

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
2	END DIA.	@ BENT 1	2.2' X 0.6'		DIAPHRAGM	3
2	G-1	@ BENT 2	2.2' X 1'		* BOTTOM FLANGE	2
2	G-1	@ BENT 2	1.5' X 1.2'		WEB	1
2	G-1	@ BENT 2	0.9' X 1'		* BOTTOM FLANGE	1
2	G-1	@ BENT 2	0.4' X 1.3'		* BOTTOM FLANGE & WEB	1
2	G-1	@ BENT 1	3.7' X 1.3'		* BOTTOM FLANGE	LT EXT
2	G-1	10' FROM BENT 2	3' X 0.4'		* BOTTOM FLANGE	1
2	G-1	2' FROM BENT 1	0.3' X 1.2'		WEB	1
2	G-1	2' FROM BENT 2	0.6' X 1.2'		WEB	1
2	G-2	@ BENT 2	0.9' X 1.3'		* BOTTOM FLANGE & WEB	2
2	G-2	@ BENT 2	1' X 1.8'		* BOTTOM FLANGE & WEB	2
2	G-2	2' FROM INTER. DIA.	0.8' X 0.7'		WEB	2
2	G-2	@ BENT 2	2' X 2'		WEB	2
2	G-2	@ BENT 2	2' X 2'		* BOTTOM FLANGE	1
2	G-2	@ BENT 2	10.5' X 1.2'		WEB	2
2	G-2	@ BENT 2	1.3' X 0.7'		* BOTTOM FLANGE	1
2	G-2	@ BENT 2	0.8' X 1.2'		WEB	1
2	G-2	10.5' FROM BENT 2	1.2' X 1.2'		WEB	1
2	G-2	7' FROM BENT 2	0.6' X 0.6'		* BOTTOM FLANGE	2
2	G-3	@ BENT 2	1.1' X 1'		* BOTTOM FLANGE	3
2	G-3	@ BENT 2	2' X 2'		WEB	3
2	G-3	@ BENT 1	2' X 2'		WEB	2
2	G-3	@ BENT 2	1.8' X 2'		* BOTTOM FLANGE	2
2	G-3	3' FROM INTER. DIA.	1.5' X 1.2'		WEB	2
2	G-3	@ BENT 2	1.6' X 1'		* BOTTOM FLANGE	2
2	G-3	@ BENT 2	1.1' X 1.3'		WEB	2
2	G-3	13' FROM BENT 1	13' X 3'		WEB	3
2	G-4	@ BENT 1	1.5' X 1'		WEB	RT EXT
2	G-4	@ BENT 2	0.8' X 1.2'		WEB	RT EXT
2	G-4	@ BENT 2	1' X 0.6'		WEB	3
2	G-4	@ BENT 1	50' X 2'		WEB	3
2	G-4	@ BENT 2	1.1' X 1.5'		* BOTTOM FLANGE	3
2	G-4	@ BENT 2	3' X 2'		WEB	3
2	G-4	2' FROM BENT 1	0.8' X 1.5'		WEB	RT EXT
2	G-4	6' FROM END BENT 1	0.5' X 1'		* BOTTOM FLANGE	RT EXT
2	G-4	8' FROM BENT 1	0.7' X 0.7'		* BOTTOM FLANGE	3
2	INTER. DIA.	25' FROM BENT 1	0.2' X 1.1'		DIAPHRAGM	3
2	INTER. DIA.	25' FROM BENT 1	1' X 0.4'		DIAPHRAGM	2

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
3	DECK	2' FROM BENT 2	3.2' X 3.3'		BOTTOM OF DECK	1
3	DECK	3' FROM BENT 2	2' X 2'		BOTTOM OF DECK	1
3	DECK	5' FROM BENT 2	2' X 0.8'		BOTTOM OF DECK	1
3	DECK	8' FROM BENT 2	2' X 2'		BOTTOM OF DECK	1
3	DECK	4' FROM BENT 2	1.2' X 0.8'		BOTTOM OF DECK	3
3	END DIA.	@ BENT 2	1.5' X 1'		DIAPHRAGM	1
3	END DIA.	@ BENT 2	0.8' X 1.2'		DIAPHRAGM	1
3	END DIA.	@ BENT 2	0.7' X 1.5'		DIAPHRAGM	1
3	END DIA.	@ BENT 2	4' X 0.6'		DIAPHRAGM	3
3	G-1	@ BENT 2	1.3' X 1'		WEB	LT EXT
3	G-1	@ BENT 2	1' X 0.6'		* BOTTOM FLANGE	1
3	G-1	@ BENT 2	1' X 0.2'		* BOTTOM FLANGE & WEB	1
3	G-1	10' FROM BENT 2	3.2' X 0.4'		* BOTTOM FLANGE	LT EXT
3	G-2	@ BENT 2	0.9' X 2'		* BOTTOM FLANGE & WEB	1
3	G-2	@ BENT 3	5' X 0.5'		* BOTTOM FLANGE	1
3	G-2	@ BENT 3	2' X 2'		WEB	1
3	G-2	@ BENT 3	1' X 1.3'		* BOTTOM FLANGE & WEB	2
3	G-2	@ BENT 2	11.5' X 1.2'		WEB	2
3	G-2	@ BENT 2	5' X 0.5'		* BOTTOM FLANGE	2
3	G-2	4' FROM INTER. DIA.	3.5' X 0.5'		* BOTTOM FLANGE	2
3	G-2	4' FROM BENT 3	2' X 1'		WEB	2
3	G-3	@ BENT 3	1.2' X 1.3'		* BOTTOM FLANGE & WEB	2
3	G-3	@ BENT 2	2.2' X 1'		* BOTTOM FLANGE	3
3	G-3	@ BENT 2	0.8' X 0.6'		* BOTTOM FLANGE	3
3	G-3	@ BENT 2	0.8' X 0.6'		* BOTTOM FLANGE	3
3	G-3	2' FROM BENT 2	8.3' X 1.2'		WEB	2
3	G-3	2' FROM BENT 3	0.9' X 1.2'		WEB	2
3	G-3	2.5' FROM BENT 2	3.7' X 1.2'		WEB	3
3	G-3	5' FROM BENT 2	4' X 0.8'		* BOTTOM FLANGE	2
3	G-3	9' FROM BENT 3	4.5' X 0.5'		* BOTTOM FLANGE	2
3	G-4	@ INTER. DIA.	4.5' X 0.8'		* BOTTOM FLANGE	3
3	G-4	@ BENT 2	1.7' X 1'		* BOTTOM FLANGE	RT EXT
3	G-4	@ BENT 2	4' X 1.2'		WEB	RT EXT
3	G-4	@ BENT 3	0.5' X 0.7'		* BOTTOM FLANGE	RT EXT
3	G-4	@ BENT 2	14' X 1.2'		WEB	3
3	G-4	@ BENT 2	17' X 1'		* BOTTOM FLANGE	3
3	G-4	2' FROM INTER. DIA.	6' X 0.8'		* BOTTOM FLANGE	3
3	G-4	5' FROM BENT 3	1.2' X 0.8'		WEB	3

REPAIR QUANTITY TABLE					
	QUANTITIES				
	ESTIMATE		ACTUAL		
	AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
SHOTCRETE					
GIRDERS	242.07	70.60			
DIAPHRAGMS	7.85	3.93			
DECK	21.12	10.56			
PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL	AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
	GIRDERS	76.36	22.27		

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.

SPAN 2 & 3

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

SHEET 2 OF 22

DocuSigned by:  
  
AD50B159778ACC2K  
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

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			394