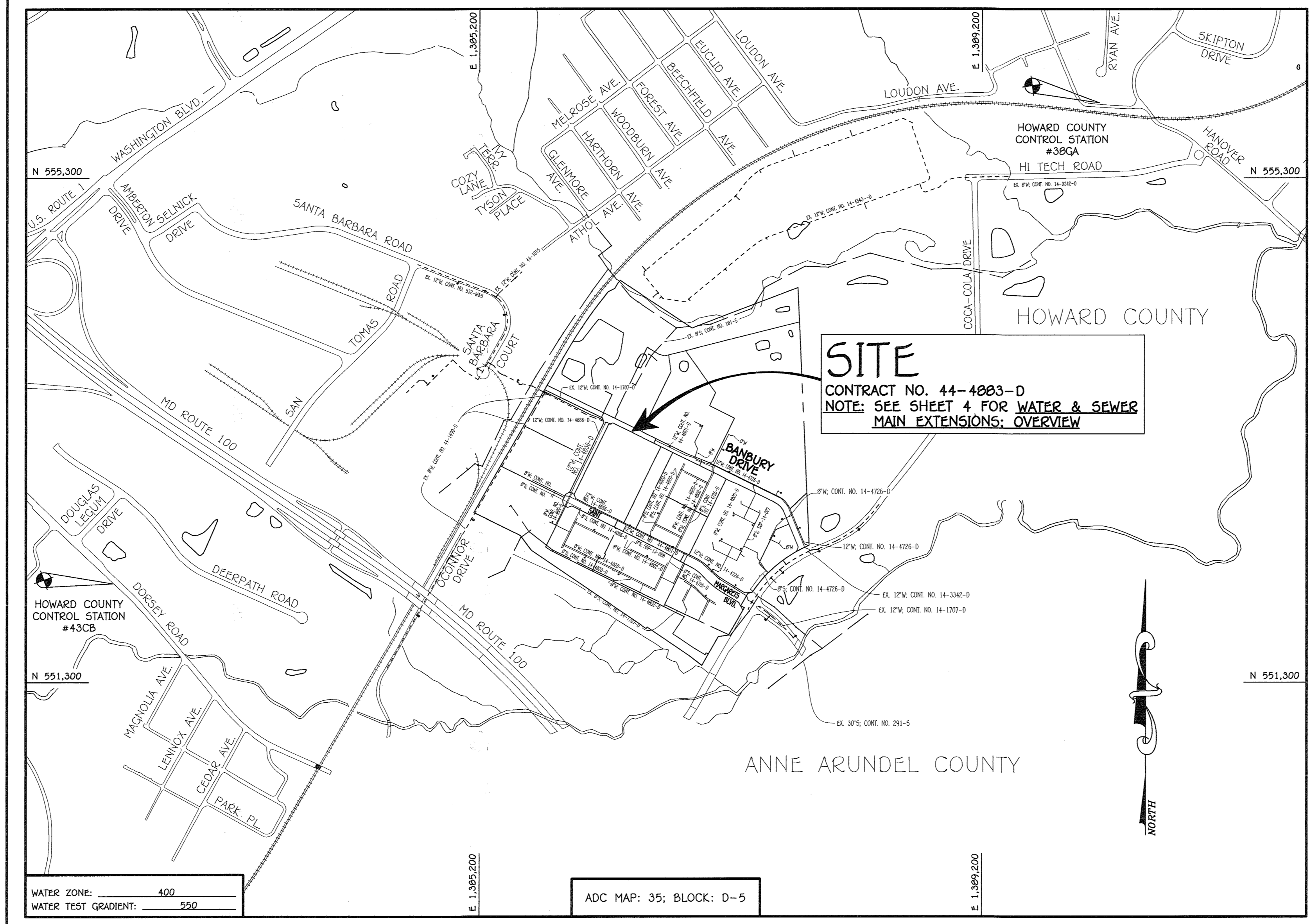


ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
12" C900 PVC, DR-18	508 L.F.	508 L.F.	C-900	JM EAGLE
8" C900 PVC, DR-18	163 L.F.	163 L.F.	C-900	JM EAGLE
6" C900 PVC, DR-18	9 L.F.	9 L.F.	C-900	JM EAGLE
12" VALVE	3 EACH	3 EA	GATE	AMERICAN FLON
8" VALVE	4 EACH	4 EA	GATE	AMERICAN FLON
6" VALVE	1 EACH	1 EA	GATE	AMERICAN FLON
12" X 8" TEE	4 EACH	4 EA	DUCTILE	EDAA IRON
12" X 6" F.H. TEE	1 EACH	1 EA	DUCTILE	EDAA IRON
CONTINUITY TEST STATION	1 EACH	1 EA	---	VESTAL
FIRE HYDRANT	1 EACH	1 EA	---	AMERICAN DARLING
12" PLUG & BUTTRESS	2 EACH	2 EA	DUCTILE	EDAA IRON
8" PLUG & BUTTRESS	2 EACH	2 EA	DUCTILE	EDAA IRON

NAME OF UTILITY CONTRACTOR: CCS  
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: 5-24-17



**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. 45.7' EAST OF POWER POLE NO. 19)  
 N 552,094.2466  
 E 1,382,282.4190  
 ELEVATION = 144.391 - VERTICAL - (NAVD '88)

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

TYPE OF BUILDING:	NOT APPLICABLE
NUMBER OF PARCELS:	N/A
NO. OF WATER HOUSE CONNECTIONS:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	N/A
SEWER SHED:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

**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 M. Keidel, FOR:  
 PRESTON-SCHIEFFENACKER PROPERTIES 05/05/15  
 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 M. Keidel, FOR:  
 PRESTON-SCHIEFFENACKER PROPERTIES 05-05-15  
 SIGNATURE OF DEVELOPER DATE

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 PLAN, F-15-008.

Paul M. Keidel, FOR:  
 PRESTON-SCHIEFFENACKER PROPERTIES 05-05-15  
 SIGNATURE OF DEVELOPER DATE

F-15-008

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

APPROVED:  
 [Signature] 6/18/15  
 CHIEF, SOIL CONSERVATION DISTRICT DATE

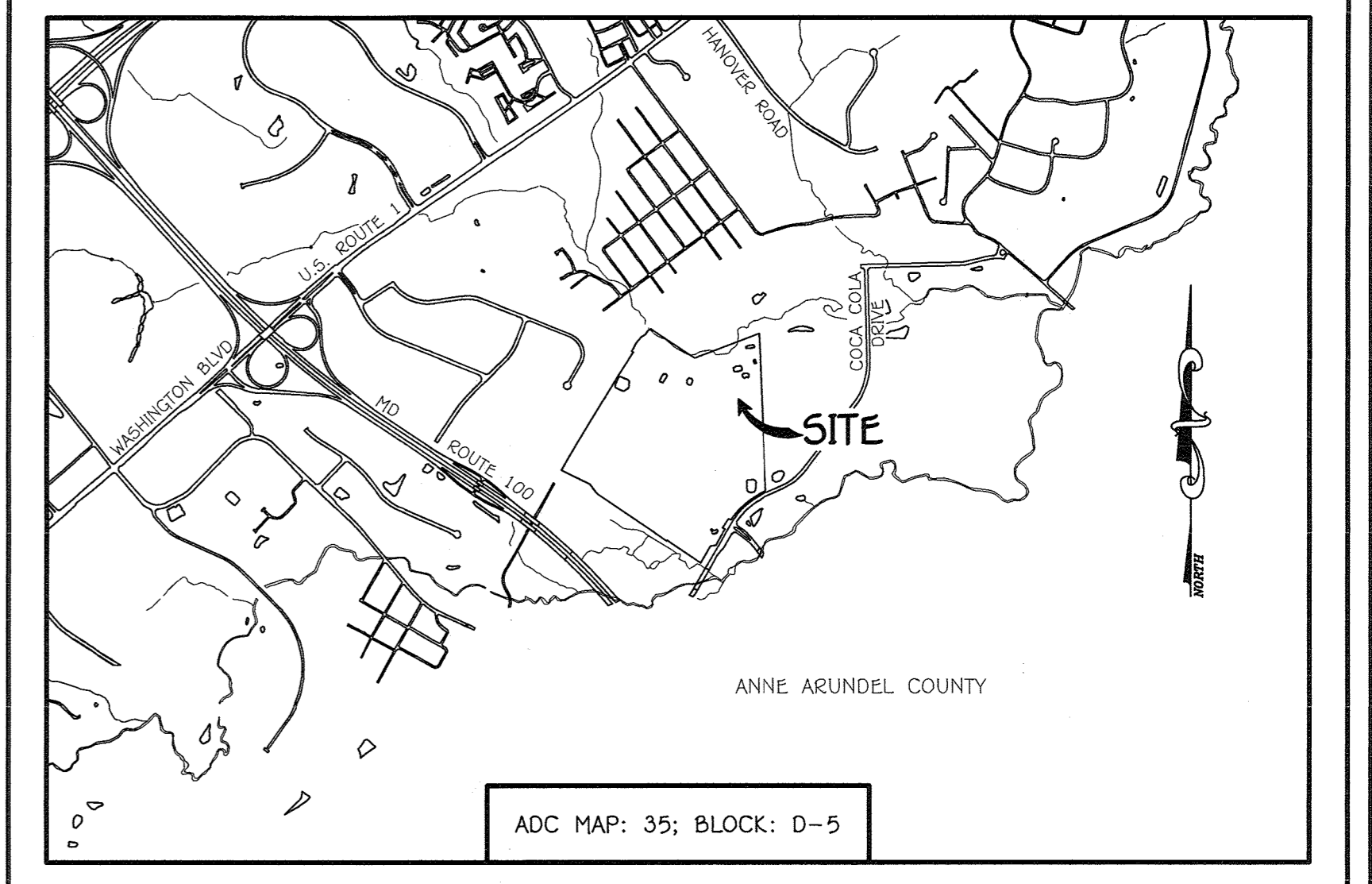
**LEGEND**

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

CONTRACT NO. 44-4883-D  
**OXFORD SQUARE**  
 BANBURY DRIVE: BEAUMONT PLACE TO  
 CROWLEY STREET  
 WATER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

**OWNER**  
 KELLOGG-COP, LLC  
 c/o DAVID P. SCHEFFENACKER, JR.  
 MANAGING MEMBER  
 2330 WEST JOPPA ROAD, SUITE 190  
 LUTHERVILLE, MARYLAND 21093-4614  
 PHONE - 410-296-3800

**DEVELOPER**  
 PRESTON-SCHIEFFENACKER PROPERTIES  
 2330 WEST JOPPA ROAD, SUITE 190  
 LUTHERVILLE, MARYLAND 21093-4614  
 PHONE - 410-296-3800



- GENERAL NOTES**  
 SCALE: 1" = 2000'
- 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, 2010 BY FISHER, COLLINS & CARTER, INC.
  - 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. 38GA & NO. 43CB.
  - 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 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 FITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 'S' AT THE LOCATIONS OF THE TEST FITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS 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)              | 410-689-0123                  |
| BUREAU OF UTILITIES          | 410-313-4900                  |
| COLONIAL PIPELINE CO         | 410-795-1390                  |
| MISS UTILITY                 | 1-800-257-7777                |
| STATE HIGHWAY ADMINISTRATION | 410-931-9233                  |
| 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 OPERATING ANY BOROING/GRADING OR 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(f) 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 BRACED 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 1009 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 WITH 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 HARNESSES. 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.
  - ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION 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, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.
- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1 1/2-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 220 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 CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR-18 OR EQUAL.
- WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSERT 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 AND 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 INDOOROPERATION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EDAA IRON, INC. OR APPROVED EQUAL.
- PART C: SEWER MAIN GENERAL 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 WIT IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVER, STANDARD DETAIL C5.52, WHERE WATER-TIGHT MANHOLE FRAMES AND COVERS ARE USED. SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

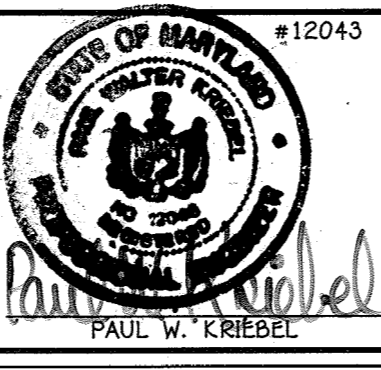
[Signature] 5/24/15  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

[Signature] 6-26-15  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461 - 2899



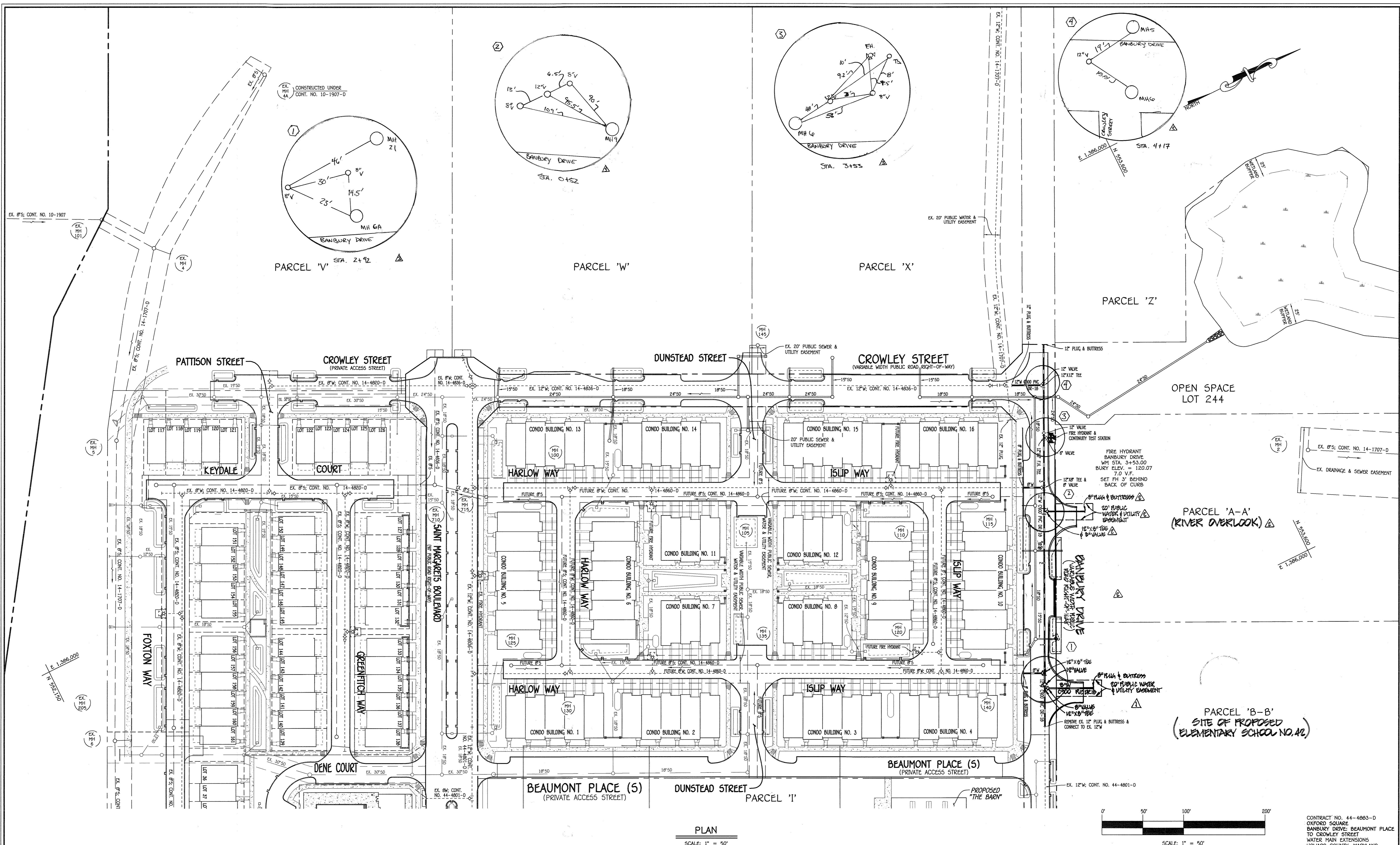
DESIGNED BY:	B.C.R.	DATE:	MAY, 2015
DRAWN BY:	B.C.R.	BY:	NO.
CHECKED BY:	P.W.K.	REVISION:	
DATE:	MAY, 2015	FILE NAME:	WATER MAIN EXTENSIONS PLAN

WATER MAIN EXTENSIONS  
 TITLE SHEET

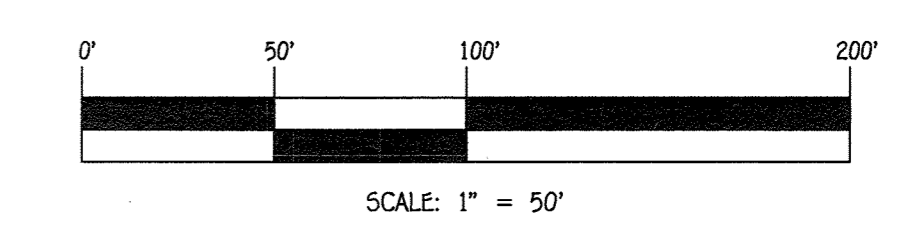
600' SCALE MAP NO. 30 BLOCK NO. 13 & 20  
 F.C.C. WORK ORDER NO. 09014-3011

OXFORD SQUARE  
 BANBURY DRIVE: BEAUMONT PLACE TO  
 CROWLEY STREET  
 WATER MAIN EXTENSIONS  
 CONTRACT NO. 44-4883-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 4



PLAN  
SCALE: 1" = 50'



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Steve C. Green*  
CHIEF, BUREAU OF UTILITIES

DATE: 5/26/15

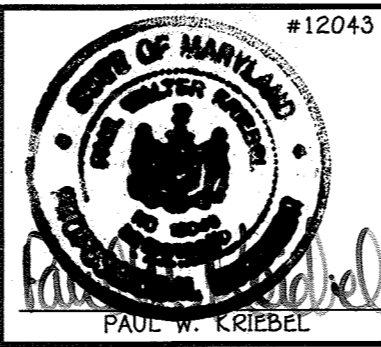
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Chad Clenden*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 5/26/15

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. 12243 EXPIRATION DATE 6/7/16/16.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
BELLTOWN CITY, MARYLAND 21042  
(410) 461-2995



DESIGNED BY:	B.C.R.	DATE:	MAY, 2015
DRAWN BY:	B.C.R.	DATE:	MAY, 2015
CHECKED BY:	P.W.K.	DATE:	MAY, 2015
BY:	NO.	REVISION:	

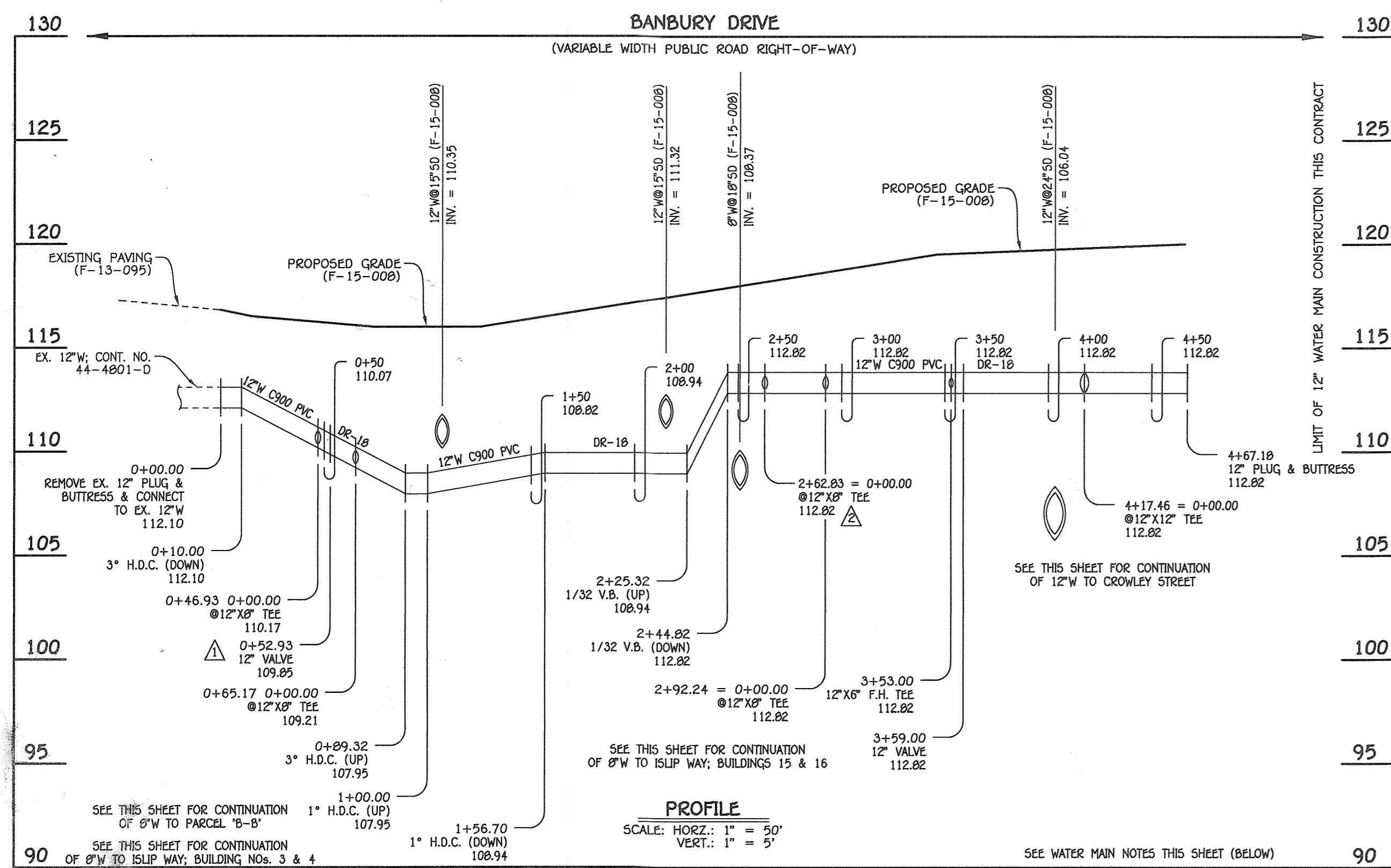
WATER MAIN EXTENSIONS PLAN	
600' SCALE MAP NO. 38	BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3011	
FILE NAME:	WATER MAIN EXTENSIONS PLAN

OXFORD SQUARE  
BANBURY DRIVE: BEAUMONT PLACE TO CROWLEY STREET  
WATER MAIN EXTENSIONS  
CONTRACT NO. 44-4803-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

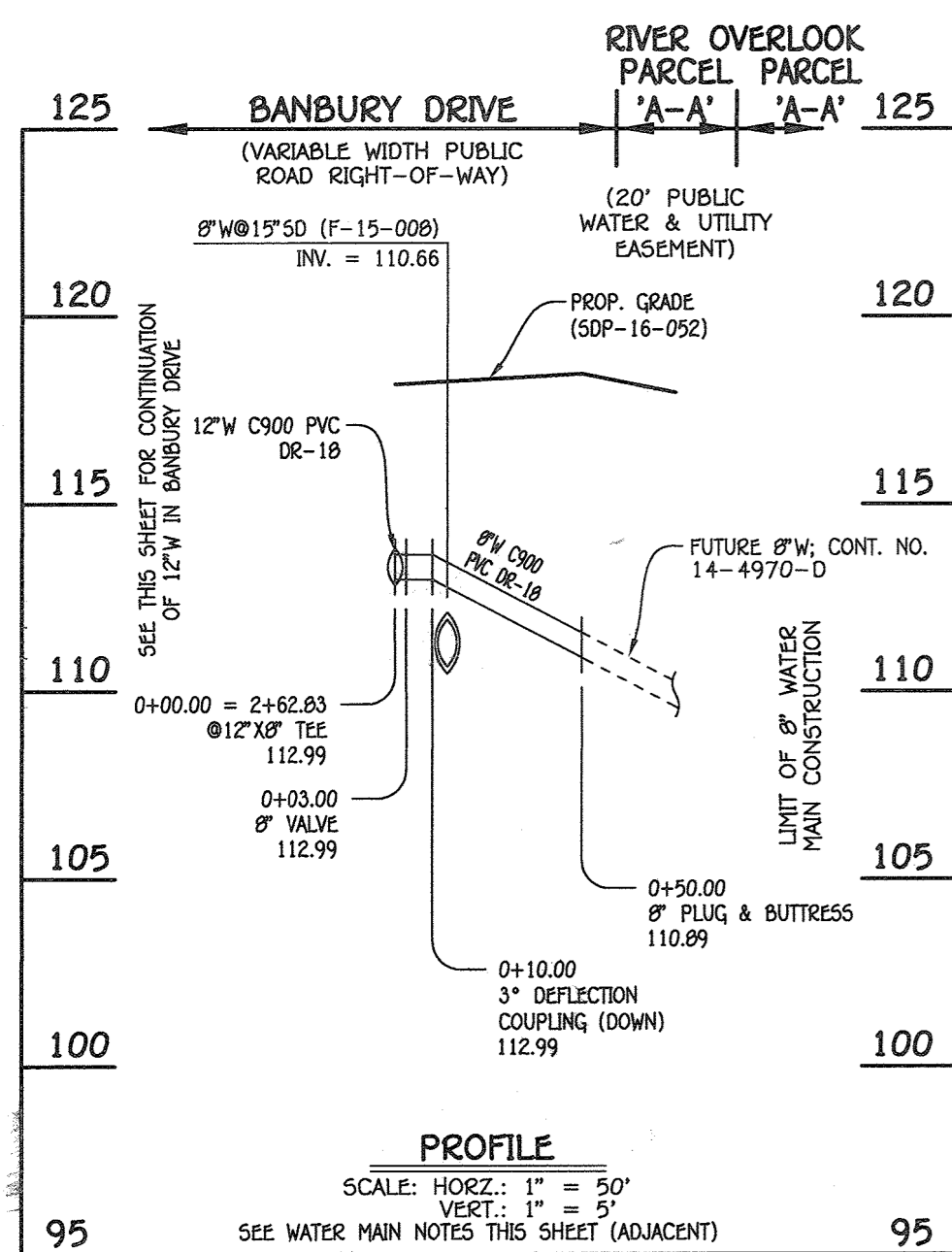
SHEET 2 OF 4

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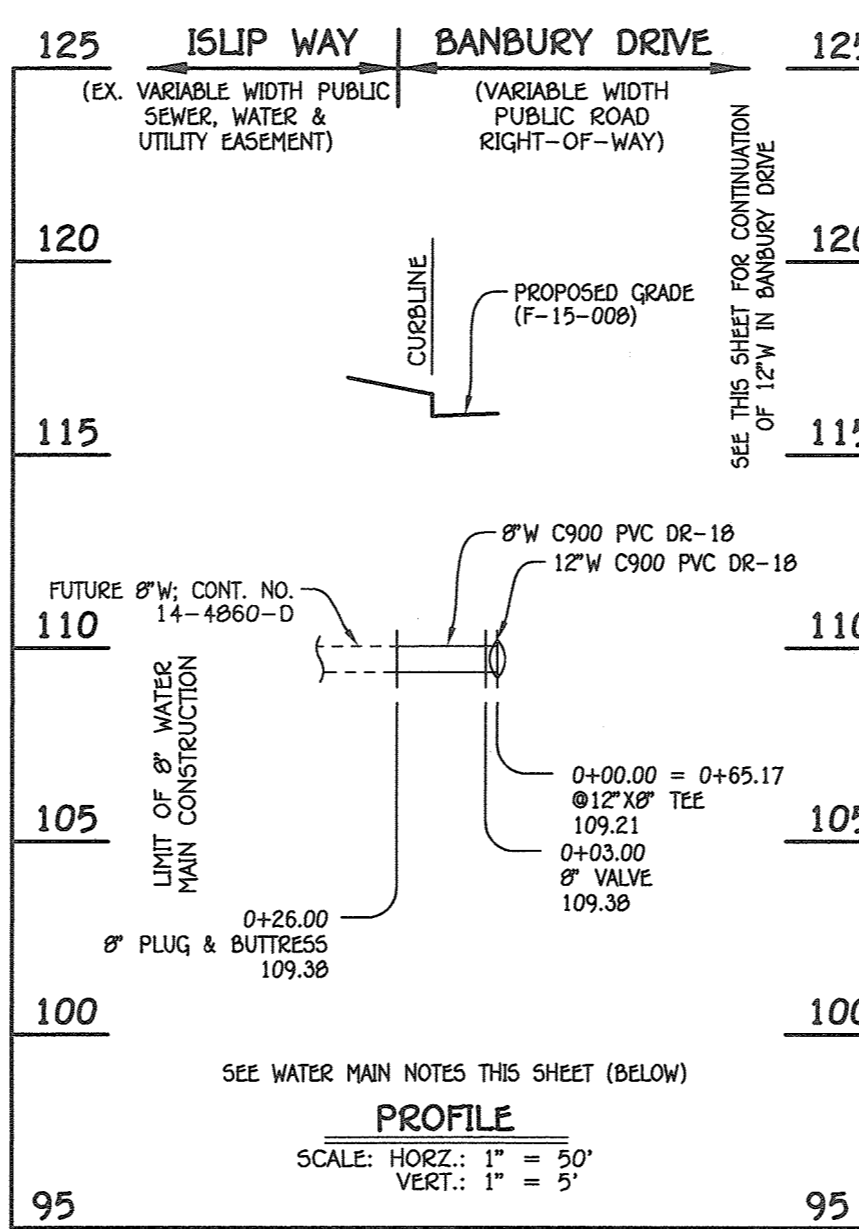
12" WATER MAIN: BANBURY DRIVE

W.M. STA.	APPURTENANCE	NORTHING	EASTING
12" WATER MAIN: BANBURY DRIVE			
0+00.00	EX. 12" PLUG & BUTTRESS	553215.62	1386600.90
0+65.17	12" X8" TEE	553244.18	1386542.32
0+46.93 = 0+00.00	12" X8" TEE	553236.18	1386558.72
0+52.93	12" VALVE	553238.81	1386553.33
2+62.83	12" X8" TEE	553330.81	1386364.65
2+92.24	12" X8" TEE	553343.69	1386338.22
3+53.00	12" X6" F.H. TEE	553370.32	1386283.61
3+59.00	12" VALVE	553372.95	1386278.21
4+17.46	12" X12" TEE	553398.57	1386225.66
4+67.18	12" PLUG & BUTTRESS	553420.36	1386180.97



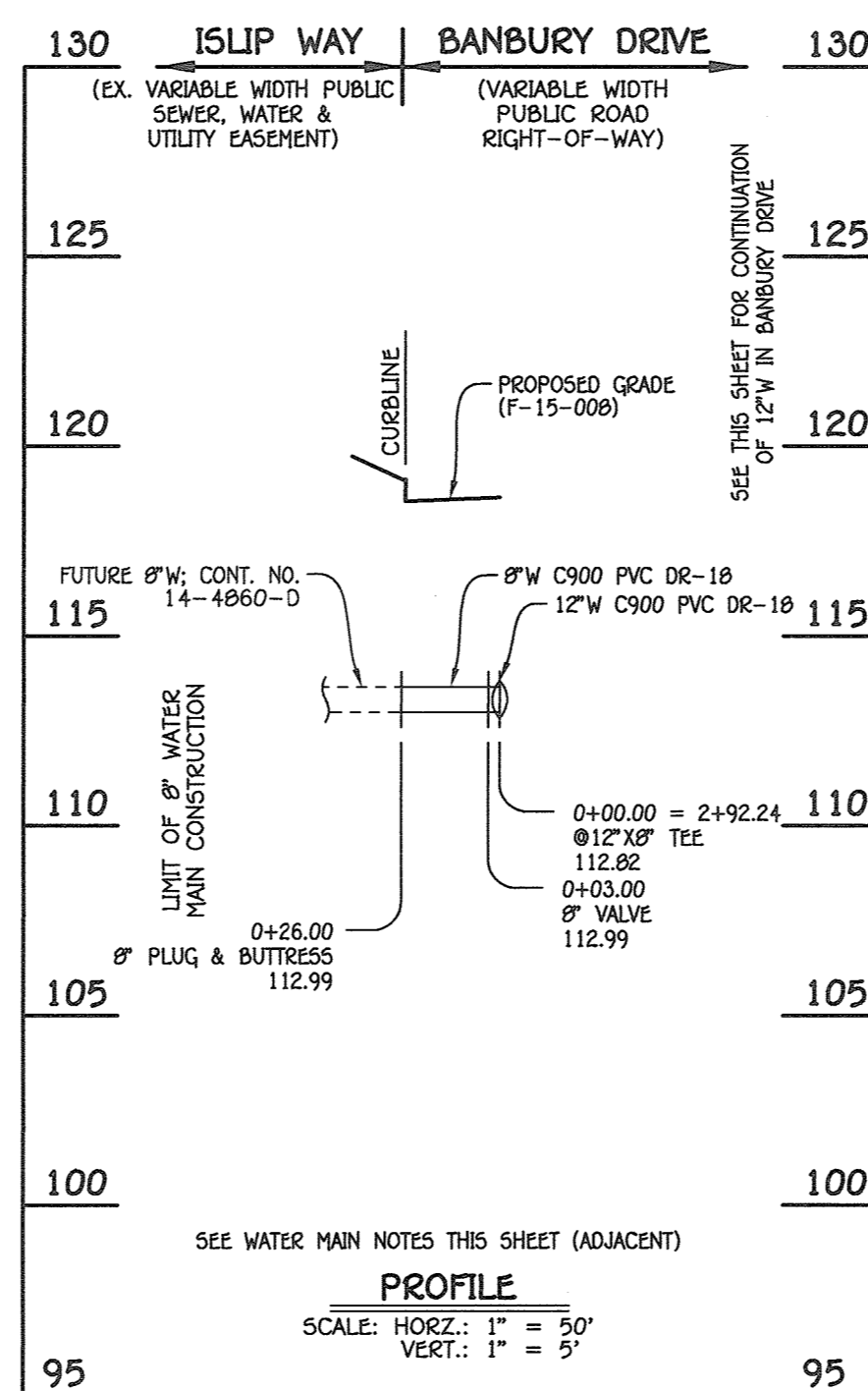
8" WATER MAIN: TO PARCEL 'A-A' (RIVER OVERLOOK)

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: TO PARCEL 'A-A' (RIVER OVERLOOK)			
0+00.00 = 2+62.83	12" X8" TEE	553330.81	1386364.65
0+03.00	8" VALVE	553333.50	1386365.97
0+50.00	8" PLUG & BUTTRESS	553375.73	1386386.57



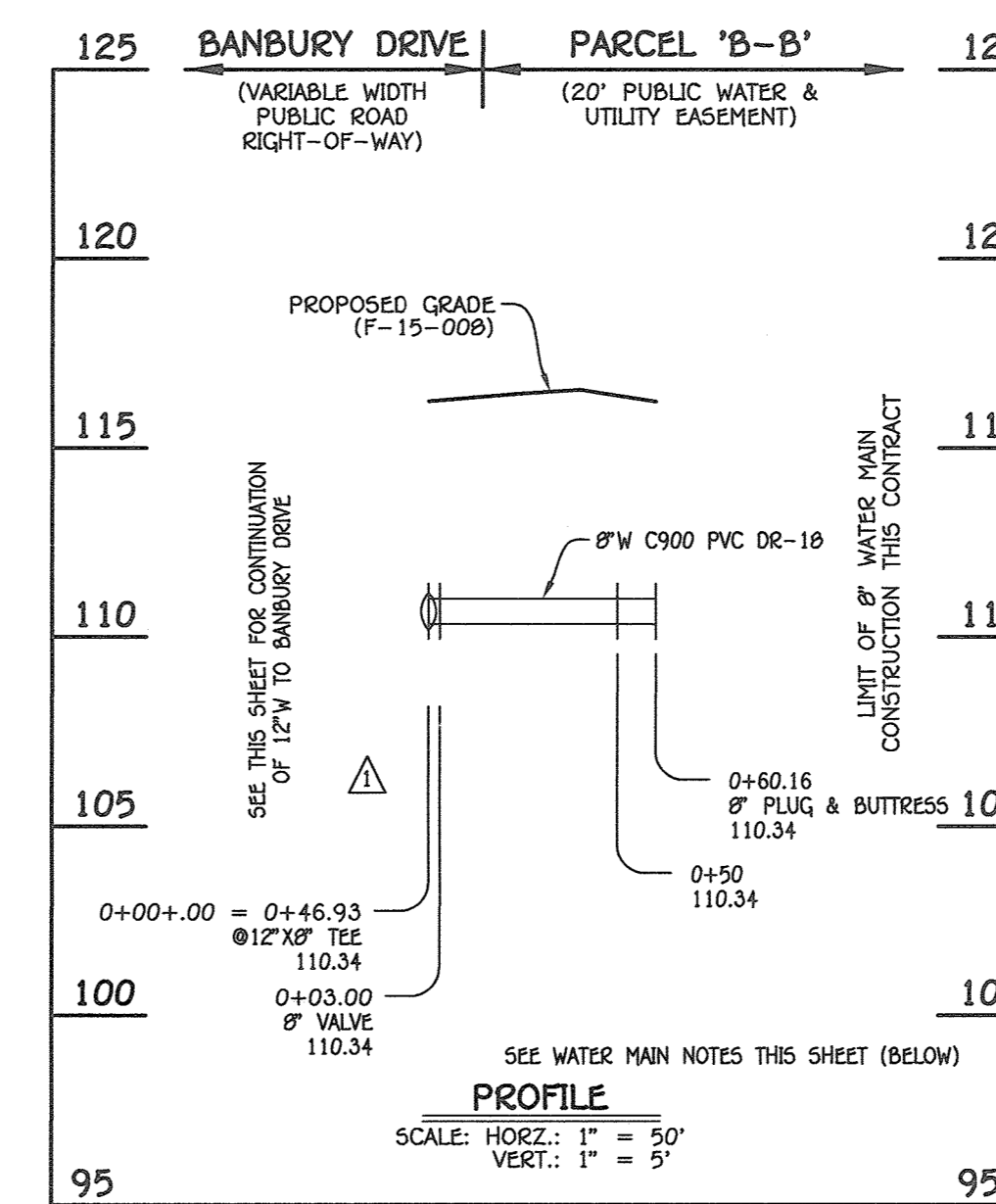
8" WATER MAIN: TO ISLIP WAY; BUILDING NOS. 3 & 4; PARCEL 'Y'

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: TO ISLIP WAY; BUILDING NOS. 3 & 4; PARCEL 'Y'			
0+00.00	12" X8" TEE	553244.18	1386542.32
0+03.00	8" VALVE	553241.48	1386541.00
0+26.00	8" PLUG & BUTTRESS	553220.81	1386530.93



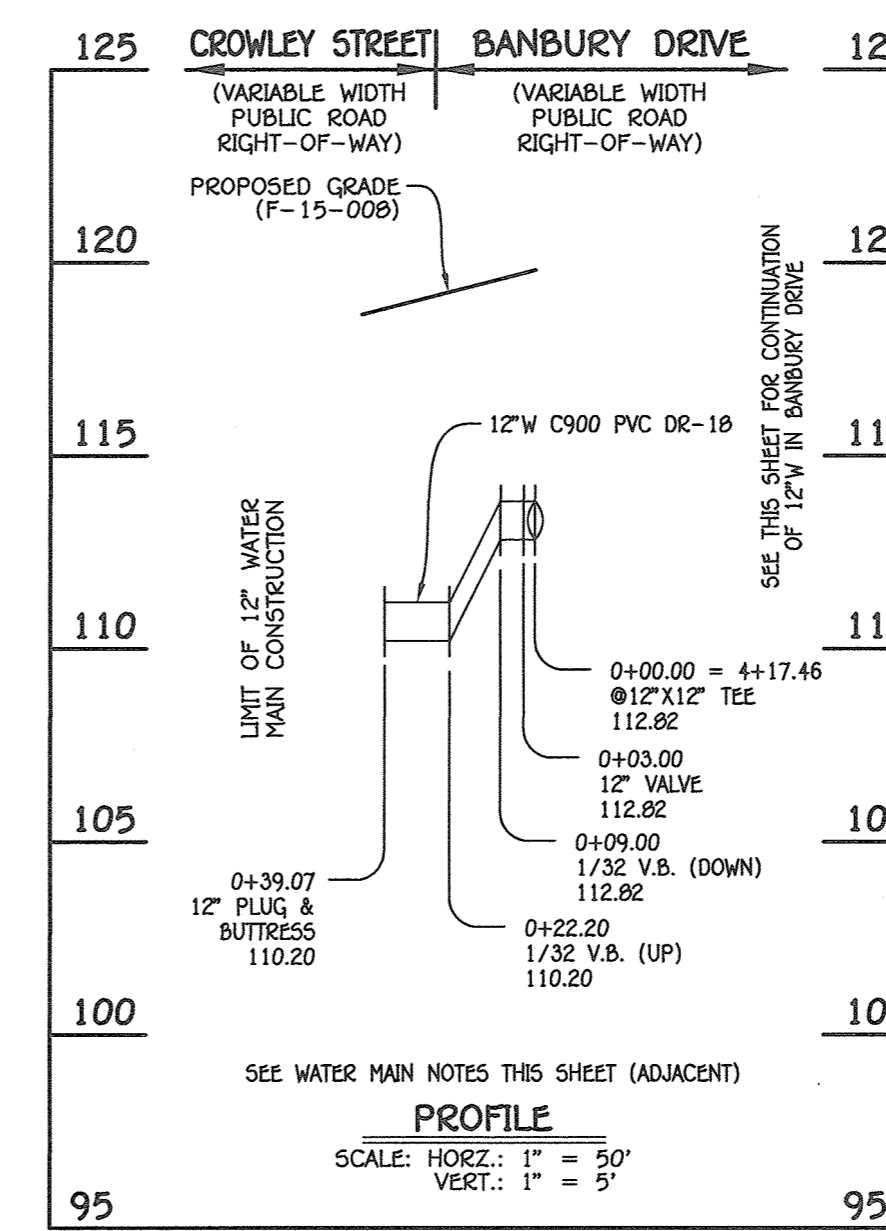
8" WATER MAIN: TO ISLIP WAY; BUILDING NOS. 15 & 16; PARCEL 'Y'

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: TO ISLIP WAY; BUILDING NOS. 15 & 16; PARCEL 'Y'			
0+00.00	12" X8" TEE	553343.69	1386338.22
0+03.00	8" VALVE	553341.00	1386336.89
0+26.00	8" PLUG & BUTTRESS	553320.37	1386326.72



8" WATER MAIN: PARCEL 'B-B'

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 'B-B'			
0+00.00 = 0+46.93	12" X8" TEE	553236.18	1386558.72
0+03.00	8" VALVE	553238.88	1386560.04
0+60.16	8" PLUG & BUTTRESS	553290.26	1386585.09

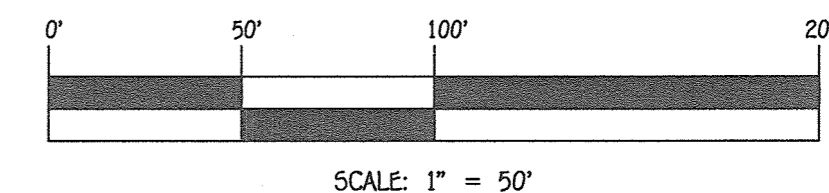


8" WATER MAIN: TO CROWLEY STREET

W.M. STA.	APPURTENANCE	NORTHING	EASTING
12" WATER MAIN: TO CROWLEY STREET			
0+00.00	12" X12" TEE	553398.57	1386225.66
0+03.00	12" VALVE	553395.88	1386224.35
0+39.07	12" PLUG & BUTTRESS	553363.45	1386208.54

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 3 OF 4 SUPERSEDES THE WATER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON JUNE 26, 2015.

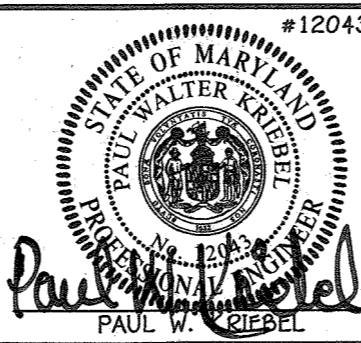
- WATER MAIN NOTES:**
- ALL WATER MAINS SHALL BE AMWA C900 PVC PIPE; DR-18.
  - ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AMWA C900 PVC WATER PIPE INSTALLATION.
  - DEFLECTION 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  
CHIEF, BUREAU OF UTILITIES  
DATE: 8/22/16

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 8-26-16

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  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE  
ELIJAH CITY, MARYLAND 21142  
(410) 461-2999



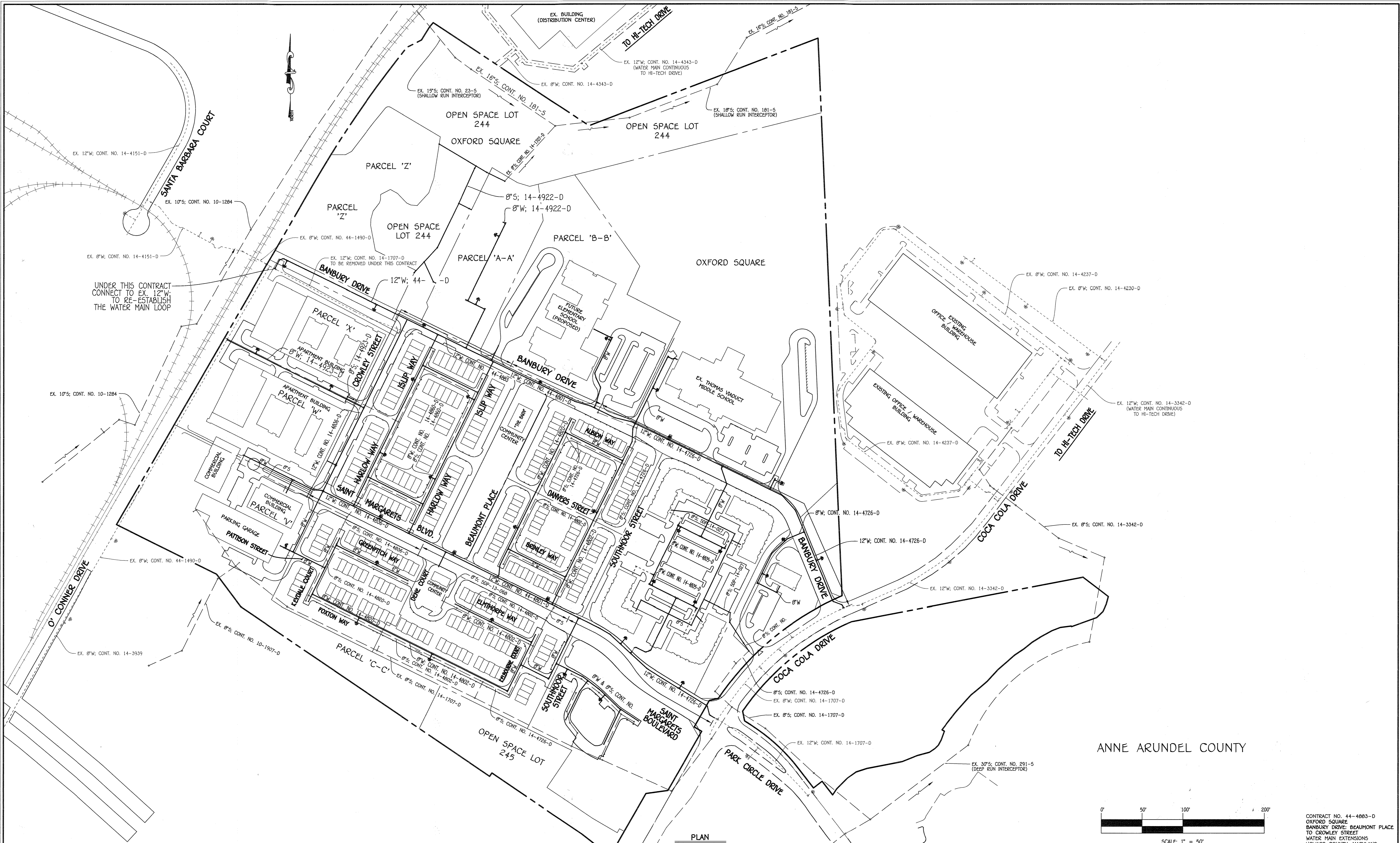
DESIGNED BY: B.C.R.  
DRAWN BY: B.C.R.  
CHECKED BY: P.W.K.  
DATE: 10/8/15  
AUGUST, 2016

REVISION PROFILE & CHART FOR 8" W TO PARCEL 'A-A' (RIVER OVERLOOK) 5/4/16  
REVISION PROFILE & CHART FOR 8" W TO PARCEL 'B-B' 10/8/15

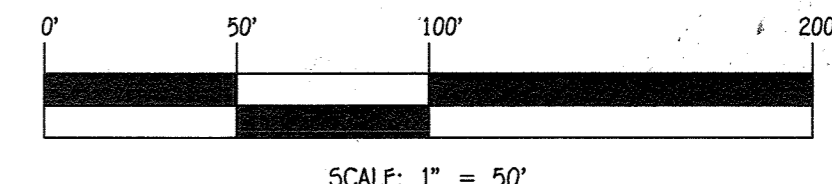
WATER MAIN EXTENSIONS  
PROFILES, CHARTS & NOTES  
60' SCALE MAP NO. 38 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 09014-3011  
FILE NAME: WATER MAIN EXTENSIONS PLAN

OXFORD SQUARE  
BANBURY DRIVE: BEAUMONT PLACE TO CROWLEY STREET  
WATER MAIN EXTENSIONS  
CONTRACT NO. 44-4883-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 3 OF 4



ANNE ARUNDEL COUNTY

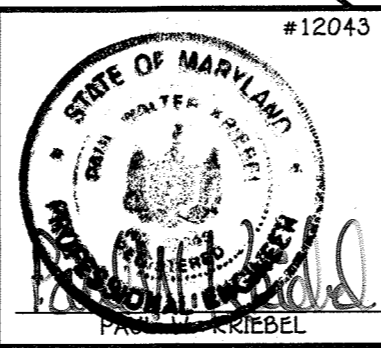


CONTRACT NO. 44-4883-D  
 OXFORD SQUARE  
 BANBURY DRIVE: BEAUMONT PLACE  
 TO CROWLEY STREET  
 WATER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Chief, Bureau of Utilities  
 Date: 5/26/15

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief, Development Engineering Division  
 Date: 5/26/15

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  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLSWORTH CITY, MARYLAND 21042  
 (410) 461-2999



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	MAY, 2015
BY NO.	
REVISION	
DATE	

WATER & SEWER MAIN EXTENSIONS OVERVIEW	
600' SCALE MAP NO. 38	BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3011	
FILE NAME: WATER MAIN EXTENSIONS PLAN	

**OXFORD SQUARE**  
 BANBURY DRIVE: BEAUMONT PLACE TO  
 CROWLEY STREET  
 WATER MAIN EXTENSIONS  
 CONTRACT NO. 44-4883-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE  
 AS  
 SHOWN  
 SHEET  
 4 OF 4