DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101,105, 134,170,405,605	Var	321	1697

Caltrans Metric

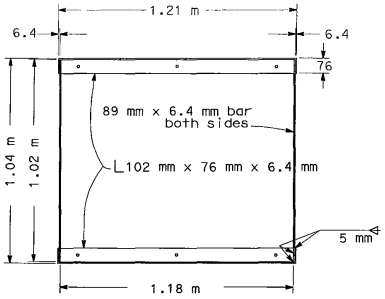
REGISTERED CIVIL ENGINEER 5-15-03

2-2-04
PLANS APPROVAL DATE

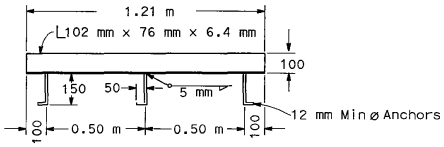
REGISTERED PROFESSIONAL ENGINEERS — WING-YAN LEE — No. 61452 — Exp. 6-30-05 — CIVIL — STATE OF CALIFORNIA

CALCULATED/ DESIGNED BY	CHECKED BY	PROJECT ENGINEER	REVISED BY	DATE REVISED
ROMULO ROBENIOL / WING-YAN LEE	WING-YAN LEE	WING-YAN LEE		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **HYDRAULICS**

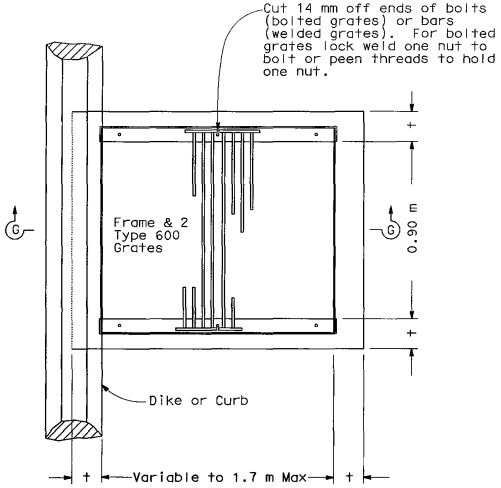


GRATE FRAME DETAIL

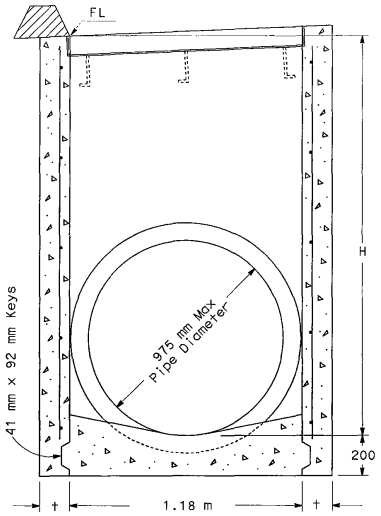


ANCHOR PLACEMENT DETAIL

For grate, frame and anchor placement details see Standard Plans D77A and D77B



PLAN



SECTION G-G
(For pipe diameters 975 mm or less)

NOTES

1. 'H' is the difference in elevation between the outlet pipe flow line and the flow line of the grates.
2. Steps - None required when 'H' is 1.07 m or less. Install one step 400 mm± above floor when 'H' is more than 1.07 m and less than 1.52 m. Where 'H' is more than 1.52 m steps shall be evenly spaced @ 300 mm± intervals from 400 mm± above floor to within 300 mm± of the top of the box. Place steps in wall without pipe openings. See Standard Plan D74C for step detail.
3. Pipe(s) can be placed in any wall.
4. Reinforcing steel not required in walls when H=1.8 m or less.
5. Reinforcing steel in walls shall be #13 bars @ 450 mm± centers placed 40 mm clear to inside of box.
6. FOR ISOLATION JOINT DETAIL, SEE SHEET D-113.

MISCELLANEOUS IRON & STEEL

Inlet Type	Grate Type	MASS(kg)
GD-1	600 - 12	264

H	t
2.50 m or less	150 mm
2.51 m to 6.00 m	200 mm

GD-1 INLET

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE

DRAINAGE DETAILS

NO SCALE

D-88

LAST REVISION 00-00-00 | DATE PLOTTED => 11-FEB-2004 | TIME PLOTTED => 16:10

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => trmariak

CU 07312 | EA 117811