



NOTES:

ALL REBARS ARE IN METRIC DESIGNATIONS

- ① 2'0" FOR GROOVE END AND 2'7" FOR TONGUE END.
- ② CULVERT TIES AS SHOWN ON STANDARD PLATE 3145.
- ③ 132" SIZE IS A 3 PIECE END SECTION.

SEE STANDARD PLATE 3014 FOR THE FOLLOWING:

- a. SHAPE, JOINT DIMENSIONS, TOLERANCES AND OTHER APPLICABLE REQUIREMENTS.
- b. REINFORCEMENT REQUIREMENTS IN SECTION 1 SHALL CONFORM TO CLASS II-A REINFORCEMENT EXCEPT STIRRUPS NOT REQUIRED. REINFORCEMENT REQUIREMENTS IN SECTION 2 AND 3 SHALL CONFORM TO CLASS II-A CONTINUOUS BASIC REINFORCEMENT ONLY, WITH ADDITIONAL REINFORCEMENT AS SHOWN IN DETAIL A.

TABLE OF REQUIREMENTS

SIZE	RISE	SPAN	T	L	W	X	Y	Z	SECTION 1	SECTION 2	SECTION 3
INCHES									WEIGHT IN POUNDS (APPROX)		
90	72	115-1/2	8-1/2	102-1/4	72	30-1/4	37-7/8	48	19100	3950	
96	78	122-3/8	9	112-1/2	72	40-1/2	39	54	22000	6050	
108	88	138-1/2	10	129-1/2	48	81-1/2	42-3/8	66	23000	15800	
120	96-7/8	154	11	144	48	96	46-7/8	78	27000	24600	
132	106-1/2	168-3/4	10	144	48	96	54-5/8	90	27950	25260	13640

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STATE OF MINNESOTA  
DEPARTMENT OF TRANSPORTATION

SECTIONAL CONCRETE APRON FOR  
REINFORCED CONCRETE PIPE-ARCH

SPECIFICATION  
REFERENCE  
2501

REVISED  
1-28-2000 A.K.J.

STANDARD  
PLATE  
NO.  
3114H