

## Uses

Precast box sections are recommended for installations where circular concrete pipe cannot provide adequate flow capacity, and as a superior substitute for cast-in-place box culverts, long span metal arches, short bridges and multi-barrel circular culverts or drains.

## Sizes

Precast box sections are normally available in spans of 3 feet through 12 feet, with a variety of rises. Spans up to 20 feet are available in some markets.

## Applications

Precast box sections can be used for the following:

- highway culverts
- railroad culverts
- short span highway bridges
- storm drains
- livestock, pedestrian or golf cart undercrossing
- utility tunnels
- underground stormwater retention structures
- groundwater recharge systems
- to replace existing open channels or ditches, and enable land to be used productively
- jacked or tunneled installations.

## Joints

Precast box sections are produced with tongue and groove joints for packing with mastic joint compound, pre-formed mastic or mortar.

## Linings / Coatings

A variety of linings and coatings is available where project conditions dictate their use.

## Applicable Specifications

The following specification applies to precast concrete box sections:

- ASTM C1433 - Precast Reinforced Concrete Box Section for Culverts, Storm Drains and Sewers.
- State DOT's

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