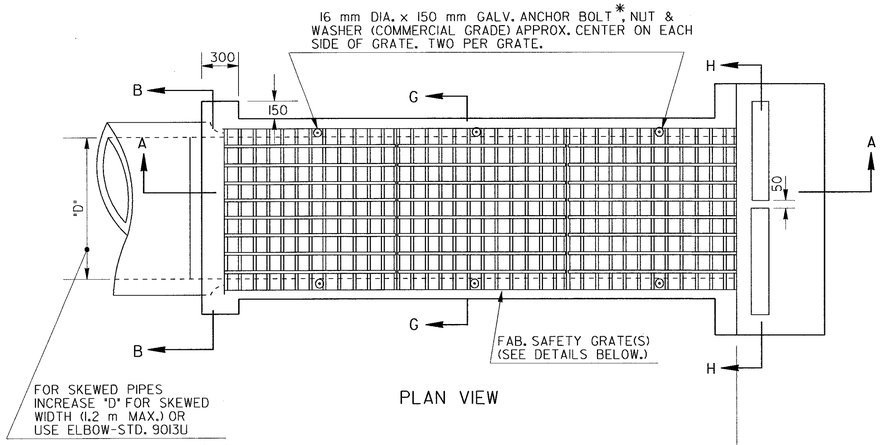
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-209-1(1)	363	513

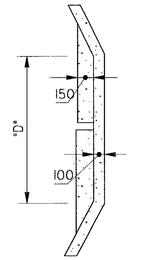
Metric

NOTE: A MAXIMUM TRANSVERSE SPACE OF 75 mm IS PERMITTED BETWEEN ABUTTING GRATE SECTIONS

STRAIGHT TYPE

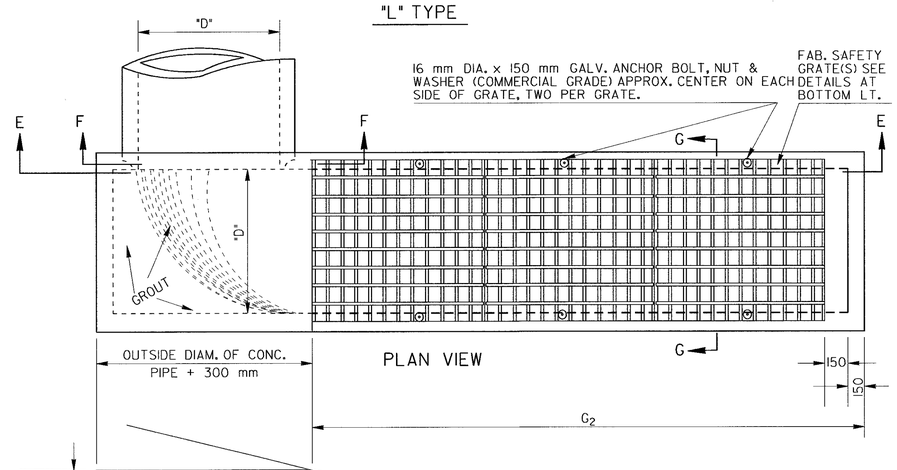


PLAN VIEW



SECTION H-H

"L" TYPE



PLAN VIEW

PIPE DIA.	STRAIGHT TYPE CONC. m^3	STRAIGHT TYPE REINF. STEEL *(kg)	STRAIGHT TYPE G_1	"L" TYPE CONC. m^3	"L" TYPE REINF. STEEL *(kg)	"L" TYPE G_2
4:1 SLOPE						
375	0.73	32.20	1.83 m	1.14	61.69	2.44 m
450	0.82	34.02	2.13 m	1.43	64.41	2.74 m
600	1.48	50.35	2.90 m	2.06	89.36	3.51 m
750	1.93	81.19	3.51 m	2.78	112.49	4.11 m
900	2.52	99.79	4.27 m	3.88	142.88	4.72 m
1050	2.98	135.17	4.88 m	4.66	193.68	5.49 m
1200	3.75	160.12	5.49 m	5.57	231.33	6.10 m
6:1 SLOPE						
375	1.10	40.37	2.74 m	1.64	71.21	3.66 m
450	1.28	44.91	3.20 m	2.19	79.38	4.27 m
600	2.09	66.68	4.27 m	2.94	106.59	5.18 m
750	2.89	104.78	5.18 m	3.98	140.61	6.10 m
900	3.91	133.81	6.40 m	5.46	180.08	7.01 m
1050	4.78	178.72	7.32 m	6.79	244.03	8.23 m
1200	5.99	215.00	8.23 m	8.43	299.37	9.45 m

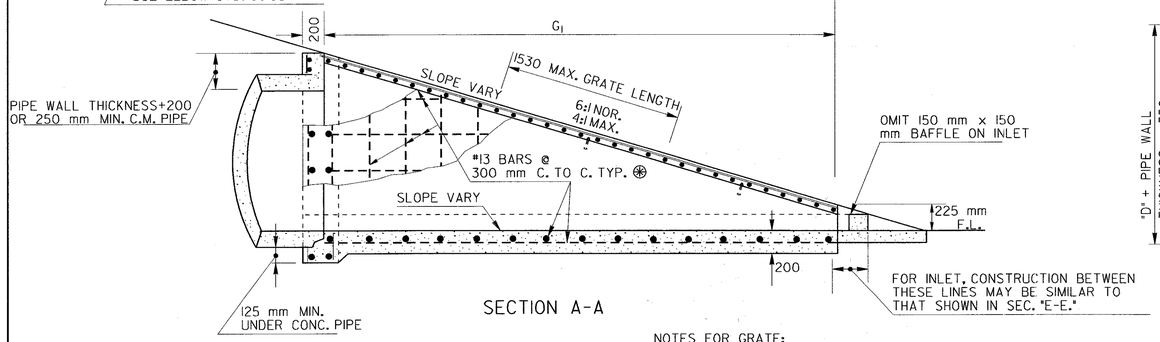
SUMMARY OF QUANTITITES

* kg STEEL PROVIDED FOR INFORMATION ONLY

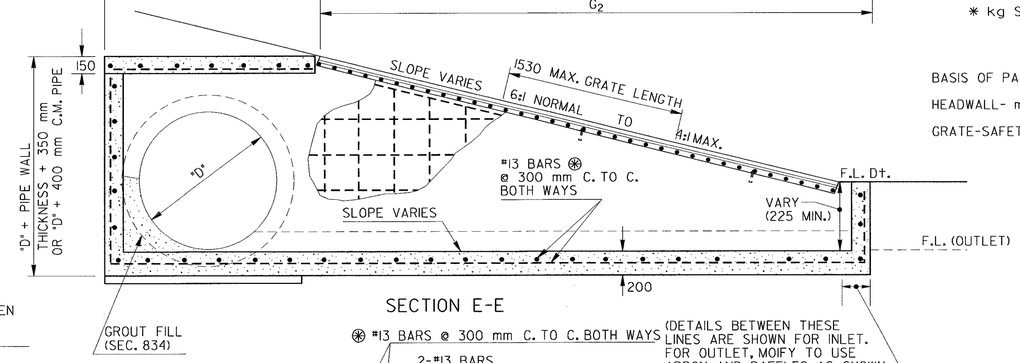
BASIS OF PAYMENT:

HEADWALL- m^3 OF CONC. INCLUDING REINF. STEEL

GRATE-SAFETY GRATE TYPE SQUARE meters.



SECTION A-A



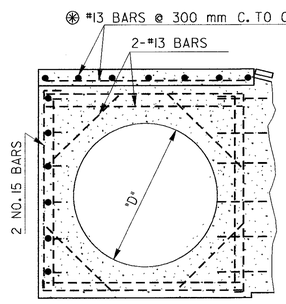
SECTION E-E

(DETAILS BETWEEN THESE LINES ARE SHOWN FOR INLET. FOR OUTLET, MOIFY TO USE APRON AND BAFFLES AS SHOWN IN SEC. H-H.)

NOTES FOR GRATE:

FABRICATOR WILL ARRANGE FOR TESTING BY THE GA. D.O.T. LABORATORY 14 DAYS PRIOR TO FABRICATION.
ALL BARS SHALL MEET THE REQUIREMENTS OF AASHTO M 31M GRADE 420.
ALL LONGITUDINAL BARS WILL BE #16 BARS.
GRATE BAR SPACINGS SHOWN ARE "NOMINAL-MINIMUM" AND MAY BE INCREASED (UP TO 10% TYP.) WITH NO ADDITIONAL PAYMENT TO PROVIDE BEST FIT FOR STRUCTURE

"D"= INSIDE DIAMETER OF PIPE



SECTION F-F

*16 mm DIA. GALV. EXPANSION TYPE CONCRETE ANCHOR BOLTS WHICH HAVE BEEN APPROVED BY THE GA. D.O.T. LABORATORY MAY BE USED INSTEAD OF THE BOLTS SHOWN FOR EITHER THE STRAIGHT OR THE "L" TYPE ENDWALLS.

GENERAL NOTES:

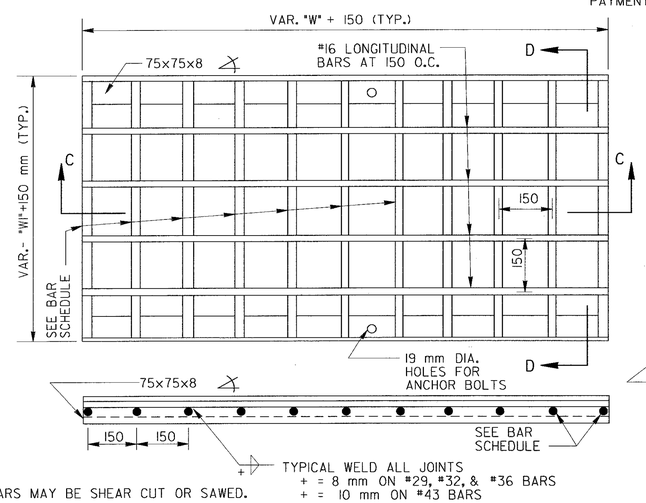
1. SPECIFICATIONS : GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. THE INSIDE WIDTH OF INLETS (W_I) SHALL BE EQUAL TO THE INSIDE DIAMETER (D) OF THE PIPE, EXCEPT FOR 375 mm PIPES, IN WHICH CASE W_I SHALL EQUAL 450 mm.

NOTE:

REBAR SIZES ARE PER ASTM A615M, SI UNITS, EQUIVALENT U.S. STANDARD SIZE AND/OR EQUAL STEEL AREAS WILL BE ALLOWED.

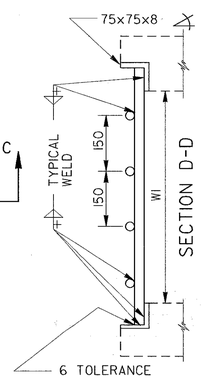
NOTE: DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.

SAFETY GRATE FABRICATION DETAILS



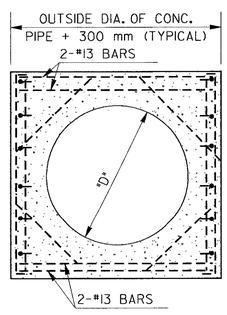
BARS MAY BE SHEAR CUT OR SAWED.

SECTION C-C

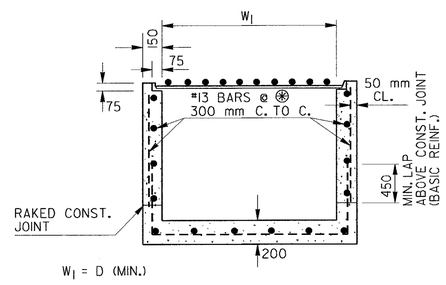


SECTION D-D

BAR SCHEDULE FOR GRATE		
"W" (SEE INLET)	GRATE TYPE	BAR SIZE
450 TO 600	1	#29
750 TO 900	2	#32
1.0 m TO 1.06 m	3	#36
1.2 m TO 1.68 m	4	#43



SECTION B-B



SECTION G-G

⊛ ALTERNATE REINFORCING HAVING A STEEL AREA OF 400 mm²/m MAY BE USED IN CONCRETE.

		12-97	DATE
	REVISED METRIC REINFORCING		REVISION
	RMU		BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

ENDWALLS - STRAIGHT & "L" TYPES WITH FABRICATED SAFETY GRATE (METRIC)

SEPT. 1996

DES. ____ (SUBMITTED)
DRW. ____ STATE ROAD & AIRPORT DESIGN ENGR.
TRA. ____ (APPROVED)
CHK. ____ CHIEF ENGINEER

NUMBER D-5

4/12/2006 2:09:32 PM \\GDOT-DSN\GOPLOT\OCF\go_kip8000.paper 36x24.pcf mgavins I:\RoadDesign\StandardsandConstructionDetails\Contruction Details\Metric Construction Details (PRF)\md-5.prf CO-R04