

NON-CIRCULAR - 15" PIPE - 60" PIPE

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2 - 5	6	7	8	9	10
15	22⅔" x ½" CSPA ①	16 GA.					
	22⅔" x ½" CAPA	16 GA.					
18	22⅔" x ½" CSPA ①	16 GA.					
	22⅔" x ½" CAPA	16 GA.					
	SRSA ①	16 GA.					
	SRAA	16 GA.					
	RCHEP ⑫						
21	22⅔" x ½" CSPA ①	16 GA.					
	22⅔" x ½" CAPA	16 GA.					
	SRSA ①	16 GA.					
	SRAA	16 GA.					
24	22⅔" x ½" CSPA ①	16 GA.					
	22⅔" x ½" CAPA	14 GA.					
	SRSA ①	16 GA.					
	SRAA	14 GA.					
	RCHEP ⑫						
		2 - 5	6	7	8	9	10

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2 - 5	6	7	8	9	10
30	22⅔" x ½" CSPA ①	16 GA.					
	22⅔" x ½" CAPA	14 GA.					
	SRSA ①	16 GA.					
	SRAA	14 GA.					
	RCHEP ⑫						
36	22⅔" x ½" CSPA ①	14 GA.					
	22⅔" x ½" CAPA	12 GA.					
	SRSA ①	14 GA.					
		12 GA.					
	RCHEP ⑫						
42	22⅔" x ½" CSPA ①	14 GA.					
	22⅔" x ½" CAPA	12 GA.					
	SRSA ①	14 GA.					
	SRAA	12 GA.					
	RCHEP ⑫						
		2 - 5	6	7	8	9	10

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2 - 5	6	7	8	9	10
48	22⅔" x ½" CSPA ①	12 GA.					
	22⅔" x ½" CAPA	10 GA.					
	SRSA ①	14 GA.					
	SRAA	12 GA.					
	RCHEP ⑫						
54	22⅔" x ½" CSPA ①	12 GA.					
	③ CSPA ①	14 GA.					
	22⅔" x ½" CAPA	10 GA.					
	3"x1" CAPA	14 GA.					
	SRSA ①	14 GA.					
60	SRAA	12 GA.					
	RCHEP ⑫						
	22⅔" x ½" CSPA ①	10 GA.					
	③ CSPA ①	14 GA.					
	22⅔" x ½" CAPA	8 GA.					
		2 - 5	6	7	8	9	10

~ NOTES ~

- ① GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.
2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
- ③ 3" x 1" OR 5" x 1"
4. CSPA, CAPA,SRSA AND SRAA ARE SHOWN IN GAGE.
5. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
6. MINIMUM COVER HEIGHTS FOR PIPE SHALL BE 2 FEET. GAGE OF PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL BE THAT SHOWN FOR COVER HEIGHTS OF 10 FEET. (SEE STANDARD SPECIFICATIONS FOR BACKFILL)
7. MAXIMUM COVER HEIGHT FOR NON-CIRCULAR PIPE IS 10 FEET. NON-CIRCULAR PIPE SHALL ONLY BE USED WHERE COVER LIMITATIONS EXIST.
8. GAGE OF ENTRANCE PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL MEET THE FOLLOWING REQUIREMENTS:

a. GAGE OF CAPA SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLE.

b. GAGE OF CSPA SHALL BE THAT SHOWN IN TABLE.

- ⑨ ENTRANCE PIPE GREATER THAN 30" DIA. SHALL BE CULVERT PIPE.
10. SEE CUR. STD. DWG. RDI-016 FOR NON-CIRCULAR PIPE ALTERNATES.
11. SEE CUR. STD. DWG. RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.
- ⑫ SEE CUR. STD. DWGS. RDI-021 AND RDI-026 FOR RCHEP COVER HEIGHT AND BEDDING REQUIREMENTS.
- USE WITH CUR. STD. DWGS.
RDI-016 RDI-021 RDI-026 RDI-035

LEGEND

- CSPA: CORRUGATED STEEL PIPE ARCH
- CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH
- SRSA: SPIRAL RIB STEEL ARCH
- SRAA: SPIRAL RIB ALUMINUM ARCH
- RCHEP: REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE

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DRAINAGE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



PIPES

CULVERT, ENTRANCE, AND STORM SEWER PIPE TYPES
AND COVER HEIGHTS

STANDARD DRAWING NUMBER
RDI-011-03