		QUANTITIE	10	· .
ITEM	ESTIMATED	·.		
I I E I I	ESTIMATED	QUANTITIES	TYPE	SUPPLIER
"W; C900 PVC; DR-18	867 L.F.	867 L.F		Notional Pap
"W; C900 PVC; DR-18	54 L.F.	54 L.F.		National P& P
6" X8" TAPPING SLEEVE	2 EACH	2 FACH		Mueller Co.
8"X8" TEE	1 EACH	1 EACH		Mueller Co.
Ø"X6" F.H. TEE	4 EACH	3		Mueller Co.
8" TAPPING VALVE	2 EACH	2		Mueller Co.
8" VALVE	2 EACH	2		Mueller Co.
6" VALVE	3 EACH	3		Mueller Co.
1/0 H.B.	3 EACH	3		National Pap
1/16 H.B.	1 EACH	<b>I</b>		National P# R
6" BLIND FLANGE	1 EACH	1 (		JCM
8" PLUG & BUTTRESS	1 EACH	1		Mueller Co.
FIRE HYDRANT	3 EACH	3		Mueller Co.
CONTINUITY TEST STATION	3 EACH	3		FUS foundry
	U	RBAN		
NAME OF UTILITY C	ONTRACTOR: L	ARBAN ZINK		

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #42R1 - HORIZONTAL - (NAD '83) (LOCATED ALONG THE NORTH SIDE OF GUILFORD ROAD, WEST OF SASSAFRAS COURT. APPROX. 39.8' WEST OF LIGHT POLE AND 3.1' BEHIND BACK OF CURB) N 547.820.225

E 1.351.171.619 ELEVATION = 375.811 - VERTICAL - (NAVO '88)

N 546,946,791

B.M.#2 - HOWARD COUNTY CONTROL STATION #42R2 - HORIZONTAL - (NAD '83) (LOCATED ALONG THE SOUTH SIDE OF GUILFORD ROAD, ACROSS FROM BLUE SEA DR. & APPROX. 63.8' EAST OF C&P #8.)

E 1,352,118.600 ELEVATION = 331.463 - VERTICAL - (NAVD '88)

### SEQUENCE OF CONSTRUCTION

OBTAIN GRADING PERMIT 2.NOTIFY MISS UTILITY (1-800-257-7777) TWO (2) FULL BUSINESS DAYS BEFORE STARTING WORK, NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1855) 24 HOURS BEFORE STARTING WORK AND NOTIFY THE BALTIMORE GAS AND ELECTRIC COMPANY (410-291-5739) FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

. INSTALL ALL PERIMETER CONTROLS ASSOCIATED WITH PHASE 1 WORK. INSTALL SCE WITH WASH RACK. INSTALL PERIMETER SUPER SILT FENCE, TREE PROTECTION FENCE AND PERIMETER CONSTRUCTION FENCING. (2 DAYS)

I. BEGIN DEMOLITION OF EXISTING FRONT BUILDING SECTION (EAST SIDE OF BUILDING). (4 MONTHS) 5 DEMOLISH EXISTING CURB AND GUTTER AT EXISTING BUS LOOP. ROUGH GRADE FRONT OF BUILDING TO ESTABLISH LAY DOWN AREA FOR ALL TRADES. EXISTING PAVING MAY REMAIN.INSTALL TEMPORARY MODULAR CLASSROOM BUILDING. (3 MONTHS) 6.INSTALL WATER LINES UP TO CONNECTION TO EXISTING FIRE HYDRANT (WEST SIDE) AND INSTALL WATER LINES ON THE EAST

7.DEMO CURB AND GUTTER AND PAVING AT EXISTING PARKING AREA AND SERVICE AREA. INSTALL STORM DRAINS AND STRUCTURES AND PRIVATE SEWER AND GRADE PHASE 1 BUILDING AREA. INSTALL TEMPORARY BARRICADES ALONG TEMPORARY BUS LOOP. BEGIN CONSTRUCTION OF SCHOOL BUILDING ADDITION AND RENOVATION - MULTIPLE PHASES. (18 MONTHS) 6. CONSTRUCT STORMWATER MANAGEMENT FACILITIES AND REAR ADDITION TO BUILDING AND REAR SITE ACCESS AND RETAINING WALL. (6 MONTHS)

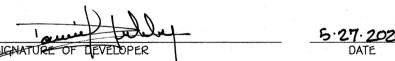
9.INSTALL REMAINING WATER MAIN AND FIRE HYDRANT (WEST REAR CORNER), INSTALL REMAINING STORM DRAIN AND FILTERRA STRUCTURE AND COMPLETE REMAINING CURB AND GUTTER, BASE AND TOP PAVING, SIDEWALKS AND INSTALL ALL PLANTINGS AND LANDSCAPING AT FRONT OF SCHOOL BUILDING. (1 MONTH)

10. FINALIZE STABILIZATION THROUGHOUT SITE. REMOVE ALL SEDIMENT CONTROL MEASURES WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING. (1 WEEK)

THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON ALL SEDIMENT CONTROL DEVICES AND PRACTICES ON A DAILY BASIS AND IMMEDIATELY AFTER EACH RAINFALL.

### 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."



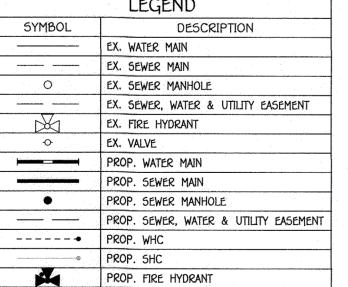
ENGINEER'S CERTIFICATION " I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE SITE DEVELOPMENT PLAN, 5DP-96-18 (REDLINE).

5DP-96-18 (REDLINE)

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

	LEGEND		
SYMBOL	DESCRIPTION		
	EX. WATER MAIN		
	EX. SEWER MAIN		
0	EX. SEWER MANHOLE		
	EX. SEWER, WATER & UTILITY EASEMENT		
	EX. FIRE HYDRANT		
0	EX. VALVE		
	PROP. WATER MAIN		
	PROP. SEWER MAIN		
. •	PROP. SEWER MANHOLE		
<del></del> -	PROP. SEWER, WATER & UTILITY EASEMENT		
	PROP. WHC		
	PROP. SHC		
<b>*</b>	PROP. FIRE HYDRANT		
0	PROP. VALVE		



# LOCATION MAP NO. OF WATER HOUSE CONNECTIONS: 5DP-96-18 (REDLINE) N/A NO. OF SEWER HOUSE CONNECTIONS: LITTLE PATUXENT LITTLE PATUXENT WASTEWATER RECLAMATION PLANT; SAVAGE MARYLAND CONTRACT NO. 44-5104-D HAMMOND HIGH SCHOOL BUILDING ADDITIONS

ADC MAP: 33 BLOCK: A7 & A8

WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

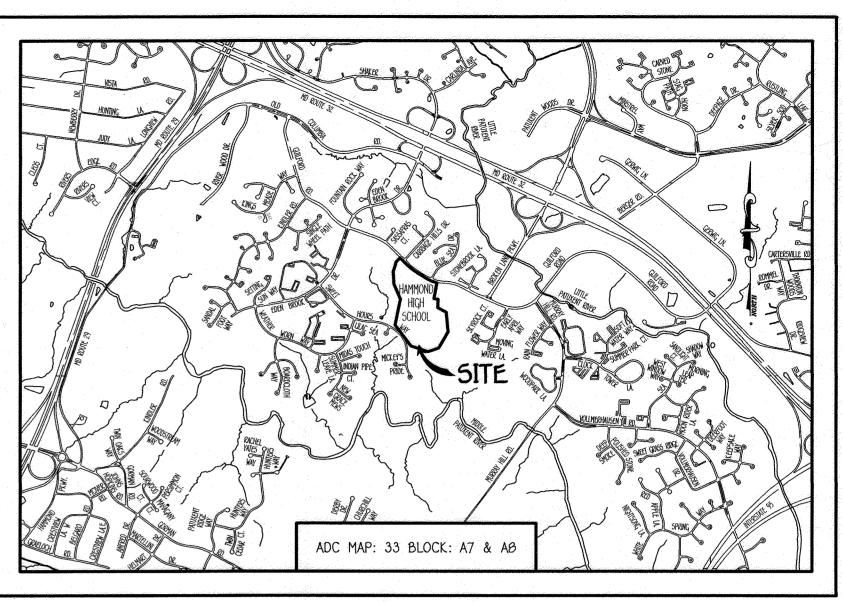
CONSTRUCTION MANAGER

OWNER / DEVELOPER HOWARD COUNTY PUBLIC SCHOOL SYSTEM 9020 MENDENHALL COURT COLUMBIA, MARYLAND 21045 410-313-6805 Attn: MR. DAN LUBELEY ACTING DIRECTOR, 5CHOOL PLANNING & CONSTRUCTION

N 548,400

N 544,400

PLAN REFERENCE NUMBERS:



1. 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 OCTOBER, 2017 & AUGUST, 2018 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. 42RI & NO. 42R2. ALL VERTICAL CONTROLS ARE BASED ON NAVO '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.

4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS 5. 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

6. 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

6. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE

HAVE A COPY OF VOLUME IV ON THE JOB SITE 7. 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 JTILITIES 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.

STARTING WORK SHOWN ON THESE PLANS: 

9 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. 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL

11. 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

## PART B: WATER MAIN GENERAL NOTES 1. ALL WATER MAINS SHALL BE AWWA C900 PVC; DR-18.

2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED. 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.

5. 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. 8. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE

PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED. 9. 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. 10. 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 THI

SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE. 11. 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

PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1 1-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWAY C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEED PVC HIGH DEFLECTION (HD)

FIVE 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 FITTINGS (IPEX) BLUE BRUTE DR-18 OR EQUAL.

12. WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA 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

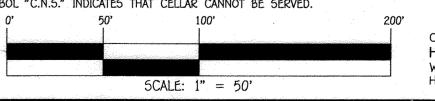
CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL. 13. TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING; STD. DET. W-3.28.

## PART C: SEWER MAIN GENERAL NOTES 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED. 2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

. FORCE MAINS SHALL BE D.I.P. ONLY. 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS

OTHERWISE NOTED ON THE DRAWINGS. 6. HOUSE(5) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



CONTRACT NO. 44-5104-D HAMMOND HIGH 5CHOOL WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

548,400

N 544,400

WATER ZONE: \_\_\_\_

TYPE OF BUILDING:

SEWER SHED: \_

TREATMENT PLANT:

NUMBER OF PARCELS:

WATER TEST GRADIENT; 8"W: 827"

WATER TEST PRESSURE; 8"W: 218 psi

EXISTING HIGH SCHOOL (BUILDING ADDITIONS)

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. FLUCOTT CITY, MARYLAND 21042

HEREBY CERTIFY THAT THESE DOCUMENTS WERE



CONTROL STATION

EX. 16"W; 629-W

CONTROL STATION

HAMMOND

5CH00L

16"W; 44-1578-D-

EX. 16"W; 628-W-

HAMMOND HIGH SCHOOL

WATER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

BUILDING ADDITIONS

CONTRACT NO. 44-5104-D

, and and a	DESIGNED BY : D.T.A.					
	DRAWN BY : D.T.A.					
	CHECKED BY : P.W.K.					
	DATE :	WRA	Δ	As Built "Quantities"	1/4/24	6
<u>~</u>	MAY, 2020	ВΥ	NO.	REVISION	DATE	FILE

WATER MAIN EXTENSIONS TITLE SHEET

F.C.C. WORK ORDER NO. \_\_\_\_10016

## HAMMOND HIGH SCHOOL

WATER MAIN EXTENSIONS CONTRACT NO. 44-5104-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

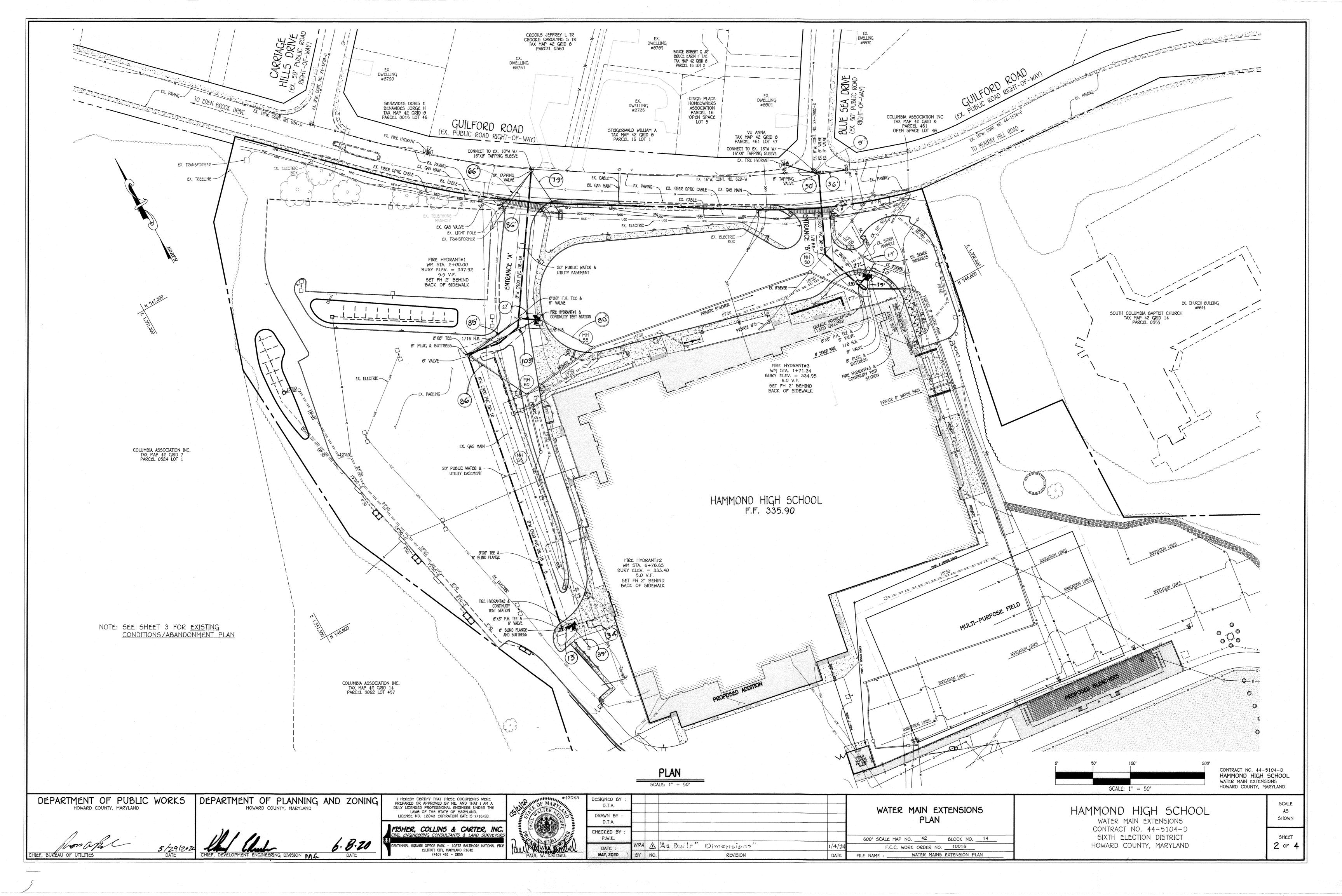
SHEET

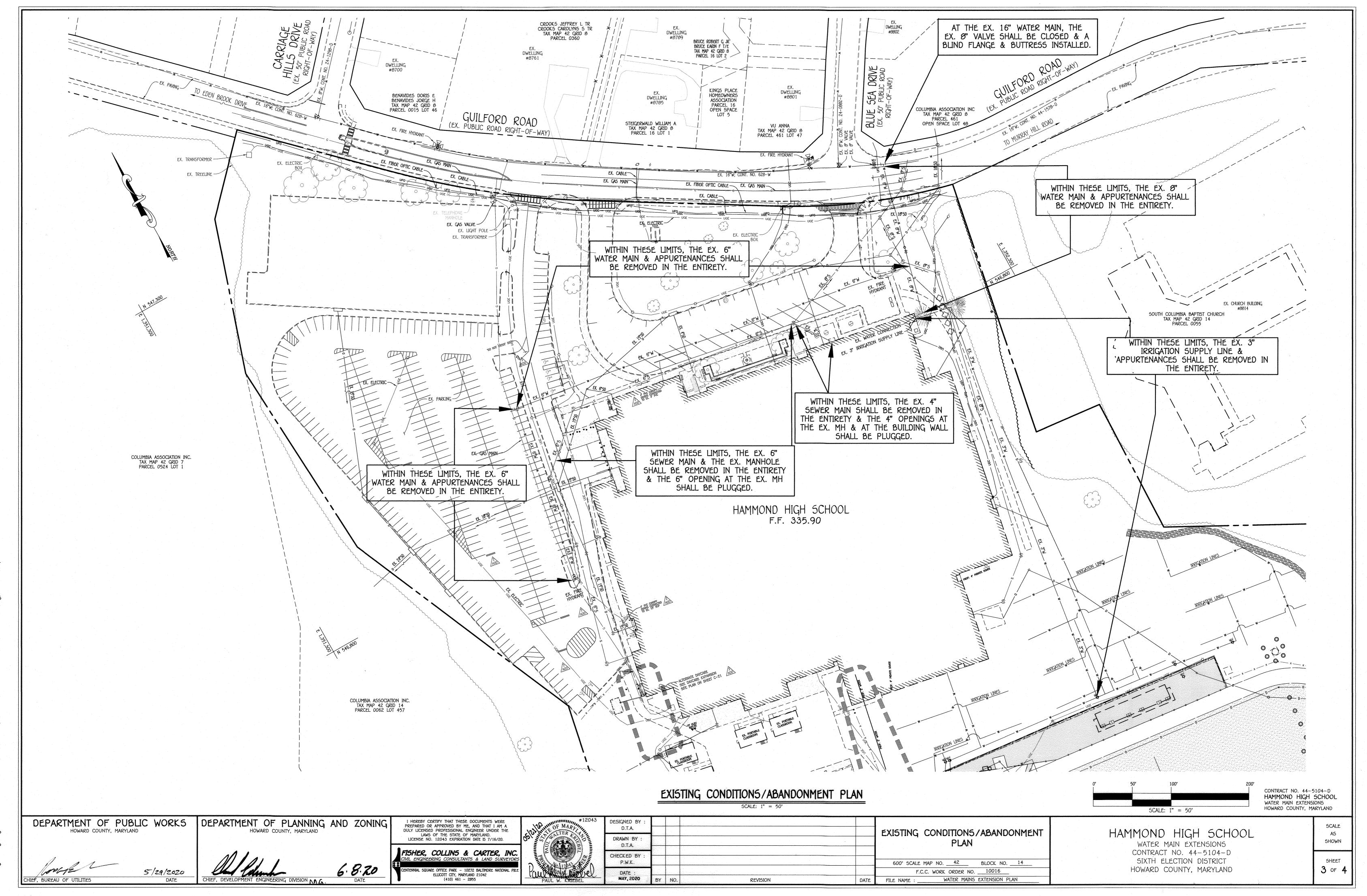
**SCALE** 

1 of 4

**SHOWN** 

WATER MAINS EXTENSION PLAN





I:\2010\10016\Engineering\Dwgs\10016 Sewer & Water Contract No. 44-5104-D\Finals\10016 Sewer &

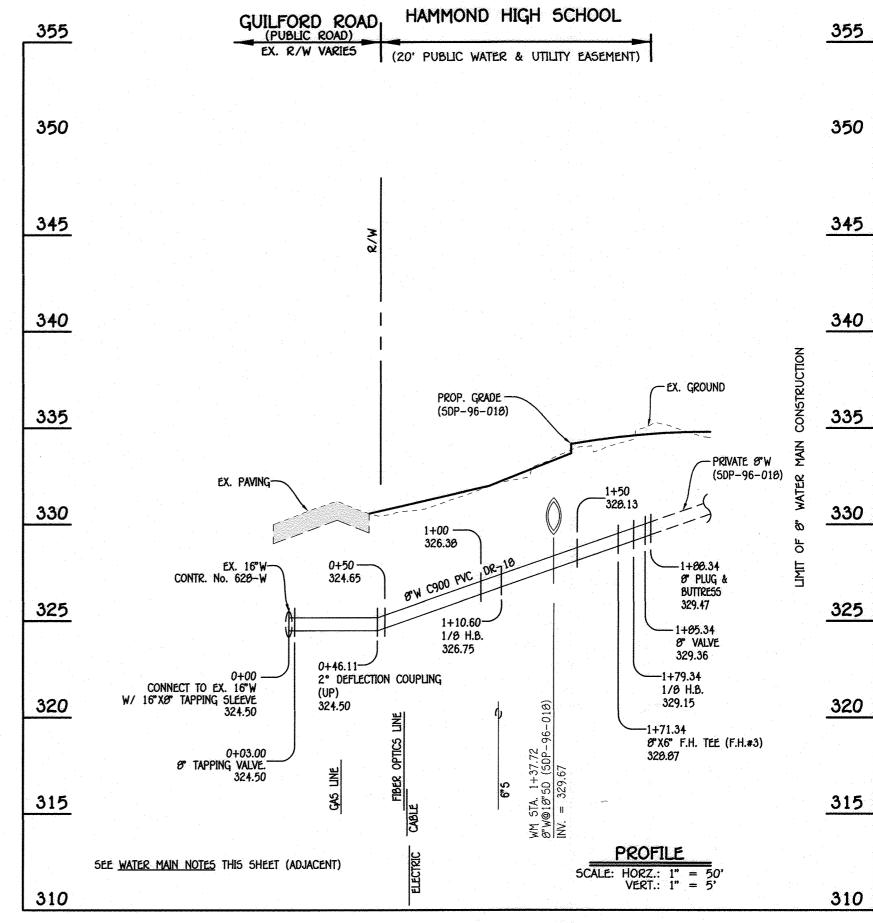
	WATER MAIN TABUL	LATION CHA	\RT
W.M. STA.	APPURTENANCE	NORTHING	EASTING
	8" WATER MAIN: ENTR	SANCE 'A'	
0+00.00	16"X9" TAPPING SLEEVE	547,210.03	1,351,044.76
0+03.00	8" TAPPING VALVE	547,207.55	1,351,843.08
1+33.31	1° DEFLECTION COUPLING (DOWN)	547,099.80	1,351,769.78
2+00.00	8"X6" F.H. TEE (F.H.#1)	547,044.66	1,351,732.27
2+12.27	1/8 H.B.	547,034.52	1,351,725.36
2+45.39	1/16 H.B.	547,028.57	1,351,692.78
2+89.65	8"X8" TEE	547,036.48	1,351,649.24
2+92.65	8" VALVE	547,033.53	1,351,648.70
4+30.00	1° DEFLECTION COUPLING (UP)	546,898.39	1,351,624.16
5+88.64	8"x6" TEE	546,742.31	1,351,595.81
6+78.63	8"X6" F.H. TEE (F.H.#2)	546,653.76	1,351,579.73

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. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.

4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



## 8" WATER MAIN: ENTRANCE 'B'

	WATER MAIN TABUL	ATION CHA	\RT
W.M. 5TA.	APPURTENANCE	NORTHING	EASTING
	8" WATER MAIN: ENTR	ANCE 'B'	
0+00.00	16"X8" TAPPING SLEEVE	547,017.65	1,352,177.03
0+03.00	8" TAPPING VALVE	547,014.92	1,352,176.57
0+46.11	2° DEFLECTION COUPLING (UP)	546,975.76	1,352,150.5
1+10.60	1/0 H.B.	546,917.17	1,352,131.60
1+71.34	8"X6" F.H. TEE (F.H.#3)	546,059.45	1,352,150.5
1+79.34	1/8 H.B.	546,051.05	1,352,153.0
1+05.34	8" VALVE	546,849.12	1,352,150.3
1+88.34	8" PLUG & BUTTRESS	546,847.76	1,352,161.0

BLOCK NO. 14

5CALE: 1" = 50"

CONTRACT NO. 44-5104-D HAMMOND HIGH SCHOOL WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

5/29/2020

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 7/16/20.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS al square office park – 10272 Baltimore national pike ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055

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Haw	UTATON	AL DI	diel	
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	PAUL W	KRIE	BEL	

43	DESIGNED BY :					
	D.T.A.					WATER MAIN EXTENSIONS
	DRAWN BY : D.T.A.					PROFILES & CHARTS
	CHECKED BY :					
	P.W.K.					600' SCALE MAP NO. 42 BLOCK NO. 14
)	DATE :					F.C.C. WORK ORDER NO. 10016
	MAY, 2020	BY	NO.	REVISION	DATE	FILE NAME : WATER MAINS EXTENSION PLAN

HAMMOND HIGH 5CHOOL

WATER MAIN EXTENSIONS CONTRACT NO. 44-5104-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 4 of 4

**SCALE** 

SHOWN