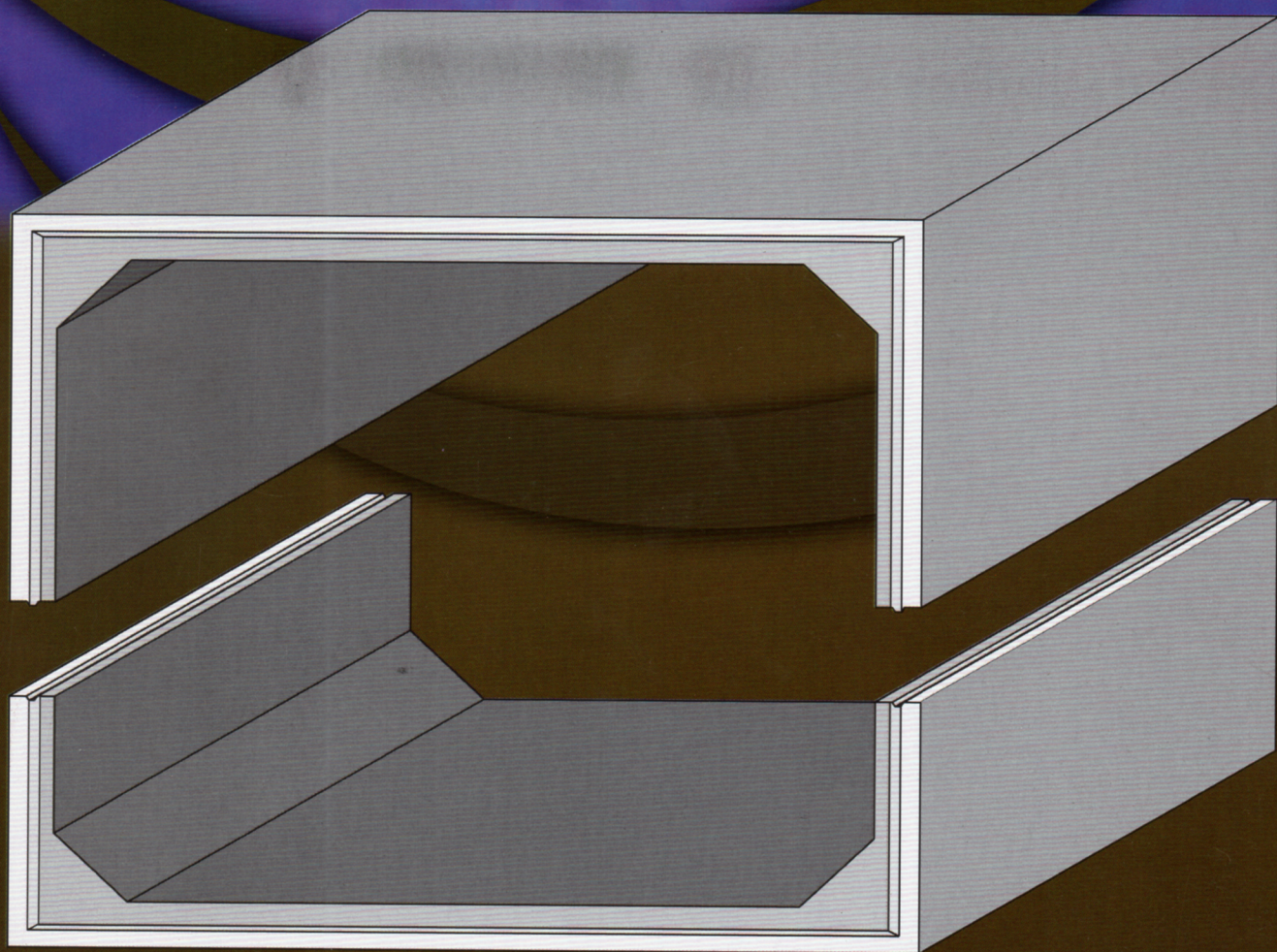


PRECAST BOX CULVERTS



Storm Water Management at its Best

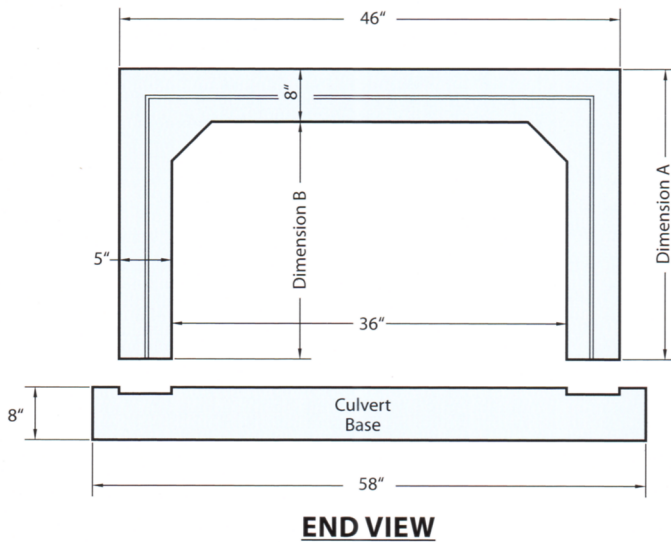
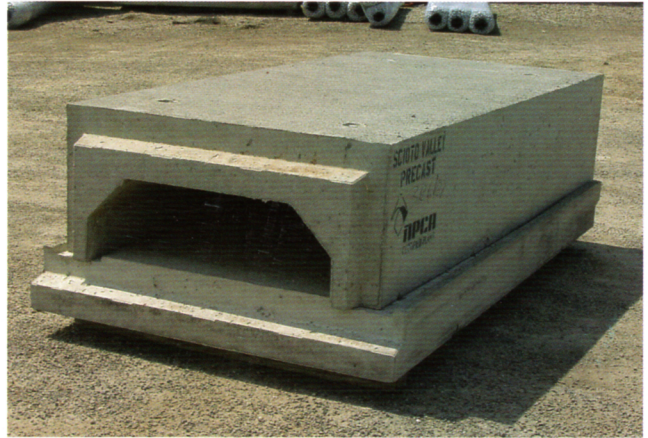
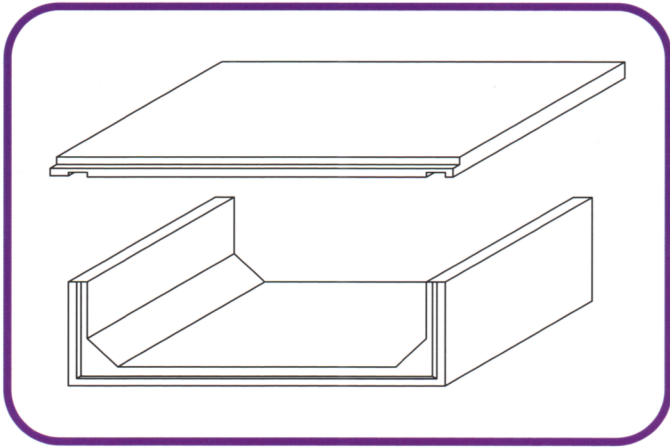
SCIOTO VALLEY PRECAST

American Made Products From A Family Owned Company

Phone: 740-663-2659 Fax: 740-663-2017

Web: www.sciotovalleyprecast.com

3 FOOT 3 SIDED BOX CULVERTS



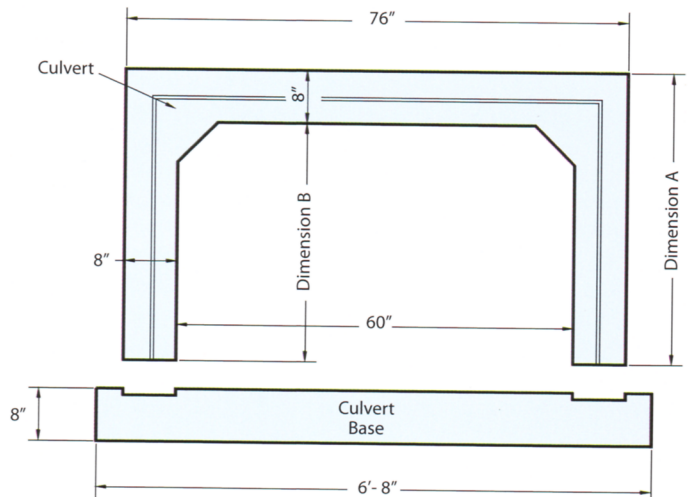
Culvert Sizes

Size	Dimen "A"	Dimen "B"
3 x 1	20"	12"
3 x 2	32"	24"
3 x 3	44"	36"

The culverts lay 8' - 0" in length.

5 FOOT 3 SIDED BOX CULVERTS

Our Precast blocks are used for wing walls to prevent erosion of your embankments. They are available with 45 degree turnbacks.

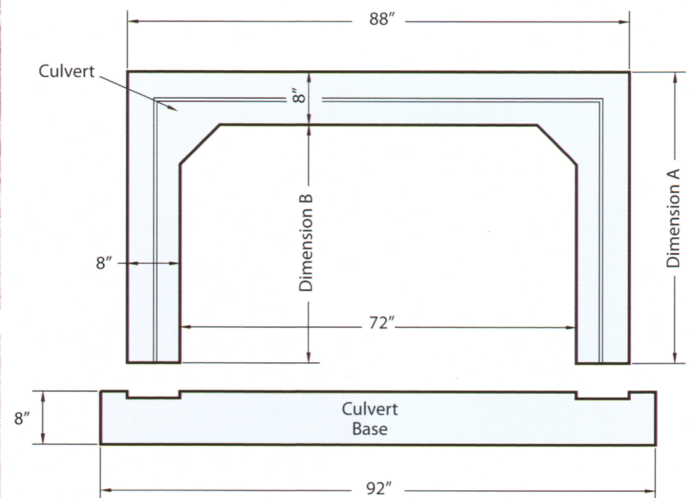


END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
5 x 1	20"	12"
5 x 2	32"	24"
5 x 3	44"	36"
<i>The culverts lay 8' - 0" in length.</i>		

6 FOOT 3 SIDED BOX CULVERTS



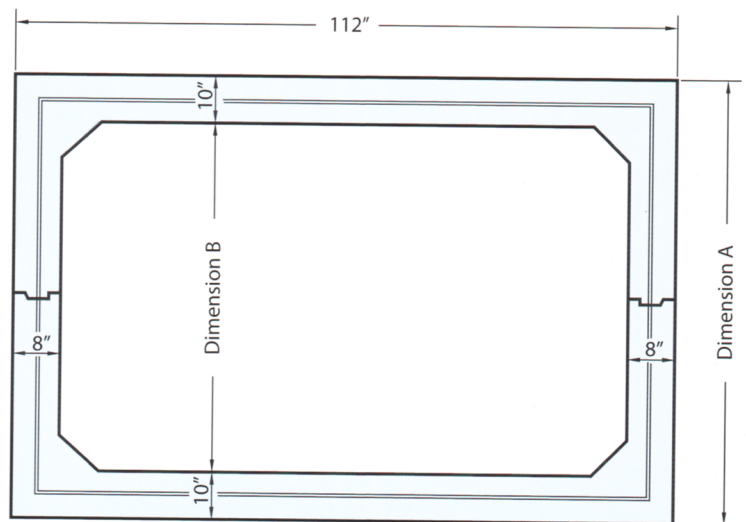
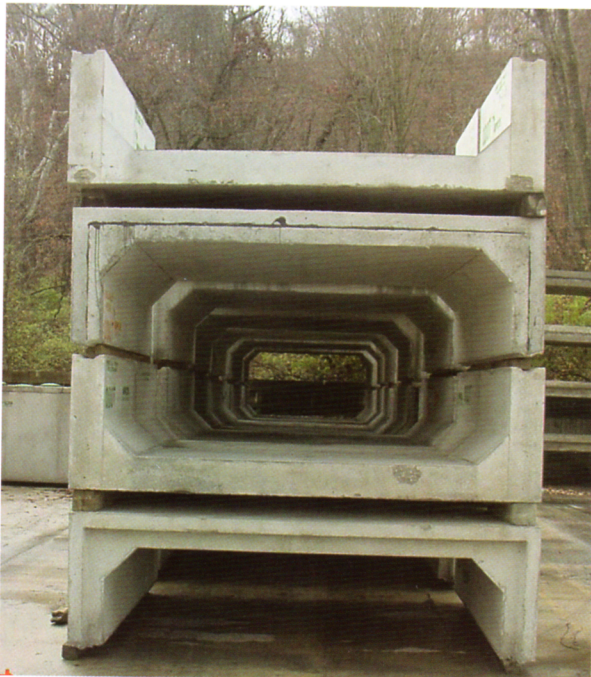
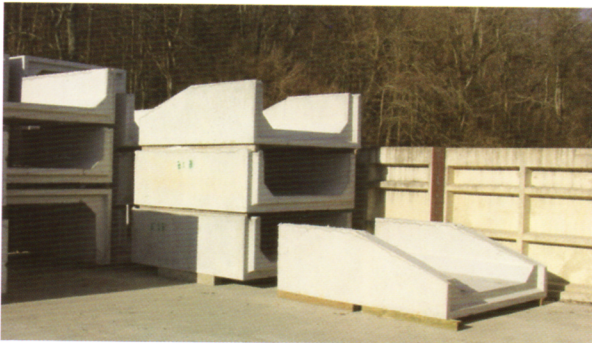
END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
6 x 1	20"	12"
6 x 2	32"	24"
6 x 3	44"	36"
6 x 4	56"	48"

The culverts lay 8' - 0" in length.

8 FOOT SPLIT BOX CULVERTS



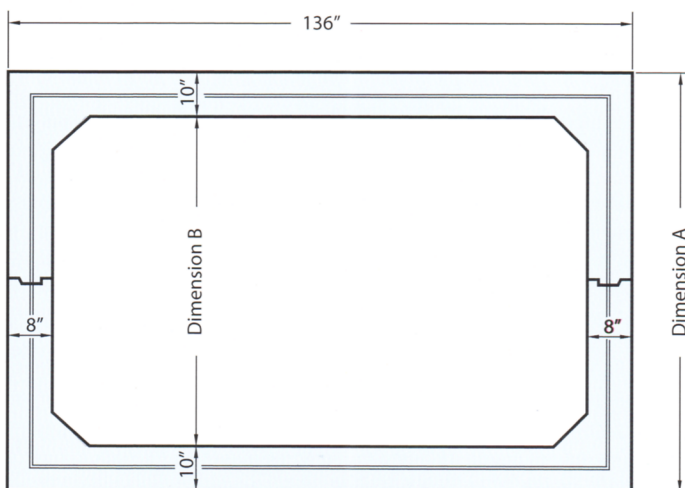
END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
8 x 2	40"	24"
8 x 3	54"	36"
8 x 4	64"	48"
8 x 5	76"	60"
8 x 6	88"	72"
8 x 7	100"	84"
8 x 8	112"	96"

The culverts lay 8' - 0" in length.

10 FOOT SPLIT BOX CULVERTS



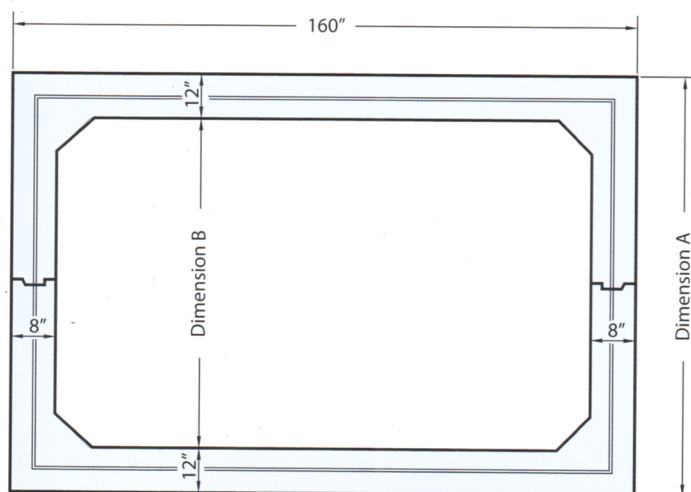
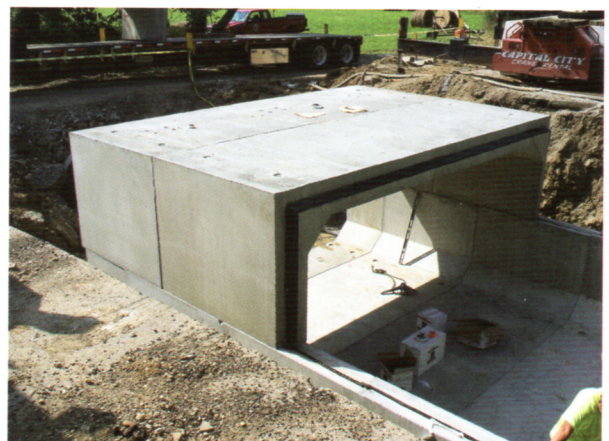
END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
10 x 2	44"	24"
10 x 3	58"	36"
10 x 4	68"	48"
10 x 5	80"	60"
10 x 6	92"	72"
10 x 7	104"	84"
10 x 8	116"	96"

The culverts lay 8' - 0" in length.

12 FOOT SPLIT BOX CULVERTS



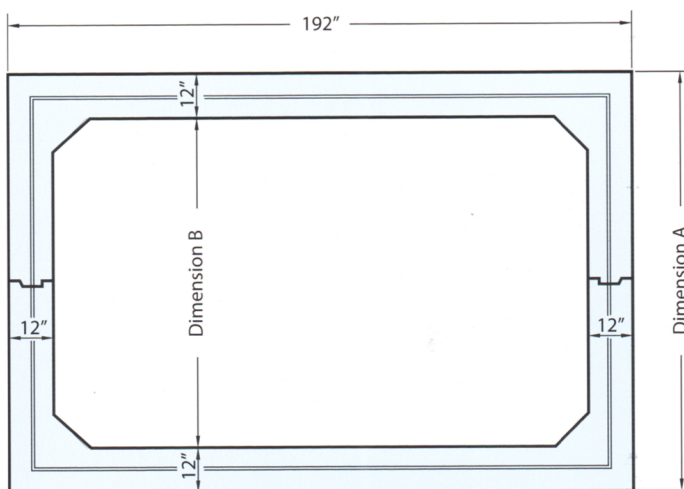
END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
12 x 2	48"	24"
12 x 3	60"	36"
12 x 4	72"	48"
12 x 5	84"	60"
12 x 6	96"	72"
12 x 7	108"	84"
12 x 8	120"	96"

The culverts lay 8' - 0" in length.

14 FOOT SPLIT BOX CULVERTS



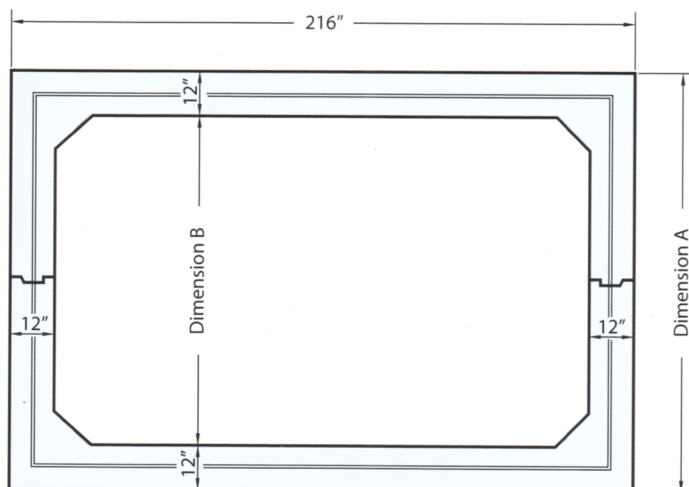
END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
14 x 4	72"	48"
14 x 5	84"	60"
14 x 6	96"	72"
14 x 7	108"	84"
14 x 8	120"	96"

The culverts lay 6' - 0" in length.

16 FOOT SPLIT BOX CULVERTS



END VIEW

Culvert Sizes

Size	Dimen "A"	Dimen "B"
16 x 4	72"	48"
16 x 5	84"	60"
16 x 6	96"	72"
16 x 7	108"	84"
16 x 8	120"	96"

The culverts lay 6' - 0" in length.

BOX CULVERT LAYOUTS AND END CONFIGURATIONS



STANDARD STAGGERED JOINT ASSEMBLY



SLOPED STAGGERED JOINT ASSEMBLY

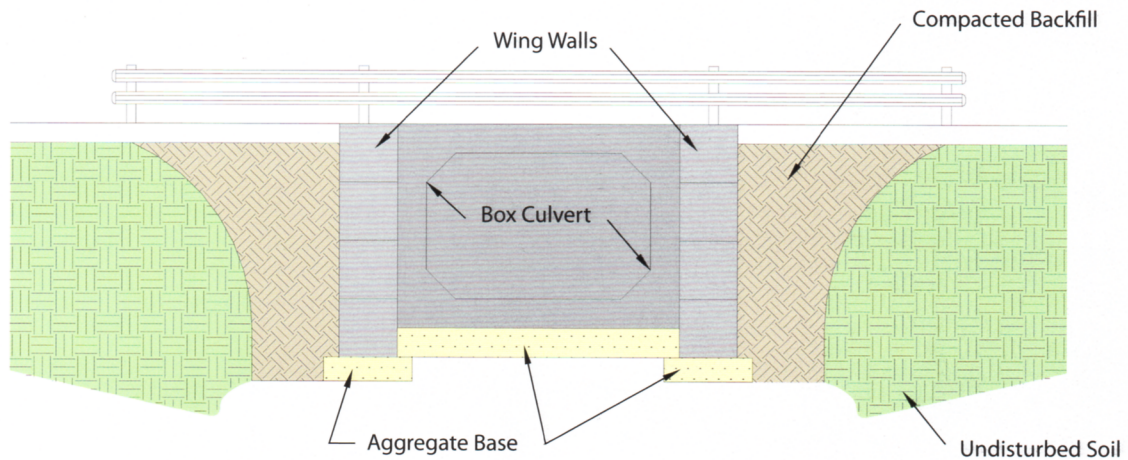
Staggered joints have a tendency to self level and evenly distribute the weight across the joint.



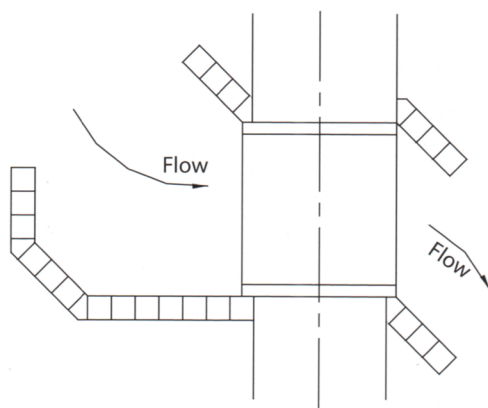
EVEN JOINT ASSEMBLY

Also, these units can be put together like a conventional box culvert joint where the joint extends from the top all the way to the bottom.

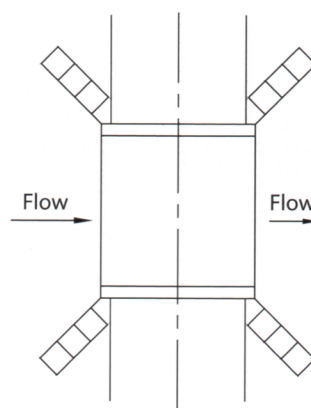
WINGWALL CONFIGURATIONS



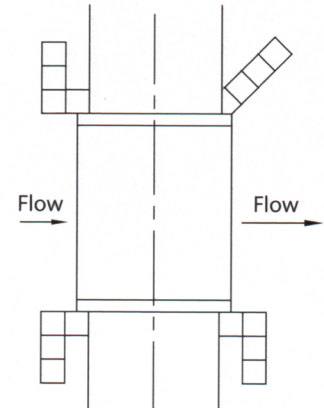
ELEVATION VIEW



EXAMPLE A



EXAMPLE B



EXAMPLE C

Box Culvert Design Notes

1. Box culverts are designed for truck load designations: AASHTO HS25 (LFD Design) or AASHTO HL93 (LRFD Design)
2. Concrete shall obtain a minimum of 5,000 PSI in 28 days.
3. Welded wire reinforcing (WWR) yield strength=65,000 PSI and meet requirements of ASTM A185.
4. Maximum circumferential wire spacing 4 inches.
5. Lifting inserts for handling to be recommended by insert Manufacturer

Additionally, other States Departments of Transportation are already using a design system very similar to this.

The Scioto Valley Precast Company two-piece system is self-positioning and self sealing. Other products need wrestling, shoving and pulling into place by brute force. They can seal imperfectly and also be damaged in the process. We took the simpler approach. Each section is sealed to its mate by gravity and is easily lowered into place, no lateral force required, gravity does the work and holds them tight. Also the joints can be staggered to give more uniform support and strength. By staggering joints, this has a tendency to self-level and evenly distribute the weights across the joint. By using the two-piece box culvert system, a faster and safer way of installation is accomplished. Also a smaller capacity crane can be used thus reducing damages to existing roads and bridges.

Also, these units can be put together like a conventional box culvert joint where the joint extends from the top all the way to the bottom.

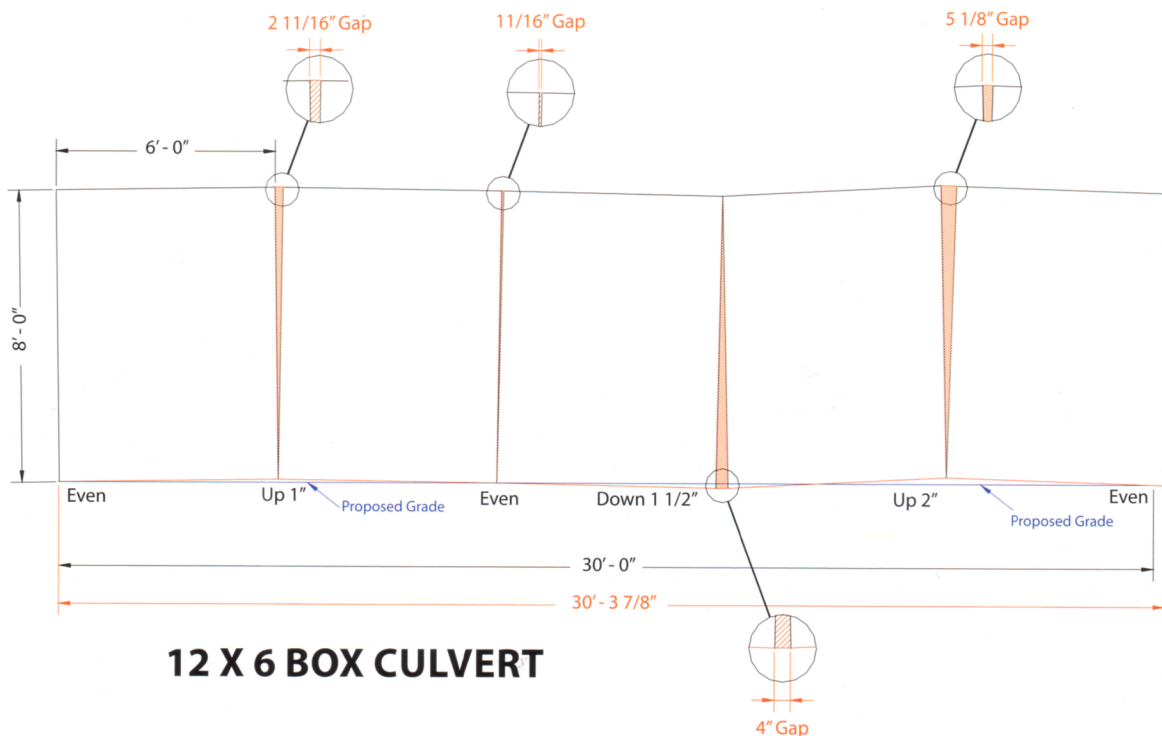
The tongue and groove joints on our precast box sections assure a solid fit using the same type of joint sealant commonly used for underground pipe installations. These include mortar, various joint mastics or rubber like sealants such as the butyl sealants meeting Federal specification SS-S-00210 (210A) and AASHTO M-198.

When you need a low profile section to serve as a storm drain, bridge replacement or tunnel, it is time to specify our rugged precast concrete boxes. Box sections not only solve limited cover and limited width problems, their strength makes them ideal for use as a temporary or permanent bridge replacement. In very narrow right-of-way applications, box sections enable crews and equipment to work off the top surface as soon as the boxes are in place. This feature can, in some cases, also reduce the costs of right-of-ways.

Scioto Valley Precast Company makes a variety of two piece box culvert sizes. Our 3', 5', 6', 8', 10' and 12' boxes are produced in 8'-0" lengths; our 14' and 16' boxes are produced in 6'-0" lengths. These two piece box culverts are produced in these lengths to reduce weights in shipping and handling at the job site.

Design loads are available from 0' coverage to 14' of earth cover. Special designs such as airport and railroad loadings are also available. In addition the two-piece box culvert can be made so that the top only can be removed thus allowing utility companies to install them as tunnels or trenches for the installation of cable, conduits, water, gas, steam pipes, etc.

RESULTS FROM UNEVEN BASE



Scioto Valley Precast • American Made Products from a Family Owned Company
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