

Currituck No. 16

Approx. proposed repair quantities from: 2016 GS survey, 2014 Routine Inspection Report

Span #	Component	Location (ft. from nearest bent, etc)	Bent #	Defect Description	Length(ft.)	Width(ft.)	Depth(ft.)
1	Rt. Deck Overhang	20' from abutment	Abut. 1	Delam	1.75	1.25	0.3125
1	End Diaphragm	Abut. backwall bay 2	Abut. 1	Spalling/rebar exposed	0.5	0.25	0.3125
1	Girder 1	at bent, bottom right flange	1	Delam at bearing	0.75	0.75	0.1875
2	Girder 2	at bent, bottom right flange	1	Spalling/strands exposed behind bearing	1	0.5	0.1875
	End Diaphragm	at right overhang	1	Delam	0.5	0.25	0.3125
1	Int. Diaphragm	bay 1, East face	1	(x2)Spalling/rebar exposed	0.75	0.33	0.3125
	Int. Diaphragm	bay 2, bottom flange	1	Spalling/exposed steel	0.75	0.5	0.3125
1	Int. Diaphragm	bay 2, East face	1	Spalling/rebar exposed	0.75	0.25	0.3125
2	End Diaphragm	bay 3, bottom face	1	Delam	0.5	0.5	0.3125
2	Under Deck	bay 3	2	Spalling/rebar exposed	1.25	1.25	0.3125
	Int. Diaphragm	bay 1	2	(x4)Spalling/rebar exposed	1	1	0.3125
2	End Diaphragm	bay 3	2	Spalling/rebar exposed	2.25	1.5	0.3125
2	Girder 4	24' from bent, left flange	2	Delam at patch	2.25	0.5	0.1875
3	Girder 3	at bent	2	Spalling/rebar exposed	0.75	0.5	0.1875
3	Girder 2	at bent, both bottom flanges	3	Delam behind bearing	0.75	0.75	0.1875
3	End Diaphragm	at right overhang	3	Cracking	1	1	0.3125
3	Int. Diaphragm	bay 1, 20' from bent	3	Spalling(exposed metal form)	0.75	0.75	0.3125
3	Girder 4	24' from bent, bottom right flange	3	Delam at patch	2	1	0.1875
3	Girder 4	at bent, bottom right flange	3	Spalling/strands exposed behind bearing	1	0.75	0.1875
	Diaphragm	N face and S face	3	Cracking/spalling			0.3125
	Under Deck	bay 1	3	Spalling	0.75	0.75	0.3125
3	Lt. Deck Overhang	10' from bent, left overhang	3	Spalling/rebar exposed	0.5	0.5	0.3125
3	Under Deck	bay 2 at bent	3	Spalling/rebar exposed	0.5	0.5	0.3125
4	Lt. Deck Overhang	at bent	3	Delam under Rail	0.75	0.5	0.3125
4	End Diaphragm	at bent, left overhang	3	Spalling	0.75	0.5	0.3125
4	End Diaphragm	bay 3	3	Spalling/rebar exposed	0.75	0.5	0.3125
4	Int. Diaphragm	bay 1, bottom fac	3	Spalling/rebar exposed	0.5	0.25	0.3125
4	Under Deck	bay 1 near bent	4	Spalling/rebar exposed	1.5	1.5	0.3125
4	Girder 2	at bent, bottom face	4	Spalling/embedded bearing plate exposed	1.25	0.75	0.1875
4	Girder 3	6' from bent, bottom left face	4	Spalling/strands exposed	3.5	1	0.1875
4	Rt. Deck Overhang	at bent	4	Spalling/rebar exposed	0.75	0.75	0.3125
4	Rt. Deck Overhang	near bent	4	(x1)Spalling/(x1)Delam	0.75	0.75	0.3125
4	End Diaphragm	bay 3	4	Delam	0.75	0.75	0.3125
	Rt. Deck Overhang	1' from drain	4	Spalling/steel exposed	0.5	0.5	0.3125
4	End Diaphragm	bay 4	4	Spalling/rebar exposed	2	0.75	0.3125
6	Rt. Deck Overhang	at bent	5	Spalling/rebar exposed	1	0.75	0.3125
6	End Diaphragm	bay 3 at bent	5	Spalling/rebar exposed	2.25	0.75	0.3125
	Int. Diaphragm	bay 3	6	(x2)Delam	1	0.75	0.3125
6	Girder 1	at bent, bottom left flange	6	Spalling/strands exposed behind bearing	1	0.75	0.1875
6	End Diaphragm	at left overhang	6	Spalling/rebar exposed	1	0.75	0.3125
7	Girder 3	at bent, bottom left flange	6	Spalling/strands exposed behind bearing	1	1	0.1875
7	Rt. Deck Overhang	at bent	6	Spalling/rebar exposed	0.5	0.5	0.3125
7	End Diaphragm	bay 2 at bent	7	(x2)Spalling/rebar exposed	1.5	1.5	0.3125
7	Under Deck	bay 3	7	Spalling/rebar exposed	0.5	0.5	0.3125
7	Lt. Deck Overhang	at bent	7	Spalling/rebar exposed	1.25	1	0.3125
8	Lt. Deck Overhang	mid span	7	(x3)Spalling/rebar exposed	1.75	0.75	0.3125
8	Int. Diaphragm	bay 1	7	(x5)Spalling/rebar exposed	1.75	0.5	0.3125
9	End Diaphragm	at left overhang	8	Spalling/rebar exposed	0.75	0.75	0.3125
9	Int. Diaphragm	bay 1	8	Spalling/rebar exposed	1	0.33	0.3125
10	Rt. Deck Overhang	near drain pipe	9	Spalling/rebar exposed	0.5	0.5	0.3125
10	End Diaphragm	at left overhang	9	Spalling/rebar exposed	1	0.75	0.3125
10	Girder 2	20' from bent, bottom right flange	9	Delam/cracking at patch	1.75	1.2	0.1875
10	Girder 2	at bent, bottom left flange	9	Spalling/strands exposed behind bearing	1.25	1	0.1875
10	Lt. Deck Overhang	mid span	10	Spalling/rebar exposed	1	1	0.3125
10	Int. Diaphragm	bay 3	10	Spalling/rebar exposed	2	1.75	0.3125
11	End Diaphragm	bay 3	10	Delam/cracking/exposed steel	0.75	0.75	0.3125
11	Girder 2	at bent, both bottom flanges	10	Spalling/strands exposed behind bearing	1.75	1	0.1875
12	Int. Diaphragm	bay 1	11	Spalling/rebar exposed	1.25	0.75	0.3125
12	Under Deck	bay 2, 10' from bent	11	(x2)Spalling/rebar exposed; (x2)delam	1.5	1.5	0.3125
12	Girder 1	at bent, bottom right flange	12	Spalling/strands exposed behind bearing	1	1	0.1875
12	Int. Diaphragm	bay 3, E face	12	(x4)Spalling/rebar exposed	1.75	1	0.3125
12	Int. Diaphragm	bay 3, E face	12	(x2)Spalling/rebar exposed	1	0.75	0.3125
12	Under Deck	bay 3	12	(x2)Spalling/rebar exposed; delam	1.25	1.25	0.3125
12	Under Deck	bay 3, 10' from bent	12	(x4)Spalling/rebar exposed; delam	1.75	1.75	0.3125
13	Diaphragm	bay 3, W face	12	(x2)Spalling/rebar exposed	0.75	0.75	0.3125
13	Girder 3	at bent, bottom right flange	13	Spalling/strands exposed behind bearing	0.75	0.75	0.1875
14	Diaphragm	bay 2	13	(x3)Spalling/rebar exposed	1	1	0.3125
14	End Diaphragm	bay 3	14	Spalling/rebar exposed	1.75	1.75	0.3125
16	Girder 3	26' from bent	15	Delam at patches on each flange edge	2.5	1	0.1875
16	Girder 4	28' from bent, bottom left flange	16	Delam at patch	2	1	0.1875
17	Under Deck	bay 3	16	Spalling/rebar exposed	0.5	0.5	0.3125
17	Int. Diaphragm	bay 3, E face	16	(x2)Spalling/rebar exposed	1	1	0.3125
17	Girder 2	10' from bent, bottom right flange	16	Delam at patch	3.5	1.25	0.1875
17	Girder 1	2' from bent, bottom right flange	17	Cracking on edge - possible delam	1.75	0.5	0.1875
17	Girder 1	6' from bent bent, right web	17	Spalling/rebar exposed	0.5	0.33	0.1875
17	Girder 2	30' from bent, bottom left flange	17	Spalling, delam at patch	2.5	1	0.1875
17	Int. Diaphragm	bay 1	17	(x6)Spalling/rebar exposed	3	1	0.3125
17	Lt. Deck Overhang	8' from bent	17	Spalling/rebar exposed	1.25	0.5	0.3125
17	End Diaphragm	at left overhang	17	Delam, stress fractures	1	1.75	0.3125

Span #	Component	Location (ft. from nearest bent, etc)	Bent #	Defect Description	Length(ft.)	Width(ft.)	Depth(ft.)
18	Lt. Deck Overhang	at drain	17	Delam	0.5	0.5	0.3125
18	Lt. Deck Overhang	at bent	18	Delam	0.5	0.5	0.3125
19	Lt. Deck Overhang	near bent	19	Delam	2	0.75	0.3125
20	End Diaphragm	bay 1	20	Delam	0.75	0.5	0.3125
20	Girder 1	17' from bent, bottom left flange	20	Spalling/strands exposed	1.5	0.75	0.1875
21	End Diaphragm	at right overhang	20	Spalling/rebar exposed; cracking	1	1	0.3125
21	End Diaphragm	bay 3	21	Spalling; cracking	6.5	1	0.3125
22	Under Deck	bay 2, 8' from bent	22	Delam	1.25	1.25	0.3125
23	End Diaphragm	at left overhang	22	Spalling	0.75	0.75	0.3125
23	End Diaphragm	at left overhang	23	Spalling/rebar exposed	1.25	0.5	0.3125
23	Girder 3	at bent, bottom left flange	23	Spalling/strands exposed behind bearing	1.25	0.75	0.1875
23	Girder 3	6' from bent, bottom right flange	23	Spalling/strands exposed	1.75	0.5	0.1875
24	End Diaphragm	at right overhang	24	Spalling/rebar exposed	1.75	1.25	0.3125
24	Girder 4	20' from bent, bottom flange	24	Delam at patch	1.75	0.5	0.1875
24	Under Deck	bay 2, near bent	24	(x2)Delam	1.75	1.75	0.3125
24	Under Deck	bay 1, near bent	24	(x2)Delam	2	1.25	0.3125
24	Lt. Deck Overhang	at bent	24	Spalling/rebar exposed	0.5	0.5	0.3125
	Under Deck	bay 1, near mid span	24	Spalling/steel exposed	0.5	0.75	0.3125
25	Under Deck	bay 3, 8' from bent	25	Delam	0.75	0.5	0.3125
25	Under Deck	bay 2, 10' from bent	25	Delam	1.5	1.5	0.3125
26	Under Deck	bay 1, 4' from bent	26	Spalling/rebar exposed	1.25	1.25	0.3125
	Lt. Deck Overhang		26	Spalling/rebar exposed	0.5	0.5	0.3125
27	Under Deck	bay 1, near int. diaphragm	26	Spalling/rebar exposed	0.5	0.5	0.3125
28	End Diaphragm	at right overhang, East face	27	Spalling/rebar exposed	1	0.33	0.3125
28	End Diaphragm	bay 2	27	Spalling/rebar exposed	0.75	0.5	0.3125
28	Under Deck	bay 2, 6' from bent	28	Delam	1.25	1.5	0.3125
29	Lt. Deck Overhang	at bent	28	Delam	1	1	0.3125
30	End Diaphragm	bay 2	29	Spalling/rebar exposed	0.5	0.5	0.3125
31	End Diaphragm	bay 1	31	Spalling/rebar exposed	1.75	0.5	0.3125
31	Under Deck	bay 1, near bent	31	Spalling/rebar exposed	0.5	0.5	0.3125
32	End Diaphragm	at left overhang	31	Spalling/rebar exposed	1.75	1.25	0.3125
32	End Diaphragm	bay 1	31	(x3)Spalling/rebar exposed	3	0.5	0.3125
32	Under Deck	bay 1, 4' from bent	32	Delam	1	0.75	0.3125
33	End Diaphragm	bay 1	32	Spalling/rebar exposed	0.5	0.25	0.3125
33	Girder 3	10' from bent, bottom right flange	33	Spalling/strands exposed	2	0.5	0.1875
33	Rt. Deck Overhang	at bent	33	Spalling/rebar exposed	1	0.75	0.3125
34	Girder 3	at bent, bottom right flange	33	Spalling/strands exposed behind bearing	1	0.75	0.1875
34	Under Deck	bay 2, 5' from bent	34	(x5)Spalling/rebar exposed & delam	2	2	0.3125
34	Girder 2	2' from bent, bottom face	34	Delam	1.75	1.5	0.1875
34	End Diaphragm	bay 1	34	Spalling	0.5	0.5	0.3125
35	Girder 3	1' from bent	34	Spalling/strand exposed	1.75	0.5	0.1875
35	Int. Diaphragm	bay 2	35	Spalling/rebar exposed	1	1	0.3125
35	End Diaphragm	at left overhang	35	Delam	1	0.75	0.3125
36	Int. Diaphragm	bay 2	35	Spalling/rebar exposed	1	1	0.3125
36	Lt. Deck Overhang	at bent	36	Spalling/rebar exposed	0.5	0.5	0.3125
37	End Diaphragm	bay 1	36	Spalling/rebar exposed	0.75	0.75	0.3125
38	End Diaphragm	bay 1	37	(x4)Spalling/rebar exposed	2.5	2	0.3125
38	Girder 3	3' from bent, bottom left flange	37	Spalling/strand exposed	2.25	0.5	0.1875
38	Girder 2	3' from bent	37	Spalling/strand exposed	1.25	0.5	0.1875
39	Girder 2	3' from bent, bottom left flange	38	Spalling	1.75	0.5	0.1875
39	Under Deck	bay 3, near bent	39	Spalling	0.5	0.5	0.3125
40	Girder 2	at bent, bottom right flange	39	Spalling/strands exposed behind bearing	1	1	0.1875
40	End Diaphragm	bay 3	40	Delam	1.5	0.5	0.3125
40	Under Deck	bay 2, near bent	40	Delam	0.75	0.75	0.3125
40	Lt. Deck Overhang	at bent	40	Spalling/rebar exposed	0.5	0.25	0.3125
41	End Diaphragm	at right overhang	40	Delam	0.5	0.5	0.3125
41	End Diaphragm	bay 2	41	Spalling/rebar exposed	2.25	0.75	0.3125
42	Under Deck	bay 2 4' & 6' from bent	42	Spalling/(x2)Delam	2.25	1.75	0.3125
42	Girder 4	4' from bent, bottom left flange	42	Spalling/strand exposed	2	0.5	0.1875
42	Under Deck	bay 2, 9' from bent	42	Delam	1.5	1.5	0.3125
42	Lt. Deck Overhang	mid span	42	Spalling/rebar exposed	0.75	0.75	0.3125
42	End Diaphragm	at left overhang	42	(x2)Spalling/rebar exposed	1.5	1.5	0.3125
43	Lt. Deck Overhang	at bent	43	Spalling/rebar exposed	0.75	0.5	0.3125
43	End Diaphragm	bay 2	43	Spalling/rebar exposed	1	1	0.3125
43	Under Deck	bay 1	43	Delam	1	1	0.3125
44	Under Deck	bay 2	43	Spalling/rebar exposed	0.5	0.5	0.3125
44	Under Deck	bay 1, near int. diaphragm	43	Spalling/rebar exposed	0.5	0.5	0.3125
45	Girder 2	4' from bent, bottom left flange	44	Delam	1.75	0.5	0.1875
45	Girder 3	6' from bent, bottom right flange	45	Delam/Spalling at patch	3	1	0.1875
45	Girder 1	20' from bent, bottom flange	45	Delam and cracking	1.5	0.5	0.1875
45	Lt. Deck Overhang	at drain pipe	45	Spalling/rebar exposed	1.25	1	0.3125
46	End Diaphragm	bay 1	45	Spalling/rebar exposed	1.75	1.75	0.3125
46	Lt. Deck Overhang	at bent	46	Spalling/rebar exposed	0.75	0.5	0.3125
46	Under Deck	bay 2, 4' from bent	46	Spalling/rebar exposed	1	1	0.3125
46	Girder 3	8' from bent	46	Delam at patch	2	1	0.1875
47	Girder 2	4' from bent, bottom right flange	47	Spalling	0.5	0.5	0.1875
47	Under Deck	bay 2	47	Delam	1	1	0.3125
48	Under Deck	bay 2	47	Spalling/rebar exposed	0.75	0.75	0.3125
48	Girder 3	10' from bent, bottom left flange	47	Spalling/strands exposed (100% loss)	3.5	1	0.1875

PROJECT NO. B-5937
 CURRITUCK/DARE COUNTY
 STATION: BRIDGE NO. 16

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Samuel Cullum
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