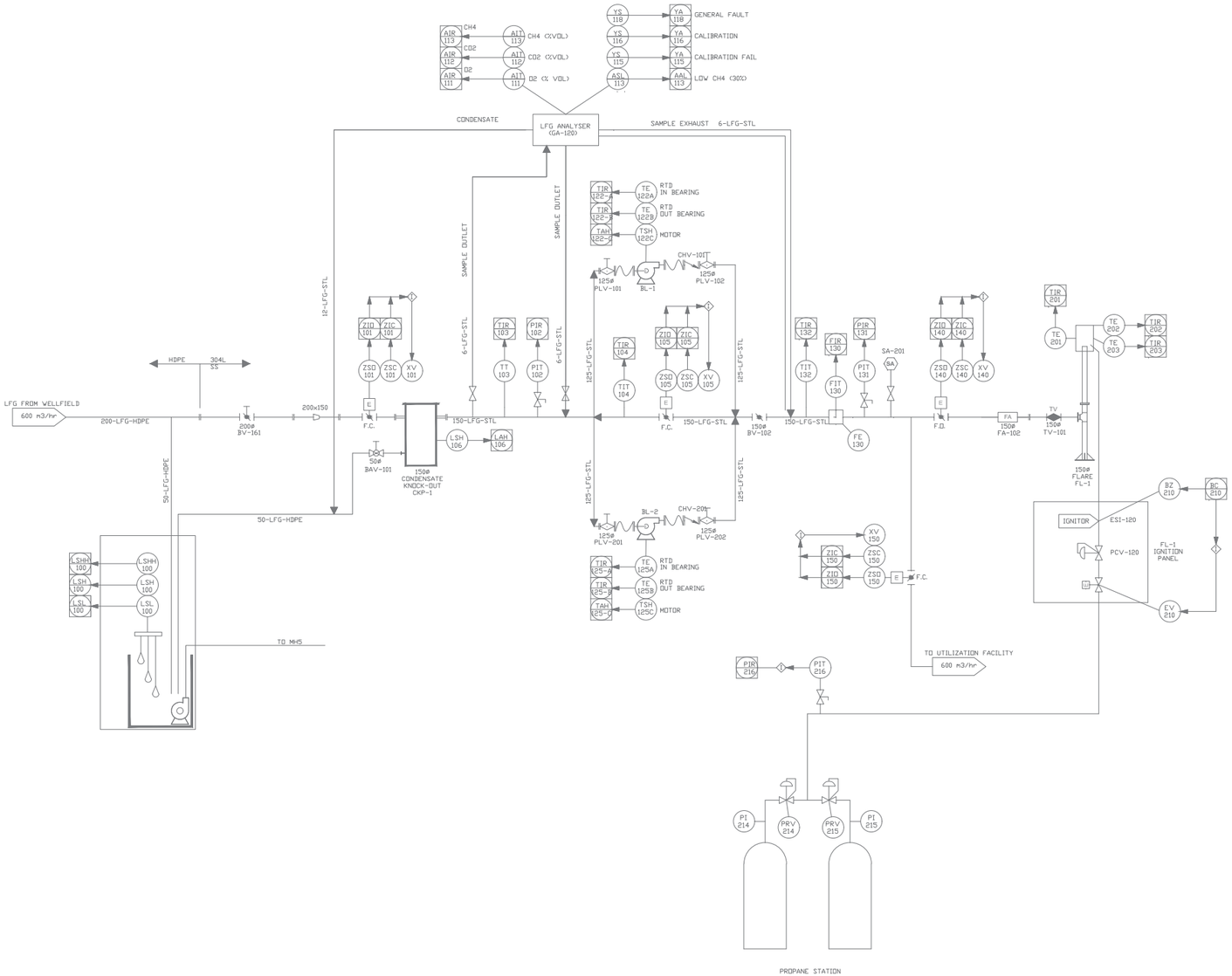


LEGEND

SYMBOLS

- LFG LINE
- CONDENSATE LINE
- PROPANE SUPPLY LINE
- HEAT TRACE
- SAMPLE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- PLUG VALVE
- PRESSURE REGULATED VALVE
- THERMAL VALVE
- MANUAL VALVE ACTUATOR
- ELECTRIC ACTUATOR
- SOLENOID
- SAMPLE PORT
- FLOW METER
- BLIND FLANGE
- BLOWER
- FLAME ARRESTOR
- REDUCER
- FLEX CONNECTOR
- FLOAT SWITCH
- FIELD MOUNTED INSTRUMENT
- PANEL MOUNTED INSTRUMENT
- HMI SIGNAL
- PLC SIGNAL
- PANEL MOUNTED LIGHT
- INTERLOCK

PIPE SIZE AND MATERIAL

PIPE DIAMETER (mm) – 150 – LFG – HDPE – PIPE MATERIAL / COMMODITY

CISP	CAST IRON SOLID PIPE
CLDI	CEMENT LINED DUCTILE IRON
CLSTL	CEMENT LINED STEEL
CU	COPPER
HDPE	HIGH DENSITY POLYETHYLENE
FRP	FIBREGLASS REINFORCED PLASTIC
GCS	GALVALNIZED CARBON STEEL
PVC	POLYVINYL CHLORIDE
SST	STAINLESS STEEL
STL	STEEL

FLOW STREAM IDENTIFICATION

AHP	AIR, HIGH PRESSURE
AI	AIR, INSTRUMENT
ALP	AIR, LOW PRESSURE
BYP	BYPASS
CD	CARBON DIOXIDE GAS
CO	CONDENSATE
D	DRAIN (SANITARY)
DG	DIGESTOR GAS
DIW	DIONIZED WATER
DW	DISTILLED WATER
G	NATURAL GAS
H	HYDROGEN GAS
LFG	LANDFILL GAS
M	METHANE GAS
N	NITROGEN GAS
OXY	OXYGEN GAS

STATUS
ISSUED FOR TENDER

NUM	DATE	APR	DESCRIPTION
0	OCT 25/23	ML	ISSUED FOR TENDER
REVISIONS			
D	AUG 11/23	ML	ISSUED FOR REVIEW - 99%
C	APR 28/21	ML	ISSUED FOR REVIEW - 95%
B	APRIL 21/21	ML	ISSUED FOR REVIEW - 90%
A	APRIL 8/21	ML	ISSUED FOR REVIEW - 60%
NUM	DATE	APR	DESCRIPTION
DRAWING STATUS			

PERMIT TO PRACTICE TETRA TECH CANADA INC.

PERMIT NUMBER: 1001972

PERMIT

2023-12-08

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M.E. LEFEBVRE
#26071

PROFESSIONAL SEAL

CLIENT

REGIONAL DISTRICT OF NANAIMO

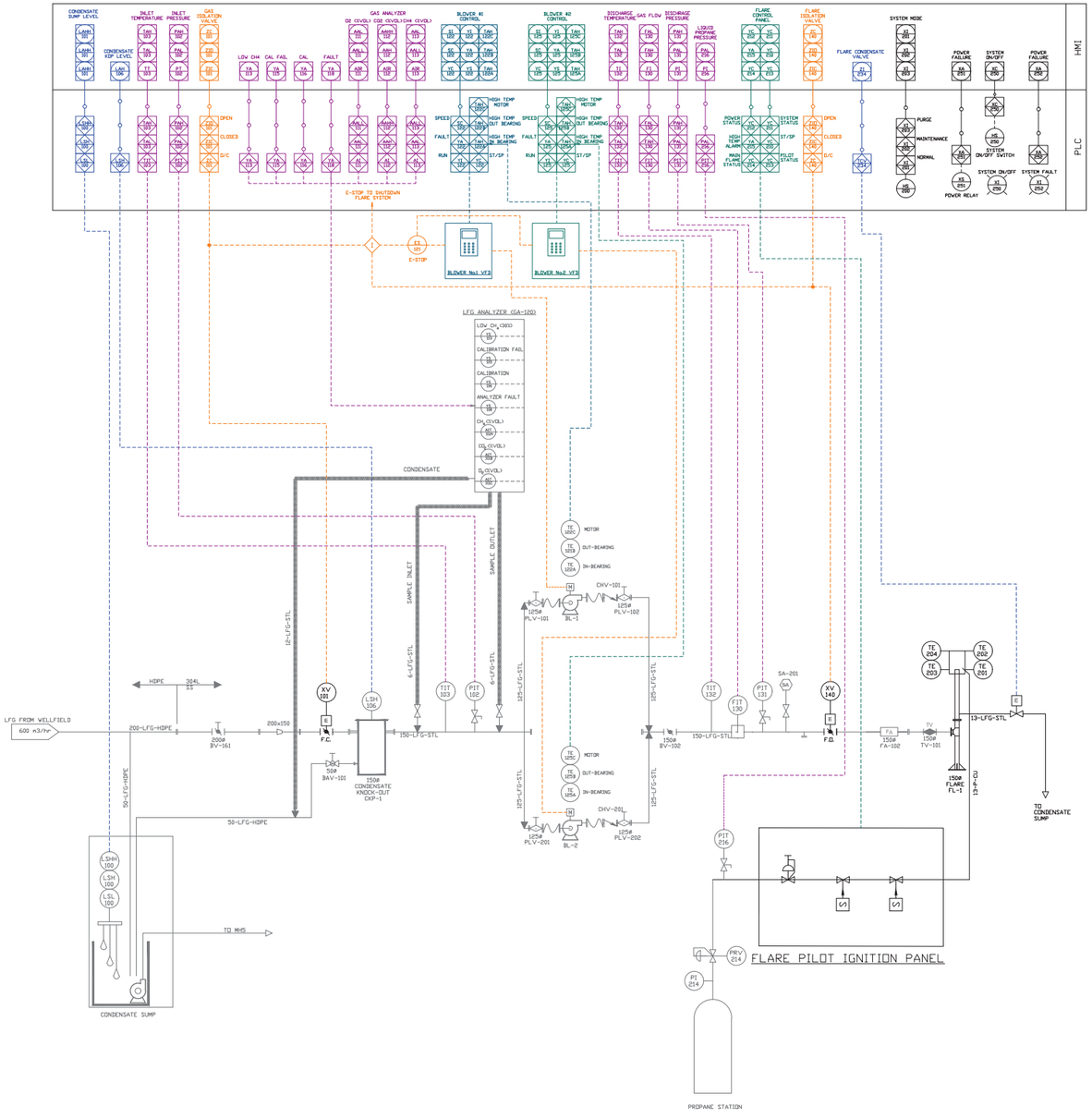
TETRA TECH

LFG UTILIZATION CONTROL PLANT AND FLARE UPGRADE NANAIMO REGIONAL LANDFILL

EXISTING PIPE & INSTRUMENTATION DIAGRAM

PROJECT No.	OFFICE	DES	CKD	REV	DRAWING
SWM.SWOP04043-01	EDM	JL	ML	0	E19
DATE: October 18, 2023	SHEET No. 19 of 20	DWN JL	APP ML	STATUS D	

Q:\Edmonton\Drafting\00_MASTER PROJECT BASE PLANS\RDN - Nanaimo Regional Landfill\Production\SWM.SWOP04043-01_RDN Flare Upgrade\FTTSWM.SWOP04043-01_P&ID.dwg [E19] October 27, 2023 - 3:24:00 pm (BY: LING, JOHN)



LEGEND

SYMBOLS

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PERMIT NUMBER: 1001972

PERMIT

2023-12-08
PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M.E. LEFEBVRE #26071

PROFESSIONAL SEAL

CLIENT

REGIONAL DISTRICT OF NANAIMO

TETRA TECH

LFG UTILIZATION CONTROL PLANT AND FLARE UPGRADE
NANAIMO REGIONAL LANDFILL

PROPOSED PIPE & INSTRUMENTATION DIAGRAM

PROJECT No.	OFFICE	DES	CKD	REV	DRAWING
SWM.SWOP04043-01	EDM	JL	ML	0	E20
DATE: October 18, 2023	SHEET No. 20 of 20	DWN JL	APP ML	STATUS D	

Q:\Edmonton\Drafting\00_MASTER PROJECT BASE PLANS\RDN - Nanaimo Regional Landfill\Production\SWM.SWOP04043-01_RDN Flare Upgrade\IFT\SWM.SWOP04043-01_P&ID.dwg [E20] October 27, 2023 - 3:24:02 pm (BY: LING, JOHN)