

PRE CAST ROOF

2x WATER SEAL

STEP IRONS

FLOW

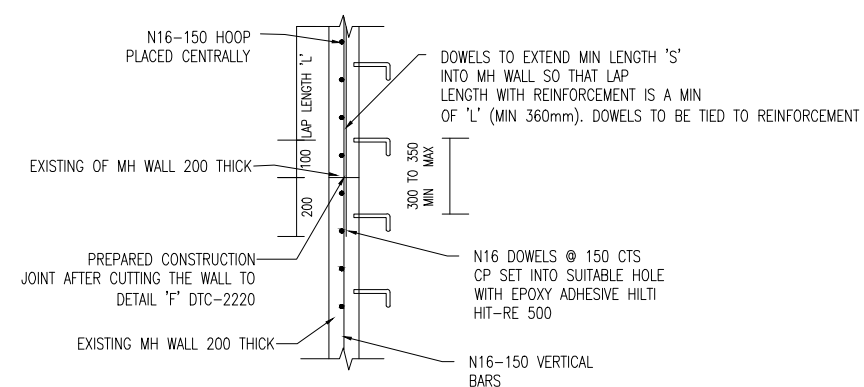
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FLOW

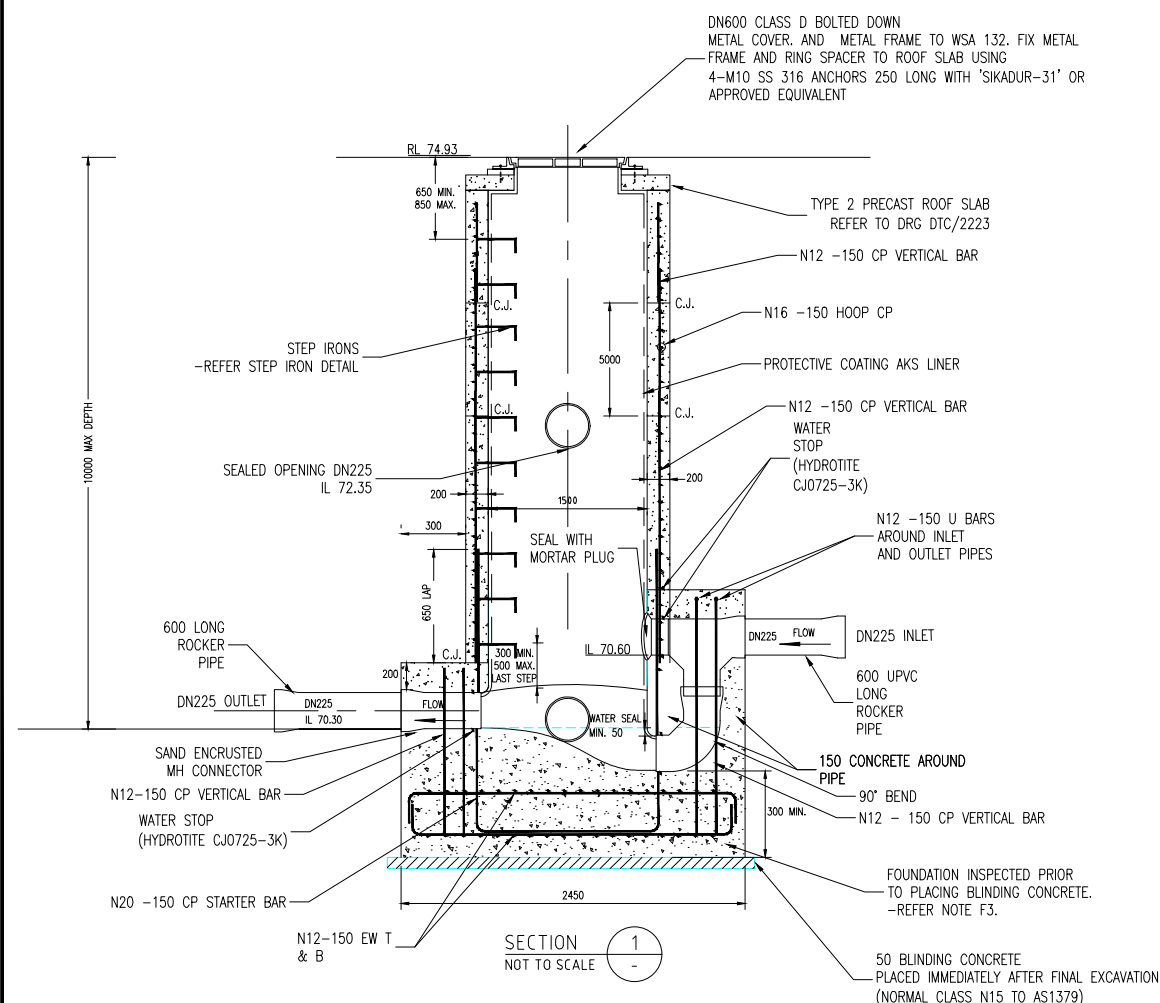
SCHEMATIC WATER SEALED MH PLAN
(NOT TO SCALE)

STRUCTURAL NOTES:

1. DEPTH OF MH DID NOT EXCEED 10.0m MEASURED FROM TOP OF THE LID TO INVERT OF THE MH
2. THIS DESIGN IS SUITABLE FOR TRAFFICABLE AND NON TRAFFICABLE AREAS
3. MINIMUM ALLOWABLE BEARING PRESSURE FOR MH WAS 250kPa (FOR 10m DEEP MH AND 100kPa FOR MH<= 6m DEEP)
4. CONCRETE EXPOSURE CLASSIFICATION D (AS 3735)
5. FORMWORK AND CONCRETE FINISHES COMPLETED IN ACCORDANCE WITH AS 3610 SURFACE EXPOSED TO VIEW - CLASS 2, SURFACE NOT EXPOSED TO VIEW - CLASS 4
6. CONCRETE ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 25MPa PRIOR TO STRIPPING OF FORMWORK
7. CONCRETE DIMENSIONS SHOWN DID NOT INCLUDE THICKNESS OF APPLIED FINISHES
8. CONCRETE WAS SPECIAL CLASS SCC40 TO WSA 114-2002 (MINIMUM F_c AT 28 DAYS TO BE 40MPa)
9. CLEAR COVER TO REINFORCEMENT WAS 60mm (AS 3735 TABLE 4.3 RIGID FORMWORK AND INTENSE COMPACTION USED)
10. CURING OF ALL CONCRETE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS, POLYETHYLENE SHEETING OR WET HESSIAN MAY BE USED. POLYETHYLENE AND HESSIAN ADEQUATELY SECURED TO RESIST WIND AND TRAFFIC FORCES. ALTERNATIVE CURING WAS ACHIEVED BY APPLYING SIKATOL WB CURING COMPOUND OR APPROVED EQUIVALENT TO ALL SURFACES IN ACCORDANCE WITH THE MANUFACTURE REQUIREMENTS FOR A PERIOD OF 14 DAYS
11. CONCRETE ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 32MPa PRIOR TO BACKFILLING OF STRUCTURES. BACKFILL PLACED AND COMPACTED EVENLY AROUND MAINTENANCE HOLES IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS
12. STEEL REINFORCING MATERIAL WAS TO AS/ZS 4671 SHAPE=D, STRENGTH GRADE = 500MPa, DUCTILITY CLASS = N
13. WELDING OF REINFORCEMENT WAS NOT PERMITTED
14. ALL DIMENSIONS IN mm UNO
15. DIMENSIONS NOT TO BE SCALED OFF THE PLAN
16. MAX LENGTH OF LAP PROPOSED IS 5000
17. ALL INTERNAL SURFACES, INCLUDING THE UNDERSIDE OF THE ROOF SLAB, WALLS, SPACER RING, BUT EXCLUDING BENCHES AND CHANNEL ADEQUATELY PROTECTED CONFIRMING TO WSA 201 MANUAL FOR SELECTION AND APPLICATION OF PROTECTIVE COATING INCLUDING SWC'S SUPPLEMENT, PROTECTION TO CONSIST OF AKS LINER WHICH IS A HDPE LINER. APPLICATION AND SURFACE PREPARATION DONE TO MANUFACTURER'S RECOMMENDATION. CONTACT DETAILS AND QUALIFICATION OF PERSONNEL APPLYING AND WELDING THE LINER SENT TO THE WSC PRIOR TO UNDERTAKING ANY LINING OF THE MH'S AND ESPECIALLY FOR THE WELDING OF THE LINER. CONSTRUCTOR RESPONSIBLE TO PROVIDE QA DOCUMENTATION FOR THE APPLICATION OF THE LINER AS PER WSA-201. THIS QA DOCUMENTATION WILL FORM PART OF THE FINAL PCP DOCUMENTATION TO WSC



The diagram illustrates the extension of a wall and roof slab. It shows a cross-section of an existing wall and roof slab, with a new extension added. The extension length of the wall is indicated by a dimension line. The original location of the roof slab is shown with a dashed line. The step iron detail is referenced to DTC-2220. The diagram also shows the existing surface and the P.F.S.L. (Proposed Foundation/Slab Level).



Technical drawing showing the installation of a step iron into a wall. The drawing includes a cross-section of the wall and a side view of the step iron.

Cross-section view (left):

- Shows a wall with a hole.
- Dimensions: 150mm (hole width), 75mm (gap for epoxy), 90mm (gap for step iron).
- Labels: "CORED DN30 HOLES IN WALL AND FIXED STEP IRONS WITH EPOXY ADHESIVE", "HIL TI HIT -RE 500 OR CHEMSET RE0502 OR APPROVED EQUIVALENT", "ALLOW EPOXY ADHESIVE TO SEAL CONCRETE - LINING INTERFACE", "PROTECTIVE COATING AKS LINED".

Side view (right):

- Shows the step iron with a U-shaped profile.
- Dimensions: 150mm (width), 200mm (height), 300mm (total height).
- Label: "STEP IRON".

STEP IRON SET OUT DETAIL (NOT TO SCALE)

STEP IRON FIXING DETAIL (NOT TO SCALE)

Diagram illustrating Construction Joint Detail 'F' (DTC-2220). The detail shows a vertical section of a concrete wall with reinforcement bars extending through the joint. The joint is scabbled to a depth of 3mm and cleaned with a wire brush. The surface is saturated with water and the excess is removed before placing concrete. The diagram labels the 'EARTH FACE' and 'INTERNAL FACE' of the wall. Dimensions of 250 are indicated for the vertical extent of the joint preparation on both faces.

REINFORCEMENT
CONTINUOUS
THROUGH JOINT.

SCABBLED JOINT TO
EXPOSE AGGREGATE
TO 3mm DEPTH
AND WIRE BRUSH
CLEANED PRIOR TO
FORMING. SATURATED
SURFACE WITH
WATER AND
REMOVED EXCESS
IMMEDIATELY PRIOR
TO PLACING
CONCRETE

EARTH FACE

INTERNAL FACE

250

250

CONSTRUCTION JOINT DETAIL 'F' DTC-2220
(NOT TO SCALE)

MAINTENANCE STRUCTURE	INVERT LEVEL	EXISTING SURFACE LEVEL	PROPOSED FINISHED SURFACE LEVEL	HEIGHT DIFFERENCE	EXTENSION LENGTH 'W'	DOWEL EXTENSION	LAP LENGTH 'S' WITH REO 'S'	WALL THICKNESS
REINFORCED CONCRETE MH 'A'	66.54 (OUTLET)	71.15	74.32	3.17 (+ve)	3.17	3.37	3.07	0.2
REINFORCED CONCRETE MH 'B'	66.83 (OUTLET)	71.63	74.75	3.12 (+ve)	3.12	3.32	3.02	0.2
REINFORCED CONCRETE MH 'C'	67.89 (OUTLET)	74.92	76.16	1.24 (+ve)	1.24	1.44	0.94	0.2
REINFORCED CONCRETE MH 'D'	69.14 (OUTLET)	76.64	76.26	0.38 (-ve)	0.30	0.40	0.20	0.2
REINFORCED CONCRETE MH 'E'	69.92 (OUTLET)	76.12	77.20	1.08 (+ve)	1.08	1.28	0.98	0.2
REINFORCED CONCRETE MH 'F'	69.90 (OUTLET)	74.27	74.41	1.04 (+ve)	0.14	0.34	0.04	0.2
REINFORCED CONCRETE MH 'G'	69.37 (OUTLET)	74.90	75.16	0.26 (+ve)	0.26	0.46	0.16	0.2

WORK AS CONSTRUCTED CERTIFICATION DEVELOPER W.S.C. CONSTRUCTOR COMPLETED W.A.C. PREPARED		Sydney WATER Case No. 201349WW SHT 7 OF 8 SHTS.	
DESIGNER I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	