

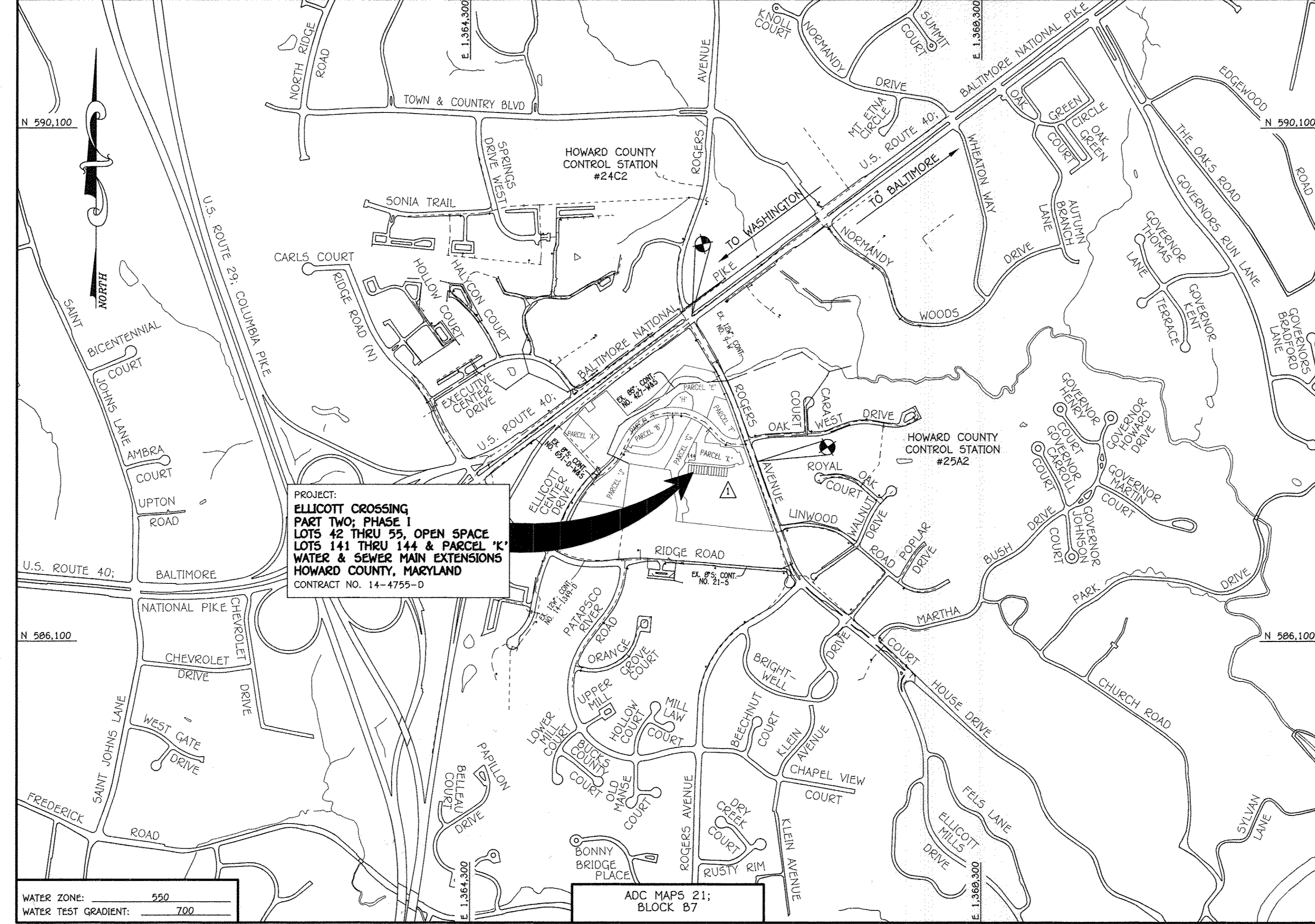
QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		SUPPLIER
		QUANTITIES	TYPE	
8" PVC	607 L.F.	607 LF	PVC SDR 35	NATIONAL PIPE-PLASTICS
6" PVC	85 L.F.	85 LF	PVC SDR 35	NATIONAL PIPE-PLASTICS
4" PVC	181 L.F.	181 LF	PVC SDR 35	NATIONAL PIPE-PLASTICS
MANHOLE	4 EACH	4 EA		
8" PLUG	1 EACH	1 EA		
8" C900 PVC, DR-18	584 L.F.	584 LF	C900 DR18 PVC	TYLER/UNION FOUNDRY
6" C900 PVC, DR-18	46 L.F.	46 LF	C900 DR18 PVC	NATIONAL PIPE-PLASTICS
1"-1/2" WHC	210 L.F.	210 LF	TYPE K SDR 35	MUELLER INDUSTRIES
2" DEFLECTION COUPLING	1 EACH	1 EA	PVC C900	FERGUSON/MUELLER IND.
1/16" H.B.	3 EACH	3 EA	PVC C900	FERGUSON/MUELLER IND.
1/32" H.B.	2 EACH	2 EA	PVC C900	FERGUSON/MUELLER IND.
8" X8" TEE	2 EACH	2 EA	ATI C153	TYLER/UNION FOUNDRY
8" X8" TEE	2 EACH	2 EA	ATI C153	TYLER/UNION FOUNDRY
8" VALVE	6 EACH	6 EA	ATI A23036 V.O.R.	MUELLER COMPANY
6" VALVE	2 EACH	2 EA	ATI A23036 V.O.R.	MUELLER COMPANY
FIRE HYDRANT	2 EACH	2 EA	A423	MUELLER COMPANY
8" PLUG & BUTTRESS	2 EACH	2 EA	PVC C900	FERGUSON/MUELLER IND.
CONTINUITY TEST STATION	2 EACH	2 EA	PRECAST VAULT	
12" H.T.S. & V.	1 EACH	1 EA	#66355	MUELLER COMPANY
1/8" H.B.	3 EACH	3 EA	PVC C900	FERGUSON/MUELLER IND.
SINGLE OUTSIDE METER SETTING	14 EACH	14		FERGUSON / AY McDONALD
TWIN OUTSIDE METER SETTING				
AIR RELEASE VALVE & MANHOLE	1 EACH	1 EA		FERGUSON / AY McDONALDSON

NAME OF UTILITY CONTRACTOR: CONSOLIDATED CONSTRUCTION SERVICES, INC.
SURVEY & DRAFTING DIVISION AS-BUILT DATE: APRIL 8, 2015

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #24C2 - HORIZONTAL - NAD '83
(LOCATED IN THE MIDDLE OF MD ROUTE 40; BALTIMORE NATIONAL PIKE, IN THE NORTHEAST CORNER OF THE MEDIAN, AT THE INTERSECTION OF ROGERS AVENUE AND MD ROUTE 40)
N 598,648.3703
E 1,366,603.1388
ELEVATION = 354.017 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #25A2 - HORIZONTAL - (NAD '83)
(LOCATED ALONG ROGERS AVENUE, SOUTH OF OAK WEST DRIVE, APPROX. 6.2' SW OF SANITARY MANHOLE, ALONG THE EAST SIDE OF ROAD, APPROX. 67.8' NORTH OF HOUSE NO. 3329)
N 567,502.7292
E 1,366,556.3776
ELEVATION = 348.145 - VERTICAL - (NAVD '88)



TYPE OF BUILDING: RESIDENTIAL (TOWNHOUSE / CONDOMINIUMS) & COMMERCIAL (RETAIL)
NUMBER OF LOTS: 14 (RESIDENTIAL), COMMERCIAL (1 PARCEL)
NO. OF WATER HOUSE CONNECTIONS: 14
NO. OF SEWER HOUSE CONNECTIONS: 14
SEWER SHED: PATAPSCO
TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

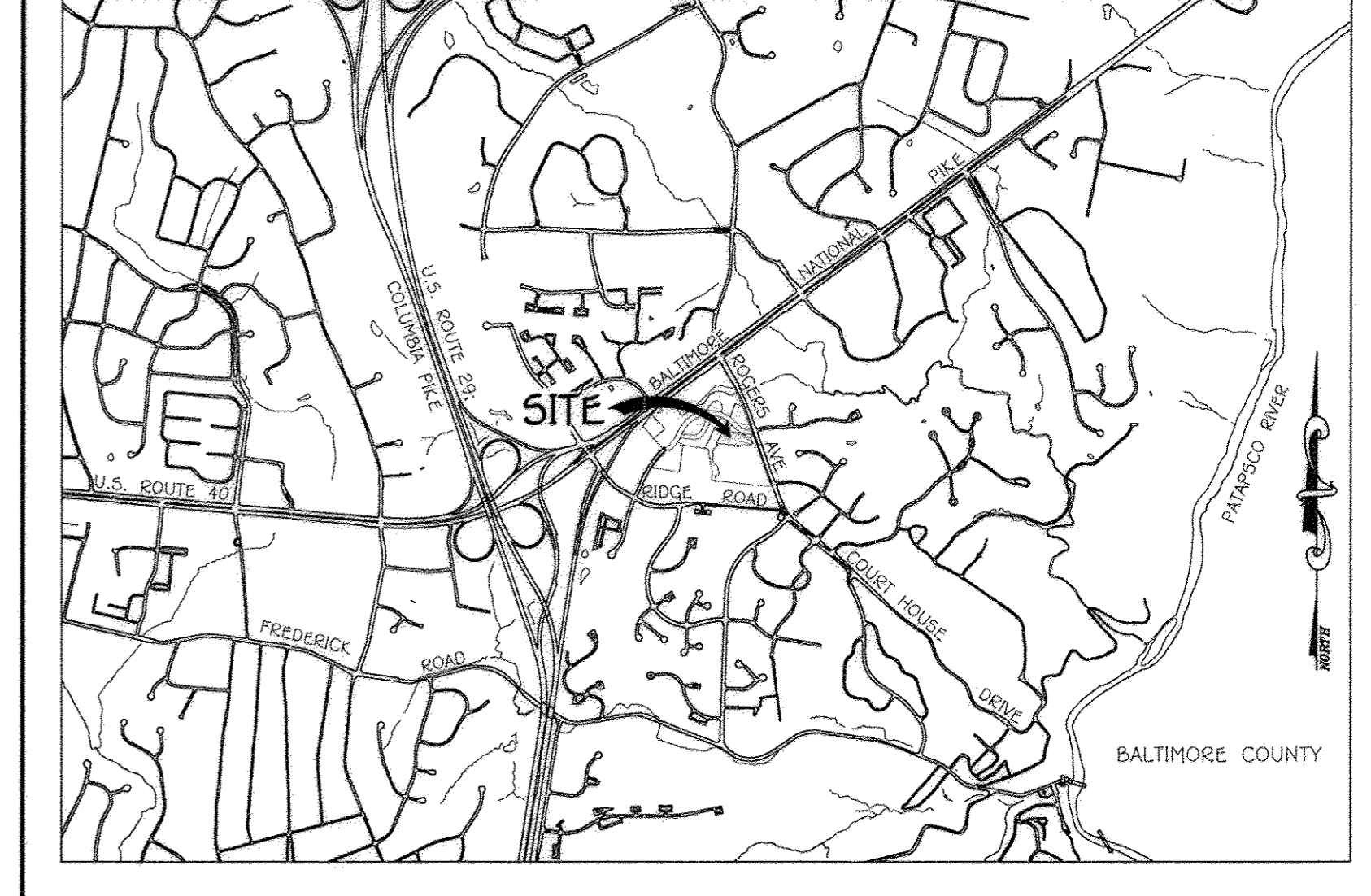
LOCATION MAP

SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
SDP-13-004 F-13-043 (RECORD PLAT)

CONTRACT NO. 14-4755-D
ELLICOTT CROSSING
PART TWO; PHASE I
LOTS 42 THRU 55, OPEN SPACE
LOTS 141 THRU 144 &
PARCEL 'K'
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 1 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING & ZONING ON MAY 24, 2013.



VICINITY MAP

SCALE: 1" = 2000'

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 MARCH, 2011 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 STATIONS NO. 24C2 & NO. 25A2. 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.
 - ALL UTILITIES SHALL BE DEEPER THAN 12 INCHES CLEAR ALL POLES BY 7'-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 (S) 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 MADE 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
SCS (CONTRACTOR SERVICES)	410-637-8713
SCS (EMERGENCY)	410-689-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MESSE 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 ALL EXISTING TREES, STUMPS AND ROOTS ALONG 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 WORKINGS, 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(b) 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 STAMPED TO TEES.
 - ALL FITTINGS SHALL BE BRASS 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 SPECIFICATIONS SHALL BE SUBMITTED WITH THE PIPE MATERIAL. CERTIFICATIONS OF 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 HANGES. 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 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 COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTION 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 500 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 (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 PLUG ENDS INTO THE BELL 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 FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOP SHALL BE SERVED 3000 MEGA-STOP, AS MANUFACTURED BY FEA MAN, INC. OR APPROX. EQUAL.
 - TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.2B.
- 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.

OWNERS

HOWARD COUNTY MD
3330 ROGERS AVENUE LLC
SUITE 102
4330 DORSEY HALL DRIVE
ELLICOTT CITY, MD 21042
410-313-4400

DEVELOPER

3330 ROGERS AVENUE LLC
SUITE 102
5300 DORSEY HALL DRIVE
ELLICOTT CITY, MD 21042
443-367-0422

CONTRACT NO. 14-4755-D

ELLICOTT CROSSING
PART TWO; PHASE I
LOTS 42 THRU 55, OPEN SPACE
LOTS 141 THRU 144 & PARCEL 'K'
WATER & SEWER MAIN EXTENSIONS
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. Kriebel; FOR:
3330 ROGERS AVENUE LLC
SIGNATURE OF DEVELOPER
07/28/14
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. Kriebel
SIGNATURE OF ENGINEER
07-28-14
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 SITE DEVELOPMENT PLAN, SDP-13-004.

Paul W. Kriebel; FOR:
3330 ROGERS AVENUE LLC
SIGNATURE OF DEVELOPER
07/28/14
DATE

SDP-13-004

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

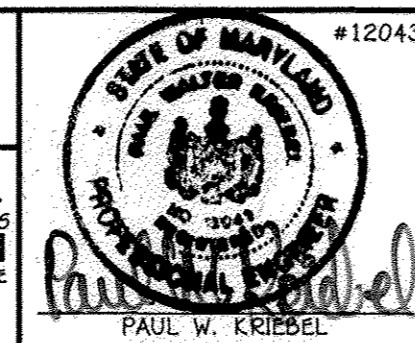
APPROVED:
John R. Roberts
HOWARD SOIL CONSERVATION DISTRICT
07/14
DATE

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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.



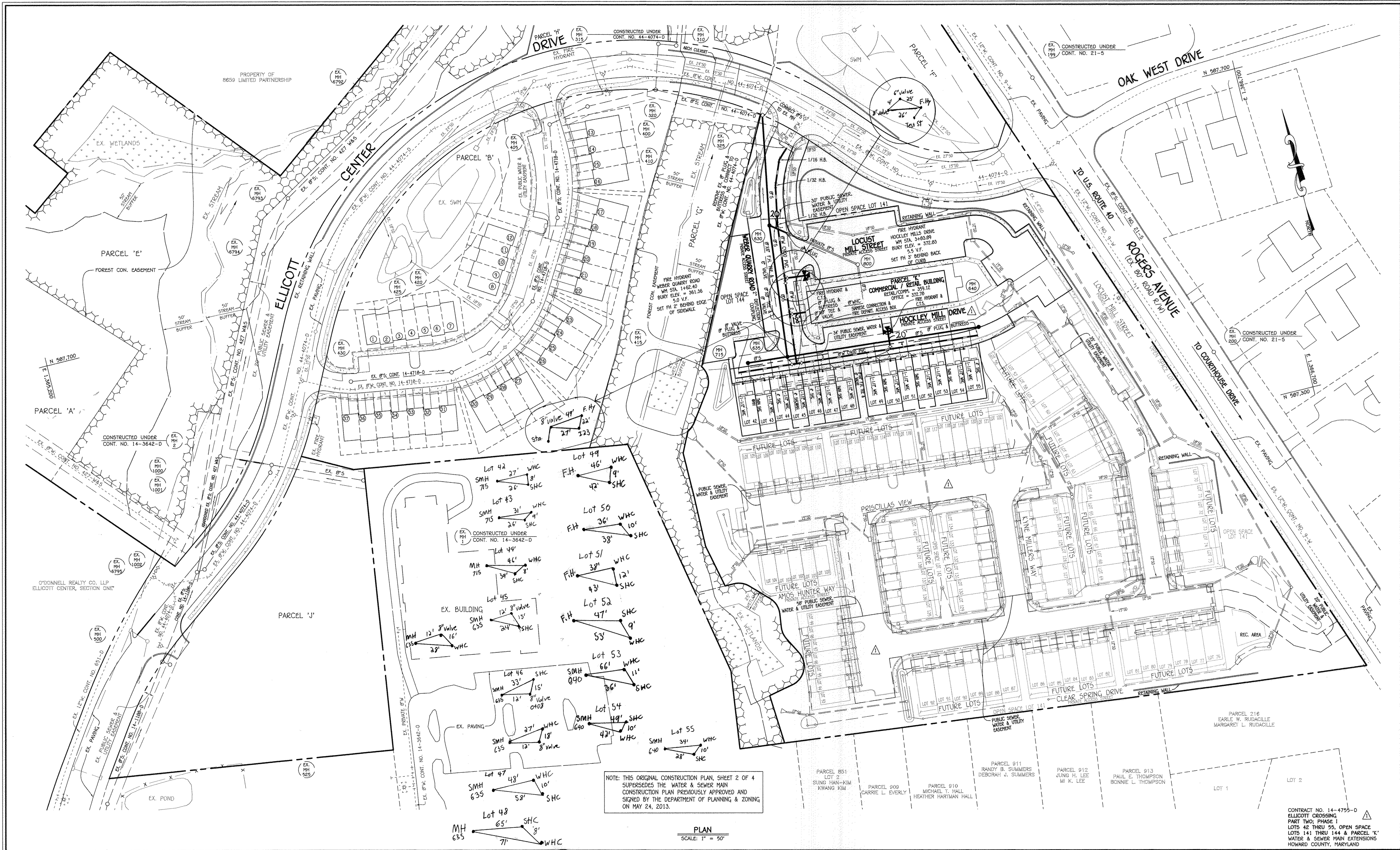
DESIGNED BY: B.C.R.	
DRAWN BY: B.C.R.	
CHECKED BY: P.W.K.	
DATE: JULY, 2014	
BY NO.	

WATER & SEWER MAIN EXTENSIONS TITLE SHEET	
600' SCALE MAP NO. 24/25, BLOCK NO. 6/1	
F.C.C. WORK ORDER NO. 10040	
FILE NAME: WATER & SEWER MAIN EXTENSION TITLE SHEET	

SCALE AS SHOWN
SHEET 1 OF 4

John R. Roberts
CHIEF, BUREAU OF UTILITIES
8/6/14
DATE

Paul W. Kriebel
CHIEF, DEVELOPMENT ENGINEERING DIVISION
8-12-14
DATE



NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING & ZONING ON MAY 24, 2013.

PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

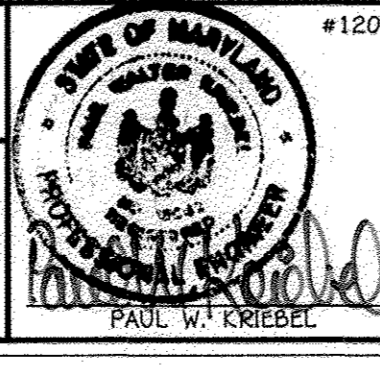
M. Willy 8/6
8/9/14
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chad Edin
DATE 8.12.14
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. 12043 EXPIRATION DATE IS 7/16/14.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PkE
ELICOTT CITY, MARYLAND 21042
(410) 461-2095

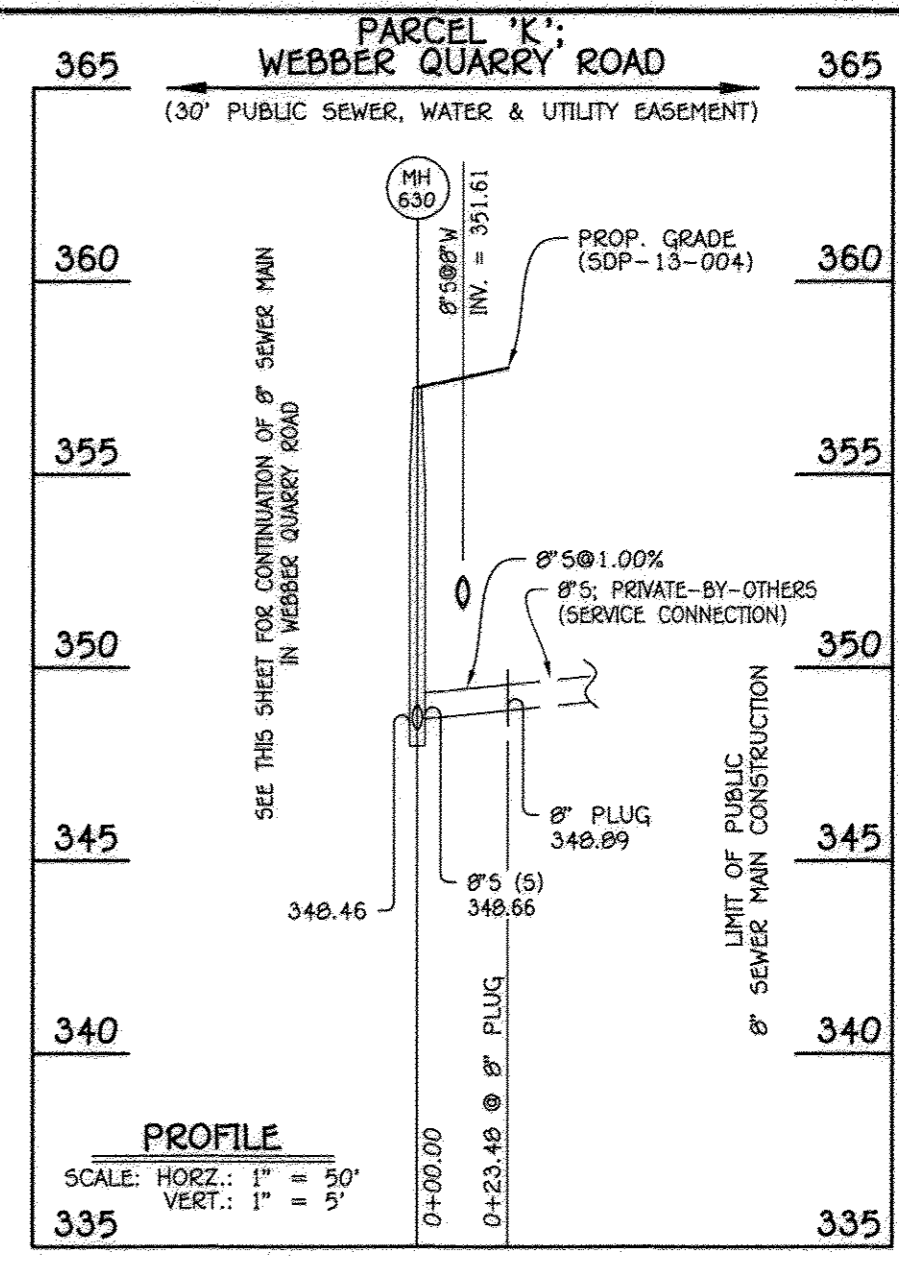
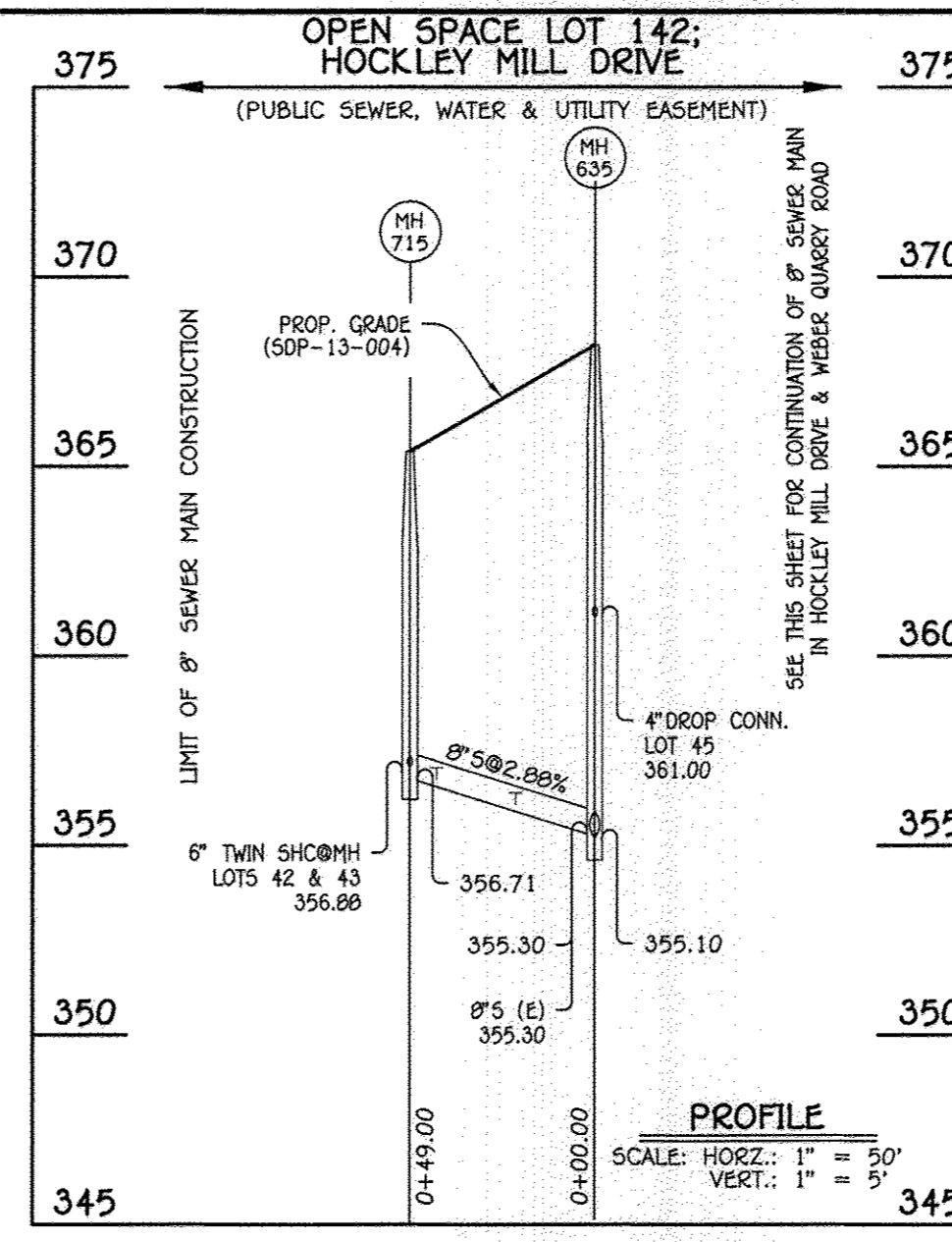
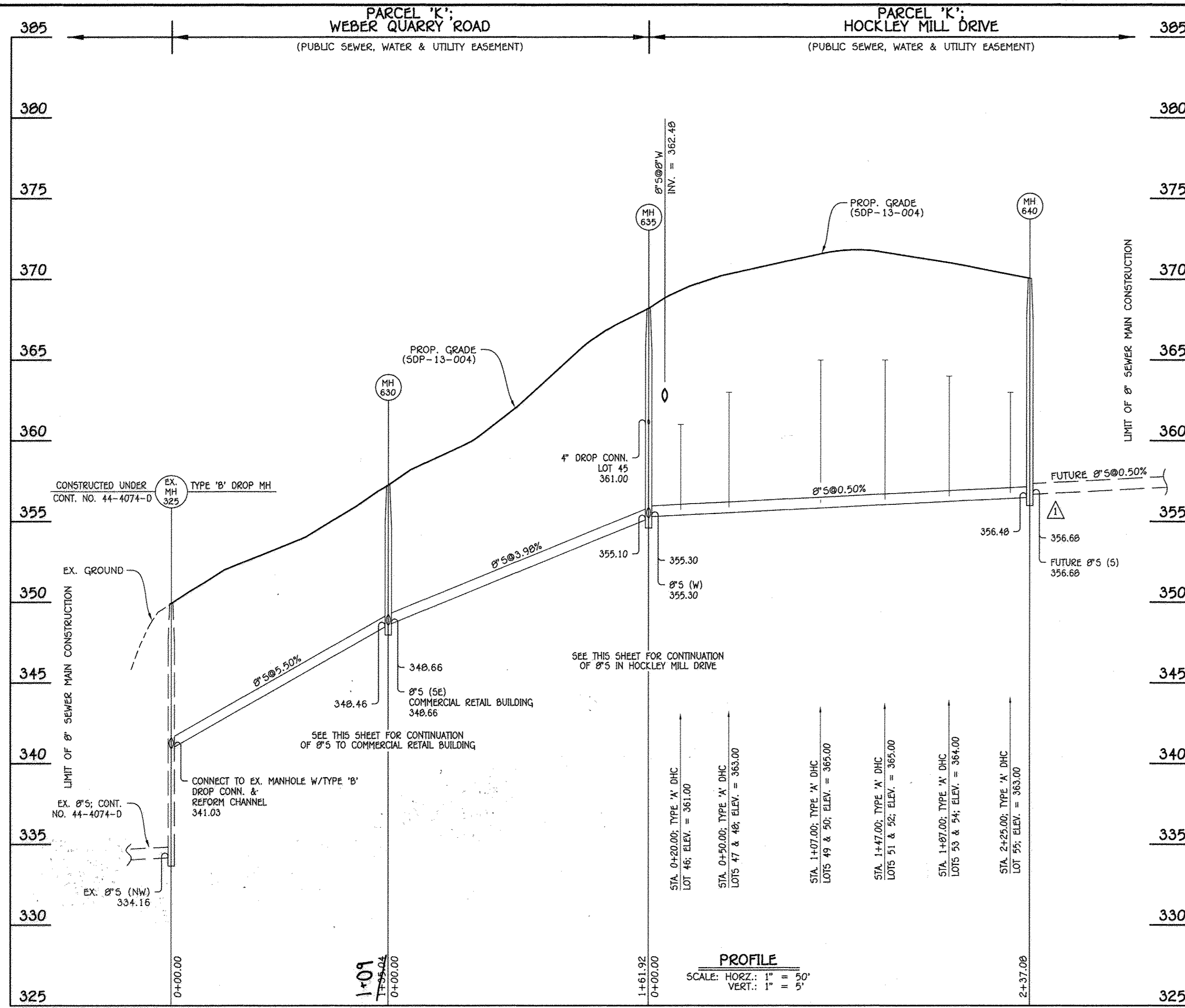


DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	JULY, 2014
BY NO.	
REVISION	
DATE	

WATER & SEWER MAIN EXTENSIONS PLAN	
60' SCALE MAP NO. 24/25	BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040	
FILE NAME:	WATER & SEWER MAIN EXTENSION PLAN

ELICOTT CROSSING
PART TWO; PHASE I
LOTS 42 THRU 55, OPEN SPACE LOTS 141 THRU 144 & PARCEL 'K'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4755-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 4



8" SEWER MAIN: HOCKLEY MILL ROAD

8" SEWER MAIN: COMMERCIAL / RETAIL BUILDING- PARCEL 'K'

NO.	NORTHING	EASTING	RIM ELEVATION
635	587491.16	1366083.86	368.20
715	587495.54	1366035.05	365.39

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

NO.	NORTHING	EASTING	RIM ELEVATION
630	587652.17	1366101.08	357.24
8" PLUG	587637.79	1366119.64	---

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	SLAB
MH 635 TO MH 715					
0+21 LT.	44	356.17	356.65	360.51	378.50
0+49 LT.	43	357.11	357.59	361.45	377.83
0+49 LT.	42	357.11	357.59	361.45	377.83

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
42	HOCKLEY MILL DRIVE	SMH 715	26' W/HC LOT 42 8'
43	HOCKLEY MILL DRIVE	SMH 715	26' W/HC LOT 43 9'
44	HOCKLEY MILL DRIVE	SMH 715	39' W/HC LOT 44 8'
45	HOCKLEY MILL DRIVE	SMH 635	24' 8" VALVE 15'
46	HOCKLEY MILL DRIVE	SMH 635	53' 8" VALVE 15'
47	HOCKLEY MILL DRIVE	SMH 635	58' W/HC LOT 47 10'
48	HOCKLEY MILL DRIVE	SMH 635	65' W/HC LOT 48 8'
49	HOCKLEY MILL DRIVE	F.H.	42' W/HC LOT 49 9'
50	HOCKLEY MILL DRIVE	F.H.	38' W/HC LOT 50 10'
51	HOCKLEY MILL DRIVE	F.H.	43' W/HC LOT 51 10'
52	HOCKLEY MILL DRIVE	F.H.	53' W/HC LOT 52 9'
53	HOCKLEY MILL DRIVE	SMH 640	36' W/HC LOT 53 11'
54	HOCKLEY MILL DRIVE	SMH 640	49' W/HC LOT 54 10'
55	HOCKLEY MILL DRIVE	SMH 640	28' W/HC LOT 55 10'

8" SEWER MAIN: WEBER QUARRY ROAD, HOCKLEY MILL DRIVE, LOCUST MILL STREET & CLEAR SPRING DRIVE

NO.	NORTHING	EASTING	RIM ELEVATION
630	587652.17	1366101.08	357.24
635	587491.16	1366083.86	368.20
640	587469.96	1366320.00	370.06
	587499.11	1366401.17	365.84

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	SLAB
MH 630 TO MH 635					
0+20 RT.	45 (DHC)	361.00	361.48	365.34	378.50
MH 635 TO MH 640					
0+20 RT.	46 (DHC)	361.00	361.48	365.34	379.16
0+50 RT.	47 (DHC)	363.00	363.48	367.34	379.83
0+50 RT.	48 (DHC)	363.00	363.48	367.34	379.83
1+07 RT.	49 (DHC)	365.00	365.48	369.34	380.10
1+07 RT.	50 (DHC)	365.00	365.48	369.34	380.13
1+47 RT.	51 (DHC)	365.00	365.48	369.34	380.13
1+47 RT.	52 (DHC)	365.00	365.48	369.34	376.46
1+87 RT.	53 (DHC)	364.00	364.48	368.34	379.46
1+87 RT.	54 (DHC)	364.00	364.48	368.34	378.79
2+25 RT.	55 (DHC)	363.00	363.48	367.34	378.12

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 3 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING & ZONING ON MAY 24, 2013.

CONTRACT NO. 14-4755-D
ELLICOTT CROSSING
PART TWO: PHASE 1
LOTS 42 THRU 55, OPEN SPACE
LOTS 141 THRU 144 & PARCEL 'K'
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8/14/14

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
8.12.14

FISHER, COLLINS & CARTER, INC.
CENTRAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2895

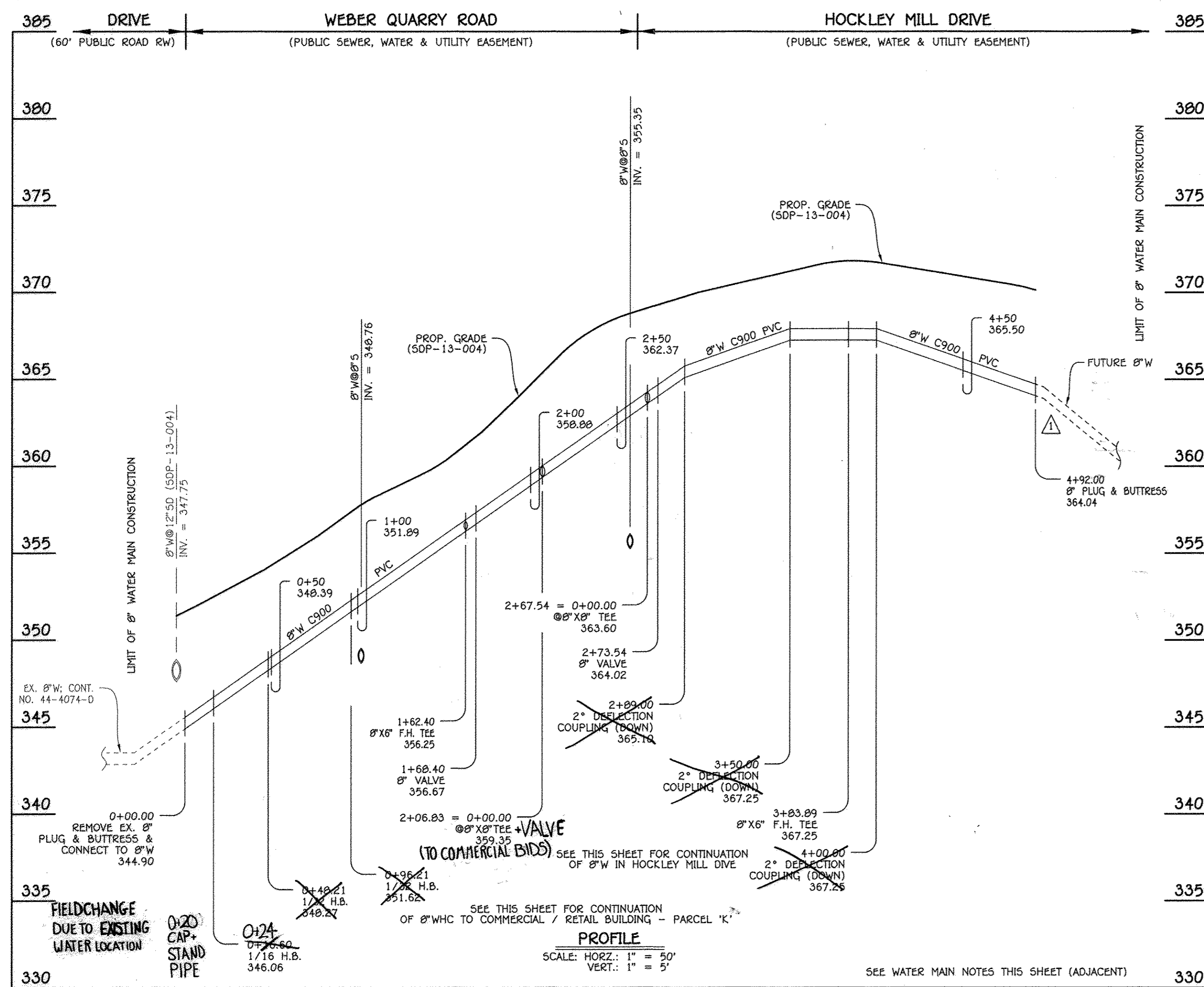


DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: JULY, 2014

SEWER MAIN EXTENSIONS
PROFILES, CHARTS & TABLES
600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040
FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

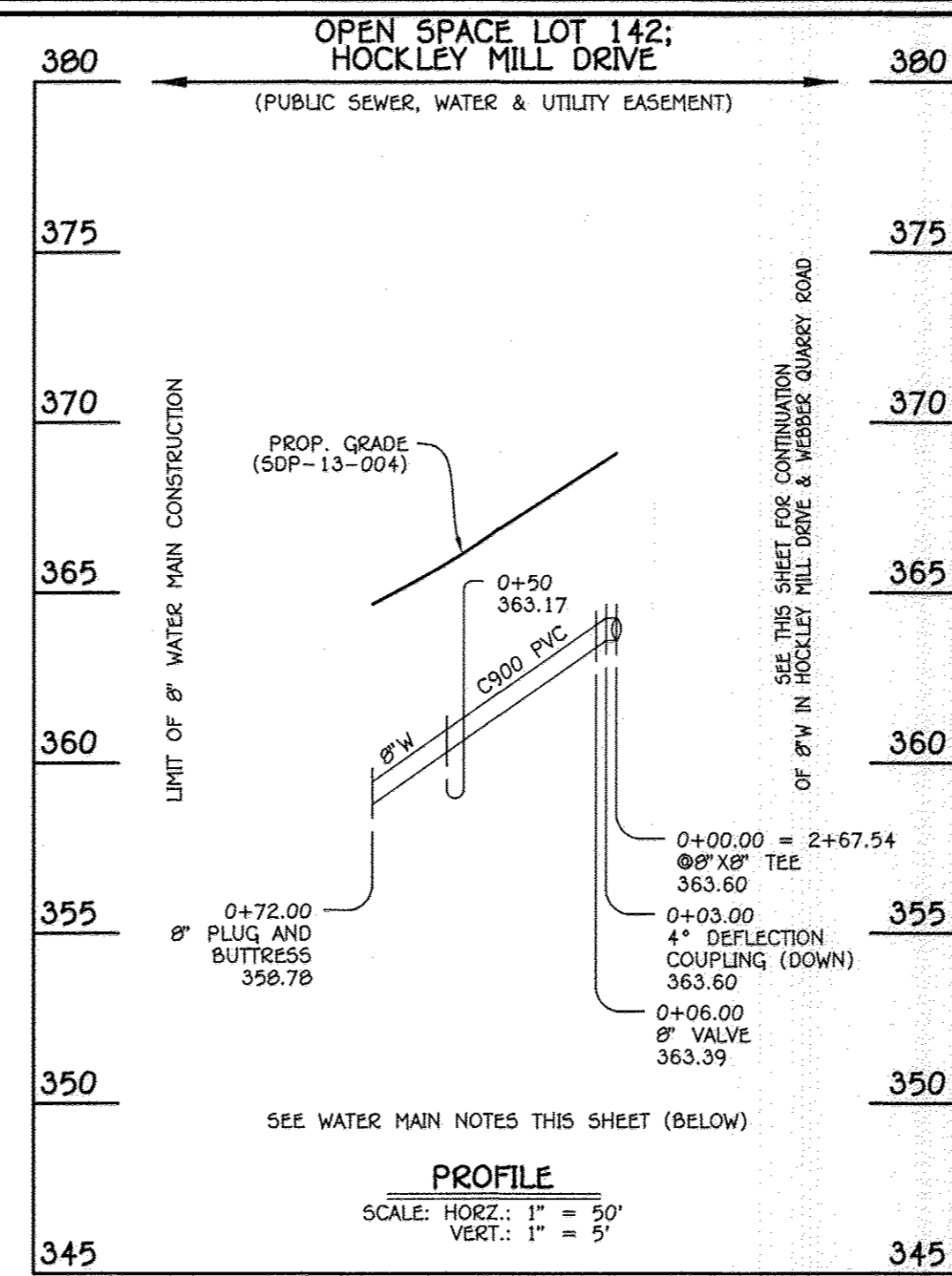
ELLICOTT CROSSING
PART TWO: PHASE 1
LOTS 42 THRU 55, OPEN SPACE LOTS 141 THRU 144 & PARCEL 'K'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4755-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4



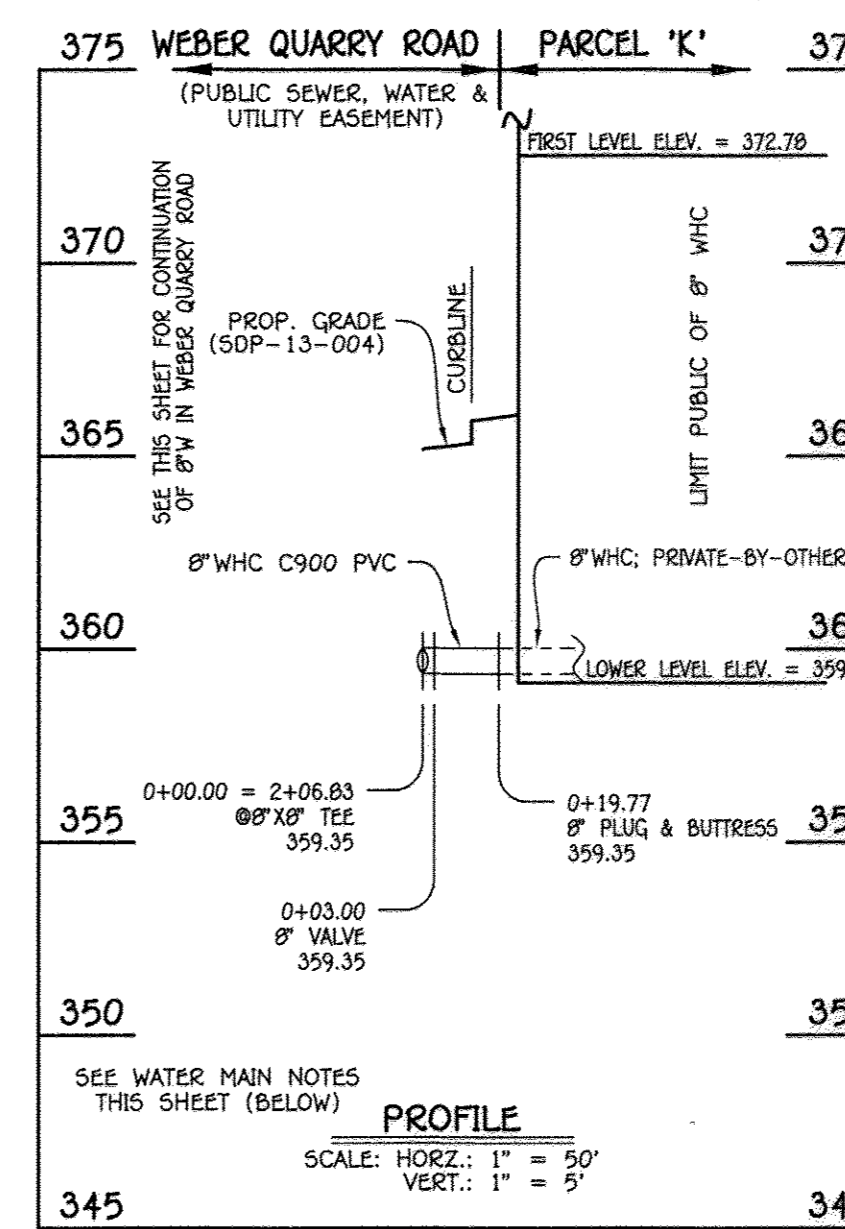
8" WATER MAIN: WEBER QUARRY ROAD & HOCKLEY MILL DRIVE

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: WEBER QUARRY ROAD & HOCKLEY MILL DRIVE			
0+00.00	EX. 8" PLUG & BUTTRESS	587738.60	1366144.02
0+16.60	1/16 H.B.	587727.05	1366132.09
0+48.21	1/32 H.B.	587697.80	1366120.12
0+96.21	1/32 H.B.	587650.68	1366110.98
1+62.40	8" x 6" F.H. TEE	587584.88	1366103.86
1+68.40	8" VALVE	587578.92	1366103.17
2+06.83	8" x 8" TEE	587540.69	1366099.08
2+47.49	2" DEFLECTION COUPLING	587500.28	1366094.72
2+67.54	8" x 8" TEE	587480.31	1366092.92
2+73.54	8" VALVE	587479.77	1366098.90
3+83.89	8" x 6" F.H. TEE	587469.91	1366208.81
4+92.00	8" PLUG & BUTTRESS	587460.24	1366316.49



8" WATER MAIN: HOCKLEY MILL DRIVE

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: HOCKLEY MILL DRIVE			
0+00.00	8" x 8" TEE	587480.31	1366092.92
0+06.00	8" VALVE	587480.84	1366086.95
0+72.00	8" PLUG & BUTTRESS	587489.75	1366021.21



8" WHC: COMMERCIAL / RETAIL BUILDING - PARCEL 'K'

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" W: COMMERCIAL / RETAIL BUILDING - PARCEL 'K'			
0+00.00	8" x 8" TEE	587540.69	1366099.08
0+03.00	8" VALVE	587540.37	1366102.07
0+19.77	8" PLUG & BUTTRESS	587539.59	1366118.74

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
42	HOCKLEY MILL DRIVE	SMH 715	27' SHC LOT 42 8'
43	HOCKLEY MILL DRIVE	SMH 715	31' SHC LOT 43 9'
44	HOCKLEY MILL DRIVE	SMH 715	46' SHC LOT 44 8'
45	HOCKLEY MILL DRIVE	SMH 635	28' 8" VALVE 16'
46	HOCKLEY MILL DRIVE	SMH 635	27' 8" VALVE 18'
47	HOCKLEY MILL DRIVE	SMH 635	48' SHC LOT 47 10'
48	HOCKLEY MILL DRIVE	SMH 635	71' SHC LOT 48 8'
49	HOCKLEY MILL DRIVE	F.H.	46' SHC LOT 49 9'
50	HOCKLEY MILL DRIVE	F.H.	36' SHC LOT 50 10'
51	HOCKLEY MILL DRIVE	F.H.	30' SHC LOT 51 12'
52	HOCKLEY MILL DRIVE	F.H.	53' SHC LOT 52 9'
53	HOCKLEY MILL DRIVE	SMH 640	66' SHC LOT 53 11'
54	HOCKLEY MILL DRIVE	SMH 640	42' SHC LOT 54 16'
55	HOCKLEY MILL DRIVE	SMH 640	34' SHC LOT 55 10'

- WATER MAIN NOTES:
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE.
 2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME II - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING & ZONING ON MAY 24, 2013.

CONTRACT NO. 14-4755-D
 ELLICOTT CROSSING
 PART TWO: PHASE I
 LOTS 42 THRU 55, OPEN SPACE
 LOTS 141 THRU 144 & PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] 8/4/14
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 8.12.14
 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 7/16/14.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2899

#12043
 [Seal of State of Maryland]
 PAUL W. KRIEBEL

DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: JULY, 2014
 AS-BUILTS
 AS-BUILTS
 REVISION CONTRACT LIMITS: W&S SERVICE TO LOTS 42-55 & PARCEL 'K'
 DATE: 1/20/17
 4/11/15

WATER MAIN EXTENSIONS
 PROFILES, CHARTS & TABLES
 600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
 F.C.C. WORK ORDER NO. 10040
 FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

ELLICOTT CROSSING
 PART TWO: PHASE I
 LOTS 42 THRU 55, OPEN SPACE LOTS 141 THRU 144 & PARCEL 'K'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4755-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 4