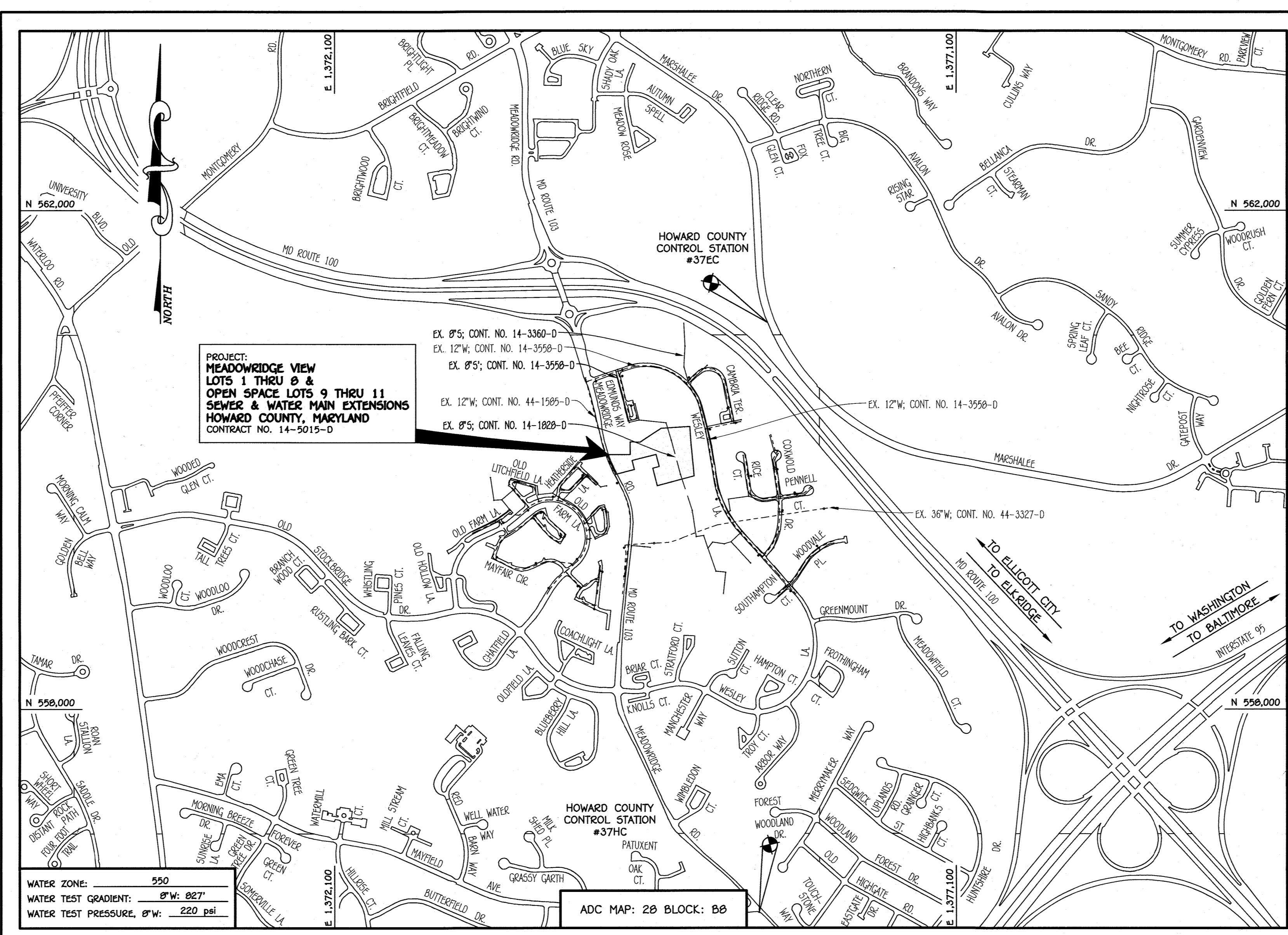


QUANTITIES				
ITEM	ESTIMATED	AS-BUILT	TYPE	SUPPLIER
5" PVC, SDR-35	534 LF.	534 LF	SDR-35	NATIONAL/FERGUSON
4" PVC, SDR-35	154 LF	154 LF	SDR-35	NATIONAL/FERGUSON
CLEAN-OUTS	10 EACH	10 EACH	PRECAST	HORNE/FERGUSON
MANHOLES	7 EACH	7 EACH	SANITARY	CPC
TYPE 'B' DROP MANHOLE	1 EACH	1 EACH	SANITARY	CPC
6" W. C900 PVC, DR-18	426 LF.	440 LF	C900 DR-18	NORTH AMERICAN/FERGUSON
6" W. C900 PVC, DR-18	191 LF.	191 LF	C900 DR-18	AMERICAN/FERGUSON
1-1/2" W.C.	133 LF.	133 LF	K COPPER	MUELLER/FERGUSON
12" TAPPING SLEEVE	1 EACH	1 EACH		SMITH BLAIR/FERGUSON
8" X 6" TEE	1 EACH	1 EACH	MJ C153	TYLER/FERGUSON
8" X 6" F.H. TEE	1 EACH	1 EACH	MJ C153	TYLER/FERGUSON
8" TAPPING VALVE	1 EACH	1 EACH	TAPPING	MUELLER/FERGUSON
6" VALVE	2 EACH	2 EACH	MJ GATE	MUELLER/FERGUSON
FIRE HYDRANT	1 EACH	1 EACH	A 423	MUELLER/FERGUSON
CONTINUITY TEST STATION	1 EACH	1 EACH		VESTAL/FERGUSON
OUTSIDE METER SETTING	8 EACH	8 EACH	SINGLE	AY MEDONALD/FERGUSON
1/8" H.B.	1 EACH	1 EACH	MJ C153	TYLER/FERGUSON
1/16" H.B.	3 EACH	3 EACH	MJ C153	TYLER/FERGUSON
1/32" H.B.	3 EACH	3 EACH	MJ C153	TYLER/FERGUSON
2" DEFLECTION COUPLING	1 EACH	1 EACH		CERTAINTEDE/FERGUSON
8" FLUG & BUTTRESS	1 EACH	1 EACH	MJ C153	TYLER/FERGUSON
8" FLUG & BUTTRESS	1 EACH	1 EACH	MJ C153	TYLER/FERGUSON

BENCHMARK INFORMATION	
B.M.#1 - HOWARD COUNTY CONTROL STATION #37EC - HORIZONTAL - NAD '83	N 561,099.801 E 1,375,560.480 ELEVATION = 346.154 - VERTICAL - (NAVD '88)
B.M.#2 - HOWARD COUNTY CONTROL STATION #37HC - HORIZONTAL - (NAVD '83)	N 556,364.071 E 1,375,513.263 ELEVATION = 270.062 - VERTICAL - (NAVD '88)



DEVELOPER'S CERTIFICATION	
TYPE OF BUILDING:	RESIDENTIAL - SINGLE FAMILY DETACHED
NUMBER OF LOTS:	8
NO. OF WATER HOUSE CONNECTIONS:	8
NO. OF SEWER HOUSE CONNECTIONS:	10
SEWER SHED:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

LOCATION MAP	
SCALE:	1" = 600'

PLAN REFERENCE NUMBERS:	
SP-17-009	
ESP-17-046	
F-18-090 (ROAD PLANS & RECORD PLAT)	
DMV-19-013	

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. Keibel, FOR:
 PatapSCO Builders, LLC
 SIGNATURE OF DEVELOPER
 03/26/19
 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. Keibel
 SIGNATURE OF ENGINEER
 03-26-19
 DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 309 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THESE PLANS.

Paul W. Keibel, FOR:
 PatapSCO Builders, LLC
 SIGNATURE OF DEVELOPER
 03/26/19
 DATE

GP-18-020

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

APPROVED:
 Howard Soil Conservation District
 4/10/19
 DATE

LEGEND	
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. W.C.
---	PROP. SHC
○	PROP. FIRE HYDRANT
○	PROP. VALVE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

1/2/19
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

4.22.19
 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 7/18/20.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1100 4th - 2925

DESIGNED BY:
 B.C.R.

DRAWN BY:
 B.C.R.

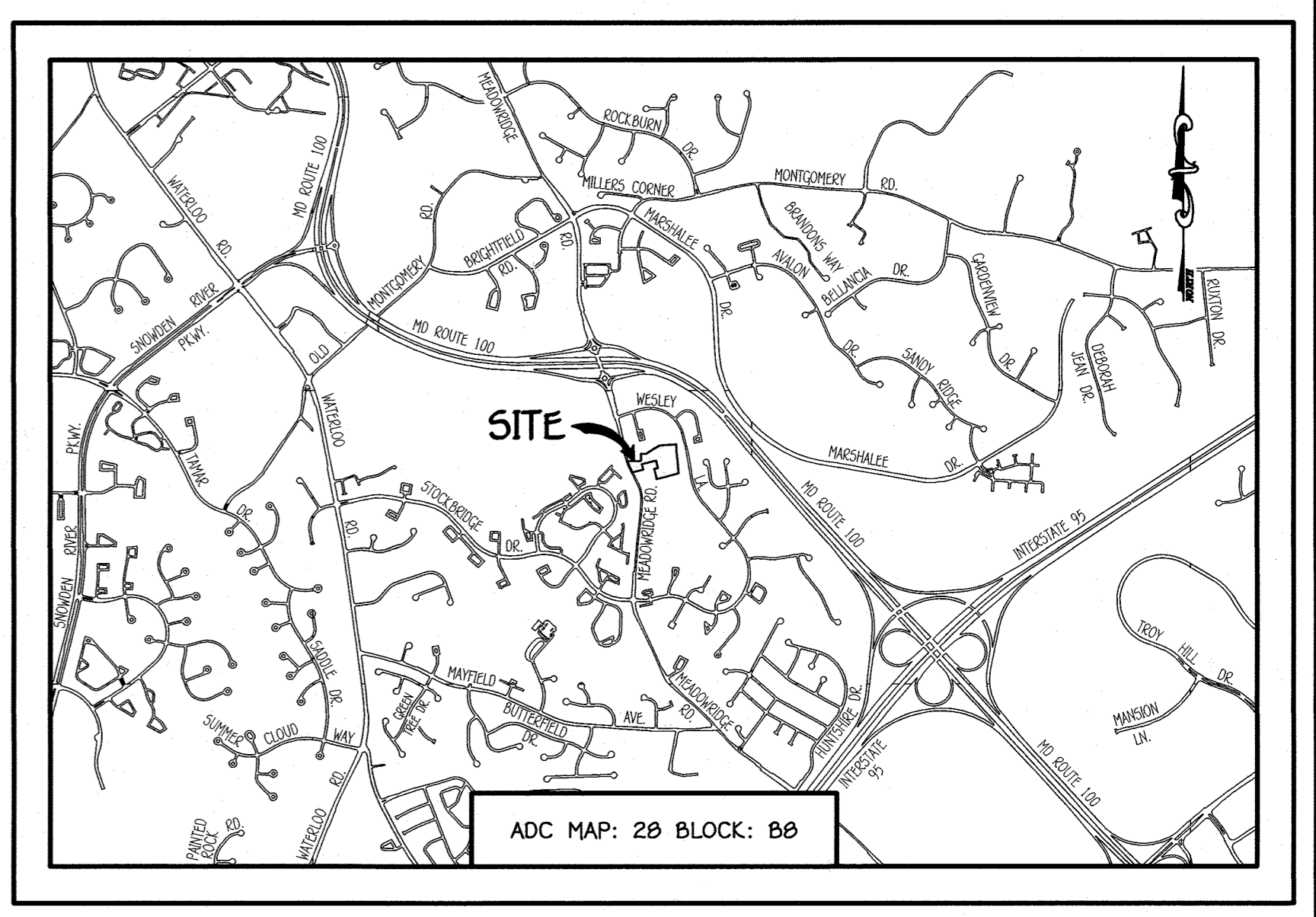
CHECKED BY:
 P.W.K.

DATE:
 6/27/21

LEM	NO.	REVISION
		FILLED QUANTITIES BLOCK

OWNER: JAMES C. JOHNSON & VALENCIA SCOTT
 6077 MEADOWRIDGE ROAD
 ELKBRIDGE, MD 21075

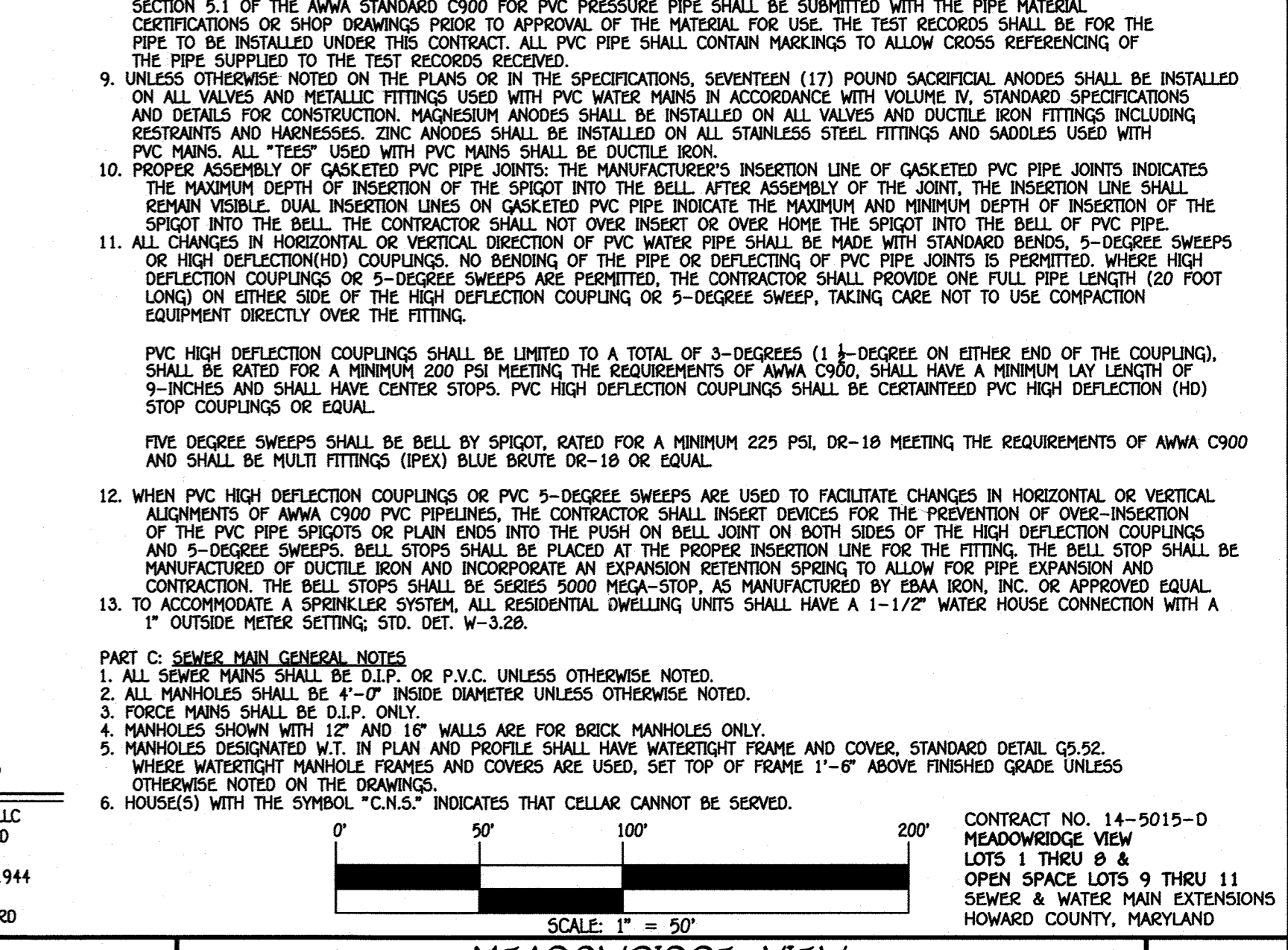
DEVELOPER: PATAPSCO BUILDERS, LLC
 SUITE 140
 COLUMBIA, MD 21045-1944
 240-375-1012
 ATTN: MR. TH BURKARD



GENERAL NOTES
 SCALE: 1" = 2000'

- 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 CONTRACTOR'S SUPERVISOR.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT FEBRUARY, 2017 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THESE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 37EC & NO. 37HC.
 - ALL PIPE ELEVATIONS SHOWN ARE UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES FOR 2'-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 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 (S) 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:
 - ATA 1-800-252-1133
 - BGE (CONTRACTOR SERVICES) 410-637-8713
 - BGE (EMERGENCY) 410-699-0123
 - BUREAU OF UTILITIES 410-313-4900
 - COLONIAL PIPELINE CO 410-795-1390
 - MESSE UTILITY 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION 410-531-9533
 - 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 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 IN ACCORDANCE WITH THE CONSTRUCTION OF THE MANUAL.
 - 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 18.1.1(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 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 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 HARNESSES. 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 PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED, UNLESS 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 220 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 CERTANTIDE 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 MANUFACTURED BY 6544 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 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED P.F.T. IN PLAN AND WATER TIGHT FRAME AND COVER, STANDARD DET. C5.52.
 - 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.

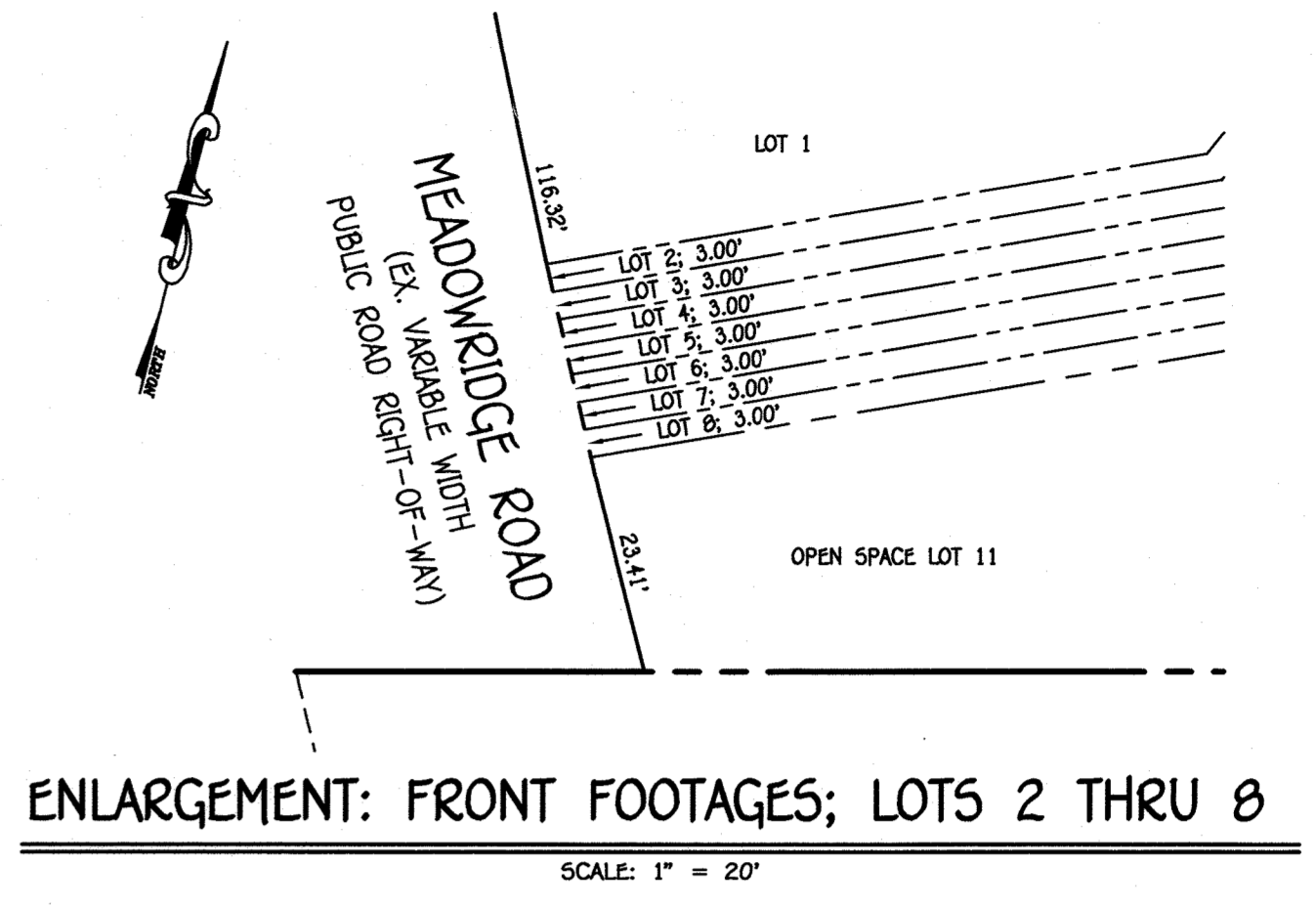
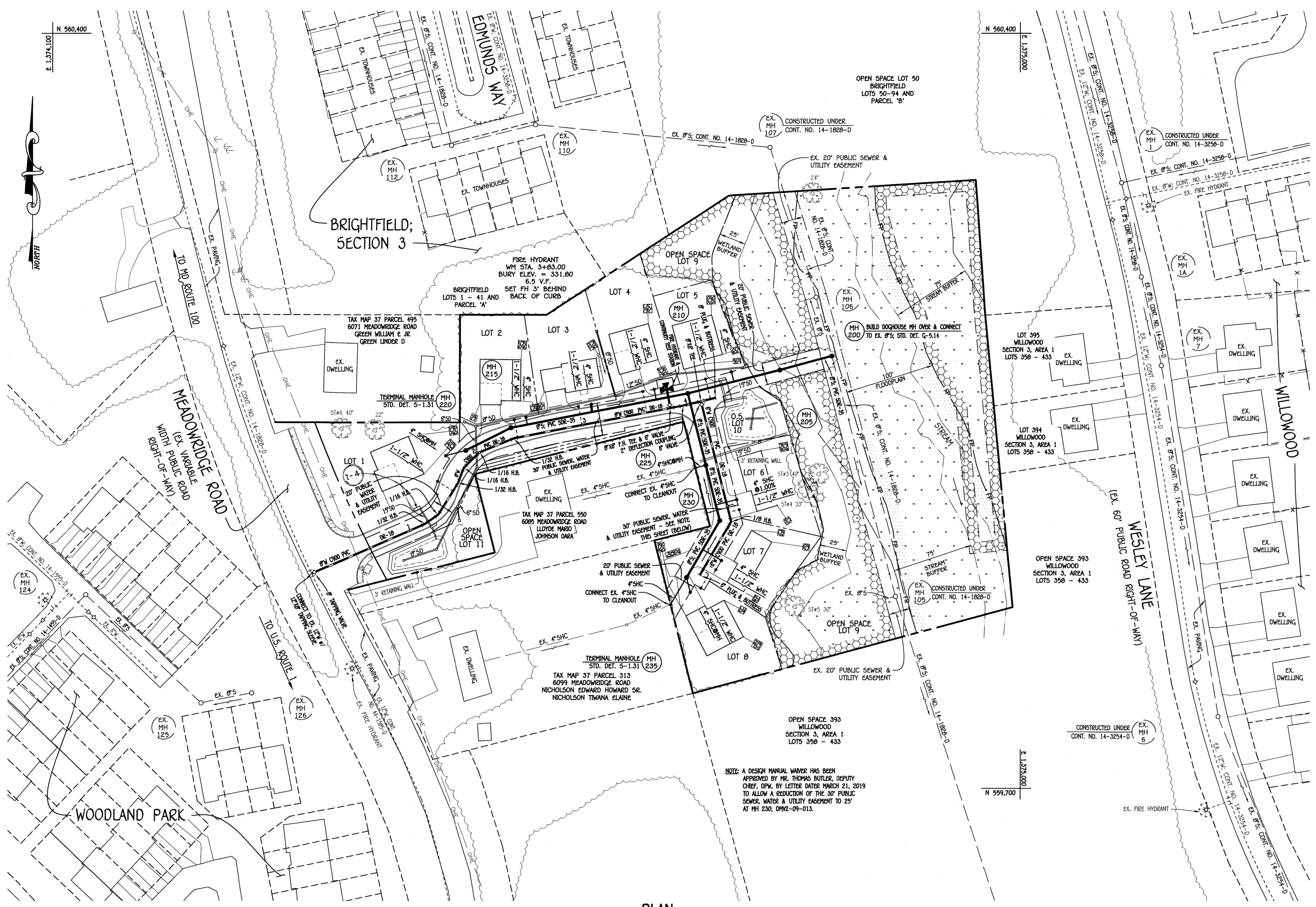
VICINITY MAP	
SCALE:	1" = 2000'



CONTRACT NO. 14-5015-D
 MEADOWRIDGE VIEW
 LOTS 1 THRU 8 &
 OPEN SPACE LOTS 9 THRU 11
 SEWER & WATER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

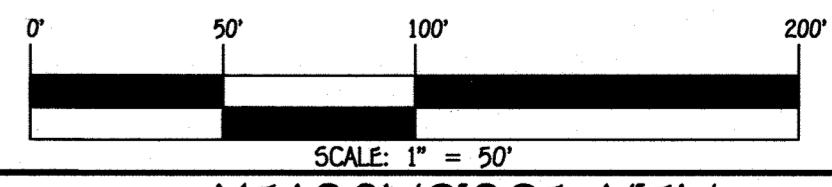
SCALE AS SHOWN

SHEET 1 OF 6



PLAN
SCALE: 1" = 50'

SEE SHEET 3 FOR SEDIMENT & EROSION CONTROL PLAN AND EX. SHC/WHC ABANDONMENT PLAN



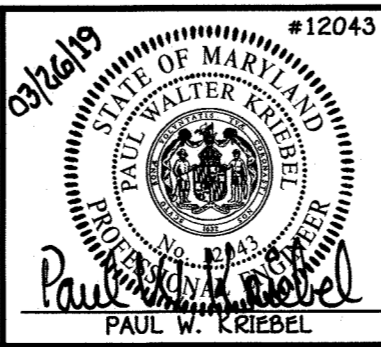
CONTRACT NO. 14-5015-D
MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
OPEN SPACE LOTS 9 THRU 11
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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 7/18/20.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-3999



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	MARCH, 2019
LEAD:	ADDED "1-4" TO PLAN
DATE:	6/29/21
BY:	NO.
REVISION:	

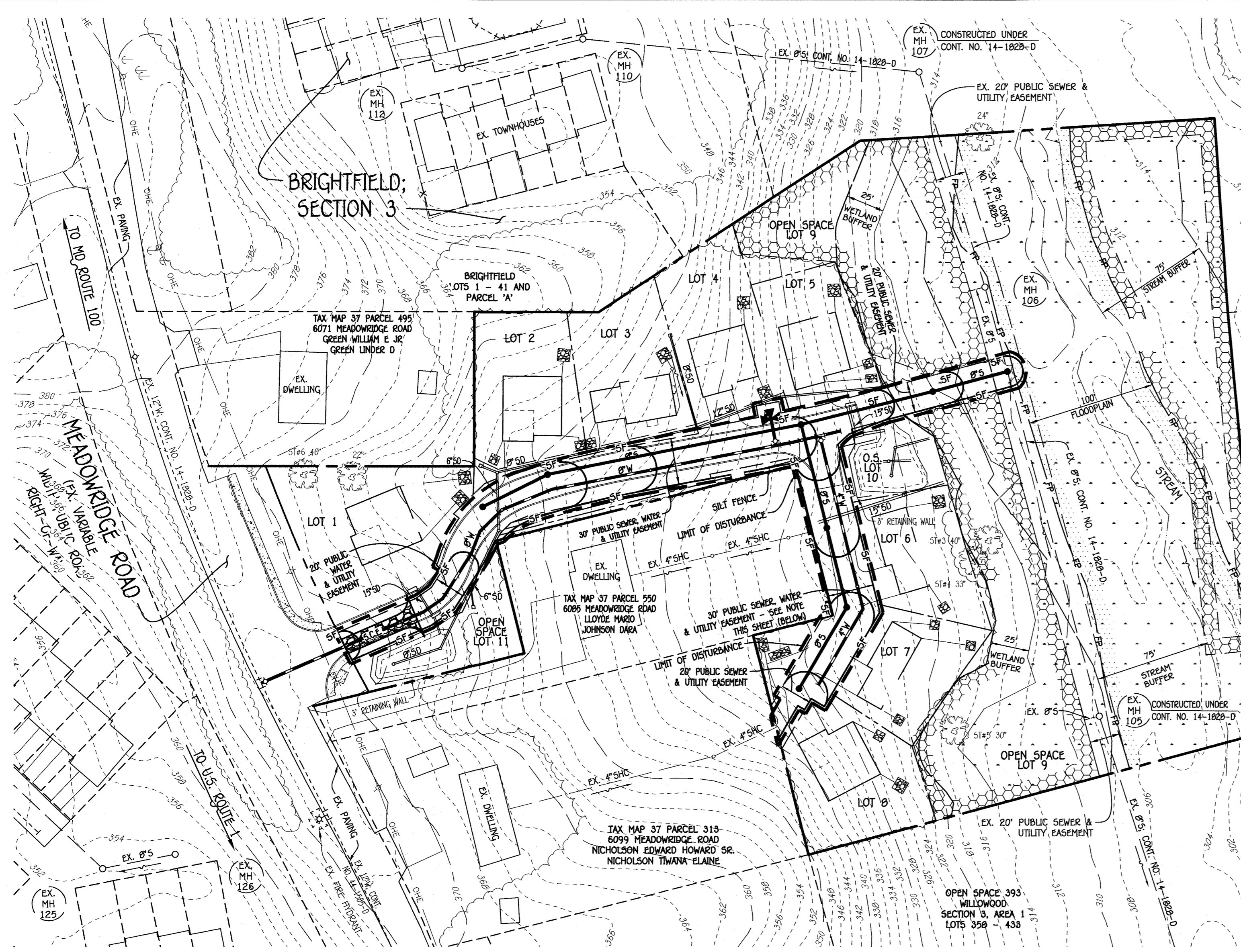
**SEWER & WATER MAIN EXTENSIONS
PLAN & ENLARGEMENT:
FRONT FOOTAGES**

600' SCALE MAP NO. 37 BLOCK NO. 09
F.C.C. WORK ORDER NO. 16046-3001
FILE NAME: SEWER & WATER MAIN EXTENSIONS PLAN

**MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
OPEN SPACE LOTS 9 THRU 11
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-5015-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND**

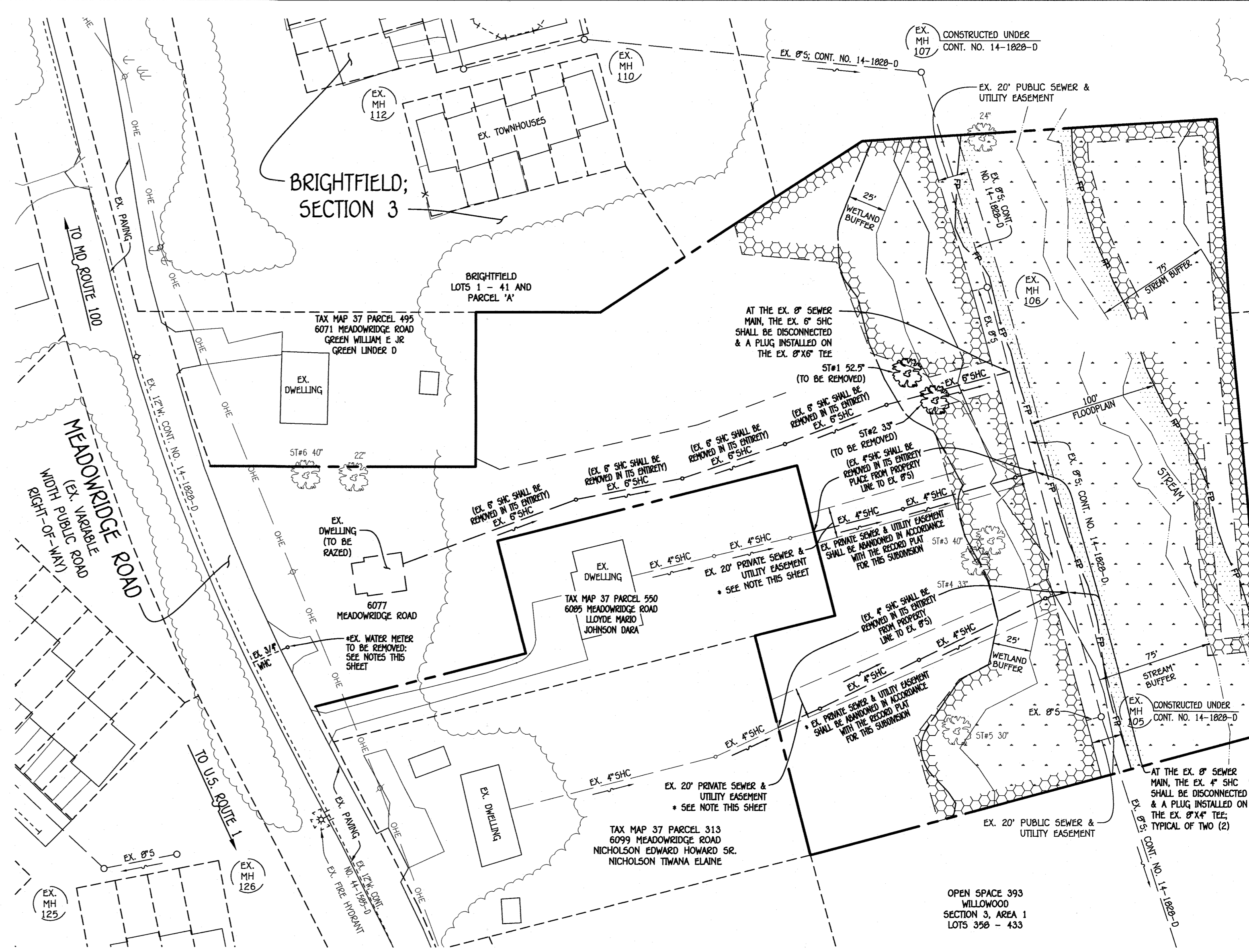
SCALE AS SHOWN
SHEET 2 OF 6

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SEDIMENT & EROSION CONTROL PLAN

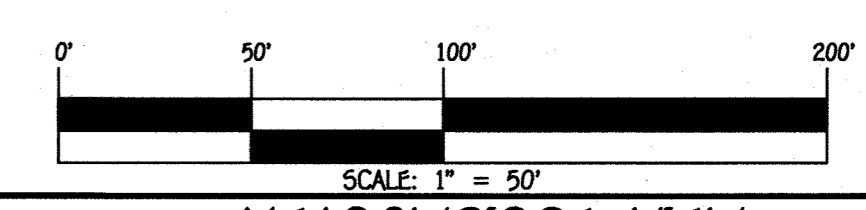
SCALE: 1" = 50'



ABANDONMENT PLAN: EX. SHC'S #6077, #6085 & #6099 & EX. WHC #6077

SCALE: 1" = 50'

- * EX. WHC ABANDONMENT NOTES:**
1. THE EX. WATER METER SHALL BE REMOVED & RETURNED TO THE BUREAU OF UTILITIES.
 2. AT THE EX. 12" WATER MAIN, THE EX. CORPORATION STOP SHALL BE REMOVED & A STAINLESS STEEL FULL CIRCLE REPAIR CLAMP SHALL BE INSTALLED.

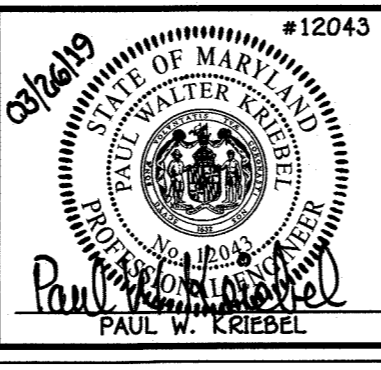


CONTRACT NO. 14-5015-D
MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
OPEN SPACE LOTS 9 THRU 11
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
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 7/16/20.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
BELLGATE CITY, MARYLAND 21042
(410) 461-2992



DESIGNED BY:	B.C.R.				
DRAWN BY:	B.C.R.				
CHECKED BY:	P.W.K.				
DATE:	MARCH, 2019	BY	NO.	REVISION	DATE

SEDIMENT & EROSION CONTROL AND EX. SHC/WHC ABANDONMENT PLAN

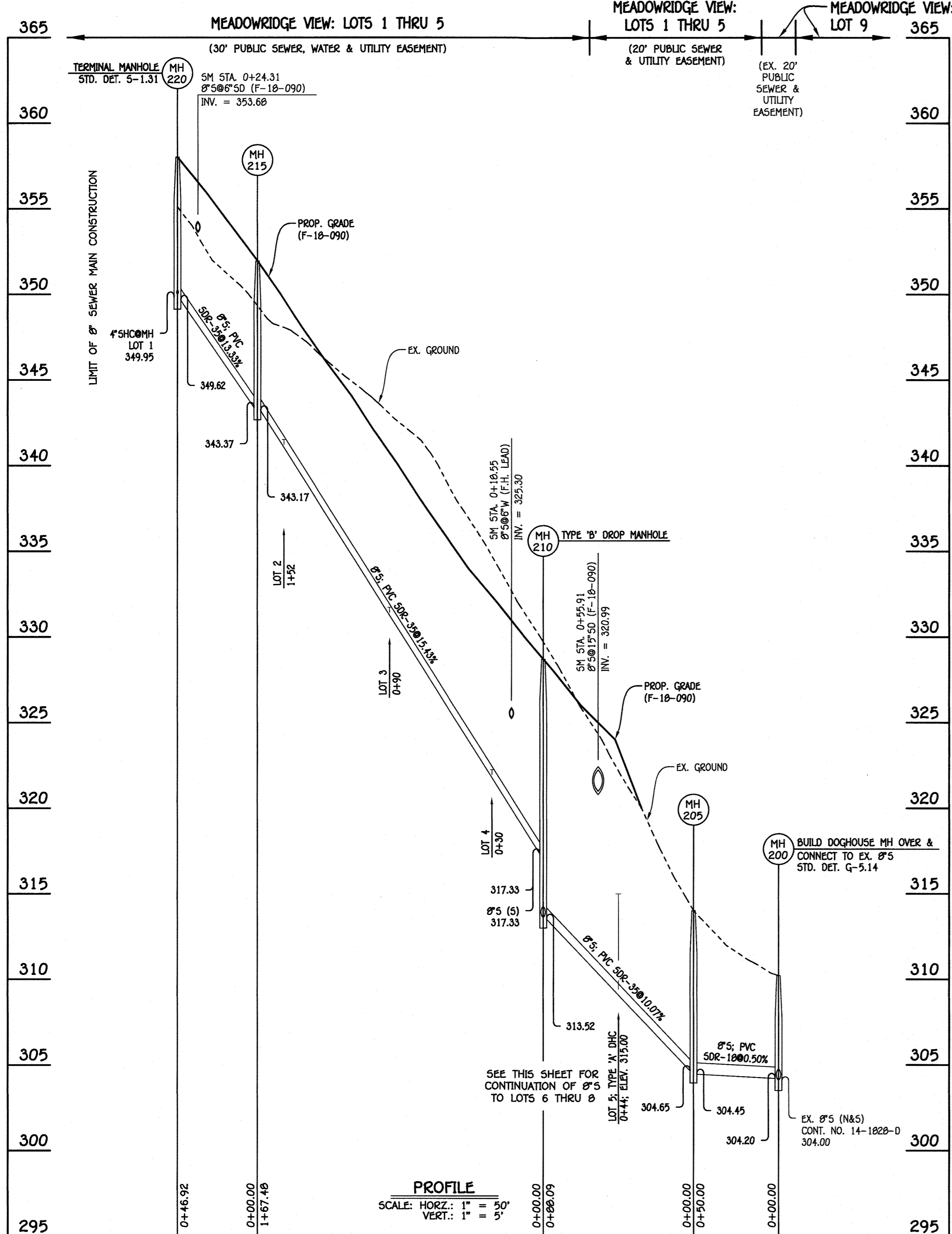
600' SCALE MAP NO. 37 BLOCK NO. 09
F.C.C. WORK ORDER NO. 16046-3001
FILE NAME: SEWER & WATER MAIN EXTENSIONS PLAN

**MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
OPEN SPACE LOTS 9 THRU 11
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-5015-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND**

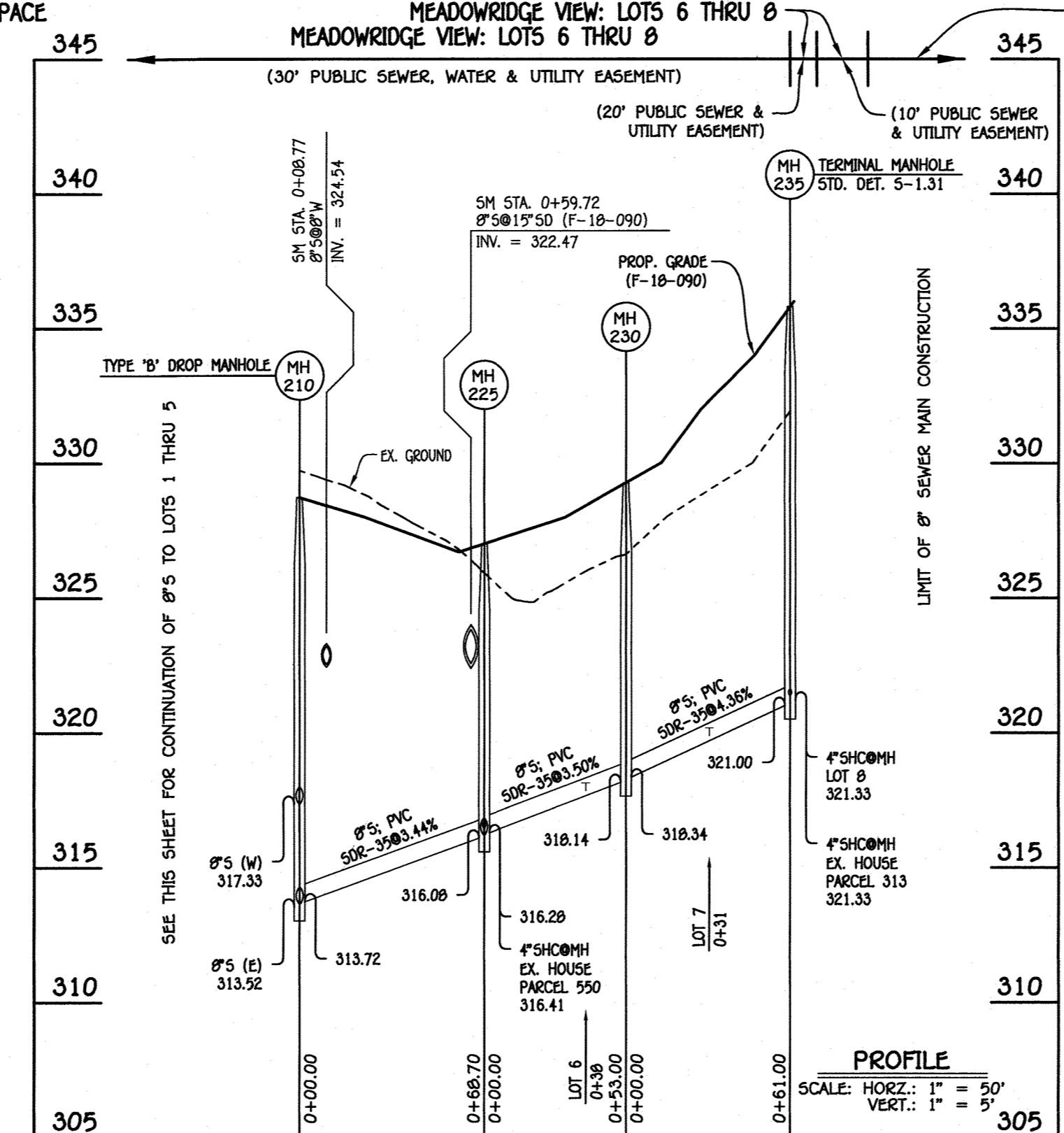
SCALE
AS
SHOWN

SHEET
3 OF 6

I:\2016\16046\Engineering\Drawings\Sewer & Water\Contract No. 14-5015-D\Final\16046-3001 Sewer & Water Contract Plan.dwg, 3/26/2019 2:32:10 PM, Upstairs 1500 (Temporary)\pc3



8" SEWER MAIN: LOTS 1 THRU 5



8" SEWER MAIN: LOTS 6 THRU 8 & PARCELS 313 & 550

LOT / PARCEL NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		MH 220	20'
2		MH 215	17'
3		MH 215	78'
4		MH 210	32'
5		MH 210	45'
6		MH 225	43'
7		MH 230	38'
8		MH 230	74'
EX 6085 3-13		MH 225	11'
EX 6079 550-		MH 230	92'
		MH 235	90'

NO.	NORTHING	EASTING	RIM ELEVATION
225	559999.78	1374707.55	327.01
230	559948.38	1374720.47	329.27
235 (TERMINAL)	559895.79	1374689.57	335.80

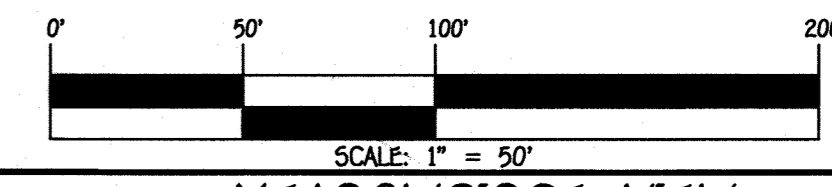
NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT / PARCEL	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.	F.F.
MH 210 TO MH 225						
0+38 RT.	550	316.41	316.61	323.11	-	-
MH 225 TO MH 230						
0+38 LT.	6 (1.00%)	317.78	317.98	321.13	321.60	331.60
MH 230 TO MH 235 (TERMINAL)						
0+31 LT.	7	319.86	320.26	324.16	324.70	334.70
0+30 RT.	4	322.13	322.35	326.75	329.00	329.00
0+90 RT.	3	331.39	331.59	335.79	339.10	349.10
1+52 RT.	2	340.95	341.15	345.55	346.90	356.90
MH 215 TO MH 220 (TERMINAL)						
0+44 RT.	5 (DHC)	315.00	315.20	319.70	322.50	332.50
0+44 RT.	5 (DHC)	315.00	315.20	319.70	322.50	332.50

NO.	NORTHING	EASTING	RIM ELEVATION
200 (DOGHOUSE)	560100.80	1374824.55	310.21
205	560087.92	1374776.24	314.01
210	560066.41	1374690.81	328.72
215	560034.28	1374526.45	351.94
220 (TERMINAL)	560013.43	1374484.41	358.02

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

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.	F.F.
MH 205 TO MH 210						
0+44 RT.	5 (DHC)	315.00	315.20	319.70	322.50	332.50
MH 210 TO MH 215						
0+30 RT.	4	322.13	322.35	326.75	329.00	329.00
0+90 RT.	3	331.39	331.59	335.79	339.10	349.10
1+52 RT.	2	340.95	341.15	345.55	346.90	356.90
MH 215 TO MH 220 (TERMINAL)						
0+44 RT.	1	349.95	350.35	354.95	362.50	372.50

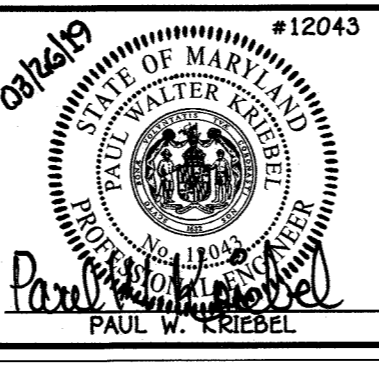


CONTRACT NO. 14-5015-D
MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
OPEN SPACE LOTS 9 THRU 11
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES
DATE: 4/2/19

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 4-22-19

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 7/16/20.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELKTON CITY, MARYLAND 21828
(410) 461-2999

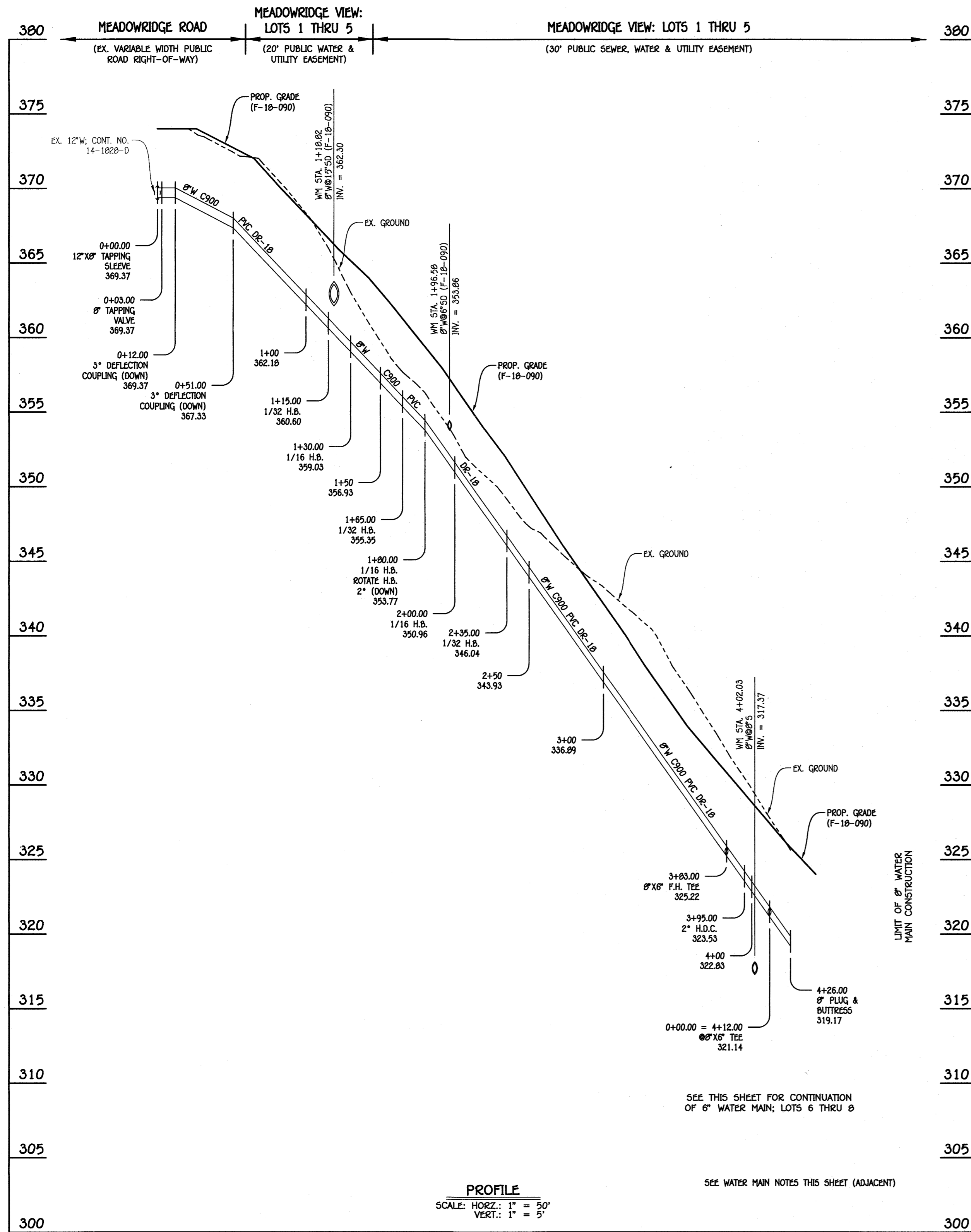


DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: MARCH, 2019
LEM: SHC AS BUILT TABLE
BY NO. REVISION
DATE: 6/29/21

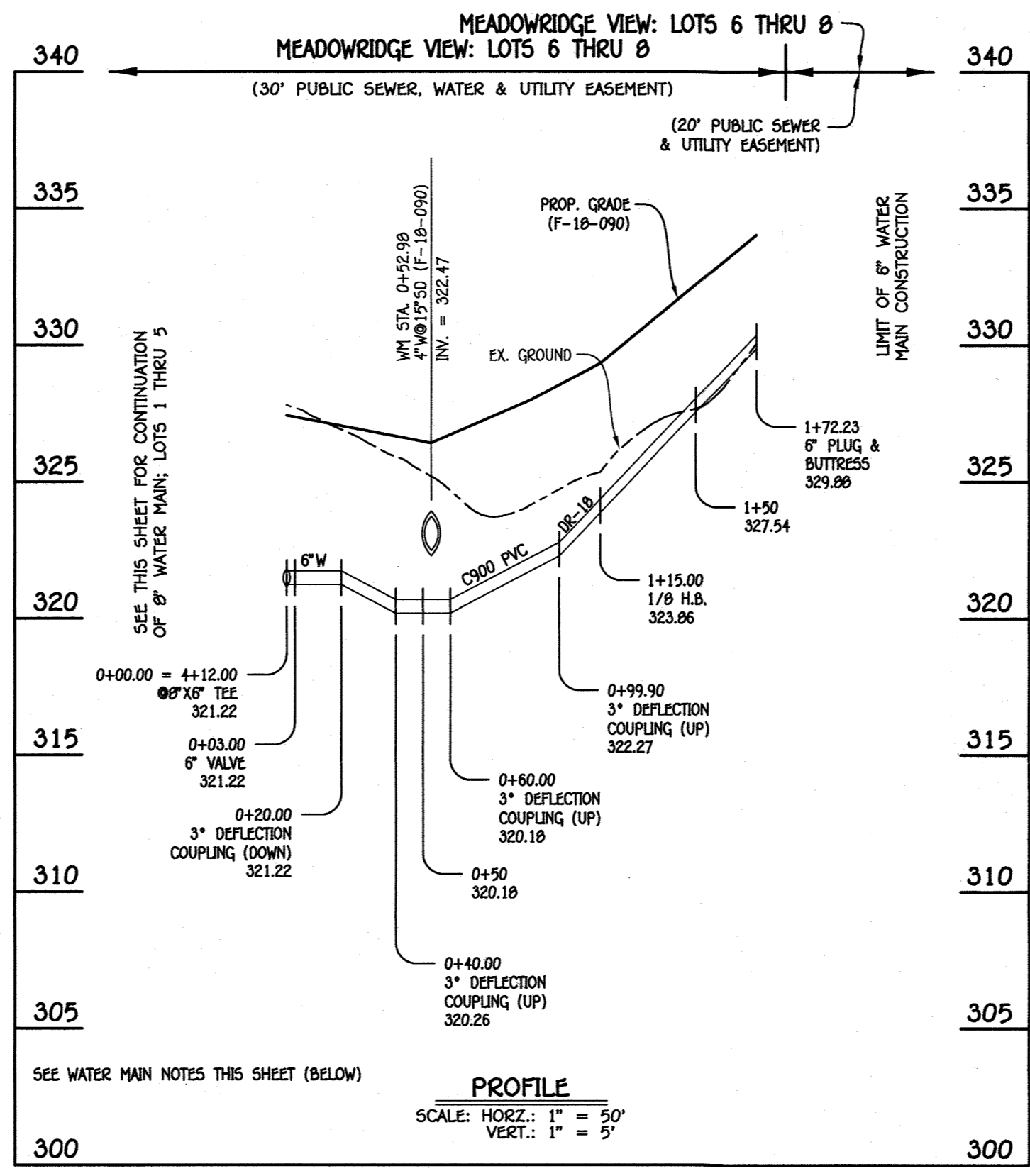
SEWER MAIN EXTENSIONS
PROFILES, CHARTS & TABLE
600' SCALE MAP NO. 37 BLOCK NO. 09
F.C.C. WORK ORDER NO. 16046-3001
FILE NAME: SEWER & WATER MAIN EXTENSIONS PLAN

MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
OPEN SPACE LOTS 9 THRU 11
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-5015-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 4 OF 6

I:\2018\16046\Engineering\Drawings\16046-3001 Sewer & Water Contract Planning, 3/26/2019 2:32:39 PM, Upstairs 1500 (Temporary).pc3



8" WATER MAIN: LOTS 1 THRU 5



6" WATER MAIN: LOTS 6 THRU 8

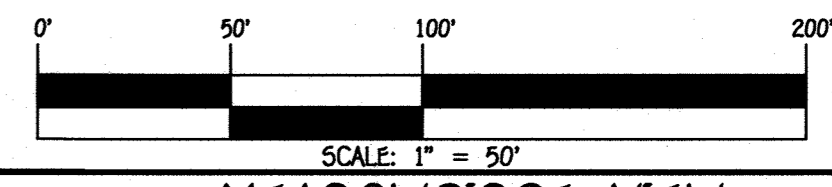
W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00 = 4+12.00	6" WATER MAIN: LOTS 6 THRU 8		
0+03.00	6" VALVE	560056.10	1374703.67
1+15.00	1/8 H.B.	559947.48	1374730.97
1+72.23	6" PLUG & BUTTRESS	559898.13	1374701.97

- 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.

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: LOTS 1 THRU 5			
0+00.00	12" X8" TAPPING SLEEVE	559899.24	1374340.84
0+03.00	8" TAPPING VALVE	559900.14	1374343.59
1+15.00	1/32 H.B.	559945.23	1374446.24
1+30.00	1/16 H.B.	559953.86	1374458.52
1+65.00	1/32 H.B.	559983.39	1374477.30
1+80.00	1/16 H.B.	559997.40	1374482.67
2+00.00	1/16 H.B.	560011.46	1374496.90
2+35.00	1/32 H.B.	560024.65	1374529.32
3+83.00	8" X6" F.H. TEE	560052.81	1374674.61
3+95.00	2" DEFLECTION COUPLING	560055.09	1374686.39
4+12.00	8" X6" TEE	560059.00	1374702.94
4+26.00	8" PLUG & BUTTRESS	560062.24	1374716.56

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		MH 220 29.5'	MH 215 85'
2		MH 215 8.9'	FH 146.3'
3		MH 215 63.4'	FH 86.6'
4		MH 210 41.5'	FH 23.3'
5		MH 210 22'	FH 37.6'
6		MH 225 51.2'	MH 230 10.9'
7		MH 230 46.6'	MH 235 2.9'
8		MH 230 66'	MH 235 17.5'

	LOCATION DIMENSION 1	LOCATION DIMENSION 2
8" VALVE MONTGOMERY ROAD	EX. FH 94.8'	I-4 118.3'
F.H.V.	MH 210 19.8'	FH 16.1'
6" VALVE	MH 210 17.2'	FH 34.1'



CONTRACT NO. 14-5015-D
MEADOWRIDGE VIEW
LOTS 1 THRU 8 &
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HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL Pk.
ELLSWORTH CITY, MARYLAND 21042
(410) 461-3995

DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: MARCH, 2019

PAUL W. KRIEDEL

CHIEF, BUREAU OF UTILITIES
DATE: 4/2/19

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 4.22.19

WATER MAIN EXTENSIONS
PROFILES, NOTES, CHARTS & TABLE

600' SCALE MAP NO. 37 BLOCK NO. 09
F.C.C. WORK ORDER NO. 16046-3001
FILE NAME: SEWER & WATER MAIN EXTENSIONS PLAN

MEADOWRIDGE VIEW
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SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-5015-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 6

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