Construction joint key not shown for clarity. See standard plans for details.

Granular backfill shall be in accordance with Sec 206.

If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

If any part of the barrel is exposed, the roadway fill shall be warped to clarity, see standard plans for details.

Dimensions are based on end units. Fill heights are measured from the top of top slab to the top of earth fill or roadway.

General Notes:
- Design Specifications: Design Unit Stresses
- Design Loading: Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)
- Design Unit Stresses: Class A (Grade 60) fy = 60,000 psi

Design Loading:
- Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Unit Stresses:
- Class A (Grade 60) fy = 60,000 psi

Plan of Layout Dimensions

General Elevation A-A

Location Sketch

Details A

Estimated Quantities

<table>
<thead>
<tr>
<th>Description</th>
<th>Cu. Yard</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforcing Steel (Concrete Box)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hydrologic Data

<table>
<thead>
<tr>
<th>Description</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Base Flood (100-year)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Flood Discharge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Flood Elevation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Flood Discharge</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Roadway Overlapping

Overlapping Flood Frequency (years) =

Estimated Backwater = __ ft

Base Flood Elevation = _____

Design Flood (D.F.) Elevation = _____

Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Loading:

Design Unit Stresses:
Class A (Grade 60) fy = 60,000 psi

Standard Plans:

Design Loading:

Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Unit Stresses:
Class A (Grade 60) fy = 60,000 psi

Standard Plans:

703-5, 703-6, 703-7, 703-8

MISCELLANEOUS:

Hazardous Construction personnel will include the type of box culvert constructed.

Concrete Box used:

Normal Concrete Box used

When alternate precast concrete box sections are used, the minimum distance from inside face of headwall to precast sections shall be 3 feet.

Reinforcement and dimensions for wings and headwalls shall be in accordance with Missouri Standard Spec.

Channel bottom shall be graded within the right of way for transition of channel bed to culvert openings. Channel sides shall be kept to match culvert openings. (Roadway Item)

Traffic handling:

Traffic shall be maintained on structure to be closed during construction. See roadway plans for traffic control.

B.W.
**Standard Drawing Guidance**

- Do not show in plans. Turn off the Standard Drawing Guidance when deselected or show all details in Standard Drawing Guidance.

- Some details have been grouped together to allow easy substitution with others. The grouped details are in blue, black, red, and yellow.

- Use the Standard Plans to select details for the appropriate design.

- Use the standard plans to select details for the appropriate design.

- Supplemental Reinforcement Table (Nonstandard Culverts Only)

- Supplemental Pipe Inlet Details

- Replace details for multiple design fill heights with those shown on Standard Plan 703.67.

- Fill Heights

- Partial Removal of Culvert-Bridge Concrete

- Supplemental Reinforcement Table (Nonstandard Culverts Only)

- PLAN OF TRANSVERSE JOINTS STAGE CONSTRUCTION

- Insert STD 703.60 when pipe inlets are required. Don't leave blank rows but leave space for filling in.

- Add alternate grouped details to the alternate grouped details table.

- Remove blank rows. End units may have a lane designation after Ë Culvert = Design Fill Height = ft.

- Supplemental Pipe Inlet Details

- Supplemental Reinforcement Table (Nonstandard Culverts Only)

- PLAN OF LAYOUT DIMENSIONS

- PLAN OF TRANSVERSE JOINTS STAGE CONSTRUCTION

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