



- 1. For use criteria see "Steel Grating Use Criteria" Index No. 261.
- 2. Grates shall be ASTM A242, A572 or A588, Grade 50 steel, and galvanized in accordance with Section 975 and 425-3.2 of the Standard Specifications.
- 3. Channel section C3 \times 6.0 may be substituted for the C4 \times 5.4 channel.
- 4. All reinforcing No. 4 bars with 2" clearance except as noted. Spacings shown are center to center. Laps to be 12" minimum. Welded wire fabric (two cages max.) having an equivalent cross section area (0.20 sq. in.) may be substituted for bar reinforcement.
- 5. Drill 1½" holes 8" deep with a rotary drill in existing endwall for dowel bars. Holes shall be thoroughly cleaned prior to installing Adhesive-Bonded Dowels.
- 6. Endwall to be paid for under the contract unit price for Class I Concrete (Endwalls), CY and Reinforcing Steel (Roadway), LB. Cost of Adhesive-Bonded Dowels to be included in the contract unit price for reinforcing steel. Cost of grates to be paid for under the contract unit price for Endwall Grate, LB., plan quantity. Cost of galvanized bolts and nuts to be included in the contract unit price for the grate.
- 7. Sod slopes 5' each side and above endwall. Sodding to be paid for under the contract unit price for Performance Turf, SY.

			DIMEN	ISIONS	S AND C	QUANT I	TIES PEI	R GRATE		
Slope	Pipe	Channels	@ 5.4 Lb.	s./LF	Bars @ 3.4 lbs/LF (2 ea.)			Angles @ 3.2 Lbs./LF		(2)Total
	Size	Quantity	F	Lbs.	L	M-4"	Lbs.	Р	Lbs.	Weight-Lbs
	15"	10	2'-61/8"	139	11'-3"	3'-3"	99	9'-4"	60	298
1:6	18"	12	2'-91/8"	183	13'-3"	3'-6"	114	11'-4"	73	370
1.0	24"	15	3'-31/8"	269	16'-3"	4'-0"	138	14'-4"	92	499
	30"	18	3'-97/3"	<i>372</i>	19'-3"	4'-6"	162	17'-4"	111	645
	15"	6	2'-67/8"	83	7'-3"	3'-3"	71	5'-4"	34	188
1:4	18"	7	2'-9 ⁷ / ₈ "	107	8'-3"	3'-6"	80	6'-4"	41	228
1:4	24"	9	3'-37/8"	161	10'-3"	4'-0"	97	8'-4"	53	311
	30"	1 1	3'-9 % "	227	12'-3"	4'-6"	114	10'-4"	66	407

	D.	IMENSI	ONS AI	ND QUA	ANTITIE	ES PER U-E	NDWALL			
Pipe Size	G	М	D	R	Р	Class I Concrete-CY	Reinforcing Steel-Lbs.	Sod SY		
15"	2'-81/2"	3'-7"	2'-2"	13'-0"	9'-4"	2.12	167	23		
18"	2'-111/2"	3'-10"	2'-5"	14'-6"	11'-4"	2.53	173	25		
24"	3'-5½"	4'-4"	2'-11"	17'-6"	14'-4"	3.48	238	29		
30"	3'-11½"	4'-10"	3'-5"	20'-6"	17'-4"	4.57	315	32		
15" 2'-8½" 3'-7" 2'-2" 8'-8" 5'-4" 1.44 120 19										
15"	-	3 -/	2 -2	8'-8"	5'-4"	1.44	120	19		
18"	2'-111/2"	3'-10"	2'-5"	9'-8"	6'-4"	1.72	130	20		
24"	3'-51/2"	4'-4"	2'-11"	11'-8"	8'-4"	2.36	167	22		
30"	3'-11½"	4'-10"	3'-5"	13'-8"	10'-4"	3.09	225	25		

LAST REVISION 07/01/07

≥ DESCRIPTION:

FDOT DESIGN STANDARDS