MUNICIPALITY OF POND INLET

Operation & Maintenance Plan for Municipal Water Licence: Water Supply Facilities

October 2026

Document Control

Date	Document Title	Author	Details
September 2026	Municipality of Pond Inlet Operation & Maintenance Plan for Municipal Water Licence: Water Supply Facilities	Dillon Consulting Ltd.	Original Document
October 2026	Municipality of Pond Inlet Operation & Maintenance Plan for Municipal Water Licence: Water Supply Facilities	Dillon Consulting Ltd.	Erosion and Sediment Control information added to body of the O&M Plan

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1.0 Site Description

Date this plan was prepared: 2026-Sep-01

1.1 Location of the Water Supply Facility (WSF)

Municipality:	Pond Inlet
Latitude:	72°40'14.94" N
Longitude:	77°55'38.76" W
Proximity to Town:	Approximately 4 km South

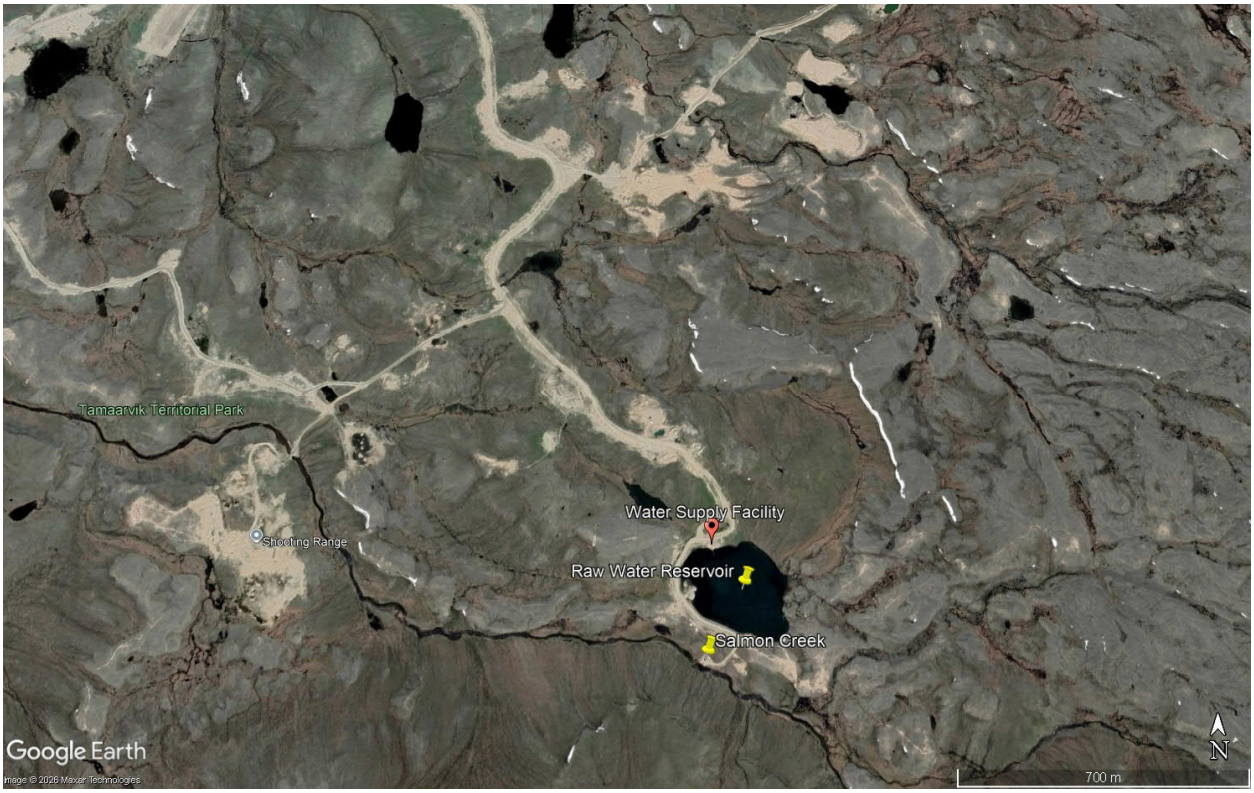


Figure 1: Pond Inlet Water Supply Facility and Surrounding Infrastructure. (Google Earth, 2026)

1.2 WSF Site Summary

Year of commissioning the WSF: Fall 2028 (expected final commissioning)

Design life of the WSF: 20 Years

1.2.1 Site History

Pond Inlet is a community located on the northern tip of Baffin Island in the Qikiqtaaluk Region of Nunavut, Canada. The area experiences continuous permafrost extending several hundred meters deep. The 30-year annual precipitation climate normal (1991–2020) is 195.1 mm/year (with the active representative local climate station 43223 recording an average of 184 mm/year for 2005–2023). Natural resupply of the reservoir occurs primarily from surface runoff and snow/ice melt during the brief warmer summer months. Peak winter conditions bring freezing temperatures and surface ice cover up to 2 meters thick on the reservoir, which restricts natural inflows and reduces usable winter storage.

The community served 1,555 residents as of the 2021 census. Applying an average annual growth rate of 1.54%, the community population is projected to grow to 2,358 residents by the 2048 design horizon.

The current facility operates under Water Licence 3BM-PON2025, originally issued June 30, 2020, with an expiry of June 29, 2025. To support the new WTP, an amendment is in progress to upgrade to renew and amend the expired license.

Raw water is primarily sourced from Pond Inlet Reservoir (Water Lake Reservoir). Because natural recharge is insufficient over winter, it is seasonally resupplied via an overland pumping pipeline from the adjacent Salmon Creek (located approximately 100 m south of the reservoir and 4.4 km south of town).

The existing plant is restricted to chlorination. The new WTP will utilize a highly robust multi-barrier Standard Water Treatment Train (SWTT) supplemented by greensand filtration. Drinking water is distributed via daily trucked services directly from the truck fill arms of the WTP truck fill station to home and business holding tanks.

2.0 Staff

2.1 Senior **Administrative Officer**

Name: David Stockley

Phone: 867-899-8934

Email: sao@pondinlet.com

Responsibilities:

- Submission of the Annual Report for the Nunavut Water Board (NWB)
- The CAO manages the municipal staff to ensure that:
  - proper operation of the WSF is carried out
  - sampling and inspections are completed
  - information under the water licence monitoring program is provided to the Government of Nunavut Department of Community and Government Services (GN-CGS) for Annual Report preparation

2.2 Foreman

Name: Jasper Singoorie

Phone: 867-899-8939

Email: foreman@pondinlet.ca

Responsibilities:

- Daily operations and maintenance of the WSF the sampling program at the monitoring stations
- Maintaining signage at the WSF and monitoring stations
- Annual decanting of the lagoon effluent into the adjacent wetland treatment area

2.3 Water Truck Drivers

Name: Various

Phone: N/A

Email: N/A

Responsibilities: The water truck drivers deliver treated water to household and commercial tanks within the municipality.

3.0 Health and Safety

All personnel working within the WSF must follow the Nunavut Safety Act and be made aware of potential health hazards. This is imperative so individuals make a conscious effort to perform all necessary safety procedures to protect themselves, their co-workers and family members at home.

4.0 Security and Control

Access Control of to the facility:

- Perimeter fencing around the lagoon
- Signage
- 450 m restricted land use development setback surrounding the WSF

5.0 Raw Water Sources

Raw water source fill system type: Reservoir Fill (seasonal supplementary resupply from Salmon Creek to the reservoir) and Direct to WTP (submersible pumps drawing directly from the reservoir intakes to feed the main WTP)

Alterations to the natural water source have occurred due to the WSF: Berm improvements on the north and west sides of the reservoir to support higher water volumes. Dual permanent heat-traced carrier pipes and Johnson intake screens have been installed into the reservoir. The abandoned existing intakes and the temporary floating dock setup will be decommissioned and removed post-commissioning.

5.1 Primary Source

Name of primary raw water source:	Salmon Creek
Type of raw water source:	Creek
Average annual quantity of water drawn:	Reported yearly in annual report
Maximum allowable withdrawal:	75,000 m3/year
Ice formation on the water source:	September
Ice breakup on the water source:	June

5.2 Reservoir

Total volume of the reservoir:	120,000 m³ existing usable storage. Expanded berm improvements raise storage volume capacity to 166,845 m³ (or up to 207,462 m³ total storage volume)
Number of reservoir cells:	1
Volume Cell 1:	120,000 m³ existing usable storage. Expanded berm improvements raise storage volume capacity to 166,845 m³ (or up to 207,462 m³ total storage volume)
Year Constructed:	Minor civil works for berm raises begin in late summer/early fall 2026, with physical water-level increases starting in 2028
Number of times per year the reservoir is filled:	Once per year
Number of days it takes to fill the reservoir:	Up to 8 weeks

Months the reservoir is filled: June to September

5.3 Operations

Overview of the operations process:

The following procedure is followed:

A seasonal centrifugal intake pump at Salmon Creek draws water (limited to 10% of the creek's estimated 0.99 m^3/s instantaneous flow rate) and conveys it via a temporary overland transmission pipe to fill the reservoir.

Submersible raw water pumps inside the reservoir pumphouse draw water from the reservoir through dual Johnson screens and VFD-controlled intake lines to feed the main treatment train.

Treated water is pumped from the exterior treated water storage tank to dual truck fill arms via 3 truck fill pumps (2 duty, 1 standby) at a flow rate of 1,000 L/min per arm to fill delivery vehicles.

If fire flows are needed, a treatment bypass system provides rapid, high-flow (1,000 L/min) chlorinated raw water directly to receiving trucks, preventing the need to size the primary WTP filtration systems for fire flows.

5.4 Maintenance

The roadway and truck pad shall be maintained by regular snow clearing in the winter and grading in the summer, with structural repairs undertaken as necessary. Ditches, swales, culverts, and drainage channels across the entire Water Supply Facility footprint shall be inspected during the summer and immediately following heavy precipitation or high-melt runoff events for signs of scouring, gullying, or sediment accumulation, and repaired promptly. The truckfill station and signage shall be inspected regularly and repaired or replaced as required.

This facility is owned and operated by the Municipality, and any operational issues or failures of containment must be reported to the Senior Administrative Officer (SAO) immediately. The water delivery program is managed by the Municipality, and issues identified by water truck drivers must also be reported to the SAO without delay.

5.4.1 Erosion and Sediment Control

To protect the raw water reservoir and surrounding tundra, the following phased ESC measures apply across the complete project footprint (WTP pad, berm expansion, intake corridor, and quarry haul routes):

- Full-Footprint Coverage & Phasing:
  - Phase 1 (WTP Pad): Earthworks remain outside the 30 m reservoir buffer. Heavy-duty silt fencing must be installed along the work perimeter, offset 1.0 m horizontally from the 99.5 m High-Water Level (HWL).
  - Phase 2 (Berms & Intake): Silt fencing will extend along the entire northern and western reservoir berms, placed 1.0 m above the active HWL and relocated upslope as water levels rise. Temporary controls remain until slopes are permanently stabilized.
- In-**Water Protection:** Prior to any activity within 30 m of water, an anchored, buoy-marked floating silt curtain must surround the operational municipal intake to safeguard drinking water extraction throughout construction.
- Work Near Water: Machinery is prohibited from entering open water. Intake installation will proceed from a compacted aggregate working berm, with spill kits and absorbent booms staged directly adjacent.
- Dewatering & Runo**ff**: Dewatering pumps must use intake strainers suspended off trench bottoms and discharge through filtration bags onto stable, vegetated upland terrain—never directly into the reservoir. Granular stockpiles must be situated away from drainage paths and covered or wetted down to suppress dust and runoff.
- **Inspections:** All silt fences, barriers, and floating curtains must be inspected daily during active works and after heavy rainfall/melt events; damaged controls must be repaired immediately and sediment cleaned out when barriers reach one-third capacity.

6.0 Water Treatment Process

A brief overview of the water treatment process:

The WTP process is designed to operate 18 hours/day to satisfy the year 2048 demand. It treats water containing elevated levels of Manganese, Iron, and Total Organic Carbon (TOC) using the standard multi-barrier SWTT process modified with greensand filtration. The treatment stages include:

1. Pre-screening: Dual reservoir intakes with Johnson screens and basket strainers remove sand, silt, and large particulates.
2. Chemical Conditioning: pH adjustment (via soda ash), coagulant injection, and polymer addition aggregate fine particulates and dissolved organics.
3. Flocculation & DAF: Dissolved Air Flotation (DAF) floats aggregated flocs to the surface for removal, protecting downstream systems from premature membrane fouling.
4. Greensand Filtration: Dual pressure greensand filters remove dissolved iron and manganese.
5. Ultrafiltration (UF) Membrane Filtration: Dual submerged hollow-fiber membraneTrains (90% capacity each, >92% recovery rate) provide a minimum of 3-log removal of Giardia and Cryptosporidium.
6. Primary UV Disinfection: Dual UV reactors (each at 100% capacity) provide an additional 3-log Protozoa inactivation credit.
7. Secondary Chlorine Disinfection: Sodium hypochlorite is dosed into the exterior treated water storage tank to achieve a 4-log virus inactivation credit and maintain a chlorine residual of 0.5–1.0 mg/L throughout the trucked distribution system.

Operations and Maintenance:

The following documents are on site at the WTP:

Contractor-supplied primary WTP Operations & Maintenance (O&M) Manual

Municipality of Pond Inlet Operation & Maintenance Plan for Municipal Water Licence: Water Supply Facilities

7.0 Monitoring

Regulatory Inspection:

The annual Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) inspection will take place accompanied by the licensee and/or with a licensee representative from GN-CGS. The inspection will be reviewed by a GN-CGS municipal engineer and submitted with the annual report.

Table 1: Licence Requirements Related to O&M of the Water Supply F**acilities**

Requirements	Reported
Monthly and annual quantities of fresh water obtained from all sources	Annual report submitted to NWB
A summary of modifications and/or major maintenance work carried out on the WSF	Annual report submitted to NWB
A list of spills and unauthorized discharges related to the WSF.	Annual report submitted to NWB
Volume of Potable Water Supply at Post River Monitoring Program Station PON-1	Annual report submitted to NWB
A summary of any studies requested for the WTP and future planned studies planned	Annual report submitted to NWB

Planned Modifications or Upgrades:

- Construction of the new WTP building.
- Reservoir berm raises to provide sufficient winter storage volume.
- Exterior above-ground process waste tank to receive spent membrane CIP and backwash wastewater (to be routinely hauled away by wastewater trucks)

Appendix A

I F C Drawings



KEY PLAN

Canada

Nunavut

POND INLET NEW WATER TREATMENT PLANT

GOVERNMENT OF NUNAVUT
PROJECT NO. 20255-00668-03

POND INLET, NUNAVUT, CANADA

PROJECT NO. 24-7458

ISSUED FOR CONSTRUCTION

REVISION 1 ISSUED FOR CONSTRUCTION 2026-APR-24

DILLON CONSULTING
GOVERNMENT OF NUNAVUT
PROJECT NO. 20255-00668-03
POND INLET NEW WATER TREATMENT PLANT
APRIL 2026
Project No. 24-7458

PLOT DATE: 2026-04-27 12:42:24 PM FILE NAME: Autodesk Docs://Pond Inlet WTP/247458-COVER SHEET_WTP.rvt

POND INLET NEW WATER TREATMENT PLANT

GOVERNMENT OF NUNAVUT PROJECT NO. 20255-00668-03

POND INLET, NUNAVUT, CANADA

PROJECT NO. 24-7458

CIVIL	
C-0	CIVIL KEY PLAN
C-1	EXISTING CONDITIONS
C-2	SITE PLAN
C-3	GRADING PLAN
C-4	CUT AND FILL PLAN
C-5	SITE SECTIONS
C-6	STORM DRAINAGE DITCH
C-7	STORM DRAINAGE DITCH
C-8	INTAKE PLAN AND PROFILE
C-9	PLAN DETAILS
C-10	BERM EXISTING CONDITIONS
C-11	BERM SITE AND GRADING PLAN
C-12	BERM SITE AND GRADING PLAN
C-13	BERM SECTIONS
C-14	BERM SECTIONS
D-1	CIVIL DETAILS
D-2	CIVIL DETAILS

STRUCTURAL	
S-1	GENERAL NOTES & TYPICAL DETAILS
S-2	PILE PLAN
S-3	PILE CAPS
S-4	BRACING ELEVATIONS & CONNECTIONS
S-5	PIPE SUPPORT PLAN
S-6	CONCRETE SLAB PLAN
S-7	FLOOR FRAMING PLAN
S-8	ROOF FRAMING PLAN
S-9	ELEVATIONS
S-10	ELEVATIONS
S-11	STRUCTURAL FRAMING DETAILS
S-12	STAIRS
S-13	STAIRS - DETAILS

ARCHITECTURAL	
A-1	SCHEDULES & CODE MATRIX
A-2	FLOOR PLAN
A-3	ROOF PLAN
A-4	BUILDING SECTIONS
A-5	WEST & NORTH ELEVATIONS
A-6	EAST & SOUTH ELEVATIONS
A-7	ARCHITECTURAL DETAILS
A-8	INTERIOR DETAILS AND ELEVATIONS

PROCESS	
PD0	PROCESS AND INSTRUMENTATION LEGEND
PFD1	PROCESS FLOW DIAGRAM
PD1	PUMP HOUSE RAW WATER INTAKE
PD2	WATER TREATMENT PLANT RAW WATER INTAKE
PD3	RAW WATER SCREENING
PD4	FLOCCULATION AND DISSOLVED AIR FLOTATION (DAF) SYSTEM
PD5	DISSOLVED AIR FLOATATION (DAF) BUFFER TANK AND GREENSAND FILTRATION FEED PUMPS
PD6	GREENSAND FILTRATION SYSTEM
PD7	ULTRAFILTRATION (UF) TRAIN No.1
PD8	ULTRAFILTRATION (UF) TRAIN No.2
PD9	ULTRAFILTRATION (UF) WASTE PUMPS
PD10	ULTRAVIOLET (UV) DISINFECTION
PD11	PROCESS WASTE TANK
PD12	TREATED WATER TANK
PD13	TRUCK FILL PUMPS
PD14	TREATED WATER TANK RECIRCULATION SYSTEM
PD15	INTAKE PUMP HOUSE RECIRCULATION SYSTEM
PD16	COAGULANT SYSTEM
PD17	SODIUM HYPCHLORITE SYSTEM (GREENSAND)
PD18	SODIUM HYPOCHLORITE SYSTEM (DISINFECTION)
PD19	SODIUM HYPOCHLORITE TO TRUCK FILL ARMS
PD20	SODA ASH SYSTEM
PD21	FLUORIDE SYSTEM
PD22	POLYMER SYSTEM
P-1	PROCESS LAYOUT AND NOTES
P-2	ENLARGED PLAN I AND SECTIONS
P-3	ENLARGED PLAN I
P-4	PROCESS SECTIONS
P-5	PROCESS SECTIONS
P-6	PRCOESS SECTIONS
P-7	PROCESS SECTIONS
P-8	3D VIEW
P-9	WASTE TANK (TK-610) DETAILS
P-10	TREATED WATER TANK (TK-620) DETAILS
P-11	MISCELLANEOUS DETAILS
P-12	MISCELLANEOUS DETAILS
P-13	EXISTING WATER TREATMENT PLANT DECOMMISSIONG PLAN
P-14	EXISTING WATER TREATMENT PLANT DECOMMISSIONG PLAN

MECHANICAL	
M-1	PLUMBING LAYOUT
M-2	HEATING LAYOUT
M-3	VENTILATION LAYOUT
M-4	FUEL OIL PIPING LAYOUT AND SCHEMATIC
M-5	PLUMBING DETAILS
M-6	PLUMBING SCHEMATIC
M-7	HEATING DETAILS AND SCHEMATIC
M-8	VENTILATION DETAILS
M-9	MECHANICAL SCHEDULES I
M-10	MECHANICAL SCHEDULES II
M-11	MECHANICAL SCHEDULES III

ELECTRICAL	
E-1	ELECTRICAL SITE PLAN
E-2	SINGLE LINE DIAGRAM
E-3	LIGHTING PLAN
E-4	POWER AND COMMUNICATIONS PLAN
E-5	INSTRUMENTATION PLAN
E-6	CABLE TRAY PLAN
E-7	EQUIPMENT SCHEDULE
E-8	PANEL SCHEDULE AND LOAD CALCULATION
E-9	NETWORK ARCHITECTURE DIAGRAM
E-10	GENERATOR BUILDING FLOOR PLAN
E-11	INSTRUMENTATION PLAN (TANKS)
EL-1	120VAC CONTROL PANEL POWER (TYPICAL)
EL-2	120VAC UPS CONTROL PANEL POWER (TYPICAL)
EL-3	24 VDC CONTROL PANEL POWER (TYPICAL)
EL-4	TEMPERATURE TRANSMITTER TIT-610 (TYPICAL)
EL-5	PRESSURE INDICATOR TRANSMITTER PIT-120 (TYPICAL)
EL-6	LEVEL INDICATOR TRANSMITTER LIT-210 (TYPICAL)
EL-7	FLOW INDICATOR TRANSMITTER FIT-120 (TYPICAL)
EL-8	LSLL-222 (TYPICAL)
EL-9	AIT-220A (TYPICAL)
EL-10	AIT-520 (TYPICAL)
EL-11	AIT-220B (TYPICAL)
EL-12	SVGA-310 (TYPICAL)
EL-13	TRUCK FILL BYPASS VALVE FCV-764 (TYPICAL)
EL-14	MEMBRANE TRAIN 310 BLOWER B-310 (TYPICAL)
EL-15	RAW WATER PUMP P-110 (TYPICAL)
EL-16	AUTO TRANSFER SWITCH ATS-9990
EL-17	GENERATOR CONTROL PANEL
EL-18	TRUCK FILL 1 CONTROL PANEL (TYPICAL FOR TRUCK 2)

Canada

Nunavut

2026-APR-24

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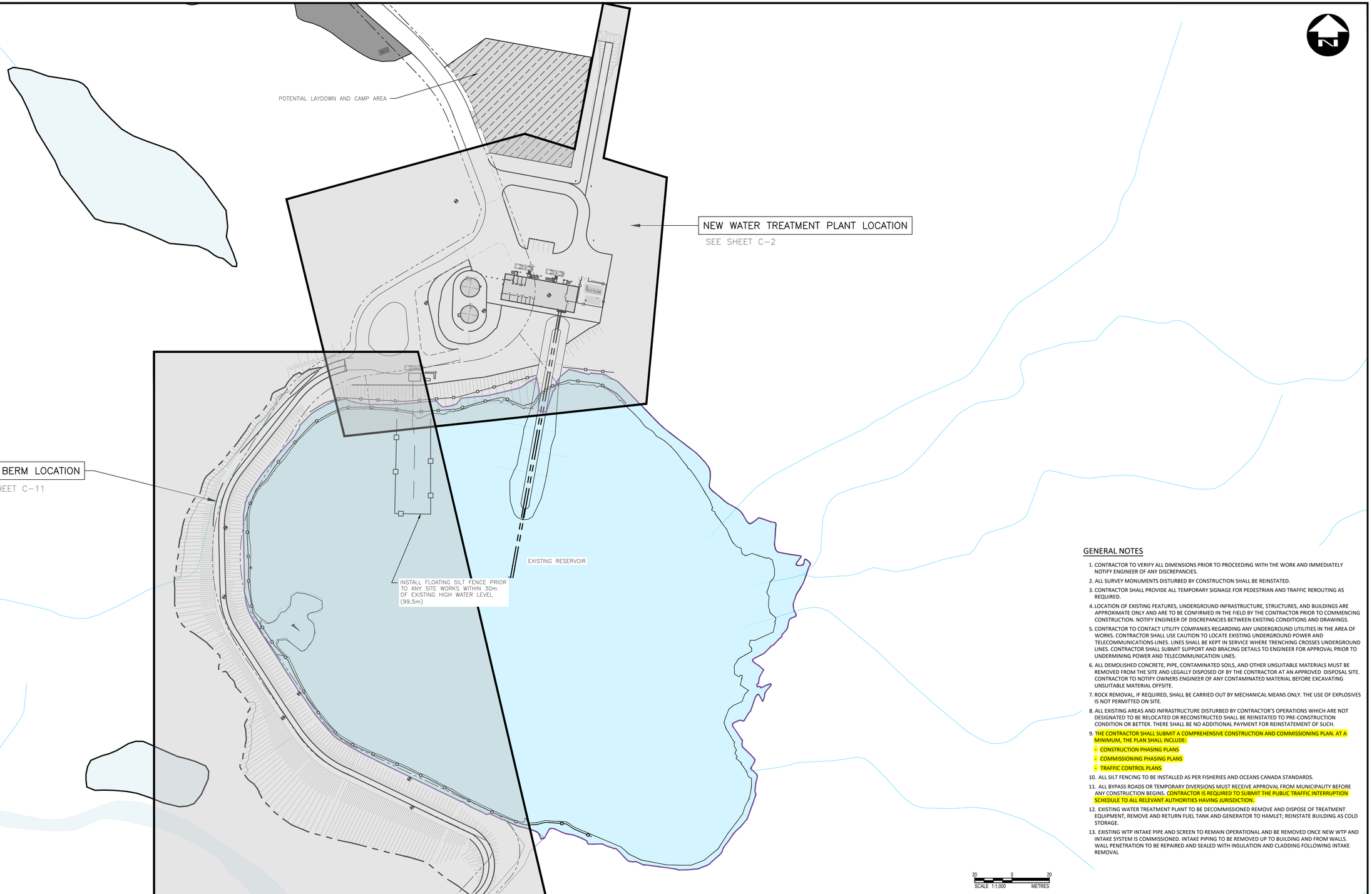
REVISION 1

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DILLON CONSULTING

GOVERNMENT OF NUNAVUT
PROJECT NO. 20255-00668-03
POND INLET NEW WATER TREATMENT PLANT
APRIL 2026
Project No. 24-7458

PLOT DATE: 2026-04-27 12:42:24 PM FILE NAME: Autodesk Docs://Pond Inlet WTP/247458-COVER SHEET_WTP.rvt



GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. ALL SURVEY MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED.
3. CONTRACTOR SHALL PROVIDE ALL TEMPORARY SIGNAGE FOR PEDESTRIAN AND TRAFFIC REROUTING AS REQUIRED.
4. LOCATION OF EXISTING FEATURES, UNDERGROUND INFRASTRUCTURE, STRUCTURES, AND BUILDINGS ARE APPROXIMATE ONLY AND ARE TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS.
5. CONTRACTOR TO CONTACT UTILITY COMPANIES REGARDING ANY UNDERGROUND UTILITIES IN THE AREA OF WORKS. CONTRACTOR SHALL USE CAUTION TO LOCATE EXISTING UNDERGROUND POWER AND TELECOMMUNICATIONS LINES. LINES SHALL BE KEPT IN SERVICE WHERE TRENCHING CROSSES UNDERGROUND LINES. CONTRACTOR SHALL SUBMIT SUPPORT AND BRACING DETAILS TO ENGINEER FOR APPROVAL PRIOR TO UNDERMINING POWER AND TELECOMMUNICATION LINES.
6. ALL DEMOLISHED CONCRETE, PIPE, CONTAMINATED SOILS, AND OTHER UNSUITABLE MATERIALS MUST BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR AT AN APPROVED DISPOSAL SITE. CONTRACTOR TO NOTIFY OWNERS ENGINEER OF ANY CONTAMINATED MATERIAL BEFORE EXCAVATING UNSUITABLE MATERIAL OFFSITE.
7. ROCK REMOVAL, IF REQUIRED, SHALL BE CARRIED OUT BY MECHANICAL MEANS ONLY. THE USE OF EXPLOSIVES IS NOT PERMITTED ON SITE.
8. ALL EXISTING AREAS AND INFRASTRUCTURE DISTURBED BY CONTRACTOR'S OPERATIONS WHICH ARE NOT DESIGNATED TO BE RELOCATED OR RECONSTRUCTED SHALL BE REINSTATED TO PRE-CONSTRUCTION CONDITION OR BETTER. THERE SHALL BE NO ADDITIONAL PAYMENT FOR REINSTATEMENT OF SUCH.
9. THE CONTRACTOR SHALL SUBMIT A COMPREHENSIVE CONSTRUCTION AND COMMISSIONING PLAN. AT A MINIMUM, THE PLAN SHALL INCLUDE:
   - CONSTRUCTION PHASING PLANS
   - COMMISSIONING PHASING PLANS
   - TRAFFIC CONTROL PLANS
10. ALL SILT FENCING TO BE INSTALLED AS PER FISHERIES AND OCEANS CANADA STANDARDS.
11. ALL BYPASS ROADS OR TEMPORARY DIVERSIONS MUST RECEIVE APPROVAL FROM MUNICIPALITY BEFORE ANY CONSTRUCTION BEGINS. CONTRACTOR IS REQUIRED TO SUBMIT THE PUBLIC TRAFFIC INTERRUPTION SCHEDULE TO ALL RELEVANT AUTHORITIES HAVING JURISDICTION.
12. EXISTING WATER TREATMENT PLANT TO BE DECOMMISSIONED REMOVE AND DISPOSE OF TREATMENT EQUIPMENT, REMOVE AND RETURN FUEL TANK AND GENERATOR TO HAMLET; REINSTATE BUILDING AS COLD STORAGE.
13. EXISTING WTP INTAKE PIPE AND SCREEN TO REMAIN OPERATIONAL AND BE REMOVED ONCE NEW WTP AND INTAKE SYSTEM IS COMMISSIONED. INTAKE PIPING TO BE REMOVED UP TO BUILDING AND FROM WALLS. WALL PENETRATION TO BE REPAIRED AND SEALED WITH INSULATION AND CLADDING FOLLOWING INTAKE REMOVAL

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.

PERMIT TO PRACTICE
DILLON CONSULTING LIMITED
Signature
Date April 22, 2026
PERMIT NUMBER: P 010
NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GRACEY
LICENSEE
L 5088
NT/NU

ISSUED FOR CONSTRUCTION

Canada
Nunavut

DILLON CONSULTING

No.	ISSUED FOR	DATE	BY
1	ISSUED FOR CONSTRUCTION	2026-Apr-24	SJG
0	ISSUED FOR TENDER	2025-Nov-03	LW

DESIGN	LEW
REVIEWED BY	KJ
DRAWN	LEW
CHECKED BY	SJG
DATE	APRIL 2026
SCALE	1:1000

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

PROJECT NO. 24-7458

CIVIL KEY PLAN

SHEET NO. C-0

FILENAME: C:\USERS\SLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-0-4, C-9-11 POND INLET WTP PLANS.DWG
PLOT DATE: 2026-04-21 @ 11:28:51 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB
PLOTTED BY: WOODFORD, LYDIA

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (101.0)
- EXISTING UTILITY POLE / EXISTING GUY WIRE
- EXISTING OVERHEAD WIRE
- APPROX. 30m OFFSET FROM PROPOSED HIGH WATER LEVEL
- SILT FENCING
- EXISTING GRAVEL ROAD
- APPROX. LOCATION OF BORE HOLES, SEE GEOTECHNICAL REPORT

N

5 0 5
SCALE 1:300 METRES

POTENTIAL LAY DOWN / CAMP AREA

PROPERTY LINE

EXISTING UTILITY POLE TO REMAIN

UP1

BH11

EXISTING ACCESS TO WTP TO BE MAINTAINED THROUGHOUT CONSTRUCTION, CONTRACTOR TO ALLOW FOR NORMAL FACILITY OPERATION AND WATER TRUCK ACCESS TO EXISTING WTP DURING CONSTRUCTION.

EXISTING UTILITY POLE TO BE REMOVED, SEE ELECTRICAL PLANS

UP2

PROPERTY LINE

BH14

EXISTING O/H ELECTRICAL UTILITY LINE TO BE REMOVED SEE ELECTRICAL PLANS.

BH12

BH13

APPROX. 30m OFFEST FROM PROPOSED HWL

UP3

EXISTING UTILITY POLE TO BE REMOVED AFTER EXISTING WTP IS DECOMMISSIONED

PROPERTY LINE

INSTALL SILT FENCING 1.0m FROM EXISTING HWL PRIOR TO START OF SITE WORKS WITHIN 30m OF HWL

UP4

EXISTING UTILITY POLE TO BE REMOVED AFTER EXISTING WTP IS DECOMMISSIONED

APPROX. EXISTING HIGH WATER LEVEL 99.5m

EXISTING WATER TREATMENT PLANT FACILITY

MATCH LINE

Conditions of Use

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PERMIT TO PRACTICE
DILLON CONSULTING LIMITED
Signature
Date April 22, 2026
PERMIT NUMBER: P 010
NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GRASLEY
LICENSEE
L 5088
NT/NU

ISSUED FOR CONSTRUCTION

Canada
Nunavut

DILLON CONSULTING

No.	ISSUED FOR	DATE	BY
1	ISSUED FOR CONSTRUCTION	2026-Apr-24	SJG
0	ISSUED FOR TENDER	2025-Nov-10	LW

DESIGN LEW | REVIEWED BY KJ
DRAWN LEW | CHECKED BY SJG
DATE APRIL 2026
SCALE 1:300

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT EXISTING CONDITIONS

PROJECT NO. 24-7458

SHEET NO. C-1

FILENAME: C:\USERS\SGLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-0-4; C-9-11 POND INLET WTP PLANS.DWG PLOTTED BY: SGRASLEY
PLOT DATE: 2026-04-21 @ 11:31:40 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

LEGEND

- PROPERTY LINE
- LIMIT OF CONSTRUCTION
- GW — UP — EXISTING UTILITY POLE / EXISTING GUY WIRE
- OH — OH — OH — EXISTING OVERHEAD WIRE
- APPROX. 30m OFFSET FROM WATER LEVEL
- PROPOSED DITCHING
- PROPOSED BERM AND NEW INTAKE LINES
- SILT FENCING
- NEW GRAVEL DRIVE/PARKING AREA
- 8.0m OF 200mm THICK HIGH-DENSITY RIGID INSULATION AT TOP OF CONTAINMENT BERM
- TRAFFIC SIGNAGE, SEE DETAIL 7/D-1
- CONCRETE FILLED SECURITY BOLLARDS, SEE DETAIL 4/D-2

NOTES:

1. ALL NOTES OF THIS SHEET APPLICABLE TO ALL DRAWINGS.
2. ALL MEASUREMENTS PROVIDED IN METERS (m) UNLESS OTHERWISE NOTED.
3. ALL SURVEY MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ADAPTIVE BASELINE GEOTECHNICAL LTD. (ABG) IS THE OWNER'S DESIGNATED PARTY RESPONSIBLE FOR PERFORMING THE FOLLOWING SPECIALIZED TESTING AND MONITORING SERVICES: AGGREGATE TESTING, COMPACTION TESTING, CONCRETE TESTING, AND PILE MONITORING. THE CONTRACTOR IS NOT RESPONSIBLE FOR PAYMENT TO ABG, BUT SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED COOPERATION AND TESTING FACILITIES/RESOURCES.
6. BACKFILL AND EMBANKMENT FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY (SPD) DIRECTLY UNDER OR WITHIN 3m OF ANY STRUCTURE OR ROADWAY. ALL OTHER BACKFILL AND EMBANKMENT FILL SHALL BE COMPACTED TO 95% SPD. REFERENCE ASTM D6938 FOR STANDARD TEST METHODS FOR IN-PLACE COMPACTION.
7. ALL WORK TO COMPLY WITH LATEST RELEASED EDITION OF THE STANDARD D698 STANDARD TEST METHODS FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT (12,400 FT-LBF/FT3 (600 KN-M/M3) AND ASTM D6938 STANDARD TEST METHODS FOR IN-PLACE DENSITY AND WATER CONTENT OF SOIL AND SOIL-AGGREGATE BY NUCLEAR METHODS (SHALLOW DEPTH)
8. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS, SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS OR SPECIFICATIONS REFERENCED THEREIN; THE PROJECT IS ALSO SUBJECT TO INSPECTION BY THE GOVERNMENT OF NUNAVUT OR ITS REPRESENTATIVE.
9. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND FEDERAL LAWS THAT ARE PERTINENT TO THIS WORK.
10. ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN A MANNER SUITABLE FOR PUBLIC USE AND IN A CONDITION MEETING THE APPROVAL OF THE GN OR ITS REPRESENTATIVE.
11. ALL CONSTRUCTION ACTIVITIES AFFECTING THE MUNICIPALITY'S OPERATIONS SHALL BE APPROVED IN ADVANCE WITH MUNICIPALITY AUTHORITIES.
12. ALL REGULATORY APPROVALS MUST BE IN PLACE BEFORE THE CONTRACTOR IS ALLOWED TO COMMENCE CONSTRUCTION ACTIVITIES.
13. ALL MATERIALS OR EQUIPMENT SHIPPED TO THE SITE SHALL BE DELIVERED TO AN APPROVED SITE ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE SHIPMENT, LOADING AND UNLOADING OF ALL MATERIALS TRANSPORTED TO THE SITE.
15. THE CONTRACTOR IS RESPONSIBLE FOR REINSTATING THE SITE FOLLOWING THE COMPLETION OF THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT THE EXISTING CONDITIONS AND REINSTATE ALL DISTURBED AREAS INCLUDING STAGING AND STORAGE AREAS TO EXISTING CONDITIONS OR BETTER.
16. DEVELOPMENT AND IMPLEMENTATION OF A HEALTH AND SAFETY PLAN IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO FOLLOW ALL APPLICABLE REGULATIONS PRESCRIBED BY LOCAL, TERRITORIAL AND FEDERAL AGENCIES.
17. ALL SITE SIGNAGE TO BE TRANSLATED TO OFFICIAL LANGUAGES OF NU. SIGNAGE TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

TRAFFIC MANAGEMENT:

18. THIS PROJECT INCLUDES CONSTRUCTION ACTIVITIES ON AN ACTIVE ROAD. ALL CONSTRUCTION ACTIVITIES SHALL BE UNDERTAKEN IN A MANNER APPROVED BY THE ENGINEER.
19. THE CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
20. CONSTRUCTION MACHINERY AND VEHICLES SHALL COMPLY WITH ALL TRAFFIC REGULATIONS.
21. FULL TIME PUBLIC ACCESS (SINGLE LANE) TO THE MUNICIPALITY AND ITS FACILITIES SHALL BE MAINTAINED AT ALL TIMES.
22. CONTRACTOR IS TO USE APPROVED PRECAST CONCRETE BARRICADES TO DELINEATE OR DIRECT TRAFFIC.
23. ALL CONTRACTOR VEHICLES AND TRAFFIC (UNLESS NOTED OTHERWISE) SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES.
24. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE & OFF-SITE ROUTES AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE MAINTAINED IN WORKING ORDER AND MEET THE REQUIREMENTS OF THE GN OR ITS REPRESENTATIVE. ALL COSTS ASSOCIATED TO THE MAINTENANCE OF THE HAUL ROADS SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICES.

EROSION AND SEDIMENT CONTROL (ESC):

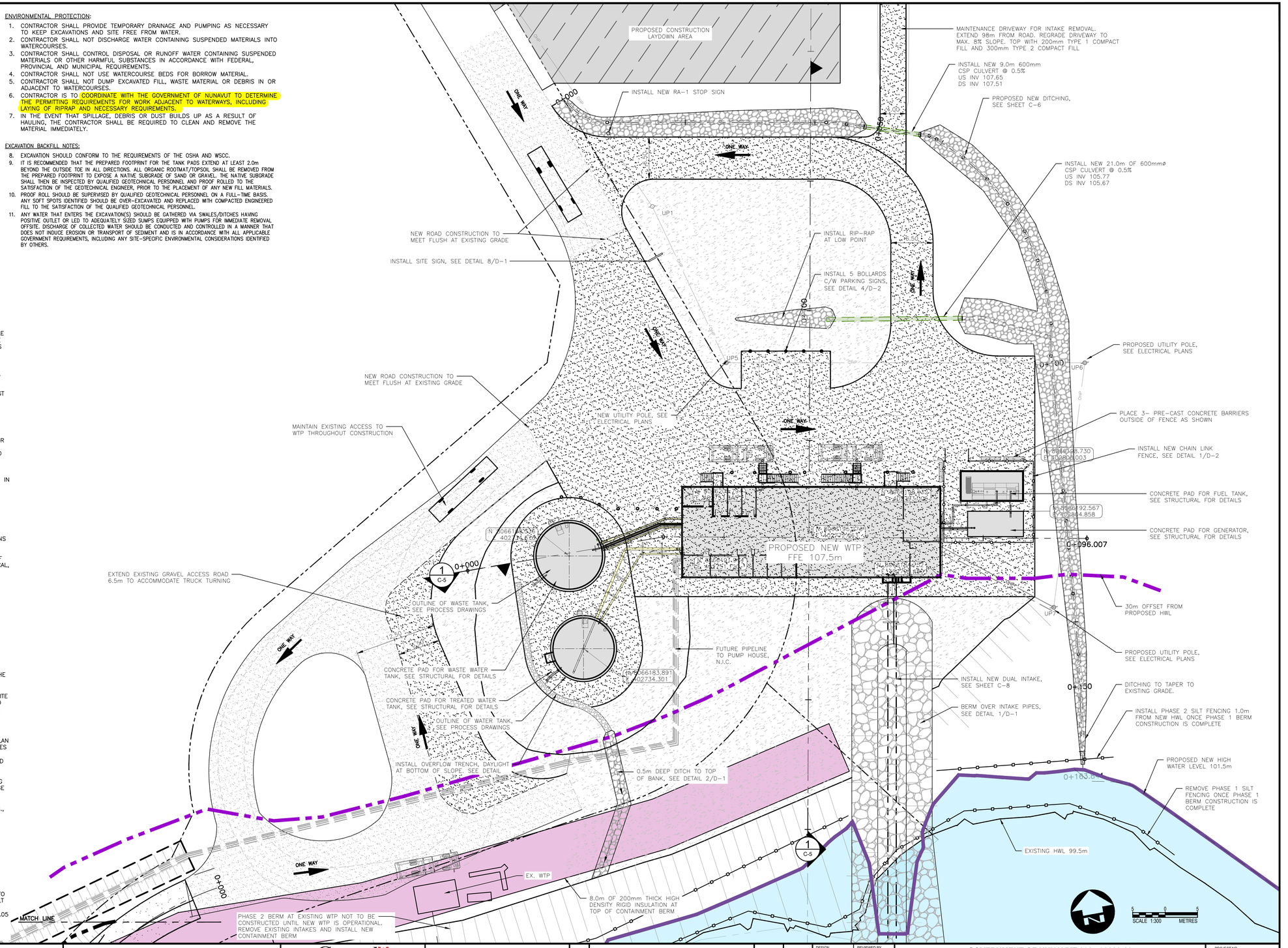
25. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO DEVELOP AND SUBMIT AN ESC PLAN TO THE GN OR ITS REPRESENTATIVE FOR APPROVAL DETAILING THE EROSION CONTROL MEASURES FOR EACH PHASE OF THE PROJECT.
26. THE IMPLEMENTATION OF ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETE.
27. THE ESC FACILITIES MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS AND ADJACENT PROPERTIES IS MINIMIZED.
28. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS. (E.G., ADDITIONAL PUMPS, RELOCATION OF SWALES AND SILT FENCES, ETC.)
29. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE SITE SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
30. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
31. CONTRACTOR SHALL ERECT SILT BARRIER FENCES AS REQUIRED OR AS DIRECTED BY THE ENGINEER.
32. SILT FENCES/BARRIERS SHALL BE MANUFACTURED FROM A NON-WOVEN, SLIT FILM GEOTEXTILE MATERIAL, DESIGNED TO REDUCE VELOCITY OF RUNOFF TO POINT THAT SUSPENDED PARTICLES SETTLE OUT DUE TO REDUCTION OF HYDRAULIC ENERGY.
33. SILT BARRIERS SHALL BE PLACED IN A MANNER THAT WILL INTERCEPT RUNOFF AT OR CLOSE TO RIGHT ANGLES TO THE FLOW. IN AREAS WHERE PROBLEM IS SEVERE, ERECT TWO OR MORE SILT BARRIERS PARALLEL TO EACH OTHER UNTIL DEGREE OF CONTROL IS ACHIEVED.
34. SILT BARRIERS SHALL HAVE: A MINIMUM GRAB TENSILE STRENGTH OF 500N, PERMITTIVITY OF 0.05 s^{-1} PER ASTM D4491. ALL SILT BARRIERS TO COMPLY WITH LATEST RELEASED EDITION OF THE STANDARD D4491(STANDARD TEST METHODS FOR WATER PERMEABILITY OF GEOTEXTILES BY PERMITTIVITY)

ENVIRONMENTAL PROTECTION:

1. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE AND PUMPING AS NECESSARY TO KEEP EXCAVATIONS AND SITE FREE FROM WATER.
2. CONTRACTOR SHALL NOT DISCHARGE WATER CONTAINING SUSPENDED MATERIALS INTO WATERCOURSES.
3. CONTRACTOR SHALL CONTROL DISPOSAL OR RUNOFF WATER CONTAINING SUSPENDED MATERIALS OR OTHER HARMFUL SUBSTANCES IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND MUNICIPAL REQUIREMENTS.
4. CONTRACTOR SHALL NOT USE WATERCOURSE BEDS FOR BORROW MATERIAL.
5. CONTRACTOR SHALL NOT DUMP EXCAVATED FILL, WASTE MATERIAL OR DEBRIS IN OR ADJACENT TO WATERCOURSES.
6. CONTRACTOR IS TO COORDINATE WITH THE GOVERNMENT OF NUNAVUT TO DETERMINE THE PERMITTING REQUIREMENTS FOR WORK ADJACENT TO WATERWAYS, INCLUDING LAYING OF RIPRAP AND NECESSARY REQUIREMENTS.
7. IN THE EVENT THAT SPILLAGE, DEBRIS OR DUST BUILDS UP AS A RESULT OF HAULING, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN AND REMOVE THE MATERIAL IMMEDIATELY.

EXCAVATION BACKFILL NOTES:

8. EXCAVATION SHOULD CONFORM TO THE REQUIREMENTS OF THE OSHA AND WSCC.
9. IT IS RECOMMENDED THAT THE PREPARED FOOTPRINT FOR THE TANK PADS EXTEND AT LEAST 2.0m BEYOND THE OUTSIDE TOE IN ALL DIRECTIONS. ALL ORGANIC ROOTMAT/TOPSOIL SHALL BE REMOVED FROM THE PREPARED FOOTPRINT TO EXPOSE A NATIVE SUBGRADE OF SAND OR GRAVEL. THE NATIVE SUBGRADE SHALL THEN BE INSPECTED BY QUALIFIED GEOTECHNICAL PERSONNEL AND PROOF ROLLED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, PRIOR TO THE PLACEMENT OF ANY NEW FILL MATERIALS.
10. PROOF ROLL SHOULD BE SUPERVISED BY QUALIFIED GEOTECHNICAL PERSONNEL ON A FULL-TIME BASIS. ANY SOFT SPOTS IDENTIFIED SHOULD BE OVER-EXCAVATED AND REPLACED WITH COMPACTED ENGINEERED FILL TO THE SATISFACTION OF THE QUALIFIED GEOTECHNICAL PERSONNEL.
11. ANY WATER THAT ENTERS THE EXCAVATION(S) SHOULD BE GATHERED VIA SWALES/DITCHES HAVING POSITIVE OUTLET OR LED TO ADEQUATELY SIZED SUMPS EQUIPPED WITH PUMPS FOR IMMEDIATE REMOVAL OFFSITE. DISCHARGE OF COLLECTED WATER SHOULD BE CONDUCTED AND CONTROLLED IN A MANNER THAT DOES NOT INDUCE EROSION OR TRANSPORT OF SEDIMENT AND IS IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT REQUIREMENTS, INCLUDING ANY SITE-SPECIFIC ENVIRONMENTAL CONSIDERATIONS IDENTIFIED BY OTHERS.



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Date April 22, 2026
PERMIT NUMBER: P 010
NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GRACEY
LICENSEE
L 5088
NT/NU

ISSUED FOR CONSTRUCTION

Canada
Nunavut

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0	ISSUED FOR TENDER	2025-Nov-10	LW

DESIGN LEW | REVIEWED BY KJ
DRAWN LEW | CHECKED BY SJG
DATE APRIL 2026
SCALE 1:300

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT
SITE PLAN

PROJECT NO. 24-7458
SHEET NO. C-2

FILENAME: C:\USERS\SLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-0-4 C-9-11 POND INLET WTP PLANS.DWG
PLOT DATE: 2026-04-21 @ 11:33:18 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION / GRADE SLOPE
- EXISTING SPOT ELEVATION
- PROPOSED STEEL BOLLARD / BOULDER
- EXISTING UTILITY POLE / EXISTING GUY WIRE
- EXISTING OVERHEAD WIRE
- APPROX. 30m OFFSET FROM WATER LEVEL
- PROPOSED DITCHING
- PROPOSED BERM AND NEW INTAKE LINES
- SILT FENCING
- NEW GRAVEL DRIVE/PARKING AREA
- FILL RECLAIMED FROM SITE IN AREAS OUTSIDE OF ROADS AND PARKING AREAS
- 8.0m OF 200mm THICK HIGH-DENSITY RIGID INSULATION AT TOP OF CONTAINMENT BERM

Type 1, Type 2 and Select Subgrade Materials Gradation

Gradation (Sieve/% Passing)	Type 1 (Base)	Type 2 (Sub-Base)	Select Subgrade
150mm	-	-	100
75.0mm	-	100	-
37.5mm	-	-	-
25.0mm	100	50-100	50-100
19.0mm	75-100	-	45-100
9.5mm	50-85	-	-
4.75mm	35-65	20-55	20-70
2.0mm	25-50	-	-
0.425mm	15-30	5-35	5-45
0.300mm	-	-	-
0.150mm	-	-	-
0.075mm	5-8	0-8	0-20

EXIT ROAD						
No.	START STATION	START POINT	LENGTH (m)	RADIUS (m)	END STATION	END POINT
L1	0+000.000	N8066258.321 E402747.794	37.467		0+037.467	N8066251.612 E402784.655
C1	0+037.467	N8066251.612 E402784.655	20.813	13.250	0+058.280	N8066236.203 E402795.318
L2	0+058.280	N8066236.203 E402795.318	21.720		0+080.000	N8066214.834 E402791.429

PROPERTY LINE

USE FILL RECLAIMED FROM SITE IN AREAS OUTSIDE OF ROADS AND PARKING AREAS. FILL TO BE APPROVED BY GEOTECHNICAL ENGINEER

MAINTENANCE DRIVEWAY FOR INTAKE REMOVAL. EXTEND 84m FROM ROAD. REGRADE DRIVEWAY TO MAX. 8% SLOPE. TOP WITH 200mm TYPE 1 COMPACT FILL AND 300mm TYPE 2 COMPACT FILL

9.0m OF NEW 600mmø CSP CULVERT @ 0.5%
US INV 107.65
DS INV 107.514

PROPOSED DITCHING, SLOPE 2-5% TOWARDS RESERVOIR

21.0m OF NEW 600mmø CSP CULVERT @ 0.5%
US INV 105.77
DS INV 105.67

EXISTING UTILITY POLE, SEE ELECTRICAL PLANS

PROPOSED CONSTRUCTION LAYDOWN AREA

PROPOSED UTILITY POLE, SEE ELECTRICAL PLANS

CONCRETE PAD FOR FUEL TANK, SEE STRUCTURAL FOR DETAILS

CONCRETE PAD FOR GENERATOR ENCLOSURE, SEE STRUCTURAL FOR DETAILS

PROPOSED WTP FFE 107.5

CONCRETE PAD FOR WASTE WATER TANK, SEE STRUCTURAL FOR DETAILS

FUTURE PIPELINE TO PUMP HOUSE, N.I.C.

INSTALL OVERFLOW TRENCH, DAYLIGHT AT BOTTOM OF SLOPE, SEE DETAIL

CONCRETE PAD FOR TREATED WATER TANK, SEE STRUCTURAL FOR DETAILS

PROPOSED UTILITY POLE, SEE ELECTRICAL PLANS

USE FILL RECLAIMED FROM SITE IN AREAS OUTSIDE OF ROADS AND PARKING AREAS. FILL TO BE APPROVED BY GEOTECHNICAL ENGINEER

DITCHING TO TAPER TO EXISTING GRADE.

TOE OF SLOPE

PHASE 2 BERM AT EXISTING WTP NOT TO BE CONSTRUCTED UNTIL NEW WTP IS OPERATIONAL. REMOVE EXISTING INTAKES AND INSTALL NEW CONTAINMENT BERM

EX WTP

MATCH LINE

CUT EXISTING GRADE, 3:1 SLOPE

FILL GRADE WHERE REQUIRED, 3:1 SLOPE TO EXISTING

MAINTENANCE DRIVEWAY PLAN

SCALE 1:300 METRES

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2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S. J. GRACEY
LICENSEE
L 5088
NT/NU

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DRAWN LEW | CHECKED BY SJG
DATE APRIL 2026
SCALE 1:300

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT
GRADING PLAN

PROJECT NO. 24-7458
SHEET NO. C-3

FILENAME: C:\USERS\SLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-0-4; C-3-11 POND INLET WTP PLANS.DWG
PLOT DATE: 2026-04-21 @ 11:38:44 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB
PLOTTED BY: STEVEN GRACEY

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (13.0)
- CUT/FILL FROM EXISTING CONDITION TO FINISHED GRADE (14.00)
- PROPOSED STEEL BOLLARD / BOULDER
- EXISTING UTILITY POLE / EXISTING GUY WIRE (GW, UP)
- EXISTING OVERHEAD WIRE (OH)
- APPROX. 30m OFFSET FROM WATER LEVEL
- PROPOSED DITCHING
- PROPOSED BERM AND NEW INTAKE LINES
- SILT FENCING

ELEVATION LEGEND	
ELEVATION RANGE (m)	COLOUR
−6.0m TO −4.5m	
−4.5m TO −3.0m	
−3.0m TO −1.5m	
−1.5m TO 0.00m	
0.00m TO +1.5m	
+1.5m TO +3.0m	
+3.0m TO +4.5m	
+4.5m TO +6.0m	

ESTIMATED QUANTITIES FOR WTP SITE	
FILL TYPE	QUANTITY
TYPE 1	1,745 m^3
TYPE 2	3,030 m^3
SELECT STRUCTURAL	5,000 m^3
RECLAIMED MATERIAL	1,110 m^3

NOTE:
1. QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CUT AND FILL QUANTITIES PRIOR TO START OF WORK.
2. CLAIMS FOR ADDITIONAL PAYMENT WILL NOT BE ACCEPTED IF FILL QUANTITIES ARE BEYOND FIGURES SHOWN ABOVE.
3. QUANTITIES ABOVE DO NOT INCLUDED GRANULAR MATERIAL NEEDED FOR LEVELING AND GRADING OF CAMP AND LAYDOWN FACILITIES.

PROPERTY LINE
ONE WAY
0+000
0+080
EX WTP
MATCH LINE
UP1
L1
L2
SCALE 1:300 METRES

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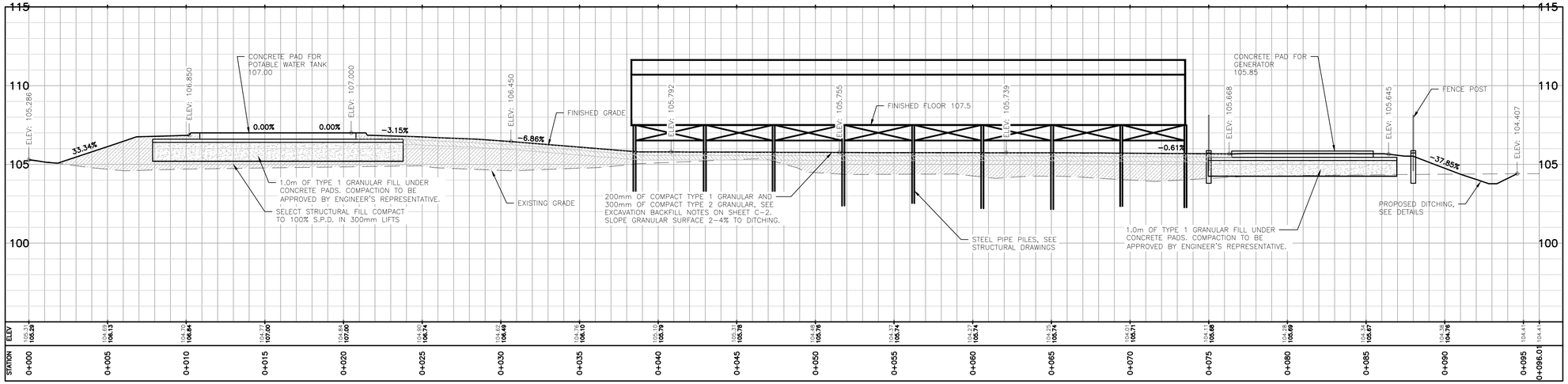
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DATE APRIL 2026
SCALE 1:300

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT
CUT AND FILL PLAN

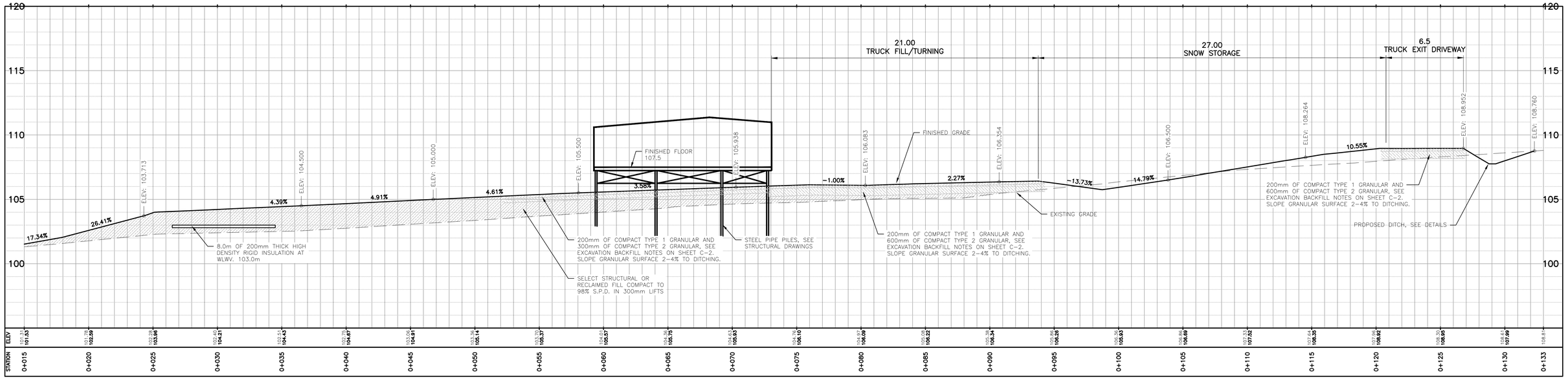
PROJECT NO. 24-7458
SHEET NO. C-4

FILENAME: C:\USERS\SSLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-0-4; C-9-11 POND INLET WTP PLANS.DWG PLOTTED BY: SSLEW
PLOT DATE: 2026-04-21 @ 11:40:30 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



1 C-5 SITE SECTION
1:150

SCALE 1:150 METRES



2 C-5 SITE SECTION
1:150

SCALE 1:150 METRES

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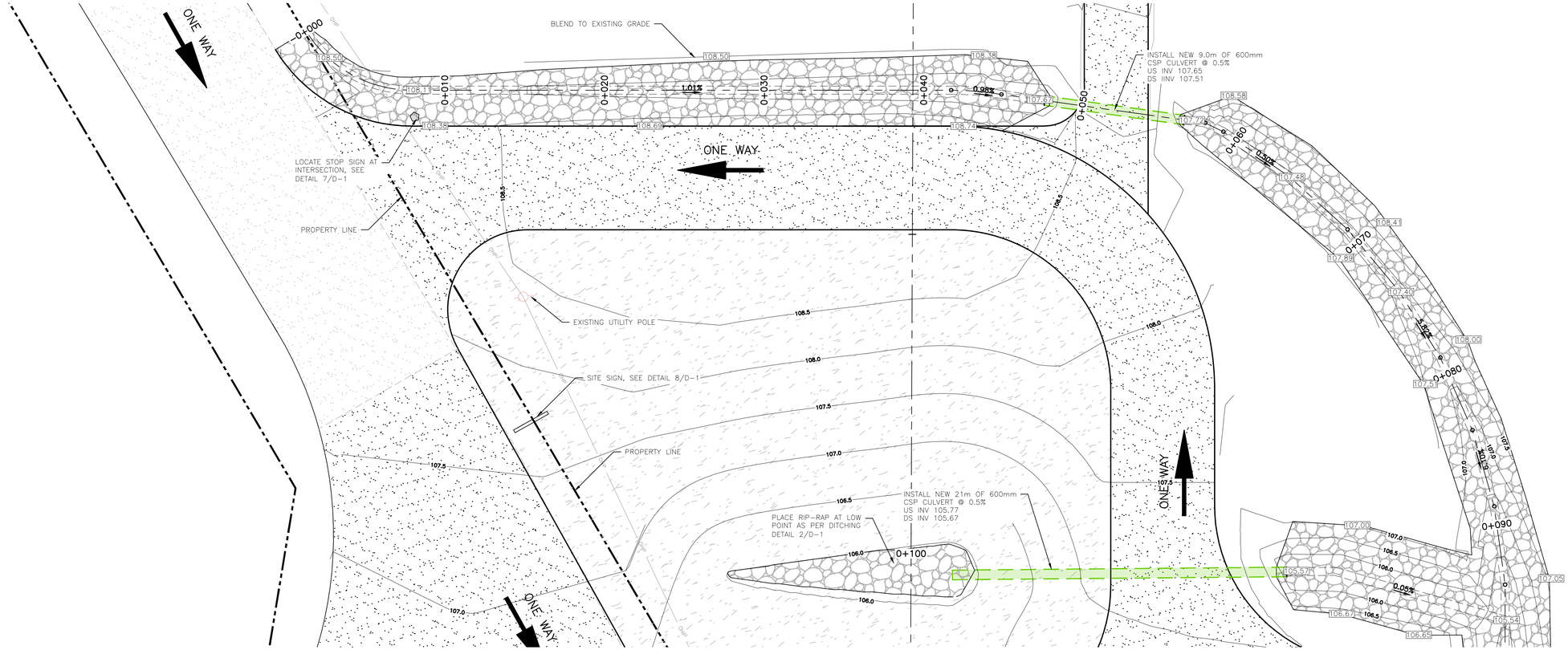
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DATE APRIL 2026
SCALE 1:150

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT
SITE SECTIONS

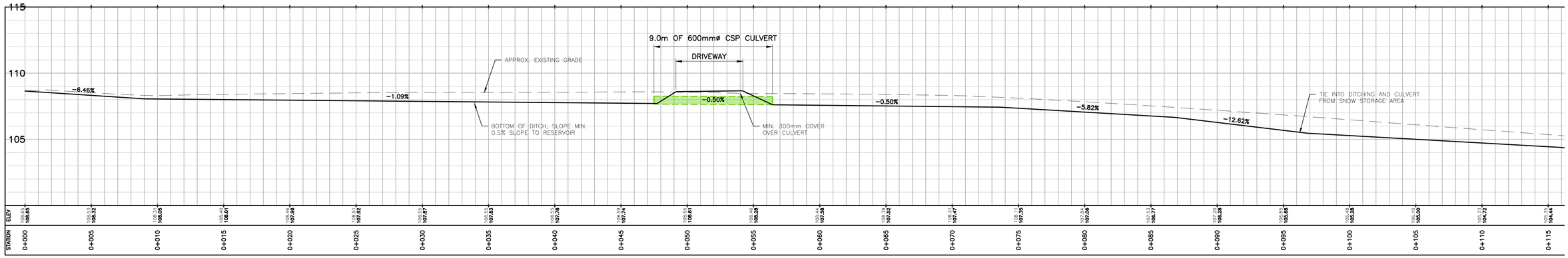
PROJECT NO. 24-7458
SHEET NO. C-5

FILENAME: C:\USERS\SGLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WIP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-4_C-11 POND INLET WTP SECTIONS.DWG PLOTTED BY: JOHN WOODFORD, LYDIA
PLOT DATE: 2026-04-21 @ 11:41:26 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



1 C-6 PLAN
1:150

SCALE 1:150 METRES



STATION	ELEV
0+000	108.65
0+005	108.32
0+010	108.05
0+015	108.01
0+020	107.96
0+025	107.92
0+030	107.87
0+035	107.83
0+040	107.78
0+045	107.74
0+050	108.61
0+055	108.26
0+060	107.56
0+065	107.52
0+070	107.47
0+075	107.35
0+080	107.06
0+085	106.77
0+090	106.28
0+095	106.66
0+100	105.28
0+105	105.00
0+110	104.72
0+115	104.44

2 C-6 PROFILE
1:150

SCALE 1:150 METRES

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2026-04-27
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S.J. GISSLER
LICENSEE
L 5088
NT/NU

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1	ISSUED FOR CONSTRUCTION	2026-Apr-24	SJG
0	ISSUE FOR TENDER	2025-Nov-10	LW

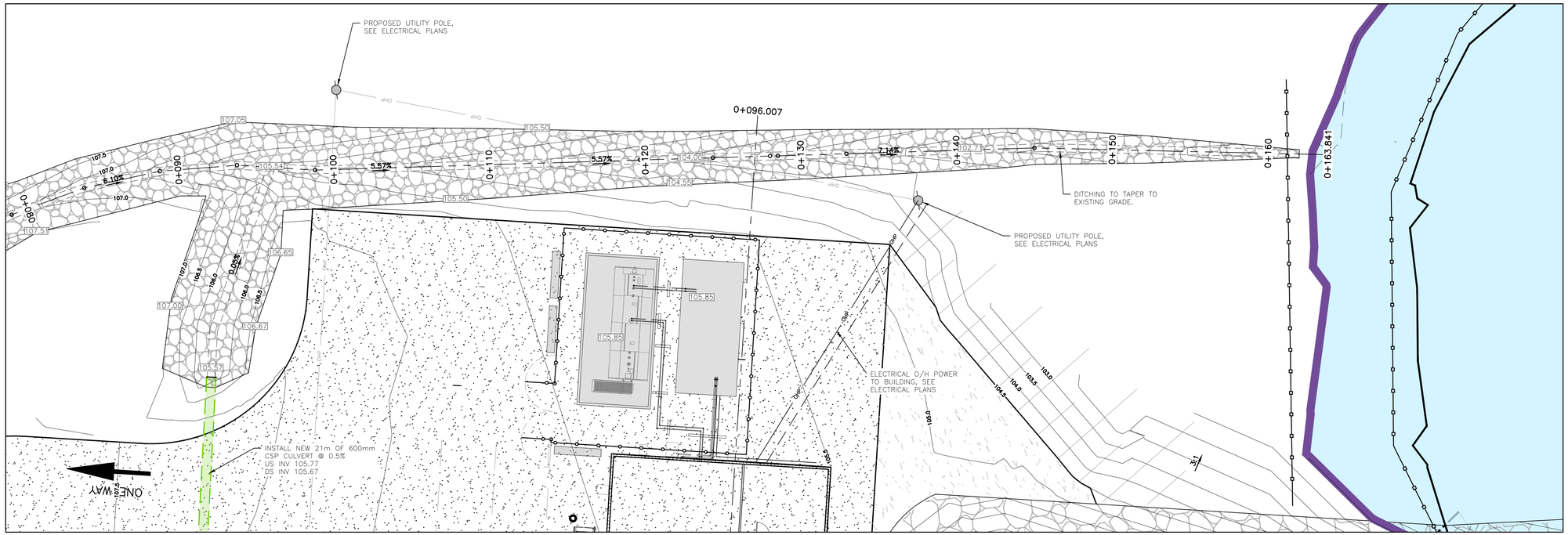
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DRAWN LEW | CHECKED BY SJG
DATE APRIL 2026
SCALE 1:150

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT
STORM DRAINAGE DITCH

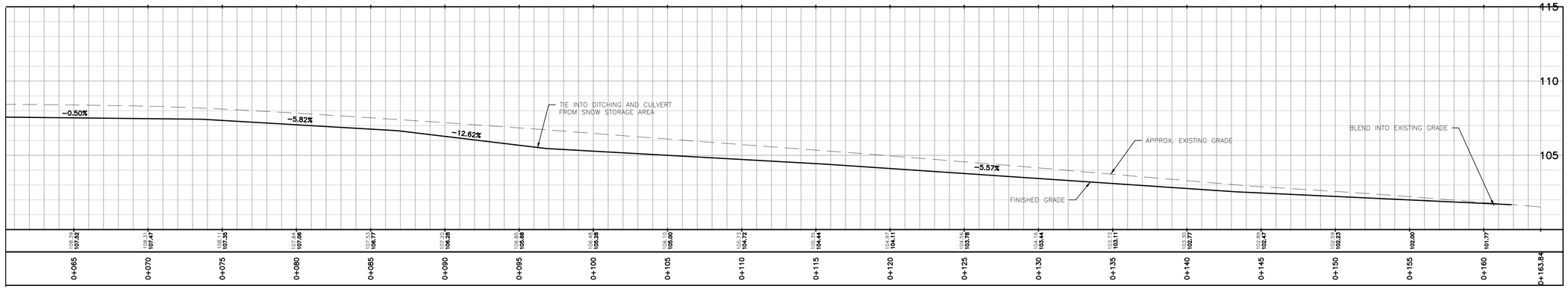
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SHEET NO. C-6

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1 C-7 PLAN
1:150

SCALE 1:150 METRES



2 C-7 RPOFILE
1:150

SCALE 1:150 METRES

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PERMIT NUMBER: P 010
NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GISECKE
LICENSEE
L 5088
NT/NU

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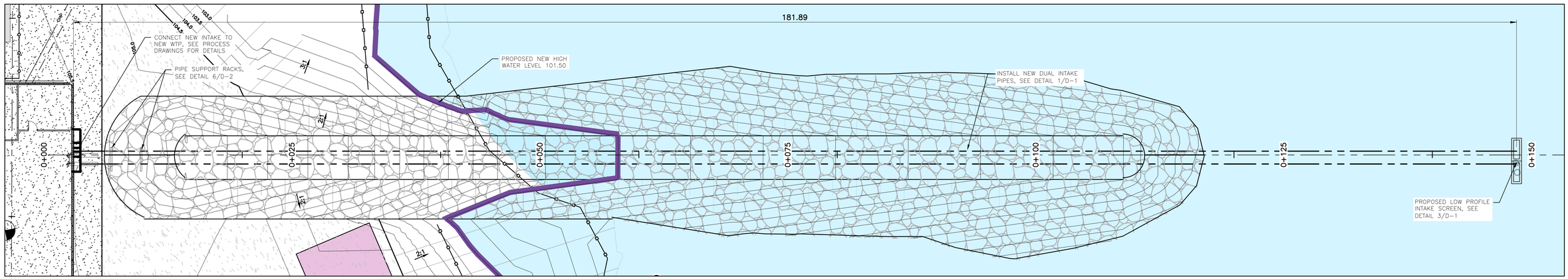
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SCALE AS SHOWN

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

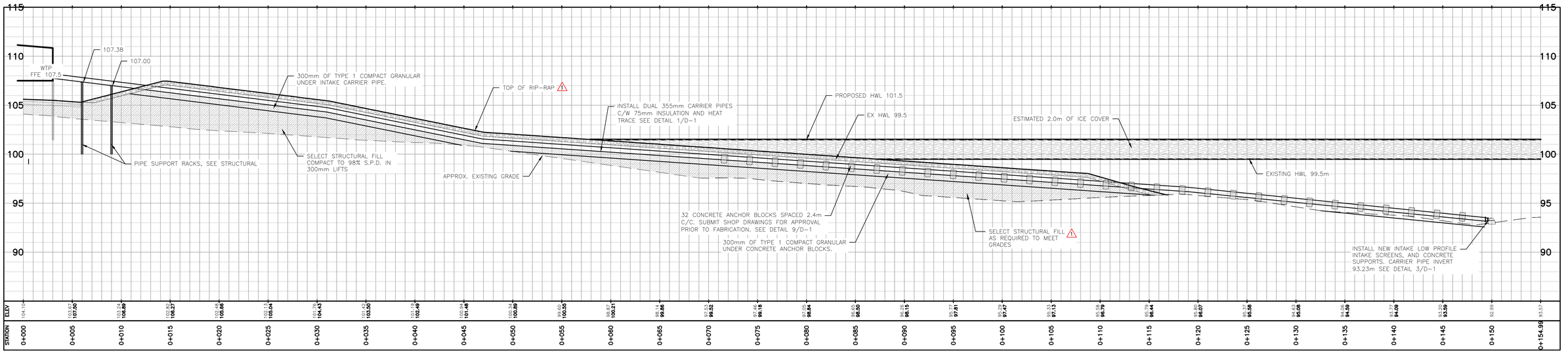
WATER TREATMENT PLANT
STORM DRAINAGE DITCH

PROJECT NO. 24-7458
SHEET NO. C-7

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1 C-8 INTAKE PLAN
1:200



2 C-8 INTAKE PROFILE
1:200

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PLOT DATE: 2026-04-21 ● 11:55:39 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

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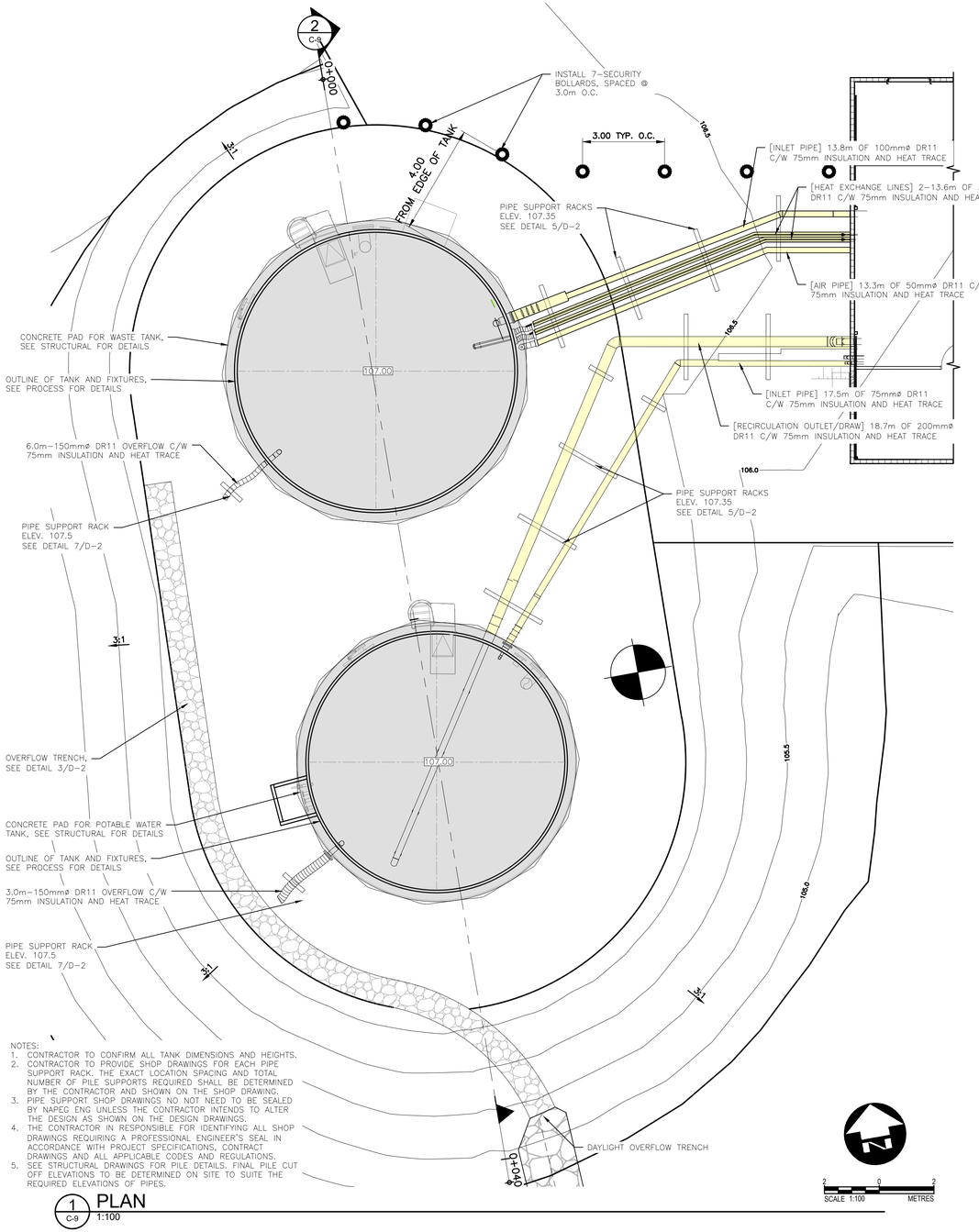
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GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

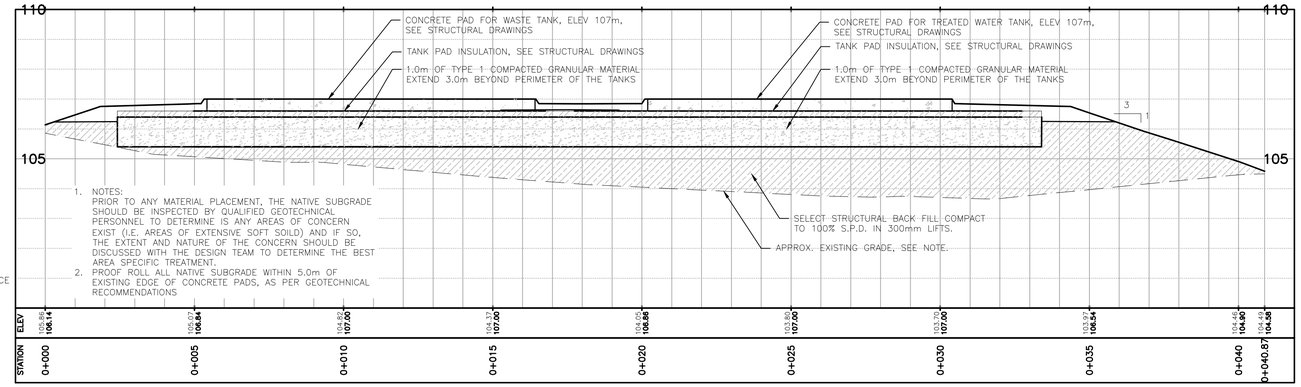
INTAKE PLAN AND PROFILE

PROJECT NO. 24-7458
SHEET NO. C-8



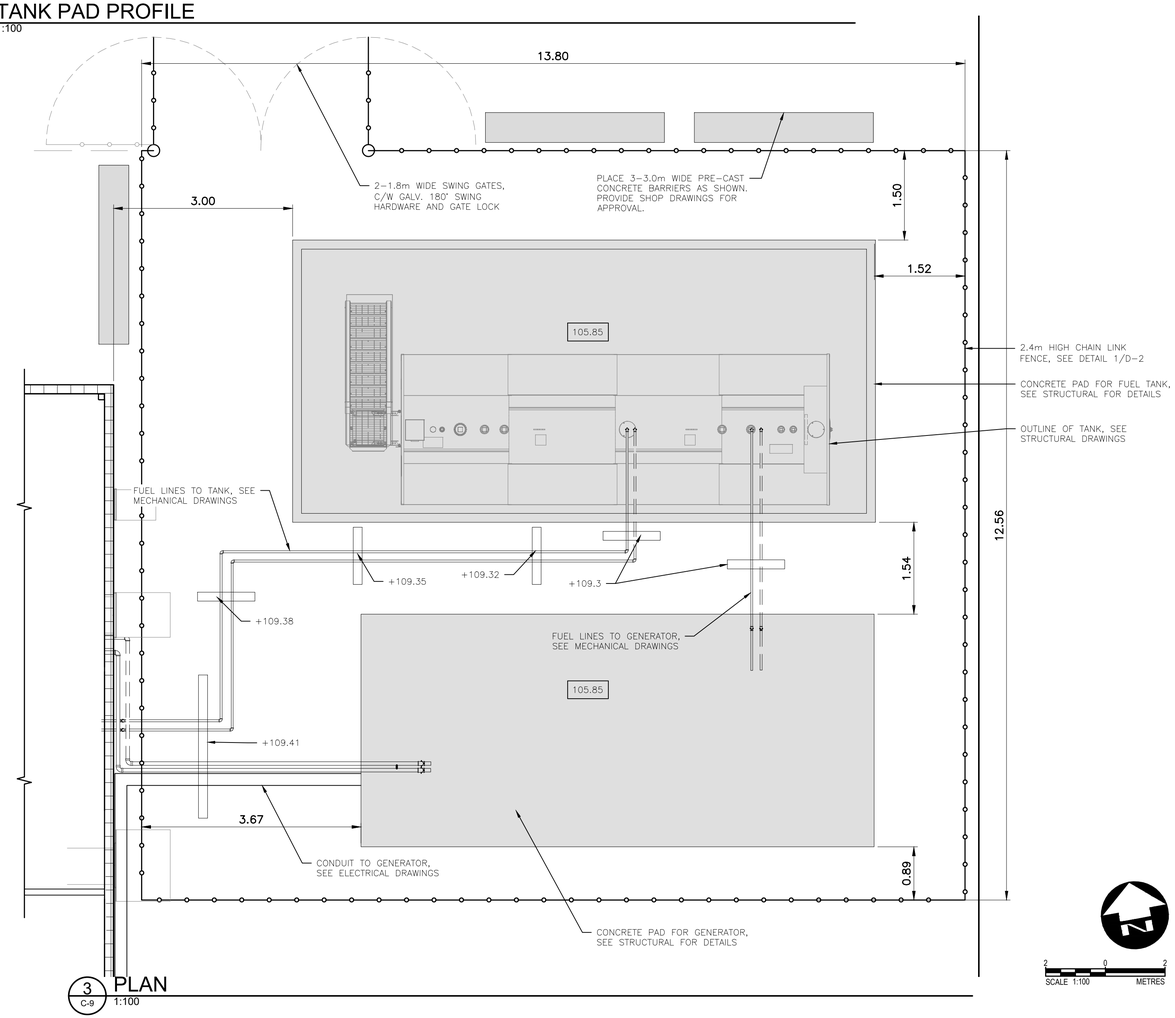
NOTES:
1. CONTRACTOR TO CONFIRM ALL TANK DIMENSIONS AND HEIGHTS.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR EACH PIPE SUPPORT RACK. THE EXACT LOCATION SPACING AND TOTAL NUMBER OF PILE SUPPORTS REQUIRED SHALL BE DETERMINED BY THE CONTRACTOR AND SHOWN ON THE SHOP DRAWING.
3. PIPE SUPPORT SHOP DRAWINGS NO NOT NEED TO BE SEALED BY NAPEG ENG UNLESS THE CONTRACTOR INTENDS TO ALTER THE DESIGN AS SHOWN ON THE DESIGN DRAWINGS.
4. THE CONTRACTOR IN RESPONSIBLE FOR IDENTIFYING ALL SHOP DRAWINGS REQUIRING A PROFESSIONAL ENGINEER'S SEAL IN ACCORDANCE WITH PROJECT SPECIFICATIONS, CONTRACT DRAWINGS AND ALL APPLICABLE CODES AND REGULATIONS.
5. SEE STRUCTURAL DRAWINGS FOR PILE DETAILS. FINAL PILE CUT OFF ELEVATIONS TO BE DETERMINED ON SITE TO SUITE THE REQUIRED ELEVATIONS OF PIPES.

1 C-9 PLAN 1:100



1. NOTES:
PRIOR TO ANY MATERIAL PLACEMENT, THE NATIVE SUBGRADE SHOULD BE INSPECTED BY QUALIFIED GEOTECHNICAL PERSONNEL TO DETERMINE IS ANY AREAS OF CONCERN EXIST (I.E. AREAS OF EXTENSIVE SOFT SOILD) AND IF SO, THE EXTENT AND NATURE OF THE CONCERN SHOULD BE DISCUSSED WITH THE DESIGN TEAM TO DETERMINE THE BEST AREA SPECIFIC TREATMENT.
2. PROOF ROLL ALL NATIVE SUBGRADE WITHIN 5.0m OF EXISTING EDGE OF CONCRETE PADS, AS PER GEOTECHNICAL RECOMMENDATIONS

2 C-9 TANK PAD PROFILE 1:100



3 C-9 PLAN 1:100

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LICENSEE
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GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

WATER TREATMENT PLANT
PLAN DETAILS

PROJECT NO. 24-7458
SHEET NO. C-9

FILENAME: C:\USERS\SGLEW\DCV\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-6_C-11 POND INLET WTP SECTIONS.DWG PLOTTED BY: JOHN WOODFORD, LYDIA PLOT DATE: 2026-04-27 @ 11:57:15 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

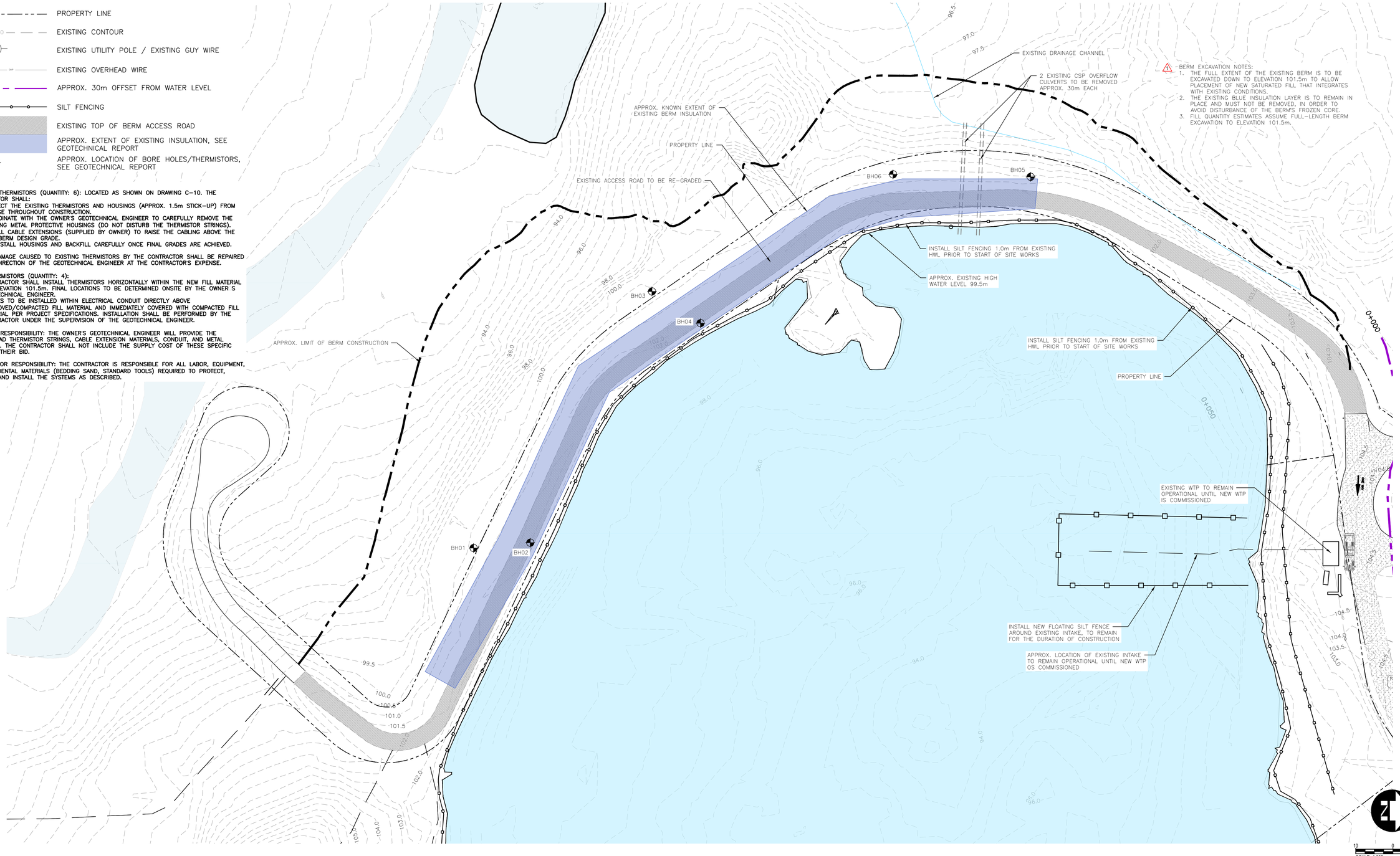
LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING UTILITY POLE / EXISTING GUY WIRE
- EXISTING OVERHEAD WIRE
- APPROX. 30m OFFSET FROM WATER LEVEL
- SILT FENCING
- EXISTING TOP OF BERM ACCESS ROAD
- APPROX. EXTENT OF EXISTING INSULATION, SEE GEOTECHNICAL REPORT
- APPROX. LOCATION OF BORE HOLES/THERMISTORS, SEE GEOTECHNICAL REPORT

NOTES:

1. EXISTING THERMISTORS (QUANTITY: 6): LOCATED AS SHOWN ON DRAWING C-10. THE CONTRACTOR SHALL:
   - PROTECT THE EXISTING THERMISTORS AND HOUSINGS (APPROX. 1.5m STICK-UP) FROM DAMAGE THROUGHOUT CONSTRUCTION.
   - COORDINATE WITH THE OWNER'S GEOTECHNICAL ENGINEER TO CAREFULLY REMOVE THE EXISTING METAL PROTECTIVE HOUSINGS (DO NOT DISTURB THE THERMISTOR STRINGS).
   - INSTALL CABLE EXTENSIONS (SUPPLIED BY OWNER) TO RAISE THE CABLING ABOVE THE NEW BERM DESIGN GRADE.
   - RE-INSTALL HOUSINGS AND BACKFILL CAREFULLY ONCE FINAL GRADES ARE ACHIEVED.

   NOTE: ANY DAMAGE CAUSED TO EXISTING THERMISTORS BY THE CONTRACTOR SHALL BE REPAIRED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. NEW THERMISTORS (QUANTITY: 4):
   - CONTRACTOR SHALL INSTALL THERMISTORS HORIZONTALLY WITHIN THE NEW FILL MATERIAL AT ELEVATION 101.5m. FINAL LOCATIONS TO BE DETERMINED ONSITE BY THE OWNER'S GEOTECHNICAL ENGINEER.
   - CABLES TO BE INSTALLED WITHIN ELECTRICAL CONDUIT DIRECTLY ABOVE APPROVED/COMPACTED FILL MATERIAL AND IMMEDIATELY COVERED WITH COMPACTED FILL MATERIAL PER PROJECT SPECIFICATIONS. INSTALLATION SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
3. OWNER'S RESPONSIBILITY: THE OWNER'S GEOTECHNICAL ENGINEER WILL PROVIDE THE MULTI-BEAD THERMISTOR STRINGS, CABLE EXTENSION MATERIALS, CONDUIT, AND METAL HOUSINGS. THE CONTRACTOR SHALL NOT INCLUDE THE SUPPLY COST OF THESE SPECIFIC ITEMS IN THEIR BID.
4. CONTRACTOR RESPONSIBILITY: THE CONTRACTOR IS RESPONSIBLE FOR ALL LABOR, EQUIPMENT, AND INCIDENTAL MATERIALS (BEDDING SAND, STANDARD TOOLS) REQUIRED TO PROTECT, EXTEND, AND INSTALL THE SYSTEMS AS DESCRIBED.



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2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GRASLEY
LICENSEE
L 5088
NT/NU

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Canada
Nunavut

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0	ISSUED FOR TENDER	2025-Nov-10	LW

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DRAWN	CHECKED BY
LEW	SJG
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APRIL 2026	
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GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

PROJECT NO. 24-7458

BERM EXISTING CONDITIONS

SHEET NO. C-10

LEGEND

- PROPERTY LINE
- LIMIT OF CONSTRUCTION
- EXISTING UTILITY POLE / EXISTING GUY WIRE
- EXISTING OVERHEAD WIRE
- APPROX. 30m OFFSET FROM WATER LEVEL
- PROPOSED DITCHING
- PROPOSED BERM AND NEW INTAKE LINES
- SILT FENCING
- NEW GRAVEL DRIVE/PARKING AREA
- 8.0m OF 200mm THICK HIGH-DENSITY RIGID INSULATION AT TOP OF CONTAINMENT BERM

NOTES:
1. CONTRACTOR: INSTALL NEW WATER LEVEL MONITORING REBAR. EXACT LOCATION ALONG THE RESERVOIR'S EDGE TO BE DIRECTED BY THE CONSULTANT ONSITE.
2. CONSULTANT: MARK REBAR AT THE APPROPRIATE TEMPORARY HWL (100.7m).
3. CONTRACTOR: COMPLETE RESUPPLY OF RESERVOIR DURING YEAR 2, 3 AND 4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE WATER LEVEL IS MAINTAINED BELOW THE APPROVED WATER LEVEL. THE CONTRACTOR WILL USED THE RESUPPLY PUMP PROVIDED BY THE MUNICIPALITY FOR THIS ACTIVITY AND SHALL UNDERTAKE ANNUAL GENERAL SERVICING OF THE PUMP PRIOR TO COMMENCING RESUPPLY. RESUPPLY IS EXPECTED TO COMMENCE IN EARLY AUGUST, AND TAKE UP TO SIX (6) WEEKS. THE OWNER WILL RESUME FULL RESPONSIBILITY FOR RESUPPLY IN YEAR FIVE (5).
4. CONTRACTOR: RE-INSTALL REBAR SEASONALLY OR ANNUALLY, AS REQUIRED, IF IT BECOMES DISLODGED AFTER INITIAL INSTALLATION IN SPRING OF 2027. RE-INSTALL REBAR FOLLOWING SUBSTANTIAL COMPLETION (2028) PRIOR TO DEMOBILIZING FROM THE SITE.

BERM EXCAVATION NOTES:
1. THE FULL EXTENT OF THE EXISTING BERM IS TO BE EXCAVATED DOWN TO ELEVATION 101.5m TO ALLOW PLACEMENT OF NEW SATURATED FILL THAT INTEGRATES WITH EXISTING CONDITIONS.
2. THE EXISTING BLUE INSULATION LAYER IS TO REMAIN IN PLACE AND MUST NOT BE REMOVED, IN ORDER TO AVOID DISTURBANCE OF THE BERM'S FROZEN CORE.
3. FILL QUANTITY ESTIMATES ASSUME FULL-LENGTH BERM EXCAVATION TO ELEVATION 101.5m.

INSTALL NEW 40m-800mmø CSP OVERFLOW @ MIN 2% SLOPE US INV 101.5m

FORM DRAINAGE CHANNEL BETWEEN BERM AND EXISTING GRADE SLOPE TO EXISTING RIVER. LINE CHANNEL WITH RIP-RAP AS PER DETAIL 2/D-1

INSTALL CLASS 2 RIP-RAP 300-450mmø AT BASE OF SLOPE

INSTALL CLASS 2 RIP-RAP 300-450mmø AT BASE OF SLOPE

APPROX. LIMIT OF BERM CONSTRUCTION

CONTRACTOR TO INSTALL 1 -15M REBAR STAKE ON POND SIDE OF BERM. LOCATE REBAR 2.0m FROM PROPOSED WATER LEVEL (101.5m). REBAR TO BE EMBEDDED IN GROUND MIN 3.0m AND EXTEND ABOVE WATER MIN 2.0m

PROPOSED NEW HIGH WATER LEVEL 101.5m

EXISTING PROPERTY LINE

8.0m OF 200mm THICK HIGH DENSITY RIGID INSULATION AT TOP OF CONTAINMENT BERM

FLOATING SILT FENCE

EXISTING INTAKE

PROPOSED NEW 6.0m WIDE ACCESS ROAD ON TOP OF BERM

PROPOSED NEW HIGH WATER LEVEL 101.5m

PHASE 2 BERM CONSTRUCTION TO BE COMPLETED AFTER NEW WTP IS COMMISSIONED AND OPERATIONAL.

GRADE BERM ROAD TO EXISTING TURN AROUND AREA

EMERGENCY OVERFLOW SLIPWAY, 2.0m WIDE, LINE WITH CLASS 2 RIP-RAP

32.69%

25.00%

7.30%

4:1

BERM ROAD

No.	START STATION	START POINT	LENGTH (m)	RADIUS (m)	END STATION	END POINT
C2	0+000.000	N8066157.799 E402672.634	37.758	50.000	0+037.758	N8066139.325 E402640.730
L3	0+037.758	N8066139.325 E402640.730	48.187		0+085.945	N8066101.505 E402610.869
C3	0+085.945	N8066101.505 E402610.869	33.608	50.000	0+119.552	N8066070.330 E402600.112
L4	0+119.552	N8066070.330 E402600.112	6.227		0+125.779	N8066064.103 E402600.136
L5	0+125.779	N8066064.103 E402600.136	22.119		0+147.898	N8066041.990 E402600.621
L6	0+147.898	N8066041.990 E402600.621	7.825		0+155.724	N8066034.171 E402600.936
C4	0+155.724	N8066034.171 E402600.936	21.128	43.008	0+176.852	N8066014.052 E402606.658
L7	0+176.852	N8066014.052 E402606.658	48.318		0+225.170	N8065973.392 E402632.763
L8	0+225.170	N8065973.392 E402632.763	16.994		0+242.165	N8065959.354 E402642.340
C5	0+242.165	N8065959.354 E402642.340	14.103	74.000	0+256.268	N8065948.796 E402651.659
C6	0+256.268	N8065948.796 E402651.659	21.229	56.132	0+277.497	N8065937.400 E402669.420
L9	0+277.497	N8065937.400 E402669.420	60.584		0+338.081	N8065911.027 E402723.963
L10	0+338.081	N8065911.027 E402723.963	13.024		0+351.105	N8065905.491 E402735.751
C7	0+351.105	N8065905.491 E402735.751	40.062	21.258	0+391.167	N8065871.108 E402736.504
L11	0+391.167	N8065871.108 E402736.504	4.251		0+395.419	N8065868.062 E402733.538

SCALE 1:500 METRES

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GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

PROJECT NO. 24-7458

BERM SITE AND GRADING PLAN

SHEET NO. C-11

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PLOTTED BY: SJOHNS WOODFORD, LYDIA

LEGEND

PROPERTY LINE

CUT/FILL FROM EXISTING CONDITION TO FINISHED GRADE

PROPOSED BERM AND NEW INTAKE LINES

SILT FENCING

NEW GRAVEL DRIVE/PARKING AREA

ELEVATION LEGEND	
ELEVATION RANGE (m)	COLOUR
−6.0m TO −4.5m	
−4.5m TO −3.0m	
−3.0m TO −1.5m	
−1.5m TO 0.00m	
0.00m TO +1.5m	
+1.5m TO +3.0m	
+3.0m TO +4.5m	
+4.5m TO +6.0m	

ESTIMATED QUANTITIES FOR BERM CONSTRUCTION	
FILL TYPE	QUANTITY
TYPE 1	1,200 m^3
TYPE 2	1,500 m^3
SELECT STRUCTURAL	22,400 m^3

NOTE:
1. QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CUT AND FILL QUANTITIES PRIOR TO START OF WORK.
2. CLAIMS FOR ADDITIONAL PAYMENT WILL NOT BE ACCEPTED IF FILL QUANTITIES ARE BEYOND FIGURES SHOWN ABOVE.
3. QUANTITIES ABOVE DO NOT INCLUDED GRANULAR MATERIAL NEEDED FOR LEVELING AND GRADING OF CAMP AND LAYDOWN FACILITIES.

0+000

0+050

SCALE 1:500

10 0 10 METRES

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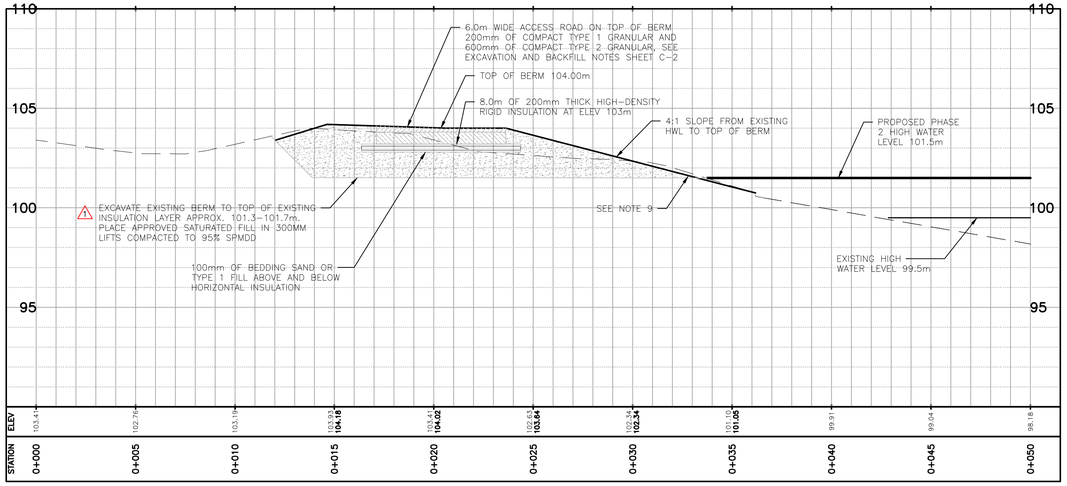
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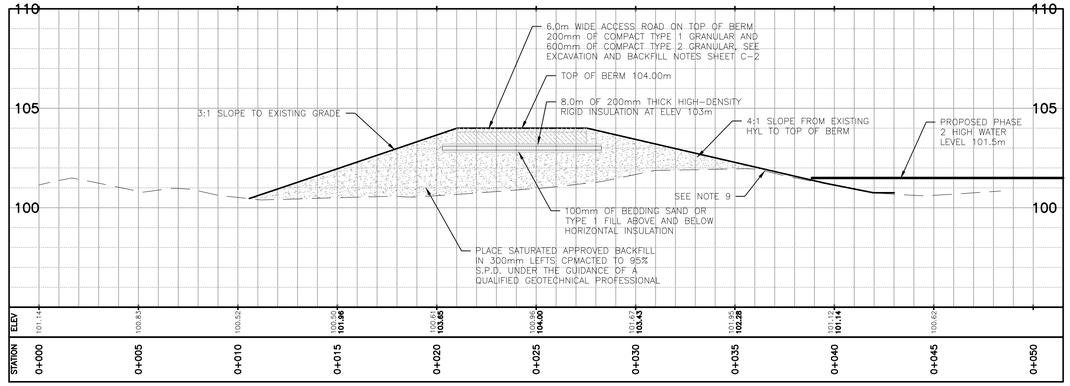
BERM SITE AND GRADING PLAN

SHEET NO. C-12



1 C-13 BERM SECTION
1:150

SCALE 1:150 3 0 3 METRES



2 C-13 BERM SECTION
1:150

SCALE 1:150 3 0 3 METRES

3 C-13 BERM SECTION
1:150

SCALE 1:150 3 0 3 METRES

NOTE:
1. ENGINEERED FILL FOR THE EXPANDED BERM SHOULD COMPRISE OF WELL-GRADED SAND AND GRAVEL, PREFERABLY MEETING THE GRADATION SPECIFICATIONS FOR TYPE 2 OR SELECT STRUCTURAL MATERIAL, PROVIDE IT MEETS THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL ASSESSMENT, AND IS APPROVED BY THE GEOTECHNICAL ENGINEER.
2. FILL MATERIAL PLACED WITHIN THE FROZEN CORE OF NEW BERM CONSTRUCTION TO HAVE MOISTURE CONTENT AT OR SLIGHTLY ABOVE THE STANDARD PROCTOR OPTIMUM MOISTURE CONTENT DETERMINED FOR THE MATERIAL, WHILE STILL ENSURING PROPER COMPACTION CAN BE OBTAINED. ALL FILL MATERIALS PLACED FOR NEW BERM CONSTRUCTION TO BE CLOSELY MONITORED BY QUALIFIED GEOTECHNICAL PERSONNEL ONSITE.

BERM CONSTRUCTION NOTES:

1. THE FROZEN CORE ZONE TO BE CONSIDERED AS THE AREA BENEATH THE LAYER OF NEW HORIZONTAL INSULATION, EXTENDING VERTICALLY DOWN TO THE EXISTING LAYER OF HORIZONTAL INSULATION.
2. THE ENGINEERED FILL PLACED WITHIN THIS ZONE TO BE AT OR NEAR FULL SATURATION TO CREATE A LESS PERMEABLE FROZEN CORE UPON FREEZE BACK.
3. MATERIALS DETERMINED TO BE WET OF OPTIMUM MAY REQUIRE EXTENDED DRY TIME PRIOR TO USE.
4. MATERIALS DETERMINED TO BE DRY OF OPTIMUM MAY REQUIRE THE CAREFUL ADDITION OF WATER AND/OR ADDITIONAL COMPACTION EFFORT TO ACHIEVE THE SPECIFIED DENSITIES.
5. THE EXISTING ROADWAY ALSO BE SATURATED PRIOR TO NEW FILL PLACEMENT BY CAREFULLY AND LIBERALLY ADDING WATER TO THE MATERIAL ALONG THIS ZONE, SOME SCARIFYING OF THE EXISTING SURFACE WILL LIKELY BE NECESSARY TO ALLOW WATER TO PERCOLATE INTO THE MATERIAL MORE FREELY.
6. THE MOISTURE CONTENT FOR FILL PLACED FOR NEW BERM CONSTRUCTION TO BE MONITORED BY QUALIFIED GEOTECHNICAL PERSONNEL, WITH MOISTURE CONTENTS CONTROLLED TO BE AT OR SLIGHTLY ABOVE THE STANDARD PROCTOR OPTIMUM MOISTURE CONTENT DETERMINED FOR THE MATERIAL, WHILE STILL ENSURING PROPER COMPACTION CAN BE OBTAINED. SUBMIT TESTING DATA AS PER SPECIFICATIONS.
7. THE ENGINEERED FILL TO BE PLACED IN MAXIMUM OF 300mm LIFTS AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) DETERMINED FOR THE MATERIAL.
8. THIS WILL REQUIRE THAT THE MATERIAL BE WITHIN ABOUT 2% OF ITS OPTIMUM MOISTURE CONTENT AT THE TIME OF PLACEMENT AND RECEIVE AT LEAST 6 FULL PASSES FROM A 10-TON VIBRATORY COMPACTOR.
9. AS THE EXPANDED BERM IS CONSTRUCTED UP AGAINST THE EXISTING SLOPES, IT WILL BE NECESSARY TO EXCAVATE SLIGHTLY INTO THE EXISTING SLOPE (300mm MAX) AND PULL THAT MATERIAL INTO EACH NEW LIFT SUCH THAT THE OLD AND NEW SLOPE ARE PROPERLY INCORPORATED.
10. HORIZONTAL INSULATION TO BE RIGID INSULATION HI-40 (OR EQUIVALENT) PLACED IN 2 LAYERS WITH THE JOINTS OF EACH LAYER STAGGERED/TAPED TO ENSURE A CONTINUOUS LAYER OF INSULATION IS PROVIDED.
11. THE BEDDING AND COVER MATERIAL FOR HORIZONTAL INSULATION TO BE FREE OF PARTICLES LARGER THAN 25mm, CONSISTING OF WELL-GRADED TYPE 1 MATERIAL.

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Signature
Date April 22, 2026
PERMIT NUMBER: P 010
NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GRASLEY
LICENSEE
L 5088
NT/NU

ISSUED FOR CONSTRUCTION

Canada
Nunavut

DILLON CONSULTING

No.	ISSUED FOR	DATE	BY
1	ISSUED FOR CONSTRUCTION	2025-Apr-24	SJG
0	ISSUE FOR TENDER	2025-Nov-10	LW

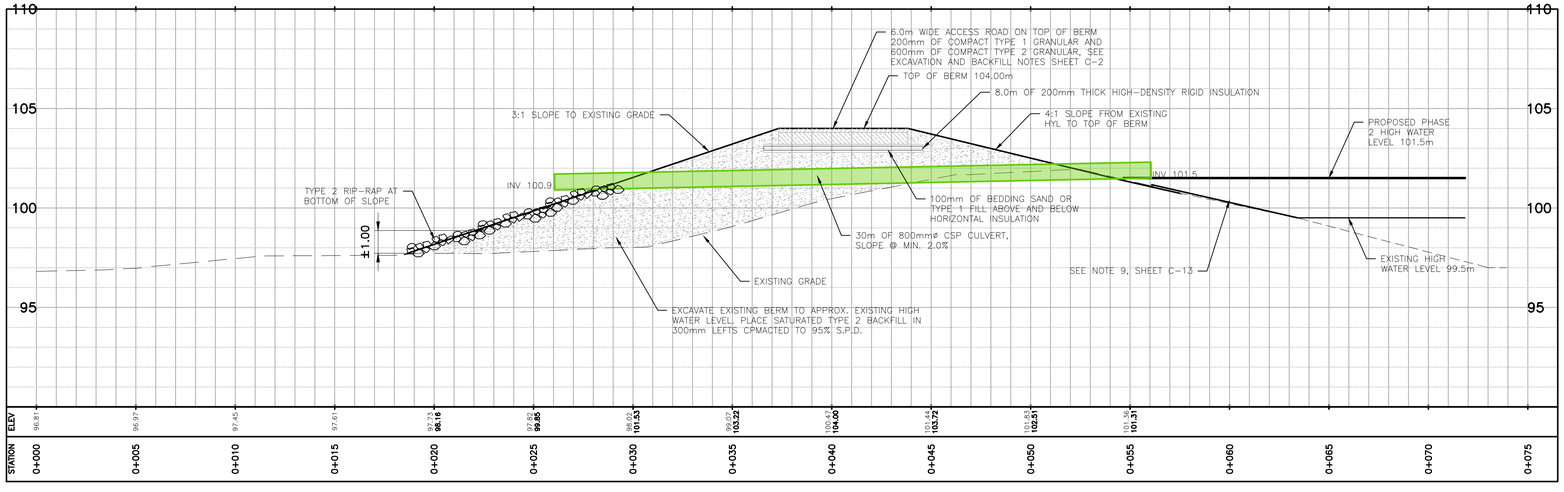
DESIGN LEW | REVIEWED BY KJ
DRAWN LEW | CHECKED BY SJG
DATE APRIL 2024
SCALE 1:150

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

BERM SECTIONS

PROJECT NO. 24-7458
SHEET NO. C-13

FILENAME: C:\USERS\SGLEW\DC\ACCDOCS\DILLON CONSULTING (KEEP)\POND INLET WTP\PROJECT FILES\2. WORK\DRAWINGS\02_CIVIL\CONTRACT\C-6_C-11 POND INLET WTP SECTIONS.DWG PLOTTED BY: JOHN GRASLEY
PLOT DATE: 2026-04-21 @ 12:21:25 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



NOTES:
1. SEE BERM CONSTRUCTION NOTES SHEET C-13
2. CONTRACTOR TO INSTALL 1 - 15M REBAR STAKE ON POND SIDE OF BERM. LOCATE REBAR 2.0m FROM PROPOSED WATER LEVEL (101.5m), REBAR TO BE EMBEDDED IN GROUND MIN 3.0m AND EXTEND ABOVE WATER MIN 2.0m.

2 PHASE 2 CULVERT INSTALLATION
C-14
1:150

SCALE 1:150 3 0 3 METRES

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NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S. GRACEY
LICENSEE
L 5088
NT/NU

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No.	ISSUED FOR	DATE	BY
2	ISSUED FOR CONSTRUCTION	2026-Apr-24	SJG
1	ISSUED FOR ADDENDUM #3	2025-Dec-18	LW
0	ISSUE FOR TENDER	2025-Nov-10	LW

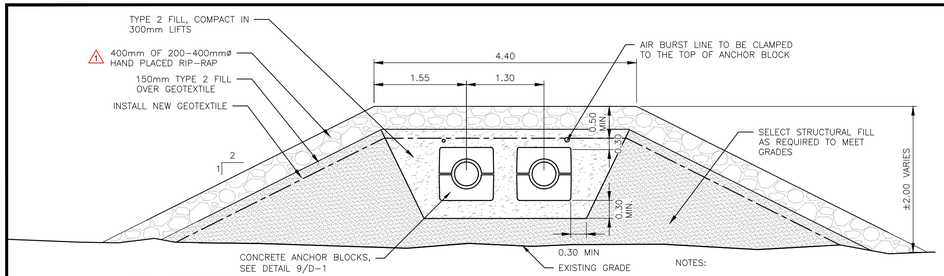
DESIGN LEW | REVIEWED BY KJ
DRAWN LEW | CHECKED BY SJG
DATE APRIL 2026
SCALE 1:150

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

BERM SECTIONS

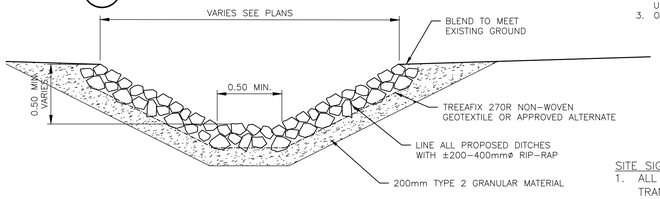
PROJECT NO. 24-7458
SHEET NO. C-14

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PLOT DATE: 2026-04-27 @ 12:22:45 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



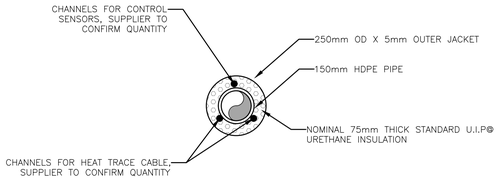
1 INTAKE BERM
D-1 1:50

NOTES:
1. INSTALL NEW TYPE 2 GRANULAR, GOETEXTILE, AND RIP RAP AS REQUIRED.
2. CARRIER FOR AIR BURST LINES TO BE ATTACHED WITH UNISTRUT TO TOP OF BALLAST BLOCKS ON NEW INTAKE
3. OVERLAP NEW GEOTEXTILE JOINTS A MINIMUM OF 1.0m

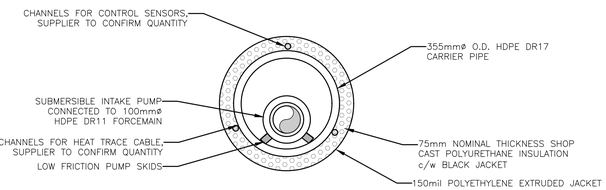


2 TYPICAL DITCH SECTION
D-1 1:25

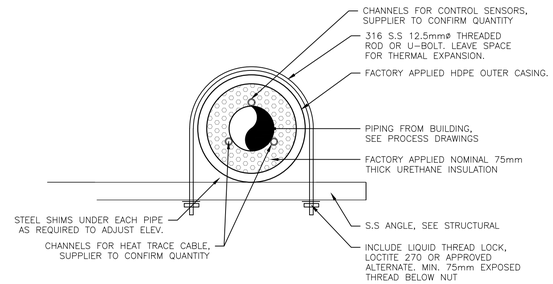
SITE SIGNAGE NOTES:
1. ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA. (MUTCD) LATEST EDITION AND THE GOVERNMENT OF NUNAVUT TRAFFIC CONTROL DEVICE REGULATIONS LATEST EDITION, UNLESS OTHERWISE NOTED.
2. EXACT LOCATION OF NEW TRAFFIC SIGNAGE TO BE DETERMINED IN FIELD, AND SUBJECT TO THE APPROVAL OF THE OWNER'S SITE REPRESENTATIVE.
3. ALL SIGNS TO BE MANUFACTURED BY A 3M CERTIFIED SIGN FABRICATOR. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL FOR ALL SIGNS.
4. ALL SITE SIGNAGE TO BE TRANSLATED TO ALL OFFICAL LANGUAGES OF NU. SIGNAGE TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO SHIPPING TO SITE.



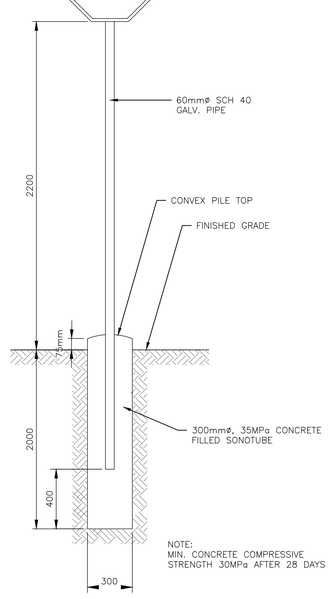
4 HDPE TREATED WATER PIPE TO TRUCKFILL
D-1 N.T.S.



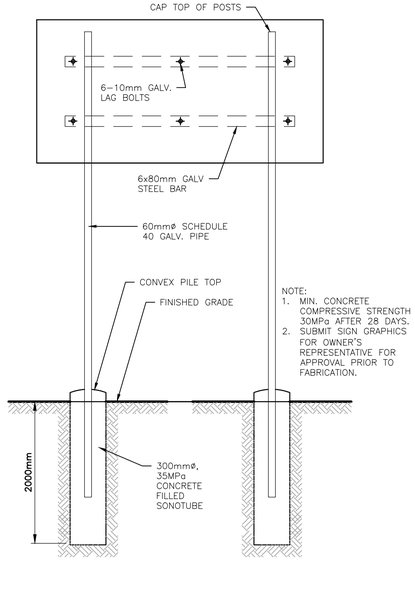
5 INTAKE PIPE
D-1 1:10



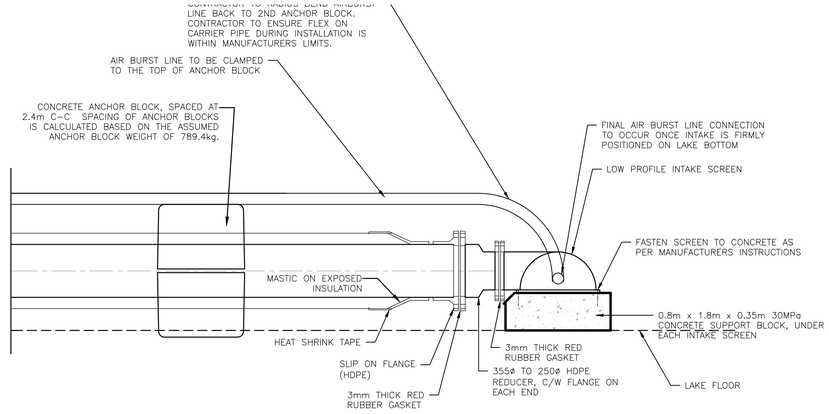
6 HDPE PIPE FROM PLANT TO TANKS
D-1 1:10



7 SIGN POST INSTALLATION
D-1 1:20

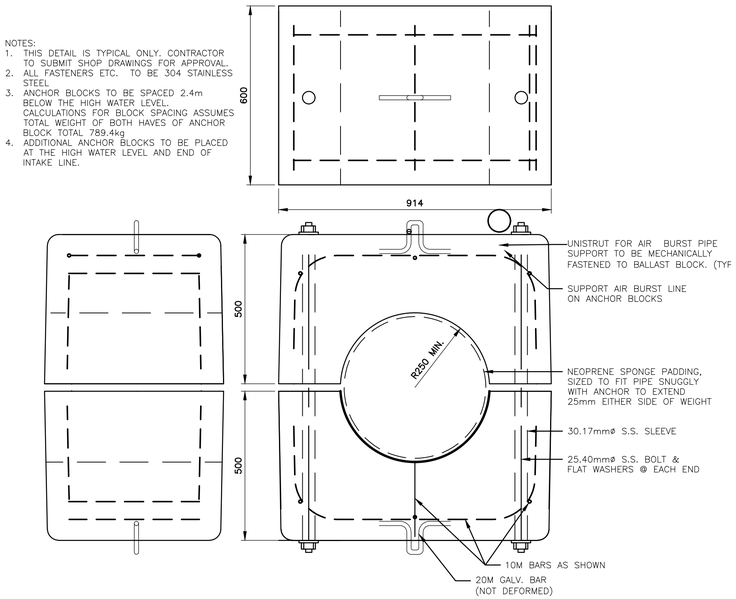


8 SIGN POST INSTALLATION
D-1 1:25



3 INTAKE SCREEN
D-1 1:20

NOTES:
1. THIS DETAIL IS TYPICAL ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. ALL FASTENERS ETC. TO BE 304 STAINLESS STEEL
3. ANCHOR BLOCKS TO BE SPACED 2.4m BELOW THE HIGH WATER LEVEL. CALCULATIONS FOR BLOCK SPACING ASSUMES TOTAL WEIGHT OF BOTH HAVES OF ANCHOR BLOCK TOTAL 789.4kg
4. ADDITIONAL ANCHOR BLOCKS TO BE PLACED AT THE HIGH WATER LEVEL AND END OF INTAKE LINE.



9 INTAKE ANCHOR BLOCK DETAIL
D-1 1:10

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NT/NU Association of Professional Engineers and Geoscientists

2026-04-27
REGISTERED PROFESSIONAL ENGINEER
S.J. GRACEN
LICENSEE
L 5088
NT/NU

ISSUED FOR CONSTRUCTION

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Nunavut

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No.	ISSUED FOR	DATE	BY
1	ISSUED FOR CONSTRUCTION	2026-Apr-24	SJG
0	ISSUED FOR TENDER	2025-Nov-10	LEW

DESIGN	REVIEWED BY
LEW	KJ
DRAWN	CHECKED BY
LEW	SJG
DATE	APRIL 2026
SCALE	AS SHOWN

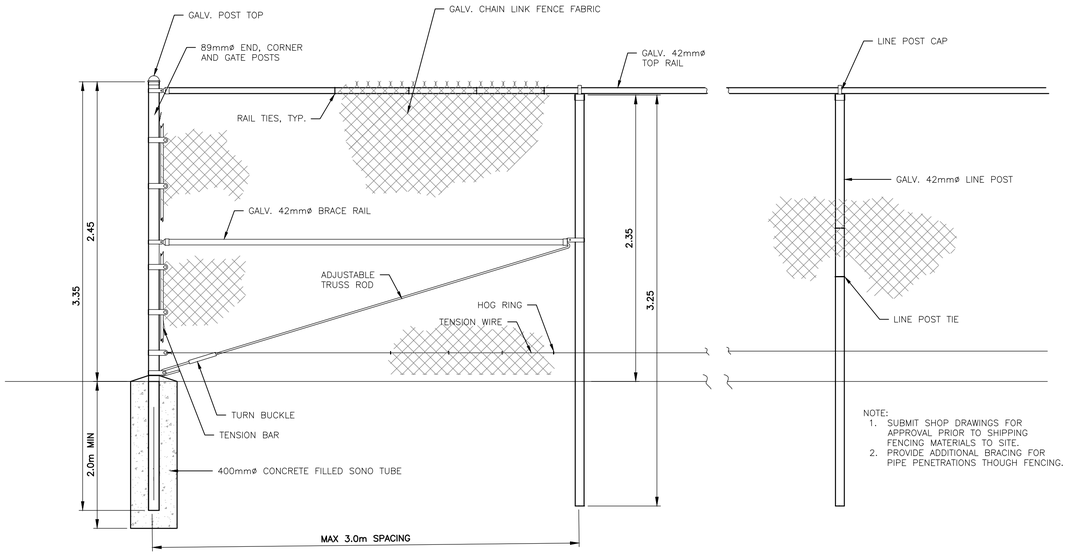
GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

CIVIL DETAILS

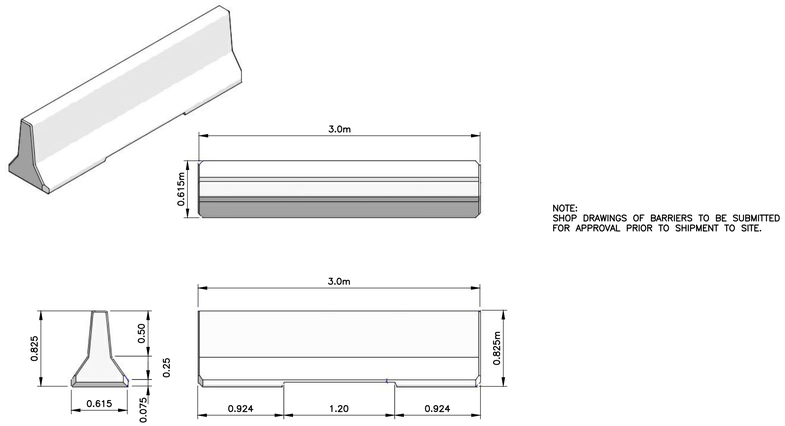
PROJECT NO. 24-7458

SHEET NO. D-1

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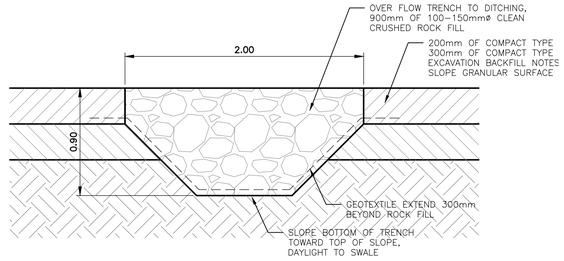


1 D-2 CHAIN LINK FENCING
1:25

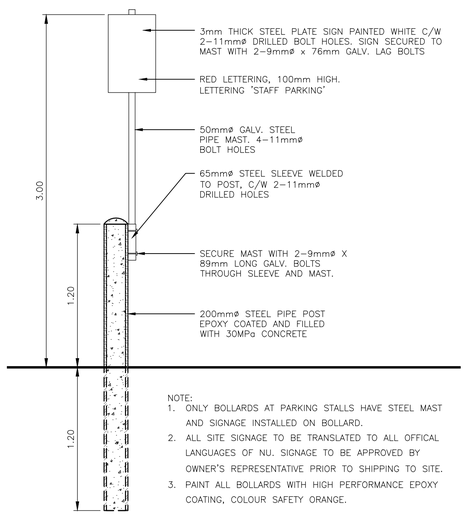


NOTE:
SHOP DRAWINGS OF BARRIERS TO BE SUBMITTED FOR APPROVAL PRIOR TO SHIPMENT TO SITE.

9 D-2 CONCRETE BARRIER
N.T.S.

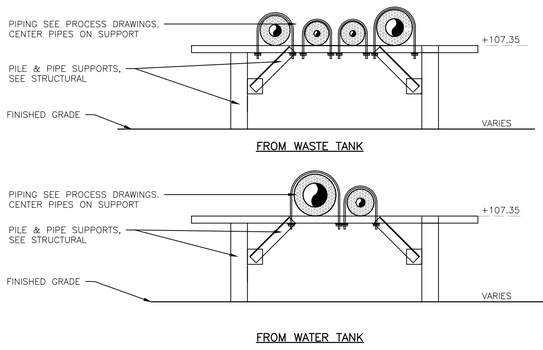


3 D-2 OVERFLOW TRENCH
1:25

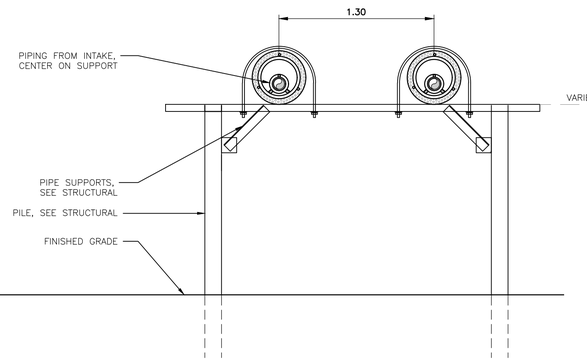


NOTE:
1. ONLY BOLLARDS AT PARKING STALLS HAVE STEEL MAST AND SIGNAGE INSTALLED ON BOLLARD.
2. ALL SITE SIGNAGE TO BE TRANSLATED TO ALL OFFICAL LANGUAGES OF NU. SIGNAGE TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO SHIPPING TO SITE.
3. PAINT ALL BOLLARDS WITH HIGH PERFORMANCE EPOXY COATING, COLOUR SAFETY ORANGE.

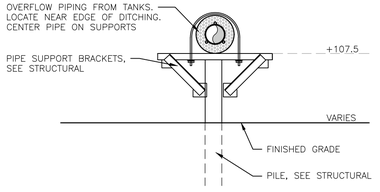
4 D-2 BOLLARD DETAIL
N.T.S.



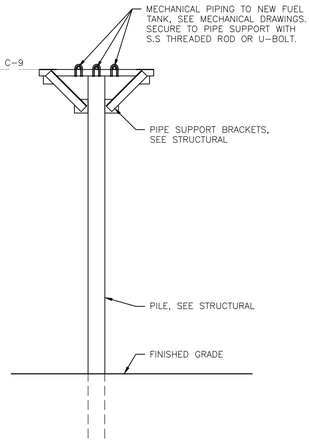
5 D-2 PIPE SUPPORT TO TANKS
1:25



6 D-2 PIPE SUPPORT FOR INTAKE LINES
1:25



7 D-2 PIPE SUPPORT AT OVERFLOWS
1:25



8 D-2 PIPE SUPPORT TO FUEL TANK
1:25

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DESIGN	REVIEWED BY
LEW	KJ
DRAWN	CHECKED BY
LEW	SJG
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SCALE	AS SHOWN

GOVERNMENT OF NUNAVUT 2025-00688-03
POND INLET NEW WATER TREATMENT PLANT

PROJECT NO. 24-7458

CIVIL DETAILS

SHEET NO. D-2

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