

# Sea Level Rise Scenarios Affecting Roads

City of Providence

Map Created: 8/11/2016

**Map Legend**

NOTES:  
 The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 Includes Hillshade from USGS 2011 LiDAR

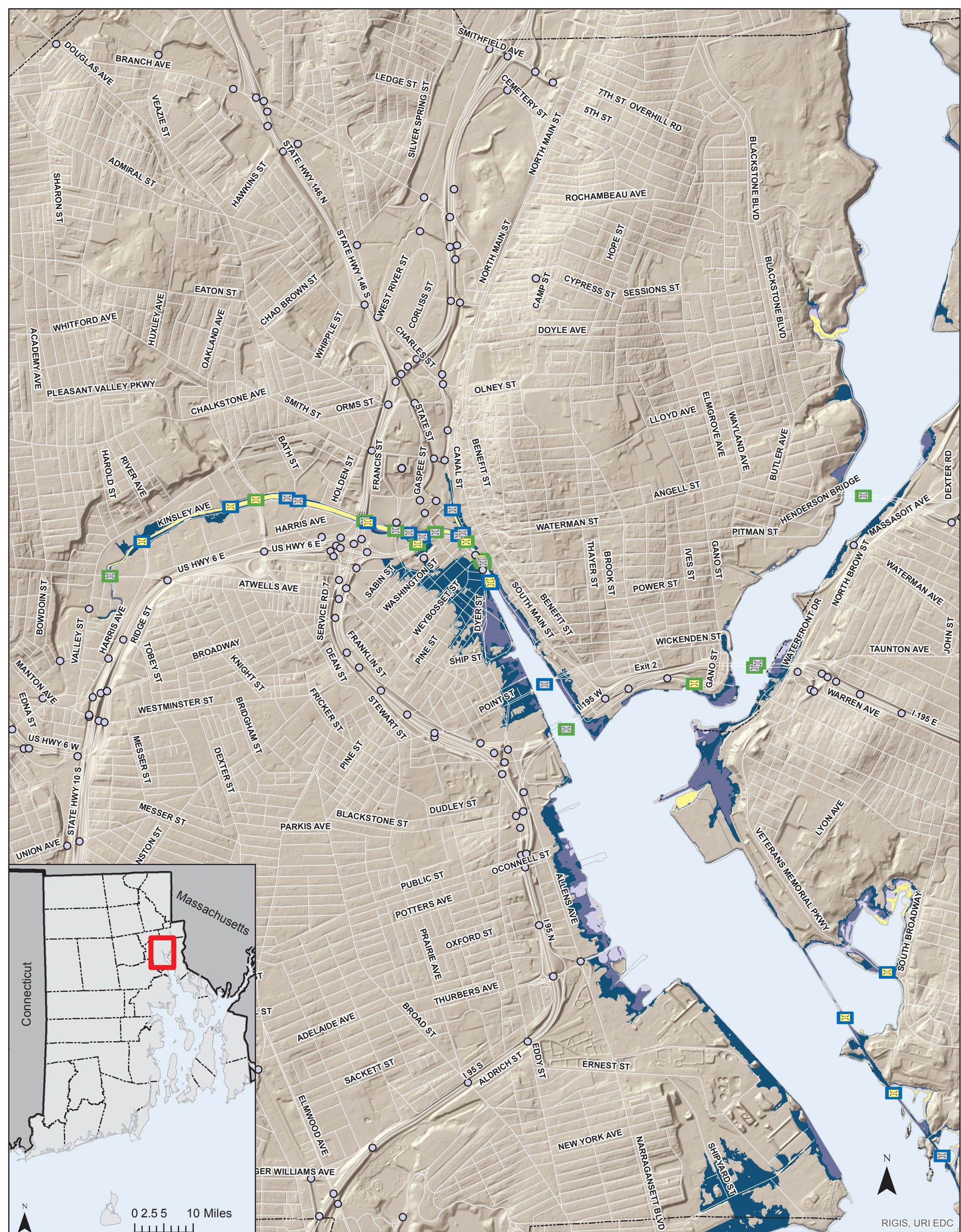
- Current Mean Higher High Water
- 1Ft Sea Level Rise
- 3Ft Sea Level Rise
- 5Ft Sea Level Rise
- 7Ft Sea Level Rise
- City and Town Boundaries
- Potentially Affected Roads
- Roads

0 0.125 0.25 0.5 Miles

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Relative Road Vulnerability to Sea Level Rise													
Providence			Linear Feet of Road Inundated At:										
Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
1	19	I 95 N	85	17	20	41	163	2.54	No	Yes	Interstate	4.00	6.54
2	20	I 95 S	85	20	31	40	176	2.47	No	Yes	Interstate	4.00	6.47
3	21	CANAL ST				1,244	1,244	3.19	No	Yes	Principal Art.	3.24	6.43
4	24	STEEPLE ST	120	11	6	170	306	2.87	No	Yes	Principal Art.	3.40	6.27
5	25	ON RAMP I-95 N	166	20	30	50	265	2.75	No	Yes	Interstate	3.50	6.25
6	26	DORRANCE ST			660	1,640	2,300	2.97	No	Yes	Minor Art.	3.25	6.22
7	27	DEAN ST	186	14	9	15	224	4.42	No	No	Minor Art.	1.80	6.22
8	31	KINSLEY AVE				2,795	2,795	4.15	No	Yes	Major Coll.	2.02	6.17
9	40	POINT ST		0	4	1,495	1,499	3.49	No	No	Principal Art.	2.40	5.89
10	43	EXIT 22	85	5	11	28	129	2.81	No	No	Interstate	3.00	5.81
11	45	GULF ST			2,456	748	3,204	4.18	No	Yes	Local	1.60	5.78
12	54	PINE ST			24	1,170	1,194	3.41	Yes	No	Major Coll.	2.18	5.59
13	55	PARK ST	76	10	7	29	122	2.75	No	Yes	Minor Art.	2.80	5.55
14	69	WASHINGTON ST	108	4	5	580	697	2.04	No	Yes	Minor Art.	3.40	5.44
15	72	UNNAMED_4	101	7	7	52	166	3.63	No	No	Minor Art.	1.80	5.43
16	74	COLLEGE ST	78	4	7	3	92	3.21	No	Yes	Major Coll.	2.13	5.33
17	75	SABIN ST				205	205	1.50	Yes	Yes	Minor Art.	3.80	5.30
18	77	DYER ST			1,414	667	2,081	2.65	No	Yes	Principal Art.	2.63	5.28
19	94	SOUTH WATER ST	21	8	2,246	476	2,751	3.15	No	No	Major Coll.	1.95	5.09
20	98	I 195 W	25	40	29	56	149	1.72	No	Yes	Interstate	3.32	5.04
21	102	I 195 E	24	49	28	76	177	1.69	No	Yes	Interstate	3.29	4.98
22	123	EXCHANGE TER				259	259	1.50	Yes	Yes	Major Coll.	3.30	4.80
23	130	FRANCIS ST	89	7	10	319	424	1.92	No	Yes	Minor Art.	2.80	4.72
24	133	PROMENADE ST			21	1,426	1,446	1.50	No	Yes	Major Coll.	3.19	4.69
25	147	EXIT 19				3	3	1.50	No	No	Interstate	3.00	4.50
26	148	EXIT 20				2	2	1.50	No	No	Interstate	3.00	4.50
27	149	EXIT 3	3	3	3	7	17	1.50	No	No	Interstate	3.00	4.50
28	150	ON RAMP I-95 S	2	8	11	14	35	1.50	No	No	Interstate	3.00	4.50
29	155	UNNAMED_5	101	3	4	47	156	3.77	No	No	Local	0.60	4.37
30	157	EXCHANGE ST	78	7	7	426	518	1.80	No	Yes	Major Coll.	2.57	4.37
31	160	MEMORIAL BLVD		40	41	701	782	1.50	No	Yes	Minor Art.	2.83	4.33
32	169	HENDERSON BRIDGE	7	16	20	20	62	1.50	No	Yes	Minor Art.	2.80	4.30
33	170	ATWELLS AVE		33	10	10	53	1.50	Yes	No	Minor Art.	2.80	4.30
34	184	WEYBOSSET ST				1,085	1,085	1.50	No	Yes	Minor Art.	2.68	4.18
35	215	ACORN ST	58	6	4	70	138	2.34	No	Yes	Major Coll.	1.69	4.03
36	249	EDDY ST				3,542	3,542	2.19	No	No	Major Coll.	1.66	3.85
37	280	HEMLOCK ST				282	282	1.50	Yes	No	Major Coll.	2.20	3.70
38	281	KENNEDY PLZ				879	879	1.50	No	Yes	Major Coll.	2.20	3.70
39	282	PARK ROW		47		110	157	1.50	No	Yes	Major Coll.	2.20	3.70
40	286	EAGLE ST	62	1	8	261	332	1.87	No	Yes	Minor Art.	1.83	3.70
41	301	HARBORSIDE BLVD				1,824	1,824	2.77	No	No	Minor Coll.	0.82	3.59
42	309	FRIENDSHIP ST			569	758	1,327	2.36	No	No	Major Coll.	1.20	3.56
43	323	FOUNTAIN ST				516	516	1.50	No	Yes	Major Coll.	2.01	3.51
44	326	RICHMOND ST				474	474	1.50	No	Yes	Major Coll.	2.00	3.50
45	396	WESTMINSTER ST				1,225	1,225	1.50	No	No	Major Coll.	1.66	3.16
46	419	COOKSON PL				48	48	1.50	No	Yes	Local	1.60	3.10
47	420	PLANET ST			42	33	75	1.50	No	Yes	Local	1.60	3.10
48	421	POWER ST			61	32	92	1.50	No	Yes	Local	1.60	3.10
49	422	RATHBONE ST				43	43	1.50	No	Yes	Local	1.60	3.10
50	423	WILLIAMS ST			59	37	96	1.50	No	Yes	Local	1.60	3.10
51	429	CLIFFORD ST			525	560	1,085	2.47	No	No	Local	0.60	3.07
52	461	BRIDGE ST	4		4	585	592	1.50	No	No	Major Coll.	1.40	2.90
53	463	SOUTH MAIN ST				112	112	1.50	No	Yes	Minor Coll.	1.37	2.87
54	475	WEST EXCHANGE ST				376	376	1.50	No	Yes	Local	1.25	2.75
55	500	SHIPYARD ST				650	650	1.50	No	No	Major Coll.	1.20	2.70
56	528	SOUTH ST		131	232	218	581	1.95	No	No	Local	0.60	2.55
57	544	INDIA ST			187	260	448	1.50	No	No	Local	0.64	2.14
58	998	ACCESS RD			26		26	1.50	No	No	Local	0.60	2.10
59	999	ANGELL ST			15	20	35	1.50	No	No	Local	0.60	2.10
60	1,000	ARCADE ST				261	261	1.50	No	No	Local	0.60	2.10
61	1,001	CUSTOM HOUSE ST				388	388	1.50	No	No	Local	0.60	2.10
62	1,002	DAVOL SQUARE				205	205	1.50	No	No	Local	0.60	2.10
63	1,003	DELTA ST				263	263	1.50	No	No	Local	0.60	2.10
64	1,004	EAST HALL				243	243	1.50	No	No	Local	0.60	2.10
65	1,005	ELIZABETH ST				94	94	1.50	No	No	Local	0.60	2.10
66	1,006	FIELDS POINT DR				140	140	1.50	No	No	Local	0.60	2.10
67	1,007	FULTON ST				257	257	1.50	No	No	Local	0.60	2.10
68	1,008	GARNET ST				229	229	1.50	No	No	Local	0.60	2.10
69	1,009	HENDERSON ST				130	130	1.50	No	No	Local	0.60	2.10
70	1,010	JAMES ST			44	37	81	1.50	No	No	Local	0.60	2.10
71	1,011	MARENGO ST				93	93	1.50	No	No	Local	0.60	2.10

Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
72	1,012	MIDDLE ST				282	282	1.50	No	No	Local	0.60	2.10
73	1,013	ORANGE ST			348	700	1,048	1.50	No	No	Local	0.60	2.10
74	1,014	PACKET ST			65	48	113	1.50	No	No	Local	0.60	2.10
75	1,015	PAGE ST				101	101	1.50	No	No	Local	0.60	2.10
76	1,016	PECK ST			305	395	700	1.50	No	No	Local	0.60	2.10
77	1,017	PIER RD				257	257	1.50	No	No	Local	0.60	2.10
78	1,018	POST OFFICE CT				285	285	1.50	No	No	Local	0.60	2.10
79	1,019	PUBLIC ST				123	123	1.50	No	No	Local	0.60	2.10
80	1,020	SAVE THE BAY DR				171	171	1.50	No	No	Local	0.60	2.10
81	1,021	SEA VIEW DR				411	411	1.50	No	No	Local	0.60	2.10
82	1,022	SEAVIEW AVE				184	184	1.50	No	No	Local	0.60	2.10
83	1,023	SHIP ST				50	50	1.50	No	No	Minor Coll.	0.60	2.10
84	1,024	SIMS AVE				48	48	1.50	No	No	Local	0.60	2.10
85	1,025	TERMINAL RD				206	206	1.50	No	No	Local	0.60	2.10
86	1,026	THROOP ALY				98	98	1.50	No	No	Local	0.60	2.10
87	1,027	TOCKWOTTON ST				101	101	1.50	No	No	Local	0.60	2.10
88	1,028	UNION ST				197	197	1.50	No	No	Minor Coll.	0.60	2.10
89	1,029	UNION STATION ST		71	59	36	166	1.50	No	No	Local	0.60	2.10
90	1,030	WORCHESTER ST				363	363	1.50	No	No	Local	0.60	2.10
91	1,380	HAY ST			270	17	287	1.50	No	No	Local	0.60	2.10
TOTAL LINEAR FEET			1,563	584	9,942	35,224	47,313						



# Sea Level Rise Scenarios Affecting Bridges

City of Providence

Map Created: Thursday, August 11, 2016

## Map Legend

### NOTES:

The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

- Freeboard Potentially Affected by SLR
- Freeboard Unlikely to be Affected by SLR
- Not Exposed to SLR
- Bridge Accessible
- Possible Bridge Access Problem
- Current Mean Higher High Water
- 1Ft Sea Level Rise
- 3Ft Sea Level Rise
- 5Ft Sea Level Rise
- 7Ft Sea Level Rise
- City and Town Boundaries
- Roads

0 0.125 0.25 0.5 Miles

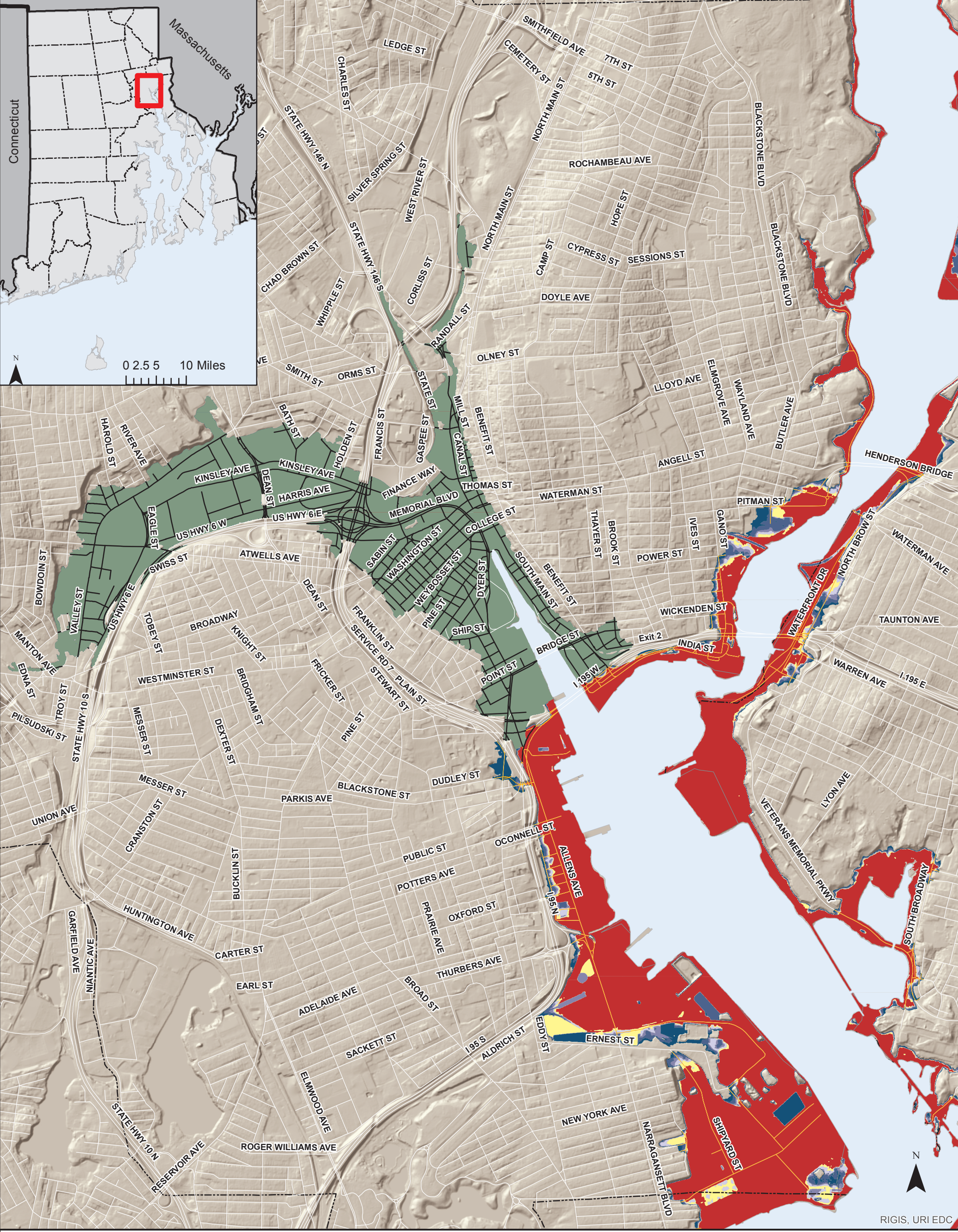


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Bridges Possibly Affected by Sea Level Rise in the Town of Providence

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7ftSLR	Terrain Crossed	Landing Access	Haz. Score	Intermodal Facility	Evac. Route	AADT	Sys. Score	Vuln. Score
1	7	Eagle Street	EAGLE ST	WOONASQUATUCKET R	-8	MHHW	Problem	5.00	Yes	No	6,162	3.10	8.10
2	8	Park Street	PARK ST	WOONASQUATUCKET R	-25	MHHW	Problem	5.00	Yes	No	5,555	3.10	8.10
3	9	Crawford Street	SOUTH WATER ST	PROVIDENCE R	-9	MHHW	Problem	5.00	Yes	No	6,161	3.10	8.10
4	16	Acorn Street	ACORN ST	WOONASQUATUCKET R	-2	MHHW	Problem	5.00	Yes	No	1,616	2.50	7.50
5	30	Steeple Street East	STEEPLE ST	MOSHASSUCK R	25	MHHW	Problem	3.80	Yes	No	10,201	3.10	6.90
6	39	Point Street	POINT ST	PROVIDENCE R	37	MHHW	Problem	3.40	No	No	23,254	3.00	6.40
7	41	Park ROW	PARK ROW	MOSHASSUCK R	23	MHHW	Problem	3.80	Yes	No	3,131	2.50	6.30
8	42	Atwells Ave	ATWELLS AV	WOONASQUATUCKET R	10	Water	Access	2.10	Yes	Yes	11,514	4.10	6.20
9	44	Steeple Street West	STEEPLE ST	WOONASQUATUCKET R	70	MHHW	Problem	3.00	Yes	No	10,201	3.10	6.10
10	45	Washington Street	WASHINGTON ST	PROVIDENCE R	-19	MHHW	Access	3.00	Yes	No	6,363	3.10	6.10
11	46	Bath Street East	BATH ST	WOONASQUATUCKET R	5	MHHW	Problem	4.60	No	No	4,000	1.50	6.10
12	57	Pleasant Valley Parkway	DEAN ST	WOONASQUATUCKET R	-8	MHHW	Access	3.00	No	No	39,800	3.00	6.00
13	58	Memorial Blvd Ped UP	MEMORIAL BLVD	PEDESTRIAN UNDERPASS	-57	Land	Access	2.00	Yes	No	26,759	4.00	6.00
14	61	College Street	COLLEGE ST	PROVIDENCE R	0	MHHW	Access	2.60	Yes	No	6,060	3.10	5.70
15	71	Crawford St Ped OP	CRAWFORD ST PED OP	PROVIDENCE R	-12	MHHW	Problem	5.00	No	No	0	0.00	5.00
16	80	India Point Park Bike Path	INDIA STREET	INDIA PT BIKE PATH	-19	Land	Access	2.00	No	No	9,500	2.10	4.10
17	82	College St Ped OP North	COLLEGE ST PED OPN	PROVIDENCE R	-10	MHHW	Access	3.00	Yes	No	1	1.00	4.00
18	84	Bath Street West	BATH ST WLKWAY	WOONASQUATUCKET R	17	MHHW	Problem	3.80	No	No	1	0.00	3.80
19	85	Waterplace Ped OP East	WTR PLC PED OP E	WOONASQUATUCKET R	15	MHHW	Problem	3.80	No	No	0	0.00	3.80
20	86	Waterplace Ped OP West	WTR PLC PED OP W	WOONASQUATUCKET R	42	MHHW	Problem	3.40	No	No	1	0.00	3.40
21	88	College St Ped OP South	COLLEGE ST PED OPS	PROVIDENCE R	15	MHHW	Access	1.80	Yes	No	1	1.00	2.80



# 100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Roads

City of Providence

Map Created: 8/11/2016

**Map Legend**

NOTES:  
The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

- Current Ponds & Mean Higher High Water
- 100-Year Storm Event
- 100-Year Plus 1 ft. of SLR
- 100-Year Plus 2 ft. of SLR
- 100-Year Plus 3 ft. of SLR
- 100-Year Plus 5 ft. of SLR
- 100-Year Plus 7 ft. of SLR
- Surge Areas Protected by Hurricane Barrier
- City and Town Boundaries
- Potentially Affected Roads
- Potentially Affected Roads Protected by Hurricane Barrier
- Roads

0 0.225 0.45 0.9 Miles

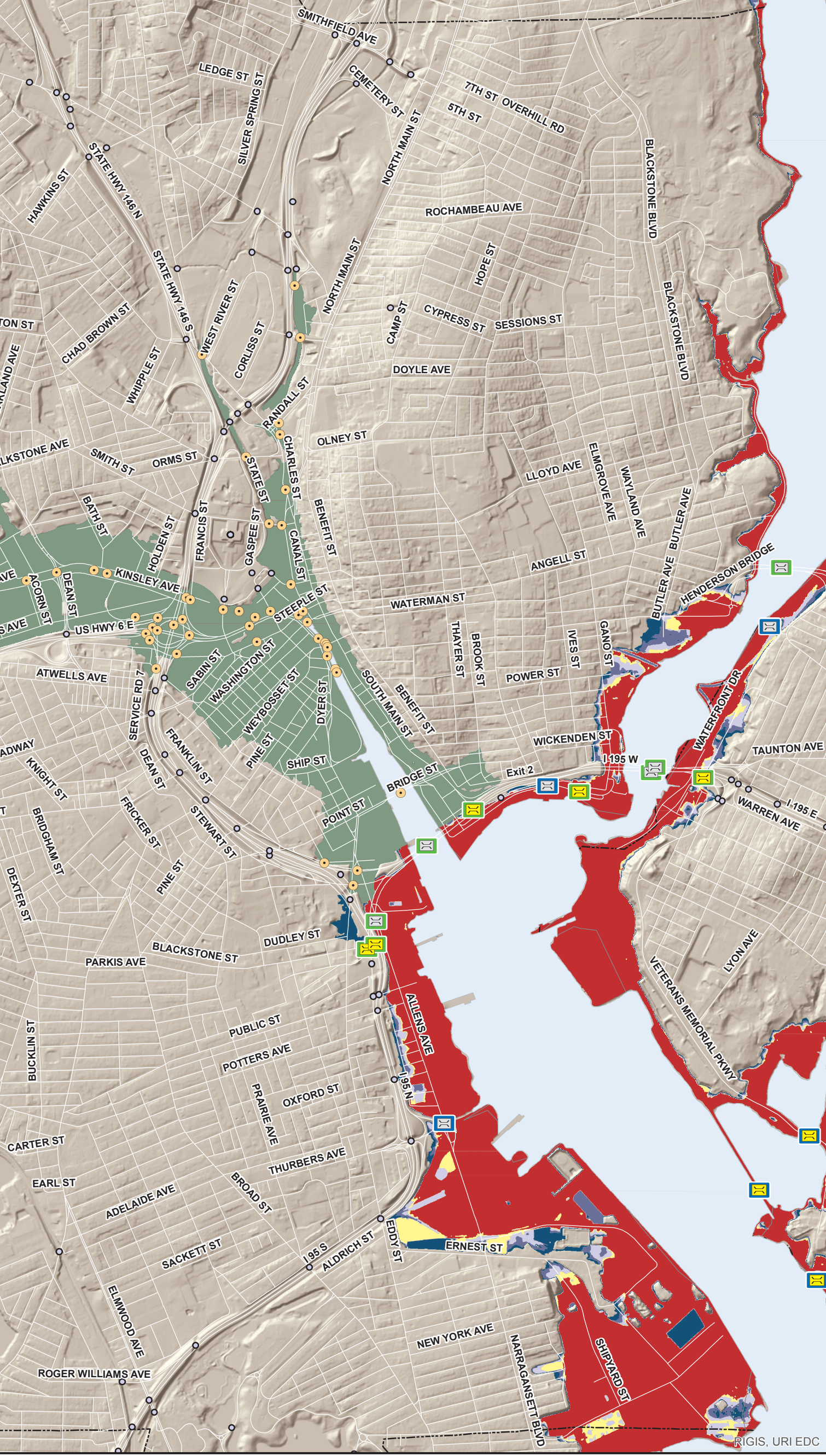
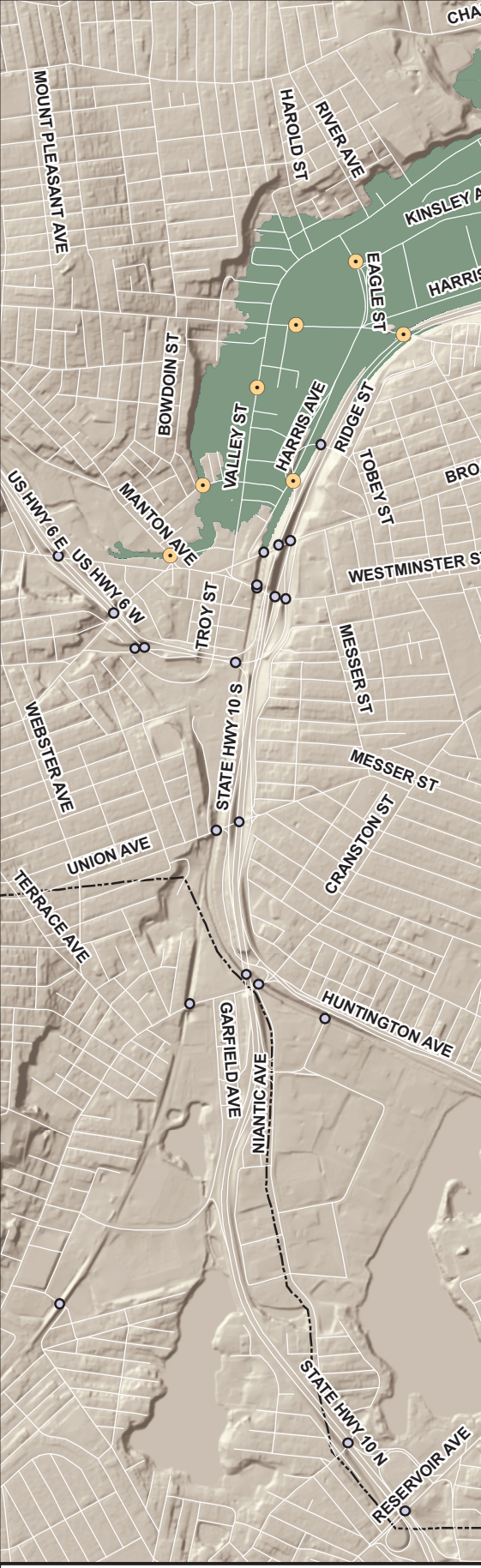
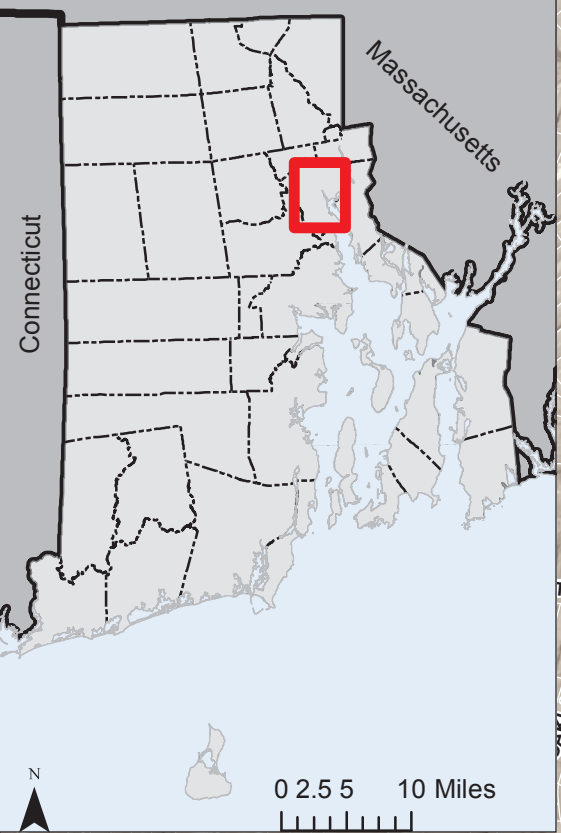
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Relative Road Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise														
Providence			Linear Feet Inundated During 100 Year Surge Event Plus:											
Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
1	28	I 195 E	1,134	46	33	37	7	1,257	4.73	No	No	Interstate	3.30	8.03
2	51	195 EAST ACCESS RD	362					362	5.00	No	Yes	Principal Art.	2.40	7.40
3	78	ALLENS AVE	6,396	48	85	88	88	6,704	4.26	No	No	Principal Art.	2.76	7.02
4	86	EXIT 3	300	19	48	43	46	456	3.89	No	Yes	Interstate	3.00	6.89
5	96	EXIT 19	1,521	151	139	39	360	2,210	4.15	No	No	Freeways	2.62	6.76
6	111	GANO ST	2,204	49	79	79	73	2,484	4.64	No	Yes	Minor Art.	1.96	6.61
7	125	PUBLIC ST	507	17	35	35	35	628	4.38	No	No	Minor Coll.	2.10	6.48
8	127	ON RAMP I-195 W	103	13	20	23	24	183	3.47	No	No	Interstate	3.00	6.47
9	138	ON RAMP I-195 E	457	45	81	134	195	913	3.35	No	No	Interstate	3.00	6.35
10	145	HENDERSON BRIDGE	424	46	105	104	107	785	3.51	No	No	Minor Art.	2.80	6.31
11	156	GULF ST	3,797	13	23	17	14	3,864	4.94	No	No	Local	1.28	6.22
12	191	INDIA ST	3,725	17	30	43	64	3,879	4.87	No	Yes	Major Coll.	1.11	5.98
13	207	SHIPYARD ST	2,531	116	198	94	42	2,981	4.68	No	No	Major Coll.	1.20	5.88
14	212	HARBORSIDE BLVD	2,066					2,066	5.00	No	Yes	Minor Coll.	0.85	5.85
15	239	THURBERS AVE	580	34	41	47	43	744	4.29	No	No	Major Coll.	1.41	5.70
16	253	EXIT 1B	117	7	98	77	70	370	2.61	No	No	Interstate	3.00	5.61
17	710	EAST HALL	243					243	5.00	No	Yes	Local	0.60	5.60
18	711	HENDERSON ST	1,078					1,078	5.00	No	No	Local	0.60	5.60
19	712	LEHIGH ST	470					470	5.00	No	No	Local	0.60	5.60
20	713	PARKING LOT	370					370	5.00	No	No	Local	0.60	5.60
21	714	PIER RD	350					350	5.00	No	No	Local	0.60	5.60
22	715	RICHMOND SQ	97					97	5.00	No	No	Local	0.60	5.60
23	716	SEA VIEW DR	1,096					1,096	5.00	No	No	Local	0.60	5.60
24	717	SEAVIEW AVE	1,136					1,136	5.00	No	No	Local	0.60	5.60
25	718	WADE ST	259					259	5.00	No	No	Local	0.60	5.60
26	1,054	OXFORD ST	267	37	102	107	37	551	3.33	No	No	Major Coll.	2.20	5.53
27	1,061	SAVE THE BAY DR	1,028	17	15			1,059	4.93	No	No	Local	0.60	5.53
28	1,128	TERMINAL RD	2,639	482	388			3,509	4.81	No	No	Local	0.60	5.41
29	1,189	PITMAN ST	1,125	82	158	56	56	1,476	4.42	No	No	Local	0.88	5.30
30	1,201	I 195 W	806	72	183	144	134	1,339	2.68	No	No	Interstate	2.60	5.28
31	1,216	EAST RIVER ST	430	36	74	67	73	680	3.72	No	No	Local	1.53	5.25
32	1,318	IRVING AVE	114	13	27	24	24	203	3.47	No	No	Local	1.60	5.07
33	1,393	FIELDS POINT DR	1,402	35	62	79	184	1,763	4.32	No	No	Local	0.60	4.92
34	1,459	WATERMAN ST	502	64	98	64	54	782	3.46	No	No	Minor Coll.	1.38	4.84
35	1,470	SEYMOUR ST	214	82	145			441	4.23	No	No	Local	0.60	4.83
36	1,497	NEW YORK AVE	801	42	70	88	74	1,074	4.19	No	No	Local	0.60	4.79
37	1,523	OCONNELL ST	156	17	38	35	38	284	3.54	No	No	Major Coll.	1.20	4.74
38	1,543	SWAN ST	239	31	55	19		344	4.11	No	No	Local	0.60	4.71
39	1,552	MUTUAL ST	256	31	38	41	3	368	4.10	No	No	Local	0.60	4.70
40	1,564	SAYLES ST	255	17	44	41		358	4.09	No	No	Local	0.60	4.69
41	1,607	EXIT 2	1,009	179	146	140	162	1,635	2.65	No	No	Interstate	1.97	4.62
42	1,609	UNNAMED_1	423	20	62	71	28	604	4.02	No	No	Local	0.60	4.62
43	1,673	EXIT 18					12	12	1.50	No	No	Interstate	3.00	4.50
44	1,674	OFF RAMP BORDEN ST/EDDY ST					312	312	1.50	No	No	Interstate	3.00	4.50
45	1,681	BLACKSTONE ST	197	80	70	64	64	475	3.29	No	Yes	Major Coll.	1.20	4.49
46	1,734	MICHIGAN AVE	182	159	82	45	48	517	3.81	No	No	Local	0.60	4.41
47	1,877	ANGELL ST	124	13	20	23	27	207	3.60	No	No	Local	0.60	4.20
48	1,885	SHERBURNE ST	171	38	51	64		324	3.58	No	No	Local	0.60	4.18
49	1,997	TRENTON ST	111	13	23	26	26	200	3.44	No	No	Local	0.60	4.04
50	2,031	E TRANSIT ST	120	20	36	33	33	242	3.40	No	No	Local	0.60	4.00
51	2,059	POE ST	314	23	219	718	316	1,590	3.33	No	No	Local	0.60	3.93
52	2,161	FREMONT ST	89	17	33	40	30	207	3.15	No	No	Local	0.60	3.75
53	2,430	F C GREENE MEMORIAL BLVD					50	50	1.50	No	No	Local	1.60	3.10
54	2,459	BUTLER AVE			111	321	20	452	1.50	No	No	Local	1.53	3.03
55	2,522	DUDLEY ST		42	82	52	501	677	1.62	No	No	Major Coll.	1.20	2.82
56	2,632	COLD SPRING ST	30	20	56	50	48	203	1.99	No	No	Local	0.60	2.59
57	2,655	ON RAMP I-95 S	1,000	77	78	75	79	1,310	1.50	Yes	No	Interstate	1.05	2.55
58	2,671	VERMONT AVE	26	18	21	80	67	211	1.91	No	No	Local	0.60	2.51
59	3,050	BLACKSTONE PL					3	3	1.50	No	No	Local	0.60	2.10
60	3,051	FURNACE ST				135	142	277	1.50	No	No	Local	0.60	2.10
61	3,052	WASHINGTON AVE			56	44	54	154	1.50	No	No	Local	0.60	2.10
62	3,348	SCHOFIELD ST				34	40	74	1.50	No	No	Local	0.60	2.10
63	3,399	ON RAMP I-95 N	606	20	44	39	54	762	0.93	No	No	Interstate	0.64	1.57
64	3,400	EXIT 20	131	4	29	23	42	229	0.70	No	No	Interstate	0.60	1.30
65	3,401	WICKENDEN ST	193	20	40	46	43	342	0.68	No	No	Minor Art.	0.34	1.02
66	3,402	POWER ST				30	136	166	0.57	No	No	Local	0.23	0.80
67	3,403	SOUTH MAIN ST	503					503	0.48	No	No	Minor Art.	0.18	0.66
68	3,404	WILLIAMS ST		12	33	26	23	94	0.39	No	No	Local	0.16	0.55
69	3,405	EDDY ST					606	606	0.14	No	No	Principal Art.	0.31	0.45
70	3,406	I 95 N	47	7	14	11	11	91	0.16	No	No	Interstate	0.25	0.41
71	3,407	I 95 S	1	28	23	18	11	81	0.13	No	No	Interstate	0.23	0.36

Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
72	3,408	SOUTH WATER ST	172					172	0.22	No	No	Local	0.03	0.24
		Total Linear Feet	46,835	2,490	3,839	3,833	4,830	61,826						





# 100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Bridges

City of Providence

Map Created: 8/11/2016

**Map Legend**

NOTES:  
The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

Freeboard Potentially Affected by Surge	100-Year Storm Event	City and Town Boundaries
Freeboard Unlikely to be Affected by Surge	100-Year Plus 1 ft. of SLR	Roads
Bridge in Surge Area Protected by Barrier	100-Year Plus 3 ft. of SLR	
Not Exposed to Surge	100-Year Plus 5 ft. of SLR	
access, 0	100-Year Plus 7 ft. of SLR	
problem, 0	Surge Areas Protected by Barrier	

0 0.125 0.25 0.5 Miles

Map Disclaimer: This map is not the product of a Professional Land Survey. It was created by RI Statewide Planning Program for general reference, informational, planning and guidance use, and is not a legally authoritative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. RI Statewide Planning Program makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

Relative Bridge Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise in the City of Providence

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Haz. Score	Intermodal Facility	Evac. Route	AADT	Sys. Score	Vuln. Score
1	14	Francis Street South	FRANCIS ST	WOONASQUATUCKET R	-62	MHHW	Problem	5.00	Yes	No	18,585	4.00	9.00
2	33	Smith Street	US 44 SMITH ST	MOSHASSUCK R	-84	Water	Problem	4.50	Yes	No	12,323	2.80	7.30
3	46	Tar Bridge	MANTON AV	WOONASQUATUCKET R	23	Water	Problem	4.10	Yes	No	10,255	2.80	6.90
4	68	Smith Street RR	US 44 SMITH ST	AMTRAK & P&W RR	144	Water	Problem	3.30	Yes	No	12,323	2.80	6.10
5	69	Ramp CB-1 Civic Center	RAMP CB	RAMP CC	32	Water	Access	2.10	Yes	No	22,100	4.00	6.10
6	80	South Main Street Bridge	I-195 EB & WB	SOUTH MAIN STREET	-135	Land	Access	2.00	Yes	No	159,294	4.00	6.00
7	81	Blackstone Street	I-95 NB & SB	BLACKSTONE ST	-119	Land	Access	2.00	Yes	No	167,639	4.00	6.00
8	82	Randall Street	RANDALL ST	MOSHASSUCK R	55	Water	Problem	4.10	No	No	9,494	1.80	5.90
9	86	Ramp BC Civic Center	RAMP BC	WEST EXCHANGE ST	44	Water	Problem	4.10	Yes	No	1,100	1.60	5.70
10	94	Allens Ave Ramp	I-95 RAMP BR-7	US 1A ALLENS AV	72	Land	Problem	2.80	Yes	No	5,800	2.80	5.60
11	102	Atwells Av	ATWELLS AV	US 6 CONNECTOR & AMTRAK	233	Water	Problem	2.50	Yes	No	7,777	2.80	5.30
12	118	Ramp WES	I-195 W TO EDDY ST	BLACKSTONE ST.	-39	Land	Access	2.00	No	No	23,400	3.00	5.00
13	119	Ramp AC Civic Center	RAMP A-C	US 6 EXTENSION, RAMP C-C	89	Water	Problem	3.30	Yes	No	3,500	1.60	4.90
14	123	Harris Ave	MALL RAMP RV-AD	HARRIS AV	48	Water	Problem	4.10	No	No	4,100	0.60	4.70
15	124	Stevens Street	STEVENS ST	MOSHASSUCK R	53	Water	Problem	4.10	No	No	3,000	0.60	4.70
16	133	Delaine Street	DELAINE ST	WOONASQUATUCKET R	-8	Water	Access	2.50	Yes	No	4,084	1.60	4.10
17	134	Ramp DA Civic Center	I-95 RAMP DA	US 6,W EXCH,RMPSCB,AC,CC	195	Water	Problem	2.50	Yes	No	4,900	1.60	4.10
18	137	India Point Park Bike Path	INDIA STREET	INDIA PT BIKE PATH	-210	Land	Access	2.00	No	No	9,500	1.80	3.80
19	148	India Point Park Ped OP	PEDESTRIAN BRIDGE	I-195EB&WB RAMP EI INDIA	240	Land	Problem	2.00	No	No		0.00	2.00