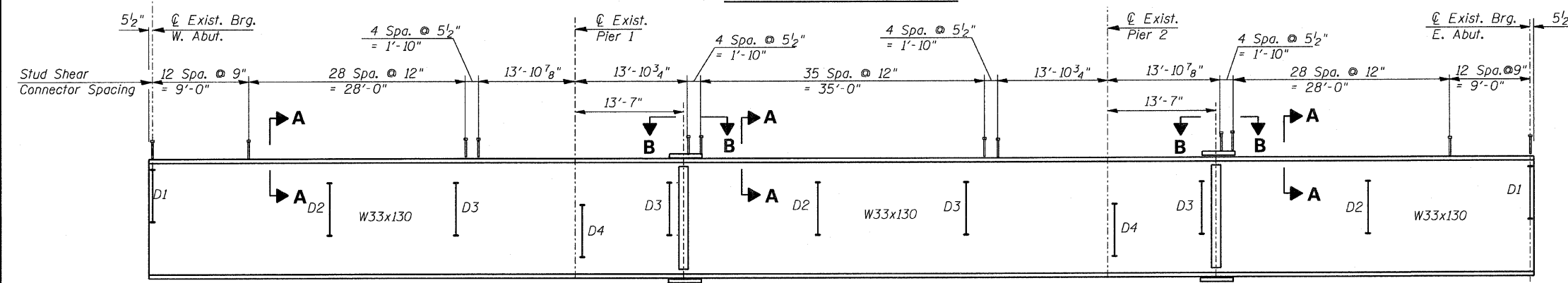
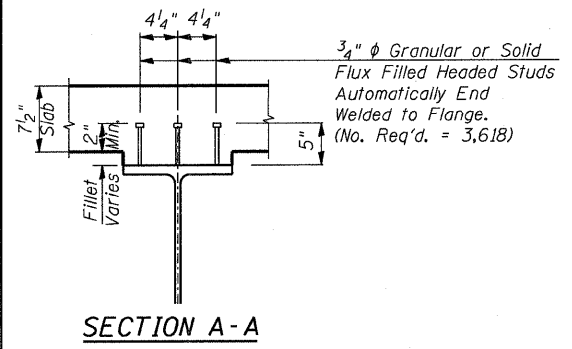


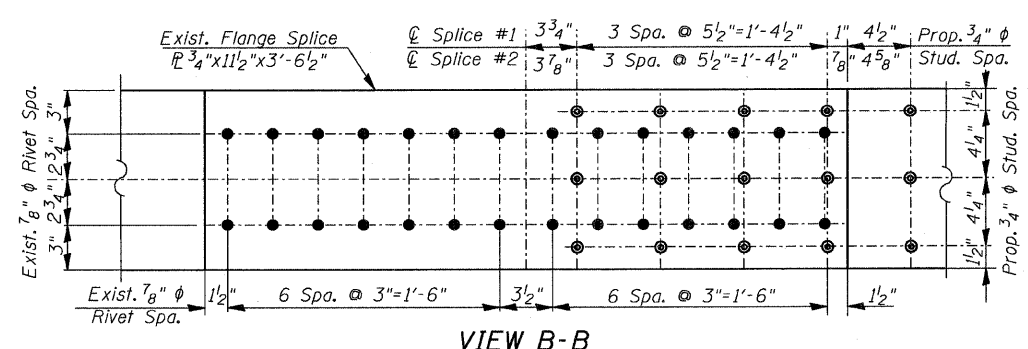
**EXISTING FRAMING PLAN**



**EXISTING BEAM ELEVATION**



**SECTION A-A**



**VIEW B-B**

Property	Unit	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
Is	(in <sup>4</sup> )	6,710	6,710	6,710	6,710	6,710
Ic (n)	(in <sup>4</sup> )	16,285	---	16,285	---	16,285
Ic (3n)	(in <sup>4</sup> )	11,900	---	11,900	---	11,900
Ss	(in <sup>3</sup> )	405.6	405.6	405.6	405.6	405.6
Sc (n)	(in <sup>3</sup> )	571.3	---	571.3	---	571.3
Sc (3n)	(in <sup>3</sup> )	515.3	---	515.3	---	515.3
Z	(in <sup>3</sup> )	---	467.0	---	467.0	---
DL	(k/ft)	0.683	1.124	0.683	1.124	0.683
M DL	(k)	129.3	384.5	130.5	384.5	129.3
s DL	(k/ft)	0.441	---	0.441	---	0.441
Ms DL	(k)	92.0	---	105.6	---	92.0
M LL	(k)	291.4	174.3	328.1	174.3	291.4
M (Imp)	(k)	82.2	47.2	85.6	47.2	82.2
5/3*[M LL + M (Imp)]	(k)	622.7	369.2	689.5	369.2	622.7
Ma	(k)	1,097.2	979.8	1,203.3	979.8	1,097.2
Mu	(k)	2,113.2	1,284.3	2,113.2	1,284.3	2,113.2
fs DL non-comp	(ksi)	3.83	11.38	3.86	11.38	3.83
fs DL (comp)	(ksi)	2.14	---	2.46	---	2.14
fs 5/3*(LL + Imp)	(ksi)	13.08	10.92	14.48	10.92	13.08
fs (Overload)	(ksi)	19.05	22.30	20.80	22.30	19.05
fs (Total)	(ksi)	---	---	---	---	---
VR	(k)	45.9	---	34.9	---	45.9

Reaction	W. Abut.	Pier 1	Pier 2	E. Abut.
R DL (K)	22.4	74.3	74.3	22.4
R LL (K)	33.3	37.7	37.7	33.3
Imp. (K)	9.4	10.2	10.2	9.4
R (Total) (K)	65.1	122.2	122.2	65.1

Reaction	W. Abut.	Pier 1	Pier 2	E. Abut.
R DL (Steel) (K)	2.9	10.0	---	2.9
Min. Jack (K)	4.4	15.0	---	4.4

**BILL OF MATERIAL**

Item	Unit	Total
Stud Shear Connectors	Each	3,618
Structural Steel Removal	Pound	81,250
Jack and Remove Existing Bearings	Each	27
Cleaning and Painting Steel Bridge, No. 2	L. Sum	1
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum	0.5

\* Includes jacking & removal of existing rocker & roller bearings at the Abutments & Pier 2 (Beams 2-10 only). Fixed bearings at Pier 1 (Beams 2-10 only) are to remain in place. Removal of all remaining bearings is included with "Structural Steel Removal".

**EXISTING BEAM & DIAPHRAGM TABLE**

Span	Beam	Diaphragms D1 thru D4
1-3	W33x130	W16x36

- Notes:
- All dimensions and other info for the existing steel beams and diaphragms were taken from existing bridge plans (not as-builts).
  - The Contractor shall verify all dimensions in the field.
  - The Contractor shall submit for approval by the Engineer plans for jacking existing superstructure prior to commencing any work at the bearings. This submittal shall be prepared and sealed by a licensed Structural Engineer in Illinois.
  - Jacking and removing existing bearings shall be done after the existing deck removal is completed and before the new deck is poured.
  - The new structural steel and bearings shall be in place and the jacks shall be lowered before the new concrete deck is poured.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FRAMING PLAN**  
31 ST. STREET OVER KILBOURN AVE.  
F.A.U. ROUTE 1463 SECTION 159-1010.1B  
COOK COUNTY  
STATION 223+67.45  
STR. NO. 016-0872

SCALE: VERT. HORIZ.  
DATE: APRIL 2008

DRAWN BY: JHR  
CHECKED BY: CLS