

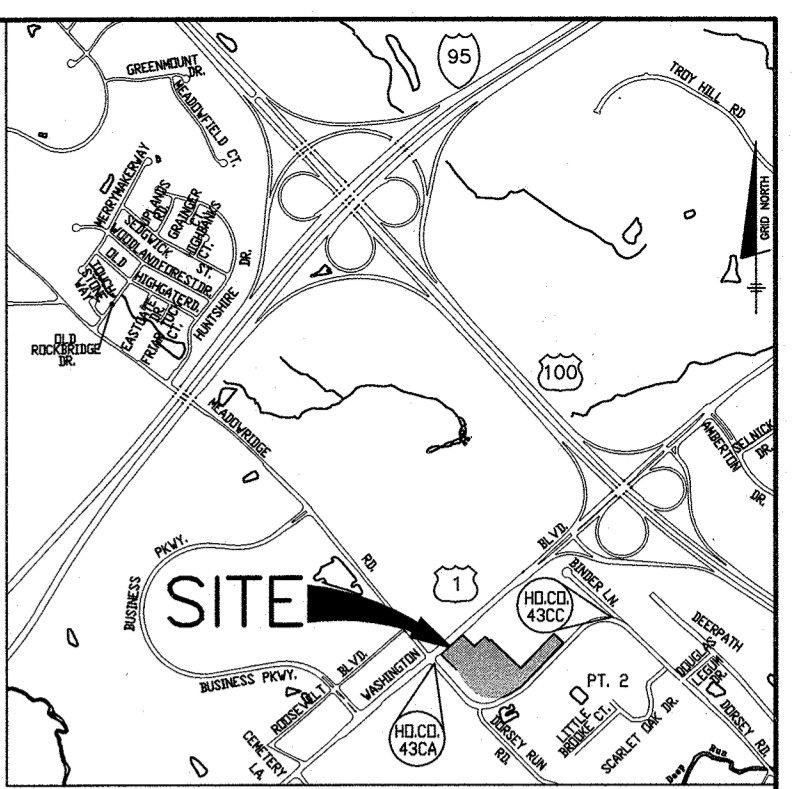
PUBLIC WATER AND SEWER CORRIDOR SQUARE PARCEL A 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO.: 14-5029-D

QUANTITIES				
ITEMS	ESTIMATED QUANTITIES	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
*16" WATER (PVC C900 DR14)	644 L.F.	-	-	-
8" WATER (PVC C900 DR14)	995 L.F.	890	C-900	NATIONAL PIPE & PLASTICS
6" WATER (PVC C900 DR14)	141 L.F.	140	C-900	NATIONAL PIPE & PLASTICS
FIRE HYDRANT	4 EACH	2	A423	MUELLER COMPANY
8"x6" TEE & VALVE	3 EACH	3	C-153	TYLER / UNION
8"x8" TS&V	1 EACH	1	C-153	TYLER / UNION
8"x8" TEE	1 EACH	1	C-153	TYLER / UNION
*16"x8" TEE	-2 EACH-	-	-	-
*16"x6" TEE & VALVE	-1 EACH-	-	-	-
*16" CAP & BUTTRESS	-1 EACH-	-	-	-
16" VALVE	-2 EACH-	-	-	-
8" VALVE	4 EACH	3	A236I23	MUELLER COMPANY
8" CAP & BUTTRESS	-2 EACH-	-	-	-
8" SEWER (PVC)	910 L.F.	915	-	CONTRACTORS PRECAST
MH (G-5.12)	5 EACH	5	-	-

NAME OF UTILITY CONTRACTOR: KINSLEY CONSTRUCTION
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 4-27-21
*CONSTRUCTED UNDER CONTRACT # 44-5116

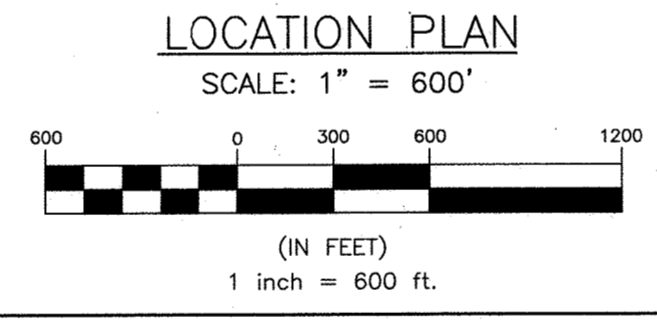
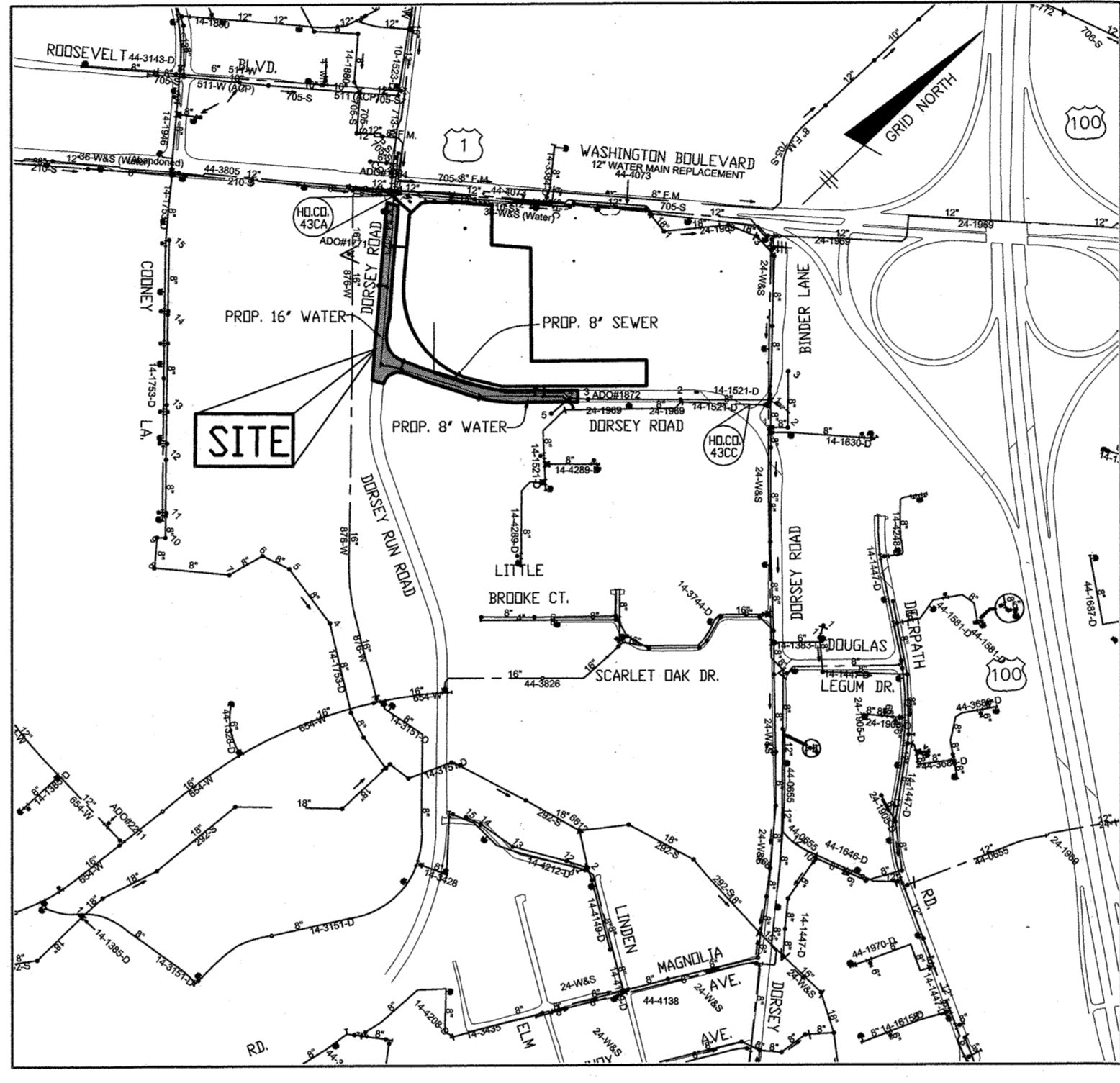
TRAVERSE CHART			
NO.	DESCRIPTION	COORDINATE	ELEVATION
1	R/C	N. 552742.5052 E. 1380706.3780	169.98
2	R/C	N. 552373.9839 E. 1380259.2000	174.73
3	R/C	N. 552089.3228 E. 1379901.6930	177.79
4	R/C	N. 552395.0730 E. 1379503.5100	185.58

BENCH MARKS (NAD'83)
HO.CO. No.43CA ELEV.191.633
STAMPED (BRASS OR ALUMINUM) DISC SET
TOP OF A 3" DEEP COLUMN OF CONCRETE.
AT CORNER US-1 AND DORSEY ROAD
N 5528660129 E 13793880380
HO.CO. No.43CC ELEV.163.700
CONCRETE MONUMENT WITH BRASS DISC
AT RT-105(DORSEY ROAD) 1/16 E.158.28
N 553201462 E 1381152.814



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP NO. 35 GRID A-5

SHEET INDEX	
NO.	DESCRIPTION
1	WATER AND SEWER TITLE SHEET
2	WATER AND SEWER PLAN
3	WATER AND SEWER PROFILES
4	SEDIMENT AND EROSION CONTROL PLAN
5	MAINTENANCE OF TRAFFIC PLAN



TYPE OF BUILDING:	APARTMENT
NO. OF BUILDABLE PARCELS:	1
NUMBER OF SHC'S:	4
NUMBER OF WHC'S:	2
DRAINAGE AREA:	DEEP RUN
TREATMENT PLANT:	PATAPSCO WWTP
WATER ZONE:	400
TEST GRADIENT:	677(8")
TEST GRADIENT:	631-696(16")
TEST PRESSURE:	222(8")
TEST PRESSURE:	198(16")

LEGEND	
	EXIST. WATER MAIN
	EXIST. FIRE HYDRANT
	EXIST. SEWER MAIN
	EXIST. SEWER MANHOLE
	PROP. PUBLIC SEWER MAIN
	PROP. SEWER MANHOLE
	PROP. PRIVATE SEWER
	PROP. PUBLIC WATER MAIN
	PROP. VALVE
	PROP. FIRE HYDRANT
	PROP. PRIVATE WATER
	EX. FIBEROPTIC
	EX. ELECTRIC
	EX. GAS

CONSTRUCTION NOTES:

- ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)
- TESTING SHALL MEET SHA COMPACTION STANDARDS AND REQUIREMENTS AND DONE BY A MATCOP CERTIFIED TECH.
- IF PLATES ARE TO BE USED THEY NEED TO BE MILLED IN WITH 6" PINS IN EACH CORNER. TOTAL OF 4 PINS PER PLATE WITH COLD PATCH AROUND THEM. IF MORE THAN ONE PLATE IS NEEDED THEY WILL NEED TO BE WELDED BY A CERTIFIED WELDER PER SHA SPECS. IF PLATES ARE NOT USED THEN SIGNS WILL BE NEEDED TO INDICATE NO PLATES.
- COLD PATCH MAY BE USED AND GOOD FOR 21 DAYS. HOT MIX ASPHALT WILL NEED TO BE INSTALLED UNTIL THE MILLING AND OVERLAY IS DONE.
- ANY DISTURBANCE IN THE GRASSY AREAS FROM THE INSTALLATION OF THE FIRE HYDRANTS WILL NEED TO BE STABILIZED USING SEED/MULCH OR CURLEX MATTING.
- IF THERE ARE ANY SIDEWALK CLOSURES A DETOUR PLAN WILL NEED TO BE IN PLACE.
- CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF THE TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWN SLOPE OF) THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH.

GENERAL NOTES

PART 1 - GENERAL

- APPROXIMATE LOCATION 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.
- A TOPOGRAPHIC FIELD SURVEY WAS PERFORMED ON NOVEMBER 2016 BY BENCHMARK ENGINEERING, INC.
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM, MD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 0070 AND 41C2. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 0070 & 41C2.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". 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 BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWNED BY 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.
- 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.
- 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
BC&E (CONSTRUCTION SERVICES) 410-637-8713
BC&E (EMERGENCY) 410-695-0123
HO. CO. DPW - 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 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 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 FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/BACKING OF ANY COUNTY ROAD WITHIN CONSTRUCTION MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.

PART 2 - WATER

- ALL WATER MAINS TO BE PVC C900 DR14 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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 THE 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 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACE WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND P.V.C. WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUANTITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF MATERIAL FOR USE. 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 RECORD RECEIVED.
- UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METAL 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 HARNESSES, 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 P.V.C. 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 P.V.C. PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION INTO THE SPIGOT BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE P.V.C. PIPE.
- ALL CHANGES IN HORIZONTAL AND VERTICAL DIRECTION OF P.V.C. WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS, OR HIGH-DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF P.V.C. PIPE JOINTS IS PERMITTED. WHERE HIGH-DEFLECTION (HD) 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 (HD) COUPLINGS 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 (HD) COUPLING OR 5-DEGREE SWEEP. TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.
- P.V.C. HIGH-DEFLECTION (HD) COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1-1/2 DEGREES ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM OF 200-PSI MEETING THE REQUIREMENTS OF AWWA-C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. P.V.C. HIGH-DEFLECTION (HD) COUPLINGS SHALL BE CERTAIN-DEFLECT P.V.C. HIGH-DEFLECTION (HD) COUPLINGS OR EQUIV.
- 5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225-PSI, DR-18 MEETING THE REQUIREMENTS OF AWWA-C900, AND SHALL BE MULTI-FITTING (PEX) BLUE BRUTE DR-18 OR EQUIV.
- WHEN P.V.C. HIGH-DEFLECTION (HD) COUPLINGS OR P.V.C. 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA-C900 P.V.C. PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE P.V.C. SPIGOTS OR PLAN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION (HD) 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 EQUIV.
- FIRE SPRINKLER SYSTEMS FOR ALL SINGLE FAMILY DWELLINGS SHALL HAVE A MINIMUM OF A 1-1/2" CONNECTION WITH A 1" OUTSIDE METER SETTING.

PART 3 - 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 COVER, STANDARD DETAIL G-532. WHERE WATERTIGHT 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.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.
David C. ... 8/23/18
DATE

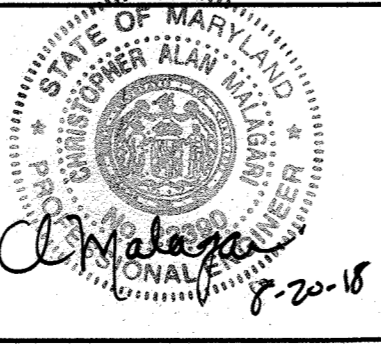
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 22396, Expiration Date: 6-30-2019.

OWNER:
CORRIDOR SQUARE, LLC
6800 DEERPATH ROAD
ELKBRIDGE, MD 21075
410.579.2442
DEVELOPER:
MURN DEVELOPMENT
6800 DEERPATH ROAD
ELKBRIDGE, MD 21075
410.579.2442

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
David C. ... 8-22-18
DATE
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
David C. ... 8-23-18
DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 • ELIJAH CITY, MARYLAND 21043
(P) 410-665-8105 (F) 410-665-8644
WWW.BE-CALVING.COM



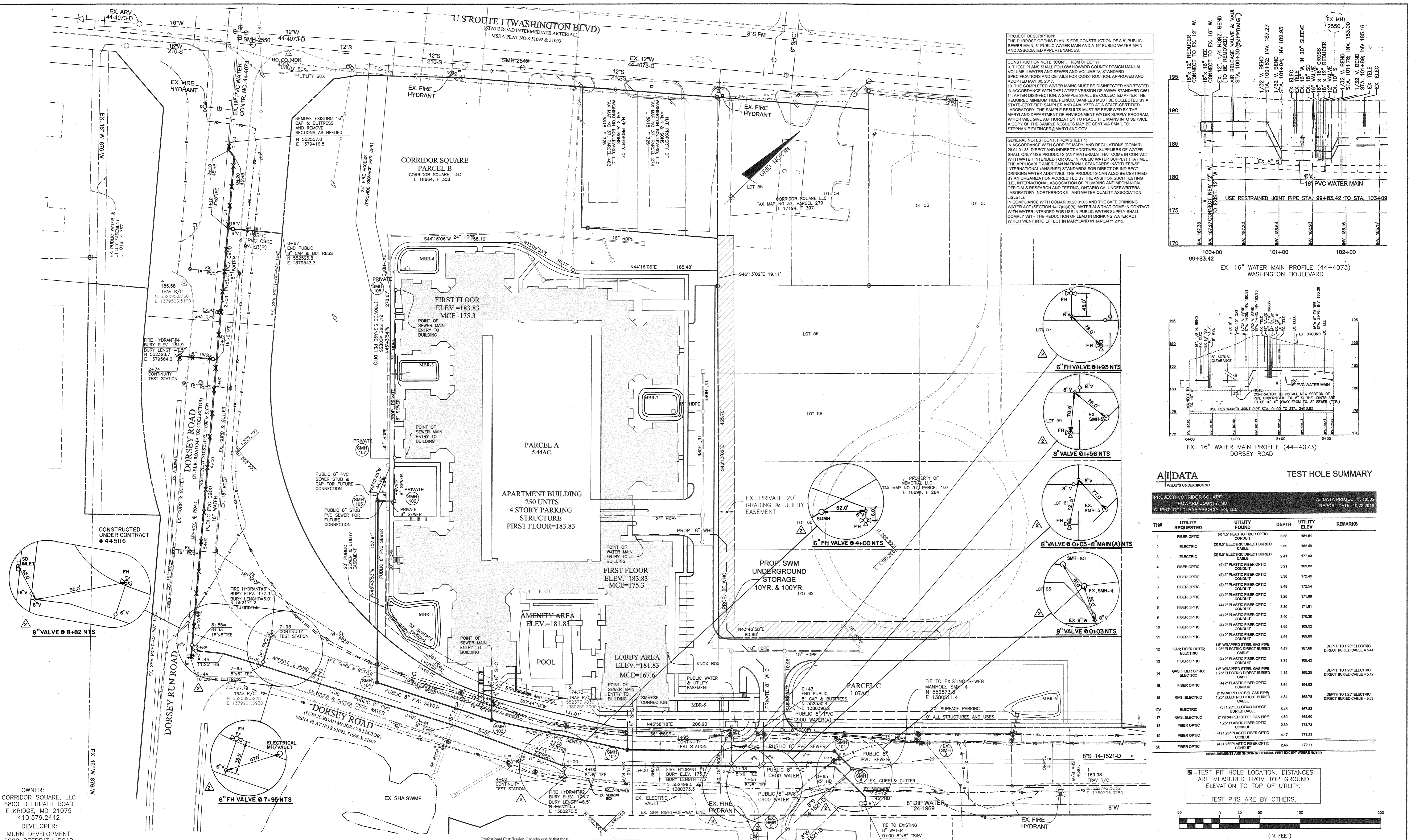
DES:	JCO				
DRAFT:	JCO				
CHK:	CAM				
DATE:	AUGUST 2018	BY:	NO.	AS-BUILT, ADDED QUANTITIES	6/22/2021
				REVISIONS	

**WATER AND SEWER
TITLE SHEET**

600 SCALE MAP # 37 & 43
BLOCK23 & 05

**CORRIDOR SQUARE
PARCEL A**
FIRST ELECTION DISTRICT
CONTRACT NO. 14-5029-D

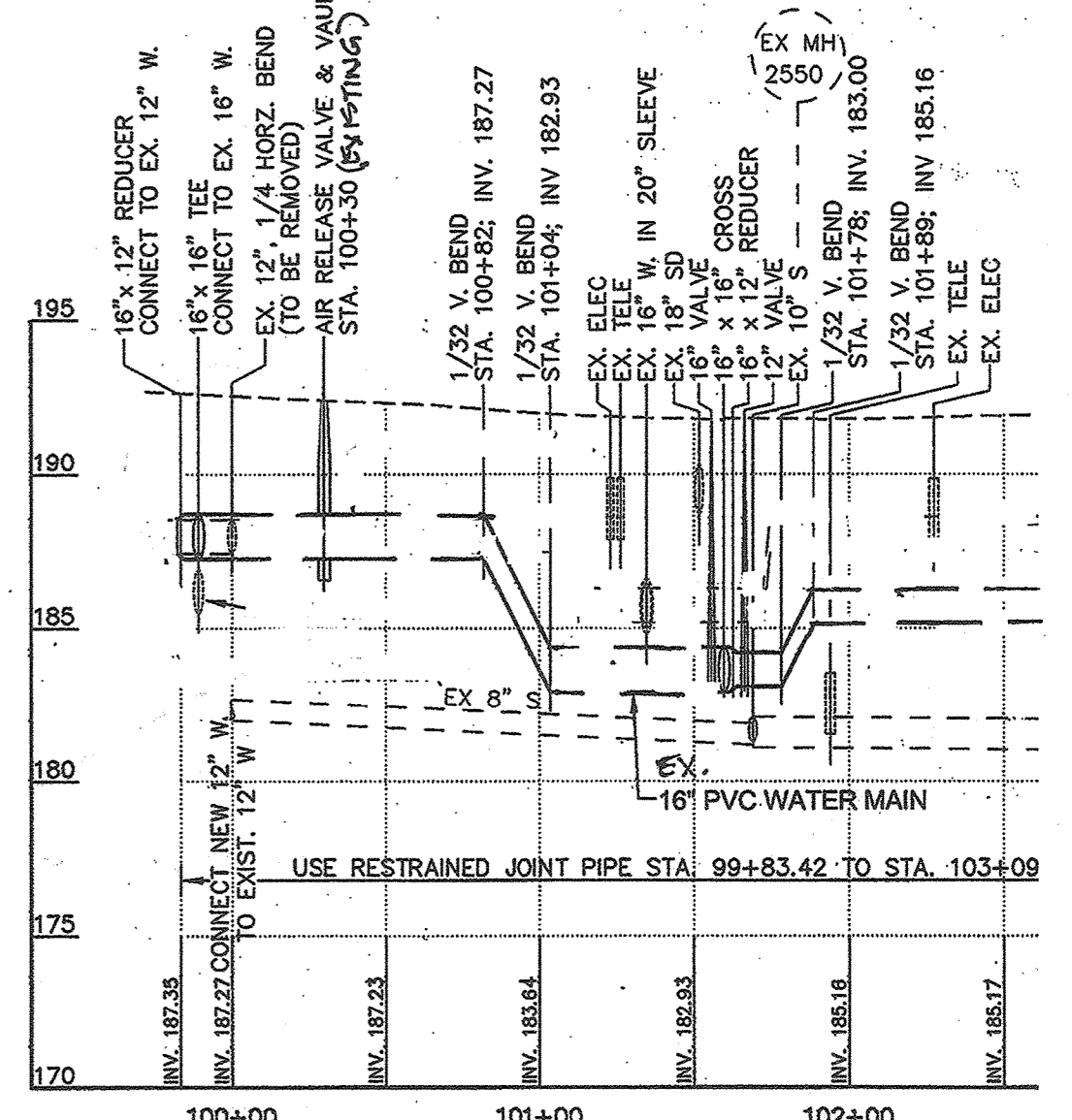
SCALE:
AS SHOWN
SHEET NO.
1 OF 5



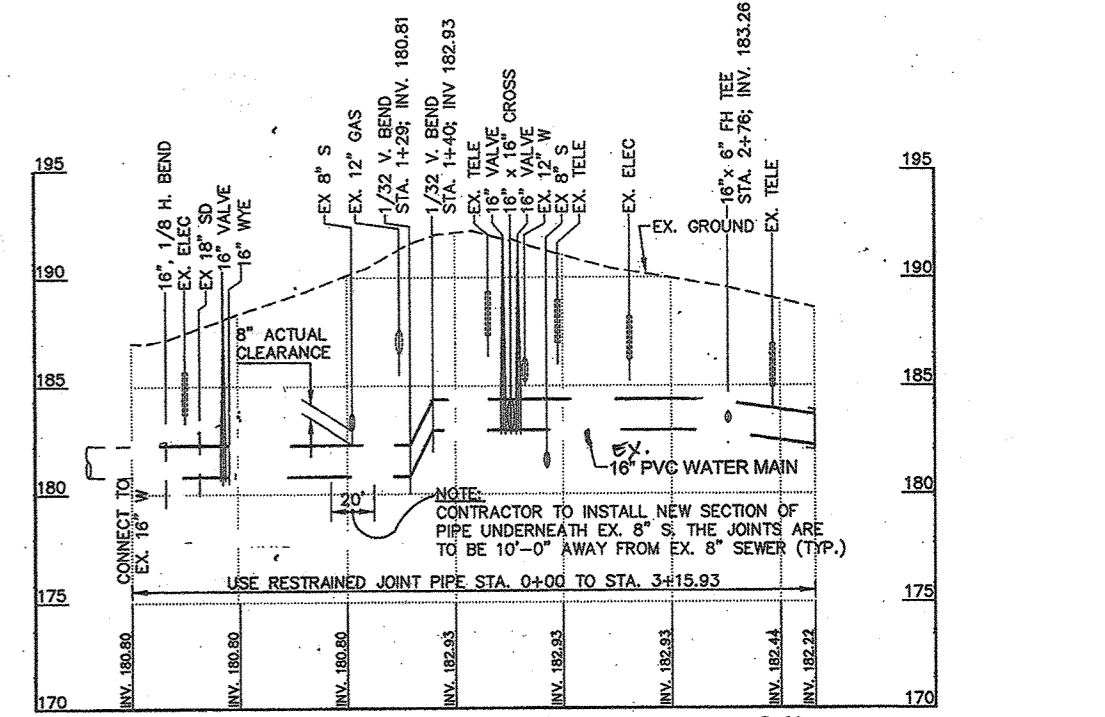
PROJECT DESCRIPTION:
 THE PURPOSE OF THIS PLAN IS FOR CONSTRUCTION OF A 6" PUBLIC SEWER MAIN, 8" PUBLIC WATER MAIN AND A 16" PUBLIC WATER MAIN AND ASSOCIATED APPURTENANCES.

CONSTRUCTION NOTE: (CONT. FROM SHEET 1)
 9. THESE PLANS SHALL FOLLOW HOWARD COUNTY DESIGN MANUAL VOLUME I WATER AND SEWER AND VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, APPROVED AND ADOPTED MAY 30, 2017.
 10. THE COMPLETED WATER MAINS MUST BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE LATEST VERSION OF ANWA STANDARD 0261.
 11. AFTER DISINFECTION, A SAMPLE SHALL BE COLLECTED AFTER THE REQUIRED MINIMUM TIME PERIOD. SAMPLES MUST BE COLLECTED BY A STATE-CERTIFIED SAMPLER AND ANALYZED AT A STATE-CERTIFIED LABORATORY. THE SAMPLE RESULTS MUST BE REVIEWED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT AND GENERAL SERVICES WHICH WILL GIVE AUTHORIZATION TO PLACE THE MAINS INTO SERVICE. A COPY OF THE SAMPLE RESULTS MAY BE SENT VIA EMAIL TO: STEPHANIE.EXTINCE@MARYLAND.GOV.

GENERAL NOTES: (CONT. FROM SHEET 1)
 IN ACCORDANCE WITH CODE OF MARYLAND REGULATIONS (COMAR) 26.04.01.33, DIRECT AND INDIRECT ADDITIVES, SUPPLIERS OF WATER SHALL ONLY USE PRODUCTS (ANY MATERIALS THAT COME INTO CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY) THAT MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE/INTERNATIONAL (ANSI/ISO) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES. THE PRODUCTS CAN ALSO BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY THE ANSI FOR SUCH TESTING (I.E. INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS RESEARCH AND TESTING, ONTARIO CA, UNDERWRITERS LABORATORY, NORTHBROOK IL, AND WATER QUALITY ASSOCIATION, LISLE IL).
 IN COMPLIANCE WITH COMAR 08.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(a)(4)(B)), MATERIALS THAT COME INTO CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT, WHICH WENT INTO EFFECT IN MARYLAND IN JANUARY 2012.



EX. 16" WATER MAIN PROFILE (44-4073) WASHINGTON BOULEVARD



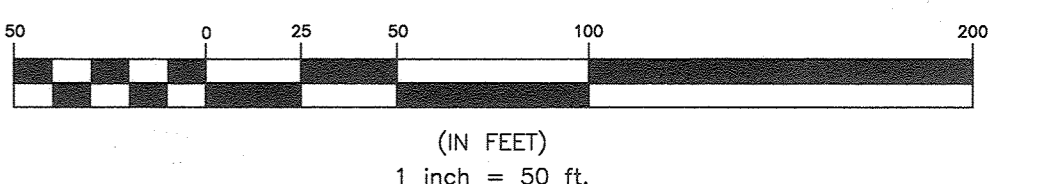
EX. 16" WATER MAIN PROFILE (44-4073) DORSEY ROAD

A/IDATA TEST HOLE SUMMARY

PROJECT: CORRIDOR SQUARE HOWARD COUNTY, MD
 CLIENT: GOLDLEAF ASSOCIATES, LLC
 A/IDATA PROJECT #: 18302
 REPORT DATE: 10/23/2018

TH#	UTILITY REQUESTED	UTILITY FOUND	DEPTH	UTILITY ELEV	REMARKS
1	FIBER OPTIC	(4) 1.5" PLASTIC FIBER OPTIC CONDUIT	3.58	181.81	
2	ELECTRIC	(3) 0.5" ELECTRIC DIRECT BURIED CABLE	3.60	182.49	
3	ELECTRIC	(3) 0.5" ELECTRIC DIRECT BURIED CABLE	2.41	177.03	
4	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.21	189.83	
5	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.38	172.46	
6	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.48	172.54	
7	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.26	171.38	
8	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.30	171.51	
9	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.40	170.30	
10	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.55	189.52	
11	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.44	169.89	
12	GAS; FIBER OPTIC; ELECTRIC	1.5" WRAPPED STEEL GAS PIPE; 1.25" ELECTRIC DIRECT BURIED CABLE	4.47	167.66	DEPTH TO 1.25" ELECTRIC DIRECT BURIED CABLE = 5.41
13	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.34	168.42	
14	GAS; FIBER OPTIC; ELECTRIC	1.5" WRAPPED STEEL GAS PIPE; 1.25" ELECTRIC DIRECT BURIED CABLE	4.15	168.25	DEPTH TO 1.25" ELECTRIC DIRECT BURIED CABLE = 5.12
15	FIBER OPTIC	(4) 2" PLASTIC FIBER OPTIC CONDUIT	3.34	168.62	
16	GAS; ELECTRIC	2" WRAPPED STEEL GAS PIPE; 1.25" ELECTRIC DIRECT BURIED CABLE	4.64	168.78	DEPTH TO 1.25" ELECTRIC DIRECT BURIED CABLE = 5.09
17A	ELECTRIC	(3) 1.25" ELECTRIC DIRECT BURIED CABLE	5.45	167.83	
17	GAS; ELECTRIC	2" WRAPPED STEEL GAS PIPE; 1.25" ELECTRIC DIRECT BURIED CABLE	4.89	168.60	
18	FIBER OPTIC	(4) 1.25" PLASTIC FIBER OPTIC CONDUIT	2.89	172.72	
19	FIBER OPTIC	(4) 1.25" PLASTIC FIBER OPTIC CONDUIT	4.17	171.23	
20	FIBER OPTIC	(4) 1.25" PLASTIC FIBER OPTIC CONDUIT	2.46	172.11	

MEASUREMENTS ARE SHOWN IN DECIMAL FEET EXCEPT WHERE NOTED.
 □ = TEST PIT HOLE LOCATION. DISTANCES ARE MEASURED FROM TOP GROUND ELEVATION TO TOP OF UTILITY.
 TEST PITS ARE BY OTHERS.



PLAN VIEW
 SCALE: 1" = 50'

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. 22390, Expiration Date: 6-30-2021.

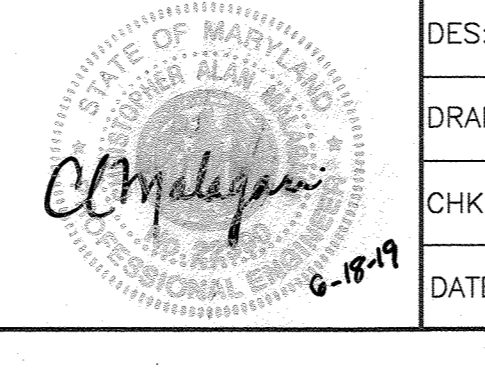
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 ELKDRIDGE, MD 21075
 410.579.2442

DEVELOPER:
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 ELKDRIDGE, MD 21075
 410.579.2442

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

BENCHMARK ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE & SUITE 3154 ELLOTT CITY, MARYLAND 21043
 (P) 410-465-1000 (F) 410-465-6844
 WWW.BE-CIVILENGINEERING.COM



DES:	JCO		
DRAFT:	JCO		
CHK:	CAM		
DATE:	AUGUST 2018		
BY:	NO.	REVISIONS	DATE
		AS-BUILT, ADDED WATER VALVE STAKEOUT	6/22/2021
		PROVIDE NOTES PER MDE REVIEW, REVISE FIRE HYDRANT BURY LENGTHS	6.14.19
		REVISE 8" WATER MAIN LOCATION STA 0+71 TO 4+17, LOWER 8" MAIN FOR GAS MAIN CROSSING, REVISED 16" MAIN INVERTS 1+48 TO 2+27	6.14.19

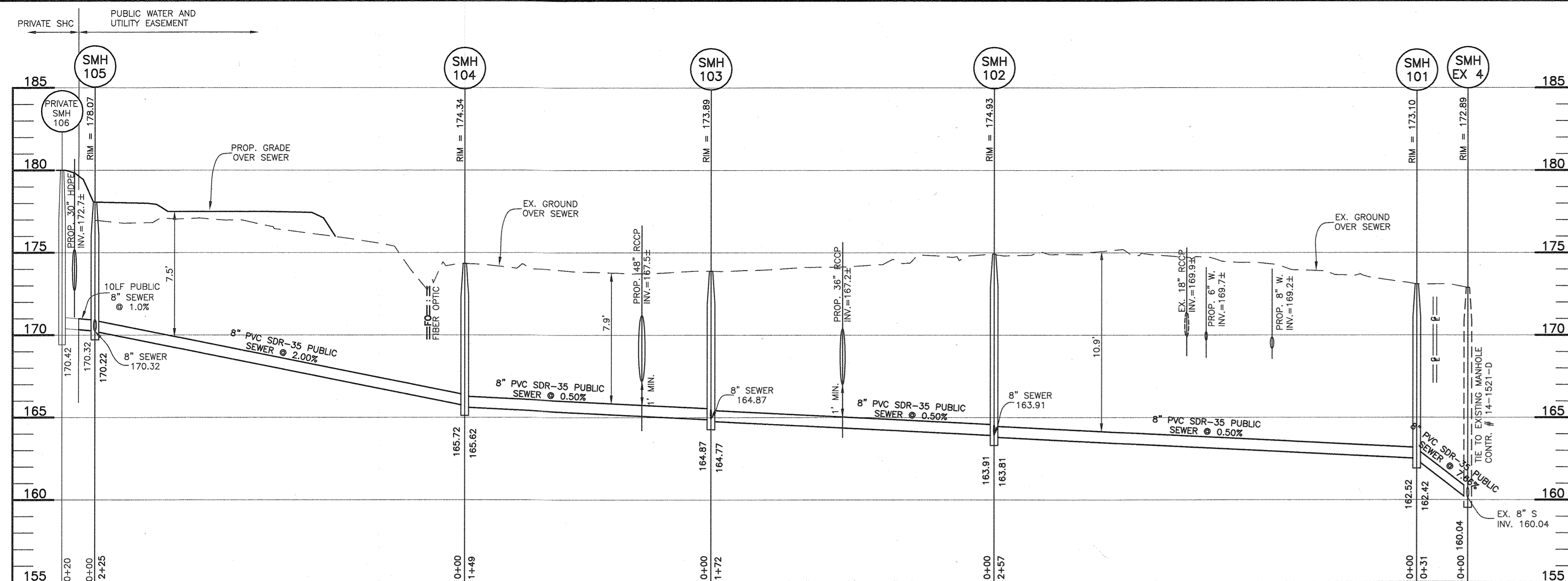
WATER AND SEWER PLAN
 600 SCALE MAP # 37 & 43
 BLOCK 23 & 05

THIS SHEET REPLACES ORIGINAL SHEET 2 OF 5

CORRIDOR SQUARE
 PARCEL A
 FIRST ELECTION DISTRICT
 CONTRACT NO. 14-5029-D

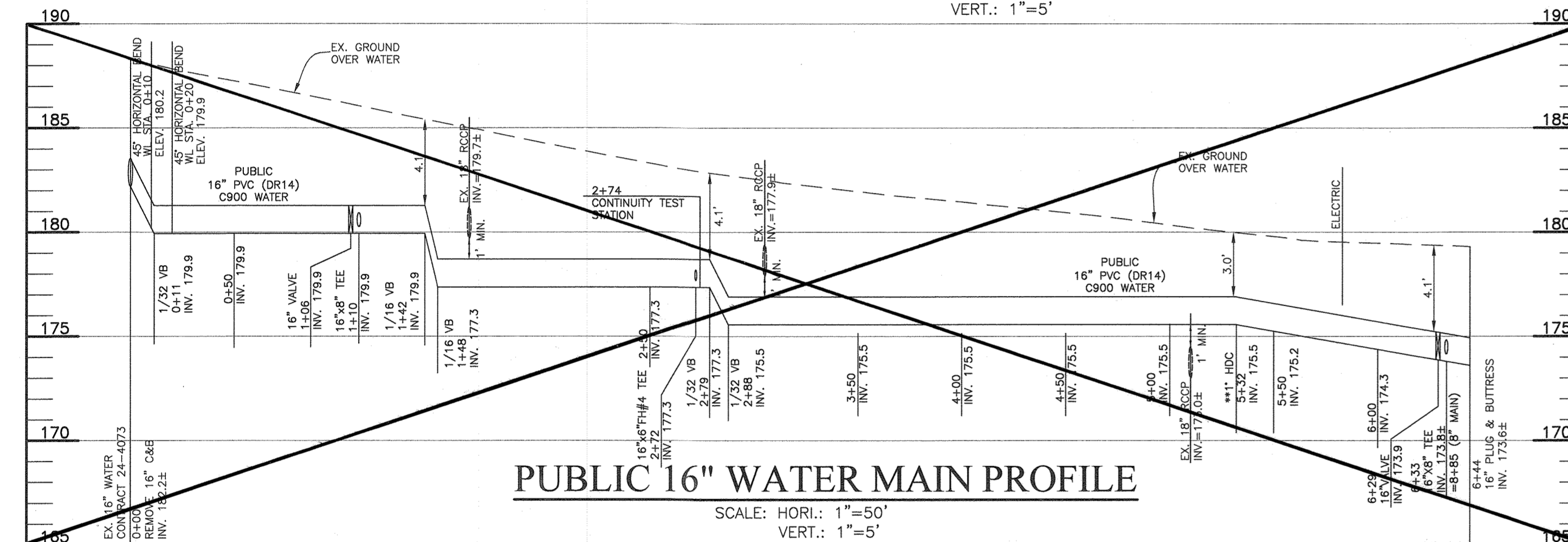
SCALE:
 AS SHOWN

SHEET NO.
 2 OF 5



PUBLIC SEWER MAIN PROFILE

SCALE: HORI.: 1"=50'
VERT.: 1"=5'



PUBLIC 16" WATER MAIN PROFILE

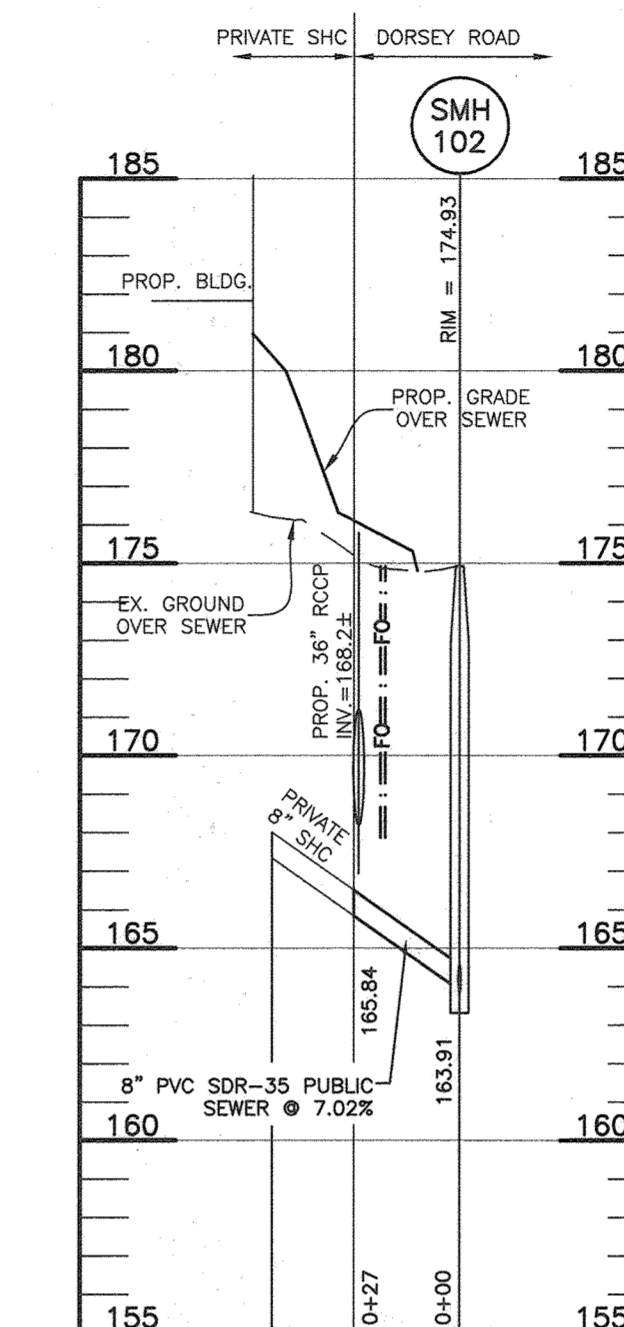
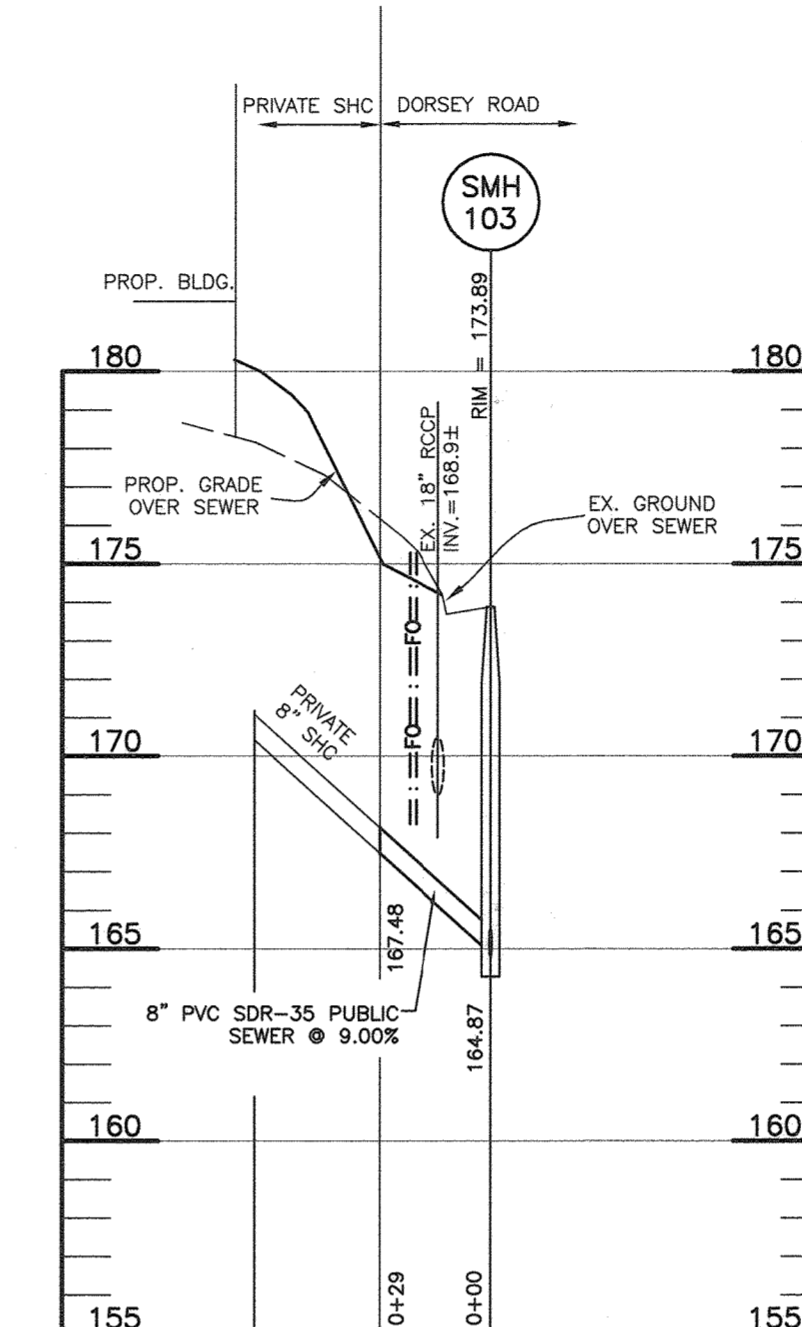
SCALE: HORI.: 1"=50'
VERT.: 1"=5'

CONSTRUCTED UNDER CONTRACT # 44-5116

APPURTENANCE	WATER LINE STATION	LOCATION
REMOVE 16" PLUG & BUTTRISS	WL STA. 0+00	N: 552,557.0 E: 1,379,416.8
45° HORIZONTAL BEND	WL STA. 0+10	N: 552,555.4 E: 1,379,423.5
1/32" VB	WL STA. 0+11	N: 552,549.4 E: 1,379,424.4
45° HORIZONTAL BEND	WL STA. 0+20	N: 552,548.7 E: 1,379,433.8
16" VALVE	WL STA. 1+06	N: 552,484.3 E: 1,379,490.0
16"x8" TEE	WL STA. 1+42	N: 552,481.4 E: 1,379,492.5
1/16" VB	WL STA. 1+42	N: 552,457.1 E: 1,379,513.7
1/16" VB	WL STA. 1+98	N: 552,414.9 E: 1,379,550.6
16"x6" TEE	WL STA. 2+72	N: 552,359.2 E: 1,379,599.2
1/32" VB	WL STA. 2+79	N: 552,353.9 E: 1,379,603.8
1/32" VB	WL STA. 2+88	N: 552,347.1 E: 1,379,609.7
**1" VHDC	WL STA. 5+32	N: 552,163.3 E: 1,379,770.2
16" VALVE	WL STA. 6+29	N: 552,090.2 E: 1,379,833.9
16"x8" TEE	WL STA. 6+33	N: 552,086.9 E: 1,379,836.7
1" CAP & BUTTRISS	WL STA. 6+44	N: 552,078.7 E: 1,379,843.9

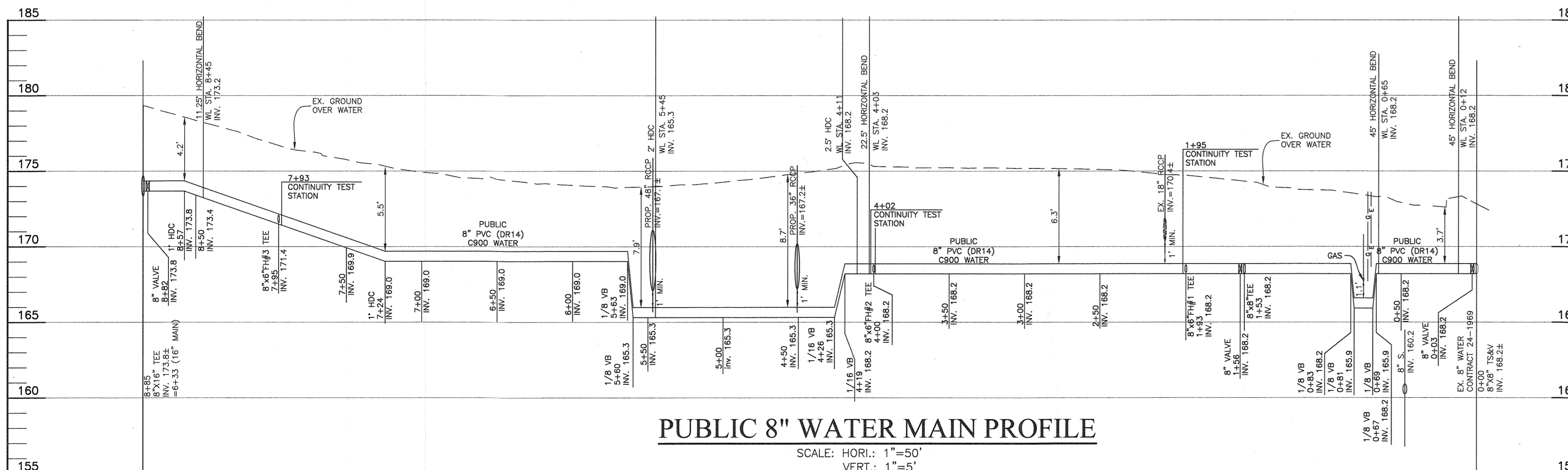
** FOR 16" 1" VHDC PROVIDE C905 PVC(DR11) EBAA RESTRAINING COUPLING SERIES 3800 OR EQUAL.

STRUCTURE TABLE								
NUMBER	TYPE	LOCATION	INVERT IN	INVERT OUT	TOP ELEV.	STD. DETAIL	OWNER	REMARKS
101	48" MH	N. 552573.08 E. 1380480.33	162.52(8")	162.42(8")	173.10	G-5.12	PUBLIC	
102	48" MH	N. 552389.71 E. 1380300.67	163.91(8") 163.91(8")	163.81(8")	174.93	G-5.12	PUBLIC	
103	48" MH	N. 552294.42 E. 1380157.36	164.87(8") 164.87(8")	164.77(8")	173.89	G-5.12	PUBLIC	
104	48" MH	N. 552224.63 E. 1380025.17	165.72(8")	165.62(8")	174.34	G-5.12	PUBLIC	
105	48" MH	N. 552381.48 E. 1379864.26	170.32(8")	170.22(8")	178.07	G-5.12	PUBLIC	



PUBLIC SEWER MAIN PROFILE

SCALE: HORI.: 1"=50'
VERT.: 1"=5'



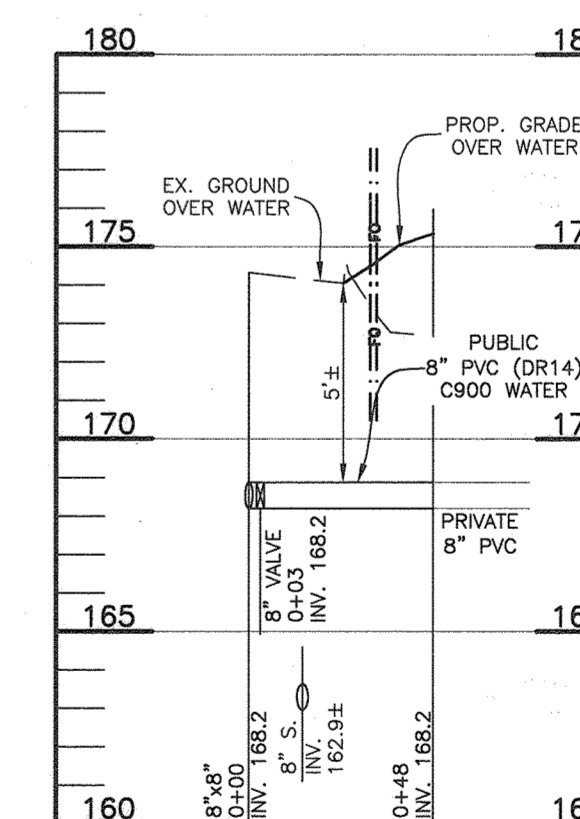
PUBLIC 8" WATER MAIN PROFILE

SCALE: HORI.: 1"=50'
VERT.: 1"=5'

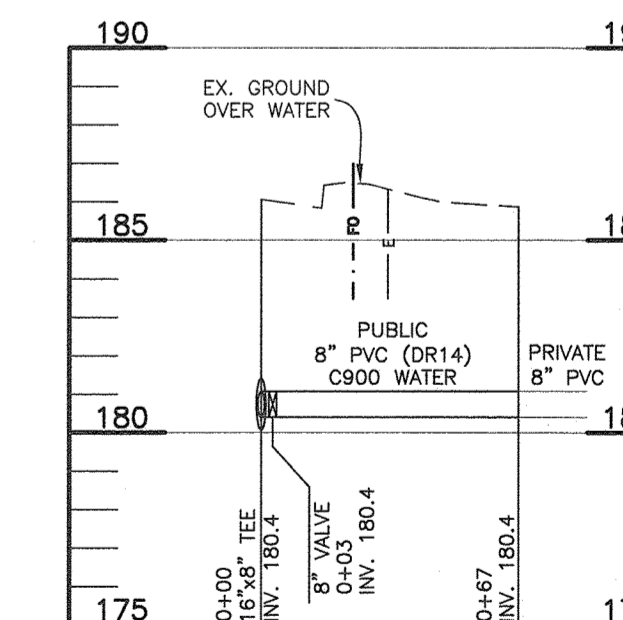
8" WATER MAIN

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. 22390, Expiration Date: 6-30-2021.

8" PUBLIC WATER APPURTENANCE SCHEDULE		
APPURTENANCE	WATER LINE STATION	LOCATION
8"x8" TS&V	WL STA. 0+00	N: 552,553.3 E: 1,380,555.9
8" VALVE	WL STA. 0+03	N: 552,555.4 E: 1,380,553.8
45° HORIZONTAL BEND	WL STA. 0+12	N: 552,561.5 E: 1,380,547.4
45° HORIZONTAL BEND	WL STA. 0+15	N: 552,560.2 E: 1,380,494.3
1/8" VB	WL STA. 0+67	N: 552,560.2 E: 1,380,491.8
1/8" VB	WL STA. 0+69	N: 552,560.2 E: 1,380,489.8
1/8" VB	WL STA. 0+81	N: 552,553.1 E: 1,380,480.3
1/8" VB	WL STA. 0+83	N: 552,551.6 E: 1,380,476.9
8"x8" TEE	WL STA. 1+53	N: 552,493.5 E: 1,380,432.7
8"x6" TEE	WL STA. 1+93	N: 552,468.4 E: 1,380,404.8
8"x6" TEE	WL STA. 4+00	N: 552,320.4 E: 1,380,260.3
22.5" HORIZONTAL BEND	WL STA. 4+03	N: 552,318.2 E: 1,380,258.4
2.5" VHDC	WL STA. 4+11	N: 552,315.0 E: 1,380,256.1
1/16" VB	WL STA. 4+19	N: 552,311.6 E: 1,380,243.9
1/16" VB	WL STA. 4+26	N: 552,308.5 E: 1,380,237.6
Z HDC	WL STA. 5+45	N: 552,256.9 E: 1,380,130.7
1/8" VB	WL STA. 5+60	N: 552,249.9 E: 1,380,117.3
1/8" VB	WL STA. 5+63	N: 552,248.1 E: 1,380,114.7
1" VHDC	WL STA. 7+24	N: 552,170.7 E: 1,379,973.6
8"x6" TEE	WL STA. 7+95	N: 552,136.3 E: 1,379,910.9
11.25" HORIZONTAL BEND	WL STA. 8+45	N: 552,112.1 E: 1,379,866.9
1" VHDC	WL STA. 8+57	N: 552,104.9 E: 1,379,858.2
8" VALVE	WL STA. 8+82	N: 552,088.9 E: 1,379,839.0
8"x16" TEE	WL STA. 8+85	N: 552,086.9 E: 1,379,836.7



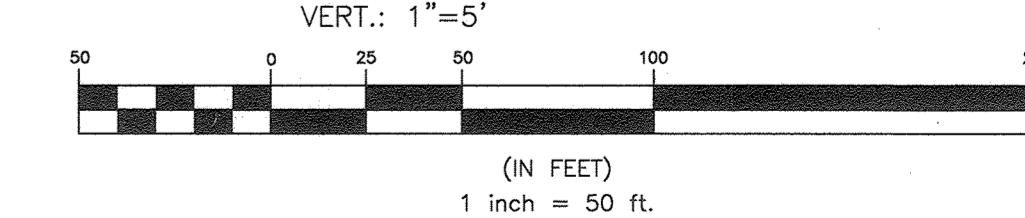
**8" MAIN(A)
CONNECTION FOR CORRIDOR
SQUARE BUILDING**



**8" MAIN(B)
CONNECTION FOR FUTURE PARCEL 'B'**

PUBLIC WATER MAIN PROFILE

SCALE: HORI.: 1"=50'
VERT.: 1"=5'



OWNER: CORRIDOR SQUARE, LLC
DEVELOPER: MURN DEVELOPMENT
6800 DEERPATH ROAD
ELKRIDGE, MD 21075
410.579.2442

THIS SHEET REPLACES ORIGINAL SHEET 3 OF 5

**WATER AND SEWER
PROFILES**

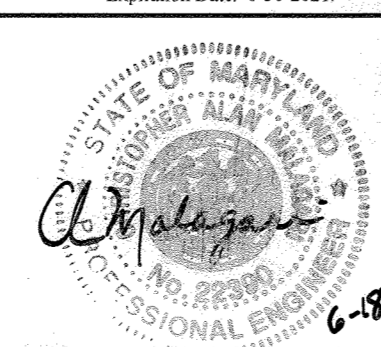
**CORRIDOR SQUARE
PARCEL A**
FIRST ELECTION DISTRICT
CONTRACT NO. 14-5029-D

SCALE:
AS SHOWN
SHEET NO.
3 OF 5

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

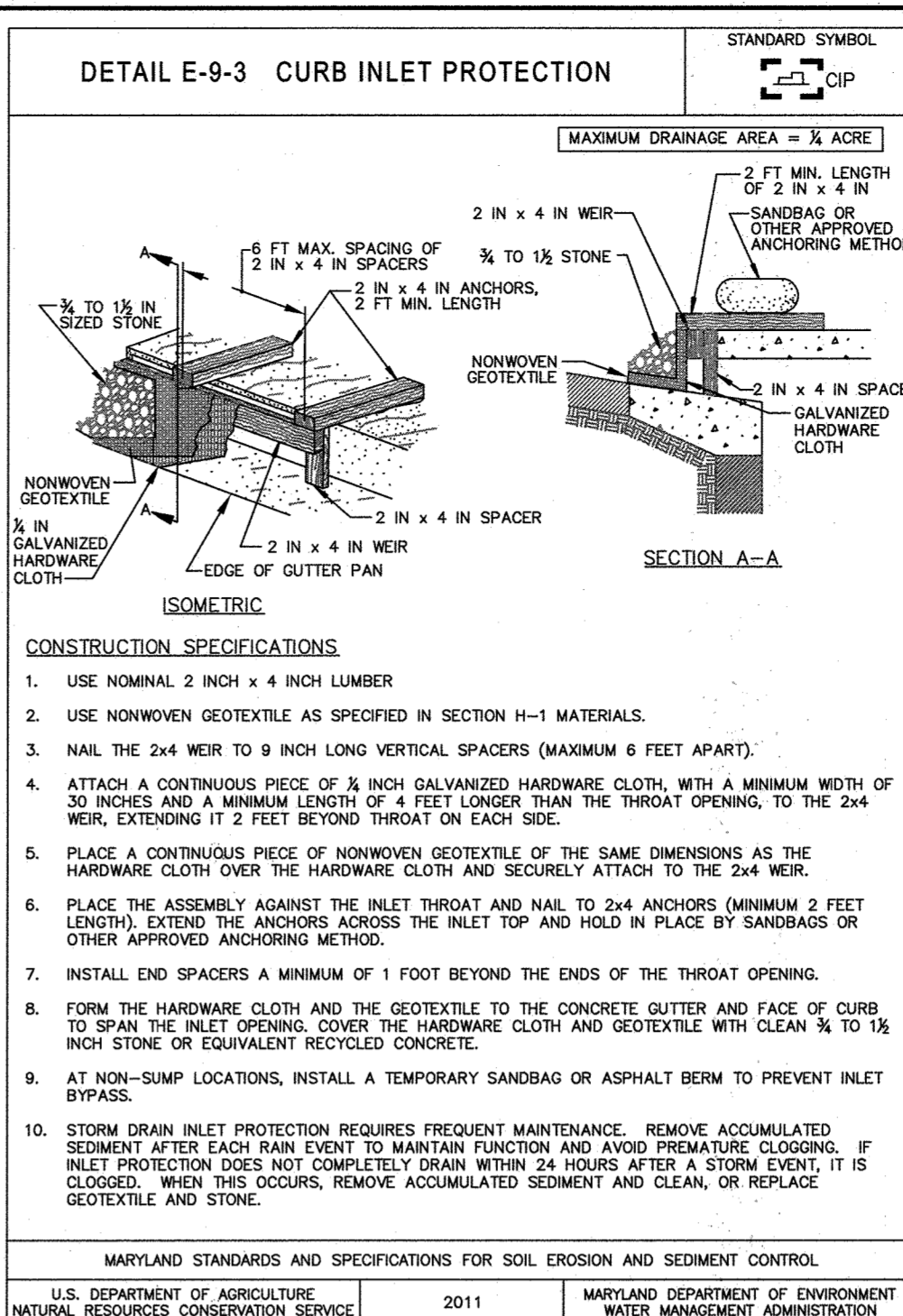
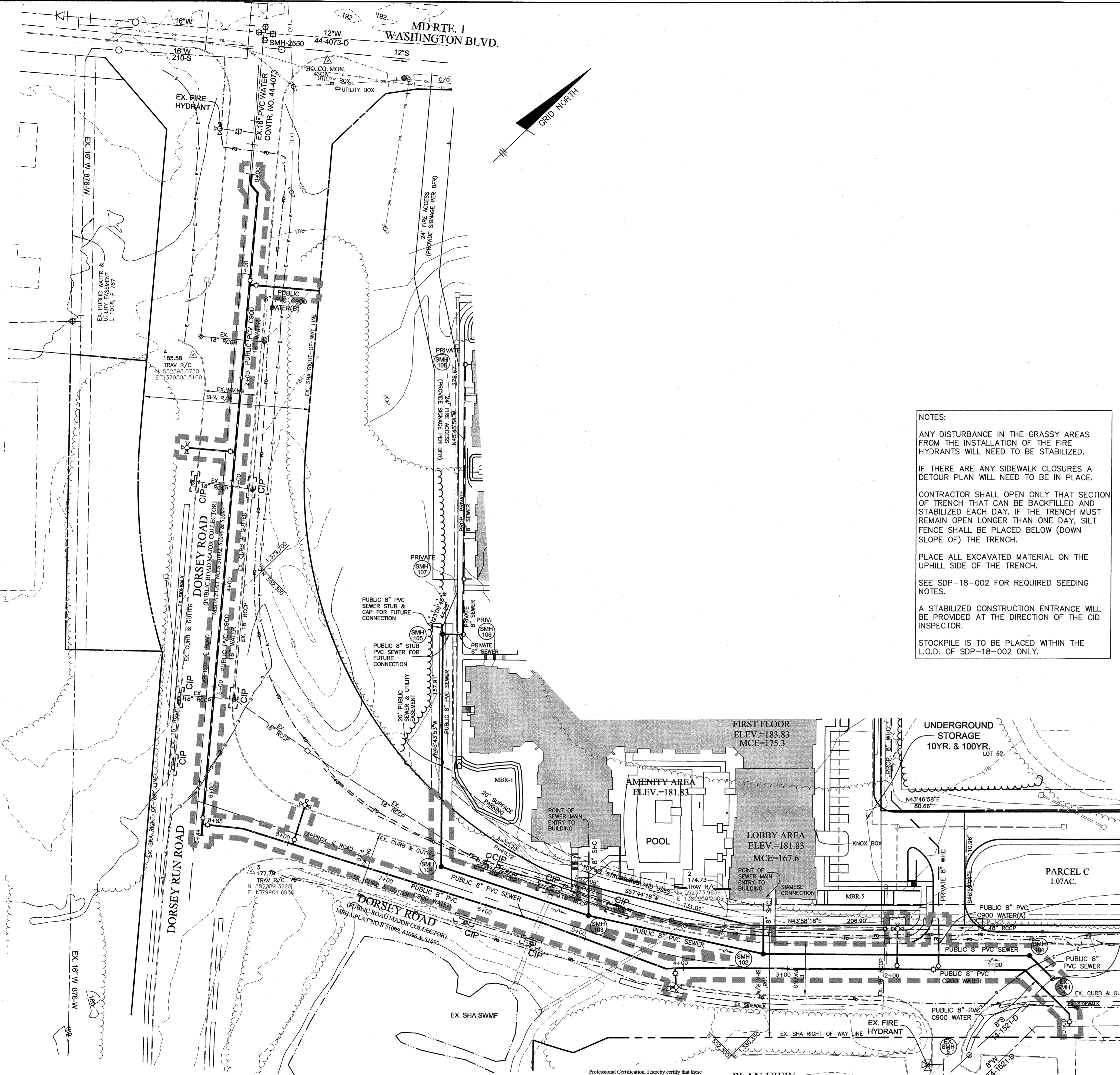
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8400 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6844
WWW.BE-CIVILENGINEERING.COM



DES:	JCO		
DRAFT:	JCO		
CHK:	CAM		
DATE:	AUGUST 2018		
BY:	NO.	REVISIONS	DATE
		AS-BUILT REMOVE 16" WATER PROFILE AND APPURT. SCHEDULE.	6/22/2021
		PROVIDE NOTES PER MDE REVIEW, REVISE FIRE HYDRANT BURY LENGTHS.	
		REVISE 8" WATER MAIN LOCATION STA 0+71 TO 4+17, LOWER 8" MAIN FOR GAS MAIN CROSSING, REVISED 16" MAIN INVERTS 1+48 TO 2+27	6.14.19

600 SCALE MAP # 37 & 43 BLOCK 23 & 05



- ### STANDARD SEDIMENT CONTROL NOTES
- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
 - PRIOR TO THE START OF EARTH DISTURBANCE.
 - UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
 - PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.
 - OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-3), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-5). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET, ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE.
 - AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.
 - SITE ANALYSIS:

TOTAL AREA OF SITE:	1.2 ACRES
AREA TO BE ROOFED OR PAVED:	1.2 ACRES
AREA TO BE VEGETATIVELY STABILIZED:	0.1 ACRES
TOTAL CUT:	5,500 CU. YDS.
TOTAL FILL:	3,500 CU. YDS.

 OFFSITE WASTE/BORROW AREA LOCATION: *
 ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID, THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY, AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
 - INSPECTION DATE
 - INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
 - NAME AND TITLE OF INSPECTOR
 - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
 - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
 - EVIDENCE OF SEDIMENT DISCHARGES
 - IDENTIFICATION OF PLAN DEFICIENCIES
 - IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
 - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
 - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
 - PHOTOGRAPHS
 - MONITORING/SAMPLING
 - MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
 OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
 TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
 ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
 DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID, UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD. NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
 WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.
 TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ON FINAL GRADE.
 ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON THE -CONTOUR, AND BE IMBERICATED AT 25' MINIMUM INTERVALS WITH LOWER ENDS CURLED UPWARD BY 2' IN ELEVATION.
 STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):
 - USE I AND IP MARCH 1 - JUNE 15
 - USE II AND IP OCTOBER 1 - APRIL 30
 - USE IV MARCH 1 - MAY 31
 A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.
 REV. 8/2015
 * IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/BORROW SITE AND NOTIFY AND OBTAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND ITS GRADING PERMIT NUMBER AT THE TIME OF CONSTRUCTION.

NOTES:

ANY DISTURBANCE IN THE GRASSY AREAS FROM THE INSTALLATION OF THE FIRE HYDRANTS WILL NEED TO BE STABILIZED.

IF THERE ARE ANY SIDEWALK CLOSURES A DETOUR PLAN WILL NEED TO BE IN PLACE.

CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF THE TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWN SLOPE OF) THE TRENCH.

PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH.

SEE SDP-18-002 FOR REQUIRED SEEDING NOTES.

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE CID INSPECTOR.

STOCKPILE IS TO BE PLACED WITHIN THE L.O.D. OF SDP-18-002 ONLY.

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Cl Malaga 8/20/18
ENGINEER DATE

DEVELOPER'S CERTIFICATE

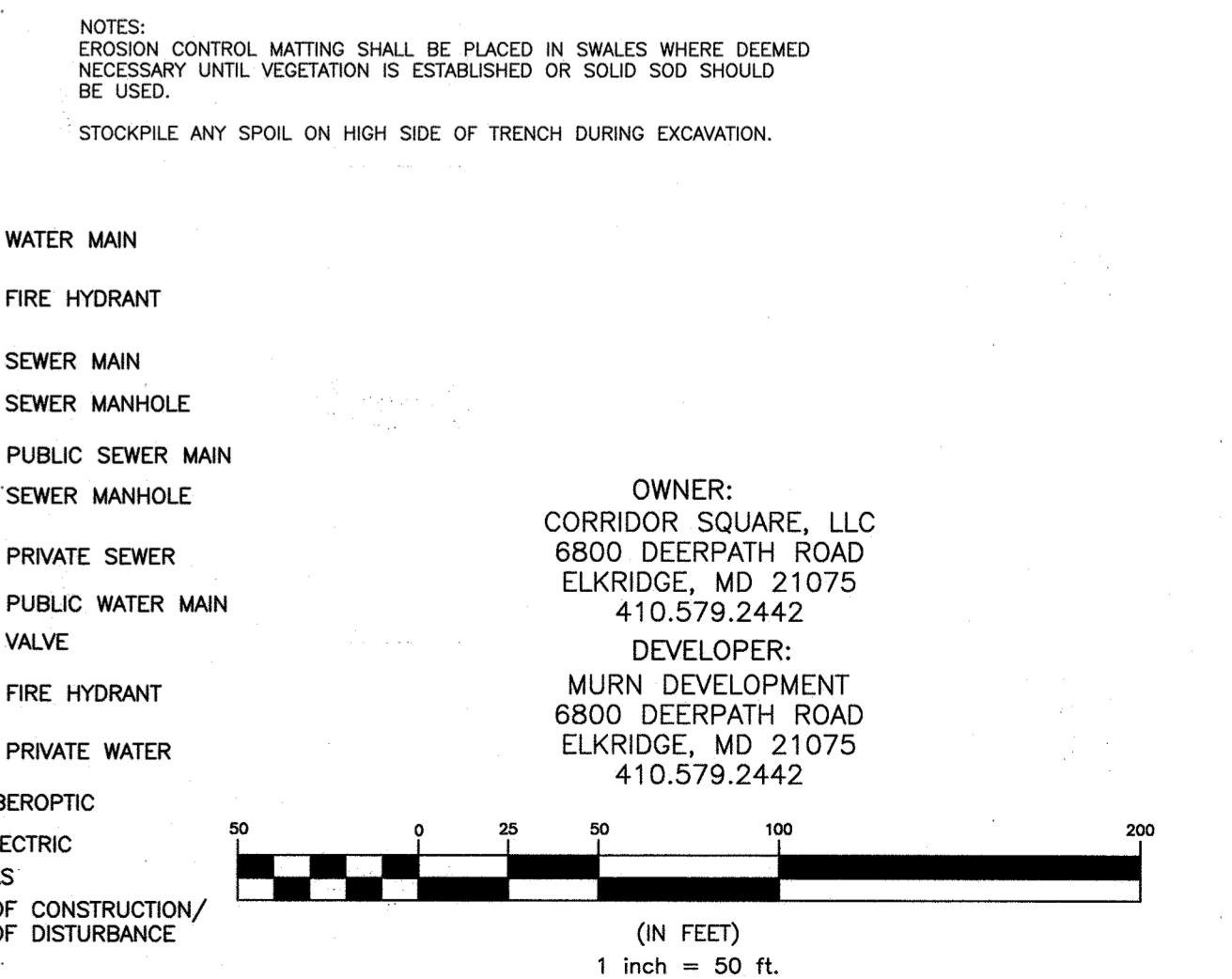
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL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

M Ty 8/23/18
DEVELOPER DATE

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

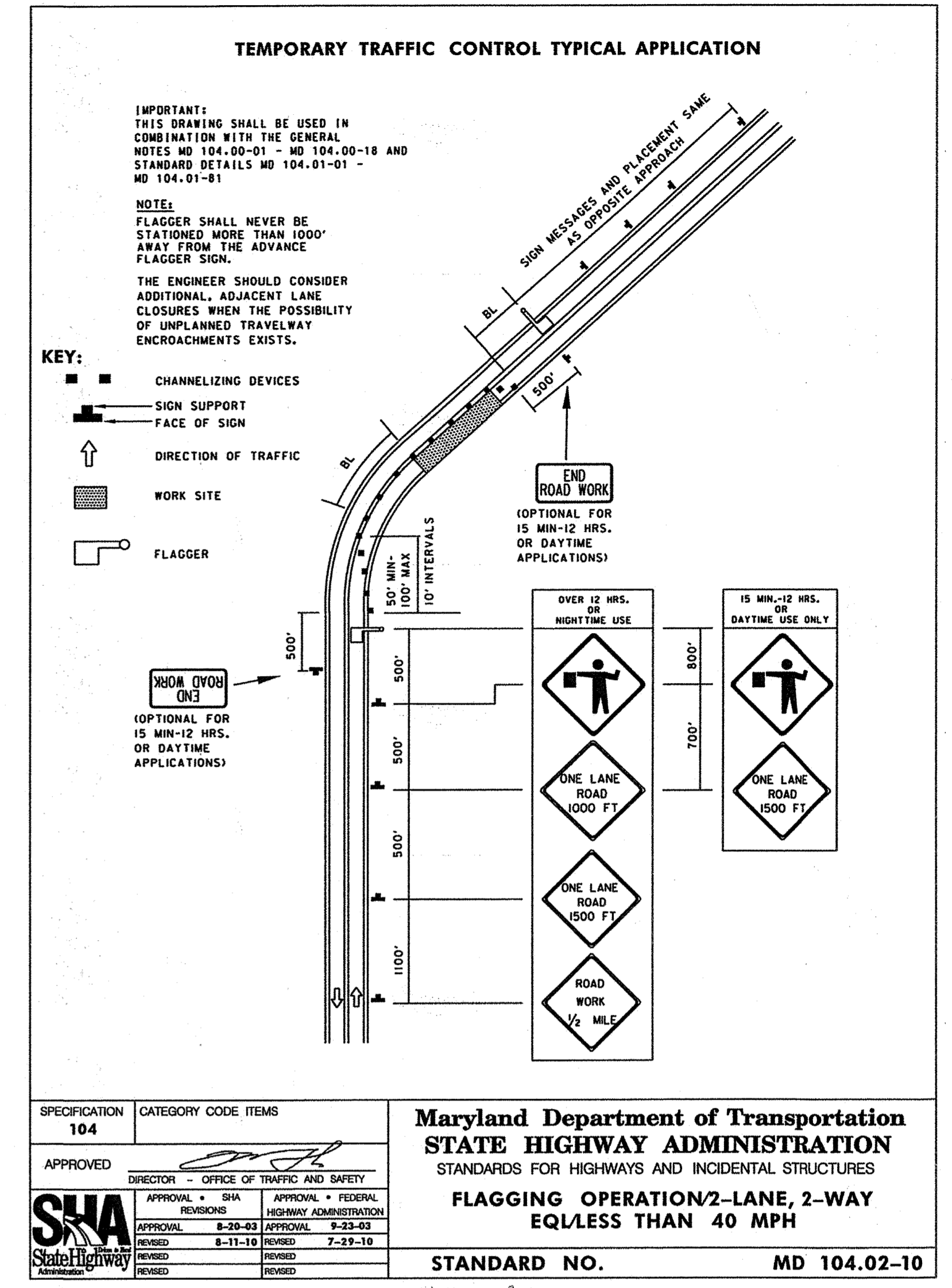
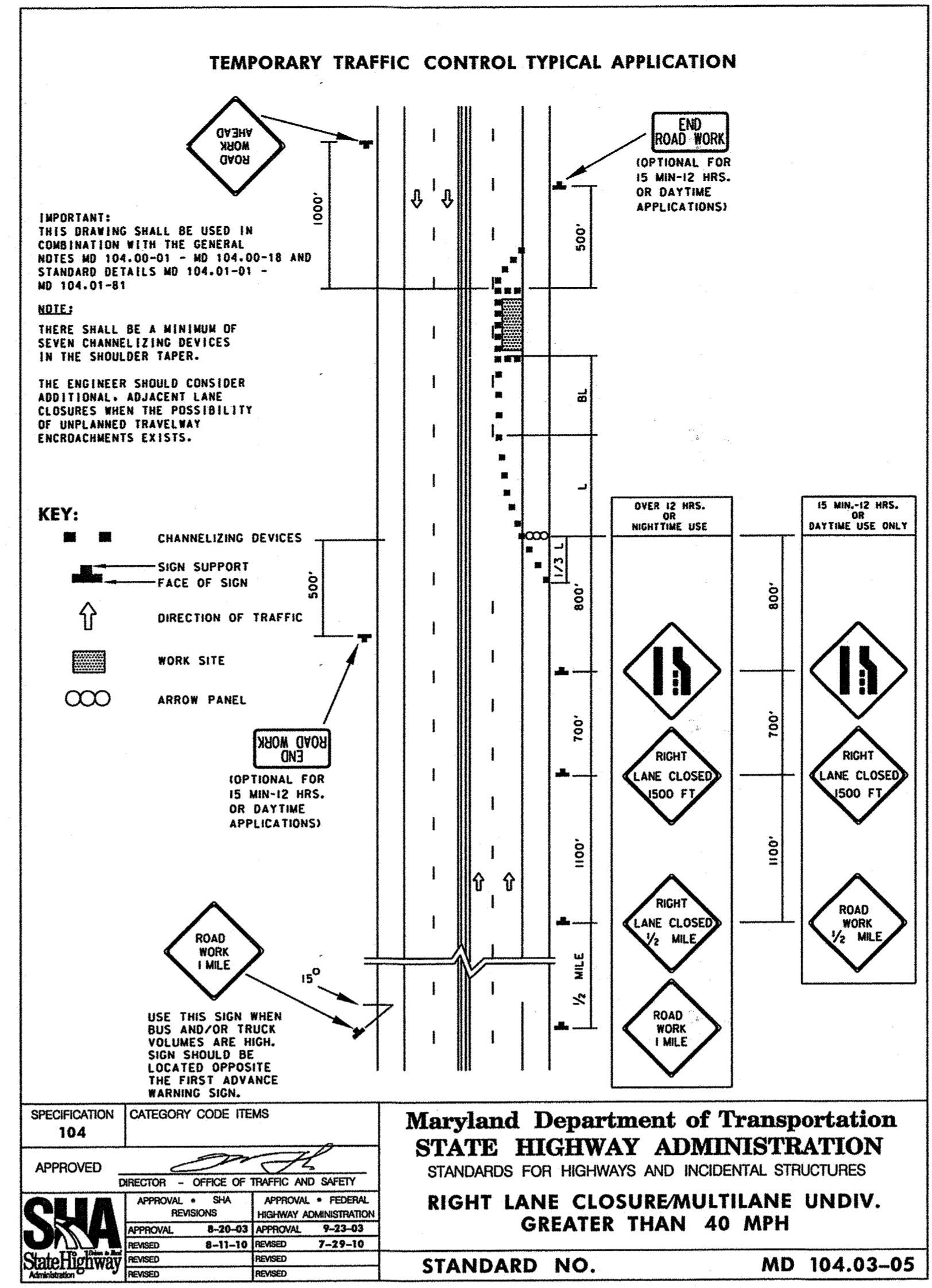
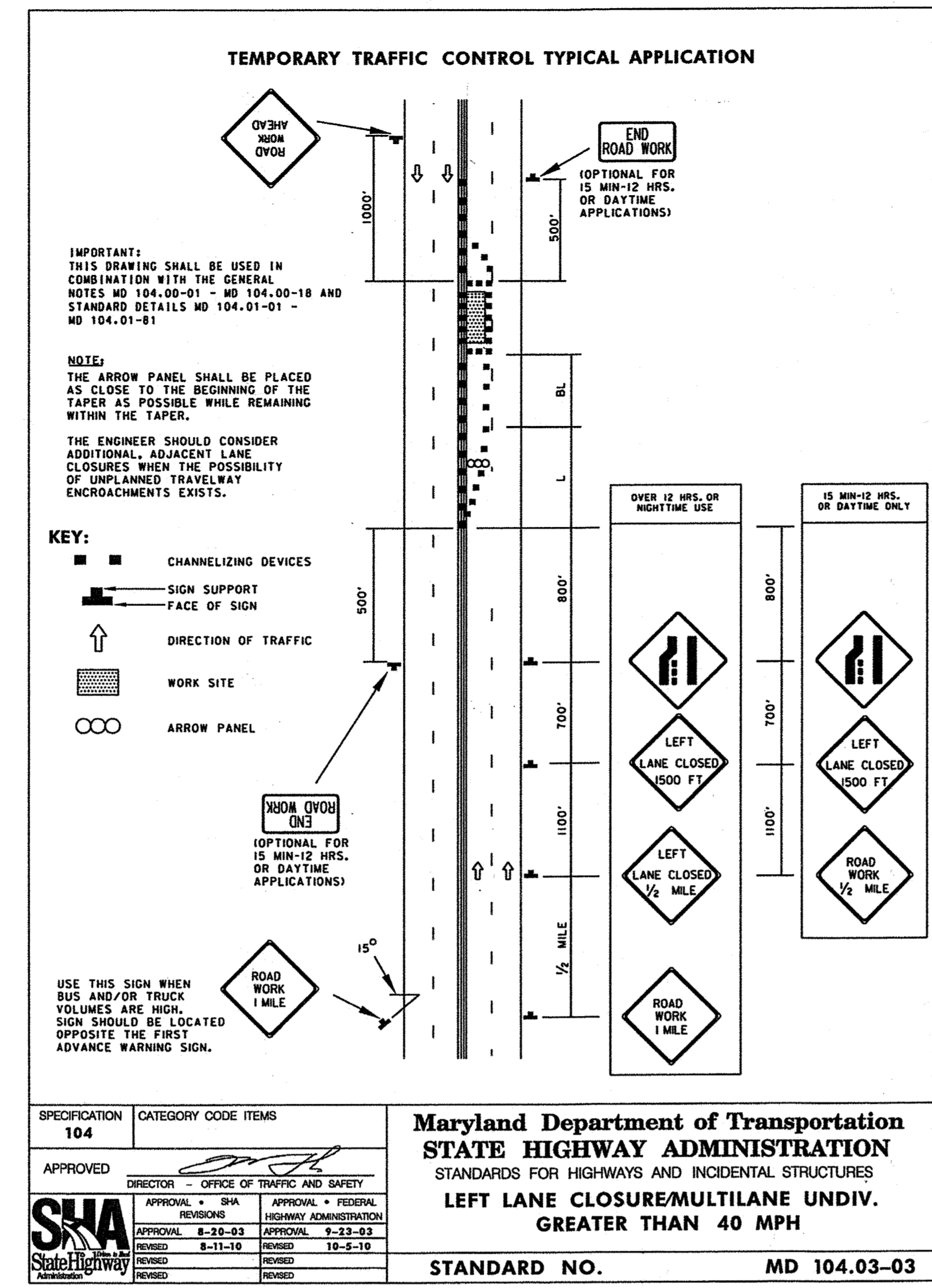
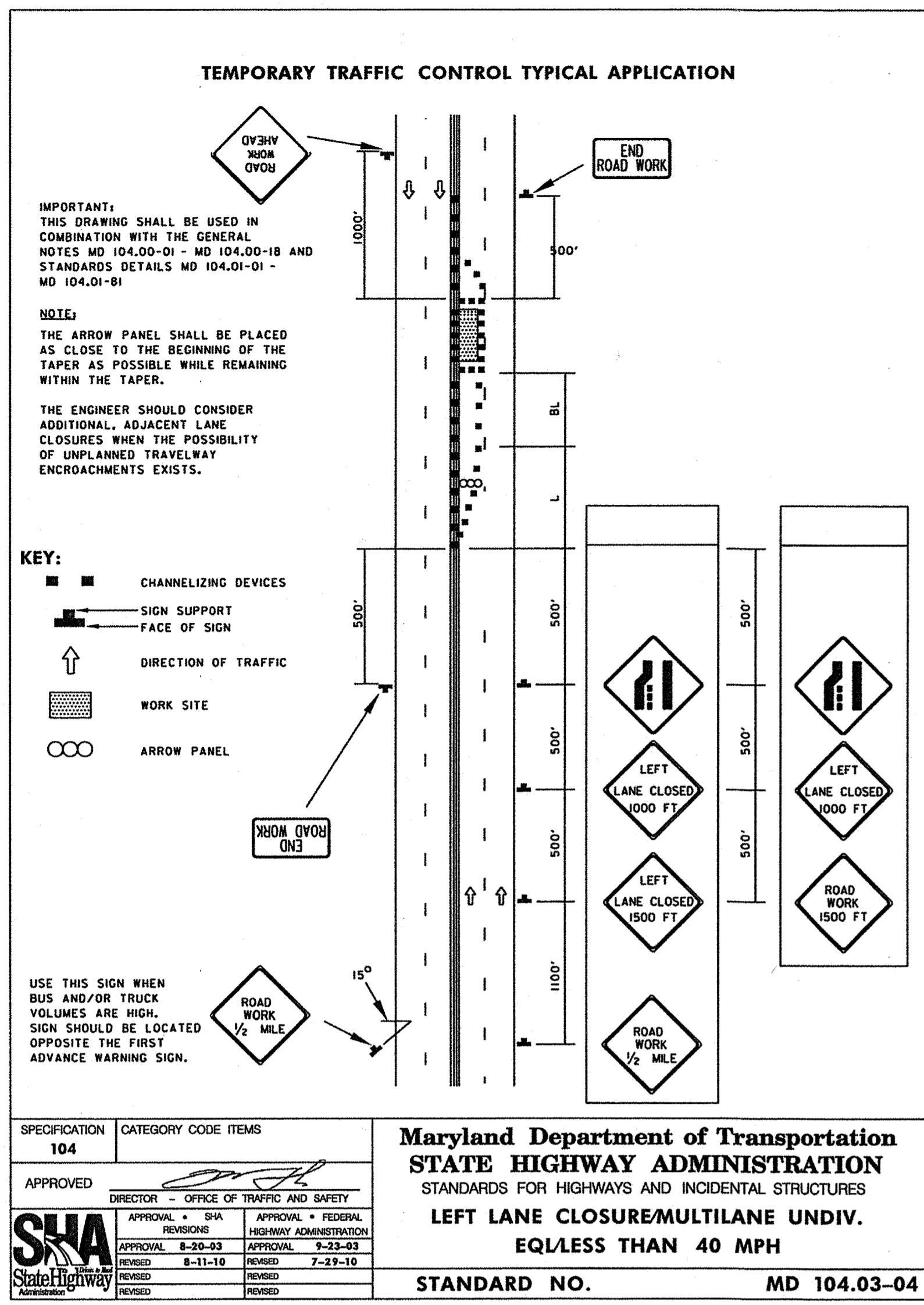
David P. ... 8/23/18
HOWARD SOIL CONSERVATION DISTRICT DATE

- ### SEQUENCE OF CONSTRUCTION
- NOTIFY SEDIMENT CONTROL DIVISION 48 HOUR PRIOR TO START OF CONSTRUCTION
- OBTAIN GRADING PERMIT. ONGOING
 - DURING CONSTRUCTION AND ONCE UTILITIES ARE INSTALLED FOLLOW CONSTRUCTION NOTES ON SHEET 1. ONGOING
 - INSTALL INLET PROTECTIONS AS SHOWN ON THIS SHEET. 3 DAYS
 - INSTALL SEWER MAIN FROM EXISTING MANHOLE SMH 4 TO SMH 104 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104.03-05. 2 WEEKS
 - WITH SEWER MAIN INSTALLED UP TO THE R/W LINE, REMOVE TRAFFIC CONTROLS AND COMPLETE PATCH ROADWAY. 2 DAYS
 - INSTALL 8" WATER MAIN WATERLINE STATION 0+00 TO 8+85 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104.03-03. 2 WEEKS
 - REMOVE TRAFFIC CONTROLS AND COMPLETE PATCH ROADWAY. 2 DAYS
 - NOTIFY HOWARD COUNTY TO CLOSE EXISTING 16" VALVE AT ROUTE 1 AND DORSEY ROAD AND INSTALL 16" WATER MAIN WATERLINE STATION 0+00 TO 6+44 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104.03-04. 2 WEEKS
 - INSTALL 8" WATER MAIN FROM 16"x8" TEE TO R/W LINE WATERLINE STATION 0+67 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104.02-10. 2 DAYS
 - INSTALL FIRE HYDRANT FROM 16"x6" TEE WATERLINE STATION 2+72 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104.03-05. 2 DAYS
 - PLACE ALL WATER MAINS INTO SERVICE. ONGOING
 - PATCH, REPLACE AND RESURFACE ALONG DORSEY ROAD WAS REQUIRED. ONGOING
 - WITH INSPECTORS APPROVAL REMOVE ALL INLET PROTECTION. 1 DAY



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 8-22-18	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8-23-18	BENCHMARK ENGINEERS, LAND SURVEYORS & PLANNERS 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELICOTT CITY, MARYLAND 21043 (P) 410-485-8105 (F) 410-485-8644 WWW.BE-CIVILENGINEERING.COM	DES: JCO DRAFT: JCO CHK: CAM DATE: AUGUST 2018	SEDIMENT AND EROSION CONTROL PLAN 600 SCALE MAP # 37 & 43 BLOCK: 23 & 05	CORRIDOR SQUARE PARCEL A FIRST ELECTION DISTRICT CONTRACT NO. 14-5029-D	SCALE: AS SHOWN SHEET NO. 4 OF 5
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J:\2695 Gunter Properties\dwg\6000.dwg, 8/16/2018 2:01:03 PM, cogle



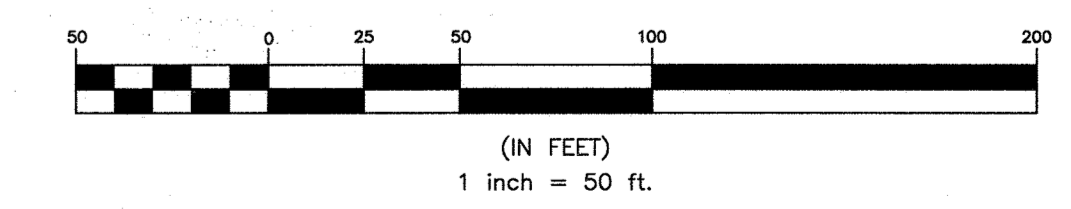
16" WATER MAIN
WATER LINE STATION 0+00 TO 6+44

8" WATER MAIN
WATER LINE STATION
0+00 TO 8+85

8" SEWER MAIN UP TO R/W LINE, 8" WATER MAIN FROM
8" TEE WATERLINE STATION 1+54 TO R/W LINE, FH TEE
OFF 8" WATER MAIN WATERLINE STATION 1+94 TO FIRE
HYDRANT AND FROM FH TEE OFF 16" WATER MAIN
WATERLINE STATION 2+72 TO FIRE HYDRANT

8" WATER MAIN 'B'
FROM 16"x8" TEE TO R/W LINE 8" WATER
LINE STATION 0+67

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. 22390, Expiration Date: 6-30-2019.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 8-22-18	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8-23-18	BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-485-8100 (F) 410-485-8844 WWW.BE-CO-ENGINEERING.COM		DES: JCO DRAFT: JCO CHK: CAM DATE: AUGUST 2018	BY: NO. REVISIONS DATE	MAINTENANCE OF TRAFFIC PLAN PLAN 600 SCALE MAP # 37 & 43 BLOCK: 23 & 05	CORRIDOR SQUARE PARCEL A FIRST ELECTION DISTRICT CONTRACT NO. 14-5029-D	SCALE: AS SHOWN SHEET NO. 5 OF 5
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