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SIZE D

REV

DATE

APPROVED

DESCRIPTION

REVISIONS

TC JACK PANEL 1-34901A SLOT 1

Channel	Channel Label	DEVICE	Color	Description
CH021	CH1-1	MW100	BLUE	T1
	CH1-2		RED	
CH022	CH2-4	MW100	BLUE	T2
	CH2-5		RED	
CH023	CH3-7	MW100	BLUE	T3
	CH3-8		RED	
CH024	CH4-10	MW100	BLUE	T4
	CH4-11		RED	
CH025	CH5-13	MW100	BLUE	T5
	CH5-14		RED	
CH026	CH6-1	MW100	BLUE	T6
	CH6-2		RED	
CH017	CH7-4	MW100	BLUE	T7
	CH7-5		RED	
CH028	CH8-7	MW100	BLUE	T8
	CH8-8		RED	
CH029	CH9-10	MW100	BLUE	T9
	CH9-11		RED	
CH030	CH10-13	MW100	BLUE	T10
	CH10-14		RED	
111	H	34972A	BLUE	T1-11
	L		RED	
112	H	34972A	BLUE	T1-12
	L		RED	
113	H	34972A	BLUE	T1-13
	L		RED	
114	H	34972A	BLUE	T1-14
	L		RED	
115	H	34972A	BLUE	T1-15
	L		RED	
116	H	34972A	BLUE	T1-16
	L		RED	
109	H	34972A	BLUE	T1-17
	L		RED	
110	H	34972A	BLUE	T1-18
	L		RED	

TC JACK PANEL 2-34901A SLOT 2

Channel	Channel Label	DEVICE	Color	Description
201	H	34972A	BLUE	T2-1
	L		RED	
202	H	34972A	BLUE	T2-2
	L		RED	
203	H	34972A	BLUE	T2-3
	L		RED	
204	H	34972A	BLUE	T2-4
	L		RED	
205	H	34972A	BLUE	T2-5
	L		RED	
206	H	34972A	BLUE	T2-6
	L		RED	
207	H	34972A	BLUE	T2-7
	L		RED	
208	H	34972A	BLUE	T2-8
	L		RED	
209	H	34972A	BLUE	T2-9
	L		RED	
210	H	34972A	BLUE	T2-10
	L		RED	
211	H	34972A	BLUE	T2-11
	L		RED	
212	H	34972A	BLUE	T2-12
	L		RED	
213	H	34972A	BLUE	T2-13
	L		RED	
214	H	34972A	BLUE	T2-14
	L		RED	
215	H	34972A	BLUE	T2-15
	L		RED	
216	H	34972A	BLUE	T2-16
	L		RED	
107	H	34972A	BLUE	T2-17
	L		RED	
108	H	34972A	BLUE	T2-18
	L		RED	

TC JACK PANEL 3-34901A SLOT 3

Channel	Channel Label	DEVICE	Color	Description
301	H	34972A	BLUE	T3-1
	L		RED	
302	H	34972A	BLUE	T3-2
	L		RED	
303	H	34972A	BLUE	T3-3
	L		RED	
304	H	34972A	BLUE	T3-4
	L		RED	
305	H	34972A	BLUE	T3-5
	L		RED	
306	H	34972A	BLUE	T3-6
	L		RED	
307	H	34972A	BLUE	T3-7
	L		RED	
308	H	34972A	BLUE	T3-8
	L		RED	
309	H	34972A	BLUE	T3-9
	L		RED	
310	H	34972A	BLUE	T3-10
	L		RED	
311	H	34972A	BLUE	T3-11
	L		RED	
312	H	34972A	BLUE	T3-12
	L		RED	
313	H	34972A	BLUE	T3-13
	L		RED	
314	H	34972A	BLUE	T3-14
	L		RED	
315	H	34972A	BLUE	T3-15
	L		RED	
316	H	34972A	BLUE	T3-16
	L		RED	
105	H	34972A	BLUE	T3-17
	L		RED	
106	H	34972A	BLUE	T3-18
	L		RED	

PATCH PANEL BILL OF MATERIALS

MANUFACTURER	PART NUMBER	DESCRIPTION	QTY
NEWPORT	ITHX-D3	Temperature and Humidity Virtual Chart Recorder	1
HOFFMAN	CSD241 668	Enclosure for sensor interface	1
HOFFMAN	CP2416	Mounting Plate	1
HOFFMAN	CMFK	Mounting Kits	1
MCMaster CARR	6755K21	Female Mini Turnlock for heater 240 VAC	3
MCMaster CARR	6755K22	Male Mini Turnlock Recept. 240 VAC	3
OMEGA	SJP3-18-1	Thermocouple Jack Panel	3
TE CONNECTIVITY	1544413-3	RJ45 CONNECTOR, PASS-THROUGH JACK	3
NEUTRIK	NC5FP-1	XLR AUDIO CONNECTOR JACK, 5 CONTACTS, PANEL MOUNT (RTD)	3
NEUTRIK	NC5MX	XLR AUDIO CONNECTOR PLUG, 5 CONTACTS (RTD)	3
NEUTRIK	NC6FP-1	XLR AUDIO CONNECTOR, 6 CONTACTS (COM PORTS)	5
NEUTRIK	NC6MX	XLR AUDIO CONNECTOR PLUG, 6 CONTACTS (COM PORTS)	5
NEUTRIK	NC4FP-1	XLR AUDIO CONNECTOR, JACK, 4 CONTACTS (PRESSURE SENSOR)	3
NEUTRIK	NC4MX	XLR AUDIO CONNECTOR PLUG, 4 CONTACTS (PRESSURE SENSOR)	3
OPTO 22	IAC24A	INPUT MODULE AC/DC 24VDC LOGIC	3
POTTER & BRUMFIELD	2IO4A	SOLID STATE RELAY BOARD	1

GENERAL NON-DAQ COMPONENTS

MANUFACTURER	PART NUMBER	DESCRIPTION	QTY
HOFFMAN	CSD302410	Main Test Enclosure	1
HOFFMAN	CP30P24	Mounting Plate	1
HOFFMAN	CMFK	Mounting Kits	1
DATA PRO	1598-02C	USB A Bulkhead	1
DATA PRO	1152-02C	HD15 Bulkhead VGA Panel-Mount Ext. CL2 PVC 2 ft	1
DATA PRO	70302A	VGA & USB Wall Plate	1
MCMaster CARR	7196K31	120 VAC Plug	1
MCMaster CARR	8035K55	250 VAC 30 A Plug 3 terminal NEMA 90 degree	1
ANY		ACER V173 DJB 17" Monitor	1
ANY		USB Keyboard	1
ANY		Optical Mouse	1
MANHATTAN	161718	Manhattan 28 Port USB Hub	1
MULTICOMP	SPC21423	MULTICOMP SPC21423 CONNECTOR, XLR, JACK, 5 POSITION (RTD QUICK DISCONNECT)	3

NOTES:

1. PC WITH WINDOWS 7 AND MINIMUM 4GB OF MEMORY MOUNTED OUTSIDE DAQ BOX

2. HIGHER VERSIONS OF WINDOWS WILL WORK. (NOT TESTED COMPLETELY)

3. USE RJ-45 PASS-THROUGH JACK (ON DAQ PANEL) TO CONNECT ALL EQUIPMENT TO ETHERNET HUB

4. IF USING GAS MASS FLOW METERS PLACE METER BEFORE REGULATOR.

5. REFERENCE RANGE GAS FLOW METER DRAWING

SIGNATURES

DATE

5/16/10

COREY SWEAT

DESIGNED

DRAWN

REVIEWED

APPROVED

SCALE

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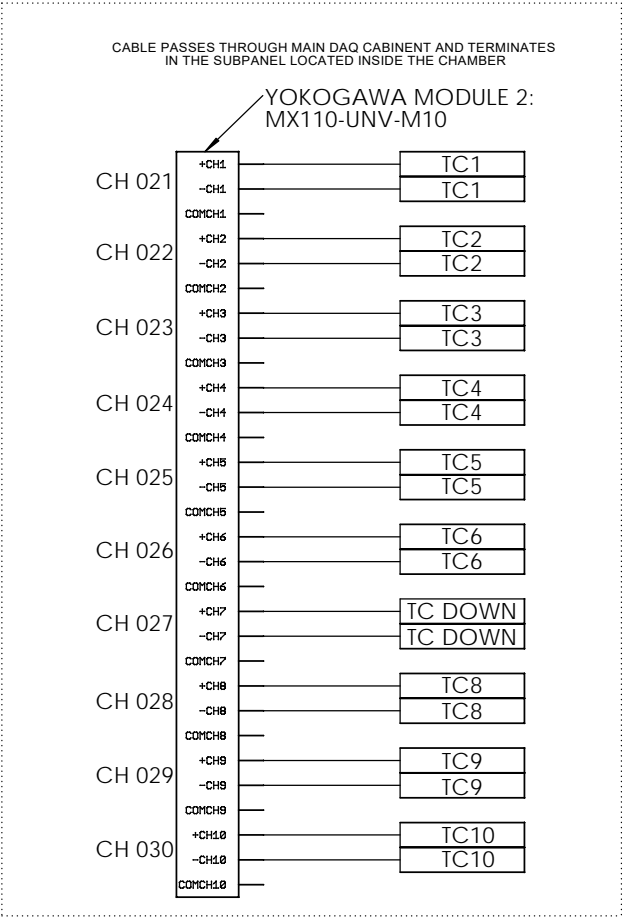
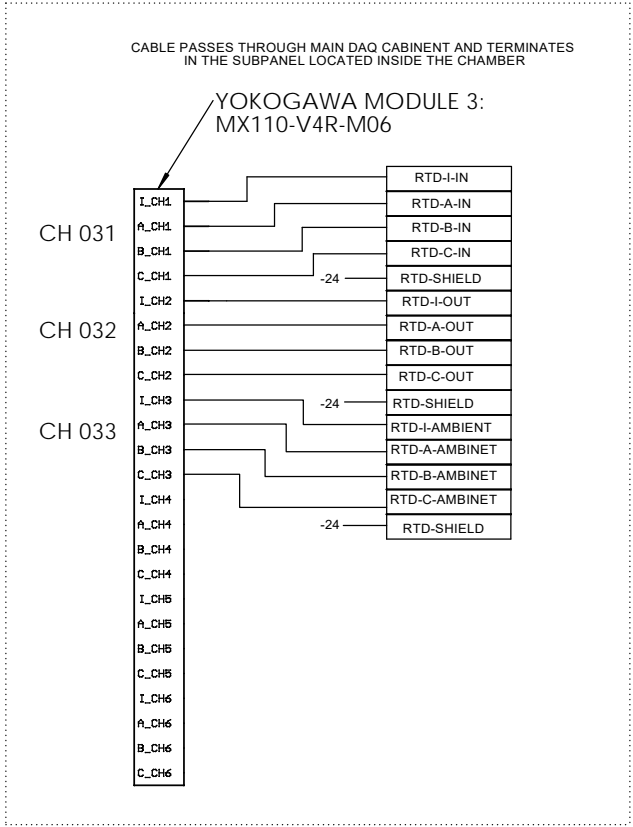
GENERAL ELECTRIC

HEWH - THERMOCOUPLE LAYOUT

AP1 DOE DAQ.DWG

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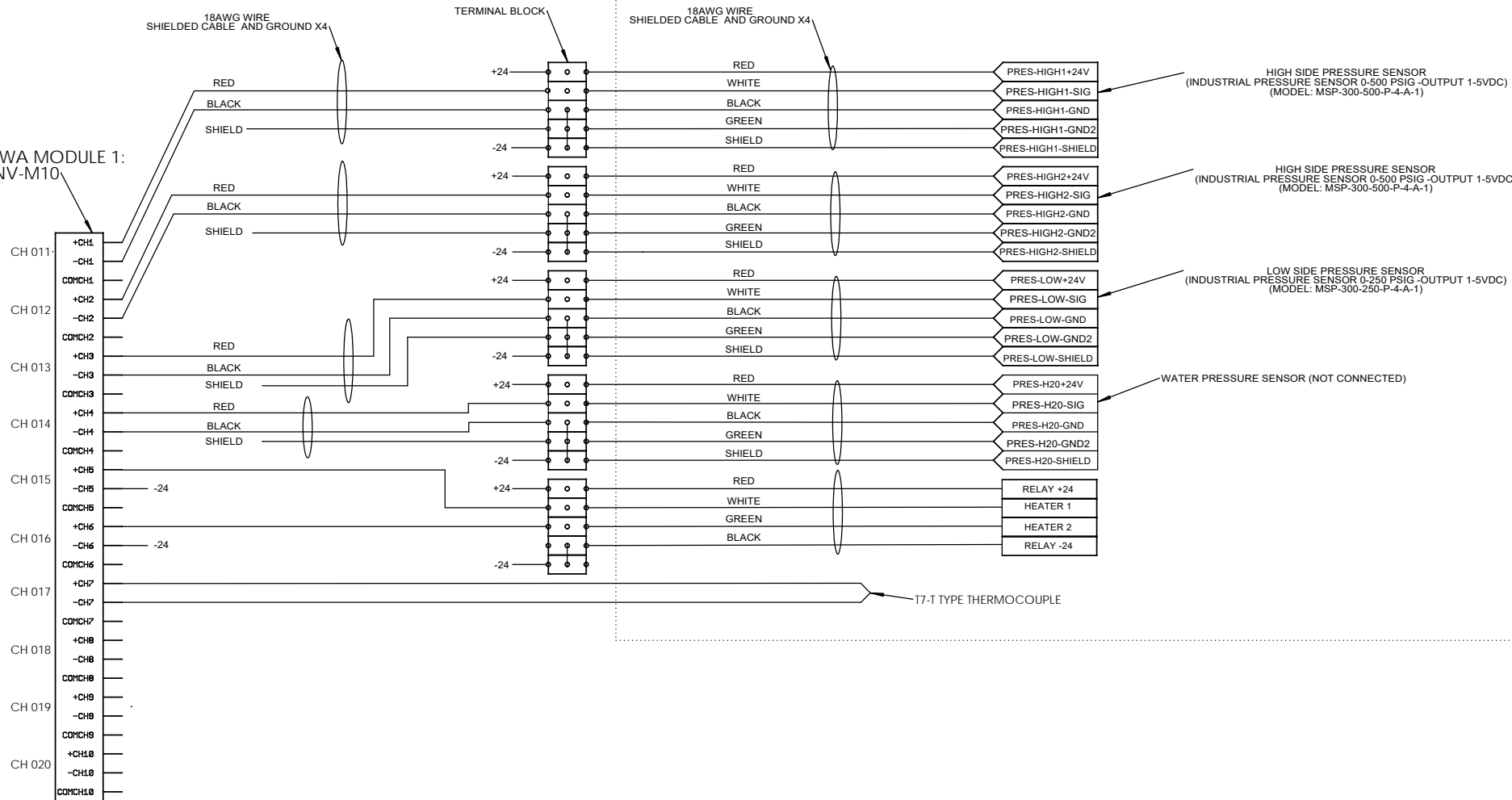


NOTES:

1. THERMOCOUPLE WIRE TYPE T (+BLUE, -RED)
2. REFER TO HEWH WIRING DIAGRAM FOR CABLE LAYOUT

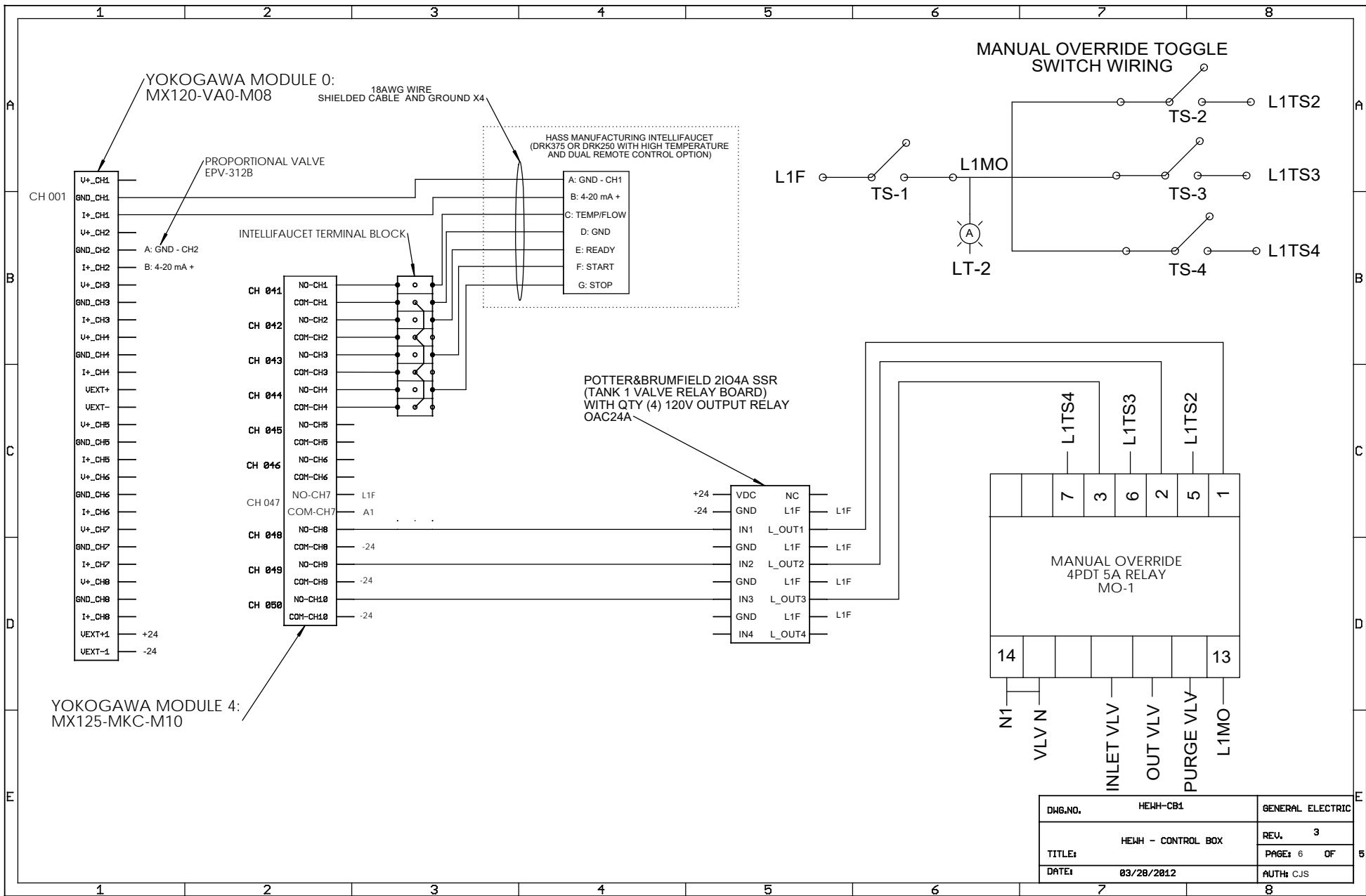
DWG.NO.	HEWH-CB1	GENERAL ELECTRIC
TITLE:	HEWH - CONTROL BOX	REV. 2
DATE:	05/19/2011	PAGE: 4 OF 5
		AUTH: CJS

YOKOGAWA MODULE 1:
MX110-UNV-M10



- NOTES:
1. CURRENT CARRYING 240VAC WIRING 8AWG
2. RESISTORS ARE ONLY NECESSARY FOR CURRENT LOOP PRESSURE SENSORS

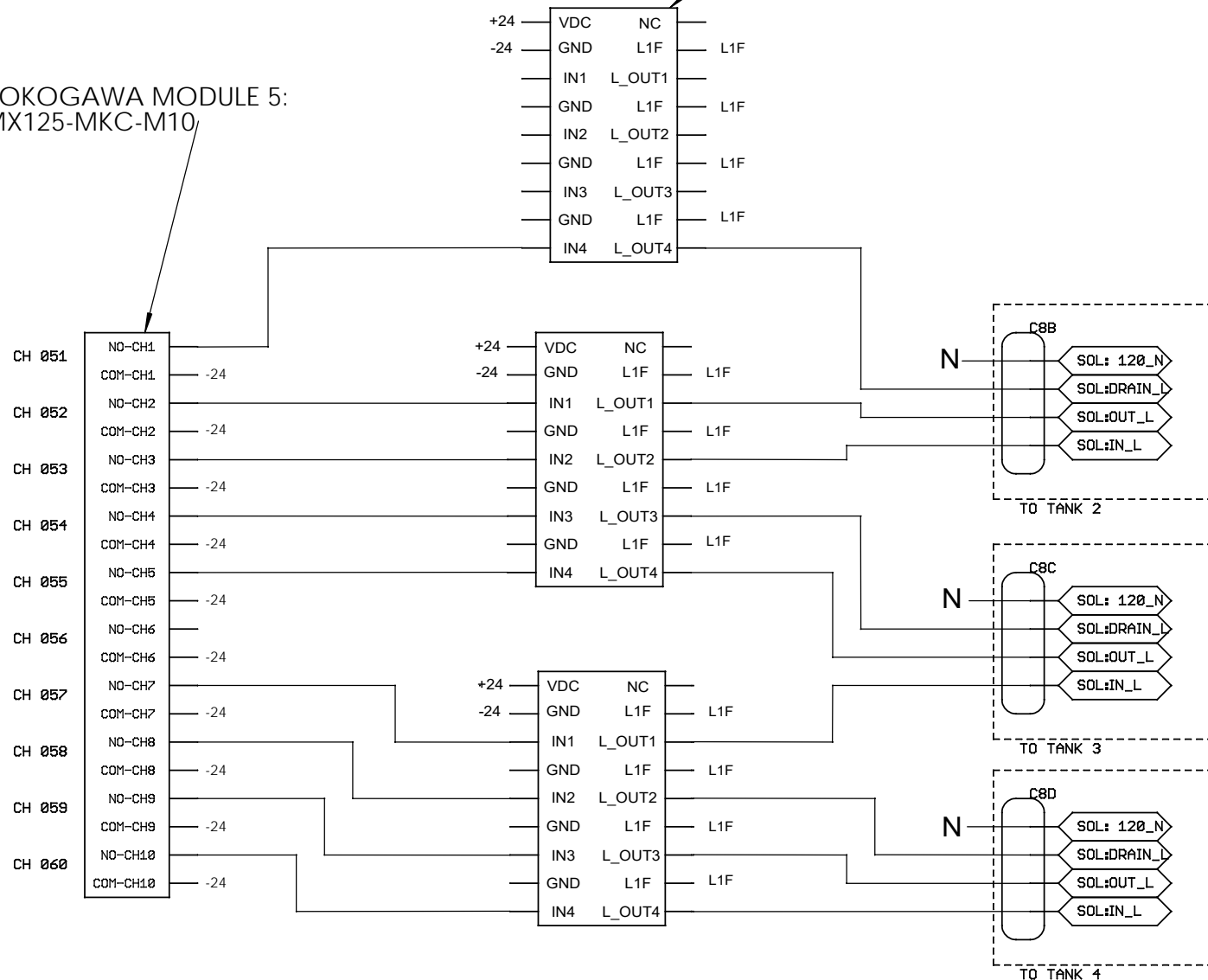
DWG NO.	HEWH-CB1	GENERAL ELECTRIC
TITLE:	HEWH - CONTROL BOX	REV. 5
DATE:	05/19/2011	PAGE: 5 OF 5
		AUTH: CJS



DWG.NO.	HEWH-CB1	GENERAL ELECTRIC
TITLE:	HEWH - CONTROL BOX	REV. 3
DATE:	03/28/2012	PAGE: 6 OF 5
		AUTH: CJS

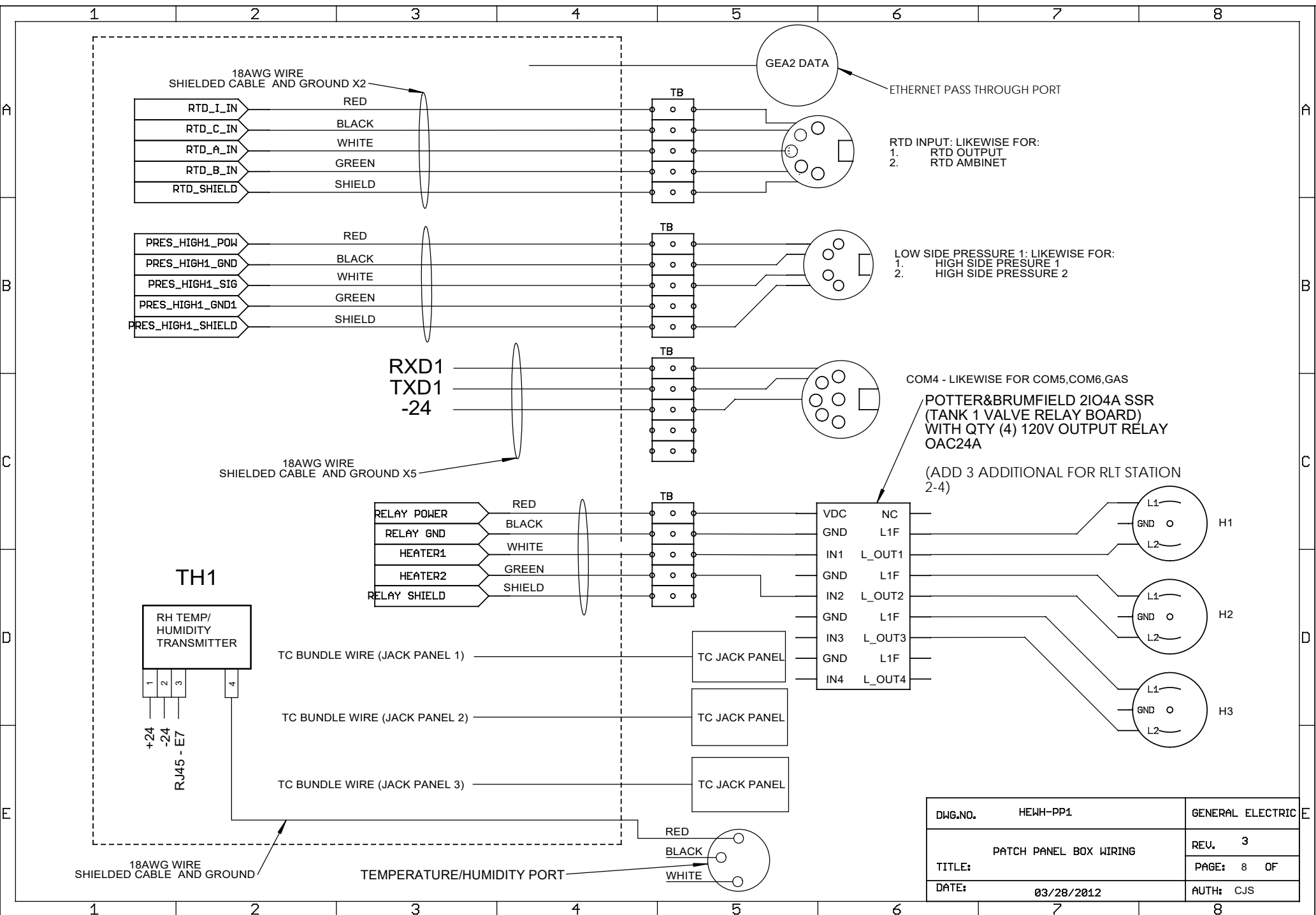
YOKOGAWA MODULE 5:
MX125-MKC-M10

POTTER&BRUMFIELD 2IO4A SSR
(TANK 1 VALVE RELAY BOARD)
WITH QTY (4) 120V OUTPUT RELAY
OAC24A



THESE CONTROLS ARE FOR TANK (2-4). THEY ARE TOO
BE INSTALLED ON RLT CHAMBER BOXES ONLY

DWG.NO.	HEWH-CB1	GENERAL ELECTRIC
TITLE:	HEWH - CONTROL BOX	REV. 0
DATE:	10/27/2010	PAGE: 7 OF 5
		AUTH: CJS



DWG.NO.	HEWH-PP1	GENERAL ELECTRIC
TITLE: PATCH PANEL BOX WIRING		REV. 3
DATE:	03/28/2012	PAGE: 8 OF
		AUTH: CJS