



FRAMING PLAN

SPANS 1 OR 3

TABLE OF MOMENTS & SHEARS
INTERIOR BEAMS

D.L.	Max. Moment @ Sp.	Max. Shear @ Abut. & Piers
D.L.	198.3	21.8
L.L.	255.3	25.6
Impact	76.6	10.8
Total	330.2	58.2

- D.L. Dead Load
- L.L. Superimposed Dead Load on Composite Section
- Impact
- Moment of inertia Steel Section
- Section Modulus for steel section
- Section Modulus, Bottom Steel Section
- Moment of inertia Composite Section
- Section Modulus Top Composite Section
- Section Modulus Bottom Composite Section

Moments are in Ft. Kips
Reactions and Shears are in Kips

SPAN 2

TABLE OF MOMENTS & SHEARS
INTERIOR GIRDERS

D.L.	STEEL SECTION MAXIMUM MOMENT
D.L.	1210.1
S.D.L.	376.7
L.L.	979.6
Impact	220.4
Total	2786.8

D.L.	SHEAR		
	Support	Spout	Spout
S.D.L.	15.5	6.2	0
L.L.	83.4	28.0	19.4
Impact	9.8	6.5	4.3
Total	68.7	40.7	23.7

SPAN 2 PROPERTIES*

STEEL SECTION	
I _x	33377.0 in. ⁴
S _x	1106.7 in. ³
I _y	1590.9 in. ⁴
COMPOSITE SECTION	
I _c	73998.0 in. ⁴
S _{xc}	4460.0 in. ³
S _{yc}	1269.2 in. ³

*Midspan

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: J.A. [Signature]
CHECKED: [Signature]

SEPT 28 1967
APPROVED: [Signature]

**STRUCTURAL STEEL
FRAMING PLAN
EAST & WEST BRIDGES
E.A. RT. 133 SEC. 0102-683 HBK
COOK COUNTY
STATION 194+82.77**

FILE NAME = 0161000_60J16_044_existplan.dgn	USER NAME = tjenicke	DESIGNED - FSM	REVISIONS
		CHECKED - RMM	REVISIONS
		DRAWN - FSM	REVISIONS
		CHECKED - RMM	REVISIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	292
CONTRACT NO. 60J16				
ILLINOIS FED. AID PROJECT				