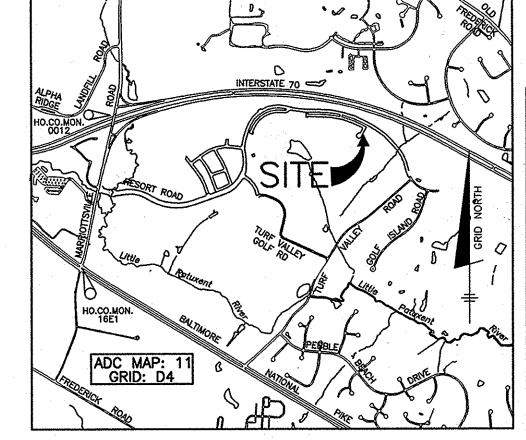
VILLAGES AT TURF VALLEY PHASE 2, SECTION 2 CONTRACT NO. 24-4663-D



BENCH MARKS HORIZONTAL: MARYLAND NAD83 CONCRETE MONUMENT AT NORTHWEST CORNER OF MARRIOTSVILLE ROAD AND 1-70 10.6' FROM X-CUT IN TOP OF GUARDRAIL POST. N 596502.760 E 1340864.370

ELEV. 486.298' ,HO. CO. #16E1 STAMPED DISC SET ON TOP OF 3' DEEP CONCRETE MONUMENT AT MEDIAN OF ROUTE 40 AT INTERSECTION WITH MARRIOTSVILLE ROAD 8.6 FROM E/P OF EAST BOUND LANES. N 593250.960 E 1340192.700 ELEV. 463.981'

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE LOCATION DIMENSION 1 LOCATION DIMENSION 2 WICKWOOD COURT

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE WICKWOOD COURT WICKWOOD COURT WICKWOOD COURT

PARCEL 15 PARCEL 8 PARCEL C **LOCATION MAP** SCALE: 1" = 600'

TYPE OF BUILDING:

NUMBER OF SHC'S:.

NUMBER OF WHC'S:.

PUMPING STATION:

NO. OF LOTS/PARCELS/UNITS:

AREA OF COMMERCIAL LOT/PARCEL:

PROPERTY LINE Carlo Conc. SIDEWALK -1.5" COPPER WHC CURB AND GUTTER-

TYPICAL WATER HOUSE CONNECTION

---- EXIST. SEWER MAIN ---- EXIST, SEWER MANHOLE ----- EXIST. STORM DRAIN O----- PROP. STORM DRAIN PROP. SEWER MANHOLE PROP: TERMINAL MANHOLE PROP. SEWER HOUSE CONNECTIONS PROP. WATER HOUSE CONNECTION

ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).

SHEET INDEX NO. DESCRIPTION TITLE SHEET PLAN & PROFILE VIEW OF PUBLIC WATER & SEWER MAINS

> THIS SHEET REPLACES THE SHEET **ORIGINALLY SIGNED ON 5-20-2010**

△ 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, 2006 BY WINGS AERIAL MAPPING

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. 0012 AND NO.

ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWING

4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS

5. 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 OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE

6. 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 7. 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 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.

8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

&T	1-800-252-1133
E (CONTRACTOR SERVICES)	
E (EMERGENCY)	
reau of utilities	410-313-4900
LONIAL PIPELINE CO	410-795-1390
S UTILITY	1-800-257-7777
ATE HIGHWAY ADMINISTRATION	410-531-5533
DIZON	1

11. 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 II WATER

SECTION 1005 OF THE STANDARD SPECIFICATIONS.

1. ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.

2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM 7. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER. MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.

8. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA 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.

BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC

10. 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 INSERTIONLINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE HE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO

11. ALL CHANGES IN HORIZONTAL AND VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING O 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. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES 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 DEFLECTION OF 3-DEGREES (1 ½ DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTAINTEED PVC HIGH

5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE 12. WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICESFOR 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 FOR PIPE EXPANSION AND CONTRACTON. THE BELL STOPS CHANGED AND AND AND AND OF ADDROVED SOLVED.

SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL. 13. THE MINIMUM WHC FOR FIRE SPRINKLER CODE IS 1.5" WITH A 1" METER WITH OUTSIDE SETTING

PART III SEWER

. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.

2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

3. FORCE MAINS SHALL BE D.I.P. ONLY. . MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

5. 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

6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

SPECIFICATIONS AND AS PER F-10-078.

P:\1915\dwg\Phase 2 Section 2\6009.dwg, 8/20/2014 3:44:39 PM

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT

CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PLANNING AND ZONING

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED

IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD

HOWARD COUNTY, MARYLAND

BENCHMARK

ENGINEERING, INC. (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CMILENGINEERING.COM

OWNER/DEVELOPER: MANGIONE ENTERPRISES OF TURF VALLEY, LP

1205 YORK ROAD, PENTHOUSE

LUTHERVILLE, MARYLAND 21093

410-825-8400



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

Expiration Date: 7-002007. 6-30-2015

	L					
	DATE:	09/2013	BY	NO.	REVISIONS	DATE
٠.						
	CHK:	DAM	BEI	A	UPDATE QUANTITIES CHART, SHEET INDEX & GENERAL NOTES. ADD WHC AND SHC AS-BUILT CHARTS.	8-21-2
	DRAFT	:MCR/DBT				
DES: MCR/DB1	MCR / DRT I		1		.i	

LITTLE PATUXENT WRP

TITLE SHEET

600 SCALE MAP #16 BLOCK:11&17 200 SCALE MAP #146

VILLAGES AT TURF VALLEY PHASE 2, SECTION 2

LOT.210 thru 257; OPEN SPACE LOTS 258 thru 260

TAX MAP: 16 - BLOCK: 17 - PARCEL: 401, P/O 8, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3 CONTRACT NO. 24-4663-D

SHEET NO. 1 OF 2

SCALE:

