

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR LYNDO TIPPETT Secretary

MEMORANDUM TO:	Project Engineers Project Design Engineers
FROM:	G. R. Perfetti, P. E. State Bridge Design Engineer
DATE:	July 28, 2005
SUBJECT:	DESIGN MANUAL FIGURE 11-3

Design Manual Figure 11-3 has been updated to include Box Beam girders. The figure is attached for immediate use.

The Design Manual will be updated at a later date.

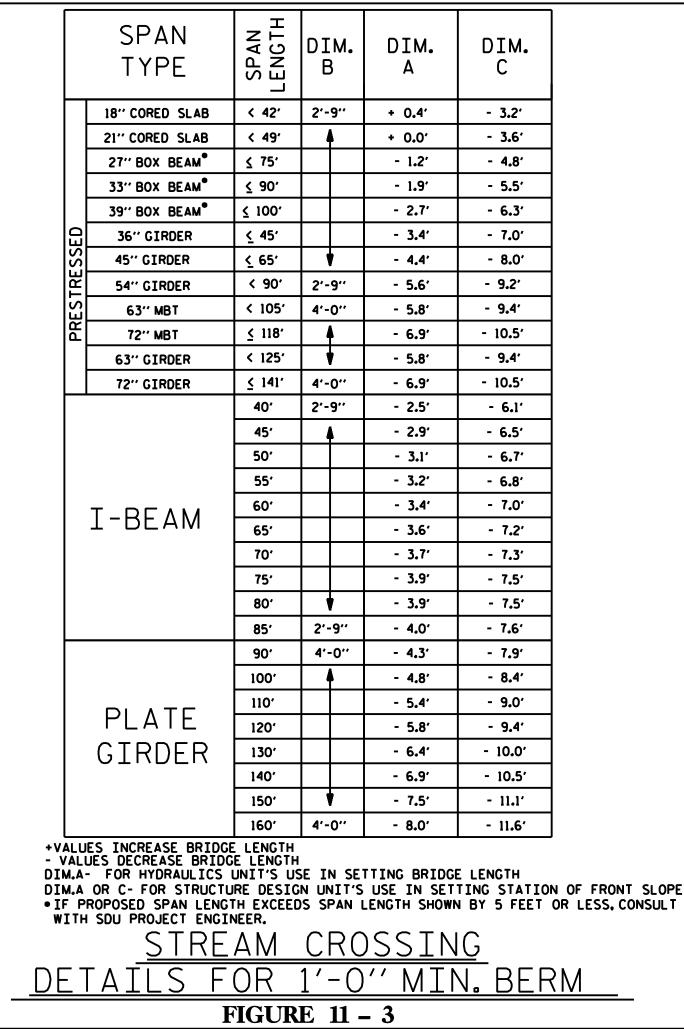
GRP/DAS/snj

Attachments

Fig. 11-3 (English) Fig. 11-3 (Metric)

cc: R. V. Keith, P. E., with attachments
R. A. Raynor, P. E., with attachments
E. C. Powell, Jr., P. E., Attn: R. A. Hancock, P. E., with attachments
J. H. Emerson, P. E., with attachments
T. S. Drda, P. E., FHWA, with attachments
D. R. Henderson, P. E., with attachments
J. A. Bennett, P. E., with attachments

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	SPAN TYPE		SPAN LENGTH	DIM. B		DIM. A	DIM. C	
		457mm CORED SLAB	< 13m	84(	Dww	+ 160mm	- 980mm	
		533mm CORED SLAB	< 15m	4		+ 0.0mm	- 1080mm	
		686mm BOX BEAM®	<u>&lt;</u> 23m			- 370mm	- 1470mm	
		838mm BOX BEAM <sup>•</sup>	<u>&lt;</u> 27m			- 580mm	- 1680mm	
		991mm BOX BEAM®	<u>&lt;</u> 30m			- 820mm	- 1920mm	
	STRESSED	914mm GIRDER	<u>&lt; 1</u> 4m			- 1040mm	- 2120mm	
		1143mm GIRDER	<u>&lt;</u> 20m	1	7	- 1400mm	- 2480mm	
		1372mm GIRDER	< 30m	840mm		- 1730mm	- 2810mm	
		1600mm MBT	< 32m	1220mm		- 1760mm	- 2860mm	
	PRI	1829mm MBT	<u>≤</u> 36m	1220mm		- 2100mm	- 3200mm	
		1600mm GIRDER	< 38m	1220mm		- 1760mm	- 2860mm	
		1829mm GIRDER	<u>≤</u> 43m	1220	)mm	- 2100mm	- 3200mm	
			12 <b>.</b> 2m	840	Cmm	- 790mm	- 1870mm	
	I-BEAM		13.7m			- 930mm	- 2010mm	
		15 <b>.</b> 2m			- 990mm	- 2070mm		
		16 <b>.</b> 8m			- 1020mm	- 2100mm		
		I-BEAM	18 <b>.</b> 3m			- 1060mm	- 2140mm	
			19 <b>.</b> 8m			- 1110mm	- 2190mm	
			21.3m			- 1170mm	- 2250mm	
			22 <b>.</b> 9m			- 1200mm	- 2280mm	
			24.4m		1	- 1200mm	- 2280mm	
			25 <b>.</b> 9m	840mm		- 1240mm	- 2320mm	
			27 <b>.</b> 4m	1220mm		- 1330mm	- 2410mm	
		PLATE	30 <b>.</b> 5m	- (	1	- 1480mm	- 2560mm	
			33.5m			- 1660mm	- 2740mm	
			36 <b>.</b> 6m			- 1800mm	- 2880mm	
		GIRDER	39.6m			- 1980mm	- 3060mm	
		0 11 0 21 1	42.7m			- 2110mm	- 3190mm	
			45.7m			- 2300mm	- 3380mm	
			48.8m	1220mm		- 2440mm	- 3520mm	
- V/ DIM DIM	ALU 1.A-	S INCREASE BRIDGE ES DECREASE BRIDGE FOR HYDRAULICS U OR C- FOR STRUCTU OPOSED SPAN LENGTH	LENGTH NIT'S USE RE DESIG	N UN	NIT'S	USE IN SET	TING STATIO	

<u>STREAM CROSSING</u> DETAILS FOR 300mm MIN.BERM FIGURE 11 - 3

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