

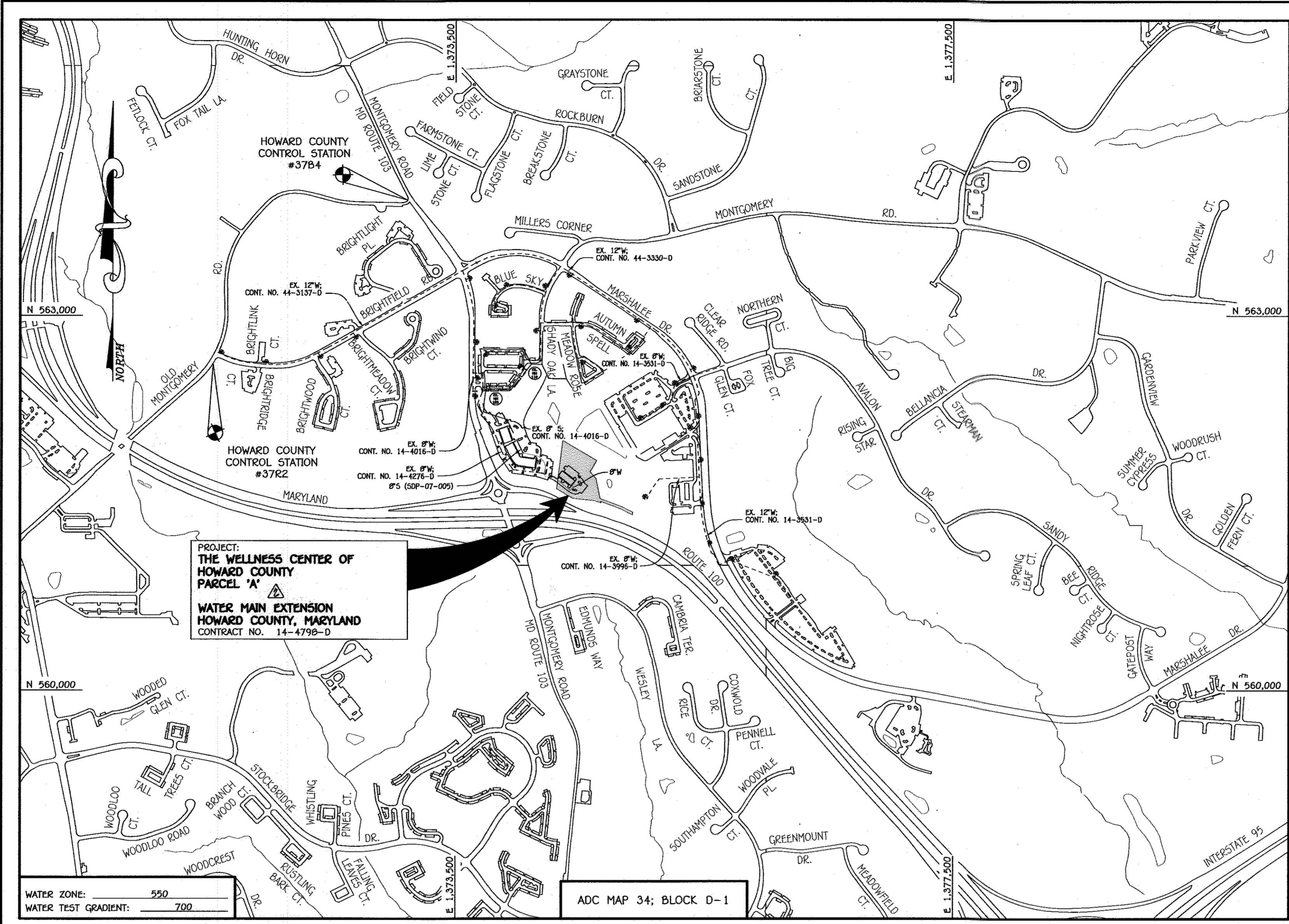
QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" W/ 1200 PVC	208 L.F.	253'	C-200	National
6" W/ 1200 PVC	11 L.F.	10'	C-200	National
3" DEFLECTION COUPLING	1 EACH	0		
1/32 H.B.	1 EACH	1	Epoxy DI	Starpipe
8" X 8" TEE	1 EACH	1	Epoxy DI	Starpipe
8" X 8" TEE	1 EACH	1	Epoxy DI	Starpipe
8" X 8" CROSS	1 EACH	1	Epoxy DI	Starpipe
8" VALVE	3 EACH	3	Epoxy DI	Mueller
6" VALVE	1 EACH	1	Epoxy DI	Mueller
FIRE HYDRANT	1 EACH	1	RCP	Horne Concrete
CONTINUITY TEST STATION	1 EACH	1	RCP	Horne Concrete
8" PLUG & BUTTRESS	4 EACH	3 Cap 1 Plug	Epoxy DI	Starpipe
CLEAN-OUT	1 EACH	1		
2" SHC	10 L.F.	10'	SDR-35	National

NAME OF UTILITY CONTRACTOR: **CCS Foreman Rick**  
 SURVEY & DRAFTING DIVISION AS-BUILT DATE:

**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 563,928.9811  
 E 1,373,109.0962  
 ELEVATION = 401.318 - VERTICAL - (NAVD '88)

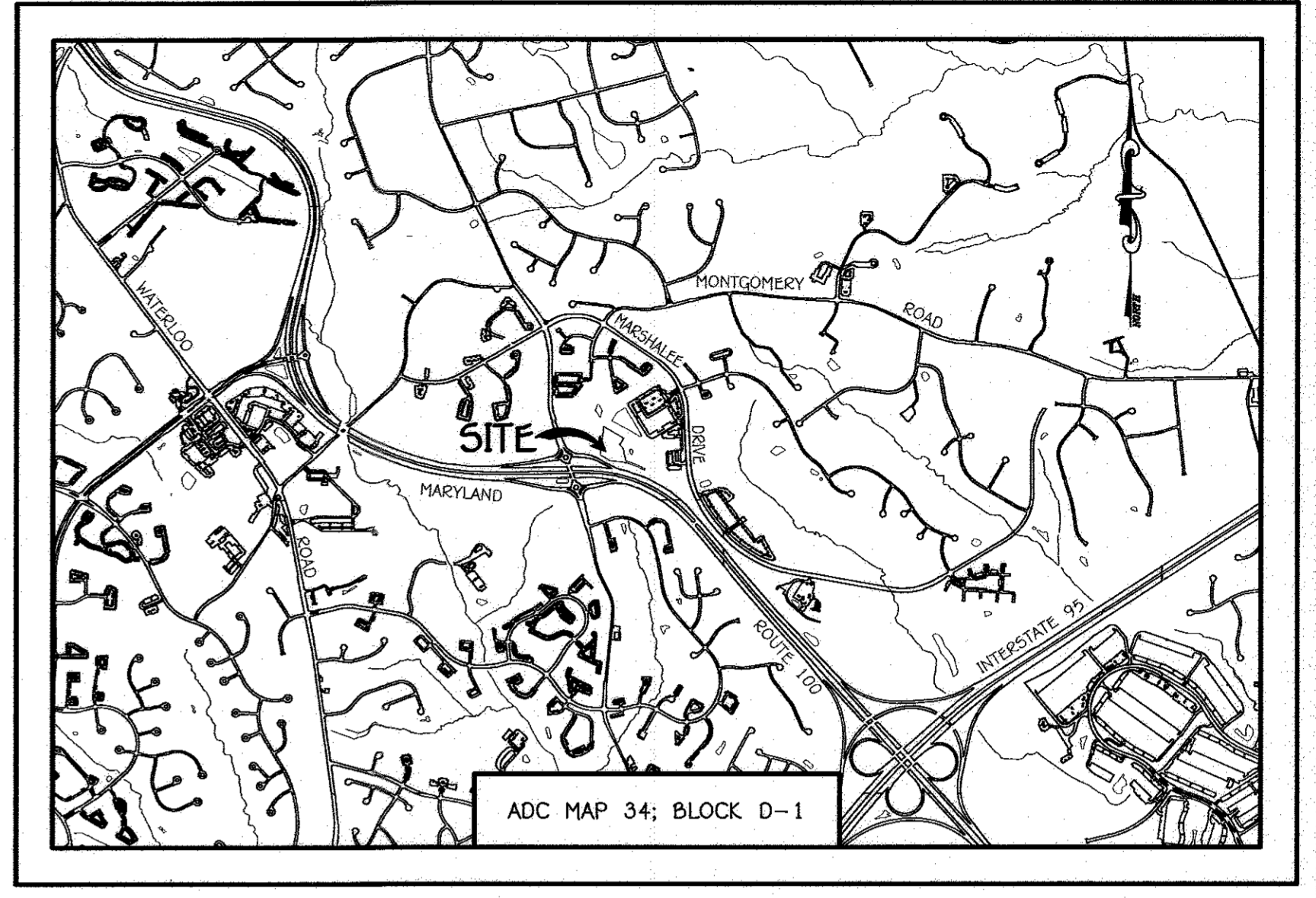
B.M.#2 - HOWARD COUNTY CONTROL STATION #3782 - HORIZONTAL - NAD '83  
 (LOCATED ALONG THE SOUTH SIDE OF OLD MONTGOMERY ROAD, JUST SOUTH OF BRIGHTFIELD ROAD)  
 N 562,611.4397  
 E 1,371,554.4728  
 ELEVATION = 399.654 - VERTICAL - (NAVD '88)



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

**LOCATION MAP**  
SCALE: 1" = 600'

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



**VICINITY MAP**  
SCALE: 1" = 2000'

**GENERAL NOTES**

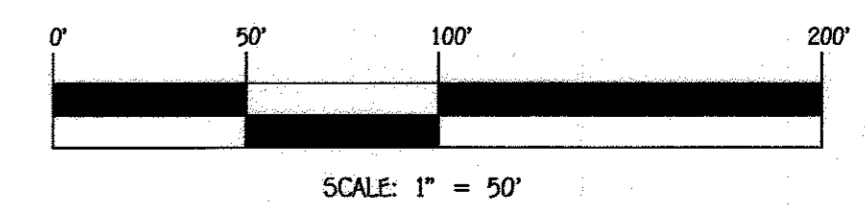
- PART A
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
  - ALL SURVEY WORK 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 '88 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 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
BCE (CONTRACTOR SERVICES)	410-637-8713
BCE (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	410-531-5533
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.
  - 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/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPM 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 TREES SHALL BE STRAPPED TO TREES.
- 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.

**AS-BUILT**  
By Date 2/29/17



**DEVELOPER**  
 100 OVERLOOK, L.L.C.  
 c/o LAND DESIGN AND DEVELOPMENT, INC.  
 5300 DORSEY HALL DRIVE  
 SUITE 102  
 ELLICOTT CITY, MARYLAND 21043  
 443-367-0422

CONTRACT NO. 14-4798-D  
 THE WELLNESS CENTER OF HOWARD COUNTY PARCEL 'A'  
 WATER MAIN EXTENSION HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4798-D  
**THE WELLNESS CENTER OF HOWARD COUNTY PARCEL 'A'**  
 WATER MAIN EXTENSION  
 HOWARD COUNTY, MARYLAND

**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. Koedel, FOR:  
 100 OVERLOOK, L.L.C. 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. Koedel, FOR:  
 100 OVERLOOK, L.L.C. 09-24-13  
 SIGNATURE OF ENGINEER DATE

SEDMIMENT 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. Koedel, FOR:  
 100 OVERLOOK, L.L.C. 09-24-13  
 SIGNATURE OF DEVELOPER DATE

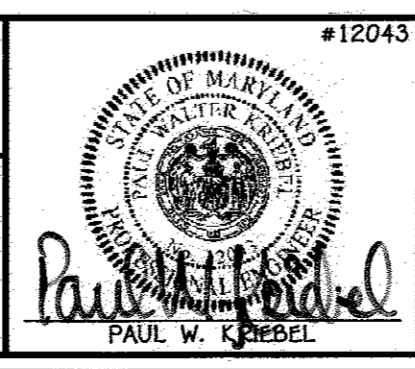
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED:  
 John R. Robertson 10/4/13  
 HOWARD SOIL CONSERVATION DISTRICT DATE

LEGEND	
SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
o	EX. SEWER MANHOLE
---	EX. WATER, SEWER & UTILITY EASEMENT
o	EX. FIRE HYDRANT
o	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
o	PROP. SEWER MANHOLE
---	PROP. WATER, SEWER & UTILITY EASEMENT
---	PROP. WIC
---	PROP. SHC
o	PROP. FIRE HYDRANT
o	PROP. VALVE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Silas C. Lee 9/30/13  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 10/4/13  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE M.G.

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. 122043 EXPIRATION DATE IS 7/16/16.  
 FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2292  
 Paul W. Koedel

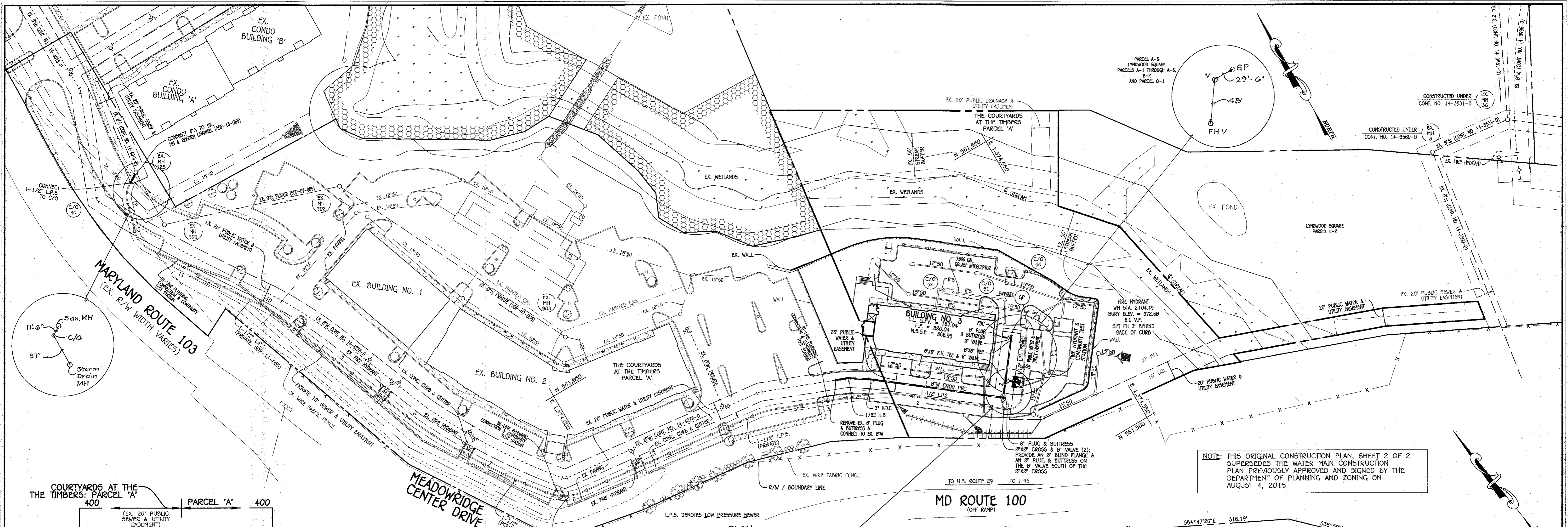


DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	SEPTEMBER, 2013
BY NO.	
REVISION	
DATE	

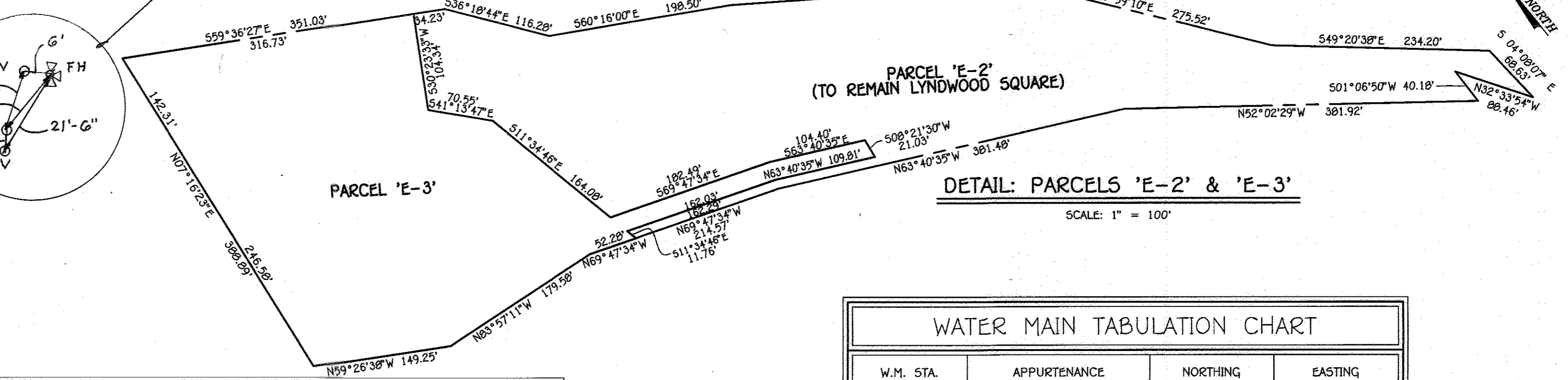
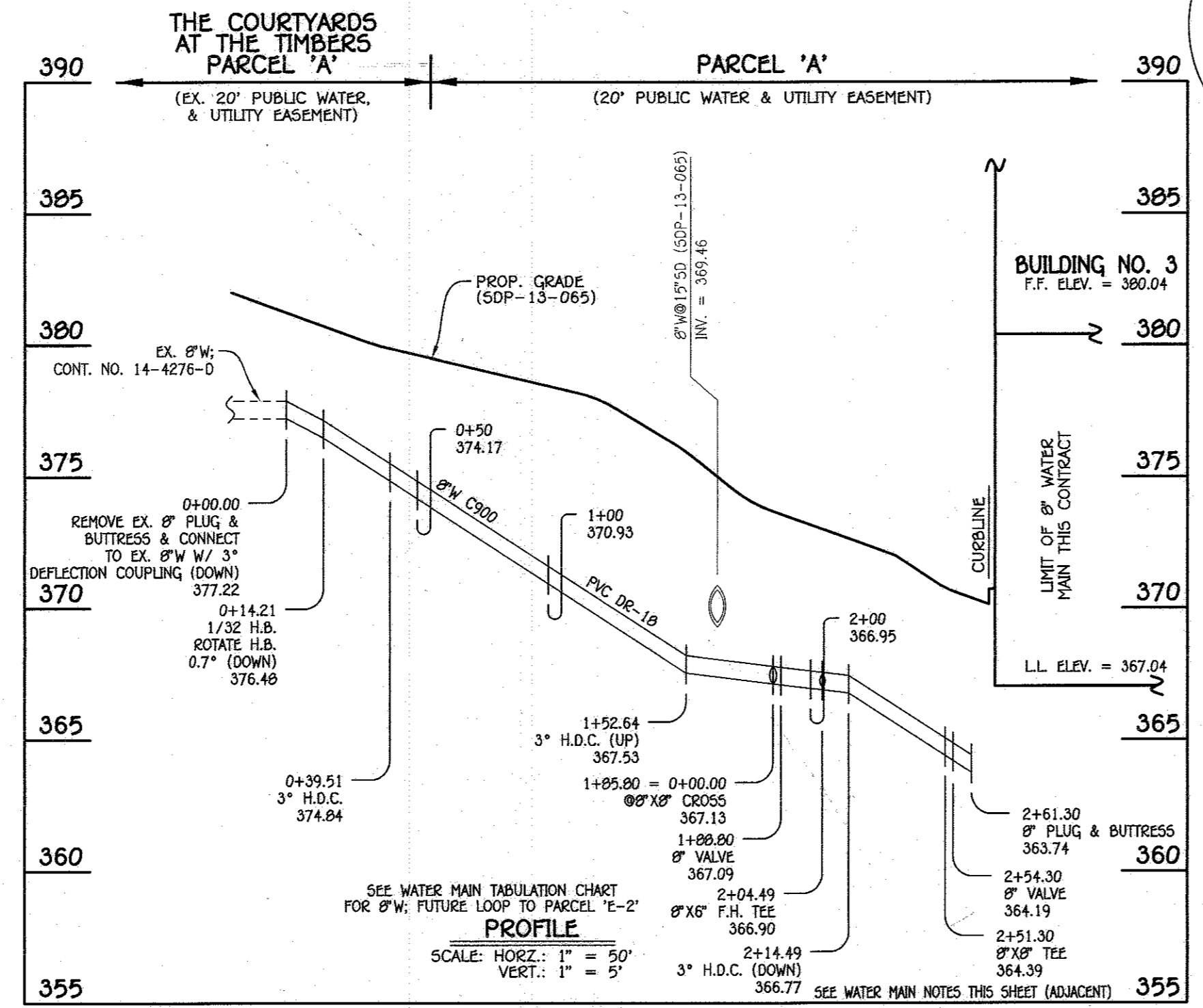
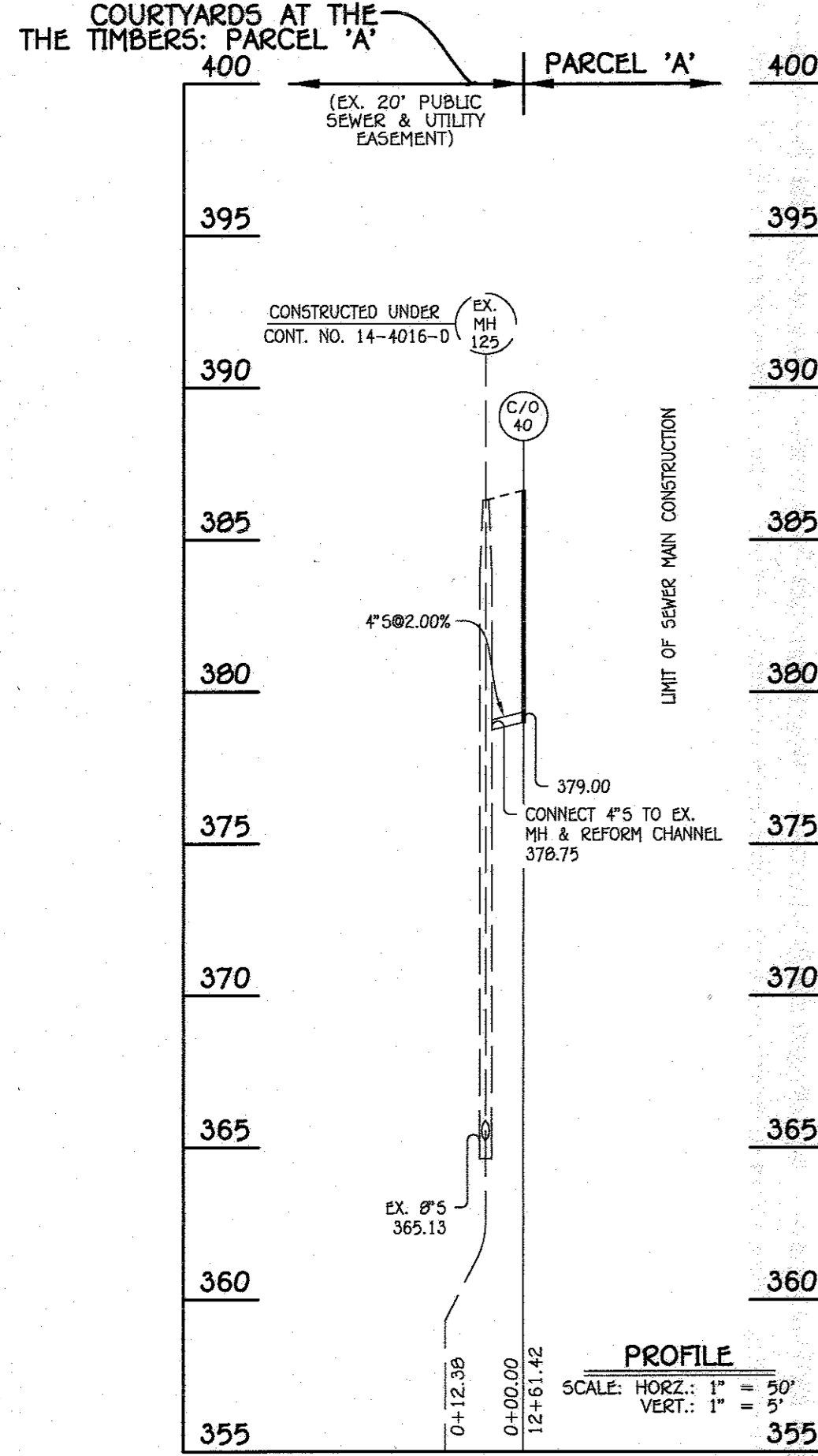
WATER MAIN EXTENSION  
 TITLE SHEET  
 600' SCALE MAP NO. 37 BLOCK NO. 10  
 F.C.C. WORK ORDER NO. 04008-4001  
 FILE NAME: WATER MAIN EXTENSIONS PLAN

THE WELLNESS CENTER OF HOWARD COUNTY  
 PARCEL 'A'  
 WATER MAIN EXTENSION  
 CONTRACT NO. 14-4798-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 1 OF 2





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	1374288.34
0+39.51	3" H.D.C.	561688.86	1374309.41
1+05.80	8" X8" CROSS	561598.05	1374424.72
1+08.80	8" VALVE	561601.21	1374426.56
2+04.49	8" X6" F.H. TEE	561613.57	1374436.22
2+51.30	8" X8" 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**

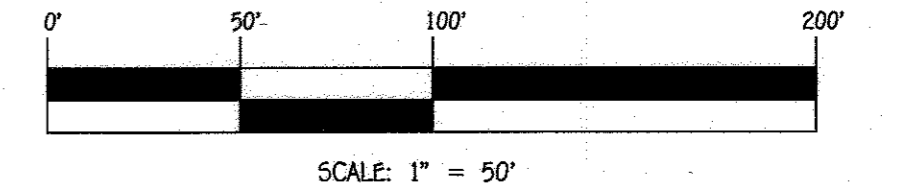
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: FUTURE LOOP TO PARCEL E-2			
0+00.00	8" X8" CROSS	561598.05	1374424.72
0+03.00	8" VALVE W/ BLIND FLANGE	561596.48	1374422.87
0+06.00	8" PLUG & BUTTRESS	561594.12	1374421.03

**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	396.63

- 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.

**AS-BUILT**  
 Date 2/20/17



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND 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. <b>FISHER, COLLINS &amp; CARTER, INC.</b> CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 (410) 461-2999	DESIGNED BY: B.C.R.	WATER MAIN EXTENSION PLAN, PROFILE & CHARTS 600' SCALE MAP NO. 37 BLOCK NO. 10 F.C.C. WORK ORDER NO. 04008-4001 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
			DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: NOVEMBER, 2015			