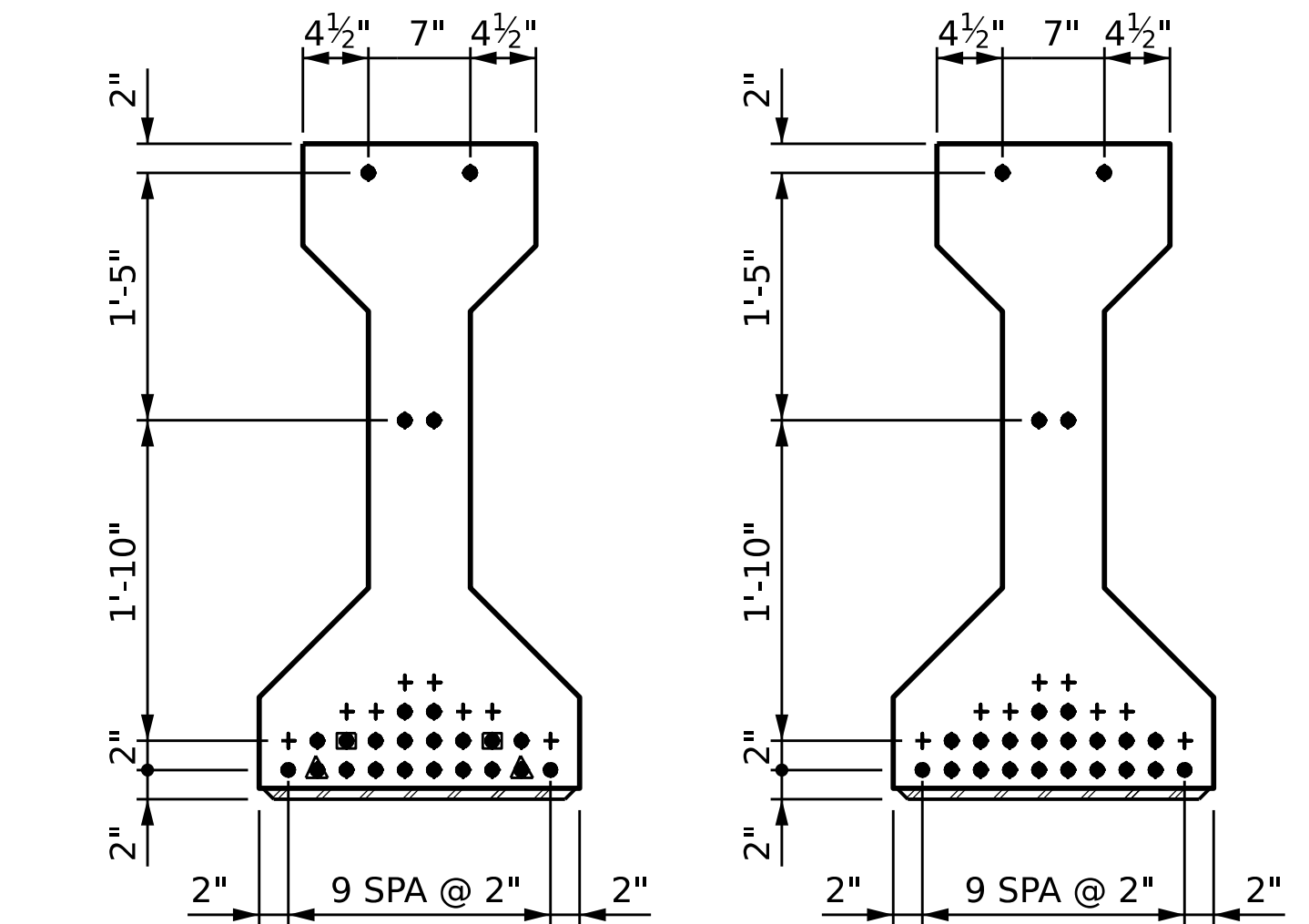


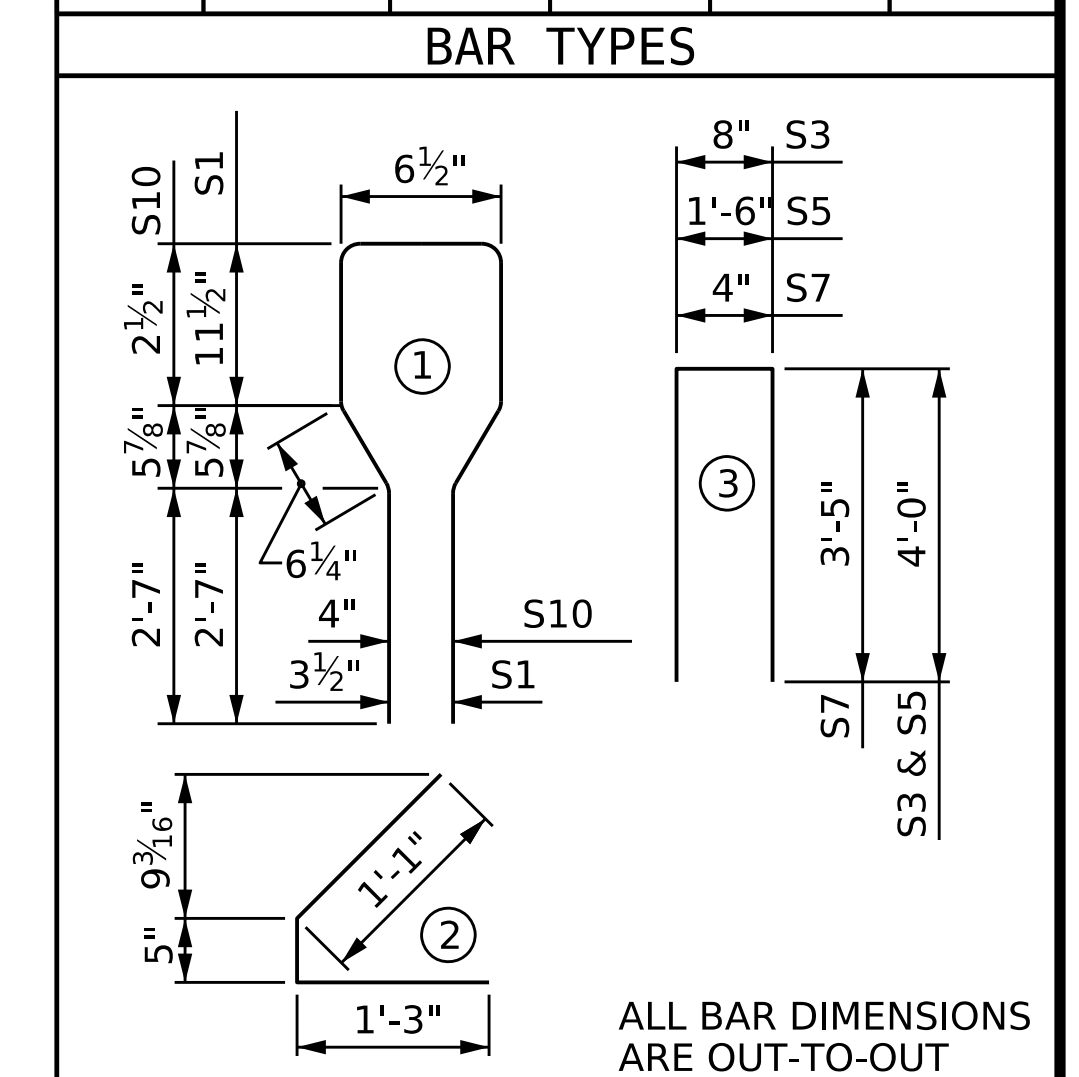
- DEBONDING LEGEND**
- FULLY BONDED STRANDS
  - STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
  - STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER



**0.6" Ø LOW RELAXATION STRAND LAYOUT**

0.6" Ø L.R. GRADE 270 STRANDS		
AREA (SQ. INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

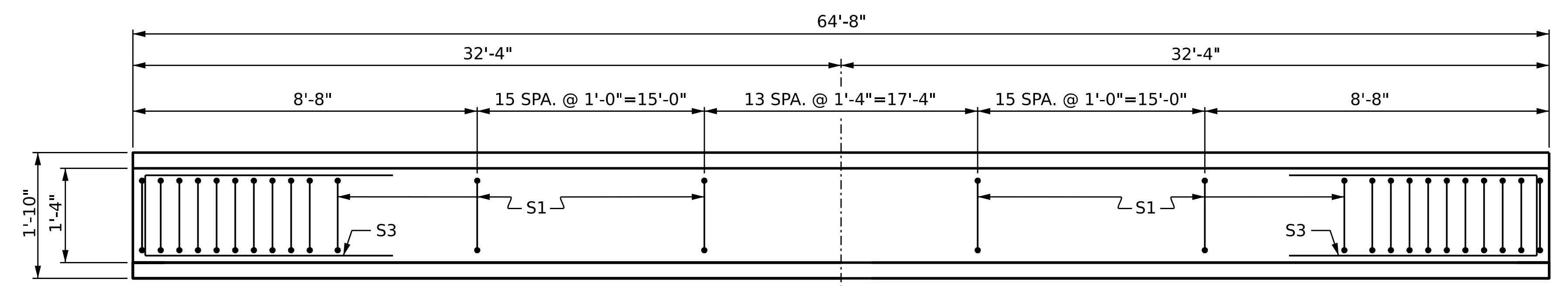
REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	64	#4	1	8'-8"	371
S3	4	#4	3	8'-8"	23
S4	168	#4	2	2'-9"	309
S5	2	#4	3	9'-6"	13
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S10	20	#6	1	7'-2"	215



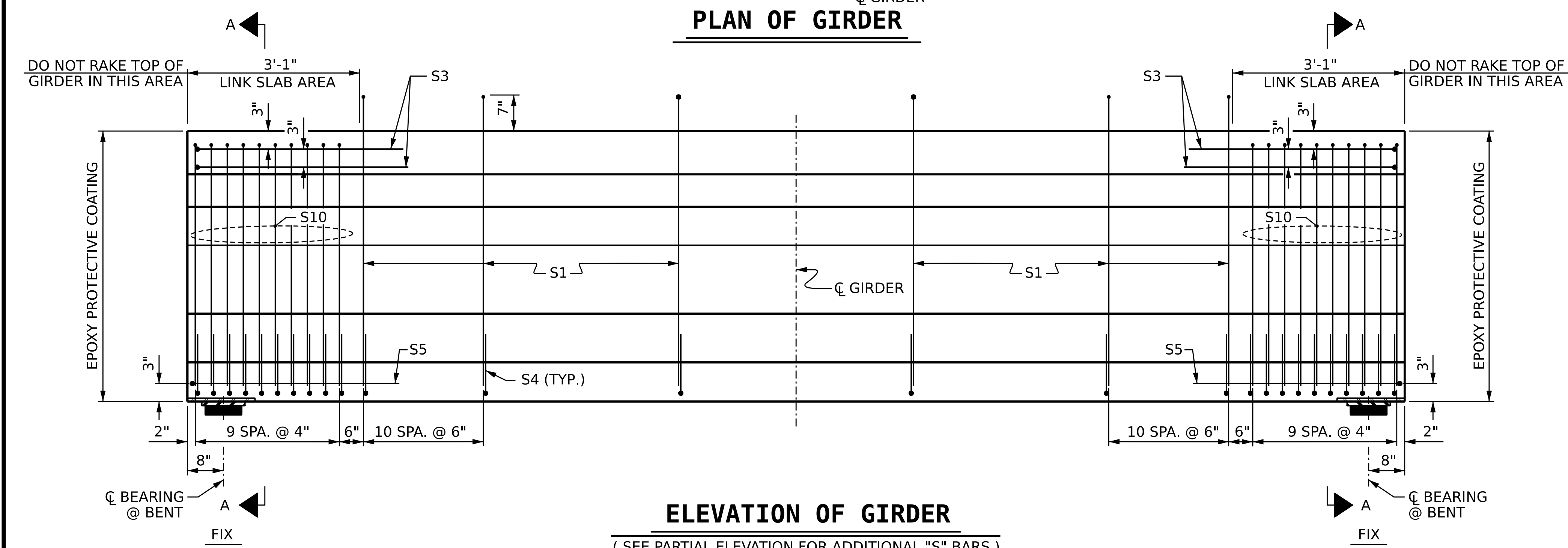
**QUANTITIES FOR ONE GIRDER**

SPAN B	REINFORCING STEEL	7,500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GIRDER QTY.	969	9.3	24

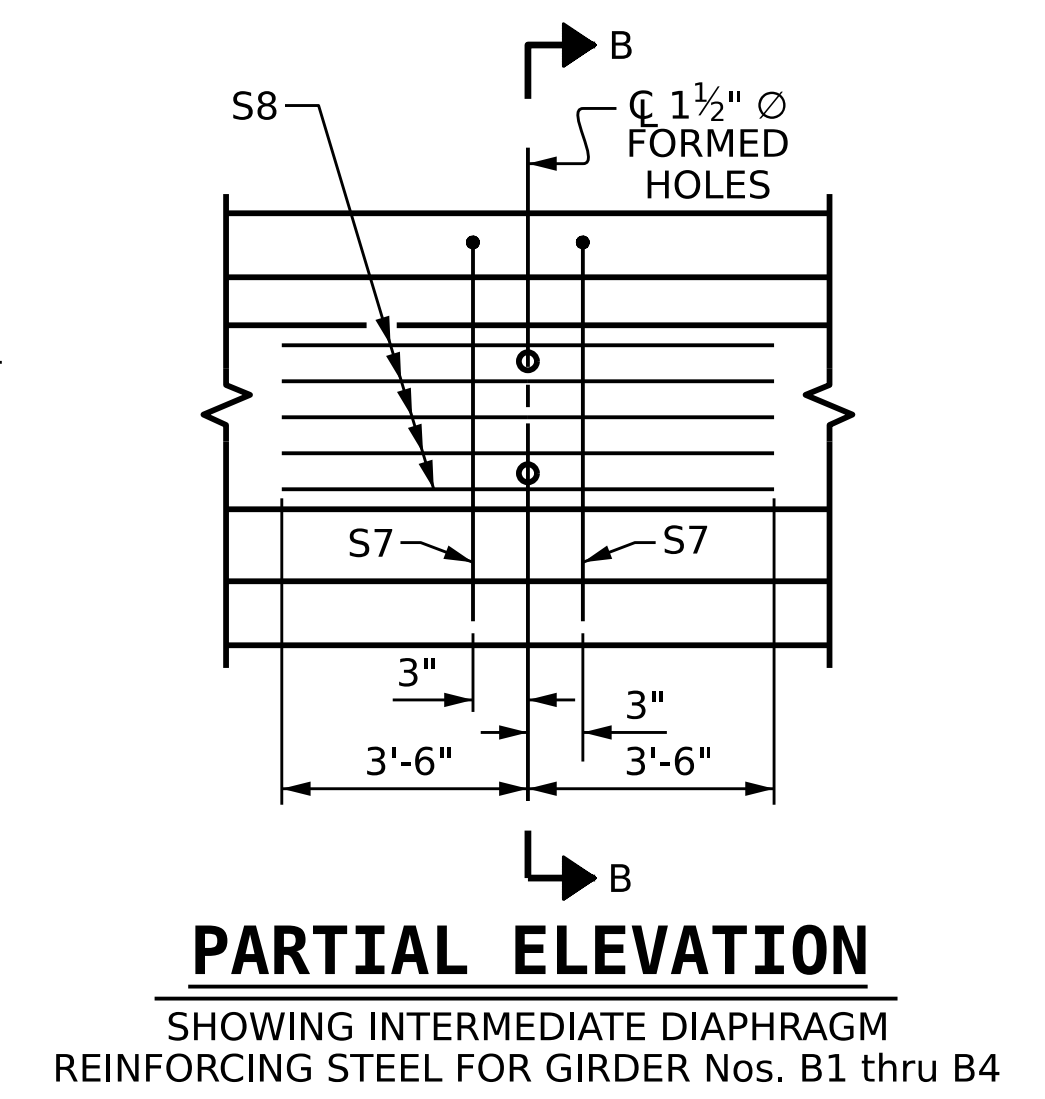
GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	64.67	258.67



**PLAN OF GIRDER**



**ELEVATION OF GIRDER**  
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



**PARTIAL ELEVATION**  
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. B1 thru B4

DRAWN BY :	BNB	09/21
CHECKED BY :	AAI	09/21
DESIGNED BY :	J. WHEATLEY	DATE : MAY 2024
DRAWN BY :	M. HOBBS	DATE : MAY 2024
CHECKED BY :	E. LAWES	DATE : MAY 2024
DESIGN ENGINEER OF RECORD :	E. LAWES	DATE : MAY 2024

**wsp**  
WSP USA Inc.  
434 FAYETTEVILLE STREET  
SUITE 1500  
RALEIGH, NC 27601  
TEL: 1.919.836.4040  
LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA  
PROFESSIONAL ENGINEER  
ELIZABETH F. LAWES  
SEAL 044167  
6/3/2024

PROJECT NO. **BR-0100**  
**RUTHERFORD** COUNTY  
STATION: **18+28.00 -L-**  
SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH			
STANDARD			
AASHTO TYPE III PRESTRESSED CONCRETE GIRDER - LINK SLAB SPAN B			
REVISIONS			SHEET NO.
NO.	BY:	DATE:	NO.
1			3
2			4
			S-14
			TOTAL SHEETS 30