

TO EXISTING CONCRETE BASE BLOCK

SCALE - 1:15

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. 4-020 HOLES EVENLY SPACED AROUND PLATE (150 IN FROM EDGE)TO FACILITATE GROUTING. FILL WITH GROUT TO TOP OF CUT BACK ANCHOR STUD AS REQUIRED EXISTING VENTSHAFT TUBE TO BE CUT 100 ABOVE CONCRETE SURFACE & SLEEVED INTO NEW VENTSHAFT. IF REQUIRED, CUT SLIT IN EXISTING SHAFT TO FACILITATE INSTALLATION EXISTING VENTSHAFT T-IRONS CUT BACK TO 50 BELOW CONCRETE SURFACE AND VOID FILLED WITH

GRADE 316 S.S. NUT, WASHER & LOCK NUT GRADE 316 S.S. NUT & WASHER BELOW BASEPLATE FOR LEVELLING DURING INSTALLATION – 4 MINIMUM EVENLY FILL UNDER BASEPLATE WITH 25-50 THICK "SIKADUR-42 MP" NORMAL GROUT OR APPROVED EQUIVALENT PRIOR TO GROUTING THE BASE PLATE. CONCRETE SURFACE TO BE HIGH PRESSURE CLEANED AT 1500 P.S.I. WITH WATER TO REMOVE ALL LAITANCE & DEBRIS. FIX BASE PLATE TO EXISTING CONCRETE BASE WITH "HILTI HIT-RE 500 OR RAMSET CHEMSET RE0502 INJECTION MORTAR, OR APPROVED EQUIVALENT. AND GRADE 316 STAINLESS STEEL ANCHOR STUDS 380 LONG TO ASTM A276 TABLE 1 - MINIMUM BASEBLOCK DIMENSIONS 1200 1500 DN150

GUSSET PLATE WELDING OF BASEPLATE GUSSET PLATES & VENT PIPE TO BE IN ACCORDANCE WITH DRAWING No. DTC-2300 BASE PLATE - 20 x 45° DN150. DN225 - 240 DN300 - 215

TABLE 2 – BASEPLATE DIMENSIONS						
VENTSHAFT	BASEPLATE	BASEPLATE	PITCH CIRCLE	NUMBER OF	DIAMETER OF	ANCHOR
DIAMETER	ID	0D	DIAMETER	ANCHOR	BOLT HOLES	STUD SIZE
			(PCD)	STUDS	**	
DN150	168	675	600	8	20	M16
DN225	273	775	700	12	24	M20
DN300	324	115	/00	12	24	1 1120

** BOLT HOLE DIAMETER IS FOR THE CONCRETE & THE BASEPLATE

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING No. DTC/2300 (SHEETS 1 & 2)

NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 2. A SITE SPECIFIC RISK ASSESSMENT SHALL BE UNDERTAKEN TO DETERMINE IF ADDITIONAL CONTROL MEASURES (SUCH AS EARTHING, BONDING, INSULATION ETC) ARE REQUIRED FOR ELECTRICAL HAZARDS ASSOCIATED WITH LIGHTNING STRIKE OF THE VENT SHAFT.

DN225

DN300

1900

2200

1200

1400

- 3. PRIOR TO INSTALLING REPLACEMENT VENTSHAFT, THE CONTRACTOR SHALL UNDERTAKE A CONDITION ASSESSMENT OF THE EXISTING CONCRETE BASE TO CONFIRM THE FOLLOWING:

 a. THE CONCRETE BASE SHALL BE FREE OF ANY DEFECTS OR SIGNS OF DISTRESS SUCH AS
- CRACKING OF MORE THAN 100MM IN LENGTH, OR SPALLING, SCALING, SOFTENING, DRUMMINESS, ETC. OF MORE THAN 25MM DEEP.
- THERE IS NO EXPOSED REINFORCEMENT. SETTLEMENT OR TILTING OF EXISTING BASE DOES NOT EXCEED THE LEAST DIMENSION OF THE BASE DIVIDED BY 100.
- d. DIMENSIONS OF THE BASE COMPLIES WITH TABLE 1.
- 4. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION TO THE PRINCIPAL PRIOR TO ANY REPLACEMENT WORKS CONFIRMING SUITABILITY IN TERMS OF CONDITION AND DIMENSIONS. OR OTHERWISE, OF THE EXISTING CONCRETE BASE. THE CONTRACTOR IS RESPONSIBLE FOR THE
- 5. ANCHORS SHALL BE ALLOWED TO CURE FOR A MINIMUM OF 48 HOURS PRIOR TO ATTACHING
- 6. STAINLESS STEEL BASE PLATE AND GUSSET PLATES SHALL BE GRADE 316L TO ASTM A240M. BEAD BLASTING FOR MATT-FINISH SHALL BE AS PER DTC/2300.
- 7. ALL WELDING OF STAINLESS STEEL SHALL BE IN ACCORDANCE WITH AS/NZS 1554.6.
- 8. ALL PROPIETARY ITEMS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTUERES SPECIFICATION.
- 9 HOLD DOWN NUTS SHALL BE TIGHTENED USING A TORQUE WRENCH IN THE TIGHTENING SEQUENCE BELOW. SEQUENCE SHALL COMPLETED FIRST FOR 50% AND REPEATED FOR 100% OF FINAL TIGHTENING TORQUE, FINAL TIGHTENING TORQUE SHALL BE 55N.m FOR M16 AND 100N.m FOR M20.





8 & 12 BOLT TIGHTENING SEQUENCE

Sydney WAT&R
© COPYRIGHT
STATE OF NEW SOUTH WALES THROUGH SYDNE WATER CORPORATION. ALL RIGHTS RESERVED

APPROVED PETER GILLMAN MANAGER - E & ES **ENGINEERING & ENVIRONMENTAL SERVICES**

APPLICABLE HEIGHT RANGE AMENDED 16/04/1 01/03/1 DRAWING NO. CHANGED, GENERAL REVISION RL 21/12/12 ORIGINAL ISSUE PJG DETAILS OF ISSUE / AMENDMENT APP'D DATE

DEEMED TO COMPLY DRAWINGS

VENTILATION SHAFT REPLACEMENT STAINLESS STEEL 9-18m HEIGHT DN150 - DN300

DTC 2302

ISSUE DATE 16.04.13