



Beam Type	Beam Length (feet)	Number of Strands Required	
		Row ①	Row ②
B12	12	9	1
	14	10	1
	16	11	1
	18	12	1
	20	12	1
	22	12	2
	24	13	2
	26	13	4

Beam Type	Beam Length (feet)	BAR QUANTITIES			DESIGN DATA					
		C1	C2	C3	DC (Kips)	DW (Kips)	LL (Kips)	LL+I (Kips)	Δd (in.)	Δc (in.)
B12	12	25	2		3.9	0.4	27.8	36.3		
	14	29	2		4.6	0.4	29.1	37.8		
	16	33	2		5.2	0.5	30.1	39.1		
	18	37	2		5.8	0.5	31.0	40.1		
	20	41	2		6.5	0.6	31.8	41.0		
	22	45	2		7.1	0.6	32.5	41.9		
	24	49	2		7.8	0.7	33.2	42.6		
	26	53	2		8.4	0.7	33.8	43.4		

MARK	SIZE	LENGTH
A1(E)	#5	Beam Length Minus 3'
A2(E)	#4	Beam Length Minus 3'
D(E)	#8	2'-0"

Beam Type	Beam Length (feet)	"F"	"G"			
B12	12	6 1/2"				
	14	5"				
	16	8"				
	18	6 1/2"				
	22	5"				
	24	6 1/2"				
	26	5"				

PROJECT NO.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:	DATE:	SCALE:
2071-08	G.R.	M.S.E.	G.R.	G.R.	JULY 2018	AS SHOWN

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BRIDGE REPLACEMENT
GARRARD COUNTY, KENTUCKY

BOX BEAM - B12 DETAILS