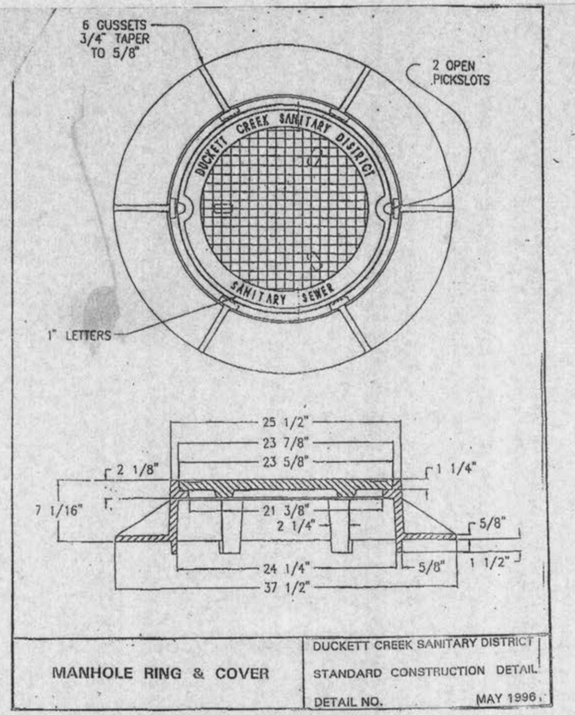
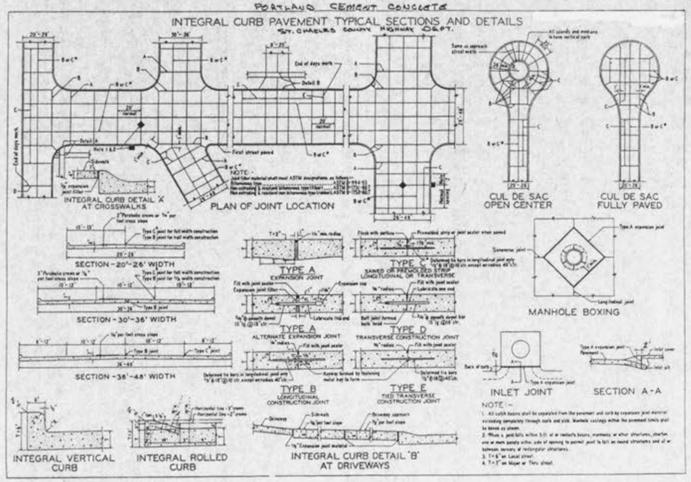
POST MEADOWS
CONSTRUCTION DETAILS

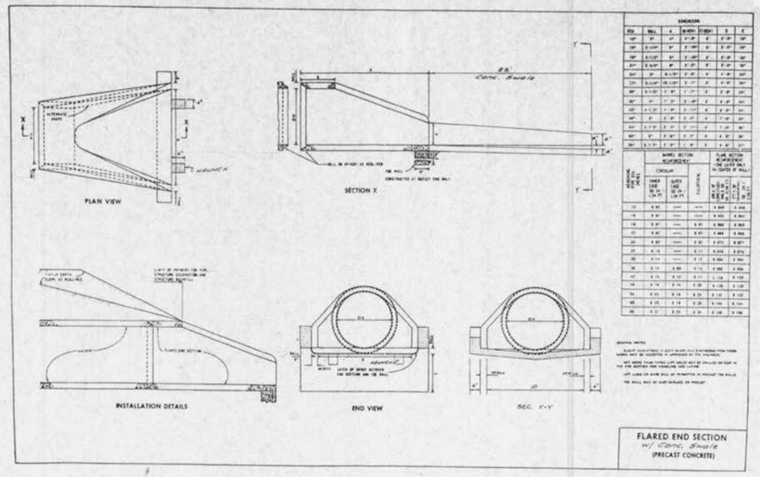
September, 1996 — 96-028

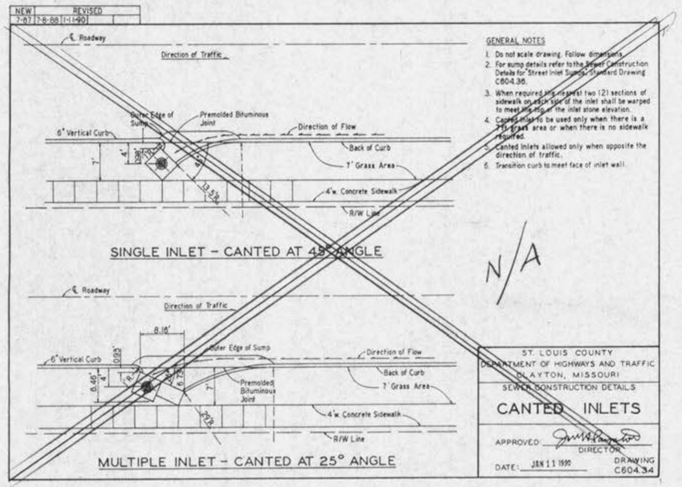
REV. 10-23-96 PER CITY OF O'FALLON
REV. 11-06-96 Per Duckett Creek.
REV. 1-10-97. ADDED DRAWGATES PER CITY OF O'FALLON

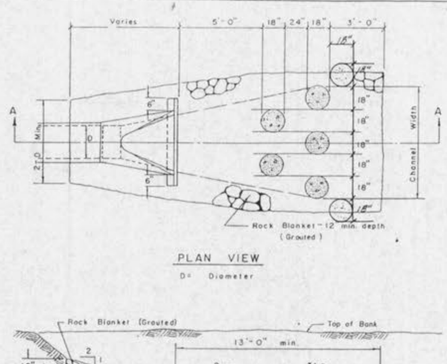


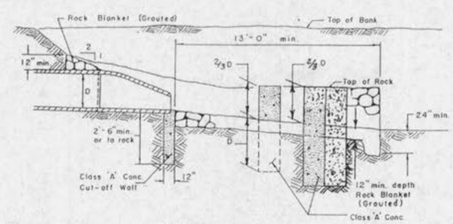
MANHOLE RING & COVER	DUCKETT CREEK SANITARY DISTRICT STANDARD CONSTRUCTION DETAIL DETAIL NO. MAY 1996



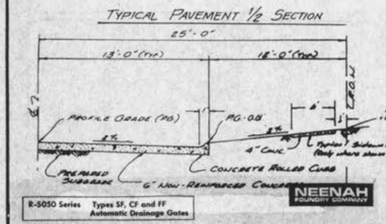








Flared End Section with Energy Dissipator



NEENAH FOUNDRY COMPANY

R-5050 Series Types SF, CF and FF Automatic Drainage Gates

Comes with Vertical Closure

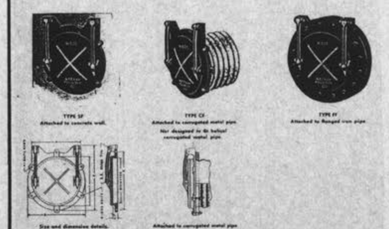
STANDARD GATES: Furnished with vertical closure for maximum ease of operation.

GENERAL INFORMATION: Gates are made of cast iron. All mating parts operate on stainless steel hinge pins. Seating surfaces are machined to 300 microinch finish. The cover is hung with cast brass pivots. Ductile iron cams on flanged sizes 1 become of the cover taken near the center of gravity to ensure sensitive operation. For improved sealing, under-with neoprene seal or extra cost. Aluminum covers can be furnished for special requirements, if specified. Also available on special order and at extra cost are neoprene or solid bronze seal mountings and bronze flushed hinges.

For application with neoprene bead pressure, contact Product Engineering Dept.

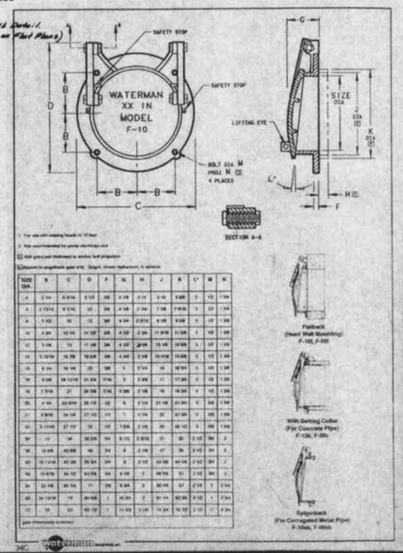
See page 3 for complete specifications or write for further information.

Specify:
1. Catalog number and diameter.
2. Size SF, Type CF or type FF.
3. Aluminum covers when required.
4. Other special requirements such as neoprene or bronze seal mountings and bronze flushed hinges.



Catalog Number			Diameter	Dimensions in inches							
Type SF	Type CF	Type FF		A	B	C	D	E	F	H	J
R-5050-SF6	R-5050-CF6	R-5050-FF6	6	7	11	13	11	N	Y36	4	¾
R-5050-SF8	R-5050-CF8	R-5050-FF8	8	9¼	11	13	11	1¼	Y36	4	¾
R-5050-SF10	R-5050-CF10	R-5050-FF10	10	11¾	12¾	15½	13½	1¾	Y36	4	¾
R-5050-SF12	R-5050-CF12	R-5050-FF12	12	13¾	15¾	18	16	2	Y36	4	¾
R-5050-SF15	R-5050-CF15	R-5050-FF15	15	16¾	18¾	21	19¾	1¾	Y36	4	¾
R-5050-SF18	R-5050-CF18	R-5050-FF18	18	19¾	21¾	24	22¾	1¾	Y36	4	¾
R-5050-SF20	R-5050-CF20	R-5050-FF20	20	21¾	23¾	27¾	25¾	1¾	Y36	4	¾
R-5050-SF24	R-5050-CF24	R-5050-FF24	24	25¾	28¾	32¾	30¾	1¾	Y36	4	¾
R-5050-SF27			27	28¾	31¾	35¾	33¾	1¾	Y36	4	¾
R-5050-SF30	R-5050-CF30		30	31¾	34¾	38¾	36¾	1¾	Y36	4	¾
R-5050-SF36	R-5050-CF36		36	37¾	41¾	45¾	43¾	1¾	Y36	5	¾
R-5050-SF42	R-5050-CF42		42	43¾	47¾	51¾	49¾	1¾	Y36	5	¾
R-5050-SF48	R-5050-CF48		48	49¾	54	58½	54	1½	Y36	5	¾

"SF" and "S" Dimensions apply to Type SF and CF gates only. —Use Type FF Thread Bead and drilled A.W.W.A. Class 150 standard.



SIZE DIA.	B	C	D	F	G	H	J	K	L*	M	N
4	2 3/4	4 5/16	6 1/2	3/8	4 1/8	2 1/2	5 1/2	5 5/8	2	10	1 1/4
6	2 13/16	4 5/16	10	3/4	4 1/8	2 1/16	7 1/8	7 3/8	2	10	1 1/4
8	3 1/2	5/8	12	3/4	4 3/4	2 3/16	9 1/8	9 3/8	2	12	1 1/4
10	4 3/4	12 1/4	14 1/2	3/4	4 1/2	2 3/4	11 3/16	11 3/8	2	12	1 1/4
12	5 1/8	13	17 1/8	3/4	4 1/2	2 3/4	13 1/8	13 3/8	2	12	1 1/4
14	5 15/16	14 7/8	19 3/4	3/4	4 3/4	2 3/4	15 1/16	15 3/8	2	12	1 1/4
15	6 3/4	14 1/4	20	3/4	5	2 3/4	16	16 3/4	2	12	1 1/4
16	6 3/8	14 13/16	21 3/8	7/16	5	2 3/8	17	17 3/8	2	12	1 1/4
18	7 7/16	15	24 3/4	7/16	5 3/8	2 1/8	19	19 3/4	2	12	1 1/4
20	7 3/4	15 5/16	26 1/2	1/2	6	2 1/4	21 1/8	21 3/4	2	12	1 1/4
21	8 3/16	14 1/8	27 1/2	1/2	5	2 1/4	22	22 3/4	2	12	1 1/4
24	9 1/16	17 1/2	32	1/2	7 5/8	2 1/4	25	25 1/2	3	12	1 1/4
30	12	18	38 3/4	3/4	8 1/2	2 3/16	31	32	3 1/2	24	2
36	14 3/4	19 3/8	46	3/4	8	2 1/8	37	38	3 1/2	24	2
42	15 1/16	42 3/4	53 3/4	3/4	8	2 1/2	43 3/8	44 1/4	3 1/2	24	2
48	15 5/16	44 1/2	60 1/2	3/4	8 1/2	2	49 3/8	51	3 1/2	24	2
54	15 7/8	49 3/4	71	7/8	9 3/4	3	55 1/4	57	3 1/2	24	2 1/4
60	16 13/16	52	80 1/2	1	10 3/4	3	61 1/4	63 3/8	3 1/2	24	2 1/4
72	19	63	93 1/2	1	11 1/2	3 1/2	74 3/4	76 1/2	3 1/2	1	2 3/4

pipe dimensions as nominal

WATERMAN INDUSTRIES, INC.
347

F-10 DRAINAGE GATE

CAST IRON - AUTOMATIC

- Flatback or Spigotback
- Cast Iron Frame and Cover
- Galvanized Steel Angle Links
- Bronze Bushings
- Built-In "Safety Bar"
- 5" seat on 6" - 24" sizes
- 2 1/2" seat on 30" - 72" sizes
- Steel Bolts
- Shopcoat Paint

The Waterman Red Top Drainage Gate has been designed as a competitive flap gate for use with concrete pipe, headwalls, and corrugated metal pipe with up to a ten foot seating head. The frame and cover are of heavy duty stitched cast iron design. Steel angle links have been used to absorb unbalanced side shock, and are balance-pivoted on bronze bushings.

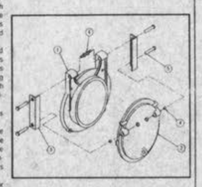
A 5" seat on sizes up inches to twenty-four inches and 2 1/2" seat on sizes 30 inches to 72 inches eliminates the need for special pipe cuts or sections, and prevents the gate from standing open due to slight pipe sagging or settling. An innovation in the cover provides each gate with a safety to prevent jamming, without additional cost.

Gates are available with special stainless steel or brass links and bolts, as well as bronze seating faces.

This gate has been extensively used on federal, state and municipal projects for drainage, waste-line, sewage treatment, flood control and irrigation systems. A free outflow with a practical sealing against back flow combine with maintenance-free operation to assure years of satisfactory use.

This gate is not recommended for pump discharge or other applications where violent slamming may occur. Heavy-duty links and bushings are available when severe operating conditions are anticipated.

OPTIONAL ITEMS INCLUDE:
- Bronze seats
- Stainless Steel or bronze links, and bolts.
- Special heavy-duty links and bushings for severe service.
- Special paint coatings or ASTM galvanizing
- Taper setting collars and special pipe adapters.



PARTS LIST		
No.	Name	Qty.
1	Frame	1
2	Cover	1
3	Hinge Link	2
4	Hinge Bushing	4
5	Bolt	4
6	Nut	4

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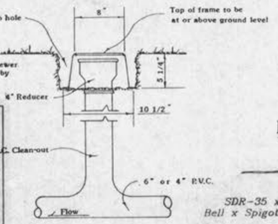
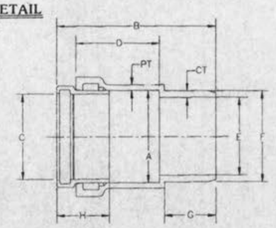
347



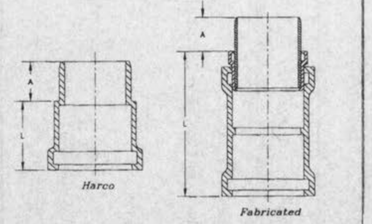
CLEAN-OUT DETAIL
Not to Scale



SIZE	CATALOG NO.	A	B	C	D	E	F	G	H	CT	PT
4	334-040	4.56	8.23	4.25	4.10	3.94	4.80	2.72	2.7	.32	.25
6	334-060	6.68	9.93	6.31	4.57	5.88	6.90	3.72	3.5	.45	.36

REV.	DATE	BY	APPROVED	DESCRIPTION
A	6/16/95	SBR	NONE	04030030
	12/11/96			

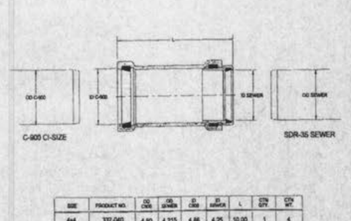
THE HARRINGTON CORP
LYNCHBURG, VIRGINIA
SDR-35 x C900 BxS (Spec. 4" & 6")
PVC



SIZE	PROD. NO.	A	L	Style
4	335-040	3.2	13.0	Fabricated
6	335-060	3.9	13.5	Harco
8	335-080	4.0	12.5	Fabricated

REV.	DATE	BY	APPROVED	DESCRIPTION
A	2/26/96	SBR	NONE	04030031
	2/26/96			

THE HARRINGTON CORP
LYNCHBURG, VIRGINIA
C-900 x SDR-35 BxB (Spec. 4" & 6")



SIZE	PRODUCT NO.	OD C900	ID C900	ID SDR35	L	QTY PT	QTY WT
4x4	337-040	4.80	4.215	4.66	4.25	10.00	1
6x6	337-060	6.90	6.275	6.06	6.32	11.13	1
8x8	337-080	9.05	8.400	8.13	8.45	12.50	1

Note: Reducing sizes may be created by adding bell by spigot increasers on either end.

All Dimensions in inches.