

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET				
		2 - 5	6	7	8	9
15	2 2/3" x 1/2" CSPA (1)	16 GA.				
	2 2/3" x 1/2" CAPA	16 GA.				
18	2 2/3" x 1/2" CSPA (1)	16 GA.				
	2 2/3" x 1/2" CAPA	16 GA.				
	SRSA (1)	16 GA.				
	SRAA	16 GA.				
	RCHEP (12)					
21	2 2/3" x 1/2" CSPA (1)	16 GA.				
	2 2/3" x 1/2" CAPA	16 GA.				
	SRSA (1)	16 GA.				
	SRAA	16 GA.				
24	2 2/3" x 1/2" CSPA (1)	16 GA.				
	2 2/3" x 1/2" CAPA	14 GA.				
	SRSA (1)	16 GA.				
	SRAA	14 GA.				
	RCHEP (12)					

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET				
		2 - 5	6	7	8	9
30	2 2/3" x 1/2" CSPA (1)	16 GA.				
	2 2/3" x 1/2" CAPA	14 GA.				
	SRSA (1)	16 GA.				
	SRAA	14 GA.				
	RCHEP (12)					
36	2 2/3" x 1/2" CSPA (1)	14 GA.				
	2 2/3" x 1/2" CAPA	12 GA.				
	SRSA (1)	14 GA.				
	RCHEP (12)					
42	2 2/3" x 1/2" CSPA (1)	14 GA.				
	2 2/3" x 1/2" CAPA	12 GA.				
	SRSA (1)	14 GA.				
	SRAA	12 GA.				
	RCHEP (12)					

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

~ NOTES ~

- 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.
- WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
- 3" x 1" OR 5" x 1"
- CSPA, CAPA, SRSA AND SRAA ARE SHOWN IN GAGE.
- 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.
- 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)
- MAXIMUM COVER HEIGHT FOR NON-CIRCULAR PIPE IS 10 FEET. NON-CIRCULAR PIPE SHALL ONLY BE USED WHERE COVER LIMITATIONS EXIST.
- GAGE OF ENTRANCE PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL MEET THE FOLLOWING REQUIREMENTS:
 - GAGE OF CAPA SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLE.
 - GAGE OF CSPA SHALL BE THAT SHOWN IN TABLE.
- ENTRANCE PIPE GREATER THAN 30" DIA. SHALL BE CULVERT PIPE.
- SEE CUR. STD. DWG. [RDI-016](#) FOR NON-CIRCULAR PIPE ALTERNATES.
- SEE CUR. STD. DWG. [RDI-035](#) FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.
- SEE CUR. STD. DWGS. [RDI-021](#) AND [RDI-026](#) FOR RCHEP COVER HEIGHT AND BEDDING REQUIREMENTS.

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

USE WITH CUR. STD. DWGS.
[RDI-016](#) [RDI-021](#) [RDI-026](#)
[RDI-035](#)

KENTUCKY DEPARTMENT OF HIGHWAYS	
CULVERT, ENTRANCE AND STORM SEWER PIPE TYPES AND COVER HEIGHTS	
STANDARD DRAWING NO. RDI-011-03	
SUBMITTED 	12-01-15
DIRECTOR, BUREAU OF DESIGN	DATE
APPROVED 	12-01-15
STATE HIGHWAY ENGINEER	DATE

NON-CIRCULAR
15" PIPE - 60" PIPE