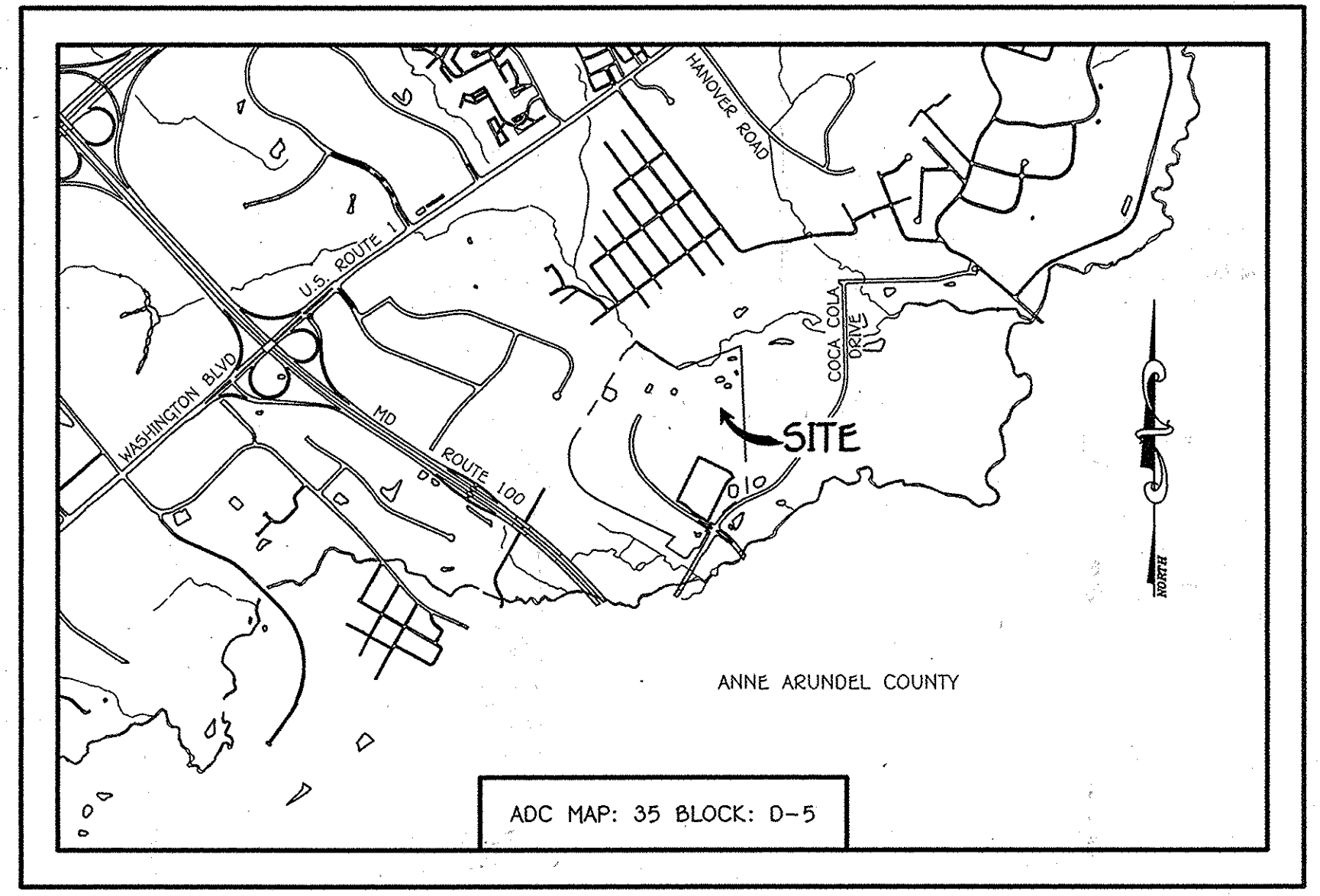
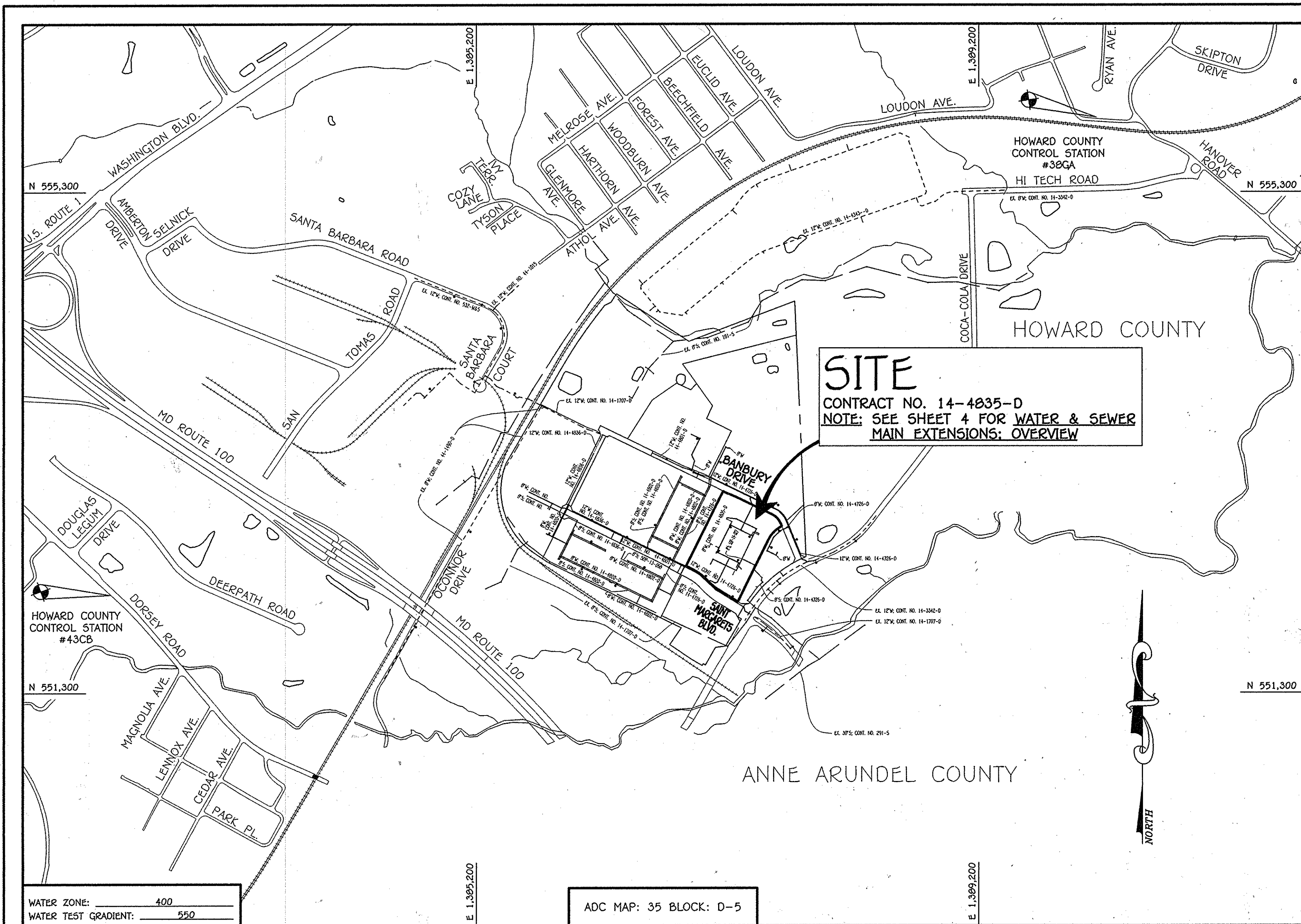


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" PVC	127 L.F.	127 L.F.	PLASTIC	North American Pipe
MANHOLE	1 EACH	1 EACH	CONCRETE	CONTRACTOR PRECAST
8" W. C900 PVC	1,129 L.F.	1,129 L.F.	PLASTIC	North American Pipe
6" W. C900 PVC	63 L.F.	63 L.F.	PLASTIC	North American Pipe
8" VALVE	10 EACH	10 EACH	DUCTILE	H.D. SHIPPY M.M.I.
6" VALVE	4 EACH	4 EACH	DUCTILE	H.D. SHIPPY M.M.I.
8" X 8" TEE	2 EACH	2 EACH	DUCTILE	STAR PIPE PRODUCTS
8" X 6" TEE	4 EACH	4 EACH	DUCTILE	STAR PIPE PRODUCTS
1/8" H.B.	5 EACH	5 EACH	DUCTILE	STAR PIPE PRODUCTS
8" PLUG & BUTTRESS	4 EACH	4 EACH	DUCTILE	STAR PIPE PRODUCTS
FIRE HYDRANT	4 EACH	4 EACH	DUCTILE	VENNEDY
CONTINUITY TEST STATION	4 EACH	4 EACH	CONCRETE	CONTRACTOR PRECAST

NAME OF UTILITY CONTRACTOR: **SEH CONTRACTING**
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: **4/18/14**



BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #39CA - HORIZONTAL - NAD '83
 (LOCATED ALONG RAILROAD AVENUE, JUST SOUTH OF RYAN AVENUE, APPROX. 22.6' NORTH FROM THE CENTER LINE OF RAILROAD AVENUE.)
 N 552,897.3373
 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. 46.7' EAST OF POWER POLE NO. 19.)
 N 552,094.2466
 E 1,382,282.4190
 ELEVATION = 144.391 - VERTICAL - (NAVD '88)

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. Koebel; FOR:
GGT OXFORD VENTURE MD LLC 05-21-14
 SIGNATURE OF DEVELOPER

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. Koebel; FOR:
GGT OXFORD VENTURE MD LLC 05-21-14
 SIGNATURE OF DEVELOPER

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

LOCATION MAP

SCALE: 1" = 600'

TYPE OF BUILDING: RESIDENTIAL: APARTMENT BUILDINGS
 NUMBER OF PARCELS: 1
 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

CONTRACT NO. 14-4835-D

OXFORD SQUARE

WOODFIELD

PARCEL 'K'

WATER & SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

PLAN REFERENCE NUMBERS:
 F-13-045 (RECORD PLAT)
 50P-14-027

GENERAL NOTES

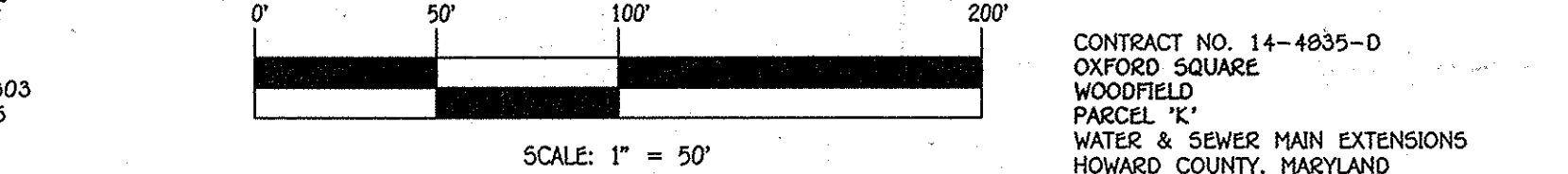
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC 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 '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 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 FIT 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
 - HESS UTILITY 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION 410-531-9233
 - VERIZON 1-800-745-0033 / 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 DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART B: WATER MAIN GENERAL NOTES

- ALL WATER MAINS SHALL BE AWMA 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 AWMA 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 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 200 PSI MEETING THE REQUIREMENTS OF AWMA 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.
- PVC 5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWMA C900 AND SHALL BE MULTI FITTINGS (UP TO) BELL BELL, 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 AWMA 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 INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



OWNER / DEVELOPER
 GGT OXFORD VENTURE MD LLC
 c/o TODD JACOBUS
 6990 WISCONSIN AVENUE, SUITE 303
 CHEVY CHASE, MARYLAND 20815
 PH: 301-654-5580

CONTRACT NO. 14-4835-D
 OXFORD SQUARE
 WOODFIELD
 PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

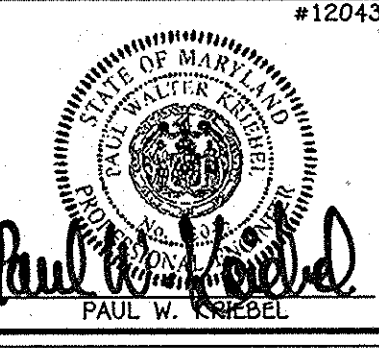
John P. Robertson
 CHIEF, BUREAU OF UTILITIES
 DATE: 5/21/14

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Chad Edwards
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5-28-14

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 7/15/14.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
 ELLSWORTH CITY, MARYLAND 21042
 (410) 401-2295



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	EEH
DATE:	MAY, 2014

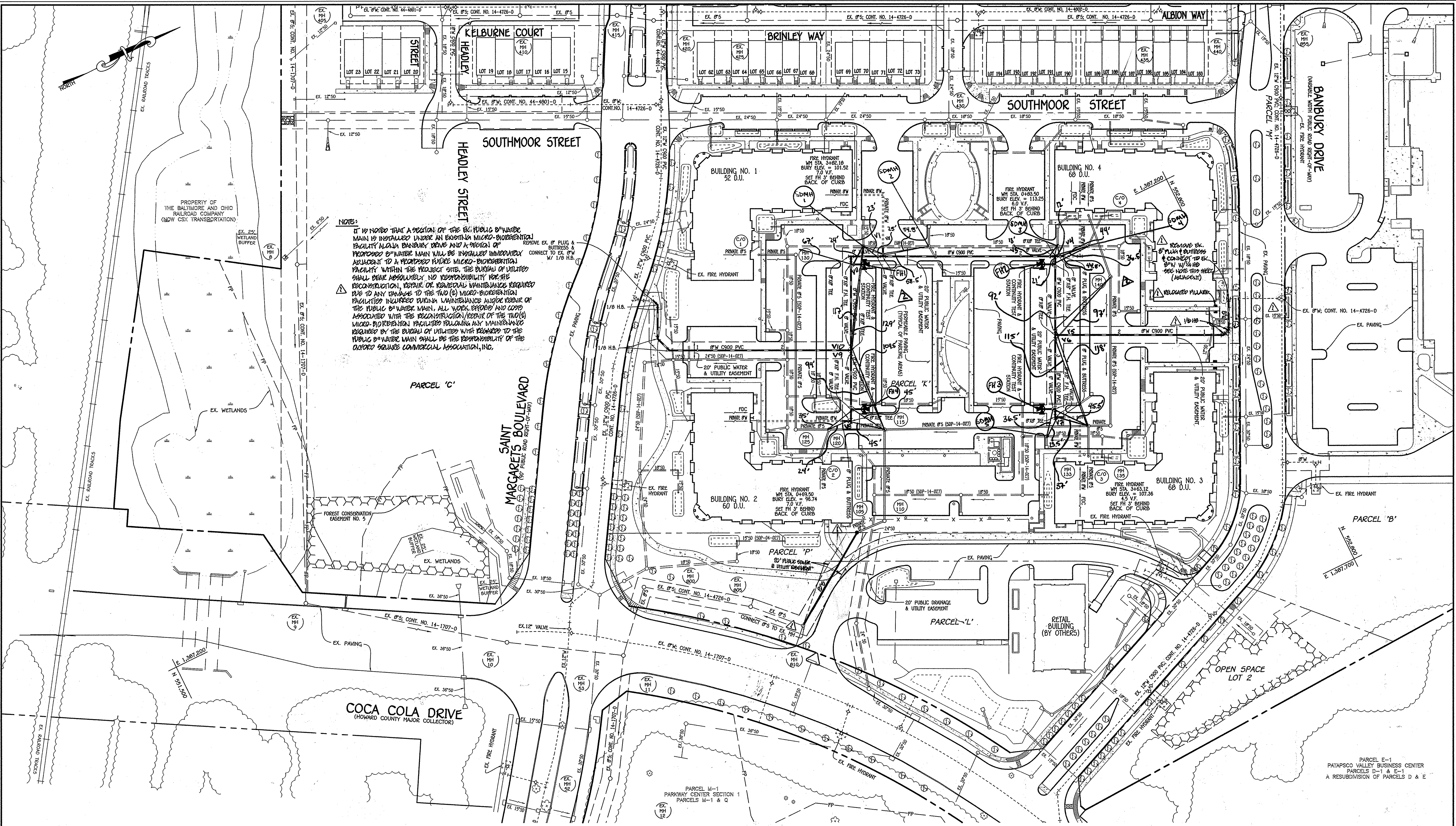
AS-BUILTS
 REVISE OFF-SITE 8" W. ALUM., 8" W. W. ALUM., AT BANBURY DR. 118-11
 DATE: 7/29/14

WATER & SEWER MAIN EXTENSIONS
 TITLE SHEET

600' SCALE MAP NO. 39 BLOCK NO. 19 & 20
 F.C.C. WORK ORDER NO. 09014-3008
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

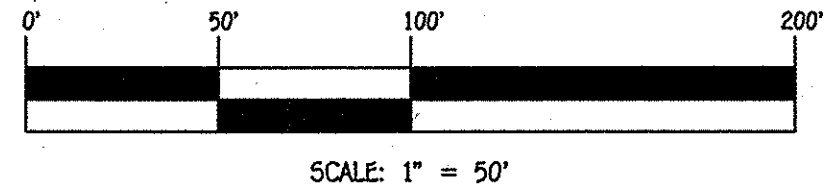
OXFORD SQUARE
 WOODFIELD
 PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4835-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 4



NOTE:
 IT IS NOTED THAT A SECTION OF THE EX. PUBLIC WATER MAIN IS INSTALLED UNDER AN EXISTING MICRO-BIODEGRADATION FACILITY ALONG BANBURY DRIVE AND A SECTION OF PROPOSED WATER MAIN WILL BE INSTALLED IMMEDIATELY ADJACENT TO A PROPOSED UNDER MICRO-BIODEGRADATION FACILITY WITHIN THE PROJECT SITE. THE BUREAU OF UTILITIES SHALL BEAR ABSOLUTELY NO RESPONSIBILITY FOR THE RECONSTRUCTION, REPAIR OR PERIODIC MAINTENANCE REQUIRED DUE TO ANY DAMAGE TO THE TWO (2) MICRO-BIODEGRADATION FACILITIES INCURRED DURING MAINTENANCE WORKS OF THE PUBLIC WATER MAIN. ALL WORK EXPENSES AND COSTS ASSOCIATED WITH THE RECONSTRUCTION/REPAIR OF THE TWO (2) MICRO-BIODEGRADATION FACILITIES FOLLOWING ANY MAINTENANCE REQUIRED BY THE BUREAU OF UTILITIES WITH REGARD TO THE PUBLIC WATER MAIN SHALL BE THE RESPONSIBILITY OF THE OXFORD SQUARE COMMERCIAL ASSOCIATION, INC.

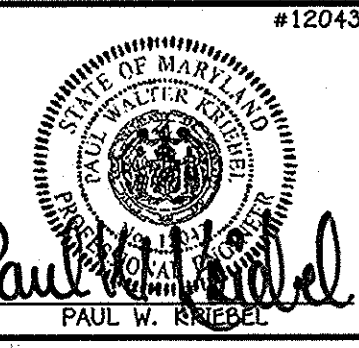
PLAN
 SCALE: 1" = 50'



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 5/22/14
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 5-28-14
 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 7/15/14.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
 GAITHERSBURG CITY, HOWARD COUNTY, MARYLAND 20878
 (410) 461-2255



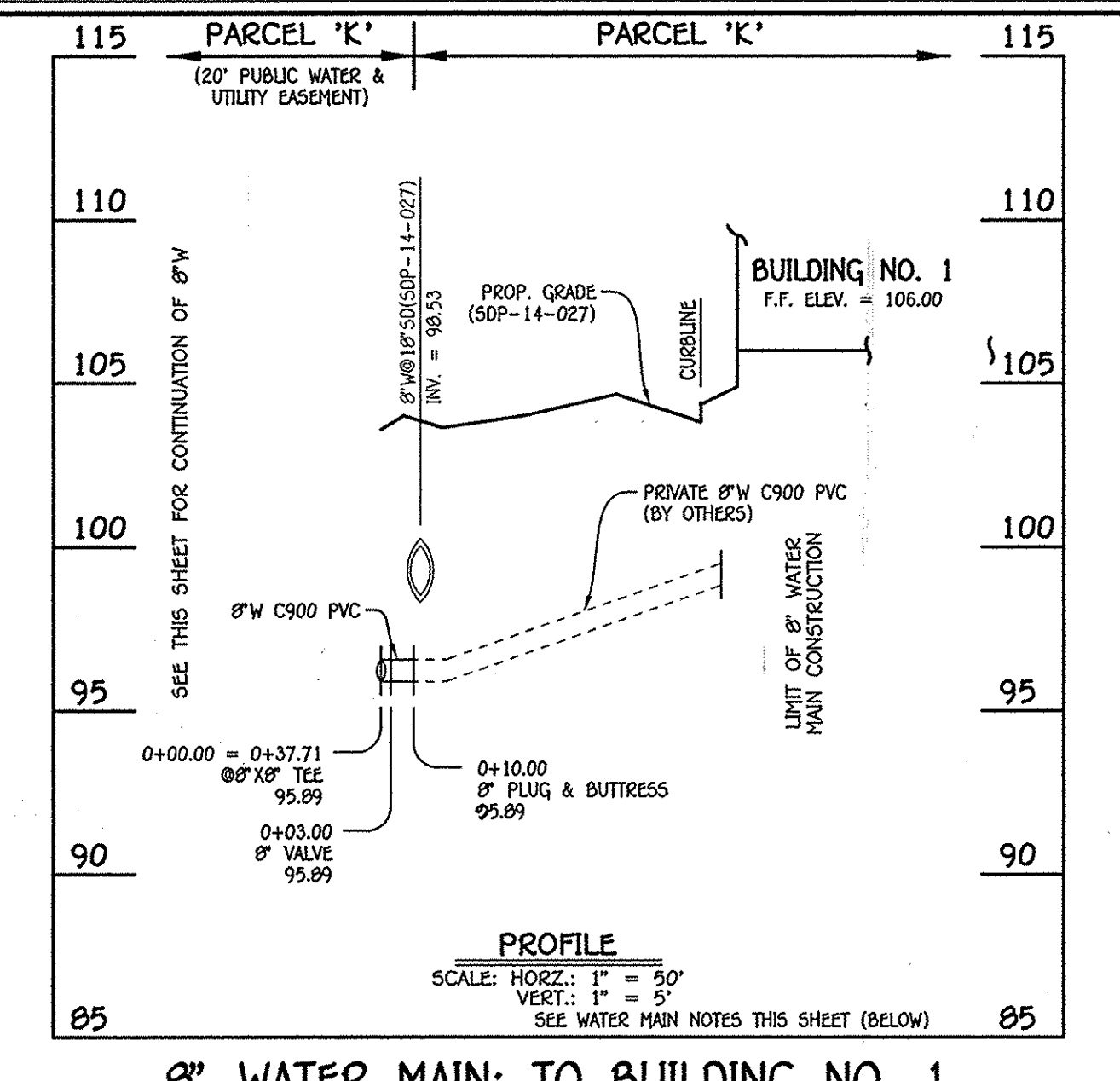
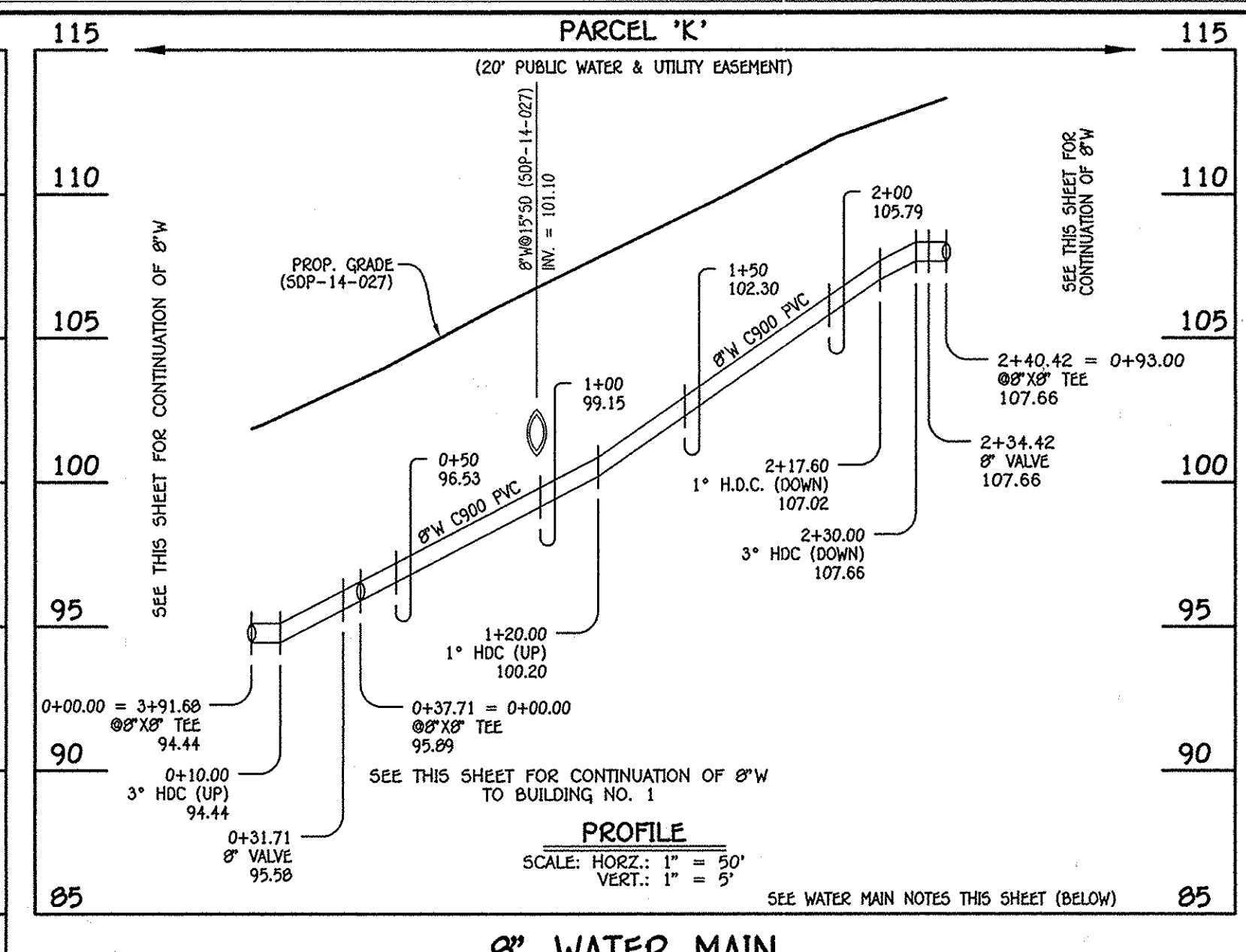
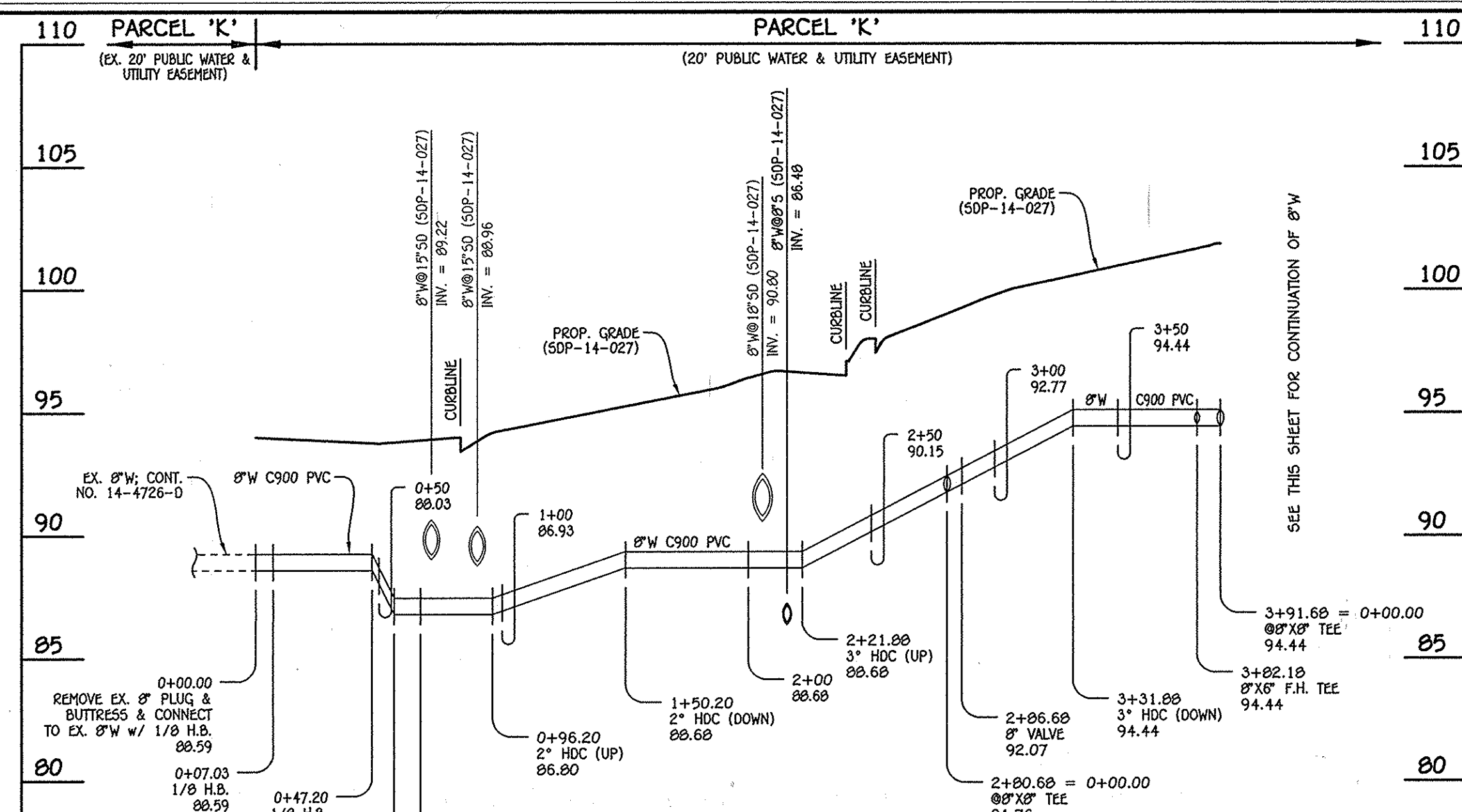
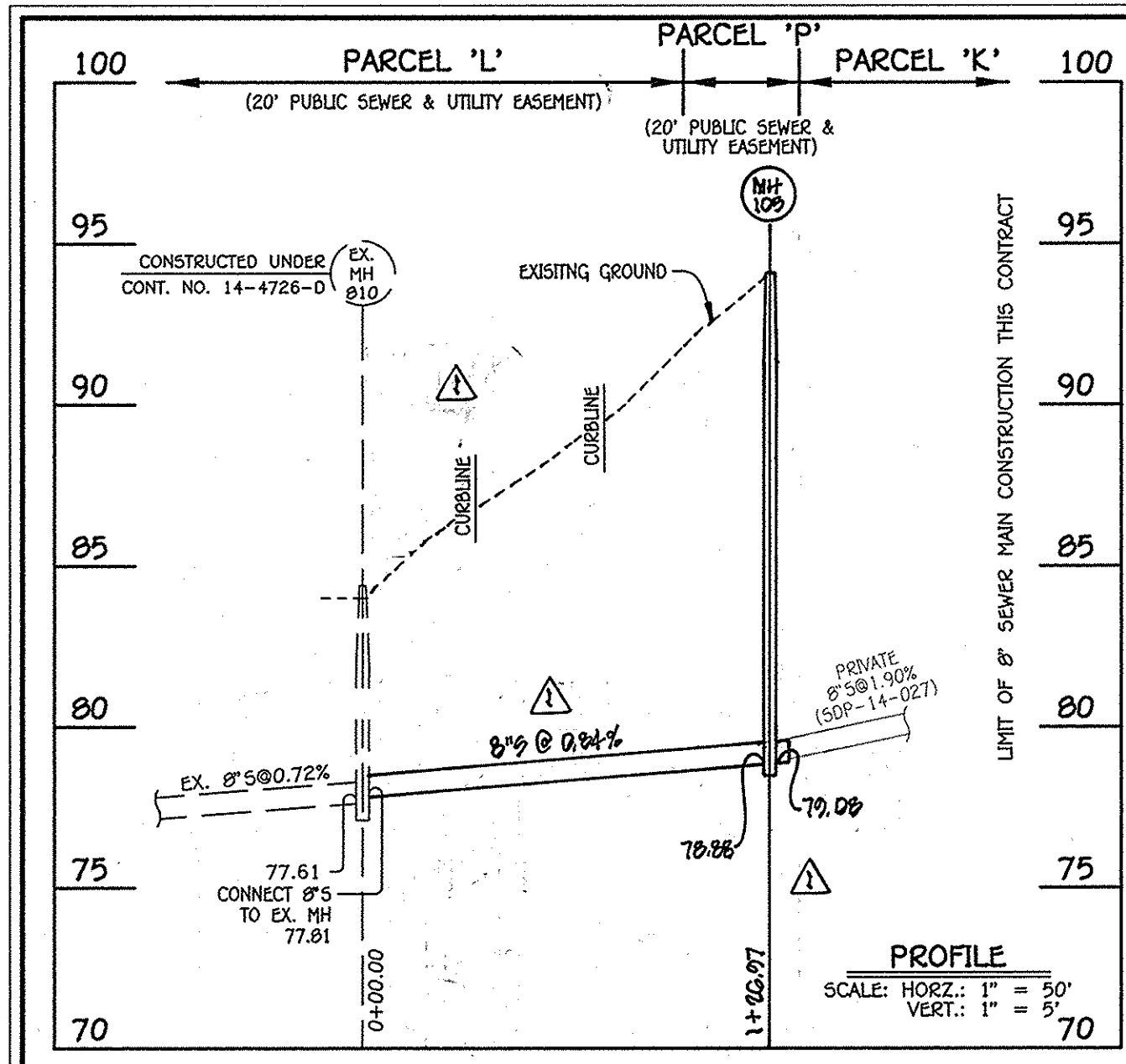
DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	AG - BULLER
P.M.K.	REVISE OFF SITE BY ALAN, REVISE B/W ALAN AT BANBURY DRIVE IN
DATE:	MAY, 2014
BY NO.	REVISION

WATER & SEWER MAIN EXTENSIONS PLAN
 600' SCALE MAP NO. 38 BLOCK NO. 19 & 20
 F.C.C. WORK ORDER NO. 09014-3008
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

OXFORD SQUARE WOODFIELD PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4835-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 4

I:\2009\09014\dwg\Water & Sewer\Contracts\3008 - Contract No. 14-4835-d (SOP-14-027)\F-14-1\Fields\09014-3008 Water and Sewer Contract Plan.dwg, Plan Sheet 2, 5/21/2014 4:44:40 PM



MANHOLE TABULATION CHART

NO.	NORTHING	EASTING	RIM ELEVATION
105	552288.63	1387413.08	93.93

WATER MAIN TABULATION CHART

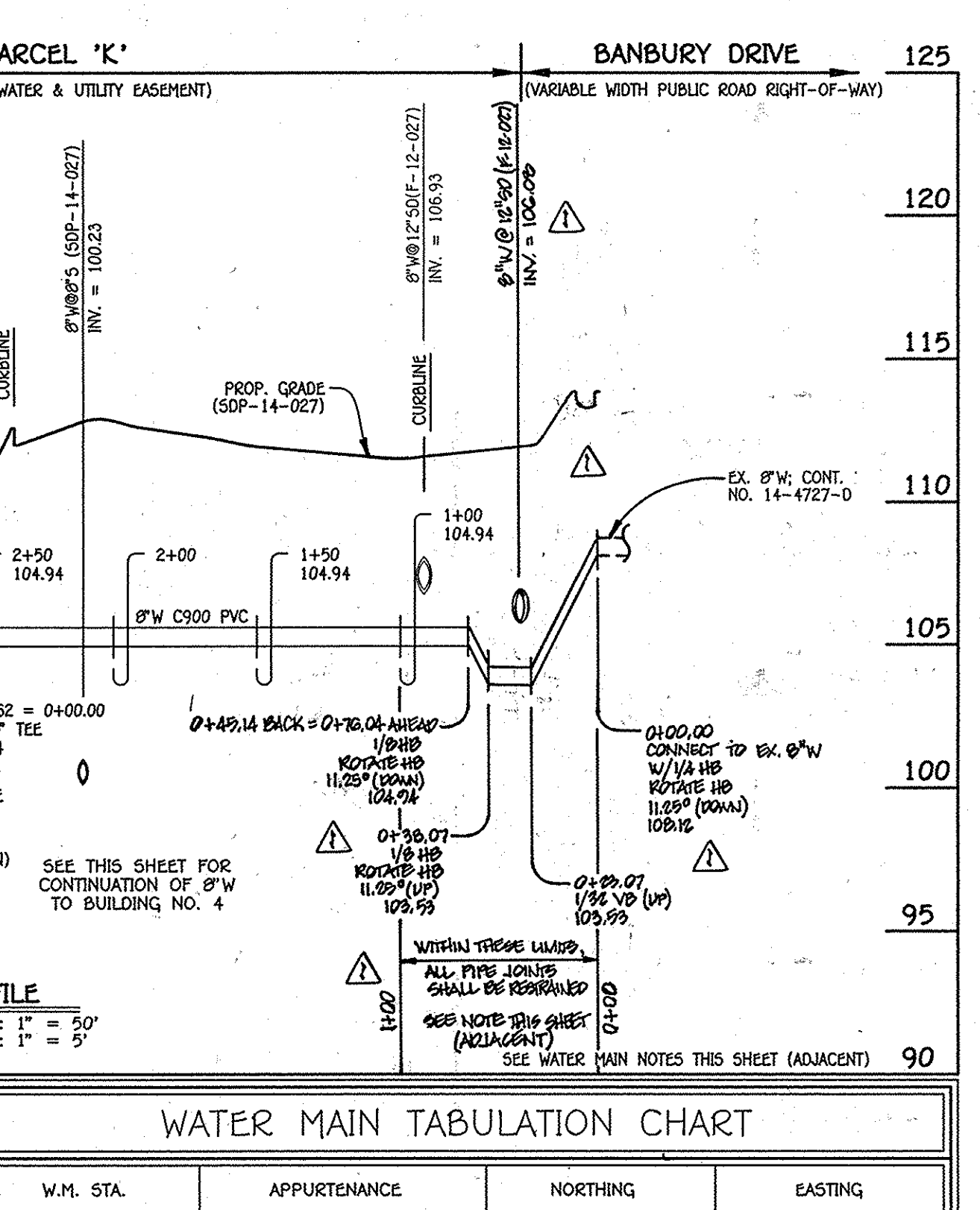
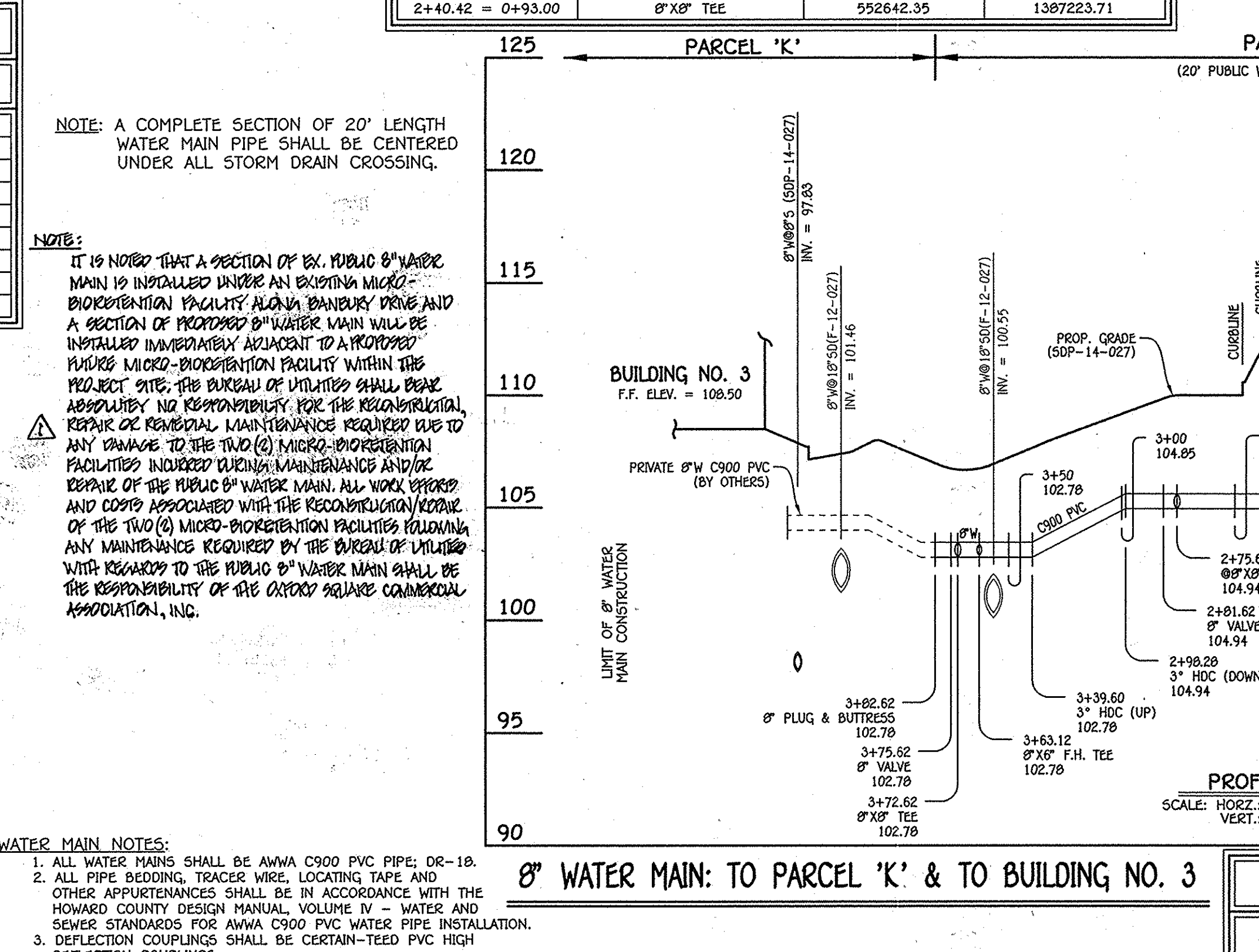
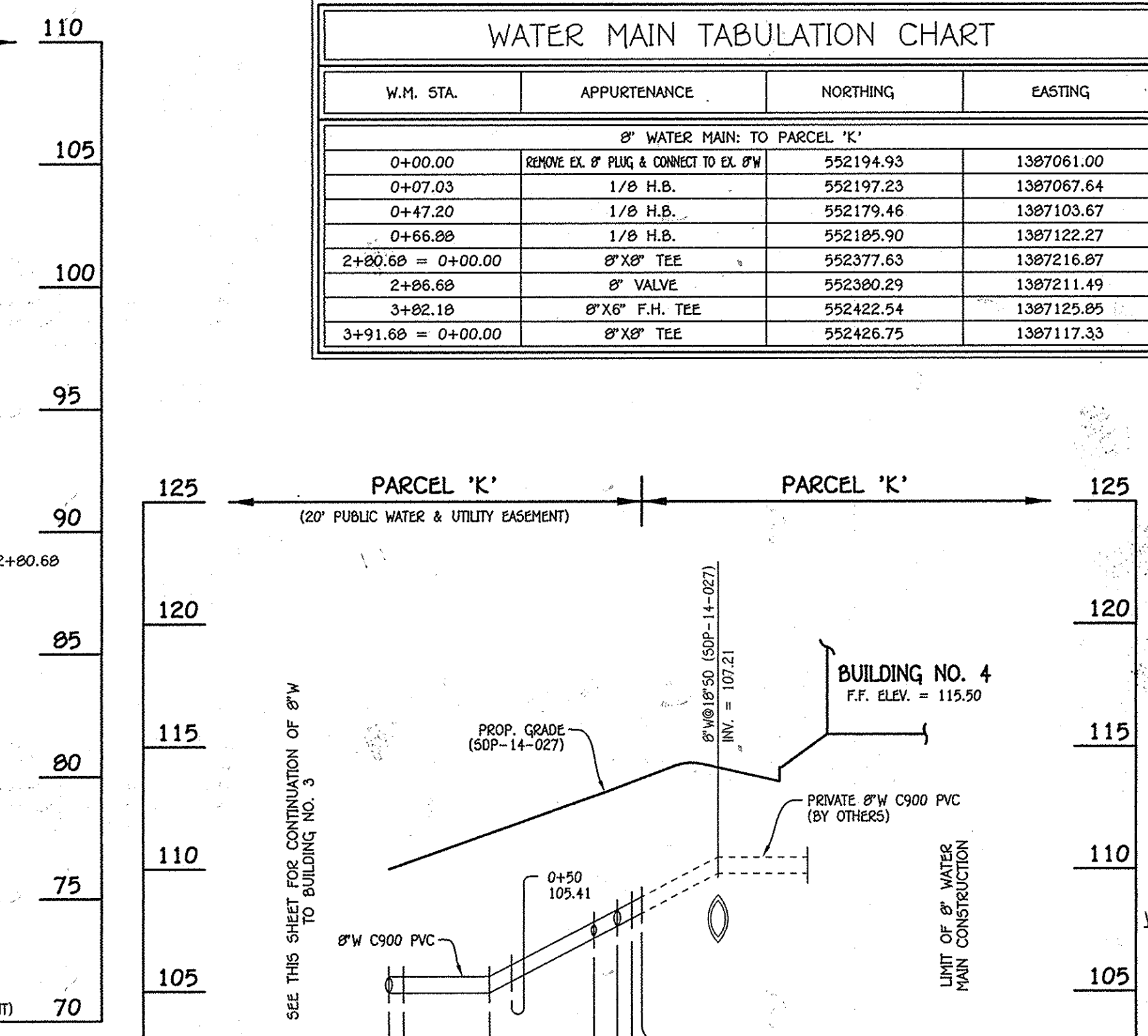
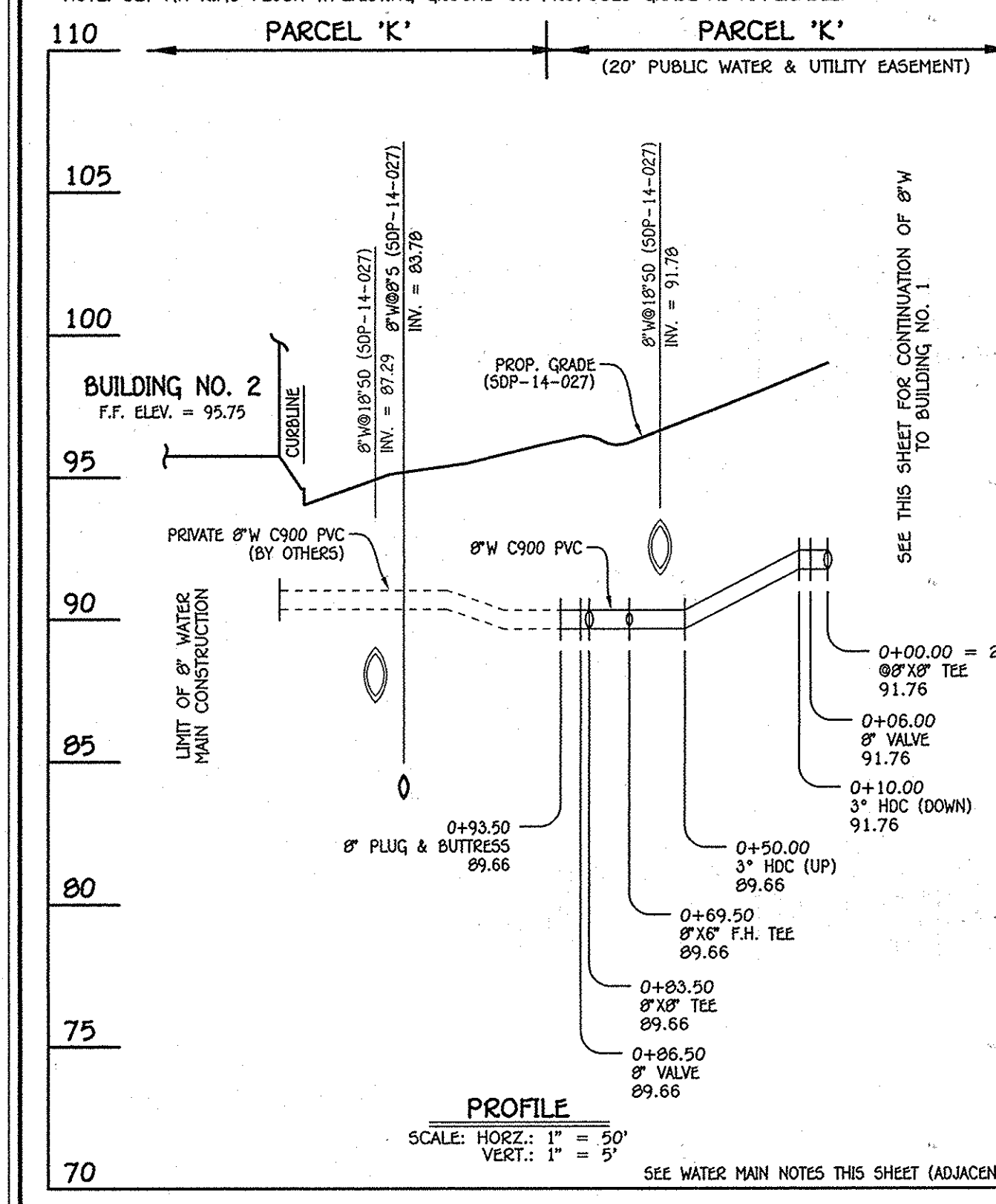
W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	REMOVE EX. 8" PLUG & BUTTRISS TO EX. 8" W/ 1/8" H.B.	552194.93	1387061.04
0+07.03	1/8" H.B.	552197.23	1387067.64
0+47.20	1/8" H.B.	552179.46	1387103.67
0+56.88	1/8" H.B.	552185.90	1387122.27
2+80.68	8" X 8" TEE	552377.63	1387216.87
2+86.88	8" VALVE	552380.29	1387211.49
3+82.18	8" X 6" F.H. TEE	552422.54	1387125.85
3+91.68	8" X 8" TEE	552426.75	1387117.33

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	8" WATER MAIN TO BUILDING NO. 1	552460.56	1387134.01
0+03.00	8" VALVE	552461.89	1387131.32
0+10.00	8" PLUG & BUTTRISS	552464.99	1387125.05

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	REMOVE EX. 8" PLUG & BUTTRISS TO EX. 8" W/ 1/8" H.B.	552194.93	1387061.04
0+07.03	1/8" H.B.	552197.23	1387067.64
0+47.20	1/8" H.B.	552179.46	1387103.67
0+56.88	1/8" H.B.	552185.90	1387122.27
2+80.68	8" X 8" TEE	552377.63	1387216.87
2+86.88	8" VALVE	552380.29	1387211.49
3+82.18	8" X 6" F.H. TEE	552422.54	1387125.85
3+91.68	8" X 8" TEE	552426.75	1387117.33



WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	8" WATER MAIN TO BUILDING NO. 2	552377.63	1387216.87
0+06.00	8" VALVE	552374.98	1387222.25
0+69.50	8" X 6" F.H. TEE	552346.88	1387279.20
0+83.50	8" X 8" TEE	552340.60	1387291.75
0+86.50	8" VALVE	552339.00	1387290.42
0+93.50	8" PLUG & BUTTRISS	552331.72	1387287.33

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	8" WATER MAIN TO BUILDING NO. 4	552601.20	1387307.11
0+06.00	8" VALVE	552603.85	1387301.73
0+83.50	8" X 6" F.H. TEE	552638.15	1387232.23
0+93.00	8" X 8" TEE	552642.35	1387223.71
0+99.00	8" VALVE	552647.73	1387226.36
1+03.00	8" PLUG & BUTTRISS	552651.32	1387228.13

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
0+00.00	8" WATER MAIN TO PARCEL 'K' & TO BUILDING NO. 3	552601.20	1387307.11
0+06.00	CONNECT W/ 1/4" H.B. EX. 8" W	552602.72	1387309.01
0+08.07	1/8" H.B.	552606.88	1387303.18
2+75.62	8" X 8" TEE	552601.20	1387307.11
2+81.62	8" VALVE	552598.54	1387312.49
3+63.12	8" X 6" F.H. TEE	552582.48	1387385.58
3+72.62	8" X 8" TEE	552558.28	1387394.10
3+75.62	8" VALVE	552567.25	1387395.42
3+82.62	8" PLUG & BUTTRISS	552567.25	1387395.42
3+82.62	1/8" H.B.	552760.18	1387395.42

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

1. 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 7/16/14.

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

CONTINENTAL SERVICE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895

DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.M.K.
DATE: MAY, 2014

DATE: 5-28-14

1. ALL WATER MAINS SHALL BE AMWA C900 PVC PIPE, DR-18.
2. 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.
3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEE PVC HIGH DEFLECTION COUPLINGS.
4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

WATER MAIN NOTES:

NOTE: A COMPLETE SECTION OF 20' LENGTH WATER MAIN PIPE SHALL BE CENTERED UNDER ALL STORM DRAIN CROSSING.

NOTE: IT IS NOTED THAT A SECTION OF EX. PUBLIC WATER MAIN IS INSTALLED UNDER AN EXISTING MICRO-BIORETENTION FACILITY ALONG BANBURY DRIVE AND A SECTION OF PROPOSED WATER MAIN WILL BE INSTALLED IMMEDIATELY ADJACENT TO A PROPOSED MICRO-BIORETENTION FACILITY WITHIN THE PROJECT SITE. THE BUREAU OF UTILITIES SHALL BEHE ABSOLUTELY NO RESPONSIBILITY FOR THE RECONSTRUCTION, REPAIR OR MAINTENANCE REQUIRED DUE TO ANY DAMAGE TO THE TWO (2) MICRO-BIORETENTION FACILITIES INCURRED DURING MAINTENANCE AND/OR REPAIR OF THE PUBLIC WATER MAIN. ALL WORK EFFORT AND COSTS ASSOCIATED WITH THE RECONSTRUCTION/REPAIR OF THE TWO (2) MICRO-BIORETENTION FACILITIES FOLLOWING ANY MAINTENANCE REQUIRED BY THE BUREAU OF UTILITIES WITH REGARD TO THE PUBLIC WATER MAIN SHALL BE THE RESPONSIBILITY OF THE OXFORD SQUARE COMMERCIAL ASSOCIATION, INC.

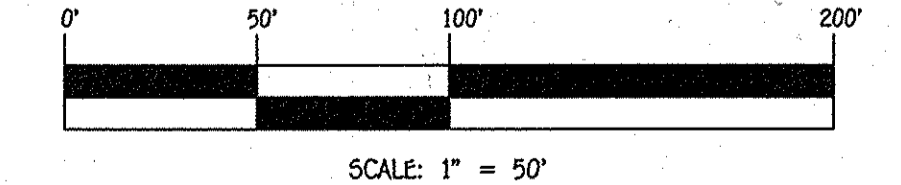
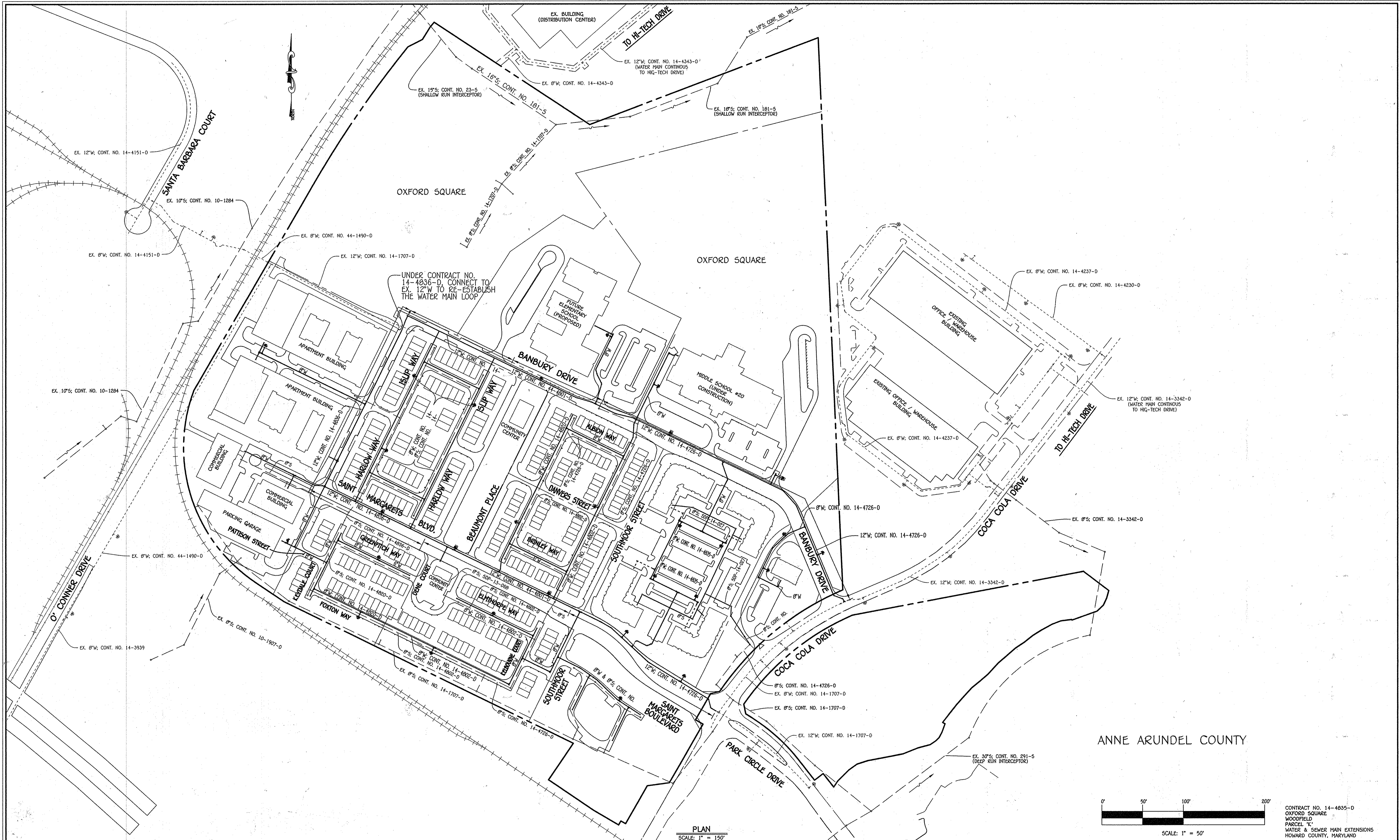
WATER MAIN NOTES:

OXFORD SQUARE
WOODFIELD
PARCEL 'K'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4835-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'

SCALE AS SHOWN

SHEET 3 OF 4



CONTRACT NO. 14-4835-D
 OXFORD SQUARE
 WOODFIELD
 PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Steve Lee
 CHIEF, BUREAU OF UTILITIES

DATE: 5-28-14

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

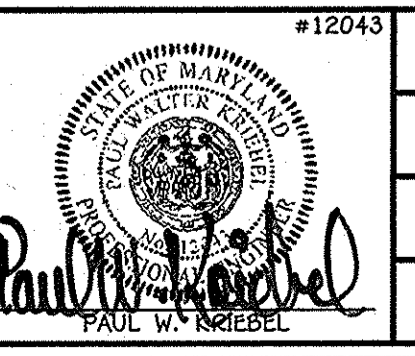
Paul W. Szeibel
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 5-28-14

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 7/16/14.

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

CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLSWORTH CITY, MARYLAND 21041
 (410) 461-2255



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.M.K.
DATE:	MAY, 2014
BY NO.	
REVISION	
DATE	

WATER & SEWER MAIN EXTENSIONS OVERVIEW	
600' SCALE MAP NO. 30	BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3008	
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	

OXFORD SQUARE
 WOODFIELD
 PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4835-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 4 OF 4

I:\2009\09014.dwg Water & Sewer Contracts\3008 - Contract No. 14-4835-D (SOP-14-023)F-14-1\Fields\09014-3008 Water and Sewer Contract Plan - Sheet 4.dwg, Sheet 4, 5/21/2014 10:35:56 PM