

QUANTITIES				
ITEMS	ESTIMATED QUANTITIES	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
WATER				
8" WATER(PVC C900 DR18)	2,470 L.F.			
6" WATER(PVC C900 DR18)	227 L.F.			
FIRE HYDRANT W/VALVE	8 EACH			
8"x8" TEE	1 EACH			
8"x6" TEE	16 EACH			
8" VALVE	5 EACH			

NOTE: 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)

FINAL WATER EXTENSIONS THE WEXLEY AT 100 - PH II PARCELS A, C & D 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO.: 14-5045-D

BENCH MARKS	
HO. CO. #37EB (NAD '83)	ELEV. 385.309
STANDARD DISC ON CONCRETE MONUMENT MARSHALEE RD NEAR LYNDWOOD SHOPPING CTR.	
N 562552.4951	E 1375430.8059
HO. CO. #37EC (NAD '83)	ELEV. 346.153
STANDARD DISC ON CONCRETE MONUMENT MARSHALEE RD NEAR LYNDWOOD SHOPPING CTR.	
N 561099.8288	E 1375580.4112



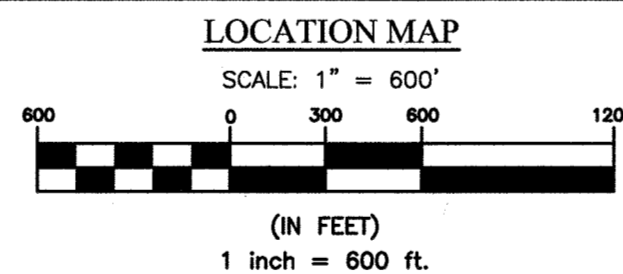
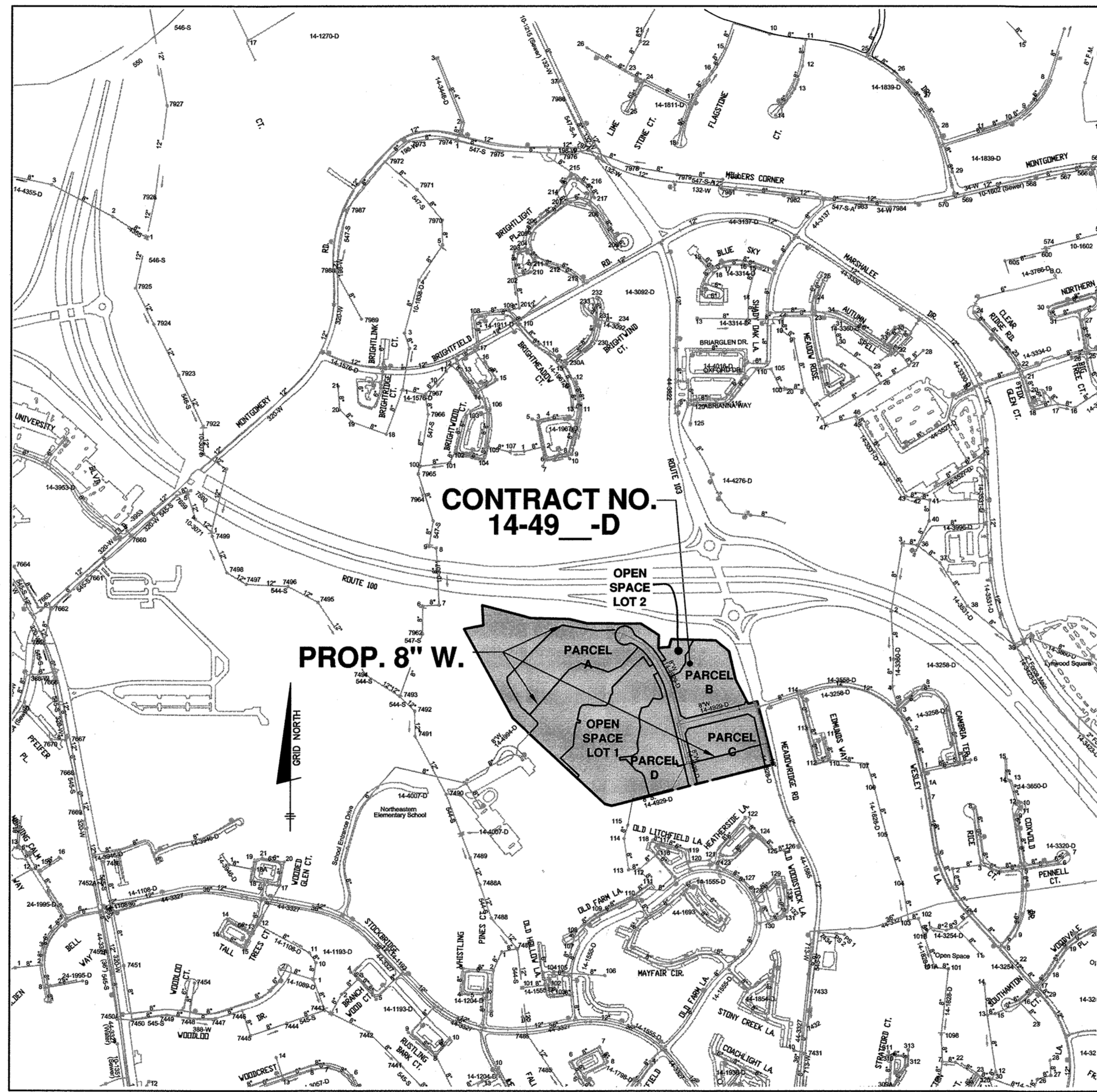
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PUBLIC WATER PLAN
3	PUBLIC WATER PLAN
4	PUBLIC WATER PROFILES

HORIZONTAL WATER APPURTENANCE CHART WATER MAIN 'A'			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
REMOVE 8" CAP & BUTTRISS	WL STA. 0+00.0	560474.8079	1372800.9314
8" 1/8 HORIZONTAL BEND	WL STA. 0+66.0	560522.2245	1372846.7585
8" 1/8 HORIZONTAL BEND	WL STA. 0+80.4	560536.7075	1372846.5117
8" 2' DEFLECTION	WL STA. 1+20.7	560565.3804	1372818.2161
8"x 8" TEE	WL STA. 1+52.2	560566.5816	1372794.9178
8" 1/32 HORIZONTAL BEND	WL STA. 2+05.5	560622.3493	1372755.6131
8" 1/32 HORIZONTAL BEND	WL STA. 2+43.4	560652.8624	1372733.0777
8" 2' DEFLECTION	WL STA. 3+58.6	560754.1396	1372678.1841
8" 3' DEFLECTION	WL STA. 3+70.9	560765.2949	1372672.8924
8" 1/16 HORIZONTAL BEND	WL STA. 3+89.4	560781.5744	1372665.7504
8" 1/8 HORIZONTAL BEND	WL STA. 4+12.4	560804.5652	1372665.4890
8"x 6" TEE	WL STA. 4+34.2	560820.6284	1372681.1911
FIRE HYDRANT 1	OFFSET 16.8' LT	560832.4843	1372669.1173
8"x 8" TEE	WL STA. 4+95.1	560864.1819	1372723.7654
8"x 8" TEE	WL STA. 6+30.3	560961.3895	1372817.3913
FIRE HYDRANT 2	OFFSET 16.4' RT	560949.3244	1372829.8986
8"x 6" TEE	WL STA. 6+45.4	560971.2350	1372828.4117
8"x 6" TEE	WL STA. 7+13.7	561020.6215	1372876.6879
8" 1/16 HORIZONTAL BEND	WL STA. 8+13.3	561091.8012	1372946.2673
8" 1/16 HORIZONTAL BEND	WL STA. 8+42.0	561092.1278	1372974.9953
8"x 6" TEE	WL STA. 8+83.4	561084.5749	1373015.3591
FIRE HYDRANT 3	OFFSET 17.8' LT	561102.1975	1373018.6106
8" 1/32 HORIZONTAL BEND	WL STA. 10+14.0	561060.5108	1373143.9608
8" X 6" TEE	WL STA. 10+21.0	561060.5900	1373150.9265
8" 1/32 HORIZONTAL BEND	WL STA. 10+78.7	561061.2464	1373208.6620
8" 1/32 HORIZONTAL BEND	WL STA. 11+44.4	561074.8029	1373272.9847
REMOVE 8" CAP & BUTTRISS	WL STA. 11+54.2	561069.6109	1373300.7313

HORIZONTAL WATER APPURTENANCE CHART WATER MAIN 'B'			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
8"x8" TEE	WL STA. 0+00.0	560586.5818	1372794.9178
8"x6" TEE	WL STA. 0+94.3	560656.2909	1372858.6157
8"x6" TEE	WL STA. 2+14.5	560745.1560	1372939.2324
FIRE HYDRANT 4	OFFSET 14.6' RT.	560735.6312	1372950.3337
8"x6" TEE	WL STA. 3+25.9	560827.5569	1373014.2235
8"x6" TEE	WL STA. 4+02.7	560884.4041	1373065.9634
FIRE HYDRANT 5	OFFSET 14.1' LT.	560893.9496	1373055.5579
8" 1/8 HORIZONTAL BEND	WL STA. 4+14.1	560852.9875	1373037.7535
8" 1/8 HORIZONTAL BEND	WL STA. 4+28.2	560893.5079	1373087.7425
8" 1/8 HORIZONTAL BEND	WL STA. 5+90.2	560784.3879	1373207.4591
8" 1/8 HORIZONTAL BEND	WL STA. 6+37.7	560786.5862	1373254.9321
8"x6" TEE	WL STA. 7+57.2	560874.8607	1373335.3928
FIRE HYDRANT 6	OFFSET 14.8 LT.	560884.6806	1373324.6021
8" REMOVE CAP & BUTTRISS	WL STA. 8+95.7	560977.1983	1373428.6718

HORIZONTAL WATER APPURTENANCE CHART WATER MAIN 'C'			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
8" REMOVE CAP & BUTTRISS	WL STA. 0+00.0	560303.4591	1373748.0452
8"x6" TEE	WL STA. 0+65.8	560319.2663	1373811.9127
FIRE HYDRANT 7	OFFSET 14.2' RT	560305.4451	1373815.3254
8"x6" TEE	WL STA. 1+19.5	560332.1574	1373863.9981
8"x6" TEE	WL STA. 2+94.6	560374.2336	1374034.0026
8" 1/16 HORIZONTAL BEND	WL STA. 3+18.7	560380.0342	1374057.4394
8" 1/16 HORIZONTAL BEND	WL STA. 3+39.4	560388.8053	1374076.1201
8"x6" TEE	WL STA. 3+70.1	560396.1409	1374105.7990
FIRE HYDRANT 8	OFFSET 19.0' LT	560414.6215	1374101.1850
8" REMOVE CAP & BUTTRISS	WL STA. 3+11.0	560405.9715	1374145.4788

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
PARCEL	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	6011 OTTERBEIN LANE		
2	6001 OTTERBEIN LANE		
3	6021 OTTERBEIN LANE		
4	6081 OTTERBEIN LANE		
5	6031 OTTERBEIN LANE		
6	6041 OTTERBEIN LANE		
7	6071 OTTERBEIN LANE		
8	6051 OTTERBEIN LANE		
9	6061 OTTERBEIN LANE		



LEGEND	
EXIST. WATER MAIN	
EXIST. SEWER MAIN	
EXIST. SEWER MANHOLE	
EXIST. STORM DRAIN	
PROP. FIRE HYDRANT	
PROP. VALVE	
PROP. WATER MAIN	

TYPE OF BUILDING:	
NUMBER OF UNITS:	392
NUMBER OF WHO'S:	0
NUMBER OF SHC'S:	0
DRAINAGE AREA:	PATAPCO
TREATMENT PLANT:	DEEP RUN
WATER ZONE:	550
TEST GRADIENT:	2.00 @ 2.7

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

John R. Clifton 7/10/13
HOWARD SOIL CONSERVATION DISTRICT

SEMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER APPROVED DEVELOPMENT PLANS (SDP-18-029).

John R. Clifton 7-10-13
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Christy J. ... 7/15/13
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS

2480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21103
(P) 410-465-6105 (F) 410-465-6644
WWW.BC-CIVILENGINEERING.COM

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. 28767, Expiration Date: 01/01/19

Alvin A. Miller 7/10/13
PROFESSIONAL ENGINEER

DES:	AAM/CO
DRN:	LD/CO
CHK:	AAM
DATE:	JULY 2018
BY:	NO.
NO.	
REVISIONS:	
DATE:	

FINAL PUBLIC WATER TITLE SHEET

600 SCALE MAPS: 37

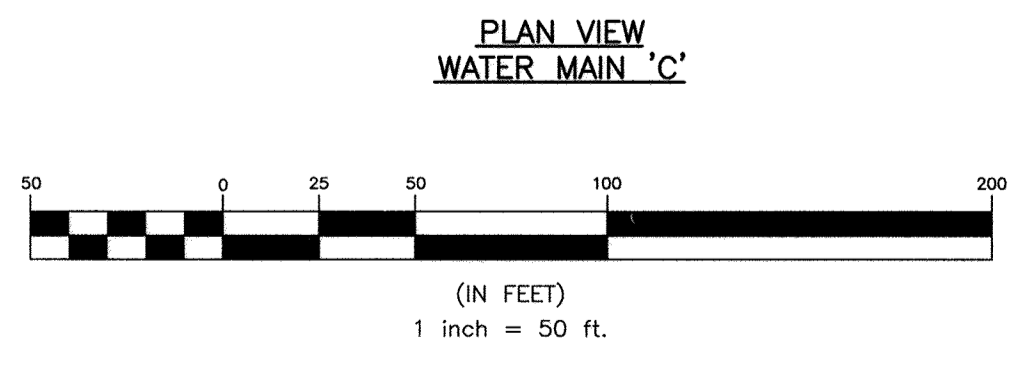
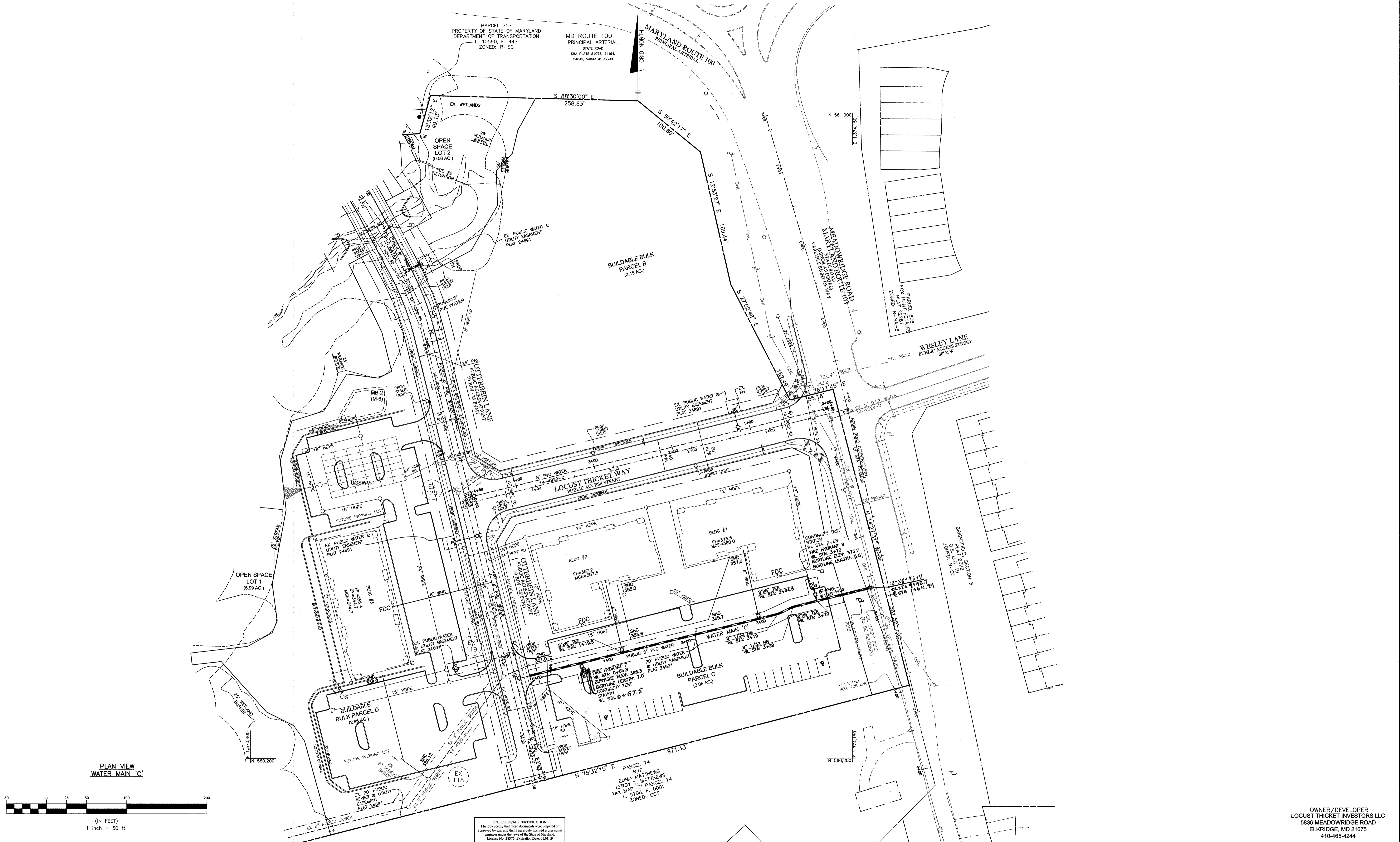
THE WEXLEY AT 100
PHASE II WATER
TAX MAP 37, GRID 9, PARCELS A, C & D
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

CONTRACT No. 14-5045-D

SCALE: AS SHOWN
SHEET NO. 1 OF 4

OWNER/DEVELOPER
LOCUST THICKET INVESTORS LLC
5838 MEADOWRIDGE ROAD
ELKRIDGE, MD 21075
410-465-4244

NOTE:
CONTRACT 14-4994 MUST BE PLACED IN SERVICE PRIOR TO THE IN-SERVICE DATE OF THIS CONTRACT.



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. 23176, Expiration Date: 01/01/19



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043
(P) 410-465-6100 (F) 410-465-6644
WWW.BE-CVLENGINEERING.COM

7/10/18
DATE

7/13/18
DATE

DES:	AAM/JCO			
DRN:	LD/JCO			
CHK:	AAM			
DATE:	JULY 2018			
AM BY:	NO.	1	ADD WATER CONNECTION, MAIN C TO MD 103	7/20/18
REVISIONS				

FINAL PUBLIC WATER PLAN

600 SCALE MAPS: 37

THE WEXLEY AT 100
PHASE II WATER
TAX MAP 37, GRID 9, PARCEL A, C & D
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-5045-D

OWNER/DEVELOPER
LOCUST THICKET INVESTORS LLC
5836 MEADOWRIDGE ROAD
ELK RIDGE, MD 21075
410-465-4244

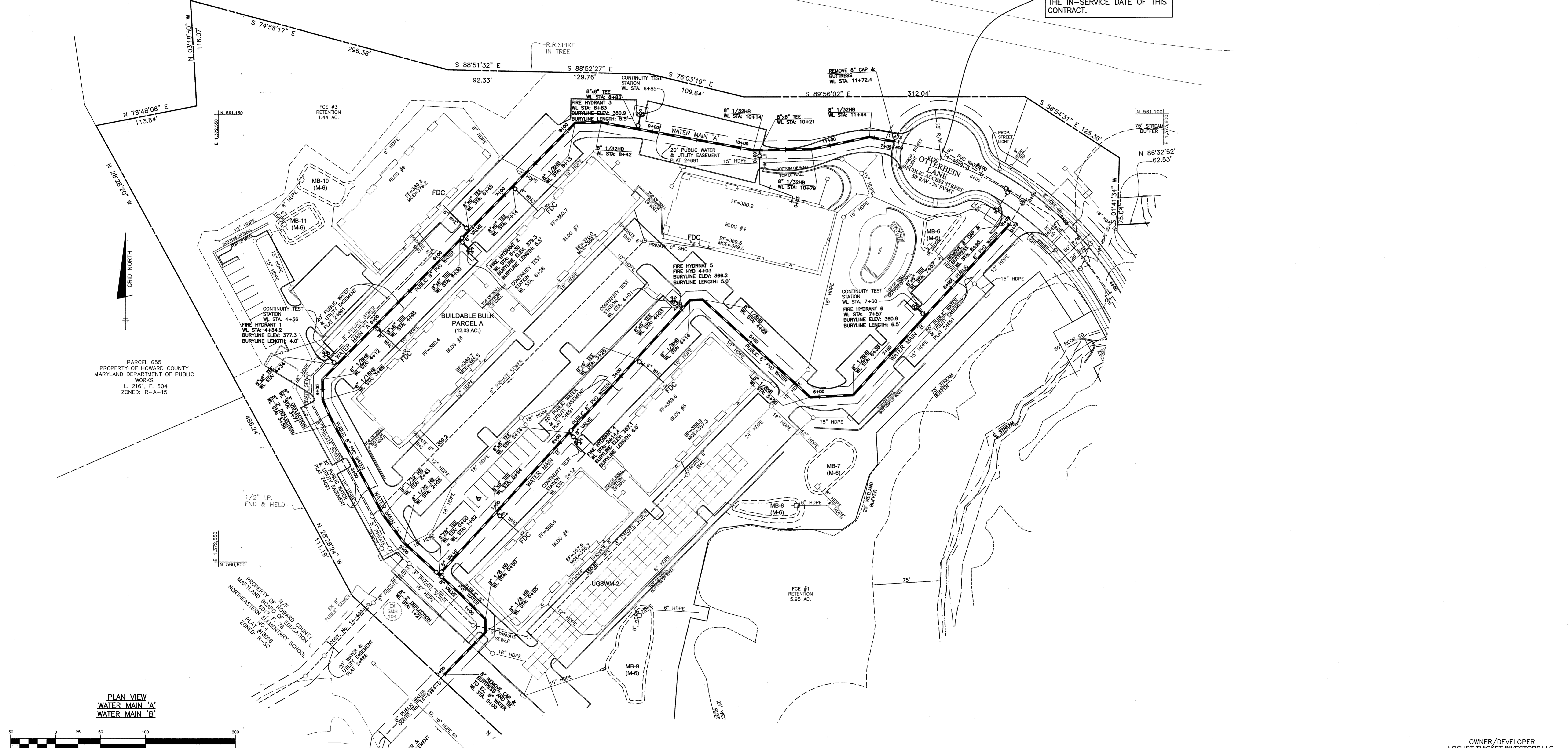
SCALE:
AS SHOWN

SHEET NO.
2 OF 4

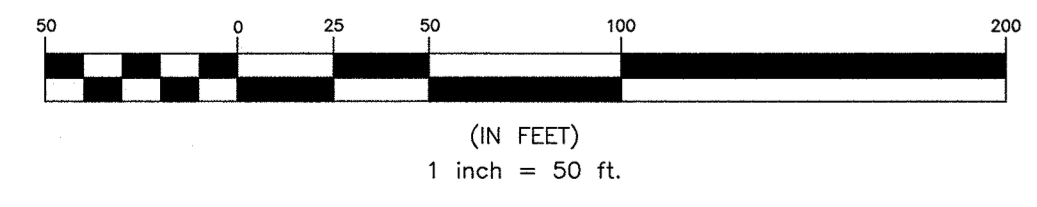
MD ROUTE 100
PRINCIPAL ARTERIAL
STATE ROAD
SHA PLATS 54073, 54194,
54841, 54843 & 93309

MARYLAND ROUTE 100
PRINCIPAL ARTERIAL

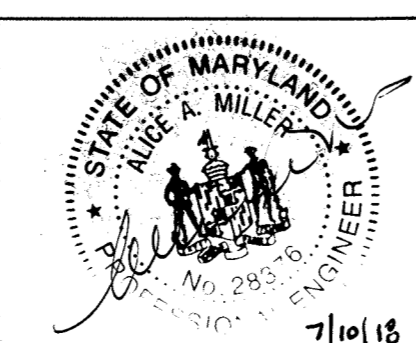
NOTE:
CONTRACT 14-4994 MUST BE
PLACED IN SERVICE PRIOR TO
THE IN-SERVICE DATE OF THIS
CONTRACT.



PLAN VIEW
WATER MAIN 'A'
WATER MAIN 'B'



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. 28796; Expiration Date: 01/01/19



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
7-10-18
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
7/13/18
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21104
(P) 410-465-8105 (F) 410-465-6844
WWW.BE-CIVILENGINEERING.COM

DES:	AAM/JCO				
DRN:	LD/JCO				
CHK:	AAM				
DATE:	JULY 2018				
BY:	NO.				
REVISIONS:					
DATE:					

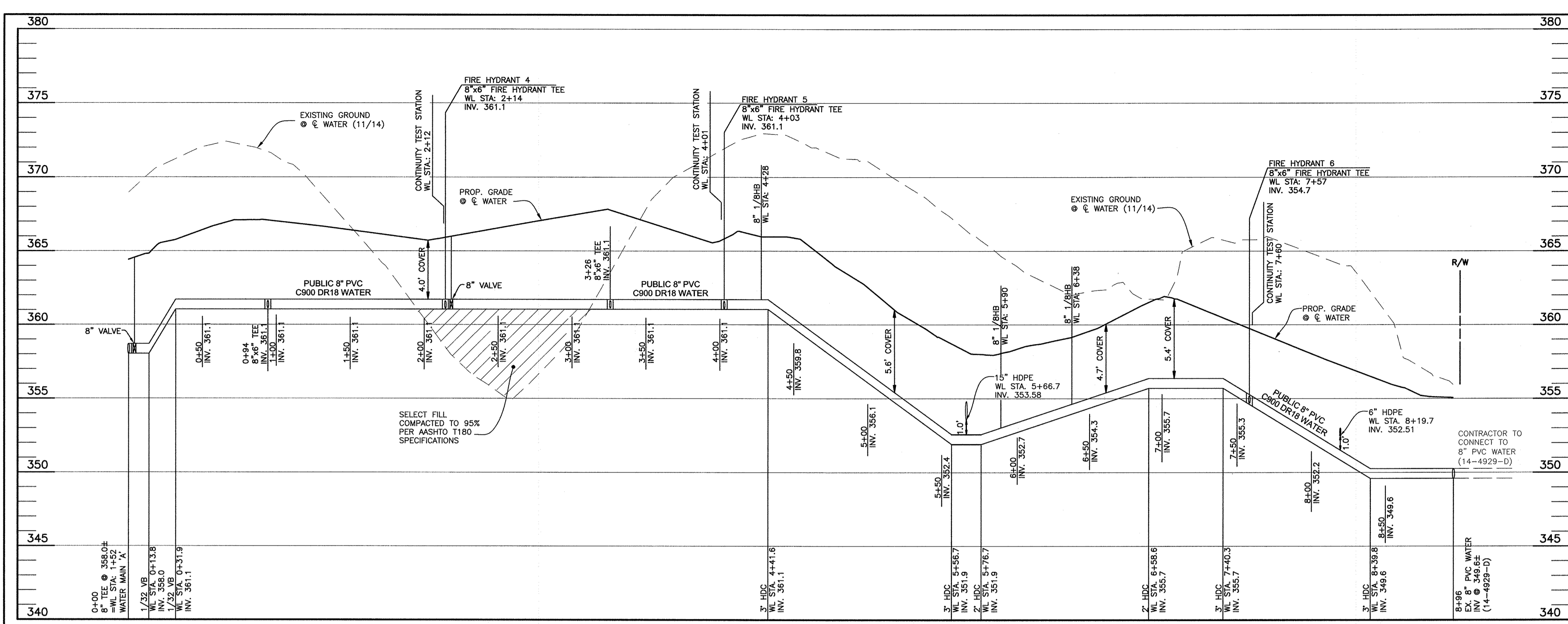
**FINAL PUBLIC
WATER PLAN**

THE WEXLEY AT 100
PHASE II WATER
TAX MAP 37, GRID 9, PARCEL A, C & D
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-5045-D

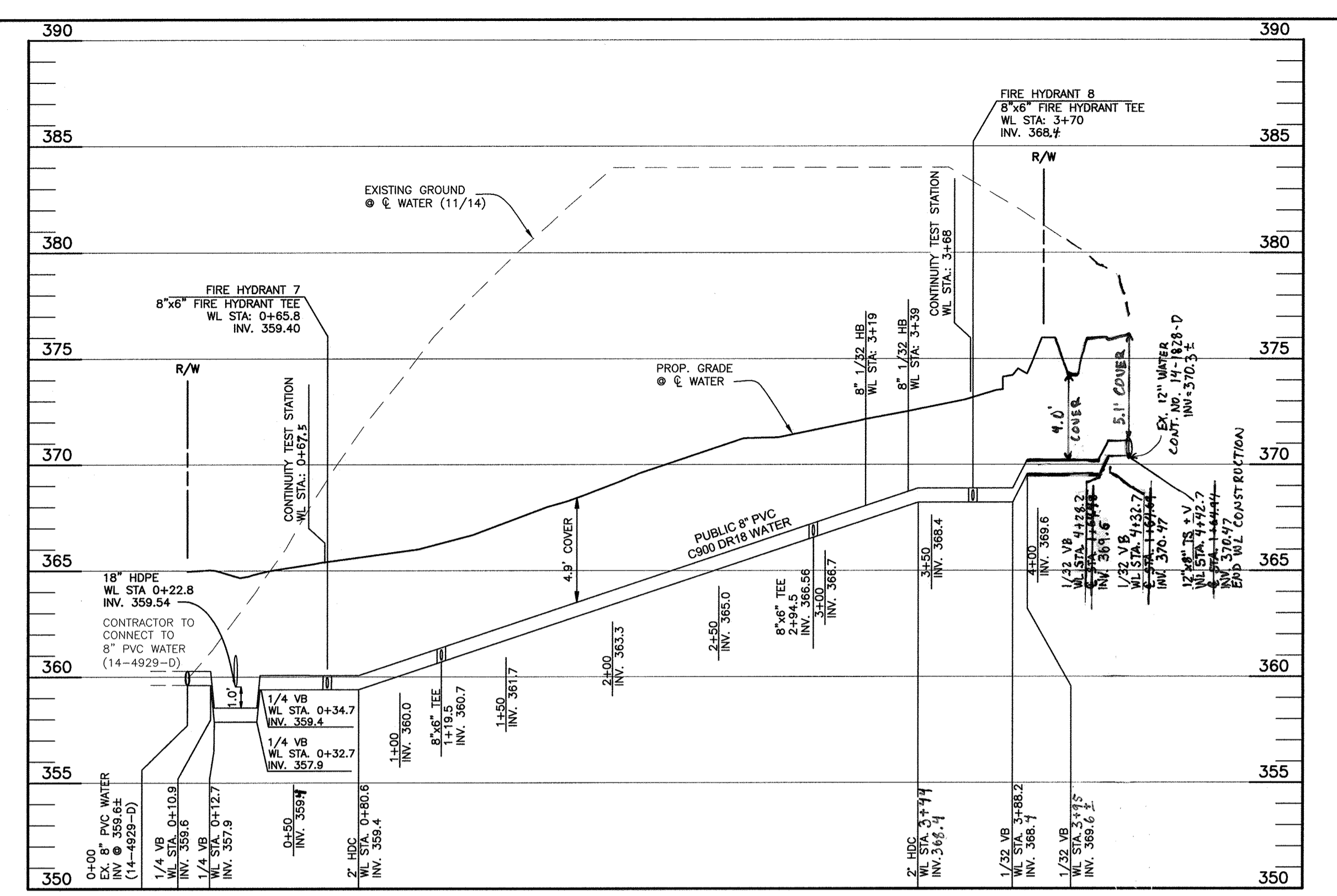
OWNER/DEVELOPER
LOCUST THicket INVESTORS LLC
5836 MEADOWRIDGE ROAD
ELK RIDGE, MD 21075
410-465-4244

SCALE:
AS SHOWN

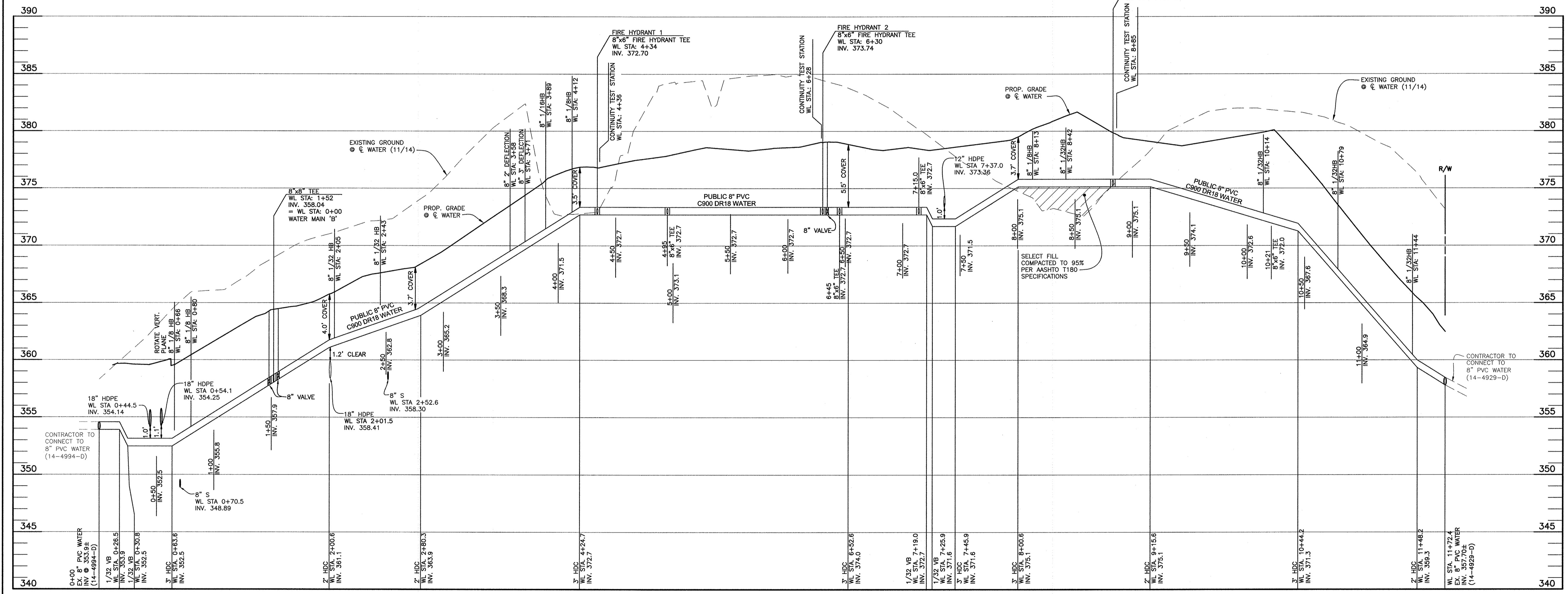
SHEET NO.
3 OF 4



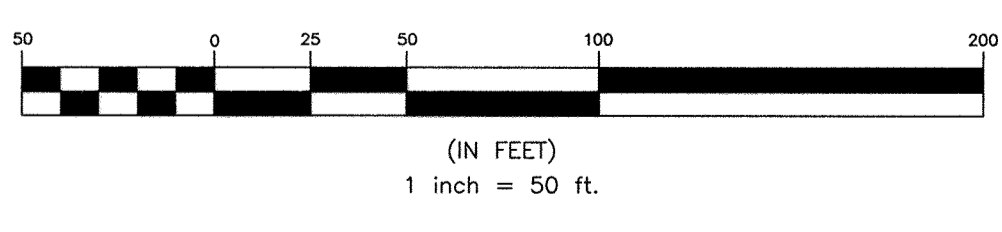
WATER MAIN B
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'



WATER MAIN C
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'

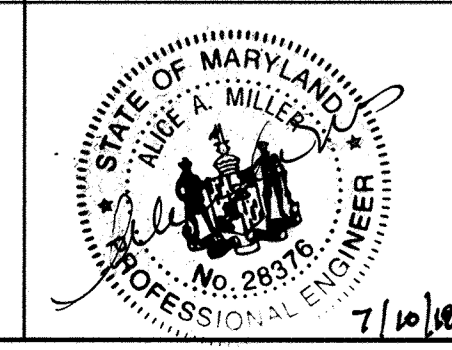


WATER MAIN A
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'



NOTE:
CONTRACT 14-4994 MUST BE
PLACED IN SERVICE PRIOR TO
THE IN-SERVICE DATE OF THIS
CONTRACT.

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. 28376; Expiration Date: 01.01.19



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES
DATE: 7-10-18

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/13/18

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLICOTT CITY, MARYLAND 21043
(P) 410-465-8108 (F) 410-465-6644
WWW.BE-CIVILENGINEERING.COM

DES:	AAM/JCO				
DRN:	LD/JCO				
CHK:	AAM				
DATE:	JULY 2018				
BY:	AAM	1	ADD WATER CONNECTION, MAIN C TO MD 103	9/2/18	
	NO.		REVISIONS	DATE	

FINAL PUBLIC WATER PROFILES
600 SCALE MAPS: 37

THE WEXLEY AT 100
PHASE II WATER
TAX MAP 37, GRID 9, PARCEL A, C & D
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-5045-D

OWNER/DEVELOPER
LOCUST THICKET INVESTORS LLC
5836 MEADOWRIDGE ROAD
ELKRIDGE, MD 21075
410-465-4244

SCALE:
AS SHOWN
SHEET NO.
4 OF 4