HYDRAULIC SERVICES 32 QUEEN STREET MOSMAN, NSW 2088

LEGEND

ABBREVIATIONS		SYMBOLS		SYMBOLS	
AAV	AIR ADMITTANCE VALVE		COLD WATER POINT	Ø	FLOOR WASTE/RAINWATER OUTLET
AB AC	ACCESSIBLE BASIN AIR CONDITIONING		HOT WATER POINT		STORMWATER PIT (WITH COVER)
AV AWC	AIR RELEASE VALVE ACCESSIBLE TOILET (WATER CLOSET)	 II	CONTINUATION SYMBOL (CONTINUATION OF SERVICE NOT SHOWN)		,
B BG	BASIN BOX GUTTER	3	CAPPED OFF SERVICE	_	STORMWATER PIT (WITH GRATE)
BT BTH	BOUNDARY TRAP BATH	 ə	DROPPER		SQUARE RAINWATER OUTLET
BWU CAC	BOILING WATER UNIT CIRCULAR ACCESS CHAMBER		RISER		SEWER MANHOLE (CAC)
CIC	CAST IRON CAST IN COLUMN		DIRECTION OF FLOW IN PIPE		KERB INLET PIT
CIS CO	CAST IN SLAB CLEAR OUT		FLANGE CONNECTION	Ø	FIRE HYDRANT
CS Cu	CLEANERS SINK COPPER	凶	BALANCING VALVE (STAD)	,	
CW DI	COLD WATER DUCTILE IRON	۵	TUNDISH	- (STORMWATER HEADWALL
DP DST	DOWN PIPE DRAINAGE STACK	⋈	ISOLATION VALVE	шщо	SPREADER
DTU DW	DRAINAGE TURN-UP DISHWASHER	M	FLEXIBLE CONNECTION		FIRE HOSEREEL
DWG EJ	DRAWING EXPANSION JOINT	▶	PUMP METER	Ø - 3 - Ø	STANDPIPE FIRE HYDRANT
Ex FFL	EXISTING FINISHED FLOOR LEVEL	T	TEMPERATURE GAUGE	¤	BOUNDARY TRAP
FH FHR	FIRE HYDRANT FIRE HOSE REEL	e e	PRESSURE GAUGE		
FP FW	FLUSHING POINT FLOOR WASTE	27	BACKFLOW PREVENTION DEVICE	≪	AIR ADMITTANCE VALVE
GBP GFW	GAS BAYONET POINT GARBAGE FLOOR WASTE	₽.	TWO WAY VALVE		
GMS GVP	GALVANISED MILD STEEL GREASE VENT PIPE	₩	THREE WAY VALVE	LINETYPES	
GW HDC	GLASS WASH HEAVY DUTY COVER	₩	FLOAT VALVE		SEWER DRAINAGE/SANITARY
HDG HL	HEAVY DUTY GRATE HIGH LEVEL		AIR RELEASE VALVE		PLUMBING VENT PIPE
HT HW	HOSE TAP HOT WATER	N	CHECK VALVE (WATER SERVICE)	— SRM	SEWER RISING MAIN
HWR HWU	HOT WATER RETURN HOT WATER UNIT		REFLUX VALVE (DRAINAGE)		STORMWATER RISING MAIN
IL IM	INVERT LEVEL ICE MACHINE	⊠ √7 X	FILTER		STORMWATER DRAINAGE
IPMF KIP	INDUCT PIPE MICA FLAP KERB INLET PIT		VENTED GAS REGULATOR		TRADE WASTE DRAINAGE
KFW KO	KITCHEN FLOOR WASTE KEY OPERATED	∠	ELECTRICAL CONTROL PANEL OVERFLOW RELIEF GULLY/YARD GULLY		SUBSOIL DRAINAGE
LDC LDG	LIGHT DUTY COVER LIGHT DUTY GRATE	<u>⊠</u> ⊗	SV IN PATH BOX		SUBSOIL RISING MAIN
LL LT	LOW LEVEL LAUNDRY TUB	₩	GAS REGULATOR		COLD WATER SERVICE
LTG NG	LONGITUDINAL TRENCH GRATE NATURAL GAS	▶	PRESSURE REDUCING VALVE		HOT WATER FLOW
NTS O/F	NOT TO SCALE OVERFLOW	— ⊠	PRESSURE LIMITING VALVE		HOT WATER RETURN
ORG P	OVERFLOW RELIEF GULLY PENETRATION		SOLENOID VALVE		GAS SERVICE
PFW PLRO	PLANTROOM FLOOR WASTE PLANTER RAINWATER OUTLET	×	STRAINER		FIRE HOSE REEL SERVICE
PLV PRO	PRESSURE LIMITING VALVE PARAPET RAINWATER OUTLET		DIRECTIONAL ARROW		FIRE HYDRANT SERVICE
PRV RC	PRESSURE REDUCING VALVE REFRIGERATION CABINET	OF	OVERLAND FLOW PATH		WARM WATER FLOW
RGB RL	RECESSED GAS BAYONET POINT REDUCED LEVEL) (PENETRATION		WARM WATER RETURN
RO RPZD	RAINWATER OUTLET REDUCED PRESSURE ZONE DEVICE		— DIRECTION OF FLOW		FIRE SPRINKLER SERVICE
RST RTD	RECESSED STOP TAP RECESSED TUNDISH		— SERVICE — SIZE		IRRIGATION SERVICE
RV RWH	RELIEF VENT RAINWATER HEAD	LHX)	CONTINUED ON DWG HX		RECYCLED WATER ELECTRICAL CONDUIT
S SHR	SINK SHOWER		CONTINUED ON DWGTIX	e	EXISTING SERVICE
SMH SPR SPM	SEWER MANHOLE SPRINKLER SERVICE SEWER RISING MAIN			— <u>X</u> — e X — e —	EXISTING SERVICE TO BE
SRM SST	SEWER RISING MAIN SOIL STACK				REDUNDANT
ST STW	STOP TAP STORMWATER STOR VALVE (ISOLATION VALVE)				
SV SWP SWRM	STOP VALVE (ISOLATION VALVE) STORMWATER PIT STORMWATER RISING MAIN				
TD TG	TUNDISH TRENCH GRATE				\ \ }

STORMWATER NOTES

- 1. CONFIRM LOCATION, SIZE, CONDITION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF
- 2. ALL WORK TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES REQUIREMENTS, BCA AND RELEVANT AUSTRALIAN STANDARDS (IN PARTICULARLY AS 3500)
- 3. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DOCUMENTS. ALL DISCREPANCIES SHALL BE REFERRED TO THE PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
- 4. LOCATION OF ALL DOWNPIPES, PITS AND PIPEWORK IS DIGRAMMATIC ONLY FINAL LOCATION TO BE CO-ORDINATED DURING CONSTRUCTION CERTIFICATE DOCUMENTATION.
- 5. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND OF THE BEST QUALITY AND TYPE AVAILABLE TO CONFORM WITH THE RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK AND WATERMARK.
- 6. MAKE ALL APPLICATIONS TO LOCAL COUNCIL. PAY ALL FEES AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS AS REQUIRED BY THE AUTHORITIES.
- 7. PIPEWORK UP TO 225mm DIAMETER SHALL BE UPVC DRAINAGE WASTE GRADE WITH SOLVENT WELDED JOINTS.

HANDLE-

PLACEMENT:

DOWNSTREAM.

OUTLET PIPE BEHIND

TRASH SCREEN TO PROTECT THE ORIFICE & -

STAINLESS STEEL OR GALVANISED MESH SCREEN

SCREEN MUST BE PLACED SO THAT THE LONG AXIS OF

THE OVAL SHAPED HOLES ARE HORIZONTAL WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING

DETAIL: REMOVABLE TRASH SCREEN

DOWNSTREAM DRAINAGE SYSTEM.

(MAXIMESH RH 3030 OR EQUIVALENT)

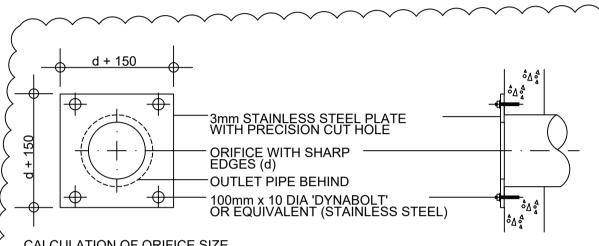
- 8. PIPEWORK SHALL BE LAID AT 1:100 MINIMUM GRADE UNLESS NOTED OTHERWISE. PIPEWORK MAY BE LAID AT STEEPER GRADES AS REQUIRED TO MEET COVER REQUIREMENTS OR AS NOMINATED BY PIPEWORK INVERT LEVELS.
- SUBSOIL PIPEWORK SHALL BE INSTALLED AS REQUIRED, INCLUDING BEHIND ALL RETAINING STRUCTURES, PLANTERS AND WHERE GROUND WATER IS ENCOUNTED. SHALL BE 90mm SLOTTED UPVC PIPE WRAPPED IN CLOTH SOCK AND SURROUNDED WITH 150mm THICKNESS OF 20mm DIAMETER BLUE METAL AND SURROUNDED IN GEOTEXTILE FABRIC.
- 10. ALL EXTERNAL LEVELS TO FALL AWAY FROM BUILDING. BUILDER TO ENSURE THRESHOLD REQUIREMENTS. OVERLAND FLOW PATHS TO BE MAINTAINED AROUND BUILDING TO PREVENT WATER INGRESS.
- 11. ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS TO BE EQUIPPED WITH DEDICATED OUTLET. WATERPROOFING MEMBRANE, DRAINAGE CELL AND GEOFABRIC.
- 12. SUBSOIL, UPLIFT PRESSURE, VERTICAL WALL DRAINAGE AND PIT CONSTRUCTION DETAILS TO BE CONFIRMED / CO-ORDINATED WITH STRUCTURAL AND GEOTECHNICAL ENGINEERS DURING CONSTRUCTION STAGE OF THE PROPOSED DEVELOPMENT.
- 13. ALL BALCONIES TO BE PROVIDED WITH SAFETY OVERFLOWS (FINAL LOCATION OF OVERFLOWS TO BE CONFIRMED BY ARCHITECT).

DRAWING SCHEDULE

DWG No	DESCRIPTION
H01	COVER SHEET, CALCULATIONS & DETAILS
H02	EROSION CONTROL PLAN
H03	GROUND & LOWER GROUND FLOOR DRAINAGE
H04	LEVEL 1 & LEVEL 2 / ROOF DRAINAGE

OSD & RAINWATER TANK CALCULATIONS

ALL IN ACCORDANCE WITH MOSMAN COUNCIL'S STORMWATER REQUIREMENTS. 1429m² **EXISTING SITE IMPERVIOUS AREA:** 445.8m² PROPOSED SITE IMPERVIOUS AREA: 722.2m² PERMISSIBLE SITE DISCHARGE (1:5YR): 35.38 L/sec ON-SITE DETENTION REQUIRED (1:20YR): RAINWATER TANK WITH 6.015L MINIMUM EFFECTIVE VOLUME AS

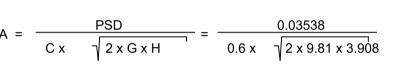


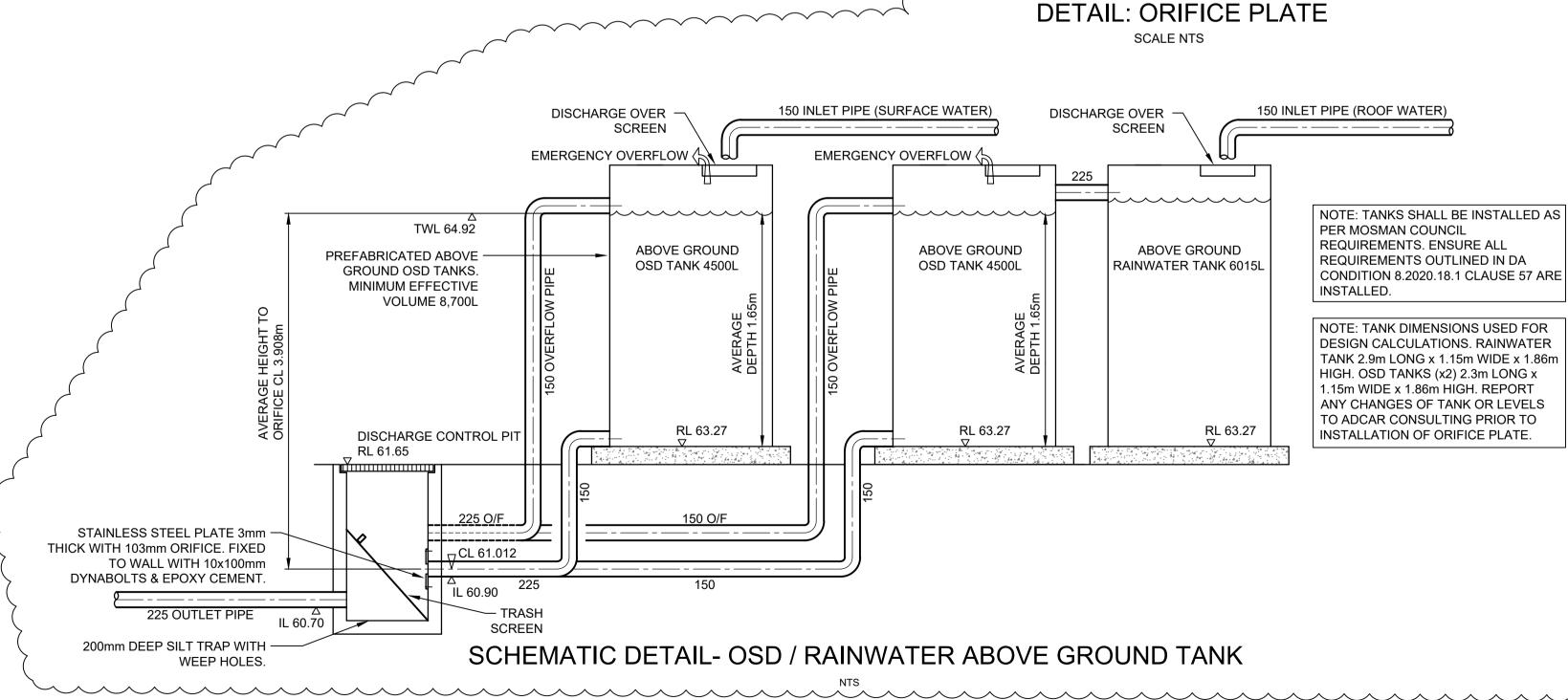
CALCULATION OF ORIFICE SIZE

PSD = PERMISSABLE SITE DISCHARGE IN [m3/s] A = CROSSECTIONAL AREA OF ORIFICE PLATE IN [m2] C = DISCHARGE CO-OEFFICIENT (O.6 FOR ORIFICE PLATE) G = ACCELERATION DUE TO GRAVITY = 9.81 [m/s] H = MAX. HEIGHT / HEAD OF WATER ABOVE THE CENTRE

PER BASIX REQUIREMENTS.

LINE OF THE ORIFICE PLATE IN [m] D = ORIFICE DIAMETER IN [mm]





The contractor is responsible for checking all dimensions and site conditions prior to commencing any work. Do not scale drawings, refer to figured dimensions only. Any discrepancies shall immediately be referred to ADCAR Consulting pty ltd for clarification. All drawings, plans and specifications are the property of

ADCAR Consulting pty Itd and must not be used, reproduced or

copied wholly or in part without the written permission of ADCAR

TRENCH GRATE

TRAPPED TUNDISH

TOP OF KERB

TTD

Consulting pty ltd.

THERMOSTATIC MIXING VALVE

TERRACE RAINWATER OUTLET

TRADE WASTE VENT PIPE

30.05.2022 ISSUED FOR SECT 34 ISSUED FOR SECT 4.55 14.12.2021 02.03.2021 ISSUED FOR CC DATE

ARCHITECTURE URBANEIA /53 HUME STREET CROWS NEST NSW 2065

ABN 50169207818 M. CHEHELNABI REGD. ARCH. NO. 70

T: 02 80948420 M: 0404 110 316 & 0403 900 235

ARCHITECT

MR CHRIS AND MRS LAEKIN ROSE

YDRAULIC CONSULTANT

ADCAR CONSULTING PO Box 204 Avoca Beach NSW 2251

Tel 0404 498 695 Email info@adcar.com.au Web www.adcar.com.au Hydraulic & Fire Consultants ABN 12 152 581 587

RESIDENTIAL ALTERATIONS | HYDRAULIC SERVICES & ADDITIONS **32 QUEEN STREET** MOSMAN, NSW

COVER, CALCULATIONS AND DETAILS

