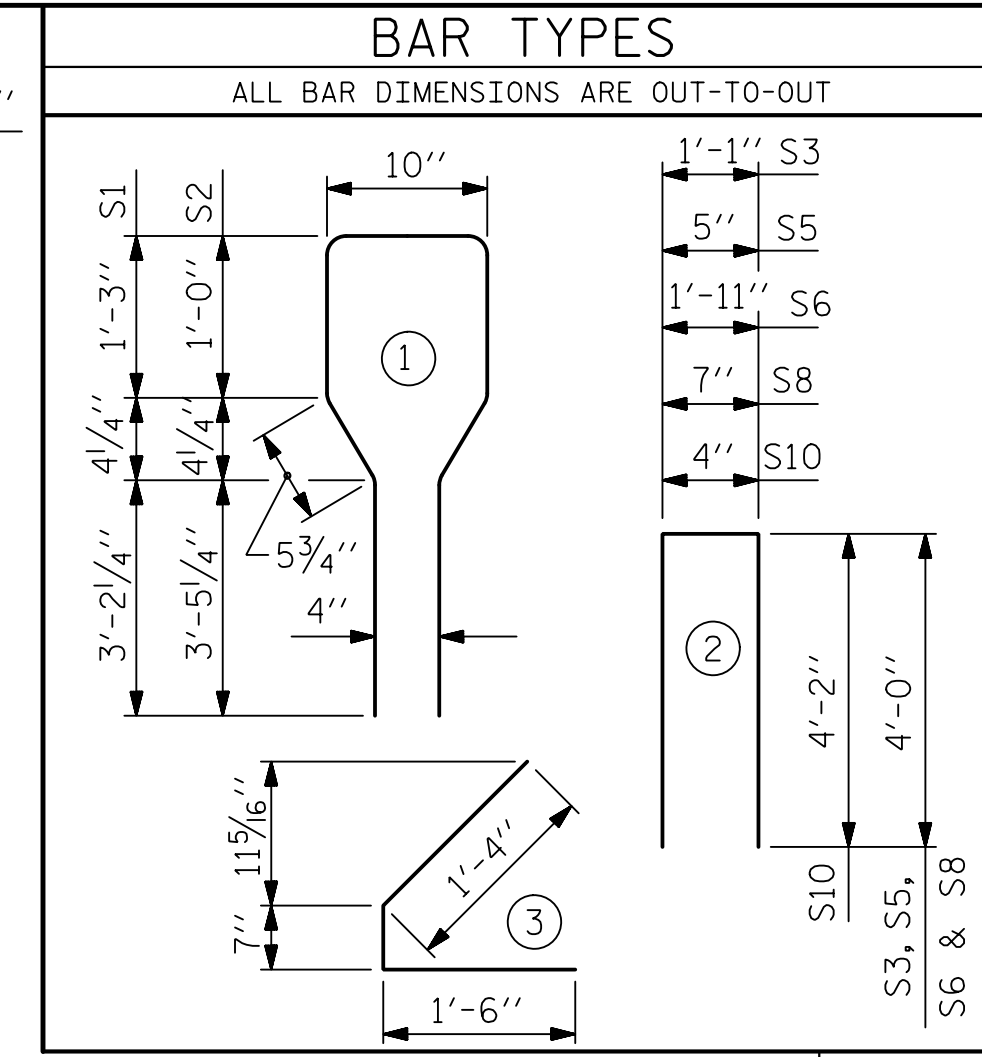
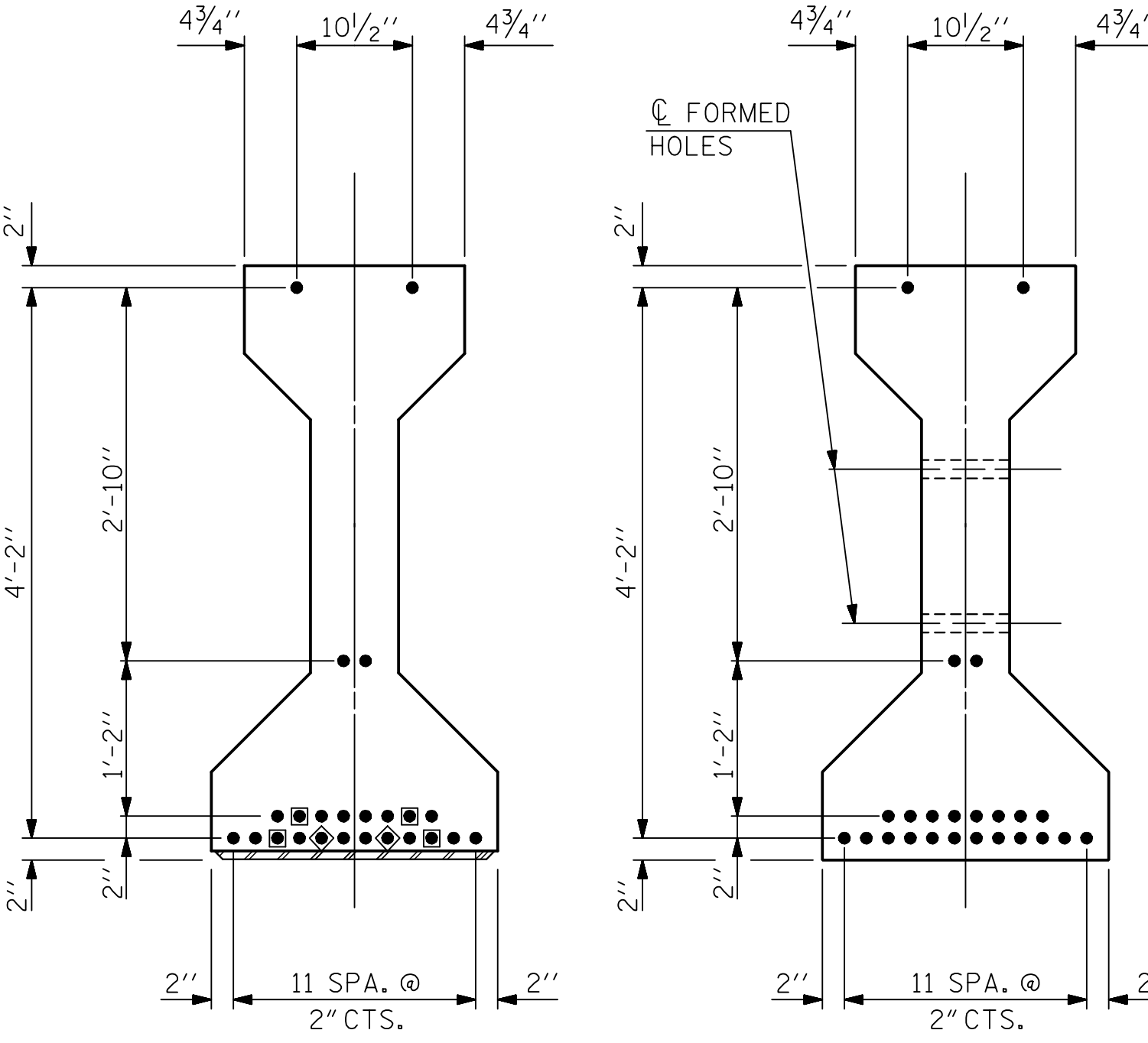


1/2" Ø FORMED HOLE  
(SEE "PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS" SHEET FOR LOCATION)



0.6" Ø L. R. GRADE 270 STRANDS

AREA (SQ. INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
S1	75	#4	1	10'-8"	534	
S2	12	#6	1	10'-8"	192	
S3	4	#4	2	9'-1"	24	
S4	64	#4	3	3'-5"	146	
S5	6	#4	2	8'-5"	34	
*S7	12	#5	STR	3'-8"	46	
S8	4	#4	2	8'-7"	23	
S9	2	#3	STR	1'-10"	1	
GB1, GB4	S10	2	#5	2	8'-8"	18
GB2, GB3	S10	4	#5	2	8'-8"	36
GB1, GB4	S11	5	#4	STR	7'-0"	23
GB2, GB3	S12	5	#4	STR	12'-9"	43

\* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

QUANTITIES FOR ONE GIRDER

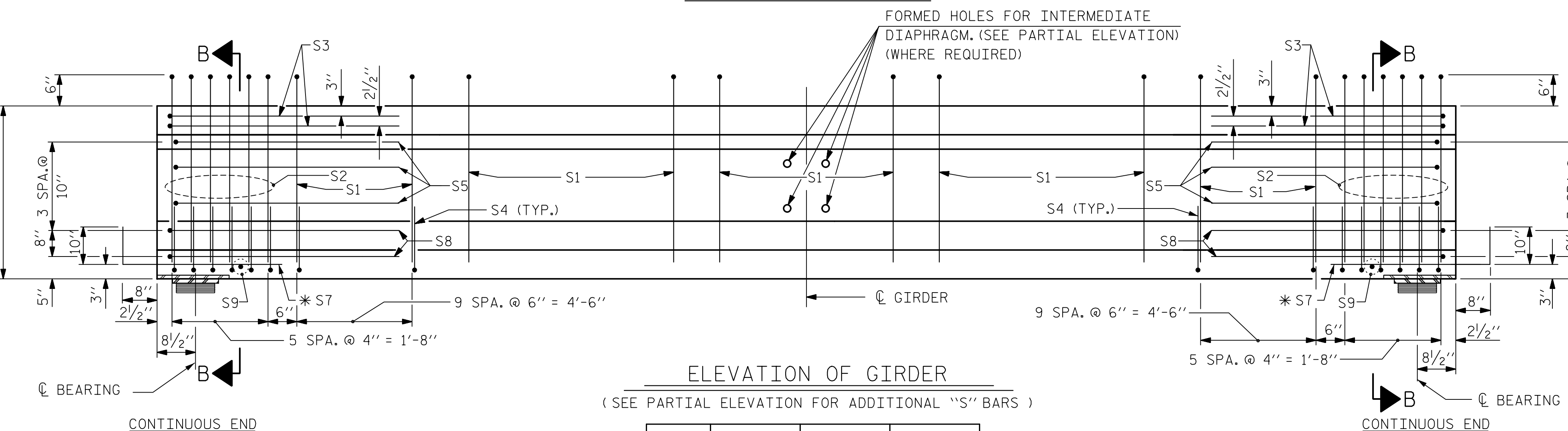
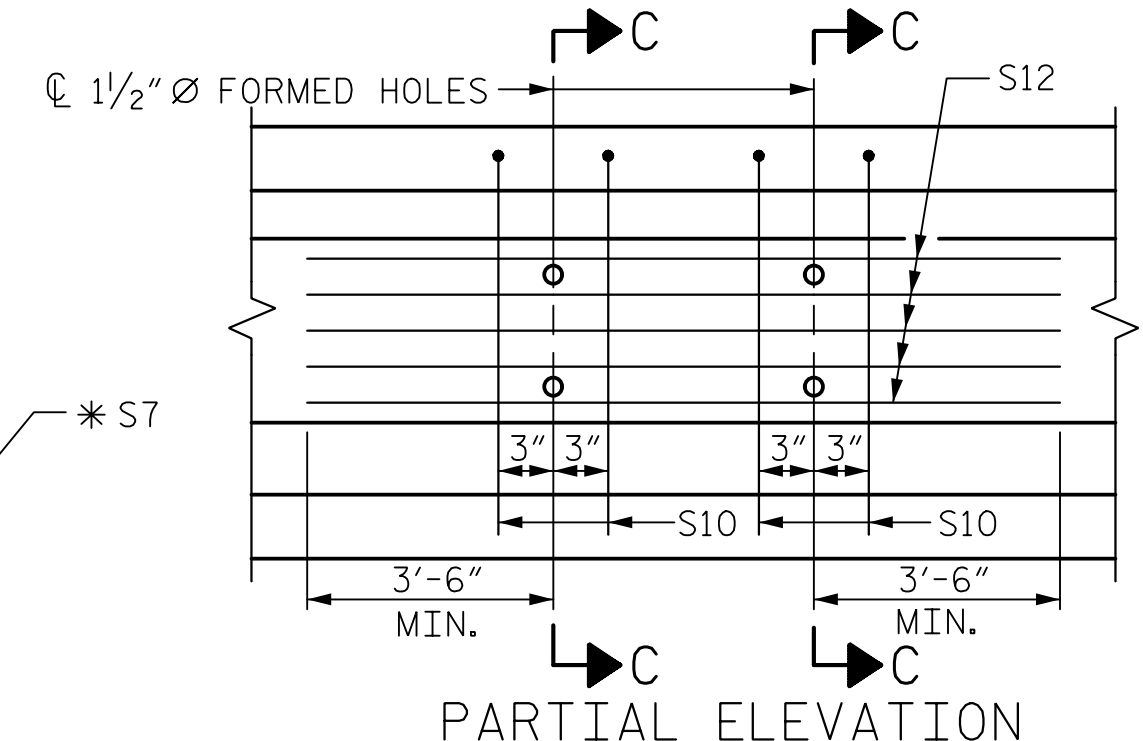
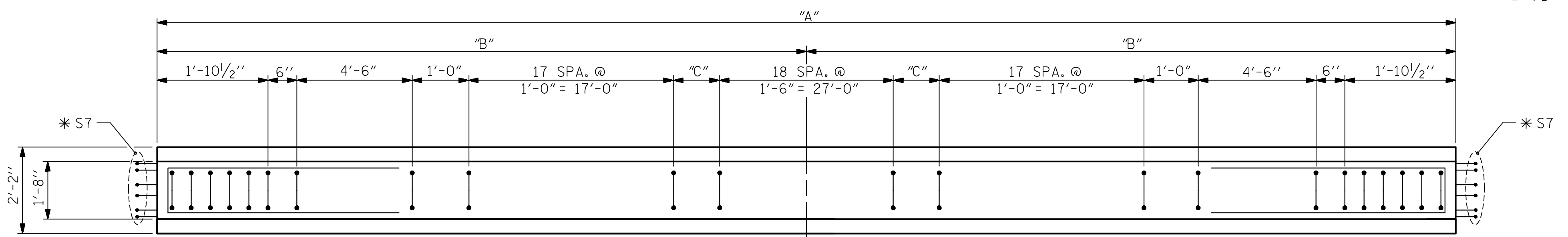
	REINFORCING STEEL LB.	5,500 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
GB1	1,041	16.0	24
GB2	1,079	16.0	24
GB3	1,079	16.1	24
GB4	1,041	16.1	24

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
GB1	78'-9 3/8"	78'-9 3/8"
GB2	78'-11 3/8"	78'-11 3/8"
GB3	79'-1 3/8"	79'-1 3/8"
GB4	79'-3 1/2"	79'-3 1/2"

NOTES:  
THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,200 PSI FOR SPAN B GIRDERS.

GIRDER CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,500 PSI AT THE AGE OF 28 DAYS.



GIRDER	"A"	"B"	"C"
GB1	78'-9 3/8"	39'-4 1/16"	1'-0 3/16"
GB2	78'-11 3/8"	39'-5 1/16"	1'-1 3/16"
GB3	79'-1 3/8"	39'-6 1/16"	1'-2 3/16"
GB4	79'-3 1/2"	39'-7 3/4"	1'-3 1/4"

DocuSigned by:  
David W. Hawkins  
18031857368741E

DocuSigned by:  
Paul J. Barber  
18031857368741E

1/29/2016

**HNTB** HNTB NORTH CAROLINA, P.C.  
NC License No. C-1554  
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

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1/29/2016

PROJECT NO. B-4811  
RUTHERFORD COUNTY  
STATION: POC 15+25.00 -L-  
SHEET 2 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

STANDARD  
AASHTO TYPE IV  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD  
SPAN B

ASSEMBLED BY : J. BAYNE DATE : 3/15  
CHECKED BY : D. RAGAN DATE : 3/15

DRAWN BY : ELR 8/91 REV. 5/1/06R TLA/GM  
CHECKED BY : CRP 8/91 REV. 10/1/11 MAA/GM  
REV. 1/15 MAA/TMG

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

DWG. NO. 13

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS 42