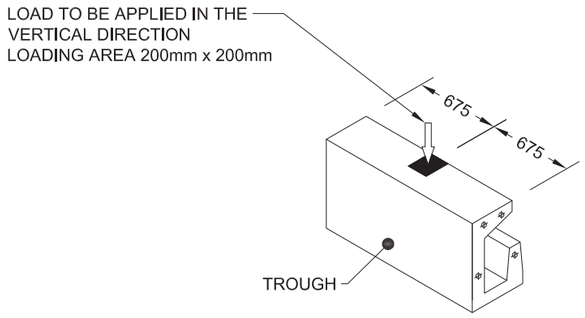
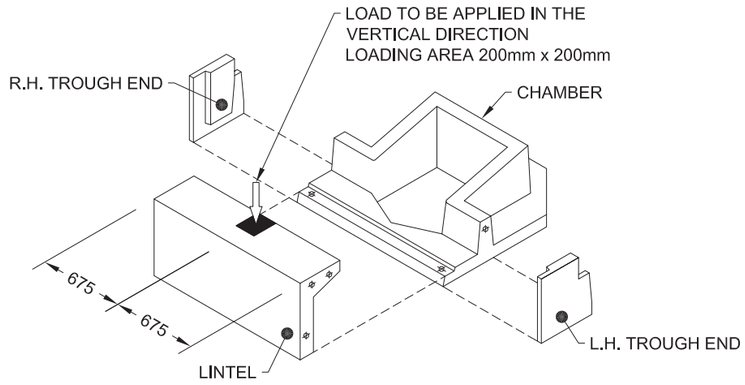
COMPONENT	CHAMBER	LINTEL	TROUGH
PROOF LOAD	90 kN	50 kN	50 kN
ULTIMATE LOAD	135 kN	75 kN	75 kN

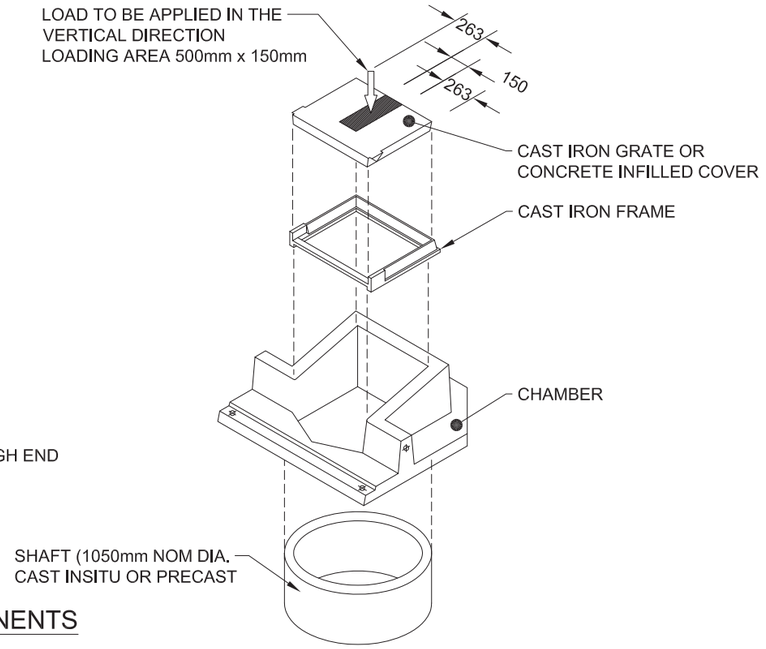
LOADING CRITERIA
TABLE A



TROUGH TEST



LINTEL TEST



CHAMBER TEST

TEST LOCATION FOR THE LOAD TESTING OF COMPONENTS

ALL DIMENSIONS IN MILLIMETRES

NOTES

1. INSPECTION
   ALL MATERIALS, PROCESSES OF MANUFACTURE, AND FINISHED COMPONENTS SHALL BE LIABLE TO INSPECTION AND APPROVAL BY THE PURCHASER

2. LOAD TESTING REQUIREMENTS
   PROOF LOAD TEST. FROM EACH TWENTY COMPONENTS, WHICH SHALL BE CALLED A BATCH AND SUITABLY IDENTIFIED, THE PURCHASER MAY SELECT ONE COMPONENT OF EACH TYPE FOR PROOF LOAD TESTING. WHEN SO TESTED, EVERY COMPONENT SHALL SUSTAIN THE LOAD GIVEN IN TABLE A WITHOUT DEVELOPING A TEST CRACK GREATER THAN THAT DEFINED IN NOTE 3, AND ON REMOVAL OF THE LOAD, NO CRACK CAUSED BY THE LOAD SHALL BE GREATER THAN THAT DEFINED IN NOTE 4

3. A TEST CRACK IS DEFINED AS ONE INTO WHICH THE POINT OF A TEST-CRACK MEASURING GAUGE CONFORMING TO THE DETAILS GIVEN IN FIGURE B2(A) OF AS1597.1 MAY BE INSERTED TO A DEPTH OF 2MM OVER A LENGTH OF AT LEAST 300MM AT INTERVALS NOT EXCEEDING 50MM

4. A RESIDUAL TEST CRACK IS DEFINED AS ONE INTO WHICH THE POINT OF A RESIDUAL TEST-CRACK MEASURING GAUGE CONFORMING TO THE DETAILS GIVEN IN FIGURE B2(B) OF AS1597.1 MAY BE INSERTED TO A DEPTH OF 2MM OVER A LENGTH OF AT LEAST 300MM AT INTERVALS NOT EXCEEDING 50MM

5. ULTIMATE LOAD TEST.
   FROM EACH BATCH, THE PURCHASER MAY SELECT ONE COMPONENT OF EACH TYPE FOR ULTIMATE LOAD TESTING. WHEN SO TESTED, EVERY COMPONENT SHALL SUSTAIN THE LOAD GIVEN IN TABLE A

6. RETESTS
   LOAD TEST. SHOULD ANY COMPONENT FAIL TO MEET THE LOAD TEST REQUIREMENTS, THE PURCHASER SHALL SELECT TWO FURTHER COMPONENTS FROM THE BATCH REPRESENTED BY THE COMPONENT THAT FAILED. THESE COMPONENTS SHALL BE SUBJECTED TO THE PROOF LOAD TEST (NOTE 2) OR THE ULTIMATE LOAD TEST (NOTE 5) OR BOTH TESTS, AS SPECIFIED BY THE PURCHASER. IF THE BATCH OF COMPONENTS MEET THE LOAD TEST REQUIREMENT(S), THE BATCH SHALL BE DEEMED TO COMPLY WITH THE TEST REQUIREMENT(S). IF ONE OF THE RETEST COMPONENTS FAILS, THE PURCHASER MAY REJECT THE BATCH OR MAY REQUEST THAT EVERY COMPONENT IN THE BATCH BE SUBJECT TO THE PROOF LOAD TEST

7. ACCEPTANCE
   ALL COMPONENTS REPRESENTED BY THE COMPONENTS THAT HAVE BEEN TESTED AND FOUND TO COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN SHALL BE ACCEPTED SUBJECT TO FINAL INSPECTION IN ACCORDANCE WITH NOTE 1. COMPONENTS WHICH HAVE BEEN SUBJECTED TO THE ULTIMATE LOAD TEST MAY BE ACCEPTED FOR USE BY THE PURCHASER PROVIDED THEY COMPLY IN ALL RESPECTS WITH THIS STANDARD DRAWING

8. APPARATUS
   THE FOLLOWING APPARATUS IS REQUIRED :-
   a) TESTING MACHINE A MACHINE CAPABLE OF APPLYING TO A COMPONENT THE FORCES SPECIFIED IN TABLE A WITHOUT UNDUE DEFORMATION OR YIELDING OF THE MACHINE. THE MACHINE SHALL BE MOUNTED OVER A SAND-BED COMPLYING WITH THE REQUIREMENTS OF PARAGRAPH (E) BELOW

   b) LOAD-MEASURING DEVICE THE TESTING MACHINE SHALL BE FITTED WITH A LOAD-MEASURING DEVICE CAPABLE OF INDICATING THE APPLIED LOAD TO WITHIN ± 2 PER CENT OF THE CORRECT LOAD WITHIN THE RANGE OF USE. THE DEVICE SHALL HAVE BEEN CALIBRATED WITHIN 1 YEAR BY AN INDEPENDENT AUTHORITY ACCEPTABLE TO THE PURCHASER, AND THE CALIBRATION CERTIFICATE SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PURCHASER ON REQUEST

   c) BEARING BLOCKS HARDWOOD BEARING BLOCKS SHALL BE 500MM LONG, 150MM WIDE AND 100MM DEEP; AND 200MM LONG, 200MM WIDE AND 100MM DEEP

   d) RUBBER PADS RUBBER PADS SHALL HAVE THE SAME PLAN AREA AS THE BEARING BLOCK AND SHALL BE 10-20MM THICK OF SHORE DUROMETER HARDNESS 45-55

   e) BED A SAND-BED OF SUFFICIENT AREA TO ACCOMMODATE THE COMPONENT. THE TOP AND BOTTOM SURFACES OF THE SAND-BED SHALL BE LEVEL AND THE SAND SHALL BE NOT LESS THE 75MM DEEP. ALTERNATIVELY A CONCRETE SLAB BED MAY BE USED

   f) CRACK MEASURING GAUGES LEAF GAUGES OF THE DIMENSIONS SHOWN IN FIGURE B2 OF AS1597.1

9. LOCATING COMPONENT IN TESTING MACHINE
   THE TEST COMPONENTS SHALL BE POSITIONED ON THE BED WITH THE COMPONENT SECTIONS PROPERLY ASSEMBLED AS IN SERVICE, OR PROVIDED WITH RESTRAINTS AS DESCRIBED BELOW. A BED OF MORTAR NOT MORE THAN 5MM THICK OR A BITUMINOUS FELT MEMBRANE MAY BE USED TO PROTECT THE BEARING SURFACES OF THE COMPONENT DURING THE APPLICATION OF THE TEST LOAD. THE ORIENTATION AND POSITION OF THE COMPONENT UNDER THE LOADING BEAM OF THE TESTING MACHINE SHALL BE APPROPRIATE TO THE LOADING CONDITIONS SPECIFIED IN NOTE 10

10. APPLICATION OF TEST LOAD
    THE TEST LOAD SHALL BE APPLIED VERTICALLY TO THE COMPONENT THROUGH A WOODEN BEARING BLOCK AND RUBBER PAD, WITH THE LOADING BEAM AND BEARING BLOCK PARALLEL WITH A VERTICAL PLANE THROUGH THE LONGITUDINAL AXIS OF THE COMPONENT. THE POSITION OF THE LOAD ON THE COMPONENT SHALL BE AS SHOWN ON THIS STANDARD DRAWING. FOR PROOF LOAD TESTING THE LOAD SHALL BE INCREASED UNIFORMLY SO THAT THE SPECIFIED VALUE IS REACHED IN 5 MINUTES. WHILE SUBJECTED TO THE PROOF LOAD THE COMPONENT SHALL BE EXAMINED FOR CRACKS WHICH, IF PRESENT, SHALL BE CHECKED BY MEANS OF THE CRACK MEASURING GAUGE. THE LOAD SHALL THEN BE RELEASED AND THE COMPONENT AGAIN EXAMINED TO CHECK WHETHER ALL TEST CRACKS HAVE CLOSED. THE ULTIMATE TEST LOAD SHALL BE APPLIED AT THE SAME UNIFORM RATE AS THE PROOF LOAD UNTIL THE COMPONENT SUSTAINS THE SPECIFIED ULTIMATE LOAD

C	03/18	MINOR MODIFICATIONS	Graeme Hawes
B	27/1/15	REVISED FORMAT AND TITLEBLOCK	
A		ORIGINAL ISSUE	
	DATE	DESCRIPTION	APPVD

AMENDMENTS AND REVISIONS

\STANDARD DRAWINGS\STORMWATER\A3-03887

SURVEY

SURVEY FILE No

LEVEL DATUM

MERIDIAN

DRAWN	SIGNED	DATE
DESIGNED	SIGNED	DATE
CHECKED	SIGNED	DATE 01/3/07

MANAGER TECHNICAL SERVICES
ORIGINAL SIGNED BY G. HAWES RPEQ 5693 — 26/7/07 DATE

DIRECTOR
ENGINEERING AND
COMMERCIAL INFRASTRUCTURE

ORIGINAL SIGNED BY S. M. HOLLEY
JASON DEVITT

DATE 28/7/07

Mackay REGIONAL COUNCIL

STANDARD
PRECAST STORMWATER INLET TEST LOAD PROCEDURE

SHEET 1 OF 1

WORKS JOB No.

DRAWING No. A3-03887

AMEND. C