

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 IN OCTOBER, 2019 BY BENCHMARK ENGINEERING, 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. 46FB AND NO. 47AA.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 38D5 AND 38D6.
 - 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 TO 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).....410-685-0123
 BUREAU OF UTILITIES.....410-313-4900
 COLONIAL PIPELINE CO.....410-795-1390
 MISS UTILITY.....1-800-257-7777
 STATE HIGHWAY ADMINISTRATION.....410-531-5533
 VERIZON.....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 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 DOW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

PART II WATER

- ALL WATER MAINS TO BE PVC C900 DR18 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 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 THE 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 PVC C900 WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC C900 WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE ANNA 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 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 PVC PIPE.
- ALL CHANGES IN HORIZONTAL AND 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 ANNA C900. SHALL HAVE A MINIMUM LAY LENGTH OF 8-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTANTIEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- 5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF ANNA C900 AND SHALL BE MULTI FITTINGS (PEX) 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 ANNA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH OR 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 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.

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 PVC 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 05.52. 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 SERVED.

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

Wendy Butcher
 HOWARD SOIL CONSERVATION DISTRICT
 09/28/22
 DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-22-030.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

 CHIEF, BUREAU OF UTILITIES
 9-28-22
 DATE

OWNER:
 ESC WELLINGTON, L.C.
 5074 DORSEY HALL DRIVE, SUITE 205
 ELLICOTT CITY, MARYLAND 21042
 410-720-3021

DEVELOPER:
 ESC WELLINGTON, L.C.
 5074 DORSEY HALL DRIVE, SUITE 205
 ELLICOTT CITY, MARYLAND 21042
 410-720-3021

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. 23390, Expiration Date: 6-30-2023.

BENCHMARK
 ENGINEERS & LAND SURVEYORS & PLANNERS
 ENGINEERING, INC.
 3300 NORTH RIDGE ROAD SUITE 140 & ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644
 WWW.BE-CIVILENGINEERING.COM

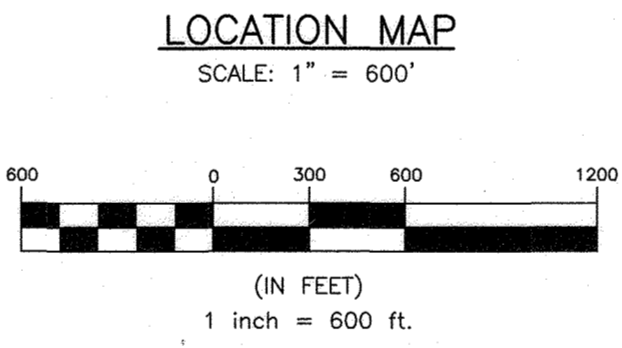
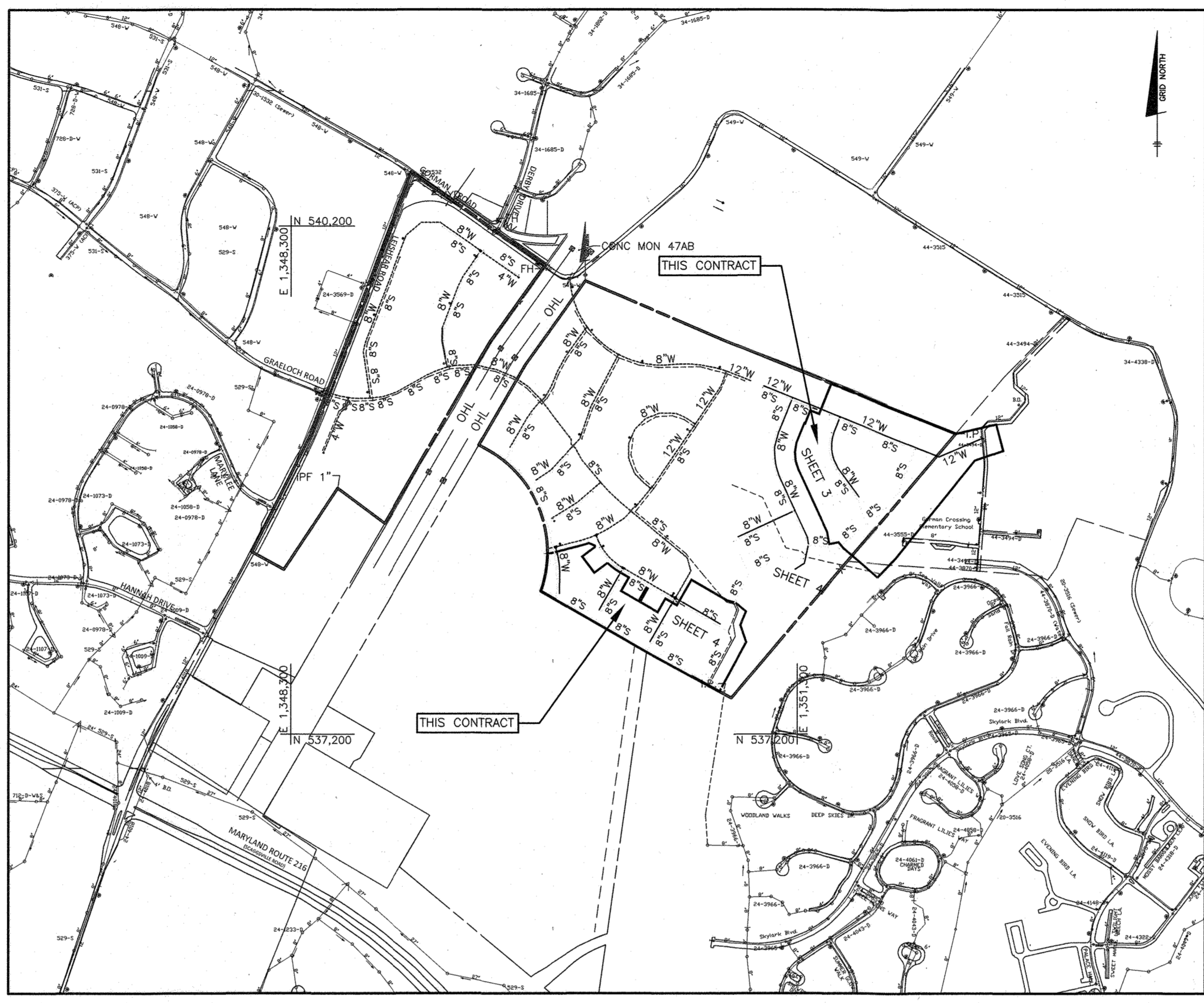
Professional Engineer Seal for *Clayton A. Miller*, License No. 23390, dated 9/21/22.

WELLINGTON FARMS

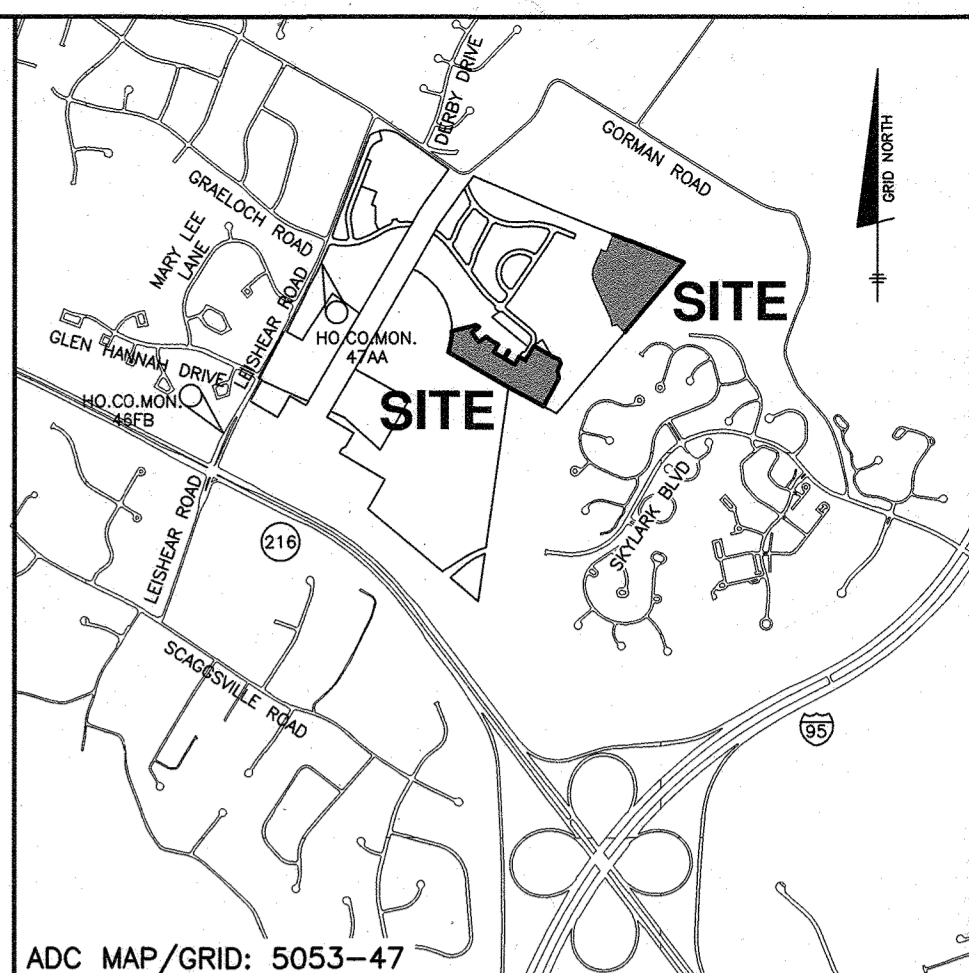
PHASE 2 SECTION 2

PUBLIC WATER AND PUBLIC SEWER PLANS

CONTRACT NO. 24-5140-D



TYPE OF BUILDING:	RESIDENTIAL - SFD
NUMBER OF UNITS:	95
NUMBER OF SHC'S:	95
NUMBER OF TWHC'S:	25
NUMBER OF WHC'S (SINGLE):	45
DRAINAGE AREA:	HAMMOND BRANCH
TREATMENT PLANT:	LITTLE PATUXENT WRP
WATER ZONE:	550 SOUTH
TEST GRADIENT:	804
TEST PRESSURE:	192



VICINITY MAP
 SCALE: 1" = 2000'

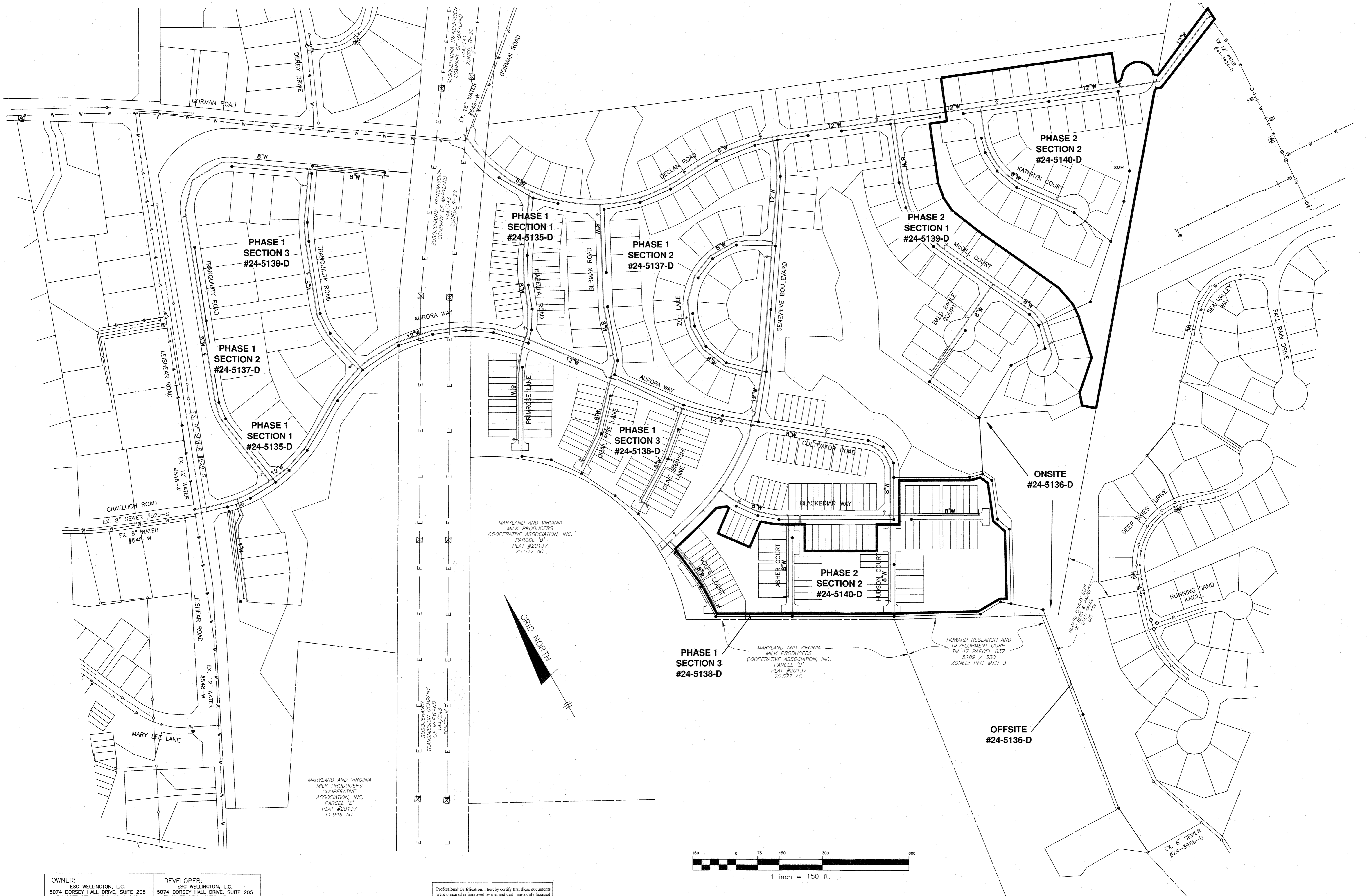
LEGEND

	EXIST. OVERHEAD ELECTRIC
	EXIST. OVERHEAD ELECTRIC TRANSMISSION LINES
	EXIST. OFFSITE WATER MAIN
	EXIST. OFFSITE SEWER MAIN
	EXIST. ONSITE WATER MAIN
	EXIST. ONSITE SEWER MAIN
	EXIST. ONSITE SEWER MANHOLE
	PROP. STORM DRAIN
	PROP. SEWER MAIN
	PROP. SEWER MANHOLE
	PROP. TERMINAL MANHOLE
	PROP. WATER MAIN
	PROP. FIRE HYDRANT
	PROP. VALVE
	PROP. CAP & BUTTRESS
	PROP. WATER HOUSE CONNECTION

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	PHASING KEY SHEET
3	PUBLIC WATER AND SEWER PLAN
4	PUBLIC WATER AND SEWER PLAN
5	PUBLIC WATER AND SEWER PROFILE
6	PUBLIC WATER AND SEWER PROFILE
7	PUBLIC WATER AND SEWER PROFILE
8	PUBLIC WATER AND SEWER PROFILE
9	PUBLIC WATER AND SEWER PROFILE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES 9-28-22 DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION 10-7-22 DATE	BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 3300 NORTH RIDGE ROAD SUITE 140 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BE-CIVILENGINEERING.COM	DESIGN: LDD DRAFT: LDD CHK: DBT DATE: 9.21.2022 BY: NO.	PUBLIC WATER AND SEWER TITLE SHEET 600 SCALE MAP #	WELLINGTON FARMS PHASE 2 SECTION 2 TAX MAP: 46 - GRID: 6 - PARCEL: 163 ZONED: R-SC-MXD-3 ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND CONTRACT NO. 24-5140-D	SCALE: AS SHOWN SHEET NO. 1 OF 9
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OWNER:
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410-720-3021

DEVELOPER:
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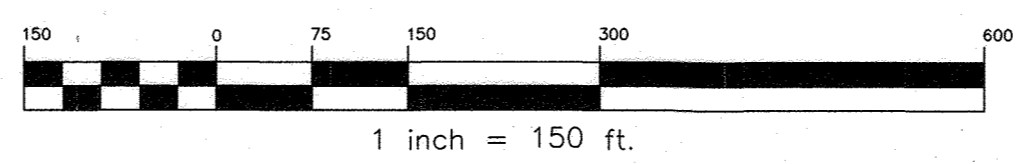
MARYLAND AND VIRGINIA
MILK PRODUCERS
COOPERATIVE
ASSOCIATION, INC.
PARCEL 'E'
PLAT #20137
75.577 AC.

MARYLAND AND VIRGINIA
MILK PRODUCERS
COOPERATIVE ASSOCIATION, INC.
PARCEL 'B'
PLAT #20137
75.577 AC.

MARYLAND AND VIRGINIA
MILK PRODUCERS
COOPERATIVE ASSOCIATION, INC.
PARCEL 'B'
PLAT #20137
75.577 AC.

HOWARD RESEARCH AND
DEVELOPMENT CORP.
TM 47 PARCEL 837
5289 / 330
ZONED: PEC-MXD-3

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. 23266, Expiration Date: 6-30-2023.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, BUREAU OF UTILITIES

9-23-22
DATE

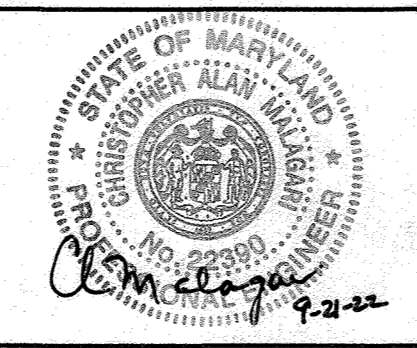
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

10-7-22
DATE

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.
3300 N. RIDGE ROAD • SUITE 140 • ELLCOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-8644
WWW.BEI-ONLINEENGINEERING.COM

[Signature]
9-21-22



DESIGN:	DBT/LDD				
DRAFT:	DBT/LDD				
CHK:	DBT				
DATE:	9.21.2022	BY:	NO.	REVISIONS:	DATE
					4/4/2024

PHASING KEY SHEET

600 SCALE MAP: BLOCK:

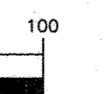
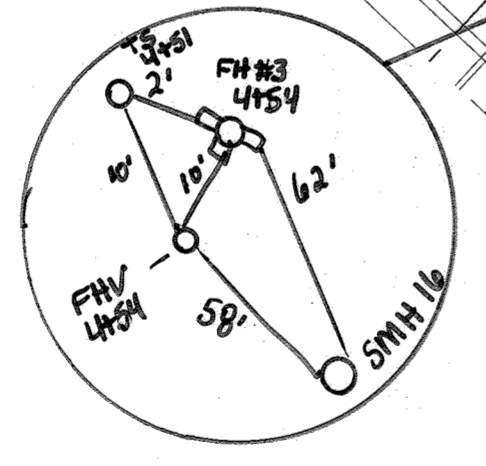
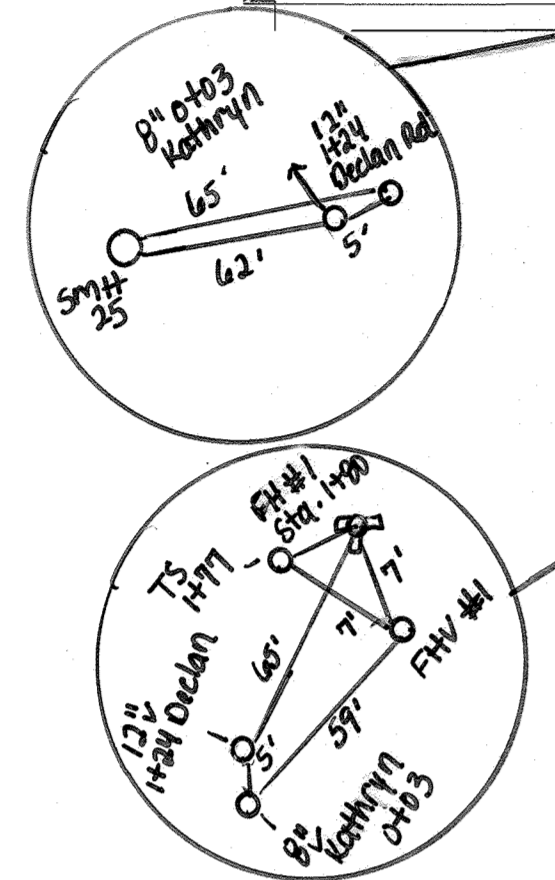
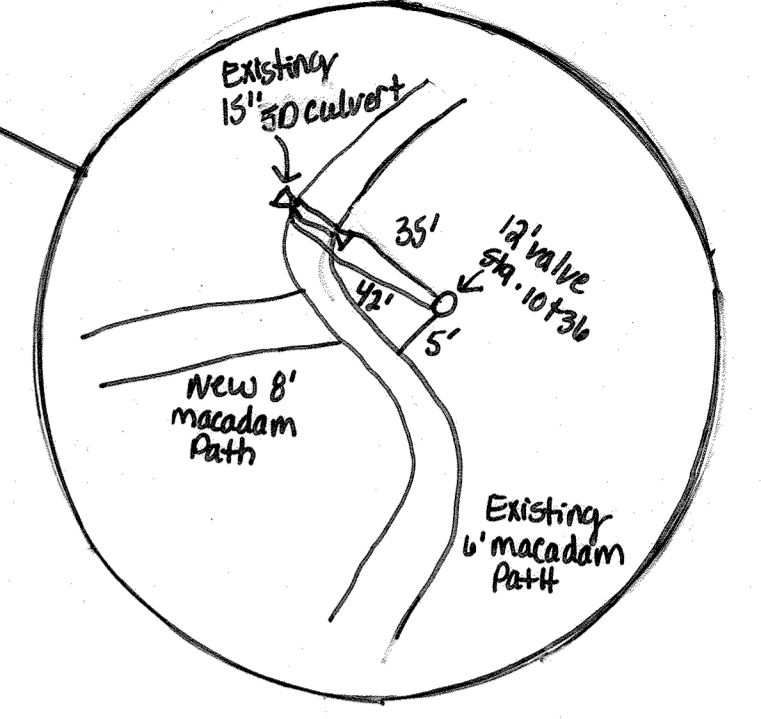
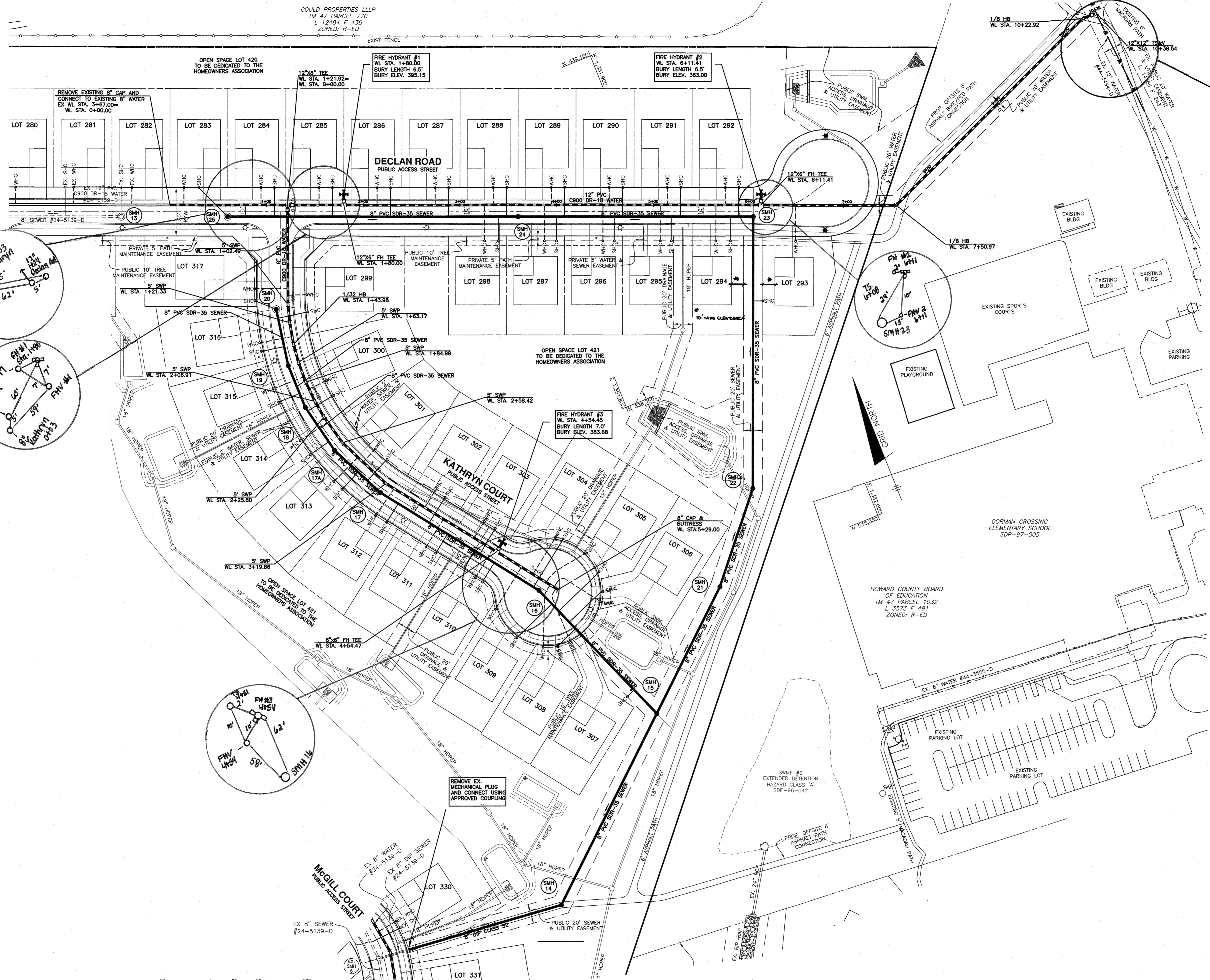
WELLINGTON FARMS
Phase 2 Section 2

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-5140-D

SCALE:
AS SHOWN

SHEET NO.
2 OF 9

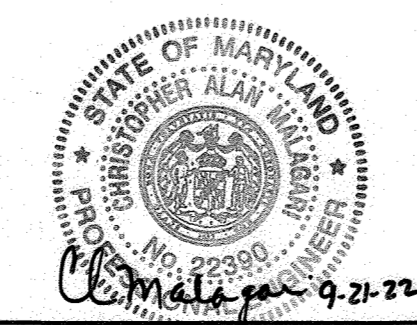


OWNER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLICOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLICOTT CITY, MARYLAND 21042
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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. 22390, Expiration Date: 6-30-2023.

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DESIGN: LDD			
DRAFT: LDD			
CHK: DBT			
DATE: 9.21.2022			
BY: NO.	REVISIONS	DATE	
	1. REVISION FOR LOTS 300 AND 308	4/5/2024	
		7/27/2023	

PUBLIC WATER AND SEWER PLAN

600 SCALE MAP # xx

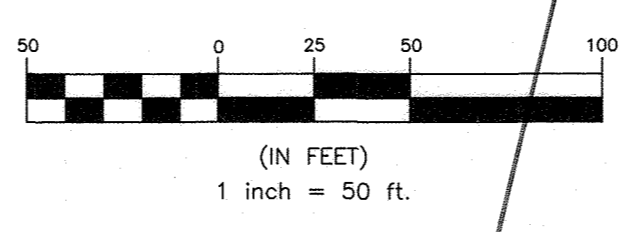
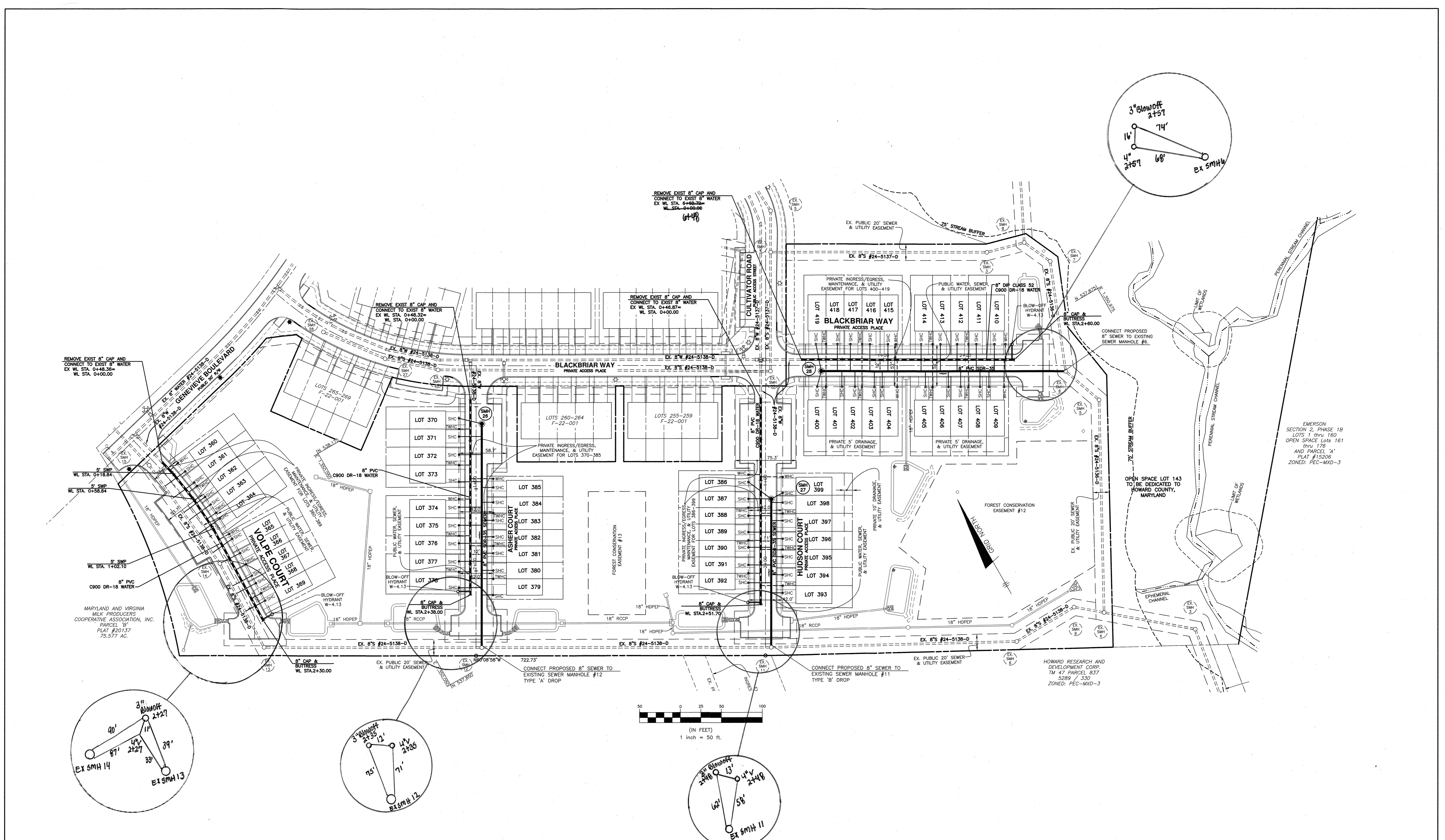
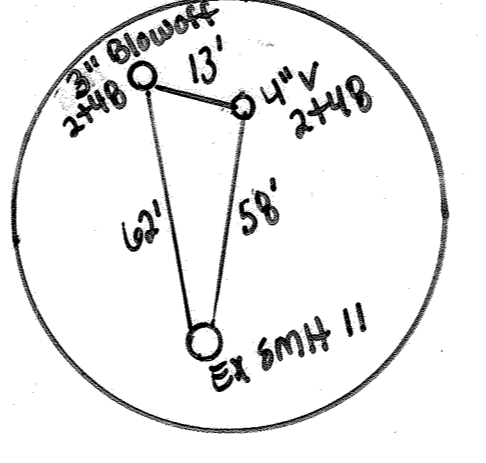
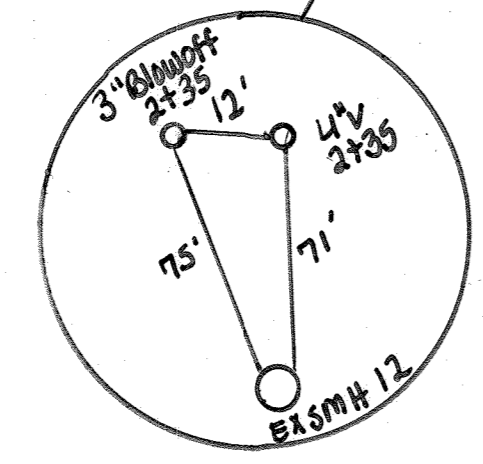
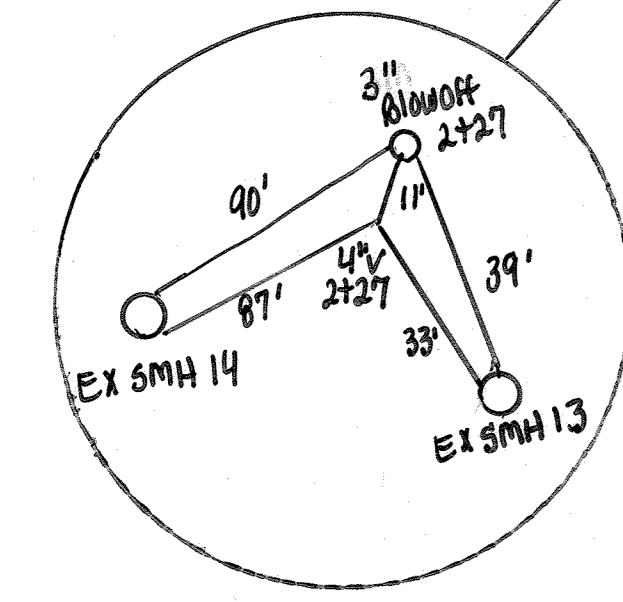
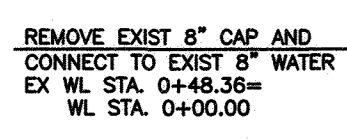
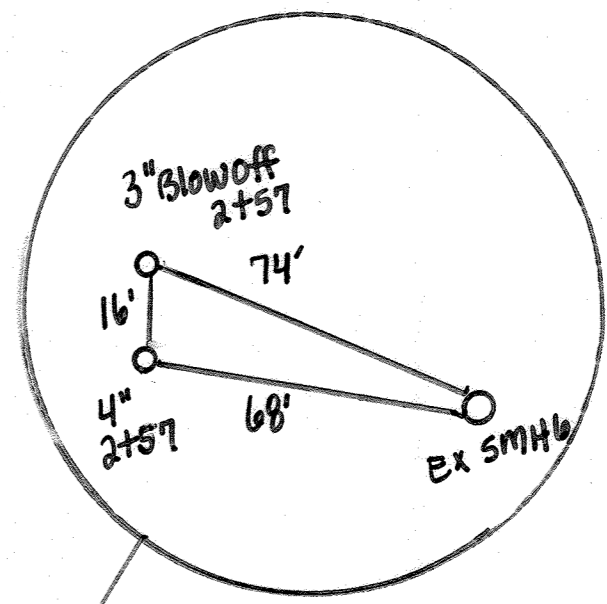
WELLINGTON FARMS PHASE 2 SECTION 2

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-5140-D

SCALE: AS SHOWN

SHEET NO. 3 OF 9

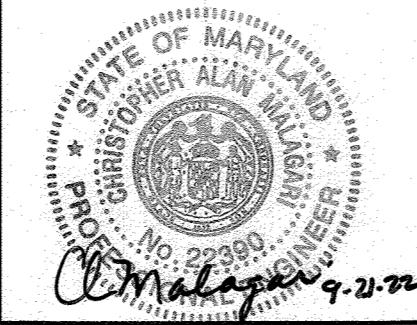


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410-720-3021

DEVELOPER:
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(P) 410-465-6105 (F) 410-465-6644
WWW.BE-ENGINEERING.COM



DESIGN: LDD				
DRAFT: LDD				
CHK: DBT				
DATE: 9.21.2022	BY: NO.	REVISIONS: OPI	DATE: 4/5/2024	

PUBLIC WATER AND SEWER PLAN

SCALE: 600 SCALE MAP # XX

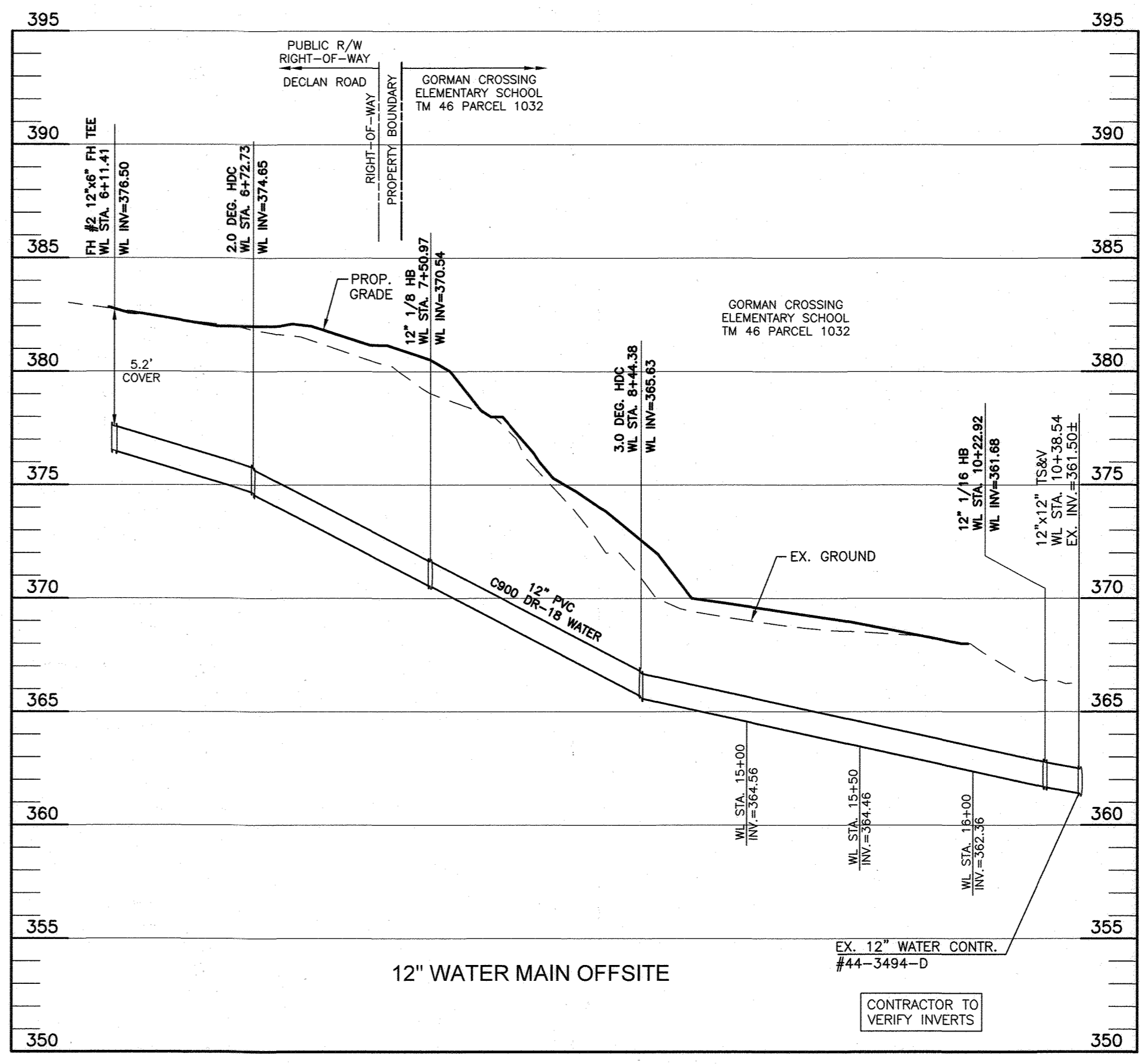
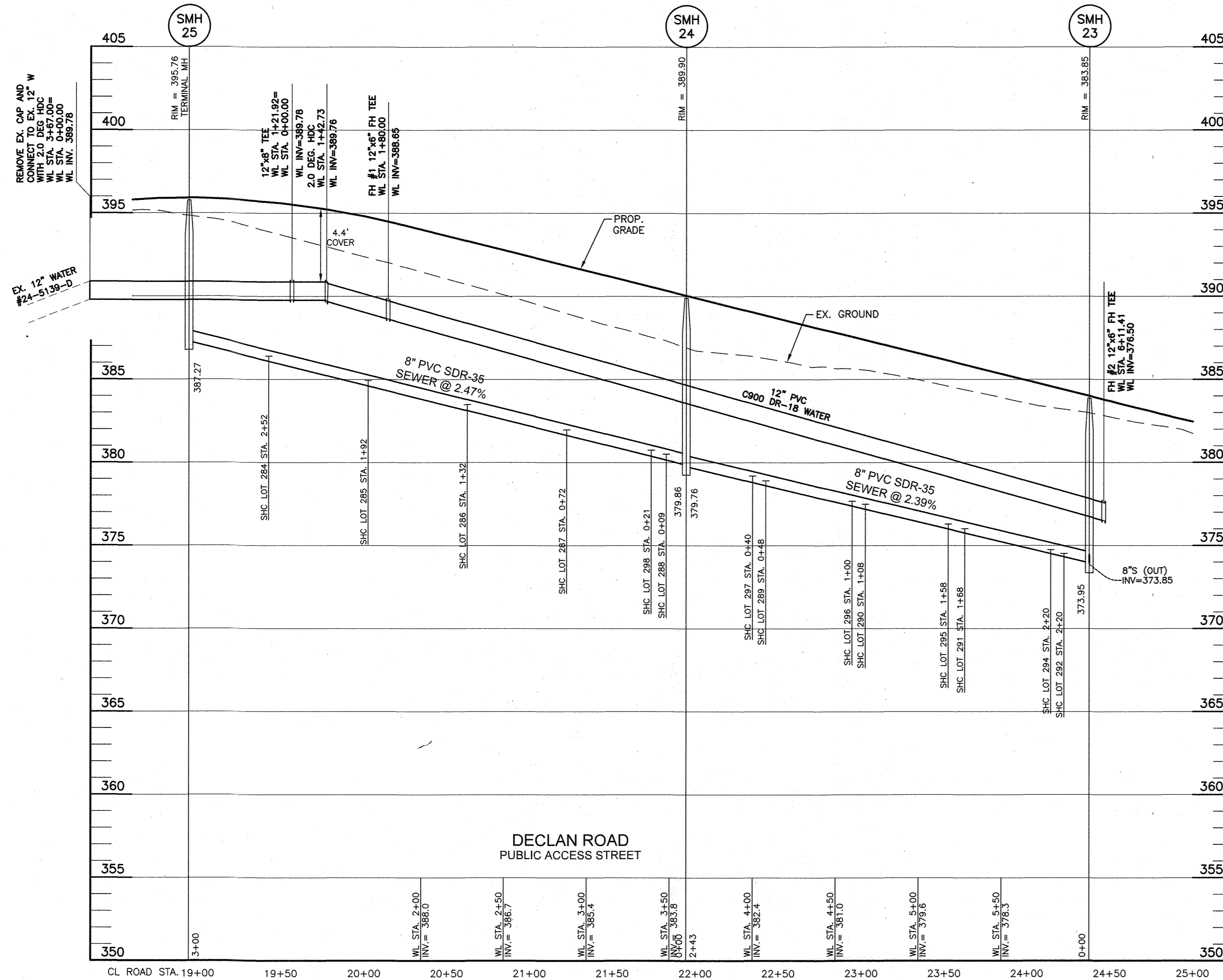
WELLINGTON FARMS
PHASE 2 SECTION 2

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

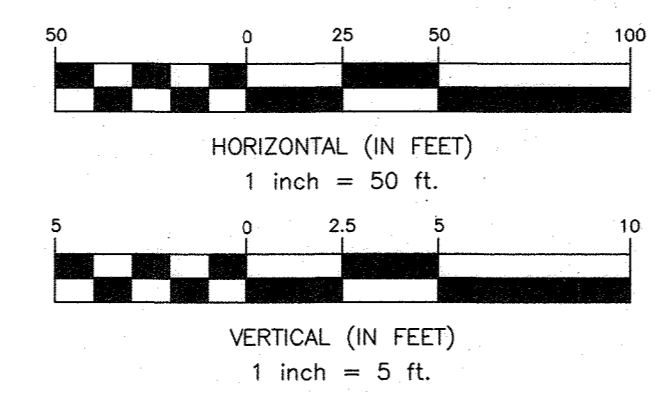
CONTRACT NO. 24-5140-D

SCALE: AS SHOWN

SHEET NO. 4 OF 9



WATER APPURTENANCES SCHEDULE			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
2.0 DEG. HDC	WL STA. 3+42.31	539218.6473	1351192.0457
12"x6" TEE	WL STA. 3+68.81	539208.7749	1351216.6405
12"x8" TEE	WL STA. 4+28.02	539186.7169	1351271.5929
2.0 DEG. HDC	WL STA. 6+20.40	539115.0523	1351450.1285
12"x8" TEE	WL STA. 7+30.73	539073.9560	1351552.5106
2.0 DEG. HDC	WL STA. 7+51.54	539066.2014	1351571.8293
12"x6" FH TEE	WL STA. 7+88.81	539052.3189	1351606.4142
2 DEG. HDC	WL STA. 12+81.54	538868.7561	1352063.6755
3 DEG. HDC	WL STA. 14+53.19	538876.2919	1352222.2025
12"x12" TS&V	WL STA. 16+47.35	538846.6624	1352401.9841

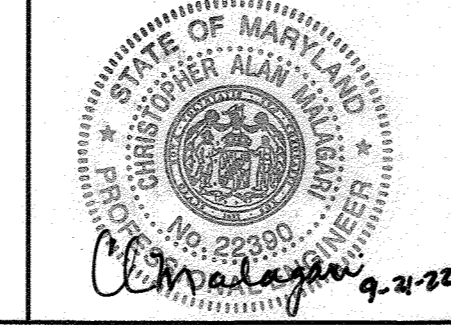


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410-720-3021

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BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS
3300 NORTH RIDGE ROAD & SUITE 140A ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6644
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DESIGN: LDD			
DRAFT: LDD			
CHK: DBT			
DATE: 9.21.2022	BY: NO.	REVISIONS: OF1	DATE: 4/17/2024

PUBLIC WATER AND SEWER PROFILES

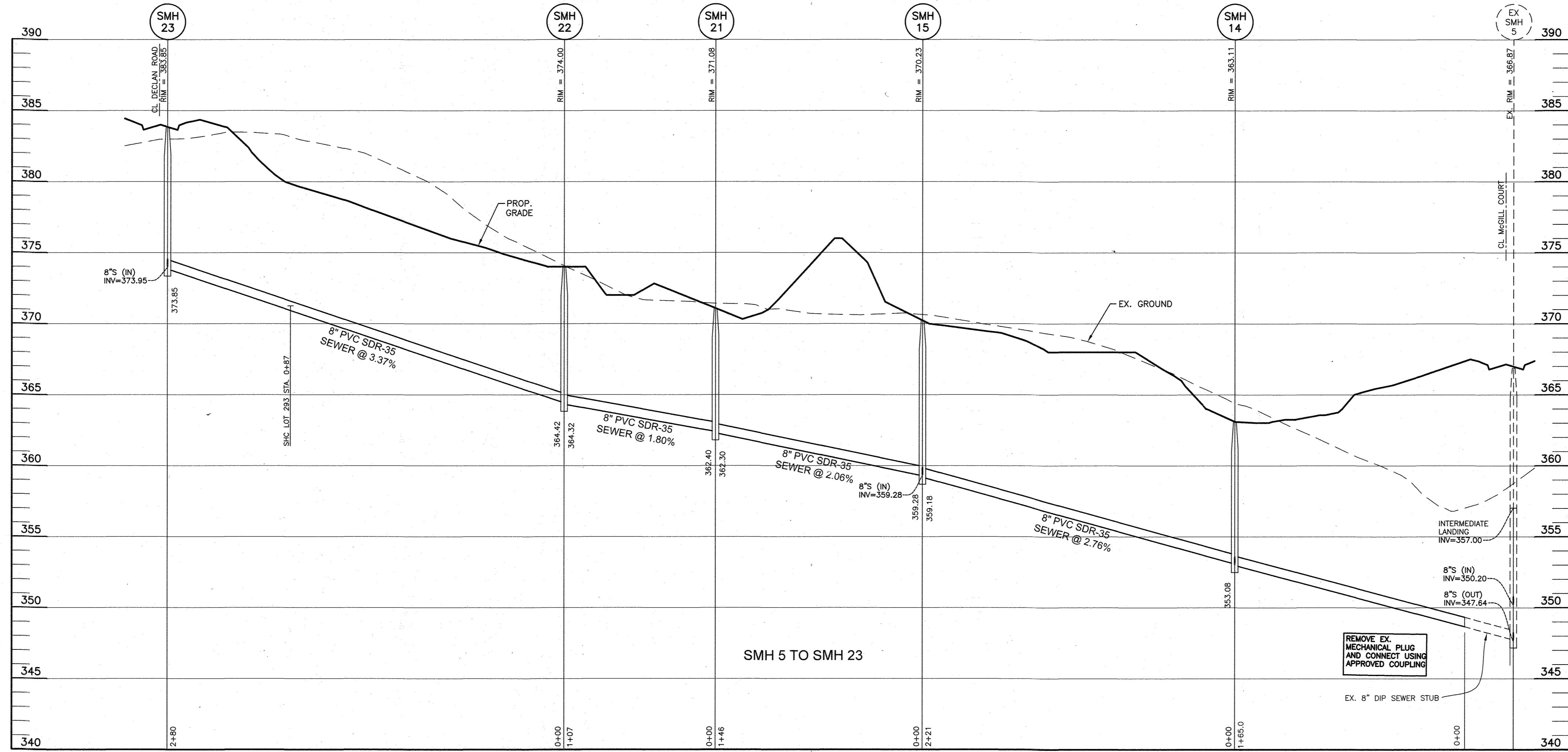
600 SCALE MAP # xx BLOCK: ---

WELLINGTON FARMS
PHASE 2 SECTION 2

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

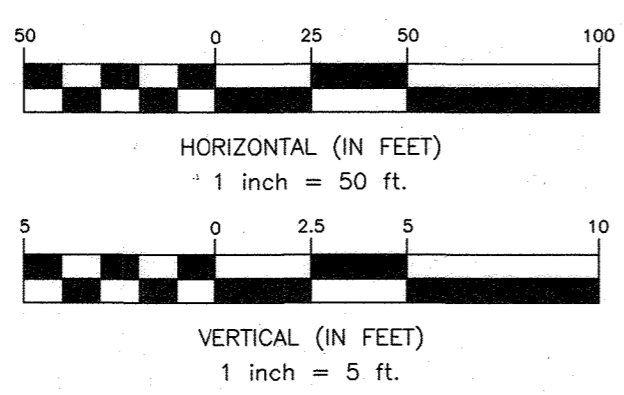
CONTRACT NO. 24-5140-D

SCALE: AS SHOWN
SHEET NO. 5 OF 9



Lot #	Owner	Connection	Remarks	Location
232	SMH 23	4\"/>		

Lot #	Owner	Connection	Remarks	Location
232	SMH 23	4\"/>		

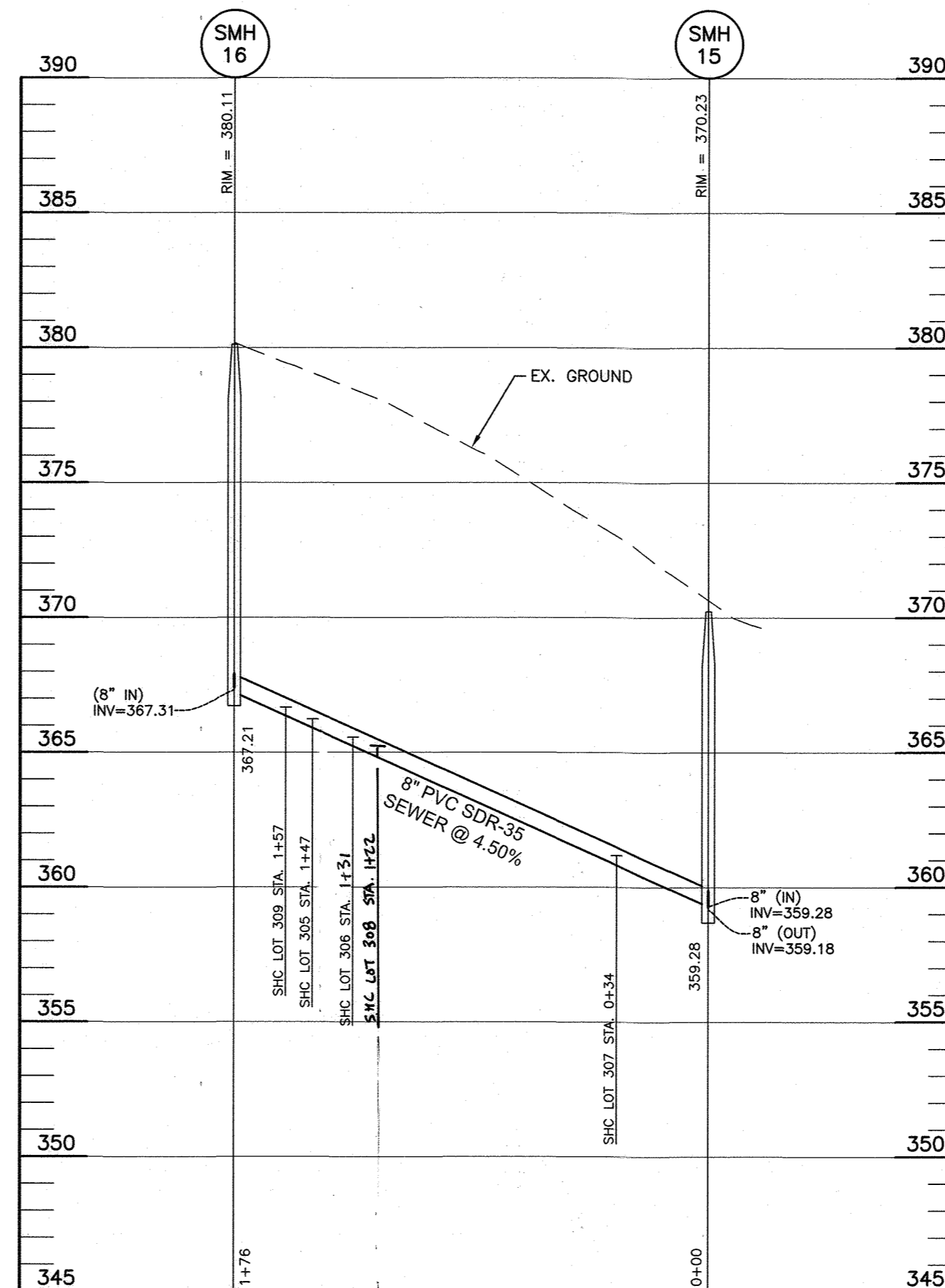
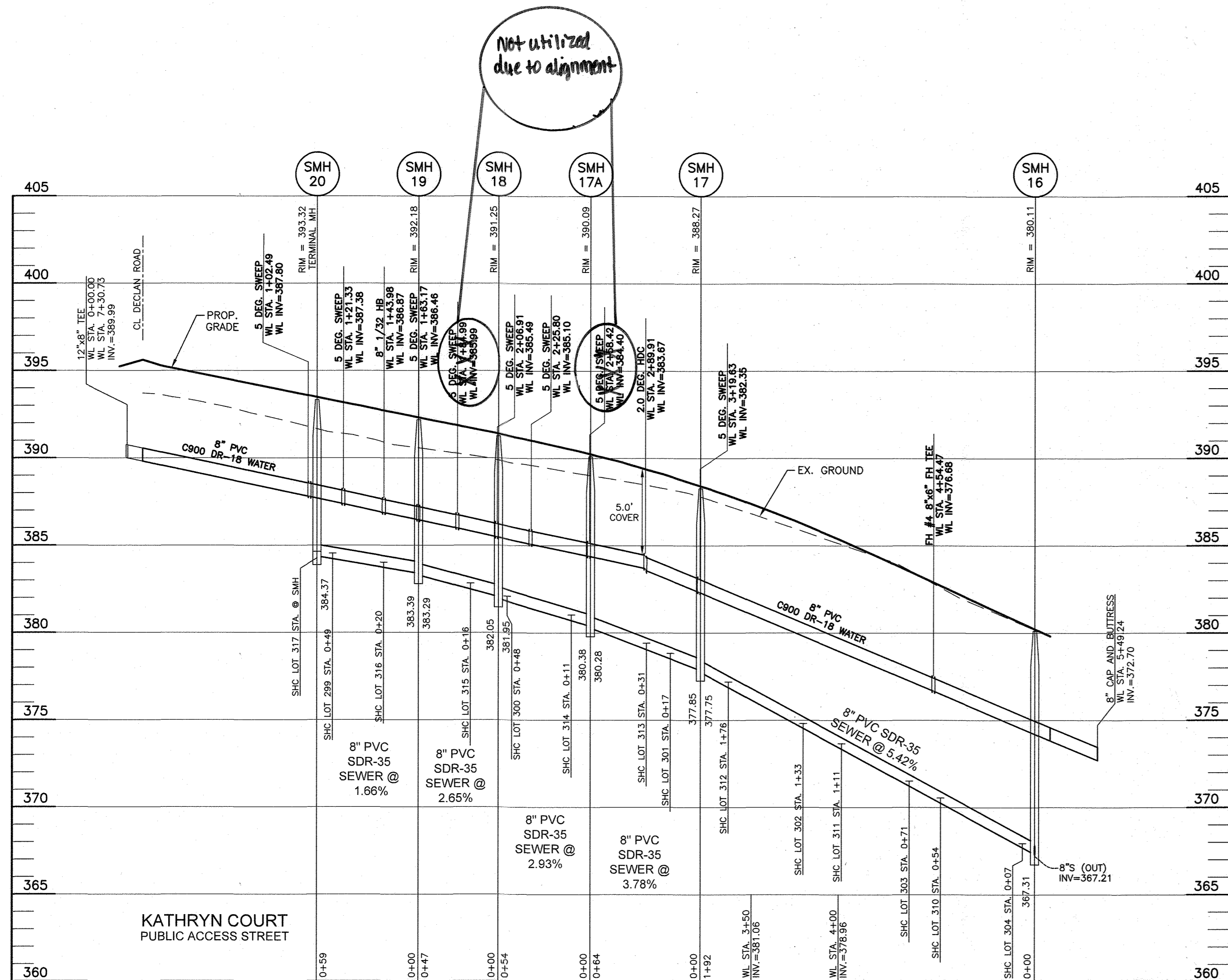


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Lot #	Owner	Connection	Remarks	Location
232	SMH 23	4\"/>		

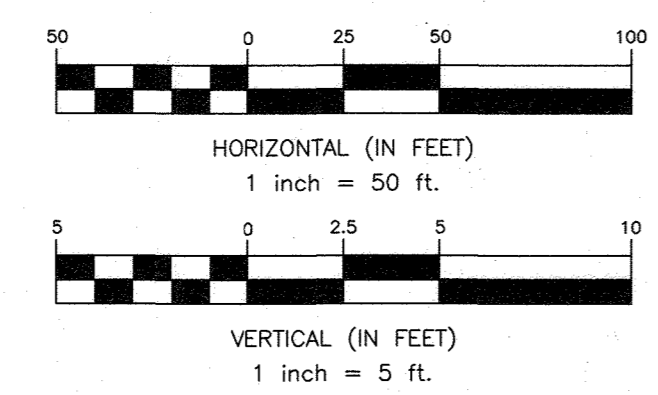
Lot #	Owner	Connection	Remarks	Location
232	SMH 23	4\"/>		

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION	BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. <small>3300 NORTH RIDGE ROAD & SUITE 140 • ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BE-CIVILENGINEERING.COM</small>	DESIGN: LDD DRAFT: LDD CHK: DBT DATE: 9.21.2022 BY: NO.		PUBLIC WATER AND SEWER PROFILES DATE: 9.21.2022 REVISIONS: OPI DATE: 4/08/2024 SCALE: 600 SCALE MAP # XX BLOCK: ---	WELLINGTON FARMS PHASE 2 SECTION 2 TAX MAP: 46 - GRID: 6 - PARCEL: 163 ZONED: R-SC-MXD-3 ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND CONTRACT NO. 24-5140-D	SCALE: AS SHOWN SHEET NO. 6 OF 9
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STRUCTURE TABLE							
NUMBER	TYPE	LOCATION	INVERT IN	INVERT OUT	TOP ELEV.	STD. DETAIL	REMARKS
EX SMH 9	48" MH	N538143.6113, E1351012.3842	331.75(8") 331.98(8")		348.67	HO. CO. STD. G-5-12	
14	48" MH	N538298.2308, E1351547.2502	353.08(8") 352.98(8")		363.11	HO. CO. STD. G-5-12	
15	48" MH	N538444.8509, E1351712.0229	359.28(8") 359.31(8")		370.23	HO. CO. STD. G-5-12	
16	48" MH	CL STA. 5+12.76 Kathryn Court, OFFSET 3.40 RIGHT	367.31(8") 367.21(8")		380.11	HO. CO. STD. G-5-12	
17	48" MH	CL STA. 3+20.53 Kathryn Court, OFFSET 4.65 RIGHT	377.85(8") 377.75(8")		388.27	HO. CO. STD. G-5-12	
17A	48" MH	CL STA. 2+57.28 Kathryn Court, OFFSET 4.57 RIGHT	380.38(8") 380.28(8")		390.09	HO. CO. STD. G-5-12	
18	48" MH	CL STA. 2+04.44 Kathryn Court, OFFSET 4.67 RIGHT	382.05(8") 381.95(8")		391.25	HO. CO. STD. G-5-12	
19	48" MH	CL STA. 1+58.54 Kathryn Court, OFFSET 4.21 RIGHT	383.39(8") 383.29(8")		392.18	HO. CO. STD. G-5-12	
20	48" MH	CL STA. 1+00.18 Kathryn Court, OFFSET 5.42 RIGHT	384.37(8") 384.27(8")		393.32	HO. CO. STD. G-5-12	
21	48" MH	N538541.9875, E1351821.1634	382.40(8") 382.30(8")		371.08	HO. CO. STD. G-5-12	
22	48" MH	N538623.4808, E1351890.4104	384.42(8") 384.32(8")		374.00	HO. CO. STD. G-5-12	
23	48" MH	CL STA. 24+37.61 Declan Road, OFFSET 5.00 RIGHT	373.95(8") 373.85(8")		383.85	HO. CO. STD. G-5-12	
24	48" MH	CL STA. 21+94.30 Declan Road, OFFSET 5.00 RIGHT	379.86(8") 379.76(8")		389.90	HO. CO. STD. G-5-12	
25	48" MH	CL STA. 18+94.30 Declan Road, OFFSET 5.00 RIGHT	387.27(8") 387.17(8")		395.76	HO. CO. STD. G-5-12	
26	48" MH	CL STA. 0+70.73 Aeher Court, OFFSET 7.00 LEFT	378.94(8") 378.84(8")		387.89	HO. CO. STD. G-5-12	
27	48" MH	CL STA. 1+62.75 Hudson Court, OFFSET 7.00 LEFT	371.65(8") 371.55(8")		379.82	HO. CO. STD. G-5-12	
28	48" MH	CL STA. 6+86.68 Blackbriar Way, OFFSET 6.92 RIGHT	362.35(8") 362.25(8")		376.78	HO. CO. STD. G-5-12	

WATER APPURTENANCES SCHEDULE			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
5 DEG. SWEEP	WL STA. 1+02.49	538978.6565	1351514.7879
8" 1/32 HB	WL STA. 1+43.98	538938.3988	1351504.9280
5 DEG. SWEEP	WL STA. 1+63.17	538919.3318	1351502.7343
5 DEG. SWEEP	WL STA. 1+84.99	538887.5150	1351499.1592
5 DEG. SWEEP	WL STA. 2+06.91	538875.6382	1351503.4918
5 DEG. SWEEP	WL STA. 2+26.80	538856.6526	1351506.2382
5 DEG. SWEEP	WL STA. 2+58.42	538826.3427	1351511.1831
2.0 DEG. HDC	WL STA. 2+89.91	538796.7973	1351527.5445
5 DEG. SWEEP	WL STA. 3+19.63	538769.6988	1351540.2933
8"x8" FH TEE	WL STA. 4+54.47	538661.4143	1351620.2591
8" CAP AND BUTTRESS	WL STA. 10+27.93	538585.1890	1351676.5661

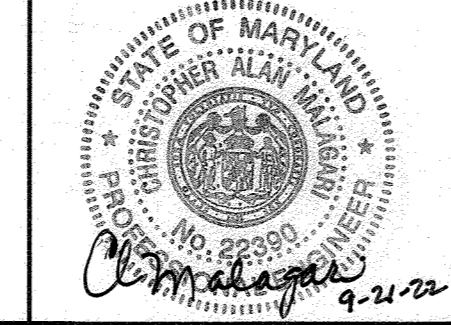


OWNER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

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. 2339, Expiration Date: 6-30-2023.

BENCHMARK ENGINEERING, INC.
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3300 NORTH RIDGE ROAD • SUITE 140 • ELLCOTT CITY, MARYLAND 21043
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DESIGN: LDD	
DRAFT: LDD	
CHK: DBT	
DATE: 9.21.2022	
BY: NO.	REVISIONS
	1 REVISE LOT 306 AND 308 SHC LOCATIONS
	DATE: 4/10/2024

PUBLIC WATER AND SEWER PROFILES

600 SCALE MAP # xx

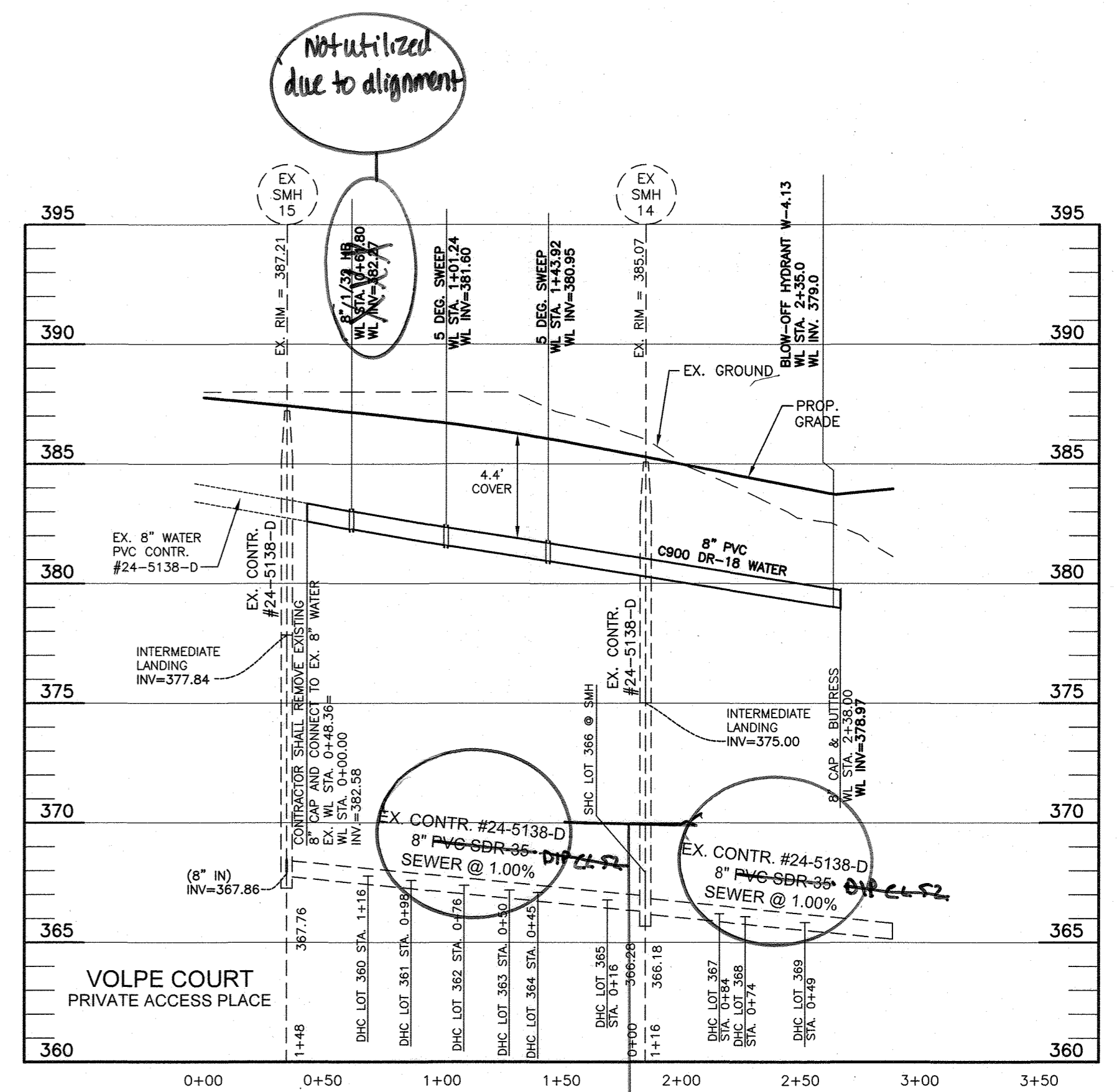
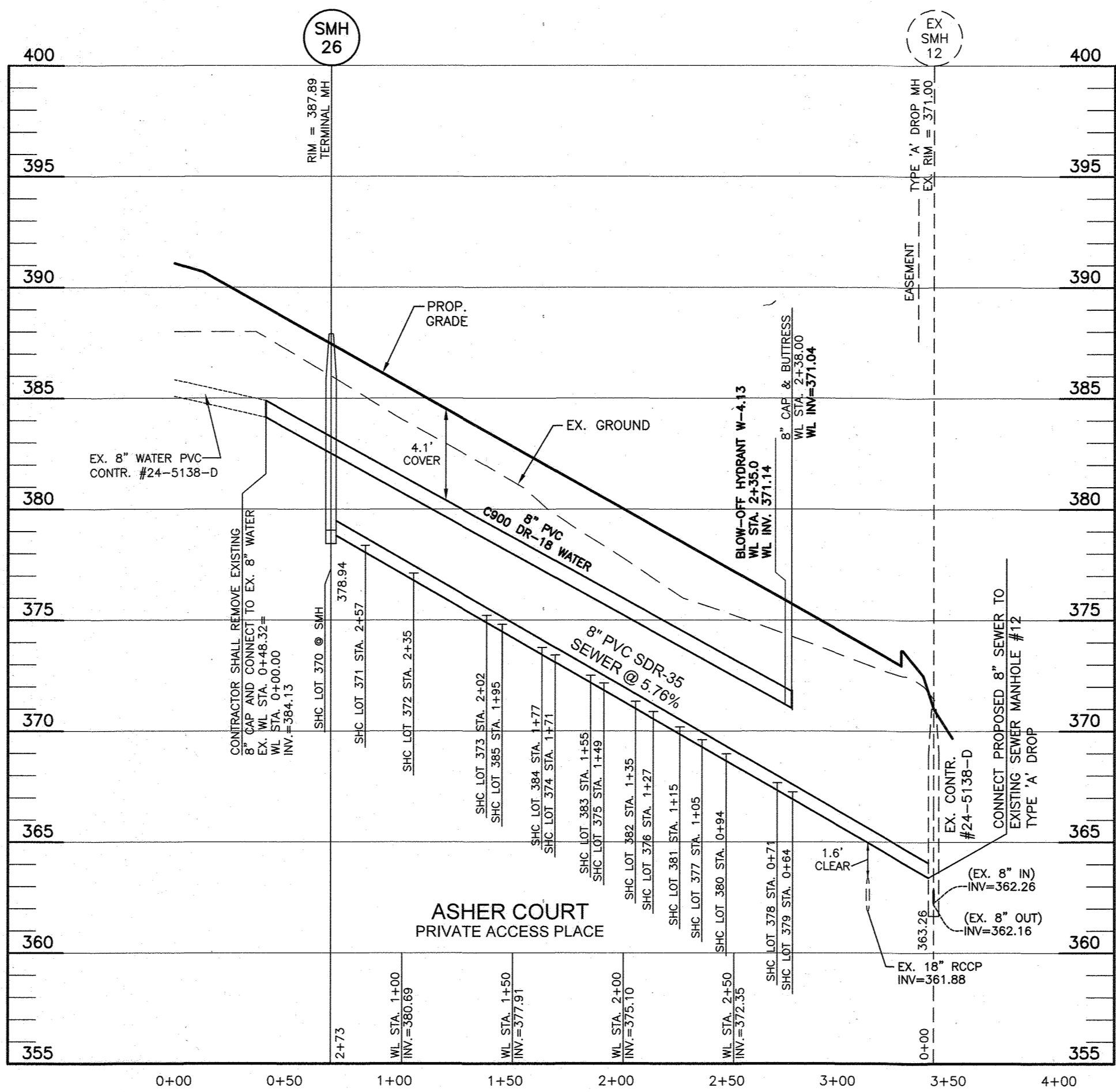
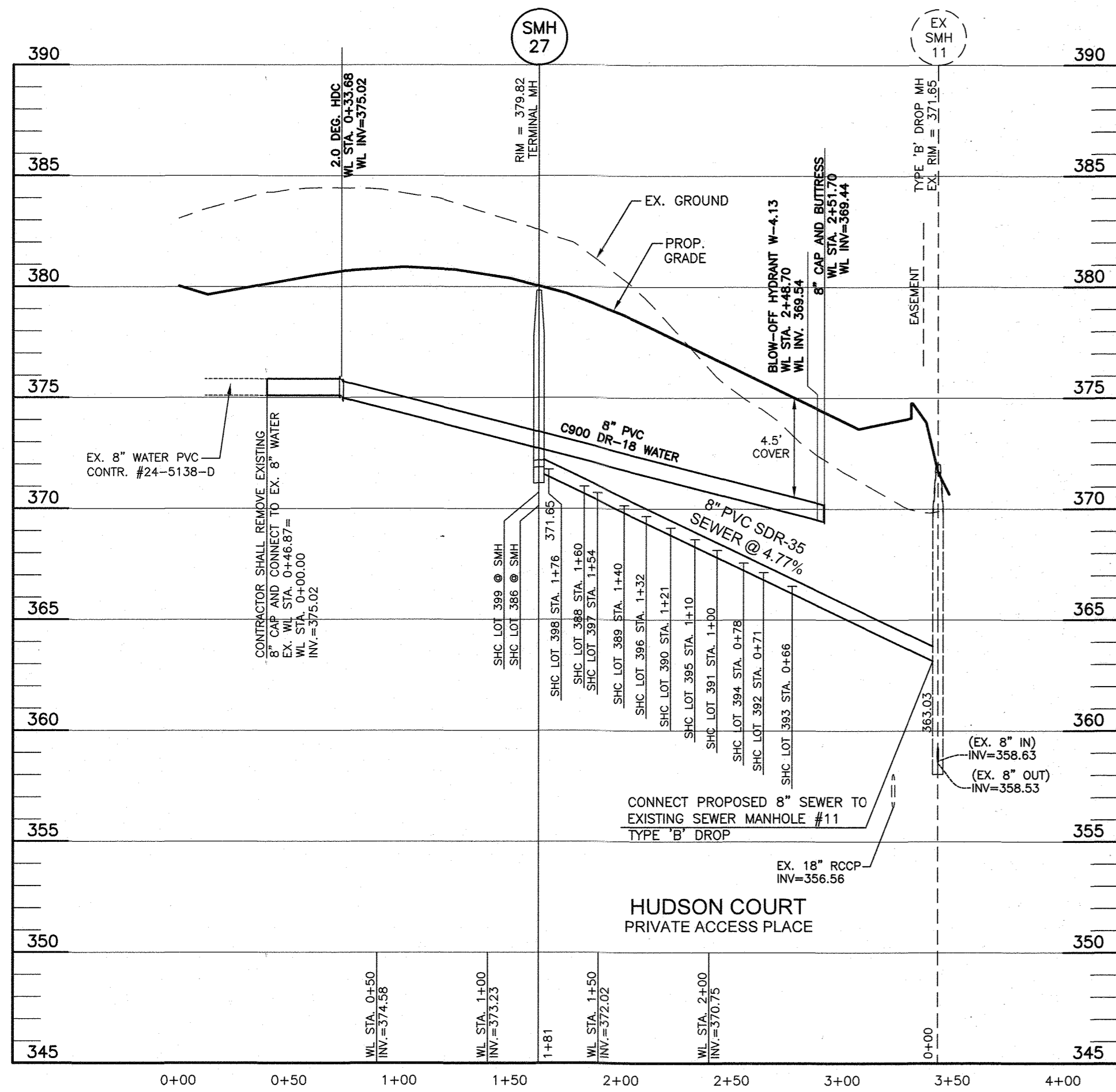
WELLINGTON FARMS PHASE 2 SECTION 2

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-5140-D

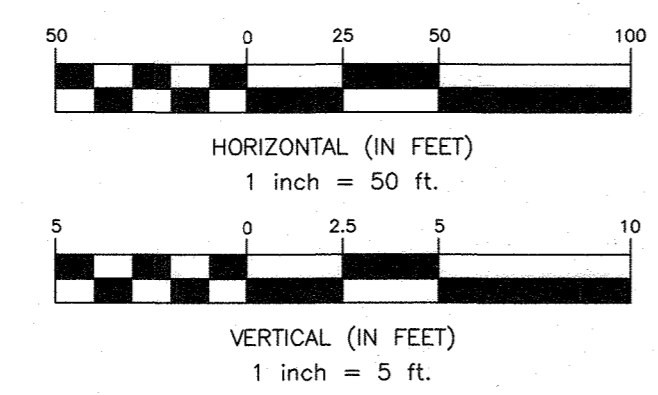
SCALE: AS SHOWN

SHEET NO. 7 OF 9



WATER APPURTENANCES SCHEDULE

APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
2.0 DEG HDC	WL STA. 0+88.53	537888.9063	1350508.9118
8" CAP AND BUTTRISS	WL STA. 2+51.70	537745.6223	1350426.7540
8" CAP AND BUTTRISS	WL STA. ???	537941.1587	1350130.2208
5 DEG SWEEP	WL STA. 1+01.24	538202.0943	1349890.2569
5 DEG SWEEP	WL STA. 1+43.92	538158.9303	1349893.1856
8" CAP AND BUTTRISS	WL STA. 2+78.78	538017.2960	1349890.4084

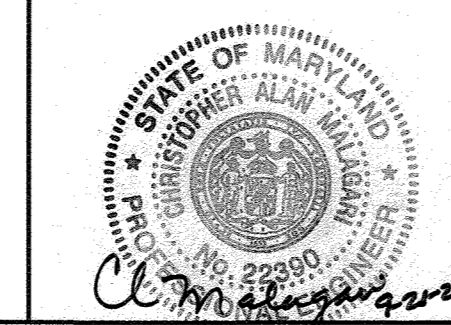


OWNER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER: ESC WELLINGTON, L.C.
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ELLCOTT CITY, MARYLAND 21042
410-720-3021

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. 22390, Expiration Date: 6-30-2023.

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DRAFT: LDD			
CHK: DBT			
DATE: 9.21.2022	BY: NO.	REVISIONS: OF1	DATE: 4/10/2024

PUBLIC WATER AND SEWER PROFILES

SCALE: AS SHOWN

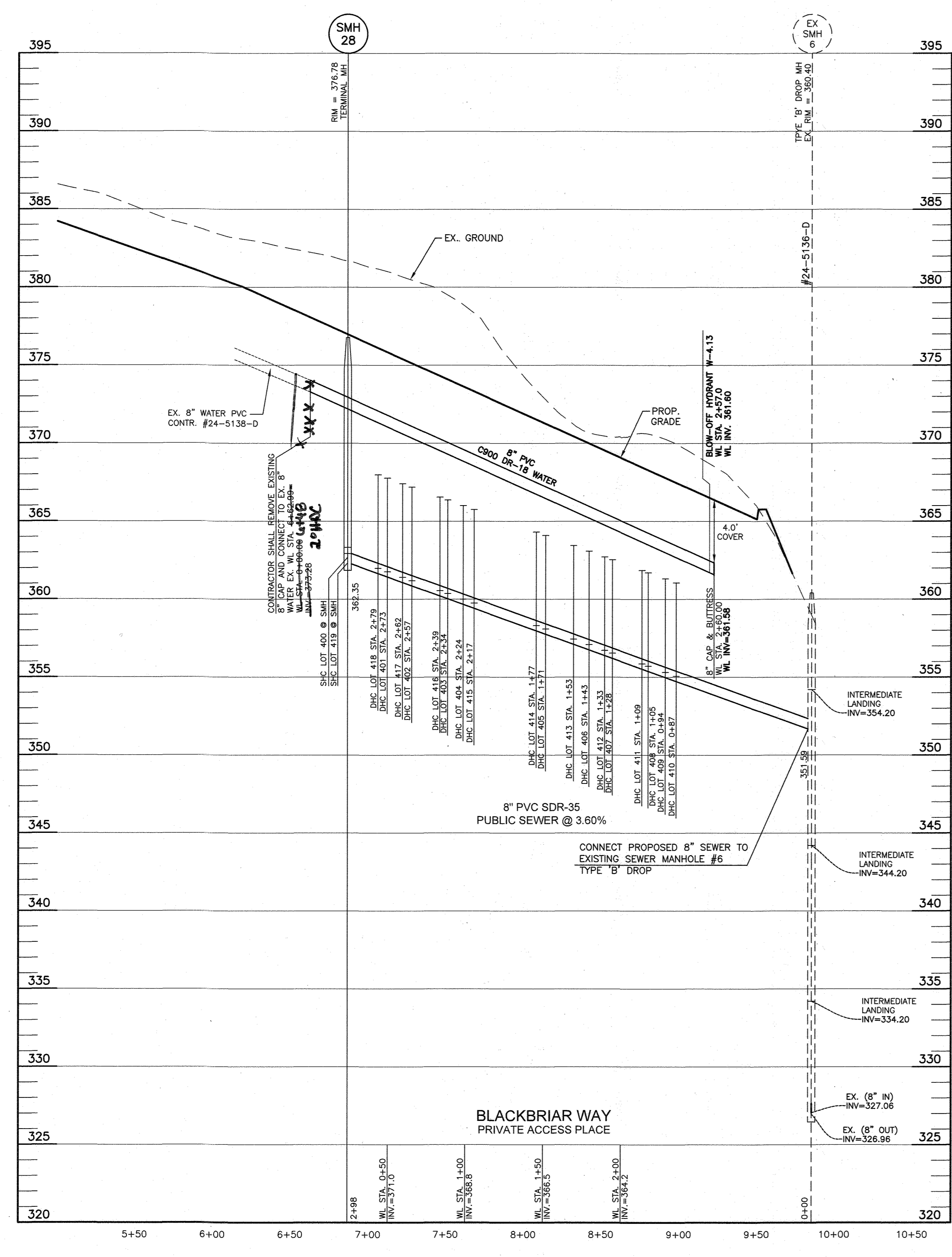
600 SCALE MAP # xx

WELLINGTON FARMS PHASE 2 SECTION 2

CONTRACT NO. 24-5140-D

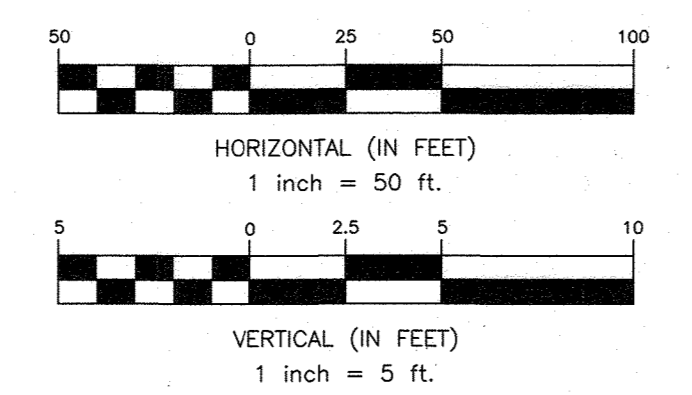
TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
SHEET NO. 8 OF 9



SHC CHART						
Lot Number	Invert @ main	DHC?	DHC standpipe length/height	Invert @ R/W or esmt line	Minimum Cellar Elevation	Basement Floor
283	387.34			388.18	392.08	392.20
284	386.40			386.96	390.86	392.20
285	384.93			385.49	389.39	390.78
286	383.49			384.05	387.95	389.48
287	381.97			382.53	386.43	387.99
288	380.51			381.07	384.97	386.50
289	378.91			379.47	383.37	385.01
290	377.49			378.05	381.95	385.01
291	376.00			376.56	380.46	382.04
292	374.52			375.08	378.98	380.55
293	371.26			371.42	375.32	377.88
294	374.74			375.20	379.08	379.81
295	376.28			376.74	380.62	381.42
296	377.66			378.12	382.00	382.92
297	379.20			379.66	383.54	384.37
298	380.74			381.20	385.08	385.89
299	384.54			385.12	389.16	388.77
300	382.09			382.65	386.69	386.69
301	378.83			379.39	383.43	384.49
302	374.80			375.36	379.40	381.73
303	371.51			372.07	376.11	378.98
304	367.94			369.06	372.98	376.29
305	366.23			367.35	371.15	373.90
306	365.55			366.27	370.91	373.90
307	361.17			361.33	365.45	371.17
308	364.74			364.74	364.74	372.75
309	366.86			367.82	371.52	374.82
310	370.55			370.97	374.87	378.75
311	373.66			374.08	377.98	380.90
312	377.19			377.63	381.53	383.00
313	379.42			379.86	383.76	384.60
314	381.03			381.45	386.39	385.79
315	382.82			383.24	387.18	386.82
316	384.02			384.44	388.24	387.85
317	384.63			385.09	389.29	389.69
360	380.62			381.20	385.00	388.99
361	380.94			381.54	385.34	388.99
362	367.38	Y	8.0	376.00	379.80	388.32
363	367.18	Y	8.0	375.80	379.60	388.32
364	367.10	Y	8.0	375.72	379.52	387.65
365	365.96	Y	8.0	374.52	378.32	387.46
366	366.42			366.90	370.70	386.79
367	366.25	Y	8.0	374.77	378.57	386.12
368	366.18	Y	8.0	374.70	378.50	386.12
369	365.96	Y	8.0	366.48	376.20	385.45
370	379.06	Y	8.0	379.53	383.33	389.35
371	378.37			378.87	382.59	386.35
372	377.10			377.60	381.32	386.67
373	374.80			375.30	379.02	385.33
374	373.42			373.92	377.64	383.27
375	372.16			372.66	376.38	381.93
376	370.88			371.38	375.10	380.59
377	369.61			370.11	373.83	379.25
378	367.66			368.16	371.88	377.90
379	367.25			367.47	371.19	377.94
380	368.98			369.20	373.00	379.28
381	370.19			370.41	374.21	379.95
382	371.34			371.56	375.36	381.29
383	372.50			372.72	376.52	382.63
384	373.77			373.99	377.79	383.97
385	374.80			375.02	378.82	385.31
386	371.87			372.47	376.27	382.21
387	372.18			372.88	376.48	381.54
388	371.00			371.50	375.22	380.87
389	370.14			370.64	374.36	380.20
390	369.14			369.84	373.36	379.53
391	368.14			368.84	372.36	378.19
392	367.14			367.84	371.36	376.85
393	366.52			366.74	370.56	376.04
394	367.57			367.79	371.61	377.38
395	368.62			368.84	372.66	378.72
396	369.67			369.89	373.71	380.06
397	370.72			370.94	374.76	380.73
398	371.77			371.99	375.81	381.40
399	372.18			372.40	376.22	382.07
400	363.32			363.68	367.42	378.78
401	361.76	YES	6.0	368.12	371.86	378.11
402	361.19	YES	6.0	367.55	371.29	376.77
403	360.36	YES	6.0	366.72	370.46	376.10
404	360.00	YES	6.0	366.36	370.10	374.76
405	368.09	YES	6.0	364.45	368.19	372.92
406	367.08	YES	6.0	363.44	367.18	372.25
407	366.54	YES	6.0	362.90	366.64	370.91
408	365.71	YES	6.0	362.07	365.81	370.24
409	365.31	YES	6.0	361.87	365.41	368.90
410	365.06	YES	6.0	361.70	365.44	368.90
411	365.85	YES	6.0	362.49	366.23	370.24
412	366.72	YES	6.0	363.36	367.10	370.91
413	367.44	YES	6.0	364.08	367.82	372.25
414	368.30	YES	6.0	364.94	368.68	372.92
415	369.74	YES	6.0	366.38	370.12	374.76
416	360.54	YES	6.0	367.18	370.92	376.10
417	361.40	YES	6.0	368.04	371.78	376.77
418	361.89	YES	6.0	368.53	372.27	378.11
419	362.92			363.86	367.30	378.78

All SHC's are at a 2.0% unless otherwise noted.
 All Drop connections are Ho.Co.Std. S-2.12 Type 'A'



OWNER: ESC WELLINGTON, L.C.
 5074 DORSEY HALL DRIVE, SUITE 205
 ELLICOTT CITY, MARYLAND 21042
 410-720-3021

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 3300 NORTH RIDGE ROAD • SUITE 140 • ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644
 WWW.BEI-ENGINEERING.COM

DESIGN: LDD	
DRAFT: LDD	
CHK: DBT	
DATE: 9.21.2022	
BY: NO.	
REVISIONS	
1	REVISE LOT 306 AND 308 SHC INFO IN CHART
DATE: 4/11/2024	
DATE: 7.7.2023	

PUBLIC WATER AND SEWER PROFILES

DESIGN: LDD
 DRAFT: LDD
 CHK: DBT
 DATE: 9.21.2022
 BY: NO.

WELLINGTON FARMS
 PHASE 2 SECTION 2

TAX MAP: 46 - GRID: 6 - PARCEL: 163
 ZONED: R-SC-MXD-3
 ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-5140-D

SCALE: AS SHOWN
 SHEET NO. 9 OF 9