



Toase-e Park Sanati Gohar Ofoh
Petrochemical Co.
**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Piping And Instrumentation Diagram (P&ID)

Document No.: EI027-HSE-VD – PR– PID– 002-R2

Rev. R2

Page 1 of 9

STYRENE PARK OFFSITE

Document Title:

Piping And Instrumentation Diagram (P&ID)

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	07-11-2024	IFA	F.SH	M.O	A.M
R1	27-08-2024	IFA	F.SH	M.O	A.M
R0	30-06-2024	IFA	F.SH	M.O	A.M



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Page 2 of 9

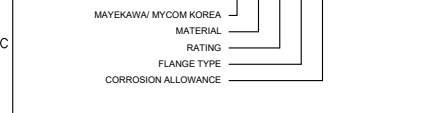
REVISION RECORD SHEET

Page Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X	X	X					41							
2	X	X	X					42							
3	X	X	X					43							
4	X	X	X					44							
5	X	X	X					45							
6	X	X	X					46							
7	X	X	X					47							
8	X	X	X					48							
9	X	X	X					49							
10								50							
11								51							
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INSTRUMENT NUMBERING
EACH INSTRUMENT HAS BEEN NAMED AS SHOWN BELOW IN THE DOCUMENTATION:
TAG-RU0001X-AA
WHERE:
X : ONE DIGITS, WHICH IDENTIFY THE REFRIGERANT PACKAGE TRAIN (A OR B)
TAG : INSTRUMENT TAG (ATTACHMENT: P&ID SYMBOLS)
AA : TWO DIGITS, WHICH IS THE PROGRESSIVE ITEM NUMBER IN THE UNIT FROM 01 TO 99.

MOTOR INSTRUMENT NUMBERING
IF AN INSTRUMENT OR A FUNCTION IS INSTALLED ON AN ELECTRIC DRIVER OF A MACHINERY WHICH NAME IS TAG-RU0001X-AA, THE INSTRUMENT NAME IS: TAG-RU0001X-AA

PIPE LINE NUMBERING
DN-MP-RU0001XX-MLR1-C
WHERE:
DN : NOMINAL DIAMETER IN INCH
MP : FLUID CODE
RU0001 : PACKAGE NAME
Y : PACKAGE TRAIN (A OR B)
XX : LETTER WHICH IDENTIFIES THE LINE NUMBER

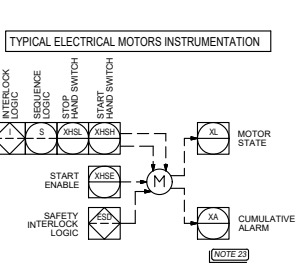


Rating: 1=150 CLASS, 3=300 CLASS, 6=600 CLASS, 9=900 CLASS, 15=1500 CLASS
MATERIAL: C: CARBON STEEL, L: LOW TEMPERATURE CARBON STEEL, S: STAINLESS STEEL, I: INSTRUMENT AIR STAINLESS STEEL
FLANGE TYPE: R = RAISED FACE, F = FLAT FACE, J = RING TYPE JOINT
CORROSION ALLOWANCE: 0 = 0 mm, 1 = 1.5 mm, 2 = 3.0 mm

FLUID CODE:	DESCRIPTION
AV	Atmospheric Vent
CWS	Cooling Water Supply
CWR	Cooling Water Return
FWG	Flare/Vent gas
IA	Instrument Air
OI	Hydraulic Oil
ST	Styrene
PR	Propane

HARDWARE		SOFTWARE		Instrument line and function symbols	
Symbol	Denomination	Symbol	Denomination	Symbol	Denomination
[Symbol]	Locally mounted	[Symbol]	Field mounted, shared display, shared control	[Symbol]	Connection to process
[Symbol]	Mounted on back panel	[Symbol]	Function normally inaccessible to operator and installed in main control room	[Symbol]	Pneumatic signal
[Symbol]	Mounted in main control room	[Symbol]	Function normally accessible to operator and installed in main control room	[Symbol]	Electric signal
[Symbol]	Mounted on back panel in auxiliary control room or on local panel	[Symbol]	Function normally inaccessible to operator and installed in auxiliary control room or on local panel	[Symbol]	Capillary tubing (FILLED SYSTEM)
[Symbol]	Mounted on panel in auxiliary control room or on local panel	[Symbol]	Function normally accessible to operator and installed in auxiliary control room or on local panel	[Symbol]	Internal system link (SOFTWARE / DATA LINK)
[Symbol]	Filled relay	[Symbol]	Software interlock logic normally inaccessible to operator and installed in main control room	[Symbol]	Electromagnetic or sonic signal
[Symbol]	Back panel relay in auxiliary control room or on local panel	[Symbol]	Sequential logic function	[Symbol]	ELECTRICAL SIGNAL FIELDBUS TECHNOLOGY
[Symbol]	Mounted on back panel	[Symbol]	Safety interlock logic	[Symbol]	Summing function
[Symbol]	Star indicated that the instrument is supplied by package manufacturer	[Symbol]	Package Control System PLC	[Symbol]	Difference function
[Symbol]	SIGNAL LIGHT	[Symbol]		[Symbol]	Proportional function
[Symbol]	Foundation Fieldbus	[Symbol]		[Symbol]	Multiplying function
[Symbol]	Differential between two value	[Symbol]		[Symbol]	Dividing function
[Symbol]		[Symbol]		[Symbol]	High selecting function
[Symbol]		[Symbol]		[Symbol]	Low selecting function

INSULATION AND TRACING CODES
A : ACOUSTIC INSULATION
H : HOT INSULATION
C : COLD INSULATION
P : PERSONNEL PROTECTION (FROM 60°C AND ABOVE)
FS : FIRE SAFE PROTECTION
T : STEAM TRACING
TW : HOT OIL TRACING
TC : HOT WATER TRACING
E : ELECTRICAL TRACING
JT : TOTAL JACKETED LINE
JR : REDUCED JACKETED LINE
JP : PARTIAL JACKETED LINE
F : ANTI FREEZING
D : DUAL INSULATION
B : SOLAR PROTECTION
AC : COLD AND ACOUSTIC INSULATION
AH : HOT AND ACOUSTIC INSULATION
N : NOT INSULATED
W : TAPE WRAPPED (UNDERGROUND LINES)



Piping and relevant components		Instrument Identification	
Symbol	Denomination	Symbol	Denomination
[Symbol]	Main process	[Symbol]	Female Connection
[Symbol]	Secondary process	[Symbol]	Male Connection
[Symbol]	Utility	[Symbol]	Flange Connection
[Symbol]	Jacket	[Symbol]	Manhole
[Symbol]	Electrical Heat Tracing (Insulated)	[Symbol]	Female nitrogen service
[Symbol]	Hydraulic System Tubing (1/2" SS)	[Symbol]	Male nitrogen service
[Symbol]	Electrical Heat Tracing Tubing (Insulated)	[Symbol]	Cone Type strainer
[Symbol]	Blind flange	[Symbol]	Temporary strainer
[Symbol]	Reducer (Bottom flat)	[Symbol]	Y-Strainer
[Symbol]	Reducer (Top flat)	[Symbol]	T-Strainer
[Symbol]	Reducer (Concentric)	[Symbol]	Ring space
[Symbol]	Sample connection	[Symbol]	Ring spacer
[Symbol]	Sample Point	[Symbol]	Process vent and drains
[Symbol]	Gate or generic inline valve	[Symbol]	With gate or generic valve
[Symbol]	Check Valve	[Symbol]	Ring spacer
[Symbol]	Stop Check Valve	[Symbol]	With flame trap
[Symbol]	Globe or disc Valve	[Symbol]	Discharge to atmosphere
[Symbol]	Ball Valve (FULL BORE)	[Symbol]	With dumper or silencer
[Symbol]	Ball Valve (REDUCED BORE)	[Symbol]	Downward
[Symbol]	Three-way Valve	[Symbol]	Upward
[Symbol]	Spring Valve	[Symbol]	Lateral
[Symbol]		[Symbol]	Expansion joint
[Symbol]		[Symbol]	Locked Close Valve
[Symbol]		[Symbol]	Locked Open Valve
[Symbol]		[Symbol]	Normally open valve
[Symbol]		[Symbol]	Normally closed valve
[Symbol]		[Symbol]	Car seal open valve
[Symbol]		[Symbol]	Car seal closed valve
[Symbol]		[Symbol]	Tight Shut Off Valve
[Symbol]		[Symbol]	Sight glass
[Symbol]		[Symbol]	Pipe line class change

Instrument Identification	
Symbol	Denomination
[Symbol]	Instrument tap on line
[Symbol]	Pressure tap with manifold valve
[Symbol]	Pressure tap with generic valves
[Symbol]	Pressure tap diaphragm type
[Symbol]	Fixed restriction orifice
[Symbol]	Primary flow element with transmitter
[Symbol]	Automatic regulator with integral flow indication
[Symbol]	Handwheel for automatic valves (valve with actuators)
[Symbol]	Diaphragm, spring-opposed
[Symbol]	spring-opposed single-acting
[Symbol]	Cylinder, spring-opposed double-acting
[Symbol]	Rotary motor
[Symbol]	Solenoid
[Symbol]	Solenoid valve with manual reset
[Symbol]	Hand actuator
[Symbol]	Butterfly Valve
[Symbol]	Pressure relief or safety valve
[Symbol]	Temperature relief or safety valve
[Symbol]	Two-Way Valve Fall Open
[Symbol]	Two-Way Valve Fall Close
[Symbol]	Two-Way valve fail locked
[Symbol]	Two-way valve fail indeterminate
[Symbol]	three-way valve fail open to path A-C
[Symbol]	MAGNETIC LEVEL GAUGE
[Symbol]	LEVEL TRANSMITTER WITH DIAPHRAGM SEPARATOR WITH EXTENSION
[Symbol]	Open
[Symbol]	Close

REFERENCE DRAWING	DWG NO.	REV.

NOTES :
1- AN ADDITIONAL "X" AFTER THE INSTRUMENT CODE MEANS THAT INSTRUMENT BELONGS TO ESD SYSTEM.
2- FOR TEMPERATURE MEASURING INSTRUMENTS WHOSE SIGNAL HAS TO BE ROUTED TO A REMOTE SYSTEM (DCS, PLC), THE TRANSMITTER HAS BEEN ALWAYS INDICATED EVEN IF IT IS STRICTLY REQUIRED ONLY FOR CONTROL LOOPS, PROCESS INTERLOCKS AND SAFETY INTERLOCKS, IN CASE OF TEMPERATURE INDICATOR.
3- IN ALL THE P&ID, PACKAGES ARE REPRESENTED IN A SIMPLIFIED WAY. IN GENERAL, WHAT IS REPRESENTED IS LICENSOR MINIMUM REQUIREMENT. THE CHARACTERISTICS OF EACH PACKAGE ARE DESCRIBED IN THE RELEVANT DATA SHEET. IN ANY CASE, PACKAGES VENDORS SHALL SUPPLY FINAL P&ID.
4- FOR PIPES CARRYING THE FOLLOWING FLUIDS :
- EB (ETHYLENE)
- AN (ACRYLONITRILE)
- CD (ORGANIC LIQUID CONDENSATE)
- ST (STYRENE)
- BD (BUTADIENE)
THE NUMBER OF FLANGES SHALL BE MINIMIZED.
5- INSTALL DRAINS ON THE PIPING CIRCUITS (OR SINGLE LINES) LOWEST POINTS AND VENTS IN THE PIPING CIRCUITS (OR SINGLE LINES) HIGHEST POINTS.
6- MINIMIZE FLANGED COUPLINGS ON HOT/THERMAL OIL (HO) MAIN DISTRIBUTION HEADER LINES. FOR THERMAL OIL (HO, CO) LINES INSTALLED ON PIPE RACKS, FLANGED COUPLINGS SHALL BE EQUIPPED WITH SAFE-RING OR EQUIVALENT FLANGES JOINTS SPRAY PROTECTION.
7- WHEN AN INTERLOCK OR A SEQUENCE REQUIRES TO PERFORM AN ACTION, THE INTERLOCK OR SEQUENCE ITSELF SHALL VERIFY IF THE ACTION HAS BEEN DONE. THIS HAS TO BE CONSIDERED AS STANDARD INSTALLATION AND IS NOT REPRESENTED ON P&ID.
8- IN GENERAL ON P&ID SEQUENCES CHECK PHASE IS NOT REPRESENTED EXCEPT FOR: - RUBBER PLANT: REACTION SECTION
9- THE SIZE OF CONTROL VALVES BY-PASS VALVES WILL BE DEFINED / CONFIRMED ACCORDING TO THE FINAL SIZE OF CONTROL VALVES.
10- IN CASE DRIP RING IS INDICATED ON P&ID, IT SHALL BE SUPPLIED BY PIPING VENDOR. FOR DRIP RING TYPICAL SEE DOC. J-80/85/88-IN-STD-1500-0001
11- THE INSTALLATION OF ALL PI-PIT-TT REPRESENTED ON P&ID IS INDICATED IN THE TYPICAL.
12- ALL SIGNALS FROM PLC TO ESD SHALL BE HARD-WIRED (NON-DATALINK)
13- ALL SIGNALS FROM UNIT 88 INSTRUMENTS SHALL BE CONNECTED TO DCS / FCS / ESD OF RUBBER PLANT.
14- ALL VALVES ON PSV INLET / OUTLET LINES SHALL BE FULL BORE TYPE. GATE VALVE ON FLARE LINE TO BE INSTALLED WITH STEM IN HORIZONTAL POSITION.
15- FOR SPECIAL PIPING ITEMS LIST REFER TO DOC. J-85-PI-LSC-8501.
16- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
17- ELEVATION SHOWN ARE ABOVE THE HIGHEST POINT OF PAVING.
18- ALL VALVES ARE LINE SIZE UNLESS OTHERWISE SHOWN.
19- THIS FLOW DIAGRAM IS DIAGRAMMATIC ONLY. DESIGN OF PIPE LINE MUST BE INVESTIGATED FOR VENTING OF GAS AND VAPOR POCKETS IN PIPING AND EQUIPMENT, LOW POINTS IN PIPING, PUMPS AND EQUIPMENT FOR DRAINING AND ACCESSIBILITY OF ALL VALVES, FLANGES AND INSTRUMENTS INCLUDING THERMOCOUPLES ETC.
20- ALL ELECTRONIC INSTRUMENTATION SHALL BE INSTALLED AWAY FROM STEAM LINES AND HIGH TEMPERATURE HEAT SOURCE.
21- SAMPLE TAPING FOR GAS SAMPLES SHALL BE FROM THE TOP OF THE MAIN LINE. FOR LIQUID SAMPLES TAPPING SHALL BE DONE FROM THE SIDE.
22- EXCEPT FOR PROCESS REASONS, LOW POINT DRAINS AND HIGH POINT VENT ARE NOT SHOWN.
23- CABLING BETWEEN DCS REMOTE I/O CARDS IN MCC CUBICLE CABINET AND MAIN CONTROL ROOM WILL BE VIA SOFT LINK EXCEPT FOR ESD SIGNALS TO MCC THAT WOULD BE HARD WIRED.
24- ESDL MEANS EARTHING SWITCH LOW.
25- SIGNALS OF CURRENT TRANSMITTERS ARE TAKEN FROM MCC.
26- WHILE PURGING THE EQUIPMENTS, VENTS SHALL BE PROPERLY KEPT OPEN IN ORDER TO AVOID EQUIPMENT PRESSURIZATION ABOVE EQUIPMENT DESIGN/PSV SET PRESSURE BY MAINTAINING PROPER ADMINISTRATIVE CONTROL. PRESSURE SAFETY VALVES AND RUPTURE DISCS ARE NOT DESIGNED FOR THE MAXIMUM PURGING CONDITION MENTIONED IN THE LICENSOR POP DATA.

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
02	OCT-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
01	AUG-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
00	JUL-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M

CLIENT

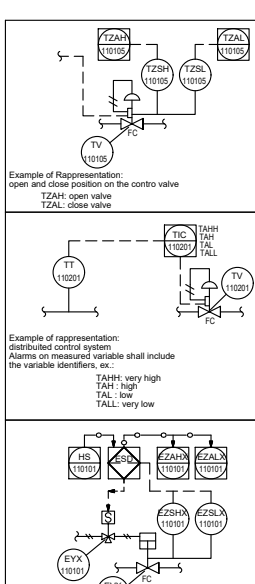
پتروشیمی توسعه پاری
صنعتی گوهر ابق

CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**
DRAWING TITLE: **PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU SYMBOL, ABBREVIATION AND GENERAL NOTES**

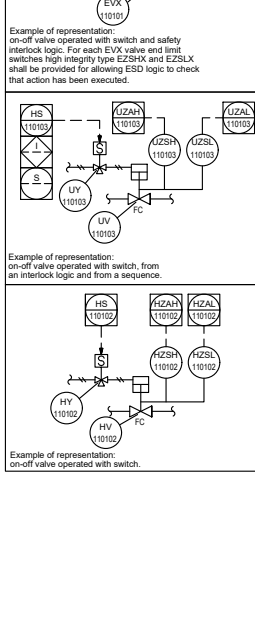
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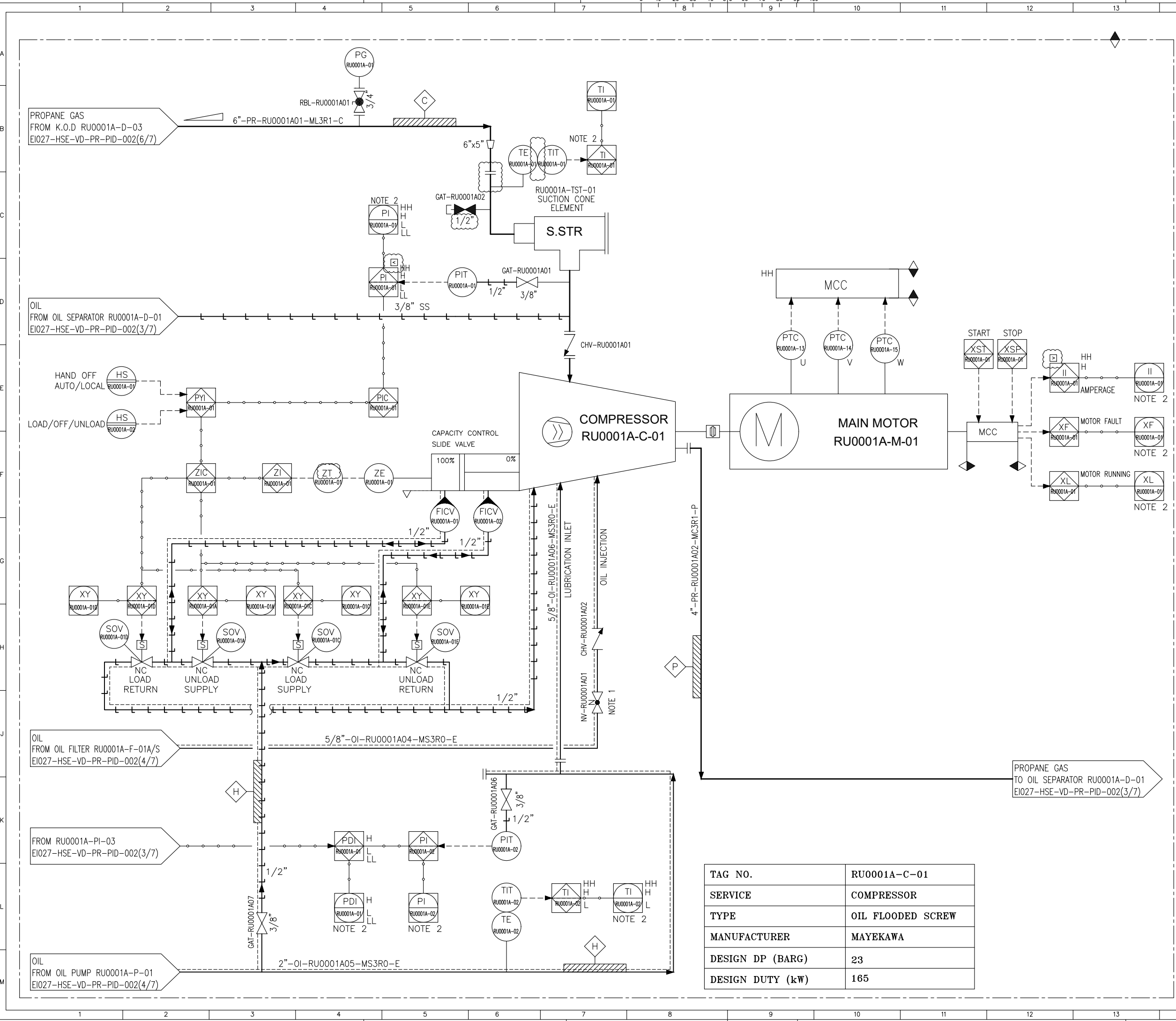
FLOW INSTRUMENTS		TYPICAL FOR MAGNETIC DRIVEN PUMP	
Symbol	Denomination	Symbol	Denomination
[Symbol]	SIGHT FLOW GLASS	[Symbol]	LEVEL SENSOR TO BE INSTALLED IN SUCTION PUMP LINE. IN PUMP LINE IN HORIZONTAL POSITION, 15° ANGLE DEVIATION FROM VERTICAL LINE.
[Symbol]	ORIFICE PLATE WITH TRANSMITTER	[Symbol]	
[Symbol]	ROTAMETER	[Symbol]	
[Symbol]	VENTURI	[Symbol]	
[Symbol]	FLOW NOZZLE	[Symbol]	
[Symbol]	PILOT OR ANUBAR WITH TRANSMITTER	[Symbol]	
[Symbol]	FLOW RESTRICTION ORIFICE	[Symbol]	
[Symbol]	TRANSMITTER	[Symbol]	
[Symbol]	MAGNETIC	[Symbol]	
[Symbol]	VORTEX	[Symbol]	
[Symbol]	CORIOLIS	[Symbol]	
[Symbol]	ULTRASONIC	[Symbol]	
[Symbol]	THERMAL FLOWMETER	[Symbol]	
[Symbol]	THERMAL FLOWMETER	[Symbol]	




Symbol	Denomination	Abbreviation
[Symbol]	CARTRIDGE Filter	FT
[Symbol]	Basket Filter	FT
[Symbol]	Sudon Element	TST
[Symbol]	Coalescer	D
[Symbol]	Decanter	D
[Symbol]	Compressor Screw	C
[Symbol]	Vertical Shell & Tube Exchanger	E
[Symbol]	Pump Reciprocating	P
[Symbol]	Ejector	EJ
[Symbol]	Aircooler	AE

REMOVABLE SPOOL PIECE		TYPICAL INSTALLATION FOR PI-PIT	
Symbol	Denomination	Symbol	Denomination
[Symbol]	INSULATION KIT	[Symbol]	PI
[Symbol]	Connected sheet No. for Process Flow Diagram and P&ID	[Symbol]	PIT
[Symbol]	Connected sheet No. for utilities P&ID	[Symbol]	PI
[Symbol]	Utility fluid code for P&ID utilities	[Symbol]	PIT
[Symbol]	Steam trap	[Symbol]	PI
[Symbol]	FREE DRAINING	[Symbol]	PIT
[Symbol]	Jacketed lines: they are marked with a double identification, one regarding the jacketed line and the other regarding the jacket.	[Symbol]	PI
[Symbol]	Supply battery limit	[Symbol]	PIT
[Symbol]	Tie In Point	[Symbol]	PI
[Symbol]	INDICATED ON P&ID	[Symbol]	PIT
[Symbol]	ACTUAL	[Symbol]	PI
[Symbol]		[Symbol]	PIT

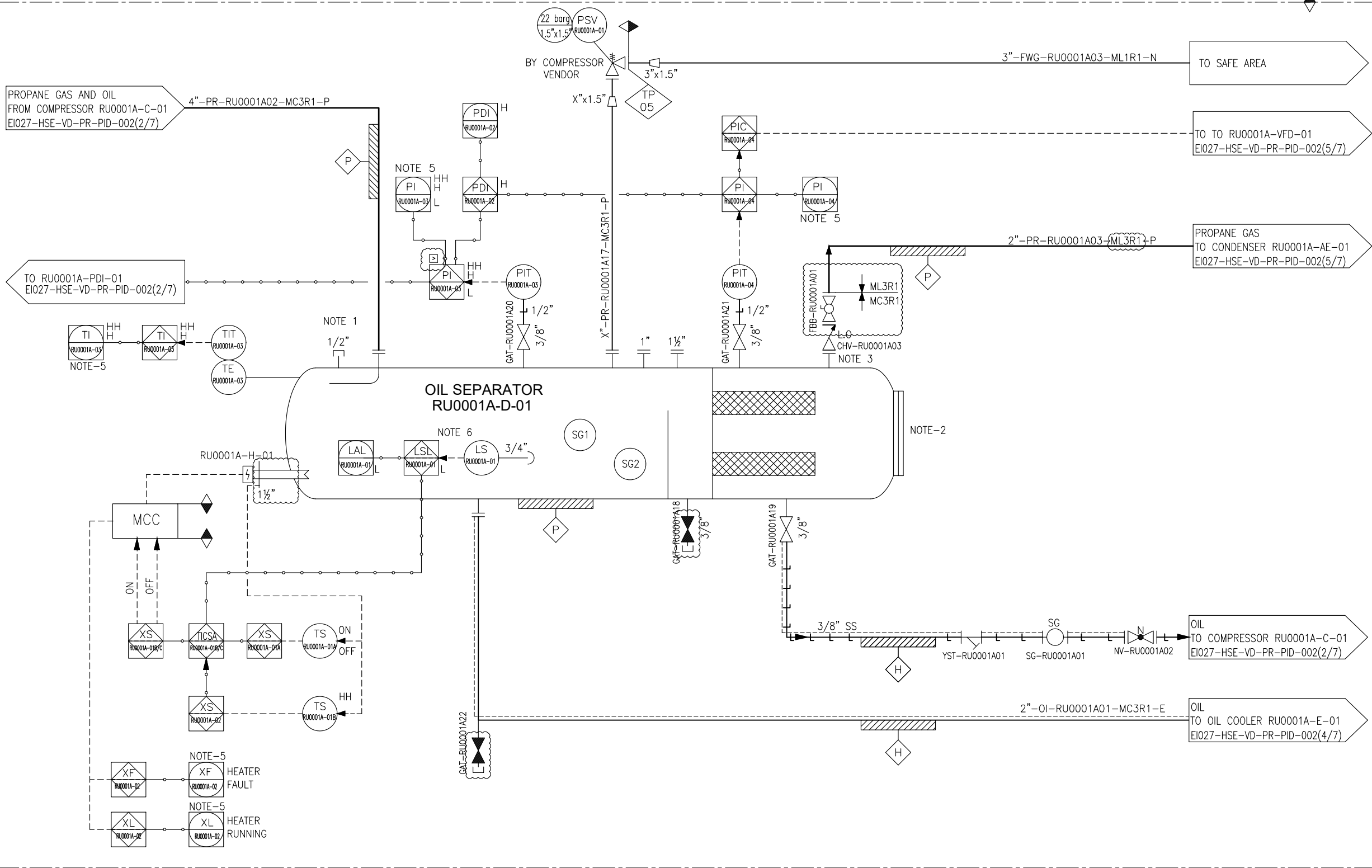




REFERENCE DRAWING	DWG NO.	REV.			
NOTES :					
1- OPENING DEGREE TO BE SET DURING COMMISSIONING AND LOGGED.					
2- SIGNALS ROUT TO DCS.					
3- MAINTAIN TEMPERATURE FOR ELECTRICAL INSULATIONS IS 30°C.					
LEGEND:					
VENDOR	▶	CUSTOMER			
HOLDE:					
EQUIPMENT LIST:					
KEY PLAN :					
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
02	OCT-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
01	AUG-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
00	JUL-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
CLIENT					
 پتروشیمی توسعه پارک صنعتی گوهر ابقی					
CONSULTING ENGINEER					
PROJECT: STYRENE PARK OFFSITE					
DRAWING TITLE: PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU					
DRAWING NO.	REV.	SIZE	SCALE	SHEET	
EI027-HSE-VD-PR-PID-002	02	A3	NTC	2 of 7	

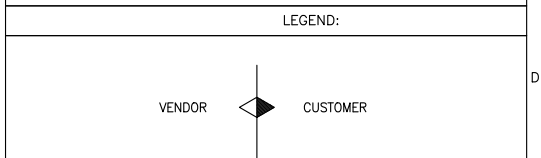
TAG NO.	RU0001A-C-01
SERVICE	COMPRESSOR
TYPE	OIL FLOODED SCREW
MANUFACTURER	MAYEKAWA
DESIGN DP (BARG)	23
DESIGN DUTY (kW)	165

TAG NO.	RU0001A-D-01
SERVICE	OIL SEPARATOR
DESIGN PRESS. (BARG)	22
DESIGN TEMP. (°C)	-29/100
ID x L (mm)	590 x 2250



REFERENCE DRAWING	DWG NO.	REV.

- NOTES :
- OIL TOP UP & VACUUM CONNECTION.
 - INSPECTION HOLE.
 - STOP CHECK VALVE FOR PREVENT SPIN BACK.
 - DELETED.
 - SIGNAL ROUT TO DCS.
 - IN CASE OF LOW LEVEL, THE OIL HEATER TO BE TRIPPED.
 - MAINTAIN TEMPERATURE FOR ELECTRICAL INSULATIONS IS 30°C.



HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
02	OCT-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**
 DRAWING TITLE: **PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU**

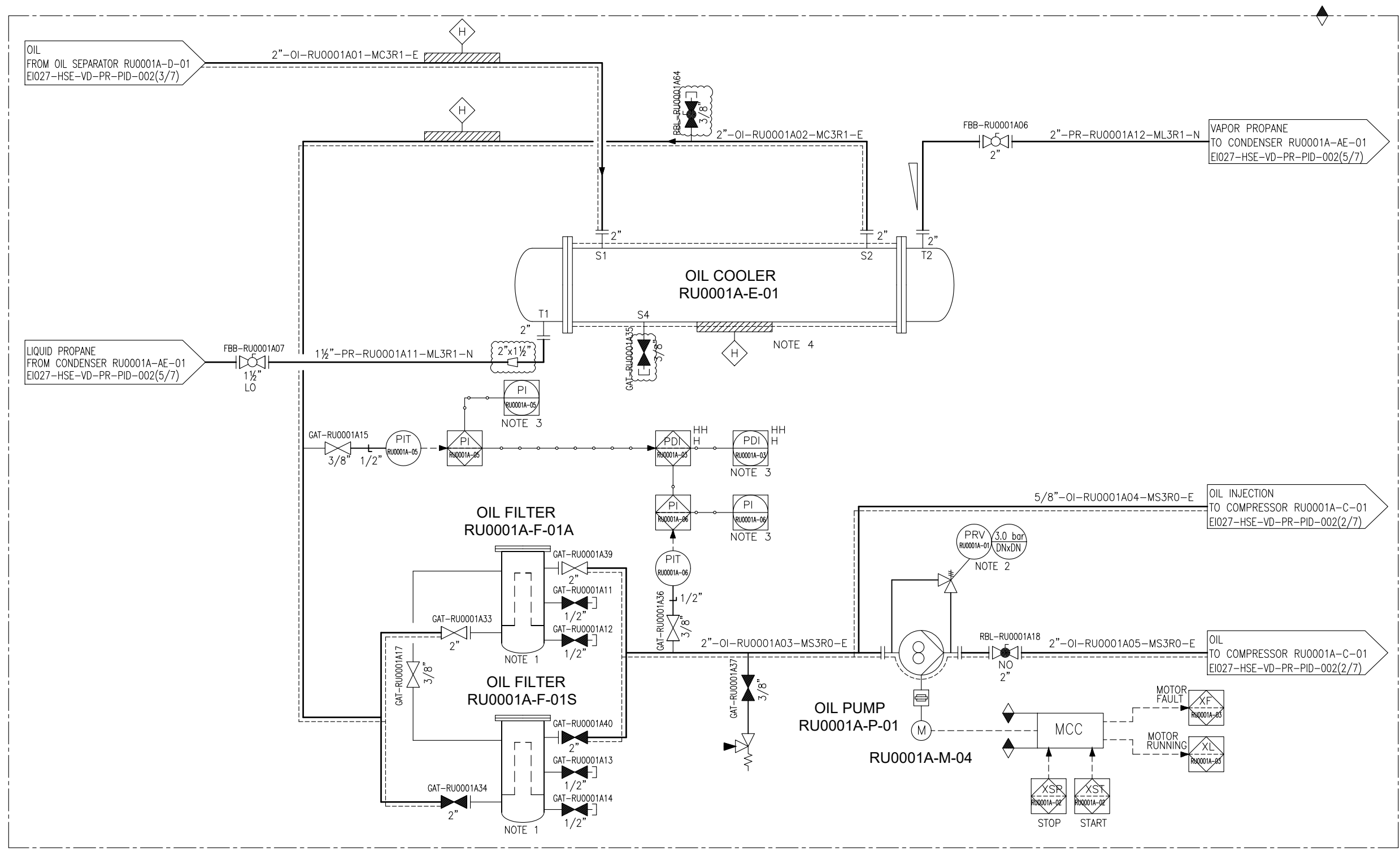
DRAWING NO.	REV. SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	02 A3	NTC	3 of 7

TAG NO.	RU0001A-E-01
SERVICE	OIL COOLER
DESIGN PRESS. (BARG)	S: 30, T:30
DESIGN TEMP. (°C)	S:5/100, T:-45/100
DESIGN DUTY (kW)	24.7
ID x L (mm)	139.7 x 2200
TYPE	AEH

TAG NO.	RU0001A-P-01
SERVICE	OIL PUMP
TYPE	SCREW PUMP
DESIGN PRESS. (BARG)	26
DESIGN TEMP. (°C)	5 / 100
RATED POWER (kW)	2.5

TAG NO.	RU0001A-F-01A/S
SERVICE	OIL FILTER
DESIGN PRESS. (BARG)	23
DESIGN TEMP. (°C)	5/100
ID x L (mm)	MAYEKAWA

REFERENCE DRAWING	DWG NO.	REV.
NOTES :		
1- ONE OPERATING / ONE STAND-BY.		
2- DP=3 BAR.		
3- SIGNAL ROUT TO DCS.		
4- HEAT TRACING TO BE TURNED OFF DURING COMPRESSOR START.		
5- MAINTAIN TEMPERATURE FOR ELECTRICAL INSULATIONS IS 30°C.		



LEGEND:

VENDOR CUSTOMER

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

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CLIENT



پتروشیمی توسعه پارک
صنعتی گوهر ابق

CONSULTING ENGINEER

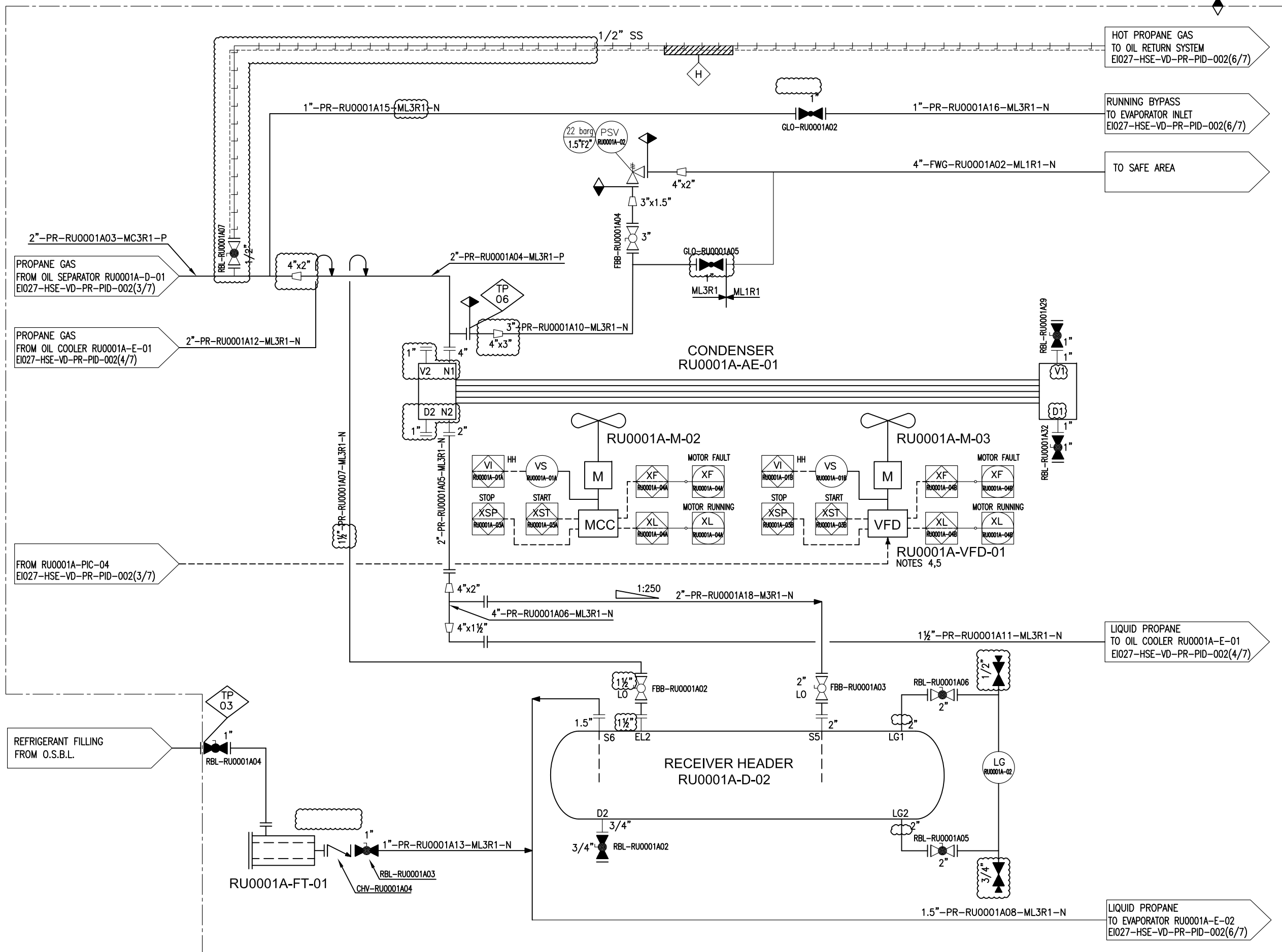
PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-PR-PID-002	02	A3	NTC	4 of 7

TAG NO.	RU0001A-AE-01
SERVICE	CONDENSER
DESIGN PRESS. (BARG)	22.0+FV
DESIGN TEMP. (°C)	-45/120
DESIGN DUTY (kW)	257

TAG NO.	RU0001A-D-02
SERVICE	RECEIVER HEADER
DESIGN PRESS. (BARG)	22.0+FV
DESIGN TEMP. (°C)	-45/120
ID x L (mm)	437 x 4000



REFERENCE DRAWING	DWG NO.	REV.

NOTES :

- 1- DELETED.
- 2- MANUAL FAN PITCH HAS BEEN CONSIDERED FOR EACH FAN.
- 3- MAINTAIN TEMPERATURE FOR ELECTRICAL INSULATIONS IS 30°C.
- 4- VARIABLE FREQUENCY DRIVE IS INSTALLED IN MOTOR CONTROL CENTER.
- 5- MOTOR HARDWIRE CONNECTED TO VARIABLE FREQUENCY DRIVE.

LEGEND:

VENDOR CUSTOMER

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
02	OCT-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
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00	JUL-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M

CLIENT

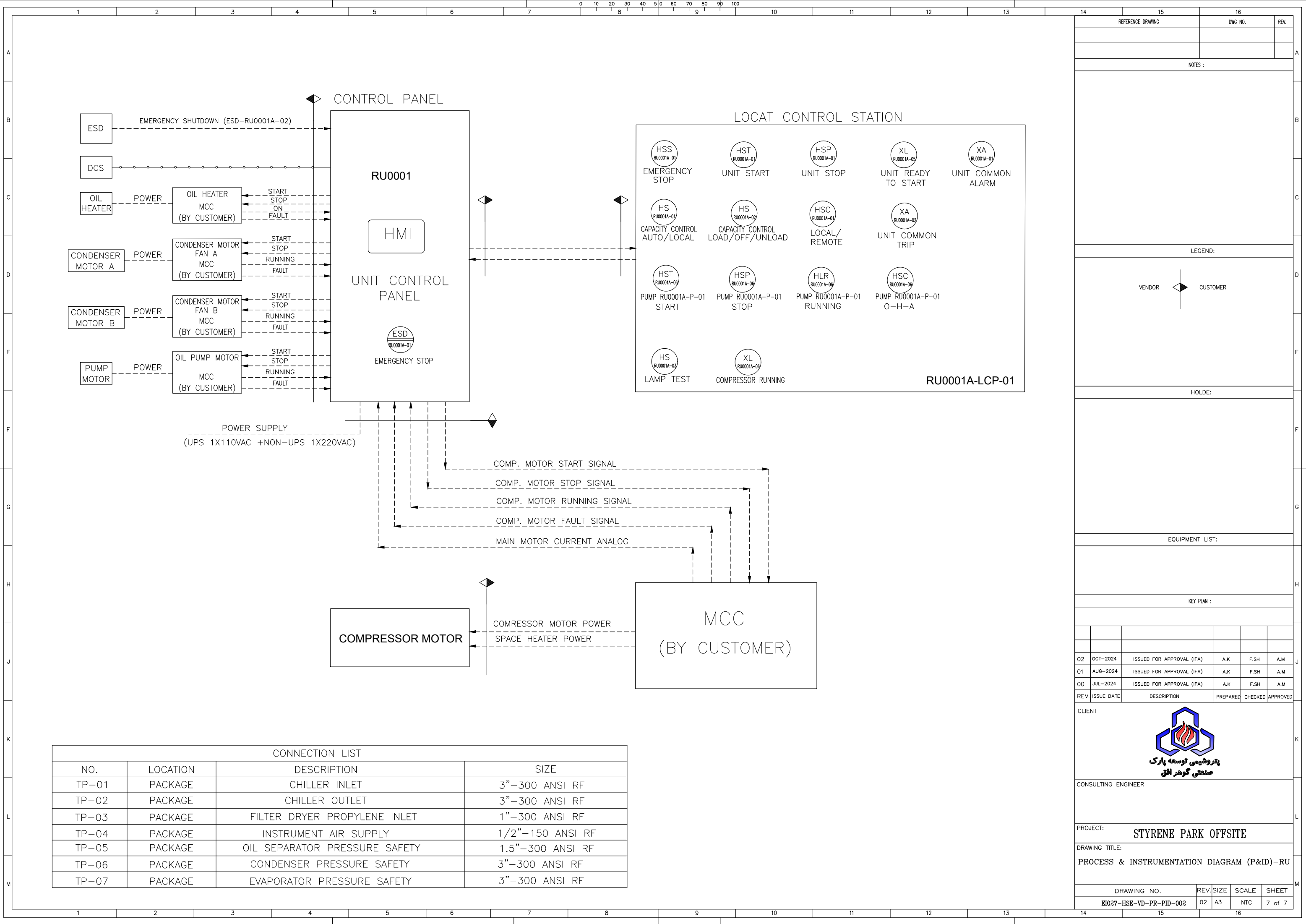
پتروشیمی توسعه پارک
صنعتی گوهر افق

CONSULTING ENGINEER

PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE: PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EIO27-HSE-VD-PR-PID-002	02	A3	NTC	5 of 7



REFERENCE DRAWING	DWG NO.	REV.

NOTES :

LEGEND:

VENDOR ◀ CUSTOMER

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
02	OCT-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
01	AUG-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M
00	JUL-2024	ISSUED FOR APPROVAL (IFA)	A.K	F.SH	A.M

CLIENT



پتروشیمی توسعه پارک
صنعتی گوهر ابقی

CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	02	A3	NTC	7 of 7

NO.	LOCATION	DESCRIPTION	SIZE
TP-01	PACKAGE	CHILLER INLET	3"-300 ANSI RF
TP-02	PACKAGE	CHILLER OUTLET	3"-300 ANSI RF
TP-03	PACKAGE	FILTER DRYER PROPYLENE INLET	1"-300 ANSI RF
TP-04	PACKAGE	INSTRUMENT AIR SUPPLY	1/2"-150 ANSI RF
TP-05	PACKAGE	OIL SEPARATOR PRESSURE SAFETY	1.5"-300 ANSI RF
TP-06	PACKAGE	CONDENSER PRESSURE SAFETY	3"-300 ANSI RF
TP-07	PACKAGE	EVAPORATOR PRESSURE SAFETY	3"-300 ANSI RF