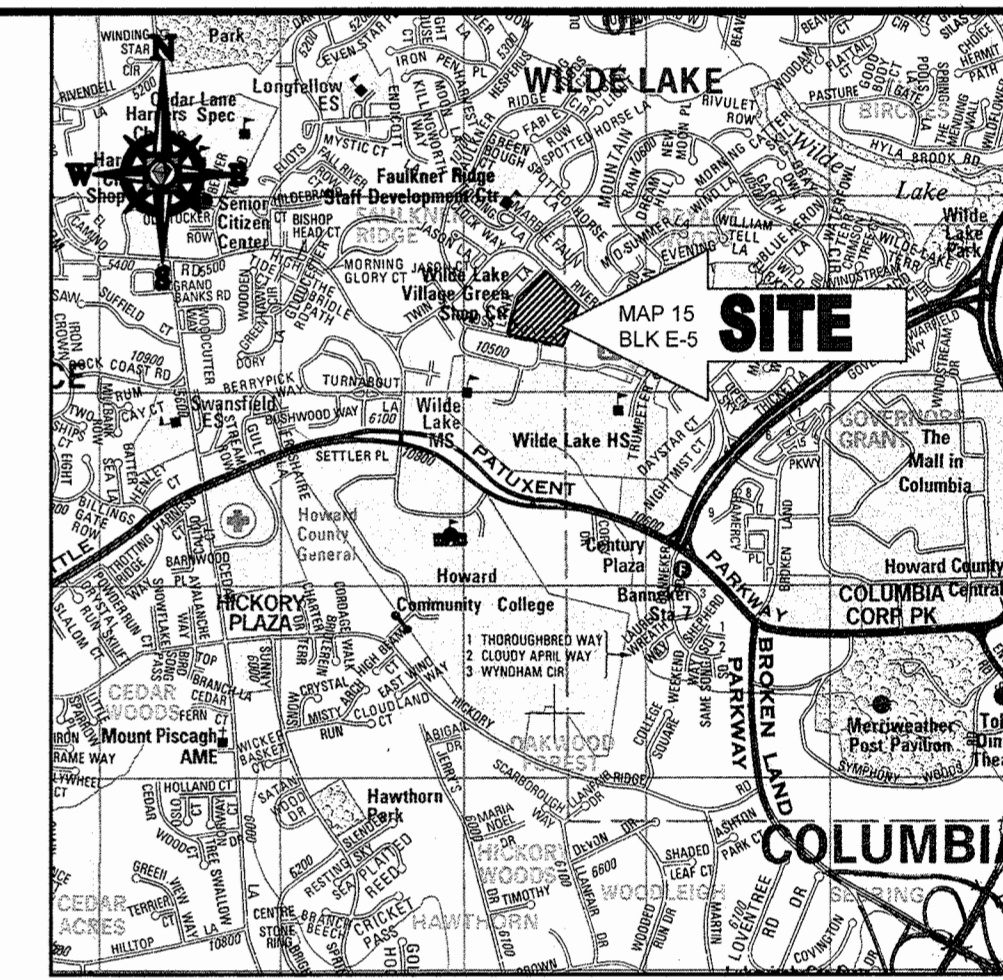


FINAL PUBLIC WATER & SEWER CONSTRUCTION PLAN

FOR WILDE LAKE VILLAGE CENTER REDEVELOPMENT



LOCATION MAP
COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20802153-5
SCALE: 1"=2000'

LOCATION OF SITE
TWIN RIVERS ROAD @ LYNX LANE, COLUMBIA, MARYLAND 21042
ZONING: NT, 5TH ELECTION DISTRICT
TAX MAP 29, GRID 24, TM PARCEL 272 (PARCELS A-C)
HOWARD COUNTY
CONTRACT NO. 24-4769-D

PARCEL	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
A	5405 LYNX LANE		
B	5410 LYNX LANE		
B	5315 VILLAGE CENTER DRIVE		
C	5421 LYNX LANE		
C	5425 LYNX LANE		
LOT 7	5400 LYNX LANE		

PARCEL	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
A	5405 LYNX LANE		
B	5410 LYNX LANE		
B	5315 VILLAGE CENTER DRIVE		
C	5421 LYNX LANE		
C	5425 LYNX LANE		

ITEM DESCRIPTION	QUANTITIES ESTIMATED	UNIT	AS-BUILT		
			QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
12" TAPPING SLEEVE AND VALVE	1	EA	1 EA.	STAINLESS	ROMAC
8" WATER HOUSE CONNECTION	4	EA	4 EA.	PVC	NATIONAL
2" WATER HOUSE CONNECTION	1	EA	1 EA.	COPPER	CAMBRIDGE LEE
1 1/2" WATER HOUSE CONNECTION	1	EA	1 EA.	COPPER	CAMBRIDGE LEE
1" WATER HOUSE CONNECTION	1	EA	1 EA.	COPPER	CAMBRIDGE LEE
FIRE HYDRANT	4	EA	4 EA.	CENTURION	MUELLER
8" VALVE	7	EA	7 EA.	GATE	MUELLER
6" VALVE	8	EA	8 EA.	GATE	MUELLER
8"x8" TEE	2	EA	2 EA.	EPDM DIP	STAR PIPE
8"x6" TEE	8	EA	8 EA.	EPDM DIP	STAR PIPE
8" 1/2 HB	5	EA	5 EA.	EPDM DIP	STAR PIPE
8" 1/2 HB	1	EA	1 EA.	EPDM DIP	STAR PIPE
8" CAP AND BUTTRISS	2	EA	2 EA.	DIP	STAR PIPE
8" WATER C900 DR-18 PVC	1138	L.F.	1138 L.F.	PVC	NATIONAL PIPE
6" WATER D.I.P.	100	L.F.	100 L.F.	DIPCL 54	GRIFFIN PIPE
8" SEWER DR-35 PVC	1088	L.F.	1088 L.F.	PVC	NATIONAL PIPE
STANDARD PRECAST MANHOLE	8	EA	8 EA.	PRECAST CONCRETE	ATLANTIC CONCRETE
DOGHOUSE MANHOLE	1	EA	1 EA.	PRECAST CONCRETE	ATLANTIC CONCRETE

4" WATER DIP	9.00	LF		
4" WATER HOUSE CONNECTION	1	EA		
8"x4" TEE	1	EA		
4" VALVE	1	EA		

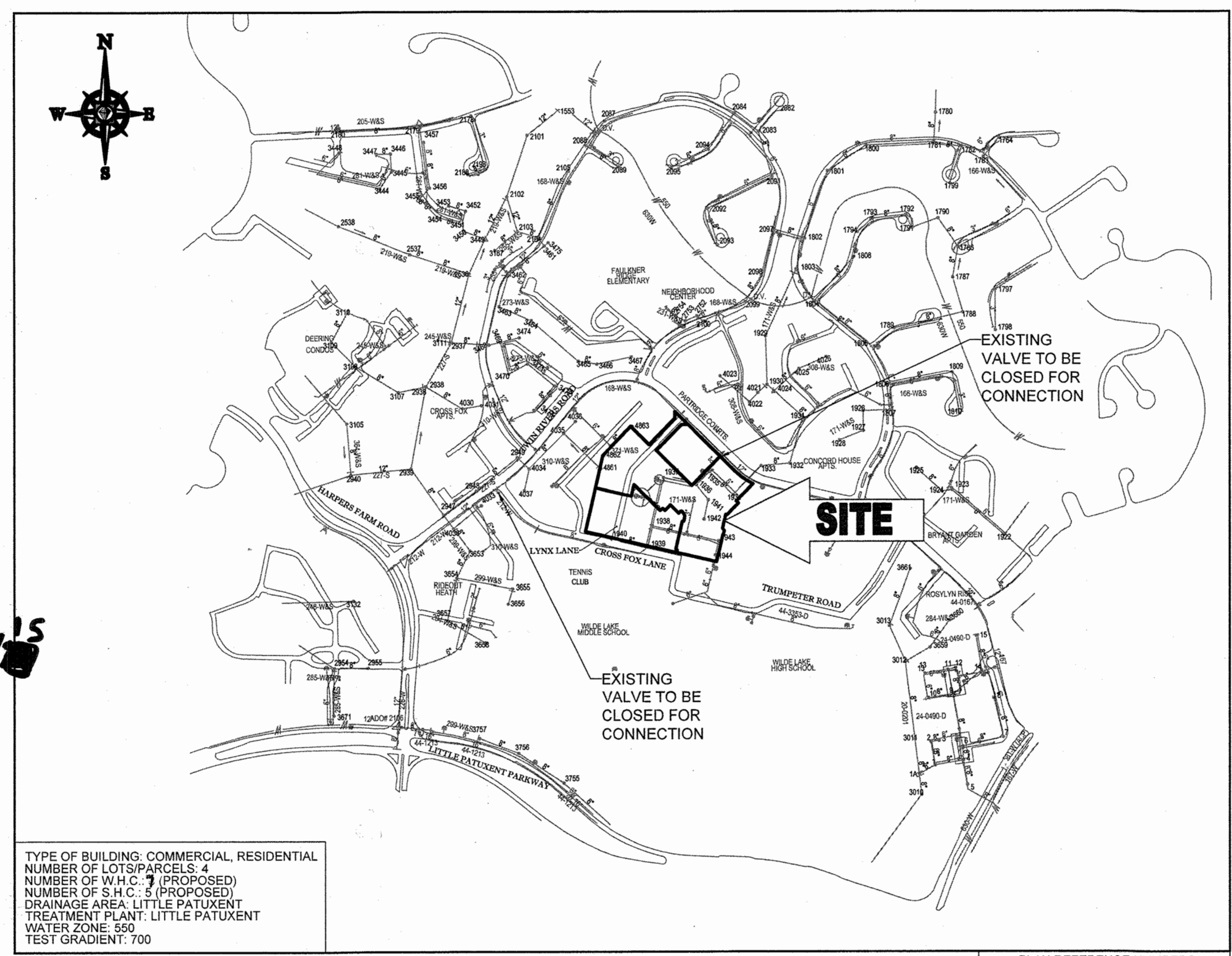
LEGEND

—	WATER MAIN	—	EXISTING WATER MAIN
—	SANITARY SEWER	—	EXISTING SANITARY SEWER
—	WATER VALVE	—	EXISTING STORMDRAIN
—	TEE	—	EXISTING SANITARY SEWER MANHOLE
—	CROSS	—	PUBLIC EASEMENT
—	FIRE HYDRANT	—	WATER HOUSE CONNECTION (WHC)
—	FIRE DEPARTMENT CONNECTION	—	SEWER HOUSE CONNECTION (SHC)
—	SANITARY SEWER MANHOLE	—	SANITARY CLEANOUT
—	STORMDRAIN	—	

FOR REVISION 3 ONLY
M.I. GIBSELL
PROFESSIONAL ENGINEER
6/19/15

PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, 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. 44007, EXPIRATION DATE: 6/30/17

FOR REVISION 5 ONLY
4/10/17



VICINITY MAP
SCALE: 1"=600'

PLAN REFERENCE NUMBERS:
SDP-13-046 2B-1096m SDP-72-083
F-1-040 F-7-057 SDP-77-097
FDP-39-A1 F-65-045 SDP-85-204
FDP-2-A-2X PB 12 F-1-43 SDP-97-111
ECP-13-003 (PLAT) SDP-93-087
SP-13-001 SDP-70-074 SDP-94-045
SDP-72-064 PB-937

OWNER: PARCEL 272, LOTS 3 & 6 & PARCEL 132, LOTS 1-3 WILDE LAKE BUSINESS TRUST
DEVELOPER: KIMCO REALTY CORPORATION
PROFESSIONAL CERTIFICATION: I, MICHAEL J. GESELL, 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. 44007, EXPIRATION DATE: 6/30/17

WATER NOTES

- THE SITE IS WITHIN A CORROSION AREA AND ALL WATER MAINS ARE TO BE C900 PVC UNLESS OTHERWISE NOTED.
- 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 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 THE 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.
- TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP 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 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.
- UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, 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 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 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.

GENERAL NOTES

- 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.
- THE TOPOGRAPHY SHOWN IS BASED ON A FIELD-RUN SURVEY BY BOHLER ENGINEERING, ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY: KIMCO, COLUMBIA VILLAGE OF WILDE LAKE, LOTS 1-3, P.B. 12, FOLIO 43, LOTS 3 & 6, P.B. 19, FOLIO 44-46, FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD" DATED SEPTEMBER 28, 2011.
- 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. 35C14 AND NO. 36AA. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE A BENCHMARK BOX CUT, ELEV. 448.89, LOCATED AT N 568.450.77, E 1.347.594.28 AND A BENCHMARK BOX CUT, ELEV. 457.00, LOCATED AT N 568.095.38, E 1.347.540.84.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, 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.

- ALL CHANGES IN HORIZONTAL OR VERTICAL DEFLECTION 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. 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 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 DEFLECTION OF 3-DEGREES (1) DEGREE ON EITHER END OF THE COUPLING. SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA 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) STOP COUPLINGS OR EQUAL.
- FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL.
- WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PIPELINES, THE CONTRACTOR SHALL INSTALL 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 OR 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 EBBA IRON, INC. OR APPROVED EQUAL.

SEWER NOTES

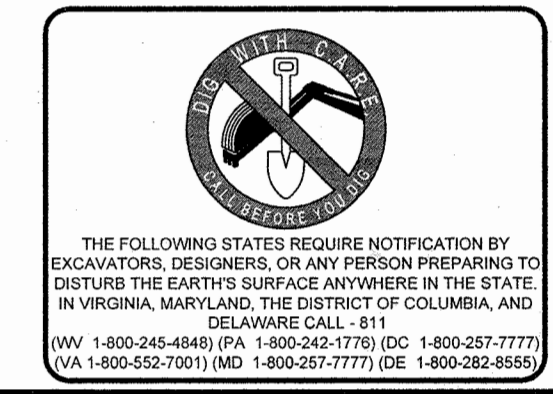
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL GS.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL "T" 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:

AT&T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	410-637-5713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLUMBIA PIPELINE COMPANY	410-795-1390
MISS UTILITY	1-800-237-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
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.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE 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 BRACKING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

GEODETIC SURVEY CONTROL - 35C14	ELEV. 447.77
LOCATED ALONG LITTLE PATUXENT PARKWAY BY COLUMBIA PROFESSIONAL BUILDING.	
GEODETIC SURVEY CONTROL - 36AA	N 562.904.05
E 1.349.006.17	ELEV. 359.151
LOCATED AT THE CORNER OF LITTLE PATUXENT PARKWAY AND BROKEN LAND PARKWAY.	

SHEET TITLE	SHEET NUMBER
WATER AND SEWER CONSTRUCTION PLAN	1
WATER AND SEWER SYSTEM PLAN	2
WATER MAIN PROFILES	3
SEWER PROFILES	4
EXISTING CONDITIONS AND ABANDONMENT PLAN	5



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
DATE: 11/28/14

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 2.5.14

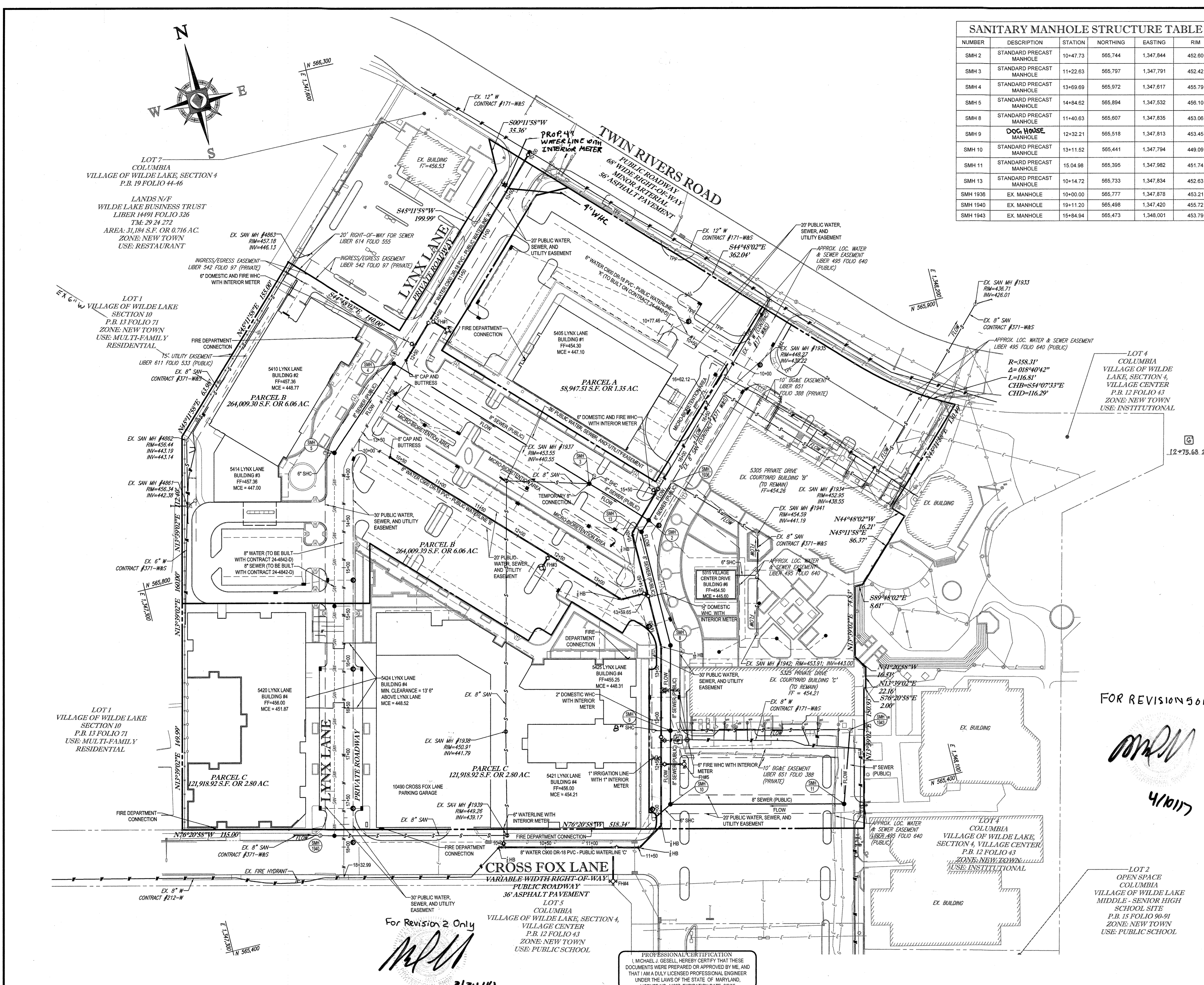
BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21284
Phone: (410) 821-7900
Fax: (410) 821-7987
www.BohlerEngineering.com

PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, 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. 44007, EXPIRATION DATE: 6/30/17

DES. M.J.G.	REVISED AS-BUILTS	DATE
5	3/18/17	REVISED TO ADD WHC TO LOT 7
4	10/26/15	KCI AS-BUILTS
3	5/18/15	REVISED SHC INTO SMH-9
2	3/24/14	REVISED SMH-9
1	12/23/13	REVISED PER COUNTY COMMENTS

WATER AND SEWER CONSTRUCTION PLAN
PARCEL NO. 272 (PARCELS A-C)
600' SCALE MAP NO. 29 BLOCK NO. ---

WILDE LAKE VILLAGE CENTER REDEVELOPMENT
TAX MAP 29, PARCEL 272 (PARCELS A-C)
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 24-4769-D
SCALE: AS SHOWN
SHEET: 1 OF 5



SANITARY MANHOLE STRUCTURE TABLE					
NUMBER	DESCRIPTION	STATION	NORTHING	EASTING	RIM
SMH 2	STANDARD PRECAST MANHOLE	10+47.73	565,744	1,347,844	452.80
SMH 3	STANDARD PRECAST MANHOLE	11+22.63	565,797	1,347,791	452.42
SMH 4	STANDARD PRECAST MANHOLE	13+69.69	565,972	1,347,617	455.79
SMH 5	STANDARD PRECAST MANHOLE	14+84.62	565,894	1,347,532	456.10
SMH 8	STANDARD PRECAST MANHOLE	11+40.63	565,607	1,347,835	453.06
SMH 9	DOG HOUSE MANHOLE	12+32.21	565,518	1,347,813	453.45
SMH 10	STANDARD PRECAST MANHOLE	13+11.52	565,441	1,347,794	449.09
SMH 11	STANDARD PRECAST MANHOLE	15+04.98	565,395	1,347,982	451.74
SMH 13	STANDARD PRECAST MANHOLE	10+14.72	565,733	1,347,834	452.63
SMH 1936	EX. MANHOLE	10+00.00	565,777	1,347,878	453.21
SMH 1940	EX. MANHOLE	19+11.20	565,498	1,347,420	455.72
SMH 1943	EX. MANHOLE	15+84.94	565,473	1,348,001	453.79

FIRE HYDRANT TABLE						
NUMBER	STATION (WATERLINE)	BURY LENGTH ELEV.	BURY LENGTH	NORTHING	EASTING	COMMENT
FH#1	12+08.86 (A)	455.60	4.00'	565,993	1,347,682	
FH#3	12+40.06 (B)	454.30	5.00'	565,721	1,347,720	
FH#4	11+22.70 (C)	448.68	6.00'	565,376	1,347,715	
FH#5	12+49.99 (C)	451.99	6.50'	565,480	1,347,819	

WATER FITTINGS TABLE					
STATION (WATERLINE)	DESCRIPTION	NORTHING	EASTING	COMMENT	
10+00.00 (A)	12"x8" TAPPING SLEEVE AND VALVE	566,157	1,347,813	EX. 12" WATER INV. = 448.15 PER CONTRACT #171 W&S	
12+08.86 (A)	(1) 8"x6" TEE, (1) 8" VALVE, (1) 6" VALVE	566,008	1,347,666		
12+41.20 (A)	(1) 8"x6" TEE, (1) 6" VALVE	565,985	1,347,643		
12+59.53 (A)	(1) 8" CAP AND BUTTRESS	565,672	1,347,830		
10+38.59 (B)	(1) 6" CAP AND BUTTRESS	565,875	1,347,590		
12+40.06 (B)	(1) 8"x6" TEE, (1) 6" VALVE	565,732	1,347,732		
13+30.78 (B)	1/2" HB	565,688	1,347,795		
10+00.00 (C)	1/2" HB	565,440	1,347,604	EX. 8" WATER INV. = 443.90 PER CONTRACT #212-W	
10+05.00 (C)	(1) 8"x6" TEE, (1) 6" VALVE	565,492	1,347,609		
11+22.70 (C)	(1) 8"x6" TEE, (1) 8" VALVE, (1) 6" VALVE	565,411	1,347,723		
11+51.24 (C)	1/2" HB	565,404	1,347,751		
11+83.92 (C)	1/2" HB	565,421	1,347,779		
12+49.99 (C)	(1) 8"x6" TEE, (1) 6" VALVE	565,486	1,347,795		
12+75.68 (C)	(1) 8"x6" TEE, (2) 8" VALVES	565,510	1,347,801	EX. 8" WATER INV. = 447.01 PER CONTRACT #171 W&S	
13+29.79 (C)	(1) 8"x6" TEE, (1) 6" VALVE	565,563	1,347,814	8"x6" Tee installed on Contract #171	
13+78.40 (C)	1/2" HB	565,608	1,347,825		
14+36.25 (C)	(1) 8"x6" TEE, (2) 8" VALVES	565,668	1,347,824		
13+69.85 (B)	1/2" HB	565,668	1,347,824		
15+02.35 (C)	1/2" HB	565,737	1,347,826		
15+48.17 (C)	(1) 8"x6" TEE, (1) 6" VALVE	565,771	1,347,859		
15+57.14 (C)	(1) 8" VALVE	565,773	1,347,861	EX. 8" WATER INV. = 447.69 PER CONTRACT #171 W&S	
10+43.86	(1) 8"x6" TEE, (1) 6" VALVE	566,128	1,347,778		

WILDE LAKE REDEVELOPMENT WATER VALVES				
VALVE STATIONS	MEASUREMENT #1	MEASUREMENT #2	MEASUREMENT #3	CONTRACT #24-4769-D
12+85	TO SMH #4 28.0'	TO FH #1 34.1'	TO CTS #1 32.5'	#24-4769
12+06	TO FH #1 14.1'	TO VALVE 12+17 4.2'	TO CTS #1 30.7'	#24-4769
12+17	TO FH #1 21.4'	TO VALVE 12+08 4.2'	TO VALVE 12+08 4.2'	#24-4769
13+59	TO SMH #5 30.4'	TO STORM #5 20.4'	TO VALVE 13+55 2.8'	#24-4769
13+59	TO SMH #5 33.2'	TO STORM #5 32.7'	TO VALVE 13+59 2.8'	#24-4769
15+42	TO FH #2 2.1'	TO SMH #6 2.7'	TO VALVE 16+65 3'	#24-4769
15+45	TO FH #2 2.1'	TO SMH #6 2.7'	TO VALVE 15+62 3'	#24-4769
12+70	TO FH #5 30.5'	TO VALVE 12+75 25.2'	TO VALVE 12+75 27.4'	#24-4769
12+40	TO VALVE 12+50 10.2'	FH #3 TO CTS #3 1.1'	TO INLET D-5 83.4'	#24-4769
10+00	TO VALVE 10+77 78.5'	TO FH #7 76'	TO SMH #3 61.2'	#24-4769

FIRE PROTECTION NOTES

1. THE EXISTING COURTYARD BUILDING 'B' DOES NOT HAVE AN EXISTING FIRE PROTECTION SYSTEM INSTALLED. NO SYSTEM IS PROPOSED TO BE INSTALLED AS PART OF THESE PLANS.

2. THE EXISTING COURTYARD BUILDING 'C' HAS AN EXISTING FIRE PROTECTION SYSTEM INSTALLED. A NEW CONNECTION TO THE WATERLINE IS PROPOSED AS PART OF THESE PLANS. THE EXISTING SPRINKLER SYSTEM MUST REMAIN ACTIVE DURING THE CONSTRUCTION OF THE CENTER.

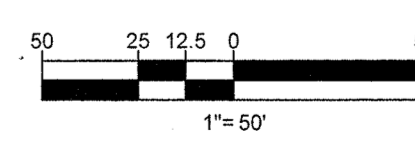
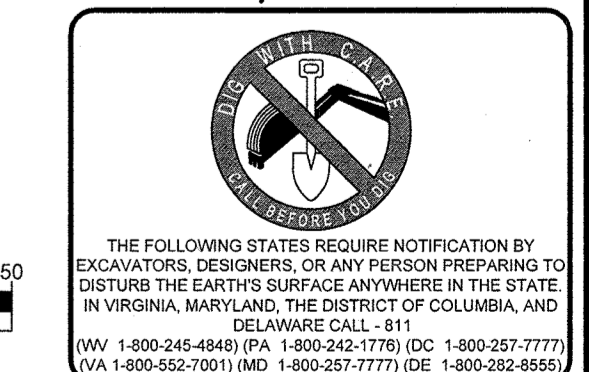
FOR REVISION 5 ONLY
 4/10/17

FOR REVISION 3 ONLY
 6/9/15

For Revision 2 Only
 3/24/14

PROFESSIONAL CERTIFICATION
 I, MICHAEL J. GIBELL, 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. 44071, EXPIRATION DATE: 5/9/15

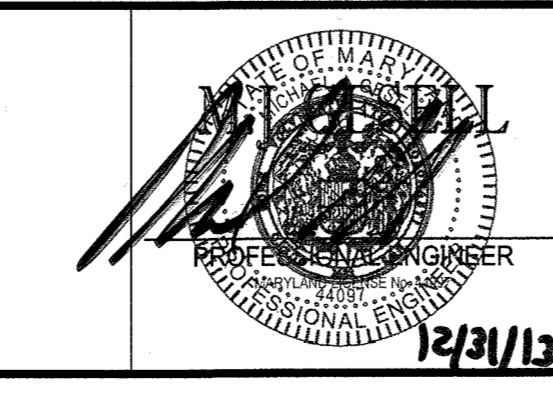
PROFESSIONAL CERTIFICATION
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 Date: 11/5/14

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 Date: 2-5-14

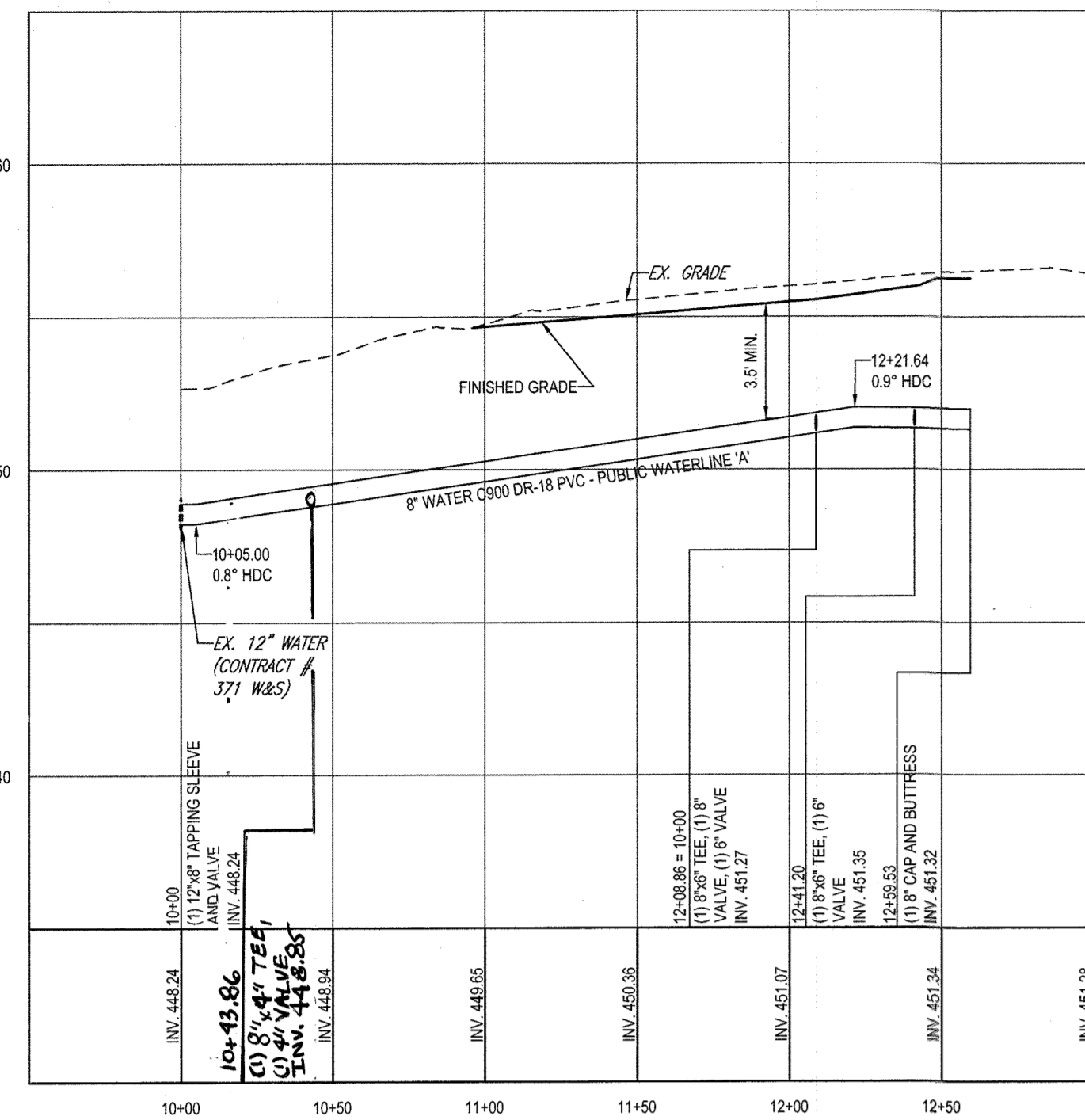
BOHLER ENGINEERING
 901 DULANEY VALLEY ROAD, SUITE 801 TOWSON, MARYLAND 21284
 Phone: (410) 821-7900 Fax: (410) 821-7987
 www.BohlerEngineering.com



DES. M.J.G.	DATE	DESCRIPTION	BY
G	3-8-17	Revised "As Built"	CAR
5	10-26-15	REVISE TO ADD WHC TO LOT 7C	CLS
4	6/8/16	KCI AS-BUILTS	PAB
3	3/24/14	REVISED SHC INTO SMH-9	MJG
2	12/23/13	REVISED PER COUNTY COMMENTS	MDD
1	12/23/13	REVISED PER COUNTY COMMENTS	MDD

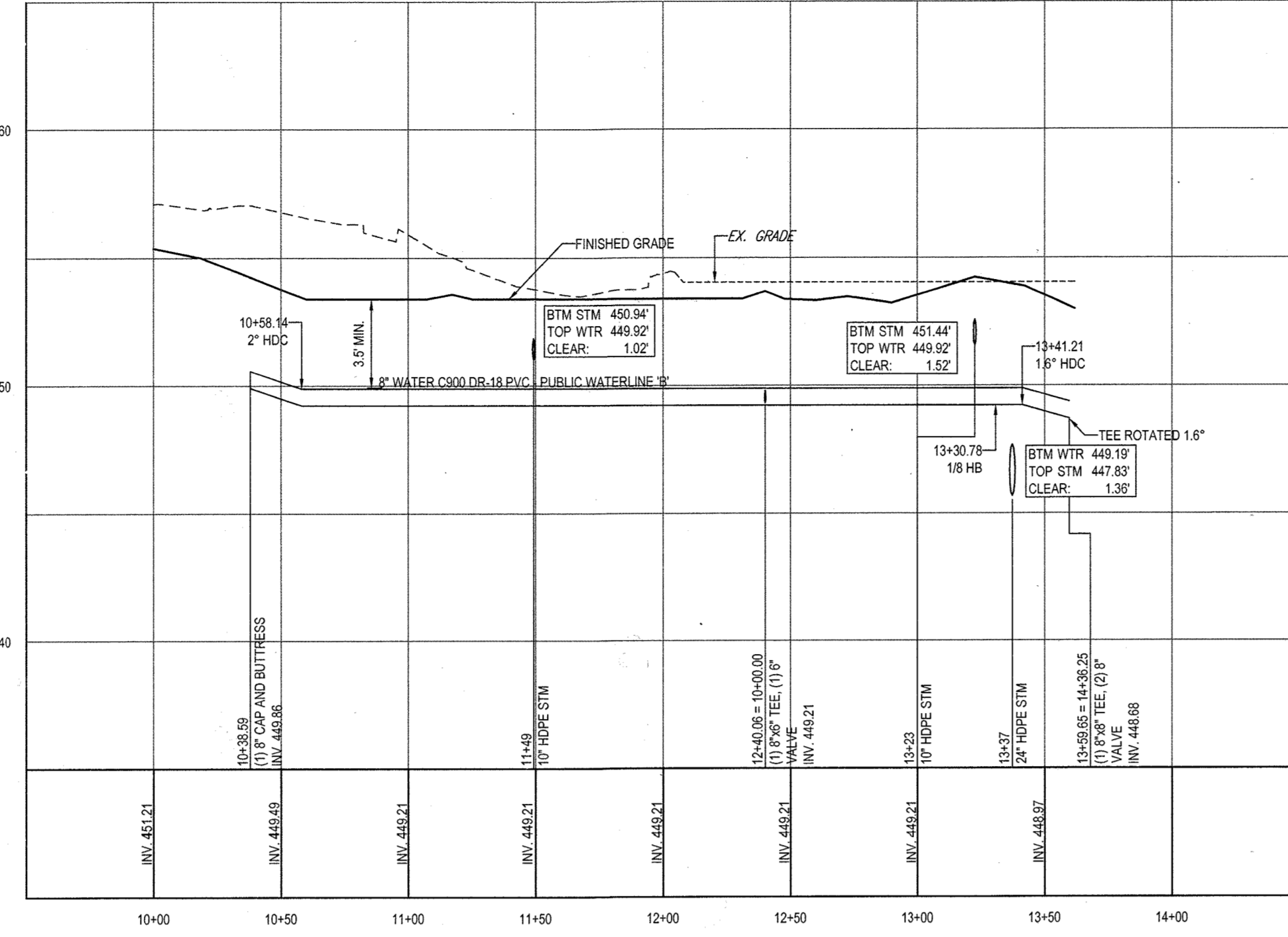
WATER AND SEWER SYSTEM PLAN
 PARCEL NO. 272 (PARCELS A-C)
 600' SCALE MAP NO. 29 BLOCK NO. ---

WILDE LAKE VILLAGE CENTER REDEVELOPMENT TAX MAP 29, PARCEL 272 (PARCELS A-C) 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO.: 24-4769-D
 SCALE: 1"=50'
 SHEET: 2 OF 5



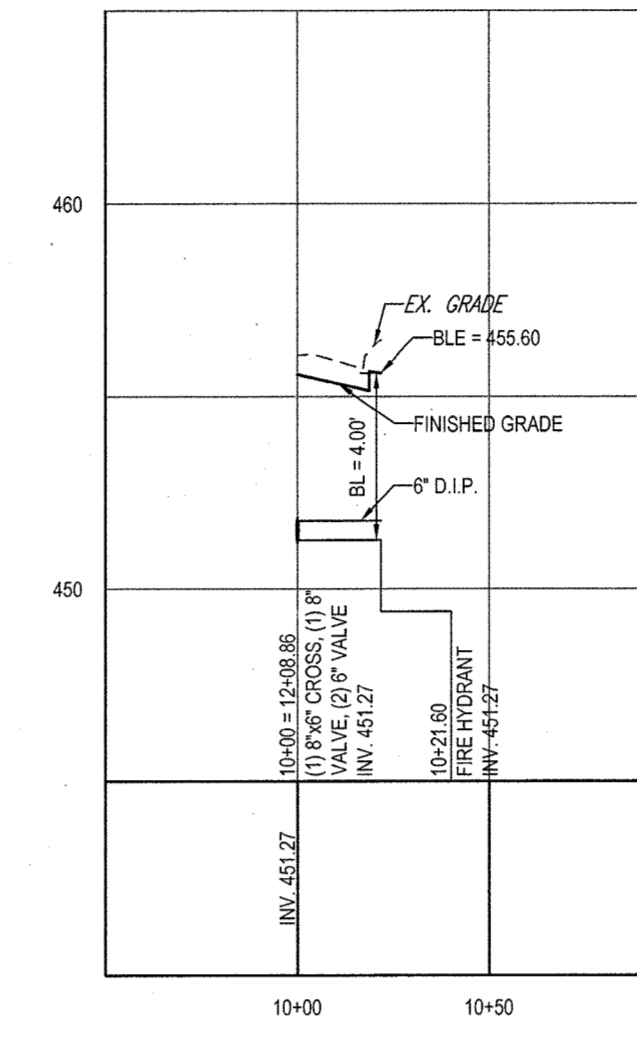
WATERLINE 'A' PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



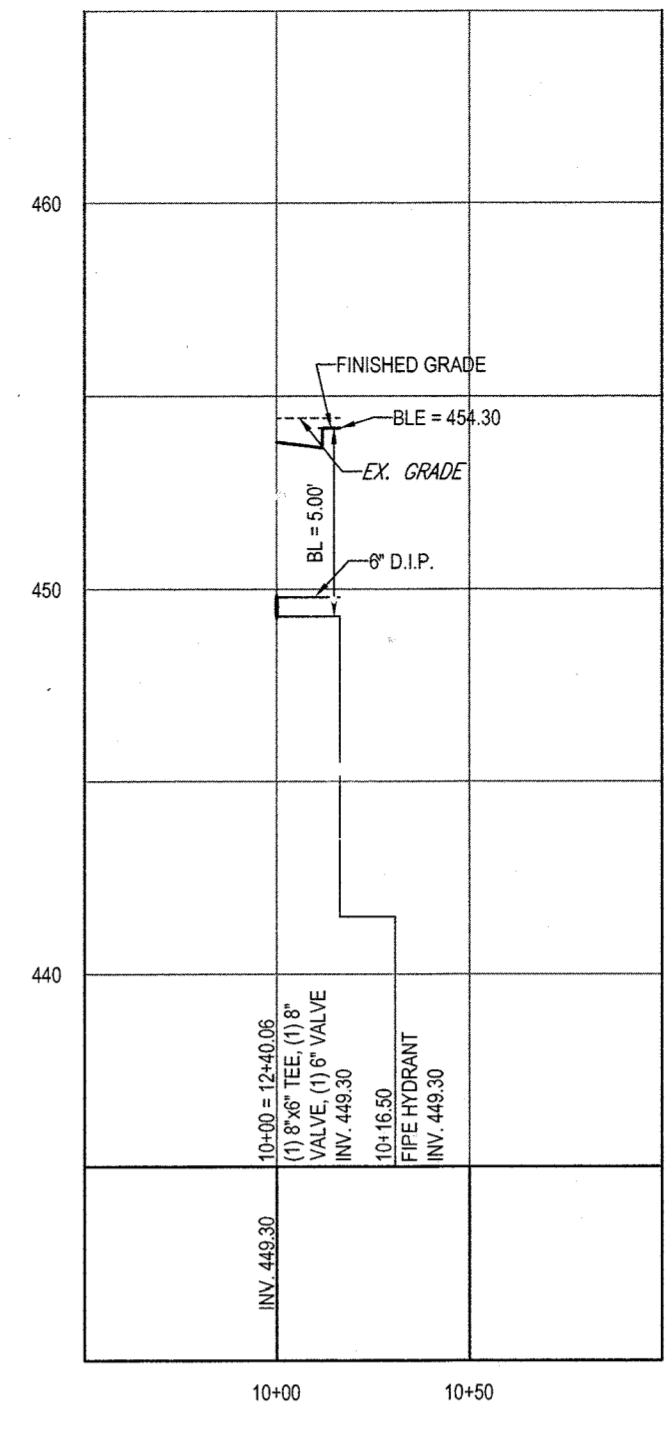
WATERLINE 'B' PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



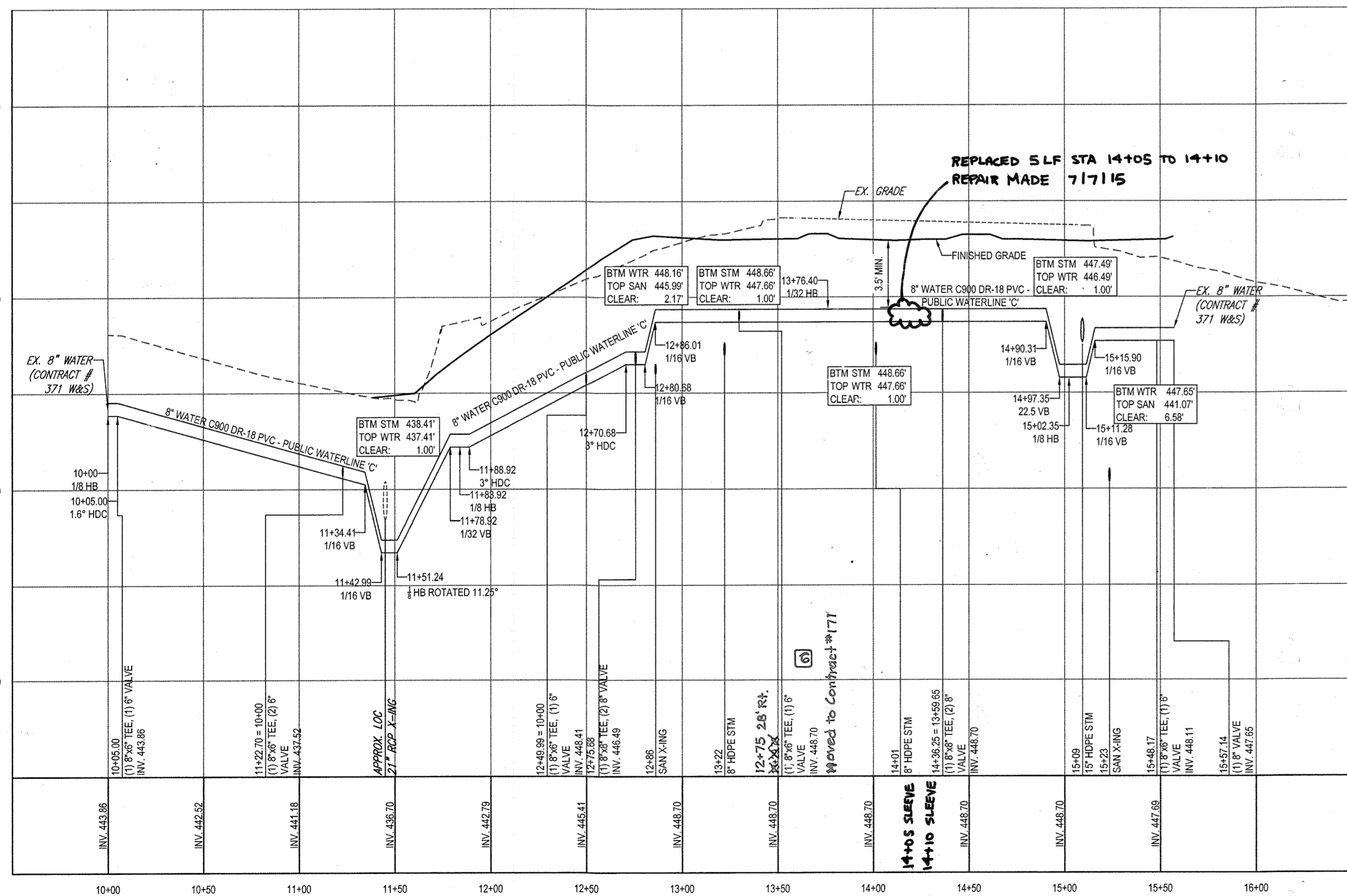
FH#1 PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



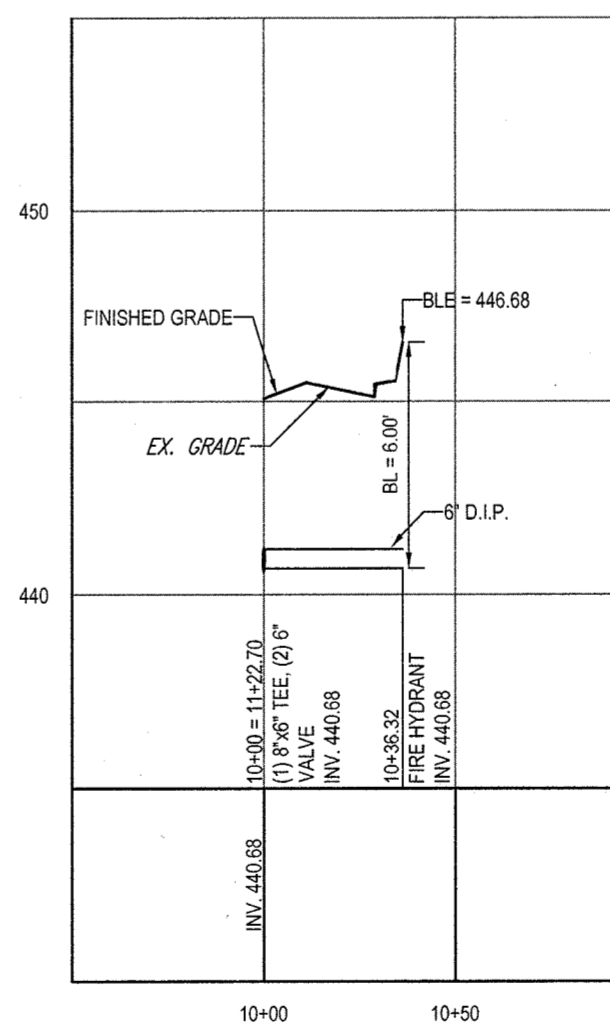
FH#3 PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



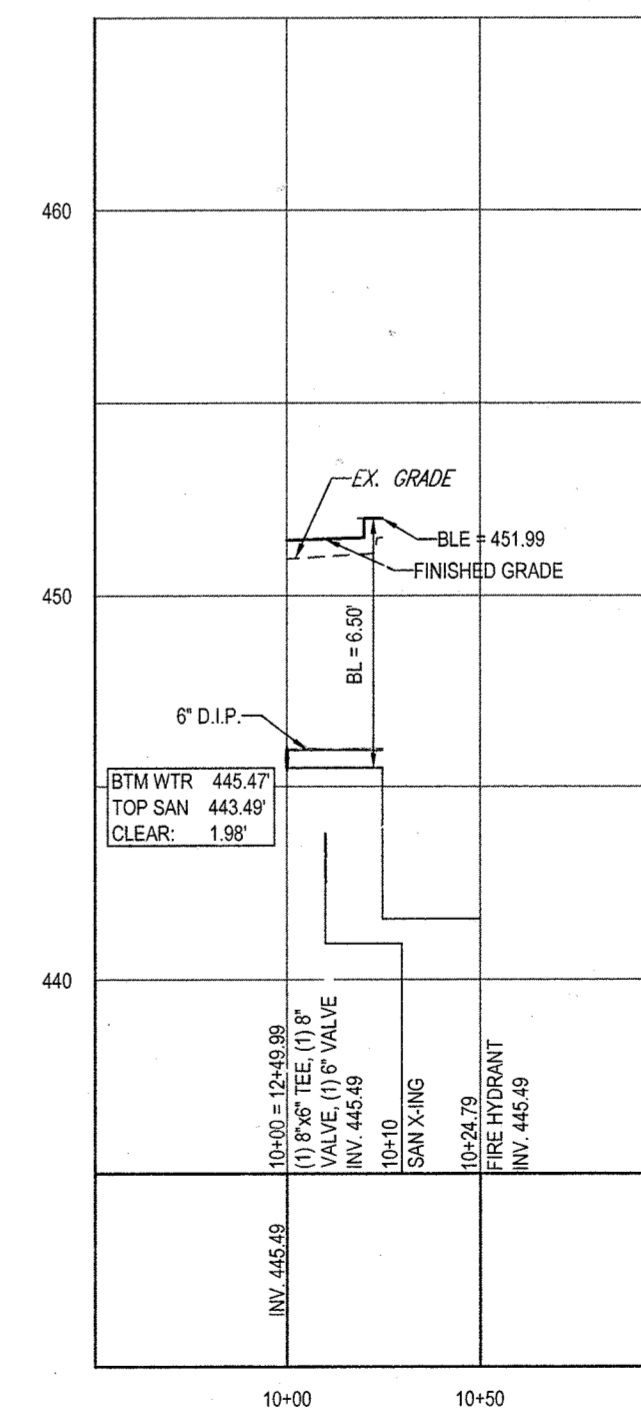
WATERLINE 'C' PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



FH#4 PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



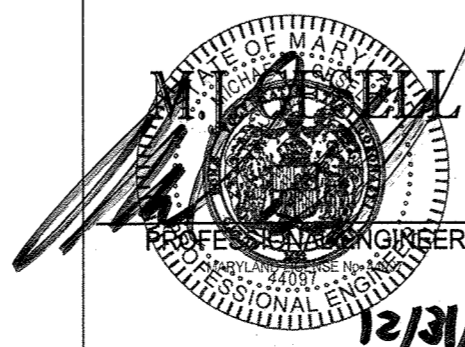
FH#5 PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

FOR REVISION 5 ONLY

[Handwritten Signature]
4/10/17

PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, 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. 44097, EXPIRATION DATE: 8/31/15



BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21284
Phone: (410) 821-7900
Fax: (410) 821-7987
www.BohlerEngineering.com

DES. M.J.G.				
DRN. R.J.M.	6	Revised "As Built"		
CHK. M.J.G.	5	3-8-17	REVISED TO ADD WHC TO LOT 7	CAR
	2	10-24-15	KCI AS-BUILTS	CIS
DATE: 7/2/13	1	12/23/13	REVISED PER COUNTY COMMENTS	MDD
REV.	DATE	DESCRIPTION	BY	

WATER MAIN PROFILES

PARCEL NO. 272 (PARCELS A-C)
600' SCALE MAP NO. 29 BLOCK NO. -

WILDE LAKE VILLAGE CENTER REDEVELOPMENT
TAX MAP 29, PARCEL 272 (PARCELS A-C)
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 24-4769-D

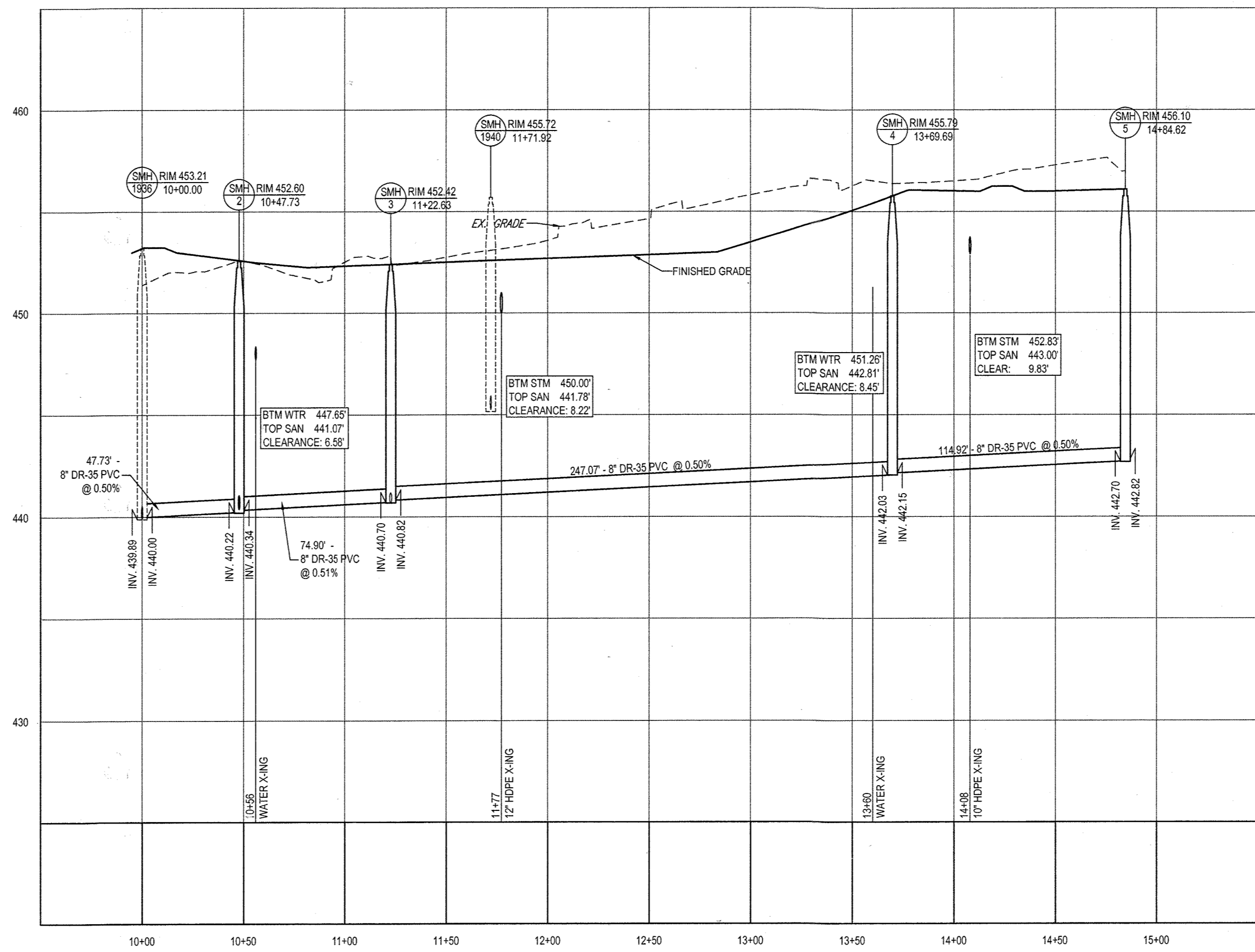
SCALE: 1"=50'
SHEET: 3 OF 5

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

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

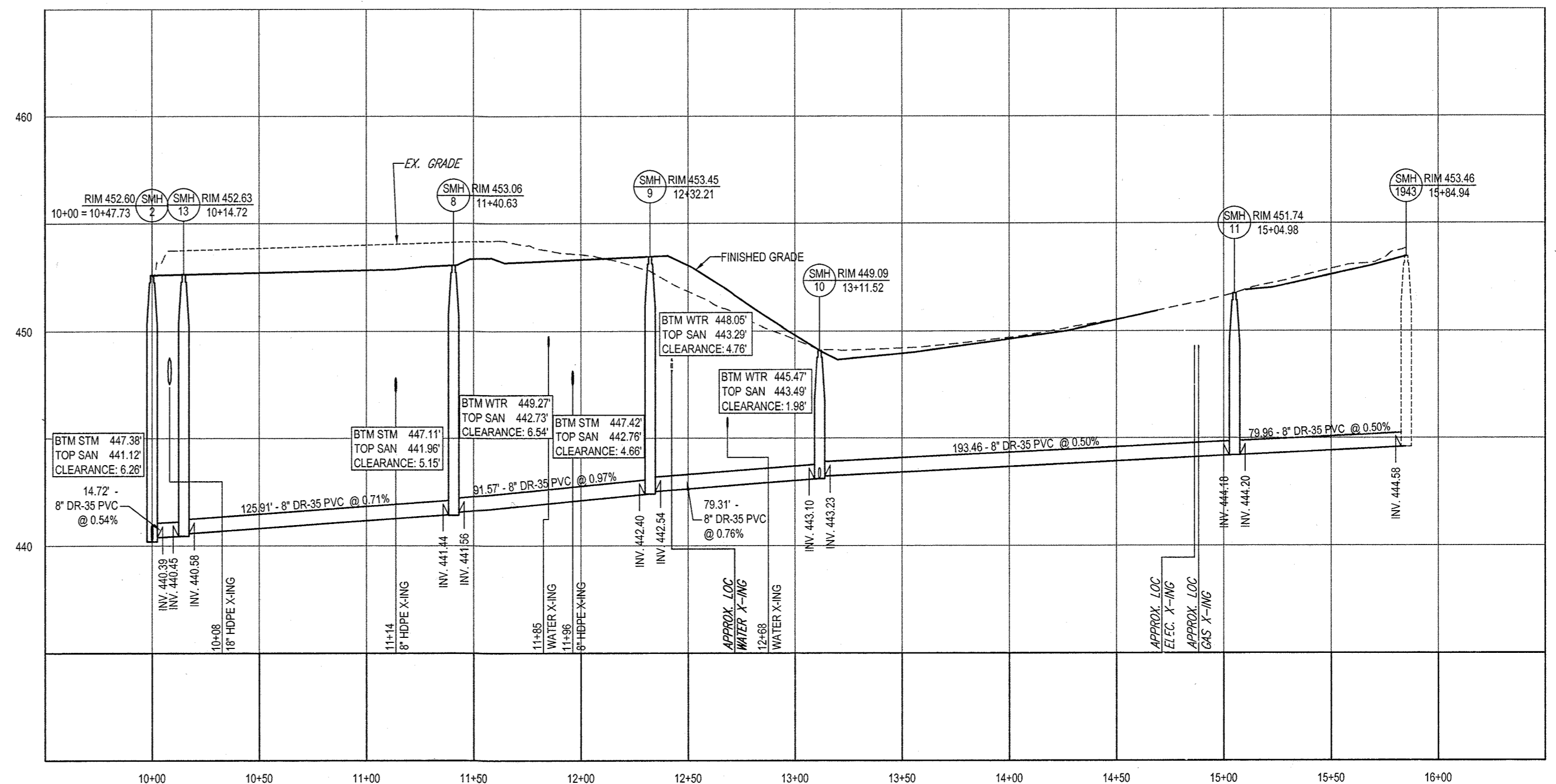
11/13/14
DATE

2.5.14
DATE



SANITARY 'A' PROFILE

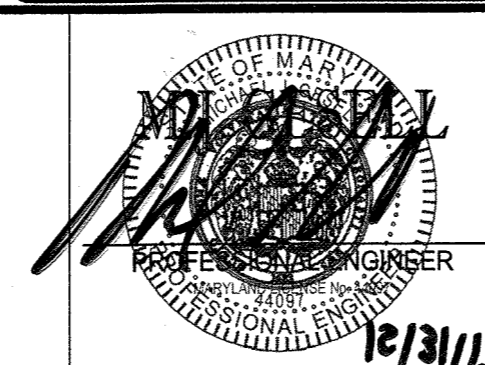
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



SANITARY 'B' PROFILE

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

PROFESSIONAL CERTIFICATION
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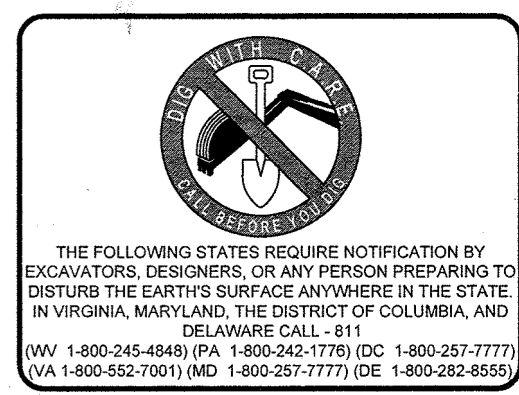


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Fax: (410) 821-7987
www.BohlerEngineering.com

DES. M.J.G.				
DRN. R.J.M.				
CHK. M.J.G.				
DATE: 7/2/13	1	12/23/13	REVISED PER COUNTY COMMENTS	MDD
REV.	DATE	DESCRIPTION	BY	600' SCALE MAP NO. 29 BLOCK NO. --

SEWER PROFILES

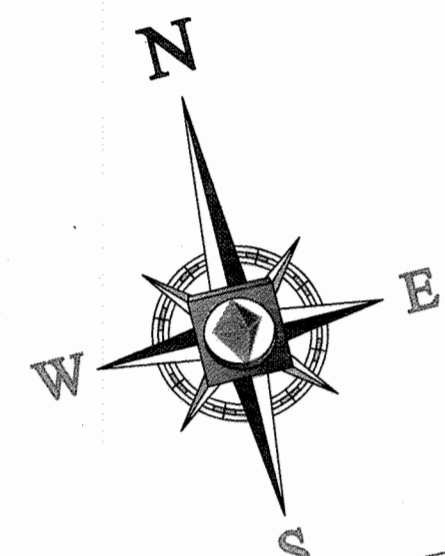
**WILDE LAKE VILLAGE CENTER REDEVELOPMENT
TAX MAP 29, PARCEL 272 (PARCELS A-C)
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 24-4769-D**



THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE, IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE CALL: 811 (MV 1-800-245-4548) (PA 1-800-242-1778) (DC 1-800-257-7777) (VA 1-800-452-7031) (MD 1-800-257-3777) (DE 1-800-393-8555)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
DATE: 1/13/14

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 2-5-14



LOT 7
COLUMBIA
VILLAGE OF WILDE LAKE, SECTION 4
P.B. 19 FOLIO 44-46

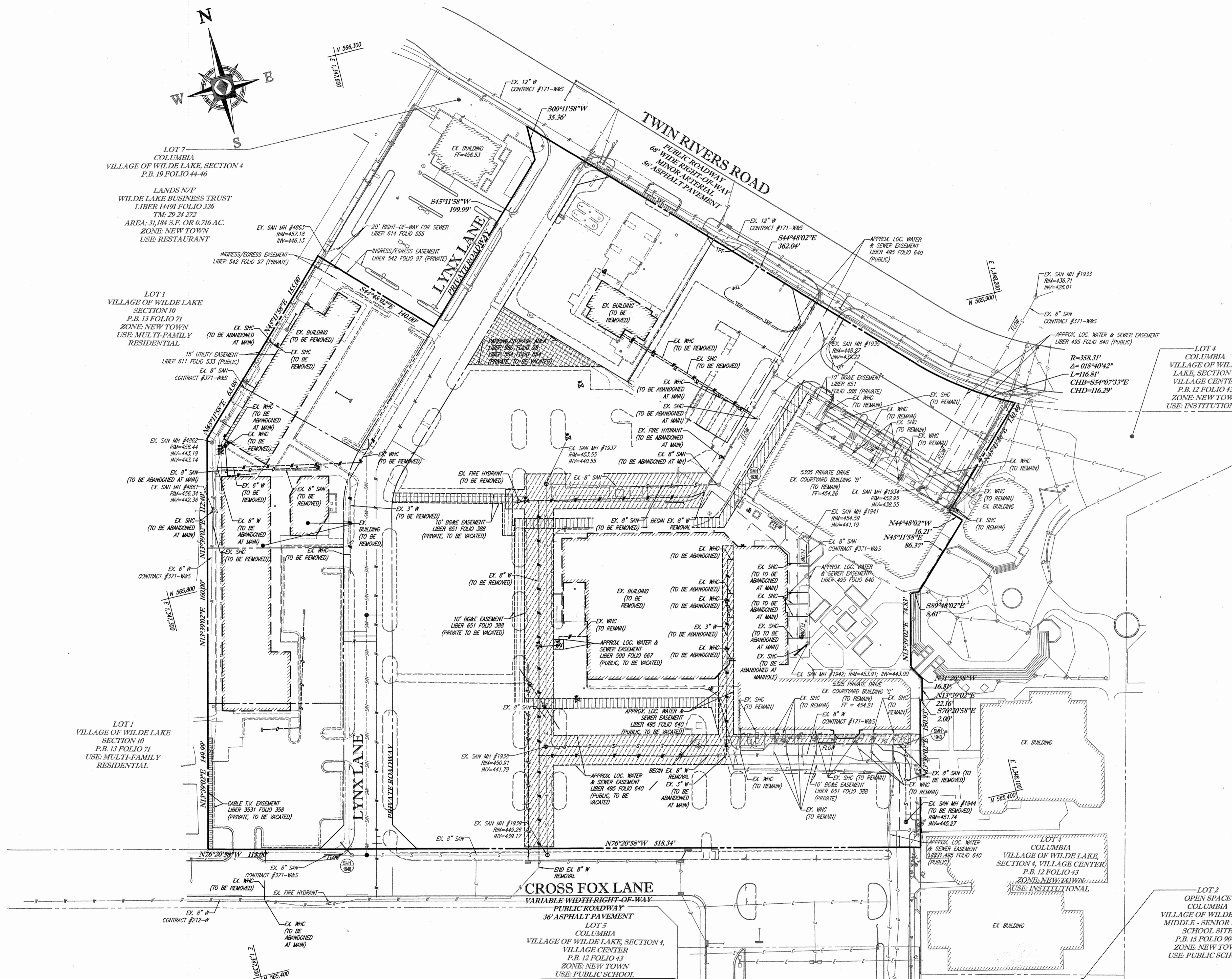
LANDS N/F
WILDE LAKE BUSINESS TRUST
LIBER 1491 FOLIO 326
TM: 29 24 272
AREA: 31,184 S.F. OR 0.716 AC.
ZONE: NEW TOWN
USE: RESTAURANT

LOT 1
VILLAGE OF WILDE LAKE
SECTION 10
P.B. 13 FOLIO 71
ZONE: NEW TOWN
USE: MULTI-FAMILY
RESIDENTIAL

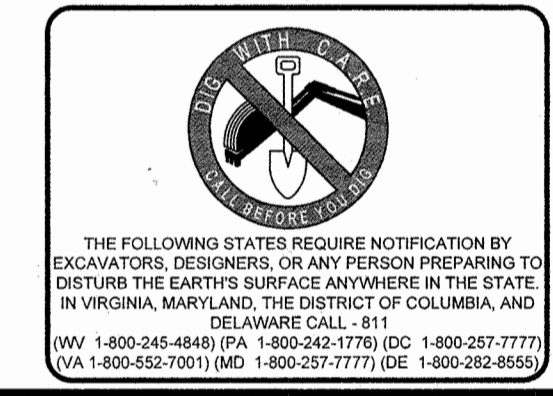
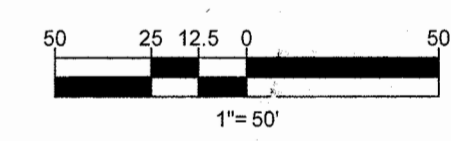
LOT 1
VILLAGE OF WILDE LAKE
SECTION 10
P.B. 13 FOLIO 71
USE: MULTI-FAMILY
RESIDENTIAL

LOT 4
COLUMBIA
VILLAGE OF WILDE LAKE, SECTION 4
VILLAGE CENTER
P.B. 12 FOLIO 43
ZONE: NEW TOWN
USE: INSTITUTIONAL

LOT 2
OPEN SPACE
COLUMBIA
VILLAGE OF WILDE LAKE
MIDDLE- SENIOR HIGH
SCHOOL SITE
P.B. 15 FOLIO 90-91
ZONE: NEW TOWN
USE: PUBLIC SCHOOL



PROFESSIONAL CERTIFICATION
I, MICHAEL J. GEBELL, 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. 44007, EXPIRATION DATE: 6/31/15



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
Steve Kern
CHIEF, BUREAU OF UTILITIES
DATE: 11/3/14

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
Paul Chubb
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 2.5.14

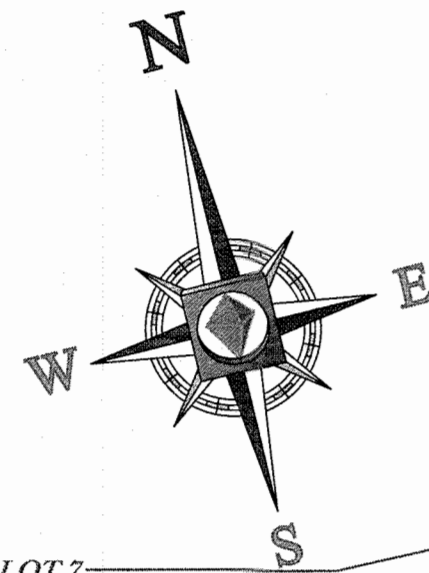
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Fax: (410) 821-7987
www.BohlerEngineering.com



DES: M.J.G.					
DRN: R.J.M.					
CHK: M.J.G.					
DATE: 7/2/13	1	12/23/13	REVISED PER COUNTY COMMENTS	MDD	PARCEL NO. 272 (PARCELS A-C)
REV:	DATE	DESCRIPTION	BY	600' SCALE MAP NO. 29	BLOCK NO. --

EXISTING CONDITIONS AND ABANDONMENT PLAN
PARCEL NO. 272 (PARCELS A-C)
BLOCK NO. --

WILDE LAKE VILLAGE CENTER REDEVELOPMENT
TAX MAP 29, PARCEL 272 (PARCELS A-C)
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 24-4769-D
SCALE: 1"=50'
SHEET: 5 OF 6



LOT 7
COLUMBIA
VILLAGE OF WILDE LAKE, SECTION 4
P.B. 19 FOLIO 44-46

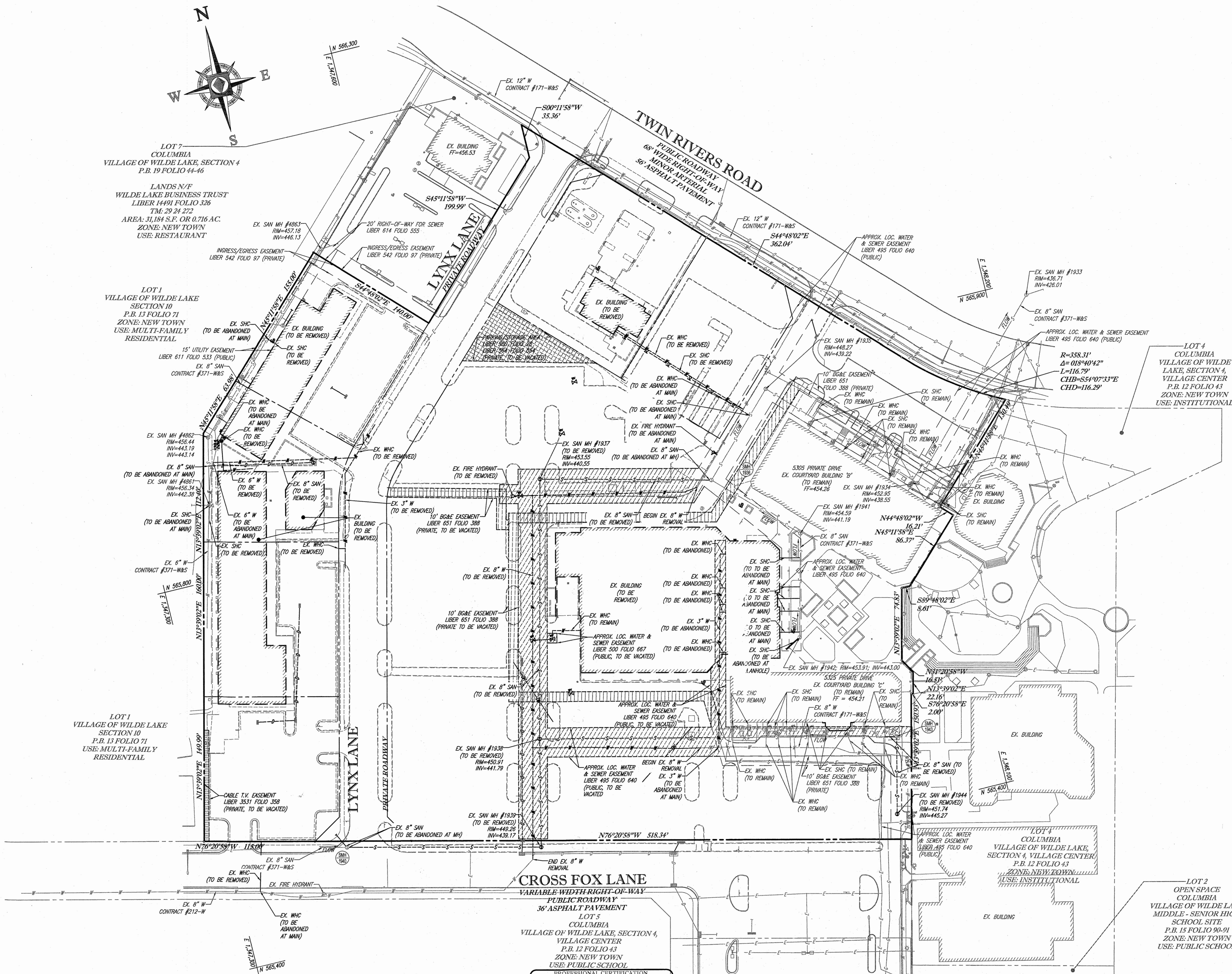
LANDS N/F
WILDE LAKE BUSINESS TRUST
LIBER 14491 FOLIO 326
TM: 29 24 272
AREA: 31,184 S.F. OR 0.716 AC.
ZONE: NEW TOWN
USE: RESTAURANT

LOT 1
VILLAGE OF WILDE LAKE
SECTION 10
P.B. 13 FOLIO 71
ZONE: NEW TOWN
USE: MULTI-FAMILY
RESIDENTIAL

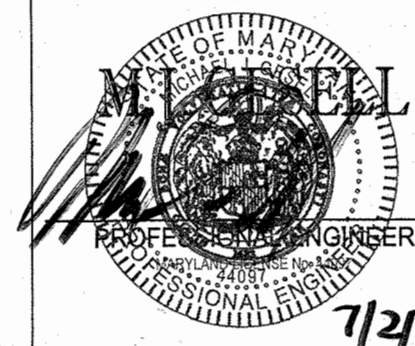
LOT 1
VILLAGE OF WILDE LAKE
SECTION 10
P.B. 13 FOLIO 71
USE: MULTI-FAMILY
RESIDENTIAL

LOT 4
COLUMBIA
VILLAGE OF WILDE LAKE, SECTION 4,
VILLAGE CENTER
P.B. 12 FOLIO 43
ZONE: NEW TOWN
USE: INSTITUTIONAL

LOT 2
OPEN SPACE
COLUMBIA
VILLAGE OF WILDE LAKE
MIDDLE - SENIOR HIGH
SCHOOL SITE
P.B. 13 FOLIO 90-91
ZONE: NEW TOWN
USE: PUBLIC SCHOOL



PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, HEREBY CERTIFY THAT THESE
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UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 44087, EXPIRATION DATE: 09/15

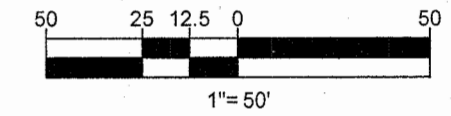


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Phone: (410) 821-7900
Fax: (410) 821-7987
www.BohlerEngineering.com

DES. M.J.G.					
DRN. R.J.M.					
CHK. M.J.G.					
DATE: 7/2/13	REV.	DATE	DESCRIPTION	BY	

EXISTING CONDITIONS AND ABANDONMENT PLAN

PARCEL NO. 272 (PARCELS A-C)
600' SCALE MAP NO. 29 BLOCK NO. --



THE FOLLOWING STATES REQUIRE NOTIFICATION BY
EXAMINING ENGINEERS ON ANY PERSON PREPARING TO
DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE
IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND
DELAWARE CALL -811
(WV 1-800-245-4848) (PA 1-800-242-2776) (DC 1-800-257-7777)
(VA 1-800-552-7001) (MD 1-800-557-7777) (DE 1-800-282-8550)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES DATE 7/1/13

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 7/2/13

WILDE LAKE VILLAGE CENTER REDEVELOPMENT
TAX MAP 29, PARCEL 272 (PARCELS A-C)
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 24-4769-D

SCALE 1"=50'
SHEET 6 OF 6