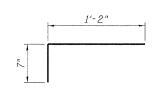
Note: Remove existing concrete pad over manhole lid. Paid for as Concrete Removal.

MANHOLE REINFORCEMENT DETAILS

(4 Locations)

<u>BAR LIST</u>

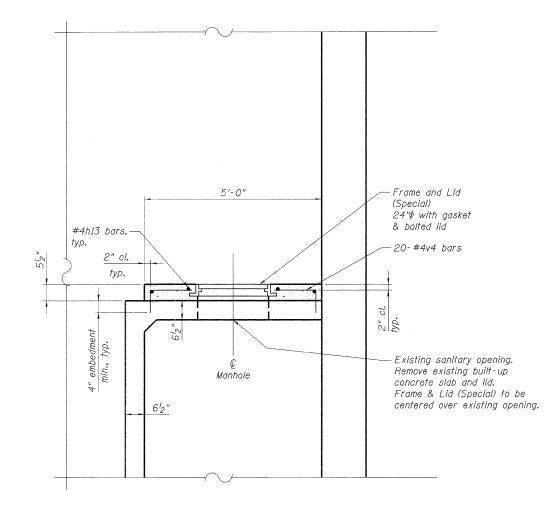


BAR v4

Bar	No.	Size	Length	Shape
h13	32	#4	4'-8"	
v4	80	#4	1'-9"	<u> </u>

BILL OF MATERIAL

Item	Unit	Total	
Concrete Removal	Cu. Yd.	0.8	
Reinforcement Bars	Pound	190	
Concrete Box Culverts	Cu. Yd.	1.7	
Frame and Lid, Special	Each	4	



SECTION A-A

(4 Locations)

NOTES:

- 1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Drill and epoxy grout bars in drilled holes according to Section 584 of the IDOT Standard Specifications. Method and grout are subject to the approval of the Engineer. The cost of drilling and grouting shall be included with Reinforcement Bars.
- Prior to placing new concrete, the existing surface shall be cleaned and prepared according to the Surface Preparation section of the Guide Bridge Special Provision for Structural Repair of Concrete.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - MDJ	REVISED -	STATE OF ILLINOIS	SECTIONS & DETAILS	F.A. SECTION	COUNTY TOTAL SHEET
\$FILEL\$		DRAWN - MDJ	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET 2 OF 5	998 82-1A	ST. CLAIR 190 158
TENG & ASSOCIATES, INC.	PLOT SCALE = \$SCALE\$	CHECKED - JLR	REVISED -	I-70 CONNECTION		SN 082-2010	CONTRACT NO. 76C41
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = \$DATE\$	DATE - 02/04/11	REVISED -	CAHOKIA CANAL BOX CULVERT REPAIR PLANS	SCALE: SHEET NO. S-15 OF S-18 STA. 150+80.33 TO STA.		AID PROJECT