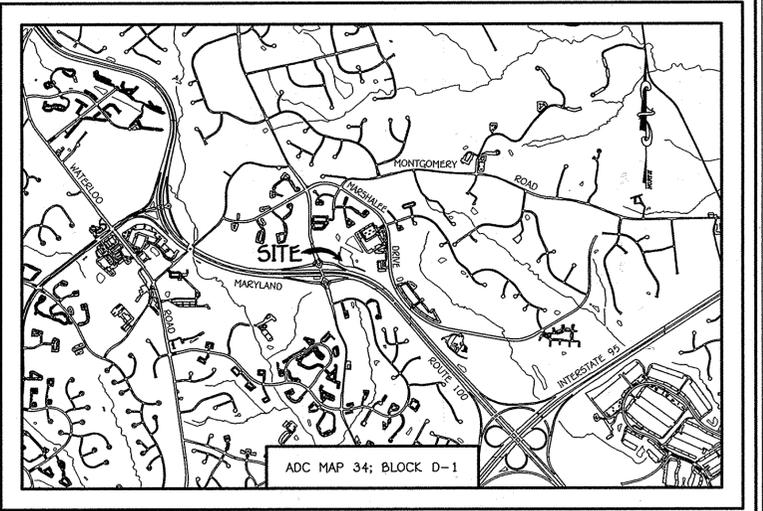
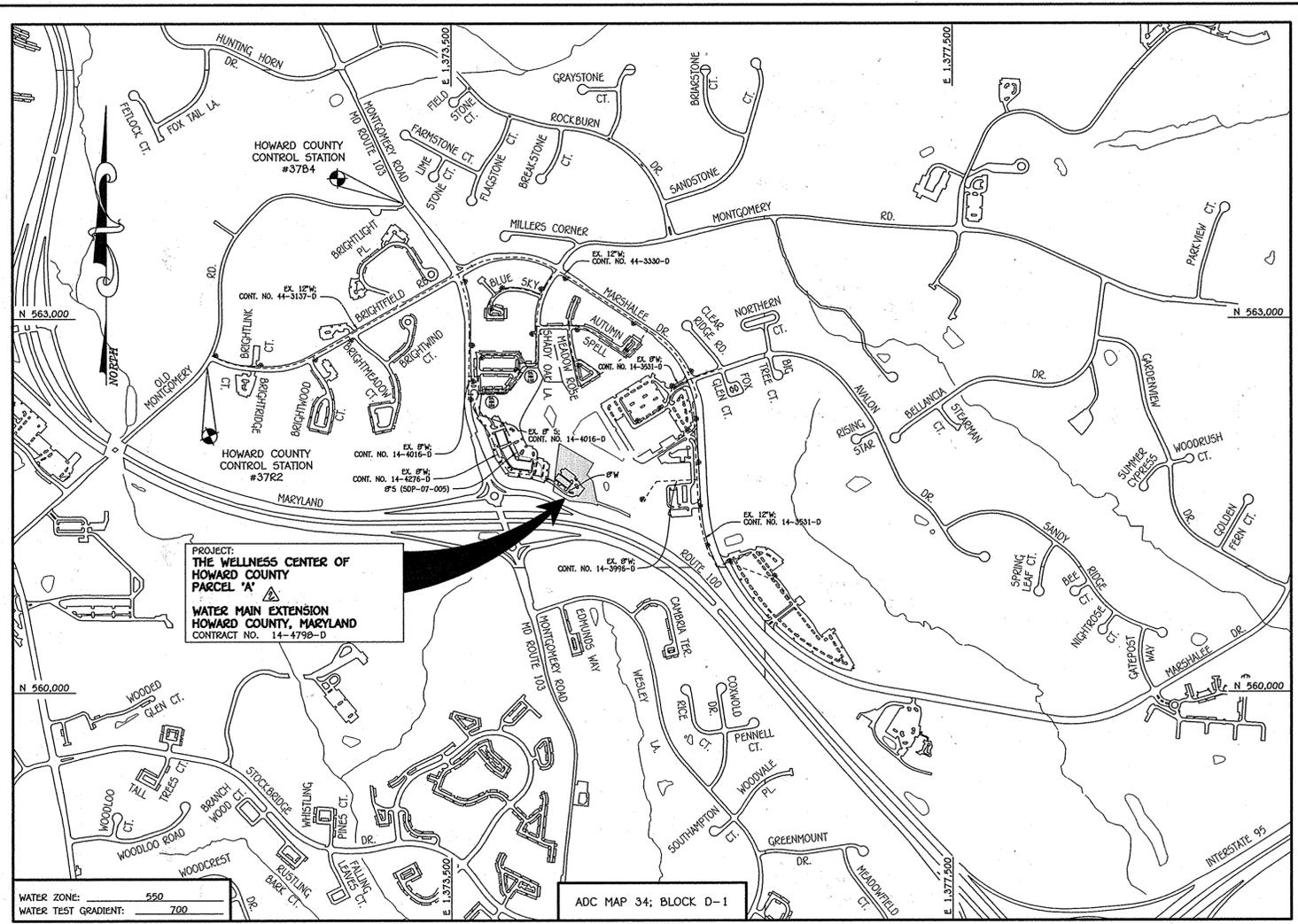


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
			TYPE	
8" W, 20' PVC	208 L.F.			
8" W, 10' PVC	11 L.F.			
3" DEFLECTION COUPLING	1 EACH			
1/32 H.B.	1 EACH			
8" X 8" TEE	1 EACH			
8" X 8" CROSS	1 EACH			
8" VALVE	3 EACH			
6" VALVE	1 EACH			
FIRE HYDRANT	1 EACH			
CONTINUITY TEST STATION	1 EACH			
8" PLUG & BUTTRISS	4 EACH			
CLEAN-OUT	1 EACH			
#4 GIC	10 LF			

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #3784 - HORIZONTAL - (NAD '83)
 (LOCATED ALONG THE SOUTH SIDE OF ROUTE 103 AT OLD MONTGOMERY ROAD, APPROX. 29.7' OFF THE EDGE OF PAVING)
 N 563,928.5011
 E 1,373,109.0962
 ELEVATION = 401.318 - VERTICAL - (NAVD '80)

B.M.#2 - HOWARD COUNTY CONTROL STATION #3782 - HORIZONTAL - (NAD '83)
 (LOCATED ALONG THE SOUTH SIDE OF OLD MONTGOMERY ROAD, JUST SOUTH OF BRIGHTFIELD ROAD)
 N 562,611.4397
 E 1,371,554.4728
 ELEVATION = 399.654 - VERTICAL - (NAVD '80)



VICINITY MAP
 SCALE: 1" = 2000'

GENERAL NOTES

- PART A
- 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 MAY, 2004 BY PATTON, HARRIS RUST & ASSOCIATES.
 - 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. 3784 & NO. 3782. ALL VERTICAL CONTROLS ARE BASED ON NAVD 1983 VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
 - 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 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 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 SITE.
 - 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 DRAWING. 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 (CONTRACTOR SERVICES)	410-637-8713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-9533
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.
 - 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 THE 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 LACKING 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.

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

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.

Paul W. Keibel, FOR:
100 OVERLOOK, LLC. 09-24-13
 SIGNATURE OF DEVELOPER DATE

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.

Paul W. Keibel
 SIGNATURE OF ENGINEER 09/24/13
 DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 309 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE SITE DEVELOPMENT PLAN, SDP-13-065.

Paul W. Keibel, FOR:
100 OVERLOOK, LLC. 09-24-13
 SIGNATURE OF DEVELOPER DATE

SDP-13-065

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

APPROVED:
John R. Robertson 10/4/13
 HOWARD SOIL CONSERVATION DISTRICT DATE

TYPE OF BUILDING: COMMERCIAL	
NUMBER OF PARCELS:	-1-
NO. OF WATER HOUSE CONNECTIONS:	-1-
NO. OF SEWER HOUSE CONNECTIONS:	-0-
SEWER SHED:	PATAPECO
TREATMENT PLANT:	PATAPECO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE

LOCATION MAP

SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
 F-14- (RECORD PLAT)
 SDP-13-065

CONTRACT NO. 14-4798-D
THE WELLNESS CENTER OF HOWARD COUNTY PARCEL 'A'

WATER MAIN EXTENSION HOWARD COUNTY, MARYLAND

LEGEND	
SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
○	EX. SEWER MANHOLE
---	EX. WATER, SEWER & UTILITY EASEMENT
⊙	EX. FIRE HYDRANT
○	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
○	PROP. SEWER MANHOLE
---	PROP. WATER, SEWER & UTILITY EASEMENT
---	PROP. WHC
---	PROP. SHC
○	PROP. FIRE HYDRANT
○	PROP. VALVE

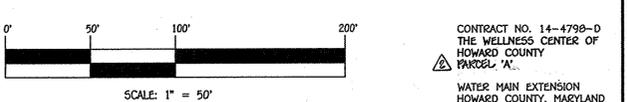
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE 5/7/16/16.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10722 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2225

Paul W. Keibel
 PAUL W. KEIBEL

DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.C.C.
DATE:	SEPTEMBER, 2013
REVISION:	1. REVISE QUANTITY TO REFLECT REVISIONS BY ANNOTATED WORK ORDER DATED 7/9/13
REVISION:	2. ADD CLEAN-OUT & ESTIMATED 1 EACH, TO QUANTITIES
DATE:	3/21/14

DEVELOPER	
100 OVERLOOK, LLC. c/o LAND DESIGN AND DEVELOPMENT, INC. 5300 DORSEY HALL DRIVE SUITE 102 ELICOTT CITY, MARYLAND 21043 443-367-0422	
600' SCALE MAP NO. 37	BLOCK NO. 10
F.C.C. WORK ORDER NO. 04008-4001	
FILE NAME:	WATER MAIN EXTENSIONS PLAN



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Silvia C. Lee 9/30/13
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

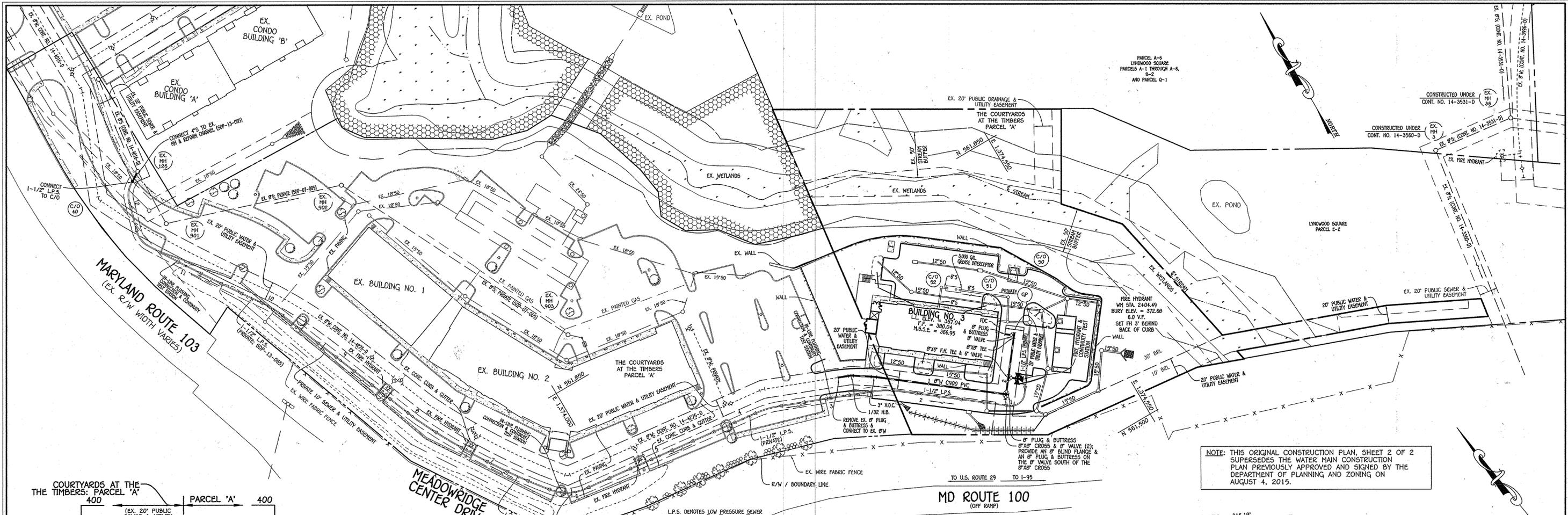
John R. Robertson 10/4/13
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CONTRACT NO. 14-4798-D
 THE WELLNESS CENTER OF HOWARD COUNTY PARCEL 'A'

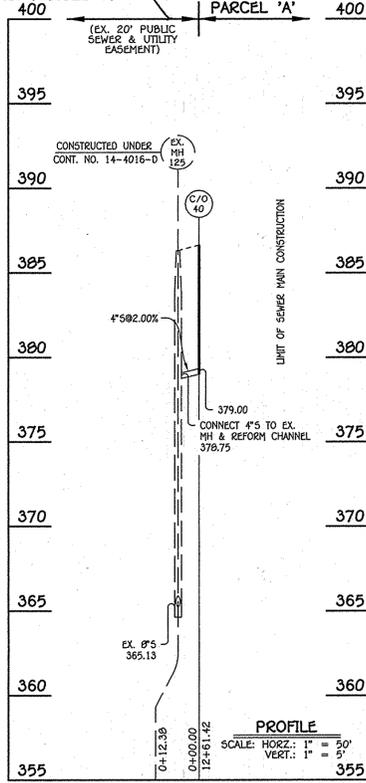
WATER MAIN EXTENSION HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

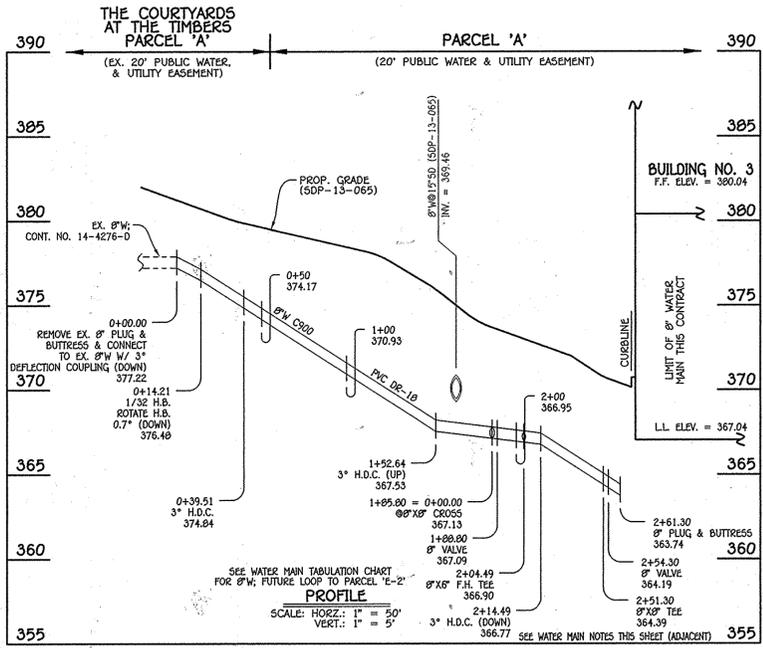
SHEET 1 OF 2



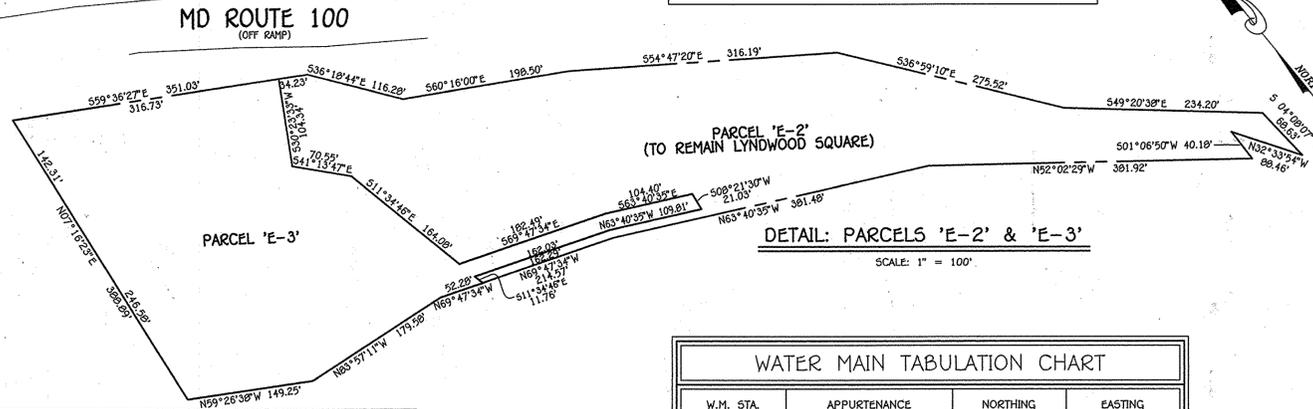
COURTYARDS AT THE TIMBERS: PARCEL 'A'



4" SEWER MAIN



8" WATER MAIN: BUILDING NO. 3



NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 2 SUPERSEDES THE WATER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON AUGUST 4, 2015.

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: BUILDING NO. 3			
0+00.00	EX. 8" PLUG & BUTTRESS	561708.11	1374275.13
0+14.21	1/32 H.B.	561702.90	1374228.34
0+39.51	3" H.D.C.	561688.86	1374309.41
1+85.80	8" X 8" CROSS	561598.85	1374424.72
1+88.80	8" VALVE	561601.21	1374426.56
2+04.49	8" X 8" F.H. TEE	561613.57	1374436.22
2+51.30	8" X 8" TEE	561650.48	1374465.02
2+54.30	8" VALVE	561652.32	1374462.66
2+61.30	8" PLUG & BUTTRESS	561656.63	1374457.14

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: FUTURE LOOP TO PARCEL E-2			
0+00.00	8" X 8" CROSS	561598.85	1374424.72
0+03.00	8" VALVE W/ BLIND FLANGE	561596.48	1374422.87
0+06.00	8" PLUG & BUTTRESS	561594.12	1374421.03

4" SEWER MAIN TABULATION CHART

L.P.S. STA.	APPURTENANCE	NORTHING	EASTING	RIM ELEVATION
4" SEWER MAIN				
0+12.38	C/O 40	562287.20	1373717.67	306.63

- WATER MAIN NOTES:
- ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, DR-18.
 - 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.
 - ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Walter Coen
CHIEF, BUREAU OF UTILITIES

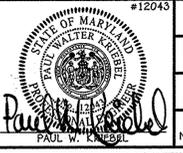
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Joseph Panelli
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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 7/16/16.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21036
(410) 461-2895



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: NOVEMBER, 2015

WATER MAIN EXTENSION
PLAN, PROFILE & CHARTS

600' SCALE MAP NO. 37 BLOCK NO. 10
F.C.C. WORK ORDER NO. 04028-4001
FILE NAME: WATER MAIN EXTENSIONS PLAN

THE WELLNESS CENTER OF HOWARD COUNTY
P/O PARCEL 'A'
RETAIL / RESTAURANT
WATER MAIN EXTENSION
CONTRACT NO. 14-4798-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 2

I:\2014\04028\dwg\AL\LYNDWOOD SQUARE\Water & Sewer Contract 14-4798-D\Final\Redline 2.dwg, 11/25/2015 1:59:28 PM