

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
104	G-2	@ BENT 104	0.5' X 0.5'		*BOTTOM FLANGE	1
104	G-3	@ BENT 103	0.5' X 0.5'		*BOTTOM FLANGE	2
105	G-2	@ BENT 104	0.5' X 0.5'		*BOTTOM FLANGE	1
105	G-2	@ BENT 105	0.5' X 0.5'		*BOTTOM FLANGE	1
105	G-4	@ BENT 105	0.5' X 0.5'		*BOTTOM FLANGE	3
106	G-2	@ BENT 105	2' X 0.5'		*BOTTOM FLANGE	1
106	G-2	@ BENT 106	0.5' X 0.5'		*BOTTOM FLANGE	1
106	G-3	@ BENT 106	0.5' X 0.5'		*BOTTOM FLANGE	2
107	END DIA.	@ BENT 106	1' X 0.5'		DIAPHRAGM	3
107	END DIA.	@ BENT 107	3' X 0.7'		DIAPHRAGM	2
107	G-1	@ BENT 106	0.5' X 0.5'		*BOTTOM FLANGE	1
107	G-2	@ BENT 107	1.2' X 1.2'		*BOTTOM FLANGE & WEB	1
107	G-2	@ BENT 107	0.5' X 0.5'		*BOTTOM FLANGE	2
107	G-3	@ BENT 107	0.7' X 1'		*BOTTOM FLANGE	2
107	G-4	30' FROM BENT 106	0.5' X 0.5'		*BOTTOM FLANGE	3
107	G-4	@ BENT 107	0.7' X 1'		*BOTTOM FLANGE	3
108	G-2	@ BENT 107	0.5' X 0.5'		*BOTTOM FLANGE	2
108	G-2	@ BENT 108	0.5' X 0.5'		*BOTTOM FLANGE	2
109	G-1	@ BENT 108	0.5' X 0.5'		*BOTTOM FLANGE	1
109	G-2	@ BENT 109	0.6' X 0.2'		*BOTTOM FLANGE	1
109	G-2	@ BENT 109	0.5' X 0.3'		*BOTTOM FLANGE	3
109	G-2	2' FROM BENT 108	0.4' X 0.5'		*BOTTOM FLANGE	2
109	G-2	@ BENT 108	0.3' X 0.6'		*BOTTOM FLANGE	2
109	G-3	@ BENT 109	0.8' X 0.7'		*BOTTOM FLANGE	RT EXT
109	G-3	@ BENT 108	0.4' X 1.3'		*BOTTOM FLANGE	3
109	G-3	@ BENT 108	0.7' X 0.8'		*BOTTOM FLANGE	3
109	G-4	@ BENT 108	0.3' X 0.8'		*BOTTOM FLANGE	LT EXT
110	END DIA.	@ BENT 109	1.7' X 0.8'		DIAPHRAGM	2
110	END DIA.	@ BENT 109	2.3' X 0.6'		DIAPHRAGM	2
110	G-1	@ BENT 109	0.3' X 0.7'		WEB	1
110	G-1	@ BENT 109	1' X 0.8'		*BOTTOM FLANGE	1
110	G-1	@ BENT 109	0.4' X 0.4'		*BOTTOM FLANGE	1
110	G-2	@ BENT 110	0.6' X 0.5'		*BOTTOM FLANGE	1
110	G-2	@ BENT 110	0.6' X 0.7'		*BOTTOM FLANGE	RT EXT
110	G-3	@ BENT 109	1' X 1.3'		*BOTTOM FLANGE & WEB	2
110	G-3	@ BENT 109	2.1' X 0.8'		*BOTTOM FLANGE	3
110	G-4	@ BENT 109	0.5' X 1.3'		*BOTTOM FLANGE & WEB	LT EXT
111	END DIA.	@ BENT 110	2.5' X 0.5'		DIAPHRAGM	2
111	END DIA.	@ BENT 110	3' X 1'		DIAPHRAGM	3
111	END DIA.	@ BENT 110	0.8' X 1.3'		DIAPHRAGM	RT EXT
111	G-1	@ BENT 110	0.6' X 0.7		*BOTTOM FLANGE	1
111	G-3	@ BENT 110	0.5' X 1.4'		*BOTTOM FLANGE & WEB	2
111	G-3	@ BENT 110	0.6' X 1.5'		*BOTTOM FLANGE	2
111	G-3	@ BENT 110	0.6' X 1.4'		*BOTTOM FLANGE & WEB	3
111	G-4	@ BENT 110	0.9' X 0.8'		*BOTTOM FLANGE & WEB	LT EXT
111	G-4	@ BENT 110	0.4' X 1.4'		*BOTTOM FLANGE & WEB	3
111	G-4	@ BENT 110	0.4' X 0.3'		*BOTTOM FLANGE	RT EXT

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
112	DECK	2' FROM BENT 112	0.5' X 0.7'		BOTTOM OF DECK	3
112	END DIA.	@ BENT 111	2' X 0.6'		DIAPHRAGM	1
112	END DIA.	@ BENT 111	3' X 1'		DIAPHRAGM	2
112	END DIA.	@ BENT 111	1.5' X 0.8'		DIAPHRAGM	3
112	END DIA.	@ BENT 111	1.3' X 1.5'		DIAPHRAGM	RT EXT
112	END DIA.	@ BENT 112	1.7' X 0.5'		DIAPHRAGM	1
112	END DIA.	@ BENT 112	0.8' X 0.3'		DIAPHRAGM	3
112	END DIA.	@ BENT 112	1.4' X 1.3'		DIAPHRAGM	RT EXT
112	END DIA.	@ BENT 111	1.5' X 1.3'		DIAPHRAGM	LT EXT
112	G-1	@ BENT 111	0.3' X 0.8'		*BOTTOM FLANGE	LT EXT
112	G-1	@ BENT 111	0.8' X 0.7'		*BOTTOM FLANGE	1
112	G-2	@ BENT 111	1.2' X 0.8'		*BOTTOM FLANGE	1
112	G-2	@ BENT 111	0.8' X 1.5'		*BOTTOM FLANGE	2
112	G-2	@ BENT 111	0.6' X 0.6'		*BOTTOM FLANGE	2
112	G-2	@ BENT 111	0.6' X 1.4'		*BOTTOM FLANGE	2
112	G-2	2' FROM BENT 111	0.6' X 0.6'		WEB	3
112	G-3	@ BENT 111	0.4' X 1.4'		*BOTTOM FLANGE & WEB	3
112	G-3	@ BENT 112	0.4' X 0.8'		*BOTTOM FLANGE	2
112	G-3	@ BENT 112	0.8' X 0.6'		*BOTTOM FLANGE	3
112	G-4	@ BENT 111	0.5' X 0.7'		*BOTTOM FLANGE	3
112	G-4	@ BENT 112	0.4' X 0.7'		*BOTTOM FLANGE	LT EXT
112	G-4	@ BENT 112	0.7' X 0.6'		*BOTTOM FLANGE	3
113	END DIA.	@ BENT 113	1.3' X 1.4'		DIAPHRAGM	LT EXT
113	END DIA.	@ BENT 113	1.4' X 2.2'		DIAPHRAGM	1
113	END DIA.	@ BENT 113	1.4' X 1.7'		DIAPHRAGM	1
113	END DIA.	@ BENT 113	1' X 1.5'		DIAPHRAGM	2
113	END DIA.	@ BENT 113	1.3' X 2'		DIAPHRAGM	RT EXT
113	END DIA.	@ BENT 113	1.2' X 2'		DIAPHRAGM	3
113	END DIA.	@ BENT 113	1.2' X 1.2'		DIAPHRAGM	3
113	END DIA.	@ BENT 113	0.8' X 0.8'		DIAPHRAGM	RT EXT
113	END DIA.	@ BENT 112	3' X 1'		DIAPHRAGM	1
113	END DIA.	@ BENT 112	3' X 1'		DIAPHRAGM	2
113	END DIA.	@ BENT 112	0.8' X 1.5'		DIAPHRAGM	3
113	G-1	@ BENT 113	0.8' X 0.7'		*BOTTOM FLANGE	1
113	G-1	@ BENT 112	0.6' X 0.5'		*BOTTOM FLANGE & WEB	1
113	G-2	@ BENT 112	0.7' X 0.5'		*BOTTOM FLANGE	2
113	G-3	@ BENT 112	0.7' X 0.7'		*BOTTOM FLANGE & WEB	3
113	G-4	@ BENT 112	0.8' X 0.7'		*BOTTOM FLANGE & WEB	3
114	END DIA.	@ BENT 114	1.2' X 0.7'		DIAPHRAGM	1
114	END DIA.	@ BENT 113	0.8' X 1'		DIAPHRAGM	LT EXT
114	END DIA.	@ BENT 113	1' X 3.1'		DIAPHRAGM	1
114	END DIA.	@ BENT 113	1.7' X 1.5'		DIAPHRAGM	1
114	END DIA.	@ BENT 113	1.4' X 1.4'		DIAPHRAGM	2
114	END DIA.	@ BENT 113	1.3' X 2'		DIAPHRAGM	2
114	END DIA.	@ BENT 113	1.3' X 2'		DIAPHRAGM	3
114	END DIA.	@ BENT 113	1.7' X 1.8'		DIAPHRAGM	2
114	END DIA.	@ BENT 113	0.5' X 0.7'		DIAPHRAGM	RT EXT
114	G-2	@ BENT 113	1.4' X 0.3'		*BOTTOM FLANGE	2
114	G-4	@ BENT 114	1.8' X 0.9'		*BOTTOM FLANGE	LT EXT

REPAIR QUANTITY TABLE						
SPAN 104-114	REPAIR TYPE	QUANTITIES				
		ESTIMATE		ACTUAL		
		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
	SHOTCRETE					
	GIRDERS	0.57	0.17			
	DIAPHRAGMS	62.06	31.03			
	DECK	0.35	0.18			
	PRESTRESSED CONCRETE GIRDER FLANGE REPAIR MATERIAL					
	GIRDERS	30.06	8.77			

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 10 OF 22

DocuSigned by:

AD50B1977494CC
PROFESSIONAL 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:	TOTAL SHEETS
1			3			5-25
2			4			394