GENERAL NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.

- 2. THIS SET OF STANDARD ALUMINIUM ACCESS COVER AND HANDRAILS DRAWINGS ARE TO BE USED AS A GUIDE ONLY FOR THE MANUFACTURE AND FABRICATION OF ALUMINIUM COVERS AND FRAMES OVER WET-WELLS AND VALVE CHAMBERS WHERE APPLICABLE. THESE DRAWINGS SHALL COMMUNICATE THE INTENT AND FUNCTION, AND ARE NOT FABRICATION OR CONSTRUCTION DRAWINGS. ALL MEASUREMENTS ARE INDICATIVE ONLY. THE MANUFACTURER IS RESPONSIBLE FOR THE FULL STRUCTURAL DESIGN OF ALL COMPONENTS WITH FULL RPEQ CERTIFICATION.
- 3. EACH COVER AND FRAME SHALL BE DESIGNED TO SUIT INDIVIDUAL SITE CONDITIONS AND STRUCTURAL COMPONENTS. LOCKING AND SEAL ARRANGEMENTS MAY VARY TO SUIT THE DESIGN OF THE MANUFACTURER / FABRICATOR, HOWEVER THE GENERAL PRINCIPLES AND FUNCTION SHALL BE AS DETAILED IN THESE DRAWINGS.
- 4. THE STRUCTURAL COMPONENTS ON THESE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE STRUCTURAL DESIGN ACTIONS OF AS/N7S1170.
- 5. ACCESS COVERS IN NON-TRAFFICABLE LOCATIONS AND SUBJECT TO PEDESTRIAN LOADS ONLY, SHALL BE DESIGNED FOR CLASS A LOADINGS AS SPECIFIED IN AS3996 SECTION 3. IF THE ACCESS COVER IS SUPPORTED BY A SAFETY GRATES, THE SAFETY GRATES SHALL BE DESIGNED FOR CLASS A LOADING AS SPECIFIED IN AS3996 SECTION 3.
- 6. SAFETY GRATES SHALL BE DESIGNED FOR PLATFORM LOADINGS IN ACCORDANCE WITH AS1657 UNLESS NOTED OTHERWISE.
- 7. HANDRAILS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AS1657.
- 8. FOR A HINGED COVER OR GRATE THE MAXIMUM LIFTING WEIGHT AT EACH LIFTING POINT SHALL NOT BE GREATER THAN 16kg.
- 9. COVERS MUST BE DESIGNED SUCH THAT THEIR TOTAL LIFTING WEIGHT (W1) DOES NOT EXCEED 16kg, UNLESS APPROVED OTHERWISE BE THE PRINCIPAL
- 10. COVERS WITH A TOTAL LIFTING WEIGHT (W_l) GREATER THAN 16kg, SHALL BE DESIGNED FOR A TWO PERSON LIFT AND THE TOP OF THE COVER SHALL BE MARKED WITH AN ETCHED PLATE STATING 'OVER 16kg'.
- 11. THE UNDERSIDE OF THE COVERS SHALL BE MARKED WITH AN ETCHED PLATE, STATING THE MANUFACTURER'S NAME OR REGISTERED TRADEMARK, AND MONTH AND YEAR OF MANUFACTURE. THE ETCHED PLATE SHALL BE LOCATED AS TO AVOID CONFLICTS WITH LOAD BEARING MEMBERS
- 12. SWITCHBOARD (WHEN ITS DOOR IS OPEN) AND HANDRAILS (WHEN ITS GATE IS OPEN) MUST HAVE A MINIMUM CLEARANCE OF 600mm.
- 13. THE ACCESS COVER OPENING TYPE AND HANDRAIL ARRANGEMENT TYPE SHALL BE SPECIFIED IN THE PROJECT DRAWING. THE SPECIFIED TYPES SHALL ALLOW FOR THE SAFE REMOVAL OF PUMPS AND COMPONENTS WITHIN THE WET-WELL AND VALVE CHAMBER AS PER THE MANUFACTURER'S RECOMMENDATIONS, AND HEALTH AND SAFETY GUIDELINES.
- 14. ACCESS COVERS LOCATED WITHIN PEDESTRIAN WALKWAYS (e.g. FOOTPATHS) THAT DO NOT HAVE A HANDRAIL AROUND THE PERIMETER SHALL BE DESIGNED WITH A FLUSH COVER IN ACCORDANCE WITH AS3996 SECTION 3.3 AND WET WELLS DRG No. S.D.221-07.
- 15. PRIOR TO APPLICATION OF SIKAFLEX TANK AND SIKAFLEX PRO (OR APPROVED EQUIVALENT), CONCRETE SURFACE UNDERNEATH EXTERNAL FRAME OF WET-WELL AND UP TO 50mm AWAY FROM EXTERNAL FRAME, MUST BE SCRUBBED CLEAN AND GRINDED BEFORE FILLING ALL VOIDS WITH EPOXY MORTAR, AND RENDERED SMOOTH SUCH THAT ANY IRREGULARITIES ON THE THE CONCRETE SURFACE ARE NOT MORE THAN 5mm.

MATERIAL NOTES

- 1. ALL ALUMINIUM COMPONENTS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AS/NZS 1664.
- 2. ALL ALUMINIUM SHALL BE MARINE GRADE TO AS1734.
- 3. ALUMINIUM SHALL ONLY BE ANODIZED IF SPECIFIED BY THE PRINCIPAL.
- 4. ALL STAINLESS STEEL USED SHALL BE GRADE 316.
- 5. ALL STAINLESS STEEL NUTS AND BOLTS TO BE ASSEMBLED WITH AN ANTI-GALLING COMPOUND 'DURALAC' OR APPROVED EQUIVALENT.
- 6. ALUMINIUM AND STAINLESS STEEL SHALL NOT BE ALLOWED TO COME IN CONTACT WITH EACH OTHER UNLESS ADEQUATELY INSULATED WITH APPROVED SEALANTS, GASKETS, WASHERS AND SLEEVES.
- 7. ALL ACCESS COVERS SHALL HAVE THEIR TOP SURFACES COVERED WITH A GREEN COLOURED 'EPIREZ SAFE STEP 550' EXPOXY ANTI-SLIP COATING OR APPROVED EQUIVALENT
- 8. WHERE ALUMINIUM IS IN CONTACT WITH CONCRETE, THE ALUMINIUM SHALL BE PAINTED WITH A MINIMUM TWO COATS OF BITUMINOUS PAINT OR APPROVED EQUIVALENT.
- 9. REPLACEABLE SEALS SHALL BE PROVIDED ON THE UNDERSIDE OF THE WET WELL COVERS TO PROVIDE A FULL ODOUR/GAS TIGHT SEAL. USE SPECIFIED SEAL OR PRINCIPAL APPROVED EQUIVALENT.
- 10. ALL ALUMINIUM WELDING TO COMPLY WITH AS/NZS1665 AND ISO18273.

В	DRAWING TITLE AND INDEX AMENDED. GENERAL REVISION	CAH	07.22
A	ORIGINAL ISSUE	CAH	06.22
ISSUE	AMENDMENT DETAILS	INITIALS	DATE



DESIGN UNIT COUNCIL OFFICES TUMBULGUM ROAD

MURWILLUMBAH, NEW SOUTH WALES 02 66 tsc@t PHONE EMAIL WEBSITE

2484		
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tweed.nsw.gov.au		

S.D.221-06	6	WET-WELL ACCESS COVE
S.D.221-07	7	WET-WELL ACCESS COVE
S.D.221-08	8	VALVE CHAMBER ACCESS
S.D.221-09	9	VALVE CHAMBER ACCESS
S.D.221-10	10	HANDRAILS AND TOEBOA
S.D.221-11	11	MISCELLANEOUS DETAILS
S.D.221-12	12	MISCELLANEOUS DETAILS
LIFTING WEIGHT (TION
BE DETERMINED AS FOLI	LOWS.	HINGED LOVER SHALL
WHERE:		
W _l = THE TOTAL ((REFER GENER	COVER LIFTIN RAL NOTES	NG WEIGHT (kg) 8, 9 & 10)
Wc = THE TOTAL (COVER WEIGI	HT (DEAD WEIGHT) (kg)
$L_{c} = THE LENGTH$	OF THE CO	VER (m)
Π - ΤΗΕ ΠΙΣΤΔΝΓ	Ε ΤΩ ΤΗΕ Ι	IFTING POINT (m)

SHEET No.

1

2

3

4

5

DRAWING No.

S.D.221-01

S.D.221-02

S.D.221-03

S.D.221-04

S.D.221-05

- kg)
- V_{L} = THE LIFT VERTICAL HEIGHT, 1.2m TYPICAL
- H_{L} = THE LIFT HORIZONTAL OFFSET FROM THE HINGE, 0.2m TYPICAL



DESIGN ENGINEER

W.W.U. MANAGER

RAWN

SCALE

		SHEET No. 1
Alter JUNE 2022	SEWERAGE WORKS STANDARDS	DRAWING NUMBER: S.D.221-01
INFRASTRUCTURE DELIVERY UNIT - DESIGN	DRAWING TITLE: PUMP STATIONS ACCESS SYSTEMS DRAWING INDEX, NOTES AND LEGEND	JUNE 2022
	ACAD FILE NO: G:L_AAA TSC STANDARD DRAWINGS/200 SEWERAGE WORKSIDRAFTS-DONT USEIS.D.221-01 (July-22 Rev B).dwg	

DRAWING INDEX
DRAWING TITLE
PUMP STATION ACCESS COVERS - DRAWING INDEX, NOTES AND LEGEND
WET-WELL ACCESS COVERS OPENING OPTIONS
VALVE CHAMBER ACCESS COVERS OPENING OPTIONS
WET-WELL HANDRAILS ARRANGEMENT OPTIONS
WET-WELL ACCESS COVERS WITH HANDRAILS GENERAL ARRANGEMENT PLANS
WET-WELL ACCESS COVERS WITH HANDRAILS DETAILS
WET-WELL ACCESS COVERS SUPPORTED BY SAFETY GRATE DETAILS
VALVE CHAMBER ACCESS COVERS GENERAL ARRANGEMENT PLANS
VALVE CHAMBER ACCESS COVERS AND SAFETY GRATE DETAILS
HANDRAILS AND TOEBOARDS DETAILS
MISCELLANEOUS DETAILS - 1 OF 2
MISCELLANEOUS DETAILS - 2 OF 2



1. DETAILS HAVE NUMBERS. SECTIONS HAVE LETTERS.

3. \times USE A DASH WHEN SHOWN ON THE SAME SHEET