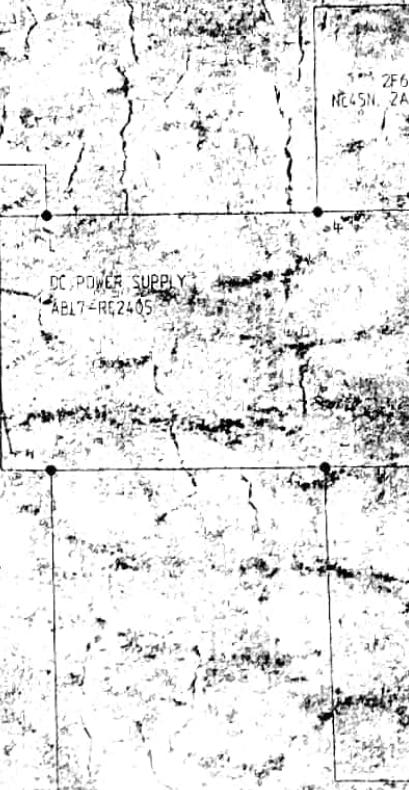
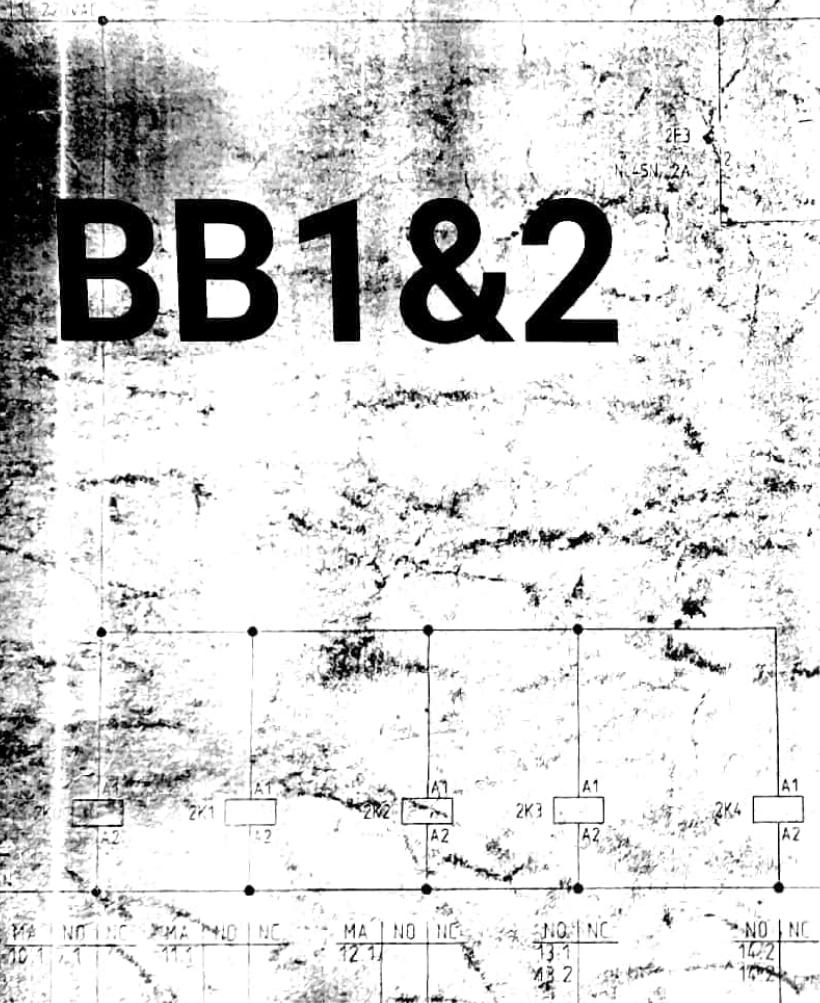


# BB1&2



sheet 2

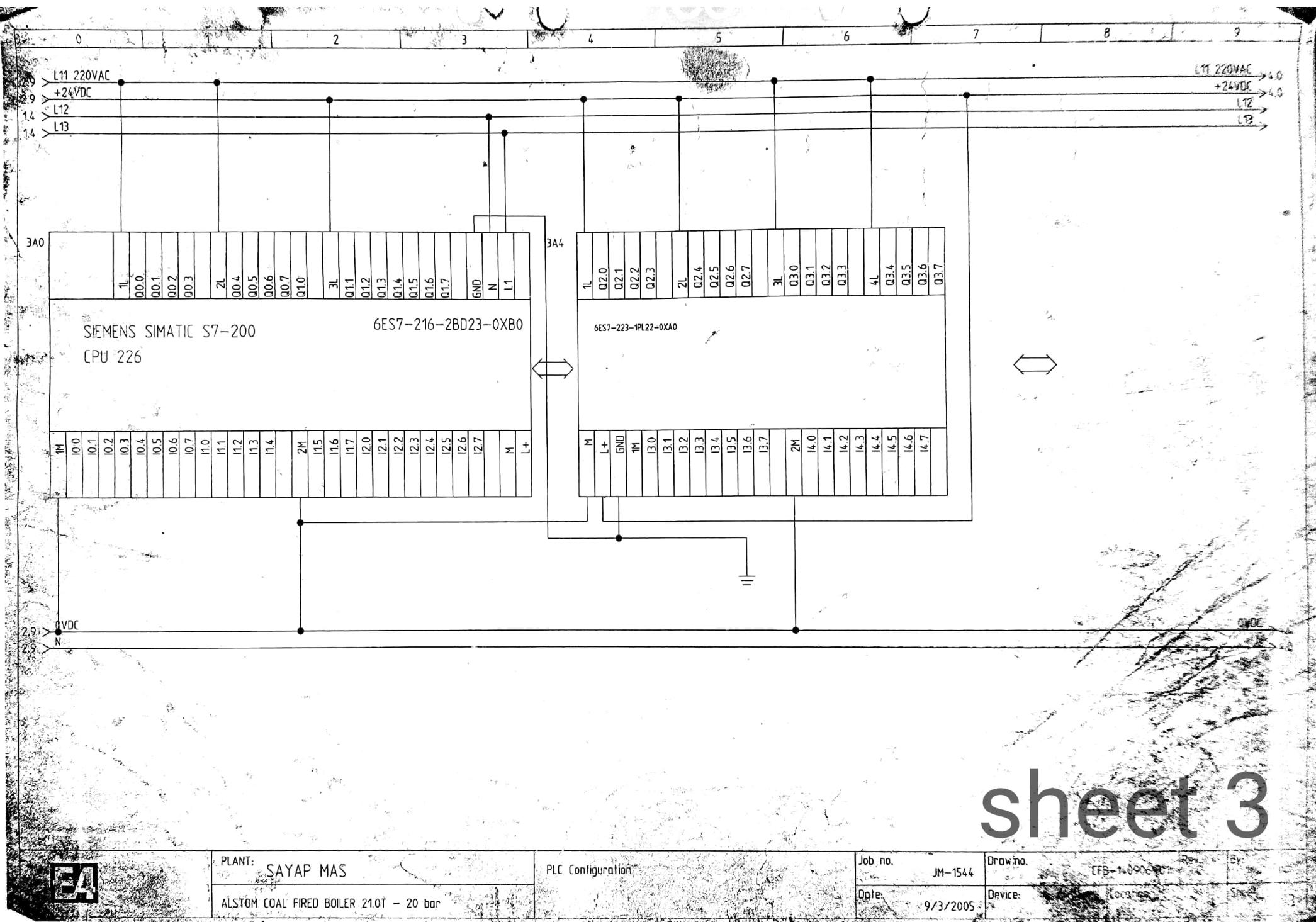
EA

PLANT  
SAVAPMAS

ALSTOM GULF FIRED BOILER 21.0T - 20 DBC

Power Supply

JGD No. 3-14-164-1  
Date 9/3/07



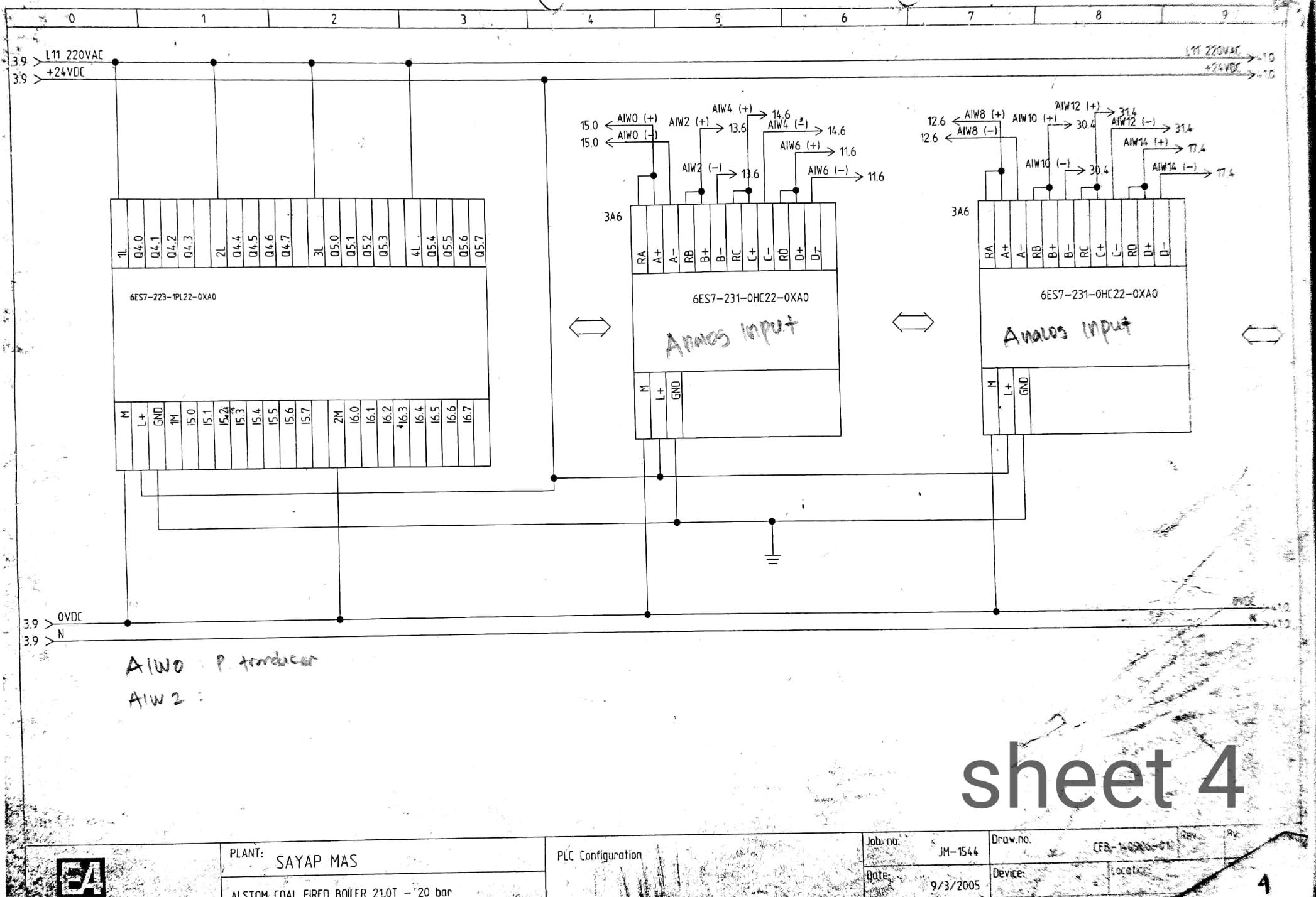
sheet 3

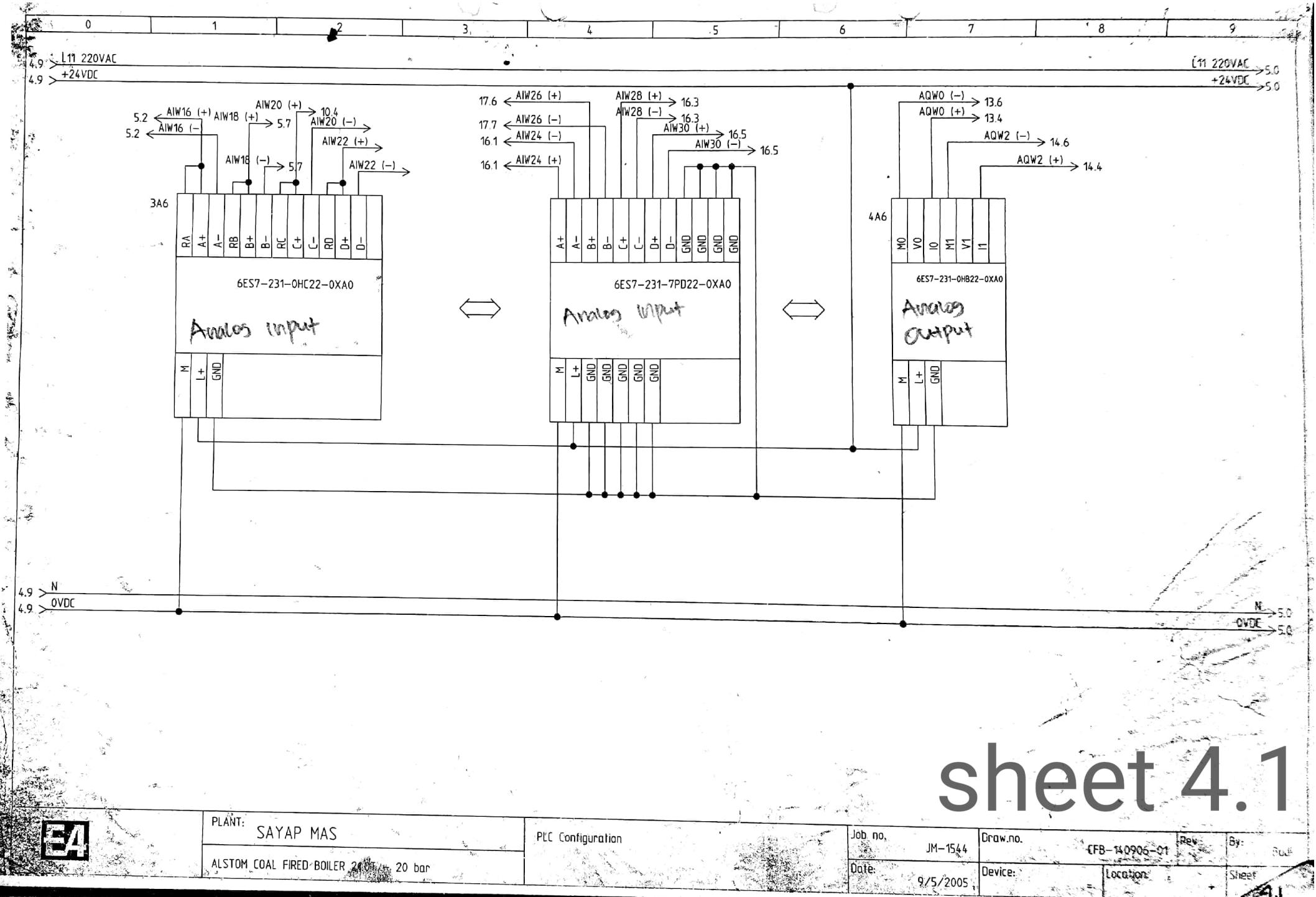


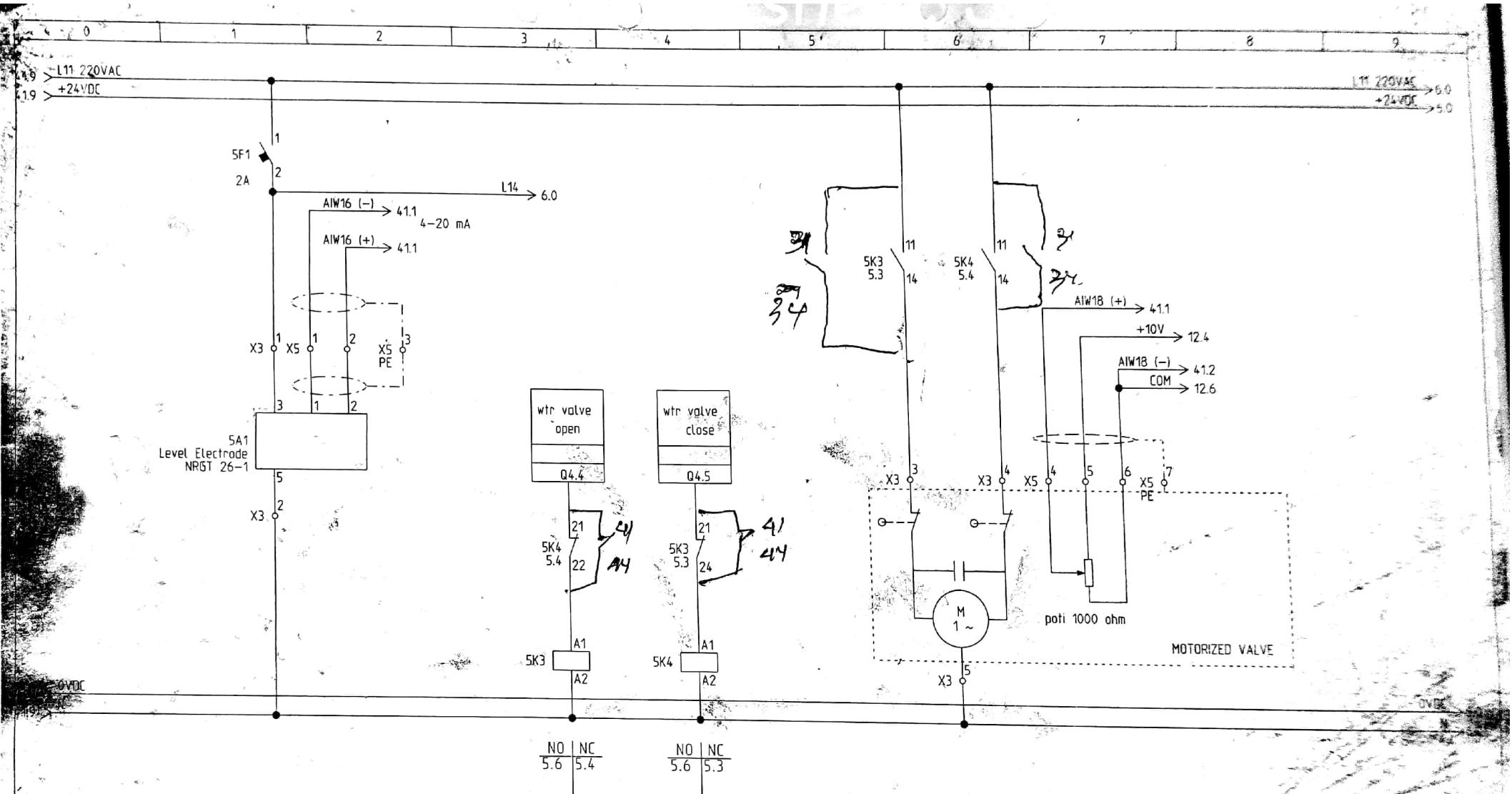
PLANT: SAYAP MAS  
ALSTOM COAL FIRED BOILER 21t - 20 bar

PLC Configuration

Job no. JM-1544 Drawn by TFB-1090C Rev. BY  
Date: 9/3/2005 Device: Logitech

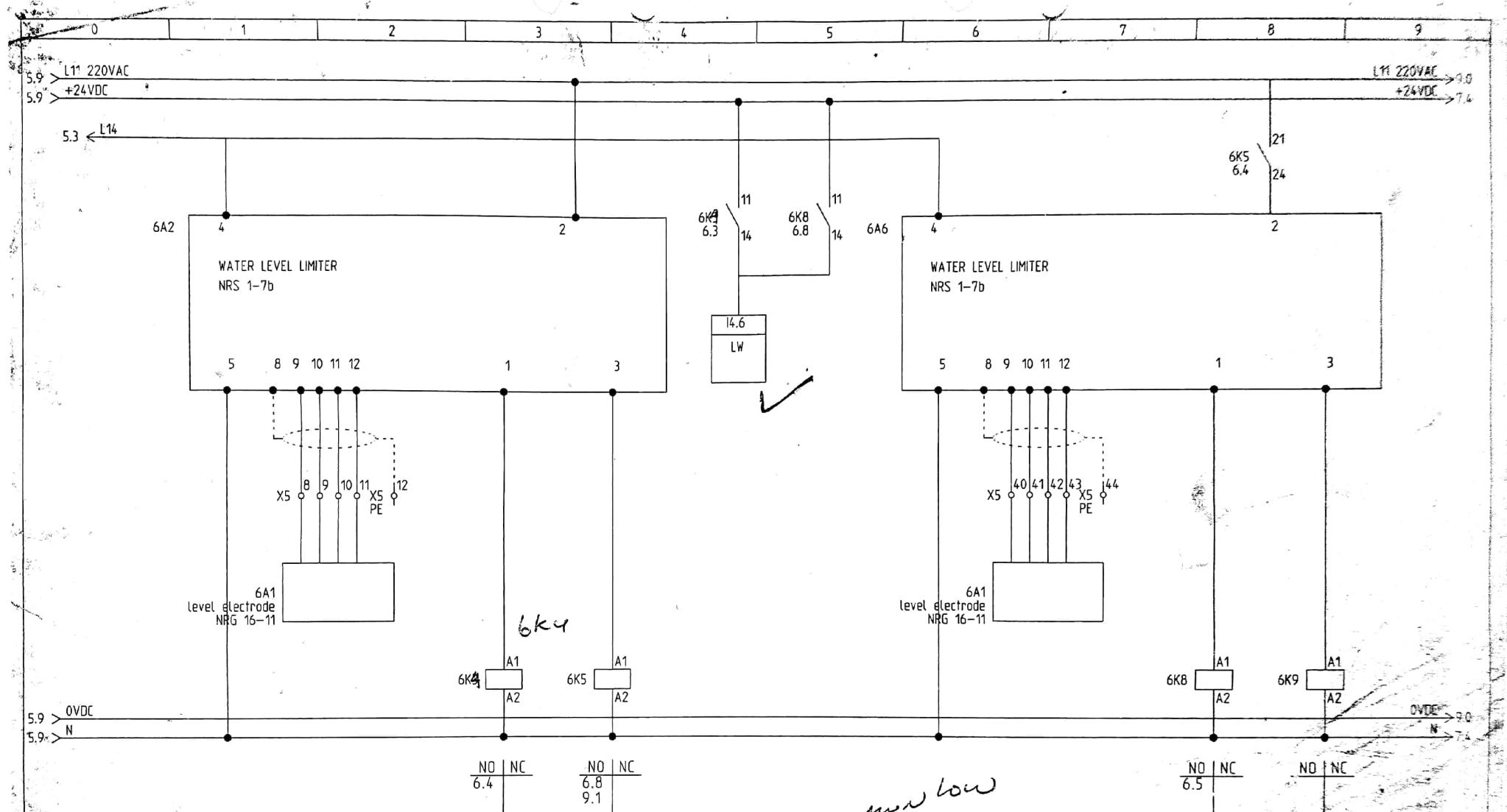






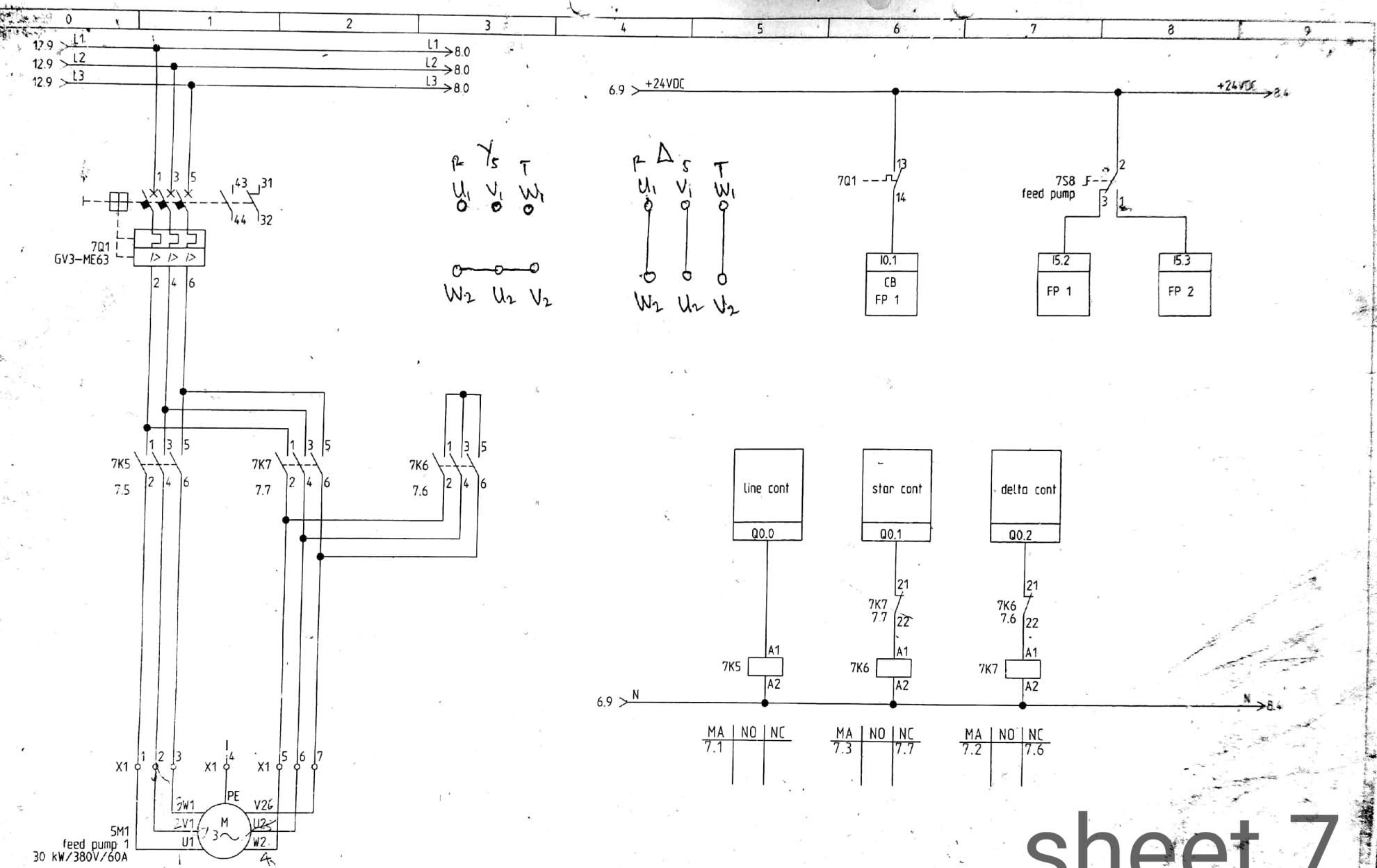
# sheet 5

EA	PLANT: SAYAP MAS ALSTOM COAL FIRED BOILER 21.0T ~ 20 bar	Continuous Feeding	Job no. JM-1544	Draw.no. CFB-14.0906-07	Rev. 1	By Budi
		Date: 9/3/2005	Device: LOCATOR			Sheet



# sheet 6

PLANT:	SAYAP MAS	Water Level Limiter	Job no.	JM-1545	Draw.no.	CFB-140906-01	Rev.	By:	Rudi
ALSTOM COAL FIRED BOILER 21.01 - 20 bar			Date:	9/3/2005	Device:	=	Location:	=	Sheet
									6



# sheet 7

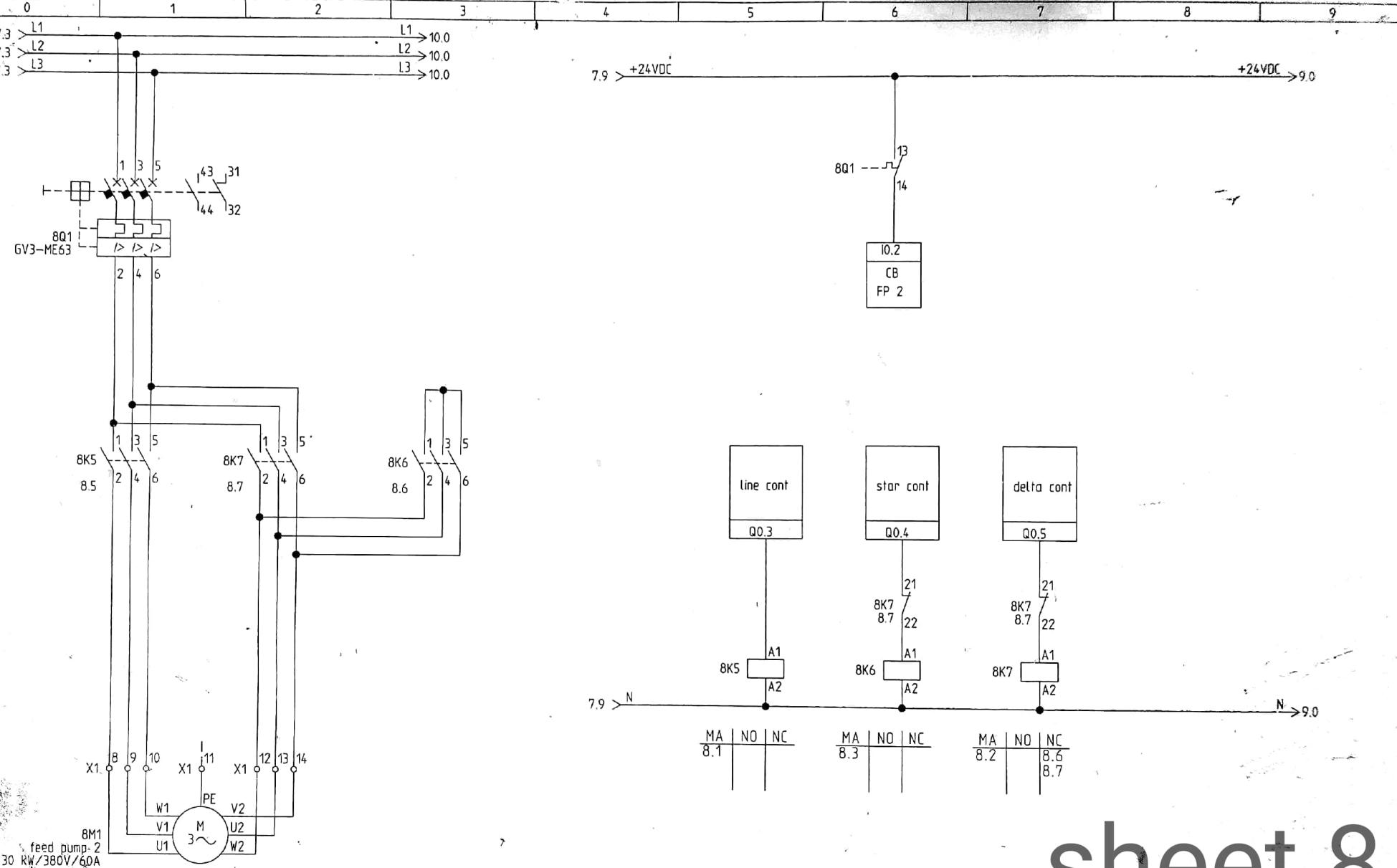


PLANT:  
SAYAP MAS

ALSTOM COAL FIRED BOILER 210T 20 bar

Feed Pump 1

Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	Sp.	Bud.
Date:	9/3/2005	Device:	Locations	Sheet		



# sheet 8



PLANT: SAYAP MAS

ALSTOM COAL FIRED BOILER 210T - 20 bar

Feed Pump 2

Job no.

JM-1544

Draw.no.

CFB-140906-01

Rev.

Bv

Bud

Date:

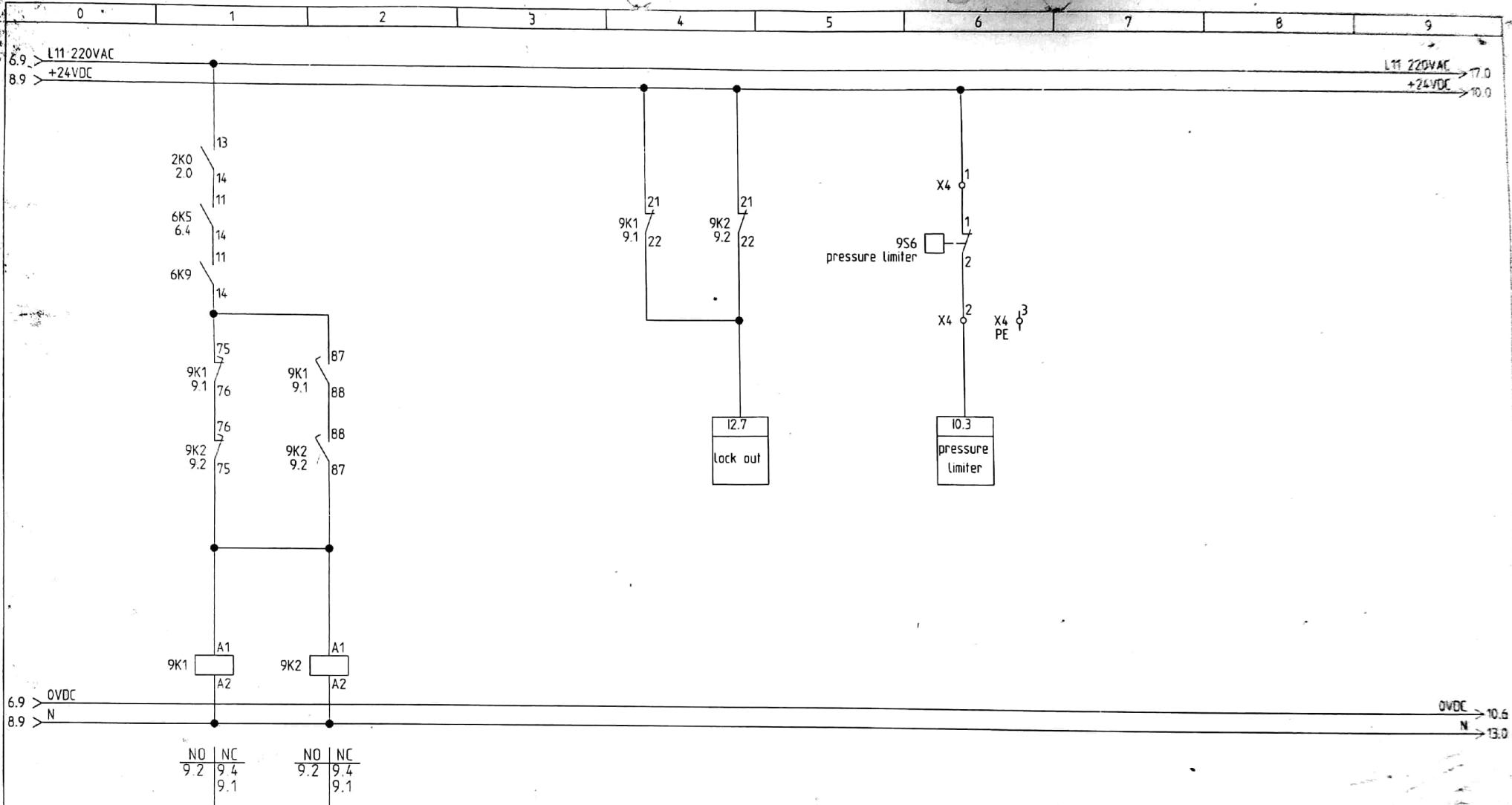
9/3/2005

Device:

=

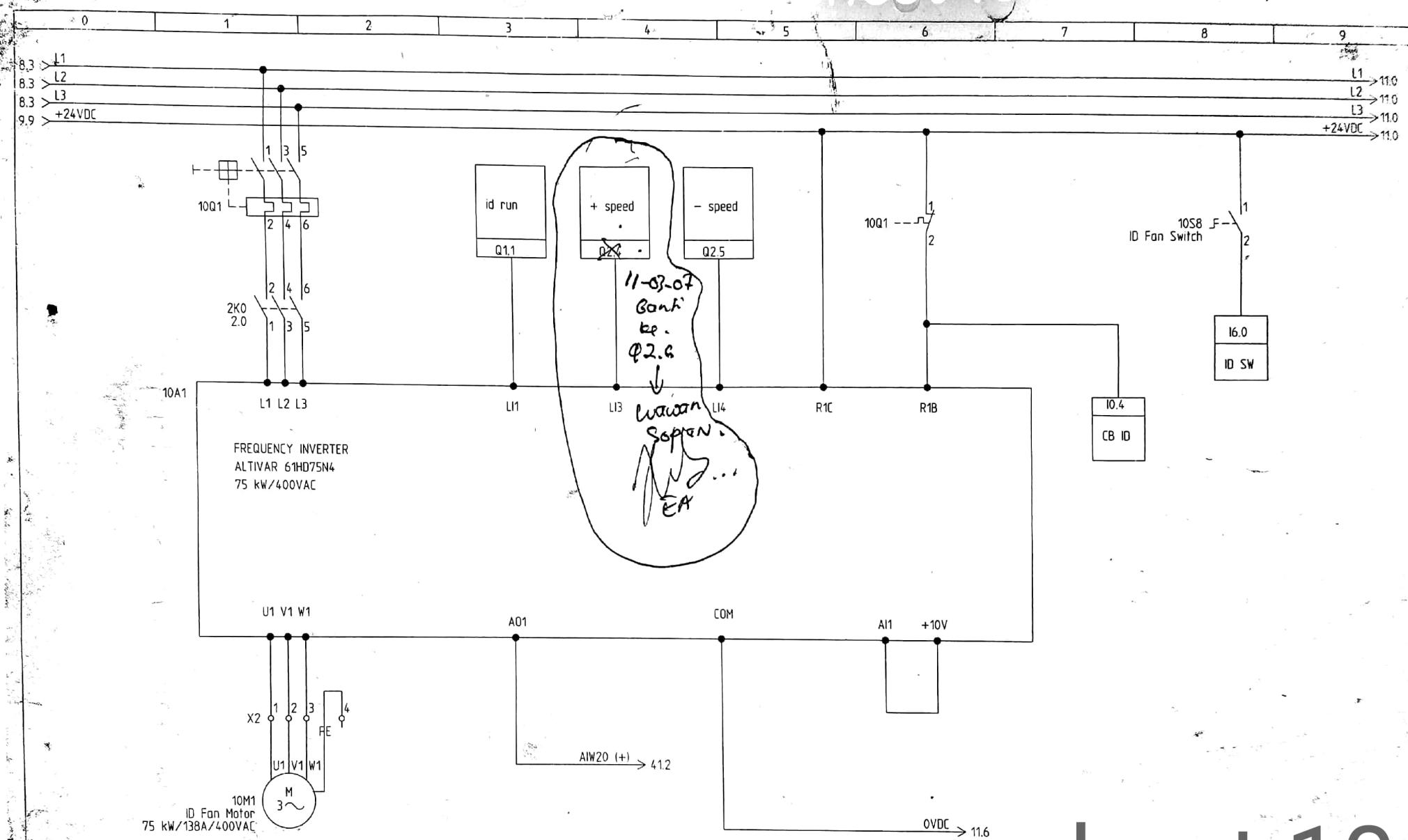
Location:

=



# sheet 9

<b>EA</b>	PLANT: SAYAP MAS  ALSTOM COAL FIRED BOILER 210T - 20 bar	Safety Chain	Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By:	Sud
			Date:	9/3/2005	Device:	=	Location:	+	Sheet 9



# sheet 10

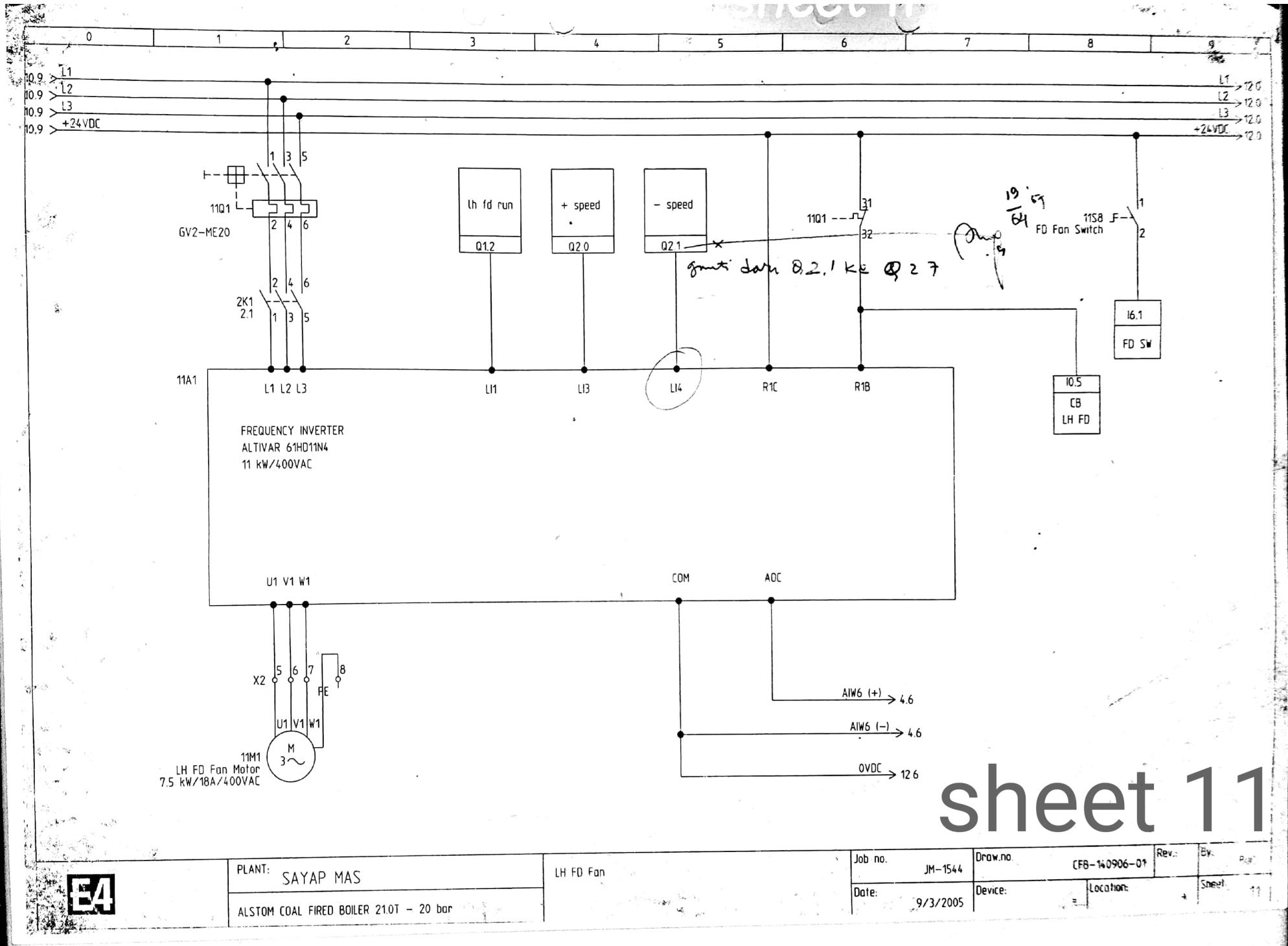


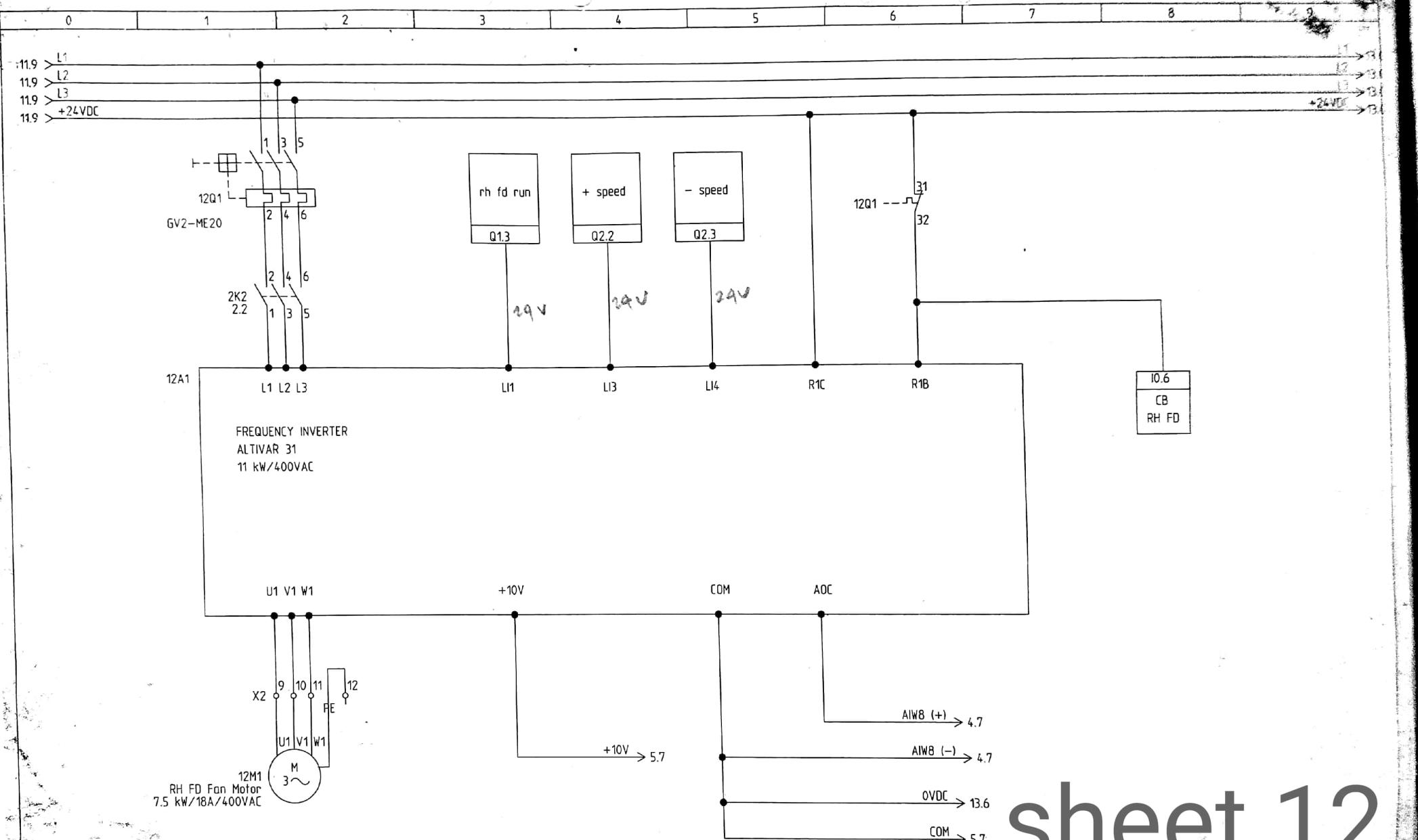
PLANT:  
SAYAP MAS

ALSTOM COAL FIRED BOILER 21.0T - 20 bar

ID Fan

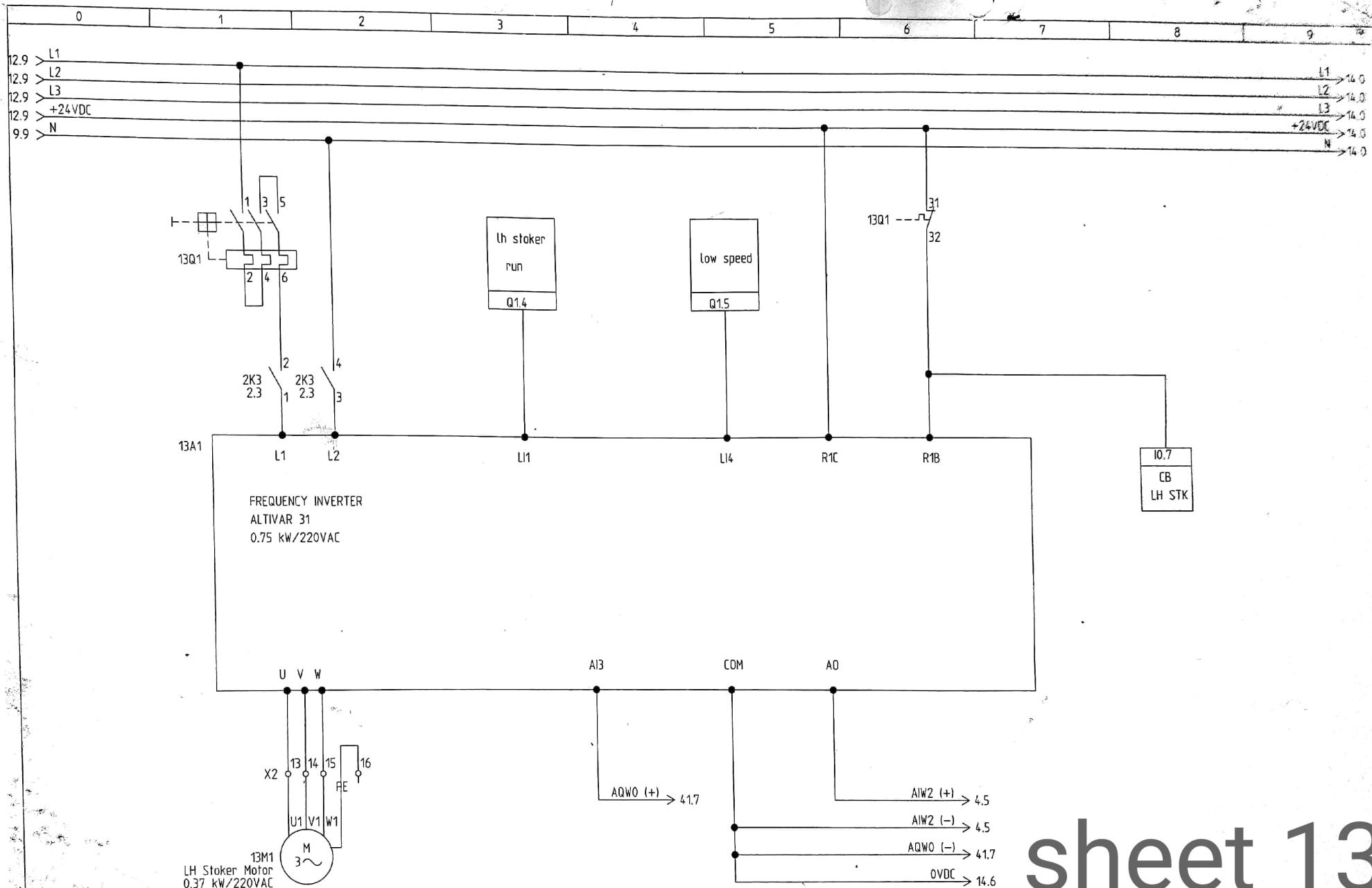
Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By
Date:	9/3/2005	Device:		Location:	Sheet





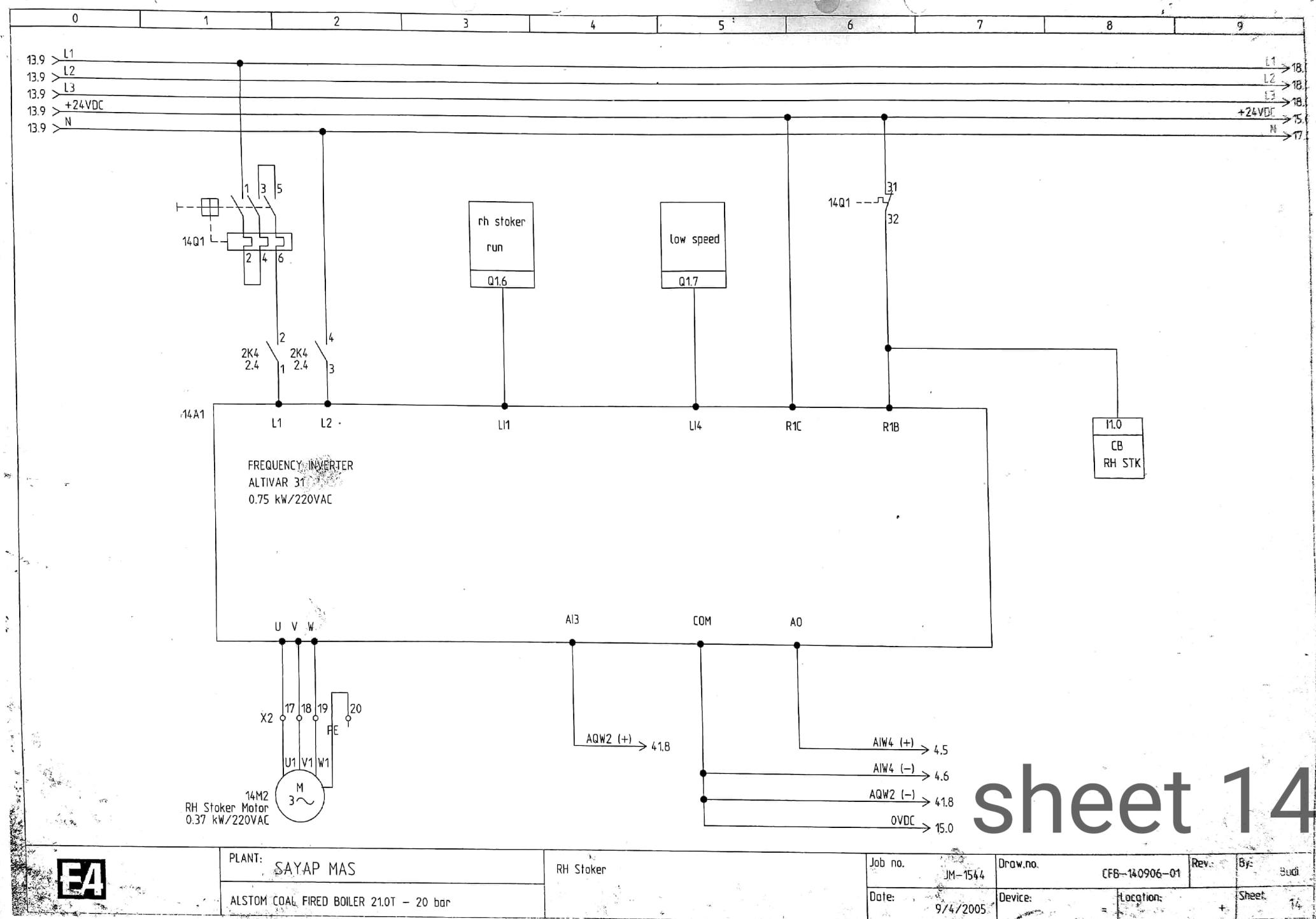
# sheet 12

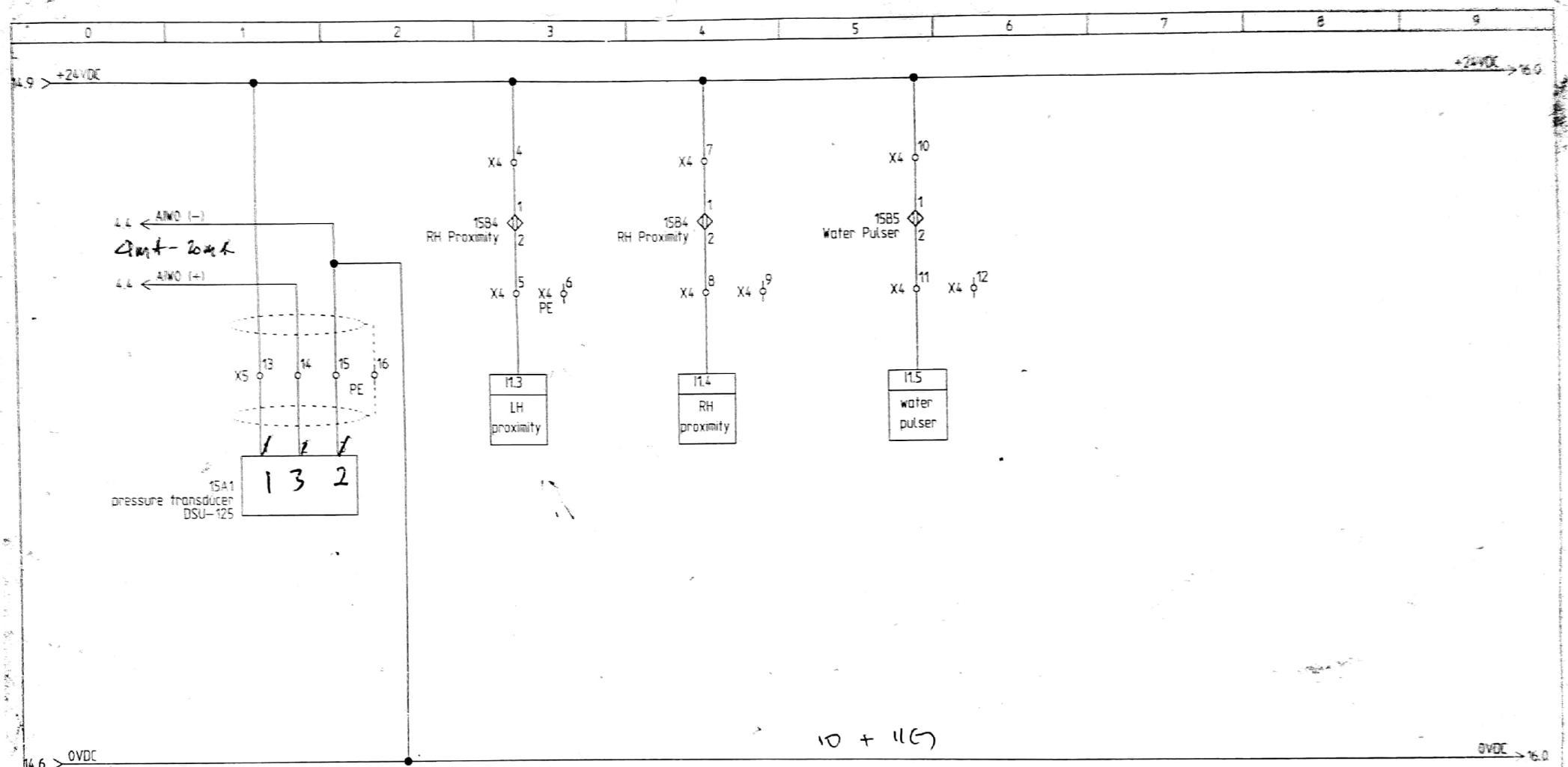
PLANT:	SAYAP MAS	RH FD Fan	Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By	Bud
ALSTOM COAL FIRED BOILER 21.0T - 20 bar			Date:	9/3/2005	Device:	Location		Sheet	12
<b>E4</b>									



# sheet 13

<b>E4</b>	<b>PLANT:</b> SAYAP MAS <b>ALSTOM COAL FIRED BOILER 21.0T - 20 bar</b>	<b>LH Stoker</b>	<b>Job no.</b> JM-1544 <b>Date:</b> 9/3/2005	<b>Draw.no.</b> CFB-140906-01 <b>Device:</b> = <b>Location:</b> + <b>Sheet:</b> 13
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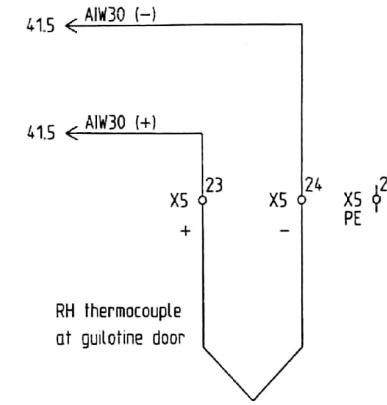
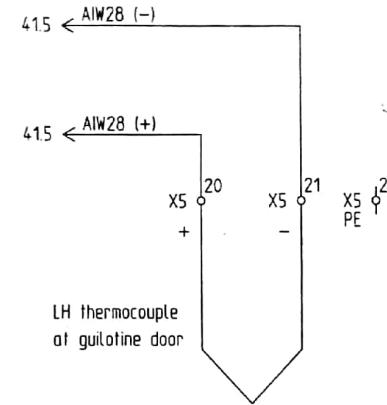
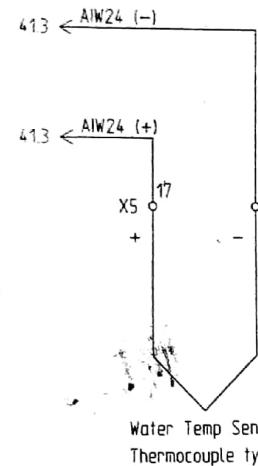
# sheet 15

E4	PLANT: SAYAP MAS  ALSTOM COAL FIRED BOILER 21.0T - 20 bar	LH & RH Proximity Water Pulser	Job no. JM-1544	Draw.no. CFS-140906-01	Rev. B	By S
			Date: 9/4/2005	Device: =	Location: =	Sheet 15

0 1 2 3 4 5 6 7 8 9

15.9 > +24VDC

+24VDC → 19.0



15.9 > 0VDC

0VDC → 19.0

sheet 16



PLANT: SAYAP MAS  
ALSTOM COAL FIRED BOILER 21.0T - 20 bar

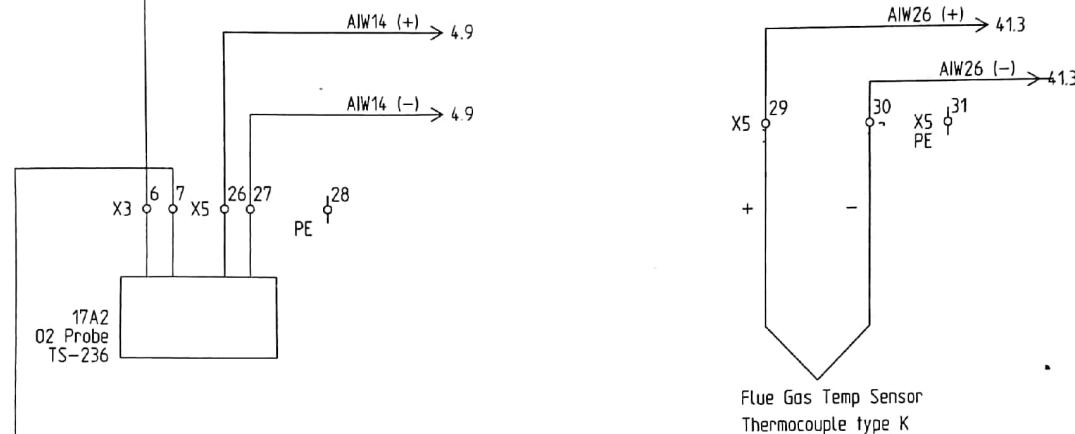
Water Temperature Sensor  
LH Burnback Sensor  
RH Burnback Sensor

Job no.	Draw.no.	Date:	Device:	Location:	Rev.	By	Sheet
JM-1544	EFB-140906-01	9/4/2005	=	+			16

0 1 2 3 4 5 6 7 8 9

9.9 > L11 220VAC

L11 220VAC → 19.0



14.9 > N → 19.0

sheet 17

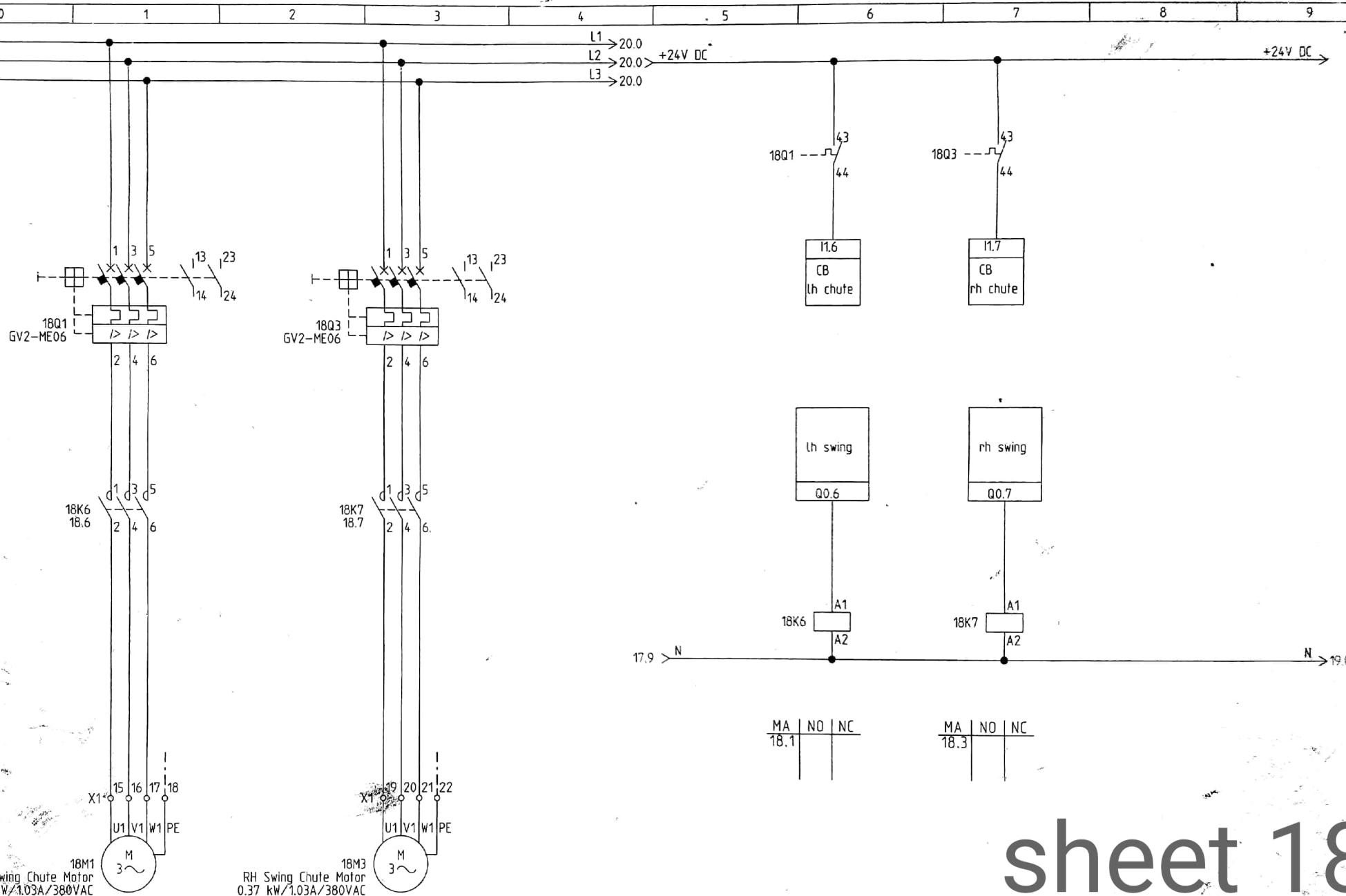


PLANT: SAYAP MAS

ALSTOM COAL FIRED BOILER 21.0T - 20 bar

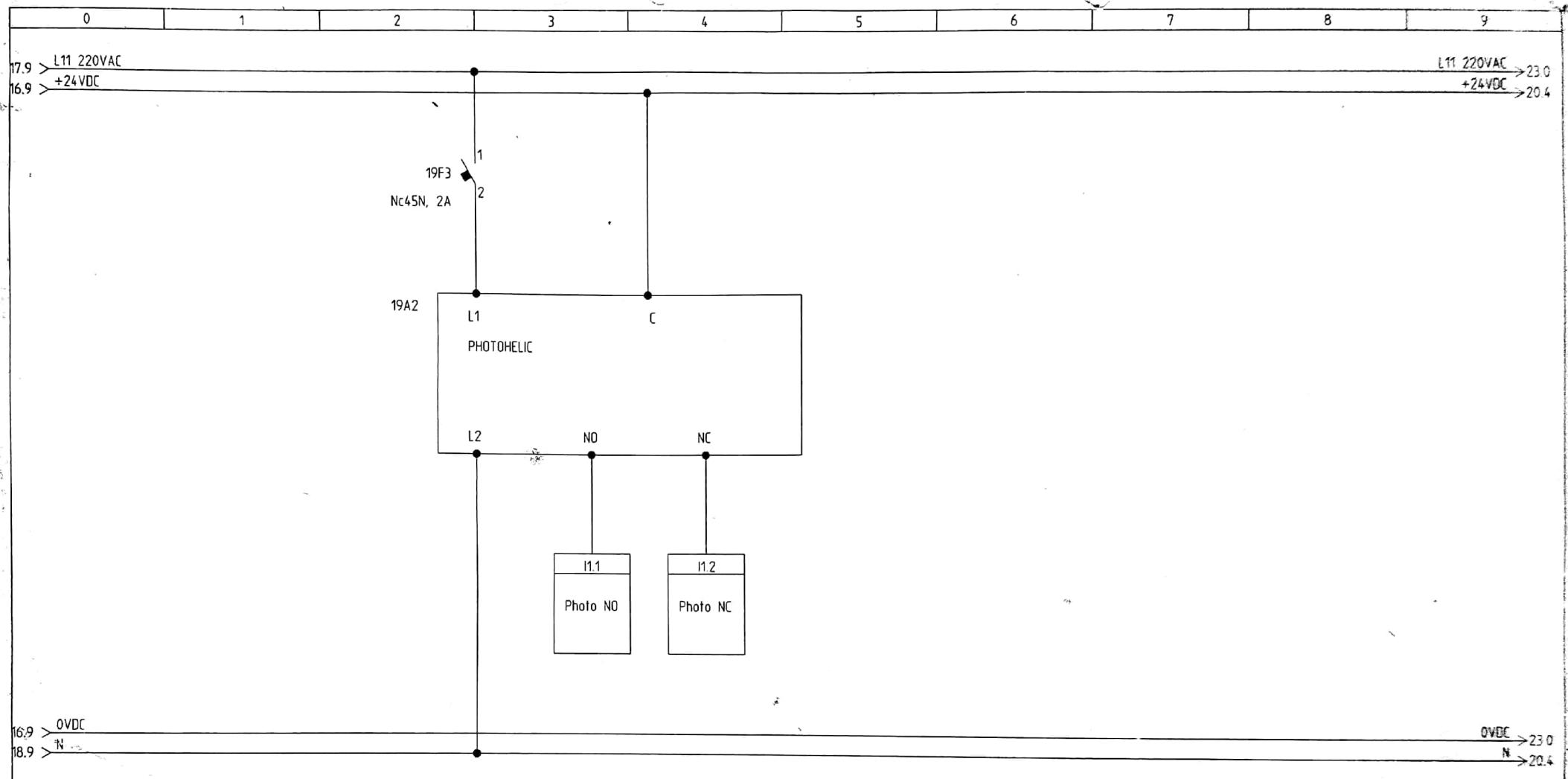
Oxygen Analyzer Sensor  
Flue Gas Temp Sensor

Job no.	Draw.no.	Date:	Rev.	By:
JM-1544	CFB-140906-01	9/4/2005	+	Sheet 17



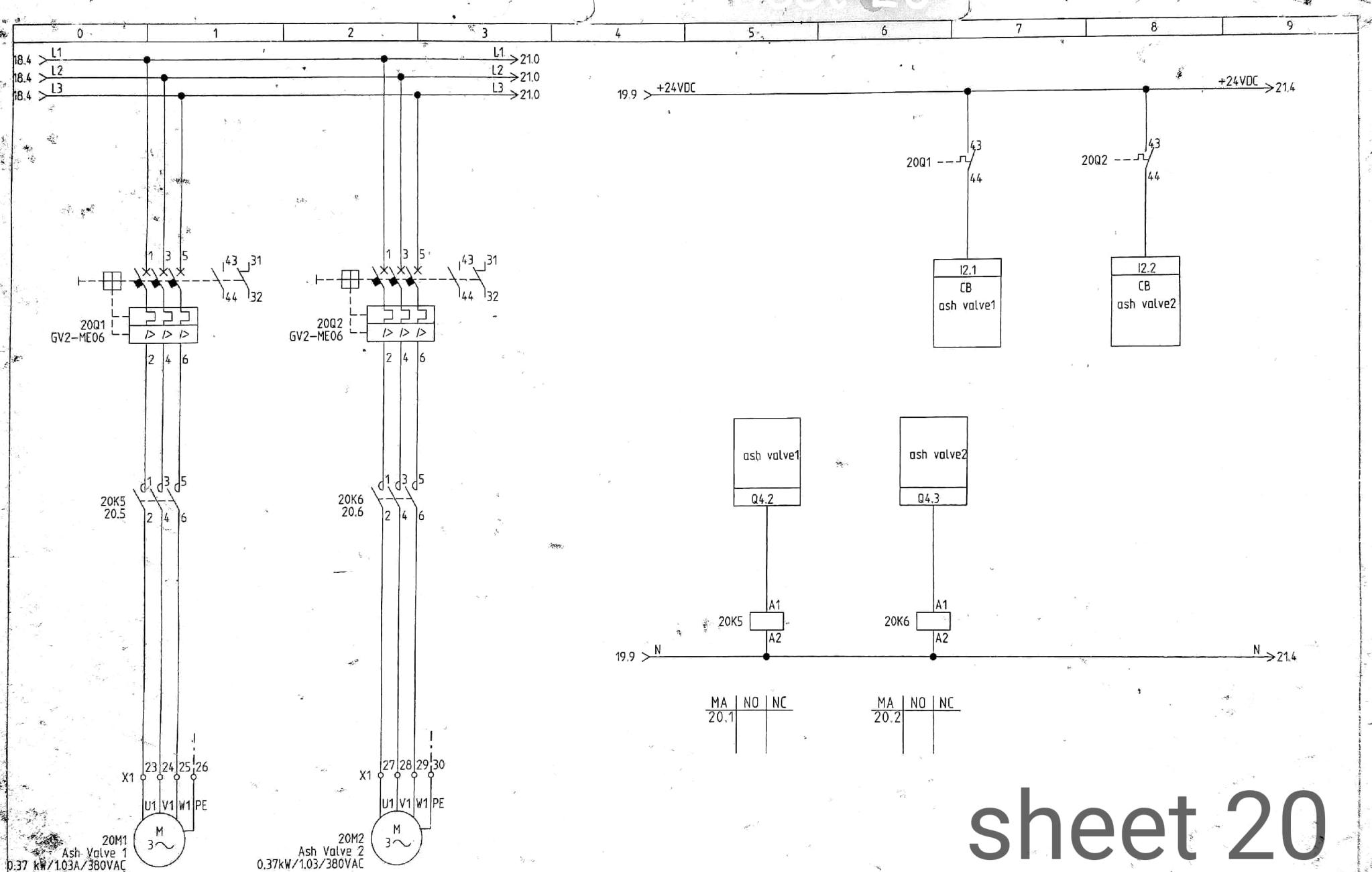
# sheet 18

PLANT:	SAYAP MAS	Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By:	Bud:
ALSTOM COAL FIRED BOILER 21.0T - 20 bar	Swing Chute	Date:	9/4/2005	Device:	Location:	Sheet	18	



sheet 19

<b>EA</b>	PLANT: SAYAP MAS  ALSTOM COAL FIRED BOILER 21.0T - 20 bar	Photohelic	Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By:	Bud:
			Date:	9/4/2005	Device:	Location:	+	Sheet	19



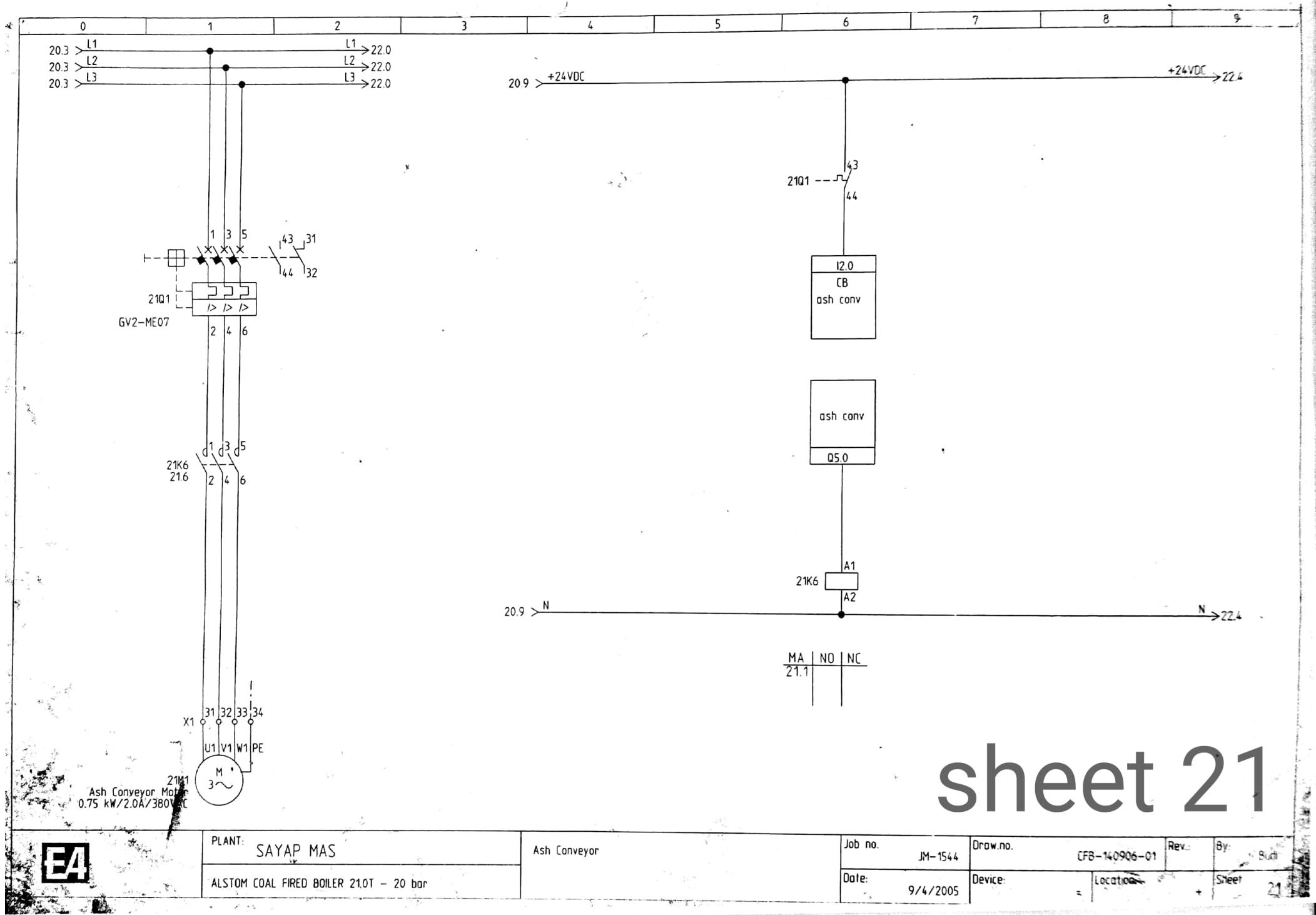
# sheet 20



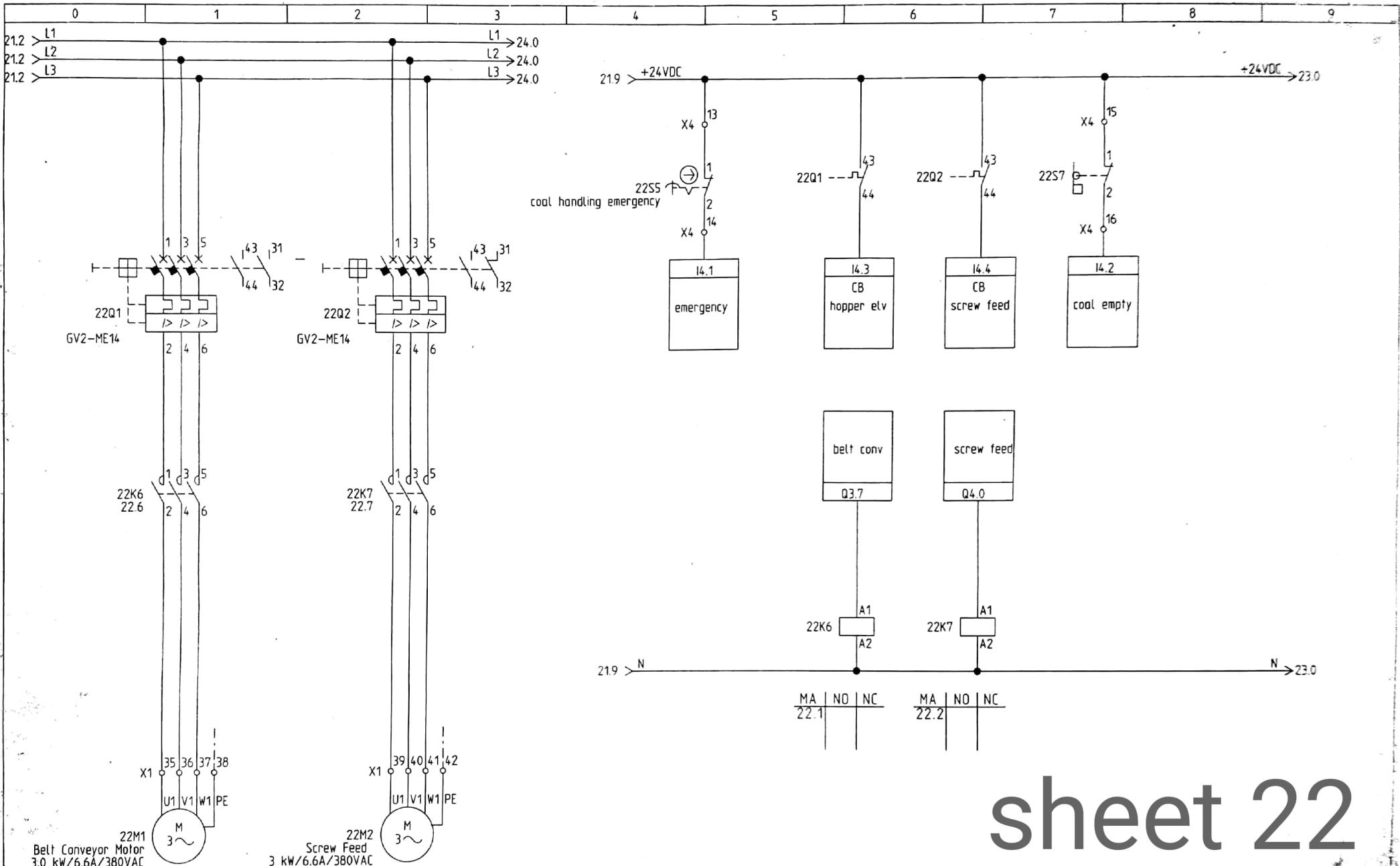
PLANT: SAYAP MAS  
ALSTOM COAL FIRED BOILER 21.0T - 20 bar

Ash Valve

Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By:
Date:	9/4/2005	Device:	Location:	Sheet	

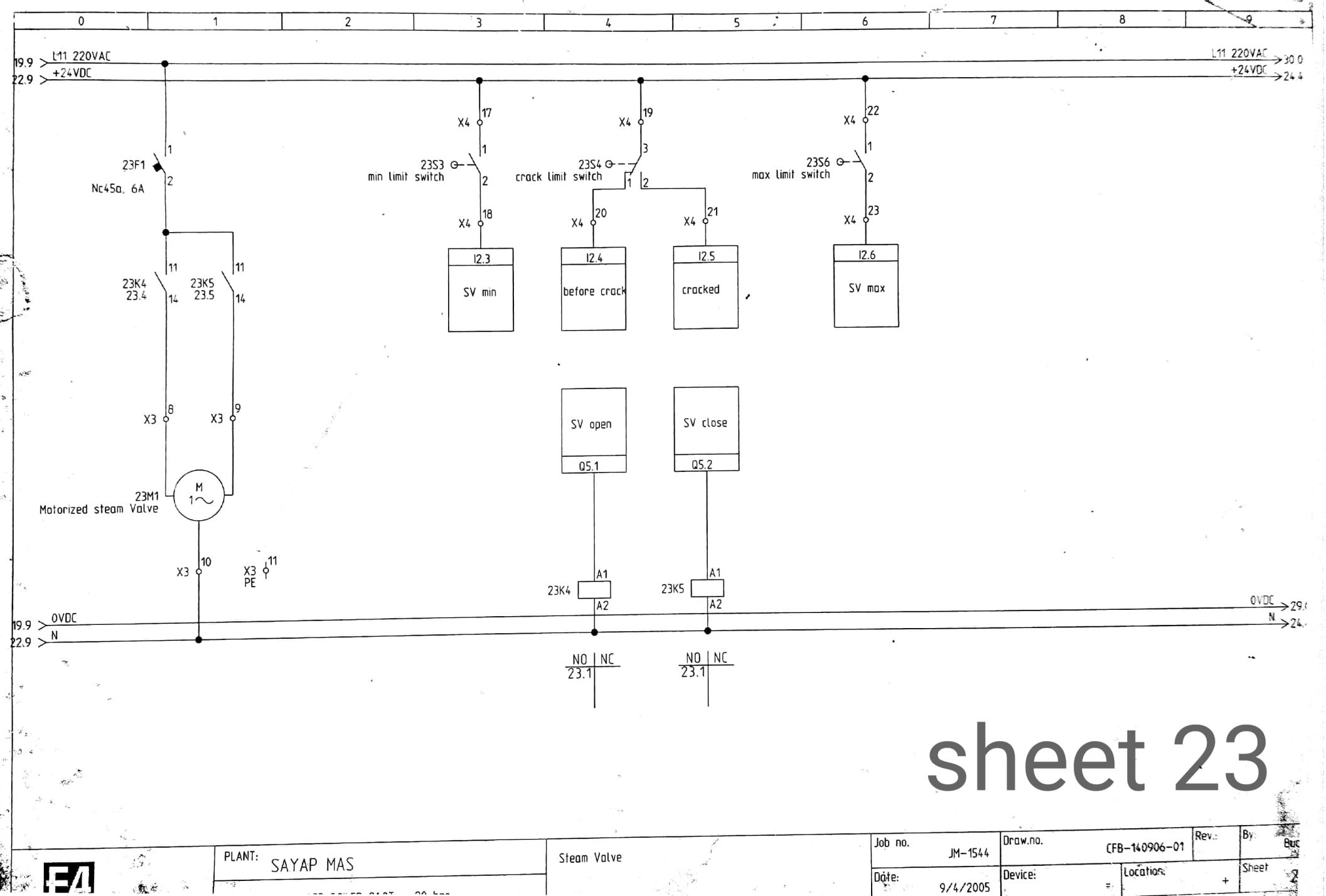


# sheet 21



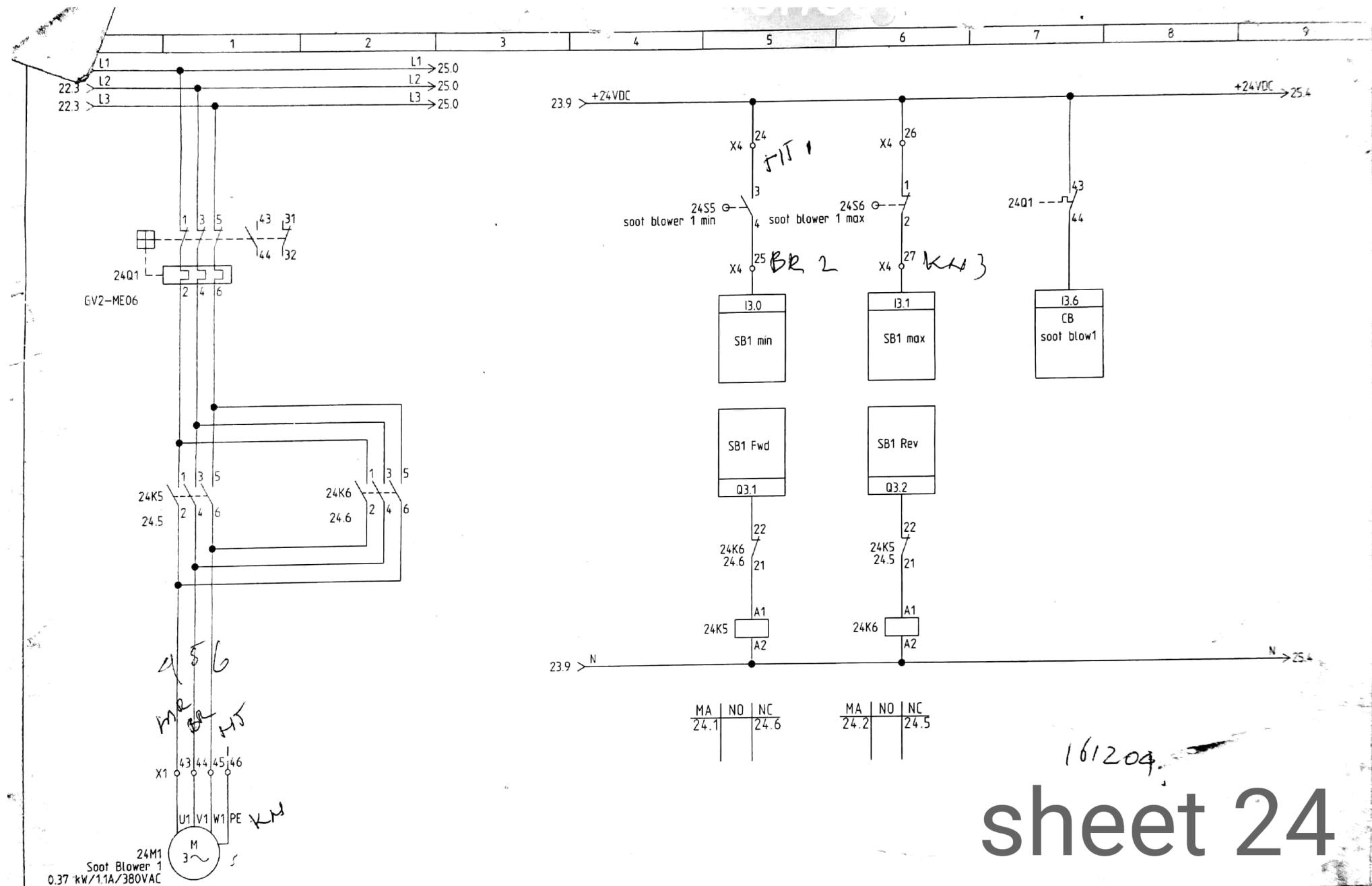
# sheet 22

EA	PLANT: SAYAP MAS ALSTOM COAL FIRED BOILER 21.0T - 20 bar	Coal Handling	Job no. JM-1544	Draw.no. CFB-140906-01	Rev. B	By 5402
			Date: 9/4/2005	Device: =	Location: +	Sheet 22



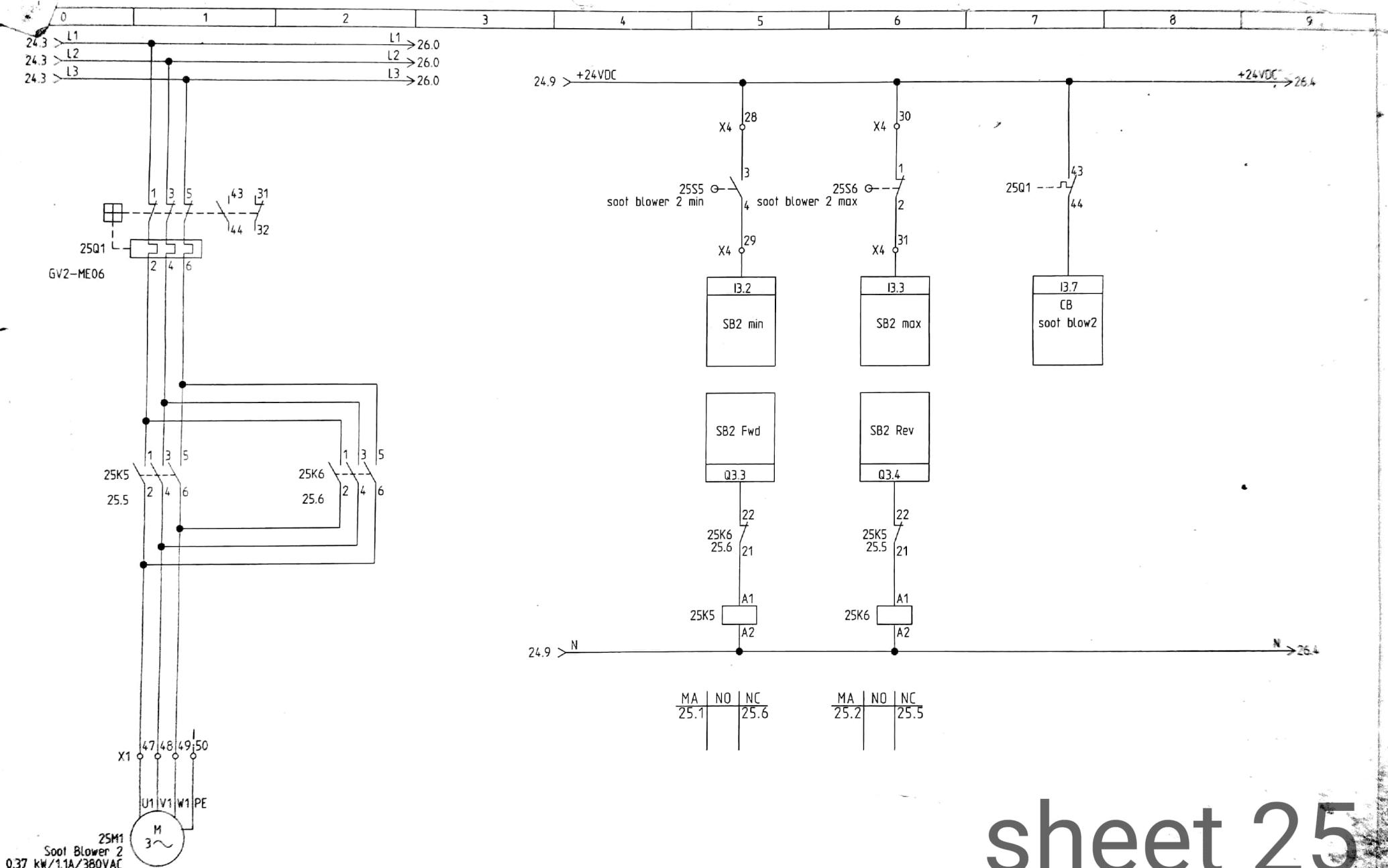
# sheet 23

PLANT:	SAYAP MAS	Steam Valve	Job no.	JM-1544	Draw.no.	CFB-140906-01	Rev.	By:
Date:	9/4/2005	Device:	Location:		Sheet			



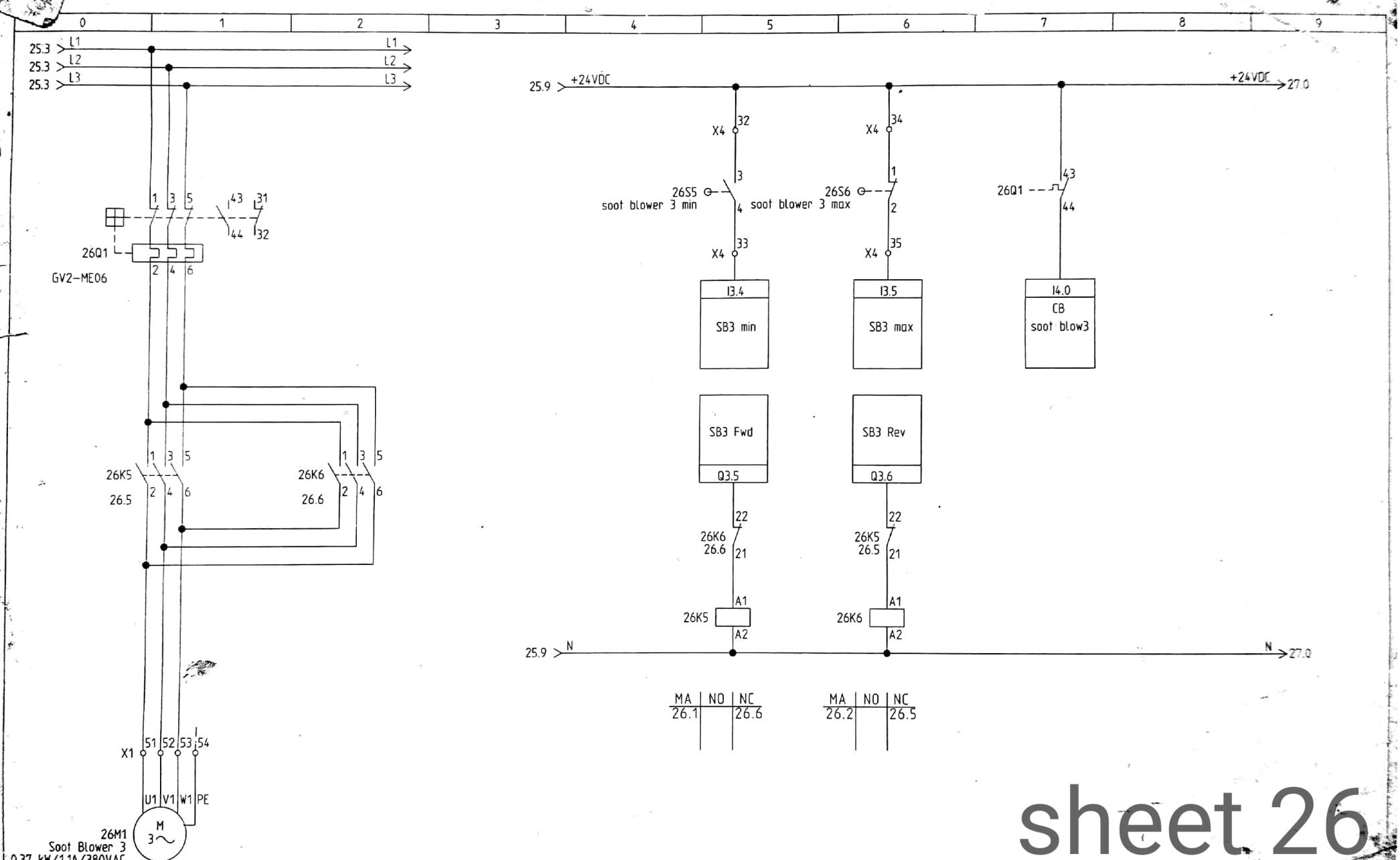
sheet 24

EA	PLANT: SAYAP MAS ALSTOM COAL FIRED BOILER 210T - 20 bar	Soot Blower 1	Job no. JM-1544	Draw.no. EFB-140906-01	Rev. 5
			Date: 9/4/2005	Device: Location	Sheet 24

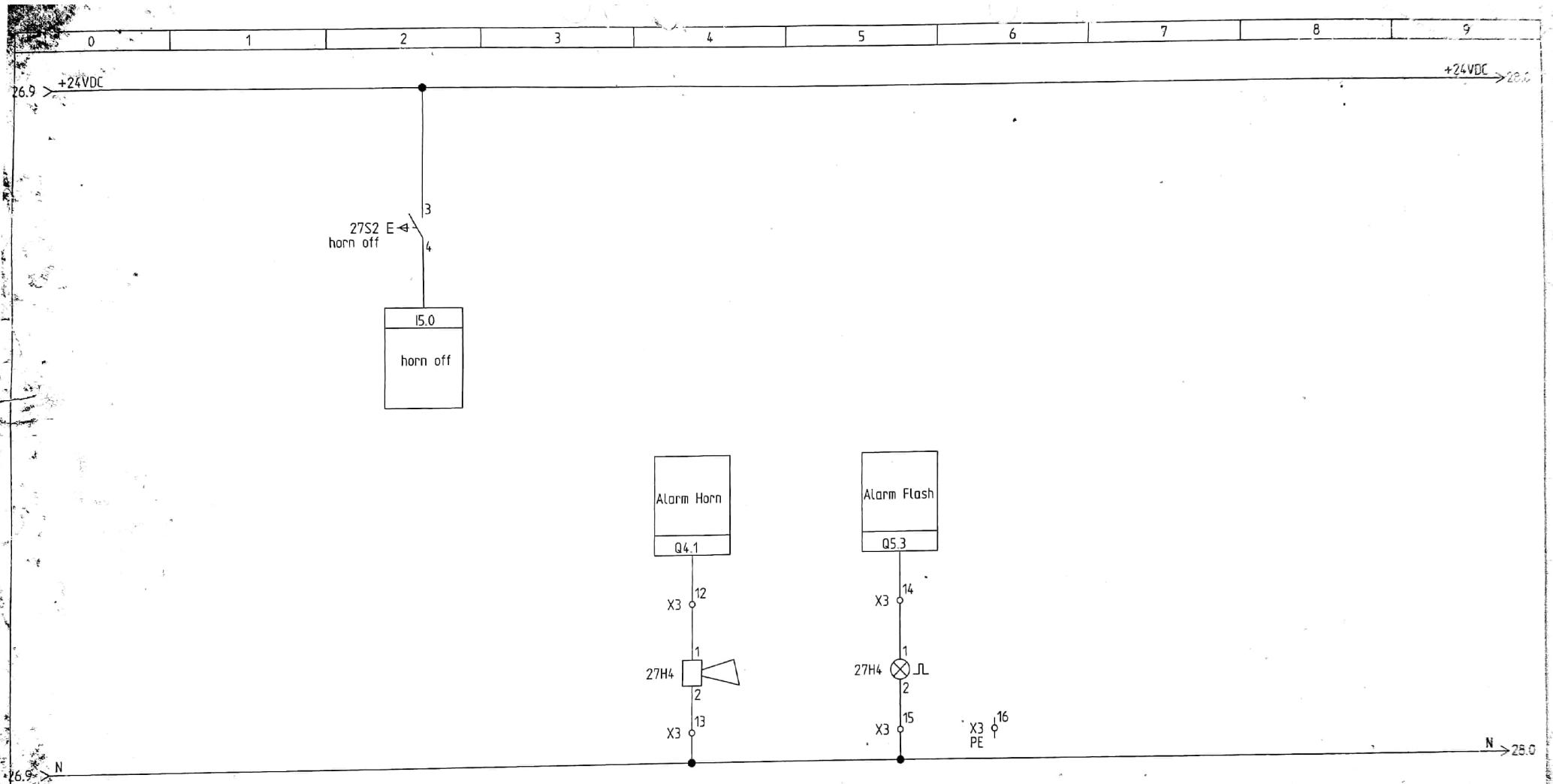


# sheet 25

EA	PLANT: SAYAP MAS ALSTOM COAL FIRED BOILER 21.0T - 20 bar	Soot Blower 2	Job no. JM-1544	Draw.no. CFB-140906-01	Rev. Sheet
			Date: 9/4/2005	Device: Location: +	



<b>E4</b>	PLANT: SAYAP MAS ALSTOM COAL FIRED BOILER 21.0T - 20 bar	Soot Blower 3	Job no. JM-1544	Draw.no. CFB-16706-01	By: Bam
			Date: 9/4/2005	Device: =	Location: + Sheet:



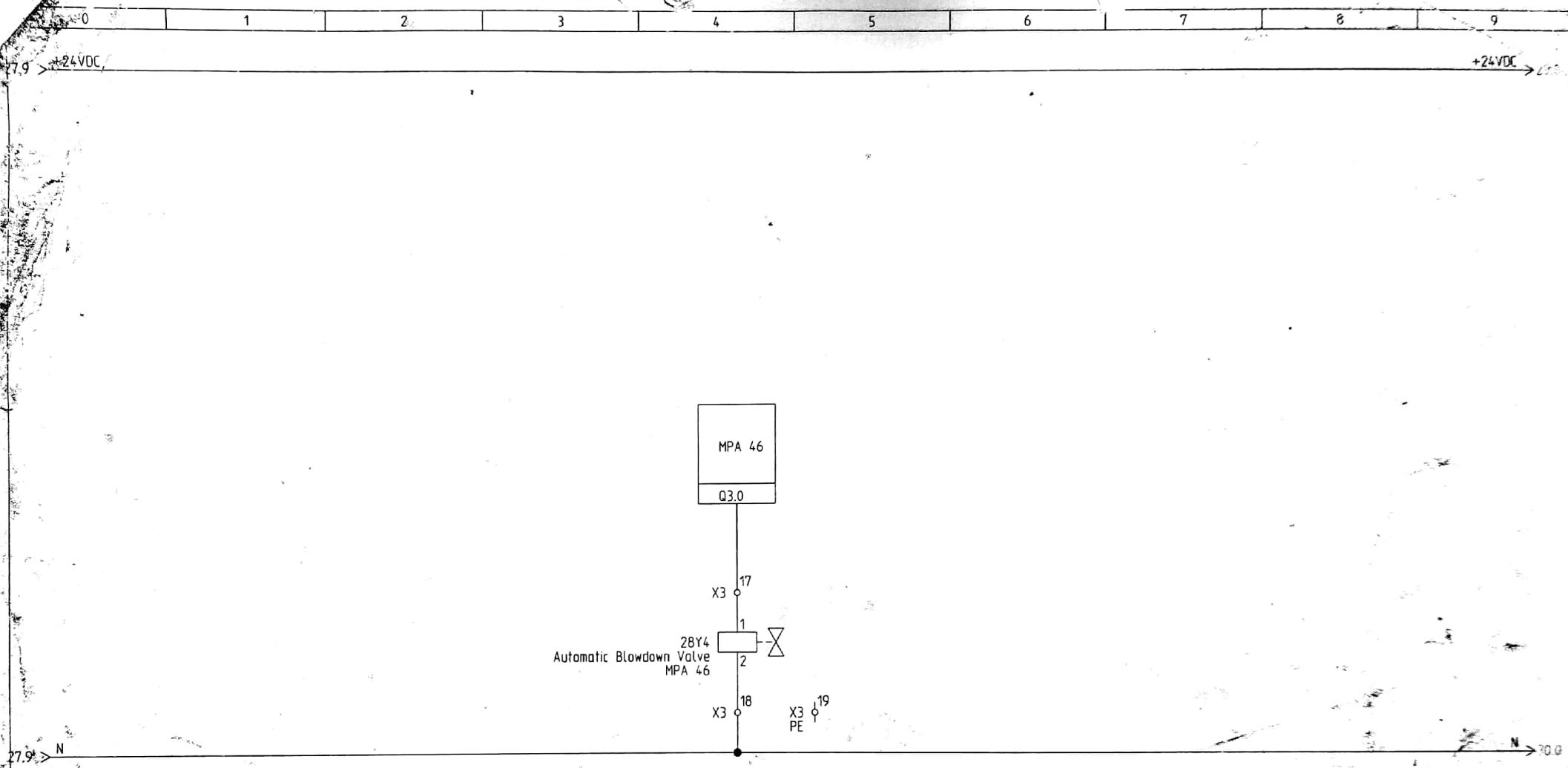
# sheet 27



PLANT: SAYAP MAS  
ALSTOM COAL FIRED BOILER 21.0T - 20 bar

Alarm Horn

Job no.	JM-1544	Draw no.	CFB-10006-01	Rev.	By
Date:	9/4/2005	Device:	Location	Sheet	



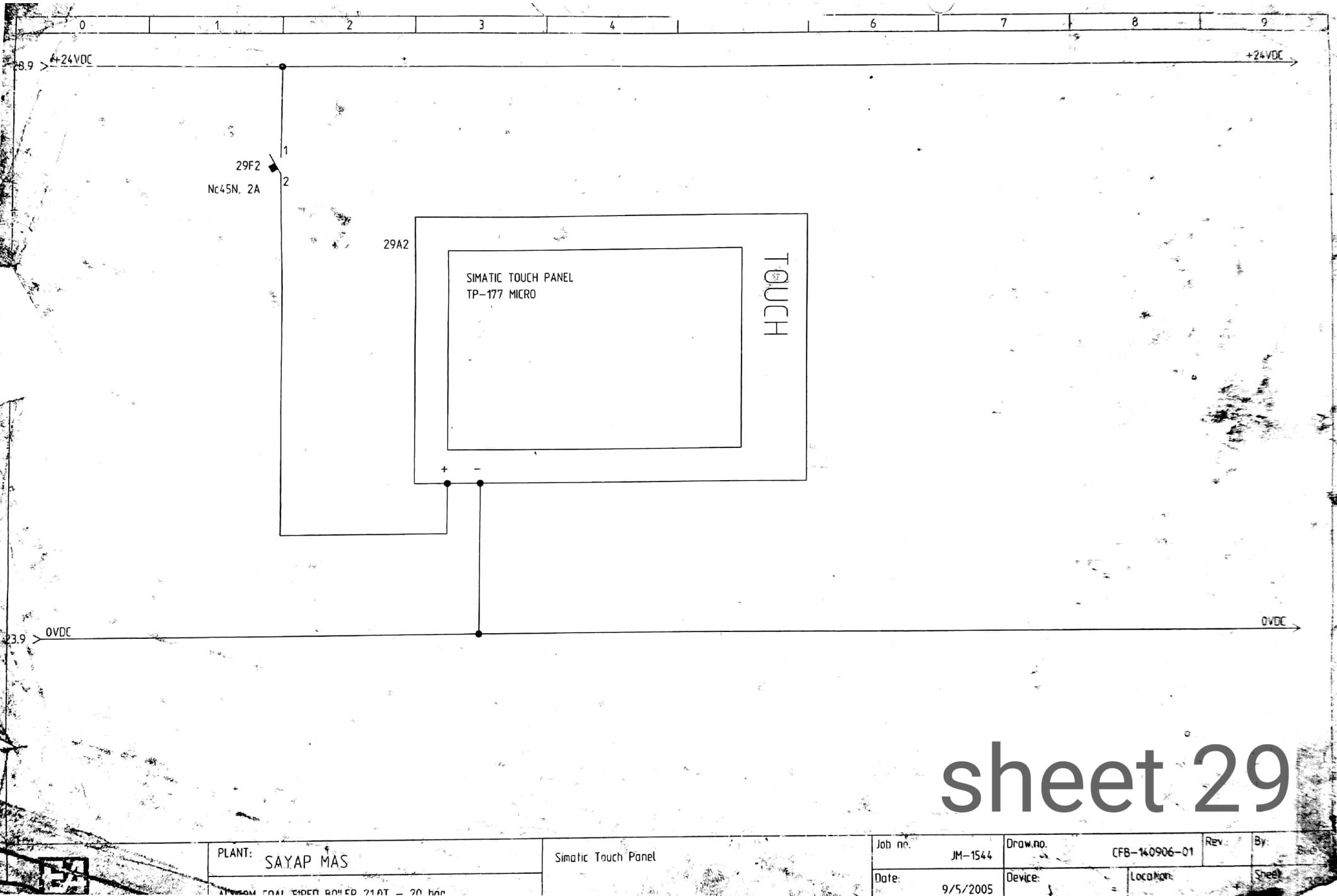
sheet 28

PLANT: SAYAP MAS

ALSTOM COAL FIRED BOILER 210T - 20 bar

Automatic Blowdown

Job No.	JM-1544	Draw.no.	CFS-140906-01	Rev.	3
Date:	9.6.2005	Device:		Location:	Sheet



sheet 29