEND	2 EA
2	6"	FIRE HYDRANT	1 EA
5	8"x6"	TEE	5 EA
3	8"x8"	TEE	3 EA
1	8"x12"	TEE	1 EA
841 LF	1.5"	1 1/2" COPPER WATER HOUSE CONNECTION	840 LP
6	EA	METER VAULT 1 1/2" SERVICE, 1" METER SETTING (SINGLE)	6 EA
29	EA	METER VAULT 1 1/2" SERVICE, 1" METER SETTING (TWIN)	29 EA
PUBLIC SEWER			
7 LF	8"	PRIVATE SEWER MAIN CONNECTION TO EX. SEWER MANHOLE #5	7 LF
140 LF	8"	8" D.I.P. 45' MANHOLE	140 LF
		8" D.I.P. 45' MANHOLE	
		8" D.I.P. 45' MANHOLE	
		8" D.I.P. 45' MANHOLE	
		8" D.I.P. 45' MANHOLE	
		8" D.I.P. 45' MANHOLE	
		8" D.I.P. 45' MANHOLE	

PUBLIC WATER PLAN ENCLAVE AT HINES FARM UNITS 1 - 63 CONTRACT 24-5173-D

BENCH MARKS

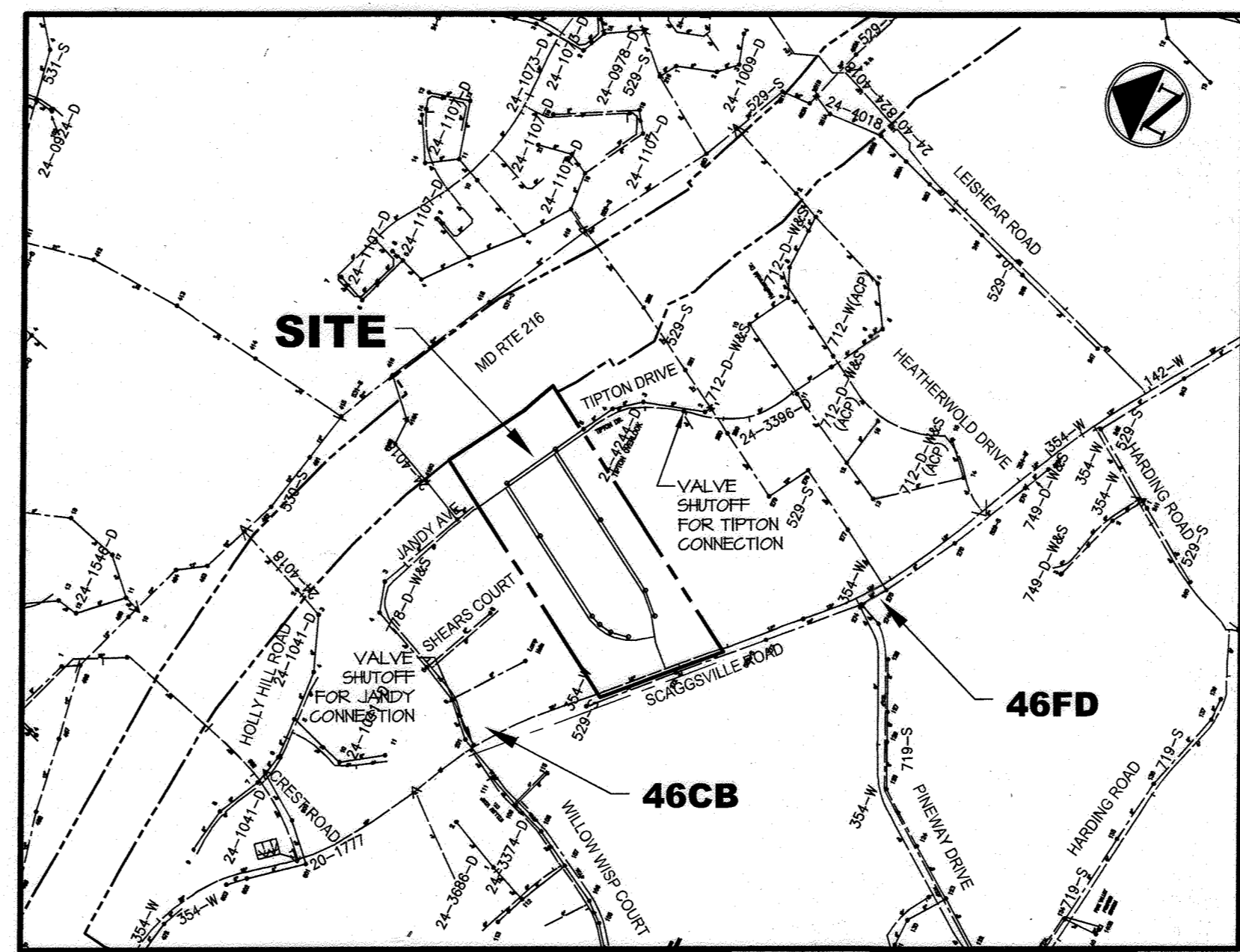
46CB
N 537,123.037 E 1,344,291.422
NAD 83 (Adj. 2011)
NAVD 88

46FD
N 535,892.901 E 1,345,540.058
NAD 83 (Adj. 2011)
NAVD 88

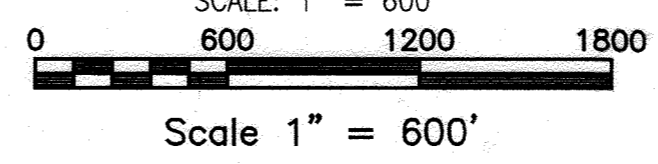


©ADC, THE MAP PEOPLE, BY PERMISSION PIN 21006237 MAP NO. 39 GRD D-3

VICINITY MAP
SCALE: 1" = 2,000'



LOCATION MAP
SCALE: 1" = 600'



WATER ZONE: 550 TEST GRADIENT: 827 TEST PRESSURE: 209.66 PSI	TYPE OF BUILDINGS: FEE SIMPLE SINGLE-FAMILY HOMES & TOWNHOUSES DRAINAGE AREA: HAMMOND BRANCH, LITTLE PATUXENT TREATMENT PLANT: LITTLE PATUXENT WATER RECLAMATION FACILITY NUMBER OF UNITS: 63 NUMBER OF NON-BUILDABLE LOTS: 3 NUMBER OF W.H.C.: 35 (29 - 1-1/2" WHC'S WITH 1" TWIN METERS & 6 SINGLE 1-1/2" WHC WITH 1" METERS)
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GENERAL NOTES
PART I

- 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 CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON JANUARY 2018 BY MORRIS & RITCHE ASSOCIATES, INC.
- 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 NO. 46CB AND NO. 46FD. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. BENCH MARKS PROVIDED ON THE DRAWINGS ARE CONSISTED OF A STAMPED (BRASS OR ALUMINUM) DISK SET ON TOP OF A 3" DEEP COLUMN OF CONCRETE.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 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 THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE 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 DRAWING, 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 PITS. 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 OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
AT&T.....1-800-252-1133
BGE (CONTRACTOR SERVICES).....410-637-8713
BGE (EMERGENCY).....410-688-0123
BUREAU OF UTILITIES.....410-313-4000
COLONIAL PIPELINE CO.....410-795-1390
MISS UTILITY.....1-800-257-7777
STATE HIGHWAY ADMINISTRATION.....410-531-5533
VERIZON.....1-800-743-0033
- 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 CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE 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 PVC C900 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 QUALIFICATIONS TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPES 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. 17 POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. 12 POUND 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.
- PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF 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 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 DEFLECTION 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 DEFLECTION 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 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 CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTAIN 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 (DPEX) BLUE BRUTE DR18 OR EQUAL.
- 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 PLUN ENDS INTO THE PVC 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.

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
- 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 WATER-TIGHT FRAME AND COVER. STANDARD DETAIL G5.52 WHERE WATER-TIGHT 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 THE CELLAR CANNOT BE SERVED

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF VOLUME IV OF THE SPECIFICATIONS AND AS SHOWN ON SDP-21-038

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

Alexandra Bratche /s/ 7/19/22
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 7-6-22
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 7-20-22
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MIRA
MORRIS & RITCHE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

14280 PARK CENTER DRIVE, SUITE A
LAUREL, MARYLAND 20707
(410) 792-8792 or (301) 776-1690

MD PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29203, EXPIRATION DATE: 6/16/2023

[Signature] 6-19-23
DATE: 4/25/2022

DES:	BY:	NO.:	REVISIONS	DATE
MF				
DRN:				
CHK:				

COVER SHEET

BLOCK NO. 3

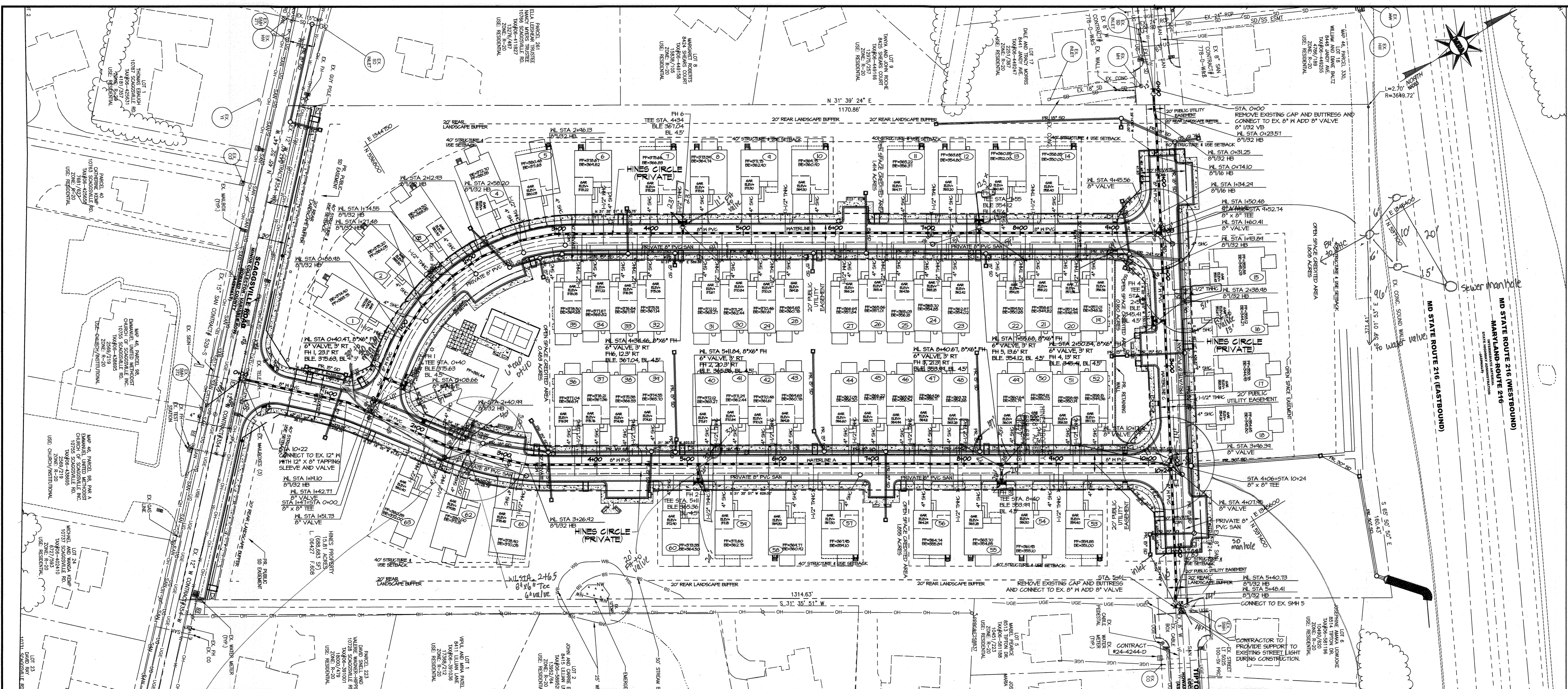
OWNER:
THE ESTATES OF JOHN T.HINES
C/O MONICA HALTMEYER
ADDRESS: 7535 FLAMEWOOD ROAD
CLARKSVILLE, MD 21029
CONTACT: MONICA, HALTMEYER
PHONE: 410-258-3229
EMAIL: MHALTMEYER@VERIZON.NET

APPLICANT / DEVELOPER:
WILLIAMSBURG HOMES
ADDRESS: 5485 HARPERS FARM ROAD
SUITE 200
COLUMBIA, MD 21044
CONTACT: BRUCE HARVEY
PHONE: 410-997-8800 X23

ENCLAVE AT HINES FARM
CONTRACT NO. 24-5173-D

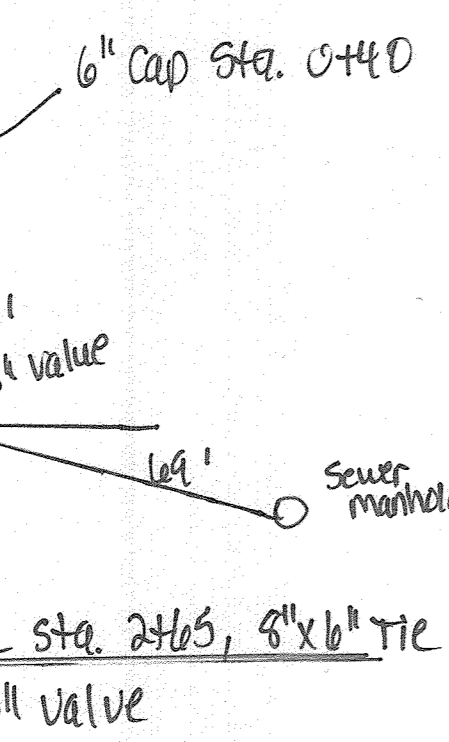
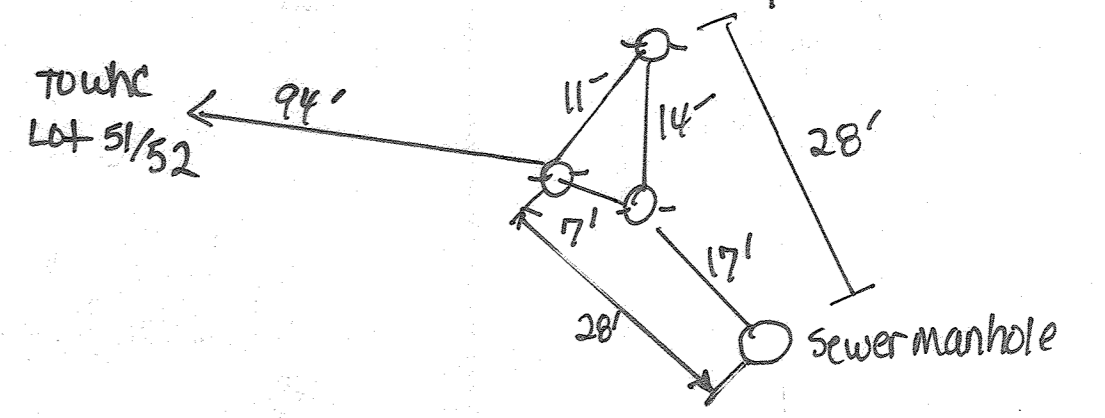
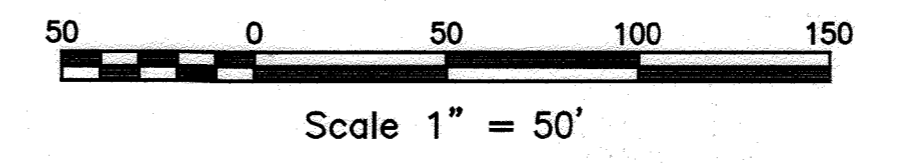
JOB NO.: 1959DX04
SCALE: AS SHOWN
SHEET 1 OF 5

LIBER: 6427 ~ FOLIO: 608
ZONED: R-20 ~ TAX MAP: 46 ~ GRID: 11 ~ PARCEL: 5
6TH ELECTION DISTRICT ~ HOWARD COUNTY, MARYLAND



PUBLIC WATER PLAN

NOTE: ALL PROPOSED SEWER WILL BE PRIVATELY OWNED AND MAINTAINED.



PUBLIC WATER APPURTENANCE TABLE WATERLINE A			
COORD #	NORTHING	EASTING	STA.
8" VALVE	536,648.63	1,344,994.57	1+43
8" VALVE	536,551.86	1,344,894.46	0+03
8" VALVE	537,354.55	1,345,497.45	10+18
8" VALVE	536,653.73	1,345,001.94	1+52
FH	537,192.55	1,345,422.52	8+41
FH	536,812.97	1,345,249.31	5+12

PUBLIC WATER APPURTENANCE TABLE WATERLINE B			
COORD #	NORTHING	EASTING	STA.
8" VALVE	537,475.86	1,345,279.13	0+09
8" VALVE	536,658.05	1,344,992.98	9+46
FH	536,897.57	1,344,993.02	0+40
FH	537,321.30	1,345,168.00	7+56
FH	537,046.65	1,345,000.71	4+34

PUBLIC WATER APPURTENANCE TABLE WATERLINE C			
COORD #	NORTHING	EASTING	STA.
8" VALVE	537,554.12	1,345,150.99	0+05
8" VALVE	537,484.61	1,345,278.19	1+50
8" VALVE	537,479.76	1,345,286.85	1+60
8" VALVE	537,285.09	1,345,631.93	5+57
8" VALVE	537,364.61	1,345,492.84	3+96
8" VALVE	537,358.97	1,345,502.93	4+06
FH	13' RT.		2+51

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 7-6-22
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 7-20-22
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MIRA
MORRIS & RITCHE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

14280 PARK CENTER DRIVE, SUITE A
LAUREL, MARYLAND 20707
(410) 792-8792 or (301) 776-1690

PROFESSIONAL ENGINEER
STATE OF MARYLAND
LICENSE NO. 29203
EXPIRES 6/16/2023

DES:	BY:	NO.	REVISIONS	DATE
MF				
MF				
MM				

DATE: 4/25/2022

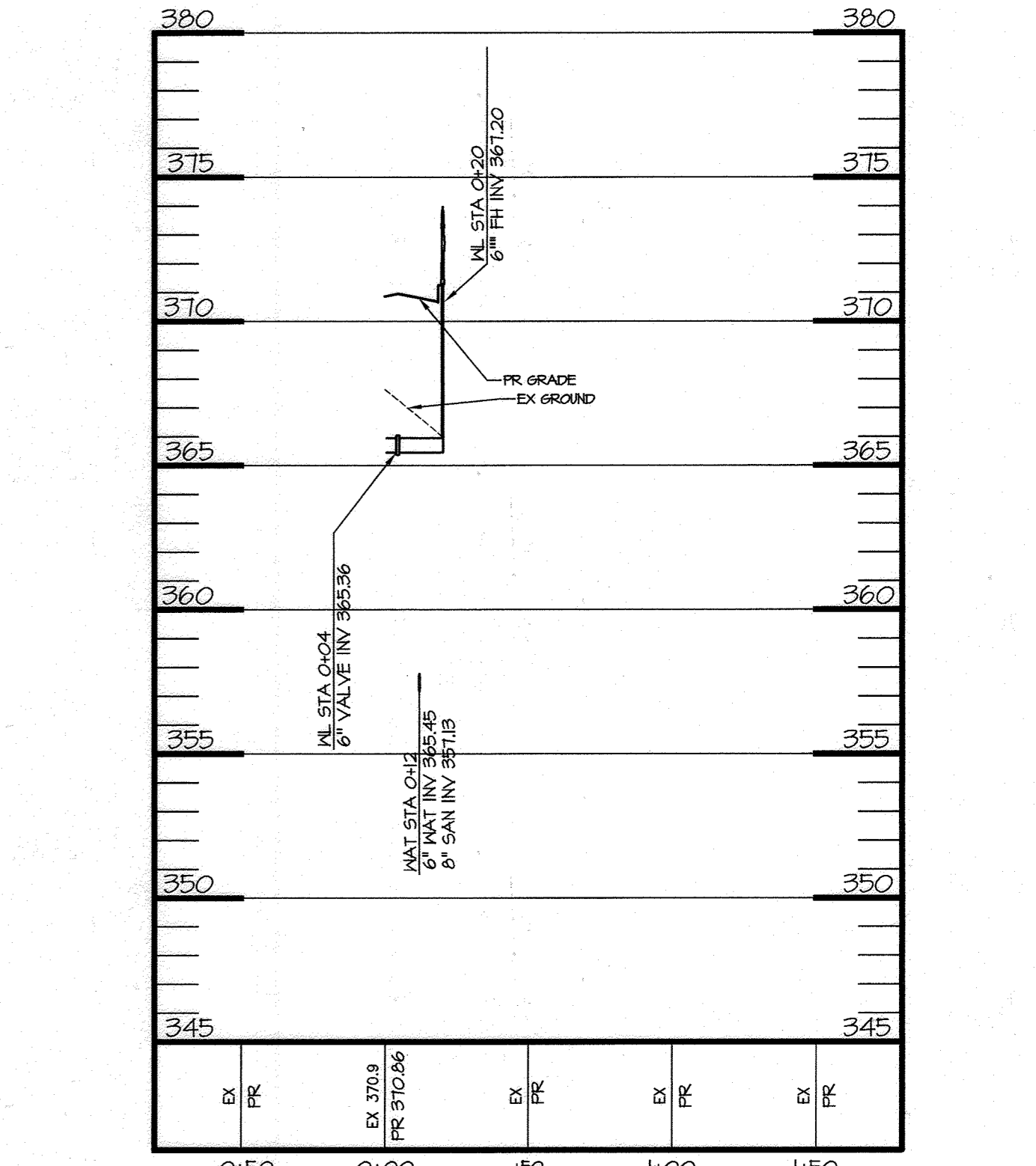
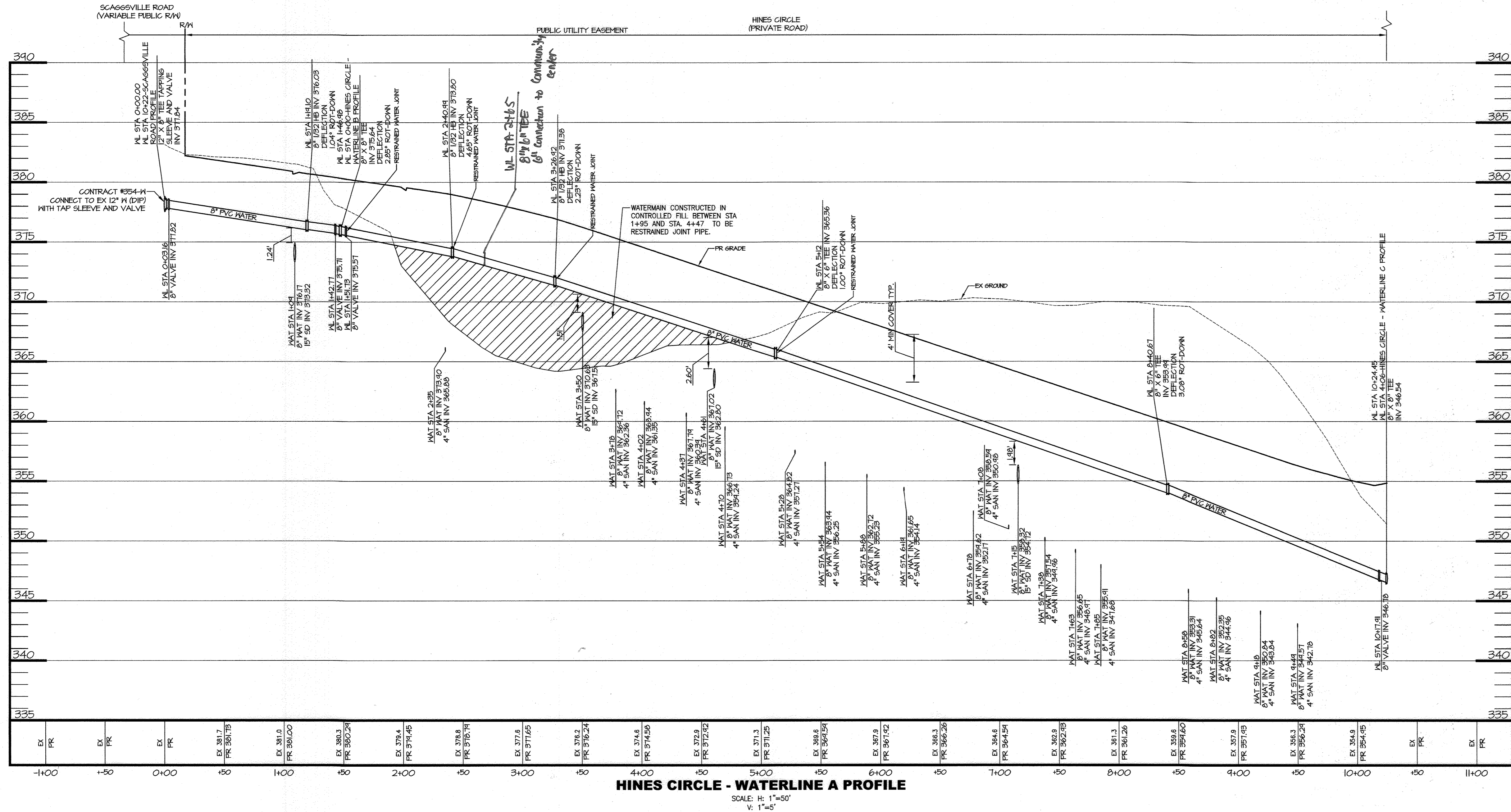
LAYOUT PLAN

BLOCK NO. 3

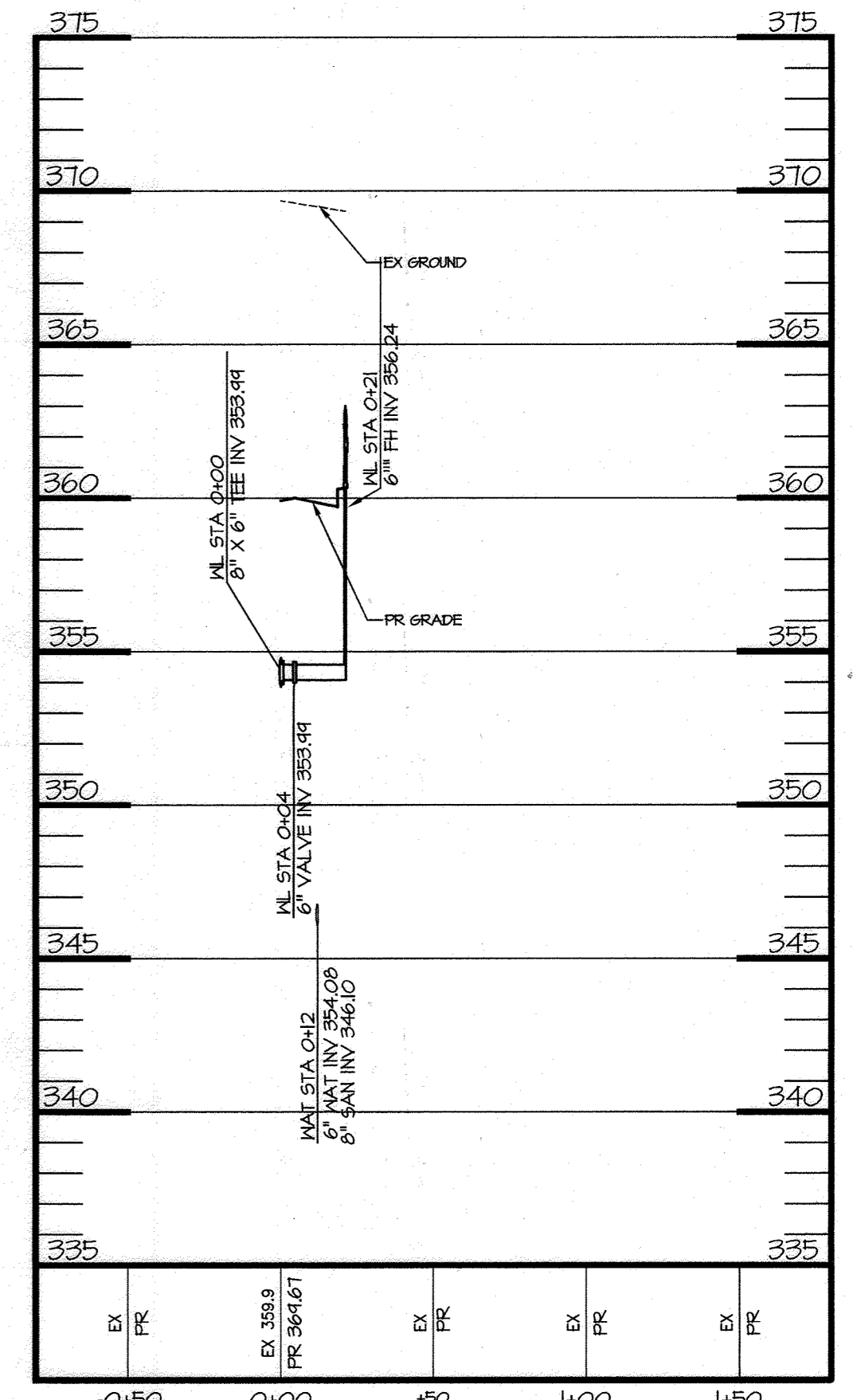
ENCLAVE AT HINES FARM
CONTRACT NO. 24-5173-D

LIBR: 6427 ~ FOLIO: 608
ZONED: R-20 ~ TAX MAP: 46 ~ GRID: 11 ~ PARCEL: 5
6TH ELECTION DISTRICT ~ HOWARD COUNTY, MARYLAND

JOB NO.: 19590X04
SCALE:
SHEET 2 OF 5

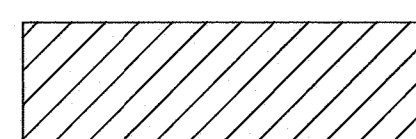


HINES CIRCLE WATERLINE A FIREHYDRANT #2 PROFILE
 SCALE: H: 1"=50'
 V: 1"=5'




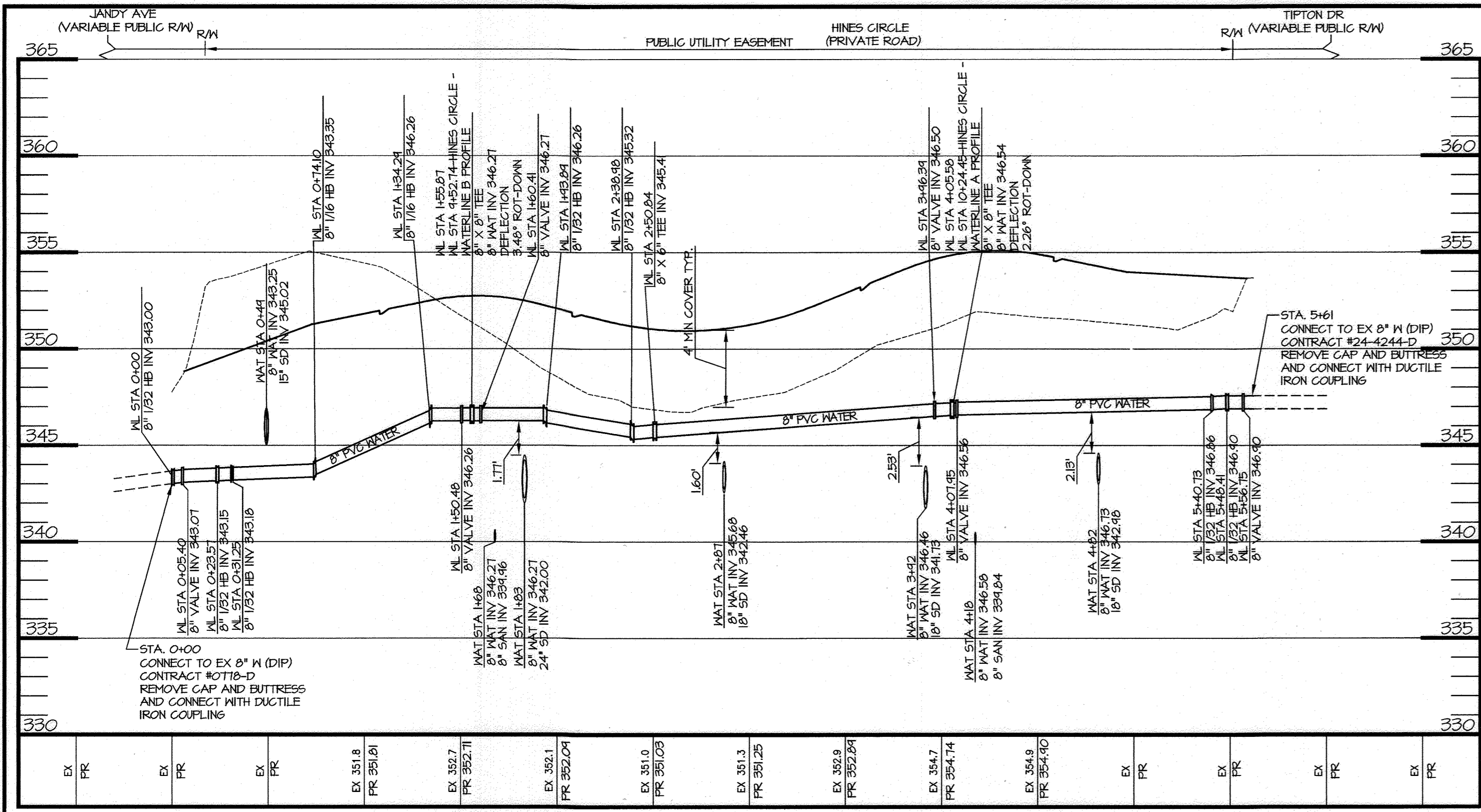
HINES CIRCLE WATERLINE A FIREHYDRANT #3 PROFILE
 SCALE: H: 1"=50'
 V: 1"=5'

PUBLIC WATER FITTING TABLE HINES CIRCLE - WATERLINE A			
STA	FITTING	NORTHING	EASTING
5+12	8" x 6" TEE	536,923.49	1,345,232.30
1+47	8" x 8" TEE	536,651.02	1,344,998.03
3+27	8" 1/32 HB	536,765.99	1,345,135.41
2+41	8" 1/32 HB	536,704.52	1,345,075.35
1+19	8" 1/32 HB	536,635.16	1,344,975.11
8+41	8" x 6" TEE	537,203.58	1,345,404.59
0+00	12" x 8" TEE	536,549.59	1,344,892.26
10+24	8" x 8" TEE	537,360.13	1,345,500.85
2+10	8" 1/2 TEE	-	-

 CONTROLLED AND COMPACTED FILL PER ASTM D-1557 TO BE CERTIFIED BY AN APPROVED ON-SITE GEOTECHNICAL ENGINEER

- COMPACTED SPECIFICATIONS FOR UTILITIES IN FILL**
- A. PRIOR TO PLACEMENT OF COMPACTED FILL, ANY SOFT OR OTHERWISE UNSUITABLE SOILS ENCOUNTERED AT THE EXISTING RAVINE BOTTOM OR SLOPE, SHALL BE UNDERCUT AND REMOVED FROM THE CONSTRUCTION AREA.
 - B. ACCEPTABLE COMPACTED FILL SHALL BE PLACED IN SIX INCH THICK LOOSE LIFTS AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557.
 - C. THE COMPACTED FILL SHALL BE BENCHED INTO THE EXISTING VIRGIN SLOPES WITH EACH LIFT PLACED TO A SMOOTH TRANSITION FROM VIRGIN TO FILL SOILS.

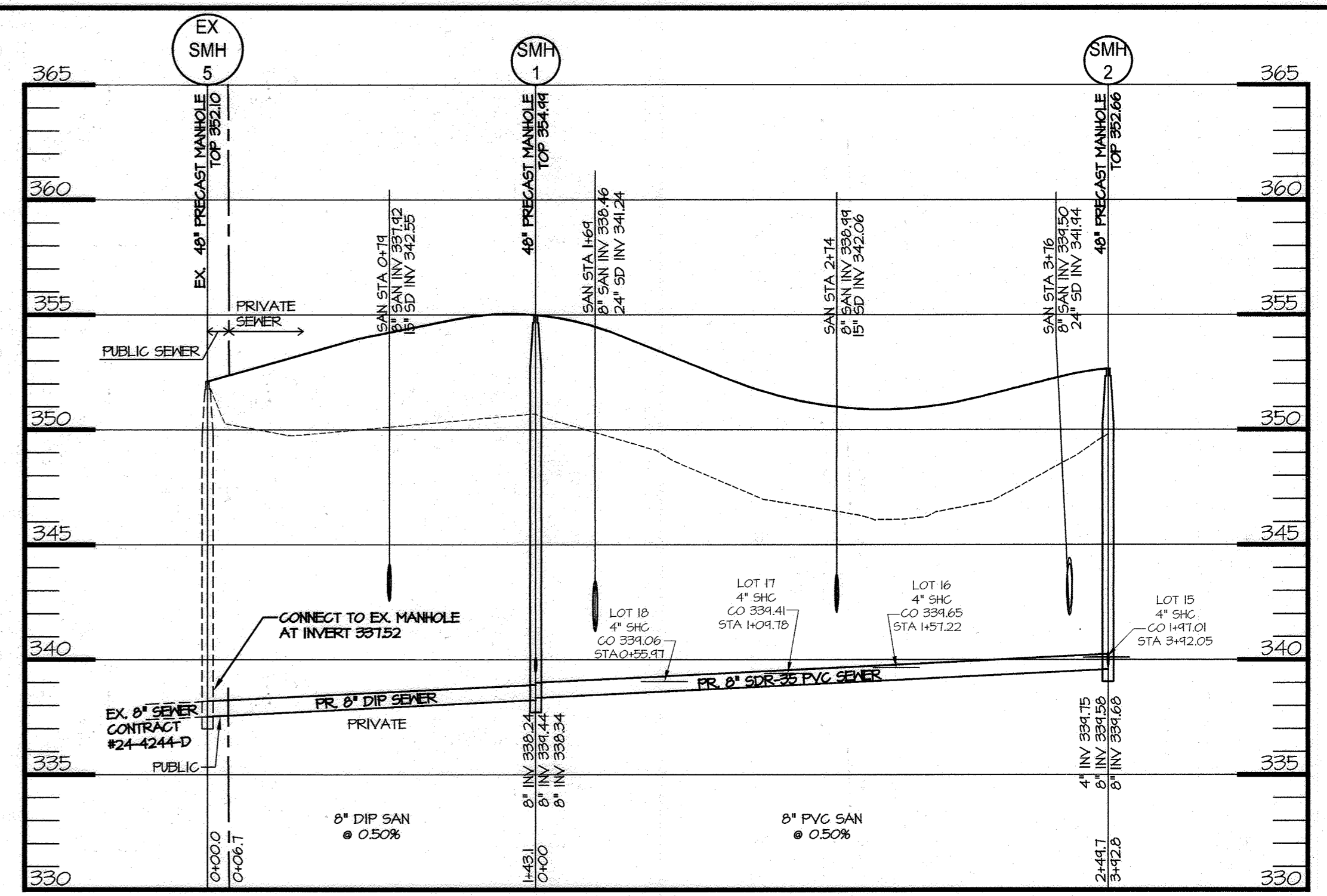
<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 7.6.22 CHIEF, BUREAU OF UTILITIES</p>	<p>DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 7.20.22 CHIEF, DEVELOPMENT ENGINEERING DIVISION</p>	<p>MRA MORRIS & RITCHE ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS</p> <p>14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-8792 or (301) 776-1690</p>	<p>6-21-22</p> <p></p> <p>MD PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29203, EXPIRATION DATE: 6/16/2023</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DES: MF</td> <td>BY: NO.</td> <td>REVISIONS</td> <td>DATE</td> </tr> <tr> <td>DRN: MF</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK: MM</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE: 4/25/2022</td> <td></td> <td></td> <td></td> </tr> </table>	DES: MF	BY: NO.	REVISIONS	DATE	DRN: MF				CHK: MM				DATE: 4/25/2022				<p>WATER PROFILES</p> <p>BLOCK NO. 3</p>	<p>ENCLAVE AT HINES FARM CONTRACT NO. 24-5173-D</p> <p>LIBER: 6427 ~ FOLIO: 608 ZONED: R-20 ~ TAX MAP: 46 ~ PARCEL: 5 6TH ELECTION DISTRICT ~ HOWARD COUNTY, MARYLAND</p>	<p>JOB NO.: 19590X04</p> <p>SCALE:</p> <p>SHEET 3 OF 5</p>
DES: MF	BY: NO.	REVISIONS	DATE																				
DRN: MF																							
CHK: MM																							
DATE: 4/25/2022																							



HINES CIRCLE - WATERLINE C PROFILE
SCALE: H: 1"=50'

**PUBLIC WATER FITTING TABLE
HINES CIRCLE - WATERLINE C**

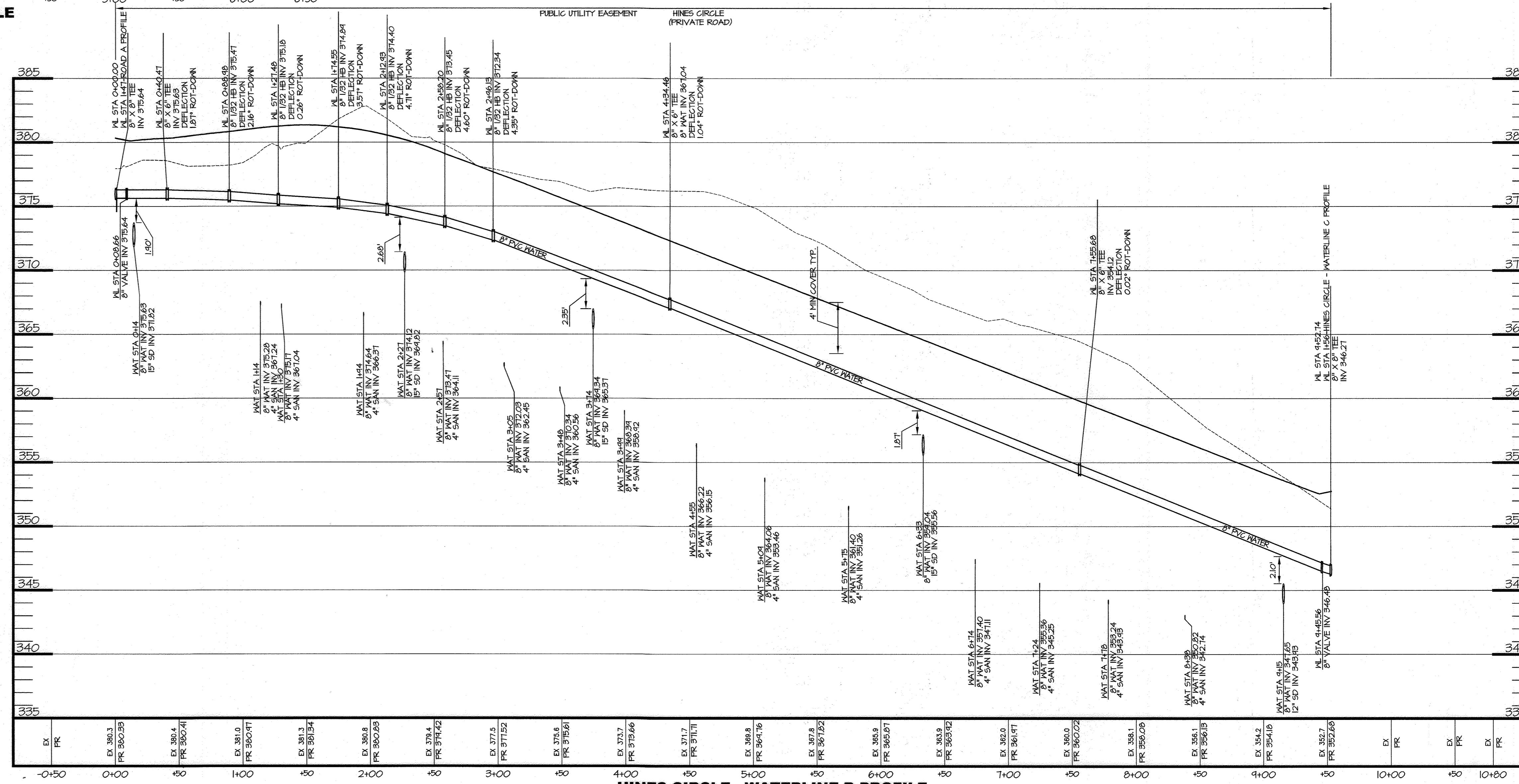
STA	FITTING	NORTHING	EASTING
0+31	8" 1/32 HB	537,542.86	1,345,174.16
0+24	8" 1/32 HB	537,545.24	1,345,166.85
5+41	8" 1/32 HB	537,294.15	1,345,618.81
5+48	8" 1/32 HB	537,289.16	1,345,624.66
1+34	8" 1/16 HB	537,492.52	1,345,264.06
1+94	8" 1/32 HB	537,463.43	1,345,316.08
2+39	8" 1/32 HB	537,441.42	1,345,355.44
0+74	8" 1/16 HB	537,521.93	1,345,211.55
2+51	8" x 6" TEE	537,435.64	1,345,365.79
0+00	8" 1/32 HB	537,556.53	1,345,146.68
1+58	8" x 8" TEE	537,481.98	1,345,282.89
4+08	8" x 8" TEE	537,360.13	1,345,500.85



EX SMH 5 TO SMH 2 PROFILE
SCALE: H: 1"=50'
V: 1"=5'

**PUBLIC WATER FITTING TABLE
HINES CIRCLE - WATERLINE B**

STA	FITTING	NORTHING	EASTING
7+56	8" x 6" TEE	537,314.13	1,345,179.64
2+96	8" 1/32 HB	536,922.70	1,344,938.86
2+58	8" 1/32 HB	536,887.22	1,344,925.41
2+13	8" 1/32 HB	536,842.54	1,344,918.10
1+75	8" 1/32 HB	536,804.18	1,344,919.41
1+27	8" 1/32 HB	536,758.34	1,344,930.17
0+89	8" 1/32 HB	536,723.28	1,344,946.11
0+00	8" x 8" TEE	536,651.02	1,344,998.03
0+40	8" x 6" TEE	536,683.89	1,344,974.42
9+53	8" x 8" TEE	537,481.98	1,345,282.89
4+34	8" x 6" TEE	537,040.53	1,345,011.34



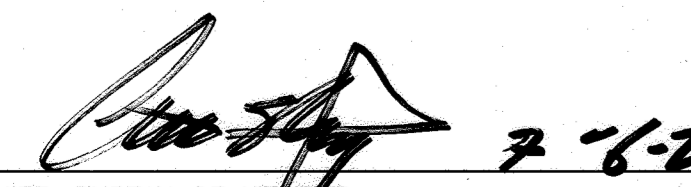
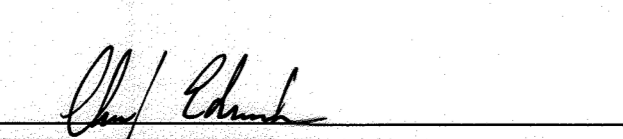


HINES CIRCLE - WATERLINE B PROFILE
SCALE: H: 1"=50'
V: 1"=5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 7-6-22 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND 7-20-22 CHIEF, DEVELOPMENT ENGINEERING DIVISION	 MORRIS & RITCHE ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS 14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-8792 or (301) 776-1690		DES: MF DRN: MF CHK: MM DATE: 4/25/2022	BY NO. _____ REVISIONS _____ DATE _____	WATER PROFILES BLOCK NO. 3	ENCLAVE AT HINES FARM CONTRACT NO. 24-5173-D LIBER: 6427 ~ FOLIO: 608 ZONED: R-20 ~ TAX MAP: 46 ~ GRID: 11 ~ PARCEL: 5 6TH ELECTION DISTRICT ~ HOWARD COUNTY, MARYLAND	JOB NO.: 19590X04 SCALE: SHEET 4 OF 5
				DATE: 4/25/2022				SHEET 4 OF 5

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 1	8728 Hines Circle	SM#10 44'	PH 1 61'
LOT 2	8724 Hines Circle	SM# 9 50'	SM#10 54'
LOT 3	8720 Hines Circle	SM# 9 50'	SM#10 54'
LOT 4	8716 Hines Circle	SM# 8 32'	M 9 43'
LOT 5	8712 Hines Circle	SM# 8 32'	M 9 43'
LOT 6	8708 Hines Circle	M 9 51'	SM# 7 40'
LOT 7	8704 Hines Circle	M 9 3 41'	PH 6 12'
LOT 8	8700 Hines Circle	M 9 3 41'	PH 6 12'
LOT 9	8696 Hines Circle	THC 28/29 47'	PH 6 108'
LOT 10	8692 Hines Circle	THC 28/29 47'	PH 6 108'
LOT 11	8688 Hines Circle	M 4 9 76'	SM# 6 30'
LOT 12	8684 Hines Circle	M 4 9 76'	SM# 6 30'
LOT 13	8680 Hines Circle	PH 5 58'	THC 21/22 49'
LOT 14	8676 Hines Circle	PH 5 58'	THC 21/22 49'
LOT 15	8672 Hines Circle	M 4 3 34'	M 4 1 66'
LOT 16	8668 Hines Circle	M 4 3 34'	M 4 1 66'
LOT 17	8664 Hines Circle	M 4 3 34'	M 4 1 66'
LOT 18	8660 Hines Circle	M 4 3 34'	M 4 1 66'
LOT 19	8656 Hines Circle	M 4 3 34'	I 11 3 49'
LOT 20	8652 Hines Circle	M 4 3 34'	I 11 3 49'
LOT 21	8648 Hines Circle	M 4 3 34'	PH 5 65'
LOT 22	8644 Hines Circle	M 4 3 34'	PH 5 65'
LOT 23	8640 Hines Circle	SM# 6 19'	M 4 3 34'
LOT 24	8636 Hines Circle	SM# 6 19'	M 4 3 34'
LOT 25	8632 Hines Circle	M 4 9 21'	SM# 6 53'
LOT 26	8628 Hines Circle	M 4 9 21'	SM# 6 53'
LOT 27	8624 Hines Circle	M 4 9 21'	M 4 9 31'
LOT 28	8620 Hines Circle	M 4 9 21'	THC 30/31 56'
LOT 29	8616 Hines Circle	M 4 9 21'	THC 30/31 56'
LOT 30	8612 Hines Circle	PH 6 58'	M 4 9 31'
LOT 31	8608 Hines Circle	PH 6 58'	M 4 9 31'
LOT 32	8604 Hines Circle	M 4 9 31'	M 4 9 31'
LOT 33	8600 Hines Circle	M 4 9 31'	M 4 9 31'
LOT 34	8596 Hines Circle	SM# 7 23'	M 4 9 20'
LOT 35	8592 Hines Circle	SM# 7 23'	M 4 9 20'
LOT 36	8588 Hines Circle	M 4 9 31'	THC LOT 38/39 57'
LOT 37	8584 Hines Circle	M 4 9 31'	THC LOT 38/39 57'
LOT 38	8580 Hines Circle	M 4 9 31'	M 4 9 19'
LOT 39	8576 Hines Circle	M 4 9 31'	M 4 9 19'
LOT 40	8572 Hines Circle	PH 2 42'	M 4 9 19'
LOT 41	8568 Hines Circle	PH 2 42'	M 4 9 19'
LOT 42	8564 Hines Circle	M 4 9 31'	THC LOT 37/38 60'
LOT 43	8560 Hines Circle	M 4 9 31'	THC LOT 37/38 60'
LOT 44	8556 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 45	8552 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 46	8548 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 47	8544 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 48	8540 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 49	8536 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 50	8532 Hines Circle	M 4 9 31'	SM# 3 32'
LOT 51	8528 Hines Circle	THC LOT 53/54 48'	THC LOT 51/52 56'
LOT 52	8524 Hines Circle	THC LOT 53/54 48'	THC LOT 51/52 56'
LOT 53	8520 Hines Circle	THC LOT 53/54 48'	THC LOT 49/50 56'
LOT 54	8516 Hines Circle	THC LOT 53/54 48'	PH 3 62'
LOT 55	8512 Hines Circle	THC LOT 53/54 48'	PH 3 62'
LOT 56	8508 Hines Circle	PH 3 43'	M 11 45'
LOT 57	8504 Hines Circle	PH 3 43'	M 11 45'
LOT 58	8500 Hines Circle	M 15 41'	SM# 3 52'
LOT 59	8496 Hines Circle	M 15 41'	SM# 3 52'
LOT 60	8492 Hines Circle	PH 2 13'	M 17 64'
LOT 61	8488 Hines Circle	PH 2 13'	M 17 64'
LOT 62	8484 Hines Circle	SM# 5 25'	M 26 60'
LOT 63	8480 Hines Circle	SM# 5 25'	M 26 60'
CLUBHOUSE	8476 Hines Circle		LOT 62 5HC 26'

OWNER:
THE ESTATES OF JOHN T. HINES
C/O MONICA HALTMEYER
ADDRESS: 7535 FLAMEWOOD ROAD
CLARKSVILLE, MD 21029
CONTACT: MONICA HALTMEYER
PHONE: 410-258-3229
EMAIL: MHALTMEYER@VERIZON.NET

APPLICANT / DEVELOPER:
WILLIAMSBURG HOMES
ADDRESS: 5485 HARPERS FARM ROAD
SUITE 200
COLUMBIA, MD 21044
CONTACT: BRUCE HARVEY
PHONE: 410-997-8800 X23

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  7-6-22 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  7-20-22 CHIEF, DEVELOPMENT ENGINEERING DIVISION	 MORRIS & RITCHE ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS 14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-8792 or (301) 776-1690	 MD PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 29203, EXPIRATION DATE: 6/16/2023	DES: MF	BY NO.	REVISIONS	DATE	FINAL WATER & SEWER PLAN AS-BUILT LOCATION TABLES BLOCK NO. 3	ENCLAVE AT HINES FARM CONTRACT NO. 24-5173-D LIBER: 6427 ~ FOLIO: 608 ZONED: R-20 ~ TAX MAP: 46 ~ GRID: 11 ~ PARCEL: 5 6TH ELECTION DISTRICT ~ HOWARD COUNTY, MARYLAND	JOB NO.: 19590X04
				DRN: MF	CHK: MM	DATE: 4/25/2022	SCALE: AS SHOWN			