



SEWER PROTECTION UPGRADES PRELIMINARY DESIGN REPORT

JANUARY 2021

Project Number: 1101-26069

NOT FOR CONSTRUCTION

ORIGINAL SHEET - ISO A1

U:\110126069 - NWTP - L5#1\Drawings\Drawings\Current\26069c-100-516_recover.dwg
2020/12/15 2:21 PM By: Mathews, Jim



4	---	---	---	---
3	---	---	---	---
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Revision		By	Appd.	YY.MM.DD
E	---	---	---	---
D	---	---	---	---
C	---	---	---	---
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A	ISSUED FOR PRELIMINARY DESIGN	IGM	WO	20.12.18
Issued		By	Appd.	YY.MM.DD
26065c-516.dwg		XX	GP	XX 20.12.15

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**IQUALUIT SEWER PROTECTION SYSTEM
UPGRADES**

City of Iqaluit, Nunavut

File Name: 26069c-100-516.dwg
IGM Dwn. GP Ckld. IGM Dgn. 20.09.10 YY.MM.DD

Title

PROJECT LOCATION PLAN

Project No.
110126069

Drawing No.

C100

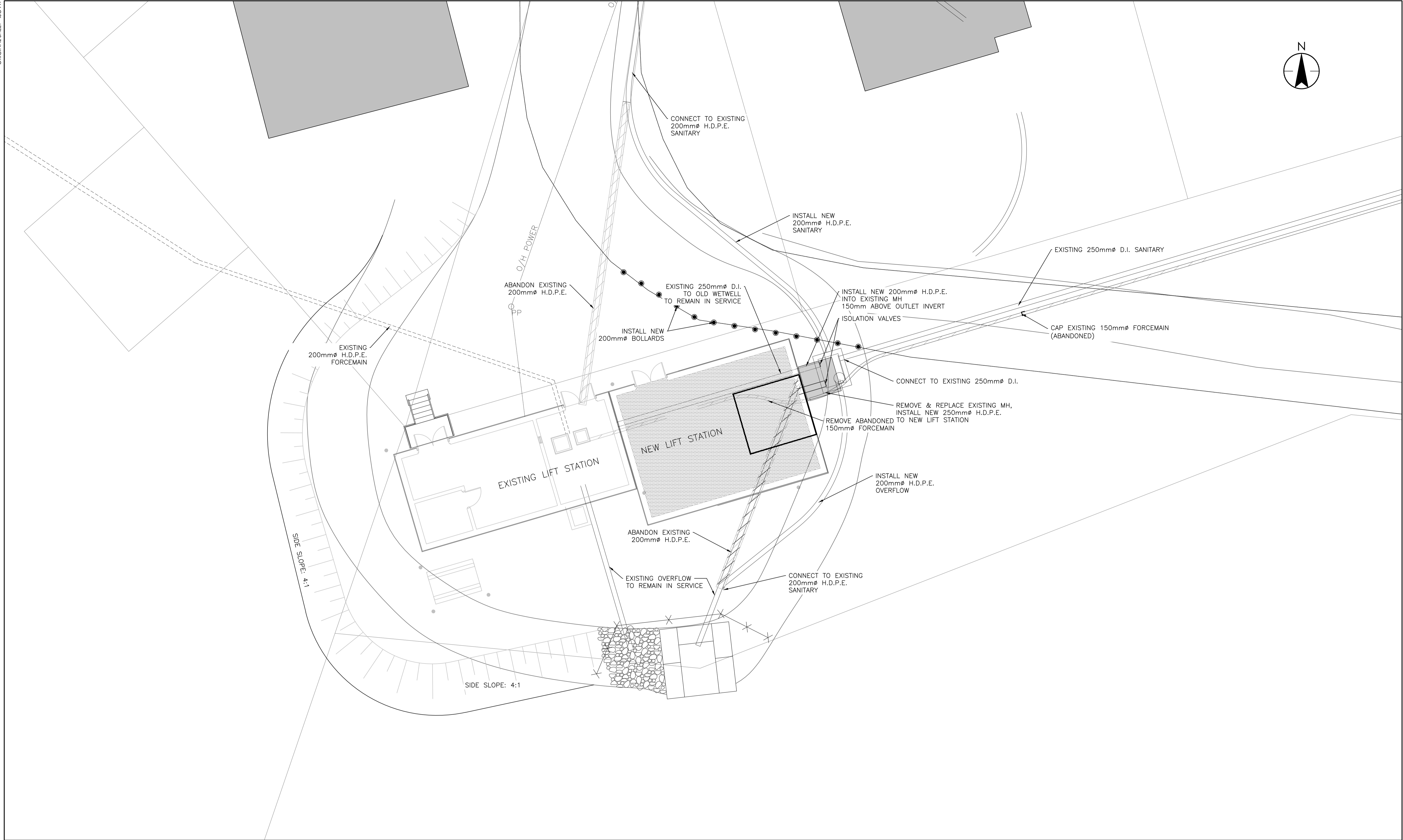
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1:200V 0 2 6 10m

Sheet
1 of 4

Revision
0

ORIGINAL SHEET - ISO A1

U:\110126069 - IWWTP - LS#1\civiling\Drawings\Current\26069c-100-516_recover.dwg
2020/12/15 2:22 PM By: Mathew, Ian



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A	ISSUED FOR PRELIMINARY DESIGN	IGM	WO	20.12.18
Issued		By	Appd.	YY.MM.DD
26065c-516.dwg		XX	GP	XX 20.12.15

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UPGRADES**

City of Iqaluit, Nunavut

File Name:	26069c-100-516.dwg	IGM	GP	IGM	20.09.10
		Dwn.	Chkd.	Dign.	YY.MM.DD

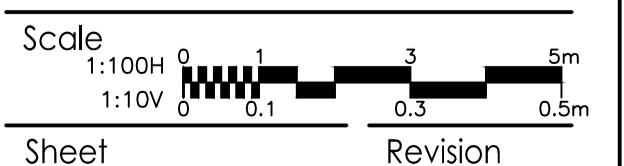
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LS # 1 SITE PLAN

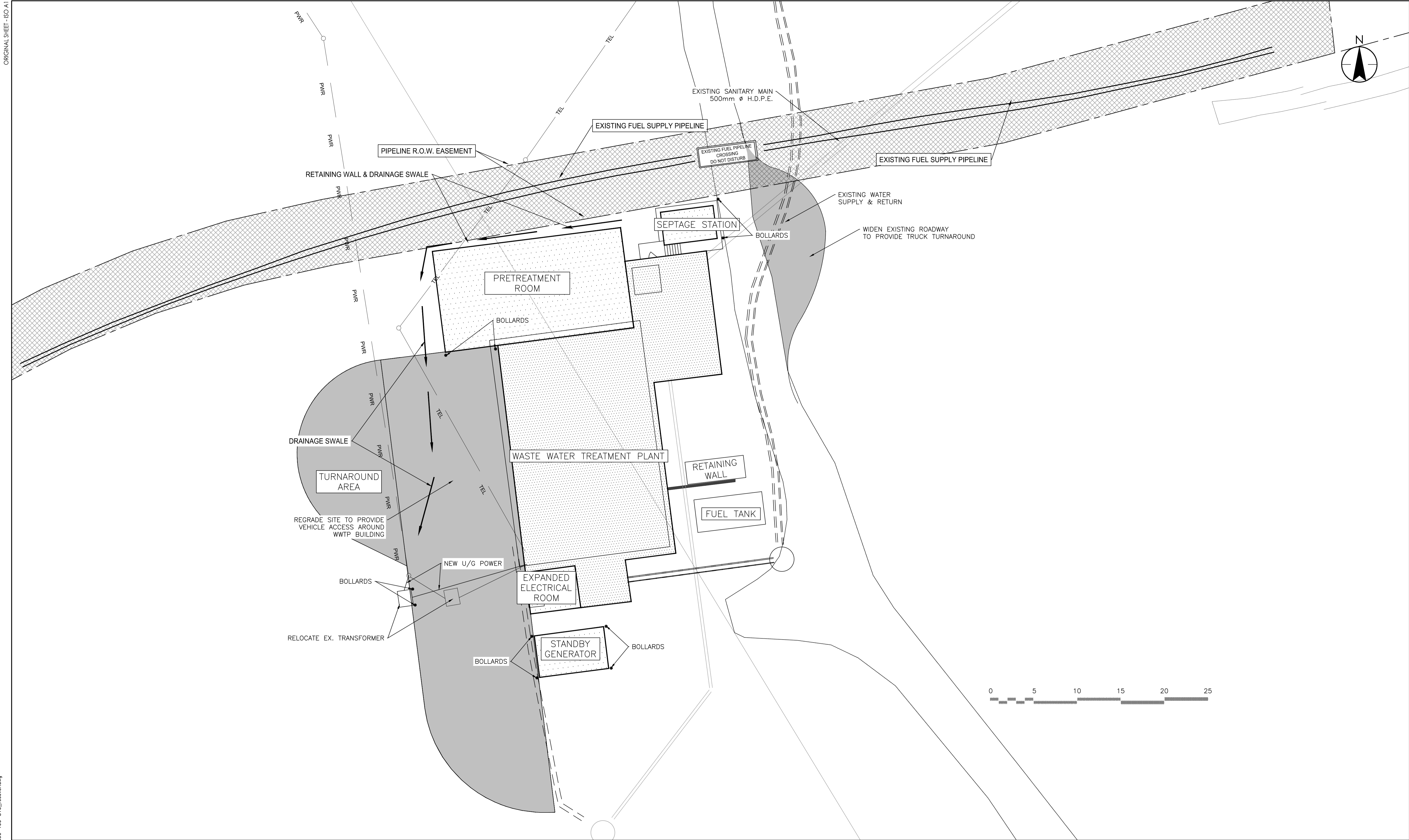
Project No.
110126069

Drawing No.

C101



of 4



U:\110126069_WWTP_LSA\Working\Drawings\Current\26069c-100-516_recover.dwg
2020/12/15 2:22 PM By: Malters, Ian

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Revision				
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By	IGM	WO	20.12.18	
Appd.	By	Appd.	YY.MM.DD	
26069c-516.dwg	XX	GP	XX	20.12.15

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UPGRADES**
City of Iqaluit, Nunavut

File Name:	26069c-100-516.dwg	IGM	GP	IGM	20.10.23
		Dwn.	Chkd.	Dign.	YY.MM.DD

Title

WWTP SITE PLAN

Project No.
110126069

Scale
AS NOTED

Drawing No.

C103

Sheet

3 of 4

Revision

0



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Iqaluit

CITY OF IQALUIT



IQALUIT SEWER PROTECTION UPGRADES

Iqaluit, Nunavut

File Name: N/A

SM/CI

Designer

Checker

2020.10.30

YYYY.MM.DD

Title

LOWER FLOOR PLAN - HEADWORKS

Project No.
110126069

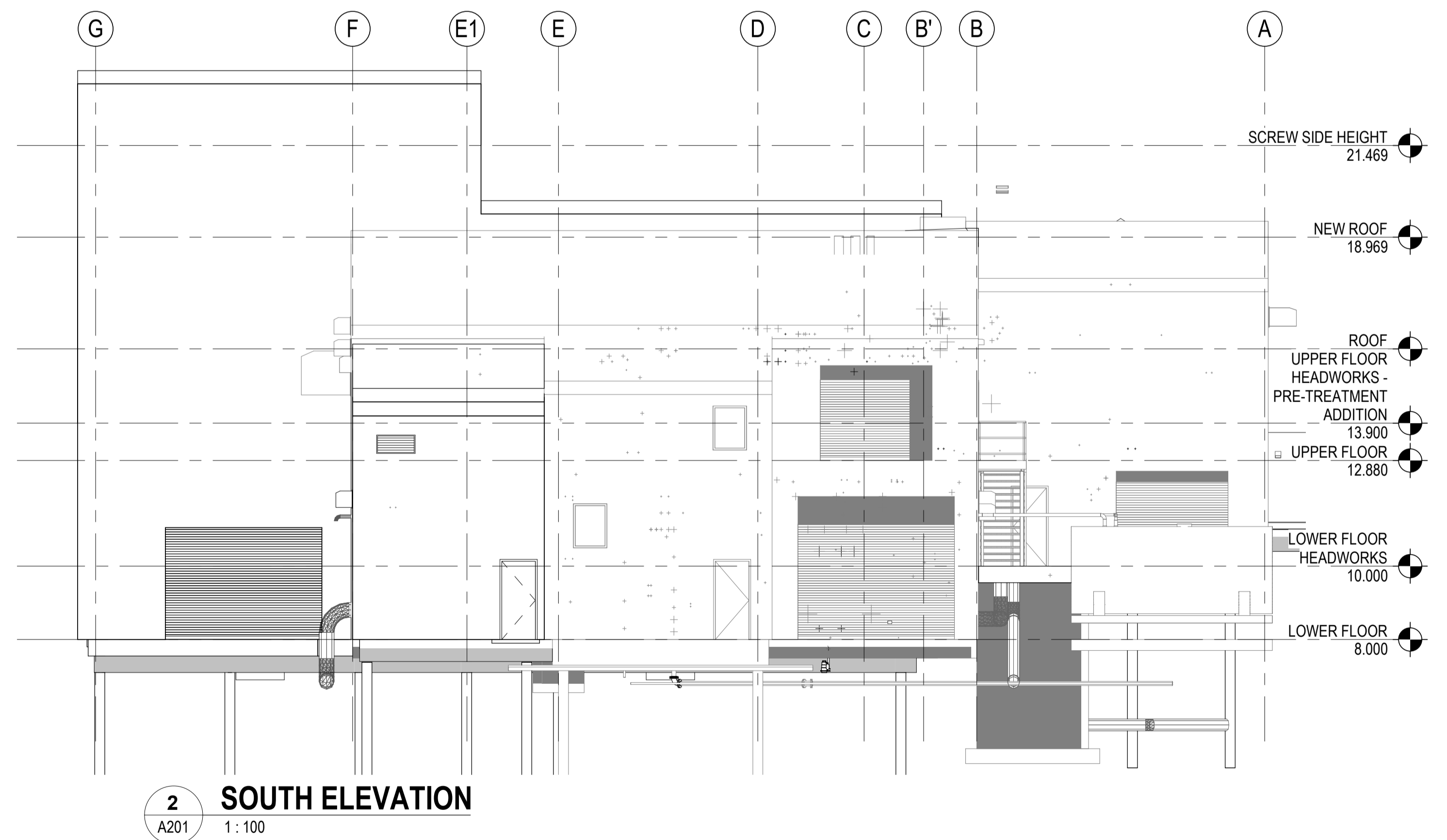
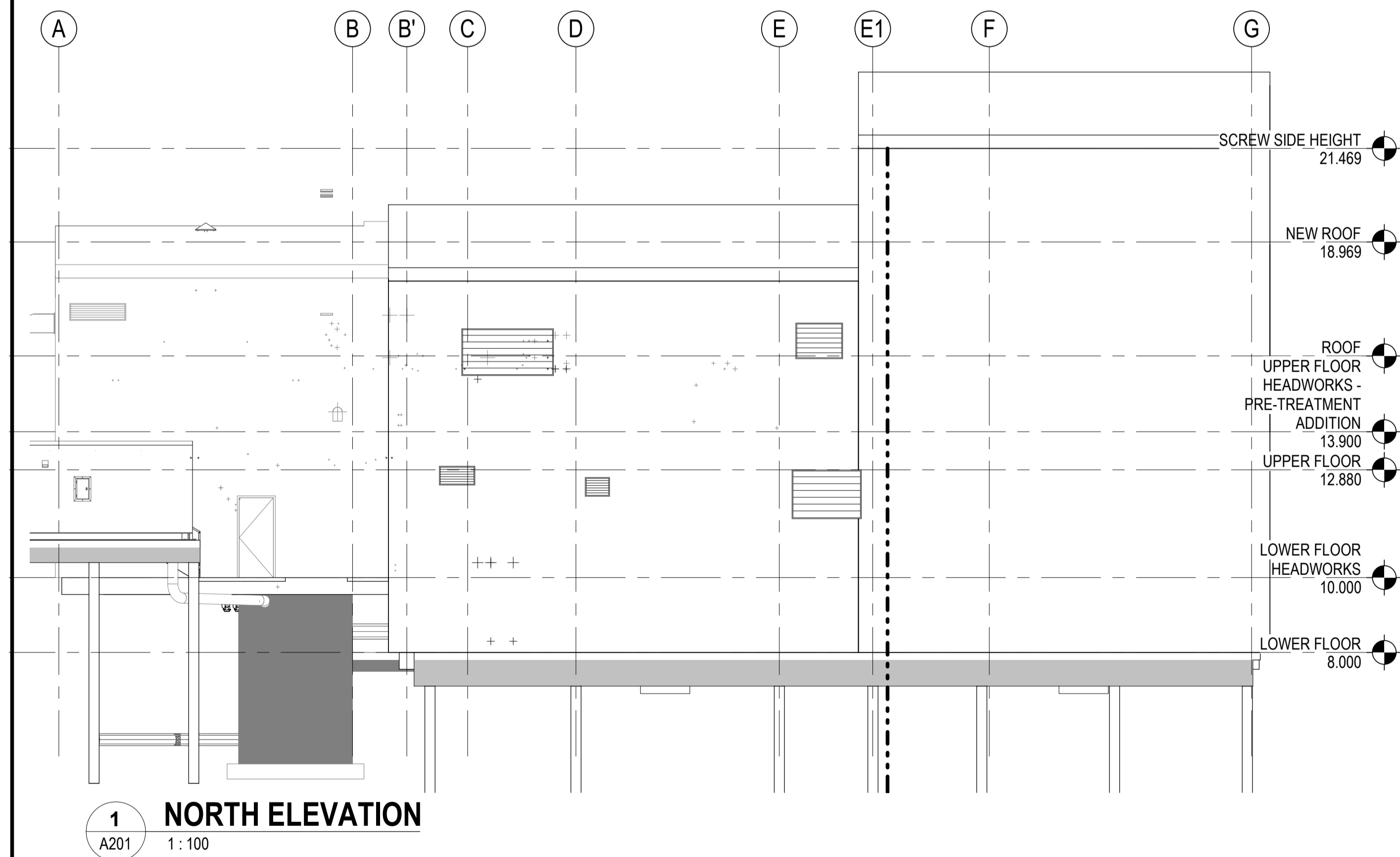
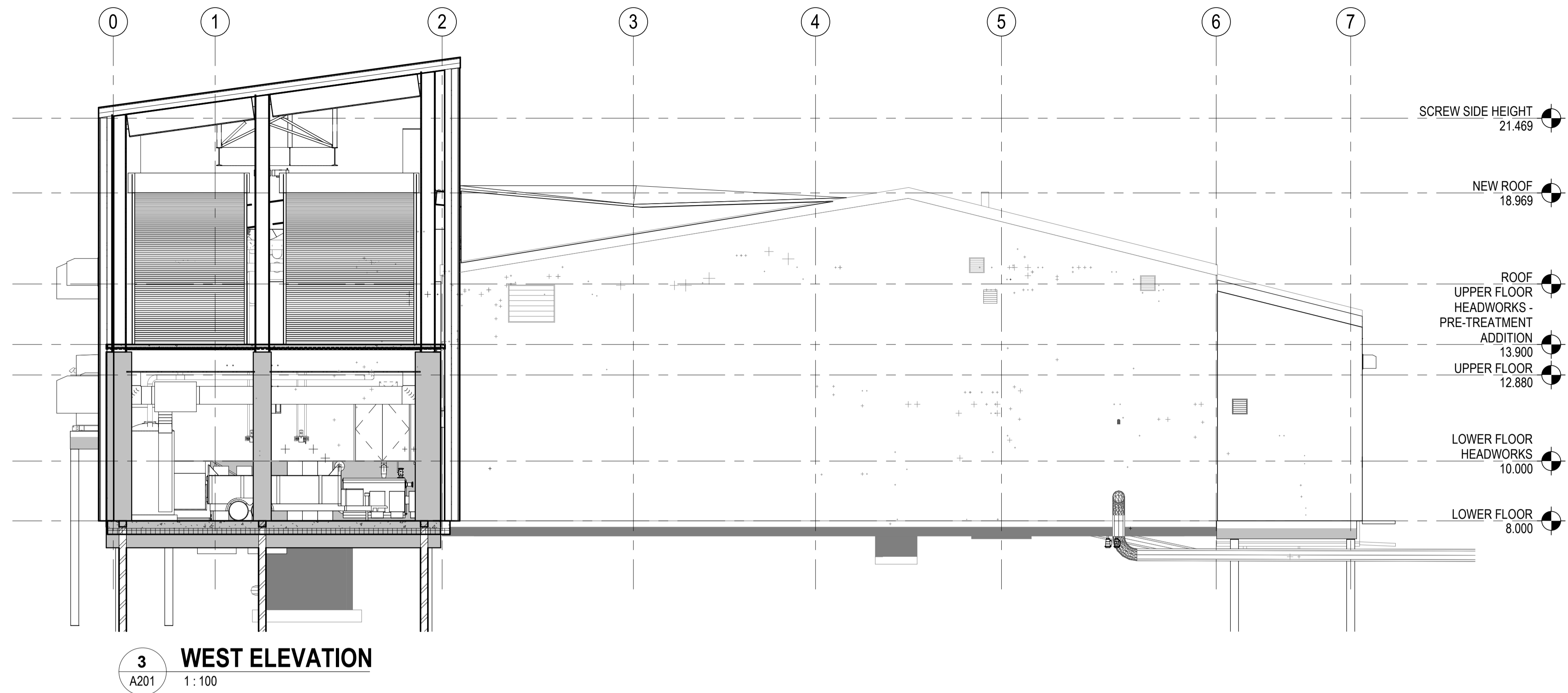
Revision

Revision

Scale
As indicated

Drawing No.

A101



Revision	By	Appd	YYYY.MM.DD
0 ISSUED FOR PRELIMINARY DESIGN	SM	JA	2020.12.18
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Iqaluit CITY OF IQALUIT



IQALUIT SEWER PROTECTION UPGRADES

Iqaluit, Nunavut

File Name: N/A	SM/CE Dwn.	Designer Dgn.	Checker Chkd.	2020.10.30 YYYY.MM.DD
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Title

EXTERIOR ELEVATIONS

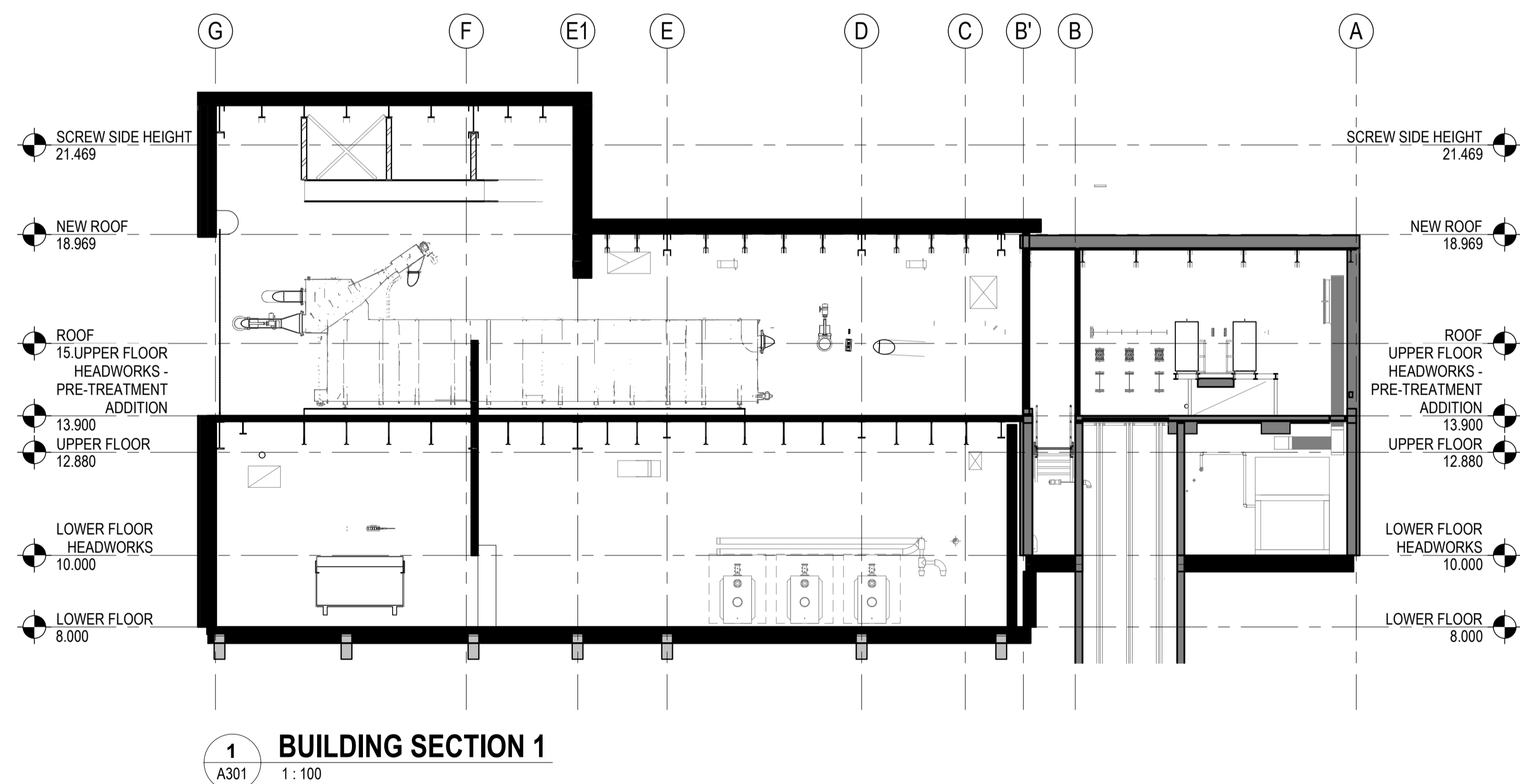
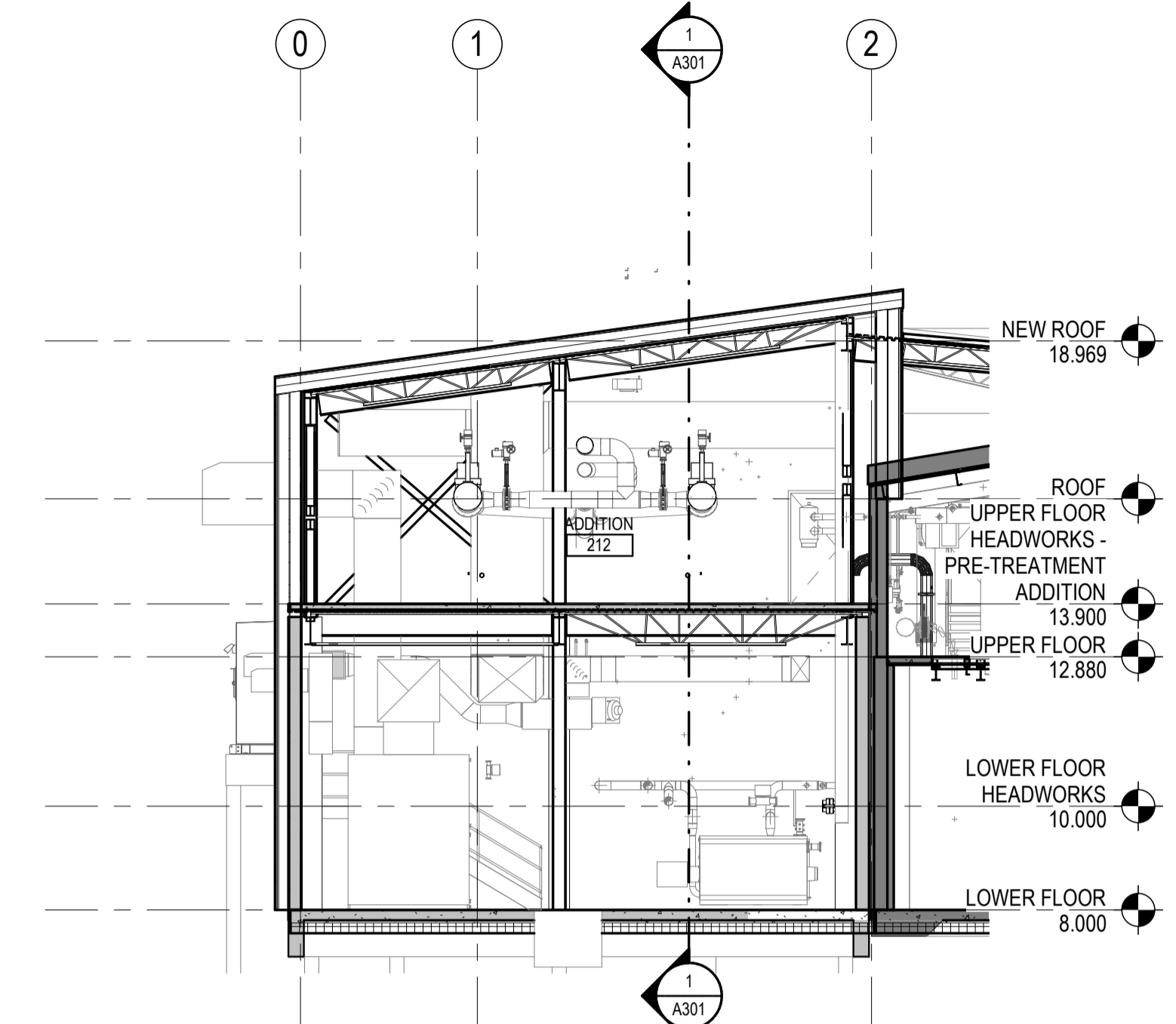
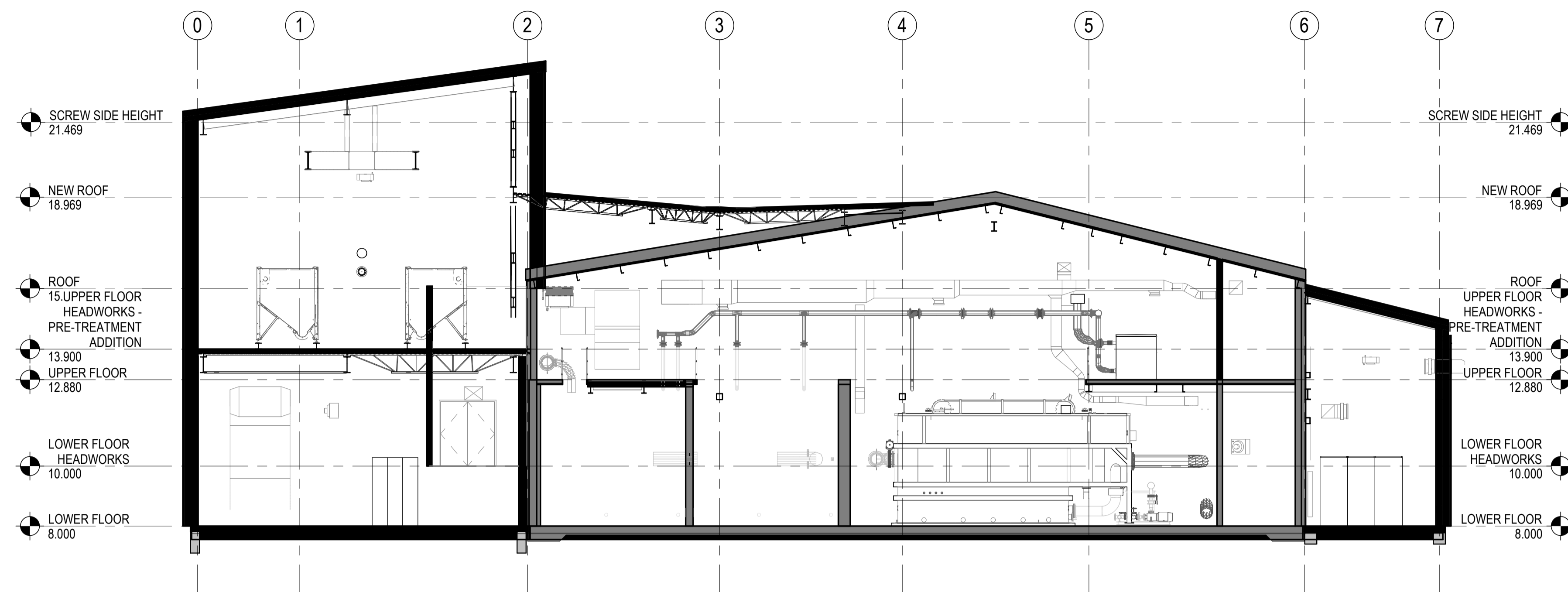
Project No.
110126069

Revision

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1 : 100

Drawing No.

A201



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Iqaluit

CITY OF IQALUIT



IQALUIT SEWER PROTECTION UPGRADES

Iqaluit, Nunavut

File Name: N/A	SM/CE	Designer	Checker	2020.10.30
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

	Title
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BUILDING SECTIONS

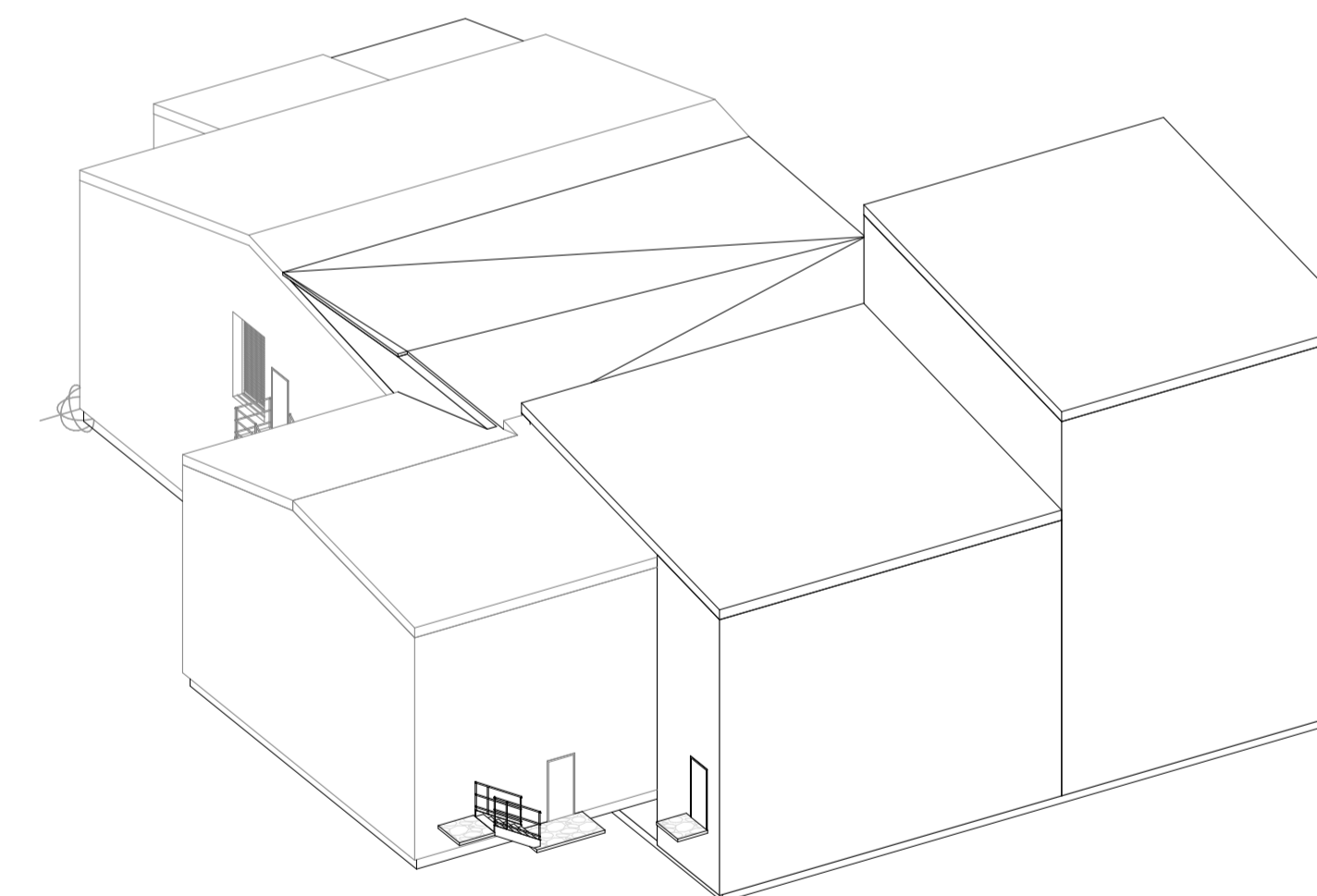
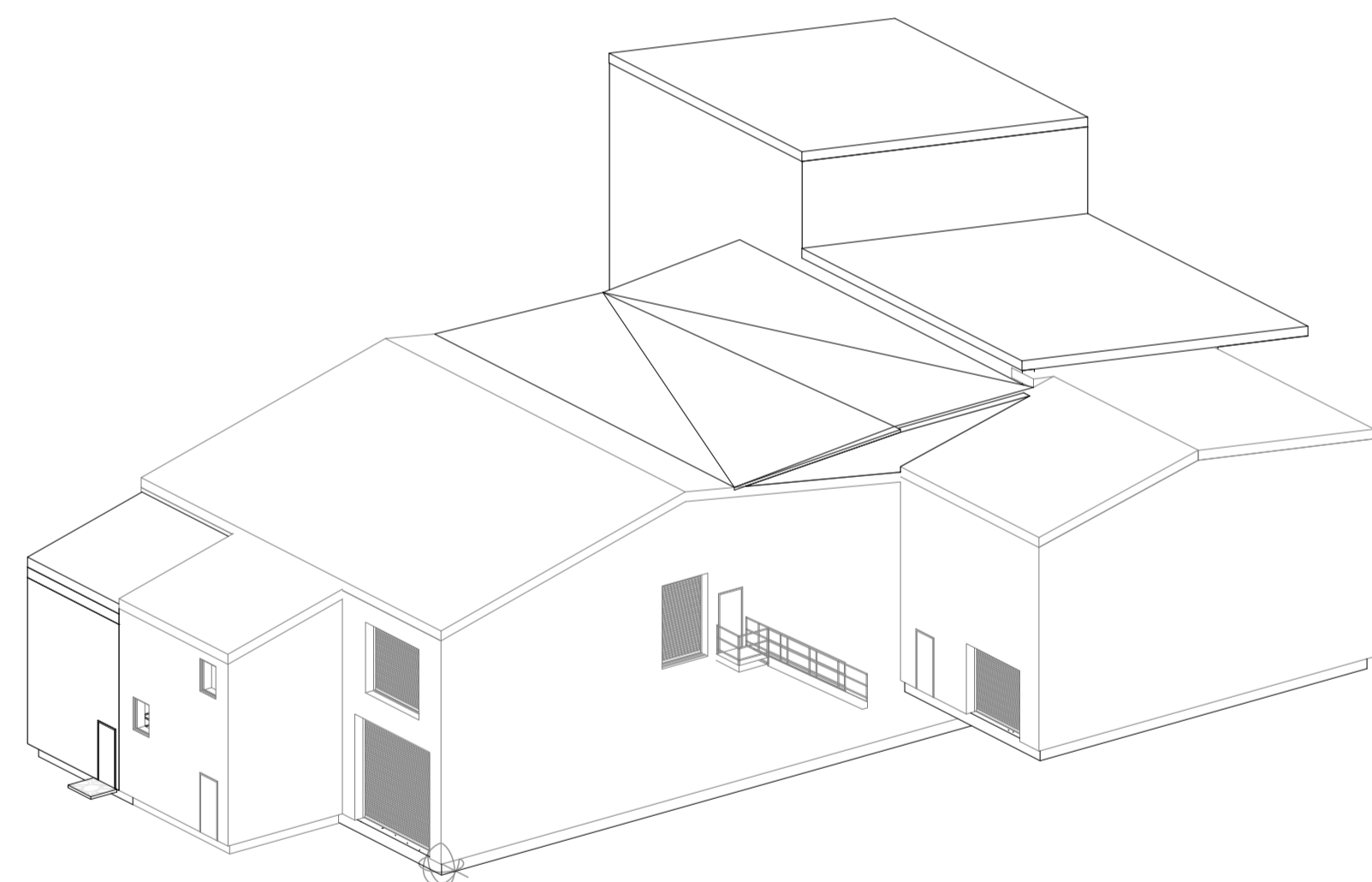
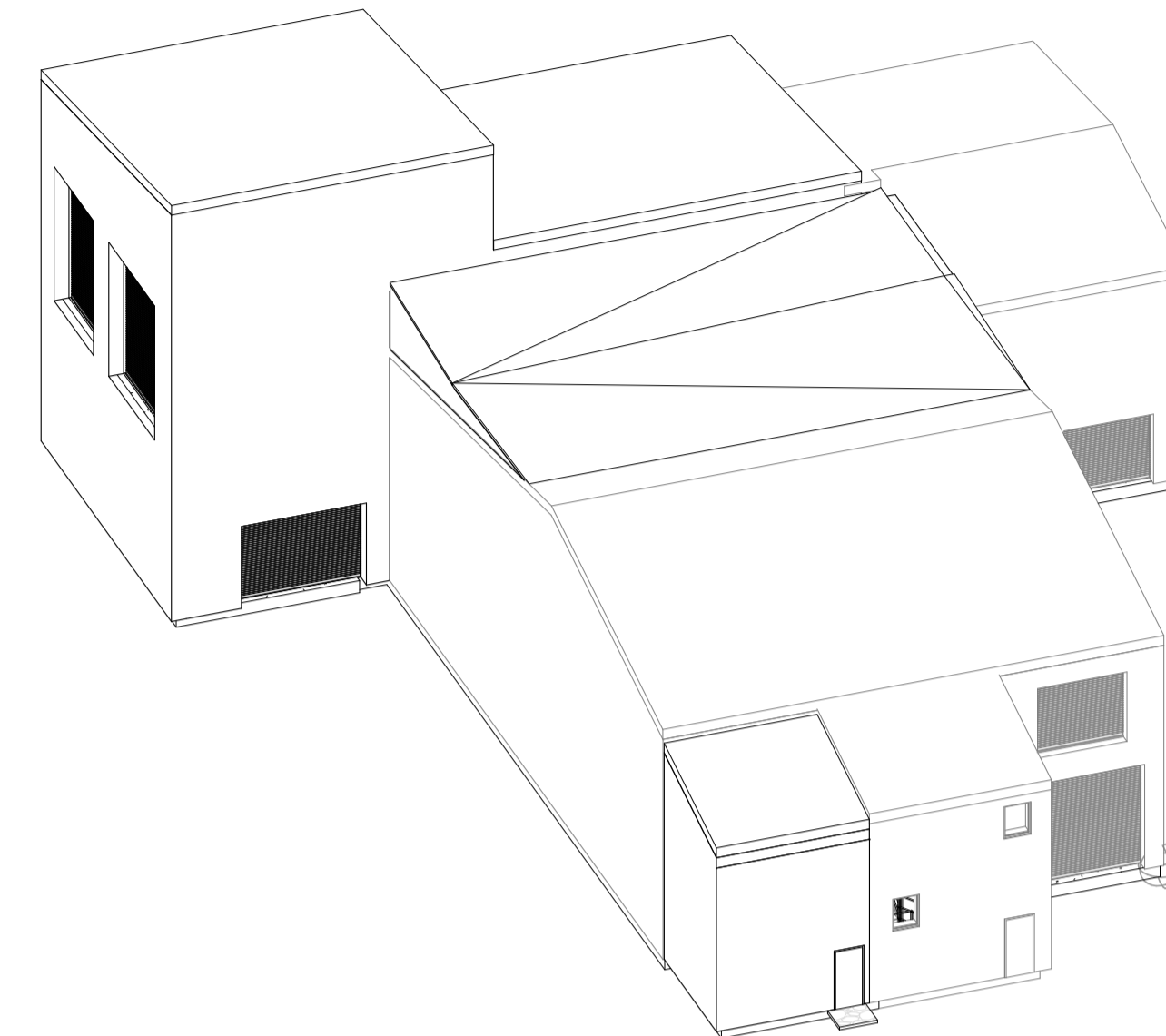
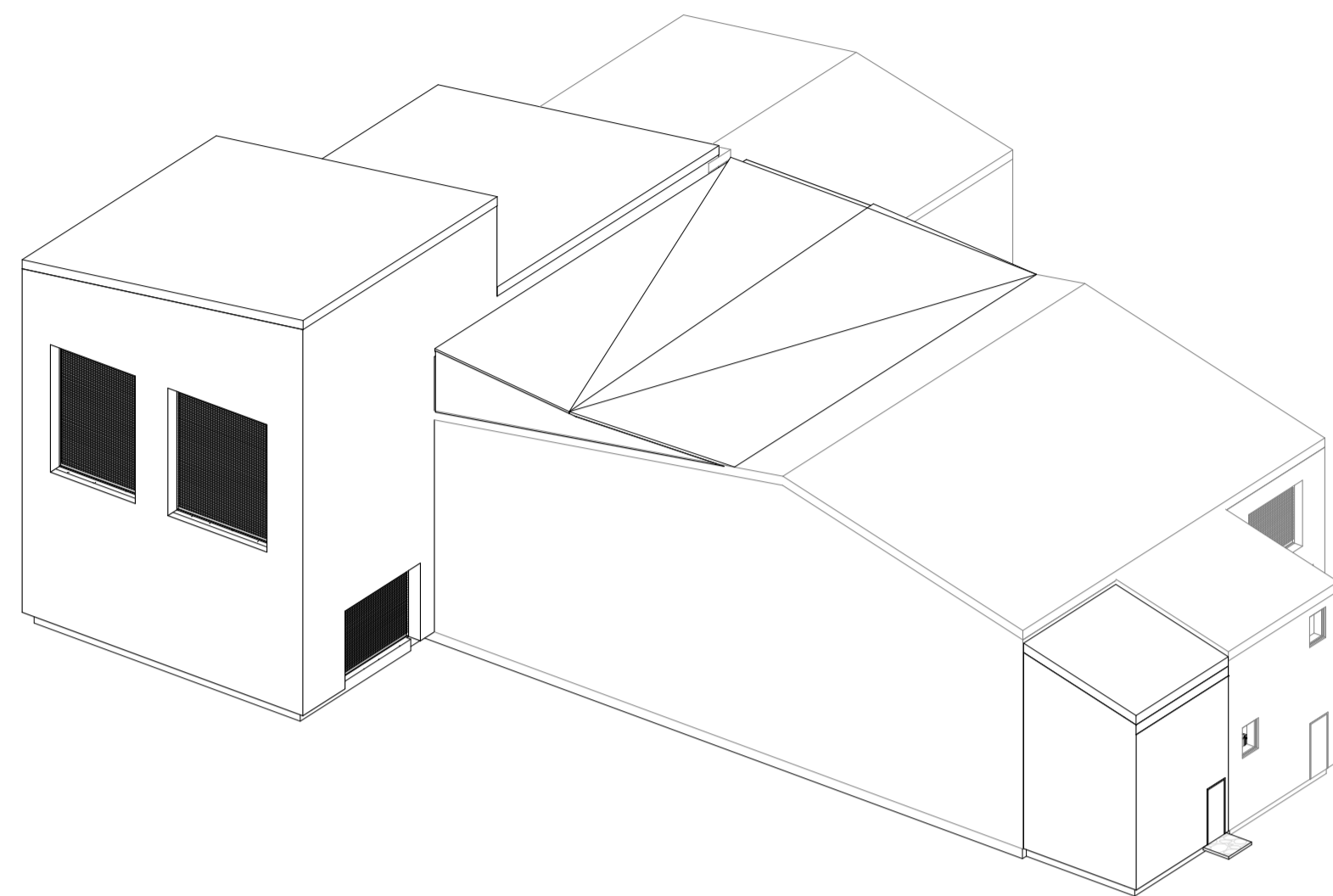
Project No.
110126069

Revision

Scale
1 : 100

Drawing No.

A301

[illegible]

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Client/Project
Iqaluit

 CITY OF IQALUIT

 IQALUIT SEWER PROTECTION UPGRADES

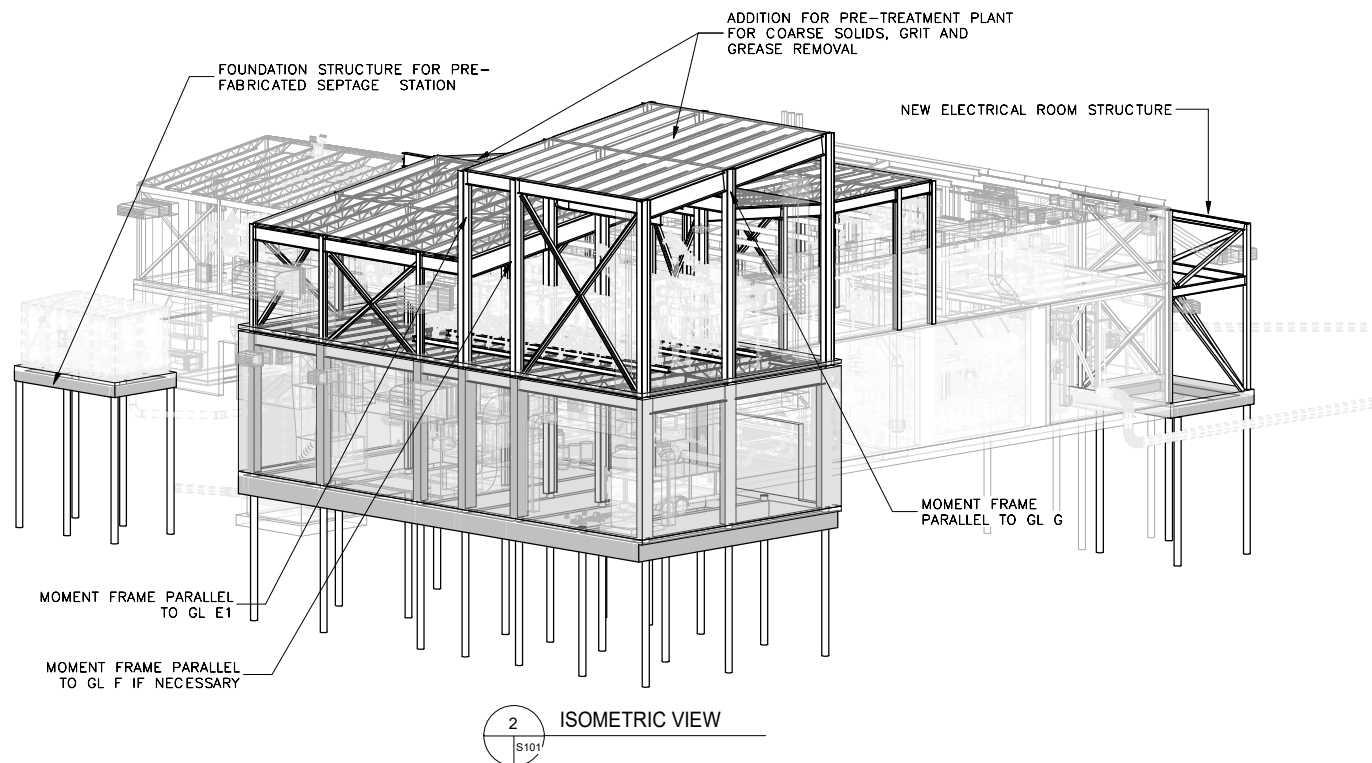
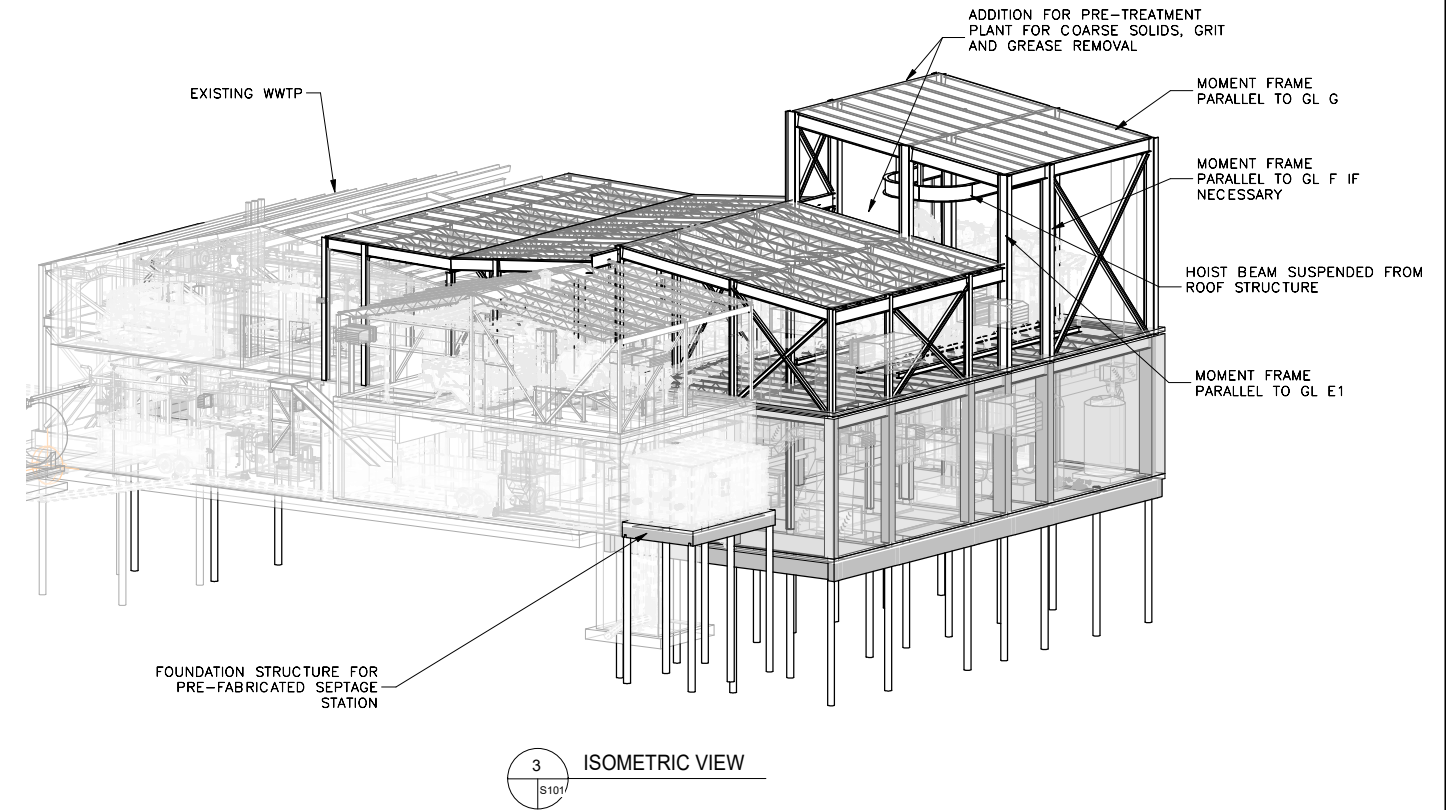
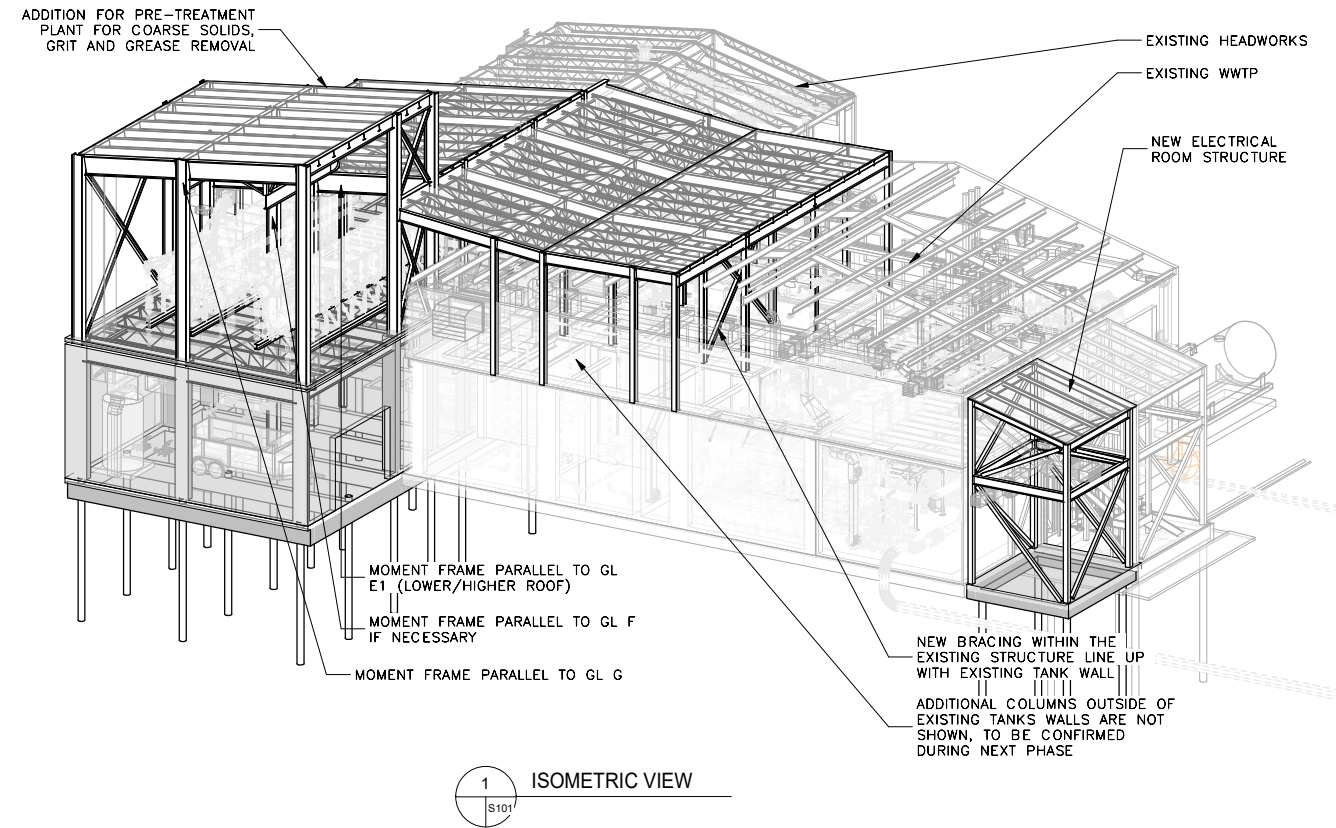
Iqaluit, Nunavut				
File Name: N/A	SM/CE	Designer	Checker	2020.10.30
	Dwn	Dsn	Chkl	YYYY.MM.DD

Title
3D REPRESENTATIONS, PERSPECTIVES
AND AXONOMETRICS

Project No.
110126069

Revision	Drawing No.
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A901



Revision	By	Appd	YYYY.MM.DD
0 ISSUED FOR PRELIMINARY DESIGN	PP	PP	2020.12.18
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IQALUIT SEWER PROTECTION

Iqaluit, Nunavut

File Name: S101 PP Dwn. PP Chkd. PP Dsgn. 2020/10/23 YY.MM.DD

Title

ISOMETRIC VIEWS

Project No.
110126069

Scale

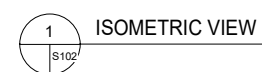
Drawing No.

Sheet

Revision

S101

1 of 2



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Iqaluit, Nunavut

File Name:	S102	PP	PP	PP	2020/10/23
		Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

LS #1 ISOMETRIC VIEWS

Project No.
110126069

Scale

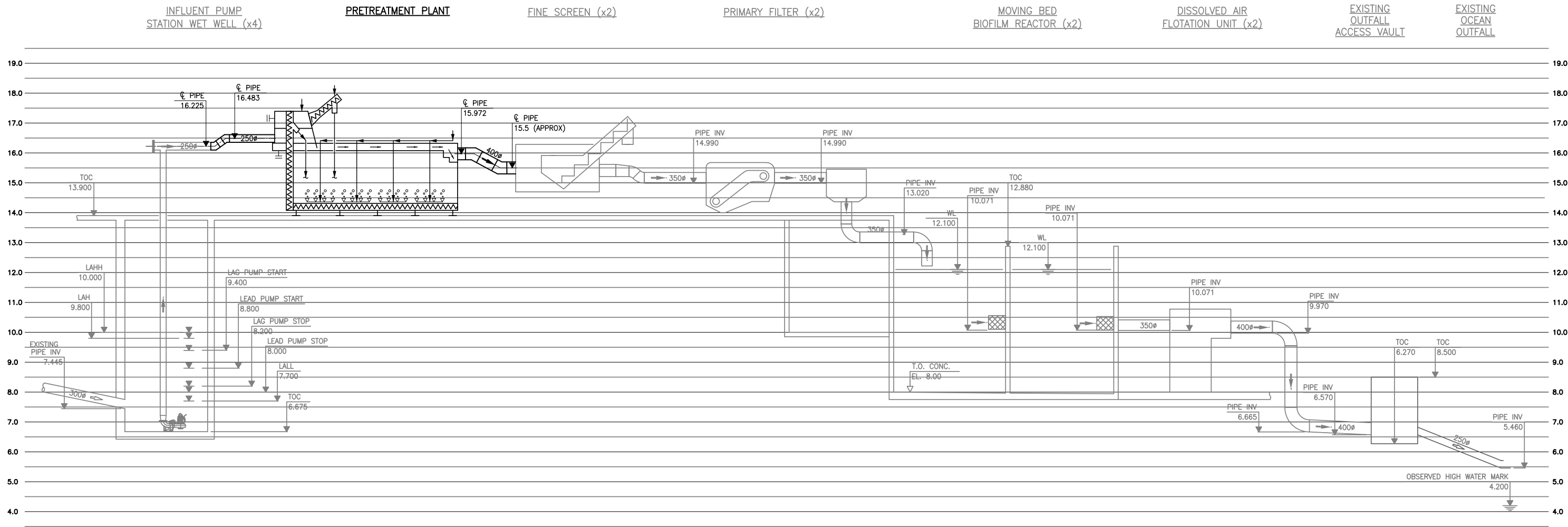
Drawing No.

Sheet

Revision

S102

2 of 2



FLOW	CURRENT	YEAR 2041
ANNUAL AVERAGE FLOW L/s	38.5	50.3
MAXIMUM MONTH FLOW L/s	46.2	60.4
PEAK HOUR FLOW L/s	115.5	151.0

VA\1107\active\110126069\drawing\process\p001.dwg
2020/12/18 7:23 AM By: Dominguez, Jy

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Client/Project

Iqaluit

ΔΕΛΤΑ

**IQUALUIT SEWER PROTECTION SYSTEM
UPGRADES**

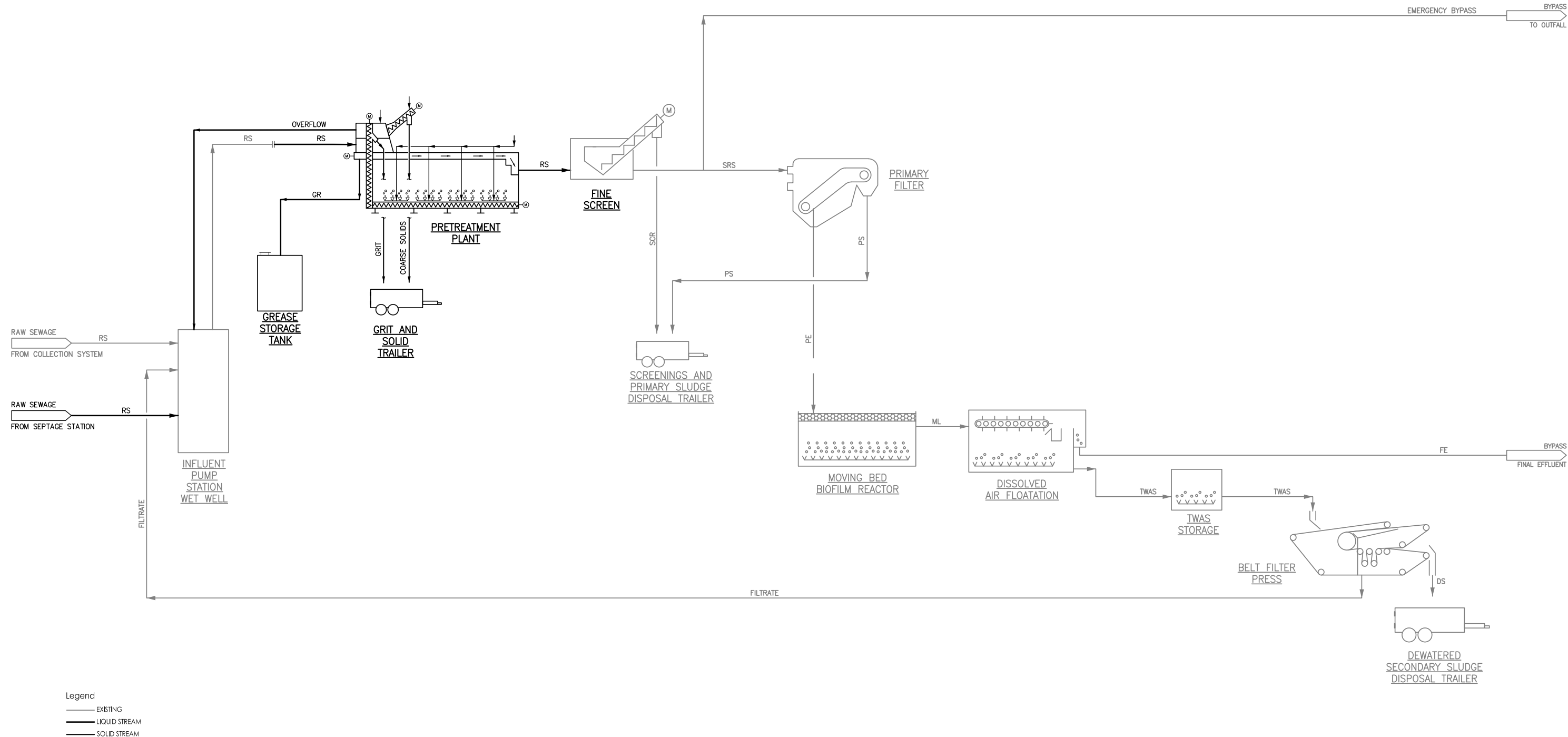
City of Iqaluit, Nunavut

File Name:	P001	JDominguez	GProsko	ARojas	20.12.18
		Dwn.	Chkd.	Dgn.	YY.MM.DD

Title

**PROCESS
HYDRAULIC PROFILE**

Project No.	Scale	
110126069	NTS	
Drawing No.	Sheet	Revision
P001	of	0



VA\1107\active\110126048\drawing\process\p002.dwg
2020/12/18 7:25 AM By: Dominguez, Jy

Revision	By	Appd.	YY.MM.DD
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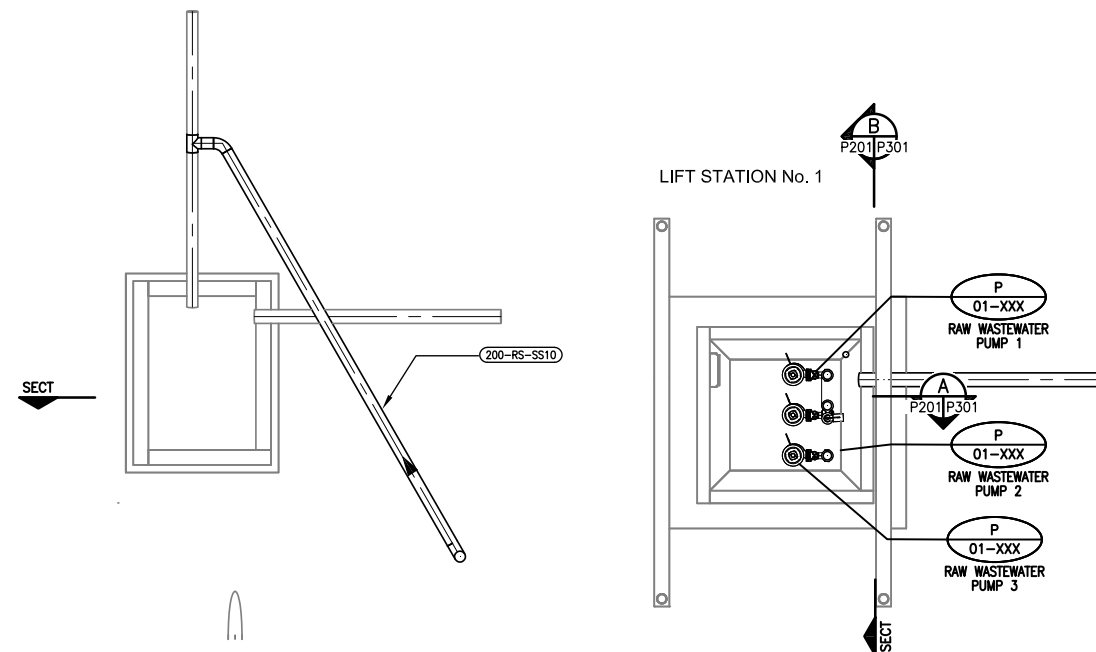
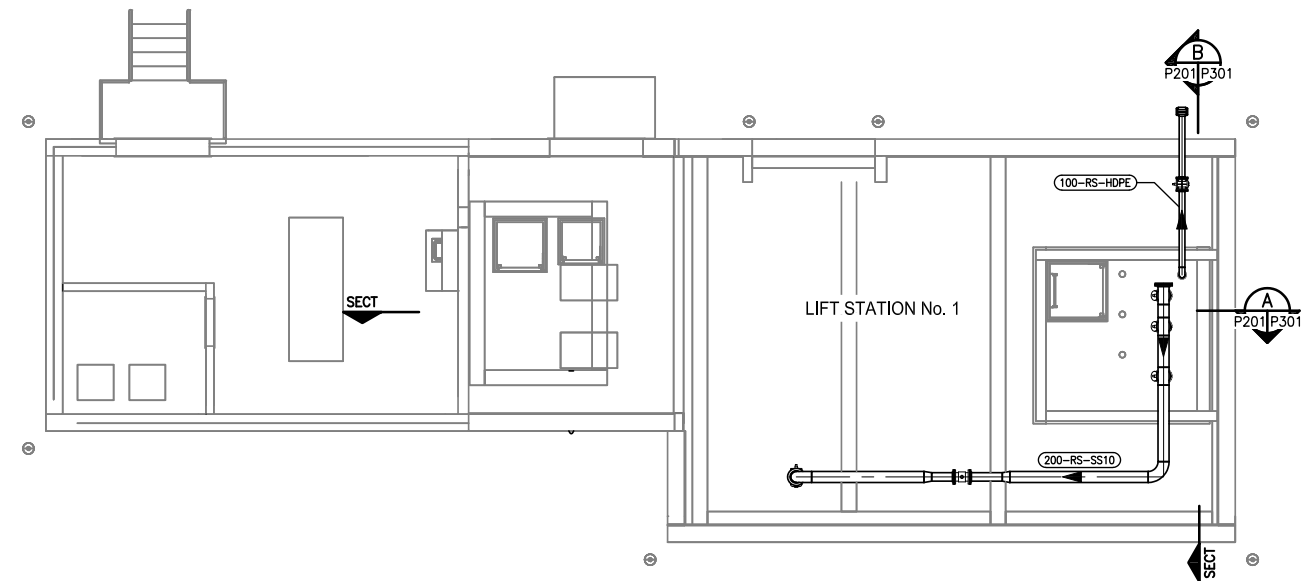


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Iqaluit	
Abasac	
IQALUIT SEWER PROTECTION SYSTEM UPGRADES	
City of Iqaluit, Nunavut	
File Name: P002	J.Dominguez G.Prozko A.Rojas 20.12.18 Dwn. Chkd. Dgn. YY.MM.DD

Title PROCESS PROCESS FLOW DIAGRAM		
Project No. 110126048	Scale NTS	
Drawing No.	Sheet	Revision
P002	of	0



2
- -

LOWER PLAN
1:75

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Issued	By	Appd.	YY.MM.DD

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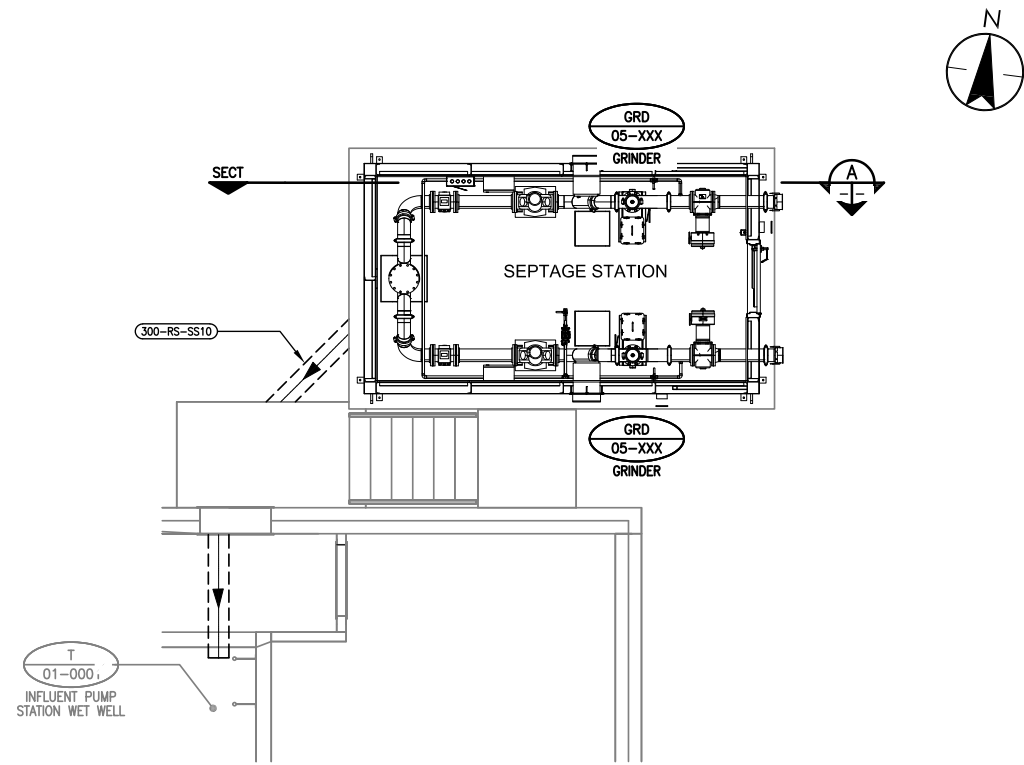
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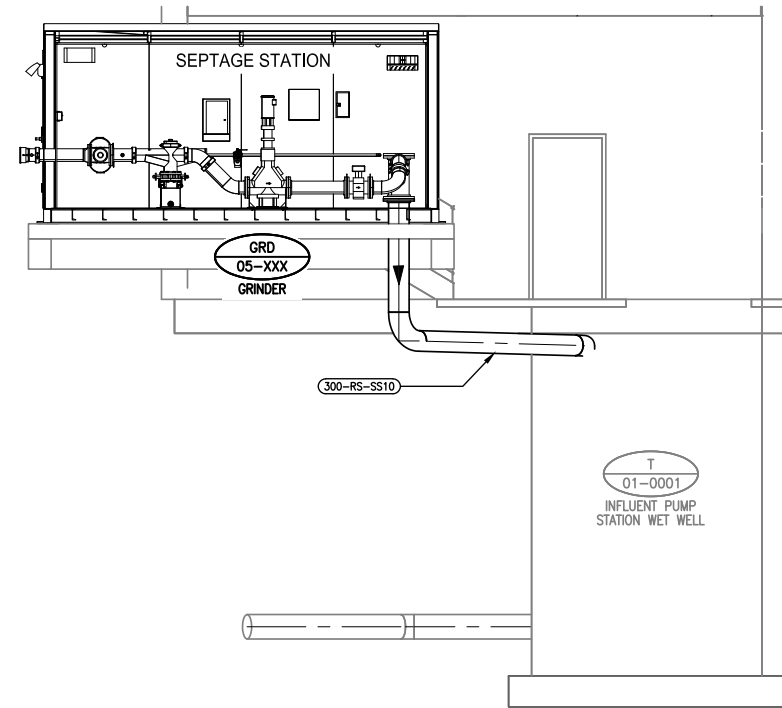
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	Dwn.	Chkd.	Dsgn.	YY.MM.DD

P201

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1 PLAN
1:50



A SECTION
1:50

Revision	By	Appd.	YY.MM.DD
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UPGRADES**

City of Iqaluit, Nunavut

File Name:	P210	JDominguez	GPozio	ARojas	20.12.18
		Dwn.	Chkd.	Dgn.	YY.MM.DD

Title

**PROCESS
SEPTAGE STATION
PLAN AND SECTION**

Project No.
110126069

Drawing No.

P210

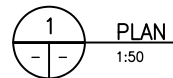
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of

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Revision



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IQALUIT SEWER PROTECTION SYSTEM UPGRADES

City of Iqaluit, Nunavut

File Name: P220	J.Dominguez	G.Proσκο	A.Rojas	20.12.18
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

PROCESS
PRETREATMENT PLANT
PLAN

Project No.
110126069

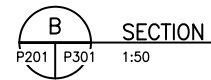
Drawing No.

P220

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Sheet Revision

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Revision	By	Appd.	YY.MM.DD
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City of Iqaluit, Nunavut

File Name: P301	J.Dominguez	G.Proσκο	A.Rojas	20.12.18
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Project No.
110126069

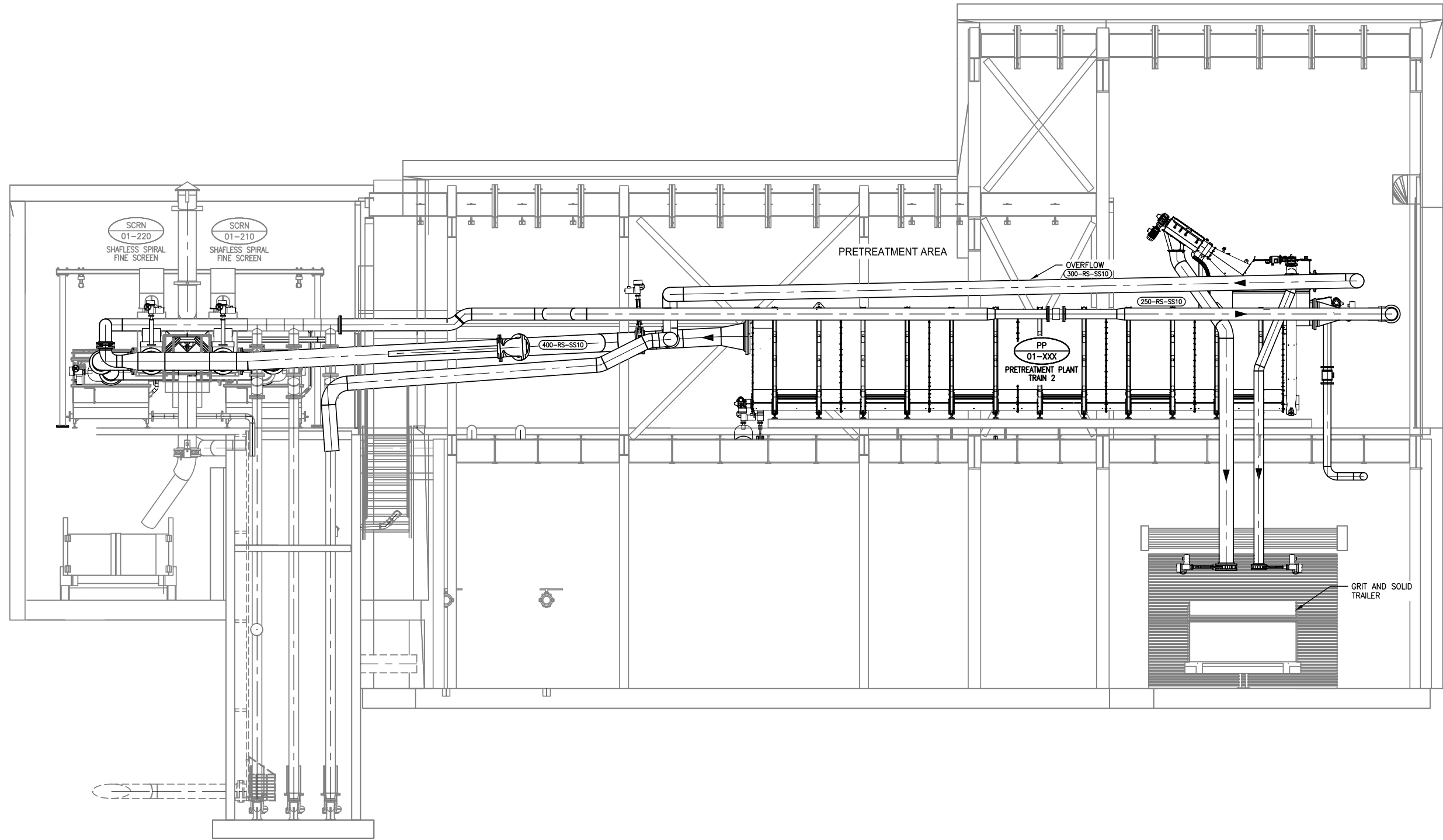
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P301

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1:75

Sheet Revision

of 0



A SECTION
P220 P320 1:50

VA1107\active\110126069\drawing\process\iso\110126069_iquait Sewer Protection\Ortho\DWG\drawings\P320.dwg
2020/12/18 9:45 AM By: Dominguez, Jy

Revision	By	Appd.	YY.MM.DD
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UPGRADES**

City of Iqaluit, Nunavut

File Name:	P320	J.Dominguez	G.Prozko	A.Rojas	20.12.18
		Dwn.	Chkd.	Dgn.	YY.MM.DD

Title

**PROCESS
PRETREATMENT PLANT
SECTION**

Project No.
110126069

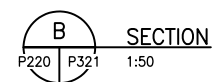
Drawing No.

P320

Scale
1:50

Sheet

Revision
0

[illegible]

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IQALUIT SEWER PROTECTION SYSTEM UPGRADES

City of Iqaluit, Nunavut

File Name: P321	J.Dominguez	G.Prosko	A.Rojas	20.12.18
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

PROCESS PRETREATMENT PLANT SECTION

Project No.
110126069

Drawing No.












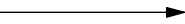






















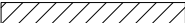








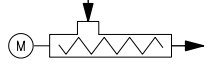

































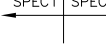
















P321

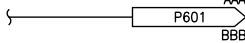
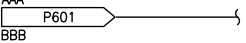
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



Sheet Revision







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EQUIPMENT			EQUIPMENT			VALVES			PROCESS LINES		
	FILTER OR FILTER-SILENCER INLET AIR			FLAP GATE			THREE WAY VALVE SOLENOID VALVE			NEW PROCESS - PRIMARY	
	HOSE REEL			SCREEN, ROTARY OVERFLOW			GATE VALVE (NORMALLY OPEN)			NEW PROCESS - SECONDARY	
	VARIABLE FREQUENCY DRIVE			SILENCER			GATE VALVE (NORMALLY CLOSED)			NEW PROCESS - TERTIARY	
	STOP LOG			POSITIVE DISPLACEMENT BLOWER			PLUG VALVE (NORMALLY OPEN)			EXISTING PROCESS	
	DIFFUSER HEADER			EXPANSION JOINT (BELLOWS)			PLUG VALVE (NORMALLY CLOSED)			FUTURE PROCESS	
	CLEANING BRUSH		PIPE LINE DEVICES				BALL VALVE (NORMALLY OPEN)			FUTURE EQUIPMENT, ETC	
	MIXER HORIZONTAL SURFACE			INJECTOR			BALL VALVE (NORMALLY CLOSED)			VENDOR PACKAGE BOUNDARY	
	MIXER, INLINE STATIC			FLAME ARRESTER			BUTTERFLY VALVE			BOUNDARY MATCHLINE	
	MOTOR			FLAME ARRESTER WITH THERMAL SHUTOFF VALVE			CIRCULAR BALANCING DAMPER			EXISTING PIPING AND EQUIPMENT TO BE REMOVED	
	LEVEL CONTROL GATE			FLAME CHECK			GLOBE VALVE			ENCLOSURE BOUNDARY	
	COMPRESSOR, PISTON			TRAP			DIAPHRAGM VALVE			INSULATION	
	PROGRESSIVE CAVITY PUMP			SEDIMENT TRAP			ANGLE VALVE			INSULATION WITH STEAM OR ELECTRIC HEAT TRACE	
	PUMP, ROTARY LOBE			PRESSURE REDUCING ASSEMBLY			FLOAT VALVE			PIPING UNDER STRUCTURE	
	PUMP, SUBMERSIBLE			GAS DRIP TRAP			PINCH VALVE				
	PUMP, VERTICAL			LIQUID SEPARATOR			Y-STRAINER				
	PUMP, LINE SHAFT			BASKET STRAINER			PRESSURE CONTROL VALVE (EXTERNAL SENSING)				
	SUBMERSIBLE PROPELLER PUMP			RUPTURE DISK (VACUUM RELIEF)			PRESSURE CONTROL VALVE (INTERNAL SENSING)				
	SLUICE GATE (NORMALLY CLOSED)			AIR VENT			BACK PRESSURE CONTROL VALVE				
	SLUICE GATE (NORMALLY OPEN)			STEAM VENT			DUCKBILL VALVE				
	WEIR GATE (NORMALLY CLOSED)			QUICK CONNECTOR			DRESSER COUPLING (FLEXIBLE CONNECTION)				
	WEIR GATE (NORMALLY OPEN)			CAP			FLUSHING/PURGE CONNECTION				
	SLIDE GATE (NORMALLY CLOSED)			BLIND FLANGE			SPEC1 / SPEC2 / SPEC CHANGE				
	SLIDE GATE (NORMALLY OPEN)			REDUCER							
	ROCK TRAP			FLEXIBLE CONNECTION							
	SCREW PRESS			AIR FILTER							
	POLYMER DOSING SYSTEM			HEATING COIL							
	CONVEYOR			COOLING COIL							
	PRIMARY FILTER			HARD PIPE UTILITY CONNECTION							
	DAF			WATER SOFTENER							
	BELT FILTER PRESS										
	SHAFTLESS SPIRAL FINE SCREEN										

PROCESS AND SIGNAL CROSS REFERENCE SYSTEM		
1. ON DRAWING PXX XX1 CONTINUATION IS SHOWN AS: 		
2. ON DRAWING PXX XX2 THIS CONTINUATION IS SHOWN AS: 		

VALVE ACTUATORS			
	MOTOR ACTUATOR		SOLENOID
	PNEUMATIC ACTUATOR		DIAPHRAGM (PRESSURE BALANCE)
	DIAPHRAGM (SPRING OPPOSED)		

MISCELLANEOUS DEVICES			
	UTILITY STATION (NUMBER, IF ANY, DESIGNATES TYPE)		SAMPLER
	FIRE HYDRANT & VALVE		CONTROL UNIT
	VACUUM BREAKER (BFP TYPE)		PURGE OR FLUSHING CONNECTION

Revision			By			Appd.			YY.MM.DD		

Revision	By	Appd.	YY.MM.DD
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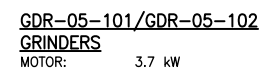
**IQALUIT SEWER PROTECTION SYSTEM
UPGRADES**
City of Iqaluit, Nunavut

File Name: P604	JDominguez	GProsko	ARojas	20.12.18
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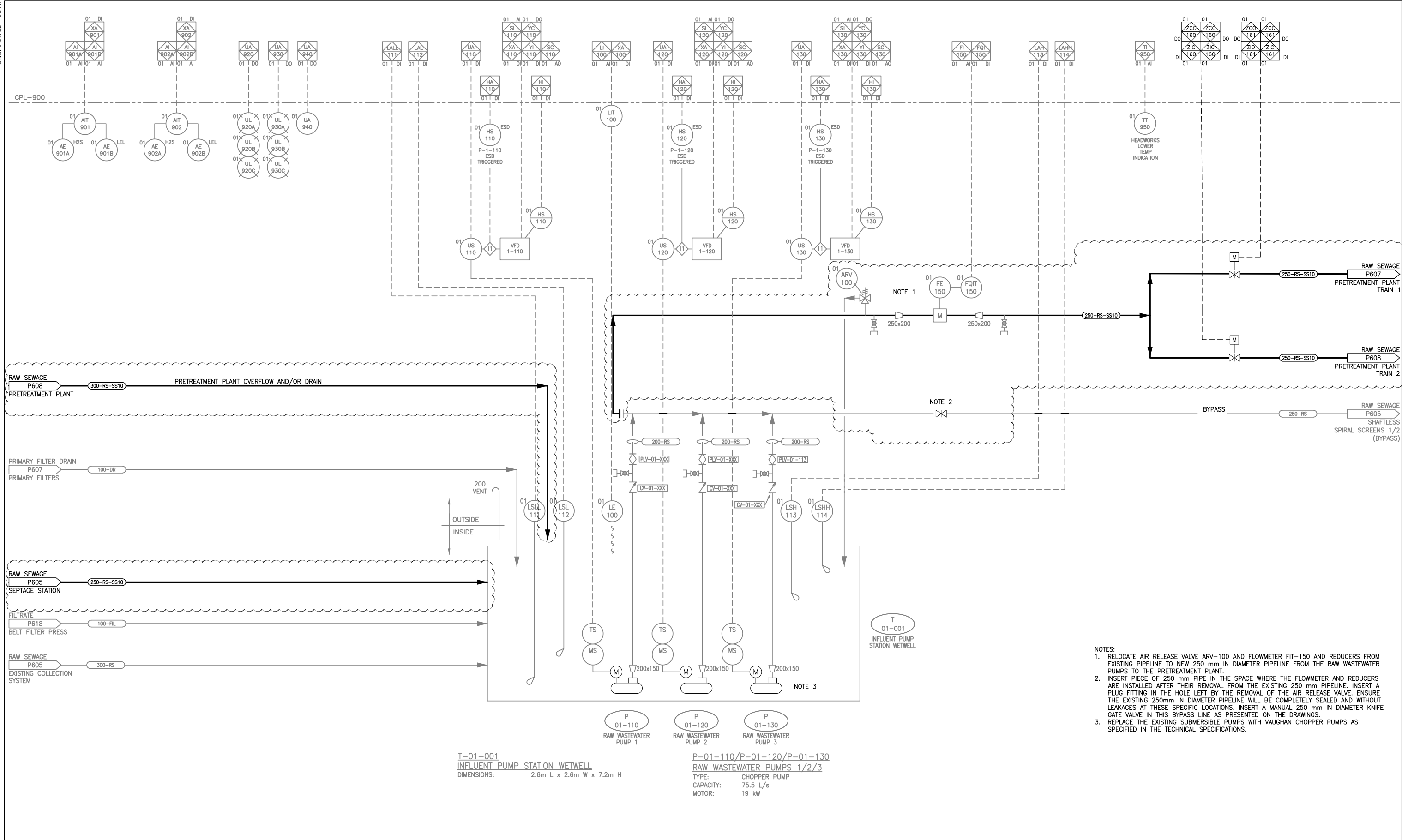
**IQALUIT SEWER PROTECTION SYSTEM
UPGRADES**
City of Iqaluit, Nunavut

File Name: P605	J.Dominguez	G.Proσκο	A.Rojas	20.12.18
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No.	Sheet	Revision
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- NOTES:
1. RELOCATE AIR RELEASE VALVE ARV-100 AND FLOWMETER FIT-150 AND REDUCERS FROM EXISTING PIPELINE TO NEW 250 mm IN DIAMETER PIPELINE FROM THE RAW WASTEWATER PUMPS TO THE PRETREATMENT PLANT.
 2. INSERT PIECE OF 250 mm PIPE IN THE SPACE WHERE THE FLOWMETER AND REDUCERS ARE INSTALLED AFTER THEIR REMOVAL FROM THE EXISTING 250 mm PIPELINE. INSERT A PLUG FITTING IN THE HOLE LEFT BY THE REMOVAL OF THE AIR RELEASE VALVE. ENSURE THE EXISTING 250mm IN DIAMETER PIPELINE WILL BE COMPLETELY SEALED AND WITHOUT LEAKAGES AT THESE SPECIFIC LOCATIONS. INSERT A MANUAL 250 mm IN DIAMETER KNIFE GATE VALVE IN THIS BYPASS LINE AS PRESENTED ON THE DRAWINGS.
 3. REPLACE THE EXISTING SUBMERSIBLE PUMPS WITH VAUGHAN CHOPPER PUMPS AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.

T-01-001
INFLUENT PUMP STATION WETWELL
DIMENSIONS: 2.6m L x 2.6m W x 7.2m H

P-01-110/P-01-120/P-01-130
RAW WASTEWATER PUMPS 1/2/3
TYPE: CHOPPER PUMP
CAPACITY: 75.5 L/s
MOTOR: 19 kW

Revision	By	Appd.	YY.MM.DD
0 ISSUED FOR PRELIMINARY DESIGN	JD	AR	20.12.18
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IQUALUIT SEWER PROTECTION SYSTEM
UPGRADES

City of Iqaluit, Nunavut

File Name: P606	J.Dominguez	G.Prozko	A.Rojas	20.12.18
	Dwn.	Chkd.	Dgn.	YY.MM.DD

Title

PROCESS
PIPING AND INSTRUMENTATION DIAGRAM
WET WELL

Project No.
110126069

Scale
NTS

Drawing No.

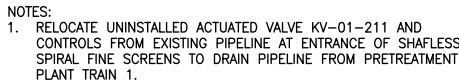
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Revision

P606

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City of Iqaluit, Nunavut

File Name: P607

JDominguez	GProsko	ARojas	20.12.18
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

PROCESS

PIPING AND INSTRUMENTATION DIAGRAM

PRETREATMENT PLANT TRAIN 1

Project No.
110126069

Scale NTS

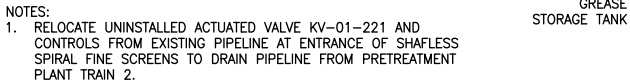
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Revision

P607

of _____ 0



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<u>JDominguez</u>	<u>GProsko</u>	<u>ARojas</u>	<u>20.12.18</u>
Dwn.	Chkd.	Dsgn.	YY.MM.DD

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City of Iqaluit, Nunavut

File Name: P609

JDominguez	GProsko	ARojas	20.12.18
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

PROCESS
PIPING AND INSTRUMENTATION DIAGRAM
SCREENING

Project No.
110126069

Scale NTS

Drawing No.

Sheet

Revision

P609

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File Name: M100

B.Zrum	R.Moulton	B.Zrum	20.12.16
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
WWTP ADDITIONS - MECHANICAL PLANS

Project No.	Scale
110126069	As indicated

Drawing No.	Sheet	Revision
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M100 1 of 2



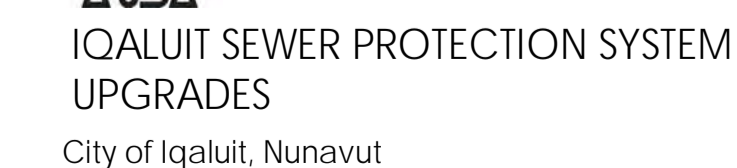
Consultant

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B.Zrum	R.Moulton	B.Zrum	20.12.16
Dwn.	Chkd.	Dsn.	YY.MM.DD

Drawing No.	Sheet	Revision
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M101 2 of 2



1
E010

WWTP NEW ELECTRICAL SITE PLAN

1 : 200

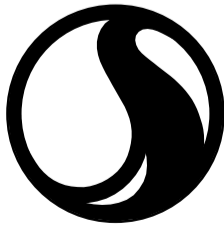
Revision	By	Appd	YYYY.MM.DD
0 ISSUED FOR PRELIMINARY DESIGN	KG	JY	2020.12.18
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IQALUIT SEWER PROTECTION

Iqaluit, Nunavut

File Name: E010	KG	KSS	JY	12/16/20
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

NEW ELECTRICAL SITE PLAN

Project No.
110126069

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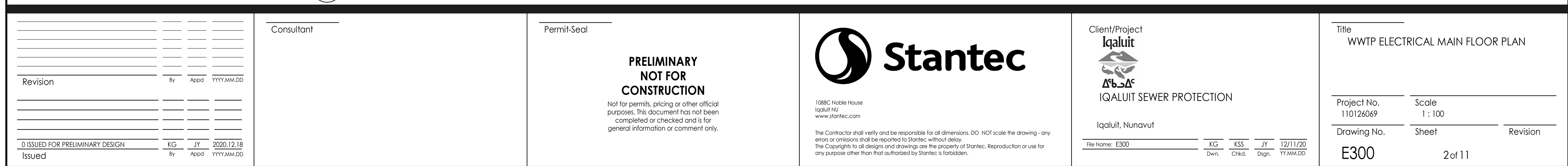
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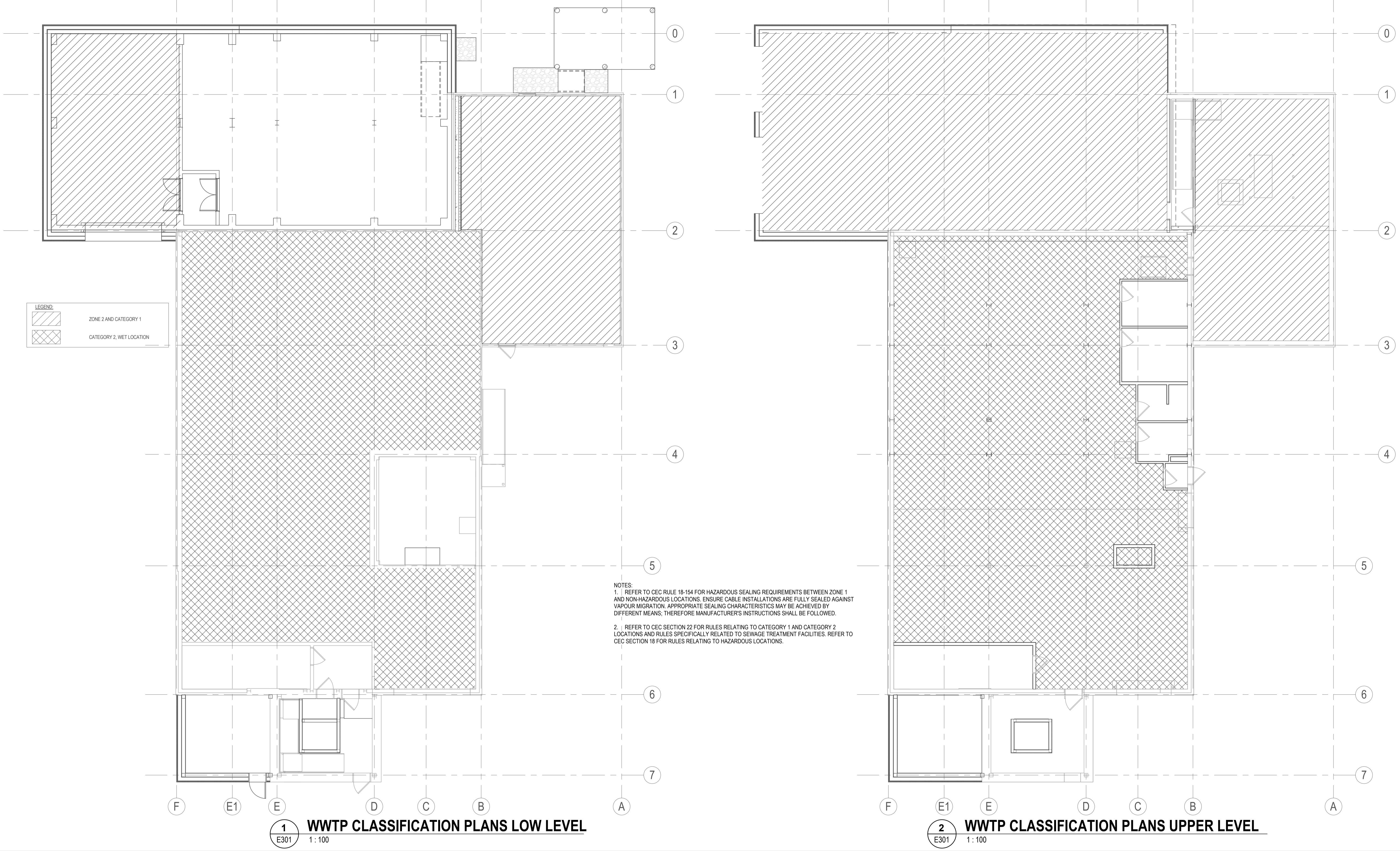
E010

Sheet

1 of 11



Revision





1
E301
WWTP CLASSIFICATION PLANS LOW LEVEL
1 : 100

2
E301
WWTP CLASSIFICATION PLANS UPPER LEVEL
1 : 100

<table><tr><td>Revision</td><td>By</td><td>Appd</td><td>YYYY.MM.DD</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td>0 ISSUED FOR PRELIMINARY DESIGN</td><td>KG</td><td>JY</td><td>2020.12.18</td></tr><tr><td>Issued</td><td>By</td><td>Appd</td><td>YYYY.MM.DD</td></tr></table>	Revision	By	Appd	YYYY.MM.DD																					0 ISSUED FOR PRELIMINARY DESIGN	KG	JY	2020.12.18	Issued	By	Appd	YYYY.MM.DD	<p>Consultant</p>	<p>Permit-Seal</p> <p>PRELIMINARY NOT FOR CONSTRUCTION</p> <p>Not for permits, pricing or other official purposes. This document has not been completed or checked and is for general information or comment only.</p>	<div><p>1088C Noble House Iqaluit NU www.stantec.com</p><p>The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.</p></div> <div><p>Client/Project Iqaluit  IQALUIT SEWER PROTECTION</p><p>Iqaluit, Nunavut</p><table><tr><td>File Name: E301</td><td>KG</td><td>KSS</td><td>JY</td><td>12/11/20</td></tr><tr><td></td><td>Dwn.</td><td>Chkd.</td><td>Dsgn.</td><td>YY.MM.DD</td></tr></table></div>	File Name: E301	KG	KSS	JY	12/11/20		Dwn.	Chkd.	Dsgn.	YY.MM.DD	<p>Title WWTP CLASSIFICATION PLANS</p> <table><tr><td>Project No. 110126069</td><td>Scale As indicated</td></tr><tr><td>Drawing No. E301</td><td>Sheet 3 of 11</td></tr><tr><td colspan="2">Revision</td></tr></table>	Project No. 110126069	Scale As indicated	Drawing No. E301	Sheet 3 of 11	Revision	
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1. EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED TO MAKE ROOM FOR NEW VFD'S.

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Iqaluit

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File Name: E303

KG
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12/11/20
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Title
LIFT STATION #1 ELECTRICAL PLAN

Project No.

Scale
1 : 50

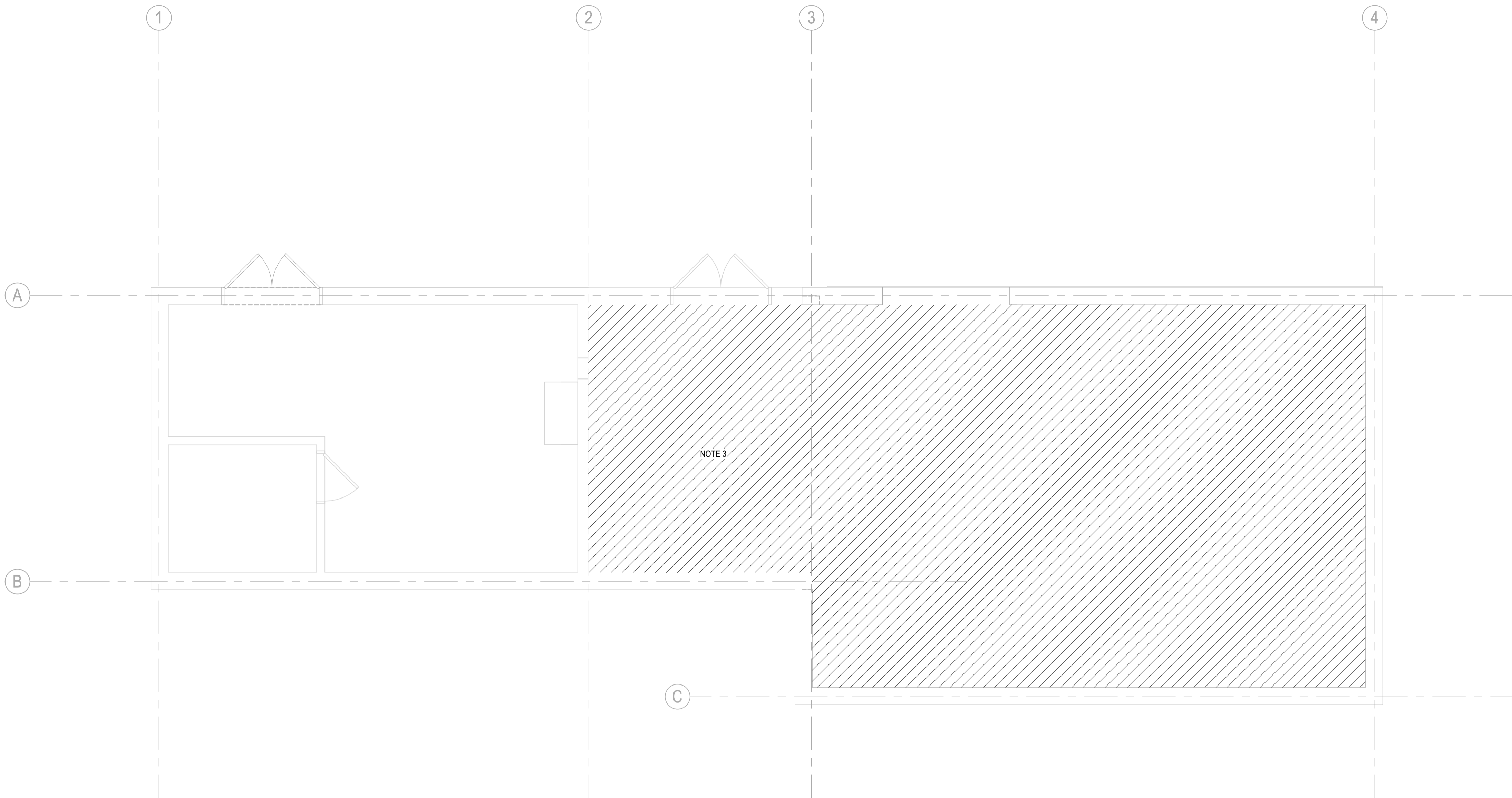
Drawing No.

Sheet

Revision

E303

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1
E304

LIFT STATION #1 CLASSIFICATION PLAN

1 : 50

NOTES:

1. REFER TO CEC RULE 18-154 FOR HAZARDOUS SEALING REQUIREMENTS BETWEEN ZONE 1 AND NON-HAZARDOUS LOCATIONS. ENSURE CABLE INSTALLATIONS ARE FULLY SEALED AGAINST VAPOUR MIGRATION. APPROPRIATE SEALING CHARACTERISTICS MAY BE ACHIEVED BY DIFFERENT MEANS; THEREFORE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.
2. REFER TO CEC SECTION 22 FOR RULES RELATING TO CATEGORY 1 AND CATEGORY 2 LOCATIONS AND RULES SPECIFICALLY RELATED TO SEWAGE TREATMENT FACILITIES. REFER TO CEC SECTION 18 FOR RULES RELATING TO HAZARDOUS LOCATIONS.
3. ANY EXISTING EQUIPMENT IN ORIGINAL WET WELL ROOM THAT IS NOT RATED FOR ZONE 1 TO BE REPLACED WITH EQUIPMENT RATED FOR ZONE 1.

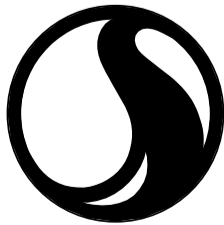
Revision	By	Appd	YYYY.MM.DD
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KG
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12/11/20
YY.MM.DD

Title

LIFT STATION #1 CLASSIFICATION PLAN LIFT STATION

Project No.

Scale
As indicated

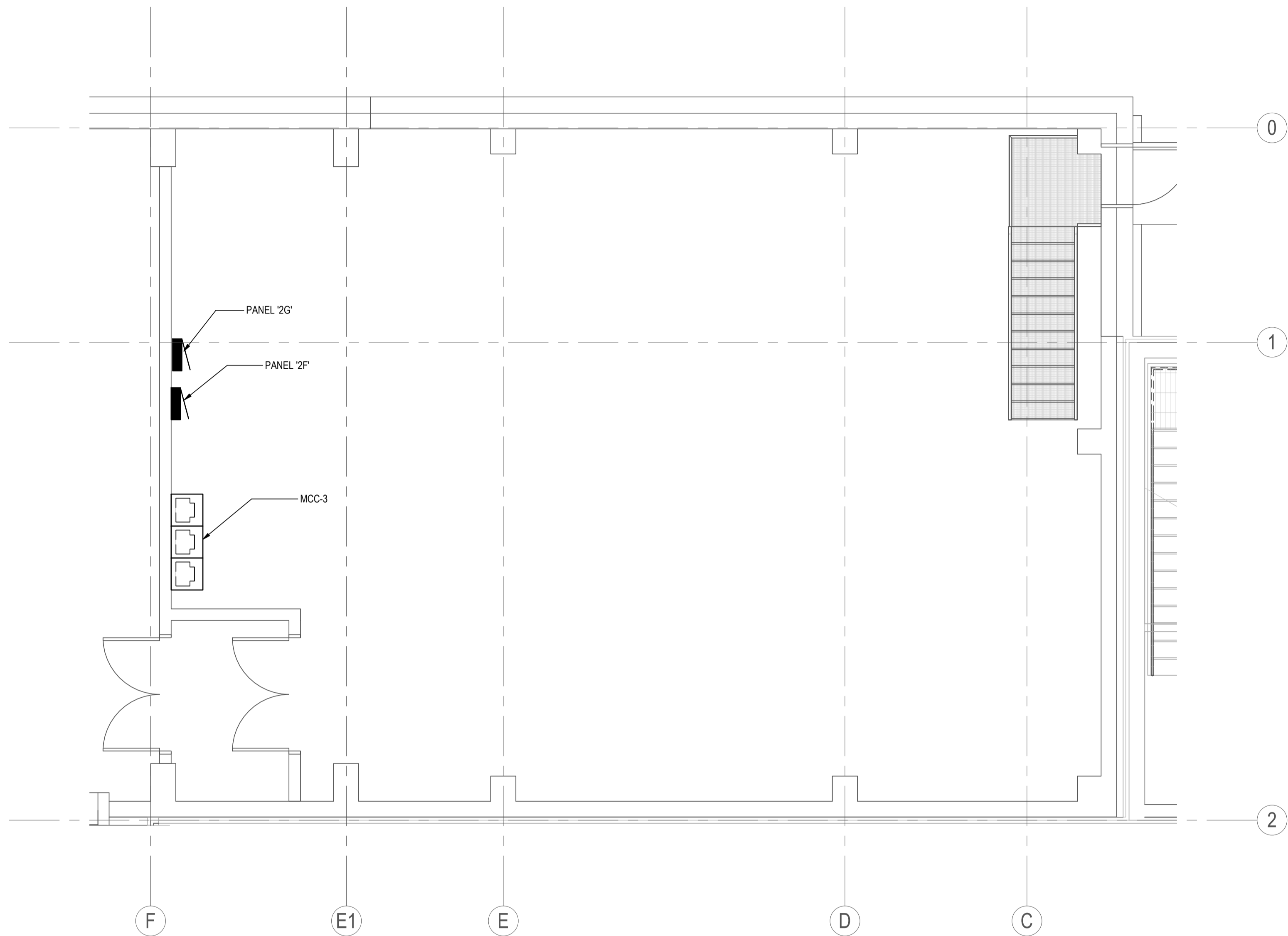
Drawing No.

E304

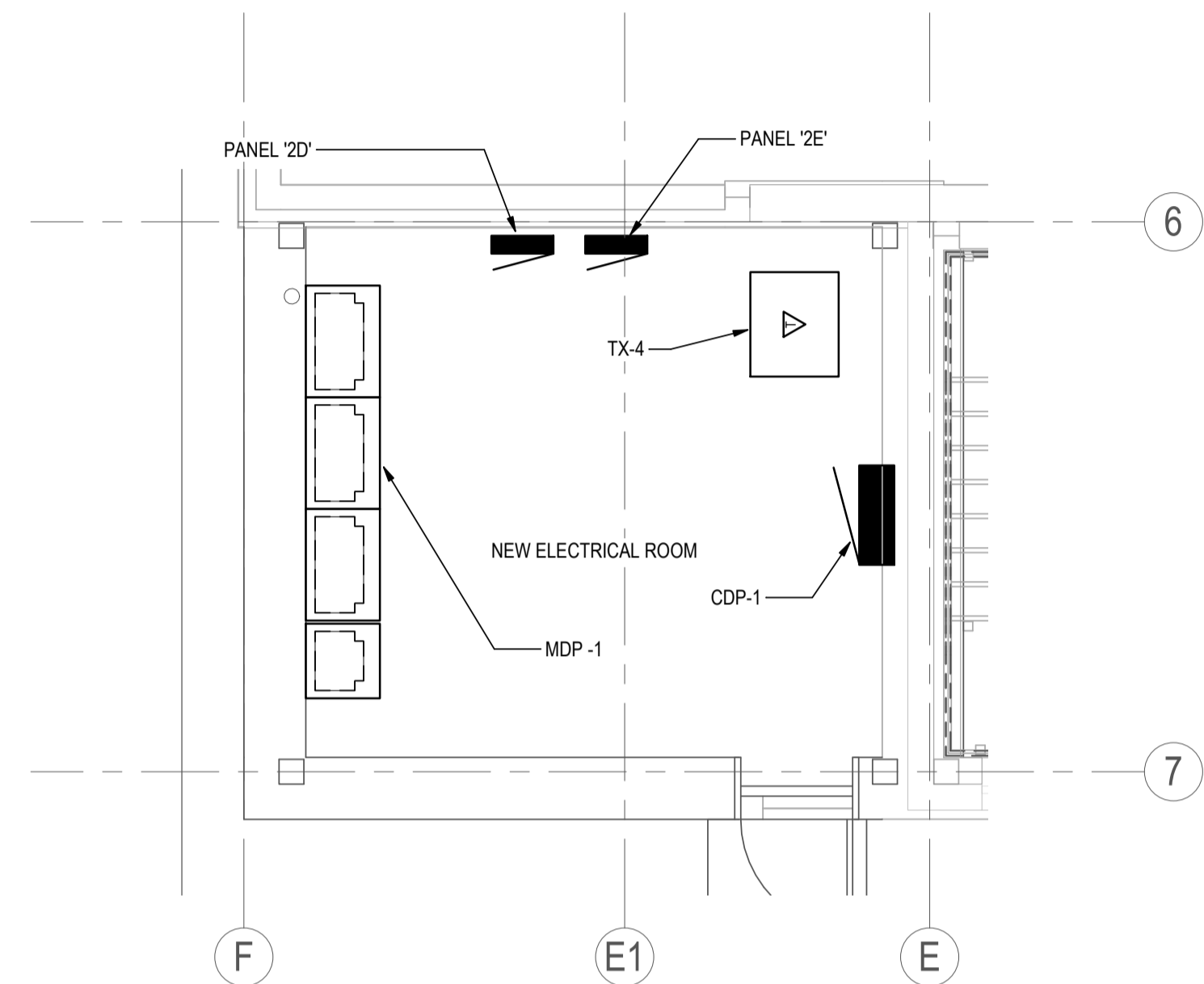
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Revision



1 WWTP NEW MECHANICAL ROOM ADDITION
E500 1 : 50



2 WWTP NEW ELECTRICAL ROOM ADDITION
E500 1 : 50

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Iqaluit



IQALUIT SEWER PROTECTION

Iqaluit, Nunavut

File Name: E500	KG	KSS	JY	12/11/20
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

**WWTP ADDITION - ELECTRICAL ENLARGED
FLOOR PLANS**

Project No.
110126069

Scale
1 : 50

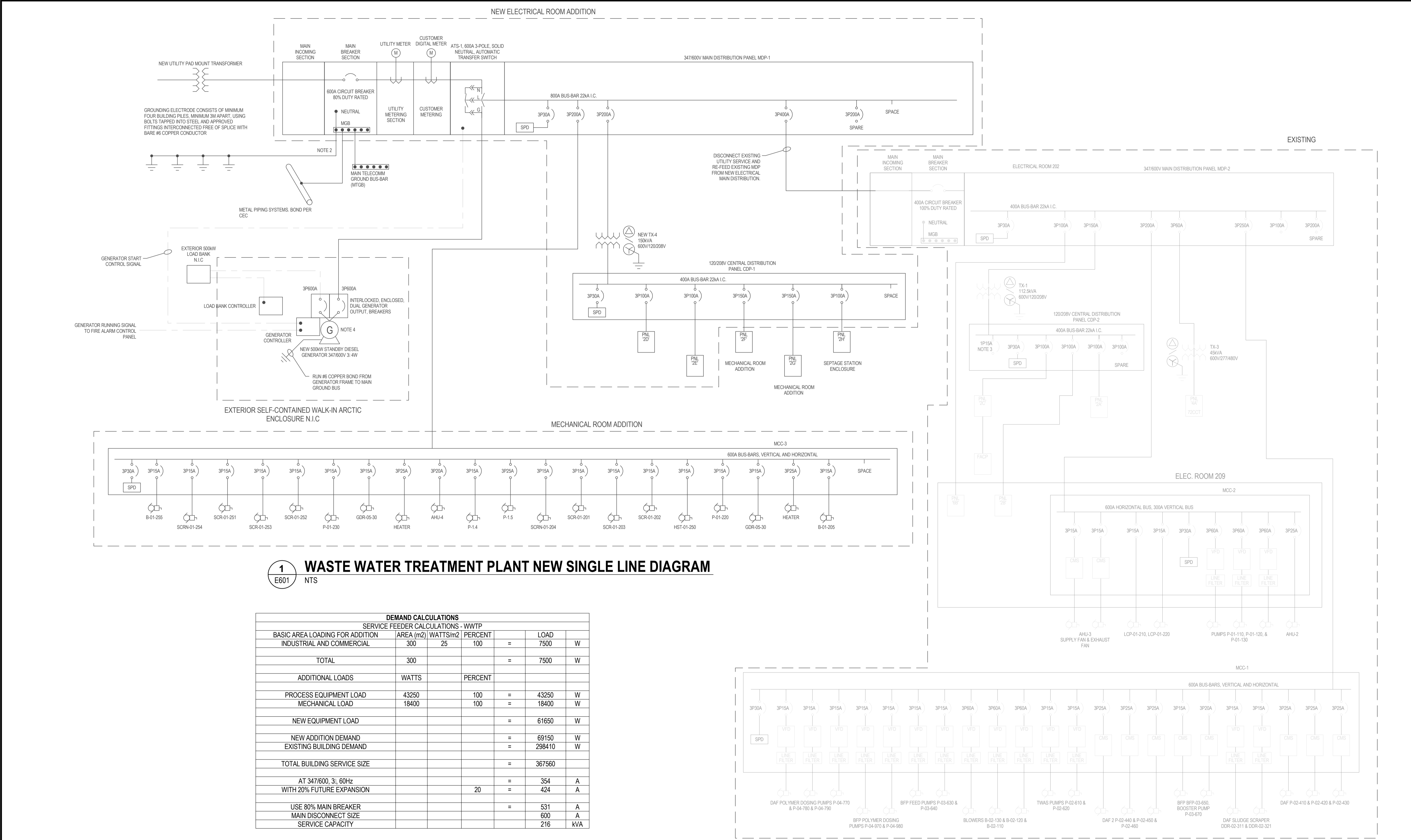
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Revision

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1 WASTE WATER TREATMENT PLANT NEW SINGLE LINE DIAGRAM
E601 NTS

DEMAND CALCULATIONS						
SERVICE FEEDER CALCULATIONS - WWTP						
BASIC AREA LOADING FOR ADDITION	AREA (m2)	WATTS/m2	PERCENT		LOAD	
INDUSTRIAL AND COMMERCIAL	300	25	100	=	7500	W
TOTAL	300			=	7500	W
ADDITIONAL LOADS	WATTS		PERCENT			
PROCESS EQUIPMENT LOAD	43250		100	=	43250	W
MECHANICAL LOAD	18400		100	=	18400	W
NEW EQUIPMENT LOAD				=	61650	W
NEW ADDITION DEMAND				=	69150	W
EXISTING BUILDING DEMAND				=	298410	W
TOTAL BUILDING SERVICE SIZE				=	367560	
AT 347/600, 3, 60Hz				=	354	A
WITH 20% FUTURE EXPANSION			20	=	424	A
USE 80% MAIN BREAKER				=	531	A
MAIN DISCONNECT SIZE					600	A
SERVICE CAPACITY					216	kVA

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IQUALUIT SEWER PROTECTION

Iqaluit, Nunavut

File Name: E601

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12/11/20

YY.MM.DD

Title

WASTE WATER TREATMENT PLANT NEW SINGLE LINE DIAGRAM

Project No.

110126069

Drawing No.

E601

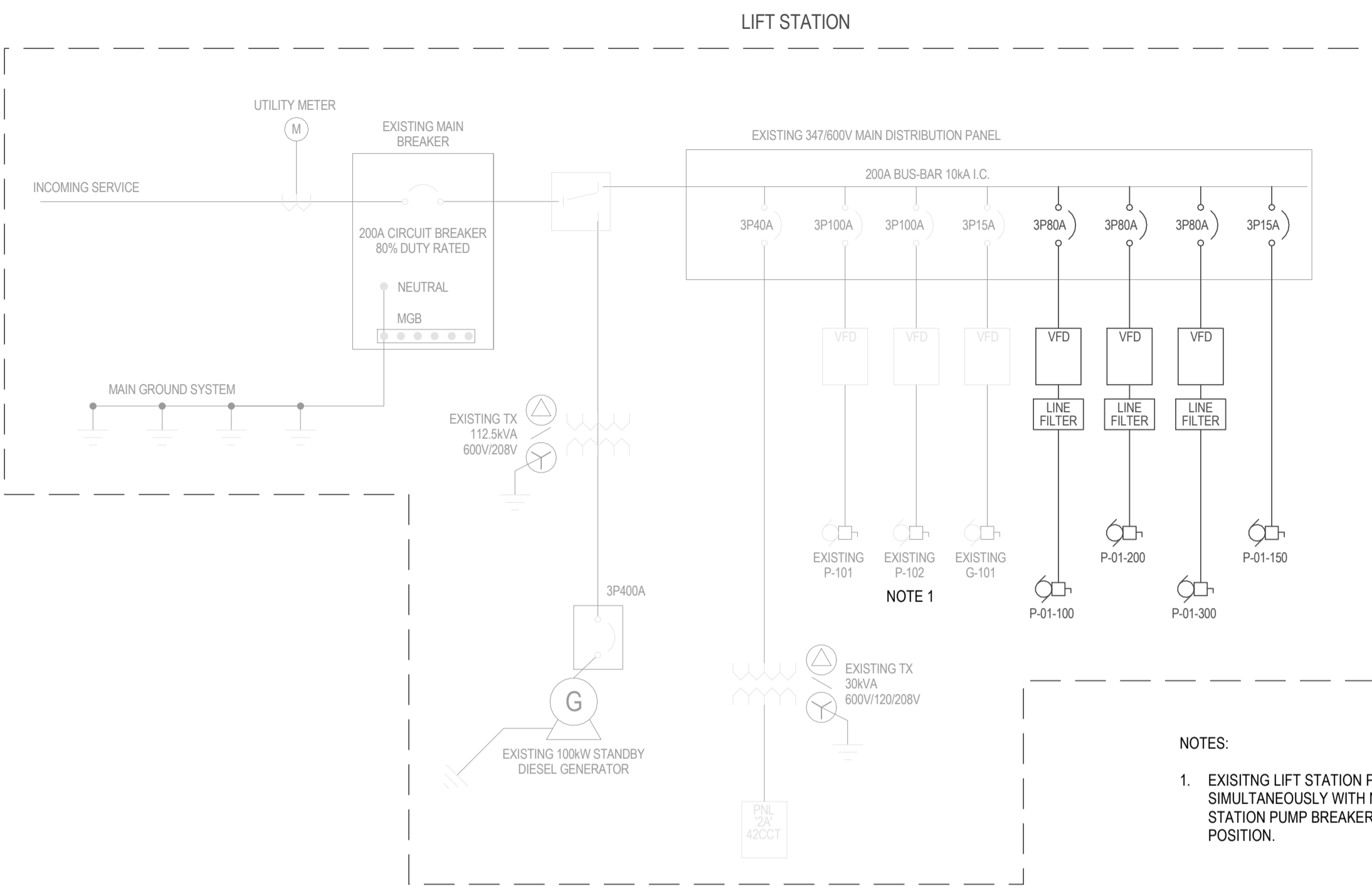
Scale

NTS

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Revision



DEMAND CALCULATIONS						
SERVICE FEEDER CALCULATIONS - IQALUIT LIFT STATION						
	AREA (m2)	WATTS/m2	PERCENT		LOAD	
INDUSTRIAL AND COMMERCIAL	150	25	100	=	3750	W
TOTAL	150			=	3750	W
ADDITIONAL LOADS	WATTS		PERCENT			
PROCESS EQUIPMENT LOAD	61500		100	=	61500	W
MECHANICAL LOAD	6390		100	=	6390	W
TOTAL ADDITIONAL LOAD				=	67890	W
TOTAL BUILDING SERVICE SIZE				=	71640	W
AT 347/600, 3%, 60Hz				=	69	A
WITH 10% FUTURE EXPANSION			10	=	76	A
USE 80% MAIN BREAKER				=	95	A
MAIN DISCONNECT SIZE					100	A
SERVICE CAPACITY					36	kVA

1 LIFT STATION #1 NEW SINGLE LINE DIAGRAM
E602 NTS

Revision	By	Appd	YYYY.MM.DD
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Client/Project
Iqaluit
Iqaluit Sewer Protection

File Name: E602	KG	KSS	JY	12/11/20
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
LIFT STATION #1 SINGLE LINE DIAGRAM

Project No. 110126069	Scale NTS
Drawing No.	Sheet Revision

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BUILDING MECHANICAL MOTOR, CONTROL AND EQUIPMENT SCHEDULE													
EQUIPMENT	DESCRIPTION	LOCATION	HP	KW	VOLTS	PH	FLA	FEEDER	BREAKER	SOURCE	CONTROL	NOTES	
B-1	RELOCATED HW BOILER	ADDITIONAL MECH ROOM	0.75	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD		
B-1	RELOCATED HW BOILER CONTROLS	ADDITIONAL MECH ROOM	-	0.016	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	BREAKER		
B-2	RELOCATED HW BOILER	ADDITIONAL MECH ROOM	0.75	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD		
B-2	RELOCATED HW BOILER CONTROLS	ADDITIONAL MECH ROOM	-	0.016	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	BREAKER		
B-3	NEW HW BOILER	ADDITIONAL MECH ROOM	0.75	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD		
B-3	NEW HW BOILER CONTROLS	ADDITIONAL MECH ROOM	-	0.016	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	BREAKER		
P-1.1	RELOCATED PRIMARY HW PUMP (B-1)	ADDITIONAL MECH ROOM	1	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	MMP/R/HOA		
P-1.2	RELOCATED PRIMARY HW PUMP (B-2)	ADDITIONAL MECH ROOM	1	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	MMP/R/HOA		
P-1.3	PRIMARY HW PUMP (B-3)	ADDITIONAL MECH ROOM	1	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	MMP/R/HOA		
P-1.4	SECONDARY HW PUMP	ADDITIONAL MECH ROOM	5	-	600	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	VFD BY MECH		
P-1.5	SECONDARY HW PUMP	ADDITIONAL MECH ROOM	5	-	600	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	VFD BY MECH		
P-1.7	AHU-2 PHC PUMP	ADDITIONAL MECH ROOM	0.75	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	CMS/R/HOA	CORD CONNECTED EQUIPMENT	
P-1.8	RELOCATED GLYCOL FILL TANK	ADDITIONAL MECH ROOM	-	-	120	1	0.7	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	GFI RECEPTACLE		
CTL-P-2.7/2.8	DUPLEX SUMP PUMP CONTROL PANEL FOR P-2.7/2.8	ADDITIONAL MECH ROOM	-	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	BREAKER		
P-2.7	SUMP PUMP	ADDITIONAL MECH ROOM	0.6	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	-	-	CTL-P-2.7/2.8	NOTE 6	
P-2.8	SUMP PUMP	ADDITIONAL MECH ROOM	0.6	-	208	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	-	-	CTL-P-2.7/2.8	NOTE 6	
CTL-P-2.9/2.10	DUPLEX SUMP PUMP CONTROL PANEL FOR P-2.9/2.10	SOLIDS TRAILER ROOM	-	-	208	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	BREAKER		
P-2.9	SUMP PUMP	SOLIDS TRAILER ROOM	0.5	-	208	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	2P20	-	CTL-P-2.9/2.10	NOTE 6	
P-2.10	SUMP PUMP	SOLIDS TRAILER ROOM	0.5	-	208	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	2P20	-	CTL-P-2.9/2.10	NOTE 6	
AHU-4	SUPPLY FAN	ADDITIONAL MECH ROOM	15	-	600	3	-	3#8 Cu RW90 + #10 Cu BOND IN 27mm CONDUIT	3P40	-	VFD BY MECH	SINGLE POINT CONNECTION. 2x3HP MOTORS	
AHU-4	RETURN FAN	ADDITIONAL MECH ROOM	15	-	600	3	-						
AHU-4	CONTROLS POWER	ADDITIONAL MECH ROOM	1.5	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	BREAKER		
CF-3	MECH ROOM COOLING FAN	ADDITIONAL MECH ROOM	0.5	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA		
CF-4	ELECTRICAL ROOM COOLING FAN	NEW ELECTRICAL ROOM	0.5	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA		
UH-1.7	UNIT HEATER	ADDITIONAL MECH ROOM	0.05	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
UH-1.8	UNIT HEATER	ADDITIONAL MECH ROOM	0.05	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
UH-1.9	UNIT HEATER	SOLIDS TRAILER ROOM	0.08	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
UH-2.9	UNIT HEATER	GRIT/SOLIDS SCREENING ROOM	0.05	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
UH-2.10	UNIT HEATER	GRIT/SOLIDS SCREENING ROOM	0.05	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
UH-2.11	UNIT HEATER	GRIT/SOLIDS SCREENING ROOM	0.08	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
UH-2.12	UNIT HEATER	GRIT/SOLIDS SCREENING ROOM	0.08	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP		
NOTES									CONTROL DEVICE LEGEND				
1. MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FUSES AND OVERLOADS ACCORDINGLY. 2. CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DIVISION. 3. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH MECHANICAL DIVISION AND PROVIDE CONDUIT AND WIRING AS NECESSARY. 4. PROVIDE POWER SUPPLY TO CONTROL TRANSFORMERS PROVIDED BY DIV 21. COORDINATE EXACT LOCATIONS OF POWER SUPPLY WITH MECHANICAL PRIOR TO ROUGH-IN. 5. PROVIDE POWER TO OTHER MECHANICAL EQUIPMENT AS SHOWN ON PANEL SCHEDULE. 6. DUPLEX PUMPS PROVIDED WITH CONTROL PANEL SUPPLIED BY MECHANICAL, INSTALLED AND WIRED BY ELECTRICAL. CONTROL PANELS TO BE LOCATED ON SITE IN AN ACCESSIBLE LOCATION WITHIN LINE-OF-SIGHT TO PUMPS. 7. WHERE REQUIRED BY C.E.C. PROVIDE LOCAL DISCONNECT AT EACH MOTOR LOCATION. PROVIDE EXPLOSION PROOF DISCONNECT WHERE REQUIRED.									LRD - LOAD RATED DISCONNECT MAG - MAGNETIC STARTER CMS - MAGNETIC STARTER WITH DISCONNECT MMP - MANUAL MOTOR PROTECTION VFD - VARIABLE FREQUENCY DRIVE MCC - MOTOR CONTROL CENTRE JR - WITH LOAD RATED RELAY HOA - WITH H-O-A SWITCH /K - KEYED /P - PILOT LIGHT /SS - SOFT STARTER				

PROCESS MOTOR, CONTROL AND EQUIPMENT SCHEDULE												
EQUIPMENT	DESCRIPTION	LOCATION	HP	KW	VOLTS	PH	FLA	FEEDER	BREAKER	SOURCE	CONTROL	OPERATION
B-01-205	PRE-TREATMENT PLANT BLOWER TRAIN 1	PRELIMINARY TREATMENT-UPPER	-	5.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
SCRN-01-204	COARSE SOLIDS SCREEN - PRE-TREATMENT TRAIN 1	PRELIMINARY TREATMENT-UPPER	-	1.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	CMS/LRD	DUTY
SCR-01-201	GRIT CONVEYOR	PRELIMINARY TREATMENT-UPPER	-	1.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
SCR-01-203	GRIT EXTRACTOR	PRELIMINARY TREATMENT-UPPER	-	0.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
SCR-01-202	GREASE SCREW	PRELIMINARY TREATMENT-UPPER	-	0.55	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	CMS/LRD	DUTY
B-01-255	PRE-TREATMENT PLANT BLOWER TRAIN 2	PRELIMINARY TREATMENT-UPPER	-	5.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	STANDBY
SCRN-01-254	COARSE SOLIDS SCREEN - PRE-TREATMENT TRAIN 2	PRELIMINARY TREATMENT-UPPER	-	1.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	STANDBY
SCR-01-251	GRIT CONVEYOR	PRELIMINARY TREATMENT-UPPER	-	1.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	CMS/LRD	STANDBY
SCR-01-253	GRIT EXTRACTOR	PRELIMINARY TREATMENT-UPPER	-	0.5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	STANDBY
SCR-01-252	GREASE SCREW	PRELIMINARY TREATMENT-UPPER	-	0.55	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	CMS/LRD	STANDBY
HST-01-250	HOIST	PRELIMINARY TREATMENT-UPPER	-	5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
P-01-220	GREASE PUMP	PRELIMINARY TREATMENT-LOWER	-	3.7	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
P-01-230	GREASE PUMP	PRELIMINARY TREATMENT-LOWER	-	3.7	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	STANDBY
GDR-05-30	GRINDER 1 - PORT 1	SEPTAGE STATION ENCLOSURE	-	3.7	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
GDR-05-30	GRINDER 2 - PORT 2	SEPTAGE STATION ENCLOSURE	-	3.7	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	STANDBY
	HEATER	SEPTAGE STATION ENCLOSURE	-	10	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P25	-	LRD	DUTY
	HEATER	SEPTAGE STATION ENCLOSURE	-	10	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P25	-	LRD	DUTY
NOTES									CONTROL DEVICE LEGEND			
A. MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FUSES AND OVERLOADS ACCORDINGLY.									LRD - LOAD RATED DISCONNECT			
									MAG - MAGNETIC STARTER			
									CMS - MAGNETIC STARTER WITH DISCONNECT			
B. CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DIVISION.									MMP - MANUAL MOTOR PROTECTION			
									VFD - VARIABLE FREQUENCY DRIVE			
									MCC - MOTOR CONTROL CENTRE			
C. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH MECHANICAL DIVISION AND PROVIDE CONDUIT AND WIRING AS NECESSARY									/R - WITH LOAD RATED RELAY			
									/HOA - WITH H-O-A SWITCH			
									/K - KEYED			
									/P - PILOT LIGHT			
									/SS - SOFT STARTER			

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LIFT STATION MECHANICAL MOTOR, CONTROL AND EQUIPMENT SCHEDULE												
EQUIPMENT	DESCRIPTION	LOCATION	HP	KW	VOLTS	PH	FLA	FEEDER	BREAKER	SOURCE	CONTROL	NOTES
B-1	HW BOILER	MECH ROOM	0.13	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	LRD	
B-2	HW BOILER	MECH ROOM	0.13	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	LRD	
P-1	PRIMARY HW PUMP	MECH ROOM	0.17	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
P-2	PRIMARY HW PUMP	MECH ROOM	0.17	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
P-3	SECONDARY HW PUMP	MECH ROOM	-	0.44	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
P-4	SECONDARY HW PUMP	MECH ROOM	-	0.44	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
P-5	GLYCOL FILL TANK	MECH ROOM	-	0.05	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	GFI RECEPTACLE	
BC-1	BOILER CONTROLLER	MECH ROOM	-	0.01	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	BREAKER	
EF-1	PUMPING ROOM EXHAUST FAN	NEW PUMPING ROOM	0.5	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
EF-2	NEW WET WELL EXHAUST FAN	NEW PUMPING ROOM	0.5	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
EF-3	EXISTING WET WELL EXHAUST FAN	EXISTING PUMPING ROOM	0.25	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
CF-1	MECH ROOM COOLING FAN	ADDITIONAL MECH ROOM	0.06	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP/R/HOA	
UH-1	UNIT HEATER	NEW PUMPING ROOM	0.17	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP	
UH-2	UNIT HEATER	NEW PUMPING ROOM	0.05	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP	
UH-3	UNIT HEATER	EXISTING PUMPING ROOM	0.05	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P15	-	MMP	
	CONTROLS POWER	PUMPING ROOMS	-	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P16	-	BREAKER	
	CONTROLS POWER	PUMPING ROOMS	-	-	120	1	-	2#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	1P17	-	BREAKER	

NOTES

1. MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES. ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FUSES AND OVERLOADS ACCORDINGLY.
2. CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DIVISION.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH MECHANICAL DIVISION AND PROVIDE CONDUIT AND WIRING AS NECESSARY.
4. PROVIDE POWER SUPPLY TO CONTROL TRANSFORMERS PROVIDED BY DIV 21. COORDINATE EXACT LOCATIONS OF POWER SUPPLY WITH MECHANICAL PRIOR TO ROUGH-IN.
5. PROVIDE POWER TO OTHER MECHANICAL EQUIPMENT AS SHOWN ON PANEL SCHEDULE.
6. WHERE REQUIRED BY C.E.C. PROVIDE LOCAL DISCONNECT AT EACH MOTOR LOCATION. PROVIDE EXPLOSION PROOF DISCONNECT WHERE REQUIRED.

CONTROL DEVICE LEGEND

LRD - LOAD RATED DISCONNECT
MAG - MAGNETIC STARTER
CMS - MAGNETIC STARTER WITH DISCONNECT
MMP - MANUAL MOTOR PROTECTION
VFD - VARIABLE FREQUENCY DRIVE
MCC - MOTOR CONTROL CENTRE
/R - WITH LOAD RATED RELAY
/HOA - WITH H-O-A SWITCH
/K - KEYED
/P - PILOT LIGHT
/SS - SOFT STARTER

LIFT STATION PROCESS MOTOR, CONTROL AND EQUIPMENT SCHEDULE												
EQUIPMENT	DESCRIPTION	LOCATION	HP	KW	VOLTS	PH	FLA	FEEDER	BREAKER	SOURCE	CONTROL	OPERATION
P-01-100	RAW WASTEWATER PUMP 1	LIFT STATION #1	-	30	575	3	-	3#4 Cu RW90 + #8 Cu BOND IN 35mm CONDUIT	3P80	-	VFD/LRD	DUTY
P-01-200	RAW WASTEWATER PUMP 2	LIFT STATION #2	-	30	575	3	-	3#4 Cu RW90 + #8 Cu BOND IN 35mm CONDUIT	3P80	-	VFD/LRD	DUTY
P-01-300	RAW WASTEWATER PUMP 3	LIFT STATION #3	-	30	575	3	-	3#4 Cu RW90 + #8 Cu BOND IN 35mm CONDUIT	3P80	-	VFD/LRD	STANDBY
P-01-150	HOIST	LIFT STATION #4	-	5	575	3	-	3#12 Cu RW90 + #12 Cu BOND IN 21mm CONDUIT	3P15	-	LRD	DUTY
NOTES A. MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FUSES AND OVERLOADS ACCORDINGLY. B. CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DIVISION. C. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH MECHANICAL DIVISION AND PROVIDE CONDUIT AND WIRING AS NECESSARY									CONTROL DEVICE LEGEND LRD - LOAD RATED DISCONNECT MAG - MAGNETIC STARTER CMS - MAGNETIC STARTER WITH DISCONNECT MMP - MANUAL MOTOR PROTECTION VFD - VARIABLE FREQUENCY DRIVE MCC - MOTOR CONTROL CENTRE /R - WITH LOAD RATED RELAY /HOA - WITH H-O-A SWITCH /K - KEYED /P - PILOT LIGHT /SS - SOFT STARTER			

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