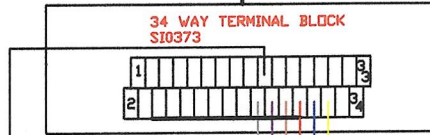


Valve	34TB No.
0	1,2
1	3,4
2	5,6
3	7,8
4	9,10
5	11,12
6	13,14
7	15,16
8	17,18
9	19,20
10	21,22
11	23,24
12	25,26
13	27,28
14	29,30
15	31,32



25 D SKT to MANIFOLD
DRG: 10802/004/014

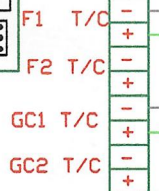
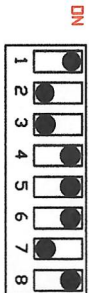
4.5m USB CABLE
SI2288

K-TYPE
FITTE
SC003

EArth PCB: SI2582

MFC & EPC
JUMPERS:

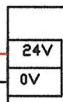
DIP SWITCH SETUP: CRYOFLEX (F)



15 D PLUG to J6
DRG: 10802/004/011



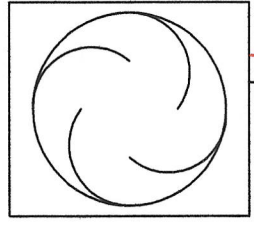
24/0.2 RED & BLACK

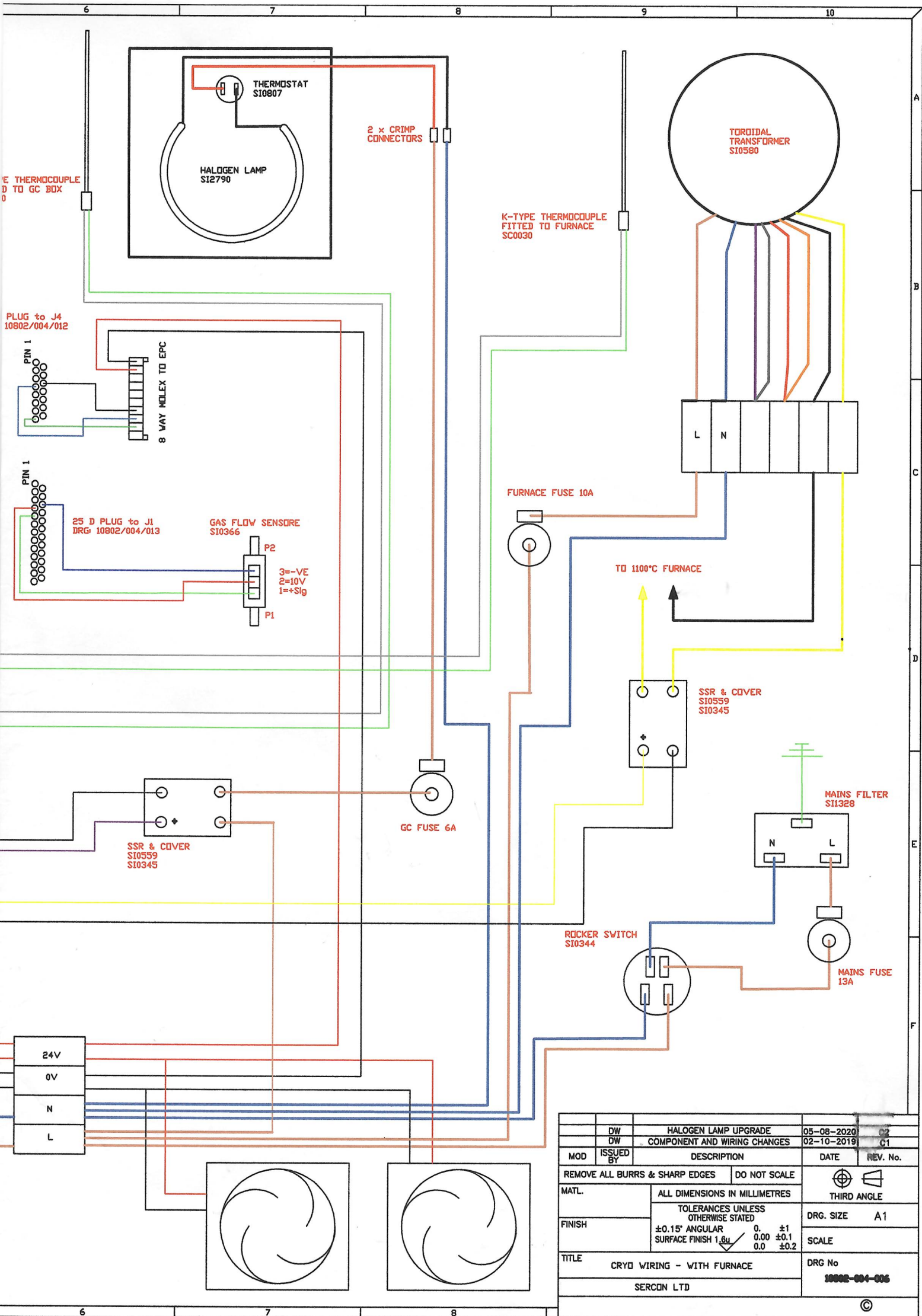


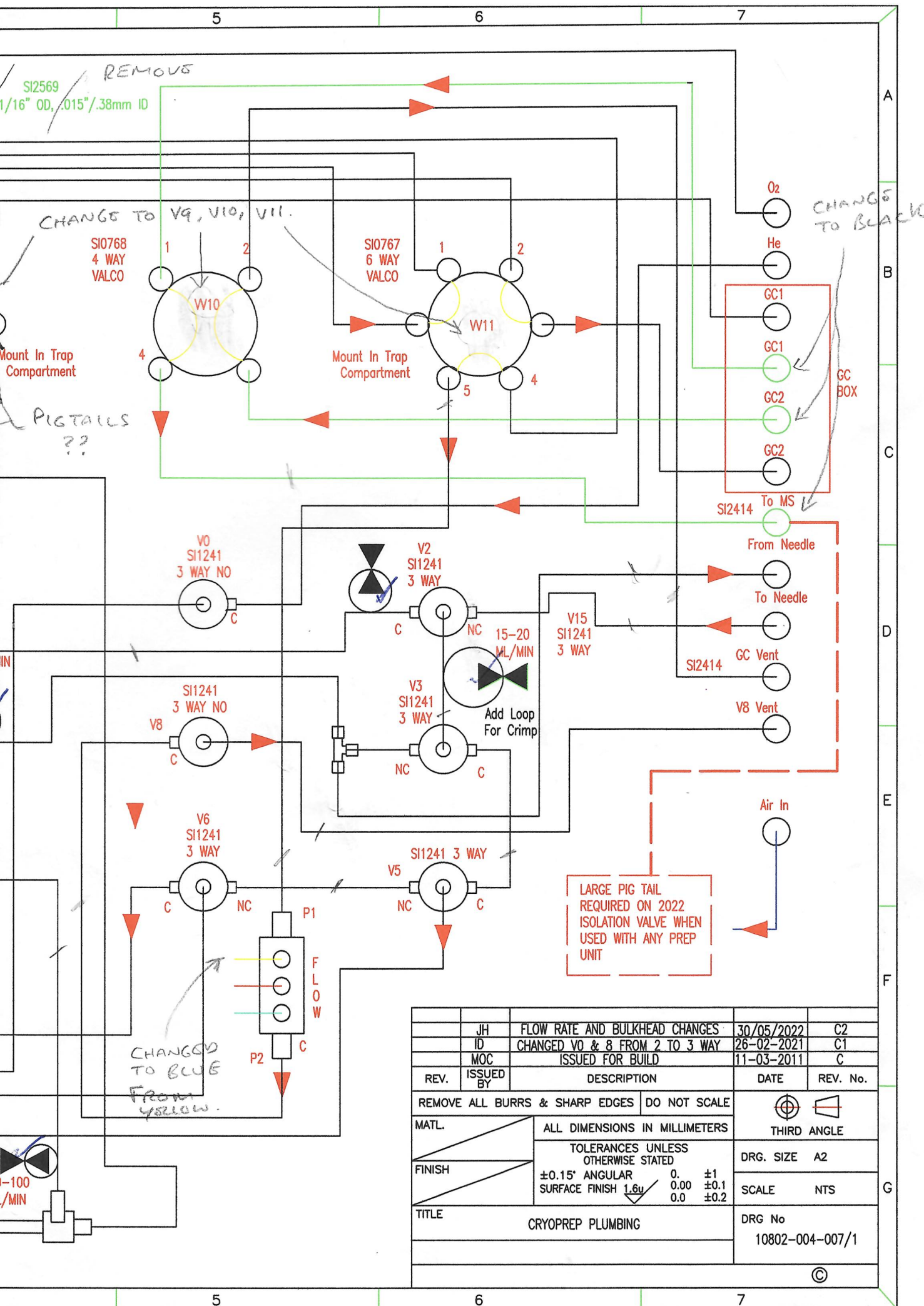
24VOLT PSU
SI0508



ALL MAINS CABLES 32/0.2 BROWN & BLUE







	JH	FLOW RATE AND BULKHEAD CHANGES	30/05/2022	C2
	ID	CHANGED V0 & 8 FROM 2 TO 3 WAY	26-02-2021	C1
	MOC	ISSUED FOR BUILD	11-03-2011	C
REV.	ISSUED BY	DESCRIPTION	DATE	REV. No.
REMOVE ALL BURRS & SHARP EDGES		DO NOT SCALE		
MATL.	ALL DIMENSIONS IN MILLIMETERS		THIRD ANGLE	
FINISH	TOLERANCES UNLESS OTHERWISE STATED		DRG. SIZE A2	
	±0.15° ANGULAR 0. ±1 SURFACE FINISH 1.6u 0.00 ±0.1 0.0 ±0.2		SCALE NTS	
TITLE			DRG No	
CRYOPREP PLUMBING			10802-004-007/1	
©				

ALL PARTS IN VIOLET ARE FOR
WHEN TOC UNIT IS FITTED

REMOVE

A

B

C

D

E

F

G

SHUTZ

CARBOSORB

10-20 ML/MIN
FLOW CONT. SI2296
V1

OUT 3-4 ML/MIN
FLOW CONT. SI2296
IN

OUT 1-2 ML/MIN
FLOW CONT. SI2296
IN

6-8 PSI
EPC
He

IN OUT

V12

V13

V14

VICI Tubing

SI0767
6 WAY
VALCO

W9
30 thou
link

Mount In Furnace
Compartment

V1
SI1242
2 WAY NC
C

40-60 ML

V4
SI1242
2 WAY NC
C

V7
SI1242
2 WAY NC
C

TO
FURNACE

IN

SI1284 1/32 TUBING

REMOVE

NAFION SI0837

CHANGE
TO BLACK

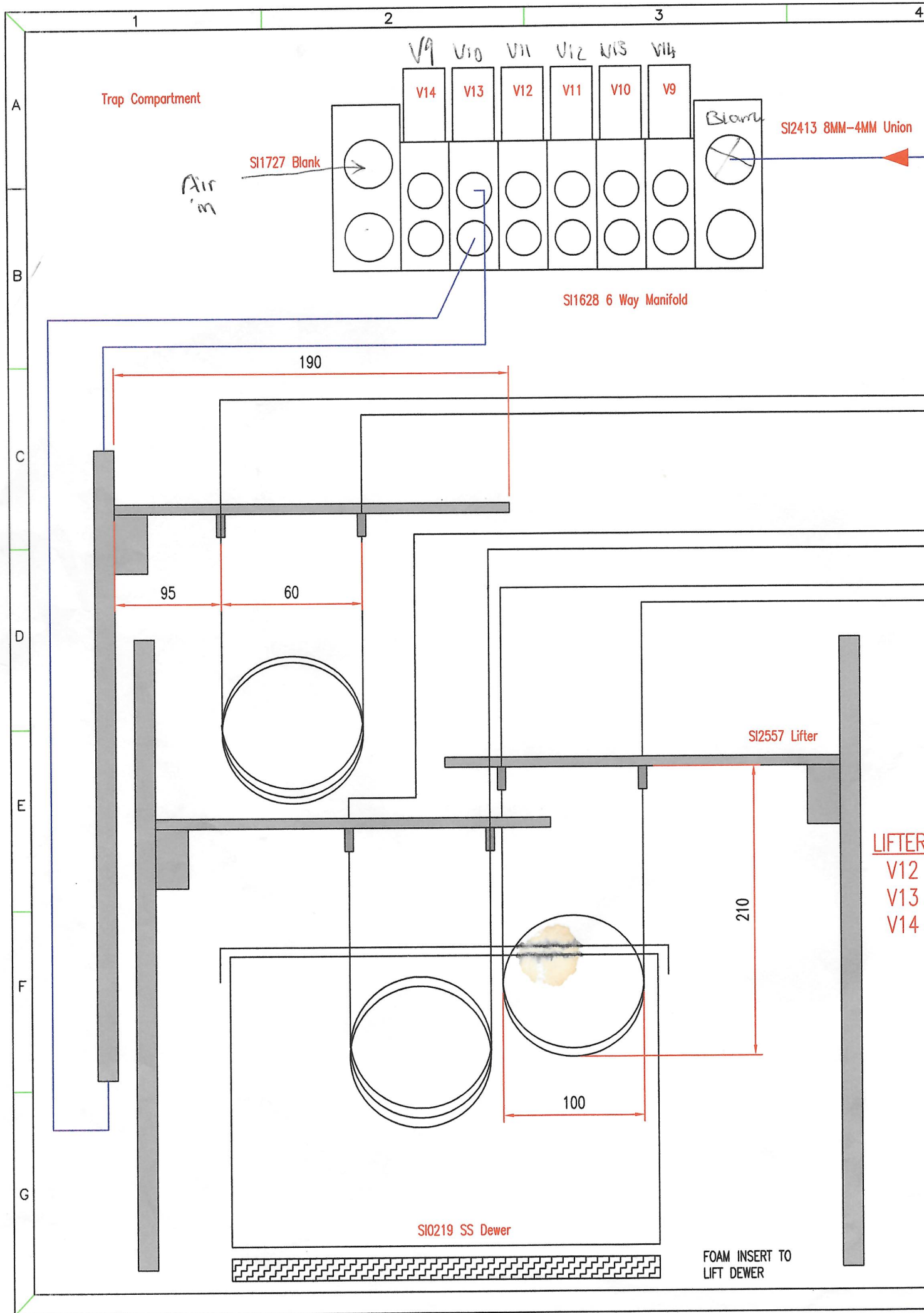
7

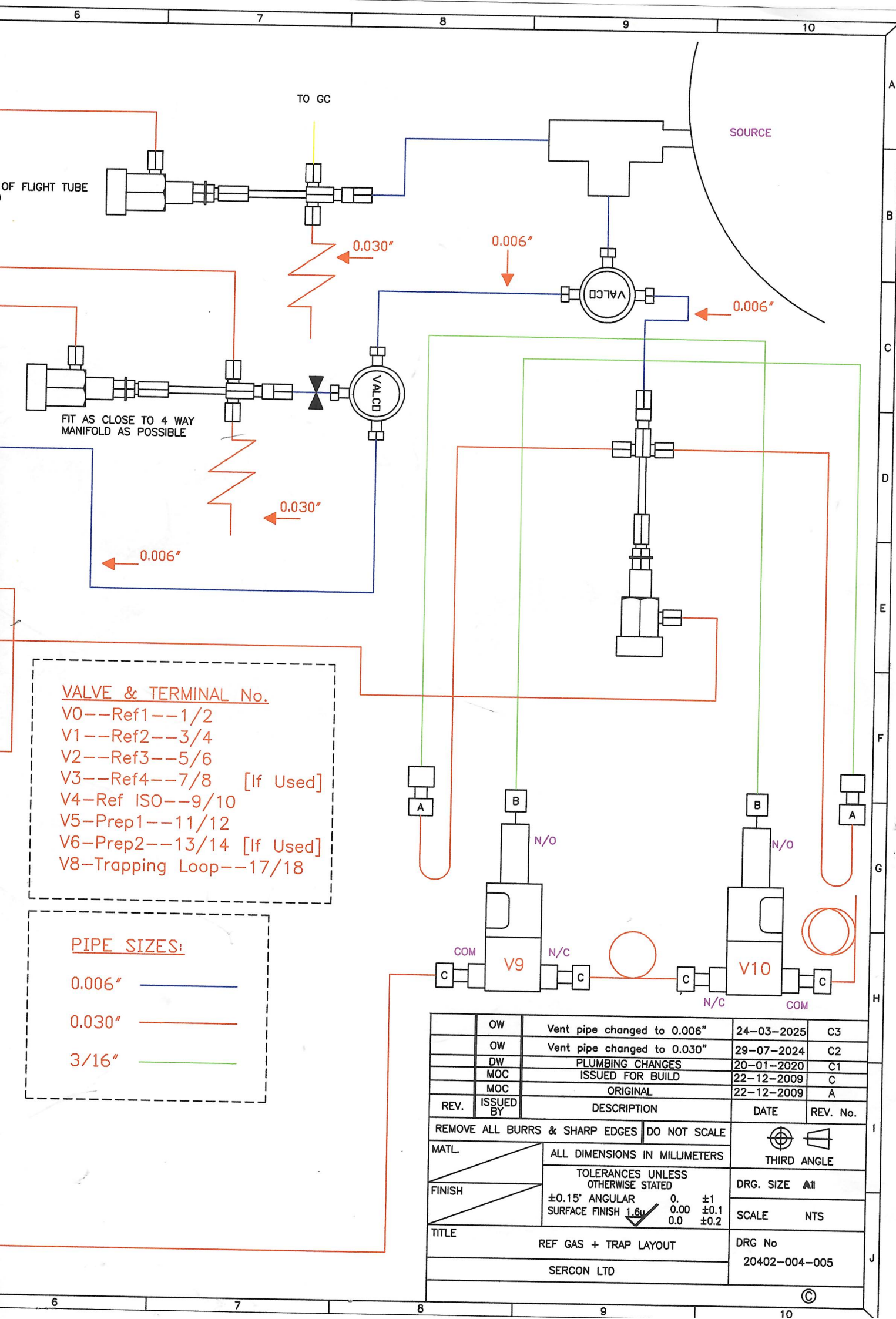
A

B

EF

7





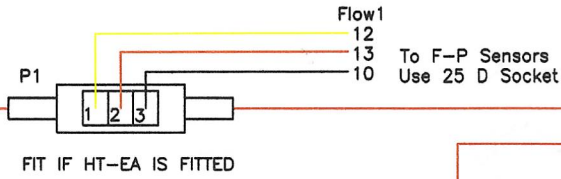


LEAVE ROOM ON
PIPE FOR CRIMP



IN W002612
INITIAL: SW
DATE: 03/02/26

FIT ON TOP
IF GC FITT



FIT AS CLOSE TO 4 WAY
MANIFOLD AS POSSIBLE

0.030"

0.006"

0.006"

0.006"

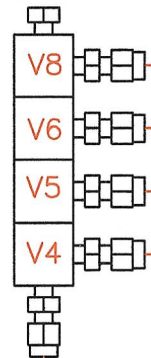
REF 1 N2

REF 2 CO2

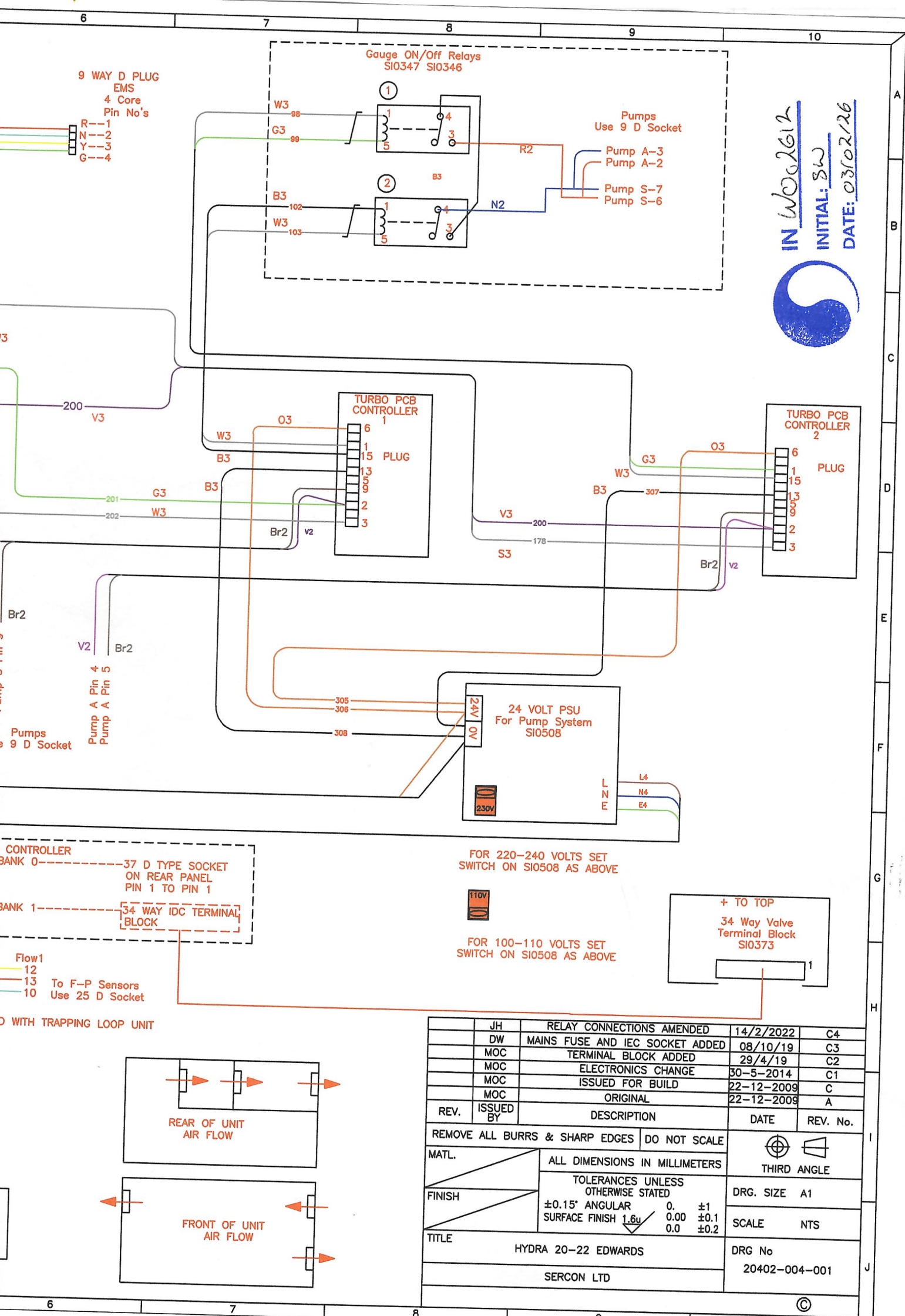
REF 3 HD

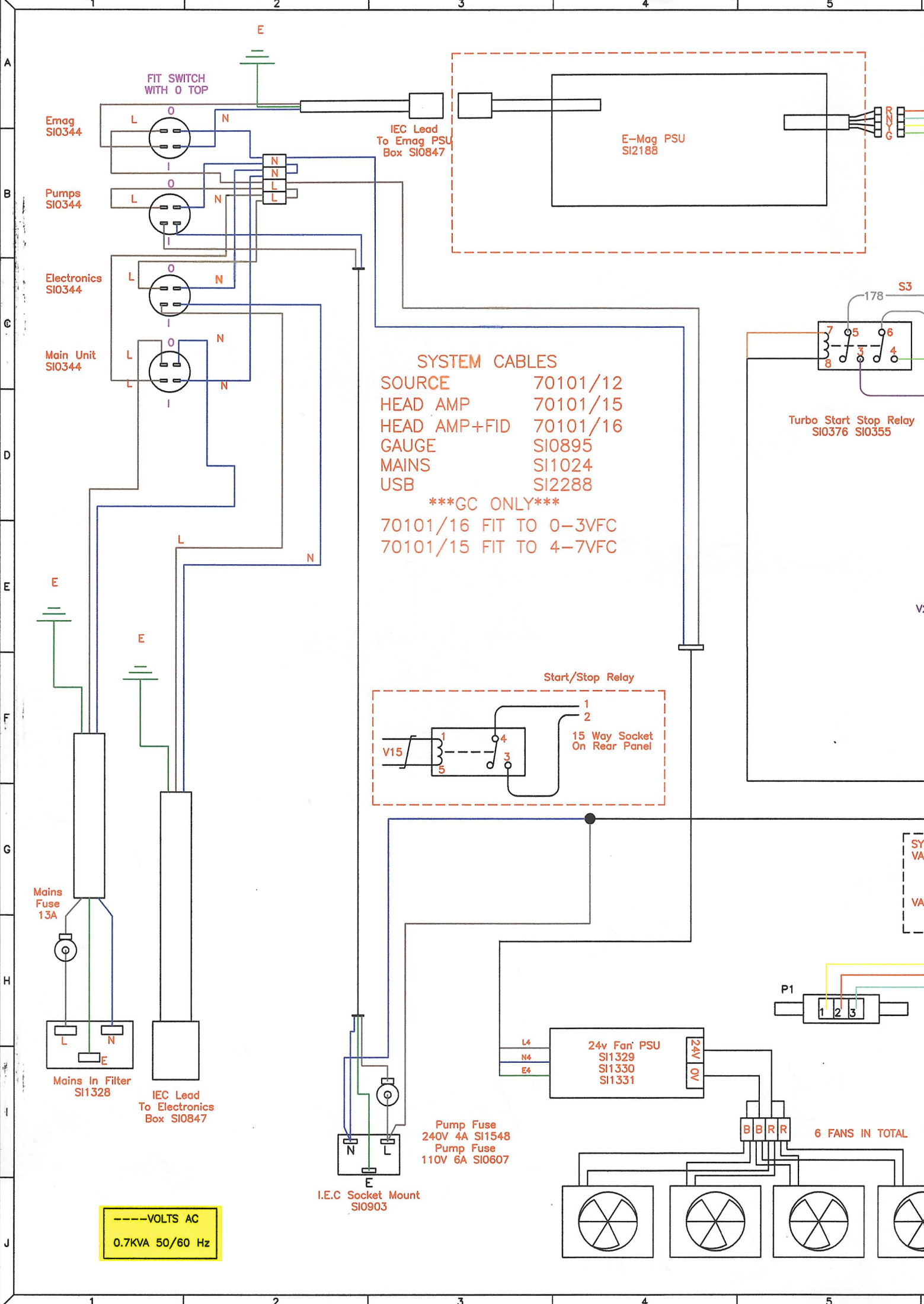
He

Aux



10-15ml/min





FIT SWITCH
WITH 0 TOP

Emag
SI0344

Pumps
SI0344

Electronics
SI0344

Main Unit
SI0344

IEC Lead
To Emag PSU
Box SI0847

E-Mag PSU
SI2188

SYSTEM CABLES

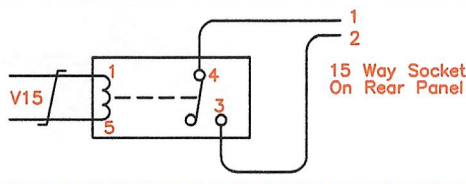
SOURCE	70101/12
HEAD AMP	70101/15
HEAD AMP+FID	70101/16
GAUGE	SI0895
MAINS	SI1024
USB	SI2288

GC ONLY

70101/16 FIT TO 0-3VFC
70101/15 FIT TO 4-7VFC

Turbo Start Stop Relay
SI0376 SI0355

Start/Stop Relay



Mains
Fuse
13A

Mains In Filter
SI1328

IEC Lead
To Electronics
Box SI0847

Pump Fuse
240V 4A SI1548
Pump Fuse
110V 6A SI0607

I.E.C Socket Mount
SI0903

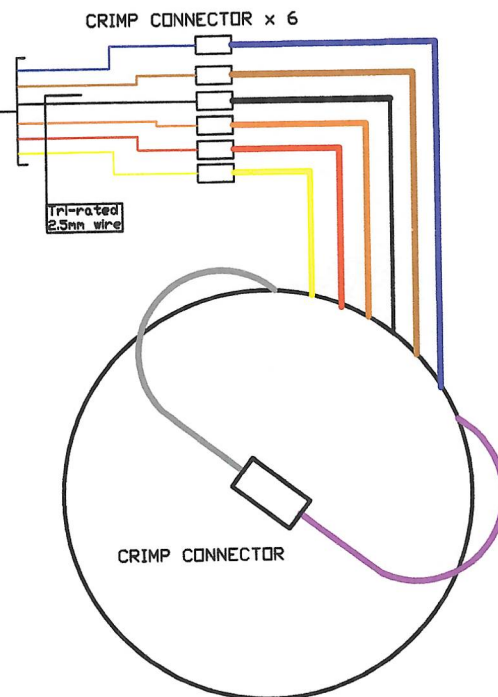
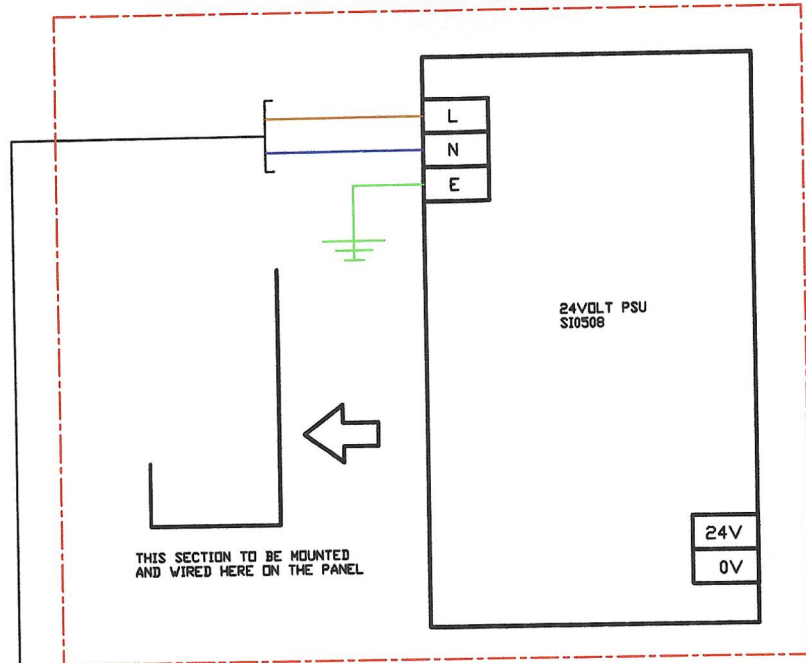
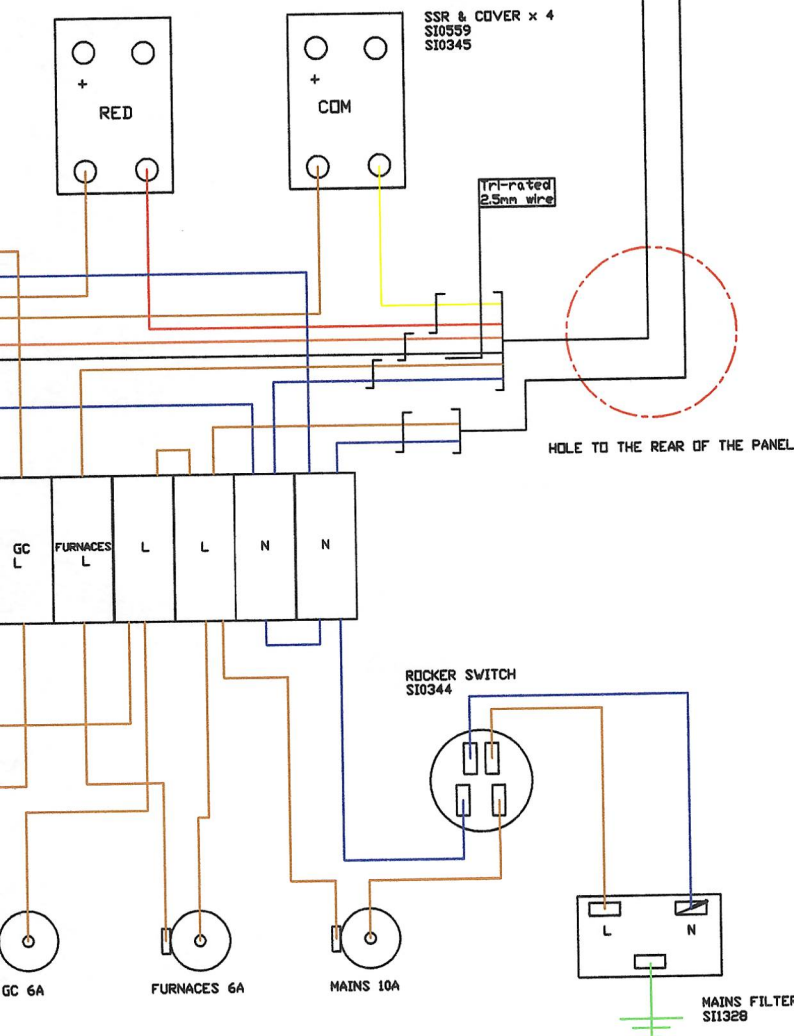
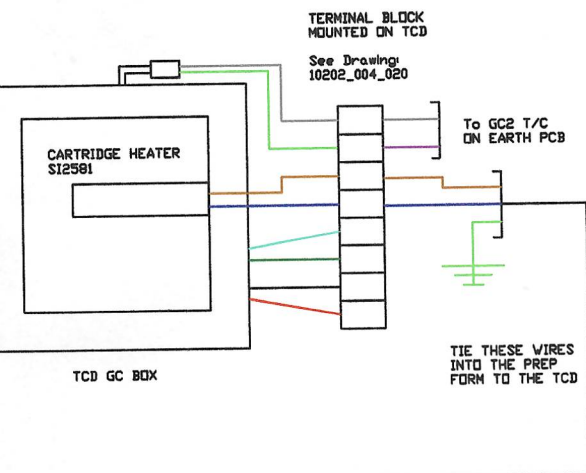
24v Fan PSU
SI1329
SI1330
SI1331

6 FANS IN TOTAL

-----VOLTS AC
0.7KVA 50/60 Hz



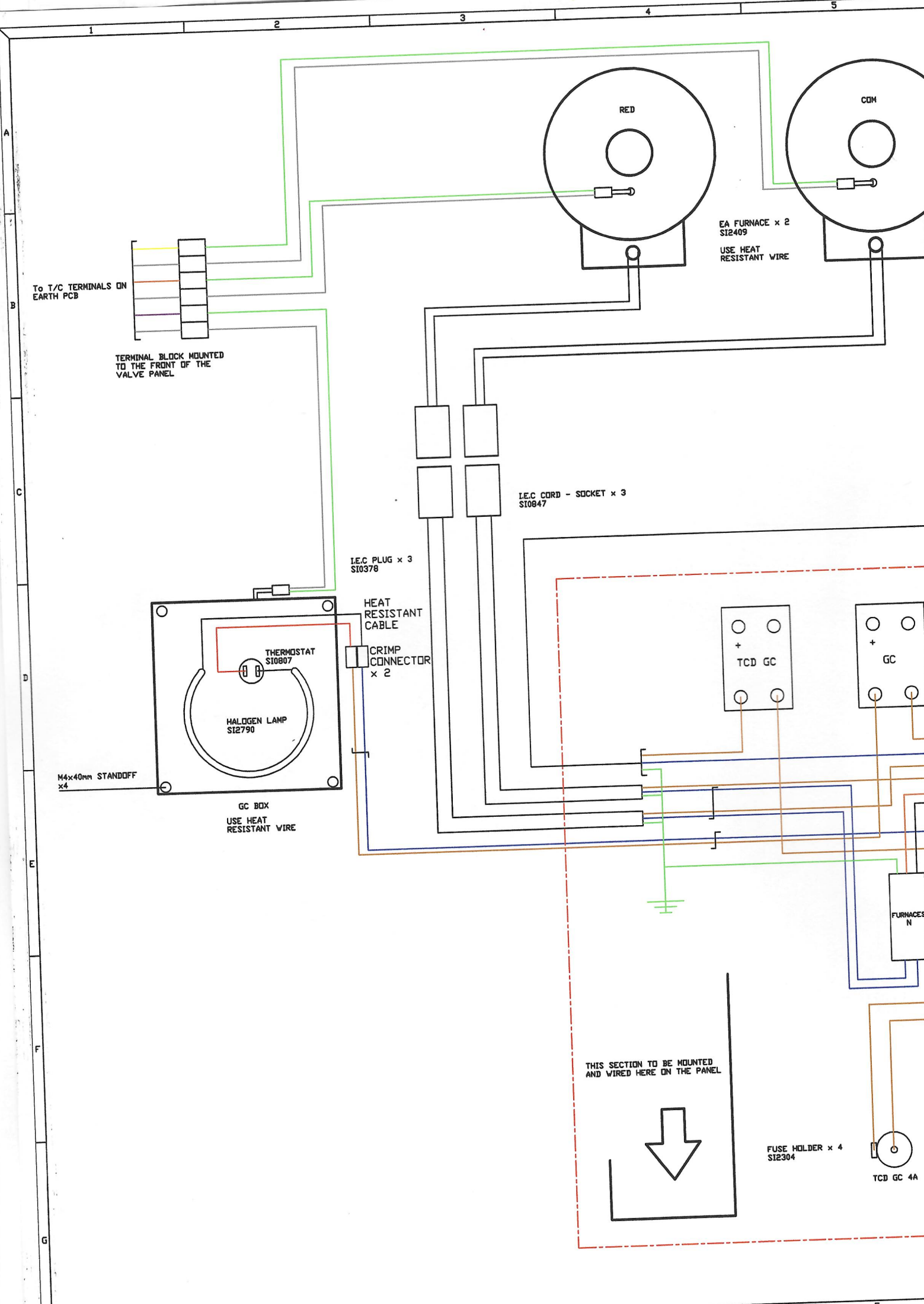
IN 1378
INITIAL: MR
DATE: 19/3/26



TOROIDAL TRANSFORMER 1000VA
S10581

THIS SHOULD BE MOUNTED BETWEEN THE PANEL AND THE FURNACES

ID	CHANGES TO WIRING DETAILS	20-08-21	C3
DV	HALOGEN LAMP UPGRADE	05-08-20	C2
DV	ISSUED FOR MANUFACTURE	04-12-19	C1
MOD	ISSUED BY	DESCRIPTION	DATE
REMOVE ALL BURRS & SHARP EDGES		DO NOT SCALE	
MATL.	ALL DIMENSIONS IN MILLIMETRES		THIRD ANGLE
FINISH	TOLERANCES UNLESS OTHERWISE STATED		DRG. SIZE A1
		SCALE	
TITLE			DRG No
ISO EARTH WIRING - MAINS			10202-004-019
SERCON LTD			



To T/C TERMINALS ON
EARTH PCB

TERMINAL BLOCK MOUNTED
TO THE FRONT OF THE
VALVE PANEL

M4x40mm STANDOFF
x4

GC BOX
USE HEAT
RESISTANT WIRE

THERMOSTAT
SI0807

HALOGEN LAMP
SI2790

I.E.C. PLUG x 3
SI0378

HEAT
RESISTANT
CABLE

CRIMP
CONNECTOR
x 2

I.E.C. CORD - SOCKET x 3
SI0847

EA FURNACE x 2
SI2409

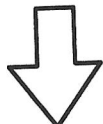
USE HEAT
RESISTANT WIRE

+
TCD GC

+
GC

FURNACES
N

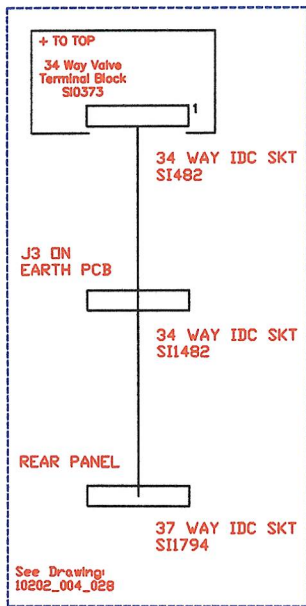
THIS SECTION TO BE MOUNTED
AND WIRED HERE ON THE PANEL



FUSE HOLDER x 4
SI2304

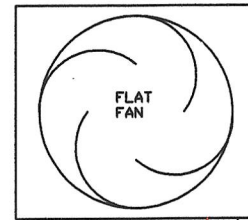
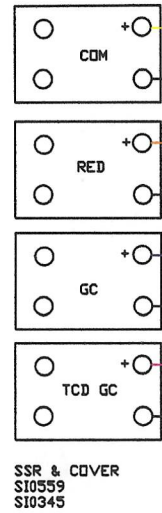


TCD GC 4A



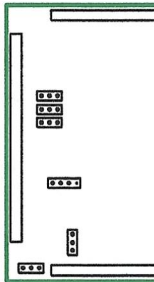
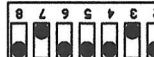
Valve 34TB No.

0	1,2
1	3,4
2	5,6
3	7,8
4	9,10
5	11,12
6	13,14
7	15,16
8	17,18
9	19,20
10	21,22
11	23,24
12	25,26
13	27,28
14	29,30
	31,32



Earth PCB: SI2582

DIP SWITCH SETU



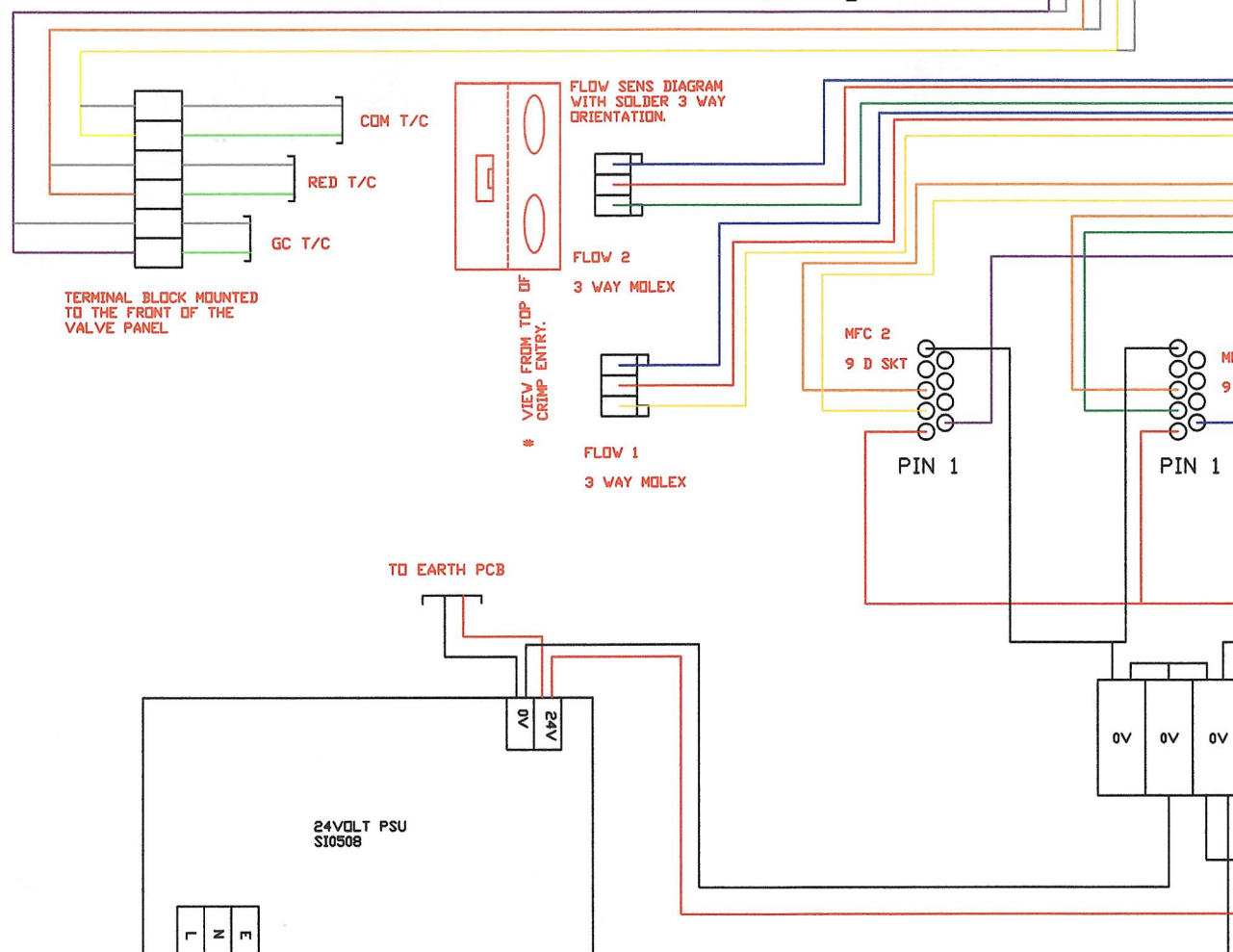
TO TCD
TERMINAL
BLOCK

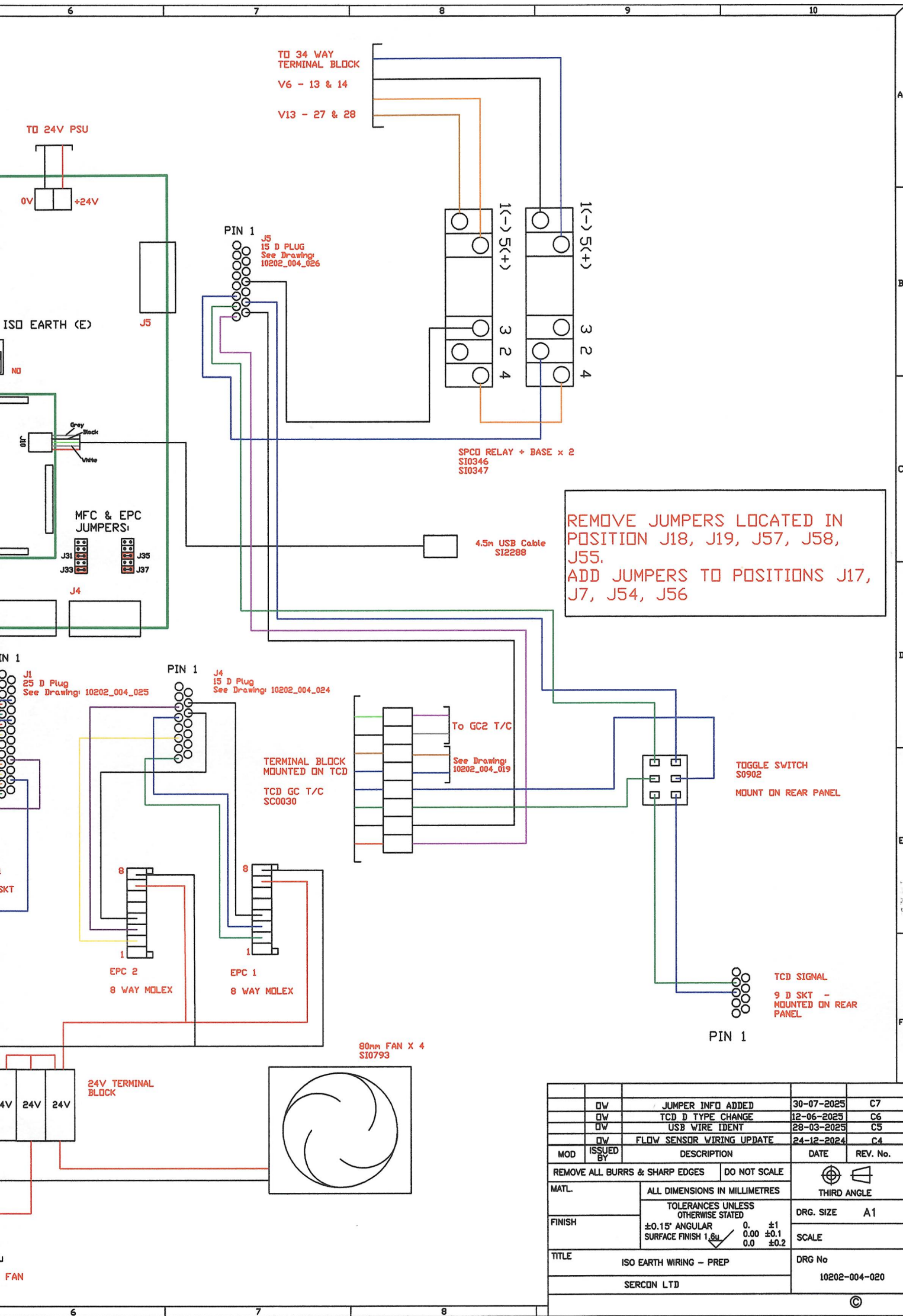


INI 1578

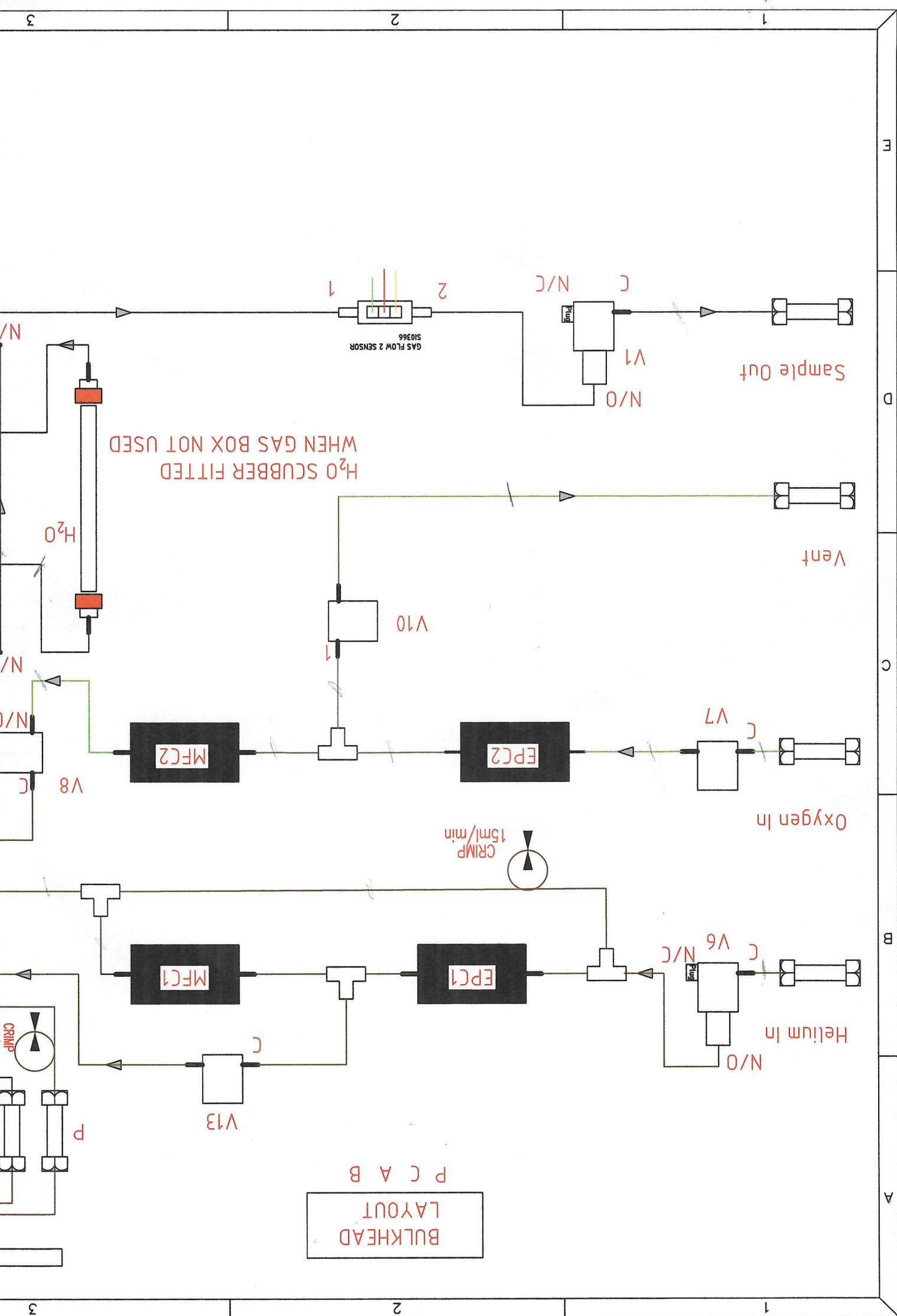
INITIAL: MR.

DATE: 22/05/20





	DW	JUMPER INFO ADDED	30-07-2025	C7
	DW	TCD D TYPE CHANGE	12-06-2025	C6
	DW	USB WIRE IDENT	28-03-2025	C5
	DW	FLOW SENSOR WIRING UPDATE	24-12-2024	C4
MOD	ISSUED BY	DESCRIPTION	DATE	REV. No.
REMOVE ALL BURRS & SHARP EDGES		DO NOT SCALE		
MATL.		ALL DIMENSIONS IN MILLIMETRES	THIRD ANGLE	
FINISH		TOLERANCES UNLESS OTHERWISE STATED	DRG. SIZE A1	
		±0.15° ANGULAR	0. ±1	SCALE
		SURFACE FINISH 1.6µ	0.00 ±0.1 0.0 ±0.2	
TITLE		ISO EARTH WIRING – PREP	DRG No	
		SERCON LTD	10202-004-020	
				



ISO EARTH PLUMBING		STRICTLY CONFIDENTIAL. COPYRIGHT SERCON LTD	
ISSUED BY	DESCRIPTION	DATE	REV. No.
JH	ADDED PURGE LINE	02/12/2021	C3
OW	GAS FLOW CHANGE	30/01/2024	034
OW	BULKHEAD LABELLING ADDED	14/03/2024	C4
OW	P AND C LABEL ADDED	16/07/2024	C5

DRG No 10202/004/034



IN 1378
INITIAL: SW
DATE: 13/3/26

*Back of unit where HT-EA GC connection's - Don't label O2 in/out

