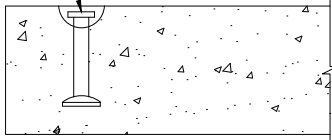


REID SWIFT LIFT FOOT ANCHOR CAST
IN 2.5t SWL COMPLETE WITH RUBBER
RECESS FORMER OR APPROVED EQUIVALENT



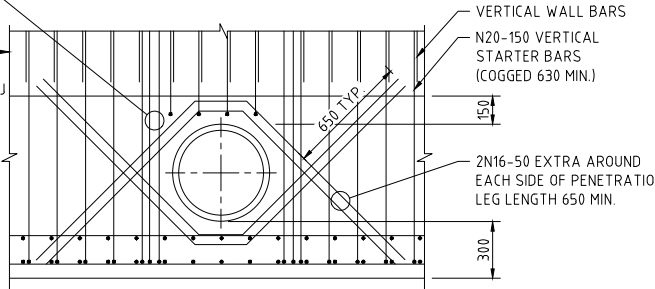
DETAIL "A"
PRECAST ROOF CASTING DETAIL
SCALE 1:10

NOTES:

- PR1. PRECAST CONCRETE ROOF PANEL TO HAVE A MINIMUM
CONCRETE STRENGTH OF 25MPa AT LIFTING.
PR2. SPREADER BARS MUST BE USED DURING LIFTING TO ENSURE
LIFT FORCE IS VERTICAL.
PR3. LIFTING ANCHORS AND EXTRA REINFORCEMENT AROUND
ANCHORS TO BE DESIGNED BY LIFTING CONTRACTOR.

2N20-50 EXTRA VERTICAL
EACH SIDE OF PENETRATION

HOOP BARS IN WALL
AND BASE NOT
SHOWN FOR CLARITY



BASE SLAB REINFORCEMENT
N12-150 EW T & B

DETAIL "C"
PENETRATION DETAIL IN BASE SLAB – SECTION THROUGH SHAFT WALL
SCALE 1:20

SCABBLE JOINT TO EXPOSE
AGGREGATE TO 3mm DEPTH AND WIRE
BRUSH CLEAN PRIOR TO FORMING.
SATURATE SURFACE WITH WATER
AND REMOVE EXCESS IMMEDIATELY
PRIOR TO PLACING CONCRETE

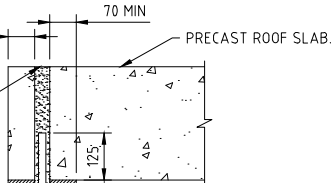
REINFORCEMENT CONTINUOUS
THROUGH JOINT

DETAIL "E"
CONSTRUCTION JOINT DETAIL
SCALE 1:10

CAST Ø40 HOLE FULL DEPTH OF ROOF
SLAB. REFER TO DTC/2201, DTC/2223 AND
NOTE 2 FOR LOCATIONS. FILL HOLE WITH
'SIKADUR-31' OR APPROVED EQUIVALENT
AFTER FIXING OF ROOF SLAB.

10 THICK EPOXY MORTAR 'SIKADUR - 31'
OR APPROVED EQUIVALENT. SCABBLE &
PRIME SURFACES WITH 'SIKADUR-32' OR
APPROVED EQUIVALENT

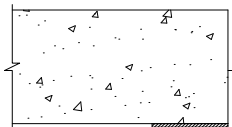
CAST-INSITU SHAFT WALL



Ø25 HOLE IN WALL. REFER TO DTC/2201,
DTC/2223 AND NOTE 2 FOR LOCATIONS.

N20 DOWEL BAR FIXED INTO WALL WITH
EPOXY ADHESIVE HILTI HIT-RE 500 OR
APPROVED EQUIVALENT. REFER TO DTC/2201,
DTC/2223 AND NOTE 2 FOR LOCATIONS.

DETAIL "B"
PRECAST ROOF CONNECTION DETAIL
SCALE 1:10



HYDROTITE CJ-0725-3K (25x7mm)
HYDROPHILIC SEAL OR
APPROVED EQUIVALENT

SCABBLE CORED SURFACE TO EXPOSE
AGGREGATES TO A DEPTH OF 3mm.
PRIME SURFACE WITH SIKADUR 32
OR APPROVED EQUIVALENT.
INJECT ANNULUS WITH SIKADUR-31
EPOXY OR APPROVED EQUIVALENT

1500 MIN. CLEARANCE TO VENTILATION
SHAFT BASE BLOCK. REFER TO DTC-2300
FOR VENTILATION SHAFT DETAILS.

150
MAX

'L'

FALL

PVC-U SN8 VENT ROCKER PIPE.
REFER TABLE 1

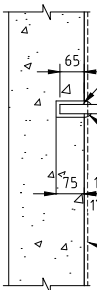
COAT SURFACE OF PVC-U PIPE WITH
SOLVENT CEMENT & SAND AFTER CLEANING
WITH PRIMING FLUID. DO NOT APPLY
SAND COATING AT LOCATION OF
HYDROPHILIC SEAL

DETAIL "D"
VENT PIPE PENETRATION DETAIL
SCALE 1:10

TABLE 1			
SIZE (DN)	"L" MIN	"L" MAX	CORE Ø
150	300	450	200
225	450	675	300
300 (REFER NOTE V1)	600	900	300

NOTES:

- V1. DN300 VENT PIPE OPTION IS TO BE INSTALLED VIA DN225
PENETRATION DETAIL, WITH DN225/DN300 TAPER BETWEEN
ROCKER PIPE AND PIPE THROUGH WALL (NOT SHOWN)

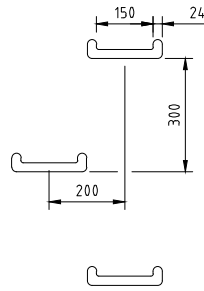


CORE DN30 HOLES IN WALL AND
FIX STEP IRON WITH EPOXY ADHESIVE
HILTI HIT-RE 500 OR CHEMSET RE0502
OR APPROVED EQUIVALENT

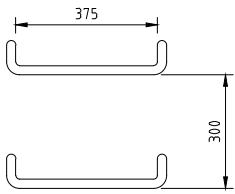
WHERE PROTECTIVE LINING IS APPLIED
TO INTERNAL SURFACE ALLOW EPOXY ADHESIVE
TO SEAL CONCRETE - LINING INTERFACE

PROTECTIVE COATING
TO WSA 201 AND SYDNEY WATER
SUPPLEMENT WHERE REQUIRED

DETAIL "F"
STEP IRON FIXING DETAIL
SCALE 1:10



DETAIL "G"
SINGLE-WIDTH STEP IRON SET OUT DETAIL
SCALE 1:10



DETAIL "H"
DOUBLE-WIDTH STEP IRON SET OUT DETAIL
SCALE 1:10

THIS DRAWING MAY ONLY BE USED IN THE COURSE OF AND FOR THE PURPOSE OF CREATING SYDNEY WATER ASSETS
USE THIS DRAWING WITH CARE. THE USER IS RESPONSIBLE FOR THE CORRECT APPLICATION OF THIS DRAWING.
DEEMED TO COMPLY DRAWINGS ARE SUBJECT TO TERMS AND CONDITIONS OF USE AS PUBLISHED BY SYDNEY WATER.

NOTES

- REINFORCEMENT NOT SHOWN FOR CLARITY UNLESS SHOWN OTHERWISE.
- CONFIRM LOCATION OF REINFORCEMENT BARS PRIOR TO DRILLING OF ANCHOR HOLES TO AVOID
CLASHING WITH THE REINFORCEMENT BARS AND ENSURE ALL ANCHORS DO NOT HAVE CONTACT
WITH THE REINFORCEMENT.

REFERENCE DRAWINGS

DTC/2000	MAINTENANCE HOLES – CAST IN-SITU CONSTRUCTION NOTES
DTC/2201	DN1800 MAINTENANCE HOLES CAST IN-SITU REINFORCED CONCRETE SEWERS DN500 – DN750 DEPTH TO INVERT 1.6m TO 10m
DTC/2223	DN1200 MAINTENANCE HOLES ROOF SLAB DESIGN
DTC/2300	VENTILATION SHAFTS STAINLESS STEEL 9-18m HEIGHT SHEET 1

Sydney
WATER

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APPROVED

NORBERT SCHAEFER
ENGINEERING MODERNISATION MANAGER

ENGINEERING & TECHNICAL SUPPORT

E	GENERAL UPDATE	NS	31/07/24
D	REVISED PRECAST RING SPACER DETAIL. REVISED VENT PENETRATION DETAIL. GENERAL REVISION	RL	18/03/15
C	UPDATED NOTES, PRODUCT SPECIFICATIONS	RL	01/03/13
B	GENERAL REVISION (DETAIL E)	RL	29/03/12
A	ORIGINAL ISSUE	PJG	31/01/12
LETTER	DETAILS OF ISSUE / AMENDMENT	APP'D	DATE

DEEMED TO COMPLY DRAWINGS

MAINTENANCE HOLES
DETAILS
SHEET 1

DTC

2220

ISSUE

E

DATE

31/07/24