



 **BINA EPC Contractor Co.**
(Executor of Oil, Gas, Petrochemical & Power Industries)

Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.

**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**

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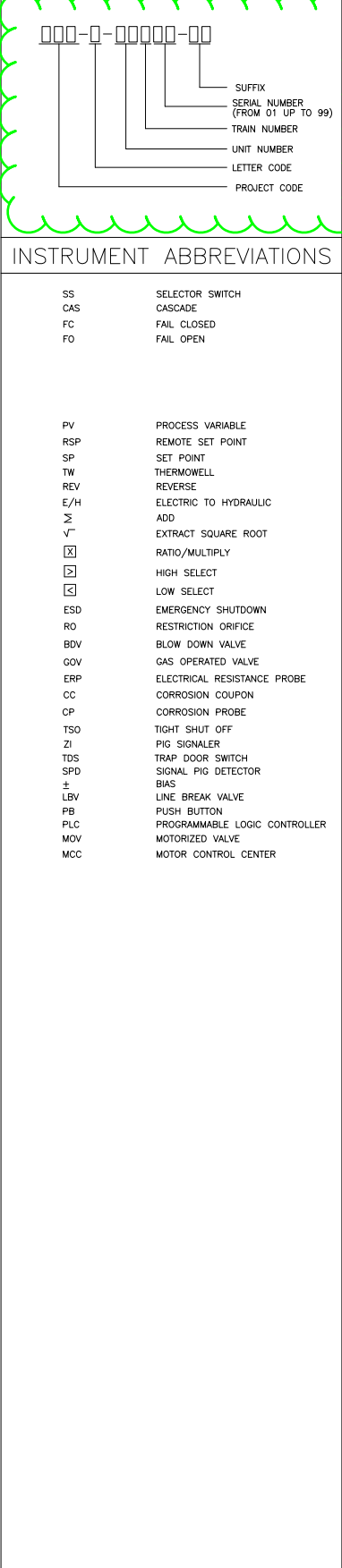
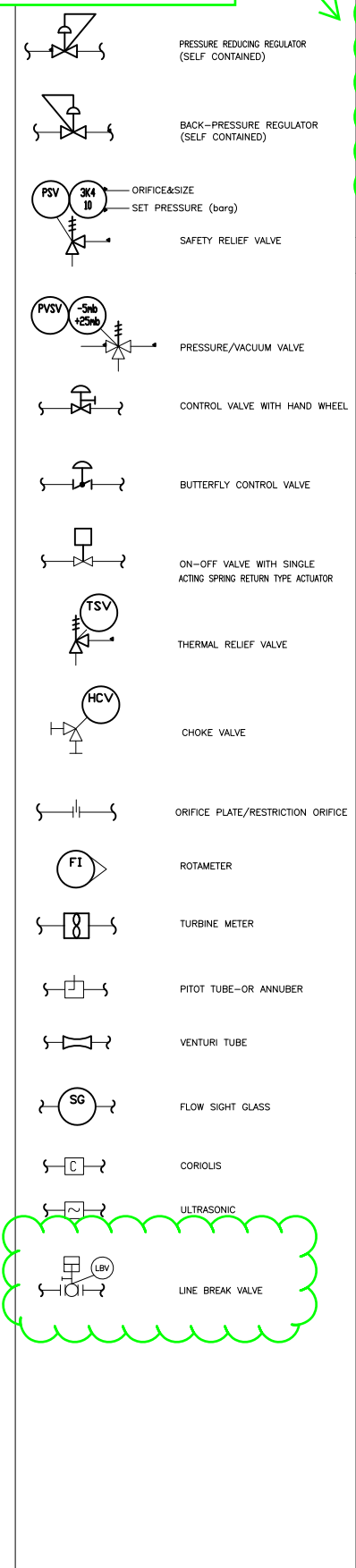
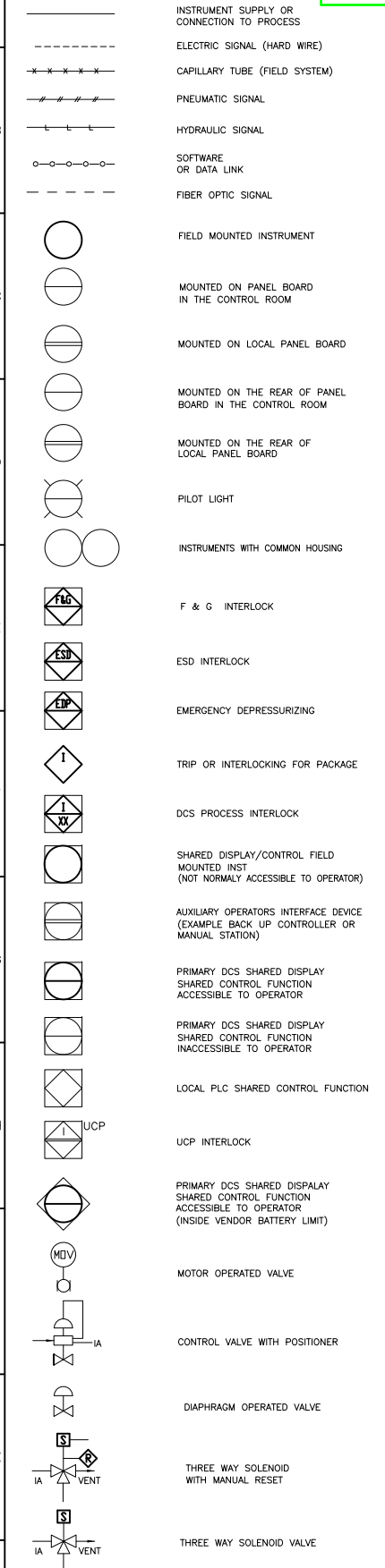
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VALVE (NORMALLY OPEN) GATE VALVE (NORMALLY CLOSED) GLOBE VALVE (NORMALLY OPEN) GLOBE VALVE (NORMALLY CLOSED) BALL VALVE (NORMALLY OPEN) BALL VALVE (NORMALLY CLOSED) NEEDLE VALVE ANGLE VALVE CHECK VALVE CALIBRATION POT Y-TYPE STRAINER T-TYPE STRAINER TEMPORARY STRAINER BASKET STRAINER FLAME ARRESTOR (GENERAL) VORTEX BREAKER TO/FROM MAIN PROCESS LINE FROM/TO BL AIR FILTER INSULATING FLANGE ISOLATION JOINT CLASS BREAK VENT TO ATMOSPHERE SCREENED VENT DRAIN FUNNEL EXPANSION JOINT PULSATION DAMPENERS HOSE CONNECTION BARRED TEE EXHAUST HEAD AND SILENCER ANCHOR BLOCK TRAP SAMPLE CONNECTION SPECIAL ITEM TIE IN	<table border="1"> <tr> <th>AG</th> <td>ABOVE GROUND</td> </tr> <tr> <th>ATM</th> <td>ATMOSPHERE</td> </tr> <tr> <th>BL</th> <td>BATTERY LIMIT</td> </tr> <tr> <th>DBB</th> <td>DOUBLE BLOCK & BLEED</td> </tr> <tr> <th>FB</th> <td>FULL BORE</td> </tr> <tr> <th>FV</th> <td>FULL VACUUM</td> </tr> <tr> <th>ID/OD</th> <td>INSIDE/OUTSIDE DIAMETER</td> </tr> <tr> <th>LC</th> <td>LOCKED 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Applicable to all pages. It seems the "PROJECT CODE" is not related to this project. Then this section shall be revised totally. All items and sections shall be revised in accordance with the requirement of this project and all items related to other project shall be eliminated. Applicable to all pages.
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This coding is not applicable to this project. Kindly revise this item.

INSTRUMENT

INSTRUMENT CODE

INSTRUMENT TYPICAL CONTROL SCHEMATICS



INSTRUMENT ABBREVIATIONS

SS	SELECTOR SWITCH
CAS	CASCADE
FC	FAIL CLOSED
FO	FAIL OPEN
PV	PROCESS VARIABLE
RSP	REMOTE SET POINT
SP	SET POINT
TW	THERMOWELL
REV	REVERSE
E/H	ELECTRIC TO HYDRAULIC
ADD	ADD
√	EXTRACT SQUARE ROOT
X	RATIO/MULTIPLY
□	HIGH SELECT
□	LOW SELECT
ESD	EMERGENCY SHUTDOWN
RO	RESTRICTION ORIFICE
BDV	BLOW DOWN VALVE
GOV	GAS OPERATED VALVE
ERP	ELECTRICAL RESISTANCE PROBE
CC	CORROSION COUPON
CP	CORROSION PROBE
TSO	TIGHT SHUT OFF
ZI	PIG SIGNALER
TDS	TRAP DOOR SWITCH
SPD	SIGNAL PIG DETECTOR
±	BIAS
LBV	LINE BREAK VALVE
PB	PUSH BUTTON
PLC	PROGRAMMABLE LOGIC CONTROLLER
MOV	MOTORIZED VALVE
MCC	MOTOR CONTROL CENTER





FIRST LETTER	INITIATING OR MEASURING VARIABLE	CONTROLLERS				DEVICES				ALARM DEVICES SHUT DOWN				TRANSMITTERS				SWITCH								
		RECORDING	INDICATING	BLIND	SELF-ACTIVATED REGULATOR WALK	RECORDER	INDICATOR	HIGH	LOW	COMB.	VERY HIGH	VERY LOW	LIGHT	BUZZER	RECORDING INDICATION BLIND	RELAYS, SOLENOIDS COMPUTING DEVICES	PRIMARY ELEMENT	WELL OR PROBE	VIEWING DEVICE GLASS	SAFETY DEVICE	FINAL ELEMENT	STATUS	HIGH	LOW	VERY HIGH	VERY LOW
A	ANALYSIS	ARC	AIC	AC		AR	AI	AAH	AAL		AAHH	AALL			AT	AY	AE	AP					ASH	ASL	ASHH	ASLL
B	BURNERS/COMBUSTION	BRC	BIC	BC		BR	BI	BAH	BAL		BAHH	BALL			BT	BY	BE									
C	DUTY CALCULATION							CAH																		
E	VOLTAGE							EI								EY					ESDV	ESH	ESL	ESHH	ESLL	
F	FLOW RATE	FRC	FIC	FC		FR	FI	FAH	FAL		FAHH	FALL			FT	FY	FE				FG	FV	FSH	FSL	FSHH	FSLL
FQ	FLOW QUANTITY	FQRC	FQIC	FQC		FQR	FQI	FQAH	FQAL						FQIT	FQOT	FQY	FQE								
FF	FLOW RATIO	FFRC	FFIC	FFC		FFR	FFI	FFAH	FFAL														FFSH	FFSL	FFSHH	FFSLL
H	HAND		HIC	HC										HS		HY						HV	HSH	HSL	HSHH	HSLL
I	CURRENT		IIC					II	IA						IT											
J	POWER					JR	JI								JT											
K	TIME															KY										
L	LEVEL	LRC	LIC	LC	LCV	LR	LI	LAH	LAL		LAHH	LALL			LT	LY					LG	LV	LSH	LSL	LSHH	LSLL
P	PRESSURE/VACUUM	PRC	PIC	PC	PCV	PR	PI	PAH	PAL		PAHH	PALL			PT	PY	PP	PI	PSV	PV		PP	PSH	PSL	PSHH	PSLL
PD	PRESSURE DIFFERENTIAL	PDRC	PDIC	PDC	PDCV	PDR	PDI	PDH	PDAL		PDHH	PDALL			PDT	PDY						PDV	PDGH	PDGL	PDGHH	PDGLL
Q	QUANTITY														QT											
S	SPEED/FREQUENCY	SRC	SIC	SC		SR	SI	SAH	SAL		SAHH	SALL			ST	SY	SE									
T	TEMPERATURE	TRC	TIC	TC	TCV	TR	TI	TAH	TAL		TAHH	TALL			TT	TY	TE	TW	TI			TV	TSH	TSL	TSHH	TSLL
TD	TEMPERATURE DIFFERENTIAL	TDRC	TDIC	TDC		TDR	TDI	TDH	TDAL		TDHH	TDALL			TDY							TDV	TDGH	TDGL	TDGHH	TDGLL
U	MULTIVARIABLE																									
V	VIBRATION/MACHINERY ANALYSIS					VR	VI	VAH	VAL		VAHH	VALL			VT	VY	VE						VSH	VSL	VSHH	VSLL
W	WEIGHT/FORCE	WRC	WIC	WC		WR	WI	WAH	WAL		WAHH	WALL			WT	WE										
X	UNCLASSIFIED	XRC	XIC	XC		XR	XI	XAH	XAL		XAHH	XALL	XL	XS		XY	XE						XV	XL	XSH	XSL
Z	POSITION/DIMENSION REQUEST CONSENT					ZI	ZLO	ZLC	ZAL		ZAHH	ZALL			ZT	ZY							ZSH	ZSL	ZSHH	ZSLL

14	15	16
REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

NOTES :

KEY PLAN :

RO	20-Feb-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
CLIENT:	 <p>پتروشیمی توسعه پارک صنعتی گوهر الماس</p>		CONSULTING ENGINEER:			
	 <p>BINA EPC CONTRACTOR CO.</p>					
VENDOR:	 <p>ENER TEKNOLOJI</p>		 <p>HAMOON RAH</p>			
PROJECT:	STYRENE PARK OFFSITE					
DRAWING TITLE:	P&ID					
DRAWING NO.	REV.	SIZE	SCALE	SHEET		
E0127-HRC-VD-PR-PID-003	RO	A3	NTS	4 of 6		

There is discrepancy between this design pressure and the reported value in the "Process Duty Specification For Activated Carbon Package" document. Kindly check and revise

Rated capacity shall be added

The "P&ID For Styrene Storage Tank" shall be added

PK-0001-F1 AIR CARBON FILTER	
TYPE	: ACTIVATED CARBON
ID x TT	: 2100 x 5300 mm
DP INT/EXT	: 0.2 barg / -0.1 barg
DT	: 85.0 °C
INSULATION	: No
MATERIAL	: CS

PK-0001-F2 AIR AFTER FILTER	
TYPE	: CARTRIDGE
ID x TT	: 441 x 1500 mm
DP INT/EXT	: 0.2 barg / -0.1 barg
DT	: 85.0 °C
INSULATION	: No
MATERIAL	: CS

General Comments:
 1. For all valves, size and pressure class shall be indicated.
 2. All numbering shall be in accordance with represented numbering procedure indicated in symbol & legend section.
 3. All comments applicable to the next page.

REFERENCE DRAWING	DWG NO.	REV.
PFD	E10127-HRC-VD-PR-PFD-002	RO

LEGENDS :

NOTES :

- The package is skid mounted

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
RO	20-Feb-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO

CLIENT:  **پتروشیمی توسعه پارک**
 صنعتی گوهر الماس

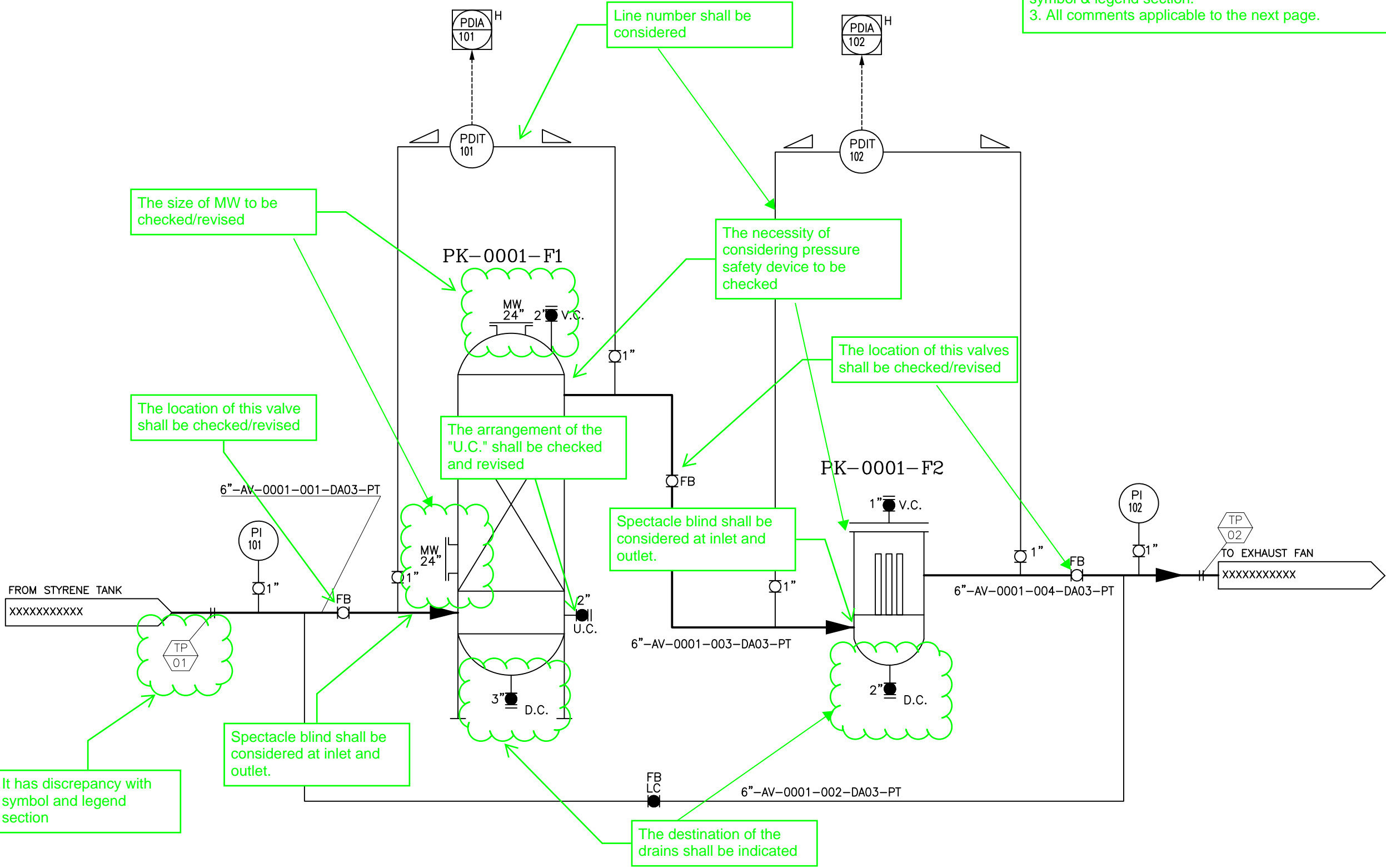
CONSULTING ENGINEER:  **BINA EPC CONTRACTOR CO.**

VENDOR:  **ENER TEKNOLOJI**  **HAMOON RAH**

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **P&ID**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E10127-HRC-VD-PR-PID-003	RO	A3	NTS	5 of 6



The size of MW to be checked/revise

Line number shall be considered

The necessity of considering pressure safety device to be checked

The location of this valves shall be checked/revise

The location of this valve shall be checked/revise

The arrangement of the "U.C." shall be checked and revised

Spectacle blind shall be considered at inlet and outlet.

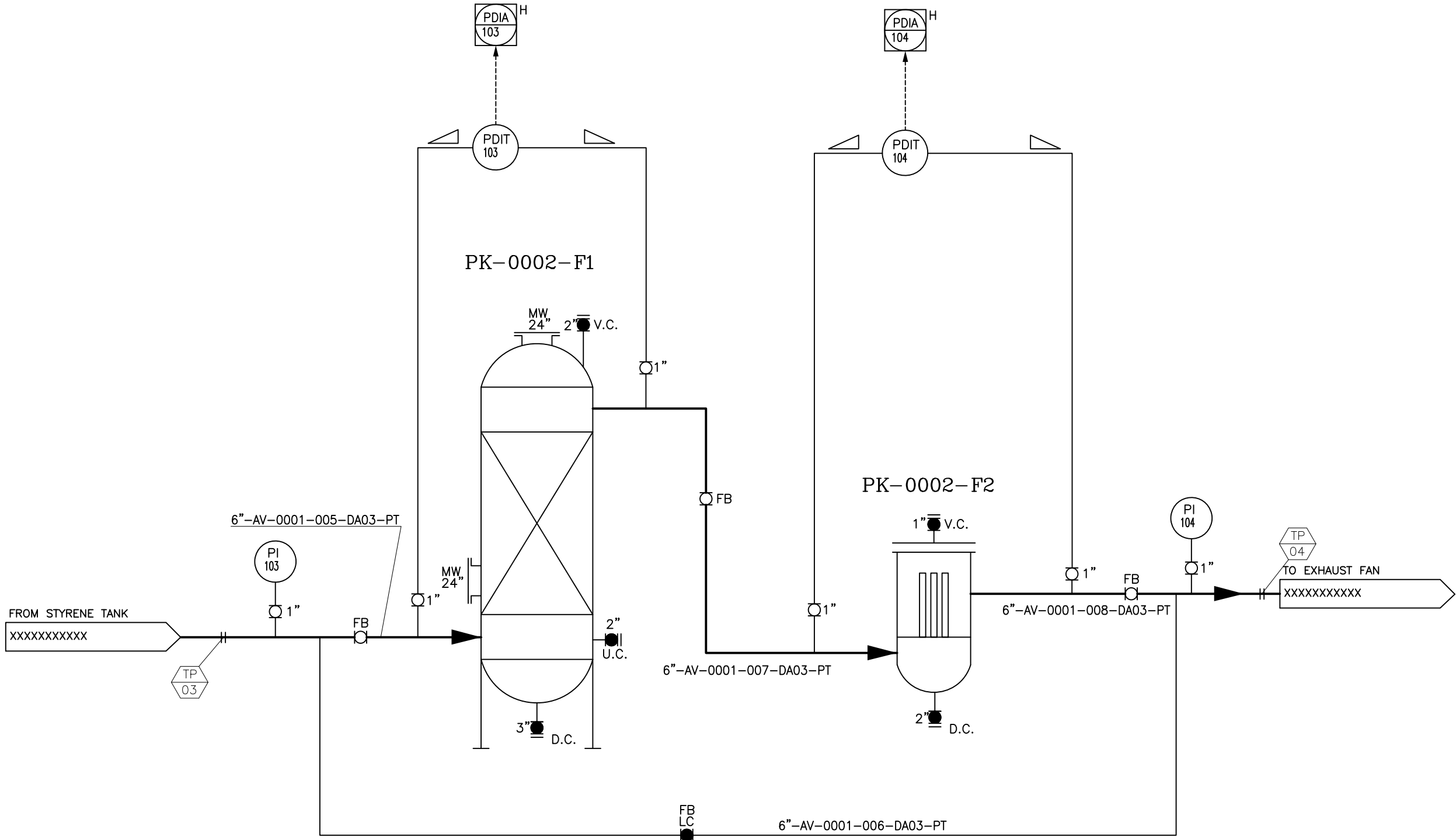
It has discrepancy with symbol and legend section

Spectacle blind shall be considered at inlet and outlet.

The destination of the drains shall be indicated

PK-0002-F1 AIR CARBON FILTER	
TYPE	: ACTIVATED CARBON
ID x TT	: 2100 x 5300 mm
DP INT/EXT	: 0.2 barg / -0.1 barg
DT	: 85.0 °C
INSULATION	: No
MATERIAL	: CS

PK-0002-F2 AIR AFTER FILTER	
TYPE	: CARTRIDGE
ID x TT	: 441 x 1500 mm
DP INT/EXT	: 0.2 barg / -0.1 barg
DT	: 85.0 °C
INSULATION	: No
MATERIAL	: CS



REFERENCE DRAWING	DWG NO.	REV.
PFD	EI0127-HRC-VD-PR-PFD-002	RO


LEGENDS :


NOTES :

- The package is skid mounted

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
RO	20-Feb-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO

CLIENT:  **پتروشیمی توسعه پارک**
صنعتی گوهر الماس

CONSULTING ENGINEER:  **BINA EPC CONTRACTOR CO.**

VENDOR:  **ENER TEKNOLOJI**  **HAMOON RAH**

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **P&ID**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI0127-HRC-VD-PR-PID-003	RO	A3	NTS	6 of 6