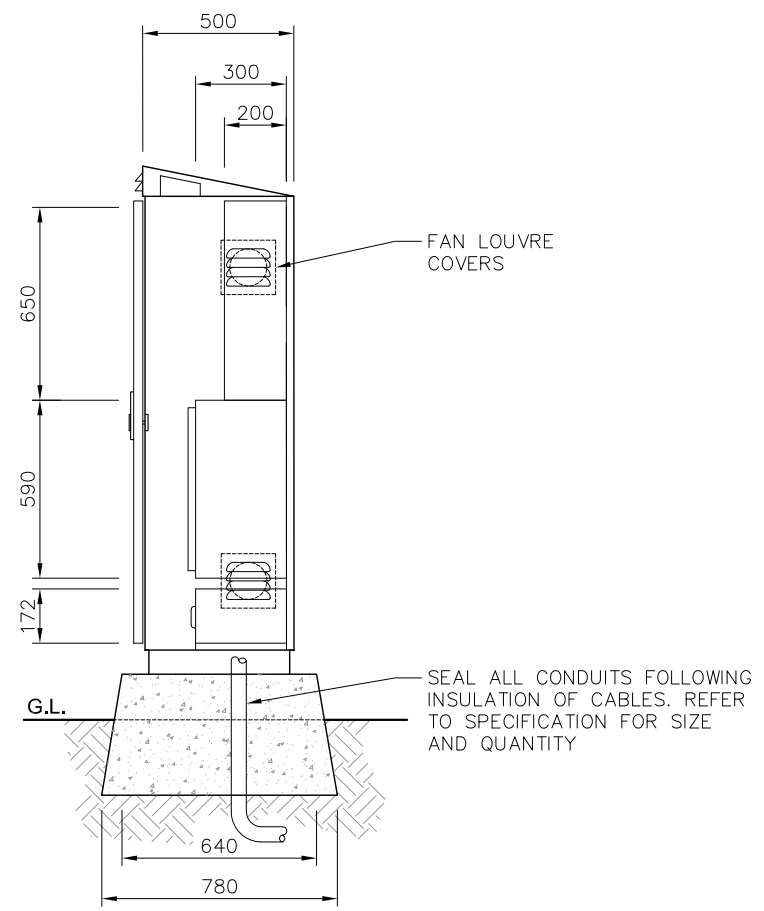
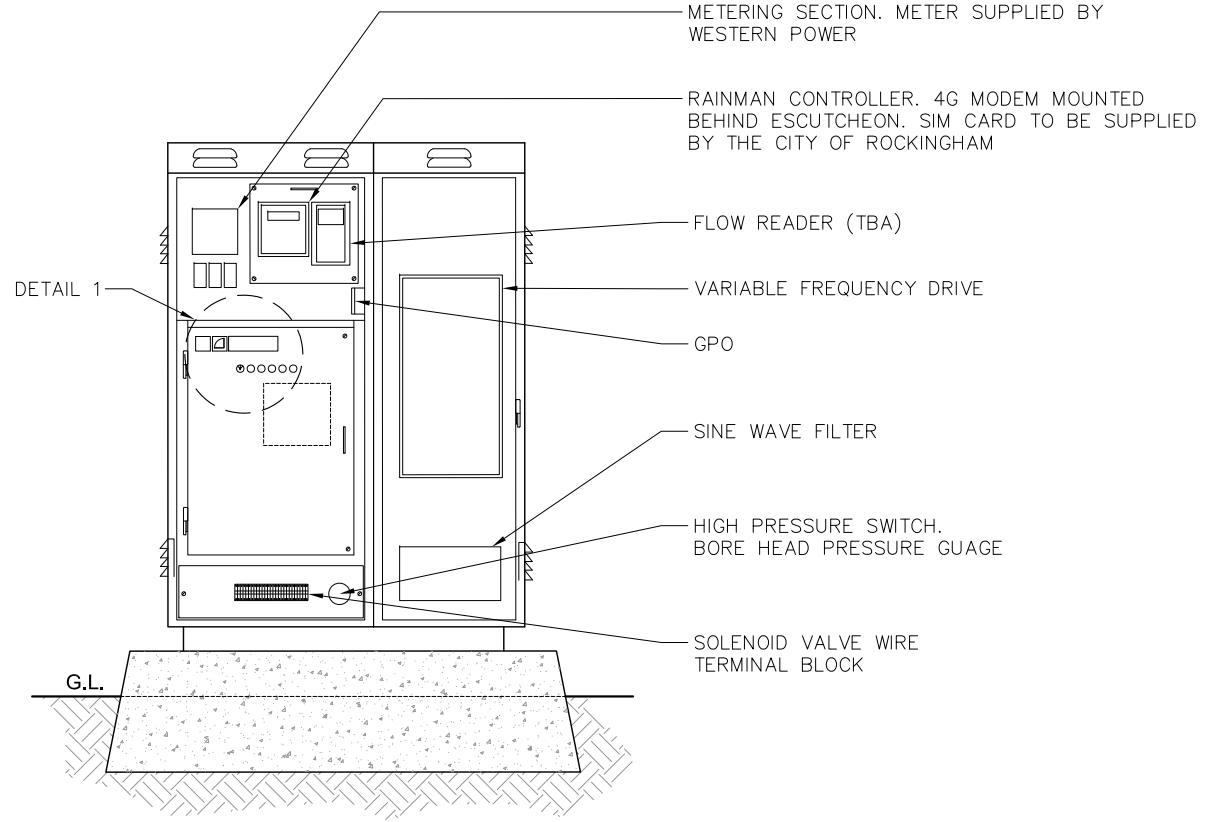


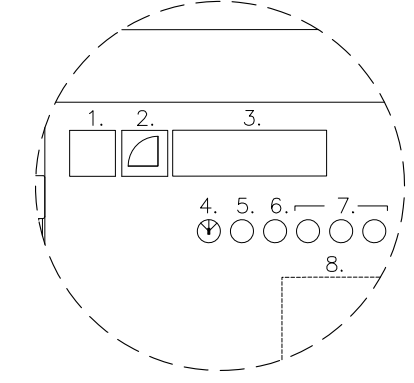
1 FRONT VIEW



2 SIDE VIEW



3 CUBICLE, STARTER & CONTROL DETAILS



1. MAIN ISOLATOR
2. AMP GAUGE
3. PUMP CONTROL, CIRCUIT BREAKERS & PHASE FAILURE
4. MANUAL ON/OFF/AUTO SWITCH
5. RESET LAMP TEST BUTTON
6. PUMP RUN LOW LEVEL
7. OVERLOAD LIGHTS
8. PUMP CONTROLS. TRANSFORMER LOW LEVEL RELAY MAINLINE PRESSURE TRANSDUCER

4 DETAIL 1

- NOTES:
1. ALL ELECTRICAL INSTALLATIONS INCLUDING APPROPRIATE SEGREGATION TO BE IN ACCORDANCE WITH AS3000 (MOST RELEVANT VERSION) AND AS60529-2004 (R2018) FOR DEGREE OF PROTECTION PROVIDED BY ENCLOSURES (IP CODE)
  2. CONNECTION INTO THE POWER SUPPLY FROM THE CUBICLE IS TO BE INCLUDED IN THE INSTALLATION.
  3. CUBICLE CONSTRUCTION TO BE 2.5mm MARINE GRADE ALUMINIUM WITH ORBITAL SAND FINISH.
  4. PROVIDE STRUCTURAL FRAME STIFFENERS, MOUNTING FRAMES AND CHANNELS AS REQUIRED.
  5. DOOR HANDLE TO BE CHROME PADLOCKING SWING HANDLE WITH DOOR STIFFENERS
  6. DOOR STAYS SHALL BE 3 X 100mm GAS STRUTS
  7. VFD IS TO BE SIZED APPROPRIATELY TO SUPPORT THE PUMP SELECTED AND THE DELIVERABLES FOR THE PARTICULAR SITE. THE VFD MUST BE STRICTLY INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS INCLUDING PROVISION OF SEPARATION REQUIREMENTS AND ADEQUATE COOLING. IF THE SEPARATION DISTANCES CAN NOT BE ACHIEVED WITHIN THE ENVELOPE OF THE ELECTRICAL CUBICAL, IT IS THE APPLICANTS RESPONSIBILITY TO MODIFY THE CABINET ACCORDINGLY AND SUBMIT DESIGN TO THE CITY'S IRRIGATION SUPERVISOR FOR APPROVAL.
  8. RESET BUTTON TO RESET ALL SYSTEM OPERATING FAULTS
  9. HIGH, SKIP AND LOW PRESSURE PROTECTION TO BE SWITCHED THOUGHT THE 4-20MA PRESSURE INPUT ON THE CONTROLLER.
  10. LOW LEVEL PROBE TO BE INSTALLED AT BORE HEAD JUNCTION BOX
  11. HIGH PRESSURE SWITCH, LOW LEVEL AND MOTOR OVERLOAD ARE TO BE BE CONNECTED INTO THE RAINMAN CONTROLLER THROUGH THE TRANSDUCER.
  12. RAINMAN CONTROLLER TO BE INSTALLED WITH TRANSFORMER AS PER. MANUFACTURERS RECOMMENDATIONS.
  13. BORE HEAD PRESSURE TUBING TO BE CONNECTED INTO INDEPENDENT HIGH PRESSURE SWITCH.
  14. PRESSURE TRANSDUCER TO BE CONNECTED FROM MAINLINE INTO CONTROLLER.
  15. THE HYDROMETER APPROVED BY THE CITY OF ROCKINGHAM IS TO BE CONNECTED INTO THE CONTROLLER VIA AN EMFLUX M500 OR MOST CURRENT MODEL APPROVED BY THE CITY OF ROCKINGHAM.
  16. ALL CABLES AND CONDUITS FOR THE CONNECTION OF THE BORE PUMP, LOW LEVEL PROBE, HYDROMETER CABLE, AND BOTH AIR LINES ARE TO BE INCLUDED INTO THE INSTALLATION
  17. ALL COMMISSIONING AND TESTING TO BE CARRIED OUT WITH THE IRRIGATION SUPERVISOR FROM THE CITY.
  18. IRRIGATION CONTROLLER AND SUPPORTING HARDWARE MAY BE REQUIRED TO BE UPGRADED PRIOR TO HANDOVER TO THE CITY, IF THERE HAS BEEN AN EXTENDED MAINTENANCE PERIOD AND THE HARDWARE IS NO LONGER COMPATIBLE WITH THE CITY'S CENTRAL SYSTEM.

NO.	DESCRIPTION	DATE	SIGNED
C	DRAWING AMENDED TO SUIT UPDATED CITY SPECIFICATIONS	25.07.2023	J.H.
B	DRAWING AMENDED TO SUIT UPDATED CITY SPECIFICATIONS	25.05.2020	J.H.
A	ORIGINAL ISSUE	05.07.03	J.H.

**CITY OF ROCKINGHAM STANDARD DRAWINGS**

TITLE:  
**ELECTRICAL CUBICLE - VARIABLE FREQUENCY DRIVE (VFD) PUMP**

PO Box 2142  
 Rockingham DC  
 WA 6169  
 TELEPHONE: (08)9528 0333  
 FAX: (08) 9592 1705

DESIGN	J. HENSON	
DRAWN	E. LEWIS	
CHECKED	S. THAKKAR	
APPROVED	J. HENSON	
FILE NO.	DRAWING NO.	REV.
COR_IRR-04	001	C

A4 SCALE AS SHOWN