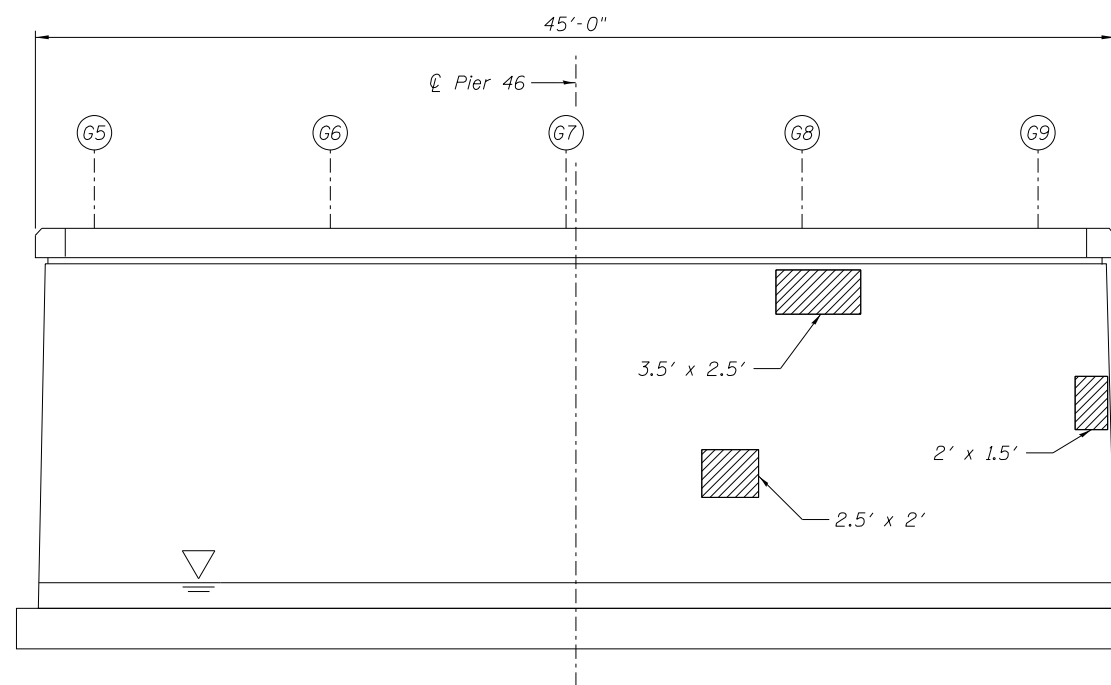
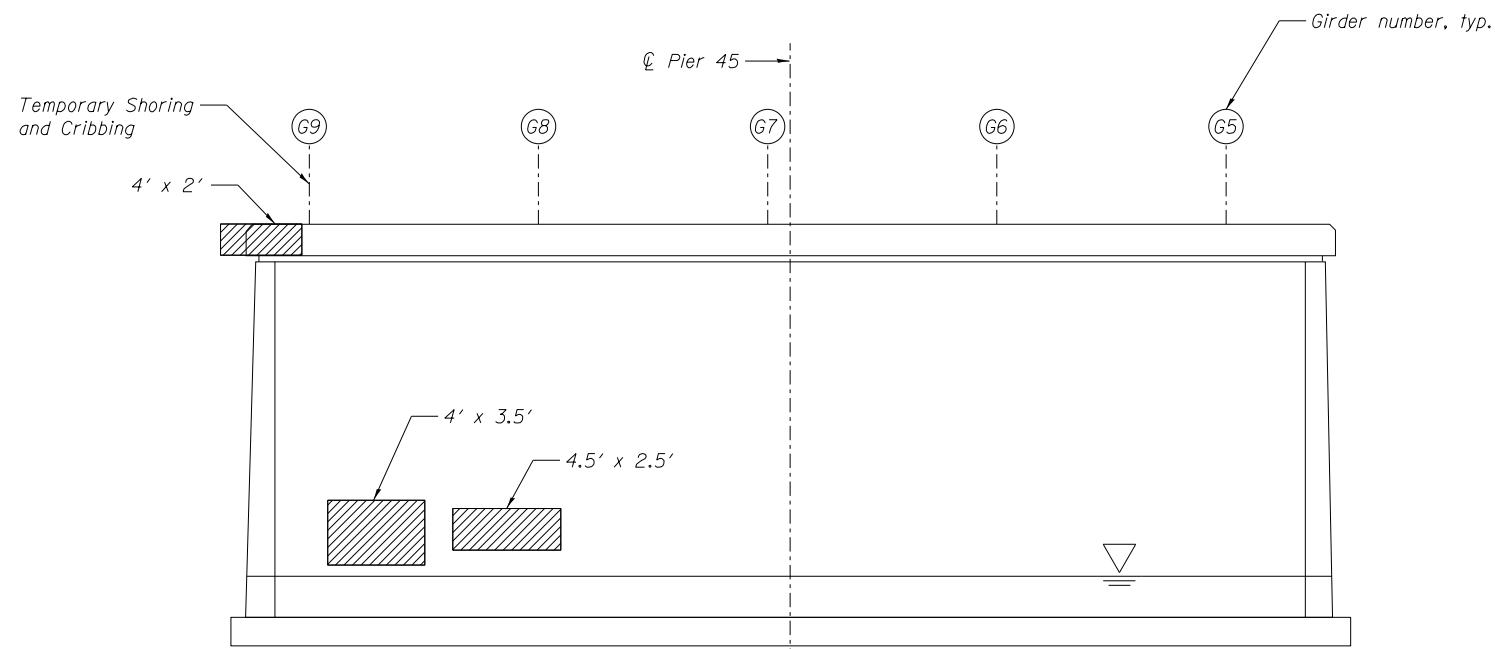


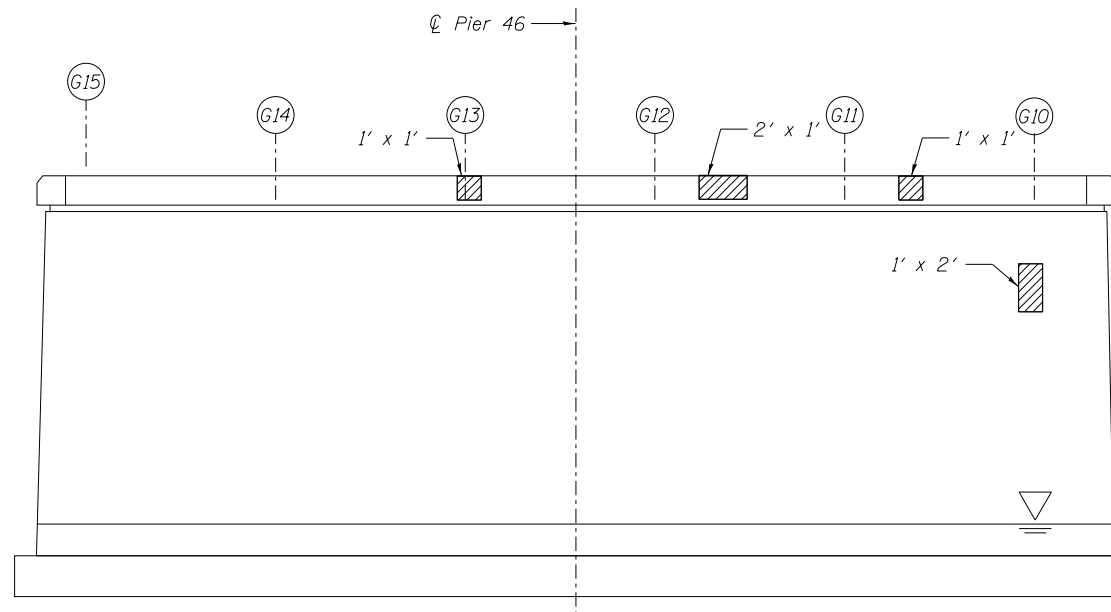
**PIER 45**  
Looking East



**PIER 46**  
Looking East



**PIER 45**  
Looking West



**PIER 46**  
Looking West

**UNFACTORED BEAM REACTIONS (KIPS)**

LOCATION	DEAD LOAD (steel and concrete)
G9	54.4

**LEGEND**

Structural Repair of Concrete  
(Depth Equal to or Less Than 5 Inches)

5' Epoxy Crack Injection

**NOTES:**

- Actual quantities of repairs shall be approved by the Engineer.
- If Temporary Shoring and Cribbing is required to perform a concrete repair, shoring and repair shall be done with no live load on the bridge.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	65
Epoxy Crack Injection	Foot	2
Temporary Shoring and Cribbing	Each	1

**benesch**  
engineers · scientists · planners  
Alfred Benesch & Company  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10093

FILE NAME =	USER NAME = tjenicke	DESIGNED - JLS	REVISED -
		CHECKED - AJK	REVISED -
		DRAWN - FSM	REVISED -
		CHECKED - AJK	REVISED -
0161026.60J16.016.pierrepair45.46.dgn	PLOT SCALE =		
	PLOT DATE = 12/20/2013		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIERS 45 AND 46 CONCRETE REPAIR DETAILS**  
**STRUCTURE NO. 016-1026**

SHEET NO. SF16 OF SF17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	559
CONTRACT NO. 60J16				
ILLINOIS FED. AID PROJECT				

X:\100005\10093\Eng\_Docs\_Phase\_1\1\SN\_016\_1026\_SB\_1st\_Ave\_Ramp\_cover\_Des\_Plaines\_River\Final\1026\0161026\_60J16\_016.pierrepair45\_46.dgn 2:45:36 PM 6/23/2014