

Agenda

Village of Barons Regular Council Meeting Tuesday, February 13, 2023 At 7:00 p.m.

1. Call to Order
2. Guests: Gavin Nummi, Engineer and Hannah Thompson, Engineer – MPE Engineering
3. Approval of Agenda
4. Approval of January 9, 2024 Regular Council Meeting Minutes
5. Business Arising
 - a. Bylaw Enforcement Agreement
 - b. Proposed Land Use Bylaw Amendments - Seacans
6. Village Foreman Report
7. Administrator Report
8. Correspondence
9. Financial Report
10. Committee Reports
 - a. ORRSC (Oldman River Regional Services Commission)
 - b. Green Acres
 - c. CFLR (Community Futures Lethbridge Region)
 - d. FCSS (Family and Community Support Services)
 - e. Mayors and Reeves
 - f. Chinook Arch Library System
 - g. AG Society
 - h. Emergency Advisory Committee
 - i. Carmangay Library
11. New Business
 - a. Utility Relief Program Request
12. Closed Session
13. Adjournment

**MINUTES OF REGULAR MEETING OF COUNCIL
of the Village of Barons
January 9, 2024**

Present: Daniel Doell, Mayor
Ron Gorzitza, Deputy Mayor
Clinton Bishop, Councillor
Jen Durell, Administrator

Absent: Brian Passmore, Village Foreman

Recording Secretary: Jen Durell, Recording Secretary

Call to Order: Call to order at 7:00 p.m.

Guests: **Susan Sarazin – Bylaws**
Would like to discuss Land Use Bylaw. Wants to know if there is a journal or log of applications for permits to use boulevards as driveways. Speaks about not being able to drive across boulevard but some are allowed to park on boulevard.

Speaks of fire safety hazard on a residence in the Village and not having a valid permit for his home or a fire arrestor on top of his chimney.

Approval of Agenda: **Motion made by Councillor Bishop to approve the Agenda with the addition of the Bylaw Enforcement Agreement as presented. Carried**

Minutes: To accept the minutes of the December 12, 2023 Regular Council Meeting minutes as presented.

Motion made by Councillor Bishop to accept the minutes of the December 12, 2023 Regular Council meeting as presented. Carried

Business Arising: a) **Proposed Procedural Bylaw Amendments – Bylaw #756**
Council was presented with proposed Procedural Bylaw amendments for their consideration.

Motion made by Councillor Bishop to read Bylaw #756 a first time this 9th day of January, 2024. Carried

Motion made by Deputy Mayor Gorzitza to read Bylaw #756 a second time this 9th day of January, 2024. Carried

And by UNANIMOUS CONSENT of Council, a motion made by Councillor Bishop this 9th day of January, 2024. Carried

**Motion made by Mayor Doell to read Bylaw #756 a third and final time and finally passed this 9th day of January, 2024.
Carried**

Village Foreman Report: Nothing to report.

Administrator Report: Administration has sent out letters to all the service clubs in the Village regarding the Utility Relief Program. Work is underway to complete the 2023 year end reporting. Posters are now up reminding residents of the annual renewal of dog, chicken, and business licenses due by the end of January. The signage quote is now back for the complete replacement of all signs within the Village and came in better than expected. Bylaw Enforcement reports they have seized a dog from a property within the Village last week. Sewer Lagoon project should be going out to tender this week as per MPE, with tender to close in February. Administration received a letter from AB Environment regarding the water situation and drought conditions in the South zone. Currently the Province is rating the situation a 4 out of 5 as per their water management plan, which is considered a Province-wide Emergency. As such, they have put forth some recommendations for Council to consider implementing in the upcoming months, including initiating efforts to monitor water intake relative to water levels, reviewing the terms of water licenses so as to be aware of any conditions that may limit ability to draw water during drought, alerting water managers to prepare to be engaged with officials from the Drought Command Team should conditions of our water license need to be triggered, and to develop a water shortage plan.

Correspondence:

- December Bank Reconciliation
- AB Environment – Water Management Plan
- Municipal Affairs – ACP Grant Approval
- Municipal Affairs – LGFF Program Overview
- Municipal Affairs – LGFF Program
- Fortis Alberta – Estimated Distribution and Transmission Rates
- Town of Coalhurst – Holiday greeting
- EOEP – Munis 101 Registration
- STOPDED – Holiday greeting

**Motion made by Councillor Bishop to accept the correspondence as presented.
Carried**

Financial Reports: Council was presented with the accounts payable and monthly statement for the month of December, 2023.

**Motion made by Deputy Mayor Gorzitza to approve the accounts payable for the month of December, 2023.
Carried**

**Motion made by Councillor Bishop to approve the monthly statement
for December, 2023. Carried**

Committee Reports:

- a) **ORRSC**
More talk of people trying to get Land Use Bylaw surveys.
Discussed a cost increase of 6% this year
- b) **Green Acres**
Next meeting is end of January
- c) **CFLR (Community Futures Lethbridge Region)**
No meeting in December as no loans to review.
- d) **FCSS (Family Community and Social Services)**
Attended conference in Edmonton in November.
- e) **Mayors and Reeves**
Spoke of the drought conditions and how dangerous it is. Much concern about the drought conditions that will impact Southern Alberta. Spoke of Lethbridge implementing restrictions sooner due to concerns.
- f) **Chinook Arch Library System**
Discussed starting more libraries in various communities
- g) **AG Society**
Reviewed minutes as was unable to attend. Ag Society will look at renos for next year (2024) and will look at other grants and improvements to assist with those, as well with the air conditioning project. The last meeting was the final event that Cathy Jakabor will cater. Ag Society gives thanks for her hard work through the years.
- h) **Emergency Advisory Committee**
Work continues on the HIRA's. Next meeting upcoming later in January.
- i) **Carmangay Library**
Still discussing with Carmangay librarian regarding having the library come once a month, hopefully to the Seniors.

New Business:

- a) **Donation to Carmangay Junior Bonspiel**
Council was presented with a letter sent by the Carmangay Junior Bonspiel requesting a donation to the Bonspiel, which is set for February 2 and 3, 2024. The Village has contributed to this event before.

Motion made by Deputy Mayor Gorzitza to donate \$100.00 to the Carmangay Junior Bonspiel. Carried

b) Bylaw Enforcement Agreement

Council was presented with the proposed agreement for Bylaw Enforcement with the Town of Coalhurst. Discussion was held.

Motion made by Councillor Bishop to instruct Administration to negotiate with Coalhurst regarding proposed amendments to Section 17 of the proposed agreement, as well as adding clauses for deliverables as discussed.

Carried.

Closed Session:

None

Adjournment:

Adjournment of the meeting was at 8:06 p.m.

Mayor – Daniel Doell

Administrator – Jen Durell

JOINT PEACE OFFICER SHARED AGREEMENT

This Agreement made this _____ day of ~~2020~~2024.

Between:

Town of Coalhurst
PO Box 456
Coalhurst, Alberta TOL 0V0
A Municipal Corporation in the Province of Alberta,
(hereinafter called "Coalhurst")

AND

Village of Barons
PO Box 129
Barons, Alberta TOL 0N0
A Municipal Corporation in the Province of Alberta
(hereinafter called "Barons")

WHEREAS, Coalhurst and Barons are desirous of establishing an agreement for a Joint Peace Officer Program (the "Program") for the purpose of conducting municipal community education, bylaw enforcement, inter-agency collaboration, and provincial statutes enforcement in a joint operation providing assistance to each other, and for Peace Officer safety in the Municipalities, and;

WHEREAS, the Town of Coalhurst has received authorization to employ or engage Peace Officers from the Alberta Solicitor General and Public Security and is seeking an individual appointment of Peace Officers having jurisdiction for the appointed statutes within the participating municipalities, and;

WHEREAS, the Peace Officer Act, R.S.A 2007, Chapter P-3.5, requires that an agreement be entered into between the participating municipalities.

NOW THEREFORE, this Agreement witnesses that in consideration of the terms and conditions contained in this agreement, the municipalities set out as follows:

1. The purpose of this Agreement is to establish a Joint Peace Officer Program in the participating municipalities.
2. Peace Officers employed or engaged by Coalhurst may, subject to their individual appointments, have authority to enforce the following legislation and all regulations thereunder as amended from time to time, and serve court documents relating to the Authorization to Employ or Engage Peace Officers – Appendix "A". Further, the objectives of the Program are outlined in Appendix "B".
3. The term of this Agreement shall commence on the date of signing by both municipalities and shall remain in effect for a period of Three (3) years to December 31, ~~2023~~2026. The Agreement may be renewed for a further one (1) year extension with the consent of both municipalities.
4. Each Municipality shall be liable for the pro-rated shared costs of the Program including, but not limited to, office supplies, equipment, training and education, uniforms, travel, employee salaries, benefits, and disciplinary proceedings.

5. Each Municipality shall maintain general liability insurance coverage for the Joint Peace Officer Services provided under this Agreement.
6. The Program will operate on a 5 day per week, ~~7-8~~ hours/shift schedule. There will be no Peace Officers on shift on weekends or statutory holidays unless there is a special need or emergency situation requiring immediate assistance in a municipality. ~~Each community~~Barons will receive, as a target benchmark, the following Peace Officer service hours per week (~~notwithstanding which shall include a pro-rated amount for~~ staff vacation, illness, ~~reports~~, professional development, etc.) at the rate per hour as shown on attached Appendix "C".
 - ~~a. Town of Coalhurst – 28 hours~~
 - ~~b.~~a. Village of Barons – ~~7-6~~ hours
7. Time spent during the performance of court duties, disciplinary proceedings and attendance at meetings stemming from Peace Officer Services shall be included in the calculation of an individual municipality's hour allotment. In addition, time spent travelling to and from Barons shall be included in the calculation of the designated hours as set out.
8. Each Municipality will be responsible for all legal costs, veterinary services, impoundment fees and administrative assistance required for matters related to their municipality. Coalhurst agrees to accept and hold any impounded animal(s) in our impound facility and provide care for any impounded animal(s). Fees incurred for animal(s) held in Coalhurst's impound facility will be billed directly to Barons and Barons agrees to be responsible for such costs, if the owner is not found ~~and agrees or doesn't agree~~ to pay the fees. Fees shall be in accordance with Town of Coalhurst Policy No. 26-01-02 – Dog Control Fees, attached as Appendix "D", and shall be subject to amendment by Coalhurst when required, and on the condition that any amendments are provided to Barons for information purposes.
9. The participating municipalities acknowledge that any complaint received with respect to the provision of Peace Officer Services, pursuant to this Agreement, shall be immediately forwarded to the Chief Administrative Officer of the involved municipality, pursuant to the disciplinary policies in place for the Program.
10. Each municipality agrees to indemnify and save harmless the other municipality (or their agents, servants, officers, elected officials or employees) with respect to any claim, action, suit, proceeding or demand including those related to negligence, made or brought against the municipality (or, their agents, servants, officers, elected officials, or employees) by any third party with respect to any occurrence, incident, accident or happening relating to the provisions of the Program pursuant to this Agreement, excepting any occurrence, incident, accident involving negligence or intentional torts by each municipality (or their agents, servants, elected officials or employees);
11. For the purposes of this agreement, the term "department of jurisdiction" shall mean the Chief Administrative Officer of Coalhurst.
12. When a Peace Officer encounters a situation requiring enforcement in a participating municipality:
 - a. The Peace Officer will conduct the investigation in accordance with direction of the municipality having jurisdiction;
 - b. The Peace Officer will notify the Chief Administrative Officer of the municipality if the situation requiring enforcement is contentious in nature.
13. In the event of a complaint or when a request for an investigation is received from another agency, the Peace Officer shall ensure the affected municipality and Coalhurst have been notified and no action will take place until approval has been provided.

14. Any fines generated through enforcement shall be forwarded to the municipality of jurisdiction.
15. If the Authorization to employ Peace Officers is terminated by the Alberta Solicitor General and Public Security, then this Agreement will similarly be immediately terminated without any liability for termination accruing to any Municipality other than for costs incurred and payable by a Municipality prior to such termination.
16. This agreement may be reviewed periodically and any changes to this Agreement must be mutually agreed upon and made in writing and signed by the authorized representative of each municipality hereto.
17. Notwithstanding Section 13 of this Agreement, any party may terminate or suspend this Agreement on December 31 of any year in which the agreement is in place without cause by:
 - ~~a. Providing a minimum of 90 days written notice prior to December 31. to the other party at least six (6) months prior to their withdrawal, and~~
 - ~~b. The party who has provided written notice will continue funding to the end of the calendar year after the six (6) months has expired~~
- ~~18. Reports will be provided for each month prior to the end of the following month and include the number and type of files worked on. Should circumstances not allow a monthly report the CPO will make the CAO aware and will include the data in the following month's report.~~
- ~~19. A schedule for allotted hours will be provided to the CAO and billings will be consistent based on the hours allotted. Should the actual hours in one week go over or under the allotted hours those hours will then be made up for or adjusted in the following week or weeks depending on circumstances.~~
- ~~20. Any breach of this agreement shall be brought to the attention of both CAO's as soon as possible. Should the breach not be rectified within 15 working days of it being brought to the CAO's attention the agreement may be terminated by either party without additional compensation above that owed.~~
- ~~18-21.~~ 21. If any Municipality terminates this Agreement, the Alberta Solicitor General and Public Security office will be immediately advised of this termination and instructed to amend the Peace Officer appointments by removing the other municipality's jurisdiction at the time of termination.
- ~~19-22.~~ 22. This Agreement supersedes all other agreements, documents, writings and verbal understanding among the Municipalities relating to the subject matter of this Agreement and expresses the entire agreement of the Municipalities to the subject matter.
- ~~20-23.~~ 23. This Agreement shall be interpreted, construed and enforced in accordance with and under the laws of the Province of Alberta and the federal laws of Canada applicable therein. The Municipalities agree to attorn to the jurisdiction of the Province of Alberta regarding any dispute that may arise out of this Agreement.
- ~~21-24.~~ 24. In the event that any of the provisions of this Agreement should be determined to be invalid, illegal or unenforceable in any respect by a court or adjudicative body with authority to make such determinations, the validity, legality or enforceability of the remaining provisions contained in this Agreement shall not in any way be affected or impaired thereby.
- ~~22-25.~~ 25. This Agreement may be executed in any number of counterparts and delivered to the other Municipality by facsimile or electronic mail and all such counterparts when added together shall form one agreement.

IN WITNESS WHEREOF the parties have executed this Agreement as of the date first written above.

Mayor
Town of Coalhurst

Chief Administrative Officer
Town of Coalhurst

Mayor
Village of Barons

Administrator
Village of Barons

Village of Barons
Request For Decision (RFD)

Meeting:	Regular Council
Meeting Date:	February 13, 2024
Originated By:	Jen Durell, Chief Administrative Officer
Title:	Proposed Bylaw Enforcement Agreement
Agenda Item Number:	5(a)

RECOMMENDED ACTION:

Council should accept the agreement as presented to ensure ongoing enforcement of Municipal Bylaws.

BACKGROUND/PROPOSAL:

Council discussed the proposed agreement at the last meeting of Council on January 9, 2024. Administration was asked to renegotiate some of the terms of the agreement with Coalhurst that were of note.

DISCUSSION/OPTIONS/BENEFITS/DISADVANTAGES:

Administration has been researching costs for alternative contracted services. Work is ongoing.

The advantages to this revised agreement are:

1. The Town of Coalhurst has amended Section 17 as identified by Council and updated the following:
 - a. Termination and suspension of agreement timelines,
 - b. Striking section 17(b) from the proposed agreement.
2. Clauses for monthly reports and scheduling are now written into the agreement.
3. A clause for breaches of the agreement are now written into the agreement.

The disadvantages to this proposed agreement are:

1. The termination of the agreement is now set to a hard date of 90 days prior to December 31st of the calendar year.
2. The cost of the services provided are set for 2024. The Village was not consulted with prior to the setting of the budget for the CPO by the Town of Coalhurst.

FINANCIAL CONSIDERATIONS:

Total cost for 2024 is \$24,199.50. The current amount budgeted for Bylaw Enforcement is \$15,000.00, and is based on actual expenditures from the past 2 years.

RISK/CONSEQUENCES

Initials show support –

Reviewed By: CAO: Jen Durell

1. Council may provide further direction on any item contained in the report. Council shall be specific in the direction it provides.

ENCLOSURES:

1. Proposed Bylaw Enforcement Agreement with redline amendments.
2. Previous Bylaw Enforcement Agreement
3. Previous RFD for information purposes

Village of Barons
Request For Decision (RFD)

Meeting:	Regular Council
Meeting Date:	January 9, 2024
Originated By:	Jen Durell, Chief Administrative Officer
Title:	Proposed Bylaw Enforcement Agreement
Agenda Item Number:	11(b)

BACKGROUND/PROPOSAL:

Coalhurst and Barons are desirous of establishing an agreement for a Joint Peace Officer Program for the purpose of conducting municipal community education, bylaw enforcement, inter-agency collaboration, and provincial statutes enforcement in a joint operation providing assistance to each other. The Town of Coalhurst has the authorization to employ or engage Peace Officers from the Alberta Solicitor General and Public Security and is seeking an individual appointment of Peace Officers having jurisdiction for the appointed statutes within the participating municipalities, and the Peace Officer Act, R.S.A 2007, Chapter P-3.5, requires that an agreement be entered into between the participating municipalities.

DISCUSSION/OPTIONS/BENEFITS/DISADVANTAGES:

Under the *Municipal Government Act RSA 2000, Chapter M-26, Section 555*, a Bylaw Officer may be appointed to execute enforcement duties and preserve and maintain public peace.

The Village of Barons requires Bylaw Enforcement services which has historically been provided by the Town of Coalhurst. The Town of Coalhurst has provided Council with a proposed agreement for Bylaw Enforcement to commence on the date of signing and be in effect for three (3) years.

The advantages to this proposed agreement are:

1. The Village will see consistent enforcement of the Municipal Bylaws and Traffic Safety Act, and increased compliance with Municipal Bylaws.
2. By contracting the Town of Coalhurst again for Bylaw Enforcement duties, there is an increased familiarity with our Municipal Bylaws.
3. There is less workload for the Municipal Staff to ensure compliance is occurring.
4. There is stability in a three (3) year agreement.
5. Hourly remuneration will be reviewed each year and provided to the Village in December to be applied in the following year.

The disadvantages to this proposed agreement are:

Initials show support –

Reviewed By: CAO: Jen Durell

1. The Village would lose 1 hour of enforcement per week compared to our previous agreement with Coalhurst. The prior agreement was for seven (7) hours weekly, whereas the proposed agreement has six (6) hours weekly.
2. The Village would be moving to a set schedule of enforcement, whereas, the previous agreement had flexibility to decide days and times when the Bylaw Officer would be in attendance.
3. The cost of the services provided have increased. While hourly the cost has only increased \$6.61/hr, the total annual cost has risen from a budgeted amount of \$15,000.00 (2023 Actual was \$6,119.85) to \$24,199.50. This reflects an increase of 61.33% over the 2023 budgeted amount.

FINANCIAL CONSIDERATIONS:

Total cost is \$24,199.50. The current amount budgeted for Bylaw Enforcement is \$15,000.00.

RECOMMENDED ACTION:

1. Council could consider signing the agreement.
2. Council could consider asking for amendments to the agreement as presented.
3. Council could consider alternative contracted services.

ENCLOSURES:

1. Proposed Bylaw Enforcement Agreement
2. Previous Bylaw Enforcement Agreement

Memo

To: Jen Durell, CAO

File: 5F-38

From: Kattie Schlamp, Planner

Date: February 8, 2024

Re: Review of Municipalities allowing Shipping Containers in Residential Districts

Overview

In December 2023 a discussion was had with Council regarding the potential use of shipping containers on a permanent basis within the Residential land use district. Although shipping containers are promoted to save time, lumber, and waste, they can also become difficult for municipalities to enforce and may change the fabric of the community by bringing an industrial feel to the residential environment.

Due to the negative impacts and possible enforcement concerns permanent shipping containers can bring to residential areas, it was not recommended that shipping containers be permissible as permanent use within the residential land use districts or as a building material.

Council requested that additional information be gathered to understand what other municipalities within the ORRSC region allow.

Summary

The following is a summary of urban municipalities within the ORRSC region and their current position on permanent shipping containers within residential districts of their respective Land Use Bylaws. Where upcoming changes to the bylaw were provided, they have been noted. No references to temporary shipping containers were made as the previous discussion was focused on the use on a permanent basis and Baron's Land Use Bylaw currently allows for shipping containers on a temporary basis.

All municipalities are located within Southern Alberta however not all municipalities referenced are members of ORRSC. Of the 20 municipalities reviewed, only two currently allow permanent shipping containers as a permitted or discretionary use. The remaining 18 municipalities have prohibited the permanent use of shipping containers in residential districts. One of the municipalities did recently consider allowing permanent shipping containers however they ultimately decided to continue to prohibit them. Where additional comments were provided, an asterisk has been placed beside the municipality and further information has been provided below the table.

Permanent Shipping Containers in Residential Land Use Districts		
Municipality	Current Regulations	Upcoming Changes
Bassano	Prohibited	N/A
Brooks	Prohibited	N/A
Carmangay	Prohibited	N/A
Champion	Prohibited	N/A
Claresholm	Prohibited	N/A
Coaldale	Prohibited	N/A
Coalhurst	Prohibited	N/A
Fort Macleod	Prohibited	Will remain prohibited in forthcoming land use bylaw update.
Glenwood*	Permitted	Moving to Prohibited in land use bylaw update.
Hill Spring	Prohibited	N/A
Magrath	Prohibited	N/A
Milo	Prohibited	N/A
Nanton	Prohibited	N/A
Nobleford	Prohibited	N/A
Picture Butte*	Prohibited	N/A
Stavely	Prohibited	N/A
Taber (Town)	Prohibited	N/A
Vauxhall	Prohibited	N/A
Vulcan (Town)	Prohibited	N/A
Warner (Village)*	Discretionary	N/A

Additional Information

Glenwood

The Planner for the Village of Glenwood indicated that the municipality plans to move the permanent use of shipping containers to the prohibited use category in upcoming land use bylaw amendments. The municipality felt the allowance of permanent shipping containers resulted in an industrial feel to the residential district.

Picture Butte

The Town of Picture Butte considered the idea of adding shipping containers to select residential districts. The former Planner indicated the proposed standards included measures to make the shipping containers appearance less industrial by requiring pitched roofs and wrapping the shipping container in siding. Ultimately, Council decided not to move forward with changes to the bylaw so as to not lead to enforcement issues in the future.

Warner

The Planner for the Village of Warner has indicated the Village has not had issues with the inclusion of shipping containers as a discretionary use in the residential districts. It has been included in the bylaw since its adoption in 2013 however only one application has been made for a permanent shipping container in the residential district. Their land use bylaw specifies several standards required for shipping containers, including requiring the container to be sand blasted and/or painted in a neutral colour, the restriction of signage on the container, and requiring the container to be screened from view.

Next Steps

Council should carefully consider the goals of the community and how they would like the residential districts to feel when determining if shipping containers should be allowed on a permanent basis in residential districts. From a planning perspective, it is not recommended that permanent shipping containers in residential districts be added to the Village of Baron's land use bylaw due to the negative impacts and possible enforcement concerns they may bring, as discussed in the memo dated December 7, 2023 provided to Council previously (a copy of which has been enclosed) and concerns raised by residents about the aesthetic of residential properties.

Should Council wish to move forward with amendments to the Land Use Bylaw to add permanent shipping containers as a use in either the Residential – R and/or Residential Manufactured Home – R2 district. It is recommended that the use be discretionary and that additional standards be added to the bylaw to regulate the use within residential districts. With Council's direction a proposed bylaw amendment with suggested standards can be brought forward to a future Council meeting for discussion and consideration.

If first reading is given to the bylaw, then a Public Hearing will be advertised in accordance with Section 606 of the MGA and held at the following meeting. Following the Public Hearing, second and third reading may be given to the bylaw as proposed or amendments can be made prior to adoption.



Village of Barons Non-Profit Utility Relief Program

Application For Non-Profit Utility Exemption

Date: Jan. 16, 2024

1. Name of Organization: Barons Memorial United Church

2. Society Number: _____ Email: gibb@ulth.ca
pbttrinity@shaw.ca

3. Contact Person: Robbin Gibb Position: Chairperson
Sandra Hergenhein Treasurer

Mailing Address: Box 272, Barons

Postal Code: T0L 0G0 Tel: 403-360-7124

4. Purpose of Organization: The United Church seeks to provide an opportunity to enjoy an authentic relationship with God for all →

5. Physical Address of Property: 205 Queen Street

Legal Description of Property: _____

6. Executives of Your Organization:

President/Chairperson: Robbin Gibb

Vice President/Vice Chairperson: Mary Bishop

Treasurer: Sandra Hergenhein (Picture Butte - Trinity)

7. Current Total Membership: Although we have limited membership (N5) our services on average reach 15-30 people.

Number of Meetings per year: 6 (min) in person - additional 300m services

8. What types of services/programs does your organization provide: church services, pastoral can

The Church hosts the PCSS Stay and Play on Wednesdays, as well as a venue for weddings, funerals, bridal showers etc. outside our church services

people, from all backgrounds.



Village of Barons Non-Profit Utility Relief Program

9. What portion of your activities are considered:

Non-Profit 100%

Recreational/Athletic _____

Commercial _____

10. What are your current membership fees? (if applicable)

Members: n/a General Public: n/a

When was your last fee increase: _____

What was your last fee increase: _____

11. Has your organization received any of the following in the past:

Grant in Aid

NO/YES	Amount	Year	Purpose

Waiver/reduction of utility fees and/or charges

NO/YES	Amount	Year	Purpose
YES			we have never been charged utilities or taxes since I
			have been a member of the church

so I do not know how much

Rebbin L Gibbs
Signature of Applicant

Jan. 16, 2024
Date

Barons Memorial United Church
Statement of Income & Expenses as at December 31, 2022
and 2023 Budget

Income	2022 Actual	2022 Budget	2023 Budget
Offerings	\$ 1,706.00	\$ 1,000.00	\$ 1,500.00
Donations	0.00	2,000.00	
Fundraising	0.00	500.00	
Thrift Store	7,689.21	10,000.00	7,500.00
Church Business (Hall Rental)	2,100.00	1,000.00	1,800.00
Interest	.03		
	<u>\$11,495.24</u>	<u>\$14,500.00</u>	<u>\$10,800.00</u>
Expenses			
Trinity Allotment	\$5,000.00	\$ 5,000.00	\$5,000.00
Direct Energy (natural gas)	2,409.94	1,800.00	2,700.00
Epcor (power)	1,560.40	1,400.00	1,800.00
Insurance	500.00	500.00	500.00
Office Supplies	4.00		
Repairs & Maintenance	257.26	1,000.00	500.00
Fundraising Costs	0.00	100.00	
M&S Pledge	0.00	50.00	
Tablet Wifi	225.33	0.00	260.00
Technology Expense	355.36	0.00	
Thrift Shop Expenses	1,847.36		
GST Expense	177.96		
Bank/Square Charges	38.81		40.00
	<u>\$12,376.42</u>	<u>\$ 9,850.00</u>	<u>\$10,800.00</u>
Deficit/Gain	<u>(\$881.18)</u>	<u>\$ 4,650.00</u>	<u>\$0.00</u>

INDEPENDENT REVIEW REPORT

I have examined the accompanying balance sheet and statement of receipts and disbursements of Barons Memorial United Church for the year ended December 31, 2022. My examination included checking the books and accounts and a verification of accounts with the bank statements and cash balances. In my opinion, the accompanying statements present fairly the financial operations and recorded receipts and expenditures.

Signed: _____

Date: _____

Barons Memorial United Church
Statement of Income & Expenses as at December 31, 2021
and 2022 Budget

Income	2021 Budget	2021 Actual	2022 Budget
Offerings	\$ 1,200.00	\$ 100.00	\$ 1,000.00
Donations	2,000.00	2,675.00	2,000.00
Fund Raising	2,000.00	355.00	500.00
Church Business (Hall Rental)	1,500.00	900.00	1,000.00
Thrift Store	4,000.00	7,369.46	10,000.00
	<u>\$10,700.00</u>	<u>\$11,399.46</u>	<u>\$14,500.00</u>
Expenses			
Trinity Allotment	\$5,000.00	\$ 5,000.00	\$5,000.00
Direct Energy (natural gas)	1,600.00	1,683.33	1,800.00
Epcor (power)	1,400.00	1,294.17	1,400.00
Insurance	500.00	500.00	500.00
Repairs & Maintenance	1,000.00	55.00	1,000.00
Fund Raising Costs	100.00	0.00	100.00
M&S Pledge	50.00	0.00	50.00
Bank Service Charges		7.00	
GST Expense		76.04	
	<u>\$9,650.00</u>	<u>\$ 8,615.54</u>	<u>\$9,850.00</u>
Deficit/Gain	<u>\$1,050.00</u>	<u>\$ 2,783.92</u>	<u>\$4,650.00</u>

INDEPENDENT REVIEW REPORT

I have examined the accompanying balance sheet and statement of receipts and disbursements of Barons Memorial United Church for the year ended December 31, 2021. My examination included checking the books and accounts and a verification of accounts with the bank statements and cash balances. In my opinion, the accompanying statements present fairly the financial operations and recorded receipts and expenditures.

Signed: *Jenna White*

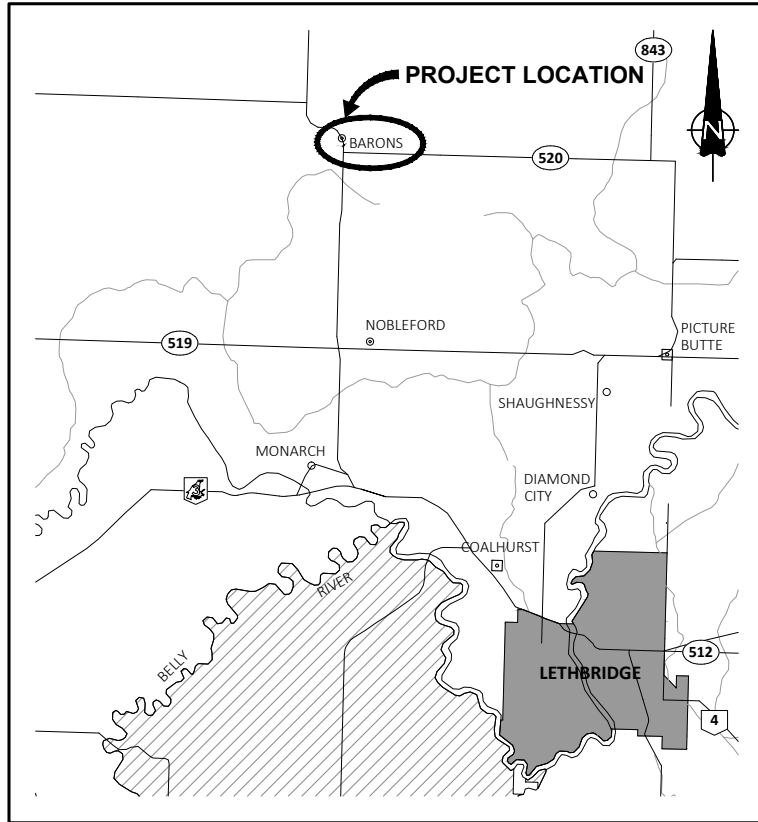
Date: *Feb 21/22*

Village of Barons
THE MONTH January, 2024
2024 Monthly Statement Ending: January 31, 2024

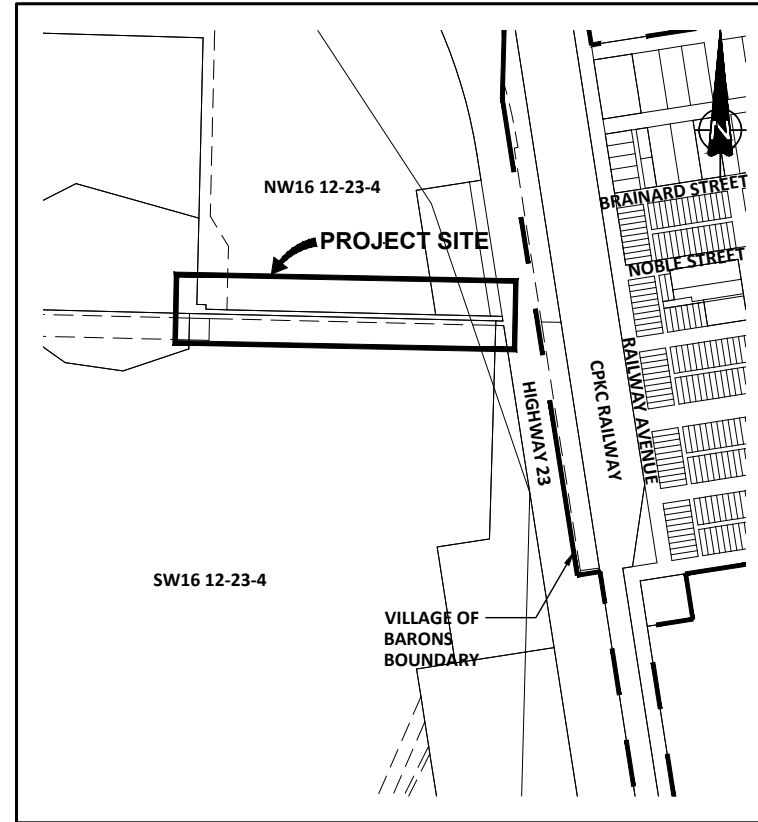
	<u>Revenue</u>	<u>Expenses</u>
Taxes	\$9,288.04	
General Administrative	\$120.00	\$14,063.29
Council		\$1,713.91
Fire Hall		\$812.59
Bylaw Enforcement	\$650.00	
Shop		\$2,610.11
Roads and Streets		\$3,010.98
Water/Sewer/Garbage	\$24,125.71	\$10,564.59
Green Acres Requisition		
Recreation Facilities/Parks		\$388.96
Casual Wages/STEP		\$2,623.50
Legal		\$1,006.38
FCSS Requisition		
Chinook Arch		\$1,742.16
Requisition - School		
Bulk Water	\$204.00	
Auditor		
Xplornet	\$600.00	
Carwash		
Insurance		
ORRSC		\$2,382.86
Fortis Alberta Franchise	\$956.05	
Assessor		\$1,582.00
MPC		
Sewer Lift Project		
Grants		
ATCO Gas Franchise Fee	\$1,277.55	
Debenture		
Treated Water - Nobleford		
Total	\$37,221.35	\$42,501.33

Bank Balance - as of January 31, 2024	\$223,612.56
Outstanding Cheques (as December 31, 2023)	\$25,406.06
GIC	\$370,994.07

2023 Taxes Owing	\$38,209.73
Outstanding Taxes - Prior to 2023	\$3,827.10
Total Outstanding Taxes	\$42,036.83



LOCATION PLAN



SITE PLAN



VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES

FOR PRELIMINARY APPROVAL

1465-009-00

LIST OF DRAWINGS

GENERAL

--	TITLE PAGE
G0.1	DRAWING LIST
CIVIL	
C0.1	LEGEND
C0.2	ABBREVIATIONS
C1.1	OVERALL SITE PLAN
C2.1	ACCESS ROAD PLAN PROFILE STATION 0+000 TO STATION 0+280
C2.2	ACCESS ROAD PLAN PROFILE STATION 0+280 TO STATION 0+460
C3.1	LIFT STATION UNDERGROUND DETAIL
C4.1	TYPICAL DETAILS 1 OF 2
C4.2	TYPICAL DETAILS 2 OF 2

ARCHITECTURAL

A1.1	ELEVATIONS
A2.1	PLAN
A3.1	SECTION
A3.2	SECTION

STRUCTURAL

S1.10	SLAB PLAN
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PROCESS


























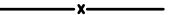






















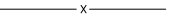



P0.1	EQUIPMENT LEGEND
P0.2	PIPING LEGEND
P0.3	INSTRUMENTATION LEGEND
P1.1	LIFT STATION
P1.2	LIFT STATION LAYOUT PLAN
P1.3	LIFT STATION SECTIONS



































































ELECTRICAL





























E0.1	LEGEND
E1.1	SINGLE LINE DIAGRAM
E1.2	DEMOLITION SITE PLAN
E1.3	PROPOSED SITE PLAN
E1.4	PROPOSED FLOOR PLAN
E1.5	LIFT STATION SECTIONS 1 OF 2
E1.6	LIFT STATION SECTIONS 2 OF 2
E1.7	TYPICAL FVNR DETAILS
E2.1	CONTROL PANEL LAYOUT
E2.2	PLC IO 1 OF 2
E2.3	PLC IO 2 OF 2
E3.1	SCHEDULES 1 OF 2
E3.2	SCHEDULES 2 OF 2
E3.3	DETAILS

NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

1	24-02-08	FOR PRELIMINARY APPROVAL
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VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES GENERAL DRAWING LIST		
DESIGNED	G.B.N., H.C.T.	JOB 1465-009-00
DRAWN	H.C.T.	SCALE
DATE	FEBRUARY 2024	DRAWING G0.1

PROPOSED	DESCRIPTION	EXISTING
	ALBERTA SURVEY CONTROL MONUMENT CONTROL POINT IRON PIN CONSTRUCTION EASEMENT PROPERTY LINE UTILITY RIGHT OF WAY EASEMENT	    
                      	ABBREVIATION ELEVATION BOLLARD/DELINEATOR POST SIGN BOREHOLE BUSH TREE ASPHALT SWALE CONCRETE SWALE DRAINAGE DITCH DRAINAGE SWALE DRAINAGE SWALE BACKFILLED GRADE BREAK CENTRELINE EDGE OF GRAVEL EDGE OF PAVEMENT CURB AND GUTTER MONOLITHIC SIDEWALK SEPARATE SIDEWALK FENCE BARBED WIRE FENCE CHAIN LINK FENCE SILT FENCE TO BE REMOVED RAILWAY	                      

PROPOSED	DESCRIPTION	EXISTING
            	ELECTRICAL TRANSFORMER GUY WIRE LIGHT STANDARD PEDESTAL POWER POLE TRAFFIC SIGNAL CABLE FIBRE OPTIC GAS LINE (NON-AER) GAS ABANDONED OVERHEAD POWER TELECOMMUNICATION UNDERGROUND POWER	            
     	BUTTERFLY VALVE GATE VALVE HYDRANT CURB STOP WATER MAIN WATER MAIN ABANDONED	     
             	CLEANOUT LANDSCAPE CATCH BASIN MANHOLE PLUG VALVE VAULT CATCH BASIN CULVERT INLET STRUCTURE OUTFALL STRUCTURE SANITARY SANITARY ABANDONED STORM STORM ABANDONED TILE DRAIN	             

PROPOSED	DESCRIPTION	EXISTING
             	AIR RELEASE BELLxBELL ADAPTER BELLxFLANGE ADAPTER COUPLER CROSS ELBOW 90° ELBOW 45° FLUSH POINT HOT TAP LOT SERVICE PLUG REDUCER TEE REDUCER TEE	             

NOTES:

1. ALL ELEVATIONS AND STATIONS IN METRES. PIPE LENGTHS, PIPE SIZES AND DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.


UTM 12 NAD 83

COORDINATES

THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
CIVIL
LEGEND

DESIGNED	G.B.N., H.C.T.	JOB	1465-009-00
DRAWN	H.C.T.	SCALE	
DATE	FEBRUARY 2024	DRAWING	C0.1

ABANDONED	AB
ACRE	AC
AIR RELEASE MANHOLE	AR
AIR RELEASE VALVE	ARV
ALBERTA SURVEY CONTROL MONUMENT	ASCM
ASBESTOS CEMENT	AC
ASPHALTIC CONCRETE PAVEMENT	ACP
AT	@
AVENUE	AVE
BACK OF WALK	BOW
BEDDING	BED
BEGINNING OF CURVE	BC
BEGINNING OF VERTICAL CURVE	BVC
BELLxBELLxBELL	BxBxB
BELLxFLANGE	BxFL
BELLxSPIGOT	BxSP
BENCH MARK	BM
BLOCK	BLK
BOREHOLE	BH
BOTTOM	BTM
BOTTOM OF PIPE	BOP
BOUNDARY	BDY
BOULEVARD	BLVD
BUILDING	BLDG
CABLE	C
CANADIAN NATIONAL RAILWAY	CNR
CANADIAN PACIFIC RAILWAY	CPR
CANADIAN STANDARDS ASSOCIATION	CSA
CAPACITY	CAP
CAST IRON	CI
CATCH BASIN	CB
CATHODIC PROTECTION	CP
CENTRE LINE	CL
CERTIFICATE OF TITLE	C OF T
CHAIN LINK FENCE	CLF
CHECK DROP	CD
CHECK VALVE IN MANHOLE	CVM
CLASS	CL
CLEAN OUT	CO
COMMUNITY RESERVE	COMM RES
COMPLETE WITH	C/W
CONCRETE	CONC
CONDUIT	COND
CORRUGATED	C
CORRUGATED METAL PIPE	CMP
CORRUGATED STEEL PIPE	CSP
COUPLING	CPLG
CREEK	CRK
CRESCENT	CRES
CROSSFALL	X-FALL
CROSS DRAIN	C-D
CROSS SECTION	X-SEC
CUBIC METRE PER SECOND	m ³ /s
CULVERT	CULV
CURB AND GUTTER	C&G
CURB STOP	CS
CURED IN PLACE PIPE	CIPP
CURVE TO SPIRAL	CS

PVC AND HDPE PIPE HAZEN WILLIAMS ROUGHNESS COEFFICIENT		
100Ø - 450Ø	C=140	
500Ø - 1500Ø	C=145	

OVERLAND STORM WATER FLOW FORMULA ABBREVIATIONS

DEPTH OF FLOW IN 1 IN 5 YEAR STORM EVENT	D _{1:5}
DEPTH OF FLOW IN 1 IN 100 YEAR STORM EVENT	D _{1:100}

DEGREE	°
DELTA	Δ
DIAMETER	Ø
DIMENSION RATIO	DR
DOMESTIC TURNOUT	DTO
DRAIN	D
DRAINOUT	DO
DRAIN INLET	DI
DRAWING	DWG
DRIVEWAY	DWY
DUCTILE IRON	DI
DWELLING	DWLG

EAST	E
EDGE OF GRAVEL	EOG
EDGE OF PAVEMENT	EOP
EDGE OF ROAD	EOR
ELECTRICAL TRANSFORMER	ET
ELEVATION	ELEV
ENCASEMENT	ENC
END OF CURVE	EC
END OF VERTICAL CURVE	EVC
ENGINEER	ENG
ENVIRONMENTAL CONSTRUCTION OPERATIONS	ECO
ENVIRONMENTAL RESERVE	ER
EXTERIOR DROP	EXT DROP
EXISTING GROUND	EG

FACE OF CURB	FOC
FACE OF WALK	FOW
FARM CROSSING	FC
FARM TURNOUT	FTO
FIBRE OPTIC	FO
FINISHED GRADE	FG
FINISHED LANDSCAPE GRADE	FLG
FLANGE	FLG
FLAPPER GATE	FP
FLOOD PLAIN	FLD PLN
FLOOD WAY	FLD WY
FLOOR	FLR
FLOW RATE	Q
FOOTING	FTG
FORCE MAIN	FM
FULL SUPPLY LEVEL	FSL

GALVANIZED	GALV
GALVANIZED IRON	GI
GAS	G
GUY WIRE	GW

HECTARE	ha
HEIGHT	H
HIGH DENSITY POLYETHYLENE	HDPE
HIGH POINT	HP
HIGHWAY	HWY
HORIZONTAL	HOR OR H
HORIZONTAL DIRECTIONAL DRILL	HDD
HOSPITAL	HOSP
HYDRANT	HYD
HYDRAULIC GRADE LINE	HGL

INLET CHAMBER	IC
INLET CONTROL DEVICE	ICD
INLET/OUTLET STRUCTURE (DRY POND)	I/O
INSIDE DIAMETER	ID
INTERSECTION	INT
INVERT	INV
IRON PIN	IP

FLOW RATE FOR A 1 IN 5 YEAR STORM EVENT	Q _{1:5}
FLOW RATE FOR A 1 IN 100 YEAR STORM EVENT	Q _{1:100}

KILOGRAM	kg
KILOMETRES	km
KILOMETRES PER HOUR	km/h
RATE OF CURVATURE	K

LANDSCAPE CATCH BASIN	LSCB
LATERAL TURNOUT	LTO
LENGTH	L
LENGTH OF CURVE	LC
LENGTH OF VERTICAL CURVE	LVC
LIFT STATION	LS
LIGHT STANDARD	LS
LIP OF GUTTER	LG
LIP OF GUTTER RADIUS	LGR
LONG RADIUS	LR
LONG TANGENT	LT
LOW POINT	LP
LOW PROFILE CURB AND GUTTER	LPC&G

MANHOLE	MH
MANHOLE CATCH BASIN	MHCB
MAXIMUM	MAX
MEDIAN	MED
METRE	m
METRES PER SECOND	m/s
METER CHAMBER	MC
MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI)	M
MILLIMETRE	mm
MINIMUM	MIN
MINUTES	'
MONITORING WELL	MW
MONOLITHIC SIDEWALK	MONO
MUNICIPAL RESERVE	MR

NORTH	N
NORTH EAST	NE
NORTH WEST	NW
NOT TO SCALE	NTS
NUMBER	No.

ON CENTRE	OC
OPTIMUM MOISTURE	OM
OUTLET CHAMBER	OC
OUTSIDE DIAMETER	OD
OVERHEAD POWER	OH

PEDESTAL	PED
PER	/
PERCENT	%
PIEZOMETER	PZ
PIPELINE TURNOUT	TO
POINT OF INTERSECTION	PI
POLYETHYLENE	PE
POLYVINYL CHLORIDE	PVC
POWER POLE	PP
POUNDS PER SQUARE INCH	PSI
PRESSURE REDUCING MANHOLE	PRVM
PROPERTY LINE	PL
PULL BOX	PB
PUMPOUT	PO
PUMP STATION	PS

VELOCITY FOR A 1 IN 5 YEAR STORM EVENT	V _{1:5}
VELOCITY FOR A 1 IN 100 YEAR STORM EVENT	V _{1:100}

RADIUS	R
RANGE	RGE
RAW WATER	RW
REDUCER	RED
REGISTERED PLAN	REG'D PL
REINFORCED	RE
REINFORCED CONCRETE	RC
RELOCATION	RELO
REMOVE	R
RESERVOIR	RES
RIGHT OF WAY	ROW
ROAD	RD
ROAD CROSSING	RC
ROLLED CURB AND GUTTER	RCG
RUBBER GASKET	RG

SANITARY	S
SECOND	"
SHOULDER	SHLD
SLOPE	S
SOUTH	S
SOUTH EAST	SE
SOUTH WEST	SW
SPIRAL TO CURVE	SC
SPIRAL TO TANGENT	ST
SQUARED	SQ
STANDARD	STD
STANDARD PROCTOR DENSITY	SPD
STAINLESS STEEL	SST
STATION	STA
STEEL	ST
STREET	ST
STORM	ST

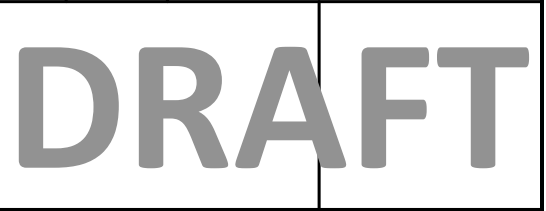
TANGENT	TAN
TANGENT TO SPIRAL	TS
TAPPING VALVE	TV
TELECOMMUNICATION	T
THRUST BLOCK	TB
TILE DRAIN	TD
TOP OF ASPHALT	TOA
TOP OF CURB	TOC
TOP OF DAM	TOD
TOP OF PIPE	TOP
TOP OF RAIL	TOR
TOWNSHIP	TWP
TRAFFIC SIGNAL	TS
TYPICAL	TYP

UNDERGROUND POWER	UG
UTILITY RIGHT OF WAY	URW

VALVE	V
VALVE CHAMBER	VC
VELOCITY	VEL
VERTICAL	VER OR V
VERTICAL BEND DOWN	VBD
VERTICAL BEND UP	VBU
VERTICAL CURVE	VC
VERTICAL POINT OF INTERSECTION	VPI
VITRIFIED CLAY TILE	VCT

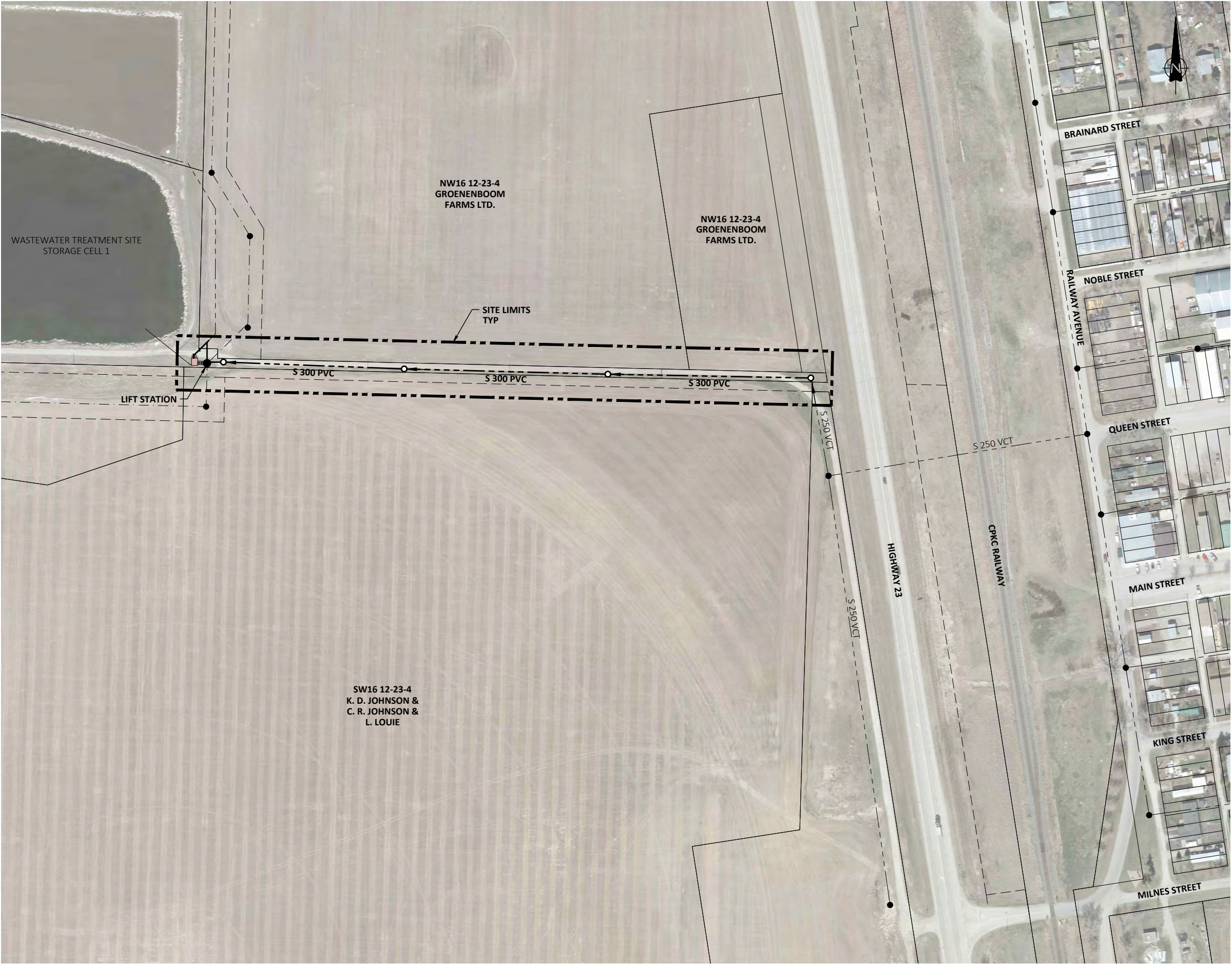
WATER	W
WATER VALVE	WV
WEST	W
WEEPING TILE DRAIN	WTD
WHEEL CHAIR RAMP	WCR
WIDTH	W

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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES CIVIL ABBREVIATIONS		
DESIGNED	G.B.N., H.C.T.	JOB 1465-009-00
DRAWN	H.C.T.	SCALE
DATE	FEBRUARY 2024	DRAWING C0.2



- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
 2. CONTRACTOR TO CONFIRM LOCATION, SIZE, MATERIAL, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK.
 3. EXISTING SHALLOW UTILITIES NOT SHOWN FOR CLARITY. REFER TO PLAN PROFILES FOR ADDITIONAL INFORMATION.
 4. CONTRACTOR TO PROVIDE BYPASS PUMPING AS REQUIRED TO ACCOMMODATE THE WORK.

1	24-02-08	FOR PRELIMINARY APPROVAL
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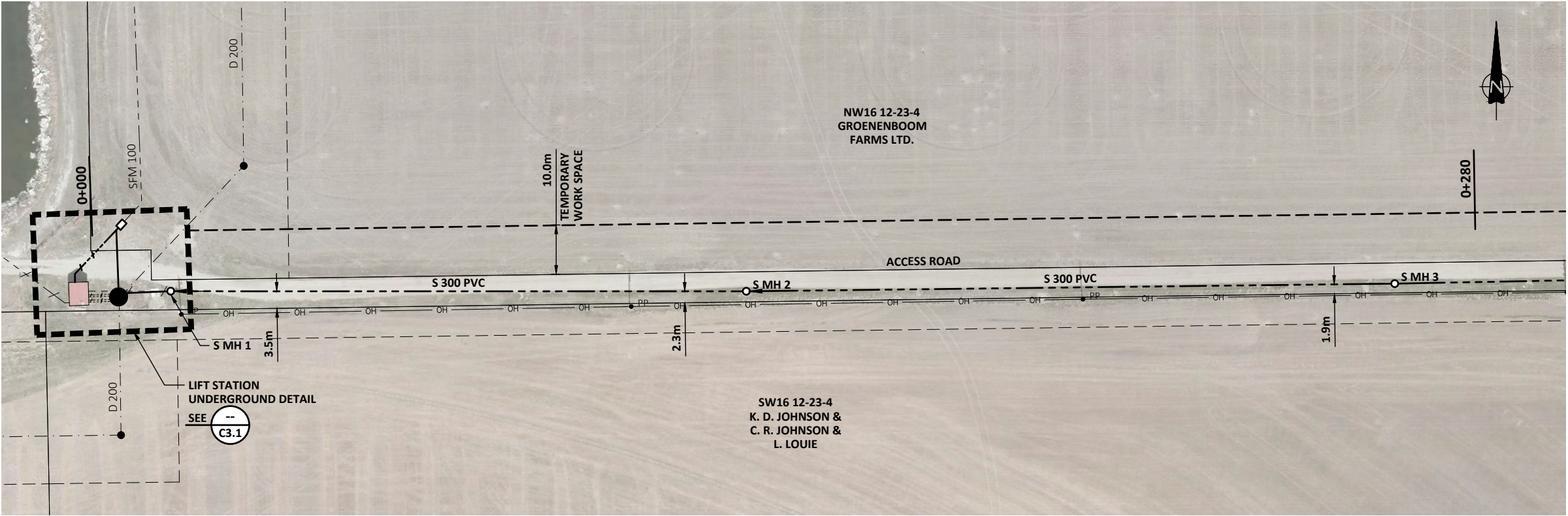


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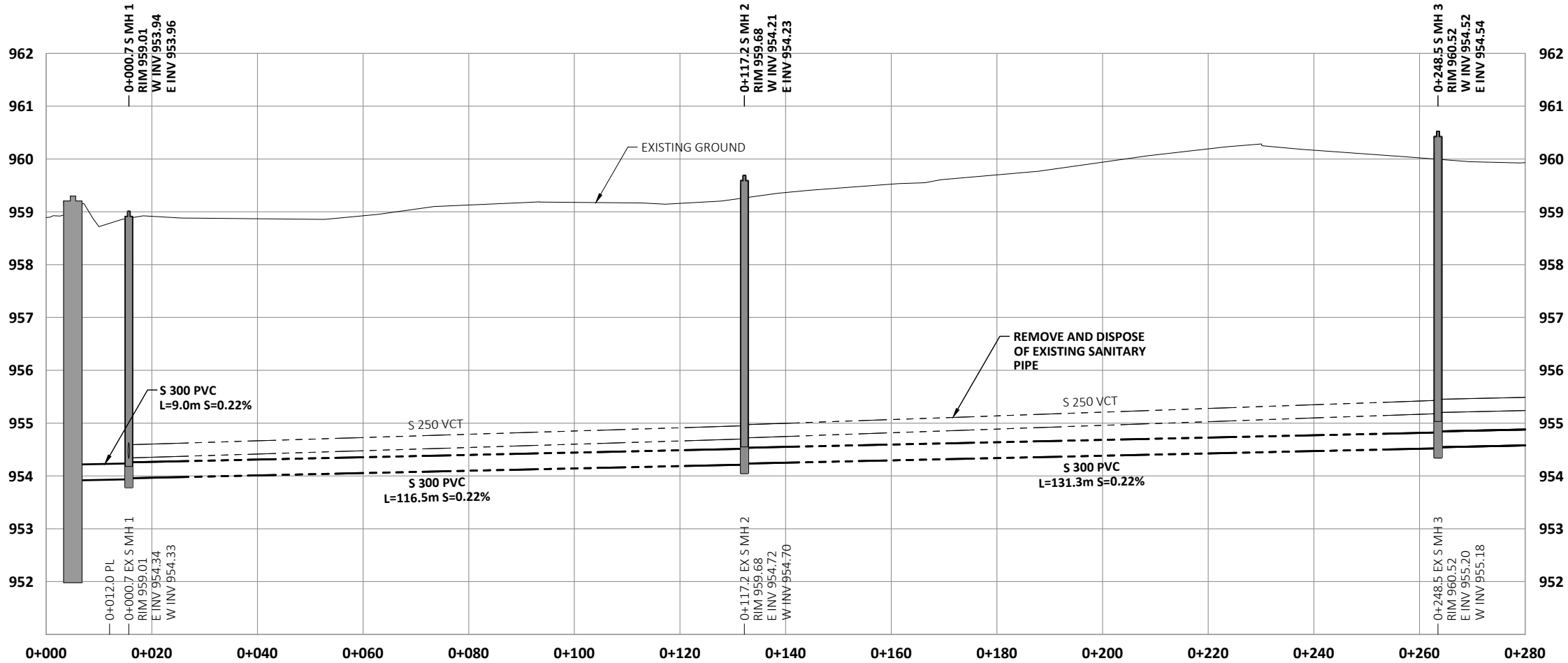
VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
CIVIL
OVERALL SITE PLAN

DESIGNED	G.B.N., H.C.T.	JOB	1465-009-00
DRAWN	H.C.T.	SCALE	1:2500
DATE	FEBRUARY 2024	DRAWING	C1.1



- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
 2. CONTRACTOR TO CONFIRM LOCATION, SIZE, MATERIAL, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK.
 3. EXISTING TRUNK MAIN WITHIN PROPOSED REPLACEMENT LIMITS NOT SHOWN ON PLAN VIEW FOR CLARITY.
 4. CONTRACTOR TO PROVIDE BYPASS PUMPING AS REQUIRED TO ACCOMMODATE THE WORK.



1	24-02-08	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

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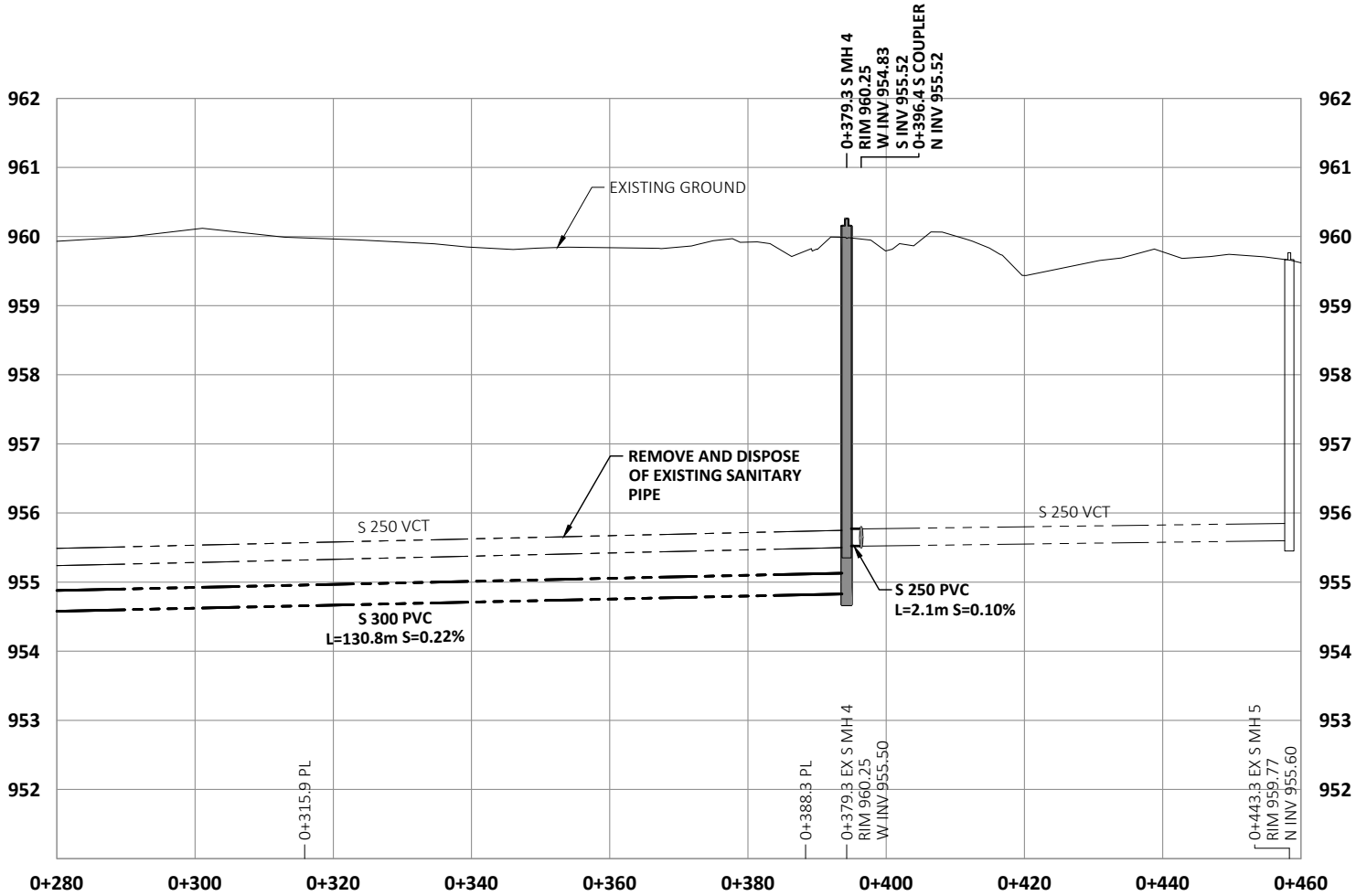
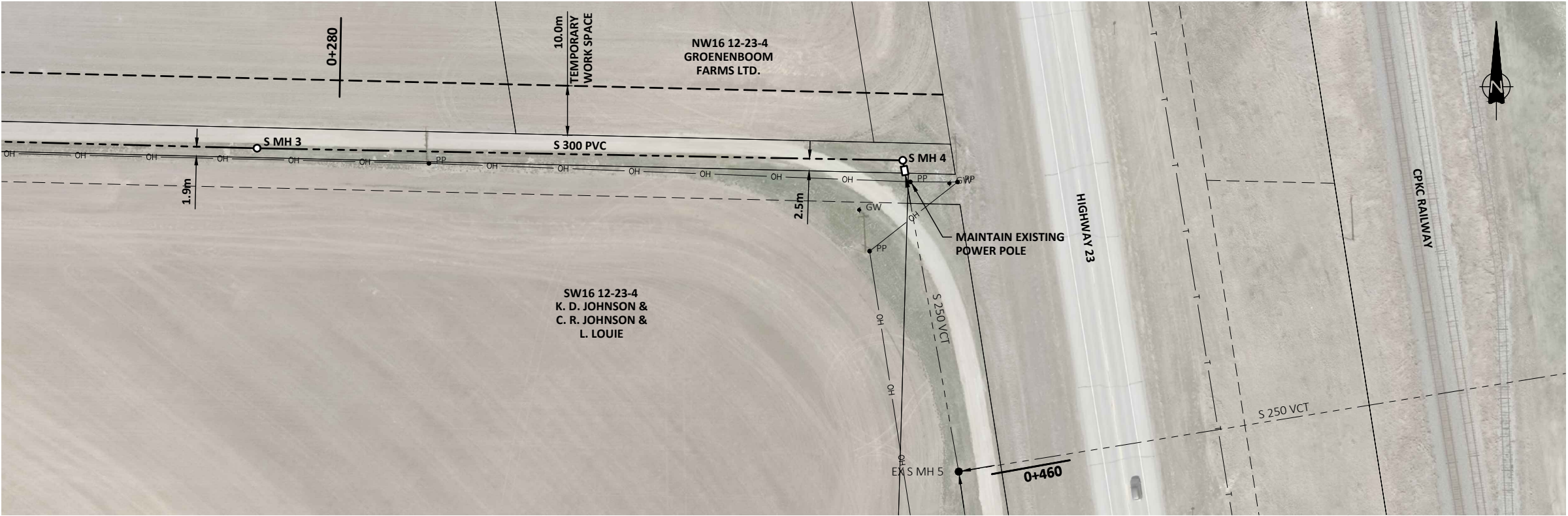


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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
CIVIL
ACCESS ROAD PLAN PROFILE
STATION 0+000 TO STATION 0+280

DESIGNED	G.B.N., H.C.T.	JOB	1465-009-00
DRAWN	H.C.T.	SCALE	H1:1000 V:100
DATE	FEBRUARY 2024	DRAWING	C2.1



- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
 2. CONTRACTOR TO CONFIRM LOCATION, SIZE, MATERIAL, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK.
 3. EXISTING TRUNK MAIN WITHIN PROPOSED REPLACEMENT LIMITS NOT SHOWN ON PLAN VIEW FOR CLARITY.
 4. CONTRACTOR TO PROVIDE BYPASS PUMPING AS REQUIRED TO ACCOMMODATE THE WORK.

1	24-02-08	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

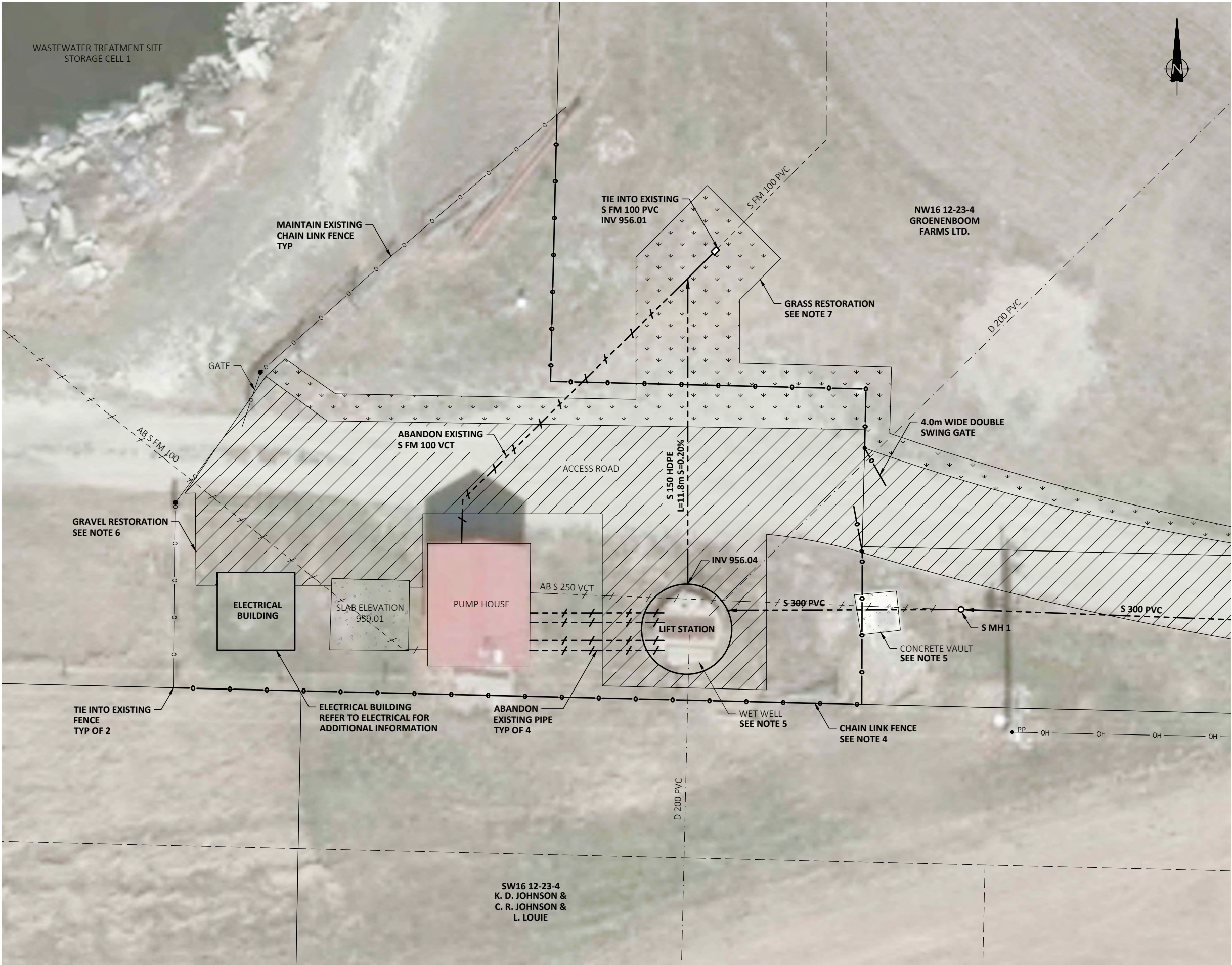
DRAFT



VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
CIVIL
ACCESS ROAD PLAN PROFILE
STATION 0+280 TO STATION 0+460


DESIGNED	G.B.N., H.C.T.	JOB	1465-009-00
DRAWN	H.C.T.	SCALE	H1:1000 V1:100
DATE	FEBRUARY 2024	DRAWING	C2.2



- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
 2. REMOVE AND DISPOSE OF EXISTING SANITARY MAIN UNLESS NOTED OTHERWISE.
 3. CONTRACTOR TO PROVIDE BYPASS PUMPING AS REQUIRED TO ACCOMMODATE THE WORK.
 4. INSTALL 1.8m CHAIN LINK FENCE ALONG PROPERTY LINE AND TIE INTO EXISTING FENCE.
 5. REMOVE AND DISPOSE OF EXISTING WET WELL AND CONCRETE VAULT DURING EXCAVATION OF NEW LIFT STATION.
 6. GRAVEL RESTORATION:
 - WASTE EXCAVATION
 - 300mm SUBGRADE PREPARATION
 - 150mm BASE GRANULAR MATERIAL
 7. GRASS RESTORATION:
 - TOPSOIL STRIPPING AND STOCKPILING
 - PLACEMENT OF SALVAGED TOPSOIL
 - DRYLAND SEED

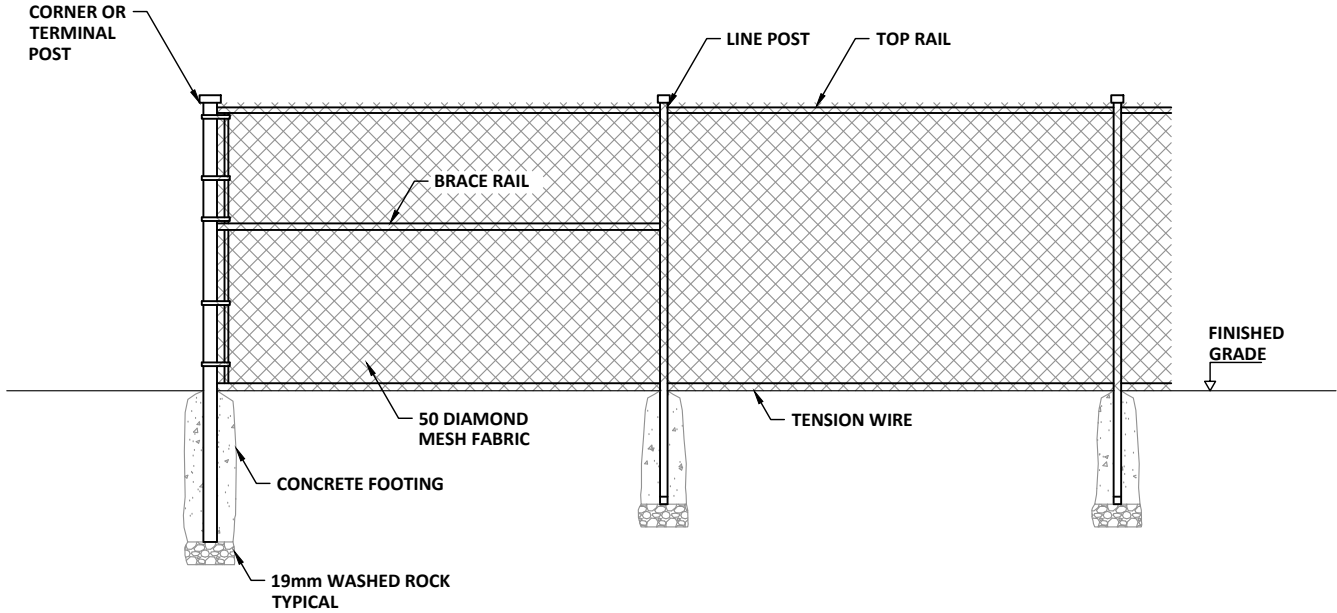
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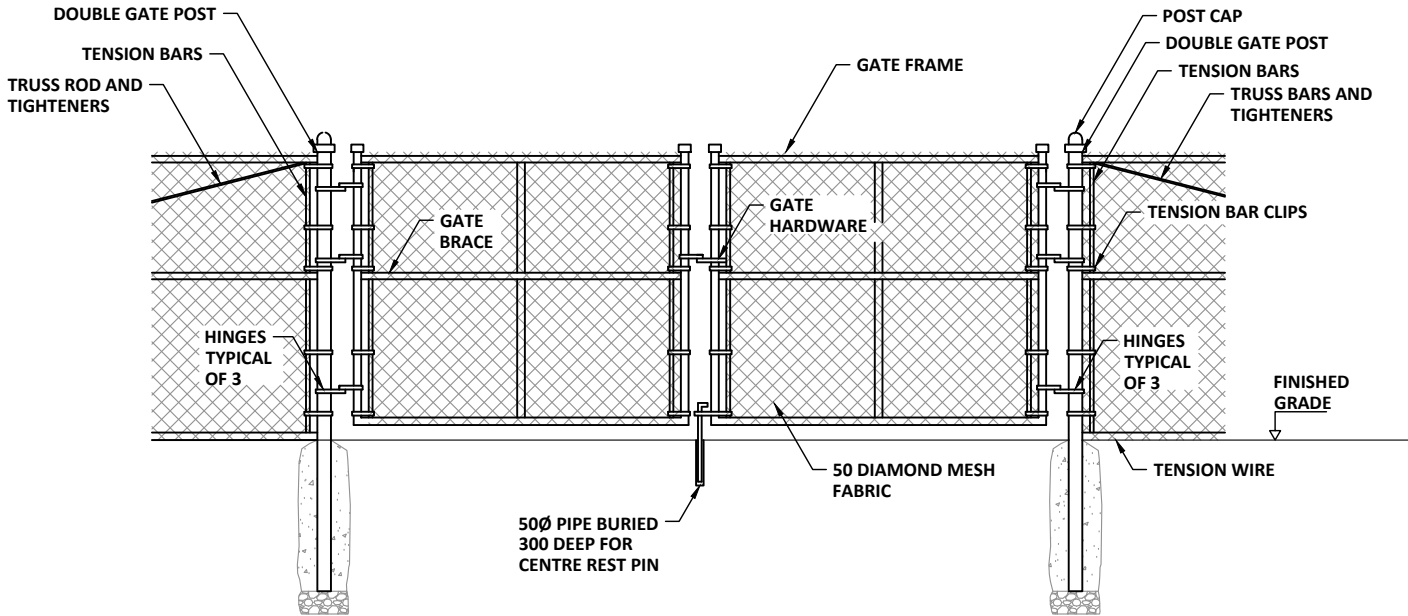


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VILLAGE OF BARONS	
LIFT STATION AND TRUNK MAIN UPGRADES CIVIL LIFT STATION UNDERGROUND DETAIL	
DESIGNED	G.B.N., H.C.T.
JOB	1465-009-00
DRAWN	H.C.T.
SCALE	1:150
DATE	FEBRUARY 2024
DRAWING	C3.1



CHAIN LINK FENCE WITHOUT SECURITY TOP



CHAIN LINK DOUBLE GATE WITHOUT SECURITY TOP

- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

1	24-02-08	FOR PRELIMINARY APPROVAL
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DRAFT



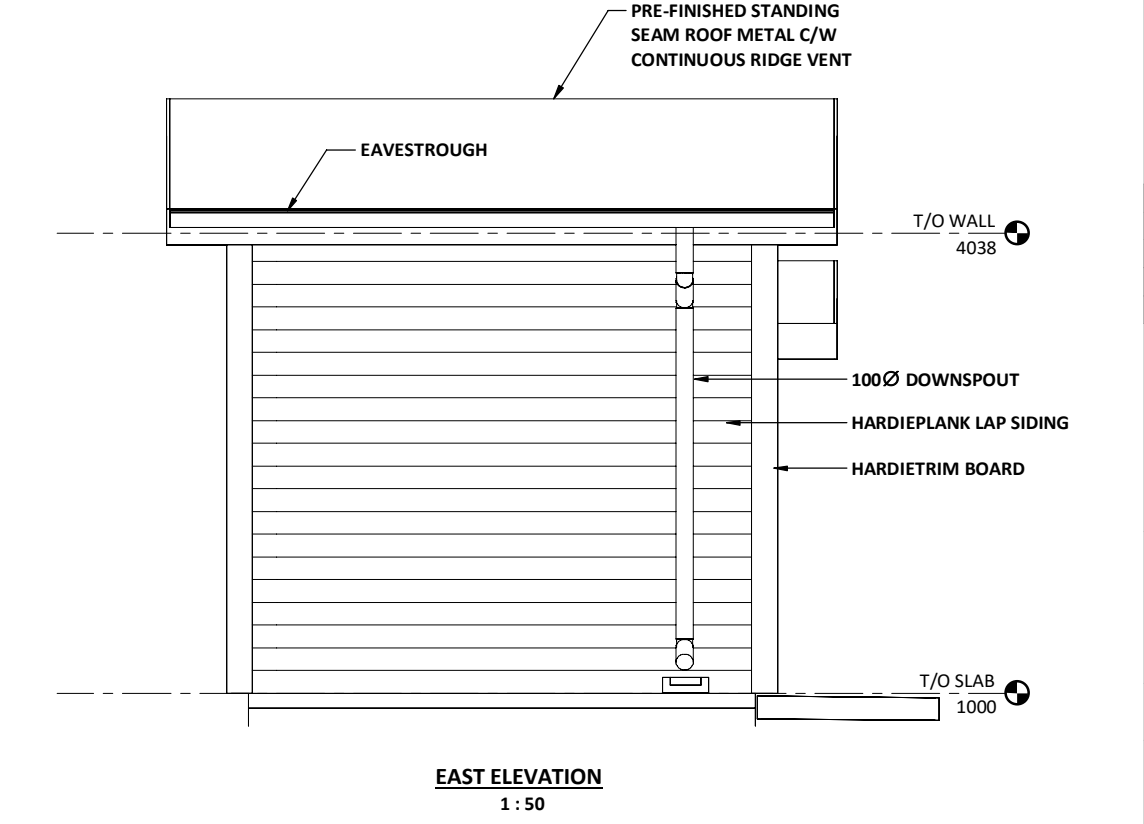
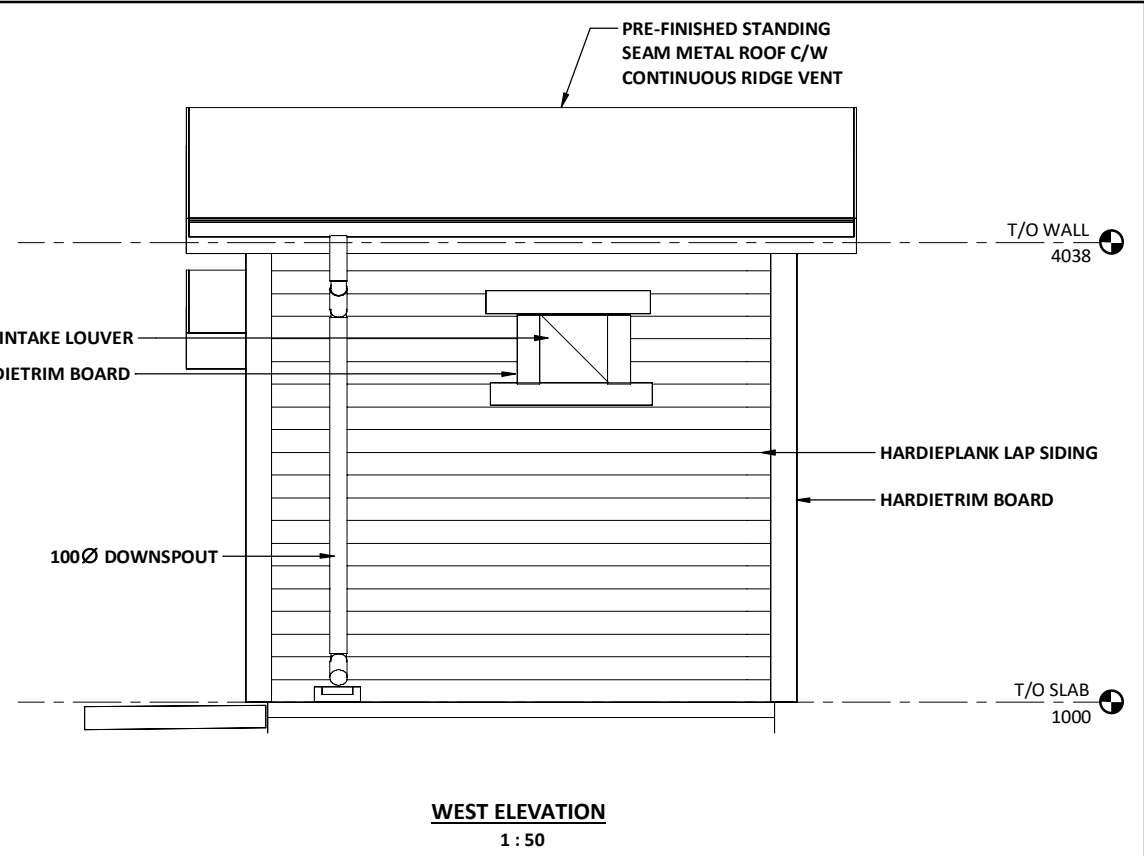
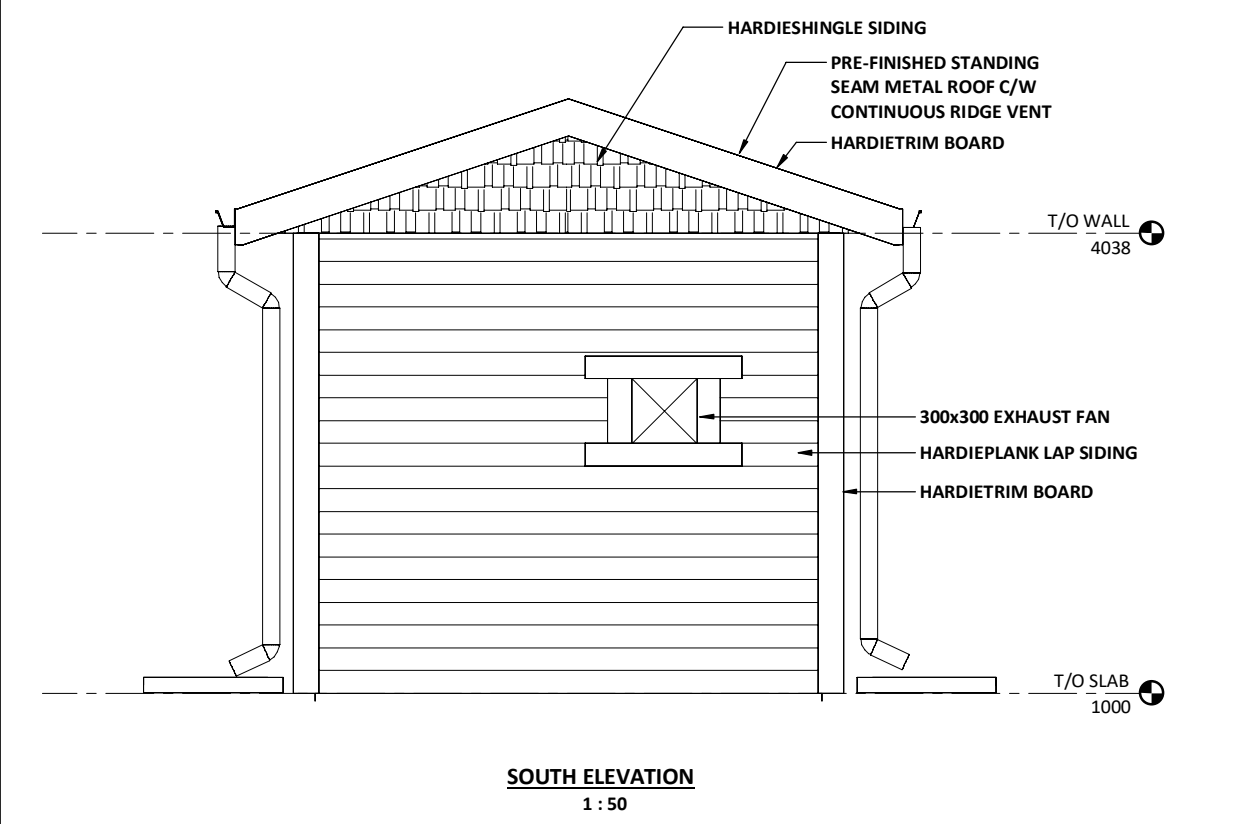
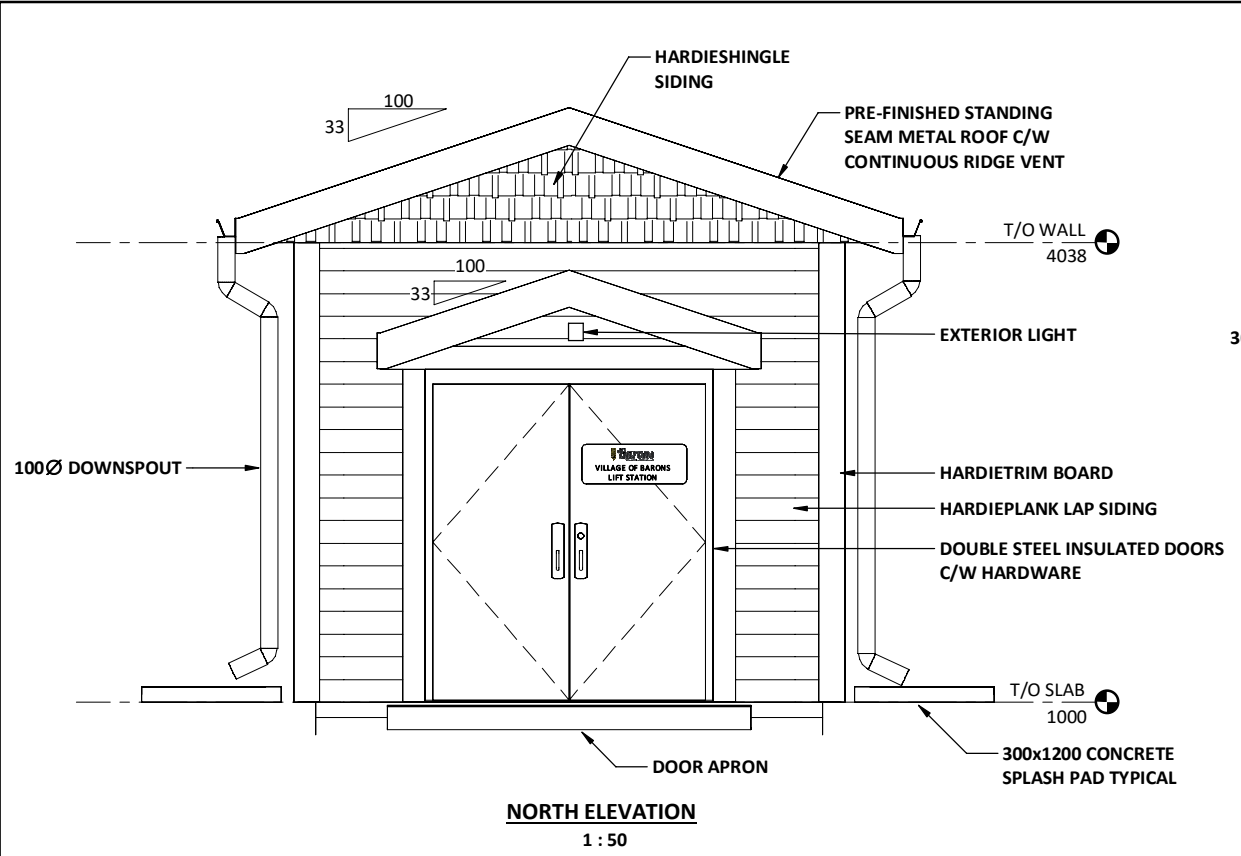
VILLAGE OF BARONS


LIFT STATION AND TRUNK MAIN UPGRADES
CIVIL
TYPICAL DETAILS 2 OF 2

DESIGNED	G.B.N., H.C.T.	JOB	1465-009-00
DRAWN	H.C.T.	SCALE	
DATE	FEBRUARY 2024	DRAWING	C4.2

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DIGITAL DRAWINGS BEST VIEWED IN ©ADOBE ACROBAT READER



SIGN SCHEDULE			
SIGNAGE	REQUIRED	SIGN	COMMENTS
DOOR EXTERIOR	1		"VILLAGE OF BARONS LIFT STATION" ADDRESS TO BE CONFIRMED PROVIDE SAMPLES PRIOR TO INSTALLATION

- NOTES:
- SUPPLY AND INSTALL PRE-FINISHED METAL ROOF SYSTEM COMPLETE WITH ALL REQUIRED FLASHING, EDGE, END AND CORNER DETAILS TO PROVIDE A WATER TIGHT ROOF SYSTEM.
 - SUPPLY AND INSTALL MAN DOOR AND FRAME COMPLETE WITH FINISH HARDWARE AS SPECIFIED.
 - DOOR, FRAME, GUTTER, DOWNSPOUTS, LOUVER AND ROOF TO BE PAINTED TO MATCH. COLOUR TO BE SELECTED BY OWNER FROM STANDARD COLOR SAMPLES
 - CONTRACTOR TO COORDINATE SIZE AND LOCATION OF PENETRATIONS WITH MECHANICAL.
 - SEE CIVIL DRAWINGS FOR SITE LOCATION, SLAB ELEVATION AND GRADING DETAILS.

SPATIAL SEPARATION (NBC-AE 2019 TABLE 3.2.3.1.B)

NORTH ELEVATION
LIMITING DISTANCE = 3M
WALL AREA = 10M²
MAX AREA OF UNPROTECTED OPENING = 46%
ACTUAL AREA OF UNPROTECTED OPENING = 20%

SOUTH ELEVATION
LIMITING DISTANCE = 3M
WALL AREA = 10M²
MAX AREA OF UNPROTECTED OPENING = 46%
ACTUAL AREA OF UNPROTECTED OPENING = 0.9%

1	24-01-30	FOR 100% REVIEW
ISSUE	YY-MM-DD	REVISION



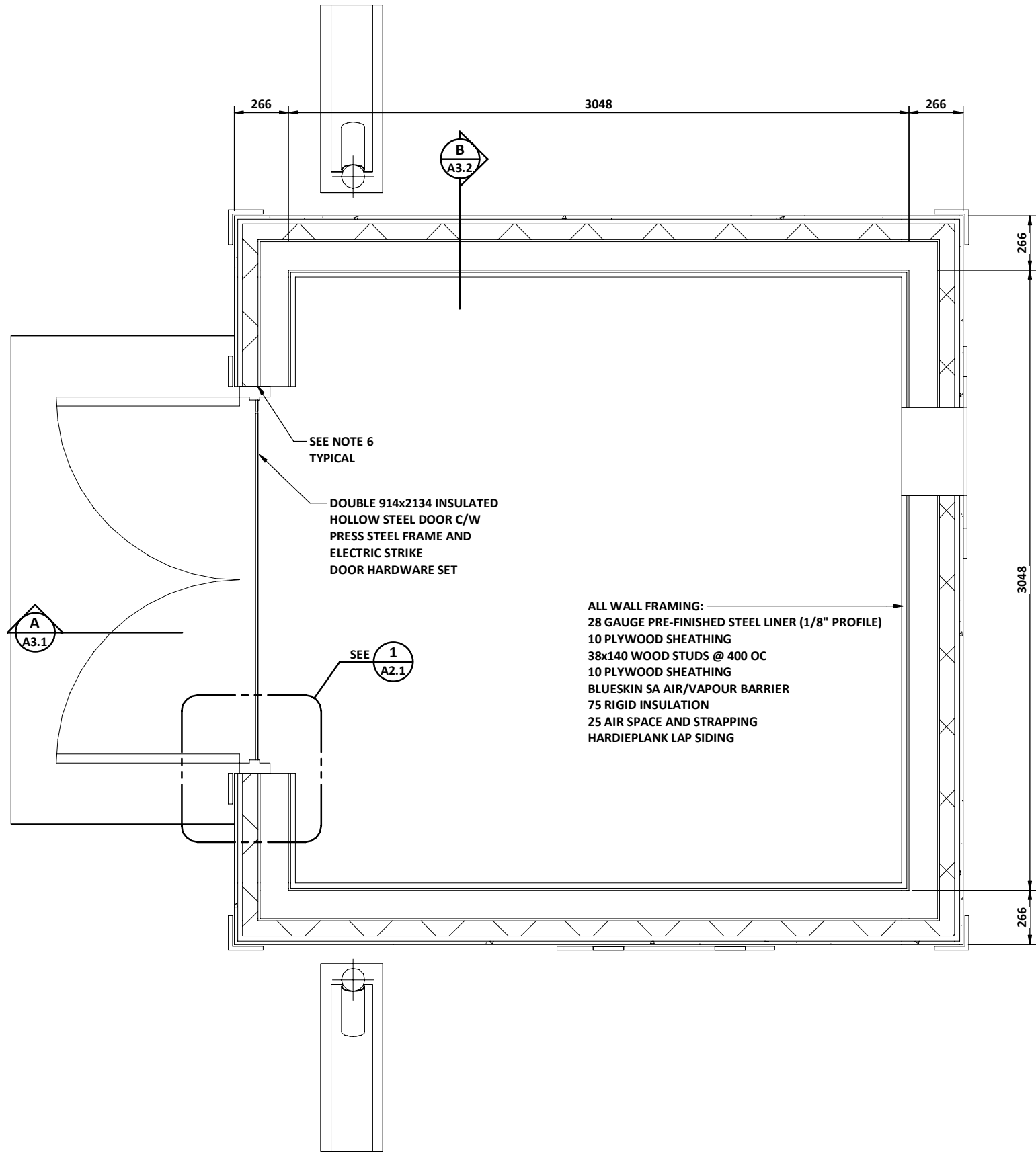
VILLAGE OF BARONS

**LIFT STATION AND TUNK MAIN UPGRADES
ARCHITECTURAL
ELEVATIONS**

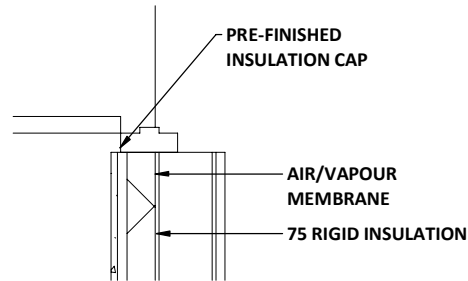
DESIGNED	B.W.A	JOB	1465-009-00
DRAWN	K.R.H	SCALE	As indicated
DATE	JANUARY 2024	DRAWING	A1.1

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PLAN
1 : 25



1
A2.1 1 : 20

- NOTES:
- BUILDING TO BE CONSTRUCTED TO THE NATIONAL BUILDING CODE - 2019 ALBERTA EDITION

1	24-01-30	FOR 100% REVIEW
ISSUE	YY-MM-DD	REVISION



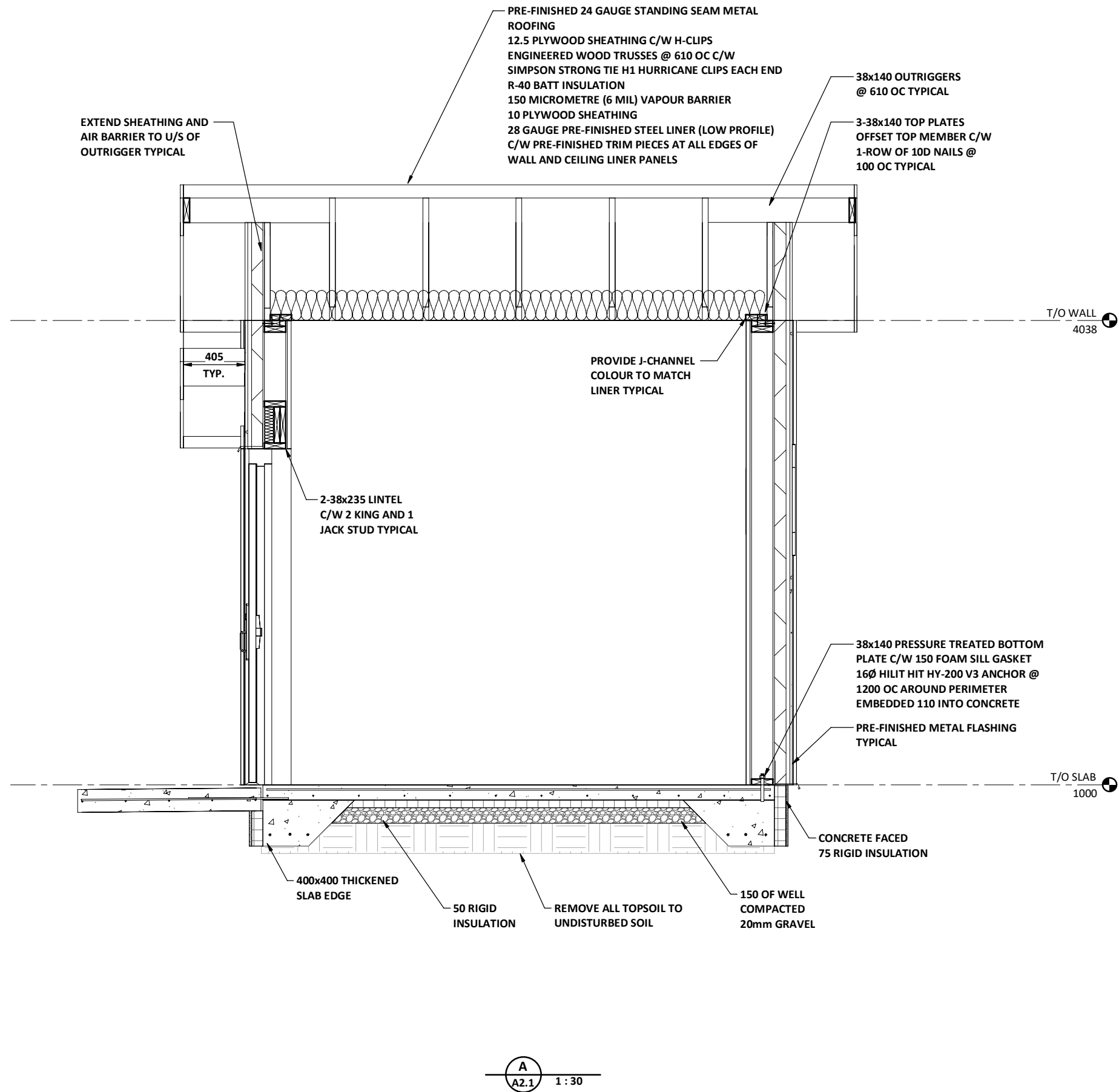
VILLAGE OF BARONS

LIFT STATION AND TUNK MAIN UPGRADES
ARCHITECTURAL
PLAN

DESIGNED	B.W.A	JOB	1465-009-00
DRAWN	K.R.H	SCALE	As indicated
DATE	JANUARY 2024	DRAWING	A2.1

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- NOTES:
- BUILDING TO BE CONSTRUCTED TO THE NATIONAL BUILDING CODE - 2019 ALBERTA EDITION
 - COORDINATE EQUIPMENT PAD SIZE AND LOCATION WITH ELECTRICAL
 - 20 CHAMFER ALL EXPOSED CONCRETE EDGES.

ROOF LOAD TABLE - UNFACTORED LOADS (kPa)		
	LIVE LOAD	DEAD LOAD
TOP CHORD	1.06 kPa FULL AREA	0.50 kPa
BOTTOM CHORD	1.22 kPa 1/2 AREA	0.50 kPa
WIND LOAD:		
NET UPLIFT	-1.19 kPa	
END ZONE UPLIFT	-2.83 kPa	

1	24-01-30	FOR 100% REVIEW
ISSUE	YY-MM-DD	REVISION



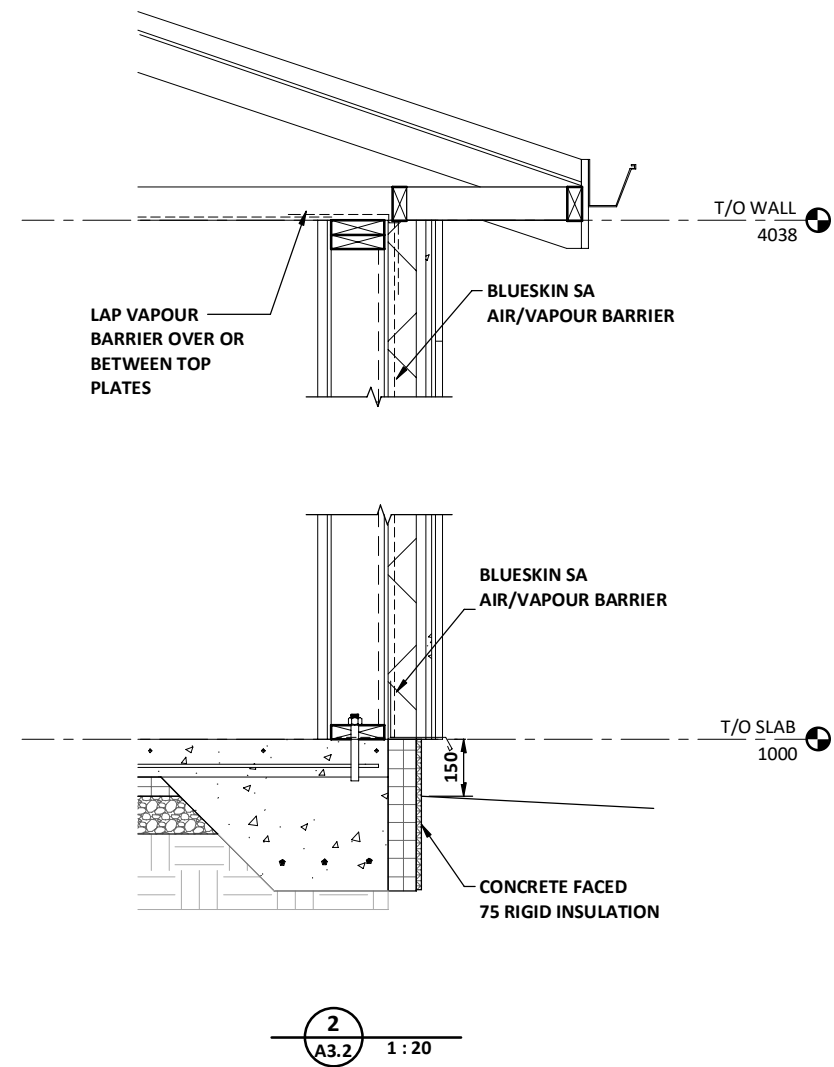
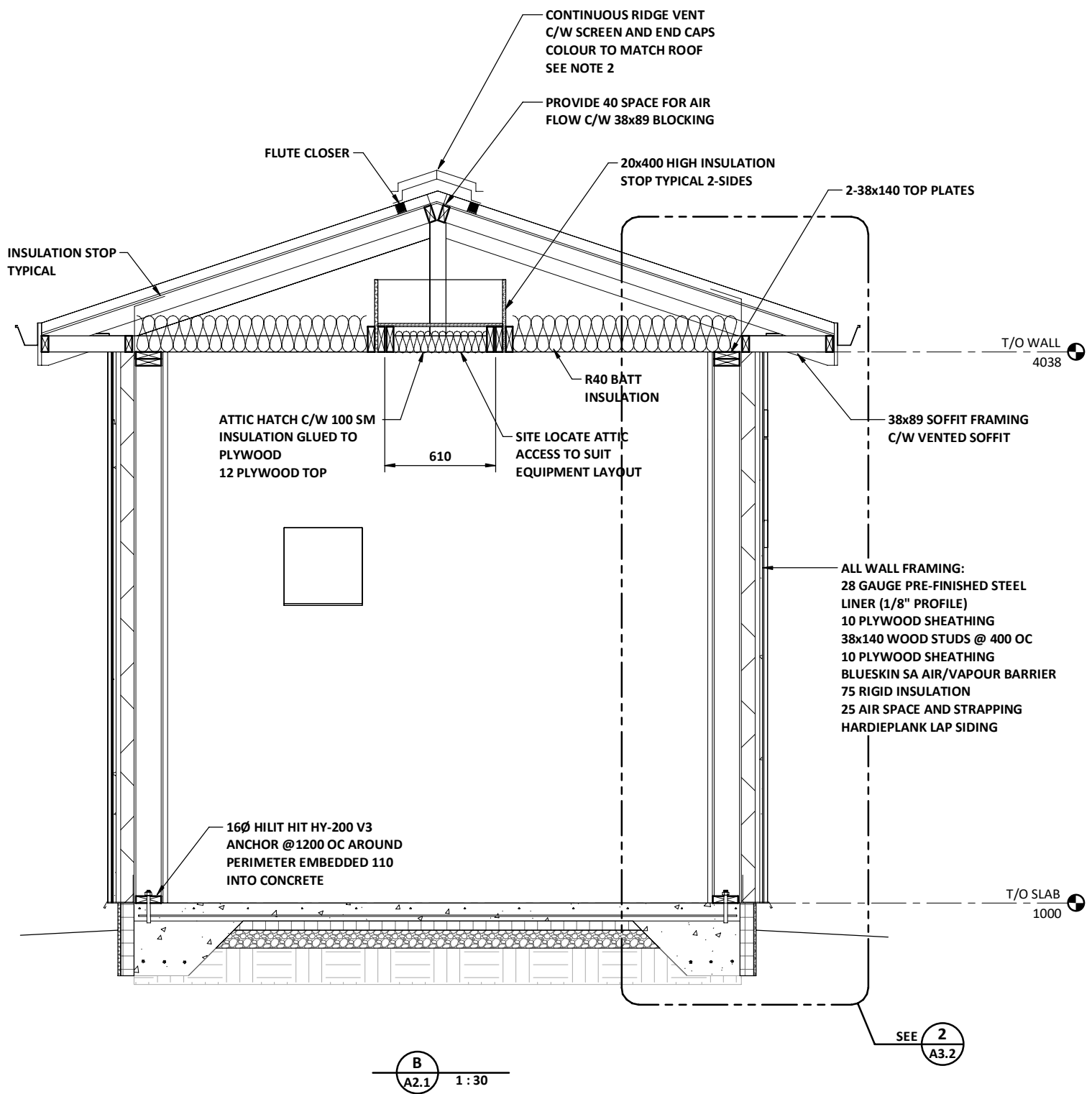
VILLAGE OF BARONS

LIFT STATION AND TUNK MAIN UPGRADES
ARCHITECTURAL
SECTION

DESIGNED	B.W.A	JOB	1465-009-00
DRAWN	K.R.H	SCALE	1 : 30
DATE	JANUARY 2024	DRAWING	A3.1

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- NOTES:
1. CONTRACTOR TO TIE WALL AND CEILING VAPOUR BARRIER TOGETHER TO ENSURE MOISTURE CANNOT PASS.
 2. RIDGE VENT TO WITHSTAND WIND SPEEDS OF 140 km/hr.
 3. 20 CHAMFER ALL EXPOSED CONCRETE EDGES.
 4. SNOW AND WIND LOADS INDICATED ARE UNFACTORED AND DO NOT INCLUDE IMPORTANCE FACTOR (I=1.25) FOR POST-DISASTER BUILDING.
 5. DEAD LOADS INDICATED DO NOT INCLUDE SELF-WEIGHT OF TRUSS.
 6. ENVIRONMENTAL LOADS AS PER LETHRIDGE, ALBERTA.
 7. TRUSSES TO BE DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE - ALBERTA EDITION 2019

1	24-01-30	FOR 100% REVIEW
ISSUE	YY-MM-DD	REVISION



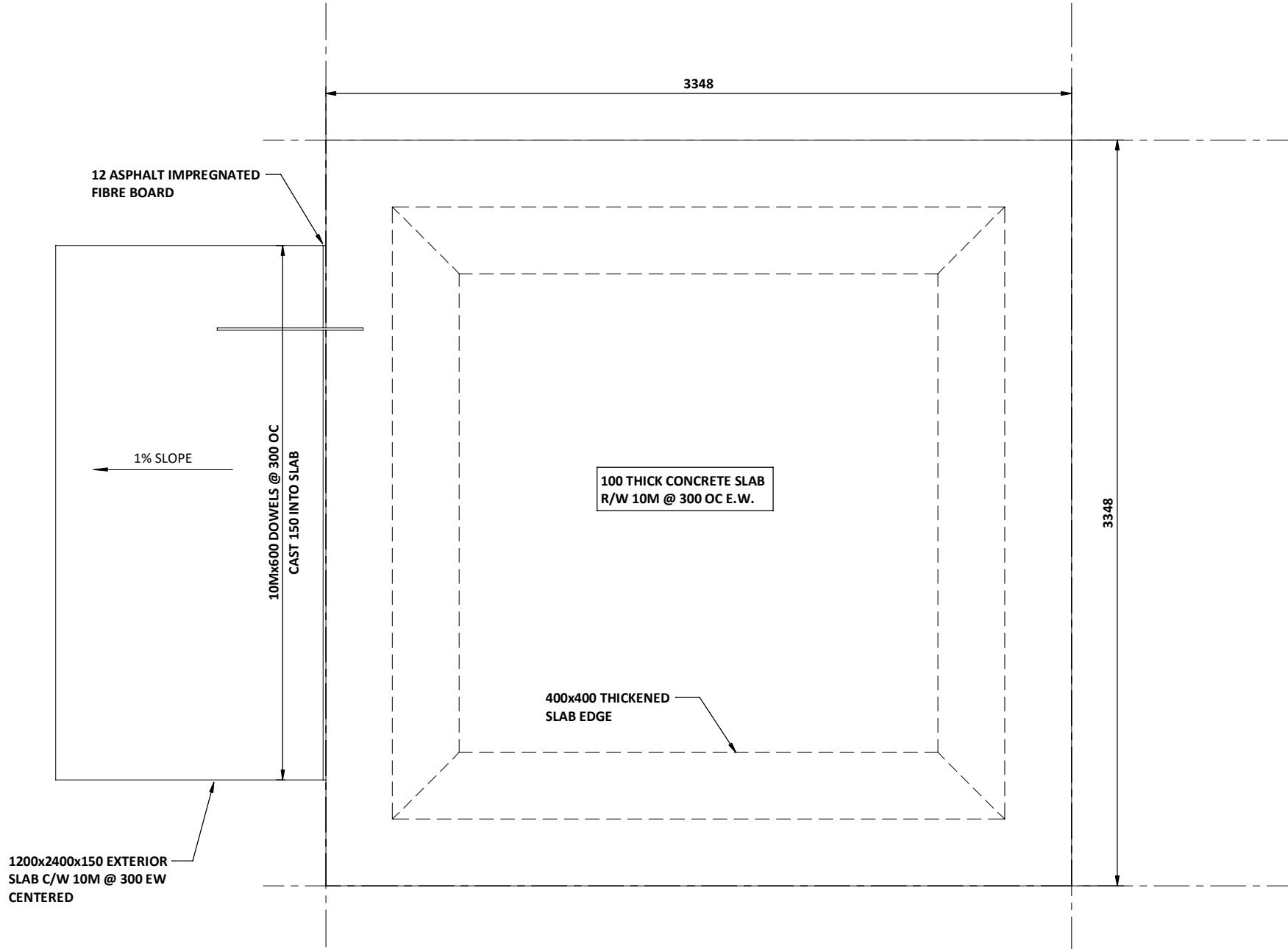
VILLAGE OF BARONS

LIFT STATION AND TUNK MAIN UPGRADES
ARCHITECTURAL
SECTION

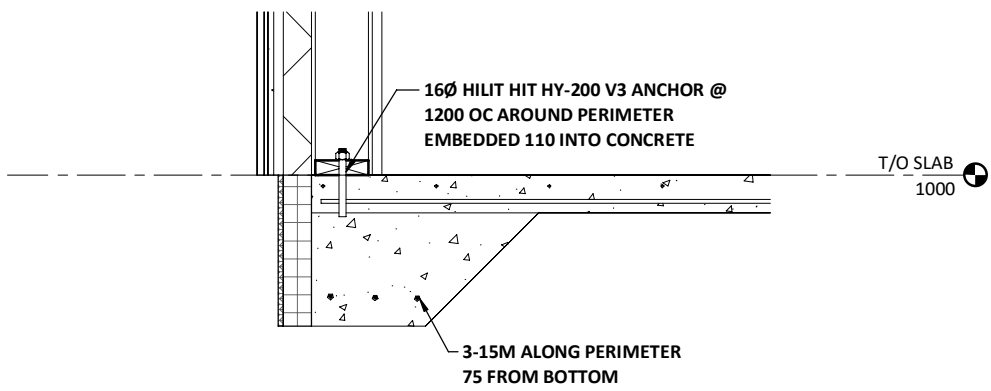
DESIGNED	B.W.A	JOB	1465-009-00
DRAWN	K.R.H	SCALE	As indicated
DATE	JANUARY 2024	DRAWING	A3.2

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DIGITAL DRAWINGS BEST VIEWED IN ©ADOBE ACROBAT READER



SLAB PLAN
1 : 25



STRUCTURAL SLAB DETAIL
1 : 20

- NOTES:
1. PROVIDE 20 CHAMFER AT ALL EXPOSED CONCRETE EDGES.

1	24-01-30	FOR 100% REVIEW
ISSUE	YY-MM-DD	REVISION



VILLAGE OF BARONS

LIFT STATION AND TUNK MAIN UPGRADES
STRUCTURAL
SLAB PLAN

DESIGNED	B.W.A	JOB	1465-009-00
DRAWN	K.R.H.	SCALE	As indicated
DATE	JANUARY 2024	DRAWING	S1.1

IDENTIFICATION LETTERS					
	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	INPUT/OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		AUTO
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	COMMUNICATION			CONTROL	CLOSE
D	USER'S CHOICE	DIFFERENTIAL			
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			FAULT
G	USER'S CHOICE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOTOR	MOMENTARY			MIDDLE INTERMEDIATE
N	SECURITY		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY OR EVENT	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		RUN/REMOTE
S	SPEED, FREQUENCY	SAFETY		SWITCH/STATUS	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X-AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y-AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z-AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

INSTRUMENT/DEVICE IDENTIFICATION EXAMPLES (aaa)					
	AIT	ANALYZER INDICATOR TRANSMITTER	PIT	PRESSURE INDICATOR TRANSMITTER	
	FCV	FLOW CONTROL VALVE	PI	PRESSURE INDICATOR (PRESSURE GAGE)	
	FIT	FLOW INDICATOR TRANSMITTER	TSH	TEMPERATURE SWITCH HIGH (HEAT DETECTOR)	
	LIT	LEVEL INDICATOR TRANSMITTER	TSL	TEMPERATURE SWITCH LOW (HEAT DETECTOR)	
	PCV	PRESSURE CONTROL VALVE	ZSC	POSITION SWITCH CLOSE (DOOR CONTACT)	

VALVE FUNCTION EXAMPLES (aaa)					
	ZY or ZC	POSITION COMPUTE/CONVERT (CONTROL) - AO	ZCC or YSC	POSITION CONTROL CLOSE - DO	
	ZT or ZI	POSITION TRANSMIT (FEEDBACK) - AI	ZSO	POSITION STATUS OPEN - DI	
	ZCO or YSO	POSITION CONTROL OPEN - DO	ZSC	POSITION STATUS CLOSE - DI	

MOTOR FUNCTION EXAMPLES (aaa)					
	HSA or HA	HAND STATUS AUTO (AUTO SIGNAL FROM THE HAND-OFF-AUTO SWITCH) - DI			
	MCR or YS	MOTOR CONTROL RUN (START) - DO			
	MSR or YC	MOTOR STATUS RUN - DI			
	MSF or YA	MOTOR STATUS FAULT (OVERLOAD) - DI			
	SY or SC	SPEED COMPUTE/CONVERT (CONTROL) - AO			
	ST or SI	SPEED TRANSMIT (FEEDBACK) - AI			
	TSH or YA	TEMPERATURE STATUS HIGH (THERMISTOR) - DI			
	LSH or YA	LEVEL STATUS HIGH (LEAKAGE IN SUBMERSIBLE PUMP SEAL) - DI			

EQUIPMENT TAG	
	LOCALLY MOUNTED INSTRUMENT
	PANEL MOUNTED INSTRUMENT
	BACK OF PANEL MOUNTED INSTRUMENT

PRESSURE CONTROL VALVE LEGEND (xx)	
	PRESSURE CONTROL VALVE
SU	SUSTAINING
RD	REDUCING
RL	RELIEVING
SA	SURGE ANTICIPATING
VR	VACUUM RELIEF

ANALYZING ELEMENT/ALARM LEGEND (yy)	
	PROCESS ANALYZER
CL2	CHLORINE
TURB	TURBIDITY
pH	pH
DO	DISSOLVED OXYGEN
CON	CONDUCTIVITY
TEMP	TEMPERATURE
PC	PARTICLE COUNT

BUILDING ANALYZING ELEMENT/ALARM LEGEND	
	BUILDING ANALYZER
y	H HIGH L LOW F FAULT
zz	SMK SMOKE H2S H2S CH4 METHANE CO CARBON MONOXIDE

FUNCTION BLOCK	
	SINGLE SIGNAL
	HMI
	MULTIPLE SIGNAL
bb	AI ANALOG INPUT AO ANALOG OUTPUT DI DIGITAL INPUT DO DIGITAL OUTPUT
y	H HART D DEVICE NET C CONTROL NET M MODBUS P PROFIBUS E ETHERNET
qq	PLC IDENTIFIER

INTERLOCK	
	X - INTERLOCK NUMBER (IF APPLICABLE) \$ - INTERLOCK SYSTEM (IE; PLC, DCS, MCC, VFD, ETC.)
	* - PACKAGE CONTROL INTERFACE \$ - CONTROL SYSTEM TYPE
	FIRE SYSTEM
	SECURITY MONITORING SYSTEM

POWER SUPPLY AND PURGE FLUIDS LEGEND			
AS	AIR SUPPLY	HS	HYDRAULIC SUPPLY
IS	INSTRUMENT AIR SUPPLY	NS	NITROGEN SUPPLY
PS	PLANT AIR SUPPLY	SS	STEAM SUPPLY
ES	ELECTRICAL SUPPLY	WS	WATER SUPPLY
GS	GAS SUPPLY		

SIGNAL TYPES	
	PNEUMATIC SIGNAL
	ELECTRICAL SIGNAL
	HYDRAULIC SIGNAL
	CAPILLARY TUBING (FILLED SYSTEM)
	ELECTRO MAGNETIC OR SONIC SIGNAL (GUIDED)
	ELECTRO MAGNETIC OR SONIC SIGNAL (NOT GUIDED)
	INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)
	MECHANICAL LINK

FUNCTION SYMBOLS			
	PROPORTIONAL		ANALOG TO DIGITAL
	SQUARE ROOT EXTRACTOR		CURRENT TO PNEUMATIC CONVERTER
	HIGH SELECTOR		PNEUMATIC TO CURRENT TRANSDUCER
	LOW SELECTOR		VOLT TO PNEUMATIC TRANSDUCER
	DIVIDE		VOLT TO CURRENT TRANSDUCER
	MULTIPLY		MILLIVOLT TO CURRENT TRANSDUCER
	SUMMATION		CURRENT TO CURRENT TRANSDUCER
	DIFFERENCE		NON-LINEAR OR UNSPECIFIED FUNCTION
	BIAS		FUNCTION OF TIME
	EXPONENTIAL		REVERSE
	INTEGRAL		AUTO MANUAL
	DERIVATIVE		AVERAGE

NOTES:
1. ALL ELEVATIONS AND STATIONS ARE SHOWN IN METRES.
ALL PIPE LENGTHS, PIPE SIZES AND DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

1	24-02-08	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

DRAFT

a division of Englobe

VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES PROCESS EQUIPMENT LEGEND		
DESIGNED	G.B.N., H.C.T.	JOB 1465-009-00
DRAWN	H.C.T.	SCALE
DATE	FEBRUARY 2024	DRAWING P0.1

PIPE CONNECTIONS			PIPE FITTINGS			LINE LABELLING					
DESCRIPTION	DOUBLE LINE (> 75mm)	SINGLE LINE (< 75mm)	DESCRIPTION	DOUBLE LINE (> 75mm)	SINGLE LINE (< 75mm)	<div>PIPE DIAMETER (mm) LINE IDENTIFICATION YYY-200-ZZZ-a,b,c PIPE MATERIAL SPECIAL TREATMENT CODES</div>					
RAISED FACE WELD NECK FLANGED CONNECTION			CROSS								
RAISED FACE SLIP ON FLANGED CONNECTION			CROSS (BRANCH UP)								
VICTAULIC FLANGED CONNECTION			45° ELBOW								
BLIND FLANGE			45° ELBOW (UP)								
INSULATING FLANGE			45° ELBOW (DOWN)								
WELDED CONNECTION (RANDOM LENGTH PIPE)			LATERAL								
SCREWED CONNECTION (RANDOM LENGTH PIPE)			90° ELBOW								
VICTAULIC JOINT CONNECTION			90° ELBOW (UP)								
UNION			90° ELBOW (DOWN)								
COMPRESSION COUPLING			45° ELBOW (SHORT RADIUS)								
FLANGED COUPLING			90° ELBOW (SHORT RADIUS)								
FLANGED ADAPTOR			BASE ELBOW								
BELL AND SPIGOT, RING TIGHT, MECHANICAL JOINT CONNECTION			SIDE OUTLET ELBOW (UP)								
COUPLER (PVC)			SIDE OUTLET ELBOW (DOWN)								
			TEE								
			TEE (BRANCH UP)								
			TEE (BRANCH DOWN)								
			SIDE OUTLET TEE (UP)								
			CAP								
			CONCENTRIC REDUCER								
			ECCENTRIC REDUCER								
PIPE TO VALVE CONNECTIONS			EXPANSION JOINT								
			FLEXIBLE CONNECTION								
RAISED FACE WELD NECK FLANGED CONNECTION											
RAISED FACE SLIP ON FLANGED CONNECTION											
WELDED CONNECTION											
THREADED CONNECTION											
VICTAULIC CONNECTION											
						LINE IDENTIFICATION (YYY)					
						PIPE MATERIAL (ZZZ)					
						LINE CODE	FLANGE RATING	SCH OR THICKNESS	BASIC MATERIAL	SPECIAL NOTES	
						AA	AQUA AMMONIA				
						AAS	AERATION AIR SUPPLY				
						ACI	ACID (pH ADJUSTMENT)		A1	ANSI 150	
						ACS	POWDERED ACTIVATED CARBON SOLUTION		A2	ANSI 150	
						AD	AIR DISTRIBUTION		A3	ANSI 300	
						AL	ALUM		B1	ANSI 150	
						ALS	ALUM SOLUTION		B2	ANSI 150	
						ALG	ALGAECIDE SOLUTION		B3	ANSI 150	
						AMG	AMMONIA GAS		B4	ANSI 150	
						AMS	AMMONIA SOLUTION		B5	ANSI 150	
						ANS	ANTISCALANT		B6	ANSI 150	
						AS	AIR SUPPLY		B7	ANSI 150	
						BWS	BACKWASH SUPPLY		B8	ANSI 150	
						CAS	CITRIC ACID SOLUTION		B9	ANSI 150	
						CDG	CARBON DIOXIDE GAS		B10	ANSI 150	
						CDS	CARBON DIOXIDE SOLUTION		B11	ANSI 150	
						CIPS	CLEAN IN PLACE SUPPLY		B12	ANSI 150	
						CIPR	CLEAN IN PLACE RETURN		-	SCH 80	
						CIPD	CLEAN IN PLACE DRAIN		C1	-	
						CLG	CHLORINE GAS		-	TYPE K	
						CLS	CHLORINE SOLUTION		-	TYPE L	
						CO	COAGULANT		-	TYPE M	
						COS	COAGULANT SOLUTION		D1	ANSI 150	
						CSS	CAUSTIC SODA SOLUTION		D2	ANSI 150	
						DCW	DOMESTIC COLD WATER		D3	ANSI 150	
						DE	DAF EFFLUENT		D4	ANSI 150	
						DHW	DOMESTIC HOT WATER		D5	ANSI 300	
						DHWR	DOMESTIC HOT WATER RECIRCULATION		D6	ANSI 300	
						DL	DIESEL FUEL		D7	ANSI 300	
						DR	DRAIN		D8	ANSI 300	
						DW	DAF WASTE		E1	-	
						EW	EFFLUENT WATER		-	-	
						FL	FLUORIDE		-	-	
						FTW	FILTER TO WASTE		F1	-	
						FW	FILTERED WATER		-	-	
						G(H)	NATURAL GAS (HIGH PRESSURE)		G1	ANSI 150	
						G(L)	NATURAL GAS (LOW PRESSURE)		G2	ANSI 150	
						GLS	GLYCOL SUPPLY		-	-	
						GLR	GLYCOL RETURN		H1	-	
						HWS	HOT WATER SUPPLY		-	DR 9	
						HWR	HOT WATER RETURN		-	DR 11	
						IA	INSTRUMENT AIR		-	DR 13.5	
						OF	OVERFLOW		-	DR 15.5	
						PLY	POLYELECTROLYTE (LIQUID)		-	DR 17	
						PLYS	POLYELECTROLYTE SOLUTION		-	DR 32	
						PO	POLYMER		-	DR 11	
						POS	POLYMER SOLUTION		-	DR 7.3	
						PPS	POTASSIUM PERMANGANATE SOLUTION		H11	-	
						PSW	PLANT SERVICE WATER		-	-	
						PW	POTABLE WATER		J1	-	
						RAS	RETURN ACTIVATED SLUDGE		-	-	
						RF	REFRIGERANT		J2	-	
						RJW	REJECT WATER		-	-	
						RW	RAW WATER		-	-	
						S	SANITARY WASTE		K1	-	
						SA	SULFURIC ACID		-	-	
						SAM	SAMPLE LINE		-	-	
						SAS	SODA ASH SOLUTION		-	-	
						SB	SODIUM BISULPHATE		-	-	
						SEN	SENSING LINE		-	-	
						SHS	SODIUM HYPOCHLORITE SOLUTION		-	-	
						SLG	SLUDGE		-	-	
						SPSW	SOFTENED PLANT SERVICE WATER		-	-	
						SU	SUPERNATANT		-	-	
						SV	SANITARY VENT		-	-	
						TEW	TEMPERED EFFLUENT WASTE		-	-	
						TW	TREATED WATER		-	-	
						VE	VENT		-	-	
						WAS	WASTE ACTIVATED SLUDGE		-	-	
						WT	WEeping TILE		-	-	
						XR	EXCESS RECIRCULATION		-	-	
						SPECIAL TREATMENT CODES (a,b,c)					
						A	CEMENT MORTAR LINING				
						B	INTERNAL HOT APPLIED COAL TAR LINING				
						C	EXTERNAL HOT APPLIED COAL TAR LINING				
						D	INTERNAL EPOXY COATED				
						E	EXTERNAL EPOXY COATED				
						F	EXTERNAL YELLOW JACKETED				
						G	EXTERNAL DOUBLE WRAP POLYKEN TAPE				
						H	EXTERNAL INSULATION				
						I	EXTERNAL INSULATION AND ALUMINUM MECHANICAL PROTECTION				
						J	EXTERNAL SHOP PRIME				
						K	DENSYL MASTIC WRAP - BURIED FLANGES, COUPLERS AND VALVES				
						L	GALVANIZED				
						M	ROCK SHIELD				
						N	FROST SHIELDED				
						P	INSTALLED IN RPVC CONDUIT				
						R	TRACER WIRE INSTALLED ABOVE PIPE				

IDENTIFICATION LETTERS					
	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	INPUT/OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		AUTO
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	COMMUNICATION			CONTROL	CLOSE
D	USER'S CHOICE	DIFFERENTIAL			
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			FAULT
G	USER'S CHOICE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOTOR	MOMENTARY			MIDDLE INTERMEDIATE
N	SECURITY		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY OR EVENT	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		RUN/REMOTE
S	SPEED, FREQUENCY	SAFETY		SWITCH/STATUS	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X-AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y-AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z-AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

INSTRUMENT/DEVICE IDENTIFICATION EXAMPLES (aaa)					
	AIT	ANALYZER INDICATOR TRANSMITTER	PIT	PRESSURE INDICATOR TRANSMITTER	
	FCV	FLOW CONTROL VALVE	PI	PRESSURE INDICATOR (PRESSURE GAGE)	
	FIT	FLOW INDICATOR TRANSMITTER	TSH	TEMPERATURE SWITCH HIGH (HEAT DETECTOR)	
	LIT	LEVEL INDICATOR TRANSMITTER	TSL	TEMPERATURE SWITCH LOW (HEAT DETECTOR)	
	PCV	PRESSURE CONTROL VALVE	ZSC	POSITION SWITCH CLOSE (DOOR CONTACT)	

VALVE FUNCTION EXAMPLES (aaa)					
	ZY or ZC	POSITION COMPUTE/CONVERT (CONTROL) - AO	ZCC or YSC	POSITION CONTROL CLOSE - DO	
	ZT or ZI	POSITION TRANSMIT (FEEDBACK) - AI	ZSO	POSITION STATUS OPEN - DI	
	ZCO or YSO	POSITION CONTROL OPEN - DO	ZSC	POSITION STATUS CLOSE - DI	

MOTOR FUNCTION EXAMPLES (aaa)					
	HSA or HA	HAND STATUS AUTO (AUTO SIGNAL FROM THE HAND-OFF-AUTO SWITCH) - DI			
	MCR or YS	MOTOR CONTROL RUN (START) - DO			
	MSR or YC	MOTOR STATUS RUN - DI			
	MSF or YA	MOTOR STATUS FAULT (OVERLOAD) - DI			
	SY or SC	SPEED COMPUTE/CONVERT (CONTROL) - AO			
	ST or SI	SPEED TRANSMIT (FEEDBACK) - AI			
	TSH or YA	TEMPERATURE STATUS HIGH (THERMISTOR) - DI			
	LSH or YA	LEVEL STATUS HIGH (LEAKAGE IN SUBMERSIBLE PUMP SEAL) - DI			

EQUIPMENT TAG	
	LOCALLY MOUNTED INSTRUMENT
	PANEL MOUNTED INSTRUMENT
	BACK OF PANEL MOUNTED INSTRUMENT

PRESSURE CONTROL VALVE LEGEND (xx)	
	PRESSURE CONTROL VALVE
SU	SUSTAINING
RD	REDUCING
RL	RELIEVING
SA	SURGE ANTICIPATING
VR	VACUUM RELIEF

ANALYZING ELEMENT/ALARM LEGEND (yy)	
	PROCESS ANALYZER
CL2	CHLORINE
TURB	TURBIDITY
pH	pH
DO	DISSOLVED OXYGEN
CON	CONDUCTIVITY
TEMP	TEMPERATURE
PC	PARTICLE COUNT

BUILDING ANALYZING ELEMENT/ALARM LEGEND	
	BUILDING ANALYZER
y	H HIGH L LOW F FAULT
zz	SMK SMOKE H2S H2S CH4 METHANE CO CARBON MONOXIDE

FUNCTION BLOCK	
	SINGLE SIGNAL
	HMI
	MULTIPLE SIGNAL
bb	AI ANALOG INPUT AO ANALOG OUTPUT DI DIGITAL INPUT DO DIGITAL OUTPUT
y	H HART D DEVICE NET C CONTROL NET M MODBUS P PROFIBUS E ETHERNET
qq	PLC IDENTIFIER

INTERLOCK	
	X - INTERLOCK NUMBER (IF APPLICABLE) \$ - INTERLOCK SYSTEM (IE; PLC, DCS, MCC, VFD, ETC.)
	* - PACKAGE CONTROL INTERFACE \$ - CONTROL SYSTEM TYPE
	FIRE SYSTEM
	SECURITY MONITORING SYSTEM

POWER SUPPLY AND PURGE FLUIDS LEGEND			
AS	AIR SUPPLY	HS	HYDRAULIC SUPPLY
IS	INSTRUMENT AIR SUPPLY	NS	NITROGEN SUPPLY
PS	PLANT AIR SUPPLY	SS	STEAM SUPPLY
ES	ELECTRICAL SUPPLY	WS	WATER SUPPLY
GS	GAS SUPPLY		

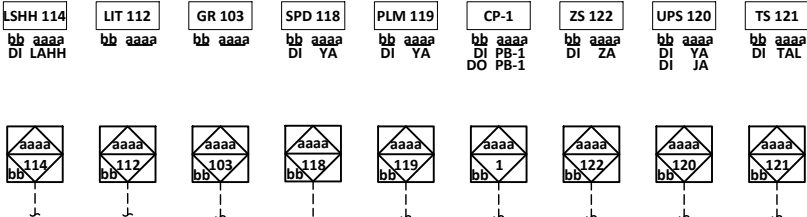
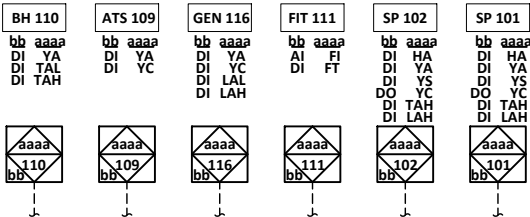
SIGNAL TYPES	
	PNEUMATIC SIGNAL
	ELECTRICAL SIGNAL
	HYDRAULIC SIGNAL
	CAPILLARY TUBING (FILLED SYSTEM)
	ELECTRO MAGNETIC OR SONIC SIGNAL (GUIDED)
	ELECTRO MAGNETIC OR SONIC SIGNAL (NOT GUIDED)
	INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)
	MECHANICAL LINK

FUNCTION SYMBOLS			
	PROPORTIONAL		ANALOG TO DIGITAL
	SQUARE ROOT EXTRACTOR		CURRENT TO PNEUMATIC CONVERTER
	HIGH SELECTOR		PNEUMATIC TO CURRENT TRANSDUCER
	LOW SELECTOR		VOLT TO PNEUMATIC TRANSDUCER
	DIVIDE		VOLT TO CURRENT TRANSDUCER
	MULTIPLY		MILLIVOLT TO CURRENT TRANSDUCER
	SUMMATION		CURRENT TO CURRENT TRANSDUCER
	DIFFERENCE		NON-LINEAR OR UNSPECIFIED FUNCTION
	BIAS		FUNCTION OF TIME
	EXPONENTIAL		REVERSE
	INTEGRAL		AUTO MANUAL
	DERIVATIVE		AVERAGE

NOTES:
1. ALL ELEVATIONS AND STATIONS ARE SHOWN IN METRES.
ALL PIPE LENGTHS, PIPE SIZES AND DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

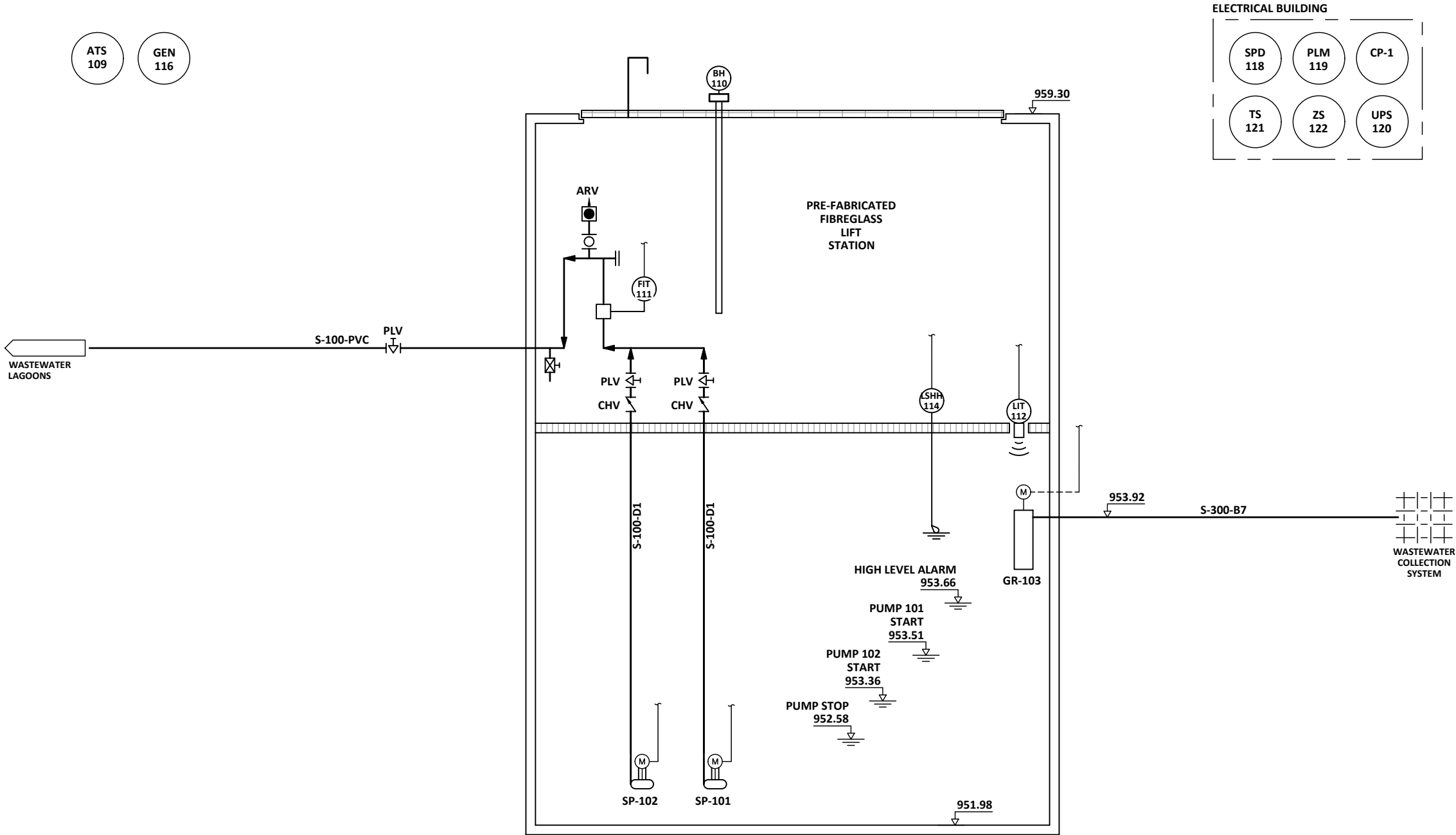
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ISSUE	YY-MM-DD	REVISION
a division of Englobe		
VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES PROCESS		
INSTRUMENTATION LEGEND		
DESIGNED	G.B.N., H.C.T.	JOB 1465-009-00
DRAWN	H.C.T.	SCALE
DATE	FEBRUARY 2024	DRAWING P0.3

CONTROL PANEL



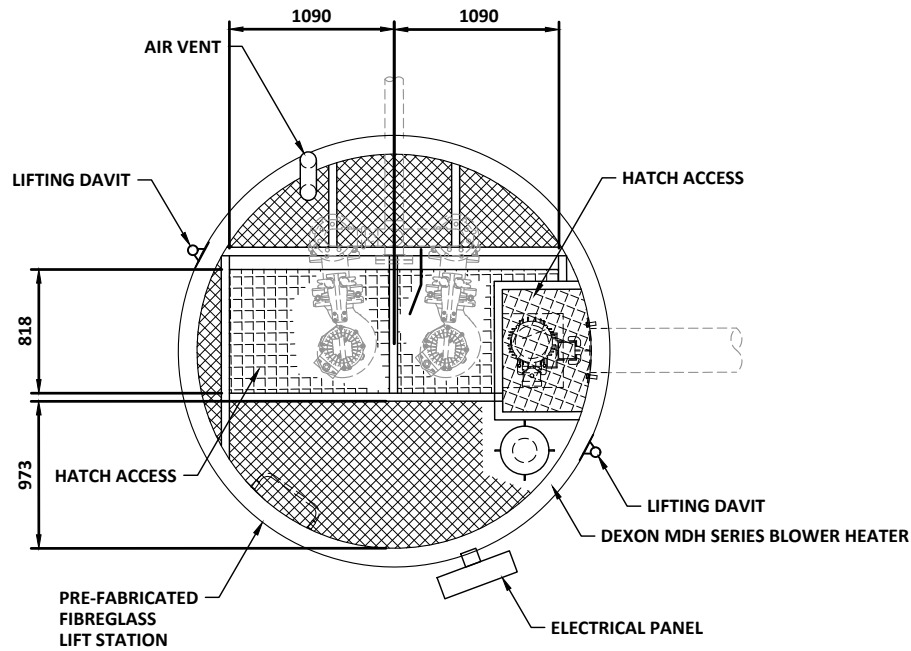
MCC

FIELD

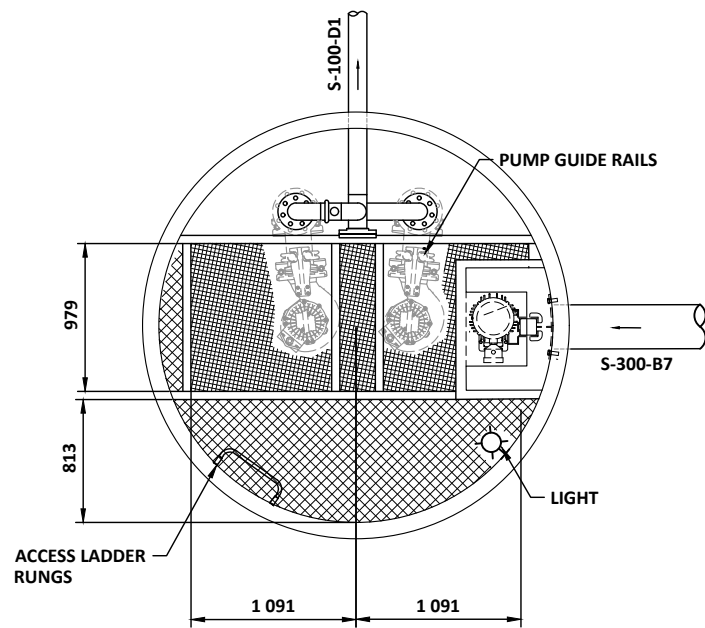


- NOTES:
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
 - ALL ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

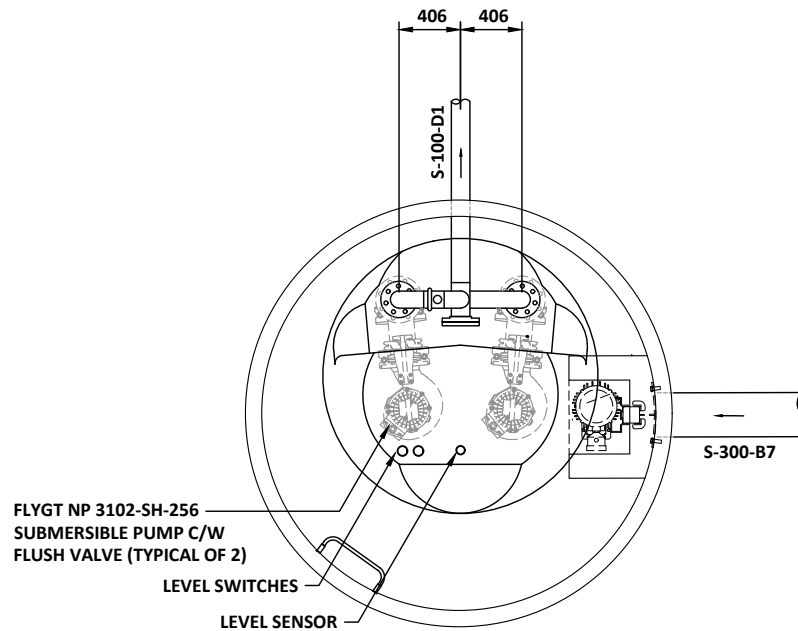
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ISSUE	YY-MM-DD	REVISION
DRAFT		
<div><div>MPE</div><div>a division of Englobe</div></div>		
VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES PROCESS LIFT STATION		
DESIGNED	G.B.N., H.C.T.	JOB 1465-009-00
DRAWN	H.C.T.	SCALE 1:50
DATE	FEBRUARY 2024	DRAWING P1.1



GROUND LEVEL PLAN



INTERMEDIATE DECK PLAN



FLOOR PLAN

- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
 2. ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

1	24-02-08	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

DRAFT
































































































































































































































VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
PROCESS
LIFT STATION LAYOUT PLAN

DESIGNED	G.B.N., H.C.T.	JOB	1465-009-00
DRAWN	H.C.T.	SCALE	1:50
DATE	FEBRUARY 2024	DRAWING	P1.2

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DISTRIBUTION	SWITCHES AND JUNCTIONS BOXES CONTINUED	COMMUNICATIONS	INSTRUMENTATION EQUIPMENT
<div><div> CONDUIT IDENTIFICATION TAG</div><div> GROUND BAR</div><div> METERING CABINET GREATER THAN 200A</div><div> POWER METER</div><div> ELECTRIC UTILITY METER 200A AND LESS</div><div> WATER METER</div><div> GAS METER</div><div> 120/24V LOW VOLTAGE TRANSFORMER</div></div>	<div><div> MANUAL MOTOR PROTECTION SWITCH C/W PILOT LIGHT</div><div> KEY OPERATED SWITCH - CYLINDER TYPE</div><div> TIMER SWITCH</div><div> DIMMER SWITCH - SLIDER TYPE</div><div> INTERNALLY ILLUMINATED LIGHT SWITCH</div><div> LOW VOLTAGE SWITCH</div><div> 2 GANG SWITCH</div><div> 3 GANG SWITCH</div><div> 4 GANG SWITCH</div><div> 5 GANG SWITCH</div><div> WALL MOUNTED PHOTOCELL</div><div> WALL MOUNTED JUNCTION BOX</div><div> FLOOR MOUNTED JUNCTION BOX</div><div> CEILING MOUNTED JUNCTION BOX</div><div> THERMOSTAT</div><div> NON-FUSEABLE DISCONNECT SWITCH</div><div> FUSEABLE DISCONNECT SWITCH</div><div> COMBINATION MAGNETIC HOA STARTER</div><div> O/H DOOR PUSH BUTTON</div><div> PULL BOX</div></div>	<div><div> WALL MOUNTED TELEPHONE OUTLET</div><div> WALL MOUNTED DATA OUTLET</div><div> WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET</div><div> WALL MOUNTED TELEVISION OUTLET</div><div> WALL MOUNTED CHIME OR BUZZER</div><div> CEILING MOUNTED TELEPHONE OUTLET</div><div> CEILING MOUNTED COMBINATION TELEPHONE/DATA OUTLET</div><div> CEILING MOUNTED TELEVISION OUTLET</div><div> CEILING MOUNTED DATA OUTLET (No. OF OUTLETS)</div><div> FLOOR MOUNTED DATA OUTLET (No. OF OUTLETS)</div><div> FLOOR MOUNTED TELEPHONE OUTLET (No. OF OUTLETS)</div><div> FLOOR MOUNTED TELEVISION OUTLET (No. OF OUTLETS)</div><div> FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS)</div><div> RADIO LINK</div></div>	<div><div> LEVEL SWITCH (OPEN ON RISING LEVEL)</div><div> LEVEL SWITCH (OPEN ON FALLING LEVEL)</div><div> FLOW SWITCH (OPEN ON RISING FLOW)</div><div> FLOW SWITCH (OPEN ON FALLING FLOW)</div><div> PRESSURE SWITCH (OPEN ON RISING PRESSURE)</div><div> PRESSURE SWITCH (OPEN ON FALLING PRESSURE)</div><div> TEMPERATURE SWITCH (OPEN ON RISING TEMPERATURE)</div><div> TEMPERATURE SWITCH (OPEN ON FALLING TEMPERATURE)</div><div> LIMIT SWITCH (NC)</div><div> LIMIT SWITCH (NO)</div><div> TIME DELAY RELAY (NC)</div><div> TIME DELAY RELAY (NO)</div><div> INSTRUMENTATION IDENTIFICATION TAG</div></div>
LIGHTING	LIFE SAFETY	CONTROL PANEL EQUIPMENT	PLC I/O
<div><div> SURFACE MOUNTED LIGHT FIXTURE</div><div> RECESSED LIGHT FIXTURE</div><div> RECESSED LIGHT FIXTURE WITH END PLATES</div><div> SURFACE MOUNTED STRIP LIGHT FIXTURE</div><div> UNDER CABINET/VAIENCE STRIP LIGHT FIXTURE</div><div> WALL MOUNTED CUBED LIGHT FIXTURE</div><div> SURFACE MOUNTED LIGHT FIXTURE</div><div> RECESSED LIGHT FIXTURE</div><div> WALL MOUNTED LIGHT FIXTURE</div><div> WALL MOUNTED LIGHT FIXTURE ON EMERGENCY</div><div> TRACK LIGHT C/W PENDANT HEADS</div><div> TRACK LIGHT C/W ADJUSTABLE HEADS</div><div> BOLLARD LIGHT FIXTURE</div><div> POLE MOUNTED LIGHT FIXTURE (ONE HEAD SHOWN)</div></div>	<div><div> CEILING MOUNTED EXIT LIGHT SINGLE FACE</div><div> CEILING MOUNTED EXIT LIGHT DOUBLE FACE</div><div> CEILING COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY</div><div> WALL MOUNTED EXIT LIGHT SINGLE FACE</div><div> WALL MOUNTED EXIT LIGHT DOUBLE FACE</div><div> WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY</div><div> EXIT LIGHT DIRECTIONAL ARROW</div><div> WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK</div><div> CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD</div><div> WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD</div><div> SMOKE DETECTOR</div><div> SMOKE ALARM - 120V</div></div>	<div><div> RESET PUSH BUTTON (NO)</div><div> RESET PUSH BUTTON (NC)</div><div> MUSHROOM HEAD STOP</div><div> 3 POSITION SELECTOR SWITCH</div><div> 2 POSITION SELECTOR SWITCH</div><div> HAND-OFF-AUTO SELECTOR SWITCH</div><div> UP-OFF-DOWN SELECTOR SWITCH</div><div> RESET PUSH BUTTON</div><div> AMBER PILOT LIGHT</div><div> GREEN PILOT LIGHT</div><div> RED PILOT LIGHT</div><div> DUPLEX RECEPTACLE</div><div> SINGLE PHASE PLUG</div><div> MAIN CONTROL PANEL FUSED TERMINAL BLOCK</div><div> AUXILIARY FUSED TERMINAL BLOCK</div><div> CIRCUIT BREAKER</div><div> MAIN CONTROL PANEL TERMINAL BLOCK</div><div> PLC/RTU TERMINAL</div><div> AUXILIARY TERMINAL BLOCK</div><div> MCC/VFD TERMINAL BLOCK</div><div> DEVICE TERMINAL BLOCK</div><div> DRY CONTACT RELAY</div><div> TIME DELAY RELAY</div><div> MAGNETIC CONTACTOR</div><div> SOLENOID</div><div> DRY CONTACT RELAY (NC)</div><div> DRY CONTACT RELAY (NO)</div><div> VARIABLE RESISTOR</div><div> RESISTOR</div><div> THERMISTOR</div><div> DIODE</div><div> METAL OXIDE VARISTOR</div></div>	<div><div> PLC DI</div><div> PLC DO</div><div> PLC AI</div><div> PLC AO</div></div>
POWER	POWER EQUIPMENT	MISCELLANEOUS AND LABELS	
<div><div> DUPLEX RECEPTACLE</div><div> SPLIT FEED RECEPTACLE</div><div> FOURPLEX RECEPTACLE</div><div> SWITCHED DUPLEX RECEPTACLE</div><div> 20A T-SLOT RECEPTACLE (KITCHEN)</div><div> TWISTLOCK RECEPTACLE</div><div> 208 VOLT 1PH RECEPTACLE</div><div> 208 VOLT 3PH RECEPTACLE</div><div> WALL MOUNTED USB PORT</div><div> PEDESTAL DUPLEX RECEPTACLE</div><div> WALL MOUNTED PUSH BUTTON</div><div> WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS)</div><div> WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD)</div><div> CEILING MOUNTED DUPLEX RECEPTACLE</div><div> CEILING MOUNTED FOURPLEX RECEPTACLE</div><div> CEILING MOUNTED 208 VOLT 1PH RECEPTACLE</div><div> CEILING MOUNTED 208 VOLT 3PH RECEPTACLE</div><div> AUXILIARY RELAY</div><div> CEILING MOUNTED POWER ZONE BOX</div><div> REEL DOWN RECEPTACLE</div><div> PACK POLE</div><div> FLOOR MOUNTED DUPLEX RECEPTACLE (No. OF OUTLETS)</div><div> FLOOR MOUNTED FOURPLEX RECEPTACLE (No. OF OUTLETS)</div><div> FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE</div><div> FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE</div><div> MOTOR</div><div> MOTOR WITH DISCONNECT SWITCH</div><div> MOTOR WITH FUSIBLE DISCONNECT SWITCH</div><div> MOTOR WITH COMBINATION DISCONNECT SWITCH</div><div> MAGNETIC MOTOR STARTER</div><div> HOME RUN WITH WIRE COUNT</div><div> WIRELESS ACCESS POINT</div><div> HEAT TRACING</div><div> PIN AND SLEEVE CONNECTOR (FEMALE)</div><div> PIN AND SLEEVE CONNECTOR (MALE)</div></div>	<div><div> DELTA WYE TRANSFORMER</div><div> DISTRIBUTION TRANSFORMER</div><div> POTENTIAL TRANSFORMER</div><div> FUSE DRAW OUT TYPE</div><div> CIRCUIT BREAKER DRAW OUT TYPE</div><div> 3 PHASE GENERATOR (GROUNDED)</div><div> THERMAL OVERLOAD PROTECTION</div><div> INTERLOCK</div><div> CAPACITOR</div><div> CURRENT METER</div><div> CONTACTOR</div><div> FUSE</div><div> DISCONNECT SWITCH</div><div> FUSED DISCONNECT SWITCH</div><div><div><div> CIRCUIT BREAKER</div><div>FRAME SIZE</div></div><div><div> CIRCUIT BREAKER</div><div>TRIP RATING</div></div><div><div> CIRCUIT BREAKER</div><div>POLE</div></div></div><div> ELAPSED TIME METER</div><div> GROUND ROD</div><div> GROUND ROD C/W WELL</div><div> GROUND ROD WITHOUT WELL</div><div><div><div> HEATER C/W KILOWATT RATING</div><div>x kw</div></div></div><div> TRANSFER SWITCH</div></div>	<div><div> REVISION NUMBER</div><div> FIXTURE TYPE</div><div> MECHANICAL EQUIPMENT IDENTIFICATION TAG</div><div> KITCHEN EQUIPMENT TAG</div><div> KEY NOTES</div><div> SINGLE LINE BREAK</div><div> DOUBLE LINE BREAK</div><div> CAPPED OFF LINE OR CONDUIT</div><div> CONDUIT BREAK</div><div> CABLE TRAY</div><div> DW DISH WASHER</div><div> F FRIDGE</div><div> R RANGE</div><div> M MICROWAVE</div><div> G GARBURATOR</div><div> D DRYER</div><div> W WASHER</div><div> NL NIGHT LIGHT</div><div> TP TAMPER PROOF</div><div> GFCI GROUND FAULT CIRCUIT INTERRUPTER</div><div> IG ISOLATED GROUND</div><div> EM EMERGENCY</div><div> AF AMP FRAME</div><div> AT AMP TRIP</div><div> WP WEATHER PROOF</div><div> XP EXPLOSION PROOF</div><div> E EXISTING DEVICE TO REMAIN</div><div> X EXISTING DEVICE TO BE REMOVED</div><div> ER EXISTING DEVICE TO BE RELOCATED</div><div> RD RELOCATED DEVICE</div><div> WIRE COUNT</div><div> CONDUIT RUN UP</div><div> CONDUIT RUN DOWN</div><div> OH OVERHEAD POWER</div><div> UG UNDERGROUND POWER</div><div> CONDUCTOR/CONDUIT</div><div> UNDERGROUND CONDUCTOR/CONDUIT</div><div> FLEXIBLE CONDUIT</div><div> EXISTING EQUIPMENT</div><div> NEW EQUIPMENT</div><div> EQUIPMENT TO BE REMOVED</div></div>	
SWITCHES AND JUNCTIONS BOXES			
<div><div> LINE VOLTAGE SWITCH</div><div> SWITCH C/W PILOT LIGHT</div><div> TWO POLE SWITCH</div><div> THREE WAY SWITCH</div><div> FOUR WAY SWITCH</div></div>			

NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

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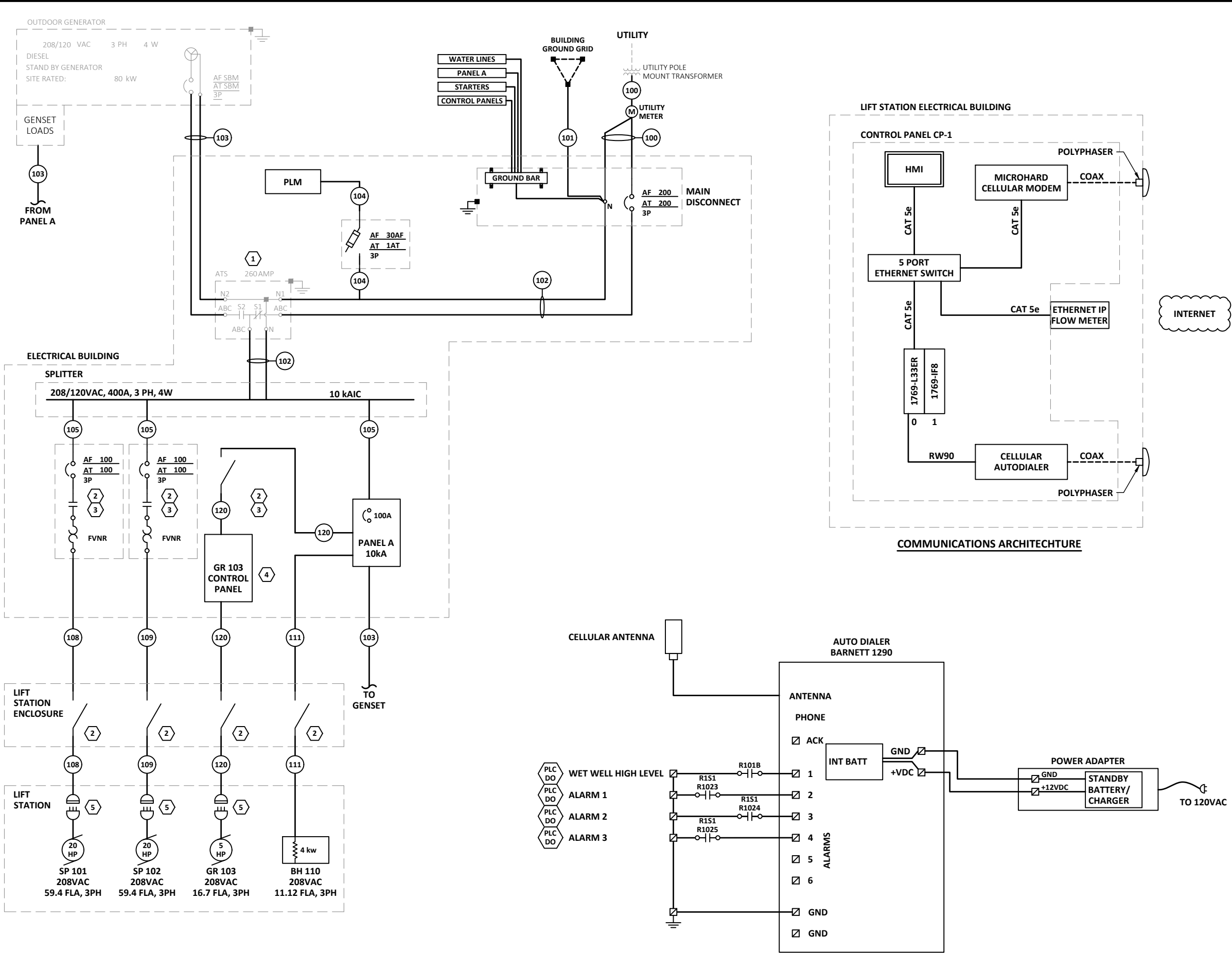
VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
LEGEND

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E0.1

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- KEY NOTES:
- EXISTING OUTDOOR ATS TO BE RELOCATED INSIDE NEW ELECTRICAL BUILDING.
 - DISCONNECTS TO BE LOCKABLE TYPE.
 - CONFIRM ACTUAL MOTOR NAMEPLATE REQUIREMENTS AND PROVIDED MODIFIED BREAKER, STARTER, AND CONDUCTOR SIZING AS REQUIRED.
 - GR 103 CONTROL PANEL TO BE PRE-ASSEMBLED BY OTHERS.
 - HAZARDOUS RATED PIN AND SLEEVE RECEPTACLE C/W AUXILIARY MONITORING CONTACTS.

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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
SINGLE LINE DIAGRAM

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E1.1

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PROPOSED PLAN
1:125

- NOTES:
- COORDINATE MODIFICATION OF SERVICE CONNECTION WITH UTILITY.
- KEY NOTES:
- UTILITY TO DEMOLISH EXISTING OVERHEAD SERVICE CONDUCTORS FROM CUSTOMER SERVICE CONNECTION TO UTILITY POLE MOUNT TRANSFORMER.
 - DEMOLISH MAIN SERVICE CONNECTION WITHIN ATS BACK TO PULL BOX ON EXISTING BUILDING. COORDINATE CHANGEOVER PLAN WITH OWNER PRIOR TO MODIFYING ATS CONNECTIONS. EXISTING ATS TO BE RELOCATED, SEE E1.3.

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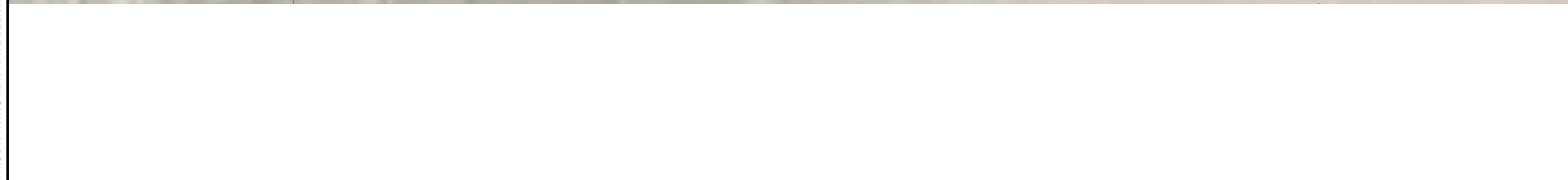



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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
DEMOLITION SITE PLAN

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E1.2

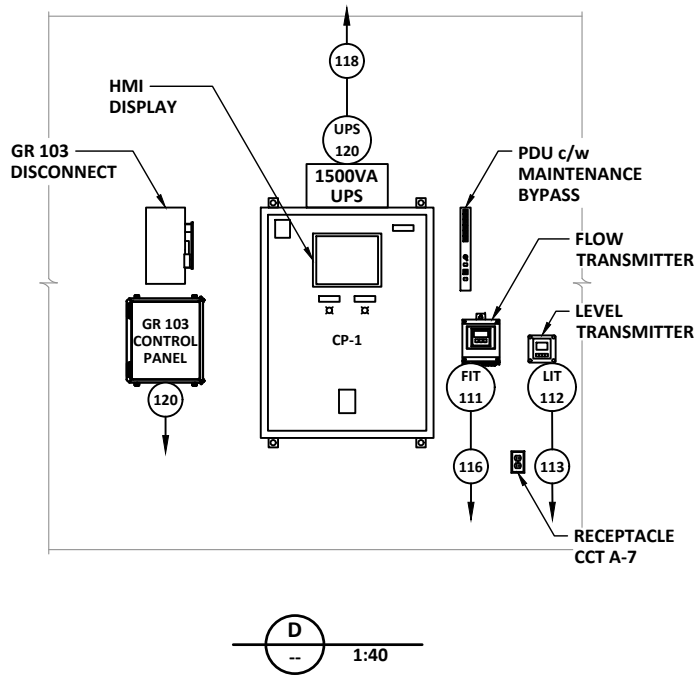
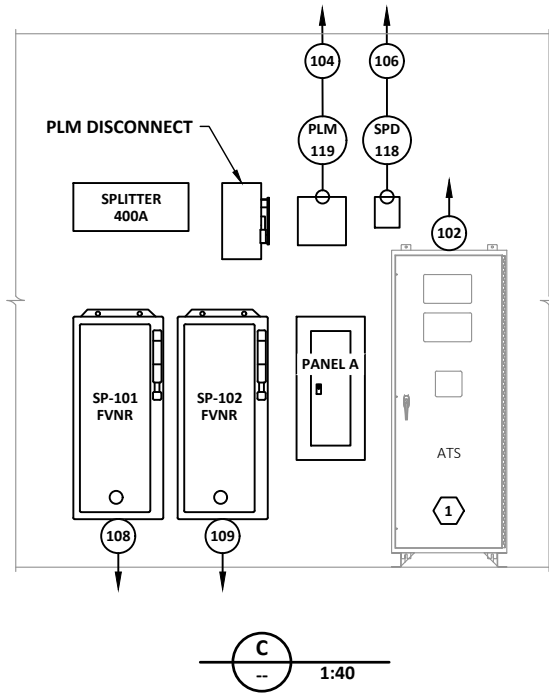
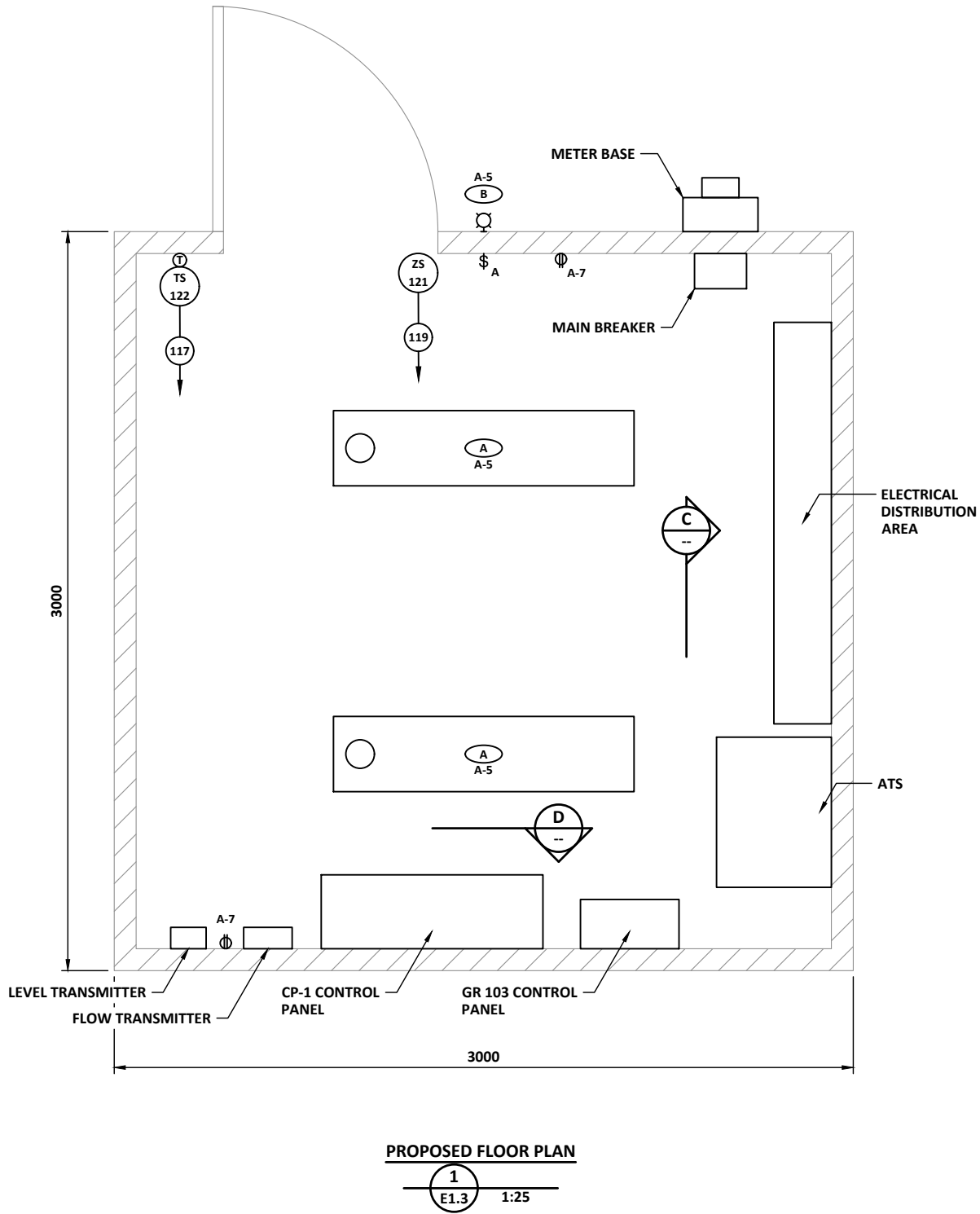


-  **KEY NOTES:**
1. REFER TO UTILITY SERVICE AND METERING GUIDE FOR METER BASE INSTALLATION.
 2. CONDUIT PENETRATIONS INTO ELECTRICAL BUILDING TO BE PROPERLY SEALED TO PREVENT INGRESS OF VERMIN, WATER, AND OTHER WEATHER EFFECTS.

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VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES ELECTRICAL PROPOSED SITE PLAN		
DESIGNED	Z.Y.M., P.P.G.	JOB 1465-009-00
DRAWN	Z.Y.M.	SCALE 1:25
DATE	FEBRUARY 2024	DRAWING E1.3

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- KEY NOTES:
- EXISTING OUTDOOR ATS TO BE RELOCATED INSIDE NEW ELECTRICAL BUILDING.

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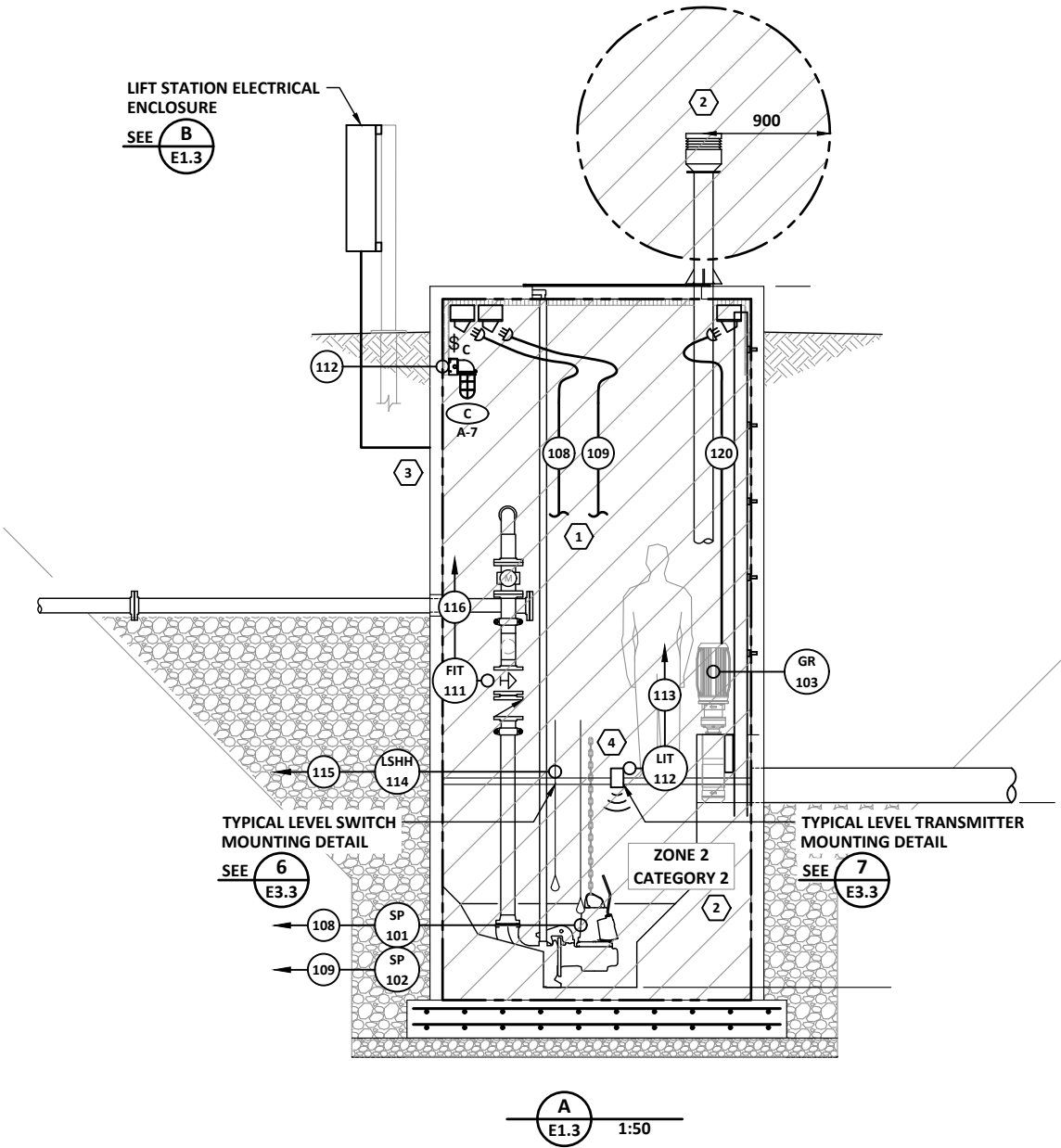
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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
PROPOSED FLOOR PLAN

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E1.4



AREA CLASSIFICATION:

1. THE AREA INSIDE THE SEWAGE WET WELL IS TO BE CONSIDERED A HAZARDOUS ENVIRONMENT. ALL INSTALLATION AND MATERIALS TO MEET REQUIREMENTS SET OUT BY CANADIAN ELECTRICAL CODE (CEC) AND OTHER RELEVANT STANDARDS.
2. HAZARDOUS MATERIAL: SEWAGE WASTE WATER.

POTENTIAL GASSES	APPROXIMATE AUTOIGNITION TEMPERATURE	FLAMMABLE / EXPLOSIVE LIMITS
HYDROGEN SULFIDE (H2S)	232°C	4.3% - 46%
METHANE (CH4)	537°C	4.4% - 17%
AMMONIA (NH4+)	651°C	15% - 28%

3. AREA TYPE: WASTE WATER PUMPING STATION WET WELL.
4. VENTILATION: MINIMUM 6 AIR EXCHANGES PER HOUR.
5. CEC SECTION 18 AREA RATING: ZONE 2 EXPLOSIVE GAS (DIVISION 2).
6. CEC SECTION 22 AREA RATING: CATEGORY 2 CORROSIVE VAPOUR.
7. WIRING METHODS:
 - TECK CABLE WITH "HL" RATING SPACED MINIMUM 12mm FROM WALL.
 - ACIC CABLE WITH "HL" RATING, SPACED MINIMUM 12mm FROM WALL.
 - RIGID ALUMINIUM PVC COATED (RA PVC, "ROBROY").
8. SEALING METHODS:
 - TECK CABLE: SEE ZONE 2 CABLE SEALING DETAIL.
 - RA PVC: POURED EYS SEALS OUTSIDE OF THE RATED AREA. INSTALLATION ONLY PERMITTED WHERE CABLING IS NOT PART OF A PRE-MANUFACTURED EQUIPMENT ASSEMBLY.
 - PRE-MANUFACTURED CABLE: SEE ZONE 2 CABLE SEALING DETAIL.
9. EQUIPMENT RATINGS: ALL ELECTRICAL EQUIPMENT IN THE WET WELL IS TO BE CONSTRUCTED AND CERTIFIED AS AN "INTRINSICALLY SAFE FIELD DEVICE" WITH A RATING EQUAL TO OR GREATER THAN THE HAZARDOUS AREA RATING. THE EQUIPMENT AT MINIMUM SHALL INCLUDE ONE OF THE FOLLOWING CSA MARKINGS:
 - ZONE 0: IS, I.S., Ex i, Ex ia
 - ZONES 1 AND 2: ALL OF ZONE 0, Ex ib
 - ZONE 2: ALL OF ZONES 0 AND 1, Ex icREFER TO CEC 22.1-18 TABLE 18 FOR FURTHER MARKINGS.
10. GROUNDING AND BONDING: STRUCTURAL STEEL BELOW GROUND IN CONTACT WITH EARTH SHALL BE BONDED TO THE SYSTEM GROUND.

NOTES:

1. CONTRACTOR TO INSTALL ALL LOOSE SHIPPED EQUIPMENT WITH LIFT STATION SUCH AS: FLOW METER, LEVEL SWITCHES, LEVEL TRANSDUCER, LIGHTS, PUMP CABLES.
- KEY NOTES:
1. PROVIDE IP68 PIN AND SLEEVE CONNECTORS FOR THE PUMPS AND INSTALL SUCH THAT THE CONNECTORS ARE WITHIN REACHING DISTANCE OF HATCH OPENING. ATTACH PUMP CABLES TO PUMP GUIDE RAIL HOOKS WITH KELLUM GRIPS SUCH THAT THE CABLES HANG FREELY DOWN TO THE PUMPS AND ALLOWS THE PUMPS TO BE PULLED EASILY. ROUTE CABLING FROM KELLUM GRIP TO RECEPTACLES SUCH THAT THE PUMP CABLING DOES NOT INTERFERE WITH GUIDE RAILS AND THE HATCH OPENING.
 2. ALL EQUIPMENT AND WIRING INTERCONNECTIONS IN WET WELL TO BE RATED CLASS 1 ZONE 2. INSTALL POURED CONDUIT SEALS FOR ALL CONDUITS ENTERING ENCLOSURE. ALL EQUIPMENT LOCATED WITHIN 900 OF HATCH/VENTS/BLOWER IS TO BE CONSIDERED CLASS 1 ZONE 2.
 3. PROVIDE AND INSTALL APPROPRIATE CONDUIT CONNECTIONS FOR THE FIBREGlass PENETRATIONS INTO LIFT STATION.
 4. MOUNT LEVEL INSTRUMENTS TO SCH40 PVC PIPE CAP AND FLANGE BOLTED TO GRATING WITH STAINLESS STEEL.

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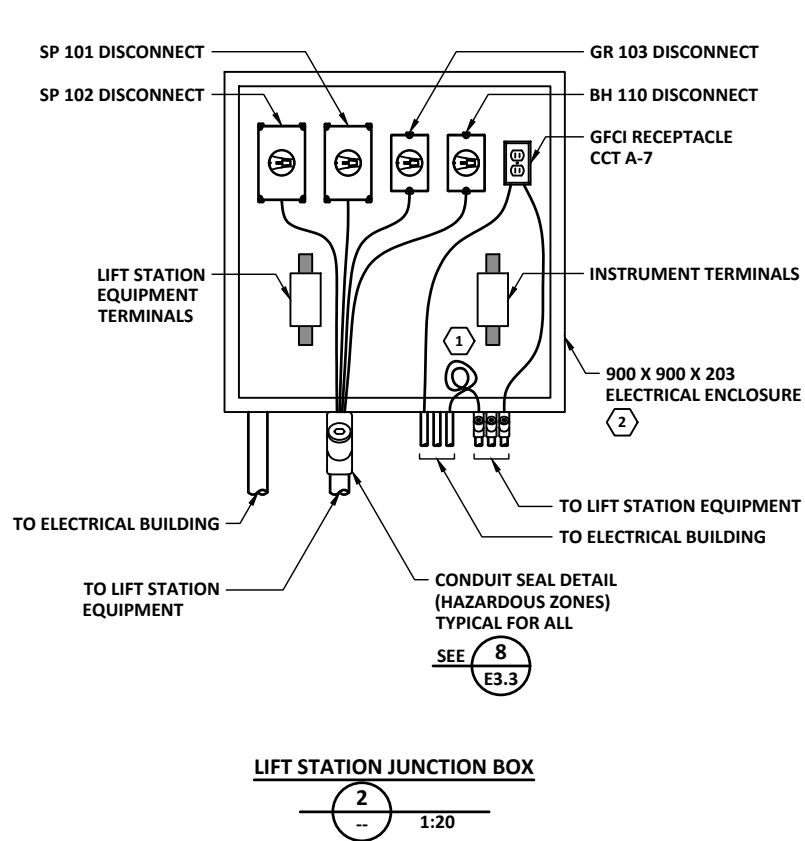
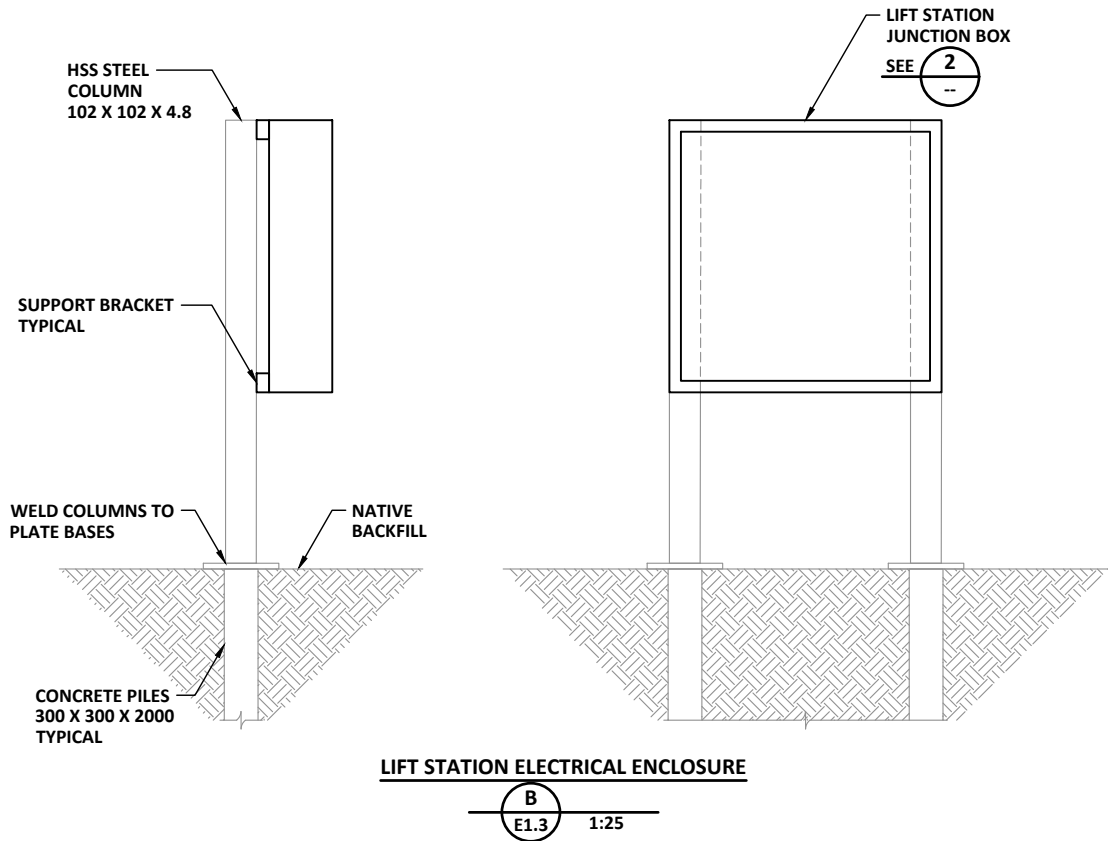
VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
LIFT STATION SECTIONS 1 OF 2


DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E1.5

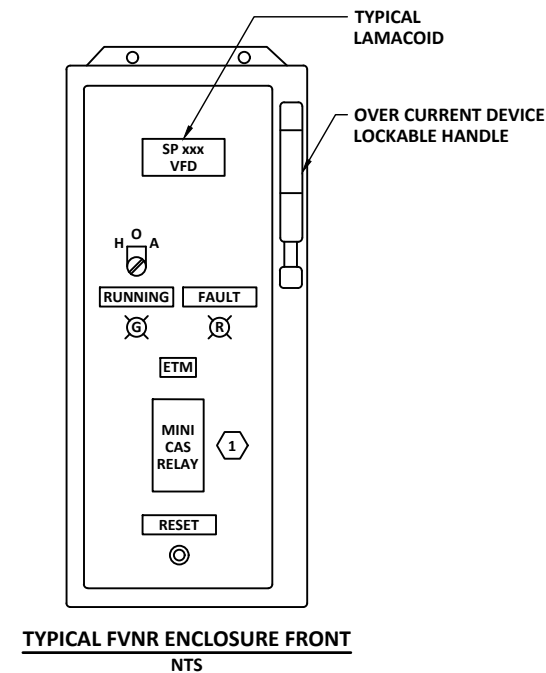
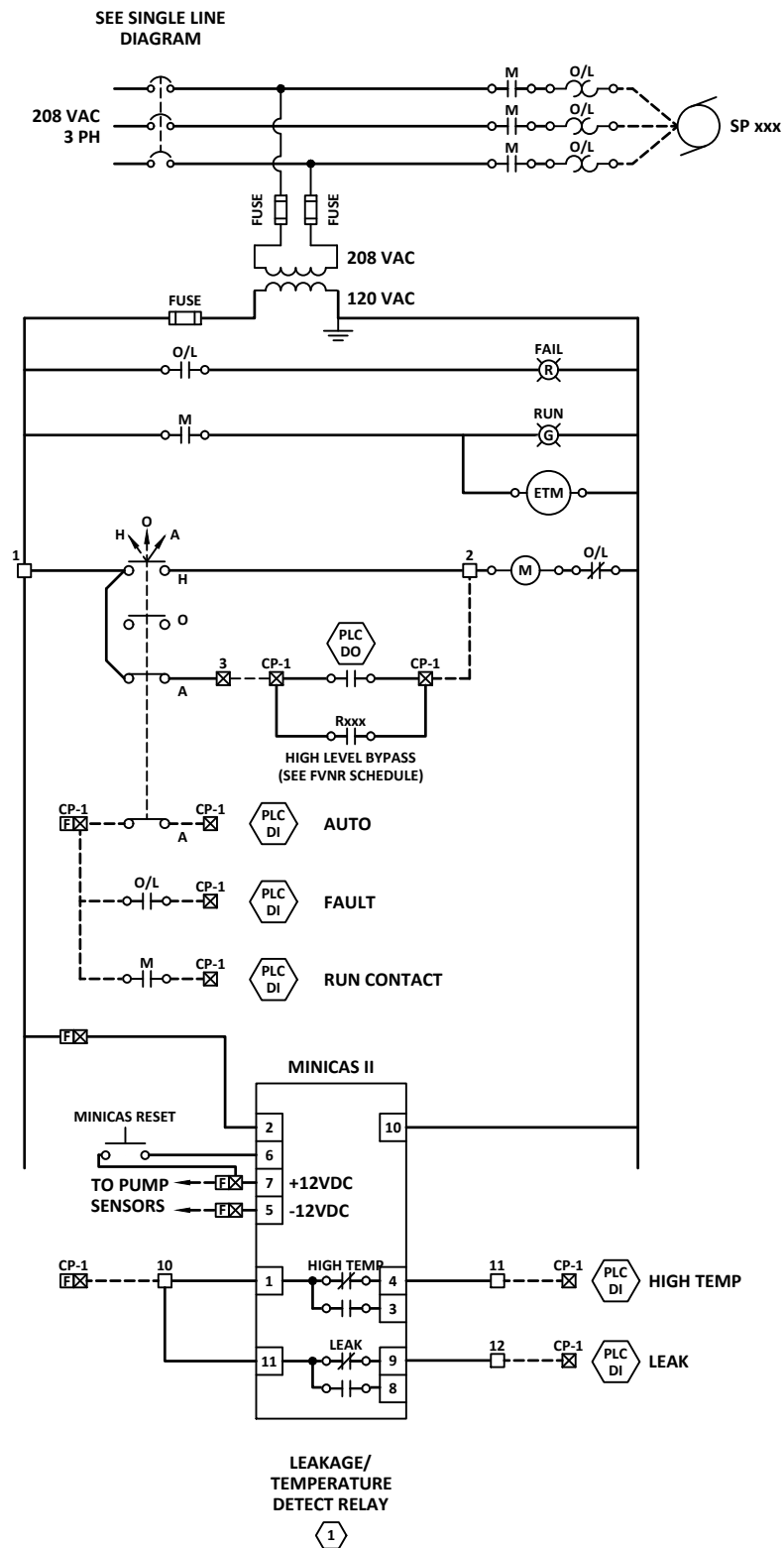
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- NOTES:
- 1.
- KEY NOTES:
1. COIL 1000mm OF CABLE. TYPICAL FOR ALL PRE-MANUFACTURED CABLES.
2. ENCLOSURE TO BE NEMA 3R, LOCKABLE, AND CSA CERTIFIED.

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VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES ELECTRICAL LIFT STATION SECTIONS 2 OF 2		
DESIGNED	Z.Y.M., P.P.G.	JOB 1465-009-00
DRAWN	Z.Y.M.	SCALE
DATE	FEBRUARY 2024	DRAWING E1.6



KEY NOTES:

1. MOUNT MINI CAS RELAY ON VFD DOOR. RELAY TO COME WITH DOOR MOUNTING BRACKET. ENSURE MINI CAS INDICATORS ARE VISIBLE ON FRONT OF CONTROL PANEL DOOR. PROVIDE AND INSTALL LAMACOID LABELS INDICATING RELAY INDICATOR DESCRIPTIONS. MOUNT MINI CAS RELAY RESET BUTTON ON VFD DOOR WITH LAMACOID LABEL.

FVNR STARTER SCHEDULE		
PUMP TAG	HP	HIGH LEVEL BYPASS RELAY
SP 101	20	R103
SP 102	20	R105

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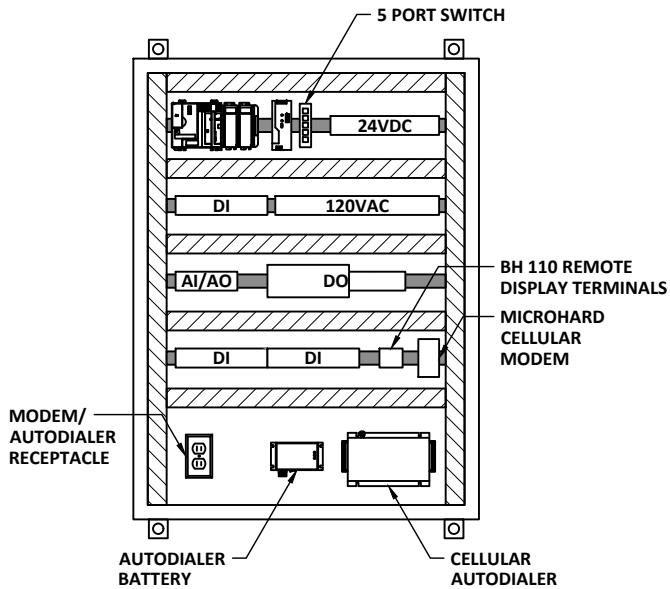
VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES ELECTRICAL TYPICAL FVNR DETAILS

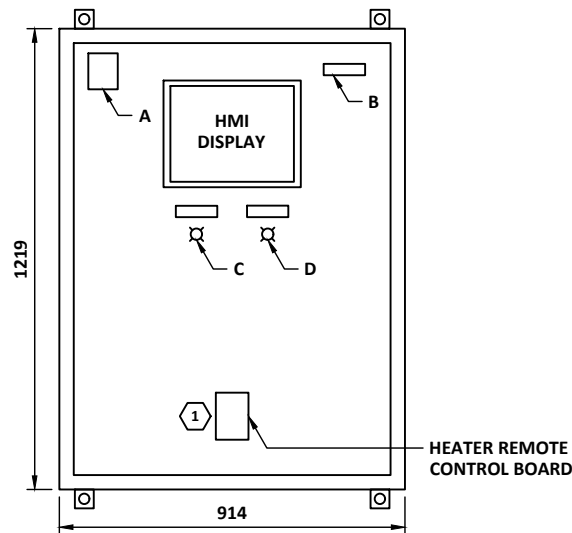
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DATE	FEBRUARY 2024	DRAWING	E1.7

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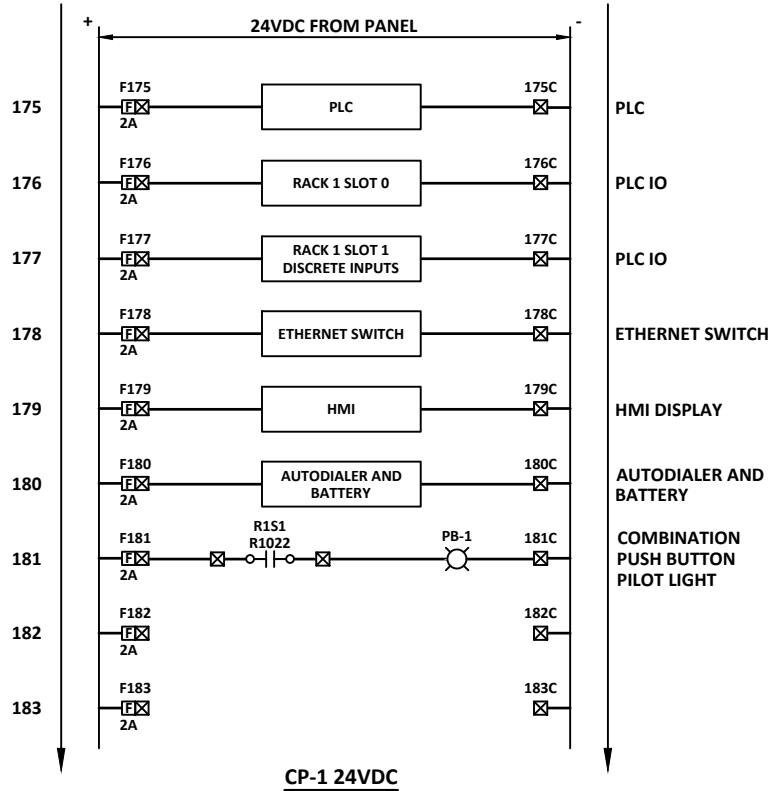
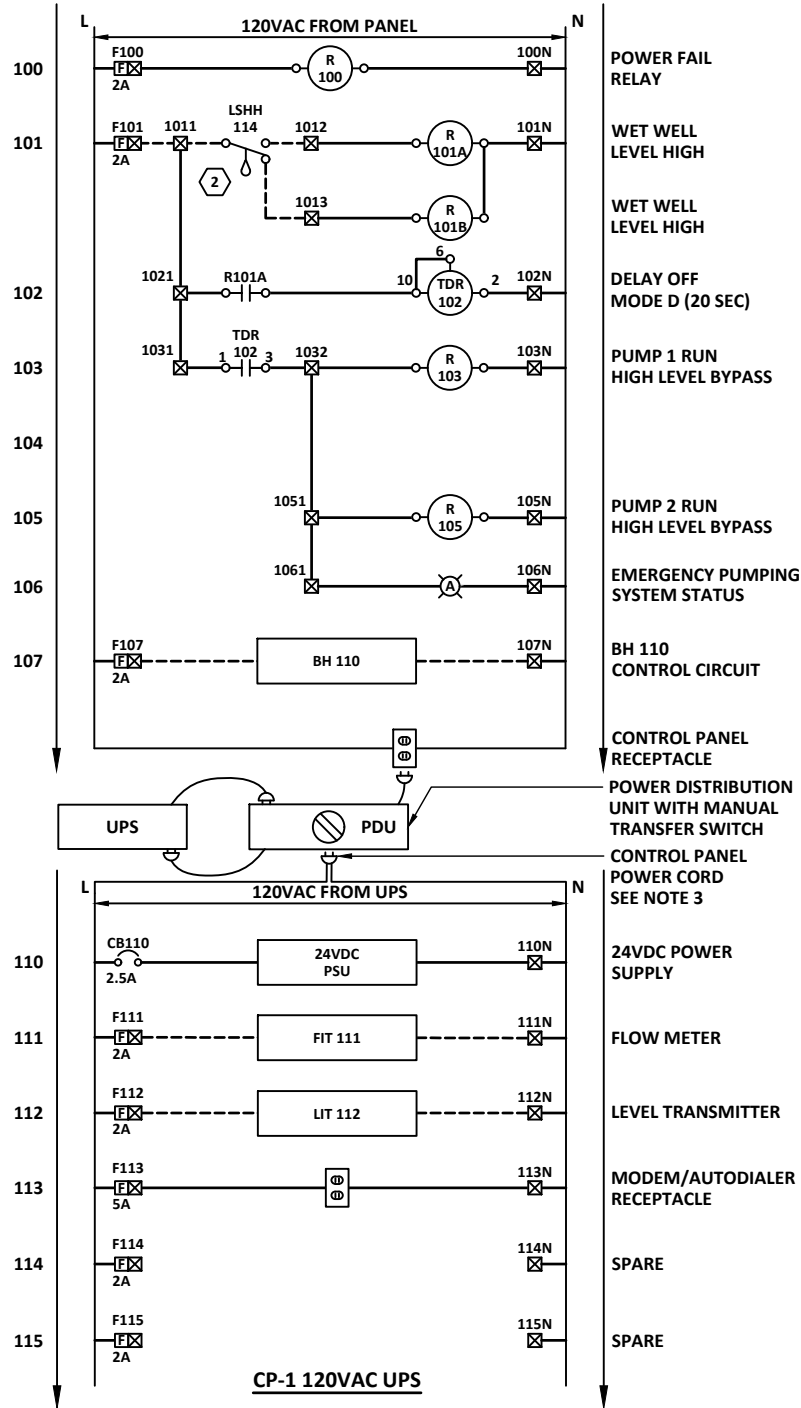
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CONTROL PANEL CP-1 INTERIOR
1:20



CONTROL PANEL CP-1 EXTERIOR
1:20



CP-1 24VDC

- NOTES:
1. ——— WIRING INTEGRAL TO PANEL.
 2. - - - - FIELD WIRING.
 3. ALL ALARM CIRCUITS TO BE SUPERVISED TYPE WHERE APPLICABLE.
 4. CONTROL PANEL INTERIOR LAYOUT SHOWN AS POSSIBLE LAYOUT. CONTRACTOR TO CONFIRM ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING. PROVIDE LARGER PANEL WHERE REQUIRED.
 5. SEE E1.1 FOR COMMUNICATION ARCHITECTURE.

- KEY NOTES:
1. INSTALL BLOWER HEATER REMOTE DISPLAY RECESSED INTO FRONT DOOR OF CONTROL PANEL. TERMINATE ALL DISPLAY WIRING ON TERMINALS IN CONTROL PANEL.
 2. PROVIDE INTRINSIC SAFETY BARRIER AS REQUIRED TO MEET MANUFACTURER'S REQUIREMENTS FOR INSTALLATION IN HAZARDOUS LOCATIONS.

LABEL LIST	
ITEM	DESC.
A	THIS PANEL CONTAINS MORE THAN ONE VOLTAGE SOURCE
B	CP-1
C	PUMP EMERGENCY RUN
D	PB-1 RESET

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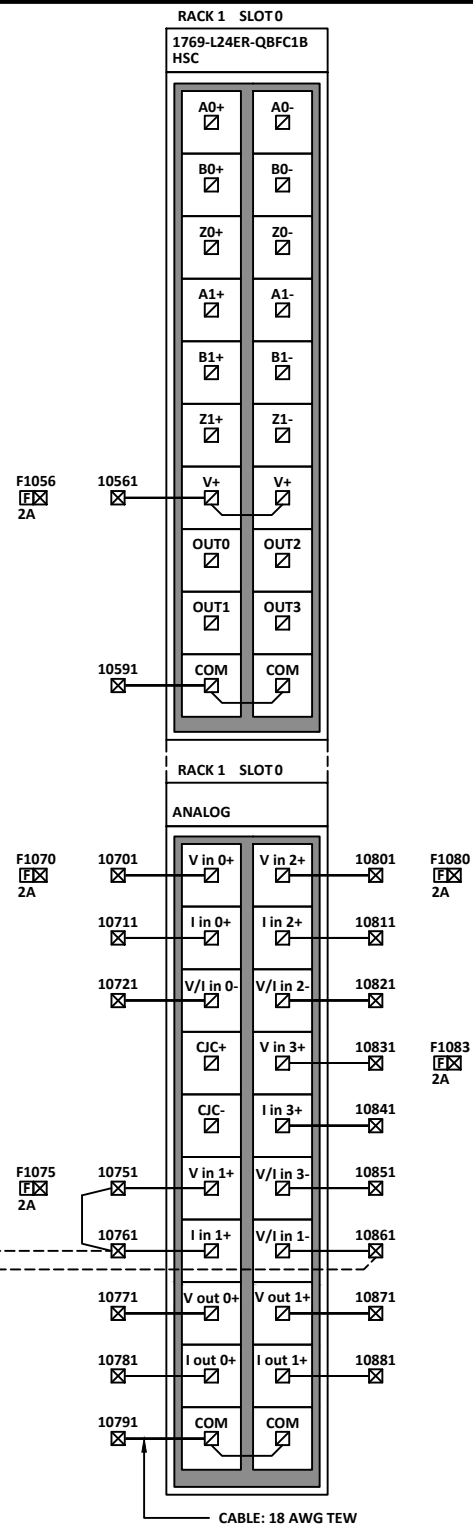
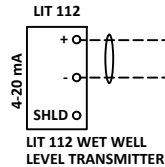
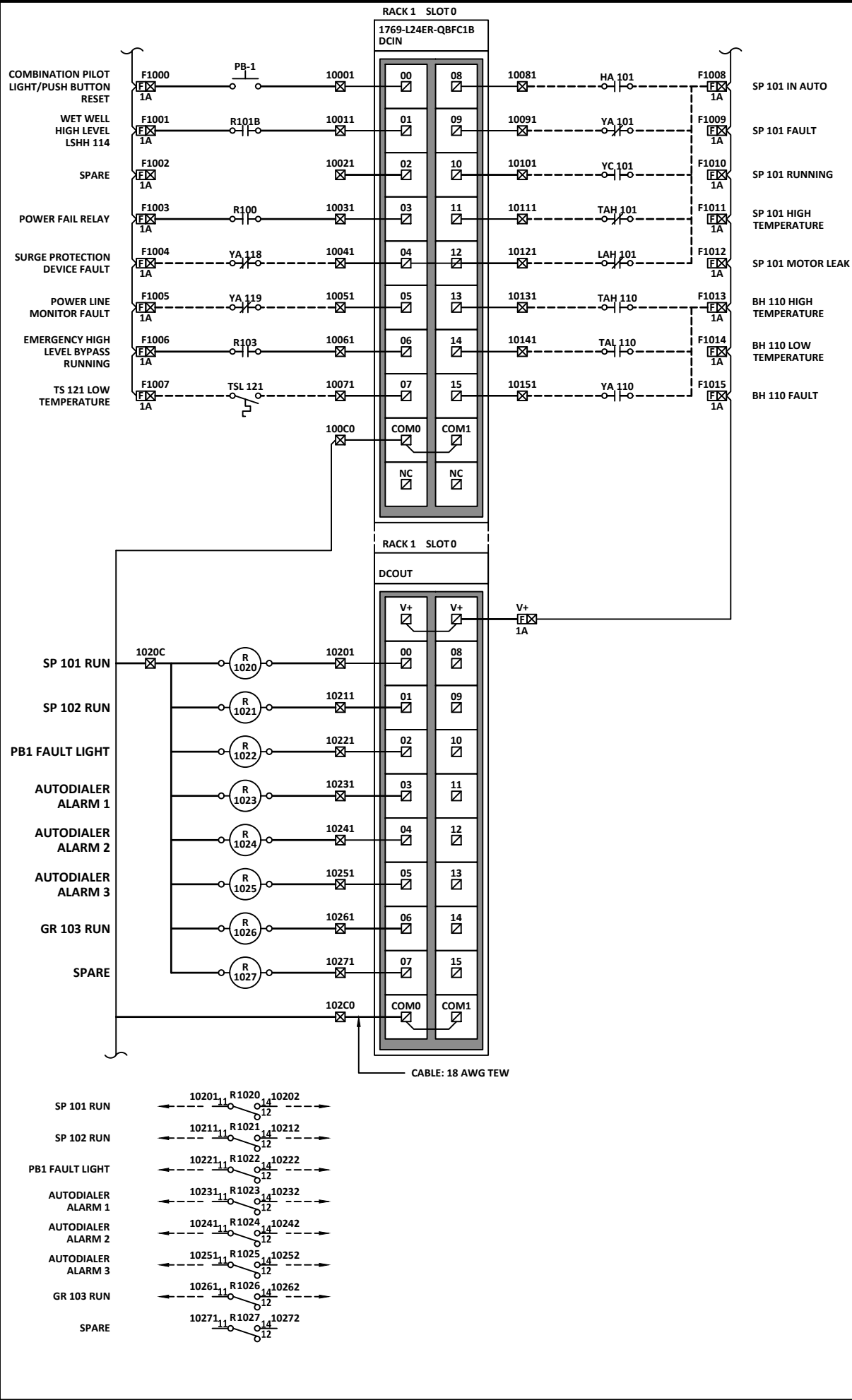
VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
CONTROL PANEL LAYOUT

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E2.1

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- NOTES:
1. WIRING INTEGRAL TO PANEL.
 2. FIELD WIRING.
 3. ALL ALARM CIRCUITS TO BE SUPERVISED TYPE WHERE APPLICABLE.
 4. SHIELD/DRAIN WIRES TO BE CONNECTED AT ONE END ONLY AND AS PER MANUFACTURER'S INSTRUCTIONS FOR MAXIMUM NOISE IMMUNITY.

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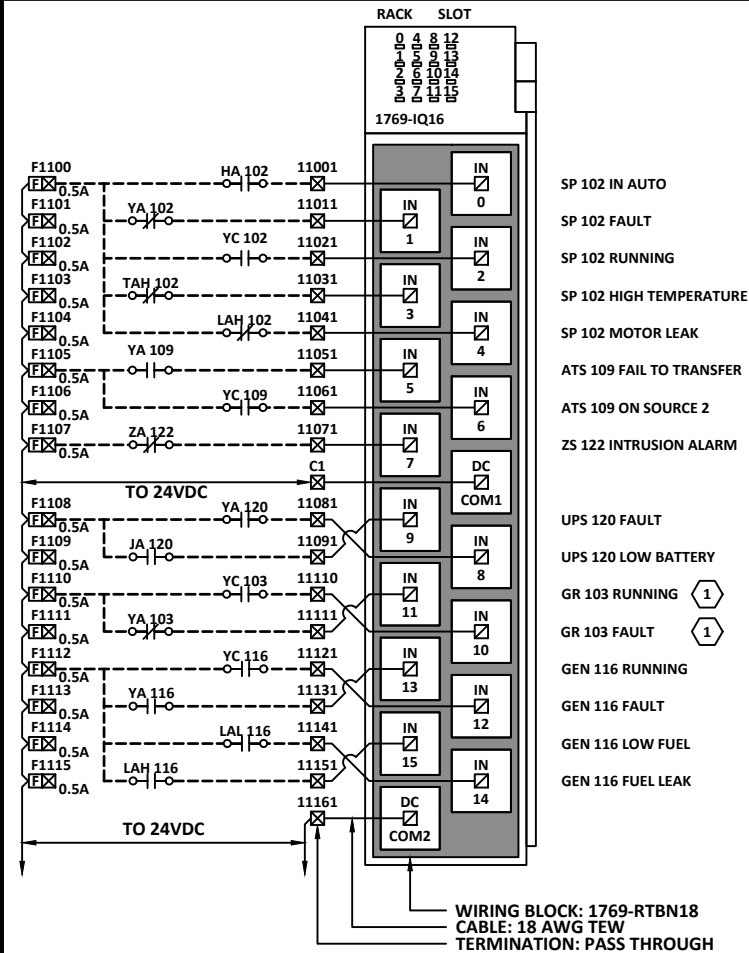
VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
PLC IO 1 OF 2


DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E2.2

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- NOTES:
1. WIRING INTEGRAL TO PANEL.
 2. FIELD WIRING.
 3. ALL ALARM CIRCUITS TO BE SUPERVISED TYPE WHERE APPLICABLE.
- KEY NOTES:
1. REFER TO GRINDER CONTROL PANEL SHOP DRAWINGS.


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VILLAGE OF BARONS		
LIFT STATION AND TRUNK MAIN UPGRADES ELECTRICAL PLC IO 2 OF 2		
DESIGNED	Z.Y.M., P.P.G.	JOB 1465-009-00
DRAWN	Z.Y.M.	SCALE
DATE	FEBRUARY 2024	DRAWING E2.3

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CONDUIT AND CABLE SCHEDULE										
COND. NO.	COND. TAG	DESCRIPTION	LOCATION	CONDUIT SIZE AND TYPE	TAG / FROM	TO	WIRE TYPE	NO. OF WIRES	WIRE SIZE	REMARKS
100	A	UTILITY POWER	LIFT STATION ELECTRICAL BUILDING	ACWU 90	UTILITY POLE TRANSFORMER	METER BASE	RW90	4	250 kcmil	208 VAC POWER
	B			ACWU 90	MAIN DISCONNECT		RW90	4	250 kcmil	208 VAC POWER
101	A	SERVICE GROUND	LIFT STATION ELECTRICAL BUILDING	1-21Ø RPVC	GROUND GRID	MAIN DISCONNECT	BARE	1	6 AWG	3-3M COPPER GROUND RODS
102	A	AUTOMATIC TRANSFER SWITCH	LIFT STATION ELECTRICAL BUILDING	1-53Ø RPVC	ATS 109	METER BASE	RW90	4	3/0 AWG	208 VAC POWER
	B			1-53Ø RPVC		400A SPLITTER	RW90	4	3/0 AWG	208 VAC POWER
	C			1-21Ø RPVC		CONTROL PANEL CP-1	RW90	3	14 AWG	24 VDC STATUS
103	A	GENERATOR	LIFT STATION ELECTRICAL BUILDING	1-78Ø RPVC	GEN 116	ATS 109	RW90	4	300kcmil	208VAC POWER
	B			1-35Ø RPVC		PANEL A	RW90	10	12 AWG	GENERATOR PANEL 120 VAC POWER
	C			1-21Ø RPVC		CONTROL PANEL CP-1	RW90	8	14 AWG	GENERATOR STATUS
104	A	PHASE LINE MONITOR	LIFT STATION ELECTRICAL BUILDING	1-53Ø RPVC	PLM 119 DISCONNECT	ATS 109	RW90	3	3/0 AWG	208 VAC POWER
	B			1-21Ø EMT		PLM 119	RW90	3	12 AWG	208 VAC POWER
	C			1-21Ø EMT	PLM 119	CONTROL PANEL CP-1	RW90	2	14 AWG	24 VDC STATUS
105	A	400A SPLITTER	LIFT STATION ELECTRICAL BUILDING	1-27Ø EMT	400A SPLITTER	SP 101 FVNR	RW90	3	4 AWG	208 VAC POWER
	B			1-27Ø EMT		SP 102 FVNR	RW90	3	4 AWG	208 VAC POWER
	C			1-35Ø EMT		PANEL A	RW90	4	2 AWG	120/208 VAC POWER
106	A	SURGE PROTECTION DEVICE	LIFT STATION ELECTRICAL BUILDING	1-21Ø EMT	SPD 118	CONTROL PANEL CP-1	RW90	2	14 AWG	24 VDC STATUS
108	A	SEWAGE PUMP SP-101	LIFT STATION	1-21Ø RA	SP 101 FVNR	LIFT STATION - SP 101 RECEPTACLE (VIA JUNCTION BOX)	RW90	3	4 AWG	208 VAC POWER
	B			1-21Ø EMT			RW90	4	14 AWG	LEAK CONTACT / OVER TEMP
	C					CONTROL PANEL CP-1	RW90	10	14 AWG	24 VDC STATUS AND CONTROL
109	A	SEWAGE PUMP SP-102	LIFT STATION	1-21Ø RA	SP 102 FVNR	LIFT STATION - SP 102 RECEPTACLE (VIA JUNCTION BOX)	RW90	3	4 AWG	208 VAC POWER
	B			1-21Ø EMT			RW90	4	14 AWG	LEAK CONTACT / OVER TEMP
	C					CONTROL PANEL CP-1	RW90	10	14 AWG	24 VDC STATUS AND CONTROL
111	A	DEXON BLOWER HEATER	LIFT STATION	1-21Ø EMT	PANEL A	BH 110 DISCONNECT	RW90	3	12 AWG	208 VAC POWER
	B			BH 110 (VIA JUNCTION BOX)	BH 110 DISCONNECT	RW90	3	12 AWG	120 VAC POWER	
	C				CONTROL PANEL CP-1	RW90	2	12 AWG	120 VAC POWER	
	D				CONTROL PANEL CP-1	RW90	10	14 AWG	STATUS BOARD WIRING	
112	A	LIFT STATION LIGHT	LIFT STATION	1-21Ø RPVC	PANEL A	LIFT STATION JUNCTION BOX	RW90	2	12 AWG	120 VAC POWER
	B			1-21Ø RA	WET WELL LIGHT SWITCH		RW90	2	12 AWG	120 VAC POWER
	C			1-21Ø RA	WET WELL LIGHT SWITCH	WET WELL LIGHT	RW90	2	12 AWG	120 VAC POWER
113	A	ULTRASONIC LEVEL TRANSMITTER	LIFT STATION	1-21Ø RA	LIT 112	LE 112	PRE-MANUFACTURED CABLE		ANALOG STATUS	
	B			CONTROL PANEL CP-1		BELDEN	1-PAIR	18 AWG	ANALOG STATUS	
	C					RW90	2	14 AWG	120 VAC POWER	
115	A	LEVEL SWITCH	LIFT STATION	1-21Ø RA	LSHH 114	CONTROL PANEL CP-1	PRE-MANUFACTURED CABLE		24 VDC STATUS	
116	A	FLOW METER	LIFT STATION	1-21Ø RA	FIT 111	FE 111	PRE-MANUFACTURED CABLE		24 VDC STATUS	
	B			CONTROL PANEL CP-1		CAT 5E	4-PAIR	24 AWG	ETHERNET/IP	
	C					RW90	2	14 AWG	120 VAC POWER	
118	A	UPS	LIFT STATION ELECTRICAL BUILDING	--	UPS 120	CONTROL PANEL CP-1	BELDEN	4	18 AWG	PRE-MANUFACTURED DB9 CABLE
119	A	INTRUSION SWITCH	LIFT STATION ELECTRICAL BUILDING	1-16Ø EMT	ZS 121	CONTROL PANEL CP-1	RW90	3	14 AWG	24 VDC POWER AND STATUS (EACH)
120	A	GRINDER GR-103	LIFT STATION	1-21Ø EMT	PANEL A	GR 103 DISCONNECT	RW90	3	12 AWG	208 VAC POWER
	B			GR 103 CONTROL PANEL	GR 103 DISCONNECT	RW90	3	12 AWG	208 VAC POWER	
	C				CONTROL PANEL CP-1	RW90	10	14 AWG	24 VDC STATUS AND CONTROL	
	D				GR 103 THERMOSTAT	RW90	2	14 AWG	GRINDER THERMOSTAT	
	E				LIFT STATION - GR 103 RECEPTACLE (VIA JUNCTION BOX)	RW90	3	12 AWG	208 VAC POWER	
121	A	COMMUNICATION CONNECTIONS	LIFT STATION ELECTRICAL BUILDING	--	CONTROL PANEL	RADIO ANTENNA	COAX	--	--	COAXIAL COMMUNICATION
	B					AUTODIALER ANTENNA	COAX	--	--	COAXIAL COMMUNICATION

- NOTES:
- CONDUIT AND CABLE SCHEDULE MAY NOT SHOW ALL CONDUITS AND/OR CABLES. REFER TO ALL DRAWINGS AND SPECIFICATIONS AND PROVIDE CONDUIT AND CABLE TO INSTALL A COMPLETE SYSTEM.
 - BONDING CONDUCTORS ARE GENERALLY NOT SHOWN. BOND EQUIPMENT AS PER CEC WHERE BONDING CONDUCTORS ARE NOT EXPRESSLY SHOWN.

-  KEY NOTES:
- SEPARATE METAL CONDUIT IS REQUIRED AS PER MANUFACTURER'S INSTRUCTIONS FOR MAXIMUM NOISE IMMUNITY. PROVIDE MINIMUM 300 SEPARATION AWAY FROM PARALLEL POWER CONDUITS.

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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
SCHEDULES 1 OF 2

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E3.1

	PANEL: A								
	LOCATION: BARONS LIFT STATION KIOSK								
	120/208V 3PH 4W 100A								
DESCRIPTION	LOAD (W)	TRIP AMPS	BRK. NO.	PHASE	BRK. NO.	TRIP AMPS	LOAD (W)	DESCRIPTION	
SURGE PROTECTION DEVICE	-	15A	1	A	2	3P 15A	4000	WET WELL BLOWER HEATER	
CONTROL PANEL CP-1, BH 110 CONTROL	500	15A	3	B	4				
ELECTRICAL BUILDING INTERIOR/EXTERIOR LIGHTS	500	15A	5	C	6				
LIFT STATION RECEPTACLE, LIGHT	1000	15A	7	A	8	20A	1500	GENERATOR ENGINE OIL HEATER	
ELECTRICAL BUILDING RECEPTACLES	1400	15A	9	B	10	15A	240	GENERATOR BATTERY CHARGER	
			11	C	12	20A	1500	GENERATOR JACKET WATER HEATER	
LIFT STATION GRINDER	6000	3P 40A	13	A	14	15A	500	GENERATOR LOUVER CONTROL	
			15	B	16				
			17	C	18				
			19	A	20				
SPARE		15A	21	B	22				
SPARE		15A	23	C	24				

LUMINAIRE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	WATTAGE	LUMEN	LAMP TYPE	COLOUR TEMP.	MOUNTING	REMARKS
A	INDUSTRIAL STRIP LIGHT	COLUMBIA	MPS4-40ML-CW-EDU	120V	32 W	4500 lm	LED	4000 K	CEILING	SWITCH CONTROL
B	EXTERIOR LIGHT	COLUMBIA	CWM2-40VWSM-FRFP-EDU	120V	15 W	1660 lm	LED	4000 K	WALL	PHOTOCELL CONTROL
C	HAZARDOUS RATED	KILLARK	VSL1630V2PN	120V	15W	1625 lm	LED	5000 K	WALL	APPROVED FOR USE IN ZONE 2 AREA

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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES
ELECTRICAL
SCHEDULES 2 OF 2

DESIGNED

Z.Y.M., P.P.G.

JOB

1465-009-00

DRAWN

Z.Y.M.

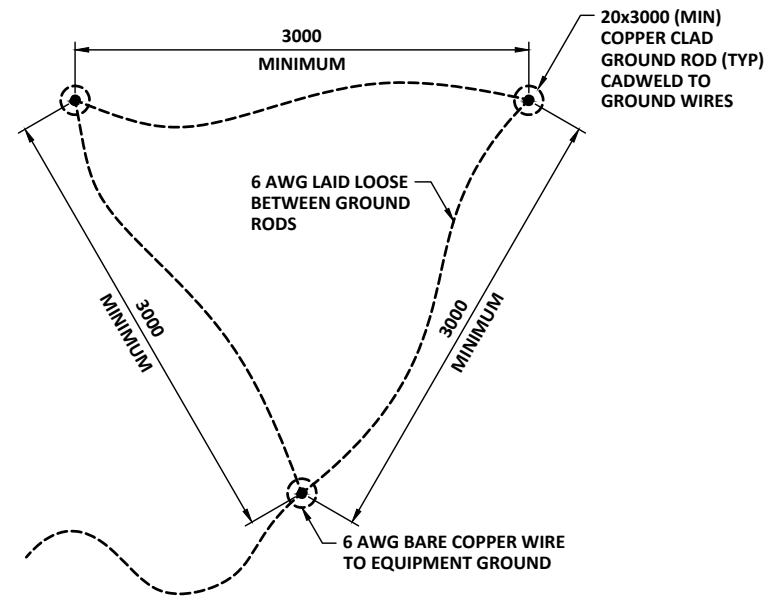
SCALE

DATE

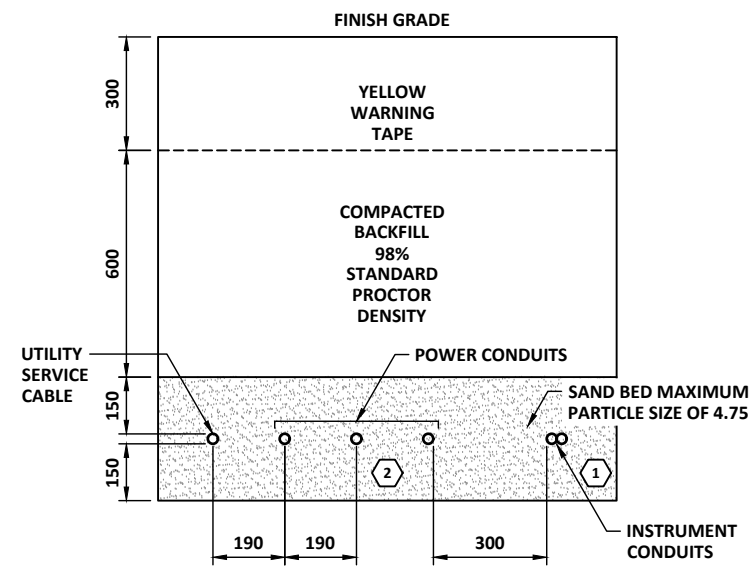
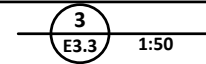
FEBRUARY 2024

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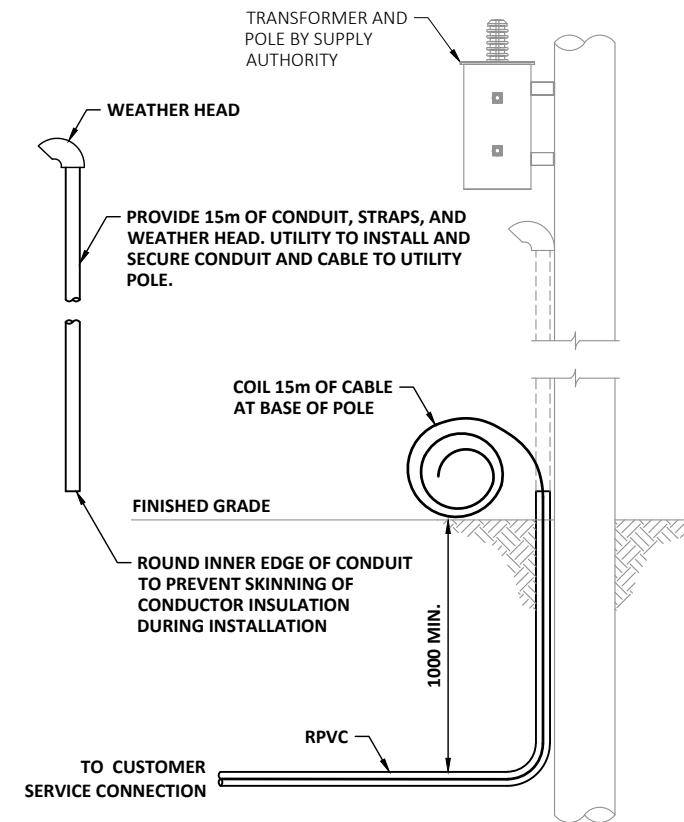
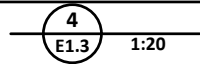
E3.2



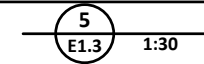
TYPICAL GROUND GRID



TYPICAL TRENCHING DETAIL

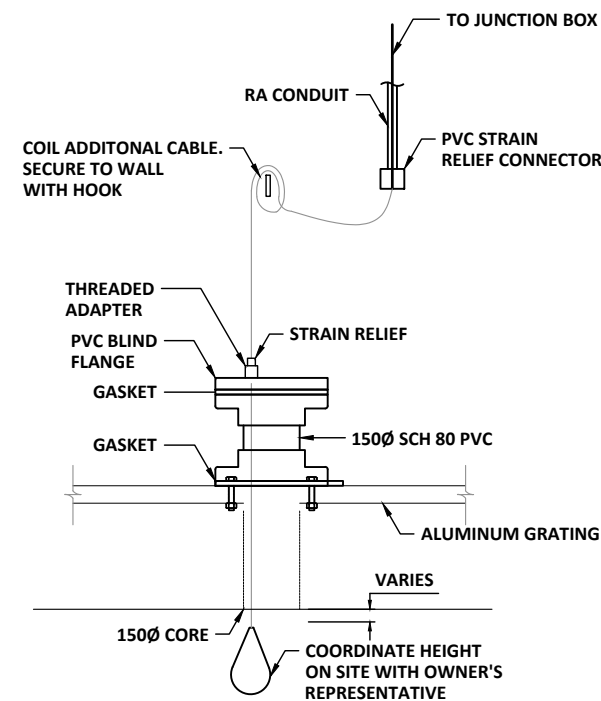


TYPICAL UTILITY POLE CONNECTION DETAIL

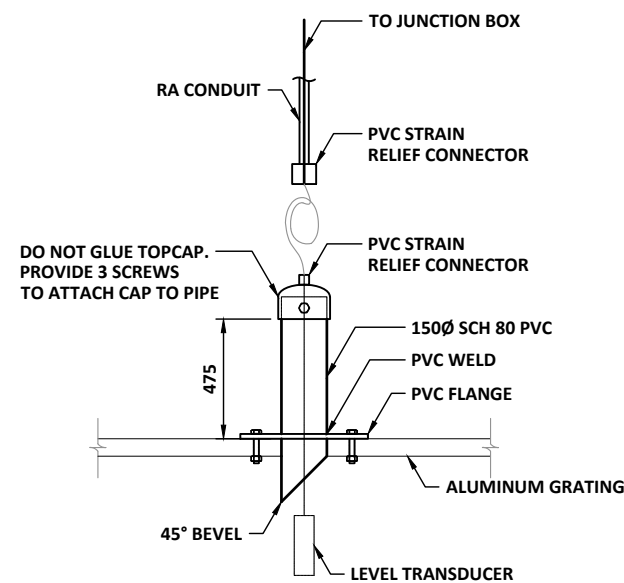
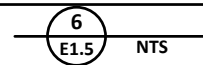


- KEY NOTES:**

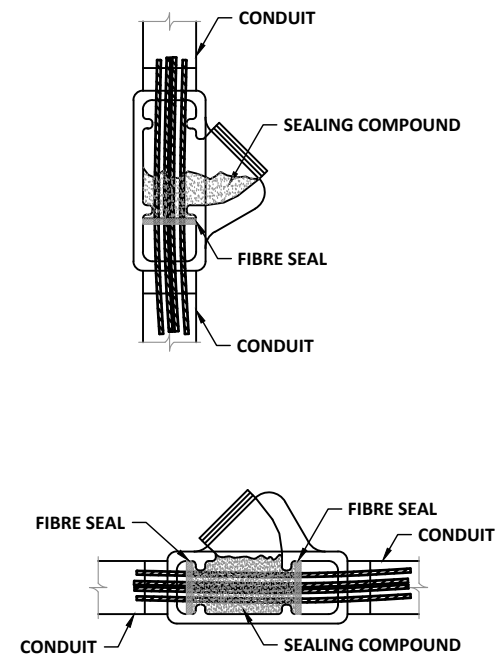
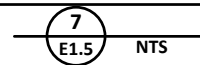
 - 1. FLOW METER AND LEVEL TRANSMITTER CONDUITS SHALL HAVE MINIMUM 300 SEPARATION FROM ALL OTHER CONDUITS AND CABLES.**
 - 2. REFER TO CONDUIT/CABLE SCHEDULE FOR CONDUCTOR DETAILS.**



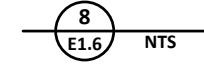
TYPICAL LEVEL SWITCH MOUNTING DETAIL



TYPICAL TRANSDUCER MOUNTING DETAIL



CONDUIT SEAL DETAIL (HAZARDOUS ZONES)



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VILLAGE OF BARONS

LIFT STATION AND TRUNK MAIN UPGRADES ELECTRICAL DETAILS

DESIGNED	Z.Y.M., P.P.G.	JOB	1465-009-00
DRAWN	Z.Y.M.	SCALE	
DATE	FEBRUARY 2024	DRAWING	E3.3