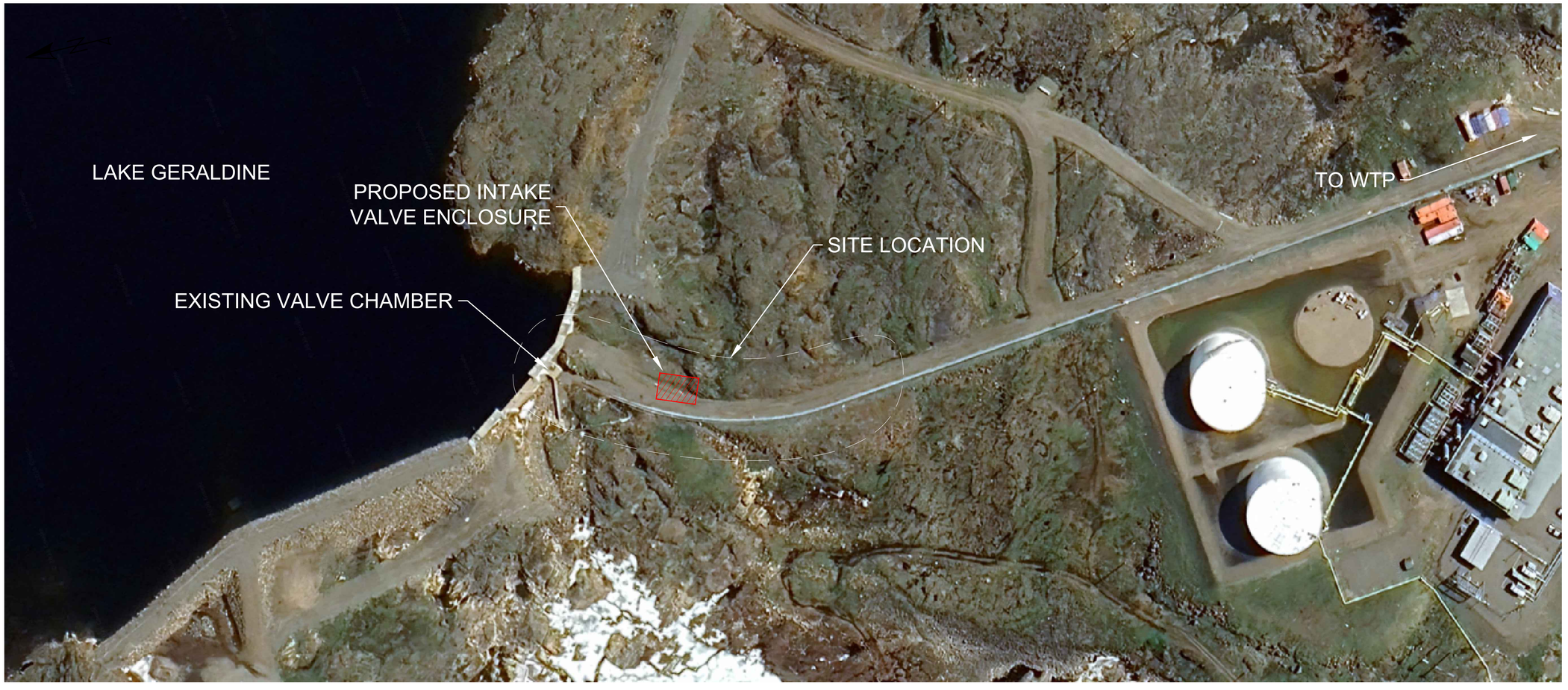
RVA # 247636

CITY OF IQALUIT

LAKE GERALDINE VALVE REPLACEMENT



RVA | PEOPLE. PROJECTS. PLANET.
Innovative solutions for complex challenges

Notes:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
   - 1.1. PROJECT SPECIFICATIONS
   - 1.2. NATIONAL BUILDING CODE OF CANADA
   - 1.3. GOOD BUILDING PRACTICES GUIDELINE, GOVERNMENT OF NUNAVUT 2020
   - 1.4. OCCUPATIONAL HEALTH AND SAFETY REGULATIONS, NUNAVUT
   - 1.5. MUNICIPAL DESIGN GUIDELINES, CITY OF IQALUIT
   - 1.6. WORKER'S SAFETY AND COMPENSATION COMMISSION (WSCC) TRAFFIC CONTROL PLANS
   - 1.7. NUNAVUT TRAFFIC SAFETY ACT
   - 1.8. GOVERNMENT OF THE NORTHWEST TERRITORIES, DEPARTMENT OF TRANSPORTATION -EROSION AND SEDIMENT CONTROL MANUAL
   - 1.9. CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK INCLUDING COMPLETION OF A PRE-CONSTRUCTION SURVEY AND DAY LIGHTING OF BURIED INFRASTRUCTURE AS PER THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
3. THE DESIGN PRESENTED HEREIN HAS BEEN DEVELOPED BASED ON THE TOPOGRAPHIC SURVEY COMPLETED BY TOWER ARCTIC LIMITED IN OCTOBER 2025 AND REFLECTS SITE CONDITIONS AND ELEVATIONS DOCUMENTED AT THAT TIME.
4. THE LOCATION OF ALL EXISTING ABOVE AND BELOW GROUND UTILITIES SHOWN ON DRAWINGS INCLUDING EXISTING WATER MAINS, SEWERS, UTILITY POLES, ETC. ARE APPROXIMATE ONLY, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL ABOVE AND BELOW GROUND INFRASTRUCTURE (I.E. GAS, STORM, SANITARY, WATER, TELEPHONE, CABLE, POWER LINES, ETC.) IS LOCATED AND THE HORIZONTAL AND VERTICAL LOCATION ESTABLISHED PRIOR TO STARTING WORK.
5. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT TO ALL BURIED UTILITIES, UTILITY POLES, GAS MAINS, SIGNS, ETC WHICH MAY BE IMPACTED BY THE WORKS AND EXECUTION.
6. EXISTING WATER MAINS: CONTRACTOR TO DAYLIGHT ALL EXISTING WATER MAINS USING HYDRO VAC EXCAVATION AND CONFIRM LOCATION, CONTRACTOR TO NOTIFY ENGINEER OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS.
7. CONTRACTOR TO SUBMIT TEMPORARY SUPPORT DESIGN SUBMISSION FOR ALL UTILITY CROSSINGS REQUIRING TEMPORARY SUPPORT. TEMPORARY SUPPORT DESIGN PACKAGE TO INCLUDE ENGINEERING DRAWINGS SEALED BY AN ENGINEER LICENSED TO PRACTICE IN NUNAVUT. TEMPORARY SUPPORT DESIGN SUBMISSION TO BE PROVIDED FOURTEEN (14) DAYS PRIOR TO COMMENCEMENT OF WORK.
8. CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGED STRUCTURES OR FEATURES TO PRE CONSTRUCTION CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY OF IQALUIT.
9. LIABILITY FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES AND INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. DO NOT SCALE FROM DRAWINGS; USE DIMENSIONS ON PLANS, DETAILS, AND AS DESCRIBED IN REFERENCED SPECIFICATIONS.
11. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, APPROVALS AND CLEARANCES PRIOR TO STARTING CONSTRUCTION.
12. CONTRACTOR IS RESPONSIBLE FOR SECURING THE SITE FOR PUBLIC SAFETY DURING CONSTRUCTION.
13. ELEVATIONS ARE GEODETIC, REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 2013 (CGVD 2013) AND ARE DERIVED FROM STATIC GNSS OBSERVATIONS AND NATURAL RESOURCES CANADA'S PRECISE POINT POSITIONING SERVICE (PPP).
14. ELEVATIONS ARE SHOWN IN METRES AND DECIMALS THEREOF.
15. BOUNDARIES SHOWN ARE GRAPHIC REPRESENTATION ONLY AND ARE SUBJECT TO CONFIRMATION BY A LEGAL BOUNDARY SURVEY.
16. CONTRACTOR TO PROVIDE SHOP DRAWINGS, AGGREGATE MIX DESIGNS, AND PRODUCT DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL MATERIALS, DEBRIS AND OTHER ITEMS REQUIRED TO COMPLETE THE WORK UNLESS DIRECTED OTHERWISE. CONTRACTOR TO DISPOSE OF MATERIALS OFF SITE AT AN APPROVED LOCATION.
18. CONTRACTOR TO PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH WSCC's REGULATIONS AND SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER/ENGINEER FOR REVIEW PRIOR TO CARRYING OUT WORK WITHIN THE ROAD RIGHT OF WAY.
19. NO STOCK PILLING OF MATERIALS SHALL BE PERMITTED ON SITE.
20. CONTRACTOR MUST KEEP ON-SITE A NUCLEAR DENSOMETER AND PROVIDE COMPACTION TEST RESULTS TO THE OWNER FOR ALL PLACED GRANULAR MATERIALS, INCLUDING BUT NOT LIMITED TO BACKFILL, ROAD BASE, BEDDING FOR PIPING AND AV'S, ETC. THE CONTRACTOR MUST PERFORM RANDOM COMPACTION TESTING AT THE REQUEST OF THE OWNER/ENGINEER AT THEIR OWN EXPENSE.
21. ALL TRENCH EXCAVATIONS COMPLETED UNDER THIS CONTRACT MUST BE COMPLETED USING A TRENCH BOX. THE CONTRACTOR IS RESPONSIBLE TO HAVE A TRENCH BOX ONSITE AT ALL TIMES. CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE OWNER PRIOR TO COMPLETING ANY EXCAVATIONS WITHOUT A TRENCH BOX.
22. SHOULD CONTAMINATED SOILS BE ENCOUNTERED DURING EXCAVATIONS THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND DISPOSE OF MATERIALS IN ACCORDANCE WITH THE GOVERNMENT OF NUNAVUT ENVIRONMENTAL GUIDELINE FOR CONTAMINATED SITE REMEDIATION.
23. ALL NEW MATERIALS USED UNDER THIS CONTRACT MUST CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF IQALUIT MUNICIPAL DESIGN GUIDLINES.
24. ALL NEW WATERMAIN TO BE DR9 HDPE PIPE WITH 50MM THICK SHOP CAST POLYURETHANE INSULATIONS AND BLACK JACKET, AND MUST BE INSTALLED USING THERMAL BUTT FUSION COMPLETED BY A LICENSED INSTALLER CERTIFIED BY THE MANUFACTURER.
25. CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL TEMPORARY CLOSURES TO PARKING AREAS AND DRIVE WAY ACCESS WITH BUILDING OWNERS AND RESIDENTS.

EROSION AND SEDIMENT CONTROL NOTES:

26. CONSTRUCT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING THIS CONTRACT.
27. CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH GOVERNMENT OF THE NORTHWEST TERRITORIES, DEPARTMENT OF TRANSPORTATION -EROSION AND SEDIMENT CONTROL MANUAL TO THE ENGINEER PRIOR TO COMMENCING WORK.
28. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE SITE DEBRIS FROM STREETS AND MAINTAIN THE WORK AREA AND ENSURE THAT ALL ROADWAYS AND WALKWAYS ARE CLEAN AND FREE OF DEBRIS AT ALL TIMES TO THE SATISFACTION OF THE OWNER AND ENGINEER.

GRADING NOTES:

29. CONTRACTOR TO PROVIDE CONSTRUCTION METHODS TO SUIT LOCAL SOIL CONDITIONS THAT WILL NOT WEAKEN SUBGRADE OR UNDERMINE/DAMAGE EXISTING STRUCTURES.
30. RECTIFY DEFICIENCIES IN SUBGRADE CAUSED BY CONSTRUCTION OPERATIONS TO SATISFACTION OF ENGINEER.
31. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM PERIMETER OF BUILDINGS, ENCLOSURES, WALKWAYS, AND ROADWAYS TO DITCHES AND SWALES.
32. ALL LANDSCAPED AREAS TO HAVE MINIMUM 2% SLOPE AWAY FROM STRUCTURES.

INSULATION NOTES:

33. ALL NEW PIPELINE WITH LESS THAN 2.5m OF COVER MUST BE INSTALLED WITH RIGID INSULATION AS PER DETAIL #6 ON DWG C1006.

Universal Transverse Mercator Coordinates

(NAD83 CSRS), Zone 19, Central Meridian 69° West

Point	Easting	Northing	Elevation	Latitude (N)	Longitude (W)	Convergence	Combined Scale Factor	Description
CCM1	521690.977	7071317.148	117.55	63° 46' 07.39375"	68° 33' 36.58071"	0° 23' 40"	0.9995891	CLS Marker Mkd CCM1 1975
CCM2	521462.818	7069453.452	82.55	63° 45' 07.23451"	68° 33' 54.16184"	0° 23' 24"	0.9995944	CHS Marker Mkd 3601 1957
CCM3	522488.479	7068349.224	38.71	63° 44' 31.32968"	68° 32' 39.91111"	0° 24' 31"	0.9996018	CLS Marker Mkd CCM3,1975
CCM4	522955.168	7067616.303	35.21	63° 44' 07.54287"	68° 32' 06.26569"	0° 25' 01"	0.9996026	CLS Marker NR
CCM45	522640.862	7070184.338	25.98	63° 45' 29.93454"	68° 32' 27.84723"	0° 24' 42"	0.9996039	CLS Marker Mkd CCM45,1990
CCM6	522960.332	7070285.229	55.23	63° 45' 33.76545"	68° 32' 04.47146"	0° 25' 03"	0.9995995	CLS Marker Mkd CCM6,1975
CCM7	523536.516	7070736.044	144.17	63° 45' 48.19234"	68° 31' 22.18046"	0° 25' 41"	0.9995859	CHS Marker Mkd 3601 1957
CCM8	523217.707	7069841.593	26.50	63° 45' 19.37220"	68° 31' 45.92861"	0° 25' 19"	0.9996041	CLS 69 in Steel Well
CCM10	523613.751	7069655.024	49.90	63° 45' 13.24977"	68° 31' 17.13482"	0° 25' 45"	0.9996007	CLS Marker Mkd CCM10 1975
CCM11	523471.274	7069423.502	24.18	63° 45' 05.80447"	68° 31' 27.65528"	0° 25' 36"	0.9996046	CLS 69 in Steel Well
CCM12	523400.534	7069136.244	19.74	63° 44' 56.54116"	68° 31' 32.97147"	0° 25' 31"	0.9996053	CLS 69 in Steel Well
CCM13	523401.437	7068977.650	14.91	63° 44' 51.41734"	68° 31' 32.99143"	0° 25' 31"	0.9996061	CLS 69 in Steel Well
CCM16	523740.554	7068875.362	12.83	63° 44' 48.03085"	68° 31' 08.31191"	0° 25' 53"	0.9996061	CLS 69 in Steel Well
CCM17	524068.735	7069091.491	55.82	63° 44' 54.93283"	68° 30' 44.25440"	0° 26' 15"	0.9996000	CLS Marker Mkd CCM17 1975
CCM20	524306.263	7068295.222	21.91	63° 44' 29.14934"	68° 30' 27.37585"	0° 26' 30"	0.9996055	Drill Hole in Rock
CCM21	524389.529	7068685.633	40.57	63° 44' 41.74139"	68° 30' 21.08337"	0° 26' 35"	0.9996026	CLS Marker Mkd CCM21 1975
CCM22	524292.730	7068968.025	33.84	63° 44' 50.88861"	68° 30' 27.98467"	0° 26' 29"	0.9996036	CLS Marker Mkd CCM22 1975
CCM23A	524652.711	7069061.855	71.84	63° 44' 53.82964"	68° 30' 01.67377"	0° 26' 53"	0.9995979	CLS Marker Mkd CCM23A 1989
CCM24	524630.658	7069268.794	128.47	63° 45' 00.52064"	68° 30' 03.16445"	0° 26' 52"	0.9995890	CLS Marker MKD CCM24 1975
CCM25	524890.145	7068768.253	86.68	63° 44' 44.28416"	68° 29' 44.52369"	0° 27' 08"	0.9995957	CLS Marker NR
CCM26	525103.656	7068443.017	102.46	63° 44' 33.72229"	68° 29' 29.13989"	0° 27' 22"	0.9995933	CLS Marker Mkd CCM26 1975
CCM28	525561.309	7068622.873	117.53	63° 44' 39.41399"	68° 28' 55.65766"	0° 27' 52"	0.9995913	CHS Marker Mkd 1957, PR
CCM29	526047.243	7068015.707	119.83	63° 44' 19.79946"	68° 28' 20.59056"	0° 28' 23"	0.9995912	CLS Marker Mkd CCM29 1975
CCM30	527146.353	7066445.991	62.10	63° 43' 28.65926"	68° 27' 01.42264"	0° 29' 34"	0.9996010	CLS69 Marker Mkd 30
CCM47	524504.331	7068512.444	59.19	63° 44' 36.11750"	68° 30' 12.80852"	0° 26' 43"	0.9995998	CLS Marker Mkd CCM47 1990
CCM48	523858.192	7069296.290	32.28	63° 45' 01.60087"	68° 30' 59.49916"	0° 26' 01"	0.9996036	CLS Marker Mkd CCM48 1992

No.	Description	By	YYYY.MM.DD
1	ISSUED FOR REVIEW	MDB	2026-08-10

Iqaluit

CITY OF IQALUIT

R.V. ANDERSON ASSOCIATES LIMITED

LAKE GERALDINE
INTAKE VALVE REPLACEMENT

Project No:	247636	Designed	AOL
Date:	AUG-2026	Checked	MDB
Scale:	AS SHOWN	Drawn	AG

CIVIL
NOTES

DWG NO. 100

REV. 0

LEGEND:

EXISTING ROADWAY	PROPOSED ROADWAY
EXISTING DITCH EDGE	PROPOSED DITCH EDGE
EXISTING DITCH CENTERLINE	PROPOSED DITCH CENTERLINE
WATER ACCUMULATION	PROPOSED THRUST BLOCKING
EXISTING WATERMAIN	PROPOSED WATERMAIN
EXISTING CONCRETE	PROPOSED REMOVALS
EXISTING ACCESS CHAMBER	2.0% PROPOSED GRADES
EXISTING GRAVEL	100.51 PROPOSED GRADE POINTS
EXISTING BEDROCK	
EXISTING CULVERT	

LAKE GERALDINE

LAKE GERALDINE DAM

EXPOSED BEDROCK

EX. ACCESS CHAMBER

EXISTING CSP CULVERT
APPROXIMATELY 250mmØ

EXTENT OF FOUNDATION

VALVE ENCLOSURE AND
FOUNDATION BY OTHERS

VALVE ENCLOSURE
(BY OTHERS)

CONTRACTOR TO INSTALL 2 X 22.5°
BENDS TO RAISE PIPE ELEVATION TO
MATCH VALVE CONTAINER (TYP. FOR ALL
FLANGED CONNECTIONS)

FROM DAM: EX. - 250MM HDPE WATER INTAKE PIPE WITH
CORRUGATED STEEL COVERING, PARTIALLY BURIED

TO DAM: EX. - 150MM HEATED HDPE WATER RECIRCULATION PIPE
WITH CORRUGATED STEEL COVERING, PARTIALLY BURIED

TO WTP: EX. - 250MM HDPE WATER INTAKE PIPE WITH
CORRUGATED STEEL COVERING, PARTIALLY BURIED

FROM WTP: EX. - 150MM HEATED HDPE WATER RECIRCULATION PIPE
WITH CORRUGATED STEEL COVERING, PARTIALLY BURIED

90° BENDS C/W THRUST RESTRAINT

90° BENDS C/W THRUST RESTRAINT

REMOVE EXISTING PIPE BETWEEN BENDS

OLD CONCRETE
FOUNDATIONS

SPILLWAY

APPROXIMATE EXTENT OF
WATER ACCUMULATION IN
SPILLWAY

WATER FLOWING UNDER
CONCRETE SPILLWAY
GUIDE WALL

ABANDONED PIPING
AND SUPPORT STRUCTURE

0.75m 0 1.5m 3m
1:75

No.	Description	By	YYYY.MM.DD
1	ISSUED FOR REVIEW	MDB	2026-08-10

Iqaluit

CITY OF IQALUIT

RVA
R.V. ANDERSON ASSOCIATES LIMITED

LAKE GERALDINE
INTAKE VALVE REPLACEMENT

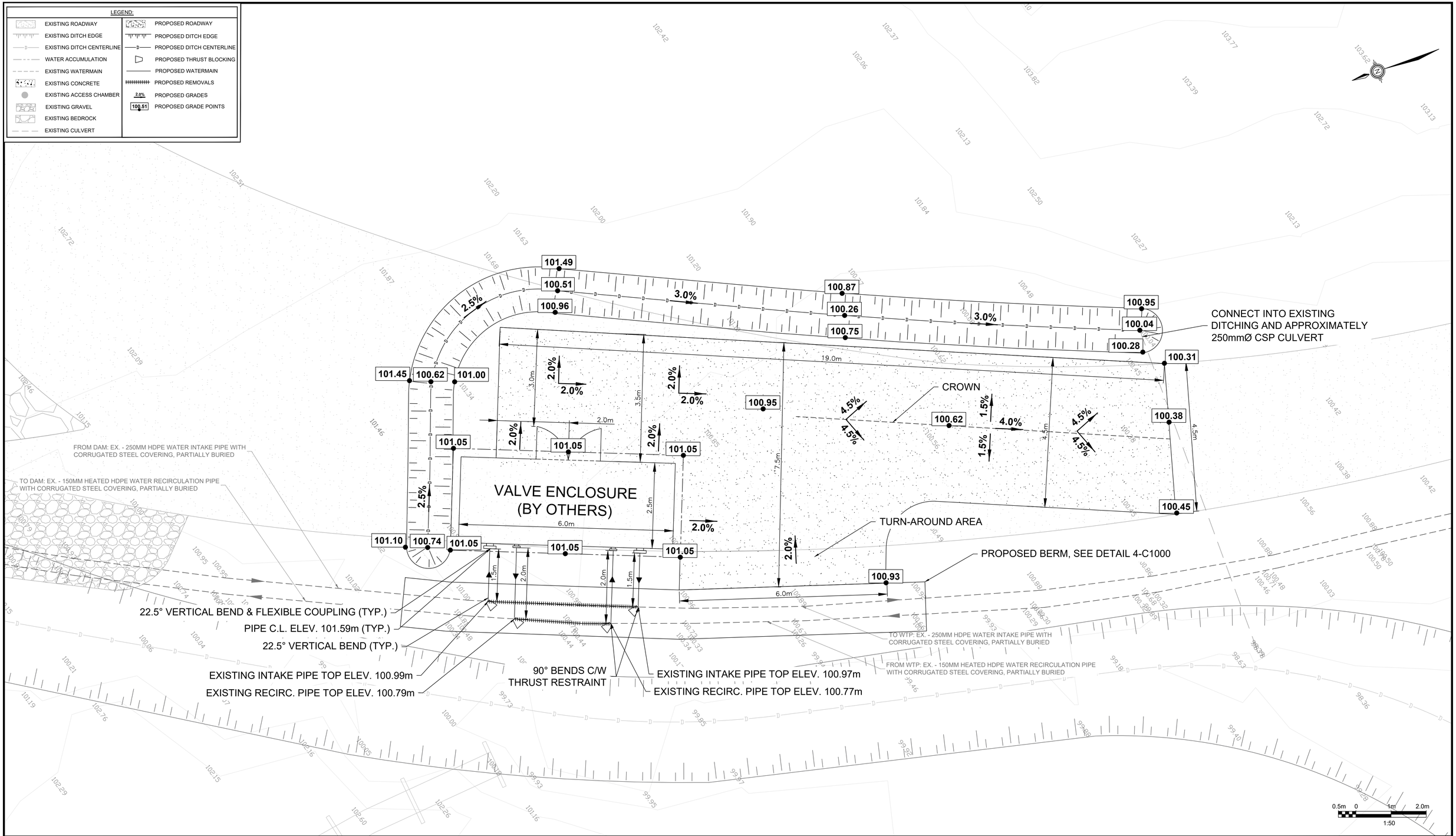
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Date:	AUG-2026	Checked	MDB
Scale:	1:75	Drawn	AG

CIVIL
VALVE CONTAINER
SITE LAYOUT

DWG NO. C101
REV. 0

LEGEND:

EXISTING ROADWAY	PROPOSED ROADWAY
EXISTING DITCH EDGE	PROPOSED DITCH EDGE
EXISTING DITCH CENTERLINE	PROPOSED DITCH CENTERLINE
WATER ACCUMULATION	PROPOSED THRUST BLOCKING
EXISTING WATERMAIN	PROPOSED WATERMAIN
EXISTING CONCRETE	PROPOSED REMOVALS
EXISTING ACCESS CHAMBER	PROPOSED GRADES
EXISTING GRAVEL	PROPOSED GRADE POINTS
EXISTING BEDROCK	
EXISTING CULVERT	



No.	Description	By	YYYY.MM.DD
1	ISSUED FOR REVIEW	MDB	2026-08-10

Iqaluit

CITY OF IQALUIT

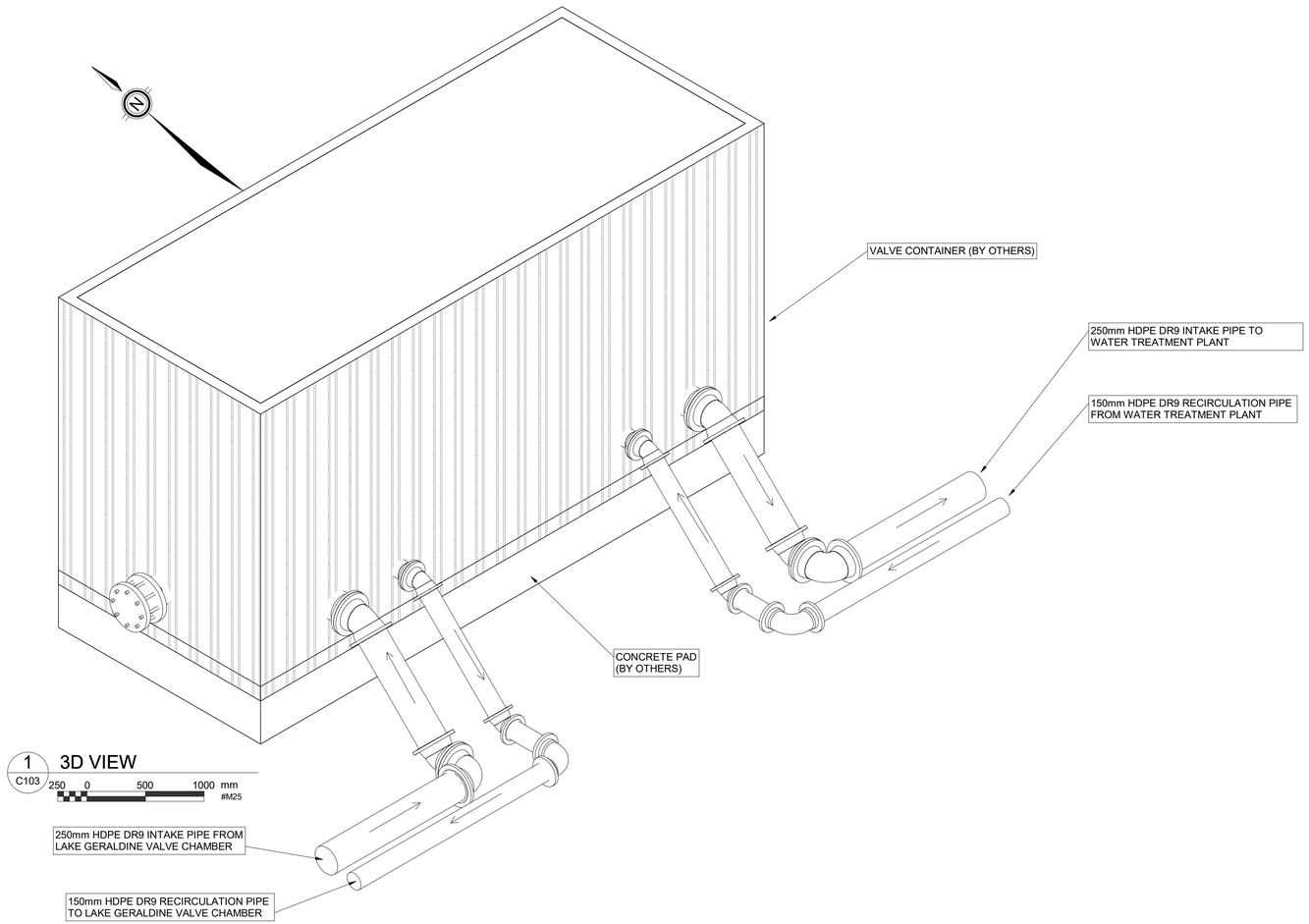
RVA
R.V. ANDERSON ASSOCIATES LIMITED

LAKE GERALDINE
INTAKE VALVE REPLACEMENT

Project No:	247656	Designed	AOL
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Scale:	1:50	Drawn	AG

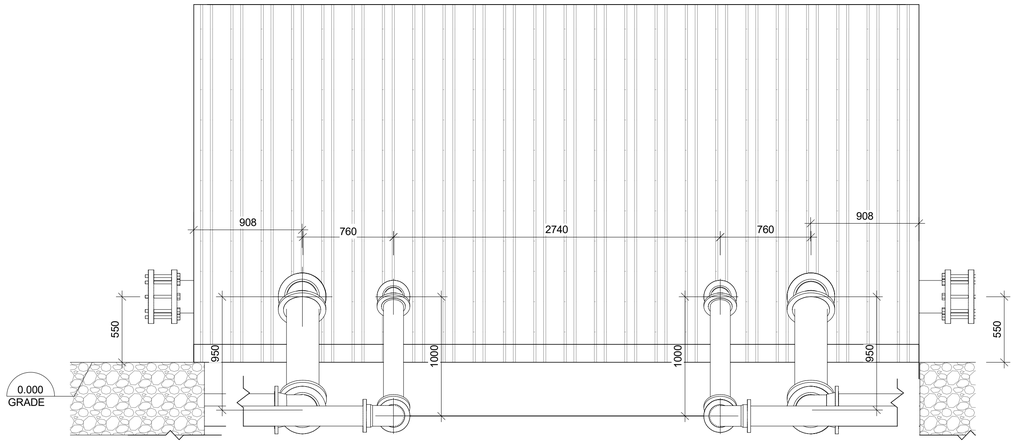
CIVIL
VALVE CONTAINER
GRADING PLAN

DWG NO. C102
REV. 0



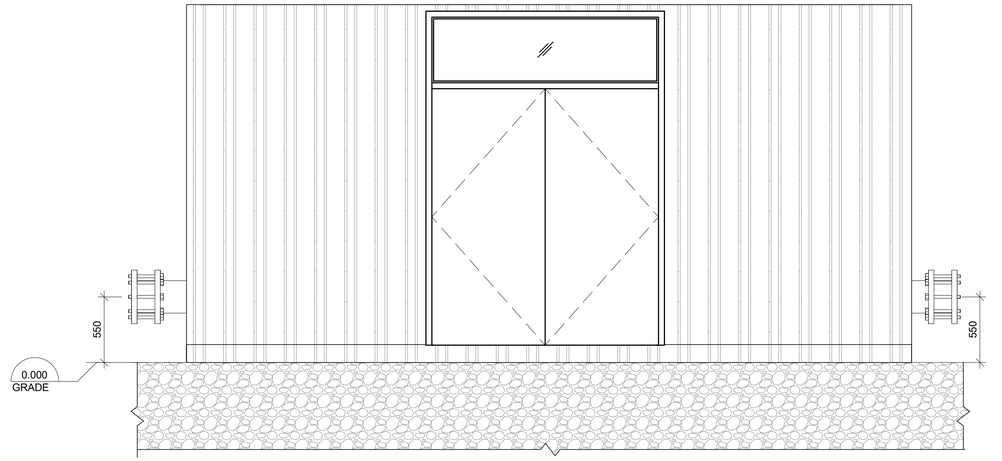
1 C103 3D VIEW

250 0 500 1000 mm #M25



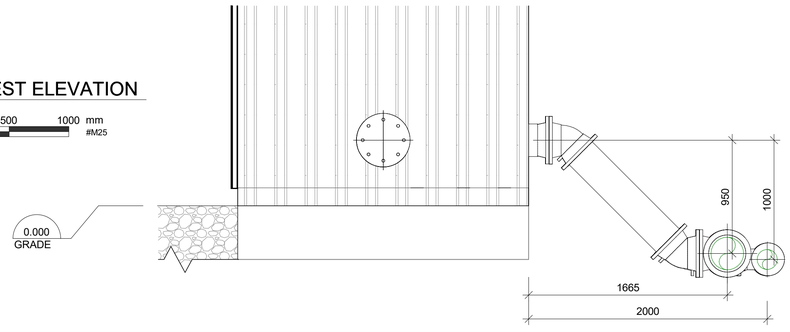
3 C103 SOUTH ELEVATION

250 0 500 1000 mm #M25



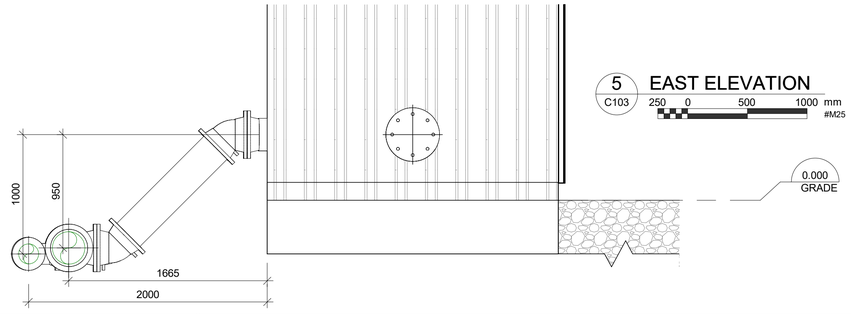
4 C103 NORTH ELEVATION

250 0 500 1000 mm #M25



2 C103 WEST ELEVATION

250 0 500 1000 mm #M25



5 C103 EAST ELEVATION

250 0 500 1000 mm #M25

No.	Description	By	YYYY.MM.DD
1	ISSUED FOR REVIEW	MDB	2026-08-10

Iqaluit

CITY OF IQALUIT

RVA R.V. ANDERSON ASSOCIATES LIMITED

LAKE GERALDINE
VALVE REPLACEMENT

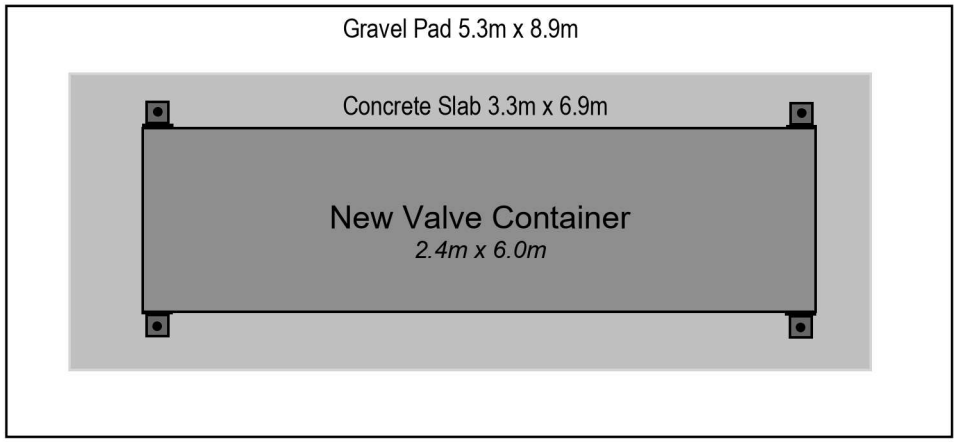
Project No:	247636	Designed:	AG
Creation Date:	AUG-2026	Checked:	MDB
Scale:	As indicated	Drawn:	AG

CIVIL
LAKE GERALDINE DAM
PIPE PLAN AND ELEVATIONS

DWG NO. C103

REV. 1

CONCRETE SLAB CONSTRUCTION DETAIL

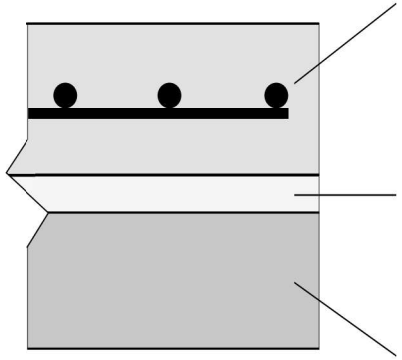


Plan View

GENERAL NOTES

1. CONCRETE: 30 MPa REINFORCED CONCRETE.
2. SLAB SIZE: 3.30 m x 6.90 m x 200 mm.
3. REINFORCEMENT: 15M @ 300 mm E/W, CENTERED.
4. INSULATION: 50 mm HI-40 RIGID INSULATION.
5. GRANULAR: 300 mm GRANULAR A, 98% SPMDD.
6. PREPARE AND PROOF-ROLL SUBGRADE PRIOR TO PLACING GRANULAR MATERIAL.

Concrete Mix - Class F-1
Type Gub-25S/5SF Portland Cement
Potable Water
Stone (20mm-5mm)
Sand
Air Mac 12 (admixture)
Eucon 37 (admixture)

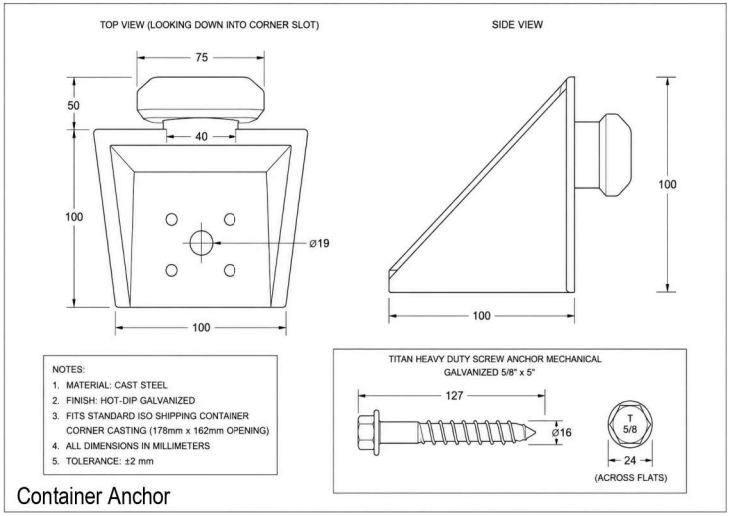


200mm THICK 30 MPa
REINFORCED CONCRETE SLAB
15M @ 300 E/W, CENTERED IN SLAB

50mm HI-40 RIGID INSULATION

300mm GRANULAR A,
COMPACTED TO 98% SPMDD

Section View



Container Anchor

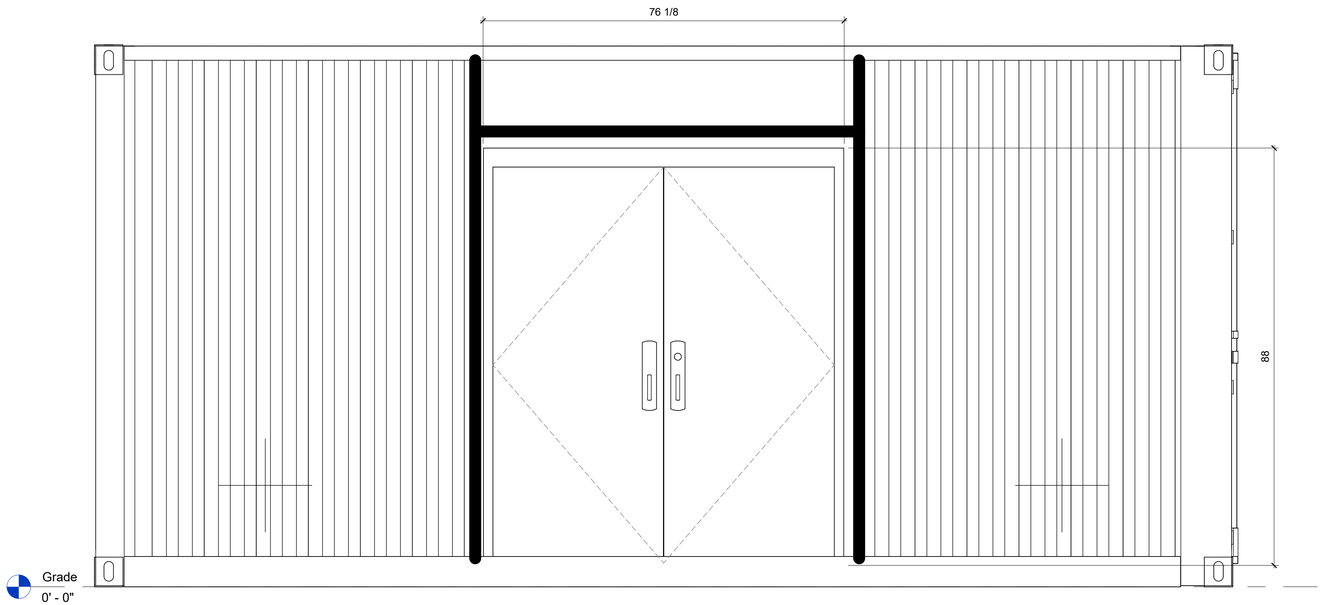
COMPANY / PROJECT

TOWER ARCTIC LTD

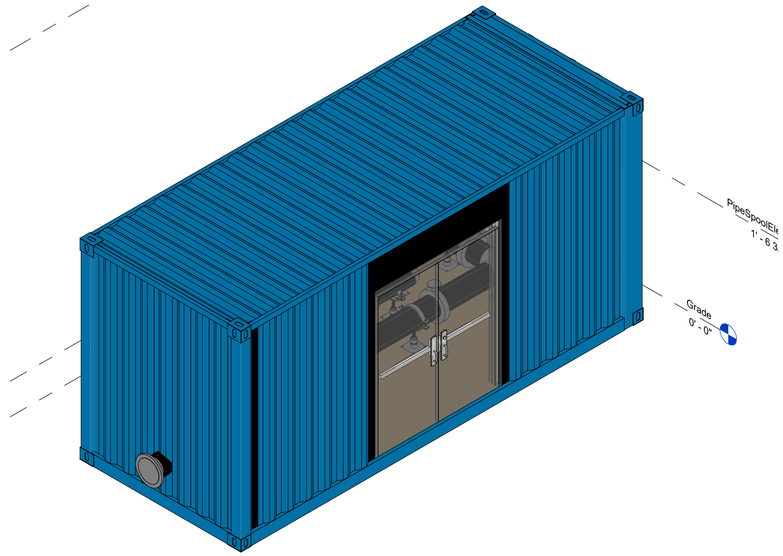
City of Iqaluit
New Valve Container

DRAWING TITLE	DRAWING No.	SCALE	DATE
Concrete Slab Detail	C-104	N.T.S.	2026-08-15

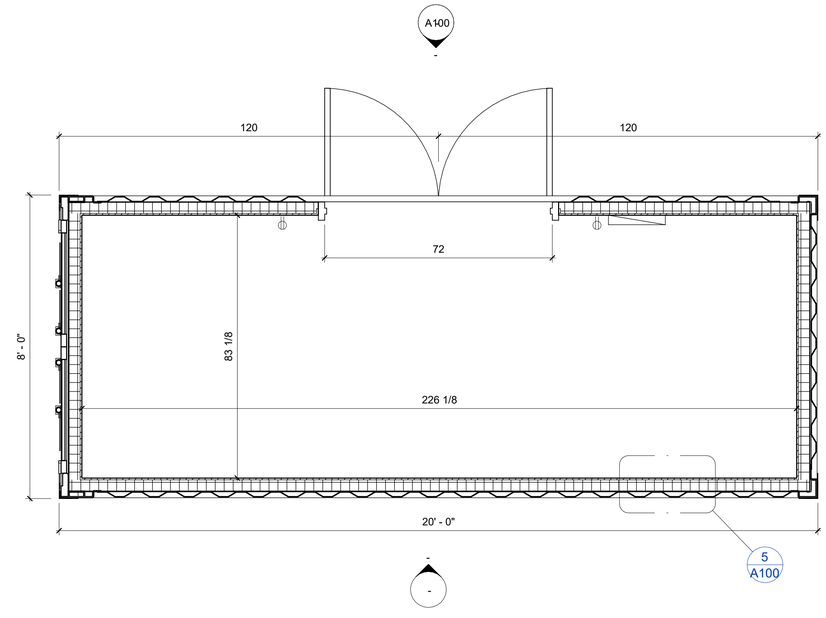
REV.	DESCRIPTION	DRAWN / CHECKED	APPROVED	STAMP
0	ISSUED FOR REVIEW	BH / SP	SP	



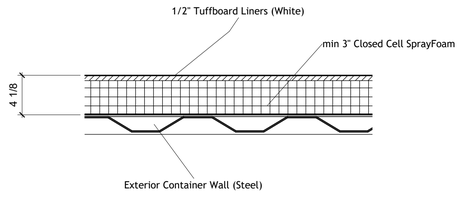
1 North
3/4" = 1'-0"



2 {3D}



3 Floor Plan
1/2" = 1'-0"



5 W1 - Wall & Ceiling Detail
1 1/2" = 1'-0"

MacGREGORS INDUSTRIAL GROUP
140 Coalburn MacLellan's Brook Rd
New Glasgow, NS, CANADA B2H 5C7
902-922-2029
www.macgregors.ca

NOTES

****** **ISSUED FOR CONSTRUCTION** ******

1. Prep, prime, and paint all modified areas to match existing container finish as closely as possible.
2. All welding to CSA standards by qualified personnel.
3. Reinforce all penetrations as required to maintain container structural integrity.
4. No heat tracing or freeze protection systems included unless noted otherwise.

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REVISION LOG

No.	Description	Date

Tower Group - City of Iqaluit

11788 - LAKE GERALDINE

DRAWING #
Container / Arch

Project number	W11788
Date	JULY 23/26
Drawn by	PK
Checked by	WG
SHEET #	A100
Scale	As indicated

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SINGLE LINE DIAGRAM

120/240V, 1Ø, 3-WIRE, GENERATOR FED
3.6kW CONTINUOUS / 7.2kW SURGE

OWNER-SUPPLIED PORTABLE GENERATOR

MILWAUKEE ROLL-ON 3600/7200 OR EQUIVALENT



120/240V, 1Ø
3.6kW CONTINUOUS / 7.2kW SURGE

GENERATOR POWER INLET (EXTERIOR) NEMA 14-30R OR EQUIVALENT

2P MAIN DISCONNECT / CIRCUIT BREAKER

RATING BY ELECTRICAL CONTRACTOR (TYP. 2P, 20A MAX)

GENERATOR-FED LOAD CENTRE
120/240V, 1Ø, 3W

MAIN BREAKER RATING BY ELECTRICAL CONTRACTOR (MAX 2P, 20A)

1P 15A	CKT 1 DUPLEX RECEPTACLE #1 120V	
1P 15A	CKT 2 DUPLEX RECEPTACLE #2 120V	
1P 10A	CKT 3 LED STRIP LIGHTS (3) 120V	
1P 10A	CKT 4 EXTERIOR LED FIXTURE 120V	

N G

NEUTRAL AND GROUND BONDED IN PANEL

LEGEND

- SINGLE POLE CIRCUIT BREAKER
- TWO POLE CIRCUIT BREAKER
- DUPLEX RECEPTACLE (120V)
- LED STRIP LIGHT
- EXTERIOR LED FIXTURE
- GENERATOR POWER INLET
- EQUIPMENT GROUND

NOTES:

1. ELECTRICAL SYSTEM IS GENERATOR-FED ONLY; NO UTILITY SERVICE CONNECTION PROVIDED.
2. POWER SOURCE BASED ON OWNER-SUPPLIED MILWAUKEE ROLL-ON GENERATOR 3.6kW CONTINUOUS / 7.2kW SURGE, 120/240V, 1Ø.
3. FINAL GENERATOR INLET, BREAKER SIZING, AND CIRCUIT LOADING TO BE CONFIRMED BY ELECTRICAL CONTRACTOR BASED ON GENERATOR OUTPUT CONFIGURATION.
4. ALL ELECTRICAL WIRING SHALL BE SURFACE-MOUNT EMT CONDUIT UNLESS NOTED OTHERWISE.
5. ALL ELECTRICAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS.
6. FINAL LAYOUT AND ROUTING SUBJECT TO APPROVED SHOP DRAWINGS AND FIELD COORDINATION.

ALL CIRCUIT BREAKER SIZES SHOWN ARE MAXIMUM.
VERIFY FINAL SIZING AND LOADING WITH ELECTRICAL CONTRACTOR.

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140 Coalburn MacLellan's Brook Rd
New Glasgow, NS, CANADA B2H 5C7

902-922-2029

www.macgregors.ca

NOTES

****** **ISSUED FOR CONSTRUCTION** ******

1. Prep, prime, and paint all modified areas to match existing container finish as closely as possible.
2. All welding to CSA standards by qualified personnel.
3. Reinforce all penetrations as required to maintain container structural integrity.
4. No heat tracing or freeze protection systems included unless noted otherwise.

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REVISION LOG

NO.	Description	Date

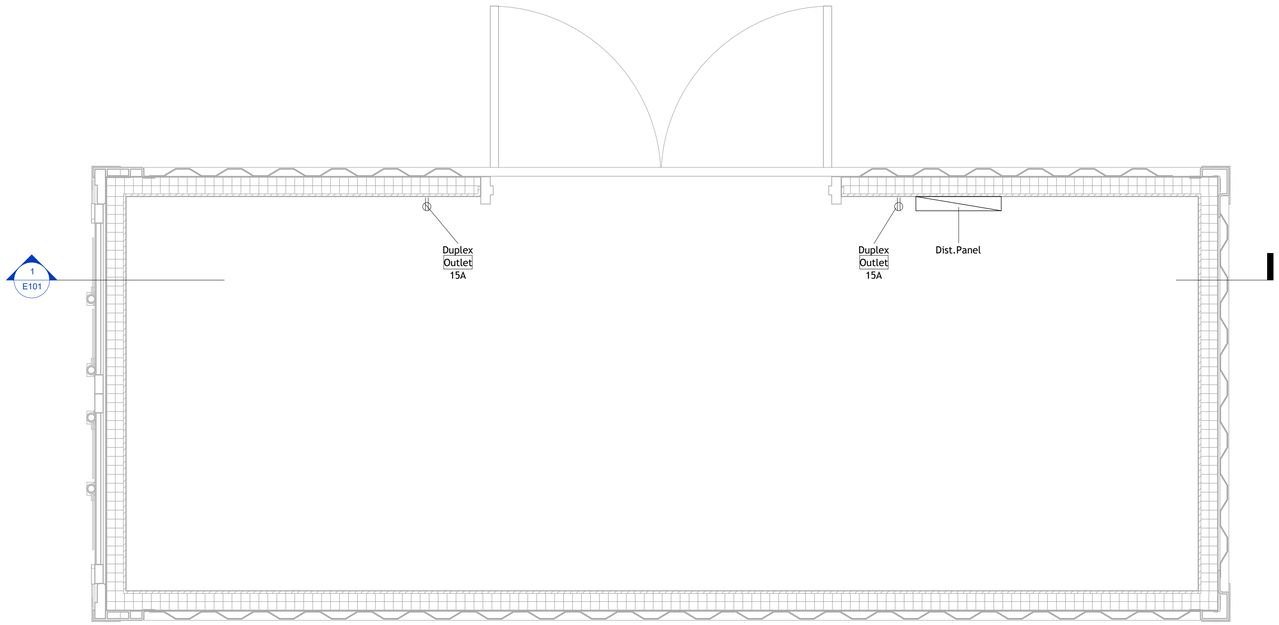
Tower Group - City of Iqaluit

11788 - LAKE GERALDINE

DRAWING #
Electrical SLD

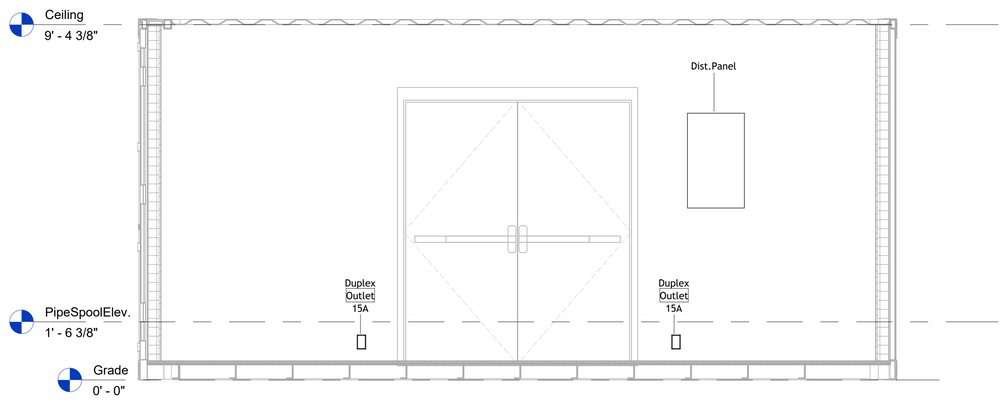
Project number	W11788
Date	JULY 23/26
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Checked by	WG
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Scale	

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2 Floor Plan - electrical

3/4" = 1'-0"



1 Section 6

1/2" = 1'-0"

ELECTRICAL NOTES

- Electrical system is generator-fed only; no utility service connection provided.
- Power source based on owner-supplied Milwaukee Roll-On Generator, 3.6kW continuous / 7.2kW surge, 120/240V, 1Ø.

- Provide two (2) 120V duplex receptacles or equivalent.
- Provide three (3) LED interior light fixtures complete with switch or equivalent.
- Provide one (1) exterior LED door light (site install)
- All electrical equipment and installation to comply with applicable codes and standards.
- Final electrical layout and routing subject to approved shop drawings and field coordination.

- ALL ELECTRICAL WIRING SHALL BE SURFACE-MOUNTED EMT CONDUIT .

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11788 - LAKE GERALDINE

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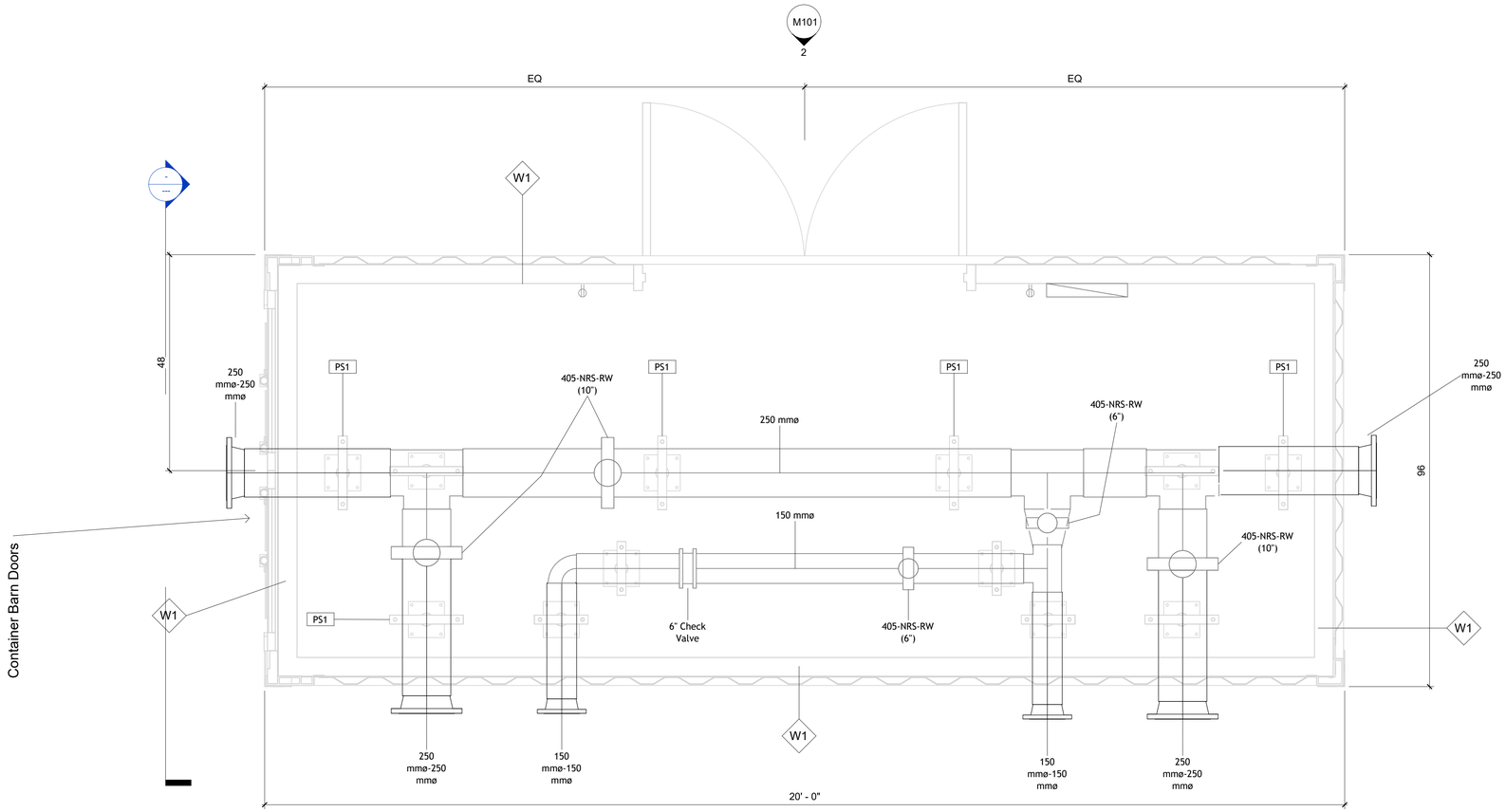
Electrical Layout

Project number	W11788
Date	JULY 23/26
Drawn by	PK
Checked by	WG
SHEET #	E101
Scale	As indicated

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PIPING COORDINATION NOTES

1. **FOR COORDINATION ONLY**
2. Refer to **MPW Drawing 26-260155-LAY-001/-PIP-XXX** and associated drawings for Specific piping detail
3. 10" and 6" gate valves shall be Series 405-NRS-RW or equivalent.
4. All fittings shall be Shurjoint stainless steel grooved-end fittings or equivalent.
5. All valves shall be flanged using Shurjoint stainless steel flange x groove adaptors or equivalent.
6. All pipe shall be SS304 Schedule 40 or equivalent.
7. All butterfly valves shall be suitable for future actuator conversion and automation upgrades..
8. PS1 : 10" PIPE STAND / PS2 : 6" PIPE STAND



1 Layout - Site

3/4" = 1'-0"

Pipe Accessory Schedule

Family and Type	Manufacturer	Model	Overall Size	Phase Created	Type	Type Mark
Check Valve - Wafer - 2-24 Inch: 6"		6" Check Valve	150 mmø-150 mmø	Factory	6"	
Butterfly Valve - 2-12 Inch: 10"	Watts	405-NRS-RW (10")	250 mmø-250 mmø	Factory	10"	GV10
Butterfly Valve - 2-12 Inch: 10"	Watts	405-NRS-RW (10")	250 mmø-250 mmø	Factory	10"	GV10
Butterfly Valve - 2-12 Inch: 10"	Watts	405-NRS-RW (10")	250 mmø-250 mmø	Factory	10"	GV10
Butterfly Valve - 2-12 Inch: 6"	Watts	405-NRS-RW (6")	150 mmø-150 mmø	Factory	6"	GV6
Butterfly Valve - 2-12 Inch: 6"	Watts	405-NRS-RW (6")	150 mmø-150 mmø	Factory	6"	GV6

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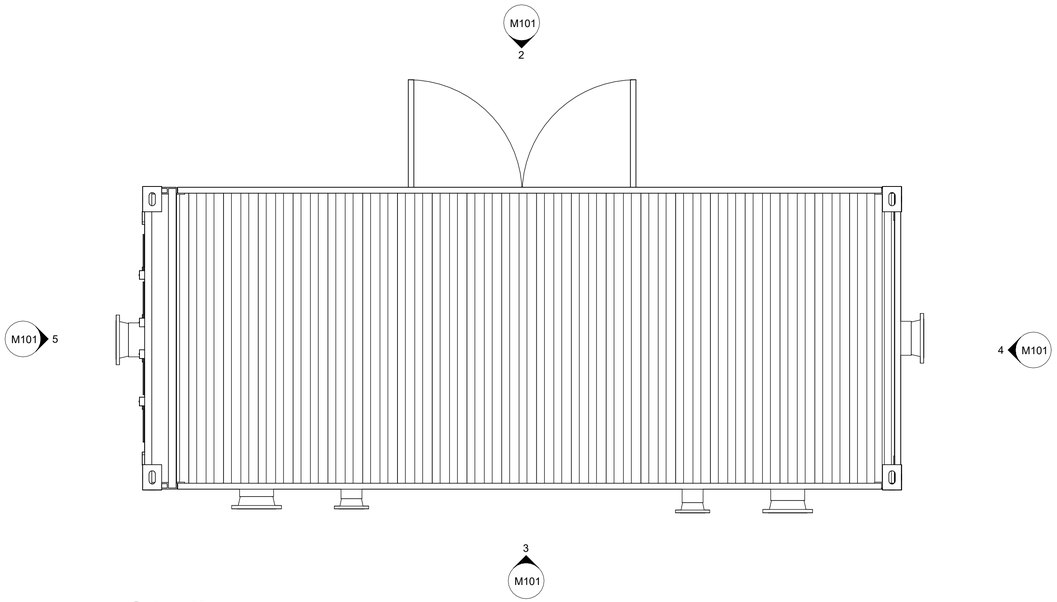
11788 - LAKE GERALDINE

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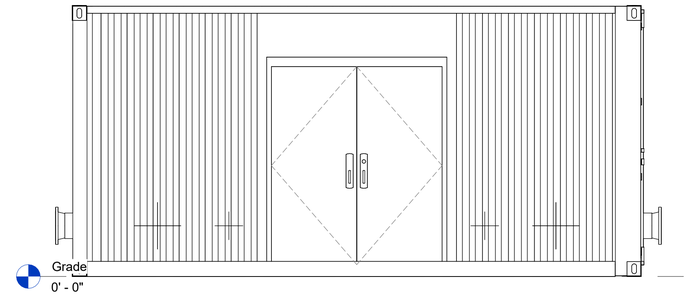
Pipe Spools

Project number	W11788
Date	JULY 23/26
Drawn by	PK
Checked by	WG
SHEET #	M100
Scale	3/4" = 1'-0"

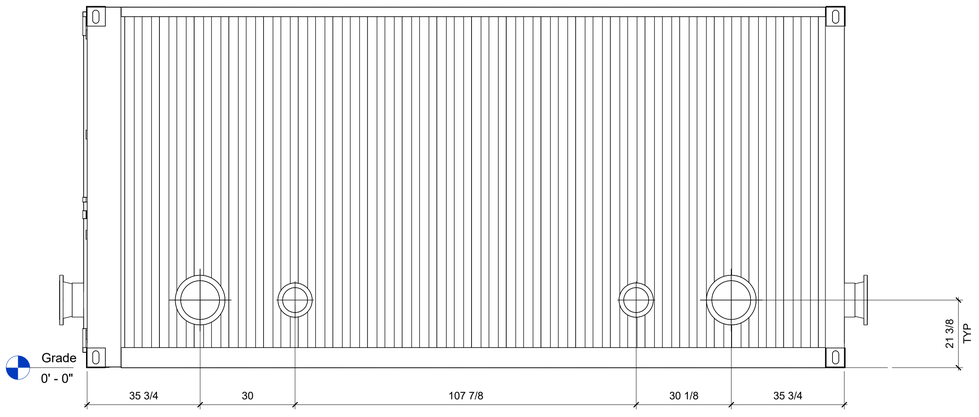
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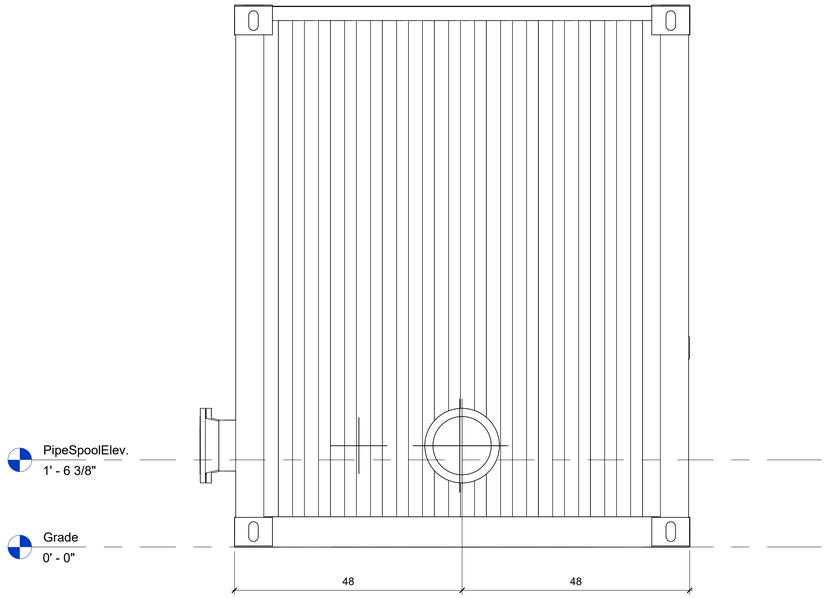
1 Site PLAN
1/2" = 1'-0"



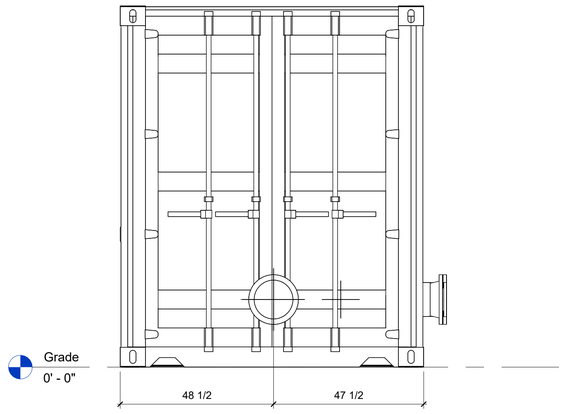
2 North - Site
3/8" = 1'-0"



3 South - Site
1/2" = 1'-0"



4 East - Site
3/4" = 1'-0"



5 West - Site
1/2" = 1'-0"

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NO.	Description	Date

Tower Group - City of Iqaluit

11788 - LAKE GERALDINE

DRAWING #
Site - Final

Project number	W11788
Date	JULY 23/26
Drawn by	PK
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SHEET #	M101
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