



## IQALUIT WASTEWATER TREATMENT PLANT UPGRADE

MAY 2018

Project Number: 1101-26045

ISSUED FOR CONSTRUCTION

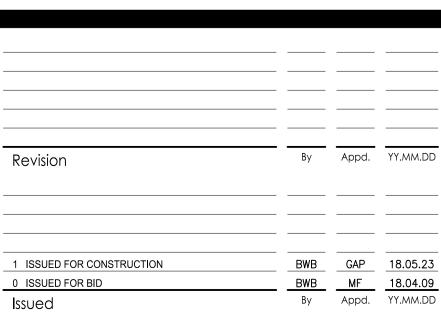
## LIST OF DRAWINGS

DWG. No. TITLE **GENERAL** COVER LIST OF DRAWINGS PROJECT LOCATION PLAN AND SITE LOCATION PLAN <u>CIVIL</u> C201 SITE PLAN PLAN / PROFILE STA. 0+000 - STA. 0+340 PLAN / PROFILE STA. 0+340 - STA. 0+724 FINAL EFFLUENT LINE PROFILE AND MISCELLANEOUS DETAILS C502 TYPICAL DETAILS ACCESS VAULTS TYPICAL DETAILS ACCESS VAULTS 1 & 2, PLAN & SECTION C505 ACCESS VAULTS 3 & 4, PLAN & SECTION C506 ACCESS VAULTS 5 & 6, PLAN & SECTION NEW ACCESS VAULT AV 213, PLAN & SECTION **STRUCTURAL** S001 **GENERAL NOTES** S002 **TABLES** S101 DEMOLITION PLAN LOWER FLOOR/FOUNDATION PLAN **UPPER FLOOR** S204 STAIRWELL ROOF PLAN & STEEL PLATFORMS S301 SECTIONS S501 DETAILS S502 DETAILS S503 **DETAILS** S504 DETAILS S505 **DETAILS** S506 **DETAILS** ISOMETRIC VIEW ARCHITECTURAL BUILDING CODE ANALYSIS, CONSTRUCTION ASSEMBLIES, GENERAL NOTES AND SYMBOL LEGEND LOWER FLOOR PLAN DEMOLITION LOWER FLOOR PLAN NEW CONSTRUCTION A203 UPPER FLOOR PLAN DEMOLITION UPPER FLOOR PLAN NEW CONSTRUCTION REFLECTED CEILING PLANS A301 WASHROOM ACCESSORIES AND SCHEDULES EXTERIOR ELEVATIONS A501 BUILDING SECTIONS A701 **DETAILS** A702 DETAILS DETAILS

Consultants

DWG. No.	TITLE
PROCESS	
P001	HYDRAULIC PROFILE
P002	PROCESS FLOW DIAGRAM
P003	MISCELLANEOUS DETAILS
P101	DEMOLITION - LOWER PLAN
P102	DEMOLITION - UPPER PLAN
P201	PLAN - LOWER
P202	PLAN - UPPER
P501	LOWER - HEADWORKS BUILDING DETAILS
P502	LOWER - TWAS TANKS AND BFP FEED PUMPS DETAILS
P503 P504	LOWER - MBBR TANK 1 AND 2 DETAILS LOWER - DAF UNITS 1 AND 2 DETAILS
P504 P505	UPPER - FINE SCREENS AND PRIMARY FILTERS DETAILS
P506	LOWER AND UPPER LEVELS BLOWERS/BELT FILTER PRESS AND DOSING SYSTEMS DETAILS
P507	UPPER - PROCESS AIR (PA) PIPING DETAIL
P508	PROCESS AIR ANCHOR AND GUIDE LOCATIONS UPPER LEVEL - PLAN
P509	TWAS PUMPS AND PIPING DETAILS
P510	BFP FEED PUMPS DETAILS
P511	LOWER - EQUIPMENT PAD LOCATIONS DETAIL
P512	BRIDGE CRANE DIMENSIONS DETAILS
P513	SOLIDS DISHCARGE - PIPES AND CHUTES DETAILS
P601	PIPING AND INSTRUMENTATION DIAGRAM - LEGEND SHEET 1 OF 3
P602	PIPING AND INSTRUMENTATION DIAGRAM - LEGEND SHEET 2 OF 3
P603	PIPING AND INSTRUMENTATION DIAGRAM - LEGEND SHEET 3 OF 3
P604	PIPING AND INSTRUMENTATION DIAGRAM - WET WELL
P605	PIPING AND INSTRUMENTATION DIAGRAM - SCREENING
P606	PIPING AND INSTRUMENTATION DIAGRAM - PRIMARY FILTER 1
P607	PIPING AND INSTRUMENTATION DIAGRAM - PRIMARY FILTER 2 PIPING AND INSTRUMENTATION DIAGRAM - PRIMARY FILTER BLOWERS
P608 P609	PIPING AND INSTRUMENTATION DIAGRAM - PROCESS AERATION BLOWERS
P610	PIPING AND INSTRUMENTATION DIAGRAM - PROCESS AERATION BLOWERS  PIPING AND INSTRUMENTATION DIAGRAM - MOVING BED BIOFILM REACTORS
P611	PIPING AND INSTRUMENTATION DIAGRAM - DISSOLVED AIR FLOTATION 1
P612	PIPING AND INSTRUMENTATION DIAGRAM - DISSOLVED AIR FLOTATION 1 - WHITE WATER PUMPING
P613	PIPING AND INSTRUMENTATION DIAGRAM - DISSOLVED AIR FLOTATION 2
P614	PIPING AND INSTRUMENTATION DIAGRAM - DISSOLVED AIR FLOTATION 2 - WHITE WATER PUMPING
P615	PIPING AND INSTRUMENTATION DIAGRAM - DAF POLYMER SYSTEM
P616	PIPING AND INSTRUMENTATION DIAGRAM - DAF POLYMER DOSING PUMP SYSTEM
P617	PIPING AND INSTRUMENTATION DIAGRAM - TWAS PUMPS AND TWAS AERATED STORAGE TANKS
P618	PIPING AND INSTRUMENTATION DIAGRAM - BFP PUMPS AND BELT FILTER PRESS
P619	PIPING AND INSTRUMENTATION DIAGRAM - BELT FILTER PRESS POLYMER DOSING SYSTEM
P620	PIPING AND INSTRUMENTATION DIAGRAM - BELT FILTER PRESS POLYMER DOSING PUMP SYSTEM
HVAC MECHANICAL	
M001	LEGENDS AND NOTES
M101	PLAN - LOWER LEVEL DEMOLITION PLUMBING & HEATING
M102 M103	PLAN - UPPER LEVEL DEMOLITION PLUMBING AND HEATING PLAN - LOWER LEVEL DEMOLITION VENTILATION
M104	PLAN - LOWER LEVEL DEMOLITION VENTILATION PLAN - UPPER LEVEL DEMOLITION VENTILATION
M201	PLAN - LOWER LEVEL PLUMBING
M202	PLAN - UPPER LEVEL PLUMBING
M301	PLAN - LOWER LEVEL HEATING
M302	PLAN - UPPER LEVEL HEATING
M401	PLAN - LOWER LEVEL VENTILATION
M402	PLAN - UPPER LEVEL VENTILATION
M500	PLAN - MECHANICAL ROOM
M503	PLAN - TEMPORARY RELOCATE & STAGING RECOMMENDATIONS
M601	SCHEMATICS - VENTILATION & CONTROLS
M602	SCHEMATICS - HEATING WATER
M603	SCHEMATICS - DOMESTIC WATER & SANITARY
M604	SCHEMATICS - FUEL OIL
M701	DETAILS - SHEET 1
M702	DETAILS - SHEET 2
M801 M802	SCHEDULES - SHEET 1 SCHEDULES - SHEET 2
IVIOUZ	OUTILDULEO - OTTLET Z

**ELECTRICAL** ELECTRICAL LEGEND AND SITE PLAN CLASSIFICATION PLANS LOWER FLOOR DEMO LIGHTING PLAN UPPER FLOOR DEMO LIGHTING PLAN LOWER FLOOR DEMO POWER PLAN UPPER FLOOR DEMO POWER, CABLE TRAY AND LOW TENSION PLAN TEMPORARY ELECTRICAL ROOM LAYOUT AND ELEVATION LOWER FLOOR NEW LIGHTING PLAN UPPER FLOOR NEW LIGHTING PLAN LOWER FLOOR NEW POWER AND FIRE ALARM PLAN UPPER FLOOR NEW POWER AND FIRE ALARM PLAN LOWER FLOOR NEW CABLE TRAY AND INTRUSION ALARM PLAN UPPER FLOOR NEW CABLE TRAY AND INTRUSION ALARM PLAN EXISTING AND NEW ELECTRICAL EQUIPMENT ELEVATIONS ELECTRICAL DETAILS EXISTING SINGLE LINE DIAGRAM TEMPORARY SINGLE LINE DIAGRAM FINAL SINGLE LINE DIAGRAM NEW FIRE ALARM RISER DIAGRAM PROCESS MOTOR, CONTROL AND EQUIPMENT SCHEDULE BUILDING MECHANICAL MOTOR, CONTROL AND EQUIPMENT SCHEDULE EXISTING PANELS SCHEDULE NEW PANELS SCHEDULE INSTRUMENTATION AND PROCESS CONTROLS INSTRUMENTATION LEGEND 1101 LOWER PLANS 1102 **UPPER PLANS** PLAN - LOWER, HEADWORKS 1202 PLAN - LOWER, BFP 1203 PLAN - LOWER, DAF PLAN - UPPER, HEADWORKS 1205 PLAN - UPPER, ELECTRICAL RM & BFP PLAN - UPPER, MBBR & DAF 1207 PLAN - UPPER, ELECTRICAL ROOM STANDARD DETAILS 1 OF 2 1502 STANDARD DETAILS 2 OF 2 PRIMARY TREATMENT CABLE SCHEDULE SECONDARY TREATMENT CABLE SCHEDULE 1 OF 2 SECONDARY TREATMENT CABLE SCHEDULE 2 OF 2 PLC CABINET EXTERIOR LAYOUT CPL-900 PLC CABINET INTERIOR LAYOUT CPL-900 BILL OF MATERIALS CPL-900 PC104 CHASSIS LAYOUT CPL-900 POWER DISTRIBUTION - 120VAC 1 OF 2 CPL-900 POWER DISTRIBUTION - 24VDC 2 OF 2 CPL-900 TERMINAL STRIP DETAILS 1 OF 2 CPL-900 DRAWING NUMBER IDENTIFICATION PC108 TERMINAL STRIP DETAILS 2 OF 2 CPL-900 COMMUNICATIONS DIAGRAM CPL-900 & CPL-901 C00, PLC CARD SLOT 1 DIGITAL INPUT, CPL-900 PLC CARD SLOT 2 DIGITAL INPUT, CPL-900 PC112 PLC CARD SLOT 3 DIGITAL INPUT, CPL-900 DRAWING TYPE PLC CARD SLOT 4 RELAY OUTPUT, CPL-900 DISCIPLINE PLC CARD SLOT 5 RELAY OUTPUT, CPL-900 DISCIPLINES: PLC CARD SLOT 6 RELAY OUTPUT, CPL-900 PC116 PLC CARD SLOT 7 ANALOG INPUT, CPL-900 GENERAL PLC CARD SLOT 8 ANALOG INPUT, CPL-900 CIVIL PC118 PLC CARD SLOT 9 ANALOG INPUT, CPL-900 STRUCTURAL PLC CARD SLOT 10 ANALOG OUTPUT, CPL-900 PLC CABINET EXTERIOR LAYOUT CPL-901 **ARCHITECTURAL** PLC CABINET INTERIOR LAYOUT CPL-901 **PROCESS** BILL OF MATERIALS CPL-901 **MECHANICAL** CHASSIS LAYOUT CPL-901 POWER DISTRIBUTION - 1 OF 2 CPL-901 ELECTRICAL POWER DISTRIBUTION - 2 OF 2 CPL-901 INSTRUMENTATION & PROCESS CONTROLS TERMINAL STRIP DETAILS 1 OF 2 CPL-901 TERMINAL STRIP DETAILS 2 OF 2 CPL-901 **DRAWING TYPES:** PLC CARD SLOT 1 DIGITAL INPUT, CPL-901 001-099 GENERAL (SYMBOLS, LEGENDS, NOTES) PLC CARD SLOT 2 DIGITAL INPUT, CPL-901 101-199 DEMOLITION PLC CARD SLOT 3 DIGITAL INPUT, CPL-901 PLC CARD SLOT 4 DIGITAL INPUT, CPL-901 201-299 PLAN VIEWS PLC CARD SLOT 5 DIGITAL INPUT, CPL-901 301-399 ELEVATIONS PLC CARD SLOT 6 DIGITAL INPUT, CPL-901 401-499 SECTIONS PLC CARD SLOT 7 RELAY OUTPUT, CPL-901 PLC CARD SLOT 8 RELAY OUTPUT, CPL-901 501-599 DETAILS PLC CARD SLOT 9 RELAY OUTPUT, CPL-901 601-699 SCHEDULES AND DIAGRAMS (INCLUDES P&ID'S) PLC CARD SLOT 10 ANALOG INPUT, CPL-901



NT/NU Association of Professional Engineers and Geoscientists

# 110126045

Permit-Seal





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File Name: G001\_002.dwg

DWG. No. TITLE

IQALUIT WASTEWATER TREATMENT PLANT

BWB GAP KLB 16.06.23

Dwn. Chkd. Dsgn. YY.MM.DD

UPGRADE

City of Igaluit, Nunavut

PLC CARD SLOT 11 ANALOG INPUT, CPL-901
PLC CARD SLOT 12 ANALOG INPUT, CPL-901
PLC CARD SLOT 13 ANALOG OUTPUT, CPL-901

PC222 PLC CARD SLOT 14 ANALOG OUTPUT, CPL-901

Project No.
110126045

Drawing No.

Sheet

1 of 2

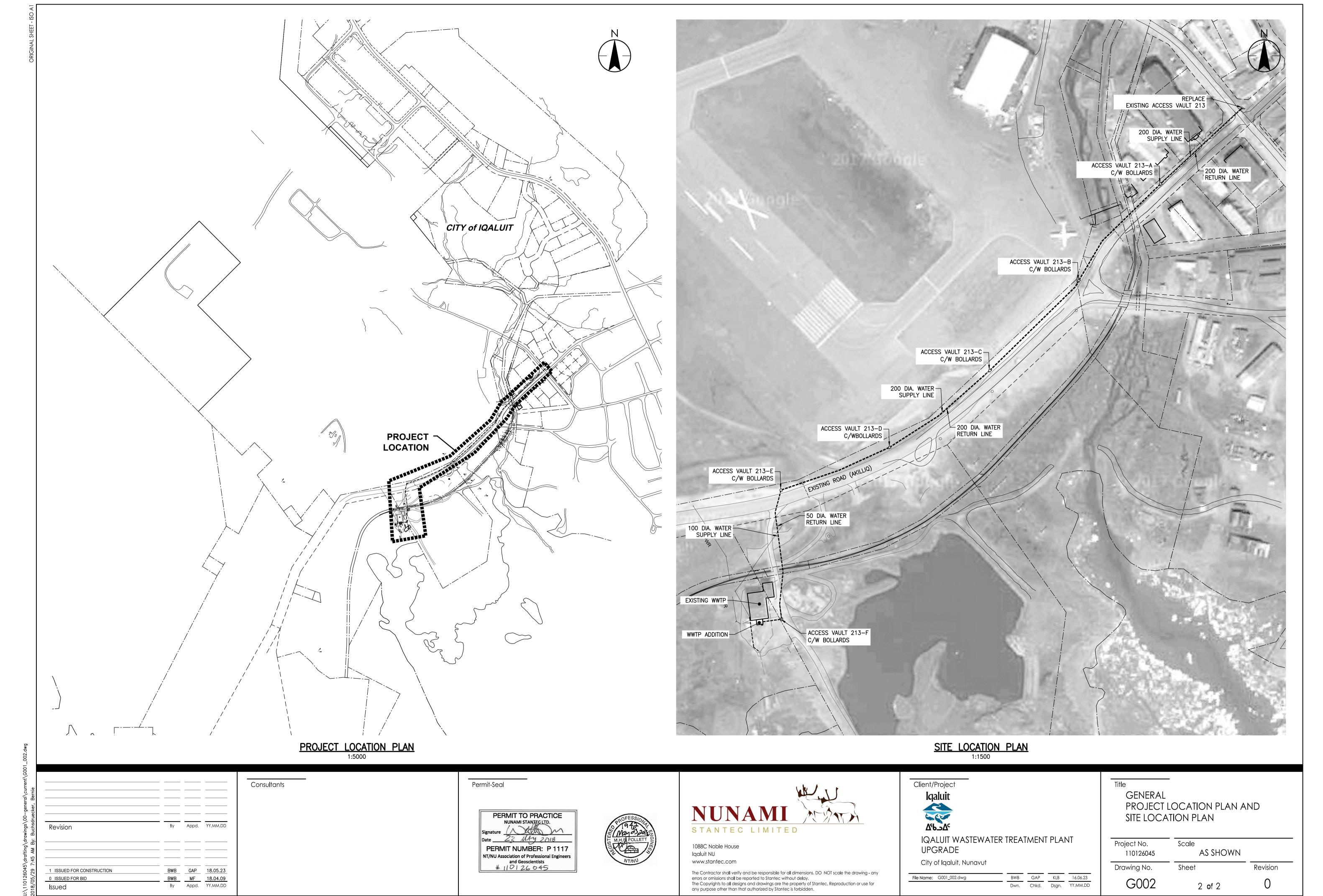
Scale
Revision

GENERAL

LIST OF DRAWINGS

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ORIGINAL SHEET - ISO A1



ORIGINAL SHEET - ISO A1