

Standard Flared End Sections

Easily installed, easily maintained culvert end treatments

CONTECH End Sections for corrugated metal pipe provide a practical, economical and hydraulically superior method of finishing a variety of culvert materials.

The lightweight, flexible metal construction of CONTECH End Sections creates an attractive, durable, and erosion-preventing treatment for all sizes of culvert inlets and outlets. They can be used with corrugated metal pipe having either annular or helical corrugations, and even can be used with reinforced concrete and plastic pipes. End sections can be salvaged when lengthening or relocating the culvert.

Standard end sections are fabricated from pregalvanized steel. For added corrosion resistance, aluminum end sections are available in smaller sizes.

Better hydraulics

Flow characteristics are greatly improved by the exacting design of CONTECH End Sections. Scour and sedimentation conditions are greatly improved, and headwater depth can be better controlled. Culverts aligned with the stream flow and finished with CONTECH End Sections generally require no additional hydraulic controls.

Improved appearance

CONTECH End Sections present a clean effect that harmonizes with surroundings. The tapered sides of an end section merge with slope design to improve roadside appearance. Unsightly weed growth and debris collection at the culvert end are greatly reduced.

Economical installation

Lightweight equipment and simple crew instructions result in smooth and easy installation of CONTECH End Sections.

End sections are easily joined to culvert barrels, forming a continuous, one-piece structure. For easiest installation, end sections should be installed at the same time as the culvert. Installation

is completed by tamping soil around the end section.

Low maintenance

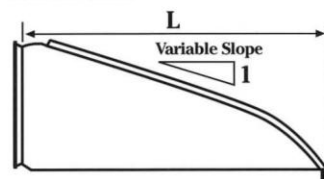
CONTECH End Sections reduce maintenance expense because their tapered design promotes easier mowing and snow removal. There is no obstruction to hamper weed cutting.

Table 1
End Sections for Round Pipe ($2\frac{2}{3} \times 1\frac{1}{2}$, 3×1 and 5×1)

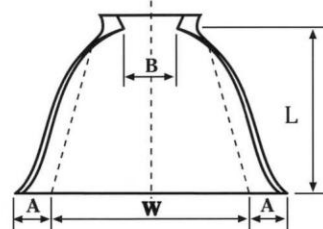
| Pipe Diameter (Inches) | Gage | Approximate Dimensions, Inches ⁽⁷⁾ | | | | | W (Max. Width) (Inches) | Approx. Slope ⁽⁶⁾ |
|------------------------|-------|---|-------------------|-------------------|-------------------|--------------------|-------------------------|------------------------------|
| | | A (Min.) (Inches) | B (Max.) (Inches) | H (Min.) (Inches) | F (Min.) (Inches) | L (+/-2") (Inches) | | |
| 12 | 16 | 5 | 7 | 6 | 22 | 21 | 44 | 2-1/4 |
| 15 | 16 | 6 | 8 | 6 | 28 | 26 | 52 | 2-1/4 |
| 18 | 16 | 7 | 10 | 6 | 34 | 31 | 58 | 2-1/8 |
| 21 | 16 | 8 | 12 | 6 | 40 | 36 | 66 | 2-1/8 |
| 24 | 16 | 9 | 13 | 6 | 46 | 41 | 72 | 2-1/8 |
| 30 | 14 | 11 | 16 | 8 | 55 | 51 | 88 | 2-1/8 |
| 36 | 14 | 13 | 19 | 9 | 70 | 60 | 105 | 2 |
| 42 | 12 | 15 | 25 | 10 | 82 | 69 | 122 | 2-1/8 |
| 48 | 12 | 17 | 29 | 12 | 88 | 78 | 131 | 2 |
| 54 | 12 | 17 | 33 | 12 | 100 | 84 | 143 | 2 |
| 60 | 12/10 | 17 | 36 | 12 | 112 | 87 | 157 | 1-7/8 |
| 66 | 12/10 | 17 | 39 | 12 | 118 | 87 | 162 | 1-5/8 |
| 72 | 12/10 | 17 | 44 | 12 | 120 | 87 | 169 | 1-1/2 |
| 78 | 12/10 | 17 | 48 | 12 | 130 | 87 | 178 | 1-3/8 |
| 84 | 12/10 | 17 | 52 | 12 | 136 | 87 | 184 | 1-1/3 |

Notes for all end sections:

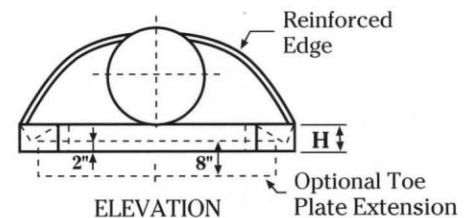
- All three-piece bodies to have 12-gage sides and 10-gage center panels. Multiple panel bodies to have lap seams which are to be tightly joined by galvanized rivets or bolts.
- For 60" through 84" sizes, reinforced edges are supplemented with stiffener angles. The angles are attached by galvanized nuts and bolts. For the 66" and 72" equivalent round pipe-arch sizes, reinforced edges are supplemented by angles. The angles are attached by galvanized nuts and bolts.
- Angle reinforcements are placed under the center panel seams on the 66" and 72" equivalent round pipe-arch sizes.
- Toe plate is available as an accessory, when specified on the order, and will be same gage as the end section.
- Stiffener angles, angle reinforcement, and toe plates are the same base metal as end section body.
- End sections with 6:1 and 4:1 slopes are available in 12" through 24" diameters.
- Actual dimensions may vary slightly.



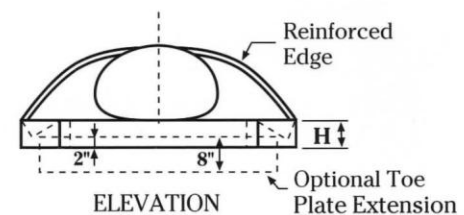
TYPICAL CROSS SECTION



PLAN



ELEVATION



ELEVATION

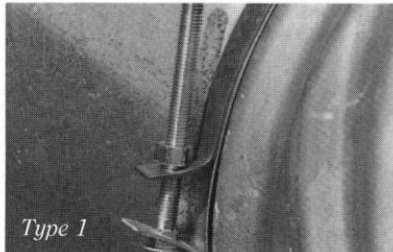
Table 2
End Sections for Pipe-Arch ($2\frac{2}{3} \times 1\frac{1}{2}$)

| Span/ Rise | Equiv. Round (Inches) | Gage | Approximate Dimensions, Inches ⁽⁷⁾ | | | | | W (Max. Width) (Inches) | Approx. Slope ⁽⁶⁾ (6) |
|---------------|-----------------------------|------|---|----------------------|----------------------|----------------------|-----------------------|-------------------------------|--|
| | | | A (Min.) (Inches) | B (Max.) (Inches) | H (Min.) (Inches) | F (Min.) (Inches) | L (+/-2") (Inches) | | |
| 17" x 13" | 15 | 16 | 5 | 9 | 6 | 28 | 20 | 52 | 2-1/8 |
| 21" x 15" | 18 | 16 | 6 | 11 | 6 | 34 | 24 | 58 | 2 |
| 24" x 18" | 21 | 16 | 7 | 12 | 6 | 40 | 28 | 58 | 2-1/8 |
| 28" x 20" | 24 | 16 | 7 | 16 | 6 | 46 | 32 | 66 | 2 |
| 35" x 24" | 30 | 14 | 9 | 16 | 6 | 58 | 39 | 72 | 1-7/8 |
| 42" x 29" | 36 | 14 | 11 | 18 | 7 | 73 | 46 | 88 | 1-7/8 |
| 49" x 33" | 42 | 12 | 12 | 21 | 9 | 82 | 53 | 105 | 1-3/4 |
| 57" x 38" | 48 | 12 | 16 | 26 | 12 | 88 | 62 | 122 | 1-7/8 |
| 64" x 43" | 54 | 12 | 17 | 30 | 12 | 100 | 69 | 131 | 1-7/8 |
| 71" x 47" | 60 | 12 | 17 | 36 | 12 | 112 | 77 | 143 | 1-7/8 |
| 77" x 52" | 66 | 12 | 17 | 36 | 12 | 124 | 77 | 157 | 1-5/8 |
| 83" x 57" | 72 | 12 | 17 | 44 | 12 | 130 | 77 | 162 | 1-1/2 |

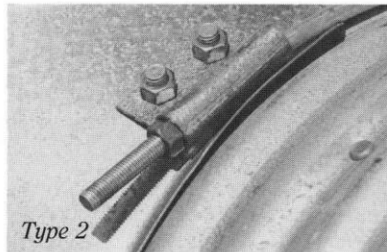
Table 3
End Sections for Pipe-Arch (3 x 1 and 5 x 1)

| Span/ Rise | Equiv. Round (Inches) | Gage | Approximate Dimensions, Inches ⁽⁷⁾ | | | | | W (Max. Width) (Inches) | Approx. Slope ⁽⁶⁾ (6) |
|---------------|-----------------------------|------|---|----------------------|----------------------|----------------------|-----------------------|-------------------------------|--|
| | | | A (Min.) (Inches) | B (Max.) (Inches) | H (Min.) (Inches) | F (Min.) (Inches) | L (+/-2") (Inches) | | |
| 53" x 41" | 48 | 12 | 17 | 26 | 12 | 88 | 63 | 130 | 1-3/4 |
| 60" x 46" | 54 | 12 | 17 | 36 | 12 | 100 | 70 | 142 | 1-7/8 |
| 66" x 51" | 60 | 12 | 17 | 36 | 12 | 112 | 77 | 156 | 1-3/4 |
| 73" x 55" | 66 | 12 | 17 | 36 | 12 | 124 | 77 | 168 | 1-1/2 |
| 81" x 59" | 72 | 12 | 17 | 44 | 12 | 136 | 77 | 179 | 1-5/8 |
| 87" x 63" | 78 | 12 | 17 | 44 | 12 | 136 | 77 | 186 | 1-1/2 |
| 95" x 67" | 84 | 12 | 17 | 44 | 12 | 160 | 87 | 210 | 1-1/2 |
| 103" x 71" | 90 | 12 | 17 | 44 | 12 | 172 | 87 | 222 | 1-1/3 |
| 112" x 75" | 96 | 12 | 17 | 44 | 12 | 172 | 87 | 226 | 1-1/4 |

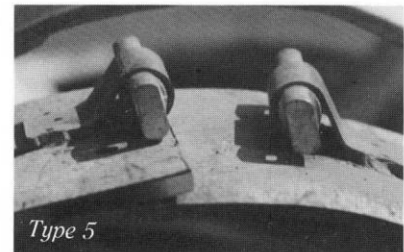
CONTECH End Sections attach to corrugated pipe culvert with one of these three general types of connections.



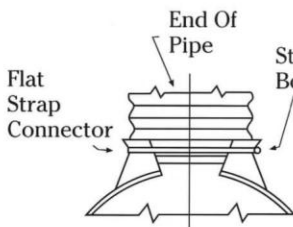
Recommended for 12" through 24" diameter round pipe and equivalent size pipe-arches.



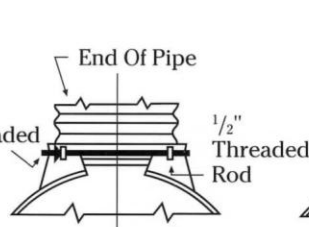
Recommended for 30" diameter and larger round pipe and equivalent size pipe-arches.



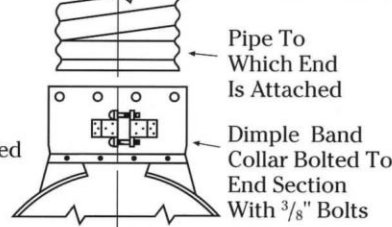
Available for all round and equivalent size pipe-arches. — Recommended for attachment to field cut ends of Helical pipe.



Type 1



Type 2



Type 5

Provided by: Coastal Culvert & Supply, Inc.

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