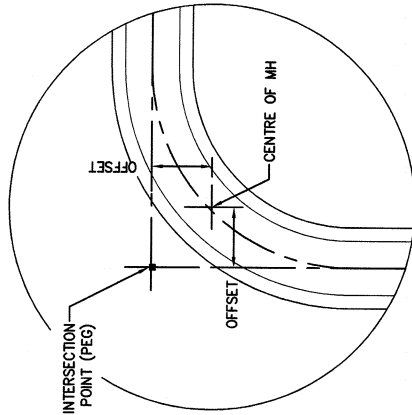
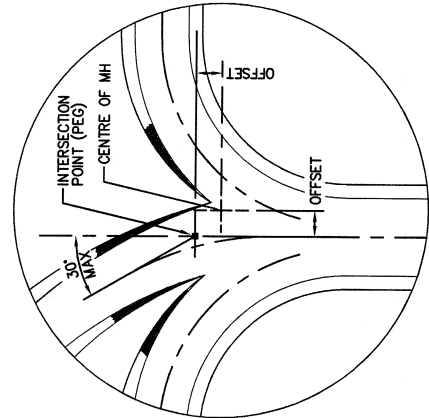
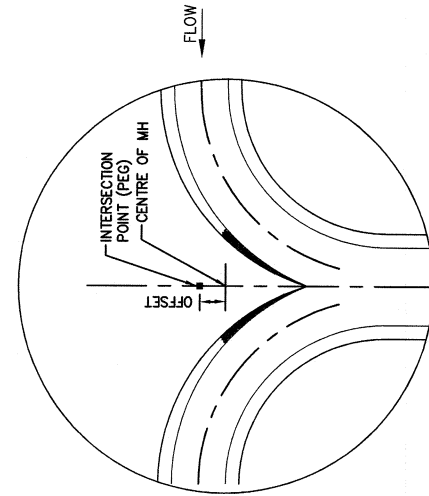




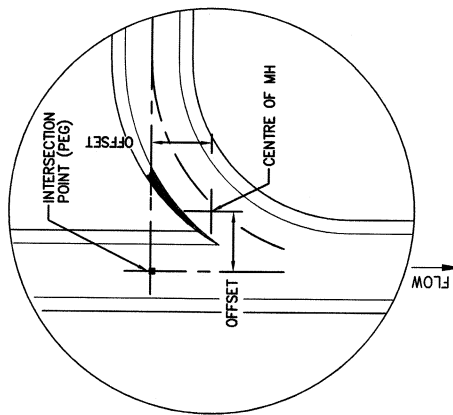
90° BEND



**LARGER MAIN LINE WITH BEND &
2 x SMALLER 90° OPPOSING INLETS**



**OPPOSING INLETS
90° OUTLET**



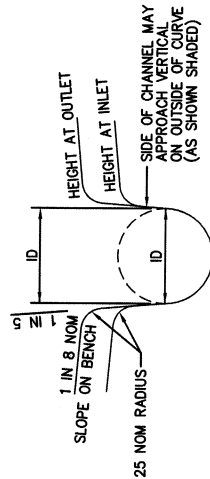
STRAIGHT THROUGH & 90° INLET

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES.
2. AREAS SHOWN  INDICATE WHERE THE SIDE OF THE CHANNEL APPROACHES VERTICAL ON OUTSIDE OF CURVE
3. CHANNELS SHOWN ARE FOR DN 150 & DN 225 PIPES IN STANDARD DN 1050 MH.
4. SHAPES ARE OPTIMUM HYDRAULICALLY, BUT MAY NOT ALLOW SOME MAINTENANCE EQUIPMENT ENTRY. MODIFY SHAPE TO SUIT MACKAY WATER & WASTE EQUIPMENT.
5. WHERE ONE OR MORE INCOMING SEWERS EXCEED 10% GRADE DESIGNER TO CONSIDER SPECIAL DESIGN SUCH AS CURVED SEWERS OR OUTLET TRANSITIONS.
6. ACUTE ANGLE ENTRY MAY BE APPROVED BY MACKAY WATER & WASTE FOR LAYOUTS OR MAY BE ACCOMMODATED BY EXTERNAL DROP JUNCTION OR DROP CHAMBER SEE A3-04219 & A3-04221.

LEGEND

-  RADIUS
 TANGENT POINT



TYPICAL CHANNEL DETAILS

MRC STANDARD DRAWINGS SUPPERCEDES WSAA STANDARD DRAWINGS

C 5/9	AMEND MCR	SLR	JC	DRAWING FILE NAME McEngineering Services\Technical Services\Design\Projects\Standard drawings\Mackay Water\WSAA MRC\SEW CODE\A3-04220B				 Mackay REGIONAL COUNCIL			
B	MAY08	MODIFIED TO MRC STD	SLR	SURVEY N/A							
A	OCT07	TSFER TO MRC TBLOCK	SLR	DATE OF LAST EDIT May 21, 2009							
0		WSSA ORIG.		LEVEL DATUM A.H.D.							
NO.	DATE	DESCRIPTION	APPVD.	MERIDIAN MGA-55		JOB No		 WATER SERVICES ASSOCIATION of Australia	EXECUTIVE MANAGER MACKAY WATER & WASTE RPEq 7506  JASON DEVITT DATE 27 MAY09	STANDARD DRAWING MAINTENANCE HOLES TYPICAL CHANNEL DETAILS	DRAWING No. A3-04220
											AMEND. C
										SHEET 1 OF 1	