Project:	2023-RFT-058 Lift Station 1 & Lower Iqaluit PT.A2 to LS1 Project		
Addendum No.	4	**No. of Pages:**	16
Date:	August 14, 2023	**Doc. No:**	P7201-810372863-118(1.0)

The following change(s) in the Request for Quotation Documents are effective immediately.
This Addendum forms part of the Contract Documents.

CLARIFICATIONS

Q1. Would you be able to provide specifications of material and thickness of the weatherproof backer on the aluminum signs, as seen in M-602?

A1: For the signs that are shown on M602 provide a 3.0mm thick aluminum alloy 5052-H32. For the weatherproof backer provide a ¼" crezon plywood.

Q2. Would you be able to provide locations of construction joints?

A2: The locations of construction joints are to be determined by the contractor based on pour breaks.

Q3. Would you be able to provide more detail, such as location, on waterstop detail 3S-403?

A3: Waterstop shall be installed at all locations of construction joints.

Q4. Drawing A-301 shows guardrail and refers to structural drawings but there is no detail on the guardrail. Please provide detail on guardrail.

A4: Refer to drawings provided with this addendum.

Q5. Please provide dimensions and detail on the baffle wall including bent plate details.

A5: Refer to drawings provided with this addendum.

Q6. On S-002 it is indicated that we should refer to plans for analysis of snowdrift and wind uplift but there are no diagrams for snowdrift or wind uplift. Please provide the diagrams.

A6: There is no snow drift. For wind uplift, refer to drawings provided with this addendum.

Q7. Can you provided the anticipated peak flow rates from existing sewers entering LS1?

A7:

- MH 437 to LS#1

  - Peak: 5.3 L/s
  - Average: 1.5 L/s
- MH 1 to LS#1
  - Peak: 38.0 L/s
  - Average: 11.2 L/s

Q8. The structural plan indicates 18" TJI joists and rim board, the joist manufacturer recommends changing the details at bearing from continuous rim board to TJI blocking panels. Would this be acceptable?

A8: This is acceptable.

Q9. As this is a TJI roof, the joist manufacturer would recommend adding blocking panels to the design. Would this be acceptable?

A9: This is acceptable.

Q10. The specs indicate culverts, but they are not identified on the drawings. Please indicate where the culverts are on the drawings.

A10: There are no culverts noted in the drawings.

Q11. With the heavy portion of design delegation requirements as part of this project, an extension of time is requested to aid in sourcing licensed engineers who can join the team and review the documents to provide preliminary guidance for pricing and estimation purposes. A two (2) week extension is requested and would be appreciated. We do not believe this would interfere with the project delivery dates either.

A11: This is acceptable. New established dates are as follows:

- Inquiry deadline: August 21 @ 3 PM EST
- Addendum deadline: August 24 @ 3 PM EST
- Submission deadline: August 30 @ 3 PM EST

Q12. In 2021 the City did a project call the temporary lift station bypass project and the City purchased an equalization tank (frack Tank) and electric drive pumps. Will it be possible to use these items for the present project? if yes can we get the specs for these items?

Also, can you confirm that the tie-in to existing force main planned to be done in the project in 2021 was done as per design and usable for this RFT?

A12: The frac tank is available. Note the following:

- Frac tank only is being supplied, no inlet or outlet piping.
- Contractor is responsible for picking up the tank from a City-specified location.
- Contractor is responsible for returning the tank at a City-specified location.

- Contractor is responsible for any repairs or replacements if any damage is incurred on the tank.
- Bypass design drawings are being provided to show the intended design of the tank and forcemain tie-in. The City is not responsible and will not accommodate any cost changes for any deviations in actual conditions at the time of tank pickup.

Q13. Can we have the estimated flow coming from MH2 and also the line coming from AV437?

A13: Refer to A7. There is no contribution flow between MH 2 and MH 1, so it is the same flow through MH 2 and MH 1.

Q14. Referring to addendum 2, please provide the section mentioned in addendum 2 (07 15 50 & 26 29 33)

A14: Variable Frequency Drives should be section 26 29 23, not 26 29 33.

For section 07 15 50, a later addendum will be provided.

Q15. Referring to addendum 2, we can't put the specified waterproofing membrane under the slab as shown on drawing 7/A-402, we can consider it on wall foundation, please advise on which other we could combine for under the slab.

A15. Under slab to have sheet vapour barrier as per spec section 07 26 00.

Q16. Referring to specification section 03 30 00 2.10 B, the hardeners are specified to use where indicated in "the room finish schedule". We didn't find this schedule, could you provide it?

A16. Hardener to be applied to all top surface of mainfloor slab.

Q17. Referring to specification section 03 30 00 2.12, is sandblasting necessary for this tender?

A17. Sandblasting may be required to prepare surface to receive protective coating by coating manufacturer.

Q18. The civil drawings label the piles as concrete piles. Are concrete piles required or can typical adfreeze piles per the details provided be acceptable?

A18. Refer to structural drawings for pile design.

DRAWING REVISIONS

1. S-103 Revision F, Structural Lift Station No. 1, Main Floor Framing Plan

2. S-104 Revision F, Structural Lift Station No. 1, Roof Framing Plan

3. S-301 Revision F, Structural Lift Station No. 1, Sections and Details Sheet 1 of 3

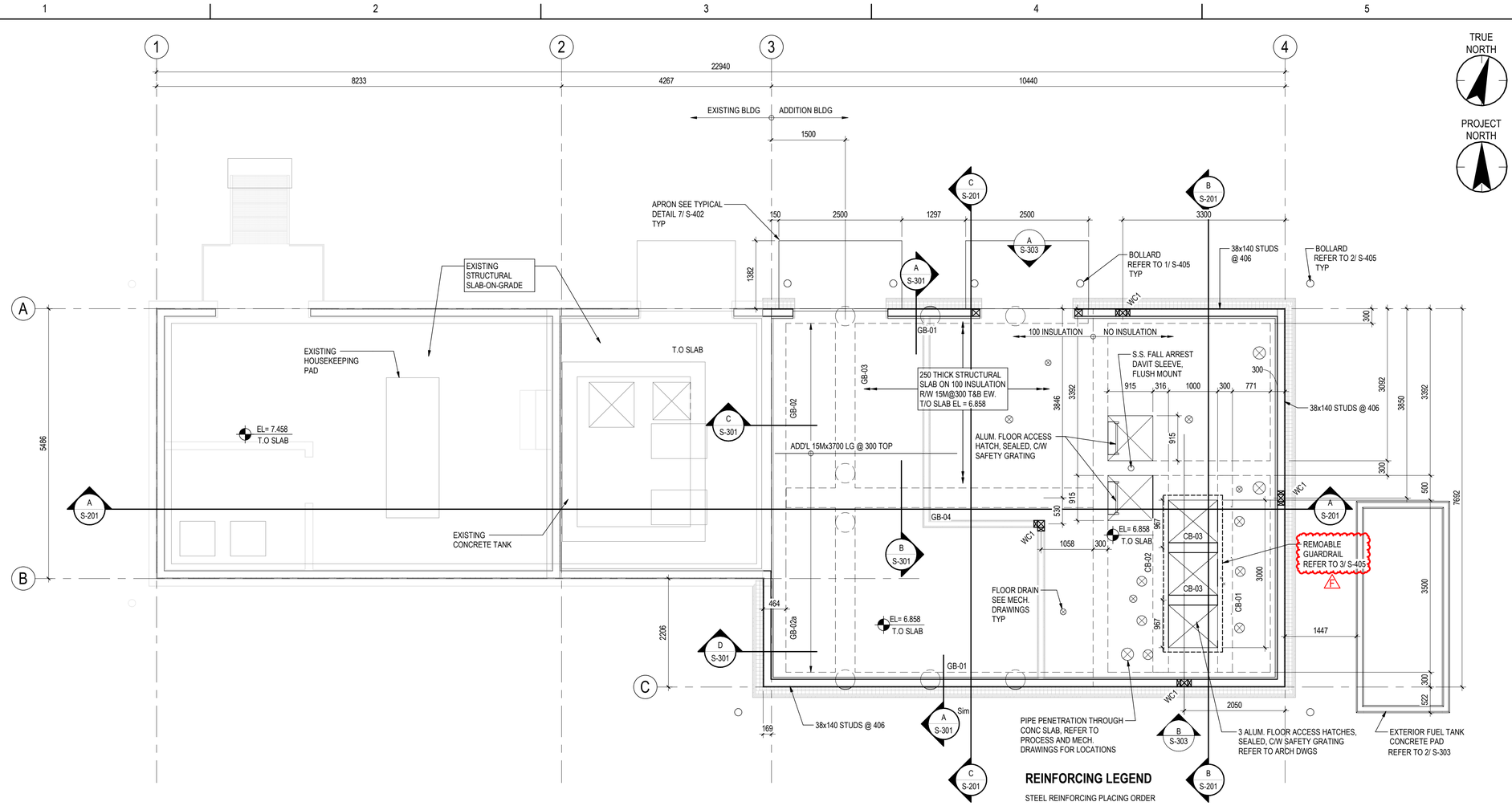
4. S-405 Revision D, Structural Lift Station No. 1, Typical details Sheet 5 of 5

ATTACHMENTS

1. Drawings:

- S-103 dated 8/11/2023
- S-104 dated 8/11/2023
- S-301 dated 8/11/2023
- S-405 dated 8/11/2023

2. City of Iqaluit Lift Station No. 1, Temporary Bypass, As-built Drawings – January 2023



NOTES:
1. REFER TO DESIGN NOTES AND DESIGN TALBES SERIES S00X.
2. REFER TO TYPICAL DETAILS SERIES S40X.
3. MAIN FLOOR ELEVATION = 6.858 GEODETIC.

1 S-103 MAIN FLOOR FRAMING PLAN

1 : 50

REINFORCING LEGEND

STEEL REINFORCING PLACING ORDER

TOP LAYER

BOTTOM LAYER

CONCRETE BEAM SCHEDULE

MARK	WIDTH	DEPTH	TOP REINF.	BOT REINF.	STIRRUPS	COMMENTS
CB-01	300	500	4-20M	2-20M	10M@200	
CB-02	316	500	4-20M	2-20M	10M@200	
CB-03	200	300	2-20M	2-20M	10M@200	TOP OF BEAM TO BE BOTTOM OF HATCH DOOR FRAMING

NOTES:
1. HOOK THE TOP AND BOTTOM REINF INTO GRADE BEAM /CONCRETE WALL.
2. ALL STIRRUPS ARE CLOSED TIES.

GRADE BEAM SCHEDULE

MARK	WIDTH	DEPTH	TOP REINF.	BOT REINF.	HORIZONTAL EF	STIRRUPS	COMMENTS
GB-01	300	700	4-25M	3-20M	2-15M E.F.	10M@300	10M@100 STIRRUPS AT CANTILEVER
GB-02	300	700	2-20M	2-20M	2-15M E.F.	10M@300	
GB-02a	464	700					REFER TO SECTION 6/S301
GB-03	400	700	4-25M	4-20M	2-15M E.F.	10M (4 LEGS) @ 300, 10M (4 LEGS) @ 100 MID-SPAN	
GB-04	400	700	4-25M TUL + 2-25M TLL	4-20M BOT	2-15M E.F.	10M@300	10M (4 LEGS) @100 STIRRUPS AT CANTILEVER

WOOD COLUMN SCHEDULE

MARK	SIZE	COMMENTS
WC1	140x140	

NOTES:
1. SEE DETAIL A/S303 AND 1/S303.

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Notes

F	ADDENDUM S01	KL	QW	2023.08.11
E	ISSUED FOR TENDER	KL	QW	2023.06.27
D	TENDER - FOR REVIEW	KL	QW	2023.05.24
C	ISSUED FOR 100% REVIEW	KL	QW	2023.04.19
B	ISSUED FOR 90% REVIEW	KL	QW	2023.02.27
A	ISSUED FOR 50% REVIEW	KL	QW	2022.11.10
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A — Dwn. KL — Dsgn. QW — Chkd. DC — 10/26/22 YYYY.MM.DD

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LIFT STATION NO. 1, SEPTAGE RECEIVING STATION AND LOWER IQALUIT SEWER

Iqaluit, Nunavut

Title

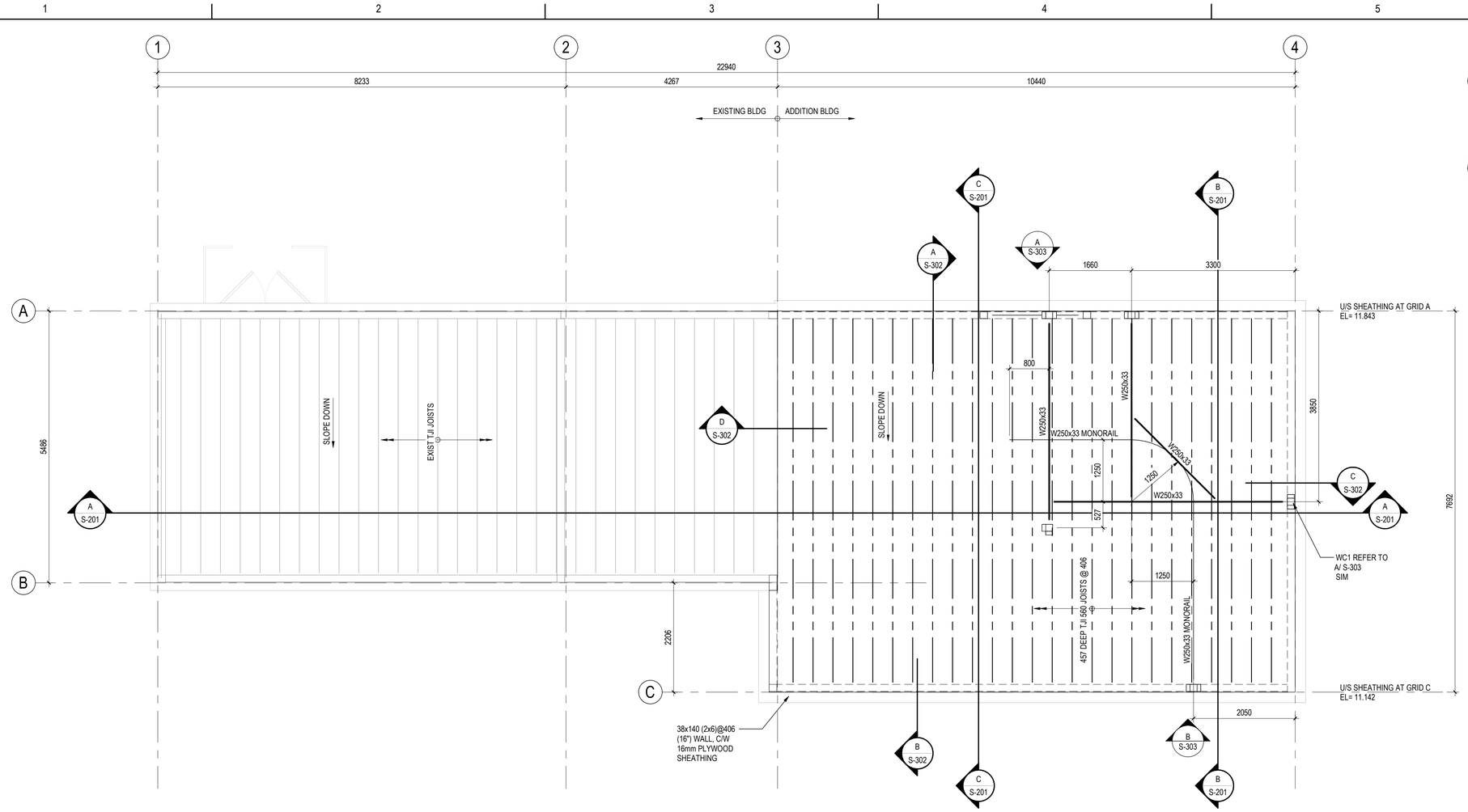
STRUCTURAL
LIFT STATION NO. 1
MAIN FLOOR FRAMING PLAN

Project No. 1101 000074

Scale As indicated

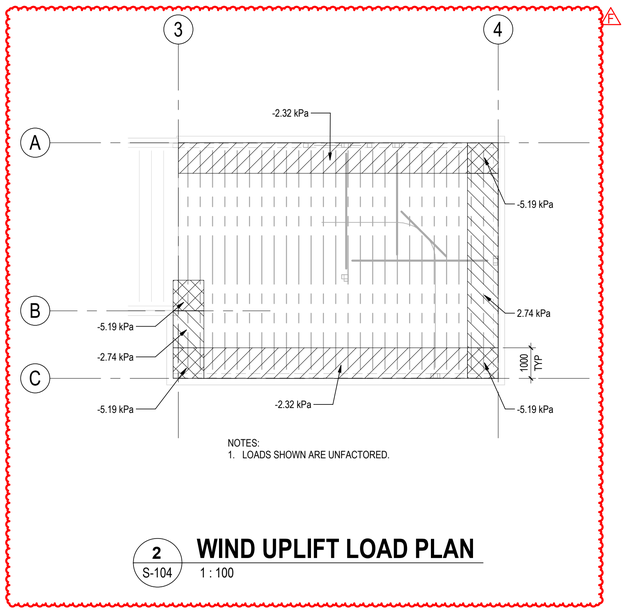
Revision F

Drawing No. **S-103**



1 ROOF FRAMING PLAN
S-104 — 1 : 50

WOOD FRAMING NOTES:
1. REFER TO DESIGN NOTES AND DESIGN TALBES SERIES S00X.
2. REFER TO TYPICAL DETAILS SERIES S40X.
3. EXTERIOR WALL TO BE 38x140 (2x6) @ 406 (16") WALL, C/W 16mm PLYWOOD SHEATHING EACH SIDE. FASTEN ALL SHEATHING WITH 3.25 DIA. x 64 LONG COMMON WIRE NAILS @ 150 AT PANEL EDGES AND 300 ALONG INTERMEDIATE FRAMING MEMBERS.
4. FASTEN ALL 16mm PLYWOOD ROOF SHEATHING WITH 3.25 DIA. X 64 LONG COMMON WIRE NAILS @ 150 AT PANEL EDGES AND 300 ALONG INTERMEDIATE FRAMING MEMBERS.



NOTES:
1. LOADS SHOWN ARE UNFACTORED.

2 WIND UPLIFT LOAD PLAN
S-104 — 1 : 100

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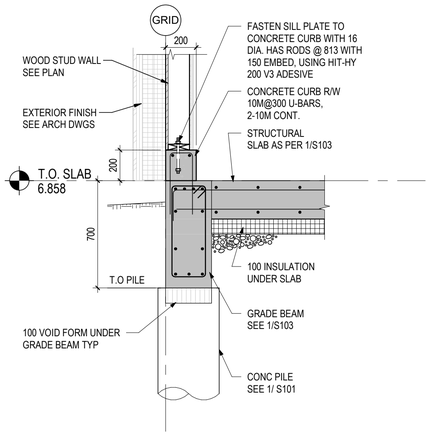
Title
STRUCTURAL
LIFT STATION NO. 1
ROOF FRAMING PLAN

Project No.
1101 000074

Scale
As indicated

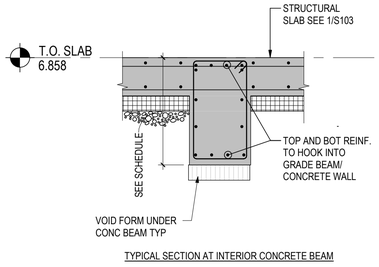
Revision
F

Drawing No.
S-104



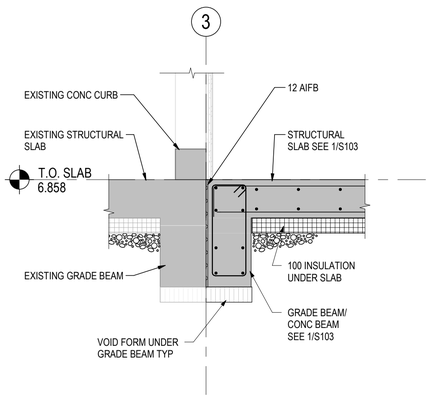
TYPICAL SECTION AT EXTERIOR GRADE BEAM

A S-301 **SECTION** 1 : 20

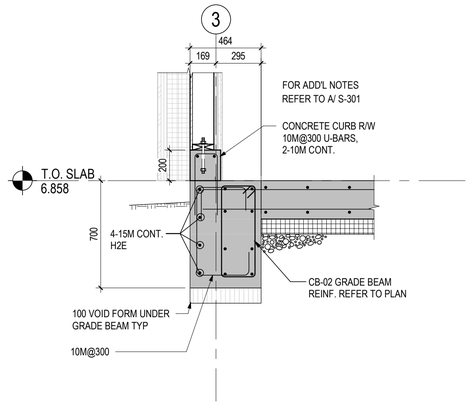


TYPICAL SECTION AT INTERIOR CONCRETE BEAM

B S-301 **SECTION** 1 : 20

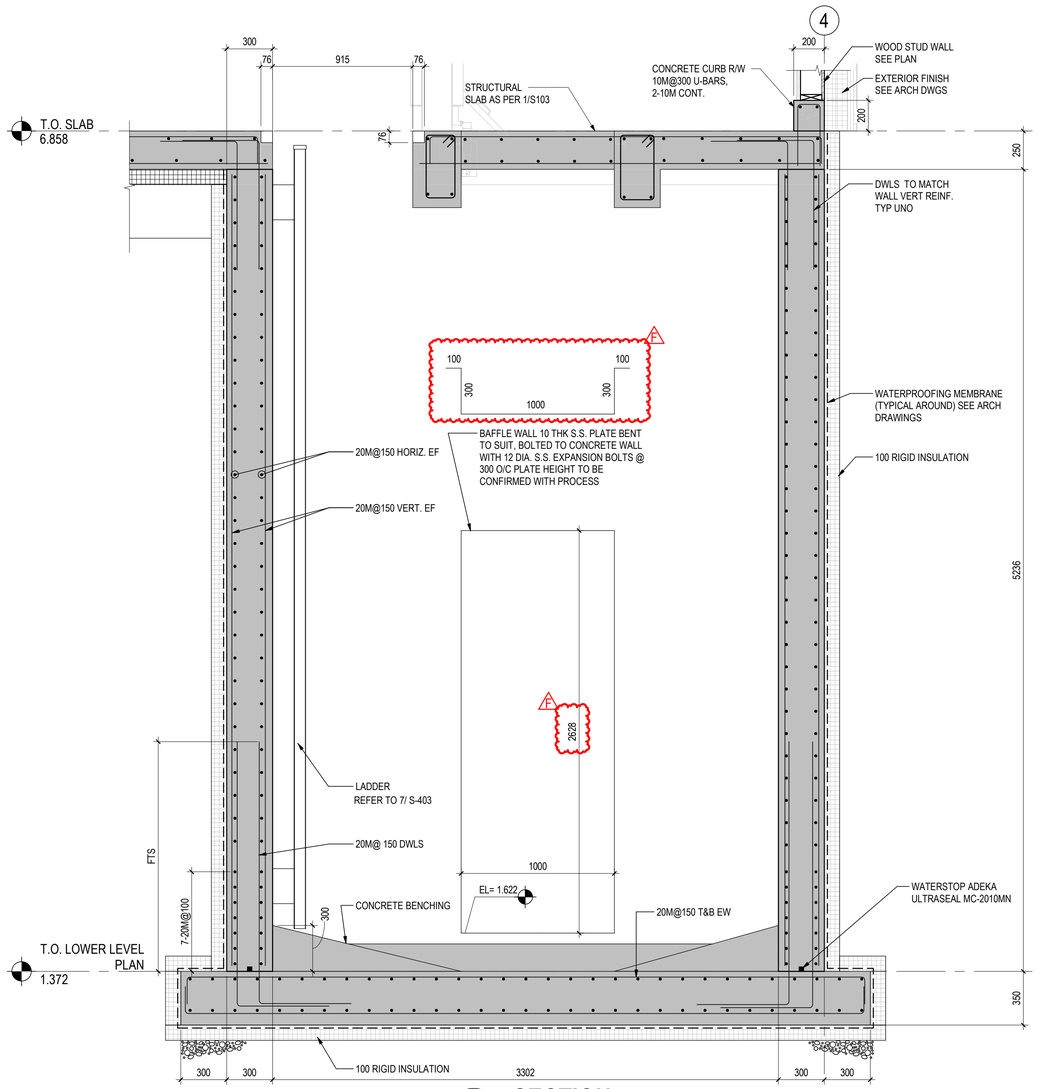


C S-301 **SECTION** 1 : 20

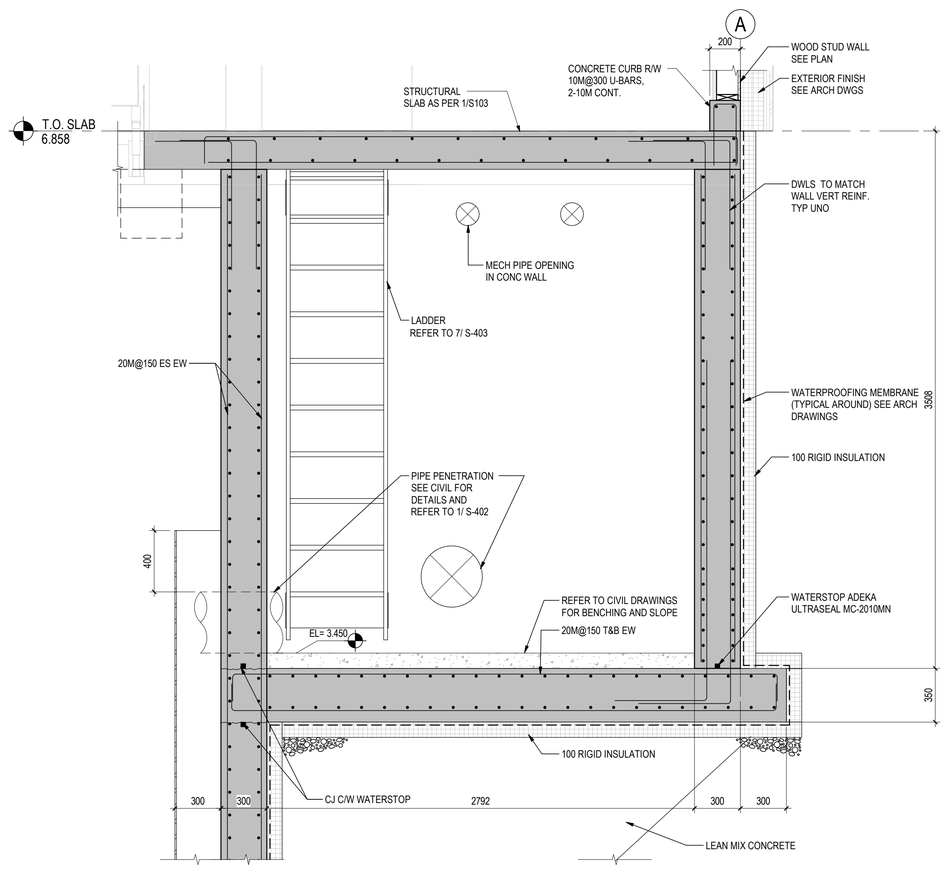


SECTION AT GRADE BEAM GB-02a

D S-301 **SECTION** 1 : 20



E S-301 **SECTION** 1 : 20



F S-301 **SECTION** 1 : 20

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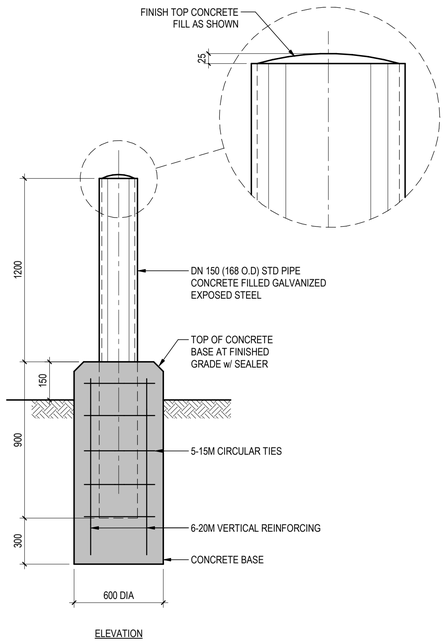
Title

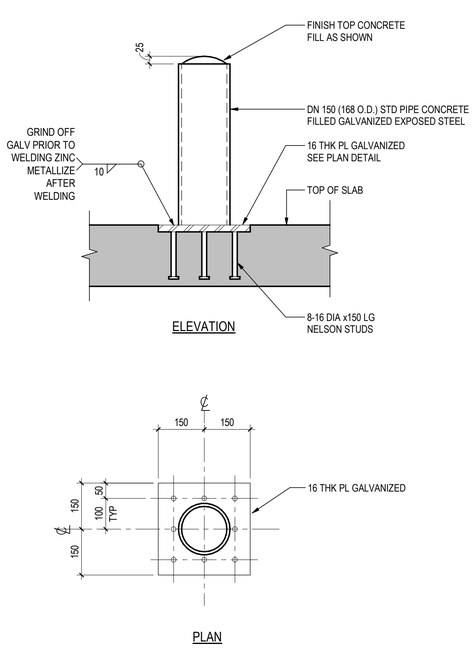
STRUCTURAL
LIFT STATION NO. 1
SECTIONS AND DETAILS SHEET 1 OF 3

Project No.	Scale
1101 000074	1 : 20
Revision: F	Drawing No.: S-301



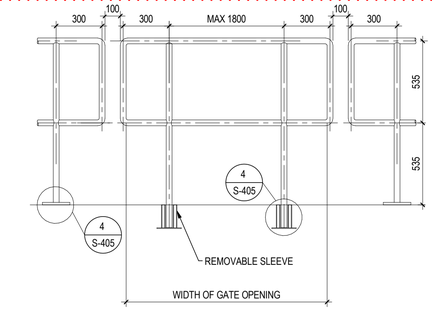
1 S-405 TYPICAL SELF SUPPORTED BOLLARD DETAIL

NTS



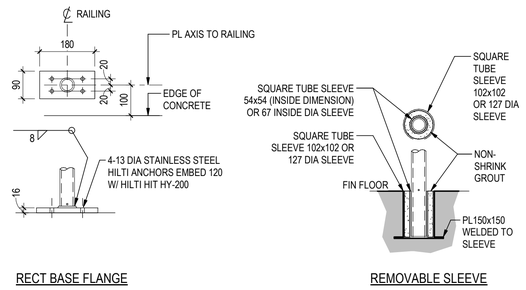
2 S-405 TYPICAL SLAB SUPPORTED BOLLARD

NTS



3 S-405 TYPICAL REMOVABLE HANDRAIL SECTION

NTS



4 S-405 TYPICAL ALUMINUM RAILING CONNECTION DETAILS TO CONCRETE

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LIFT STATION NO. 1, SEPTAGE RECEIVING STATION AND LOWER IQALUIT SEWER

Iqaluit, Nunavut

Title

STRUCTURAL
LIFT STATION NO. 1
TYPICAL DETAILS SHEET 5 OF 5

Project No. 1101 000074	Scale As indicated
Revision D	Drawing No. S-405

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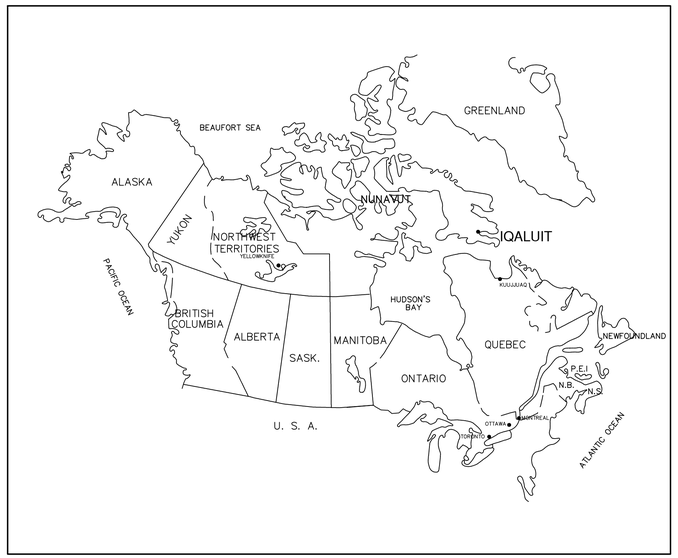
LIFT STATION NO. 1
TEMPORARY BYPASS

INDEX OF INCLUDED DRAWINGS

DRAWING NO.	REVISION	DESCRIPTION
		COVER SHEET
FRN-21005203-A0 – 46-1	C	P&ID, SYMBOLS, LEGEND AND ABBREVIATIONS
FRN-21005203-A0 – 46-2	C	TEMPORARY LIFT STATION SITE PLAN
FRN-21005203-A0 – 46-2A	A	BYPASS CONNECTION AND LIFT STATION MODIFICATION
FRN-21005203-A0 – 46-3	C	TEMPORARY LIFT STATION PLAN AND SECTION
FRN-21005203-A0 – 46-4	C	TEMPORARY EQUALIZATION TANK SECTION
FRN-21005203-A0 – 26-1	C	TEMPORARY LIFT STATION ELECTRICAL SITE PLAN
FRN-21005203-A0 – 26-2	C	TEMPORARY LIFT STATION ELECTRICAL DETAILS



AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

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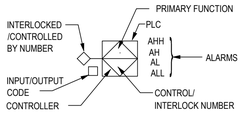
AS-BUILT DRAWINGS - JANUARY 2023

ABBREVIATIONS

AA-	ANALYSIS ALARM
AAV-	AUTOMATIC AIR VENT
AC-	ANALYSIS CONTROL OR AIR COMPRESSION
AE-	ANALYSIS ELEMENT
AHLR-	ALARM HIGH/LOW RECORDING
AH-	ALARM HIGH
AHH-	ALARM HIGH/HIGH
AI-	ANALYSIS INDICATOR
AIR-	AIR
AIT-	ANALYSIS INDICATING TRANSMITTER
AL-	ALARM LOW
ALL-	ALARM LOW/LOW
AM-	AUGER MOTOR
AOV-	AIR OPERATED VALVE
AR-	ANALYSIS RECORDER
ARI-	ANALYSIS RECORDER/INDICATOR OR ANAEROBIC REACTOR INFLUENT
ART-	AIR RECEIVER TANK
ARVB-	AIR RELIEF AND VACUUM BREAKER
AS-	AUTOMATIC SAMPLER
BC-	BELT CONVEYOR
BF-	BACK FLUSH
BP-	BOOSTER PUMP
BPV-	BACK PRESSURE VALVE
BS-	BASKET SCREEN
BSP-	BUILDING SUMP PUMP
BSV-	BLOCKING SAFETY VALVE
BVF-	BULK VOLUME FERMENTER
BV-	BUTTERFLY VALVE
BWP-	BOOSTER WATER PUMP
CA-	COMPRESSED AIR
CAD -	COMPRESSED AIR DRYER
CC -	CALIBRATION COLUMN
CD -	CONDENSATE DRAIN
CF -	CARTRIDGE FILTER
CFB -	CARTRIDGE FILTER BANK
CFP -	CHEMICAL FEED PANEL
CHK-	CHECK VALVE
CL-	CLASS OR CHLORINE
CP-	CHEMICAL PUMP
CS -	CONTROL STATION
CV -	CONTROL VALVE
DCS -	DISTRIBUTED CONTROL SYSTEM
DO -	DISSOLVED OXYGEN
DP -	DISTRIBUTION PUMP
DPG -	DIFFERENTIAL PRESSURE GAUGE OR DIGITAL PRESSURE GAUGE
DPT-	DIFFERENTIAL PRESSURE TRANSMITTER
DR -	DRAIN
DS -	DRAIN SUMP
DSP -	DRAIN SUMP PUMP
DT -	DRIP TRAP
EJ -	EXPANSION JOINT
EOF -	EMERGENCY OVERFLOW
EP -	EMERGENCY PUMP
ETK -	EXPANSION TANK
FA -	FLOW ALARM
FAL -	FLOW ALARM LOW
FC -	FLOW CONTROLLER OR FLAME CHECK OR FLUSH CONNECTION
FCV -	FLOW CONTROL VALVE
FD -	FLOOR DRAIN
FDS -	FINE DRUM SCREEN
FE -	FLOW ELEMENT
FI -	FLOW INDICATOR
FIT -	FLOW INDICATING TRANSMITTER
FLV -	FLOAT VALVE
FM -	FLOWMETER
FP-	FIRE PUMP
FQI -	FLOW QUANTITY INDICATOR
FQR -	FLOW QUANTITY RECORDER
FQRI -	FLOW QUANTITY RECORDER/INDICATOR
FV -	FILL VALVE OR FOOT VALVE
FW -	FLUSH WATER
GEC -	GAS ELIMINATION CHAMBER
GG -	GAUGE GUARD
GV&B-	GATE VALVE & BOX
H -	HORN
HB -	HOSE BIBB
HP -	HEATING PUMP
HS -	HAND SWITCH
HX -	HEAT EXCHANGER
IC -	CURRENT CONTROLLER
INF -	INFLUENT
INJ -	VENTURI INJECTOR
IP -	INFLUENT PUMP
IT -	CURRENT TRANSMITTER
IV -	INJECTION VALVE
JP-	JOCKEY PUMP
JRC -	JET RECIRCULATION
JRP -	JET RECIRCULATION PUMP
KC -	TIMER CONTROLLER
LA -	LEVEL ALARM
LAH -	LEVEL ALARM HIGH
LAL -	LEVEL ALARM LOW
LAHL -	LEVEL ALARM HIGH/LOW
LARI -	LEVEL ALARM RECORDER INDICATOR
LC -	LEVEL CONTROLLER
LCP -	LOCAL CONTROL PANEL
LE -	LEVEL ELEMENT
LI -	LEVEL INDICATOR
LIT -	LEVEL INDICATING TRANSMITTER
LPS -	LADDER PIPE SUPPORT
LR -	LEVEL RECORDER
LRI -	LEVEL RECORDER/INDICATOR
LS -	LEVEL SWITCH
LSC -	LEVEL SWITCH CLOSED
LSH -	LEVEL SWITCH HIGH
LSL -	LEVEL SWITCH LOW
MCV -	MODULATING CONTROL VALVE
MF-	MEDIA FILTER
MFV -	MULTI-FUNCTION VALVE
MIX -	MIXER
MV -	MOTORIZED VALVE
NC -	NORMALLY CLOSED
NO -	NORMALLY OPEN
NTU-	TURBIDITY
NWL -	NORMAL WATER LEVEL
OCV -	OPEN/CLOSE VALVE
ORP-	OXIDATION REDUCTION POTENTIAL SENSOR
OVF -	OVERFLOW
PAH -	PRESSURE ALARM HIGH
PAL -	PRESSURE ALARM LOW
PAM -	POLYMER SYSTEM
PC -	PRESSURE CONTROLLER
PE-	PRESSURE ELEMENT
PG -	PRESSURE GAUGE OR PROPANE GAS
PHIT -	PH AND TEMPERATURE
PIT -	PRESSURE INDICATING TRANSMITTER
PRI -	PRESSURE RECORDER/INDICATOR
PRV -	PRESSURE RELIEF, REGULATING OR REDUCING VALVE
PS -	PRESSURE SWITCH
PSH -	PRESSURE SWITCH HIGH
PT -	PRESSURE TRANSMITTER
PV -	PINCH VALVE
QC -	QUICK CONNECT
RP -	RECLAIM PUMP
RSP -	REMOVABLE SUMP PUMP
S -	SOLENOID
SA -	SAMPLE
SAMH-	SANITARY MANHOLE
SARV -	SEWAGE AIR RELIEF VALVE
SC -	SPEED CONTROLLER/VFD OR SCREEN
SFB -	SINGLE FUEL BOILER
SG -	SUCTION GUIDE OR SIGHT GLASS
SM -	STATIC MIXER
SMP -	SAMPLER PUMP
SP -	SAMPLE POINT OR SOLUTION PUMP
ST -	SAMPLE TAP
SV -	SOLENOID VALVE
T-	TEMPERATURE
TA -	TEMPERATURE ALARM
TAH -	TEMPERATURE ALARM HIGH
TC -	TEMPERATURE CONTROLLER
TE -	TEMPERATURE ELEMENT
TG -	TEMPERATURE GAUGE
TI -	TEMPERATURE INDICATOR
TT -	TEMPERATURE INDICATING TRANSMITTER
TIS -	TEMPERATURE INDICATING SWITCH
TK -	TANK
TRI -	TEMPERATURE RECORDER/INDICATOR
TS -	TEMPERATURE SWITCH OR TUBE SETTLER
TT -	TEMPERATURE TRANSMITTER
V -	VALVE
VFD -	VARIABLE FREQUENCY DRIVE
VT -	VENT
W -	WATER
YA -	EVENT ALARM
YC -	EVENT/STATUS CONTROLLER
YS -	EVENT SWITCH
ZS -	LIMIT SWITCH
ZSL -	LIMIT SWITCH LOW
ZSC -	LIMIT SWITCH CLOSED
ZSO -	LIMIT SWITCH OPEN
ZSOC -	LIMIT SWITCH OPEN/CLOSED

PLC AND DEVICE LEGEND



PLC I/O

A	1 DISCRETE OUTPUT	G		L	DEVICENET
B	1 DISCRETE OUTPUT 2 DISCRETE INPUTS	H	1 ANALOG OUTPUT 1 DISCRETE INPUT	XX	INTERLOCKS USED: 1-
C	1 DISCRETE INPUT	I	1 ANALOG OUTPUT		
D	1 ANALOG INPUT	J	2 DISCRETE OUTPUT		
E		K	4 DISCRETE INPUTS 2 ANALOG INPUTS		
F	1 DISCRETE OUTPUT 2 DISCRETE INPUTS 1 ANALOG OUTPUT				

PROCESS AREA IDENTIFIERS

IDENTIFIER	DESCRIPTION	IDENTIFIER	DESCRIPTION
10	LOW PRESSURE		
20	HIGH PRESSURE		
30	RECIRCULATION		

PLC SYMBOLS

	FIELD MOUNTED
	PRIMARY REMOTE LOCATION

CONTROL PANELS

	FIELD MOUNTED
	PRIMARY REMOTE LOCATION

INSTRUMENT SYMBOLS

	SINGLE DEVICE FIELD MOUNTED
	MULTIPLE DEVICES INTEGRALLY CONNECTED
	MULTIPLE DEVICES REMOTELY CONNECTED

EQUIPMENT IDENTIFICATION PROCEDURE

NN DDD #

INSTRUMENT OR PRIMARY SENSING ELEMENT

NN: TWO DIGIT PROCESS AREA NUMBER. THIS IS USED TO IDENTIFY THE AREA OF THE PROCESS IN WHICH THE EQUIPMENT IS USED RATHER THAN THE AREA IN WHICH IT IS LOCATED.

DDDD: DEVICE DESCRIPTION FROM LEGEND

IN AREA NN. EG., THE FIRST PG IN THE SYSTEM IS 10-PG-01; ETC.

#: DEVICE/EQUIPMENT NUMBER

INFORMATION BLOCKS

A — FLOWSTREAM CONTINUATION TO/FROM OTHER DRAWINGS OR TO/FROM PROCESS BY OTHERS.

A — FLOWSTREAM CONTINUATION ON SAME DRAWING

END DELIVERY (BATTERY LIMITS)

EQUIPMENT & PIPING ACCESSORIES

- AIR FILTER
- PIPE CAP OR PLUG
- COUPLING
- BLIND FLANGE (IN-LINE)
- BLIND FLANGE
- COMPENSATOR
- DRAIN
- SPRAY NOZZLE
- VENT
- PULSE ABSORBER
- VENTURI INJECTOR
- UNION
- SIPHON
- SIGHT-GLASS WITH FLOW READING
- SIGHT-GLASS
- FLEXIBLE CONNECTOR
- FLEXIBLE CONNECTING REDUCER
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TRUCK CONNECTION
- GRAVITY FLOW
- JET MIX / JET AERATION
- SILENCER
- SPRAY NOZZLE
- HEADER
- CONDENSATE OR DRIP TRAP
- STRAINER
- STATIC MIXER
- BRAIDED HOSE
- CLEANOUT
- PURGE POINT
- DECANTER
- BASKET SCREEN
- LIQUID SEAL
- HEAT EXCHANGER
- GUAGE GUARD
- SEDIMENT MOISTURE TRAP
- AIR RELIEF VALVE AND BREAKER
- HOSE CONNECTION
- PUMP
- POSITIVE DISPLACEMENT PUMP
- IMPELLER TYPE MIXER
- COMPRESSOR
- FLOOR DRAIN
- FLOW METER
- HOSE CONNECTOR
- BACK FLOW PREVENTER
- FLOW DIRECTION

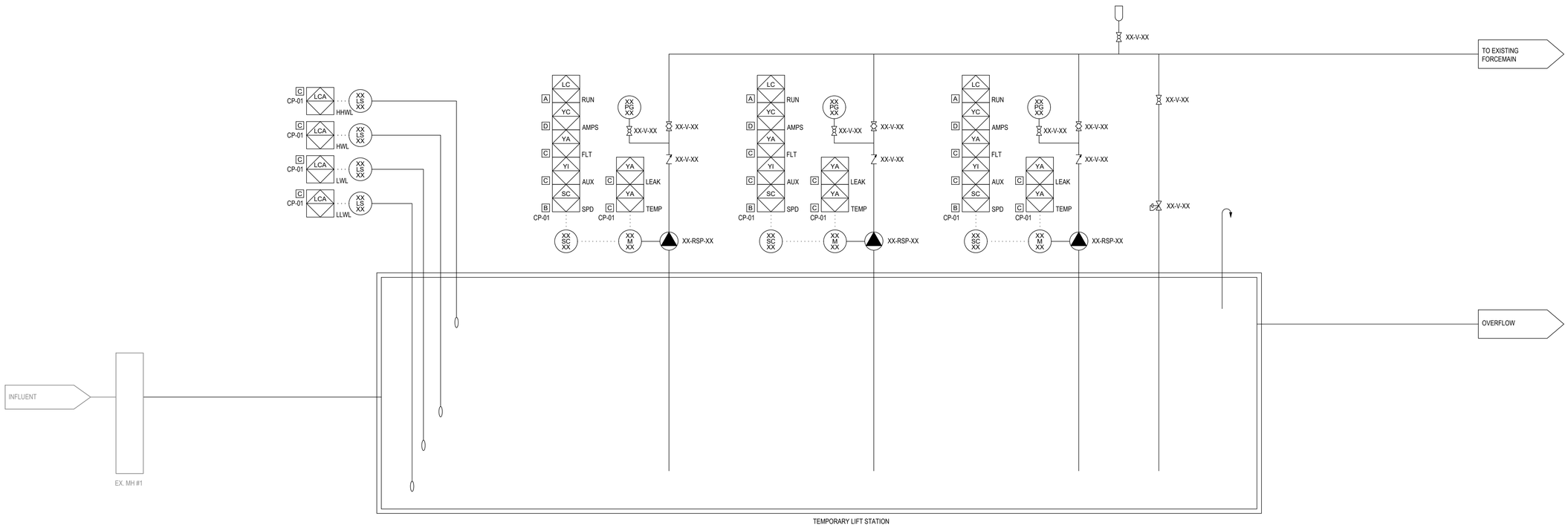
VALVES

- VALVE (BASIC SYMBOL)
- BALL VALVE
- PLUG VALVE
- THREE WAY PLUG VALVE
- DIAPHRAGM VALVE
- NEEDLE VALVE
- KNIFE GATE VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- FOOT VALVE
- THREE WAY COCK
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- OVER PRESSURE RELIEF VALVE
- UNDER PRESSURE RELIEF VALVE
- ADJUSTABLE OVER PRESSURE RELIEF VALVE
- BACK PRESSURE VALVE
- PINCH VALVE
- LUBRICATED PLUG VALVE
- MOTOR ACTUATED
- DIAPHRAGM ACTUATED
- FLOAT CONTROLLED
- SPRING ACTUATED
- WEIGHT CONTROLLED
- SOLENOID VALVE
- PNEUMATIC CONTROL VALVE
- LOCKABLE ACTUATOR ON VALVE
- VENT VALVE
- PRESSURE REGULATOR
- MOTORIZED SAFETY SHUT-OFF VALVE
- SHUT-OFF COCK
- TWIN FLAPPER CHECK VALVE
- MULTI-FUNCTION VALVE
- GV&B — GATE VALVE AND BOX
- BV&B — BUTTERFLY VALVE AND BOX
- GLOBE VALVE
- PRESSURE REDUCING VALVE

DRIVER TYPE

- M — ELECTRIC
- H — HYDRAULIC
- P — PNEUMATIC

NOTE: NOT ALL ABBREVIATIONS, LEGEND, SYMBOLS, VALVE TYPE, PROCESS ABBREVIATIONS, ETC APPLY



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No.	Issue	Date
A	ISSUED FOR REVIEW	2021.AUG.13
B	ISSUED FOR TENDER	2021.AUG.30
C	AS BUILT	2023.JAN.31

AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

No.	Revision	Date

AS-BUILT

Professional Seal(s)

Drawn By:	ARL
Dwg Standards Ckd By:	
Designed By:	EAB
Design Checked By:	
Scale:	AS SHOWN

Project Title

LIFT STATION #1 BYPASS

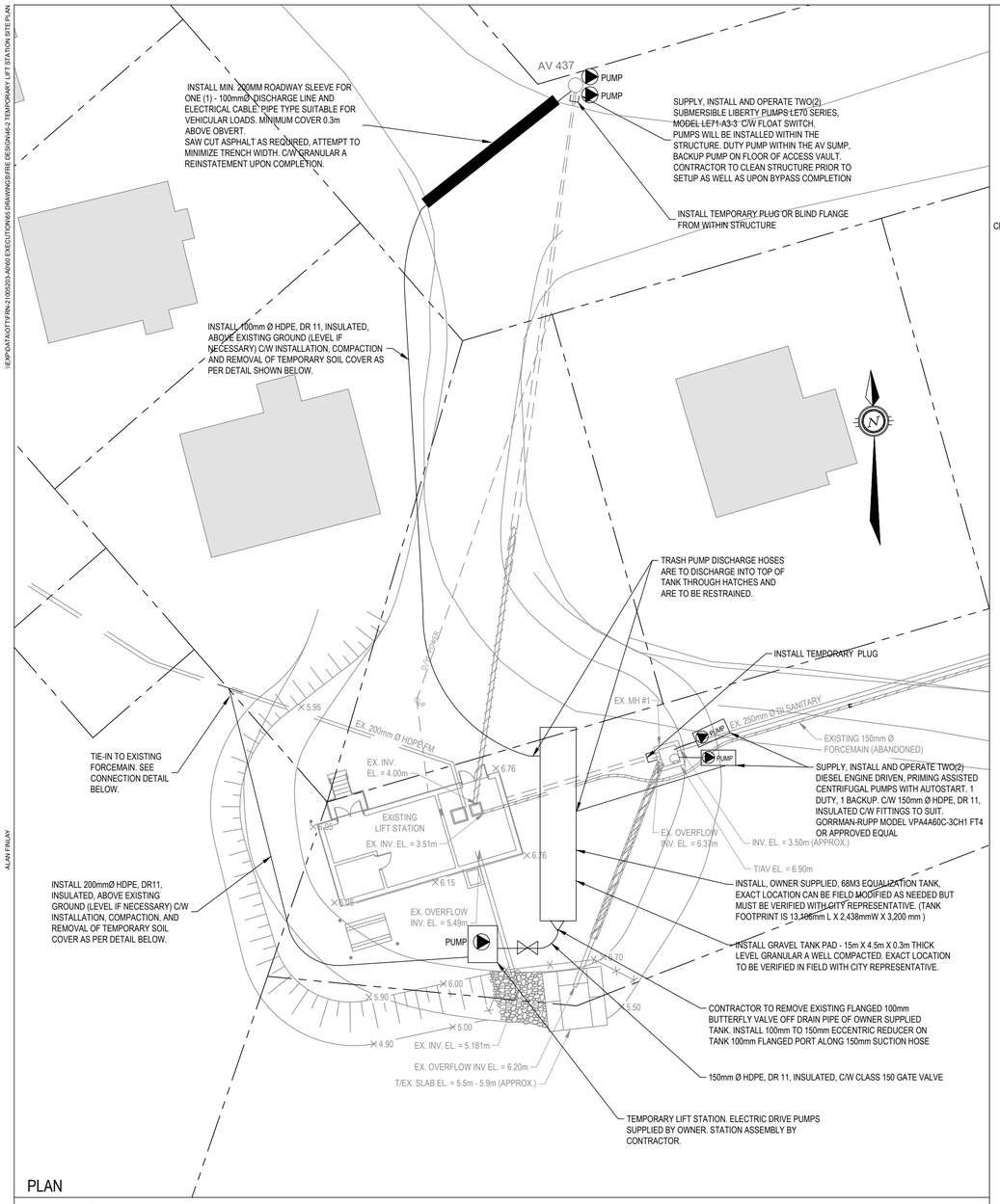
Dwg. Title

P&ID, SYMBOLS, LEGEND AND ABBREVIATIONS

Project No. FRN-21005203-A0

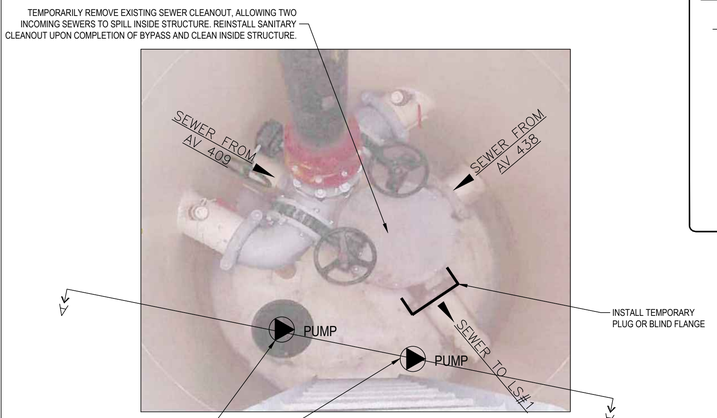
Dwg. No. **46-1**

Rev. No. C

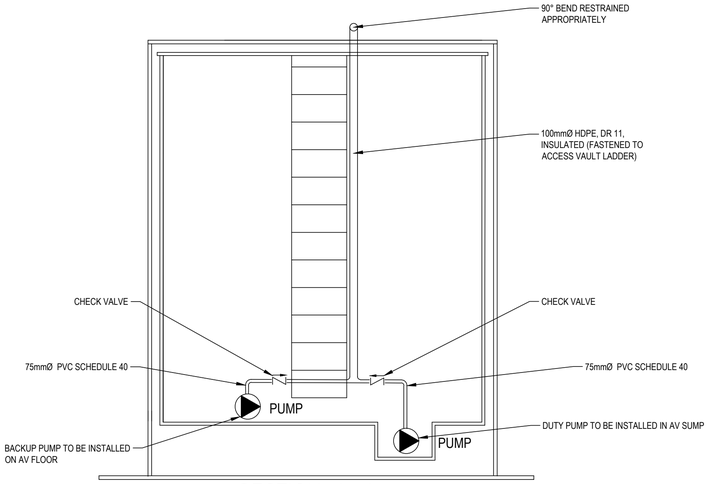


PLAN

SITE LAYOUT 1:200



AV 437



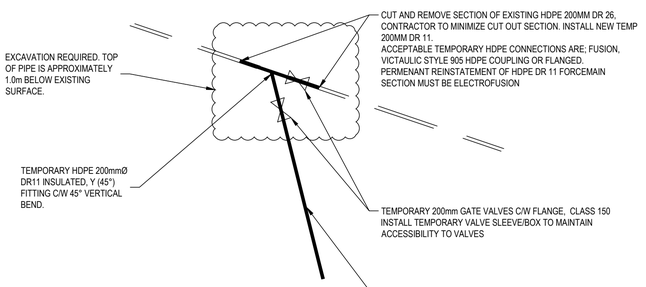
SECTION A–A
N.T.S.

LEGEND

AV 331 ○	EXISTING ACCESS VAULT
═══	EXISTING SANITARY SEWER
═══ ═══	EXISTING SANITARY FORCEMAIN
═══	PROPOSED TEMPORARY BYPASS
⋈	GATE VALVE
⩘	CHECK VALVE
◐	PUMP
PP	EXISTING UTILITY POLE

GENERAL NOTES

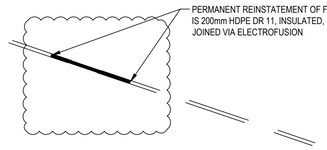
1. EXACT ALIGNMENT OF TEMPORARY PIPING AND TANKS TO BE DETERMINED IN FIELD.
2. ALL TEMPORARY BENDS TO BE BRACED WITH CONCRETE THRUST BLOCKS
3. TEMPORARY FORCEMAIN PIPING (TANK TO FORCEMAIN) AND FITTINGS TO BE 200MM HDPE DR 11, INSULATED
4. HYDROSTATIC TEST TEMPORARY 200MM HDPE FORCEMAIN PIPING PRIOR TO PUTTING INTO SERVICE.
   i) 2HRS AT 160PSI
5. CONTRACTOR TO SUPPLY AND MAINTAIN CONSTRUCTION FENCING AROUND OPEN EXCAVATIONS, ACCESS VAULTS AND MANHOLES.
6. CONTRACTOR TO SUPPLY AND MAINTAIN ALL REQUIRED CONSTRUCTION SIGNAGE
7. TEMPORARY SEWAGE BYPASS SYSTEM
   7.1 ALL TEMPORARY HOSES AND POWER CABLES THAT CROSS ROADWAYS OR SIDEWALKS SHALL BE BELOW SURFACE AND ADEQUATELY SUPPORTED AND PROTECTED. THE INSTALLATION AND OPERATION OF THE TEMPORARY SEWAGE BYPASS SYSTEM SHALL BE PERFORMED TO MINIMIZE DISTURBANCE TO PRIVATE PROPERTY. IF PRIVATE PROPERTY IS DAMAGE, THE CONTRACTOR SHALL REINSTATE THE PROPERTY TO THE SATISFACTION OF THE ENGINEER AND THE PROPERTY OWNER.
   7.2 CONTRACTOR IS TO PROVIDE 24HR MONITORING OF TEMPORARY SANITARY BYPASS SYSTEM AND BE ABLE TO RESPOND TO OPERATIONAL ISSUES AS REQUIRED TO PROVIDE AND MAINTAIN CONTINUOUS SANITARY BYPASS PUMPING SYSTEM.
   7.3 INSTALLATION OF TEMPORARY (AND PERMANENT) CONNECTIONS TO EXISTING 200MM FORCEMAIN CAN BE COMPLETED DURING THE NIGHT. LS #1 CAN BE TAKEN OFF LINE TO COMPLETE CONNECTIONS. CITY VACCUM TRUCKS WILL MANAGE INCOMING FLOWS.



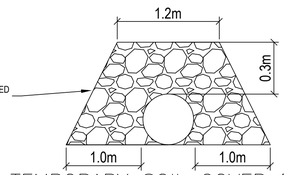
NOTE:

1. BYPASS CONNECTION FOR FUTURE REFERENCE, SEE AS–BUILT DWG. 46–2A.

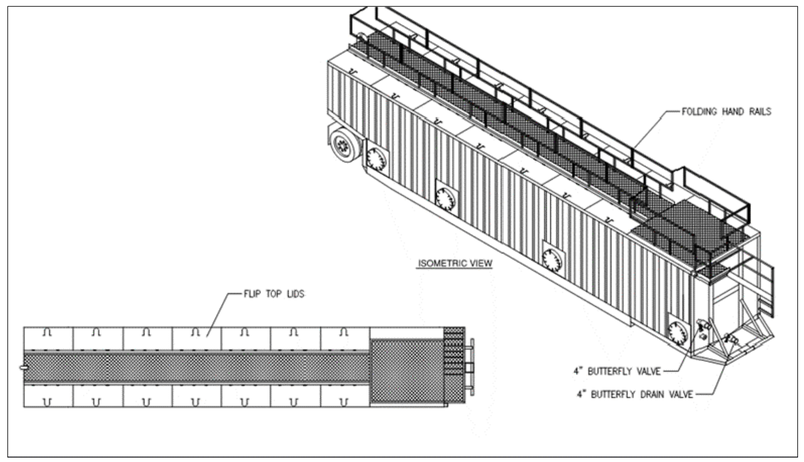
FORCEMAIN TEMPORARY CONNECTION DETAIL
N.T.S.



FORCEMAIN PERMANENT CONNECTION DETAIL
N.T.S.



TEMPORARY SOIL COVER DETAIL
N.T.S.



CITY SUPPLIED MOBILE TANK FOR REFERENCE
N.T.S

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No.	Issue	Date
A	ISSUED FOR REVIEW	2021.AUG.13
B	ISSUED FOR TENDER	2021.AUG.30
C	AS BUILT	2023.JAN.31

AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

No.	Revision	Date
1	ISSUED FOR TENDER	8-17-2021
0	ISSUED FOR REVIEW	7-28-2021

AS-BUILT

Professional Seal(s)

Drawn By:	ARL
Dwg Standards Ckd By:	
Designed By:	EAB
Design Checked By:	
Scale:	AS SHOWN

Project Title

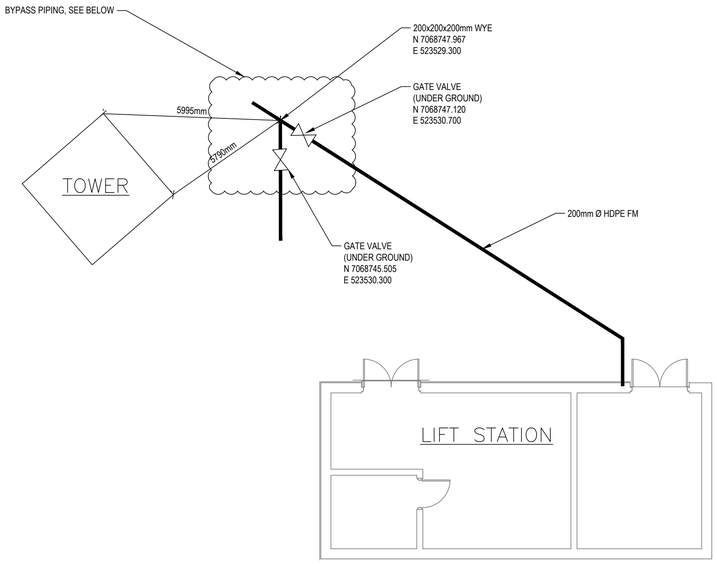
LIFT STATION #1 BYPASS

Dwg. Title

TEMPORARY LIFT STATION SITE PLAN

Project No. FRN-21005203-A0

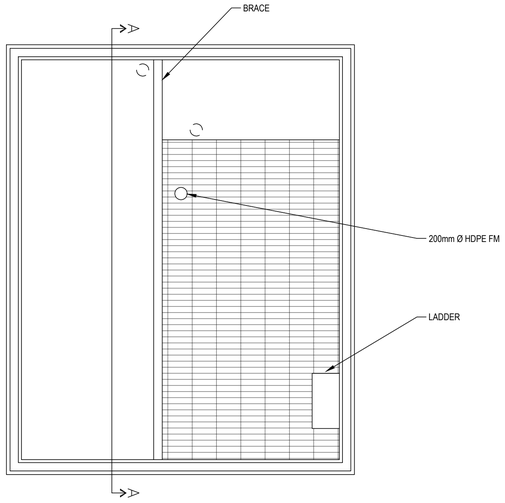
Dwg. No. **46-2** Rev. No. C



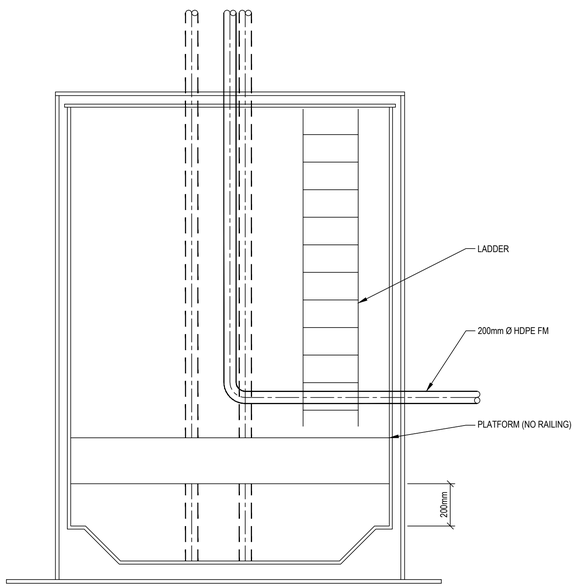
PLAN

BYPASS LINE CONNECTION FOR FUTURE REFERENCE 1:100

BYPASS PIPING



PLAN
N.T.S.



SECTION A–A
N.T.S.

LIFT STATION FLOOR PLAN
MODIFICATIONS

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No.	Issue	Date
A	AS BUILT	2023.JAN.31

AS-BUILT DRAWING

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No.	Revision	Date

AS-BUILT

Professional Seal(s)

Drawn By: DRAWN
Dwg Standards Ckd By:
Designed By: DESIGNER
Design Checked By:
Scale: AS SHOWN

Project Title

LIFT STATION #1 BYPASS

Dwg. Title

BYPASS CONNECTION AND LIFT STATION MODIFICATION DETAILS

Project No. FRN-21005203-A0

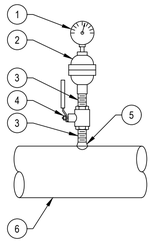
Dwg. No. **46-2A** Rev. No. A

NOTES:

1. ALL CONNECTION IN THE SUCTION LINE OF THE PUMPS ARE TO BE SEALED WITH PIPE DOPE. FOLLOW THE SEALANT MANUFACTURER'S RECOMMENDATIONS WHEN SELECTING AND APPLYING THE PIPE DOPE. THE PIPE DOPE SHOULD BE COMPATIBLE WITH THE LIQUID BEING PUMPED.
2. PUMPS MUST BE SUPPORTED OR SHIMMED TO PROVIDE FOR LEVEL OPERATION OR TO ELIMINATE VIBRATION.

KEYNOTES:

1. INSTALL OWNER SUPPLIED GORMAN RUPP SUPER T SERIES PUMP AND MOTOR, MODEL T6A3S-B/F C/W BASEPLATE AND AUTOMATIC AIR RELEASE VALVE.
2. PUMP SUCTION.
3. HORIZONTAL AIR RELEASE VALVE ASSEMBLY. VALVE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. PIPING SUPPLIED AND INSTALLED BY CONTRACTOR.
4. 150 Ø SWING CHECK VALVE C/W SLOW CLOSING.
5. 150 Ø 90° LR ELBOW, SS.
6. PRESSURE GAUGE ASSEMBLY.
7. 150 Ø PLUG VALVE.
8. 200 Ø X 150 Ø CONCENTRIC REDUCER, SS.
9. 200 Ø X 150 Ø REDUCING TEE, SS.
10. 200 Ø 90° LR ELBOW, SS.
11. SEWAGE AIR RELIEF VALVE.
12. 200 Ø BLIND FLANGE.
13. 200 Ø TEE, SS.
14. DISCHARGE CONNECTION.
15. STEEL I-BEAM PUMP SKID BY CONTRACTOR.
16. 200 Ø FLANGE x CAMLOCK ADAPTOR.
17. SUCTION CONNECTION.
18. ADJUST PUMP HEIGHT ACCORDINGLY TO RETAIN 265mm ± CLEARANCE FROM TOP OF SKID TO CENTERLINE OF SUCTION.



KEYNOTES:

1. PRESSURE GAUGE.
2. GAUGE ISOLATOR/DIAPHRAGM SEAL.
3. THREADED NIPPLE, SIZE AS REQUIRED.
4. 13mm Ø BALL VALVE.
5. 13mm Ø FNPT THREAD-O-LET.
6. CARRIER PIPE.

TYPICAL DETAIL

PRESSURE GAUGE — NOT TO SCALE

KEYNOTES:

1. STANDON MODEL C92 SADDLE CLAMP ASSEMBLY TO SUIT PIPE O.D. (C/W LINER FOR IPS-OD PVC PIPE AS APPLICABLE).
2. SCH 40 OR BETTER GALVANIZED STEEL EXTENSION PIPE OF DIAMETER TO SUIT CUPS AND OF LENGTH TO SUIT PIPE ALIGNMENT (SEE TABLE FOR EXTENSION PIPE SIZE REQUIRED).
3. CLEAN AND TOUCH UP WELD WITH COLD GALVANIZING PRIMER AND PAINT TO ASTM A780.
4. SHIMS AS REQUIRED TO SET ASSEMBLY LEVEL AND PLUMB.
5. GALVANIZED OR BETTER NUTS, WASHER AND STUDS TO SUIT.
6. HEIGHT VARIES.
7. PIPE DIAMETER AND MATERIAL VARIES.
8. BASE PLATES TO CONFORM TO STANDON'S REQUIREMENTS FOR SUPPORTED PIPE SIZE.
11. STANDON MODEL S89 FLANGE SUPPORT ASSEMBLY TO SUIT PIPE FLANGE DRILLING CONFORMING TO ANSI B16.1 CLASS 125/150.

SUPPORTED PIPE DIA.	BASE PLATE SIZE	EXTENSION PIPE SIZE	MIN. CLEARANCE
50 TO 75	100 x 150	50 SCH 40	180mm
100 TO 300	200 x 200	50 SCH 40	180mm
350 TO 400	200 x 200	75 SCH 40	240mm
450 TO 600	300 x 300	100 SCH 40	250mm
750 TO 900	380 x 380	150 SCH 40	250mm

NOTE:

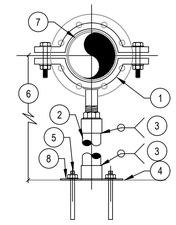
FOR ANY SUPPORT W/ CLEARANCE TO FLOOR MORE THAN 1830mm USE 100mm OR LARGER SCH 40. NOT ALL SUPPORTS APPLY.

SUPPORTED PIPE DIA.	BASE PLATE SIZE	EXTENSION PIPE SIZE	MIN. CLEARANCE
50 TO 300	100 x 150	50 SCH 40	180mm
350 TO 400	200 x 200	75 SCH 40	240mm
450 TO 600	300 x 300	100 SCH 40	250mm

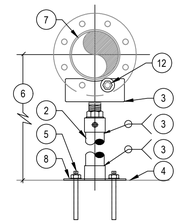
THIS SCHEDULE APPLIES TO FP05 FLAT PLATE SUPPORT, S92M (MODIFIED) SUPPORT, FLANGE CRADLE AND S89 FLANGE SUPPORT ONLY.

NOTE:

FOR ANY SUPPORT W/ CLEARANCE TO FLOOR MORE THAN 1830mm USE 100mm OR LARGER SCH 40.



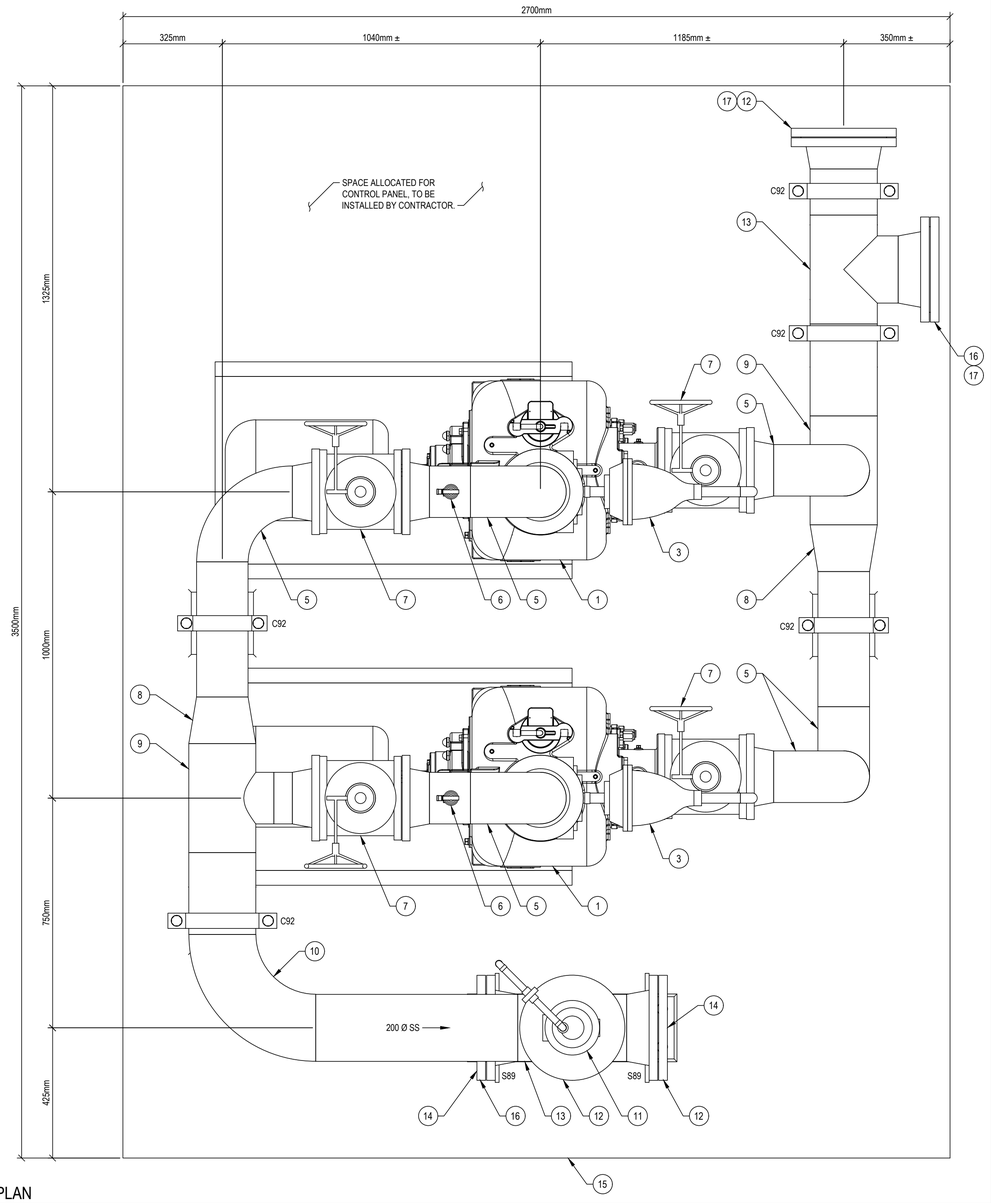
C92



S89

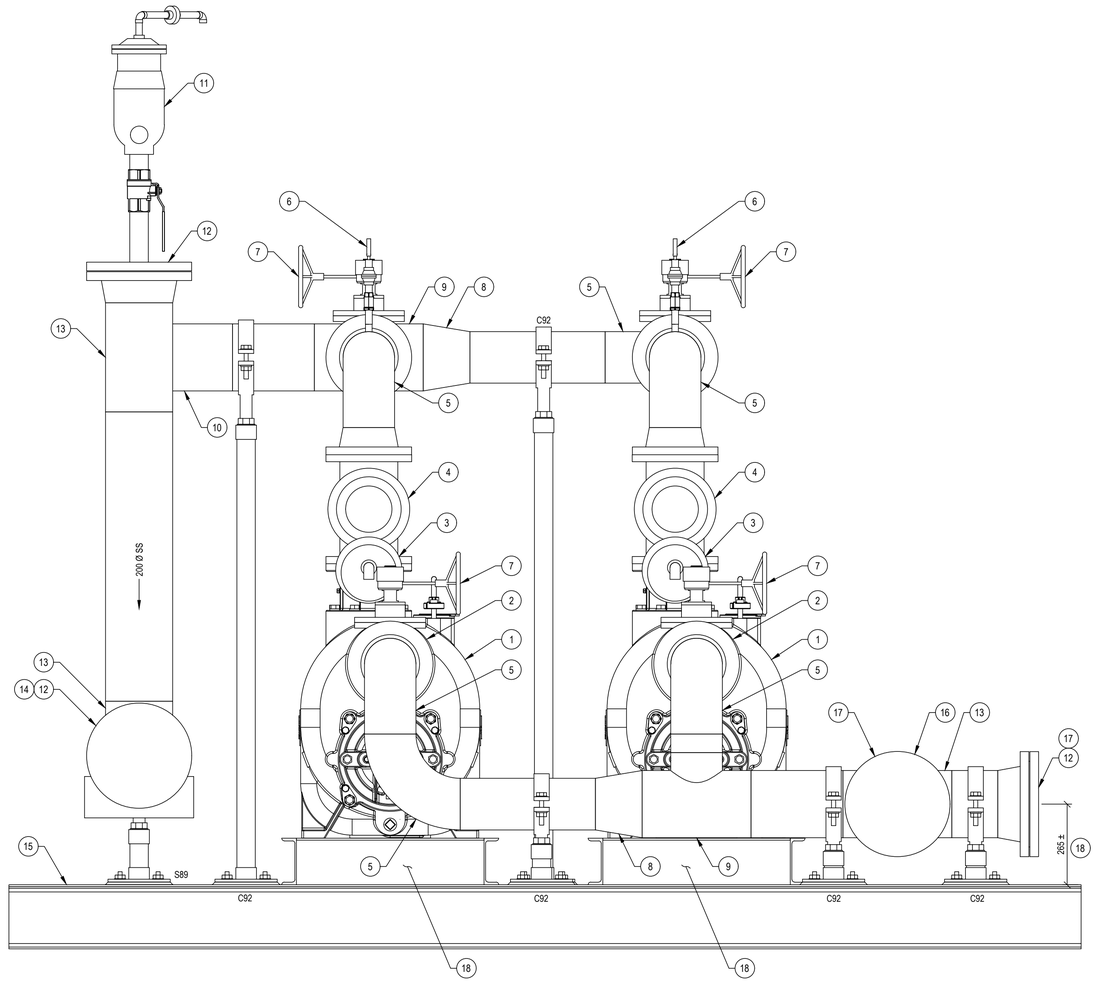
TYPICAL DETAIL

ADJUSTABLE FLOOR MOUNTED PIPE SUPPORTS — NOT TO SCALE



PLAN

TEMPORARY LIFT STATION — 1:10



A

SECTION

TEMPORARY LIFT STATION — 1:10

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No.	Issue	Date
A	ISSUED FOR REVIEW	2021.AUG.13
B	ISSUED FOR TENDER	2021.AUG.30
C	AS BUILT	2023.JAN.31

AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

No.	Revision	Date

AS-BUILT

Professional Seal(s)

Drawn By:	ARL
Dwg Standards Ckd By:	
Designed By:	EAB/JFP
Design Checked By:	
Scale:	AS SHOWN

Project Title

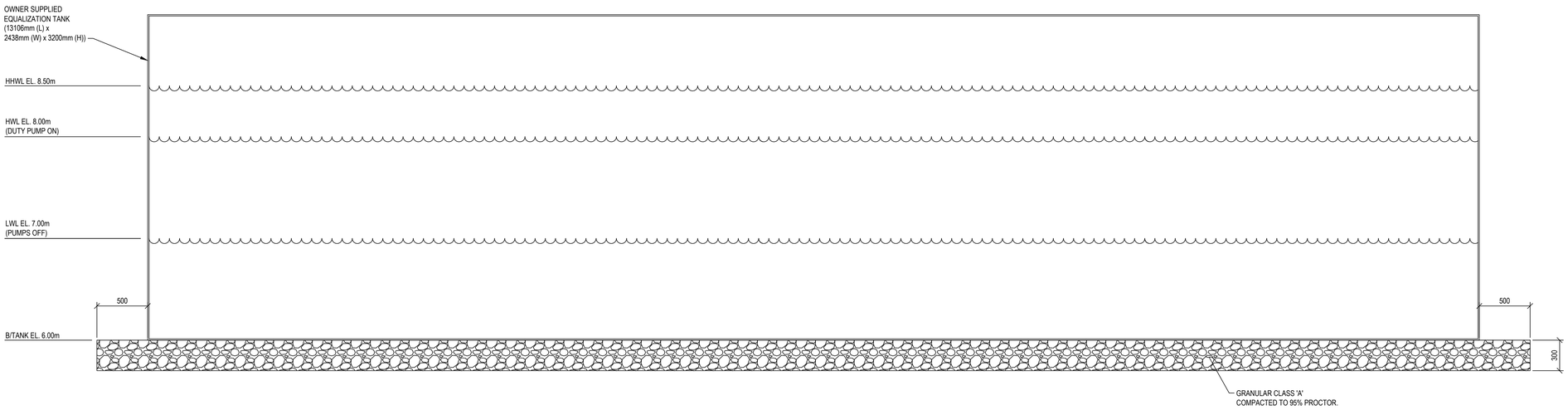
LIFT STATION #1 BYPASS

Dwg. Title

TEMPORARY LIFT STATION PLAN AND SECTION

Project No. FRN-21005203-A0

Dwg. No. **46-3** | Rev. No. C



A
4-2
SECTION
TEMPORARY EQUALIZATION TANK

1:25

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No.	Issue	Date
A	ISSUED FOR REVIEW	2021.AUG.13
B	ISSUED FOR TENDER	2021.AUG.30
C	AS BUILT	2023.JAN.31

NOTES:

1. CONTRACTOR TO SUPPLY AND INSTALL LEVEL REGULATOR FLOAT SUPPORT BRACKETS/SPACERS MOUNTED TO TANK AS REQUIRED, OR AS DIRECTED BY ENGINEER.
2. ANY DAMAGED COATING IS TO BE TOUCHED UP WITH EPOXY COATING. FOLLOW MANUFACTURERS RECOMMENDATIONS WHEN APPLYING.

AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

No.	Revision	Date

AS-BUILT

Professional Seal(s)

Drawn By: ARL

Dwg Standards Ckd By:

Designed By: EAB/JFP

Design Checked By:

Scale: AS SHOWN

Project Title

LIFT STATION #1 BYPASS

Dwg. Title

TEMPORARY EQUALIZATION TANK SECTION

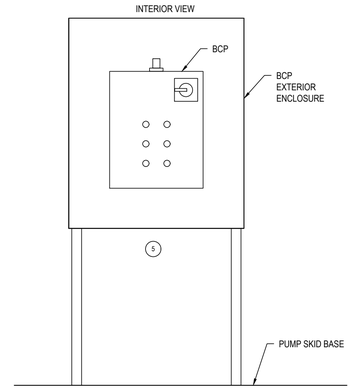
Project No. FRN-21005203-A0

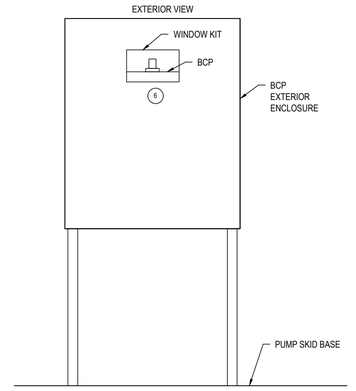
Dwg. No. **46-4**

Rev. No. C

 A1

SITE PLAN





1 ELEVATION

BYPASS PUMP CONTROL PANEL NOT TO SCALE

LEGEND:

- DIRECT CONNECTION AS INDICATED
- HOME RUN TO PANEL
- WIRING IN CONDUIT
- 4X — 20A, 120VAC, SPLIT-WIRED, DUPLEX RECEPTACLE ASSEMBLY, NEMA 4X RATED.
- CIRCUIT BREAKER, SIZE AS INDICATED
- BCP — BYPASS PUMP CONTROL PANEL. 600V, 3PH, 2x20HP DUPLEX TRIPLEX PUMP CONTROLLER. NEMA 1 INTERIOR ENCLOSURE WITH HEATER. NEMA 4X STAINLESS STEEL EXTERIOR ENCLOSURE WITH VIEWING WINDOW.
- FS — FLOAT SWITCH, SUPPLIED BY DIVISION 46.
- TPX — TRASH PUMP, "X" DENOTES PUMP IDENTIFIER, SUPPLIED BY DIVISION 46.

KEYNOTES:

1. BYPASS SYSTEM POWER AND CONTROL CABLES TO BE TECK 90. EXTERIOR PORTION OF CABLE RUNS BETWEEN BUILDING AND BYPASS TANK TO BE DIRECT BURIED AT A DEPTH OF 100mm BELOW FINISHED GRADE. REFER TO DRAWING 26-2 FOR CABLING REQUIREMENTS.
2. REFER TO DRAWING 46-2 FOR EXACT PUMP LOCATIONS.
3. FLOAT SWITCH CABLES SUPPLIED WITH FLOAT SWITCH. FLOAT SWITCHES SUPPLIED BY DIVISION 46.
4. REFER TO BYPASS CONTROL PANEL SHOP DRAWINGS FOR ALL CABLE TERMINATION DETAILS.
5. PROVIDE STEEL SUPPORT STRUCTURE FOR PANEL BCP AND CONNECT TO PUMP SKID. PANEL HEIGHT TO BE 1200mm ABOVE BOTTOM OF PUMP SKID. PUMP SKID SUPPLIED BY DIVISION 46.
6. EXTERIOR ENCLOSURE WINDOW KIT TO BE INSTALLED SUCH THAT ALARM BEACON OF BYPASS PUMP CONTROL PANEL IS VISIBLE THROUGH WINDOW.
7. RECEPTACLE CABLING TO BE BURIED WITH AND FOLLOW TEMPORARY TRASH PUMPS DISCHARGE PIPING TO LIFT STATION BUILDING. REFER TO DRAWING 46-2 FOR ADDITIONAL INFORMATION REGARDING CABLE PATHWAY AND DISTANCES.

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No.	Issue	Date
A	ISSUED FOR REVIEW	2021.AUG.13
B	ISSUED FOR TENDER	2021.AUG.30
C	AS BUILT	2023.JAN.31

GENERAL NOTE:

1. ITEMS IN GREY ARE EXITING OR SUPPLIED BY OTHERS.

SUBSCRIPTS:

4X NEMA 4X RATED

AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

No.	Revision	Date

AS-BUILT

Professional Seal(s)

Drawn By:	MRB
Dwg Standards Ckd By:	
Designed By:	PGH
Design Checked By:	
Scale:	1:50

Project Title

LIFT STATION #1 BYPASS

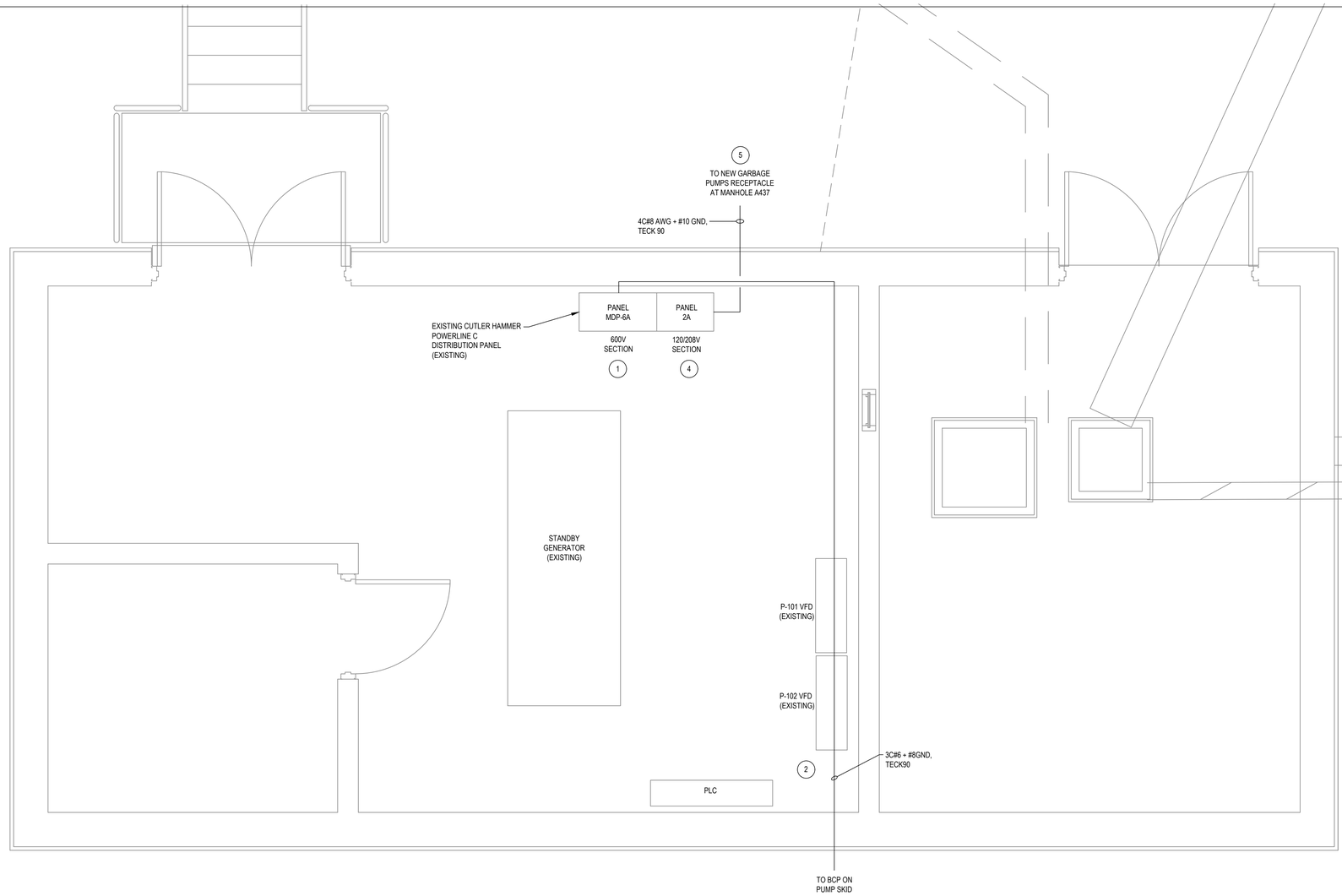
Dwg. Title

TEMPORARY LIFT STATION ELECTRICAL SITE PLAN

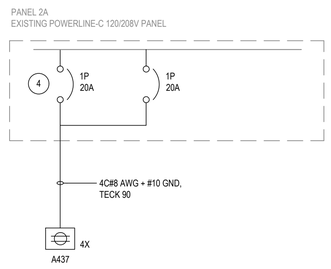
Project No. FRN-21005203-A0

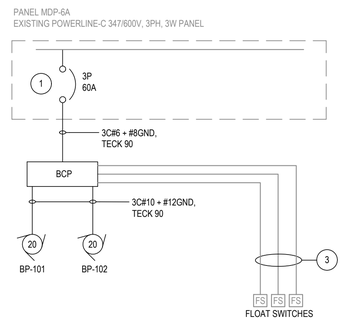
Dwg. No. **26-1**

Rev. No. C



FLOOR PLAN 1:50





SINGLE LINE DIAGRAMS NOT TO SCALE

GENERAL NOTE:

1. ITEMS IN GREY ARE EXITING.

KEYNOTES:

1. INSTALL NEW 3P, 600V BREAKER IN EXISTING EATON POWERLINE "C" DISTRIBUTION PANEL. BREAKER TYPE TO MATCH EXISTING, SIZE AS INDICATED ON SINGLE LINE DIAGRAM.
2. CABLE TO BE ROUTED UNDER EXISTING VFD PANELS AND OUT THROUGH EXTERIOR WALL. SEE DRAWING 26-1 FOR ADDITIONAL DETAILS.
3. FLOAT SWITCH CABLES SUPPLIED WITH FLOAT SWITCHES. FLOAT SWITCHES SUPPLIED BY DIVISION 44.
4. INSTALL TWO (2) NEW 20A-1P BREAKERS IN CIRCUITS 35 AND 37 OF EXISTING 120/208V DISTRIBUTION PANEL.
5. REFER TO DRAWINGS 26-1 AND 46-2 FOR ADDITIONAL WIRING DETAILS AND INSTRUCTIONS.

NOTES

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C	AS BUILT	2023.JAN.31

AS-BUILT DRAWING

AS-BUILT DRAWING INFORMATION PROVIDED BY NUNAVUT EXCAVATING LTD. TO EXP SERVICES INC. NO FIELD VERIFICATION WAS EXECUTED BY EXP.

No.	Revision	Date

AS-BUILT

Professional Seal(s)

Drawn By:	MRB
Dwg Standards Ckd By:	
Designed By:	PGH
Design Checked By:	
Scale:	AS SHOWN

Project Title

LIFT STATION #1 BYPASS

Dwg. Title

TEMPORARY LIFT STATION ELECTRICAL DETAILS

Project No. FRN-21005203-A0

Dwg. No. **26-2** Rev. No. C