

QUANTITIES					
ITEM	ESTIMATED	AS-BUILT		TYPE	SUPPLIER
		QUANTITIES	TYPE		
8" S. PVC	762 L.F.	757	SDR-35	NATIONAL PIPE AND PLASTICS	
8" S. CL. 52 D.I.P.	96 L.F.	96	CL-52	AMERICAN CAST IRON PIPE CO.	
4" S. PVC	189 L.F.	215	SDR-35	NATIONAL PIPE AND PLASTICS	
MANHOLE	2 EACH	4		CONTRACTORS PLASTICS	
8" W. C900 PVC	505 L.F.	504	C900	NATIONAL PIPE AND PLASTICS	
6" W. C900 PVC	189 L.F.	184	C900	NATIONAL PIPE AND PLASTICS	
1-1/2" W.H.C.	197 L.F.	150	TYPE-K	MUELLER COMPANY	
1/16 H.B.	2 EACH	2	C-153	TYLER/UNION	
1/32 H.B.	2 EACH	2	C-153	TYLER/UNION	
8" X6" TAPPING SLEEVE	1 EACH	1	TYPE G65	TYLER/UNION	
8" X6" F.H. TEE	1 EACH	1	C-153	TYLER/UNION	
8" X6" REDUCER	1 EACH	1	C-153	TYLER/UNION	
8" TAPPING VALVE	1 EACH	1		MUELLER COMPANY	
6" VALVE	1 EACH	1	MJ GATE	MUELLER COMPANY	
6" PLUG & BUTTRESS	1 EACH	1	C-153	TYLER/UNION	
OUTSIDE METER SETTING	7 EACH	7	DR 25	AY McDONALD	
FIRE HYDRANT	1 EACH	1	A-423	MUELLER COMPANY	
CONTINUITY TEST STATION	1 EACH	1			
3" REPRESENTATION CUMULUM	1 EACH	1			
3" REPRESENTATION CUMULUM	2 EACH	2			
1 1/2" URANIUM	1 EACH	1			

NAME OF UTILITY CONTRACTOR:
SURVEY & DRAFTING DIVISION AS-BUILT DATE:

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #BASE B (LOCATED IN THE PARKING LOT OF THE HOWARD COUNTY DORSEY BUILDING, IN A GRASS STRIP APPROX. 30' SOUTH OF LIGHT POLE) N 571,690.1119 (NAD '83) E 1,361,151.4766 (NAD '83) ELEVATION = 411.850 (NGVD '80)

B.M.#2 - HOWARD COUNTY CONTROL STATION #30EB (LOCATED ALONG THE SOUTH SIDE OF DIAMONDBACK DRIVE, APPROX. 2' OFF EDGE OF PAVING BETWEEN HOUSE NOS. 9401 & 9405) N 555,997.3242 (NAD '83) E 1,390,132.1176 (NAD '83) ELEVATION = 380.853 (NGVD '83)

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
909	4709 CANVASBACK DRIVE	RAYMOND & SHERY JORDAN	YES	NA

NOTE: WATER METERS WILL NOT BE RELEASED BY HOWARD COUNTY TO ANY NEW BUILDING UNTIL THE EXISTING WELL HAS BEEN ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS AND THE EXISTING WELLING IS CONNECTED TO THE PUBLIC WATER MAIN.

DEVELOPER'S CERTIFICATION

I 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: RAYMOND JORDAN 11/15/13 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. Koebel; FOR: RAYMOND JORDAN 11/15/13 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 THESE PLANS, CONTRACT NO. 24-4804-D

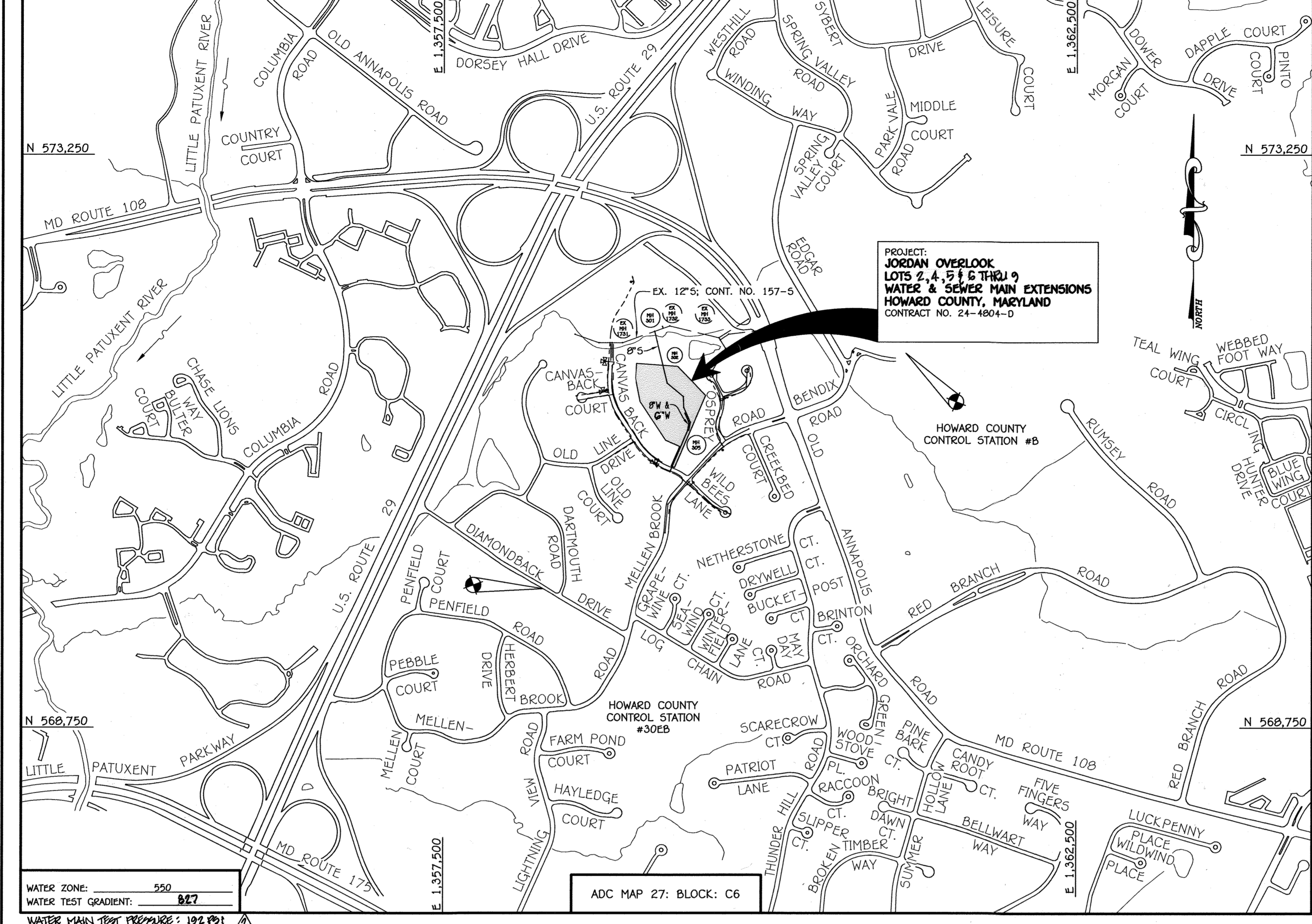
Paul W. Koebel; FOR: RAYMOND JORDAN 11/15/13 DATE

GP-14-012

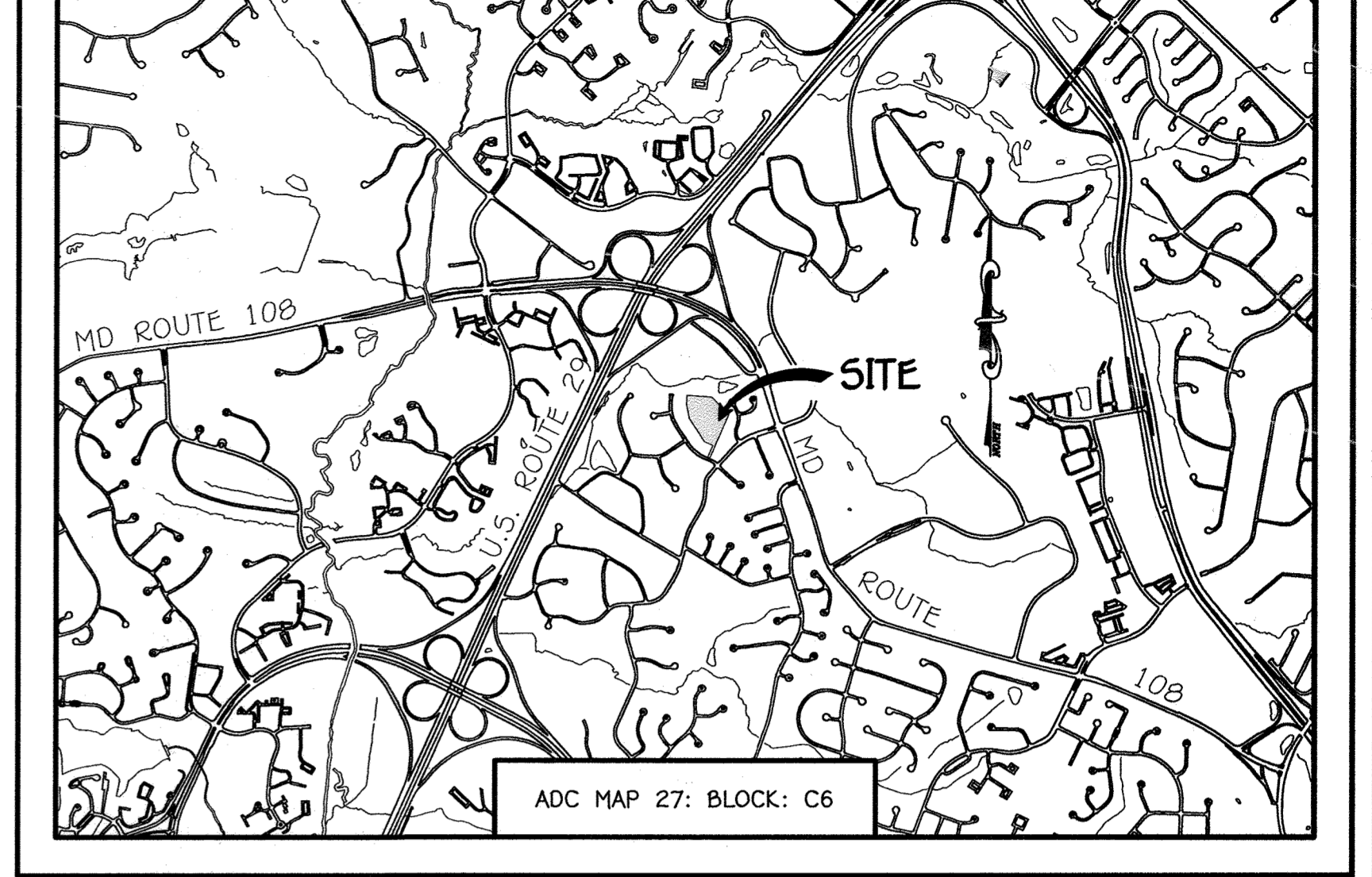
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

John L. Roberts; FOR: HOWARD SOIL CONSERVATION DISTRICT 12/15/13 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. W.H.C.
---	PROP. S.H.C.
○	PROP. FIRE HYDRANT
○	PROP. VALVE



LOCATION MAP	
TYPE OF BUILDING:	RESIDENTIAL - SINGLE FAMILY DETACHED
NUMBER OF LOTS:	7
NO. OF WATER HOUSE CONNECTIONS:	7
NO. OF SEWER HOUSE CONNECTIONS:	7
SEWER SHED:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION CENTER, SAVAGE, MARYLAND

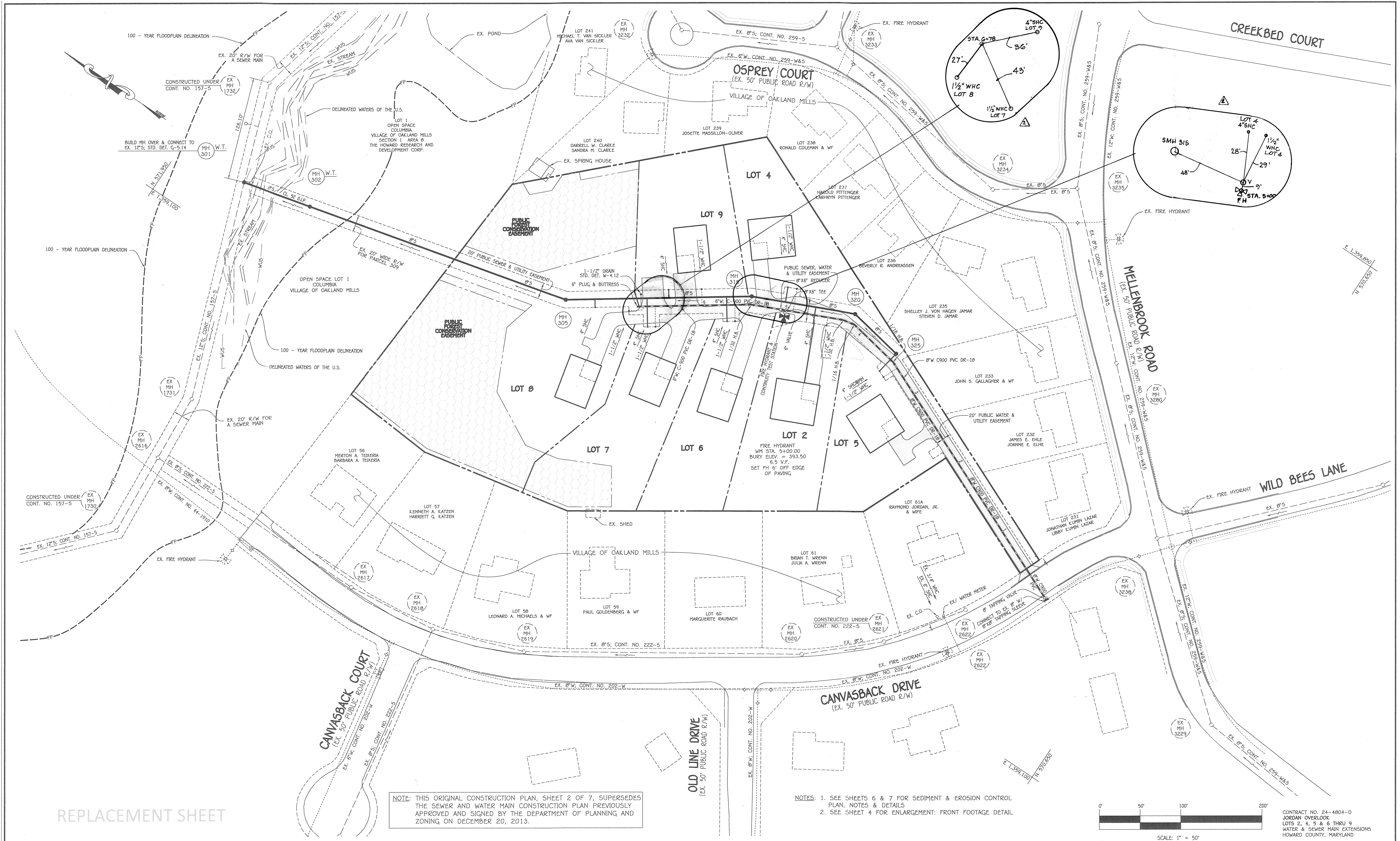


GENERAL NOTES SCALE: 1" = 2000'

- PART A**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND HAZARD 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 DECEMBER, 2006 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS ARE SHOWN ON THE DRAWINGS. THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROVIDED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. B & NO. 30EB.
 - ALL VERTICAL CONTROLS ARE BASED ON VERTICAL CONTROL 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 9'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF EXISTING 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 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	1-800-282-1133
BGE (CONTRACTOR SERVICES)	410-537-8713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-514-4900
COLUMBIAN PIPELINE CO.	410-795-1390
MESS 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 LINE ITEM 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 DFW REQUIREMENTS PER SECTION 10.11.1(4) OF THE HOWARD COUNTY CODE.
- PART B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE AMCA 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 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 ACCORD TO 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 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 6.1 OF THE AMCA 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.
 - 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 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 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-DEGREE ON EITHER END OF THE COUPLING, SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AMCA 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 AMCA C900 AND SHALL BE MULTI FITTINGS (PEX) 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 AMCA 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 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 STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBA IRON, INC. OR APPROVED EQUAL TO ACCOMMODATE A SPRING SYSTEM. ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.28.
 - TO ACCOMMODATE A SPRING SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.28.
- 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.

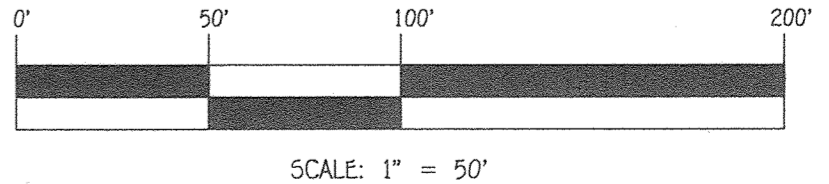
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND [Signature] 12/20/13 DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND [Signature] 12/20/13 DATE	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE 5/16/14. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK ELIOTT CITY, MARYLAND 21042 (410) 461-2895	DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: WRA DATE: 11/13/13 NOVEMBER, 2013	WATER & SEWER MAIN EXTENSIONS TITLE SHEET 600' SCALE MAP NO. 30 BLOCK NO. 10 F.C.C. WORK ORDER NO. 06043 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	JORDAN OVERLOOK LOTS 2, 4, 5 & 6 THRU 9 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 24-4804-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 1 OF 7
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REPLACEMENT SHEET

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 7, SUPERSEDES THE SEWER AND WATER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON DECEMBER 20, 2013.

NOTES: 1. SEE SHEETS 6 & 7 FOR SEDIMENT & EROSION CONTROL PLAN, NOTES & DETAILS
2. SEE SHEET 4 FOR ENLARGEMENT: FRONT FOOTAGE DETAIL

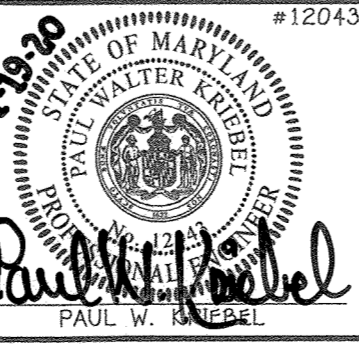


CONTRACT NO. 24-4804-D
JORDAN OVERLOOK
LOTS 2, 4, 5 & 6 THRU 9
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES
DATE: 12/18/2020

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 12/23/20

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 7/16/22.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 12272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2895

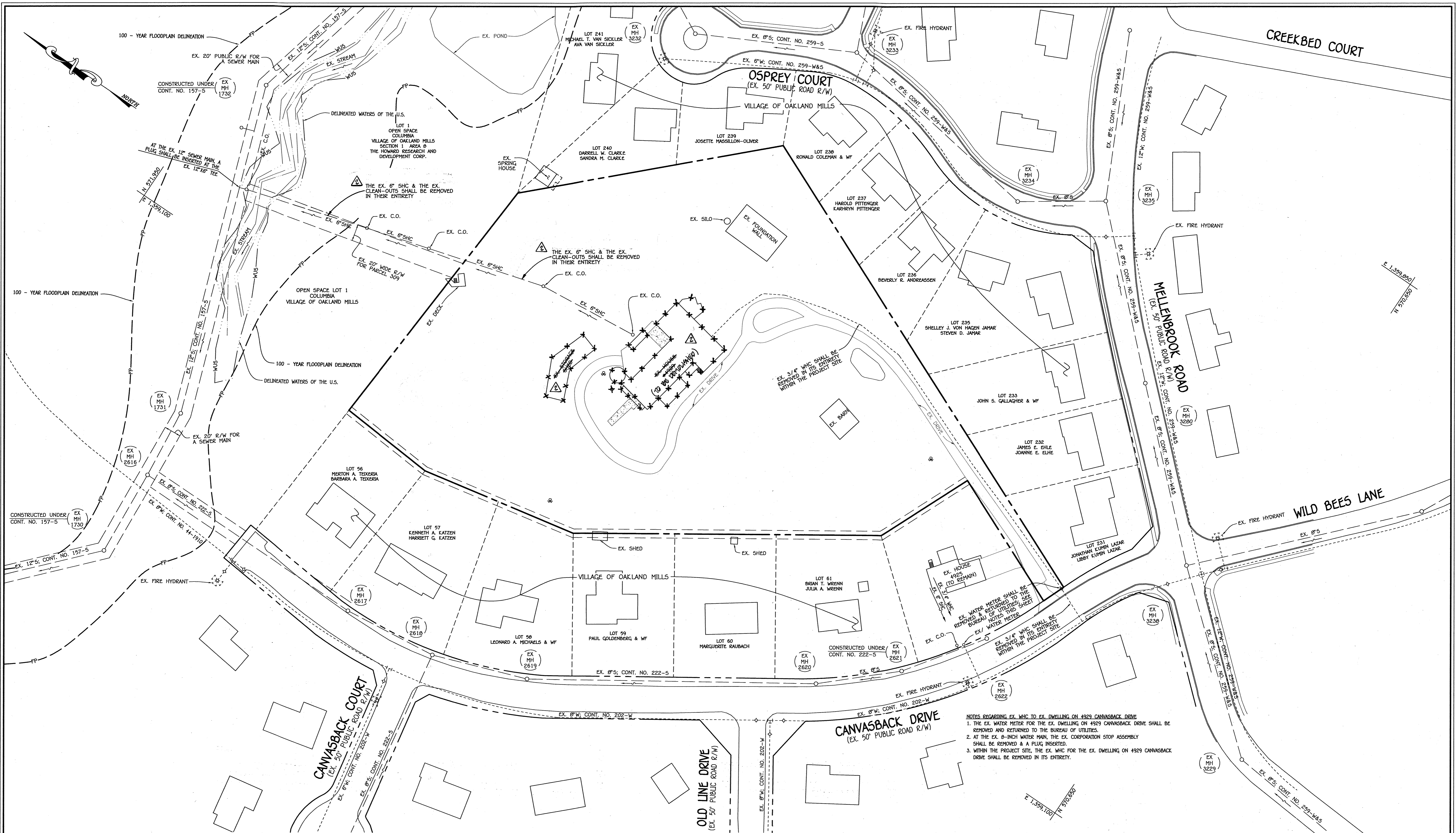


DESIGNED BY:	D.T.A.	
DRAWN BY:	D.T.A.	
CHECKED BY:	P.W.K.	
DATE:	NOVEMBER, 2020	
BY:	NO.	
REVISION:	DATE:	
WRA	AS BUILT	11/29/20
REVISE WATER & SEWER MAIN ALIGNMENTS; NEW LOTS ADDED		
ADD PRIVATE WELL & SEPTIC SYSTEM CHART ON SHEET 1		

WATER & SEWER MAIN EXTENSIONS PLAN	
600' SCALE MAP NO. 30	BLOCK NO. 10
F.C.C. WORK ORDER NO. 06043	
FILE NAME:	WATER & SEWER MAIN EXTENSION PLAN

JORDAN OVERLOOK
LOTS 2, 4, 5 & 6 THRU 9
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 24-4804-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

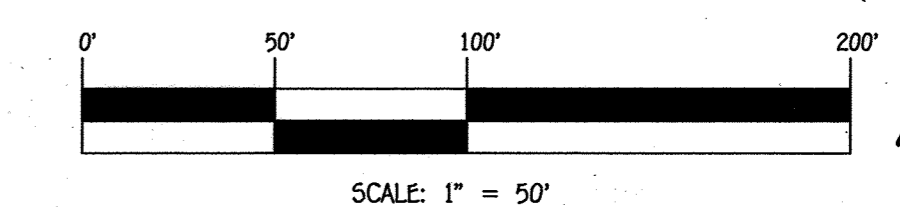
SCALE AS SHOWN
SHEET 2 OF 7



PLAN

SCALE: 1" = 50'

NOTES REGARDING EX. WHC TO EX DWELLING ON 4929 CANVASBACK DRIVE
 1. THE EX. WATER METER FOR THE EX. DWELLING ON 4929 CANVASBACK DRIVE SHALL BE REMOVED AND RETURNED TO THE BUREAU OF UTILITIES.
 2. AT THE EX. 8-INCH WATER MAIN, THE EX. CORPORATION STOP ASSEMBLY SHALL BE REMOVED & A PLUG INSERTED.
 3. WITHIN THE PROJECT SITE, THE EX. WHC FOR THE EX. DWELLING ON 4929 CANVASBACK DRIVE SHALL BE REMOVED IN ITS ENTIRETY.

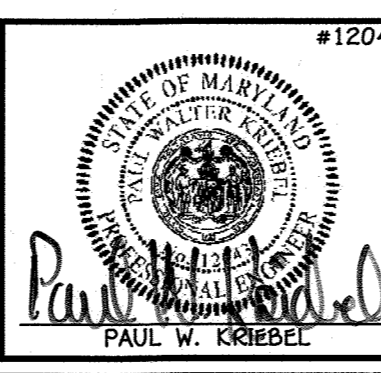


CONTRACT NO. 24-4804-D
 JORDAN OVERLOOK
 LOTS 2, 4, 5 & 6 TRAIL 9
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

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.
 LICENSE NO. 12243 EXPIRATION DATE 6/7/16/14.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLEOTT CITY, MARYLAND 21042
 (410) 461-2895

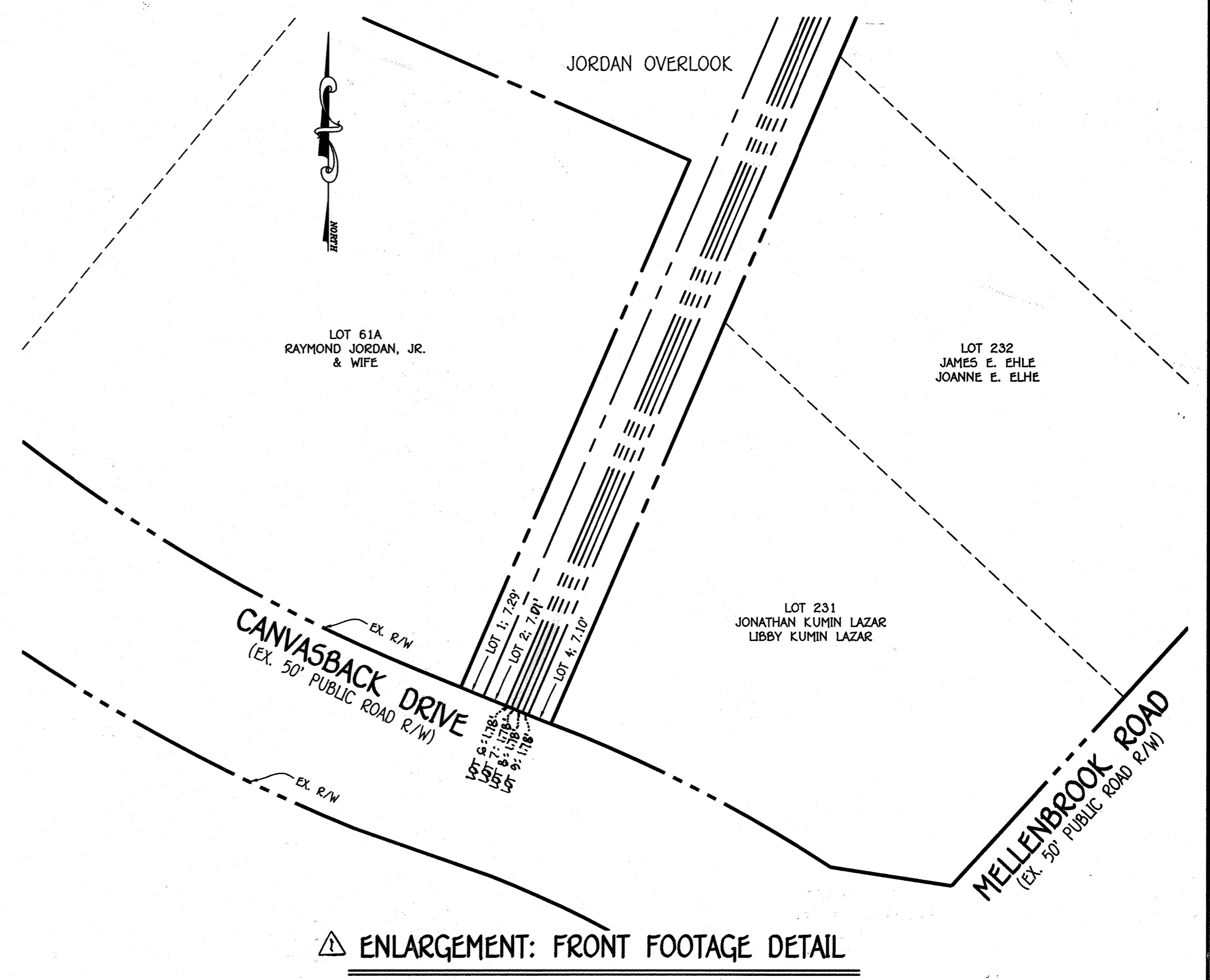
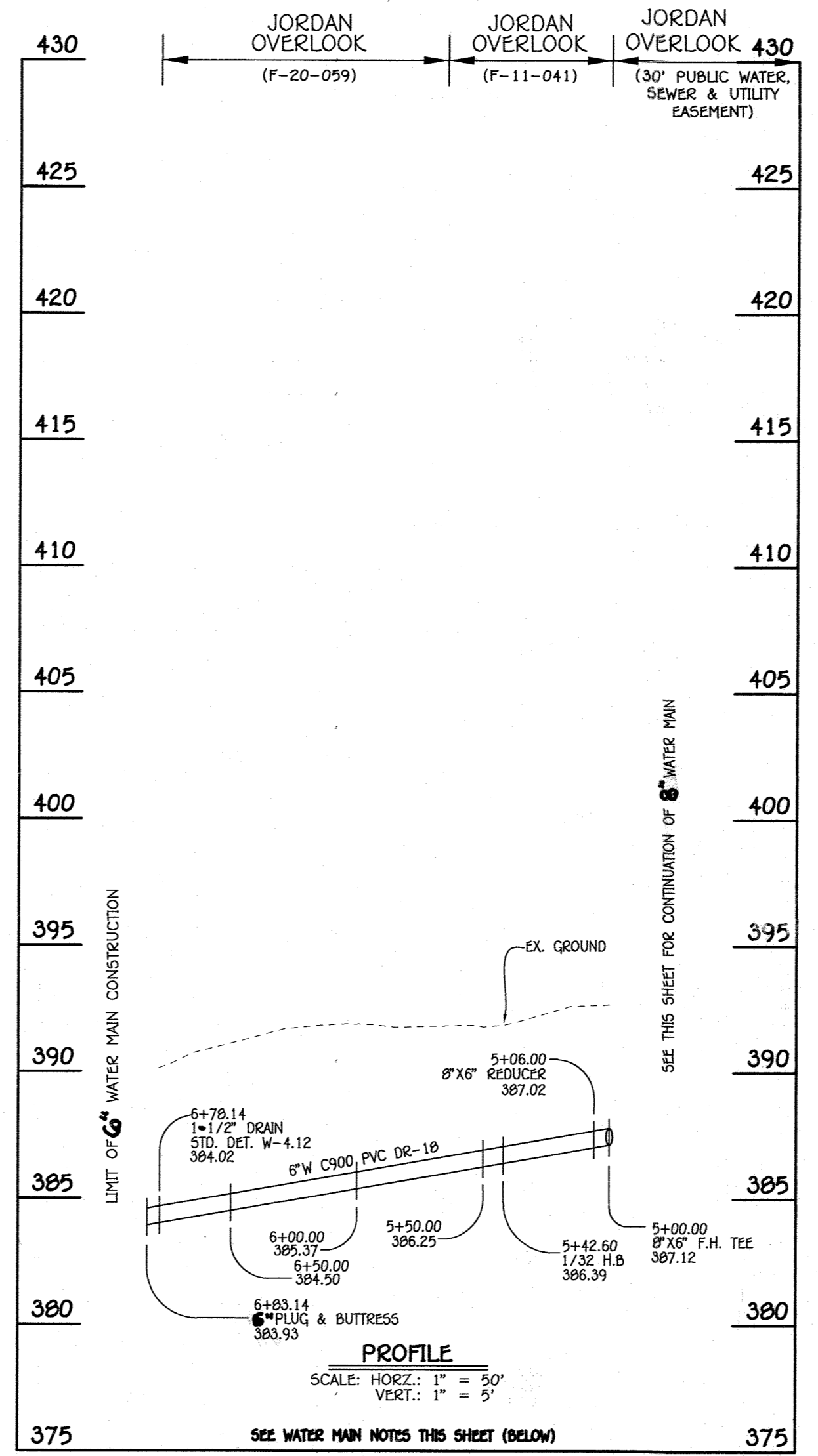
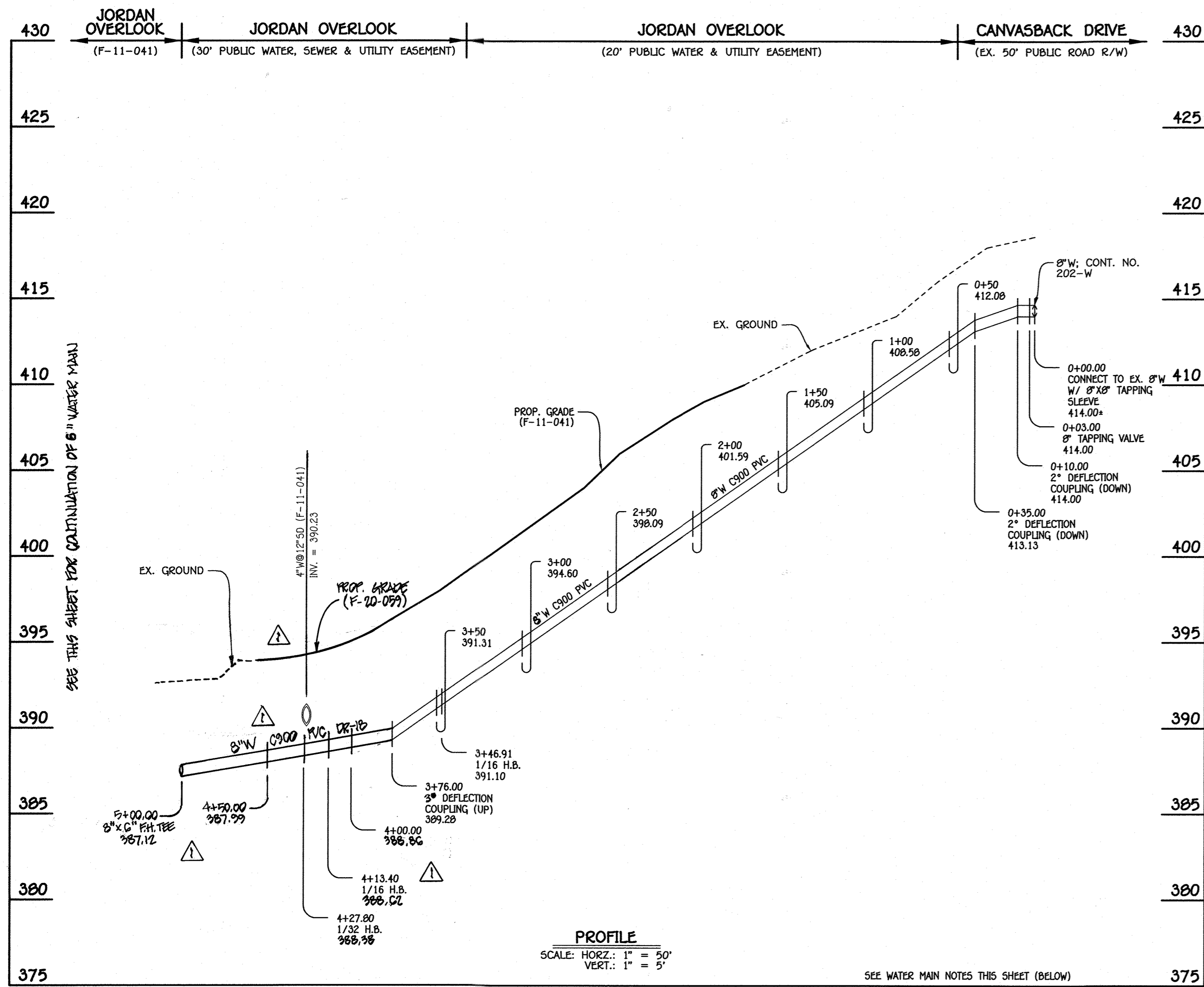


DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	NOVEMBER, 2013
BY:	NO.
REVISION:	

EX. WHC & EX. SHC
 ABANDONMENT PLAN
 600' SCALE MAP NO. 30 BLOCK NO. 10
 F.C.C. WORK ORDER NO. 06043
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

JORDAN OVERLOOK
 LOTS 2, 4, 5 & 6 TRAIL 9
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 24-4804-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 3 OF 7



8" & 4" WATER MAIN: LOTS 2, 4, 5 & 6 THRU 9

8" & 4" WATER MAIN: LOTS 2, 4, 5 & 6 THRU 9

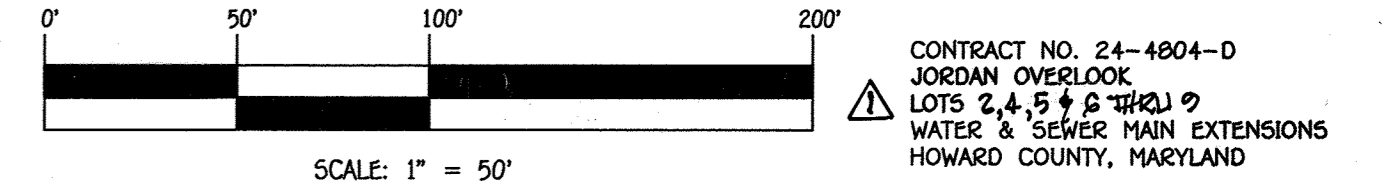
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" & 4" WATER MAIN: LOTS 2, 4, 5 & 6 THRU 9			
0+00.00	8" X 8" TAPPING SLEEVE	570755.93	1359290.23
0+03.00	8" TAPPING VALVE	570758.68	1359291.42
3+46.91	1/16 H.B.	571074.25	1359428.14
4+13.40	1/16 H.B.	571139.66	1359440.05
4+27.80	1/32 H.B.	571153.70	1359436.85
5+00.00	8" X 6" E.H. TEE	571219.57	1359407.28

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" & 4" WATER MAIN: LOTS 2, 4, 5 & 6 THRU 9			
5+06.00	8" X 6" REDUCER	571225.03	1359404.83
5+42.60	1/2 H.B.	570958.86	1359291.42
6+03.14	6" PLUG & BUTTRESS	570963.32	1359380.04

LOT NUMBER	1/2"	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
2	12'	9215 JORDAN RIVER RD.	WHC TO SHC-2 16'	WHC TO SMH-320 39'
4	24'	9214 JORDAN RIVER RD.	WHC TO SHC-4 11'	WHC TO FHT 38'
5	19'	9211 JORDAN RIVER RD.	WHC TO SHC-5 10'	WHC TO SMH-325 35'
6	19'		WHC TO SHC-6 8'	WHC TO SMH-315 37'

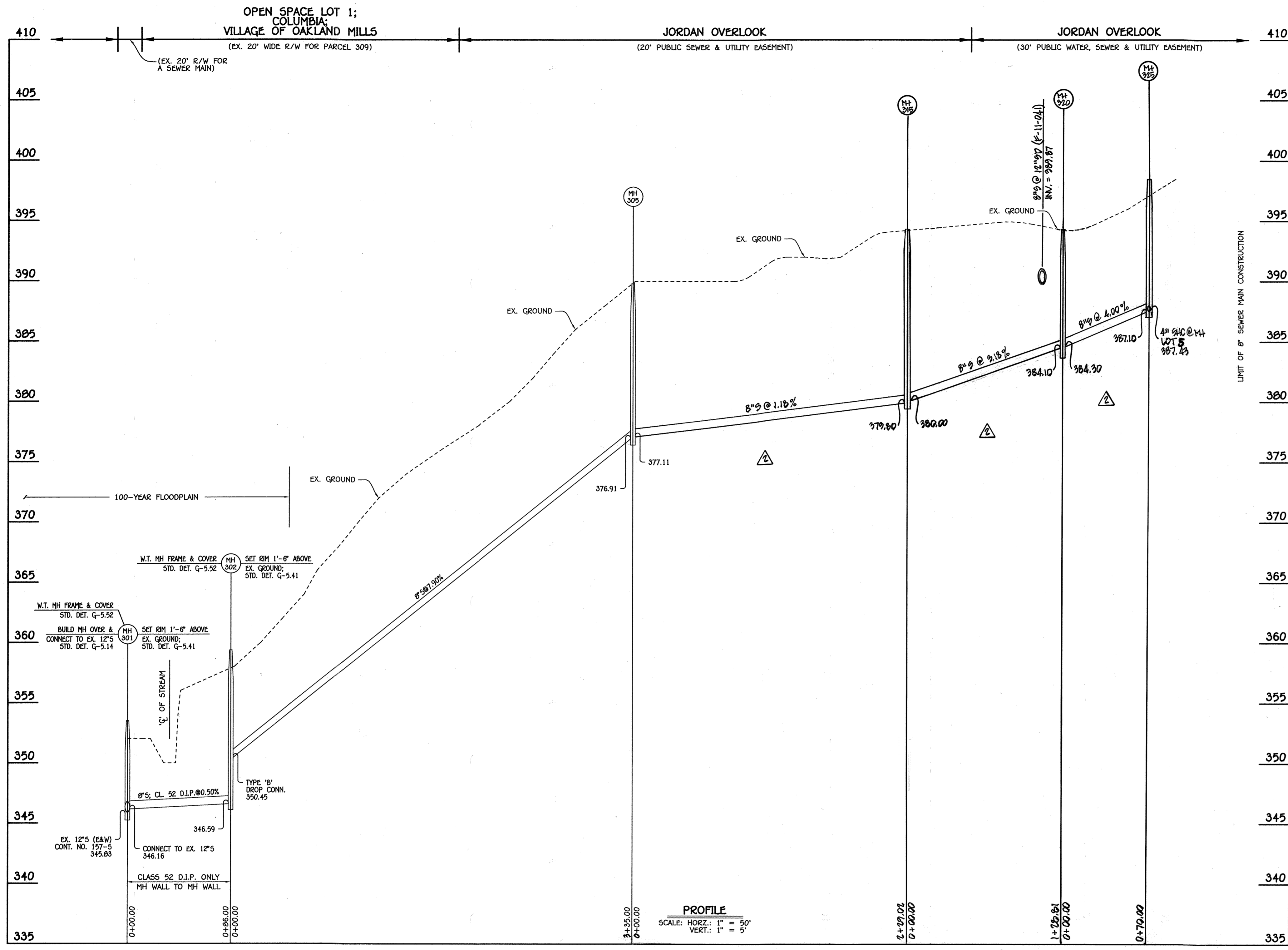
LOT NUMBER	1/2"	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
7	17'		WHC TO SHC-7 8'	WHC TO SHC-9 51'
8	22'		WHC TO SHC-8 40'	WHC TO SHC-7 31'
9	20'		WHC TO SHC-9 40'	WHC TO SHC-6 53'
DRAIN	18'		DRAIN TO WHC-8 27'	DRAIN TO SHC-8 57'

WATER MAIN NOTES:
 1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, DE-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 AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TIED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



CONTRACT NO. 24-4804-D
 JORDAN OVERLOOK
 LOTS 2, 4, 5 & 6 (W&S)
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND [Signature] 11/21/15 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND [Signature] 12.20.13 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. 12243 EXPIRATION DATE 5/7/16/14. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10272 BALDORNE NATIONAL FREE BLVD ELIOTT CITY, MARYLAND 21046 (410) 461-2895	#12043 DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: WRA DATE: NOVEMBER, 2013 BY NO.	AS BUILT WHC LOCATION TABLES 11/19/13 REVISION DATE	WATER MAIN PROFILE, CHART & TABLE ENLARGEMENT: FRONT FOOTAGE DETAIL 600' SCALE MAP NO. 30 BLOCK NO. 10 F.C.C. WORK ORDER NO. 06043 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	JORDAN OVERLOOK LOTS 2, 4, 5 & 6 THRU 9 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 24-4804-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN
							SHEET 4 OF 7



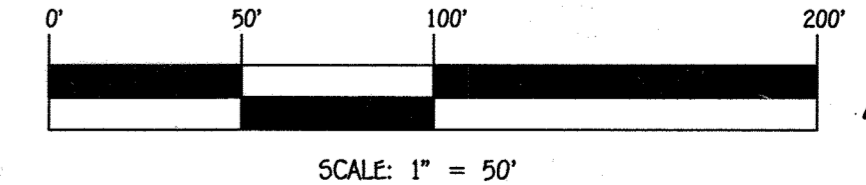
NO.	NORTHING	EASTING	RIM ELEVATION
301	571860.92	1359168.93	353.50 **
302	571777.36	1359189.28	359.37 **
305	571451.87	1359268.53	389.84 *
315	571263.36	1359398.58	394.39 *
320	571145.84	1359451.34	394.42 *
325	571076.98	1359438.80	398.17 *

NOTE: * 1. SET MH RIMS FLUSH W/EXISTING GROUND OR PROPOSED GRADE AS APPLICABLE.
 ** 2. SET MH RIMS 1'-6" ABOVE EXISTING GROUND; G-5.41.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	FF ELEV.	BASE ELEV.
MH 305 TO MH 315						
0+36	6	377.71	377.91	383.61	398.49	388.30
1+00	7	378.46	378.86	384.26	399.34	388.79
1+17	9	378.78	378.98	383.88	398.42	388.27
1+98	6	379.02	380.02	385.82	401.54	391.39
MH 315 TO MH 310						
0+40	4	381.51	381.87	385.97	396.00	386.00
0+80	2	382.71	383.11	386.61	404.50	394.50
MH 310 TO MH 315						
@ MH 315	5	387.83	388.03	397.93	407.50	397.50

LOT NUMBER	C/O SHC	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
2	7 31		SHC TO WHC-2 16'	SHC TO SMH-320 53'
4	9 18		SHC TO WHC-4 11'	SHC TO FHT 37'
5	6 28		SHC TO WHC-5 10'	SHC TO SMH-32B 30'
6	11 30		SHC TO WHC-6 8'	SHC TO SMH-315 41'
7	11 34		SHC TO WHC-7 8'	SHC TO SMH-305 39'
8	7 8		SHC TO WHC-8 31'	SHC TO SMH-305 39'
9	11 10		SHC TO WHC-9 40'	SHC TO SHC-7 54'

8" SEWER MAIN: LOTS 2, 4, 5, & 6 THRU 9 & OUTFALL

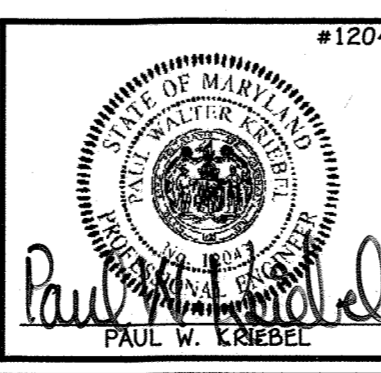


CONTRACT NO. 24-4804-D
 JORDAN OVERLOOK
 LOTS 2, 4, 5 & 6 THRU 9
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 11/21/13

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 12.20.13

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 12243 EXPIRATION DATE 6/7/16/14
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895

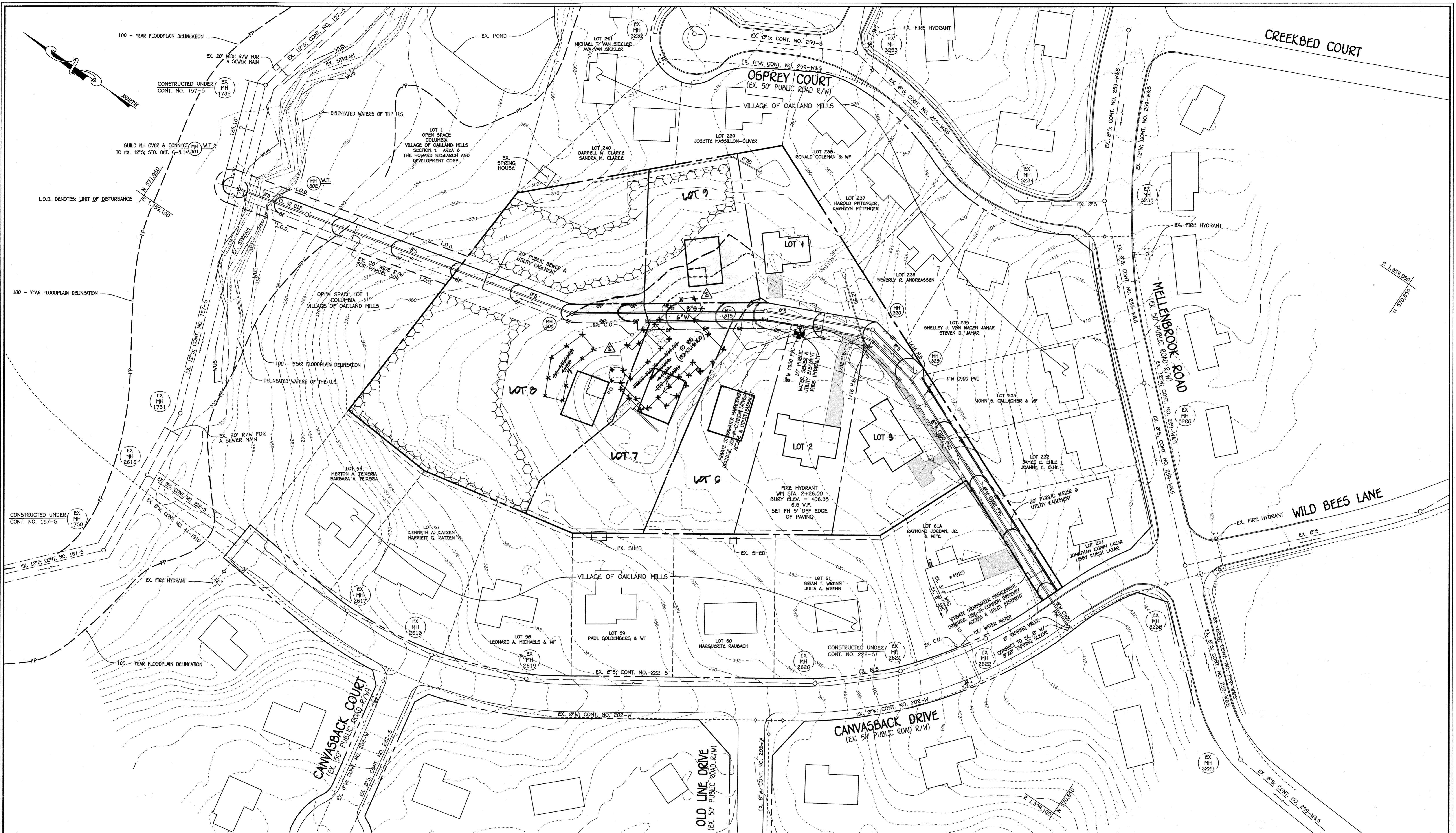


DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: WRA
 P.W.K.
 DATE: NOVEMBER, 2013
 BY NO. REVISION
 AS BUILT SHC TABLE
 REVISED TITLE BLOCK, PROFILE, SHC CHART & SHC TABLE
 11/29/13
 12/17/13

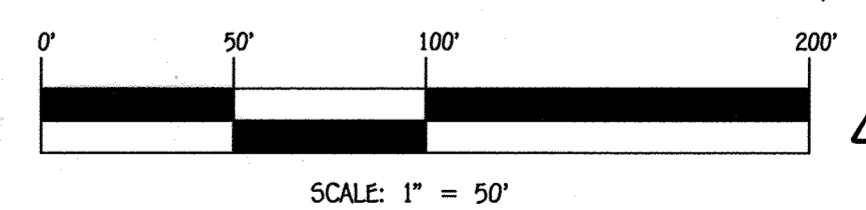
SEWER MAIN
 PROFILE, CHARTS & TABLE
 600' SCALE MAP NO. 30 BLOCK NO. 10
 F.C.C. WORK ORDER NO. 06043
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

JORDAN OVERLOOK
 LOTS 2, 4, 5 & 6 THRU 9
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 24-4804-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 7



NOTES: 1. SEE SHEET 7 FOR SEDIMENT EROSION CONTROL NOTES & DETAILS

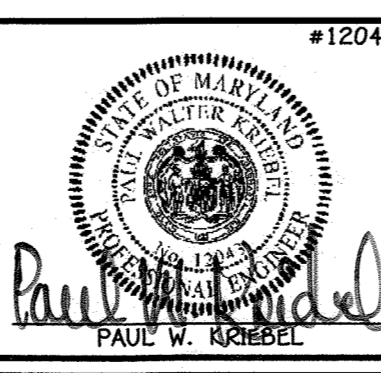


CONTRACT NO. 24-4804-D
 JORDAN OVERLOOK
 LOTS 2, 4, 5 & 6 THROUGH
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 M.G.
 DATE: 12-20-13

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 IS 7/16/14.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN INDUSTRIAL PARK
 ELLETTT CITY, MARYLAND 21042
 (410) 461-2895



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

SEDIMENT & EROSION CONTROL PLAN
 60' SCALE MAP NO. 30 BLOCK NO. 10
 F.C.C. WORK ORDER NO. 06043
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

JORDAN OVERLOOK
LOTS 2, 4, 5 & 6 THROUGH
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 24-4804-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 6 OF 7

I:\2009\06043.dwg\Water & Sewer Contract\Plan\dwg. scd Sheet 6, 11/19/2013 11:47:21 AM

