

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
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
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

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
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
57	G-1	4' FROM BENT 56	0.5' X 0.5'		*BOTTOM FLANGE	1
57	G-1	@ BENT 57	0.7' X 0.7'		*BOTTOM FLANGE	1
57	G-1	@ BENT 57	0.7' X 0.8'		*BOTTOM FLANGE	LT EXT
57	G-2	@ BENT 56	2.3' X 0.5'		*BOTTOM FLANGE	2
57	G-2	@ BENT 56	0.7' X 0.7'		*BOTTOM FLANGE	1
57	G-3	@ BENT 56	0.2' X 0.8'		*BOTTOM FLANGE	2
57	G-3	@ BENT 57	2.5' X 0.7'		*BOTTOM FLANGE	3
57	G-4	@ BENT 56	0.2' X 0.8'		*BOTTOM FLANGE	3
58	G-1	15' FROM INTER. DIA.	4' X 0.6'		*BOTTOM FLANGE	RT EXT
58	G-1	@ BENT 58	2' X 0.6'		*BOTTOM FLANGE	1
58	G-2	15' FROM BENT 57	0.5' X 0.5'		*BOTTOM FLANGE & WEB	1
58	G-3	@ BENT 57	3' X 0.8'		*BOTTOM FLANGE	2
58	G-4	@ BENT 57	3' X 0.5'		*BOTTOM FLANGE	3
58	G-4	@ BENT 58	1' X 0.8'		*BOTTOM FLANGE	3

REPAIR QUANTITY TABLE					
	QUANTITIES				
	ESTIMATE		ACTUAL		
	AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
SHOTCRETE					
GIRDERS	0.00	0.00			
DIAPHRAGMS	2.00	1.00			
DECK	0.00	0.00			
PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL	AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
GIRDERS	63.03	18.38			

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


FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL, SEE SPECIAL PROVISIONS.

CONTRACTOR MAY ELECT TO USE PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL IN LIEU OF SHOTCRETE.

* ALL REPAIRS IN GIRDER FLANGE OR INCLUDING GIRDER FLANGE IN REPAIR SHALL BE PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL.

PROJECT NO. B-5936
TYRRELL COUNTY
BRIDGE NO. 7
SHEET 6 OF 22

DocuSigned by:

AD50B15977
PROFESSIONAL ENGINEER
SEAL
18565
TIMOTHY M. SHERRILL
1/13/2017

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GIRDER, DIAPHRAGM
& UNDERDECK REPAIRS

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21
1			3			TOTAL SHEETS
2			4			394