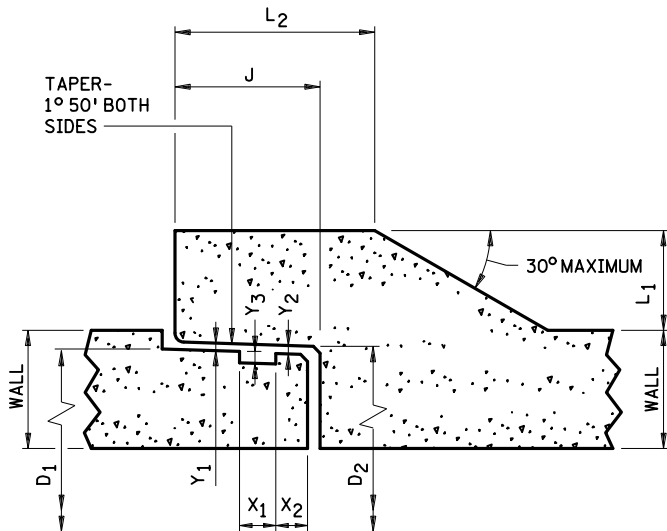
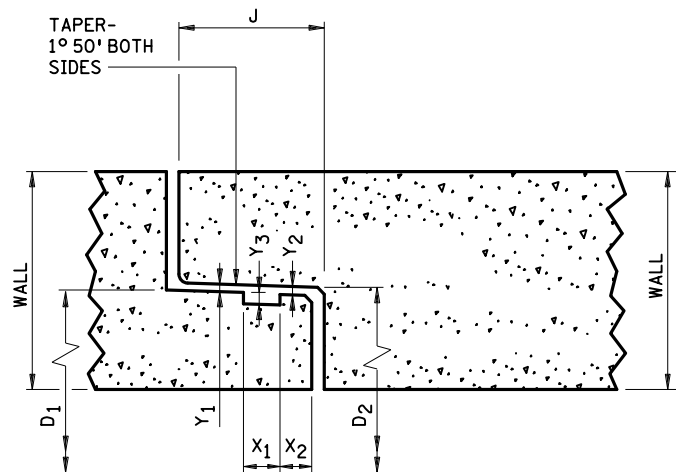


DIAMETER D	LENGTH OF JOINT J	D ₁	D ₂	MINIMUM L ₂	B-WALL L ₁	C-WALL L ₁	X ₁	X ₂	Y ₁	Y ₂	Y ₃
INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES
12	3 ⁵ / ₈	15.223	15.331	5	2	1 ¹ / ₄	1	7 ¹ / ₈	0.062	0.090	0.313
15	3 ⁵ / ₈	18.723	18.831	4 ³ / ₄	2 ³ / ₁₆	1 ⁷ / ₁₆	1	7 ¹ / ₈	0.062	0.090	0.313
18	3 ⁵ / ₈	22.098	22.206	5	2 ³ / ₈	1 ⁵ / ₈	1	7 ¹ / ₈	0.062	0.090	0.313
21	3 ⁷ / ₈	25.600	25.724	5 ¹ / ₄	2 ⁹ / ₁₆	1 ³ / ₁₆	1	7 ¹ / ₈	0.062	0.090	0.313
24	3 ⁷ / ₈	28.975	29.099	5 ¹ / ₂	2 ³ / ₄	2	1	7 ¹ / ₈	0.062	0.090	0.313
27	4	32.476	32.608	5 ¹ / ₂	2 ³ / ₄	2	1	7 ¹ / ₈	0.062	0.090	0.313
30	4	35.976	36.108	5 ¹ / ₂	2 ³ / ₄	2	1	7 ¹ / ₈	0.062	0.090	0.313
33	4 ¹ / ₈	39.476	39.616	5 ³ / ₄	2 ⁷ / ₈	2 ¹ / ₈	1	7 ¹ / ₈	0.062	0.090	0.313
36	4 ¹ / ₈	42.976	43.116	6	3 ¹ / ₈	2 ³ / ₈	1	7 ¹ / ₈	0.062	0.090	0.313
42	4 ⁵ / ₈	50.021	50.183	6 ³ / ₄	3 ³ / ₄	3	1 ³ / ₁₆	1	0.067	0.129	0.376
48	4 ³ / ₄	57.023	57.193	7 ¹ / ₄	4 ¹ / ₈	3 ³ / ₈	1 ³ / ₁₆	1	0.067	0.129	0.376
54	5	63.007	63.192	7 ¹ / ₂	3 ⁵ / ₈	2 ⁷ / ₈	1 ³ / ₁₆	1	0.067	0.129	0.376
60	5	69.007	69.192	7 ¹ / ₂	3 ¹ / ₈	2 ³ / ₈	1 ³ / ₁₆	1	0.067	0.129	0.376
66	5	75.007	75.192	7 ¹ / ₂	2 ³ / ₄	2	1 ³ / ₁₆	1	0.067	0.129	0.376
72	5 ¹ / ₄	79.250	79.400	—	—	—	1 ³ / ₁₆	1 ¹ / ₄	0.093	0.190	0.376
78	5 ¹ / ₄	86.250	86.400	—	—	—	1 ³ / ₁₆	1 ¹ / ₄	0.093	0.190	0.376
84	5 ¹ / ₄	91.500	91.650	—	—	—	1 ³ / ₁₆	1 ¹ / ₄	0.093	0.190	0.376
90	5 ¹ / ₄	97.750	97.900	—	—	—	1 ³ / ₁₆	1 ¹ / ₄	0.093	0.190	0.376
96	5 ¹ / ₄	104.250	104.400	—	—	—	1 ³ / ₁₆	1 ¹ / ₄	0.093	0.190	0.376
108	6 ³ / ₈	117.250	117.400	—	—	—	1 ³ / ₁₆	1 ¹ / ₄	0.130	0.190	0.376



66" PIPE AND SMALLER ①
REINFORCEMENT NOT SHOWN



72" PIPE AND LARGER
REINFORCEMENT NOT SHOWN

NOTES:

SEE STANDARD PLATE 3000 FOR PIPE DESIGN.

THE ENGINEER MAY APPROVE A CHANGE IN THE SIZE OF THE NOTCH AND GASKET. A WRITTEN REQUEST FOR APPROVAL OF SUCH CHANGE IS REQUIRED.

TOLERANCES IN DIMENSIONS:

JOINT DIMENSIONS ARE NOMINAL AND SUBJECT TO REASONABLE MANUFACTURING TOLERANCES. FABRICATE THE TONGUE AND GROOVE SUCH THAT WHEN THE PIPE IS JOINTED WITH THE GASKET IN PLACE A PROPER FIT IS OBTAINED. FINAL ACCEPTANCE OF THE PIPE WILL BE AT THE JOB SITE AFTER EFFECTIVE JOINTING HAS BEEN OBTAINED.

DIMENSIONS SHOWN ARE DESIGN DIMENSIONS, INSPECTION MEASUREMENTS WILL BE MADE TO THE NEAREST 1/8".

FURNISH GASKETS IN ACCORDANCE WITH ASTM C1619 CLASS C.

① SEE SHEET 2 OF 2 FOR OPTIONAL BELL REINFORCEMENT, CLEARANCES, AND NOTES.

APPROVED MARCH 5, 2020

Rom S. Smith
STATE DESIGN ENGINEER

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

GASKET JOINT FOR R.C. PIPE

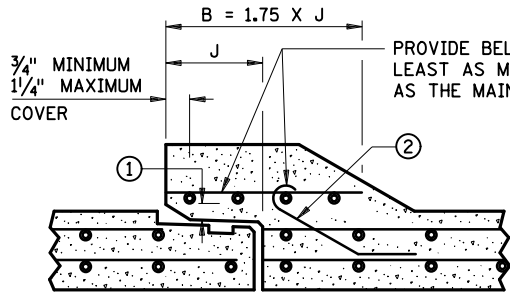
SPECIFICATION
REFERENCE

2501
2503

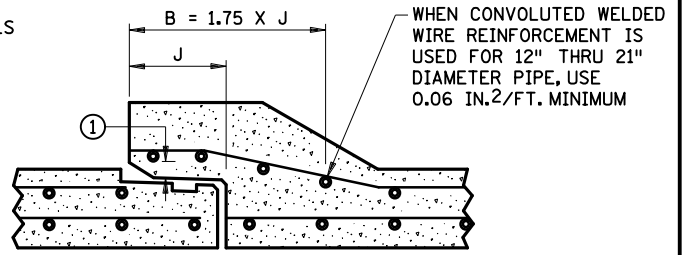
STANDARD
PLATE
NO.

3006H

1 OF 2

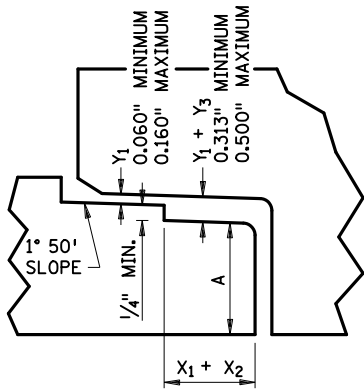


CYLINDRICAL CAGE DETAIL

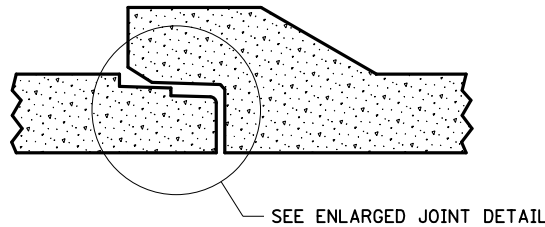


EXPANDED BELL DETAIL

BELL REINFORCEMENT OPTIONS
66" PIPE AND SMALLER



ENLARGED JOINT DETAIL



OPTIONAL TONGUE DETAIL
REINFORCEMENT NOT SHOWN

INT. DIA. PIPE	X ₁ + X ₂	SPIGOT THICKNESS A
12"	1.75"	1.15"
15"		1.50"
18"		1.70"
21"		1.95"
24"		2.15"
27"		2.40"
30"		2.65"
33"		2.90"
36"		3.15"
48"	1.75"	3.15"

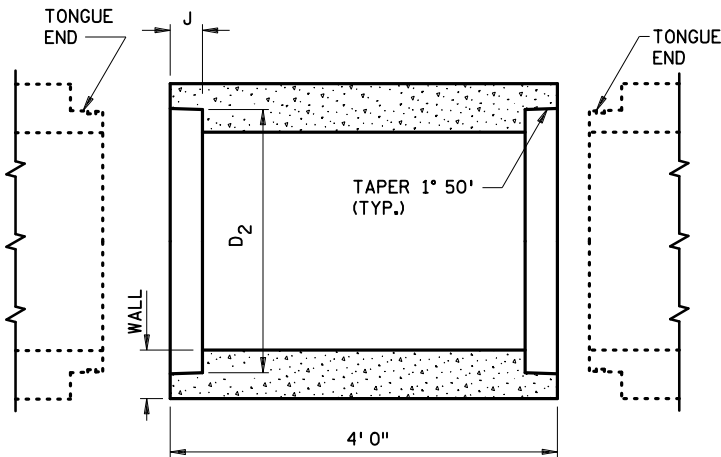
NOTES:

PROVIDE A BELL CAGE AT LEAST AS WIDE AS DIMENSION B.

FOR DOUBLE CAGE PIPE, PROVIDE REINFORCEMENT AT LEAST EQUAL IN AREA TO THAT OF THE OUTSIDE CAGE OR LINE FOR BELLS, AND THE INSIDE CAGE OR LINE FOR SPIGOTS. FOR SINGLE CAGE PIPE, PROVIDE REINFORCEMENT IN THE BELL AT LEAST EQUAL IN AREA TO THAT OF THE CAGE.

SEE SHEET 1 FOR ALL DIMENSIONS OTHER THAN BELL REINFORCEMENT.

- ① LOCATE REINFORCING IN BELL FROM 3/4" TO 1 1/4" FROM INNER FACE OF BELL.
- ② USE A MINIMUM OF THREE NO. 3 HOOK TIES EQUALLY SPACED WITH A MAXIMUM SPACING OF 24".



OPTIONAL TRANSITION PIPE
CONNECT TONGUE END TO TONGUE END

TRANSITION PIPE REINFORCEMENT							
INTERNAL DIAMETER	12"	15"	18"	21"	24"	27"	30"
WALL	4"	4 3/8"	4 7/8"	5 1/4"	5 3/4"	6"	6 1/4"
INSIDE REINFORCEMENT (IN ² / LIN. FT.)	0.08	0.08	0.10	0.12	0.12	0.14	0.18
OUTSIDE REINFORCEMENT (IN ² / LIN. FT.)	—	—	—	0.08	0.08	0.08	0.11

APPROVED MARCH 5, 2020

Rom S
STATE DESIGN ENGINEER

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

GASKET JOINT FOR R.C. PIPE
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