

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

BUILDING NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1-1	8921 CARLS CT.	94' TO BUILDING 1 SHC	47.5' TO 6" VALVE (3+4A)
2-1	8911 CARLS CT.	54' TO 6" VALVE (STA. 1+85)	20.5' TO BUILDING 2 SHC
3-1	8920 CARLS CT.	25.5' TO BUILDING 3 SHC	58' TO 6" VALVE (STA. 3+55)
4-1	8930 CARLS CT.	28' TO BUILDING 4 SHC	45.5' TO 6" VALVE (STA. 5+35)
5-1	8940 CARLS CT.	16.5' TO BUILDING 5 SHC	21.5' TO BUILDING 5 SHC CLEARANCE
6-1	8950 CARLS CT.	22' TO BUILDING 6 SHC	68.5' TO SMH-10
CLUB HOUSE	8925 CARLS CT.	10.5' TO CLUBHOUSE SHC	21.5' TO SMH-6
7-1	8960 CARLS CT.		
8-1	8970 CARLS CT.		
9-1	8980 CARLS CT.		
10-1	8990 CARLS CT.		

ITEM	SUPPLIER	ESTIMATE	UNIT	AS-BUILT
8" DIP WATER, CLASS 54	Ferguson	1800	LF	1830
6" DIP WATER, CLASS 54	Ferguson	27335	LF	314
4" DIP WATER, CLASS 54	Ferguson	21915	LF	0
8"x8" TEE	Ferguson	3	EA	3
8"x6" TEE	Ferguson	10	EA	10
8" 1/8 HB	Ferguson	13	EA	10
8" 1/16 HB	Ferguson	3	EA	2
8" 1/32 HB	Ferguson	3	EA	3
8" VALVE	Ferguson	9	EA	9
6" VALVE	Ferguson	10	EA	10
FIRE HYDRANT	Ferguson	6	EA	4
8"x4" TEE	Ferguson	0	EA	0
4" VALVE	Ferguson	10	EA	0
8" 45 BEND	Ferguson	1	EA	1

ITEM	SUPPLIER	ESTIMATE	UNIT	AS-BUILT
8" PVC SCH40 SDPS	Ferguson	5	LF	5

ITEM	SUPPLIER	ESTIMATE	UNIT	AS-BUILT
8"x8" TAPPING SLEEVE & VALVE		2		
8"x6" TAPPING SLEEVE & VALVE		6		
8" 1/8 VB		1		
8" 1/16 VB		1		

LEGEND

- 20--- EX. MAJOR CONTOUR
- 21--- EX. MINOR CONTOUR
- (S) EX. SANITARY MANHOLE
- CO EX. CLEANOUT
- (M) EX. WATER METER
- (H) EX. WATER VALVE
- (F) EX. FIRE HYDRANT
- (P) EX. SIGN
- (U) EX. UTILITY POLE
- S--- EX. SANITARY PIPE
- W--- EX. WATER PIPE
- SD--- EX. STORM DRAIN PIPE
- EX. CURB
- EX. FENCE
- EX. PROPERTY LINE
- EX. EASEMENT LINE
- (S) PROP. SANITARY MANHOLE
- CO PROP. CLEANOUT
- (M) PROP. WATER VALVE
- (F) PROP. FIRE HYDRANT
- (U) PROP. SANITARY PIPE
- PROP. WATER PIPE
- PROP. STORM DRAIN
- PROP. CURB

SHEET INDEX

- 01 - COVER SHEET
- 02 - WATER PLAN
- 03 - WATER PROFILES

WATER MAIN ABANDONMENT NOTES

- WATER MAINS TO BE ABANDONED SHALL BE CAPPED. CONCRETE BLOCKING SHALL BE PLACED TO RETAIN THE CAP ON ALL WATER MAINS THAT WILL REMAIN IN SERVICE.
- THE LIMITS OF ABANDONMENT FOR ALL PIPE, FITTINGS AND APPURTENANCES SHALL BE INDICATED ON THE PLANS. THE CONTRACTOR SHALL BE DIRECTED ON THE PLANS TO REMOVE AND SALVAGE ALL ABANDONED PIPE, FITTINGS, VALVES, VALVE BOXES, AND FIRE HYDRANTS, IF THEIR REUSE APPEARS PRACTICAL. OTHERWISE, THE CONTRACTOR SHALL BE DIRECTED ON THE PLANS TO PROPERLY CUT AND PLUG THE EXISTING MAIN AND PROVIDE ADEQUATE BUTTRESSING OR RESTRAINTS WHERE NEEDED.
- BUILDING SERVICE CONNECTIONS SHALL BE ABANDONED BY LOSING THE CORPERATION STOP, DISCONNECTING THE BUILDING SERVICE THERE FROM, REMOVING THE CORPERATION STOP AND PLUGGING THE LINE. ALL METERS SHALL BE REMOVED. METER PITS BACKFILLED AND METERS SALVAGED IF THEIR CONDITION PERMITS REUSE. IF WATER METERS ARE LOCATED INSIDE THE RESIDENCE OR BUILDING, THE BALL VALVE BOX SHALL BE REMOVED AT THE PROPERTY LINE.
- FOR ABANDONMENT OF WATER MAINS 20-INCH AND LARGER DIAMETER, A BRICK BULKHEAD NINE INCHES THICK OR AN APPROVED PLUG SHALL BE REQUIRED AT EACH LOCATION WHERE THE PIPE IS CUT OR VALVE IS REMOVED.
- FOR ABANDONMENT OF WATER MAINS SMALLER THAN 20-INCH DIAMETER, BULKHEADS USING BRICK MASONRY 2,500 PSI CONCRETE PLUGS OR CAPS SHALL BE REQUIRED AT THE END OF ABANDONED SECTIONS.

HOWARD SOIL CONSERVATION DISTRICT
HOWARD COUNTY, MARYLAND
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 3006 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, AND AS SHOWN ON THE SITE DEVELOPMENT PLAN SDP-14-090

John P. Ritten 5/15/15
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Steve C. Cunn 4/27/15
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Paul Clark 5-11-15
CHIEF, DEVELOPMENT ENGINEERING DIVISION

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

11850 WEST MARKET PLACE
SUITE A
FULTON, MD 20759
TELEPHONE: (410) 792-8086
FAX: (410) 792-7419

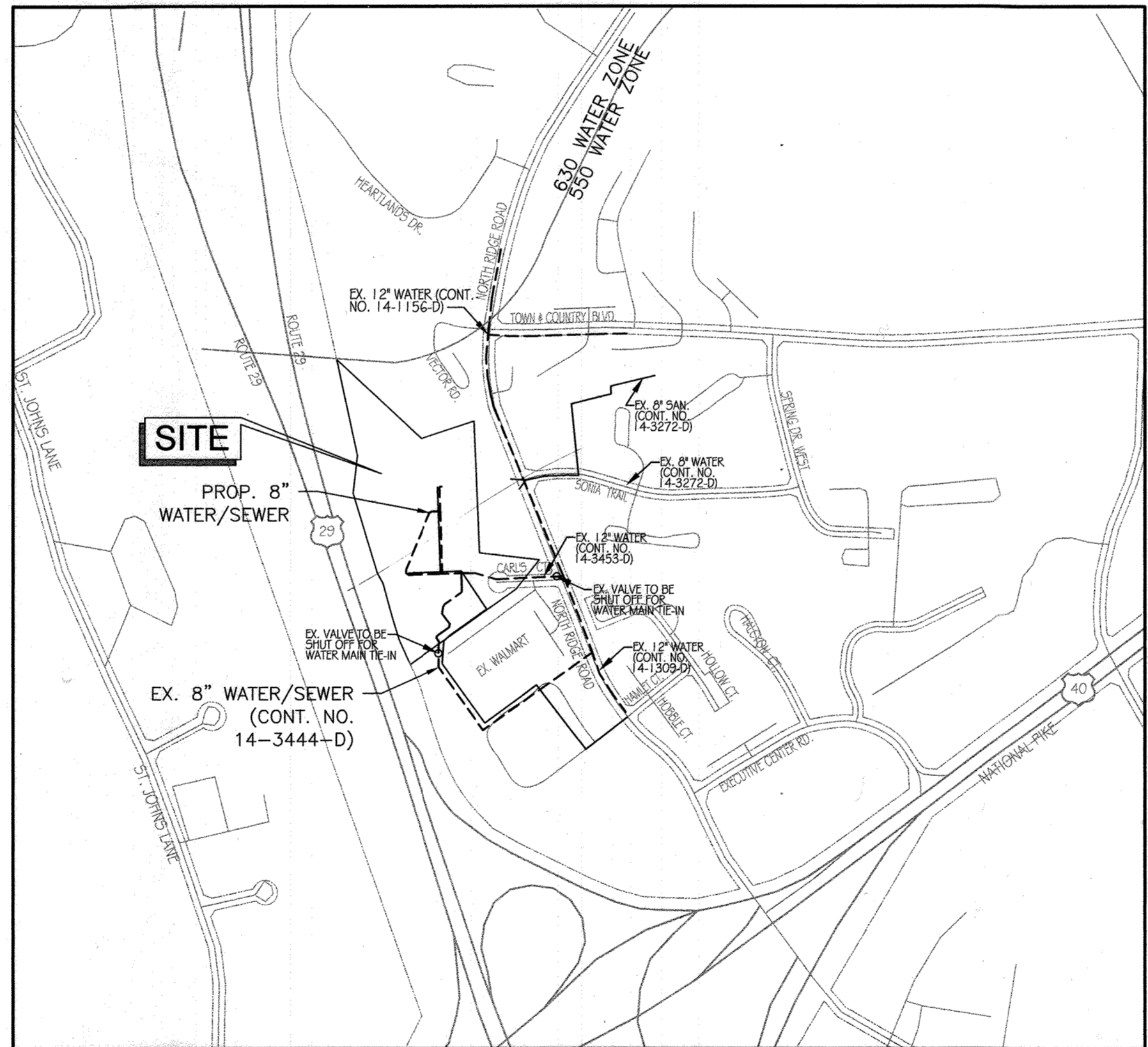
OWNER
COMMERCIAL CONTRACTORS INC.

1205 YORK ROAD
LUTHERVILLE-TIMONIUM,
MD 21093
(410)-825-8400

DESIGN: NAB
DRAWN: BRA
CHECKED: THM
DATE: 4-16-2015

SITE INFORMATION
WATER ZONE: 550
TEST GRADIENT: 700
TYPE OF BUILDING: RESIDENTIAL
NO. OF BUILDINGS: 11
NO. OF UNITS: 160
NO. WHC: 11
NO. SHC: 11
TREATMENT PLANT: PATAPSCO

NOTE:
A DESIGN WAIVER RELATIVE TO SECTION 5.4.8.4 OF THE HOWARD COUNTY DESIGN MANUAL WAS ACCEPTED BY HOWARD COUNTY DED AND DPW ON FEBRUARY 29, 2017.



LOCATION MAP
SCALE: 1"=600'

WATER PLANS

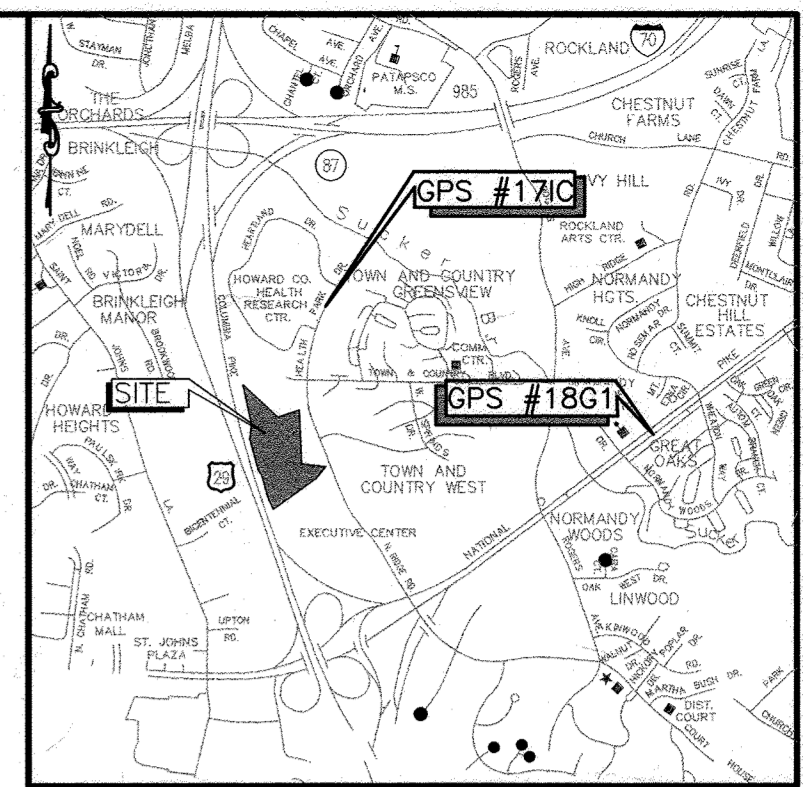
FOR

THE GATHERINGS LEGACY AT ELLICOTT'S RETREAT

CONTRACT #: 14-4880-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

WATER NOTES

- ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER WIRES 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 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, SERRATED 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 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 (1/2-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 CERTAINTY 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 (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 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.



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP 2186

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 NOVEMBER 2013 BY KCI TECHNOLOGIES, 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. 171C, NO. 1861, 1, 2, 3, . . . ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE BY KCI TECHNOLOGIES, INC. AND SHALL PROVIDE DESCRIPTION OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS ON CONCRETE STRUCTURES, ETC).
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [] AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T.....1-800-252-1133
 - BGE (CONSTRUCTION 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.....1-800-743-0033
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVEWORKING 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.

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. 33292, Expiration Date: 6/16/19

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. 33292, Expiration Date: 6/16/19

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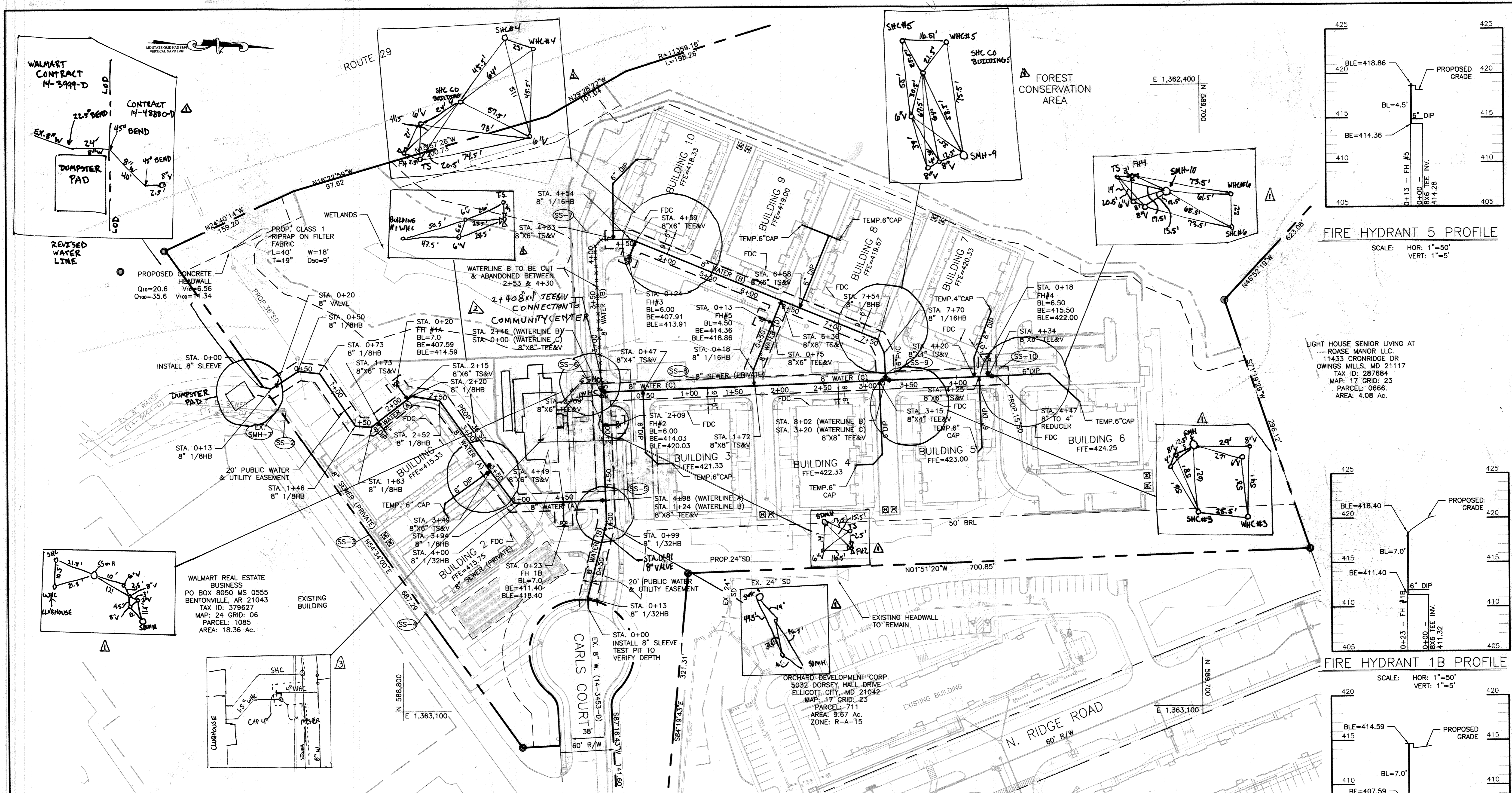
License No. 33292, Expiration Date: 6/16/19

LEGACY
THE GATHERINGS AT ELLICOTT'S RETREAT
WATER PLAN

COVER SHEET

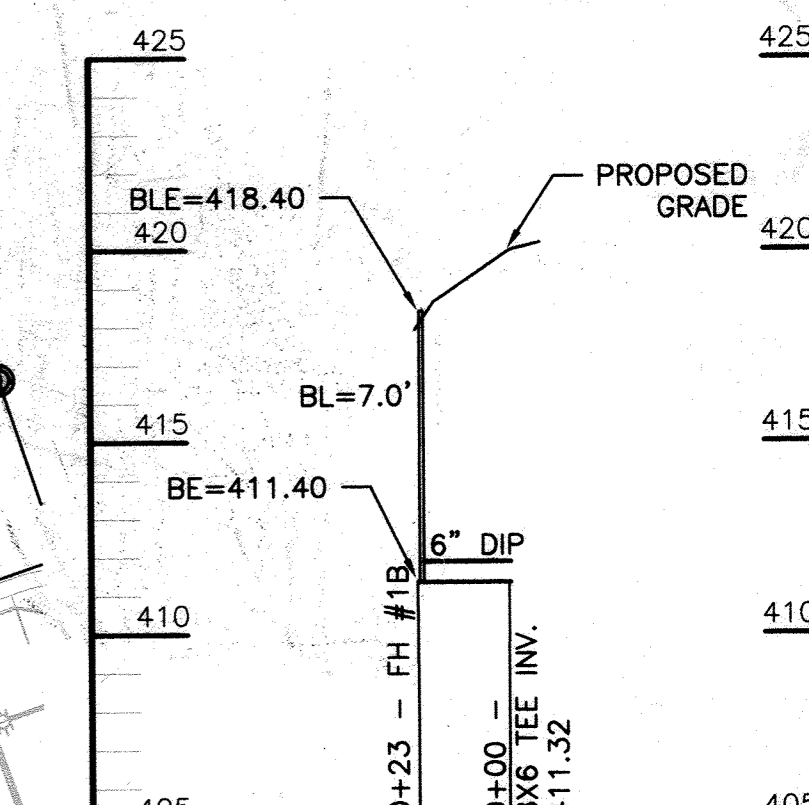
SCALE AS SHOWN
PROJECT # 27134772
SHEET 1 OF 3

ZONING: POR
TAX ACCOUNT # 379643
TAX MAP: 24 GRID: 06 PARCEL: 1085
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
CONTRACT # 14-4880-D

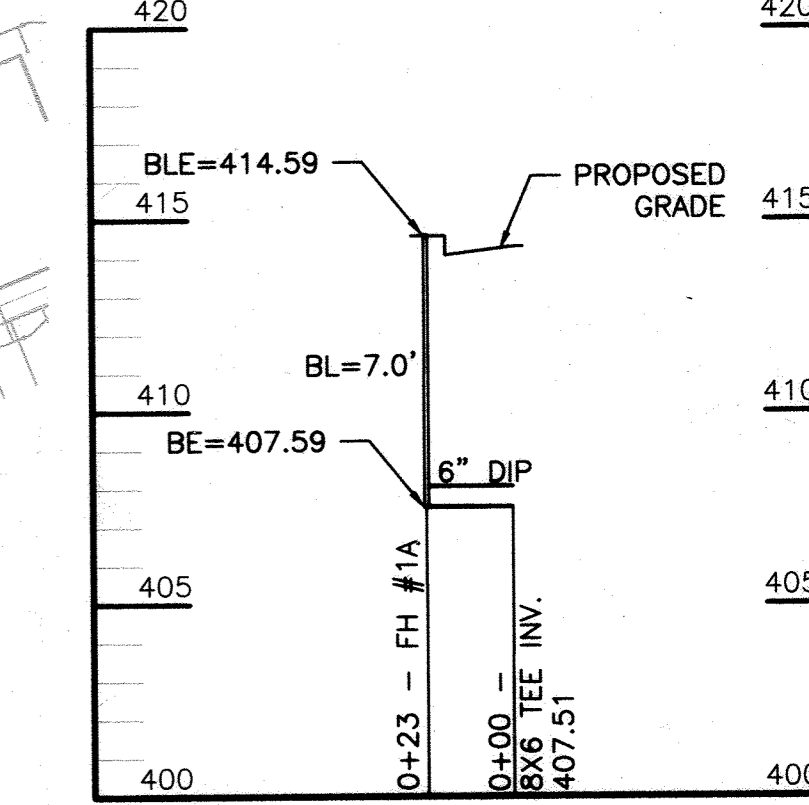


WATER PLAN
SCALE: 1"=50'

FIRE HYDRANT 5 PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



FIRE HYDRANT 1B PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



FIRE HYDRANT 1A PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



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. 51972, Expiration Date: 12/31/19



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. 33722, Expiration Date: 6/16/19



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. 33722, Expiration Date: 6/16/19

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
DATE: 7/24/17

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT/ENGINEERING DIVISION
DATE: 7/24/17

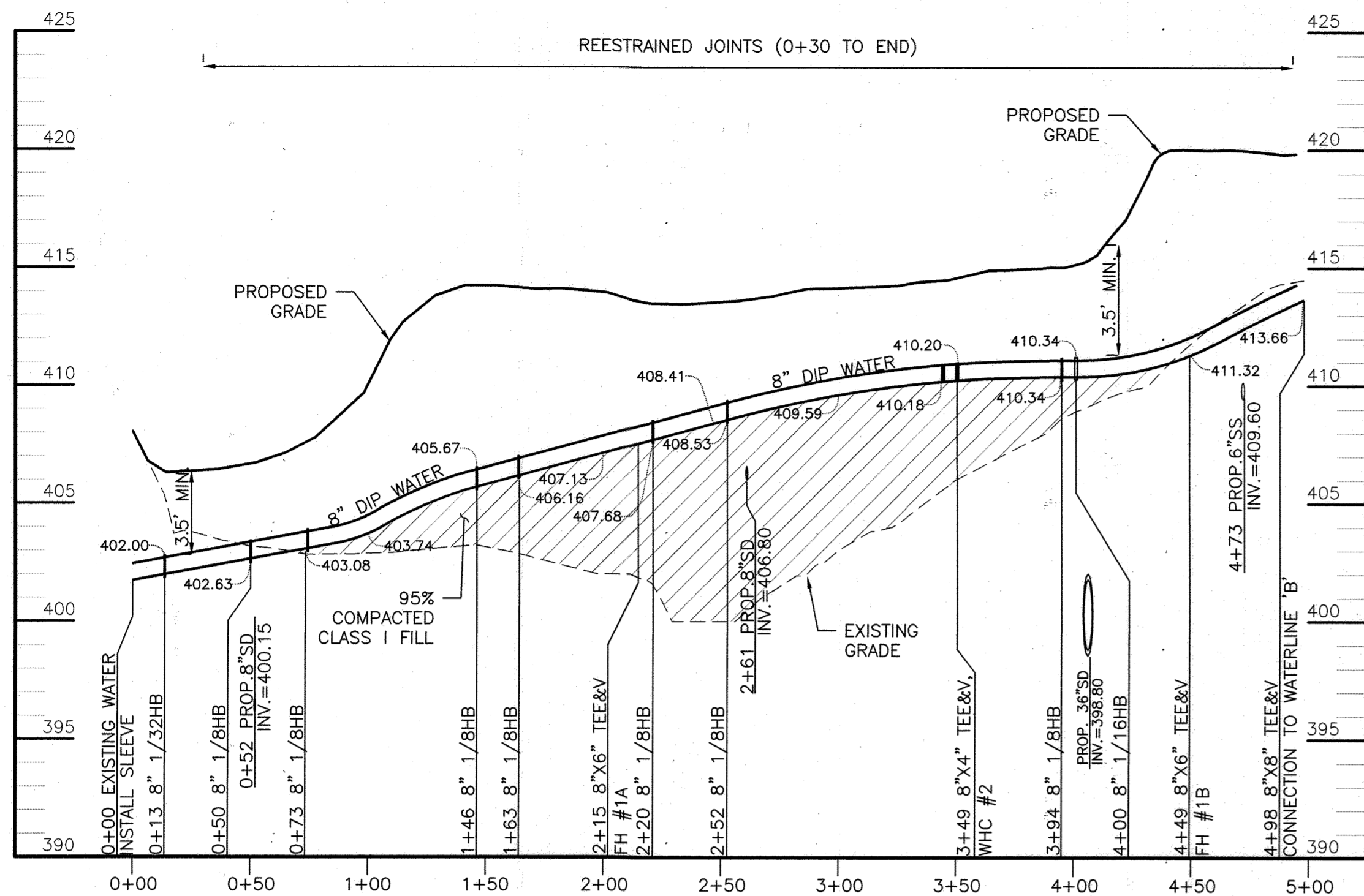
KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS
CONSTRUCTION MANAGERS
11850 WEST MARKET PLACE
SUITE A
FULTON, MD 20729
TELEPHONE: (410) 792-8086
FAX: (410) 792-7419

DESIGN: NAB
DRAWN: BRA
CHECKED: THM
DATE: 03-16-2017

NO.	REVISION	DATE
1	AS-BUILTS	4/2/16
2	REVISTO THE CLUB HOUSE	6/2/17
3	CLUBHOUSE W/HC METER ADDITION	9/28/18

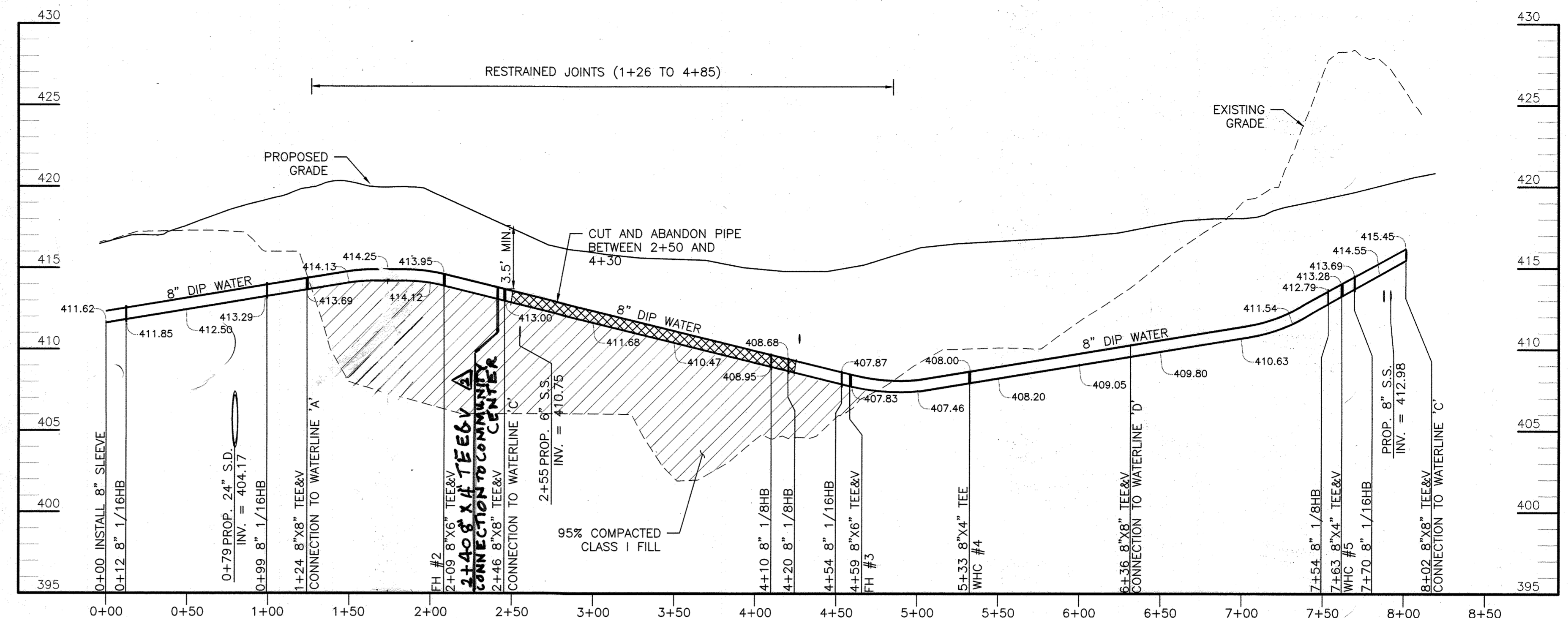
PUBLIC WATER PLAN
600' SCALE MAP NO.: 17
GRID: 7-C
PARCEL: 711

LEGACY AT ELLICOTT'S RETREAT
WATER PLAN
SCALE AS SHOWN
PROJECT # 27134772
SHEET 2 OF 3
ZONING: POR
TAX ACCOUNT # 379643
TAX MAP: 24 GRID: 06 PARCEL: 1085
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
CONTRACT # 14-4880-D



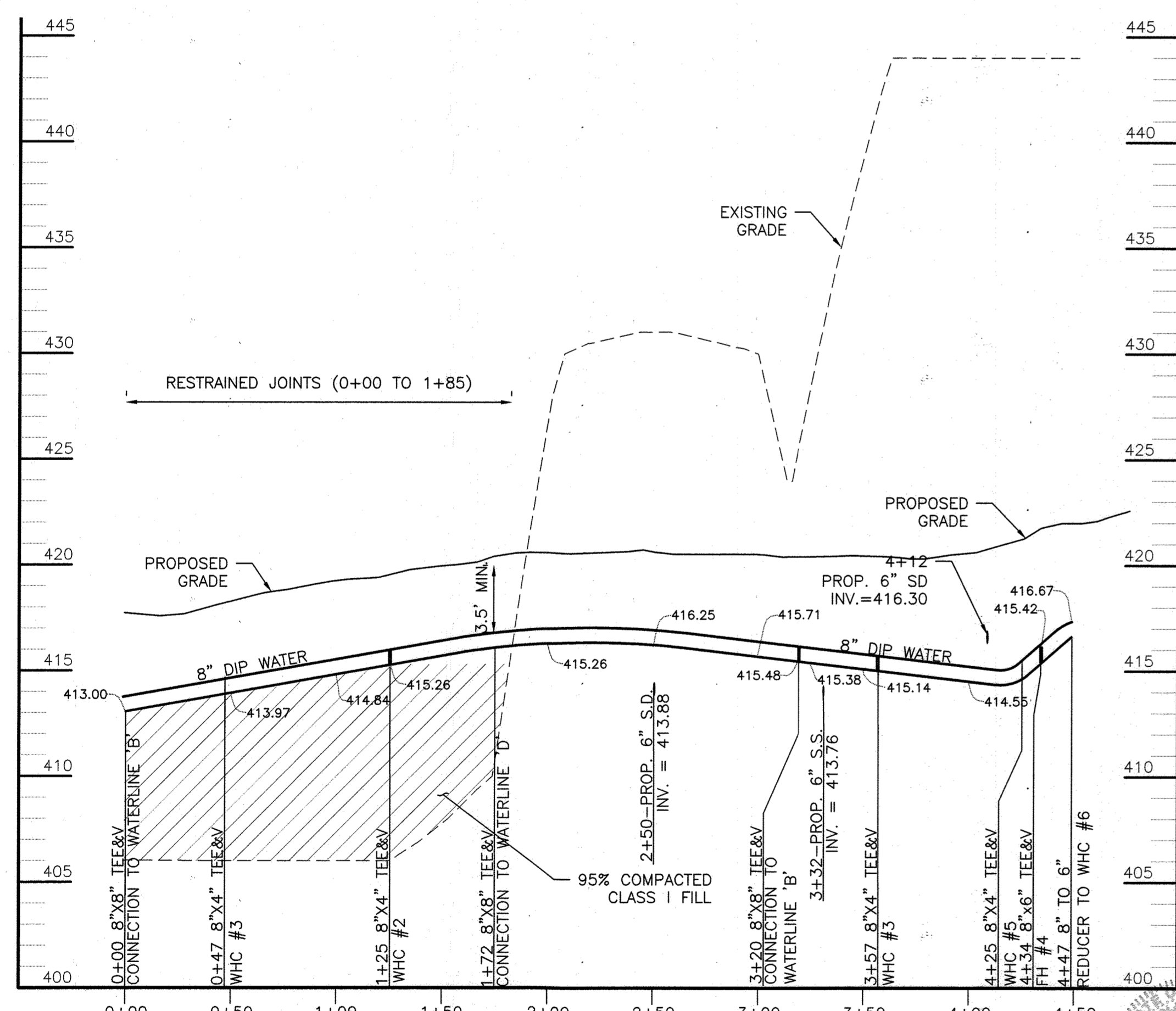
WATERLINE 'A' PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'



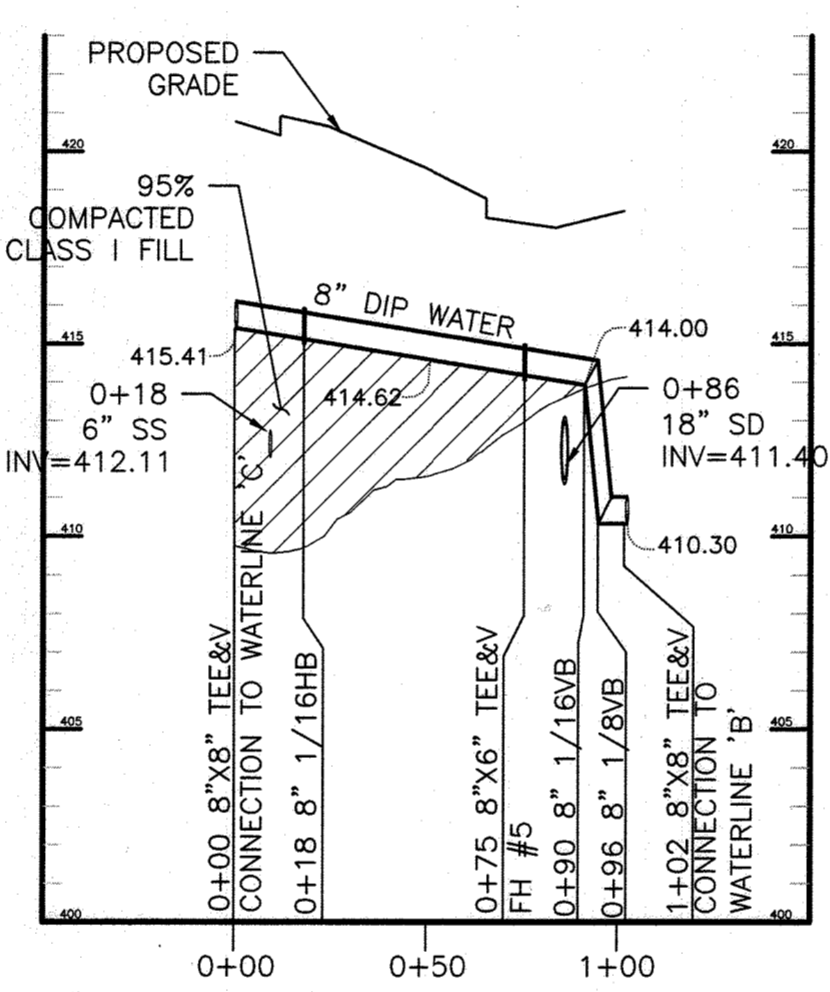
WATERLINE 'B' PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'



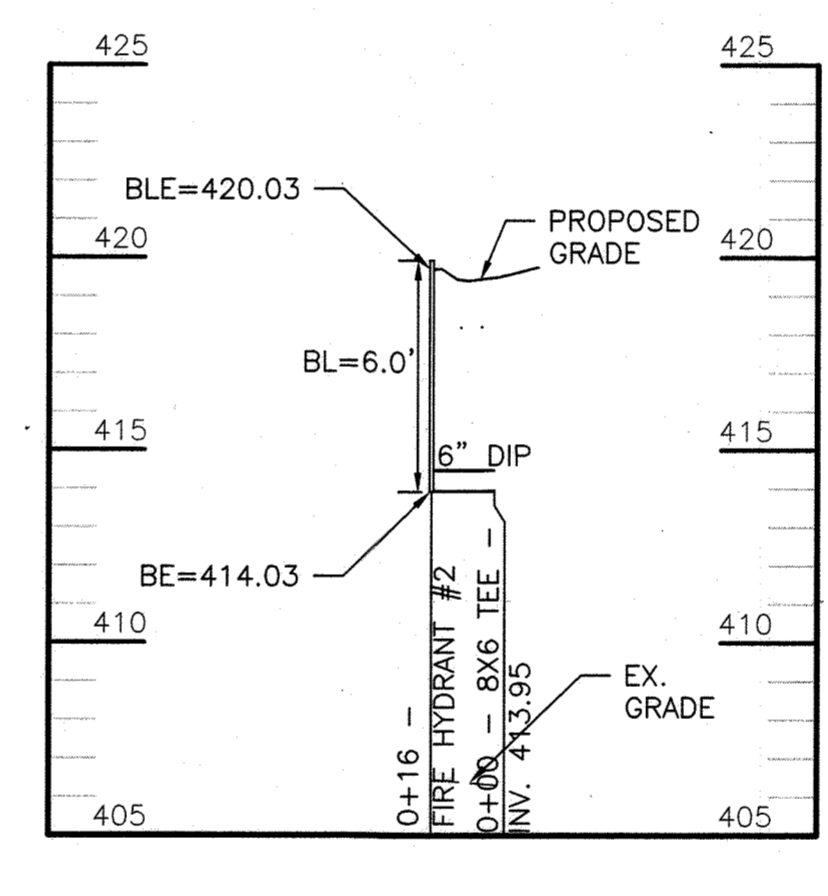
WATERLINE 'C' PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'



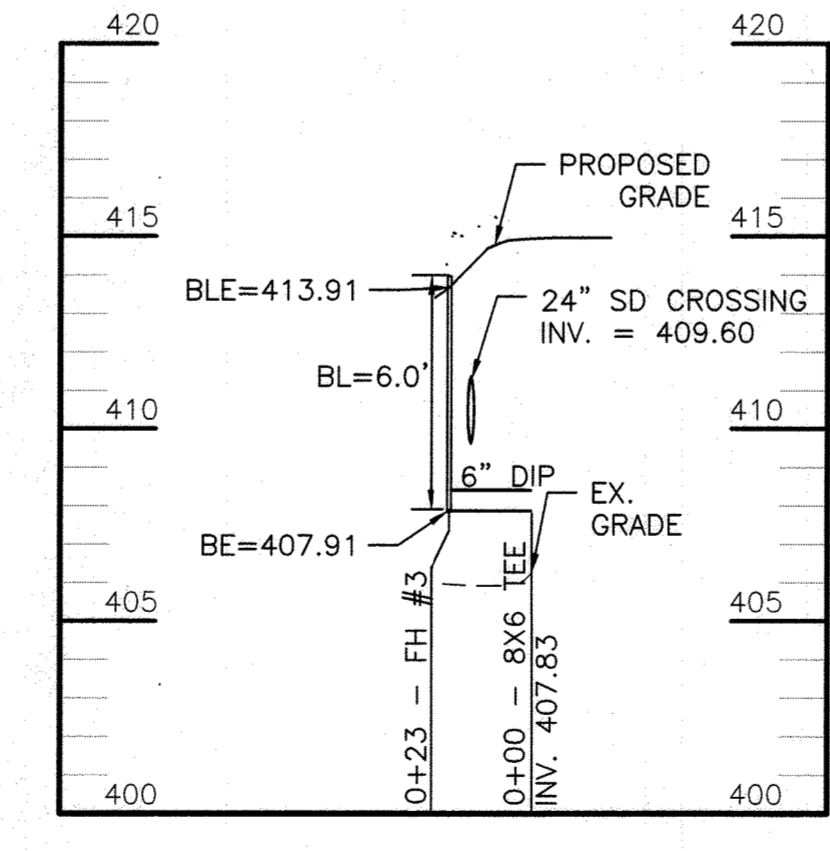
WATERLINE 'D' PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'



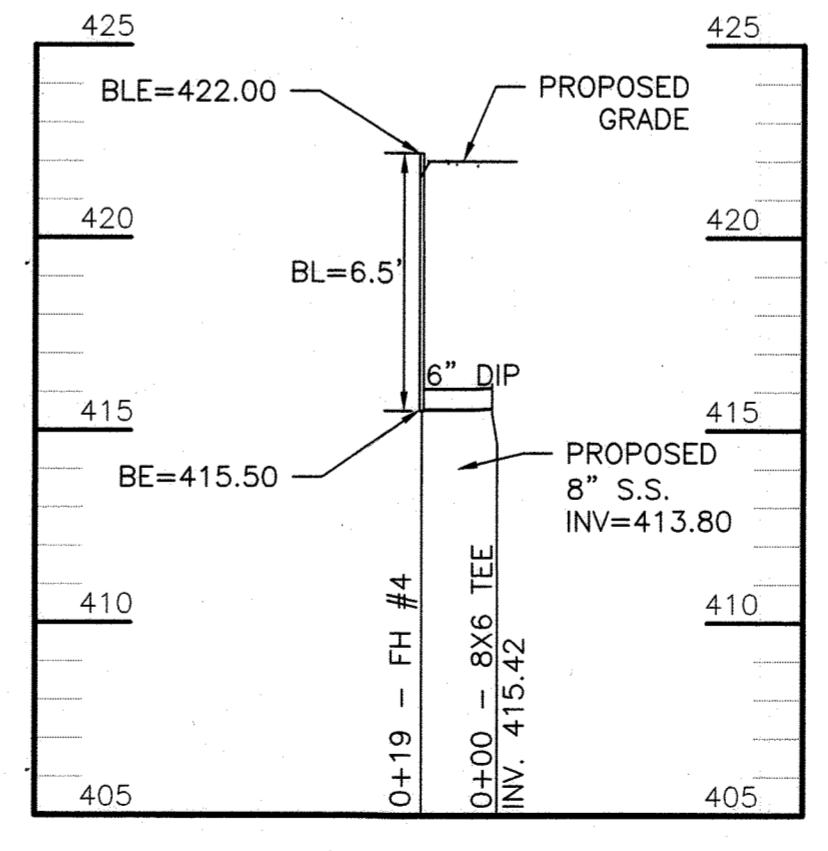
FIRE HYDRANT 2 PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'



FIRE HYDRANT 3 PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'

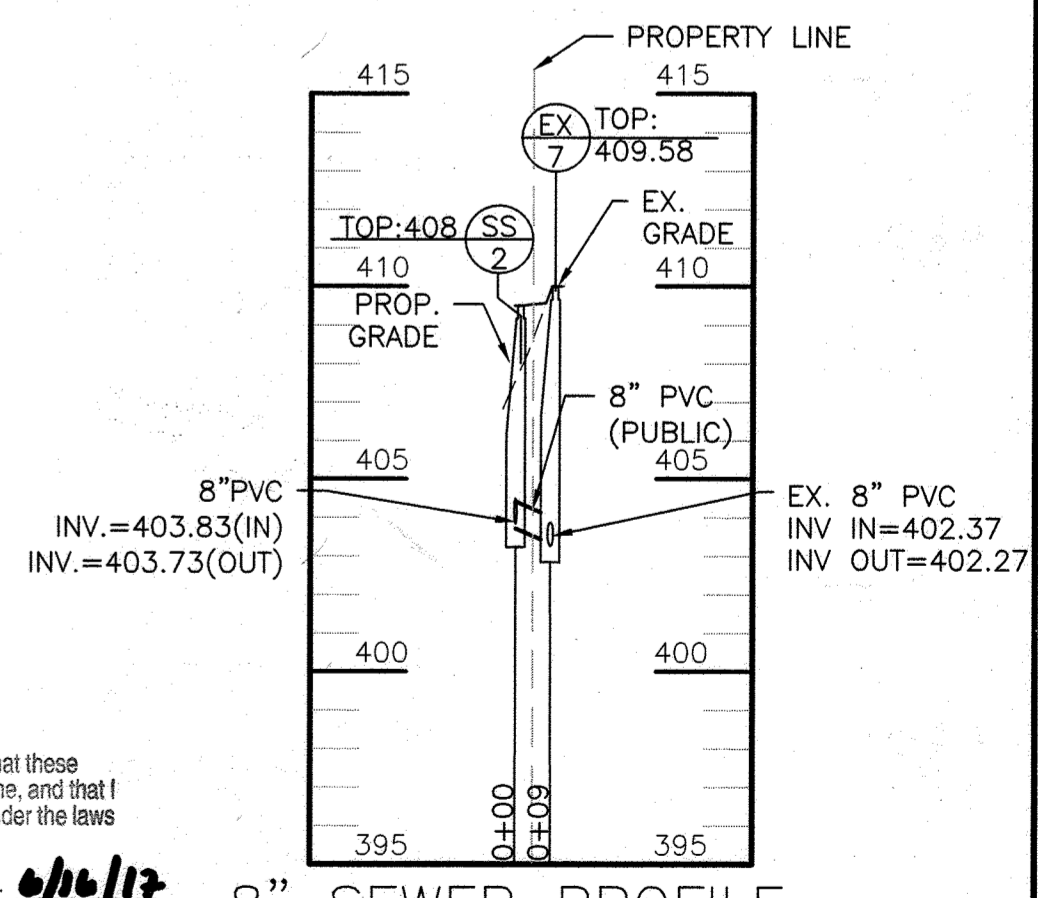


FIRE HYDRANT 4 PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'

FITTINGS CHART			
FITTING TYPE	STATION	NORTHING	EASTING
SLEEVE	0+00 (A)	588640.66	1362734.15
8" 1/8 H.B.	0+13 (A)	588653.89	1362736.92
8" 1/8 H.B.	0+20 (A)	588674.95	1362721.97
8" 1/8 H.B.	0+50 (A)	588684.61	1362717.19
8" 1/8 H.B.	0+73 (A)	588707.79	1362718.75
8" 1/8 H.B.	1+46 (A)	588748.71	1362778.92
8" 1/8 H.B.	1+63 (A)	588766.39	1362780.25
8" 1/8 H.B.	2+20 (A)	588812.15	1362745.96
8" 1/8 H.B.	2+52 (A)	588843.32	1362750.96
8"x4" TEE&V	3+49 (A)	588900.08	1362830.55
8" 1/8 H.B.	3+94 (A)	588927.27	1362866.95
8" 1/32 H.B.	4+00 (A)	588932.48	1362866.89
8"x8" TEE&V	4+98 (A)	589029.79	1362864.46
SLEEVE	0+00 (B)	589009.79	1362985.82
8" 1/32 H.B.	0+13 (B)	589008.81	1362972.72
8" 1/32 H.B.	0+99 (B)	589030.58	1362889.03
8"x8" TEE&V	1+24 (B)	589029.79	1362864.46
8"x6" TEE&V	2+09 (B)	589027.60	1362779.34
8"x8" TEE&V	2+46 (B)	589026.74	1362745.92
8" 1/8 H.B.	4+10 (B)	589019.76	1362578.85
8" 1/8 H.B.	4+20 (B)	589027.44	1362571.13
8" 1/16 H.B.	4+53 (B)	589060.24	1362571.50
8"x6" TEE&V	4+59 (B)	589065.17	1362573.50
8"x4" TEE&V	5+33 (B)	589133.09	1362601.80
8" 1/8 H.B.	7+54 (B)	589337.50	1362685.59
8"x4" TEE&V	7+63 (B)	589341.02	1362693.44
8" 1/16 H.B.	7+70 (B)	589344.33	1362700.59
8"x8" TEE&V	8+01 (B)	589345.78	1362732.38
8" 1/16 H.B.	0+18 (D)	589196.97	1362718.85

FITTINGS CHART			
FITTING TYPE	STATION	NORTHING	EASTING
8"x8" TEE&V	0+00 (C)	589025.31	1362742.19
8"x6" TEE&V	1+25 (C)	589151.75	1362738.15
8"x8" TEE&V	3+20 (C)	589345.78	1362732.38
8"x6" TEE&V	3+25 (C)	589351.13	1362731.15
8" 1/8" V.B.	4+12 (C)	589438.77	1362728.45
8"x6" TEE&V	4+34 (C)	589460.59	1362727.31
8"x6" REDUCER	4+47 (C)	589472.71	1362727.01
8"x6" TEE&V	1+73 (A)	588774.09	1362774.46
8"x6" TEE&V	0+47 (C)	589072.41	1362741.00
8"x6" TEE&V	3+13 (C)	589338.64	1362731.84
8"x6" TEE&V	4+25 (C)	589450.88	1362727.91
8"x6" TEE&V	6+58 (B)	589249.58	1362649.46
8"x6" TEE&V	4+33 (B)	589040.07	1362571.19
8"x8" TEE&V	1+72 (C)	589197.59	1362736.98
8" 1/16 VB	0+96 (D)	589226.37	1362647.46
8" 1/32 VB	0+90 (D)	589224.48	1362652.09



8" SEWER PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'

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. 33772, Expiration Date: 6/30/19

NOTE: EXISTING GRADE IS AT APPROXIMATELY 440'



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. 33772, Expiration Date: 6/30/19

LEGACY

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 4/28/17

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
DATE: M.G.

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
KCI TECHNOLOGIES
11850 WEST MARKET PLACE
SUITE A
FELTON, MD 20759
TELEPHONE: (410) 792-8086
FAX: (410) 792-7419

DESIGN:	NAB
DRAWN:	BRA
CHECKED:	THM
DATE:	03-16-2017
BY:	BA
NO.:	REVISIONS TO THE CLUB HOUSE
REVISION:	
DATE:	02/01/17

WATER PROFILE SHEET

THE GATHERINGS AT ELLICOTT'S RETREAT
WATER PLAN
SCALE AS SHOWN
PROJECT # 27134772
SHEET 3 OF 3
ZONING: POR
TAX ACCOUNT # 379643
TAX MAP: 24 GRID: 06 PARCEL: 1085
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
CONTRACT # 14-4880-D