



*Adjust bar locations as required to miss existing reinforcement and conduit. Maintain l_2'' cl. from reinf to conduit. **Drill holes in anchor plate to allow for placement of $d_5(E)$ bars

Design Notes:

The foundations were designed to support 18" diameter vertical and horizontal poles and a 5.3 kip vertical dead load to each foundation along with the effects of wind loading. Refer to Sheet SI36 for the proposed anchor bolt layout as dimensioned in the Anchor Rod Detail. Variation in the anchor bolt diameter or layout and/or increase in pole size or weight shall require the reanalysis of the proposed foundation for adequacy. This analysis shall be performed, sealed, and submitted for the Engineer's approval by an Illinois SE at no additional cost.

Fatigue loading was ignored for foundation design.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges and the Manual for Bridge Evaluation, 2nd Edition, with 2011 and 2013 Interims 2001 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals with 2002, 2003, and 2006 Interims

DESIGN STRESSES

<u>FIELD UNITS</u> f'c = 3,500 psi fy = 60,000 psi (Reinforcement) fy = 50,000 psi (Anchor Plate)

EXISTING CONSTRUCTION

<u>FIELD UNITS</u> f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

ANCHOR RODS: Shall conform to ASTM F1554 Grade 105.



(Not showing Bottom bars or longitudinal bars in Deck for clarity) (South Parapet Shown, North Parapet Similiar)

	LIN ENGINEERING, LTD. Consulting Engineers Springfield. Illincis	USER NAME = FILE NAME = PLOT SCALE =	DESIGNED - RPW CHECKED - LMS DRAWN - AJF	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOUNDATION DETA S.N. 082–6001 MLK BRIDGE OVER
		PLOT DATE = 05/02/2014	CHECKED - LMS	REVISED -		SHEET NO. S135 OF S138

DETAILS 1		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	153		
		CONTRACT NO. 76B03					
S138 SHEETS		ILLINOIS FED. AID PROJECT					