

SYMBOL LEGEND	
DISPLAY	DESCRIPTION
	POWER WIRING
	LOW VOLTAGE WIRING
	CONTROL WIRING
	REFRIGERANT PIPING
	EXTERNAL HEAT ADAPTER
	RELAY
	TRANSFORMER
	DISCONNECT
	REDUCER
	THERMOSTAT
	HYDRONIC WALL HEATER CONTROL VALVE

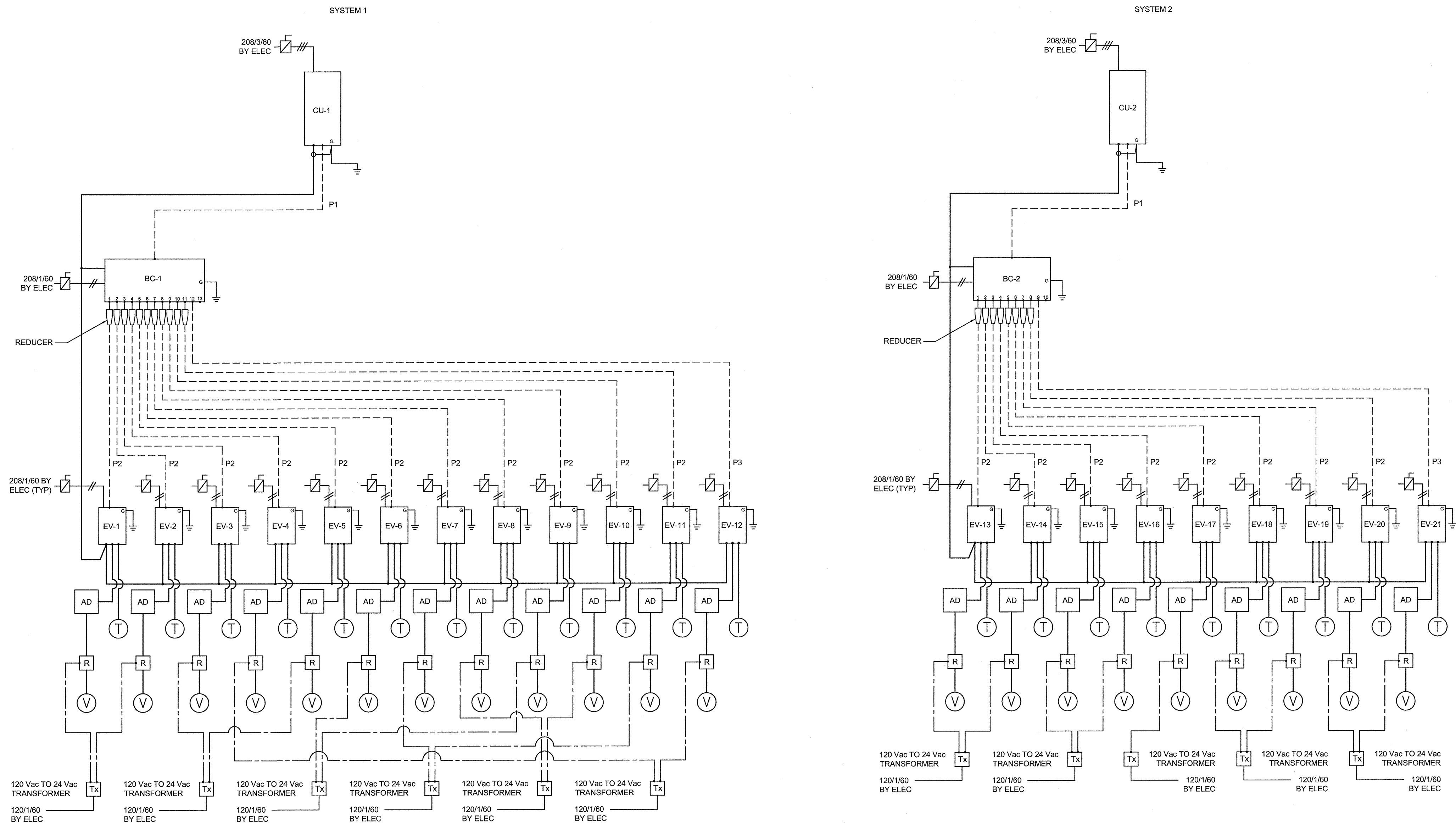
PIPE SIZING LIST		
TAG	LIQUID	GAS
P1	3/4	7/8
P2	1/4	1/2
P3	3/8	5/8

#### SEQUENCE

- CONDENSING UNIT MODE IS DETERMINED BY CONTROLLER IN CONDENSING UNIT.
- THE ROOM TEMPERATURE SENSOR DETERMINES WHEN THE EV UNIT IS IN HEATING OR COOLING MODE. IN HEATING MODE THE EV UNIT IS THE FIRST STAGE OF HEATING. WHEN THE TEMPERATURE DROPS TO 2ND STAGE HEAT THE ADAPTER, AD, SENDS AN OUTPUT TO ENERGIZE THE RELAY WHICH OPENS THE HEATING VALVE(S). THE NUMBER OF POLES ON THE HEATING RELAY IS DETERMINED BY THE NUMBER OF CONTROL VALVES IN THE SPACE.

#### NOTES:

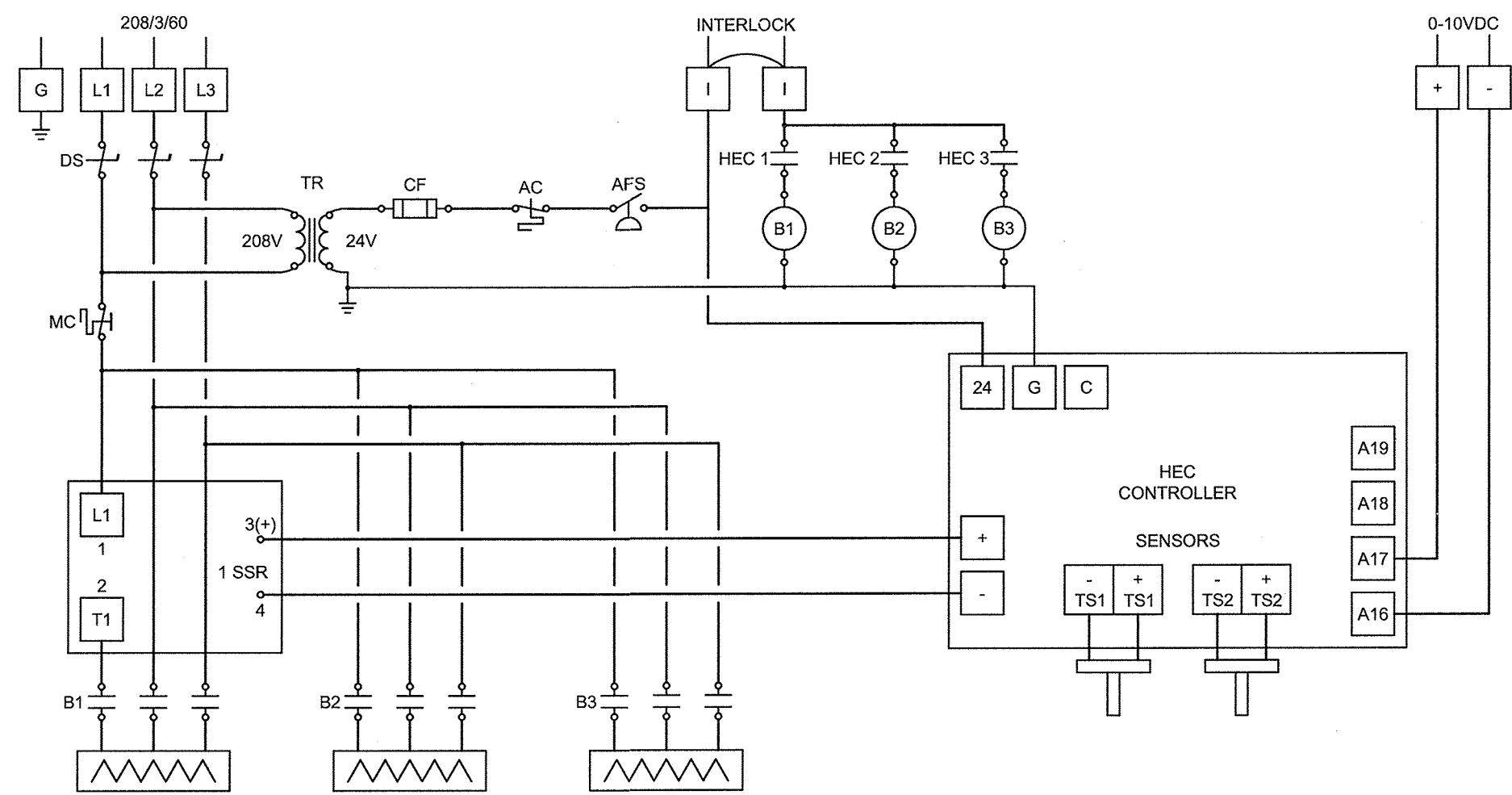
- ALL LOW VOLTAGE WIRING TO BE SUPPLIED AND INSTALLED BY DIV 23 CONTRACTOR.
- SEE CONTROLS PLAN FOR DEVICE DESCRIPTION.



NEW HEATING CONTROLS SCHEMATIC

3  
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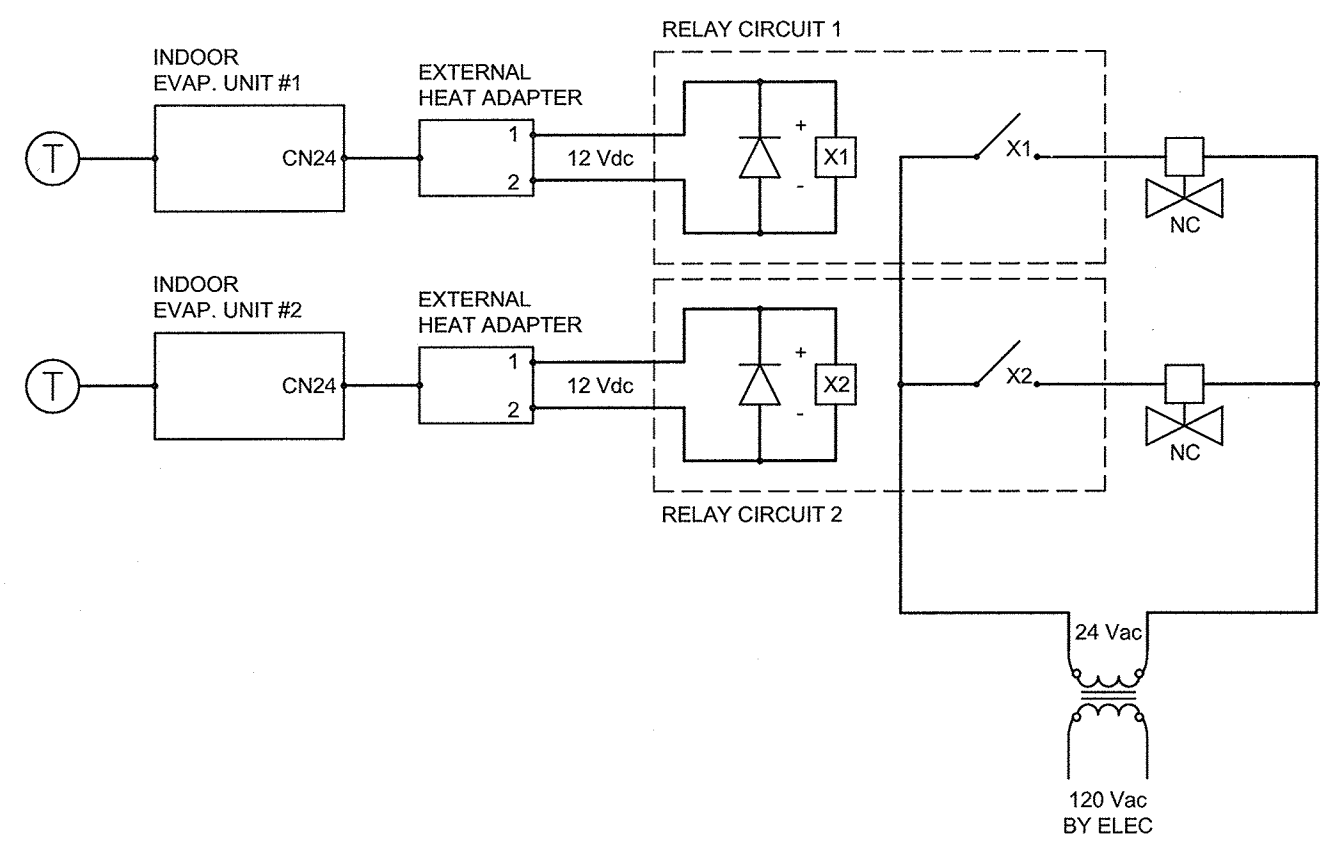
SYMBOL LEGEND	
DISPLAY	DESCRIPTION
	DS - DISCONNECT SWITCH
	AC - AUTOMATIC CUTOUT
	MC - MANUAL CUTOUT
	AFS - AIR FLOW SWITCH
	CONTACTOR COIL
	HEATING ELEMENT
	TR - TRANSFORMER
	CONTACT NORMALLY OPEN
	FUSE



NEW DUCT HEATER CONTROL DETAILS

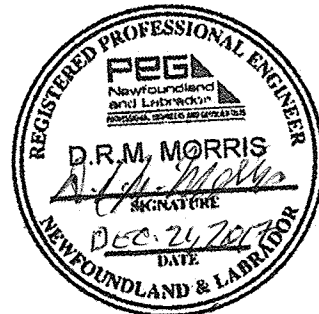
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SYMBOL LEGEND	
DISPLAY	DESCRIPTION
	THERMOSTAT
	HYDRONIC WALL HEATER CONTROL VALVE
	TRANSFORMER
	RELAY CONTACTOR COIL
	RELAY SWITCH
	DIODE



NEW HEATING CONTROL DETAILS (TYPICAL)

1  
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PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
SNC-LAVALIN Inc.  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEGNL N0458  
which is valid for the year 2017.  
ENGINEER IN RESPONSIBLE CHARGE  
*D.R.M. Morris*

C01	ISSUED FOR TENDER	12/21/2017
revisions		date
project		projet

SAR STATION  
REFURBISHMENT  
ST. ANTHONY  
LIFEBOAT STATION

CONTROLS SCHEMATICS  
&  
DETAILS

designed	D.M.	conçu
date	2017-11-17	
drawn	D.B.	dessiné
date	2017-11-17	
approved	MK	approuvé
date	2017-11-17	
Tender	D.B.	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
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drawing no.	no. du dessin	
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