

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES					
SPAN	MEMBER	LENGTH FROM BENT (FT)	REPAIR SIZE	LOCATION	BAY
29	G-1	@ BENT 28	0.6' X 0.7'	BOTTOM FLANGE	LT EXT
29	G-2	@ BENT 28	3.5' X 0.8'	BOTTOM FLANGE	2
29	G-3	@ BENT 28	0.5' X 0.5'	BOTTOM FLANGE	3
29	G-3	@ BENT 28	1.5' X 1.3'	BOTTOM FLANGE	2
29	G-3	4' FROM INTER. DIA.	0.7' X 0.7'	BOTTOM FLANGE	2
29	G-4	@ BENT 28	3.5' X 1'	BOTTOM FLANGE	3
29	G-4	@ BENT 29	1' X 0.6'	BOTTOM FLANGE	3
29	G-4	6.5' FROM INTER. DIA.	3' X 0.7'	BOTTOM FLANGE	3
30	G-1	@ BENT 29	5' X 1.5'	BOTTOM FLANGE	1
30	G-1	@ BENT 30	0.5' X 0.6'	BOTTOM FLANGE	1
30	G-2	@ BENT 29	3' X 0.7'	BOTTOM FLANGE	1
30	G-2	@ BENT 30	0.5' X 0.6'	BOTTOM FLANGE	1
30	G-3	@ BENT 29	1' X 0.6'	BOTTOM FLANGE	3
30	G-3	@ BENT 30	1' X 0.6'	BOTTOM FLANGE	3
30	G-3	@ BENT 30	1' X 0.6'	BOTTOM FLANGE	2
30	G-3	4' FROM INTER. DIA.	0.7' X 0.7'	BOTTOM FLANGE	2
30	G-4	@ BENT 29	1' X 0.6'	BOTTOM FLANGE	3
30	G-4	@ BENT 30	0.7' X 0.6'	BOTTOM FLANGE	3
31	G-1	@ BENT 30	0.5' X 0.6'	BOTTOM FLANGE	RT EXT
31	G-1	@ BENT 31	1' X 0.6'	BOTTOM FLANGE	1
31	G-3	4' FROM INTER. DIA.	2.7' X 0.7'	BOTTOM FLANGE	2
32	G-1	@ BENT 32	0.8' X 0.6'	BOTTOM FLANGE	1
32	G-2	@ BENT 32	0.8' X 0.6'	BOTTOM FLANGE	1
32	G-2	@ BENT 32	0.8' X 0.6'	BOTTOM FLANGE	2
32	G-3	1' FROM INTER. DIA.	2.5' X 0.6'	BOTTOM FLANGE	2
32	G-3	@ BENT 31	5.5' X 0.8'	BOTTOM FLANGE	2
32	G-3	@ BENT 32	0.8' X 0.6'	BOTTOM FLANGE	2
32	G-4	@ BENT 31	1' X 0.8'	BOTTOM FLANGE	3
33	G-1	@ BENT 32	2.5' X 0.5'	BOTTOM FLANGE	1
33	G-1	@ BENT 33	5' X 1'	BOTTOM FLANGE	LT EXT
33	G-2	@ BENT 32	3.7' X 0.8'	BOTTOM FLANGE	1
33	G-2	@ BENT 32	1' X 0.6'	BOTTOM FLANGE	2
33	G-2	@ BENT 33	0.3' X 0.6'	BOTTOM FLANGE	1
33	G-3	@ BENT 32	7.0' X 0.4'	BOTTOM FLANGE	2
33	G-4	@ BENT 32	0.9' X 0.9'	BOTTOM FLANGE	3
33	G-4	@ BENT 33	0.5' X 0.7'	BOTTOM FLANGE	3
34	G-2	@ BENT 33	0.4' X 1.5'	BOTTOM FLANGE	1
34	G-2	@ BENT 34	2.3' X 1'	BOTTOM FLANGE	1
34	G-2	@ BENT 34	0.6' X 0.6'	BOTTOM FLANGE	2
34	G-3	@ BENT 33	2.2' X 1.5'	BOTTOM FLANGE	2
34	G-3	@ BENT 34	1.5' X 0.6'	BOTTOM FLANGE	2
35	G-2	@ BENT 34	3.5' X 0.8'	BOTTOM FLANGE	1
35	G-3	@ BENT 34	0.8' X 0.7'	BOTTOM FLANGE	2
35	G-3	@ BENT 35	0.5' X 0.6'	BOTTOM FLANGE	2
36	END DIA.	@ BENT 36	3.5' X 1'	DIAPHRAGM	3
36	G-1	@ BENT 35	1' X 1.5'	BOTTOM FLANGE	LT EXT
36	G-1	@ BENT 35	0.6' X 0.6'	BOTTOM FLANGE	1
36	G-1	@ BENT 36	1' X 0.4'	BOTTOM FLANGE & WEB	LT EXT
36	G-2	@ BENT 35	0.5' X 0.1'	BOTTOM FLANGE	1
36	G-2	@ BENT 35	0.9' X 0.6'	BOTTOM FLANGE	1

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES					
SPAN	MEMBER	LENGTH FROM BENT (FT)	REPAIR SIZE	LOCATION	BAY
36	G-3	@ BENT 35	5' X 0.6'	BOTTOM FLANGE	3
36	G-3	@ BENT 35	3' X 1.3'	BOTTOM FLANGE	2
36	G-3	@ BENT 35	1' X 0.8'	BOTTOM FLANGE	3
36	G-3	7' FROM INTER. DIA.	3.8' X 0.5'	BOTTOM FLANGE	2
36	G-4	@ BENT 35	1' X 0.4'	BOTTOM FLANGE	3
36	G-4	@ BENT 35	1.5' X 0.8'	BOTTOM FLANGE	3
37	G-1	@ BENT 36	0.8' X 0.6'	BOTTOM FLANGE	1
37	G-1	@ BENT 37	2.8' X 0.6'	BOTTOM FLANGE	1
37	G-2	@ BENT 37	0.8' X 0.6'	BOTTOM FLANGE	1
37	G-3	@ BENT 36	5' X 0.5'	BOTTOM FLANGE	2
37	G-3	@ BENT 36	0.6' X 0.6'	BOTTOM FLANGE	3
37	G-3	14.5' FROM BENT 37	3' X 0.6'	BOTTOM FLANGE	2
37	G-3	@ BENT 37	1.4' X 0.7'	BOTTOM FLANGE	2
37	G-4	@ BENT 36	2.8' X 0.7'	BOTTOM FLANGE	3
37	G-4	14.5' FROM BENT 37	2.8' X 0.6'	BOTTOM FLANGE	RT EXT
38	G-1	@ BENT 37	0.8' X 0.5'	BOTTOM FLANGE	1
38	G-2	@ BENT 37	0.8' X 0.4'	BOTTOM FLANGE	2
38	G-2	@ BENT 38	5.5' X 1.4'	BOTTOM FLANGE	1
38	G-3	3' FROM BENT 37	2' X 0.5'	BOTTOM FLANGE	2
38	G-3	@ BENT 37	3' X 0.5'	BOTTOM FLANGE	2
38	G-3	@ BENT 37	0.6' X 0.3'	BOTTOM FLANGE & WEB	2
38	G-3	@ BENT 37	1.8' X 0.6'	BOTTOM FLANGE	3
38	G-4	25' FROM BENT 37	2.2' X 0.4'	BOTTOM FLANGE	3
38	G-4	13.5' FROM BENT 38	6' X 0.5'	BOTTOM FLANGE	3
38	G-4	@ BENT 37	0.8' X 0.6'	BOTTOM FLANGE	3
38	G-4	@ BENT 37	2.2' X 1.7'	BOTTOM FLANGE & WEB	3
38	G-4	@ BENT 37	0.6' X 0.3'	BOTTOM FLANGE	RT EXT
39	G-1	@ BENT 39	0.3' X 0.5'	BOTTOM FLANGE	LT EXT
39	G-2	@ BENT 39	1.3' X 1.2'	BOTTOM FLANGE	2
39	G-4	27.5' FROM BENT 38	6.4' X 0.6'	BOTTOM FLANGE	3
40	G-2	@ BENT 40	0.8' X 0.3'	BOTTOM FLANGE	1
40	G-3	@ BENT 40	1' X 0.7'	BOTTOM FLANGE	3
40	G-3	@ BENT 40	0.9' X 0.7'	BOTTOM FLANGE	2
40	G-4	@ BENT 40	1.9' X 1.3'	BOTTOM FLANGE	3
41	G-2	@ BENT 40	1.8' X 0.3'	BOTTOM FLANGE	1
41	G-3	30' FROM BENT 40	4' X 0.5'	BOTTOM FLANGE	2
41	G-4	29' FROM BENT 40	2.6' X 0.4'	BOTTOM FLANGE	3
41	G-4	@ BENT 40	0.9' X 0.5'	BOTTOM FLANGE	3
41	G-4	@ BENT 41	0.7' X 0.7'	BOTTOM FLANGE	RT EXT

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 2" CL TO SAWCUT. SEE REPAIR DETAILS.
FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

REPAIR QUANTITY TABLE

SPAN	REPAIR TYPE	QUANTITIES				
		ESTIMATE		ACTUAL		
		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
SPAN 29	GIRDERS	12.21	5.05			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 30	GIRDERS	13.51	5.63			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 31	GIRDERS	2.79	1.16			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 32	GIRDERS	22.12	9.22			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 33	GIRDERS	13.95	5.81			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 34	GIRDERS	7.46	3.11			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 35	GIRDERS	3.66	1.53			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 36	GIRDERS	13.96	5.82			
	DIAPHRAGMS	3.50	1.46			
	DECK	0.00	0.00			
SPAN 37	GIRDERS	11.92	4.97			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 38	GIRDERS	20.45	8.53			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 39	GIRDERS	5.55	2.31			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 40	GIRDERS	4.04	1.68			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 41	GIRDERS	4.52	1.88			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 42	GIRDERS	0.00	0.00			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			

PROJECT NO. B-5936
TYRRELL COUNTY
BRIDGE NO. 7

SHEET 4 OF 22

DocuSigned by:
Timothy M. Shepell
AD50B1D977494CC...

8/10/2016



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GIRDER, DIAPHRAGM & UNDERDECK REPAIRS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-19
2			4			TOTAL SHEETS 394

DRAWN BY : M.ALEE DATE : 6/2016
CHECKED BY : T.SHERRILL DATE : 6/2016
DESIGN ENGINEER OF RECORD : T.SHERRILL DATE : 6/2016