



**GENERAL NOTES**

**LOADING:** AASHTO Specifications, 2007 Edition and 2009 Interim Specifications. Load and Resistance Factor Design

**UNIT STRESSES:**  
 Concrete  $F'_c = 4,000$  p.s.i.  
 Reinforcing Steel  $F_y = 60,000$  p.s.i.

**CONSTRUCTION:** The Contractor must use precast construction plus cast-in-place end sections.

**JOINTS:** Construction Joints shall only be formed at locations shown or as approved by the Engineer

**EXCAVATION:** All excavation and backfill shall extend 2 feet beyond the sides of the box and wingwall.

**CONFLICT:** If RCB plan notes conflict with the General Notes from this sheet, then these General Notes will govern.

**PAYMENT:** The RCB shall be bid as a Linear Feet and shall include all labor, material, excavation, concrete, reinforcing steel, seal course, precast box sections, and any other incidentals necessary to complete the work as described in the plans. Quantities shown are for information only.

**REMOVAL OF EXISTING STRUCTURE:** See Sheet No. 5 for Clarification.

**PRECAST NOTES**

**PRECAST CONCRETE:** Precast Box Sections shall meet the appropriate design and inspection requirements of A.S.T.M. Designation C850, Table 2 or C789, Table 2 whichever is critical and the Loading Specifications. The intermediate joints shall be sealed with a mastic compound which shall be provided for approval with the shop detail submittal. The Contractor shall furnish, to the Engineer, detail plans and shop drawings showing the proposed precast layout and all other details for manufacture and delivery of any precast items to be incorporated into the work.

**SEAL COURSE:** A Seal Course shall be constructed below the R.C.B. as shown in the Plans. The Seal Course below Precast Sections shall consist of a 6 inch Granular Base (ASTM 67). No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.

**REINFORCING STEEL:** All dimensions relative to reinforcing are to centerline of bars unless otherwise noted. Bar bending and dimensions shall be as shown and noted on the Bar Bending Diagrams. Reinforcing used in the Precast Sections is not required to be epoxy coated. The concrete cover for all reinforcing shall be 1 1/2" minimum unless otherwise noted. A revised bar schedule will be required at shop detail submittal for any deviation from plan scope.

Doweling details between pre-cast and cast-in-place ends must be submitted for approval by the Engineer.

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**PLAN**

**DRAINAGE DATA**

Drainage Area .....	0.70 Sq. Mi.
Design Frequency .....	25 Yr.
Design Discharge $Q_{10}$ .....	709 CFS
Design High Water Elevation .....	1340.15 Ft.
Change in Design Backwater .....	-0.10 Ft.
Design Backwater Elevation .....	1341.39 Ft.
Overtopping Elevation (219+62.00) .....	1341.30 Ft.
Overtopping Discharge .....	890 CFS
Overtopping Frequency .....	55 Yr.
Discharge at $Q_{100}$ .....	1027 CFS
Change in Backwater at $Q_{100}$ .....	-0.07 Ft.
Backwater Elevation at $Q_{100}$ .....	1342.08 Ft.
Historic High Water Elevation .....	Unknown Ft.
Ordinary High Water Elevation .....	1341.32 Ft.
Total Waterway Provided .....	100 Sq. Ft.
Design Waterway Provided .....	100 Sq. Ft.
Estimated Ordinary High Water Discharge .....	300 CFS

135TH ST.		By	Date
Sta. 220+25.08			
<b>RCB LAYOUT</b>			
<b>2-10'x6'</b>			
GARY JANZEN, P.E.-CITY ENGINEER CITY OF WICHITA PROJECT NO. 472-84915			
<b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	MLB	Job No.	10281
Drawn by	CP	Date	JAN, 2013
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