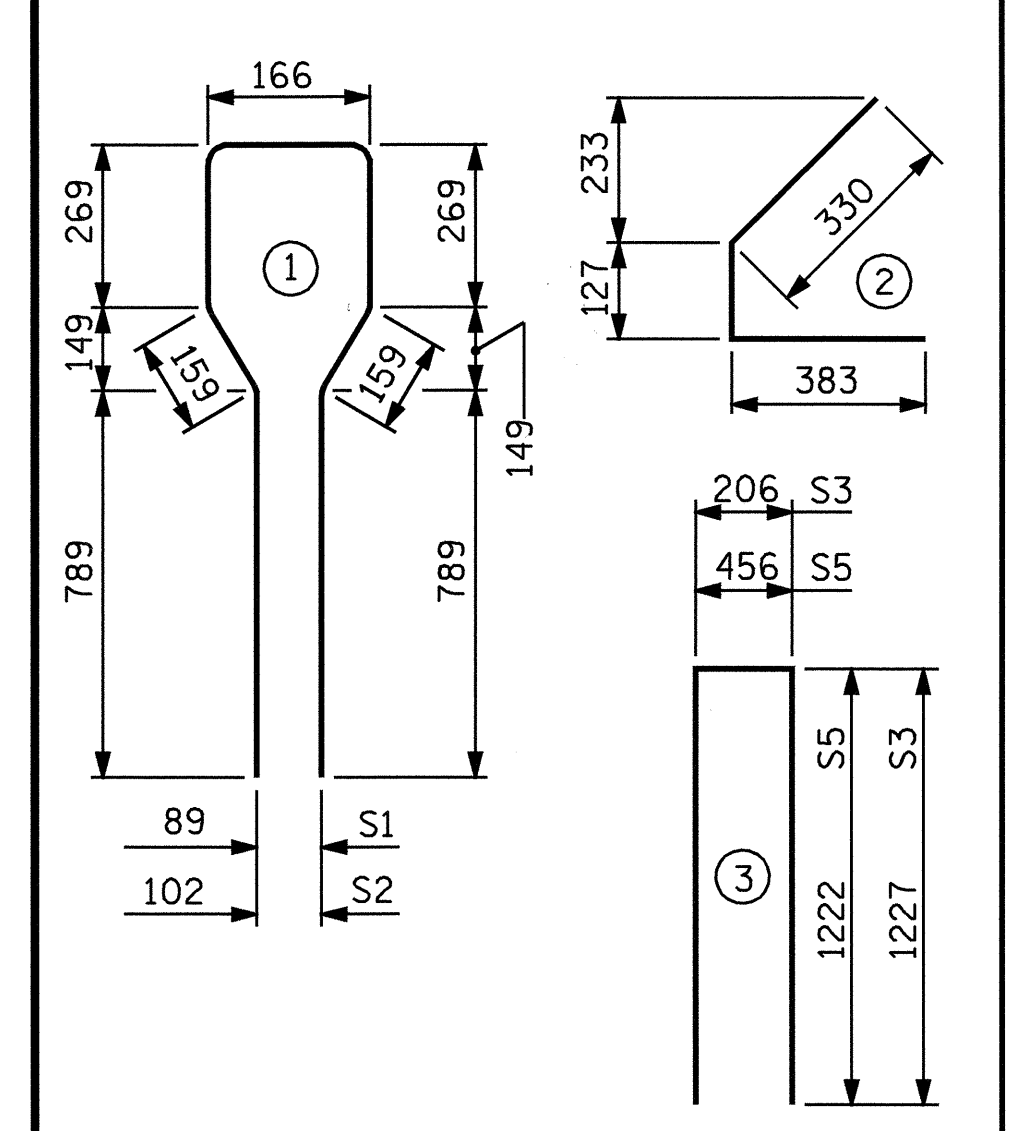


12.70mm Ø L. R. GRADE 270 STRANDS		
AREA (mm <sup>2</sup> )	ULTIMATE STRENGTH (kN PER STRAND)	APPLIED PRESTRESS (kN PER STRAND)
98.71	183.7	137.8

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	46	#13	1	2600	119
S2	12	#19	1	2600	70
S3	4	#13	3	2660	11
S4	60	#13	2	840	50
S5	1	#13	3	2900	3
*S6	4	#16	STR	1120	7

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

**BAR TYPES**  
ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	34.5 MPa CONCRETE	12.70mm Ø L.R. STRANDS	
kg	m <sup>3</sup>	No.	
260	6.7	24	

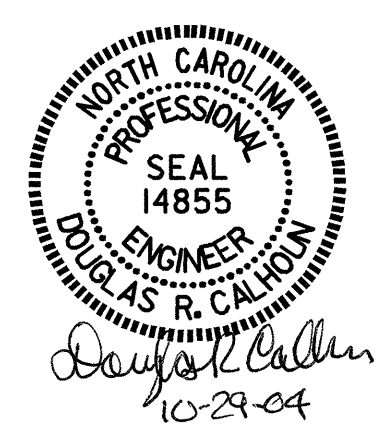
GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
6	18.522m	111.132m

PROJECT NO. B-2583  
MADISON COUNTY  
 STATION: 11+03.000 -Y1-

SHEET 1 OF 4

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

STANDARD  
 AASHTO TYPE III  
 PRESTRESSED CONCRETE GIRDER  
 CONTINUOUS FOR LIVE LOAD  
 SPAN A



REVISIONS						SHEET NO. S-81
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 112
2			4			

ASSEMBLED BY : T.A. HARRIS	DATE : 11/20/02
CHECKED BY : W. S. ARAFAT	DATE : 5/16/04
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