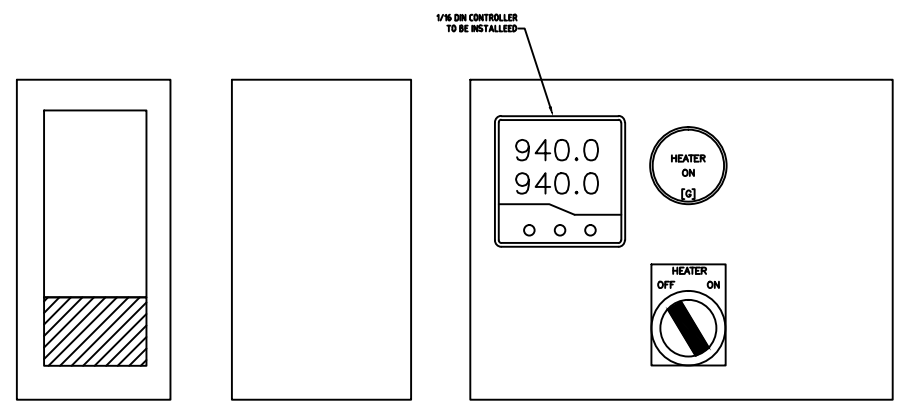


SET NO	UNIT NO	UNIT PART # SEE DWG JARDIN FOR DESCRIPTION	AL RELAY / HEATER	SECURITY TYPE	VSD	IC	DNE NO.	NOTES	WAVE PLATES LAYOUT				
									LINE 1	LINE 2	LINE 3	LINE 4	
1	B	INCOMING LUGS							MAIN	LUG SECTION			
1	G	EN24C30		K-SWITCH	100A MJ	100	WD-1		H-2602	SCRUBBER	INJECTION		
1	H	EN24C30		K-SWITCH	100A MJ	100	WD-1		H-2601	REACTOR	INJECTION		
2	C	EN24C18		K-SWITCH	30A MJ	100	WD-1		H-2603	QUENCH	INJECTION		
2	F	EN24C18		K-SWITCH	30A MJ	100	WD-1		H-3201	SCRUBBER	VESSEL		
2	J	EN24C18		K-SWITCH	30A MJ	100	WD-1		H-4301	REACTOR	WATER WALL		
3	C	SPH0018	FDR	FUSE	K-SWITCH	100A MJ	100		PB1101 A/B	CO2 BULK TANK	VAPORIZER		
3	E	SPH0012	FDR	FUSE	K-SWITCH	80A MJ	100		H-1102	CO2 COMPRESSOR	OUTLET HEATER		



REV	DATE	DESCRIPTION	DRAWN	CKD	APPD	
1	2017/03/24	ISSUE FOR TENDER	RCM			
0	2015/10/02	ISSUE FOR CLIENT REVIEW	RCM			
No		REVISION DESCRIPTION	DATE (Y/M/D)	DRAWN	CKD	APPD

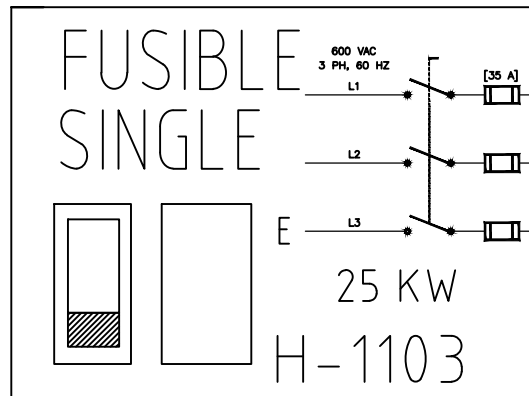
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2	
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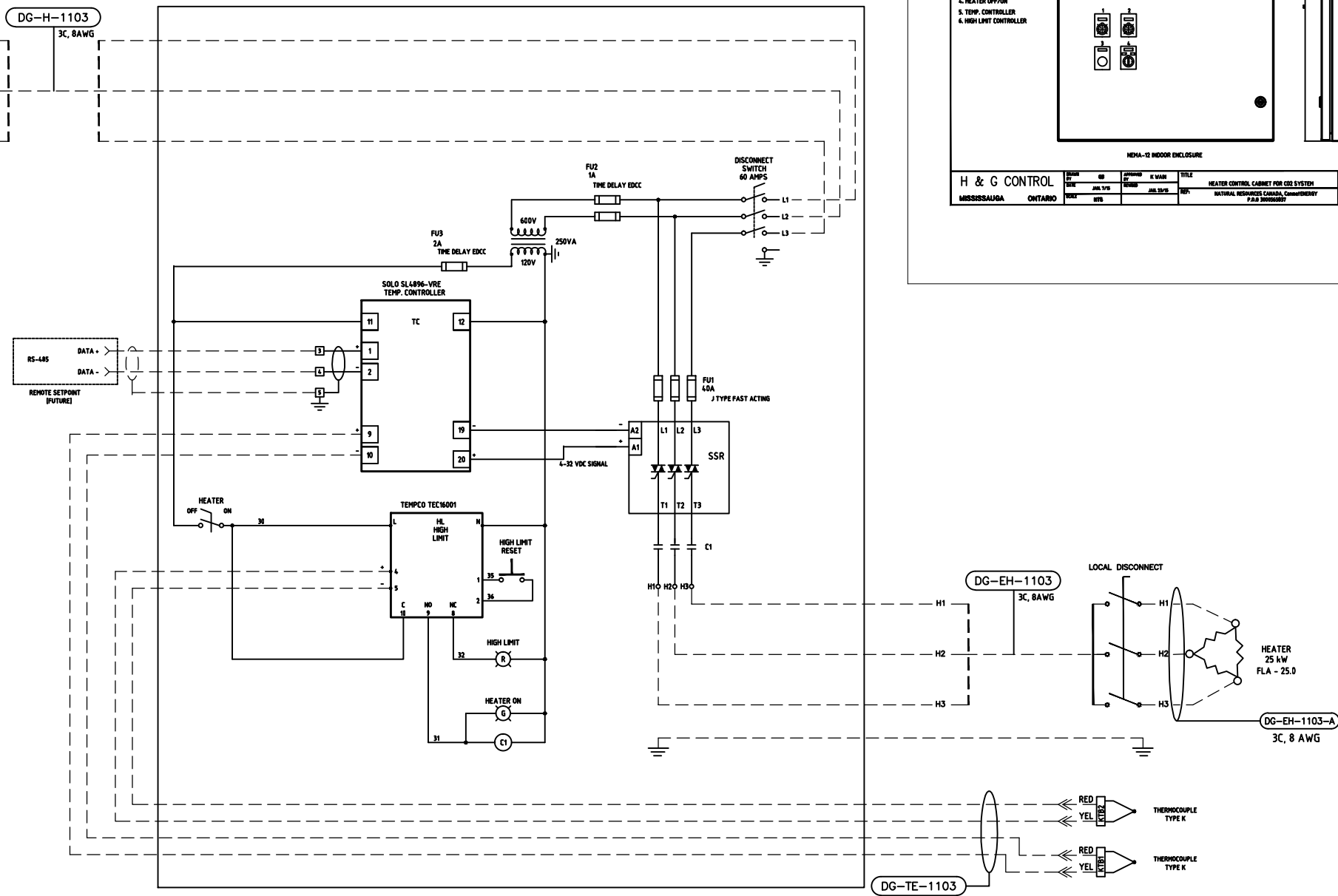
CLIENT: **Canada**
Natural Resources Canada
CANMET Energy Technology Center

DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED:
APPROVED:
DATE: 2016/11/11
SCALE: NONE

PROJECT: NRCAN CANMET DCSG/HIPROX				
TITLE: ELECTRICAL DCSG-HIPROX MCC # 1 CABINET LAYOUT				
USER: E	PROJECT: DCSG	BUILDING: BCC4	DRAWING: 800	REV: 1

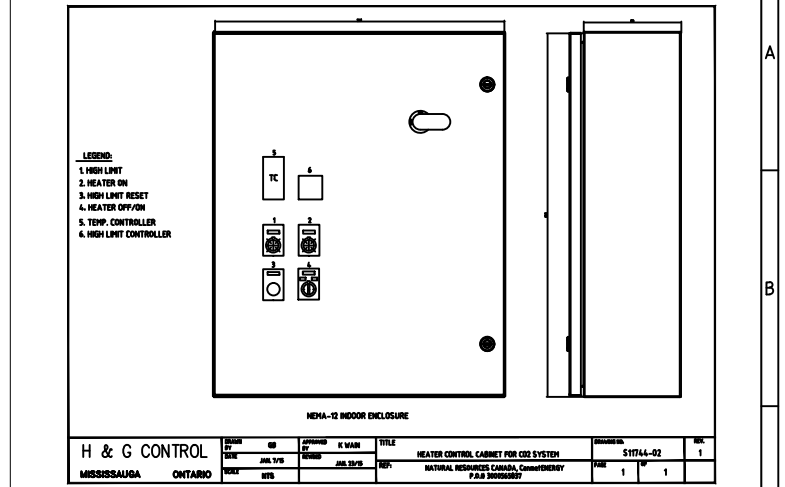


C02 COMPRESSOR OUTLET
HEATER CABINET



TERMINAL LEGEND

XXX	CABINET TERMINAL BLOCK
⊠	RELAY/TIMER TERMINAL
⊞	DEVICE TERMINAL
---	EXTERNAL WIRING
---	INTERNAL WIRING
---	CABLE



NO	REVISION DESCRIPTION	DATE (Y/M/D)	DRAWN	CKD	APPD
1	ISSUE FOR TENDER	2017/03/24	RCM		
0	ISSUE FOR CLIENT REVIEW	2016/12/14	RCM		

CLIENT

Natural Resources Canada
Ressources naturelles Canada
CANMET Energy Technology Center
Centre de la technologie de l'énergie de CANMET

DESIGNED
R. McNAIR

DRAWN
R. McNAIR

CHECKED

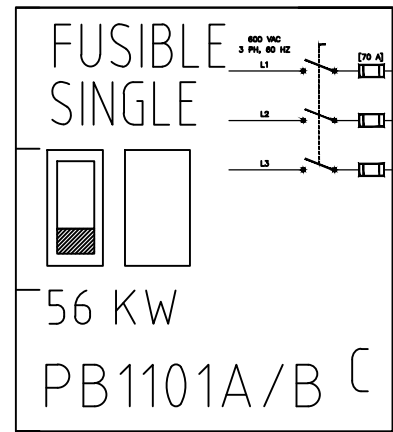
APPROVED

DATE
2016/11/11

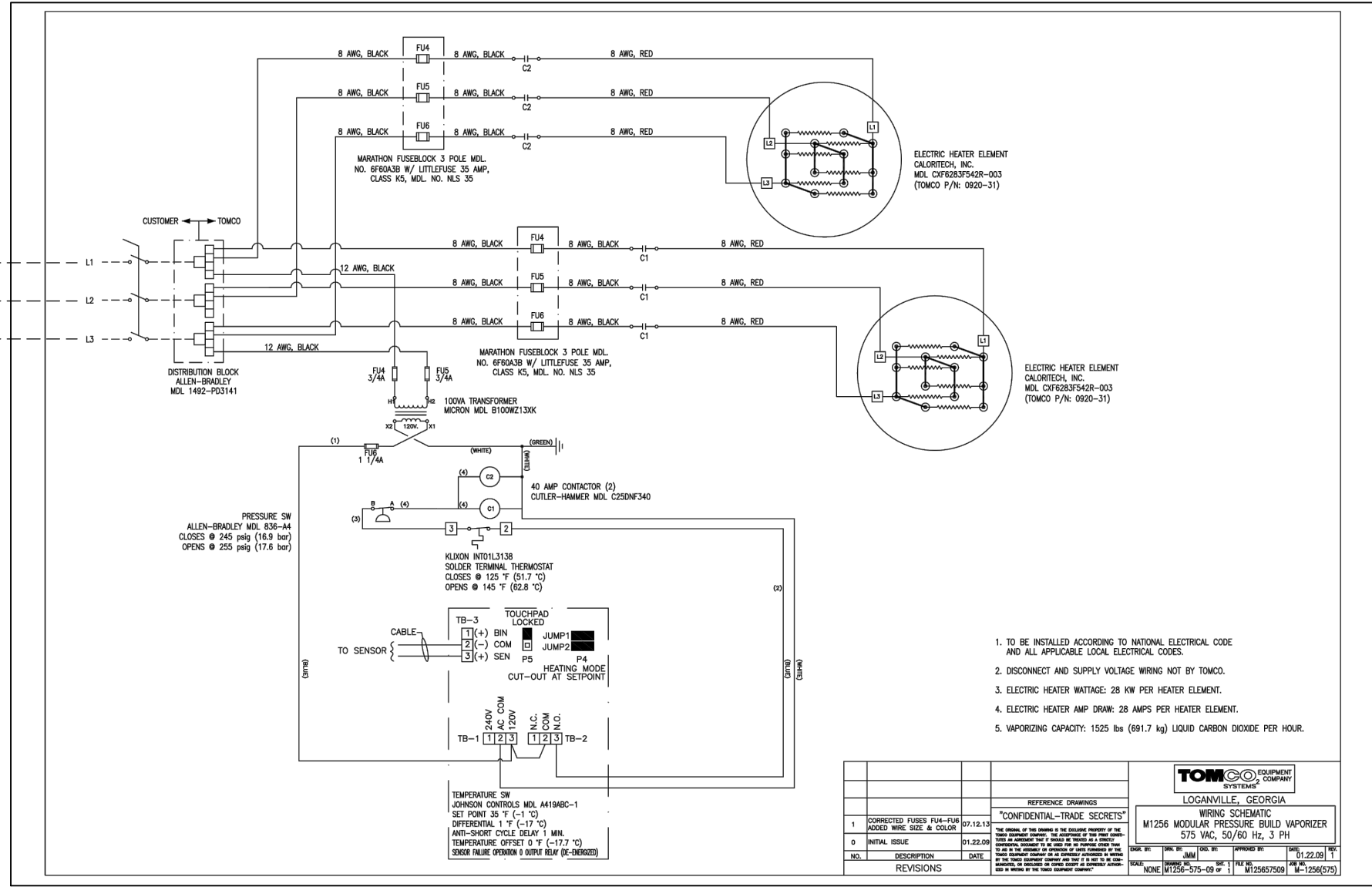
SCALE
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PROJECT NRCAN CANMET DCSG/HIPROX				
TITLE ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING H-1103 CO2 COMP OUTLET HEATER				
USER	PROJECT	BUILDING	DRAWING	REV.
E	DCSG	BCC4	801	1

CO2 BULK TANK VAPOURIZER
CABINET



DC-EH-1101
3C, 4AWG



1. TO BE INSTALLED ACCORDING TO NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL ELECTRICAL CODES.
2. DISCONNECT AND SUPPLY VOLTAGE WIRING NOT BY TOMCO.
3. ELECTRIC HEATER WATTAGE: 28 KW PER HEATER ELEMENT.
4. ELECTRIC HEATER AMP DRAW: 28 AMPS PER HEATER ELEMENT.
5. VAPOURIZING CAPACITY: 1525 lbs (691.7 kg) LIQUID CARBON DIOXIDE PER HOUR.

CORRECTED FUSES FU4-FU6 ADDED WIRE SIZE & COLOR		07.12.13	1
INITIAL ISSUE		01.22.09	0
NO.	DESCRIPTION	DATE	
REVISIONS			

TOMCO EQUIPMENT COMPANY
LOGANVILLE, GEORGIA

WIRING SCHEMATIC
M1256 MODULAR PRESSURE BUILD VAPOURIZER
575 VAC, 50/60 Hz, 3 PH

DATE: 01.22.09
SCALE: NONE

TERMINAL LEGEND

XXX	CABINET TERMINAL BLOCK
⊗	RELAY/TIMER TERMINAL
⊠	DEVICE TERMINAL
---	EXTERNAL WIRING
---	INTERNAL WIRING
—	CABLE

NO.	REVISION DESCRIPTION	DATE (Y/M/D)	DRAWN	CKD	APPD
1	ISSUE FOR TENDER	2017/03/24	RCM		
0	ISSUE FOR CLIENT REVIEW	2017/01/20	RCM		
No					

REFERENCE DRAWINGS

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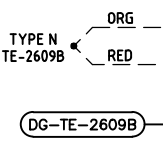
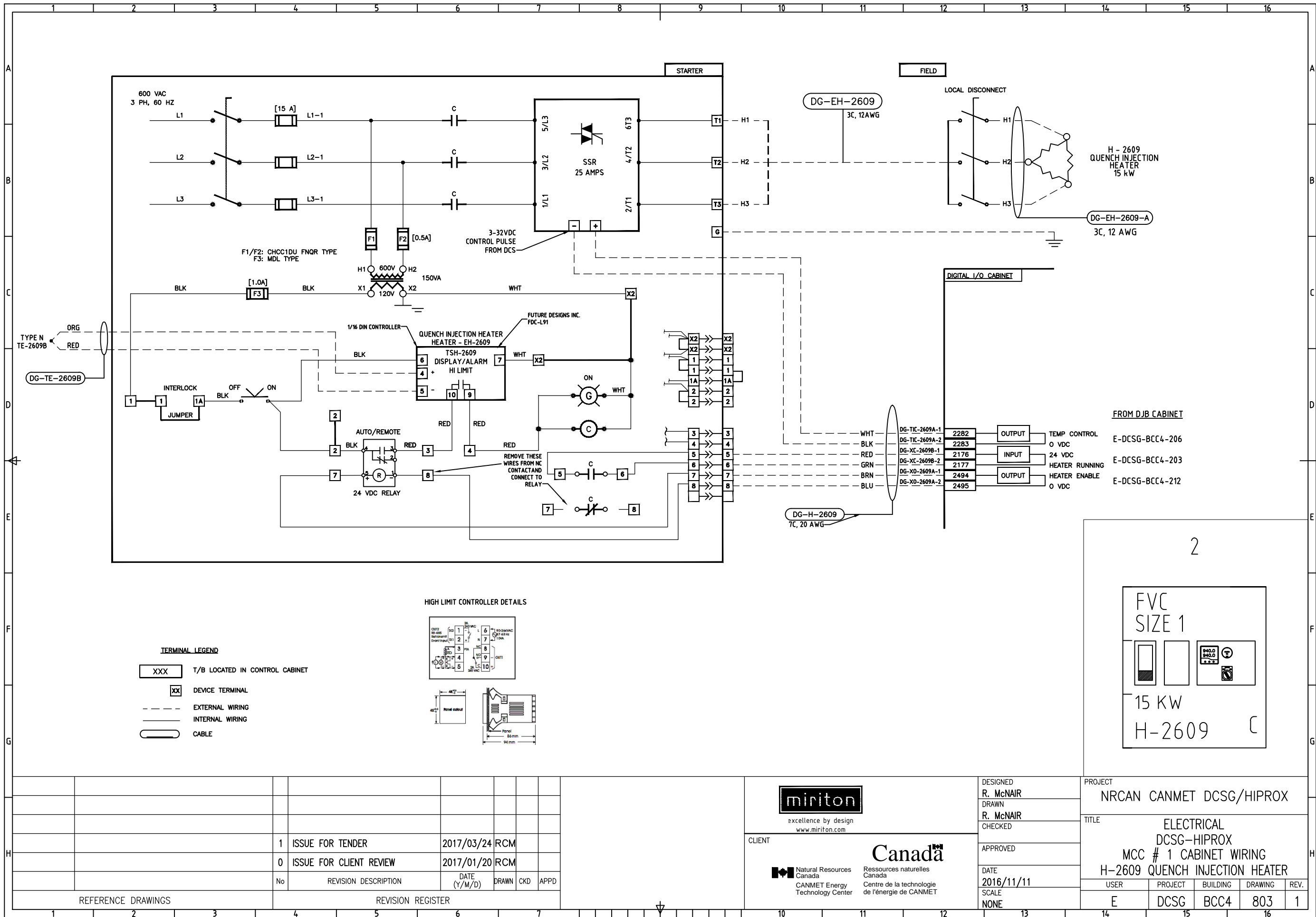
CLIENT: **Canada**
Natural Resources Canada
Ressources naturelles Canada
CANMET Energy Technology Center
Centre de la technologie de l'énergie de CANMET

DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED: []
APPROVED: []
DATE: 2016/11/11
SCALE: NONE

PROJECT: NRCAN CANMET DCSG/HIPROX

TITLE: ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING PB-1101A/B CO2 BULK TANK VAPOURIZER

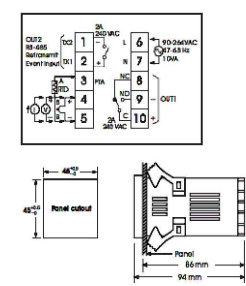
USER	PROJECT	BUILDING	DRAWING	REV.
E	DCSG	BCC4	802	1



FROM DJB CABINET

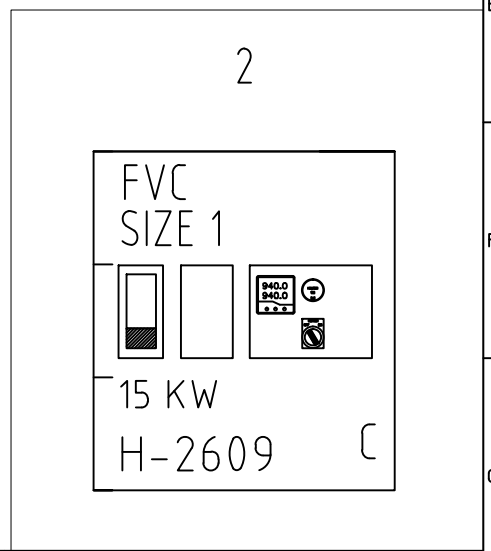
2282	OUTPUT	TEMP CONTROL	E-DCSG-BCC4-206
2283	INPUT	0 VDC	
2176	INPUT	24 VDC	E-DCSG-BCC4-203
2177	INPUT	HEATER RUNNING	
2494	OUTPUT	HEATER ENABLE	E-DCSG-BCC4-212
2495	OUTPUT	0 VDC	

HIGH LIMIT CONTROLLER DETAILS



TERMINAL LEGEND

XXX	T/B LOCATED IN CONTROL CABINET
XX	DEVICE TERMINAL
- - -	EXTERNAL WIRING
—	INTERNAL WIRING
○	CABLE



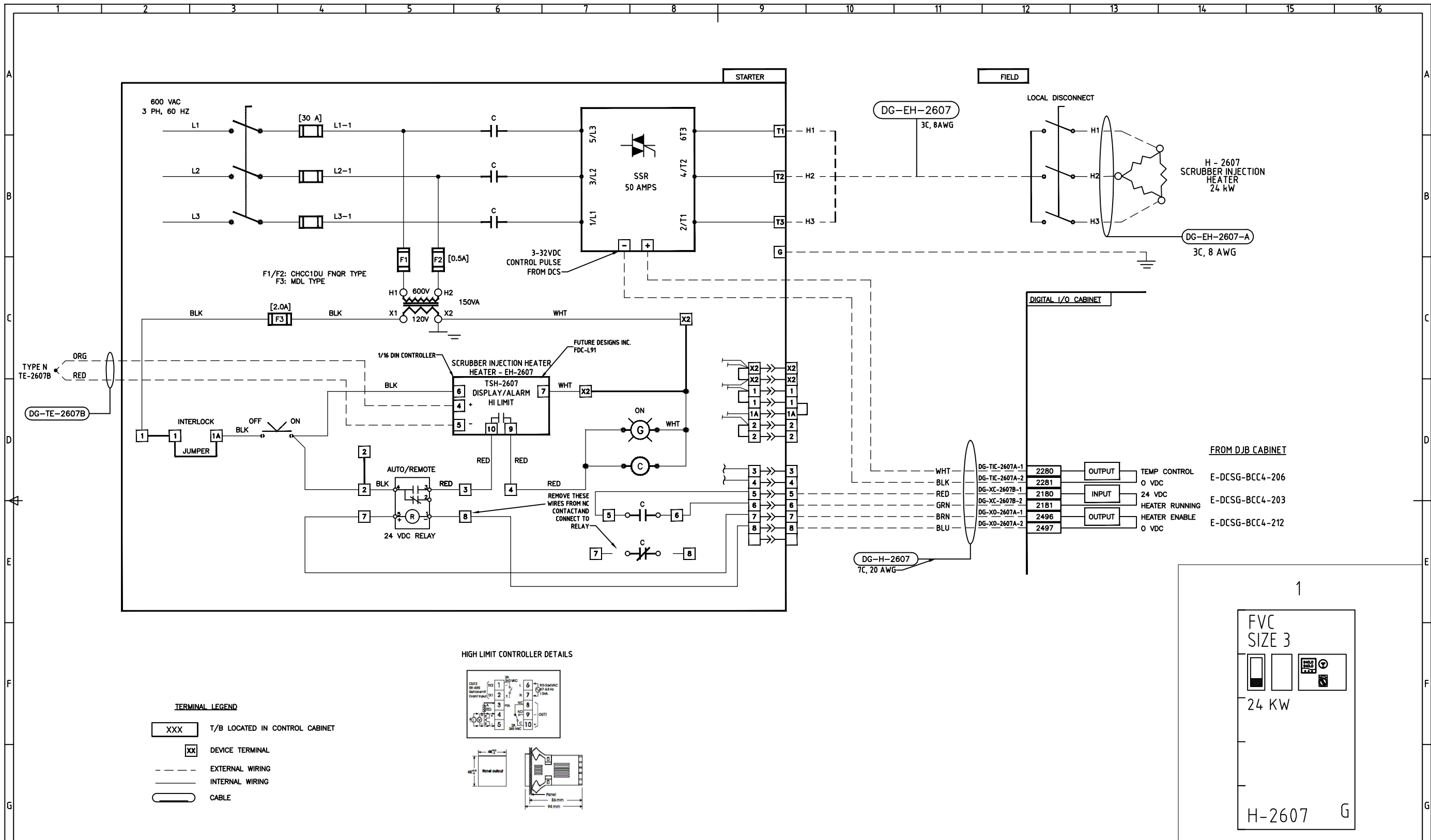
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0	2017/01/20	ISSUE FOR CLIENT REVIEW	RCM			
No		REVISION DESCRIPTION	DATE (Y/M/D)	DRAWN	CKD	APPD

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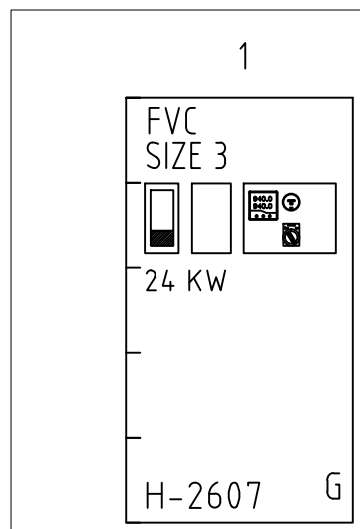
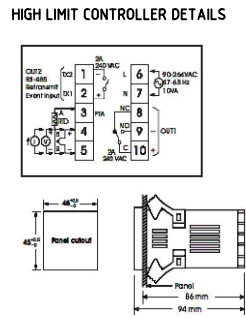
DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED: []
APPROVED: []
DATE: 2016/11/11
SCALE: NONE

PROJECT	NRCAN CANMET DCSG/HIPROX			
TITLE	ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING H-2609 QUENCH INJECTION HEATER			
USER	PROJECT	BUILDING	DRAWING	REV.
E	DCSG	BCC4	803	1



TERMINAL LEGEND

- XXX T/B LOCATED IN CONTROL CABINET
- XX DEVICE TERMINAL
- - - EXTERNAL WIRING
- INTERNAL WIRING
- CABLE



REV	DATE	DESCRIPTION	DRAWN	CKD	APPD
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No		REVISION DESCRIPTION			

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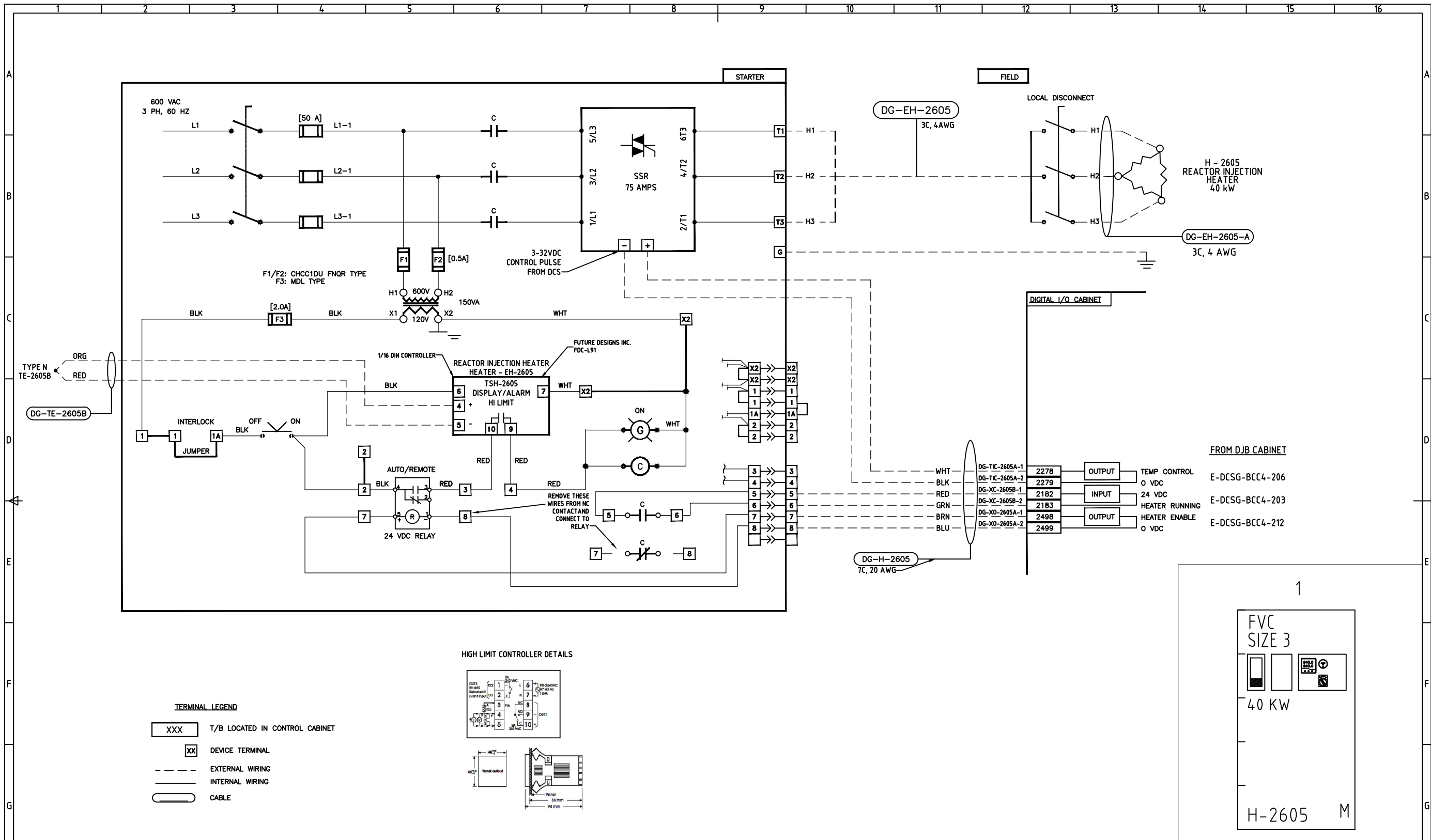
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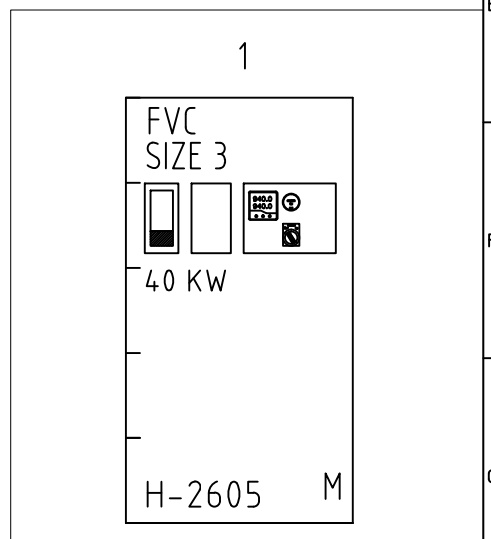
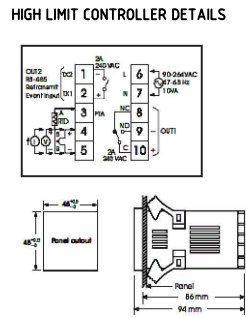
DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED:
APPROVED:
DATE: 2016/11/11
SCALE: NONE

PROJECT: NRCAN CANMET DCSG/HIPROX				
TITLE: ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING H-2607 SCRUBBER INJECTION HEATER				
USER: E	PROJECT: DCSG	BUILDING: BCC4	DRAWING: 804	REV: 1



TERMINAL LEGEND

- XXX T/B LOCATED IN CONTROL CABINET
- XX DEVICE TERMINAL
- - - EXTERNAL WIRING
- INTERNAL WIRING
- CABLE



REV	DATE	DESCRIPTION	DRAWN	CKD	APPD
1	2017/03/24	ISSUE FOR TENDER	RCM		
0	2017/01/20	ISSUE FOR CLIENT REVIEW	RCM		
No		REVISION DESCRIPTION			

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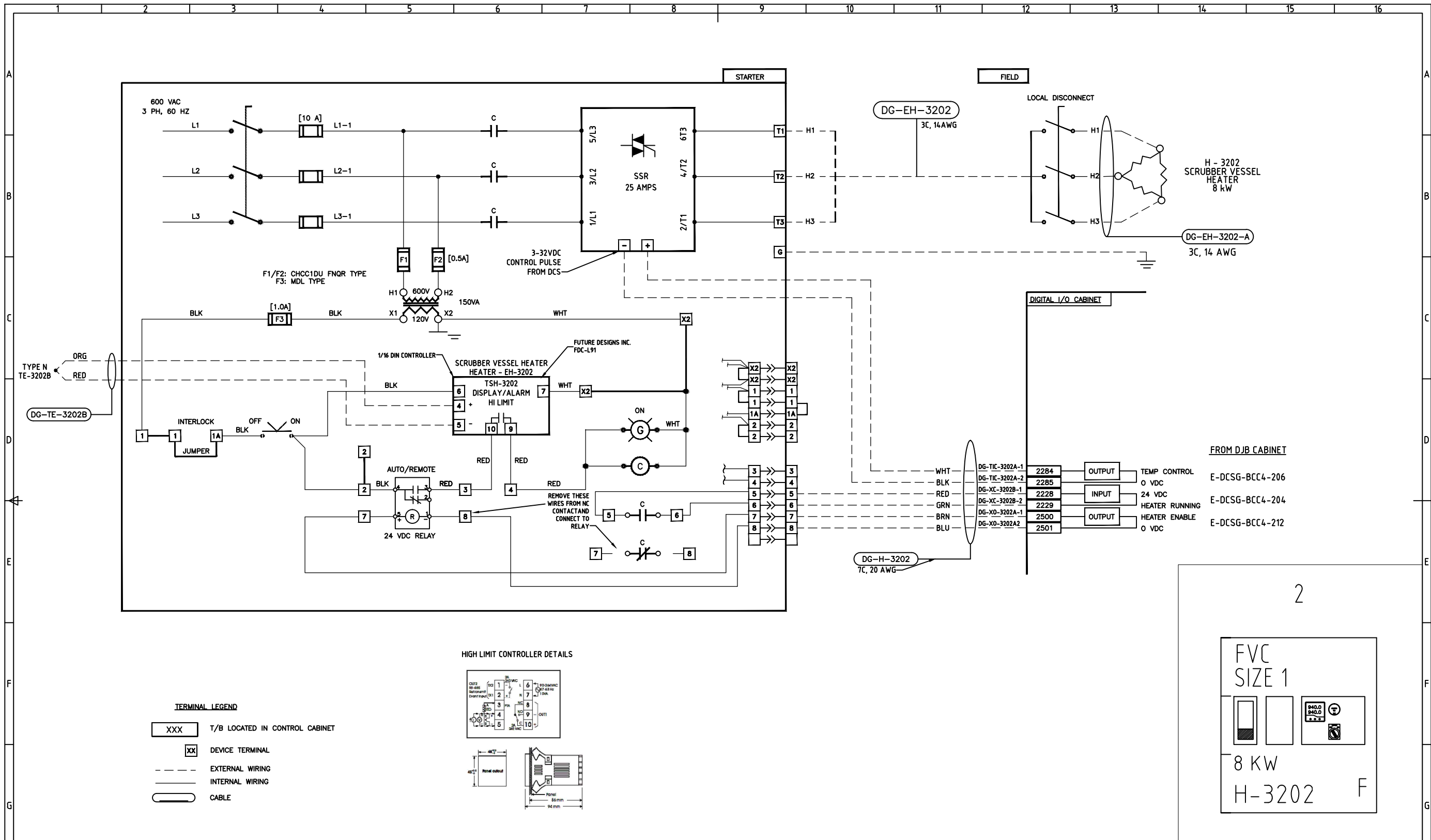
CLIENT: **Canada**
Natural Resources Canada / Ressources naturelles Canada
CANMET Energy Technology Center / Centre de la technologie de l'énergie de CANMET

DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED:
APPROVED:
DATE: 2016/11/11
SCALE: NONE

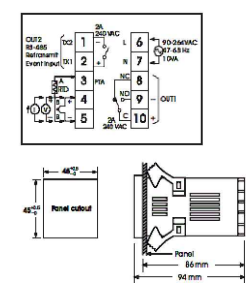
PROJECT: NRCAN CANMET DCSG/HIPROX

TITLE: ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING H-2605 REACTOR INJECTION HEATER

USER	PROJECT	BUILDING	DRAWING	REV.
E	DCSG	BCC4	805	1



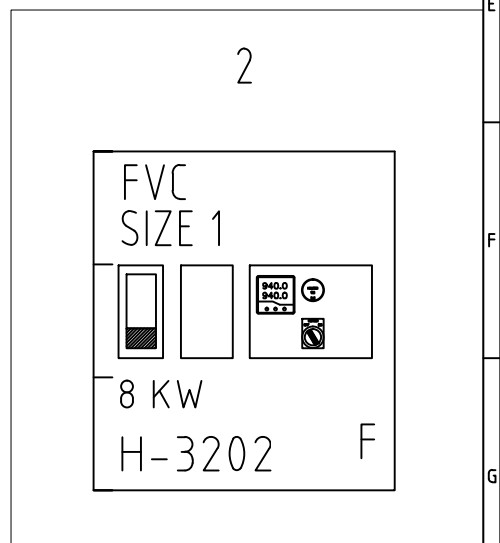
HIGH LIMIT CONTROLLER DETAILS



TERMINAL LEGEND

- XXX T/B LOCATED IN CONTROL CABINET
- XX DEVICE TERMINAL
- - - EXTERNAL WIRING
- INTERNAL WIRING
- CABLE

- FROM DJB CABINET
- | | | | |
|------|--------|----------------|-----------------|
| 2284 | OUTPUT | TEMP CONTROL | E-DCSG-BCC4-206 |
| 2285 | INPUT | 0 VDC | |
| 2228 | INPUT | 24 VDC | E-DCSG-BCC4-204 |
| 2229 | INPUT | HEATER RUNNING | |
| 2500 | OUTPUT | HEATER ENABLE | E-DCSG-BCC4-212 |
| 2501 | OUTPUT | 0 VDC | |



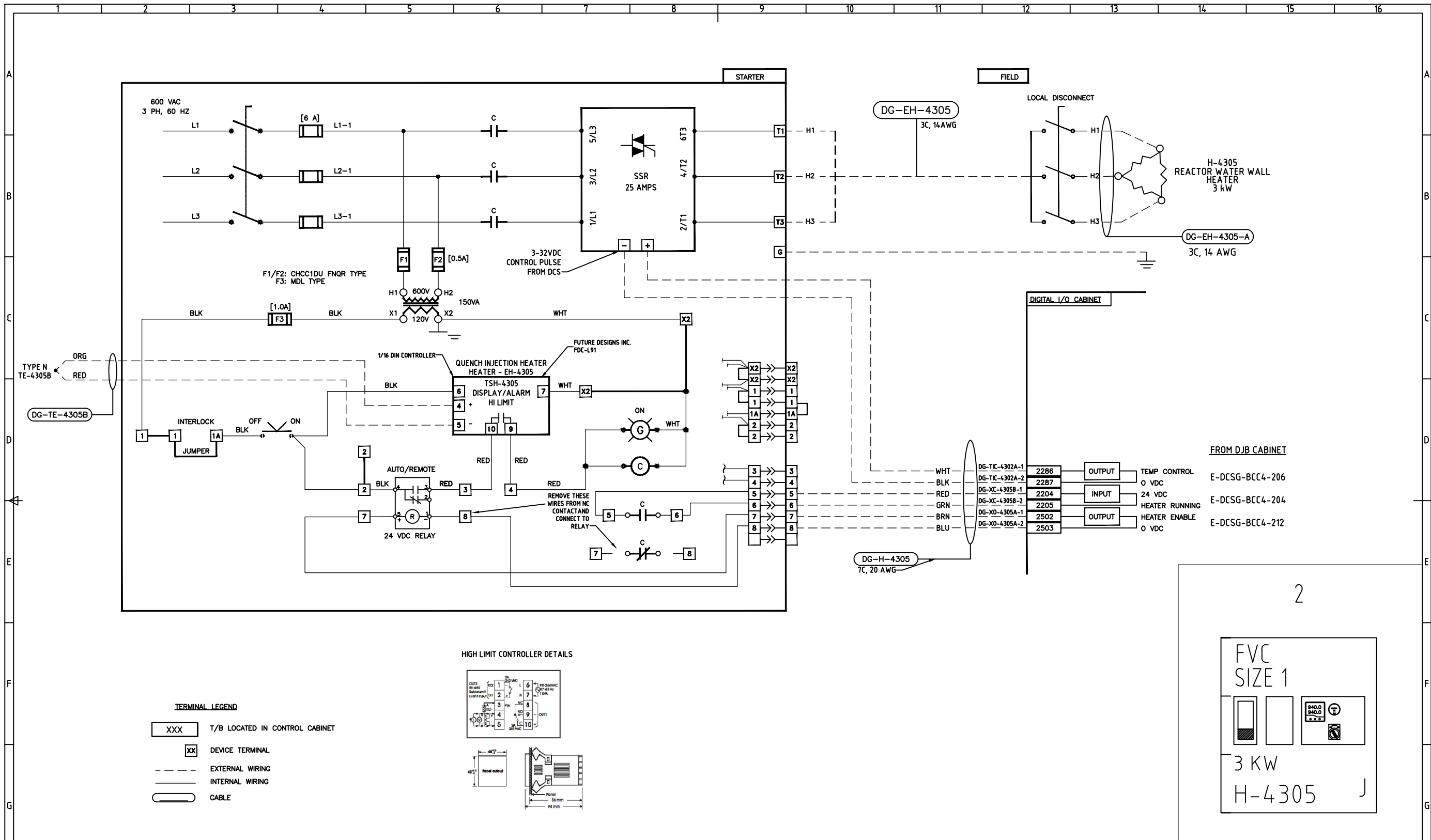
REVISION	REVISION DESCRIPTION	DATE (Y/M/D)	DRAWN	CKD	APPD
1	ISSUE FOR TENDER	2017/03/24	RCM		
0	ISSUE FOR CLIENT REVIEW	2017/01/20	RCM		
No					

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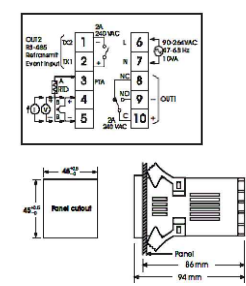
CLIENT: **Canada**
Natural Resources Canada / Ressources naturelles Canada
CANMET Energy Technology Center / Centre de la technologie de l'énergie de CANMET

DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED:
APPROVED:
DATE: 2016/11/11
SCALE: NONE

PROJECT: NRCAN CANMET DCSG/HIPROX				
TITLE: ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING H-3202 SCRUBBER VESSEL HEATER				
USER: E	PROJECT: DCSG	BUILDING: BCC4	DRAWING: 806	REV: 1

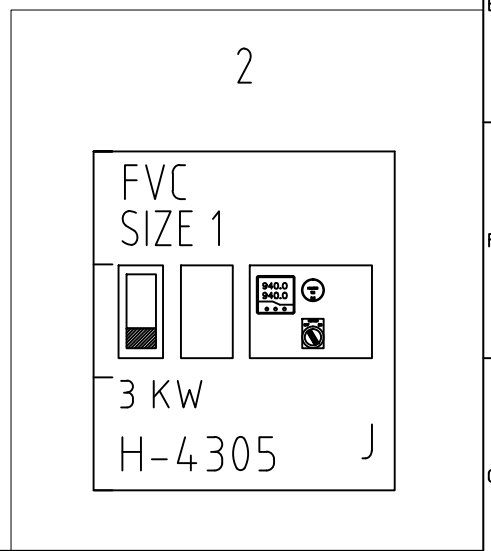


HIGH LIMIT CONTROLLER DETAILS



TERMINAL LEGEND

- XXX T/B LOCATED IN CONTROL CABINET
- XX DEVICE TERMINAL
- - - EXTERNAL WIRING
- INTERNAL WIRING
- CABLE



NO	REVISION DESCRIPTION	DATE (Y/M/D)	DRAWN	CKD	APPD
1	ISSUE FOR TENDER	2017/03/24	RCM		
0	ISSUE FOR CLIENT REVIEW	2017/01/20	RCM		
No					

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CLIENT: **Canada**
Natural Resources Canada
CANMET Energy Technology Center

DESIGNED: R. McNAIR
DRAWN: R. McNAIR
CHECKED:
APPROVED:
DATE: 2016/11/11
SCALE: NONE

PROJECT: NRCAN CANMET DCSG/HIPROX				
TITLE: ELECTRICAL DCSG-HIPROX MCC # 1 CABINET WIRING H-4305 REACTOR WATER WALL HEATER				
USER: E	PROJECT: DCSG	BUILDING: BCC4	DRAWING: 807	REV: 1