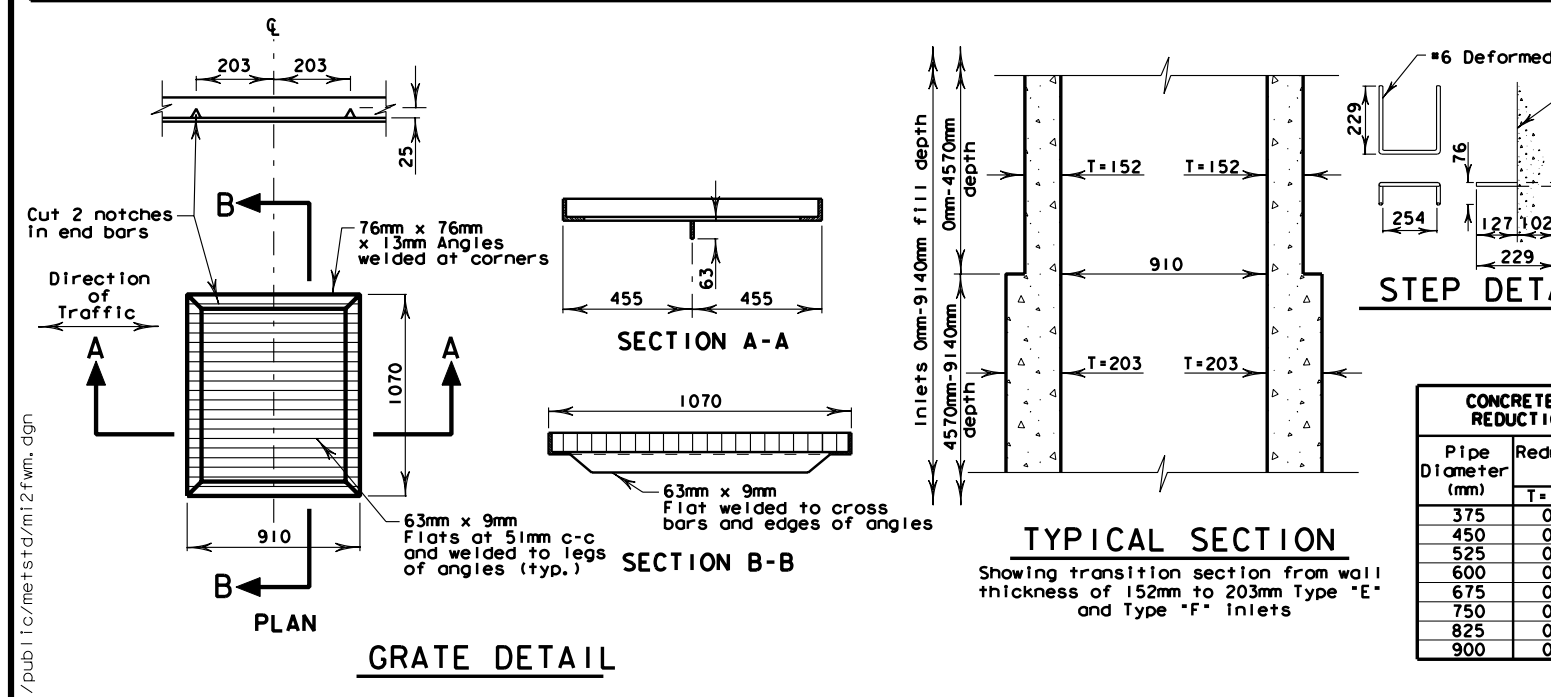


Bar	Size	Spacing	D=910mm		D=1220mm		D=1520mm		D=1830mm		D=2130mm		D=3050mm		D=6100mm		D=9140mm			
			No.	Length	Weight	No.	Length	Weight	No.	Length	Weight	No.	Length	Weight	No.	Length	Weight	No.	Length	Weight
A	4	-	2	2540	2.52	2	2540	2.52	2	2540	2.52	2	2540	2.52	2	2540	2.52	2	2540	2.52
B	4	-	2	2740	2.72	2	2740	2.72	2	2740	2.72	2	2740	2.72	2	2740	2.72	2	2740	2.72
C1	4	305	3	2950	2.93	3	3560	3.54	3	4160	4.14	3	4770	4.74	3	5380	5.35	3	7210	7.17
C2	4	305	-	-	-	-	-	-	-	-	-	-	-	-	6	6860	6.82	6	9910	9.85
D1	4	305	4	2390	2.38	6	2390	2.38	8	2390	2.38	10	2390	2.38	12	2390	2.38	14	2390	2.38
D2	4	229	-	-	-	-	-	-	-	-	-	-	-	-	14	2590	2.57	40	2590	2.57
E1	4	305	3	2840	2.82	3	3450	3.43	3	4060	4.04	3	4670	4.64	3	5280	5.25	3	7110	7.07
E2	4	305	-	-	-	-	-	-	-	-	-	-	-	-	6	6810	6.77	6	9850	9.79
Steps	6	305	1	860	1.92	2	860	1.92	3	860	1.92	4	860	1.92	5	860	1.92	8	860	1.92
Total steel (kg)			39		49		60		70		80		111		229		352			
Class "A" concrete - m ³			0.94m ³		1.13m ³		1.33m ³		1.53m ³		1.73m ³		2.32m ³		4.75m ³		7.52m ³			
D=910mm to D=4570mm - (kg) Steel			39.17kg + 33.83kg/m																	
D=4570mm to D=9140mm - (kg) Steel			165.33kg + 40.23kg/m																	
m ³ Concrete			0.93m ³ + 0.650m ³ /m																	

Bar	Size	Spacing	C=380mm		C=610mm		C=910mm		C=1220mm		C=1520mm		C=1830mm		C=2130mm			
			No.	Length	Weight	No.	Length	Weight	No.	Length	Weight	No.	Length	Weight	No.	Length	Weight	
A	4	-	2	2540	2.52	2	2540	2.52	2	2540	2.52	2	2540	2.52	2	2540	2.52	
B	4	-	2	2740	2.72	2	2740	2.72	2	2740	2.72	2	2740	2.72	2	2740	2.72	
C1	4	305	-	-	-	6	560	0.56	6	860	0.85	6	1170	1.16	6	1470	1.46	
C2	4	305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
D1	4	305	-	-	-	2	2390	2.38	4	2390	2.38	6	2390	2.38	8	2390	2.38	
D2	4	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E1	4	305	-	-	-	6	480	0.48	6	790	0.79	6	1090	1.08	6	1400	1.09	
E2	4	305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Steps	6	305	-	-	-	-	-	-	1	860	1.92	2	860	1.92	3	860	1.92	
Total steel (kg)			10		21		31		42		52		62		73			
Class "A" concrete - m ³			0.29m ³		0.44m ³		0.63m ³		0.83m ³		1.03m ³		1.23m ³		1.43m ³			
C=380mm to C=4570mm - (kg) Steel			13.99kg + 33.83kg/m															
m ³ Concrete			0.29m ³ + 0.650m ³ /m															



Bar	Size	Spacing	C=3050mm		C=6100mm		C=9140mm	
			No.	Length	Weight	No.	Length	Weight
A	4	-	2	2540	2.52	2	2540	2.52
B	4	-	2	2740	2.72	2	2740	2.72
C1	4	305	6	3000	2.98	-	-	-
C2	4	305	-	-	-	6	5310	5.28
D1	4	305	18	2390	2.38	28	2390	2.38
D2	4	229	-	-	-	14	2590	2.57
E1	4	305	6	2920	2.90	-	-	-
E2	4	305	-	-	-	6	5990	5.95
Steps	6	305	8	860	1.92	18	860	1.92
Total steel (kg)			103		220		342	
Class "A" concrete - m ³			2.02m ³		4.39m ³		7.16m ³	
C=4570mm to C=9140mm - (kg) Steel			155.76kg + 40.23kg/m					
m ³ Concrete			3.01m ³ + 0.908m ³ /m					

GENERAL NOTES

- All concrete shall be Class "A" concrete.
- All dimensions relating to reinforcing steel are to centers of bars. Reinforcing steel shall be placed with the centers of outside layers of bars 76mm from the concrete surface where the wall thickness, T, is 152mm and shall be placed with the centers of outside layers of bars 102mm from the concrete surface where the wall thickness, T, is 203mm unless otherwise noted.
- Grate shall conform to Item 471.
- All dimensions shown are in millimeters unless otherwise shown.

CONCRETE QUANTITY REDUCTION TABLE

Pipe Diameter (mm)	Reduction One Pipe (m ³ Concrete)	
	T=152mm	T=203mm
375	0.03	0.04
450	0.04	0.05
525	0.06	0.08
600	0.07	0.09
675	0.08	0.11
750	0.11	0.14
825	0.13	0.17
900	0.15	0.20

RIPRAP DETAIL
Riprap to be placed at each Inlet to conform to adjacent slopes (0.76m³)

STANDARD INLET DETAILS TYPES "E" & "F"

MI-2 (FW) (M)

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DESIGNER	FED. REG.	STATE	FEDERAL AID PROJ. NO.	HIGHWAY
CHECKED	6	TEXAS		
DRAWN	DISTRICT	COUNTY	CONTROL SECTION	JOB
CHECKED	FTW			

ORIG. DRAW DATE: 3/96

7/pub11c/met/std/mi2fw.m.dgn