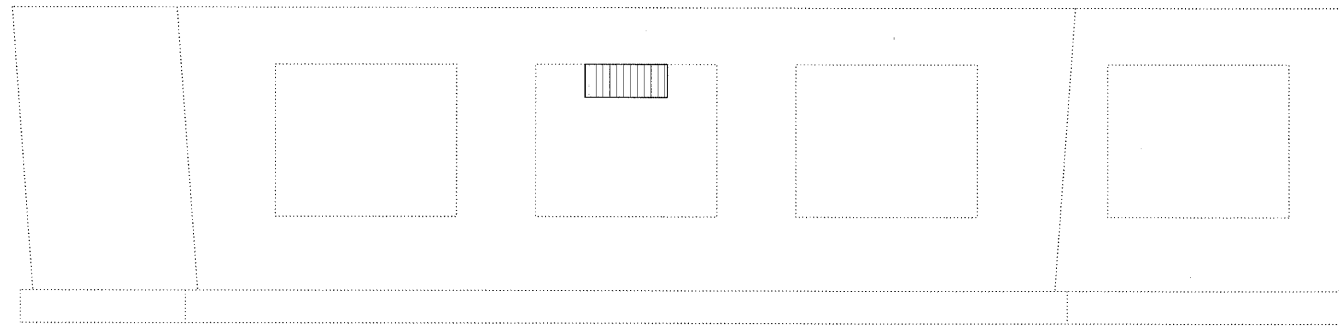
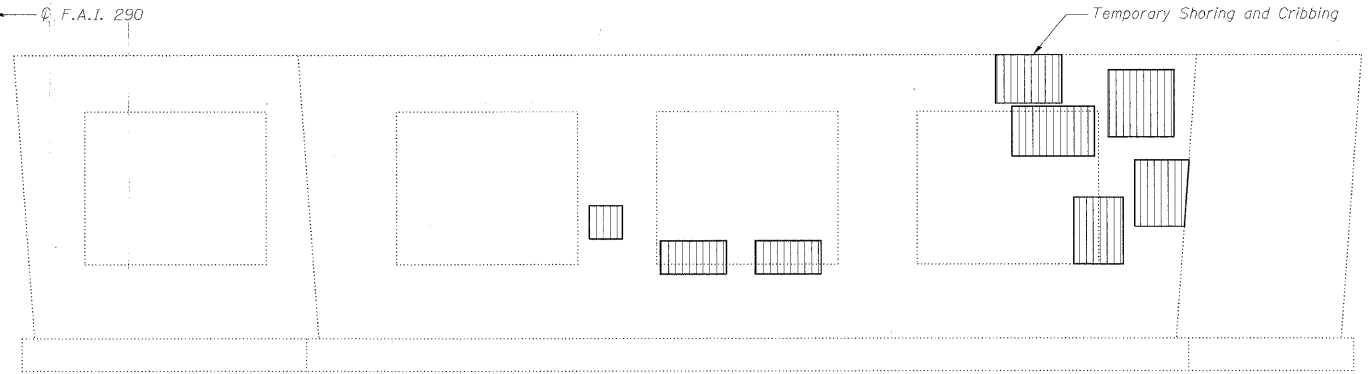


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DEPARTMENT OF TRANSPORTATION

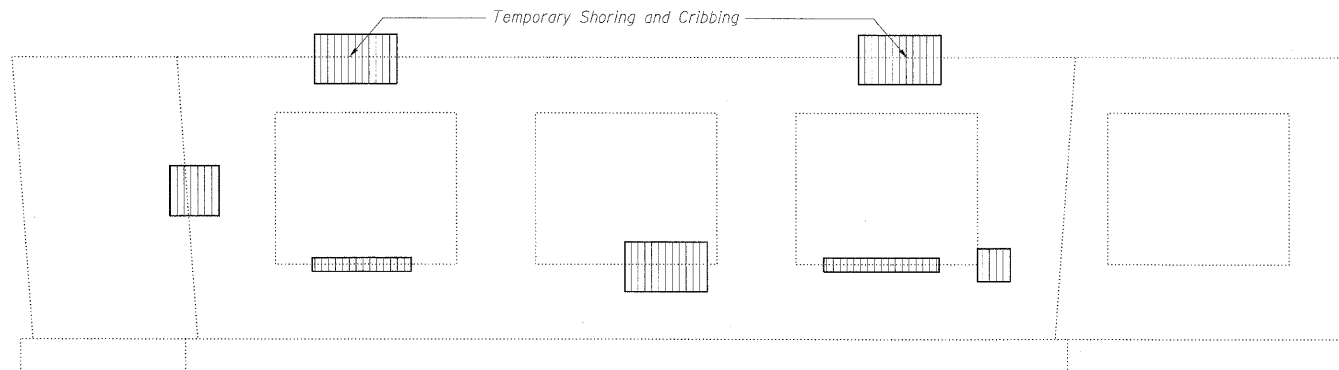
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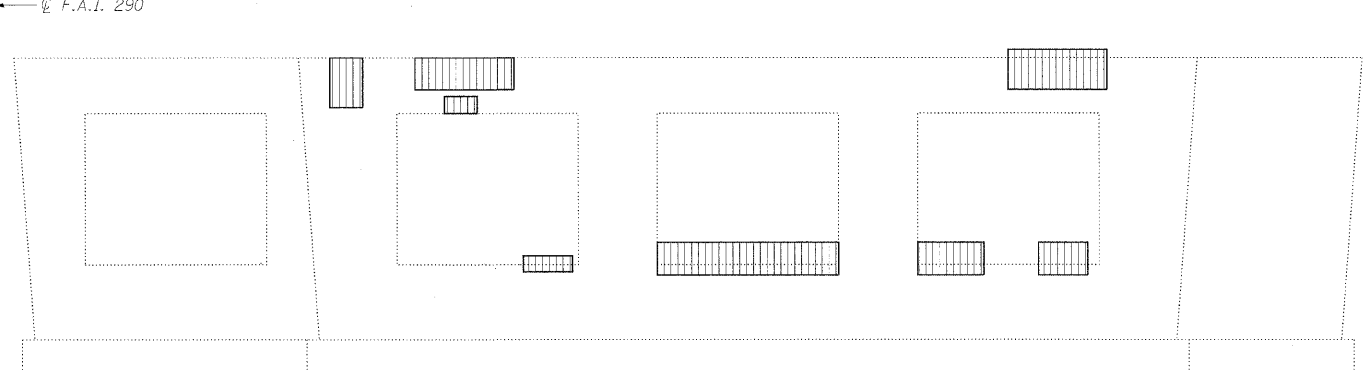
ELEVATION - PIER F, SOUTH FACE



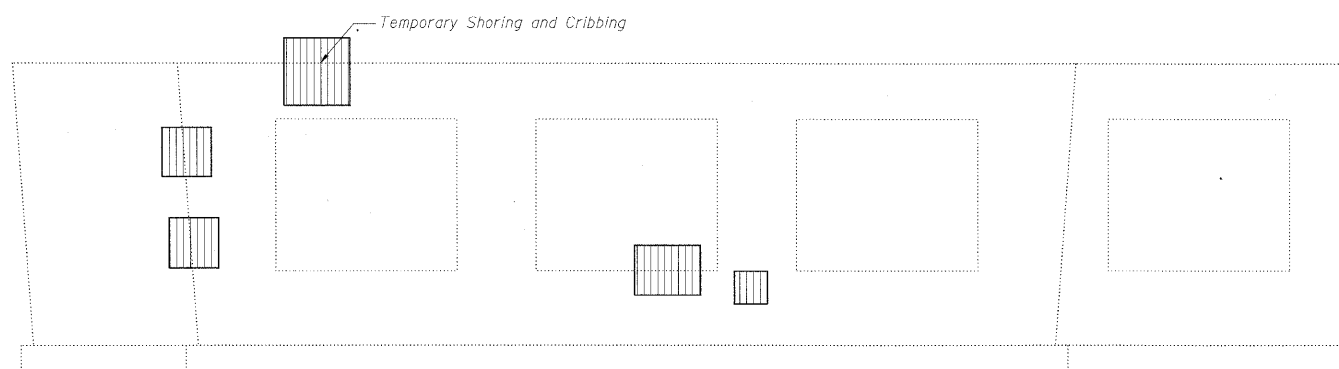
ELEVATION - PIER F, NORTH FACE



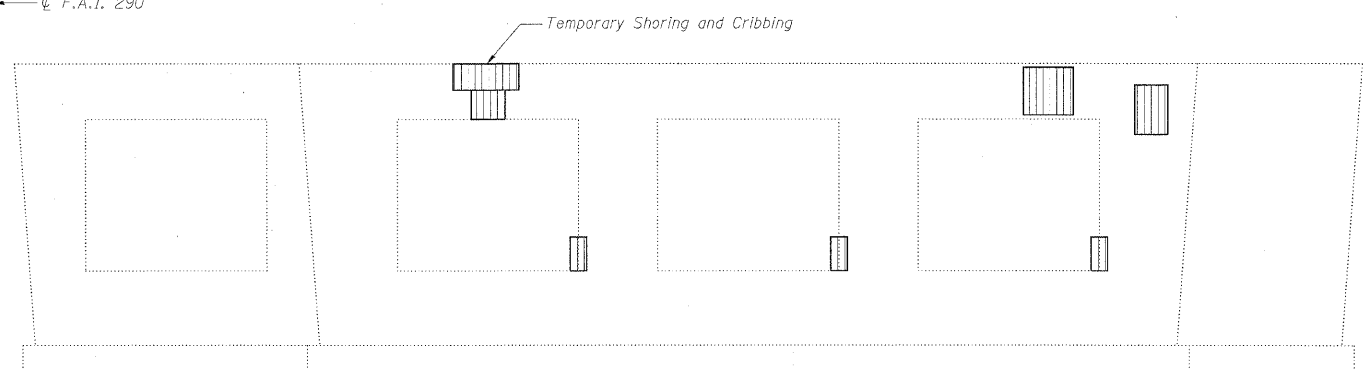
ELEVATION - PIER E, SOUTH FACE



ELEVATION - PIER E, NORTH FACE



ELEVATION - PIER D, SOUTH FACE



ELEVATION - PIER D, NORTH FACE

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	343
	Temporary Shoring & Cribbing	Each	5

BEAM REACTIONS (KIPS)

DEAD LOAD	LIVE LOAD	IMPACT LOAD	TOTAL
56.4	40.9	8.5	105.8

SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-0084

Notes:

- Substructure repair areas are estimated based on IDOT field notes from August 17, 2009.
- Temporary Shoring and Cribbing shall be provided per the Special Provisions for "Structural Repair of Concrete" and "Temporary Shoring and Cribbing".
- Interference is expected from existing conduits. The Contractor shall remove and reerect or temporarily support the existing conduits to complete the work as detailed. When the work is completed the conduits shall be reconnected to the reconstructed abutment or pier utilizing the existing mounting brackets or new mounting brackets. All labor, equipment, and materials necessary for removing and reinstalling or temporarily supporting the existing conduits shall be included in the cost for Structural Repair of Concrete (Depth Equal to or Less than 5 Inches).

Notes (cont'd):

- 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 -	TJJ
CHECKED -	AAY
DRAWN -	RMG
CHECKED -	AAY

benesch

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

SHEET NO. 8 9 SHEETS	F.A.I. RTE. 290	SECTION 2009-099 BR	COUNTY COOK/DUPAGE	TOTAL SHEETS 309	SHEET NO. 147
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60157	