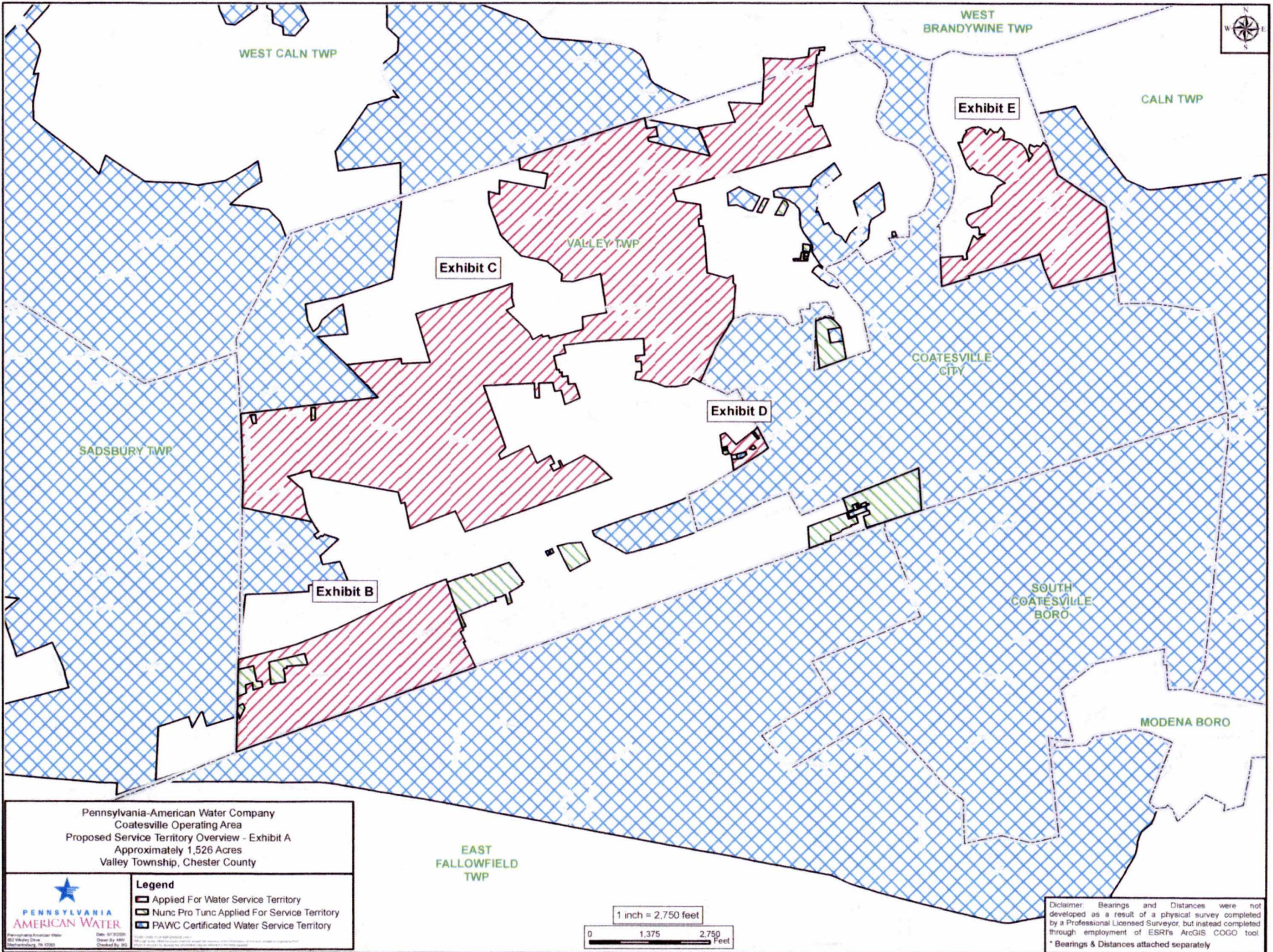


**Application of Pennsylvania-American Water Company for Acquisition of
the Water Assets of Valley Township
66 Pa. C.S. § 1329
Application Filing Checklist – Water/Wastewater
Docket No. A-2020-3019859**

16. Map of Service Area. Provide a scalable map or plan of suitable scale highlighting the boundaries of the proposed service area that includes:
- a. The extent of the proposed service area with any existing adjoining service areas identified.
 - b. A north arrow depicting map orientation.
 - c. A written description of the boundaries for the service territory utilizing bearing angles and distances.
 - d. Size of the service territory area in terms of acres or square miles.
 - e. Identification and depiction of all municipal boundaries relative to the service area.
 - f. Depiction of the location or route of the waterworks or wastewater collection, treatment or disposal facilities.

RESPONSE: For subparts a. through e., see enclosed maps and written descriptions attached as **Appendix A-16-a through Appendix A-16-e.**

For subpart f., see enclosed map at **Appendix A-16-f (CONFIDENTIAL).**

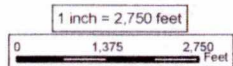


Pennsylvania-American Water Company
 Coatesville Operating Area
 Proposed Service Territory Overview - Exhibit A
 Approximately 1,526 Acres
 Valley Township, Chester County

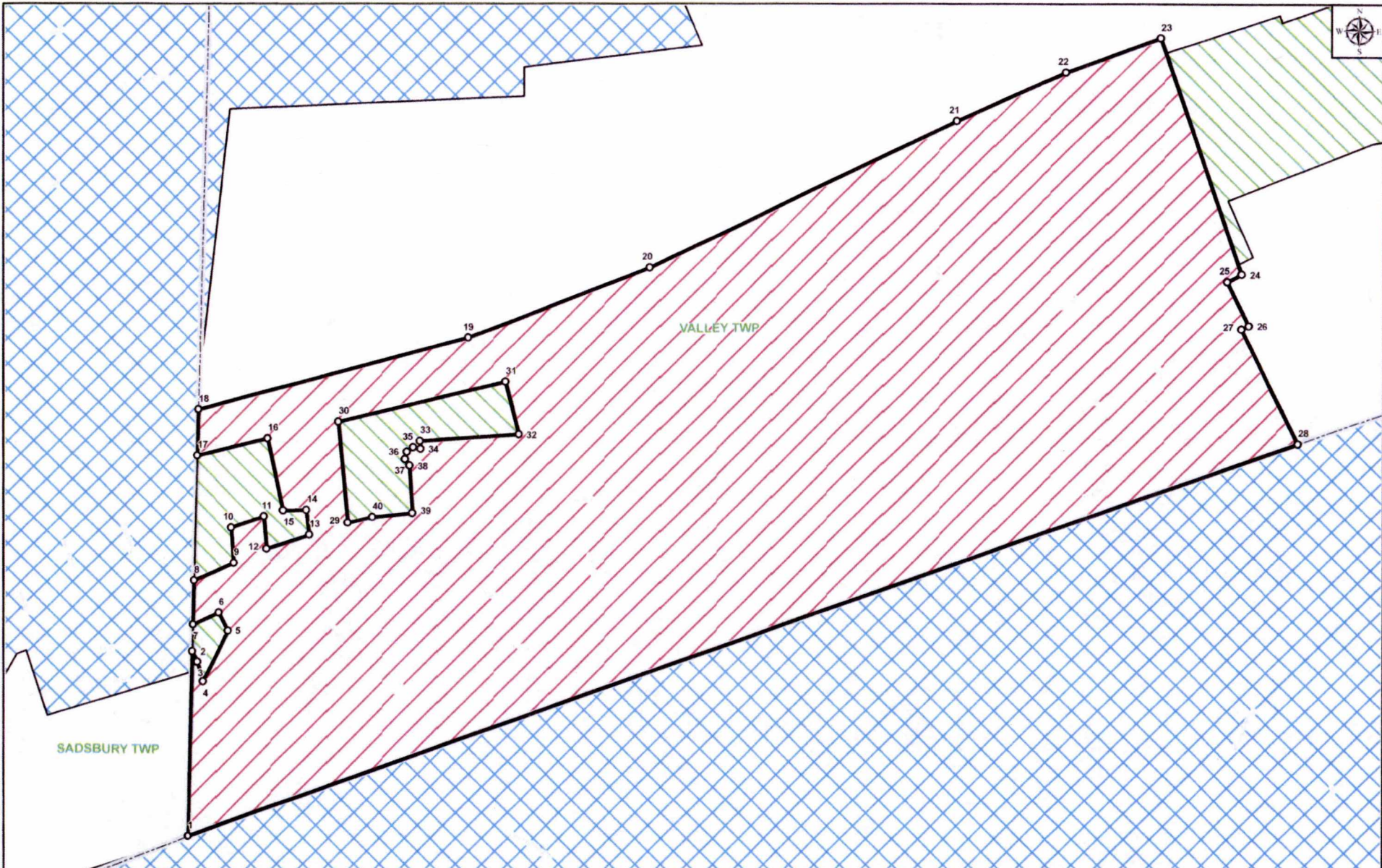


Legend

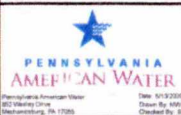
- Applied For Water Service Territory
- Nunc Pro Tunc Applied For Service Territory
- PAWC Certificated Water Service Territory



Disclaimer: Bearings and Distances were not developed as a result of a physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESR's ArcGIS COGO tool.
 *Bearings & Distances attached separately

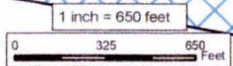


Pennsylvania-American Water Company
 Coatesville Operating Area
 Proposed Service Territory - Exhibit B
 Approximately 235 Acres
 Valley Township, Chester County



○ Bearings & Distance Points
 ■ Applied For Water Service Territory
 ■ Nunc Pro Tunc Applied For Service Territory
 ■ PAWC Certificated Water Service Territory

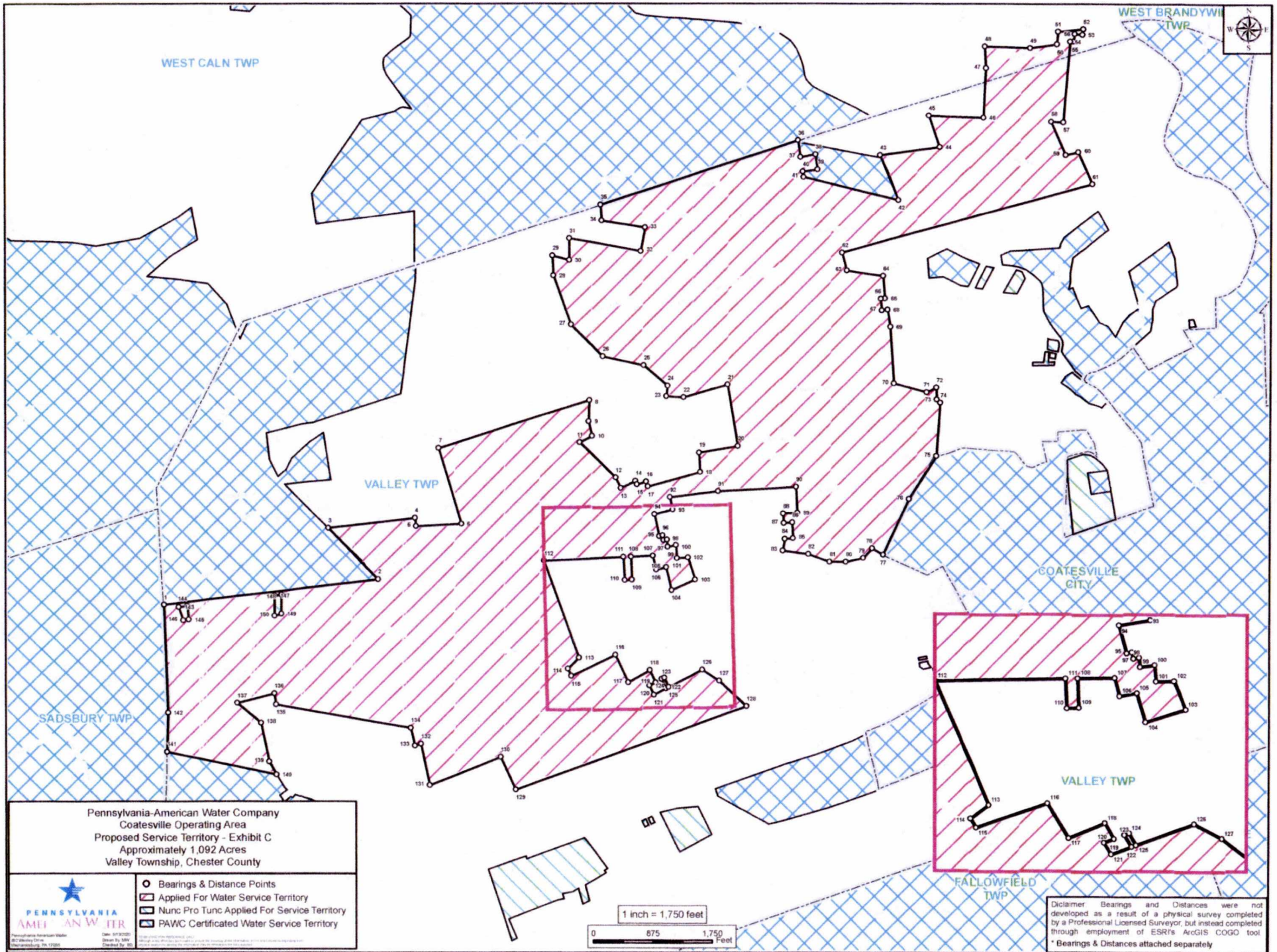
Pennsylvania American Water
 600 West Chester Pike
 Coatesville, PA 19380
 Date: 10/20/2016
 Drawn By: JSP
 Checked By: JSP



Disclaimer: Bearings and Distances were not developed as a result of a physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS COGO tool.
 • Bearings & Distances attached separately

Starting Point: The point at which the municipal boundaries of Valley Township, Sadsbury Township, and East Fallowfield Township meet.

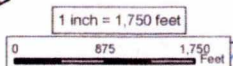
Sequence	From	To	Bearing	Distance
1	27	28	S25°57'38"E	633.413055
2	28	1	S70°27'39"W	5856.727714
3	1	2	N1°31'44"E	919.82003
4	2	3	S27°50'58"E	57.333032
5	3	4	S14°47'18"E	103.115626
6	4	5	N26°53'20"E	284.570585
7	5	6	N28°10'31"W	101.685987
8	6	7	S65°54'31"W	142.614832
9	7	8	N1°31'44"E	217.902611
10	8	9	N66°31'08"E	221.457214
11	9	10	N4°36'02"W	177.096614
12	10	11	N71°40'54"E	174.294306
13	11	12	S4°28'33"E	161.87032
14	12	13	N71°06'08"E	222.316322
15	13	29	N73°22'04"E	202.259083
16	29	40	N76°38'47"E	125.822831
17	40	39	N84°10'59"E	203.937104
18	39	38	N3°40'07"W	235.008564
19	38	37	N33°25'45"W	39.667299
20	37	36	N12°19'08"E	38.068514
21	36	35	N57°04'06"E	38.067695
22	35	34	S78°40'34"E	37.26442
23	34	33	N3°40'04"W	40.000938
24	33	32	N86°12'48"E	488.123672
25	32	31	N13°50'36"W	270.000436
26	31	30	S76°35'48"W	854.609209
27	30	29	S5°15'33"E	506.275218
28	29	13	S73°22'04"W	202.259083
29	13	14	N6°19'55"W	123.268971
30	14	15	S89°03'19"W	114.999631
31	15	16	N11°47'39"W	365.56491
32	16	17	S76°35'08"W	367.427588
33	17	18	N1°31'43"E	229.332393
34	18	19	N75°13'36"E	1398.745402
35	19	20	N68°48'55"E	969.185255
36	20	21	N64°21'39"E	1691.821069
37	21	22	N65°55'42"E	591.237246
38	22	23	N69°51'50"E	493.251364
39	23	24	S18°53'49"E	1240.424245
40	24	25	S63°23'35"W	80.005639
41	25	26	S25°57'36"E	244.151088
42	26	27	S64°02'23"W	40.000117



Pennsylvania-American Water Company
 Coatesville Operating Area
 Proposed Service Territory - Exhibit C
 Approximately 1,092 Acres
 Valley Township, Chester County



- Bearings & Distance Points
- Applied For Water Service Territory
- Nunc Pro Tunc Applied For Service Territory
- PAWC Certificated Water Service Territory



Disclaimer: Bearings and Distances were not developed as a result of a physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESR's ArcGIS COGO tool.
 * Bearings & Distances attached separately

Starting Point: The southwestern most point of parcel UPI 38-1-23.

Sequence	From	To	Bearing	Distance
1	52	53	S6°18'44"W	78.99426
2	53	54	N86°08'53"W	110.866461
3	54	55	S9°17'18"W	112.506143
4	55	56	N86°08'53"W	46.055046
5	56	57	S4°36'02"W	1178.271233
6	57	58	N87°09'45"W	170.126824
7	58	59	S22°32'03"E	528.799368
8	59	60	N78°34'14"E	188.087943
9	60	61	S23°06'41"E	507.399896
10	61	62	S74°25'32"W	3756.11148
11	62	63	S15°49'41"E	269.999239
12	63	64	S81°33'18"E	541.070726
13	64	65	S4°20'50"E	331.205835
14	65	66	S85°39'10"W	60.000616
15	66	67	S3°41'02"E	169.315864
16	67	68	N85°44'55"E	87.101664
17	68	69	S8°53'21"E	253.56656
18	69	70	S3°41'02"E	824.739649
19	70	71	S74°45'09"E	486.690922
20	71	72	N64°24'50"E	154.99958
21	72	73	S0°19'47"E	171.373326
22	73	74	S49°00'11"E	72.6178
23	74	75	S4°19'59"W	784.211532
24	75	76	S31°48'22"W	740.242976
25	76	77	S24°31'28"W	896.064272
26	77	78	N59°38'34"W	189.519723
27	78	79	S41°58'54"W	189.331493
28	79	80	S77°25'11"W	265.531014
29	80	81	N89°46'11"W	240.245938
30	81	82	N70°04'55"W	329.491957
31	82	83	N81°54'59"W	380.231099
32	83	84	N9°24'04"E	170.900407
33	84	85	N86°40'48"E	123.868919
34	85	86	N2°36'42"W	231.628348
35	86	87	S85°31'32"W	127.585916
36	87	88	N2°51'46"W	140.049797
37	88	89	N86°34'44"E	209.513412
38	89	90	N2°53'05"W	378.567714
39	90	91	S86°41'55"W	1136.539955
40	91	92	S83°03'07"W	713.949305
41	92	93	S12°58'25"E	185.489184
42	93	94	S76°34'07"W	280.958116
43	94	95	S12°57'20"E	329.568966

Starting Point: The southwestern most point of parcel UPI 38-1-23.

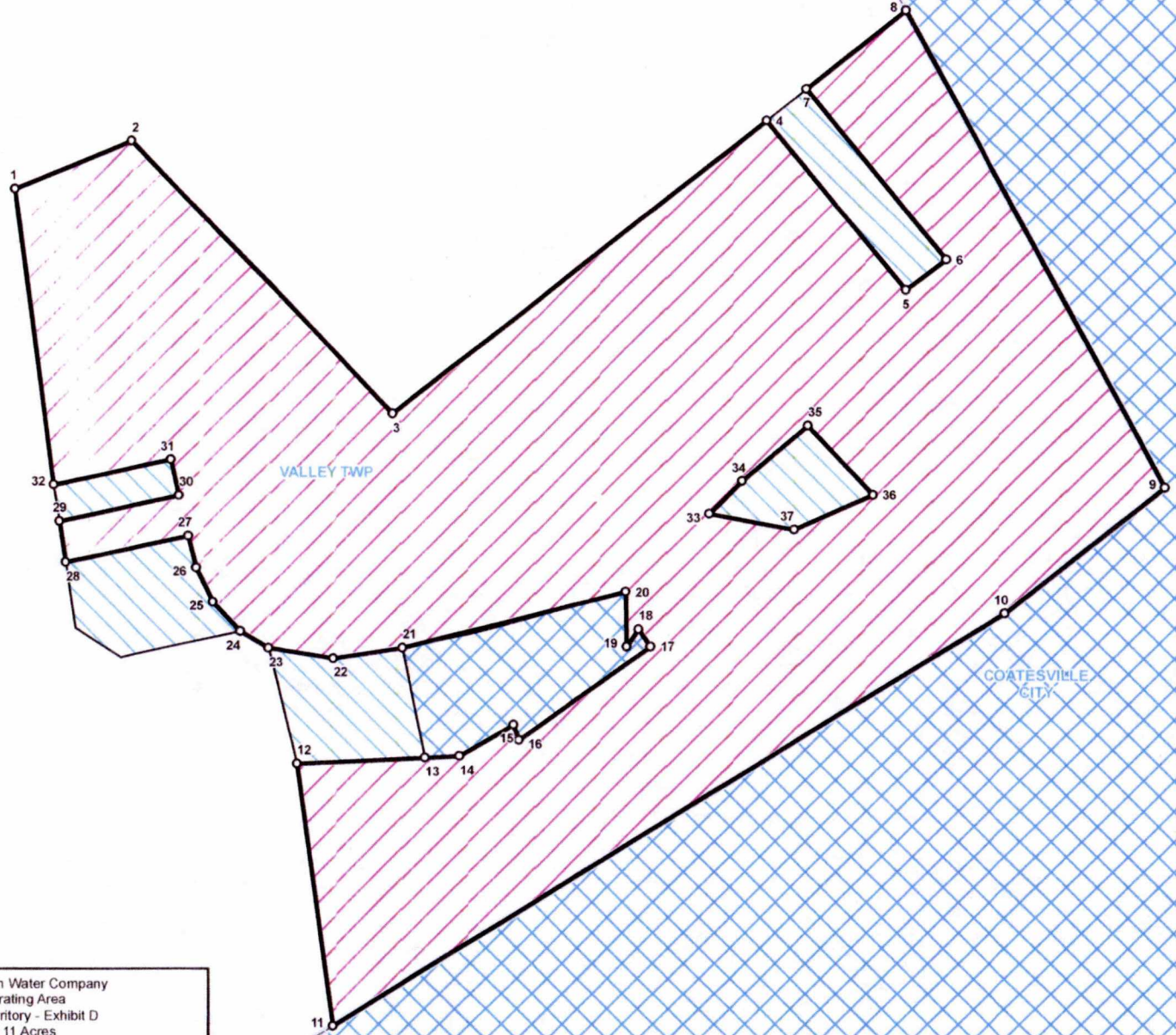
Sequence	From	To	Bearing	Distance
44	95	96	N76°34'07"E	47.442612
45	96	97	S13°08'40"E	75.960555
46	97	98	N76°51'22"E	49.439127
47	98	99	S5°55'02"E	103.660367
48	99	100	N79°00'05"E	127.975024
49	100	101	S5°02'44"E	190.98993
50	101	102	N87°13'36"E	158.763386
51	102	103	S18°07'43"E	341.650404
52	103	104	S66°10'21"W	376.191569
53	104	105	N14°11'11"W	342.208272
54	105	106	S76°51'43"W	154.580153
55	106	107	N13°07'59"W	211.520519
56	107	108	S87°40'21"W	321.970727
57	108	109	S2°51'15"E	339.251333
58	109	110	S86°47'44"W	105.672228
59	110	111	N2°51'13"W	339.683214
60	111	112	S87°13'16"W	1152.701775
61	112	113	S19°27'47"E	1504.997352
62	113	114	S44°43'35"W	225.848945
63	114	115	S25°50'54"E	117.210882
64	115	116	N64°09'02"E	703.772784
65	116	117	S25°22'42"E	446.414932
66	117	118	N60°07'18"E	361.478756
67	118	119	S25°28'08"E	199.209403
68	119	120	S64°40'36"W	100.05934
69	120	121	S27°01'53"E	149.978939
70	121	122	N62°58'06"E	199.95717
71	122	123	N25°50'50"W	150.057753
72	123	124	N62°34'19"E	45.018495
73	124	125	S25°50'49"E	150.058653
74	125	126	N63°05'32"E	558.637921
75	126	127	S57°24'39"E	296.692905
76	127	128	S46°25'37"E	540.633418
77	128	129	S70°06'36"W	3582.786195
78	129	130	N25°57'39"W	524.999356
79	130	131	S68°37'59"W	1121.650268
80	131	132	N11°51'38"W	614.086211
81	132	133	S75°06'11"W	93.332901
82	133	134	N12°34'34"W	267.856493
83	134	135	N80°07'41"W	2011.971957
84	135	136	N9°21'48"W	161.583895
85	136	150	N0°27'37"E	1132.033591
86	150	149	N71°19'42"E	105.455271

Starting Point: The southwestern most point of parcel UPI 38-1-23.

Sequence	From	To	Bearing	Distance
87	149	148	N0°09'42"W	276.4551
88	148	147	S83°25'43"W	100.630111
89	147	150	S0°09'43"E	298.700192
90	150	136	S0°27'37"W	1132.033591
91	136	137	S75°04'29"W	554.444743
92	137	138	S49°49'07"E	447.383677
93	138	139	S12°12'39"E	578.712989
94	139	140	S29°22'22"E	215.15916
95	140	141	N78°23'49"W	1642.544026
96	141	142	N1°31'42"E	570.911244
97	142	1	N1°54'03"W	1582.825094
98	1	143	S80°56'55"E	222.98166
99	143	146	S17°37'39"E	206.781276
100	146	145	N83°04'57"E	82.901514
101	145	144	N6°26'48"W	202.183968
102	144	143	S83°32'58"W	122.994672
103	143	1	N80°56'55"W	222.98166
104	1	2	N83°15'38"E	3174.76722
105	2	3	N44°21'18"W	1043.05211
106	3	4	N83°18'45"E	1267.044579
107	4	5	S7°01'00"E	123.349788
108	5	6	N86°52'24"E	662.156612
109	6	7	N16°42'00"W	1156.817873
110	7	8	N72°28'47"E	2315.343188
111	8	9	S1°12'15"W	311.090689
112	9	10	S12°42'35"E	219.783322
113	10	11	S63°05'00"W	195.428417
114	11	12	S45°07'38"E	730.368859
115	12	13	S26°30'37"E	174.485384
116	13	14	N63°29'07"E	238.760411
117	14	15	S18°37'24"E	53.858588
118	15	16	N74°19'33"E	145.118392
119	16	17	S17°07'36"E	72.23281
120	17	18	N74°50'54"E	802.069337
121	18	19	N2°57'21"W	286.918758
122	19	20	N80°31'57"E	576.765079
123	20	21	N9°18'36"W	910.726751
124	21	22	S74°08'30"W	677.594677
125	22	23	N86°27'52"W	255.760769
126	23	24	N8°53'18"E	157.915292
127	24	25	N50°31'14"W	463.886665
128	25	26	N77°54'24"W	611.551993
129	26	27	N44°23'46"W	652.842892

Starting Point: The southwestern most point of parcel UPI 38-1-23.

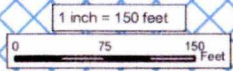
Sequence	From	To	Bearing	Distance
130	27	28	N19°23'34"W	765.667198
131	28	29	N3°00'43"W	289.437815
132	29	30	S75°05'19"E	252.425351
133	30	31	N0°14'06"E	317.059669
134	31	32	S79°44'34"E	1053.505957
135	32	33	N10°27'39"E	347.445953
136	33	34	N81°03'21"W	643.174521
137	34	35	N4°00'27"W	239.245366
138	35	36	N72°00'02"E	3039.427813
139	36	37	S8°54'56"E	247.920728
140	37	38	N79°42'24"E	220.062813
141	38	39	S8°55'00"E	220.000807
142	39	40	S81°05'00"W	219.999722
143	40	41	S8°55'00"E	78.000663
144	41	42	S76°27'23"E	1430.073234
145	42	43	N22°10'19"W	705.50172
146	43	44	N81°50'31"E	861.170772
147	44	45	N18°15'31"W	483.970864
148	45	46	S87°33'37"E	784.917413
149	46	47	N2°51'02"E	726.815363
150	47	48	N2°51'48"W	315.711157
151	48	49	S88°11'23"E	653.10194
152	49	50	N81°53'29"E	392.980703
153	50	51	N4°48'19"E	185.770961
154	51	52	N84°07'36"E	356.363109



Pennsylvania-American Water Company
 Coatesville Operating Area
 Proposed Service Territory - Exhibit D
 Approximately 11 Acres
 Valley Township, Chester County



- Bearings & Distance Points
- Applied For Water Service Territory
- Nunc Pro Tunc Applied For Service Territory
- PAWC Certificated Water Service Territory

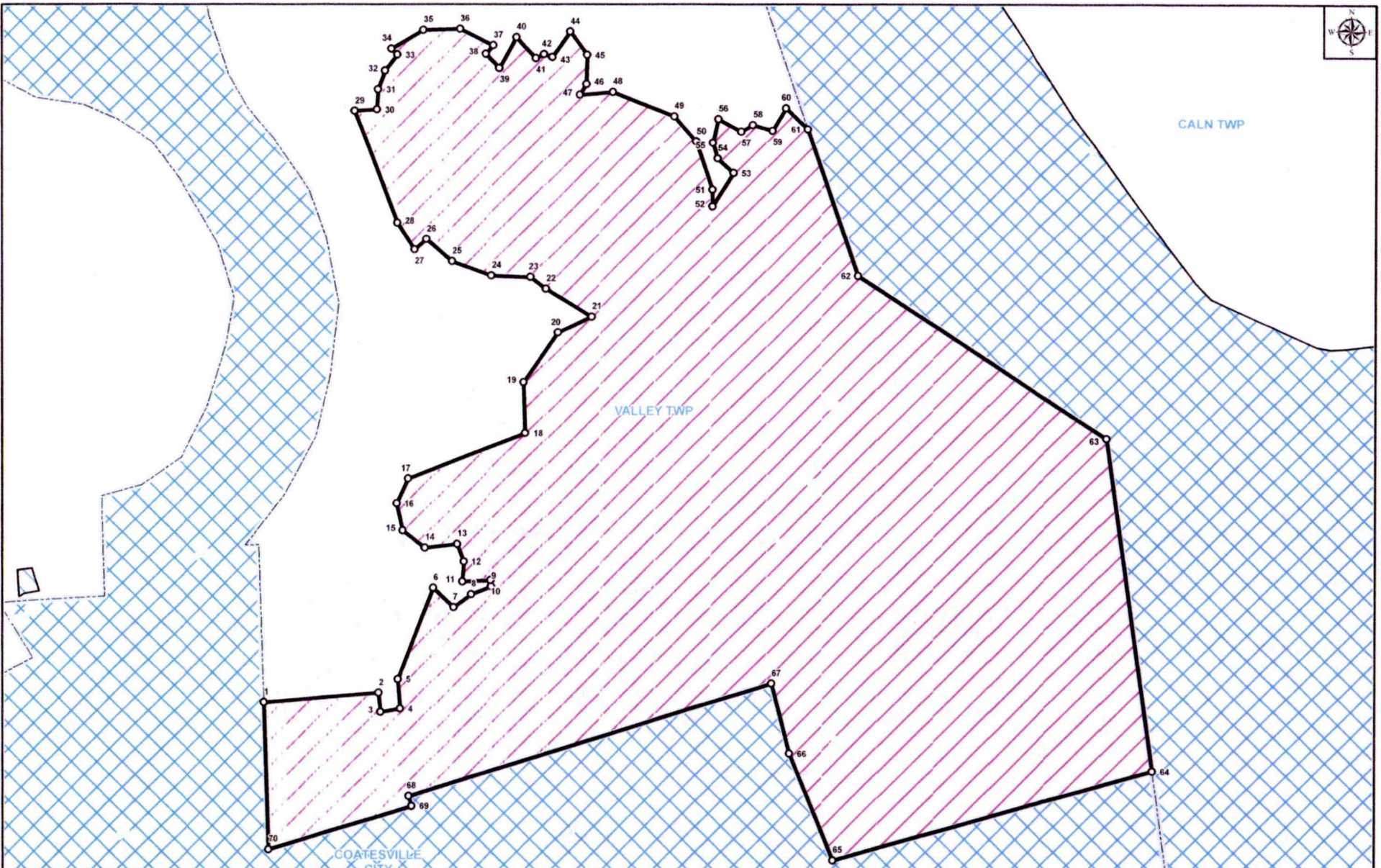


Disclaimer: Bearings and Distances were not developed as a result of a physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS COGO tool.
 * Bearings & Distances attached separately

Responsible Supervisor: [Name] Date: 10/20/2011
 Checked By: [Name]
 Pennsylvania, PA 17305

Starting Point: The northwestern most point of parcel UPI 38-5-25.1.

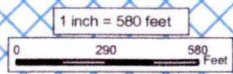
Sequence	From	To	Bearing	Distance
1	8	9	S28°15'29"E	522.497761
2	9	10	S51°22'29"W	195.032704
3	10	11	S58°26'13"W	762.191151
4	11	12	N7°47'33"W	255.76125
5	12	13	N87°27'04"E	125.437084
6	13	14	N87°27'02"E	32.906583
7	14	15	N59°14'54"E	60.142565
8	15	16	S17°32'09"E	16.000565
9	16	17	N54°48'32"E	157.456588
10	17	18	N35°11'08"W	20.280504
11	18	19	S34°31'31"W	20.253148
12	19	20	N0°48'13"W	52.970211
13	20	33	N46°56'16"E	109.778945
14	33	37	S79°43'58"E	83.736828
15	37	36	N66°02'50"E	82.603895
16	36	35	N42°55'54"W	91.421994
17	35	34	S50°04'08"W	83.911731
18	34	33	S44°37'17"W	44.519001
19	33	20	S46°56'16"W	109.778945
20	20	21	S75°53'48"W	222.611084
21	21	22	S81°43'43"W	68.753087
22	22	23	N81°15'19"W	63.544697
23	23	24	N58°42'40"W	31.240686
24	24	25	N42°38'45"W	38.800585
25	25	26	N25°18'20"W	36.664273
26	26	27	N13°02'15"W	31.561589
27	27	28	S78°09'59"W	123.767394
28	28	29	N8°38'44"W	40.0612
29	29	30	N78°10'30"E	120.707692
30	30	31	N13°01'29"W	35.407957
31	31	32	S78°10'28"W	118.000403
32	32	1	N7°27'13"W	288.214329
33	1	2	N68°05'55"E	123.898945
34	2	3	S43°42'06"E	364.546148
35	3	4	N51°56'10"E	458.677512
36	4	5	S39°24'27"E	211.388872
37	5	6	N52°43'19"E	48.362026
38	6	7	N39°09'26"W	212.415256
39	7	8	N51°29'24"E	122.099784



Pennsylvania-American Water Company
 Coatesville Operating Area
 Proposed Service Territory - Exhibit E
 Approximately 188 Acres
 Valley Township, Chester County



- Bearings & Distance Points
- Applied For Water Service Territory
- Nunc Pro Tunc Applied For Service Territory
- PAWC Certificated Water Service Territory



Disclaimer: Bearings and Distances were not developed as a result of a physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS COGO tool.
 * Bearings & Distances attached separately

Starting Point: The northwestern most point of parcel UPI 38-3-122.

Sequence	From	To	Bearing	Distance
1	1	2	N85°09'30"E	512.550436
2	2	3	S4°56'17"E	86.780105
3	3	4	N80°26'21"E	89.701992
4	4	5	N4°14'05"W	132.197924
5	5	6	N21°16'13"E	437.757132
6	6	7	S46°54'08"E	127.234082
7	7	8	N53°40'43"E	98.906932
8	8	9	N68°30'28"E	95.598279
9	9	10	N5°07'21"W	27.429546
10	10	11	S87°15'44"W	126.83176
11	11	12	N3°55'27"E	88.623774
12	12	13	N20°37'15"W	84.121506
13	13	14	S83°41'56"W	146.820957
14	14	15	N52°32'26"W	126.660506
15	15	16	N12°45'05"W	123.920291
16	16	17	N25°26'40"E	121.181386
17	17	18	N68°50'03"E	563.815031
18	18	19	N1°41'02"W	228.394617
19	19	20	N34°12'00"E	267.045471
20	20	21	N64°50'57"E	167.036409
21	21	22	N58°43'44"W	238.397096
22	22	23	N51°53'36"W	85.692163
23	23	24	N87°46'30"W	173.781025
24	24	25	N70°15'25"W	187.485906
25	25	26	N49°42'17"W	152.352433
26	26	27	S49°28'45"W	70.652284
27	27	28	N33°00'13"W	143.00948
28	28	29	N20°47'05"W	532.4586
29	29	30	N85°43'17"E	98.581968
30	30	31	N3°06'15"E	89.396193
31	31	32	N20°58'27"E	89.029953
32	32	33	N37°44'36"E	89.029342
33	33	34	N43°52'18"W	37.740657
34	34	35	N60°06'09"E	165.660138
35	35	36	N88°03'05"E	165.659798
36	36	37	S63°59'57"E	165.65997
37	37	38	S39°58'32"W	50.469928
38	38	39	S42°51'49"E	86.91151
39	39	40	N29°07'00"E	158.425073
40	40	41	S41°35'41"E	126.242778
41	41	42	N63°02'31"E	40.378212
42	42	43	S70°15'14"E	40.292596
43	43	44	N34°27'41"E	137.896819

Starting Point: The northwestern most point of parcel UPI 38-3-122.

Sequence	From	To	Bearing	Distance
44	44	45	S36°18'47"E	129.279907
45	45	46	S1°30'53"W	129.524265
46	46	47	S32°31'43"W	55.601538
47	47	48	N84°51'06"E	148.95996
48	48	49	S68°13'19"E	297.539108
49	49	50	S40°52'28"E	149.780686
50	50	51	S18°35'11"E	224.656264
51	51	52	S0°18'37"W	74.228089
52	52	53	N31°54'21"E	174.739811
53	53	54	N46°36'57"W	94.395486
54	54	55	N17°51'56"W	73.999369
55	55	56	N13°54'51"E	108.85921
56	56	57	S60°10'12"E	114.694301
57	57	58	N59°23'51"E	59.091184
58	58	59	S73°04'23"E	92.161719
59	59	60	N30°34'53"E	118.53303
60	60	61	S46°06'50"E	137.205976
61	61	62	S19°05'48"E	690.439312
62	62	63	S56°38'32"E	1317.793909
63	63	64	S7°45'43"E	1495.68826
64	64	65	S74°17'04"W	1471.92274
65	65	66	N22°17'26"W	512.997191
66	66	67	N14°38'02"W	322.304778
67	67	68	S72°46'41"W	1695.107764
68	68	69	S16°11'36"E	45.794877
69	69	70	S73°00'02"W	666.818072
70	70	1	N1°43'33"W	656.372987