			AS-BUILT	
ITEM	estimated	QUANTITIES	TYPE	SUPPLIER
4"9	674 L.F.			· · ·
Ø"5; PVC	1,751 L.F.			
Ø" PLUG	7 EACH			
MANHOLES	15 EACH			· · · · · · · · · · · · · · · · · · ·
12"W	1,907 L.F.			
8"W	461 LF.			
6 * ₩	121 LF.			
4° DEFLECTION COUPLING	2 each			
1/8 H.B.	4 EACH			
1/16 H.B.	3 EACH			
1/32 H.B.	G EACH			
12"X12" TAPPING SLEEVE	1 EACH			
12" TAPPING VALVE	1 EACH			
12"X12" CR055	L EACH			
12"X8" TEE	6 EACH			
12" X6" TEE	4 EACH			
Ø"X6" TEE	2 EACH			
12" VALVE	7 EACH			
8" VALVE	7 EACH			
6" VALVE	6 EACH			
12" PLUG	2 EACH			
Ø PLUG	7 EACH			
CONTINUITY TEST STATION	6 EACH			
FIRE HYDRANT	6 EACH			
· · · · · · · · · · · · · · · · · · ·				
	1	I		

BENCHMARK INFORMATION B.M.#1 - HOWARD COUNTY CONTROL STATION #38GA - HORIZONTAL - NAD '83)

(LOCATED ALONG RAILROAD AVENUE, JUST SOUTH OF RYAN AVENUE. APPROX. 22.6' NORTH FROM THE CENTER LINE OF RAILROAD AVENUE. N 555.897.3373 E 1.390.132.0933

ELEVATION = 80.783 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #43CB - HORIZONTAL - (NAD '83) (LOCATED ALONG THE SOUTHSIDE OF DORSEY ROAD, APPROX. 2.2' OFF THE EDGE OF PAVING. APPROX. 46.7' EAST OF POWER POLE NO. 19) N 552,084.2466 E 1,382,282.4190

ELEVATION = 144.391 - VERTICAL - (NAVD '88)

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.

N. Kriebel; FOR: PRESTON · SCHEFFENACKER <u>05-11-1</u>2 SIGNATURE OF DEVELOPER PROPERTIES

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."

05/11/12

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 ROAD CONSTRUCTION PLANS, F-12-026. Paul W. KRiebel; FOR: PRESTON · SCHEFFENACKER PROPERTIES 05-11-12

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

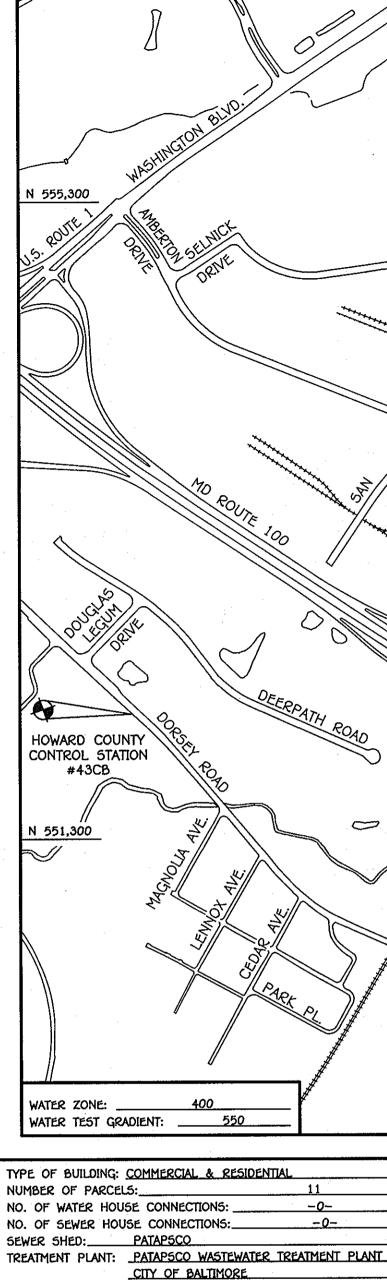
5/24/12

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

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BURFAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND



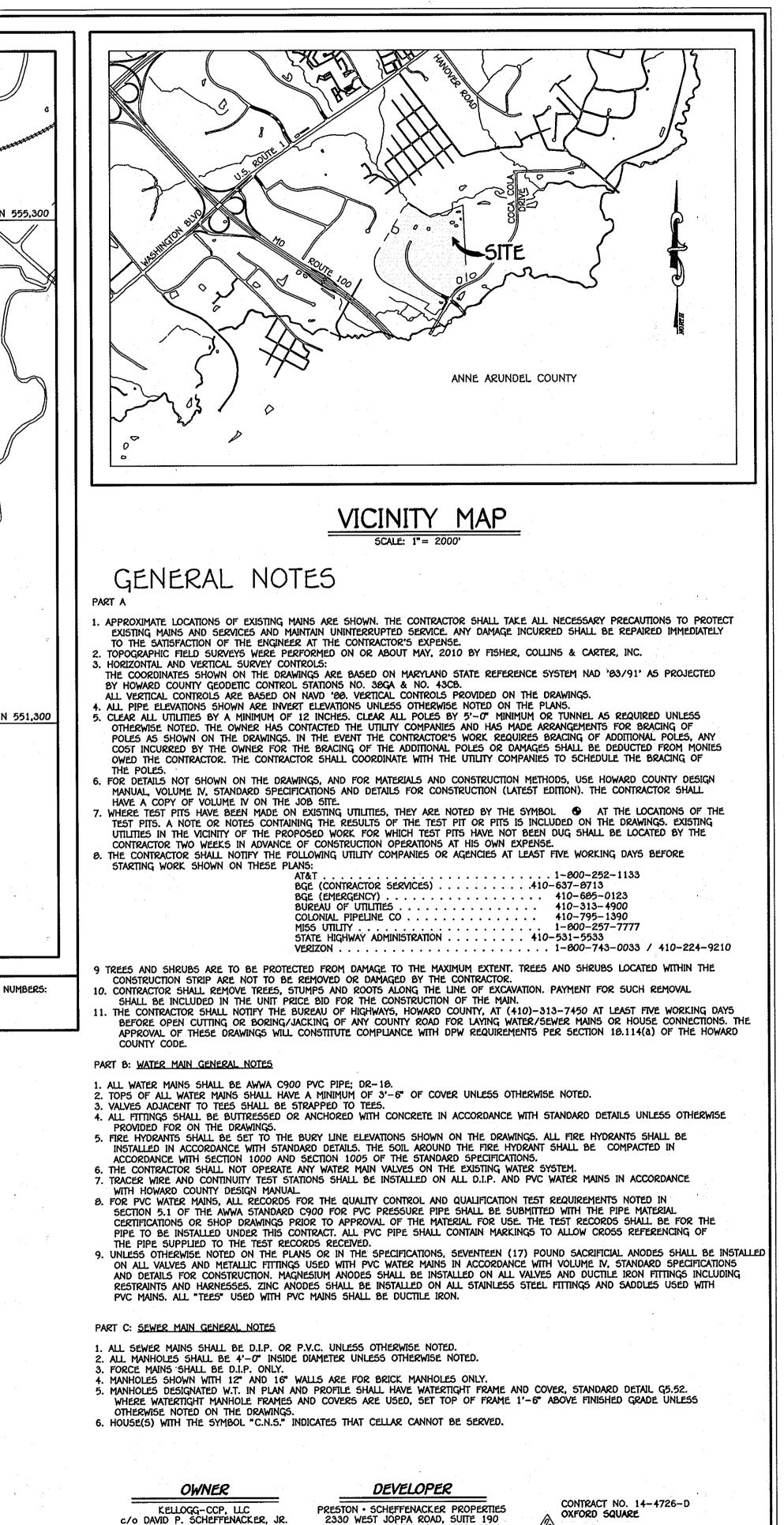
FISHER, COLLINS &

		DUDON AVE.	NY NY SKIPTON DRIVE
0			HOWARD COUNTY CONTROL STATION #38GA HI TECH ROAD
SANTA BARBARA ROA	TYSELACE I I'M AVE IT	DRIVE	
	OPEN SPACE	D - D - D - D - D - D - D - D - D - D -	HOWARD COUNTY
the second secon	PARCEL 'G' PARCEL 'G' PARCEL 'G' PARCEL 'G' PARCEL 'F' PARCEL 'F' PARCEL 'F'	PARCELS 'C' THRU	'L' & 1 & 2 AIN EXTENSIONS
	PARCEL 'J'	-0.5. LOT 2	
		0 EX. 12"W; CONT. NO. 14-3 EX. 12"W; CONT. NO. 14-3	0342-D 707-D
		EX. 30"5; CONT. NO. 291-5	
	٦A	NNE ARUNDEL COUI	NORTH
	۵۲ ۲۵۶ ۲۰۶ ۲۰۶ ۲۰۶ ۲۰۶ ۲۰۶	Е 1,389,200	
	LOCATION MAP SCALE: 1" = 600"		PLAN REFERENCE F-12-026
			· · · · · · · · · · · · · · · · · · ·

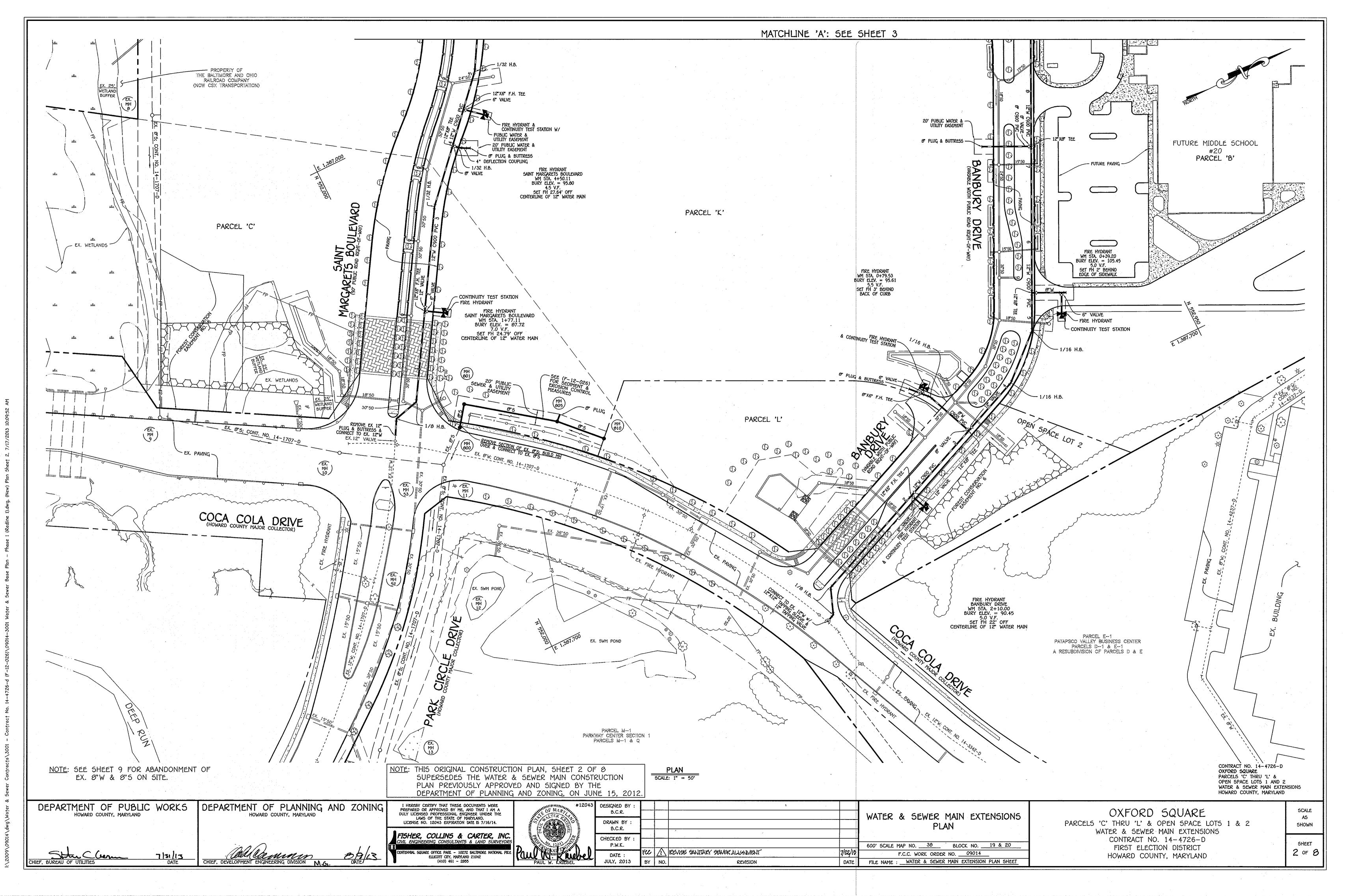
CONTRACT NO. 14-4726-D OXFORD SQUARE

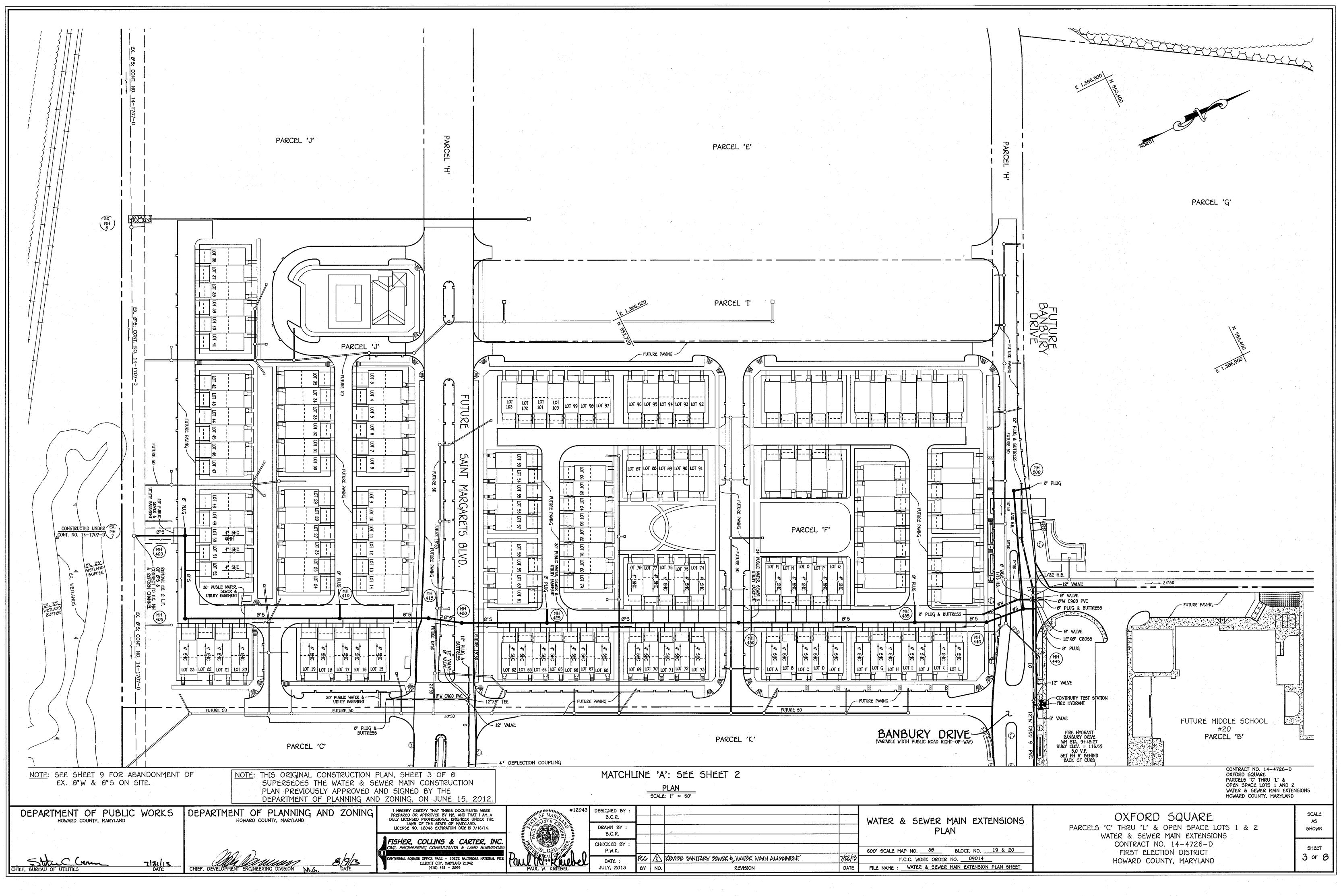
PARCELS 'C' THRU 'L' & OPEN SPACE LOTS 1 AND 2 WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY. MARYLAND

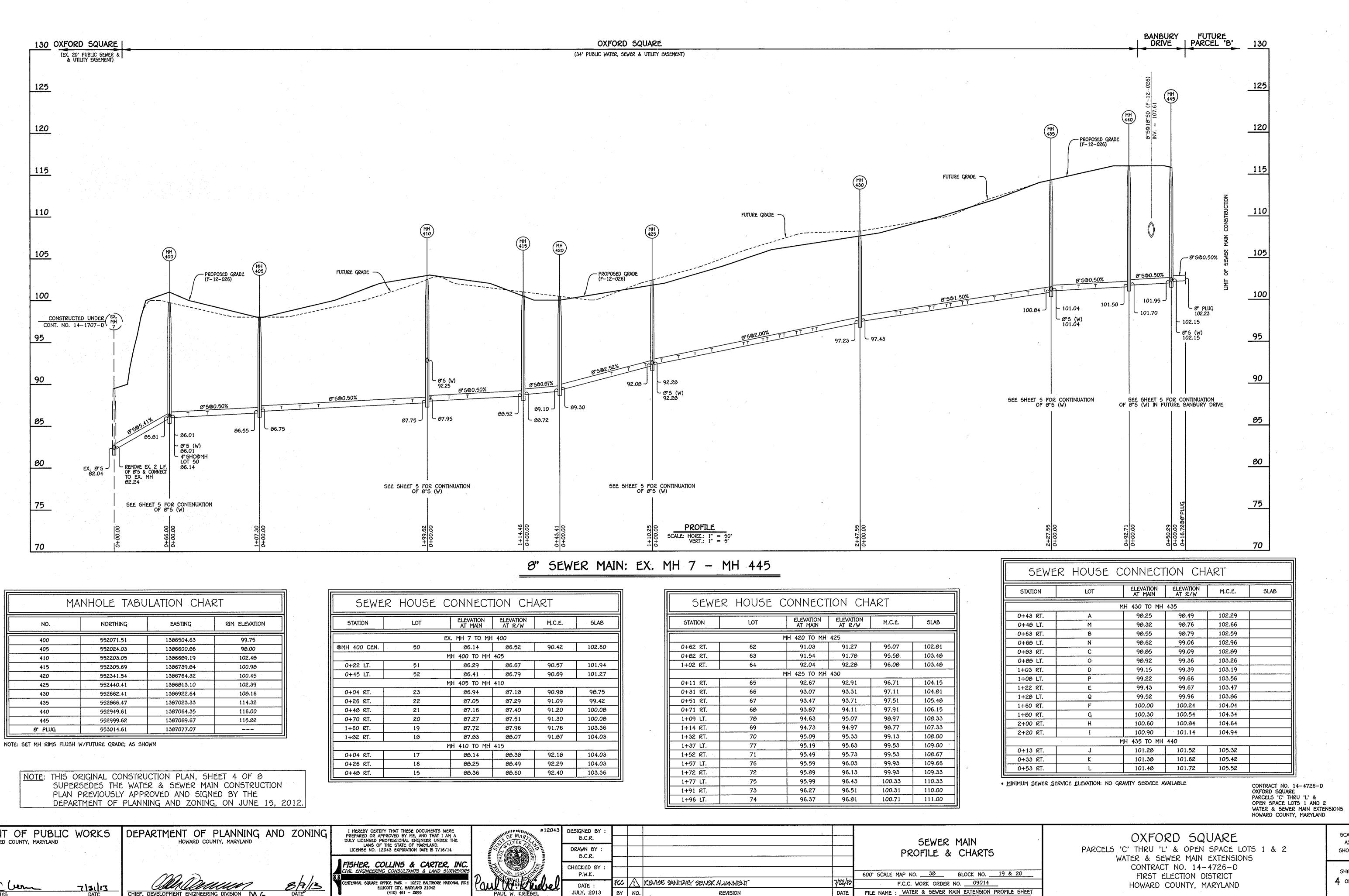
	VAND C			I, WIAIVILAIND		2330 WEST JO LUTHERVILLE, I	GING MEMBER LUTHERVILLE, MARYLAND 21093-4614 DPPA ROAD, SUITE 190 PHONE - 410-296-3800 MARYLAND 21093-4614 - 410-296-3800 WATER & SEWER MAIN EXTERNATION OF A SEWER MA	EN5ION5
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE IS 7/16/14,	SUSE OF MANNE #12043	DESIGNED BY : B.C.R. DRAWN BY : B.C.R.				WATER & SEWER MAIN EXTENSIONS TITLE SHEET	OXFORD SQUARE PARCELS 'C' THRU 'L' & OPEN SPACE LOTS 1 & 2	SCALE AS SHOWN
FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855	PAUL W. WELEBEL	CHECKED BY : P.W.K. DATE : MAY, 2012	1	B REVISE SHEET NUMBER B REVISE LOCATION MAP TO UPDATE PARCEL UNES NO. REVISE QUANTITY AMOUNTS FOR SANITARY SEWER & MANHOLE NO. REVISION	7/12/13 7/22/13 7/22/13 DATE	600' SCALE MAP NO. <u>30</u> BLOCK NO. <u>19 & 20</u> F.C.C. WORK ORDER NO. <u>09014</u> FILE NAME : <u>WATER & SEWER MAIN EXTENSION TITLE SHEET</u>	WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4726-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SHEÈTI 1 OF 8 2



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MA	NHOLE TABU	ILATION CHA	RT
NO.	NORTHING	EASTING	RIM ELEVATION
400	552071.51	1386504.63	99.75
405	552024.03	1386600.86	98.00
410	552203.05	1386689.19	102.48
415	552305.69	1386739.84	100.98
420	552341.54	1386764.32	100.45
425	552440.41	1386813.10	102.39
430	552662.41	1386922.64	108.16
435	552866.47	1387023.33	114.32
440	552949.61	1307064.35	116.00
445	552999.62	1387069.67	115.82
Ø" PLUG	553014.61	1387077.07	

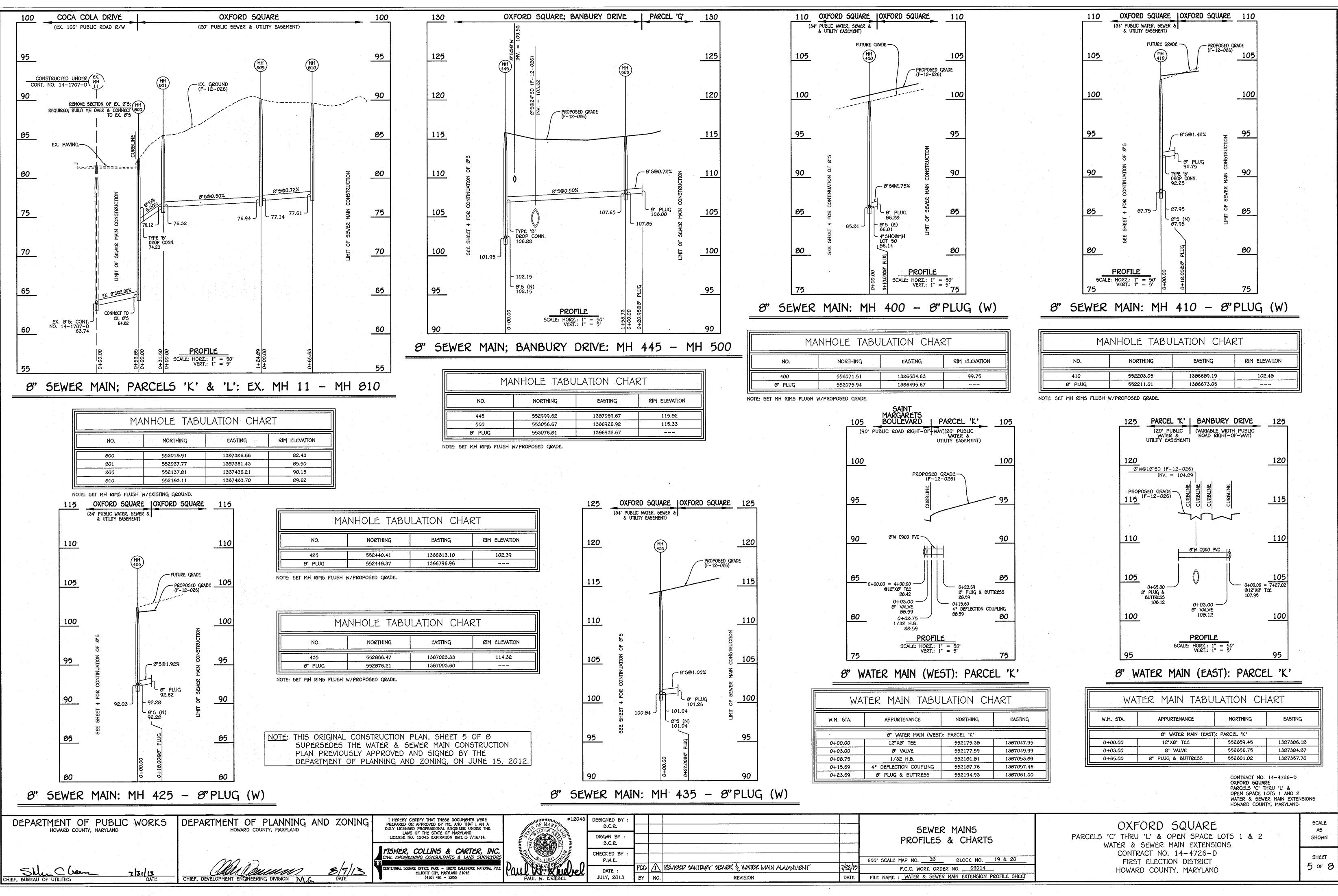
SEWE	R HOUSE (CONNECT	ION CH	ART	
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
	<u> </u>	EX. MH 7 TO MH	1 400		
@MH 400 CEN.	50	86.14	86.52	90.42	102.60
		MH 400 TO MH	405		
0+22 LT.	51	86.29	<i>Ø</i> 6.67	90.57	101.94
0+45 LT.	52	86.41	86.79	90.69	101.27
		MH 405 TO MH	410		
0+04 RT.	23	86.94	87.18	90.98	98.75
0+26 RT.	22	87.05	87.29	91.09	99.42
0+48 RT.	21	87.16	87.40	91.20	100.08
0+70 RT.	20	87.27	87.51	91.30	100.08
1+60 RT.	19	87.72	87.96	91.76	103.36
1+82 RT.	18	87.83	88.07	91.87	104.03
		MH 410 TO MH	415		
0+04 RT.	-17	88.14	88.38	92.18	104.03
0+26 RT.	16	88.25	88.49	92.29	104.03
0+48 RT.	15	<i>6</i> 8.36	88.60	92.40	103.36

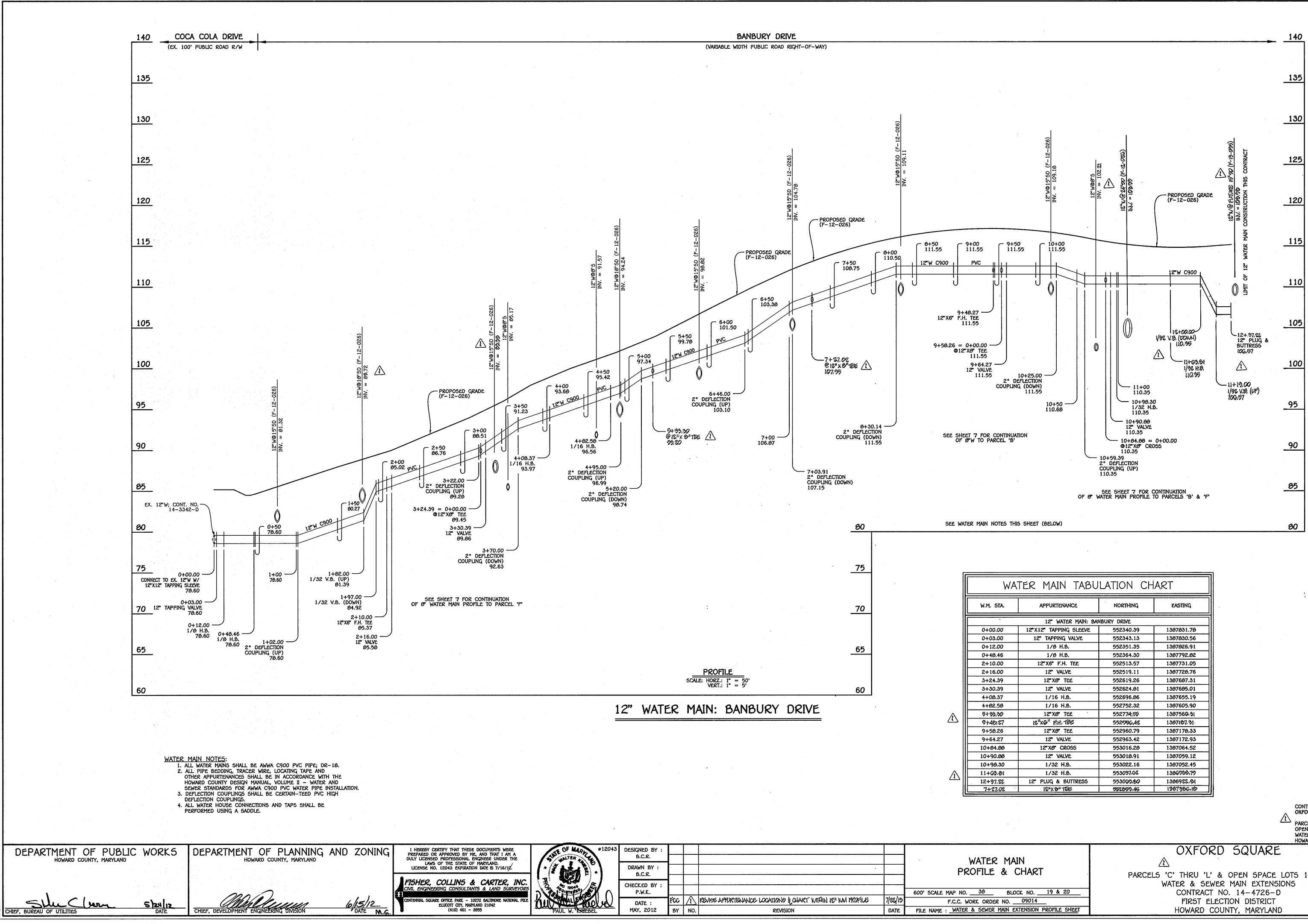
DEPARTMENT OF PUBLIC HOWARD COUNTY, MARYLAND	WORKS	DEPARTMENT OF PLANNING HOWARD COUNTY, MARYLAND	AND ZONING	I HEREBY CERTIFY THAT THESE O PREPARED OR APPROVED BY ME, DULY LICENSED PROFESSIONAL EN LAWS OF THE STATE OF I LICENSE NO. 12043 EXPIRATION
CHIEF, BUREAU OF UTILITIES	7 Jailis DATE	CHIEF, DEVELOPMENT ENGINEERING DIVISION M.(BA/B DATE	FISHER, COLLINS & CIVIL ENGINEERING CONSULTANTS CENTENNIAL SQUARE OFFICE PARK - 1022 ELLICOTT CITY, MARYLA (410) 461 - 22

1					
SEWE	R HOUSE	CONNECT	ION CH	ART	
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
P122		MH 420 TO MH	425		· · · ·
0+62 RT.	62	91.03	91.27	95.07	102.81
0+82 RT.	63	91.54	91.78	95.58	103.48
1+02 RT.	64	92.04	92.28	96.08	103.48
		MH 425 TO MH	430		
0+11 RT.	65	92.67	92.91	96.71	104.15
0+31 RT.	66	93.07	93.31	97.11	104.81
0+51 RT.	67	93.47	93.71	97.51	105.48
0+71 RT.	68	93.87	94.11	97.91	106.15
1+09 LT.	78	94.63	95.07	98.97	108.33
1+14 RT.	69	94.73	94.97	98.77	107.33
1+32 RT.	70	95.09	95.33	99.13	108.00
1+37 LT.	77	95.19	95.63	99.53	109.00
1+52 RT.	71	95.49	95.73	99.53	108.67
1+57 LT.	76	95.59	96.03	99.93	109.66
1+72 RT.	72	95.89	96.13	99.93	109.33
1+77 LT.	75	95.99	96.43	100.33	110.33
1+91 RT.	73	96.27	96.51	100.31	110.00
1+96 LT.	74	96.37	96.81	100.71	111.00

					•	
DOCUMENTS WERE AND THAT I AM A IGINEER UNDER THE	#12043	Designed by : b.c.r.			•	SEWER
MARYLAND. DATE 15 7/16/14.		DRAWN BY : B.C.R.		······································		PROFILE 8
CARTER, INC. 5 & LAND SURVEYORS		CHECKED BY :	·	· · · · · · · · · · · · · · · · · · ·		600' SCALE MAP NO. <u>38</u>
72 BALTIMORE NATIONAL PIKE ND 21042		P.W.K. DATE :	FCC A	KEVIGE GANITARY GEWER ALLANMENT	7/12/13	F.C.C. WORK ORDER
255	PAUL W. KRIEBEL	JULY, 2013	BY NO	. REVISION	DATE	FILE NAME : WATER & SEWER

SCALE A5 SHOWN SHEET 4 OF 8





	and the second						
MENTS WERE THAT I AM A ER UNDER THE	STILL OF MARINE #12043	DESIGNED BY : B.C.R.				-	WATER
1 AND. E 15 7/16/12.		DRAWN BY : B.C.R.			•		PROFILE
ARTER, INC.	A TON AL	CHECKED BY :					
LAND SURVEYORS		P.W.K.	-				600' SCALE MAP NO. <u>38</u>
UTIMORE NATIONAL PIKE	THIN MALLE PLOVED	DATE :	fcc	Λ	REAGE APPERTENTANCE LOCATIONS & CHART KATHIN 12" WM PROFILE	7/22/13	F.C.C. WORK ORDER
1011	PAUL W. KRIEBEL	MAY, 2012	BY	NO.	REVISION	DATE	FILE NAME : WATER & SEWER

WA	TER MAIN TABU	LATION CH	ART
STA.	APPURTENANCE	NORTHING	easting
7	12" WATER MAIN: BAN	IBURY DRIVE	
0.00	12"X12" TAPPING SLEEVE	552340.39	1307031.70
3.00	12" TAPPING VALVE	552343.13	1307030.56
2.00	1/0 H.B.	552351.35	1387826.91
8.46	1/8 H.B.	552364.30	1387792.82
0.00	12"X6" F.H. TEE	552513.57	1307731.05
6.00	12" VALVE	552519.11	1307720.76
4.39	12"X0" TEE	552619.26	1307607.31
0.39	12" VALVE	552624.81	1387685.01
8.37	1/16 H.B.	552696.86	1387655.19
2.58	1/16 H.B.	552752.32	1387605.90
3,30	12"X8" TEE	552774,55	1387560.31
8,87	12"xG" F.H. TEE	552996AU	1387187.31
8.26	12"X0" TEE	552960.79	1387178.33
4.27	12" VALVE	552963.42	1307172.93
4.88	12" XØ" CROSS	553016.20	1387064.52
0.88	12" VALVE	553018.91	1307059.12
<i>8.30</i>	1/32 H.B.	553022.16	1307052.45
3.81	1/32 H.B.	553037.62	1386988.79
1.22	12" PLUG & BUTTRESS	553062,60	1386922,81
27.02	12"× 8" TEE	552859,45	1387386.18

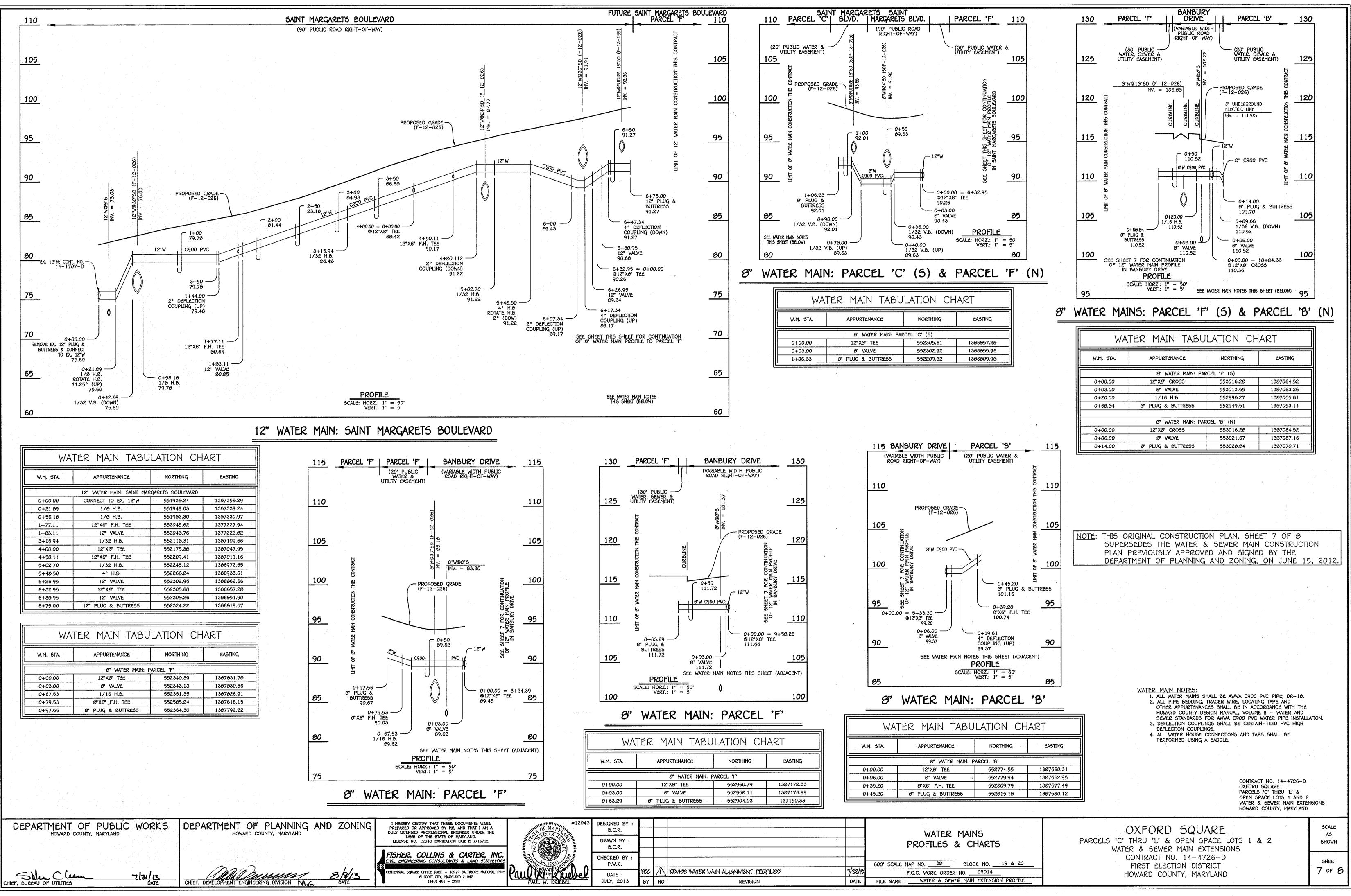
•	CONTRACT NO. 14-4726-D OXFORD SQUARE PARCELS 'C' THRU 'L' & OPEN SPACE LOTS 1 AND 2 WATER & SEWER MAIN EXTE HOWARD COUNTY, MARYLAND	N5ION5
R MAIN & CHART	OXFORD SQUARE A PARCELS 'C' THRU 'L' & OPEN SPACE LOTS 1 & 2 WATER & SEWER MAIN EXTENSIONS	SCALE AS SHOWN
BLOCK NO. <u>19 & 20</u> R NO. <u>09014</u> MAIN EXTENSION PROFILE SHEET	CONTRACT NO. 14-4726-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SHEET G OF B

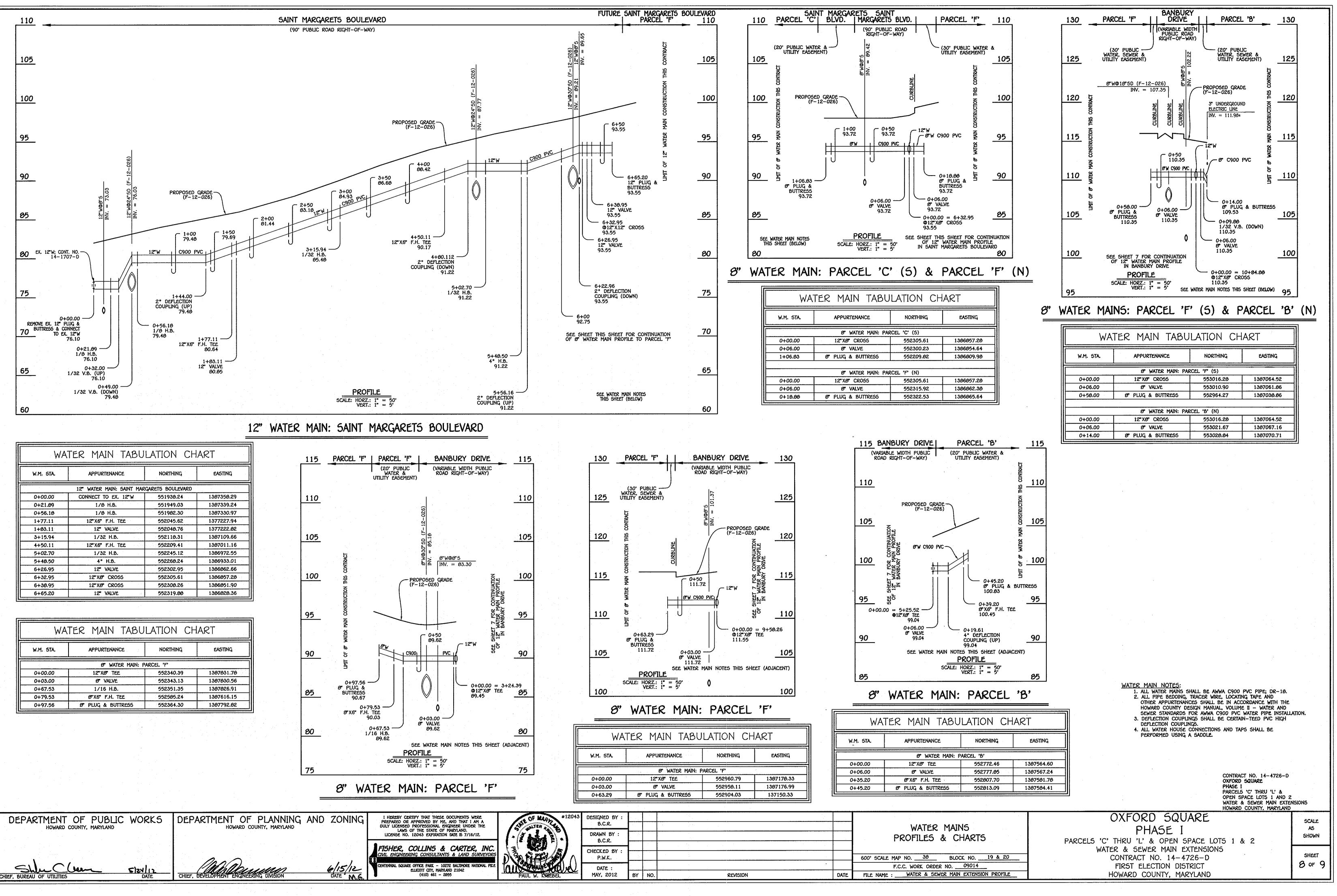
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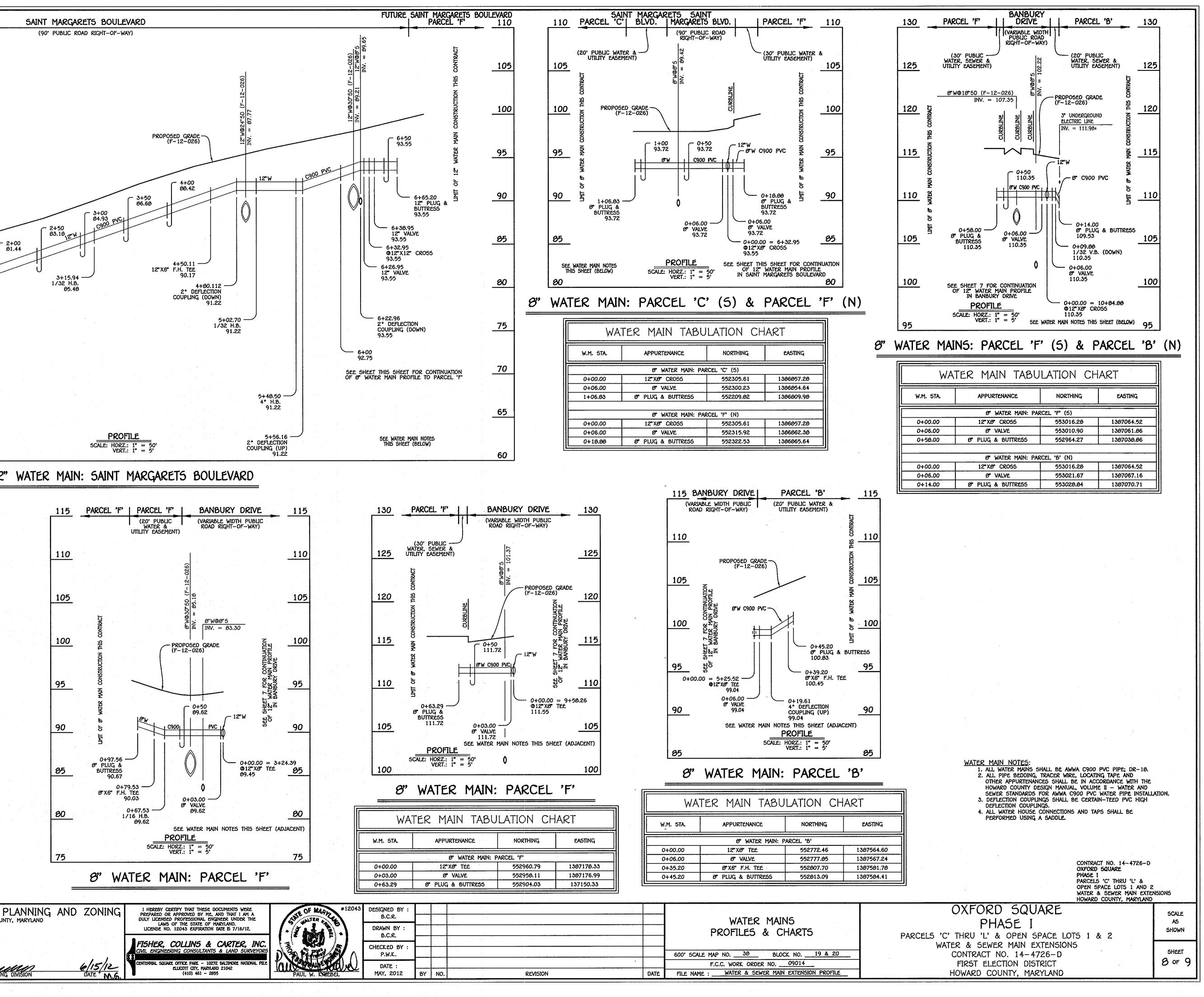
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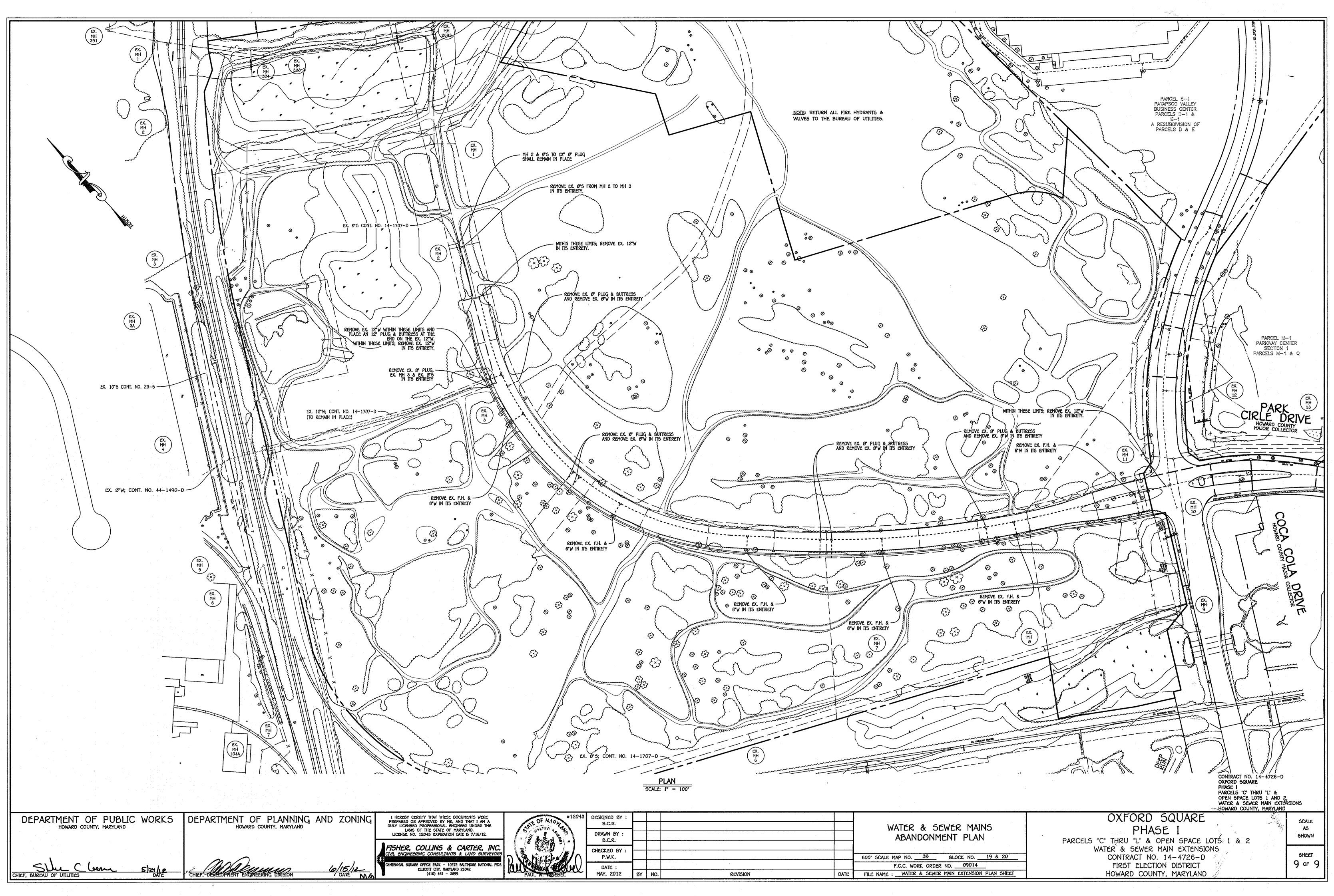






w.m. sta.	APPURTENANCE	NORTHING	EASTING
	12" WATER MAIN: SAINT MAR	GARETS BOULEVARD	
0+00.00	CONNECT TO EX. 12"W	551938.24	1387358.29
0+21.89	1/8 H.B.	551949.03	1307339.24
0+56.10	1/8 H.B.	551982.30	1307330.97
1+77.11	12"X6" F.H. TEE	552045.62	1377227.94
1+03.11	12" VALVE	552040.76	1377222.02
3+15.94	1/32 H.B.	552110.31	1307109.66
4+50.11	12"X6" F.H. TEE	552209.41	1307011.16
5+02.70	1/32 H.B.	552245.12	1386972.55
5+48.50	4° H.B.	552268.24	1386933.01
6+26.95	12" VALVE	552302.95	1386862.66
6+32.95	12" XØ" CR055	552305.61	1386857.28
6+38.95	12" XØ" CR055	552308.26	1386851.90
6+65.20	12" VALVE	552319.88	1386828.36

WA	TER MAIN TABU	LATION CH	IART
W.M. STA.	APPURTENANCE	NORTHING	EASTING
	8" WATER MAIN: P/	ARCEL 'F'	
0+00.00	12" X8" TEE	552340.39	1307031.70
0+03.00	8" VALVE	552343.13	1307030.56
0+67.53	1/16 H.B.	552351.35	1307026.91
0+79.53	8"X6" F.H. TEE	552585.24	1307616.15
0+97.56	Ø PLUG & BUTTRESS	552364.30	1387792.82



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& SEWE