

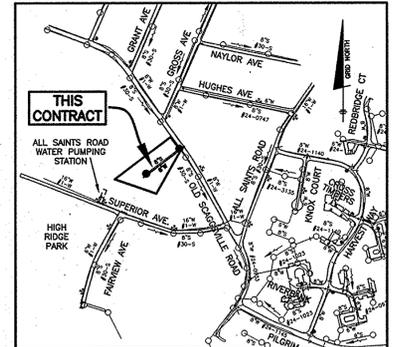
HIGH RIDGE ESTATES LOTS 1-7 AND OPEN SPACE LOT 8 CONTRACT NO. 24-4952-D

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
6" PVC C900 DR-18 WATER	370 LF			
6" x 8" TS&V	1 EA			
1.5" WHC	140 LF			
1" METER VAULT	7 EA			
8" PVC SDR-35 SEWER	294 LF			
MANHOLES	2 EA			
4" SHC	80 LF			

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

BENCH MARKS (NAD83)
 HO. CO. No. 476D ELEV. 312.32'
 NEAR 9028 OLD SCAGGSVILLE ROAD
 6 FEET FROM FIRE HYDRANT
 33.9 FEET FROM BGE 315258
 N 530494.447 E 1350872.301

HO. CO. No. 476E ELEV. 335.756'
 BY 9160 OLD SCAGGSVILLE ROAD
 19.8 FEET FROM WATER METER
 76.5 FEET FROM BGE 31000
 N 529044.964 E 1350854.953



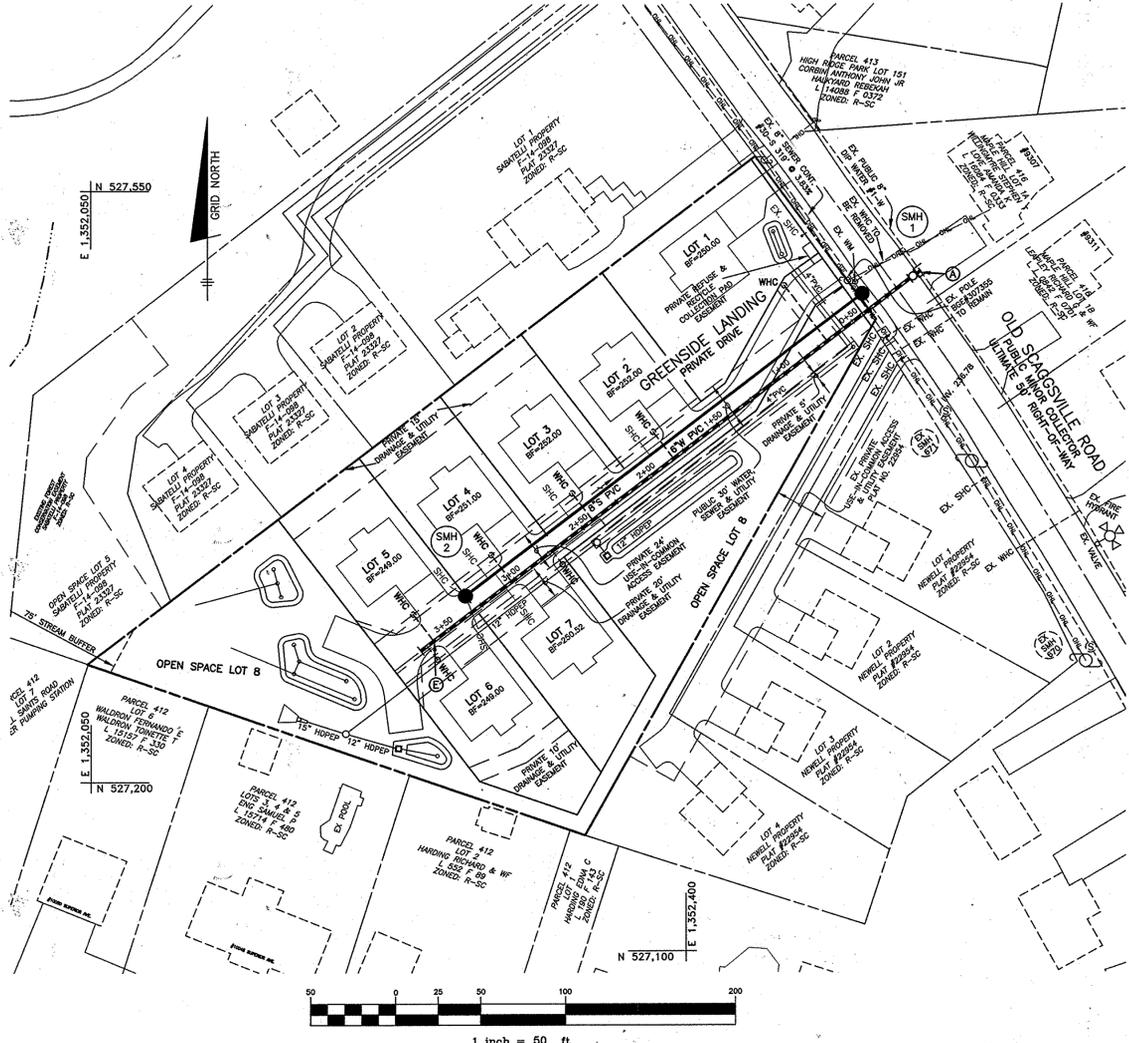
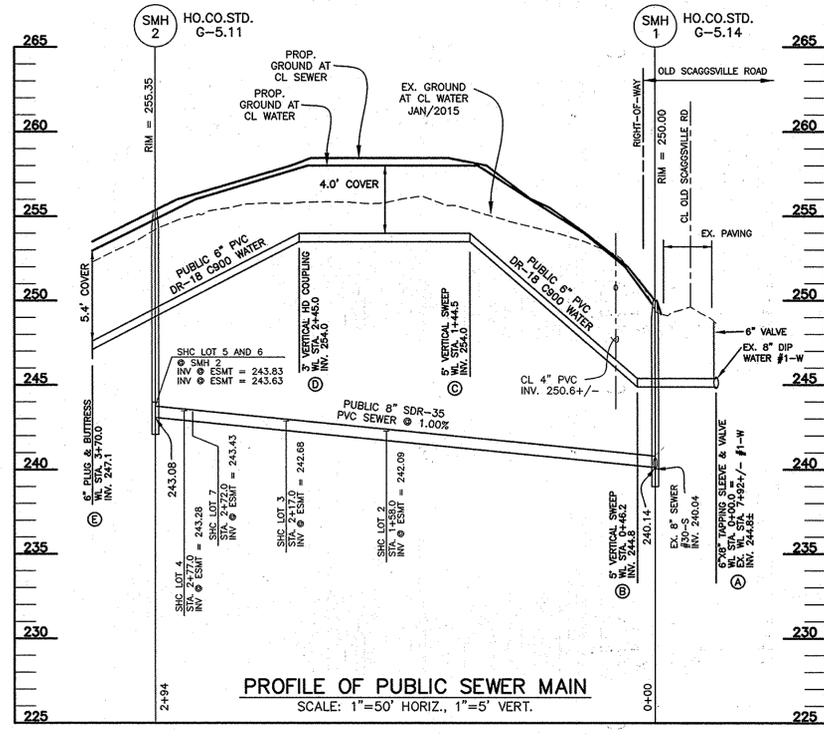
- ### PART I GENERAL NOTES
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN JANUARY, 2015 BY BENCHMARK ENGINEERING, 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. 476D AND NO. 476E.
ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 0012 AND 16E1.
 - 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWING THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWING, 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.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PITS 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 ON THESE PLANS:
 AT&T.....1-800-252-1133
 BGE (CONTRACTOR SERVICES).....410-637-8713
 BGE (EMERGENCY).....410-685-0123
 BUREAU OF UTILITIES.....410-315-1800
 COLONIAL PIPELINE CO.....410-795-1590
 MISS UTILITY.....1-800-257-7777
 STATE HIGHWAY ADMINISTRATION.....410-531-5533
 VERIZON.....1-800-743-0033
 - 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.
 - THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 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.

Sewer Manhole Schedule

Manhole Number	Location (NAD '83)	Invert In	Invert Out	Rim Elevation	Ho.Co.Std. Detail
1	N 627488.59 E 1352503.89	240.14	240.04	250.00	G-5.14
2	N 627320.14 E 1352270.31	-	243.08	255.35	G-5.11

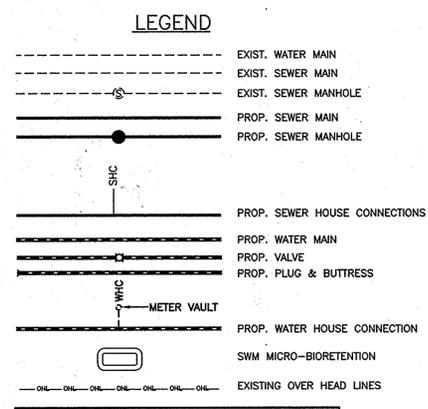
Water Appurtenance Schedule

No.	Appurtenance	WL Station	Location (NAD '83)
A	8" x 8" TAPPING SLEEVE & VALVE	7+92 (EX) = 0+00	N 527502.14 E 1352538.09
B	5 DEGREE VERTICAL SWEEP	0+46.2	N 527474.09 E 1352501.37
C	5 DEGREE VERTICAL SWEEP	1+44.5	N 527414.41 E 1352423.26
D	3 DEGREE VERTICAL HD COUPLING	2+45.0	N 527353.40 E 1352343.40
E	6" PLUG AND BUTTRISS	3+70	N 527277.51 E 1352244.07



TYPE OF BUILDING: SFD
NUMBER OF WHC'S: 7
NUMBER OF SHC'S: 7
DRAINAGE AREA: LITTLE PATUXENT
TREATMENT PLANT: LITTLE PATUXENT WRP
WATER ZONE: 400
TEST GRADIENT: 550

FILE REFERENCES: ECP-15-063, S-15-004, F-16-030



NOTE:
 ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).
 ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC.

SHC CHART

Lot Number	Invert @ main	Invert @ R/W or esmt line	Minimum Cellar Elevation
1*	241.93	242.11	246.29
2	241.89	242.09	245.87
3	242.48	242.68	246.46
4	243.08	243.28	247.06
5	243.41	243.63	247.49
6	243.41	243.83	247.55
7	243.03	243.43	247.05

* Lot 1 shall utilize existing SHC

Lot Frontage Chart

Lot Number	Distance (feet)
1	68.39
2	4.00
3	4.00
4	4.00
5	4.00
6	4.00
7	4.00

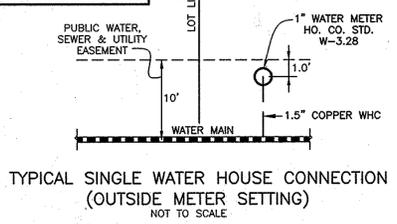
WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	9304 OLD SCAGGSVILLE ROAD		
2	9206 GREENSIDE LANDING		
3	9210 GREENSIDE LANDING		
4	9214 GREENSIDE LANDING		
5	9218 GREENSIDE LANDING		
6	9219 GREENSIDE LANDING		
7	9215 GREENSIDE LANDING		

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	9304 OLD SCAGGSVILLE ROAD		
2	9206 GREENSIDE LANDING		
3	9210 GREENSIDE LANDING		
4	9214 GREENSIDE LANDING		
5	9218 GREENSIDE LANDING		
6	9219 GREENSIDE LANDING		
7	9215 GREENSIDE LANDING		

NOTE:
 SEE HO. CO. STD. DETAIL W-3.28 FOR SINGLE OUTSIDE METER SETTING



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

John K. Blunt
 HOWARD SOIL CONSERVATION DISTRICT
 DATE: 6/9/16

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SDP-16-079

OWNER/DEVELOPER:
 DEVELOPMENT PARTNERS, LLC
 11807 WOLLINGFORD COURT
 CLARKSVILLE, MARYLAND 21029
 301-490-0388

Professional Certification. 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. 22390, Expiration Date: 6/30/2017.

BENCHMARK ENGINEERING, INC.
 ENGINEERS & LAND SURVEYORS & PLANNERS
 8480 BALTIMORE NATIONAL PIKE & SUITE 315 • ELICOTT CITY, MARYLAND 21043
 (P) 410-485-6105 (F) 410-485-8844
 WWW.BED-ENGINEERING.COM



DES:	DBT				
DRAFT:	DBT				
CHK:	CAM				
DATE:	04/2016	BY	NO.	REVISIONS	DATE

PUBLIC WATER AND SEWER PLAN, PROFILES, NOTES AND DETAILS

HIGH RIDGE ESTATES
 LOTS 1-7 AND OPEN SPACE LOT 8
 CONTRACT NO. 24-4952-D

SCALE: AS SHOWN
 SHEET NO. 1 OF 1

TAX MAP: 50 - BLOCK: 2 - PARCEL: 75 AND 258 - ZONED: R-SC - ELECTION DISTRICT: 6