



E/S AMND MGR SKN. JC

NO.	DATE	DESCRIPTION	APPVD.	MERIDIAN	MGA-55	JOB NO
D	MAY08	MODIFIED TO MRC STD	SLR			
C	AUG07	NOTE ADDED TO 1.	NR			
B	NOV07	1-2 NOTES ADDED	NR			
A	OCT07	T'FER TO MRC TBLOCK	SLR			
0		WSAA ORIG				

WSAA NO.	SEW-1300
DATE OF LAST EDIT	April 07, 2009
LEVEL DATUM	A.H.D.
MERIDIAN	MGA-55
JOB NO	

EXECUTIVE MANAGER	MACKAY WATER SERVICES	RPEQ 7506
DATE	27/5/09	JASON DEWITT

COMMERCIAL SERVICES	STANDARD DRAWING	MACKAY REGIONAL COUNCIL
MAINTENANCE HOLES	SEWERS < DN 300	DRAWING NO. A3-04215
PRECAST TYPES P1 & P2		AMEND. E
		SHEET 1 OF 1

**NOTES:**

1. STEP IRONS ARE NOT PERMITTED. SEE SECTION 6.6.8 ABOVE. CYLINDRICAL MH'S ARE TO BE USED IN LIEU OF TAPER TOP. MAINTENANCE HOLE NECK SHALL NOT EXCEED 400mm.
2. MH CONCRETE COVERS CANNOT BE USED WITHOUT WRITTEN APPROVAL FROM COUNCIL.
3. ALL DIMENSIONS IN MILLIMETRES.
4. PROVIDE ROUNDED NOSING ON INLET AND OUTLET PIPE TO PREVENT DAMAGE TO JETTING EQUIPMENT AND CCTV GUIDES AND CABLES.
5. CONSTRUCTION MAY BE A COMBINATION OF PRECAST AND IN-SITU TO SUIT APPLICATION (MACKAY WATER & WASTE AUTHORISATION REQUIRED).
6. LOCATION OF FIRST SHAFT SECTION:
  - a) FIRST SHAFT SECTION TO BE BETWEEN 300-600 LONG TO ALLOW FORMING OF CHANNEL AND BENCH.
  - b) PRIME COMPONENT 200 FROM BOTTOM WITH GEMENT SLURRY. EMBED SHAFT SECTION 50 INTO NET CONCRETE BUILT UP OUTSIDE FILLET TO 150.
7. MAKE-UP RINGS:
  - a) USE MINIMUM OF ONE MAKE-UP RING (PREFERABLY 100 OR 150) PER MH DURING CONSTRUCTION TO ALLOW FOR FUTURE SURFACE ADJUSTMENT WITHOUT AFFECTING THE 344-04223 FORM. TAPERED MAKE UP RING ON SLOPING GROUND.
  - b) BACKFILL AROUND MH.
  - c) THE METHOD OF BACKFILL AND COMPACTION MUST BE GENERALLY AS FOR PIPE EMBEDMENT.
  - d) TAKE CARE TO RAISE SELECT FILL EQUALLY ALL AROUND THE MH TO AVOID UNBALANCED LATERAL LOADING.
8. CONCRETE BASE TO BE SPECIAL CLASS.
  - a) IN WATER CHARGED GROUND OR WHERE THERE IS SIGNIFICANT RISK OF SURCHARGE USE ONLY CAST IN-SITU MH.
  - b) FOR PIPE CONNECTIONS TO MH SEE A3-04217.
9. WHERE THERE IS SIGNIFICANT RISK OF INFILTRATION OR TREE ROOT INTRUSION APPLY AN EXTERNAL BITUMASTIC SEAL TAPE 150 WIDE OVER A COAT OF MANUFACTURERS RECOMMENDED PRIME SEAL TO ALL JOINTS.
10. FOR MH COVER CLASS SELECTION AND FINISHED LEVELS SEE A3-04223.
11. MAINTENANCE HOLES <math>\le 3400</math> = 1050#  
MAINTENANCE HOLES >math>3500</math> = 1500#

MRC STANDARD DRAWINGS SUPERCEDES WSAA STANDARD DRAWINGS