

**Baffinland Iron Mines LP
Mary River Expansion Project**

**Construction Summary Report: Mary River Tank Farm Piping (2019)
Piping and Electrical**

| | |
|--|-------------------|
| PERMIT TO PRACTICE | |
| HATCH LTD. | |
| Signature | <i>G.A. Peace</i> |
| Date | APRIL 8, 2020 |
| PERMIT NUMBER: P 512 | |
| The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU | |



| | | | | | | | |
|------------|------|---------------------|-------------------|-----------------|-----------------|---------------------|---|
| | | | <i>G.A. Peace</i> | <i>N. Mason</i> | <i>N. Mason</i> | Denton Henkelman | Digitally signed by Denton Henkelman Date: 2020.04.13 13:11:24 -0400 |
| 2020-04-08 | 0 | Approved for Use | G. Peace | N. Mason | N. Mason | D. Henkelman | |
| Date | Rev. | Status | Prepared By | Checked By | Approved By | Approved By | |
| HATCH | | | | | | | Client |

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Mary River Tank Farm Piping E353004-CX001-130-124-0011 Job Book CVR-062

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Appendix D

Map to show Construction in Relation to Lease Boundaries and Water Bodies

1. Facility Description

1.1 Purpose and Design Basis

Baffinland Iron Mines Corporation (Baffinland) recently added a new fuel storage area at the Mary River mine site. A 15 million litre above ground diesel fuel storage tank (TK-005) was constructed along with a containment area to allow future expansion. This tank is in addition to the existing 2 million liters of storage in the previously constructed tank farm at Mary River.

The previously constructed Mary River tank farm consisted of four (4) 500,000 litre above ground diesel fuel storage tanks.

A previous report (H353004-40000-121-066-0002) summarized the new 15 million litre tank, the containment area and any piping required to allow filling of the tank. This current report covers the additional piping, electrical and instrumentation that has been installed.

This work was designed and constructed to the following codes and standards:

- National Building Code of Canada (NBC) 2010.
- National Fire Code of Canada (NFCC) 2010.
- NFPA 30, 2012 Edition, Flammable and Combustible Liquids Code.
- CCME Environmental Code of Practice for Aboveground Storage Tank Systems containing Petroleum Products, 2003.
- ANSI B31.3-2012, Process Piping.
- CSA W47.1-09, Certification of Companies for Fusion Welding of Steel.
- CSA W59-03 (R2008) – Welded Steel Construction (Metal Arc Welding)
- CSA W178.2-08, Certification of Welding Inspectors.

1.2 Location and Base Elevations

The new Mary River Tank Farm is located northeast of the Sallivik Camp on the north side of the Tote Road between northing N7913385 and N7913535, and easting E560953 and E561212. The elevation of the tank farm is 187 masl.

1.3 Geometry and Access

The piping, electrical and instrumentation was constructed as shown on the as-built drawings.

1.4 Earthworks Materials Details

Details of the earthworks are contained in the report for the tank farm and containment area report.

2. Construction Activity Summary

Construction activities for the piping, electrical and instrumentation for the 15 million litre tank started July 10, 2019 and ended on December 16, 2019.

The following summarizes construction activities:

2.1 Piping

- Piping was fabricated and installed from the existing piping at the tank to the location where the future fuel module will be installed and to a point to allow access to additional future tank(s).
- Piping was tested, refer to Appendix B.

2.2 Electrical

- Installed air-craft obstruction lighting.
- Installed stairway lighting (without lens cages protection, as they were not available).
- Ground grid was completed.

2.3 Instrumentation

Tank level radar gauge installed.

3. QA/QC

Quality Assurance (QA) was performed by the Hatch Construction Supervisor during daily audits with the Nuna/ADCO Supervisor during construction. Quality Surveillance Inspection Acceptance and Sign-off Reports were prepared by the Nuna/ADCO Supervisor and signed of by the Hatch Representative.

QA was also performed by the Hatch Construction Supervisor during daily audits with the contract supervisors.

4. Photographic Records



Photo 4-1: Grounding Grid



Photo 4-2: Grounding Grid Installation



Photo 4-3: Pipe Stands

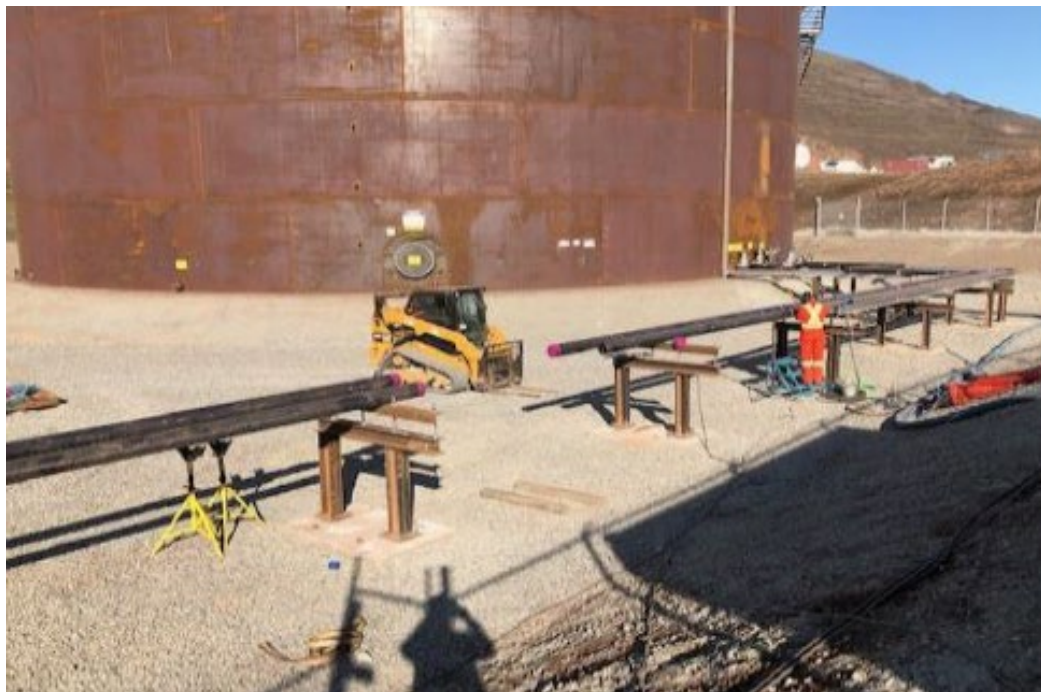


Photo 4-4: Piping Installation

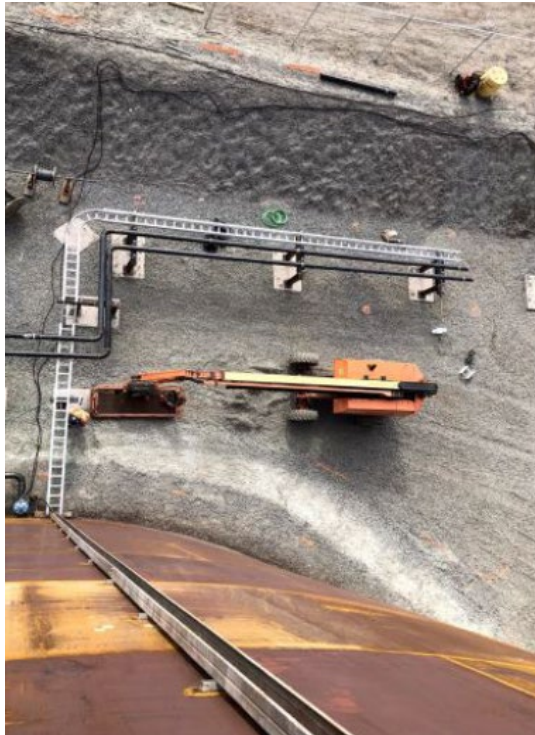


Photo 4-5: Tank 005 Cable Tray Installation

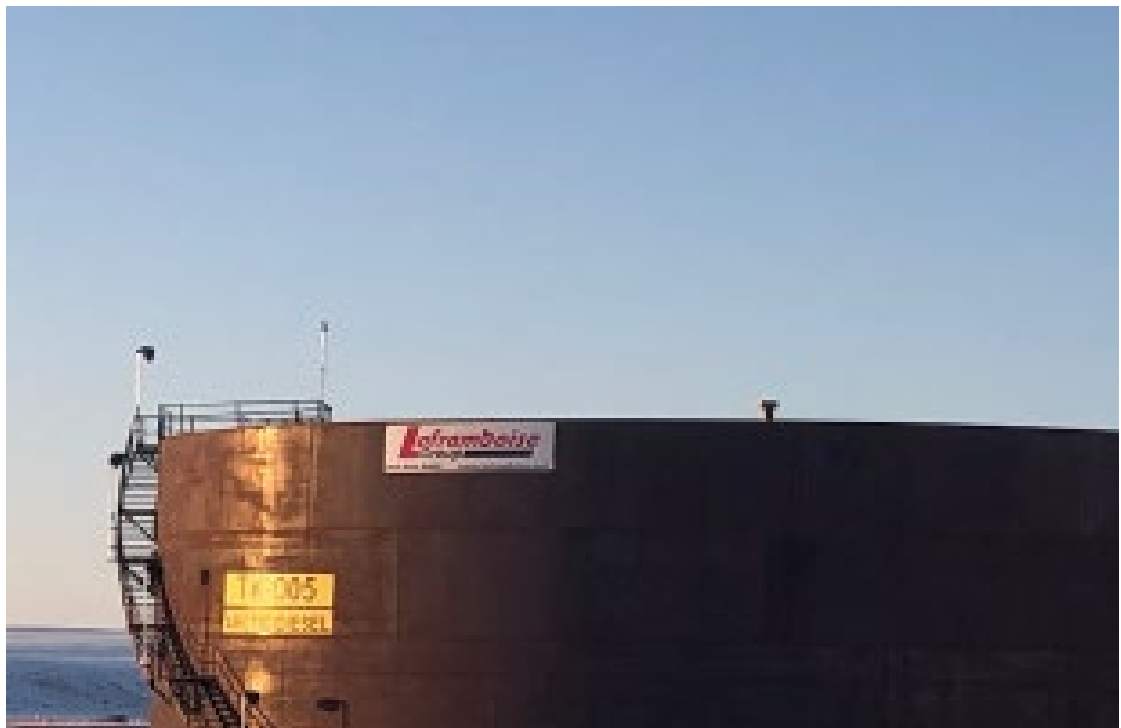


Photo 4-6: Top of Tank showing Obstruction and other Lighting



Photo 4-7: Obstruction light



Photo 4-8: Pipe Spools



Photo 4-9: Pipe Fabrication



Photo 4-10: Valves near Future Dispensing Module Location



Photo 4-11: Radar Level Gauge



Photo 4-12: Dispensing Fuel

5. As-built Drawings

The as-built drawings incorporate contractor red line markups, field instructions, requests for information, field sketches and all other inputs provided by the Engineering, Procurement, Construction Management (EPCM) field team. As-built drawings are attached in Appendix A. These drawings are representative of the final as-built conditions.

Table 5-1: As-built Drawing List

| Drawing Number | Title | Revision |
|--|---|----------|
| H353004-10000-210-276-0001-0001 | Mine Site Additional Tank Farm Storage P&ID | 4 |
| H353004-10000-240-272-0003-0001 | Mine Site Tank Farm Enlarged Piping Plan | 4 |
| H353004-10000-260-272-0002-0001 | Mine Site New Reticulation Layout Layout Drawing | 4 |
| H353004-10000-260-272-0005-0001 | Mine Site Tank Farm Electrical General Arrangement | 2 |
| SM-Redline 190806 MRTF Ground Grid | Mine Site Tank Farm Grounding Redline Asbuilt Aug. 3/19 | |
| CAB 190903 MRTF Tk 5 & 6 Grnd Cables-Rods & Pipe Crossing | Mary River Tank Farm Ground Grid and Rods Asbuilt 2019 | |

6. Field Decisions

The following section describes the field decisions made during construction:

- UT (Ultrasonic Testing) was allowed in lieu of X-Ray for welded pipe joints (RFI 0029).
- Relocation of the thermal relief valve 10000-25-PRV-016 was allowed (RFI 0044).
- Repair procedure for the leak at the socket weld was accepted (RFI 0090).
- Check valve 10000-100-VCH-024 was installed in reverse to allow for gravity draw from TK-005.
- The fuel module was not connected.
- Blinds were installed on the piping at the location of the fuel module along with valves upstream of the blinds.
- Additional support was added for the piping at the fuel module location.
- Cable tray was relocated where it approaches the tank.
- Terminations for the stairway lighting, obstruction lighting and radar gauge are temporary. See as built for location of Junction box.

7. Performance Evaluation

As of the date of this report there have been no adverse observations in operational performance of the work constructed under this scope.

8. Vibration Monitoring and Quarrying Activity

No vibration monitoring was conducted during the construction of this work as it was not deemed necessary based on the scope of activities required for construction. No quarrying activities were conducted for the scope of activities covered in this report.

9. Environmental Monitoring

Baffinland Environment was responsible for environmental monitoring at the site during this work and following-up with construction if there were any reported environmental incidents or non-conformances.

The Spill Contingency Plan (BAF-PH1-830-P16-0036), in conjunction with the Emergency Response Plan (BAF-PH1-830-P16-0007), provides guidance and instructions for first responders and Baffinland Management in the event of a spill event or other emergency such as fire or accident.

The risks to the environment as a result of construction activity for this work would originate from spills from equipment. There were no spills reported.

10. Earthworks Data

There were no earthworks performed under this scope, therefore there is nothing to report for Earthworks data.

11. Unanticipated Observations

A small leak was detected in a socket weld after the tank had been partially filled. The fuel that leaked was captured prior to any fuel reaching the ground in the tank farm. The leak was repaired with no spill to the environment.

12. Surface Monitoring

Not applicable.

13. Required Maintenance

Not applicable.

14. Adaptive Management

Construction changes were managed through issue of Engineering Change Notices (ECNs) for changes to the design and through Requests For Information (RFIs) for changes requested by the Contractor.

For discussion of adaptive management principles and practices applied and their overall effectiveness please refer to the Annual Report to the Nunavut Water Board and the Nunavut Impact Review Board..

15. Concordance with Type “A” Water Licence

Baffinland’s Type A Water Licence, Schedule D, outlines the requirements for Construction Summary/Monitoring Reports. Table 15-1 provides a concordance of this report with the requirements of Schedule D.

Table 15-1: Concordance with Type “A” Water Licence

| Schedule D Item No. | Schedule D Description | Corresponding Section in this Report |
|---------------------|--|--------------------------------------|
| 1a | Description of all infrastructure and facilities designed and constructed to contain, withhold, divert or retain Water and/or Waste; | 1 |
| 1b | A summary of construction activities including photographic records before, during and after construction of the facilities and infrastructure designed to contain, withhold, divert or retain Water and/or Waste; | 2, 3, 4 |
| 1c | As-built drawings and design for facilities and infrastructure, in Item 1(a) of this schedule, designed and constructed to contain, withhold, divert or retain Water and/or Waste; | 5 |
| 1d | Documentation of field decisions that deviate from the original plans and any data used to support or developed facilities and infrastructure to withhold, divert or retain Water and/or Waste; | 6 |
| 1e | A comparison of measured versus predicted performance of infrastructure and facilities; | 7 |
| 1f | Any blast vibration monitoring and control for quarrying activity carried out in close proximity to fish bearing waters; | 8 |
| 1g | Monitoring conducted for sediment and explosives residue release from construction areas; | 9 |
| 1h | Monitoring undertaken in accordance with Part D of the Licence during the Construction Phase of the Project; | 8, 9 |
| 1i | Details confirming that the requirements of the CCME guidance document entitled “Aboveground Storage Tank Systems for Petroleum and Allied Petroleum Products (2003)” have been met by the Licensee; | N/A |
| 1j | Data collected from instrumentation used to monitor earthworks and the interpretation of that data; | 10 |
| 1k | A discussion of any unanticipated observations including changes in risk and mitigation measures implemented to reduce risk during construction; | 11 |
| 1l | An overview of any method including frequency used to monitor deformations, seepage and geothermal responses; | 12 |
| 1m | A summary of maintenance work undertaken as a result of settlement or deformation of dikes and dams; | 13 |
| 1n | A summary of adaptive management principles and practices applied during the relevant phases of the Project and their overall effectiveness. | 14 |

16. Concordance with Commercial Lease Requirements

The following table provides a concordance of this report with the requirements of the Commercial Lease for As-built reporting.

Table 16-1: Concordance for Commercial Lease As-built Requirements

| Component | Minimum Information Requirements | Corresponding Section in this report |
|-----------|--|--------------------------------------|
| 1 | The name and contact information of the person and company responsible for completing the construction, construction monitoring and preparing the As-built Report | Appendix C |
| 2 | The name and contact information of the Baffinland representatives(s) that QIA can contact should it have any questions or comments regarding the As-built Report | Appendix C |
| 3 | An introduction to the infrastructure or facilities including but not limited to the construction background, concept and construction history | 1,2 |
| 4 | Construction records including As-Built drawings signed and stamped by a professional engineer detailing surveys, planar and cross sections that illustrate all designed components. This should be provided in PDF format and if requested the native file (e.g. CAD, .dxf, etc.) | Appendix A Appendix B |
| 5 | Detailed description of any deviations from the For Construction Design. Deviations that should be noted include, but are not limited to, changes in design and construction materials, construction methodology or monitoring | 6 |
| 6 | Observed performance of the construction including a comparison to predicted performance. Recommendations for performance monitoring based on observations during construction if applicable | NA |
| 7 | A description and list of instrumentation installed, if applicable, and results of construction monitoring including all environmental data. Recommendations for additional performance or environmental monitoring based on observations and monitoring results, if applicable. | NA |
| 8 | A summary of quality assurance testing results, if applicable, and comparison of these results to construction/design requirements to ensure performance of the infrastructure or facilities. | 3 Appendix B |
| 9 | A summary of adaptive management principles and practices related to environmental management and monitoring applied during the relevant phases of the Project and their overall effectiveness | NA |
| 10 | Photographic records before, during and after construction of the facilities or infrastructure. | 4 |
| 11 | Map(s) to illustrate the completed construction in relation to Lease boundaries and water bodies. The minimum distance from completed or modified facilities and infrastructure to the surveyed boundary of the Property, surveyed boundary of the Impact Area, and the original high water mark should be provided. | Appendix D |

Appendix A

As-built Drawings

1. IDENTIFY ALL VALVES WITH TAG IDENTIFICATION NUMBERS AS INDICATED ABOVE. TAGS SHALL BE OCTAGONAL 316 S.S., MIN 22 GA., ETCHED IN/BLACK LEGIBLE CHARACTERS.
2. L.O. = LOCKED OPEN
3. N.O. = NORMALLY OPEN
4. B.C. = NORMALLY CLOSED



Romy Franken
DEC 10 2019

[illegible]

H353004-10000-240-272-0003-0001
DWG. No.

AS BUILT

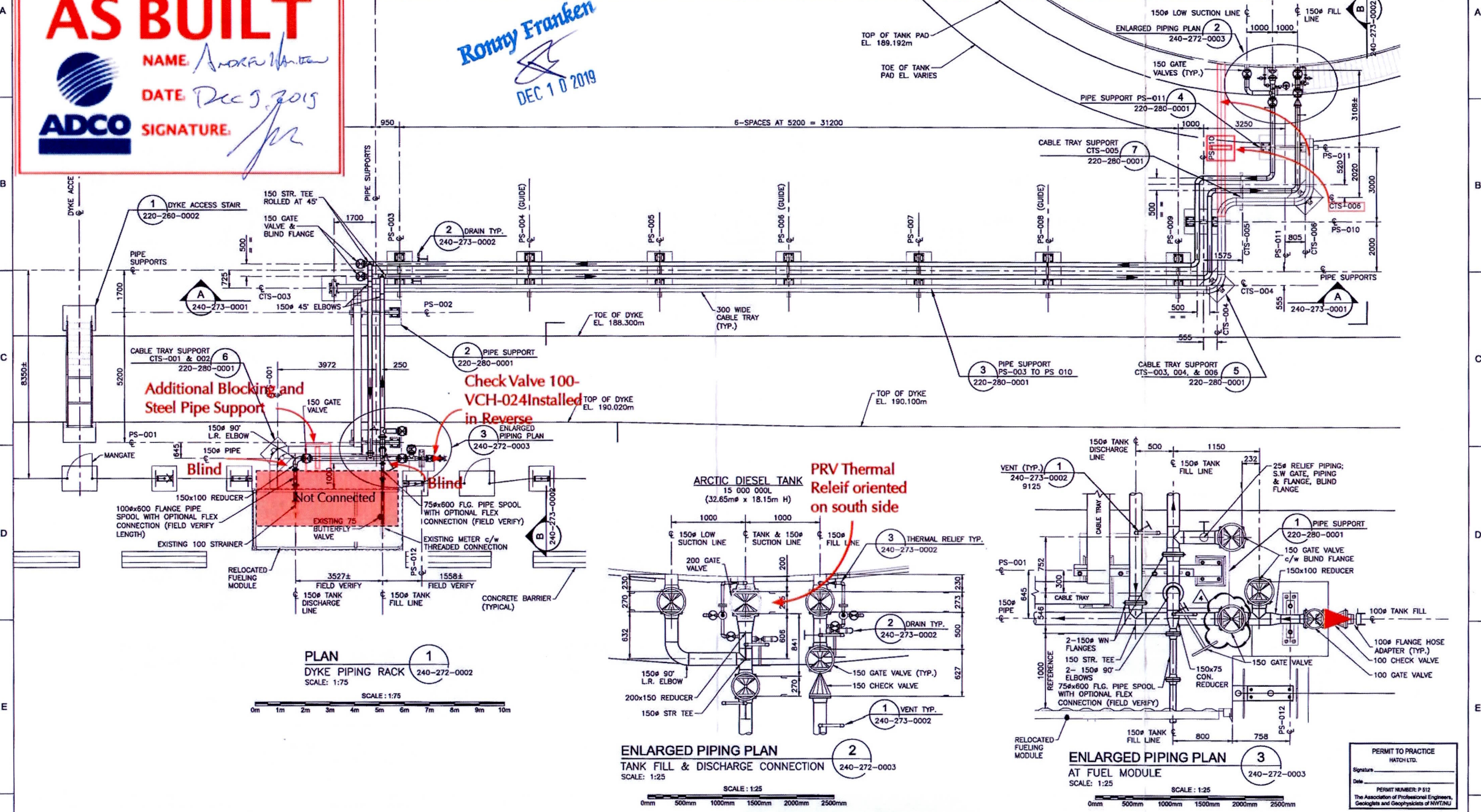


NAME: *Andrew Hinton*
DATE: *Dec 9, 2015*
SIGNATURE: *[Signature]*

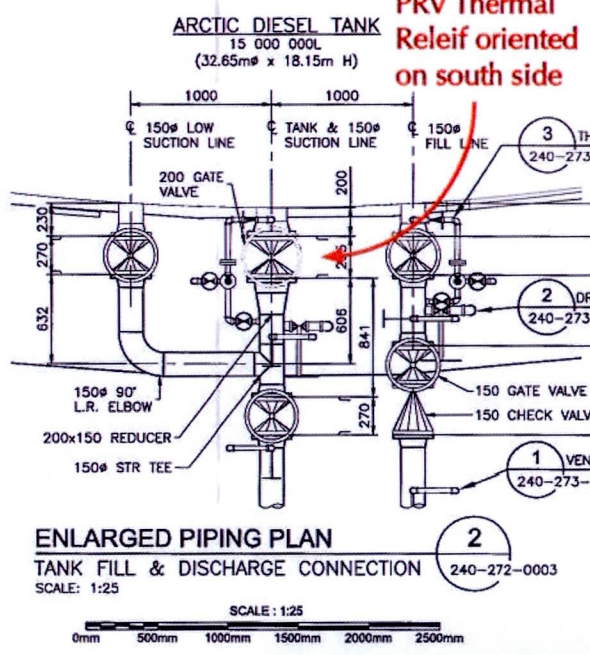
Romy Franken
DEC 10 2019

ARCTIC DIESEL TANK TK-005
15 000 000L
(32.65m x 18.15m H)

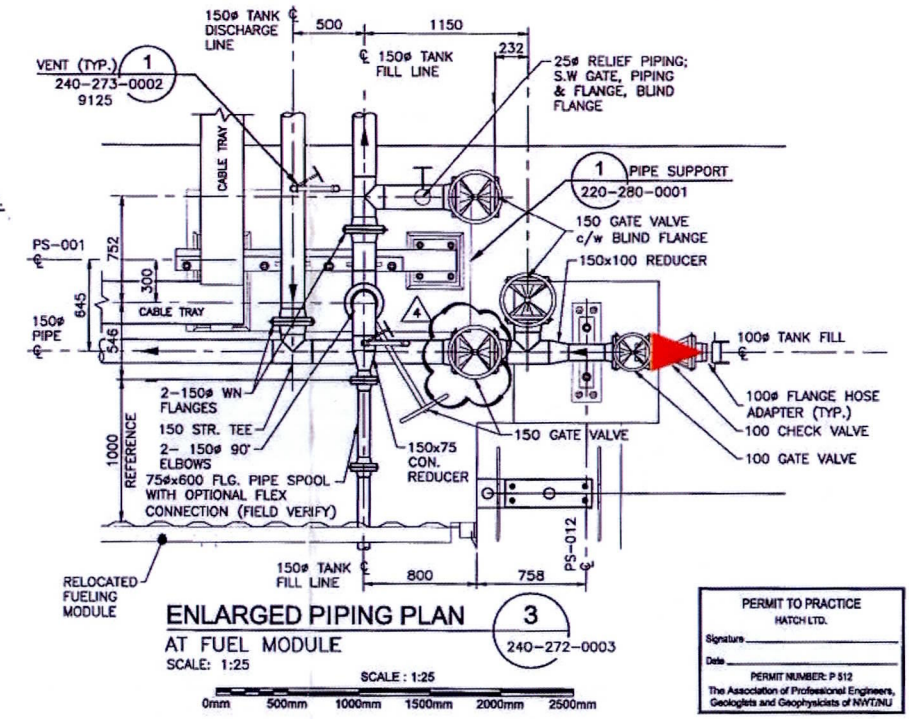
TANK EXTERIOR SHELL
TOP OF TANK PAD EL. 189.192m
TOE OF TANK PAD EL. VARIES



PLAN
DYKE PIPING RACK 240-272-0002
SCALE: 1:75



ENLARGED PIPING PLAN
TANK FILL & DISCHARGE CONNECTION 240-272-0003
SCALE: 1:25



ENLARGED PIPING PLAN
AT FUEL MODULE 240-272-0003
SCALE: 1:25

PERMIT TO PRACTICE
HATCH LTD.
Signature: _____
Date: _____
PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NTNU

| | |
|---------------------------------|---|
| H353004-10000-210-276-0001-0001 | MINE SITE ADDITIONAL TANK FARM STORAGE P&ID |
| H353004-10000-210-282-0001-0001 | MINE SITE FUEL SYSTEM PROCESS FLOW DIAGRAM |
| H353004-10000-240-272-0002-0001 | MINE SITE TANK FARM GENERAL ARRANGEMENT |
| H353004-10000-240-270-0001-0001 | MINE SITE 15,000,000L ARCTIC DIESEL TANK TK-005 |
| H353004-10000-240-270-0002-0001 | MINE SITE 15,000,000L ARCTIC DIESEL TANK TK-006 |
| H353004-10000-240-273-0001-0001 | MINE SITE TANK FARM PIPING SECTION-A |
| H353004-10000-240-273-0002-0001 | MINE SITE TANK FARM PIPING SECTIONS & MISCELLANEOUS DETAILS |
| H353004-10000-220-280-0001-0001 | MINE SITE TANK FARM PIPE SUPPORTS |
| H353004-10000-220-280-0002-0001 | MINE SITE PIPE SUPPORTS CONCRETE BASE DETAILS |
| H353004-10000-280-272-0005-0001 | MINE SITE TANK FARM ELECTRICAL GENERAL ARRANGEMENT |



| | | | | | |
|---|--|-----|-----|----------|--|
| 4 | GATE VALVE ADDED | | | | |
| 3 | EXISTING PORT SITE FUEL MODULE UTILIZED, PIPING MODIFIED TO SUIT; ENLARGED PIPING PLAN -3 ADDED; | HPC | MMI | 19-10-06 | |
| 2 | ADDITIONAL STORAGE TANK TK-006 ADDED | HPC | MMI | 19-02-01 | |
| | CTS-002 DELETED; RELIEF PIPING AT TANK NOZZLES MODIFIED. STAIRS RELOCATED | | | | |

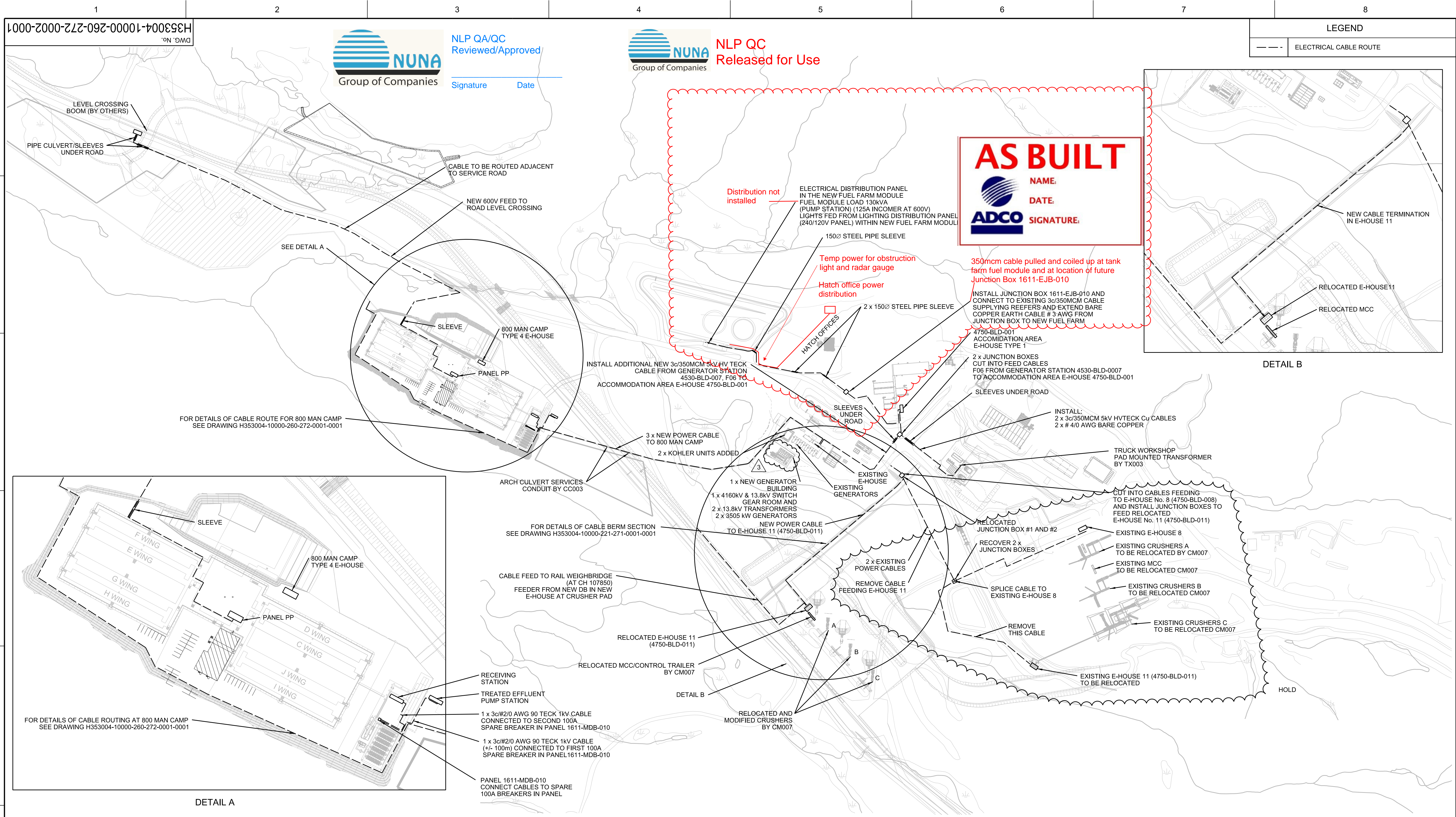
| | | | |
|-----------------|--------------|----|----------|
| DRAFTSPERSON | H. P. CURRIE | NR | 18-06-19 |
| DESIGNER | J. MacLEAN | NR | 18-06-19 |
| CHECKER | M. MacINTYRE | | |
| DESIGN COORD. | M. MacINTYRE | | |
| RESP. ENG. | F. BUTTS | | |
| LEAD DISC. ENG. | J. MacLEAN | | |

HATCH

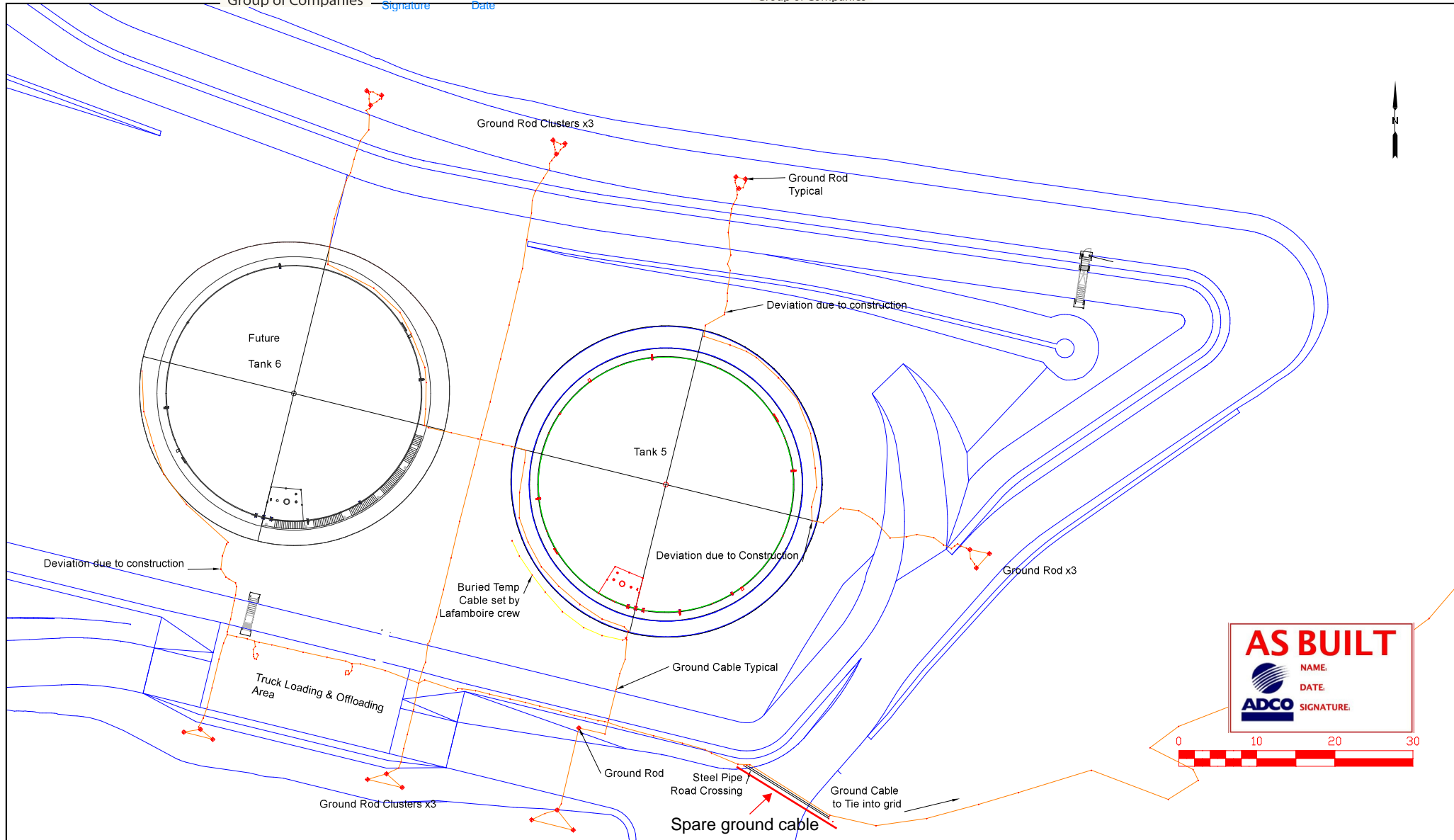
Baffinland

MARY RIVER EXPANSION PROJECT
BAFFINLAND IRON MINES LP

MINE SITE



| | | | | | |
|---|--|----------------------------|--|---------------------------------|--|
| APPROVED FOR CONSTRUCTION | | HATCH | | Baffinland | |
| MINE SITE 4160V & 600V DISTRIBUTION - SINGLE LINE DIAGRAM | | DRAFTSPERSON T XULU | | BAFFINLAND IRON MINES LP | |
| SITEWIDE STANDARD DRAWING - EARTHWORKS & DRAINAGE DETAILS | | DESIGNER T XULU | | MARY RIVER EXPANSION PROJECT | |
| 800 PERSON CAMP CABLE ROUTING - LAYOUT | | CHECKER W DE BRUTO | | | |
| UTILITY BENCH AT CRUSHER PAD - PLAN AND PROFILE | | DESIGN COORD. R GOOSEN | | | |
| UTILITY BERM TO TRUCK WORKSHOP - PLAN AND PROFILE | | RESP. ENG. J WIKSTON | | | |
| | | LEAD DISC. ENG. W DE BRUTO | | | |
| | | AREA LEAD M HAAKSMA | | | |
| | | ENG. MANAGER R GOOSEN | | | |
| | | AREA MANAGER T ATIBA | | | |
| DRAWING No. | | NAME | | SIGNATURE | |
| REFERENCE DRAWINGS | | DATE | | DATE | |
| REG. PROFESSIONAL | | DRAWING APPROVAL STATUS: | | Approved for Construction | |
| | | SCALE | | OR AS NOTED | |
| | | DWG. No. | | H353004-10000-260-272-0002-0001 | |
| | | REV | | 4 | |



AS BUILT
NAME: _____
DATE: _____
SIGNATURE: _____
ADCO



NOTES:
Asbuilt Ground Grid overlaid on Hatch Construction Lines
Ground Rod location field fit at site See attach RFI responseE353004-CX001-400-465-0062_0_V2.pdf

CLIENT:
Baffinland Iron Mines Corporation

PROJECT:
Mary River Expansion Project,
Baffin Island, Nunavut

PREPARED BY:
Nuna East Ltd.
9839 - 31 Avenue
Edmonton, AB
T6N 1C5

DRAWN BY:
mc

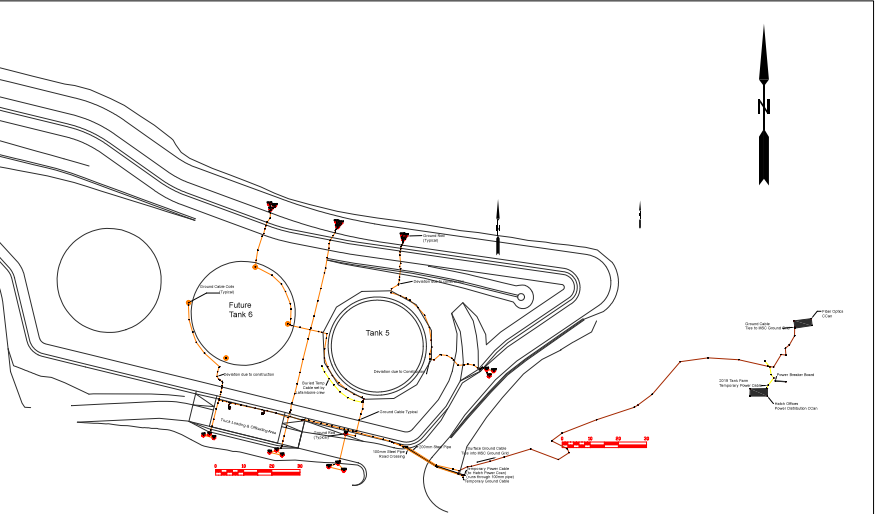
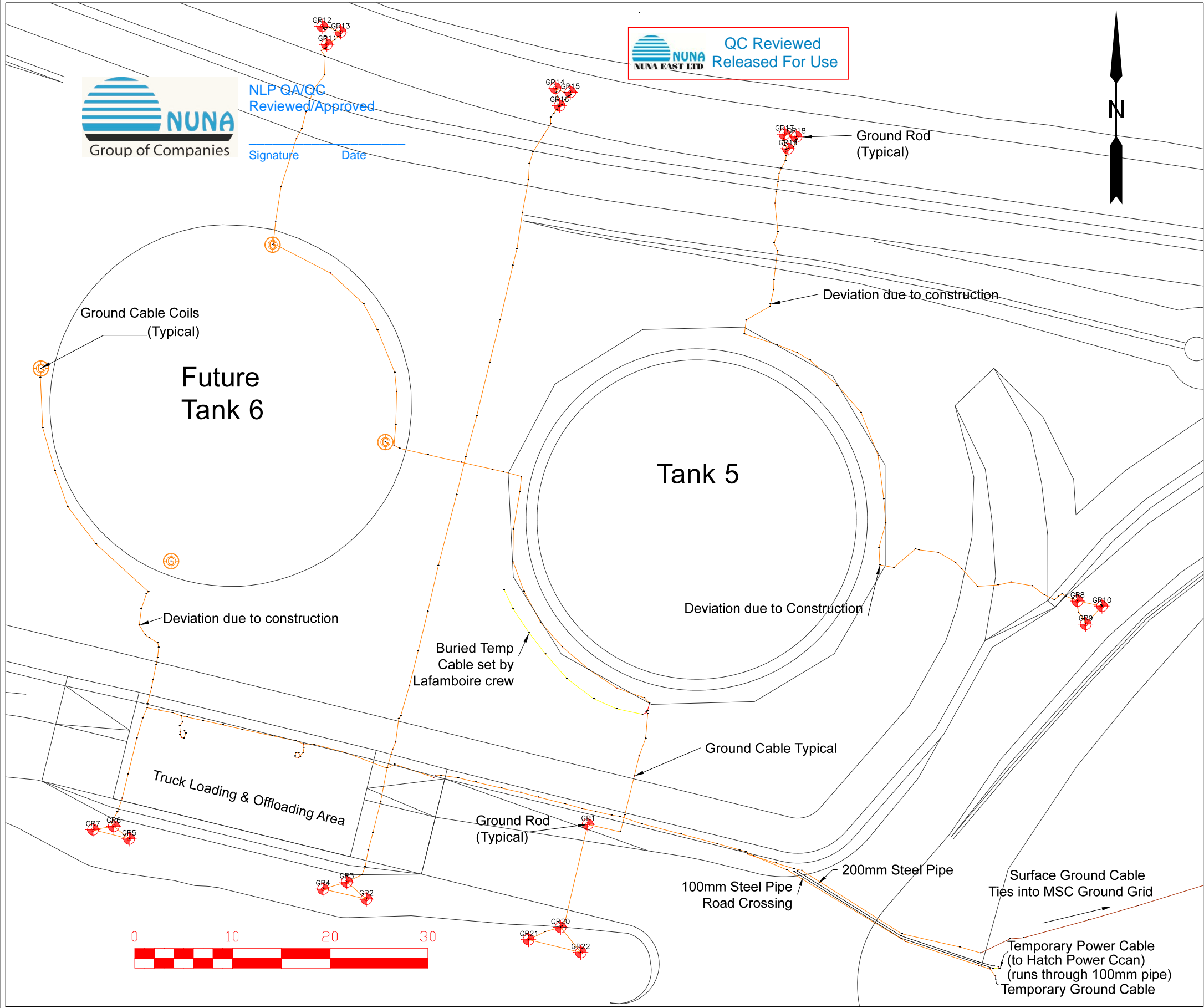


SCALE:
barscale

DATE:
Aug 6, 2019

DRAWING TITLE:
**Mine Site
Tank Farm Grounding
Redline Asbuilt Aug. 3/19**

DRAWING NAME (YYMMDD):
SM-Redline 190806 MRTF Ground Grid.dwg



2019 Mary River Tank Farm Grounding Grid:
Grounding Grid buried inside farm & on surface east of steel pipe.
Ground Cables tie into the MSC Ground Grid at fiber optics Ccan.
Temporary Power Line runs through the 100mm steel pipe
& terminates at the Hatch Office Power Distribution Ccan.
Ground Rods (GR1-GR22) were drilled July 26/19 & Elevations
at top of installed ground rods were surveyed.

| Rod ID | Northing | Easting | Top of Rod | Description |
|--------|------------|-----------|------------|----------------|
| GR1 | 7913404.06 | 561117.79 | 189.48 | Top Ground Rod |
| GR2 | 7913396.42 | 561095.15 | 189.21 | Top Ground Rod |
| GR3 | 7913398.17 | 561093.14 | 190.35 | Top Ground Rod |
| GR4 | 7913397.45 | 561090.71 | 189.67 | Top Ground Rod |
| GR5 | 7913402.58 | 561070.87 | 189.82 | Top Ground Rod |
| GR6 | 7913403.87 | 561069.29 | 190.34 | Top Ground Rod |
| GR7 | 7913403.52 | 561067.16 | 189.75 | Top Ground Rod |
| GR8 | 7913426.92 | 561167.92 | 189.52 | Top Ground Rod |
| GR9 | 7913424.55 | 561168.76 | 189.66 | Top Ground Rod |
| GR10 | 7913426.39 | 561170.43 | 189.74 | Top Ground Rod |
| GR11 | 7913483.87 | 561091.10 | 187.84 | Top Ground Rod |
| GR12 | 7913485.73 | 561090.61 | 187.75 | Top Ground Rod |
| GR13 | 7913485.14 | 561092.51 | 187.79 | Top Ground Rod |
| GR14 | 7913479.39 | 561114.48 | 188.24 | Top Ground Rod |
| GR15 | 7913478.97 | 561116.02 | 188.23 | Top Ground Rod |
| GR16 | 7913477.62 | 561114.91 | 188.30 | Top Ground Rod |
| GR17 | 7913474.69 | 561137.94 | 188.82 | Top Ground Rod |
| GR18 | 7913474.42 | 561139.15 | 188.79 | Top Ground Rod |
| GR19 | 7913473.20 | 561138.30 | 188.74 | Top Ground Rod |
| GR20 | 7913393.52 | 561115.01 | 188.79 | Top Ground Rod |
| GR21 | 7913392.27 | 561111.74 | 188.84 | Top Ground Rod |
| GR22 | 7913390.96 | 561117.08 | 188.81 | Top Ground Rod |

AS BUILT

NAME: _____

DATE: _____

ADCO SIGNATURE: _____

NOTES:

Ground Rods drilled & asbuilt July 26, 2019

xref files:AB 2019 MRTF Ground Rods.xml & .pdf

CAB 190903 MRTF Tk 5 & 6 Grnd Cables-Rods & Pipe Crossing.csv

— Final Grade Design Lines

⊙ Ground Cable Coils at Future Tank 6

⊕ Ground Rod (Top of Rod)

Coordinate System:
UTM Zone 17 North
Nad 1983 (Canada)
Geoid HT2_0
Base Station: @ ID # Rebar-01
N 7913406.434
E 561204.787
Z 198.991

CLIENT:
Baffinland Iron Mines Corporation

PROJECT:
Mary River Expansion Project,
Baffin Island, Nunavut

PREPARED BY:
Nuna East Ltd.
9839 - 31 Avenue
Edmonton, AB
T6N 1C5

DRAWN BY:
mc



SCALE:
barscale

DATE:
Sept. 3, 2019

DRAWING TITLE:
Mary River Tank Farm
Ground Grid & Rods
Asbuilt 2019

DRAWING NAME (YYMMDD):
CAB 190903 MRTF Tk 5 & 6 Grnd Cables-Rods & Pipe Crossing.dwg

Appendix B

Mary River Tank Farm Piping E353004-CX001-130-124-0011 Job Book CVR-062

Appendix C

Contact Information as per Components 1 and 2 of the Commercial Lease Requirement

Baffinland Iron Mines LP - Mary River Expansion Project
Construction Summary Report: Mary River Tank Farm Piping (2019) Piping and Electrical - April 8, 2020

| Company | Address | Contact Numbers |
|--|---|--|
| Hatch (Global Corporate Office) (EPCM Contractor) | Sheridan Science & Technology Park 2800 Speakman Drive Mississauga, ON L5K 2R7 Canada | Tel: 1-905-855-7600 Fax: 1-905-855-8270 |
| Nuna East Limited | 9839 – 31 Avenue NW Edmonton, AB T6N 1C5 Canada | Tel: 1-780-434-9114 Fax: 1-780-434-7758 |

| Role | Name | Email |
|------------------------------|--------------------|--|
| Preparer of Report | Glen Peace, P.Eng. | glen.peace@hatch.com |
| Responsible for Construction | Marlon Coakley | marlon.coakley@hatch.com |
| Baffinland Representative | Christopher Murray | Christopher.murray@baffinland.com |

Appendix D

Map to show Construction in Relation to Lease Boundaries and Water Bodies



SAVED: C:\Users\katie.mcguire\Documents\4 - Maps\Reporting\CSR\Mine Site Tank Farm\BIM_Fig 1 MineSite TankFarm.mxd, 06-Apr-20