

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
15	G-2	@ BENT 14	0.8' X 0.6'		*BOTTOM FLANGE	2
15	G-2	@ BENT 14	0.8' X 0.6'		*BOTTOM FLANGE & WEB	1
15	G-2	@ BENT 15	0.8' X 0.5'		WEB	1
15	G-2	4' FROM INTER. DIA.	3' X 0.6'		*BOTTOM FLANGE	1
15	G-3	@ BENT 14	0.7' X 1.5'		*BOTTOM FLANGE	2
15	G-3	@ BENT 15	1' X 0.6'		*BOTTOM FLANGE	3
15	G-3	@ BENT 15	0.5' X 0.6'		*BOTTOM FLANGE	2
15	G-3	@ BENT 15	0.3' X 1.5'		*BOTTOM FLANGE	2
16	G-1	@ BENT 15	1.5' X 0.5'		*BOTTOM FLANGE	LT EXT
16	G-1	@ BENT 15	0.8' X 0.4'		WEB	RT EXT
16	G-2	@ BENT 15	0.8' X 0.5'		*BOTTOM FLANGE	1
16	G-2	2' FROM BENT 15	0.8' X 0.3'		WEB	1
16	G-3	@ BENT 15	0.5' X 0.6'		*BOTTOM FLANGE	3
16	G-4	@ BENT 16	1' X 0.5'		*BOTTOM FLANGE	RT EXT
17	G-1	@ BENT 16	0.7' X 0.6'		*BOTTOM FLANGE	1
17	G-2	@ BENT 16	0.4' X 1.5'		*BOTTOM FLANGE	1
17	G-2	@ BENT 17	0.7' X 0.6'		*BOTTOM FLANGE	2
17	G-2	@ BENT 17	0.7' X 0.6'		*BOTTOM FLANGE	1
17	G-3	@ BENT 16	5.7' X 0.8'		*BOTTOM FLANGE	2
17	G-3	@ BENT 16	0.8' X 0.8'		WEB	2
17	G-3	@ BENT 17	0.7' X 0.6'		*BOTTOM FLANGE	3
17	G-4	2' FROM BENT 16	1.5' X 0.5'		*BOTTOM FLANGE	RT EXT
17	G-4	@ BENT 16	0.3' X 1.7'		*BOTTOM FLANGE	3
17	G-4	3.5' FROM INTER. DIA.	0.3' X 0.6'		*BOTTOM FLANGE	3
18	G-1	@ BENT 17	1' X 0.6'		*BOTTOM FLANGE	1
18	G-1	@ BENT 18	1' X 1.5'		*BOTTOM FLANGE	LT EXT
18	G-2	@ BENT 18	0.8' X 0.6'		*BOTTOM FLANGE	1
19	G-1	@ BENT 18	0.1' X 0.6'		*BOTTOM FLANGE	LT EXT
19	G-4	@ BENT 19	0.8' X 0.6'		*BOTTOM FLANGE	3
20	G-1	@ BENT 20	1.5' X 1.5'		*BOTTOM FLANGE & WEB	1
20	G-2	@ BENT 16	1' X 0.6'		*BOTTOM FLANGE	1
20	G-2	@ BENT 16	2.5' X 0.7'		*BOTTOM FLANGE	3
20	G-2	@ BENT 20	1.3' X 0.8'		*BOTTOM FLANGE	2
20	G-2	@ BENT 20	1' X 0.3'		*BOTTOM FLANGE	1
20	G-2	3.5' FROM INTER. DIA.	0.3' X 0.3'		WEB	2
20	G-3	@ BENT 16	1.3' X 0.6'		*BOTTOM FLANGE	2
20	G-3	@ BENT 20	0.7' X 0.6'		*BOTTOM FLANGE	3
20	G-3	@ BENT 20	0.7' X 0.6'		*BOTTOM FLANGE	2
20	G-3	@ BENT 20	1' X 1.5'		*BOTTOM FLANGE	2
20	G-4	@ BENT 20	2.7' X 0.8'		*BOTTOM FLANGE	RT EXT
20	G-4	@ BENT 20	1' X 0.7'		*BOTTOM FLANGE	3
21	G-1	@ BENT 20	0.8' X 0.8'		*BOTTOM FLANGE	1
21	G-1	@ BENT 20	2.3' X 0.8'		*BOTTOM FLANGE	LT EXT
21	G-2	@ BENT 20	0.5' X 1.5'		*BOTTOM FLANGE	1
21	G-2	@ BENT 20	3' X 9'		*BOTTOM FLANGE	1
21	G-2	@ BENT 21	1' X 0.8'		*BOTTOM FLANGE	1
21	G-3	@ BENT 20	1' X 0.6'		*BOTTOM FLANGE	3
21	G-3	@ BENT 20	2.5' X 1'		*BOTTOM FLANGE	2
21	G-4	@ BENT 20	1.5' 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
21	G-4	@ BENT 21	0.6' X 0.6'		*BOTTOM FLANGE	3
22	G-1	@ BENT 21	2.5' X 0.8'		*BOTTOM FLANGE	1
22	G-2	@ BENT 21	0.8' X 0.6'		*BOTTOM FLANGE	2
22	G-2	@ BENT 21	4' X 0.5'		*BOTTOM FLANGE	2
22	G-2	@ BENT 21	0.7' X 0.6'		*BOTTOM FLANGE	1
22	G-2	@ BENT 22	0.6' X 1.5'		*BOTTOM FLANGE	1
22	G-2	@ BENT 22	0.8' X 0.6'		*BOTTOM FLANGE	1
23	G-1	@ BENT 22	1' X 0.6'		*BOTTOM FLANGE	1
23	G-2	@ BENT 23	0.7' X 0.6'		*BOTTOM FLANGE	1
23	G-3	@ BENT 23	0.7' X 0.6'		*BOTTOM FLANGE	2
23	G-4	@ BENT 23	0.5' X 0.6'		*BOTTOM FLANGE	RT EXT
23	G-4	@ BENT 23	6' X 0.6'		*BOTTOM FLANGE	3
24	G-1	@ BENT 23	0.7' X 0.5'		*BOTTOM FLANGE	1
24	G-1	@ BENT 24	1' X 0.6'		*BOTTOM FLANGE	LT EXT
24	G-2	@ BENT 23	0.5' X 0.5'		*BOTTOM FLANGE	1
24	G-2	@ BENT 24	0.8' X 0.6'		*BOTTOM FLANGE	2
24	G-3	@ BENT 23	2.3' X 0.8'		*BOTTOM FLANGE	2
24	G-3	@ BENT 24	0.7' X 0.6'		*BOTTOM FLANGE	2
24	G-4	@ BENT 23	0.5' X 0.6'		*BOTTOM FLANGE	3
25	G-2	1' FROM INTER. DIA.	0.5' X 0.3'		WEB	2
25	G-2	@ BENT 24	0.5' X 0.5'		*BOTTOM FLANGE	1
25	G-2	@ BENT 25	0.5' X 0.6'		*BOTTOM FLANGE	1
25	G-3	2' FROM INTER. DIA.	5' X 0.6'		*BOTTOM FLANGE	2
25	G-3	@ BENT 25	0.8' X 0.8'		*BOTTOM FLANGE	3
25	G-4	1' FROM INTER. DIA.	3' X 0.6'		*BOTTOM FLANGE	3
25	G-4	@ BENT 24	0.5' X 0.5'		*BOTTOM FLANGE	3
25	G-4	@ BENT 25	0.5' X 0.6'		*BOTTOM FLANGE	3
26	G-1	@ BENT 25	1.5' X 1.5'		*BOTTOM FLANGE & WEB	LT EXT
26	G-1	4.5' FROM INTER. DIA.	2' X 0.5'		*BOTTOM FLANGE	1
26	G-2	@ BENT 25	1.3' X .7'		*BOTTOM FLANGE	2
26	G-2	@ BENT 25	1.3' X 1.5'		*BOTTOM FLANGE & WEB	1
26	G-3	@ BENT 26	1' X 0.6'		*BOTTOM FLANGE	2
26	G-4	@ BENT 26	4.5' X 0.8'		*BOTTOM FLANGE	3
27	G-1	2.5' FROM INTER. DIA.	2' X 0.5'		*BOTTOM FLANGE	1
27	G-1	@ BENT 26	1' X 0.8'		*BOTTOM FLANGE	LT EXT
27	G-2	1.5' FROM INTER. DIA.	1.8' X 0.3'		WEB	1
27	G-3	@ BENT 26	4.5' X 1'		*BOTTOM FLANGE	2
27	G-3	@ BENT 27	9' X 0.6'		*BOTTOM FLANGE	2
27	G-3	@ BENT 27	1' X 1'		*BOTTOM FLANGE	3
27	G-4	@ BENT 26	4.5' X 1'		*BOTTOM FLANGE	3
27	G-4	@ BENT 27	3' X 0.5'		*BOTTOM FLANGE	RT EXT
28	G-1	@ BENT 27	0.5' X 0.6'		*BOTTOM FLANGE	1
28	G-1	@ BENT 27	3.5' X 0.6'		*BOTTOM FLANGE	LT EXT
28	G-1	@ BENT 28	0.6' X 0.6'		*BOTTOM FLANGE	1
28	G-2	@ BENT 28	4' X 0.8'		*BOTTOM FLANGE	1
28	G-3	@ BENT 27	5' X 0.6'		*BOTTOM FLANGE	2
28	G-4	@ BENT 28	1' X 0.6'		*BOTTOM FLANGE	3

REPAIR QUANTITY TABLE						
SPAN	MEMBER	LENGTH FROM BENT (FT)	QUANTITIES			
			ESTIMATE		ACTUAL	
			AREA SF	VOLUME CF	AREA SF	DEPTH FT
15-28	SHOTCRETE					
	GIRDERS		2.38	0.69		
	DIAPHRAGMS		0.00	0.00		
	DECK		0.00	0.00		
15-28	PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL					
	GIRDERS		129.05	37.64		

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 4 OF 22

DocuSigned by:

AD50B15974404CC0K
SEAL
18565
ENGINEER
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:	
1			3			S-19
2			4			TOTAL SHEETS 394