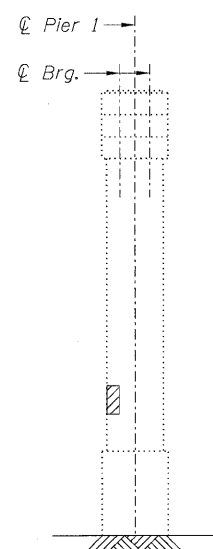


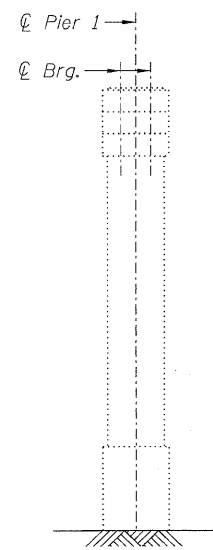
STRUCTURAL REPAIR OF CONCRETE

NOTES:

- For general notes and total bill of material, see sheet 21.
- Existing reinforcing bars that have been cut and/or damaged during repair operations shall be supplemented by new in kind reinforcing bars. New bars shall be lapped a minimum of 32 bar diameters to existing bars. A mechanical bar splicer shall be used when it is not feasible to provide the minimum bar lap. No welding of bars shall be performed. See special provisions.
- Crack widths shown to be repaired are $\frac{1}{8}$ " +/- $\frac{1}{16}$ " unless otherwise noted.
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction. Increases to plan quantities shall be approved by the Tollway prior to performing the work.
- All exposed areas of bridge seats to remain shall be cleaned in accordance with Special Provisions.
- The Contractor shall take all necessary precautions for the protection of passing vehicles from falling objects and/or materials until completion of the work. All necessary precautions shall be included in bid price for Structural Repair of Concrete (Depth Equal to or Less Than 5") and Structural Repair of Concrete (Depth Greater Than 5").
- The Contractor is responsible to remove and reinstall all existing utilities (such as drain pipes, electrical conduits, junction boxes and light fixtures) interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less Than 5") and Structural Repair of Concrete (Depth Greater Than 5").
- All exposed surfaces of bridge seats, pier cap, columns and crashwall shall be cleaned and sealed in accordance with the special provisions for Power Washing Concrete Surfaces and Concrete Sealant, respectively.



WEST END ELEVATION



EAST END ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealant	Sq. Ft.	3680
Power Washing Concrete Surfaces	Sq. Yd.	409
Structural Repair Of Concrete (Depth Equal To Or Less Than 5")	Sq. Ft.	4
Structural Repair Of Concrete (Depth Greater Than 5")	Sq. Ft.	3
Cleaning Bridge Seats	Sq. Ft.	329

LEGEND

- Hairline Crack (Not to be Sealed) SF - Square Foot
- Low Pressure Epoxy Injection LF - Linear Foot
- Structural Repair of Concrete (Depth Equal To Or Less Than 5") HL - Hairline
- Structural Repair of Concrete (Depth Greater Than 5")

HBM
ENGINEERING GROUP, LLC.

FILE NAME = RR-10-56135-0101-PRI.sht	USER NAME =	DESIGNED - MI, SRG	REVISED -
		CHECKED - MI, MAI	REVISED -
	PLOT SCALE =	DRAWN - LAK, SRG	REVISED -
	PLOT DATE = 6/26/2011	DATE - 6/24/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 1 REPAIRS
STRUCTURE NO. 016-0199**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2001-001BR	COOK	62	46
			CONTRACT NO. 62099	
ILLINOIS FED. AID PROJECT				