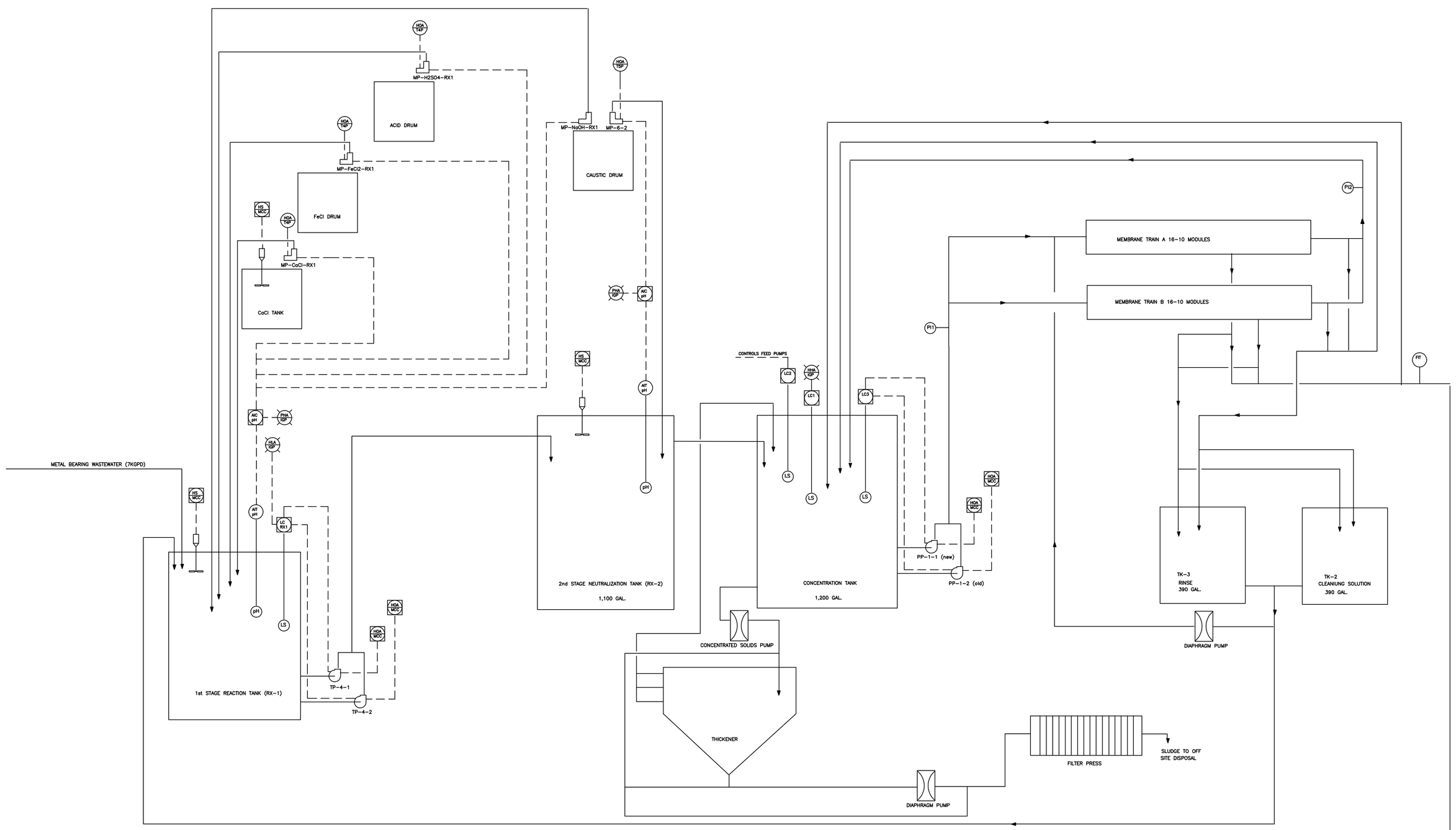

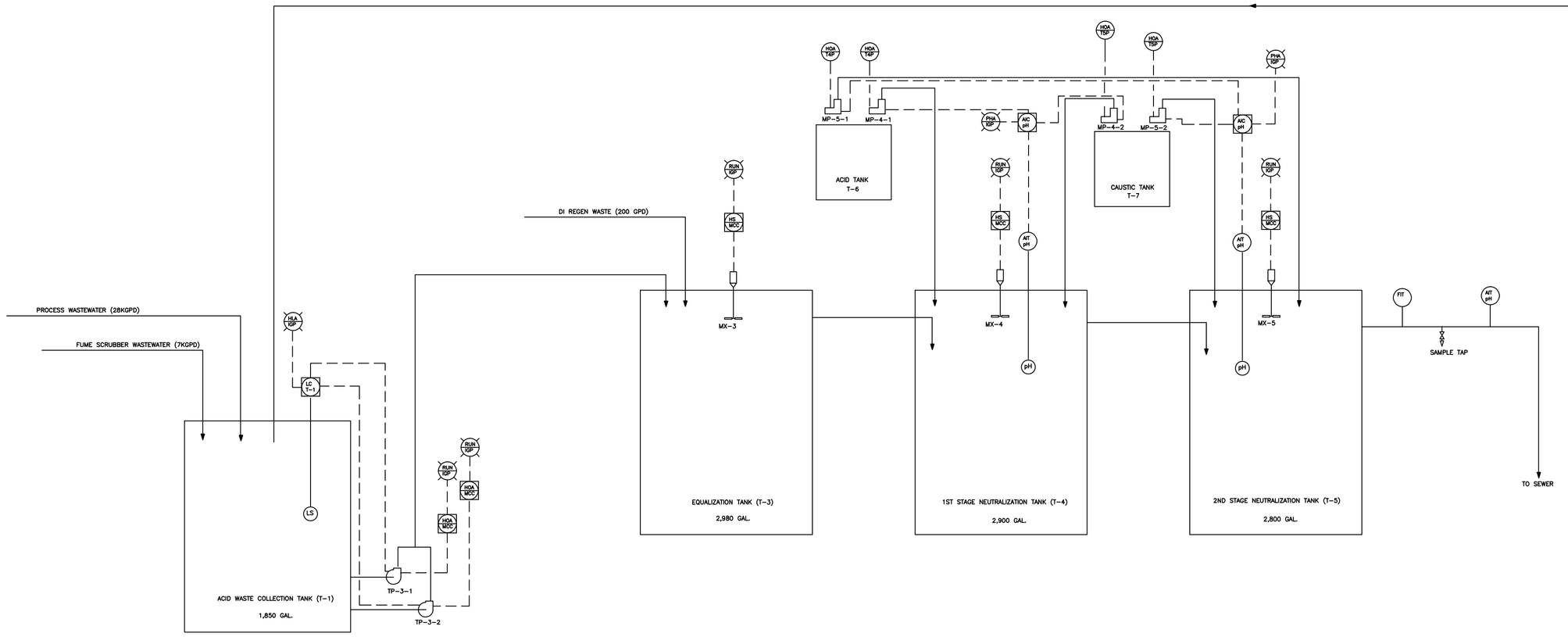

PROCESS SYMBOLS LEGEND

- HORIZONTAL CENTRIFUGAL PUMP
- CHEMICAL METERING PUMP
- MIXER
- BALL VALVE (NORMALLY OPEN)
- BALL VALVE (NORMALLY CLOSED)
- CHECK VALVE
- DIAPHRAGM VALVE
- REDUCER
- HOSE END DRAIN VALVE
- SAMPLE TAP WITH HOSE BARB

INSTRUMENTATION LEGEND

- CONTROL SIGNAL
- COMMUNICATIONS LINK
- XXX — FIELD MOUNTED DEVICE
- XXX XXX — LOCAL PANEL MOUNTED DEVICE
- XXX XXX — PANEL MOUNTED INDICATOR LIGHT
- XXX XXX — COMPUTER OPERATED INTERFACE
- XXX XXX — PROGRAMMABLE LOGIC CONTROLLER (ANALOG)
- XXX XXX — PROGRAMMABLE LOGIC CONTROLLER (DISCRETE)
- XXX XXX — PANEL MOUNTED DEVICE

AAH	ANALOG ALARM HIGH
AAL	ANALOG ALARM LOW
AE	ANALOG ELEMENT
AI	ANALOG INDICATOR
AIT	ANALOG INDICATOR/TRANSMITTER
AR	ANALOG RECORDER
FE	FLOW ELEMENT
FIT	FLOW INDICATOR/TOTALIZER
HOA	HAND/OFF/AUTOMATIC
HS	HAND SWITCH
LAH	LEVEL ALARM HIGH
LAL	LEVEL ALARM LOW
LC	LEVEL CONTROLLER
LI	LEVEL INDICATOR
PAL	PH LOW ALARM
PAH	PH HIGH ALARM
PAA	PH LOW/HIGH ALARM
LL	LEVEL SWITCH LOW
LT	LEVEL TRANSMITTER
MP	METERING PUMP
SIL	SILENCE
MCC	MOTOR CONTROL CENTER
IGP	INSTRUMENTATION/GRAPHICS PANEL

NO	DATE	REVISION

SIGN BY:
DRAWN BY: CAW
CHECKED BY:
ENGINEER:

EBI CONSULTING

CLIENT: M/A-COM, INC.
100 CHELMSFORD STREET, LOWELL, MA

PROJECT: INDUSTRIAL WASTEWATER PRETREATMENT SYSTEM

DRAWING TITLE: PROCESS & INSTRUMENTATION DIAGRAM

PROJECT NO. 2108005
DATE 03/20/08
SCALE NO SCALE
DRAWING NO.
P001
REV 0