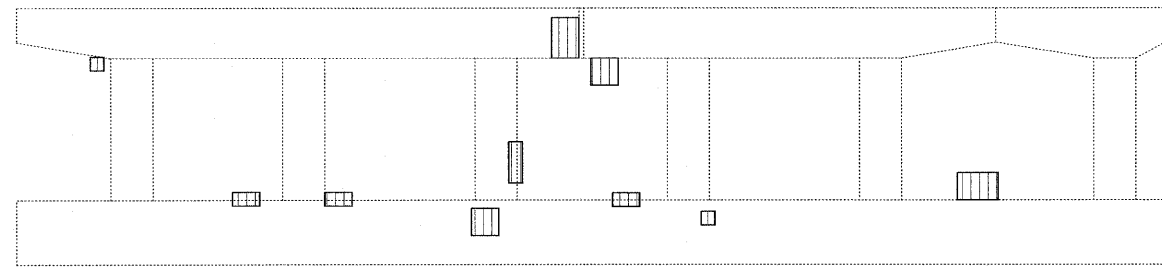
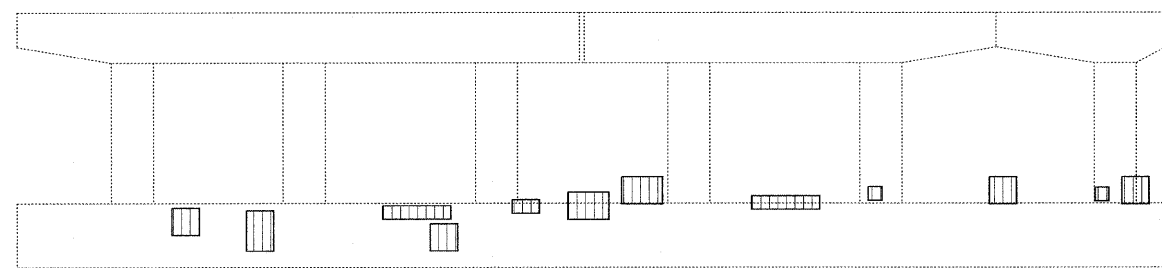


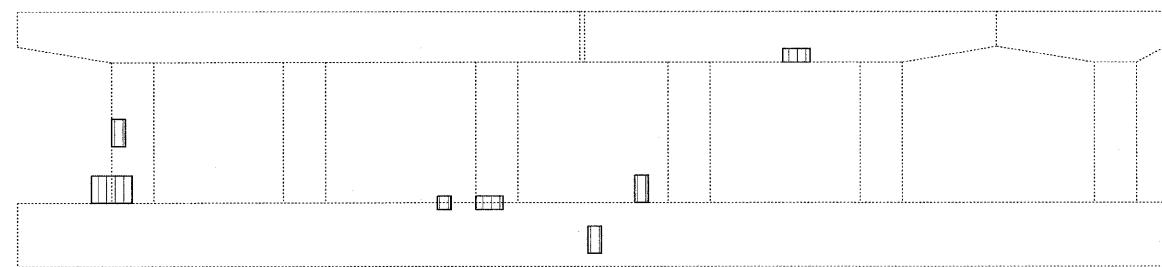
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



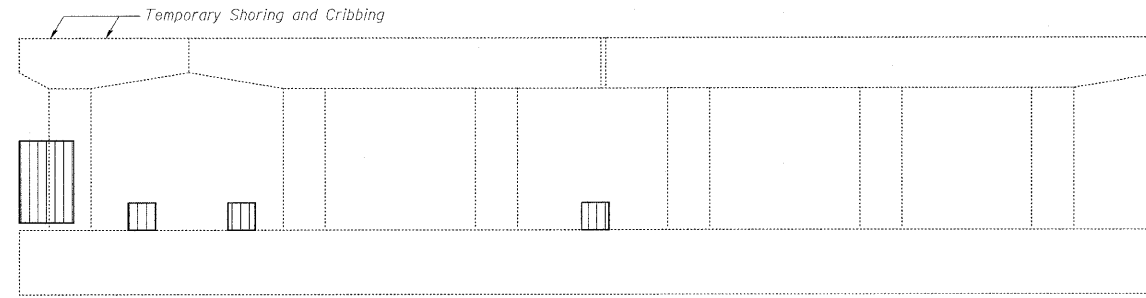
PIER 1 REPAIRS - EAST FACE



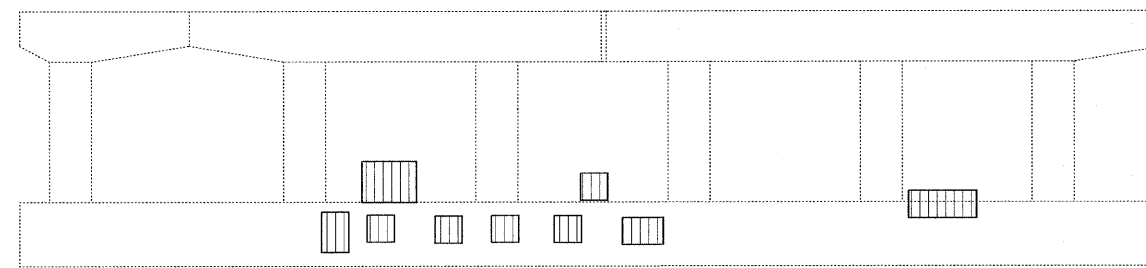
PIER 2 REPAIRS - EAST FACE



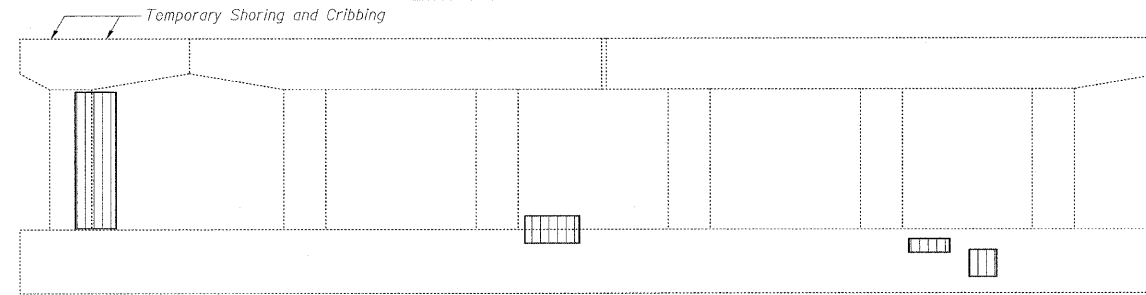
PIER 3 REPAIRS - EAST FACE



PIER 1 REPAIRS - WEST FACE



PIER 2 REPAIRS - WEST FACE



PIER 3 REPAIRS - WEST FACE

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	221
	Temporary Shoring and Cribbing	Each	4

BEAM REACTIONS (KIPS)

DEAD LOAD	LIVE LOAD	IMPACT LOAD	TOTAL
44.7	43.6	12.8	101.1

Notes:

- Pier substructure repair type and areas are estimated based on IDOT field notes from August 2009. Actual repair areas and locations shall be determined by the Engineer and shown on As-Built plans.
- Temporary Shoring and Cribbing shall be provided per the Special Provisions for "Structural Repair of Concrete" and "Temporary Shoring and Cribbing".
- The tabulated beam reactions were taken from the existing construction plans. The Contractor shall verify that the equipment used to support the beams is sufficient to carry these loads in addition to any temporary construction loads.

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS

SUBSTRUCTURE REPAIR  
STRUCTURE NO. 022-0005

**benesch**

alfred benesch & company  
Engineers - Surveyors - Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 15 25 SHEETS	F.A.I. RTE. 290	SECTION 2009-099 BR	COUNTY COOK/DUPAGE	TOTAL SHEETS 309	SHEET NO. 259
	CONTRACT NO. 60157				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			