

- DEBONDING LEGEND
- FULLY BONDED STRANDS
  - STRANDS DEBONDED FOR 1.220m FROM END OF GIRDER
  - STRANDS DEBONDED FOR 3.050m FROM END OF GIRDER
  - STRANDS DEBONDED FOR 9.150m FROM END OF GIRDER

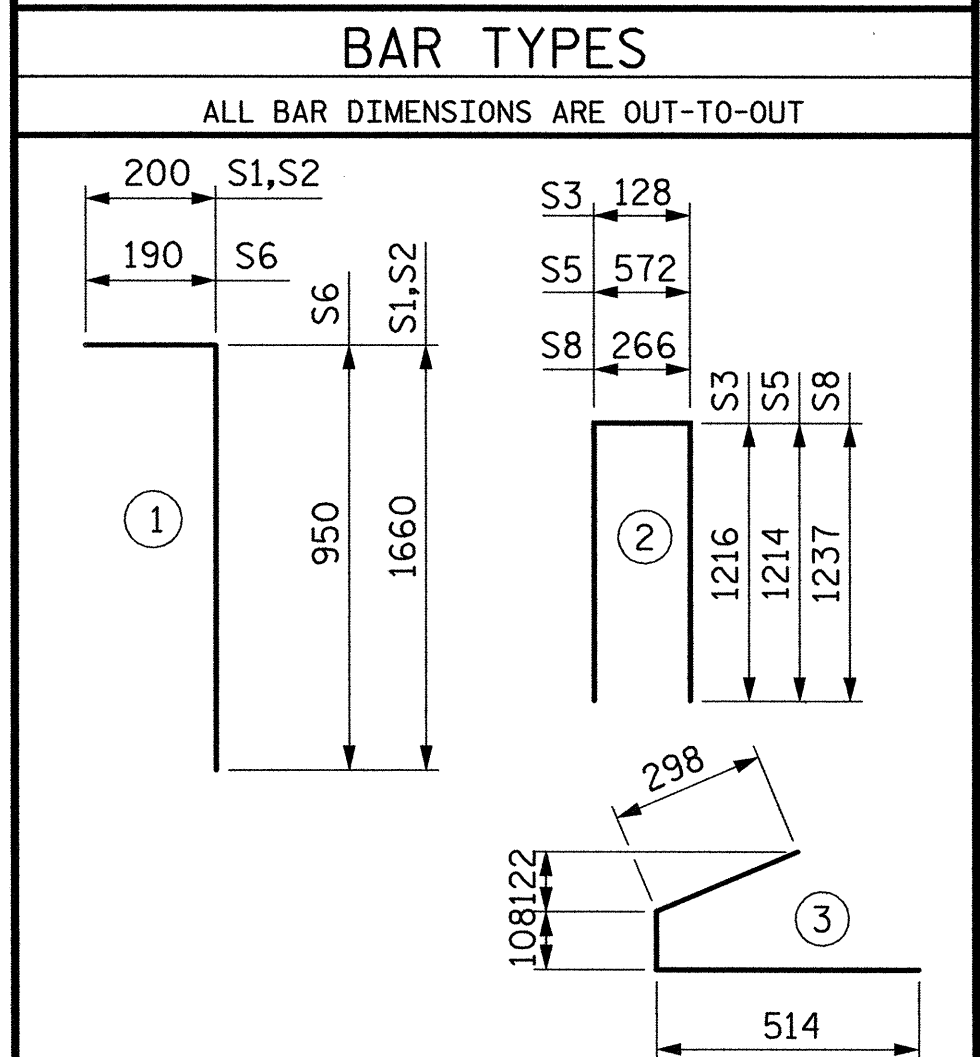
15.24mm Ø L. R. GRADE 270 STRANDS

AREA (mm <sup>2</sup> )	ULTIMATE STRENGTH (KN PER STRAND)	APPLIED PRESTRESS (KN PER STRAND)
140.00	260.4	195.3

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	228	#13	1	1860	422
S2	24	#16	1	1860	69
S3	12	#13	2	2560	31
S4	84	#13	3	920	77
S5	1	#16	2	3000	5
S6	252	#16	1	1140	446
*S7	20	#16	STR	1120	35
S8	2	#16	2	2740	9
S9	2	#10	STR	560	1

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

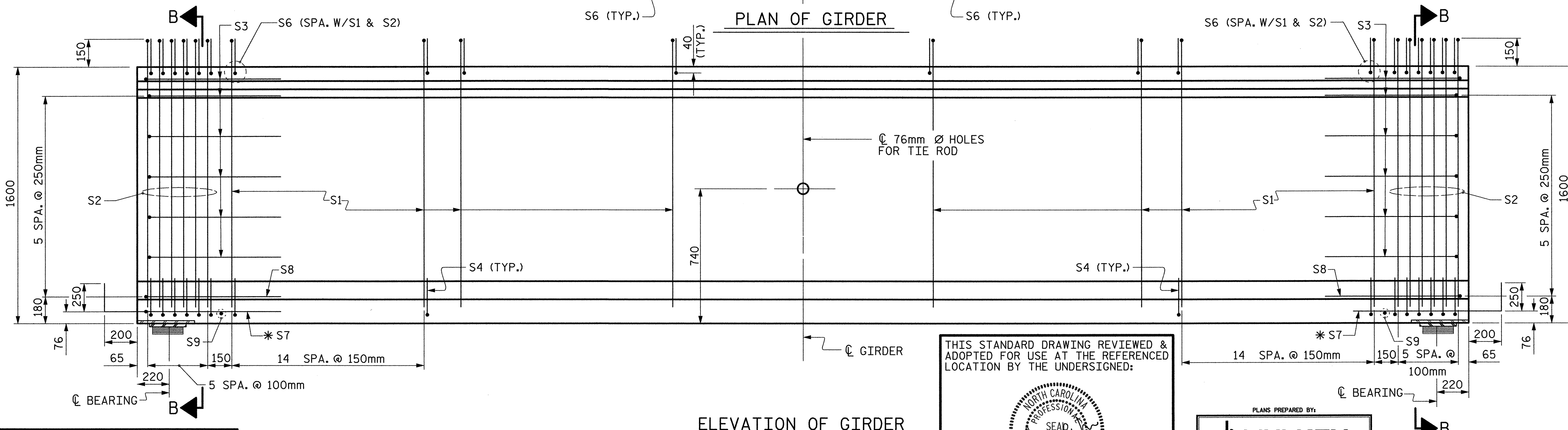
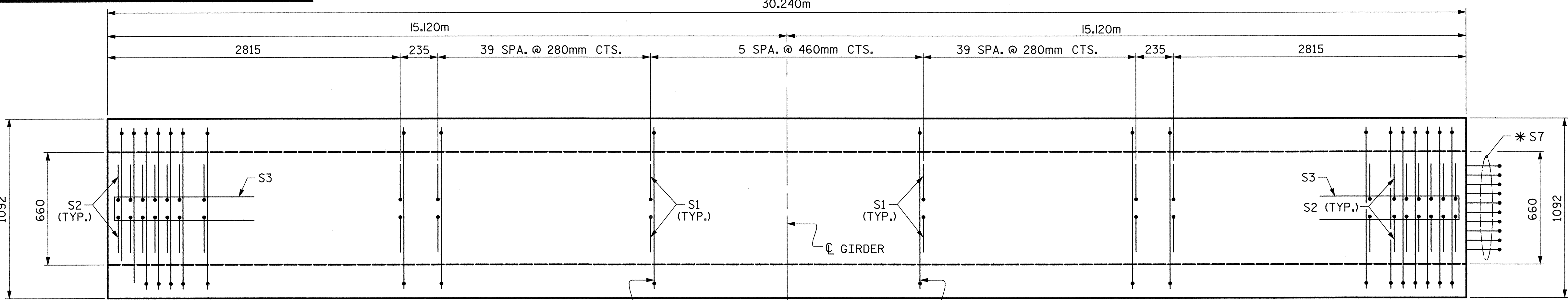


QUANTITIES FOR ONE GIRDER

SPAN	REINFORCING STEEL	50.0 MPa CONCRETE	12.70mm Ø L.R. STRANDS
	kg	m <sup>3</sup>	No.
B&E	1095	15.0	34

GIRDERS REQUIRED

SPAN	NUMBER	LENGTH	TOTAL LENGTH
B&E	8	30.240m	241.920m



THIS STANDARD DRAWING REVIEWED & ADOPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED:

PLANS PREPARED BY:

ASSEMBLED BY: J. P. SHERMAN DATE: 6/04  
 CHECKED BY: R. C. LARSON DATE: 8/04  
 DRAWN BY: EEM 2/6/97 REV. 7/17/98 RWW/LES  
 CHECKED BY: VAP 2/6/97 REV. 8/16/99 RWW/LES  
 REV. 10/17/00 RWW/LES

PROJECT NO. R-2552AA  
 WAKE - JOHNSTON COUNTY  
 STATION: 14+38.000 -LREV- POT  
 SHEET 4 OF 5

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 OPTIONAL  
 1600mm PRESTRESSED CONCRETE  
 MODIFIED BULB TEE  
 CONTINUOUS FOR LIVE LOAD  
 (WITH 15.24mm Ø PARTIALLY  
 DEBONDED STRANDS)  
 SPANS B&E (LEFT LANE)

REVISIONS

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

SHEET NO. S-155  
 TOTAL SHEETS 429

REFERENCE NO. BL-16