

SERIAL NUMBER	SPECIALTY	VOLUME NUMBER	VOLUME NAME
1	General layout	F401IIS-Z-01	General layout of the plant diagram
2	Part Mechanical	F401IIS-J-01	Thermodynamic system diagram
3	Part Mechanical	F401IIS-J-02	Combustion system diagram
4	Part Mechanical	F401IIS-J-03	Main plant transverse section Combustion diagram
5	Part Mechanical	F401IIS-J-04	General layout diagram
6	Part Mechanical	F401IIS-J-05	Deaerator pump factory diagram
7	Part Mechanical	F401IIS-C-01	Pneumatic ash removal system diagram
8	Part Mechanical	F401IIS-C-02	Compressed air system diagram
9	Civil Engineering	F401IIS-T-01	Boiler room
10	Civil Engineering	F401IIS-T-02	Deaerator room and control room
11	Civil Engineering	F401IIS-T-03	Dry coal shelter
12	Part electrical	F401IIS-D-01	400V oneline diagram
13	Part Control	F401IIS-K-01	Layout diagram for central control room
14	Part Control	F401IIS-K-02	Layout diagram for local room
15	Part Control	F401IIS-K-03	DCS architecture
16	Part Control	F401IIS-K-04	Layout diagram for cable routing of CGB plant
17	Part Control	F401IIS-K-05	Layout diagram for cable routing of main plant area

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A B C D E F G H

NOTES

KEY PLAN



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PROJECT
 SUBMERGED ARC FURNACE FUME WASTE HEAT
 POWER GENERATION PROJECT

TITLE
 厂区内烟气余热发电
 General layout of the plant drawing

DRAWING NO.:	F401015-Z-01	SCALE	PAGES
DRAWN	SIGNATURE	DATE	SCALE
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APPROVED	SIGNATURE	DATE	SCALE

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	消声器 Silencer		
	至排水沟 To drainage trench		水封 Water seal
	至排水管 To drainage pipe		进口滤网 Inlet mesh
	蒸汽器 Steam filter		滤水器 Water filter
	排大气 To atmosphere		节流孔板 Throttle orifice
	大小头 Reducer		流量测量喷嘴 Flow meter nozzle
	蒸汽平衡管 Steam balance pipe		流量测量孔板 Flow meter orifice
	高压给水管 HP Feedwater pipe		安全阀 Safety valve
	低压给水管 LP Feedwater pipe		减压阀 Pressure reducing valve
	定期排污管 Periodic blowdown pipe		电动调节阀 Electric regulation valve
	连续排污管 Continuous blowdown pipe		蝶阀 Butterfly valve
	化学补水管 Chemical make-up water pipe		节流阀 Throttle valve
	低压蒸汽管 LP Steam pipe		电动阀 Electric valve
	疏放水管 Drain and discharge pipe		电磁阀 Magnetic valve
	循环水管 Circulation water pipe		止回阀 Check valve
	凝结水管 Condensate pipe		截止阀 Globe valve
	主蒸汽管 Main steam pipe		闸阀 Gate valve
符 号	名 称	符 号	名 称
LEGEN	NAME	LEGEN	NAME

图 形 符 号 表
GRAPHIC SYMBOLS

编号 NO.	名 称 SYMBOLIC	型号及规范 SPECIFICATION	单 位 UNIT	数 量 QUAY	备 注 REMARK
6	定期排污容器 Periodic blowdown flash tank	DP-3.5 3.5m ³	台 Unit	2	
5	连续排污容器 Continuous blowdown flash tank	LP-1.5 1.5m ³	台 Unit	2	
4	给水泵 Boiler feedwater pump	DG46-50x12 Q=46m ³ /h H=600mH ₂ O	台 Unit	6	
3	除氧水箱 Deaerator's tank	25m ³	台 Unit	2	
2	除氧器 Deaerator	50t/h 0.02MPa 104°C	台 Unit	2	
1	锅炉 Boiler	XN-25/2.5-M	台 Unit	4	
设 备 明 细 表 EQUIPMENT TYPE LIST					

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PROJECT

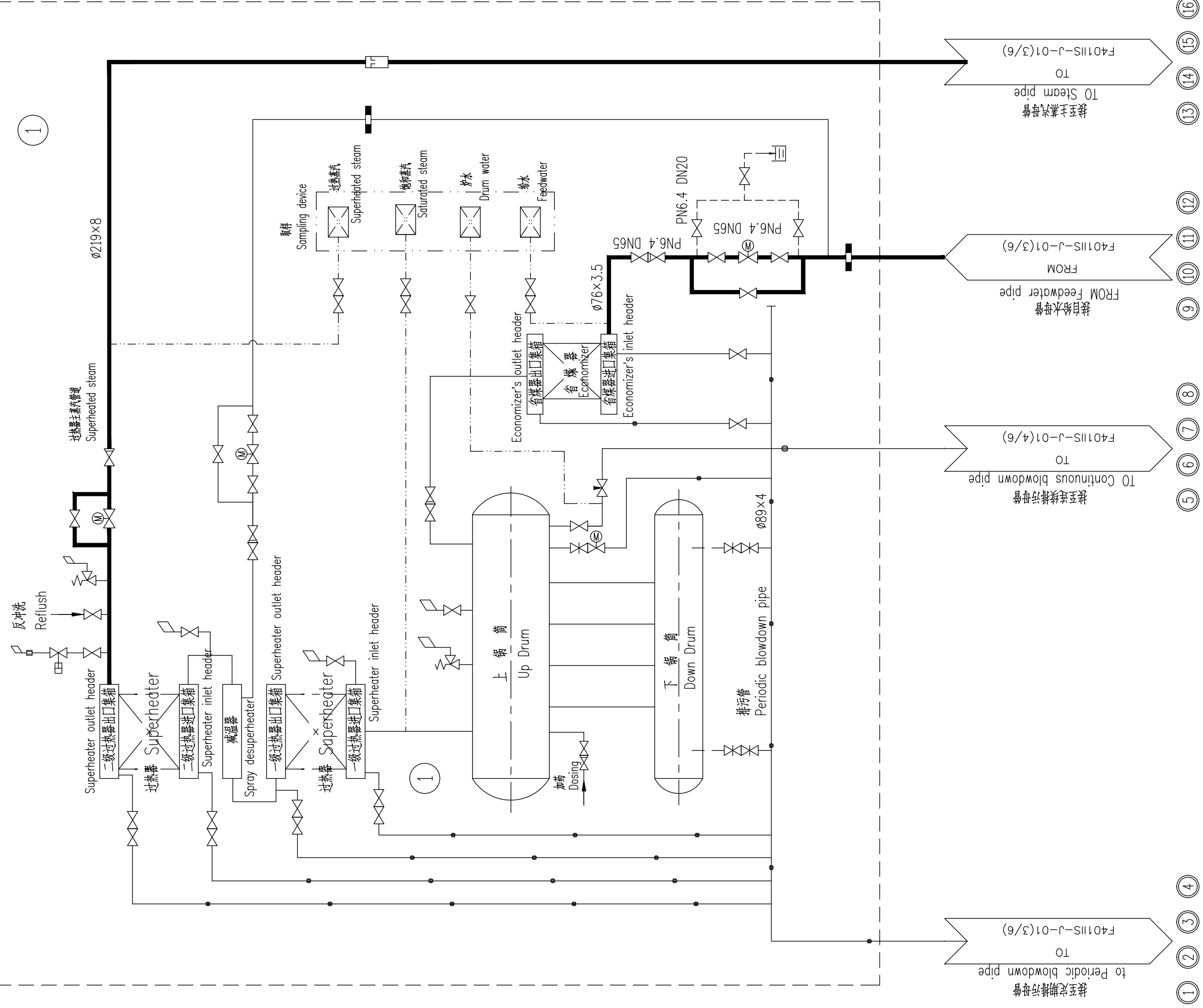
4X25t/h CGB BOILER PROJECT

TITLE

热力系统图
THERMODYNAMIC SYSTEM DIAGRAM

DRAWING NO. :	F401IIS-J-01	SCALE	PAGES
SIGNATURE	DATE	SCALE	PAGES
	2017.04.30	NTS	1/6
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APPROVED	2017.04.30		

链条炉本体热力系统图(4台锅炉系统均相同)
 CGB BOILER ONTOLOGICAL THERMODYNAMIC SYSTEM DIAGRAM (Four boilers are the same diagram)



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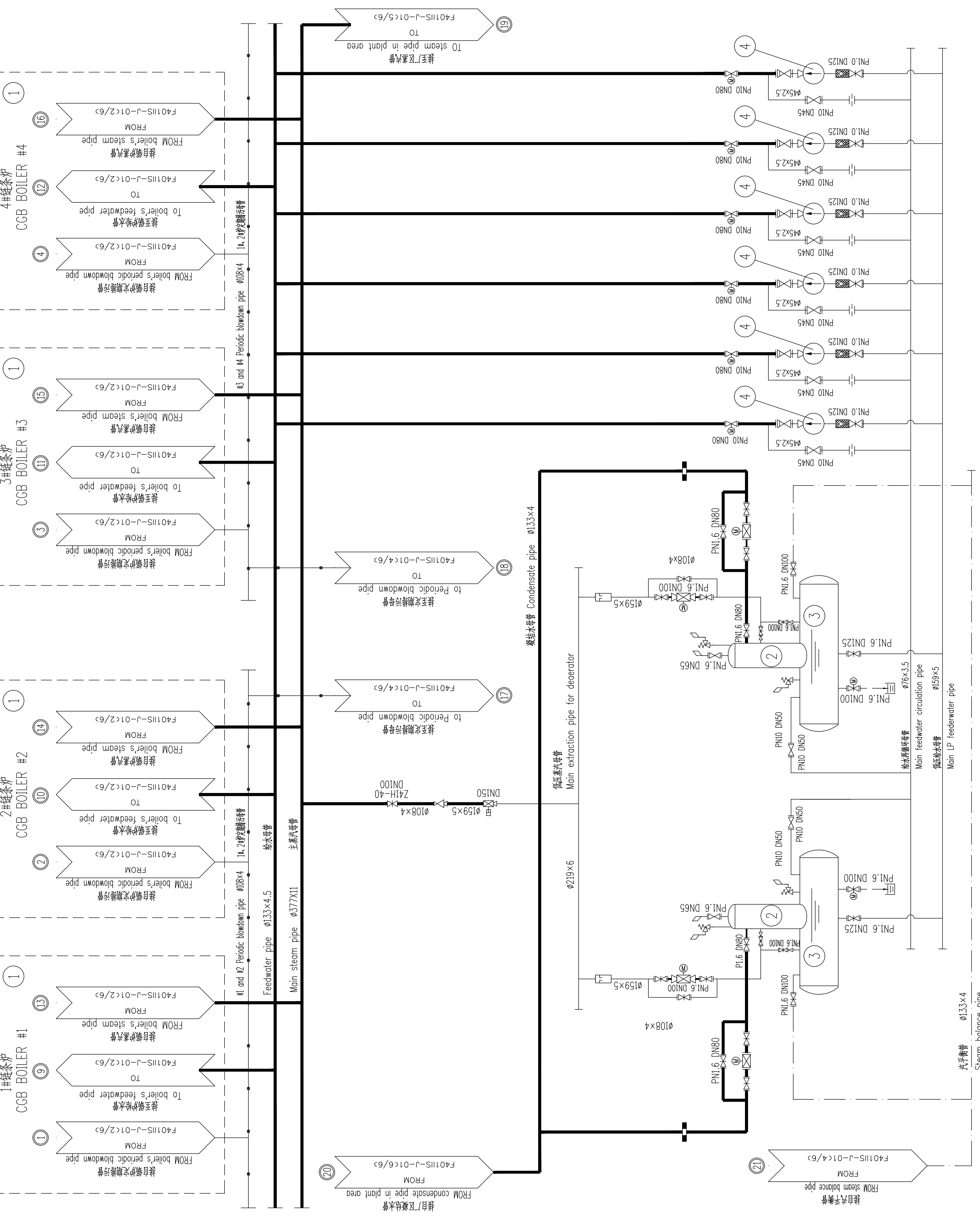
PROJECT

4X25t/h CGB BOILER PROJECT

TITLE

热力系统图
 THERMODYNAMIC SYSTEM DIAGRAM

DRAWING NO.:	F4011S-J-02	SCALE	PAGES
SIGNATURE	DATE	NTS	2/6
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APPROVED	2017.04.30	REV.	B01



FROM condensate pipe in plant area
F4011IS-J-01<6/6>

TO steam pipe in plant area
F4011IS-J-01<5/6>

TO Periodic blowdown pipe
F4011IS-J-01<4/6>

TO Periodic blowdown pipe
F4011IS-J-01<4/6>

TO Periodic blowdown pipe
F4011IS-J-01<4/6>

FROM steam balance pipe
F4011IS-J-01<4/6>

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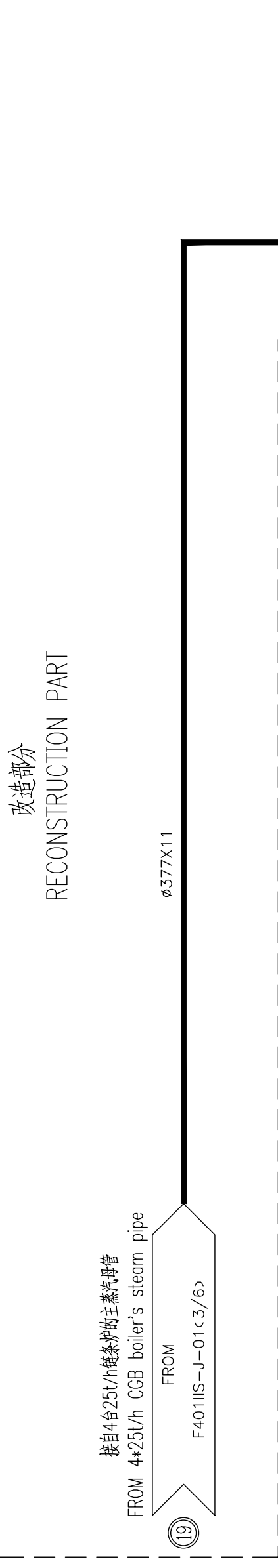
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PROJECT
4X25t/h CGB BOILER PROJECT

TITLE
热力系统图
THERMODYNAMIC SYSTEM DIAGRAM

DRAWING NO. :	F4011IS-J-03	SCALE	PAGES
SIGNATURE	DATE	NTS	3/6
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接自4台25t/h链条炉的主蒸汽母管
FROM 4*25t/h CGB boiler's steam pipe
FROM F4011IS-J-01c3/6

接自6#余热锅炉
FROM 6# HRSG
Y6LBA10BR010

接自5#余热锅炉
FROM 5# HRSG
Y5LBA10BR010

接自4#余热锅炉
FROM 4# HRSG
Y4LBA10BR010

接自3#余热锅炉
FROM 3# HRSG
Y3LBA10BR010

接自2#余热锅炉
FROM 2# HRSG
Y2LBA10BR010

接自1#余热锅炉
FROM 1# HRSG
Y1LBA10BR010

接至1#汽轮机
to 1# STG
Y0LBA30BR010
TO drawing F401S-J0201-02

接至2#汽轮机
to 2# STG
20LBA10BR010
TO drawing F401S-J0201-02

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4X25t/h CGB BOILER PROJECT

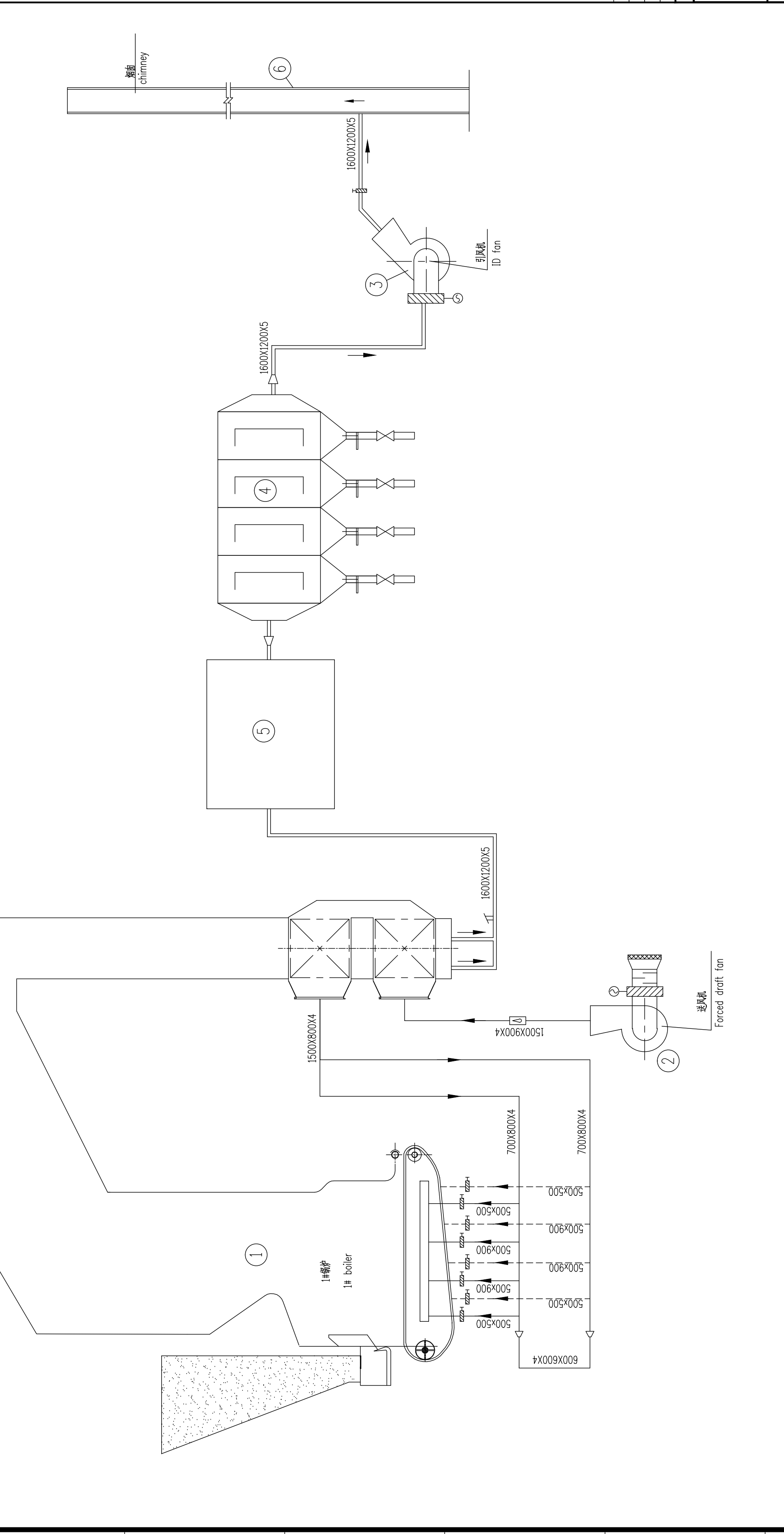
TITLE
热力系统图
THERMODYNAMIC SYSTEM DIAGRAM

DRAWING NO.:	F4011IS-J-05	SCALE	PAGES
SIGNATURE	DATE	NTS	5/6
CHECKED	2017.04.30		
APPROVED	2017.04.30	REV.	B01

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NOTES											

爆炸门 explosion vent	ZZZZ-⊙	电动调节挡板风门 electric baffle damper
消音器 muffler	ZZZZ-	手动挡板门 manual damper
流量计 flow meter	—▷—	异径管 Reducer
符号 LEGEND	符号 LEGEND	名称 NAME

图形符号表 GRAPHIC SYMBOLS	
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NO.	名称 SYMBOLIC	型号及规范 SPECIFICATION	数量 QUANTITY	备注 REMARK
6	钢烟囱 Steel stack	H=40m $\phi=3.0m$	1 座 set	四炉共用 four boilers share
5	脱硫装置 desulfurize equipment		4 台 Unit	
4	布袋除尘器 Bag Filter	$\eta=99.5\%$	4 台 Unit	
3	引风机 Induced fan	$Q=81341m^3/h$ $h=6170Pa$	4 台 Unit	
2	送风机 Blower	$Q=62000m^3/h$ $h=3138Pa$	4 台 Unit	
1	锅炉 Boiler	SZL25-2.5/400-AII	4 台 Unit	

锅炉参数 Boiler Parameters	锅炉参数 Boiler Parameters
额定蒸发量 rated evaporation	25t/h
过热蒸汽出口温度 superheated steam outlet temperature	400℃
过热蒸汽出口额定压力 rated pressure of superheated steam outlet	2.50MPa
给水温度 feedwater temperature	104℃
排烟温度 flue gas temperature	160℃

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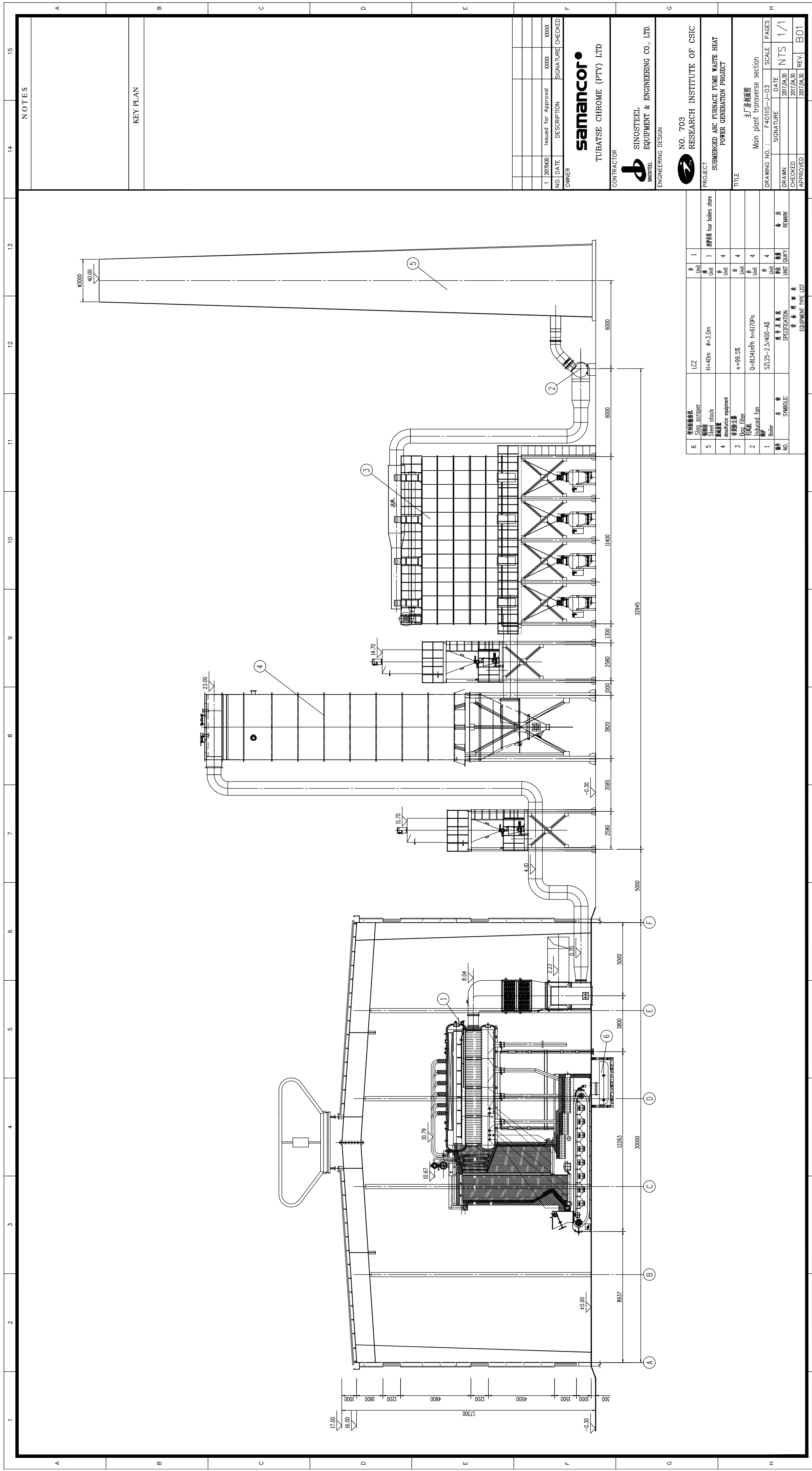
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PROJECT
4X25t/h CGB BOILER PROJECT

TITLE
燃烧系统图
Combustion system diagram

DRAWING NO. : F401IIS-J-02	SCALE	PAGES
SIGNATURE	DATE	NTS 1/1
2017.04.30	2017.04.30	
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PROJECT
SUBMERGED ARC FURNACE FUME WASTE HEAT
POWER GENERATION PROJECT

TITLE
Main plant transverse section
主/座剖面图

DRAWING NO.:	F401US-J-03	SCALE	PAGES
DRAWN	SIGNATURE	DATE	NTS
CHECKED	2017.04.30	2017.04.30	1/1
APPROVED	2017.04.30	REV.	B01

NO.	名称	SYMBOLIC	SPECIFICATION	数量	UNIT	备注
6	原料输送机	LCZ		1	Unit	
5	渣槽		H=40m φ=3.0m	1	Unit	附材料 four boilers same
4	除尘设备		η=99.5%	4	Unit	
3	布袋除尘器		Q=81.34m³/h h=6170Pa	4	Unit	
2	诱导风机		SZL25-2.5/400-AII	4	Unit	
1	锅炉			4	Unit	
NO.	名称	SYMBOLIC	SPECIFICATION	数量	UNIT	备注

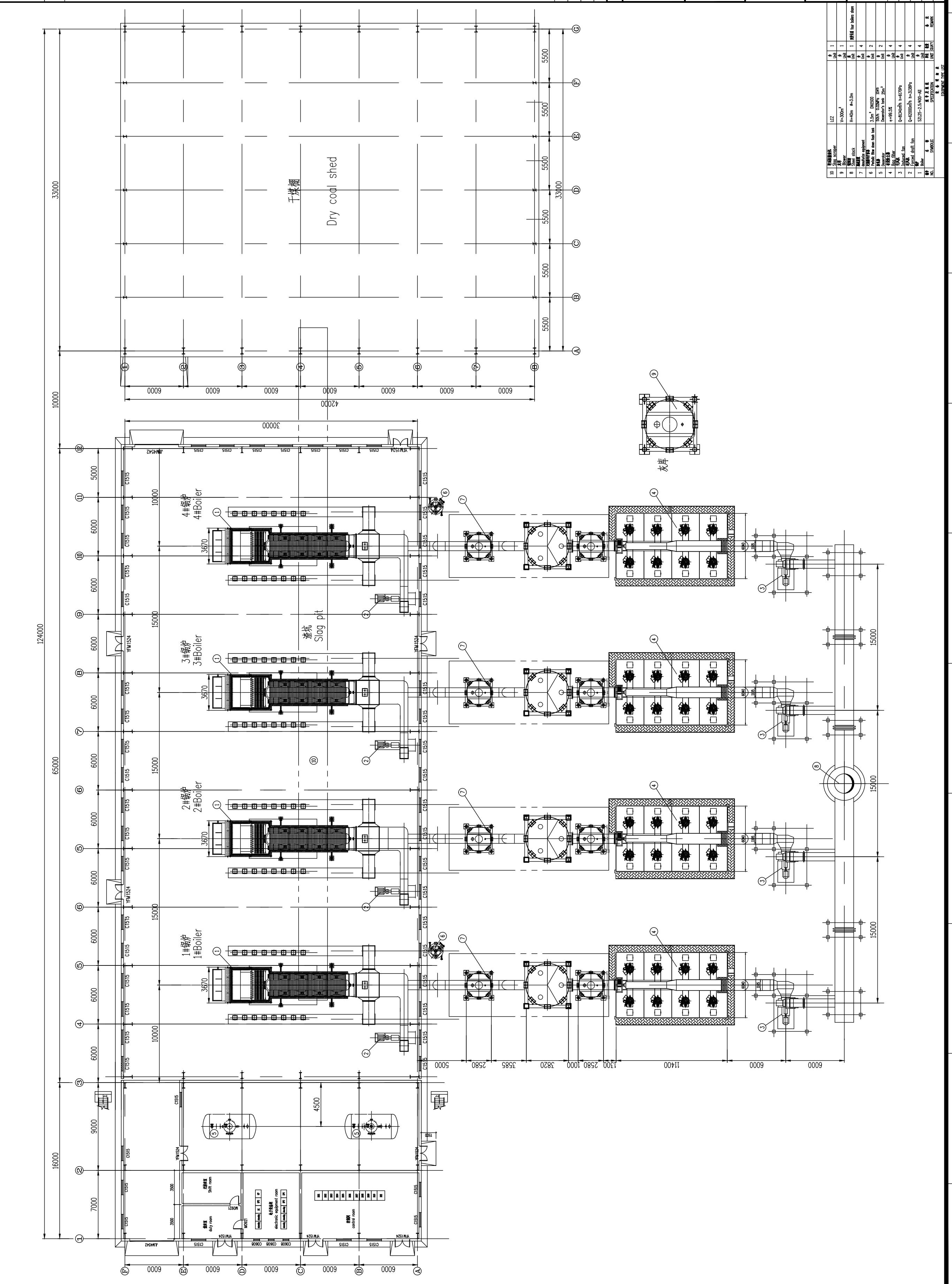
EQUIPMENT TYPE LIST
设备明细表

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 PROJECT
 SUBMERGED ARC FURNACE FUME WASTE HEAT
 POWER GENERATION PROJECT
 TITLE
 总平面布置图
 General layout diagram
 DRAWING NO.: F4011S-J-02
 SCALE
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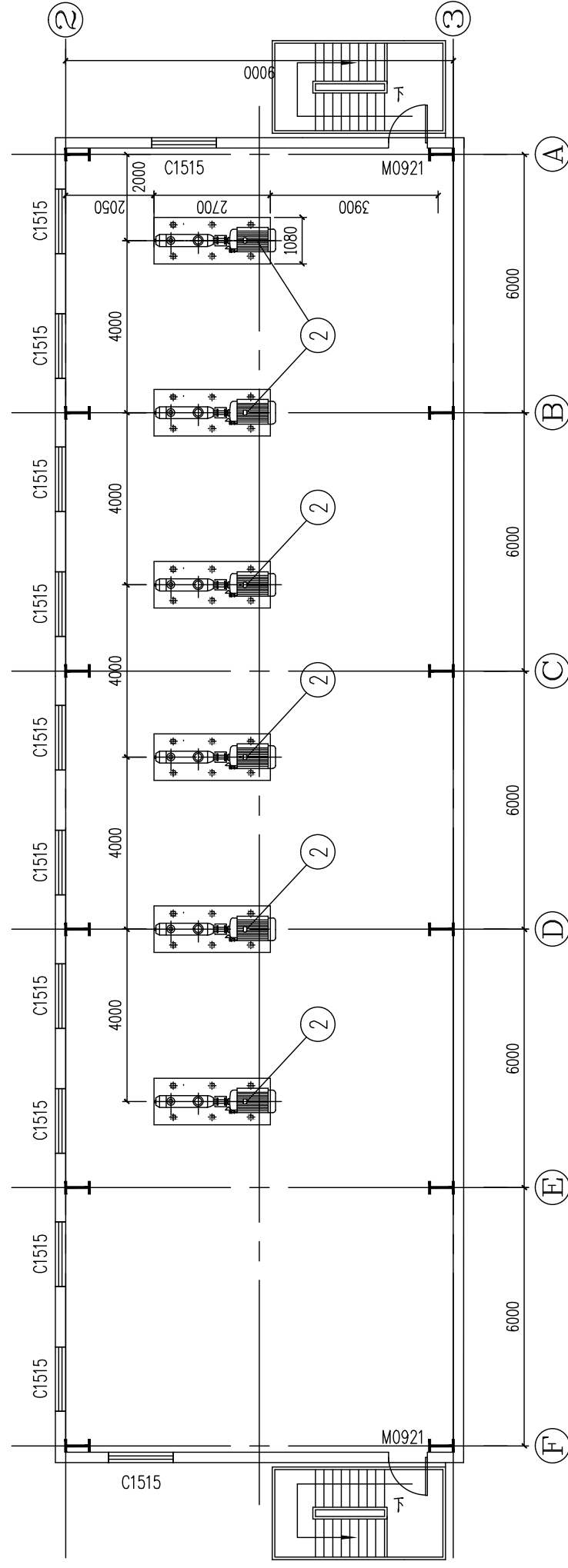
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 PROJECT
 SUBMERGED ARC FURNACE FUME WASTE HEAT
 POWER GENERATION PROJECT
 TITLE
 总平面布置图
 General layout diagram
 DRAWING NO.: F4011S-J-02
 SCALE
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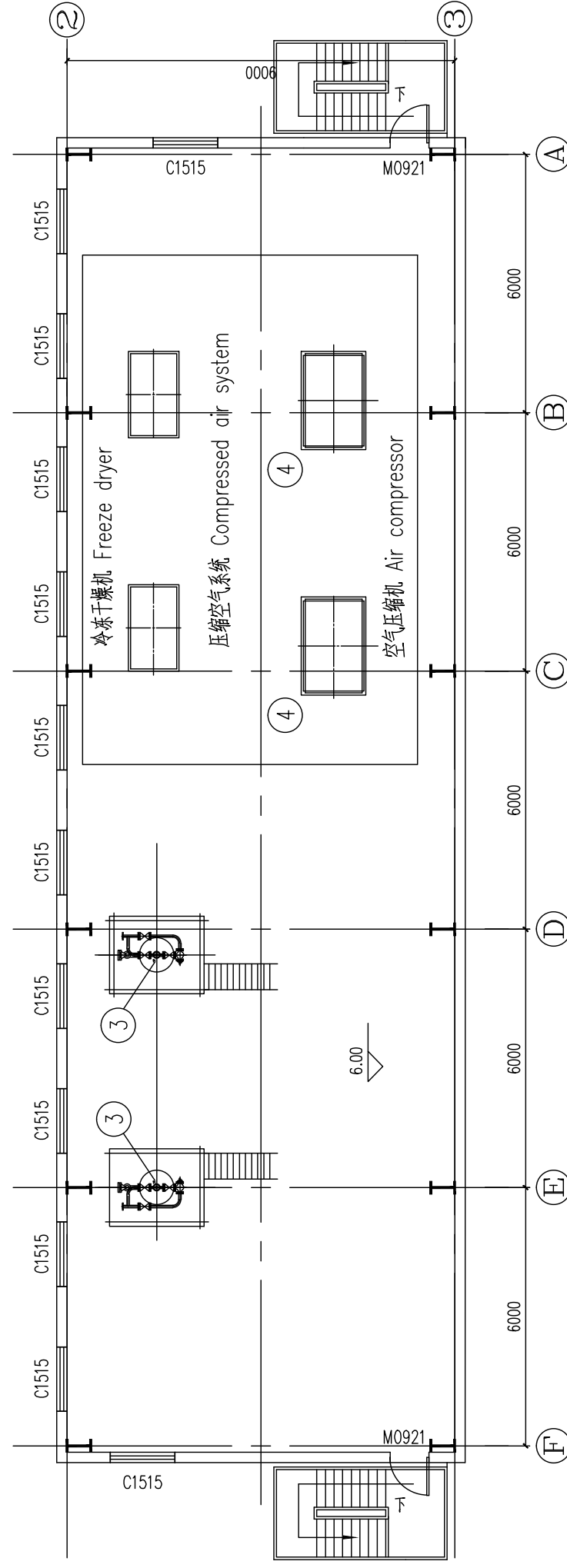
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NOTES

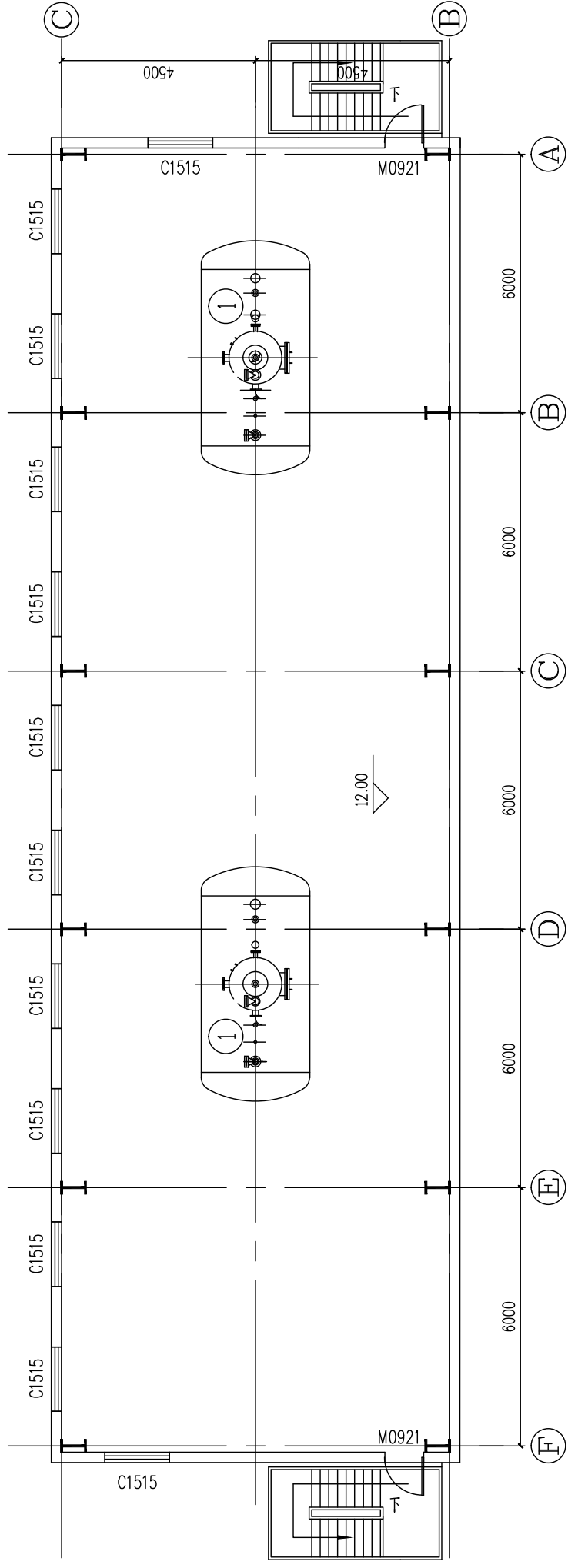
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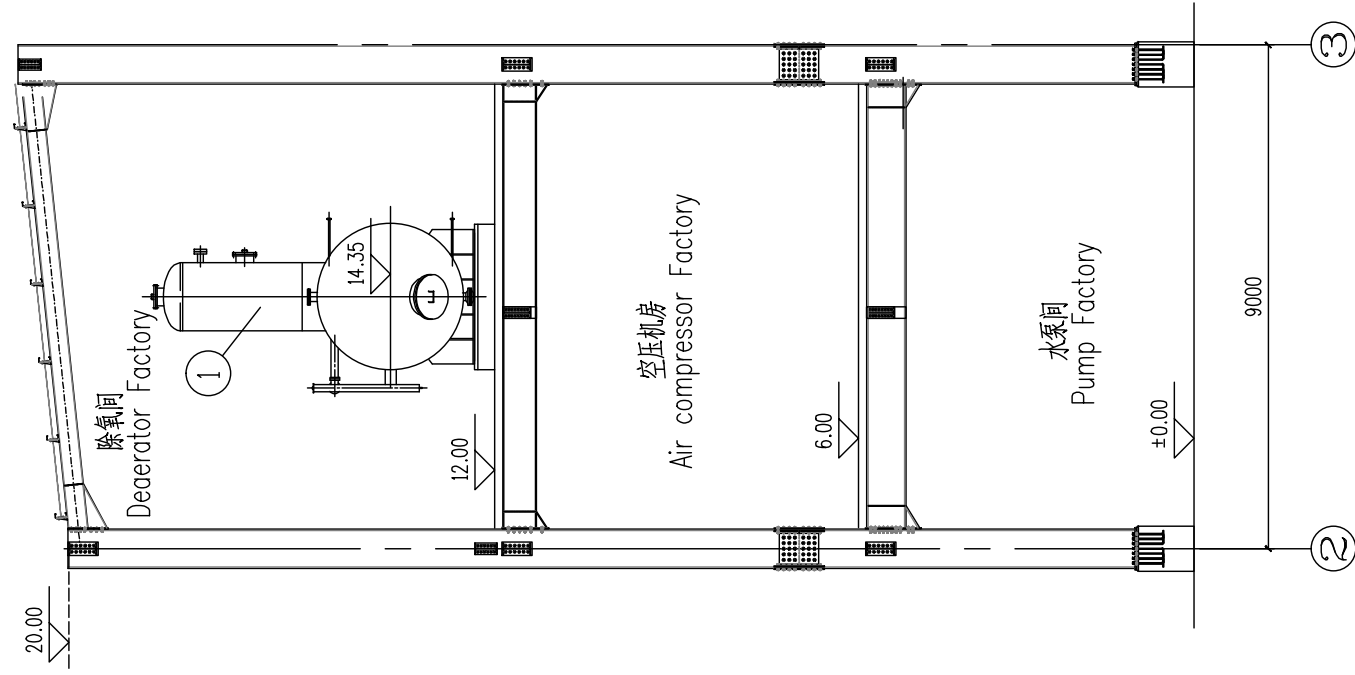
±0.00m层
±0.00m layout



6.00m层
6.00m layout



12.00m层
12.00m layout



Deerator Pump Factory
除氧间布置图

NO.	SYMBOLIC	名称	规格及范围	数量	单位	备注
4		空压机 Screw air compressor	Q=15 Nm ³ /min, P=0.8MPa	2	台	
3		连续吹扫罐 Continuous blowdown flash tank	LP-1.5 1.5m ³ DN800	2	台	
2		蒸发器 Boiler feedwater pump	DG25-50x7 Q=30m ³ /h H=366mH ₂ O 电动机Motor: Y250M-2 55KW 380V	6	台	
1		除氧器 Deerator	500/h 0.02MPa 104℃ Deerator's tank 25m ³	2	台	

设备明细表
EQUIPMENT TYPE LIST

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1	2017/04/30	Issued for Approval	XXXXX	XXXXX

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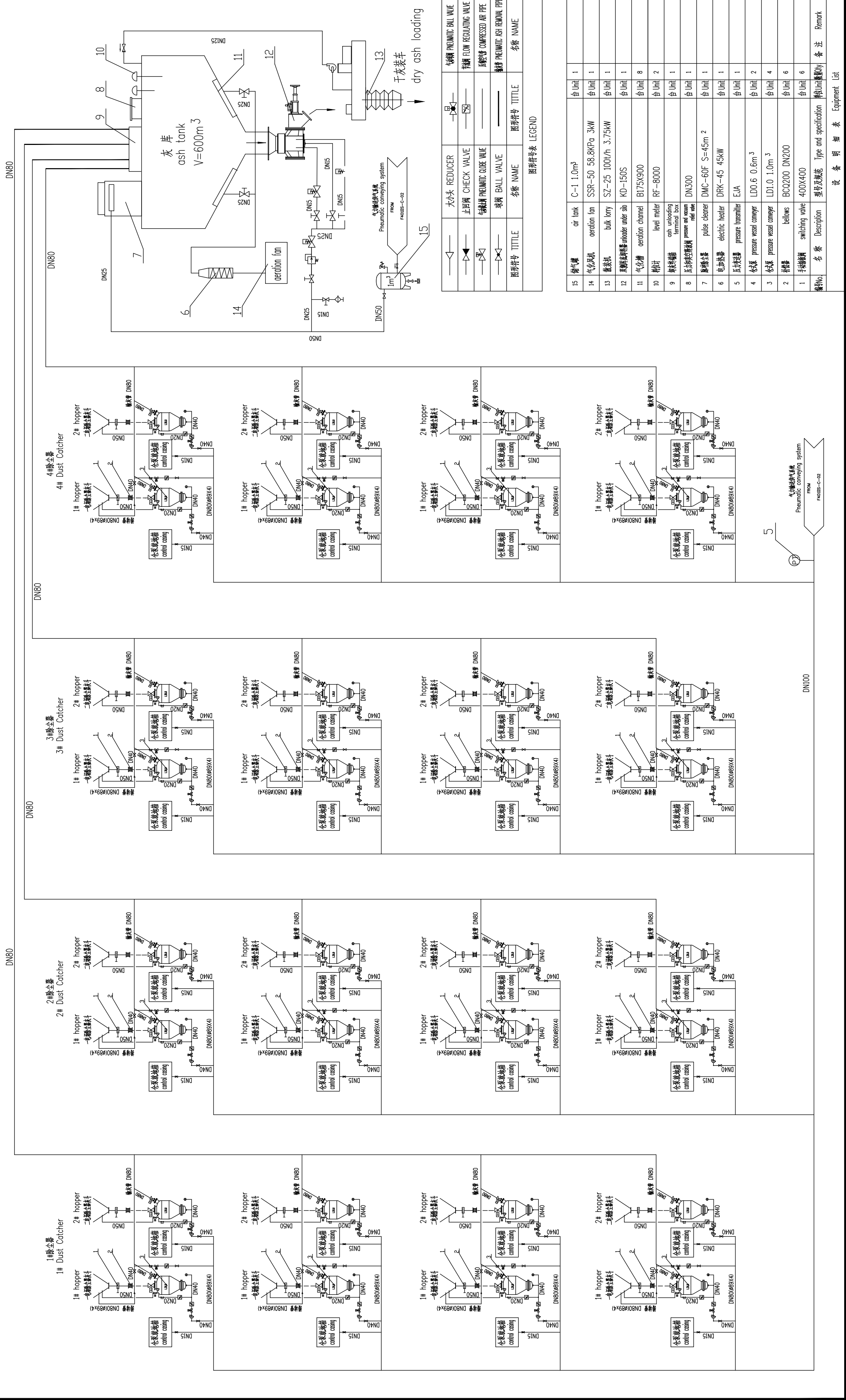
PROJECT
SUBMERGED ARC FURNACE FUME WASTE HEAT
POWER GENERATION PROJECT

TITLE
除氧间布置图
Deerator pump factory diagram

DRAWN	CHECKED	APPROVED	DRAWING NO. : F4011IS-J-05	DATE	SCALE	PAGES
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NOTES

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PROJECT		SUBMERGED ARC FURNACE FUME WASTE HEAT POWER GENERATION PROJECT	
TITLE		Pneumatic ash removal system diagram	
DRAWING NO. : F401JUS-C-01		SCALE	PAGES
DATE		2017.04.30	1/1
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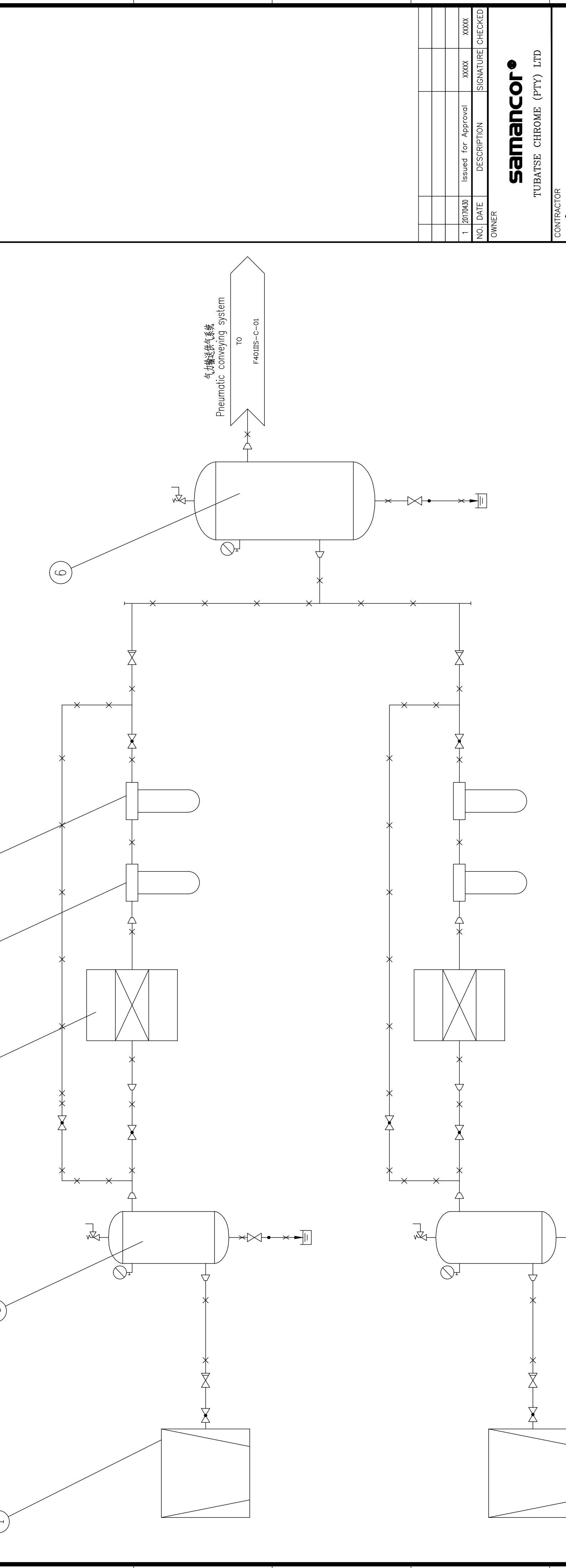
序号	名称	Description	Type and specification	单位	数量	备注
15	储气罐	air tank	C-1 1.0m³	台	1	
14	气化风机	eration fan	SSR-50 58.8MPa 3KW	台	1	
13	装载机	bulk lorry	SZ-25 100t/h 3.75KW	台	1	
12	双料斗装载机	under loader	KD-150S	台	1	
11	气化槽	eration channel	B175X900	台	8	
10	料斗	level meter	RF-8000	台	2	
9	卸料站	ash unloading terminal box	DN300	台	1	
8	压力释放阀	pressure relief valve	DMC-60F S=45m 2	台	1	
7	脉冲除尘器	pulse cleaner	DRK-45 45KW	台	1	
6	电加热器	electric heater	EJA	台	1	
5	压力变送器	pressure transmitter	LD0.6 0.6m 3	台	2	
4	仓泵	pressure vessel	LD1.0 1.0m 3	台	4	
3	仓泵	pressure vessel	BC0200 DN200	台	6	
2	料斗	belows	400X400	台	6	
1	料斗	switching valve	型号及规格	台	6	备注

设备明细表 Equipment list

NOTES

大小头 REDUCER	
止回阀 CHECK VALVE	
截止阀 GLOBE VALVE	
球阀 BALL VALVE	
图形符号 TITILE	名称 NAME
图形符号 TITILE	图形符号 TITILE
名称 NAME	名称 NAME

图形符号表 LEGEND



6	储气罐 Air tank	V=6m ³ /min, P=1.0MPa	台 Unit	1
5	储气罐 Air tank	V=1m ³ /min, P=1.0MPa	台 Unit	2
4	除尘过滤器 Deducing filter	Q=18Nm ³ /min, P=0.8MPa	台 Unit	2
3	除油过滤器 Oil separator	Q=18Nm ³ /min, P=0.8MPa	台 Unit	2
2	冷冻干燥机 Cold dryer	Q=18Nm ³ /min, P=0.8MPa	台 Unit	2
1	螺杆压缩机 Screw air compressor	Q=15Nm ³ /min, P=0.8MPa	台 Unit	2

名称 Description

型号及规范 Type and specification

数量 Quantity

备注 Remark

设备明细表 Equipment List

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PROJECT
4X25t/h CGB BOILER PROJECT

TITLE
压缩空气系统图
Compressed air system diagram

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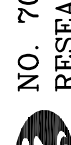
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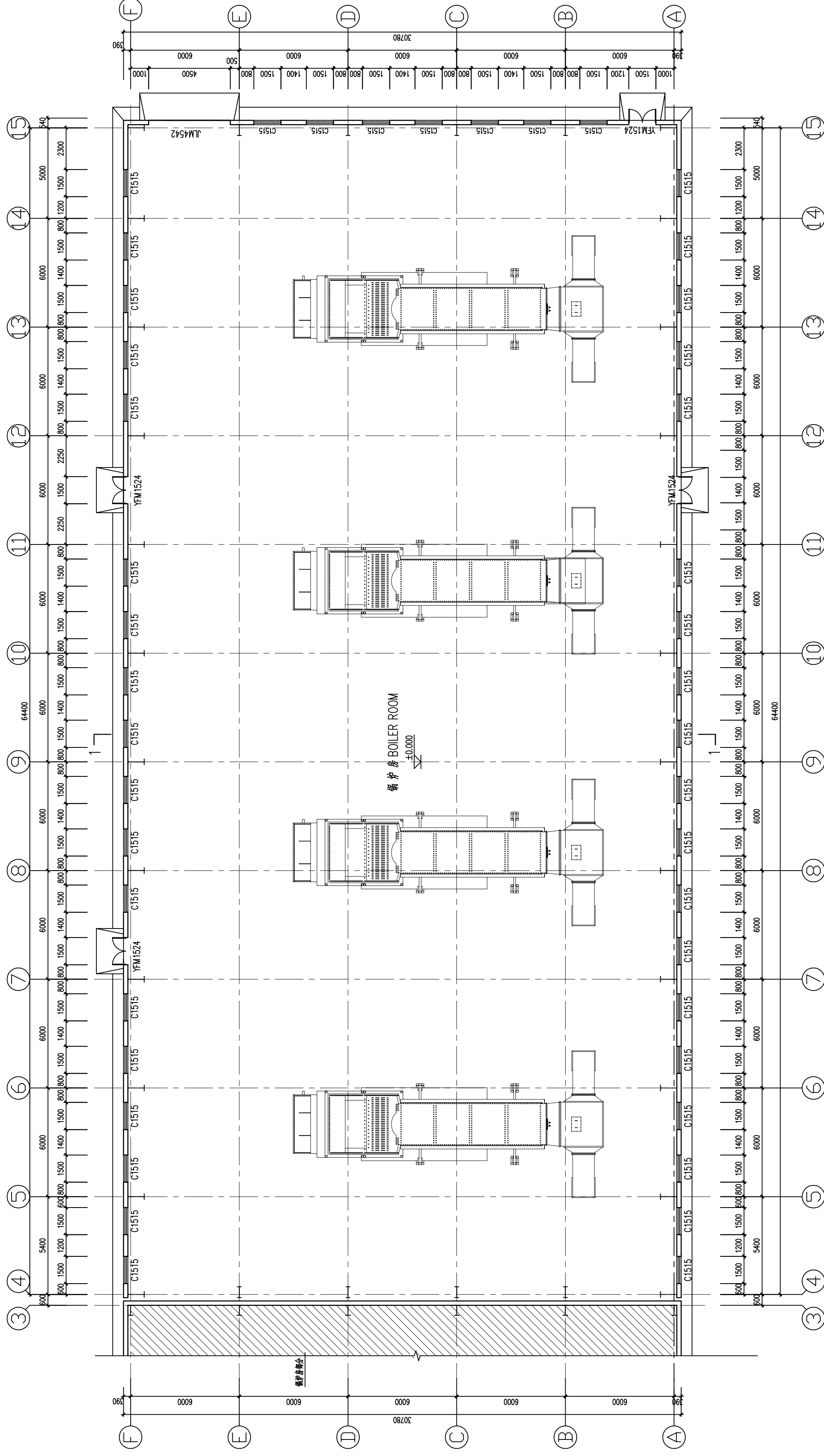
PROJECT

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TITLE

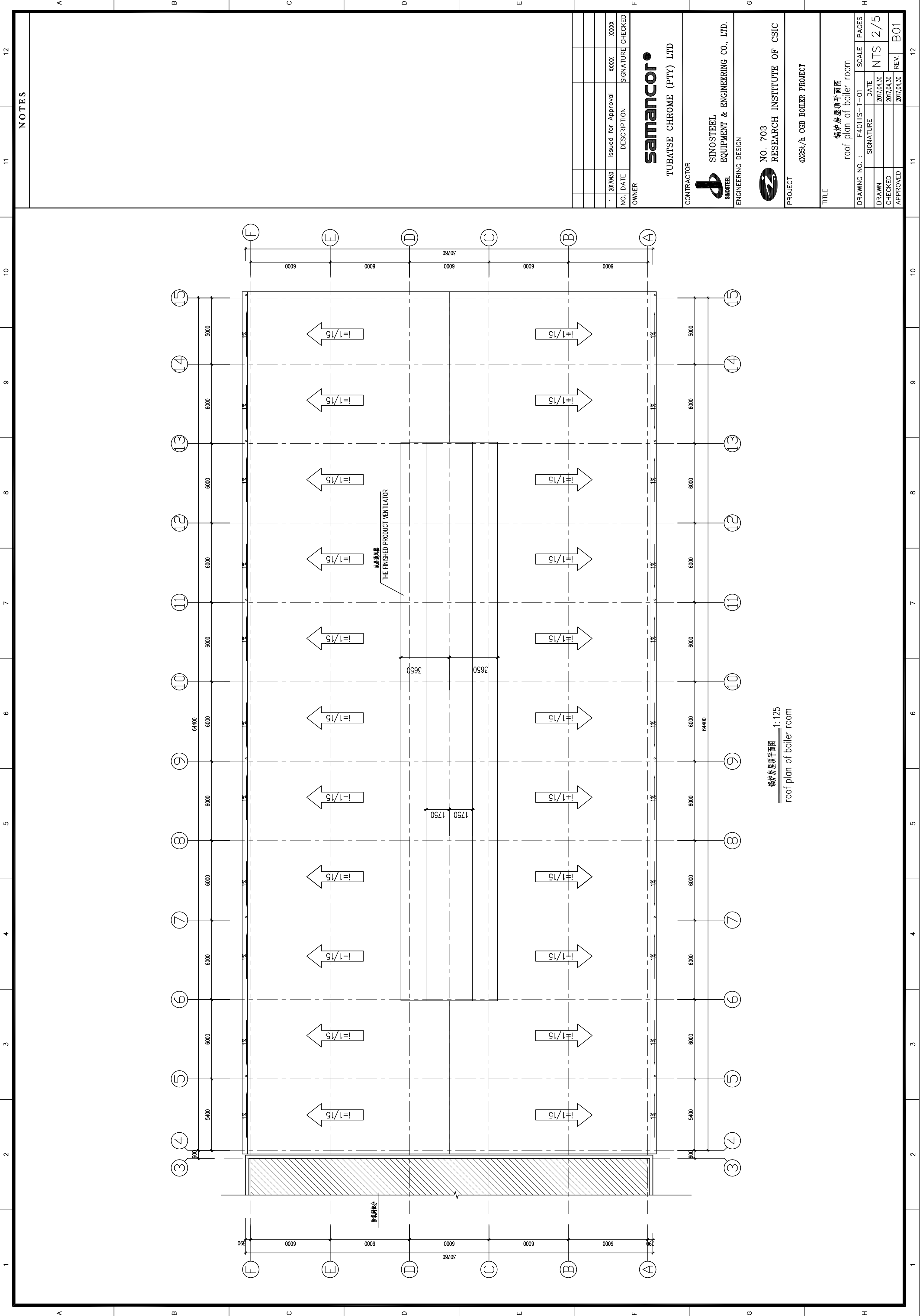
锅炉房±0.000平面图
±0.000 plan of boiler room

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SIGNATURE	DATE	NTS	1/5	
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锅炉房±0.000平面图
±0.000 plan of boiler room

NOTES		11		12	
OWNER		20170430		Issued for Approval	
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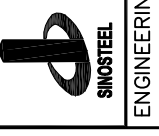
锅炉房屋顶平面图
1:125
roof plan of boiler room

NOTES

NO.	DATE	DESCRIPTION	SIGNATURE	CHECKED
1	2017/04/30	Issued for Approval	XXXXX	XXXXX

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TITLE

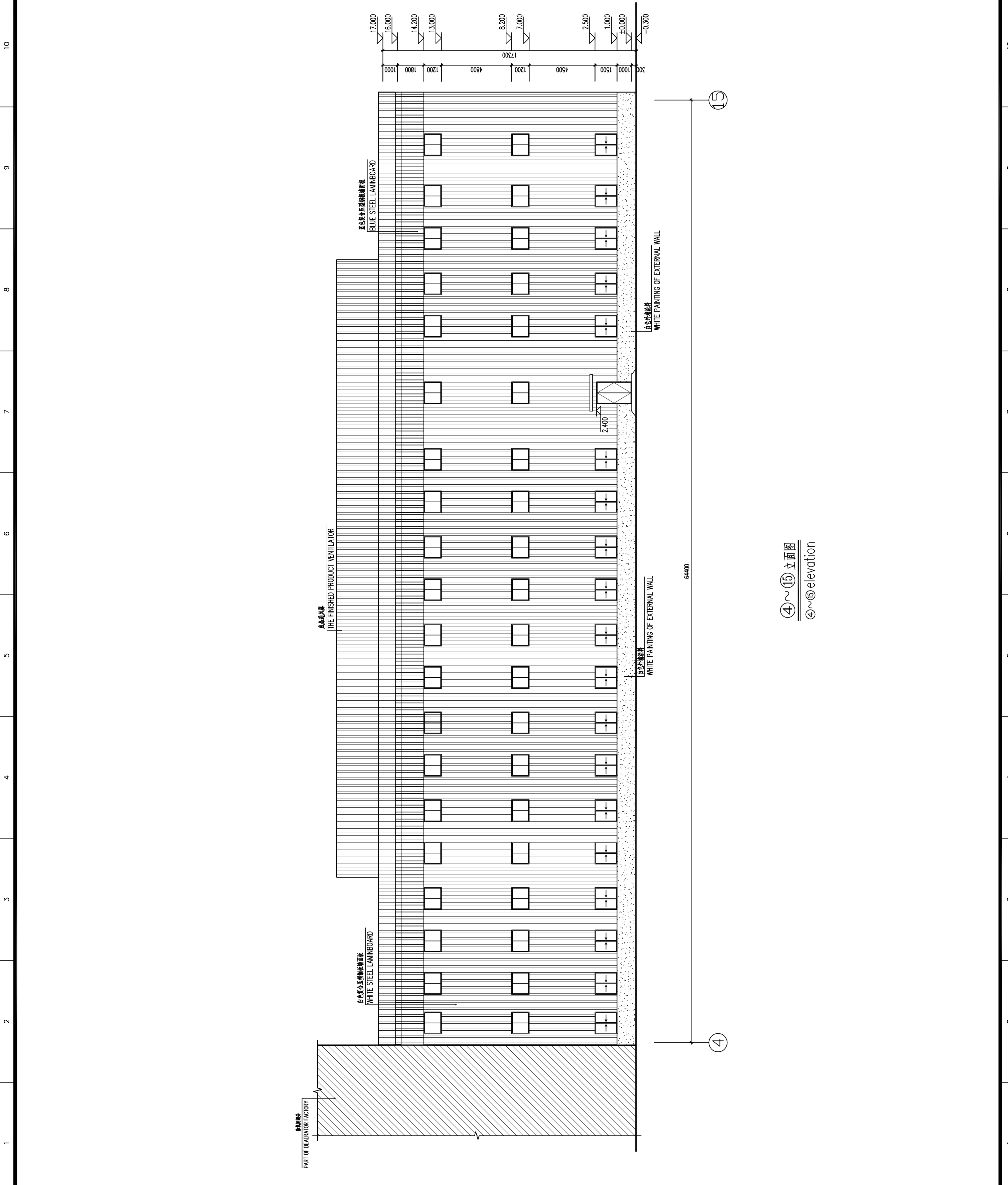
锅炉房屋顶平面图
roof plan of boiler room

DRAWING NO.:	F4011IS-T-01	SCALE	PAGES
SIGNATURE	DATE	NTS	2/5
CHECKED	2017.04.30	REV.	B01
APPROVED	2017.04.30		

12
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NOTES



④~⑮立面图
④~⑮ elevation

NO.	DATE	DESCRIPTION	SIGNATURE	CHECKED
1	20170430	Issued for Approval	XXXXX	XXXXX

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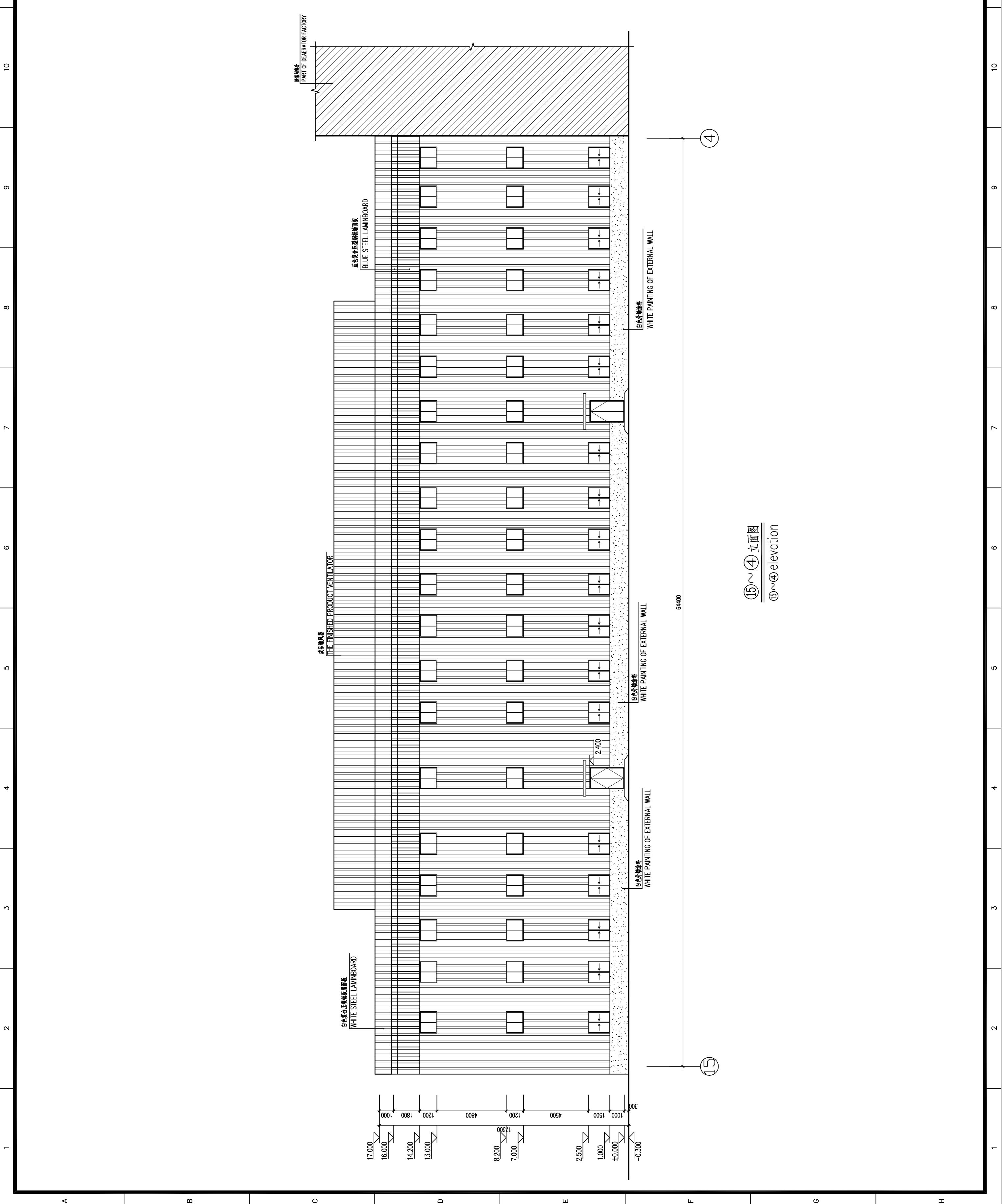
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PROJECT
4X25t/h CGB BOILER PROJECT

TITLE
4-15 立面图
4-15 elevation

DRAWING NO. :	F4011IS-T-01	SCALE	PAGES
SIGNATURE	DATE	NTS	3/5
CHECKED	2017.04.30	REV.	B01
APPROVED	2017.04.30		

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4X25t/h CGB BOILER PROJECT										
TITLE										
15-4 立面图 15-4 elevation										
DRAWING NO. : F4011S-T-01										
SCALE										
PAGES										
SIGNATURE										
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2017.04.30										
REV. B01										



⑮~④ 立面图
⑮~④ elevation

64400

15

4

NOTES										
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PROJECT										
4X25t/h CGB BOILER PROJECT										
TITLE										
15-4 立面图 15-4 elevation										
DRAWING NO. : F4011S-T-01										
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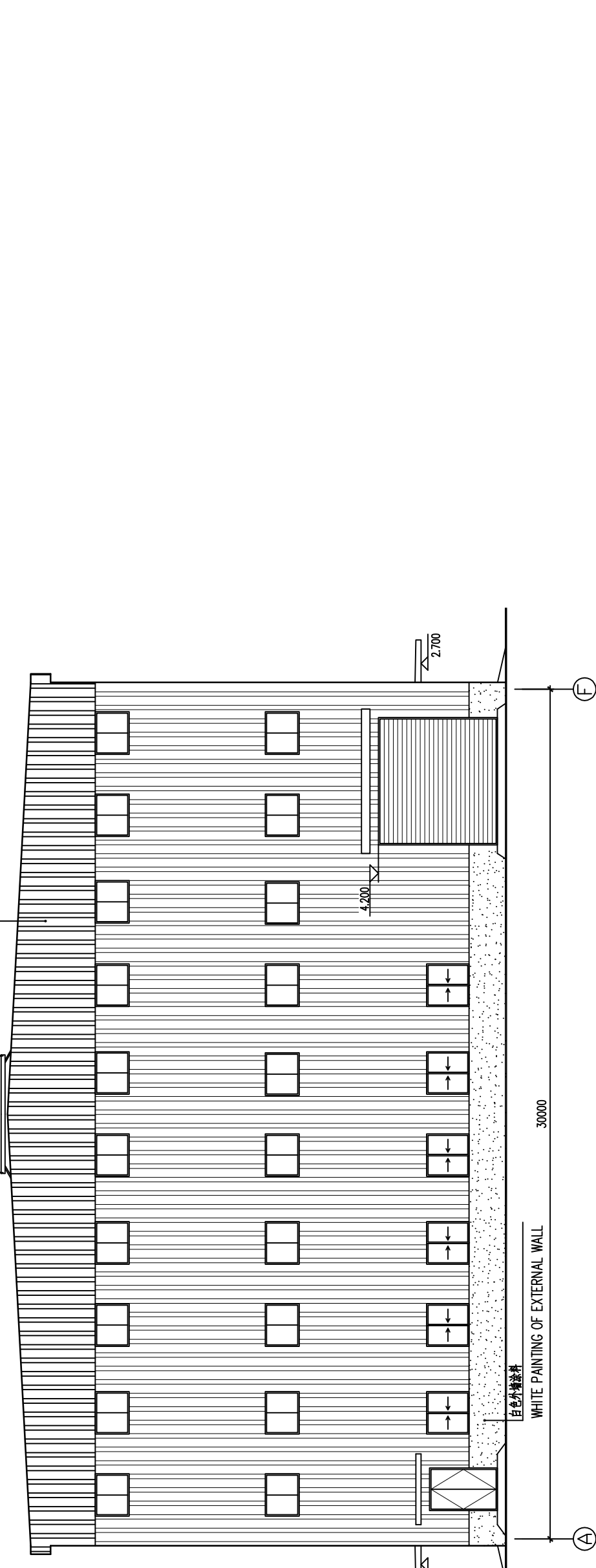
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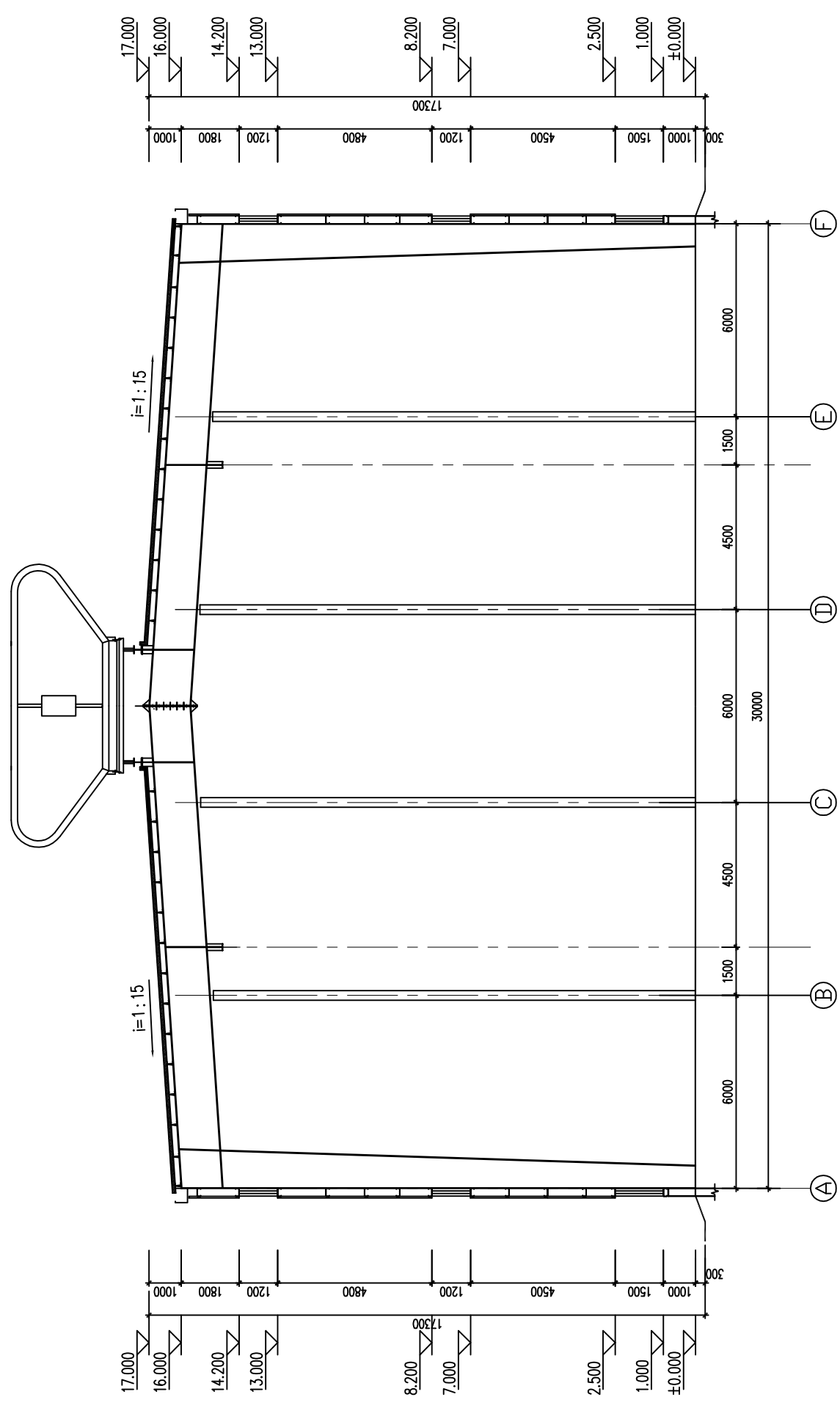
PROJECT
 NO. 703
 RESEARCH INSTITUTE OF CSIC
 4X25t/h CGB BOILER PROJECT

TITLE
 A-F 立面图, 1-1 剖面图
 A-F elevation, 1-1 section

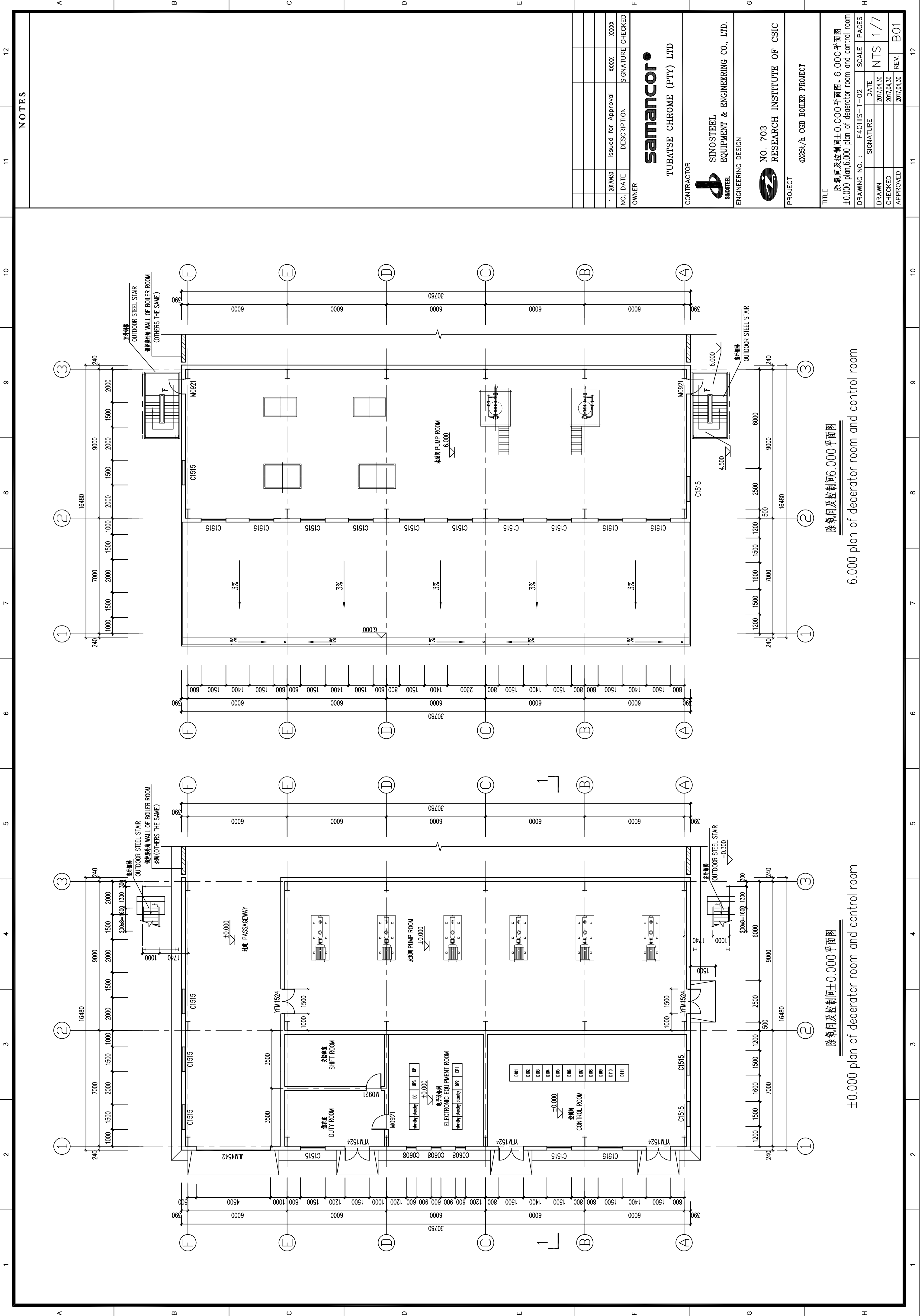
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SIGNATURE	DATE	NTS	5/5
CHECKED	2017.04.30	REV.	B01
APPROVED	2017.04.30		



(A)~(F) 立面图
 A~F elevation



1~1 剖面图
 1~1 section



NOTES

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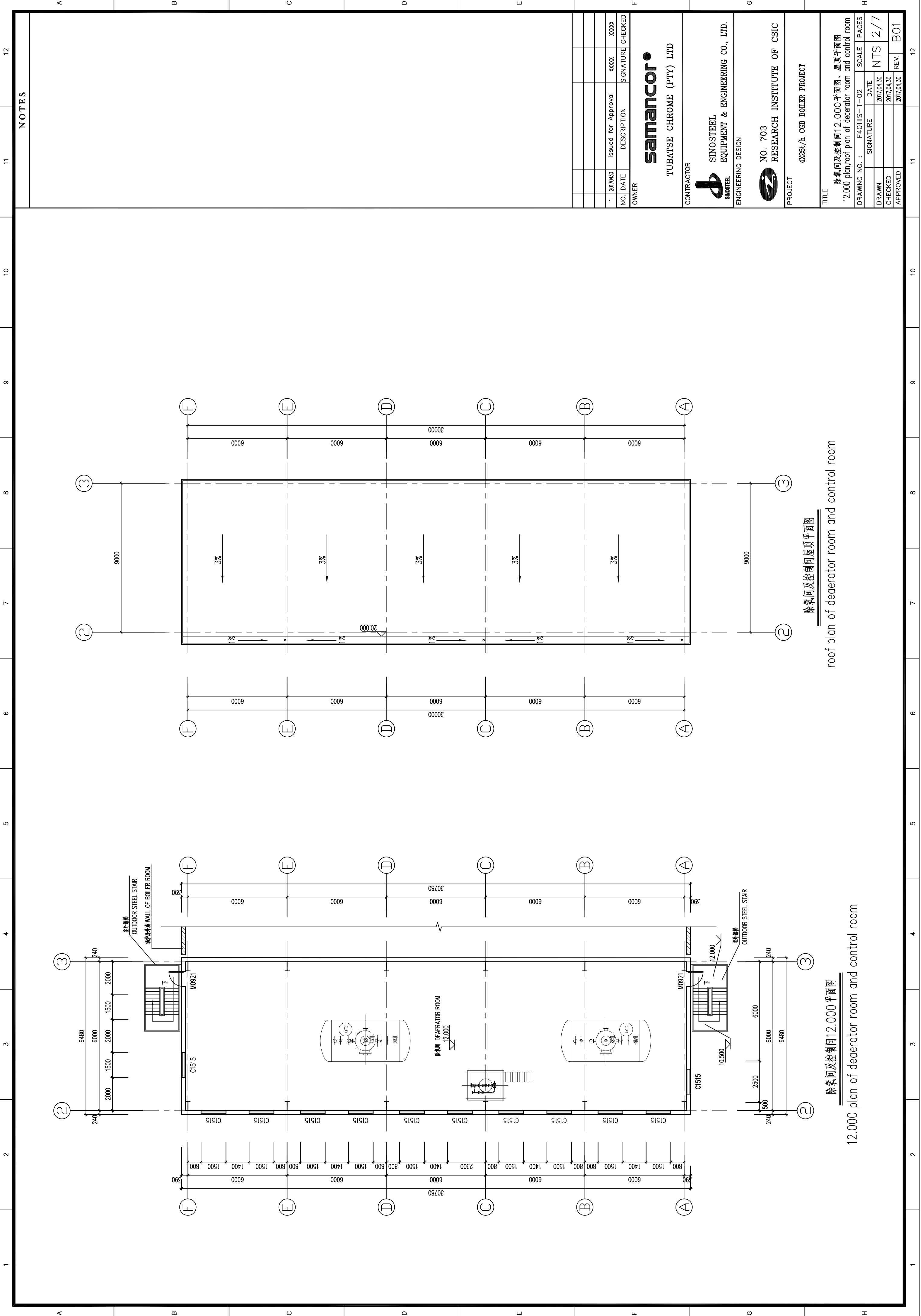
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RESEARCH INSTITUTE OF CSIC

PROJECT
4X25t/h CGB BOILER PROJECT

TITLE		除氧间及控制间±0.000平面图、6.000平面图 ±0.000 plan of deaerator room and control room	
DRAWING NO.:	F4011IS-T-02	SCALE	NTS 1/7
DRAWN	SIGNATURE	DATE	2017.04.30
CHECKED	SIGNATURE	DATE	2017.04.30
APPROVED	SIGNATURE	DATE	2017.04.30
PAGES		REV. B01	

除氧间及控制间±0.000平面图
6.000 plan of deaerator room and control room

除氧间及控制间±0.000平面图
±0.000 plan of deaerator room and control room



12,000 plan of deaerator room and control room
 除氧间及控制间12,000平面图

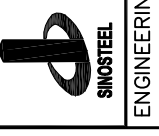
roof plan of deaerator room and control room
 除氧间及控制间屋顶平面图

NOTES

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1	2017/04/30	Issued for Approval	XXXX	XXXX

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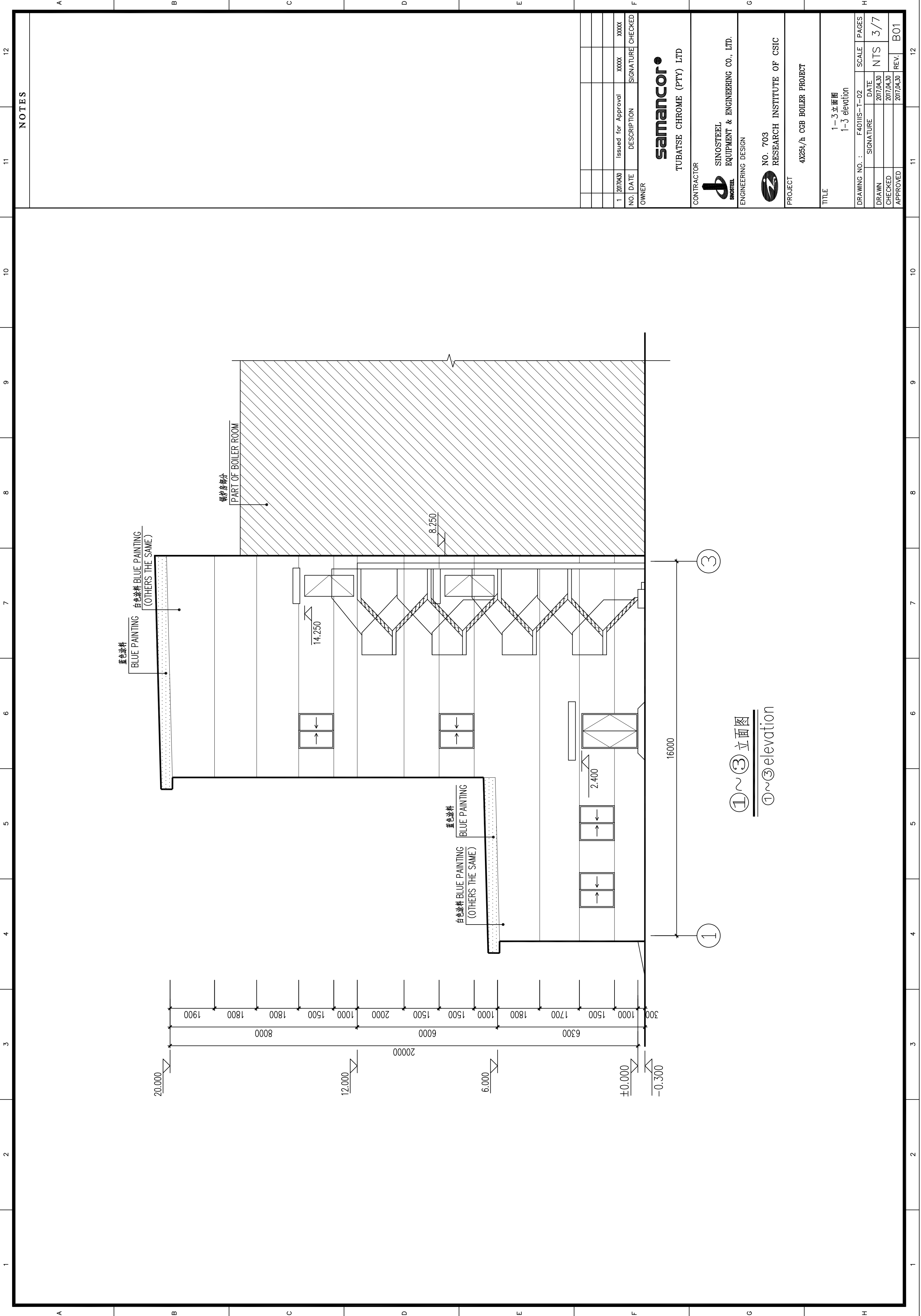


NO. 703
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PROJECT

4X25t/h CGB BOILER PROJECT

TITLE		DRAWING NO. :		SCALE		PAGES	
除氧间及控制间12,000平面图, 屋顶平面图 12,000 plan, roof plan of deaerator room and control room		F4011IS-T-02		NTS		2/7	
DRAWN	SIGNATURE	DATE	2017.04.30	CHECKED	SIGNATURE	DATE	2017.04.30
APPROVED	SIGNATURE	DATE	2017.04.30	REV.	REV.	REV.	B01



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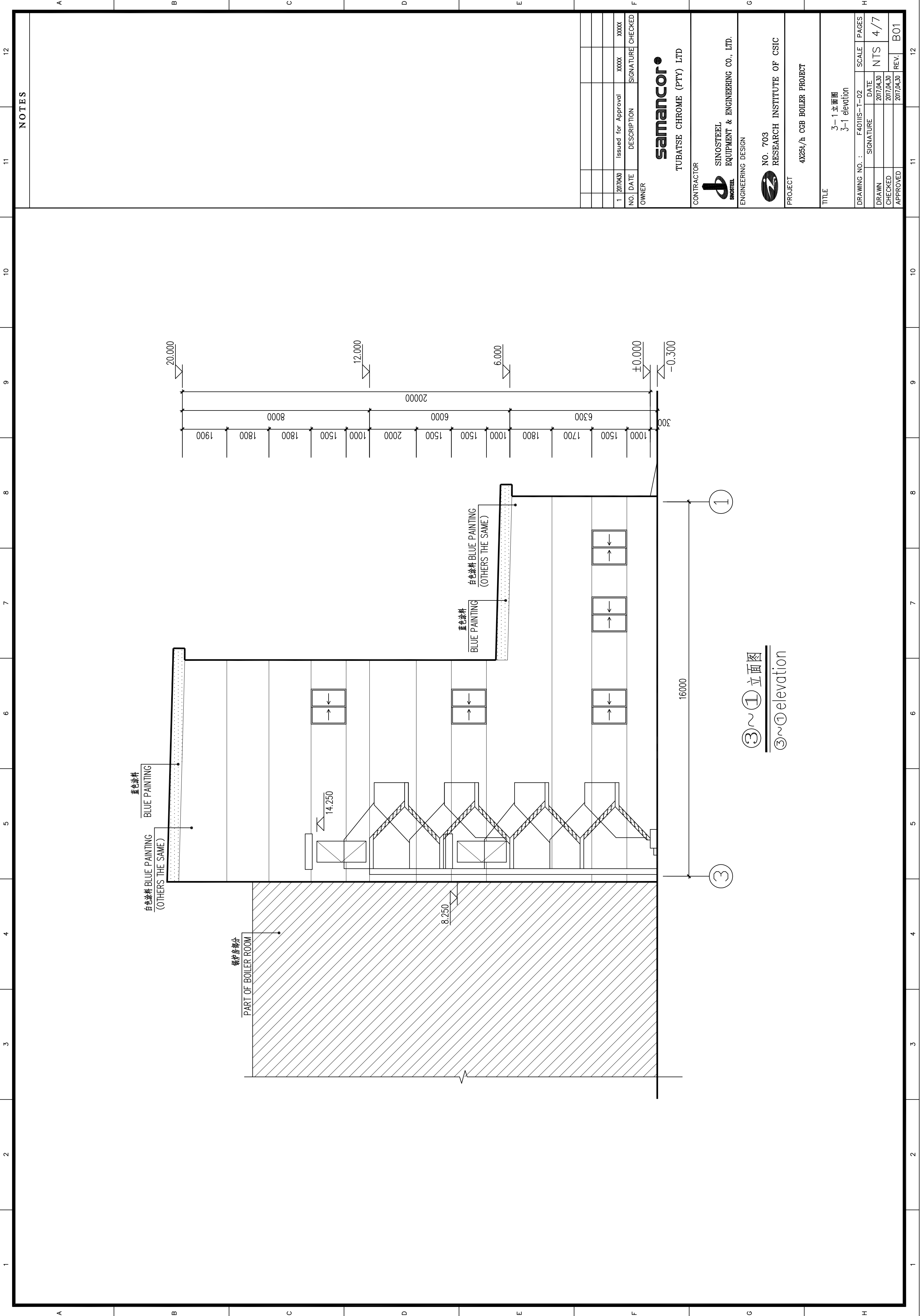
PROJECT

4X25t/h CGB BOILER PROJECT

TITLE

1-3 立面图
1-3 elevation

DRAWING NO. :	F4011IS-T-02	SCALE	PAGES
SIGNATURE	DATE	NTS	3/7
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APPROVED	2017/04/30		



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PROJECT

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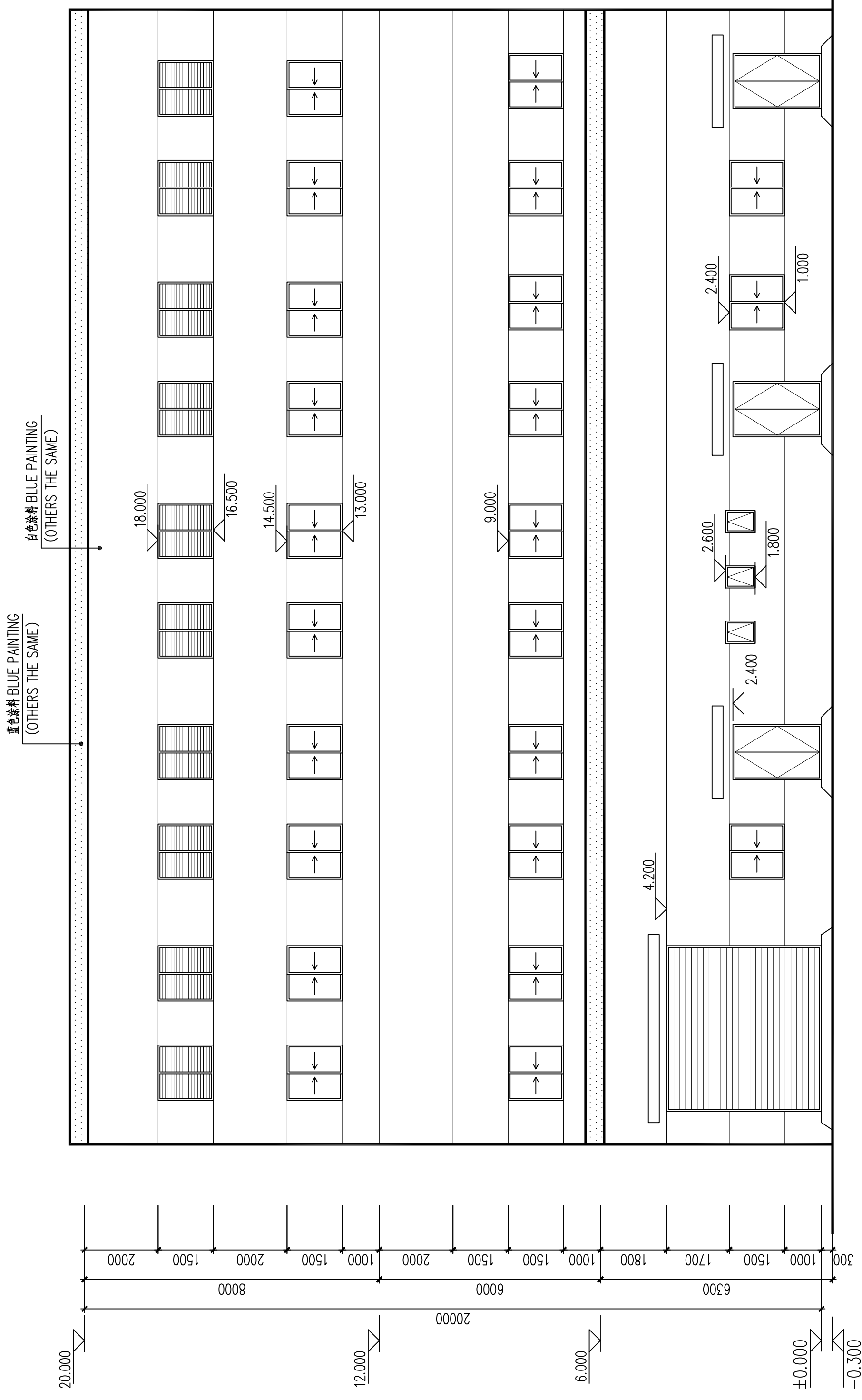
TITLE

3-1 立面图
3-1 elevation

DRAWING NO. :	SIGNATURE	DATE	SCALE	PAGES
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		2017/04/30		
		2017/04/30		B01

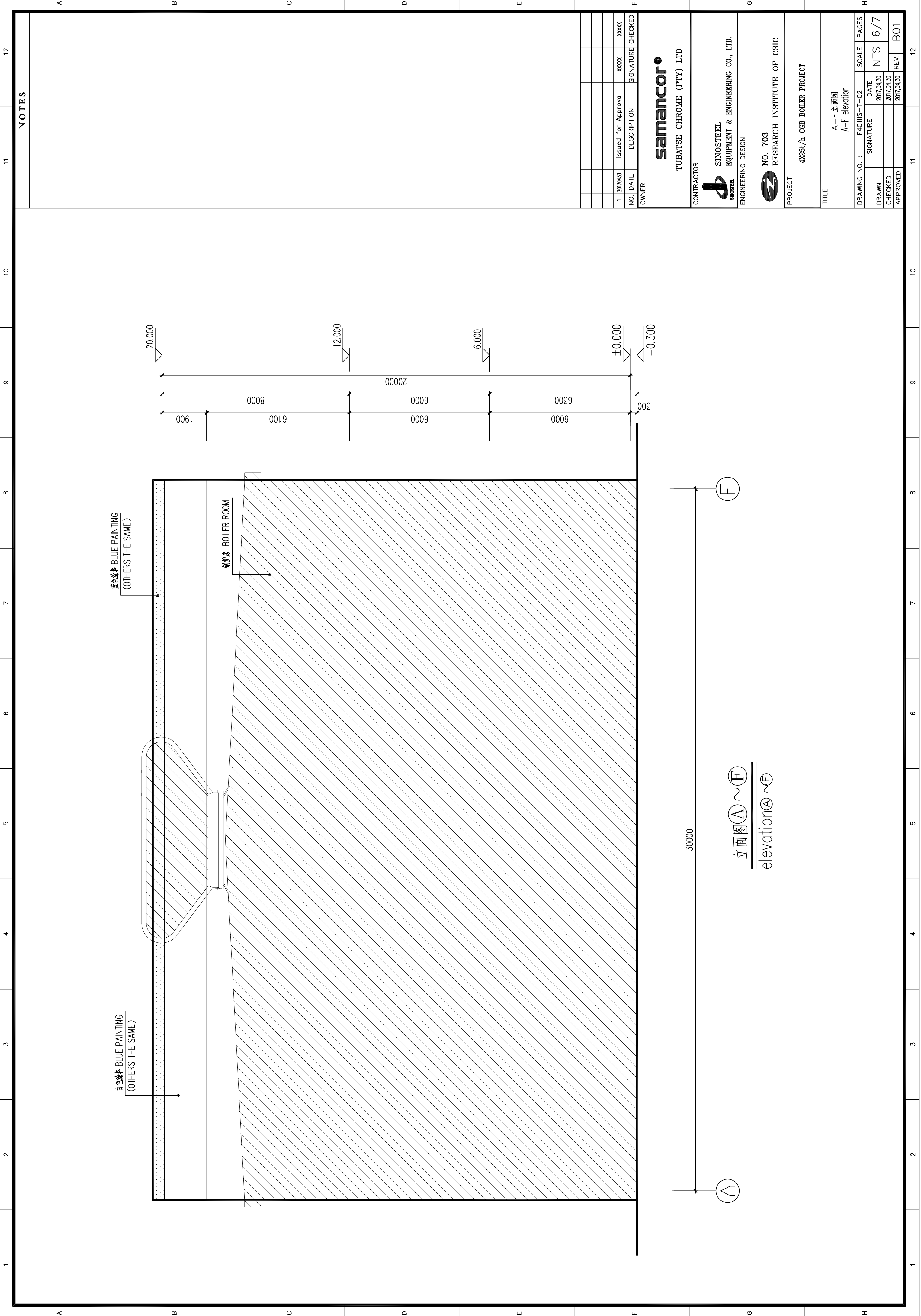
③~① 立面图
③~① elevation

NOTES		11		12	
OWNER		samancor [®]		TUBATSE CHROME (PTY) LTD	
CONTRACTOR		SINOSTEEL ENGINEERING DESIGN		SINOSTEEL EQUIPMENT & ENGINEERING CO., LTD.	
PROJECT		NO. 703 RESEARCH INSTITUTE OF CSIC		4X25t/h CGB BOILER PROJECT	
TITLE		F-A 立面图 F-A elevation			
DRAWING NO. : F4011S-T-02		SCALE		PAGES	
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2017.04.30		2017.04.30		5/7	
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APPROVED		2017.04.30		B01	



30000

ⓕ~ⓐ 立面图
ⓕ~ⓐ elevation

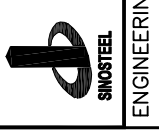


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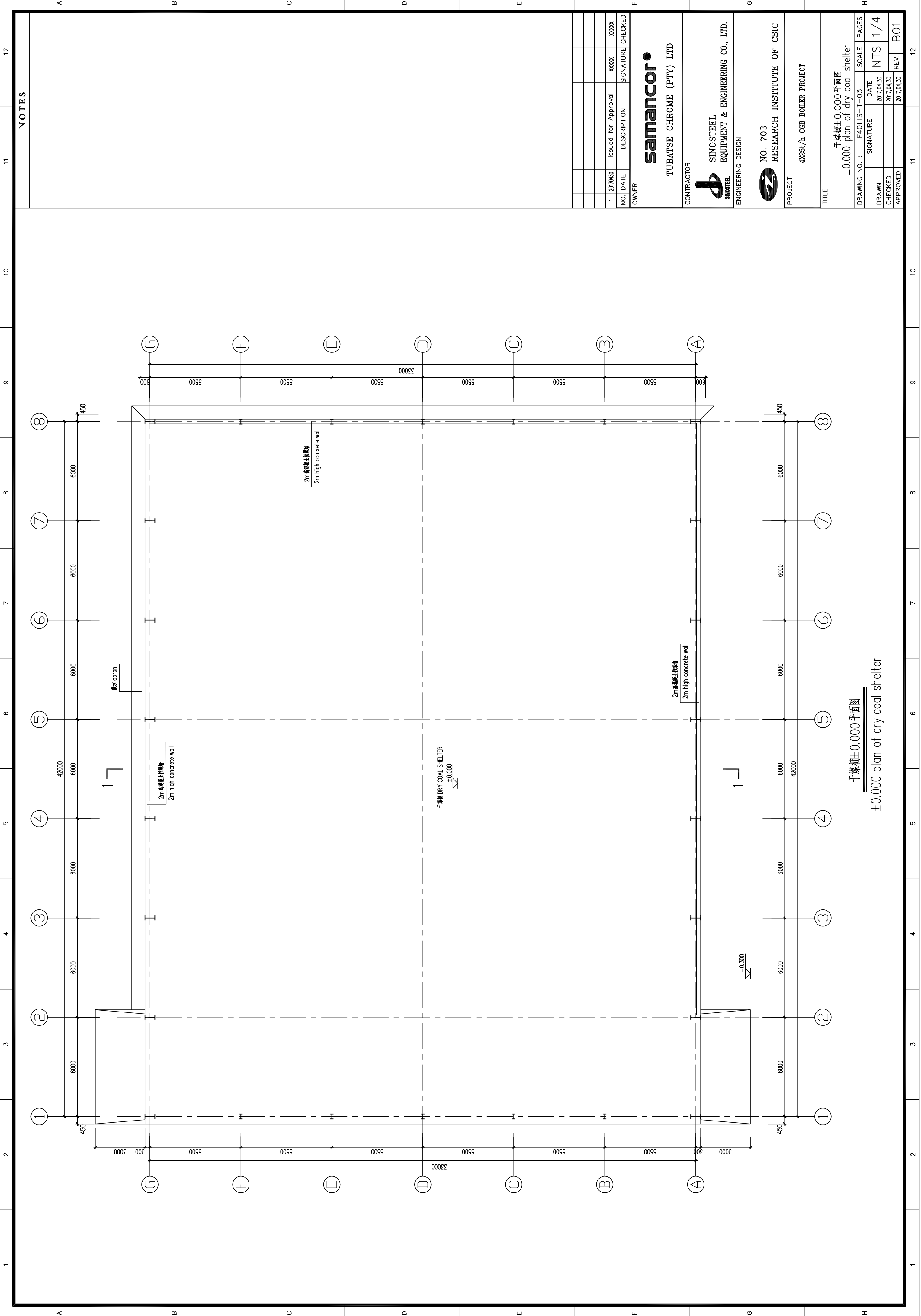
PROJECT

4X25t/h CGB BOILER PROJECT

TITLE

A-F 立面图
A-F elevation

DRAWING NO. :	F4011IS-T-02	SCALE	PAGES
SIGNATURE	DATE	NTS	6/7
CHECKED	2017/04/30	REV.	B01
APPROVED	2017/04/30		




干煤棚±0.000平面图
±0.000 plan of dry coal shelter

NOTES

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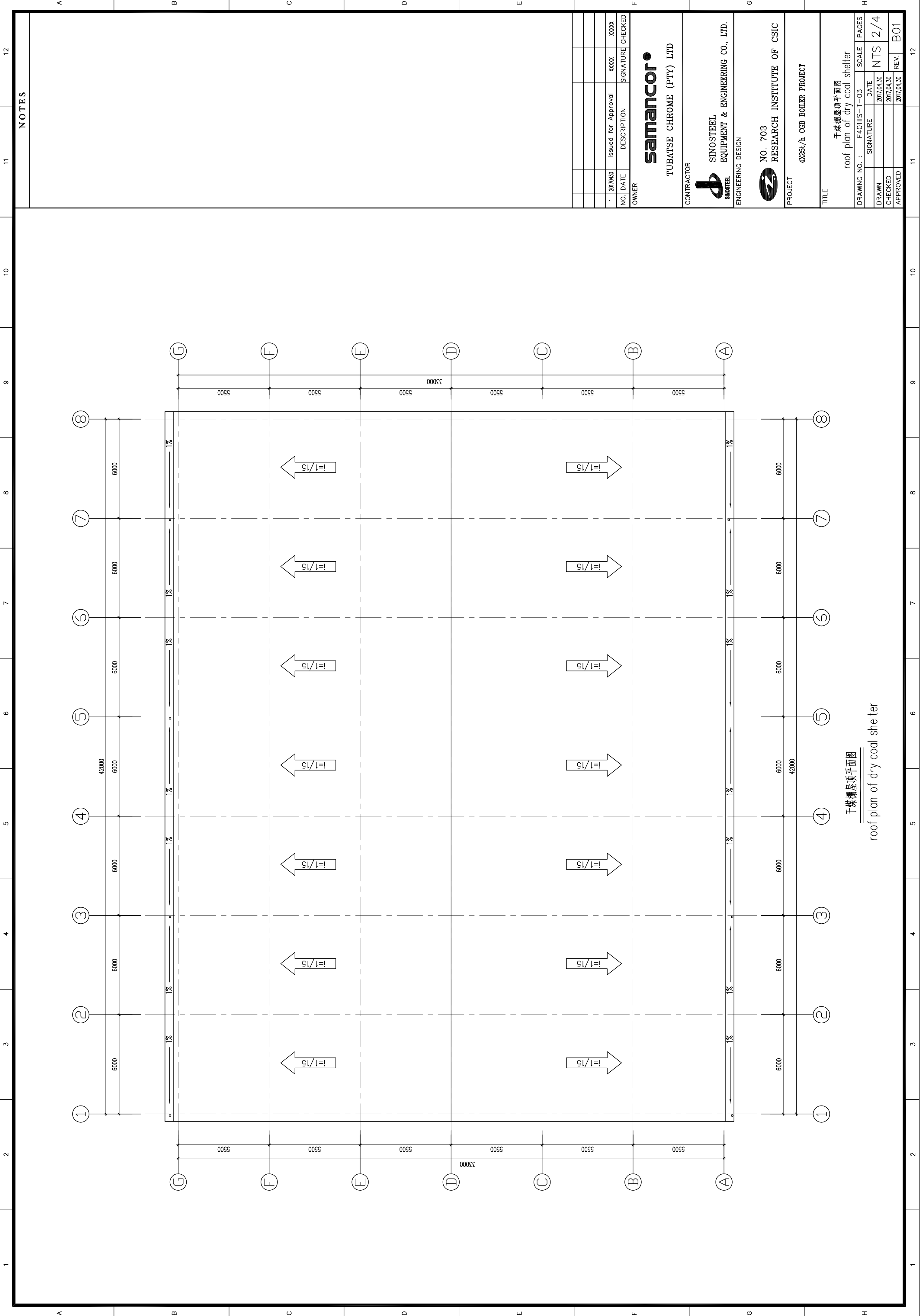
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PROJECT
 4X25t/h CGB BOILER PROJECT

TITLE
 干煤棚±0.000平面图
 ±0.000 plan of dry coal shelter


DRAWING NO.:	SIGNATURE	DATE	SCALE	PAGES
F4011IS-T-03		2017.04.30	NTS	1/4
CHECKED		2017.04.30	REV.	B01
APPROVED		2017.04.30		



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TITLE
 干煤棚屋顶平面图
 roof plan of dry coal shelter



DRAWING NO.:	SCALE	PAGES
F4011IS-T-03		

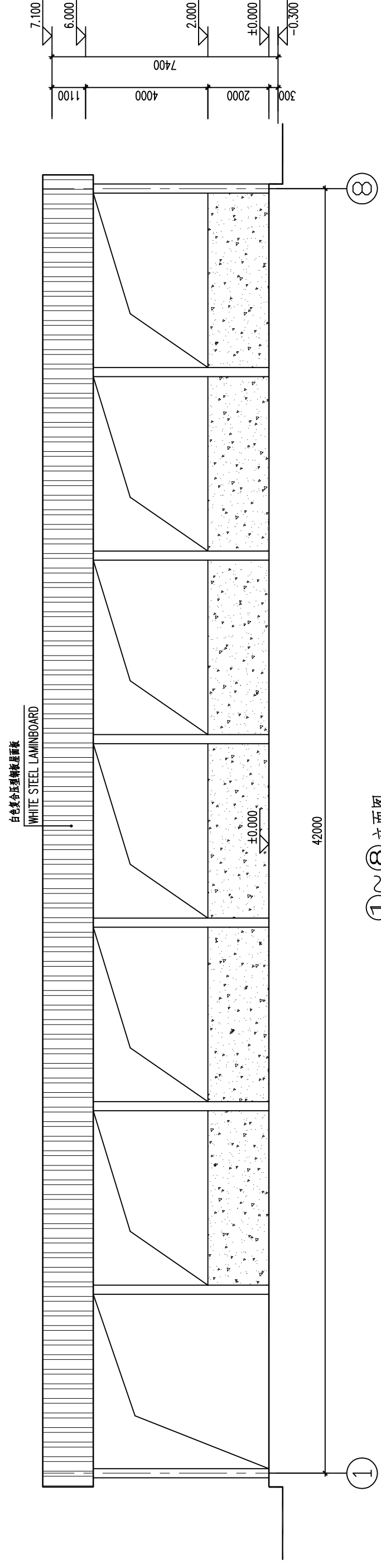
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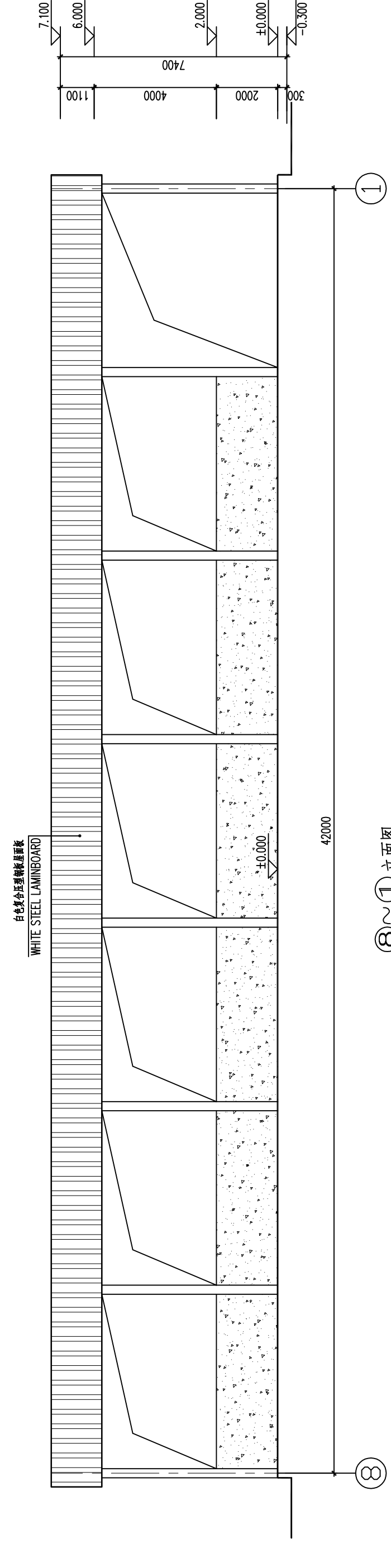
APPROVED	SIGNATURE	DATE
		2017.04.30

干煤棚屋顶平面图
 roof plan of dry coal shelter

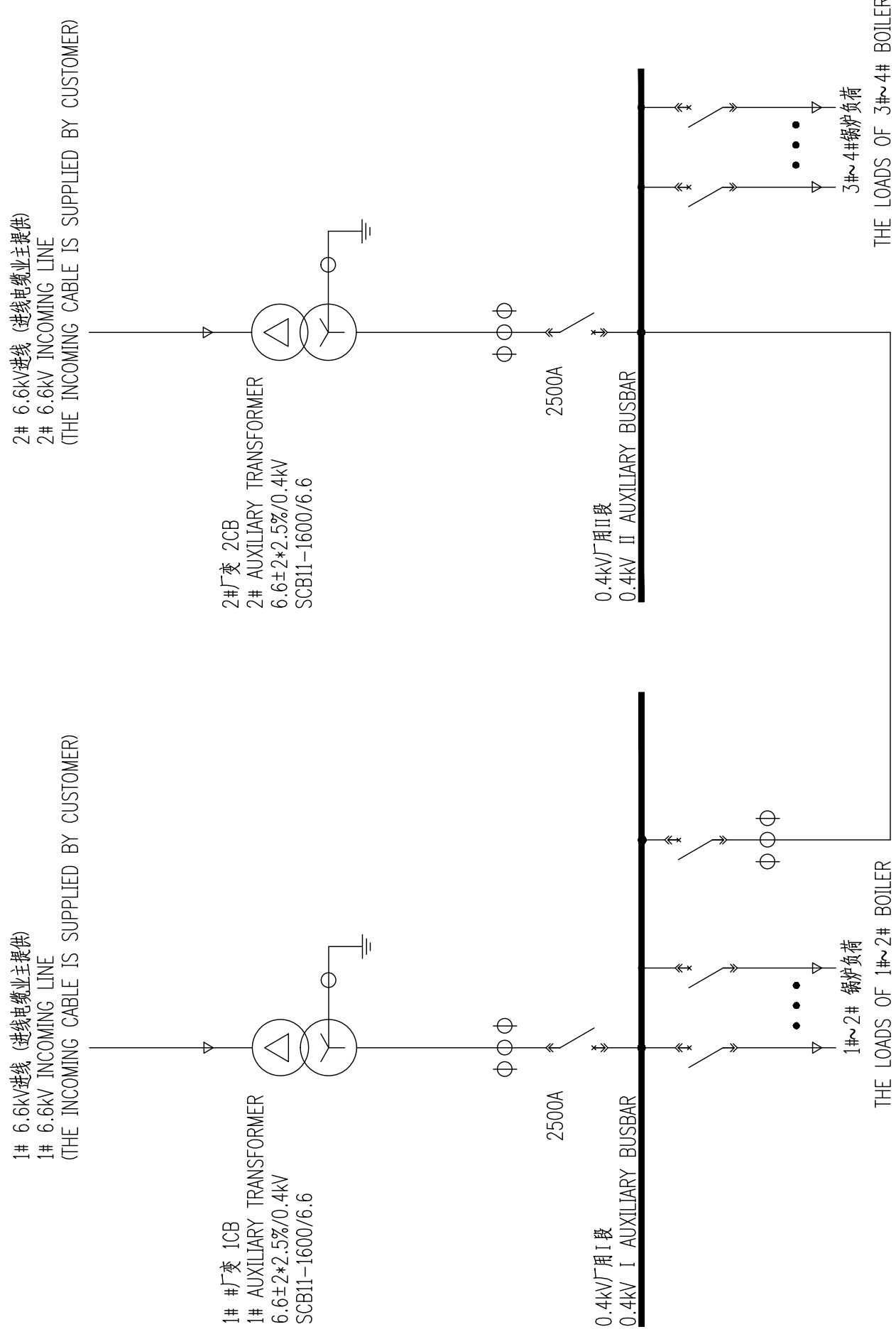
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4X25t/h CGB BOILER PROJECT																				
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1-8 立面图 , 8-1 立面图 1-8 elevation, 8-1 elevation																				
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①~⑧ 立面图
①~⑧ elevation



⑧~① 立面图
⑧~① elevation



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PROJECT
4X25t/h CGB BOILER PROJECT

TITLE
400V 单线图
400V ONE LINE DIAGRAM

DRAWING NO. :	F4011IS-D-01	SCALE	PAGES
SIGNATURE	DATE	NTS	1/9
CHECKED	2017.04.30		
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开关柜型号:SIEMENS 8PT
 母线 A,B,C:TMY-3×(2×60×10)
 母线 N:TMY-2×60×10
 母线 PE:TMY-1X60X10
 额定电压:AC 400V
 额定电流:2500A
 额定短路开断电流 Ik:50kA
 SWITCHGEAR TYPE:SIEMENS 8PT
 MAIN BUS A,B,C:TMY-3×(2×60×10)
 N BUS:TMY-2×60×10
 PE BUS:TMY-1×60×10
 Ue:AC 400V
 In:2500A
 Ik:50kA

柜编号	EQUIPMENT NUMBER	D101	D102	D103	01	02	03	04	05	06	07
回路编号	CIRCUIT NUMBER	6×NH000 6A									
浪涌保护器	SURGE PROTECTIVE DEVICE	5SD74 T1 350V 75kA 4P									
断路器	CIRCUIT BREAKER	3WL2B25 3P ETU27B	3VL57 MA	3VL27 MA	3VL27 MA	3VL27 MA	3VL27 MA	3VL27 MA	3VL27 MA	3RV132 MA	3RV132 MA
电动机软启动器	MOTOR SOFT START	3RW4075	3TF57								
交流接触器	AC CONTACTOR	3TF57	3TF57								
热继电器	THERMAL RELAY										
各自投装置	AUTOMATIC SWITCHING DEVICE	7U0681 AC110V									
多功能电表	MULTI-FUNCTIONAL METER	SENTRON PAC3100									
电压互感器	VOLTAGE TRANSFORMER	6×380/100V									
电流互感器	CURRENT TRANSFORMER	2500/5A	500/5A	500/5A	150/5A	150/5A	150/5A	150/5A	150/5A	15/5A	15/5A
电流表	AMMETER										
负荷容量	LOAD CAPACITY	1400kVA	200kW	200kW	55kW	55kW	55kW	55kW	55kW	4kW	4kW
回路名称	EQUIPMENT NAME	1#进线	1#引风机	2#引风机	1#给水泵	2#给水泵	3#给水泵	备用	备用	1#埋刮板输送机	2#埋刮板输送机
设备名称	EQUIPMENT NAME	1# POWER INCOMING FEEDER	1# INDUCED FAN	2# INDUCED FAN	1# FEEDWATER PUMP	2# FEEDWATER PUMP	3# FEEDWATER PUMP	SPARE	SPARE	1# SJAG SCRAPER	2# SJAG SCRAPER
电缆	CABLE	ZRYJV22-0.6/1									
电缆编号	CABLE NUMBER										
设备高度	DRAWER HEIGHT mm				300	300	300	300	300	100	100
柜宽×柜深×柜高	REFERENCE CIRCUIT DIAGRAM NUMBER	800×1000×2200	600×1000×2200	600×1000×2200							
柜宽×柜深×柜高 (Width×Deep×High,mm)											

OWNER

NO. DATE 1 20170430 Issued for Approval 签名 日期

DESCRIPTION SIGNATURE CHECKED

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PROJECT
 4X25t/h CGB BOILER PROJECT

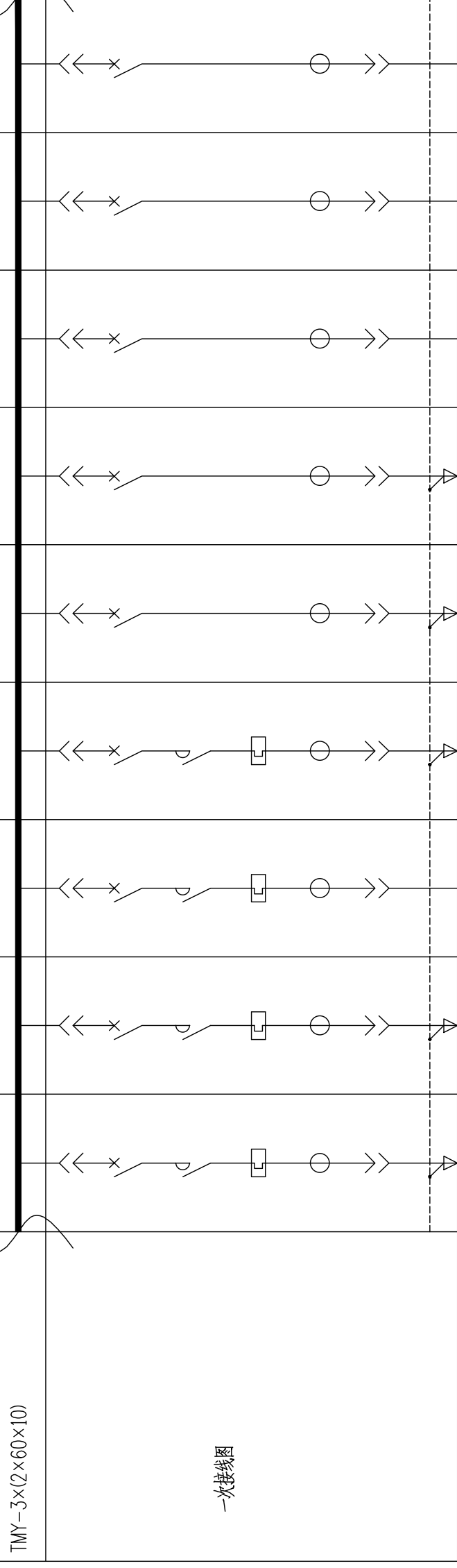
TITLE
 400V 单线图
 400V ONE LINE DIAGRAM

DRAWING NO. : F4011IS-D-01	SCALE	PAGES
SIGNATURE	DATE	2/9
2017.04.30	NTS	
2017.04.30	REV.	B01

开关柜型号:SIEMENS 8PT
 母线 A,B,C:TMY-3×(2×60×10)
 母线 N:TMY-2×60×10
 母线 PE:TMY-1X60X10
 额定电压:AC 400V
 额定电流:2500A
 额定短路开断电流 Ik:50kA
 SWITCHGEAR TYPE:SIEMENS 8PT
 MAIN BUS A,B,C:TMY-3×(2×60×10)
 N BUS:TMY-2×60×10
 PE BUS:TMY-1×60×10
 Ue:AC 400V
 In:2500A
 Ik:50kA

连接D105柜

连接D103柜



一次接线图

柜编号	EQUIPMENT NUMBER	回路编号	CIRCUIT NUMBER	断路器	FUSE	浪涌保护器	SURGE PROTECTIVE DEVICE	断路器	CIRCUIT BREAKER	电动机软启动器	MOTOR SOFT START	交流接触器	AC CONTACTOR	热继电器	THERMAL RELAY	各自投装置	AUTOMATIC SWITCHING DEVICE	多功能电表	MULTI-FUNCTIONAL METER	电压互感器	VOLTAGE TRANSFORMER	电流互感器	CURRENT TRANSFORMER	电流表	AMMETER	负荷容量	LOAD CAPACITY	回路名称	EQUIPMENT NAME	电缆	CABLE ZRYJV22-0.6/1	电缆编号	CABLE NUMBER	设备高度	DRAWER HEIGHT	mm	柜宽×柜深×柜高	(Width×Deep×High,mm)							
01		01																																											
02		02																																											
03		03																																											
04		04																																											
05		05																																											
06		06																																											
07		07																																											
08		08																																											
09		09																																											

600×1000×2200

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PROJECT

4X25t/h CGB BOILER PROJECT

TITLE

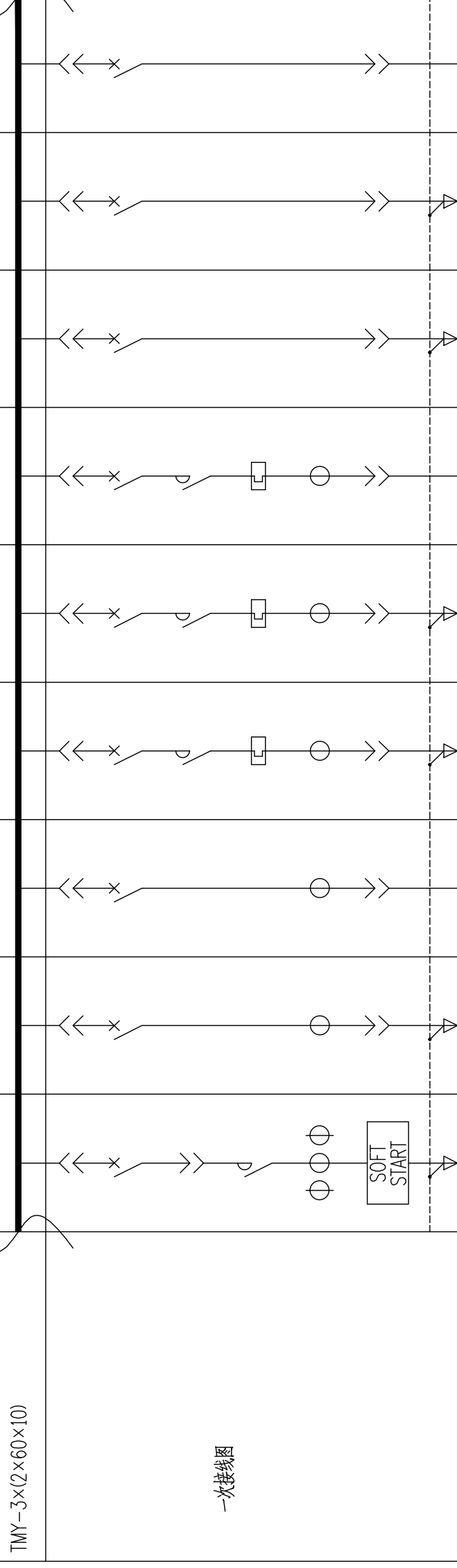
400V 单线图
 400V ONE LINE DIAGRAM

DRAWING NO.:	F4011IS-D-01	SCALE	PAGES
SIGNATURE	DATE	NTS	3/9
CHECKED	2017.04.30		
APPROVED	2017.04.30	REV.	B01

开关柜型号:SIEMENS 8PT
 母线 A,B,C: TMY-3×(2×60×10)
 母线 N: TMY-2×60×10
 母线 PE: TMY-1X60X10
 额定电压: AC 400V
 额定电流: 2500A
 额定短路开断电流: Ik:50kA
 SWITCHGEAR TYPE: SIEMENS 8PT
 MAIN BUS A,B,C: TMY-3×(2×60×10)
 N BUS: TMY-2×60×10
 PE BUS: TMY-1×60×10
 Ue: AC 400V
 In: 2500A
 Ik: 50kA

连接D106柜

连接D104柜



一次接线图

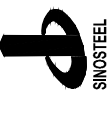
柜编号	EQUIPMENT NUMBER	回路编号	CIRCUIT NUMBER	断路器	FUSE	浪涌保护器	SURGE PROTECTIVE DEVICE	断路器	CIRCUIT BREAKER	电动机软启动器	MOTOR SOFT START	交流接触器	AC CONTACTOR	热继电器	THERMAL RELAY	各自装置	AUTOMATIC SWITCHING DEVICE	多功能电表	MULTI-FUNCTIONAL METER	电压互感器	VOLTAGE TRANSFORMER	电流互感器	CURRENT TRANSFORMER	电流表	AMMETER	负荷容量	LOAD CAPACITY	回路名称	EQUIPMENT NAME	电缆	CABLE ZRYJV22-0.6/1	电缆编号	CABLE NUMBER	设备高度	DRAWER HEIGHT	mm	回路图号	REFERENCE CIRCUIT DIAGRAM NUMBER					
01		01																																									
		02																																									
		03																																									
		04																																									
		05																																									
		06																																									
		07																																									
		08																																									
		09																																									
600×1000×2200																																											

NOTES



TUBATSE CHROME (PTY) LTD

CONTRACTOR



SINO STEEL EQUIPMENT & ENGINEERING CO., LTD.

ENGINEERING DESIGN



NO. 703 RESEARCH INSTITUTE OF CSIC

PROJECT

4X25t/h CGB BOILER PROJECT

TITLE

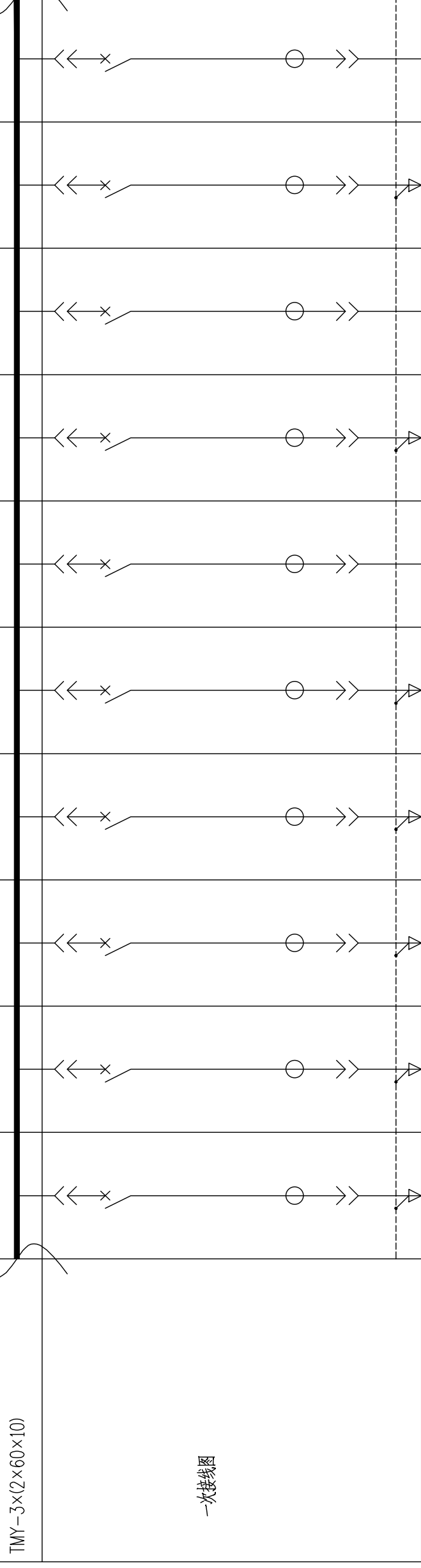
400V 单线图
400V ONE LINE DIAGRAM

DRAWING NO.:	F4011IS-D-01	SCALE	PAGES	
SIGNATURE	DATE	NTS	4/9	
CHECKED	2017.04.30			
APPROVED	2017.04.30	REV.	B01	

开关柜型号:SIEMENS 8PT
 母线 A,B,C:TMY-3×(2×60×10)
 母线 N:TMY-2×60×10
 母线 PE:TMY-1X60X10
 额定电压:AC 400V
 额定电流:2500A
 额定短路开断电流 Ik:50kA
 SWITCHGEAR TYPE:SIEMENS 8PT
 MAIN BUS A,B,C:TMY-3×(2×60×10)
 N BUS:TMY-2×60×10
 PE BUS:TMY-1×60×10
 Ue:AC 400V
 In:2500A
 Ik:50kA

连接D107柜

连接D105柜



柜编号	EQUIPMENT NUMBER	回路编号	CIRCUIT NUMBER	断路器	浪涌保护器	SURGE PROTECTIVE DEVICE	断路器	CIRCUIT BREAKER	电动机启动器	MOTOR SOFT START	交流接触器	AC CONTACTOR	热继电器	THERMAL RELAY	各自装置	AUTOMATIC SWITCHING DEVICE	多功能电表	MULTI-FUNCTIONAL METER	电压互感器	VOLTAGE TRANSFORMER	电流互感器	CURRENT TRANSFORMER	电流表	AMMETER	负荷容量	LOAD CAPACITY	回路名称	EQUIPMENT NAME	电缆	CABLE	电缆编号	CABLE NUMBER	设备高度	DRAWER HEIGHT	柜宽×柜深×柜高	REFERENCE CIRCUIT DIAGRAM NUMBER
01	3VT100N	01	02	3VT100N			3VT100N										50kW		1# KP1		150/5A		50kW		1# KP1		1# 锅炉配电箱 1# BOILER POWER CABINET				150	150	600×1000×2200			
02	3VT100N	02	03	3VT100N			3VT100N										30kW		2# 锅炉配电箱 1# BOILER POWER CABINET		75/5A		30kW		1# 锅炉配电箱 1# BOILER POWER CABINET					150	150					
03	3VT100N	03	04	3VT100N			3VT100N										30kW		1# 除尘配电箱 1# ASH HANDLING POWER CABINET		75/5A		30kW		1# 除尘配电箱 1# ASH HANDLING POWER CABINET					150	150					
04	3VT100N	04	05	3VT100N			3VT100N										30kW		水泵房配电箱 1# BOILER POWER CABINET		75/5A		30kW		水泵房配电箱 1# BOILER POWER CABINET					150	150					
05	3VT100N	05	06	3VT100N			3VT100N										30kW		备用		75/5A		30kW		备用					150	150					
06	3RV103	06	07	3RV103			3RV103										20kW		1# AC UPS		50/5A		20kW		1# AC UPS					150	150					
07	3RV103	07	08	3RV103			3RV103										20kW		备用		50/5A		20kW		备用					150	150					
08	3RV103	08	09	3RV103			3RV103										10kW		1# DC UPS		25/5A		10kW		1# DC UPS					150	150					
09	3RV103	09	10	3RV103			3RV103										20kW		备用		25/5A		20kW		备用					150	150					
10	3RV103	10																	备用						备用											

一次接线图

NOTES

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TUBATSE CHROME (PTY) LTD

CONTRACTOR

SINOSTEEL
EQUIPMENT & ENGINEERING CO., LTD.

ENGINEERING DESIGN

NO. 703
RESEARCH INSTITUTE OF CSIC

PROJECT

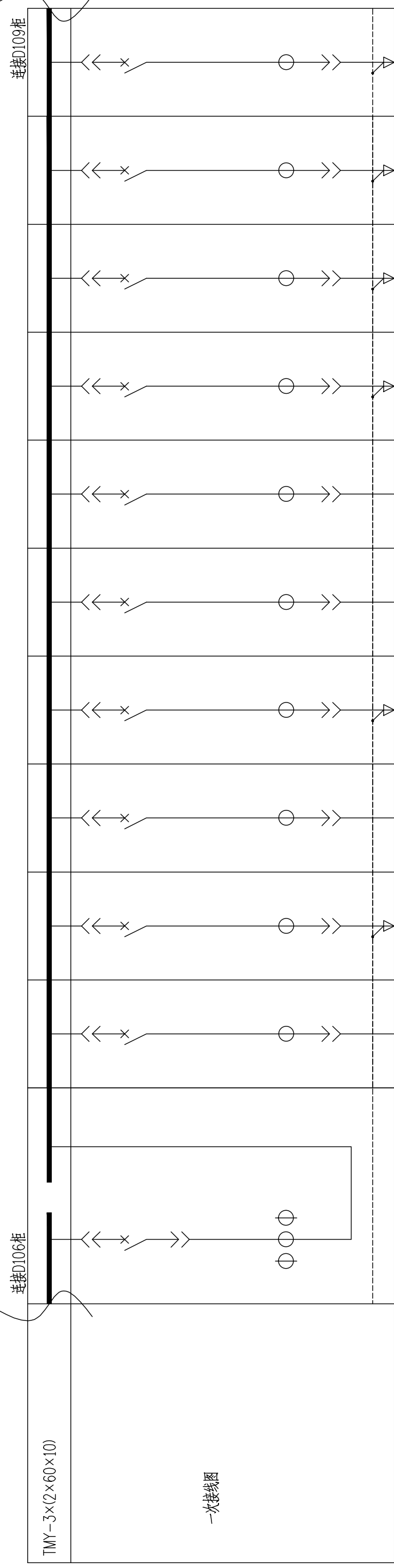
4X25t/h CGB BOILER PROJECT

TITLE

400V 单线图
400V ONE LINE DIAGRAM

DRAWING NO.:	F401IIS-D-01	SCALE	PAGES
SIGNATURE	DATE	NTS	5/9
CHECKED	2017.04.30		
APPROVED	2017.04.30	REV.	B01

开关柜型号:SIEMENS 8PT
 母线 A,B,C:TMY-3×(2×60×10)
 母线 N:TMY-2×60×10
 母线 PE:TMY-1X60X10
 额定电压:AC 400V
 额定电流:2500A
 额定短路开断电流 Ik:50kA
 SWITCHGEAR TYPE:SIEMENS 8PT
 MAIN BUS A,B,C:TMY-3×(2×60×10)
 N BUS:TMY-2×60×10
 PE BUS:TMY-1×60×10
 Ue:AC 400V
 In:2500A
 Ik:50kA

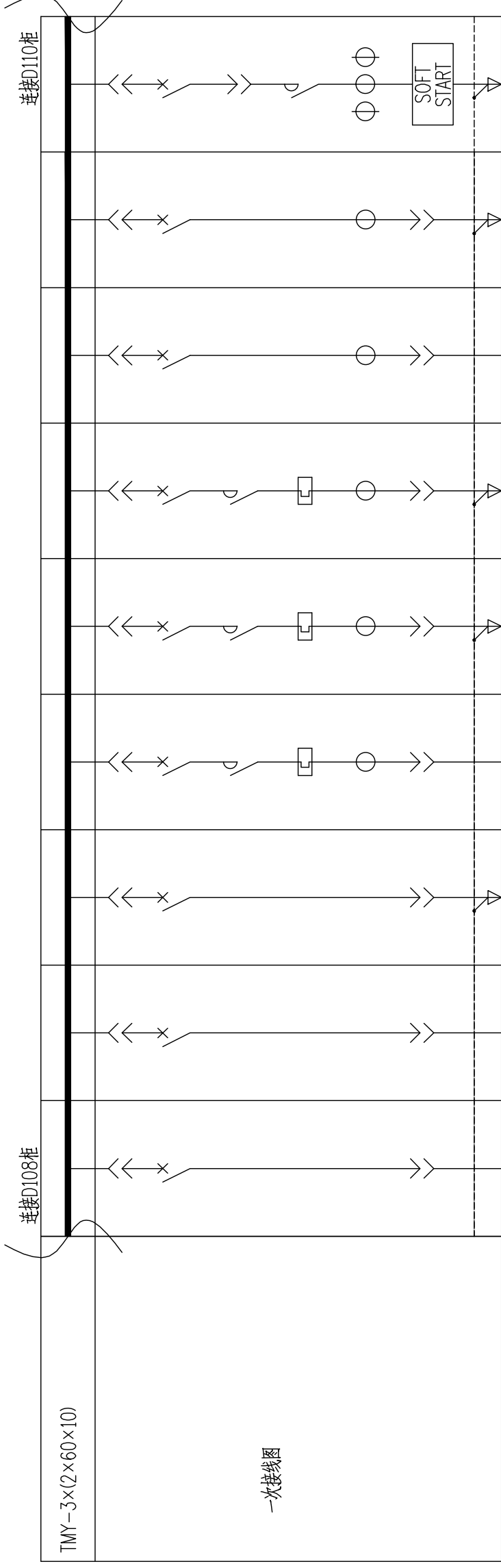


柜编号	EQUIPMENT NUMBER	D107	D108	01	02	03	04	05	06	07	08	09	10			
回路编号	CIRCUIT NUMBER															
断路器	FUSE															
浪涌保护器	SURGE PROTECTIVE DEVICE															
断路器	CIRCUIT BREAKER															
电动机启动器	MOTOR SOFT START															
交流接触器	AC CONTACTOR															
热继电器	THERMAL RELAY															
各自投装置	AUTOMATIC SWITCHING DEVICE															
多功能电表	MULTI-FUNCTIONAL METER															
电压互感器	VOLTAGE TRANSFORMER															
电流互感器	CURRENT TRANSFORMER															
电流表	AMMETER															
负荷容量	LOAD CAPACITY															
回路名称	EQUIPMENT NAME															
电缆	CABLE ZRYJV22-0.6/1															
电缆编号	CABLE NUMBER															
设备高度	DRAWER HEIGHT mm															
回路图号	REFERENCE CIRCUIT DIAGRAM NUMBER															
柜宽×柜深×柜高	(Width×Deep×High,mm)															

NOTES

NO. DATE	1 20170430	Issued for Approval	Gu zhengwei	Me yi
NO. DATE		DESCRIPTION	SIGNATURE	CHECKED
OWNER				
samancor				
TUBATSE CHROME (PTY) LTD				
CONTRACTOR				
 SINO STEEL EQUIPMENT & ENGINEERING CO., LTD. ENGINEERING DESIGN				
PROJECT				
NO. 703 RESEARCH INSTITUTE OF CSIC				
PROJECT				
4X25t/h CGB BOILER PROJECT				
TITLE				
400V 单线图 400V ONE LINE DIAGRAM				
DRAWING NO.:	F401IIS-D-01	SCALE	PAGES	
DRAWN	SIGNATURE	DATE	NTS	6/9
CHECKED		2017.04.30		
APPROVED		2017.04.30	REV.	B01

开关柜型号:SIEMENS 8PT
 母线 A,B,C:TMY-3×(2×60×10)
 母线 N:TMY-2×60×10
 母线 PE:TMY-1X60X10
 额定电压:AC 400V
 额定电流:2500A
 额定短路开断电流 Ik:50kA
 SWITCHGEAR TYPE:SIEMENS 8PT
 MAIN BUS A,B,C:TMY-3×(2×60×10)
 N BUS:TMY-2×60×10
 PE BUS:TMY-1×60×10
 Ue:AC 400V
 In:2500A
 Ik:50kA



柜编号	EQUIPMENT NUMBER	回路编号	CIRCUIT NUMBER	断路器	浪涌保护器	SURGE PROTECTIVE DEVICE	断路器	CIRCUIT BREAKER	电动机启动器	MOTOR SOFT START	交流接触器	AC CONTACTOR	热继电器	THERMAL RELAY	各自装置	AUTOMATIC SWITCHING DEVICE	多功能电表	MULTI-FUNCTIONAL METER	电压互感器	VOLTAGE TRANSFORMER	电流互感器	CURRENT TRANSFORMER	电流表	AMMETER	负荷容量	LOAD CAPACITY	回路名称	EQUIPMENT NAME	电缆	CABLE ZRYJV22-0.6/1	电缆编号	CABLE NUMBER	设备高度	DRAWER HEIGHT	mm	柜宽×柜深×柜高	(Width×Deep×High,mm)		
01		01		3VL37																																			
02		02		3VT160N																																			
03		03		3VT160N																																			
04		04		3RV132																																			
05		05		3RV132																																			
06		06		3RV132																																			
07		07		3RV102																																			
08		08		3RV102																																			
09		09		3RV102																																			
600×1000×2200																																							

NOTES

samancor

TUBATSE CHROME (PTY) LTD

CONTRACTOR
 SINOSTEEL
 SINOSTEEL
 ENGINEERING DESIGN

OWNER
 Issued for Approval
 Cu zhengwei
 Mo yi

NO. 703
 RESEARCH INSTITUTE OF CSIC

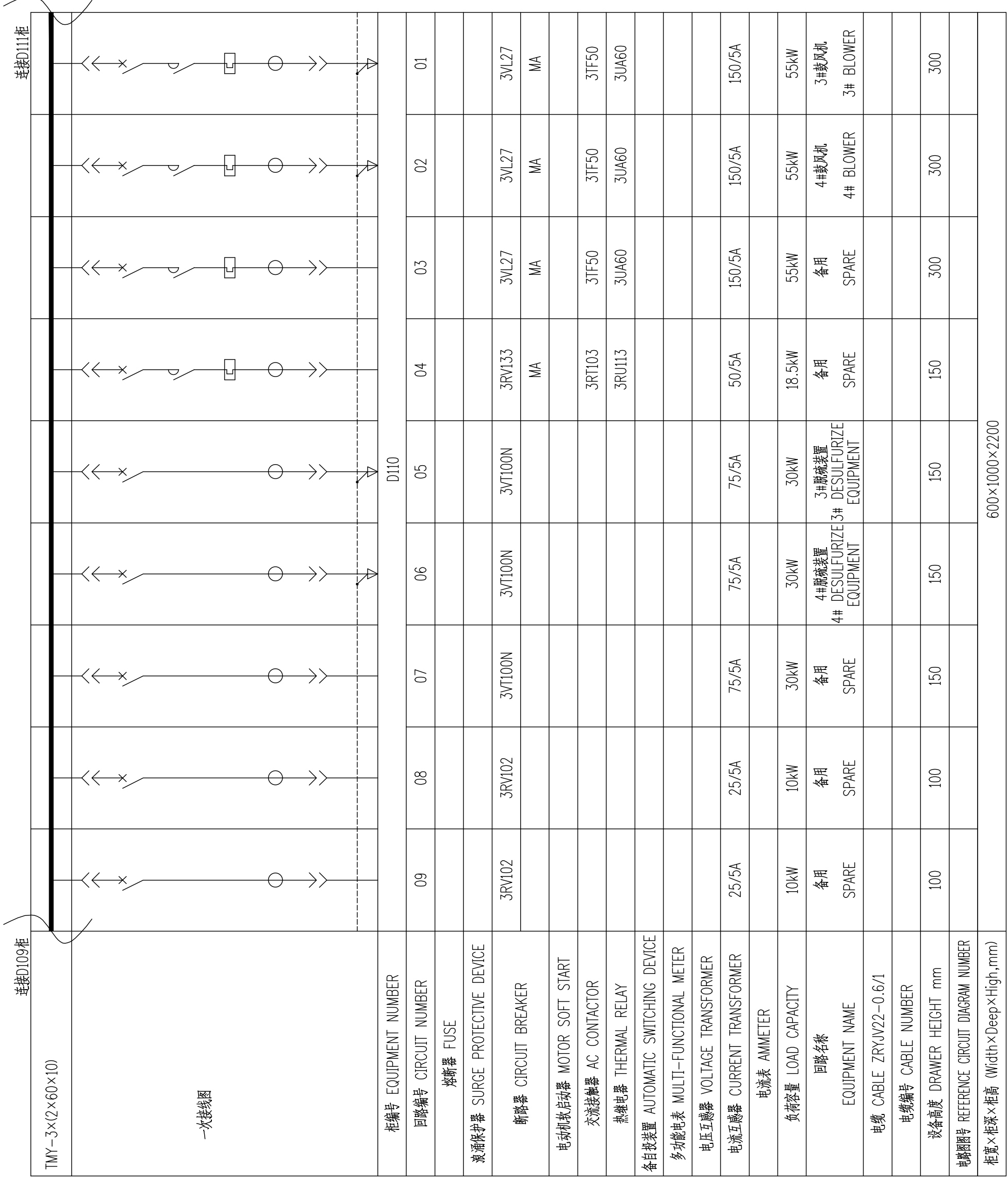
PROJECT
 4X25t/h CGB BOILER PROJECT

TITLE
 400V 单线图
 400V ONE LINE DIAGRAM

DRAWING NO.:	F4011IS-D-01	SCALE	PAGES
SIGNATURE	DATE	NTS	7/9
CHECKED	2017.04.30		
APPROVED	2017.04.30	REV.	B01

开关柜型号:SIEMENS 8PT
 母线 A,B,C:TMY-3×(2×60×10)
 母线 N:TMY-2×60×10
 母线 PE:TMY-1X60X10
 额定电压:AC 400V
 额定电流:2500A
 额定短路开断电流 Ik:50kA
 SWITCHGEAR TYPE:SIEMENS 8PT
 MAIN BUS A,B,C:TMY-3×(2×60×10)
 N BUS:TMY-2×60×10

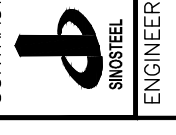
PE BUS:TMY-1×60×10
 Ue:AC 400V
 In:2500A
 Ik:50kA



NOTES



TUBATSE CHROME (PTY) LTD



ENGINEERING DESIGN
 NO. 703
 RESEARCH INSTITUTE OF CSIC

PROJECT
 4X25t/h CGB BOILER PROJECT

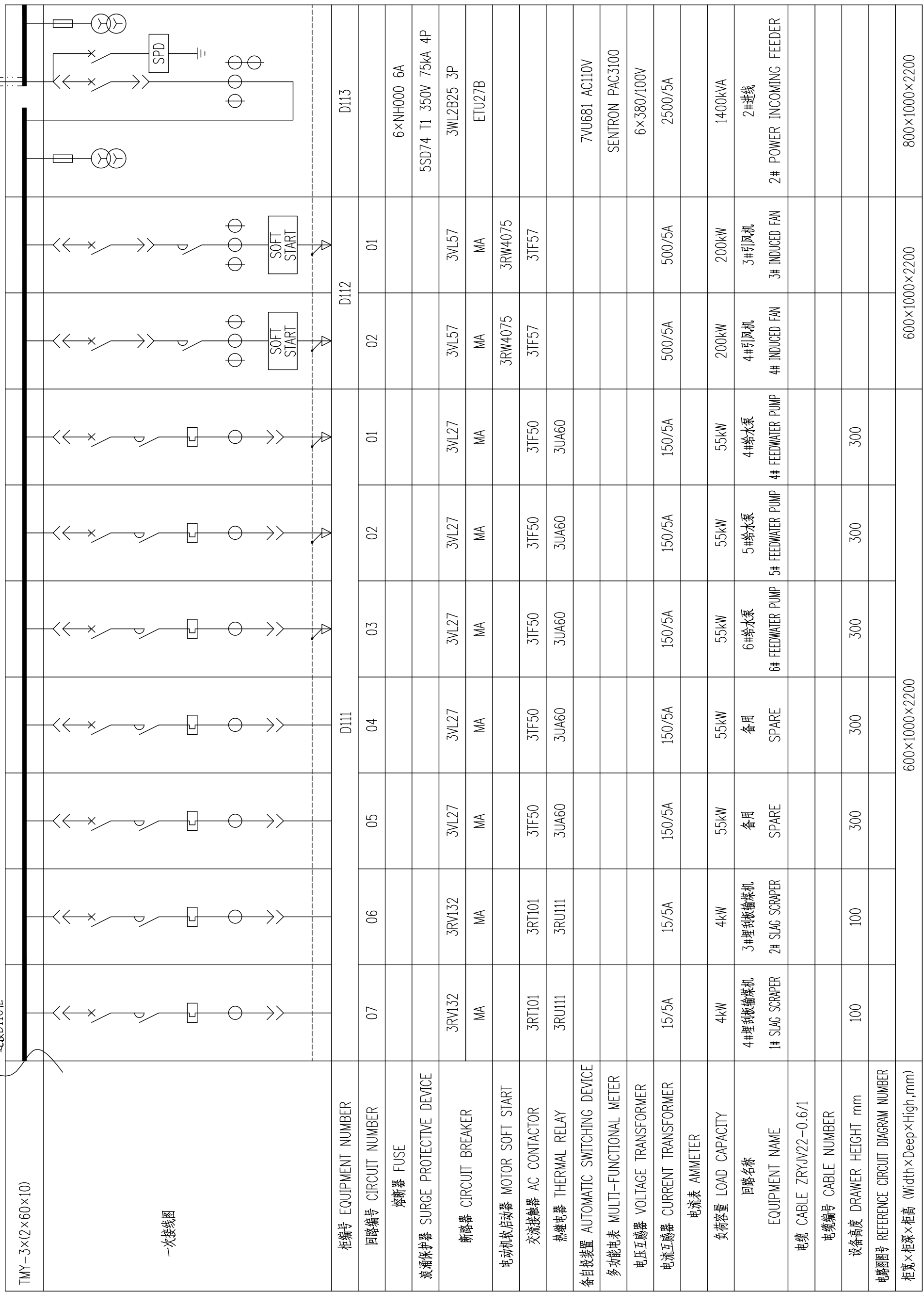
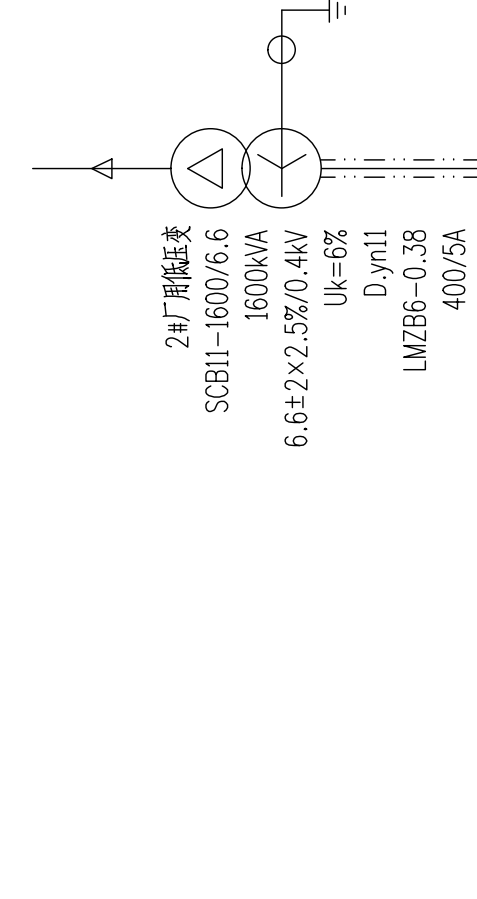
TITLE
 400V 单线图
 400V ONE LINE DIAGRAM

DRAWING NO. :	F4011IS-D-01	SCALE	PAGES
SIGNATURE	DATE	NTS	8/9
CHECKED	2017.04.30		
APPROVED	2017.04.30	REV.	B01

1 2 3 4 5 6 7 8 9 10 11 12

A B C D E F G H

NOTES



开关柜型号:SIEMENS 8PT	母线 A,B,C:TMY-3×(2×60×10)	母线 N:TMY-2×60×10	母线 PE:TMY-1X60X10	额定电压:AC 400V	额定电流:2500A	额定短路开断电流 Ik:50kA	SWITCHEGEAR TYPE:SIEMENS 8PT	MAIN BUS A,B,C:TMY-3×(2×60×10)	N BUS:TMY-2×60×10	PE BUS:TMY-1×60×10	Ue:AC 400V	In:2500A	Ik:50kA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
柜编号	EQUIPMENT NUMBER	回路编号	CIRCUIT NUMBER	熔断器	FUSE	浪涌保护器	SURGE PROTECTIVE DEVICE	断路器	CIRCUIT BREAKER	电动机启动器	MOTOR SOFT START	交流接触器	AC CONTACTOR	热继电器	THERMAL RELAY	各自投装置	AUTOMATIC SWITCHING DEVICE	多功能电表	MULTI-FUNCTIONAL METER	电压互感器	VOLTAGE TRANSFORMER	电流互感器	CURRENT TRANSFORMER	电流表	AMMETER	负荷容量	LOAD CAPACITY	回路名称	EQUIPMENT NAME	电缆	CABLE ZRYV22-0.6/1	电缆编号	CABLE NUMBER	设备高度	DRAWER HEIGHT mm	柜宽×柜深×柜高	REFERENCE CIRCUIT DIAGRAM NUMBER (Width×Deep×High,mm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
07		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

OWNER

NO. DATE 1 20170430 Issued for Approval 签名: 日期: 2017.04.30

DESCRIPTION SIGNATURE CHECKED

samancor

TUBATSE CHROME (PTY) LTD

CONTRACTOR

SINOSTEEL EQUIPMENT & ENGINEERING CO., LTD. ENGINEERING DESIGN

NO. 703 RESEARCH INSTITUTE OF CSIC

PROJECT 4X25t/h CGB BOILER PROJECT

TITLE 400V 单线图 400V ONE LINE DIAGRAM

DRAWING NO.: F401IIS-D-01 SCALE PAGES 9/9

DRAWN SIGNATURE DATE 2017.04.30

CHECKED SIGNATURE DATE 2017.04.30

APPROVED SIGNATURE DATE 2017.04.30 REV. B01

NOTES

NO.	DATE	DESCRIPTION	SIGNATURE	CHECKED
1	2017/04/30	Issued for Approval	XXXXX	XXXXX

OWNER
samancor
TUBATSE CHROME(PTY) LTD

CONTRACTOR
SINOSTEEL
SINOSTEEL EQUIPMENT & ENGINEERING CO., LTD.
ENGINEERING DESIGN

NO. 703
RESEARCH INSTITUTE OF CSIC

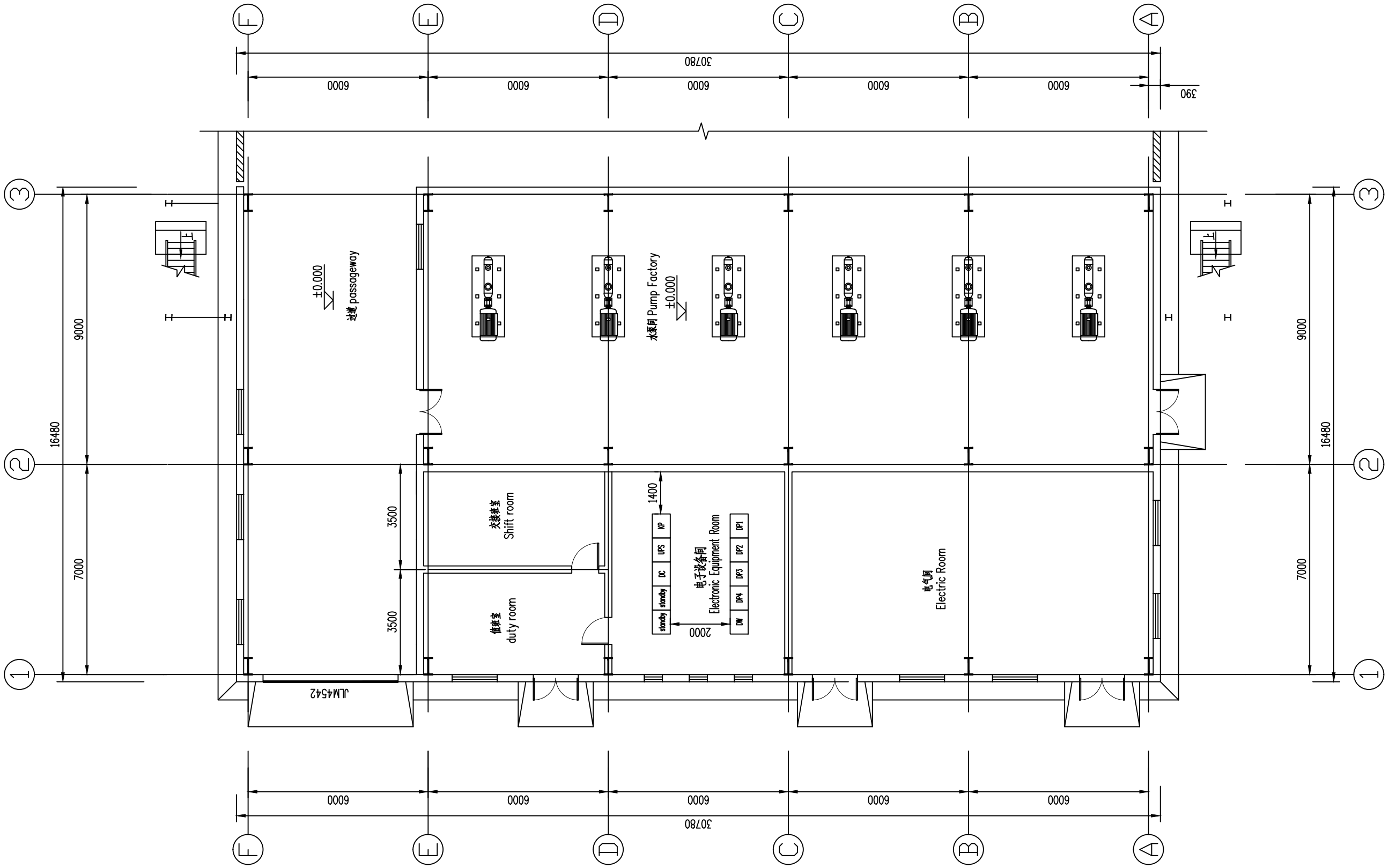
PROJECT
SUBMERGED ARC FURNACE FUME WASTE HEAT
POWER GENERATION PROJECT

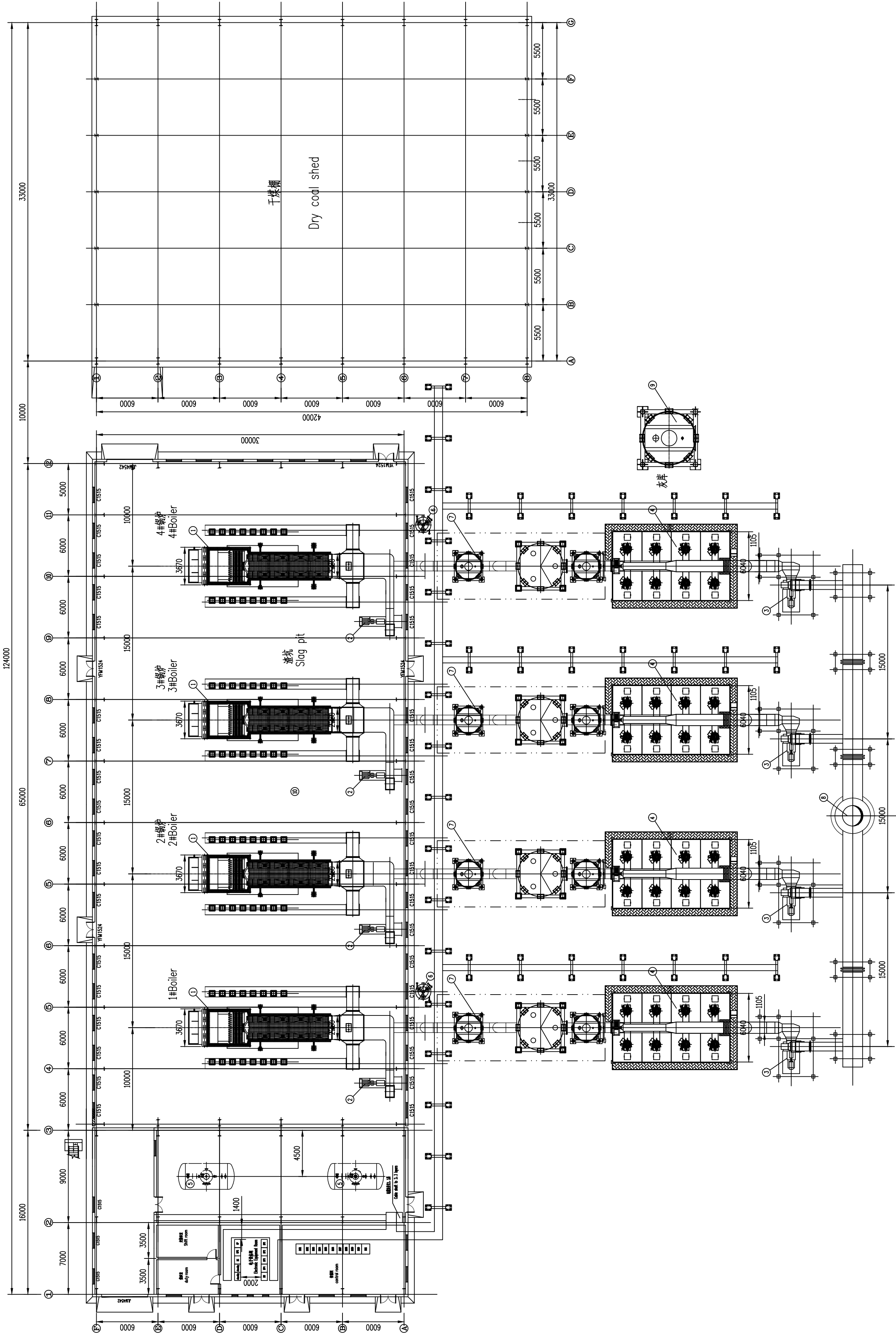
TITLE
爐地控室佈置圖
LAYOUT DIAGRAM FOR LOCAL CONTROL ROOM

DRAWN	CHECKED	APPROVED	SIGNATURE	DATE	SCALE	PAGES
				2017/04/30	NTS	1/1
				2017/04/30		REV. B01

Equipment list for I&C

No.	Code	Name	QTY.	Remark
1	DW	爐地控DCS電源分配櫃 Power supply cabinet for DCS of CCB	1	800×600×2200
2	DPI~4	1~4#爐地控DCS控櫃 DCS cabinet of CCB1~4	4	800×600×2200
3	KP	熱控站櫃 Power supply cabinet for I&C	1	800×600×2200
4	UPS	不斷電電源櫃 UPS cabinet	1	800×600×2200
5	DC	電池櫃 Battery cabinet	1	800×600×2200





NO.	DATE	DESCRIPTION	SIGNATURE	CHECKED
1	20170430	Issued for Approval	XXXX	XXXX

OWNER
samancor
 TUBATSE CHROME(PTY) LTD

CONTRACTOR
SINOSTEEL
 SINOSTEEL EQUIPMENT & ENGINEERING CO., LTD.
 ENGINEERING DESIGN

PROJECT
 NO. 703
 RESEARCH INSTITUTE OF CSIC

SUBMERGED ARC FURNACE FUME WASTE HEAT
 POWER GENERATION PROJECT

TITLE
 转炉炉厂炉电渣主通流走向图
 LAYOUT DIAGRAM FOR CABLE ROUTING OF CGB PLANT

DRAWN	CHECKED	APPROVED	SIGNATURE	DATE	SCALE	PAGES
				2017.04.30	NTS	1/1
				2017.04.30		REV. B01

