

GENERAL NOTES

- PART I**
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND CONVEYS 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 VOGEL ENGINEERING + TIMMONS GROUP, DATED OCTOBER 2020. ADDITIONAL EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY GIS AND AVAILABLE RECORD DRAWINGS.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS, COORDINATES AND ELEVATIONS ARE BASED ON MARYLAND COORDINATE SYSTEM - NAD83 (1991) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 306A AND NO. 36AA.
 - THE PROJECT BOUNDARY SHOWN HEREON ARE BASED ON A SURVEY BY VOGEL ENGINEERING + TIMMONS GROUP DATED OCTOBER 2020.
 - 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 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:
 AT&T 1-800-252-1133
 BGE (CONTRACTOR SERVICE) 410-637-8713
 BGE (EMERGENCY) 410-685-0123
 BUREAU OF UTILITIES 410-313-4900
 COLONIAL PIPELINE CO 410-795-1390
 MGS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-531-5533
 VERIZON 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.
 - 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(G) OF THE HOWARD COUNTY CODE.

- PART II - WATER**
- ALL WATER MAINS TO BE C900 PVC-DR-18 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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 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 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 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 PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
 - UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES, SHALL BE INSTALLED ON 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 MAINS SHALL BE DUCTILE IRON.
 - 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 INSERTION LINES SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE 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 DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ON FULL PIPE LENGTH (60-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 COMPACTOR 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 8-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED 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 (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 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.

- 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 WATERTIGHT FRAME AND COVERS, STANDARD DETAIL GS.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 DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Alexander Botchie 08/11/21
 SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-21-030

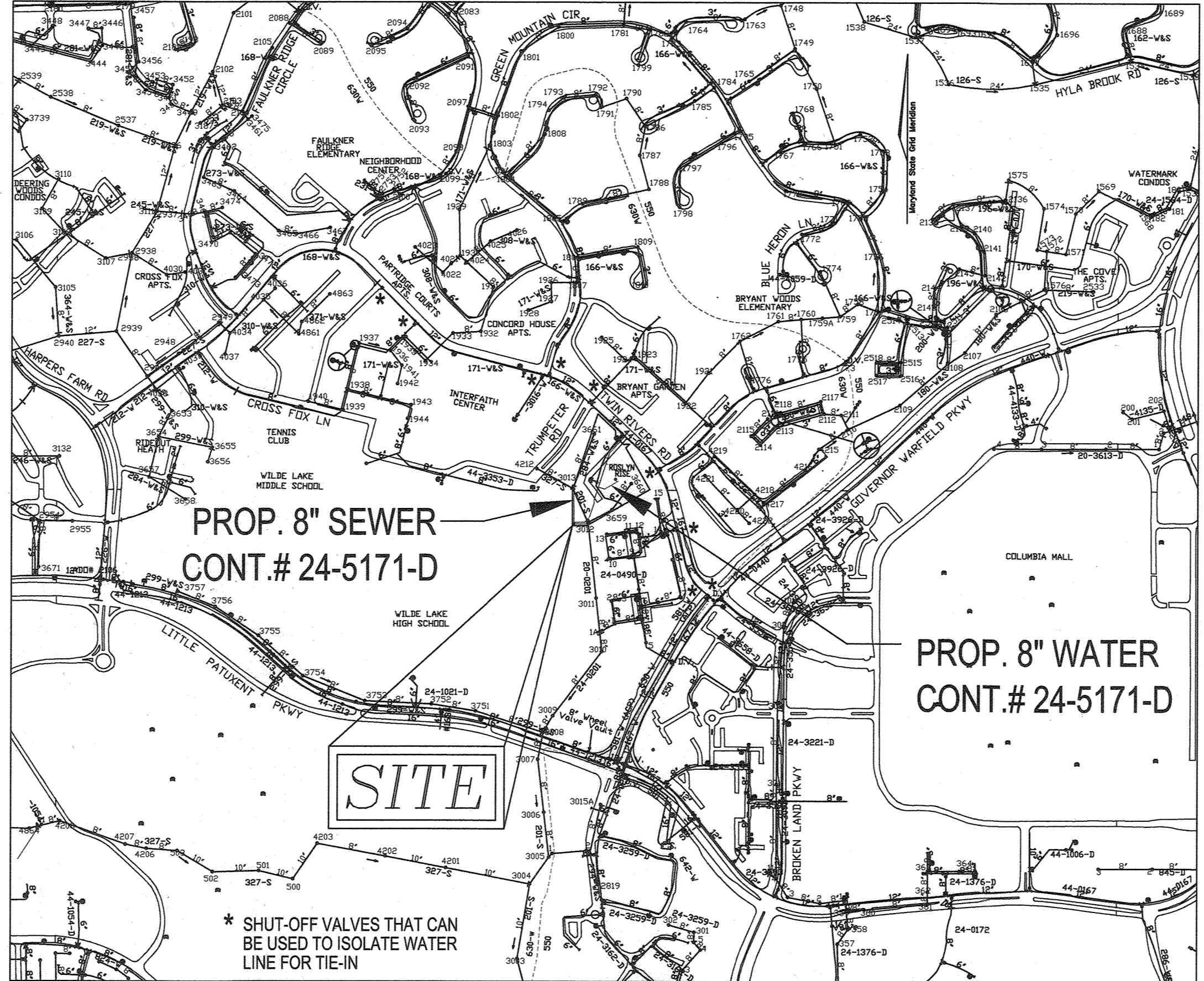
FINAL WATER AND SEWER CONSTRUCTION PLAN

ROSLYN RISE

153 APARTMENT UNITS

CONTRACT # 24-5171-D

HOWARD COUNTY, MARYLAND



LOCATION MAP
 SCALE: 1"=600'

WATER ZONE: 630-W
 TEST PRESSURE: 211.11 PSI
 TEST GRADIENT: .907

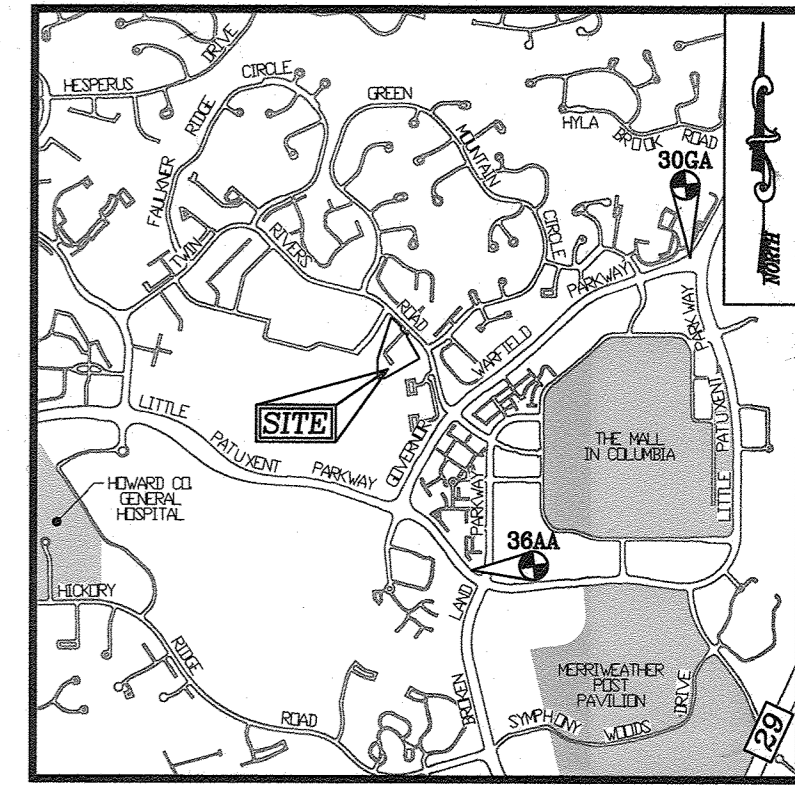
TYPE OF BUILDING :	RESIDENTIAL (APARTMENTS)
NO. OF LOTS/PARCELS :	1
NO. OF BUILDINGS :	2
NO. OF APARTMENT UNITS :	153
NO. OF SINGLE WATER HOUSE CONNECTIONS :	2 (6")
NO. OF TWIN WATER HOUSE CONNECTIONS :	0
NO. OF SEWER HOUSE CONNECTIONS :	4
DRAINAGE AREA:	LITTLE PATUXENT RIVER

- FIRE NOTE:**
- 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 CONNECTION;
 III. A FREE-STANDING FIRE DEPARTMENT CONNECTION SHALL HAVE THE SIGN MOUNTED ON A POLE DIRECTLY BEHIND THE CONNECTION APPROXIMATELY 8 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 NOT LESS THAN 2". THE OVERALL SIGN MEASUREMENTS SHALL BE 12" BY 18";
 V. ANY OBSTRUCTION OR CONDITION THAT OBSCURES OR HINDERS ACCESS TO A FDC IS PROHIBITED. A MINIMUM CLEAR SPACE OF 15 FEET (7.5 FEET ON ALL SIDES) SHALL BE MAINTAINED.
- WAIVER DMV2-21-011 NOTES:**
- REF: DMV2-21-011 - WATER REQUEST NO. 1, TO WAIVE SECTION 3.3.B.2.b.1 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME II - WATER AND SEWER (DMV2), TO ALLOW A NON-LOOPED 8-INCH WATER MAIN TO SERVE THE SUBJECT-REFERENCED PROPERTY. THE REQUEST TO WAIVE THE LOOPING REQUIREMENT IS DENIED, IN LIEU OF THE PROVIDING THE WATER MAIN LOOP, A PUBLIC WATER AND UTILITY EASEMENT WITH 8" WATER MAIN SHALL BE EXTENDED TO THE BOUNDARY OF THE PROPERTY (WILDE LAKE HIGH SCHOOL), WITH THE REMAINING WATER MAIN LOOP TO BE CONSTRUCTED BY OTHERS.
 - REF: DMV2-21-011 - WATER REQUEST NO. 2, APPROVED MAY 13, 2021 TO WAIVE SECTION 5.4.B.2 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME II - WATER AND SEWER (DMV2), ALLOWING APPROXIMATELY 90 FEET OF THE PUBLIC SEWER AND UTILITY EASEMENT BETWEEN PROPOSED MANHOLES MH-102 AND MH-103 TO HAVE THE REQUIRED 10-FOOT SETBACK REDUCED TO BETWEEN 3.6' AND 6.6'.

BENCHMARKS

HOWARD COUNTY BENCHMARK - 306A (CONC. MONUMENT)
 N 566,063.579 E 1,352,177.604 ELEV. 339.894
 LOCATION: COR. GOV. WARFIELD PKWY & LITTLE PATUXENT PKWY

HOWARD COUNTY BENCHMARK - 36AA (CONC. MONUMENT)
 N 562,804.842 E 1,349,906.240 ELEV. 359.163
 LOCATION: COR. LITTLE PATUXENT PKWY & BROKEN LAND PKWY



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP 49.35 - GRIDS A5 & A6

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET & LOCATION MAP	1 OF 3
LAYOUT PLAN	2 OF 3
WATER AND SEWER PROFILES	3 OF 3

QUANTITIES

NAME OF UTILITY CONTRACTOR : SEH CONTRACTORS, INC.
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE :

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
PUBLIC WATER				
8" WATER PVC C-900 (DR-18)	743 LF	743	C900	WEST LAKE
8" WATER PVC C-900 (DR-18)	20 LF	20	C900	WEST LAKE
6" WATER - DIP (FH)	42 LF	42	DIP	AMERICAN DUCTILE IRON PIPE
12" x 8" TEE	1 EA	1	DUCTILE	TYLER UNION
8" x 8" TEE	1 EA	1	DUCTILE	TYLER UNION
8" x 6" TEE	2 EA	2	DUCTILE	TYLER UNION
8" VALVE	4 EA	4	DUCTILE	MUELLER CO.
8" VALVE	2 EA	2	DUCTILE	MUELLER CO.
8" 1/8" HB	2 EA	2	DUCTILE	TYLER UNION
8" 1/8" HB	4 EA	4	DUCTILE	TYLER UNION
8" - 5" SWEEP	1 EA	1	DUCTILE	TYLER UNION
8" - VERT. COUPLING	2 EA	2	DUCTILE	MUELLER CO.
FIRE HYDRANT, FH TEE & VALVE	3 EA	3	DUCTILE	TYLER UNION
8" CAP AND BUTTRESS	2 EA	2	DUCTILE	TYLER UNION
8" CAP AND BUTTRESS	2 EA	2	DUCTILE	TYLER UNION
PUBLIC SEWER				
8" PVC SEWER	284 LF	284	SDR 35	NATIONAL CONTRACTORS PRECAST
STANDARD MANHOLE	2 EA	2	CONC	CONTRACTORS PRECAST
DOGHOUSE MANHOLE	1 EA	1	CONC	CONTRACTORS PRECAST

LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- EXISTING EDGE OF PAVING
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING MAILBOX
- EXISTING SIGN
- EXISTING CLEANOUT
- EXISTING STORM DRAIN
- EXISTING STORM DRAIN INLET
- EXISTING FENCE
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY LINE
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE
- PUBLIC WATER MAIN
- FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED TEE
- PRIVATE WATER MAIN
- PROPOSED SEWER MANHOLE
- PUBLIC SEWER MAIN
- PRIVATE SEWER MAIN
- PROPOSED SEWER CLEANOUT
- TO BE REMOVED

OWNER/DEVELOPER
 94 UNIT BUILDING 2: ROSLYN RISE FOUR, LLC
 59 UNIT BUILDING 1: ROSLYN RISE NINE, LLC
 C/O MACKENZIE KIESEL
 875 HOLLIS STREET, SUITE 202
 BALTIMORE, MD 21201
 (410) 230-2117

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature] 8-21
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
[Signature] 8-18-21
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

VOGEL ENGINEERING

TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21143
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

STATE OF MARYLAND
 ROBERT HARRIS BOYLE
 PROFESSIONAL ENGINEER
 No. 16183
 7/20/21
 ROBERT H. VOGEL, PE, No. 16183

PROFESSIONAL CERTIFICATE
 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. 16183, EXPIRATION DATE: 09-21-2022.

DES: ACS	
DRN: ACS	
CHK: RHV	1
DATE: JULY 2021	NO.
	REVISION
	DATE

FINAL WATER AND SEWER CONSTRUCTION PLAN
CONTRACT 24-5171-D
COVER SHEET

ROSLYN RISE
 VILLAGE OF WILDE LAKE, SEC. 10, AREA 4, LOT 2
 COLUMBIA, MD 21044

SCALE AS SHOWN
 SHEET 1 OF 3

TAX MAP 30, BLOCK 19
 5TH ELECTION DISTRICT
 LOT 2 / PARCEL 272
 HOWARD COUNTY, MARYLAND

PUBLIC WATER MAIN LOCATION CHART PROP. WATER MAIN 'A'			
WL STA.	APPURTENANCE	NORTHING	EASTING
0+0.00	12"x8" TEE	565,304.12	1,349,214.71
0+04.00	8" VALVE	565,301.16	1,349,212.01
0+14.52	8" - VERTICAL COUPLING		
0+31.23	8"x6" F.H.T. & VALVE	565,281.06	1,349,193.64
1+28.81	8" - 1/16 HORIZONTAL BEND	565,209.02	1,349,127.82
1+61.23	8"x6" TEE & VALVE	565,178.21	1,349,117.74
1+92.99	8"x6" TEE & VALVE	565,148.02	1,349,107.85
2+34.68	8" - VERTICAL COUPLING		
3+07.28	8"x6" F.H.T. & VALVE	565,039.41	1,349,072.29
3+30.24	8"x8" TEE	565,017.59	1,349,065.15
3+34.24	8" VALVE	565,013.79	1,349,063.9
4+09.68	8" - 1/16 HORIZONTAL BEND	564,942.09	1,349,040.43
4+24.62	8" - 1/16 HORIZONTAL BEND	564,927.19	1,349,041.57
5+08.46	8" - 1/16 HORIZONTAL BEND	564,847.52	1,349,015.48
5+47.50	8" - 1/8 HORIZONTAL BEND	564,818.91	1,348,988.91
5+78.83	8" - 5' VERTICAL SWEEP		
6+12.78	8" VALVE	564,818.79	1,348,923.63
6+16.78	8" CAP & BUTTRESS	564,818.78	1,348,919.63

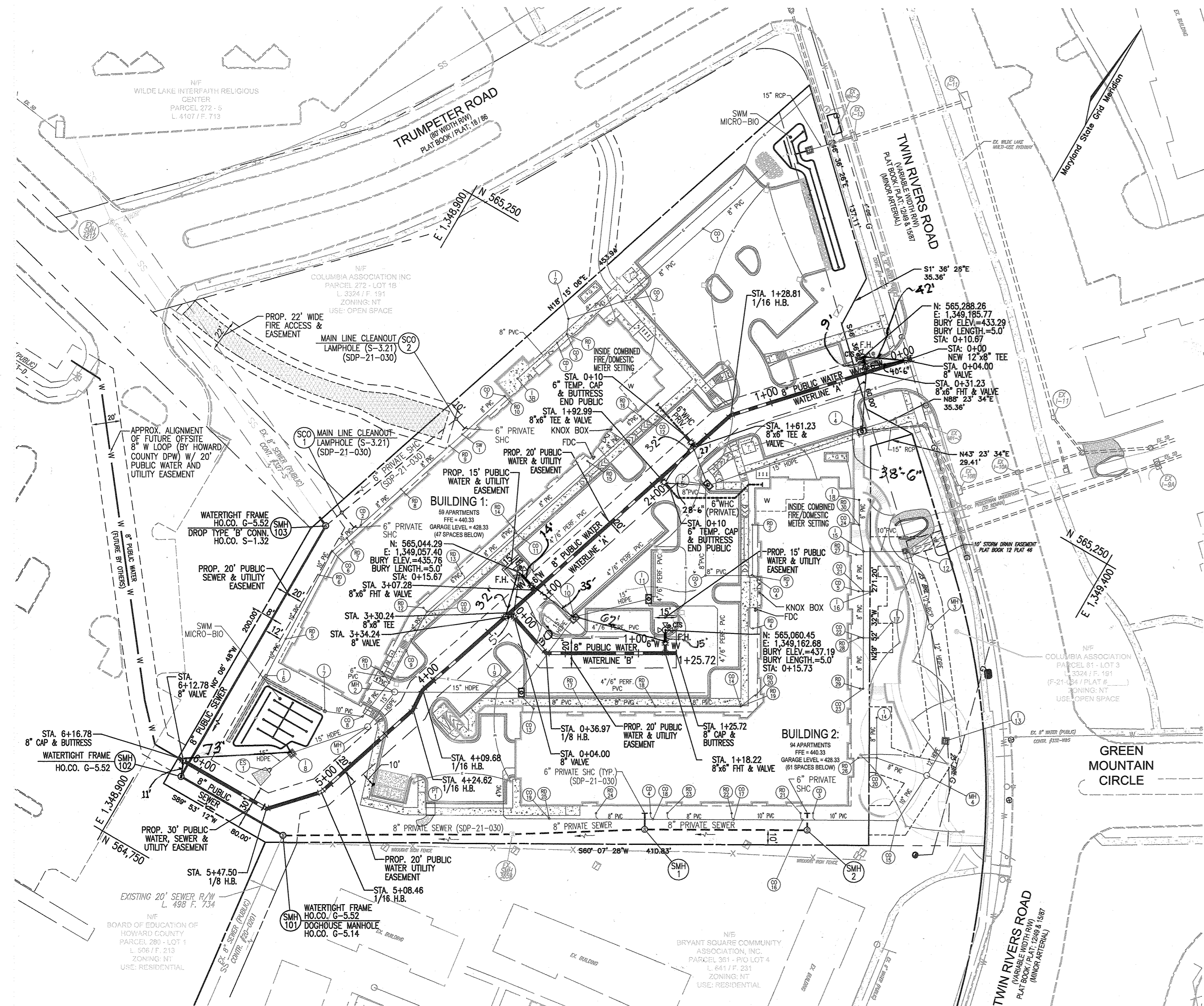
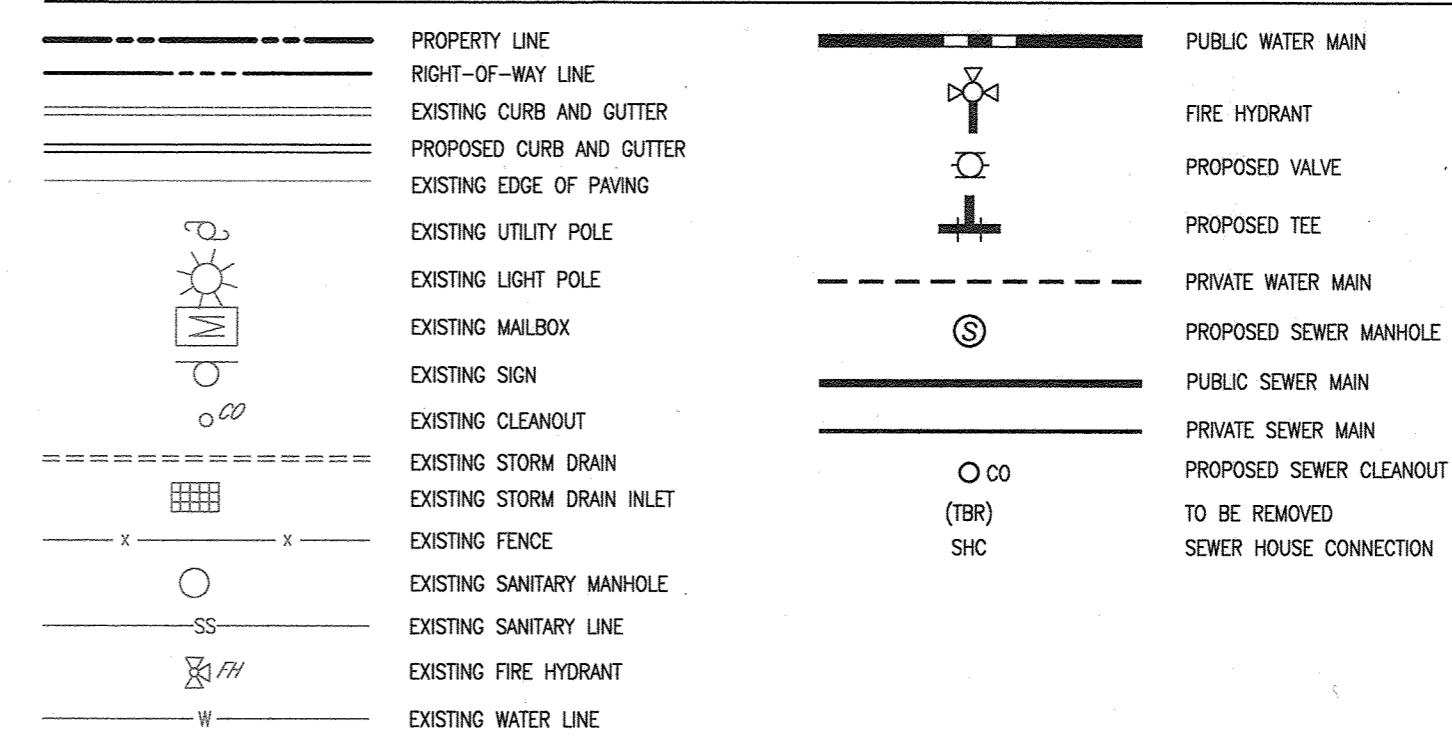
PUBLIC WATER MAIN LOCATION CHART PROP. WATER MAIN 'B'			
WL STA.	APPURTENANCE	NORTHING	EASTING
0+0.00	8"x8" TEE	565,017.59	1,349,065.15
0+04.00	8" VALVE	565,016.34	1,349,068.95
0+36.97	8" - 1/8 HORIZONTAL BEND	565,006.08	1,349,100.28
1+18.22	8"x6" F.H.T. & VALVE	565,046.84	1,349,170.57
1+25.72	8" CAP & BUTTRESS	565,050.60	1,349,177.06

PUBLIC MANHOLE LOCATION CHART			
MANHOLE NO.	NORTHING	EASTING	TOP ELEV.
101	564,808.95	1,349,007.81	424.85
102	564,808.79	1,348,927.65	427.00
103	565,005.29	1,348,927.27	436.30

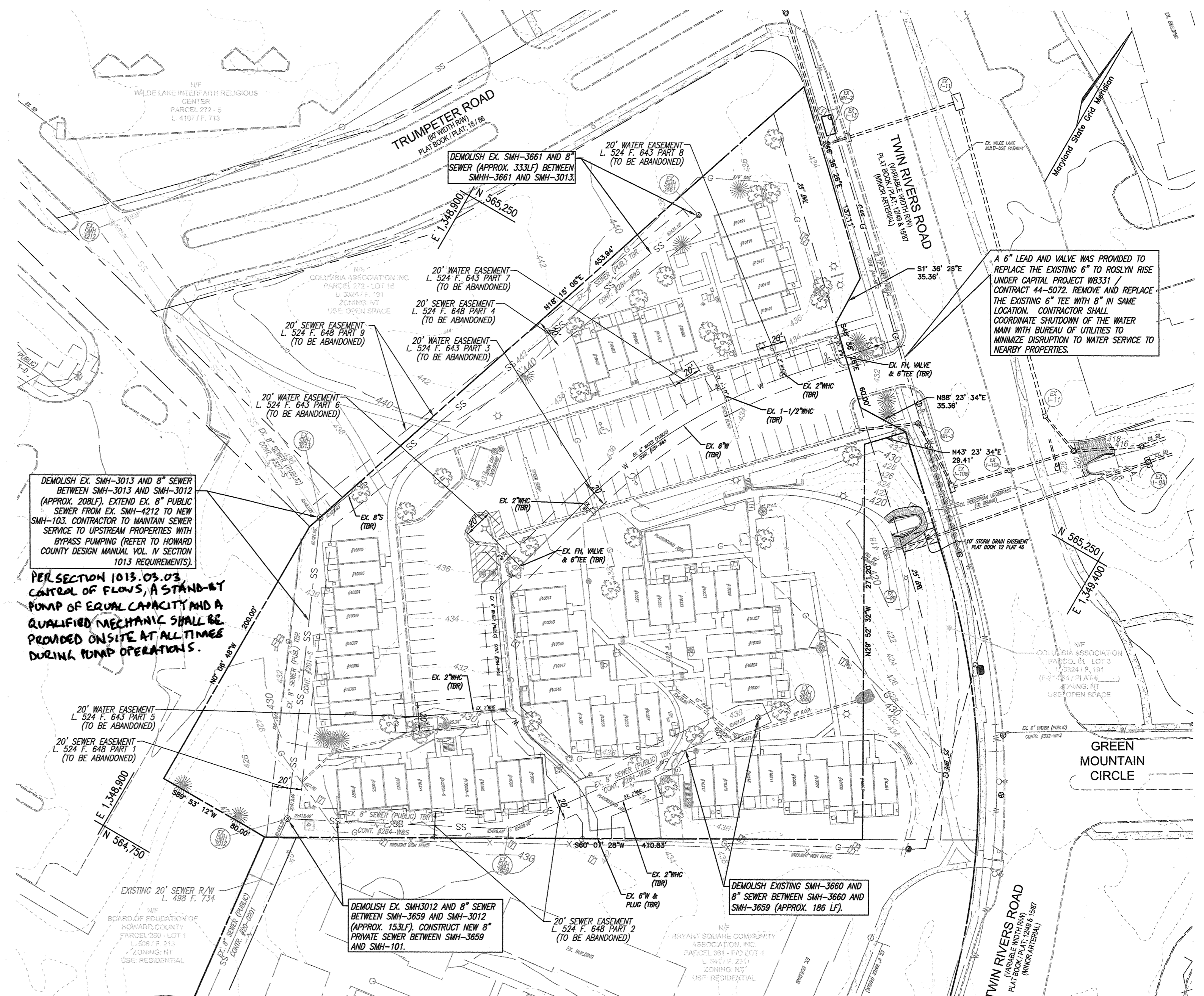
WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
UNIT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
BUILDING 1	10401 TWIN RIVERS ROAD		
BUILDING 2	10351 TWIN RIVERS ROAD		

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
UNIT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
BUILDING 1 (TO SCO-1)	10401 TWIN RIVERS ROAD		
BUILDING 1 (TO SCO-2)	10401 TWIN RIVERS ROAD		
BUILDING 2 (TO SMH-1)	10351 TWIN RIVERS ROAD		
BUILDING 2 (TO SMH-2)	10351 TWIN RIVERS ROAD		

LEGEND:



WATER AND SEWER LAYOUT PLAN
SCALE 1"=50'



WATER AND SEWER DEMO PLAN
SCALE 1"=50'

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

Alondra Botchev
SOIL CONSERVATION DISTRICT

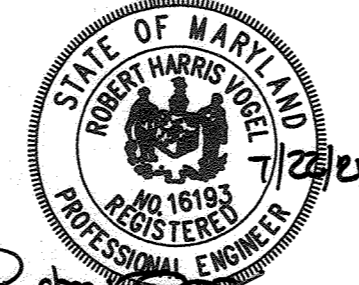
08/11/21
DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-21-030

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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



PROFESSIONAL CERTIFICATE
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. 16193, EXPIRATION DATE: 09-27-2022

DES: ACS
DRN: ACS
CHK: RHV
DATE: JULY 2021

NO. 1
WRA AS-BUILT
REVISION

FINAL WATER AND SEWER CONSTRUCTION PLAN
CONTRACT 24-5171-D
LAYOUT PLAN

OWNER/DEVELOPER
94 UNIT BUILDING 2: ROSLYN RISE FOUR, LLC
59 UNIT BUILDING 1: ROSLYN RISE NINE, LLC
C/O MACKENZIE KIESEL
875 HOLLIS STREET, SUITE 202
BALTIMORE, MD 21201
(410) 230-2117

ROSLYN RISE
VILLAGE OF WILDE LAKE, SEC. 10, AREA 4, LOT 2
COLUMBIA, MD 21044

SCALE AS SHOWN

SHEET 2 OF 3

Robert H. Vogel
CHIEF, BUREAU OF UTILITIES

Alondra Botchev
CHIEF, DEVELOPMENT ENGINEERING DIVISION

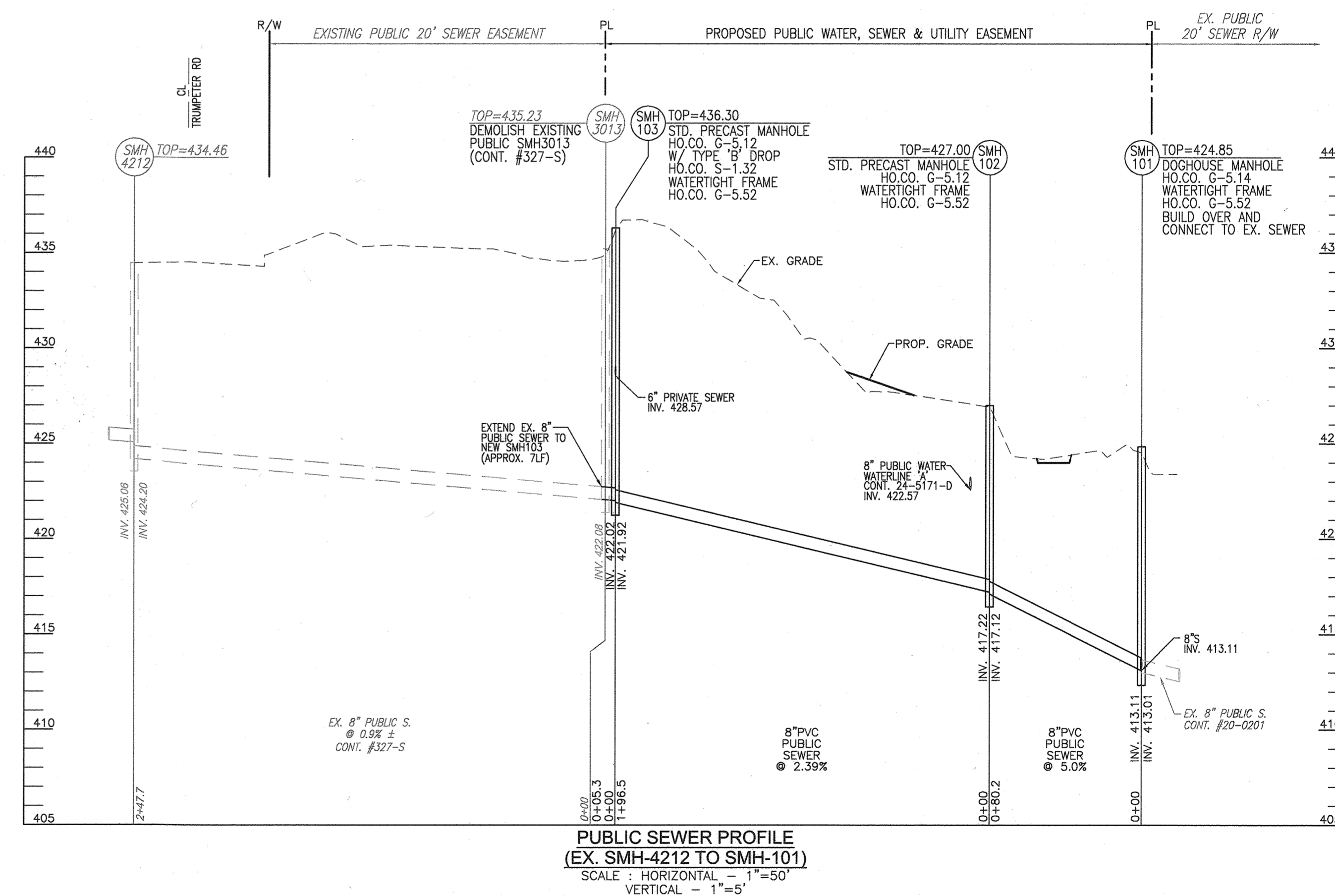
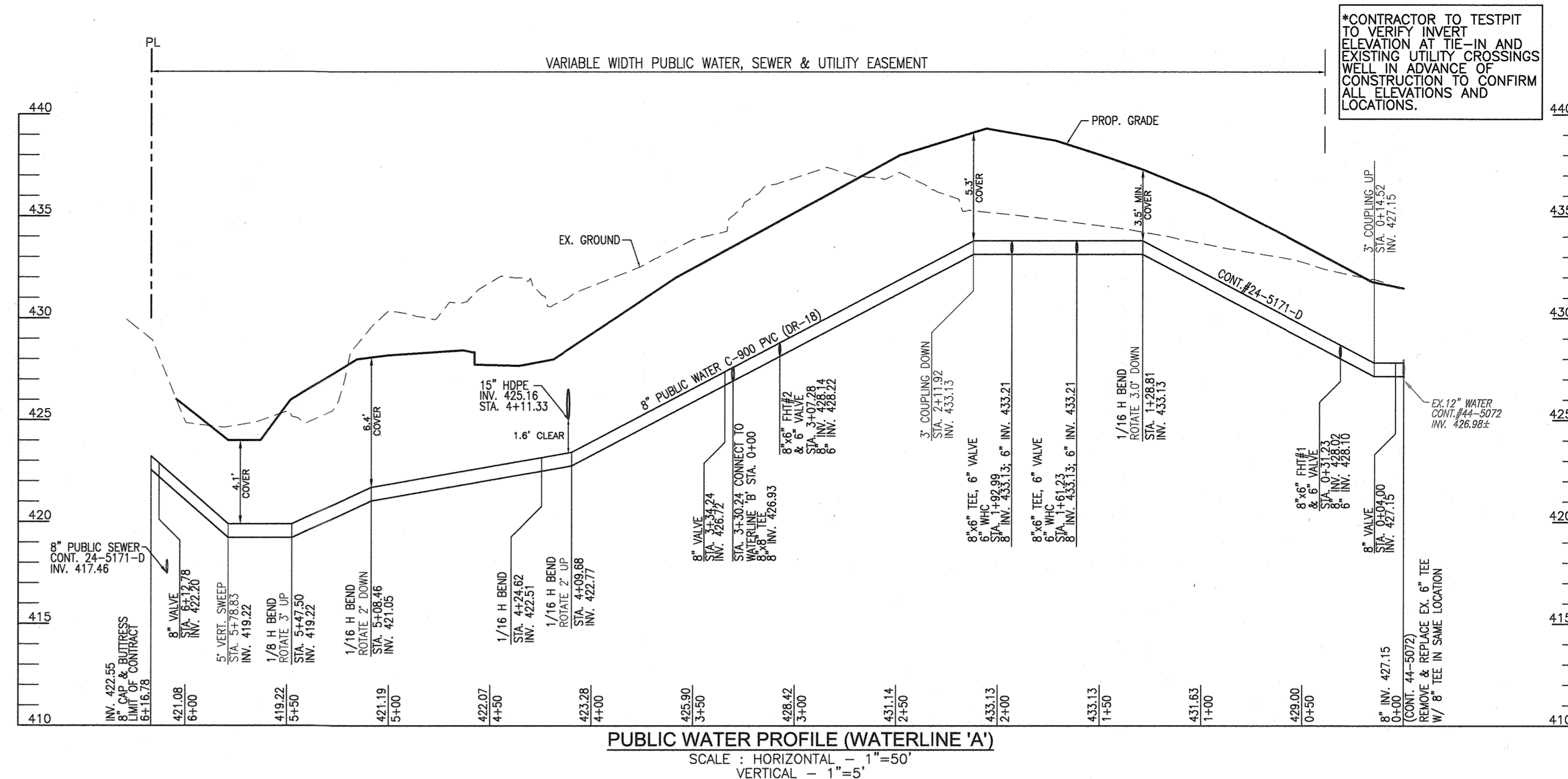
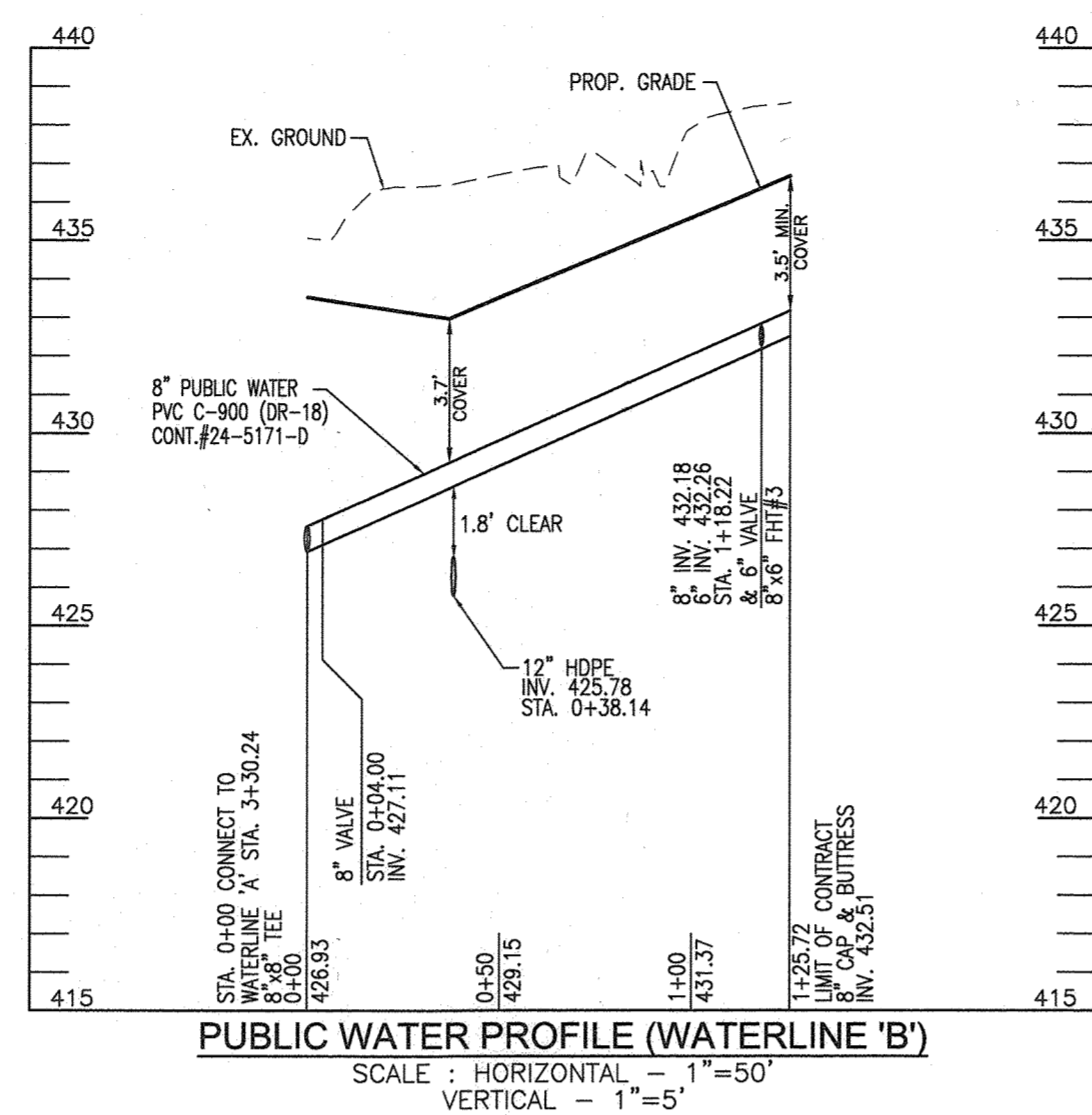
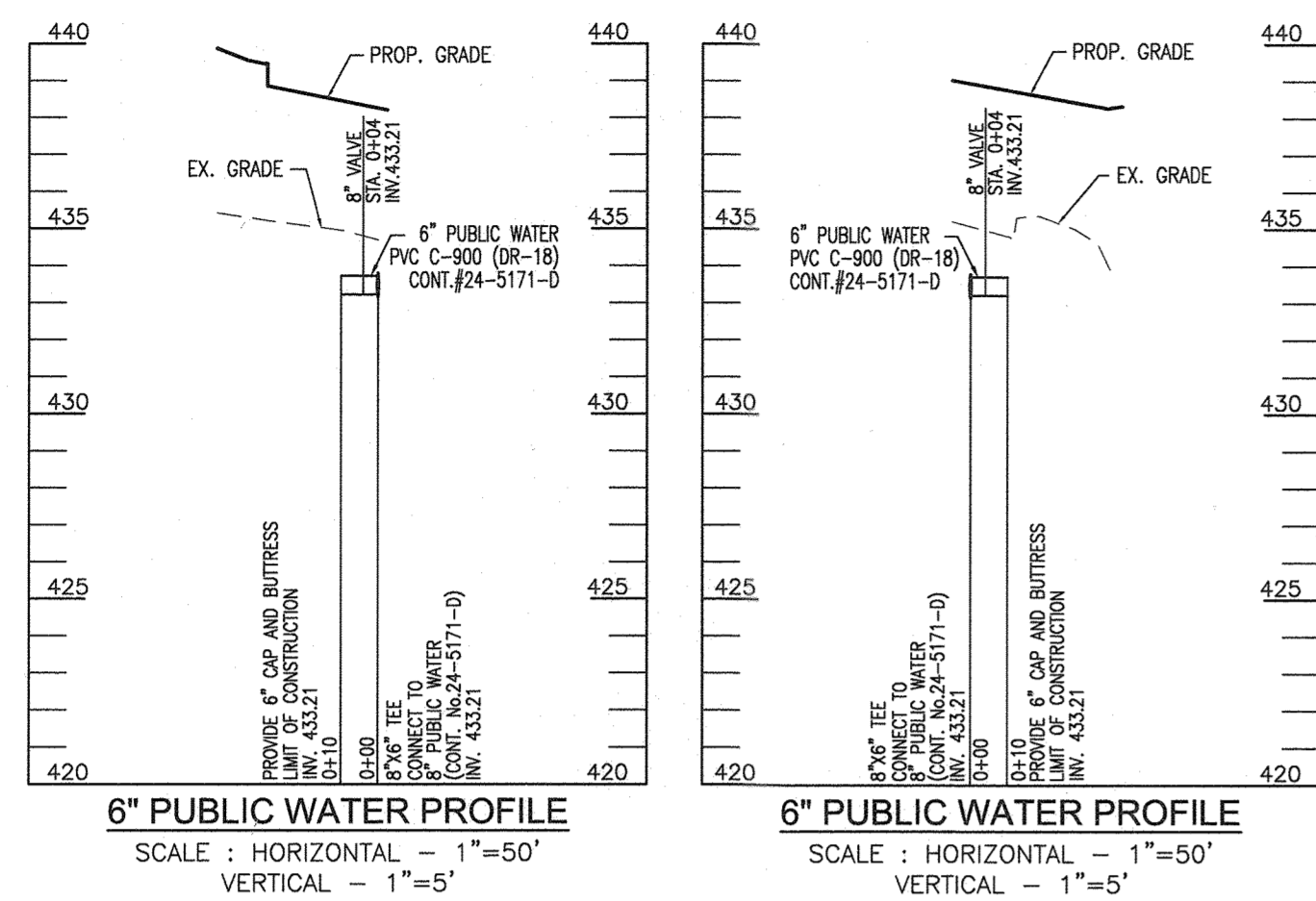
08/10/21
DATE

DATE: JULY 2021 NO. 1 REVISION DATE: 6/25/24

600' SCALE MAP NO. 30 BLOCK NO. 19

TAX MAP 30, BLOCK 19 5TH ELECTION DISTRICT

LOT 2 / PARCEL 272 HOWARD COUNTY, MARYLAND



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

Alexandra Butcher
SOIL CONSERVATION DISTRICT

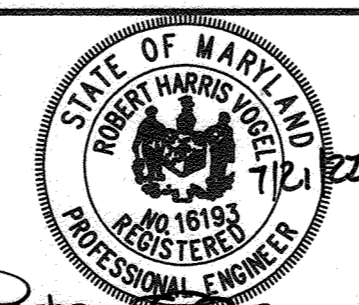
08/11/21
DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-21-030

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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



PROFESSIONAL CERTIFICATE
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. 16193
EXPIRATION DATE 09-31-2022

DES: ACS
DRN: ACS
CHK: RHV

DATE: JULY 2021 NO. REVISION DATE

**FINAL WATER AND SEWER
CONSTRUCTION PLAN
CONTRACT 24-5171-D
WATER AND SEWER PROFILES**

OWNER/DEVELOPER
94 UNIT BUILDING 2: ROSLYN RISE FOUR, LLC
59 UNIT BUILDING 1: ROSLYN RISE NINE, LLC
C/O MACKENZIE KIESEL
875 HOLLANS STREET, SUITE 202
BALTIMORE, MD 21201
(410) 230-2117

ROSLYN RISE
VILLAGE OF WILDE LAKE, SEC. 10, AREA 4, LOT 2
COLUMBIA, MD 21044

SCALE
AS
SHOWN

SHEET
3 OF 3

CHIEF, BUREAU OF UTILITIES

CHIEF, DEVELOPMENT ENGINEERING DIVISION

8.18.21
DATE

DATE: JULY 2021 NO. REVISION DATE

DATE: JULY 2021 NO. REVISION DATE

600' SCALE MAP NO. 30 BLOCK NO. 19

TAX MAP 30, BLOCK 19 5TH ELECTION DISTRICT LOT 2 / PARCEL 272 HOWARD COUNTY, MARYLAND