

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

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

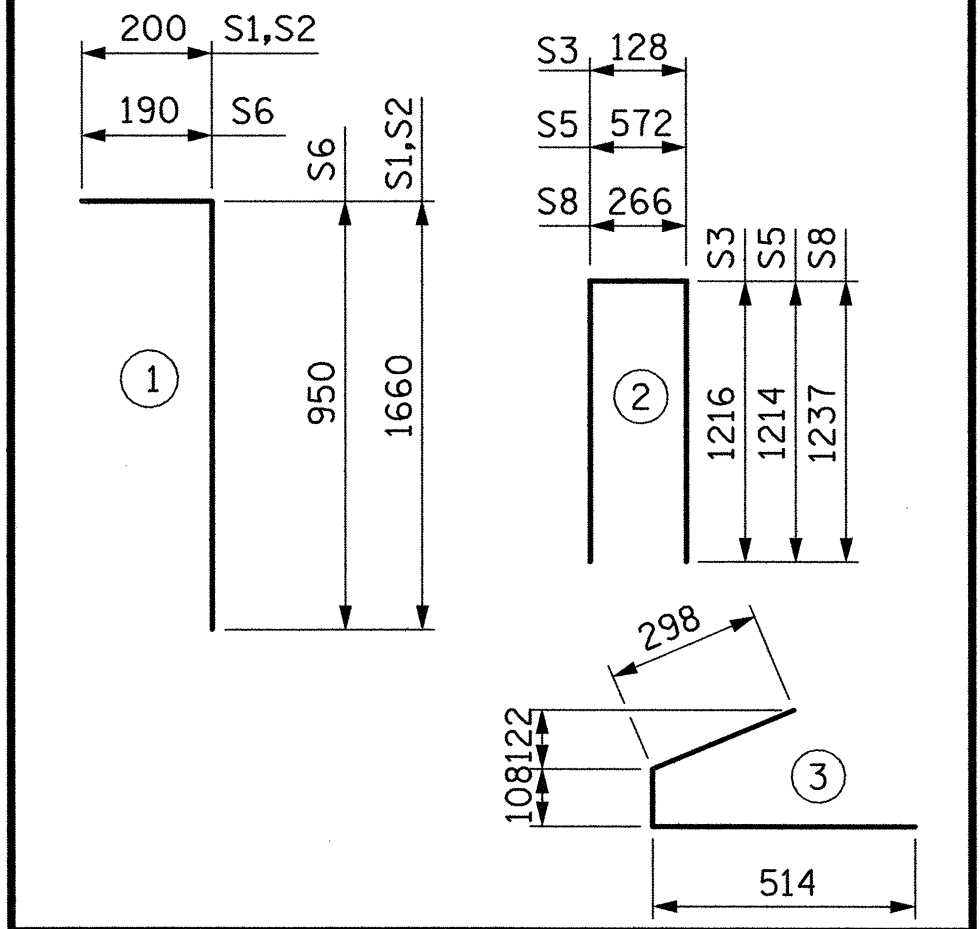
AT END OF GIRDER
AT C OF GIRDER
12.70mm Ø LOW RELAXATION STRAND LAYOUT

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 GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	232	#13	1	1860	429
S2	24	#16	1	1860	69
S3	12	#13	2	2560	31
S4	72	#13	3	920	66
S5	1	#16	2	3000	5
S6	256	#16	1	1140	453
*S7	20	#16	STR	1120	35
S8	2	#16	2	2740	9
S9	2	#10	STR	560	1

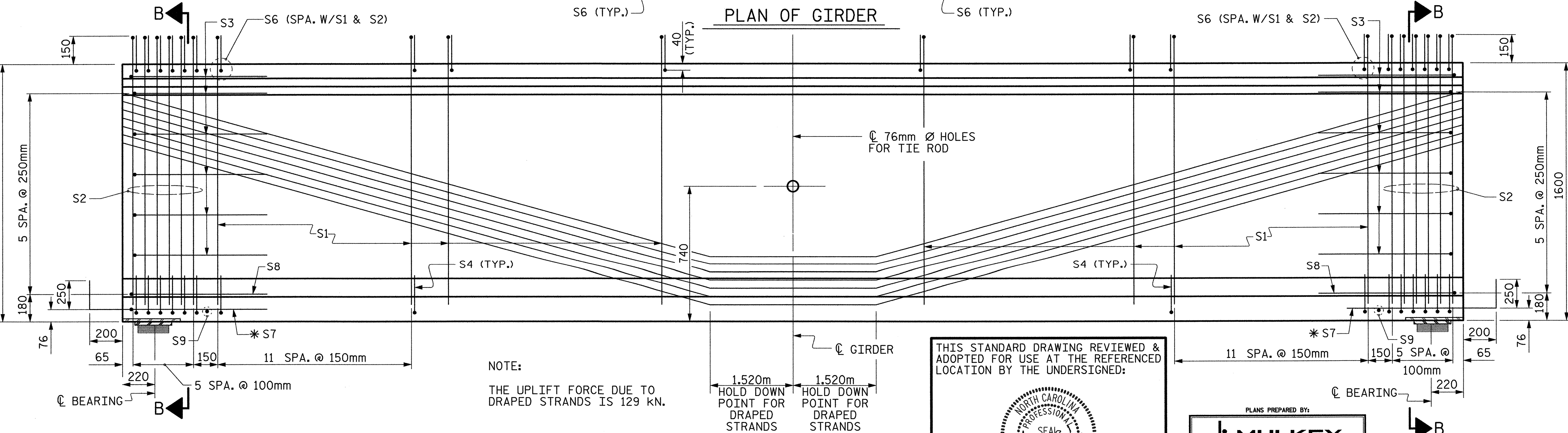
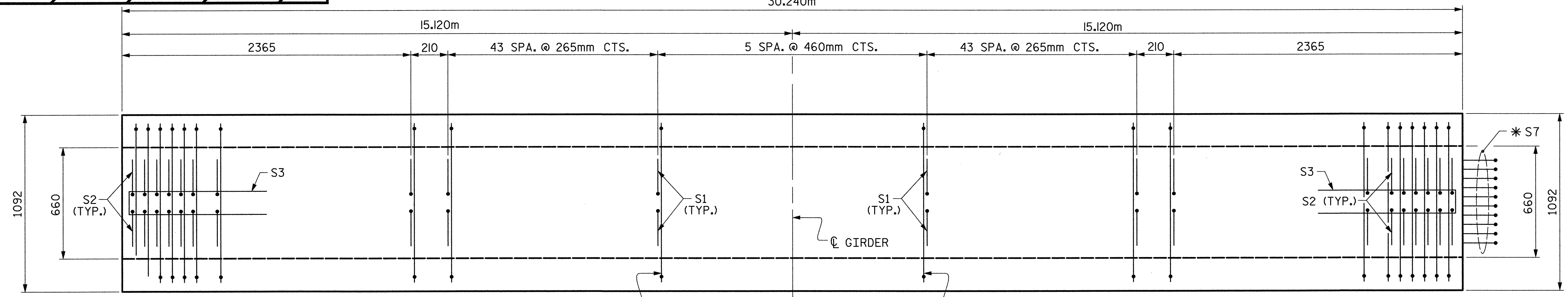
* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES
ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER			
SPAN	REINFORCING STEEL (kg)	50.0 MPa CONCRETE (m ³)	12.70mm Ø L.R. STRANDS (No.)
B&E	1098	15.0	50

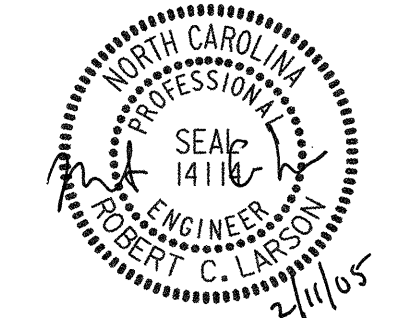
GIRDERS REQUIRED			
SPAN	NUMBER	LENGTH	TOTAL LENGTH
B&E	8	30.240m	241.920m



NOTE:
THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 129 kN.

1.520m HOLD DOWN POINT FOR DRAPED STRANDS

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



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 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
1600mm PRESTRESSED CONCRETE
MODIFIED BULB TEE
CONTINUOUS FOR LIVE LOAD
SPANS B&E (LEFT LANE)
STD. NO. PCG9SM

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	
				TOTAL SHEETS 429

REFERENCE NO. BL-15