

EXISTING
PRIVATE
DRIVEWAY
256 KNIGHT
ROAD

Approximate edge of asphalt

Approximate Location of Property Line

KNIGHT ROAD

SCALE 1:20

1. ALL DIMENSIONS ARE IN METERS {UNLESS OTHERWISE SHOWN}
2. WELL CHAMBER HAS 4 SWING OPENING 5MM THICK AL/SS DOOR
3. CONTRACTOR TO VERIFY THE LOCATION AND DEPTHS OF ALL UTILITIES PRIOR TO EXCAVATION AND FABRICATION.

GENERAL NOTES



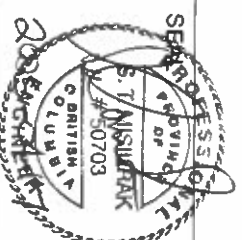
150MM TO VELVET ROAD

REVISIONS

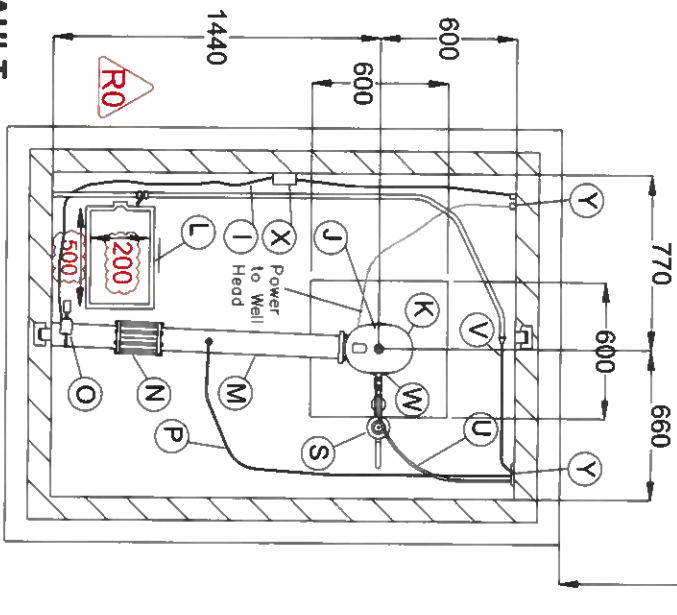
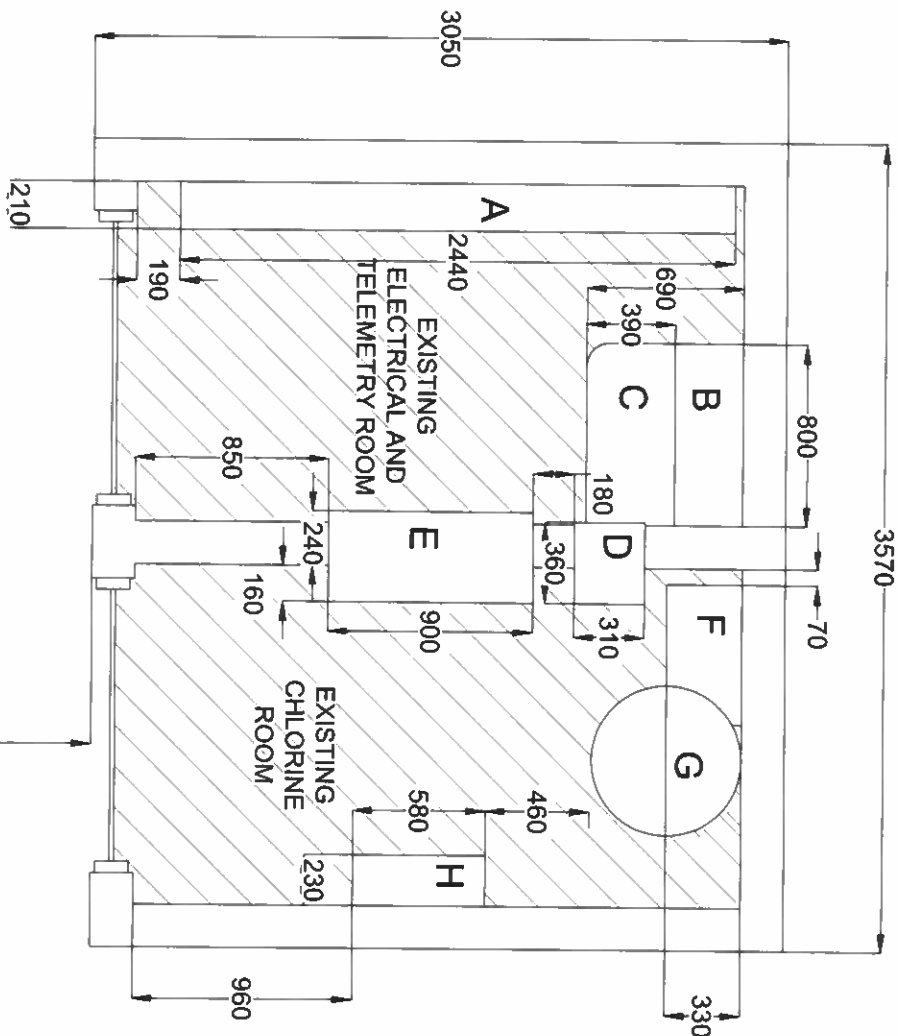


1975 Field Road
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Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

**SUNSHINE COAST
REGIONAL DISTRICT
INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003260**



PUMP HOUSE/HYPOTHOS STORAGE



1
C-02

WELL VAULT

ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN

TO DISTRIBUTION SYSTEM

SCHEDULE OF DRAWING ELEMENTS

ITEM	DESCRIPTION	QUANTITY
A	ELECTRICAL CONTROL PANEL	1
B	BOOK SHELF	1
C	TABLE	1
D	HYPOCHLORITE INJECTION CONTROL PANEL	1
E	PUMP CONTROL PANEL	1
F	HYPOCHLORITE INJECTION UNIT	1
G	HYPOCHLORITE BARREL	1
H	FIRST AID KIT	1
I	MAGNETIC FLOW METER COMMUNICATION CABLE	1
J	WELL HEAD	1
K	VAL MATIC AIR-VAC	1
L	SUMP CHAMBER	1
M	100mm Dia. D.I. SPOOL PIPE	1
N	NON RESTRAINED MECHANICAL COUPLER	1
O	MAGNETIC FLOW METER SENSOR	1
P	HYPOCHLORITE INJECTOR PIPE	1
Q	BALL VALVES 25mm A.V. & 19mm PSV	2
R	PRESSURE GAUGE	1
S	SURGE PRESSURE RELIEF VALVE	1
T	DISCHARGE PRESSURE RELIEF VALVE	1
U	6mm RAW WATER SAMPLE LINE WITH SHUTOFF VALVE	1
V	25mm TREATED WATER SAMPLE LINE FOR RESIDUAL CHLORINE ANALYZER	1
W	WELL DISCHARGE C.I. TEE 100mmX100mmX100mm (FLG)	1
X	COMMUNICATION CABLE JUNCTION BOX	1
Y	25mm CONDUITS AND VAULT PENETRATIONS	3
Z	100mm SUMP DRAIN	1

REVISIONS

R0	2025-04-17	
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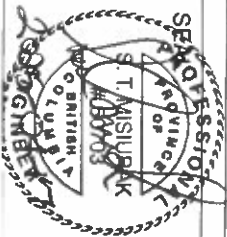


SUNSHINE COAST
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DESIGNED BY:	SM
DRAWN BY:	JM/MM
CHECKED BY:	MO
APPROVED BY:	SM
SCALE	H NTS
PLOT DATE:	V NTS
	2025-04-17

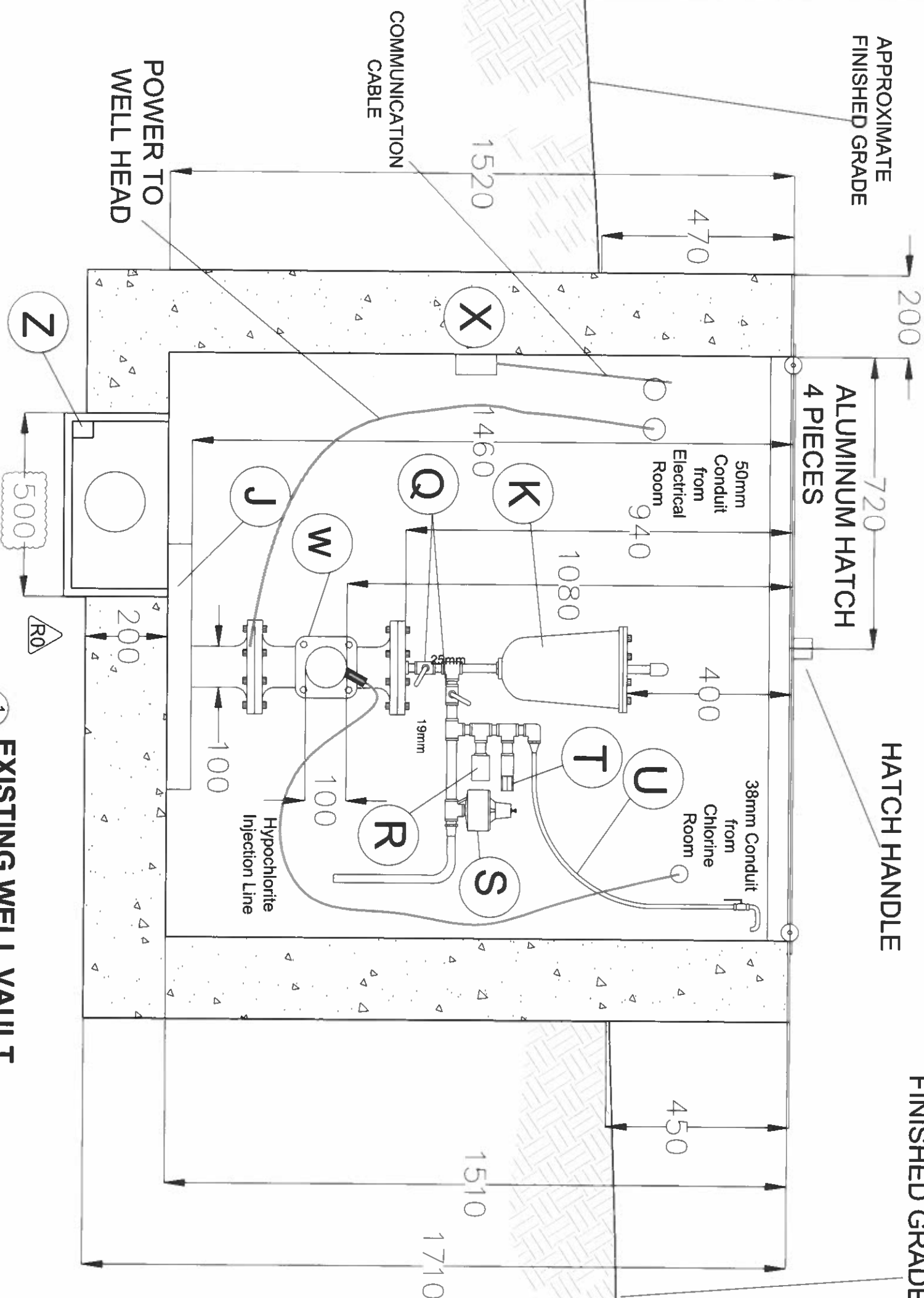
CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

DRAWING :
EXISTING WELL VAULT
PLAN VIEW





WORK ORDER NO.	
DRAWING NO:	C-01
SHEET NO :	

SCHEDULE OF DRAWING ELEMENTS		
ITEM	DESCRIPTION	QUANTITY
A	ELECTRICAL CONTROL PANEL	1
B	BOOK SHELF	1
C	TABLE	1
D	HYPOCHLORITE INJECTION CONTROL PANEL	1
E	PUMP CONTROL PANEL	1
F	HYPOCHLORITE INJECTION UNIT	1
G	HYPOCHLORITE BARREL	1
H	FIRST AID KIT	1
I	MAGNETIC FLOW METER COMMUNICATION CABLE	1
J	WELL HEAD BASE PLATE	1
K	VAL MATIC AIR-VAC	1
L	SUMP CHAMBER	1
M	100mm Dia. D.I. SPOOL PIPE	1
N	MECHANICAL COUPLER	1
O	MAGNATIC FLOW METER SENSOR	1
P	HYPOCHLORITE INJECTOR PIPE	1
Q	BALL VALVES 25mm A.V. & 19mm PSV	2
R	PRESSURE GAUGE	1
S	SURGE PRESSURE RELIEF VALVE	1
T	DISCHARGE PRESSURE RELIEF VALVE	1
U	6mm RAW WATER SAMPLE LINE WITH SHUTOFF VALVE	1
V	25mm TREATED WATER SAMPLE LINE FOR RESIDUAL CHLORINE ANALYZER	1
W	WELL DISCHARGE C.I. TEE 100mmX100mmX100mm (FLG)	1
X	COMMUNICATION CABLE JUNCTION BOX	1
Y	25mm CONDUITS	3
Z	100mm SUMP DRAIN	1



EXISTING WELL VAULT

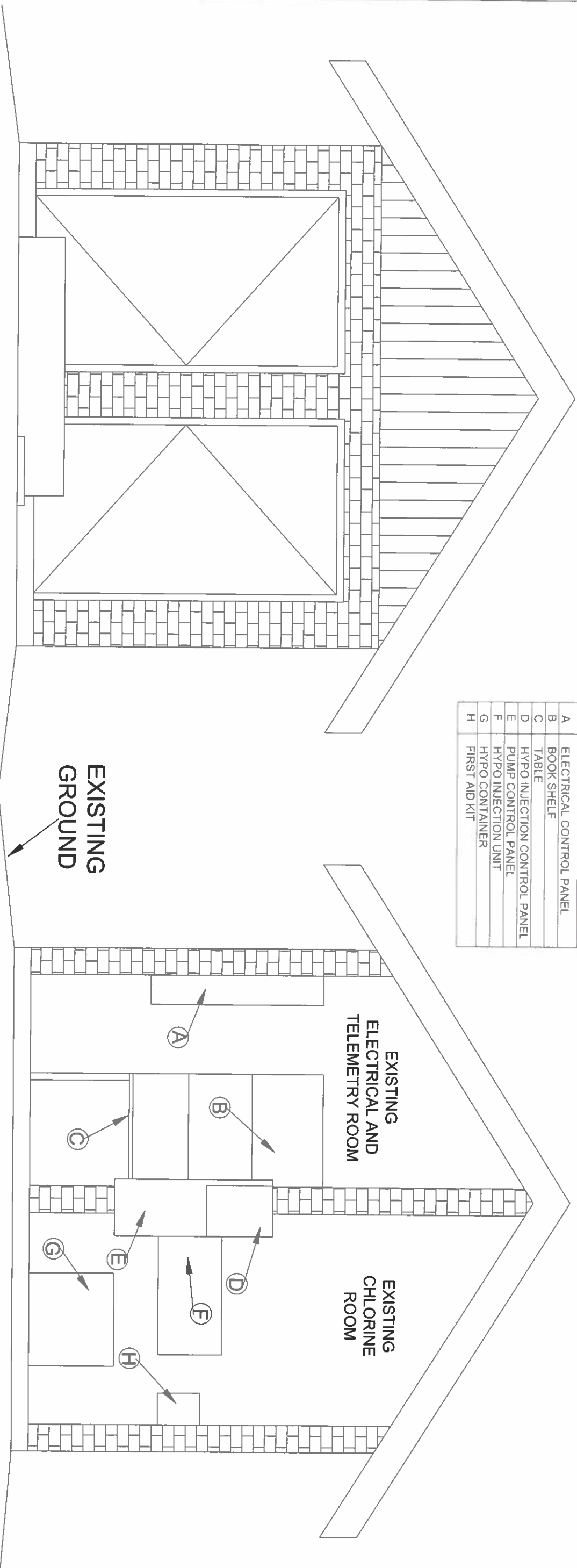
ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN

REVISIONS H0 2025-04-17			
SUNSHINE COAST REGIONAL DISTRICT INFRASTRUCTURE DEPARTMENT PERMIT TO PRACTICE No. 1003260 1975 Field Road Sechelt, BC V0N 3A1 Ph: 604-886-6800 / 800-687-5753 Fax: 604-886-7909		DESIGNED BY: SM DRAWN BY: JM/MM CHECKED BY: MO APPROVED BY: SM SCALE: H NTS V NTS PLOT DATE: 2025-04-17	
CHASTER ROAD WELL AND PUMP IMPROVEMENTS		DRAWING : EXISTING WELL VAULT PROFILE VIEW	
		WORK ORDER NO. DRAWING NO: C-02 SHEET NO :	



BILL OF MAJOR MATERIALS (EXISTING)

A	ELECTRICAL CONTROL PANEL
B	BOOK SHELF
C	TABLE
D	HYPH INJECTION CONTROL PANEL
E	PUMP CONTROL PANEL
F	HYPH INJECTION UNIT
G	HYPH CONTAINER
H	FIRST AID KIT



FRONT ELEVATION

A SECTION
- ELEVATION

REVISIONS

R0	2025-04-17



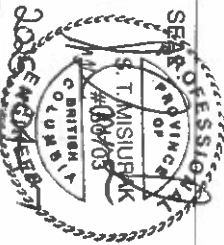
**SUNSHINE COAST
REGIONAL DISTRICT**
INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003260
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DRAWN BY:	JMMM
CHECKED BY:	MO
APPROVED BY:	SM
SCALE	H n/a V n/a
PLOT DATE:	2025-04-17

**CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS**

DRAWING :

EXISTING BUILDING



WORK ORDER NO.

DRAWING NO:

C-03

SHEET NO :

5 OF 13

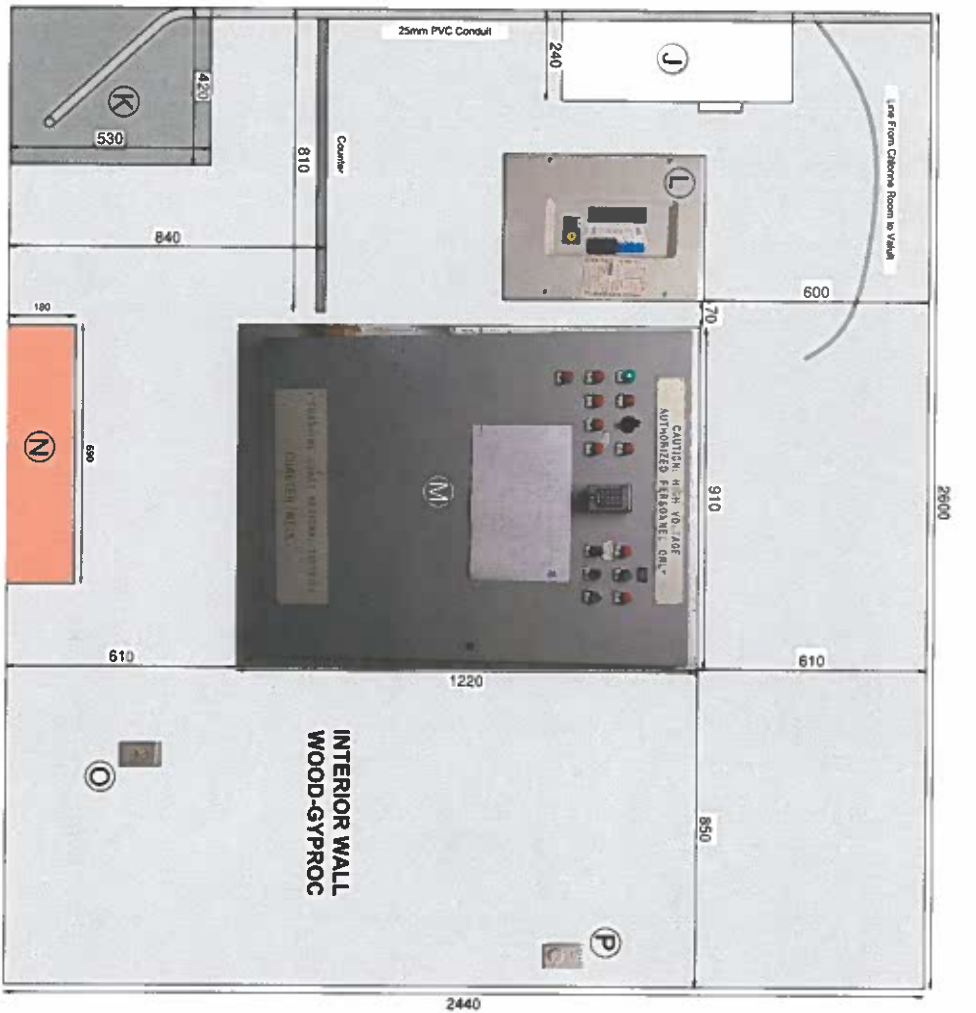
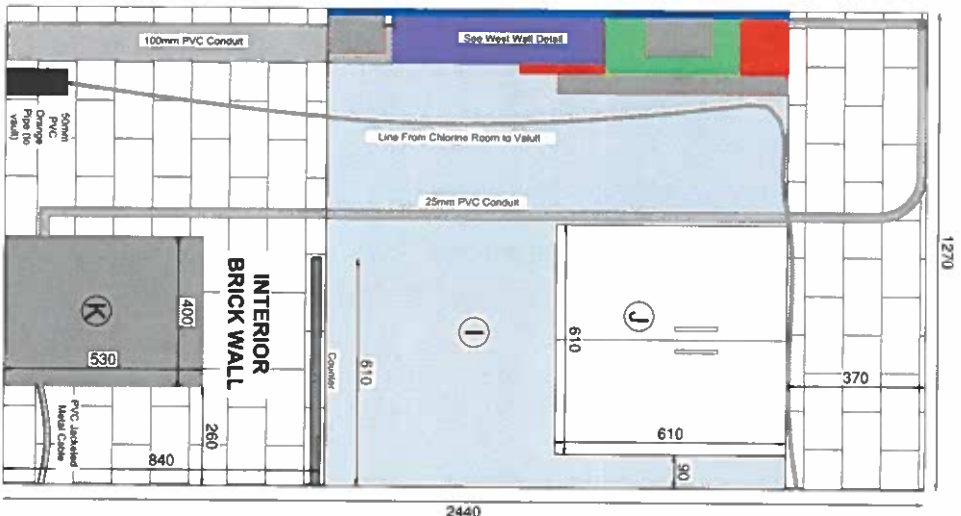
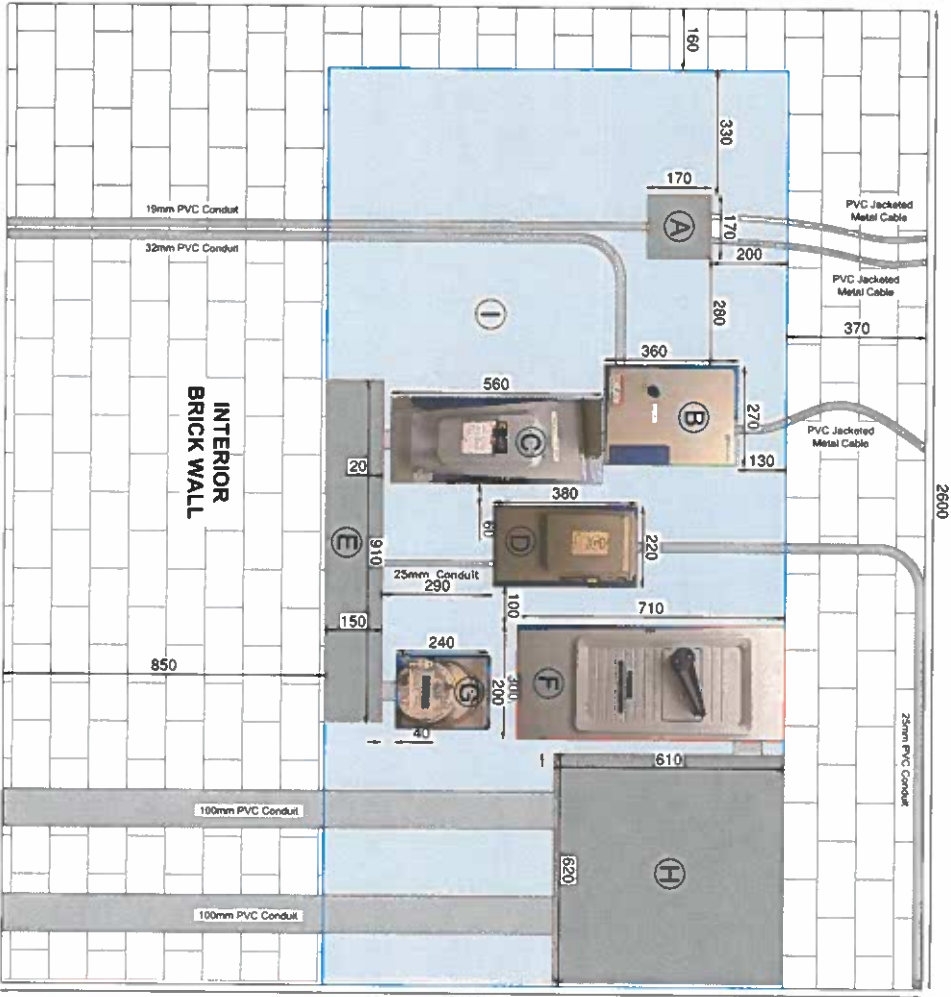


BILL OF MAJOR MATERIALS (EXISTING)

ITEM	DESCRIPTION	QUANTITY
A	JUNCTION BOX	1
B	PUMP (POWER) OVERLOAD RESET	1
C	PUMP DISCONNECT SWITCH	1
D	HEAVY DUTY SAFETY SWITCH (LIGHTS)	1
E	JUNCTION BOX	1
F	MAIN SWITCH 480 VOLT 3-PHASE 3-WIRE	1
G	ELECTRICAL METER	1
H	MAIN JUNCTION BOX (POWER IN)	1
I	19mm PLYWOOD BACKING	1

ITEM	DESCRIPTION	QUANTITY
J	CUPBOARD	1
K	TRANSFORMER	1

ITEM	DESCRIPTION	QUANTITY
L	FEDERAL STAB-LOK 125 AMP 120 VOLT 240	1
M	PCL PANEL	1
N	BASEBOARD HEATER	1
O	120V OUTLET	1
P	THERMOSTAT	1



DETAIL

ELECTRICAL ROOM

SCALE= 1:10

ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN.

REVISIONS

R0	2025-04-17
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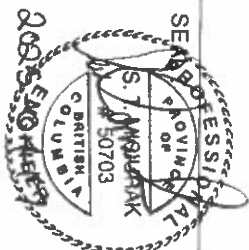
SUNSHINE COAST
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CHECKED BY:	MO
APPROVED BY:	SM
SCALE	H n/a V n/a
PLOT DATE:	2025-04-17

CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

DRAWING :

ELECTRICAL ROOM
(EXISTING)



WORK ORDER NO.

DRAWING NO:

C-04

SHEET NO :

6 OF 13



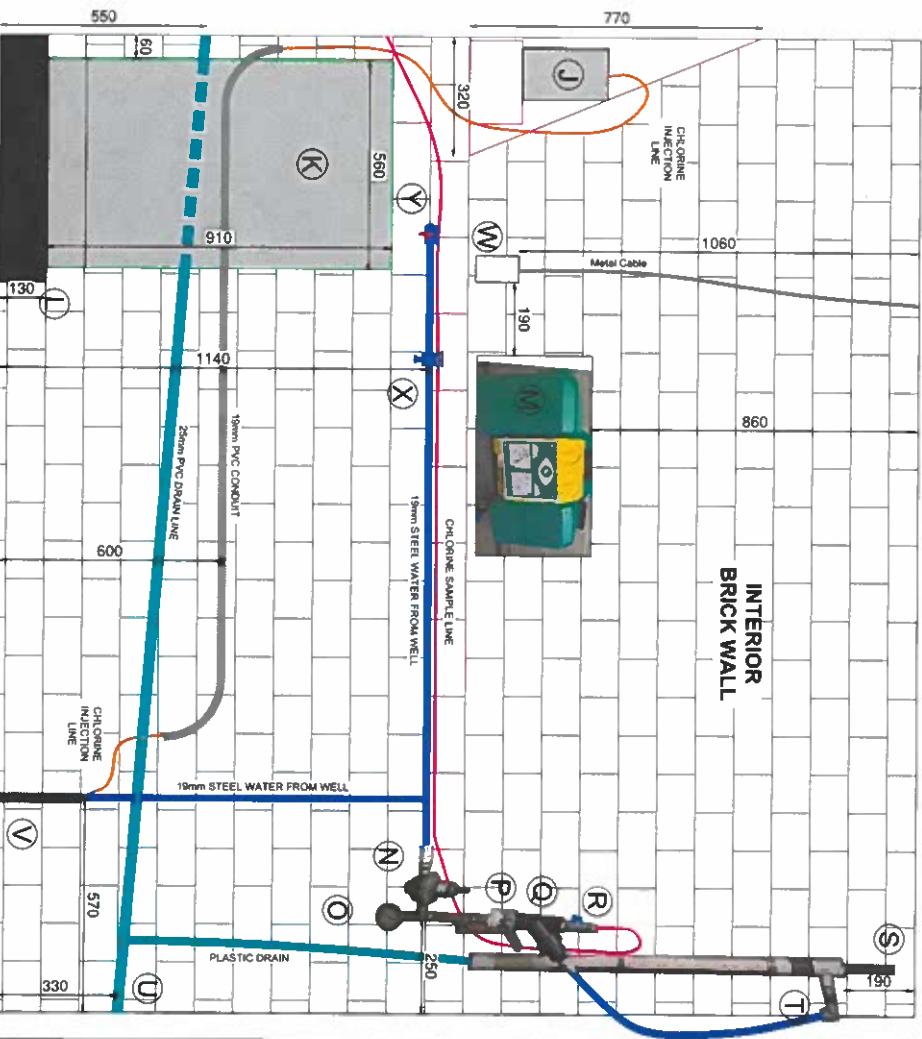
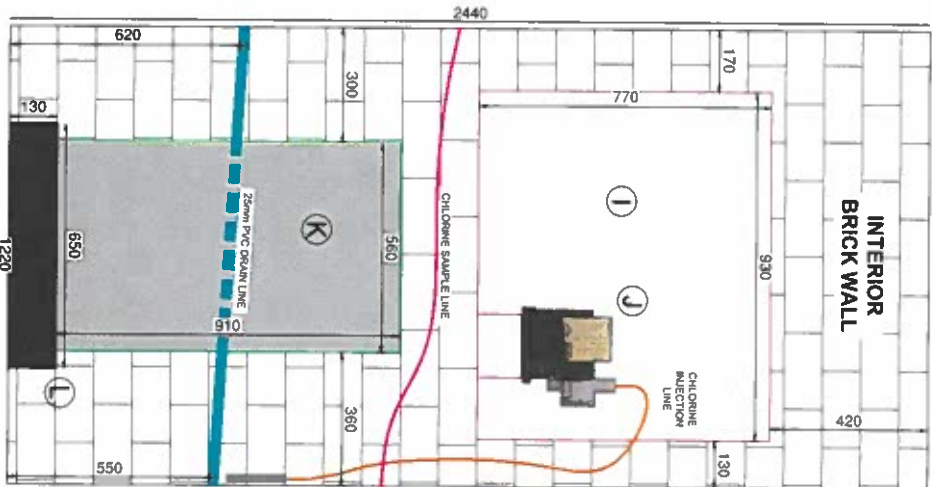
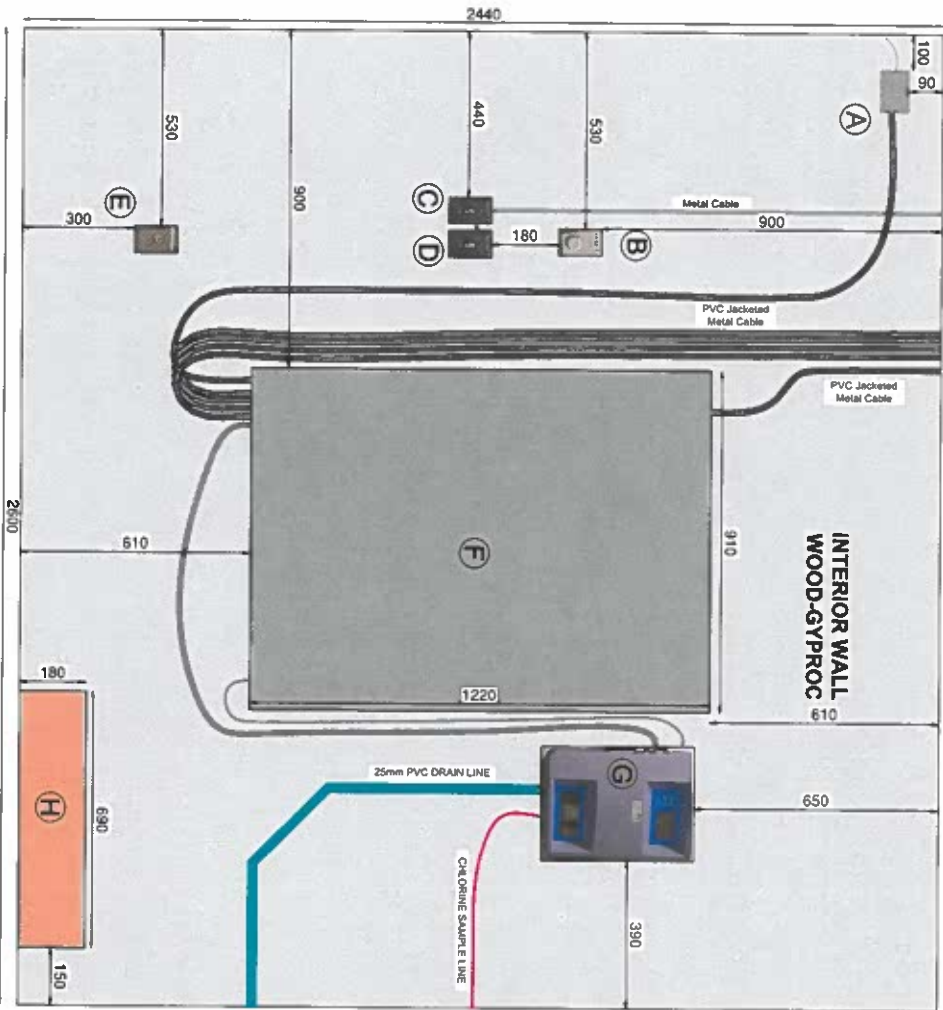
BILL OF MAJOR MATERIALS (EXISTING)

ITEM	DESCRIPTION	QUANTITY
A	JUNCTION BOX AND DOOR SENSOR LEAD	1
B	THERMOSTAT	1
C	LIGHT SWITCH	1
D	FAN SWITCH	1
E	POWER PLUG	1
F	BACK OF MASTER CONTROL PANEL (SEE ELECTRICAL ROOM	1
G	CHLORINE ANALYZER	1
H	BASEBOARD HEATER	1

ITEM	DESCRIPTION	QUANTITY
I	CLEAR PLEX-GLASS SHELF	1
J	CHLORINE PUMP	1
K	CHLORINE TANK	1
L	CHLORINE SPILL CONTAINMENT	1



ITEM	DESCRIPTION	QUANTITY
M	EYE WASH STATION	1
N	PRV	1
O	PRESSURE GAUGE	1
P	SHUTOFF VALVES	2
Q	OVERFLOW WYE	1
R	CHLORINE SAMPLE LINE SHUTOFF	1
S	CHLORINE ANALYZER	1
T	TEE AND 90° FOR OVERFLOW LINE	1
U	DRAIN TO EXTERIOR OF BUILDING	1
V	PVC CONDUIT TO WELL VAULT	1
W	POWER PLUG (CHLORINE PUMP)	1
X	SAMPLING TAP	1
Y	SHUTOFF VALVE	1



WEST INTERIOR WALL

NORTH EXTERIOR WALL
DETAIL

CHLORINE ROOM

SCALE= 1:10

ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN.

R0

REVISIONS
2025-04-17



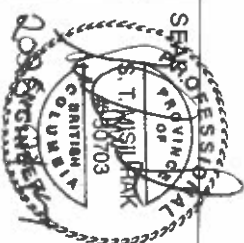
SUNSHINE COAST
REGIONAL DISTRICT
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APPROVED BY:	SM
SCALE	H n/a V n/a
PLOT DATE:	2025-04-17

CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

DRAWING :

CHLORINE ROOM



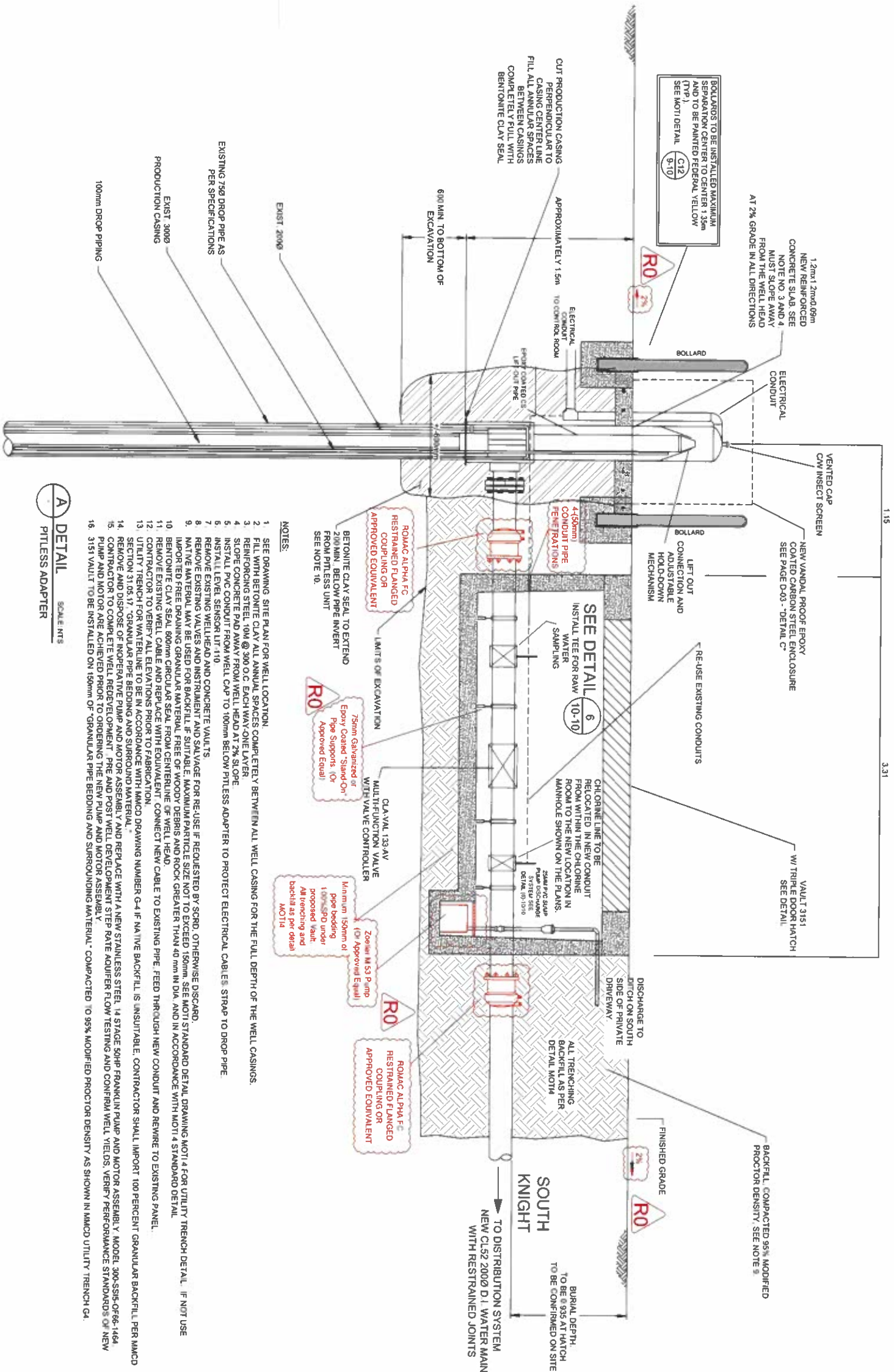
WORK ORDER NO.

DRAWING NO:

C-05

SHEET NO :

7 OF 13



NOTES:

1. SEE DRAWING SITE PLAN FOR WELL LOCATION.
2. FILL WITH BENTONITE CLAY ALL ANNUAL SPACES COMPLETELY BETWEEN ALL WELL CASING FOR THE FULL DEPTH OF THE WELL CASINGS.
3. REINFORCING STEEL 10M @ 300 O.C. EACH WAY ONE LAYER.
4. SLOPE CONCRETE PAD AWAY FROM WELL HEAD AT 2% SLOPE.
5. INSTALL PVC CONDUIT FROM WELL CAP TO 100mm BELOW PITLESS ADAPTER TO PROTECT ELECTRICAL CABLES. STRAP TO DROP PIPE.
6. INSTALL LEVEL SENSOR LIT-110.
7. REMOVE EXISTING WELLHEAD AND CONCRETE VALU-T'S.
8. REMOVE EXISTING VALVES AND INSTRUMENT AND SALVAGE FOR RE-USE IF REQUESTED BY SCRD. OTHERWISE DISCARD.
9. NATIVE MATERIAL MAY BE USED FOR BACKFILL IF SUITABLE. MAXIMUM PARTICLE SIZE NOT TO EXCEED 150mm. SEE MOTI 4 STANDARD DETAIL. IF NOT USE IMPORTED FREE DRAINING GRANULAR MATERIAL FREE OF WOODY DEBRIS AND ROCK GREATER THAN 40 mm in DIA. AND IN ACCORDANCE WITH MOTI 4 STANDARD DETAIL.
10. BENTONITE CLAY SEAL 800mm CIRCULAR SEAL FROM CENTRELINE OF WELL HEAD.
11. REMOVE EXISTING WELL CABLE AND REPLACE WITH EQUIVALENT. CONNECT NEW CABLE TO EXISTING PIPE. FEED THROUGH NEW CONDUIT AND REWIRE TO EXISTING PANEL.
12. CONTRACTOR TO VERIFY ALL ELEVATIONS PRIOR TO FABRICATION.
13. UTILITY TRENCH FOR WATERLINE TO BE IN ACCORDANCE WITH MMCD DRAWING NUMBER G-4. IF NATIVE BACKFILL IS UNSUITABLE. CONTRACTOR SHALL IMPORT 100 PERCENT GRANULAR BACKFILL PER MMCD SECTION 31.03.17. GRANULAR PIPE BEDDING AND SURROUND MATERIAL.
14. REMOVE AND DISPOSE OF INOPERATIVE PUMP AND MOTOR ASSEMBLY AND REPLACE WITH A NEW STAINLESS STEEL 1/4 STAGE 50HP FRANKLIN PUMP AND MOTOR ASSEMBLY. MODEL 300-SSP-0F66-1464.
15. CONTRACTOR TO COMPLETE WELL REDEVELOPMENT. PRE AND POST WELL DEVELOPMENT STEP RATE ADQUIFER FLOW TESTING AND CONFIRM WELL YIELDS. VERIFY PERFORMANCE STANDARDS OF NEW PUMP AND MOTOR ARE ACHIEVED PRIOR TO ORDERING THE NEW PUMP AND MOTOR ASSEMBLY.
16. 3151 VAULT TO BE INSTALLED ON 150mm OF "GRANULAR PIPE BEDDING AND SURROUNDING MATERIAL". COMPACTED TO 95% MODIFIED PROCTOR DENSITY AS SHOWN IN MMCD UTILITY TRENCH G4.

A DETAIL
SCALE: NTS
PITLESS ADAPTER

REVISIONS

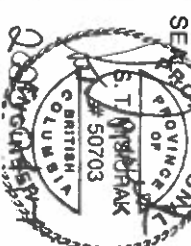
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CHECKED BY:	MO
APPROVED BY:	SM
SCALE	H n/a V n/a
PLOT DATE:	2025-04-17

CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

DRAWING :
WELL HEAD IMPROVEMENT
PROFILE VIEW



WORK ORDER NO.	
DRAWING NO:	C-07
SHEET NO :	9 OF 13

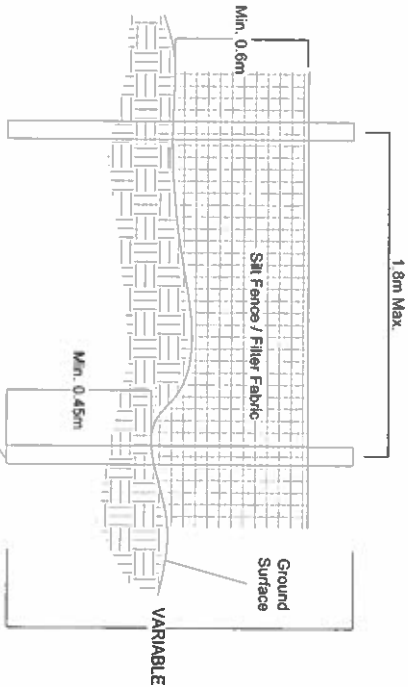
DETAIL
WELL HEAD AND PITLESS UNIT



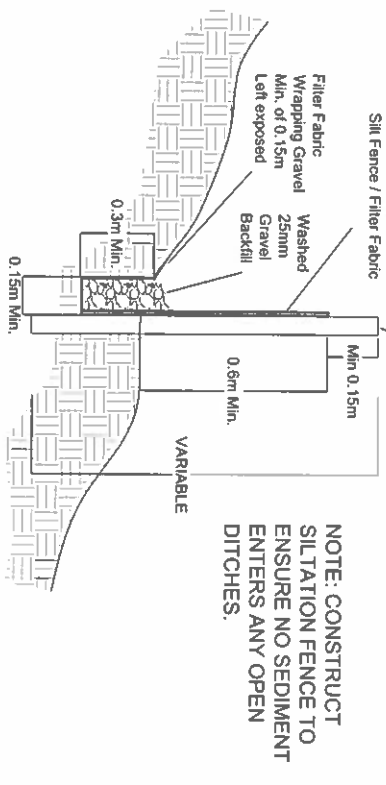
- DETAIL**
WELL PIPING



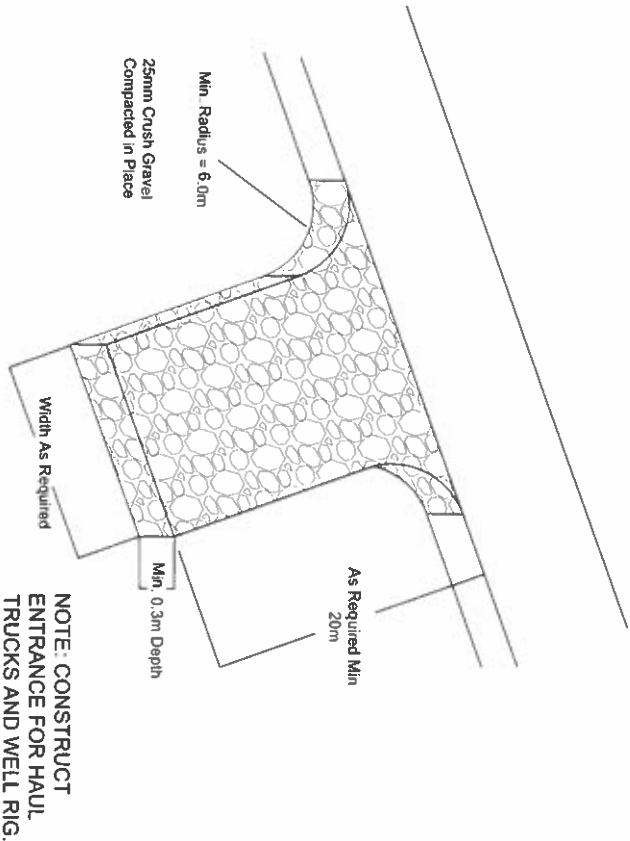
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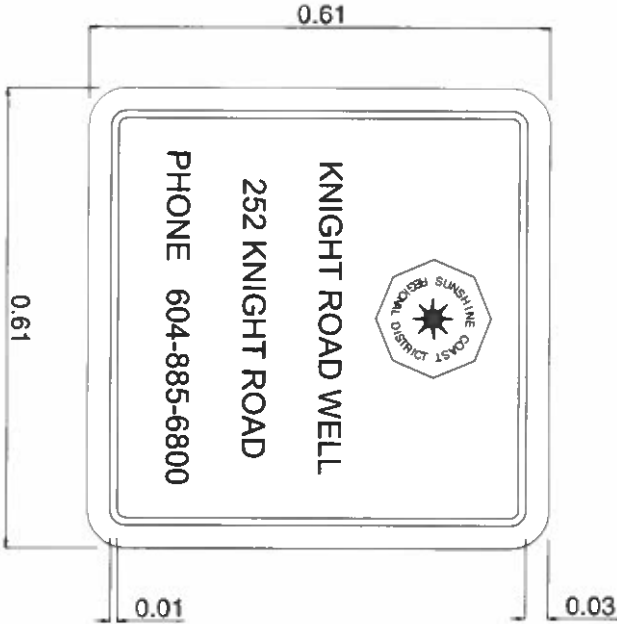
2
DETAIL
FILTER FABRIC FENCE



3
DETAIL
CONSTRUCTION ENTRANCE

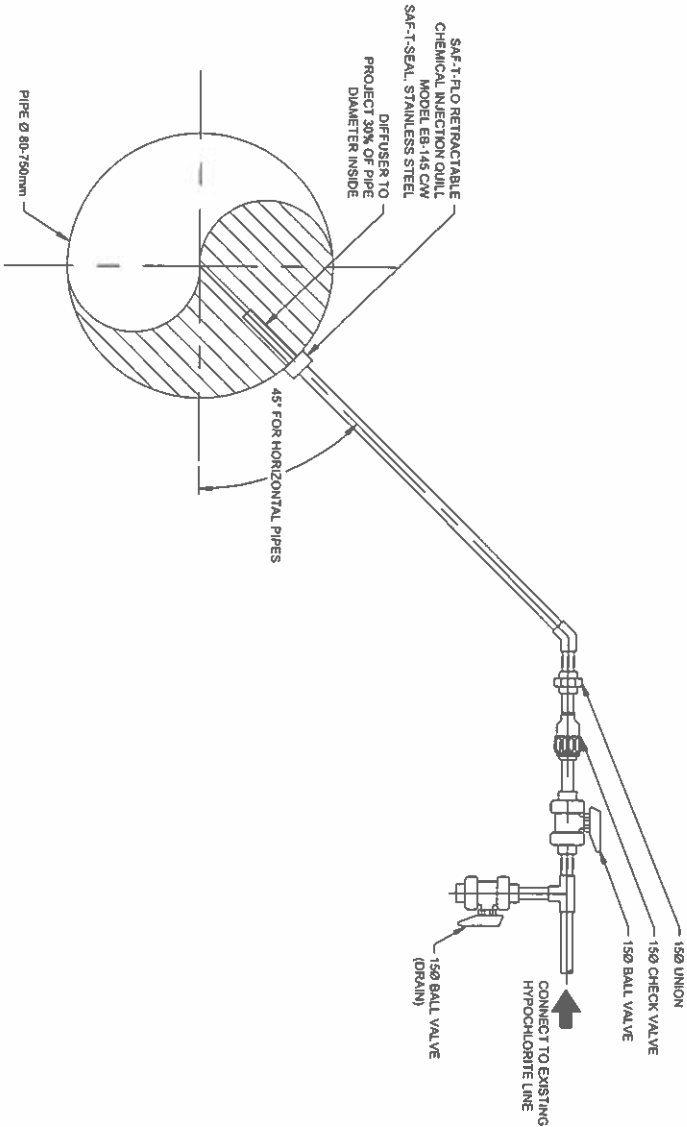


5
DETAIL
BUILDING SIGNAGE



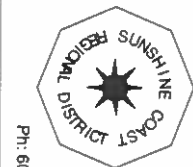
- NOTE:
- SIGN TO BE TYPE III RETROREFLECTIVE HIGH INTENSITY PRISMATIC SHEETING.
 - CONTRACTOR TO SUBMIT CHECK PRINT PRIOR TO FABRICATION.
 - BLUE LETTERING ON WHITE BACKGROUND.

1
DETAIL
CHLORINE RESIDUAL LINE INJECTION NOZZLE (QUILL),
SINGLE NOZZLE



REVISIONS

R0	2025-04-17

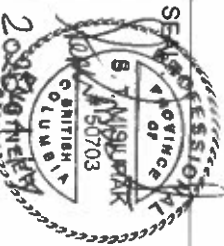


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SCALE	H n/a V n/a
PLOT DATE:	2025-04-17

CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

DRAWING :
MISCELLANEOUS DETAILS



WORK ORDER NO.	
DRAWING NO:	D-02
SHEET NO :	11 OF 13

