



AGNICO EAGLE

CONSTRUCTION SUMMARY REPORT FOR NEW TANKS AT RANKIN INLET FUEL FARM

65TKN11604 (9ML) & 65TKN11605 (4.5ML)

ITIVIA SITE, RANKIN INLET, NUNAVUT



February 6th, 2025

Revision: R0

Doc. N°: 6537-116-132-REP-004

Tt Project N°: 711-28920

AEM Project N°: 6537-E-132-003

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT		Tt Doc. N°: 6537-116-132-REP-004	
			Tt Project N°: 711-28920	
	NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)		Area: 116	
			Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004			Date: 2025-02-06	Revision: R0
Client Project N°: 6537-E-132-003				

REVISION FOLLOW-UP

REV.	DATE	DESCRIPTION	DISCIPLINE	PREPARED BY
R0	06-02-2025	Issue for Use	CIVIL	Solène Moreau, P.Eng. NAPEG #L5021
			MECHANICAL	Alaeddine Sediri, P.Eng. NAPEG #L5719

SIGNATURES

CIVIL	
Prepared by: Solène Moreau, P. Eng. Tetra Tech, Civil Engineer NAPEG # L5021	 

MECHANICAL	
Prepared by: Alaeddine Sediri, P. Eng. Tetra Tech, Mechanical Engineer NAPEG # L5719	 

PERMIT TO PRACTICE
TETRA TECH QE INC.

Signature 

Date 

PERMIT NUMBER: P 1029
NT/NU Association of Professional
Engineers and Geoscientists



Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

PRODUCTION TEAM

CLIENT – AGNICO EAGLE MINES LIMITED	
Project Lead	Joël Bournival, Eng.
Civil Construction Lead	Jennifer Pyliuk, P. Eng.
Mechanical Lead	Alex Gelin, P. Eng.
Electrical and Instrumentation Lead	Sébastien Perron

ENGINEERING FIRM – TETRA TECH	
Project Manager and Civil Engineer	Solène Moreau, P. Eng.
Mechanical/ Piping Engineer	Alaeddine Sediri, P. Eng.
Process Engineer	Sara ElKabriti, P. Eng.

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

TABLE OF CONTENT

1	INTRODUCTION	1
1.1	PROJECT OVERVIEW	1
1.2	PURPOSE OF THE REPORT	1
2	CONSTRUCTION SUMMARY	1
2.1	Works description	1
2.2	Construction schedule	2
2.3	CONSTRUCTION DRAWINGS	2
2.4	FINAL AS BUILT DRAWINGS	2
3	CONSTRUCTION MONITORING AND SURVEYS	2
3.1	CONSTRUCTION TEAM	2
3.2	CONSTRUCTION MONITORING DOCUMENTATION	3
4	CIVIL WORKS: DESIGN COMPLIANCE AND FIELD CHANGE TRACKING EXPLANATIONS	4
4.1	CODE AND STANDARD COMPLIANCE	4
4.2	TANK FOUNDATION PADS – AS BUILT	4
4.3	SECONDARY CONTAINMENT CAPACITY – AS BUILT	5
4.4	DISTANCE RESTRICTIONS – AS BUILT	6
4.5	EROSION AND SEDIMENT RELEASE CONTROL	7
4.6	CONSTRUCTION EQUIPMENT	7
4.7	CONSTRUCTION MATERIAL SPECIFICATIONS AND PLACEMENT– AS BUILT	7
4.8	FIELD TRACK CHANGE AND EXPLANATIONS	7
5	TANKS AND PIPING: DESIGN COMPLIANCE AND FIELD CHANGE TRACKING EXPLANATIONS	8
5.1	CODE AND STANDARD COMPLIANCE	8
5.2	TANKS - AS BUILT AND INSPECTION	8
5.3	PIPING SYSTEM - AS BUILT AND INSPECTION	8
5.4	FIELD TRACK CHANGE AND EXPLANATIONS	9
6	LIMITATIONS OF REPORT	10

TABLES

Table 1: Construction Milestone Dates	2
Table 2: Tank foundation pads (As built)	4
Table 3: Fuel Farm secondary containment capacity (As built)	5
Table 4: Distance clearances (As built)	6
Table 5: Characteristics of the tanks (As built)	8
Table 6: Deviations from original design	9

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

APPENDICES

APPENDIX A – CONSTRUCTION DRAWINGS

APPENDIX B – AS BUILT DRAWINGS

APPENDIX C – CONSTRUCTION MONITORING DATA (CIVIL)

APPENDIX D – CONSTRUCTION MONITORING DATA (MPEI)

ACRONYMS AND ABBREVIATIONS

Acronyms/Abbreviations	Definition
API	American Petroleum Institute
AWSL	Above Sea Water Level
CCME	Canadian Council of Ministers of the Environment
CEC	Canadian Electrical Code
CSA	Canadian Standards Association
HDPE	High Density Polyethylene
ML	Millions of Liters
NPAG	Non-Potential Acid Generating
NBCC	National Building Code of Canada
NFCC	National Fire Code of Canada
NFPA	National Fire Protection Association
NWB	Nunavut Water Board
R-125-95 NWT	Consolidated Mine Health and Safety Act

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

1 INTRODUCTION

1.1 PROJECT OVERVIEW

Agnico Eagle Mines Ltd (Agnico Eagle) erected two (2) new fuel storage tanks with capacities of 9ML and 4.5ML in the existing fuel storage tank farm at its Itivia site located in Rankin Inlet, Nunavut. Therefore, the tank farm now encloses four (4) tanks with capacities of 20 ML, 13.5ML, 9ML and 4.5ML.

The project was multidisciplinary and involved earthworks, mechanical, instrumentation and electrical works.

Tetra Tech previously prepared the design report (Ref :6537-116-132-REP-003) for the two new tanks and the report was issued to Nunavut Water Board (NWB) by Agnico Eagle in January 2024.

The construction was completed between March 28th and November 20th, 2024.

1.2 PURPOSE OF THE REPORT

This report intends to present the construction summary related to the project.

Agnico Eagle requested Tetra Tech to complete on their behalf this Construction Summary report. It should be noted that Tetra Tech was not involved, nor was on site, during the construction activities. Accordingly, all the construction, quality assurance, inspections and commissioning activities associated with the aforementioned works were managed by Agnico Eagle and their subcontractors. As such, Tetra Tech has presented the construction data as supplied by Agnico Eagle and therefore Tetra Tech cannot accept any responsibility for the accuracy of any of the data supplied.

As specified under NWB Water Licence 2AM-MEL1631, this report includes the as-built drawings, the as-built survey, some photographs, the construction monitoring report and the explanation of any field decision or deviation from the “Issued for Construction” (IFC) drawings.

2 CONSTRUCTION SUMMARY

2.1 WORKS DESCRIPTION

The following items have been constructed:

- Construction of the foundation pad for the two new tanks
- Fabrication and installation of two (2) new field erected tanks
- Fabrication and installation of the piping from the new tanks to connect existing piping (loading/unloading/venting)
- Fabrication and installation of pipe supports
- Installation of electricity and instrumentation equipment for the new tanks
- Testing, calibration, and inspection of the new equipment

Refer to as-built drawing 65-116-210-200_R4 provided in Appendix B for the final General Arrangement of the fuel farm.

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

2.2 CONSTRUCTION SCHEDULE

Construction was completed according to the Milestone Dates shown in Table 1:

Table 1: Construction Milestone Dates

Item	Date of Completion
Site and material preparation	March 28 th to May 1 st , 2024
9ML tank foundation pad	May 7 th to June 15 th , 2024
4.5ML tank foundation pad	May 16 th to July 6 th , 2024
Tanks erection	June 12 th to August 27 th , 2024
Pipeline installation	May 15 th to September 23 rd , 2024
Electrical installation	June 3 rd to June 10 th , 2024
System operational for tanks	September 23 rd , 2024
Testing and commissioning	November 15 th to 20 th , 2024

2.3 CONSTRUCTION DRAWINGS

Final design and construction drawings stamped and signed by a Professional Engineer are presented in Appendix A.

2.4 FINAL AS BUILT DRAWINGS

As-built drawings were prepared based on the available information provided by Agnico Eagle and are presented in Appendix B.

3 CONSTRUCTION MONITORING AND SURVEYS

3.1 CONSTRUCTION TEAM

The construction team was as follows:

- Construction management: Agnico Eagle Construction
- Quality Assurance and Quality Control (QA/QC): Agnico Eagle Construction
- Civil Contractor: Kivalliq contractors group Ltd
- Tank erection contractor: Inukshuk Construction Ltd
- Piping contractor: Nuqsana Promec Mining Services Inc
- Piping welding inspection: Englobe Corp.
- Survey: Hamel Arpentage Ltd

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

3.2 CONSTRUCTION MONITORING DOCUMENTATION

The following documents were received and used as reference for validating the quality of completed works:

- As built survey for civil works
- As built survey for piping
- Civil works QA/QC reports and photographs
- Tanks welds Magnetic particle and ultrasonic inspection reports for tanks weldings
- Piping verification, cleaning and pressure test report
- Flange tightening reports
- Piping Welds visual ad magnetic particle inspection report
- Tank and Piping Photographs
- Final turnover package for Tank #65TNK1104
- Final turnover package for Tank #65TNK1105
- Pressure Vacuum Relief Vent (PV-Vent) Test Certificates

The above listed documents are presented in Appendices C and D.

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

4 CIVIL WORKS: DESIGN COMPLIANCE AND FIELD CHANGE TRACKING EXPLANATIONS

4.1 CODE AND STANDARD COMPLIANCE

The as-built secondary containment for the aboveground storage is compliant with the following codes:

- National Fire Code of Canada (NFCC)
- Canadian Council of Ministers of the Environment (CCME)

Refer to sections below for details.

4.2 TANK FOUNDATION PADS – AS BUILT

The two new tanks were constructed entirely on a well graded, crushed gravel materials foundation pad, placed over the compacted gravel surfacing materials of the existing fuel farm floor. No excavation works or HDPE liner installation works were required since the tank pads were built on existing HDPE lined tank farm floor.

A thin layer (50mm thick) of compacted bedding sand has been placed over the crushed gravel base to act as a cushion between the gravel and the metallic tank base.

Table 2 provides as built values for tank foundation pads.

Table 2: Tank foundation pads (As built)

Design parameters of the tank foundation pad	As built values for Tank 65TKN11604 (9ML)	As built values for Tank 65TKN11605 (4.5ML)
Tank diameter	29 m	21 m
Foundation pad Geometry	Circular Pad Diameter = 31.4 m	Circular Pad Diameter = 23.4 m
Shoulder width	1.2 m	1.2 m
Height of the tank foundation pad above surrounding floor	Minimum 300 mm	Minimum 300 mm
Foundation pad slope from tank center	1V:120H	1V:120H
Slope on embankment	1V:2H min	1V:2H min
Foundation pad elevation at the center of the tank	8.55 m (AWSL)	8.38 m (AWSL)

Compliance with Design and Code: YES

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

4.3 SECONDARY CONTAINMENT CAPACITY – AS BUILT

- Code requirements:

As per the NFCC (2015), Art. 4.3.7.3, the required capacity for the secondary containment of a fuel farm with more than one storage tank shall have a volumetric capacity of not less than the sum of:

- The capacity of the largest storage tank located in the contained space, and
- 10% of the greater of:
 - The capacity specified in Clause (a), or
 - The aggregate capacity of all other storage tanks located in the contained space

- Calculation basis:

- The containment volume was calculated with AutoCAD CIVIL 3D software. The calculation does not include the volume inside the tanks themselves.
- The lowest point of the liner that sits atop the dike in the global containment area is at an elevation 9.75 m.

Note: Earthworks to modify the dikes/berms surrounding the fuel storage tanks were completed in June 2024. Details regarding this work are provided in the Construction Summary Report 6537-680-132-REP-002, prepared by Tetra Tech, and submitted to the Nunavut Water Board (NWB) in September 2024.

- Calculation results:

Based on the above mentioned, the secondary containment capacity requirements and the available capacity (As built) for the fuel farm are summarized in Table 3.

Table 3: Fuel Farm secondary containment capacity (As built)

Enclosed Tanks in the proposed Rankin Inlet Fuel Farm	TANK 65TKN11601	TANK 65TKN11602	TANK 65TKN11604	TANK 65TKN11605
Maximum Volume in the tank	20,000 m ³	13,500 m ³	9,000 m ³	4,500 m ³
Required Containment Capacity	22,700 m ³			
Available Containment Capacity at elevation 9.75 m	25,213 m ³			
Is Available containment capacity > Required containment capacity	YES			

Compliance with Design and Code: YES

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

4.4 DISTANCE RESTRICTIONS – AS BUILT

As per NFCC and CCME codes, some distance clearances shall be respected.

The as-built layout of the tanks complies with those Codes requirements.

Table 4 below summarizes the distance clearance with the as-built values.

Table 4: Distance clearances (As built)

Item	Required	AS-BUILT VALUES	COMPLIANCE WITH CODE
Distance Between 65TKN11604 and 65TKN601	18 m $\frac{1}{4} (D1 + D2) = 18\text{m}$ Where D1=29m; D2=43m	19.35 m	Yes
Distance Between 65TKN11604 and 65TKN605	12.5 m $\frac{1}{4} (D1 + D2) = 12.5\text{m}$ Where D1=29m; D2=21m	44.72 m	Yes
Distance Between 65TKN11605 and 65TKN601	16m $\frac{1}{4} (D1 + D2) = 16\text{m}$ Where D1=21m; D2=43m	55.25 m	Yes
Distance Between 65TKN11605 and 65TKN602	14 m $\frac{1}{4} (D1 + D2) = 14\text{m}$ Where D1=21m; D2=35.10m	24.96 m	Yes
Distance Between Tank wall and Toe of the Dike	1.50 m Min.	4.51 m Min.	Yes
Distance Between Tank and CL of the Dike	7 m $\frac{1}{2} (\text{Height of Tank}) = 7 \text{ m}$ Where H=14 m	9.96 m Min.	Yes
Distance Between Property Limit (that can be built upon) and Tank	15 m	22.84 m	Yes
Distance Between Property Limit and Exterior Toe of the Dike	3.0 m Min.	10.91 m	Yes
Distance Between Tank and Public Roads	17 m	>20m	Yes

Compliance with Design and Code: YES

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

4.5 EROSION AND SEDIMENT RELEASE CONTROL

No erosion and sediment control measure were required during the construction due to the nature of the work.

4.6 CONSTRUCTION EQUIPMENT

The list of equipment/machine is listed in the Construction QA/QC report provided in Appendix C.

The bearing pressures of all equipment operating within the containment were calculated and verified prior to approval for use.

4.7 CONSTRUCTION MATERIAL SPECIFICATIONS AND PLACEMENT– AS BUILT

The following material was used for the backfill:

- Granular sand (screened from the 15km Esker)
- Crushed aggregate (Granular Fill 0-30mm) (sourced from the Tiriganiaq01 open pit)

Granular materials were placed according to Technical Specifications and compaction efforts consisted of a minimum number of passes with a Vibratory plate Bomag BPR 50/55 D. Suitability for placement and compaction efforts were assessed visually and approved by AEM.

Particle size analysis was not conducted. However, all the material was visually approved for use by AEM.

All the material used is NPAG (Non-Potential Acid Generating).

Compliance with Design and Code: YES

4.8 FIELD TRACK CHANGE AND EXPLANATIONS

No variations/changes from the original design have been identified.

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

5 TANKS AND PIPING: DESIGN COMPLIANCE AND FIELD CHANGE TRACKING EXPLANATIONS

5.1 CODE AND STANDARD COMPLIANCE

The system complies with the latest editions of the Codes and Standards relating to this project (Federal, Territorial, Municipal, NBCC, NFCC, CCME, CEC, CSA, NFPA, and API) as well as the directives of the authorities having jurisdiction over this project. Specific codes and standards as: R-125-95 NWT and Nunavut Mine Health and Safety Regulations (Mine Health and Safety Act) and RRNWT 1990, c F-12 Fire Prevention Regulations shall apply.

Additionally, the fabrication, erection and inspection of the field erected vertical fuel storage tanks conform to API Std. 650 Thirteenth edition- March 2020, Welded Tanks for Oil Storage, including Errata 1 (2021), and applicable Appendices.

5.2 TANKS - AS BUILT AND INSPECTION

The two new tanks are field erected storage tanks, used for diesel storage. Based on the turnover packages of the tanks (As built), the tanks have the characteristics presented in Table 5.

Table 5: Characteristics of the tanks (As built)

Tank Identification Number	65TNK11604	65TNK11605
Product Stored	Diesel	Diesel
Maximum Tank Capacity	9,000 m ³	4,500 m ³
Diameter	29 m	21 m
Height	14 m	14 m

The tanks have been inspected by Inukshuk, Agnico Eagle and Englobe Corp representatives, who declare that the fabrication, erection, inspection, testing, welding, and labelling comply with both the regulatory code (API 650) and the design documents.

5.3 PIPING SYSTEM - AS BUILT AND INSPECTION

As built survey and pictures of the piping are presented in Appendix D.

A qualified inspection team has inspected and tested the piping as per Agnico Eagle procedures, regulations and codes. The new distribution piping has been declared conform to Code. Refer to Appendix D for inspection report.

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

5.4 FIELD TRACK CHANGE AND EXPLANATIONS

This section documents exposes the variations/changes from the original design which were approved by the designer and/or the field engineer on site.

The changes are listed in Table 6 and do not affect the conformity of the design with applicable Codes and Standards.

Refer to As built drawings provided in Appendix B to see details of changes.

Table 6: Deviations from original design

	DEVIATIONS DESCRIPTION	REASON	CONFORMITY TO CODE
DEV#1	Above-ground pipe routing has been modified in the vicinity of 65TKN11604 after approval of Tetra Tech Engineer.	Following the installation of the tank 65TKN11604, an alignment deviation of approximately 11.25 deg was observed between design and as built tank's manholes position. To address this offset while preserving the integrity of the tank, the pipe routing has been redesigned accordingly.	YES
DEV#2	Above-ground pipe routing has been modified in the vicinity of Tie-Point#3, after approval by AEM field Engineer.	After field verification, the position of the Tie-Point#3 was different from the one on the original design. The piping routing has been modified accordingly.	YES
DEV#3	Additional drain valves (x7) at low points of the piping have been installed on the piping, after approval by AEM field Engineer.	To ease maintenance.	YES

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

6 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Agnico Eagle Mines Ltd. and their agents. Tetra Tech does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Agnico Eagle Mines Ltd., or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Tetra Tech accepts no responsibility for losses, claims, expenses or damages, if any, suffered by a third party as a result of any decisions made or actions based on this report. Use of this report is subject to the terms and conditions stated in Tetra Tech's Services Agreement.

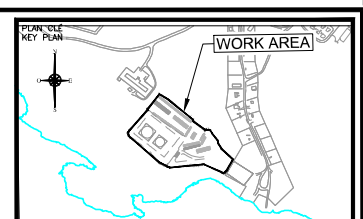
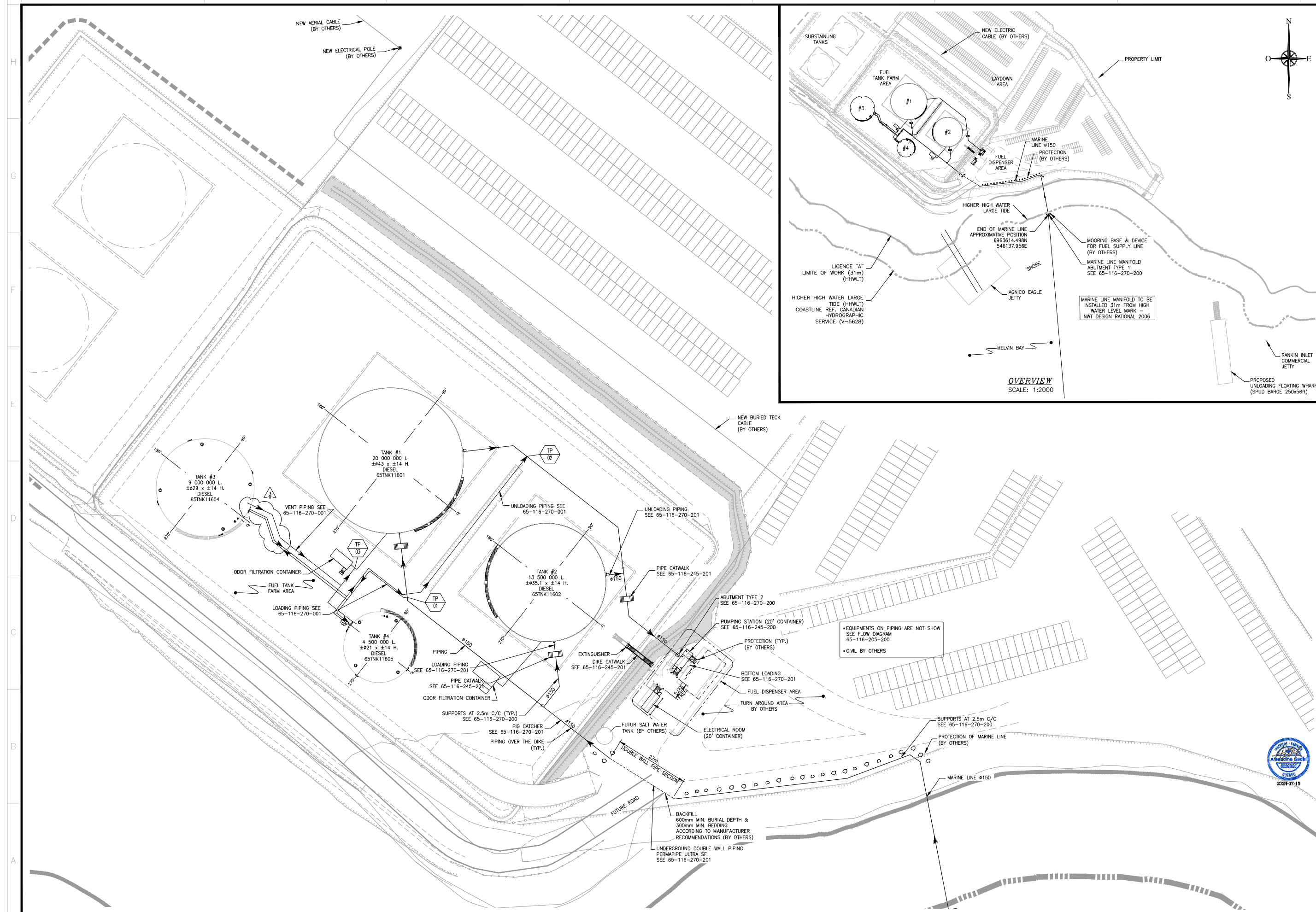
While it is believed that the information contained herein is reliable under the conditions and subject to the limitations set forth in the report, this report is based on information not within the control of Tetra Tech, nor has said information been verified by Tetra Tech, and Tetra Tech therefore cannot and does not guarantee its sufficiency and accuracy. The comments in the report reflect Tetra Tech's best judgment in light of the information available to it at the time of preparation.

Use this Document acknowledges acceptance of the foregoing conditions.

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
		Work Package: NA	
Client Doc. N°: 6537-116-132-REP-004		Date: 2025-02-06	
Client Project N°: 6537-E-132-003		Revision: R0	

APPENDIX A – CONSTRUCTION DRAWINGS

Number	Title	Rev.
65-116-210-200	AGNICO-EAGLE - MELIADINE DIVISION 116 - FUEL TANK FARM 210 - GENERAL ARRANGEMENT FUEL DISTRIBUTION PLAN VIEW	R3
65-116-270-001	AGNICO-EAGLE - MELIADINE DIVISION 116 - FUEL TANK FARM 270 - PIPING FUEL DISTRIBUTION PLAN VIEW	R2
65-116-230-001	AGNICO EAGLE - MELIADINE DIVISION 116- FUEL FARM 230- GENERAL EARTH WORKS PLAN VIEW RANKIN INLET - 65TNK11604 & 65TNK11605 TANKS FOUNDATIONS	R0
65-116-230-002	AGNICO EAGLE - MELIADINE DIVISION 116- FUEL FARM 230- GENERAL EARTH WORKS DETAILS AND SECTIONS RANKIN INLET - 65TNK11604 & 65TNK11605 TANKS FOUNDATIONS	R0
65-116-205-200	AGNICO EAGLE - MELIADINE DIVISION 116 - FUEL TANK FARM 205 - PID RANKIN INLET FUEL DISTRIBUTION AND STORAGE FLOW DIAGRAM	R5
65-116-205-201	AGNICO EAGLE - MELIADINE DIVISION 116 - FUEL FARM 205 - PID RANKIN INLET FUEL STORAGE 65TNK11604 (9ML) & 65TNK11605 (4,5ML)	R1

**TETRA TECH**

7275 rue Sherbrooke, bureau 600 | Montréal, H1N1E9 | tetrattech.com

Ref. 28920E

NOTES GÉNÉRALES / GENERAL NOTES

1. TANK DIMENSIONS ADJUSTED ACCORDING TO INFORMATION PROVIDED BY CONTRACTOR

**POUR CONSTRUCTION
FOR CONSTRUCTION**

 **ARROW BACK**

DATE : 2024-07-1

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AJICO EAGLE LTD. ET DOIT ÊTRE RETOURNÉE SUR DEMANDE, SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE TRANSMISSION DE COPIES À AUTRUI ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTÉE SONT INTERDITES. © AJICO EAGLE LTD.

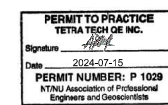
THE INFORMATION HERE ON IS THE PROPERTY OF AJICO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST, WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL, TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

[illegible]

3	2024-07-10	SUPPORT AND LINE MODIFIED	W.K.L.	A.S.	
2	2023-11-15	ISSUED FOR CONSTRUCTION	E.T.	P.M.L.	
1	2023-10-24	ISSUED FOR COMMENTS	E.T.	P.M.L.	
0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	D.T.	
REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS



TITRE / TITLE

AGNICO EAGLE - MELIADINE DIVISION

116 - FUEL TANK FARM

210 - GENERAL ARRANGEMENT

FUEL DISTRIBUTION

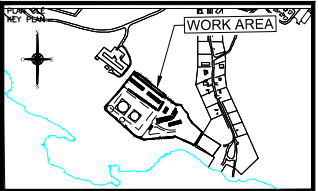
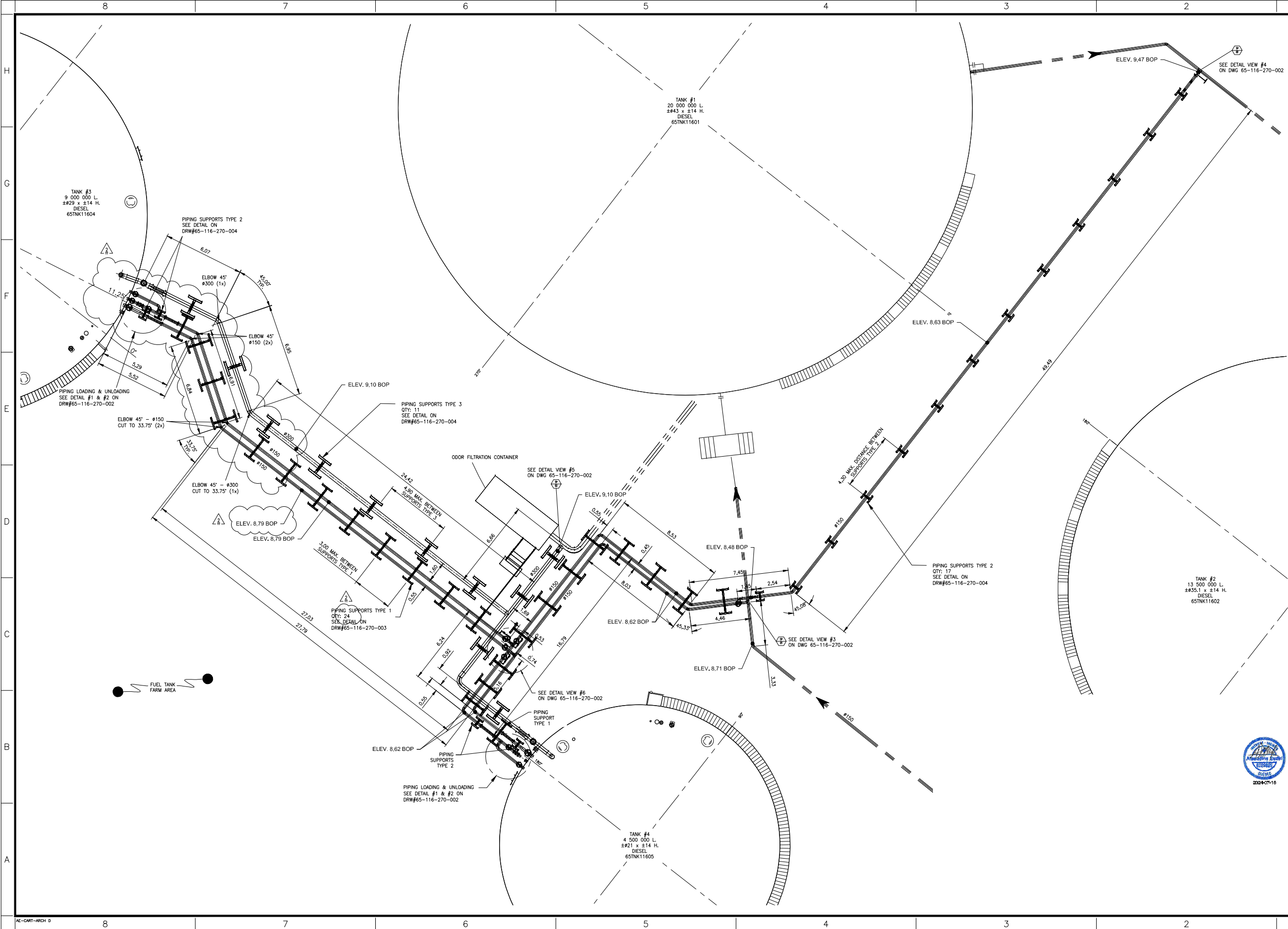
PLAN VIEWS

DESSINÉ PAR DRAWN BY	G. CORNUT	DATE 2017-05-29
VÉRIFIÉ PAR CHECKED BY	J. MORLIÈRE, tech.	2017-05-29
APPROUVÉ PAR APPROVED BY	D. THIBODEAU, P. Eng.	2017-05-29

ÉCHELLE SCALE	INDICATED	DATE	2017-05-29
------------------	-----------	------	------------

NO. DESSIN	
DRAWING NO.	65-116-210-200

NO. PROJ. PROJECT NO.	REVISION	FEUILLE / SHT
6515	3	1 / 1



NOTES GÉNÉRALES / GENERAL NOTES

1. TANK DIMENSIONS ADJUSTED ACCORDING TO INFORMATION PROVIDED BY CONTRACTOR
2. THE MAXIMUM DISTANCE BETWEEN SUPPORTS FOR #150MM (6") PIPE IS 4.3 METERS. THE MAXIMUM DISTANCE BETWEEN SUPPORTS FOR #300MM (12") PIPE IS 4.9 METERS.
3. ALL DIMENSIONS ARE FROM CENTER LINES OF PIPING.
4. FOR LINES NUMBERS AND SMALL BORE PIPING (<2" DIA) REFER TO P&ID #65-116-205-201.



CONTRACTOR IS ADVISED THAT THE DIMENSIONS OF THE TANKS AND THE DISTANCE BETWEEN THE TANKS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DIMENSIONS OF THE TANKS AND THE DISTANCE BETWEEN THE TANKS BEFORE CONSTRUCTION.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS	
TITRE / TITLE	# DWG
GENERAL ARRANGEMENT - FUEL DISTRIBUTION	65-116-210-200

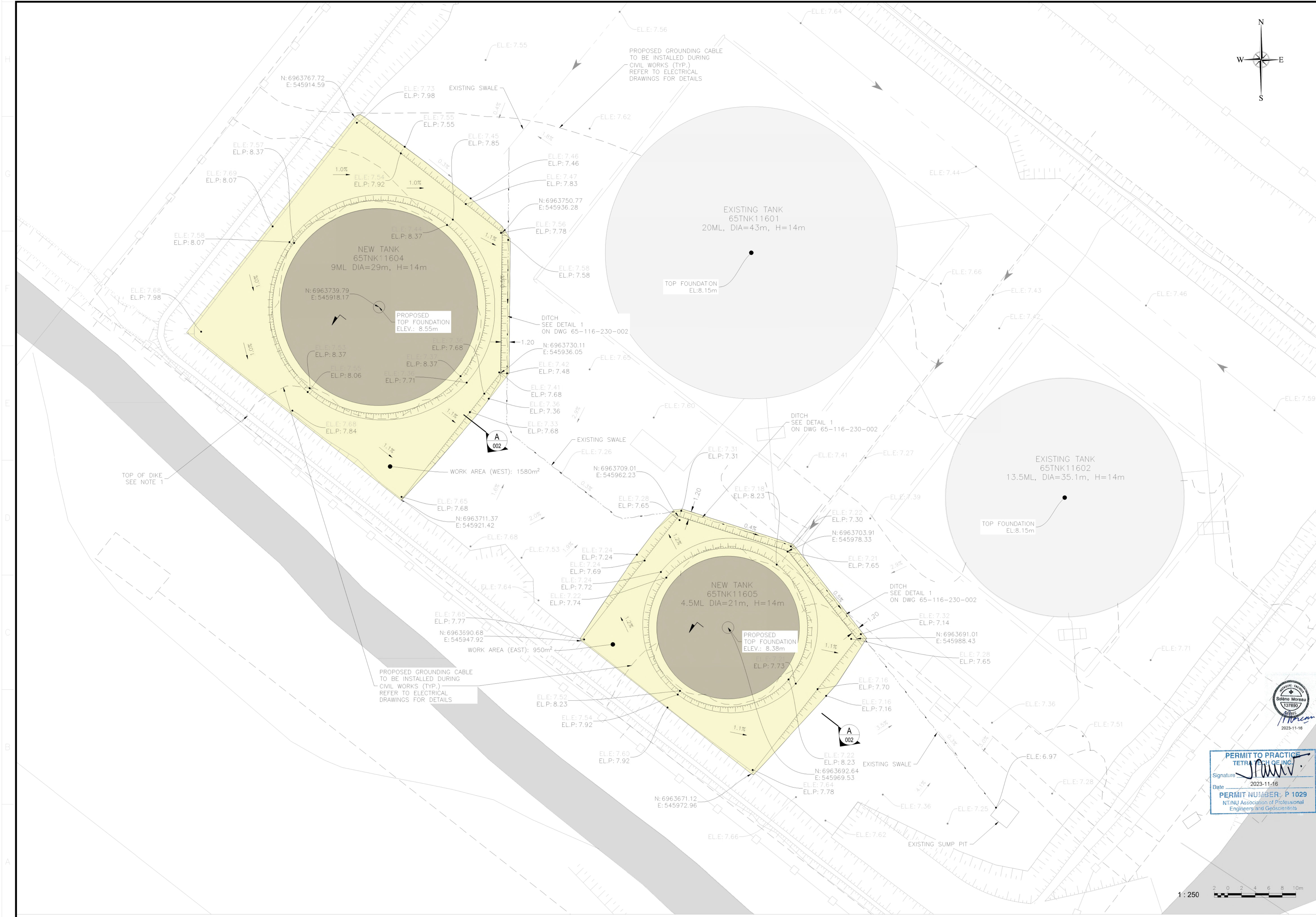
AGNICO EAGLE				
2	2024-07-10	SUPPORT AND LINE MODIFIED	W.K.L.	A.S.
1	2024-04-29	SUPPORT AND LINE MODIFIED	J.B.	N.L.
0	2023-11-23	ISSUED FOR CONSTRUCTION	E.T.	P.M.L.
A	2023-10-24	ISSUED FOR COMMENTS	E.T.	P.M.L.
REV.	DATE	DESCRIPTION	PREP'D BY	APP. CLIENT

REVISONS	

TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM
270 - PIPING
FUEL DISTRIBUTION
PLAN VIEWS

DESSINÉ PAR DRAWN BY	E. TURGY	DATE 2023-10-12
VERIFIÉ PAR CHECKED BY	PAUL-MARIE LOEMBE, P. Eng.	2023-10-12
APPROUVÉ PAR APPROVED BY	PAUL-MARIE LOEMBE, P. Eng.	2023-10-12

ECHELLE SCALE		DATE	
METER		2023-10-12	
NO. DESSIN DRAWING NO.			
65-116-270-001			
NO. PROJET PROJECT NO.		REVISION	FEUILLE / SHT
6537		2	1 / 1



NOTES GÉNÉRALES / GENERAL NOTES

1. IN ORDER TO HAVE THE REQUIRED SECONDARY CONTAINMENT CAPACITY IN THE TANK FARM WITH THE NEW TANKS, THE SURROUNDING DIKS SHALL BE RISED BEFORE HAVING TANKS IN SERVICE. REFER TO DESIGN REPORT 6537-680-132-REP-001 AND DRAWING 65-680-230-002.



L'INFORMATION CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. ET DOIT ÊTRE RETENUE PAR VOUS. SANS AUTORISATION ÉCRITE, VOUS NE POUVEZ PAS REPRODUIRE, COPIER, DISTRIBUER, COMMUNIQUER, RENDRE ACCESSIBLE, NI UTILISER D'AUTRE MANNIÈRE QUE CELLE PERMISE PAR LA LOI. TOUTES LES DROITS RÉSERVÉS. ALL INFORMATION HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE RETAINED BY YOU. WITHOUT WRITTEN PERMISSION, YOU MAY NOT REPRODUCE, COPY, DISTRIBUTE, COMMUNICATE, MAKE AVAILABLE, OR OTHERWISE USE THIS INFORMATION IN ANY MANNER OTHER THAN THAT FOR WHICH IT IS ISSUED AND PROVIDED. ALL RIGHTS RESERVED.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	#	DWG



REV	DATE	DESCRIPTION	PAR/BY	APP	CLIENT

RÉVISIONS

		
TITRE / TITLE		
AGNICO EAGLE – MELIADINE DIVISION 116–FUEL FARM 230–GENERAL EARTH WORKS PLAN VIEW RANKIN INLET – 65TNK11604 & 65TNK11605 TANKS FOUNDATIONS		

DESIGNÉ PAR DRAWN BY		EDUARDO RODRIGUEZ	DATE 2023-07-13	
VÉRIFIÉ PAR CHECKED BY		SOILENE MOREAU	2023-07-13	
APPROUVÉ PAR APPROVED BY		JOSEF ALARIE	2023-07-13	
ÉCHELLE SCALE		1:500	DATE 2023-07-13	
NO. DESSIN DRAWING NO.		65-116-230-001		
NO. PROJET PROJECT NO.		6537	REVISION	FEUILLE / SHEET
			0	1 / 1

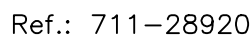


TABLE 1: REQUIRED MATERIAL QUANTITIES FOR CONSTRUCTION

WORK AREA

RANKIN INLET AIRPORT

MELVIN BAY



NOTES GÉNÉRALES / GENERAL NOTES



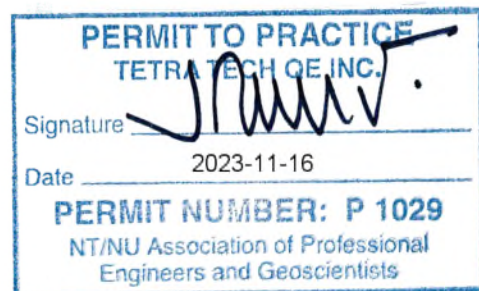
THE INFORMATION IS CONTAINED AS THE PROPERTY OF ANIMO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMISSION, TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED.
 © ANIMO EAGLE LTD.



AGNICO EAGLE

0	2023-11-15	ISSUED FOR CONSTRUCTION	E.R.	S.M.		
REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT	

REVISIONS



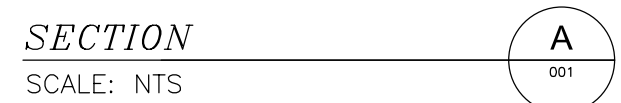
TITLE / TITLE

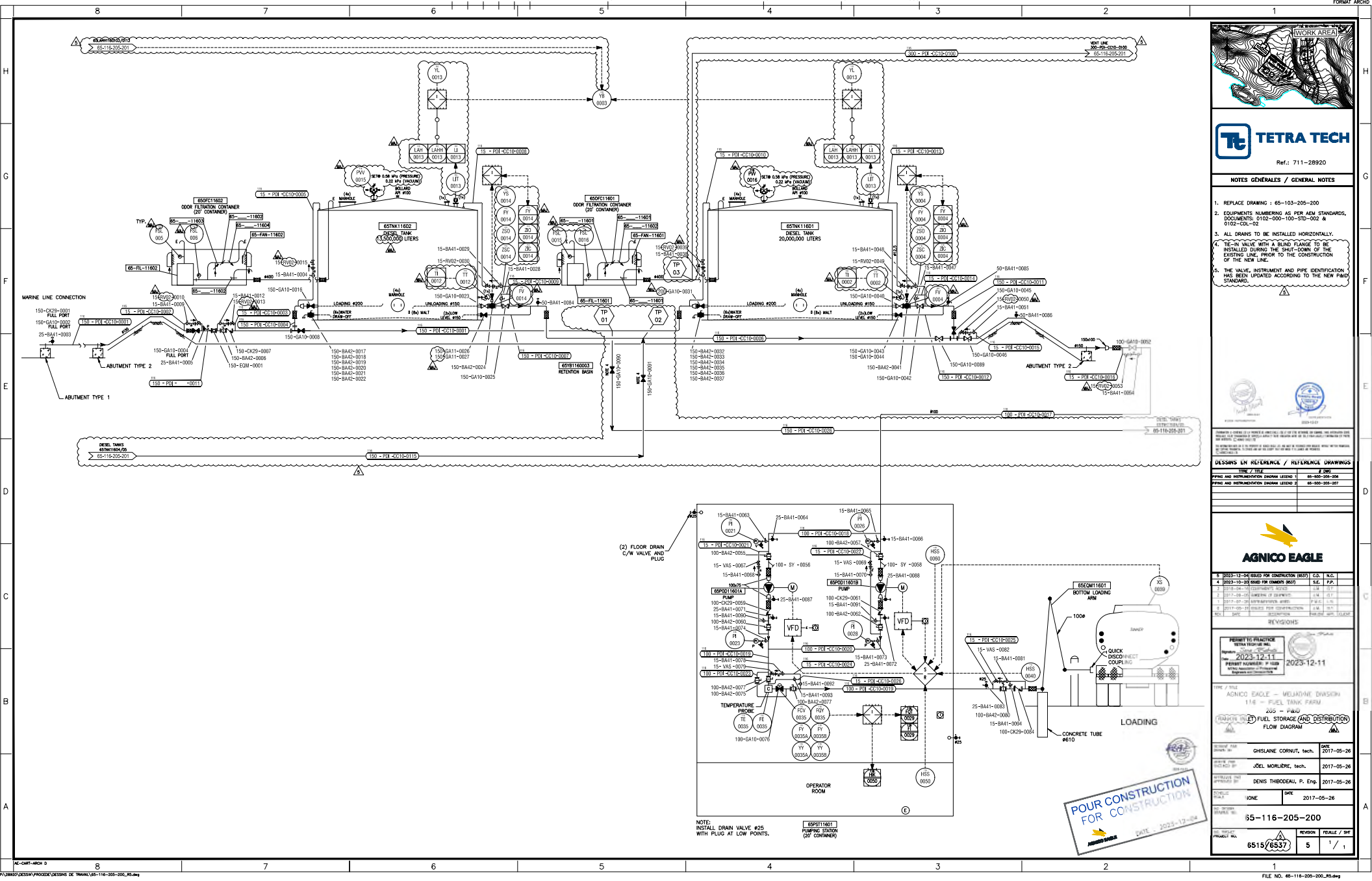
AGNICO EAGLE - MELIADINE DIVISION
116-FUEL FARM
230-GENERAL EARTH WORKS
DETAILS AND SECTIONS
RANKIN INLET - 65TNK11604 & 65TNK11605
TANKS FOUNDATIONS

DESSINÉ PAR DRAWN BY	EDUARDO RODRIGUEZ	DATE 2023-07-13
VÉRIFIÉ PAR CHECKED BY	SOLENE MOREAU	2023-07-13
APPROUVÉ PAR APPROVED BY	JOSEE ALARIE	2023-07-13
ÉCHELLE	DATE	

NO. DESSIN DRAWING NO.	65-116-230-002
---------------------------	----------------

NO. PROJECT PROJECT NO. 6537	REVISION	FEUILLE / SHT
	0	1 / 1





Ref.: 711-28920

- NOTES GÉNÉRALES / GENERAL NOTES
1. REPLACE DRAWING : 65-103-205-200
 2. EQUIPMENTS NUMBERING AS PER AGN STANDARDS, DOCUMENTS: 0102-000-100-STD-002 & 0102-CD-02
 3. ALL BRANS TO BE INSTALLED HORIZONTALLY.
 4. THE VALVE TO BE INSTALLED WITH A BLIND FLANGE TO BE INSTALLED DURING THE SHUT-DOWN OF THE EXISTING LINE, PRIOR TO THE CONSTRUCTION OF THE NEW LINE.
 5. THE VALVE, INSTRUMENT AND PIPE IDENTIFICATION HAS BEEN UPDATED ACCORDING TO THE NEW PAID STANDARD.



DESIGNS EN RÉFÉRENCE / REFERENCE DRAWINGS

TIME / FILE	REV
PPING AND INSTRUMENTATION DRAWING LEADING 1	65-103-205-200
PPING AND INSTRUMENTATION DRAWING LEADING 2	65-103-205-200



REVISIONS

NO.	DESCRIPTION	DATE
1	2023-12-11	2023-12-11



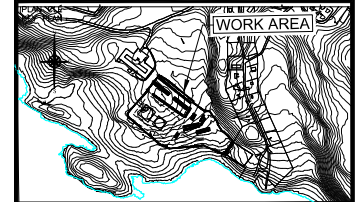
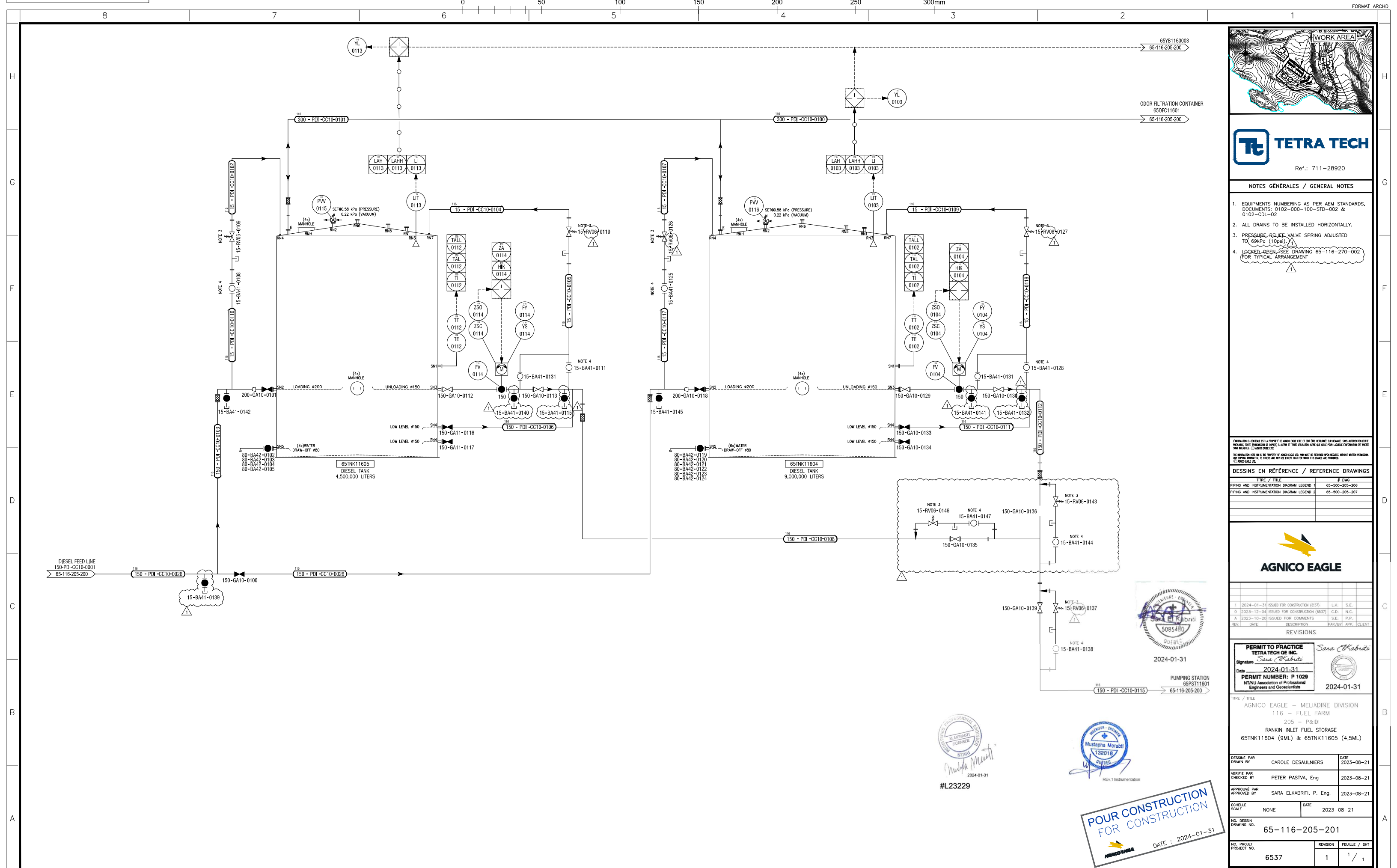
AGNICO EAGLE - MEJANVILLE DIVISION
118 - FUEL TANK FARM
FUEL STORAGE AND DISTRIBUTION
FLOW DIAGRAM

DATE	BY	DATE
2017-05-26	GHISLAINE CORNUAT, tech.	2017-05-26
2017-05-26	JÔEL MORLIERE, tech.	2017-05-26
2017-05-26	DENIS THIBODEAU, P. Eng.	2017-05-26

65-116-205-200

REVISION	DATE	BY
5	2023-12-11	6515/6537





- NOTES GÉNÉRALES / GENERAL NOTES
- EQUIPMENTS' NUMBERING AS PER AEM STANDARDS, DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
 - ALL DRAINS TO BE INSTALLED HORIZONTALLY.
 - PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psig).
 - LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERCE. AGNICO EAGLE LTD ASSUME AUCUNE RESPONSABILITÉ POUR L'INFORMATION CI-CONTENUE. AGNICO EAGLE LTD ASSUME AUCUNE RESPONSABILITÉ POUR L'INFORMATION CI-CONTENUE. AGNICO EAGLE LTD ASSUME AUCUNE RESPONSABILITÉ POUR L'INFORMATION CI-CONTENUE.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS	
TITRE / TITLE	# DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207

AGNICO EAGLE	
1	2024-01-31
0	2023-12-04
A	2023-10-20
REV	DATE
DESCRIPTION	PAR/APP
CLIENT	

PERMIT TO PRACTICE
TETRA TECH DE INC.
Signature: Sara Elkabriti
Date: 2024-01-31
PERMIT NUMBER: P 1029
NTNU Association of Professional Engineers and Geoscientists
2024-01-31

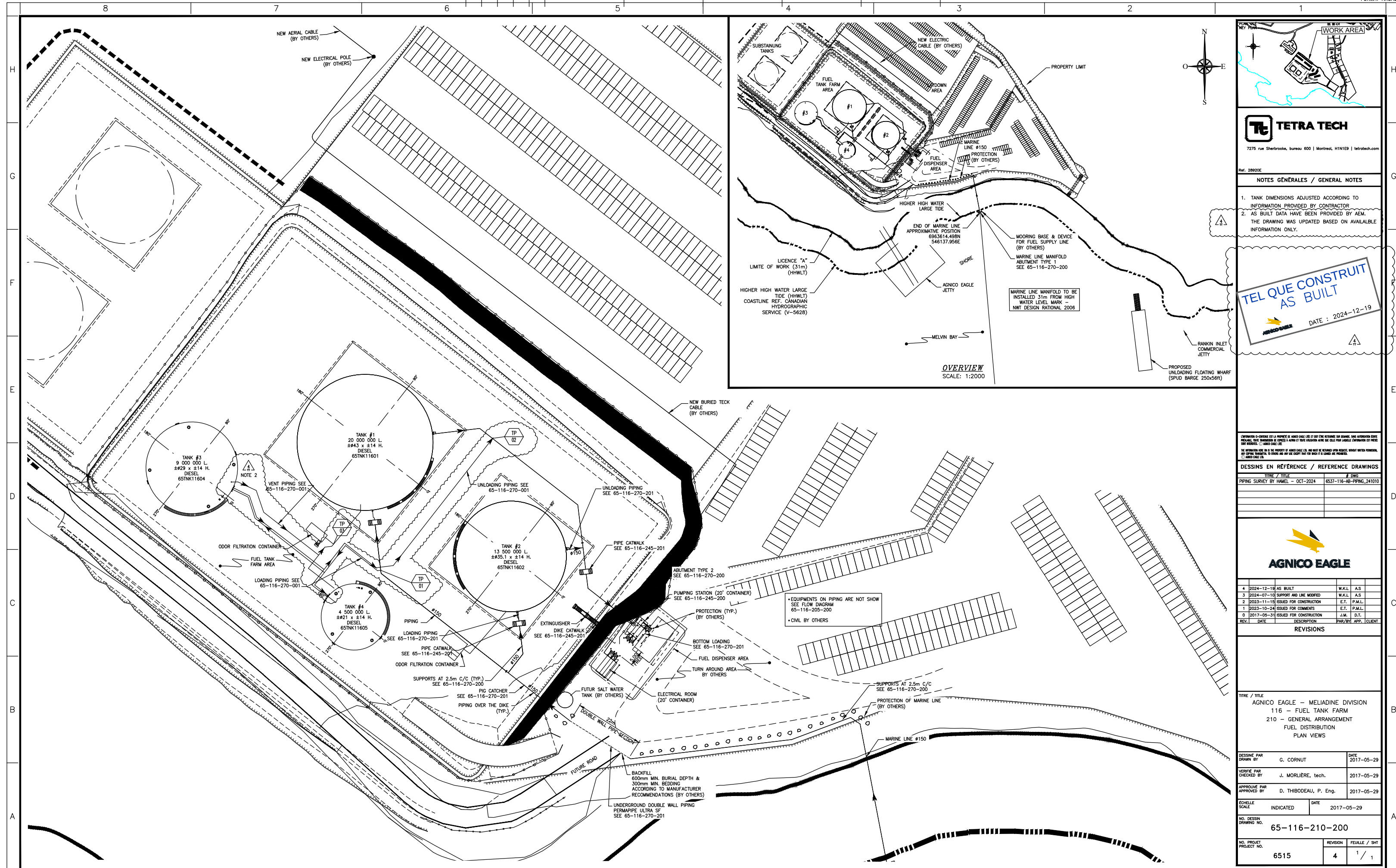
TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4,5ML)

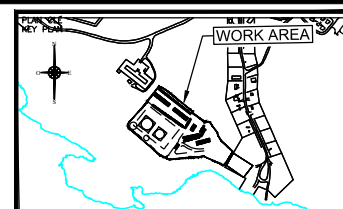
DESSINÉ PAR DRAWN BY	CAROLE DESAULNIERS	DATE 2023-08-21
VERIFIÉ PAR CHECKED BY	PETER PASTVA, Eng	2023-08-21
APPROUVÉ PAR APPROVED BY	SARA ELKABRITI, P. Eng.	2023-08-21
ÉCHELLE SCALE	NONE	DATE 2023-08-21
NO. DESSIN DRAWING NO.	65-116-205-201	
NO. PROJET PROJECT NO.	6537	REVISION FEUILLE / SHEET 1 / 1

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

APPENDIX B – AS BUILT DRAWINGS

Number	Title	Rev.
65-116-210-200	AGNICO-EAGLE - MELIADINE DIVISION 116 - FUEL TANK FARM 210 - GENERAL ARRANGEMENT FUEL DISTRIBUTION PLAN VIEW	R4
65-116-270-001	AGNICO-EAGLE - MELIADINE DIVISION 116 - FUEL TANK FARM 270 - PIPING FUEL DISTRIBUTION PLAN VIEW	R3
65-116-230-001	AGNICO EAGLE - MELIADINE DIVISION 116- FUEL FARM 230- GENERAL EARTH WORKS PLAN VIEW RANKIN INLET - 65TNK11604 & 65TNK11605 TANKS FOUNDATIONS	R1
65-116-230-002	AGNICO EAGLE - MELIADINE DIVISION 116- FUEL FARM 230- GENERAL EARTH WORKS PLAN VIEW RANKIN INLET - 65TNK11604 & 65TNK11605 TANKS FOUNDATIONS	R1
65-116-205-200	AGNICO EAGLE - MELIADINE DIVISION 116 - FUEL TANK FARM 205 - PID RANKIN INLET FUEL DISTRIBUTION AND STORAGE FLOW DIAGRAM	R7
65-116-205-201	AGNICO EAGLE - MELIADINE DIVISION 116 - FUEL FARM 205 - PID RANKIN INLET FUEL STORAGE 65TNK11604 (9ML) & 65TNK11605 (4,5ML)	R2



7275 rue Sherbrooke, bureau 600 | Montreal, H1N1E9 | tetrattech.com

Ref. 289208

NOTES GÉNÉRALES / GENERAL NOTES

1. TANK DIMENSIONS ADJUSTED ACCORDING TO INFORMATION PROVIDED BY CONTRACTOR
2. THE MAXIMUM DISTANCE BETWEEN SUPPORTS FOR #150MM (6") PIPE IS 4.3 METERS. THE MAXIMUM DISTANCE BETWEEN SUPPORTS FOR #300MM (12") PIPE IS 4.9 METERS.
3. ALL DIMENSIONS ARE FROM CENTER LINES OF PIPING.
4. FOR LINE NUMBERS AND SMALL BORE PIPING (<2" DIA) REFER TO P&ID #65-116-205-201.
5. AS BUILT DATA HAVE BEEN PROVIDED BY AEM. THE DRAWING WAS UPDATED BASED ON AVAILABLE.

TEL QUE CONSTRUIT
BUILT

DATE : 2024-12-19

L'INFORMATION CI-DESSUS EST LA PROPRIÉTÉ DE AIGCO EAGLE LTD. ET DOIT ÊTRE RETENUE SUR DEMANDE, SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE TRANSMISSION DE COPIES À AUTRE ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTÉE SONT INTERDITES. © AIGCO EAGLE LTD.

THE INFORMATION HEREON IS THE PROPERTY OF AIGCO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING TRANSMISSION TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED.
© AIGCO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITLE / TITLE	# DWG
PIPING SURVEY BY HAMEL - OCT-2024	6537-116-AB-PIPING_24101

**AGNICO EAGLE**

3	2024-12-19	AS BUILT	W.K.L	AS
2	2024-07-10	SUPPORT AND LINE MODIFIED	W.K.L	AS
1	2024-04-29	SUPPORT AND LINE MODIFIED	J.B.	N.L.
0	2023-11-23	ISSUED FOR CONSTRUCTION	E.T.	P.M.L.
A	2023-10-24	ISSUED FOR COMMENTS	E.T.	P.M.L.
REV	DATE	DESCRIPTION	DAD /BY	APP /CLIENT

REVISION

TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM
270 - PIPING
FUEL DISTRIBUTION
PLAN VIEW

DESSINÉ PAR DRAWN BY	E. TURGY	DATE 2023-10-12
-------------------------	----------	--------------------

VERIFIÉ PAR CHECKED BY	PAUL-MARIE LOEMBE, P. Eng.	2023-10-12
---------------------------	----------------------------	------------

APPROUVE PAR APPROVED BY	PAUL-MARIE LOEMBE, P. Eng.	2023-10-12
-----------------------------	----------------------------	------------

ÉCHELLE SCALE	METER	DATE	2023-10-12
------------------	-------	------	------------

NO. DESSIN
DRAWING NO. 65-116-270-001

NO. PROJ. PROJECT NO.	REVISION	FEUILLE / SHEET
6537	3	1 / 1



Ref.: 711-28920

NOTES GÉNÉRALES / GENERAL NOTES

1. THE SURROUNDING DIKES WERE MODIFIED
IN JUNE 2024 AND IS SHOWN AS PER
65-680-230-002_R1 (AS BUILT).

TEL QUE CONSTRUIT
AS BUILT

THE INFORMATION HEREON IS THE PROPERTY OF AKNCO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST, WITHOUT WRITTEN PROMISE ANY COPYING, REPRODUCTION, OR ANY USE (EXCEPT THAT FOR WHICH IT IS LOANED) IS PROHIBITED.
(C) AKNCO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWING

TITRE / TITLE	# DWG
SURVEY BY HAMEL, 2024-10-25	65-116-AB-TANK-



1	2024-12-17	ISSUED FOR AS BUILT	M.S.	S.M.	
0	2023-11-15	ISSUED FOR CONSTRUCTION	E.R.	S.M.	
REV.	DATE	DESCRIPTION	PAR/BY	APP.	CHECKED

REVISIONS

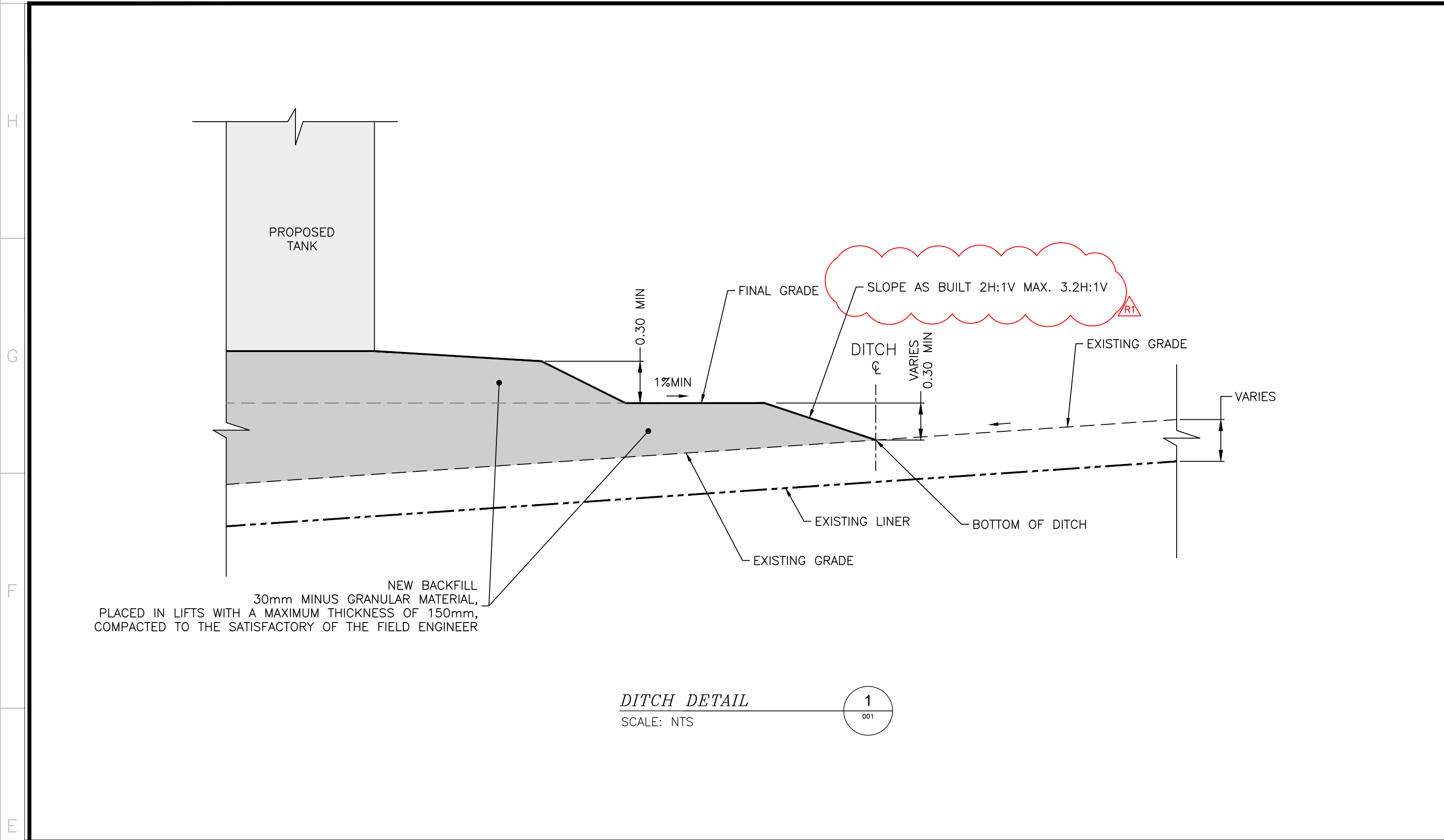
--	--

TITLE / TITLE
AGNICO EAGLE - MELIADINE DIVISION 116-FUEL FARM 230-GENERAL EARTH WORKS PLAN VIEW RANKIN INLET - 65TNK11604 & 65TNK11605 TANKS FOUNDATIONS

DESSINÉ PAR DRAWN BY	EDUARDO RODRIGUEZ	DATE 2023-07-
VERIFIÉ PAR CHECKED BY	SOLENE MOREAU	2023-07-
APPROUVÉ PAR APPROVED BY	JOSEE ALARIE	2023-07-

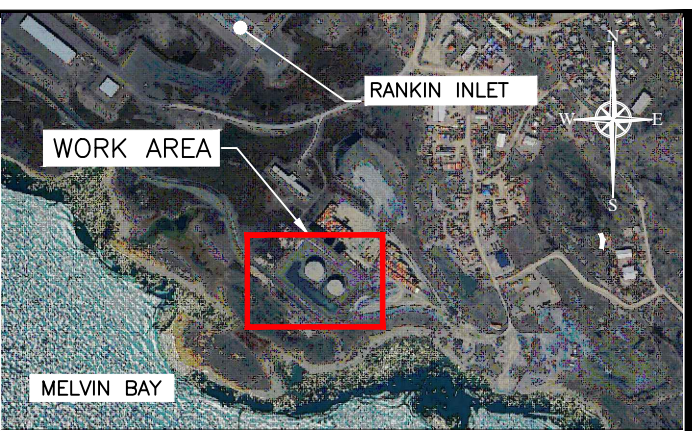
ÉCHELLE SCALE		1:250	DATE	2023-07-13
NO. DESSIN DRAWING NO.		65-116-230-001		

NO. PROJ. PROJECT NO.	REVISION	FEUILLE /
	1	1 / 1



ITEM	QUANTITY	UNIT
Granular fill 0-30mm	1 795	m ³
Dry clean sand	64	m ³
Total BACKFILL	1 859	m ³

TABLE 1: MATERIAL QUANTITIES FOR CONSTRUCTION (AS BUILT)



NOTES GÉNÉRALES / GENERAL NOTES

TEL QUE CONSTRUIT
AS BUILT
AGNICO EAGLE
DATE : 2024-12-17

L'INFORMATION QUI CONTIENNE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. ET DOIT ÊTRE RETENUE SUR DEMANDE. SANS AUTORISATION ÉCRITE, AUCUNE PARTIE DE CETTE DOCUMENTATION NE DOIT ÊTRE REPRODUITE, COPIÉE, NI TRANSMISE À AUTRE FIN QUE CELLE POUR LAQUELLE L'INFORMATION EST FOURNIE.
THIS INFORMATION HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, NO COPYING, TRANSMISSION, TO OTHERS AND ANY USE (EXCEPT THAT FOR WHICH IT IS LOANED) ARE PERMITTED.
(C) AGNICO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS	
TITRE / TITLE	# DWG
_SURVEY BY HAMEL, 2024-10-25	_65-116-AB-TANK-PAD



REV.	DATE	DESCRIPTION	PAR/REV.	APP.	CLIENT
1	2024-12-17	ISSUED FOR AS BUILT	M.S.	S.M.	
0	2023-11-15	ISSUED FOR CONSTRUCTION	E.A.	S.M.	

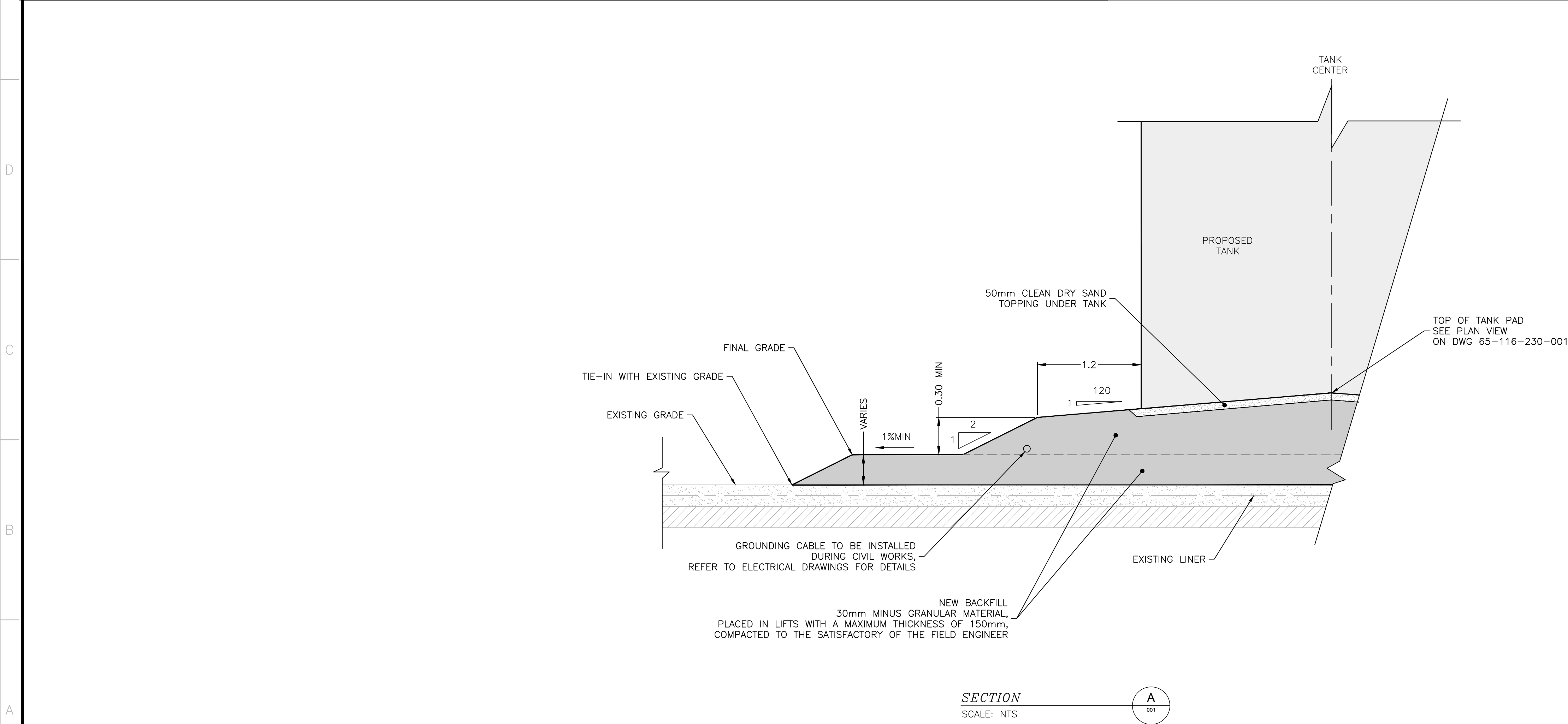
REVISIONS

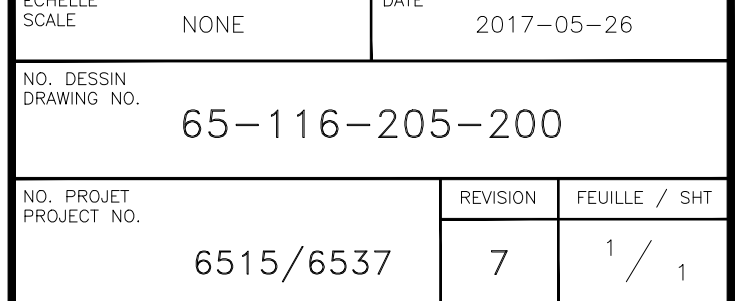
TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116-FUEL FARM
230-GENERAL EARTH WORKS
DETAILS AND SECTIONS
RANKIN INLET - 65TNK11604 & 65TNK11605
TANKS' FOUNDATIONS

DESSINÉ PAR DRAWN BY	EDUARDO RODRIGUEZ	DATE 2023-07-13
VÉRIFIÉ PAR CHECKED BY	SOLENE MOREAU	2023-07-13
APPROUVÉ PAR APPROVED BY	JOSEE ALARIE	2023-07-13

ÉCHELLE
SCALE NTS
DATE 2023-07-13
NO. DESSIN
DRAWING NO. 65-116-230-002

NO. PROJET PROJECT NO.	REVISION	FEUILLE / SHIT
6537	1	1 / 1





**TEL QUE CONSTRUIT
AS BUILT**

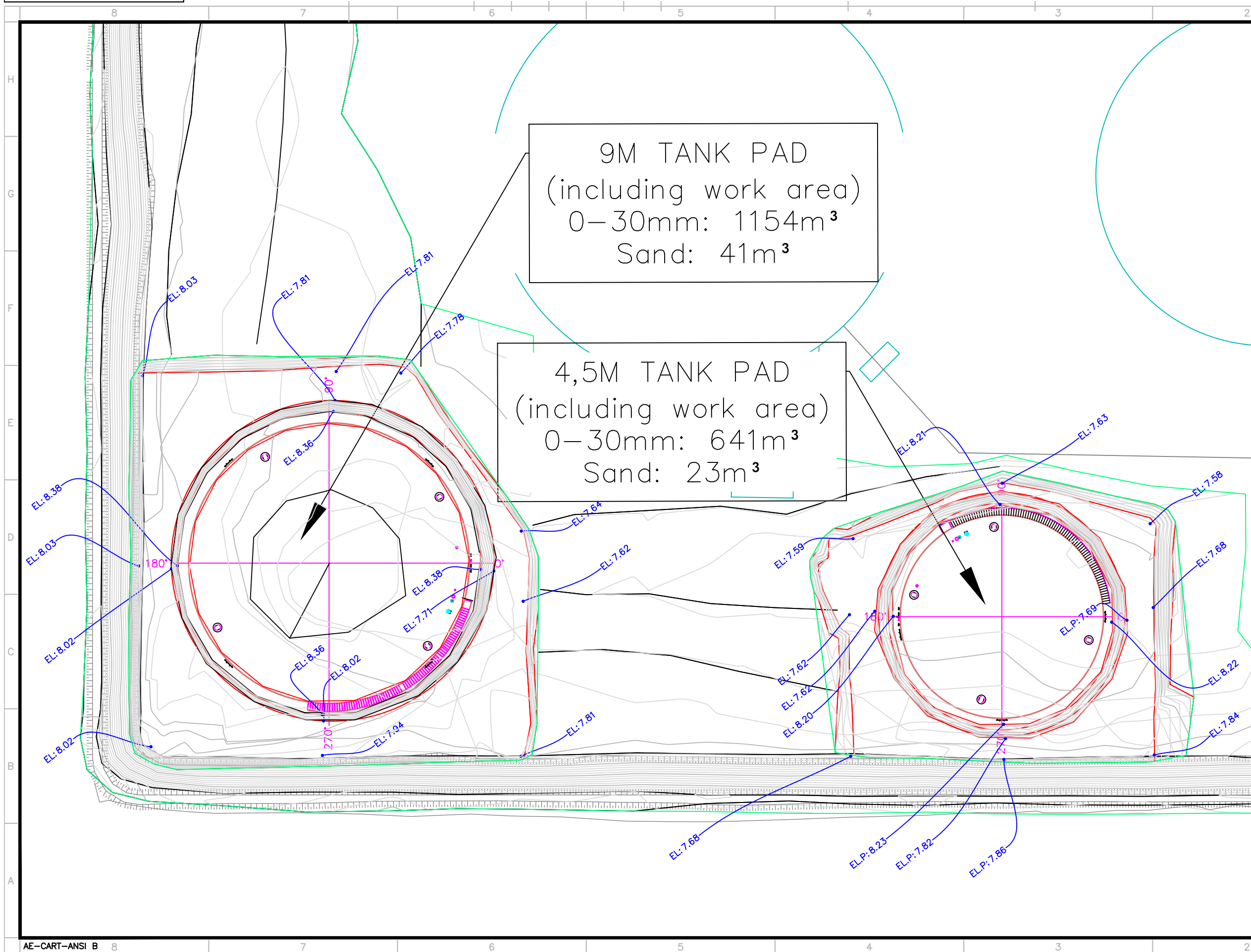
 **AGNICO EAGLE**

DATE : 2024-11-27

Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

APPENDIX C – CONSTRUCTION MONITORING DATA (CIVIL)

Number	Title	Rev.
C1	9ML and 4.5ML Tank Pad Survey 6537-116-AB-TANK-PAD_R2_241025 By Hamel Arpentage	R2
C2	9ML and 4.5ML Tank Pad Civil QA/QC report By Agnico Eagle	R0
C3	9ML and 4.5ML Tank Pad Civil Pictures By Agnico Eagle	R0



NOTES:



THE INFORMATION IS CONTAINED ON THE PROPERTY OF AKNCO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMISSION, TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED.

TITRE / TITLE	# DWG

DESSINS EN RÉFÉRENCE/REFERENCE DRAWINGS

2	As-build Elevation added	2024-10-25	JD
1	Split 0-30mm & Sand Qty	2024-10-16	JFL
REV	DESCRIPTION	DATE	PAR FY

REVISIONS

DESSINE PAR DRAWN BY	Jimmy Drolet	DATE	2024-10-10
VERIFIE PAR CHECKED BY			
APPROUVE PAR APPROVED BY			
No. PROJET PROJECT NO.	6537		
DATE	2024-10-09		

AGNICO EAGLE - MELIADINE
116 - Rankin Fuel Farm
230-GENERAL EARTH WORKS
AS-BUILD FINAL SURFACE
Backfill Quantity

ECHELLE/ SCALE	n.t.s.	FICHIER FILE	.DWG
No. DESSIN/ DRAWING NO.	6537-116-AB-TANK-PAD		REVISION 1 FEUILLE/SHT 1 / 1

Civil Earthworks Construction Summary – Two New Fuel Storage Tanks - 65TKN11604 (9ML) & 65TKN11605 (4.5ML)

- Construction management and quality assurance performed by Agnico Eagle Construction (AEM);
- Primary civil construction contractor was Kivalliq Contractors Group Ltd. (KCG);
- All surveys conducted by Hamel Arpentage Ltd. (Hamel)

1. Site and Material Preparation (March 28th to May 1st)

- Snow was cleared and material stockpiles were loosened to begin hauling to the designated snow-cleared location at Itivia.
- All crushed aggregate (30 mm minus and 50 mm minus) was sourced from the Tiriganiaq01 open pit, while the sand was screened from the 15 km esker.
- The bearing pressures of all equipment operating within the containment were calculated and verified prior to approval for use.
- As construction began prior to the freshet season, significant initial and ongoing snow removal was required to maintain access to the containment area. A temporary access ramp was constructed over the west side dike using granular material and wooden slats to provide access to the containment area and was removed upon completion of the 9ML tank pad. Snow removal in the containment area was conducted from northeast to northwest to avoid blocking access.
- Fencing around the containment was temporarily removed where necessary to allow access to the tank pads.

2. 9ML Tank pad (May 7th to June 15th)

- Frost fighters and insulated tarps were installed to accelerate thawing under the tank area and to pump out excess water.
- 0-30 mm material was placed with a Komatsu PC210LC excavator in maximum 300 mm lifts and compacted with a hand-pushed compactor.
- 50 mm of clean dry sand was placed over the 30 mm minus material for final grade.
- Sand grading was performed before the tank erection contractors installed the base plates of the 9ML tank. The final sand grade was approved by the tank contractors.
- Additional 0-30 mm material placed outside of the tank pads to provide separation between the tanks and as water management was placed using the same methodology.

3. 4.5ML Tank Pad (May 16th to July 6th)

- Same steps as in 9ML Tank.

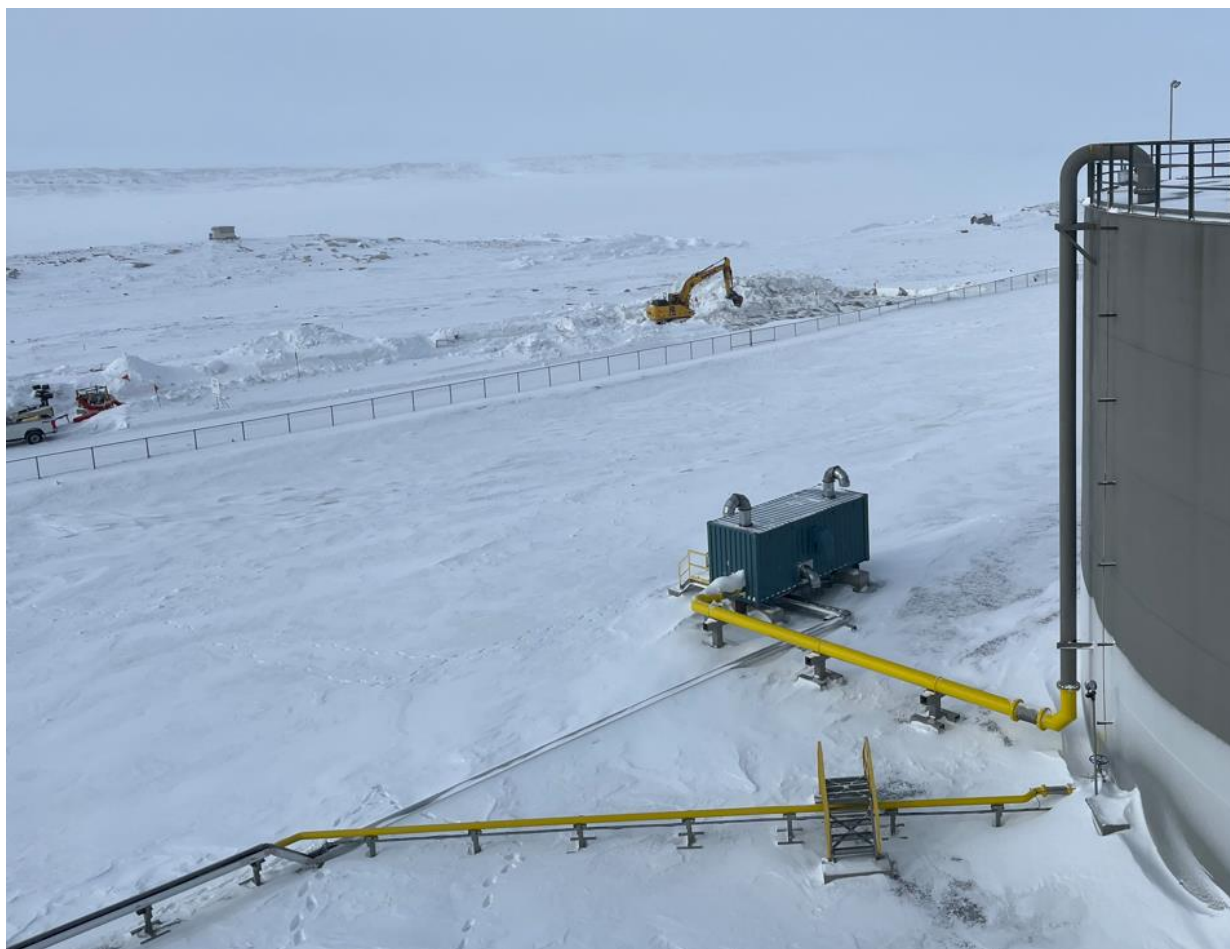
Equipment Used for Construction:

- | | |
|--|--|
| - Loader Komatsu WA500 | - Haul Truck CAT 745 |
| - Loader Bobcat T770 | - Dump truck Western Star |
| - Loader CAT 279D3 | - Skid steer CAT 279C |
| - Excavator Komatsu PC210LC (use 4"x4"x8' rig mats if used inside fuel farm) | - Telehandler JCB |
| - Excavator Komatsu HB365 | - Vibratory plate Bomag BPR 50/55 D |
| - Excavator Kubota KX040-4 | - Frost Fighters (with insulated tarps and water pump) |

QA/QC Summary

1. 30 mm minus and clean dry sand were placed according to the Technical Specifications for Civil Earthworks Revision 3 (6515-GNS-014, June 6, 2017). Compaction efforts consisted of a minimum number of passes with a Vibratory plate Bomag BPR 50/55 D. Suitability for placement and compaction efforts were assessed visually and approved by AEM.
2. Particle size analysis was not conducted; however, all the material was visually approved for use by AEM.

Pictures of Two New Fuel Storage Tanks - 65TKN11604 (9ML) & 65TKN11605 (4.5ML)



23-03-2024 Site Before Snow Removal



03-04-2024 Snow Removal



03-04-2024 Snow Removal Inside the Containment Area



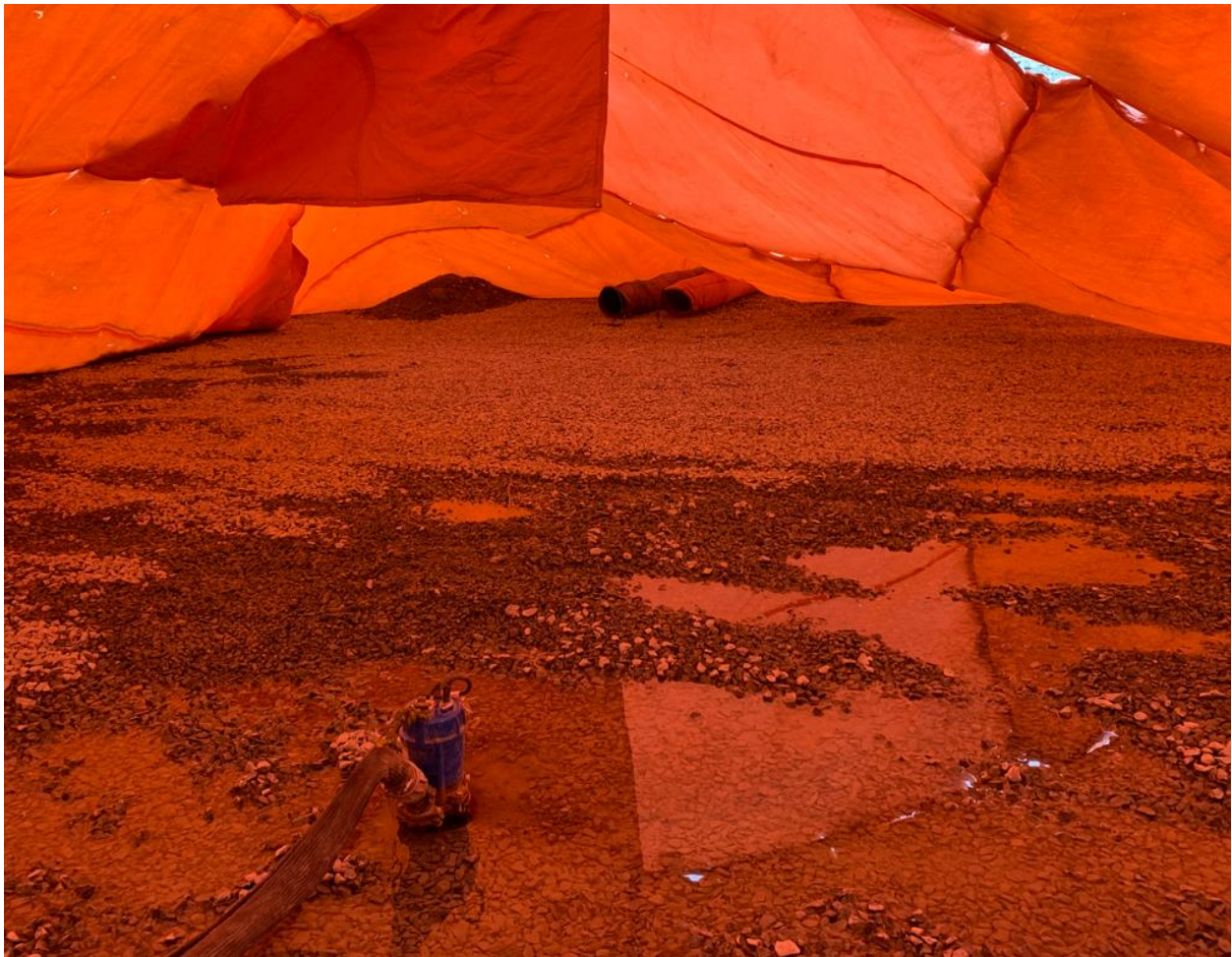
04-04-2024 Access Ramp on the West Side of the Containment, Rigmats Installed over the Dike



04-04-2024 Snow Removal



30-04-2024 Thawing Ice and Pumping out the Water at 4.5ML Tank Pad



30-04-2024 Thawing Ice and Pumping out the Water at 4.5ML Tank Pad



30-04-2024 30 mm minus Stockpile Inside the Containment



07-05-2024 9ML Tank Pad



07-05-2024 Compacting 30 mm minus on 9ML Tank Pad with Vibratory Plate



15-05-2024 9ML Tank Pad



15-05-2024 9ML Tank Pad



15-05-2024 Final Grade of 30 mm minus material on 9ML Tank Pad



16-05-2024 First and Second Lift of 30 mm minus on 4.5ML Tank Pad



16-05-2024 First and Second Lift of 30 mm minus on 4.5ML Tank Pad



28-05-2024 30 mm minus Stockpiles near Bypass Road



11-06-2024 Placement of Sand on the 9ML Tank Pad



11-06-2024 Placement of Sand on the 9ML Tank Pad



17-06-2024 Fine Tuning of Sand on 9ML Tank Pad before Tank Erection



17-06-2024 9ML Tank Pad before Tank Erection



17-06-2024 Base Layer of 9ML Tank Installed



17-06-2024 Compaction of 30 mm minus on 4.5ML Tank Pad



29-06-2024 4.5ML Tank Pad (fine tuning of sand not completed yet)



07-07-2024 4.5ML Tank Pad before Tank Erection



07-07-2024 4.5ML Tank Pad before Tank Erection

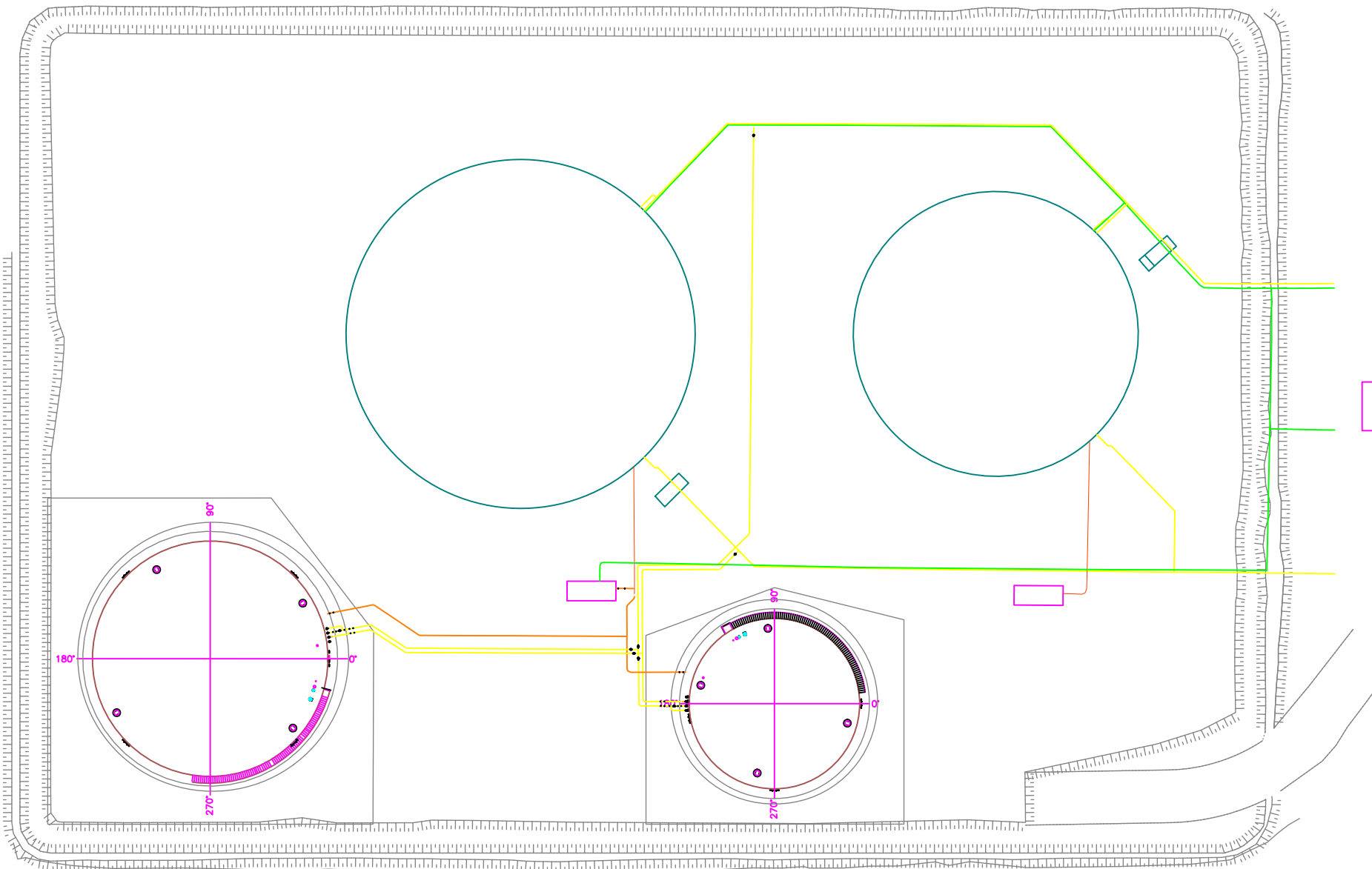
Agnico Eagle Mines Ltd / Meliadine division	CONSTRUCTION SUMMARY REPORT NEW TANKS AT RANKIN INLET FUEL FARM 65TKN11604 (9ML) & 65TKN11605 (4.5ML)	Tt Doc. N°: 6537-116-132-REP-004	
		Tt Project N°: 711-28920	
		Area: 116	
Client Doc. N°: 6537-116-132-REP-004		Work Package: NA	
Client Project N°: 6537-E-132-003		Date: 2025-02-06	Revision: R0

APPENDIX D – CONSTRUCTION MONITORING DATA (MPEI)

Number	Title	Rev.
D1	9ML and 4.5ML Tanks General Arrangement Survey 6537-116-AB-PIPING_R0_241010 By Hamel Arpentage	R0
D2	9ML and 4.5ML Tanks Piping pictures By Agnico Eagle	R0
D3	32-02207661.008_MC_0001_00 Piping welds report By Englobe Corp.	R0
D4	PV Vent Test Certificates (x2)	R0
D5	Tanks welds inspection report (x2)	R0
D6	6537-C-265-004_POV package for piping verification and pressure test	R0
D7 (*)	7.0323-21 TK-4.5ML (118 pages) Final Turnover Package By Inukshuk	R0
D8 (*)	7.0323-21 TK-9ML (121 pages) Final Turnover Package By Inukshuk	R0
D9 (*)	MEC-POV-035 Flange tightening reports By Agnico Eagle	R0

(*) Those documents are available upon request.

APPENDIX D1 - PIPING SURVEY



NOTES:



L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. ET DOIT ÊTRE RETENUEE SANS RÉPLIQUE, SANS AUTOMATISATION ÉCRITE PRÉALABLE.
TOUTE TRANSMISSION DE CÉDEX À AUTRUI ET TOUTE REPRODUCTION AU-DELÀ DE CE QUE POUR LAQUELLE L'INFORMATION EST PRÉVUE SONT INTERDITES.
© AGNICO EAGLE LTD.

THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE RETURNED UPON REQUEST.
ANY OTHER REPRODUCTION, REPRODUCTION, ANY OTHER REPRODUCTION TO
OWNERS AND ANY USE EXCEPT THAT FOR WHICH IT IS GRANTED ARE PROHIBITED.
© AGNICO EAGLE LTD.

TITRE / TITLE	# DWG

DESSINS EN RÉFÉRENCE/REFERENCE DRAWINGS

REV	DESCRIPTION	DATE	PAR BY

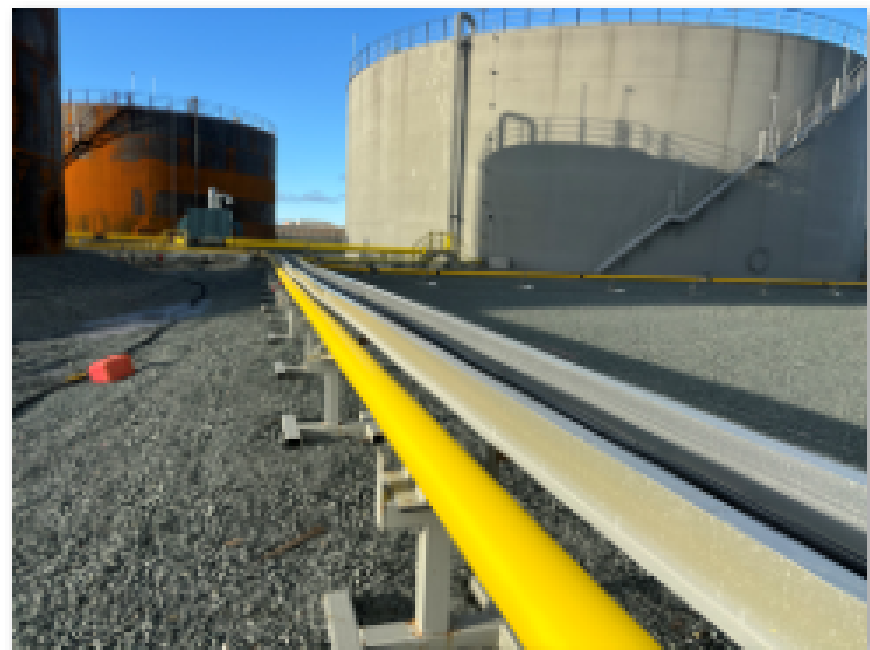
REVISIONS

DESSINÉ PAR DRAWN BY	Jimmy Drolet	DATE	2024-10-10
VÉRIFIÉ PAR CHECKED BY			
APPROUVÉ PAR APPROVED BY			
No. PROJET PROJECT NO.	6537		
DATE	2024-10-09		

TITRE / TITLE	AGNICO EAGLE – MELIADINE 116 – Rankin Fuel Farm 270 – PIPING AS-BUILD GENERAL ARRANGEMENT
---------------	---

ÉCHELLE/ SCALE	n.t.s.	FICHIER FILE	.DWG
No. DESSIN/ DRAWING NO.	6537-116-AB-piping	REVISION	0
		FEUILLE/SHIT	1 / 1

APPENDIX D2 - PIPING INSTALLATION PICTURES



IMG_3466.JPG



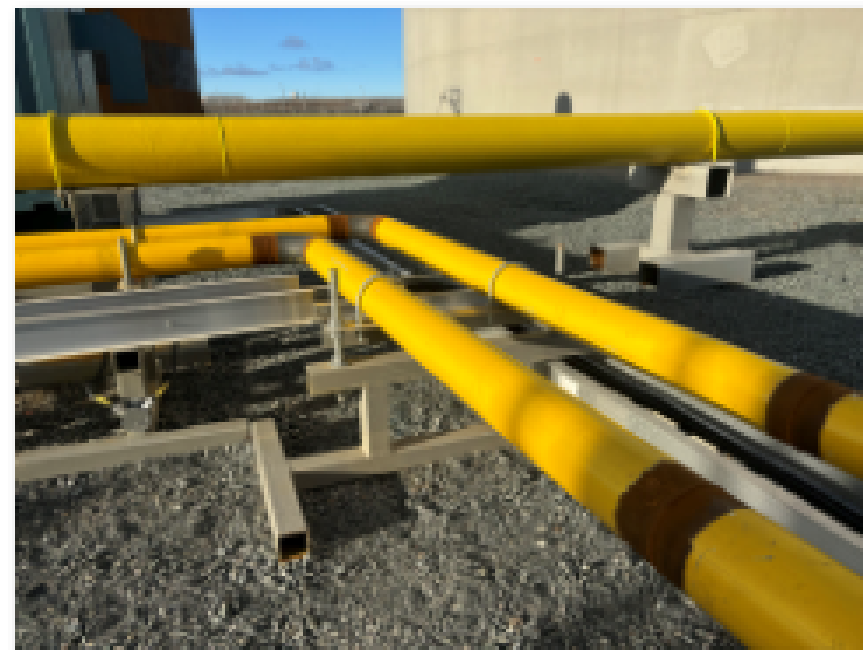
IMG_3467.JPG



IMG_3468.JPG



IMG_3469.JPG



IMG_3470.JPG



IMG_3471.JPG



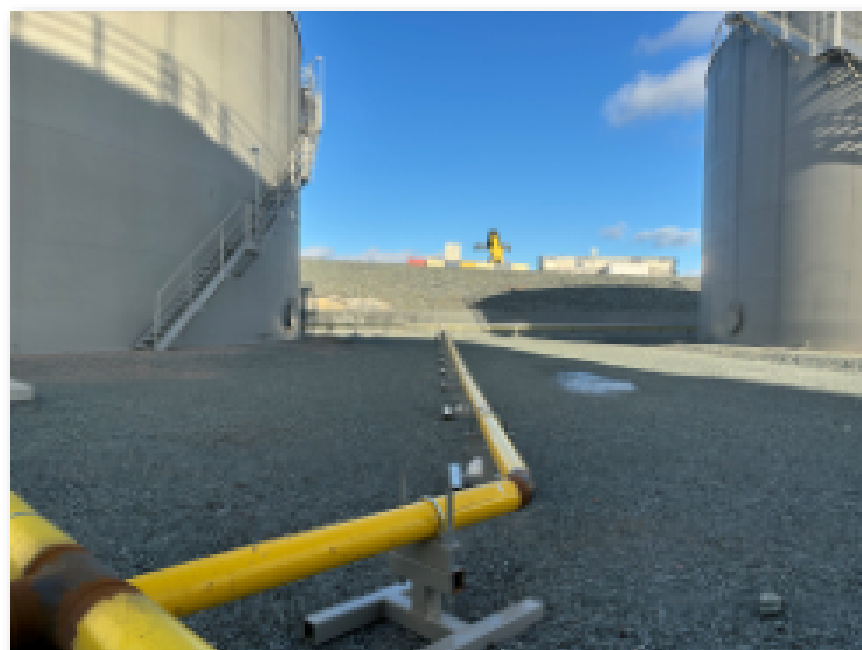
IMG_3472.JPG



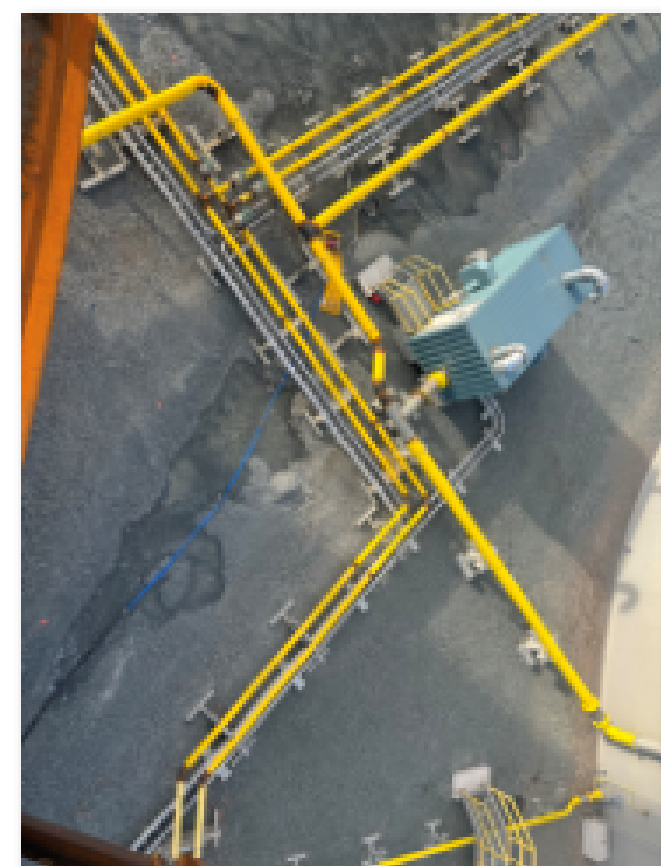
IMG_3473.JPG



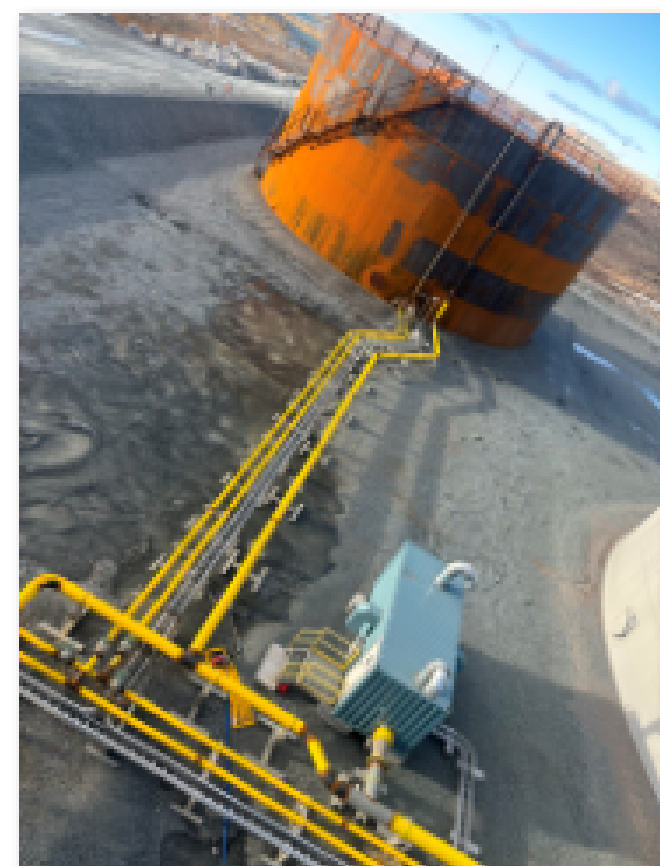
IMG_3474.JPG



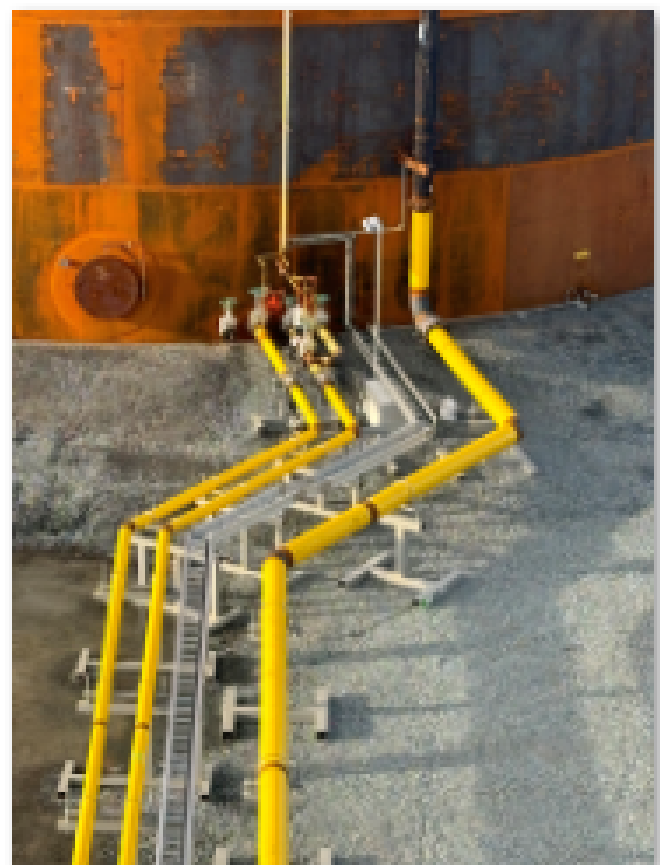
IMG_3475.JPG



IMG_3476.JPG



IMG_3477.JPG



IMG_3478.JPG



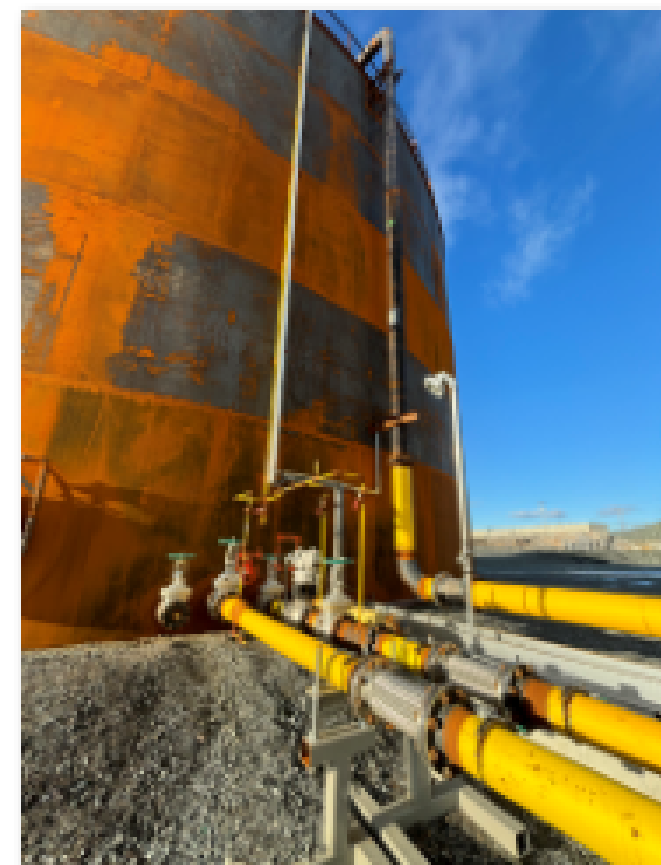
IMG_3479.JPG



IMG_3480.JPG



IMG_3481.JPG



IMG_3493.JPG



IMG_3494.JPG

Client/ Customer		Agnico Eagle Mines Limited					
Projet/ Project		Pipes 116 – Fuel Tank Farm		N° Dossier/ File #		32-02207661.008-MC-0001-00	
Endroit du travail/ Job location		Rankin Inlet, Nunavut		N° Commande/ P.O. #		OC-1447203	
Entrepreneur/ Contractor		Customer		N° Contrat/ Contract #			
RÉFÉRENCE/ REFERENCE							
Description		100% visual and magnetic particle inspection on finished welds of pipes 116 – Fuel Tank Farm					
Matériau/ Material		Steel		État des pièces/ Condition of parts		As welded	
				Fabrication :		En cours de/ In process	
						Final/ Final	
NORMES/ SPECIFICATION		B31.3 ASTM E709		Instruction qualité/ Quality Instr5uction		ASTM E709 IQ_09_MC_105	
				Date d'examen/ Examination Date		AN/YR 2024	
				MOIS/MO 08		JR/DAY 26to28	
ÉQUIPEMENT UTILISÉ/ EQUIPMENT USED							
Appareil/ Equipment		Fabricant/ Manufacturer		Modèle/ Model		N° série/ Serial #	
		MagnaFlux		Y-2		N3283	
C.A./ A.C.		Circulaire/ Circular		Continuel/ Continous		N° Englobe/ Englobe #	
C.C./ D.C.		Longitudinal/ Longitudinal		Résiduel/ Residual		211279	
						Date d'étalonnage/ Calibration date	
						Fait/ Done	
						Dû/ Due	
						Type	
						Couleur/ Color	
						Dry	
						Yellow	
RÉSULTATS/ RESULTS							

1.0 OBJECT

We performed 100% visual and magnetic particle inspection on finished welds of pipes 116 – Fuel Tank Farm.

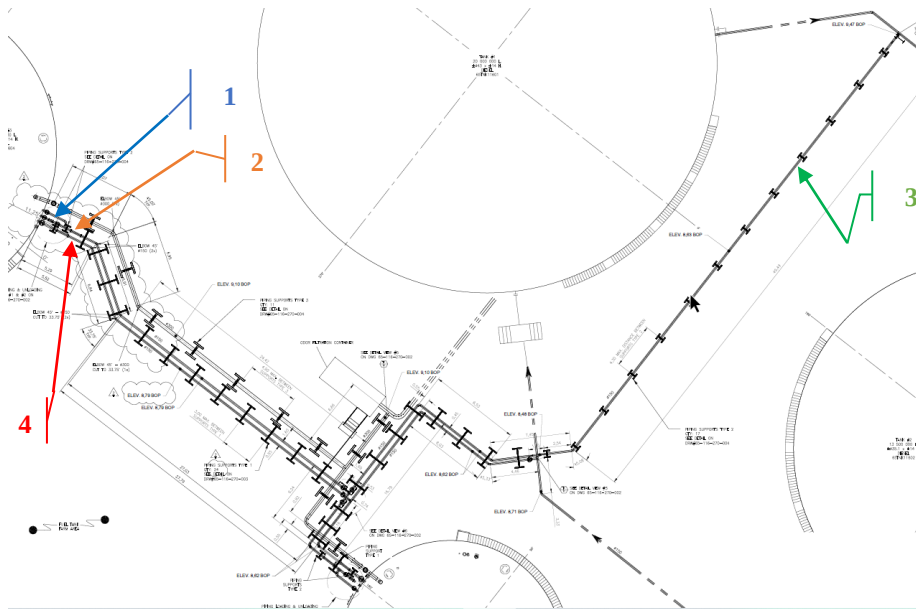
Lines: 116-150-PDI-CC10-0111, 116-150-PDI-CC10-0112, 116-150-PDI-CC10-0115, 116-150-PDI-CC10-0026.

85 - welds inspected total.

2.0 IDENTIFICATION

Project: 116 – Fuel Tank Farm, Drawing # 65-116-270-001 Rev.2

Lines: 116-150-PDI-CC10-0111, 116-150-PDI-CC10-0112, 116-150-PDI-CC10-0115, 116-150-PDI-CC10-0026.



Lines:

116-150-PDI-CC10-0111 – 1

116-150-PDI-CC10-0112 – 2

116-150-PDI-CC10-0115 – 3

116-150-PDI-CC10-0026 – 4

Drawing # 65-116-270-001



Picture 1
Pipes 116 – Fuel Tank Farm (General view)



Picture 2
Pipes 116 – Fuel Tank Farm
(Line 116-150-PDI-CC10-0111)



Picture 3
116 – Fuel Tank Farm
(Lines 116-150-PDI-CC10-0112 et 116-150-PDI-CC10-0026)



Picture 4
116 – Fuel Tank Farm
(Line 116-150-PDI-CC10-0026)



Picture 5
116 – Fuel Tank Farm
(Lines 116-150-PDI-CC10-0115 et 116-150-PDI-CC10-0026)



Picture 6
116 – Fuel Tank Farm
Line 116-150-PDI-CC10-0115

3.0 METHOD

B31.3, ASTM E709.

4.0 RESULTS

- Line 116-150-PDI-CC10-0111 – 4 welds inspected
- Line 116-150-PDI-CC10-0112 – 16 welds inspected
- Line 116-150-PDI-CC10-0115 – 23 welds inspected
- Line 116-150-PDI-CC10-0026 – 42 welds inspected

Total 85 - welds inspected.



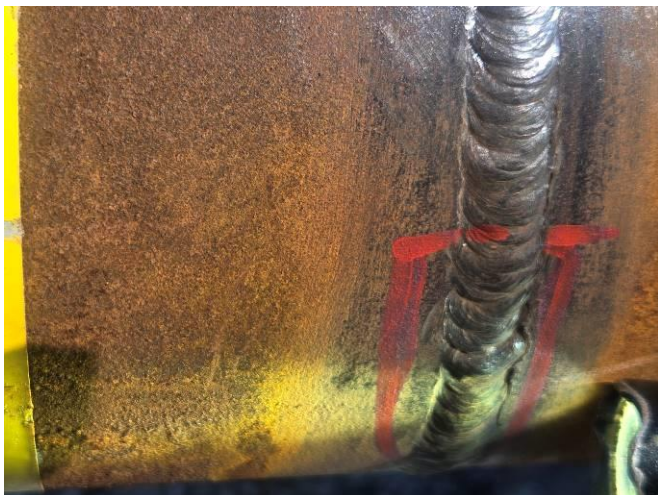
Picture 7

116 – Fuel Tank Farm, Line 116-150-PDI-CC10-0026
(undercut, surface damage)



Picture 8

116 – Fuel Tank Farm, Line 116-150-PDI-CC10-0026
(after reparation)



Picture 9

116 – Fuel Tank Farm, Line 116-150-PDI-CC10-0026
(missing welding)



Picture 10

116 – Fuel Tank Farm, Line 116-150-PDI-CC10-0026
(after reparation)



Picture 11

116 – Fuel Tank Farm, Line 116-150-PDI-CC10-0112
(undercut, missing welding, welding profile incorrect)



Picture 12

116 – Fuel Tank Farm, Line 116-150-PDI-CC10-0112
(after reparation undercut)

CONCLUSION

After reparation, all welds inspected by the contractual request

Magnetic particle inspection no pertinent indications found.

Note: welding of pipes 116 – Fuel Tank Farm is not completed at time of inspection.

/ab

The present report shall not be reproduced, unless as a whole, without written authorization of its author and Englobe Corp.
Unless otherwise indicated, results shown apply only to analyzed sample.

If tests have been carried out, the results of these tests are valid only for the sample described in the present report.
Subcontractors of Englobe Corp. who would have performed field or laboratory work are duly qualified according to the procurement procedure of our quality manual. For further or additional information, please contact the undersigned

Préparé par/ Prepared by Iuri Tocarciuc CSA W178.2 level 2 #8625 CGSB MT-PT-UT level 2 #17073	Date : 2024-09-08
Approuvé par/ Approved by  David Trudel CSA Supervisor W178.2 level 3 #4687 CSGB PT-MT-UT level 2 #12133	Date : 2024-09-09
c.c. : Y:\Shared\CA\Laval\Data\Projets\123\02207661_Agnico Eagles\1_Livrables\008_Pipes Itivia_OC1447203\32-02207661.008_MC_0001_00_it_OC-1447203_20240828.doc	

EQ-09-MC-105-Rév. 7

APPENDIX D4 - PV VENT TEST CERTIFICATES (x2)

	Product Test Report	Emerson Process Management Regulator Technologies Tulsa, LLC 9932 East 56th Street Tulsa, OK 74146-6411 918-622-6161
--	--	--

Customer Name	SPARTAN CONTROLS LTD	Customer P.O.	45219185	Project Name	
Rep Number	048 -830183655	Oracle Order No.	1017745-1	Project No.	
Sales Order Line	1	Customer Tag No.		Serial No.	R061080151

Work Order Number	Model Number	Assembly Number
30668525	950-12-1113-Z0.5/Z0.4-F	NE950*47903880

**FLAME ARRESTOR
VAREC 42**

	Air Leak Test Pressure	
	Hold Time	

	Hydrostatic Test Pressure	
	Hold Time	

EPRV / 221P

	Pressure Setting	
--	------------------	--

EPRV-V / 221PV

	Pressure Setting	
--	------------------	--

	Vacuum Setting	
--	----------------	--

HATCH

	Pressure Setting	
--	------------------	--

	Vacuum Setting	
--	----------------	--

ENARDO PVRV

✓	Pressure Setting	0.5 oz/in ²
INSTALL CALIBRATION WEIGHT AS REQUIRED		

✓	Vacuum Setting	0.4 oz/in ²
INSTALL CALIBRATION WEIGHT AS REQUIRED		

Test Date:

7/22/2022

Tested By:

GE

The referenced product has been successfully pressure tested and exhibits a leakage rate not exceeding 1.0 SCFH at 90% of pressure and/or vacuum setting.

Providing Responsive Solutions with Safety and Environmental Vapor Control Products

EU Declaration of Conformity

ATEX Directive 14/34/EU



Manufacturer: Emerson Process Management Regulator Technologies Tulsa, LLC
Address: 9932 East 58th Street, Tulsa, OK 74143-6411
Product: Emergency Pressure Vacuum Relief Vent & Pressure Vacuum Relief Vent
Model/Type: **450 & 850 (pipe-away)** Combination pressure/vacuum relief valve
550 & 950 (vent-to-atmosphere) Combination pressure/vacuum relief valve
Conformity: This document certifies that the above equipment complies with the requirements of ATEX Directive 14/34/EU.
Standards: EN 60079-0:2012, EN 60079-11:2012, EN 13463-1:2009 AND EN13463-5:2011

Based on EC-Type Examination Certificate:

Presafe 17 ATEX 10273X

DNV GL Presafe AS, Veritasveien 3, 1363 Høvik, Norway

Quality System Audited by Notified Body **2460**:

DET NORSKE VERITAS AS

Veritasveien 1, 1322 HOVIK

Norway, www.dnvcert.com

The product described in this Declaration of Conformity complies with the Applicable European Directives and relevant sections of the Applicable International Standards. The Signature on this document authorizes the distinctive European mark to be applied to the equipment described. A Technical Construction File is available for inspection by designated bodies.

 2460  II 1 G c T6  II 1 G c T5, Ex ia IIC T5 Ga  II 2 G c T6  II 2 G c T5, Ex ia IIC T5 Gb			 Authorized Signature		
DOC NO.	6300047	REV.	J	DATE:	01/15/2019

ENARDOTM



Product Test Report

Emerson Process
Management Regulator
Technologies Tulsa, LLC
9932 East 56th Street
Tulsa, OK 74146-6411
918-622-6161

Customer Name	SPARTAN CONTROLS LTD	Customer P.O.	830206971	Project Name	
Rep Number	048 -830206971	Oracle Order No.	1020466-100	Project No.	
Sales Order Line	100	Customer Tag No.		Serial No.	R061326097

Work Order Number	Model Number	Assembly Number
31939281	950-12-1113-Z0.5/Z0.4-F	NE950*50595354

FLAME ARRESTOR
VAREC 42

☐	Air Leak Test Pressure	
	Hold Time	

☐	Hydrostatic Test Pressure	
	Hold Time	

EPRV / 221P

☐	Pressure Setting	
--------------------------	------------------	--

EPRV-V / 221PV

☐	Pressure Setting	
--------------------------	------------------	--

☐	Vacuum Setting	
--------------------------	----------------	--

HATCH

☐	Pressure Setting	
--------------------------	------------------	--

☐	Vacuum Setting	
--------------------------	----------------	--

ENARDO PVRV

☒	Pressure Setting	0.5 oz/in ²
INSTALL CALIBRATION WEIGHT AS REQUIRED		

☒	Vacuum Setting	0.4 oz/in ²
INSTALL CALIBRATION WEIGHT AS REQUIRED		

Test Date:

11/30/2022

Tested By:

GY

The referenced product has been successfully pressure tested and exhibits a leakage rate not exceeding 1.0 SCFH at 90% of pressure and/or vacuum setting.

Providing Responsive Solutions with Safety and Environmental Vapor Control Products

EU Declaration of Conformity

ATEX Directive 14/34/EU



Manufacturer: Emerson Process Management Regulator Technologies Tulsa, LLC

Address: 9932 East 58th Street, Tulsa, OK 74143-6411

Product: Emergency Pressure Vacuum Relief Vent & Pressure Vacuum Relief Vent

Model/Type: **450, 850, and ES-850 (pipe-away)** Combination pressure/vacuum relief valve
550, 950, and ES-950 (vent-to-atmosphere) Combination pressure/vacuum relief valve

Conformity: This document certifies that the above equipment complies with the requirements of ATEX Directive 14/34/EU.

Standards: EN 60079-0:2018, EN 60079-11:2012, EN ISO/IEC 80079-36:2016, and EN ISO/IEC 80079-37:2016

Based on EU-Type Examination Certificate:

Presafe 17 ATEX 10273X

DNV GL Presafe AS, Veritasveien 3, 1363 Høvik, Norway

Quality System Audited by Notified Body **2460:**

DET NORSKE VERITAS AS

Veritasveien 1, 1322 HOVIK

Norway, www.dnvcert.com

The product described in this Declaration of Conformity complies with the Applicable European Directives and relevant sections of the Applicable International Standards. The Signature on this document authorizes the distinctive European mark to be applied to the equipment described. A Technical Construction File is available for inspection by designated bodies.

 2460 		II 1 G Ex h IIC T6 Ga II 1 G Ex h ia IIC T5 Ga II 2 G Ex h IIC T6 Gb II 2 G Ex h ia IIC T5 Gb		 Authorized Signature	
DOC NO.	6300047	REV.	JA	DATE:	08/15/2022

ENARDO™

VISUEL/ VISUAL ☐MAGNÉTOSCOPIE/
MAGNETIC PARTICLE ☒ULTRASONS/
ULTRASONICS ☒

Englobe Corp.
1200, boul. Saint-Martin Ouest, bureau 400
Laval (Québec) Canada H7S 2E4
Téléphone : (514) 281-5151
Télécopieur : (450) 668-5532
Courriel : info@englobecorp.com
Site Web : www.englobecorp.com

Client/ Customer		Inukshuk Construction Limited					
Projet/ Project		Rankin Inlet Tank#3 (9ML)		N° Dossier/ File #		32-02102078-004-MC 0001-00	
Endroit du travail/ Job location		Rankin Inlet, Nunavut		N° Commande/ P.O. #		371-1045	
Entrepreneur/ Contractor		N° Contrat/ Contract #					
RÉFÉRENCE/ REFERENCE							
Description		Rankin Inlet Tank#3 (9ML)					
Matériau/ Material		Steel		État des pièces/ Condition of parts		As welded	
				Fabrication :		En cours de/ In process ☐ Final/ Final ☒	
NORMES/ SPECIFICATION		ASME Div. VIII		Instruction qualité/ Quality Instruction		IQ_09_MC_105 IQ_09_MC_107 IQ-09-MC-46	
				Date d'examen/ Examination Date		AN/YR 2024 MOIS/MO 07 JR/DAY 15-19	
ÉQUIPEMENT UTILISÉ MAGNÉTOSCOPIE/ EQUIPMENT USED MAGNETIC PARTICLE							
Appareil/ Equipment		Fabricant/ Manufacturer		Modèle/ Model		N° série/ Serial #	
		MagnaFlux		Y-2		N3283	
		N° Englobe/ Englobe #		Date d'étalonnage/ Calibration date		Fait/ Done	
		211279		2023-11-10		Dû/ Due	
		2024-11-10					
C.A./ A.C. ☒		Circulaire/ Circular ☐		Continuel/ Continuous ☒		Démagnétisé/ Demagnetized	
C.C./ D.C. ☐		Longitudinal/ Longitudinal ☒		Résiduel/ Residual ☐		N/A	
				Particules/ Particles		Couleur/ Color	
						White Yellow	
ÉQUIPEMENT UTILISÉ ULTRASONS/ EQUIPMENT USED ULTRASONICS							
Appareil/ Equipment		Fabricant/ Manufacturer		Modèle/ Model		N° série/ Serial #	
		Olympus		Epoch 650		211389511	
		N° Englobe/ Englobe #		Date d'étalonnage/ Calibration date		Fait/ Done	
		211274		2023-11-10		Dû/ Due	
		2024-11-10					
Palpeurs/ Transducers		Fabricant/ Manufacturer		Modèle/ Model		N° série/ Serial #	
1		TechniSonic		CF-0503-GP		27100	
2		Panametrics		A540S-SM		1328942	
3		Olympus		A543S-S1		1332003	
4							
Bloc d'étalonnage/ Calibration block		Type IIS ASME Cal Block		N° série/ Serial # 19-4240		Couplant Echogel	
						Sensibilité/ Sensibility DAC + 37.4 dB	
RÉSULTATS/RESULTS							

OBJECT

We performed magnetic particle and ultrasonic inspection on Rankin Inlet Tank#3 (9ML).



Picture 1
Rankin Inlet Tank#3 (9ML) outside



Picture 2
Rankin Inlet Tank#3 (9ML) inside

MAGNETIC PARTICLE

Magnetic particle inspection was performed on 100% welds of the sub mentioned assemblies:

TABLE 1 – INSPECTION RESULTS

Item	Dessin/ Drawing	Quantité/ Quantity	Type de joint/ Joint type	Inspection (VT-MT)	Fréquence/ Frequency (%)	Résultats/ Résultats (C / NC)	Commentaires/ Comments
Nozzle SN1	371-M4	1	T -joint weld	MT	N/A	C	
Nozzle SN2 & reinforcing pad	371-M4	1	T -joint weld	MT	N/A	C	
Nozzle SN3 & reinforcing pad	371-M4	1	T -joint weld	MT	N/A	C	
Nozzle SN4 & reinforcing pad	371-M4	2	T -joint weld	MT	N/A	C	
Nozzle SN5 & reinforcing pad	371-M4	6	T -joint weld	MT	N/A	C	
Manhole SMH& reinforcing pad	371-M4	4	T -joint weld	MT	N/A	C	
Corner wall	371-M4	1	T -joint weld	MT	N/A	C	



Picture 3

Nozzle SN2, SN3, SN4-A, SN4-B inside



Picture 4

Nozzle SN2, SN3, SN4-A, SN4-B & reinforcing pad outside



Picture 5

Manhole & reinforcing pad outside



Picture 6

Corner wall & Nozzle SN5 inside

ULTRASOUNDS

Ultrasonic inspection was performed on welds spots full penetration weld of the sub mention assemblies.
Each location spots specified by client.

TABLE 2 – INSPECTION RESULTS

Item	Drawing	Quantity	Joint type	Thickness (mm)	Frequency (%)	Scanning Distance (mm)	Results (C /NC) and comments
Vertical weld 5V/5V	371-M4	8	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6"
5V/5V with 4V	371-M4	8	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 5V with 4V	371-M4	2	Butt -joint weld	6.35	N/A	Variable	C. Spot 6"
4V/4V with 5V	371-M4	8	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
4V/4V with 3V	371-M4	8	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 4V with 3V	371-M4	2	Butt -joint weld	6.35	N/A	Variable	C. Spot 6"
3V/3V with 4V	371-M4	8	Butt -joint weld	6.35 7.94	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
3V/3V with 2V	371-M4	8	Butt -joint weld	7.94	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 3V with 2V	371-M4	2	Butt -joint weld	7.94	N/A	Variable	C. Spot 6"
2V/2V with 3V	371-M4	8	Butt -joint weld	7.94 9.53	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
2V/2V with 1V	371-M4	8	Butt -joint weld	9.53	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 2V with 1V	371-M4	2	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"
1V/1V with 2V	371-M4	8	Butt -joint weld	9.53 12.7	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 2V with 1V	371-M4	2	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"
Vertical weld Middle 1V/1V	371-M4	7	Butt -joint weld	12.7	N/A	Variable	C. Spot 6"
Vertical weld Bottom 1V/1V	371-M4	7	Butt -joint weld	12.7	N/A	Variable	C. Spot 6"
Door 1V/1V with 2V	371-M4	2	Butt -joint weld	9.53 12.7	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Door Vertical weld Middle 1V/1V	371-M4	2	Butt -joint weld	12.7	N/A	Variable	C. Spot 6"
Door Vertical weld Bottom 1V/1V	371-M4	2	Butt -joint weld	12.7	N/A	Variable	C. Spot 6"
Door Horizontal weld 2V with 1V	371-M4	1	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"

TABLE 3 – INDICATIONS

N° Ligne	N° Indication	Probe Type	Thickness	Side	Decibels				Discontinuity					Evaluation	Remarks
					% Amplitude	Recordable	Rejectable	Classification	Length	South Path	Depth	Distance			
												From X	From Y		
1															
2															



Picture 7
Position 2V5/2V6 with 1V6



Picture 8
Door welds. Horizontal weld spot 6". Welds 1V/1V with 2V.
Vertical bottom and middle welds spot 6".

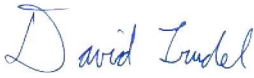
CONCLUSION

All welds inspected are following ASME Div. VIII.

/ab

The present report shall not be reproduced, unless as a whole, without written authorization of its author and Englobe Corp.
Unless otherwise indicated, results shown apply only to analyzed sample.

If tests have been carried out, the results of these tests are valid only for the sample described in the present report.
Subcontractors of Englobe Corp. who would have performed field or laboratory work are duly qualified according to the procurement procedure of our quality manual. For further or additional information, please contact the undersigned.

Préparé par/ Prepared by Iuri Tocarciuc CSA W178.2 level 2 #8625 CGSB PT-MT-UT level 2 #17073	Date : 2024-07-23
Approuvé par/ Approved by  David Trudel Supervisor CSA W178.2 level 3 #4687 CGSB PT-MT-UT level 2 #12133	Date : 2024-07-23
c.c. : Y:\Shared\CA\Laval\Data\Projets\123\02102078_Mosher\1_Livrables\02102078.004\32-02102078_004_MC_0001_00\32-02102078_004_MC_0001_00_it_20240719.doc	

EQ-09-MC-107B-Rév. 0

Client/ Customer		Inukshuk Construction Limited					
Projet/ Project		Rankin Inlet Tank#4 (4.5ML)		N° Dossier/ File #		32-02102078-003-MC 0001-00	
Endroit du travail/ Job location		Rankin Inlet, Nunavut		N° Commande/ P.O. #			
Entrepreneur/ Contractor				N° Contrat/ Contract #			
RÉFÉRENCE/ REFERENCE							
Description		Rankin Inlet Tank#4 (4.5ML)					
Matériau/ Material		Steel		État des pièces/ Condition of parts		As welded	
				Fabrication :		En cours de/ In process ☐ Final/ Final ☒	
NORMES/ SPECIFICATION		ASME Div. VIII		Instruction qualité/ Quality Instruction		IQ_09_MC_105 IQ_09_MC_107 IQ-09-MC-46	
				Date d'examen/ Examination Date		AN/YR 2024 MOIS/MO 08 JR/DAY 23-25	
ÉQUIPEMENT UTILISÉ MAGNÉTOSCOPIE/ EQUIPMENT USED MAGNETIC PARTICLE							
Appareil/ Equipment		Fabricant/ Manufacturer		Modèle/ Model		N° série/ Serial #	
		MagnaFlux		Y-2		N3283	
						N° Englobe/ Englobe #	
						211279	
C.A./ A.C.		☒		Continuel/ Continuous		☒	
C.C./ D.C.		☐		Résiduel/ Residual		☐	
		Longitudinal/ Longitudinal				N/A	
						Particules/ Particles	
						Type	
						Couleur/ Color	
						White Yellow	
ÉQUIPEMENT UTILISÉ ULTRASONS/ EQUIPMENT USED ULTRASONICS							
Appareil/ Equipment		Fabricant/ Manufacturer		Modèle/ Model		N° série/ Serial #	
		Olympus		Epoch 650		211389511	
						N° Englobe/ Englobe #	
						211274	
Palpeurs/ Transducers		1		Fabricant/ Manufacturer		Modèle/ Model	
				TechniSonic		CF-0503-GP	
		2		Panametrics		A540S-SM	
		3		Olympus		A543S-S1	
		4					
Bloc d'étalonnage/ Calibration block		Type		N° série/ Serial #		Couplant	
		IIS		19-4240		Echogel	
		ASME Cal Block				Sensibilité/ Sensitivity	
						DAC + 37.2 dB	
RÉSULTATS/RESULTS							

OBJECT

We performed magnetic particle and ultrasonic inspections on Rankin Inlet Tank#4 (4.5ML).



Picture 1

Rankin Inlet Tank#4 (4.5ML) outside



Picture 2

Rankin Inlet Tank#4 (4.5ML) inside

MAGNETIC PARTICLE

Magnetic particle inspection was performed on 100% welds of the sub mention assemblies:

TABLE 1 – INSPECTION RESULTS

Item	Dessin/ Drawing	Quantité/ Quantity	Type de joint/ Joint type	Inspection (VT-MT)	Fréquence/ Frequency (%)	Résultats/ Résultats (C / NC)	Commentaires/ Comments
Nozzle SN1	371-M13	1	T -joint weld	MT	N/A	C	
Nozzle SN2 & reinforcing pad	371-M13	1	T -joint weld	MT	N/A	C	
Nozzle SN3 & reinforcing pad	371-M13	1	T -joint weld	MT	N/A	C	
Nozzle SN4 & reinforcing pad	371-M13	2	T -joint weld	MT	N/A	C	
Nozzle SN5 & reinforcing pad	371-M13	4	T -joint weld	MT	N/A	C	
Manhole SMH & reinforcing pad	371-M13	4	T -joint weld	MT	N/A	C	
Corner wall	371-M13	1	T -joint weld	MT	N/A	C	



Picture 3

Nozzle SN2, SN3, SN4 (2 nozzles) - inside



Picture 4

Nozzle SN2, SN3, SN4 (2 nozzles) & reinforcing pad - outside



Picture 5

Manhole & reinforcing pad, Corner wall - outside



Picture 6

Corner wall - inside

ULTRASOUNDS

Ultrasonic inspection was performed on welds spots full penetration weld of the sub mention assemblies.
Each location spots specified by client.

TABLE 2 – INSPECTION RESULTS

Item	Drawing	Quantity	Joint type	Thickness (mm)	Frequency (%)	Scanning Distance (mm)	Results (C /NC) and comments
Vertical weld 5V/5V	371-M13	6	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6"
5V/5V with 4V	371-M13	6	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 5V with 4V	371-M13	2	Butt -joint weld	6.35	N/A	Variable	C. Spot 6"
4V/4V with 5V	371-M13	6	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
4V/4V with 3V	371-M13	6	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 4V with 3V	371-M13	2	Butt -joint weld	6.35	N/A	Variable	C. Spot 6"
3V/3V with 4V	371-M13	6	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
3V/3V with 2V	371-M13	6	Butt -joint weld	6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 3V with 2V	371-M13	2	Butt -joint weld	6.35	N/A	Variable	C. Spot 6"
2V/2V with 3V	371-M13	6	Butt -joint weld	7.94 6.35	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
2V/2V with 1V	371-M13	6	Butt -joint weld	7.94	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 2V with 1V	371-M13	2	Butt -joint weld	7.94	N/A	Variable	C. Spot 6"
1V/1V with 2V	371-M13	5	Butt -joint weld	9.53 7.94	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Horizontal weld 2V with 1V	371-M13	2	Butt -joint weld	7.94	N/A	Variable	C. Spot 6"
Vertical weld Middle 1V/1V	371-M13	5	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"
Vertical weld Bottom 1V/1V	371-M13	5	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"
Door 1V/1V with 2V	371-M13	2	Butt -joint weld	9.53 7.94	N/A	Variable	C. Vertical spot 6" C. Horizontal spot 4"
Door Vertical weld Middle 1V/1V	371-M13	2	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"
Door Vertical weld Bottom 1V/1V	371-M13	2	Butt -joint weld	9.53	N/A	Variable	C. Spot 6"
Door Horizontal weld 2V with 1V	371-M13	1	Butt -joint weld	7.94	N/A	Variable	C. Spot 6"

TABLE 3 – INDICATIONS

N° Ligne	N° Indication	Probe Type	Thickness	Side	Decibels				Discontinuity				Evaluation	Remarks	
					% Amplitude	Recordable	Rejectable	Classification	Length	South Path	Depth	Distance			
												From X			From Y
1															
2															



Picture 7
Position 3V6/3V1 with 2V6



Picture 8
Door welds. Horizontal weld spot 6". Welds 1V/1V with 2V.
Vertical bottom and middle welds spot 6".

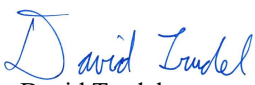
CONCLUSION

All welds inspected are following ASME Div. VIII.

/ab

The present report shall not be reproduced, unless as a whole, without written authorization of its author and Englobe Corp.
Unless otherwise indicated, results shown apply only to analyzed sample.

If tests have been carried out, the results of these tests are valid only for the sample described in the present report.
Subcontractors of Englobe Corp. who would have performed field or laboratory work are duly qualified according to the procurement procedure of our quality manual. For further or additional information, please contact the undersigned.

Préparé par/ Prepared by	Iuri Tocarciuc CSA W178.2 level 2 #8625 CGSB PT-MT-UT level 2 #17073	Date :	2024-09-02
Approuvé par/ Approved by	 David Trudel Supervisor CSA W178.2 level 3 #4687 CGSB PT-MT-UT level 2 #12133	Date :	2024-09-03
c.c. :			
Y:\Shared\CA\Laval\Data\Projets\123\02102078_Mosher\1_Livrables\02102078.003\32-02102078_003_MC_0001_00\32-02102078_003_MC_0001_00_it_20240825.doc			

EQ-09-MC-107B-Rév. 0

		FEUILLE DE VÉRIFICATION / INSPECTION SHEET	
Tuyauterie / Piping			
Secteur / Sector :	116 - Itivia Fuel Farm Tank	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-23
Description / Description:	Fuel loading piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-018
INSPECTION VISUELLE (VPO) / VISUAL INSPECTION (POV)			
1.01	Vérification des tag de couleur, toutes du bon type / Tags verification, all of correct type	✓	
1.02	Cadenassage fait et inspection sécuritaire / Pad locking complete and secure inspection conditions	✓	
1.03	Installation selon dessins / Installation as per erection drawings	✓	
1.04	Structures et refort complet et bien boulonné / Support structures complete and boled	✓	
1.05	Sécuriser le périmètre avec les rubans de sécurité / Perimeter taping	✓	
2.02	Tuyaux isolés aux bons endroits / Blanks installed at the correct locations	✓	
2.03	Équipements isolés de la tuyauterie / Equipment isolated from piping	✓	
2.04	Supports à ressorts bloqués / Spring supports blocked	✓	
2.05	Filtres temporaires installés / Temporary strainers installed		
2.06	Valves anti-retour maintenues en positions ouvertes / Check valves locked open		
2.07	Drains et événements installés / Drains and vents installed		
2.08	Dispositif d'expansion thermique en place / Thermal expansion relief installed		
2.09	Lavage initial des lignes et vidange fait / Initial flushing and cleaning	✓	
TESTS / TESTS			
3.01	Est-ce que les autorités locales doivent assister au test? / Are local authority required to witness test?		
3.02	Oui (nom) / Yes (name)	✓	On-site AEM supervisor
3.03	Non / No		
3.04	Pompe de test et manomètres en place / Test pump and gauges installed	✓	
3.05	Remplir la ligne / Line filled	✓	
3.06	Purger l'air de la ligne / Air purged from line	✓	
3.07	Fermer les événements / Vents closed	✓	
3.08	Fluide de test à moins de 50°C / Test fluid at less than 50°C	✓	
3.09	Test de pression complété / Pressure test completed	✓	Formulaire / Form MEC-POV-019
3.10	Ligne lavée et vidée / Line flushed and cleanned	✓	
3.11	Vérifier les points bas dans la ligne / Empty low points of line	✓	
3.12	Retirer les disques d'isolation / Remove blanks and plugs	✓	
3.13	Équipements et valves reconnectés / Equipments and valves reinstalled	✓	
3.14	Stériliser / Sterilization	✓	
3.15	Saumure et passivation / Pickle and passivation	✓	
SIGNATURES / SIGNATURES (VPO) (POV) (TEST)			
Exécutant Construction / Construction Executor		Date	
		Executant Comm. Team / Comm.Team Executor	
		Date	
		2024-09-25	

AEM

Rév.:01

Secteur / Sector :	116- Fuel Farm Itivia	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-13
Description / Description:	Fuel loading piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-019

INSPECTION VISUELLE (VPO) / VISUAL INSPECTION (POV)

1.01	Vérification des tag de couleur, toutes du bon type / Tags verification, all of correct type	☒
1.02	Cadenassage fait et inspection sécuritaire / Pad locking complete and secure inspection conditions	☒
1.03	Installation selon dessins / Installation as per erection drawings	☒
1.04	Structures et refort complet et bien boulonné / Support structures complete and boled	☒
1.05	Sécuriser le périmètre avec les rubans de sécurité / Perimeter taping	☒

2.01	Identification / Identification	
2.02	Système / System	Per line list on the next page
2.03	Circuit / Line	150-PDI-CC10-0026; 150-PDI-CC10-0103;
2.04	Service / Service	Fuel loading
2.05	Type de matériel / Material spec.	Low temp CS ASTM A333 Gr6
2.06	Tuyaux isolés aux bons endroits / Blanks installed at the correct locations	☒
2.07	Équipements isolés de la tuyauterie / Equipment isolated from piping	☒
2.08	Supports à ressorts bloqués / Spring supports blocked	☒
2.09	Filtres temporaires installés / Temporary strainers installed	☒
2.10	Valves anti-retour maintenues en positions ouvertes / Check valves locked open	☒
2.11	Drains et événements installés / Drains and vents installed	☒
2.12	Dispositif d'expansion thermique en place / Thermal expansion relief installed	☒
2.13	Lavage initial des lignes et vidange fait / Initial flushing and cleaning	☒

TESTS / TESTS

3.01	Test de pression / Pressure test	
3.02	Est-ce que les autorités locales doivent assister au test? / Are local authority required to witness test?	Oui / Yes ☐ Oui/Non / Yes/No
3.05	Pneumatique / Pneumatic	☒
3.06	Hydrostatique / Hydrostatic	☐
3.07	Pression du test / Specified test pressure	50 PSI
3.08	Durée du test / Specified duration	60 minutes
3.09	Toute la ligne ? / Entire line?	Yes
3.10	Décrire la section / Describe section	See sketch below
3.11		
3.12		
3.13		
3.14		

3.15	Purge / Purge	Rinçage / Flush	Traitement / Treatment
3.16	Air / Air ☒	Eau chaude / Hot water ☐	Saumure / Pickling ☐
3.17	Azote / Nitrogen ☐	Eau froide / Cold water ☐	Stérilisation / Sterilization ☐
3.18	Autre / Other ☐	Autre / Other ☐	Air only ☐
3.19	Premier essai ou répétition? / First attempt or repeat test?	1 ☐	2 ☐
3.20	Pompe de test et manomètres en place / Test pump and gauges installed	☒	

3.21	Date de début / Start date	7h	Heure de début / Time start	16h
------	----------------------------	----	-----------------------------	-----

3.22	Remplir la ligne / Line filled	☐
3.23	Purger l'air de la ligne / Air purged from line	☐
3.24	Fermer les événements / Vents closed	☒
3.25	Fluide de test à moins de 50°C / Test fluid at less than 50°C	☒

Secteur / Sector :	116- Fuel Farm Itivia	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-13
Description / Description:	Fuel loading piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-019

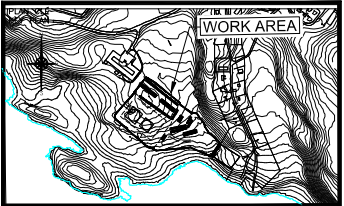
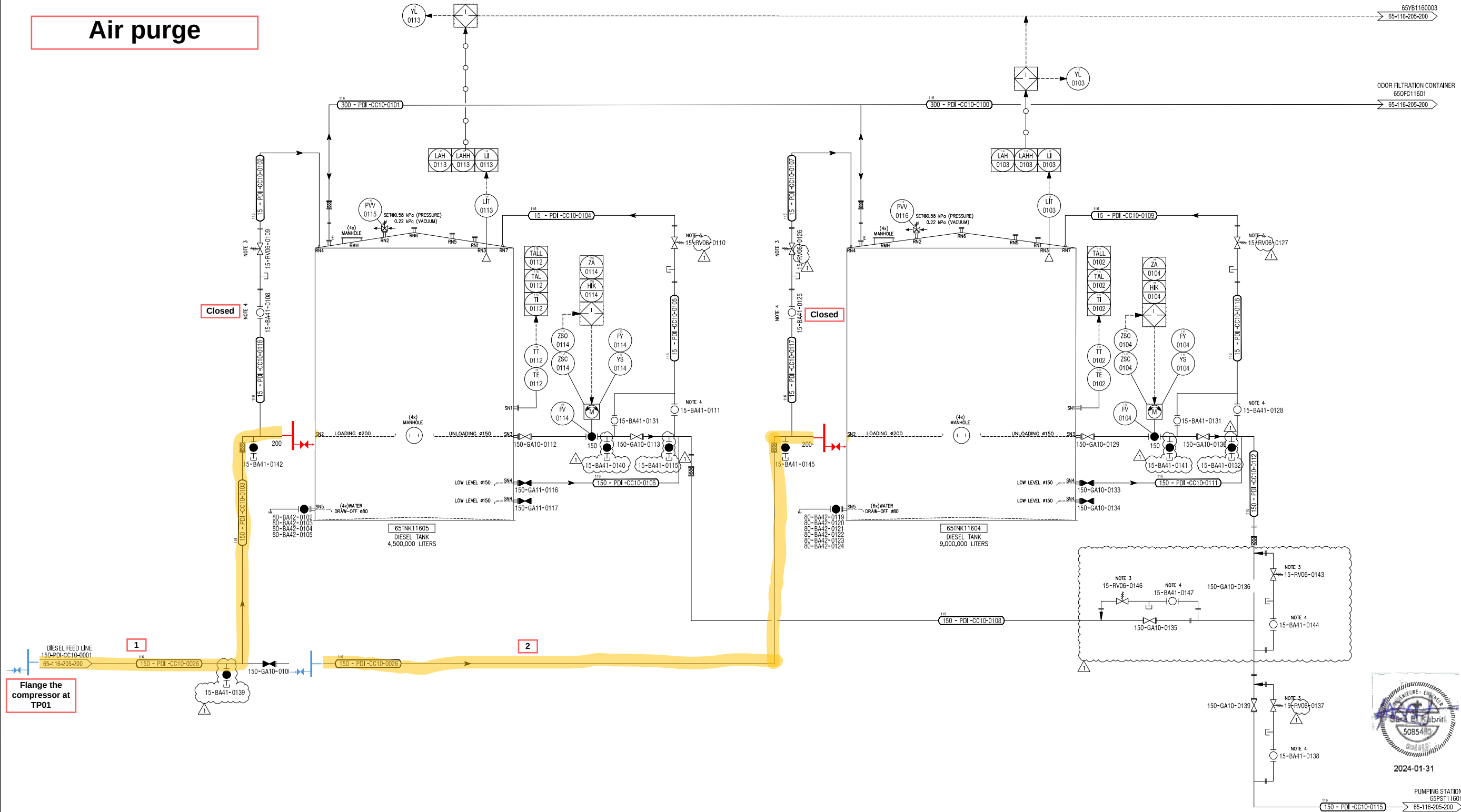
	Gradient / Grade	Pression mesurée / Measured pressure	Température / Temperature	Heure d'observation / Time of observation	
3.26					Fuite détectée, commentaires / Leakage, comments
3.27	0%				
3.28	25%	15 psi	5 °C	7h00	Minor leak on valve 15-BA41-0140 - Fixed
3.29	50%	25 psi	5 °C	7h30	Ok
3.3	75%	35 psi	5 °C	8h00	Ok
3.31	100%	50 psi	5 °C	9h00	Passed
3.32					
3.33					
3.34					
3.35					

3.36	Test de pression complété / Pressure test completed	
3.37	Ligne lavée et vidée / Line flushed and cleaned	
3.38	Vérifier les points bas dans la ligne / Empty low points of line	
3.39	Retirer les disques d'isolation / Remove blanks and plugs	
3.4	Équipements et valves reconnectés / Equipments and valves reinstalled	
3.41	Stériliser / Sterilization	
3.42	Saumure et passivation / Pickle and passivation	
3.43	Date de fin / Stop date	2024-09-24
	Heure de fin / Time stop	16

SIGNATURES / SIGNATURES (VPO) (POV) (TEST)

Exécutant Construction / Construction Executor	Date	Exécutant Comm. Team / Comm.Team Executor	Date
			

Air purge



Ref.: 711-28920

NOTES GÉNÉRALES / GENERAL NOTES

- EQUIPMENTS' NUMBERING AS PER AEM STANDARDS. DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
- ALL DRAINS TO BE INSTALLED HORIZONTALLY.
- PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psig).
- LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERS SANS L'AUTORISATION ÉCRITE D'AGNICO EAGLE LTD. L'INFORMATION HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE KEPT SECRET AND NOT REVEALED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM AGNICO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207



REV	DATE	DESCRIPTION	PAB/REV	APP.	CLIENT
1	2024-01-31	ISSUED FOR CONSTRUCTION (6537)	L.K.	S.E.	
0	2023-12-04	ISSUED FOR CONSTRUCTION (6537)	C.D.	N.G.	
A	2023-10-20	ISSUED FOR COMMENTS	S.E.	P.P.	

REVISIONS

Signature	Sara Elkabriti	Date	2024-01-31
Signature	Sara Elkabriti	Date	2024-01-31
Signature	Sara Elkabriti	Date	2024-01-31

TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4.5ML)

DESSINÉ PAR DRAWN BY	CAROLE DESAULNIERS	DATE	2023-08-21
VÉRIFIÉ PAR CHECKED BY	PETER PASTVA, Eng	DATE	2023-08-21
APPROUVÉ PAR APPROVED BY	SARA ELKABRITI, P. Eng.	DATE	2023-08-21

ÉCHELLE SCALE	NONE	DATE	2023-08-21
------------------	------	------	------------

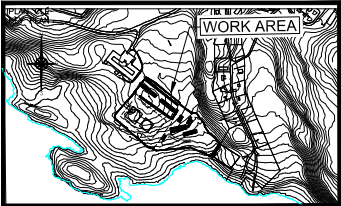
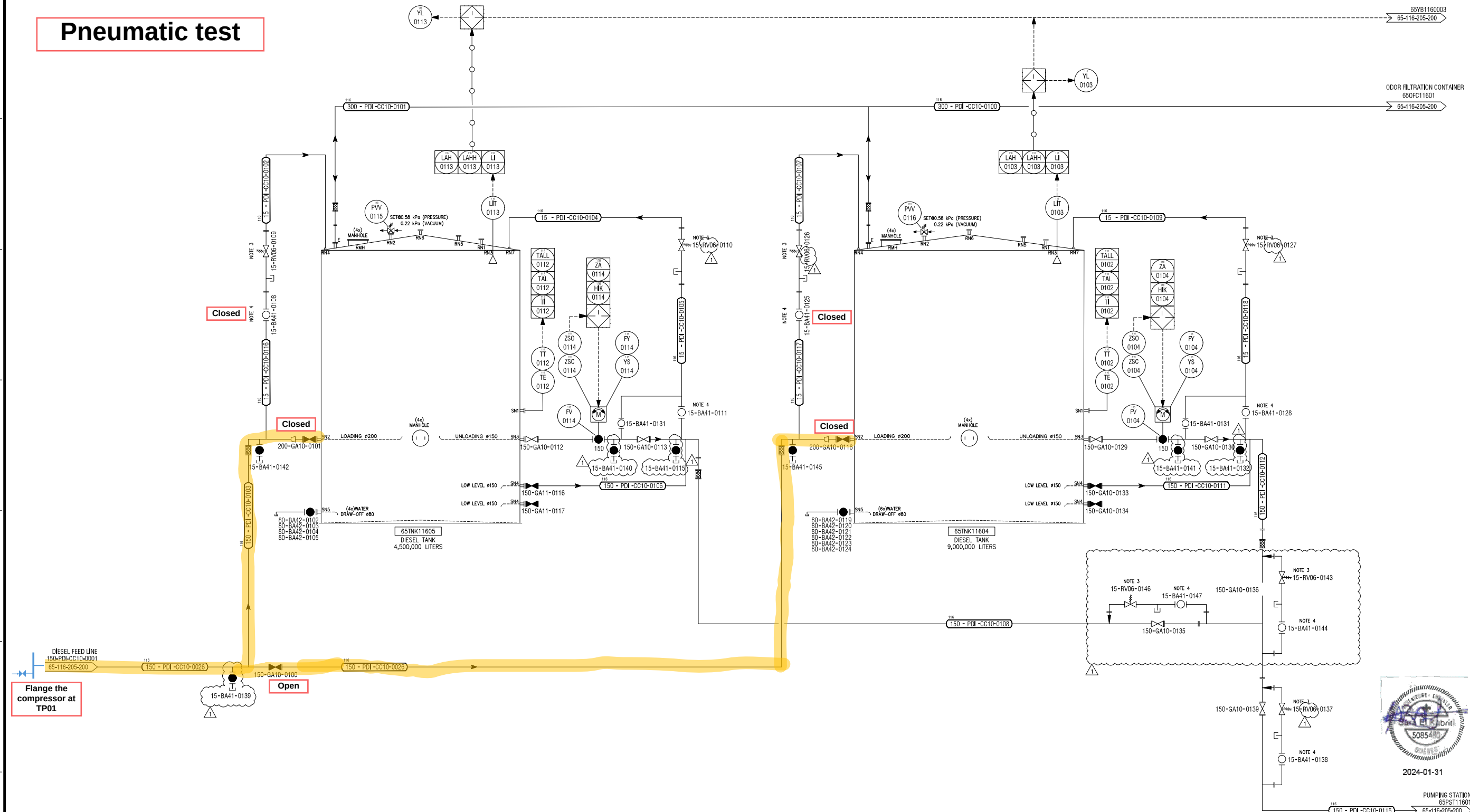
NO. DESSIN DRAWING NO.	65-116-205-201
---------------------------	----------------

NO. PROJET PROJECT NO.	6537	REVISION	1	FEUILLE / SHEET	1 / 1
---------------------------	------	----------	---	-----------------	-------



POUR CONSTRUCTION
FOR CONSTRUCTION
DATE : 2024-01-31

Pneumatic test



Ref.: 711-28920

NOTES GÉNÉRALES / GENERAL NOTES

- EQUIPMENTS' NUMBERING AS PER AEM STANDARDS. DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
- ALL DRAINS TO BE INSTALLED HORIZONTALLY.
- PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psig).
- LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERCE PARTIE SANS L'AUTORISATION ÉCRITE D'AGNICO EAGLE LTD. L'INFORMATION HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE KEPT SECRET AND NOT REVEALED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM AGNICO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207



REV.	DATE	DESCRIPTION	PAB/REV	APP.	CLIENT
1	2024-01-31	ISSUED FOR CONSTRUCTION (6537)	L.K.	S.E.	
0	2023-12-04	ISSUED FOR CONSTRUCTION (6537)	C.D.	N.G.	
A	2023-10-20	ISSUED FOR COMMENTS	S.E.	P.P.	

REVISIONS

Signature	Sara Elkabriti	Date	2024-01-31
Signature	Sara Elkabriti	Date	2024-01-31
Signature	Sara Elkabriti	Date	2024-01-31

TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4.5ML)

DESSINÉ PAR DRAWN BY	CAROLE DESAULNIERS	DATE	2023-08-21
VÉRIFIÉ PAR CHECKED BY	PETER PASTVA, Eng	DATE	2023-08-21
APPROUVÉ PAR APPROVED BY	SARA ELKABRITI, P. Eng.	DATE	2023-08-21
ÉCHELLE SCALE	NONE	DATE	2023-08-21
NO. DESSIN DRAWING NO.	65-116-205-201	NO. PROJET PROJECT NO.	6537
REVISION	1	FEUILLE / SHEET	1 / 1



POUR CONSTRUCTION
FOR CONSTRUCTION
DATE : 2024-01-31

FEUILLE DE VÉRIFICATION / INSPECTION SHEET

Tuyauterie / Piping

Secteur / Sector :	116 - Itivia Fuel Farm Tank	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-23
Description / Description:	Fuel unloading piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment:		No Formulaire / Form No :	MEC-POV-018

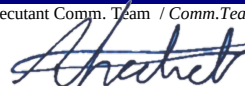
INSPECTION VISUELLE (VPO) / VISUAL INSPECTION (POV)

1.01	Vérification des tag de couleur, toutes du bon type / Tags verification, all of correct type	✓	
1.02	Cadenassage fait et inspection sécuritaire / Pad locking complete and secure inspection conditions	✓	
1.03	Installation selon dessins / Installation as per erection drawings	✓	
1.04	Structures et refort complet et bien boulonné / Support structures complete and boled	✓	
1.05	Sécuriser le périmètre avec les rubans de sécurité / Perimeter taping	✓	
2.02	Tuyaux isolés aux bons endroits / Blanks installed at the correct locations	✓	
2.03	Équipements isolés de la tuyauterie / Equipment isolated from piping	✓	
2.04	Supports à ressorts bloqués / Spring supports blocked	✓	
2.05	Filtres temporaires installés / Temporary strainers installed		
2.06	Valves anti-retour maintenues en positions ouvertes / Check valves locked open		
2.07	Drains et événements installés / Drains and vents installed		
2.08	Dispositif d'expansion thermique en place / Thermal expansion relief installed		
2.09	Lavage initial des lignes et vidange fait / Initial flushing and cleaning	✓	

TESTS / TESTS

3.01	Est-ce que les autorités locales doivent assister au test? / Are local authority required to witness test?		
3.02	Oui (nom) / Yes (name)	✓	On-site AEM supervisor
3.03	Non / No		
3.04	Pompe de test et manomètres en place / Test pump and gauges installed	✓	
3.05	Remplir la ligne / Line filled	✓	
3.06	Purger l'air de la ligne / Air purged from line	✓	
3.07	Fermer les événements / Vents closed	✓	
3.08	Fluide de test à moins de 50°C / Test fluid at less than 50°C	✓	
3.09	Test de pression complété / Pressure test completed	✓	Formulaire / Form MEC-POV-019
3.10	Ligne lavée et vidée / Line flushed and cleaned	✓	
3.11	Vérifier les points bas dans la ligne / Empty low points of line	✓	
3.12	Retirer les disques d'isolation / Remove blanks and plugs	✓	
3.13	Équipements et valves reconnectés / Equipments and valves reinstalled	✓	
3.14	Stériliser / Sterilization	✓	
3.15	Saumure et passivation / Pickle and passivation	✓	

SIGNATURES / SIGNATURES (VPO) (POV) (TEST)

Exécutant Construction / Construction Executor	Date	Exécutant Comm. Team / Comm.Team Executor	Date
			2024-09-25

AEM

Rév.:01

Secteur / Sector :	116- Fuel Farm Itivia	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-13
Description / Description:	Fuel unloading piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-019

INSPECTION VISUELLE (VPO) / VISUAL INSPECTION (POV)

1.01	Vérification des tag de couleur, toutes du bon type / Tags verification, all of correct type	☒
1.02	Cadenassage fait et inspection sécuritaire / Pad locking complete and secure inspection conditions	☒
1.03	Installation selon dessins / Installation as per erection drawings	☒
1.04	Structures et refort complet et bien boulonné / Support structures complete and boled	☒
1.05	Sécuriser le périmètre avec les rubans de sécurité / Perimeter taping	☒

2.01	Identification / Identification	
2.02	Système / System	Fuel unloading
2.03	Circuit / Line	150-PDI-CC10-0106; 150-PDI-CC10-0108;150-PDI-CC10-0115;
2.04	Service / Service	150-PDI-CC10-0111;150-PDI-CC10-0112;
2.05	Type de matériel / Material spec.	Low temp CS ASTM A333 Gr6
2.06	Tuyaux isolés aux bons endroits / Blanks installed at the correct locations	☒
2.07	Équipements isolés de la tuyauterie / Equipment isolated from piping	☒
2.08	Supports à ressorts bloqués / Spring supports blocked	☒
2.09	Filtres temporaires installés / Temporary strainers installed	☒
2.10	Valves anti-retour maintenues en positions ouvertes / Check valves locked open	☒
2.11	Drains et événements installés / Drains and vents installed	☒
2.12	Dispositif d'expansion thermique en place / Thermal expansion relief installed	☒
2.13	Lavage initial des lignes et vidange fait / Initial flushing and cleaning	☒

TESTS / TESTS

3.01	Test de pression / Pressure test	
3.02	Est-ce que les autorités locales doivent assister au test? / Are local authority required to witness test?	Oui / Yes ☐ Oui/Non / Yes/No
3.05	Pneumatique / Pneumatic	☒
3.06	Hydrostatique / Hydrostatic	☐
3.07	Pression du test / Specified test pressure	50 PSI
3.08	Durée du test / Specified duration	60 minutes
3.09	Toute la ligne ? / Entire line?	Yes
3.10	Décrire la section / Describe section	See sketch below
3.11		
3.12		
3.13		
3.14		

3.15	Purge / Purge	Rinçage / Flush	Traitement / Treatment
3.16	Air / Air ☒	Eau chaude / Hot water ☐	Saumure / Pickling ☐
3.17	Azote / Nitrogen ☐	Eau froide / Cold water ☐	Stérilisation / Sterilization ☐
3.18	Autre / Other ☐	Autre / Other ☐	Air only ☐
3.19	Premier essai ou répétition? / First attempt or repeat test?	1 ☐	2 ☐
3.20	Pompe de test et manomètres en place / Test pump and gauges installed	☒	

3.21	Date de début / Start date	7h	Heure de début / Time start	16h
------	-----------------------------------	----	------------------------------------	-----

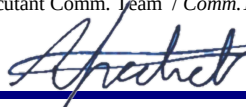
3.22	Remplir la ligne / Line filled	☐
3.23	Purger l'air de la ligne / Air purged from line	☐
3.24	Fermer les événements / Vents closed	☒
3.25	Fluide de test à moins de 50°C / Test fluid at less than 50°C	☒

Secteur / Sector :	116- Fuel Farm Itivia	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-13
Description / Description:	Fuel unloading piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-019

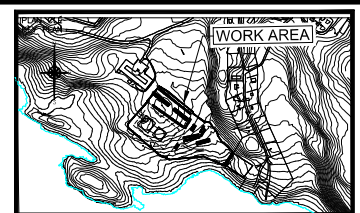
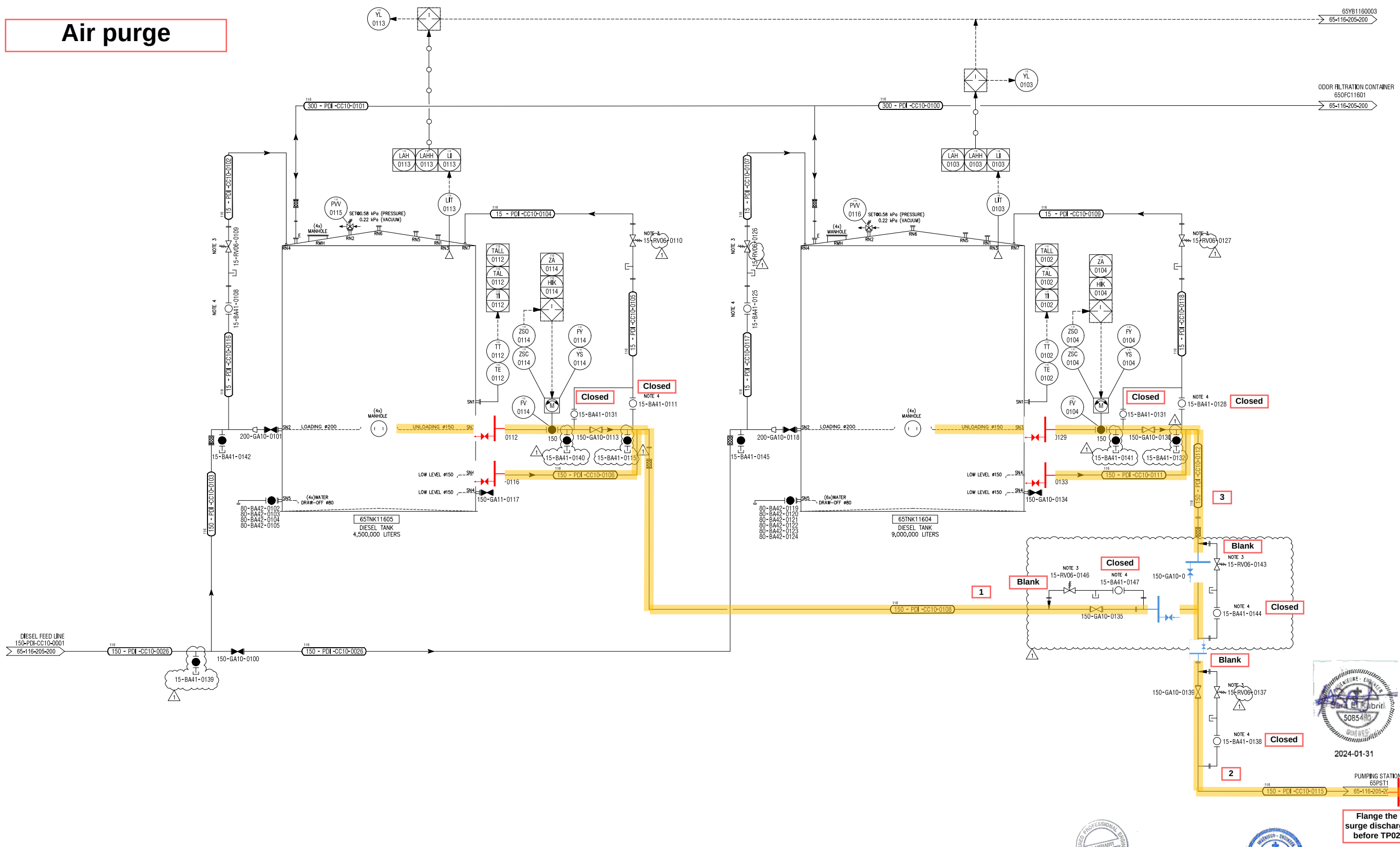
	Gradient / Grade	Pression mesurée / Measured pressure	Température / Temperature	Heure d'observation / Time of observation	
3.26					Fuite détectée, commentaires / Leakage, comments
3.27	0%				
3.28	25%	15 psi	5 °C	7h00	Minor leak on valve 15-BA41-0140 - Fixed
3.29	50%	25 psi	5 °C	7h30	Ok
3.3	75%	35 psi	5 °C	8h00	Ok
3.31	100%	50 psi	5 °C	9h00	Passed
3.32					
3.33					
3.34					
3.35					

3.36	Test de pression complété / Pressure test completed	
3.37	Ligne lavée et vidée / Line flushed and cleaned	
3.38	Vérifier les points bas dans la ligne / Empty low points of line	
3.39	Retirer les disques d'isolation / Remove blanks and plugs	
3.4	Équipements et valves reconnectés / Equipments and valves reinstalled	
3.41	Stériliser / Sterilization	
3.42	Saumure et passivation / Pickle and passivation	
3.43	Date de fin / Stop date	2024-09-24
	Heure de fin / Time stop	16

SIGNATURES / SIGNATURES (VPO) (POV) (TEST)

Exécutant Construction / Construction Executor	Date	Exécutant Comm. Team / Comm. Team Executor	Date
			

Air purge



- NOTES GÉNÉRALES / GENERAL NOTES
- EQUIPMENTS' NUMBERING AS PER AEM STANDARDS. DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
 - ALL DRAINS TO BE INSTALLED HORIZONTALLY.
 - PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psig).
 - LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERS SANS L'AUTORISATION ÉCRITE D'AGNICO EAGLE LTD. L'INFORMATION HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE KEPT SECRET AND NOT REVEALED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM AGNICO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS		
TITRE / TITLE	#	DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206	
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207	

AGNICO EAGLE			
1	2024-01-31	ISSUED FOR CONSTRUCTION (6537)	L.K. S.E.
0	2023-12-04	ISSUED FOR CONSTRUCTION (6537)	C.D. N.G.
A	2023-10-20	ISSUED FOR COMMENTS	S.E. P.P.
REV.	DATE	DESCRIPTION	PAB/REV APP. CLIENT

PERMIT TO PRACTICE
TETRA TECH OE INC.
Signature: Sara Elkabriti
Date: 2024-01-31
PERMIT NUMBER: P 1029
NTNU Association of Professional Engineers and Geoscientists
2024-01-31

TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4,5ML)

DESSINÉ PAR DRAWN BY	CAROLE DESAULNIERS	DATE 2023-08-21
VÉRIFIÉ PAR CHECKED BY	PETER PASTVA, Eng	2023-08-21
APPROUVÉ PAR APPROVED BY	SARA ELKABRITI, P. Eng.	2023-08-21
ÉCHELLE SCALE	NONE	DATE 2023-08-21
NO. DESSIN DRAWING NO.	65-116-205-201	
NO. PROJET PROJECT NO.	6537	REVISION FEUILLE / SHEET 1 / 1

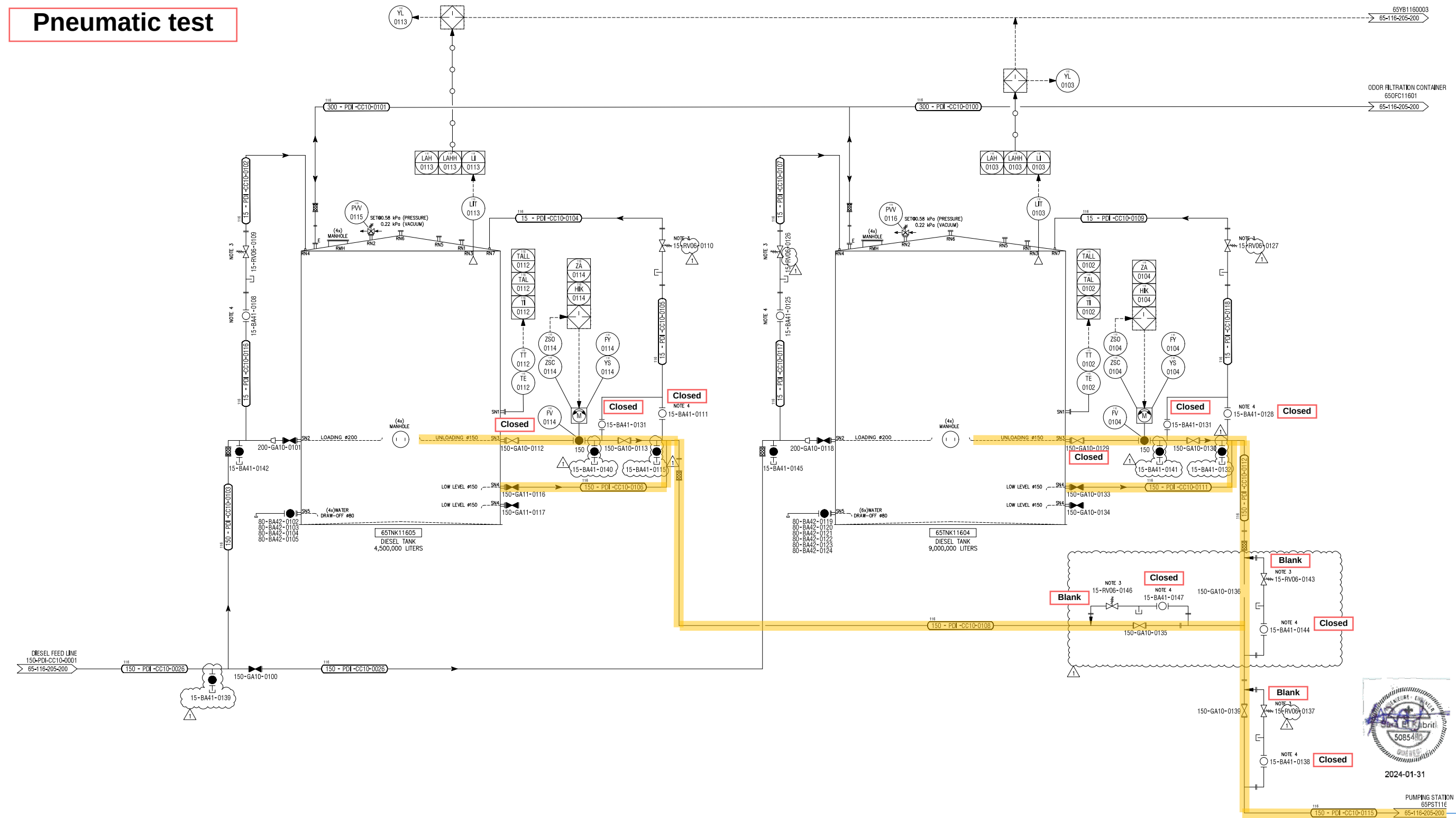
POUR CONSTRUCTION
FOR CONSTRUCTION
DATE : 2024-01-31

REGISTERED PROFESSIONAL ENGINEER
Mustapha Merabti
132016
#L23229

REGISTERED PROFESSIONAL ENGINEER
Mustapha Merabti
132016
REV 1 Instrumentation



Pneumatic test



Ref.: 711-28920

NOTES GÉNÉRALES / GENERAL NOTES

- EQUIPMENTS' NUMBERING AS PER AEM STANDARDS. DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
- ALL DRAINS TO BE INSTALLED HORIZONTALLY.
- PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psi).
- LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERCE PARTIE SANS L'AUTORISATION ÉCRITE D'AGNICO EAGLE LTD. L'INFORMATION HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE KEPT SECRET AND NOT REVEALED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM AGNICO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207



REV.	DATE	DESCRIPTION	PAV/REV	APP.	CLIENT
1	2024-01-31	ISSUED FOR CONSTRUCTION (6537)	L.K.	S.E.	
0	2023-12-04	ISSUED FOR CONSTRUCTION (6537)	C.D.	N.G.	
A	2023-10-20	ISSUED FOR COMMENTS	S.E.	P.P.	

REVISIONS

Signature	Sara Elkabriti	Date	2024-01-31
PERMIT TO PRACTICE	TETRA TECH OE INC.	PERMIT NUMBER: P 1029	NTNU Association of Professional Engineers and Geoscientists
Signature	Sara Elkabriti	Date	2024-01-31

AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4,5ML)

DESSINÉ PAR DRAWN BY	CAROLE DESAULNIERS	DATE	2023-08-21
VÉRIFIÉ PAR CHECKED BY	PETER PASTVA, Eng	DATE	2023-08-21
APPROUVÉ PAR APPROVED BY	SARA ELKABRITI, P. Eng.	DATE	2023-08-21
ÉCHELLE SCALE	NONE	DATE	2023-08-21
NO. DESSIN DRAWING NO.	65-116-205-201	NO. PROJET PROJECT NO.	6537
REVISION	1	FEUILLE / SHEET	1 / 1



Tuyauterie / Piping

Secteur / Sector :	116 - Itivia Fuel Farm Tank	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-23
Description / Description:	Pressure relieved fuel piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment:		No Formulaire / Form No :	MEC-POV-018

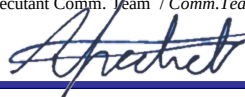
INSPECTION VISUELLE (VPO) / VISUAL INSPECTION (POV)

1.01	Vérification des tag de couleur, toutes du bon type / Tags verification, all of correct type	✓	
1.02	Cadenassage fait et inspection sécuritaire / Pad locking complete and secure inspection conditions	✓	
1.03	Installation selon dessins / Installation as per erection drawings	✓	
1.04	Structures et refort complet et bien boulonné / Support structures complete and boled	✓	
1.05	Sécuriser le périmètre avec les rubans de sécurité / Perimeter taping	✓	
2.02	Tuyaux isolés aux bons endroits / Blanks installed at the correct locations	✓	
2.03	Équipements isolés de la tuyauterie / Equipment isolated from piping	✓	
2.04	Supports à ressorts bloqués / Spring supports blocked	✓	
2.05	Filtres temporaires installés / Temporary strainers installed		
2.06	Valves anti-retour maintenues en positions ouvertes / Check valves locked open		
2.07	Drains et événements installés / Drains and vents installed		
2.08	Dispositif d'expansion thermique en place / Thermal expansion relief installed		
2.09	Lavage initial des lignes et vidange fait / Initial flushing and cleaning	✓	

TESTS / TESTS

3.01	Est-ce que les autorités locales doivent assister au test? / Are local authority required to witness test?		
3.02	Oui (nom) / Yes (name)	✓	On-site AEM supervisor
3.03	Non / No		
3.04	Pompe de test et manomètres en place / Test pump and gauges installed	✓	
3.05	Remplir la ligne / Line filled	✓	
3.06	Purger l'air de la ligne / Air purged from line	✓	
3.07	Fermer les événements / Vents closed	✓	
3.08	Fluide de test à moins de 50°C / Test fluid at less than 50°C	✓	
3.09	Test de pression complété / Pressure test completed	✓	Formulaire / Form MEC-POV-019
3.10	Ligne lavée et vidée / Line flushed and cleaned	✓	
3.11	Vérifier les points bas dans la ligne / Empty low points of line	✓	
3.12	Retirer les disques d'isolation / Remove blanks and plugs	✓	
3.13	Équipements et valves reconnectés / Equipments and valves reinstalled	✓	
3.14	Stériliser / Sterilization	✓	
3.15	Saumure et passivation / Pickle and passivation	✓	

SIGNATURES / SIGNATURES (VPO) (POV) (TEST)

Exécutant Construction / Construction Executor	Date	Exécutant Comm. Team / Comm.Team Executor	Date
			2024-09-25

AEM

Rév.:01

Secteur / Sector :	116- Fuel Farm Itivia	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-13
Description / Description:	Pressure relieved fuel piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-019

INSPECTION VISUELLE (VPO) / VISUAL INSPECTION (POV)

1.01	Vérification des tag de couleur, toutes du bon type / Tags verification, all of correct type	☒
1.02	Cadenassage fait et inspection sécuritaire / Pad locking complete and secure inspection conditions	☒
1.03	Installation selon dessins / Installation as per erection drawings	☒
1.04	Structures et refort complet et bien boulonné / Support structures complete and boled	☒
1.05	Sécuriser le périmètre avec les rubans de sécurité / Perimeter taping	☒

2.01	Identification / Identification	
2.02	Système / System	Pressure relieved fuel (loading/unloading)
2.03	Circuit / Line	See list below
2.04	Service / Service	
2.05	Type de matériel / Material spec.	Low temp CS ASTM A333 Gr6
2.06	Tuyaux isolés aux bons endroits / Blanks installed at the correct locations	☒
2.07	Équipements isolés de la tuyauterie / Equipment isolated from piping	☒
2.08	Supports à ressorts bloqués / Spring supports blocked	☒
2.09	Filtres temporaires installés / Temporary strainers installed	☒
2.10	Valves anti-retour maintenues en positions ouvertes / Check valves locked open	☒
2.11	Drains et événements installés / Drains and vents installed	☒
2.12	Dispositif d'expansion thermique en place / Thermal expansion relief installed	☒
2.13	Lavage initial des lignes et vidange fait / Initial flushing and cleaning	☒

TESTS / TESTS

3.01	Test de pression / Pressure test	
3.02	Est-ce que les autorités locales doivent assister au test? / Are local authority required to witness test?	Oui / Yes ☐ Oui/Non / Yes/No ☐
3.05	Pneumatique / Pneumatic	☒
3.06	Hydrostatique / Hydrostatic	☐
3.07	Pression du test / Specified test pressure	50 PSI
3.08	Durée du test / Specified duration	60 minutes
3.09	Toute la ligne ? / Entire line?	Yes ☐
3.10	Décrire la section / Describe section	See sketch below
3.11		
3.12		
3.13		
3.14		

3.15	Purge / Purge	Rinçage / Flush	Traitement / Treatment
3.16	Air / Air ☒	Eau chaude / Hot water ☐	Saumure / Pickling ☐
3.17	Azote / Nitrogen ☐	Eau froide / Cold water ☐	Stérilisation / Sterilization ☐
3.18	Autre / Other ☐	Autre / Other ☐	Air only ☐
3.19	Premier essai ou répétition? / First attempt or repeat test?	1 ☐	2 ☐
3.20	Pompe de test et manomètres en place / Test pump and gauges installed	☒	

3.21	Date de début / Start date	7h	Heure de début / Time start	16h
------	----------------------------	----	-----------------------------	-----

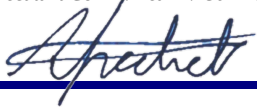
3.22	Remplir la ligne / Line filled	☐
3.23	Purger l'air de la ligne / Air purged from line	☐
3.24	Fermer les événements / Vents closed	☒
3.25	Fluide de test à moins de 50°C / Test fluid at less than 50°C	☒

Secteur / Sector :	116- Fuel Farm Itivia	Préparé par / Prepared by :	Arnaud Fréchet
Équipement / Equipment:	4.5M & 9M Diesel tank	Date :	2024-06-13
Description / Description:	Pressure relieved fuel piping	P&ID #	65-116-205-201
Sous-Équipement / Sub-Equipment :		No Formulaire / Form No :	MEC-POV-019

	Gradient / Grade	Pression mesurée / Measured pressure	Température / Temperature	Heure d'observation / Time of observation	
3.26					Fuite détectée, commentaires / Leakage, comments
3.27	0%				
3.28	25%	15 psi	5 °C	7h00	Minor leak on valve 15-BA41-0140 - Fixed
3.29	50%	25 psi	5 °C	7h30	Ok
3.3	75%	35 psi	5 °C	8h00	Ok
3.31	100%	50 psi	5 °C	9h00	Passed
3.32					
3.33					
3.34					
3.35					

3.36	Test de pression complété / Pressure test completed	
3.37	Ligne lavée et vidée / Line flushed and cleaned	
3.38	Vérifier les points bas dans la ligne / Empty low points of line	
3.39	Retirer les disques d'isolation / Remove blanks and plugs	
3.4	Équipements et valves reconnectés / Equipments and valves reinstalled	
3.41	Stériliser / Sterilization	
3.42	Saumure et passivation / Pickle and passivation	
3.43	Date de fin / Stop date	2024-09-24
	Heure de fin / Time stop	16

SIGNATURES / SIGNATURES (VPO) (POV) (TEST)

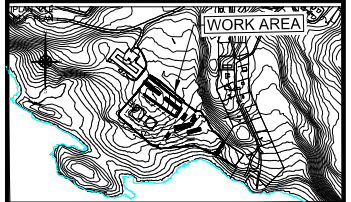
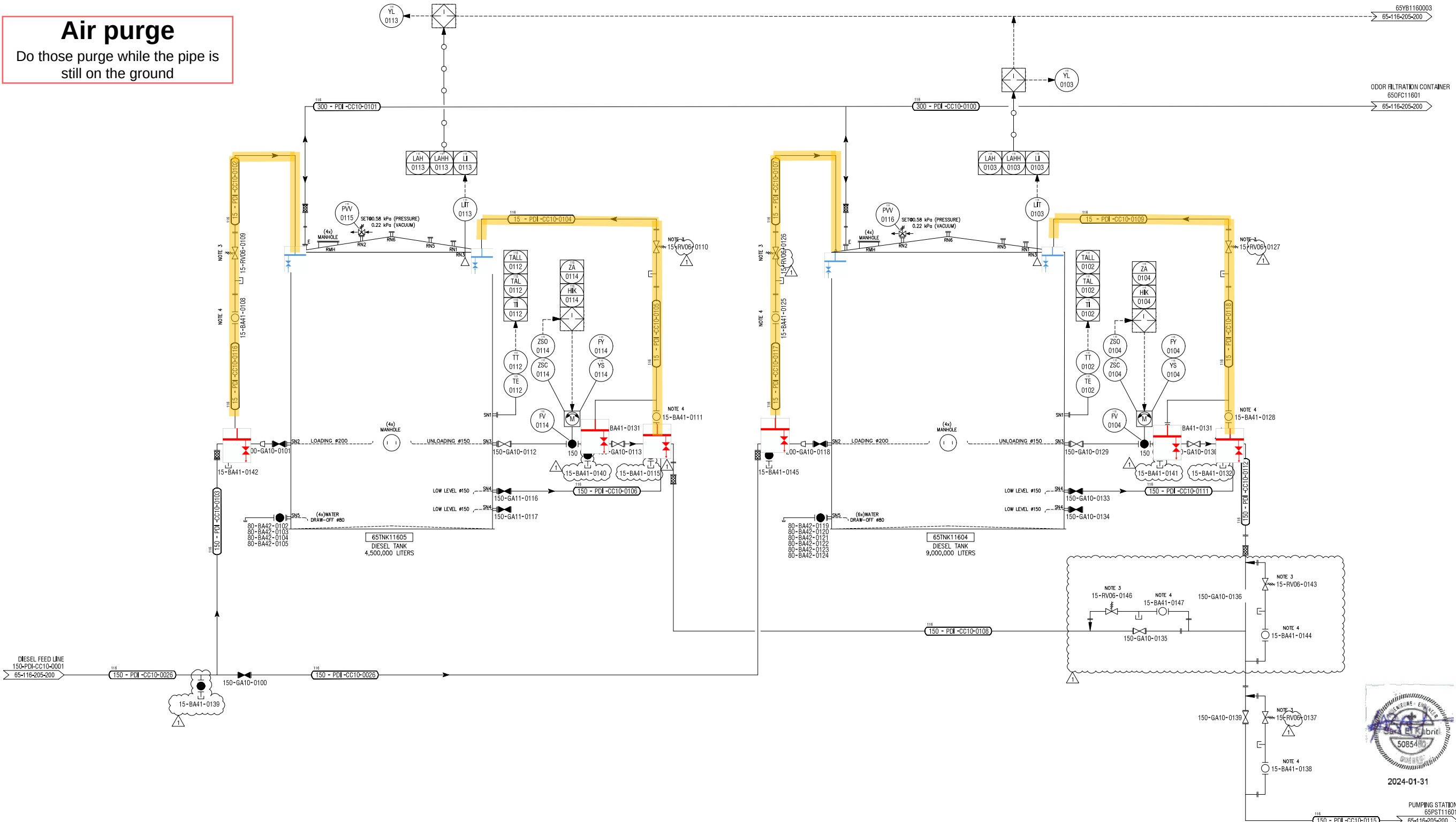
Exécutant Construction / Construction Executor	Date	Exécutant Comm. Team / Comm. Team Executor	Date
			

	Meliadine 6500T Expansion		Prepared by	Verified by	Approved by	Revision	Date	Description
			Cid kacoui	PaulMarie Lombe		RA	2023/11/08	Issued for comments
	Piping Line List		Cid kacoui	PaulMarie Lombe		R0	12/13/2023	Issued for construction
	6537-C-265-004-PPL-001							

LEGEND:
WI: WELDING INSPECTION
MP: MAGNETIC PARTICULES
DP: DYE PENETRANT
HC: HEAT CONSERVATION
PP: PERSONAL PROTECTION
FP: FREEZE PROTECTION
HT: HEAT TRACE

PROJECT	SEALIFT YEAR	TAG	AREA OF ORIGIN	SIZE (MM)	SERVICE	LINE SPEC.	SEQUENTIAL NUMBER	DESIGN CODE	MATERIAL	GRADE	SCHEDULE	OPER PRESSURE (KPAg)	OPER TEMP (°C)	MAX DESIGN PRESS (PUMP) (KPAg)	DESIGN TEMP (°C)	FLOWRATE M3/H - NOMINAL	TEST PRESSURE (KPAg)	TEST MEDIUM	CLEANING	NDT WI (TYPE)	NDT WI (%)	POST/PRE WELD HEAT TREATMENT (Y/N)	INSULATION	SERVICE DEFINITION	FROM EQUIPMENT	TO EQUIPMENT	P&ID	LINE REVISION	GENERAL COMMENTS
6537	2023	15-PDI-CC10-0102	116	15	PDI	CC10	0102	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	113	Ambient	285	65	250	345	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	15-PDI-CC10-0116	65TNK11605	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0105	116	15	PDI	CC10	0105	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	147	Ambient	319	65	250	351	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	150-PDI-CC10-0108	15-PDI-CC10-0104	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0107	116	15	PDI	CC10	0107	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	147	Ambient	319	65	250	351	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	15-PDI-CC10-0117	65TNK11604	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0109	116	15	PDI	CC10	0109	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	113	Ambient	285	65	250	345	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	15-PDI-CC10-0118	65TNK11604	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0104	116	15	PDI	CC10	0104	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	147	Ambient	319	65	250	351	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	15-PDI-CC10-0105	65TNK11605	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0116	116	15	PDI	CC10	0116	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	147	Ambient	319	65	250	351	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	150-PDI-CC10-0103	15-PDI-CC10-0102	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0117	116	15	PDI	CC10	0117	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	147	Ambient	319	65	250	351	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	150-PDI-CC10-0026	15-PDI-CC10-0107	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag
6537	2023	15-PDI-CC10-0118	116	15	PDI	CC10	0118	ASME B31.3	LOW TEMP CS	ASTM A333 GR 6	80	147	Ambient	319	65	250	351	Pneumatic	Air Blowing	ultrasound	5%	N	N	Process - Diesel	150-PDI-CC10-0112	15-PDI-CC10-0109	65-116-205-201	R0	Max design pressure= operating pressure +172 kPag

Air purge
Do those purge while the pipe is still on the ground



- NOTES GÉNÉRALES / GENERAL NOTES**
- EQUIPMENTS NUMBERING AS PER AEM STANDARDS. DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
 - ALL DRAINS TO BE INSTALLED HORIZONTALLY.
 - PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psig).
 - LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF AGNICO EAGLE LTD. AND MUST BE KEPT UNDER LOCK AND KEY. NO REPRODUCTION OR DISSEMINATION OF THIS INFORMATION IS PERMITTED WITHOUT WRITTEN PERMISSION. ANY VIOLATION OF THIS POLICY WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITLE / TITRE	# DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207

AGNICO EAGLE

REV	DATE	DESCRIPTION	PREP	APP	CLIENT
1	2024-01-31	ISSUED FOR CONSTRUCTION (6537)	L.K.	S.E.	
0	2023-12-04	ISSUED FOR CONSTRUCTION (6537)	C.D.	N.G.	
A	2023-10-20	ISSUED FOR COMMENTS	S.E.	P.P.	

PERMIT TO PRACTICE
TETRA TECH OE INC.
Signature: *Sara Elkabriti*
Date: 2024-01-31
PERMIT NUMBER: P 1029
NTNU Association of Professional Engineers and Geoscientists

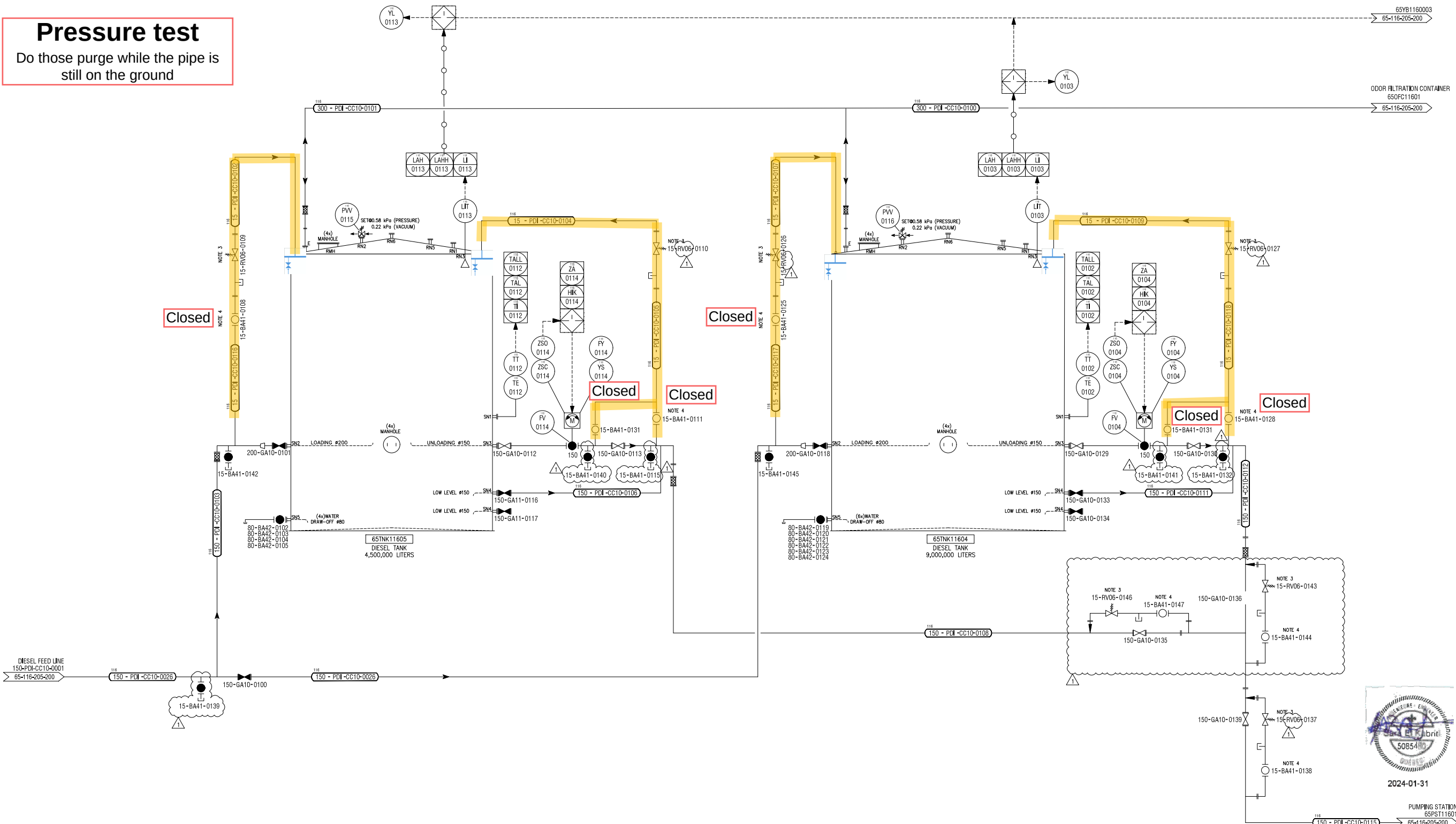
TITLE / TITRE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4,5ML)

DESSINÉ PAR DRAWN BY	CAROLE DESAULNIERS	DATE	2023-08-21
VÉRIFIÉ PAR CHECKED BY	PETER PASTVA, Eng		2023-08-21
APPROUVÉ PAR APPROVED BY	SARA ELKABRITI, P. Eng.		2023-08-21
ÉCHELLE SCALE	NONE	DATE	2023-08-21
NO. DESSIN DRAWING NO.	65-116-205-201		
NO. PROJET PROJECT NO.	6537	REVISION	1 / 1



POUR CONSTRUCTION
FOR CONSTRUCTION
DATE : 2024-01-31

Pressure test
Do those purge while the pipe is still on the ground



Ref.: 711-28920

NOTES GÉNÉRALES / GENERAL NOTES

- EQUIPMENTS' NUMBERING AS PER AEM STANDARDS. DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
- ALL DRAINS TO BE INSTALLED HORIZONTALLY.
- PRESSURE RELIEF VALVE SPRING ADJUSTED TO 69kPa (10psi).
- LOCKED OPEN (SEE DRAWING 65-116-270-002 FOR TYPICAL ARRANGEMENT)

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERS SANS L'AUTORISATION ÉCRITE D'AGNICO EAGLE LTD. L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. L'INFORMATION CI-CONTENUE NE DOIT ÊTRE RÉVÉLÉE À UN TIERS SANS L'AUTORISATION ÉCRITE D'AGNICO EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 1	65-500-205-206
PIPING AND INSTRUMENTATION DIAGRAM LEGEND 2	65-500-205-207



AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAB/REV APP.	CLIENT
1	2024-01-31	ISSUED FOR CONSTRUCTION (6537)	L.K.	S.E.
0	2023-12-04	ISSUED FOR CONSTRUCTION (6537)	C.D.	N.G.
A	2023-10-20	ISSUED FOR COMMENTS	S.E.	P.P.

REVISIONS

PERMIT TO PRACTICE TETRA TECH OE INC.		
Signature: <i>Sara Elkabriti</i>	Date: 2024-01-31	
Date: 2024-01-31		
PERMIT NUMBER: P 1029		
NITMU Association of Professional Engineers and Geoscientists		2024-01-31

TITRE / TITLE
AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL FARM
205 - P&ID
RANKIN INLET FUEL STORAGE
65TNK11604 (9ML) & 65TNK11605 (4,5ML)

DESSINÉ PAR
DRAWING BY
CAROLE DESAULNIERS
DATE
2023-08-21

VERIFIÉ PAR
CHECKED BY
PETER PASTVA, Eng
DATE
2023-08-21

APPROUVÉ PAR
APPROVED BY
SARA ELKABRITI, P. Eng.
DATE
2023-08-21

ÉCHELLE
SCALE
NONE
DATE
2023-08-21

NO. DESSIN
DRAWING NO.
65-116-205-201

NO. PROJET
PROJECT NO.
6537

REVISION
FEUILLE / SHEET
1 / 1



#L23229



REV 1 Instrumentation

POUR CONSTRUCTION
FOR CONSTRUCTION
DATE : 2024-01-31