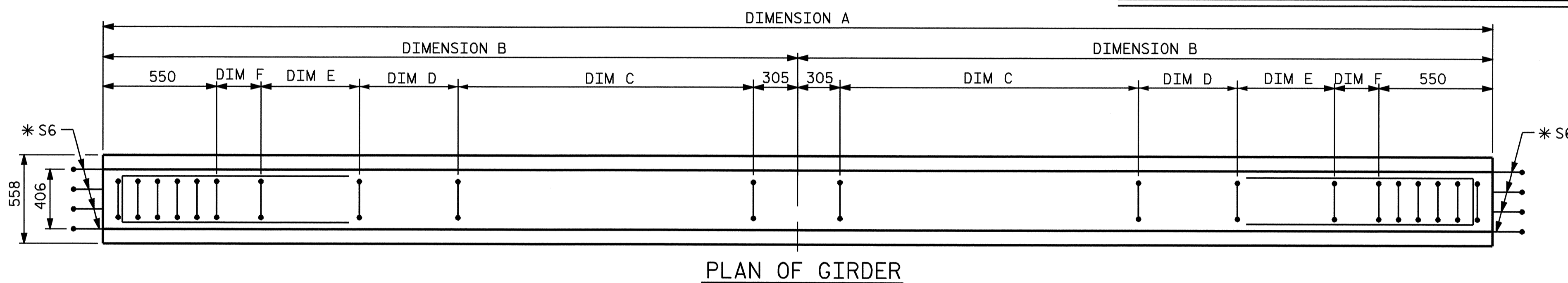
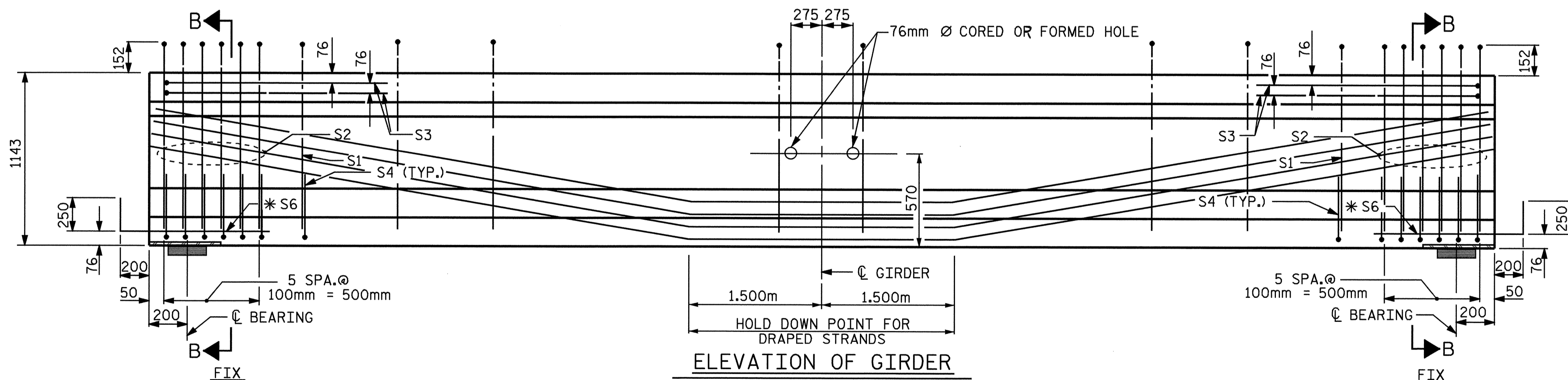


12.70mm Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



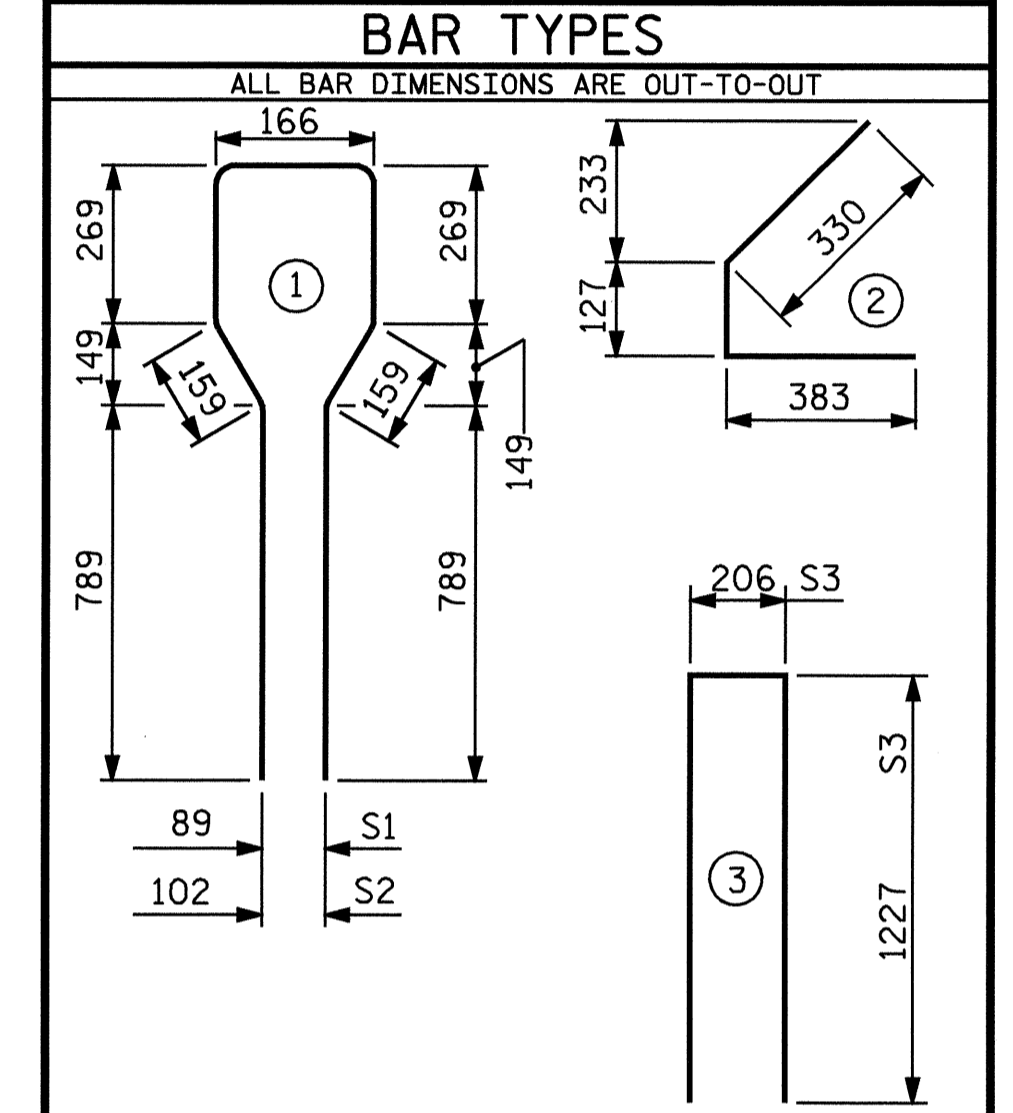
ELEVATION OF GIRDER

	GIRDER DIMENSIONS					
	SPAN B					
	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	DIMENSION F
GIRDER B1	21.200 m	10.600 m	15 SPA.@ 500	9 SPA.@ 200	145	3 SPA.@ 100
GIRDER B2	21.286 m	10.643 m	15 SPA.@ 500	10 SPA.@ 200	88	2 SPA.@ 100
GIRDER B3	21.372 m	10.686 m	15 SPA.@ 500	10 SPA.@ 200	131	2 SPA.@ 100
GIRDER B4	21.460 m	10.730 m	15 SPA.@ 500	10 SPA.@ 200	75	3 SPA.@ 100
GIRDER B5	21.546 m	10.773 m	15 SPA.@ 500	10 SPA.@ 200	118	3 SPA.@ 100
GIRDER B6	21.634 m	10.817 m	15 SPA.@ 500	10 SPA.@ 200	162	3 SPA.@ 100

12.70mm Ø L. R. GRADE 270 STRANDS		
AREA (mm ²)	ULTIMATE STRENGTH (kN PER STRAND)	APPLIED PRESTRESS (kN PER STRAND)
98.71	183.7	137.8

REINFORCING STEEL FOR ONE GDR.						
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
GDR. B1	S1	54	#13	1	2600	140
GDR. B2	S1	54	#13	1	2600	140
GDR. B3	S1	54	#13	1	2600	140
GDR. B4	S1	56	#13	1	2600	145
GDR. B5	S1	56	#13	1	2600	145
GDR. B6	S1	56	#13	1	2600	145
	S2	12	#19	1	2600	70
	S3	4	#13	3	2660	11
	S4	60	#13	2	840	50
	*S6	8	#16	STR	1120	14

* NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

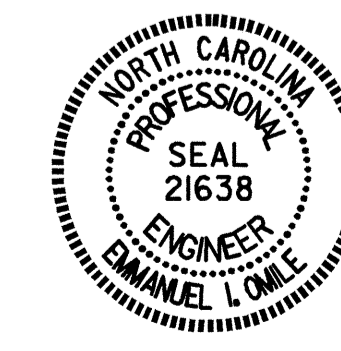


QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	41.4 MPa CONCRETE	12.70mm Ø L.R. STRANDS
	kg	m ³	No.
GIRDER B1	285	7.653	30
GIRDER B2	285	7.684	30
GIRDER B3	285	7.715	30
GIRDER B4	290	7.747	30
GIRDER B5	290	7.778	30
GIRDER B6	290	7.810	30

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
6	VARIES	128.498

PROJECT NO. R-2562C
BLADEN COUNTY
 STATION: 178+79.500 -L- REV

SHEET 2 OF 4



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 AASHTO TYPE III
 PRESTRESSED CONCRETE
 GIRDER CONTINUOUS
 FOR LIVE LOAD
 (SPAN B) (RIGHT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-45
1			3			TOTAL SHEETS 68
2			4			

ASSEMBLED BY :	J. G. KHARVA	DATE :	06-08-04
CHECKED BY :	E. L. OMLE	DATE :	08-24-04
DRAWN BY :	ELR 8/91	REV. 5/16/97	EEM/RGW
CHECKED BY :	GRP 8/91	REV. 7/17/98	RWW/LES
		REV. 10/17/00	RWW/LES