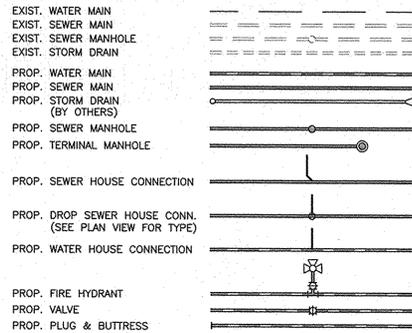


ITEMS	ESTIMATED QUANTITIES	AS-BUILT	
		QUANTITIES	MANUF./SUPPLIER
8" WATER (PVC C900)	1505 L.F.		
6" WATER (FH LEADS-DIP)	47 L.F.		
1.5" WHC	735 L.F.		
1.5" THWC	328 L.F.		
1.5" WHC	43 EACH		
1.5" THWC	18 EACH		
FIRE HYDRANT	2 EACH		
FH TEE & VALVE	2 EACH		
8" x 8" TEE	6 EACH		
8" WATER VALVES	8 EACH		
1" OUTSIDE METER VAULT	79 EACH		
8" CAP & BUTTRESS	4 EACH		
8" SEWER (PVC)	1217 L.F.		
MH (G-5.12)	2 EACH		
MH (S-1.31)	8 EACH		
4" TSHC	174 L.F.		
6" TSHC	852 L.F.		
4" TSHC	11 EACH		
6"x4" TSHC	34 EACH		

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

LEGEND



LOT NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2	LOT NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2
246	7301 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	280	7407 RIGBY PLACE		
247	7303 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	281	7409 RIGBY PLACE		
248	7305 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	282	7413 RIGBY PLACE		
249	7307 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	283	7415 RIGBY PLACE		
250	7309 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	284	7417 RIGBY PLACE		
251	7313 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	285	7419 RIGBY PLACE		
252	7315 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	286	7420 WILD HONEY WAY		
253	7317 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	287	7418 WILD HONEY WAY		
254	7319 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	288	7416 WILD HONEY WAY		
255	7321 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	289	7414 WILD HONEY WAY		
256	7323 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	290	7422 RIGBY PLACE		
257	7325 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	291	7428 RIGBY PLACE		
258	7327 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	292	7426 RIGBY PLACE		
259	7331 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	293	7424 RIGBY PLACE		
260	7333 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	294	7428 RIGBY PLACE		
261	7335 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	295	7889 PORT CAPITAL ROAD		
262	7337 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	296	7897 PORT CAPITAL ROAD		
263	7339 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	297	7885 PORT CAPITAL ROAD		
264	7343 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	298	7883 PORT CAPITAL ROAD		
265	7345 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	299	7879 PORT CAPITAL ROAD		
266	7347 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	300	7877 PORT CAPITAL ROAD		
267	7349 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	301	7875 PORT CAPITAL ROAD		
268	7420 RIGBY PLACE			302	7873 PORT CAPITAL ROAD		
269	7418 RIGBY PLACE			303	7871 PORT CAPITAL ROAD		
270	7416 RIGBY PLACE			304	7869 PORT CAPITAL ROAD		
271	7414 RIGBY PLACE			305	7865 PORT CAPITAL ROAD		
272	7410 RIGBY PLACE			306	7863 PORT CAPITAL ROAD		
273	7408 RIGBY PLACE			307	7861 PORT CAPITAL ROAD		
274	7406 RIGBY PLACE			308	7859 PORT CAPITAL ROAD		
275	7404 RIGBY PLACE			309	7857 PORT CAPITAL ROAD		
276	7402 RIGBY PLACE			310	7855 PORT CAPITAL ROAD		
277	7401 RIGBY PLACE			311	7854 WILD HONEY WAY		
278	7403 RIGBY PLACE			312	7426 WILD HONEY WAY		
279	7405 RIGBY PLACE			313	7428 WILD HONEY WAY		

LOT NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2	LOT NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2
246	7301 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	280	7407 RIGBY PLACE		
247	7303 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	281	7409 RIGBY PLACE		
248	7305 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	282	7413 RIGBY PLACE		
249	7307 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	283	7415 RIGBY PLACE		
250	7309 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	284	7417 RIGBY PLACE		
251	7313 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	285	7419 RIGBY PLACE		
252	7315 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	286	7420 WILD HONEY WAY		
253	7317 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	287	7418 WILD HONEY WAY		
254	7319 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	288	7416 WILD HONEY WAY		
255	7321 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	289	7414 WILD HONEY WAY		
256	7323 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	290	7422 RIGBY PLACE		
257	7325 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	291	7428 RIGBY PLACE		
258	7327 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	292	7426 RIGBY PLACE		
259	7331 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	293	7424 RIGBY PLACE		
260	7333 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	294	7428 RIGBY PLACE		
261	7335 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	295	7889 PORT CAPITAL ROAD		
262	7337 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	296	7897 PORT CAPITAL ROAD		
263	7339 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	297	7885 PORT CAPITAL ROAD		
264	7343 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	298	7883 PORT CAPITAL ROAD		
265	7345 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	299	7879 PORT CAPITAL ROAD		
266	7347 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	300	7877 PORT CAPITAL ROAD		
267	7349 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	301	7875 PORT CAPITAL ROAD		
268	7420 RIGBY PLACE			302	7873 PORT CAPITAL ROAD		
269	7418 RIGBY PLACE			303	7871 PORT CAPITAL ROAD		
270	7416 RIGBY PLACE			304	7869 PORT CAPITAL ROAD		
271	7414 RIGBY PLACE			305	7865 PORT CAPITAL ROAD		
272	7410 RIGBY PLACE			306	7863 PORT CAPITAL ROAD		
273	7408 RIGBY PLACE			307	7861 PORT CAPITAL ROAD		
274	7406 RIGBY PLACE			308	7859 PORT CAPITAL ROAD		
275	7404 RIGBY PLACE			309	7857 PORT CAPITAL ROAD		
276	7402 RIGBY PLACE			310	7855 PORT CAPITAL ROAD		
277	7401 RIGBY PLACE			311	7854 WILD HONEY WAY		
278	7403 RIGBY PLACE			312	7426 WILD HONEY WAY		
279	7405 RIGBY PLACE			313	7428 WILD HONEY WAY		

LOT NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2	LOT NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2
246	7301 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	280	7407 RIGBY PLACE		
247	7303 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	281	7409 RIGBY PLACE		
248	7305 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	282	7413 RIGBY PLACE		
249	7307 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	283	7415 RIGBY PLACE		
250	7309 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	284	7417 RIGBY PLACE		
251	7313 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	285	7419 RIGBY PLACE		
252	7315 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	286	7420 WILD HONEY WAY		
253	7317 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	287	7418 WILD HONEY WAY		
254	7319 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	288	7416 WILD HONEY WAY		
255	7321 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	289	7414 WILD HONEY WAY		
256	7323 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	290	7422 RIGBY PLACE		
257	7325 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	291	7428 RIGBY PLACE		
258	7327 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	292	7426 RIGBY PLACE		
259	7331 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	293	7424 RIGBY PLACE		
260	7333 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	294	7428 RIGBY PLACE		
261	7335 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	295	7889 PORT CAPITAL ROAD		
262	7337 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	296	7897 PORT CAPITAL ROAD		
263	7339 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	297	7885 PORT CAPITAL ROAD		
264	7343 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	298	7883 PORT CAPITAL ROAD		
265	7345 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	299	7879 PORT CAPITAL ROAD		
266	7347 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	300	7877 PORT CAPITAL ROAD		
267	7349 SUMMIT ROCK ROAD	EXISTING - SEE CONTR. #14-4710-D	EXISTING - SEE CONTR. #14-4710-D	301	7875 PORT CAPITAL ROAD		
268	7420 RIGBY PLACE			302	7873 PORT CAPITAL ROAD		
269	7418 RIGBY PLACE			303	7871 PORT CAPITAL ROAD		
270	7416 RIGBY PLACE			304	7869 PORT CAPITAL ROAD		
271	7414 RIGBY PLACE			305	7865 PORT CAPITAL ROAD		
272	7410 RIGBY PLACE			306	7863 PORT CAPITAL ROAD		
273	7408 RIGBY PLACE			307	7861 PORT CAPITAL ROAD		
274	7406 RIGBY PLACE			308	7859 PORT CAPITAL ROAD		
275	7404 RIGBY PLACE			309	7857 PORT CAPITAL ROAD		
276	7402 RIGBY PLACE			310	7855 PORT CAPITAL ROAD		
277	7401 RIGBY PLACE			311	7854 WILD HONEY WAY		
278	7403 RIGBY PLACE			312	7426 WILD HONEY WAY		
279	7405 RIGBY PLACE			313	7428 WILD HONEY WAY		

NOTE: USE HO. CO. STD. DETAILS W-3.32 FOR TWIN AND W-3.28 FOR SINGLE OUTSIDE METER SETTINGS

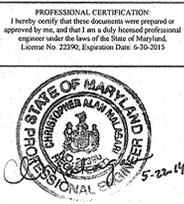
NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

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

DATE: 6/5/14

PLAN REFERENCE NUMBERS:
SDP-14-043, F-14-077, SDP-11-054, S-06-010, F-08-013, F-09-007, SDP-08-046, SDP-08-078, SDP-92-79, WP-92-165, WP-93-044, WP-93-094, WP-94-047, WP-06-114, WP-07-052, WP-08-020, WP-07-129, GP-08-024

OWNER/DEVELOPER
ATAPCO HOWARD SQUARE II
STATUTORY TRUST
10 E. Baltimore St. Suite 1600
Baltimore, MD 21202
(410) 347-7189



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DATE: 5/20/14

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

DATE: 6-5-14

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
8480 BALTIMORE NATIONAL PIKE
SUITE 215
ELLSWORTH CITY, MARYLAND 21043
(P) 410-465-9105 (F) 410-465-8644
WWW.BC-ENR.COM

DES:	MCR		
DRN:	MCR		
CHK:	CAM		
DATE:	05/21/2014		
BY:	NO.	REVISIONS	

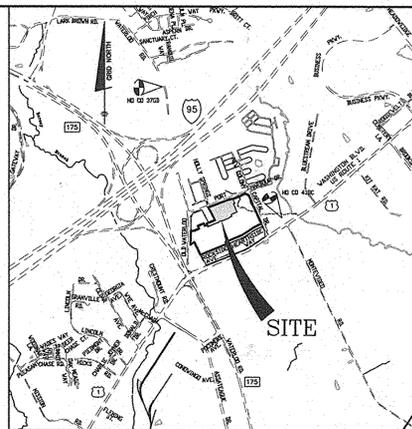
NO.	DESCRIPTION
1	TITLE SHEET PUBLIC WATER & SEWER MAINS
2	PLAN VIEW PUBLIC WATER & SEWER MAINS
3	PROFILE VIEWS PUBLIC WATER & SEWER MAINS
4	PROFILE VIEWS PUBLIC WATER & SEWER MAINS

PUBLIC WATER AND SEWER
TITLE SHEET AND DETAILS

HOWARD SQUARE
PHASE 6
LOTS 246-346 & OPEN SPACE LOT 347
TAX MAP 43, PARCEL A-3, GRIDS 3 & 9
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-4848-D

AS SHOWN
SHEET NO. 1 OF 4

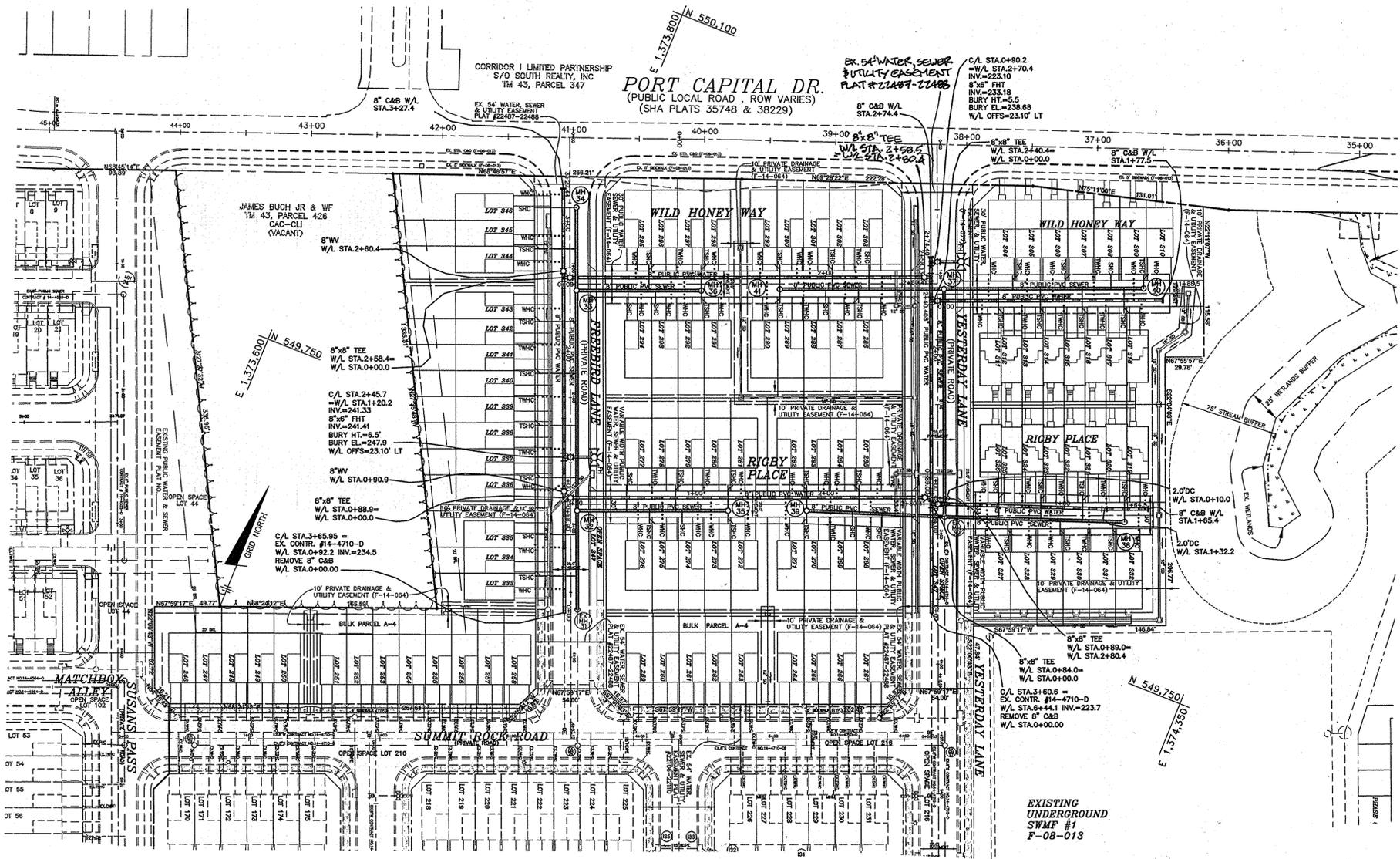
PUBLIC WATER AND SEWER MAIN EXTENSIONS HOWARD SQUARE PHASE 6 LOTS 246-346 AND OPEN SPACE LOT 347 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4848-D



ADC MAP: 24 GRID: D-7
VICINITY MAP
SCALE: 1" = 200'

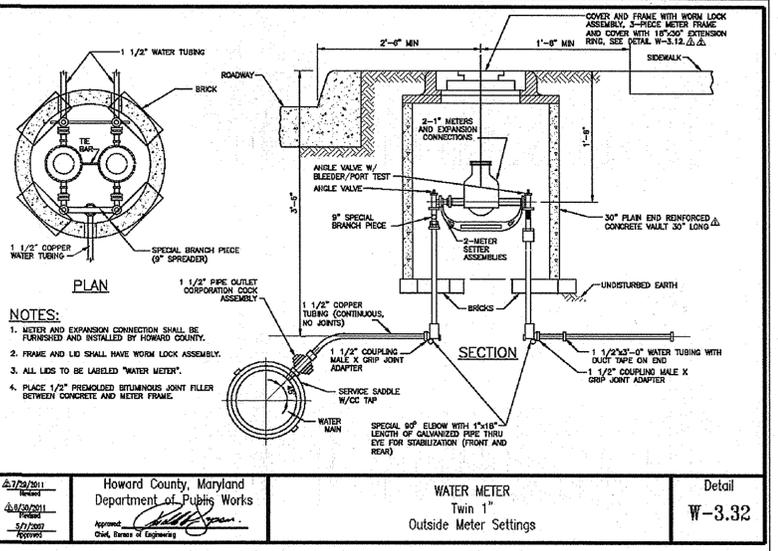
GENERAL NOTES

- PART 1 - GENERAL**
- APPROXIMATE LOCATION 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 FEBRUARY 2003 BY WINGS AERIAL MAPPING AND SUPPLEMENTED BY TOPOGRAPHIC SURVEY PERFORMED BY MILDENBERG BENDER & ASSOCIATES IN DECEMBER 2007 AND ARE SHOWN AT 2' INTERVALS.
 - THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM, NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 43R1 AND 43R2. ALL VERTICAL CONTROLS ARE BASED ON NAVD 83 VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HOLD GEODETIC CONTROL STA. 43R1 & 43R2.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12" 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 BRACING OF 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 THESE SPECIFICATIONS AND DETAILS 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 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.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
AT&T (CONSTRUCTION SERVICES

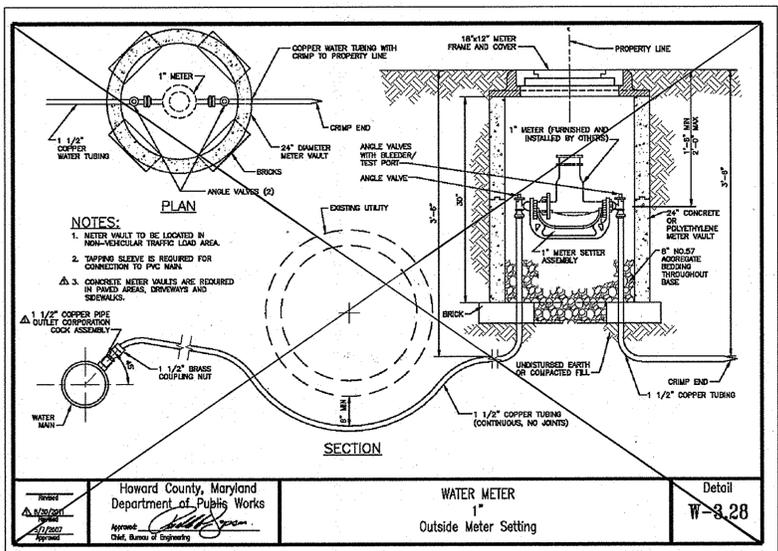


WATER AND SEWER PLAN
SCALE: 1" = 50'

Lot Number	S/L	Invert @ main or manhole	SHC	Invert @	Minimum	Notes
246	2+89.36	236.94	2.00%	237.66	241.52	#14-4710-D
247	2+89.36	236.94	2.00%	237.66	241.52	#14-4710-D
248	2+49.36	235.54	2.00%	236.26	240.12	#14-4710-D
249	2+49.36	235.54	2.00%	236.26	240.12	#14-4710-D
250	2+21.36	234.16	2.00%	235.37	239.23	#14-4710-D
251	1+86.07	233.32	2.00%	234.13	237.99	#14-4710-D
252	1+54.07	232.20	2.00%	232.92	236.78	#14-4710-D
253	1+54.07	232.20	2.00%	232.92	236.78	#14-4710-D
254	1+14.07	230.80	2.00%	231.52	235.38	#14-4710-D
255	1+14.07	230.80	2.00%	231.52	235.38	#14-4710-D
256	+81.36	228.65	2.00%	230.46	234.32	#14-4710-D
257	+54.07	228.69	2.00%	229.41	233.27	#14-4710-D
258	+54.07	228.69	2.00%	229.41	233.27	#14-4710-D
259	2+37.76	225.22	2.00%	225.42	229.52	#14-4710-D
260	2+00.76	223.93	2.00%	224.21	228.31	#14-4710-D
261	2+00.76	223.93	2.00%	224.21	228.31	#14-4710-D
262	1+80.76	222.53	2.00%	222.81	226.91	#14-4710-D
263	1+80.76	222.53	2.00%	222.81	226.91	#14-4710-D
264	1+05.47	220.59	2.00%	220.87	224.97	#14-4710-D
265	1+05.47	220.59	2.00%	220.87	224.97	#14-4710-D
266	+65.47	219.19	2.00%	219.47	223.57	#14-4710-D
267	+65.47	219.19	2.00%	219.47	223.57	#14-4710-D
268	+47.8	220.27	2.00%	220.55	224.35	PUBLIC
269	+70.3	221.40	2.00%	221.68	225.48	PUBLIC
270	+	223.25	2.00%	223.45	227.25	PUBLIC @ MH-39
271	+	223.25	2.00%	223.45	227.25	PUBLIC @ MH-39
272	+	223.75	2.00%	223.95	227.75	PUBLIC @ MH-35
273	+	223.75	2.00%	223.95	227.75	PUBLIC @ MH-35
274	+80.23	232.95	2.00%	233.32	237.12	PUBLIC
275	+65.23	232.45	2.00%	232.73	236.53	PUBLIC
276	+65.23	232.45	2.00%	232.73	236.53	PUBLIC
277	+37.75	232.11	2.00%	232.68	236.28	PUBLIC
278	+75.23	232.85	2.00%	233.33	236.93	PUBLIC
279	+75.23	232.85	2.00%	233.33	236.93	PUBLIC
280	+	233.75	2.00%	234.23	237.83	PUBLIC @ MH-35
281	+	233.75	2.00%	234.23	237.83	PUBLIC @ MH-35
282	+	223.25	2.00%	223.65	227.25	PUBLIC @ MH-39
283	+	223.25	2.00%	223.65	227.25	PUBLIC @ MH-39
284	+65.3	221.15	2.00%	221.63	225.23	PUBLIC
285	+65.3	221.15	2.00%	221.63	225.23	PUBLIC
286	+65.23	226.81	2.00%	227.09	230.89	PUBLIC
287	+65.23	226.81	2.00%	227.09	230.89	PUBLIC
288	+90.23	227.84	2.00%	228.21	232.01	PUBLIC
289	+	229.40	2.00%	229.60	233.40	PUBLIC @ MH-41
290	+	229.40	2.00%	229.60	233.40	PUBLIC @ MH-41
291	+	241.95	2.00%	242.15	245.95	PUBLIC @ MH-36
292	+	241.95	2.00%	242.15	245.95	PUBLIC @ MH-36
293	+60.23	241.15	2.00%	241.52	245.32	PUBLIC
294	+39.23	240.73	2.00%	241.10	244.90	PUBLIC
295	+65.23	241.05	2.00%	241.53	245.13	PUBLIC
296	+65.23	241.05	2.00%	241.53	245.13	PUBLIC
297	+	241.95	2.00%	242.35	245.95	PUBLIC @ MH-36
298	+	241.95	2.00%	242.35	245.95	PUBLIC @ MH-36
299	+	229.40	2.00%	229.80	233.40	PUBLIC @ MH-41
300	+	229.40	2.00%	229.80	233.40	PUBLIC @ MH-41
301	+85.23	227.64	2.00%	228.12	231.72	PUBLIC
302	+85.23	227.64	2.00%	228.12	231.72	PUBLIC
303	+57.23	226.48	2.00%	227.05	230.65	PUBLIC
304	+52.48	224.92	2.00%	225.20	229.00	PUBLIC
305	+52.48	224.92	2.00%	225.20	229.00	PUBLIC
306	+92.48	225.55	2.00%	225.83	229.63	PUBLIC
307	+92.48	225.55	2.00%	225.83	229.63	PUBLIC
308	+127.48	226.10	2.00%	226.47	230.27	PUBLIC
309	+	226.60	2.00%	226.80	230.60	PUBLIC @ MH-40
310	+	226.60	2.00%	226.80	230.60	PUBLIC @ MH-40
311	+41.48	224.75	2.00%	225.23	228.83	PUBLIC
312	+41.48	224.75	2.00%	225.23	228.83	PUBLIC
313	+73.48	225.25	2.00%	225.73	229.33	PUBLIC
314	+73.48	225.25	2.00%	225.73	229.33	PUBLIC
315	1+05.48	225.76	2.00%	226.24	229.84	PUBLIC
316	1+05.48	225.76	2.00%	226.24	229.84	PUBLIC
317	+37.48	226.26	2.00%	226.74	230.34	PUBLIC
318	+37.48	226.26	2.00%	226.74	230.34	PUBLIC
319	+	224.85	2.00%	225.25	228.85	PUBLIC @ MH-38
320	+	224.85	2.00%	225.25	228.85	PUBLIC @ MH-38
321	1+05.53	223.16	2.00%	223.64	227.24	PUBLIC
322	1+05.53	223.16	2.00%	223.64	227.24	PUBLIC
323	+73.51	221.56	2.00%	222.04	225.64	PUBLIC
324	+73.51	221.56	2.00%	222.04	225.64	PUBLIC
325	+41.5	219.98	2.00%	220.44	224.04	PUBLIC
326	+41.5	219.98	2.00%	220.44	224.04	PUBLIC
327	+48.35	220.30	2.00%	220.59	224.38	PUBLIC
328	+48.35	220.30	2.00%	220.59	224.38	PUBLIC
329	+88.37	222.30	2.00%	222.58	226.38	PUBLIC
330	+88.37	222.30	2.00%	222.58	226.38	PUBLIC
331	1+28.39	224.30	2.00%	224.58	228.38	PUBLIC
332	1+28.39	224.30	2.00%	224.58	228.38	PUBLIC
333	+26	228.73	2.00%	229.45	233.31	PUBLIC
334	+26	228.73	2.00%	229.45	233.31	PUBLIC
335	+58	230.33	2.00%	231.14	235.00	PUBLIC
336	+25.59	232.63	2.00%	233.35	237.21	PUBLIC
337	+25.59	232.63	2.00%	233.35	237.21	PUBLIC
338	+65.59	234.63	2.00%	235.35	239.21	PUBLIC
339	+65.59	234.63	2.00%	235.35	239.21	PUBLIC
340	1+05.59	236.63	2.00%	237.35	241.21	PUBLIC
341	1+05.59	236.63	2.00%	237.35	241.21	PUBLIC
342	1+45.59	238.63	2.00%	239.35	243.21	PUBLIC
343	1+45.59	238.63	2.00%	239.35	243.21	PUBLIC
344	+32.01	241.55	2.00%	242.27	246.13	PUBLIC
345	+32.01	241.55	2.00%	242.27	246.13	PUBLIC
346	+	243.25	2.00%	243.89	247.75	PUBLIC @ MH-34



WATER METER
Twin 1" Outside Meter Settings
Detail W-3.32



WATER METER
1" Outside Meter Setting
Detail W-3.28

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

NOTE: HOUSE CONNECTIONS TO BE SIZED ACCORDINGLY:
SINGLE WHC = 1-1/2"
TWIN WHC = 1-1/2"
SINGLE SHC = 4"
TWIN SHC = 6"x4"

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
S. J. CLEVER
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
C. S. HAY
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE
SUITE 315
ELICOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-8444
WWW.BM-CMLENGINEERING.COM



DES:	MCR
DRN:	MCR
CHK:	CAM
DATE:	05/21/2014
BY:	NO.
REVISIONS:	
DATE:	600 SCALE MAPS: 43
BLOCKS:	3 & 9

PUBLIC WATER AND SEWER
PLAN VIEW

HOWARD SQUARE
PHASE 6
LOTS 246-346 & OPEN SPACE LOT 347
TAX MAP 43, PARCEL A-3, GRIDS 3 & 9
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-4848-D
SCALE: AS SHOWN
SHEET NO. 2 OF 4

