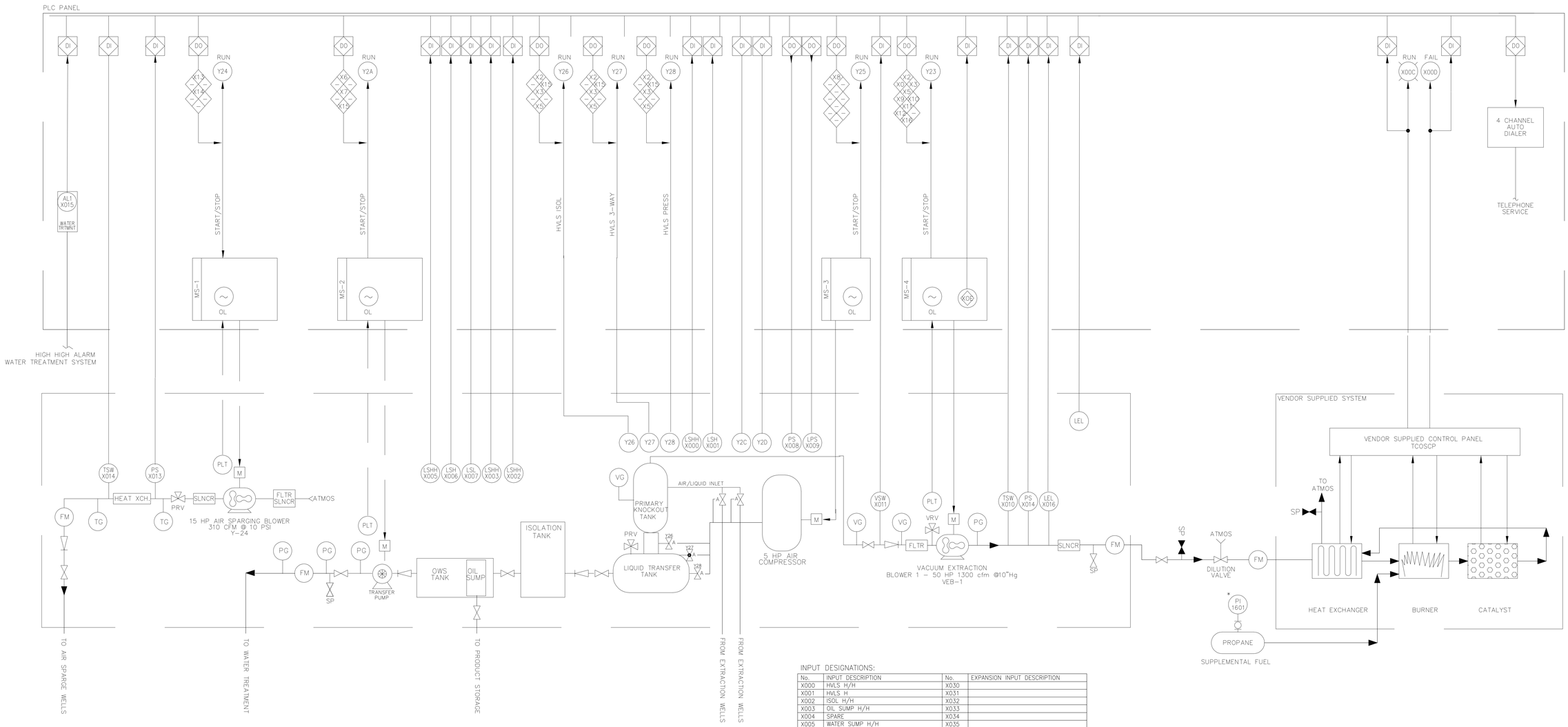


INPUT DESIGNATIONS:

| No. | INPUT DESCRIPTION | No. | EXPANSION INPUT DESCRIPTION |
|---|---|---|---|
| X000 | HVLS H/H | X030 | |
| X001 | HVLS H | X031 | |
| X002 | ISOL H/H | X032 | |
| X003 | OIL SUMP H/H | X033 | |
| X004 | SPARE | X034 | |
| X005 | WATER SUMP H/H | X035 | |
| X006 | WATER SUMP H | X036 | |
| X007 | WATER SUMP LOW | X037 | |
| X008 | COMP PRESS SWITCH | X038 | |
| X009 | COMP LOW PRESS SWITCH | X039 | |
| X00A | ROOM THERMOSTAT | X03A | |
| X00B | RESET | X03B | |
| X00C | OXIDIZER RUN | X03C | |
| X00D | OXIDIZER FAIL | X03D | |
| X00E | *SPARE | X03E | |
| X00F | LOBE LEL | X03F | |
| X010 | LOBE TEMP | | |
| X011 | LOBE VAC | | |
| X012 | LOBE PRESSURE | | |
| X013 | LOBE #2 PRESSURE | | |
| X014 | LOBE #2 TEMP | | |
| X015 | LEL ALARM | | |
| X016 | WATER TREATMENT ALARM | | |
| X017 | HVLS DEMISTER H/H | | |

OUTPUT DESIGNATIONS:

| No. | OUTPUT DESCRIPTION | No. | EXPANSION INPUT DESCRIPTION |
|---|---|---|---|
| Y-20 | *SPARE | 0000 | |
| Y-21 | *SPARE | 00012 | |
| Y-22 | *SPARE | 00023 | |
| Y-23 | VAC PUMP | 00034 | |
| Y-24 | PRESSURE PUMP | 00045 | |
| Y-25 | COMP | 0005 | |
| Y-26 | HVLS ISOL | 0006 | |
| Y-27 | HVLS 3 WAY | 00078 | |
| Y-28 | HVLS PRESS | 00089 | |
| Y-29 | *SPARE | 00091 | |
| Y-2A | WATER TRANSFER PUMP | 000A | |
| Y-2B | DAMPER | 000B | |
| Y-2C | INLET LINE 1 | 000C | |
| Y-2D | INLET LINE 2 | 000D | |
| Y-2E | INLET LINE 3 | 000E | |
| Y-2F | INLET LINE 4 | 000F | |

ANALOG INPUTS

| No. | DESCRIPTION | REFERENCE 4-20 Ma | INPUT/OUTPUT |
|---|---|---|---|
| 301 | | 4-20 Ma | INPUT |
| 302 | | 4-20 Ma | INPUT |
| 303 | | 4-20 Ma | INPUT |
| 304 | | 4-20 Ma | INPUT |
| 305 | | 4-20 Ma | INPUT |
| 306 | | 4-20 Ma | INPUT |

NOTES

1. REFER TO IO LIST FOR DESIGNATIONS
2. OWNER DEFINED ALARMS DURING CONSTRUCTION. CONTRACTOR PROGRAMED PLC AND AUTODIALER ACCORDINGLY.
3. ALL ALARMS ARE INDIVIDUALLY DISPLAYED ON THE CONTROL PANEL
4. GENERAL CONTROL FUNCTIONS ARE VIA THE PROGRAMMABLE LOGIC CONTROLLER. PROTECTIVE INTERLOCKS FOR CRITICAL EQUIPMENT ARE VIA HARD WIRED RELAYS

PG PRESSURE GAUGE
VG VACUUM GAUGE
PLT HAND SWITCH
LSHH LEVEL SWITCH HIGH HIGH
LSH LEVEL SWITCH HIGH
LSL LEVEL SWITCH LOW
TG TEMPERATURE GAUGE
FM FLOW METER
M MOTOR
TSW TEMP SWITCH
PS PRESSURE SWITCH
VSW VACUUM SWITCH
LEL LOWER EXPLOSIVE LIMIT SENSOR
SP SAMPLE PORT
REGULATING VALVE
CHECK VALVE
PRESSURE/VACUUM RELIEF VAVLE
3-WAY VALVE

FINAL AS-BUILT

US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS
BALTIMORE, MARYLAND

SOURCE AREA REMEDIAL SYSTEM
GASOLINE ALLEY AREAS 3805 & 1995
FORT DRUM, NEW YORK

AREA 3805
SYSTEM A PIPING AND
INSTRUMENTATION DIAGRAM

EA ENGINEERING, P.C.

| DRAWING NUMBER | PLATE |
|---|---|
| N/A | M-5 |

SCALE: AS NOTED | DATE: SEPT. 2004 | SHEET 5

FILE: Syracuse_fp/Syracuse/Working Projects\Fort Drum Projects\MARC\Design\drawings from lovetsn\final design drawings\M-5.dwg [Layout1]