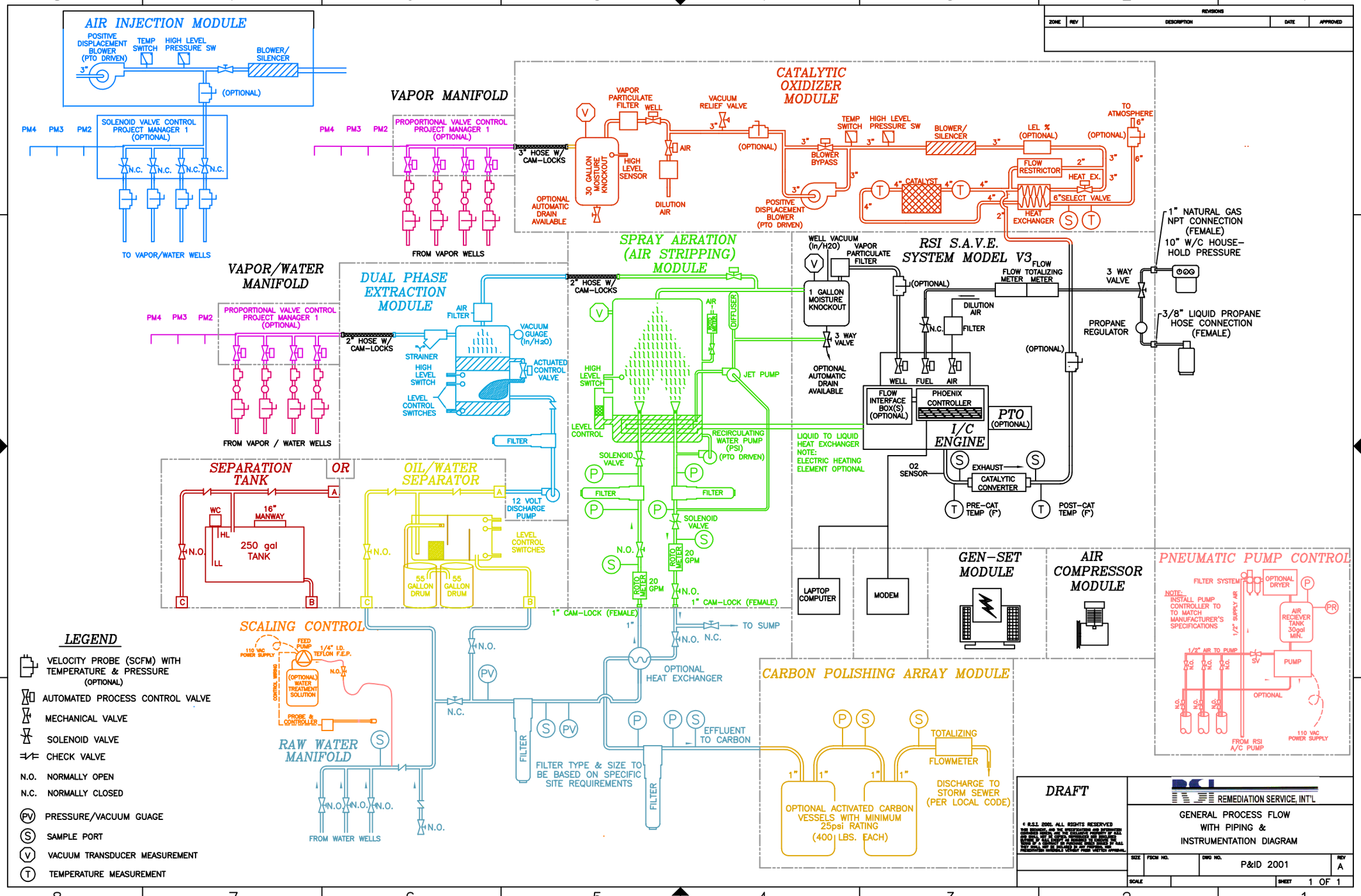
AIR INJECTION MODULE
POSITIVE DISPLACEMENT BLOWER (PTO DRIVEN)
TEMP SWITCH
HIGH LEVEL PRESSURE SW
BLOWER/ SILENCER
(OPTIONAL)
SOLENOID VALVE CONTROL PROJECT MANAGER 1 (OPTIONAL)
PM4 PM3 PM2
N.C.
TO VAPOR/WATER WELLS
VAPOR MANIFOLD
PROPORTIONAL VALVE CONTROL PROJECT MANAGER 1 (OPTIONAL)
3" HOSE W/ CAM-LOCKS
FROM VAPOR WELLS
CATALYTIC OXIDIZER MODULE
VAPOR PARTICULATE FILTER
WELL
VACUUM RELIEF VALVE
30 GALLON MOISTURE KNOCKOUT
HIGH LEVEL SENSOR
AIR
DILUTION AIR
OPTIONAL AUTOMATIC DRAIN AVAILABLE
BLOWER BYPASS
POSITIVE DISPLACEMENT BLOWER (PTO DRIVEN)
CATALYST
FLOW RESTRICTOR
HEAT EX.
6"SELECT VALVE
HEAT EXCHANGER
LEL % (OPTIONAL)
TO ATMOSPHERE
VAPOR/WATER MANIFOLD
DUAL PHASE EXTRACTION MODULE
2" HOSE W/ CAM-LOCKS
AIR FILTER
VACUUM GUAGE (In/H20)
STRAINER
HIGH LEVEL SWITCH
LEVEL CONTROL SWITCHES
ACTUATED CONTROL VALVE
FILTER
FROM VAPOR / WATER WELLS
SPRAY AERATION (AIR STRIPPING) MODULE
DIFFUSER
JET PUMP
LEVEL CONTROL
SOLENOID VALVE
RECIRCULATING WATER PUMP (PSI) (PTO DRIVEN)
ROTO METER
20 GPM
1" CAM-LOCK (FEMALE)
TO SUMP
OPTIONAL HEAT EXCHANGER
EFFLUENT TO CARBON
FILTER TYPE & SIZE TO BE BASED ON SPECIFIC SITE REQUIREMENTS
RSI S.A.V.E. SYSTEM MODEL V3
WELL VACUUM (In/H20)
1 GALLON MOISTURE KNOCKOUT
3 WAY VALVE
FLOW METER
FLOW TOTALIZING METER
DILUTION AIR
WELL FUEL AIR
FLOW INTERFACE BOX(S) (OPTIONAL)
PHOENIX CONTROLLER
PTO (OPTIONAL)
I/C ENGINE
LIQUID TO LIQUID HEAT EXCHANGER
NOTE: ELECTRIC HEATING ELEMENT OPTIONAL
O2 SENSOR
EXHAUST
CATALYTIC CONVERTER
PRE-CAT TEMP (F°)
POST-CAT TEMP (F°)
1" NATURAL GAS NPT CONNECTION (FEMALE)
10" W/C HOUSE-HOLD PRESSURE
PROPANE REGULATOR
3/8" LIQUID PROPANE HOSE CONNECTION (FEMALE)
SEPARATION TANK
OR
OIL/WATER SEPARATOR
16" MANWAY
250 gal TANK
WC
HL
LL
N.O.
12 VOLT DISCHARGE PUMP
LEVEL CONTROL SWITCHES
55 GALLON DRUM
LAPTOP COMPUTER
MODEM
GEN-SET MODULE
AIR COMPRESSOR MODULE
PNEUMATIC PUMP CONTROL
FILTER SYSTEM
OPTIONAL DRYER
AIR RECIEVER TANK 30gal MIN.
PUMP
1/2" AIR TO PUMP
1/2" SUPPLY AIR
OPTIONAL
FROM RSI A/C PUMP
110 VAC POWER SUPPLY
SCALING CONTROL
FEED PUMP
1/4" LD. TEFLON F.E.P.
110 VAC POWER SUPPLY
(OPTIONAL) WATER TREATMENT SOLUTION
PROBE & CONTROLLER
RAW WATER MANIFOLD
FROM WATER WELLS
CARBON POLISHING ARRAY MODULE
TOTALIZING FLOWMETER
OPTIONAL ACTIVATED CARBON VESSELS WITH MINIMUM 25psi RATING (400 LBS. EACH)
DISCHARGE TO STORM SEWER (PER LOCAL CODE)
LEGEND
VELOCITY PROBE (SCFM) WITH TEMPERATURE & PRESSURE (OPTIONAL)
AUTOMATED PROCESS CONTROL VALVE
MECHANICAL VALVE
SOLENOID VALVE
CHECK VALVE
N.O. NORMALLY OPEN
N.C. NORMALLY CLOSED
PV PRESSURE/VACUUM GUAGE
S SAMPLE PORT
V VACUUM TRANSDUCER MEASUREMENT
T TEMPERATURE MEASUREMENT
DRAFT
REMEDIATION SERVICE, INT'L
GENERAL PROCESS FLOW WITH PIPING & INSTRUMENTATION DIAGRAM
P&ID 2001
SHEET 1 OF 1
2/26/2001
M.SODERGREN