

CORRUGATED STEEL PIPE - ARCH. Table with columns: PIPE - ARCH DIMENSIONS (SPAN - RISE, EQUIVALENT PIPE DIAMETER, MINIMUM CORNER RADIUS), MINIMUM SHEET THICKNESS (GAUGE), FILL HEIGHT (MINIMUM, MAXIMUM). Includes sections for 2 2/3" X 1/2" CORRUGATIONS and 3" X 1" AND 5" X 1" CORRUGATIONS.

CORRUGATED ALUMINUM PIPE - ARCH. Table with columns: PIPE - ARCH DIMENSIONS (SPAN - RISE, EQUIVALENT PIPE DIAMETER, MINIMUM CORNER RADIUS), MINIMUM SHEET THICKNESS (GAUGE), FILL HEIGHT (MINIMUM, MAXIMUM). Includes sections for 2 2/3" X 1/2" CORRUGATIONS and 3" X 1" CORRUGATIONS.

FOOTNOTES
1 3" X 1" CORRUGATION ONLY
2 ALUMINUM BOLTS / STEEL BOLTS. WHERE A SINGLE NUMBER IS SHOWN IN THIS COLUMN, EITHER ALUMINUM OR STEEL BOLTS MAY BE USED.

STRUCTURAL PLATE STEEL PIPE - ARCHES. Table with columns: PIPE - ARCH DIMENSIONS (SPAN, RISE, CORNER RADIUS), MINIMUM GAUGE REQUIRED, FILL HEIGHT (MINIMUM, MAXIMUM). Includes section for 6" X 2" CORRUGATIONS.

STRUCTURAL PLATE ALUMINUM PIPE - ARCHES. Table with columns: PIPE - ARCH DIMENSIONS (SPAN, RISE, CORNER RADIUS), MINIMUM GAUGE REQUIRED, FILL HEIGHT (MINIMUM, MAXIMUM). Includes section for 9" X 2 1/2" CORRUGATIONS.

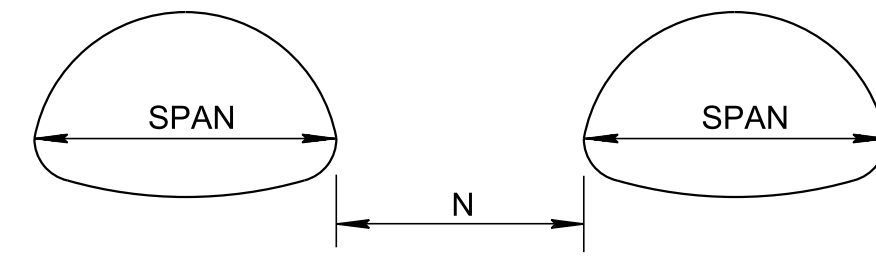
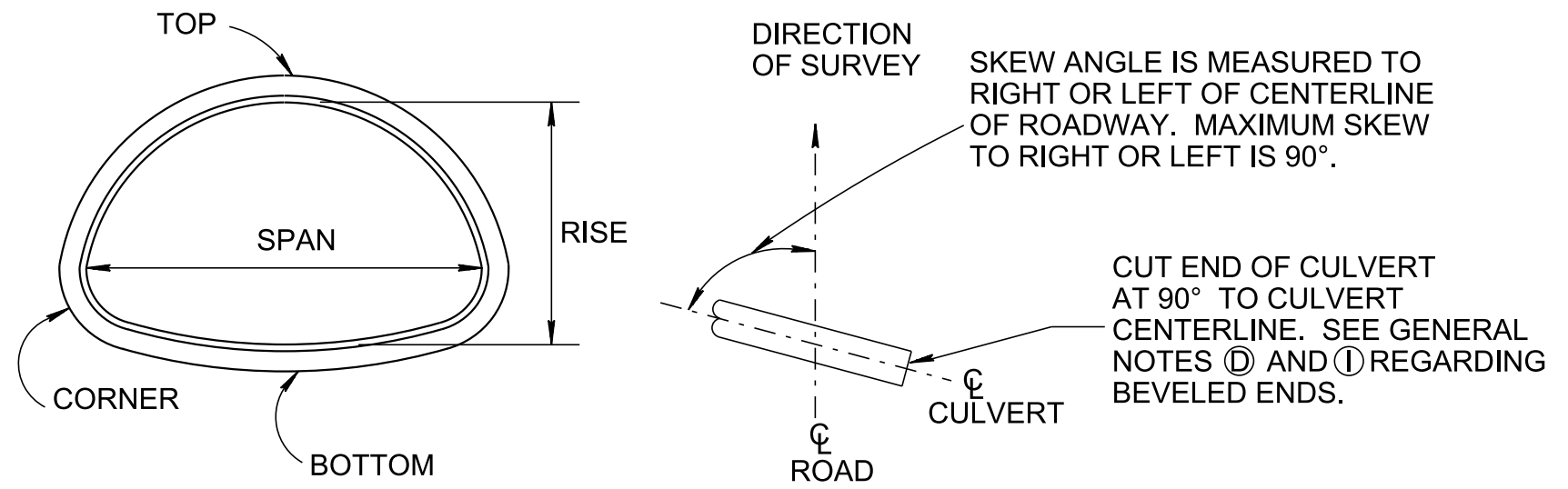


Table: SPAN vs MINIMUM SPACE (N) BETWEEN PIPE - ARCHES WITH CLASS "B" OR "C" BEDDING. Values range from 12" to 48" depending on span.

WHEN CLASS "A" BEDDING IS USED, A DETAIL SHALL BE SHOWN ON PLANS FOR MINIMUM SPACE BETWEEN PIPE - ARCHES.



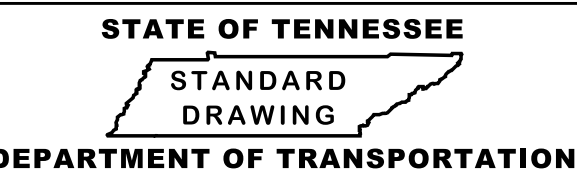
PIPE - ARCH CULVERT DETAIL

SKEW DETAIL FOR PIPE - ARCH CULVERTS

GENERAL NOTES

- (A) PIPE SHALL CONFORM TO SECTION 915 OF THE STANDARD SPECIFICATIONS.
(B) ALL CORRUGATED METAL PIPE - ARCHES SHALL BE INSTALLED ACCORDING TO BEDDING STANDARD NO. D-PB-1.
(C) THE HEIGHTS OF COVER SHOWN IN THE TABLES ARE FOR FINISHED CONSTRUCTION.
(D) LENGTH OF PIPE SHALL BE IN INCREMENTS OF EVEN TWO (2) FEET FOR THE PURPOSE OF ESTIMATING PLANS QUANTITIES.
(E) POLYMERIC COATED PIPE - ARCH, WHEN REQUIRED, SHALL CONFORM TO SECTION 915.03 OF THE STANDARD SPECIFICATIONS.
(F) VARIATION OF MATERIALS OR CORRUGATION WILL NOT BE PERMITTED IN ANY LINE OF PIPE.
(G) PLATES FOR STEEL STRUCTURAL PLATE STRUCTURES ARE STANDARD 6" X 2" CORRUGATION WITH FOUR (4) BOLTS PER FOOT IN EACH LONGITUDINAL SEAM (UNLESS OTHERWISE SHOWN).
(H) PLATES FOR ALUMINUM STRUCTURAL PLATE STRUCTURES ARE STANDARD 9" X 21#2" CORRUGATION WITH FIVE AND ONE - THIRD (51#3) BOLTS PER FOOT IN EACH LONGITUDINAL SEAM (UNLESS OTHERWISE SHOWN).
(I) PIPE - ARCH CULVERTS WITH SPAN LESS THAN 57" ARE NOT TO HAVE THEIR ENDS BEVELED.
(J) ANY EVIDENCE OF WRINKLING OR BUCKLING IN THE CORRUGATED METAL PIPE - ARCHES SHALL BE CAUSE FOR REJECTION OF THE PIPE ESPECIALLY IF IT IS IN THE CORNER RADII.
(K) TYPE I AND TYPE II PIPE WITH HELICAL CORRUGATIONS SHALL BE REROLLED TO FORM ANNULAR (CIRCUMFERENTIAL) ENDS WHERE THE CULVERT IS TO BE JOINED.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED



FERROUS AND ALUMINUM CORRUGATED METAL PIPE ARCHES

7/23/2019 9:37:23 AM \\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Standard Drawings Folder\Working Folder for Eugene\DRAWING\110 PIPE CULVERTS AND ENDWALLS\110.01 Culverts and Flumes\DPG4-20190628.dgn