

무대 장치 목록표

NO	DESCRIPTION	SPECIFICATION	POWER	Q'TY	SPEED (M/MIN)	LIGHT CIRCUIT			CAPACITY(KW)		REMARKS
						DIM	R.D	DMX	MACHINE	LIGHTING	
1	CEILING LIGHT BATTEN	13,000L	2.2 kW x 4P	1	10				2.2		
	CEILING LIGHT FLY DUCT	C-TYPE x 22 OUT, XLR 5 PIN x 2 OUT		1			2	1		6	
2	PLACARD BATTEN	13,000L	1.5 kW x 4P	1	10				1.5		
3	DRAW CURTAIN	14,250L x 4,950H , VELVET , 380g/m ² , 주름율 2배	0.4 kW x 4P	1	18				0.4		
4	NO.1 SUSPENSION LIGHT BATTEN	13,000L	2.2 kW x 4P	1	10				2.2		
	NO.1 SUSPENSION LIGHT FLY DUCT	C-TYPE x 22 OUT, XLR 5 PIN x 2 OUT		1			2	1		6	
5	NO.1 FLY SET BATTEN	13,000L	1.5 kW x 4P	1	10				1.5		
6	NO.2 SUSPENSION LIGHT BATTEN	13,000L	2.2 kW x 4P	1	10				2.2		
	NO.2 SUSPENSION LIGHT FLY DUCT	C-TYPE x 22 OUT, XLR 5 PIN x 2 OUT		1			2	1		6	
7	NO.2 FLY SET BATTEN	13,000L	1.5 kW x 4P	1	10				1.5		
8	NO.3 SUSPENSION LIGHT BATTEN	13,000L	2.2 kW x 4P	1	10				2.2		
	NO.3 SUSPENSION LIGHT FLY DUCT	C-TYPE x 22 OUT, XLR 5 PIN x 2 OUT		1			2	1		6	
9	FLAG BATTEN	13,000L	1.5 kW x 4P	1	10				1.5		
10	COVER CURTAIN	16,500L x 4,950H , VELVET , 380g/m ² , 주름율 2배	0.4 kW x 4P	1	18				0.4		
11	NO.1 SIDE COVER CURTAIN	5,000L x 4,500H , VELVET , 380g/m ² , 주름율 2배	MANUAL	2	-						
12	NO.2 SIDE COVER CURTAIN	1,100L x 4,950H , VELVET , 380g/m ² , 주름율 2배	MANUAL	2	-						
13	GRID IRON			1							
14	MAIN POWER PANEL	MOTOR & REMOTE DIRECT POWER		1 식							1차 전원 인입 ; 건축전기 공사분
15	MOTOR & R.D CONTROL BOARD	MOTOR 10 CIR' & REMOTE DIRECT 12 CIR'		1							
16	SUB OPERATION BOATD	MOTOR 10 CIR'		1							
17	PIPING & WIRING	MTR 10 / RD 12 / DMX 4		1							
18	FLOOR POCKET	C-TYPE x 4 OUT		4			4			12	
19	LIGHT CONTROL CONSOLE	1024 CHANNEL		1							
20	LED SPOT LIGHT	200W LED		18							
21	LED ELLIPSOID LIGHT	200W LED		16							
22	LED MOVING WASH LIGHT	15W x 19LED		16							
23	LED PAR LIGHT	200W LED		36							
	SPARE			1							
									15.6	36	kW
									51.6		TOTAL kW

NO.	DATE	NOTE

REVISION

CONSULTANTS

DRAWING TITLE

공연장 무대장치 사양서

DRAWN BY

CHECKED BY 이지선

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DATE 2020.12.

SCALE A1: NONE, A3: NONE

DWG NO. E - 501

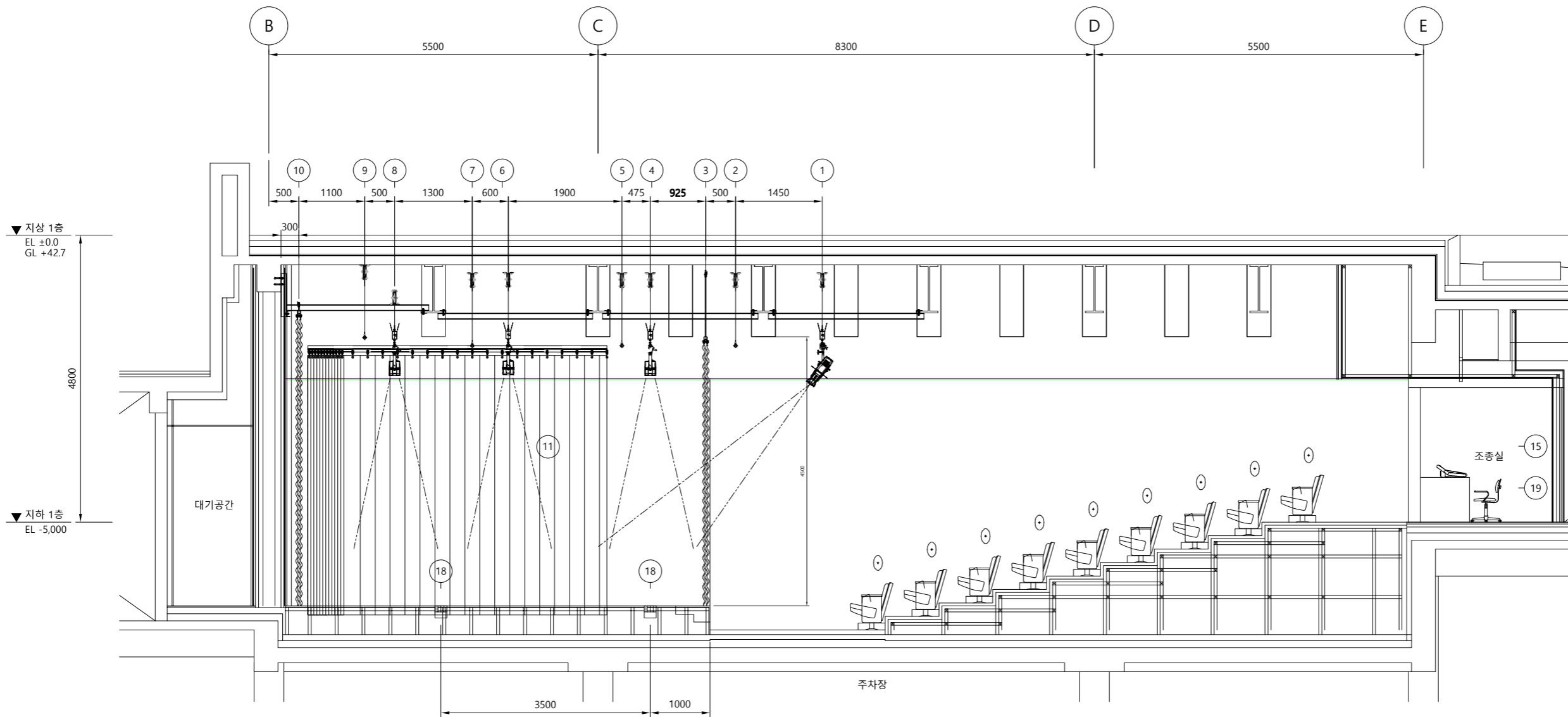
DWG FILE NO.



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04056 서울시 마포구 신촌로4길 14 401호
T: 02-323-2251 F: 02-323-2291



1 공연장 무대기계장치 단면도
SCALE : 1 / 80



NO.	DATE	NOTE

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공연장 무대기계장치 단면도

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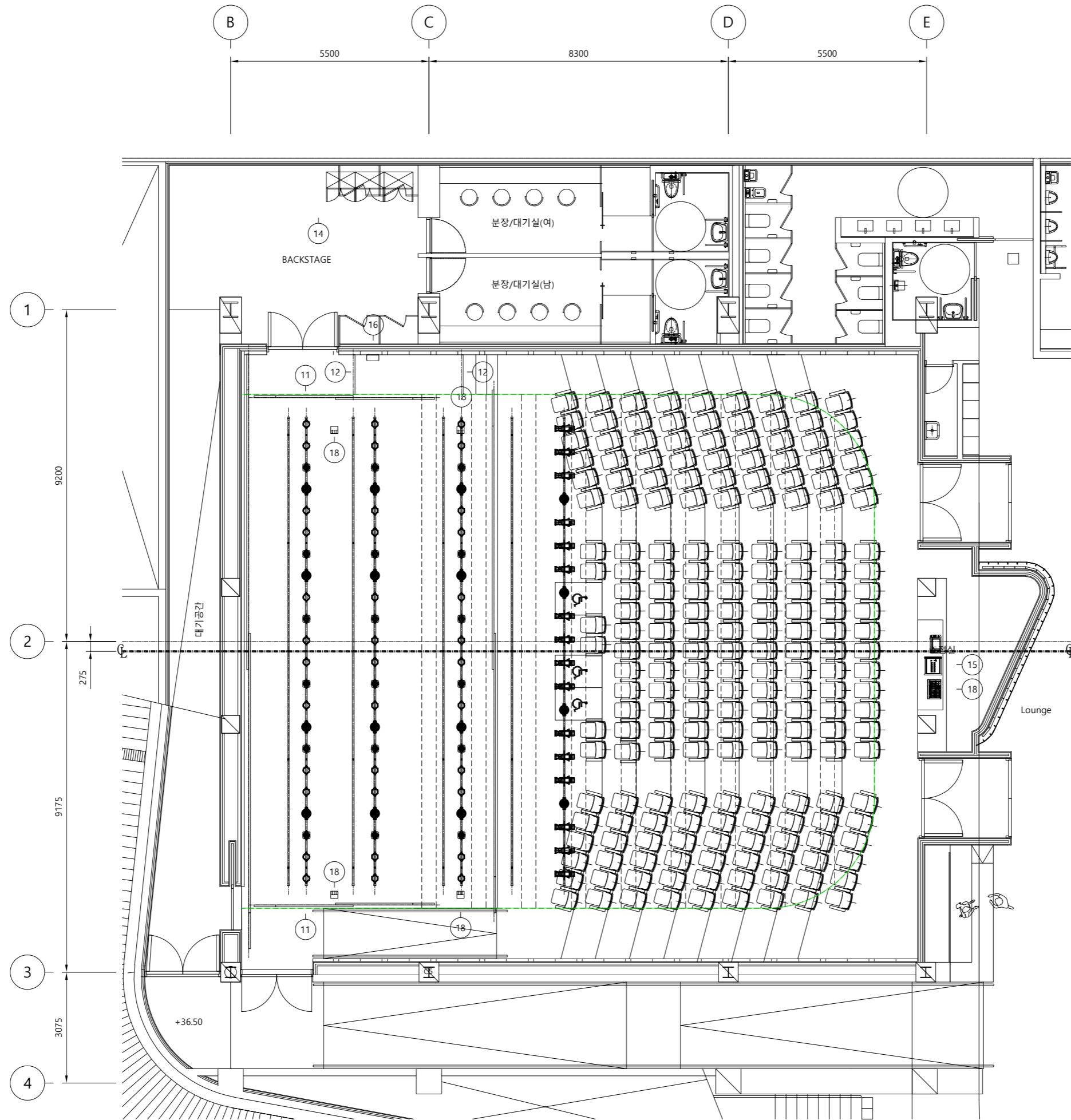
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DWG NO. E - 502

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1 공연장 무대조명 설비 평면도-1
SCALE : 1 / 120

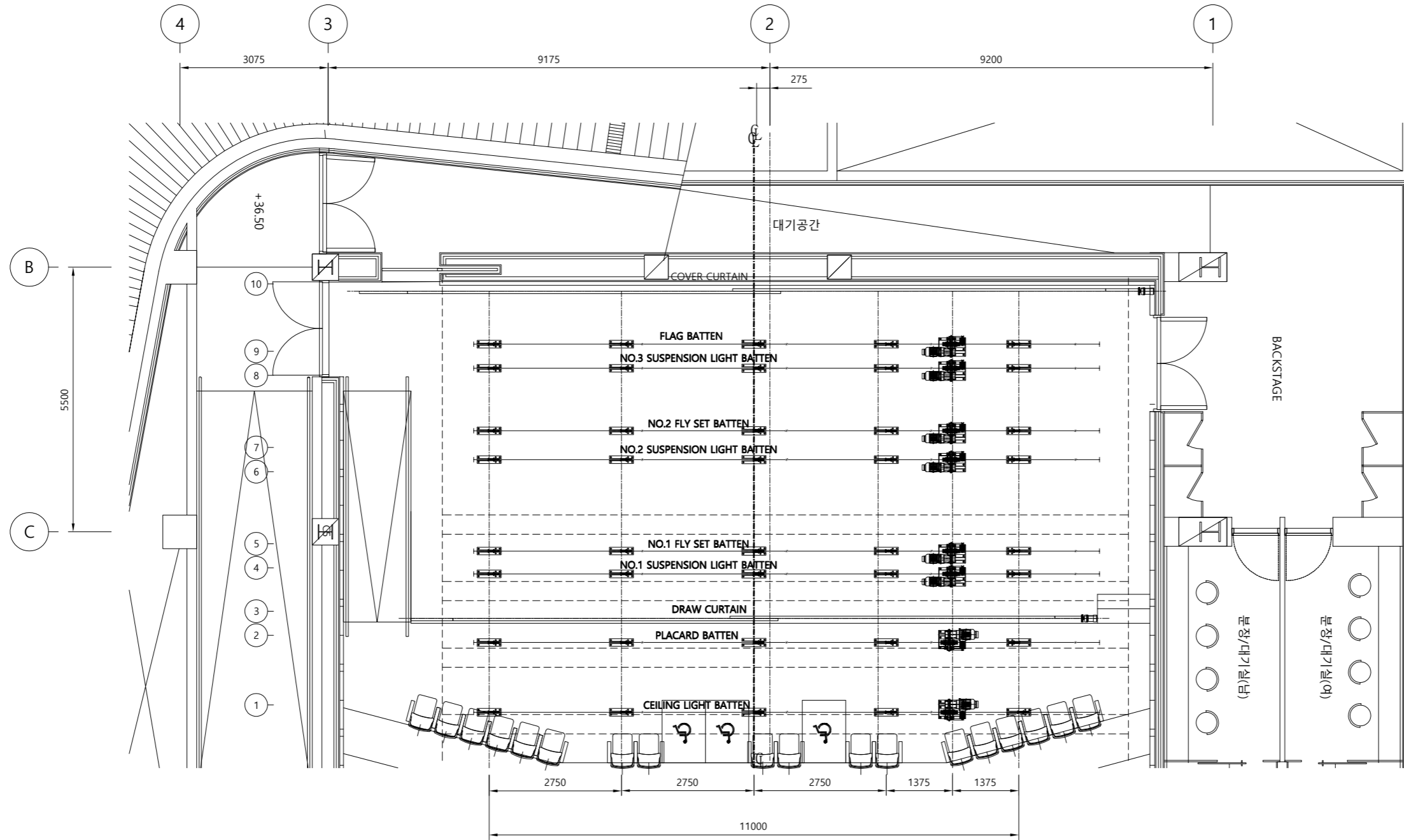
(주)한길 엔지니어링
FIRE PROTECTION & HVAC ENGINEERING
경기지방 42271-14호 전문기술인사등록
벤처사업 등록번호 신고번호 제E-9-2024호 (주)한길엔지니어링(정몽헌)
세종특별자치시 금강로 211 (연남동, 세신우성빌딩 201호)
TEL : 031-442-2999 FAX : 031-442-9493
E-MAIL : HANGIL-ENGINEERING.COM

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공연장 무대조명 설비 평면도-1		
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DATE	2020.12.	
SCALE	A1: 1/60, A3: 1/120	
DWG NO.	E - 503	
DWG FILE NO.		

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	DRIVE MACHINE	2.2 kW x 4P 1.5 kW x 4P	for LIGHT & SET BATTEN
	DRIVE MACHINE	0.4 kW x 4P	for CURTAIN
	VERTICAL SHEAVE	ø200 x 1P	1P ~ 3P



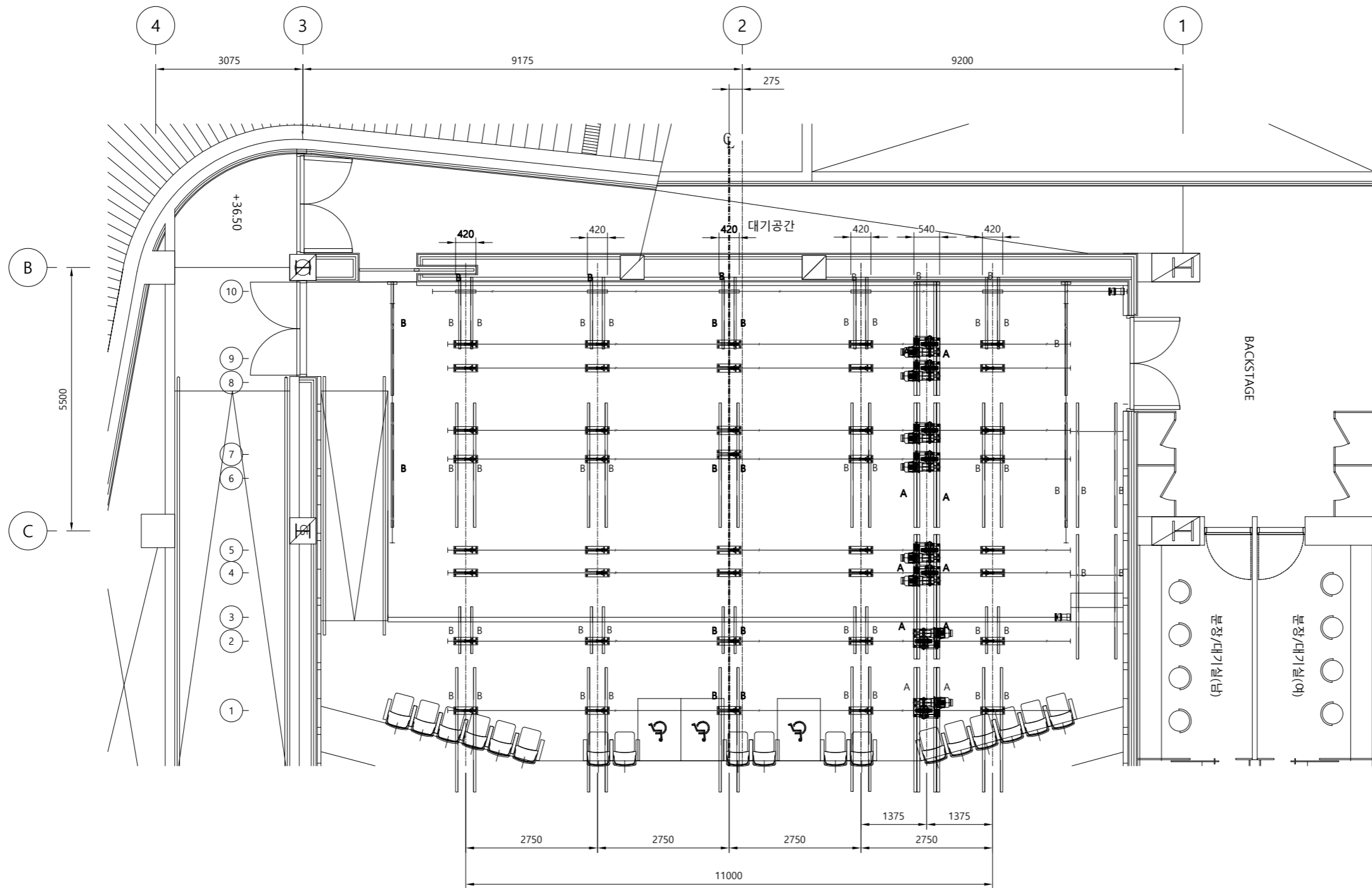
1 공연장 무대조명 설비 평면도-2
SCALE : 1 / 100

NO.	DATE	NOTE
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DRAWING TITLE 공연장 무대조명 설비 평면도-2		
DRAWN BY		
CHECKED BY		이지선
APPROVED BY		이소연
DATE		2020.12.
SCALE		A1: 1/50, A3: 1/100
DWG NO.		E - 504
DWG FILE NO.		

(주)한길 엔지니어링
FIRE PROTECTION & HVAC ENGINEERING
설계: 02-542-11-040 | 영업: 02-542-11-041
본사: 서울특별시 강남구 테헤란로 224 (주최: 02-542-11-040) | 본사: 서울특별시 강남구 테헤란로 224 (주최: 02-542-11-040)
400-000-0000 | 02-542-11-040 | 02-542-11-041 | 02-542-11-042
E-MAIL: HANGIL-ENGINEERING.COM

SIMBOL	DESCRIPTION	DIMENSION	REMARK
A	H-BEAM	H 125x125x9t	for MACHINE
B	CHANNEL	ㄷ 100x50x5x7t	for SHEAVE

서대문구
 북아현 문화체육센터
 건립공사



1 공연장 무대조명 설비 평면도-3
 SCALE : 1 / 100

NO.	DATE	NOTE

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 공연장 무대조명 설비 평면도-3

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SCALE A1: 1/50, A3: 1/100

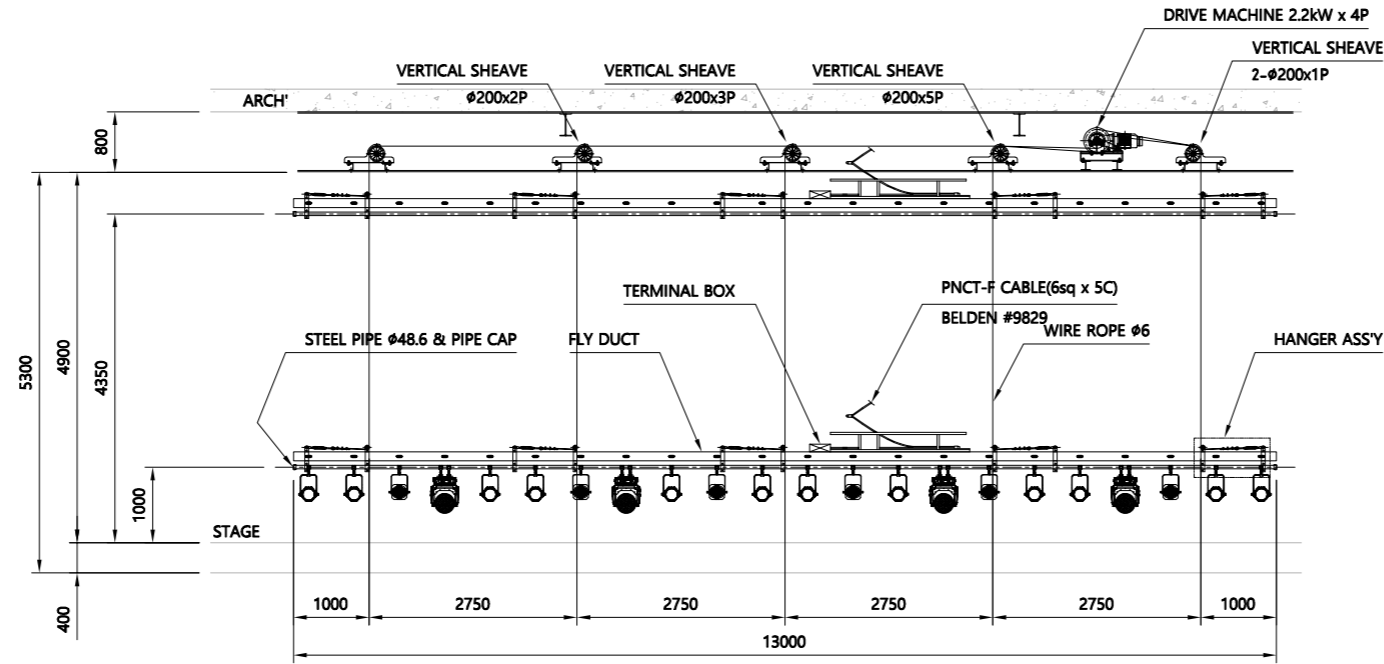
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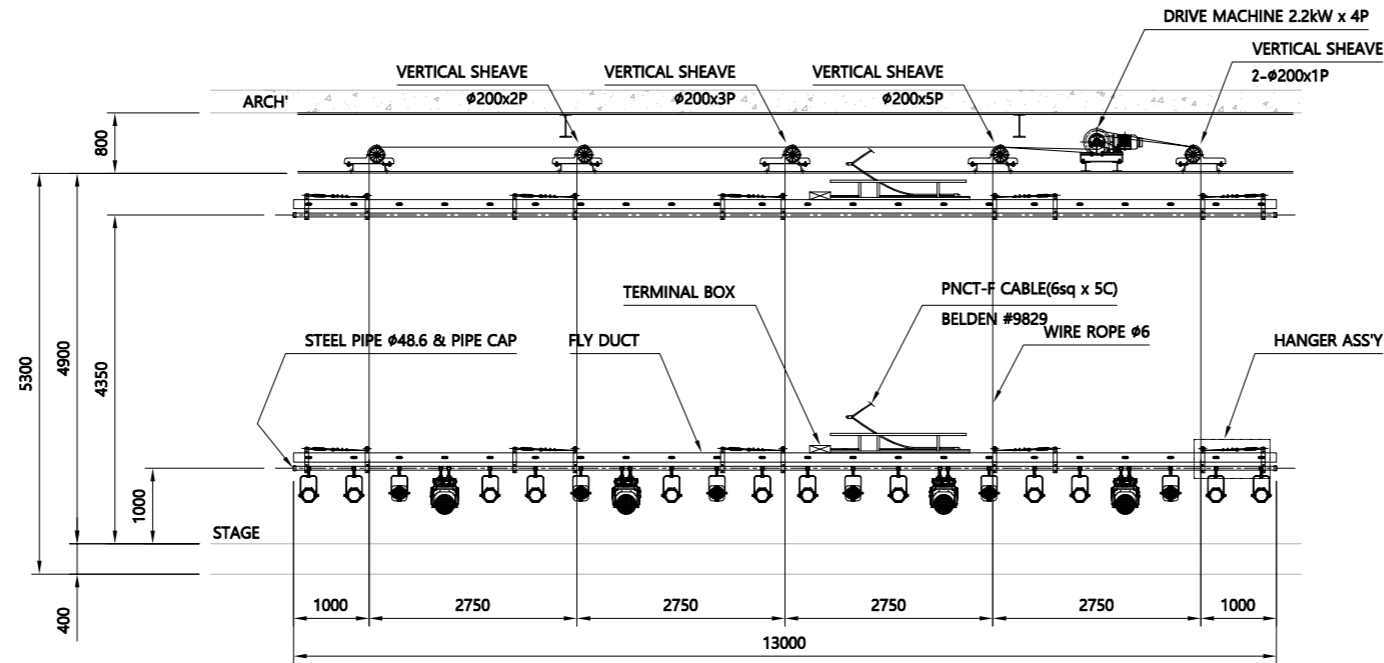


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NO	DESCRIPTION	DIMENSION	SPECIFICATION	CONTROL	POWER	Q'TY	R/D	DMX	REMARK
1	CEILING LIGHT BATTEN	13,000L		MOTORIZED	2.2KW x 4P	1SET			
	CEILING LIGHT FLY DUCT		C-TYPEx22 OUT, XLR 5PINx2OUT			1SET	2	1	
21	LED ELLIPSOID LIGHT		200W LED			16SET			
22	LED MOVING WASH LIGHT		15W x 19LED			4SET			



NO	DESCRIPTION	DIMENSION	SPECIFICATION	CONTROL	POWER	Q'TY	R/D	DMX	REMARK
4, 7, 9	NO.1~3 SUSPENSION LIGHT BATTEN	13,000L		MOTORIZED	2.2KW x 4P	1SET			
	NO.1~3 SUSPENSION LIGHT FLY DUCT		C-TYPEx22 OUT, XLR 5PINx2OUT			1SET	2x3=6	1x3=3	
20	LED SPOT LIGHT		200W LED			18SET			
22	LED MOVING WASH LIGHT		15W x 19LED			12SET			
23	LED PAR LIGHT		200W LED			36SET			

1 공연장 무대장치 설치 상세도-1
SCALE : NONE



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공연장 무대조명 설치 상세도-1

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DATE 2020.12.

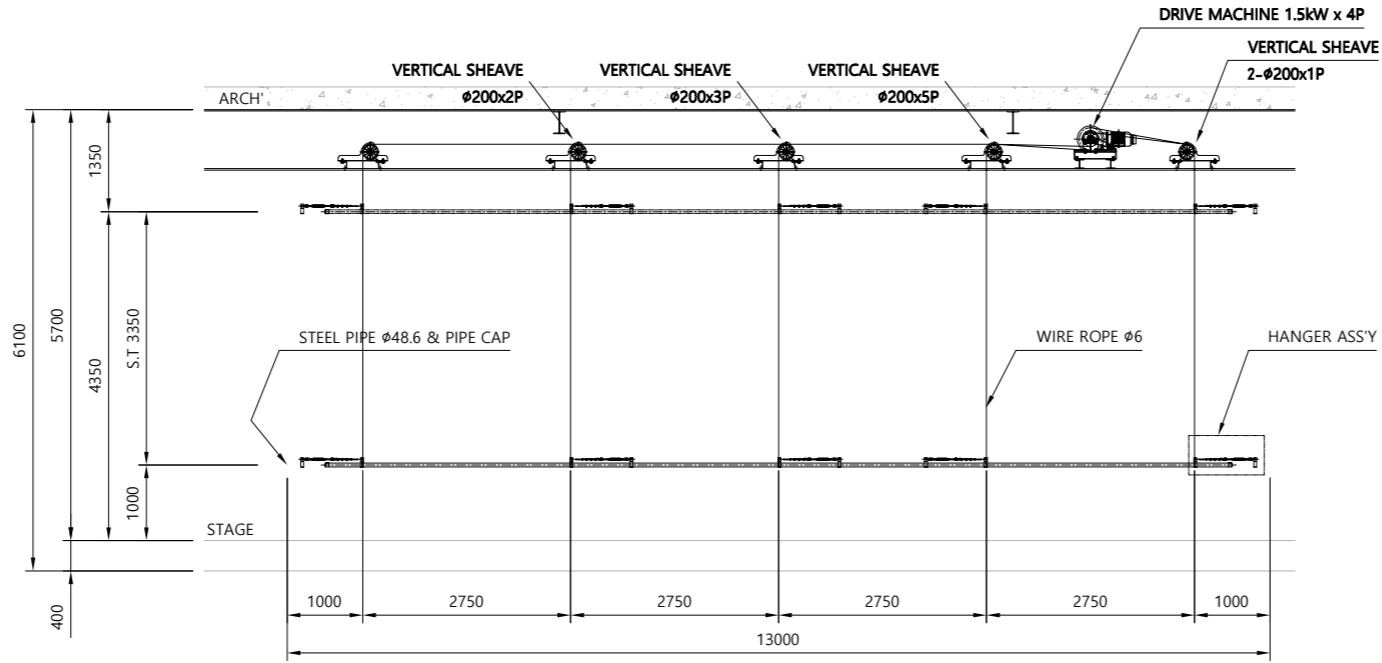
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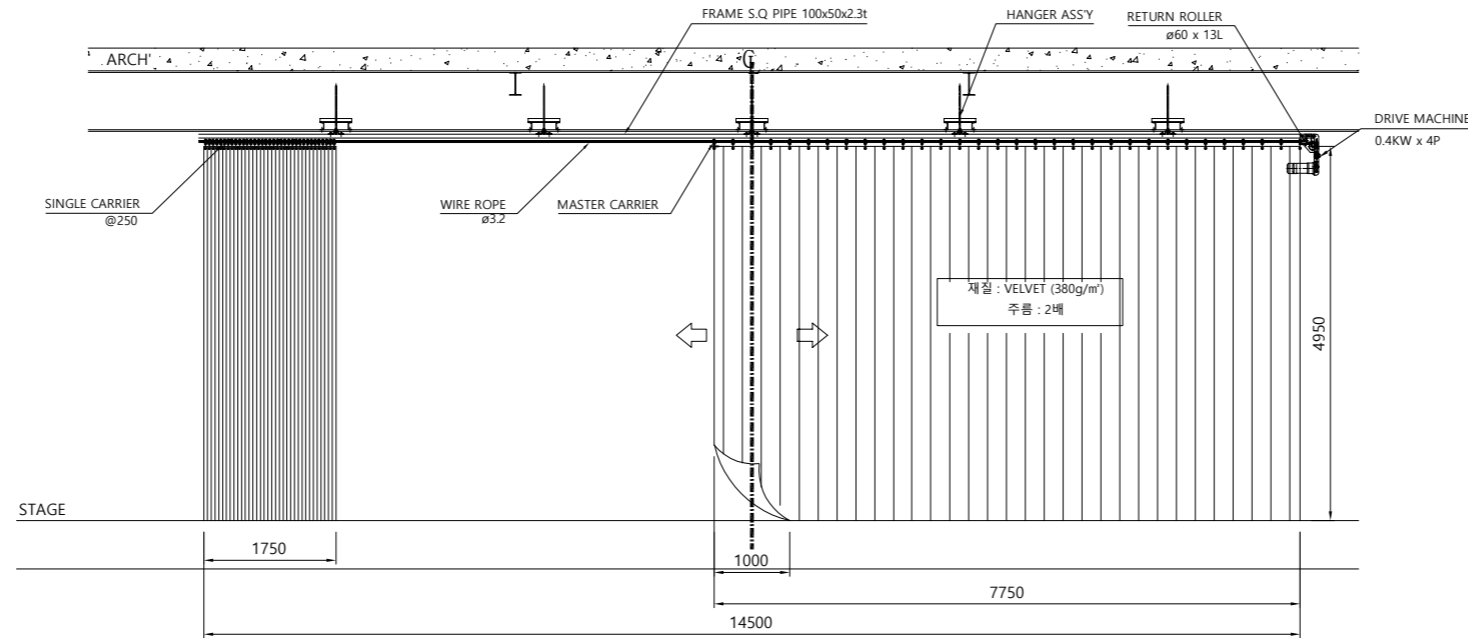
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NO	DESCRIPTION	DIMENSION	CONTROL	POWER	SPEED	REMARK
2	PLACARD BATTEN	13,000L	MOTORIZED	1.5KW x 4P	10 M/MIN	1 SET
5, 8	FLY SET BATTEN	13,000L	MOTORIZED	1.5KW x 4P	10 M/MIN	2 SET
10	FLAG BATTEN	13,000L	MOTORIZED	1.5KW x 4P	10 M/MIN	1 SET



NO	DESCRIPTION	DIMENSION	CONTROL	POWER	SPEED	REMARK
3	DRAW CURTAIN	14,250L x 4,950H	MOTORIZED	0.4kW x 4P	18 M/MIN	

1 공연장 무대장치 설치 상세도-2
SCALE : NONE

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공연장 무대조명 설치 상세도-2

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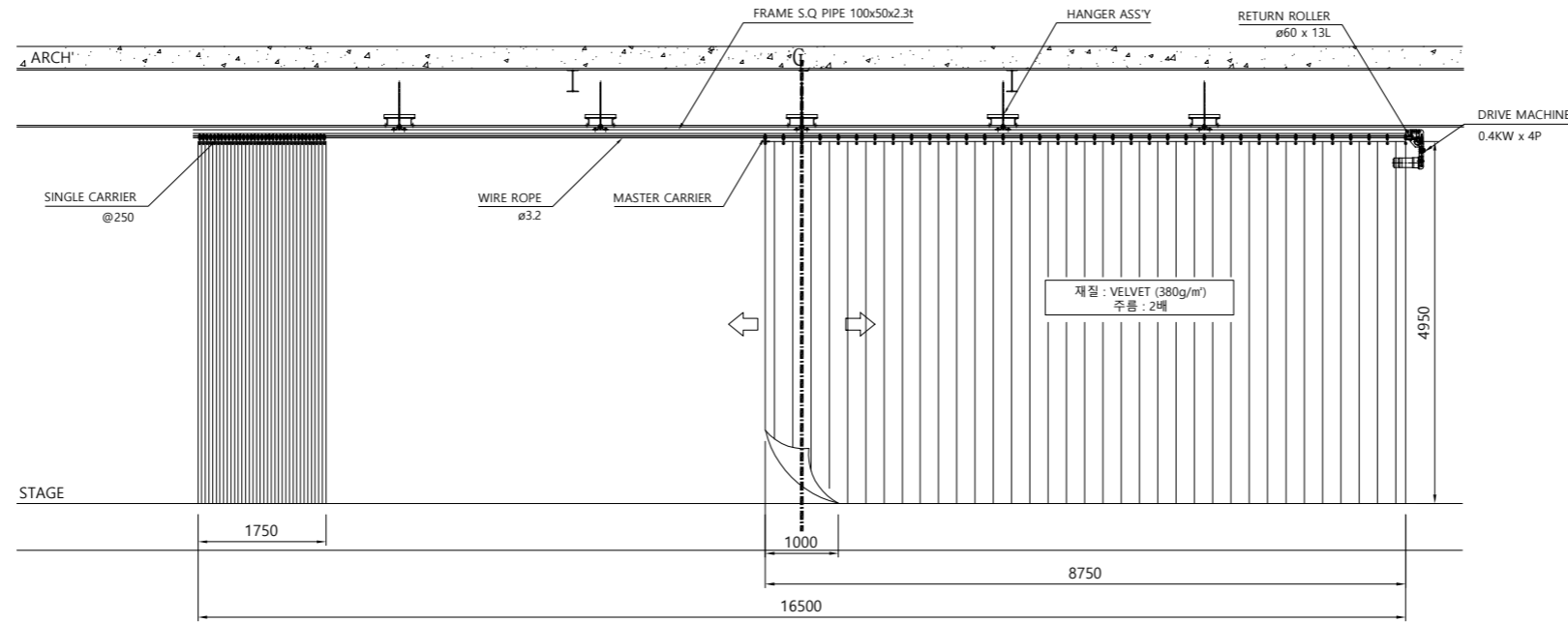
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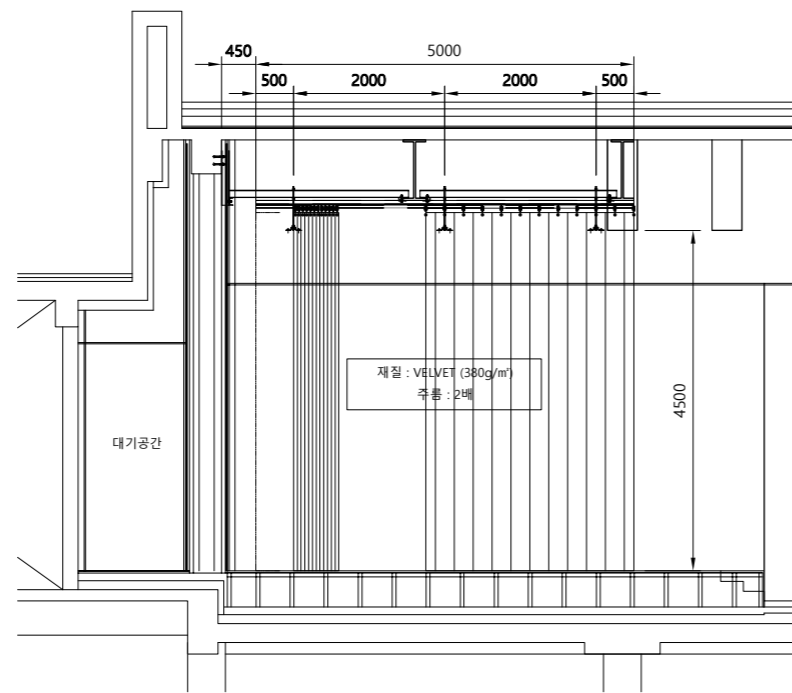
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DWG NO. E - 507

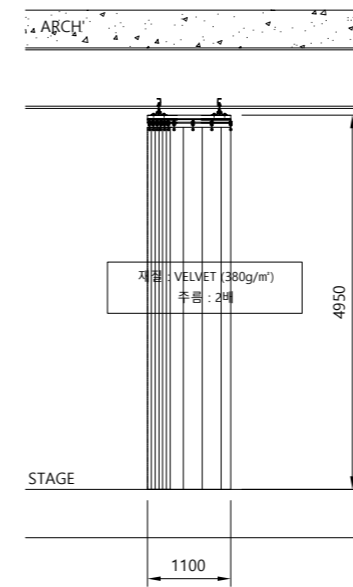
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NO	DESCRIPTION	DIMENSION	CONTROL	POWER	SPEED	REMARK
10	COVER CURTAIN	16,500L x 4,950H	MOTORIZED	0.4kW x 4P	18 M/MIN	



○ NO.1 SIDE COVER CURTAIN



○ NO.2 SIDE COVER CURTAIN

NO	DESCRIPTION	DIMENSION	CONTROL	POWER	SPEED	REMARK
11	NO.1 SIDE COVER CURTAIN	5,000L x 4,500H	MANUAL	---	FREE	2 SET
12	NO.2 SIDE COVER CURTAIN	1,100L x 4,950H	MANUAL	---	FREE	2 SET

1 공연장 무대장치 설치 상세도-3
SCALE : NONE



NO.	DATE	NOTE

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공연장 무대조명 설치 상세도-3

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DATE 2020.12.

SCALE A1: NONE, A3: NONE

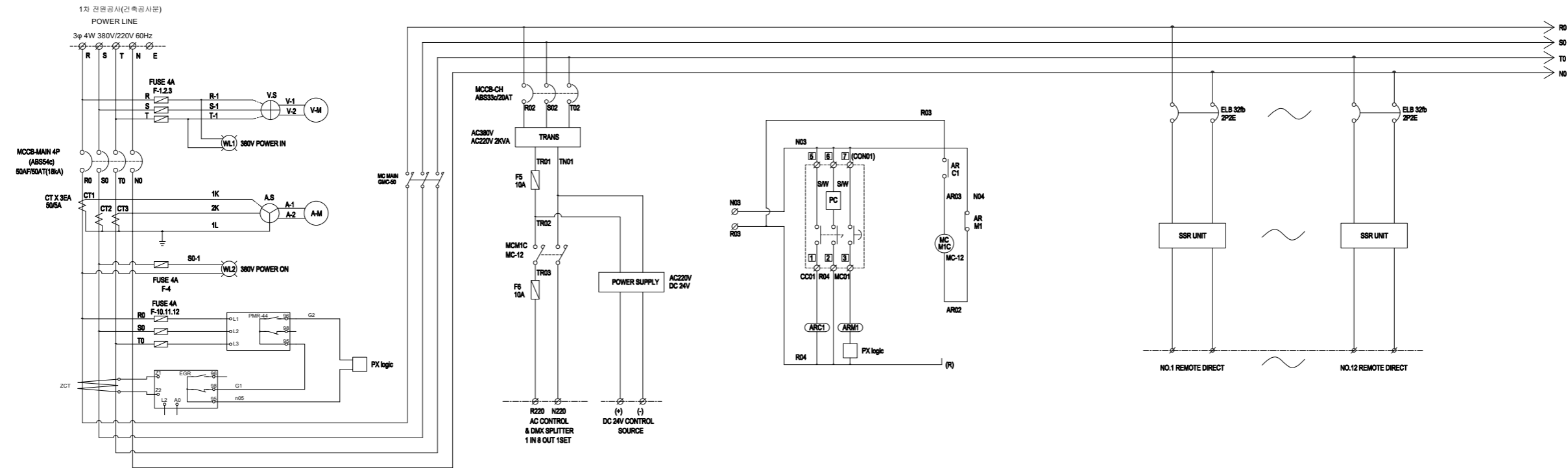
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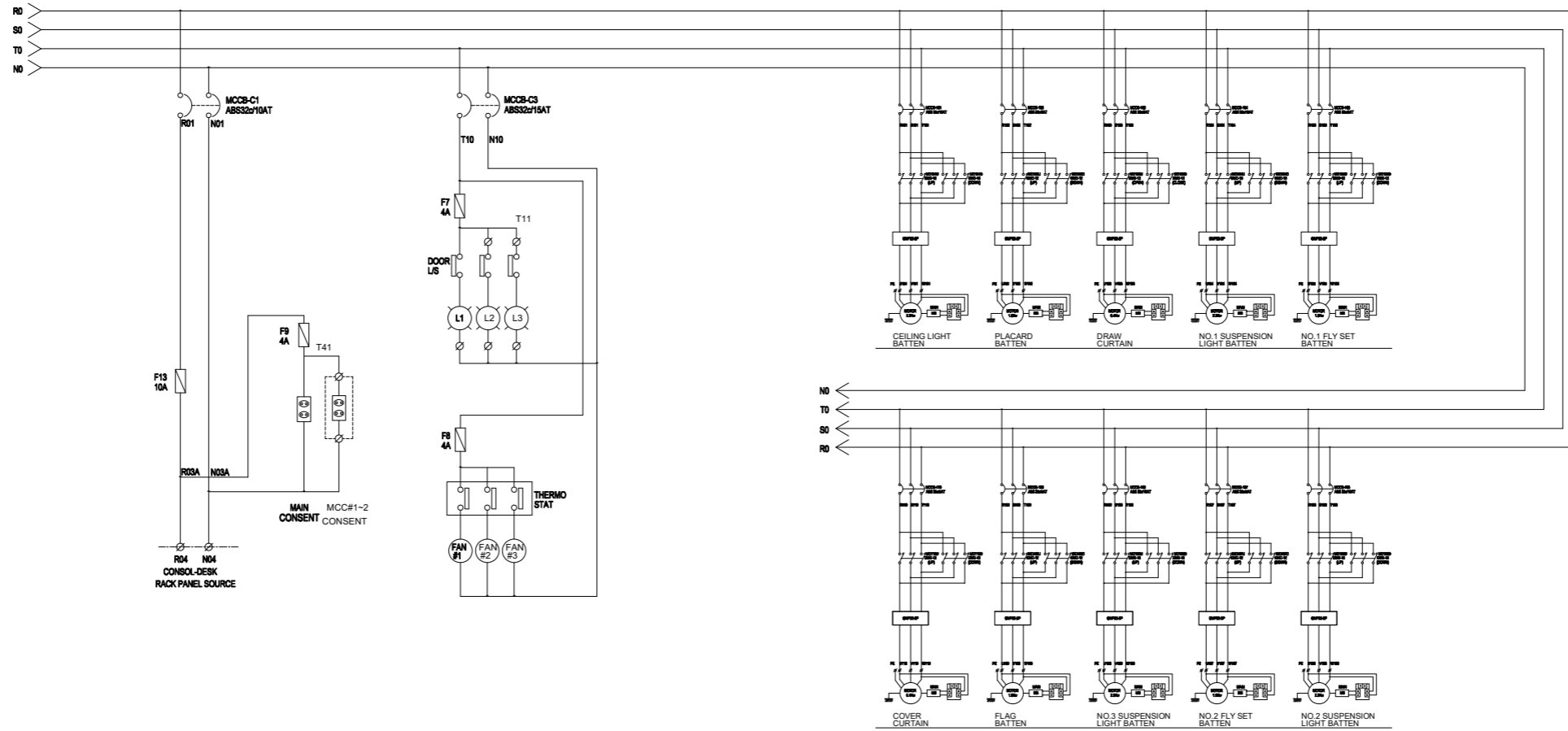
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NAME PLATE SCHEDULE

NO.	TAG. NO	NAME PLATE	SPEC
1	MCCB	배선용 차단기	ABS TYPE
2	MC	전차 계통기	MC TYPE
3	V-M	교류 전압계	100x100 600V
4	A-M	교류 전압계	100x100 200A
5	V-S	전압상 변화 스위치	3 LINE AC 220V
6	A-S	전압상 변화 스위치	3 LINE AC 220V
7	WL	원형 표시등	380V
8	CT	계기용 변류기	100/5A
9	TR	기기용 변압기	380V/220V 2KVA
10	PMR	결상 계전기	AC380V
11	DOOR L/S	도어 리미트 스위치	B TYPE
12	L	형광등	220V
13	FAN	팬	80x80 220V
14	THERMO STAT	온도 감지기	0-80°
15	CONSENT	콘센트	220V
16	FUSE-F1	V-M(R)	4A
17	FUSE-F2	V-M(S)	4A
18	FUSE-F3	V-M(T)	4A
19	FUSE-F4	POWER ON	4A
20	FUSE-F5	TR	4A
21	FUSE-F6	CONTROL SOURCE	10A
22	FUSE-F7	LIGHT	10A
23	FUSE-F8	FAN	10A
24	FUSE-F9	CONSENT	4A
25	FUSE-F10	PMR	4A
26	FUSE-F11	PMR	4A
27	FUSE-F12	PMR	4A
28	FUSE-F13	PMR	10A



NO. DATE NOTE

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DRAWING TITLE
**무대장치 전기
POWER LINE BLOCK DIAGRAM**

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DATE 2020.12.

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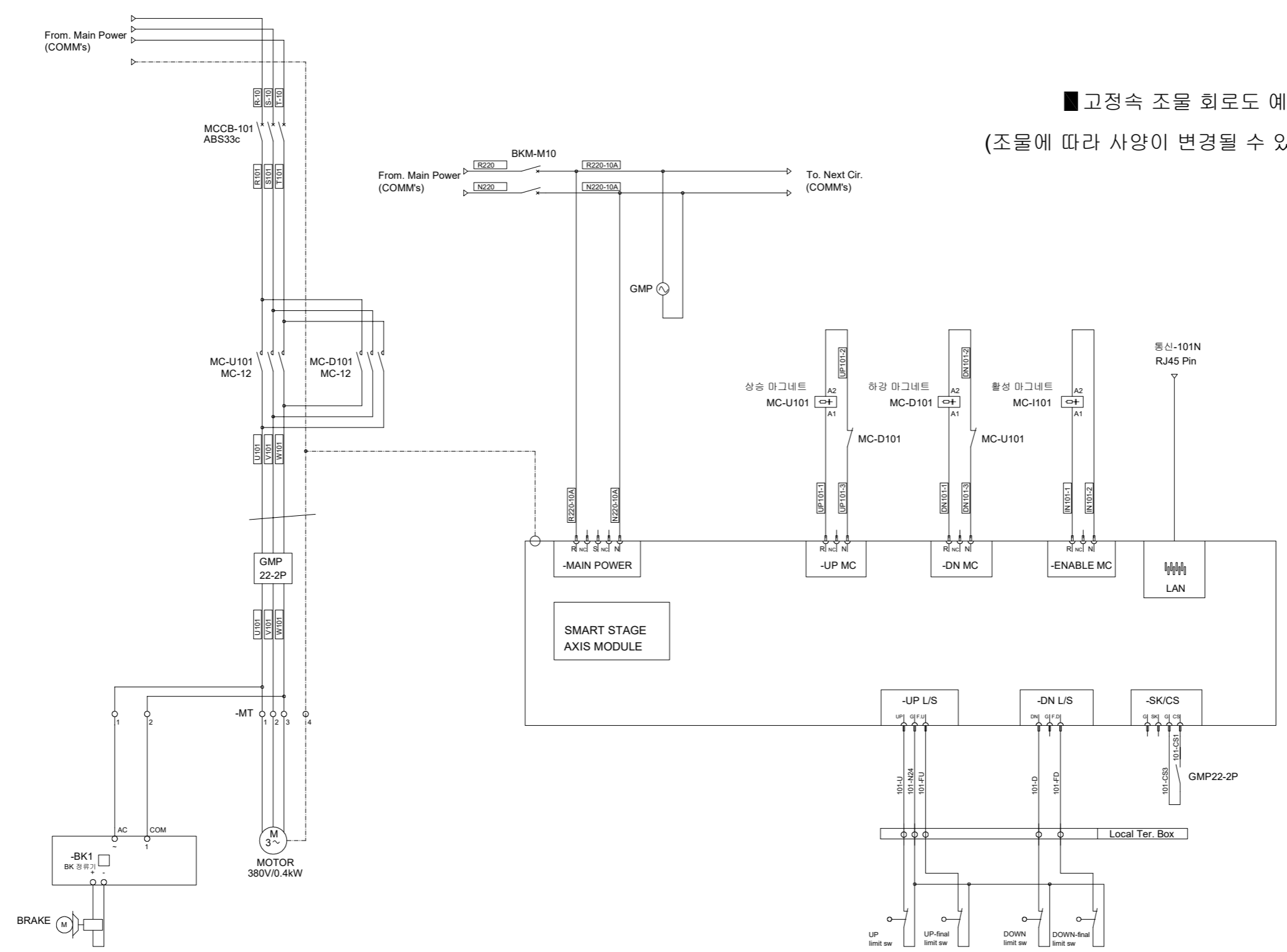
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고정속 조물 회로도 예시
(조물에 따라 사양이 변경될 수 있음)



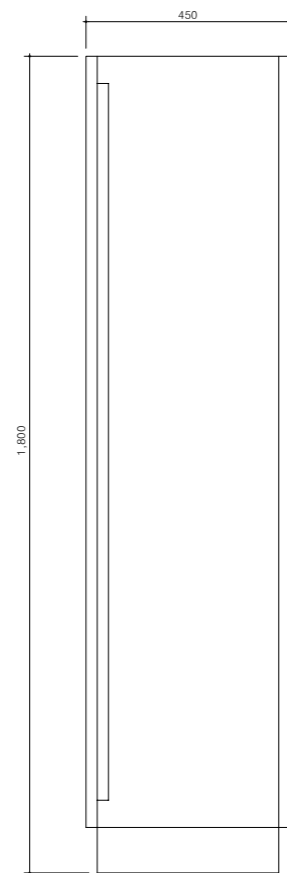
NO.	DATE	NOTE
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DRAWING TITLE		
무대장치 전기 MOTOR CONTROL CIRCUIT		
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APPROVED BY	이소연	
DATE	2020.12.	
SCALE	A1: NONE, A3: NONE	
DWG NO.	E - 510	
DWG FILE NO.		

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FIRE PROTECTION & HVAC ENGINEERING
설계: 2020.11.04, 2020.11.04, 2020.11.04
설계: 이소연, 이지선, 이지선, 이지선
400-940-2994, 02-442-2994, 02-442-2994
FAX: 02-442-2994
E-MAIL: HANGIL-ENGINEERING.COM

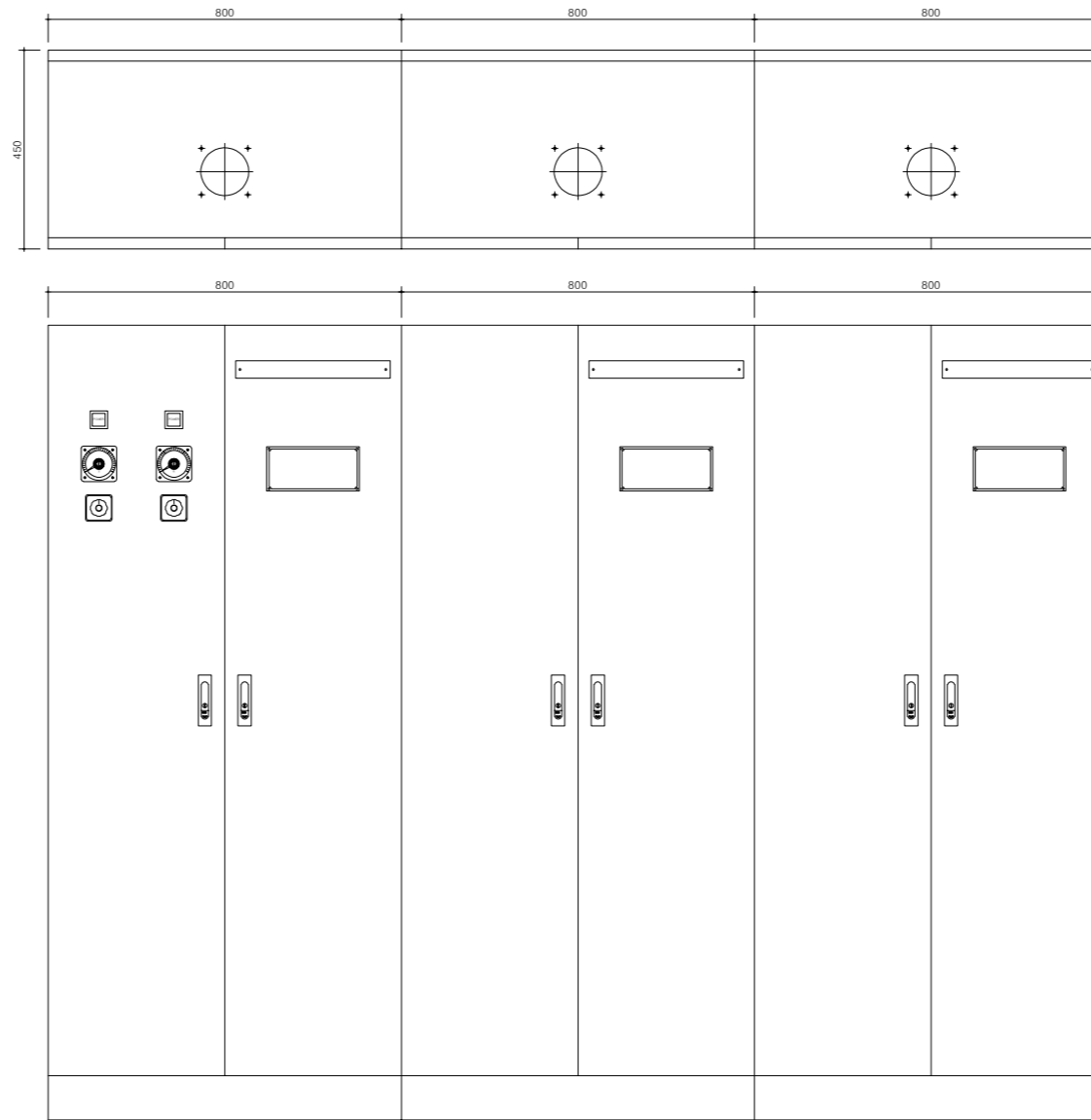
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CONTROL PANEL DETAIL		
PANEL THICKNESS	FRAME	STEEL PLATE 2.3t
	DOOR	STEEL PLATE 2.3t
	SIDE, TOP, BOTTOM	STEEL PLATE 1.6t
	BASE	STEEL PLATE 2.3t
PAINING COLOR	자갈색	



LEFT SIDE VIEW



FRONT VIEW

NO.	DATE	NOTE

REVISION

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**무대장치 전기
CONTROL PANEL LAYOUT**

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DATE 2020.12.

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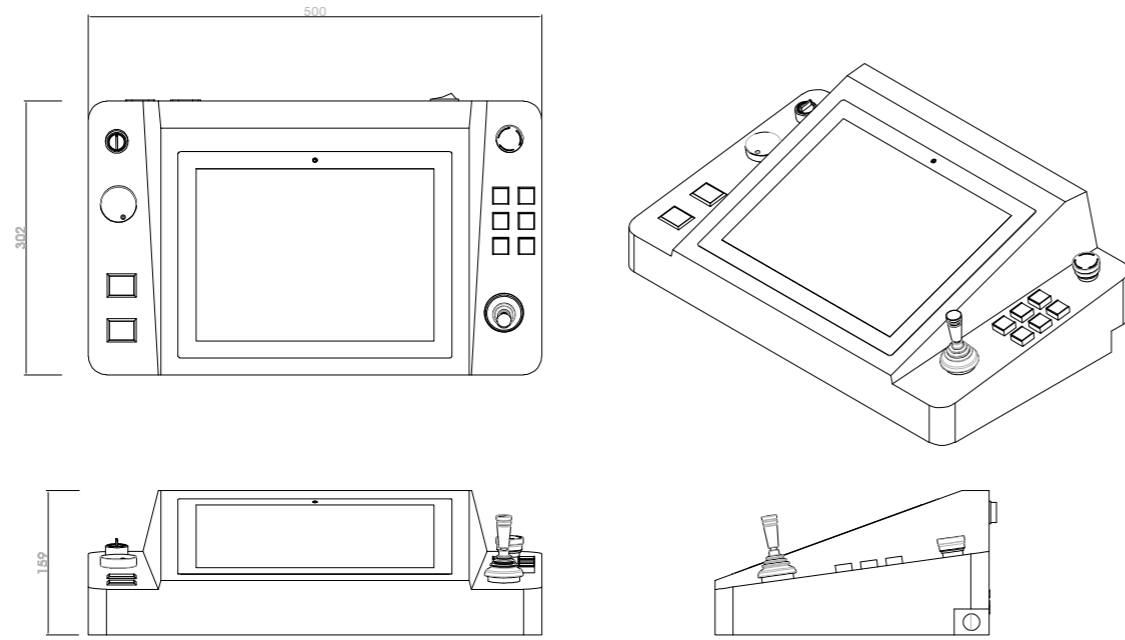
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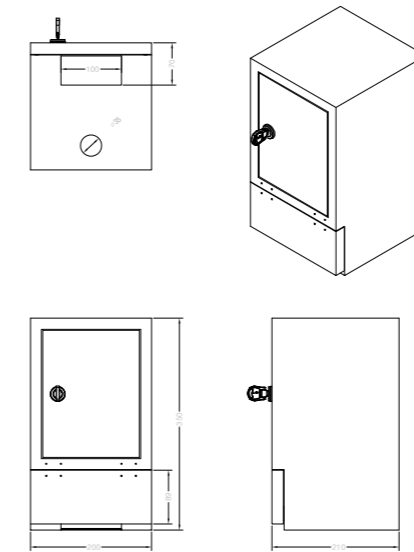
(주)한길 엔지니어링
 FIRE PROTECTION & HVAC ENGINEERING
 2012년 12월 11일 등록, 전문기술인사등록
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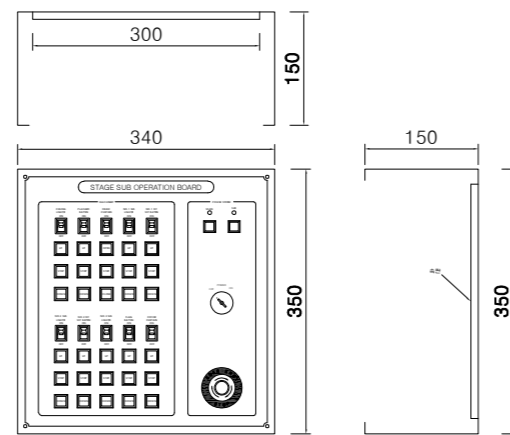
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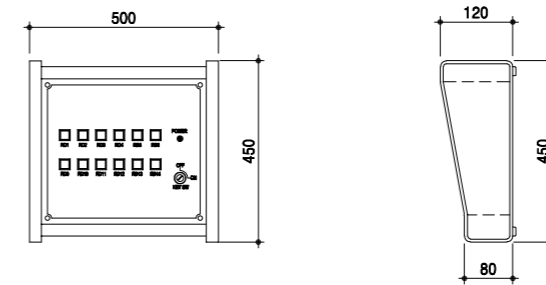
○ MAIN CONSOLE



○ CONSOLE JACK BOX



○ SUB OPERATION BOARD



○ R/D CONSOLE

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**무대장치 전기
CONTROL CONSOLE LAYOUT**

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DATE 2020.12.

SCALE A1: NONE, A3: NONE

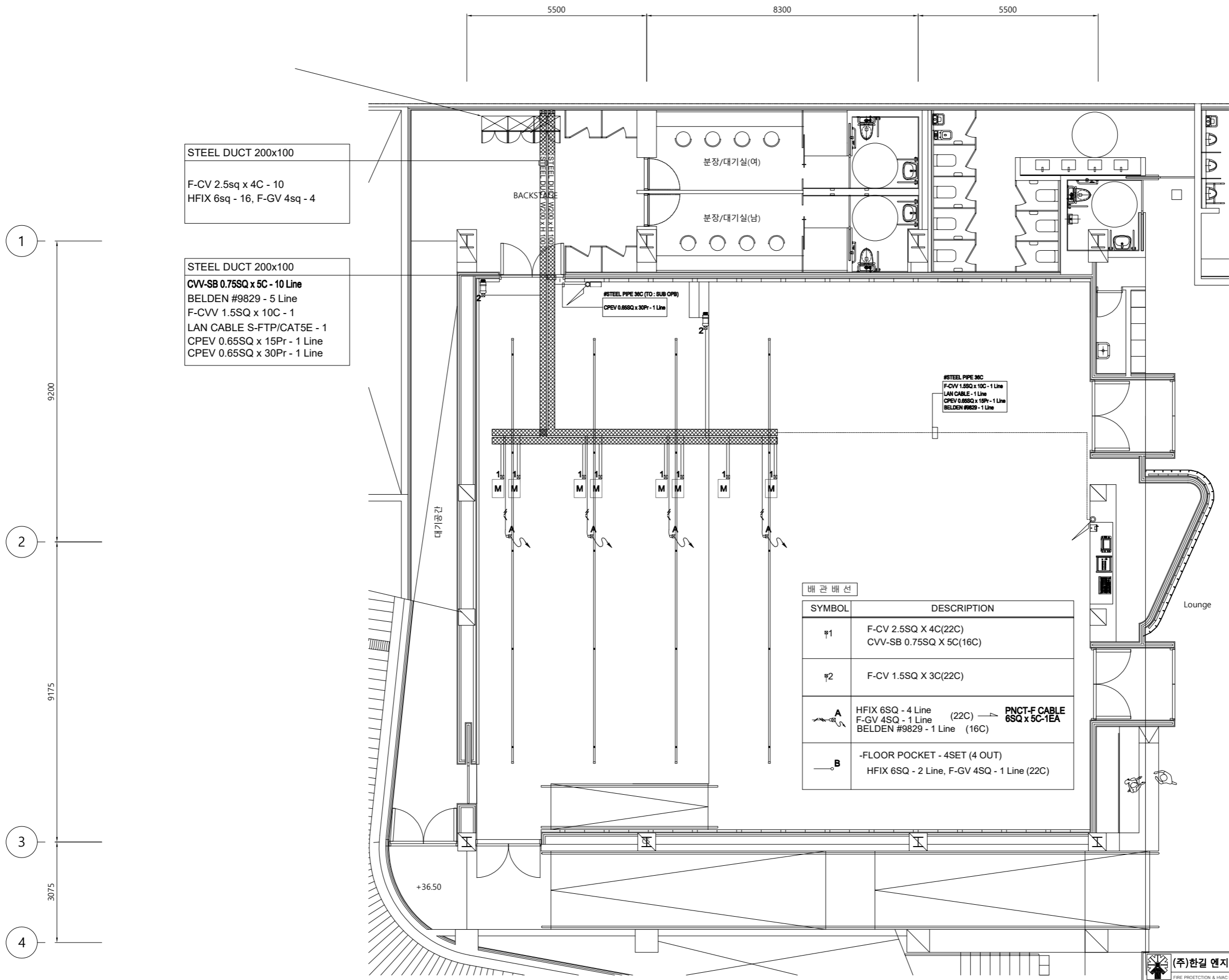
DWG NO. E - 512

DWG FILE NO.



INTER:KERD
Architecture & Property solutions

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STEEL DUCT 200x100
F-CV 2.5sq x 4C - 10
HFIX 6sq - 16, F-GV 4sq - 4

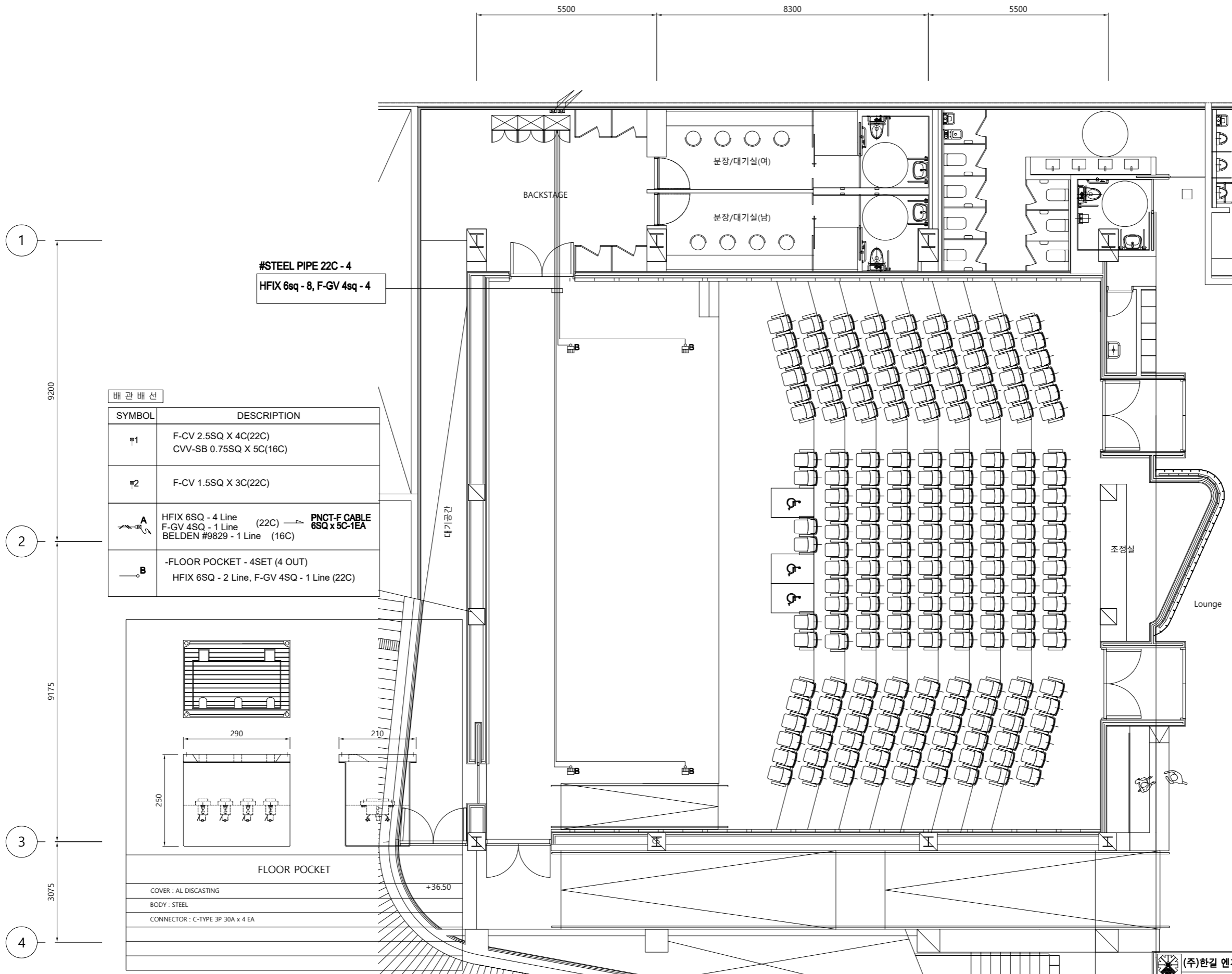
STEEL DUCT 200x100
CVV-SB 0.75SQ x 5C - 10 Line
BELDEN #9829 - 5 Line
F-CVV 1.5SQ x 10C - 1
LAN CABLE S-FTP/CAT5E - 1
CPEV 0.65SQ x 15Pr - 1 Line
CPEV 0.65SQ x 30Pr - 1 Line

배관 배선

SYMBOL	DESCRIPTION
#1	F-CV 2.5SQ X 4C(22C) CVV-SB 0.75SQ X 5C(16C)
#2	F-CV 1.5SQ X 3C(22C)
A	HFIX 6SQ - 4 Line (22C) → PNCT-F CABLE 6SQ x 5C-1EA F-GV 4SQ - 1 Line (16C) BELDEN #9829 - 1 Line (16C)
B	-FLOOR POCKET - 4SET (4 OUT) HFIX 6SQ - 2 Line, F-GV 4SQ - 1 Line (22C)

(주)한길 엔지니어링
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설계번호: 2020-11-04호, 2020년 11월 4일
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NO.	DATE	NOTE
REVISION		
CONSULTANTS		
DRAWING TITLE 무대장치 배관배선도-1		
DRAWN BY		
CHECKED BY	이지선	
APPROVED BY	이소연	
DATE	2020.12.	
SCALE	A1: 1/60, A3: 1/120	
DWG NO.	E - 513	
DWG FILE NO.		



NO.	DATE	NOTE

REVISION

CONSULTANTS

DRAWING TITLE
무대장치 배관배선도-2

DRAWN BY

CHECKED BY 이지선

APPROVED BY 이소연

DATE 2020.12.

SCALE A1: 1/60, A3: 1/120

DWG NO. E - 514

DWG FILE NO.

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<p>LED SPOT LIGHT (200W LED)</p> <p>DMX CH : 3 DMX CHANNEL</p> <p>LED : COB 200W white/warm white LED,50,000 hours, CRI>90</p> <p>DIMMING, Beam angle : ZOOM 25 - 50 DEGREE</p> <p>PowerCon in/out Daisy chain up to 6 fixture</p> <p>Housing : Aluminum, dimming : 0-100%</p> <p>FLIKER FREE, STROBE, 4 DIMMING CURVE,Control: DMX512 , Master/slave,Stand-alone</p> <p>CE and IP20, COOLING(Heat pipe heat dissipation)</p>	<p>LED MOVING WASH LIGHT(19 x 15W / GLW190Z)</p> <p>LAMP : 19 x 15W HIGH POWER LEDs</p> <p>PAN/TILT : 540°/630°, TILT 270°</p> <p>ZOOM ANGLE : 5°~70°</p> <p>COLOR SYSTEM : RGBW COLOR MIXING</p>	<p>LED PAR LIGHT (200W LED / EPAR HP)</p> <p>LED : 200W COB 3100K WHITE</p> <p>WEIGHT : 4.8KG</p> <p>CRI : 91</p> <p>BEAM ANGLE : 15°/30°</p> <p>CONTROL : DMX 512</p> <p>CONTROL CHANNEL : 1, 2, 5 ch</p>

<p>LED ELLIPSOID LIGHT (200W LED)</p> <p>MATERIAL: AL DIE CASTING</p> <p>LED QTY : LED 200W</p> <p>POWER : 275W</p> <p>ANGLE: 19°/26°/36°/50°</p> <p>PAINTING: BLACK</p>	<p>LIGHTING CONTROL CONSOLE (1024CH / PICCOLO II S24)</p> <p>1024 채널 DMX-Ethernet 컨트롤</p> <p>200 라이브러리 카테고리</p> <p>MIDI Port In/Out, HDMI Port, USB Port</p> <p>1 x LCD COLOR MONITOR</p> <p>1 x DMX Output, 2 x Ethernet Output</p> <p>SIZE : 530(넓이) x 370(깊이) x 95(높이)mm 이하</p>	<p>FLY DUCT (AL 120 x 70)</p> <p>MATERIAL : AL DIE CASTING</p> <p>CONSENT : C-TYPE 3P 30A</p> <p>PAINTING : BLACK</p>

NO.	DATE	NOTE
REVISION		
CONSULTANTS		
DRAWING TITLE		
LIGHTING EQUIPMENT		
DRAWN BY		
CHECKED BY	이지선	
APPROVED BY	이소연	
DATE	2020.12.	
SCALE	A1: NONE, A3: NONE	
DWG NO.	E - 515	
DWG FILE NO.		

