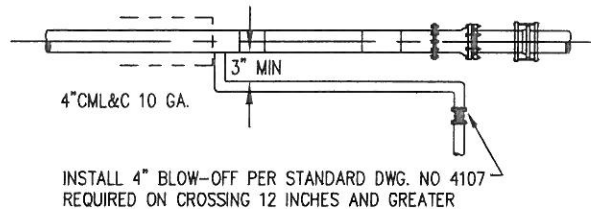



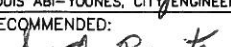
		PVC RESTRAINED LENGTH L(FT)		
		PIPE SIZE		
		8"	12"	16"
BEND ANGLE	11.25°	19	26	34
	22.5°	38	53	69
	45°	79	111	144



NOTES

1. STEEL CASING TO BE INSTALLED BY JACK AND BORE METHOD WHEN CROSSING EXISTING FACILITIES.
2. PIPE MATERIAL SHALL BE PVC FOR THE NEW MODEL COLONY (UP TO 16" IN DIAMETER) AND STEEL OR DUCTILE IRON FOR THE OLD MODEL COLONY.
3. WRAP EXPOSED COUPLINGS, RESTRAINT JOINTS AND METALLIC PARTS WITH 8 MIL POLYETHYLENE ENCASEMENT.



APPROVED BY:		11-22-10	
		44485	
LOUIS ABI-YOUNES, CITY ENGINEER		RCE	DATE
RECOMMENDED:		10/25/10	
		57875	
SCOTT BURTON, UTILITIES ENG/OPERATIONS DIRECTOR		RCE	DATE
REV	DESCRIPTION	BY	APP'D
			DATE

CITY OF ONTARIO

NMC

TYPICAL WATER CROSSING AND RESTRAINT DETAIL MORE THAN 10' IN DEPTH

STANDARD DRAWING NUMBER

4012