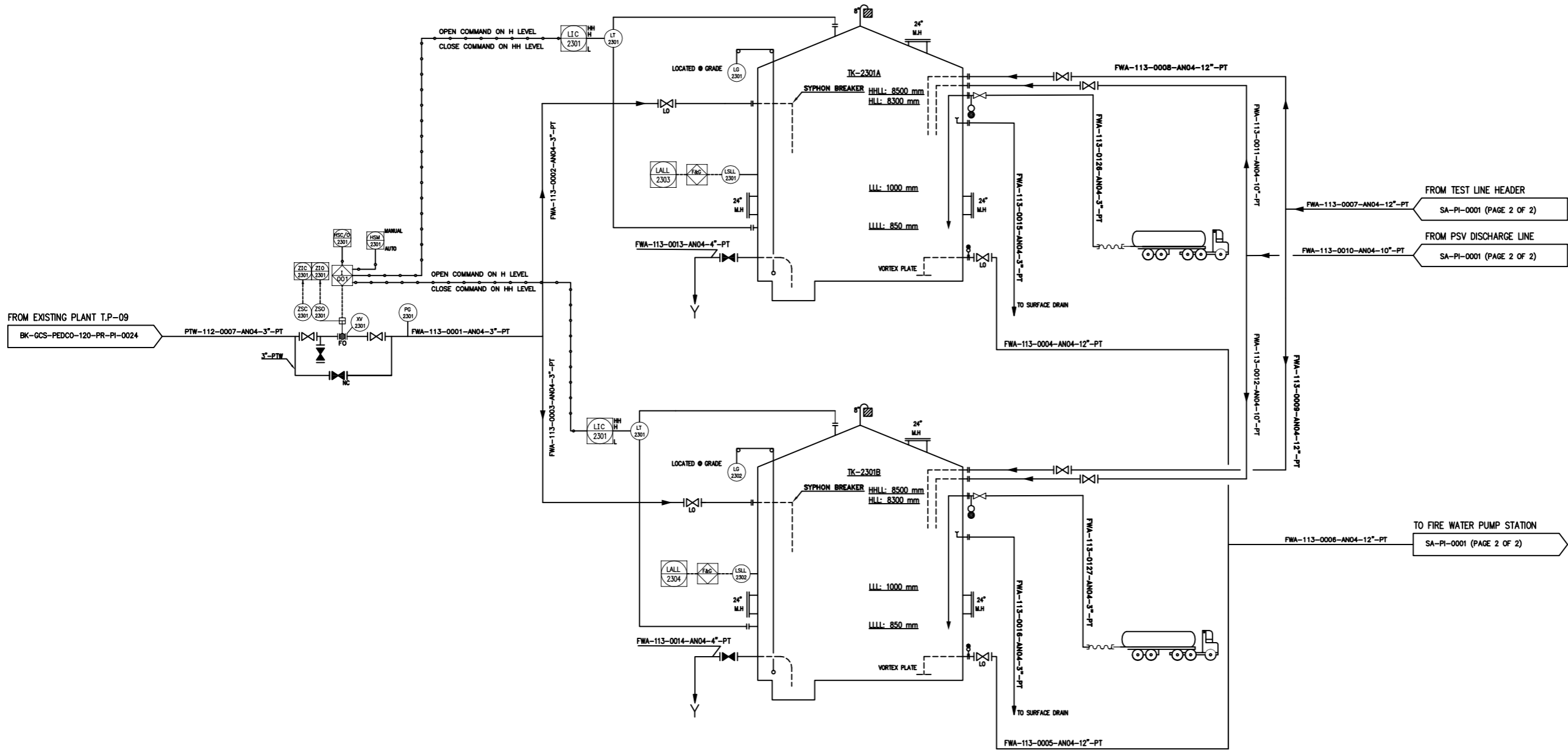


TK-2301-A
FIRE WATER STORAGE TANK
 NET CAPACITY: 1015 m³
 DESIGN PRESS.: ATM+Full of Water
 DESIGN TEM.: 85 C
 DIMENSION : Dia. x Height : 13 m x 9.5 m

TK-2301-B
FIRE WATER STORAGE TANK
 NET CAPACITY: 1015 m³
 DESIGN PRESS.: ATM+Full of Water
 DESIGN TEM.: 85 C
 DIMENSION : Dia. x Height : 13 m x 9.5 m



NOTES

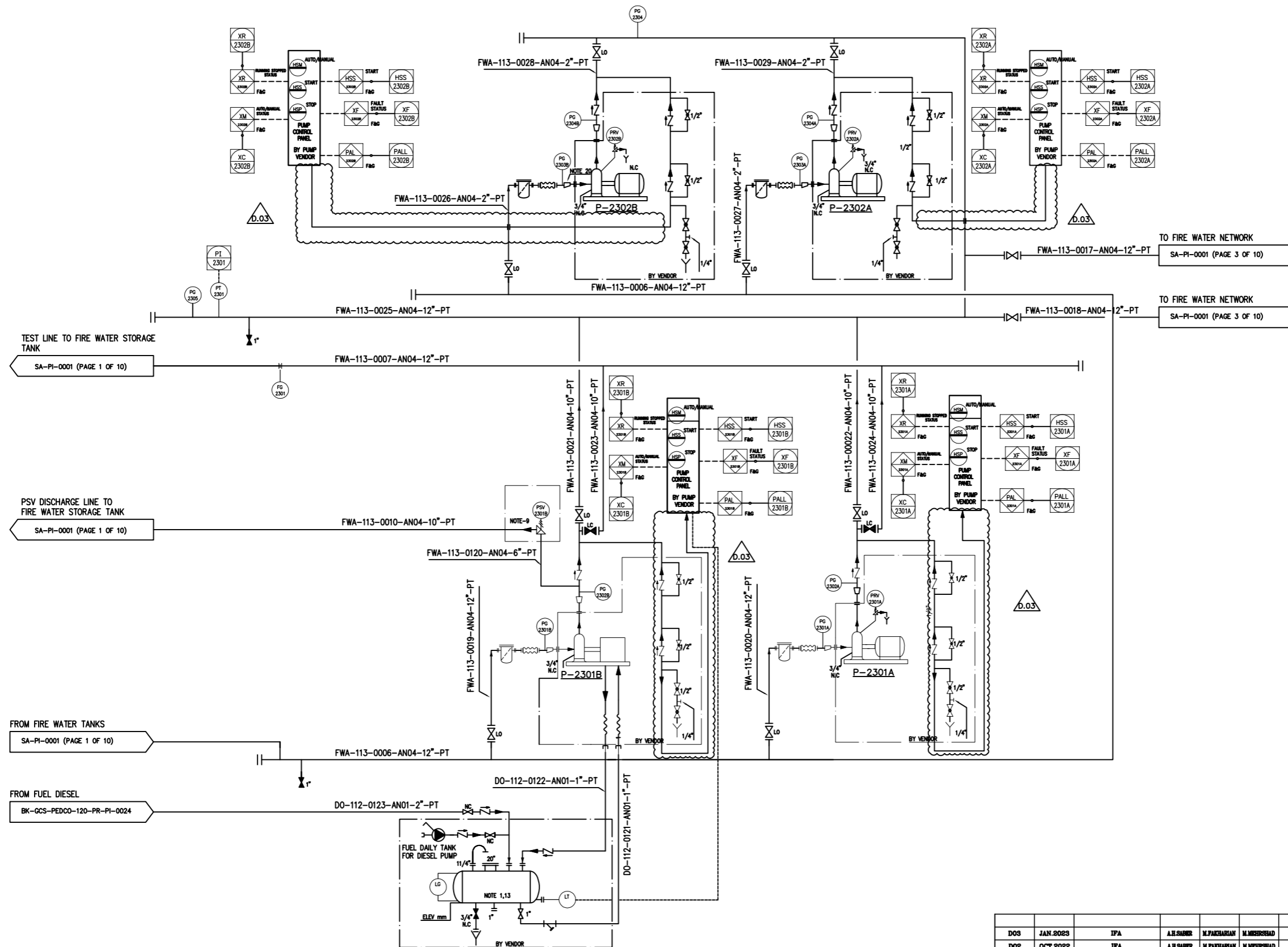
REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CI-0008
FPD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CI-0008

REV.	DATE	DESCRIPTION	CHECKED	BY	DATE	REV.	DATE	DESCRIPTION	CHECKED	BY	DATE
DOS	JAN.2023	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00					
DO2	OCT.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00					
DO1	MAY.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00					
DO0	FEB.2022	IFC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00					

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
 PROJECT NO.: 971020
 EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
 EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY
 DRAWING TITLE: P&ID - Fire Water Network
 NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
 APPROVED FOR CONSTRUCTION BY: DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS	AS	BK-GCS-PEDCO-120-SA-PI-0001	01 OF 8	DOS	053-073-9184	F	2	A	708995	01 OF 8 DOS

امثل و کليه نسخ اين نقشه و حق اقتباس معنوي به شرکت ملي مناطق نفت خيز جنوب ميباشد.
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P-2301A
FIRE WATER ELECTRIC PUMP
TYPE : CENTRIFUGAL
RATED CAPACITY : 454.2 M3/hr
DIFF. PRESS. : 10.3 BAR (NOTE 21)

P-2301B
FIRE WATER DIESEL PUMPS
TYPE : CENTRIFUGAL
RATED CAPACITY : 454.2 M3/hr
DIFF. PRESS. : 10.3 BAR (NOTE 21)

P-2302 A/B
FIRE WATER JOCKEY PUMPS
TYPE : CENTRIFUGAL
RATED CAPACITY : 15 M3/hr
DIFF. PRESS. : 10.3 BAR (NOTE 21)

- NOTES**
- 1- THE DIESEL FUEL DAILY TANKS TO HAVE MIN. 24 HOURS DURATION FOR DIESEL ENGINE PUMP. THE ESTIMATED CAPACITY / DIMENSION SHALL BE INSTALLED AT A SAFE DISTANCE FROM THE ENGINE.
 - 2- THE LOCAL INSTRUMENT SHALL BE VISIBLE AT GROUND LEVEL. THE RANGE OF LOCAL "TI" SHALL COVER AT LEAST 175% OF PUMP RATED CAPACITY. SYSTEM SHALL SUPPLIED COMPLETE WITH REQUIRED INSTRUMENTS.
 - 3- THE ELEVATION OF DRUM SHALL BE ADVISED BY DIESEL VENDOR.
 - 4- LOCAL PANEL INFORMATION SHALL BE REPEATED IN F&G PANEL LOCATED IN CONTROL BUILDING/LCR WITH HARDWARE SIGNAL.
 - 5- THE LOCAL CONTROLLER SHALL BE SUPPLIED BY PUMP VENDOR.
 - 6- PRESSURE-SENSING LINE SHALL BE BRASS, COPPER, OR SERIES 300 STAINLESS STEEL PIPE OR TUBE, AND THE FITTINGS SHALL BE OF 1/2 IN. (15 MM) NOMINAL SIZE. ALSO CHECK VALVES WITH 2.4 MM HOLE DRILLED IN CLAPPER TO BE SUPPLIED BY PUMP VENDOR. SENSING LINE SHALL BE ACCORDING TO NFPA 20.
 - 7- FIRE PUMPS LOCAL PANEL, INDICATIONS AND DEVICES SHALL BE ACCORDING TO NFPA 20.
 - 8- THE SET PRESSURE OF SAFETY VALVE SHALL BE ADJUSTED BY PUMP VENDOR.
 - 9- THE JOCKEY PUMPS SHALL BE CONNECTED TO THE FIRE WATER MAIN HEADER TO CONTROL MAIN RING PRESSURE (ONE WORKING & ONE STANDBY).
 - 10- MINIMUM SIZE OF 1" AUTOMATIC RELIEF VALVE SHALL BE CONSIDERED FOR ELECTRIC FIRE PUMP ACCORDING TO NFPA 20 BY PUMP VENDOR.
 - 11- THE DISTANCE BETWEEN TWO CHECK VALVES SHALL NOT BE LESS THAN 1.5 m.
 - 12- THE DAILY DIESEL FUEL TANK IS IN SCOPE OF FIRE WATER DIESEL PUMP SUPPLIER.
 - 13- THE TYPE OF SUCTION VALVES, DISCHARGE VALVES OF PUMPS AND ISOLATION VALVES ON MAIN HEADER SHALL BE INDICATING TYPE WITH LOCKING DEVICE.
 - 14- IN THE CASE OF PUMP START FAIL THE NEXT PUMP SHALL START AUTOMATICALLY.
 - 15- TIME CONTROLLERS ARE USED TO MAKE A TIME DELAY BEFORE PUMP START COMMANDS THAT ARE CAUSED BY TRANSIENT PRESSURE FLUCTUATIONS.
 - 16- THE JOCKEY PUMP STOP POINT SHOULD EQUAL THE PUMP CHURN PRESSURE PLUS THE MINIMUM STATIC SUPPLY PRESSURE. START POINT SHOULD BE AT LEAST 0.68 BAR LESS THAN STOP POINT.
 - 17- FIRST STAGE FIRE PUMP START POINT SHOULD BE 0.34 BAR LESS THAN NETWORK WORKING PRESSURE.
 - 18- MAIN RESERVE SELECTION SWITCH SHALL BE CONSIDERED ONLY IN ONE OF THE JOCKEY PUMP PANEL.
 - 19- PUMPS INLET AND OUTLET REDUCER SIZE SHALL BE FINALIZED AFTER RECEIVING PUMP VENDOR DATA.
 - 20- ALL PUMPS SHALL BE ACCORDING TO NFPA 20 TYPE.
 - 21- THE JOCKEY PUMP START AND STOP POINT ARE 6 AND 8 BARG RESPECTIVELY.
 - 22- THE SECOND JOCKEY PUMP START POINT IS 5 BARG.
 - 23- THE ELECTRICAL FIRE PUMP START POINT IS 4 BARG.
 - 24- THE DIESEL FIRE PUMP WILL BE STARTED @ 3 BARG, OR IF THE DISCHARGE HEADER PRESSURE DOESN'T REACH TO 10 BARG, AFTER 20 SECONDS.
 - 25- PRESSURE SWITCH ACTUATION AT THE LOW ADJUSTMENT SETTING SHALL INITIATE THE PUMP STARTING SEQUENCE IF THE PUMP IS NOT ALREADY IN OPERATION ON EACH CONTROL PANEL.

REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CR-0008
FPD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CR-0008

REV.	DESCRIPTION	BY	DATE	BY	DATE
DO0		IFC			
DO1		IFA			
DO2		IFA			
DO3		IFA			

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
PROJECT NO.: 971020

EPC CONTRACTOR: **HIRGAN ENERGY** & **TE**
EPD/EPC CONTRACTOR (GC): **PEIROIRAN DEVELOPMENT COMPANY** & **PEDCO**

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS		BK-GCS-PEDCO-120-SA-FI-0001	02 OF 8	DO3	053-073-9184	F	2	A	708995	02 OF 8

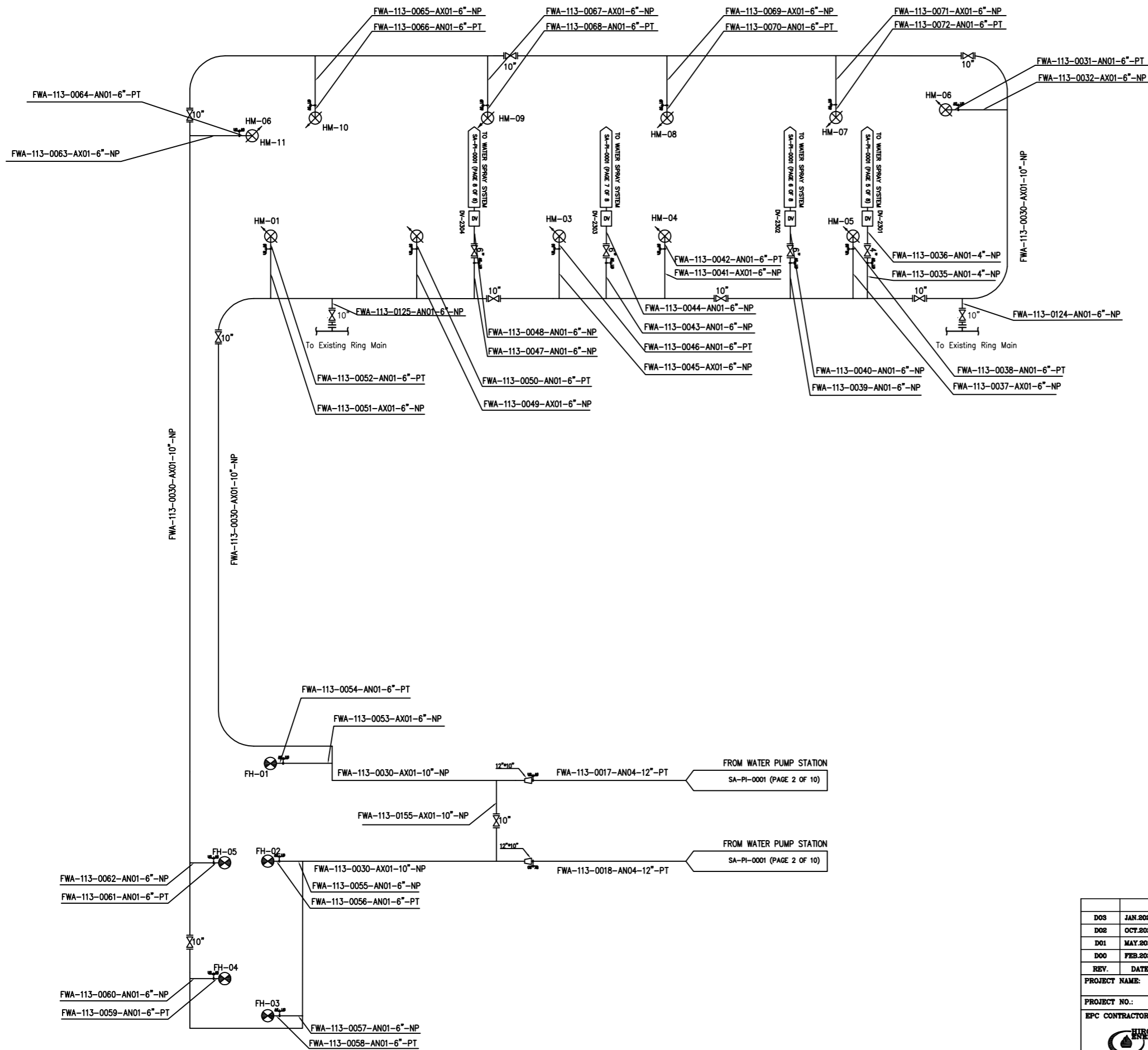
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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:



NOTES

REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	EK-GCS-PEDCO-120-SA-CH-0008
FPD - FIRE WATER SYSTEM	EK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	EK-GCS-PEDCO-120-SA-CH-0008

REV.	DATE	DESCRIPTION	CHECKED	BY	DATE	BY	DATE
D01	MAY.2022	IFC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00
D02	OCT.2022	IFC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00
D03	JAN.2023	IFC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: P&ID - Fire Water Network

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS	AS	EK-GCS-PEDCO-120-SA-PI-0001	03 OF 8	D03	053-073-9184	F	2	A	708995	03 OF 8

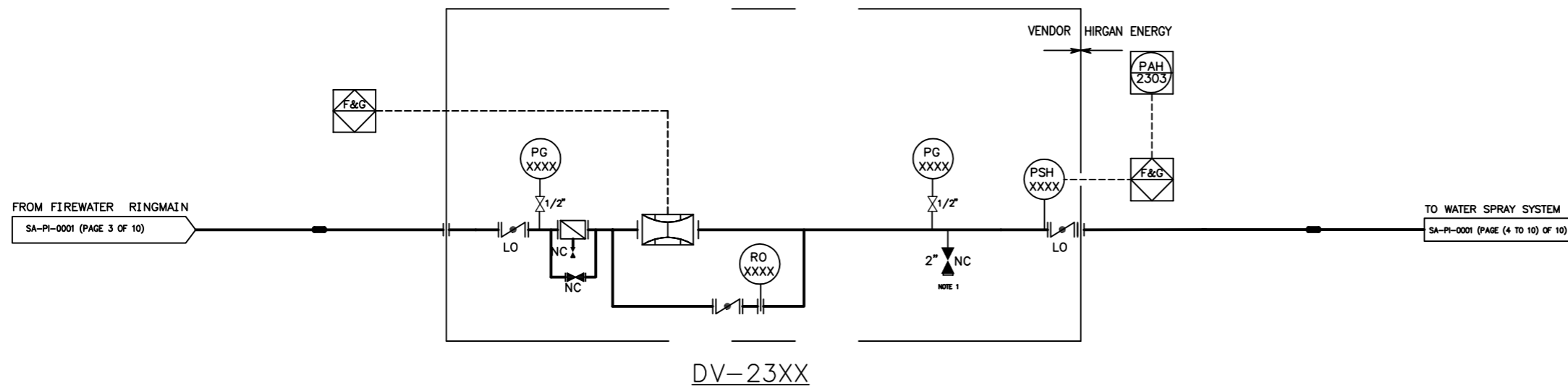
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NOTES

1- TO BE USED FOR FLUSHING AND DRAIN PURPOSE.

DELUGE VALVE DETAILS

DELUGE NO.	SIZE	FLOW RATE(M3/HR)	COVERED EQUIPMENT NO.
DV-2301	4	150	V-2104
			V-2105
			P-2101 A/B
DV-2302	6	155	C-2101 & 2102 A
			V-2101 A
			V-2102 A
DV-2303	6	155	C-2101 & 2102 B
			V-2101 B
			V-2102 B
DV-2304	6	161	C-2101 & 2102 C
			V-2101 C
			V-2102 C
			V-2103



REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	EK-GCS-PEDCO-120-SA-CH-0008
FPD - FIRE WATER SYSTEM	EK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	EK-GCS-PEDCO-120-SA-CH-0009

REV.	DATE	DESCRIPTION	CHECKED	BY	DATE	BY	DATE
D05	JAN.2023	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00	
D02	OCT.2022	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00	
D01	MAY.2022	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00	
D00	FEB.2022	IFC	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00	

اصل و کاپیة نسخ این نقشه و حق اقتباس متعلق به شرکت ملی صنایع نفت خیز جنوب میباشد.
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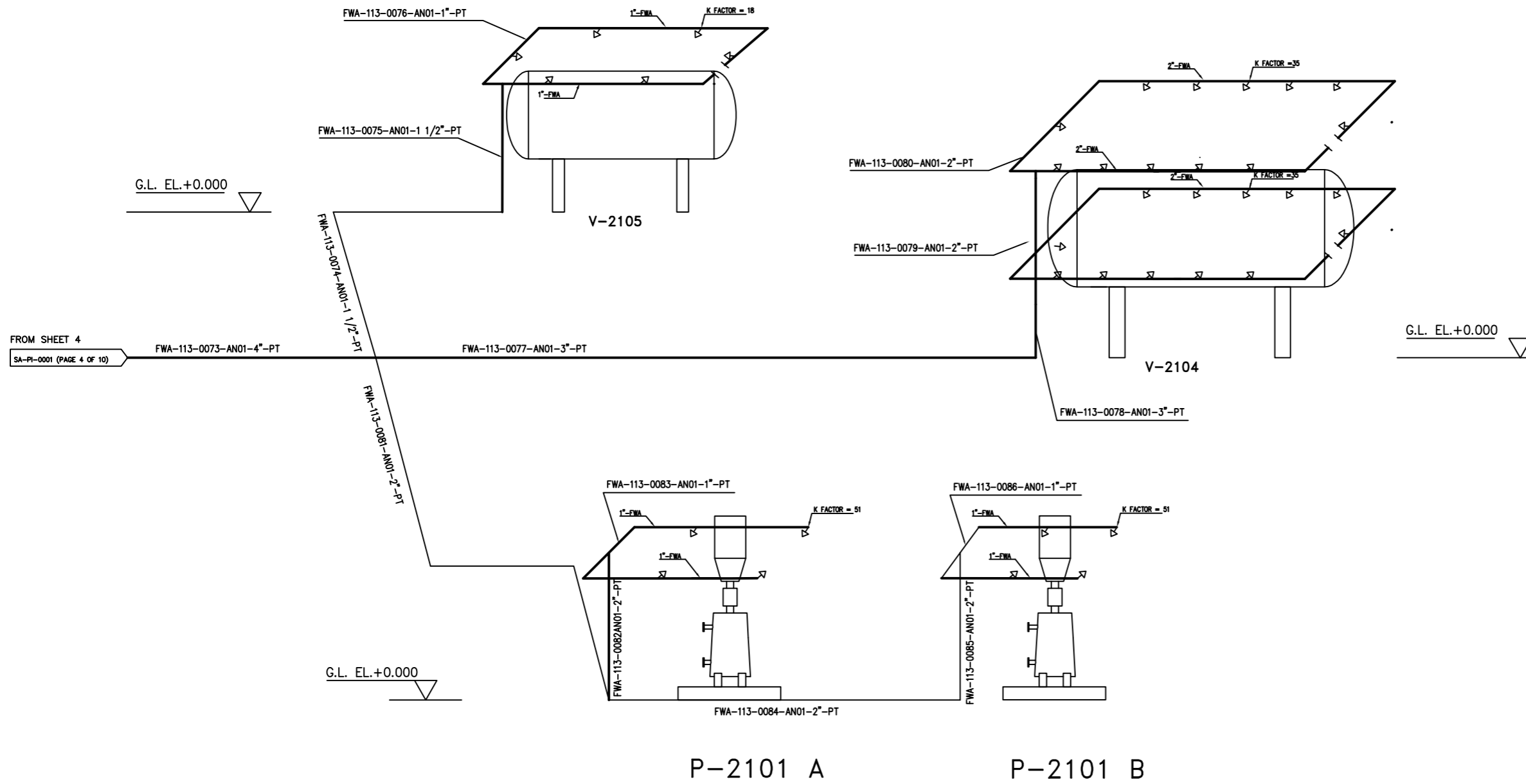
PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION		
PROJECT NO.:	971020		
EPC CONTRACTOR:	HIRGAN ENERGY	EPD/EPC CONTRACTOR (GC):	PETROIRAN DEVELOPMENT COMPANY
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		PEDCO	
DRAWING TITLE: P&ID - Fire Water Network			
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			
APPROVED FOR CONSTRUCTION		BY: DATE:	
SCALE	SIZE	DRAWING NO.	SHEET NO. REV.
AS	A5	EK-GCS-PEDCO-120-SA-PI-0001	04 OF 8 D05
BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO. SHEET REVISION
053-073-9184	F	2 A	708995 04 OF 8 D05

NOTES

1- NOZZLES WILL BE INSTALLED WITH 2.5 METERS DISTANCES FROM EACH OTHER IN LENGTHS. THIS IS BASED ON COVERAGE AREA BY EACH NOZZLE BASED ON SELECTED PROPER NOZZLE TYPE.

NOZZLE DETAILS

PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
V-2104	35.00	24	3	160
V-2105	18.00	6	3.5	160
P-2101 A/B	51.00	8	3	160



REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	EK-GCS-PEDCO-120-SA-CN-0008
FPD - FIRE WATER SYSTEM	EK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	EK-GCS-PEDCO-120-SA-CN-0008

REV.	DATE	DESCRIPTION	CHECKED	BY	DATE	BY	DATE
D05	JAN.2023	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00
D02	OCT.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00
D01	MAY.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00
D00	FEB.2022	IFC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	00.00	00.00

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
 PROJECT NO.: 971020
 EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
 EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY
 DRAWING TITLE: P&ID - Fire Water Network
 NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
 APPROVED FOR CONSTRUCTION BY: DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS	AS	EK-GCS-PEDCO-120-SA-P1-0001	05 OF 8	D05	053-073-9184	F	2	A	708995	05 OF 8 D05

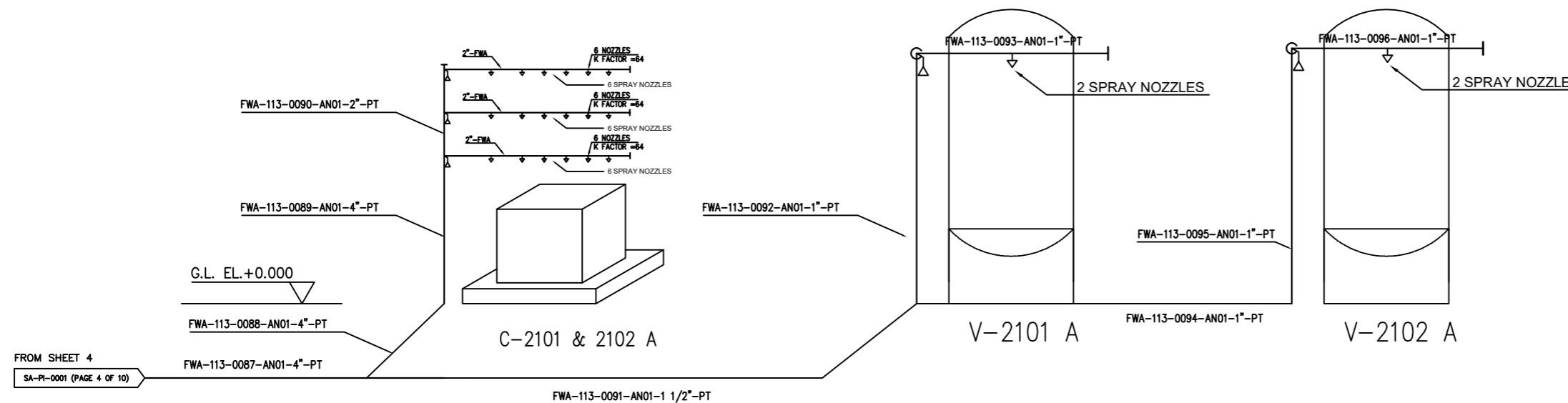
امثل و کلیه نسخ این نقشه و حق انحصاری تمامی به شرکت ملی صنایع پتروشیمی میسر میماند.
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NOTES

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NOZZLE DETAILS

PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
C-2101 & 2102 A	64.00	18	4	160
V-2101 A	35.00	2	3	160
V-2102 A	30.00	2	3	160



REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	EK-GCS-PEDCO-120-SA-CN-0008
FPD - FIRE WATER SYSTEM	EK-GCS-PEDCO-120-SA-PF-0001
Fire Water Hydraulic Calculation Note	EK-GCS-PEDCO-120-SA-CN-0008

FROM SHEET 4
SA-PI-0001 (PAGE 4 OF 10)

REV.	DATE	DESCRIPTION	CHECKED	DATE	BY	DATE	BY	DATE	BY
D05	JAN.2023	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00			
D02	OCT.2022	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00			
D01	MAY.2022	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00			
D00	FEB.2022	IFC	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00			

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
 PROJECT NO.: 971020
 EPC CONTRACTOR: HIRGAN ENERGY (Logo) PEDCO (Logo)
 EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (Logo)
 DRAWING TITLE: P&ID - Fire Water Network
 NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
 APPROVED FOR CONSTRUCTION BY: DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS	AS	EK-GCS-PEDCO-120-SA-PI-0001	06 OF 8	D05	053-073-9184	F	2	A	708995	06 OF 8 D05

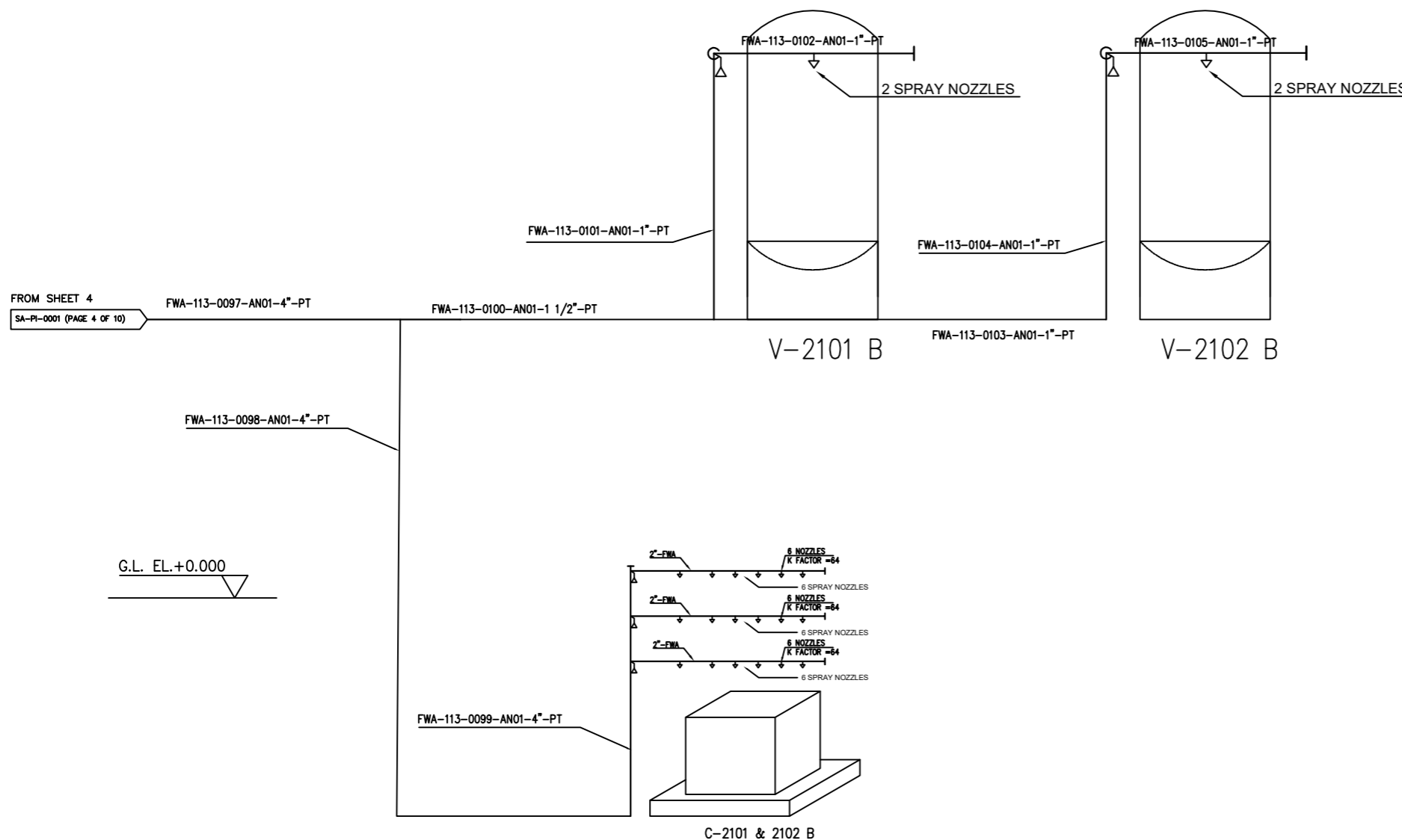
امثل و کلیه نسخ این نقشه و حق انحصاری معنایی به شرکت ملی صنایع پتروشیمی میسر میماند.
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NOTES

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NOZZLE DETAILS

PROTECTED EQUIPMENT	K FACTOR LPM/√BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
C-2101 & 2102 B	64.00	18	4	160
V-2101 B	35.00	2	3	160
V-2102 B	30.00	2	3	160



REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	EK-GCS-PEDCO-120-SA-CN-0008
FPD - FIRE WATER SYSTEM	EK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	EK-GCS-PEDCO-120-SA-CN-0008

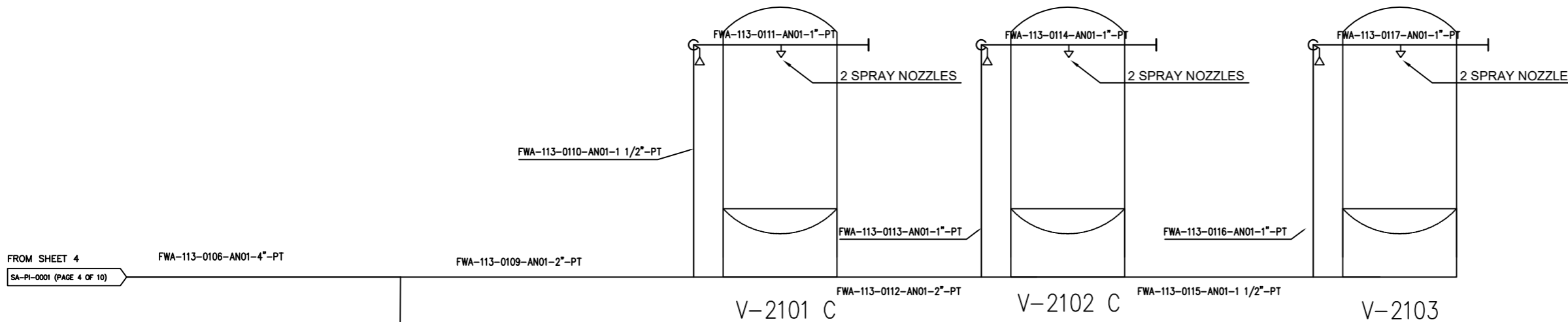
DOS	JAN.2023	IPA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00							
D02	OCT.2022	IPA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00	00.00	000.0000	00.00	000.0000			
D01	MAY.2022	IPA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00			BY	DATE	BY	DATE	
D00	FEB.2022	IPC	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00			CHECKED		REV.	APPR.	
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کاپیه نسخ این نقشه و حق انحصاری معنایی به شرکت ملی صنایع پتروشیمی میسر میماند. THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS						
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION PROJECT NO.: 971020 EPC CONTRACTOR: HIRGAN ENERGY & INSPECTION COMPANIES EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION													
DRAWING TITLE: P&ID - Fire Water Network NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED													
APPROVED FOR CONSTRUCTION BY: DATE:													
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION	
000000	A5	EK-GCS-PEDCO-120-SA-FI-0001			07 OF 8	D03	053-073-9184	F	2	A	708896	07 OF 8	D03

NOTES

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NOZZLE DETAILS

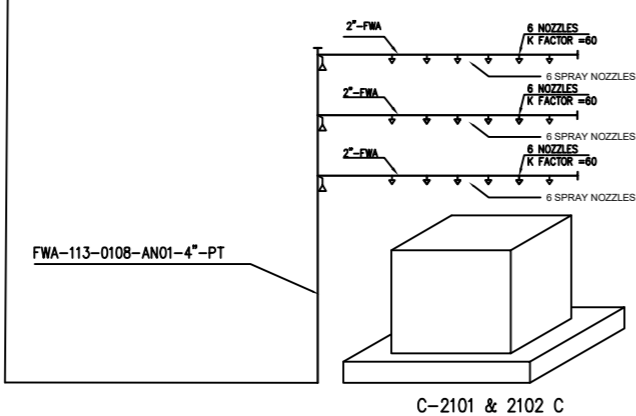
PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
C-2101 & 2102 C	64.00	18	4	160
V-2101 C	35.00	2	4	160
V-2102 C	26.00	2	4	160
V-2103	26	2	4	160



FROM SHEET 4
SA-PI-0001 (PAGE 4 OF 10)

FWA-113-0107-AN01-4"-PT

G.L. EL.+0.000



FWA-113-0108-AN01-4"-PT

C-2101 & 2102 C

REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	EK-GCS-PEDCO-120-SA-CH-0008
FPD - FIRE WATER SYSTEM	EK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	EK-GCS-PEDCO-120-SA-CH-0008

REV.	DATE	DESCRIPTION	CHECKED	DATE	BY	DATE	BY	DATE
DOS	JAN.2023	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00		
DO2	OCT.2022	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00		
DO1	MAY.2022	IFA	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00		
DO0	FEB.2022	IFC	A.H.SABER	M.FAKHARIAN	M.MEHRSHAD	00.00		

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.: 971020

EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):
HURGAN ENERGY - DESIGN & INSPECTION COMPANIES	PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: P&ID - Fire Water Network

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS	AS	EK-GCS-PEDCO-120-SA-PI-0001	08 OF 8	DOS	053-073-9184	F	2	A	708995	08 OF 8

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

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