

* NOTE
 - SIZE : 1600 W x 1900 H x 800 D 양문형 Door
 - COLOR : RAL-7032
 - TYPE : Steel Fabricated, Self standing Cabinet
 - Eletroc Control (Panel Hole) : 2" x 2ea, 1" x 1ea
 - Material : Door (Steel 3.2T) / Other side steel 2.3T

← Output Signal Terminal Block
 ← Flow Switch Box Terminal Block
 ← Analyzer Power Toggle Switch Box
 ← Pump, Flow Switch Toggle Switch Box

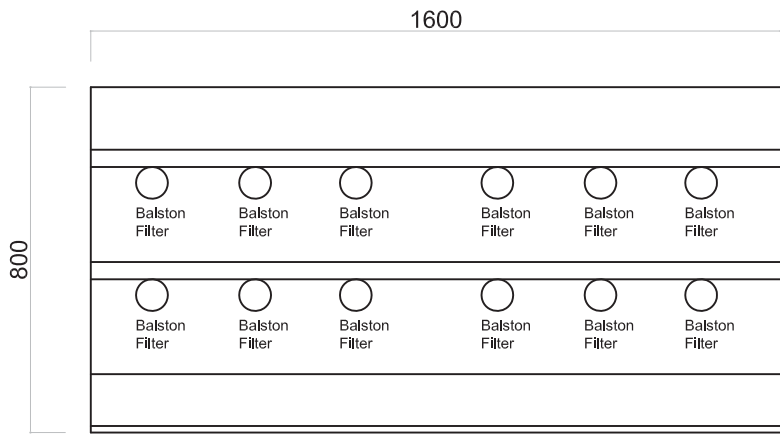
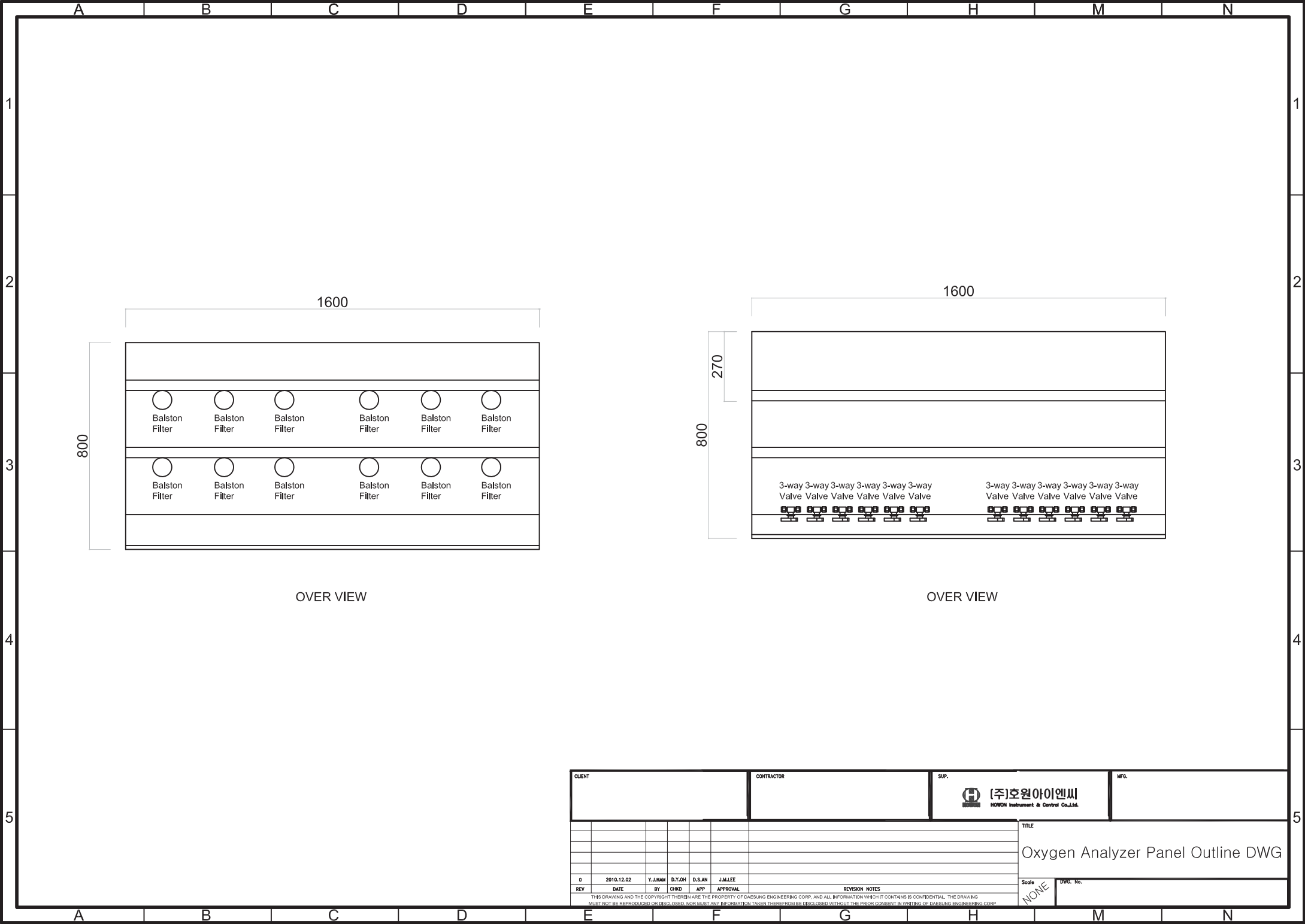
FRONT VIEW

INNER VIEW

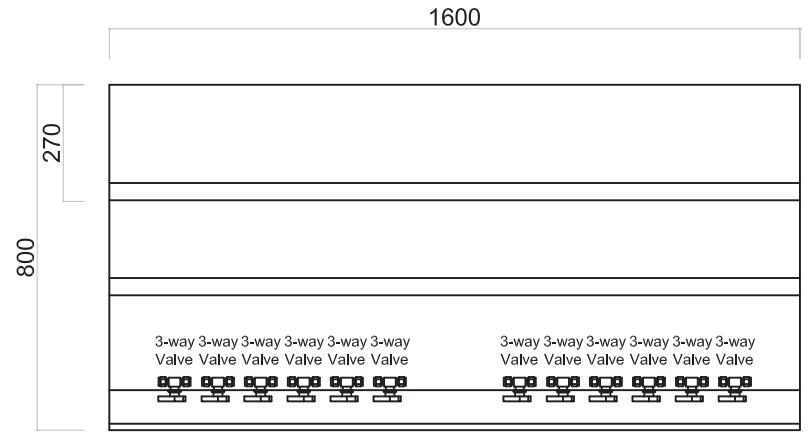
INSIDE VIEW

No	Description	Model	Maker
01	O2 Analyzer control unit	3290Z	Teledyne
02	3-way valve	SBV120H23-S-4	BMT
03	Flow switch	VASP-5	Dwyer
04	Zr O2 sensor	S-1441	Teledyne
05	Balston filter	95S6	Balston
06	Pump	MOA-P101-CD	Gast
07	Flowmeter	VFA-23-SSV	Dwyer

CLIENT		CONTRACTOR		SUP.		MFG.	
				 (주)호원아이엔씨 HOSON Instrument & Control Co., Ltd.			
1 2010.12.02 Y.J.HAM D.Y.OH D.S.AN J.M.LEE 0 2010.11.25 Y.J.HAM D.Y.OH D.S.AN J.M.LEE						TITLE Oxygen Analyzer Panel Outline DWG	
REV DATE BY CHKD APP APPROVAL REVISION NOTES <small>THIS DRAWING AND THE COPYRIGHT THEREIN ARE THE PROPERTY OF DAESUNG ENGINEERING CORP. AND ALL INFORMATION WHICH CONTAINS IS CONFIDENTIAL. THE DRAWING MUST NOT BE REPRODUCED OR DISCLOSED, NOR MUST ANY INFORMATION TAKEN THEREFROM BE DISCLOSED WITHOUT THE PRIOR CONSENT IN WRITING OF DAESUNG ENGINEERING CORP.</small>						Scale NONE DWG. No.	

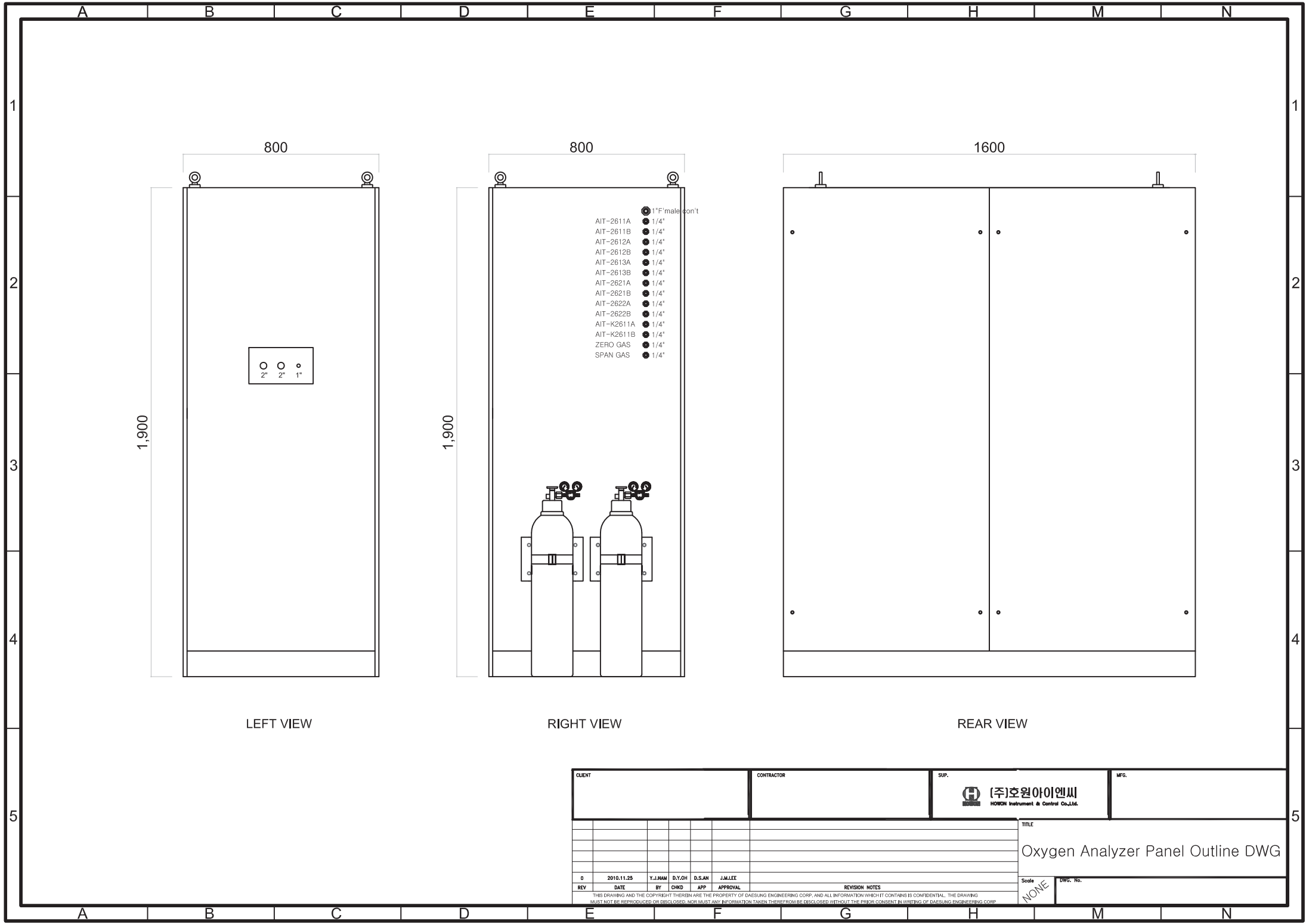


OVER VIEW



OVER VIEW


CLIENT				CONTRACTOR				SUP.		MFG.	
								 (주)호원아이엔씨 HOSON Instrument & Control Co., Ltd.			
								TITLE			
								Oxygen Analyzer Panel Outline DWG			
								Scale		DWG. No.	
								NONE			
0	2010.12.02	Y.J.HAM	D.Y.OH	D.S.AN	J.M.LEE						
REV	DATE	BY	CHKD	APP	APPROVAL	REVISION NOTES					
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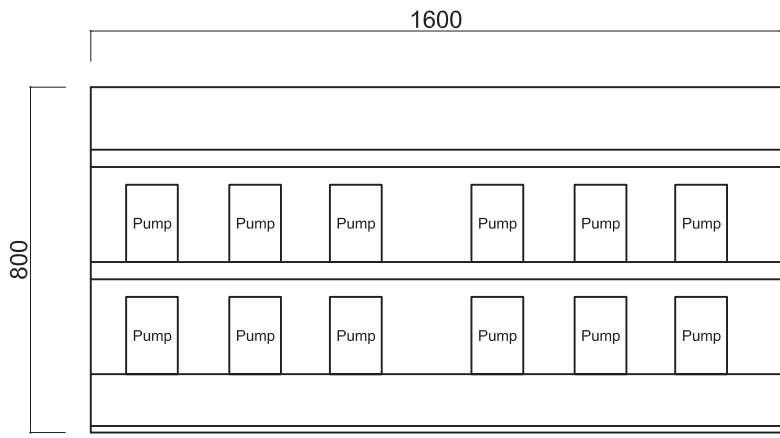
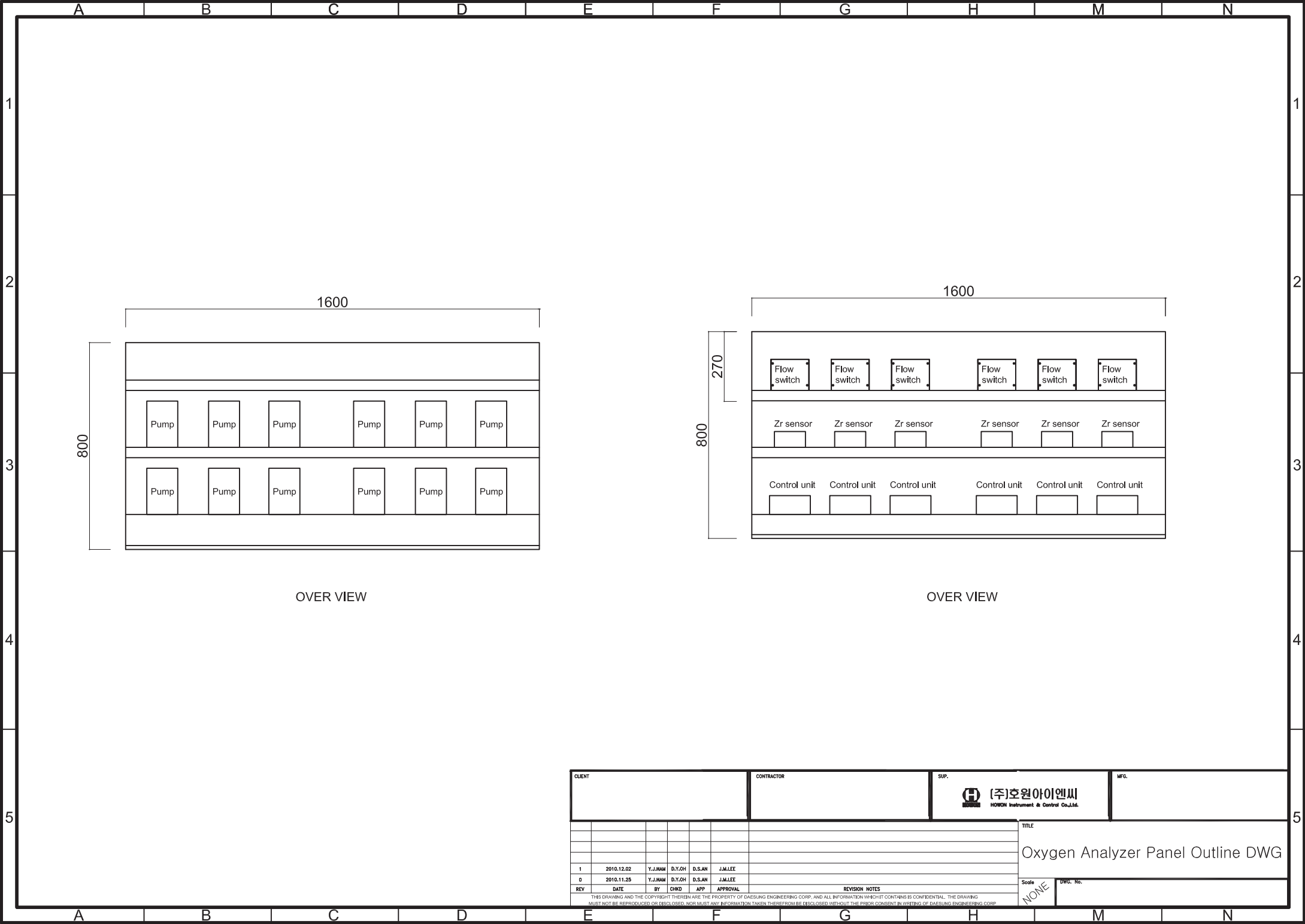


LEFT VIEW

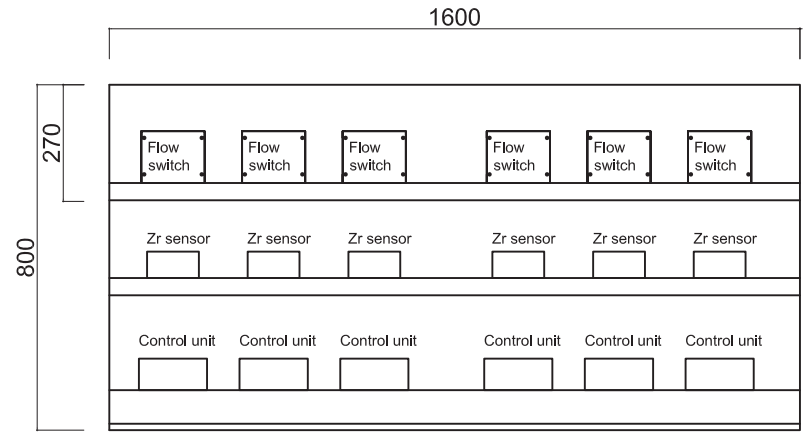
RIGHT VIEW

REAR VIEW

CLIENT		CONTRACTOR			SUP.		 (주)호원아이앤씨 HOSON Instrument & Control Co., Ltd.		MFG.		
								TITLE			
								Oxygen Analyzer Panel Outline DWG			
								Scale		DWG. No.	
								NONE			
0	2010.11.25	Y.J.HAM	D.Y.OH	D.S.AN	J.M.LEE			REVISION NOTES			
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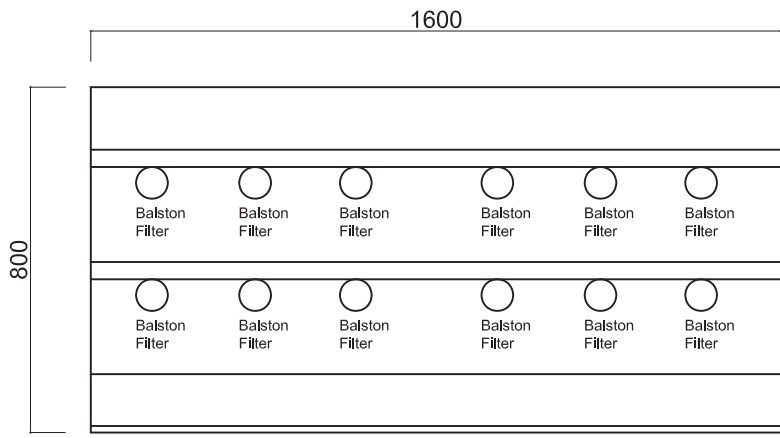
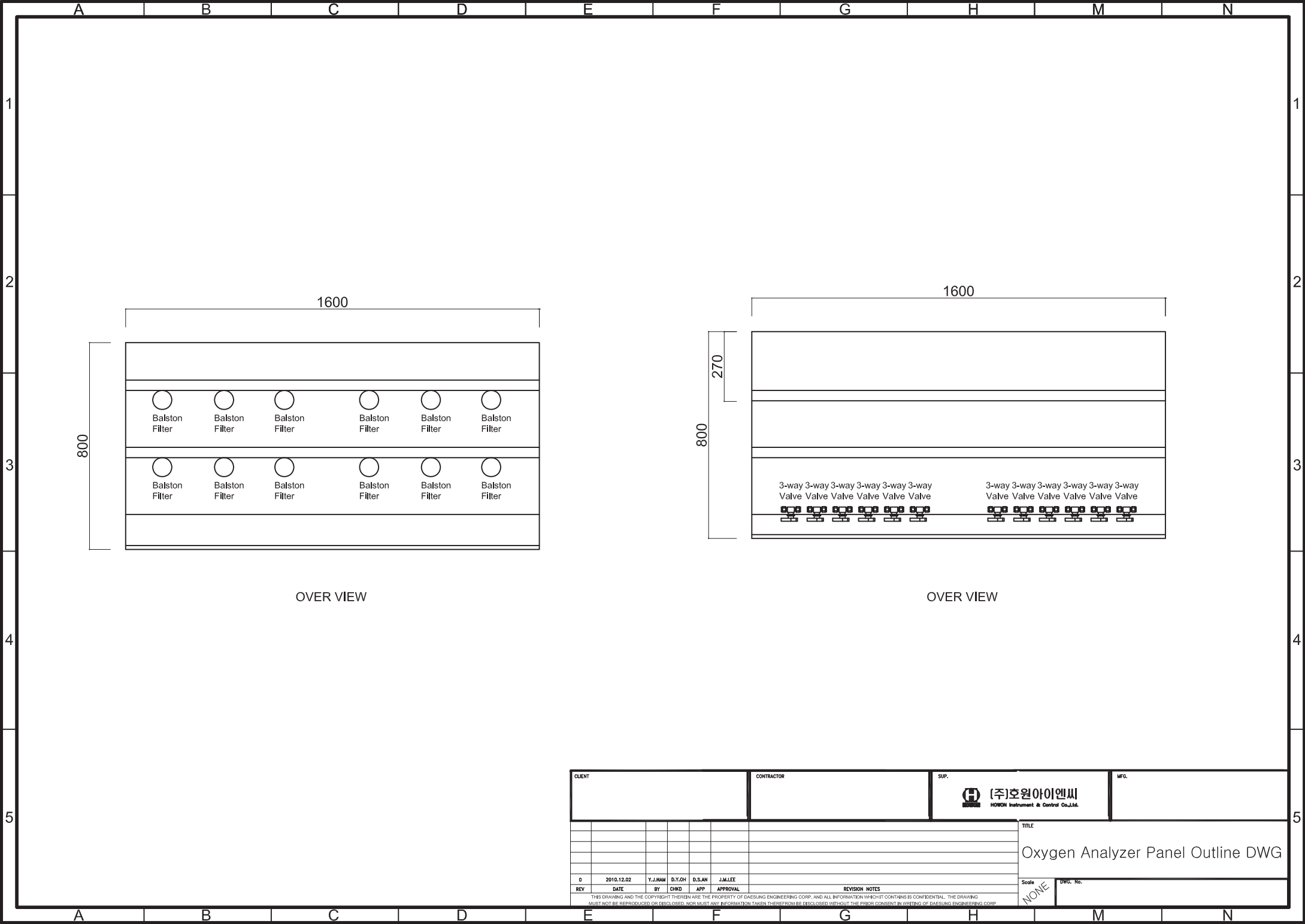


OVER VIEW

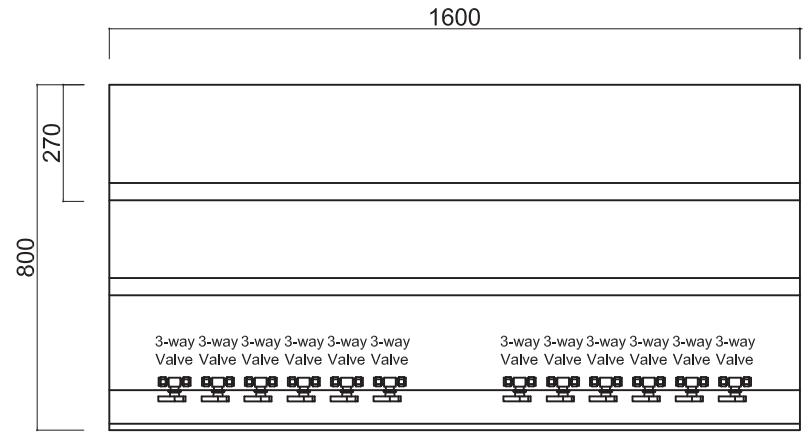


OVER VIEW

CLIENT		CONTRACTOR				SUP.		 (주)호원아이엔씨 HOSON Instrument & Control Co., Ltd.		MFG.	
								TITLE			
								Oxygen Analyzer Panel Outline DWG			
								Scale		DWG. No.	
								NONE			
1	2010.12.02	Y.J.MAM	D.Y.OH	D.S.AN	J.M.LEE						
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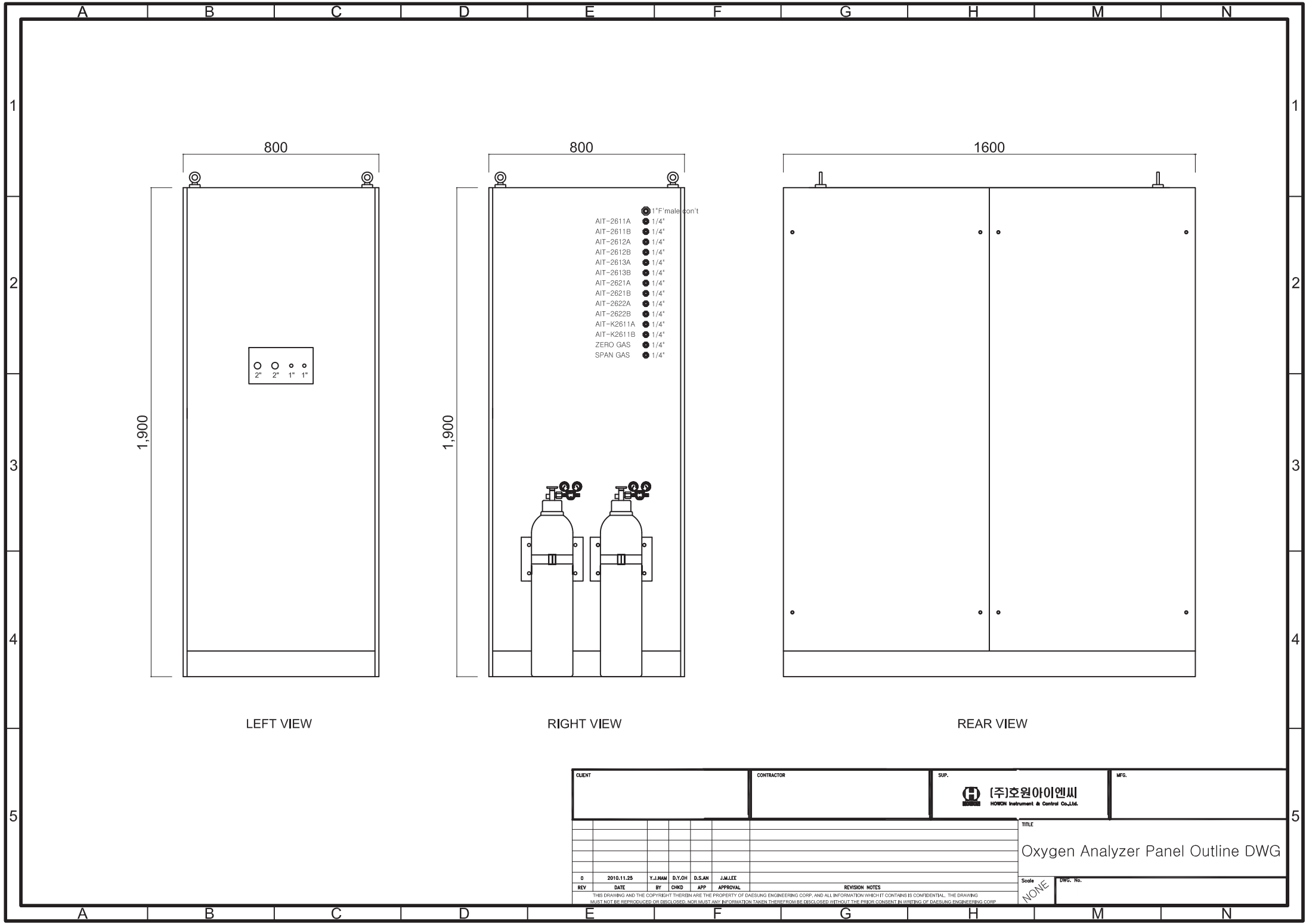



OVER VIEW

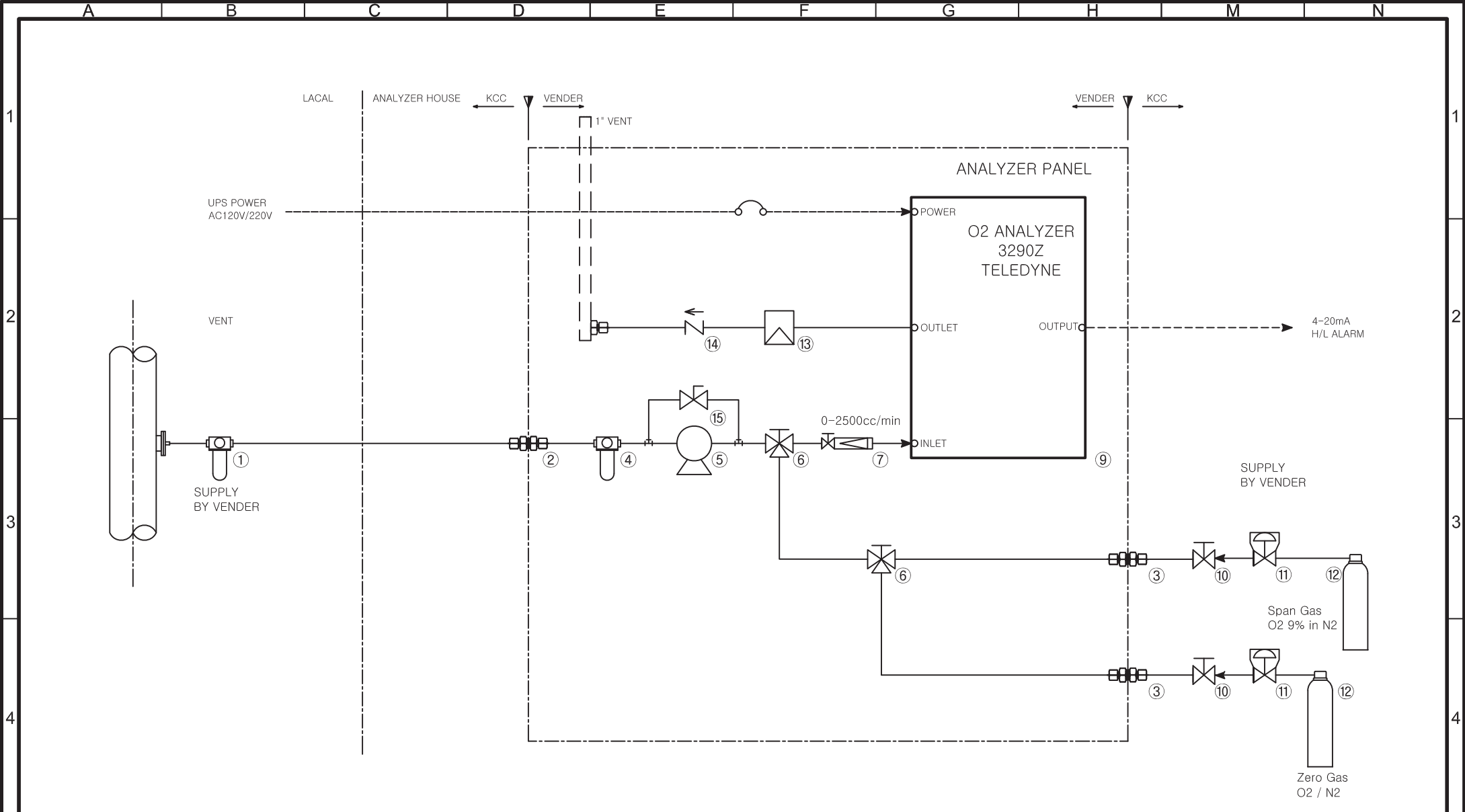


OVER VIEW

CLIENT				CONTRACTOR				SUP.		MFG.	
								TITLE			
								Oxygen Analyzer Panel Outline DWG			
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								NONE			
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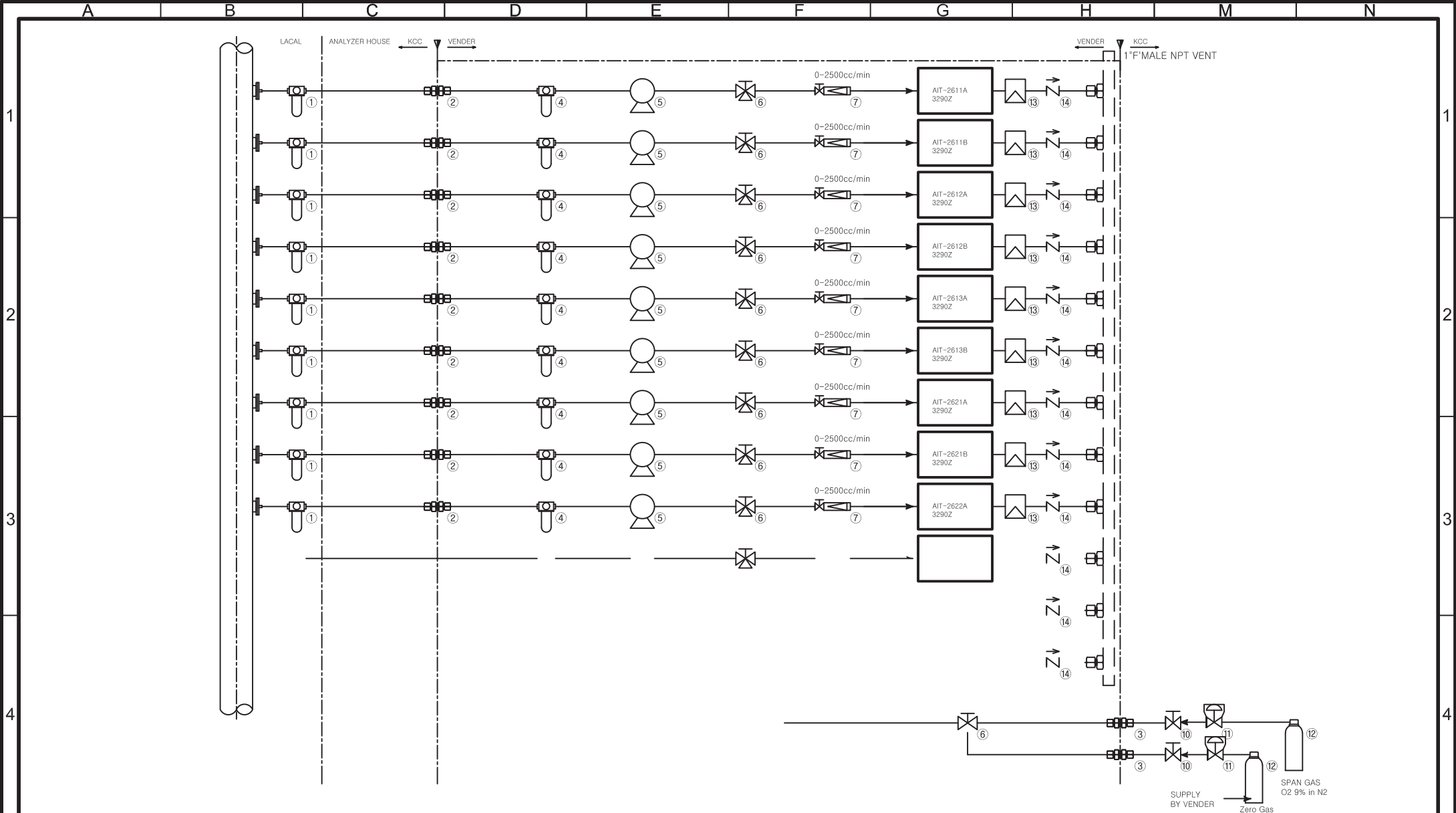


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No	Description	Model	Maker
01	Guard Filter	33G	BALSTON
02	Bulkhead Union 1/4"	SBHRU6-4	TKSCT
03	Bulkhead Union 1/4"	SBHU-4	TKSCT
04	Guard Filter SUS316	95S6	BALSTON
05	Pump 3.5bar(pressure) 609mmhg(vaccum)	MOA-P101-CD	GAST
06	3-way ball valve	SBV120H23-S-4	TKSCT
07	Flowmeter	0-2500cc/min	DWYER
08	Tee Union	SUT-4	TKSCT
09	Analyzer	3290Z	TELEDYNE
10	2-way ball valve Regulator	SBV120H2-S-4	TKSCT
11	Reulator	44 Series	TESCOM
12	Cylinder	Zero Gas O2 / N2	
13	Flow swich	VASP-5	DWYER
14	Check valve		TKSCT
15	Needle valve		TKSCT

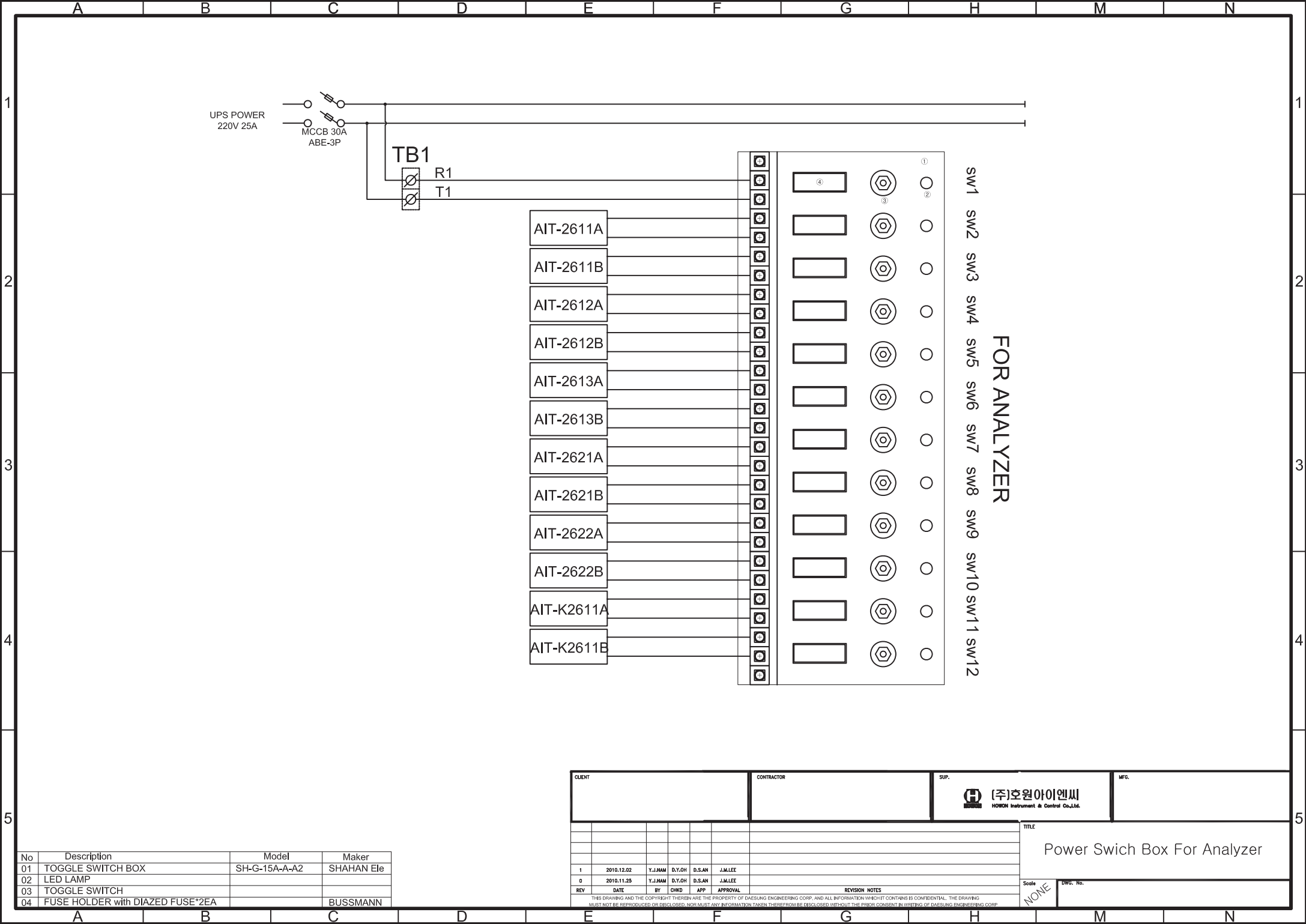
CLIENT		CONTRACTOR		SUP.		MFG.															
						TITLE															
						Oxygen Analyzer System Configuration															
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						NONE															
						DWG. No.															



No	Description	Model	Maker
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13	Flow switch	VASP-5	DWYER
14	Needle valve		TKSCT

CLIENT	CONTRACTOR	SUP.	MFG.														
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			TITLE Oxygen Analyzer System Configuration														
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			DWG. No. NONE														

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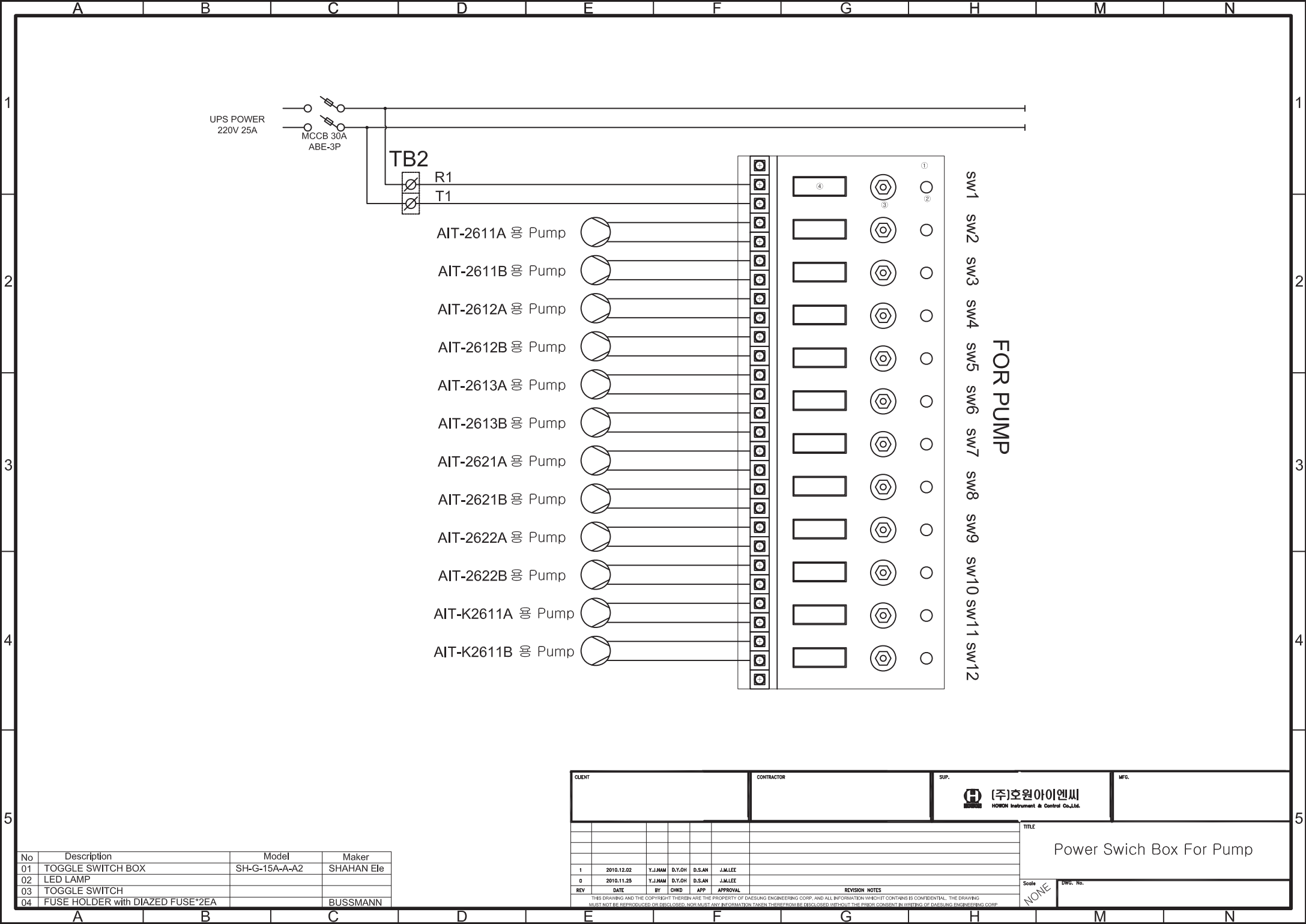
FOR ANALYZER

SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW9 SW10 SW11 SW12

No	Description	Model	Maker
01	TOGGLE SWITCH BOX	SH-G-15A-A-A2	SHAHAN Ele
02	LED LAMP		
03	TOGGLE SWITCH		
04	FUSE HOLDER with DIAZED FUSE*2EA		BUSSMANN

CLIENT		CONTRACTOR		SUP.		 (주)호원아이엔씨 HOSON Instrument & Control Co., Ltd.		MFG.	
TITLE Power Switch Box For Analyzer								Scale	
NONE								DWG. No.	
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0	2010.11.25	Y.J.MAM	D.Y.OH	D.S.AN	J.M.LEE	



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2

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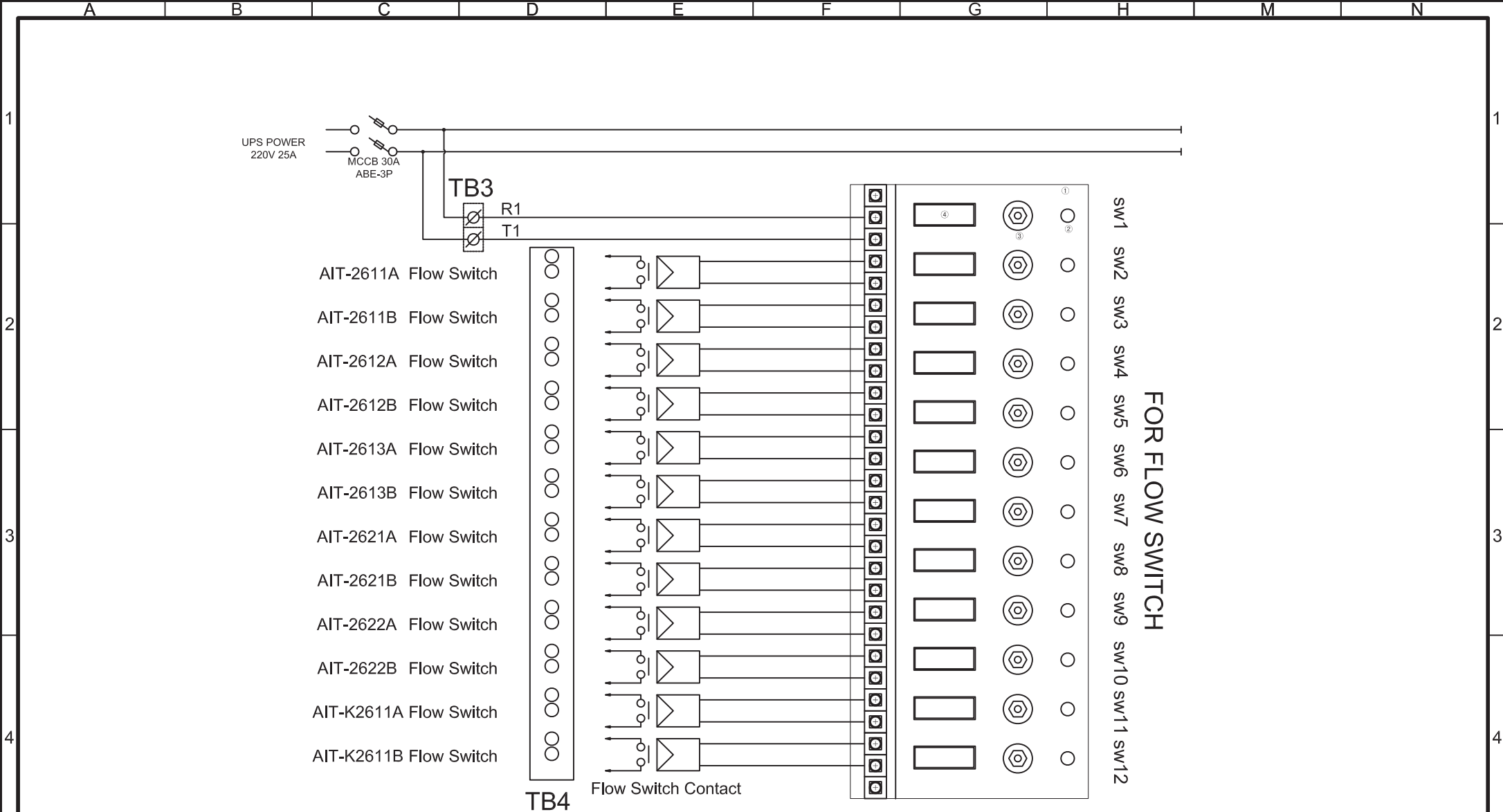
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No	Description	Model	Maker
01	TOGGLE SWITCH BOX	SH-G-15A-A-A2	SHAHAN Ele
02	LED LAMP		
03	TOGGLE SWITCH		
04	FUSE HOLDER with DIAZED FUSE*2EA		BUSSMANN

CLIENT		CONTRACTOR		SUP.		 (주)호원아이앤씨 HOSON Instrument & Control Co., Ltd.		MFG.	
TITLE Power Switch Box For Pump								Scale	
NONE								DWG. No.	
1 2010.12.02 Y.J.MAM D.Y.OH D.S.AN J.M.LEE		0 2010.11.25 Y.J.MAM D.Y.OH D.S.AN J.M.LEE		REVISION NOTES		THIS DRAWING AND THE COPYRIGHT THEREIN ARE THE PROPERTY OF DAESUNG ENGINEERING CORP. AND ALL INFORMATION WHICH CONTAINS IS CONFIDENTIAL. THE DRAWING MUST NOT BE REPRODUCED OR DISCLOSED, NOR MUST ANY INFORMATION TAKEN THEREFROM BE DISCLOSED WITHOUT THE PRIOR CONSENT IN WRITING OF DAESUNG ENGINEERING CORP.			

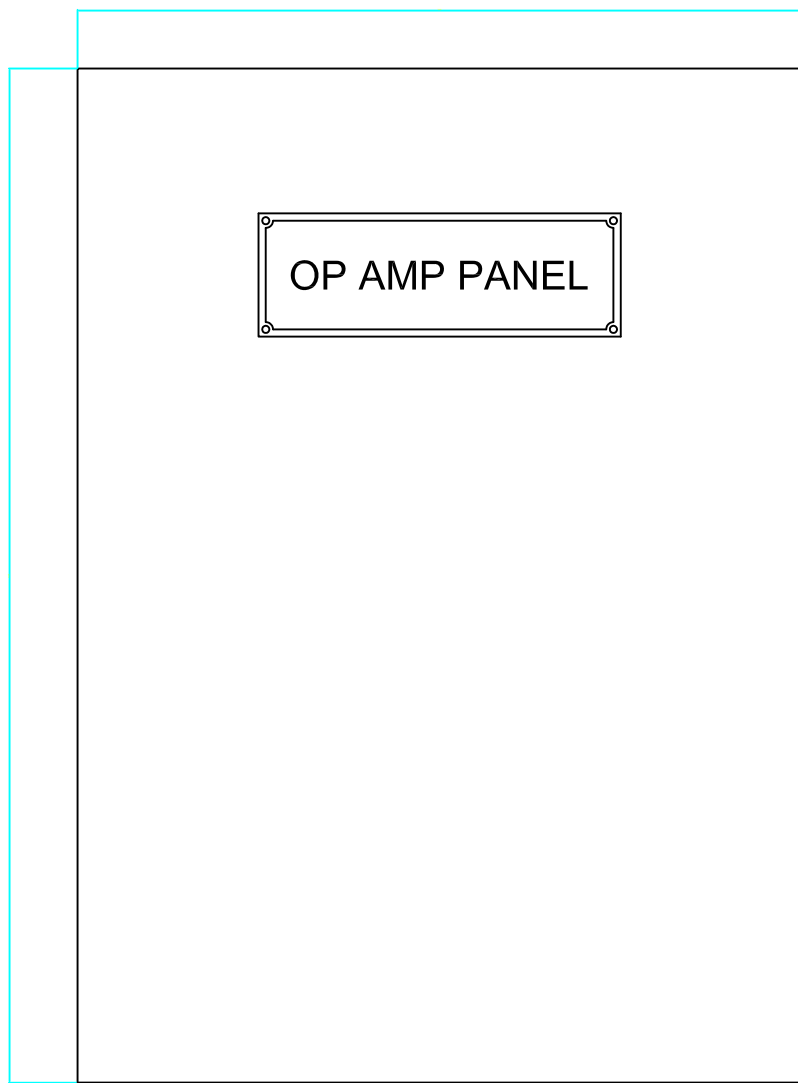
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A B C D E F G H M N

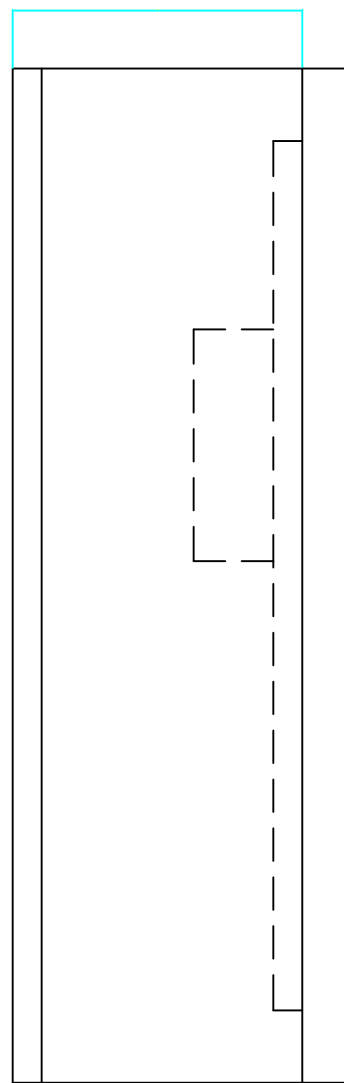


No	Description	Model	Maker
01	TOGGLE SWITCH BOX	SH-G-15A-A-A2	SHAHAN Ele
02	LED LAMP		
03	TOGGLE SWITCH		
04	FUSE HOLDER with DIAZED FUSE*2EA		BUSSMANN

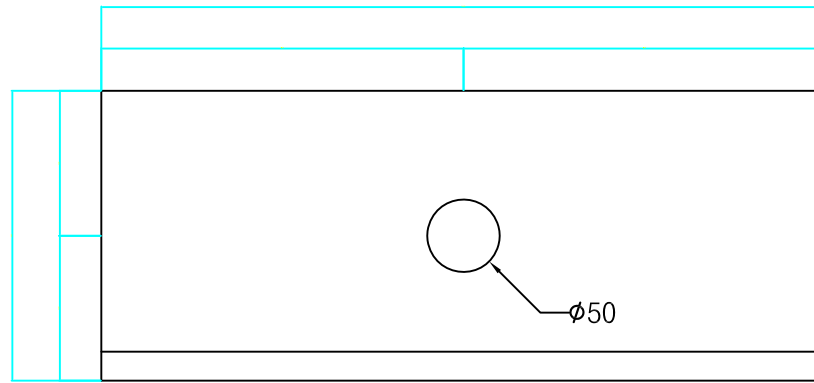
CLIENT		CONTRACTOR		SUP.		 (주)호원아이엔씨 HOSON Instrument & Control Co., Ltd.		MFG.	
TITLE								Power Switch Box For Flow switch	
1 2010.12.02 Y.J.MAM D.Y.OH D.S.AN J.M.LEE 0 2010.11.25 Y.J.MAM D.Y.OH D.S.AN J.M.LEE								Scale	
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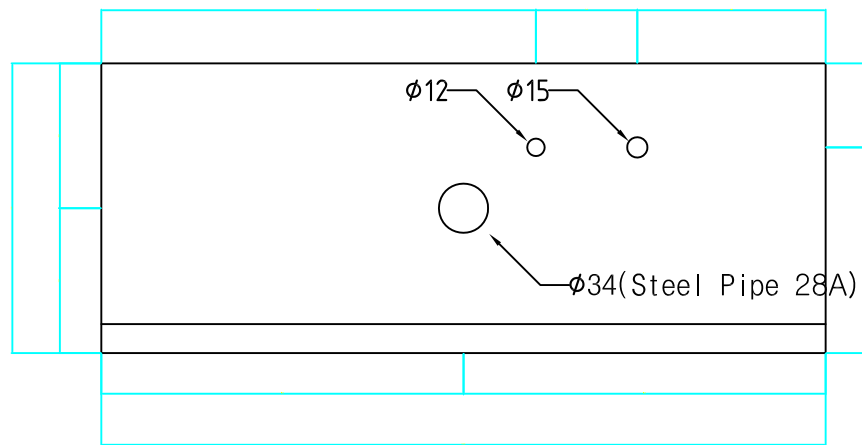
FRONT VIEW



RIGHT VIEW




TOP VIEW



BOTTOM VIEW

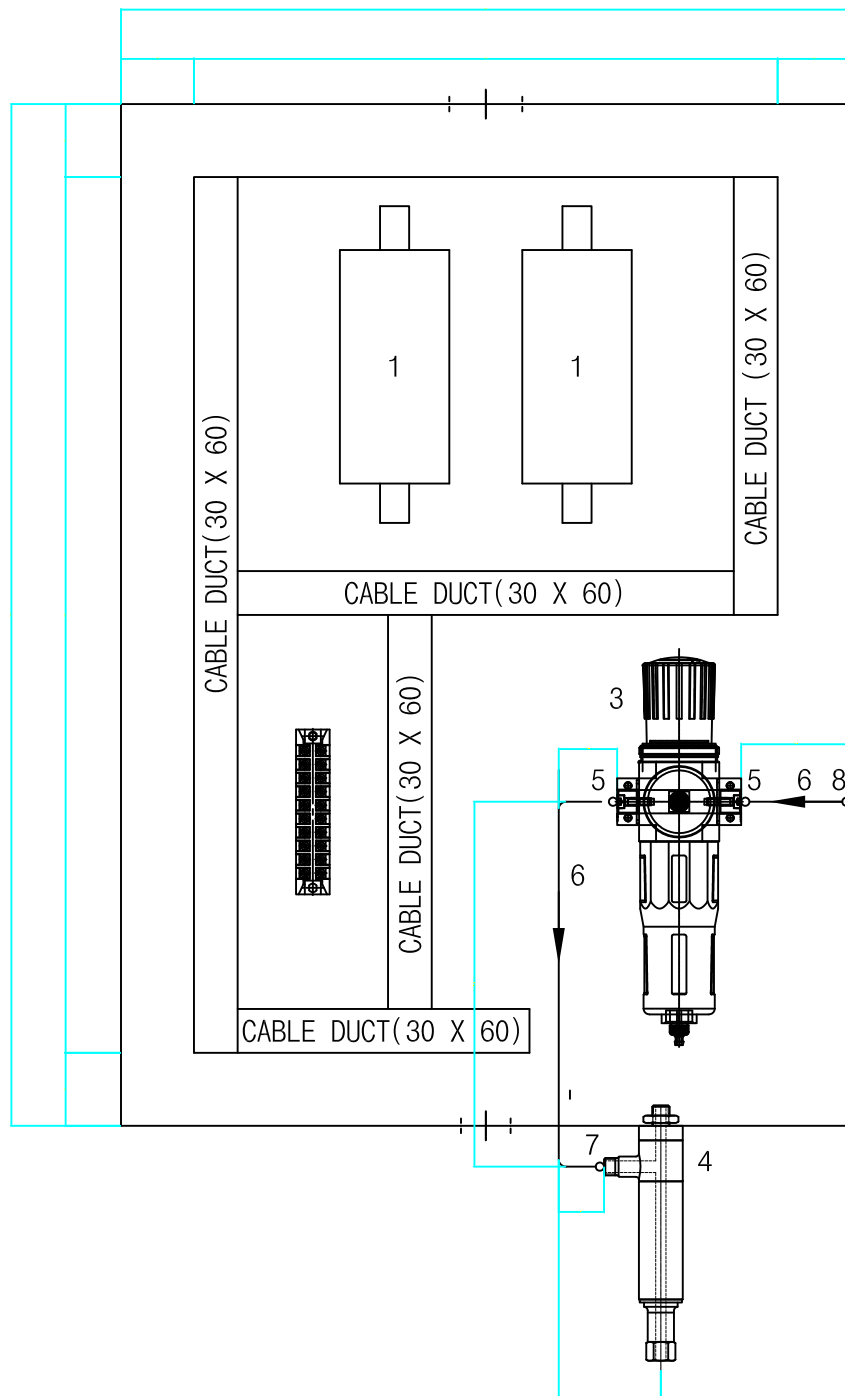
GENERAL SPECIFICATION

1. MATERIAL : STEEL
2. THICKNESS : 2.3 t
3. COLOR : RAL 7032 EMBOSSING
4. DIMENSION : 500(W)X 200(D) X 700(H)
5. -
6. PROTECTION RATING : IP40

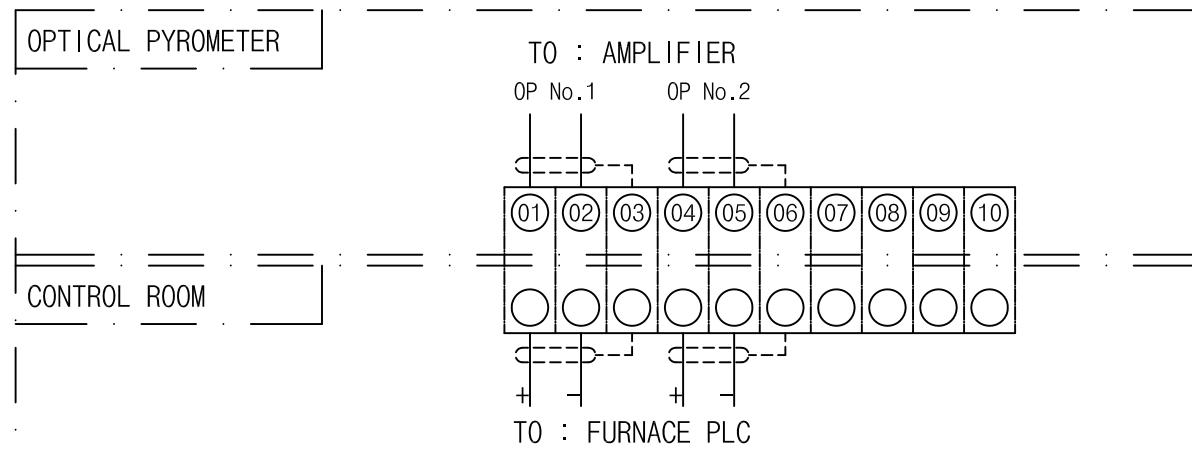
△	Jul.30.14	S.Y.SUN	JMIN.LEE	J.M.LEE	ISSUED FOR APPROVAL
REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
CLIENT					
CONTRACTOR					
VENDER					
 [주]호원아이앤씨 HOWON Instrument & Control Co.,Ltd.					
PROJECT					
KCC E&C JOB NO.	D000080		TITLE		
DRAWN	S.Y.SUN		OP AMP LOCAL PANEL FURNACE AREA		
CHECKED	JMIN.LEE				
APPROVED	Y.B.YOO				
SCALE	DATE DRAWN	DWG NO. :		REV.	
N/A	2014.10.10			△	
KCC E&C CLASSIFICATION NO.	CLIENT DWG NO. :		REV.		
-			△		

PART LIST

NO	ITEM	SPECIFICATION	UNIT	Q'TY	MAKER
1	OP AMP	FG	SET	2	LAND
2	TERMINAL BLOCK	KH-6010-10P	EA	1	KOINO
3	AIR SET	LFR/LFRS-3/8-D-MINI (A)	EA	1	FESTO
4	AIR COOLER	SAC-60	EA	1	SEYOUNG
5	MALE CONNECTOR	3/8"G	EA	2	HYLOK
6	SS TUBE	3/8"	M	0.3	HYLOK
7	FEMALE CONNECTOR	1/4 " PT	EA	1	HYLOK
8	SS BULKHEAD UNION	3/8" T	EA	1	HYLOK



INNER VIEW



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
△	Jul.30.'14	S.Y.SUN	JMIN.LEE	J.M.LEE	ISSUED FOR APPROVAL
CLIENT					
CONTRACTOR					
VENDOR					
PROJECT					
RCC E&C JOB NO.	D000080	TITLE			
DRAWN	S.Y.SUN	OP AMP LOCAL PANEL			
CHECKED	JMIN.LEE	FURNACE AREA			
APPROVED	Y.B.YOO	REV.			
SCALE	DATE DRAWN	DWG NO. :	0		
N/A	2014.10.10	REV.			
RCC E&C CLASSIFICATION NO.	-	CLIENT DWG NO. :	△		
A3 (420 x 297 mm)					

PART LIST					
NO	ITEM	SPECIFICATION	UNIT	Q'TY	MAKER
1	AIR FILTER REGULATOR	LFR-3/8-D-MINI	SET	2	w/Bracket
2	FLOW INDICATING SWITCH	ALS-W-2-1-P	EA	2	ATOZCELL
3	MALE ELBOW	SUS3/8"PF(M)*3/8"(T)	EA	2	
4	MALE ELBOW	SUS1/2"PT(M)*3/8"(T)	EA	2	
5	TUBE	SUS304 3/8"*0.035"	CM	50	
6	U BOLT	SUS304 300D	EA	4	
7	HEX BUSHING	SUS1/2"PT(M)*3/8"PT(F)	EA	2	
8	MALE/FEMALE ELBOW	SUS3/8"PF(M)*3/8"(F)	EA	2	
9					
10					

* TAG NO. : TT8301, TT8401

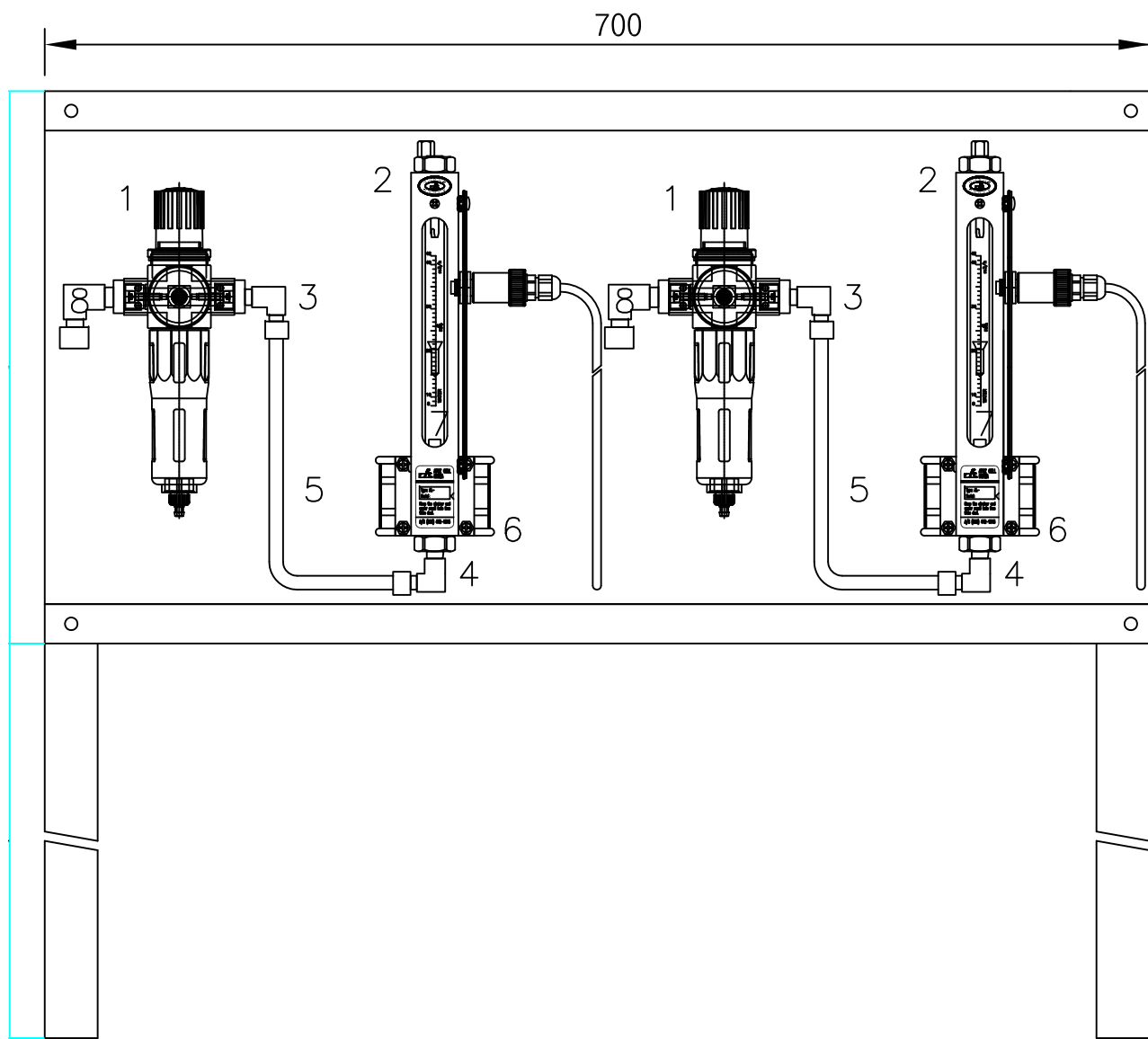
* REMARKS

1. INSTRUMENT RACK : 2.3 t, Hole $\phi 10 \times 4$

2. COLOR : SILVER

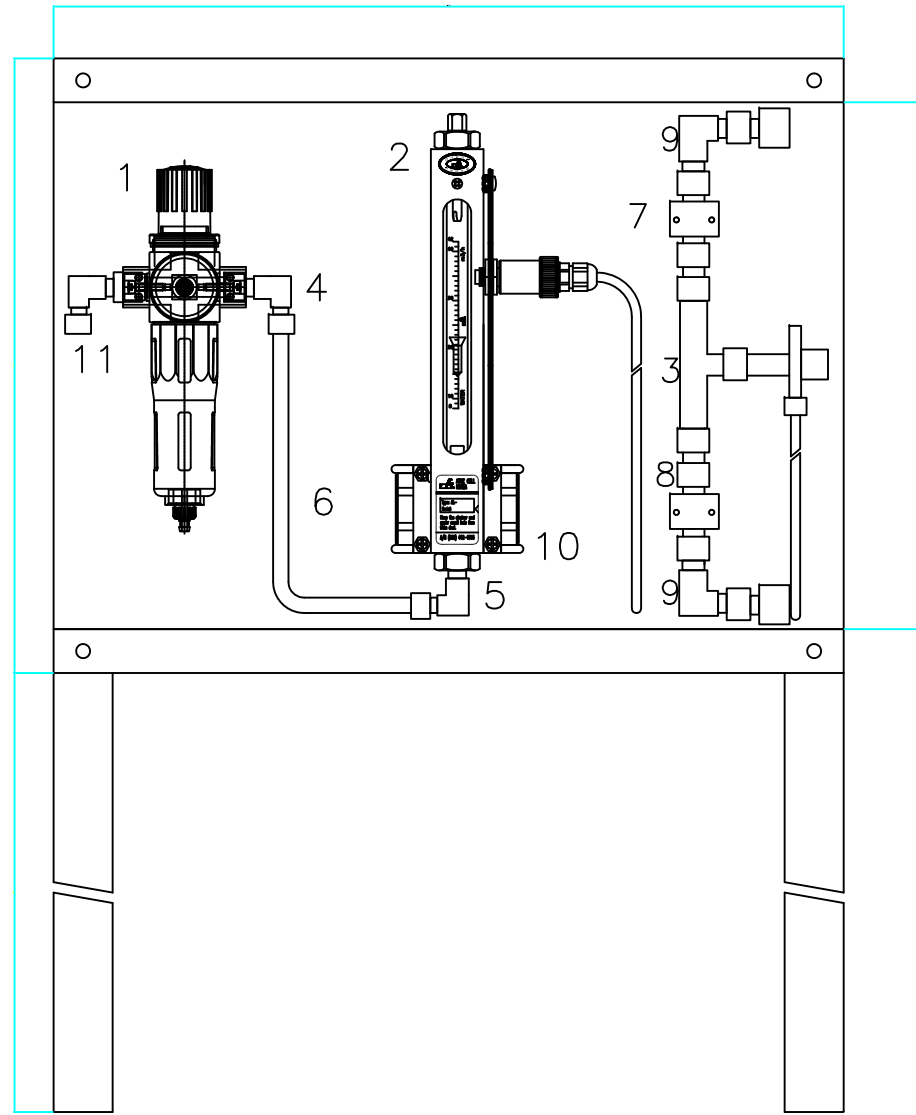
3. MATERIAL : STEEL

4. Q'TY : 1 SET



△							CLIENT
△							CONTRACTOR
△							PROJECT
△	'14. 12. 08.	FOR APPROVAL	S.Y.SUN	J.MIN.LEE	Y.B.YOO	J.M.LEE	
NO.	DATE	REVISIONS	PREPARER	CHECKER	REVIEWER	APPROVER	

TITLE	AIR & WATER SUPPLY PLATE OPTICAL PYROMETER1	SCALE	1/1
DWG No.		DATE	'14. 12. 08
SHEET No.		CONT.No.	
 (주)호원아이엔씨 HOWON Instrument & Control Co.,Ltd.			



PART LIST

NO	ITEM	SPECIFICATION	UNIT	Q'TY	MAKER
1	AIR FILTER REGULATOR	LFR-3/8-D-MINI	SET	12	FESTO
2	FLOW INDICATING SWITCH	ALS-W-2-1-P	EA	12	ATOZCELL
3	FLOW SWITCH	UR1-010GM	EA	12	HORNSBE.
4	MALE ELBOW	SUS 3/8"PT * 3/8"T	EA	12	
5	MALE ELBOW	SUS 1/2"PT * 3/8"T	EA	12	
6	TUBE	SUS 304 3/8" 0.035"	M	3	
7	TUBE CLAMP	SUS 304 3/8"	EA	24	
8	TUBE UNION	3/8"OD	EA	24	
9	MALE ELBOW w ADAPTER	3/8"PF*3/8"PT*1/2"PT(F)	EA	24	
10	U BOLT	STEEL	EA	24	
11	MALE/FEMALE ELBOW	3/8"PF * 3/8"PT	EA	12	

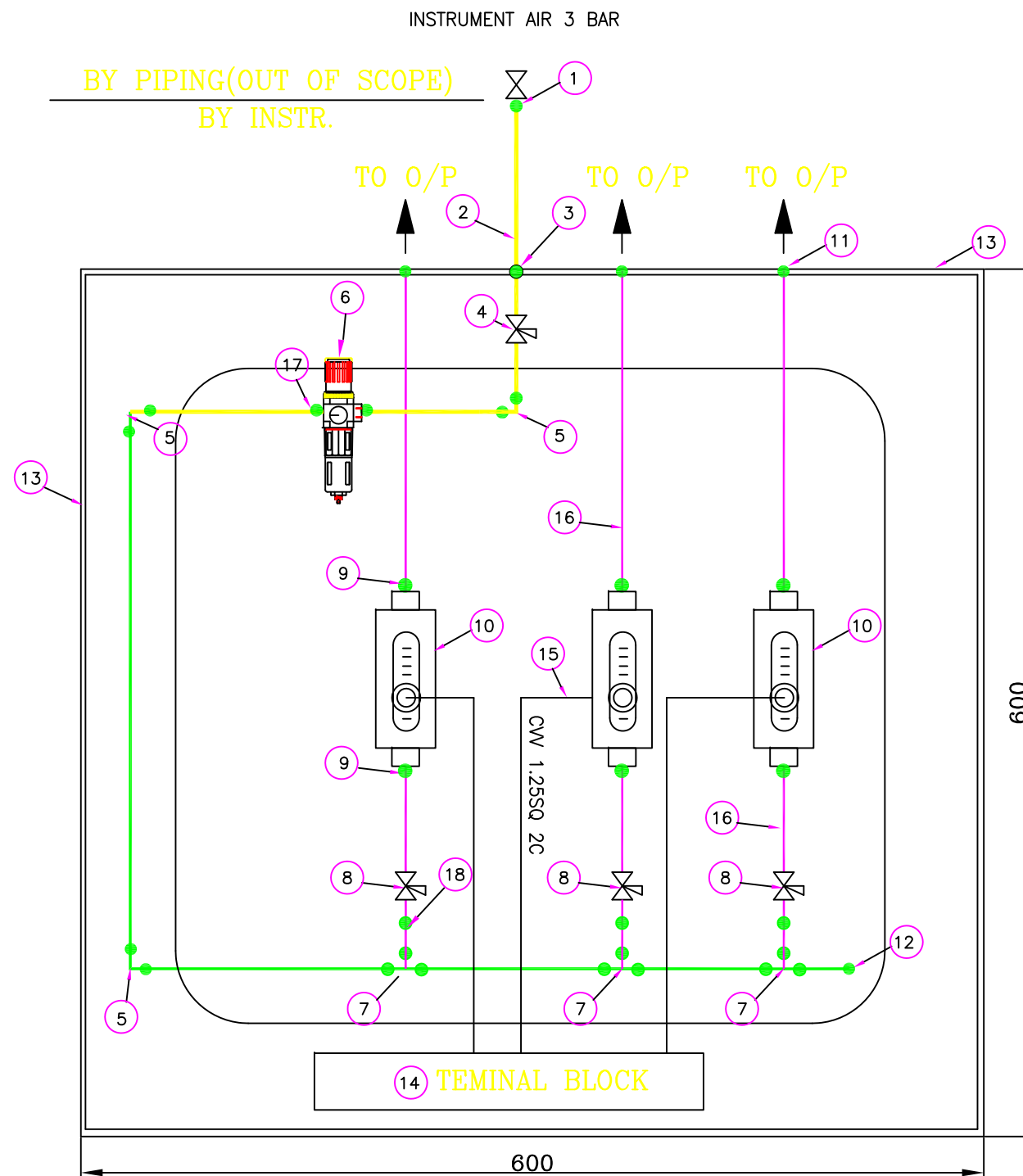
* TAG NO. : TT9001, TT9002, TT9003, TT9004, TT9005, TT9006, TT9007, TT9008, TT9009, TT9010, TT9011, TT9012

* REMARKS

- 1. INSTRUMENT RACK : 2.3 t, Hole $\phi 10 \times 4$
- 2. COLOR : SILVER
- 3. MATERIAL : STEEL
- 4. Q'TY : 12 SET

△							CLIENT
△							CONTRACTOR
△							PROJECT
△	'14. 12. 08.	FOR APPROVAL	S.Y.SUN	J.MIN.LEE	Y.B.YOO	J.M.LEE	
NO.	DATE	REVISIONS	PREPARER	CHECKER	REVIEWER	APPROVER	

TITLE		SCALE	
AIR & WATER SUPPLY PLATE		1/1	
OPTICAL PYROMETER2		DATE '14. 12. 08	
DWG No.	SHEET No.	CONT.No.	
 (주)호원아이엔씨 HOWON Instrument & Control Co.,Ltd.			

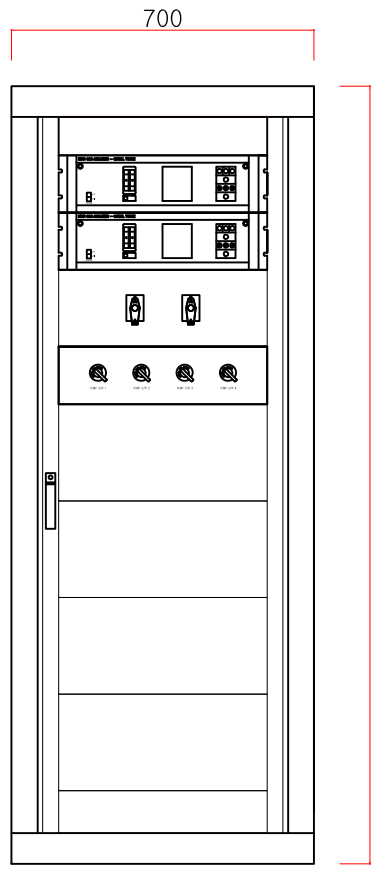


INNER VIEW

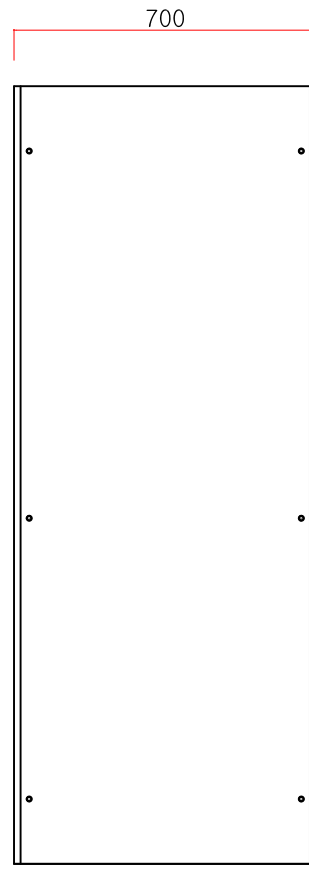
BILL OF MATERIAL			
NO.	Q'TY	DESCRIPTION	MAKER
1	1EA	SUS 316 MALE CONNECTOR 3/4"NPT * 3/4"T	HYLOK
2	2M	SUS 316 3/4" TUBE	HYLOK
3	1EA	SUS 316 STRAIGHT BULKHEAD UNION 3/4"T * 3/4"T	HYLOK
4	1EA	SUS 316 NEEDLE V/V 3/4"T	HYLOK
5	3EA	SUS 316 UNION ELBOW 3/4"T * 3/4"T	HYLOK
6	1EA	FILTER WITH REGULATER 10BAR	SMC
7	3EA	SUS 316 UNION TEE 3/4"T	HYLOK
8	3EA	SUS 316 NEEDLE VALVE 3/8"T	HYLOK
9	6EA	SUS 316 MALE CONNECTOR 3/8"PT * 3/8"T	HYLOK
10	3EA	FLOW INDICATING SWITCH 3/8"(1.5~15NM3/H) 24VDC	ATOZECELL
11	3EA	SUS 316 STRAIGHT BULKHEAD UNION 3/8"T * 3/8"T	HYLOK
12	1EA	SUS 316 CAP 3/4"	HYLOK
13	1EA	SUS 304 PANEL 600W 600H 300D (WITH WINDOW)	DKM
14	10EA	TERMINAL BLOCK,15A,RAIL ATTACH(INCLUDE STOPPER, SEPARATOR)	SAMHWA
15	2M	CVW 1.25SQ 2C	TAIHAN
16	3M	SUS 316 TUBE 3/8"	HYLOK
17	2EA	SUS 316 MALE CONNECTOR 3/4"G * 3/4"T	HYLOK
18	3EA	SUS 316 REDUCING UNION TEE 3/4"T*3/8"T	HYLOK

Q'TY : 4 SETS

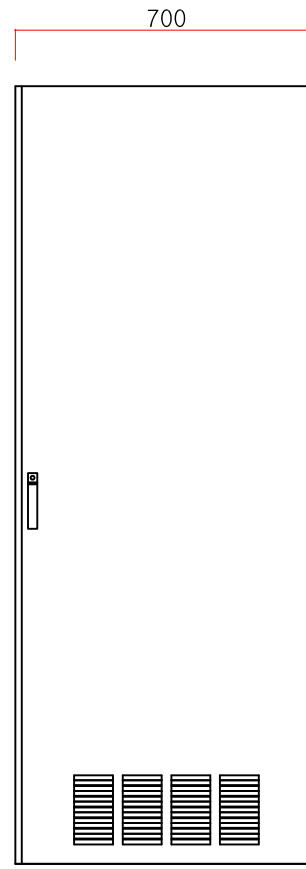
REV.	DATE	DRN	CHD	APPD	DESCRIPTION
CLIENT					
CONTRACTOR					
PROJECT					
JOB NO.	TITLE				
	AIR PURGE PANEL FOR OPTICAL PYROMETER				
DRAWN					
CHECKED					
APPROVED					
SCALE	DATE DRAWN	DWG NO. :			
None					
CLIENT DWG NO. :					



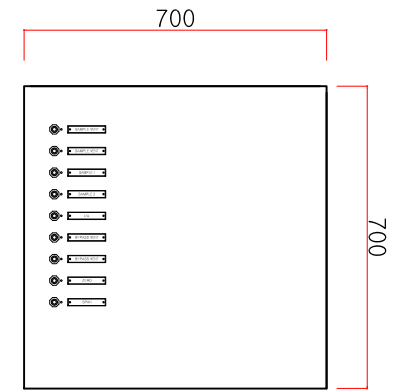
FRONT VIEW



SIDE VIEW




REAR VIEW



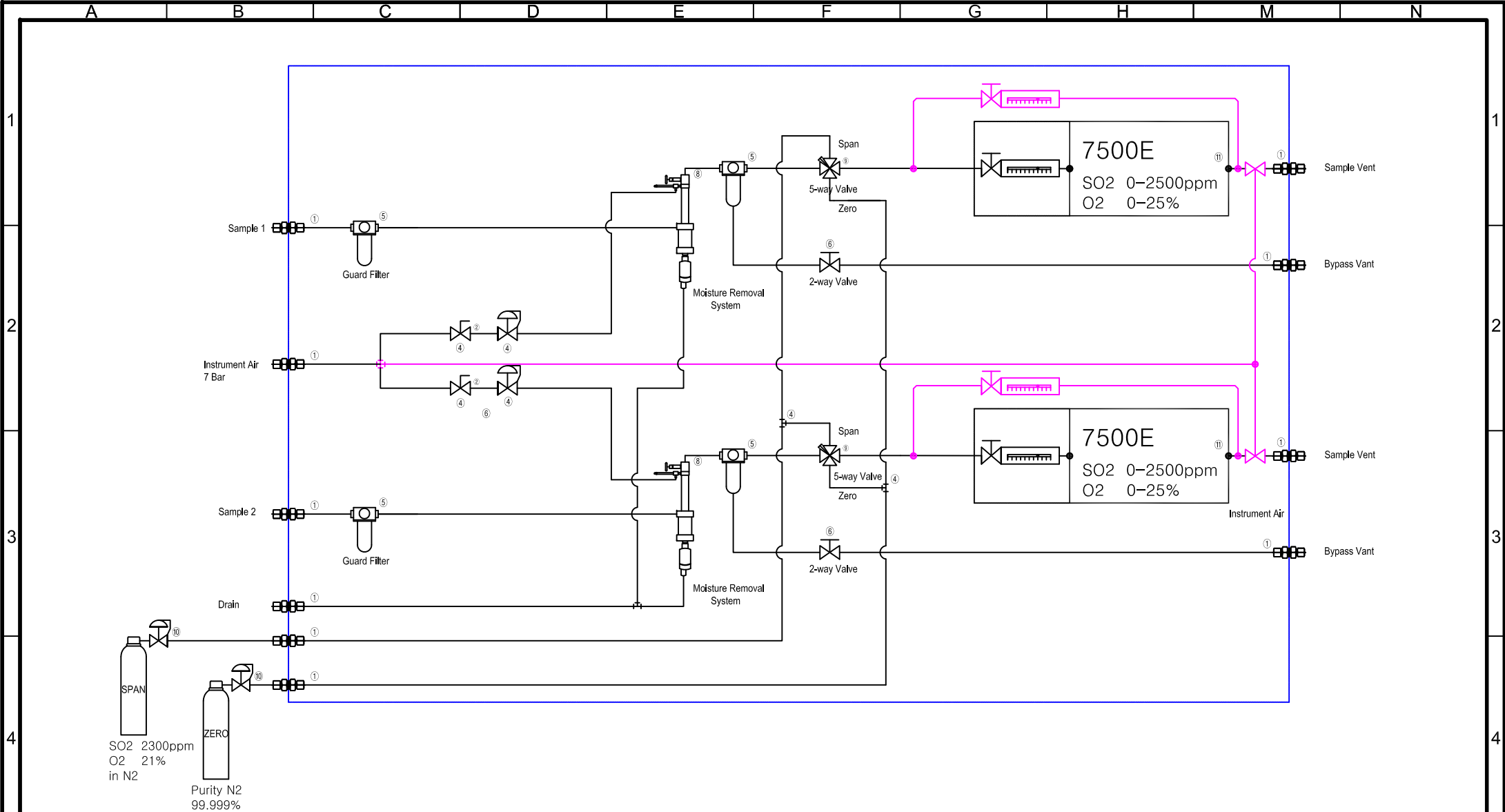
TOP VIEW

- * NOTE
- SIZE : 700 W x 1800 H x 700 D
 - COLOR : RAL7032
 - TYPE : Steel Fabricated, Self standing
Rack Mount Type
 - Material : Steel 2.3T

 (주) 호원아이엔씨
HOWON Instrument & control Co., Ltd.


PROJECT NAME	
TITLE Analyzer Rack Assembly Drawing	
Scale NONE	DWG. No.

REV	DATE	BY	CHKD	APPD	REVISION NOTES



No	DESCRIPTION	MODEL	MAKER
01	Bulkhead union 1/4" LOK	CBU-4	HY-LOK
02	2-way Ball Valve 1/4" LOK	B1VH-4T	HY-LOK
03	Air Regulator	AR-2000	SMC
04	Union Tee 1/4"	CTA-4	HY-LOK
05	Guard Filter	95S6	HOWON
06	Needle Valve 1/4"	NV2H-4T	HY-LOK
07	Pump	MOA-101PC	GAST
08	Moisture Removal System		HOWON
09	5-way Valve 1/4" LOK	SS-43ZF2	SWAGelok
10	Cylinder Regulator	44 Series	TESCOM
11	SO2 Analyzer	7800E	TELEDYNE
12	3-way Valve 1/4" LOK	B1V3H-4T	HY-LOK
13			

— MODIFICATION LINE


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PROJECT NAME

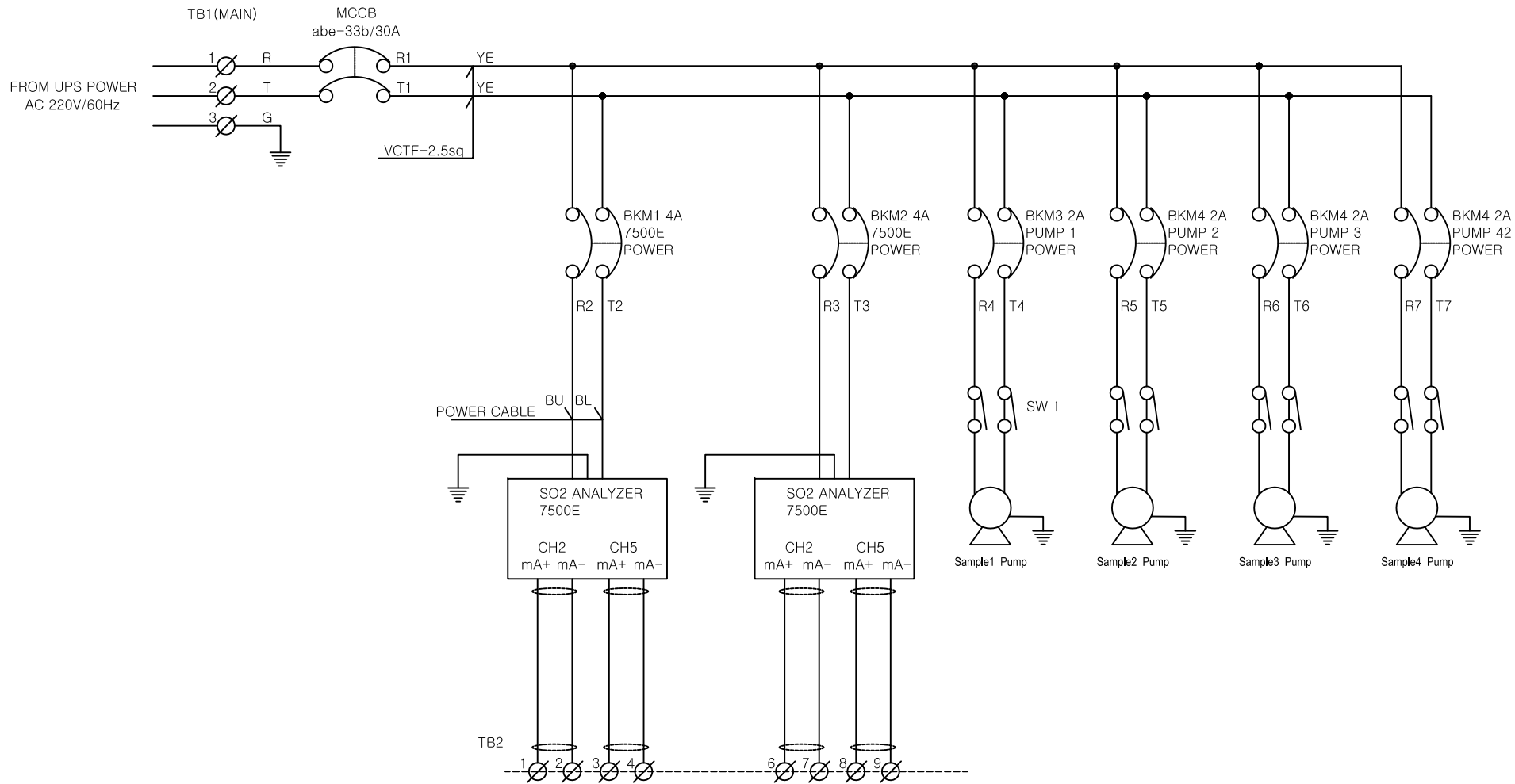
TITLE **Control Schematic Tubing Diagram**

Scale **NONE** DWG. No.

REV	DATE	BY	CHKD	APPD	REVISION NOTES

A B C D E F G H M N

1



2


3

4

5

A B C D E F G H M N

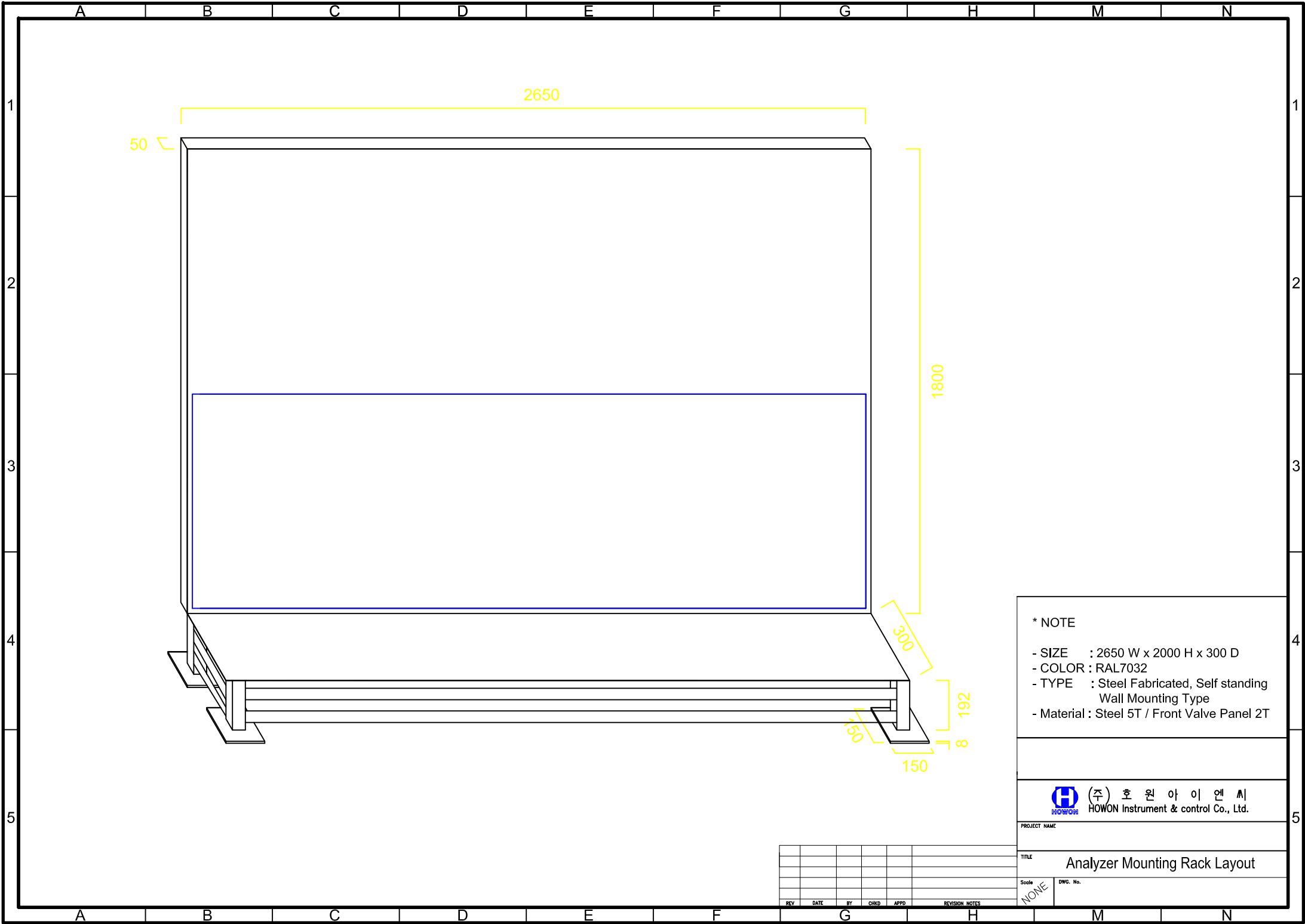
REV	DATE	BY	CHKD	APPD	REVISION NOTES


 (주) 호원아이엔씨
 HOWON Instrument & control Co., Ltd.

PROJECT NAME


TITLE
Single Line Diagram

Scale: NONE DWG. No.



* NOTE

- SIZE : 2650 W x 2000 H x 300 D
- COLOR : RAL7032
- TYPE : Steel Fabricated, Self standing
Wall Mounting Type
- Material : Steel 5T / Front Valve Panel 2T

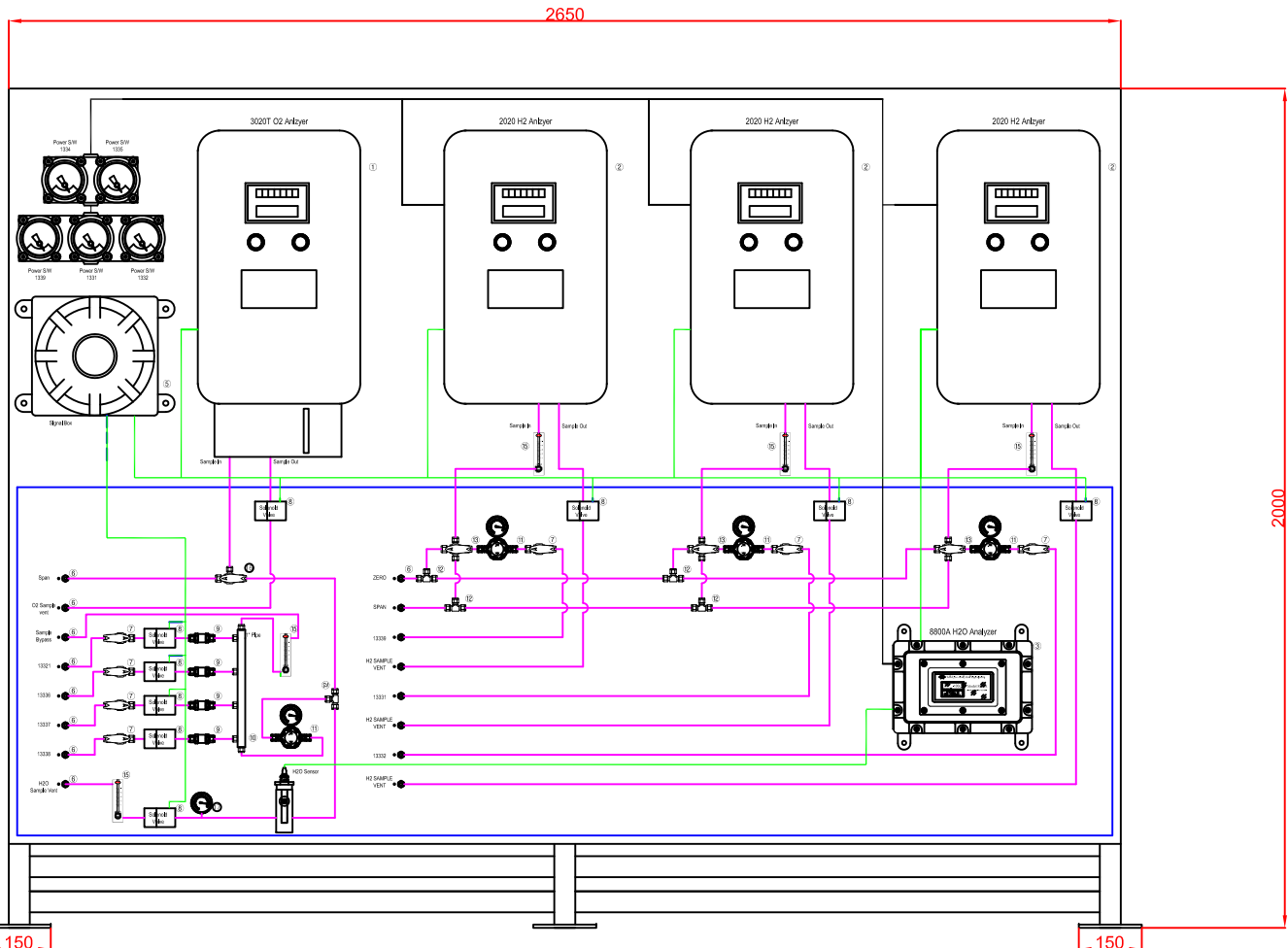
 (주) 호원아이엔씨
HOWON Instrument & control Co., Ltd.

PROJECT NAME

TITLE **Analyzer Mounting Rack Layout**

Scale **NONE** DWG. No.

REV	DATE	BY	CHKD	APPD	REVISION NOTES




Front View

- * NOTE
- SIZE : 2650 W x 2000 H x 300 D
 - COLOR : RAL7032
 - TYPE : Steel Fabricated, Self standing
Wall Mounting Type
 - Material : Steel 5T / Front Valve Panel 2T

No	DESCRIPTION	MODEL	MAKER
01	O2 Analyzer	3020T	TELEDYNE
02	H2 Analyzer	2020	TELEDYNE
03	H2O Analyzer	8800A	TELEDYNE
04	Power Switch	FTSC	ILSHIN
05	Signal Box	TB-55	ILSHIN
06	Bulkhead union 1/4" LOK	CBU-4	HYLOK
07	2-way Ball Valve 1/4" LOK	B1VH-4T	HYLOK
08	2-way Solenoid Valve 1/4" DC24V	121VVG2NT00	PARKER
09	Check Valve 1/4" LOK 0.33P	CV1-H-4T 1/3	HYLOK
10	1" Pipe		HOWON
11	Line Regulator	44-2262-242-010	TESCOM
12	Union Tee 1/4"	CTA-4	HYLOK
13	5-way Valve 1/6" LOK	SS-43ZF2	SWAGelok
14	H2O Sensor		TELEDYNE
15	Flowmeter 0-1L/min	RMA13	DWYER
16	3-way Valve	B1V3H-4T	HYLOK
17	Gauge	TS62837-0060N	TESCOM

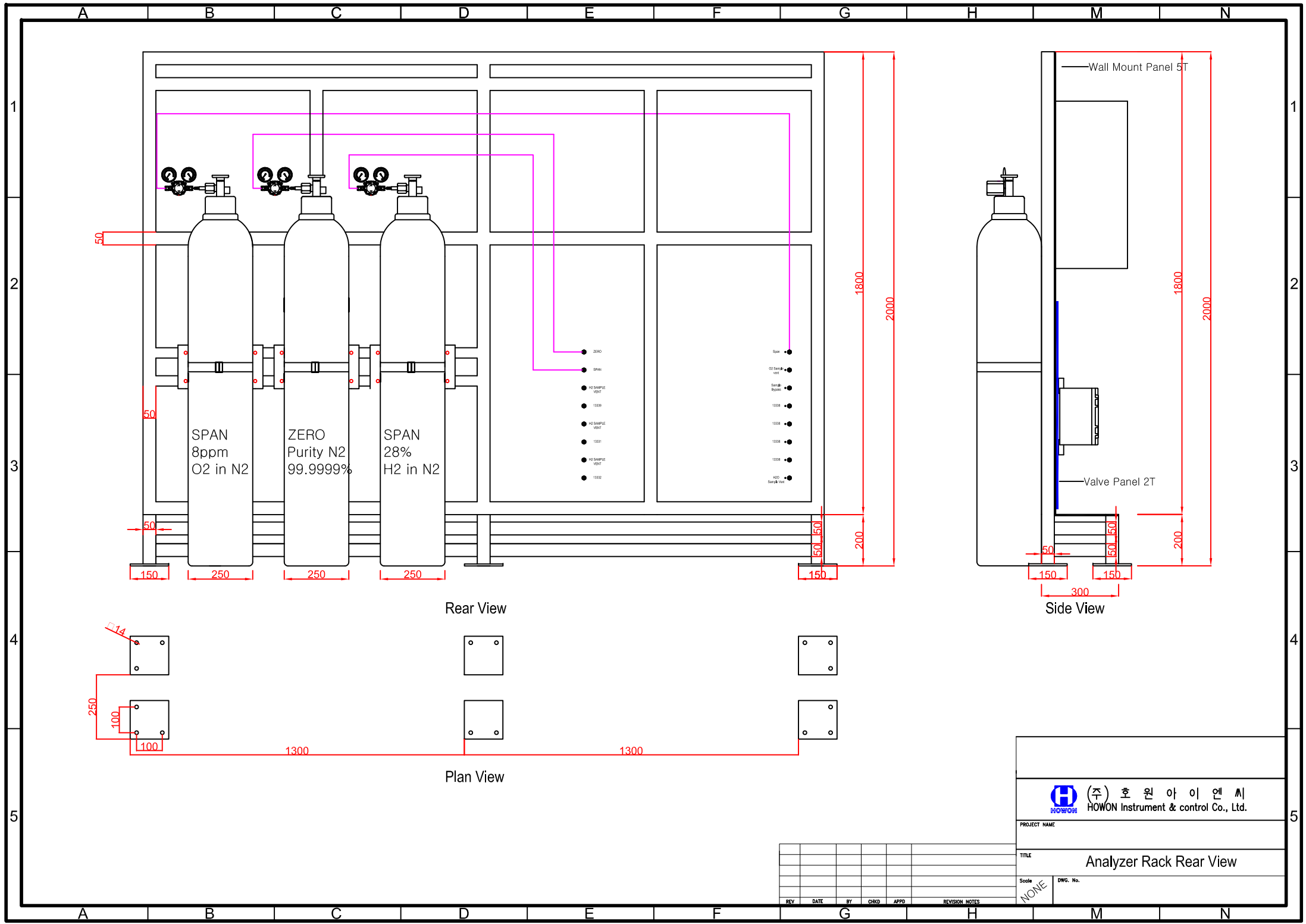
REV	DATE	BY	CHKD	APPD	REVISION NOTES



 (주) 호원아이엔씨
 HOWON Instrument & control Co., Ltd.

PROJECT NAME

TITLE: Analyzer Rack Front View

Scale: NONE DWG. No.



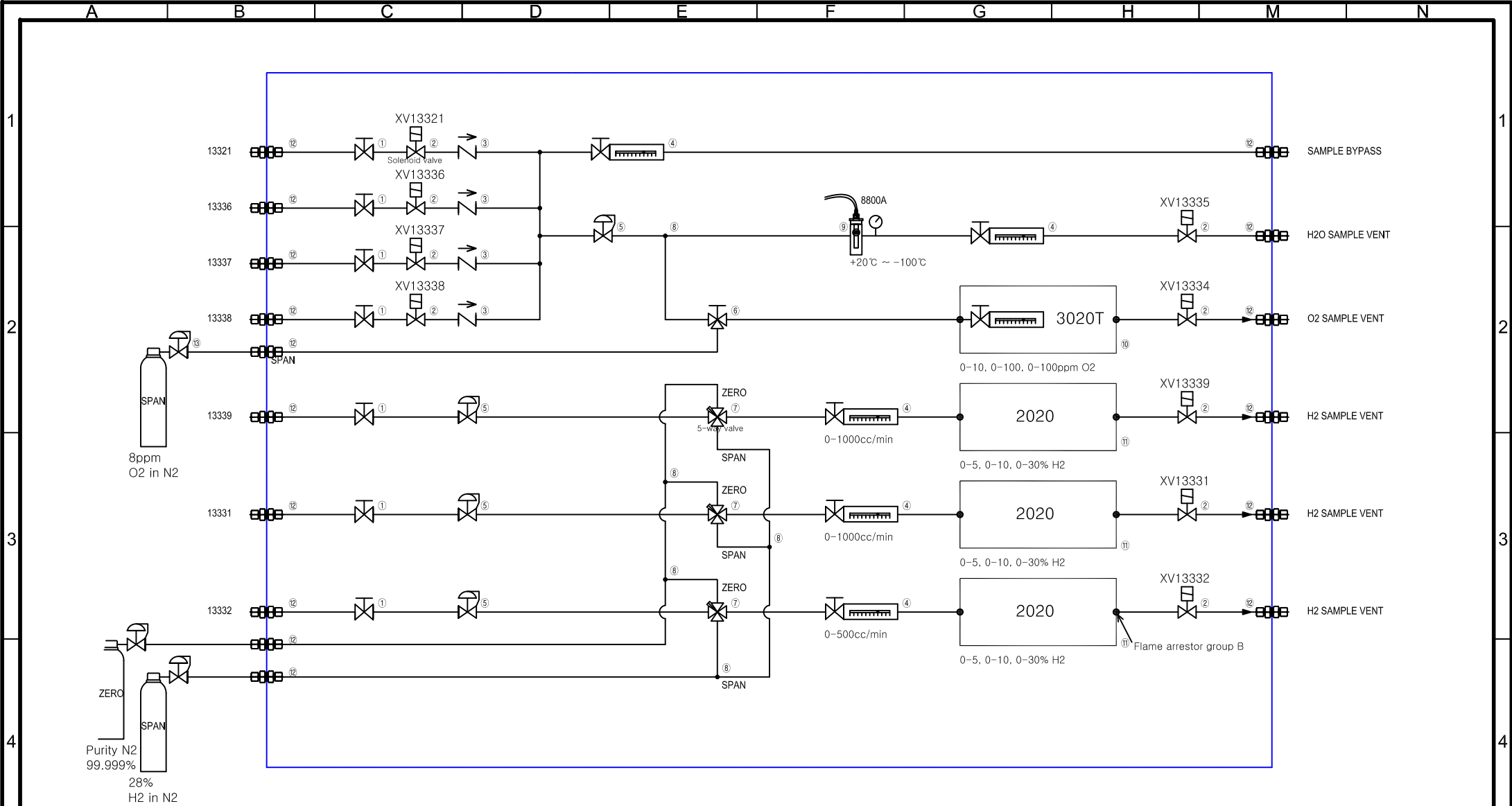

 (주) 호원아이엔씨
 HOWON Instrument & control Co., Ltd.

PROJECT NAME

TITLE: Analyzer Rack Rear View


Scale: NONE DWG. No.

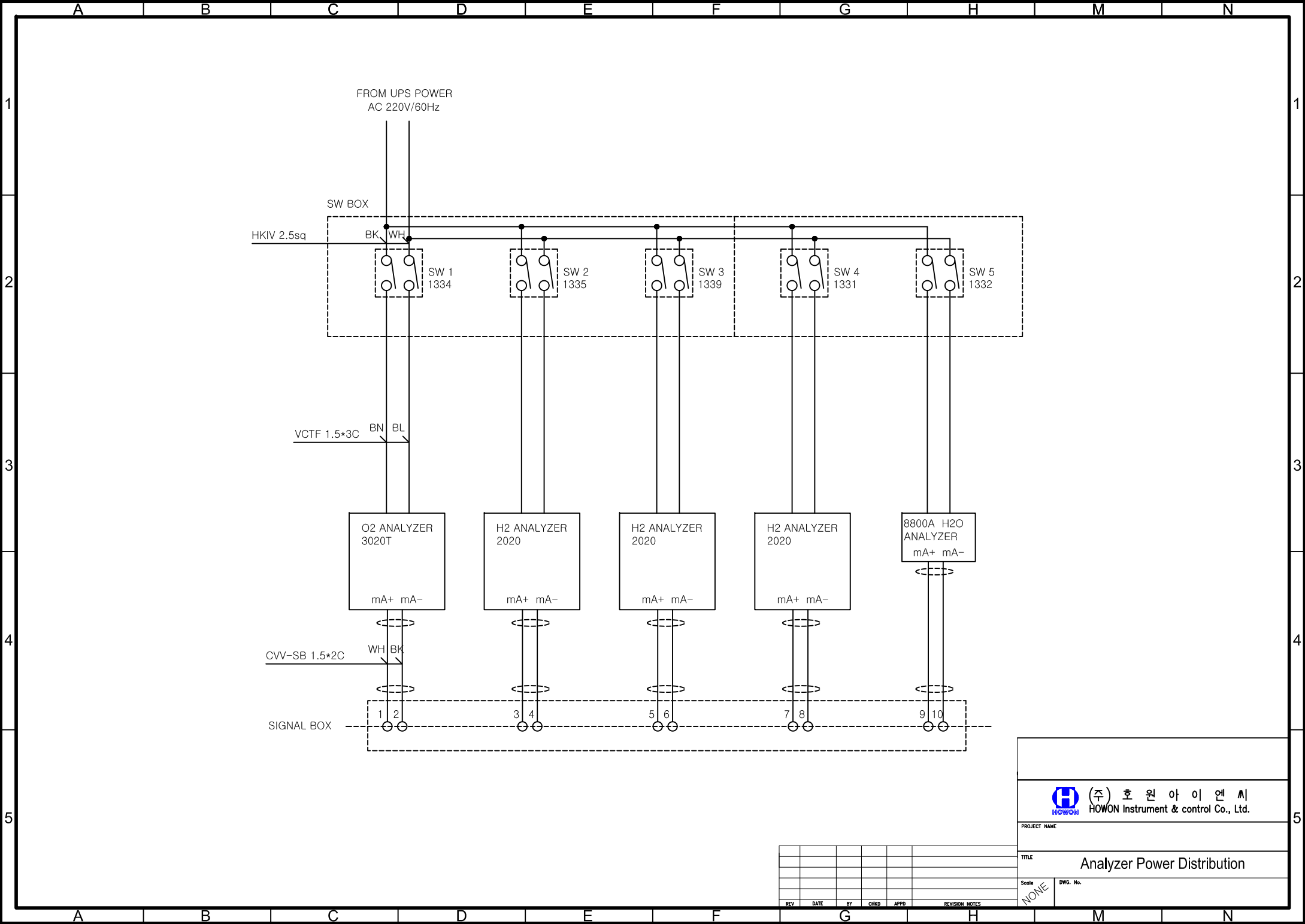
REV	DATE	BY	CHKD	APPD	REVISION NOTES




No	DESCRIPTION	MODEL	MAKER
01	2-way Ball Valve 1/4" LOK	B1VH-4T	HYLOK
02	2-way Solenoid Valve 1/4" DC24V	121VVG2NT00	PARKER
03	Check Valve 1/4" LOK 0.33P	CV1-H-4T 1/3	HYLOK
04	Flowmeter 0-1L/min	RMA13	DWYER
05	Line Regulator	44-2262-242-010	TESCOM
06	3-way Valve 1/4" LOK	B1V3H-4T	HYLOK
07	5-way Valve 1/8" LOK	SS-43ZF2	SWAGelok
08	Union Tee 1/4"	CTA-4	HY-LOK
09	Analyzer 8800T	8800A	TELEDYNE
10	Analyzer 3020T	3020T	TELEDYNE
11	Analyzer 2020	2020	TELEDYNE
12	Bulkhead Union 1/4" LOK	CBU-4	HYLOK
13	Cylinder Regulator	44-2261-241	TESCOM

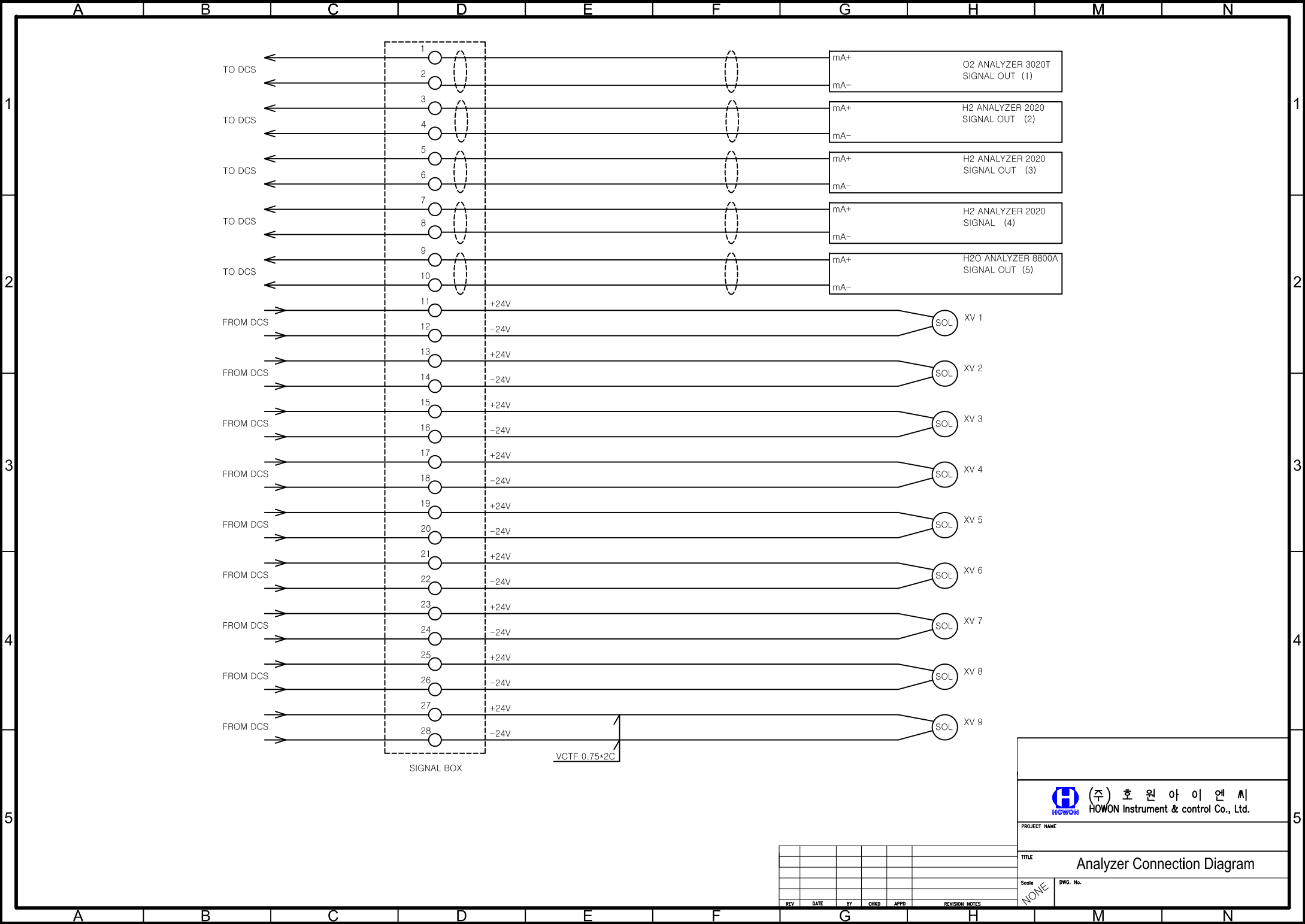
REV	DATE	BY	CHKD	APPD	REVISION NOTES


 (주) 호원아이엔씨 HOWON Instrument & control Co., Ltd.	
PROJECT NAME	
TITLE Control Schematic Tubing Diagram	
Scale NONE	DWG. No.



 (주) 호원아이엔씨 HOWON Instrument & control Co., Ltd.	
PROJECT NAME	
TITLE Analyzer Power Distribution	
Scale	DWG. No.
NONE	

REV	DATE	BY	CHKD	APPD	REVISION NOTES



 (주) 호원아이엔씨 HOWON Instrument & control Co., Ltd.	
PROJECT NAME	
TITLE Analyzer Connection Diagram	
Scale NONE	DWG. No.

REV	DATE	BY	CHKD	APPD	REVISION NOTES