

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES					
SPAN	MEMBER	LENGTH FROM BENT (FT)	REPAIR SIZE	LOCATION	BAY
43	G-1	@ BENT 42	2.9' X 0.8'	BOTTOM FLANGE	LT EXT
43	G-2	@ BENT 42	4.7' X 0.5'	BOTTOM FLANGE	1
43	G-3	@ BENT 42	1.3' X 0.8'	BOTTOM FLANGE	2
43	G-3	@ BENT 42	1.4' X 0.8'	BOTTOM FLANGE	3
43	G-4	@ BENT 43	1' X 0.8'	BOTTOM FLANGE	3
43	G-4	@ BENT 42	0.5' X 0.7'	BOTTOM FLANGE	3
43	G-4	@ BENT 42	0.6' X 0.6'	BOTTOM FLANGE	RT EXT
44	G-1	@ BENT 43	0.8' X 0.5'	BOTTOM FLANGE	1
44	G-1	@ BENT 44	1' X 0.5'	BOTTOM FLANGE	1
44	G-2	@ BENT 43	0.8' X 0.2'	BOTTOM FLANGE	1
44	G-2	@ BENT 44	1' X 0.8'	BOTTOM FLANGE	2
44	G-3	@ BENT 43	1.5' X 0.8'	BOTTOM FLANGE	2
45	G-1	@ BENT 45	0.7' X 0.8'	BOTTOM FLANGE	LT EXT
45	G-2	6' FROM BENT 45	3.5' X 0.6'	BOTTOM FLANGE	1
45	G-2	@ BENT 45	0.7' X 0.7'	BOTTOM FLANGE	2
45	G-2	8' FROM INTER. DIA.	3' X 0.3'	BOTTOM FLANGE	2
45	G-3	@ BENT 44	1.5' X 0.7'	BOTTOM FLANGE	3
46	G-2	@ BENT 45	0.7' X 0.5'	BOTTOM FLANGE	1
46	G-3	@ BENT 45	2.7' X 0.3'	BOTTOM FLANGE	2
46	G-3	@ BENT 46	0.7' X 0.5'	BOTTOM FLANGE	2
46	G-4	3' FROM BENT 45	3.3' X 0.5'	BOTTOM FLANGE	3
46	G-4	3' FROM BENT 46	3.2' X 0.4'	BOTTOM FLANGE	3
46	G-4	@ BENT 45	2.4' X 1.5'	BOTTOM FLANGE	3
47	G-2	2' FROM BENT 47	2.7' X 0.5'	BOTTOM FLANGE	1
47	G-2	@ BENT 47	0.5' X 0.7'	BOTTOM FLANGE	1
47	G-3	@ BENT 47	2.1' X 0.6'	BOTTOM FLANGE	2
47	G-3	@ BENT 47	1.8' X 0.4'	BOTTOM FLANGE	3
47	G-4	@ BENT 47	3.1' X 0.5'	BOTTOM FLANGE	3
47	G-4	5.5' FROM INTER. DIA.	3.5' X 0.6'	BOTTOM FLANGE	3
48	G-1	@ BENT 48	0.8' X 0.8'	BOTTOM FLANGE	1
48	G-2	@ BENT 48	0.9' X 0.8'	BOTTOM FLANGE	1
48	G-4	@ BENT 47	1.3' X 0.5'	BOTTOM FLANGE	RT EXT
49	G-2	@ BENT 48	1.3' X 0.8'	BOTTOM FLANGE	1
49	G-3	@ BENT 48	2.3' X 0.8'	BOTTOM FLANGE	2
49	G-3	@ BENT 49	0.6' X 0.6'	BOTTOM FLANGE	2
49	G-3	@ BENT 49	0.4' X 0.6'	BOTTOM FLANGE	3
49	G-4	@ BENT 48	1.2' X 1.2'	BOTTOM FLANGE	3
50	G-1	@ BENT 50	0.5' X 0.5'	BOTTOM FLANGE	1
50	G-3	@ BENT 49	0.5' X 1.3'	BOTTOM FLANGE	3
51	G-2	@ BENT 51	0.7' X 0.7'	BOTTOM FLANGE	1
51	G-2	@ BENT 51	0.7' X 0.7'	BOTTOM FLANGE	2
51	G-3	@ BENT 50	1.6' X 0.4'	BOTTOM FLANGE	2
51	G-4	@ BENT 50	3.3' X 0.8'	BOTTOM FLANGE	3
51	G-4	@ BENT 51	0.6' X 1.3'	BOTTOM FLANGE	3
52	END DIA.	@ BENT 51	2.5' X 0.8'	DIAPHRAGM	2
52	G-1	@ BENT 52	0.5' X 1.3'	BOTTOM FLANGE & WEB	1
52	G-2	@ BENT 51	2.3' X 0.7'	BOTTOM FLANGE	1
52	G-2	@ BENT 52	0.9' X 0.8'	BOTTOM FLANGE	1
52	G-4	@ BENT 51	1' X 0.5'	BOTTOM FLANGE	3
52	G-4	@ BENT 52	1' X 0.8'	BOTTOM FLANGE	3

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES					
SPAN	MEMBER	LENGTH FROM BENT (FT)	REPAIR SIZE	LOCATION	BAY
53	G-2	2.5' FROM INTER. DIA.	0.5' X 0.6'	BOTTOM FLANGE	1
53	G-3	@ BENT 52	0.3' X 0.5'	BOTTOM FLANGE	3
53	G-4	@ BENT 53	0.3' X 0.6'	BOTTOM FLANGE	3
54	G-3	3' FROM INTER. DIA.	0.7' X 0.7'	BOTTOM FLANGE	3
54	G-3	@ BENT 53	1.3' X 0.3'	BOTTOM FLANGE	2
54	G-4	3.5' FROM INTER. DIA.	0.3' X 0.3'	BOTTOM FLANGE	3
55	G-2	3' FROM INTER. DIA.	0.5' X 0.5'	BOTTOM FLANGE	2
55	G-2	@ BENT 55	0.3' X 0.6'	BOTTOM FLANGE	2
55	G-3	@ BENT 54	0.7' X 0.3'	BOTTOM FLANGE	3
55	G-3	@ BENT 55	1' X 0.6'	BOTTOM FLANGE	3
55	G-3	@ BENT 55	1.5' X 1'	BOTTOM FLANGE	2
55	G-4	@ BENT 54	0.5' X 0.6'	BOTTOM FLANGE	3
55	G-4	@ BENT 55	1.5' X 0.5'	BOTTOM FLANGE	RT EXT
56	G-1	@ BENT 56	1' X 0.7'	BOTTOM FLANGE	1
56	G-2	2.5' FROM BENT 56	0.3' X 0.3'	BOTTOM FLANGE	1
56	G-2	@ BENT 55	1' X 1'	BOTTOM FLANGE	1
56	G-2	@ BENT 56	1.3' X 0.7'	BOTTOM FLANGE	2
56	G-3	@ BENT 56	1' X 1.5'	BOTTOM FLANGE	2
56	G-4	@ BENT 55	0.7' X 0.6'	BOTTOM FLANGE	3
56	G-4	@ BENT 56	2.3' X 0.8'	BOTTOM FLANGE	3

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	MEMBER	REPAIR TYPE	QUANTITIES			ESTIMATE	ACTUAL		
			AREA SF	VOLUME CF	AREA SF			DEPTH FT	VOLUME CF
43	G-1	GIRDERS	8.34	3.48					
43	G-2	DIAPHRAGMS	0.00	0.00					
43	G-3	DECK	0.00	0.00					
44	G-1	GIRDERS	3.06	1.28					
44	G-2	DIAPHRAGMS	0.00	0.00					
44	G-3	DECK	0.00	0.00					
45	G-1	GIRDERS	5.10	2.13					
45	G-2	DIAPHRAGMS	0.00	0.00					
45	G-3	DECK	0.00	0.00					
46	G-1	GIRDERS	8.04	3.35					
46	G-2	DIAPHRAGMS	0.00	0.00					
46	G-3	DECK	0.00	0.00					
47	G-1	GIRDERS	7.33	3.05					
47	G-2	DIAPHRAGMS	0.00	0.00					
47	G-3	DECK	0.00	0.00					
48	G-1	GIRDERS	2.01	0.84					
48	G-2	DIAPHRAGMS	0.00	0.00					
48	G-3	DECK	0.00	0.00					
49	G-1	GIRDERS	4.92	2.05					
49	G-2	DIAPHRAGMS	0.00	0.00					
49	G-3	DECK	0.00	0.00					
50	G-1	GIRDERS	0.90	0.38					
50	G-2	DIAPHRAGMS	0.00	0.00					
50	G-3	DECK	0.00	0.00					
51	G-1	GIRDERS	5.04	2.10					
51	G-2	DIAPHRAGMS	0.00	0.00					
51	G-3	DECK	0.00	0.00					
52	G-1	GIRDERS	4.28	1.78					
52	G-2	DIAPHRAGMS	2.00	0.83					
52	G-3	DECK	0.00	0.00					
53	G-1	GIRDERS	0.63	0.26					
53	G-2	DIAPHRAGMS	0.00	0.00					
53	G-3	DECK	0.00	0.00					
54	G-1	GIRDERS	0.97	0.40					
54	G-2	DIAPHRAGMS	0.00	0.00					
54	G-3	DECK	0.00	0.00					
55	G-1	GIRDERS	3.79	1.58					
55	G-2	DIAPHRAGMS	0.00	0.00					
55	G-3	DECK	0.00	0.00					
56	G-1	GIRDERS	6.46	2.69					
56	G-2	DIAPHRAGMS	0.00	0.00					
56	G-3	DECK	0.00	0.00					

PROJECT NO. B-5936  
TYRRELL COUNTY  
BRIDGE NO. 7  
SHEET 5 OF 22

DocuSigned by:  
*Timothy M. Sheppard*  
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:	S-20
1			3			TOTAL SHEETS
2			4			394

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