

⊤BARS D

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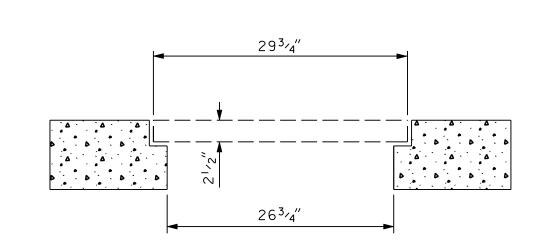
─BARS C

BARS F-BARS F1

6′-0″

SECTION BB - BB





REFERENCE

PROJECT NO

FISCAL

YEAR

SHEET

NO

NEENAH FOUNDRY COMPANY Grate Type L

CATALOG No. R-4999-L9 FURNISHED IN 11/2 OR 3 FOOT INCREMENTS ONLY.

GENERAL NOTES

- 1. REINFORCING STEEL SHALL BE GRADE 60.
- 2. USE CLASS A CONCRETE.
- 3. ALL REINFORCING STEEL SHALL BE 2" CLEARANCE (EACH FACE).
- 4. FIELD CUT REINFORCEMENT IN THE WALLS TO PROVIDE FOR PIPE ENTRANCE, AND IN THE TOP SLAB PROVIDE FOR GRADING GRATE FRAMING.
- 5. BARS PLACED DIAGONALLY AROUND PIPE OPENINGS ARE REQUIRED. BAR CUTOFFS MAY BE USED FOR DIAGONAL BARS.
- 6. BARS A, B, C, & D SHALL BE SPLICED 35 DIAMETERS MINIMUM.
- 7. INSTALLATION OF GRATE AND SEATS AS PER MANUFACTURERS SPECIFICATIONS.
- 8. THE SKEW ANGLE OF ANY PIPE ENTERING OR LEAVING BOX SHALL NOT EXCEED 15 DEGREES FROM THE PERPENDICULAR TO THE FACE.
- 9. GRATES AND SEATS NOT INCLUDED IN QUANTITIES.
- 10. PAYMENT FOR INLET SHOWN ON THIS DRAWING SHALL INCLUDE COST OF GRATE AND GRATE SEATS. GRATE AND APPURTANANCES SHALL BE NEENAH FOUNDRY CO. TYPE "L" GRATE - CATALOG No. R-4999-L9 OR APPROVED EQUAL.
- 11. QUANTITIES GIVEN ARE FOR COMPLETE INLET (TOP AND BOTTOM SLABS WITH ALL WALLS). NO REDUCTION HAS BEEN MADE FOR GRATES OR PIPE OPENINGS.
- 12. CURVED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF ASTM A-536 GRADE 65-45-12, OR CONSTRUCTED OF STRUCTURAL STEEL CONFORMING TO THE REQUREMENTS OF ASTM A-36 AND GALVANIZATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

TYPE	PIPE DIAMETER	* "b"	"c"	"s"	"w"	Bars A	Bars B	Bars C	Bars D	Bars E & E1	Bars F & F1	DEPTH OF QUANTITIES FOR BASIC INLET		QUANTITIES PER FT. DEPTH		
1175												(Min.Depth)	Conc.(Cu. Yds.)	Reinf. (Lbs.)	Conc.(Cu. Yds.)	Reinf. (Lbs.)
1	NONE	2'-23/4"		8 "	8 "	#4 @ 6" o.c.	#4 @ 6″ o.c.	#4 @ 9″ o.c.	#4 @ 9" o.c.	#4 @ 9" o.c.	#4 @ 9″ o.c.	4′-0″	2.86	612	0.47	87
1	18" & LESS	3'-0"	SION - ANS	8 "	8″	#4 @ 6" o.c.	#4 @ 6″ o.c.	#4 @ 9″ o.c.	#4 @ 9" o.c.	#4 @ 9" o.c.	#4 @ 9" o.c.	4′-0″	3.27	693	0.51	93
1	24"	3′-6″	: MENS : T PI	8 "	8 "	#5 @ 6" o.c.	#5 @ 6" o.c.	#4 @ 9″ o.c.	#4 @ 9" o.c.	#4 @ 9" o.c.	#4 @ 9" o.c.	4′-0′	3.53	945	0.54	116
1	30"	4′-6″	;" D; {OJE(10"	10"	#5 @5" o.c.	#5 @ 5″ o.c.	#4 @ 9″ o.c.	#4 @ 9″ o.c.	#4 @ 9" o.c.	#4 @ 9″ o.c.	4′-6″	5.67	1206	0.75	132
1	36"	5′-6″	IR "С :Е РЕ	12"	12"	#6 @ 7" o.c.	#6 @ 7" o.c.	#4 @ 9" o.c.	5′-0″	8.00	1411	0.96	141			
1	42"	5′-6″	FC	12"	12"	#6 @ 6" O.C.	#6 @ 6" o.c.	#4 @ 9" o.c.	5′-6″	8.94	1709	1.00	155			

BARS E-

″b″

SECTION AA - AA

* DIMENSION SHALL BE ESTABLISHED

SECTION A - A

--SPECIFICATIONS--CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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. Entered into CADD on 03-02-12 by J.F.T.



ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

CURVED VANE INLET

Bureau Std Engr: L.V.S. DRAWN BY:R.TODDDATE DRAWN: 09-21-90

SPECIAL DRAWING NO. SPECIAL PROJECT DETAIL

CV-6