TABLE A-3 MANNING COEFFICIENT

CONDUIT MATERIAL	MANNING <u>COEFFICIENTS</u>
Closed conduits	
PVC (color white) *	.013
Cast iron pipe	.013
Concrete pipe	.013
Cast—in—place concrete pipe Corrugated metal pipe	.013
Plain	.024
Paved invert	.020
Fully paved	.013
Vitrified clay	.013
HDPE	.013
Open channels	
Lined channels	
Asphalt	.015
Concrete	.015
Rubble or riprop	.030
Vegetal	.040
Excavated or dredged	
Earth, straight and uniform	.030
Earth, winding, fairly uniform	.040
Unmaintained	.100
Natural channels (minor streams)	
Faily regular section	.050
Irregular section with pools	.100
mrogardi secucii mitti poolo	.100

(Adapted for Table XIV, ASCE Manual No. 37, 1970).

ENGINEERING D	PARTMENT		CITY OF MERCED, CA.
STOR	M DRAIN DESIGN REFERENC	E DATA	
DRAWN: KGE	APPROVED BY: / / /	DATE /	SD-23
DATE: 8/91	Nava by Julea	11/15/04	
REVISED: Aug-04	CITY ENGINEER	7/	SHEET OF