

QUANTITIES		AS-BUILT		SUPPLIER
ITEM	ESTIMATED	QUANTITIES	TYPE	
8" PVC SDR-35	839 L.F.			
8" CL. 52 D.I.P.	- L.F.			
8" SHC	554 L.F.			
MANHOLES	5 EACH			
CLEAN-OUTS	18 EACH			
8" W C900 PVC DR-18	987 L.F.			
8" W C900 PVC DR-18	67 L.F.			
1-1/2" WVC	653 L.F.			
1/8" H.B.	4 EACH			
1/32" V.B.	-			
1" DEFLECTION COUPLING	4 EACH			
2" DEFLECTION COUPLING	2 EACH			
3" DEFLECTION COUPLING	2 EACH			
12" X 1/2" TAPPING SLEEVE	1 EACH			
8" TAPPING VALVE	1 EACH			
8" VALVE	1 EACH			
8" VALVE	3 EACH			
FIRE HYDRANT	3 EACH			
CONTINUITY TEST STATION	3 EACH			
OUTSIDE METER SETTING	18 EACH			

BENCHMARK INFORMATION
 B.M.#1 - HOWARD COUNTY CONTROL STATION #0023 - HORIZONTAL - (NA'83)
 (LOCATED ALONG THE WEST SIDE OF CENTENNIAL LANE, APPROX. 92' SOUTH-EAST FROM THE CORNER OF CENTENNIAL HIGH SCHOOL & APPROX. 89' WEST OF CENTENNIAL LANE PAVING)
 N 577,373.143
 E 1,349,751.273
 ELEVATION = 479.248 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #30AB - HORIZONTAL - (NAID '83)
 (LOCATED ALONG THE WEST SIDE OF CENTENNIAL LANE, APPROX. 5.4' BEHIND THE GUARD RAIL AND APPROX. 47.5' NORTH WEST FROM THE END OF THE GUARD RAIL)
 N 573,239.305
 E 1,349,547.546
 ELEVATION = 361.900 - VERTICAL - (NAVD '88)

PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
05	4509 CENTENNIAL LANE	ROBERT & HELEN SPEDDEN	ON PUBLIC	YES

NOTE: WATER METERS WILL NOT BE RELEASED BY HOWARD COUNTY TO ANY NEW BUILDING UNTIL THE EXISTING WELLS AND SEPTIC SYSTEMS HAVE BEEN ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS AND THE EXISTING BUILDINGS ARE CONNECTED TO THE PUBLIC WATER AND SEWER MAINS.
 Contact Howard County Utilities prior to showing off any valves.

DEVELOPER'S CERTIFICATION
 I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Kriebel, FOR:
 Centennial Reserve, LLC
 SIGNATURE OF DEVELOPER
 07-28-20
 DATE

ENGINEER'S CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

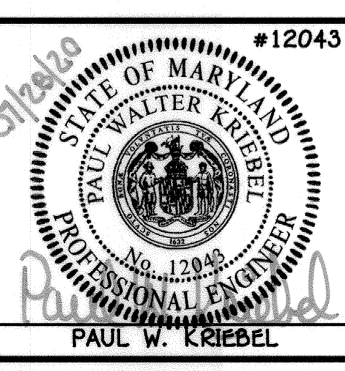
Paul W. Kriebel
 SIGNATURE OF ENGINEER
 07/28/20
 DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME 10: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE ROAD CONSTRUCTION PLANS, F-20-010
 Paul W. Kriebel, FOR:
 Centennial Reserve, LLC
 SIGNATURE OF DEVELOPER
 07-28-20
 DATE

F-20-010
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 APPROVED:
 Howard Soil Conservation District
 DATE: 8/19/20

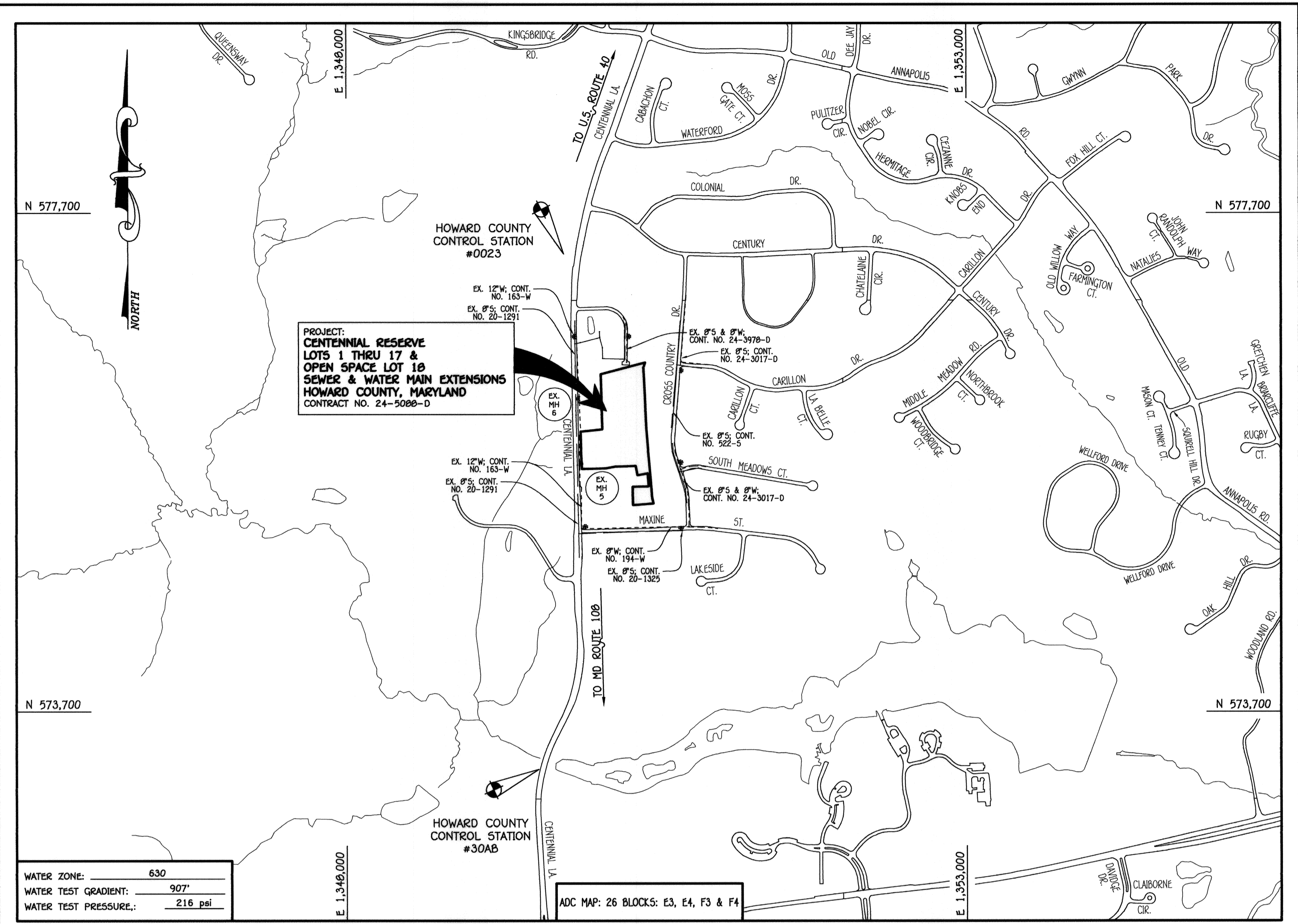
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 8-6-2020
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 DATE: 8-26-20
 CHIEF, DEVELOPMENT ENGINEERING DIVISION



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. 12043 EXPIRATION DATE IS 7/16/22.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2222
 DESIGNED BY: P.W.K.
 DRAWN BY: T.C.R.
 CHECKED BY: P.W.K.
 DATE: JULY, 2020

600' SCALE MAP NO. 30 BLOCK NO. 1
 F.C.C. WORK ORDER NO. 30501
 FILE NAME: SEWER & WATER MAIN EXTENSION PLAN



TYPE OF BUILDING:	RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS:	18 (1 OPEN SPACE)
NO. OF WATER HOUSE CONNECTIONS:	18
NO. OF SEWER HOUSE CONNECTIONS:	18
SEWER SHED:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, MARYLAND

LOCATION MAP
 SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
 82-19-022
 89-19-001
 F-20-010(PUBLIC ROAD & RECORD PLAN)

CONTRACT NO. 24-5088-D

CENTENNIAL RESERVE

LOTS 1 THRU 17 &

OPEN SPACE

LOT 18

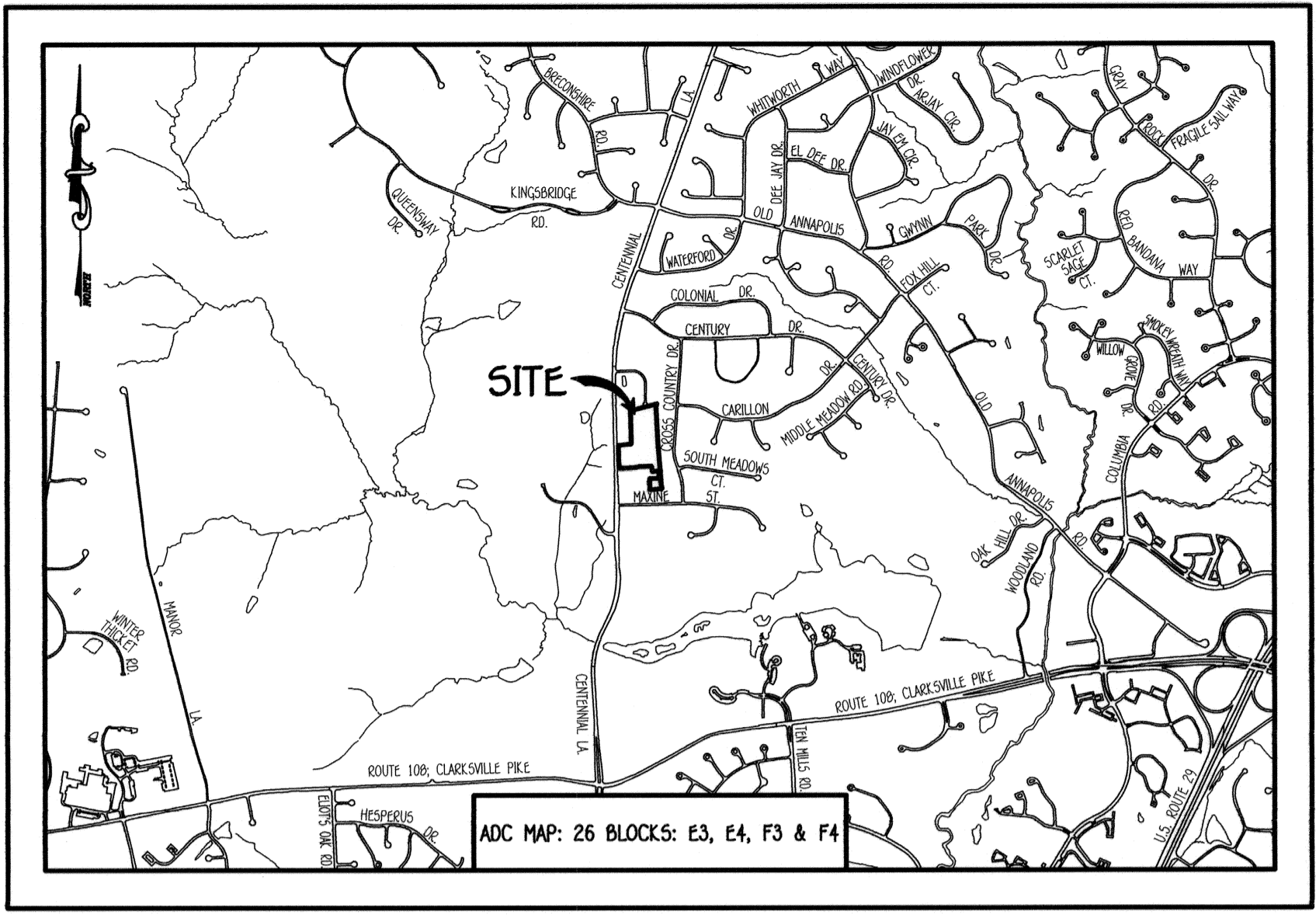
SEWER & WATER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
○	EX. SEWER MANHOLE
---	EX. SEWER, WATER & UTILITY EASEMENT
---	EX. FIRE HYDRANT
○	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
○	PROP. SEWER MANHOLE
---	PROP. SEWER, WATER & UTILITY EASEMENT
---	PROP. WVC
---	PROP. SHC
○	PROP. FIRE HYDRANT
○	PROP. VALVE

OWNERS
 PARCEL 04
 LENNIS HARRICK
 4489 CENTENNIAL LANE
 ELLICOTT CITY, MD 21042
 PARCEL 05
 ROBERT & HELEN SPEDDEN
 3710 SAN CAROL DRIVE
 PENSACOLA, FL 32504
 PARCEL 17A
 CHARLES & SHIRLEY HARDY
 10222 MAXINE STREET
 ELLICOTT CITY, MD 21042

DEVELOPER
 CENTENNIAL RESERVE, LLC
 7017 MEANDERING STREAM WAY
 FULTON, MD 20799



GENERAL NOTES
 SCALE: 1" = 200'

- PART A**
- 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 OR ABOUT SEPTEMBER, 2018 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS:
 - THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM MAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 0023 & NO. 30AB.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD '83. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
 - 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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 SITE.
 - 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 DRUG 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 (EMERGENCY)	410-637-8713
BUREAU OF UTILITIES	410-685-0123
COLONIAL PIPELINE CO	410-513-4900
MESS UTILITY	410-795-1390
STATE HIGHWAY ADMINISTRATION	1-800-957-7777
VERIZON	410-531-5533
	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.
 - 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)-513-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING ANY COUNTY ROAD FOR LAYING WATER/SEWER OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(f) OF THE HOWARD COUNTY CODE.

- PART B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE AWMA C900 PVC, DR-18.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
 - 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.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR.
 - 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.
 - TRACES WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND PVC WATER MAINS IN ACCORDANCE WITH 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 AWMA 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, SEVENTEEN (17) POUND 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. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HANGERS. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL TREE TRUNKS 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 SHALL 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, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.
 - PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWMA C900. SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTYPE 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 AWMA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR-18 OR EQUAL.
 - WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWMA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSERT DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE 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 HIGH-STOP, AS MANUFACTURED BY ESKA IRON, INC. OR APPROVED EQUAL. TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING; STD. DET. W-3.28.

PART C: SEWER MAIN GENERAL NOTES

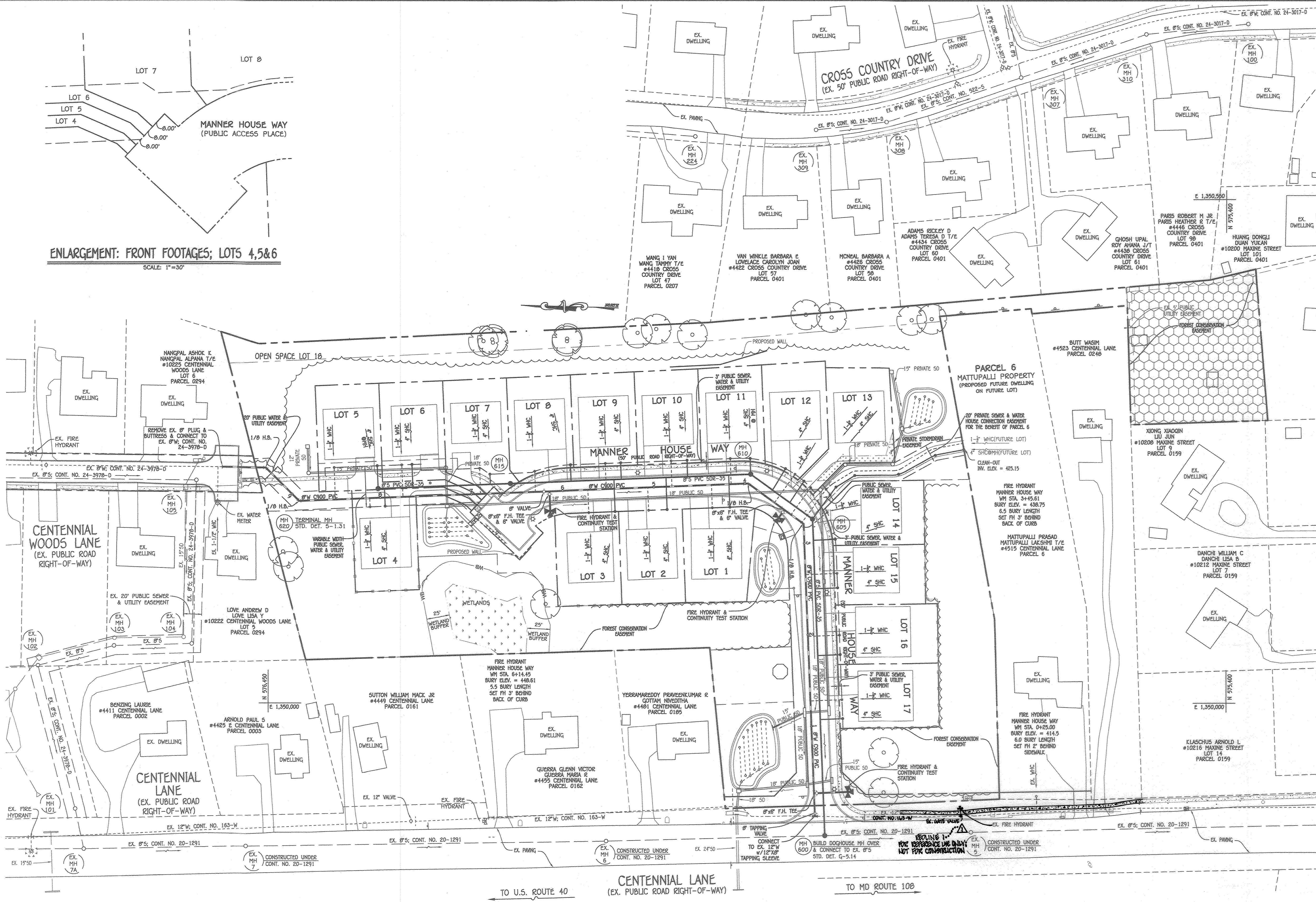
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVER, STANDARD DETAIL G5-52. WHERE WATER-TIGHT 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.

CENTENNIAL RESERVE
 LOTS 1 THRU 17 &
 OPEN SPACE LOT 18
 SEWER & WATER MAIN EXTENSIONS
 CONTRACT NO. 24-5088-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

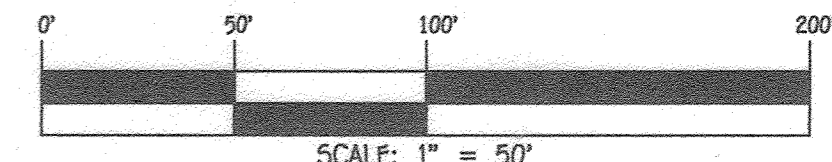
AS SHOWN
 SHEET 1 OF 4

K:\Drawings\310501-Centennial Lane - Spedden\DWG\Sewer & Water Contract Plan.dwg, Title Sheet 1, 7/28/2020 11:16:36 AM

ENLARGEMENT: FRONT FOOTAGES; LOTS 4,5&6
SCALE: 1"=30'



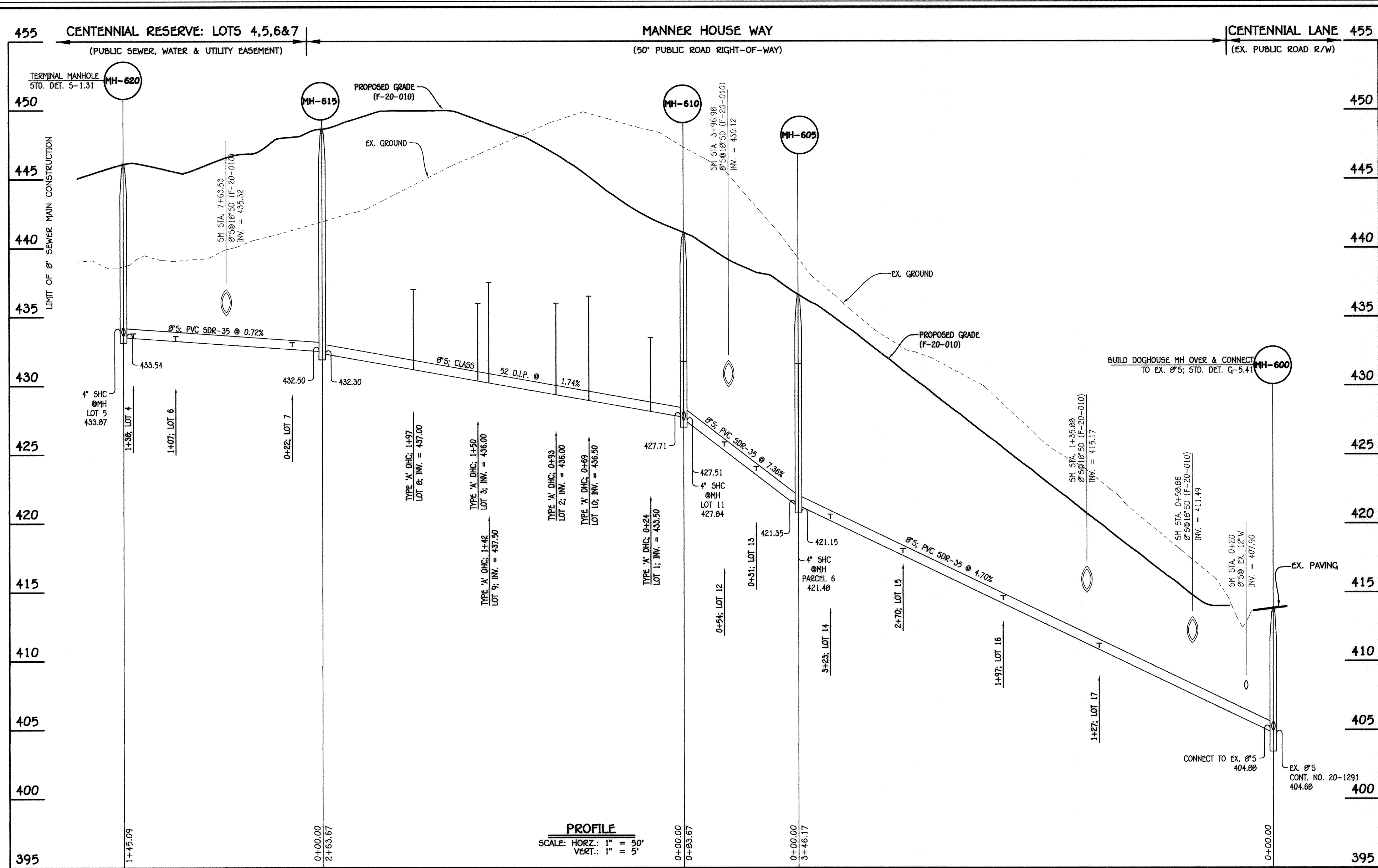
PLAN
SCALE: 1" = 50'



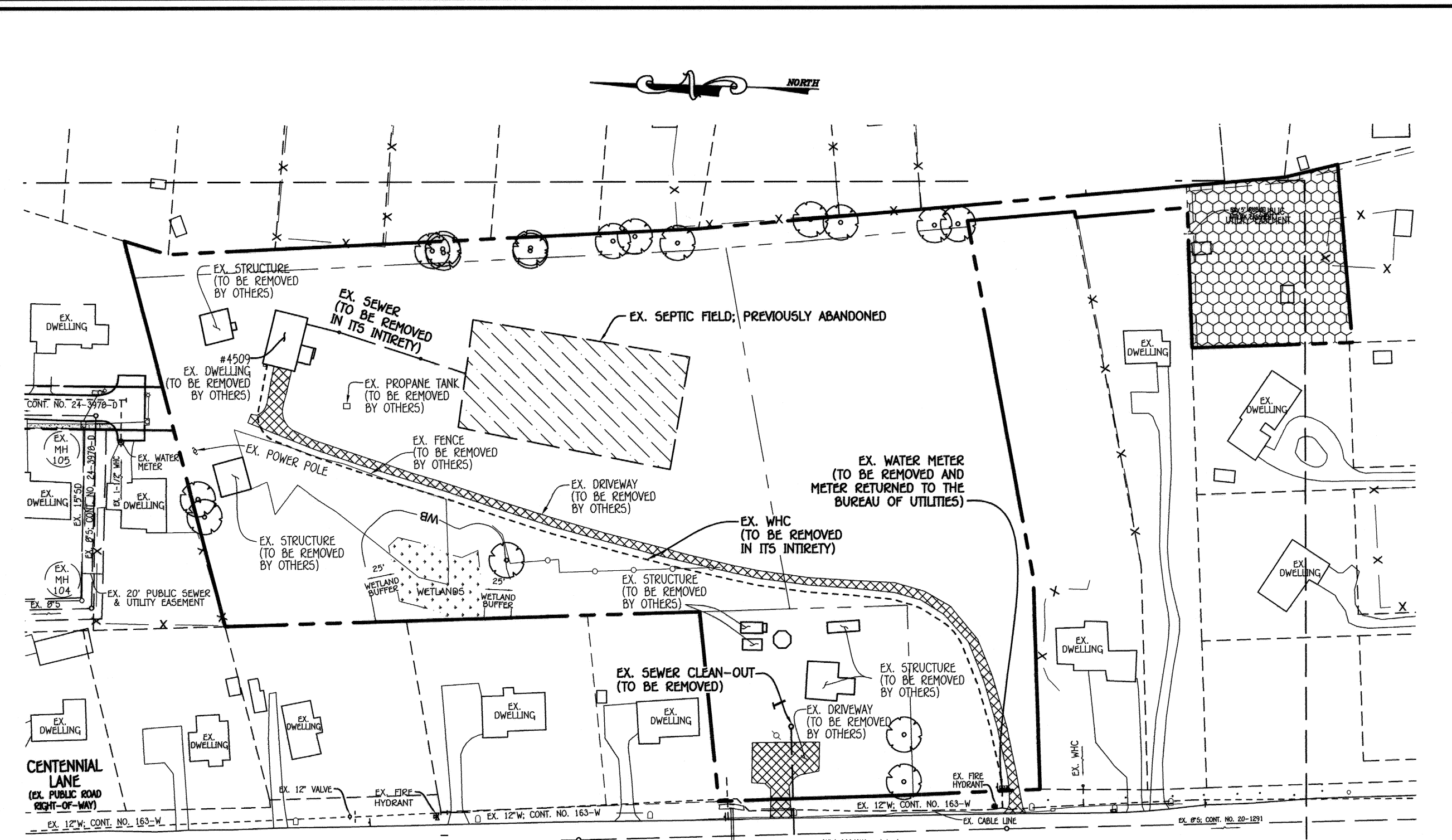
CONTRACT NO. 24-5008-D
CENTENNIAL RESERVE
LOTS 1 THRU 17 &
OPEN SPACE LOT 18
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> CHIEF, BUREAU OF UTILITIES</p> <p>DATE: 8-5-2020</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION</p> <p>DATE: 8-26-20</p>	<p>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. 12043 EXPIRATION DATE IS 7/11/22.</p> <p>FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE: PARK - 10272 BALDWIN NATIONAL PIKE ELLSWORTH CITY, MARYLAND 21040 (410) 461-2295</p> <p><i>[Signature]</i> PAUL W. KNEBEL</p>	<p>DESIGNED BY: P.W.K. DRAWN BY: T.C.R. CHECKED BY: P.W.K. DATE: JULY, 2020</p>	<p>BY NO. REVISION DATE</p> <p>1. CORRECT "AS-BUILT" LOCATION OF EX. FIRE HYDRANT + PROPOSED SIDEWALK 5/3/22</p>	<p>SEWER & WATER MAIN EXTENSIONS PLAN & ENLARGEMENT: FRONT FOOTAGES</p> <p>600' SCALE MAP NO. 30 BLOCK NO. 1 F.C.C. WORK ORDER NO. 30501 FILE NAME: SEWER & WATER MAIN EXTENSION PLAN</p>	<p>CENTENNIAL RESERVE LOTS 1 THRU 17 & OPEN SPACE LOT 18 SEWER & WATER MAIN EXTENSIONS CONTRACT NO. 24-5008-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p>	<p>AS SHOWN SHEET 2 OF 4</p>
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K:\Drawings\245001-Centennial Lane - Sewer and Water Main Extensions - Spelling/Check/Gen & Water Contract Plans - Plan Sheet 2 - 7/28/2020 11:12:15 AM
 11



8" SEWER MAIN: MH 600 TO MH 615; MANNER HOUSE WAY



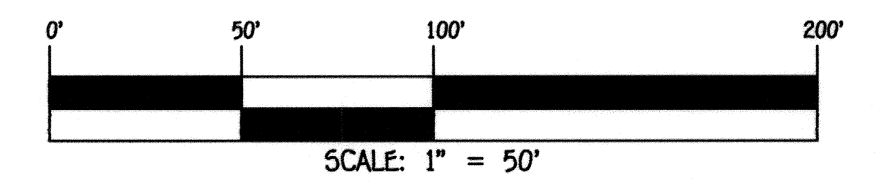
ABANDONMENT PLAN
SCALE: 1" = 100'

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
600	575839.37	1349855.11	413.89
605	575853.33	1350201.00	436.59
610	575921.21	1350249.93	442.39
615	576184.68	1350239.72	447.95
620	576329.66	1350234.09	445.15

NOTE: SET MH RIMS FLUSH W/PROPOSED OR EXISTING GRADE, AS APPLICABLE.

SEWER HOUSE CONNECTION CHART						
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
MH 600 TO MH 605						
1+27 RT.	17 @ 1.00%	411.02	411.25	415.05	415.10	424.90
1+97 RT.	16	414.31	414.77	419.67	420.45	430.25
2+70 RT.	15	417.74	418.20	423.20	426.00	435.80
3+23 RT.	14	420.23	420.71	425.91	428.72	438.52
●MH 605	PARCEL 6 (1.00%)	423.23	423.55	429.35	429.40	439.20
MH 605 TO MH 610						
0+31 RT.	13	423.80	424.36	429.36	433.67	443.47
0+54 RT.	12	425.49	426.05	431.05	433.89	443.69
●MH 610	11	427.84	428.18	433.18	437.41	447.21
MH 610 TO MH 615						
0+24 LT.	1(DHC)	433.50	434.20	439.20	439.38	449.18
0+69 RT.	10(DHC)	436.50	436.86	441.76	442.36	452.16
0+93 LT.	2(DHC)	436.00	436.70	441.60	442.97	452.77
1+42 LT.	9(DHC)	437.50	437.86	442.76	444.47	454.27
1+50 LT.	3(DHC)	436.00	436.70	442.00	443.79	453.59
1+97 RT.	8(DHC)	437.00	437.36	442.46	444.26	454.06
MH 615 TO MH 620						
0+22 RT.	7	432.64	433.03	438.23	441.27	451.07
1+07 RT.	6	433.26	433.64	438.44	440.07	449.87
1+38 LT.	4	433.66	434.06	438.86	439.22	449.02
●MH 615 RT.	5(●1.00%)	433.87	433.97	436.82	436.62	448.42

SEWER HOUSE CONNECTION A5-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
PARCEL 6			

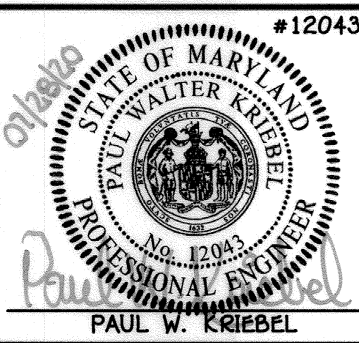


CONTRACT NO. 24-5088-D
CENTENNIAL RESERVE
LOTS 1 THRU 17 &
OPEN SPACE LOT 18
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-5-2020
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
8-26-20
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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LICENSE NO. 12043 EXPIRATION DATE IS 7/16/22.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895

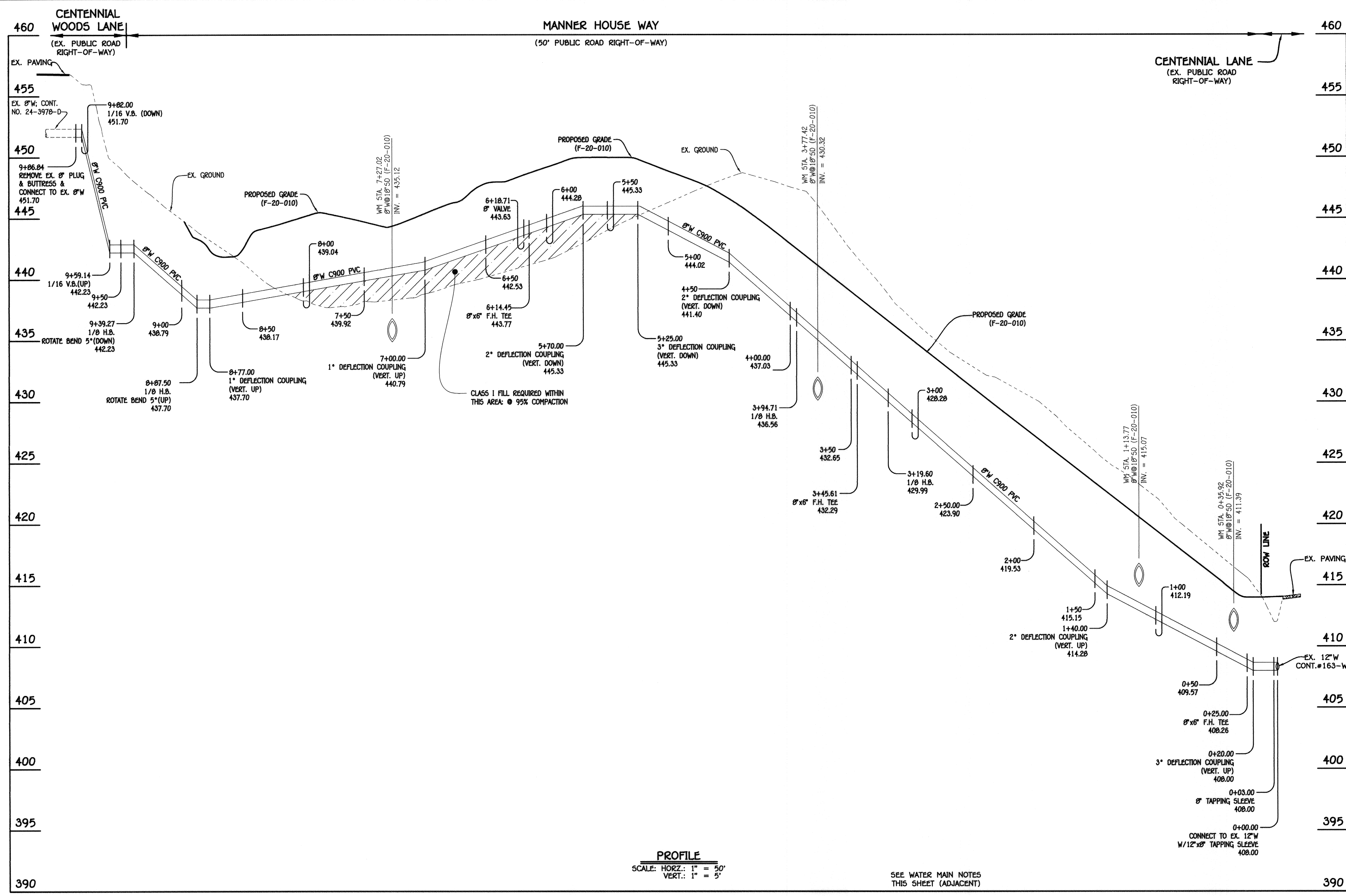


DESIGNED BY: P.W.K.
DRAWN BY: T.C.R.
CHECKED BY: P.W.K.
DATE: JULY, 2020
BY NO. REVISION

SEWER MAIN EXTENSION
PROFILE, CHARTS, "A5-BUILT" TABLE
& ABANDONMENT PLAN
600' SCALE MAP NO. 30 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30501
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

CENTENNIAL RESERVE
LOTS 1 THRU 17 &
OPEN SPACE LOT 18
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 24-5088-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

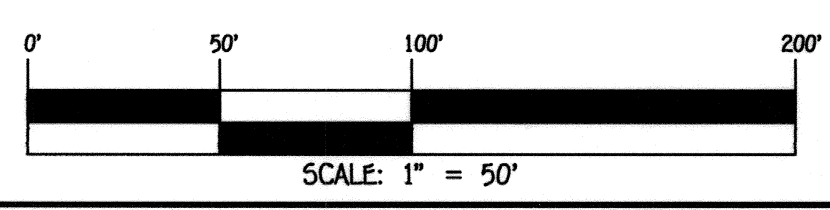
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3 OF 4



WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: MANNER HOUSE WAY			
0+00.00	12" X 8" TAPPING SLEEVE	575950.24	1349876.41
0+03.00	8" TAPPING SLEEVE	575950.36	1349879.40
0+25.00	8" X 6" F.H. TEE	575951.24	1349901.44
3+19.60	1/8" H.B.	575963.13	1350195.75
3+47.35	8" X 6" F.H. TEE	575984.19	1350211.01
3+94.71	1/8" H.B.	575923.95	1350239.82
6+14.45	8" X 6" F.H. TEE	576141.78	1350231.37
6+18.71	8" VALVE	576147.78	1350231.14
8+87.50	1/8" H.B.	576416.36	1350220.73
9+39.27	1/8" H.B.	576453.15	1350257.16
9+86.84	CONNECT TO EX. 8" W	576500.71	1350257.68

- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
 2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
PARCEL 6			



CONTRACT NO. 24-5088-D
CENTENNIAL RESERVE
LOTS 1 THRU 17 &
OPEN SPACE LOT 18
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities DATE: 8-6-2020	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division DATE: 8-26-20	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. 12043 EXPIRATION DATE IS 7/16/22. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELIXOTT CITY, MARYLAND 21042 (410) 461-2899	#12043 DESIGNED BY : DRAWN BY : CHECKED BY : DATE : JULY, 2020	WATER MAIN EXTENSION PROFILE, TABULATION CHART, NOTES & "AS-BUILT" TABLE 600' SCALE MAP NO. 30 BLOCK NO. 1 F.C.C. WORK ORDER NO. 30501 FILE NAME : SEWER & WATER MAIN EXTENSION PLAN	CENTENNIAL RESERVE LOTS 1 THRU 17 & OPEN SPACE LOT 18 SEWER & WATER MAIN EXTENSIONS CONTRACT NO. 24-5088-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	AS SHOWN
						SHEET 4 OF 4

K:\Drawings\3130501 Centennial Lane - Spackelburg\Sewer & Water Contract No. 24-5088-D\Final Sewer and Water Contract Planning, Profile, Sheet 4, 7/22/2020 11:36:18 AM