

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.
 - TOPOGRAPHY FIELD SURVEYS WERE PERFORMED ON MARCH 2, 2015 BY ROBERT H. VOGEL ENGINEERING, INC. AND SUPPLEMENTED WITH HOWARD COUNTY GIS FOR OFFSITE AREAS.
 - 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 31AB AND 31DA.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:
 - GEODETIC SURVEY CONTROL 31AB (N 573,984.52/E 1,369,949.46) BRASS DISC SET ON TOP OF A CONCRETE MONUMENT.
 - GEODETIC SURVEY CONTROL 31DA (N 571,982.70/E 1,372,145.06) BRASS DISC SET ON TOP OF A CONCRETE MONUMENT.
 - 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, 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 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 OPERATION 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 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 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(c) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS SHALL BE AWWA STANDARD C900 DR-18 PVC 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 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 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 REST 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 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. 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.
- 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.
 - SPRINKLER SYSTEMS FOR SINGLE RESIDENTIAL DWELLING UNITS SHALL HAVE WATER HOUSE CONNECTIONS AND WATER METERS THAT ARE SIZED IN ACCORDANCE WITH THE DESIGN OF THE SPRINKLER SYSTEMS. SPRINKLER SYSTEMS FOR SINGLE RESIDENTIAL DWELLINGS SHALL HAVE A MINIMUM OF 1.5" SERVICE CONNECTION WITH A 1" OUTSIDE METER SETTING.

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 C5.52. WHERE WATERTIGHT FRAME AND COVER IS 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 SOIL CONSERVATION DISTRICT.

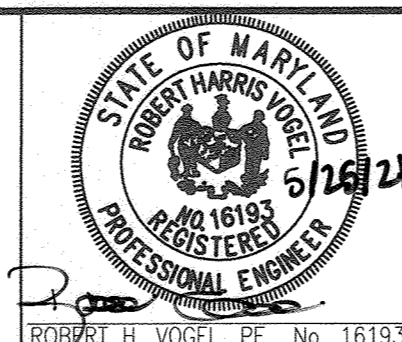
Alexander Butcher 06/15/21
 SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN F-20-024.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature] 6-9-21
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
[Signature] 6-22-21
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

VOGEL ENGINEERING
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7656 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: 09-27-2022

DRN: IH DES: IH
 CHK: RHV
 DATE: APRIL 2021

WRA	2	AS BUILT	12-14-2022
WRA	1	AS BUILT "QUANTITIES"	12/8/22
BY	NO.	REVISION	DATE

FINAL WATER AND SEWER PLAN
COVER SHEET
 CONTRACT 14-4926-D
 600' SCALE MAP NO. 31 BLOCK NO. 9

OWNER
 HAMPTON HILLS, LLC
 3675 PARK AVE., SUITE 301
 ELLICOTT CITY, MD 21043
 (410) 480-0023

DEVELOPER
 TRINITY HOMES MARY LAND, LLC
 3675 PARK AVE., SUITE 301
 ELLICOTT CITY, MD 21043
 (410) 480-0023

HAMPTON HILLS
 LOTS 1-14 AND OPEN SPACE LOTS 15-17
 PARCEL 24 (L. 11433 / F. 112)
 4786 BONNIE BRANCH ROAD
 ELLICOTT CITY, MD 21043

TAX MAP: 31 GRID: 09, PARCEL: 24
 ZONING: R-20
 2ND ELECTION DISTRICT

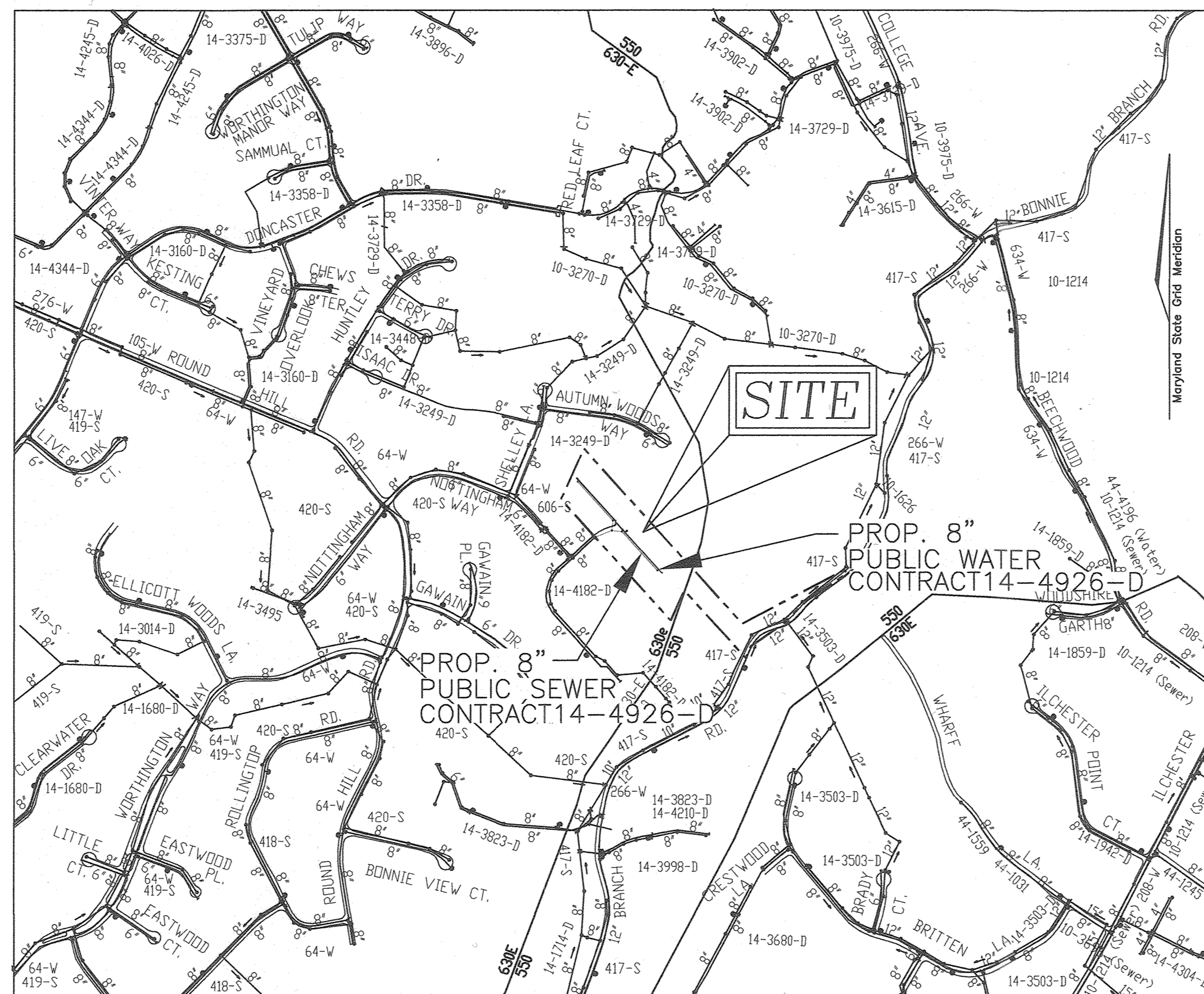
SCALE AS SHOWN
 SHEET 1 OF 3

FINAL WATER AND SEWER PLAN

HAMPTON HILLS

LOTS 1-14 AND OPEN SPACE LOTS 15-17

PARCEL 24 (L. 11433 / F. 112)
 4786 BONNIE BRANCH ROAD
 ELLICOTT CITY, MD 21043

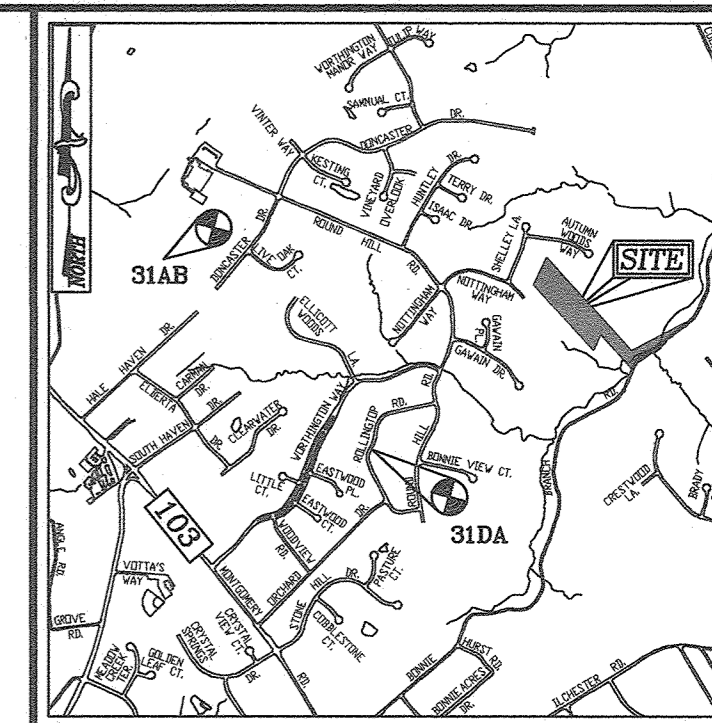


VICINITY MAP
 SCALE: 1"=600'

WATER ZONE: 630F
 TEST GRADIENT: 908
 TEST PRESSURE: 214 psi

Type of Building :	RESIDENTIAL
No. of Single Family Building :	14
No. of single Water House Connections :	14
No. of twin Water House Connections :	14
Sewer Shed :	PATAPSCO
Treatment Plant :	PATAPSCO RIVER

BENCHMARKS
 HOWARD COUNTY BENCHMARK 31AB (CONC. MON.)
 N 573984.52 E 1369949.46 ELEV. 499.945
 LOCATION: TRANSMISSION LINE 0.2 MILES EAST OF NEW CUT ROAD
 HOWARD COUNTY BENCHMARK 31DA (CONC. MON.)
 N 571982.70 E 1372145.06 ELEV. 481.604
 LOCATION: ROLLING TOP ROAD 0.1 MILES NORTH OF ORCHARD ROAD



LOCATION MAP
 SCALE: 1"=2,000'
 ADC MAP COORDINATE: MAP 28, GRID 5C

LEGEND

- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED TEE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- EXISTING SEWER
- SEWER MANHOLE
- PRIVATE WATER HOUSE CONNECTION
- PRIVATE SEWER
- PROPOSED SIGN
- PROPOSED LIGHT

SHEET INDEX

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

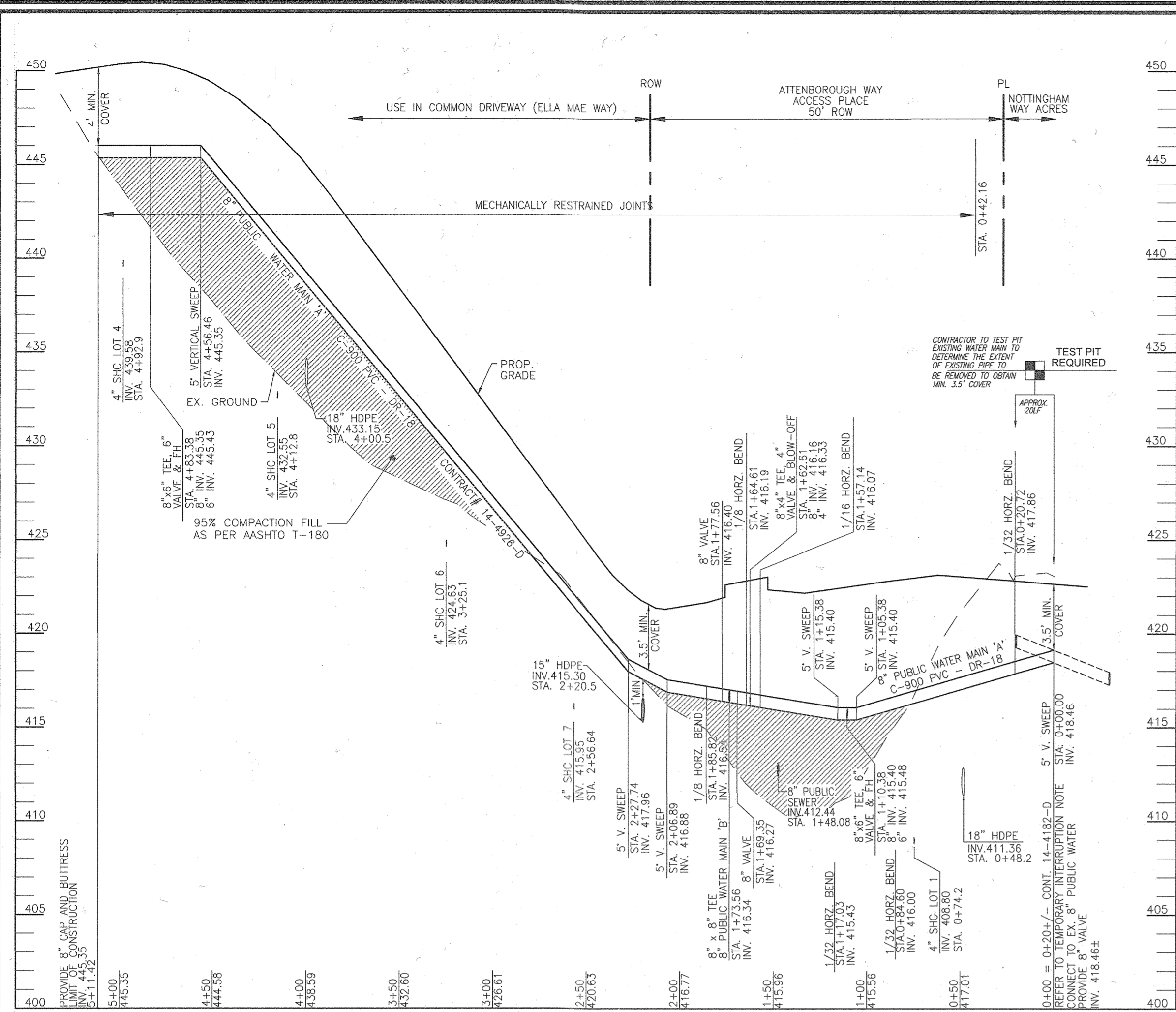
QUANTITIES

NAME OF UTILITY CONTRACTOR :				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
WATER				
8" WATER C-900, DR-18	899 LF	867 LF	C-900 Pvc	NORTH AMERICAN
6" DIP WATER (FH)	21 LF	15 LF	DIP	MUELLE
4" DIP WATER	8 LF	5 LF	DIP	MUELLE
8" X 8" TEE	1 EA.	1 EA.	SDR-35	GPK
8" X 6" TEE	2 EA.	2 EA.	SDR-35	GPK
8" X 4" TEE	1 EA.	1 EA.	SDR-35	GPK
8" VALVE	3 EA.	3 EA.	RS O/R	MUELLER
6" VALVE	2 EA.	2 EA.	RS O/R	MUELLER
4" VALVE	1 EA.	1 EA.	AS O/R	MUELLER
8" CAP	2 EA.	2 EA.	MJ EPOXY	STAR PIPE PRODUCTS
BLOW-OFF HYDRANT	1 EA.	1 EA.	DIP	MUELLER
8" - 1/8" H. BEND	3 EA.	3 EA.	SDR-35	GPK
8" - 1/16" H. BEND	1 EA.	1 EA.	SDR-35	GPK
8" - 1/32" H. BEND	3 EA.	3 EA.	SDR-35	GPK
8" - 5" V. SWEEP	8 EA.	5 EA.	PVC	PLASTIC TREND
1-1/2" WHIC	248 LF	217 LF	COPPER	CAMBRIDGE
1" OUTSIDE METER VAULT	14 EA.	14 EA.	CONCRETE	HORNE CONCRETE
SEWER				
8" SEWER PVC	814 LF	802 LF	PVC	J-M MANUFACTURING
SEWER MANHOLE	5 EA.	5 EA.	CONCRETE	U S FOUNDARY
SEWER DROP MANHOLE TYPE "A"	1 EA.	1 EA.	CONCRETE	U S FOUNDARY
SEWER DROP MANHOLE TYPE "B"	1 EA.	1 EA.	CONCRETE	U S FOUNDARY
4" SHC	263 LF	259 LF	PVC	J-M MANUFACTURING

EXISTING PROPERTIES TEMPORARY INTERRUPTION

EXISTING ADDRESS
 4783 ATTENBOROUGH WAY
 4787 ATTENBOROUGH WAY

CONTRACTOR SHALL PROVIDE ADVANCED NOTICE TO PROPERTY OWNERS



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

MINIMUM CELLAR ELEVATION (MCE)
DROP THRU SLAB = 2.5

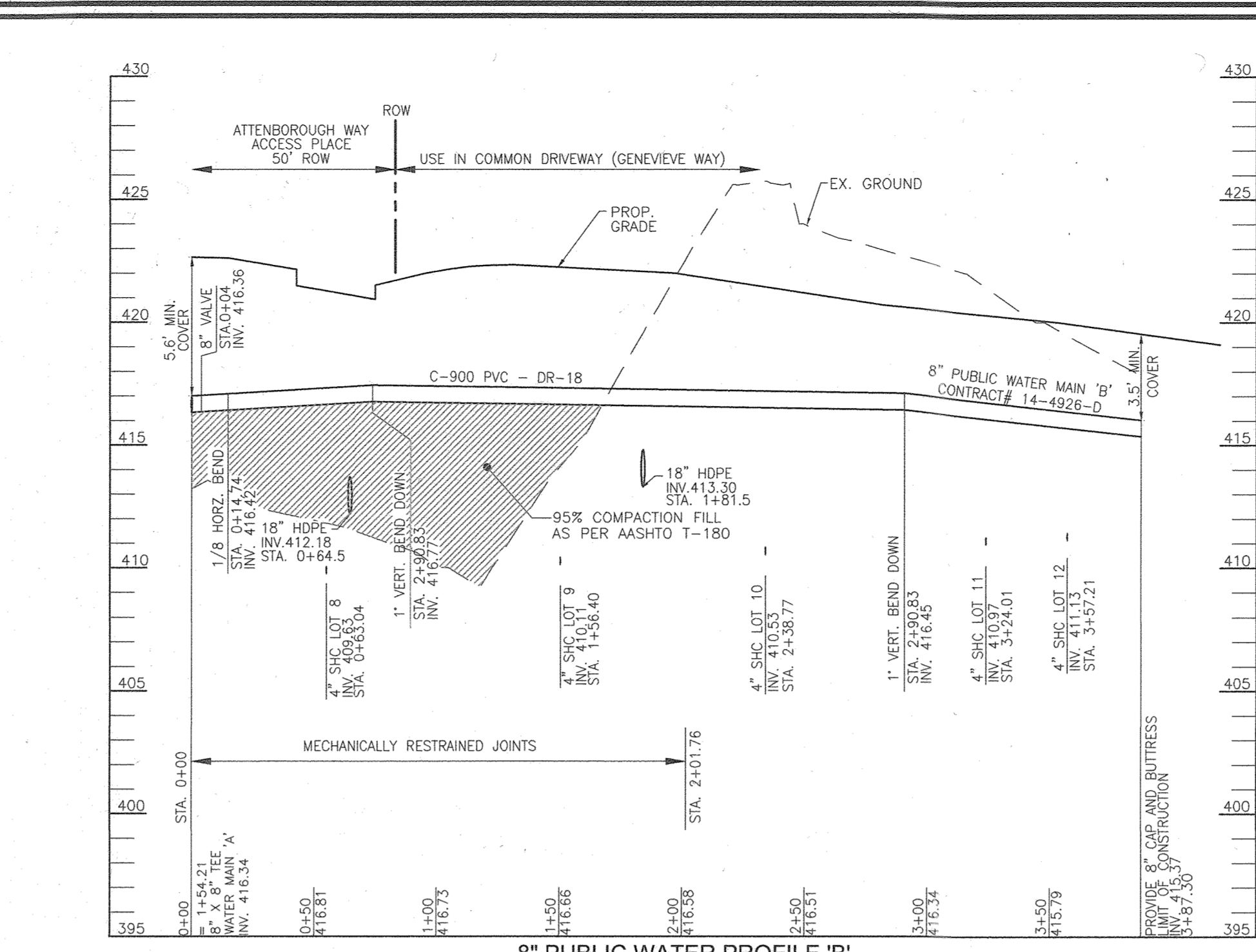
LOT #	INV. 4" SHC	TYPE	DIST TO ESMT/RW	EL. @ ROW/ESMT	DIST ESMT - HSE	SHC SLOPE	EL. @ HOUSE	MCE	BF ELEV
1	408.55	SINGLE	32.4	409.19	76.80	2.0%	410.72	413.22	421.00
2	430.34	SINGLE	11.2	429.56	72.30	2.0%	428.01	430.51	437.00
3	433.94	SINGLE	11.2	434.16	70.10	2.0%	432.96	435.06	443.30
4	439.36	MH	20.5	439.77	88.10	2.0%	441.53	444.03	446.00
5	432.34	SINGLE	20.8	432.75	79.90	2.0%	434.35	436.85	443.00
6	424.41	SINGLE	20.7	424.82	71.80	2.0%	426.28	428.78	435.00
7	415.78	MH	18.0	416.12	84.20	2.0%	417.40	419.90	422.50
8	409.43	MH	44.8	410.35	74.10	2.0%	411.81	414.31	418.00
9	409.01	SINGLE	20.7	410.32	72.90	2.0%	411.78	414.28	418.50
10	410.33	SINGLE	20.7	410.74	72.20	2.0%	412.18	414.68	415.00
11	410.78	SINGLE	20.7	411.19	72.80	1.0%	411.92	414.42	415.00
12	411.12	MH	20.0	411.52	78.70	1.0%	412.30	414.80	415.40
13	411.12	MH	10.0	411.32	72.90	1.0%	412.05	414.55	415.00
14	410.03	MH	10.7	410.84	56.00	1.0%	411.41	413.91	414.20

MANHOLE LOCATION CHART

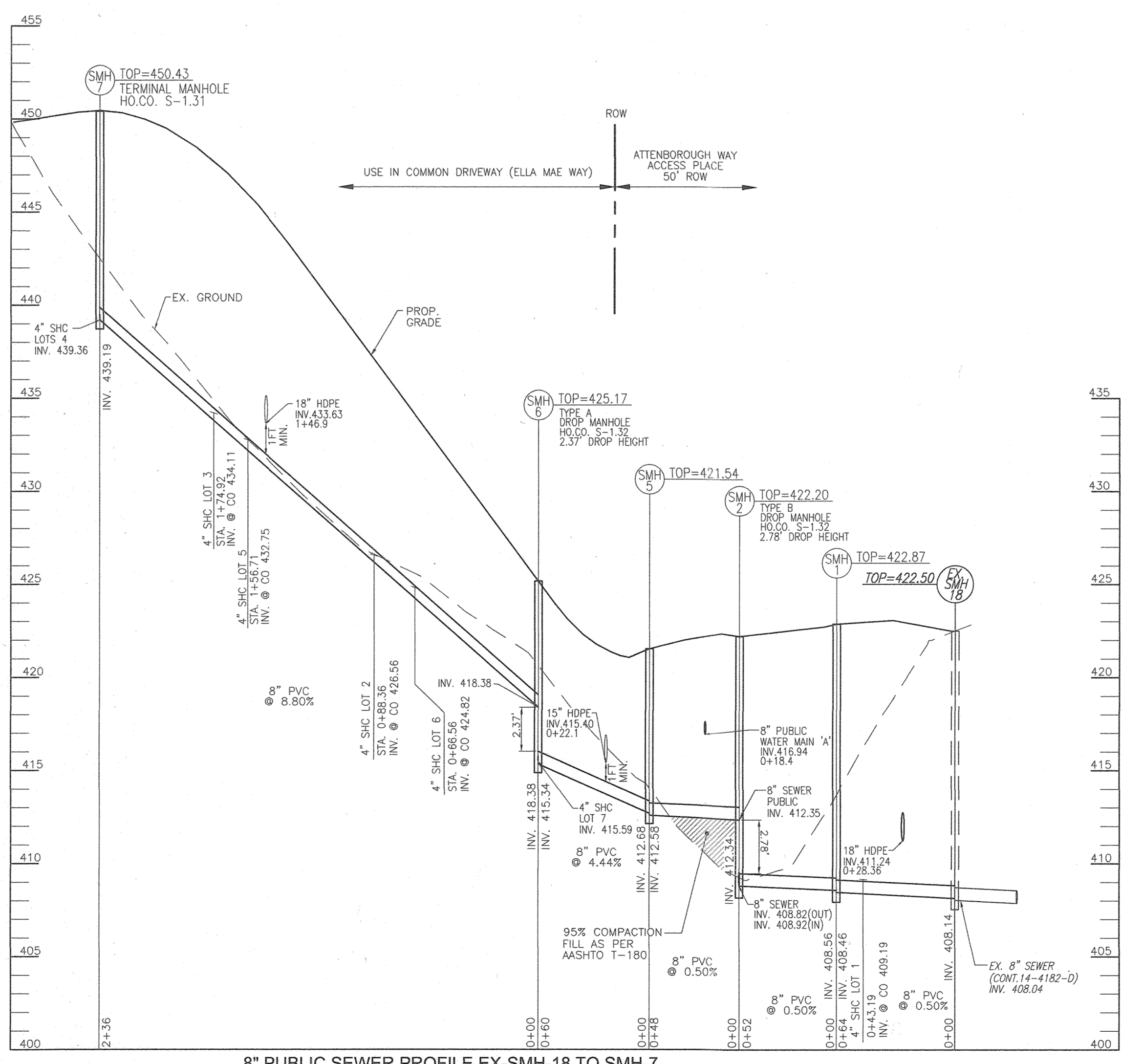
MH NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
EX. 18	STD. PRECAST MANHOLE (G-5.12)	N 573546.34 E 1374144.58	422.50	408.14	408.04*	
1	STD. PRECAST MANHOLE (G-5.12)	N 573533.55 E 1374093.89	422.87	409.00	408.46	
2	STD. PRECAST MANHOLE (G-5.12)	N 573546.34 E 1374144.57	422.20	408.92	408.82	DROP MANHOLE TYPE B, S-1.32
3	STD. PRECAST MANHOLE (G-5.12)	N 573544.57 E 1374192.91	421.49	409.24	409.16	
4	STD. PRECAST MANHOLE (G-5.12)	N 573318.91 E 1374397.52	420.27	-	410.78	TERMINAL MANHOLE, S-1.31
5	STD. PRECAST MANHOLE (G-5.12)	N 573594.68 E 1374145.13	421.54	412.68	412.58	
6	STD. PRECAST MANHOLE (G-5.12)	N 573638.08 E 1374105.84	425.17	418.38	415.34	DROP MANHOLE TYPE A, S-1.32
7	STD. PRECAST MANHOLE (G-5.12)	N 573813.21 E 1373947.27	450.43	-	439.19	TERMINAL MANHOLE, S-1.31

SEWER HOUSE CONNECTION - AS-BUILT LOCATION TABLE

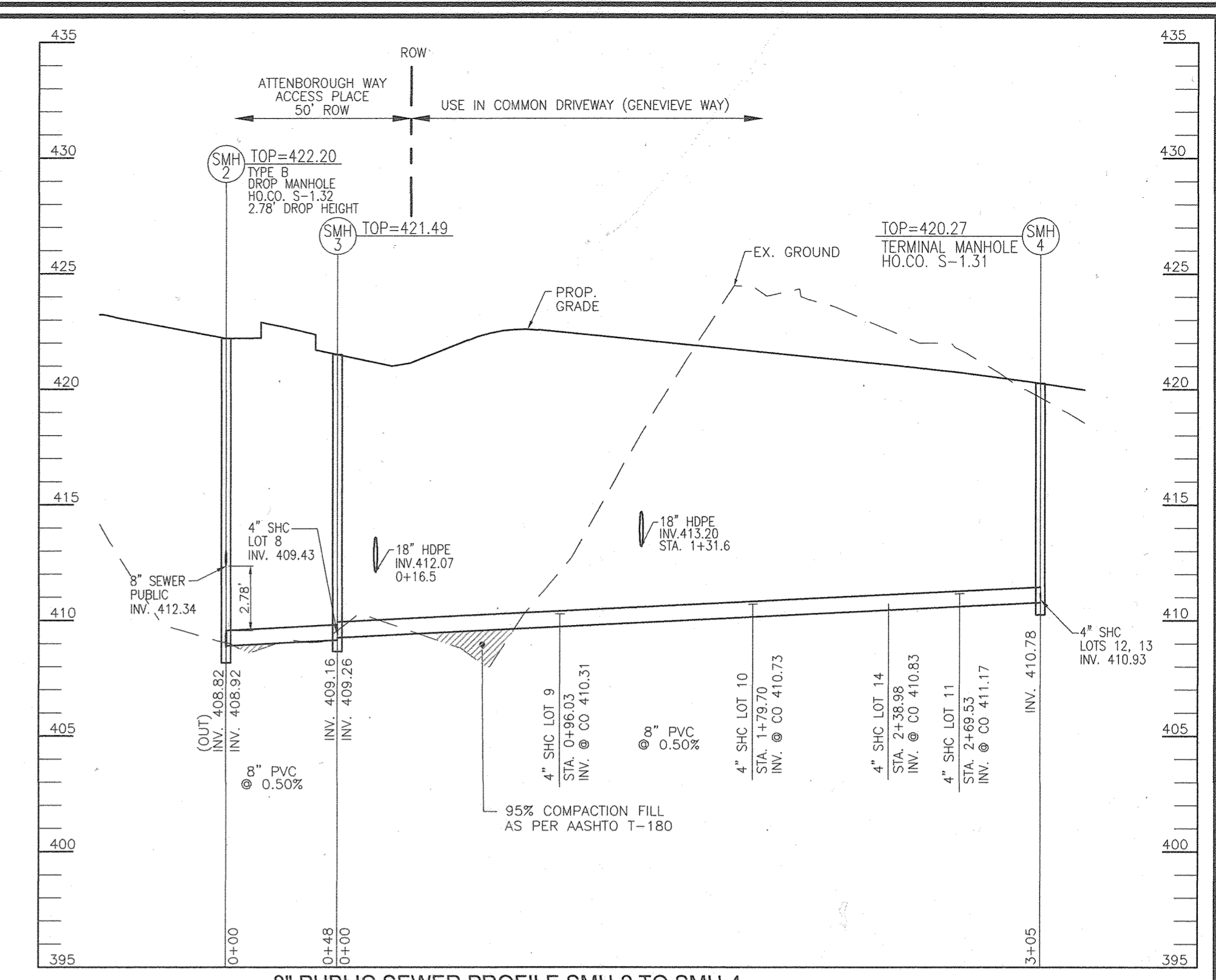
LOT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 1	ATTENBOROUGH WAY	WHC-1/16 FT	SMH-1/29 FT
LOT 2	ELLA MAE WAY	WHC-2/11 FT	SHC-6/38 FT
LOT 3	ELLA MAE WAY	WHC-3/11 FT	WHC-2/77 FT
LOT 4	ELLA MAE WAY	WHC-4/13 FT	SMH-7/28 FT
LOT 5	ELLA MAE WAY	WHC-5/8 FT	SHC-8/82 FT
LOT 6	ELLA MAE WAY	WHC-6/11 FT	SHC-7/68 FT
LOT 7	ELLA MAE WAY	WHC-7/11 FT	SMH-6/22 FT
LOT 8	ATTENBOROUGH WAY	WHC-8/42 FT	SMH-3/44 FT
LOT 9	GENEVEE WAY	WHC-9/11 FT	WHC-10/72 FT
LOT 10	GENEVEE WAY	WHC-10/10 FT	SHC-11/90 FT
LOT 11	GENEVEE WAY	SHC-10/90 FT	WHC-11/9 FT
LOT 12	GENEVEE WAY	WHC-12/26 FT	SMH-4/20 FT
LOT 13	GENEVEE WAY	WHC-13/105 FT	SMH-4/14 FT
LOT 14	ATTENBOROUGH WAY	WHC-14/19 FT	SHC-11/45 FT



8" PUBLIC WATER PROFILE 'B'
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



8" PUBLIC SEWER PROFILE EX-SMH-18 TO SMH-7
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



8" PUBLIC SEWER PROFILE SMH-2 TO SMH-4
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'

WATER MAIN LOCATION CHART

WATERLINE 'A'			
STATION	APPURTENANCE	NORTHING	EASTING
0+00.00	5" V. SWEEP DOWN	573492.2181	1374017.6996
0+20.72	1/32 HORIZONTAL BEND	573506.0646	1374033.1196
0+84.60	1/32 HORIZONTAL BEND	573541.8434	1374086.0395
1+05.38	5" V. SWEEP UP	573550.3758	1374104.9348
1+10.38	8" X 6" TEE, 6" VALVE, & FIRE HYDRANT	573552.4511	1374109.5306
1+15.38	5" V. SWEEP UP	573554.4913	1374114.0487
1+17.03	1/32 HORIZONTAL BEND	573555.189	1374115.5937
1+67.14	1/16 HORIZONTAL BEND	573566.0958	1374154.1939
1+62.61	8" X 4" TEE, 4" VALVE, BLOW-OFF	573569.7697	1374158.2457
1+64.61	1/8 HORIZONTAL BEND	573571.113	1374159.7285
1+69.35	8" VALVE	573576.0421	1374159.9716
1+73.56	8" X 8" TEE, CONNECT TO 8" WATER MAIN 'B'	573580.0658	1374160.1719
1+77.56	8" VALVE	573584.0551	1374160.367
1+85.82	1/8 HORIZONTAL BEND	573592.3067	1374160.774
2+06.89	5" V. SWEEP	573607.9256	1374146.6321
2+27.74	5" V. SWEEP	573623.3815	1374132.8379
4+56.46	5" V. SWEEP	573792.9249	1373979.1275
4+83.38	8" X 6" TEE, 6" VALVE, & FIRE HYDRANT	573812.8769	1373961.0621
5+114.2	8" CAP AND BUTTRISS	573833.6661	1373942.239

WATERLINE 'B'		
STATION	NORTHING	EASTING
0+00	8" X 8" TEE, CONNECT TO 8" WATER MAIN 'A'	573580.0658
0+04.00	8" VALVE	573578.8676
0+73.98	1" VERT. BEND DOWN	573535.4548
0+14.74	1/8 HORIZONTAL BEND	573578.3441
2+90.83	1" VERT. BEND DOWN	573374.8105
3+67.30	8" CAP AND BUTTRISS	573303.3439

WATER HOUSE CONNECTION - AS-BUILT LOCATION TABLE

LOT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 1	ATTENBOROUGH WAY	SMH-1/33 FT	SHC-1/16 FT
LOT 2	ELLA MAE WAY	SHC-5/77 FT	SHC-2/11 FT
LOT 3	ELLA MAE WAY	SMH-7/51 FT	SHC-3/11 FT
LOT 4	ELLA MAE WAY	SHC-4/35 FT	SMH-7/35 FT
LOT 5	ELLA MAE WAY	FHT-2/57 FT	SHC-5/8 FT
LOT 6	ELLA MAE WAY	SHC-8/82 FT	SHC-6/11 FT
LOT 7	ELLA MAE WAY	SHC-7/11 FT	SMH-6/27 FT
LOT 8	ATTENBOROUGH WAY	SHC-8/42 FT	SMH-3/44 FT
LOT 9	GENEVEE WAY	SHC-9/92 FT	SHC-7/11 FT
LOT 10	GENEVEE WAY	SHC-9/72 FT	SHC-10/10 FT
LOT 11	GENEVEE WAY	SHC-11/9 FT	SHC-12/24 FT
LOT 12	GENEVEE WAY	SHC-12/26 FT	SMH-4/33 FT
LOT 13	GENEVEE WAY	SMH-4/18.5 FT	SHC-13/10.5 FT
LOT 14	GENEVEE WAY	SHC-14/9 FT	SHC-13/54 FT

OWNER
HAMPTON HILLS, LLC
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

DEVELOPER
TRINITY HOMES MARY LAND, LLC.
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

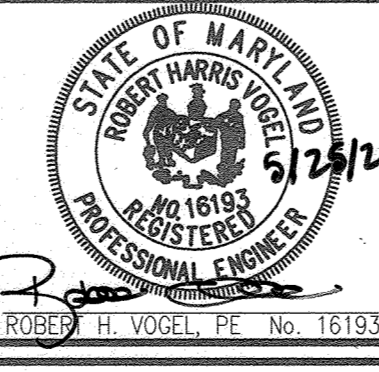
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Don Sharp
CHIEF, BUREAU OF UTILITIES
DATE: 6-9-21

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Michael L...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 6-22-21

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT 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: 09-27-2022.

DRN: IH DES: IH
CHK: RHV
DATE: APRIL 2021

BY: WRA NO. AS-BUILT REVISION DATE: 12/8/2023

FINAL WATER AND SEWER PLAN
WATER AND SEWER PROFILES
CONTRACT 14-4926-D

HAMPTON HILLS
LOTS 1-14 AND OPEN SPACE LOTS 15-17
PARCEL 24 (L 11433 / F 112)
4766 BONNIE BRANCH ROAD
ELLCOTT CITY, MD 21043

SCALE AS SHOWN
SHEET 3 OF 3

TAX MAP: 31 GRID: 09, PARCEL: 24
ZONING: R-20
2ND ELECTION DISTRICT

600' SCALE MAP NO. 31 BLOCK NO. 9