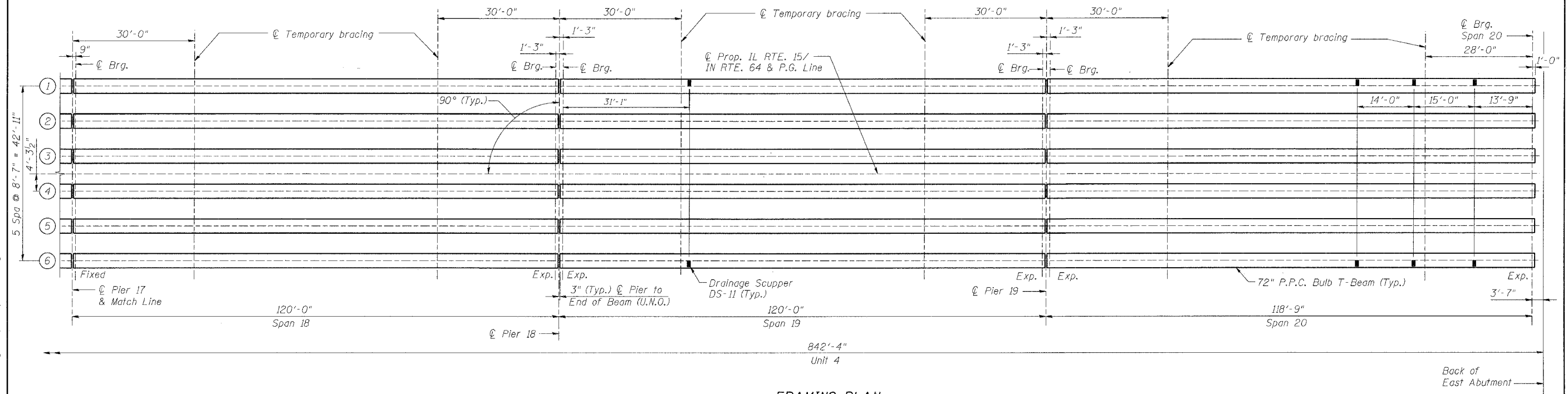
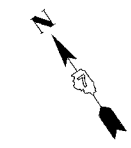


ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 827	12Z-3, 12BR	WABASH, IL GIBSON, IN	158	70
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	

BRIDGE SHEET S54 OF S114

CONTRACT
94450



FRAMING PLAN

INTERIOR GIRDER MOMENT TABLE FOR UNIT 4

	0.4 Span 14 0.6 Span 20	Pier 14 Pier 19	0.5 Span 15 0.5 Span 19	Pier 15 Pier 18	0.5 Span 16 0.5 Span 18	Pier 16 Pier 17	0.5 Span 17
I (in ⁴)	545,894	---	545,894	---	545,894	---	545,894
I' (in ⁴)	1,113,422	---	1,113,422	---	1,113,422	---	1,113,422
Sb (in ³)	14,915	---	14,915	---	14,915	---	14,915
Sb' (in ³)	20,364	---	20,364	---	20,364	---	20,364
St (in ³)	15,421	---	15,421	---	15,421	---	15,421
St' (in ³)	64,270	---	64,270	---	64,270	---	64,270
DL (k/ft)	1,691	---	1,691	---	1,691	---	1,691
M (DL) (k-ft)	2,798	---	2,919	---	2,943	---	2,968
s (DL) (k/ft)	0.583	0.583	0.583	0.583	0.583	0.583	0.583
Ms (DL) (k-ft)	657	847	283	620	372	685	342
M (LL) (k-ft)	1,175	1,106	963	1,035	950	1,073	949
M (Imp) (k-ft)	242	228	199	213	195	221	195

INTERIOR GIRDER REACTION TABLE FOR UNIT 4

	Pier 13 Span 14 E. Abut.	Pier 14 Span 14 Pier 19 Span 20	Pier 14 Span 15 Pier 19 Span 19	Pier 15 Span 15 Pier 18 Span 19	Pier 15 Span 16 Pier 18 Span 18	Pier 16 Span 16 Pier 17 Span 18	Pier 16 Span 17 Pier 17 Span 17
R (DL) (k)	99.3	99.3	99.3	99.3	99.7	99.7	100.1
Rs (DL) (k)	27.6	39.7	39.7	33.8	33.8	35.3	35.3
R (LL) (k)	50.6	93.3	93.3	90.0	90.0	91.4	91.4
Imp. (k)	10.4	13.0	13.0	12.5	12.5	12.6	12.6
R (Total) (k)	188.0	245.3	245.3	235.5	235.9	239.0	239.4

NOTES:

For Temporary Bracing Details, See Sheet S58.

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

Sb and Sb' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

St and St' are the non-composite and composite section modulus for the top fiber of the prestressed beam.

M (DL) is the moment due to dead loads on the non-composite section.

Ms (DL) is the moment due to dead loads on the composite section.

M (LL) is the moment due to live loads on the composite section.

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

DESIGNED	PA/KWS
CHECKED	JDC/MRB
DRAWN	DJL/PRT
CHECKED	JDC/KWS

benesch

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Job No. 3426

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 15/IN ROUTE 64
OVER WABASH RIVER PUBLIC WATERS
FAP 827 SECT 12Z-3, 12BR

**GIRDER FRAMING PLAN
UNIT 4**

SN: 093-0021 (IL)/9502700 (IN)
WABASH CO., IL.

STA. 1036+27
DATE: JUNE 15, 2007

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6/26/2007