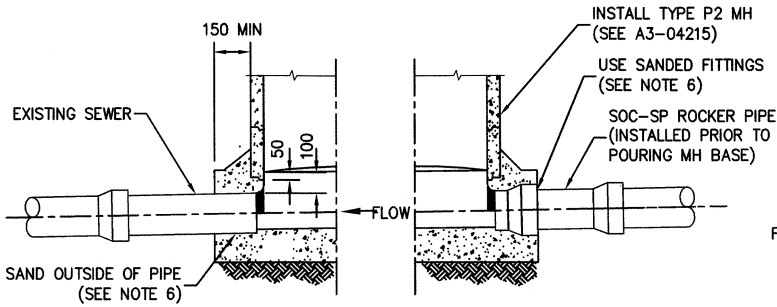
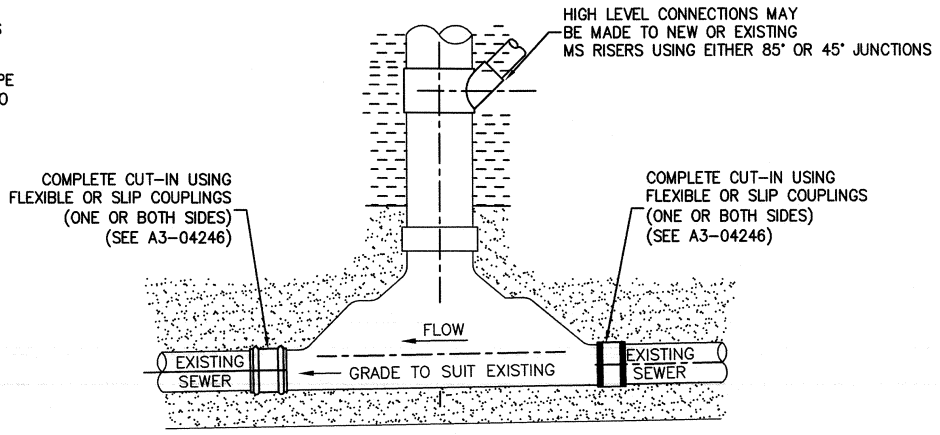


STABLE BASE REACTIVE BASE

CONSTRUCTION OF MAINTENANCE HOLE OVER EXISTING SEWER



ELEVATION

INSERTING MAINTENANCE SHAFTS INTO EXISTING SEWERS

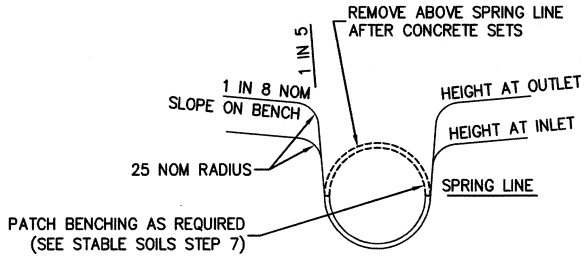
INSTALLATION PROCEDURE FOR MH

IN STABLE SOILS

1. WHERE NECESSARY ESTABLISH A TEMPORARY BY-PASS SYSTEM.
2. DIG 200 DEEP UNDER AND AROUND EXISTING SEWER TO PROVIDE A BASE APPROX 1 700 IN DIAMETER.
3. FOR PVC OR GRP PIPE CLEAN AND ABRADE EXTERNAL PIPE SURFACE AND COAT WITH RESIN/SOLVENT AND SAND.
4. POUR CONCRETE TO 150 ABOVE TOP OF PIPE.
5. INSTALL FIRST SECTION OF PRE-CAST SHAFT SECTIONS (SEE A3-04248)
6. FORM GULLET TO SPRING LINE OF PIPE AND FULL LENGTH OF INSIDE OF MH.
7. WHEN CONCRETE IS SET, CUT OR BREAK OUT THE TOP HALF OF THE EXISTING SEWER FOR THE FULL LENGTH INSIDE THE MH.
8. PATCH BENCHING/PIPE SECTIONS TO REMOVE SHARP OBSTRUCTIONS, GAPS ETC USING 2:1 SAND:CEMENT MORTAR.
9. COMPLETE THE REMAINDER OF MH IN ACCORDANCE WITH A3-04215.

IN REACTIVE SOILS (SOIL BEARING PRESSURE <100 kPa)

1. WHERE NECESSARY ESTABLISH A TEMPORARY BY-PASS SYSTEM.
2. USING THE SYSTEMS SHOWN ON A3-04246 AND A3-04247 INSERT PIPE SECTIONS AND SET UP RRJ SOCKET STUB PIPES AND ROCKER PIPES EACH END OF THE PROPOSED MH LOCATION SO THAT THE SOCKET ENDS ARE LOCATED ADJACENT TO OUTSIDE FACE OF CONCRETE SEE A3-04217.
3. COMPLETE INSTALLATION OF MH IN ACCORDANCE WITH STEPS 2 TO 9 ABOVE.



CHANNEL DETAILS

NOTES:

1. WRITTEN APPROVAL FROM COUNCIL IS REQUIRED FOR MAINTENANCE SHAFTS. (B)
2. ALL DIMENSIONS IN MILLIMETRES
3. CARRY OUT INSTALLATION OF MAINTENANCE STRUCTURES ONLY AT PERIODS OF LOW SEWAGE FLOW OR WHEN BYPASSING SEWAGE FLOWS.
4. FOR MH IN SEWERS INSTALLED ON SLOPES >16% LAY TWIN DRAINAGE PIPES THROUGH THE CONCRETE BASE IN ACCORDANCE WITH A3-04213B.
5. PLACE EMBEDMENT UNDER AND AROUND ALL INSTALLED MS, SURROUNDING PIPES AND COUPLINGS. COMPACT TO MAINTAIN GRADE AND MIMIMISE SETTLEMENT.
6. FOR PVC OR GRP PIPE OR FITTINGS TO BE CAST INTO BASE, COAT WITH RESIN/SOLVENT & SAND OR ABRADED TO ENSURE BONDING.
7. FOR INTERNAL DROP SYSTEM SEE A3-04221B .

MRC STANDARD DRAWINGS SUPERCEDES WSAA STANDARD DRAWINGS

NO.	DATE	DESCRIPTION	APPVD.
D	5/5	AMEND MGR SIGN.	JC
C	MAY08	MODIFIED TO MRC STD	SLR
B	NOV07	1. NOTE ADDED	NR
A	OCT07	T'SFER TO MRC TBLOCK	SLR
0		WSSA ORIG.	

DRAWING FILE NAME: M:\Engineering Services\Technical Services\Design\Projects\Standard drawings\Mackay Water\WSAA MRC\SEW CODE\A3-04248C

SURVEY N/A

SURVEY FILE No N/A

LEVEL DATUM A.H.D.

MERIDIAN MGA-55

DATE OF LAST EDIT: May 21, 2009

JOB No

WSAA NO. SEW-1502

WATER SERVICES ASSOCIATION of Australia

COMMERCIAL SERVICES

EXECUTIVE MANAGER
MACKAY WATER & WASTE
RPEQ 7506

27 MAY09
JASON DEVITT DATE

Mackay REGIONAL COUNCIL

STANDARD DRAWING
INSERTIONS & REPAIR SYSTEMS
MAINTENANCE STRUCTURES

DRAWING No. A3-04248

AMEND. D

SHEET 1 OF 1