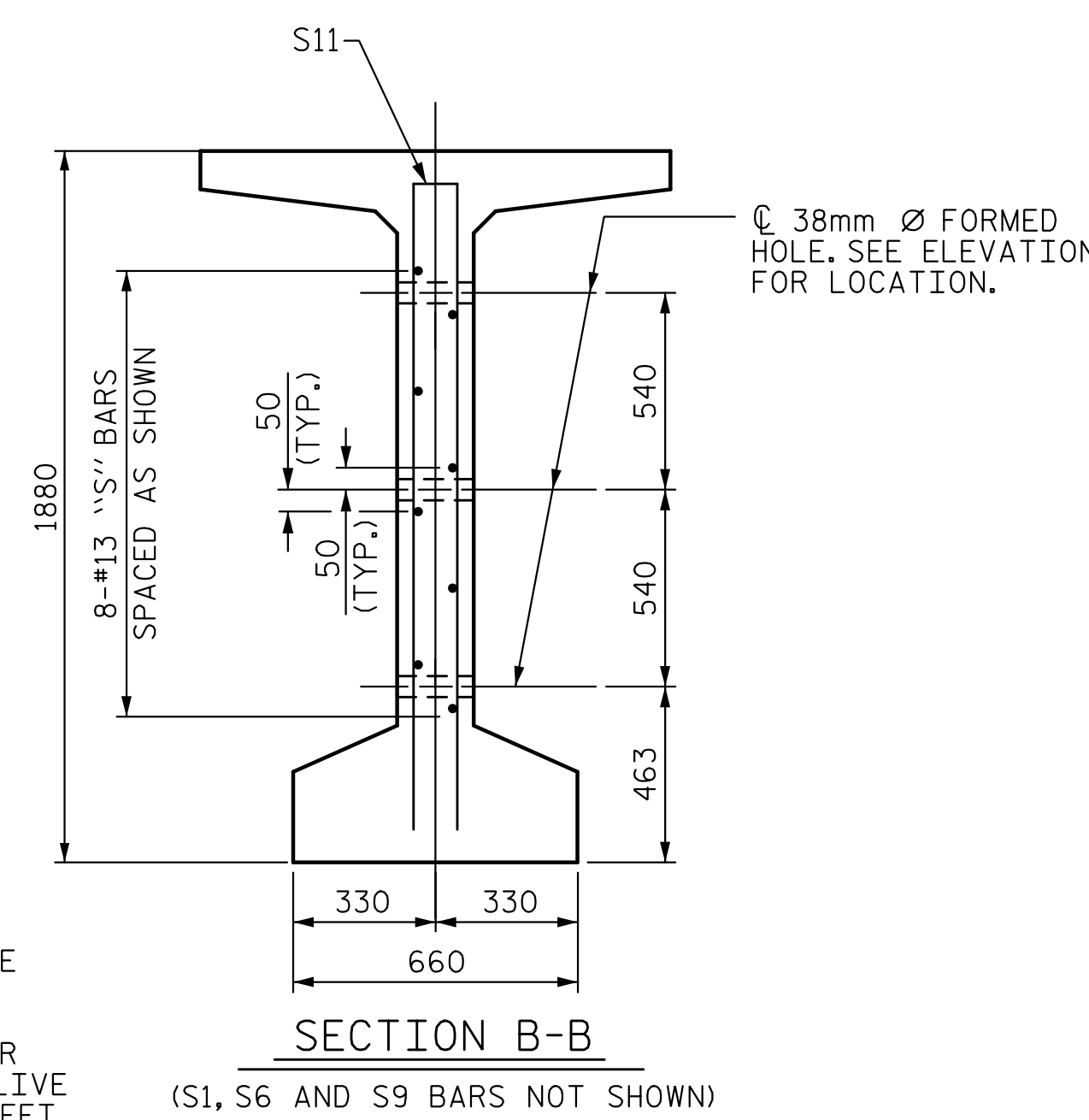
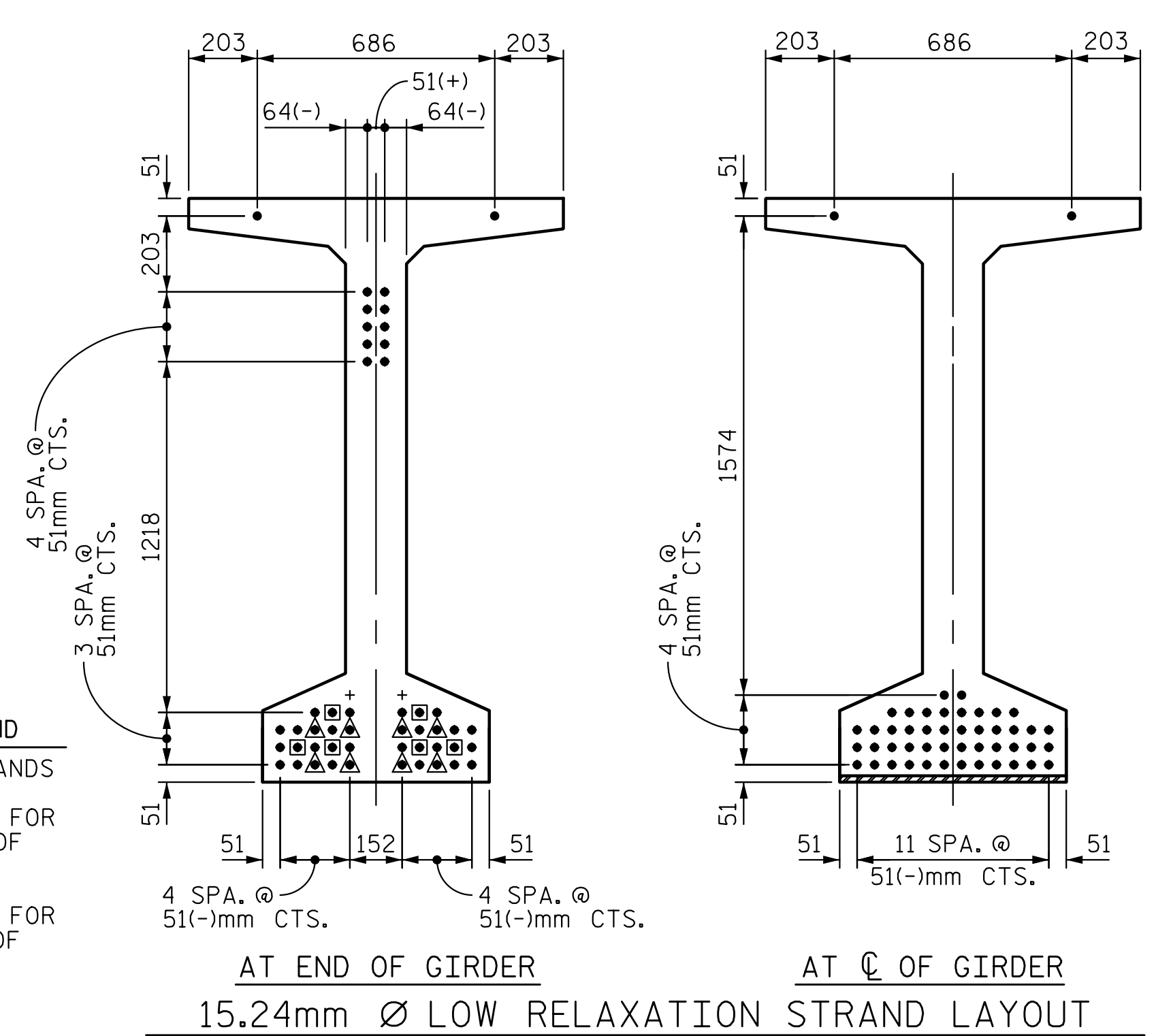


\* FOR S7 BARS, SEE  
DETAIL "C" OF  
PRESTRESSED  
CONCRETE GIRDER  
CONTINUOUS FOR LIVE  
LOAD DETAILS SHEET



38mm Ø FORMED  
HOLE. SEE ELEVATION  
FOR LOCATION.

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
  - STRANDS DEBONDED FOR 0.610m FROM END OF GIRDER
  - STRANDS DEBONDED FOR 1.220m FROM END OF GIRDER

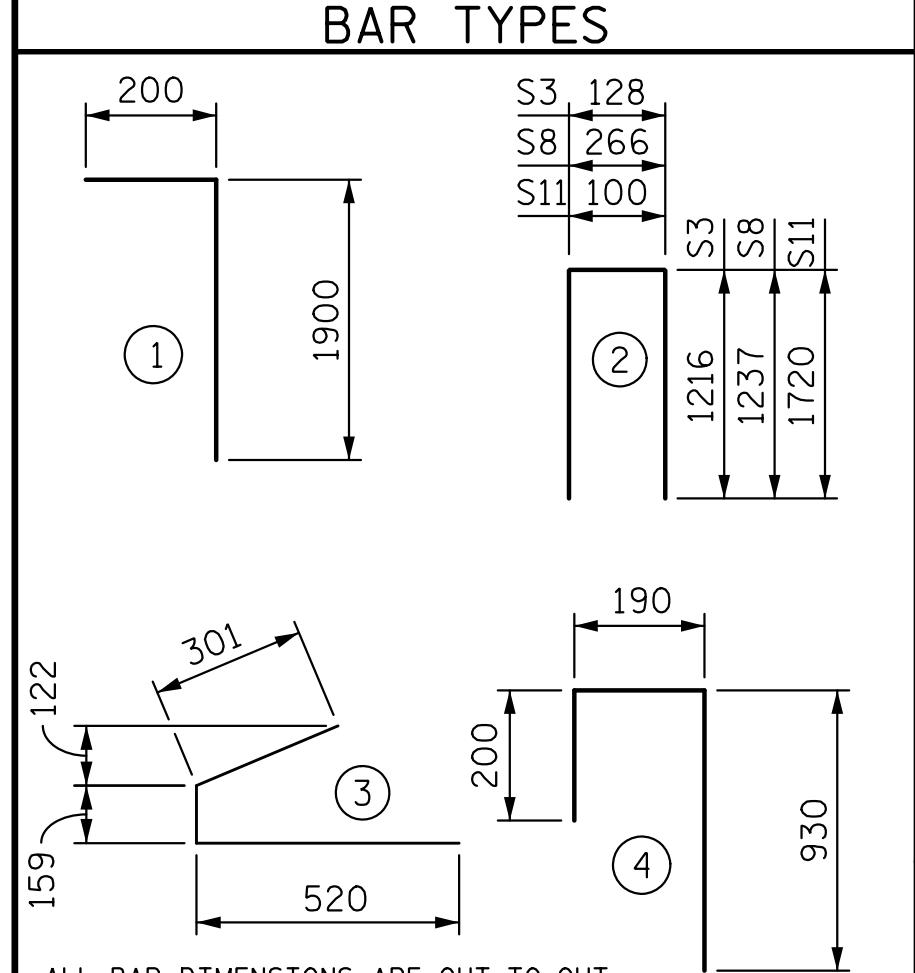


AT END OF GIRDER AT C OF GIRDER  
15.24mm Ø LOW RELAXATION STRAND LAYOUT

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	260.7	195.5

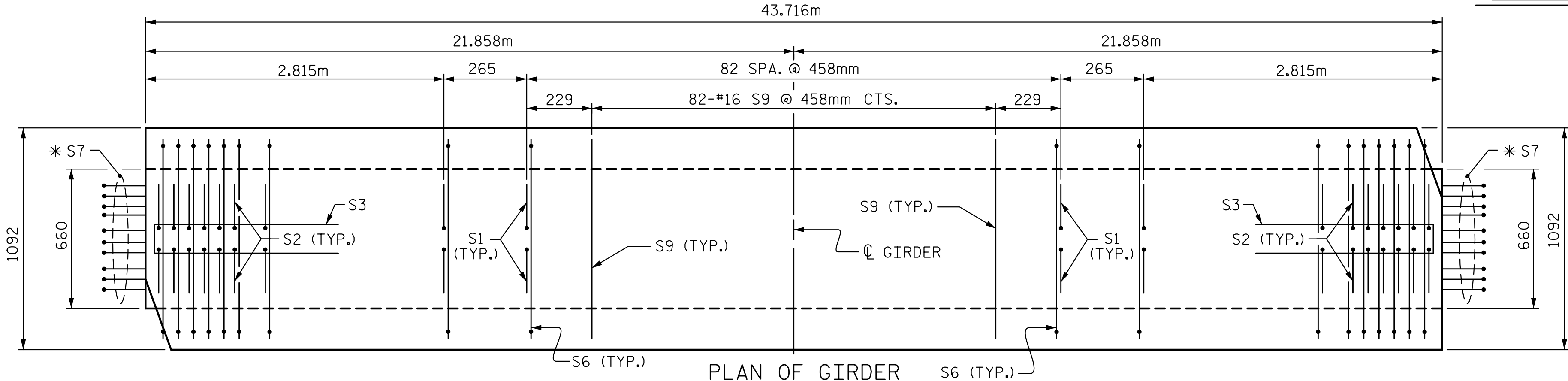
REINFORCING STEEL FOR ONE GDR					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	226	#13	1	2100	472
S2	24	#19	1	2100	113
S3	14	#13	2	2560	36
S4	84	#13	3	980	82
S5	2	#10	STR	920	1
S6	250	#16	4	1320	512
*S7	40	#16	STR	1120	70
S8	2	#16	2	2740	9
S9	82	#16	STR	980	125
S10	2	#10	STR	560	1
S11	8	#16	2	3540	44
S12	16	#13	STR	2440	39

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

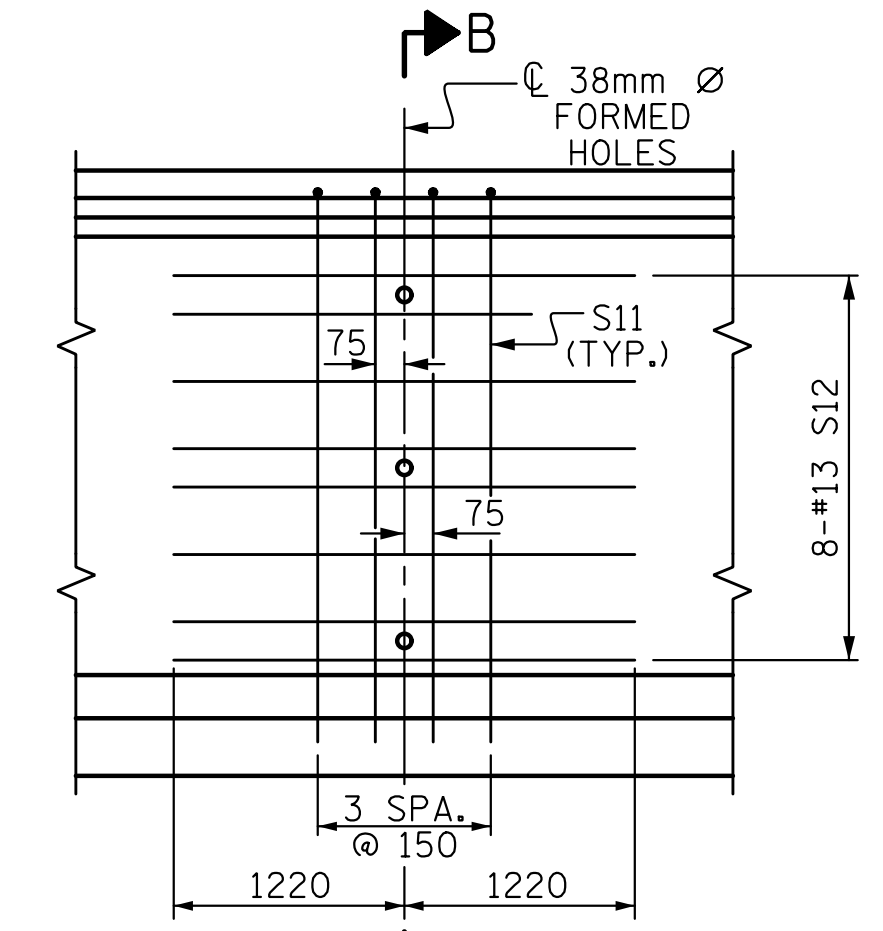


ALL BAR DIMENSIONS ARE OUT-TO-OUT

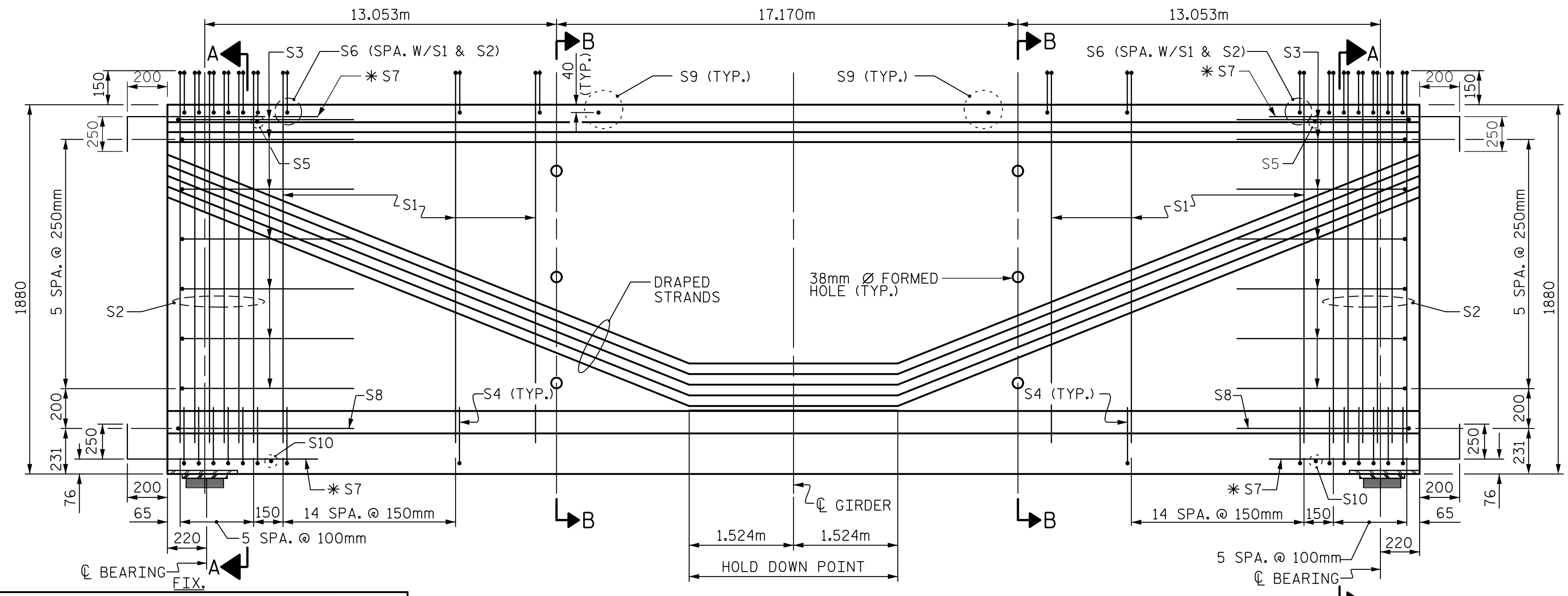
QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	58.6 MPa CONCRETE	15.24mm Ø L.R. STRANDS
	kg	m <sup>3</sup>	No.
SPAN A	1504	25.0	48
GIRDERS REQUIRED			
NUMBER	LENGTH	TOTAL LENGTH	
5	43.716m	218.580m	



PLAN OF GIRDER



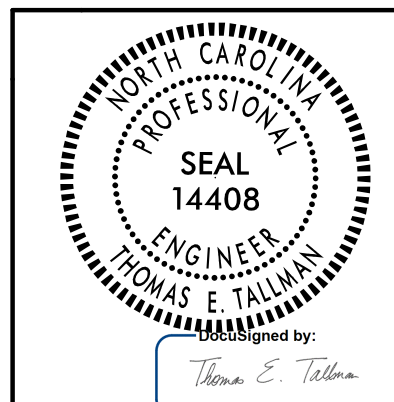
PARTIAL ELEVATION  
SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL



ELEVATION OF GIRDER

4/30/2015 4:41:04 PM Server: Files\PROJ\ECTS\NR2413CA\Structures\Plans\S13\_R2413C\_sd\_cg\_01.dgn TCA Engineering Inc

DRAWN BY: D. H. CARTER DATE: APR 2015  
 CHECKED BY: T. E. TALLMAN DATE: APR 2015  
 DESIGN ENGINEER OF RECORD: T. E. TALLMAN DATE: APR 2015



PROJECT NO. R-2413CA  
 ROCKINGHAM COUNTY  
 STATION: 90+64.493 -LREV-SB-  
 SHEET 1 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SPAN A  
 1880mm PRESTRESSED CONCRETE  
 MODIFIED BULB TEE  
 CONTINUOUS FOR LIVE LOAD

REVISIONS						SHEET NO. S01-13
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 28
2			4			