

GENERAL NOTES

LOADING: HS20-44 A.A.S.H.T.O. Specification, 2004 Edition.

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

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 R.C.B. plan notes conflict with the General Notes from this sheet, then these General Notes will govern.

PAYMENT: The Linear Foot bid item "Precast 8'X3' R.C.B." shall include all material, labor, excavation, concrete, reinforcing, dowels, rock base, excavation and any other incidentals necessary to complete the work.

EXISTING STRUCTURE: At the existing headwall, the wings and floor are to be removed, salvaging as much horizontal steel protruding from the headwall as possible. If the horizontal steel is damaged then the contractor shall drill and grout tie bars a minimum of 9' into the existing headwall. See Existing R.C.B. Concrete Removal Sheet for existing structure removal extent.

MANHOLE OPENINGS: At each of the manhole opening locations in the precast concrete box sections a distribution slab must be attached to the top of the RCB at the manhole opening. See Manhole Details Sheet for more information.

HANDRAIL: All work associated with furnishing and installing headwall rail shall be paid for as "Handrail (Steel) (Pedestrian)."

CONCRETE: Bevel all exposed edges with a $\frac{3}{4}$ " triangular molding or finish with an approved edging tool. Concrete shall be as per City of Wichita Standard Specifications for concrete paving mix except that it shall have a minimum 28 day compressive strength of 4000 p.s.i. unless noted.

REINFORCING STEEL: All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted. All reinforcing steel shall conform to A.S.T.M. Designation A615 Grade 60 and shall be epoxy coated. All clearances shall be 2" unless otherwise noted.

DRILLING AND GROUTING: Drilling and Grouting shall consist of grouting reinforcing steel into the existing concrete, where required by the engineer, with an epoxy grout Sikadur 32 Hi-Mod or equal. Drill the holes to the specifications required by the grout manufacturer and in such a manner as not to damage adjacent concrete or bars. After the hole is drilled, remove all loose material by using a wire brush to free dust from the side of the hole and then vacuum to remove material and dust. Follow the manufacturer's directions for mixing, application and curing. The tools, materials, labor and incidentals necessary to complete the work shall be included other items of work.

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.

CRUSHED ROCK BASE: Crushed Rock shall be provided below the R.C.B. as required. The portion below the R.C.B. shall consist of 6 inch crushed rock (ASTM 67). This material is included in the bid item "Precast 8'x3' R.C.B." Additional foundation support due to soil conditions is estimated to average an additional 2' below the crushed rock base and will be bid per cubic yard and utilized with the field engineers approval. Additional excavation for this work will be considered subsidiary.

REINFORCING STEEL (Pre-Cast): 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 $1\frac{1}{2}$ " minimum unless otherwise noted.

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

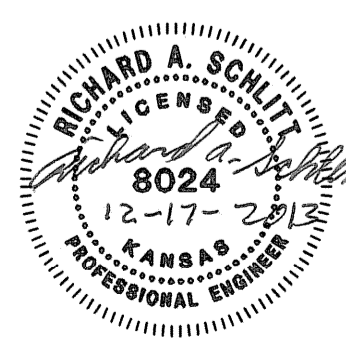
Reinforced Concrete Transition
See Sheet No. 35

*** SUMMARY OF QUANTITIES**

Item	Quantity	Unit
Removal of Existing Structure	4.65	C.Y.
Reinforcing Steel (Grade 60) (Epoxy Coated)	965	Lbs
Concrete	14.44	C.Y.
Precast 8'X3' R.C.B.	830.57	L.F.
Crushed Rock Base	220	C.Y.
** Crushed Rock Base	880	C.Y.

* For Information Only
 ** Bid Item

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GENERAL NOTES AND LAYOUT

CARY JANZEN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 472-84607

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Designed by	MLB	Job No.	12568	SH. 30 of 65
Drawn by	WLL	Date	September 2013	