

GIRDER, DIAPHRAGM, & UNDERDECK REPAIR TABLES

SPAN	MEMBER	LENGTH FROM BENT (FT.)	REPAIR SIZE	LOCATION	BAY
1	DECK	@ BENT 1	27" x 18"	BOTTOM OF DECK	LT. EXT.
1	G5	33.6' FROM BENT 1	10" x 9"	BOTTOM FLANGE	---
1	G7	28' FROM END BENT	11.5" x 8.5"	BOTTOM FLANGE	---
2	DECK	34' FROM BENT 1	31" x 22"	BOTTOM OF DECK	RT. EXT.
2	G1	2.5' FROM BENT CAP 2	10" x 9"	BOTTOM FLANGE	---
2	G1	1.5" FROM BENT CAP 2	11" x 8"	BOTTOM FLANGE	---
2	G1	11' FROM BENT CAP 1	9" x 7"	BOTTOM FLANGE	---
2	G1	22.5' FROM BENT CAP 2	14" x 10"	BOTTOM FLANGE	---
2	G1	20.5' FROM BENT CAP 1	360" x 12"	BOTTOM FLANGE	---
2	G1	26.0' FROM BENT CAP 2	14" x 10"	BOTTOM FLANGE	---
2	G2	BRG. PLATE @ BENT 2	18" x 10"	BOTTOM FLANGE	---
2	G7	2' FROM FACE OF BENT 1	20" x 7"	BOTTOM FLANGE	---
2	G7	24" FROM BENT 1	120" x 10"	BOTTOM FLANGE	---
2	G7	1.5' FROM BENT 1	3 @ 10" x 10"	BOTTOM FLANGE	---
3	DECK	16' FROM BENT 2	10" x 8"	BOTTOM OF DECK	6
3	END DIAPHRAGM	@ BENT 2	14" x 10"	FACE OF DIAPHRAGM	1
3	G2	24' FROM BENT 2	4 @ 12" x 7"	BOTTOM FLANGE	---
3	G2	24' FROM BENT 2	12" x 10"	BOTTOM FLANGE	---
3	G3	2.5' FROM BENT 3	13" x 7"	BOTTOM FLANGE	---
3	G4	1.75' FROM BENT 3	17" x 13"	BOTTOM FLANGE	---
3	G5	1' FROM BENT 3	35" x 15"	BOTTOM FLANGE	---
3	G5	@ BENT 3	10" x 6"	BOTTOM RT. CHAMFER	---
3	G7	@ BENT 2	11" x 7"	BOTTOM FLANGE AND RT. FACE	---
3	G7	2.75' FROM BENT 3	17" x 9"	BOTTOM FLANGE	---
4	DECK	@ BENT 4	21" x 10"	BOTTOM OF DECK	LT. EXT.
4	G1	13' FROM BENT 4	8" x 7"	BOTTOM FLANGE	---
4	G3	28' FROM BENT 3	8" x 7"	BOTTOM FLANGE	---
4	G4	2' FROM BENT 3	8 @ 11" x 8"	BOTTOM FLANGE	---
4	G5	1' FROM BENT 4	37" x 14"	*BOTTOM FLANGE & RT. FACE OF BOTTOM FLANGE	---
5	DECK	34' FROM BENT 4	24" x 21"	BOTTOM OF DECK	RT. EXT.
5	G2	6' FROM BENT 4	9 @ 13" x 7"	BOTTOM FLANGE	---
5	G2	14' FROM BENT 4	12" x 8"	BOTTOM FLANGE	---
5	G2	24' FROM BENT 4	10" x 6"	BOTTOM FLANGE	---
5	G2	34' FROM BENT 4	9 @ 16" x 6"	BOTTOM FLANGE	---
5	G2	11' FROM BENT 5	13 @ 18" x 6"	BOTTOM FLANGE	---
5	G2	0.5' FROM BENT 5	30" x 13"	BOTTOM FLANGE	---
5	G5	5' FROM BENT 5	24" x 6"	BOTTOM FLANGE AND RT. FACE	---
6	G1	19' FROM BENT 6	8" x 7"	BOTTOM FLANGE	---
6	G2	22' FROM BENT 5	3 @ 20" x 9"	BOTTOM FLANGE	---
6	G5	26' FROM BENT 5	432" x 17"	BOTTOM FLANGE	---
6	G6	0.5' FROM BENT 5	10" x 6"	BOTTOM FLANGE	---
6	G8	24.5 FROM BENT 5	4 @ 11" x 8"	BOTTOM FLANGE	---
7	G5	@ BENT 7	12" x 6"	BOTTOM FLANGE	---

GIRDER, DIAPHRAGM, & UNDERDECK REPAIR TABLES

SPAN	MEMBER	LENGTH FROM BENT (FT.)	REPAIR SIZE	LOCATION	BAY
8	DECK	34' FROM BENT 7	29" x 20"	BOTTOM OF DECK	RT. EXT.
8	DECK	34' FROM BENT 7	23" x 16"	BOTTOM OF DECK	RT. EXT.
8	DECK	15.5' FROM BENT 8	24" x 13"	BOTTOM OF DECK	4
8	DECK	17.5' FROM BENT 8	19" x 13"	BOTTOM OF DECK	5
8	G1	@ BENT 7	17" x 7"	TOP LEFT CHAMFER	---
8	G1	@ BENT 8	20" x 5"	TOP LEFT CHAMFER	---
8	G2	17' FROM BENT 7	13" x 11"	BOTTOM FLANGE	---
8	G2	24' FROM BENT 7	10" x 10"	BOTTOM FLANGE	---
8	G2	28' FROM BENT 8	12" x 9"	BOTTOM FLANGE	---
8	G2	26' FROM BENT 8	10" x 7"	BOTTOM FLANGE	---
8	G2	23' FROM BENT 8	9" x 9"	BOTTOM FLANGE	---
8	G2	16' FROM BENT 8	10" x 8"	BOTTOM FLANGE	---
8	G2	13' FROM BENT 8	13" x 11"	BOTTOM FLANGE	---
8	G3	21' FROM BENT 7	12" x 9"	BOTTOM FLANGE	---
8	G3	34' FROM BENT 7	24" x 12"	BOTTOM FLANGE	---
8	G5	@ BENT 8	31" x 24"	BOTTOM FLANGE	---
8	G5	@ BENT 8	18" x 9"	RT. FACE OF BOTTOM FLANGE	---
8	G5	3.5' FROM BENT 8	11" x 10"	BOTTOM FLANGE	---
8	G6	20' FROM BENT 7	11" x 8"	BOTTOM FLANGE	---
8	G7	13' FROM BENT 7	12" x 10"	BOTTOM FLANGE	---
8	G7	23' FROM BENT 8	12" x 10"	BOTTOM FLANGE	---
8	G7	23' FROM BENT 8	11" x 10"	BOTTOM FLANGE	---
8	G9	13' FROM BENT 7	24" x 11"	BOTTOM FLANGE	---
9	DECK	13' FROM BENT 9	10" x 9"	BOTTOM OF DECK	5
9	G1	7' FROM BENT 9	24" x 14"	BOTTOM FLANGE	---
9	G5	1' FROM BENT 9	73" x 24"	BOTTOM FLANGE & RT. FACE OF BOTTOM FLANGE	---
9	G5	1' FROM BENT 9	50" x 24"	BOTTOM FLANGE	---
9	G9	14' FROM BENT 8	22" x 11"	BOTTOM FLANGE	---
9	G9	19' FROM BENT 8	12" x 12"	BOTTOM FLANGE	---
9	G9	22' FROM BENT 8	19" x 16"	BOTTOM FLANGE	---
9	G9	4' FROM BENT 8	24" x 24"	BOTTOM FLANGE	---
9	G9	10' FROM BENT 8	9" x 8"	BOTTOM FLANGE	---
9	G9	11' FROM BENT 8	10" x 6"	BOTTOM FLANGE	---
9	G9	17' FROM BENT 8	12" x 11"	BOTTOM FLANGE	---
9	G9	20' FROM BENT 9	18" x 16"	BOTTOM FLANGE	---

NOTES:

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE. REPAIR DEPTHS VARY FROM 1 1/2" TO 3 1/2" DEPENDING ON LOCATION.

*REPAIR IS CLASSIFIED UNDER "REPAIRS TO CONCRETE GIRDERS" SPECIAL PROVISION.

REPAIR QUANTITY TABLE

	SHOTCRETE	ESTIMATE		ACTUAL		
		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
SPAN 1	GIRDERS	1.30	0.16			
	DIAPHRAGMS	---	---			
	DECK	3.38	1.41			
SPAN 2	GIRDERS	46.26	6.15			
	DIAPHRAGMS	---	---			
	DECK	4.74	1.58			
SPAN 3	GIRDERS	10.99	1.98			
	DIAPHRAGMS	0.97	0.12			
	DECK	0.56	0.14			
SPAN 4	GIRDERS	5.67	0.71			
	DIAPHRAGMS	---	---			
	DECK	1.46	0.61			
SPAN 5	GIRDERS	26.23	3.67			
	DIAPHRAGMS	---	---			
	DECK	3.50	0.88			
SPAN 6	GIRDERS	58.00	7.25			
	DIAPHRAGMS	---	---			
	DECK	---	---			
SPAN 7	GIRDERS	0.50	0.10			
	DIAPHRAGMS	---	---			
	DECK	---	---			
SPAN 8	GIRDERS	21.24	3.83			
	DIAPHRAGMS	---	---			
	DECK	10.47	1.74			
SPAN 9	GIRDERS	34.54	5.07			
	DIAPHRAGMS	---	---			
	DECK	0.63	0.10			

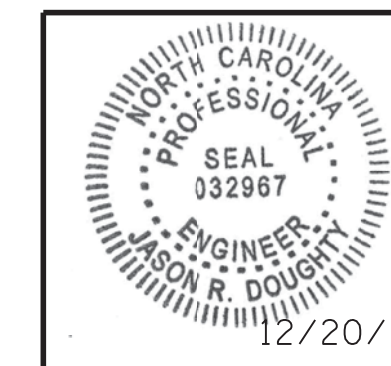
REPAIRS TO P/S CONC.	ESTIMATE		ACTUAL		
	AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
SPAN 4	GIRDERS	3.60	1.50		

PROJECT NO. 15BPR.15
NEW HANOVER COUNTY
 STATION: _____

SHEET 1 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GIRDER, DIAPHRAGM AND UNDERDECK REPAIRS



DocuSigned by:
 Jason R Doughty
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-38
2			4			TOTAL SHEETS 66

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