

QUANTITIES			
ITEM	ESTIMATED	QUANTITIES	AS-BUILT TYPE
8" PVC, SDR-35	403 L.F.	367	Pvc/Plastic National Pipe
4" SHC	52 L.F.	80.5	Pvc/Plastic National Pipe
CLEAN-OUTS	5 EACH	5	Concrete Prism Pre-cast
MANHOLES	4 EACH	5	Concrete Atlantic
6" W, C900 PVC, DR-18	270 L.F.	271	Pvc/Plastic National Pipe
1-1/2" WHC	98 L.F.	(0)	Type K Copper Cambridge Lee
1/16 H.B.	1 EACH	1	Ductile Iron Star Pipe
1/32 H.B.	2 EACH	2	Ductile Iron Star Pipe
12" X 6" TAPPING SLEEVE	1 EACH	1	Stainless Ford Meter Box
6" TAPPING VALVE	1 EACH	1	Ductile Iron American Flow
6" PLUG & BUTTRESS	1 EACH	1	DIP/Concrete Star Pipe
6" X 6" F.H. TEE	1 EACH	1	Ductile Iron Star Pipe
FIRE HYDRANT	1 EACH	1	Ductile Iron American Flow
CONTINUITY TEST STATION	1 EACH	1	Concrete Prism Pre-cast
OUTSIDE METER SETTING	5 EACH	5	Bricks At Metroland
6" DIP	No top	16	Ductile Iron 16 Pipe

NAME OF UTILITY CONTRACTOR: **Grimes & Company**
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: **6-8-2023**

BENCHMARK INFORMATION
 B.M.#1 - HOWARD COUNTY CONTROL STATION #34FB - HORIZONTAL - (NA'83)
 (LOCATED EAST OF ERIN DRIVE, ALONG GUILFORD ROAD, APPROX. 21' BEHIND EDGE OF PAVING)
 N 957,439.90
 E 1,330,191.36
 ELEVATION = 406.15 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #34FE - HORIZONTAL - (NAID '83)
 (LOCATED WEST OF GALWAY DRIVE, ALONG GUILFORD ROAD EAST OF DRIVEWAY #221 SET BEHIND THE EXISTING FIRE HYDRANT)
 N 558,339.58
 E 1,329,709.08
 ELEVATION = 431.11 - VERTICAL - (NAVD '88)

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
56	6301 ROUTE 32	MR. LUTFI & MR. LEVENT MUSLU	NO	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.

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. Koebel, FOR:
 Mr. Lutfi On
 SIGNATURE OF DEVELOPER
 12/08/21
 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. Koebel
 SIGNATURE OF ENGINEER
 12-08-21
 DATE

F-21-021

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

Paul W. Koebel, FOR:
 Mr. Lutfi On
 SIGNATURE OF DEVELOPER
 12/08/21
 DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

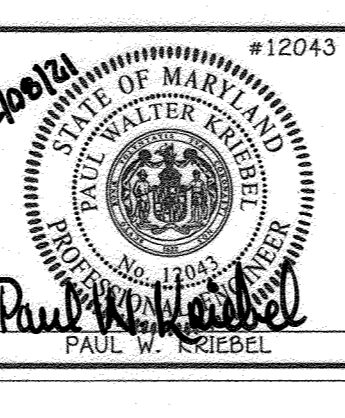
12-15-21
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

1. 11. 22
 DATE

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
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461 - 2995



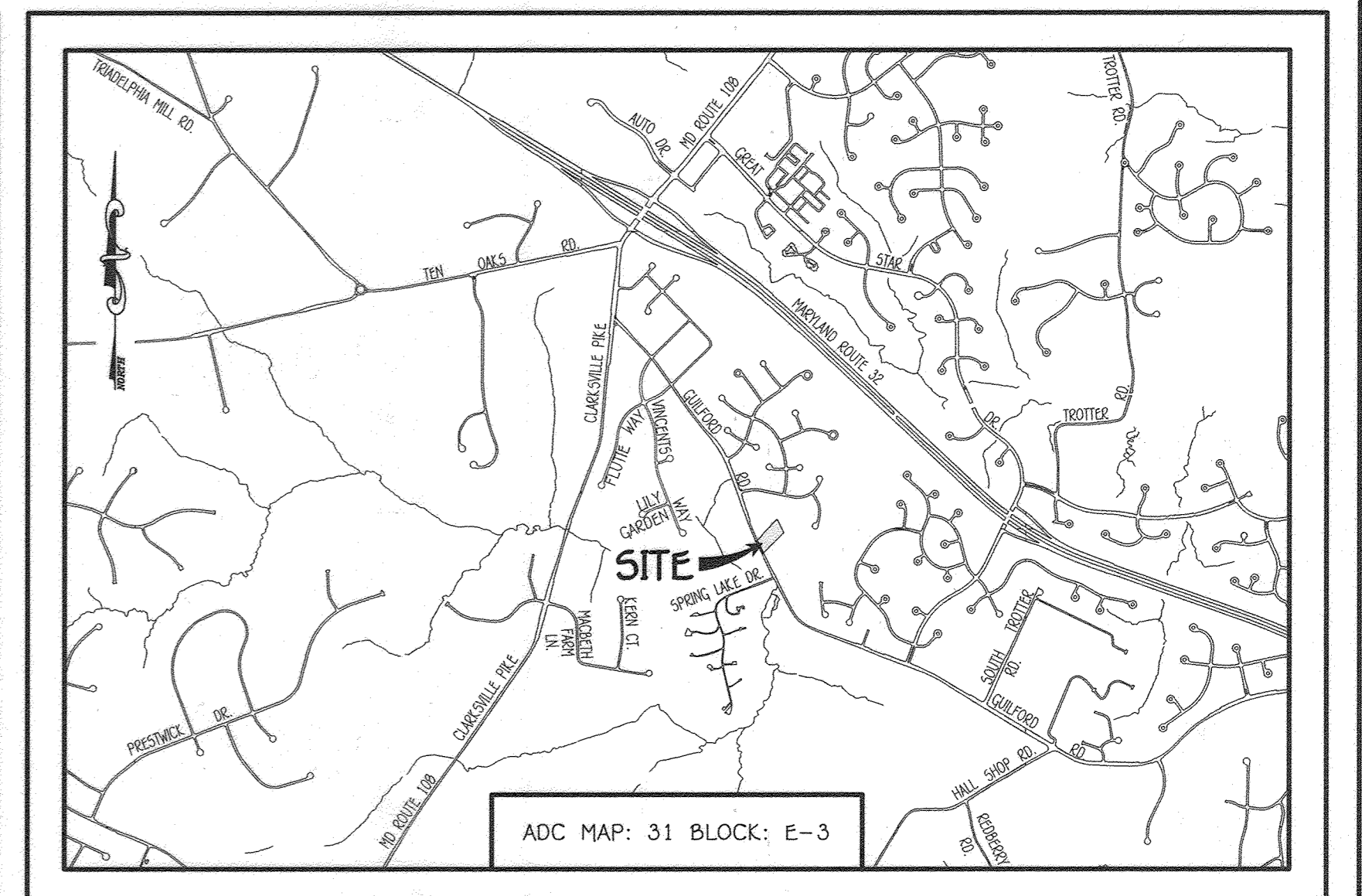
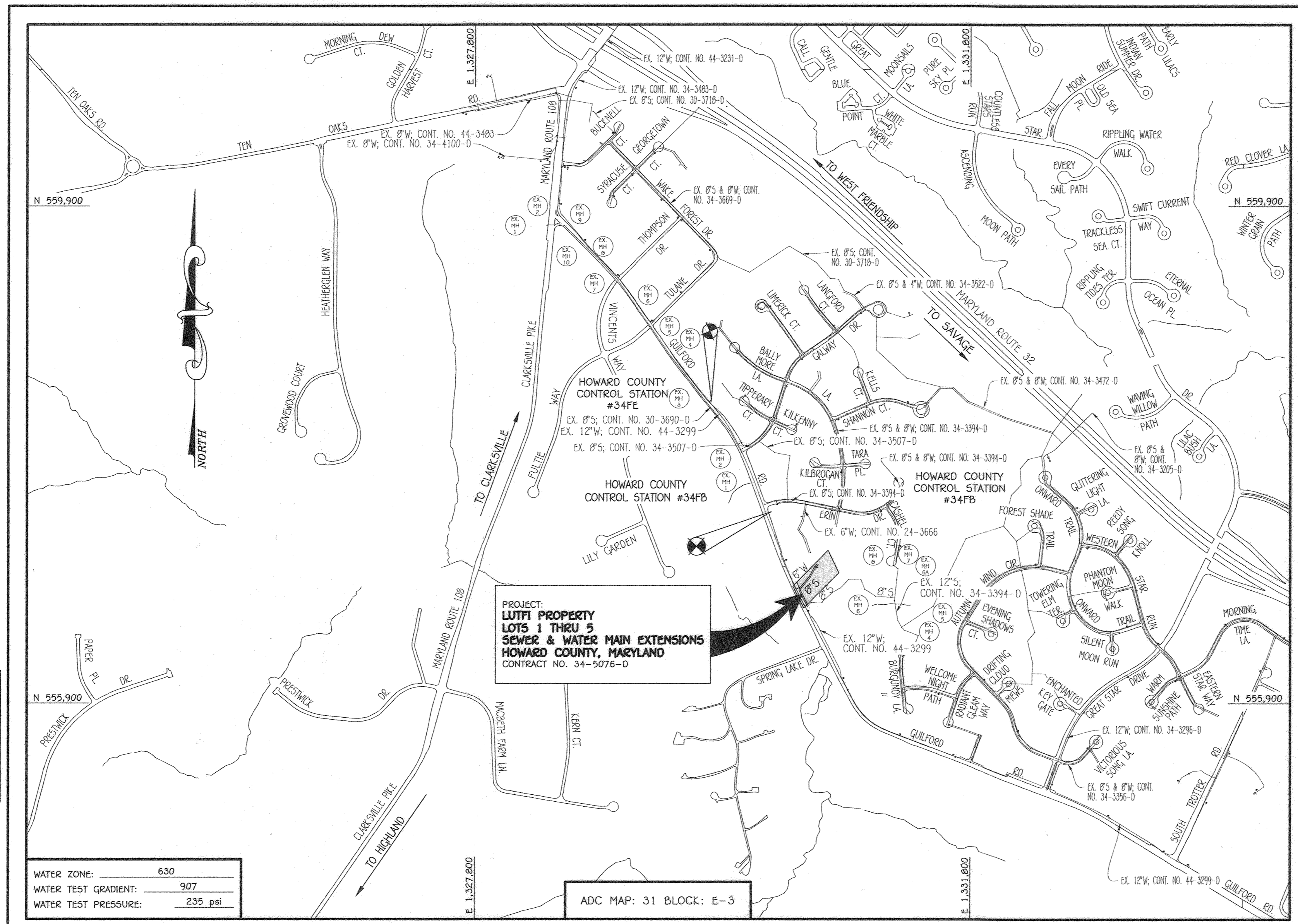
DESIGNED BY :	J.C.L.	DATE :	8-19-23
DRAWN BY :	J.C.L.		
CHECKED BY :	P.W.K.		
DATE :	DECEMBER, 2021	BY :	NO.
		REVISION	DATE

OWNER & DEVELOPER
 MR. LUTFI ON
 8434 HIGH RIDGE ROAD
 ELICOTT CITY, MARYLAND 21043
 410-531-3300

60' SCALE MAP NO. 35 BLOCK NO. 13
 F.C.C. WORK ORDER NO. 11059-3002
 FILE NAME : SEWER & WATER MAIN EXTENSION PLAN

LUTFI PROPERTY
 LOTS 1 THRU 5
 SEWER & WATER MAIN EXTENSIONS
 CONTRACT NO. 34-5076-D
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 3



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 JULY, 2017 BY FISHER, COLLINS & CARTER, 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. 34FB & NO. 34FE.
 ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
 ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - 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 FITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (S) AT THE LOCATIONS OF THE TEST FITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST FIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS 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 (CONTRACTOR SERVICES) 1-800-252-1133
 BGE (EMERGENCY) 410-637-8713
 BUREAU OF UTILITIES 410-313-4900
 COLONIAL PIPELINE CO 410-795-1390
 MISS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-331-3533
 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 STOP 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 INCURRED BY THE UNIT PRICE BID FOR THE DESTRUCTION OF THE MANS.
 - 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.
- 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.
 - VALVES ADJACENT TO TESTS SHALL BE STAPPED TO TREES.
 - 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 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 HARNESSSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEST" 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, 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 1/2-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 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 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 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. TO ACCOMMODATE A SPRINGLESS SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.2B.
- 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 WATERIGHT FRAME AND COVER, STANDARD DET. G5.52. WHERE WATERIGHT 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.

LOCATION MAP
 SCALE: 1" = 600'

TYPE OF BUILDING:	RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS:	5
NO. OF WATER HOUSE CONNECTIONS:	5
NO. OF SEWER HOUSE CONNECTIONS:	5
SEWER SHED:	MIDDLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, MARYLAND

PLAN REFERENCE NUMBERS:
 F-21-021 (RECORD PLAT)
 F-21-021
 ECP-17-036
 SP-18-002

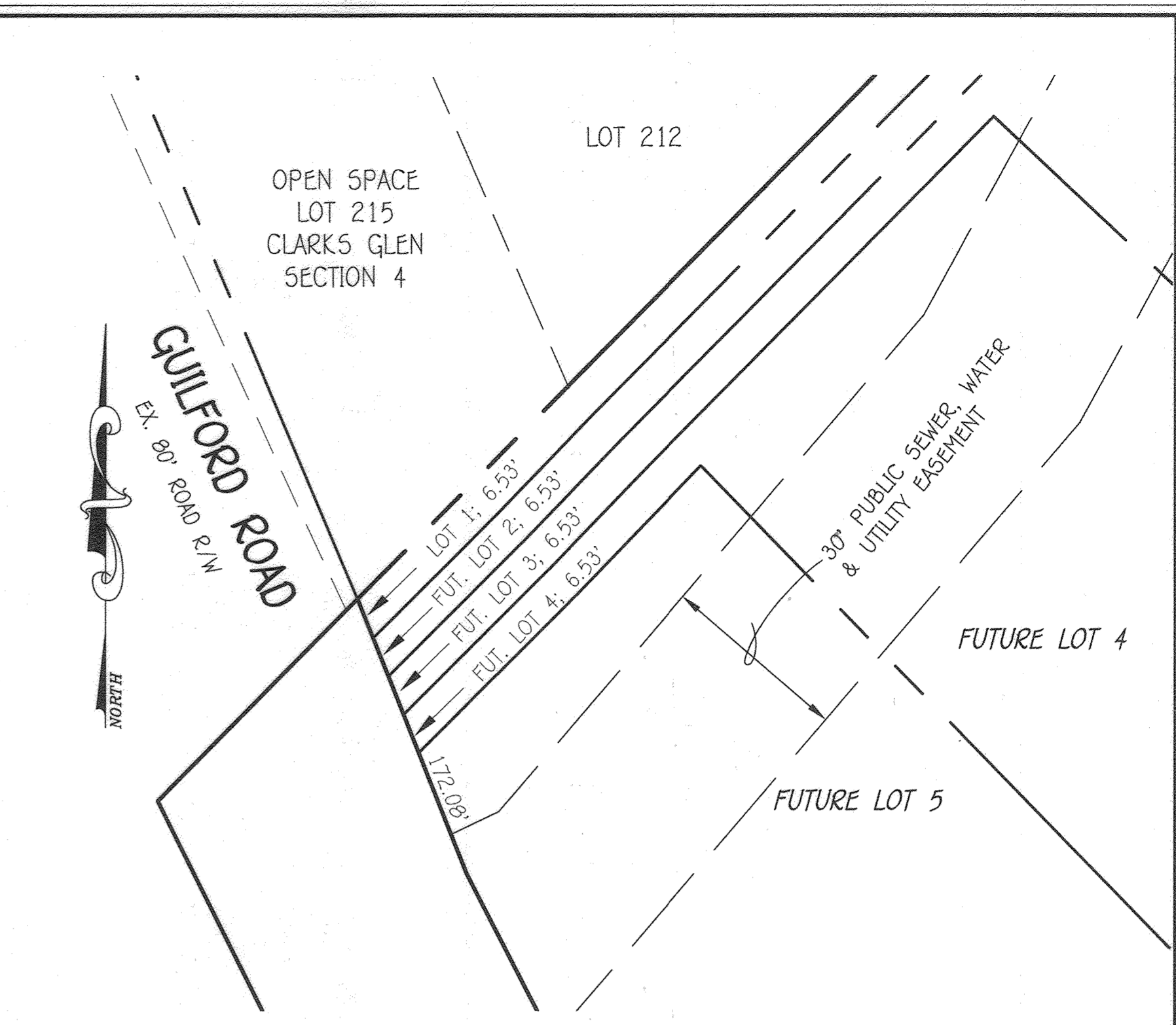
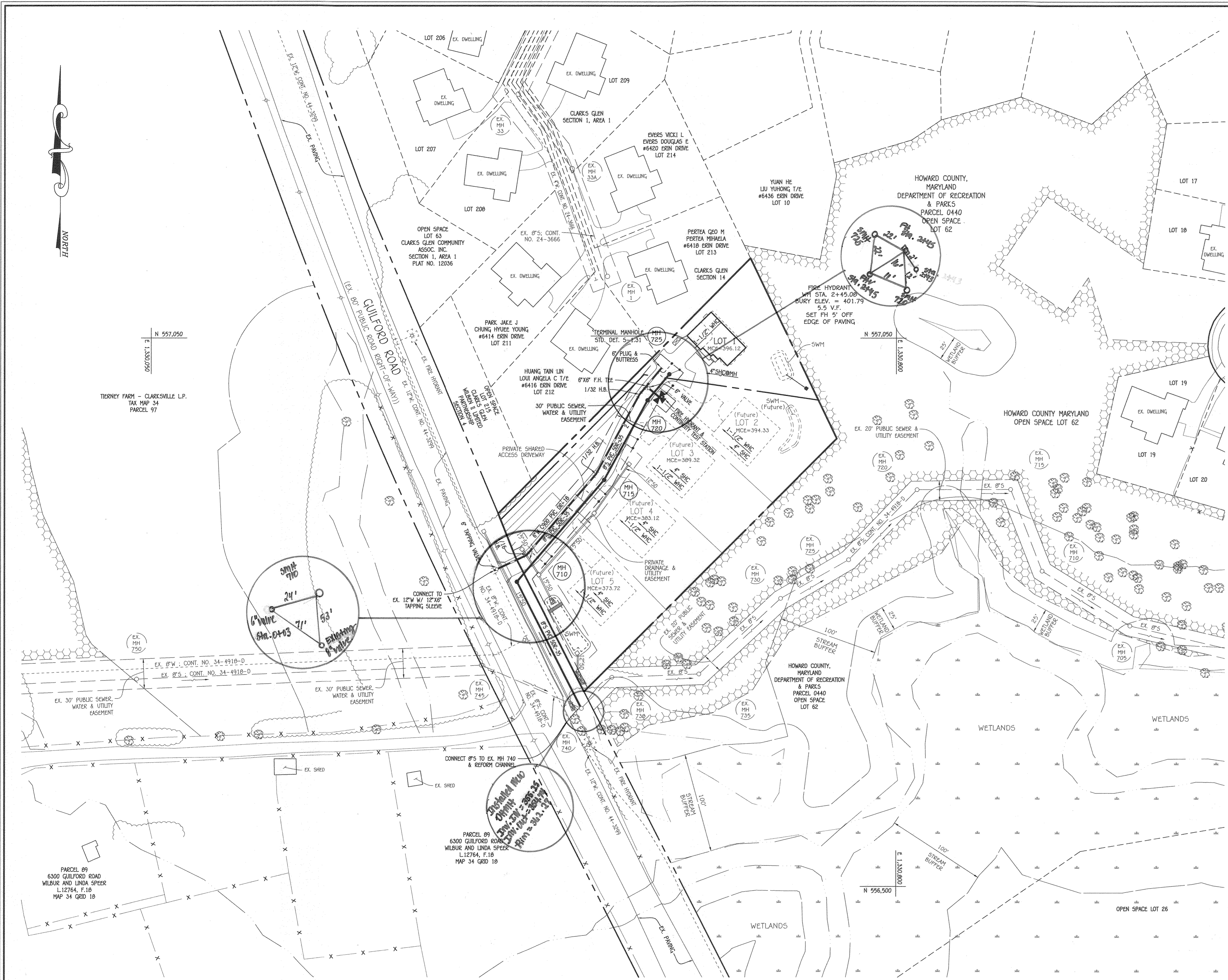
CONTRACT NO. 34-5076-D

LUTFI PROPERTY

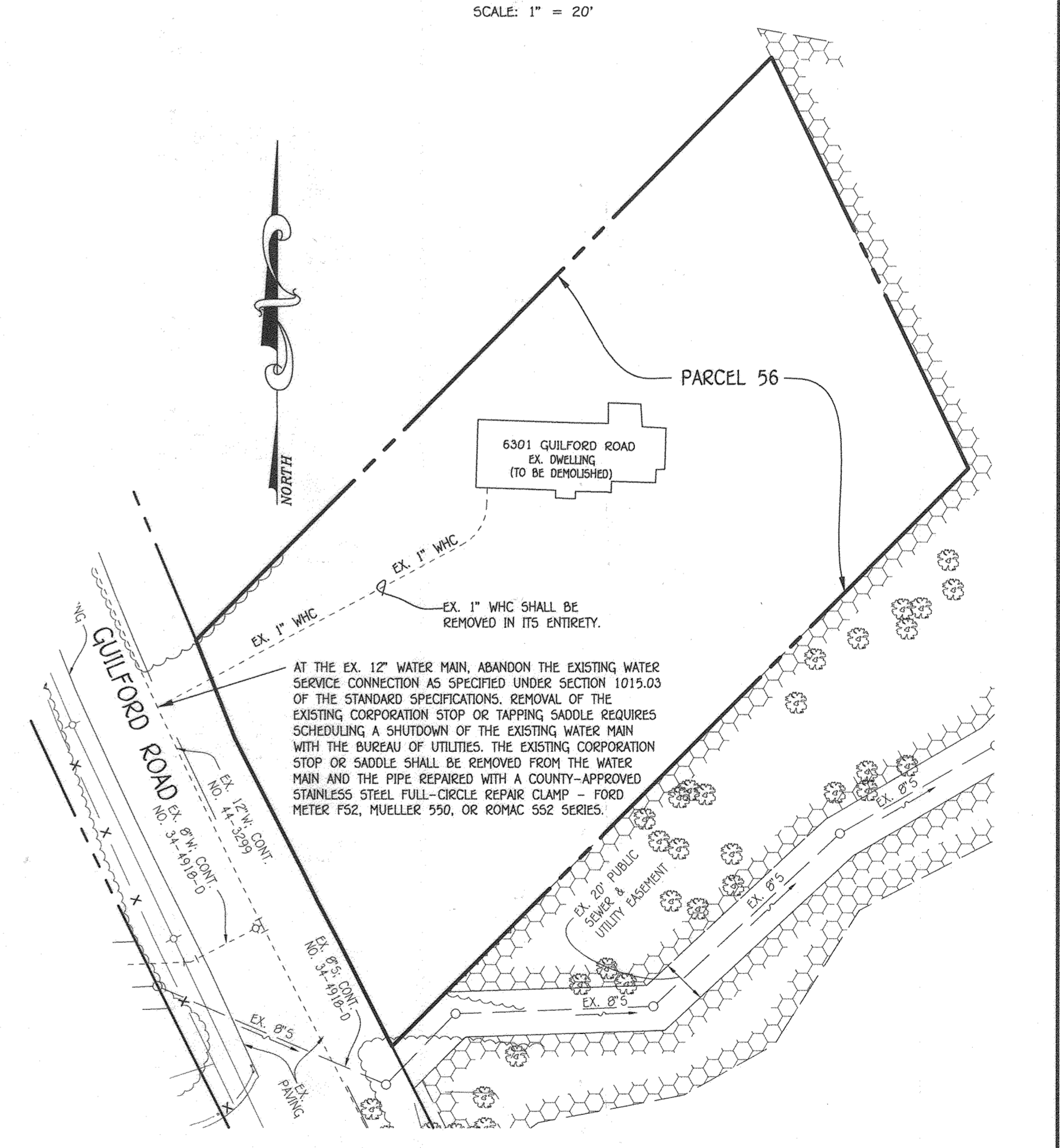
LOTS 1 THRU 5

SEWER & WATER MAIN EXTENSIONS

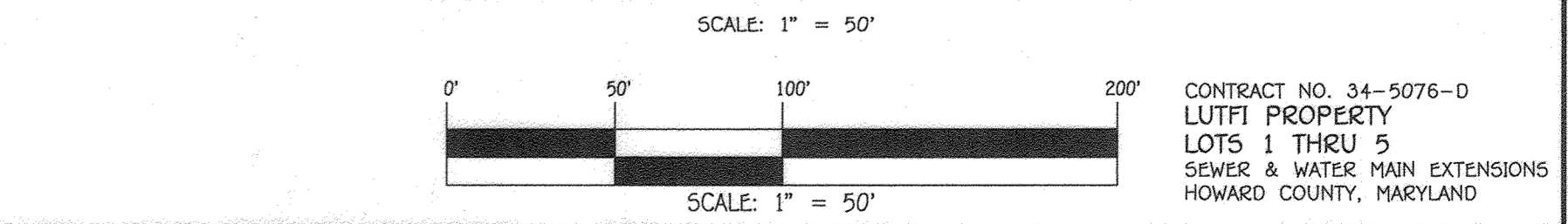
HOWARD COUNTY, MARYLAND



ENLARGEMENT: FRONT FOOTAGE; LOT 1 & FUTURE LOTS 2 THRU 5

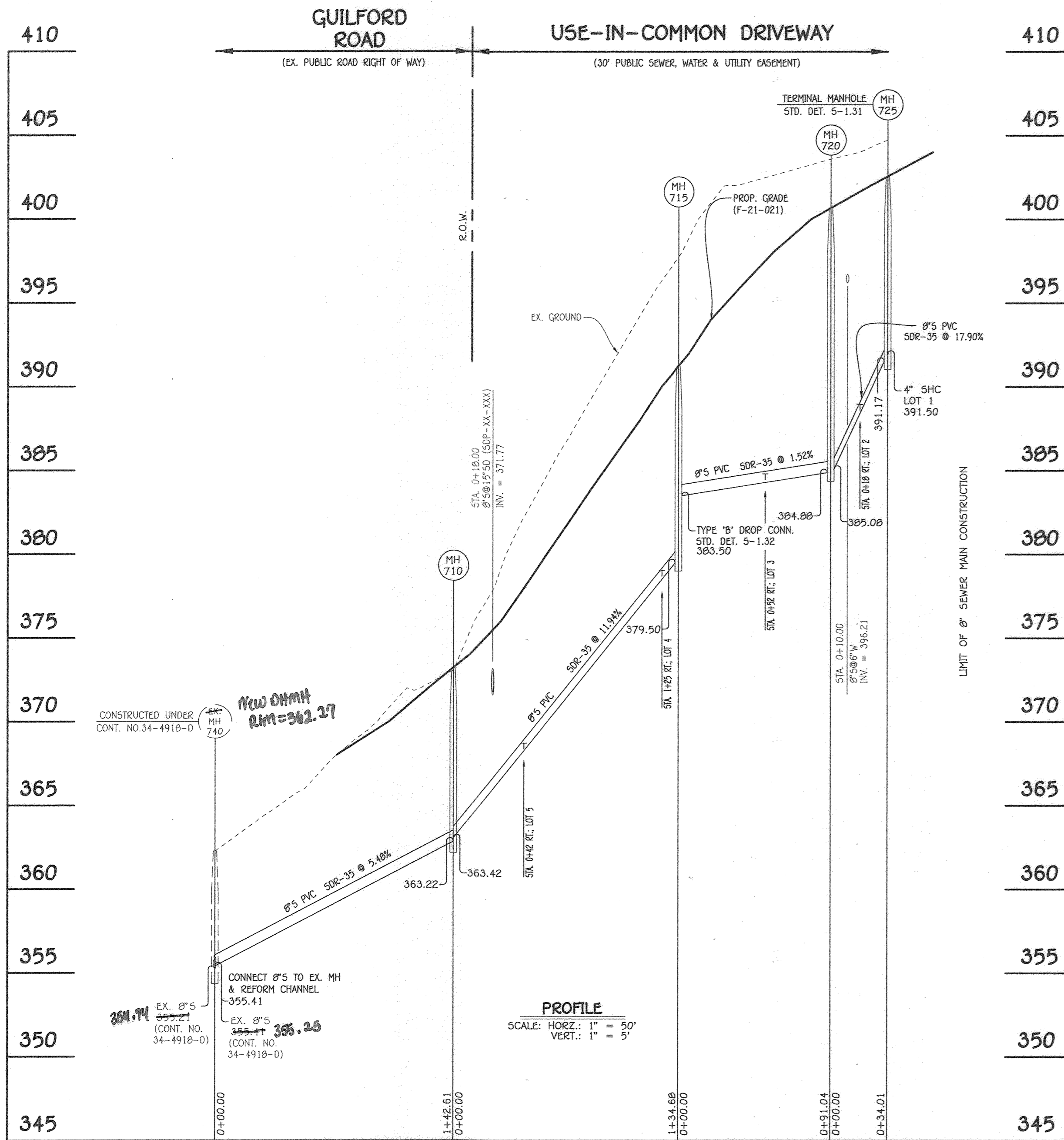


EX. 1" WHC: ABANDONMENT PLAN



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 1-25-22	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT-ENGINEERING DIVISION DATE: 1/31/22	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 CENTONAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 (410) 461-2895	#12043 PAUL W. STEED	DESIGNED BY: J.C.L. DRAWN BY: J.C.L. CHECKED BY: P.W.K. DATE: DECEMBER, 2021	SEWER & WATER MAIN EXTENSIONS PLAN, ENLARGEMENT & ABANDONMENT PLAN 600' SCALE MAP NO. 35 BLOCK NO. 13 F.C.C. WORK ORDER NO. 11059-3002 FILE NAME: SEWER & WATER MAIN EXTENSION PLAN	LUTFI PROPERTY LOTS 1 THRU 5 SEWER & WATER MAIN EXTENSIONS CONTRACT NO. 34-5076-D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 3
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10/2011/11059/Engineering/DwgSewer & Water/Cont. No. 34-5076-D/Final/11059 Revised 10-25-21 Sewer and Water Main Extensions Plan.dwg, 1/17/2022 9:18:06 AM, Downloads: 11500 (Temporary), p.3, 11



8" SEWER MAIN: EX. MH 740 TO MH 725

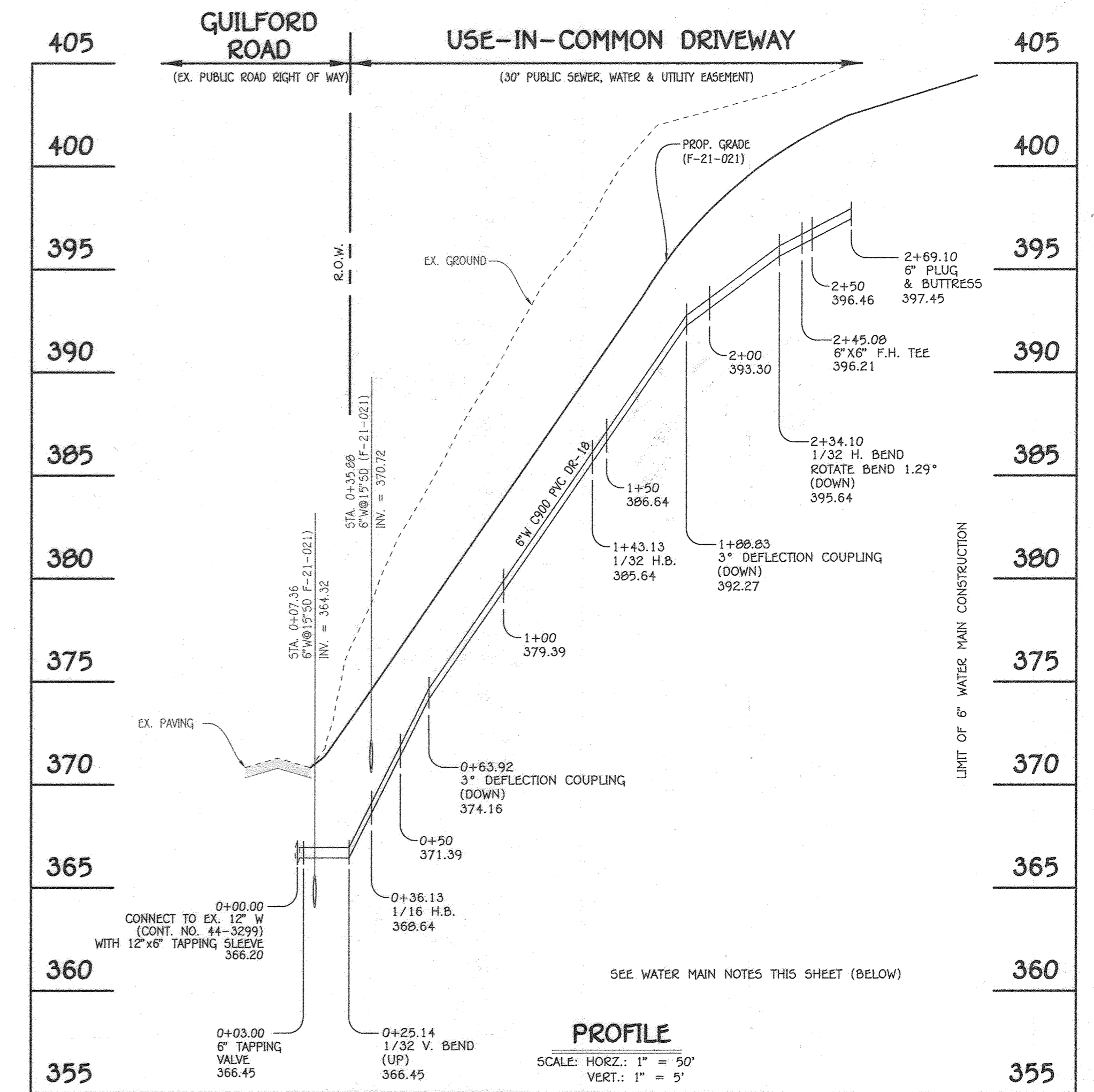
MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
710	556805.70	1330418.35	373.22
715	556907.92	1330506.03	391.25
720	556987.84	1330549.64	400.66
725	557013.94	1330571.44	402.55

NOTE: SET MH RIMS FLUSH WITH PROPOSED GRADE.

SEWER HOUSE CONNECTION CHART						
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EDGE OF EASEMENT	M.C.E.	1ST. FLOOR ELEV.	BASEMENT ELEV.
MH 710 TO MH 715						
0+42 RT.	5	368.60	368.80	373.72	383.07	373.84
1+25 RT.	4	378.44	378.64	383.12	392.80	383.57
MH 715 TO MH 720						
0+52 RT.	3	384.46	384.66	389.32	400.80	391.57
MH 720 TO MH 725						
0+18 RT.	2	388.47	388.67	394.33	403.60	394.37
0 MH 725	1	391.50	391.74	396.12	406.21	396.98

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	Guilford Rd.	SMH 725 11'	PH STA. 2+345 35'
2	Guilford Rd.	SMH 725 12'	PH STA. 2+345 17'
3	Guilford Rd.	PH STA. 2+345 81.5'	SMH 720 61'
4	Guilford Rd.	SMH 715 20'	SMH 720 114'
5	Guilford Rd.	SMH 710 34'	6" V STA. 0+400 51.5'

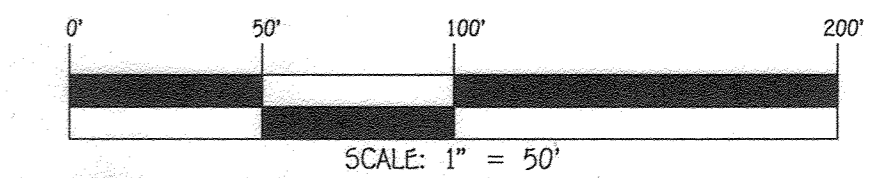
SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	Guilford Rd.	SMH 725 13'	PH STA. 2+345 32'
2	Guilford Rd.	SMH 725 17'	PH STA. 2+345 8'
3	Guilford Rd.	PH STA. 2+345 47'	SMH 720 41'
4	Guilford Rd.	SMH 715 12'	SMH 720 114'
5	Guilford Rd.	SMH 710 44'	6" V STA. 0+400 60'



6" WATER MAIN: USE-IN-COMMON DRIVEWAY

- WATER MAIN NOTES:
- ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
 - 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.
 - DEFLECTION COUPLINGS SHALL BE CERTAIN-TYED PVC HIGH DEFLECTION COUPLINGS.
 - ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	CONNECT TO EX. 12" W w/ 12"x6" TAPPING SLEEVE	556816.94	1330395.45
0+03.00	6" TAPPING VALVE	556818.23	1330398.16
0+25.14	1/32 V. BEND (UP)	556827.74	1330418.23
0+36.13	1/16 H.B.	556832.42	1330428.09
0+63.92	3" DEFLECTION COUPLING (DOWN)	556853.52	1330446.19
1+43.13	1/32 H.B.	556913.64	1330497.75
1+88.83	3" DEFLECTION COUPLING (DOWN)	556953.76	1330519.65
2+34.10	1/32 H.B. (ROTATE 1.29° DOWN)	556993.49	1330541.33
2+45.08	6"x6" F.H. TEE	557001.92	1330548.37
2+69.10	6" PLUG & BUTTRESS	557020.35	1330563.76

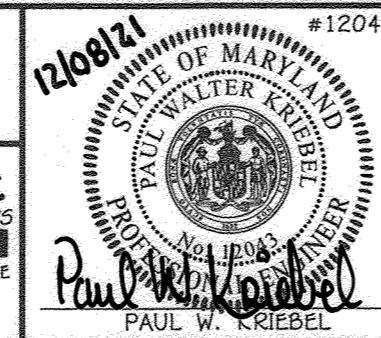


CONTRACT NO. 34-5076-D
LUTFI PROPERTY
LOTS 1 THRU 5
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
12-15-21

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
1.11.22

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.
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELIJAH CITY, MARYLAND 21042
(410) 461-2895



DESIGNED BY: J.C.L.
DRAWN BY: J.C.L.
CHECKED BY: P.W.K.
DATE: DECEMBER, 2021

SEWER & WATER MAIN EXTENSIONS
PROFILES, CHARTS, TABLES & NOTES
600' SCALE MAP NO. 35 BLOCK NO. 13
F.C.C. WORK ORDER NO. 11059-3002
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

LUTFI PROPERTY
LOTS 1 THRU 5
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 34-5076-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 3