

# 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 JULY, 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. 380B AND NO. 380C.  
ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 380S AND 380E.  
4. 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 MADE 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).....410-685-9123  
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.....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 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(4) 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 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 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 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 HARNESSSES. 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 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 BEST 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 CERTAINTED 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 AWWA 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 AWWA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAN 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 INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EDIA 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 WATERIGHT FRAME AND COVER, STANDARD DETAIL CS-52. WHERE WATERIGHT 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.

*Alvin J. Brathie*  
HOWARD SOIL CONSERVATION DISTRICT  
DATE: 04/22/24

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-24-017.

OWNER:  
TROTTER 587, LLC,  
1819 PANARAMA CT,  
MCCLEAN, VA 22101  
(P) 443-250-1555

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: 06-30-2025.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Kevin P. ...*  
4/17/2024  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
*Chad ...*  
4-25-24  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK  
ENGINEERS LAND SURVEYORS & PLANNERS  
3300 NORTH RIDGE ROAD SUITE 140 A ELLECIOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-8644  
WWW.BE-CIVILENGINEERING.COM

DESIGN: JCO  
DRAFT: JCO  
CHK: CAM  
DATE: APRIL 2024

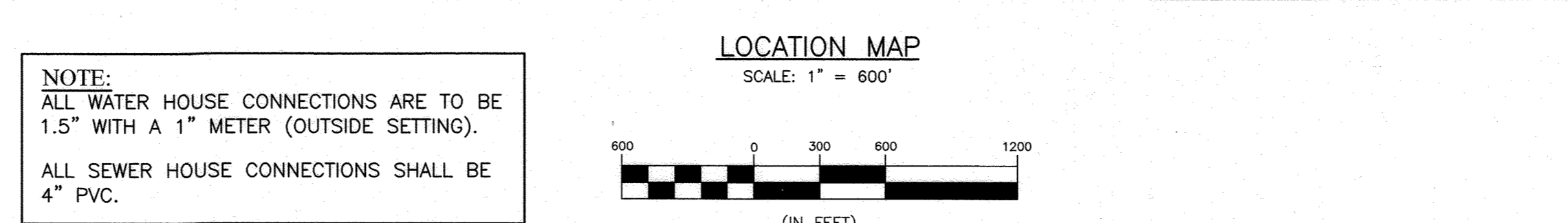
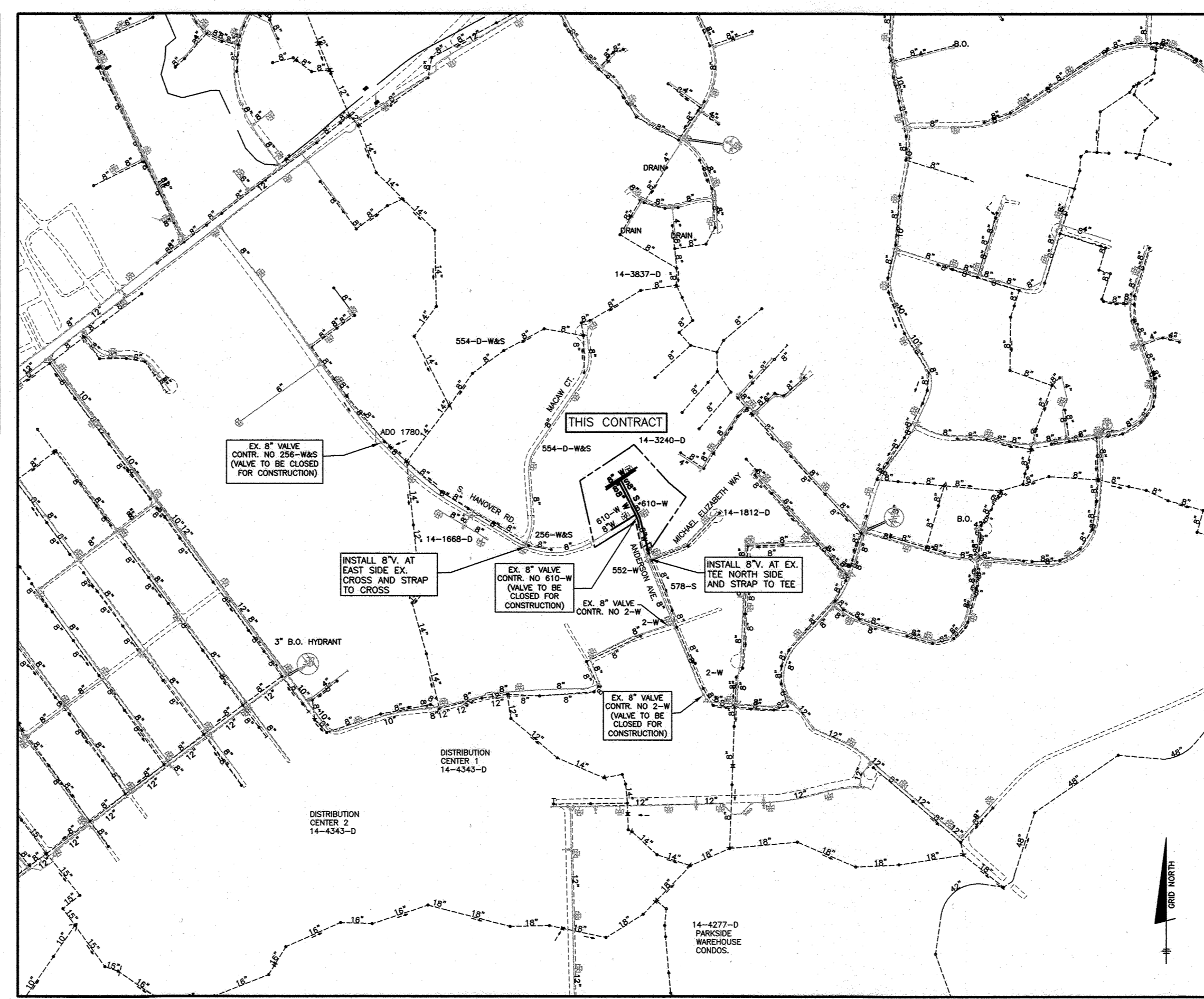
REVISIONS  
BY NO. DATE  
JCO 1 REVISE WATER & SEWER BASED ON DEVELOPMENT LAYOUT APRIL 2024  
REDESIGN

# THE AERIE IN ELKRIDGE PUBLIC WATER AND PUBLIC SEWER PLANS CONTRACT NO. 14-5114-D

ITEMS	QUANTITIES ESTIMATED	ASBUILT		
		QUANTITIES	TYPE	MANU/SUPPLIER
8" WATER (PVC-C900 DR18)	591 LF			
6" FIRE HYDRANT, TEE & VALVE	2			
1.5" WHC	128 LF			
8" VALVE	6			
1" METER VAULT	8			
8" DIP SEWER	129 LF			
8" PVC SDR-35 SEWER	536 LF			
MANHOLES	7			
4" SHC	105 LF			
4" SEWER CLEANOUT	8			

BLDG	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	6382 S. HANOVER DRIVE		
2	6386 S. HANOVER DRIVE		
3	6390 S. HANOVER DRIVE		
4	6391 S. HANOVER DRIVE		
5	6387 S. HANOVER DRIVE		
6	6383 S. HANOVER DRIVE		
7	6379 S. HANOVER DRIVE		
8	6375 S. HANOVER DRIVE		

BLDG	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	6382 S. HANOVER DRIVE		
2	6386 S. HANOVER DRIVE		
3	6390 S. HANOVER DRIVE		
4	6391 S. HANOVER DRIVE		
5	6387 S. HANOVER DRIVE		
6	6383 S. HANOVER DRIVE		
7	6379 S. HANOVER DRIVE		
8	6375 S. HANOVER DRIVE		

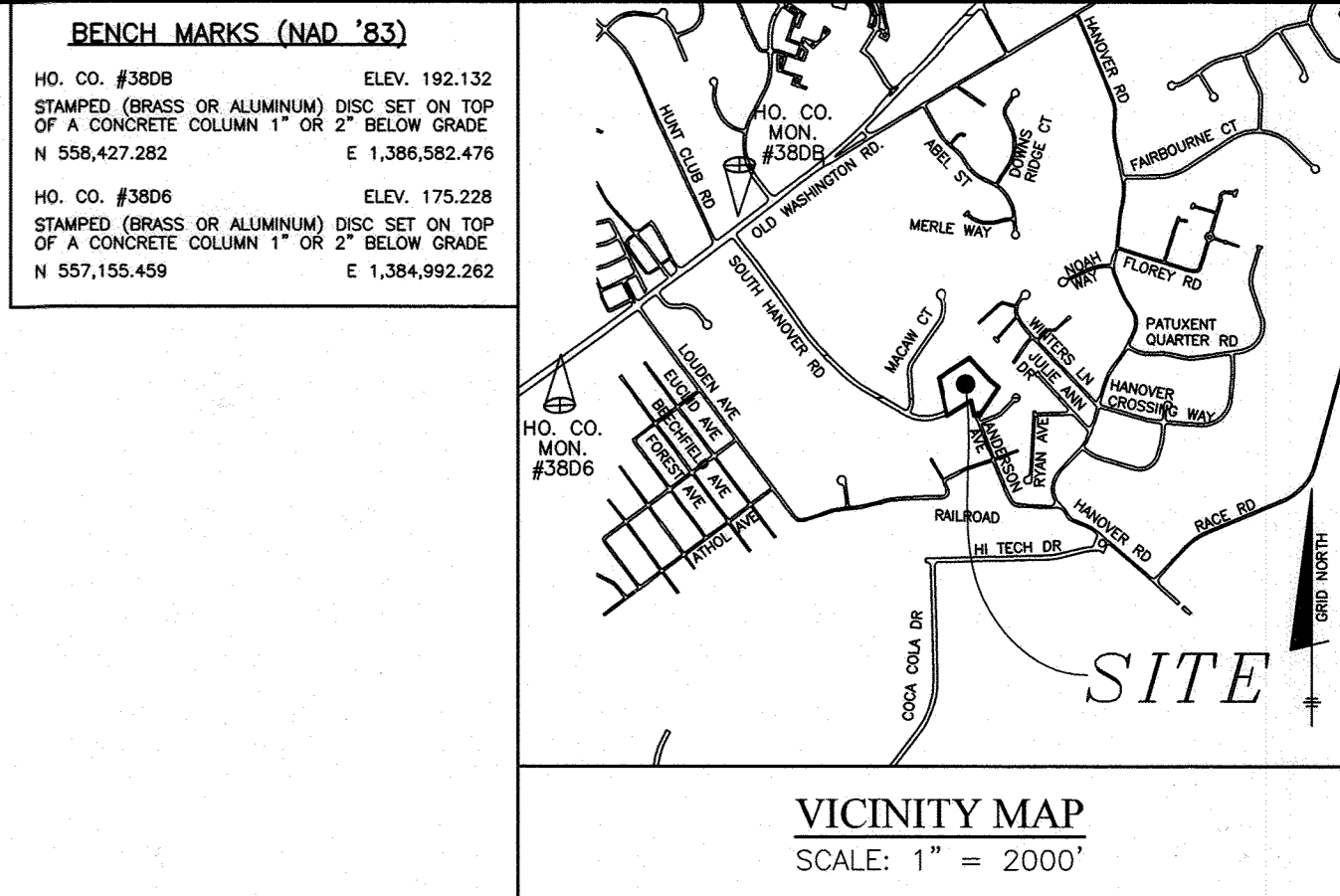


NOTE:  
ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).  
ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC.

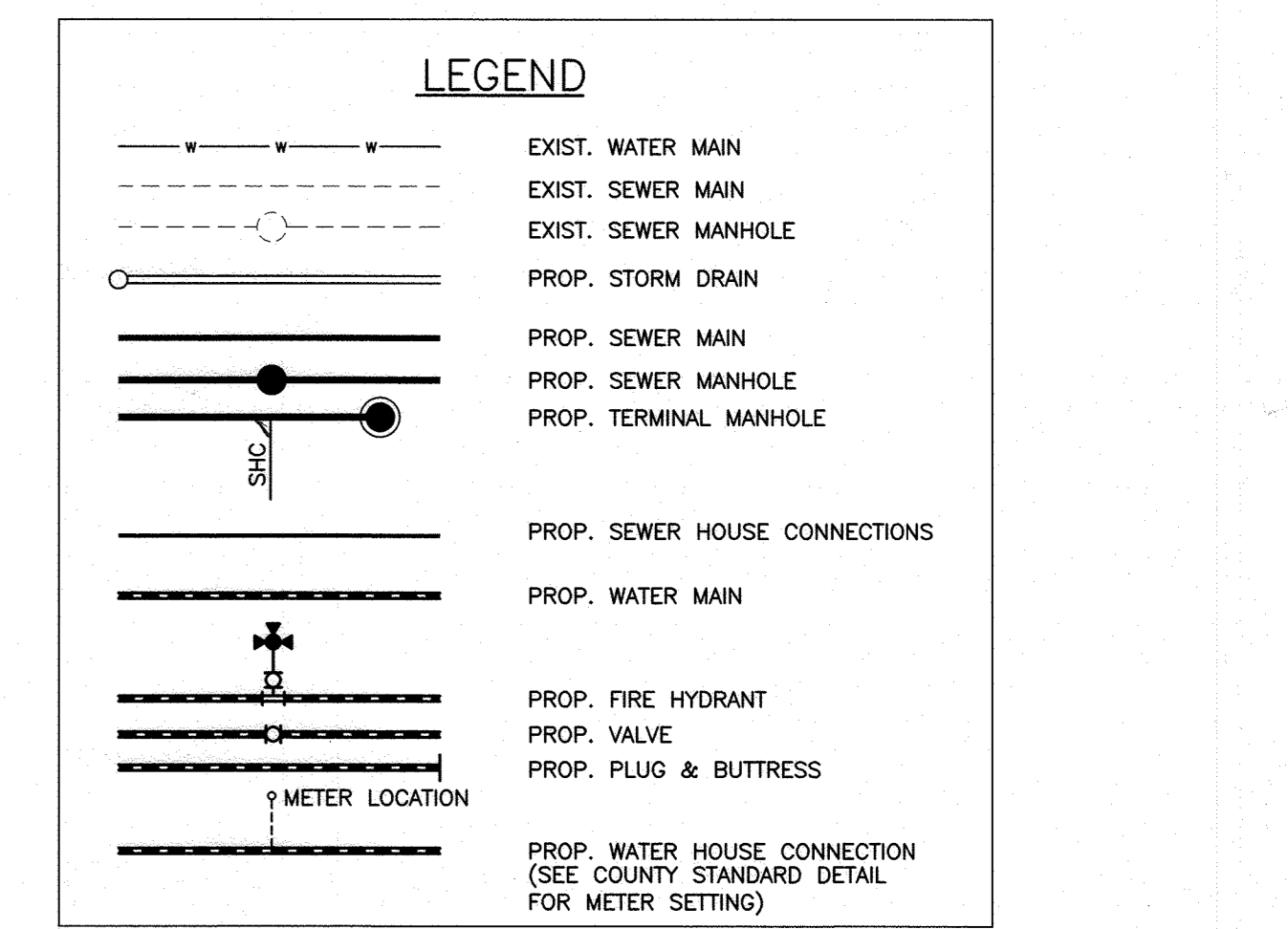
TYPE OF BUILDING:	RESIDENTIAL - SFD
NUMBER OF UNITS:	8
NUMBER OF SHC'S:	8
NUMBER OF WHC'S:	8
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WTP
WATER ZONE:	400
TEST GRADIENT:	677
TEST PRESSURE:	225

VALVE CLOSURE FOR CONSTRUCTION:  
CONTRACTOR SHALL COORDINATE WITH DPW ON TEMPORARY SERVICE INTERRUPTIONS DURING THE TWO (2) 8" VALVE INSTALLATIONS AT THE INTERSECTION OF MACAW COURT/S. HANOVER ROAD AND ANDERSON AVENUE/MICHAEL ELIZABETH WAY. ONCE VALVES ARE IN PLACE, CONSTRUCTION CAN TAKE PLACE TO INSTALL PROPOSED WATERLINES. TEMPORARY SERVICE INTERRUPTIONS WILL BE REQUIRED AT 6402, 6406, AND 6410 ANDERSON AVENUE DURING ON-SITE WATERLINE INSTALL.

AS AN ALTERNATIVE, CONTRACTOR SHALL CONFIRM WITH HOWARD COUNTY BUREAU OF UTILITIES THAT AN INSERTION VALVE CAN BE USED IN PLACE OF SERVICE INTERRUPTIONS. INSERTION VALVE SHALL BE A MUELLER PERMASEAL.



BENCH MARKS (NAD '83)	
HO. CO. #380B STAMPED (BRASS OR ALUMINUM) DISC SET ON TOP OF A CONCRETE COLUMN 1" OR 2" BELOW GRADE N 558,427.282 E 1,386,582.476	ELEV. 192.132
HO. CO. #380E STAMPED (BRASS OR ALUMINUM) DISC SET ON TOP OF A CONCRETE COLUMN 1" OR 2" BELOW GRADE N 557,155.459 E 1,384,992.262	ELEV. 175.228



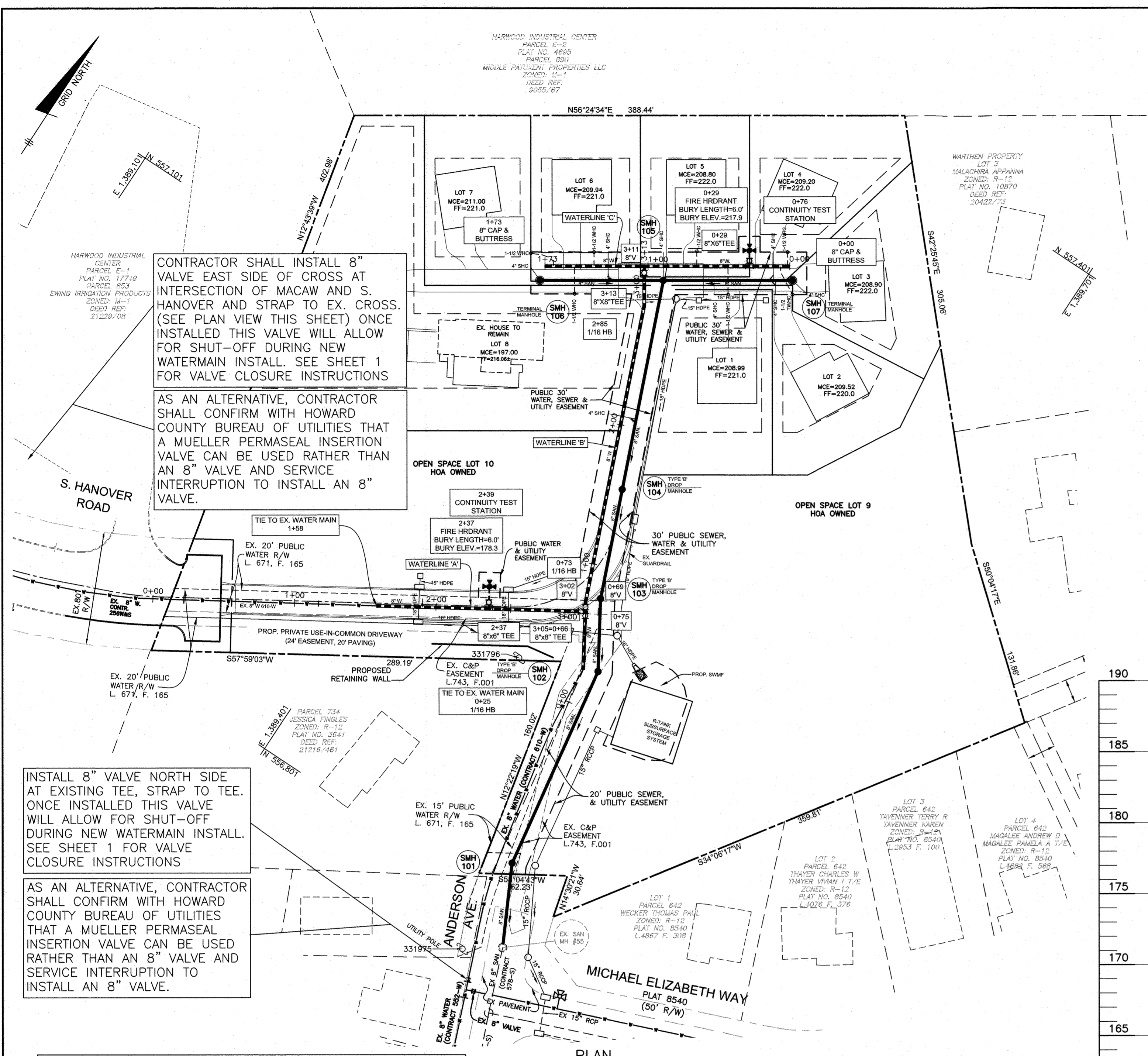
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PUBLIC WATER AND SEWER PLAN AND WATER PROFILES
3	PUBLIC SEWER PROFILES

THIS SHEET REPLACES ORIGINAL SHEET 1 OF 4 CONTRACT NO. 14-5114-D

THE AERIE IN ELKRIDGE  
6399 ANDERSON AVE, HANOVER, MD 21076  
TAX MAP: 38 GRID: 14 PARCEL: 232  
ZONED: R-12 ELECTION DISTRICT: 1  
CONTRACT NO. 14-5114-D

SCALE:  
AS SHOWN  
SHEET NO.  
1 OF 3





CONTRACTOR SHALL INSTALL 8" VALVE EAST SIDE OF CROSS AT INTERSECTION OF MACAW AND S. HANOVER AND STRAP TO EX. CROSS. (SEE PLAN VIEW THIS SHEET) ONCE INSTALLED THIS VALVE WILL ALLOW FOR SHUT-OFF DURING NEW WATERMAIN INSTALL. SEE SHEET 1 FOR VALVE CLOSURE INSTRUCTIONS

AS AN ALTERNATIVE, CONTRACTOR SHALL CONFIRM WITH HOWARD COUNTY BUREAU OF UTILITIES THAT A MUELLER PERMASEAL INSERTION VALVE CAN BE USED RATHER THAN AN 8" VALVE AND SERVICE INTERRUPTION TO INSTALL AN 8" VALVE.

INSTALL 8" VALVE NORTH SIDE AT EXISTING TEE, STRAP TO TEE. ONCE INSTALLED THIS VALVE WILL ALLOW FOR SHUT-OFF DURING NEW WATERMAIN INSTALL. SEE SHEET 1 FOR VALVE CLOSURE INSTRUCTIONS

AS AN ALTERNATIVE, CONTRACTOR SHALL CONFIRM WITH HOWARD COUNTY BUREAU OF UTILITIES THAT A MUELLER PERMASEAL INSERTION VALVE CAN BE USED RATHER THAN AN 8" VALVE AND SERVICE INTERRUPTION TO INSTALL AN 8" VALVE.

LOT	CONNECTION STA.	INV. AT MAIN	SLOPE	TYPE	INVERT AT EASEMENT/ROW	MCE	BASEMENT ELEVATION
1	0+35	205.09	2%	SHC	205.29	208.99	211.00 ±
2	0+80	205.42	2%	SHC	205.62	209.52	210.00 ±
3	SMH-107	205.78	2%	SHC	206.50	208.50	212.00 ±
4	0+77	205.32	2%	SHC	205.72	209.20	212.00 ±
5	SMH-105	205.10	2%	SHC	205.42	208.80	212.00 ±
6	0+50	206.04	2%	SHC	206.24	209.94	211.00 ±
7	SMH-106	207.34	2%	SHC	207.54	211.00	211.00 ±
8	0+50	194.86	2%	SHC	195.26	197.00	197.00(ASSUMED)

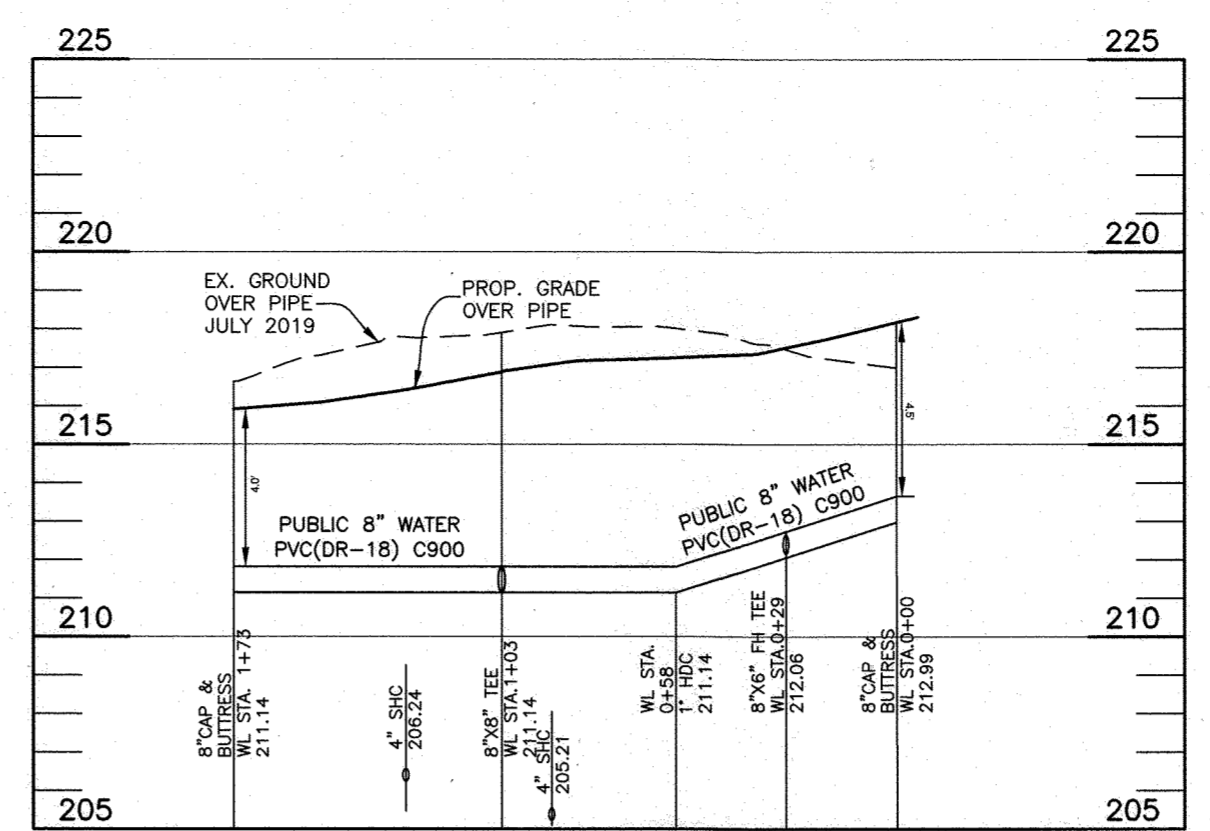
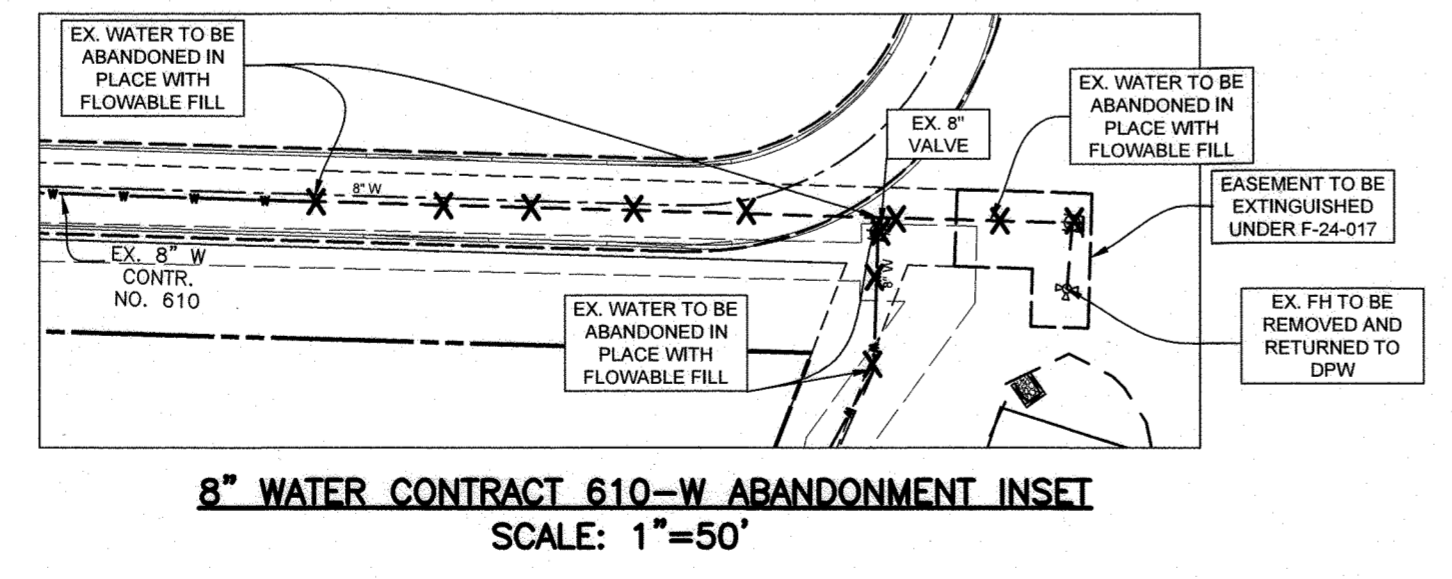
APPURTENANCE	WATERLINE STATION	LOCATION	COMMENT
CONNECT TO 8" W.	1+17	N 556907.22 E 1389376.56	
8"x6" TEE	2+37	N 556971.06 E 1389478.29	
8"x8" TEE	3+05	N 557006.57 E 1389536.34	

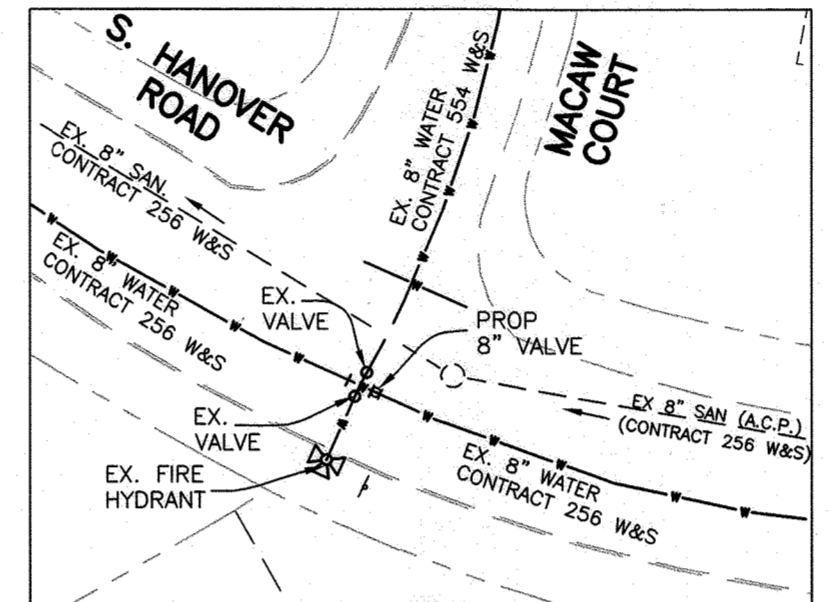
APPURTENANCE	WATERLINE STATION	LOCATION	COMMENT
1/16" HB	0+25	N 556971.61 E 1389557.61	
8"x8" TEE	0+66	N 557006.57 E 1389536.34	CONNECT TO EX. 8" WATER
1/6" HB	0+73	N 557012.60 E 1389532.61	
8" V.	0+75	N 557008.68 E 1389535.04	
1/16" HB	2+85	N 557209.29 E 1389451.77	
8" V.	3+11	N 557232.01 E 1389436.67	
8"x8" TEE	3+13	N 557232.18 E 1389436.57	

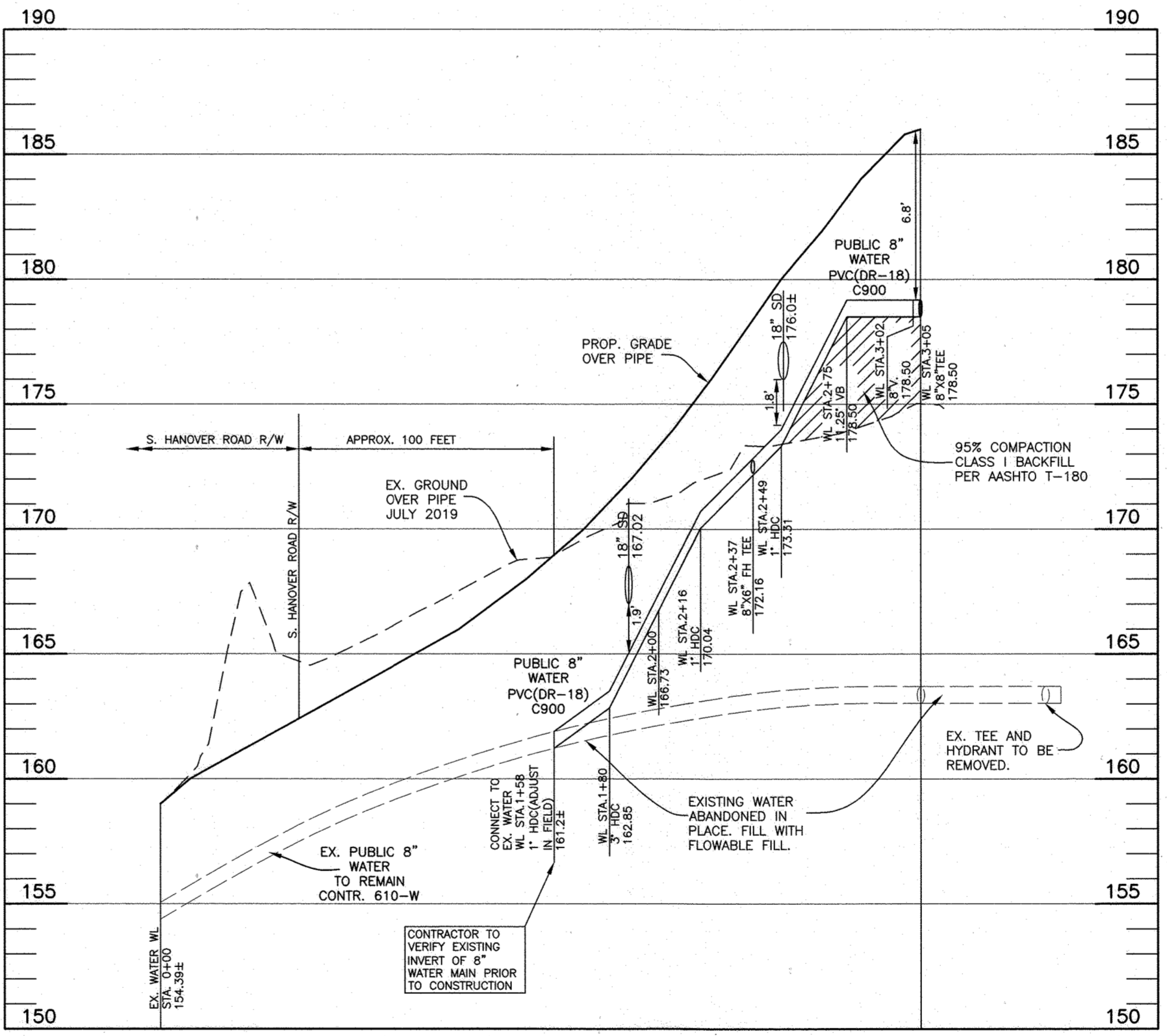
APPURTENANCE	WATERLINE STATION	LOCATION	COMMENT
8"x8" TEE FOR FH	0+29	N 557273.31 E 1389498.50	
8" C&B	0+00	N 557289.02 E 1389522.15	
8"x8" TEE	1+03	N 557232.18 E 1389436.57	
8" C&B	1+73	N 557193.43 E 1389378.24	



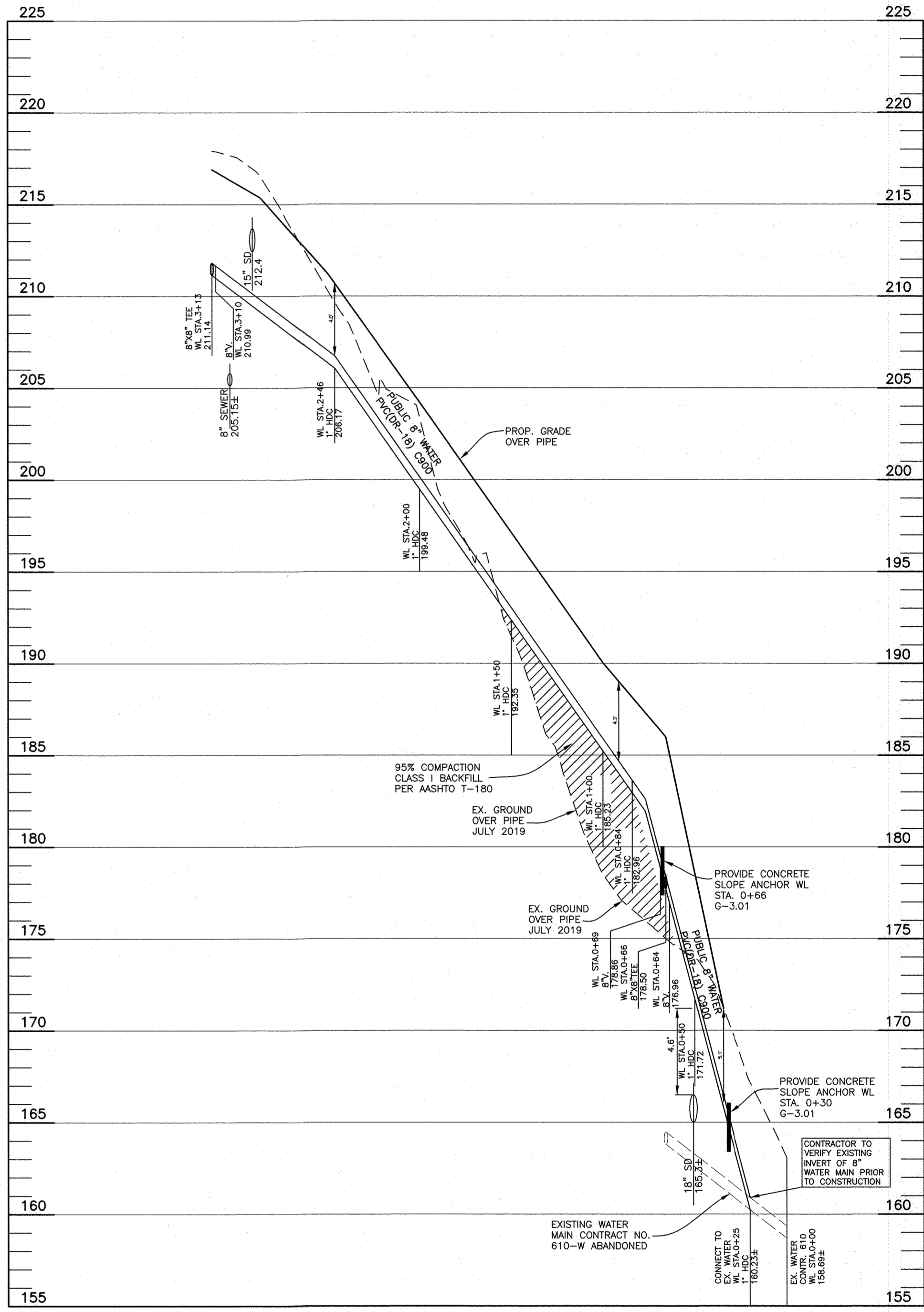
**WATER MAIN 'C' PROFILE**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



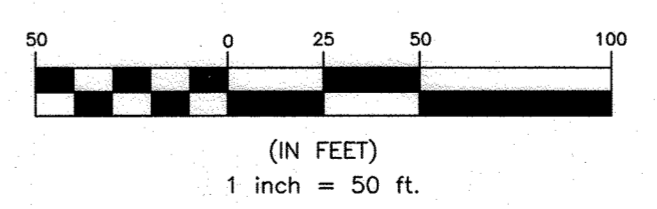
**WATER VALVE PLAN**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



**WATER MAIN 'A' PROFILE**  
**TIE-IN 8" WATER FROM CONTRACT NO. 610-W**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



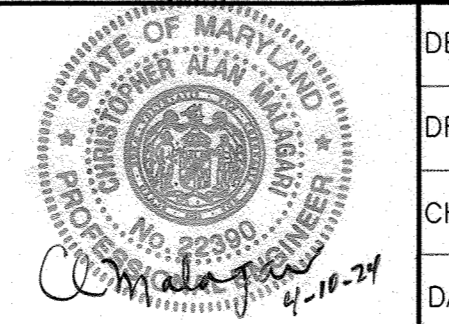
**WATER MAIN 'B' PROFILE**  
**FROM TEE TO PROPOSED LOTS 1-8**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



OWNER:  
TROTTER 5857, LLC,  
1819 PANARAMA CT.  
MCLEAN, VA 22101  
(P) 443-250-1555

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: 06-30-2025.

**BENCHMARK**  
ENGINEERS • LAND SURVEYORS • PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLIOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CIVILENGINEERING.COM



DESIGN:	JCO	DATE:	APRIL 2024
DRAFT:	JCO	BY:	NO.
CHK:	CAM	REVISIONS:	
DATE:	APRIL 2024	DATE:	APRIL 2024
BY:	JCO	REVISIONS:	REVISE WATER & SEWER BASED ON DEVELOPMENT LAYOUT REDESIGN

**PUBLIC WATER AND SEWER PLAN AND WATER PROFILES**  
600 SCALE MAP # 38  
BLOCK: ---

**THIS SHEET REPLACES ORIGINAL SHEET 2 OF 4 CONTRACT NO. 14-5114-D**

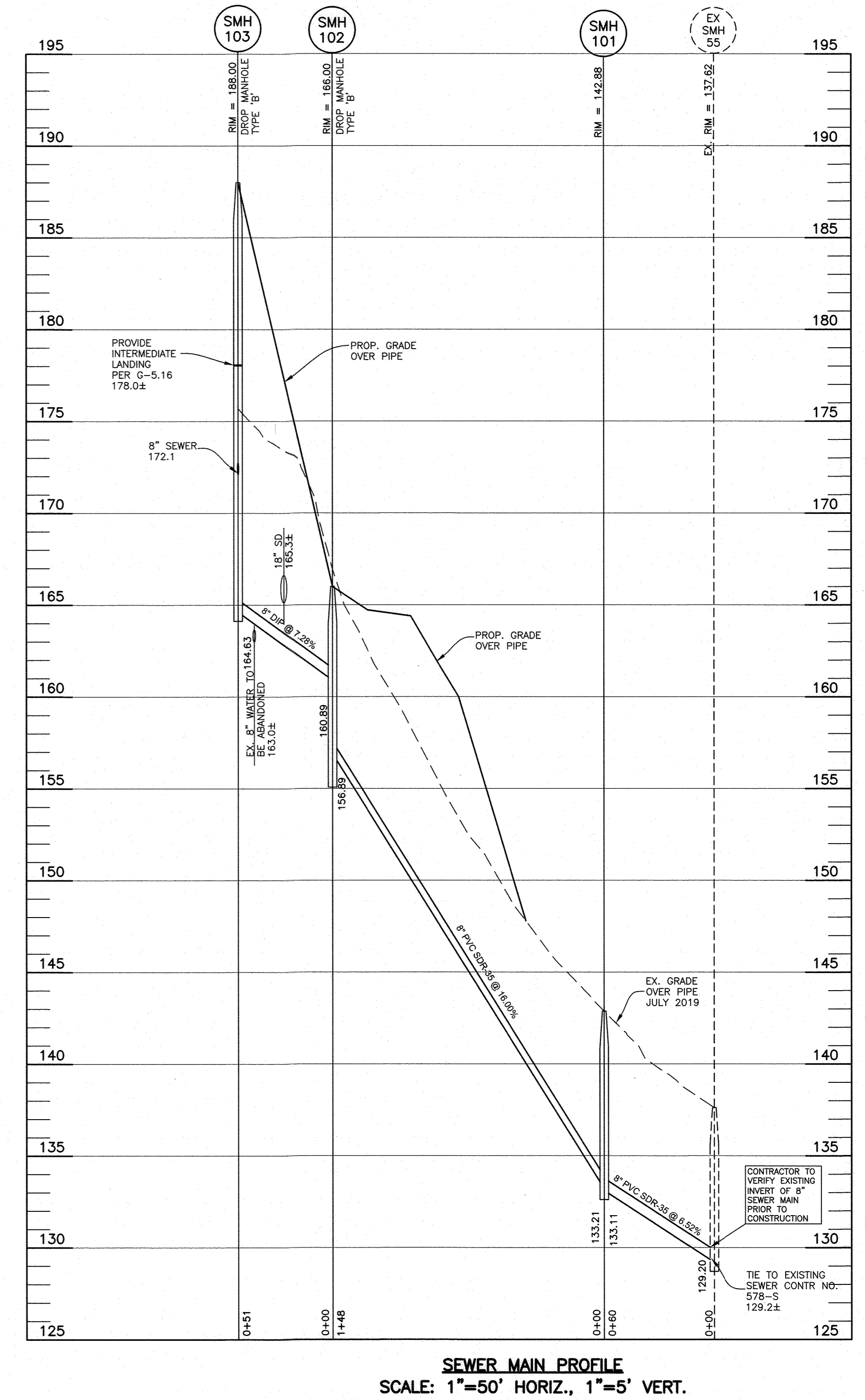
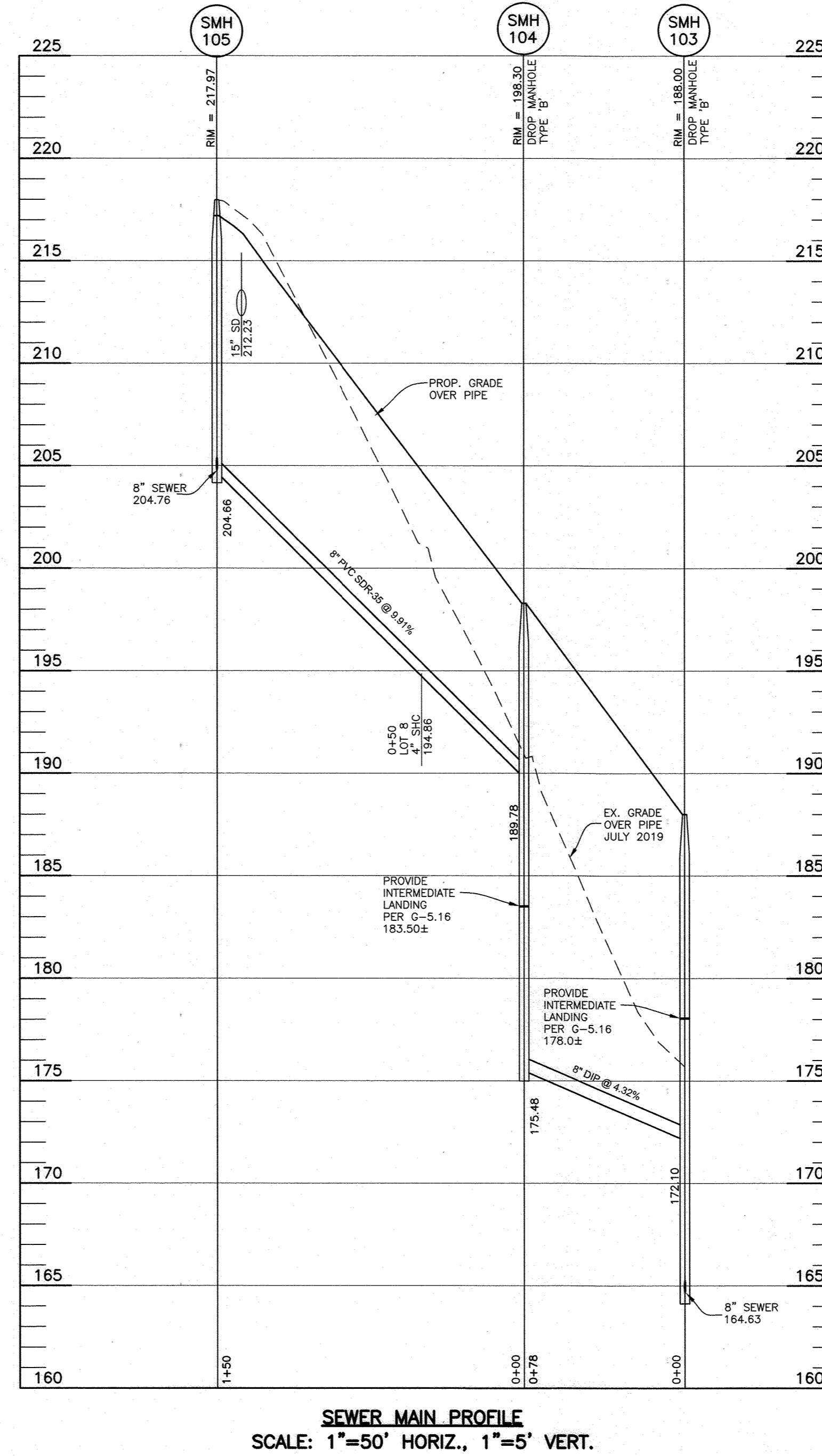
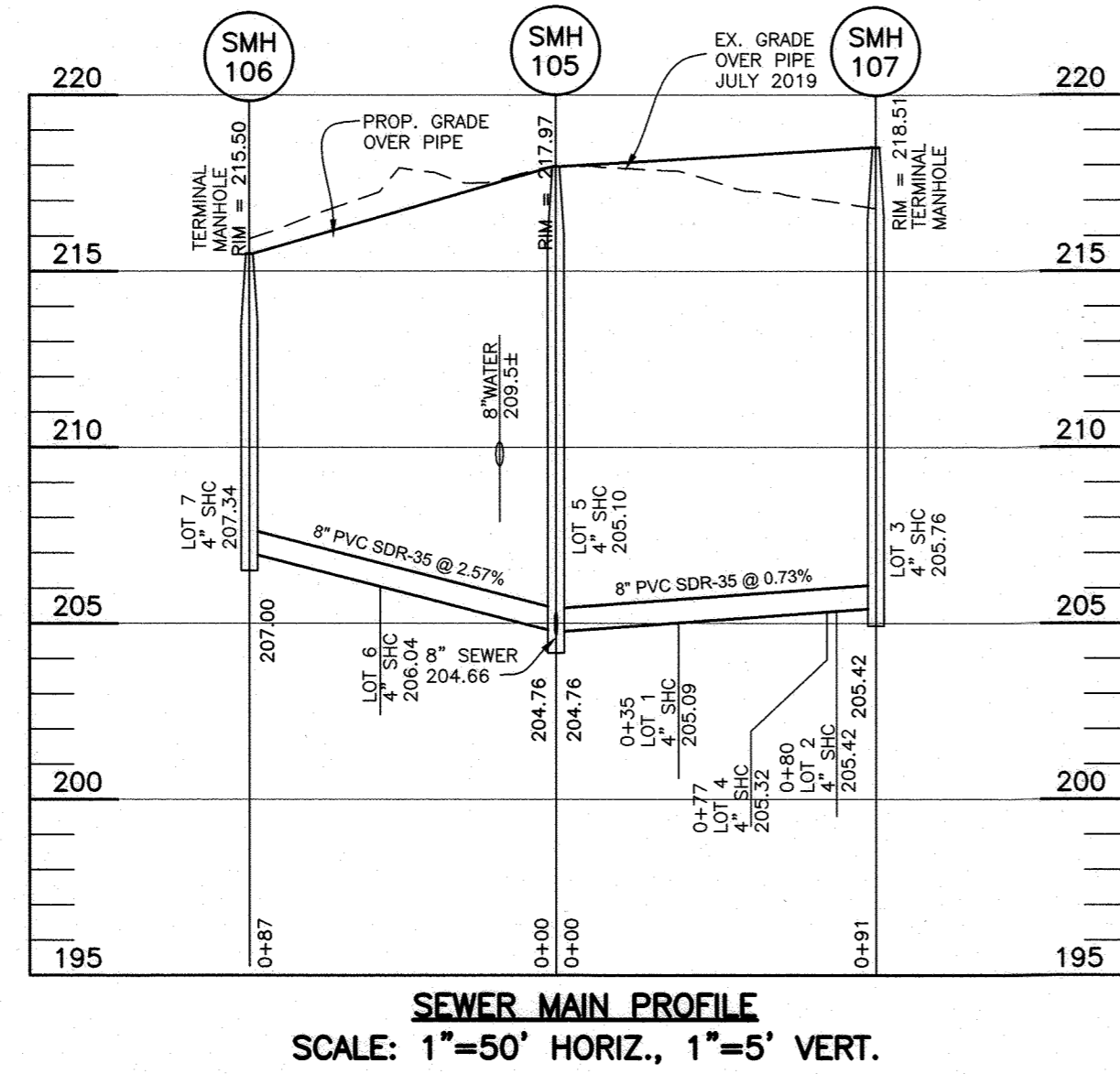
**THE AERIE IN ELKRIDGE**  
6399 ANDERSON AVE, HANOVER, MD 21076  
TAX MAP: 38 GRID: 14 PARCEL: 232  
ZONED: R-12 ELECTION DISTRICT: 1

**CONTRACT NO. 14-5114-D**

SCALE: AS SHOWN  
SHEET NO. 2 OF 3

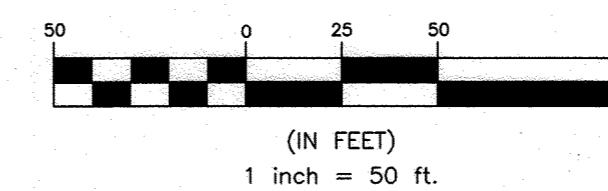


STRUCTURE TABLE									
NUMBER	TYPE	LOCATION	INVERT IN	INVERT OUT	TOP ELEV.	STD. DETAIL	OWNER	REMARKS	
107	48" MH	N 557281.77 E 1389529.31		205.42(8")	218.51	G-5.12	PUBLIC	TERMINAL MANHOLE	
106	48" MH	N 557183.14 E 1389380.81		207.00(8")	215.50	G-5.12	PUBLIC	TERMINAL MANHOLE	
105	48" MH	N 557231.35 E 1389453.40	204.76(8") 204.76(8")	204.66(8")	217.97	G-5.12	PUBLIC		
104	48" MH	N 557092.60 E 1389510.58	189.78(8")	175.48(8")	198.30	S-1.32	PUBLIC	DROP MANHOLE TYPE 'B'	
103	48" MH	N 557020.07 E 1389540.37	172.10(8")	164.63(8")	188.00	S-1.32	PUBLIC	DROP MANHOLE TYPE 'B'	
102	48" MH	N 556976.29 E 138957.16	160.89(8")	156.89(8")	166.00	S-1.32	PUBLIC	DROP MANHOLE TYPE 'B'	
101	48" MH	N 556830.25 E 1389591.27	133.21(8")	133.11(8")	142.88	G-5.12	PUBLIC		



OWNER:  
TROTTER 5857, LLC,  
1819 PANARAMA CT,  
MCCLEAN, VA 22101  
(P) 443-250-1555

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: 06-30-2025



**THIS SHEET REPLACES ORIGINAL SHEET 2 OF 3 CONTRACT NO. 14-5114-D**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, BUREAU OF UTILITIES  
DATE: 4/17/2024

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 4.20.24

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS • LAND SURVEYORS • PLANNERS  
8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BE-CIVILENGINEERING.COM

*[Professional Seal]*  
Professional Seal of the State of Maryland, License No. 22390, Expiration Date: 06-30-2025

DESIGN:	JCO
DRAFT:	JCO
CHK:	CAM
DATE:	APRIL 2024
BY:	JCO
NO.:	1
REVISIONS:	REVISE WATER & SEWER BASED ON DEVELOPMENT LAYOUT REDESIGN
DATE:	APRIL 2024

**PUBLIC SEWER PROFILES**

600 SCALE MAP #38

**THE AERIE IN ELKRIDGE**  
6399 ANDERSON AVE, HANOVER, MD 21076  
TAX MAP: 38 GRID: 14 PARCEL: 232  
ZONED: R-12 ELECTION DISTRICT: 1  
**CONTRACT NO. 14-5114-D**

SCALE:  
AS SHOWN

SHEET NO.  
3 OF 3