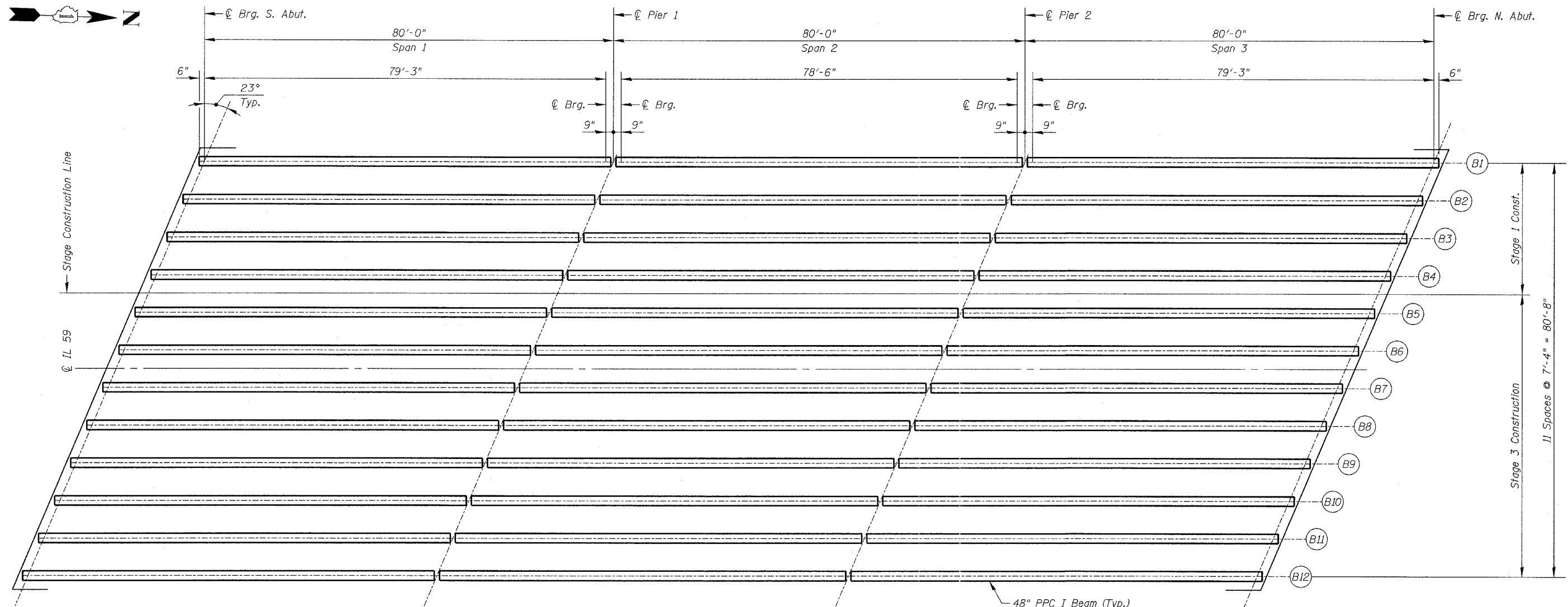


FMP No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	114 B-I	WILL	15	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**FRAMING PLAN**

**BEAM MOMENT TABLE**

	0.4 S1 0.6 S3	Pier 1 or 2	0.5 S2
I	(in <sup>4</sup> ) 144117		144117
I'	(in <sup>4</sup> ) 397956		397956
Sb	(in <sup>3</sup> ) 6834		6834
Sb'	(in <sup>3</sup> ) 11216		11216
St	(in <sup>3</sup> ) 5355		5355
St'	(in <sup>3</sup> ) 31786		31786
M <sub>D</sub>	(k') 1.320		1.320
M <sub>sD</sub>	(k') 1056		1056
s <sub>D</sub>	(k') 0.57	0.57	0.57
M <sub>sL</sub>	(k') 293	361	95
M <sub>L</sub>	(k') 617	490	506
M (Imp)	(k') 151	120	124

**INTERIOR BEAM REACTION TABLE**

	Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
R <sub>D</sub>	(k) 52.8	52.8	52.8
R <sub>sD</sub>	(k) 18.3	25.0	25.0
R <sub>L</sub>	(k) 41.0	29.2	29.2
Imp.	(k) 10.0	7.2	7.2
R (Total)	(k) 122.1	114.2	114.2

*I* and *I'* are the moment of inertia of the beam section.

*S<sub>b</sub>* and *S<sub>b'</sub>* are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

*S<sub>t</sub>* and *S<sub>t'</sub>* are the non-composite and composite section modulus for the top fiber of the prestressed beam.

*M<sub>D</sub>* is the moment due to the dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.

*M<sub>sD</sub>* is the moment due to dead loads on the composite section.

*M<sub>L</sub>* is the moment due to live load on the composite section.

*M (Imp)* is the moment due to live load impact on the composite section.

SHT. S-13 of 15

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FRAMING PLAN DETAILS**  
 ILLINOIS ROUTE 59 OVER DUPAGE RIVER  
 FAP ROUTE 338 SECTION 114 B-I  
 WILL COUNTY  
 STATION 3209+85.00  
 STRUCTURE NUMBER 099-0339  
 SCALE: NONE      DESIGNED BY: SB      DRAWN BY: TL  
 DATE: 06/29/07      CHECKED BY: WPM      CHECKED BY: SB

FILE: L:\16632\02\Cad\Sheets\Roadway Structures\Bridges\663202-50339-BM01.dgn