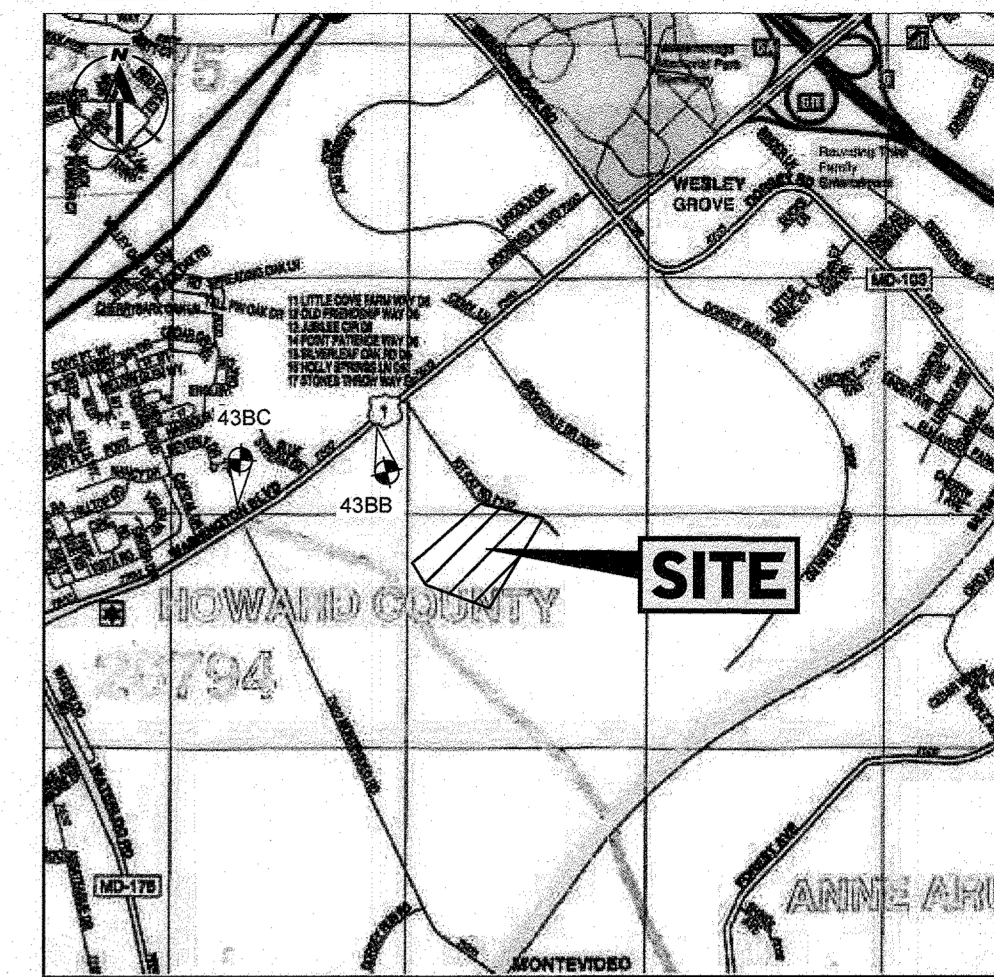


GRAND VIEW - KIT KAT FINAL PUBLIC WATER PLAN

LOCATION OF SITE

7130 & 7140 KIT KAT ROAD
TAX MAP 43, GRID 10, PARCEL A
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 44-5218-D



VICINITY MAP
COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20602153-5
SCALE: 1"=200'
ADC MAP COORDINATES: 24/85

BENCHMARK	
GEODETIC SURVEY CONTROL - 43BC	ELEV. 214.124'
	N 549592.070
	E 1,375,466.711
GEODETIC SURVEY CONTROL - 43BB	ELEV. 209.012'
	N 550,534.184
	E 1,376,905.369

LEGEND

- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING SEWER MANHOLE
- PROPOSED WATER VALVE
- EXISTING WATER VALVE
- PROPOSED WATER BEND
- PROPOSED SHC'S
- PROPOSED WHC'S
- SEWER CLEANOUT
- UTILITY TEST PIT LOCATION
- PROPOSED WATER VALVE, TEE & CROSS
- 100 YR. FLOODPLAIN
- STREAM BUFFER
- WETLAND BUFFER

SHEET INDEX

SHEET TITLE	SHEET NUMBER
TITLE SHEET	1
FINAL PUBLIC WATER PLAN	2
FINAL PUBLIC WATER PROFILES	3
EXISTING CONDITIONS AND ABANDONMENT PLAN	4

QUANTITIES TABLE

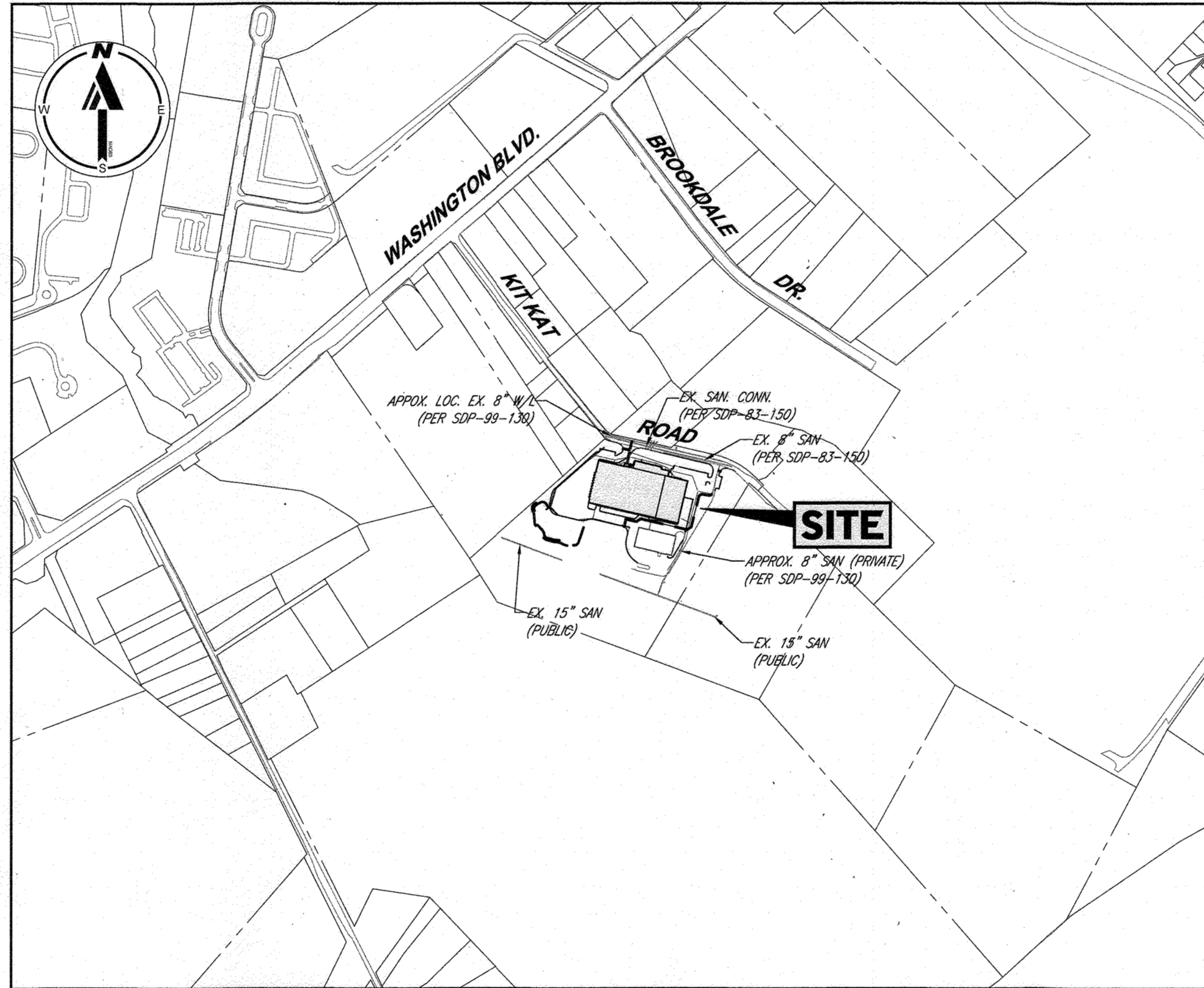
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	AS-BUILT TYPE	MANUFACTURER / SUPPLIER
1/8" BEND	8	8	MJ 01	Star-Belair supply
1/32" BEND	2	2	MJ 01	Star-Belair supply
8" WATER PVC - C900 DR-18 (235 PSI)	709 LF	642	C900	Westlake-Belair supply
8" WATER PVC - C900 DR-18 (235 PSI)	34 LF	56	C900	Westlake-Belair supply
8" VALVE	3	3	BW M7X M7	Mueller-Belair supply
FIRE HYDRANT, FH TEE & VALVE	3	3	4423 5V4	Mueller-Belair supply
1/2" TAPPING SLEEVE (FH #2)	2	1	SST 432	Je-m-Belair supply
8" 3" HIGH DEFLECTION COUPLING	1	1	FluidTite 8"	Mueller-Belair supply
8" CAP & BUTTRESS	2	2	MJ 01	Star-Belair supply
NAME OF UTILITY CONTRACTOR 6" ROCR		2	MJ 01	Star-Belair supply
8x8 Tee			CHECK BOX	Star-Belair supply
6x8 Tee			CHECK BOX	Star-Belair supply
AS-BUILT DATE				7/2/2024
SURVEY AND DRAFTING DIVISION				
Name of utility contractor - Allan Myers				

Waterline A

Valve (Unit)/Lot	Location 1	Feet	Location 2	Feet
FH #2 6" valve	FH #2	13'-5"	EX. 6" KIT KAT	10'
Sta. 4452.70 8" valve	50 MH-B-25	114'	EX. POC	44'
Sta. 4454.82 8" valve	50 MH-B-25	110'	FH #3	139'
Sta. 5186.90 6" valve FH #3	FH #3	36'	50 MH-B-25	42'
Sta. 5189.63 8" valve	FH #3	40'	50 MH-B-25	46'

Waterline B

Sta. 0100 8" valve	FH #1	61'	EX. 50 MH KIT KAT	135'
Sta. 0149 6" valve FH #1	FH #1	36'	50 MH-B-70	99'
Sta. 0131 8" valve	FH #1	38'	50 MH-B-70	84'



LOCATION MAP

SCALE: 1"=600'
TYPE OF BUILDING: INDUSTRIAL
DRAINAGE AREA: PATAPSCO
NUMBER OF LOTS/PARCELS/UNITS: 1
AREA OF LOT/PARCEL: 12.59 +/- AC
NUMBER OF WH.C.: 1 (PROPOSED)
NUMBER OF S.H.C.: 1 (PROPOSED)
WATER ZONE: 400
TEST GRADIENT: 0.77
TEST PRESSURE: 216 PSI
TREATMENT PLANT: PATAPSCO

REFERENCE DRAWINGS

- SDP-84-222
- SDP-83-150
- SDP-99-130
- SDP-23-003

DESIGN MANUAL WAIVERS

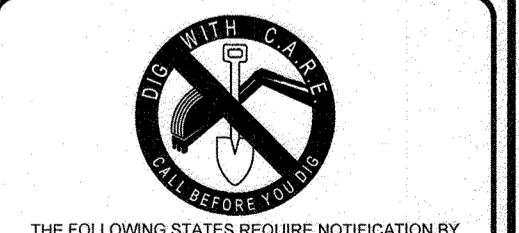
2-23-013

GENERAL NOTES

- 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 08/25/21 BY BOHLER ENGINEERING.
- 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. 43BC AND NO. 43BB. (ENGINEERING/SURVEY FIRM SHALL PROVIDE DESCRIPTIONS OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS ON CONCRETE STRUCTURES)
HOWARD COUNTY MONUMENT NO. 43BC ELEV. = 214.124'
HOWARD COUNTY MONUMENT NO. 43BB ELEV. = 209.012'
- 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 BY 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 (CONSTRUCTION SERVICES) 410-637-8713
BGE (EMERGENCY) 410-685-0123
BUREAU OF UTILITIES 410-313-4900
COLONIAL PIPELINE COMPANY 410-795-1390
MISS UTILITY 1-800-257-7777
STATE HIGHWAY ADMINISTRATION 410-531-5533
VERIZON 1-800-743-0333
- 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.
- REFER TO SHEET 11 FOR STRUCTURE SCHEDULES.
- SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-_____.

WATER NOTES

- ALL WATER MAINS TO BE P.V.C. CLASS (DR-18) C900 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO 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 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 RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER WIRES AND CONTINUITY TEST STATION SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH 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 PIPE SHALL BE SUBMITTED WITH PIPE MATERIALS CERTIFICATIONS OR SHOP DRAWING 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 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 RESTRAINS 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 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 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). EQUIPMENT 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 CERTAINTIED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- FIVE 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 (IPEX) 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 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.
- EACH DWELLING WILL BE SERVED BY A 1-1/2" DIAMETER WHC, WITH A 1" METER WHICH WILL BE LOCATED AT THE PROPERTY LINE. THE PREFERRED LOCATION OF THE OUTSIDE WATER METER SETTING IS IN A GRASS AREA WITH THE ROAD RIGHT-OF-WAY AND OUTSIDE OF TRAFFIC BEARING AREAS.
- ALL WATERLINE, STRUCTURES AND APPURTENANCES SHALL BE ABANDONED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, SECTION 1015: ABANDONMENT OF PIPELINE STRUCTURES AND APPURTENANCES.



THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE CALL: 811 (TOLL FREE 1-800-245-4848) (PA 1-800-243-7776) (DC 1-800-257-7777) (VA 1-800-552-7031) (MD 1-800-252-7777) (DE 1-800-282-8559)

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-23-003

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
7/27/23 DATE

OWNERS:
PARCEL 46
GRANDVIEW PARTNERS
1530 WILSON BLVD., SUITE 450
ARLINGTON, VA 22209
PHONE: (703) 522-9502
PARCEL 661
GRANDVIEW PARTNERS
1530 WILSON BLVD., SUITE 450
ARLINGTON, VA 22209
PHONE: (703) 522-9502
DEVELOPER:
GRANDVIEW PARTNERS
1530 WILSON BLVD., SUITE 450
ARLINGTON, VA 22209
CONTACT: JEFF USAS
PHONE: (703) 522-9502

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
7/19/23 DATE
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
7/19/23 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

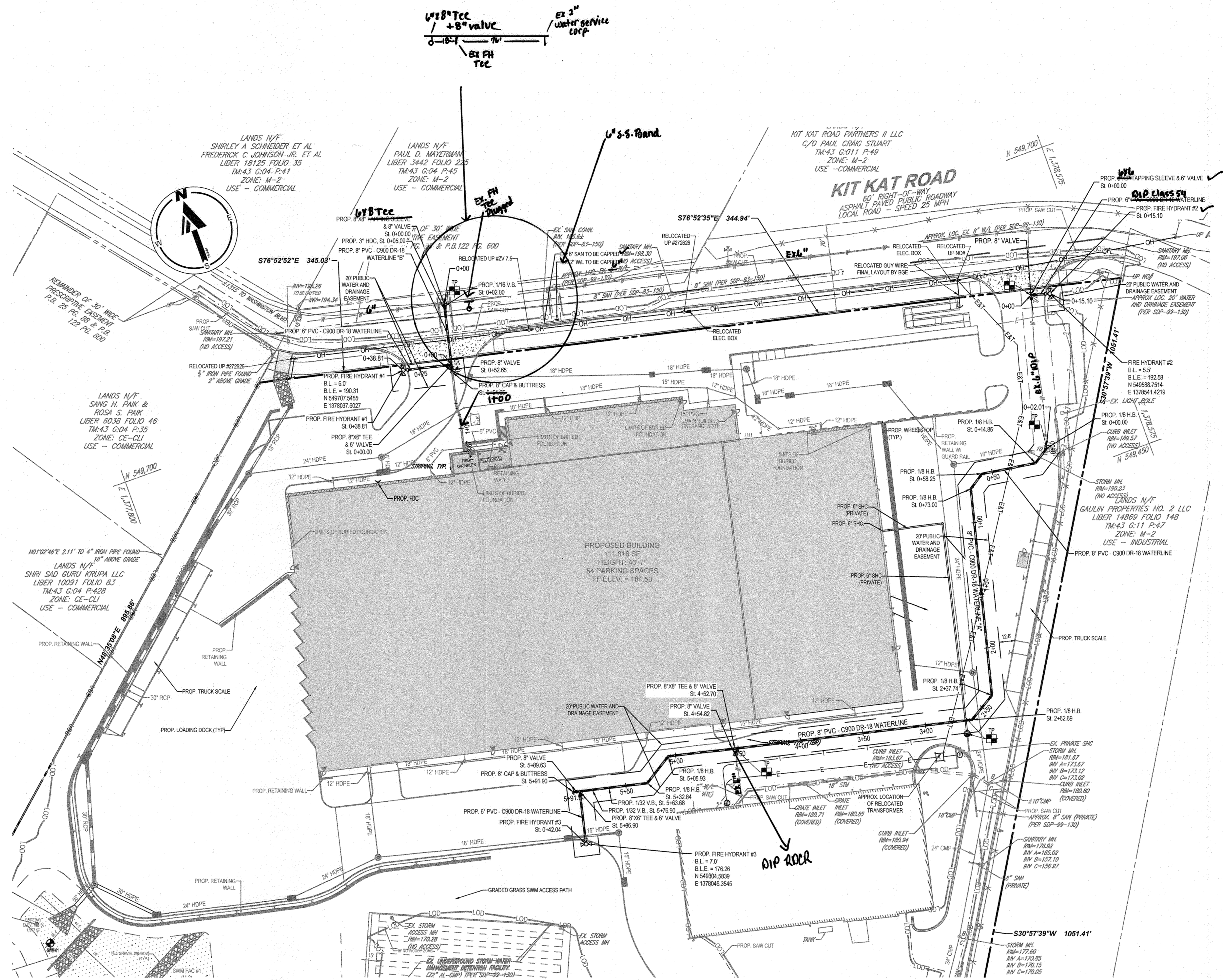
BOHLER //
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21284
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

B.R. ROWE
7/19/2023
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 4806
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 4806, EXPIRATION DATE: 7/31/25

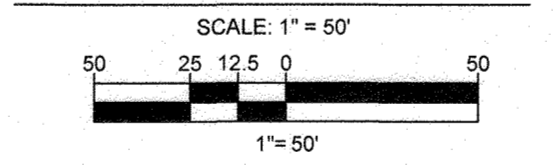
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DRN.					
CK: M.P.					
DATE: 03/23/23					
REV.					
DATE					
DESCRIPTION					
BY					

TITLE SHEET
PARCEL NO. A
600' SCALE MAP NO. 43 BLOCK NO.

GRANDVIEW KIT KAT PARCELS A
7130 & 7140 KIT KAT ROAD, ELKRIDGE, MD
TAX MAP 43, GRID 10, PARCEL A
1ST ELECTION DISTRICT
HOWARD COUNTY
CONTRACT NO.:
SCALE AS SHOWN
SHEET 1 OF 4



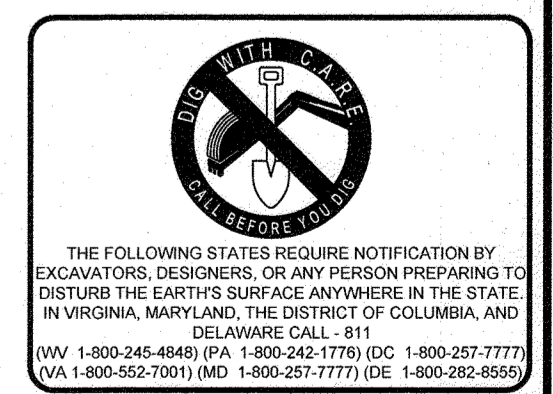
PUBLIC WATER PLAN



As-BUILT

NOTE:
 CONTRACTOR TO VERIFY ALL STRUCTURES SIZES PRIOR TO ORDERING.

TEST PIT NOTE
 CONTRACTOR TO TEST PIT 2 FEET BELOW PROPOSED UTILITY OR UNTIL EXACT LOCATION OF EXISTING UTILITY IS IDENTIFIED AND SUBMIT ANY DISCREPANCIES TO BOHLER ENGINEERING IN WRITING.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 Date: 7/19/23

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 Date: 7/19/23

BOHLER //
 901 DULANEY VALLEY ROAD, SUITE 801 TOWSON, MARYLAND 21284
 Phone: (410) 821-7900
 Fax: (410) 821-7987
 MD@BohlerEng.com

B.R. ROWE
 PROFESSIONAL ENGINEER
 License No. 40891
 State of Maryland
 Date: 03/23/23

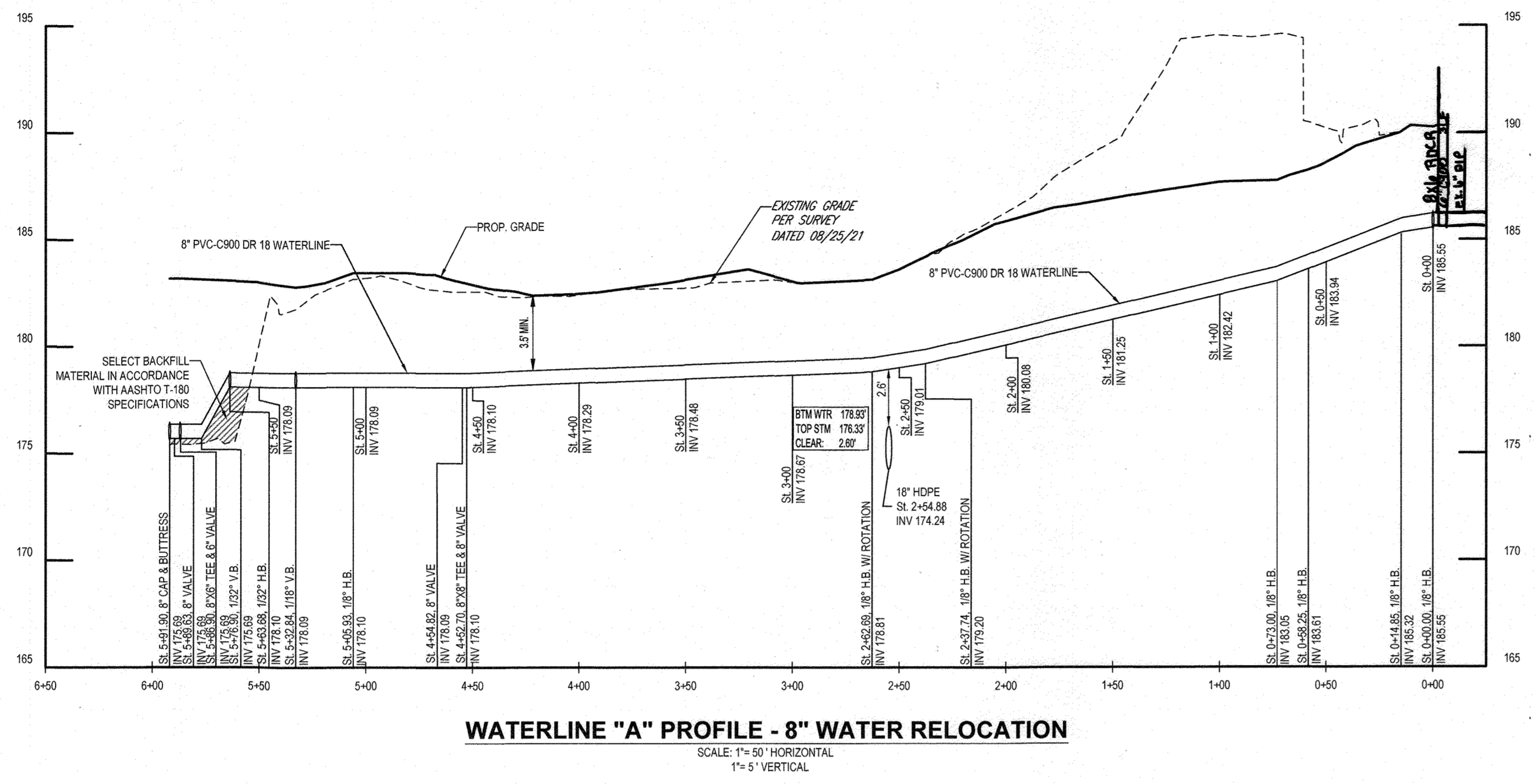
DES:	1	07/19/2023	As-Built	DFI
DRN:				
CK: M.P.				
DATE:	03/23/23			
REV.		DATE	DESCRIPTION	BY

FINAL PUBLIC WATER PLAN

PARCEL NO. A
 BLOCK NO. 43
 600' SCALE MAP NO. 43

GRANDVIEW KIT KAT PARCELS A
 7130 & 7140 KIT KAT ROAD, ELKRIDGE, MD
 TAX MAP 43, GRID 10, PARCEL A
 1ST ELECTION DISTRICT
 HOWARD COUNTY
 CONTRACT NO.:

SCALE: 1" = 50' HORIZ.
 SHEET: 2 of 4



WATERLINE "A" PROFILE - 8" WATER RELOCATION
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

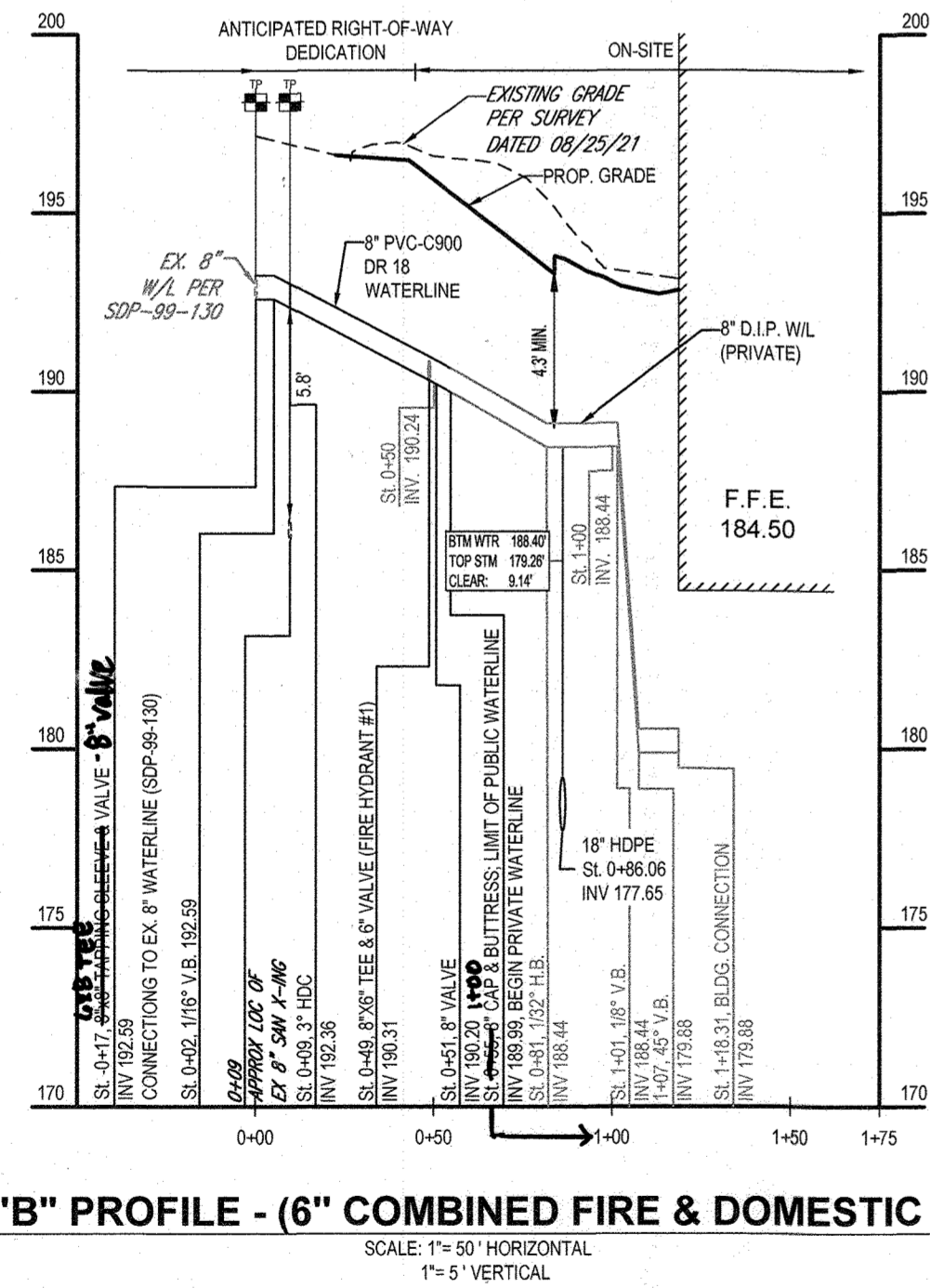
WATER MAIN CL. STATION	FITTINGS	COORDINATES
STA 0+00	18" H.B.	N 54974.350 E 1378497.389
STA 0+15	18" H.B.	N 54968.257 E 1378484.912
STA 0+58	18" H.B.	N 549473.964 E 1378442.051
STA 0+73	18" H.B.	N 54964.933 E 1378429.742
STA 2+38	18" H.B.	N 54935.144 E 1378389.656
STA 2+63	18" H.B.	N 54922.328 E 1378388.258
STA 4+53	8" TEE & 8" VALVE	N 54935.457 E 1378183.200
STA 4+65	8" VALVE	N 54935.936 E 1378181.142
STA 5+06	18" H.B.	N 54947.538 E 1378131.362
STA 5+33	18" H.B.	N 54933.307 E 1378108.524
STA 5+64	102" V.B.	N 54940.284 E 1378078.475
STA 5+77	102" V.B.	N 54943.275 E 1378065.608
STA 5+87	8" TEE & 8" VALVE	N 54945.538 E 1378055.867
STA 5+90	8" VALVE	N 54946.155 E 1378053.210
STA 5+92	8" CAP & BUTTRISS	N 54946.889 E 1378050.997

WATER MAIN CL. STATION	FITTINGS	COORDINATES
STA 0+00	8" TAPPING SLEEVE & 8" VALVE	N 54976.123 E 1378098.440
STA 0+53	8" VALVE	N 54984.842 E 1378074.489
STA 0+55	8" CAP & BUTTRISS	N 54982.894 E 1378074.035

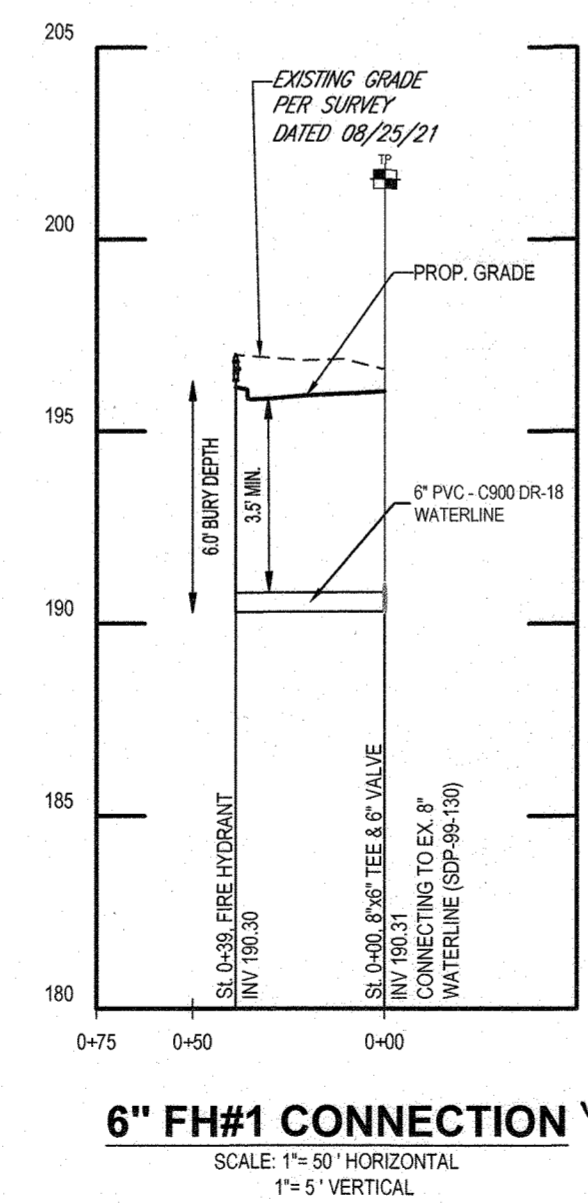
WATER MAIN CL. STATION	FITTINGS	COORDINATES
STA 0+00	8" TEE & 8" VALVE	N 54988.738 E 1378075.397
STA 0+39	FIRE HYDRANT #1	N 54970.545 E 1378037.603

WATER MAIN CL. STATION	FITTINGS	COORDINATES
STA 0+00	8" TAPPING SLEEVE & 8" VALVE	N 54982.942 E 1378038.918
STA 0+15	FIRE HYDRANT #2	N 54988.751 E 1378541.422

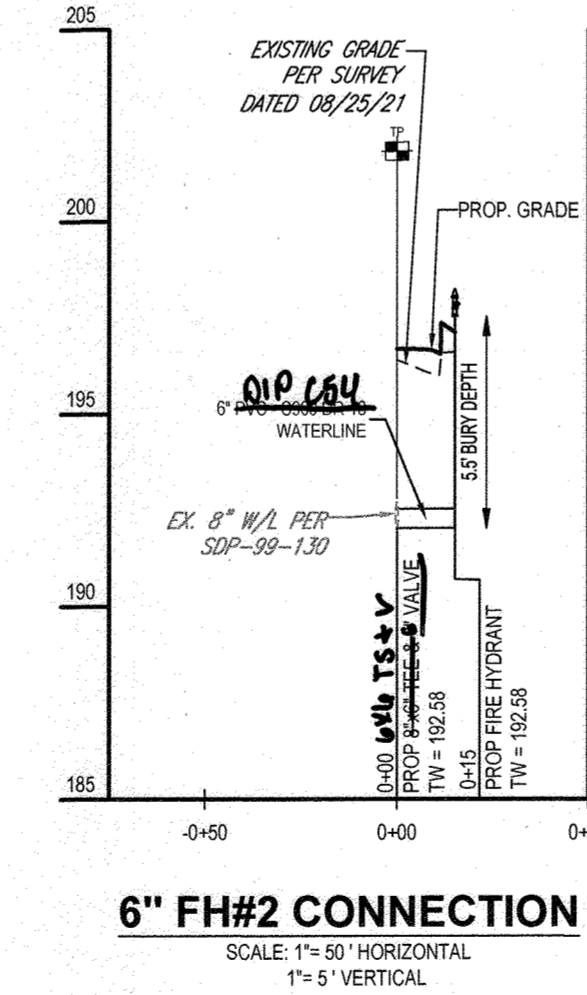
WATER MAIN CL. STATION	FITTINGS	COORDINATES
STA 0+00	8" TEE & 8" VALVE	N 54946.538 E 1378062.867
STA 0+42	FIRE HYDRANT #3	N 54934.394 E 1378046.354



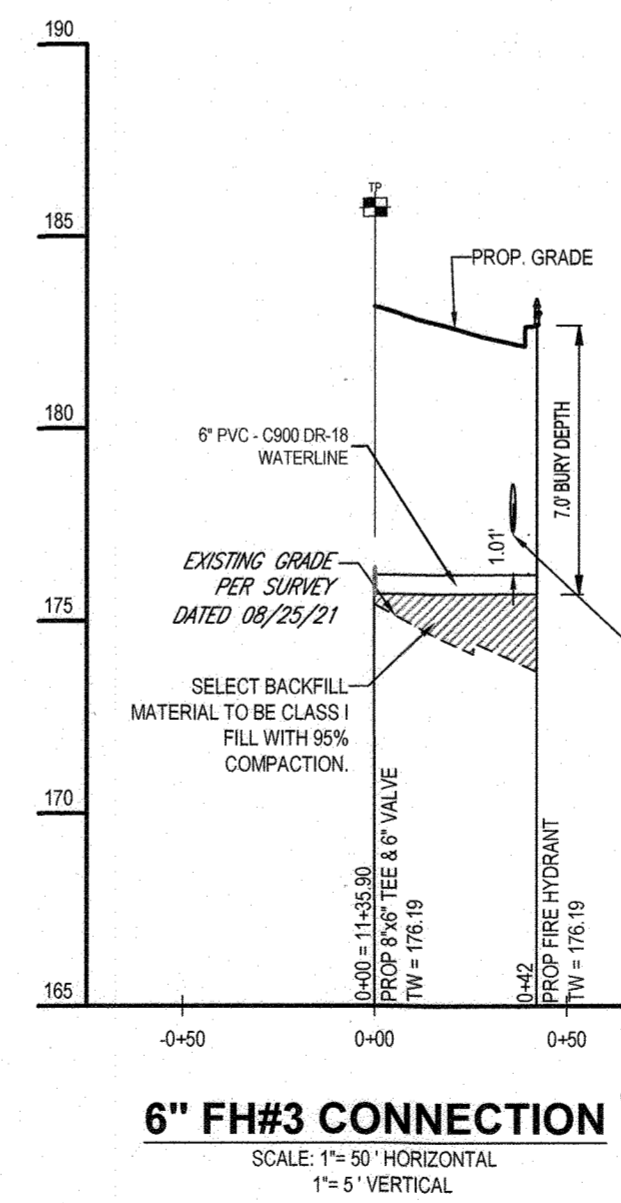
WATERLINE "B" PROFILE - (6" COMBINED FIRE & DOMESTIC CONNECTION)
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



6" FH#1 CONNECTION
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



6" FH#2 CONNECTION
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

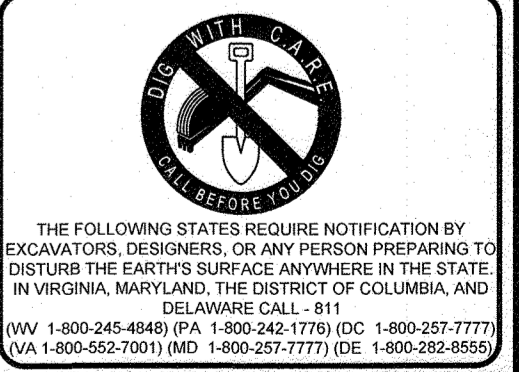
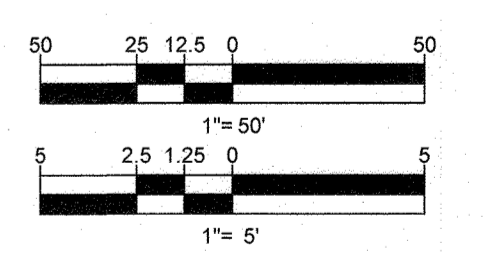


6" FH#3 CONNECTION
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

As-Built

NOTE:
CONTRACTOR TO VERIFY ALL STRUCTURES SIZES PRIOR TO ORDERING.

TEST PIT NOTE
CONTRACTOR TO TEST PIT 2 FEET BELOW PROPOSED UTILITY OR UNTIL EXACT LOCATION OF EXISTING UTILITY IS IDENTIFIED AND SUBMIT ANY DISCREPANCIES TO BOHLER ENGINEERING IN WRITING.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
DATE: 7/19/23

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/19/23

BOHLER //
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21284
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

B.R. ROWE
PROFESSIONAL ENGINEER
LICENSE NO. 0688, EXPIRATION DATE: 7/31/25

DES:	1	07/26/2023	DFI - As-Built
DRN:			
CK: M.P.			
DATE:	03/23/23		
REV.		DATE	DESCRIPTION

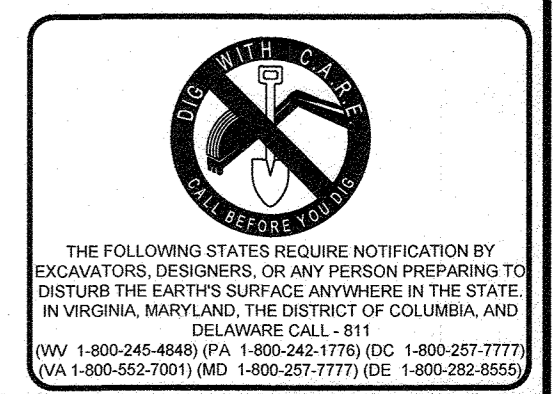
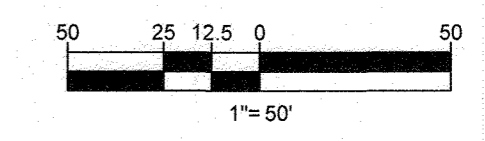
FINAL PUBLIC WATER PROFILES
PARCEL NO. _____ A
600' SCALE MAP NO. _____ 43 BLOCK NO. _____

GRANDVIEW KIT KAT PARCELS A
7130 & 7140 KIT KAT ROAD, ELKRIDGE, MD
TAX MAP 43, GRID 10, PARCELS A
1ST ELECTION DISTRICT
HOWARD COUNTY
CONTRACT NO.:

SCALE
1"=50' HORIZ
1"=5' VERT.
SHEET
3 OF 4



As-Built



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
 [Signature]
 CHIEF, BUREAU OF UTILITIES
 DATE: 7/19/23

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 7/23/23

BOHLER //
 901 DULANEY VALLEY ROAD, SUITE 801
 TOWSON, MARYLAND 21284
 Phone: (410) 821-7900
 Fax: (410) 821-7987
 MD@BohlerEng.com

B.R. ROWE
 [Signature]
 PROFESSIONAL ENGINEER
 License No. 4089, State of Maryland
 DATE: 03/23/23

DES:	1	07/26/2024	DFI - As-Built
DRN:			
CK: M.P.:			
DATE:	03/23/23		
REV:		DATE:	
		DESCRIPTION:	
		BY:	

EXISTING CONDITIONS AND ABANDONMENT PLAN
 PARCEL NO. A
 600' SCALE MAP NO. 43 BLOCK NO.

GRANDVIEW KIT KAT PARCELS A
 7130 & 7140 KIT KAT ROAD, ELK RIDGE, MD
 TAX MAP 43, GRID 10, PARCEL A
 1ST ELECTION DISTRICT
 HOWARD COUNTY
 CONTRACT NO.:
 SCALE: 1" = 40' HORIZ.
 SHEET: 4 OF 4