

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 2 SHEETS
		COOK	5	4	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 62886		

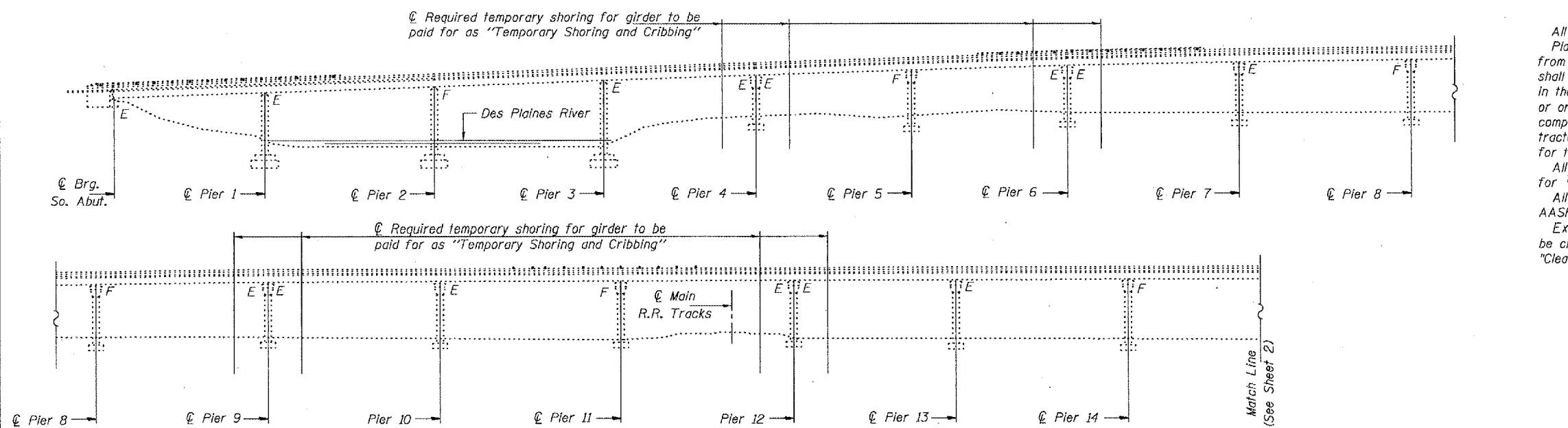
**GENERAL NOTES**

All new structural steel shall conform to AASHTO Classification M-270 Gr. 36. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

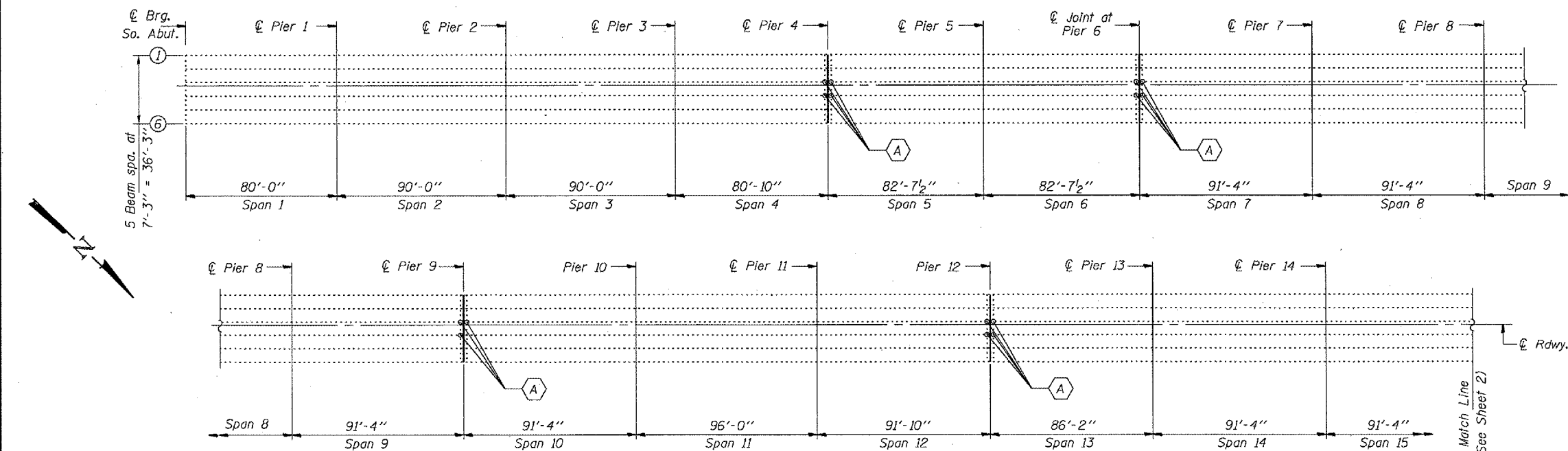
All new fasteners shall be high strength bolts. Holes shall be  $1\frac{5}{16}$ "  $\phi$  for  $1\frac{3}{8}$ "  $\phi$  high strength bolts.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.

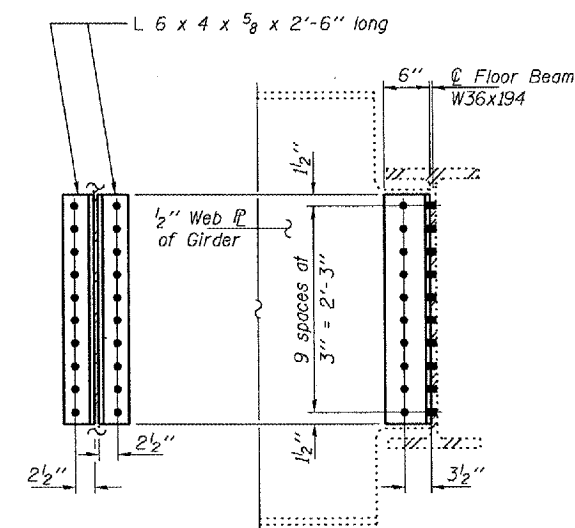
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".



**PARTIAL ELEVATION**



**PARTIAL PLAN**



**REPAIR A**  
(31 required)

**TOTAL BILL OF MATERIAL**

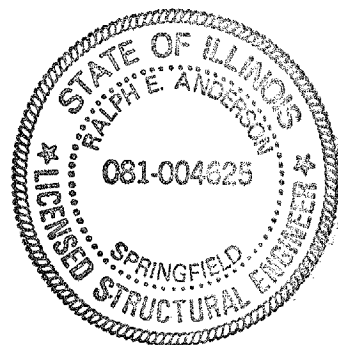
ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	3880
Temporary Shoring & Cribbing	LS	1

(A) Existing Ls 4 x 4 x  $\frac{3}{8}$  to be replaced with Ls 6 x 4 x  $\frac{5}{8}$  x 2'-6" long. (Existing Ls to be removed using the air-arc method and grind smooth all weld material remaining.)

**\* REACTION TABLE FOR TEMPORARY SHORING (Per Girder)**

	Pier 4	Pier 6	Pier 9	Pier 12	Pier 15	Pier 18	Pier 21	Pier 25	Pier 29
R <sub>R</sub> +S <sub>R</sub> (k)	49.1	52.2	52.2	51.5	52.2	52.2	51.4	56.4	60.0
R <sub>L</sub> (k)	45.7	46.6	46.6	46.6	46.6	46.6	51.5	52.4	52.9
Imp. (k)	11.2	10.9	10.9	10.9	10.9	10.9	11.9	11.6	11.5
Total (k)	106.0	109.7	109.7	109.0	109.7	109.7	114.8	120.4	124.4

\* Larger reaction at pier used.



Expires 11-30-06

DESIGNED Victor H. Velazquez February 3, 2005  
 CHECKED Paul J. Johnson  
 DRAWN baliva  
 CHECKED PSJ VHV  
 EXAMINED John A. Morris  
 PASSED Robert Anderson

**BRIDGE REPAIRS**  
**US 45 (LaGRANGE ROAD)**  
**SEC. 462-X-B & R**  
**COOK COUNTY**  
**SN 016-2467 (NB)**