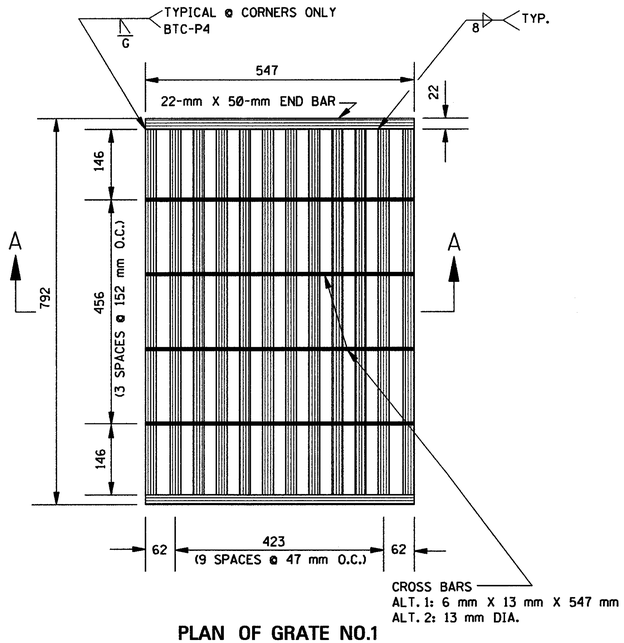
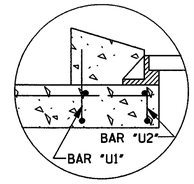
STATE	PROJECT NO.
MISS.	

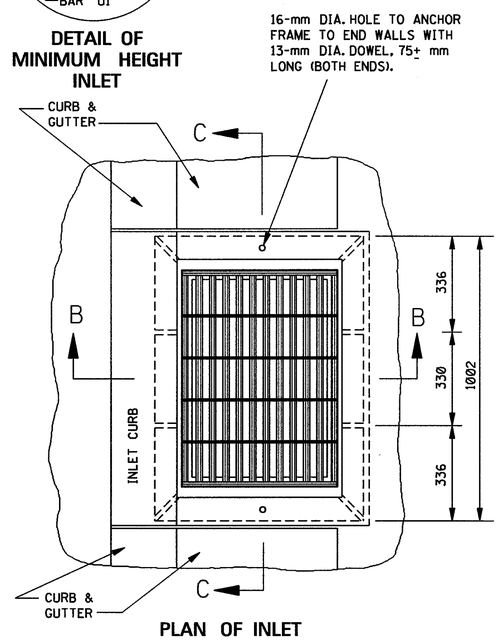


PLAN OF GRATE NO.1

NOTE: FOR OTHER GRATE DETAILS SEE SHEET IG-2.



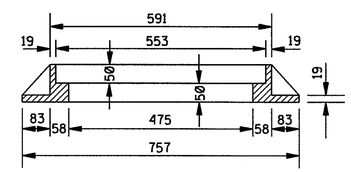
DETAIL OF MINIMUM HEIGHT INLET



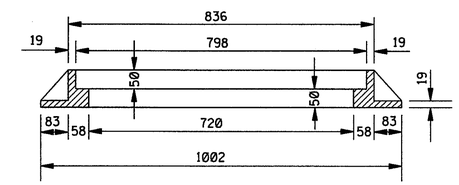
PLAN OF INLET

QUANTITIES													
PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		PIPE OPENING DEDUCTION (m^3)	T	BARS/SIZES							
		CONC. (m^3)	STEEL (kg)			"A" / #13	"B" / #13	"C" / #13	"D" / #13	"E" / #13	"U1" / #13	"U2" / #13
						NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.
450	838	0.709	30.0	0.039	63	4 @ 1500	4 @ 1100	10 @ 940	2 @ 825	6 @ 1025	1 @ 1490	1 @ 1140
600	1000	0.918	35.0	0.066	75	4 @ 1850	4 @ 1275	12 @ 940	2 @ 825	6 @ 1200	1 @ 1490	1 @ 1140
750	1163	1.147	39.1	0.101	88	4 @ 2200	4 @ 1450	13 @ 940	2 @ 825	6 @ 1375	1 @ 1490	1 @ 1140
900	1325	1.398	45.0	0.143	100	4 @ 2550	4 @ 1625	16 @ 940	2 @ 825	6 @ 1550	1 @ 1490	1 @ 1140
1050	1488	1.671	50.0	0.192	113	4 @ 2900	4 @ 1800	18 @ 940	2 @ 825	6 @ 1725	1 @ 1490	1 @ 1140
1200	1650	1.965	54.1	0.248	125	4 @ 3250	4 @ 1975	19 @ 940	2 @ 825	6 @ 1900	1 @ 1490	1 @ 1140
1350	1813	2.280	59.1	0.311	138	4 @ 3600	4 @ 2150	21 @ 940	2 @ 825	6 @ 2075	1 @ 1490	1 @ 1140
1500	1975	2.618	65.0	0.382	150	4 @ 3950	4 @ 2325	24 @ 940	2 @ 825	6 @ 2250	1 @ 1490	1 @ 1140
1650	2138	2.976	71.0	0.459	163	4 @ 4300	4 @ 2500	27 @ 940	2 @ 825	6 @ 2425	1 @ 1490	1 @ 1140
1800	2300	3.356	75.0	0.545	175	4 @ 4650	4 @ 2675	28 @ 940	2 @ 825	6 @ 2600	1 @ 1490	1 @ 1140
560 X 345	733	0.722	30.3	0.039	63	4 @ 1510	4 @ 1000	10 @ 940	2 @ 825	6 @ 1135	1 @ 1490	1 @ 1140
725 X 460	860	0.891	36.1	0.063	75	4 @ 1835	4 @ 1135	13 @ 940	2 @ 825	6 @ 1325	1 @ 1490	1 @ 1140
920 X 570	983	1.120	40.3	0.094	88	4 @ 2190	4 @ 1270	14 @ 940	2 @ 825	6 @ 1545	1 @ 1490	1 @ 1140
1110 X 675	1100	1.368	43.5	0.135	100	4 @ 2535	4 @ 1400	14 @ 940	2 @ 825	6 @ 1760	1 @ 1490	1 @ 1140
1300 X 795	1233	1.631	49.6	0.179	113	4 @ 2900	4 @ 1550	17 @ 940	2 @ 825	6 @ 1975	1 @ 1490	1 @ 1140
1485 X 915	1365	1.922	53.7	0.232	125	4 @ 3250	4 @ 1690	18 @ 940	2 @ 825	6 @ 2185	1 @ 1490	1 @ 1140
1650 X 1015	1478	2.202	59.5	0.287	138	4 @ 3570	4 @ 1815	21 @ 940	2 @ 825	6 @ 2375	1 @ 1490	1 @ 1140
1855 X 1145	1620	2.555	62.9	0.356	150	4 @ 3950	4 @ 1970	21 @ 940	2 @ 825	6 @ 2600	1 @ 1490	1 @ 1140
2235 X 1370	1870	3.283	73.1	0.502	175	4 @ 4655	4 @ 2245	25 @ 940	2 @ 825	6 @ 3035	1 @ 1490	1 @ 1140

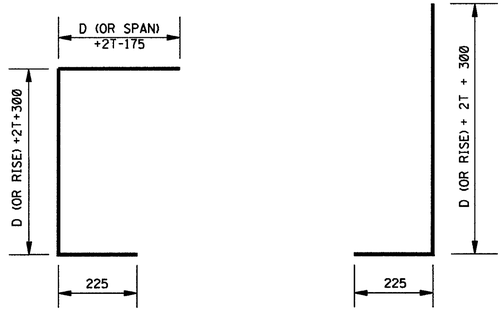
NOTES: 1. NO PIPE OPENINGS HAVE BEEN DEDUCTED FROM QUANTITY SHOWN.
2. FOR EACH ADDITIONAL METER OF INLET HEIGHT, ADD 0.584 m^3 CLASS "B" CONCRETE AND 19.4 kg REINFORCING STEEL.
3. 9 BARS "C" AND 6 BARS "D" REQUIRED PER EACH ADDITIONAL METER OF INLET HEIGHT. LENGTH OF BARS "B" WILL INCREASE WITH ADDITIONAL HEIGHT.
4. MASS OF FRAME CASTING = 111 kg.
MASS OF GRATE = SEE SHEET IG-2.



SECTION B–B
(FRAME)



SECTION C–C
(FRAME)

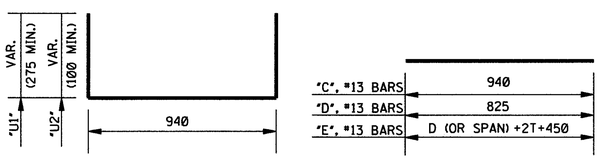


4 #13 BARS,
[D (OR RISE) +D (OR SPAN)+4T+350] LONG

BARS "A"

4 #13 BARS,
[D (OR RISE)+2T+525] LONG

BARS "B"

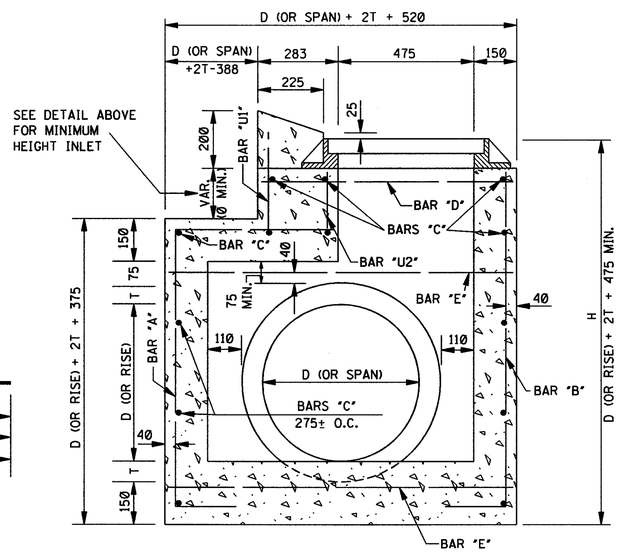


1 #13 BAR EACH, VAR. LENGTH

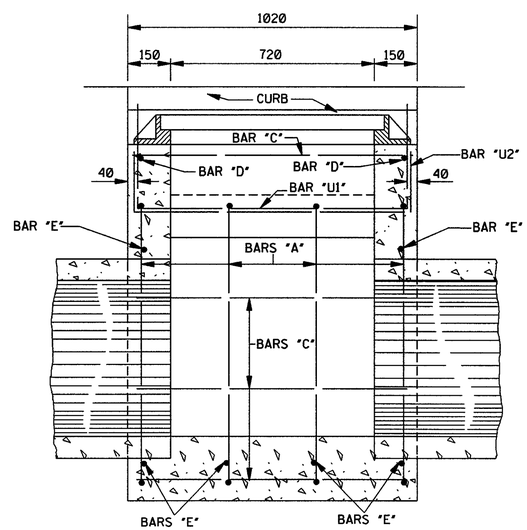
BARS "U1" & "U2"

BARS "C", "D" & "E"

BAR DETAILS



SECTION B–B



SECTION C–C

GENERAL NOTES:

1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
2. CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
3. THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
4. FRAME TO BE GRAY IRON CASTING, (AASHTO M 105, CLASS 30).

ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

GUTTER INLET FOR TYPE 2 CURB STORM SEWER ALONG ROADWAY

DEPARTMENT OF TRANSPORTATION METRIC MISSISSIPPI

WORKING NUMBER
GI-1A

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER
317