

CHASTER ROAD WELL AND PUMP IMPROVEMENTS

SUNSHINE COAST REGIONAL DISTRICT, UTILITIES DIVISION

SP100738 - WO106429

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CONTACT INFORMATION

MANAGER CAPITAL PROJECTS

Stephen Misurak, P. Eng

Sunshine Coast Regional District (SCRD)

1975 Field Road Sechelt, BC V0N 3A1

TEL: 604-885-6800 EXT.6494

WATER - UTILITIES SUPERINTENDENT

Codi Abbott

Sunshine Coast Regional District (SCRD)

Works Division

5920 Mason Rd, Sechelt, BC V0N 3A8

TEL: 604-885-6800 EXT.6311

NATURAL GAS

FortisBC Energy Inc.

16705 Fraser Highway

Surrey, BC V4N 0E8

POWER

BC Hydro

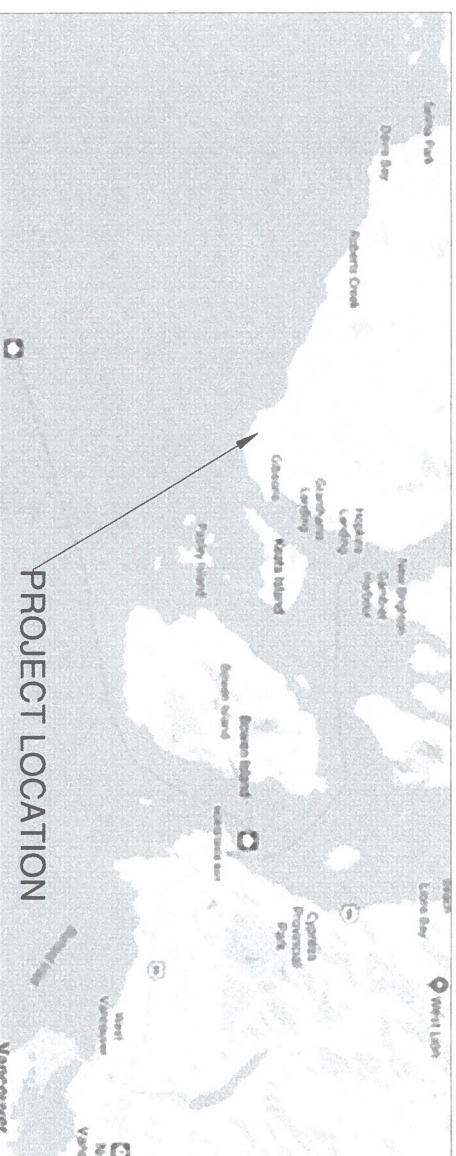
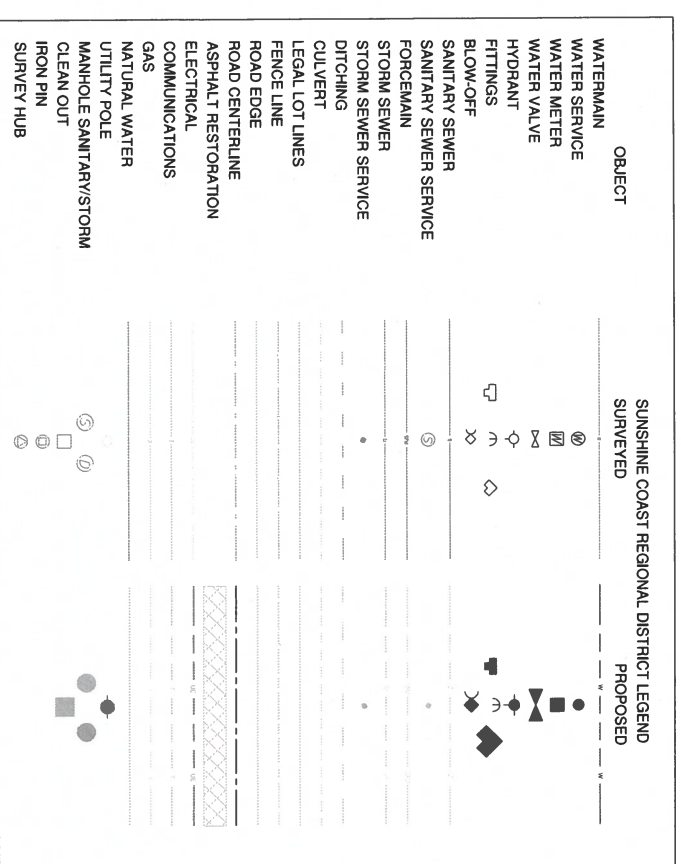
333 Dunsmuir St.

Vancouver, B.C. V6B 5R3

TELECOMMUNICATIONS

TELUS Communications

3777 Kingsway, Burnaby, BC V5H 3Z7



SITE LOCATION | NTS



SITE PLAN

REVISIONS

REVISION : 3 WITH CHANGES FROM COMMENTS	2023-08-10
REVISION : 2 WITH REVIEW COMMENTS	2023-03-20
REVISION : 1 ISSUED FOR CONSULTANT'S REVIEW	2021-05-14
REVISION : 0 (AT INITIAL DESIGN STAGE)	2020-05-12

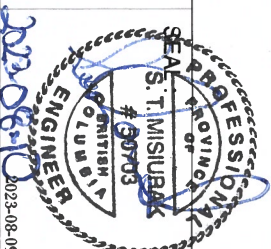


SUNSHINE COAST REGIONAL DISTRICT
INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003280
1975 Field Road
Sechelt, BC V0N 3A1
Ph: 604-885-6800 1-800-687-5733 Fax: 604-885-7909

DESIGNED BY:	AE
DRAWN BY:	JM
CHECKED BY:	SW
APPROVED BY:	SM
SCALE	H N/A V N/A
PLOT DATE:	2023-08-10

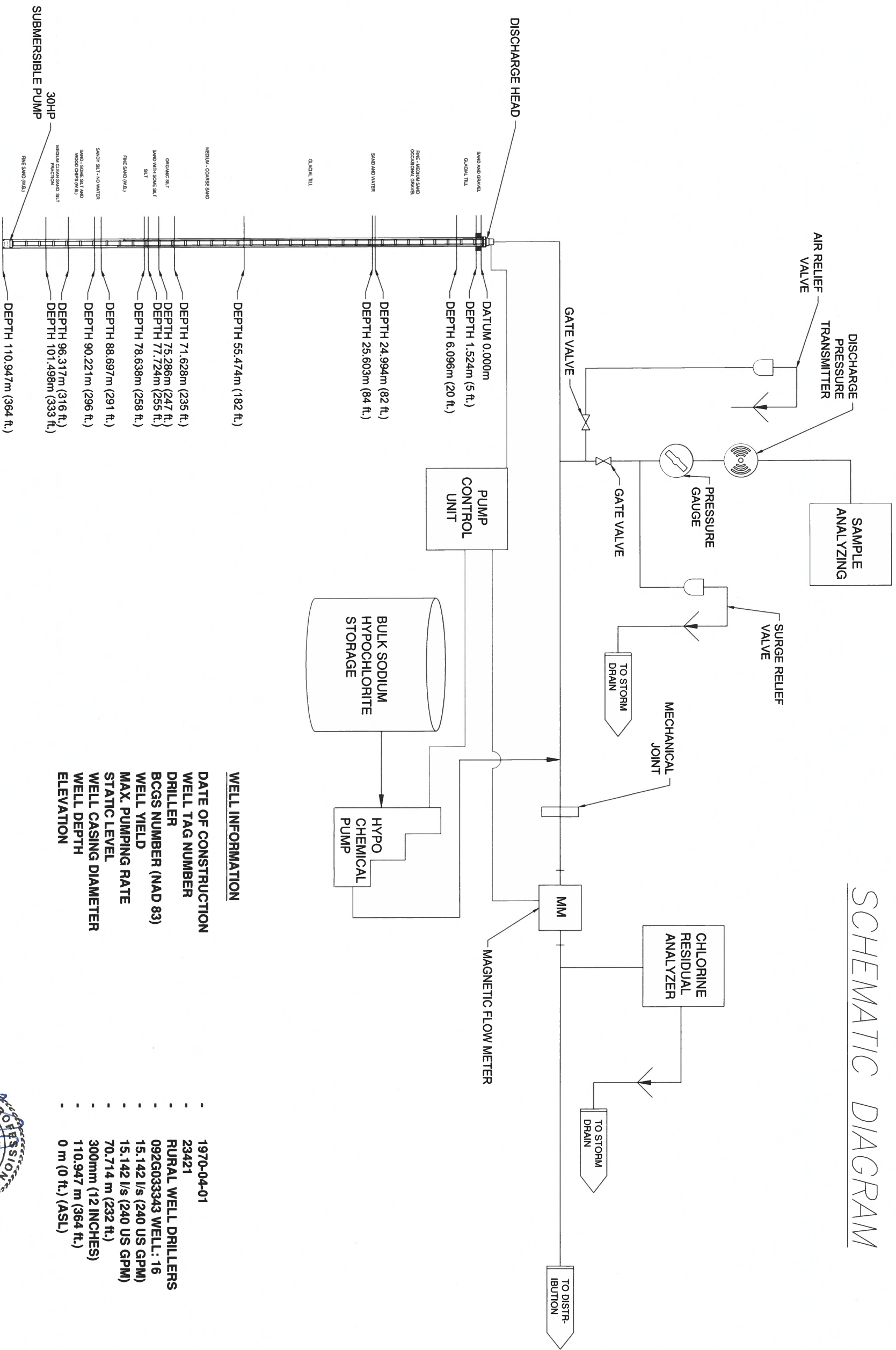
CHASTER ROAD WELL AND PUMP IMPROVEMENTS

DRAWING : **COVER SHEET**



WORK ORDER NO. 106429
DRAWING NO. G-01
SHEET NO. 01 OF 12

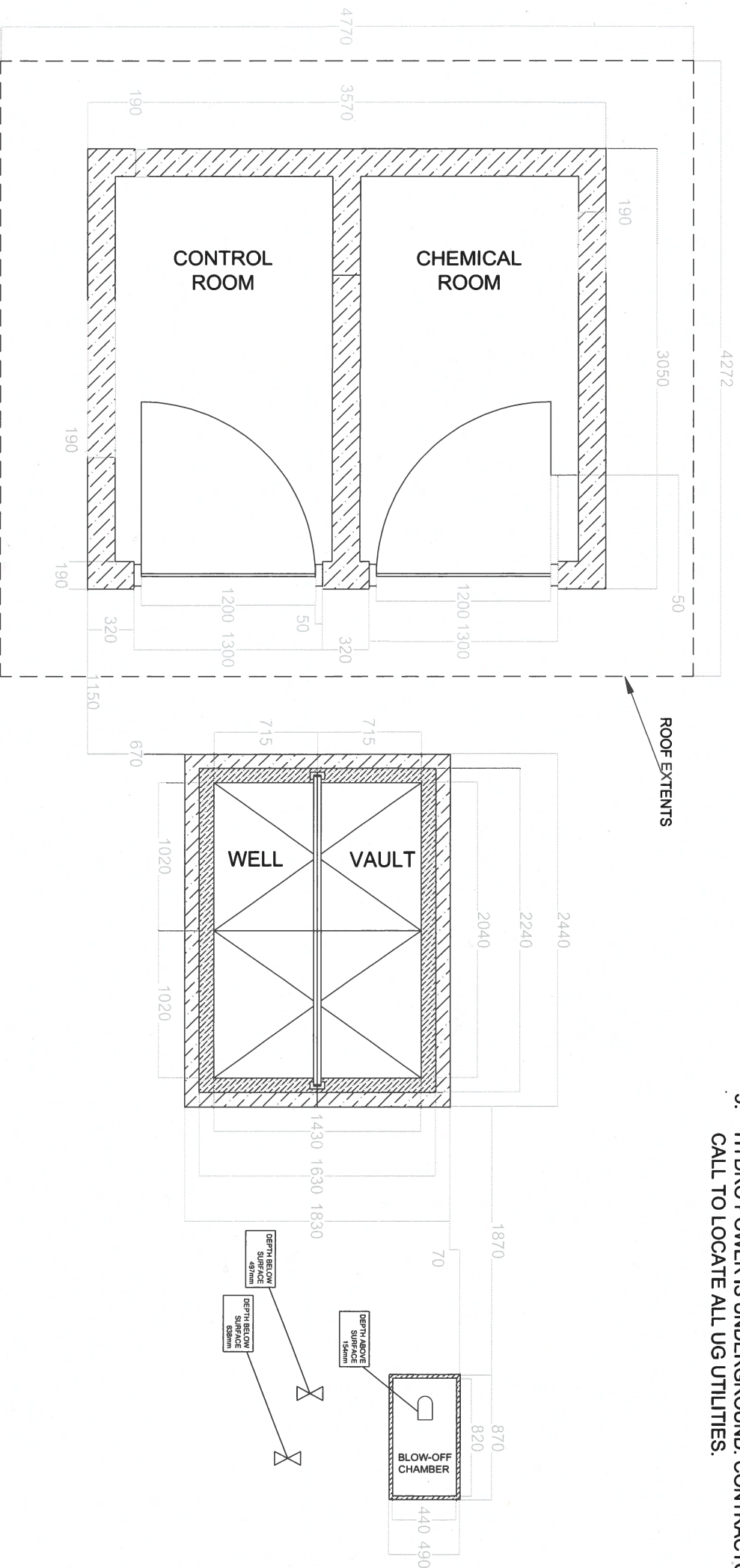
SCHEMATIC DIAGRAM



WELL INFORMATION

DATE OF CONSTRUCTION	1970-04-01
WELL TAG NUMBER	23421
DRILLER	RURAL WELL DRILLERS
BCGS NUMBER (NAD 83)	092G033343
WELL YIELD	15.142 l/s (240 US GPM)
MAX. PUMPING RATE	15.142 l/s (240 US GPM)
STATIC LEVEL	70.714 m (232 ft.)
WELL CASING DIAMETER	300mm (12 INCHES)
WELL DEPTH	110.947 m (364 ft.)
ELEVATION	0 m (0 ft.) (ASL)

<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">REVISION : 3 WITH CHANGES FROM COMMENTS</td> <td style="width: 50%;">2023-08-10</td> </tr> <tr> <td>REVISION : 2 WITH REVIEW COMMENTS</td> <td>2023-03-20</td> </tr> <tr> <td>REVISION : 1 ISSUED FOR CONSULTANTS REVIEW</td> <td>2021-05-14</td> </tr> <tr> <td>REVISION : 0 (AT INITIAL DESIGN STAGE)</td> <td>2020-05-12</td> </tr> </table>	REVISION : 3 WITH CHANGES FROM COMMENTS	2023-08-10	REVISION : 2 WITH REVIEW COMMENTS	2023-03-20	REVISION : 1 ISSUED FOR CONSULTANTS REVIEW	2021-05-14	REVISION : 0 (AT INITIAL DESIGN STAGE)	2020-05-12	<p style="text-align: center;">SUNSHINE COAST REGIONAL DISTRICT</p> <p style="text-align: center;">INFRASTRUCTURE DEPARTMENT PERMIT TO PRACTICE NO. 1003260 1975 Field Road Surrey, BC V0N 3A1 Ph: 604-885-8800 1-800-687-5753 Fax: 604-885-7909</p>				
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<p>DRAWING : EXISTING SCHEMATIC DIAGRAM</p>	<p style="text-align: center;">PROFESSIONAL ENGINEER S. T. MURRAY No. 250703 2023-08-09</p>												
<p>WORK ORDER NO. 106429</p> <p>DRAWING NO. G-02</p> <p>SHEET NO : 02 OF 12</p>													



GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. WELL CHAMBER HAS 4 SWING OPENING 5MM THICK AL/SS DOORS.
3. CONTRACTOR TO OBSERVE SITE CONDITIONS & EXISTING LAYOUT PRIOR TO ANY WORK COMMENCING.
4. IF CHANGES ARE REQUIRED TO THE DESIGN, CONTRACTOR TO OBTAIN PRIOR APPROVAL FROM THE SCR.D.
5. HYDRO POWER IS UNDERGROUND. CONTRACTOR TO MAKE BC ONE CALL TO LOCATE ALL UG UTILITIES.

KNIGHT ROAD

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CHASTER ROAD WELL AND PUMP IMPROVEMENTS

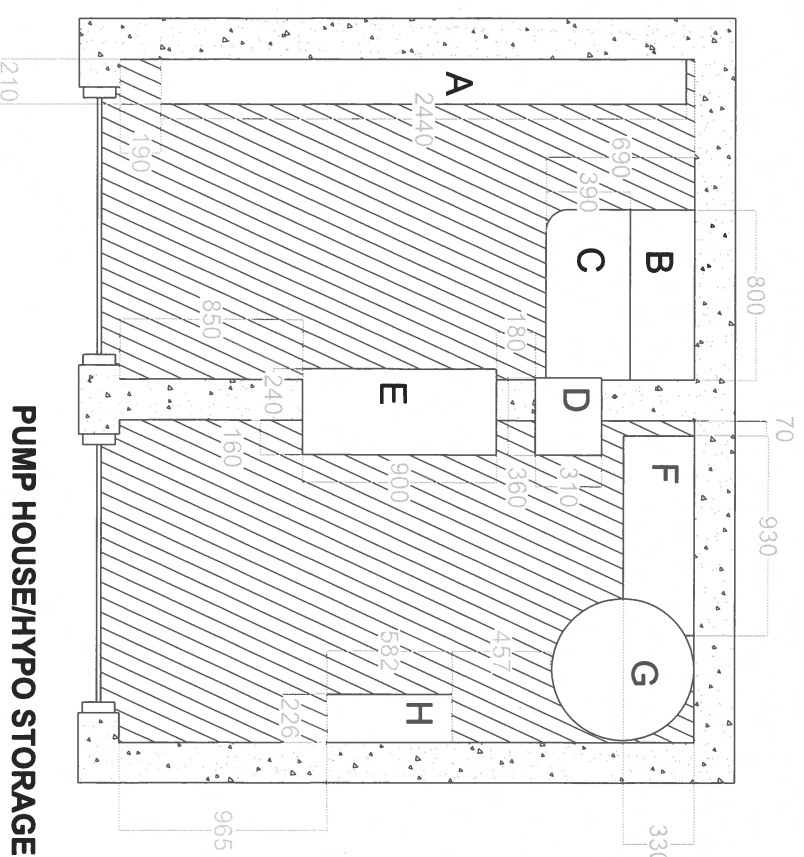
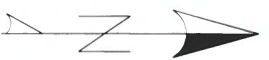
DRAWING : **EXISTING SITE PLAN**

SEAL: M. MISURAK #50703

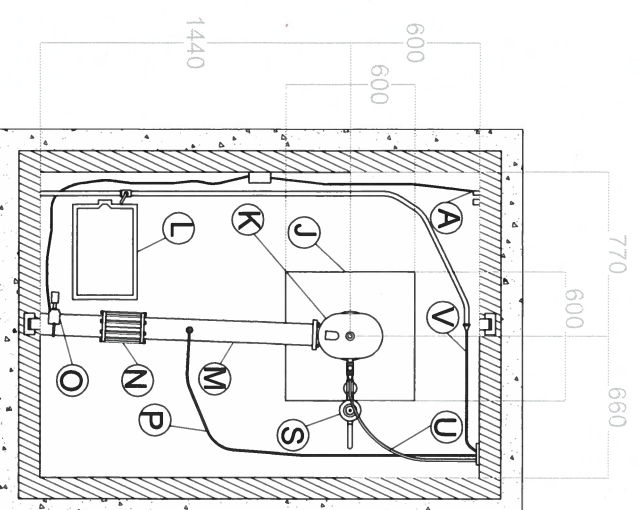
WORK ORDER NO.	106429
DRAWING NO.	G-03
SHEET NO. :	03 OF 12

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS



PUMP HOUSE/HYPO STORAGE



WELL VAULT

SCHEDULE OF DRAWING ELEMENTS	
A	ELECTRICAL CONTROL PANEL
B	BOOK SHELF
C	TABLE
D	HYPO INJECTION CONTROL PANEL
E	PUMP CONTROL PANEL/EYEWASH STN
F	HYPO INJECTION UNIT
G	HYPO CONTAINER
H	FIRST AID KIT
I	MAGNETIC FLOW METER COM: CABLE
J	WELL HEAD
K	AIR VALVE
L	SUMP CHAMBER
M	100mm DIA. FORCED MAIN
N	MECHANICAL COUPLER
O	MAGNATIC FLOW METER SENSOR
P	HYPO INJECTION PIPE
Q	GATE VALVES
R	PRESSURE GAUGE
S	SURGE PRESSURE RELIEF VALVE
T	DISCHARGE PRESSURE TRANSMITTER
U	RAW WATER SAMPLE LINE
V	TREATED WATER SAMPLE LINE FOR RESIDUAL CHLORINE ANALYZER

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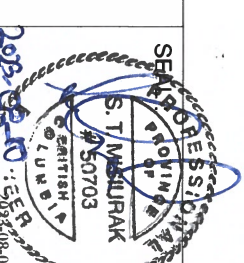


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CHASTER ROAD WELL AND PUMP IMPROVEMENTS

DRAWING : **EXISTING CONFIGURATION**



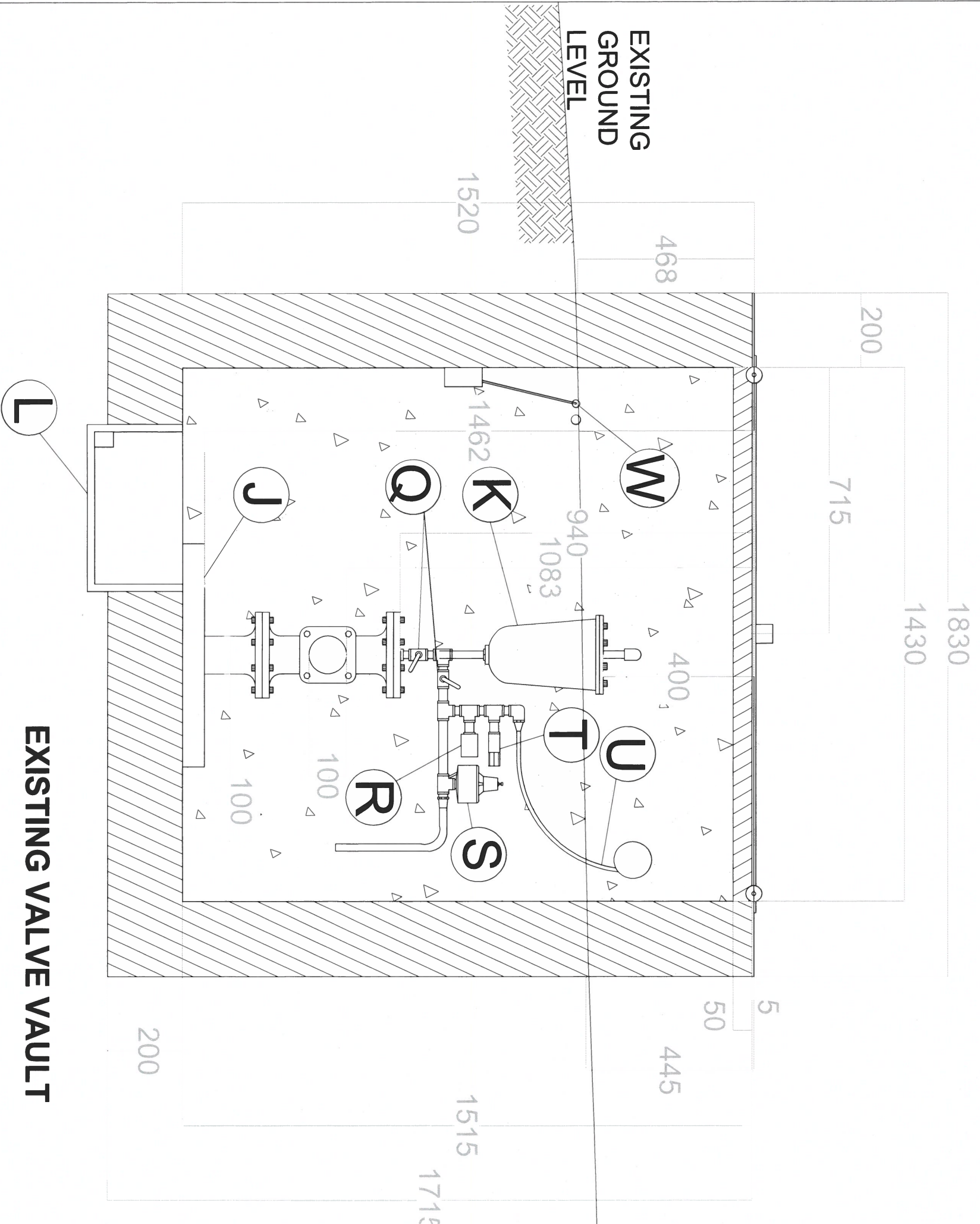
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DRAWING NO.:	C-01	
SHEET NO.:	04 OF 12	

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS

SCHEDULE OF DRAWING ELEMENTS

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
I	MAGNETIC FLOW METER COM: CABLE
J	WELL HEAD
K	AIR VALVE
L	SUMP CHAMBER
M	100mm DIA. FORCED MAIN
N	MECHANICAL COUPLER
O	MAGNETIC FLOW METER SENSOR
P	HYPH INJECTION PIPE
Q	GATE VALVES
R	PRESSURE GAUGE
S	SURGE PRESSURE RELIEF VALVE
T	DISCHARGE PRESSURE TRANSMITTER
U	RAW WATER SAMPLE LINE
V	TREATED WATER SAMPLE LINE FOR RESIDUAL CHLORINE ANALYZER
W	POWER/COMS



EXISTING VALVE VAULT

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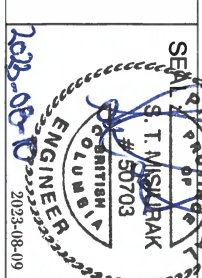


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CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

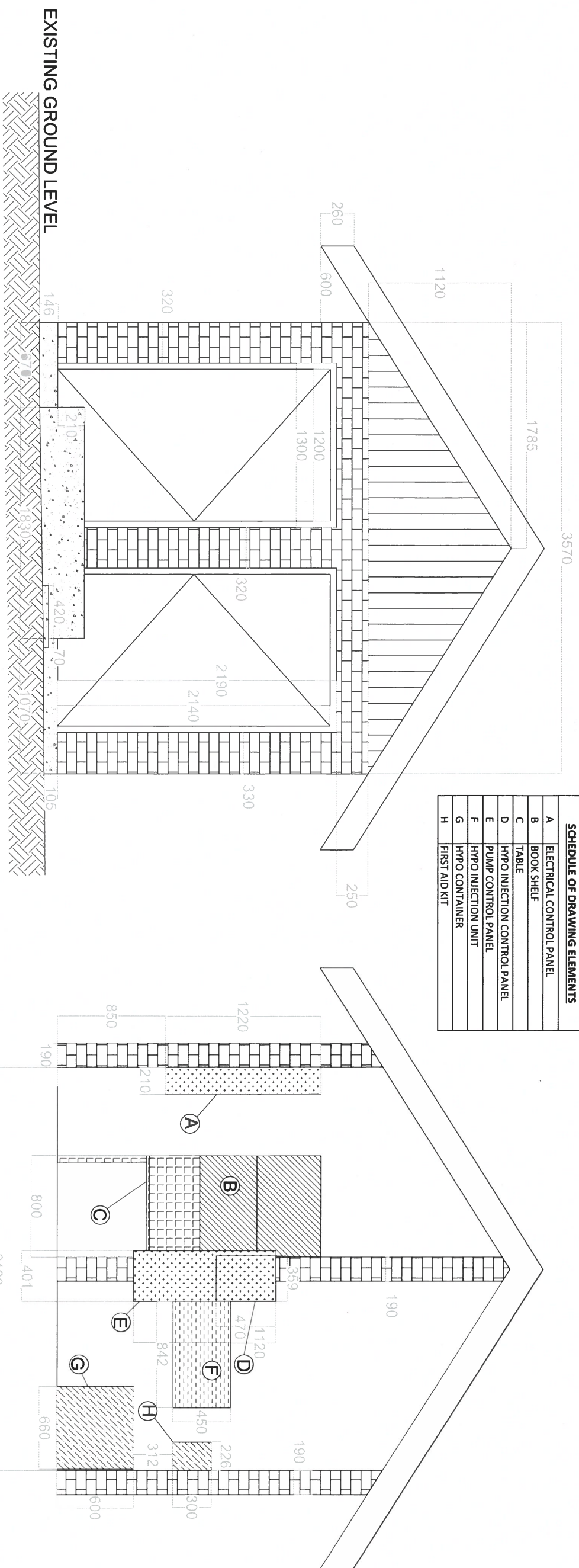
DRAWING :
EXISTING VALVE
VAULT
ELEVATION
VIEW



WORK ORDER NO.	106429
DRAWING NO.	C-02
SHEET NO. :	05 OF 12

GENERAL NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS

SCHEDULE OF DRAWING ELEMENTS	
A	ELECTRICAL CONTROL PANEL
B	BOOK SHELF
C	TABLE
D	HYPPO INJECTION CONTROL PANEL
E	PUMP CONTROL PANEL
F	HYPPO INJECTION UNIT
G	HYPPO CONTAINER
H	FIRST AID KIT



FRONT ELEVATION

A SECTION - ELEVATION

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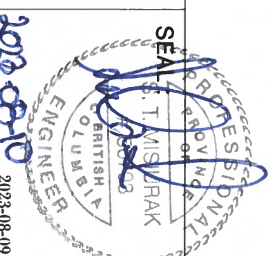


**SUNSHINE COAST
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PERMIT TO PRACTICE NO. 10032860
1975 Field Road
Sechart, BC V0N 2A1
Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	AE
DRAWN BY:	JM
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PLOT DATE:	2023-08-10

**CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS**

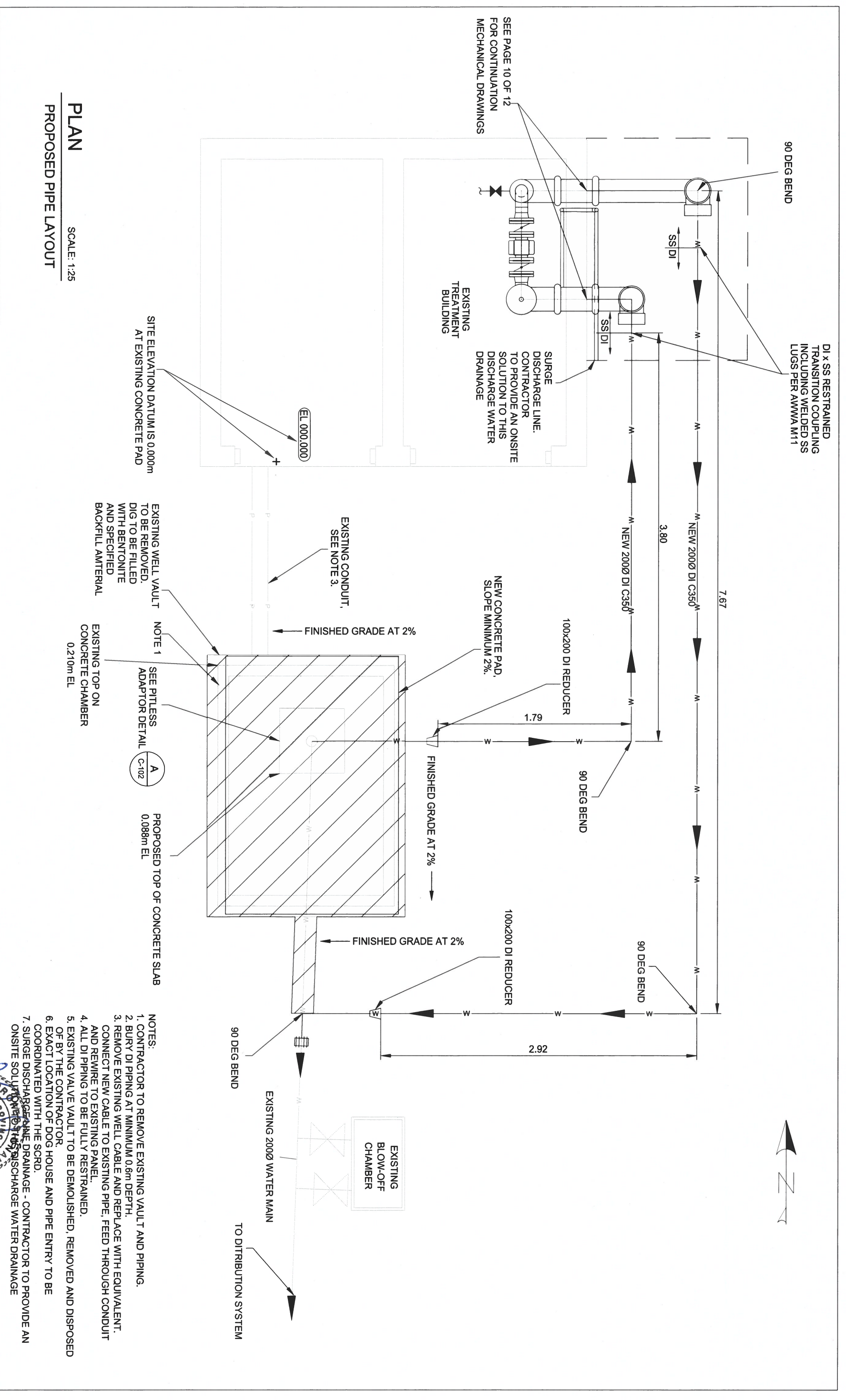
DRAWING :
**EXISTING BUILDING
CONFIGURATION**



WORK ORDER NO. 106429

DRAWING NO. C-03

SHEET NO. 06 OF 12



PLAN
SCALE: 1:25
PROPOSED PIPE LAYOUT

- NOTES:
1. CONTRACTOR TO REMOVE EXISTING VAULT AND PIPING.
 2. BURY DI PIPING AT MINIMUM 0.6m DEPTH.
 3. REMOVE EXISTING WELL CABLE AND REPLACE WITH EQUIVALENT. CONNECT NEW CABLE TO EXISTING PIPE, FEED THROUGH CONDUIT AND REMIRE TO EXISTING PANEL.
 4. ALL DI PIPING TO BE FULLY RESTRAINED.
 5. EXISTING VALVE VAULT TO BE DEMOLISHED, REMOVED AND DISPOSED OF BY THE CONTRACTOR.
 6. EXACT LOCATION OF DOG HOUSE AND PIPE ENTRY TO BE COORDINATED WITH THE SCRD.
 7. SURGE DISCHARGE LINE DRAINAGE - CONTRACTOR TO PROVIDE AN ONSITE SOLUTION TO THE DISCHARGE WATER DRAINAGE

SITE ELEVATION DATUM IS 0.000m AT EXISTING CONCRETE PAD

EXISTING WELL VAULT TO BE REMOVED. DIG TO BE FILLED WITH BENTONITE AND SPECIFIED BACKFILL AMTERIAL

EXISTING CONDUIT, SEE NOTE 3.

NEW CONCRETE PAD, SLOPE MINIMUM 2%.

EXISTING TOP ON CONCRETE CHAMBER 0.210m EL

PROPOSED TOP OF CONCRETE SLAB 0.088m EL

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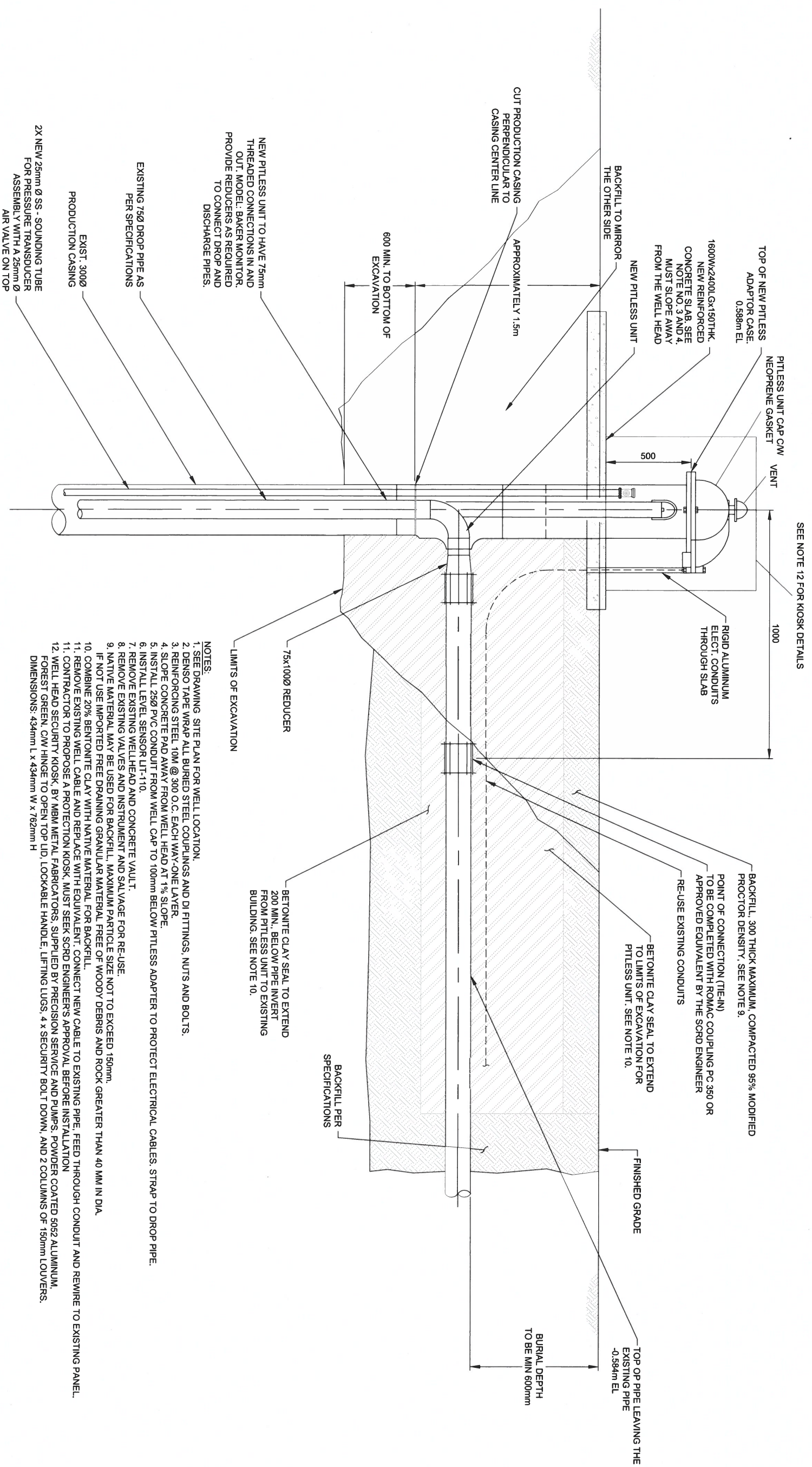
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CHASTER ROAD WELL AND PUMP IMPROVEMENTS

WELL HEAD IMPROVEMENTS PLAN

SEAL: S. MANIURAK
50703
2023-08-10
2023-08-09

WORK ORDER NO: 106429
DRAWING NO: C-04
SHEET NO: 07 OF 12



SEE NOTE 12 FOR KIOSK DETAILS

NEW PITLESS UNIT TO HAVE 75mm THREADED CONNECTIONS IN AND OUT. MODEL: BAKER MONITOR. PROVIDE REDUCERS AS REQUIRED TO CONNECT DROP AND DISCHARGE PIPES.

EXISTING 75Ø DROP PIPE AS PER SPECIFICATIONS

EXIST 300Ø PRODUCTION CASING

2X NEW 25mm Ø SS - SOUNDING TUBE FOR PRESSURE TRANSDUCER ASSEMBLY WITH A 25mm Ø AIR VALVE ON TOP

LIMITS OF EXCAVATION

BETONITE CLAY SEAL TO EXTEND 200 MIN. BELOW PIPE INVERT FROM PITLESS UNIT TO EXISTING BUILDING. SEE NOTE 10.

BACKFILL PER SPECIFICATIONS

TOP OP PIPE LEAVING THE EXISTING PIPE -0.584m EL

BURIAL DEPTH TO BE MIN 600mm

- NOTES:**
1. SEE DRAWING SITE PLAN FOR WELL LOCATION.
 2. DENISO TAPE WRAP ALL BURIED STEEL COUPLINGS AND DI FITTINGS, NUTS AND BOLTS.
 3. REINFORCING STEEL 10M @ 300 O.C. EACH WAY-ONE LAYER.
 4. SLOPE CONCRETE PAD AWAY FROM WELL HEAD AT 1% SLOPE.
 5. INSTALL 25Ø 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 VAULT.
 8. REMOVE EXISTING VALVES AND INSTRUMENT AND SALVAGE FOR RE-USE.
 9. NATIVE MATERIAL MAY BE USED FOR BACKFILL. MAXIMUM PARTICLE SIZE NOT TO EXCEED 150mm. IF NOT USE IMPORTED FREE DRAINING GRANULAR MATERIAL FREE OF WOODY DEBRIS AND ROCK GREATER THAN 40 MM IN DIA.
 10. COMBINE 20% BENTONITE CLAY WITH NATIVE MATERIAL FOR BACKFILL.
 11. REMOVE EXISTING WELL CABLE AND REPLACE WITH EQUIVALENT. CONNECT NEW CABLE TO EXISTING PIPE. FEED THROUGH CONDUIT AND REMIRE TO EXISTING PANEL.
 12. WELL HEAD SECURITY KIOSK, BY MBM METAL FABRICATORS. SUPPLIED BY PRECISION SERVICE AND PUMPS. POWDER COATED 5052 ALUMINUM. FOREST GREEN. CWV HINGE TO OPEN TOP LID. LOCKABLE HANDLE. LIFTING LUGS. 4 X SECURITY BOLT DOWN, AND 2 COLUMNS OF 150mm LOUVERS. DIMENSIONS: 434mm L x 434mm W x 762mm H

A DETAIL SCALE: NTS
PITLESS ADAPTER

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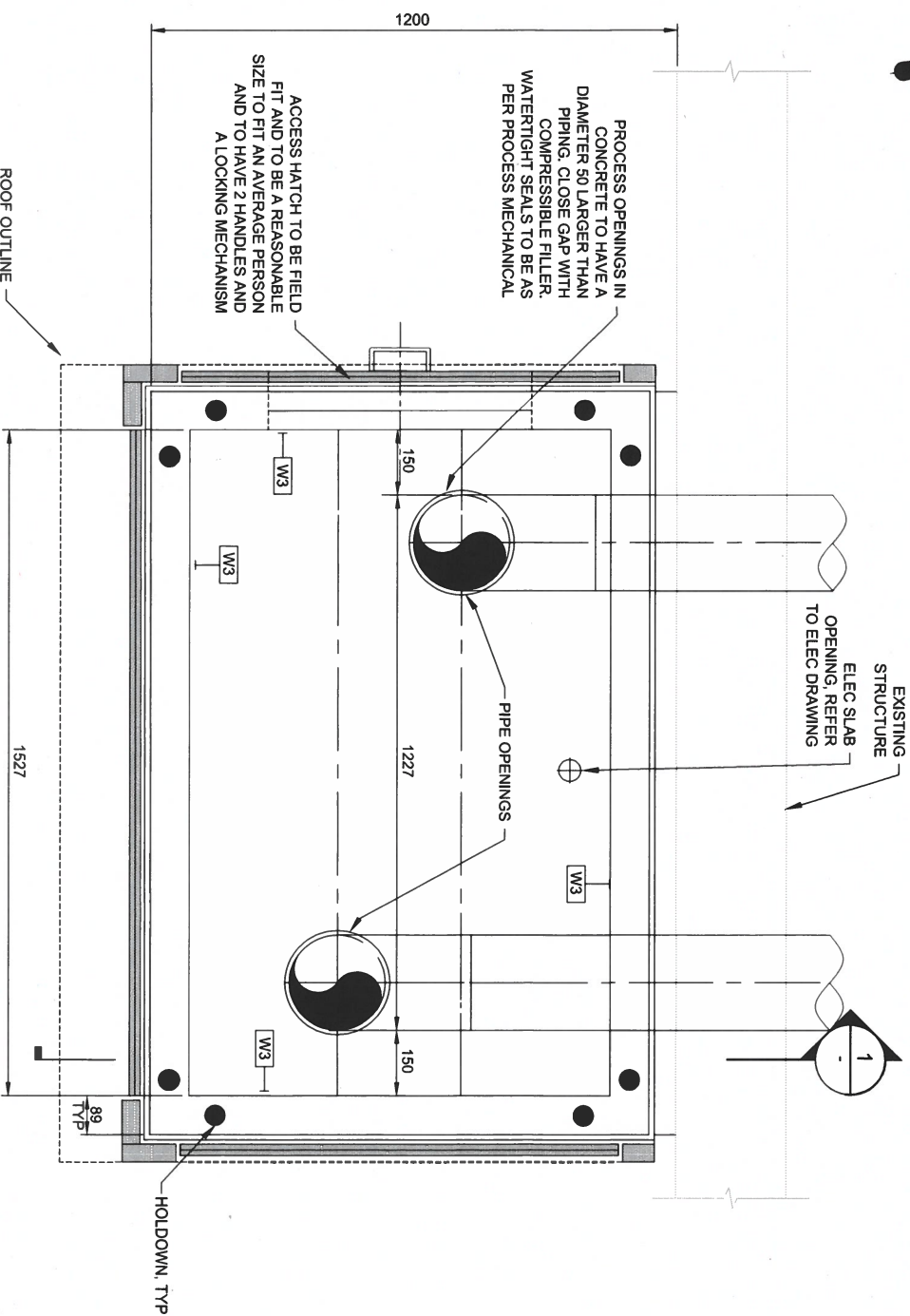
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CHASTER ROAD WELL AND PUMP IMPROVEMENTS

WELL HEAD IMPROVEMENT DETAILS



WORK ORDER NO.	106429
DRAWING NO.	C-05
SHEET NO.	08 OF 12



PLAN
1:10
NEW DOGHOUSE

- NOTES:
1. REFER TO FOR THE LOCATION OF HOLD-DOWNS.
 2. HOLD-DOWN ANCHORS TO BE APPROVED SIMPSON CAST-IN-PLACE ANCHORS.
 3. SILL PLATE ANCHOR TO BE 160 HILLI HAS RODS, EMBED 300.
 4. EMBED HOLD-DOWN ANCHORS 300 INTO MAIN SLAB.

WALL SCHEDULE				HOLD-DOWN		SILL PLATE ANCHOR	
TYPE	STUD	PLYWOOD SHEATHING (BLOCKED)	SPACING	PRODUCT	ANCHOR	ANCHOR	
SIZE	SPACING	PLY	THICKNESS	NO. OF STUDS IN END STUD STUD PACK			
W3	38x89	400	1 SIDE	2	HDU8-SDS2.5	190# HEAVY HEX HEAD ROD, GR. 36	160 @ 400

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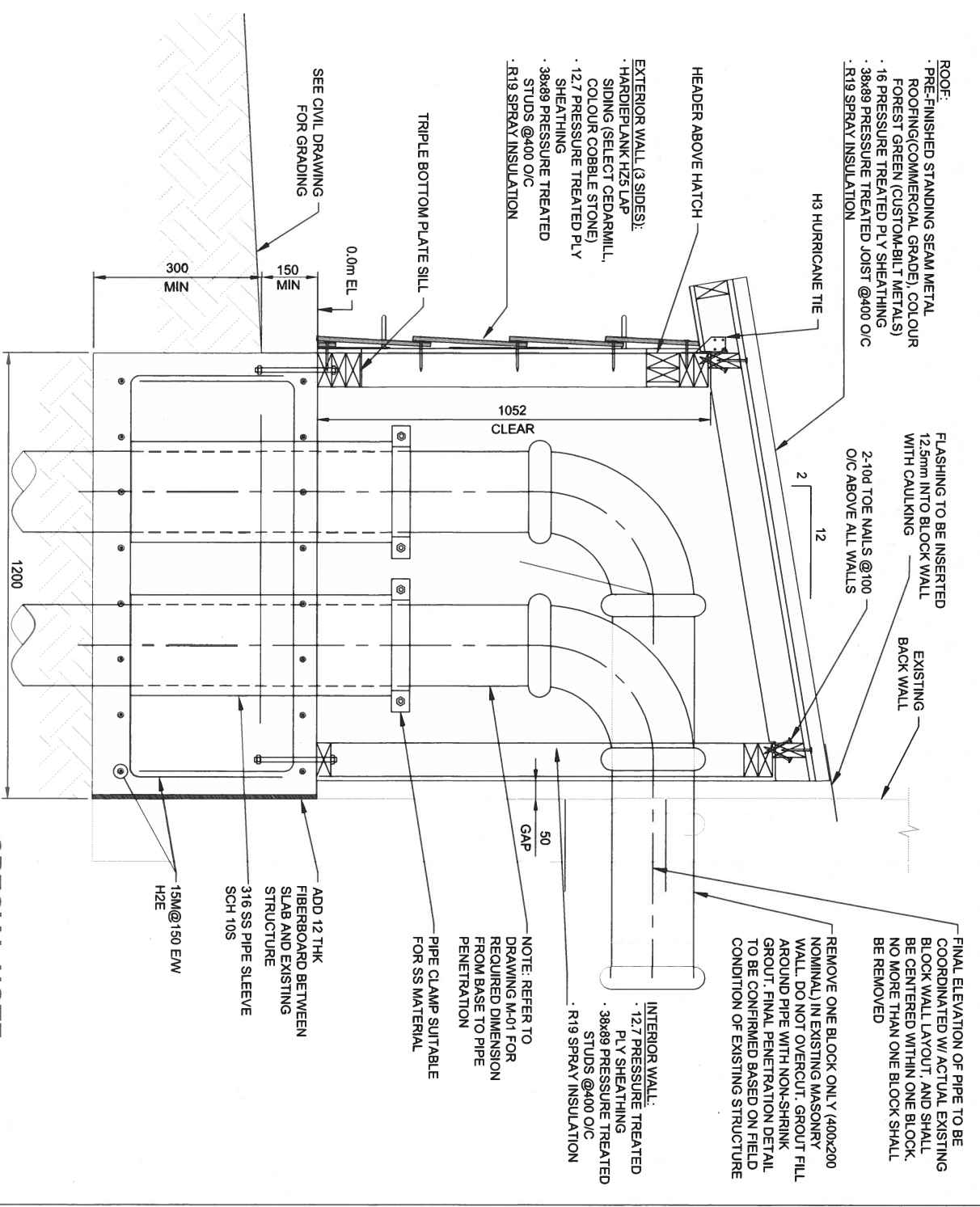
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CHASTER ROAD WELL AND PUMP IMPROVEMENTS

CIVIL & MECHANICAL PUMP STATION IMPROVEMENT DETAILS

ST. MISHRA
PROFESSIONAL ENGINEER
2023-08-09

WORK ORDER NO. 106429
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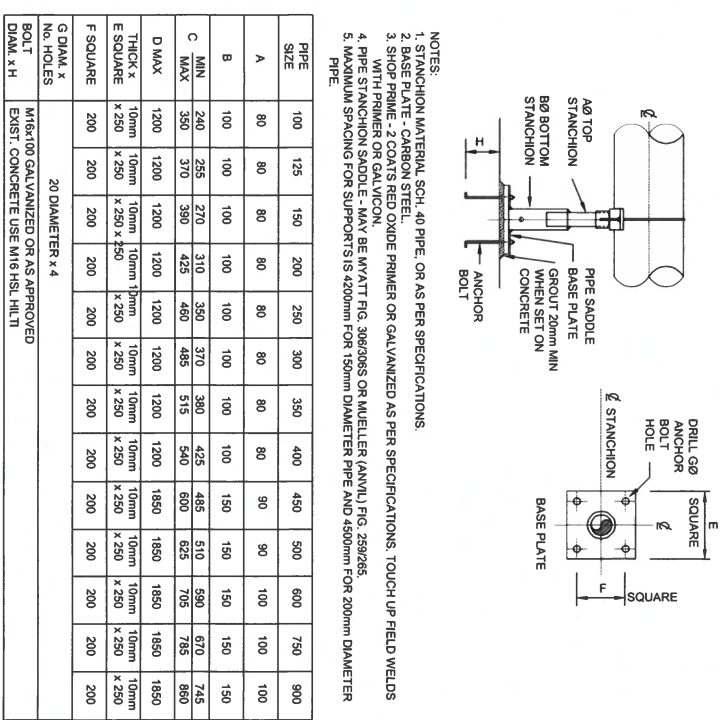
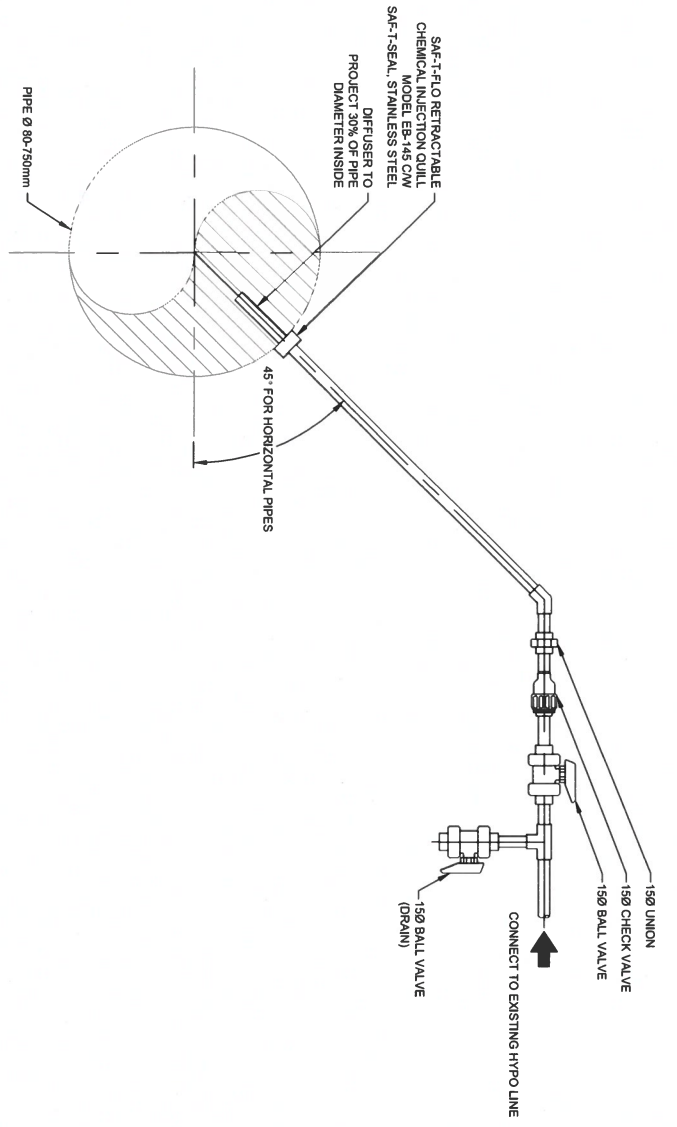
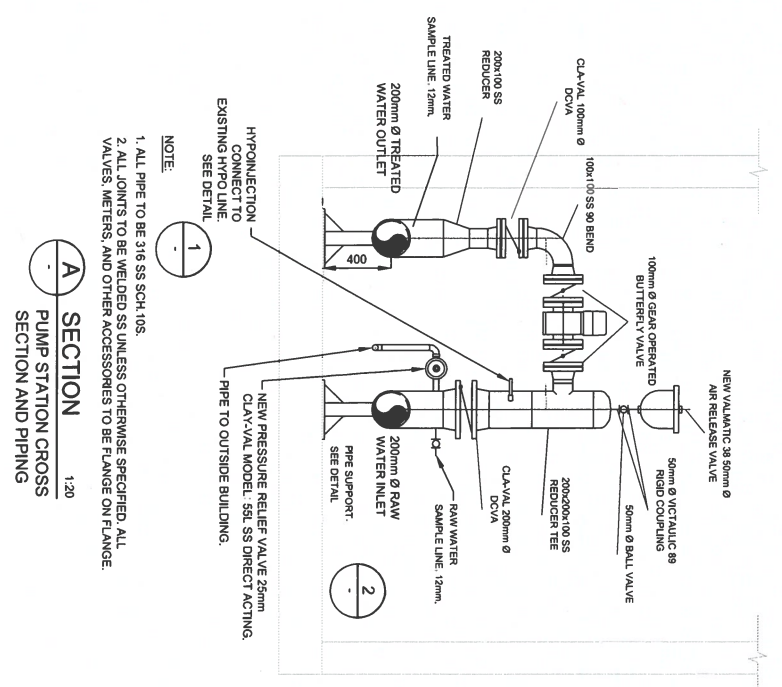
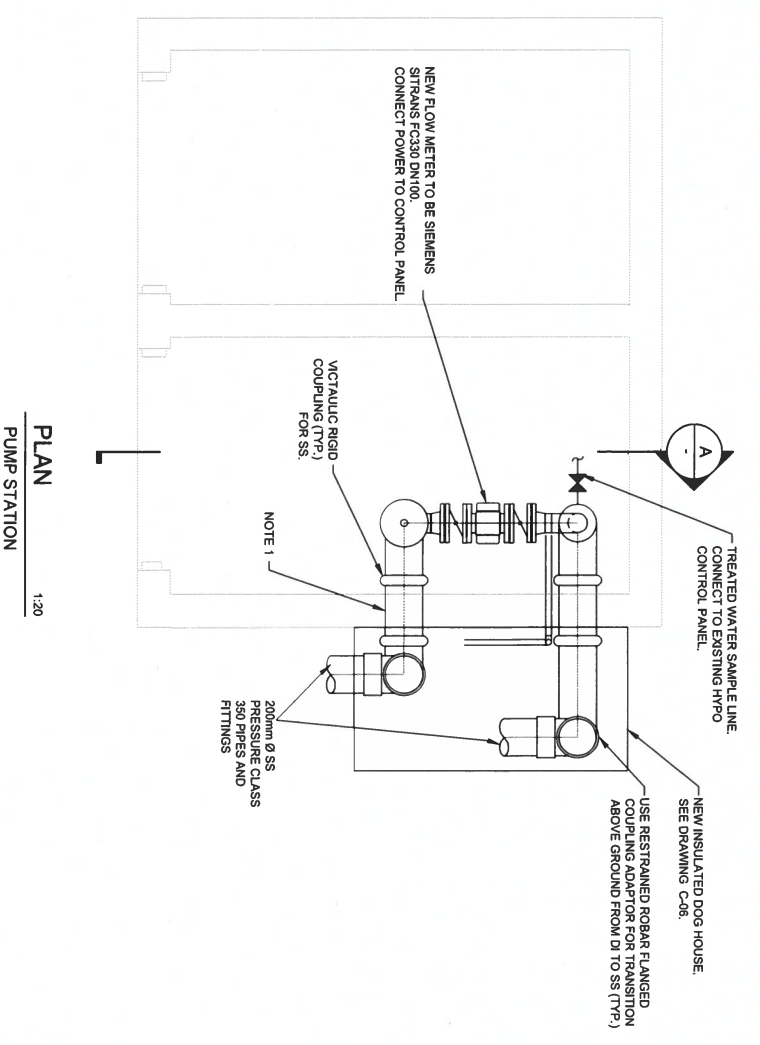


NOTES:

1. ALL WOOD STUDS AND PLYWOOD TO BE PRESSURE TREATED OR ACQ.
2. ALL FASTENERS TO BE COATED AND APPROVED FOR USE IN PRESSURE TREATED OR ACQ MATERIALS.
3. ALL CUT OR DRILLED PRESSURE TREATED OR ACQ LUMBER ENDS/FACES TO BE TREATED WITH A BRUSH-ON PRESERVATIVE. MATCH SEAM METAL ROOFING COLOUR TO EXISTING BUILDING ROOF COLOUR.
4. ALL MATERIAL AND CONSTRUCTION MEANS AND METHODS MUST MEET BC BUILDING CODE. CONTRACTOR TO SEEK APPROVAL FOR BUILDING MATERIAL BEFORE PURCHASING.

SECTION 1
DOGHOUSE
1:10

SPECIAL NOTE:
THIS DRAWING IS TO BE USED FOR BIDDING PURPOSES REFERENCES ONLY. CONTRACTOR TO PROVIDE FIELD FIT SHOP DRAWINGS FOR THE DOG HOUSE & SEEK APPROVAL FROM THE SCRD



NOTES:
 1. STANCHION MATERIAL SCH. 40 PIPE, OR AS PER SPECIFICATIONS.
 2. BASE PLATE - CARBON STEEL.
 3. SHOP PRIME - 2 COATS RED OXIDE PRIMER OR GALVANIZED AS PER SPECIFICATIONS. TOUCH UP FIELD WELDS WITH PRIMER OR GALVICON.
 4. PIPE STANCHION SADDLE - MAY BE WYATT FIG. 306306S OR KUELLER (ANVIL) FIG. 28926S.
 5. PIPE STANCHION SPACING FOR SUPPORTS IS 625mm FOR 150mm DIAMETER PIPE AND 450mm FOR 200mm DIAMETER PIPE.

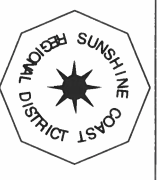
PIPE SIZE	100	125	150	200	250	300	350	400	450	500	600	750	900
A	80	80	80	80	80	80	80	80	80	80	80	80	100
B	100	100	100	100	100	100	100	100	150	150	150	150	150
C	MIN 240	255	270	310	350	370	380	425	485	510	580	670	745
C	MAX 350	370	390	425	460	485	515	540	600	625	705	785	860
D	MIN 1200	1200	1200	1200	1200	1200	1200	1200	1850	1850	1850	1850	1850
D	MAX 1200	1200	1200	1200	1200	1200	1200	1200	1850	1850	1850	1850	1850
E	THICK x 10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm
E	SQUARE x 250	x 250	x 250	x 250	x 250	x 250	x 250	x 250	x 250	x 250	x 250	x 250	x 250
F	SQUARE 200	200	200	200	200	200	200	200	200	200	200	200	200

1 DETAIL
CHEMICAL INJECTION NOZZLE (QUILL).
NTS

2 DETAIL
PIPE SUPPORT - PIPE STANCHION
WITH SADDLE (ADJUSTABLE)
NTS

REVISIONS

REVISION : 3 WITH CHANGES FROM COMMENTS	2023-08-10
REVISION : 2 WITH REVIEW COMMENTS	2023-03-20
REVISION : 1 ISSUED FOR CONSULTANT'S REVIEW	2021-05-14
REVISION : 0 (AT INITIAL DESIGN STAGE)	2020-05-12



SUNSHINE COAST
REGIONAL DISTRICT
INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003280
1975 Field Road
Sechelt, BC V0N 3A1
Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7309

DESIGNED BY:	AE
DRAWN BY:	JM
CHECKED BY:	SW
APPROVED BY:	SM
SCALE	H N/A
PLOT DATE:	V N/A

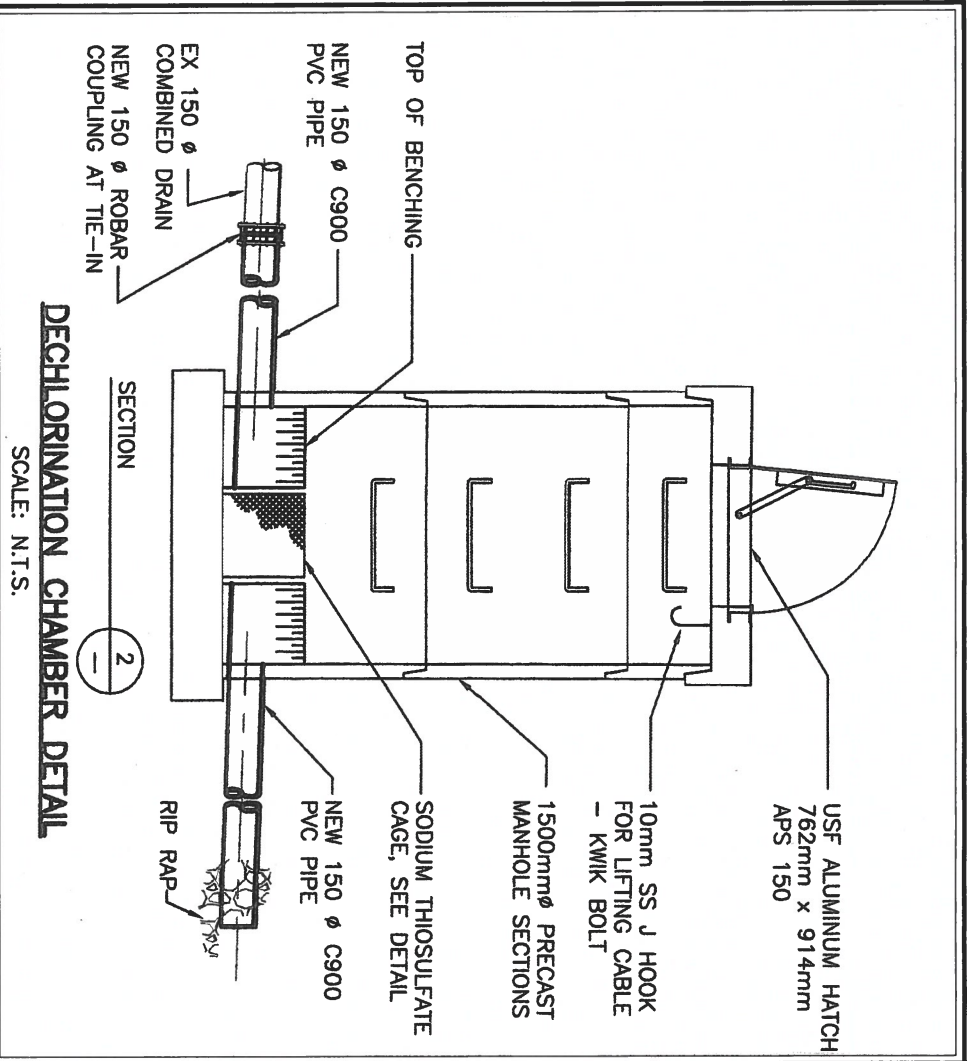
CHASTER
ROAD WELL
AND PUMP
IMPROVEMENTS

DRAWING :
MECHANICAL PROCESS
PUMP STATION
IMPROVEMENT DETAILS



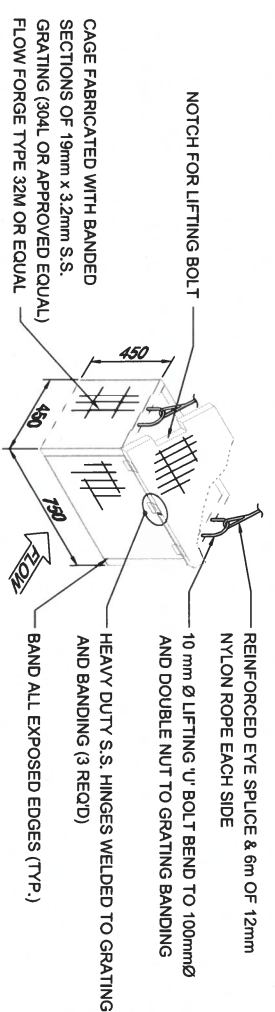
2023-08-10

WORK ORDER NO.	106429
DRAWING NO.	M-01
SHEET NO.	10 OF 12



NOTE:
 1. DECHLORINATION CHAMBER TO BE CONSTRUCTED WITH CAST-IN-PLACE OR PRE-FAB CONCRETE TO FIT THE SITE CONDITIONS.
 2. DRAIN TO DITCH MUST BE C900 200mm Ø PIPE. DRAIN MUST DAYLIGHT AFTER 1ST ACCESS DRIVEWAY.

SODIUM THIOSULFATE CAGE DETAIL



REVISIONS	
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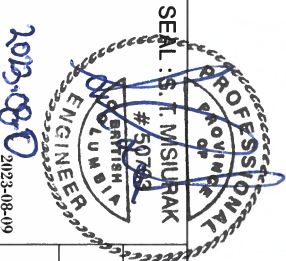


SUNSHINE COAST REGIONAL DISTRICT
 INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE NO. 1003280
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 804-885-6800 1-800-687-5733 Fax: 804-885-7909

DESIGNED BY:	AE
DRAWN BY:	JM
CHECKED BY:	SW
APPROVED BY:	SM
SCALE:	H N/A V N/A
PLOT DATE:	2023-08-10

CHASTER ROAD WELL AND PUMP IMPROVEMENTS

DRAWING : **SAMPLE DECHLORINATION CHAMBER DETAIL**



WORK ORDER NO. 106429
 DRAWING NO. C-07
 SHEET NO. 11 OF 12

STANDARD DETAIL DRAWINGS

STANDARD DETAIL DRAWINGS

STANDARD DETAIL DRAWINGS

STANDARD DETAIL DRAWING

STANDARD DETAIL DRAWING

STANDARD DETAIL DRAWINGS

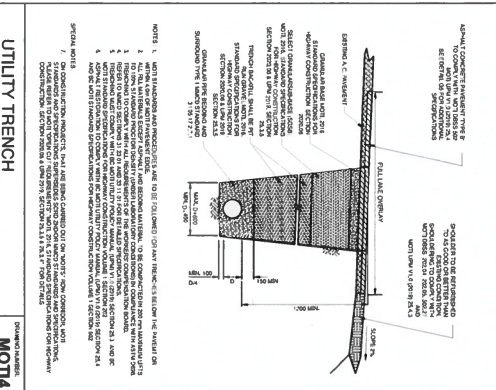
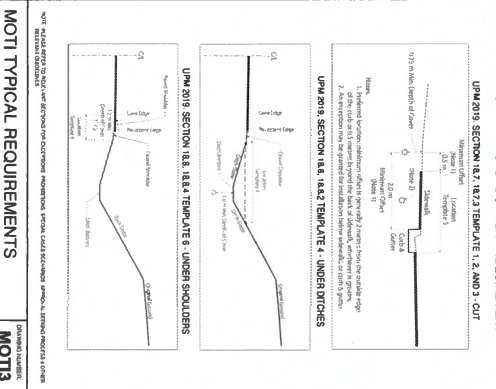
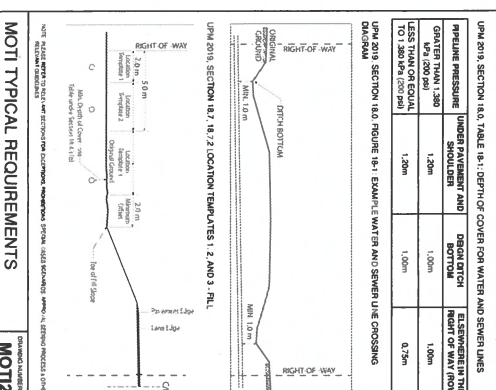
1. All the detail drawings shall be prepared in accordance with the standard detail drawings as shown in the attached drawings. The contractor shall provide all the materials and equipment as per the drawings and specifications. The contractor shall also provide all the labor and services required for the construction of the project. The contractor shall also provide all the materials and equipment as per the drawings and specifications. The contractor shall also provide all the labor and services required for the construction of the project.

INSPECTION NOTES

NO2

POLICIES AND STANDARDS

MOT11



MOT1 STANDARD DETAIL DRAWINGS

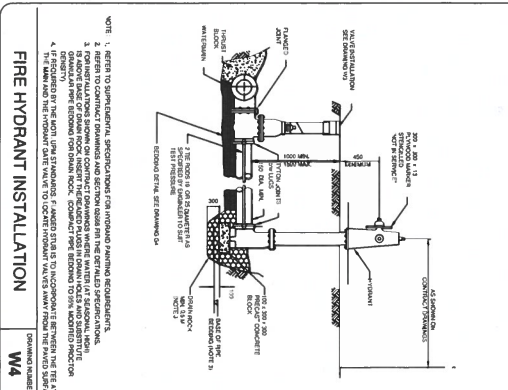
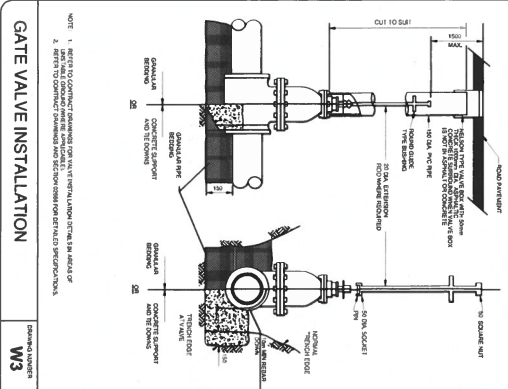
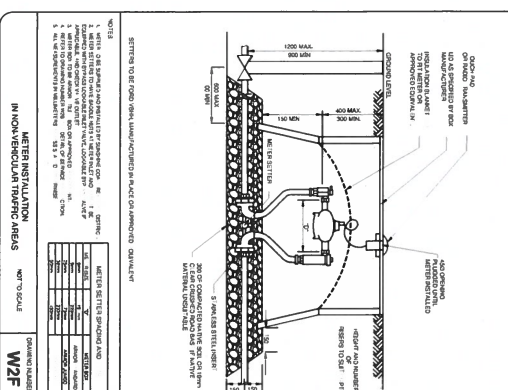
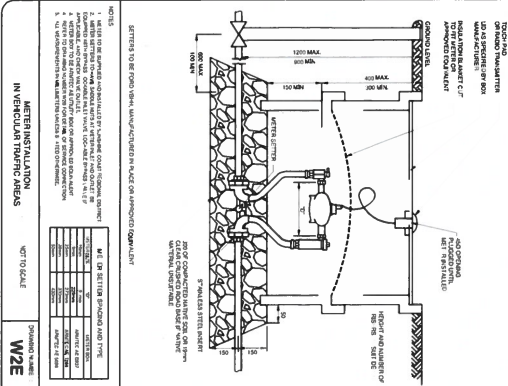
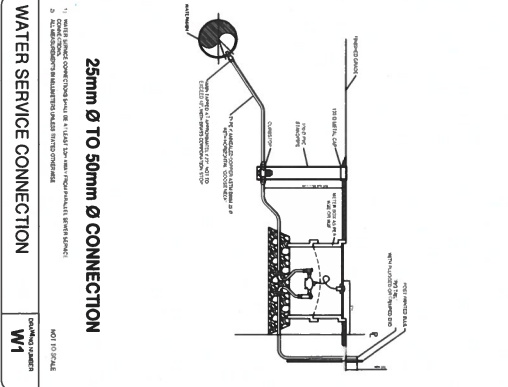
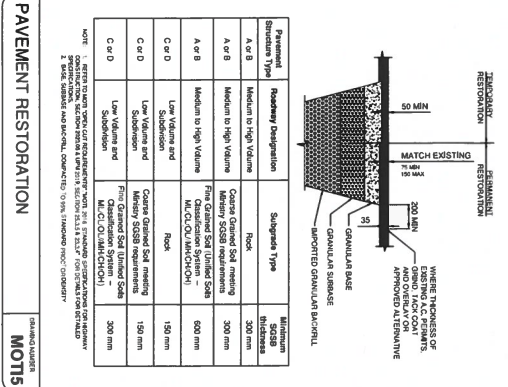
SCRD STANDARD DETAIL DRAWINGS

SCRD STANDARD DETAIL DRAWINGS

SCRD STANDARD DETAIL DRAWINGS

MMCD STANDARD DETAIL DRAWINGS

MMCD STANDARD DETAIL DRAWINGS



SCRD STANDARD DETAIL DRAWINGS

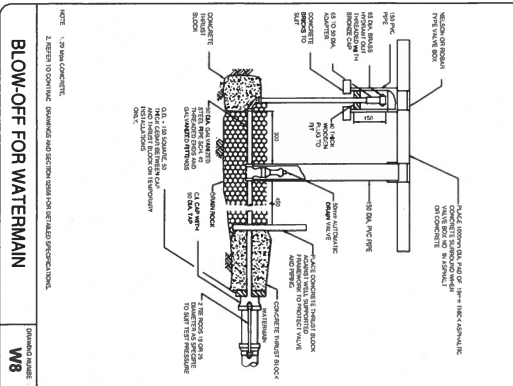
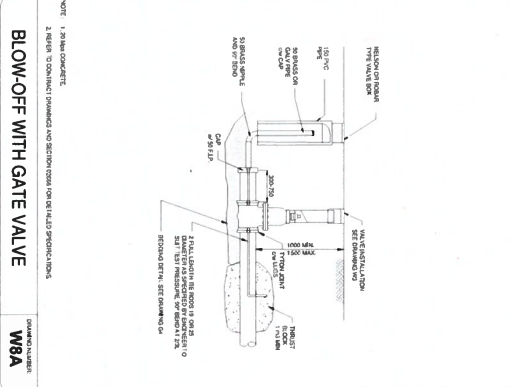
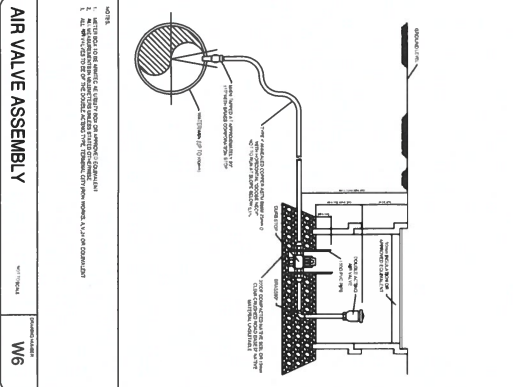
SCRD STANDARD DETAIL DRAWINGS

MMCD STANDARD DETAIL DRAWINGS

SCRD STANDARD DETAIL DRAWINGS

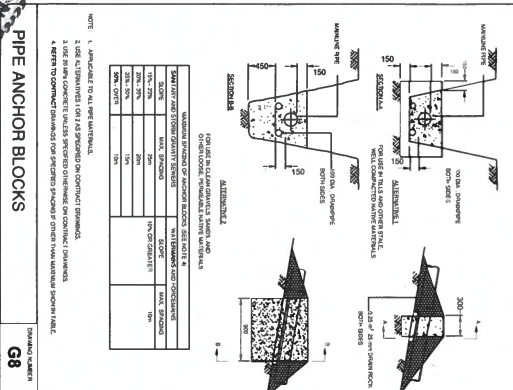
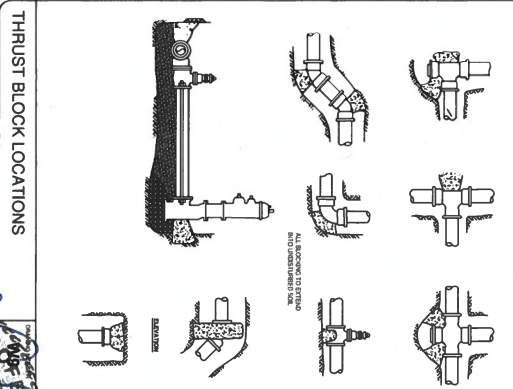
SCRD STANDARD DETAIL DRAWINGS

SCRD STANDARD DETAIL DRAWINGS



CONCRETE BLOCKING

NO.	DESCRIPTION	QTY	UNIT
1	CONCRETE BLOCKING	1	EA



REVISIONS

REVISION : 3 WITH CHANGES FROM COMMENTS 2023-08-10

REVISION : 2 WITH REVIEW COMMENTS 2023-03-20

REVISION : 1 ISSUED FOR CONSULTANT'S REVIEW 2021-05-14

REVISION : 0 (AT INITIAL DESIGN STAGE) 2020-05-12



SUNSHINE COAST REGIONAL DISTRICT
INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE NO. 1003280

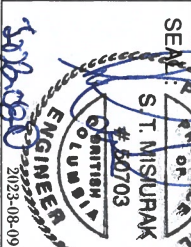
DESIGNED BY: JM
DRAWN BY: SW
CHECKED BY: SM
APPROVED BY: H N/A

CHASTER ROAD WELL AND PUMP IMPROVEMENTS

DRAWING NO. 106429

SCALE V N/A

PLOT DATE: 2023-08-10



WORK ORDER NO. 106429

DRAWING NO. C-08

SHEET NO. 12 OF 12