

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
  - ▲ STRANDS DEBONDED FOR 0.610m FROM END OF GIRDER
  - STRANDS DEBONDED FOR 1.22m FROM END OF GIRDER

**15.24mm Ø L. R. GRADE 1860 STRANDS**

AREA (mm <sup>2</sup> )	ULTIMATE STRENGTH (kN PER STRAND)	APPLIED PRESTRESS (kN PER STRAND)
140.0	260.4	195.3

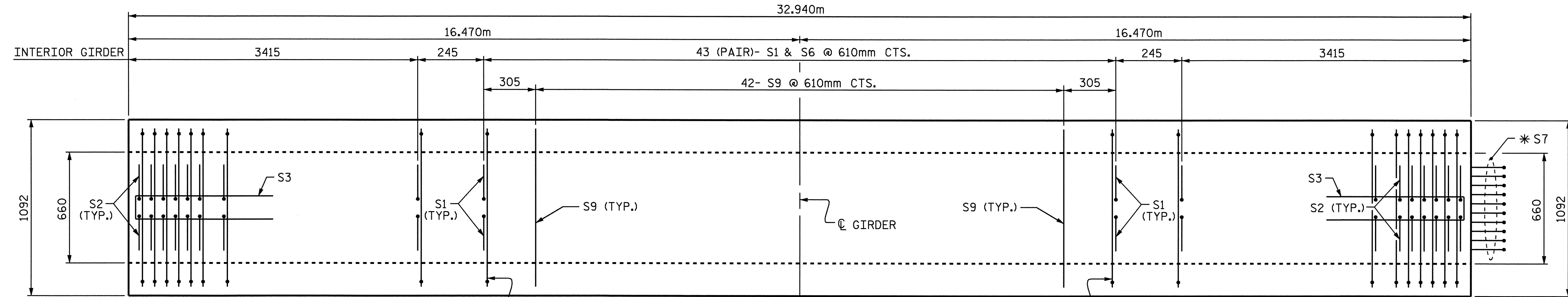
**REINFORCING STEEL FOR ONE GIRDER**

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	162	#13	1	1860	300
S2	24	#16	1	1860	69
S3	12	#13	2	2560	31
S4	100	#13	3	920	91
S5	1	#16	2	3000	5
S6	186	#16	1	1140	329
*S7	10	#16	STR	1120	17
S8	2	#16	2	2740	9
S9	42	#16	STR	980	64
S10	1	#10	STR	560	1

\* NOTE: S7 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 (kg)	51.71 MPa CONCRETE (m <sup>3</sup> )	15.24mm Ø L.R. STRANDS (No.)
SPAN A	916	16.4	34

**GIRDERS REQUIRED**

NUMBER	LENGTH	TOTAL LENGTH
4	32.940m	131.760m

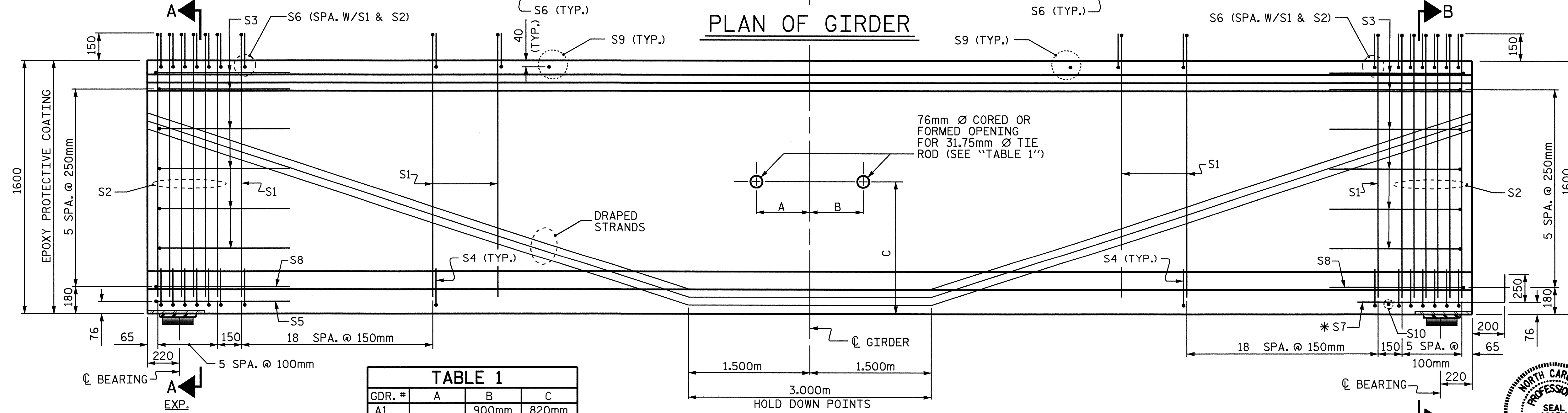
**PROJECT NO. R-2206C**  
**LINCOLN-CATAWBA COUNTY**  
**STATION: 216+60.508-L-**

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**STANDARD**  
 1600mm PRESTRESSED CONCRETE  
 MODIFIED BULB TEE  
 CONTINUOUS FOR LIVE LOAD  
 (WITH 15.24mm Ø PARTIALLY DEBONDED STRANDS)  
**SPAN "A"**

REVISIONS

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

SHEET NO. S-111  
 TOTAL SHEETS 374



**TABLE 1**

GDR. #	A	B	C
A1		900mm	820mm
A2		300mm	770mm
A3	300mm		770mm
A4	900mm		820mm

**ELEVATION OF GIRDER**

ASSEMBLED BY: M.D.PISO DATE: 8/03  
 CHECKED BY: M.M.PARSONS DATE: 8/03  
 DRAWN BY: RWW 9/19/02 ADDED 9/19/02  
 CHECKED BY: GM 9/19/02

