INSTRUMENTATION ABBREVIATIONS

AA	ANALOG ALARM	FTP	FUEL TRANSFER PUMP	NONRED	NON-REDUNDANT
AI	ANALOG INPUT	FV	FLOW VALVE	P	PUMP
AO	ANALOG OUTPUT	HOA	HAND-OFF-AUTO	PB	PUSH BUTTON
ATG	AUTOMATIC TANK GAUGING	HS	HAND SWITCH	PC	PERSONAL COMPUTER
BKRS	BREAKERS	I	INTERLOCK	PCP	PUMP CONTROL PANEL
BLDG	BUILDING	I/O	INPUT/OUTPUT	PCV	PRESSURE CONTROL VALVE
BPCV	BYPASS CONTROL VALVE	LAH	LEVEL ALARM HIGH	PI	PRESSURE INDICATOR
CPU	CENTRAL PROCESSING UNIT	LAHH	LEVEL ALARM HIGH-HIGH	PIT	PRESSURE INDICATING TRANSMITTER
CV	CONTROL VALVE	LAL	LEVEL ALARM LOW	PRT	PRODUCT RECOVERY TANK
DI	DIGITAL INPUT	LE	LEVEL ELEMENT	RECEPT	RECEPTACLE
DO	DIGITAL OUTPUT	LI	LEVEL INDICATOR	RTU	REMOTE TERMINAL UNIT
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	LIT	LEVEL INDICATING TRANSMITTER	S	SOLENOID
ESD	EMERGENCY STOP DEVICE	LG	LIGHT GREEN	SYS	SYSTEM
ESO	EMERGENCY SHUT-OFF	LR	LIGHT RED	TAH	TEMPERATURE ALARM HIGH
FA	FLOW ALARM	LSH	LEVEL SWITCH HIGH	TE	TEMPERATURE ELEMENT
FAL	FLOW ALARM LOW	LSHH	LEVEL SWITCH HIGH-HIGH	UPS	UNINTERRUPTIBLE POWER SUPPLY
FCV	FLOW CONTROL VALVE	LSL	LEVEL SWITCH LOW	PLC	PERSONAL COMPUTER
FI	FLOW INDICATOR	LT	LEVEL TRANSMITTER	XA	ALARM STATUS
FP	FUEL PUMP	M	MOTOR	YSA	EMERGENCY SAFETY ALARM
FQM	FUEL QUALITY MONITOR	MAX	MAXIMUM	YSS	EMERGENCY SAFETY SWITCH
FS	FLOW SWITCH	MAV	MANUAL AIR VENT	ZA	POSITION ALARM
FSH	FLOW SWITCH HIGH	MC	MOTOR CONTROLLER	ZS	POSITION SWITCH
FSL	FLOW SWITCH LOW	MCC	MOTOR CONTROL CENTER	ZSO	POSITION SWITHC OPEN
FT	FEET	MISC	MISCELLANEOUS		
		MOV	MOTOR OPERATED VALVE		

NOTE: SEE C-001, S-001, M-001 AND E-001 FOR ADDITIONAL ABBREVIATIONS.

INSTRUMENTATION LEGEND

HS 102 / HOA — HS-100
- LOOP OR TAG NUMBER
- FUNCTION OF THE INDIVIDUAL INSTRUMENT
- FIRST LETTER INDICATES MEASURED OR INITIATING VARIABLE

LG / 100 — LG-100
- LOOP OR TAG NUMBER
- LAMP COLOR
- PILOT OR INDICATOR LIGHT

HS / 100 — FIELD MOUNTED INSTRUMENT

LI / 507 — PANEL MOUNTED INSTRUMENT

HS / 100 — MCC MOUNTED INSTRUMENT

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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EMAIL BY ANDREA LEMON
FOR COMMANDER NAVFAC 04/04/16
ACTIVITY
SATISFACTORY TO DATE 4/07/2016
DES DWN DRW WMG CHK WVB
<<PM/DM>> LET/RER
BRANCH MANAGER SE
CHIEF ENG/ARCH EJG
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VIRGINIA
CAMP LEMONNIER
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES

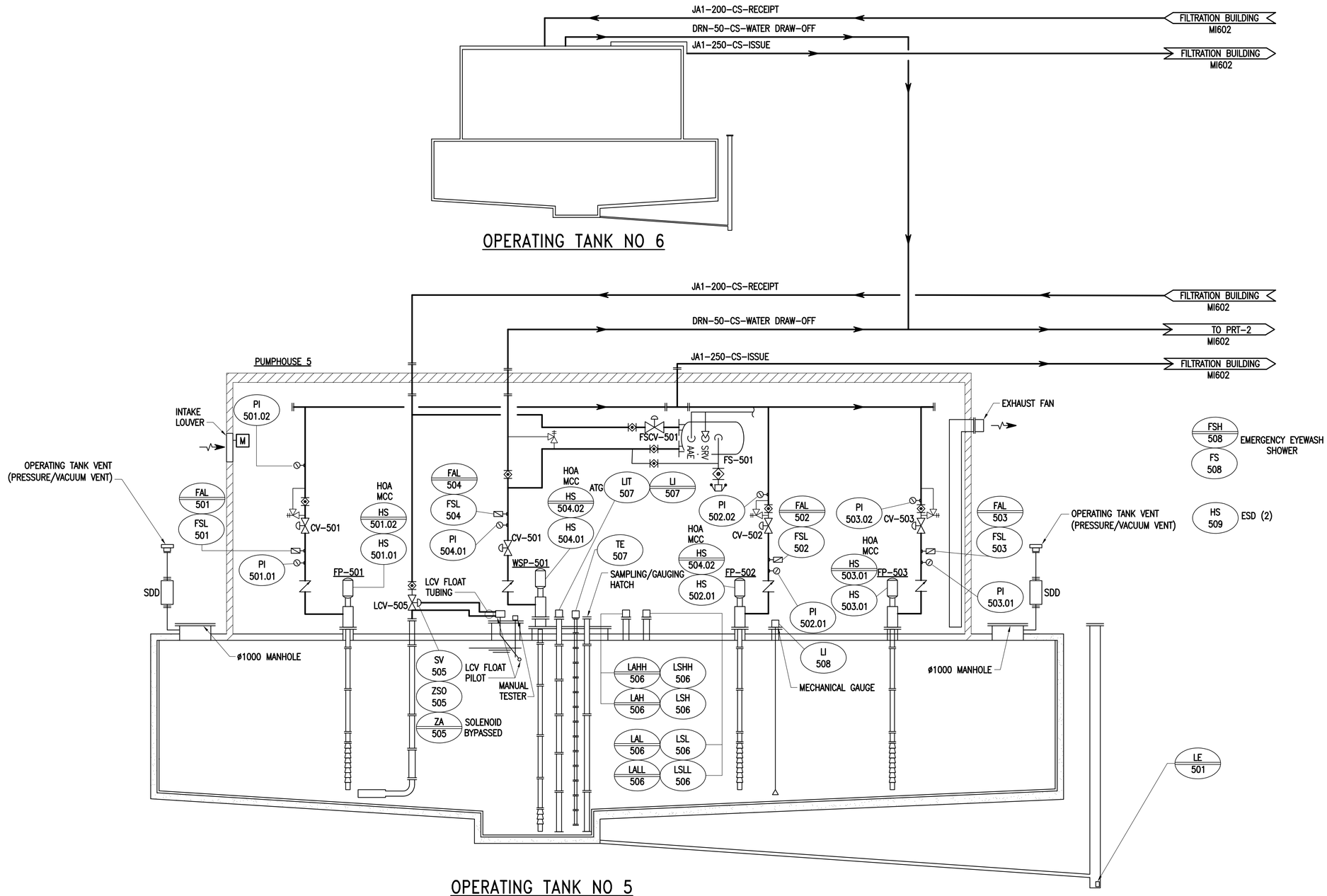
ABBREVIATIONS, LEGEND AND NOTES

SCALE: AS NOTED
PROJECT NO.:
WORK ORDER NO.
NAVFAC DRAWING NO. 14047108
SHEET 144 OF 186

MI001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFac LANT\CAD AutoCAD\M\M001 ABBREVIATIONS, LEGEND AND NOTES.dwg LAYOUT NAME: ABBREVIATIONS, LEGEND AND NOTES PLOTTED: Friday, March 25, 2016 - 9:24am USER: whermann



OPERATING TANKS NO 5 & NO 6 DIAGRAM

SCALE: NONE

SYM	DESCRIPTION	DATE	APPR

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
CAMP LEMONNIER
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES

FLOW DIAGRAM

SCALE: AS NOTED

PROJECT NO.:

WORK ORDER NO.

NAVFAC DRAWING NO.
14047109

SHEET 145 OF 186

MI601

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\MI\MI601 FLOW DIAGRAM.dwg LAYOUT NAME: FLOW DIAGRAM PLOTTED: Friday, March 25, 2016 - 9:24am USER: whermann

GROUNDING REEL

GROUNDING OVERFILL DEADMAN
XA 403
HS 403A PUMP START
HS 403B PUMP STOP
HS 403C ESD
CP-403

FSH 405
FS 405
EMERGENCY EYEWASH SHOWER

GROUNDING REEL

GROUNDING OVERFILL DEADMAN
XA 404
HS 404A PUMP START
HS 404B PUMP STOP
HS 404C ESD
CP-404

PI 403.02
SINGLE PLANE SWIVEL
REFUELER TRUCK LOADING STATION NO 3 (403)
METER PROVING CONNECTIONS
SV 403
PI 403.01
FQI 403
DPI 403
TFCV-403
FQI-403
150x100 RED
FE

PI 404.02
75ø x 3.0 LONG FUELING HOSE (TYP)
65ø D-1 NOZZLE W/HOSE END CONTROL VALVE AND DRY-BREAK DISCONNECT
REFUELER TRUCK LOADING STATION NO 4 (404)
LPD
METER PROVING CONNECTIONS
SV 404
PI 404.01
FQI 404
DPI 404
TFCV-404
FQI-404
150x100 RED
250x150 RED
FE

JA1-150-SS

PI 707.02
PI 707.01
FAL 707
FSL 707
HS 707 PUMP P-707
GAUGE (TYP)
CV-707
LOW POINT DRAIN W/HAND PUMP
LI 707
LEVEL SWITCHES
LSHH 707
LAHH 707
LSH 707
LAH 707
LSL 707
LAL 707
OV-707
ZS 707
MANUAL GAUGING HATCH
VENT
VENT
PRODUCT RECOVERY TANK NO 2
LEAK DETECTION
LSH 707
LAH 707

SRV-50-CS
DRN-50-CS
JA1-50-CS

JA1-200-CS
RECEIPT FROM OFF-LOADING STATIONS 1/2
LE 703 ROAD CROSSING 3 ROAD CROSSING
LE 702 ROAD CROSSING 2 LEAK DETECTION
JA1-200-SS

JA1-250-SS-ISSUE
DRN-50-CS

FI 702.03
FI 702.01
DPT 702.01
FI 702.02
DPT 702.02
PI 702
PIT 702.01
PI 704
PI 705
SS CS
JA1-200-CS-BYPASS LINE
BV-701
ø100
JA1-200-CS-BPCV BYPASS
ø150
BPCV-701
ø25

FS-PRT
FSCV-PRT
DPI 704

FI 701.03
FI 701.02
DPT 701.02
DPT 701.01
FI 701.01
IV-701
PI 701
PIT 701.01
PIT 702.01

FS-701
FS-702
FS-703
DPI 701
DPI 702
DPI 703
SV 701
FSCV-701
SV 702
FSCV-702
SV 703
FSCV-703
PI 703
PI 702

200 ISSUE/RECEIPT CROSS CONNECT
DRN-50-CS
JA1-200-CS-RECEIPT
JA1-200-CS-BYPASS
TO PRT-2
DRN-50-CS

JA1-200-SS F/S DISCHARGE HEADER
JA1-200-CS PUMP DISCHARGE HEADER
FILTER BUILDING

FSH 706
FS 706
HS 708
ESD (2)
EMERGENCY EYEWASH SHOWER

FROM TANK NO 5 JA1-200-CS-ISSUE
FROM TANK NO 6 JA1-200-CS-ISSUE
TO TANK NO 5 JA1-200-CS-RECEIPT
TO TANK NO 6 JA1-200-CS-RECEIPT

RECEIPT & TRANSFER TO TANKS 1/4 AND TRANSFER FROM TANKS 1/4
ISSUE TO REFUELER TRUCK LOADING STATIONS 1/2 & ISSUE FROM PUMP PAD TO REFUELER TRUCK LOADING STATIONS 3/4
RECEIPT CONNECTION, SEE MI603

JA1-200-CS-RECEIPT
JA1-200-CS-ISSUE
JA1-200-SS-ISSUE
JA1-200-SS-ISSUE
JA1-200-CS-RECEIPT
JA1-200-CS-RECEIPT

LE 701 ROAD CROSSING 1 LEAK DETECTION

FILTER BLDG AND REFUELER TRUCK LOADING STATIONS NO 3-4 DIAGRAM

SCALE: NONE

APPR	DATE	DESCRIPTION	SYM

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CHIEF ENG/ARCH
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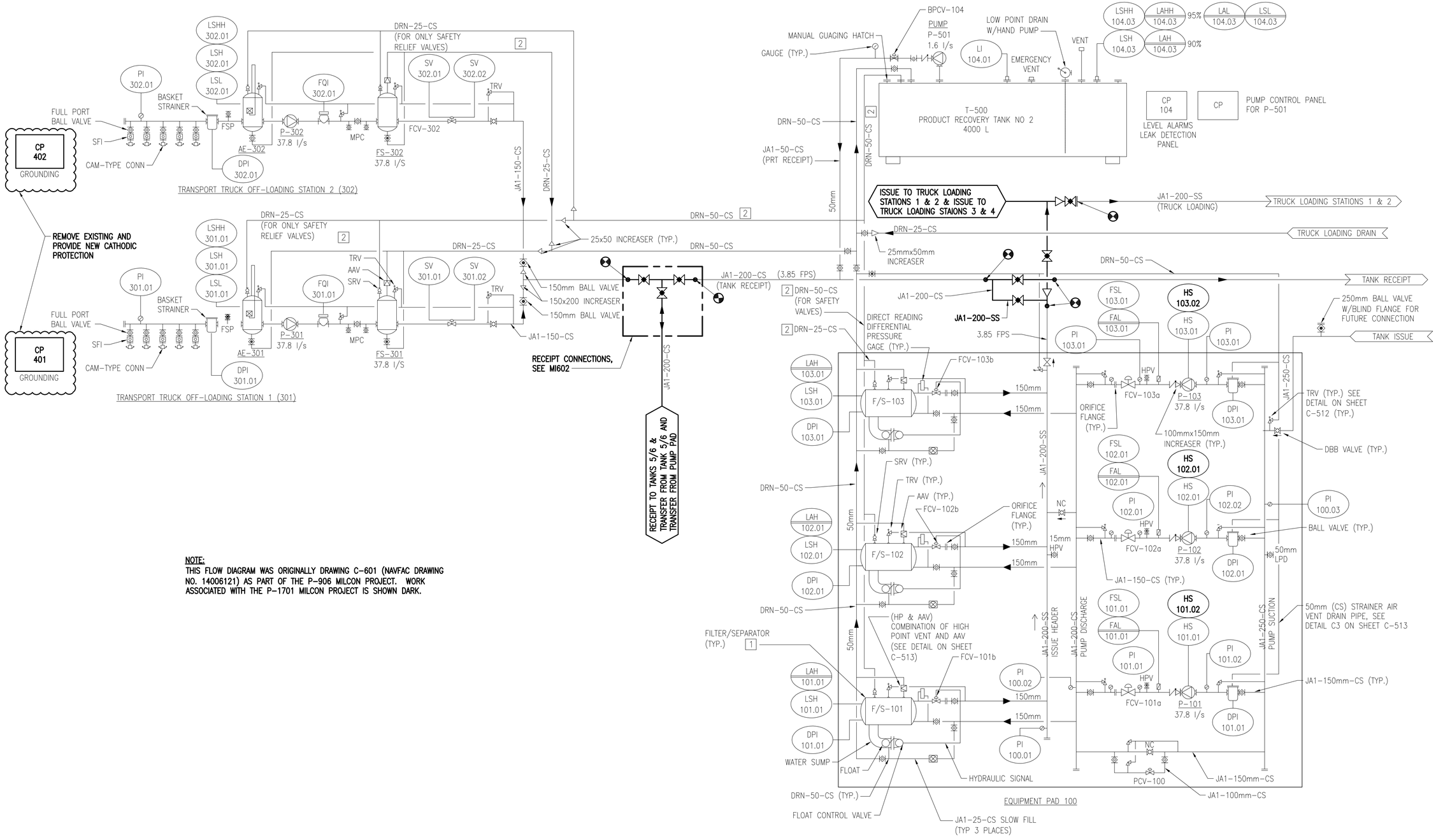
CAMP LEMONNIER
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
FLOW DIAGRAM

SCALE: AS NOTED
PROJECT NO.:
WORK ORDER NO.
NAVFAC DRAWING NO.
14047110
SHEET 146 OF 186
MI602
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\MI\MI602 FLOW DIAGRAM.dwg LAYOUT NAME: FLOW DIAGRAM PLOTTED: Friday, March 25, 2016 - 9:25am USER: whermann



NOTE:
THIS FLOW DIAGRAM WAS ORIGINALLY DRAWING C-601 (NAVFAC DRAWING NO. 14006121) AS PART OF THE P-906 MILCON PROJECT. WORK ASSOCIATED WITH THE P-1701 MILCON PROJECT IS SHOWN DARK.

EXISTING FUEL FARM FLOW DIAGRAM

SCALE: NONE

APPR | DATE | DESCRIPTION | SYM

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ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CAMP LEMONNIER
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES

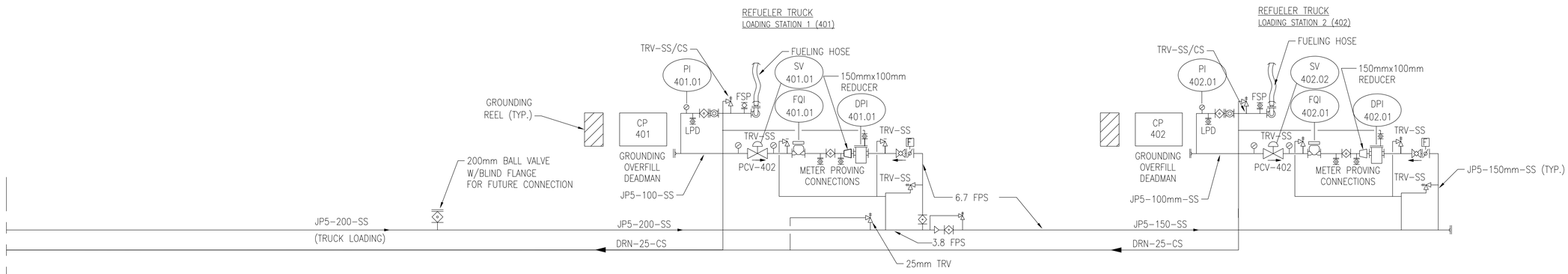
FLOW DIAGRAM

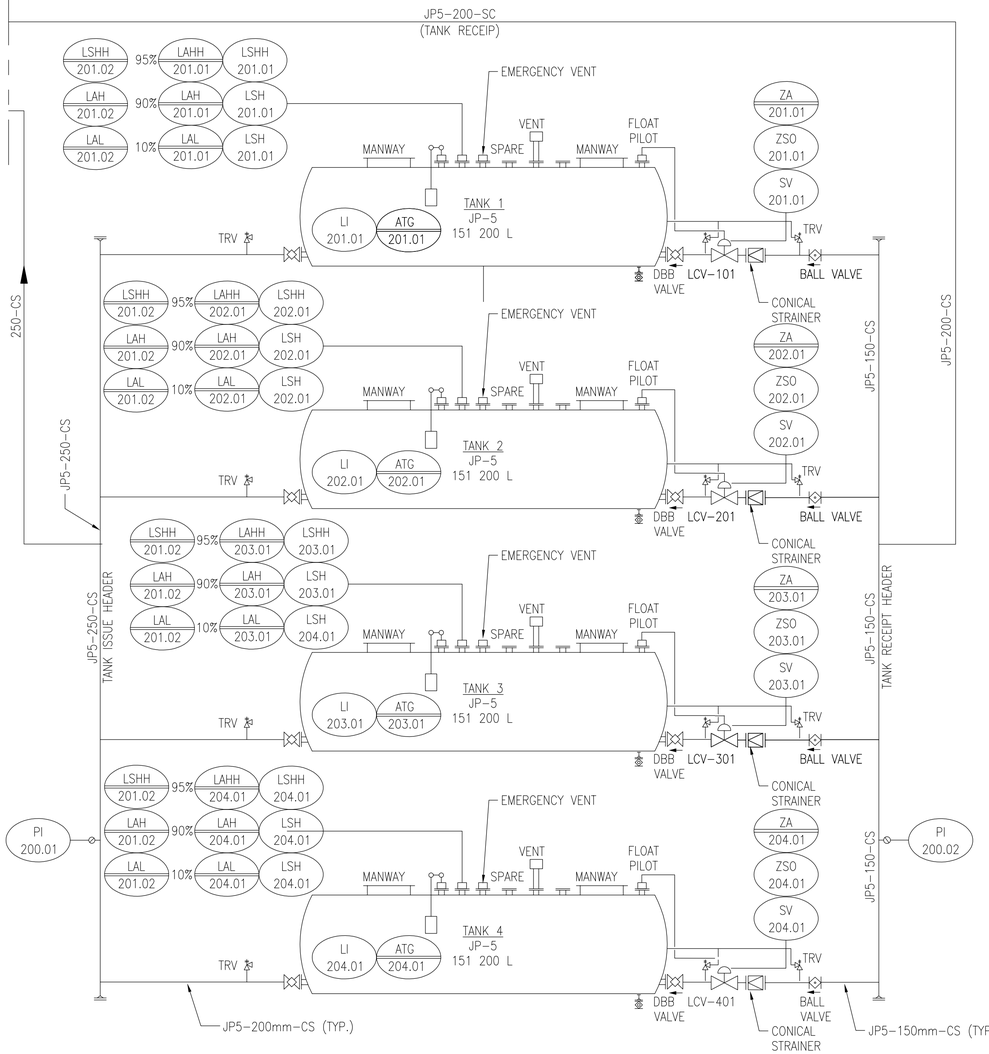
SCALE: AS NOTED
PROJECT NO.:
WORK ORDER NO.
NAVFAC DRAWING NO.
14047111
SHEET 147 OF 186

MI603

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\MI\MI603 FLOW DIAGRAM.dwg LAYOUT NAME: FLOW DIAGRAM PLOTTED: Friday, March 25, 2016 - 9:25am USER: whermann





GENERAL NOTES:

1. REFER TO SHEET C-512 FOR THERMAL RELIEF VALVE PIPING.

NOTE:
THIS FLOW DIAGRAM WAS ORIGINALLY DRAWING C-601 (NAVFAC DRAWING NO. 14006121) AS PART OF THE P-906 MILCON PROJECT AND IS PROVIDED FOR REFERENCE ONLY.

THERE IS NO NEW WORK SHOWN ON THIS SHEET

FUEL FARM FLOW DIAGRAM

SCALE: NONE

APPR	DATE	DESCRIPTION	SYM

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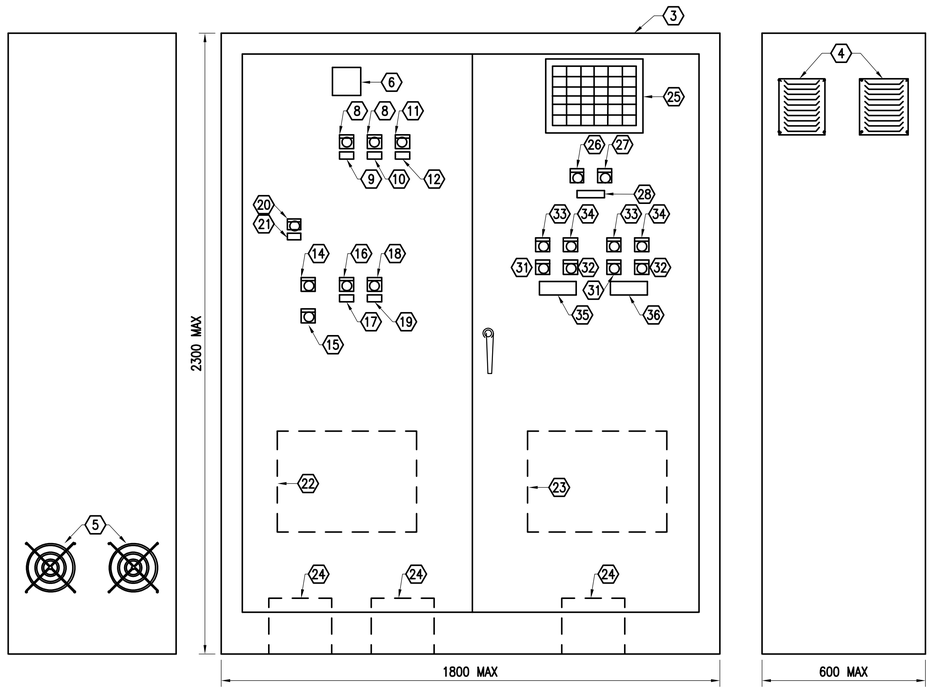
NORFOLK, VIRGINIA
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES

FUEL FARM FLOW DIAGRAM

SCALE: AS NOTED
PROJECT NO.:
WORK ORDER NO.
NAVFAC DRAWING NO.
14047112
SHEET 148 OF 186
MI604
DRAWFORM REVISION: 10 MARCH 2009

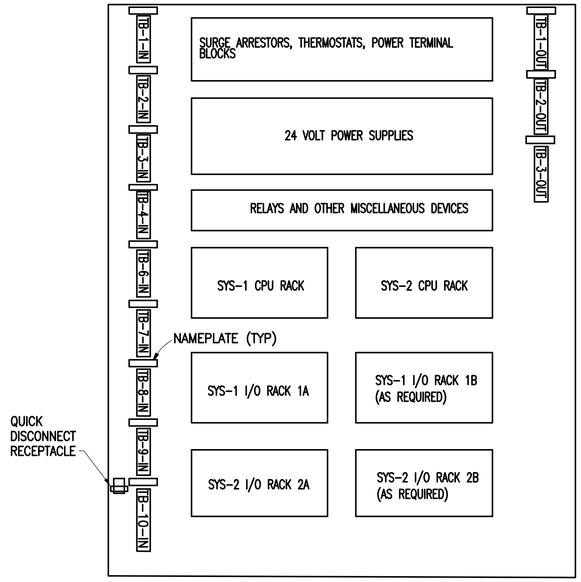
FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\MI\MI604 FUEL FARM FLOW DIAGRAM.dwg LAYOUT NAME: FUEL FARM FLOW DIAGRAM PLOTTED: Friday, March 25, 2016 - 9:25am USER: whermann



LEFT SIDE VIEW | FRONT VIEW | RIGHT SIDE VIEW

PUMP CONTROL PANEL (PCP)

SCALE: NONE

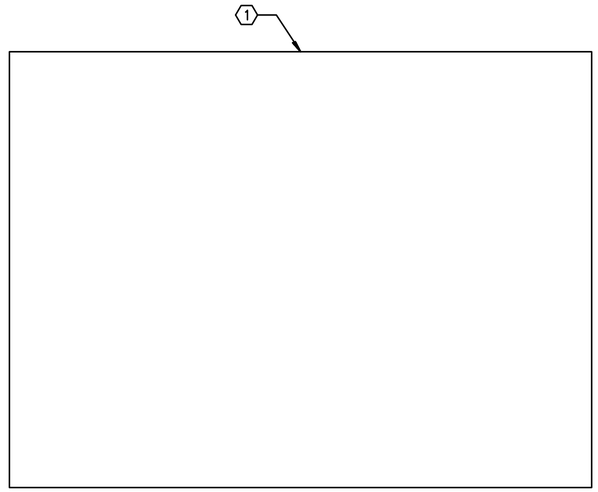


INTERIOR BACKPLAIN MOUNTING PANEL

SCALE: NONE

NOTES:

1. PROVIDE WIRE MANAGEMENT DUCTS.
2. FOLLOW THE ABOVE LAYOUT AS CLOSE AS POSSIBLE TO PROVIDE UNIFORMITY WITH EXISTING AND FUTURE FUELING SYSTEM CONTROL PANELS.



ANNUNCIATOR PANEL

SCALE: NONE

PUMP CONTROL PANEL LEGEND

ITEM	DESCRIPTION
1	LED DISPLAY PANEL (SEE SHEET MI606)
2	NOT USED
3	FREE STANDING ENCLOSURE
4	VENTS
5	FANS
6	VIBRATING ALARM HORN (70db at 3.048M)
7	NOT USED
8	GREEN INDICATOR LIGHT
9	NAMEPLATE "CPU-1 ON"
10	NAMEPLATE "CPU-2 ON"
11	WHITE INDICATOR LIGHT
12	NAMEPLATE "EMERGENCY CIRCUIT POWER ON"
13	NOT USED
14	RED JUMBO MUSHROOM MOMENTARY CONTACT PUSHBUTTON WITH LEGEND PLATE "EMERGENCY STOP"
15	MOMENTARY CONTACT PUSHBUTTON WITH LEGEND PLATE "EMERGENCY STOP RESET"

PUMP CONTROL PANEL LEGEND CONT

ITEM	DESCRIPTION
16	2 POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH LEGEND PLATE "SYS-1 SYS-2"
17	NAMEPLATE "SYSTEM INPUT SELECT"
18	3 POSITION KEY OPERATED MAINTAINED CONTACT SELECTOR SWITCH WITH LEGEND PLATE "COMBINED OFF SEPARATE"
19	NAMEPLATE "FUELING MODE SELECT"
20	6 POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH LEGEND PLATE "501 502 503 601 602 603" (CIRCULAR AROUND SWITCH)
21	NAMEPLATE "LEAD FUEL PUMP"
22	LOCKABLE CABINET LOCATED WITHIN THE PCP FOR THE LAPTOP COMPUTER.
23	CABINET WITHIN PCP FOR SPARE PARTS
24	UNINTERUPTABLE POWER SUPPLY (UPS) WITHIN CABINET
25	BACKLIGHT WINDOW ANNUNCIATOR, SEE SHEET EI601
26	MOMENTARY CONTACT PUSHBUTTON WITH LEGEND PLATE "TEST"
27	MOMENTARY CONTACT PUSHBUTTON WITH LEGEND PLATE "ACKNOWLEDGE"
28	NAMEPLATE "ANNUNCIATOR SYSTEM"
29	NOT USED
30	NOT USED

PUMP CONTROL PANEL LEGEND CONT

ITEM	DESCRIPTION
31	MOMENTARY CONTACT PUSHBUTTON WITH LEGEND PLATE "START"
32	MOMENTARY CONTACT PUSHBUTTON WITH LEGEND PLATE "STOP"
33	GREEN MINI-INDICATOR LIGHT WITH LEGEND PLATE "RUN"
34	RED MINI-INDICATOR LIGHT WITH LEGEND PLATE "STOP"
35	NAMEPLATE "WATER SUMP PUMP - WSP-501"
36	NAMEPLATE "WATER SUMP PUMP - WSP-601"

APPR | DATE | DESCRIPTION | SYM

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CHIEF ENG/ARCH
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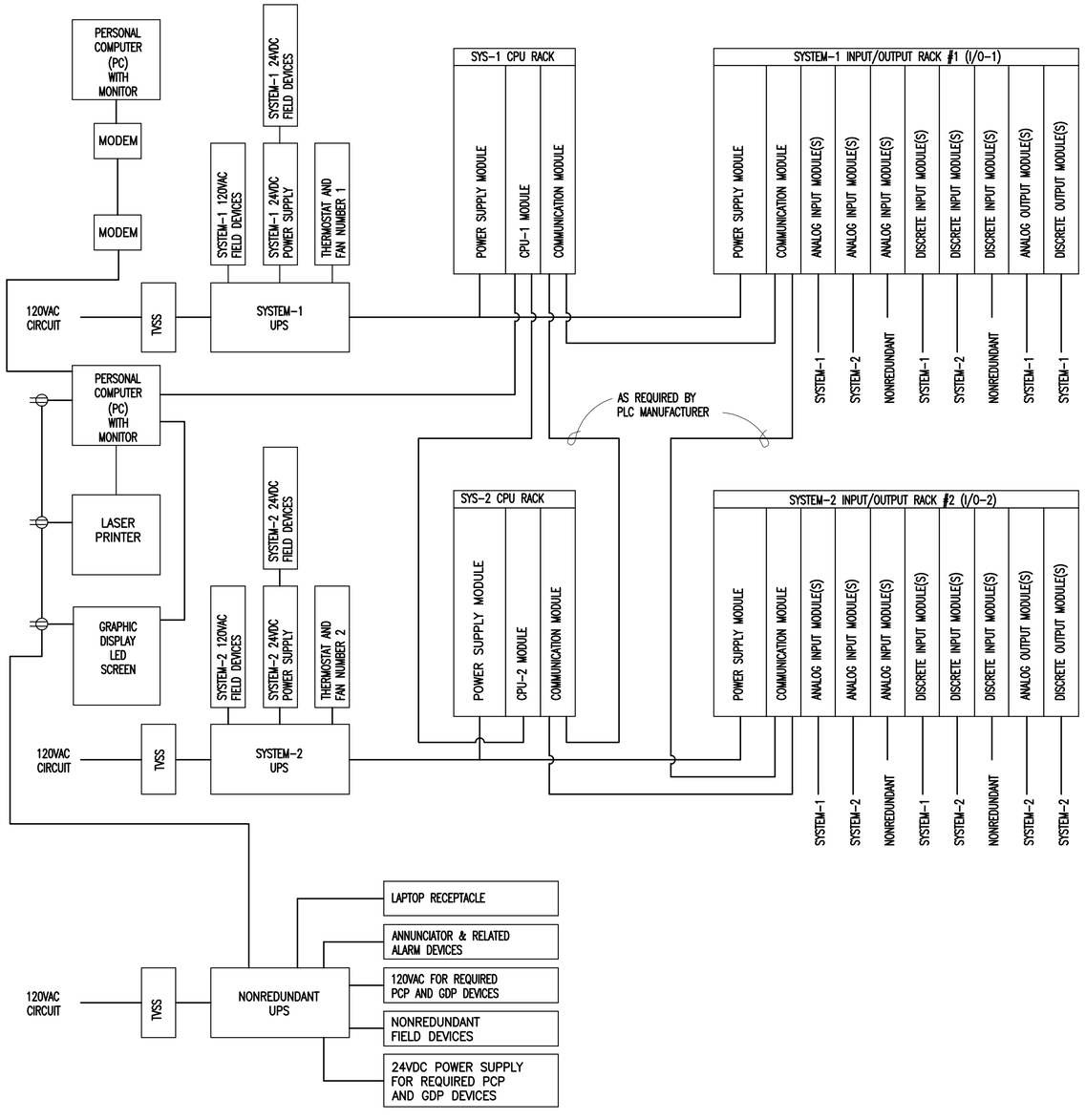
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES

PUMP CONTROL PANEL ELEVATION

SCALE: AS NOTED
PROJECT NO.:
WORK ORDER NO.
NAVFAC DRAWING NO.
14047113
SHEET 149 OF 186
MI605
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\MI\MI605 PUMP CONTROL PANEL ELEVATION.dwg LAYOUT NAME: PUMP CONTROL PANEL ELEVATION PLOTTED: Friday, March 25, 2016 - 9:25am USER: wherrmann



CONTROL SYSTEM BLOCK DIAGRAM

SCALE: NONE

OPERATING TANK T-5 HIGH-HIGH LEVEL (RED)	OPERATING TANK T-6 HIGH-HIGH LEVEL (RED)	TANK T-5 FUEL PUMP FP-501 FLOW FAILURE (WHITE)	TANK T-6 FUEL PUMP FP-601 FLOW FAILURE (WHITE)	EMERGENCY STOP (RED)	FILTER BUILDING EMERGENCY SHOWER ACTIVATED (WHITE)
OPERATING TANK T-5 HIGH LEVEL (WHITE)	OPERATING TANK T-6 HIGH LEVEL (WHITE)	TANK T-5 FUEL PUMP FP-502 FLOW FAILURE (WHITE)	TANK T-6 FUEL PUMP FP-602 FLOW FAILURE (WHITE)	SYSTEM-1 PLC FAILURE (WHITE)	PUMPHOUSE 5 EMERGENCY SHOWER ACTIVATED (WHITE)
OPERATING TANK T-5 LOW LEVEL (WHITE)	OPERATING TANK T-6 LOW LEVEL (WHITE)	TANK T-5 FUEL PUMP FP-503 FLOW FAILURE (WHITE)	TANK T-6 FUEL PUMP FP-603 FLOW FAILURE (WHITE)	SYSTEM-2 PLC FAILURE (WHITE)	PUMPHOUSE 6 EMERGENCY SHOWER ACTIVATED (WHITE)
OPERATING TANK T-5 LOW-LOW LEVEL (RED)	OPERATING TANK T-6 LOW-LOW LEVEL (RED)	TANK T-5 LEAK DETECTED (WHITE)	TANK T-6 LEAK DETECTED (WHITE)	SYSTEM-1 DATA FAILURE (WHITE)	TRUCK LOADING EMERGENCY SHOWER ACTIVATED (WHITE)
PRODUCT RECOVERY TANK HIGH-HIGH LEVEL (RED)	PRODUCT RECOVERY TANK LEAK DETECTED (WHITE)	ROAD CROSSING #1 LEAK DETECTED (WHITE)	ROAD CROSSING #2 LEAK DETECTED (WHITE)	SYSTEM-2 DATA FAILURE (WHITE)	SPARE (WHITE)
PRODUCT RECOVERY TANK HIGH LEVEL (WHITE)	PRODUCT RECOVERY TANK OVERFILL VALVE CLOSED (WHITE)	PRODUCT RECOVERY TANK FLOW FAILURE (WHITE)	ROAD CROSSING #3 LEAK DETECTED (WHITE)	PCP HIGH TEMPERATURE (WHITE)	SPARE (WHITE)

ANNUNCIATOR PANEL LAYOUT

SCALE: NONE

NOTES:

1. (WHITE) – WHITE WINDOW WITH BLACK LETTERS.
2. (RED) – RED WINDOW WITH WHITE LETTERS.
3. RED WINDOW ALARMS (CRITICAL) SHALL SOUND THE EXTERIOR RESONATING HORN AND PUMP CONTROL PANEL HORN. THE WHITE WINDOW ALARMS (NON-CRITICAL) SHALL SOUND THE EXTERIOR VIBRATING HORN AND THE PUMP CONTROL PANEL HORN.
4. CRITICAL ALARMS SHALL STOP ALL PUMPS RUNNING IN AUTOMATIC MODE.

APPR | DATE | DESCRIPTION | SYM

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NORFOLK, VIRGINIA
CAMP LEMONNIER
DJIBOUTI AFRICA

DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES

CONTROL SYSTEM DIAGRAMS

SCALE: AS NOTED
PROJECT NO.:
WORK ORDER NO.

NAVFAC DRAWING NO.
14047114
SHEET 150 OF 186

MI606

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\MI\MI606 CONTROL system diagroms.dwg LAYOUT NAME: CONTROL SYSTEM DIAGRAMS PLOTTED: Friday, March 25, 2016 - 9:26am USER: wherrmann