

SLIST COUNTY MOBILE COUNTY MISSISSIPPI

REGISTERED CIVIL ENGINEER

MOY 31, 2018

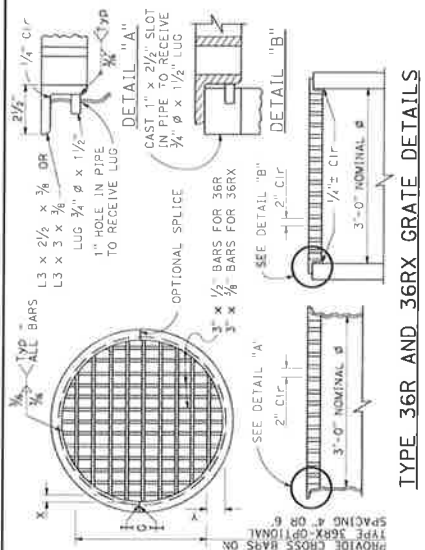
PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

NO. SCALE

D77B

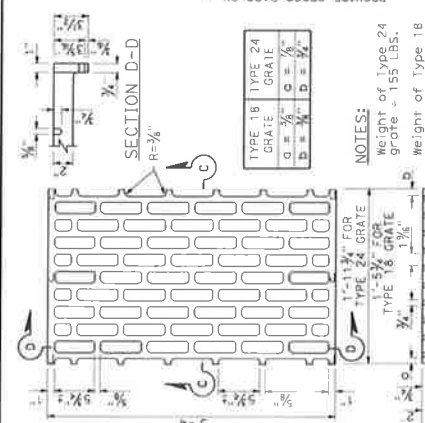


TYPE 36R AND 36RX GRATE DETAILS

SECTION A-A
ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE TYPE 36R AND 36RX

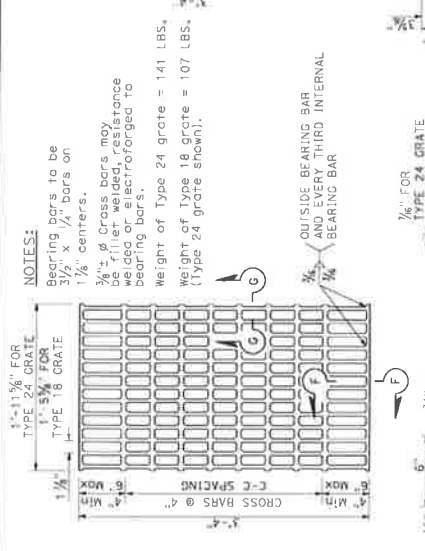
SECTION B-B
BASIS FOR MISC IRON AND STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS

INLET TYPE	GRATE TYPE	NO. OF WEIGHTS
000	24-10C	2
(SEE NOTE 4)	24-10S	2
	24-12X	2
	24-13	2
	24-10C	2
00,00L,01,02,03,04	24-10S	2
(TYPE 24)	24-12X	1
	24-13	1
04 (TYPE 18)	18-9X	1
	18-10	1
	18-9S	2
	18-9X	2
	18-10	2
	18-10C	2
	24-10C	2
	24-12X	2
	24-13	2
001	36RX (MOO)	1
GMP,CCP,GCP1	36RX	1
001	36R (MOO)	1
GMP,CCP,GCP1	36R	1
TRASH RACK	36R	1
GRATE CHAIN	36R	2



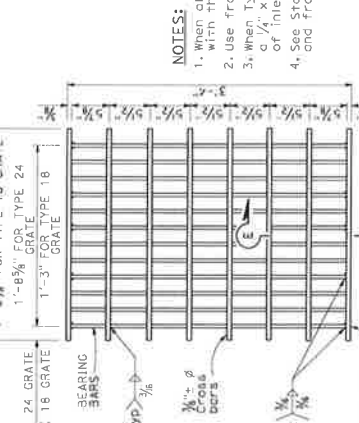
TYPE 18-8C AND 24-10C GRATE

(Cast ductile iron)



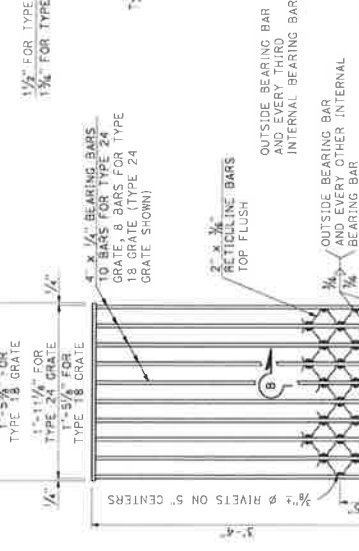
TYPE 18-10S AND 24-13 GRATE

(We ded Steel)



TYPE 18-9X AND 24-12X GRATE

(We ded Steel)



TYPE 18-8S AND 24-10S GRATE

(We ded Steel) Reticuline Type

NOTE: 1. When alternative grates are allowed - Final pay based on alternative with the lesser weight.

2. Use frame shown on Standard Plan D74A, D74B or D77A as appropriate.

3. When Type 24-10S, 24-12X or 24-13 grates are used with 000 inlets, and every third or fourth bar is placed across the center of inlet frame to separate the individual grates.

4. See Standard Plan D77A for connecting details for grates and frame. When chain is required, do not use cast ductile iron grates.

GRATE BAR SPACING TABLE

TYPE	NO. OF BEARS	CLEAR BAR SPACING	X	Y	Z
36R	12	2"	2 1/2"	4"	6"
36RX (STEEL)	12	2"	2 1/2"	4"	6"
36RX (CAST)	12	2"	2 1/2"	3 1/2"	5 1/2"
36R (MOO)	12	2"	2 1/2"	3 1/2"	5 1/2"
36RX (MOO) (STEEL)	12	2"	2 1/2"	3 1/2"	5 1/2"
36RX (MOO) (CAST)	12	2"	2 1/2"	3 1/2"	5 1/2"