

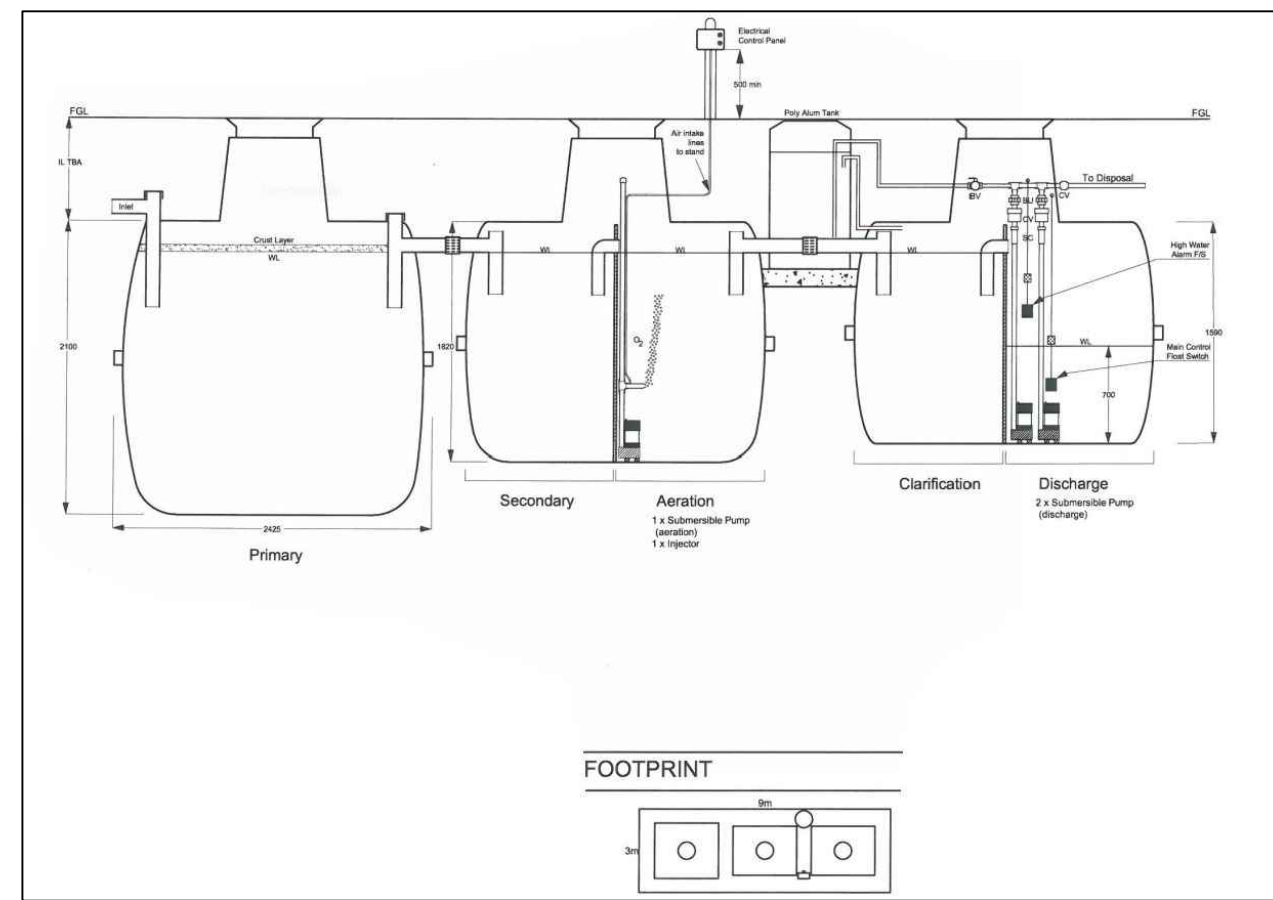
PROPOSED FLOOR PLAN
SEWER & TRADE WASTE

ATU SIZING

AS PER WESTERN AUSTRALIA HEALTH REGULATIONS 1974

Type of Premises	Shop	User Type	Number of Person	Combined Flow L/person/day	Total L/Day
Commercial	T1 Supermarket	Staff	5 Staff x 2 Shifts	30	300
		Non-Showering Customers	Total = 100	150	1500
	T2 Cafe	Customer	4	30	280
		Sit in Customer	50	30	1,500
T3 Hair	Customer	3	30	230	
	(Allowance for Hair Wash / Shampoo)	40	15	600	
Commercial Shops	T4 Pizza	Customer	4	30	280
		Allowance for Cleaning of equipment	-	-	300
	T5 Butcher	Staff	3	30	230
Commercial	T6 Liquor	Staff	2 Staff x 2 Shifts	30	300
		Non-Showering	Total = 4	30	120
	T7 Post Office	Staff	3	30	90
		Total			6,290 L/Day

TOTAL LOAD ON HYDRAULIC SYSTEM = 6,290 LITRES OF DISCHARGE PER DAY
ATU TO BE SPECIFIED = AQUARIUS 0-2NR 8KL P COMMERCIAL ATU CAPABLE OF TREATING UP TO 8,000L OF DISCHARGE PER DAY



LEACH DRAIN SIZING

GEOTECHNICAL REPORT NOT RECEIVED AT AS YET - WE WILL THEREFORE ASSUME LOAMY SOIL WITH A DESIGN LOADING RATE OF 30MM/DAY TO SIZE THE SYSTEM

LEACH DRAIN SELECTED FOR USE - AQUACELL 16 FLATBED LEACH DRAINS WITH INFILTRATIVE AREA OF 2M²/H

LENGTH OF LEACH DRAINS = DISCHARGE RATE PER DAY/INFILTRATIVE RATE PER DAY/INFILTRATIVE RATE OF PROPOSED LEACH DRAIN

LENGTH OF LEACH DRAINS = 6290 / 30 / 2 = 105M

ATU SPECIFICATION

AQUARIUS 0-2NR 8KL (OR EQUAL APPROVED) FULLY AUTOMATIC COMMERCIAL AERATION TREATMENT UNIT CAPABLE OF TREATING UP TO 8000 LITRES OF RAW SEWERAGE DISCHARGE PER DAY WITH THE DISCHARGE FROM THE ATU SYSTEM TO BE OF AN ACCEPTABLE QUALITY TO BE DISCHARGED VIA LEACH DRAINS MEETING THE REQUIREMENTS OF THE DEPARTMENT OF HEALTH AND LOCAL AUTHORITY.

PROVIDE DUAL DUTY STANDBY EFFLUENT DISCHARGE PUMPS SIZED TO SUIT DISPOSAL OF EFFLUENT TO THE DESIGNATED LEACH DRAIN SYSTEM AND ASSOCIATED CONTROL PANEL FOR FULLY AUTOMATIC OPERATION.

ATU CONTROL PANEL SHALL BE MOUNTED IN LOCATION AS SHOWN ON THE DRAWINGS AND AS CONFIRMED ON SITE BY THE SUPERINTENDENT. CONTRACTOR SHALL PROVIDE CONDUITS FOR CONTROL WIRING AND POWER FROM CONTROL PANEL TO TREATMENT UNIT.

ON COMPLETION OF PROJECT MANUFACTURER OR AUTHORISED AGENT SHALL FULLY COMMISSION UNIT AND CERTIFICATION TO BE PROVIDED CONFIRMING THAT THE UNIT IS OPERATING AND IN FIRST CLASS WORKING ORDER. PRIOR TO ORDERING UNIT, PROVIDE 4 X FULLY DETAILED WORKSHOP DRAWINGS TO SUPERINTENDENT IDENTIFYING ALL ASSOCIATED EQUIPMENT FOR SYSTEM INCLUDING EXTENT OF SUBSURFACE DRIPPER SYSTEM AND ALSO CONTROL DIAGRAMS FOR THE PLANT

REV	DATE	DESCRIPTION	BY	CHKD
B	12.10.23	PRELIMINARY	RGS	RGS
A	02.10.23	PRELIMINARY	RGS	RGS

PRELIMINARY ISSUE

CLIENT



DISCIPLINE: HYDRAULIC SERVICES

PROJECT: GINGIN COMMERCIAL CENTRE

STAGE 1

DRAWING: SITE PLAN - SEWER

DRAWN	DESIGNED	REVIEWED	APPROVED	DATE	SCALE
RGS	RGS	RGS	RGS	OCT 2023	1:200 @ A1

BCA PROJECT No: 230373 DRAWING No: HSK01 REV: B