

ARCHITECT



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NOTES



REV.	DATE	DESCRIPTION	DRN	CHK	APP
2026.01.19	AS-BUILT	SJL KIM	HYL CHUNG	SL RYU	

PROJECT TITLE
SK Plug Hyverse 역화수송전선 신축공사

DRAWING TITLE
입상배관 LAY-OUT

CHECKED BY DATE APPROVED BY DATE

PROJECT ARCHITECT PROJECT MANAGER

ENGINEER DRAWN BY DATE

SCALE A1 : 150 A3 : 300

DRAWING NO. 25SK21-23-EL-04-11 REV. 4

공배관 CABLE SCHEDULE							
NO.	EQUIP NAME	CABLE SPEC.	FROM	TO	ELP (지중)	STEEL (노출)	
①	LH2 BOOSTER PUMP	F-CVS 4C X 6sqmm	PDP#1	P-200A	50C	36C	
②	LH2 HIGH PRESSURE PUMP	F-CVS 3 X 1C X 1.5sqmm, (GV125)	PDP#1	P-300A	125C	104C	
③	LH2 BOOSTER PUMP	F-CVS 4C X 6sqmm	PDP#2	P-200B	50C	36C	
④	LH2 HIGH PRESSURE PUMP	F-CVS 3 X 1C X 1.5sqmm, (GV125)	PDP#2	P-300B	125C	104C	
⑤	LH2 HIGH PRESSURE PUMP S/HEATER	F-CV 2C X 2.5sqmm	PDP#1	P-300A	40C	22C	
⑥	LH2 HIGH PRESSURE PUMP PTC SENSOR	F-CVS 10C X 1.5sqmm	PDP#1	P-300A	50C	36C	
⑦	LH2 HIGH PRESSURE PUMP S/HEATER	F-CV 2C X 2.5sqmm	PDP#2	P-300B	40C	22C	
⑧	LH2 HIGH PRESSURE PUMP PTC SENSOR	F-CVS 10C X 1.5sqmm	PDP#2	P-300B	50C	36C	
⑨	PUMP SKID SIGNAL	F-CVS 30C X 1.5sqmm	PLC PANEL	P/SKID-A/B J/B	50Cx6	42Cx6	
⑩	PUMP SKID SIGNAL(보절안전)	F-CVS 6C X 1.5sqmm	PLC PANEL	P/SKID-A/B J/B	40Cx2	28Cx2	
⑪	LH2 STORAGE TANK SIGNAL	F-CVS 30C X 1.5sqmm	PLC PANEL	TANK J/B	50Cx3	42Cx3	
⑫	V-17 VALVE	F-CVS 6C X 1.5sqmm	PLC PANEL	V-17 VALVE	40C	28C	
⑬	OFFLOAD HMI J/B 이더넷통신	UTP(CAT.6 S-FTP)	PLC PANEL	OFFLOAD HMI J/B	40C	28C	
⑭	OFFLOAD HMI J/B SIGNAL	F-CVS 20C X 1.5sqmm	PLC PANEL	OFFLOAD HMI J/B	50C	36C	
⑮	OFFLOAD PANEL SIGNAL	F-CVS 30C X 1.5sqmm	PLC PANEL	OFFLOAD J/B	50C	42C	
⑯	HC-50 IMMERSION HEATER	F-CV 3 X 1C X 1.5sqmm, (GV70)	PDP#1	HTR-503A	80C	70C	
⑰	PRE HEATER 1	F-CV 3 X 1C X 1.5sqmm, (GV25)	PDP#1	HTR-440AA	80C	70C	
⑱	PRE HEATER 2	F-CV 3 X 1C X 1.5sqmm, (GV25)	PDP#1	HTR-440AB	80C	70C	
㉠	POST HEATER	F-CV 3C X 2.5sqmm, (GV14)	PDP#1	HTR-450A	80C	70C	
㉡	CC COOLANT PUMP	F-CVS 3 X 1C X 1.5sqmm, (GV50)	PDP#1	P-500A	80C	70C	
㉢	DIS. COOLANT PUMP	F-CVS 4C X 6sqmm	PDP#1	P-510A	50C	36C	
㉣	HC-50 IMMERSION HEATER	F-CV 3 X 1C X 1.5sqmm, (GV70)	PDP#2	HTR-503B	80C	70C	
㉤	PRE HEATER 1	F-CV 3 X 1C X 1.5sqmm, (GV25)	PDP#2	HTR-440BA	80C	70C	
㉥	PRE HEATER 2	F-CV 3 X 1C X 1.5sqmm, (GV25)	PDP#2	HTR-440BB	80C	70C	
㉦	POST HEATER	F-CV 3C X 2.5sqmm, (GV14)	PDP#2	HTR-450B	80C	70C	
㉧	CC COOLANT PUMP	F-CVS 3 X 1C X 1.5sqmm, (GV50)	PDP#2	P-500B	80C	70C	
㉨	DIS. COOLANT PUMP	F-CVS 4C X 6sqmm	PDP#2	P-510B	50C	36C	
㉩	CC COOLANT PUMP S/HEATER	F-CV 2C X 2.5sqmm	PDP#1	P-500A	40C	22C	
㉪	CC COOLANT PUMP PTC SENSOR	F-CVS 20C X 1.5sqmm	PDP#1	P-500A	40C	22C	
㉫	DIS. COOLANT PUMP S/HEATER	F-CV 2C X 2.5sqmm	PDP#1	P-510A	40C	22C	
㉬	DIS. COOLANT PUMP PTC SENSOR	F-CVS 20C X 1.5sqmm	PDP#1	P-510A	40C	22C	
㉭	CC COOLANT PUMP S/HEATER	F-CV 2C X 2.5sqmm	PDP#2	P-500B	40C	22C	
㉮	CC COOLANT PUMP PTC SENSOR	F-CVS 20C X 1.5sqmm	PDP#2	P-500B	40C	22C	
㉯	DIS. COOLANT PUMP S/HEATER	F-CV 2C X 2.5sqmm	PDP#2	P-510B	40C	22C	
㉺	DIS. COOLANT PUMP PTC SENSOR	F-CVS 20C X 1.5sqmm	PDP#2	P-510B	40C	22C	
㉻	HC50 SKID SIGNAL	F-CVS 30C X 1.5sqmm	PLC PANEL	HC50-A/B J/B	50Cx10	42Cx10	
㉼	PRIORITY PANEL SIGNAL	F-CVS 30C X 1.5sqmm	PLC PANEL	P/PANEL-A/B J/B	50Cx6	42Cx6	
㉽	HTR-410,440,450A/B Temperature Sensor	F-CVS 15C X 1.5sqmm	PLC PANEL	HC50-A/B J/B	40Cx2	28Cx2	
㉾	HTR-410,440,450A/B Temperature Sensor	F-CVS 30C X 1.5sqmm	PLC PANEL	HC50-A/B J/B	50Cx2	36Cx2	
㊱	HTR-503A/B Temperature Sensor	F-CVS 15C X 1.5sqmm	PLC PANEL	HC50-A/B J/B	40Cx2	28Cx2	
㊲	GD(가스관 지기)	F-CVS 3C X 1.5sqmm	PLC PANEL	GD	40Cx12	28Cx12	
㊳	FD(화물관 지기)	F-CVS 3C X 1.5sqmm	PLC PANEL	FD	40Cx2	28Cx2	
㊴	ESD SWITCH	F-CVS 4C X 1.5sqmm	PLC PANEL	ESD	40Cx2	28Cx2	
㊵	GROUND	F-GV 16sqmm		외관		22Cx12	
㊶	GROUND	F-GV 16sqmm		외관		22Cx19	
㊷	GROUND	F-GV 16sqmm		외관 환기		22Cx2	
㊸	GROUND	F-GV 16sqmm		VENT		22Cx2	
㊹	GROUND	F-GV 16sqmm		트레일러 접지일		22C	
㊺	SPARE(공배관)		PLC PANEL		40Cx6	28Cx6	
㊻	PRE HEATER 1,2 & POST HEATER A & HEATER	F-CV 2C X 2.5sqmm	PDP #1	HC50-A-2 J/B	40C	28C	
㊼	PRE HEATER 1,2 & POST HEATER B & HEATER	F-CV 2C X 2.5sqmm	PDP #2	HC50-B-2 J/B	40C	28C	

충전기용 CABLE SCHEDULE							
NO.	EQUIP NAME	CABLE SPEC.	FROM	TO	ELP (지중)	STEEL (노출)	
㉠	DISPENSER POWER	F-CV 3C X 2.5sqmm	PLC PANEL	DISPENSER J/B	40Cx4	28Cx4	
㉡	DISPENSER SIGNAL(보절안전)	F-CVS 10C X 1.5sqmm	PLC PANEL	DISPENSER J/B	40Cx4	28Cx4	
㉢	DISPENSER SIGNAL(ANALOG)	F-CVS 1.5sq X 6C X 1L	PLC PANEL	DISPENSER J/B	40Cx4	28Cx4	
㉣	DISPENSER SIGNAL	F-CVS 10C X 1.5sqmm	PLC PANEL	DISPENSER J/B	40Cx4	28Cx4	
㉤	DATA RS485 communication	AWG#20 X 1P	PLC PANEL	DISPENSER J/B	40Cx4	28Cx4	
㉥	IR RS485 communication	AWG#20 X 2P X 1L	PLC PANEL	DISPENSER J/B	40Cx4	28Cx4	
㉦	IR communication(NOZZLE)	AWG#20 X 2P X 1L	PLC PANEL	NOZZLE	40Cx4	28Cx4	
㉧	GD(DISPENSER)	F-CVS 3C X 1.5sqmm	PLC PANEL	GD	40Cx4	28Cx4	
㉨	FD(DISPENSER AREA)	F-CVS 3C X 1.5sqmm	PLC PANEL	FD	40Cx4	28Cx4	
㉩	GROUND	F-GV 6sqmm		외관		22Cx8	
㉪	GROUND	F-GV 6sqmm		외관 환기		22Cx4	
㉫	GROUND	F-GV 6sqmm		충전차량 접지일		22Cx4	
㉬	POS communication	UL2464#20.2C+22.4C	ODT PANEL	DISPENSER J/B	40Cx4	28Cx8	
㉭	ODT power & 통신	UL2464#20.2C+22.4C	ODT PANEL	ODT PANEL	40Cx4	28Cx4	
㉮	SPARE(공배관)		PLC PANEL		40Cx8	28Cx8	
㉯	ACV 밸브리프트	F-CVS 4C X 1.5sqmm	PLC PANEL	DISPENSER PTP #2	40Cx4	28Cx4	

유발전기용 CABLE SCHEDULE

NO.	EQUIP NAME	CABLE SPEC.	FROM	TO	ELP (지중)	STEEL (노출)	
①	PACKAGED CHILLER POWER	F-CV 3 X 1C X 1.5sqmm, (GV70)	PDP#0	CH-560	80C	70C	
②	PACKAGED CHILLER SIGNAL	F-CVS 10C X 1.5sqmm	PLC PANEL	CH-560	50C	36C	
③	NITROGEN GENERATOR POWER	F-CV 4C X 1.5sqmm	PDP#0	C-900A	50C	42C	
④	NITROGEN GENERATOR SIGNAL	F-CVS 10C X 1.5sqmm	PLC PANEL	C-900A	50C	36C	
⑤	SPARE(공배관)-COM (대리)		PLC PANEL	C-900A	40C	22C	
⑥	UTILITY ROOM J/B	F-CVS 12C X 1.5sqmm	PLC PANEL	C-900A&J/B	50C	36C	
⑦	GROUND	F-GV 16sqmm		외관		22Cx2	
⑧	SPARE(공배관)		PLC PANEL		40Cx2	28Cx2	

수변전실 CABLE SCHEDULE

NO.	EQUIP NAME	CABLE SPEC.	FROM	TO	ELP (지중)	STEEL (노출)	
①	PDP#1 MAIN POWER	F-CV 3 X 1C X 1.5sqmm X 4, (GV25-4)	수변전반	PDP#1	125Cx4		
②	PDP#2 MAIN POWER	F-CV 3 X 1C X 1.5sqmm X 4, (GV25-4)	수변전반	PDP#2	125Cx4		
③	PDP#0 MAIN POWER	F-CV 4 X 1C X 1.5sqmm X 2, (GV70-2)	수변전반	PDP#0	125Cx2		



* 우수관(1600MM)

입상배관 LAY-OUT

기존건축물
사무동