

DRAINAGE STUDY,
CITY OF POQUOSON

HD1683.V8.D7 1992

UPDATE INVENTORY
OF
STRUCTURES
AND
IMPROVEMENTS

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HD
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, 1992

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POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 1

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	12"	-	-	Poquoson River
2	YD w/12" out	-	-	1
3	12"	-	-	2
4	12"	-	-	Poquoson River
5	12"	-	-	4
6	DI w/18" out	6.38	4.23	7
7	18"	-	3.90	Poquoson River

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 2

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	12"	-	4.28	2
2	12"	-	3.99	3
3	15"	-	3.91	4
4	15"	-	-	Canal to Lyon's Creek
5	12"	-	3.88	6
6	12"	-	4.10	3
7	12"	-	4.13	8
8	12"	-	4.33	51
9	12"	-	-	10
10	12"	-	4.47	Lyon's Creek
11	12"	-	-	12
12	12"	-	-	13
13	B=2, D=2, Z=1	-	-	Canal to Roberts Creek
14	EW w/15"	3.89	0.99	Roberts Creek
15	DI	-	-	-
	15" out	4.59	1.58	14
	12" in	4.59	1.58	14
16	DI	-	-	-
	12" out	4.65	1.81	15
	12" in	4.65	1.81	15
17	DI w/12" out	4.93	2.33	16
18	EW w/24"	3.63	0.32	Roberts Creek
19	DI	-	-	-
	24" out	4.58	1.09	18
	21" in	4.58	1.09	18
	12" in	4.58	1.86	18
20	MH w/21" in and out	4.73	1.39	19
21	EW w/21"	4.03	1.71	20
22	DI w/12" out	4.58	1.98	19
23	48"	-	-	Roberts Creek
24	48"	-	-	23
25	B=2, D=3, Z=.33	-	-	24
26	18"	-	-	25
27	18"	-	-	26
28	B=2, D=3, Z=.33	-	-	27
29	B=3, D=3, Z=.33	-	-	30
30	B=4, D=.5, Z=1.3	-	-	Roberts Creek
31	EW w/18"	-	-0.01	Canal to Poquoson River
32	DI	-	-	-
	18" out	3.78	0.94	31
	15" in	3.78	1.23	31
	15" in	3.78	1.15	31
33	DI	-	-	-
	15" out	3.98	1.76	32
	15" in	3.98	1.79	32
	15" in	3.98	1.82	32
34	15"	-	1.83	33
35	15"	-	1.58	32

TOPO SHEET NUMBER 2

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
36	15"	-	2.68	32
37	12"	-	0.91	Roberts Creek
38	DI	-	-	-
	12" out	3.91	1.23	37
	15" in	3.91	1.28	37
39	DI	-	-	-
	15" in	-	1.47	38
	15" out	-	1.33	38
40	15"	-	1.74	39
41	15"	-	1.62	Roberts Creek
42	DI w/15" out	3.73	1.78	41
43	15"	-	-	Canal to Roberts Creek
44	DI w/15" in and out	3.73	1.06	43
45	DI w/15" out	3.73	1.13	44
46	15"	-	2.68	33
47	12"	-	-	48
48	12"	-	-	49
49	B=2, D=2, Z=.5	-	-	50
50	B=8, D=5, Z=1.3	-	-	Poquoson River
51	15"	-	2.52	52
52	15"	-	2.30	57
53	12"	-	-	Poquoson River
54	12"	-	-	53
55	12"	-	-	24
56	12"	-	-	55
57	B=3.5, D=2, Z=1	-	-	Lyon's Creek

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 4

NUMBER DESCRIPTION TOP INVERT DOWNSTREAM NUMBER
All pipes are RCP
unless otherwise noted

*Indicates proposed structures

1	B=40, D=4, Z=5	-	2.78	Poquoson River
2	B=2, D=1.5, Z=1.3	-	3.98	1
3	B=6, D=1.5, Z=5	-	4.03	1
*	PG-5	-	1.44	1
4	EW w/24" RCP	-	2.31	Poquoson River
5	24"	-	2.44	4
6	B=2, D=3.5, Z=2	-	2.75	5
7	24"	-	2.98	6
8	YD w/24" in and out	6.97	3.21	7
9	DI w/24" in and out	8.20	3.44	8
10	DI w/24" in and out	8.31	3.13	9
11	24"	-	3.65	10
12	B=3, D=6, Z=1.25	-	4.05	11
13	B=6, D=4.5, Z=2	-	5.25	12
14	B=3, D=3, Z=1	-	5.30	13
15	B=2, D=1.5, Z=1	-	7.78	14
16	B=2, D=2, Z=1.5	-	3.53	Lambs Creek
17	EW w/24"	6.38	3.37	16
18	DI w/24" in and out	8.11	4.24	17
19	DI	8.06	-	-
	24" out	-	4.49	18
	18" in	-	4.49	-
20	YD w/18" in and out	7.68	4.83	19
21	YD w/18" out	6.84	4.88	20
22	B=2, D=2, Z=1.5	-	5.46	21
23	B=2.5, D=2, Z=2	-	6.81	22
24	18"	-	6.46	23
25	18"	-	6.07	24
26	B=2, D=1, Z=2	-	7.61	23
27	24"	-	0.00	Lambs Creek
28	DI w/24" in and out	5.80	1.35	27
29	DI w/24" in and out	5.90	1.30	28
30	24"	-	1.47	29
31	15"	-	-	Bricked and Abandoned
32	15"	-	7.51	31
33	18"	-	4.68	103
34	18"	-	6.70	33
35	18"	-	6.88	34
36	YD w/18" in and out	-	6.92	35
37	YD w/18" in and out	-	6.99	36
38	18"	-	7.16	37
39	18"	-	6.81	38
40	18"	-	7.12	39
41	B=1, D=1, Z=1	-	-	Poquoson River
42	B=1, D=1, Z=1	-	-	41
43	18"	-	1.71	Poquoson River

TOPO SHEET NUMBER 4

NUMBER DESCRIPTION TOP INVERT DOWNSTREAM NUMBER
All pipes are RCP
unless otherwise noted

*Indicates proposed structures

44	DI w/18" in and out	6.73	2.03	43
45	DI	-	-	-
	18" out	6.73	2.11	42
	15" in	-	3.86	-
46	DI w/15" in and out	6.73	3.95	43
47	DI w/15" out	6.73	4.03	46
48	B=4, D=3.5, Z=1.7	-	-	Lambs Creek
49	B=3, D=2.5, Z=1	-	-	48
50	30"	-	-	49
51	30"	-	-	50
52	B=6, D=2.5, Z=1	-	-	51
53	B=3, D=2, Z=1.75	-	-	52
54	B=2.5, D=1.5, Z=1.5	-	-	53
55	B=1, D=.5, Z=3	-	7.79	54
56	B=1, D=.5, Z=3	-	8.50	54
57	B=4, D=2, Z=2	-	-	Lambs Creek
58	B=1.5, D=1, Z=.75	-	-	57
59	B=3, D=2, Z=.75	-	5.56	58
60	18"	-	6.65	59
61	18"	-	7.10	60
62	B=2, D=1.5, Z=1	-	8.62	61
63	B=2, D=2, Z=1.25	-	8.42	60
64	B=1, D=.5, Z=3	-	7.69	65
65	6"	-	6.89	66
66	6"	-	6.35	67
67	B=3, D=2, Z=.75	-	6.96	59
68	B=3, D=2, Z=.75	-	6.56	59
69	B=2, D=1.5, Z=1	-	8.00	61
70	12"	-	7.85	69
71	12"	-	8.05	70
72	B=1, D=.5, Z=2	-	-	Lambs Creek
*73	DI w/15" out	6.65	3.47	75
*74	YD w/15" out	6.00	2.82	75
*75	YD	-	-	-
	2-15" in	5.00	2.60	Poquoson River
	18" stub out	-	-	-
*76	DI w/15" out	6.51	3.71	77
*77	DI	-	-	-
	15" in	6.51	3.59	79
	14"x23" out	-	-	-
*78	DI w/14"x23" out	6.56	3.73	79
*79	DI	-	-	-
	2-14"x23" in	6.56	3.20	80
	19"x30" out	-	-	-
*80	ES 19"x30"	-	2.78	Poquoson River
*81	YD w/15" out	6.90	3.27	82
*82	YD w/15" in and out	6.90	3.12	83
*83	YD	-	-	-
	15" in	6.00	2.84	85
	14"x23" in	-	-	-
	19"x30" out	-	-	-

TOPO SHEET NUMBER 4

NUMBER DESCRIPTION TOP INVERT DOWNSTREAM NUMBER
All pipes are RCP
unless otherwise noted

*Indicates proposed structures

*84	YD w/14"x23" out	6.00	3.00	83
*85	YD	-	-	-
	19"x30" in and out	6.00	2.09	86
*86	DI	-	-	-
	19"x30" in and out	7.50	2.00	87
*87	DI	-	-	-
	19"x30" in	7.50	1.80	91
	22"x34" in	-	-	-
	27"x42" out	-	-	-
*88	DI w/14"x23" out	7.70	2.38	89
*89	DI	-	-	-
	14"x23" in	7.70	2.19	90
	19"x30" in	-	-	-
	19"x30" out	-	-	-
*90	DI	-	-	-
	19"x30" in	7.86	2.00	91
	15" in	-	-	-
	22"x34" out	-	-	-
*91	MH	-	-	-
	22"x34" in and out	7.80	1.89	87
*92	MH	-	-	-
	42"x27" in and out	7.70	1.76	93
*93	ES 42"x27"	-	1.61	3
94	DI w/24" out	-	-	95
95	DI w/24" in and out	-	-	96
96	Box 24" in and out	-	-	97
97	24"	-	-	Lambs Creek
98	DI w/15" out	-	-	99
99	DI w/15" in and out	-	-	100
100	15"	-	-	Lambs Creek
101	DI w/15" out	-	-	102
102	15"	-	-	Lambs Creek
103	B=2, D=1.4, Z=1.5	-	3.83	30

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	24"	-	-1.12	Lyons Creek
2	24"	-	-1.06	Lyons Creek
3	DI	-	-	-
	18" and 24" in	5.18	-0.80	112
	2-24" out	-	-	-
4	24"	-	1.00	3
5	18"	-	0.73	3
6	B=2, D=1.5, Z=2.67	-	1.64	4/5
7	B=3, D=2, Z=1.75	-	2.10	6
8	24"	-	1.78	7
9	24"	-	1.69	7
10	24" plugged	-	1.79	7
11	EW w/24" plugged	6.63	1.95	10
12	EW w/24"	6.63	1.94	9
13	EW w/24"	6.63	1.87	8
14	24"	-	3.62	130
15	24"	-	3.92	14
16	B=2, D=2, Z=1.5	-	4.33	15
17	B=2, D=2, Z=1.5	-	5.90	16
18	EW w/48"x76"	4.76	-0.57	Lyons Creek
19	EW w/48"x76"	5.06	-0.27	18
20	B=4, D=6, Z=2	-	0.65	19
21	B=4, D=6, Z=2	-	0.65	20
22	EW w/27"	7.24	3.99	21
23	DI	-	-	-
	19"x30" in	8.31	4.03	22
	12" in	-	-	-
	27" out	-	-	-
24	EW w/19"x30"	6.81	4.23	23
25	B=2, D=4.5, Z=2	-	4.24	24
26	DI w/12" in and out	7.80	4.28	23
27	DI w/12" out	7.80	4.36	26
28	EW w/27"	7.08	3.68	21
29	YD	-	-	-
	27" in	8.23	3.90	28
	27" out	-	3.81	-
30	YD	-	-	-
	27" in	8.23	4.40	29
	27" out	-	4.44	-
31	DI w/19"x30" in	8.31	5.66	30
	27" out	-	4.90	-
32	DI w/19"x30" in	8.35	5.82	31
	19"x30" out	-	5.58	-
33	EW w/19"x30"	8.75	6.11	32
34	B=2, D=1, Z=1	-	6.13	33
35	B=1, D=1, Z=11	-	7.34	33
36	EW w/24"	6.91	3.98	21

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
37	DI	-	-	-
	21" in	7.53	4.28	36
	24" out	-	4.36	-
38	DI	-	-	-
	21" in	7.60	4.34	37
	21" out	-	4.27	-
39	YD	-	-	-
	18" in	8.23	4.72	38
	21" out	-	4.48	-
40	DI	-	-	-
	15" in	7.73	4.97	39
	18" out	-	4.93	-
41	DI w/15" out	7.73	4.96	40
42	EW w/27"	7.41	4.14	21
43	DI	-	-	-
	27" in	8.03	4.66	42
	27" out	-	4.61	-
44	DI	-	-	-
	27" in	8.09	4.80	43
	27" out	-	4.74	-
45	YD	-	-	-
	24" in	8.23	5.33	44
	15" in	-	5.39	-
	27" out	-	4.97	-
46	EW w/24"	8.46	5.61	45
47	B=2, D=1, Z=1	-	7.54	46
48	B=1, D=1, Z=1	-	6.85	46
49	DI	-	-	-
	15" in	7.83	5.59	45
	15" out	-	5.65	-
50	DI w/15" out	7.83	5.66	49
51	EW w/21"	5.02	2.18	19
52	DI	-	-	-
	18" in	5.94	2.77	51
	21"	-	2.37	-
53	DI w/18" out	5.94	2.97	52
54	EW w/18"	4.23	1.22	21
55	DI w/18" in and out	5.33	1.80	54
56	DI w/15" in, 18" out	5.63	2.08	55
57	YD w/15" out	5.18	2.72	56
58	EW w/15"	3.98	0.99	19
59	DI	-	-	-
	15" in	6.08	2.78	58
	15" out	-	2.74	-
60	DI w/15" out	6.08	3.13	59
61	15" into 40"x76"	-	1.11	18
62	DI w/15" in and out	5.31	1.13	61
63	DI w/15" out	5.28	1.38	62
64	12" CP	-	0.13	Lyons Creek
65	YD w/12" in and out	3.73	1.50	64
66	15"	-	4.18	67

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
67	YD	-	-	-
	15" in	5.82	3.72	68
	15" out	-	3.75	-
68	YD	-	-	-
	15" in	5.90	3.71	69
	15" out	-	3.61	-
69	YD	-	-	-
	15" in	5.64	3.12	70
	15" out	-	2.66	-
70	YD	-	-	-
	15" in	5.79	2.59	71
	15" in	-	3.74	-
	15" out	-	2.44	-
71	YD	-	-	-
	15" in	4.82	2.32	9-208
	15" out	-	2.22	-
72	12"	-	4.59	73
73	YD w/12" in and out	6.34	4.74	74
74	YD	-	-	-
	12" in	6.02	4.32	70
	15" out	-	3.99	-
75	12"	-	5.38	76
76	12"	-	5.31	9-217
77	B=2, D=1.5, Z=1.33	-	8.80	17
78	B=2, D=1.5, Z=1.33	-	7.70	9-248
79	B=3, D=2, Z=2.25	-	1.00	Roberts Creek
80	B=2, D=5, Z=1	-	2.69	79
81	34"x53"	-	2.66	80
82	YD	-	-	-
	34"x53" in	6.89	2.73	81
	34"x53" out	-	2.49	-
83	YD	-	-	-
	34"x53" in	7.01	2.87	82
	24" in	-	2.97	-
	34"x53" out	-	2.90	-
84	34"x53"	-	2.82	83
85	B=2, D=5, Z=1.3	-	2.90	84
86	B=2, D=2.5, Z=0.4	-	4.01	85
87	36"	-	3.93	86
88	36"	-	3.71	87
89	B=2, D=3, Z=1	-	4.51	88
90	36"	-	3.81	89
91	36"	-	4.10	90
92	B=2, D=3, Z=1	-	4.55	91
93	B=3, D=2, Z=1.25	-	5.42	92
94	B=2.5, D=1, Z=1.25	-	6.05	93
95	15"	-	6.07	94
96	YD	-	-	-
	15" in	8.30	6.20	95
	15" out	-	6.15	-
97	15"	-	6.50	96
98	B=1, D=0.5, Z=2	-	6.96	97

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
99	B=2, D=0.5, Z=6	-	6.55	100
100	B=2, D=0.5, Z=6	-	6.03	This ditch does not drain
101	D=1, Z=3	-	6.68	100
102	YD	-	-	-
	24" in	8.22	3.86	83
	24" out	-	3.81	-
103	D=1, B=2.5, Z=1.3	-	3.97	132
104	D=1, B=1, Z=1	-	-	103
105	B=2, D=0.5, Z=0.5	-	-	103
106	ES w/18"	-	5.82	92
107	DI	-	-	-
	15" in	9.14	6.57	106
	15" in	-	6.46	-
	18" out	-	6.30	-
108	DI w/15" out	9.24	6.67	107
109	DI w/15" out	9.16	6.62	107
110	YD w/15" out	6.93	5.03	111
111	MH	-	-	-
	15" in	-	-	-
	18" out	8.64	4.70	112
112	DI w/18" in and out	8.04	4.46	113
113	DI	-	-	-
	18" in	-	-	-
	21" out	7.90	4.38	114
114	YD w/21" in and out	7.53	4.15	115
115	YD	-	-	-
	21" in	6.63	4.06	116
	24" out	-	-	-
116	DI	-	-	-
	24" in	7.33	3.18	117
	27" out	-	-	-
117	MH w/27" in and out	7.33	3.10	118
118	DI	-	-	-
	27" in	7.33	3.01	121
	30" out	-	-	-
119	YD w/18" in and out	6.73	3.71	121
120	YD w/18" out	6.33	4.13	119
121	MH	-	-	-
	18" in	-	-	135
	30" in	-	-	-
	36" out	-	-	-
122	B=2, D=3, Z=1.33	-	2.69	123
123	B=6, D=3, Z=2	-	1.55	124
124	30"	-	1.58	125
125	30"	-	1.12	126
126	B=10, D=3, Z=1	-	-0.13	127
127	B=15, D=3, Z=1	-	0.47	Roberts Creek
128	18"	-	4.63	129
129	18"	-	4.13	126
130	B=3, D=2, Z=2.25	-	2.20	11/12/13
131	12"	-	2.36	65
132	ES 24"	-	3.97	102

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
133	B=1, D=1, Z=1.5	-	7.47	134
134	B=1, D=1, Z=1.5	-	4.91	85
135	36"	-	2.69	122
136	15"	-	5.77	137
137	15"	-	5.38	138
138	12"	-	3.79	139
139	12"	-	3.84	140
140	B=1, D=2, Z=0.5	-	3.84	141
141	B=1, D=1.5, Z=1	-	1.50	79
142	12"	-	2.40	144
143	12"	-	2.35	142
144	D=1.8, Z=1.9	-	2.63	145
145	B=10, D=3.4, Z=1.5	-	-0.19	Lyons Creek
146	D=1.4, Z=2.8	-	2.69	147
147	D=1.2, Z=4	-	1.53	Roberts Creek
148	12"	-	3.02	143
149	12"	-	3.13	148
150	12"	-	3.83	149
151	12"	-	3.73	150
152	DI w/15" out	4.73	1.96	153
153	DI	-	-	-
	15" in	4.73	1.76	154
	18" out	-	-	-
154	EW w/18"	4.28	0.93	Roberts Creek
155	DI w/15" out	5.73	3.18	156
156	15"	-	3.07	Lyons Creek
157	DI w/15" out	5.23	2.23	158
158	15"	-	0.43	159
159	B=10, Z=2, Z=2.5	-	0.85	White House Cove
160	ES 15"	-	2.86	161
161	DI	-	-	-
	15" in	5.31	2.21	162
	18" out	-	-	-
162	DI w/18" in and out	5.31	2.02	163
163	ES 18"	-	1.47	White House Cove
164	DI w/15" out	4.84	2.09	165
165	DI	-	-	-
	15" in	4.73	1.93	166
	18" out	-	-	-
166	DI w/18" in and out	4.73	1.85	167
167	ES 18"	-	1.59	White House Cove
168	12"	-	2.75	169
169	12"	-	1.95	170/172
170	12"	-	1.59	171
171	12"	-	1.89	White House Cove
172	12"	-	1.73	173
173	12"	-	1.58	White House Cove
174	DI w/15" out	-	-	175
175	15"	-	-	Lyons Creek
176	DI w/18" out	-	-	177
177	18"	-	-	Lyons Creek
178	12"	-	-	180

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
179	15"	-	-	181
180	12"	-	-	182
181	15"	-	-	183
182	12"	-	-	184
183	15"	-	-	185
184	12"	-	-	Canal to Lyons Creek
185	15"	-	-	Canal to Lyons Creek
186	12"	-	-	187
187	12"	-	-	Canal to Lyons Creek
188	12"	-	-	189
189	12"	-	-	Canal to Lyons Creek
190	15"	-	-	191
191	15"	-	-	Lyons Creek
192	12"	-	-	193
193	12"	-	-	Lyons Creek
194	15"	-	-	195
195	15"	-	-	196
196	15"	-	-	197
197	15"	-	-	198
198	EW w/12"	-	-	199
199	12"	-	-	Canal to Lyons Creek
200	15"	-	-	196
201	15"	-	-	200
202	12"	-	-	203
203	12"	-	-	Canal to Lyons Creek
204	15"	-	-	205
205	15"	-	-	Canal to Lyons Creek
206	DI w/15" out	-	-	207
207	15"	-	-	White House Cove
208	12"	-	8.01	209
209	12"	-	7.24	78
210	YD w/15" out	7.64	3.69	211
211	DI w/15" in and out	8.56	3.33	212
212	DI w/15" in and out	8.60	3.22	214
213	YD w/18" out	7.83	2.85	214
214	MH	-	-	-
	15" in	8.16	2.42	4-89
	18" in	-	-	-
	19"x30" out	-	-	-
215	YD w/15" out	7.00	2.90	216
216	YD w/15" in and out	7.00	2.56	4-90
217	DI w/13"x17" CMP out	-	-	218
218	DI	-	-	-
	13"x17" CMP in	-	-	219
	15" out	-	-	-
219	15"	-	-	Roberts Creek
220	18"	-	-	221
221	18"	-	-	224
222	DI w/15" out	-	-	223
223	15"	-	-	224

TOPO SHEET NUMBER 5

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
224	18"	-	-	225
225	18"	-	-	Roberts Creek
226	ES 12"	-	-	227
227	DI	-	-	-
	12" in	-	-	228
	13"x17" CMP out	-	-	-
228	DI	-	-	-
	13"x17" CMP in	-	-	229
	18" out	-	-	-
229	ES 18"	-	-	White House Cove

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 6

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
1	15"	-	2.12	2
2	YD w/15" in and out	3.61	-	3
3	15"	-	1.04	6
4	18"	-	0.74	5
5	18"	-	0.74	6
6	24"	-	0.64	7
7	24"	-	-	Floyds Bay
8	DI w/15" out	4.85	2.29	9
9	DI	-	-	-
	15" in	4.85	2.17	10
	18" out	-	-	-
10	18"	-	1.33	Floyds Bay
11	DI w/15" out	5.00	2.78	12
12	ES 15"	-	2.56	Bennett Creek
13	DI w/18" out	4.83	2.53	14
14	18"	-	1.53	White House Cove
15	DI w/15" out	4.85	2.29	16
16	DI	-	-	-
	15" in	4.85	2.17	17
	18" out	-	-	-
17	18"	-	1.91	Bennett Creek
18	15"	-	-	19
19	15"	-	-	White House Cove
20	12"	-	-	21
21	12"	-	-	@ #19 enters White House Cove

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 8

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSIDE NUMBER
All pipes are RCP unless otherwise noted				
1	B=4.5, D=2, Z=1.1	-	1.68	103
2	B=4, D=3, Z=1	-	2.2-	1
3	B=1, D=2, Z=2	-	3.68	2
4	21"	-	3.69	3
5	YD	-	-	-
	21" in	5.74	3.75	4
	15" in	-	4.03	-
	21" out	-	3.70	-
6	15"	-	4.05	5
7	DI	-	-	-
	18" in	7.25	4.16	6
	21" out	-	-	-
8	MH	-	-	-
	15" in	7.50	4.36	7
	18" in and out	-	-	-
9	15"	-	4.38	8
10	EW w/18"	6.50	4.40	8
11	D=1, B=1.5, Z=1	-	4.41	10
12	EW w/15"	7.65	5.65	11
13	EW w/15"	8.34	6.34	12
14	EW w/18"	7.50	5.00	13
15	EW w/18"	8.50	6.50	14
16	ES 12"	-	7.16	17
17	ES 12"	-	7.10	15
18	DI w/12" out	8.87	6.50	19
19	DI w/12" in and out	8.81	5.97	20
20	EW w/12"	7.50	5.00	13
21	ES 15"	-	4.13	22
22	DI w/15" in and out	6.27	3.77	23
23	DI w/15" in and out	-	-	24
24	15"	-	2.76	2
25	24"	-	3.80	26
26	24"	-	3.87	27
27	D=1.4, Z=2.5	-	3.98	28
28	B=2, D=2, Z=1	-	-	1
29	36"	-	0.34	Lambs Creek
30	DI w/36" in and out	6.23	0.54	29
31	DI w/36" in and out	6.23	0.64	30
32	YD	-	-	-
	30" in	5.73	1.78	31
	36" out	-	1.28	31
33	YD	-	-	-
	15" in	6.23	2.17	32
	30" out	-	1.95	-
34	MH w/15" in and out	-	-	33
35	YD w/15" in and out	-	3.33	34
36	DI w/15" in and out	6.23	3.63	35
37	DI w/15" out	6.23	3.73	36
38	30"	-	-	33

TOPO SHEET NUMBER 8

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
39	YD	-	-	-
	15" in	-	-	38
	30" out	-	-	-
40	YD	-	-	39
41	YD	-	-	40
42	27"	-	-	41
43	YD w/18" in	7.23	-	41
44	18"	-	4.58	43
45	18"	-	4.80	44
46	18"	-	4.73	45
47	DI	-	-	40
48	DI	-	-	47
49	DI	-	-	48
50	YD w/18" in and out	7.22	-	49
51	YD	-	-	-
	15" in	6.48	4.24	50
	18" in and out	-	-	-
52	ES 15"	-	4.74	51
53	YD	-	-	-
	15" in	7.23	4.93	51
	18" in and out	-	4.68	-
54	ES 18"	-	4.70	53
55	DI w/15" in and out	7.93	5.26	53
56	DI w/15" out	7.93	5.33	55
57	DI w/15" in and out	6.73	3.53	39
58	DI w/15" out	6.73	3.73	57
59	ES 15"	-	5.55	60
60	YD	-	-	-
	15" in	7.23	5.41	61
	18" out	-	5.16	-
61	DI w/18" in and out	7.44	-	62
62	DI w/18" in and out	7.44	-	63
63	18"	-	4.57	33
64	ES 15"	-	5.25	65
65	YD	-	-	-
	2-15" in	-	5.04	67
	15" out	-	-	-
66	ES 15"	-	5.08	65
67	DI	-	-	-
	15" in	7.28	4.64	68
	15" out	-	4.39	-
68	DI	-	-	-
	15" in	7.28	4.31	69
	18" out	-	-	-
69	YD	-	-	-
	2-18" in	6.73	3.93	73
	24" out	-	-	-
70	ES 18"	-	3.98	69
71	B=1.5, D=3, Z=1.1	-	-	70
72	B=1, D=1.5, Z=1.7	-	-	71
73	ES 24"	-	3.53	74
74	B=3, D=5, Z=.6	-	-	75

TOPO SHEET NUMBER 8

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
75	B=2, D=6, Z=.8	-	-	76
76	ES 24"	-	2.00	77
77	MH w/24" in and out	7.20	1.93	78
78	ES 24"	-	1.40	Lambs Creek
79	ES 18"	-	1.93	Lambs Creek
80	DI w/18" in and out	5.05	2.05	79
81	DI w/18" out	5.05	2.20	80
82	-	-	-	83
83	24"	-	4.93	84
84	24"	-	4.65	85
85	D=2.75, Z=1	-	4.80	42
86	ES 15"	-	3.93	87
87	DI w/15" in and out	6.33	3.73	88
88	DI w/15" in and out	6.33	3.53	89
89	15"	-	3.13	Lambs Creek
90	DI w/15" out	6.18	3.46	91
91	DI w/15" in and out	6.18	3.38	92
92	DI w/15" in and out	6.28	3.24	93
93	ES 15"	-	2.91	Lambs Creek
94	DI w/15" out	6.18	3.58	95
95	DI w/15" in and out	6.18	3.38	96
96	DI w/15" in and out	6.24	3.24	97
97	ES 15"	-	2.73	Lambs Creek
98	DI w/15" out	6.73	3.73	99
99	15"	-	3.53	Lambs Creek
100	DI w/15" out	6.73	3.73	101
101	DI w/15" in and out	6.73	3.63	102
102	15"	-	3.53	Lambs Creek
103	B=9.5, D=3.9, Z=1.2	-	1.21	104
104	36"	-	1.28	105
105	36"	-	-0.08	Lambs Creek

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
1	DI w/18" in and out	6.82	3.98	-
2	ES-1-#1 18"	-	4.03	1
3	YD w/18" in and out	6.21	4.30	4
4	18"	-	4.90	Sheet 14-267
5	YD	6.31	-	-
	18"	-	-	-
	24" out	-	4.37	3
6	18"	-	4.62	5
7	B=3, D=4, Z=.17	-	1.38	9
8	12"	-	4.32	7
9	B=3.5, D=4, Z=.71	-	1.32	10
10	24"	-	-	11
11	24"	-	-	12
12	B=5, D=3, Z=.83	-	1.28	243
13	DI w/24" in and out	6.23	1.97	256
14	12"	-	4.11	15
15	12"	-	4.02	18
16	12"	-	3.99	17
17	12"	-	3.99	18
18	B=2, D=1.2, Z=2.5±	-	4.13	19
19	B=2, D=1, Z=1.5	-	3.53	20
20	B=3, D=2.4, Z=1.45±	-	2.93	21
21	B=4, D=4, Z=.75	-	2.40	22
22	EW w/24"	-	2.26	23
23	YD	4.90	1.96	24
	2-24" in	-	-	-
	12" in	-	-	-
	36" CMP out	-	-	-
24	YD w/36" CMP in and out	-	-	25
25	YD w/36" CMP in and out	-	-	28
26	EW-1 w/ 30"	-	6.13	101
27	EW-1 w/24"	-	6.70	102
28	EW w/36" CMP	-	-	White House Cove
29	EW w/24"	-	2.76	23
30	EW w/24"	-	2.83	29
31	24"	-	2.69	30
32	18"	-	2.78	31
33	YD	-	5.38	-
	12" in	-	3.61	-
	18" in and out	-	3.35	32
34	YD w/18" in and out	5.36	3.47	-
		-	3.65	33
35	YD w/12" out	5.58	4.28	33
36	18"	-	-	34
37	24"	-	-	23
38	12"	-	3.07	22
39	12"	-	4.72	41
40	12"	-	4.08	41

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
41	MH	6.15	-	-
	2-12" in	-	4.09	-
		-	3.97	-
	12" out	-	3.85	38
42	12" CP	-	4.46	19
43	12"	-	6.63	44
44	12"	-	6.65	6-428
45	15"	-	6.72	46
46	15"	-	6.63	6-248
47	B=2, D=1.5, Z=.33	-	-	43 and 45
48	12" CP	-	-	47
49	12" CP	-	-	50
50	12" CP	-	-	51
51	B=3, D=3, Z=.17	-	-	57
52	EW w/24"	-	1.77	53
53	YD w/24" in and out	4.80	1.84	54
54	YD w/24" in and out	4.29	1.84	56
55	12"	-	-	54
56	24"	-	-	Canal to White House Cove
57	B=3, D=2, Z=.25	-	-	52
58	DI w/34"x22" in and out	-	6.27	278
59	DI w/34"x22" in	-	5.97	
	out	-	5.77	62
60	DI w/34"x22", 18" in	-	-	
	34"x22" out	-	6.10	61
61	34"x22"	-	5.93	65
62	MH	-	-	-
	34"x22" in and out	9.80	5.77	63
	15" in	-	-	-
63	34"x22"	-	5.63	246
64	42"x27"	-	5.30	246
65	42"x27"	-	5.70	64
66	24" CP	-	-	246
67	24" CP	-	-	246
68	24" CP	-	-	69
69	B=3, D=5, Z=1.2	-	-	70
70	B=5, D=5, Z=1.3	-	-	71
71	B=3.5, D=5, Z=1.25	-	-	72
72	B=3, D=8, Z=.75	-	-	73
73	B=4, D=9, Z=.89	-	-	75
74	12" CP	-	-	75
75	B=4, D=6, Z=1.58	-	4.18	76
76	B=2, D=5, Z=2	-	3.98	77
77	EW w/42"	7.53	3.33	78
78	EW w/42"	7.46	3.26	79
79	B=2, D=6, Z=1.75	-	3.23	80
80	B=3, D=9, Z=.83	-	-	82
81	void	-	-	-
82	B=3, D=5, Z=1.6	-	-	83
83	ES 65"x40" CMP	-	2.13	84
84	ES 65"x40" CMP	-	2.04	86
85	ES-1 12"	-	1.89	86

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
86	B=8, D=2.61, Z=1.5±	-	-	87
87	EW w/42"x30"	4.21	-0.06	88
88	EW w/42"x30"	4.16	-0.10	White House Cove
89	ES 24"	-	2.07	86
90	DI	-	-	-
	24" in and out	6.98	2.25	89
	12" in	-	3.60	-
91	DI w/12" out	6.98	3.73	90
92	MH w/24" in and out	7.83	2.96	90
93	MH	-	-	-
	12" in (stub)	8.33	6.23	92
	24" in and out	-	3.15	92
94	EW w/24"	-	3.25	93
95	B=3, D=2.67±, Z=1.69±	-	-	86
96	18"	-	2.53	95
97	18"	-	3.28	96
98	B=4, D=2, Z=1 (PG-5)	-	-	79
99	JB w/30" twin	-	-	-
	in and out	-	2.81	98
100	Double JB	-	-	-
	27" and 30" in	-	3.03	99
	21" in	-	4.81	-
	30" out	-	3.03	-
101	JB w/30" in and out	-	3.67	100
102	JB	-	-	-
	24" in	-	4.65	100
	27" out	-	4.54	100
103	JB	-	-	-
	24" in	-	4.97	102
	24" out	-	4.92	-
104	EW w/24"	-	5.05	103
105	EW w/15"	7.20	4.20	75
106	MH w/15"	9.43	4.63	105
107	DI w/15"	7.10	4.96	106
108	DI w/15"	8.71	5.44	107
109	EW w/15"	-	5.73	108
110	12"	-	7.66	111
111	YD	-	-	-
	12" in	-	5.98	112
	18" out	-	-	-
112	MH w/2-18" in, 18" out	9.01	5.49	114
113	ES-1 18"	-	5.59	112
114	DI	-	-	-
	12" and 18" in	8.03	5.24	116
	18" out	-	-	-
115	DI w/12" out	7.78	5.53	114
116	DI w/18" in and out	7.96	5.07	117
117	MH w/2-18" in and out	8.18	4.99	249
118	DI w/12" in and out	7.93	5.66	272
119	DI w/12" out	7.73	5.78	118
120	DI w/12" out	8.23	6.05	253
121	DI w/12" out	8.48	6.40	252
122	DI w/15" out	8.05	5.32	123

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSSTREAM NUMBER
All pipes are RCP unless otherwise noted				
123	DI	-	-	-
	15" in	8.63	5.11	124
	18" out	-	9.86	-
124	EW-1 18"	7.23	4.73	109
125	DI	-	-	-
	2-12" in	8.84	5.23	126
	15" out	-	4.98	-
126	EW-1 15"	7.10	4.85	109
127	DI w/12" out	7.85	5.16	128
128	DI	-	-	-
	12" in	7.93	5.00	130
	18" out	-	4.50	0
129	DI w/21" out	7.65	4.23	130
130	DI	-	-	-
	18" in	7.93	4.25	131
	21" in	-	4.01	-
	27" out	-	3.50	-
131	YD-1 w/27" in and out	6.85	3.37	132
132	EW-1 27"	7.05	3.29	109
133	DI w/2-21" out	8.80	5.53	134
134	DI w/2-21" in and out	8.80	5.19	135
135	EW-1 21"	-	4.58	104
136	YD-1 15" out	8.57	6.30	137
137	DI	-	-	-
	15" in	8.53	5.89	138
	14"x23" out	-	-	-
138	DI	-	-	-
	14"x23" in	8.53	5.73	139
	18" out	-	-	-
139	EW-1 18"	-	5.26	104
140	18"	-	6.57	141
141	18"	-	6.50	104
142	YD-1 15" out	8.82	7.00	143
143	DI	-	-	-
	2-15" in	8.93	6.35	144
	14"x23" out	-	-	-
144	DI	-	-	-
	14"x23" in	8.93	6.23	145
	18" out	-	-	-
145	EW-1 18"	-	5.05	104
146	15"	-	5.80	147
147	15"	-	5.70	133
148	14"x23" CP	-	6.39	133
149	EW 24"	-	3.54	94
150	DI w/14"x23" out	8.41	6.51	148
151	DI	-	-	-
	14"x23" in and out	9.11	6.65	133
152	DI	-	-	-
	15" in	9.11	6.76	151
	14"x23" out	-	-	-
153	DI w/15" out	8.82	6.88	152
154	DI w/12" out	6.98	4.70	155

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
155	DI w/12" in, 15" out	7.01	4.71	156
156	EW-1 15"	-	4.44	165
157	DI w/12" out	6.93	4.63	158
158	EW-1 12"	-	4.53	165
159	DI w/12" out	6.85	4.53	160
160	EW-1 12"	-	4.44	165
161	DI w/12" out	7.09	4.38	162
162	EW-1 12"	-	4.26	165
163	DI	-	-	-
	12" and 21" in	7.53	3.76	149
	24" out	-	-	-
164	DI w/12" out	7.48	3.84	163
165	EW-2 21"	-	3.89	163
166	ES-1 12"	-	6.23	167
167	DI	-	-	-
	12" in	7.45	5.23	168
	15" out	-	4.40	-
168	EW-1 15"	-	4.30	165
169	YD	-	-	-
	12" in	4.25	1.21	171
	12" in	-	1.76	-
	24" out	-	1.20	-
170	YD	-	-	-
	12" in	4.37	1.47	169
	12" out	-	1.46	-
171	24"	-	1.07	White House Cove
172	YD	-	-	-
	12" in	4.31	1.82	170
	12" out	-	1.77	-
173	EW 12"	-	1.59	172
174	EW w/twin 18"	-	1.79	173
175	EW w/twin 18"	-	2.04	Roadside Ditch to White House Cove
176	JB w/4-18" in and out	4.95	2.38	175/174
177	18" CP	-	2.88	176
178	B=3.5, D=4, Z=.56	-	-	242
179	B=4, D=4, Z=.63	-	-	178
180	B=3, D=4, Z=.5	-	-	179
181	B=4, D=5, Z=.4	-	-	180
182	24" CP	-	-	181
183	B=4, D=3.5, Z=.57	-	-	182
184	B=3, D=3.5, Z=.57	-	-	183
185	18"	-	2.80	184
186	18"	-	3.33	185
187	42"x27"	-	3.73	186
188	DI w/30" in	7.23	3.83	187
	42"x27" out	-	-	-
189	ES-1 30"	-	4.19	188
190	D=3, B=2, Z=2	-	4.61	189
191	PG-5 D=1, W=2, Z=1	-	5.44	190
192	EW w/twin 18"	-	5.45	191
193	EW w/twin 18"	-	5.63	192
194	DI w/2-12" out	7.03	4.48	195
195	DI w/2-12" in and out	7.03	4.34	281
196	2-12"	-	4.06	184
197	B=2, D=3, Z=.17	-	-	190

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
198	Earth Swale	-	-	197
199	Earth Swale	-	-	198
200	B=2.5, D=1.5, Z=.5	-	6.03	190
201	1.5' Paved Swale	-	-	200
202	YD w/12" out	8.39	6.30	203
203	YD	9.04	6.40	290
	8" in	-	6.54	-
	15" in	-	6.54	-
	12" out	-	6.33	-
204	15"	-	-	203
205	12"	-	6.00	5-17
206	DI w/12" out	8.90	6.38	205
207	B=2, D=2, Z=1.75	-	2.05	5-159
208	YD	-	-	-
	24" in	4.46	1.64	207
	15" in	-	1.81	-
209	ES 21"	-	2.62	82
210	24"	-	1.75	208
211	DI w/15" out	5.34	2.38	222
212	void	-	-	-
213	B=4, D=2, Z=1	-	2.62	210
214	B=4, D=2, Z=1	-	3.54	213
215	B=3, D=3, Z=.58	-	3.66	214
216	B=2.5, D=2.5, Z=.9	-	4.18	215
217	B=1.5, D=3, Z=.75	-	4.66	216
218	DI w/12" out	5.45	3.01	219
219	DI w/12" in, 15" out	5.45	2.93	220
220	ES-1 15"	-	2.71	213
221	ES 18"	-	5.02	117
222	15"	-	-	210
223	12"	-	6.45	202
224	12"	-	6.61	223
225	12"	-	6.73	226
226	12"	-	6.47	193
227	DI w/15" in and out	8.95	6.16	193
228	DI w/15" out	9.09	6.36	227
229	DI w/15" out	8.91	6.26	230
230	DI w/15" in and out	8.87	6.10	190
231	DI w/12" out	5.53	2.23	232
232	DI w/12" in and out	5.77	2.15	85
233	DI w/12" in and out	5.91	3.58	86
234	DI w/12" out	5.91	3.71	233
235	DI	-	-	-
	2-12" in	5.70	2.84	209
	21" out	-	-	-
236	DI	-	-	-
	12" in	5.73	3.45	235
	2-12" out	-	-	-
237	YD w/12" in and out	5.29	3.56	236
238	YD w/12" in and out	5.43	3.79	237
239	DI w/12" in and out	7.52	4.17	238
240	DI w/12" in and out	6.53	4.53	239

TOPO SHEET NUMBER 9

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
	All pipes are RCP unless otherwise noted			
241	YD w/12" out	6.68	4.96	240
242	18"	-	2.24	176
243	B=4, D=4, Z=1.13	-	-	10-6
244	12"	-	3.95	16/14
245	12"	-	3.91	244
246	B=5, D=4, Z=1.38	-	-	69
247	18"	-	5.43	5-17
248	18"	-	5.55	247
249	18"	-	5.35	98
250	YD-1 15" out	8.27	6.85	143
251	12"	-	4.53	8
252	12"	-	6.33	221
253	12"	-	5.93	221
254	12"	-	4.38	42
255	DI	-	-	-
	18" in	6.23	2.33	13
	24" out	-	2.09	-
256	EW-1 24"	-	1.73	10-6
257	DI w/18" in and out	6.23	2.35	255
258	DI w/18" in and out	6.23	2.54	257
259	DI w/18" in and out	6.23	2.56	258
260	DI w/18" in and out	6.23	2.75	259
261	DI w/18" in and out	6.23	2.77	260
262	DI	-	-	-
	15" in	6.23	3.18	261
	18" out	-	2.96	-
263	DI w/15" in and out	6.23	3.60	262
264	DI w/15" in and out	6.23	3.68	263
265	DI w/15" out	6.73	3.91	264
266	18"	-	2.13	7
267	DI w/18" in and out	-	-	266
268	18"	-	2.73	267
269	void			
270	void			
271	ES-1 15"	-	4.00	7
272	12"	-	5.54	221
273	YD w/12" out	6.25	4.52	14-338
274	YD w/12" out	6.25	3.82	15-181
275	ES-1 15"	-	4.16	271
276	DI w/15" out	8.40	6.00	62
277	DI w/18" out	8.30	6.20	60
278	DI w/15" out	8.40	6.70	58
279	15"	-	6.73	280
280	15"	-	6.51	193
281	DI w/18" out	-	-	182
282	DI w/18" out	-	-	283
283	18"	-	-	177
284	12"	-	-	Canal
285	12"	-	-	284
286	12"	-	-	287
287	12"	-	-	288
288	15"	-	-	289
289	15"	-	-	Canal to White House Cove
290	12"	-	7.95	5-17

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 10

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
1	B=8, D=3.5, Z=.86	-	-	15-106
2	B=6, D=3, Z=.83	-	-	1
3	ES	-	-	2
4	DI w/12" out	6.23	3.58	3
5	YD	-	-	3
6	EW	-	-	5
7	DI w/15" out	6.23	3.23	8
8	DI	-	-	-
	15" in	6.23	2.98	9
	18" out	-	2.73	-
9	DI w/18" in and out	6.23	2.71	10
10	DI w/18" in and out	6.23	2.52	11
11	DI w/18" in and out	6.23	2.50	9-255
12	B=3, D=3.5, Z=1.5	-	-	2
13	12"	-	2.55±	12
14	DI w/12" out	6.41	2.58	13
15	ES 18"	-	2.90	12
16	DI w/18" in and out	7.18	2.95	15
17	DI w/18" in and out	6.85	3.09	16
18	DI	-	-	-
	12" in	6.68	3.16	17
	18" in and out	-	-	-
19	DI	-	-	-
	15" in	6.75	3.29	18
	18" out	-	-	-
20	DI	-	-	-
	2-12" in	6.75	3.30	19
	15" out	-	-	-
21	DI w/12" in and out	7.13	3.56	20
22	DI w/12" out	7.13	3.57	21
23	DI w/12" out	7.80	3.45	20
24	DI w/12" out	7.15	3.44	18
25	ES 18"	-	3.26	12
26	YD	-	-	-
	12" in	6.00	3.51	25
	18" out	-	-	-
27	DI w/12" out	7.18	3.70	26
28	B=3.5, D=5, Z=1	-	-	2
29	B=3, D=4, Z=1.25	-	-	28
30	B=1.5, D=1, Z=1.75	-	-	29
31	B=.5, D=1.5, Z=.83	-	4.10	30
32	B=2, D=5, Z=1.2	-	-	12
33	B=2, D=3, Z=2	-	-	32
34	15"	-	-	33
35	YD w/15" in and out	-	-	34
36	15"	-	-	35
37	B=1.5, D=3.5, Z=1.6	-	-	36
38	12"	-	5.38	39

TOPO SHEET NUMBER 10

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
39	12"	-	5.03	73
40	15"	-	3.29	41
41	15"	-	3.38	73
42	B=3, D=3.5, Z=1	-	-	15-196
43	B=2, D=2, Z=1	-	-	42
44	B=2, D=1 Z=1	-	-	43
45	12"	-	4.47	46
46	12"	-	4.35	47
47	B=2.5, D=3.5, Z=1.14	-	-	48
48	36"	-	1.42	49
49	EW w/36"	-	1.60	58
50	EW w/18"	-	3.83	51
51	EW w/18"	-	3.24	58
52	12"	-	-	47
53	YD w/12" out	5.88	4.21	52
54	YD w/18" out	5.62	3.71	55
55	18"	-	2.65	56
56	18"	-	3.19	57
57	18"	-	2.11	58
58	B=2, D=3, Z=1.83	-	-	59
59	B=2, D=3, Z=1	-	-	60
60	B=5, D=3, Z=1.16	-	-	61
61	B=13, D=2, Z=3	-	-	Floyds Bay
62	12"	-	3.95	63
63	YD w/12" in and out	5.14	2.89	64
64	12"	-	2.96	65
65	12"	-	3.17	66
66	12"	-	3.49	67
67	18"	-	2.76	68
68	DI w/18" in and out	4.63	2.60	69
69	18"	-	-	74
70	12"	-	-	71
71	DI w/12" in and out	5.16	-	72
72	End pipe	-	-	73
73	18"	-	2.86	162
74	B=2, D=4, Z=1	-	-	75
75	30"	-	-	76
76	YD w/30" in and out	-	-	77
77	YD w/30" in and out	-	-	78
78	ES 30"	-	-	79
79	B=7, D=2, Z=3.25	-	-	Floyds Bay
80	EW w/18"	-	3.66	75
81	EW w/18"	-	4.24	80
82	18"	-	3.97	83
83	18"	-	3.51	Ditch to Floyds Bay
84	12"	-	-	Ditch to Floyds Bay
85	12"	-	4.49	84
86	EW w/12"	-	4.50	85
87	EW w/12"	-	4.43	86
88	EW w/18"	-	3.98	89
89	EW w/18"	-	3.90	unknown
90	EW w/12"	-	3.95	91

TOPO SHEET NUMBER 10

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
91	EW w/12"	-	3.90	92
92	15"	-	-	93
93	15"	-	-	100
94	EW w/12"	-	4.35	195
95	EW w/12"	-	4.02	100
96	12"	-	-	97
97	YD w/12" in and out	-	-	99
98	12"	-	-	97
99	12"	-	-	100
100	B=3, D=3.5, Z=3	-	-	101
101	18"	-	0.70	102
102	18"	-	0.18	103
103	30"	-	-	104
104	30"	-	-	Floyds Bay
105	DI w/15" out	5.50	2.87	106
106	DI	-	-	-
	15" in	5.50	2.79	107
	18" out	-	-	-
107	DI	-	-	-
	15" and 18" in	5.25	2.31	108
	24" out	-	-	-
108	YD	-	-	-
	18" and 24" in	5.15	2.15	109
	27" out	-	-	-
109	DI	-	-	-
	27" in	5.22	1.95	110
	22"x34" out	-	-	-
110	DI	-	-	-
	22"x34" in	5.26	1.86	111
	30" out	-	-	-
111	YD w/30" in and out	5.03	1.67	112
112	EW w/30"	5.15	1.65	113
113	18"	-	1.20	114
114	18"	-	1.17	101
115	DI w/15" out	5.23	2.63	107
116	YD w/18" in and out	5.23	2.61	108
117	YD w/18" out	5.48	3.19	116
118	18"	-	0.57	119
119	18"	-	0.08	103
120	18"	-	-	121
121	18"	-	-	103
122	End pipe	-	-	123
123	DI w/15" in	-	-	127
124	15"	-	1.94	123
125	18"	-	2.06	124
126	18"	-	2.13	125
127	End pipe	-	1.50	128
128	End pipe	-	-	129
129	YD	-	-	unknown
130	EW w/18"	-	3.57	132
131	EW w/12"	-	4.01	132
132	EW w/12" and 18"	-	3.12	140

TOPO SHEET NUMBER 10

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
133	B=2.5, D=1.5, Z=1.5	-	-	134
134	B=3, D=1.5, Z=1.33	-	-	135
135	B=3, D=1, Z=3	-	-	136
136	B=2, D=1, Z=2.5	-	-	15-26
137	18"	-	-	15-214
138	DI w/18" in and out	4.78	-	139
139	EW w/18"	-	1.55	140
140	B=5, D=2.5, Z=1.2	-	-	Topping Creek
141	18"	-	1.07	Bennett Creek
142	18"	-	1.44	141
143	EW w/12"	-	4.21	144
144	EW w/12"	-	3.76	145
145	15"	-	-	146
146	15"	-	-	142
147	15"	-	-	148
148	15"	-	-	149
149	B=1, D=1.5, Z=1.7	-	-	15-84
150	End pipe	-	-	151
151	End pipe	-	-	Bennett Creek
152	15"	-	-	153
153	DI	-	-	-
	15" and 18" in	4.28	1.28	156
	24" out	-	-	-
154	ES 18"	-	1.50	153
155	B=3, D=2, Z=1	-	-	154
156	DI w/24" in, 30" out	3.51	0.61	157
157	EW w/30"	-	0.50	Bennett Creek
158	ES 15"	-	2.00	159
159	DI	-	-	-
	15" in	3.74	0.74	161
	18" in	-	-	-
	24" out	-	-	-
160	ES 18"	-	1.50	159
161	DI w/24" in, 30" out	3.51	0.61	162
162	EW w/30"	-	0.50	Bennett Creek
163	18"	-	2.13	75
164	YD w/12" out	6.25	3.68	165
165	YD w/12" in and out	6.25	3.41	15-179
166	12"	-	-	167
167	12"	-	-	168
168	B=3, D=1, Z=1	-	-	169
169	B=2, D=1.5, Z=1	-	-	170
170	12"	-	-	171
171	12"	-	-	Bennett Creek
172	B=3, D=1, Z=1.5	-	-	169
173	18"	-	-	174
174	18"	-	-	Bennett Creek
175	B=8, D=2, Z=2	-	-	180
176	YD	-	-	-
	12" out	3.81	1.85	181
	12" in	-	1.65	-
	18" in	-	1.65	-
	24" out	-	1.35	-

TOPO SHEET NUMBER 10

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
	All pipes are RCP unless otherwise noted			
177	B=12, D=0.5, Z=4	-	-	Floyds Bay
178	12"	-	4.98	176
179	12"	-	6.46	176
180	18"	-	7.10	176
181	24"	-	7.92	177
182	18"	-	1.35	Bennett Creek
183	18"	-	1.46	182
184	15"	-	2.47	185
185	15"	-	2.02	Bennett Creek

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 11

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	B=4, D=2, Z=2	-	-	2
2	EW w/27"x42"	3.59	0.34	3
3	DI	-	-	-
	27"x42" in and out	4.07	0.07	4
4	DI	-	-	-
	27"x42" in	3.95	-0.05	5
	27" in	-	-	-
	29"x45" out	-	-	-
5	DI	-	-	-
	29"x45" out	3.31	-0.16	6
	12" in	-	1.26	-
	15" in	-	1.01	-
6	DI	-	-	-
	29"x45" in and out	2.98	-0.49	7
7	MH	-	-	-
	29"x45" in and out	3.90	-0.40	8
8	EW w/29"x45"	2.45	-0.97	9
9	B=4, Z=2	-	-	Easton Cove
10	EW w/18"	3.69	0.44	11
11	YD	-	-	-
	18" in	3.73	0.41	12
	27" out	-	-	-
12	DI w/27" in and out	4.23	0.17	4
13	15"	-	1.73	5
14	12"	-	1.73	5
15	24"	-	-0.14	16
16	24"	-	-0.17	Canal to Bennetts Creek
17	EW w/15"	-	1.71	Canal to Bennetts Creek
18	EW w/15"	-	1.65	Canal to Bennetts Creek
19	18"	-	0.35	20
20	18"	-	0.84	Canal to Easton Cove
21	EW w/12"	-	1.30	17
22	EW w/12"	-	1.89	21
23	EW w/12"	-	-	17
24	EW w/12"	-	-	23
25	D=1.2, Z=2	-	2.90	15
26	B=6, D=2, Z=1.25	-	-	Ditch to Easton Cove
27	15"	-	-	26
28	15"	-	-	27
29	B=2.5, D=2, Z=1.38	-	-	Big Salt Marsh
30	15"	-	-	29
31	15"	-	-	30
32	B=2.5, D=1.5, Z=1.5	-	-	Big Salt Marsh
33	15"	-	-	32
34	15"	-	-	33
35	15"	-	-	36
36	15"	-	-	Bennetts Creek

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 13

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	B=8, D=4, Z=1.75	-	5.03	2/3
2	36" CMP	-	4.69	14-13
3	36" CMP	-	4.44	14-13
4	B=4, D=3, Z=2	-	-	14-22/23/24
5	20" CMP	-	4.64	6
6	20" CMP	-	4.28	7
7	EW w/15" and 18" CMP	-	-	8
8	EW w/15" and 18" CMP	-	-	Lambs Creek
9	15"	-	4.83	10
10	15"	-	5.22	8
11	18"	-	5.66	12
12	18"	-	5.51	8

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
1	3-6'x8' Box Culvert	-	-1.77	Oxford Run
2	3-6'x8' Box Culvert	-	-1.71	1
3	B=4, D=5.33, Z=1.97	-	1.11	2
4	D=6.2, Z=2.3	-	-0.94	3
5	D=7.5, Z=1.8	-	-0.67	4
6	D=8.45, Z=1.6	-	-0.69	5
7	D=9.7, Z=1.6	-	-0.59	6
8	36"	-	2.68	7
9	36"	-	2.63	7
10	36"	-	3.16	8
11	36"	-	3.14	9
12	D=4.3, Z=3	-	3.97	10 and 11
13	D=6.5, Z=2.3	-	2.48	12
14	D=9.35, Z=2	-	-0.13	7
15	D=8.65, Z=2	-	-0.47	14
16	D=6.6, Z=1.87	-	0.93	15
17	D=5.45, Z=2.4	-	1.48	16
18	D=5.25, Z=2.4	-	1.20	17
19	36" (EW)	6.62	1.71	18
20	36" (EW)	6.62	2.68	18
21	36" (EW)	6.62	2.74	18
22	36" (EW)	6.47	1.89	19
23	36" (EW)	6.47	2.51	20
24	36" (EW)	6.47	2.61	21
25	30"	-	2.02	1
26	DI w/30" in and out	-	2.21	25
27	DI w/30" in and out	-	2.48	26
28	DI w/15" out	8.00	5.00	29
29	MH	9.40	2.93	-
	15" and 27" in	-	-	-
	30" out	-	-	27
30	DI	-	-	-
	24" in	-	3.28	-
	27" out	-	-	29
31	DI w/15" out	9.00	6.58	30
32	DI w/15" out	8.20	5.80	33
33	DI	-	-	-
	15" and 24" in	-	3.66	-
	24" out	-	-	30
34	DI w/15" out	8.30	5.88	33
35	YD w/15" out	8.42	5.09	33
36	MH	-	-	-
	15" and 24" in	10.40	4.14	33
	24" out	-	-	-
37	DI w/15" in and out	9.00	5.37	36
38	DI w/15" out	9.00	6.00	37
39	MH	-	-	-
	15" and 21" in	10.00	4.23	36
	24" out	-	-	-

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
40	DI w/15" out	9.00	6.00	39
41	DI w/15" out	9.00	6.00	39
42	DI w/15" in and out	-	5.08	39
43	DI	-	-	-
	15" and 21" in	-	4.29	39
	21" out	-	-	-
44	DI w/15" out	9.60	6.00	43
45	DI w/15" out	9.20	6.20	46
46	MH	-	-	-
	15" and 21" in	10.60	4.64	43
	21" out	-	-	-
47	DI w/15" out	9.20	6.00	48
48	DI	-	-	-
	18" in	-	4.79	46
	21" out	-	-	-
49	DI w/15" out	9.20	6.20	48
50	DI w/15" out	9.30	6.00	51
51	DI	-	-	-
	2-15" in	-	5.42	48
	18" out	-	-	-
52	DI w/15" out	8.40	5.66	53
53	DI	-	-	-
	2-15" in	-	5.53	51
	15" out	-	-	-
54	DI w/15" out	7.90	5.90	302
55	DI w/15" in and out	-	5.83	302
56	DI w/15" in and out	8.70	5.87	55
57	DI w/15" in and out	8.60	5.94	56
58	DI w/15" out	8.50	6.08	57
59	15"	-	5.73	61
60	ES 18"	-	5.31	61
61	DI	-	-	-
	15" and 18" in	-	5.26	62
	24" out	-	-	-
62	MH	-	-	-
	15" and 24" in	9.00	5.00	64
	24" out	-	-	-
63	DI w/15" out	8.70	6.30	64
64	MH	-	-	-
	15" and 24" in	9.40	-	-
	24" out	-	4.60	66
65	15"	-	2.52	341
66	DI w/24" in and out	-	5.20	67
67	DI w/24" in and out	-	5.01	69
68	DI w/15" out	8.80	5.80	69
69	JB	-	-	-
	2-24" and 15" in	-	-	-
	2-24" out	-	3.78	80
70	MH w/24" in and out	-	4.08	69
71	MH	-	-	-
	18" in	7.38	5.05	70
	24" out	-	4.56	-

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
72	DI w/18" out	8.23	5.25	71
73	DI w/18" out	8.48	5.33	74
74	DI w/18" in and out	8.13	4.63	75
75	YD	-	-	-
	18" and 12" in	7.28	-	-
	27" out	-	4.03	78
76	YD w/12" out	8.09	5.96	77
77	YD w/12" in and out	7.87	5.77	75
78	DI w/27" in and out	-	3.56	82
79	EW 42"	-	1.12	18
80	JB	-	-	-
	2-24" in	-	3.63	79
	27" in	-	-	-
	36" in	-	2.54	-
	42" out	-	-	-
81	JB 36" in and out	9.70	3.60	80
82	MH	-	-	-
	30" in	9.50	3.78	81
	36" out	-	-	-
83	DI w/30" in and out	-	4.57	82
84	DI w/15" out	8.40	5.60	83
85	DI w/15" out	8.00	5.58	86
86	DI w/15" in and out	8.20	5.34	87
87	DI	-	-	-
	27" in	-	4.82	83
	30" out	-	-	-
88	DI w/15" out	-	5.66	87
89	DI w/15" out	-	5.66	90
90	MH	-	-	-
	15" and 27" in	9.80	5.06	87
	27" out	-	-	-
91	DI w/21" out	-	5.35	92
92	DI	-	-	-
	21" in	-	5.34	90
	27" out	-	-	-
93	DI w/27" in and out	-	4.18	80
94	DI w/15" out	7.40	4.98	95
95	DI	-	-	-
	15" and 24" in	-	-	-
	27" out	-	4.46	93
96	ES 15"	-	5.77	99
97	YD w/15" out	8.4	5.90	98
98	YD w/15" in and out	8.40	5.71	99
99	DI	-	-	-
	2-15" in	8.50	5.51	101
	18" out	-	5.26	-
100	YD w/15" out	8.40	5.38	101
101	MH	9.15	-	-
	15" in	-	5.28	102
	18" in	-	5.03	-
	18" out	-	-	-
102	DI	-	-	-
	15" and 18" In	-	4.78	95
	24" out	-	-	-

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
103	DI w/15" out	8.80	5.60	104
104	DI w/15" in and out	-	5.40	102
105	D=3.4, B=2, Z=2	-	3.65	106
106	EW w/2-24"	-	3.62	107
107	EW w/2-24"	6.47	3.47	119
108	YD w/15" out	8.40	5.72	109
109	YD	-	-	-
	15" in	8.40	5.37	111
	18" out	-	5.12	-
110	YD w/15" out	8.40	5.67	109
111	MH w/18" in and out	9.50	4.92	113
112	YD w/15" out	7.29	4.70	113
113	MH	-	-	-
	15" and 18" in	8.00	4.62	115
	24" out	-	-	-
114	YD	-	-	-
	29"x45" in	-	4.96	115
	15" in	-	6.25	-
	29"x45" out	-	4.42	-
115	JB	-	-	-
	29"x45" in	8.50	4.31	116
	42" out	-	-	-
116	MH w/42" in and out	8.50	4.11	117
117	DI w/42" in and out	8.33	3.86	118
118	EW w/42"	8.00	3.49	119
119	B=7, D=5, Z=2	-	3.47	309
120	DI w/12" out	-	7.30	121
121	DI	-	-	-
	12" in	-	7.20	124
	15" out	-	-	-
122	DI w/12" out	-	7.40	124
123	DI w/12" out	-	7.40	124
124	MH	-	-	-
	12" and 15" in	9.60	6.87	125
	23"x14" out	-	-	-
125	DI w/23"x14" in and out	-	6.81	127
126	DI w/12" out	8.20	6.65	127
127	MH	-	-	-
	23"x14" in	9.50	6.59	290
	30"x19" out	-	-	-
128	DI w/12" out	8.40	6.59	129
129	DI	-	-	-
	12" in	-	6.49	9-58
	30"x19" in	-	-	-
	34"x22" out	-	-	-
130	DI w/15" out	-	6.56	131
131	DI w/15" in and out	-	6.54	133
132	ES 15"	-	6.60	133
133	MH	-	-	-
	2-15" in	9.40	6.44	135
	15" out	-	-	-
134	DI w/15" out	8.30	6.50	135

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
135	DI	-	-	-
	2-15" in	-	6.40	137
	23"x14" out	-	-	-
136	DI w/15" out	8.80	6.50	137
137	DI	-	-	-
	15" in	-	6.23	139
	23"x14" in	-	-	-
	30"x19" out	-	-	-
138	DI w/15" out	8.80	6.40	139
139	DI	-	-	-
	15" in	-	6.16	141
	30"x19" in and out	-	-	-
140	DI w/15" out	-	6.20	141
141	MH	-	-	-
	15" in	9.00	6.13	9-59
	30"x19" in	-	-	-
	30"x19" out	-	-	-
142	DI w/15" out	-	6.20	9-59
143	DI w/15" out	-	6.08	146
144	DI w/15" out	9.00	6.58	145
145	DI w/15" in and out	9.00	6.38	146
146	DI	-	-	-
	2-15" in	-	5.66	149
	18" out	-	-	-
147	ES 15"	-	6.50	149
148	DI w/15" out	9.00	6.58	194
149	MH	-	-	-
	15" and 18" in	11.00	5.32	151
	21" out	-	-	-
150	ES 15"	-	6.60	151
151	DI	-	-	-
	21" in	-	4.79	-
	24" out	-	-	153
152	DI w/15" out	8.50	5.90	153
153	DI w/24" in and out	-	4.28	154
154	MH	-	-	-
	24" in	9.20	4.19	155
	27" out	-	-	-
155	MH w/27" in and out	9.20	4.06	157
156	DI w/15" out	7.90	5.50	157
157	DI w/27" in and out	-	4.00	159
158	DI w/15" out	8.00	5.58	159
159	DI	-	-	-
	27" in	-	3.76	161
	30" out	-	-	-
160	DI w/15" out	-	5.98	161
161	DI w/30" in and out	-	3.06	162
162	DI w/30" in and out	-	2.68	164
163	ES 15"	-	4.20	164
164	MH w/30" in and out	8.80	2.60	165
165	30" into Box Culvert	-	2.45	1
166	15"	-	6.60	167

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
167	15" into Box Culvert	-	2.23	1
168	B=3, D=2	-	1.58	Oxford Run
169	B=3, D=2	-	3.30	168
170	B=2, D=2, Z=.75	-	3.53	169
171	-	-	-1.47	Oxford Run
172	B=1, D=1.5, Z=.67	-	1.43	171
173	B=2, D=3, Z=.67	-	2.93	172
174	B=3, D=4, Z=.38	-	3.60	173
175	B=2, D=3, Z=.33	-	4.98	174
176	24"	-	5.54	175
177	24"	-	5.81	176
178	24"	-	5.85	177
179	24"	-	5.99	178
180	12"	-	7.31	181
181	12"	-	7.08	182
182	D=1, Z=1	-	7.58	Into Pond
183	B=3, D=2.5, Z=.3	-	-1.87	Oxford Run
184	B=2.5, D=2, Z=.37	-	1.60	183
185	B=2, D=3, Z=.5	-	4.60	184
186	18"	-	5.10	185
187	18"	-	5.33	186
188	12"	-	5.64	187
189	12"	-	6.23	188
190	12"	-	6.91	191
191	12"	-	6.29	187
192	12"	-	6.17	187
193	12"	-	6.30	192
194	12"	-	7.13	195
195	12"	-	6.98	193
196	15"	-	7.31	Various Directions
197	15"	-	7.49	Various Directions
198	15"	-	7.84	Various Directions
199	15"	-	6.57	Various Directions
200	-	-	0.50	Oxford Run
201	42"	-	1.67	200
202	42"	-	1.79	201
203	B=2, D=4, Z=.75	-	2.02	202
204	B=3, D=6, Z=1	-	2.73	203
205	18"	-	3.33	204
206	18"	-	3.27	205
207	B=3, D=4, Z=.63	-	3.03	206
208	B=3, D=2, Z=.25	-	3.27	207
209	B=3.5, D=4, Z=.44	-	3.47	208
210	18"	-	3.49	209
211	18"	-	3.68	210
212	B=2, D=2, Z=1.25	-	4.60	211
213	B=2, D=3, Z=.5	-	5.13	212
214	12"	-	4.76	215
215	12"	-	4.77	213
216	12"	-	5.63	213
217	12"	-	5.70	216
218	12"	-	5.36	219

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
219	12"	-	5.18	213
220	D=1.9, Z=.26	-	5.74	207
221	D=1.3, Z=1.14	-	4.70	222
222	B=2, D=2.5	-	3.40	207
223	18"	-	4.93	224
224	18"	-	4.73	225
225	18"	-	4.64	315
226	DI w/15" in and out	5.03	2.26	227
227	YD	-	-	-
	12" in	4.21	2.72	229
	15" in	-	1.96	-
	18" out	-	1.57	-
228	12"	-	3.04	227
229	18"	-	-0.08	Cedar Creek
230	12"	-	5.50	225
231	12"	-	5.71	230
232	B=2.5, D=1.5, Z=1.3	-	-	223
233	12"	-	5.72	Completely Blocked
234	12"	-	5.62	Completely Blocked
235	18"	-	5.69	319
236	15"	-	5.60	319
237	DI w/18" in and out	6.40	4.33	238
238	DI	-	-	-
	2-18" in	6.77	4.02	242
	24" out	-	-	-
239	YD w/12" in and out	6.14	4.59	240
240	YD	-	-	-
	2-18" out	6.61	3.84	241
			3.79	-
	24" in	-	3.79	-
	12" in	-	4.78	-
241	EW	-	-	-
	2-18"	6.60	3.66	244
			3.67	-
	18"	-	3.63	-
	24"	-	3.62	-
242	YD w/24" in and out	-	3.94	243
243	YD	-	-	-
	24" in	6.15	3.46	241
	24" out	-	3.37	-
244	D=1.3, B=6, Z=3.4	-	3.83	245
245	D=2.4, B=7, Z=3.3	-	2.43	246
246	D=6, B=8, Z=1	-	-0.31	248
247	EW 18"	4.73	0.41	248
248	EW 60"	5.79	-0.71	251
249	DI	-	-	-
	15" in	5.91	2.55	320
	15" out	-	2.46	-
250	15"	-	2.51	251
251	JB	-	-	-
	60" in	5.86	-0.81	252
	12" and 15" in	-	2.48	-
	60" out	-	-	-

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
252	JB	-	-	-
	60" in	5.44	-1.23	253
	18" in	-	0.73	-
	60" out	-	-	-
253	EW 60"	5.22	-1.28	254
254	B=4, D=4, Z=1	-	-1.29	Cedar Creek
255	DI w/18" in and out	6.72	3.79	256
256	DI	-	-	-
	18" in	6.35	3.59	260
	14"x23" in	-	-	-
	24" out	-	-	-
257	DI w/15" out	6.32	3.76	258
258	DI	-	-	-
	15" in	6.32	3.70	256
	14"x23" out	-	-	-
259	DI	-	-	-
	21" in	6.32	3.37	260
	19"x30" out	-	-	-
260	DI	-	-	-
	24" in	6.35	3.31	261
	19"x30" in	-	-	-
	30" out	-	-	-
261	YD w/30" in and out	5.73	3.01	262
262	30"	-	2.97	65
263	YD w/18" out	6.08	4.08	264
264	YD w/18" in and out	6.15	3.85	265
265	YD w/18" in and out	6.21	3.76	266
266	YD w/18" in and out	6.13	3.71	241
267	B=3, D=2, Z=.25	-	4.92	268
268	B=2.5, D=2, Z=.63	-	5.13	269
269	B=4, D=2, Z=.5	-	4.50	270
270	B=3, D=3, Z=.5	-	4.6	273
271	12"	-	4.36	272
272	YD w/12" in and out	6.04	4.20	274
273	24"	-	4.29	274
274	DI	-	-	-
	24" in	6.87	4.38	275
	12" in	-	4.29	-
	24"x19" out	-	4.08	-
275	DI	-	-	-
	27"x19" in	6.92	4.62	240
	24" out	-	4.23	-
276	DI w/12" out	7.23	4.98	277
277	YD w/12" in and out	6.91	4.91	278
278	ES 12"	-	4.73	269
279	B=4, D=3, Z=.5	-	5.23	278
280	12"	-	5.30	279
281	18"	-	5.02	279
282	12"	-	4.97	280
283	18"	-	4.96	281
284	Ditch Fades Out	-	-	282/283
285	18"	-	-	284

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
	All pipes are RCP unless otherwise noted			
286	18" half pipe	-	5.40	279
287	ES 15"	-	7.00	290
288	DI 11"x18"	7.58±	5.43	279
289	DI 11"x18"	7.58±	5.48	288
290	MH	-	-	-
	15" in	9.50	6.54	129
	30"x19" in	-	-	-
	30"x19" out	-	-	-
291	18" half pipe	-	5.63	289
292	B=2, D=1.5, Z=1.67	-	4.25	305
293	B=1, D=1.5, Z=2	-	3.51	294
294	B=2, D=3.3, Z=2	-	2.61	295
295	18"	-	2.24	296
296	DI w/18" in and out	5.34	2.22	297
297	DI w/18" in and out	5.34	2.10	298
298	18"	-	2.08	299
299	B=2, D=3.7, Z=2	-	2.08	15-194
300	DI w/15" out	6.80	4.38	29
301	ES 15"	-	5.12	42
302	DI w/15" in and out	-	5.63	53
303	DI w/15" out	8.70	6.30	62
304	DI w/15" out	8.60	6.18	146
305	18"	-	2.04	306
306	DI w/18" in and out	4.85	1.99	307
307	DI w/18" in and out	4.73	1.76	308
308	18"	-	1.71	15-189
309	30"	-	2.78	310
310	30"	-	2.91	22/23/24
311	B=3.5, D=1, Z=1	-	6.00	114
312	18"	-	3.56	211
313	18"	-	3.63	312
314	D=1, Z=3	-	4.03	313
315	18"	-	5.74	316
316	B=1, D=2, Z=.75	-	5.01	317
317	B=1.5, D=2, Z=2.13	-	2.49	318
318	15"	-	2.21	226
319	YD	-	-	-
	15" in	8.41	5.66±	238
	18" in and out	-	-	-
320	15" into 60"	-	1.50±	251
321	ES 21"	-	3.39	259
322	EW w/18"	-	4.45	9-3
323	YD w/18" out	6.23	4.53	322
324	YD w/18" out	7.23	4.88	237
325	12"	-	3.59	326
326	YD	-	-	-
	12" in	5.48	3.49	327
	18" out	-	2.94	-
327	YD	-	-	-
	18" in	3.10	0.92	252
	18" out	-	0.62	-
328	18"	-	-	285

TOPO SHEET NUMBER 14

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSSTREAM NUMBER
All pipes are RCP unless otherwise noted				
329	12"	-	4.27	330
330	12"	-	4.22	250
331	12"	-	5.03	239
332	15"	-	3.19	333
333	DI w/15" in and out	4.65	1.74	334
334	DI w/15" in and out	5.01	1.70	15-203
335	12"	-	7.00	336
336	12"	-	6.91	236
337	B=3, D=1.5, Z=2	-	4.50	15-177
338	YD w/12" in and out	6.25	4.26	339
339	YD w/12" in and out	6.25	3.85	340
340	12"	-	3.57	15-177
341	15"	-	2.48	246

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 15

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
1	EW w/24"	-	-0.08	Canal to Back River
2	EW w/24"	-	-0.08	Canal to Back River
3	EW w/24"	-	0.62	1
4	EW w/24"	-	0.52	2
5	B=11, D=4.5, Z=0.45	-	0.66	3 and 4
6	B=9, D=3.5, Z=.6	-	1.16	5
7	B=7, D=1.5, Z=2.33	-	1.66	6
8	36"	-	1.31	7
9	36"	-	1.66	7
10	36"	-	1.78	8
11	36"	-	1.86	9
12	B=3, D=2.5, Z=.8	-	1.76	10 and 11
13	B=3, D=2.5, Z=.8	-	2.45	12
14	B=2, D=2, Z=1	-	2.75	13
15	B=1, D=1, Z=1	-	2.82	14
16	B=2.5, D=1.5, Z=1.2	-	3.02	15
17	18"	-	2.75	16
18	18"	-	2.71	17
19	B=2.5, D=1.75, Z=1	-	2.97	18
20	B=2, D=1, Z=5	-	3.17	19
21	B=3.5, D=3, Z=.9	-	3.16	20
22	B=3, D=3, Z=.8	-	3.06	21
23	B=2, D=2.5, Z=1	-	3.47	22
24	18"	-	2.47	23
25	18"	-	2.64	24
26	B=2, D=2, Z=.75	-	3.47	25
27	B=1, D=2.5, Z=1.2	-	3.47	25
28	B=1.5, D=2.5, Z=1.3	-	3.47	24
29	B=2, D=2, Z=1.5	-	4.07	25
30	B=1, D=1.5, Z=1.3	-	3.67	24
31	B=3, D=2, Z=.5	-	3.41	32
32	B=2, D=2.5, Z=1	-	3.26	21
33	B=3, D=2.5, Z=.6	-	2.16	7
34	B=3, D=2.3, Z=1.1	-	2.16	6
35	B=2.5, D=.5, Z=5.5	-	3.06	34
36	EW w/36"	4.80	-1.15	Canal to Topping Creek
37	DI	5.00	-	-
	36" out	-	-0.74	36
	21" in	-	1.72	36
38	DI	5.00	-	-
	21" out	-	1.82	37
	15" in	-	2.01	37
39	DI w/15" out	5.27	2.28	38
40	36" Stub (Plugged)	-	-	37
41	EW w/24"	4.50	-0.11	Canal to Topping Creek
42	DI	5.00	-	-
	24" out	-	0.11	41
	18" in	-	0.11	41
	12" in	-	0.88	41

TOPO SHEET NUMBER 15

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
43	MH w/18" in and out	5.47	0.49	42
44	DI	5.19	-	-
	18" out	-	0.93	43
	15" in	-	2.75	43
	12" in	-	2.88	43
45	DI w/15" out	5.39	2.87	44
46	DI w/12" out	5.23	2.98	44
47	DI 12" out	5.00	1.00	42
48	B=2, D=3, Z=.33	-	1.5	Topping Creek
49	B=3, D=3, Z=1	-	2.5	48
50	18"	-	2.7	49
51	DI w/14"x23" in	5.42	2.71	50
	18" out	-	2.71	-
	12" in	-	2.71	-
52	DI w/14"x23" out	5.42	2.81	51
	18" in	-	2.81	-
	12" in	-	2.81	-
53	18"	-	2.82	52
54	B=3, D=3, Z=1.67	-	3.00	53
55	B=2, D=1, Z=1.1	-	4.45	54
56	YD w/12" in and out	5.20	3.01	52
57	YD w/12" out	5.10	3.12	56
58	YD w/12" in and out	5.00	2.93	51
59	YD w/12" out	5.00	3.03	58
60	B=7, D=1.5, Z=1.67	-	0.83	Topping Creek
61	18"	-	0.92	60
62	18"	-	2.10	61
63	B=4, D=1.5, Z=1.67	-	1.20	62
64	B=2, D=2, Z=1	-	1.60	63
65	30"	-	1.73	64
66	30"	-	1.93	65
67	B=2, D=2, Z=1	-	2.40	66
68	18"x24" CMP	-	2.43	67
69	18"x24" CMP	-	2.53	68
70	15"x21" CMP	-	2.93	69
71	15"x21" CMP	-	3.13	70
72	15"x21" CMP	-	3.61	71
73	15"x21" CMP	-	3.82	72
74	15"x21" CMP	-	2.83	67
75	15"x21" CMP	-	3.03	74
76	B=4, D=2, Z=1	-	2.0	66
77	B=2, D=2, Z=1.5	-	2.9	76
78	15"	-	2.93	77
79	15"	-	3.53	78
80	B=2, D=2, Z=.75	-	1.11	Topping Creek
81	1.7' Paved Swale	-	1.84	80
82	1.7' Paved Swale	-	3.16	81
83	B=3, D=3, Z=1	-	3.13	82
84	B=2, D=1.5, Z=1.67	-	3.63	83
85	1.7' Paved Swale	-	1.84	80
86	6.3' Valley Gutter	-	4.05	85
87	6.3' Valley Gutter	-	4.12	86
88	1.7' Paved Swale	-	4.42	87
89	B=2, D=2, Z=1	-	2.21	Topping Creek

TOPO SHEET NUMBER 15

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
90	EW w/14"x23"	4.18	2.45	89
91	EW w/14"x23"	4.38	2.65	90
92	12"	-	3.22	90
93	12"	-	3.42	92
94	B=8, D=1.5, Z=3	-	1.91	Topping Creek
95	B=2.5, D=1.5, Z=1	-	4.30	94
96	B=1, D=.5, Z=.5	-	4.60	95
97	12"	-	4.35	96
98	12"	-	4.48	97
99	D=1, Z=1.5	-	3.83	115
100	12"	-	4.56	99
101	12"	-	4.60	100
102	B=11, D=3, Z=1.5	-	0.00	Back River
103	B=5, D=3.5, Z=.71	-	1.60	102
104	12"	-	1.92	103
105	12"	-	2.15	104
106	18"	-	1.57	103
107	18"	-	1.65	106
108	B=2.5, D=2.5, Z=.9	-	2.2	107
109	18"	-	2.07	108
110	18"	-	2.78	109
111	B=2, D=2, Z=1	-	2.3	110
112	18"	-	2.25	111
113	18"	-	2.19	112
114	B=3, D=1.5, Z=.67	-	2.9	113
115	B=3, D=1.5, Z=.67	-	3.3	114
116	B=3, D=1.5, Z=.67	-	3.1	115
117	B=1, D=0.5, Z=1	-	3.7	116
118	D=.7, Z=7	-	3.2	117
119	D=.3, Z=13	-	3.5	118
120	B=3, D=1.5, Z=.67	-	3.10	121
121	B=3, D=1.5, Z=.67	-	3.10	(sheet 10-155)
122	12"	-	4.49	123
123	12"	-	4.37	110
124	15"	-	-	Canal @ Cedar Landing
125	DI w/15" in and out	-	-	124
126	DI w/15" out	-	-	125
127	EW w/18"	-	-0.05	Canal to Back River
128	DI	3.65	-	-
	18" out	-	0.27	-
	15" in	-	0.52	127
129	DI w/15" out	-	-	128
130	EW w/15"	-	-0.27	Canal to Back River
131	DI	3.77	-	-
	15" out	-	-0.04	-
	12" in	-	0.21	130
132	DI w/12" out	-	-	131
133	15"	-	2.00	Canal to Back River
134	DI w/15" in and out	4.71	2.03	133
135	DI w/15" out	4.71	2.13	134
136	B=2.5, D=3, Z=1	-	1.63	Cedar Creek
137	B=2, D=2, Z=1.4	-	2.43	136
138	8"	-	2.41	137
139	8"	-	3.04	138

TOPO SHEET NUMBER 15

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
140	B=3.5, D=1.5, Z=2.2	-	1.82	Cedar Creek
141	B=3.5, D=2.5, Z=1	-	2.52	140
142	18"	-	2.23	141
143	18"	-	2.22	142
144	B=2.5, D=2.5, Z=1	-	2.32	143
145	B=3, D=2, Z=1	-	3.29	144
146	B=2.5, D=2, Z=.1	-	3.49	145
147	EW w/18"	-	1.55	Canal to Cedar Creek
148	MH w/18" in and out	4.23	2.49	147
149	DI w/18" out	5.39	2.59	148
150	EW w/18"	-	1.52	Canal to Cedar Creek
151	MH w/18" in and out	4.47	2.36	150
152	DI w/18" out	5.39	2.59	151
153	EW w/18"	-	1.38	Canal to Cedar Creek
154	DI w/18" out	5.21	1.68	153
155	EW w/18"	-	1.47	Cedar Creek
156	DI w/18" out	5.07	2.27	
157	EW w/30"	-	1.40	Canal to Cedar Creek
158	MH	4.33	-	-
	30" out	-	1.59	-
	24" in	-	1.59	-
	18" in	-	1.59	-
	18" in	-	1.59	157
159	DI	5.53	-	-
	24" out	-	1.98	-
	18" in	-	1.98	-
	12" in	-	3.02	158
160	MH w/18" in and out	6.13	2.35	159
161	DI	5.45	-	-
	18" out	-	2.94	-
	12" in	-	2.94	160
162	DI w/12" out	5.45	3.15	161
163	DI w/12" out	5.53	3.23	159
164	DI w/18" in and out	5.03	2.12	158
165	DI w/18" in and out	5.06	2.33	164
166	DI	5.47	-	-
	18" out	-	2.62	-
	12" in	-	2.62	165
167	YD w/12" out	4.23	2.94	166
168	DI	5.20	-	-
	18" out	-	2.00	-
	12" in	-	2.69	158
169	DI w/12" out	5.20	2.90	168
170	DI w/15" in and out	5.23	2.42	196
171	DI w/15" in and out	5.27	2.63	170
172	DI w/12" in 15" out	5.25	3.53	171
173	12"	-	-	172
174	EW w/15"	-	0.17	196
175	DI w/15" in and out	5.00	0.61	174
176	DI w/15" out	5.00	0.73	175
177	24"	-	0.95	201
178	15"	-	2.75	177
179	YD	6.25	-	-
	15" out	-	3.01	-
	12" in	-	3.01	178

TOPO SHEET NUMBER 15

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
180	15"	-	3.16	178
181	YD	6.25	-	-
	15" out	-	3.43	-
	12" in	-	3.43	180
182	D=2, Z=2	-	1.48	196
183	D=1.5, Z=2	-	4.40	182
184	DI	4.73	-	-
	18" out	-	1.33	-
	15" in	-	1.59	-
	12" in	-	1.33	-
185	DI w/12" out	4.73	1.73	184
186	DI w/15" out	4.73	1.73	184
187	DI	5.93	-	-
	15" out	-	3.08	-
	12" in	-	3.08	Sheet 14-249
188	12"	-	3.38	187
189	B=2, D=1.5, Z=2	-	0.10	Cedar Creek
190	15"	-	1.93	189
191	DI w/15" in and out	5.18	1.42	190
192	DI w/15" out	5.07	2.46	191
193	B=2, D=.5, Z=2	-	4.25	194
194	B=2, D=1.5, Z=2	-	0.30	Cedar Creek
195	EW w/48"x76"	5.12	-0.52	Cedar Creek
196	EW w/48"x76"	5.66	-0.31	195
197	EW w/24"	5.12	-0.20	Cedar Creek
198	EW w/24"	5.66	0.45	197
199	EW w/18"	5.12	1.60	Cedar Creek
200	18"	-	2.27	199
201	24"	-	0.90	196
202	B=10, D=3, Z=1	-	0.80	Cedar Creek
203	18"	-	1.29	202
204	12"	-	2.97	Cedar Creek
205	12"	-	2.81	204
206	15"	-	4.41	204
207	15"	-	4.20	206
208	12"	-	4.87	204
209	12"	-	5.13	208
210	EW w/12"	7.45	4.04	200
211	12"	-	4.61	210
212	12"	-	4.09	198
213	12"	-	4.23	212
214	12"	-	2.89	31
215	18"	-	-	Canal to Topping Creek
216	DI	-	-	-
	18" out	-	-	-
	15" in	-	-	215
217	DI w/15" out	-	-	216
218	EW w/18"	-	-	10-149
219	EW w/18"	-	-	218

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 16

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
1	B=4, D=3.5, Z=.86	-	0.13	Watts Creek
2	24"	-	0.52	1
3	24"	-	0.54	2
4	24"	-	0.36	1
5	24"	-	0.26	3
6	B=1, D=3, Z=1.27	-	1.04	5
7	B=4, D=3, Z=.42	-	-	6
8	B=2, D=2, Z=1.4	-	-	7
9	B=1, D=.8, Z=0.03	-	-	8
10	B=1, D=1, Z=1.5	-	-	9
11	B=3, D=2, Z=1	-	-	7
12	B=1, D=2, Z=.25	-	-	11
13	B=2, D=2, Z=.25	-	-	7
14	B=1, D=1, Z=.73	-	-	13
15	DI w/15" out	3.71	1.93	16
16	DI w/15" in, 18" out	4.46	1.53	88
17	DI w/12" out	3.69	1.60	18
18	DI w/12" in, 15" out	2.98	1.05	16
19	DI w/15" out	3.70	1.86	20
20	DI w/15" in, 12" out	3.56	1.11	18
21	DI w/18" out	3.75	1.26	22
22	DI w/18" in	4.04	0.98	89
23	DI w/15" out	3.53	1.40	24
24	15"	-	-	39
25	DI w/18" out	3.53	1.25	26
26	DI w/18" in and out	3.60	1.30	27
27	18"	-	-	41
28	B=18, D=5.5, Z=.5	-	-	Canal to Big Salt Marsh
29	24"	-	-	28
30	24"	-	-	29
31	24"	-	-	28
32	24"	-	-	31
33	B=8, D=2.5, Z=.8	-	-	30 and 32
34	24"x38"	-	-	33
35	24"x38"	-	-	34
36	B=7, D=2, Z=2	-	-	35
37	B=15, D=3, Z=.8	-	-	36
38	DI	-	-	-
	36" in and stub out	3.78	-	37
39	DI	-	-	-
	stub in and 36" out	3.78	-0.27	38
40	B=6, D=2, Z=1.25	-	-	39
41	B=6, D=2, Z=1.3	-	-	40
42	B=4, D=1.5, Z=1	-	-	41
43	DI	-	-	-
	18" in and stub out	3.20	1.50	42
44	DI w/18" out	3.45	1.40	43
45	DI w/15" out	3.78	1.85	46

TOPO SHEET NUMBER 16

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
46	15"	-	1.73	41
47	YD w/15" out	3.05	1.05	48
48	YD	-	-	-
	2-15" in	2.39	0.39	49
	15" out	-	-	-
49	EW w/15"	-	0.23	35
50	DI w/15" out	3.73	0.73	49
51	B=6, D=1.5, Z=.67	-	-	41
52	B=6, D=1.25, Z=1	-	-	51
53	EW w/18"	-	-	54
54	EW w/18"	-	-	Marsh
55	EW w/15"	-	-	56
56	EW w/15"	-	-	57
57	B=1, D=1, Z=1.75	-	-	Long Creek
58	EW w/18"	-	-	59
59	EW w/18"	-	-	60
60	B=4, D=1.5, Z=1.67	-	-	Long Creek
61	15"	-	-	62
62	15"	-	-	63
63	B=6, D=1.5, Z=2	-	-	Marsh
64	B=4, D=1.5, Z=1	-	-	Big Salt Marsh
65	12"	-	-	64
66	MH w/12" in and out	-	-	65
67	12"	-	-	66
68	12"	-	-	66
69	12"	-	-	66
70	18"	-	1.98	70
71	18"	-	1.86	72
72	EW w/18"	5.05	3.00	73
73	EW w/18"	4.97	2.92	74
74	B=4, D=2, Z=2	-	-	11-1
75	B=1, D=0.7, Z=2	-	3.39	74
76	B=1, D=0.6, Z=2	-	3.49	75
77	B=4, D=3.5, Z=1.5	-	-	Marsh at Watts Creek
78	B=2, D=2, Z=.5	-	-	77
79	B=3, D=2.3, Z=.25	-	-	78
80	B=1, D=.8, Z=0	-	-	78
81	B=2, D=1.7, Z=0.6	-	-	78
82	12"	-	-	83
83	12"	-	-	Watts Creek
84	B=8	-	-	Back River
85	B=2, D=1.7, Z=0.6	-	-	84
86	B=4, D=3, Z=0.3	-	-	Watts Creek
87	B=2, D=.4, Z=1.25	-	-	86
88	18"	-	-	Easton Cove
89	15"	-	0.88	28

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 17

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	EW w/12"	-	-	2
2	EW w/12"	-	-	Canal to Front Cove
3	12"	-	-	5
4	12"	-	-	5
5	YD	-	-	-
	2-12" in	-	-	6
	12" out	-	-	-
6	12"	-	-	Canal to Long Creek

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 18

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	12"	-	6.08	3
2	12"	-	5.87	3
3	YD	7.58	6.02	4
4	MH w/18" in and out	7.33	4.67	5
5	DI w/19"x30" out	6.81	4.32	6
	12" in	-	-	-
	18" in	-	-	-
6.	EW w/19"x30	6.68	4.10	7
7	B=2, D=2, Z=1	-	4.06	9
8	EW w/12"	5.64	3.89	9
9	B=4, D=2, Z=1	-	3.69	11
10	EW w/14"x23"	5.65	3.48	11
11	B=5, D=2.5, Z=1	-	3.15	13
12	EW w/15"	5.33	3.08	13
13	B=10, D=1.5±, Z=2	-	2.28	14
14	Trapezoidal Ditch	-	1.94	15
15	48"	-	-0.56	16
16	48"	-	-0.82	Brick Kiln Creek
17	DI w/12" out	6.82	4.41	5
18	DI w/12" out	6.66	4.27	19
19	DI w/12" in and out	6.66	4.17	8
20	EW w/19"x30" (twin)	6.61	4.03	21
21	EW w/19"x30" (twin)	6.49	3.91	9
22	DI w/12" out	6.06	3.79	23
23	DI w/14"x23" out	6.06	-	-
	12" in	-	3.69	10
24	EW w/19"x30" (twin)	7.07	4.39	25
25	EW w/19"x30" (twin)	6.81	4.23	11
26	DI w/12" out	6.93	3.42	27
27	DI	6.91	-	-
	12" in	-	-	-
	15" out	-	3.34	12
28	B=2, D=1, Z=1	-	5.77	33
29	EW w/15"	6.15	3.90	33
30	EW w/15"	5.59	3.34	33
31	DI w/15" out	6.10	3.60	30
32	DI w/15" out	6.41	4.11	29
33	B=6, Z=2, D=1.5±	-	2.66	13
34	D=3, Z=1	-	5.80	35
35	D=4, Z=.63	-	5.30	36
36	B=5, D=4, Z=1	-	4.0	37
37	12" PVC	-	3.04	38
38	12" PVC	-	2.72	39
39	B=9, D=2, Z=3	-	2.70	40
40	Ditch	-	3.60	15
41	Ditch	-	2.11	15
42	B=3, D=2, Z=.5	-	2.66	41
43	B=2, D=4, Z=.38	-	3.56	42

TOPO SHEET NUMBER 18

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSREAM NUMBER
All pipes are RCP unless otherwise noted				
44	Ditch	-	4.76	43
45	Ditch	-	-	43
46	B=3, D=4, Z=.38	-	-	40
47	B=2, D=3, Z=.33	-	4.90	46
48	B=3, D=3, Z=.17	-	-	47
49	B=3, D=3, Z=0	-	-	48
50	B=2, D=.5, Z=1	-	6.02	51
51	B=2, D=.5, Z=1	-	5.12	52
52	B=3, D=3, Z=.88	-	4.35	53
53	Ditch	-	2.32	15
54	Ditch	-	5.06	55
55	B=6, D=3, Z=	-	4.26	56
56	30"	-	-1.70	57
57	30"	-	-0.27	Brick Kiln Creek
58	Ditch	-	-	Brick Kiln Creek
59	B=4, D=3, Z=.83	-	-	58
60	15" CP	-	-	61
61	15" CP	-	-	62
62	15" CP	-	-	63
63	15" CP	-	-	Pond
64	B=6, D=6, Z=1	-	2.10	62/59
65	B=5, D=6, Z=1.1	-	2.37	64
66	B=6, D=7, Z=1	-	2.59	65
67	B=4, D=6, Z=1.17	-	2.91	66
68	B=5, D=6.5 Z=1.08	-	3.08	67
69	B=4, D=5, Z=1.3	-	3.53	68
70	YD	-	-	71
71	15" CP	-	-	72
72	15" CP	-	-	73
73	B=2, D=2, Z=.5	-	-	74
74	12" CP	-	5.03	69
	12" CP	-	4.61	69
75	B=3, D=4.5, Z=.55	-	-	69
76	B=2, D=4, Z=.25	-	-	75
77	B=2, D=4, Z=.25	-	-	76
78	D=.7, Z=1	-	6.50	93
79	B=.5, D=.5, Z=1	-	-	77
80	15" CP	-	-	77
81	15" CP	-	-	80
82	DI w/twin 12" CP	-	-	110
83	Twin 12" CP	-	-	82
84	12" CP	-	-	86
85	12" CP	-	-	86
86	EW w/twin 15" CP	-	-	87
87	EW w/twin 15" CP	-	-	73
88	B=4, D=1, Z=0	-	2.89	Brick Kiln Creek
89	15" CP	-	2.40	88
90	15" CP	-	2.21	89
91	End Pipe	-	3.7±	90
92	End Pipe	-	3.7±	91
93	B=1, D=2, Z=.5	-	4.39	90
94	DI	6.34	-	-
	2-12" in	-	-	-
	12" out	-	3.61	95

TOPO SHEET NUMBER 18

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
95	DI	5.86	-	-
	2-12" in	-	2.20	96
	12" out	-	-	-
96	18"	-	1.58	Brick Kiln Creek
97	DI w/12" out	5.02	3.85	95
98	DI w/8" in	4.66	3.96	97
99	DI	4.55	-	-
	6" in	-	4.65	-
	8" out	-	4.16	98
100	DI w/12" in and out	4.78	3.00	Brick Kiln Creek
101	12"	-	5.14	102
102	12"	-	4.76	103
103	12"	-	3.64	104
104	12"	-	2.81	Brick Kiln Creek
105	15" CP	-	2.90	41
106	2.5' Concrete Swale	-	6.36	41
107	15"	-	6.29	49
108	unknown	-	-	107
109	12"	-	3.70	94
110	DI	-	-	-
	12" in	-	-	-
	2-12" out	-	-	111
111	YD	-	-	-
	2-12" in	-	-	-
	15" out	-	-	112
112	15"	-	-	81
113	DI w/2-12" out	-	-	114
114	DI	-	-	-
	2-12" in	-	-	-
	2-12" out	-	-	74
115	12" CMP	-	5.72	unknown
116	unknown	-	-	unknown
117	D=2, Z=.9	-	5.93	118
118	D=2.9, Z=.6	-	4.43	119
119	24"	-	4.03	120
120	24"	-	3.46	121
121	D=1, Z=2.5	-	2.00	Oxford Run
122	12"	-	6.11	93
123	12"	-	6.27	122

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 20

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	DI w/15" out	-	-	2
2	DI	-	-	-
3	15" in and out stub	-	-	Fore Landing Creek
4	DI w/18" out	-	-	4
5	18"	-	-	Fore Landing Creek
6	DI w/15" out	-	-	6
6	15"	-	-	Fore Landing Creek

POQUOSON DRAINAGE STUDY

TOPO SHEET NUMBER 21

NUMBER	DESCRIPTION	TOP	INVERT	DOWNSTREAM NUMBER
All pipes are RCP unless otherwise noted				
1	15"	-	-	2
2	15"	-	-	Front Cove
3	18"	-	-	4
4	18"	-	-	Front Cove

MASTER
DRAINAGE STUDY
CITY OF POQUOSON
VIRGINIA

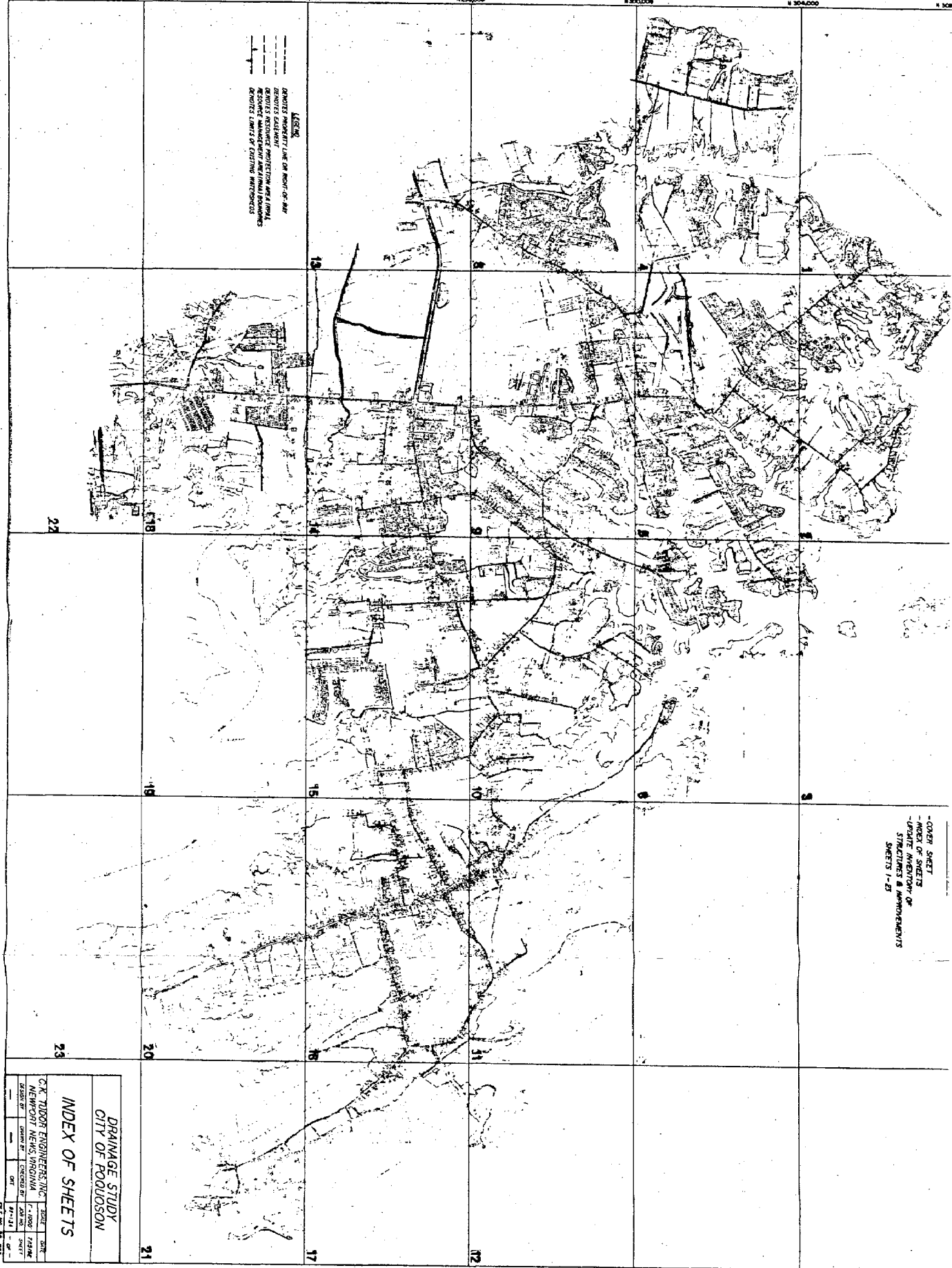
JULY 1992
UPDATE INVENTORY OF
STRUCTURES & IMPROVEMENTS

CITY COUNCIL

L. CORNELL BURCHER, MAYOR
GORDON C. HELSEL, JR. COUNCILMAN
L. HAROLD GILPIN, JR. COUNCILMAN
JAMES T. HOLLOWAY, JR. COUNCILMAN
W. CROSBY FORREST, III COUNCILMAN
ROGER N. MESSIER COUNCILMAN
BELVIN F. WARD, JR. COUNCILMAN
ROBERT M. MURPHY, CITY MANAGER

C. K. TUDOR ENGINEERS, INC.
11524 JEFFERSON AVENUE
NEWPORT NEWS, VIRGINIA

N 304,000 N 300,000 N 296,000 N 292,000 N 288,000 N 284,000

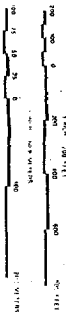


DRAINAGE STUDY CITY OF POOLUSON			
INDEX OF SHEETS			
C.A. TODOR ENGINEERING, INC.	DATE	SHEET	OF
NEWPORT NEWS, VIRGINIA	1-10-60	1-10-60	1-10-60
DESIGN BY	CHECKED BY	DATE	BY
		1-1-61	

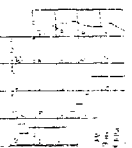
NO.	DATE	DESCRIPTION
1	10/1/81	PROJECT START
2	10/1/81	PROJECT START
3	10/1/81	PROJECT START
4	10/1/81	PROJECT START
5	10/1/81	PROJECT START
6	10/1/81	PROJECT START
7	10/1/81	PROJECT START
8	10/1/81	PROJECT START
9	10/1/81	PROJECT START
10	10/1/81	PROJECT START

PROJECT NO.	81-001
PROJECT NAME	DRAINAGE STUDY
PROJECT LOCATION	CITY OF FORT MONROE
PROJECT DATE	10/1/81
PROJECT STATUS	COMPLETED
PROJECT OWNER	CITY OF FORT MONROE
PROJECT DESIGNER	STRUCTURES & IMPROVEMENTS
PROJECT CHECKER	STRUCTURES & IMPROVEMENTS
PROJECT APPROVER	STRUCTURES & IMPROVEMENTS

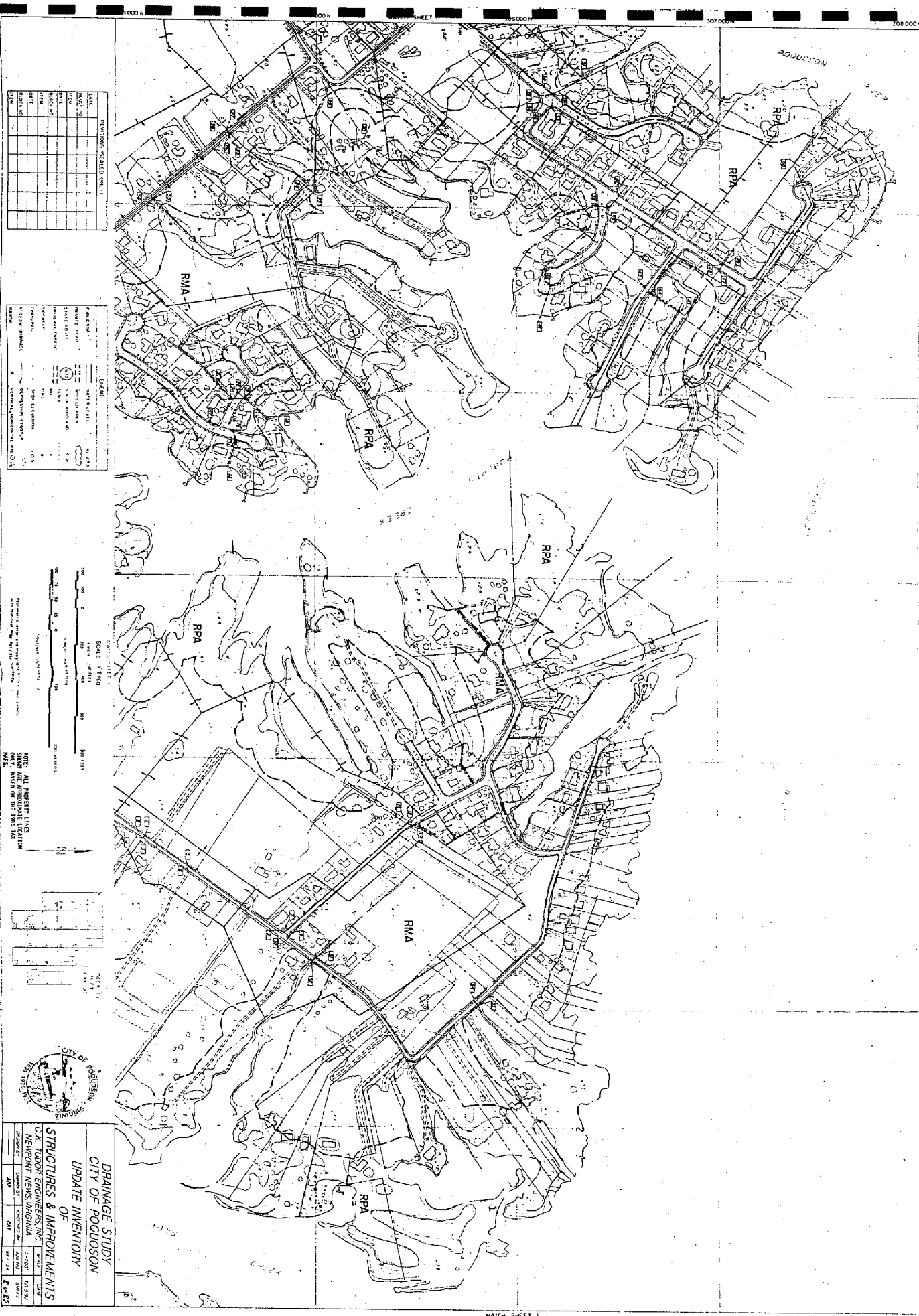
SCALE 1"=400'



NOTE: ALL PROPERTY LINES
SHOWN ARE APPROXIMATE LOCATIONS
ONLY. BASED ON THE 1985 DATUM.



DRAINAGE STUDY CITY OF PORTLAND UPDATE INVENTORY OF			
STRUCTURES & IMPROVEMENTS			
C.R. TULLY PROPERTIES, INC. 1511 CLIFTON AVE. SEASIDE, VIRGINIA			
CL-25-01	CL-25-02	CL-25-03	CL-25-04
CL-25-05	CL-25-06	CL-25-07	CL-25-08
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CL-25-845	CL-25-846	CL-25-847	CL-25-848
CL-25-849	CL-25-850	CL-25-851	CL-25-852
CL-25-853	CL-25-854	CL-25-855	CL-25-856
CL-25-857	CL-25-858	CL-25-859	CL-25-860
CL-25-861	CL-25-862	CL-25-863	CL-25-864
CL-25-865	CL-25-866	CL-25-867	CL-25-868
CL-25-869	CL-25-870	CL-25-871	CL-25-872
CL-25-873	CL-25-874	CL-25-875	CL-25-876
CL-25-877	CL-25-878	CL-25-879	CL-25-880
CL-25-881	CL-25-882	CL-25-883	CL-25-884
CL-25-			

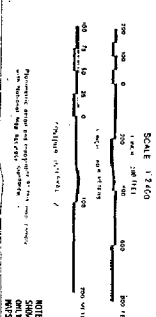


REVISIONS

DATE	BY	REVISION
01/27/00
02/27/00
03/27/00
04/27/00
05/27/00
06/27/00
07/27/00
08/27/00
09/27/00
10/27/00
11/27/00
12/27/00

PROJECT DATA

PROJECT NAME	PROJECT NO.	PROJECT DATE
DRAINAGE STUDY
STRUCTURES & IMPROVEMENTS
UPDATE INVENTORY
PROJECT LOCATION
PROJECT OWNER
PROJECT ENGINEER
PROJECT SURVEYOR
PROJECT DRAFTER
PROJECT CHECKER
PROJECT APPROVER



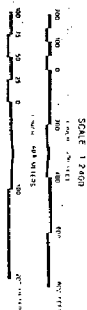
NOTE: ALL PROPERTY LINES SHOWN ON THIS MAP ARE BASED ON THE 1985 TAX MAP.



DRAINAGE STUDY
CITY OF POUGHKEEPSON
UPDATE INVENTORY
OF
STRUCTURES & IMPROVEMENTS

PROJECT NAME	PROJECT NO.	PROJECT DATE
DRAINAGE STUDY
STRUCTURES & IMPROVEMENTS
UPDATE INVENTORY
PROJECT LOCATION
PROJECT OWNER
PROJECT ENGINEER
PROJECT SURVEYOR
PROJECT DRAFTER
PROJECT CHECKER
PROJECT APPROVER

RECORDS IN A.F. 201-1	
DATE	
10-25-20	
TIME	
DATE	
10-26-20	
TIME	
DATE	
10-27-20	
TIME	

[illegible]

NOTE: ALL PROPERTY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY, BASED ON THE 1985 TAX MAPS.

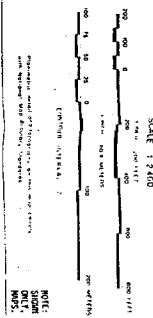


DRAINAGE STUDY
 CITY OF POQUOSON
 UPDATE INVENTORY
 OF
 STRUCTURES & IMPROVEMENTS
 C. K. TUDOR FRAZIER ENGINEERING, INC.
 147 WYOMING AVE. VIRGINIA
 BEACH, VA 23062
 PHONE (703) 681-1111
 FAX (703) 681-1112

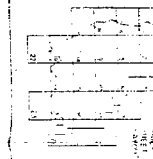


DATE	BY	REVISION
11/11/11	W. J. J.	1.0
11/11/11	W. J. J.	2.0
11/11/11	W. J. J.	3.0
11/11/11	W. J. J.	4.0
11/11/11	W. J. J.	5.0
11/11/11	W. J. J.	6.0
11/11/11	W. J. J.	7.0
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11/11/11	W. J. J.	9.0
11/11/11	W. J. J.	10.0

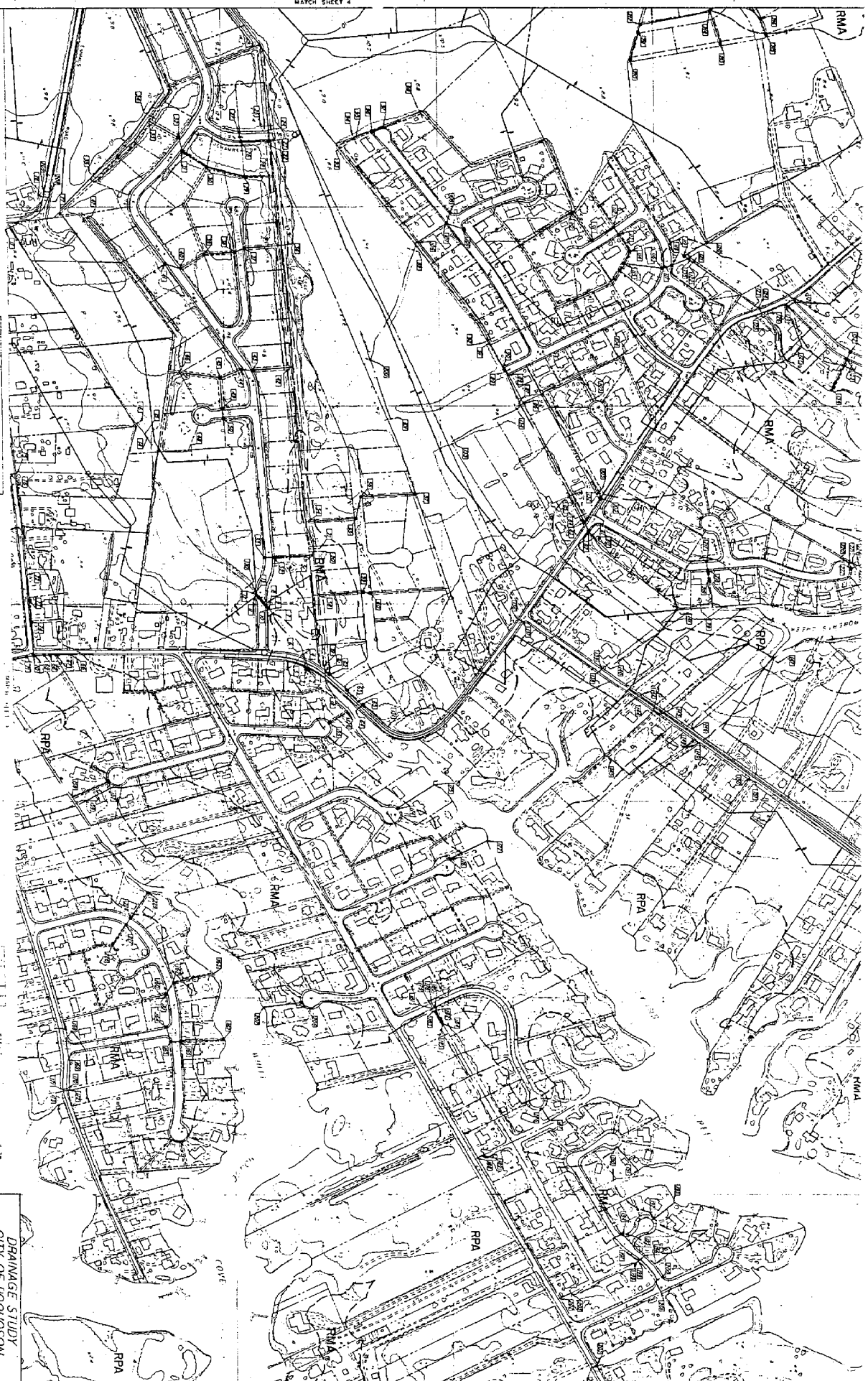
PROJECT	NO. 212
WATER 1.1.1.1	1.1.1.1
WATER 1.1.1.2	1.1.1.2
WATER 1.1.1.3	1.1.1.3
WATER 1.1.1.4	1.1.1.4
WATER 1.1.1.5	1.1.1.5
WATER 1.1.1.6	1.1.1.6
WATER 1.1.1.7	1.1.1.7
WATER 1.1.1.8	1.1.1.8
WATER 1.1.1.9	1.1.1.9
WATER 1.1.1.10	1.1.1.10

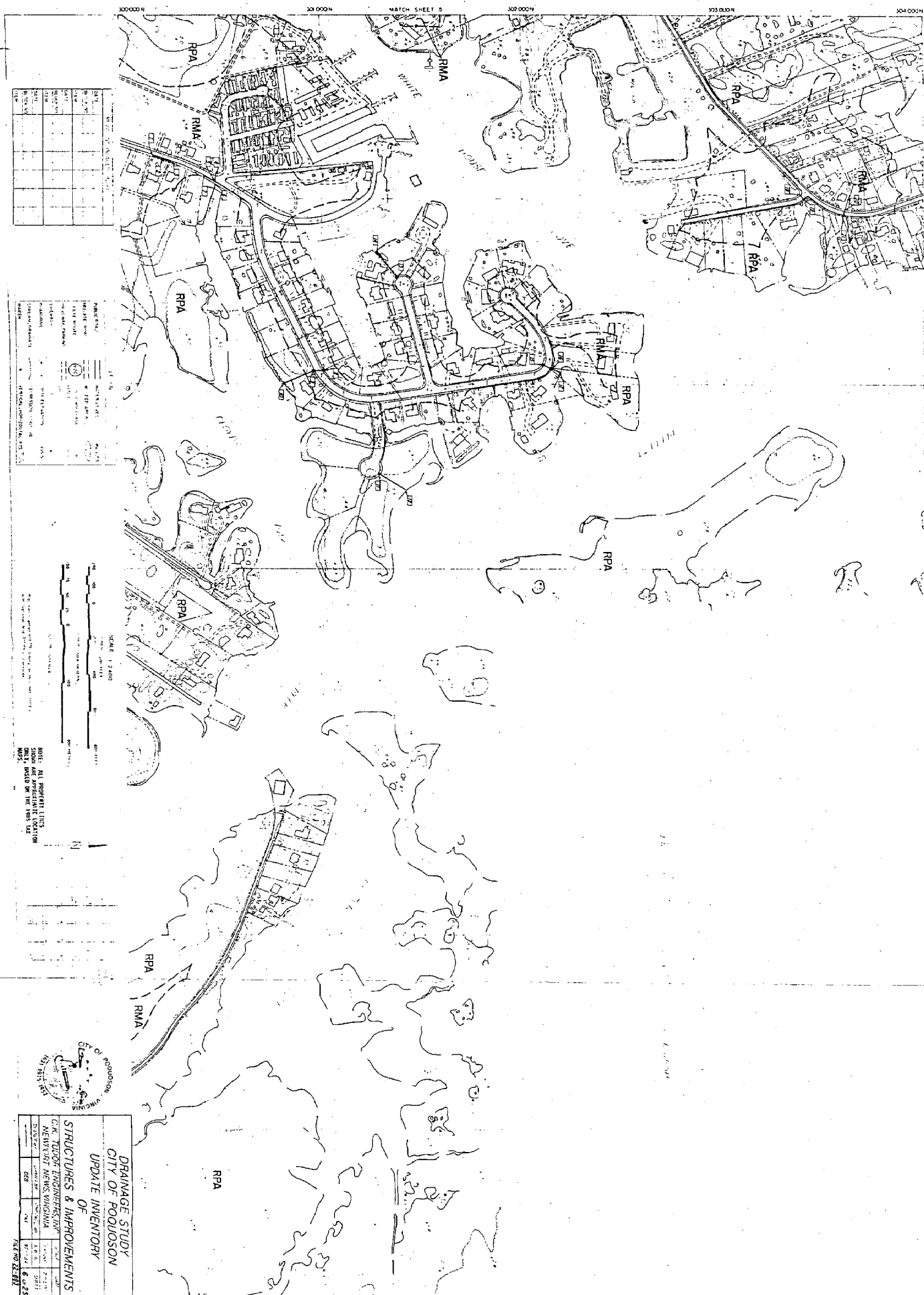


NOTE: ALL PROPERTY LINES
SHOWN ARE APPROXIMATE LOCATIONS
ONLY, BASED ON THE 1985 TAX
MAP.



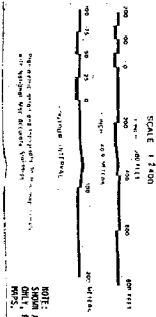
DRAINAGE STUDY CITY OF HOULISSON UPDATE INVENTORY OF STRUCTURES & IMPROVEMENTS	
DATE	11/11/11
BY	W. J. J.
CHECKED BY	W. J. J.
DATE	11/11/11
NO.	11/11/11
REV.	11/11/11





REVISIONS (DATE, BY, AND FOR)	
NO.	DESCRIPTION
1	ISSUED FOR PERMIT
2	ISSUED FOR PERMIT
3	ISSUED FOR PERMIT
4	ISSUED FOR PERMIT
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9	ISSUED FOR PERMIT
10	ISSUED FOR PERMIT

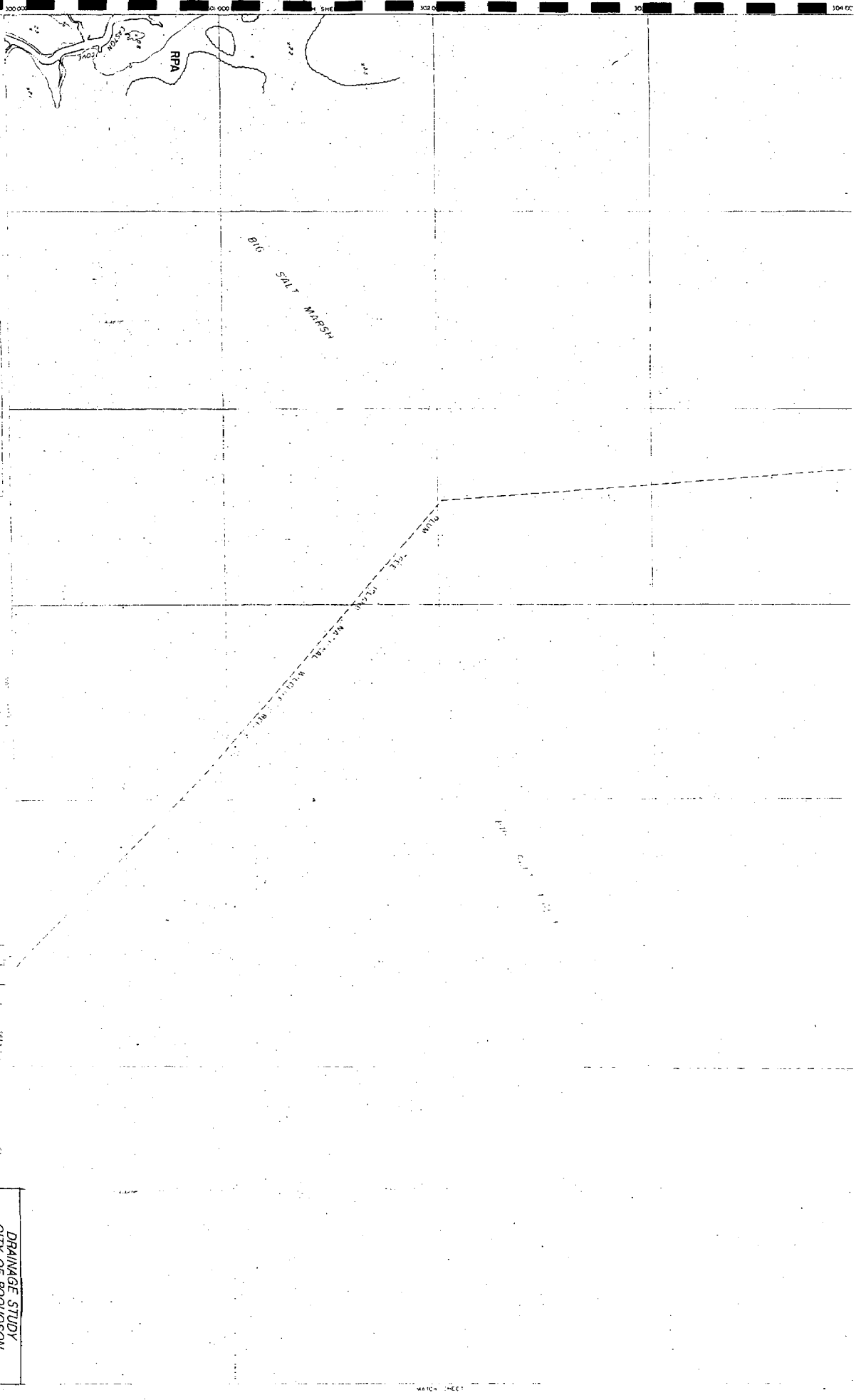
LEGEND	
EXISTING ROAD	WATER LEVEL
EXISTING DRAINAGE	PROPOSED ROAD
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING DRAINAGE	PROPOSED DRAINAGE



NOTE: ALL PROPOSED LINES
SHOWN ARE PROPOSED LOCATIONS
ONLY, BASED ON THE 1985 TAX
MAP.

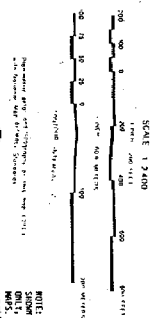


DRAINAGE STUDY CITY OF PORTSMOUTH UPDATE INVENTORY OF STRUCTURES & IMPROVEMENTS	
PROJECT NO.	7-259
DATE	7-259
DESIGNED BY	7-259
CHECKED BY	7-259
APPROVED BY	7-259
DATE	7-259



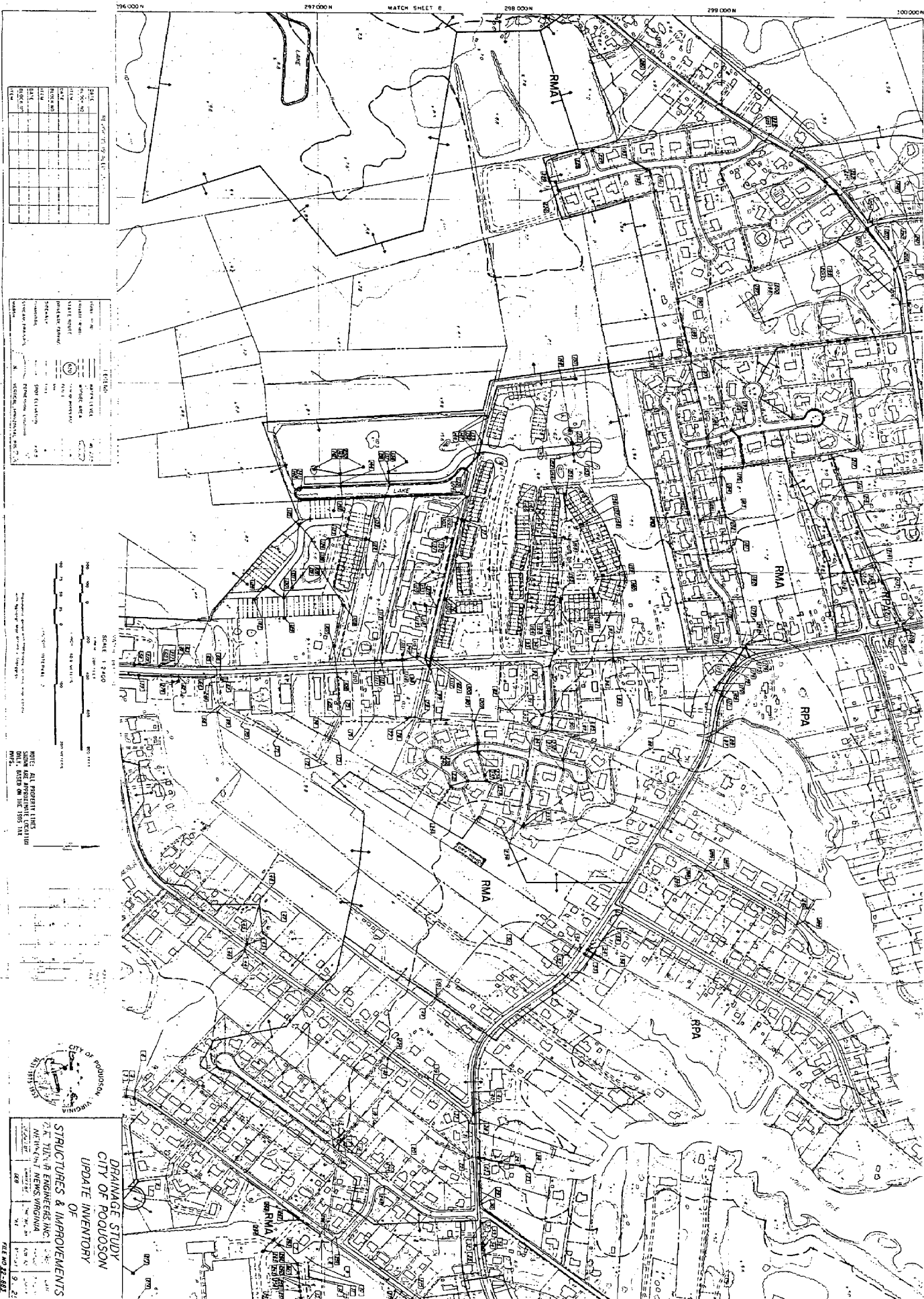
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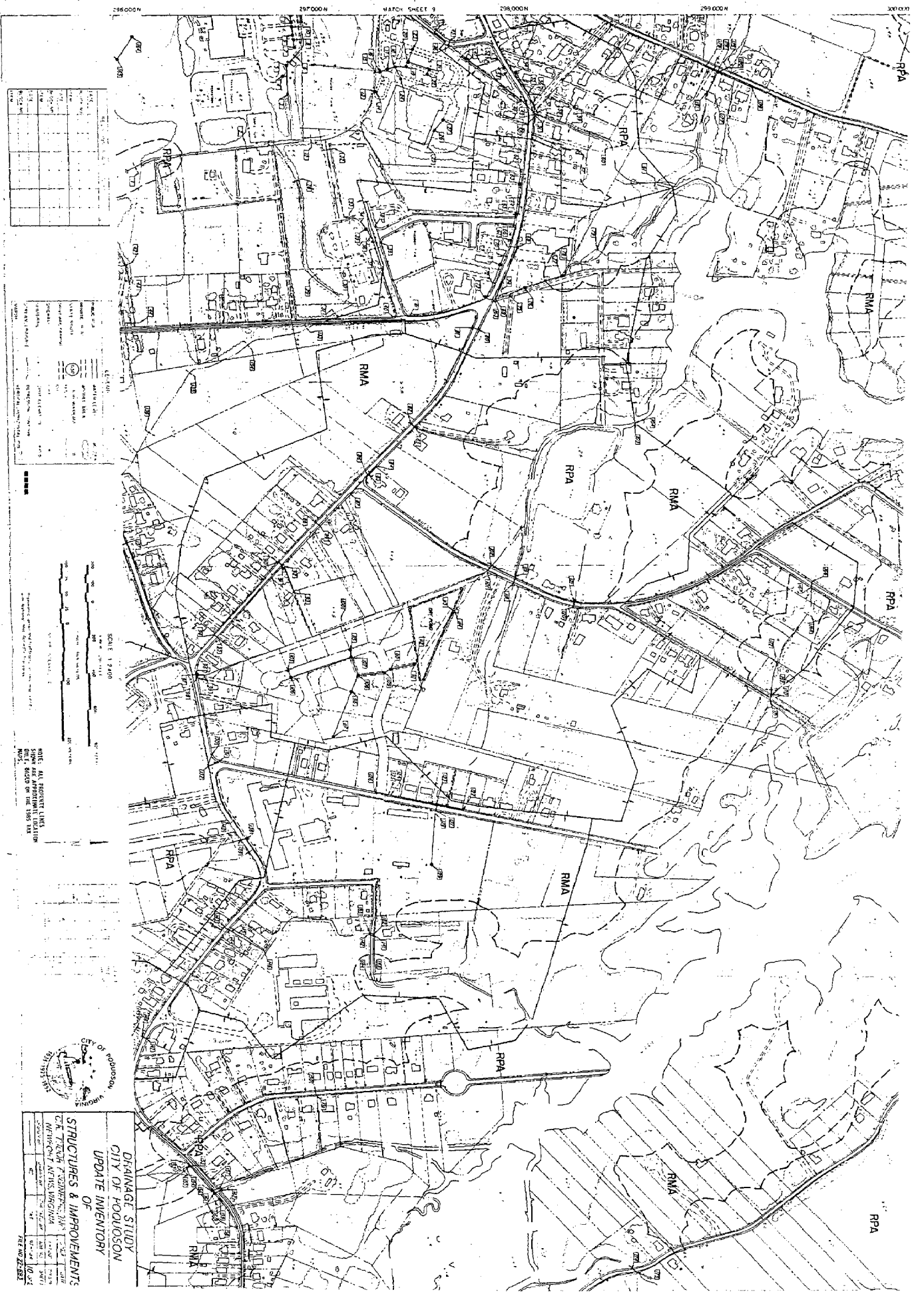
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97	97	97	97
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NOTE: ALL PROPERTY LINES SHOWN ARE APPROXIMATE LOCATION ONLY, BASED ON THE 1985 TAX MAPS.

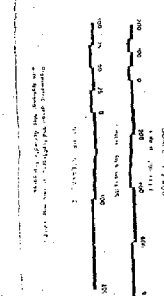
[illegible]





Symbol	Description
(Symbol)	1.0' DIA. MANHOLE
(Symbol)	2.0' DIA. MANHOLE
(Symbol)	3.0' DIA. MANHOLE
(Symbol)	4.0' DIA. MANHOLE
(Symbol)	5.0' DIA. MANHOLE
(Symbol)	6.0' DIA. MANHOLE
(Symbol)	7.0' DIA. MANHOLE
(Symbol)	8.0' DIA. MANHOLE
(Symbol)	9.0' DIA. MANHOLE
(Symbol)	10.0' DIA. MANHOLE
(Symbol)	11.0' DIA. MANHOLE
(Symbol)	12.0' DIA. MANHOLE
(Symbol)	13.0' DIA. MANHOLE
(Symbol)	14.0' DIA. MANHOLE
(Symbol)	15.0' DIA. MANHOLE
(Symbol)	16.0' DIA. MANHOLE
(Symbol)	17.0' DIA. MANHOLE
(Symbol)	18.0' DIA. MANHOLE
(Symbol)	19.0' DIA. MANHOLE
(Symbol)	20.0' DIA. MANHOLE

Symbol	Description
(Symbol)	1.0' DIA. MANHOLE
(Symbol)	2.0' DIA. MANHOLE
(Symbol)	3.0' DIA. MANHOLE
(Symbol)	4.0' DIA. MANHOLE
(Symbol)	5.0' DIA. MANHOLE
(Symbol)	6.0' DIA. MANHOLE
(Symbol)	7.0' DIA. MANHOLE
(Symbol)	8.0' DIA. MANHOLE
(Symbol)	9.0' DIA. MANHOLE
(Symbol)	10.0' DIA. MANHOLE
(Symbol)	11.0' DIA. MANHOLE
(Symbol)	12.0' DIA. MANHOLE
(Symbol)	13.0' DIA. MANHOLE
(Symbol)	14.0' DIA. MANHOLE
(Symbol)	15.0' DIA. MANHOLE
(Symbol)	16.0' DIA. MANHOLE
(Symbol)	17.0' DIA. MANHOLE
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(Symbol)	19.0' DIA. MANHOLE
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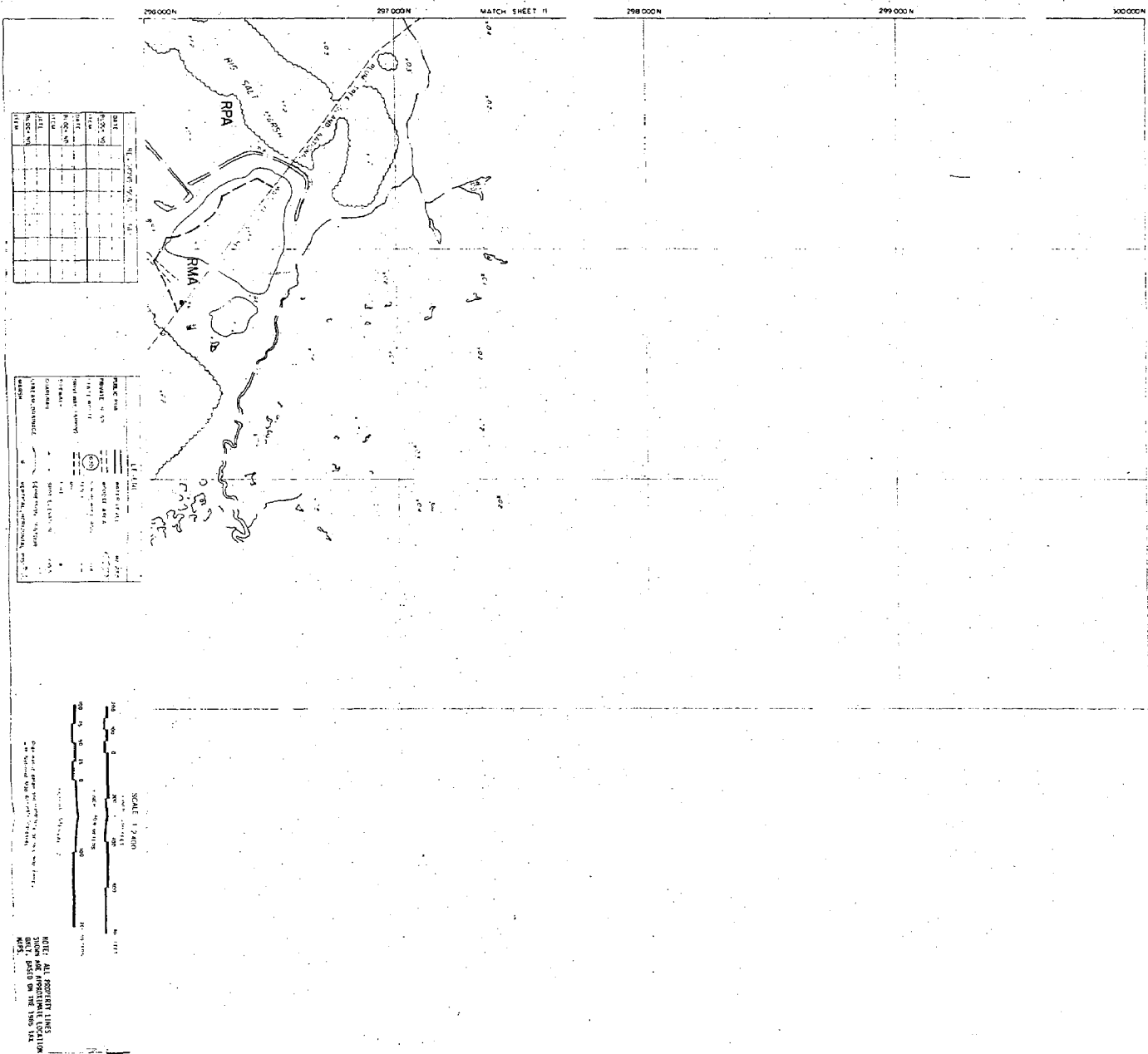


NOTE: ALL PROPERTY LINES
SHOWN ARE APPROXIMATE LOCATIONS
BASED ON THE 1985 TAX
MAP.



DRAINAGE STUDY CITY OF HOUSTON	
UPDATE INVENTORY OF STRUCTURES & IMPROVEMENTS	
NO.	DESCRIPTION
1	1.0' DIA. MANHOLE
2	2.0' DIA. MANHOLE
3	3.0' DIA. MANHOLE
4	4.0' DIA. MANHOLE
5	5.0' DIA. MANHOLE
6	6.0' DIA. MANHOLE
7	7.0' DIA. MANHOLE
8	8.0' DIA. MANHOLE
9	9.0' DIA. MANHOLE
10	10.0' DIA. MANHOLE
11	11.0' DIA. MANHOLE
12	12.0' DIA. MANHOLE
13	13.0' DIA. MANHOLE
14	14.0' DIA. MANHOLE
15	15.0' DIA. MANHOLE
16	16.0' DIA. MANHOLE
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18	18.0' DIA. MANHOLE
19	19.0' DIA. MANHOLE
20	20.0' DIA. MANHOLE

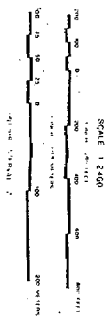
DRAINAGE STUDY
 CITY OF POOLSOON
 UPDATE INVENTORY
 OF
 STRUCTURES & IMPROVEMENTS
 C.R. TUDCH ENGINEERS, INC.
 NEWPORT NEWS, VIRGINIA
 PROJECT NO. 200-083



DATE	BY	REVISION
12-1-85	J.E.S.	1.0

DATE	REVISION	BY	CHK
10/1/00	1	WJ	WJ
10/1/00	2	WJ	WJ
10/1/00	3	WJ	WJ
10/1/00	4	WJ	WJ
10/1/00	5	WJ	WJ
10/1/00	6	WJ	WJ
10/1/00	7	WJ	WJ
10/1/00	8	WJ	WJ
10/1/00	9	WJ	WJ
10/1/00	10	WJ	WJ

PROJECT NO.	DATE	BY	CHK
10/1/00	10/1/00	WJ	WJ
10/1/00	10/1/00	WJ	WJ
10/1/00	10/1/00	WJ	WJ
10/1/00	10/1/00	WJ	WJ
10/1/00	10/1/00	WJ	WJ
10/1/00	10/1/00	WJ	WJ
10/1/00	10/1/00	WJ	WJ
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10/1/00	10/1/00	WJ	WJ

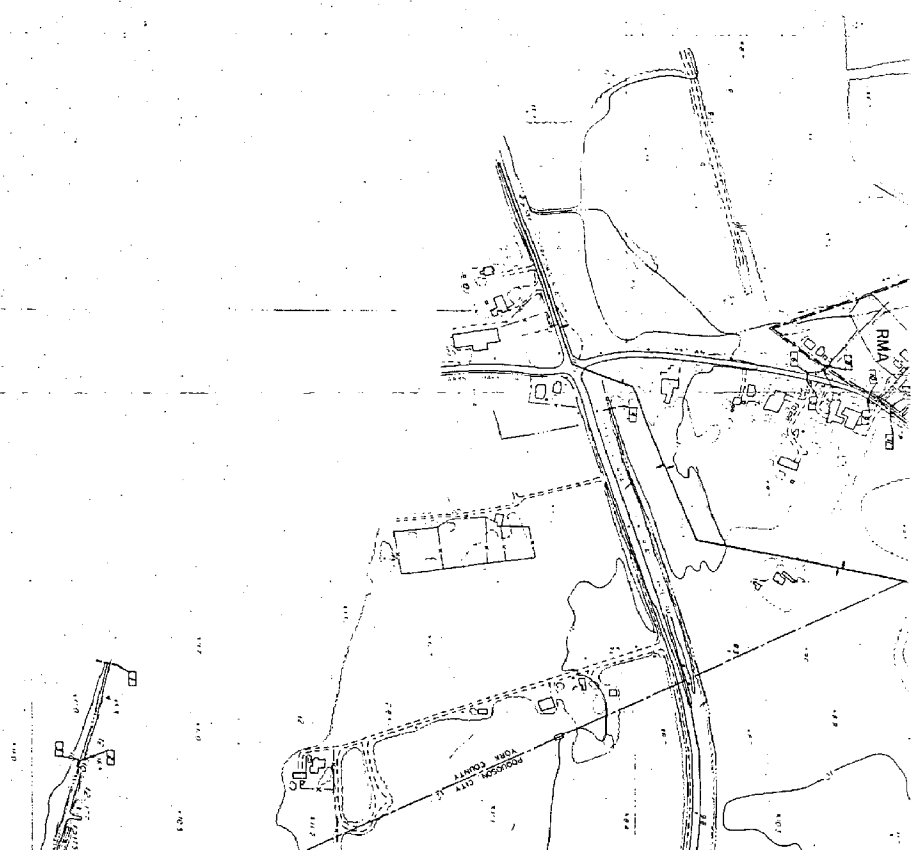


NOTE: ALL PROPERTY LINES SHOWN ARE APPROXIMATE. LOCATIONS SHOWN ON THIS MAP ARE BASED ON 1995 Aerial Photos.



DRAINAGE STUDY CITY OF ROANOKE			
UPDATE INVENTORY OF STRUCTURES & IMPROVEMENTS			
NO.	DESCRIPTION	DATE	BY
1	CK. TODOR ENGINEERS, INC.	5-1-00	WJ
2	NEWPORT NEWS VIRGINIA	1-1-00	WJ
3	ASBESTOS	1-1-00	WJ
4	ASBESTOS	1-1-00	WJ
5	ASBESTOS	1-1-00	WJ
6	ASBESTOS	1-1-00	WJ
7	ASBESTOS	1-1-00	WJ
8	ASBESTOS	1-1-00	WJ
9	ASBESTOS	1-1-00	WJ
10	ASBESTOS	1-1-00	WJ

DATE: 10/1/00

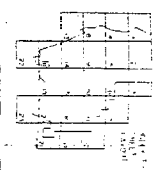
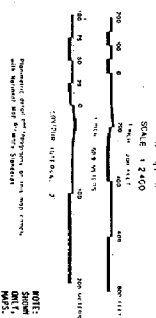


REVISIONS TO SHEET 13

NO.	DATE	DESCRIPTION
1	10/11/11	Initial Design
2	11/11/11	Revised Design
3	12/11/11	Final Design
4	01/12/12	As-Built
5	02/12/12	As-Built
6	03/12/12	As-Built
7	04/12/12	As-Built
8	05/12/12	As-Built
9	06/12/12	As-Built
10	07/12/12	As-Built
11	08/12/12	As-Built
12	09/12/12	As-Built

PROJECT INFORMATION

PROJECT NO.	11-11-11
PROJECT NAME	DRAINAGE STUDY
PROJECT LOCATION	CITY OF FOLLOUSON
PROJECT OWNER	CITY OF FOLLOUSON
PROJECT ENGINEER	OX TUDOR ENGINEERING, INC.
PROJECT DATE	10/11/11
PROJECT STATUS	Final Design
PROJECT BUDGET	\$100,000
PROJECT FUNDING	City of Follomson
PROJECT CONTACT	John Doe
PROJECT PHONE	555-555-5555
PROJECT FAX	555-555-5555
PROJECT EMAIL	john.doe@cityoffollomson.com



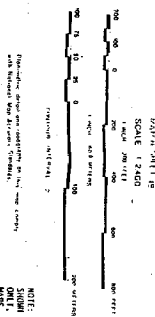
DRAINAGE STUDY
CITY OF FOLLOUSON
UPDATE INVENTORY
OF
STRUCTURES & IMPROVEMENTS

NO.	DATE	DESCRIPTION
1	10/11/11	Initial Design
2	11/11/11	Revised Design
3	12/11/11	Final Design
4	01/12/12	As-Built
5	02/12/12	As-Built
6	03/12/12	As-Built
7	04/12/12	As-Built
8	05/12/12	As-Built
9	06/12/12	As-Built
10	07/12/12	As-Built
11	08/12/12	As-Built
12	09/12/12	As-Built

OX TUDOR ENGINEERING, INC.
NEWPORT NEWS, VIRGINIA
703.222.2222
7/21/12

DATE	DESCRIPTION	BY	CHKD

DATE	DESCRIPTION	BY	CHKD

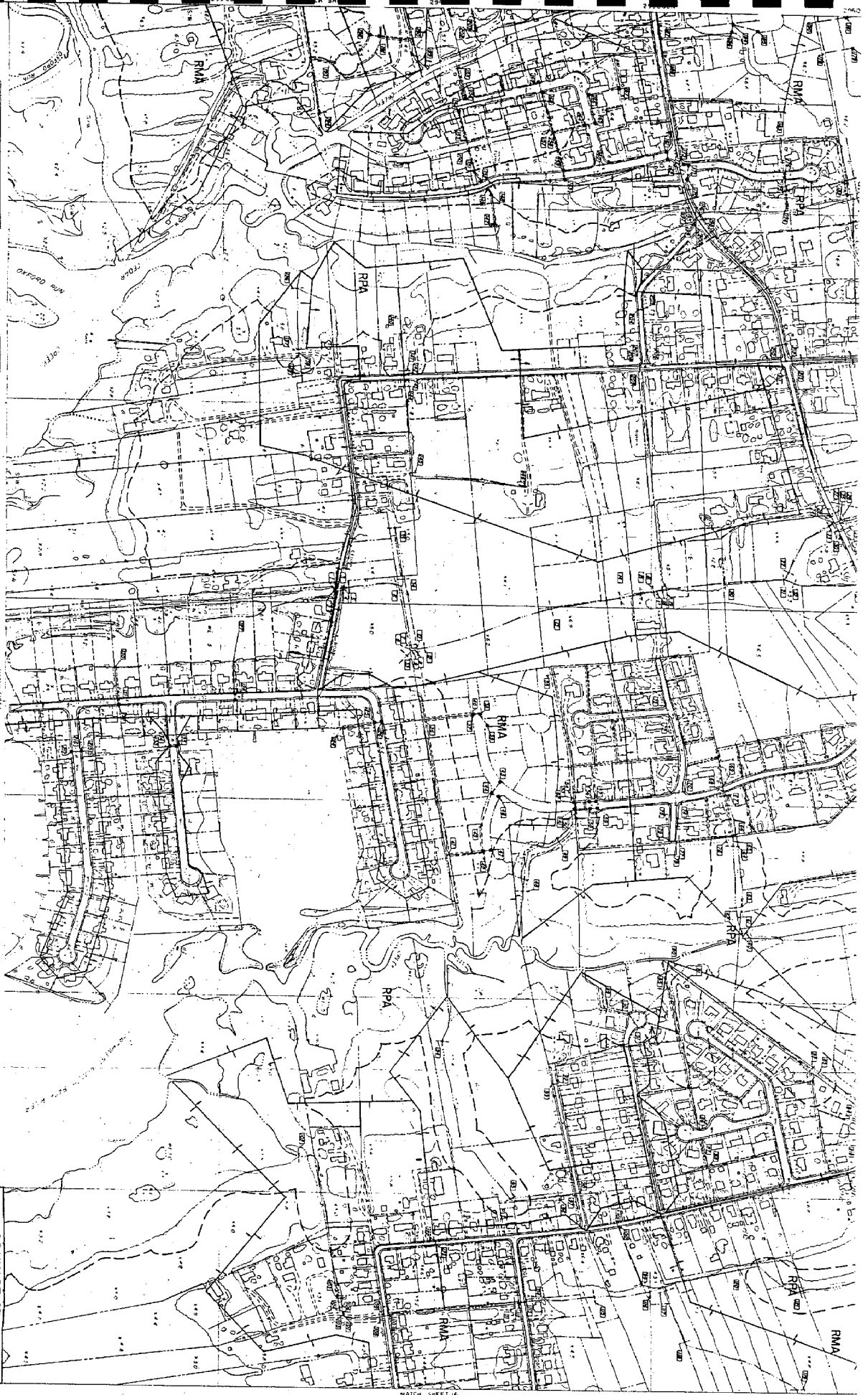


NOTE: ALL PROPERTY LINES
SHOWN ARE A PRELIMINARY LOCATION
BASED ON THE 1985 TAX
MAPS.



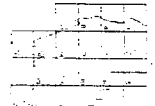
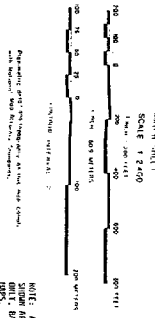
DATE	DESCRIPTION	BY	CHKD

DRAINAGE STUDY
CITY OF POPLACION
UPDATE INVENTORY
OF
STRUCTURES & IMPROVEMENTS
C.R. TUDOR ENGINEERS INC. SINC. LITE
NEWPORT NEWS, VIRGINIA 23601
DATE: 10/15/85 BY: J.E.S.



DATE	BY	REVISION	DESCRIPTION
11-11-83	WJ	1	INITIAL DRAINAGE STUDY
11-11-83	WJ	2	REVISION TO SHEET 1
11-11-83	WJ	3	REVISION TO SHEET 1
11-11-83	WJ	4	REVISION TO SHEET 1
11-11-83	WJ	5	REVISION TO SHEET 1
11-11-83	WJ	6	REVISION TO SHEET 1
11-11-83	WJ	7	REVISION TO SHEET 1
11-11-83	WJ	8	REVISION TO SHEET 1
11-11-83	WJ	9	REVISION TO SHEET 1
11-11-83	WJ	10	REVISION TO SHEET 1

DATE	BY	REVISION	DESCRIPTION
11-11-83	WJ	1	INITIAL DRAINAGE STUDY
11-11-83	WJ	2	REVISION TO SHEET 1
11-11-83	WJ	3	REVISION TO SHEET 1
11-11-83	WJ	4	REVISION TO SHEET 1
11-11-83	WJ	5	REVISION TO SHEET 1
11-11-83	WJ	6	REVISION TO SHEET 1
11-11-83	WJ	7	REVISION TO SHEET 1
11-11-83	WJ	8	REVISION TO SHEET 1
11-11-83	WJ	9	REVISION TO SHEET 1
11-11-83	WJ	10	REVISION TO SHEET 1



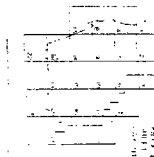
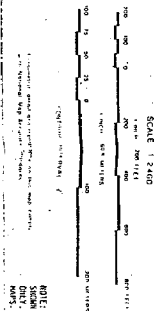
**DRAINAGE STUDY
CITY OF ROCUSSON
UPDATE INVENTORY
OF
STRUCTURES & IMPROVEMENTS**

CKR TODD ENGINEERS, INC.
NEWPORT NEWS, VIRGINIA

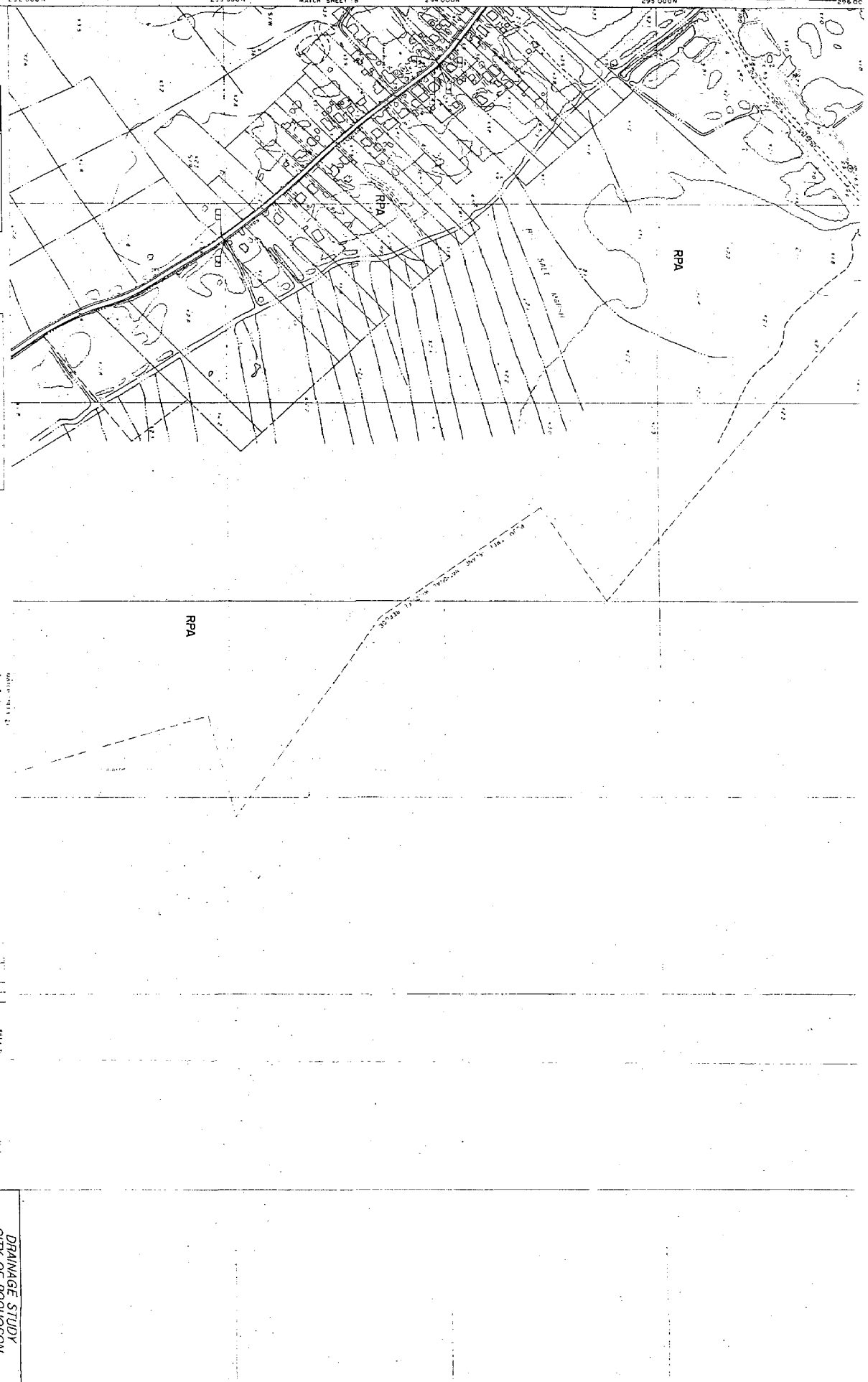
DESIGN	DATE	BY	CHECKED	DATE
11-11-83	11-11-83	WJ	WJ	11-11-83

11-11-83



[illegible]

DRAINAGE STUDY CITY OF POQUOSON UPDATE INVENTORY OF STRUCTURES & IMPROVEMENTS			
C.R. TUDOR ENGINEERS, INC. NEWPORT NEWS, VIRGINIA		25' x 25'	25' x 25'
42 SOUTH ST.	FRANKLIN DR.	10' x 10'	75' x 50'
_____	_____	20' x 15'	17' x 23'
DE 6	CR 1	5' x 14'	17' x 23'
FILE NO. 22-551			

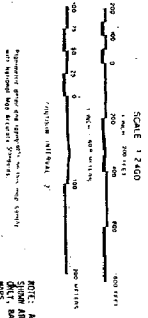


REVISIONS SCALE 1:2400

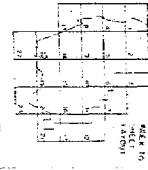
DATE	BY	REVISION
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10/1/81	CK	2. Final Project
10/1/81	CK	3. Final Project
10/1/81	CK	4. Final Project
10/1/81	CK	5. Final Project
10/1/81	CK	6. Final Project
10/1/81	CK	7. Final Project
10/1/81	CK	8. Final Project
10/1/81	CK	9. Final Project
10/1/81	CK	10. Final Project

LEGEND

Symbol	Description
(Symbol)	Water
(Symbol)	Proposed
(Symbol)	Existing
(Symbol)	Proposed
(Symbol)	Existing
(Symbol)	Proposed
(Symbol)	Existing
(Symbol)	Proposed
(Symbol)	Existing
(Symbol)	Proposed
(Symbol)	Existing



NOTE: ALL PROPERTY LINES
SHOWN ARE BASED ON THE 1985 TAX
MAP.



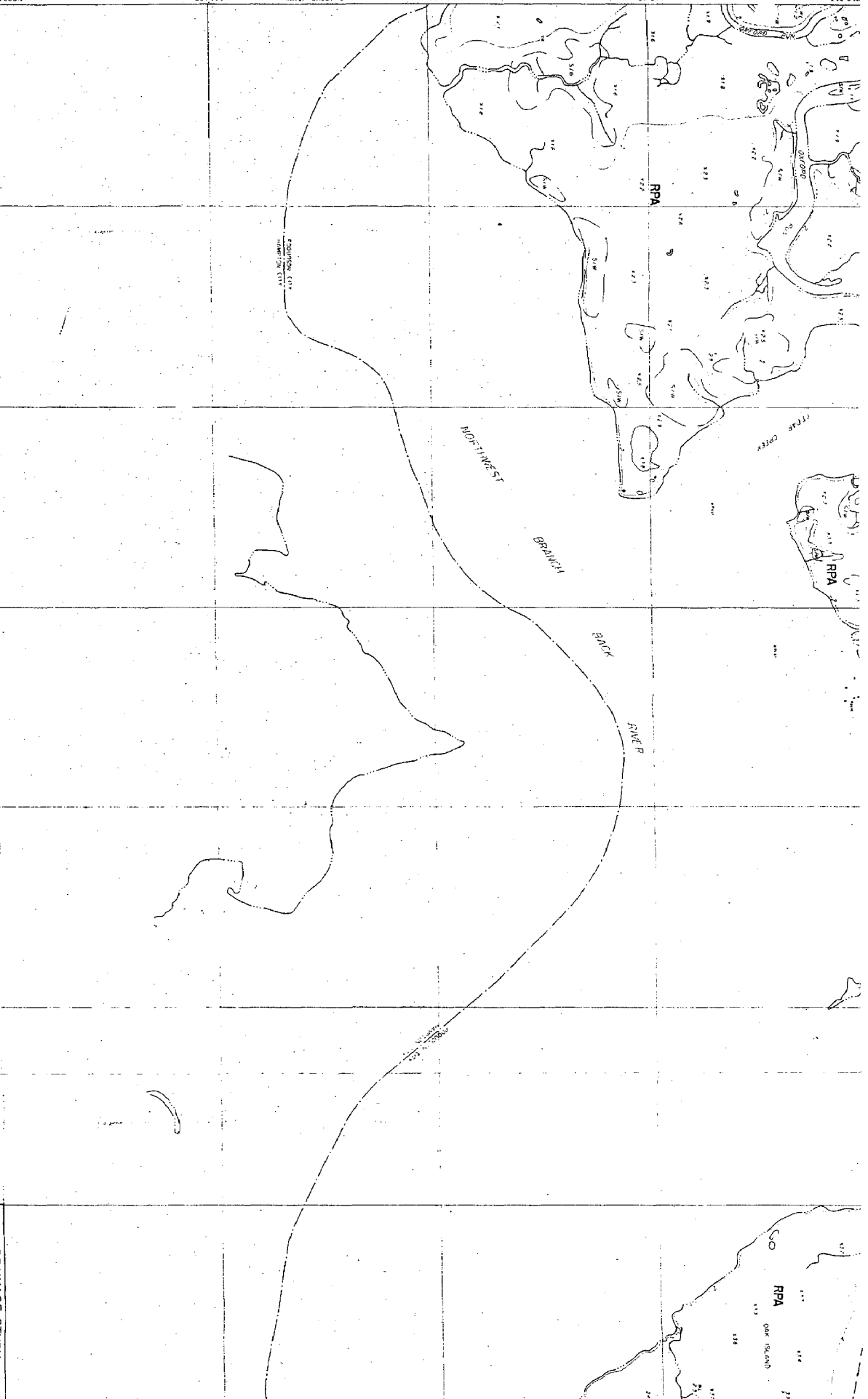
**DRAINAGE STUDY
CITY OF POQUOSON
UPDATE INVENTORY
OF
STRUCTURES & IMPROVEMENTS**

CK TUDOR ENGINEERS INC. 1-574-2577

NEWPORT NEWS, VIRGINIA 23606

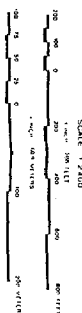
DATE: 10/1/81

FILE NO. 87-281



[illegible]

DATE	10/10/1964	TIME	10:00
NAME	JOHN J. ROY	AGE	34
SEX	M	HEIGHT	5'10"
WEIGHT	170	HAIR	BROWN
EYES	BROWN	SKIN	Fair
DOB	10/10/1930	POB	NEW YORK, N.Y.
SSN	1-23-456789	EDUCATION	High School
EMPLOYMENT	Self-employed	RELIGION	Catholic
RESIDENCE	123 Main St, New York, N.Y.	TELEPHONE	NY 1-234-5678
VEHICLE	1964 Ford Mustang	PLATE	NY 123456
REMARKS	Subject is a male, white, 34 years old, 5'10" tall, 170 lbs. He is a self-employed individual, currently working as a freelance writer. He has a high school diploma and is a Catholic. He resides at 123 Main St, New York, N.Y. He is the owner of a 1964 Ford Mustang with New York license plate NY 123456. He was born on 10/10/1930 in New York, N.Y. His Social Security Number is 1-23-456789.		



NOTE: ALL PROPERTY LINES SHOWN ARE APPROXIMATE LOCATION ONLY, BASED ON THE 1985 TAX MAPS.

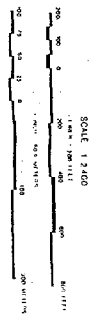


DRAINAGE STUDY CITY OF POOLUSON UPDATE INVENTORY OF STRUCTURES & IMPROVEMENTS			
C. K. TUDOR ENGINEERS, INC.			
NEWPORT NEWS, VIRGINIA			
DATE: 1/27/80	PROJECT NO. 1-2-80	SHEET NO. 1	
DESIGNED BY: C. K. TUDOR	CHECKED BY: C. K. TUDOR	DATE: 1/27/80	
DATE: 1/27/80	BY: C. K. TUDOR	SHEET NO. 1	
THE NO. 22-0001			

FILE NO 22-883

[illegible]

DATE	11/1/80	BY	205
CHIEF, BUDG.	_____	ADJUTANT GEN.	_____
CHIEF, MGMT.	_____	CHIEF, SEC. 5	_____
CHIEF, PLANT	_____	CHIEF, SEC. 6	_____
CHIEF, ENGRG.	_____	CHIEF, SEC. 7	_____
CHIEF, MAINT.	_____	CHIEF, SEC. 8	_____
CHIEF, LOG.	_____	CHIEF, SEC. 9	_____
CHIEF, COMM.	_____	CHIEF, SEC. 10	_____
CHIEF, INSP.	_____	CHIEF, SEC. 11	_____
CHIEF, ADJ.	_____	CHIEF, SEC. 12	_____
CHIEF, SEC. 1	_____	CHIEF, SEC. 13	_____
CHIEF, SEC. 2	_____	CHIEF, SEC. 14	_____
CHIEF, SEC. 3	_____	CHIEF, SEC. 15	_____
CHIEF, SEC. 4	_____	CHIEF, SEC. 16	_____
CHIEF, SEC. 17	_____	CHIEF, SEC. 18	_____
CHIEF, SEC. 19	_____	CHIEF, SEC. 20	_____
CHIEF, SEC. 21	_____	CHIEF, SEC. 22	_____
CHIEF, SEC. 23	_____	CHIEF, SEC. 24	_____
CHIEF, SEC. 25	_____	CHIEF, SEC. 26	_____
CHIEF, SEC. 27	_____	CHIEF, SEC. 28	_____
CHIEF, SEC. 29	_____	CHIEF, SEC. 30	_____
CHIEF, SEC. 31	_____	CHIEF, SEC. 32	_____
CHIEF, SEC. 33	_____	CHIEF, SEC. 34	_____
CHIEF, SEC. 35	_____	CHIEF, SEC. 36	_____
CHIEF, SEC. 37	_____	CHIEF, SEC. 38	_____
CHIEF, SEC. 39	_____	CHIEF, SEC. 40	_____
CHIEF, SEC. 41	_____	CHIEF, SEC. 42	_____
CHIEF, SEC. 43	_____	CHIEF, SEC. 44	_____
CHIEF, SEC. 45	_____	CHIEF, SEC. 46	_____
CHIEF, SEC. 47	_____	CHIEF, SEC. 48	_____
CHIEF, SEC. 49	_____	CHIEF, SEC. 50	_____
CHIEF, SEC. 51	_____	CHIEF, SEC. 52	_____
CHIEF, SEC. 53	_____	CHIEF, SEC. 54	_____
CHIEF, SEC. 55	_____	CHIEF, SEC. 56	_____
CHIEF, SEC. 57	_____	CHIEF, SEC. 58	_____
CHIEF, SEC. 59	_____	CHIEF, SEC. 60	_____
CHIEF, SEC. 61	_____	CHIEF, SEC. 62	_____
CHIEF, SEC. 63	_____	CHIEF, SEC. 64	_____
CHIEF, SEC. 65	_____	CHIEF, SEC. 66	_____
CHIEF, SEC. 67	_____	CHIEF, SEC. 68	_____
CHIEF, SEC. 69	_____	CHIEF, SEC. 70	_____
CHIEF, SEC. 71	_____	CHIEF, SEC. 72	_____
CHIEF, SEC. 73	_____	CHIEF, SEC. 74	_____
CHIEF, SEC. 75	_____	CHIEF, SEC. 76	_____
CHIEF, SEC. 77	_____	CHIEF, SEC. 78	_____
CHIEF, SEC. 79	_____	CHIEF, SEC. 80	_____
CHIEF, SEC. 81	_____	CHIEF, SEC. 82	_____
CHIEF, SEC. 83	_____	CHIEF, SEC. 84	_____
CHIEF, SEC. 85	_____	CHIEF, SEC. 86	_____
CHIEF, SEC. 87	_____	CHIEF, SEC. 88	_____
CHIEF, SEC. 89	_____	CHIEF, SEC. 90	_____
CHIEF, SEC. 91	_____	CHIEF, SEC. 92	_____
CHIEF, SEC. 93	_____	CHIEF, SEC. 94	_____
CHIEF, SEC. 95	_____	CHIEF, SEC. 96	_____
CHIEF, SEC. 97	_____	CHIEF, SEC. 98	_____
CHIEF, SEC. 99	_____	CHIEF, SEC. 100	_____



Ergebnisse zeigen, daß es notwendig ist, auch weiter mit Neutronen 440 bis 460 bis.

NOTE: ALL PROPERTY LINES
SHOWN ARE APPROXIMATE LOCATIONS
ONLY, BASED ON THE 1995 TAX
MAPS.



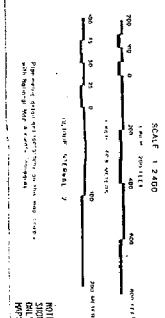
**DRAINAGE STUDY
CITY OF POQUOSON
UPDATE INVENTORY
OF
STRUCTURES & IMPROVEMENTS**

C.K. TODD ENGINEERS, INC.
NEWPORT NEWS, VIRGINIA

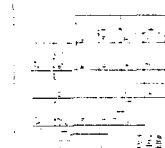
NO.	DATE	BY	CHKD.	DATE	BY
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2	10-1-82	W.D.	W.D.	10-1-82	W.D.
3	10-1-82	W.D.	W.D.	10-1-82	W.D.
4	10-1-82	W.D.	W.D.	10-1-82	W.D.
5	10-1-82	W.D.	W.D.	10-1-82	W.D.
6	10-1-82	W.D.	W.D.	10-1-82	W.D.
7	10-1-82	W.D.	W.D.	10-1-82	W.D.
8	10-1-82	W.D.	W.D.	10-1-82	W.D.
9	10-1-82	W.D.	W.D.	10-1-82	W.D.
10	10-1-82	W.D.	W.D.	10-1-82	W.D.
11	10-1-82	W.D.	W.D.	10-1-82	W.D.
12	10-1-82	W.D.	W.D.	10-1-82	W.D.
13	10-1-82	W.D.	W.D.	10-1-82	W.D.
14	10-1-82	W.D.	W.D.	10-1-82	W.D.
15	10-1-82	W.D.	W.D.	10-1-82	W.D.
16	10-1-82	W.D.	W.D.	10-1-82	W.D.
17	10-1-82	W.D.	W.D.	10-1-82	W.D.
18	10-1-82	W.D.	W.D.	10-1-82	W.D.
19	10-1-82	W.D.	W.D.	10-1-82	W.D.
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22	10-1-82	W.D.	W.D.	10-1-82	W.D.
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29	10-1-82	W.D.	W.D.	10-1-82	W.D.
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31	10-1-82	W.D.	W.D.	10-1-82	W.D.
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34	10-1-82	W.D.	W.D.	10-1-82	W.D.
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37	10-1-82	W.D.	W.D.	10-1-82	W.D.
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39	10-1-82	W.D.	W.D.	10-1-82	W.D.
40	10-1-82	W.D.	W.D.	10-1-82	W.D.
41	10-1-82	W.D.	W.D.	10-1-82	W.D.
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45	10-1-82	W.D.	W.D.	10-1-82	W.D.
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54	10-1-82	W.D.	W.D.	10-1-82	W.D.
55	10-1-82	W.D.	W.D.	10-1-82	W.D.
56	10-1-82	W.D.	W.D.	10-1-82	W.D.
57	10-1-82	W.D.	W.D.	10-1-82	W.D.
58	10-1-82	W.D.	W.D.	10-1-82	W.D.
59	10-1-82	W.D.	W.D.	10-1-82	W.D.
60	10-1-82	W.D.	W.D.	10-1-82	W.D.
61	10-1-82	W.D.	W.D.	10-1-82	W.D.

DATE	BY	CHKD	APP'D
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		
10/1/81	J. L. Smith		

Project No. 100-1000
 Date: 10/1/81
 Scale: 1" = 100'
 Project Engineer: J. L. Smith
 Project Manager: J. L. Smith
 Project Location: 100-1000
 Project Description: 100-1000
 Project Status: 100-1000
 Project Notes: 100-1000



NOTES: ALL PROPERTY LINES
 SHOWN ARE BASED ON THE 1985 A.T.
 DATA.



DRAINAGE STUDY
 CITY OF PETERSBURG
 UPDATE INVENTORY
 OF
 STRUCTURES & IMPROVEMENTS
 C.R. TUDOR ENGINEERING, INC.
 NEWPORT NEWS, VIRGINIA
 DATE: 10/1/81
 BY: J. L. Smith
 CHECKED: J. L. Smith
 APPROVED: J. L. Smith
 FILE NO. 100-1000

