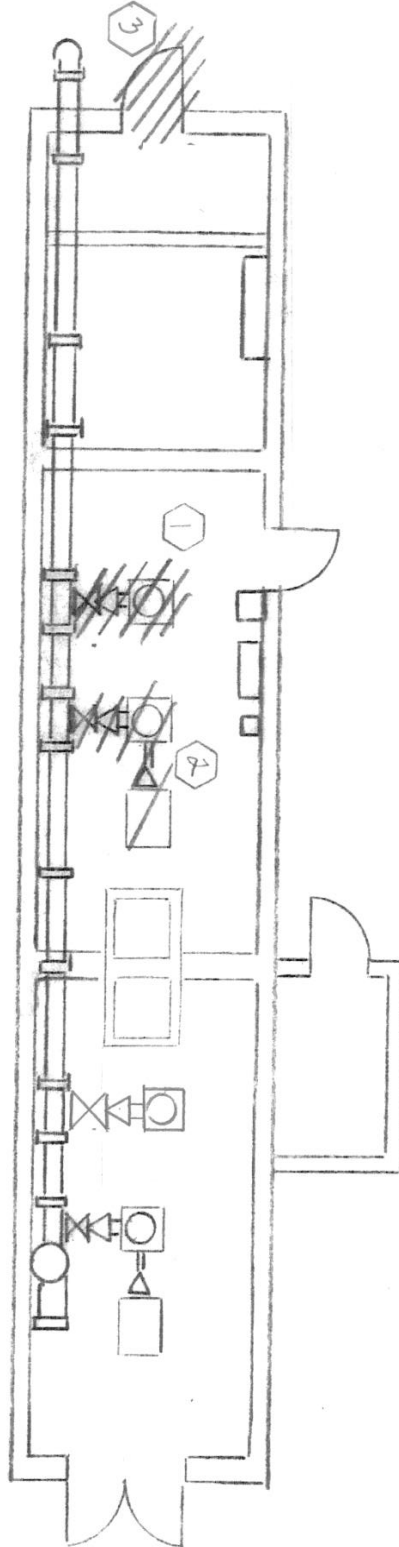


KEYED NOTES, DEMOLISH:

- ① Pump, Motor, Check valve, Gate, valve
- ② Check valve, Gate valve
- ③ DDDR AND FRAME



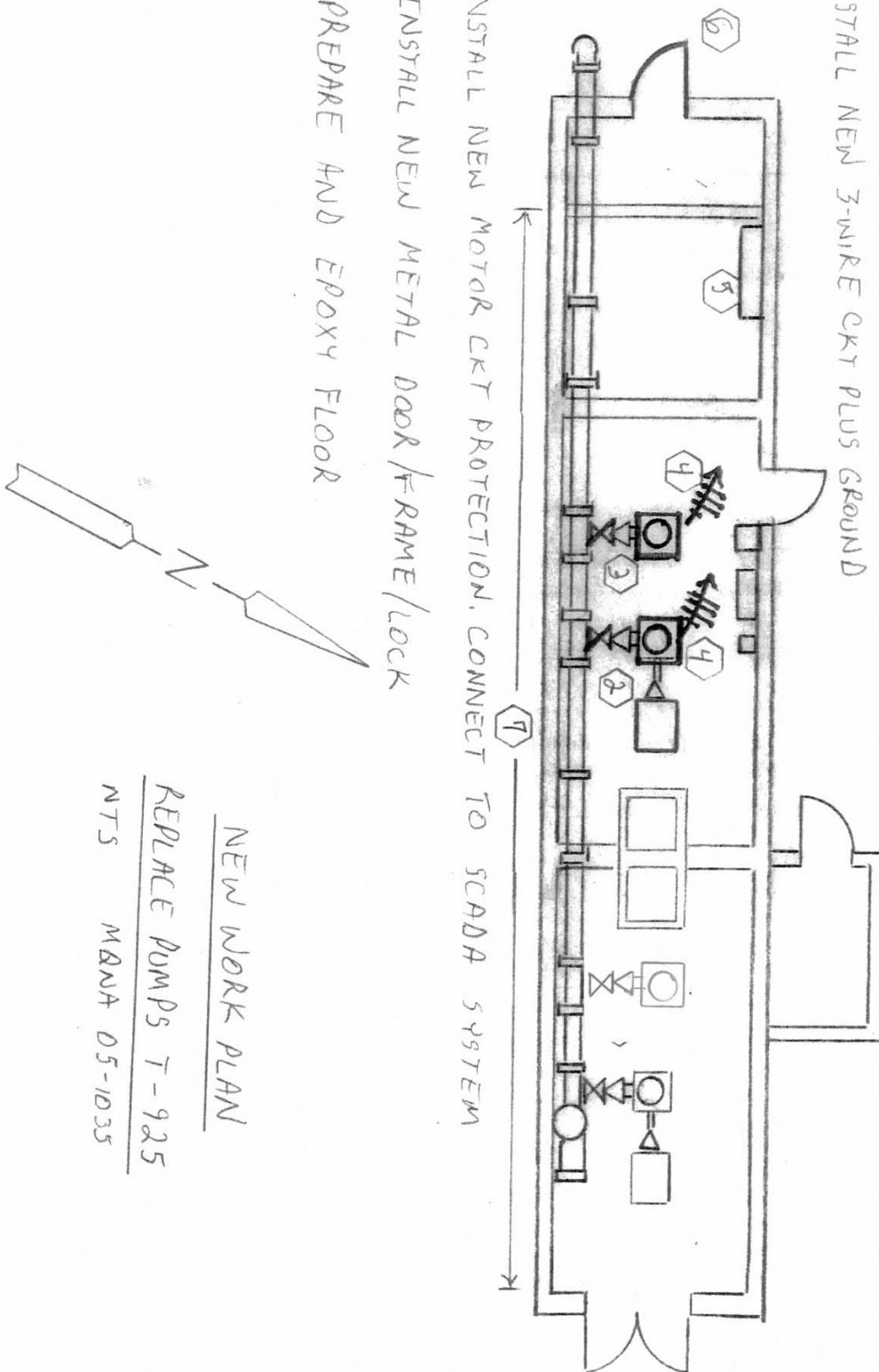
DEMOLITION PLAN

REPLACE PUMPS T-925

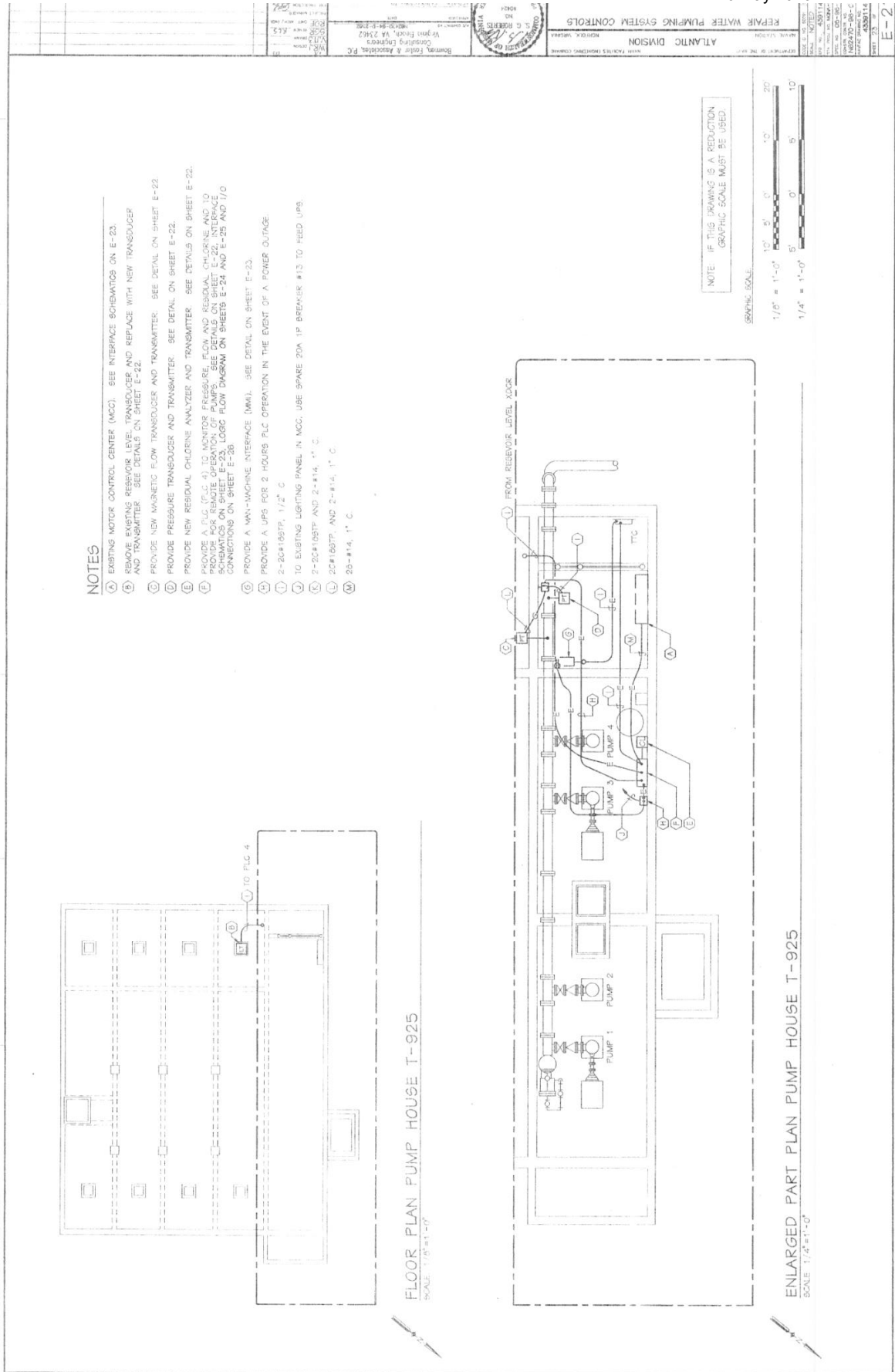
NTS MANA 05-1035

KEYED NOTES:

- ① NOT USED
- ② INSTALL NEW LOW-HEAD PUMP, MOTOR, CHECK VALVE, GATE VALVE
- ③ SAME AS ②
- ④ INSTALL NEW 3-WIRE CKT PLUS GROUND
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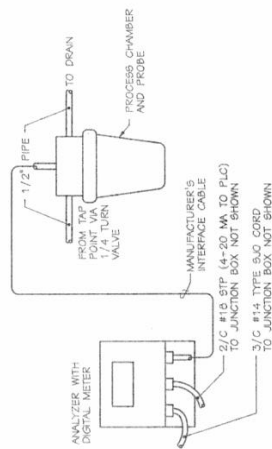
NEW WORK PLAN
REPLACE PUMPS T-925
NTS MANA 05-1035



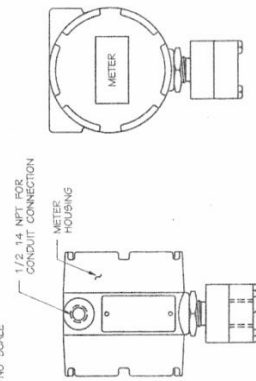
MARK	TEXT
(A)	"REMOTE"
(B)	"PUMP NO. 1"
(C)	"PUMP NO. 2"
(D)	"PUMP NO. 3"
(E)	"PUMP NO. 4"
(F)	"RESERVOIR LEVEL"



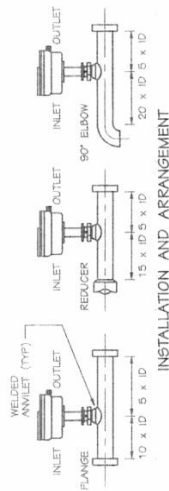
NO SCALE



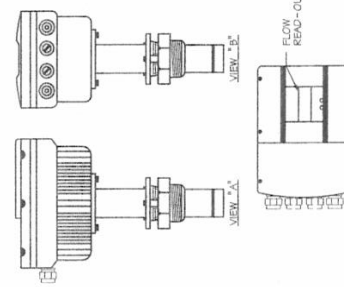
NO SCALE



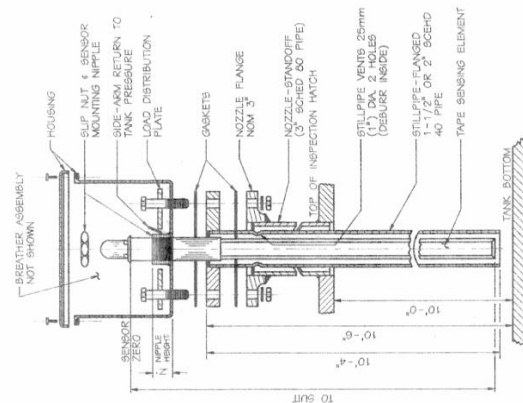
NO SCALE



INSTALLATION AND ARRANGEMENT



NO SCALE



NO SCALE



 OPERATORS MAY REQUEST A REMOTE PUMP START FROM ONE OF THE NMII TECHNICAL G.

F PUMP "ON" - "OFF" STATUS IS TO BE DISPLAYED ON GRAPHIC DISPLAY SCREENS ON THE MAIN TERMINALS

ON THE MINI TERMINALS.

6 THE CONTROL SYSTEM IS TO GENERATE AN ALARM AT THE NMI TERMINALS IF AN AVAILABLE PUMP FAILS TO RESPOND TO A REQUEST TO RUN FROM ONE OF THE NMI TERMINALS.

OF THE NEW TECHNOLOGY.

THE FLOW TRANSDUCER INPUT LOOP (4-20mA) IS TO BE MONITORED BY THE PLC TO DETERMINE IF THE MINIMUM LOOP CURRENT IS PRESENT. THE FLOW INPUT IS INPUT * FLOW^a

J THE FLOW LEVEL IS TO BE DISPLAYED ON GRAPHIC DISPLAY SCREENS AT THE MAIN TERMINAL & INPUT IS INPUT FLOW.

(K) THE SOFTWARE SHALL PROVIDE ADJUSTABLE THRESHOLDS FOR FLOW LEVEL WARNINGS AND ALARMS. THERE SHALL BE PROVISIONS FOR SIX INDEPENDENTLY ADJUSTABLE THRESHOLDS CONFIGURABLE AS WARNINGS OR ALARMS. THE CONTROL SYSTEM IS TO LOG ALL WARNINGS AND ALARMS.

LOW LEVEL ALARMS ARE TO BE ANNUNCIATED AT THE MMI TERMINALS.



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- (A) THE PRESSURE TRANSDUCER INPUT LOG (4-20mA) IS TO BE MONITORED BY THE PLC TO DETERMINE IF THE MAXIMUM LOG CURRENT IS PRESENT.
- (B) THE PRESSURE IS TO BE DISPLAYED ON GRAPHIC DISPLAY SCREENS AT THE MM TERMINALS.
- (C) THE SOFTWARE SHALL PROVIDE ADJUSTABLE THRESHOLDS FOR PRESSURE LEVEL, MAXIMUM LOG CURRENT AND LOG CURRENT RISE RATE. WHEN ANY OF THESE ADJUSTABLE THRESHOLDS ARE VIOLATED, CONFIGURABLE AS WARNINGS OR ALARMS, THE CONTROL SYSTEM IS TO LOG ALL WARNINGS AND ALARMS.
- (D) PRESSURE LEVEL ALARMS ARE TO BE ANNUNCIATED AT THE MM TERMINALS.

PRESSURE INPUT IS INPUT "4PRESS".

THE RESERVOIR LEVEL TRANSDUCER INPUT LOOP (4-20mA) IS TO BE MONITORED BY THE PLC TO DETERMINE IF THE MINIMUM LOOP CURRENT IS PRESENT

THE RESERVOIR LEVEL, FILL RATE AND EMPTY RATE ARE TO BE DISPLAYED ON GRAPHIC SCREENS AT THE MMI TERMINALS.

THE SOFTWARE SHALL PROVIDE ADJUSTABLE THRESHOLDS FOR RESERVOIR LEVEL WARNINGS AND ALARMS. THERE SHALL BE PROVISIONS FOR SIX INDEPENDENTLY ADJUSTABLE THRESHOLDS CONFIGURABLE AS WARNINGS OR ALARMS. THE CONTROL SYSTEM INTO LOG ALL WARNINGS AND ALARMS.

RESEVOIR LEVEL ALARMS ARE TO BE ANNUNCIATED AT THE MAIN TERMINAL &

THE CONTROL PROGRAM SHALL CALCULATE THE RATE OF CHANGE IN THE RESERVOIR AND USE THIS VALUE AND THE RESERVOIR GEOMETRY TO CALCULATE THE TIME TO FILL OR EMPTY THE RESERVOIR

RESEVOIR LEVEL IS MONITORED BY LEVEL SENSOR: INPUT "4LVL".

THE CHLORINE TRANSDUCER INPUT LOOP (4-20MA) IS TO BE MONITORED BY THE PLC TO DETERMINE IF THE MINIMUM LOOP CURRENT IS PRESENT.

THE CHLORINE IS TO BE DISPLAYED ON GRAPHIC DISPLAY SCREENS AT THE MAIN TERMINALS.

THE SOFTWARE SHALL PROVIDE ADJUSTABLE THRESHOLDS FOR CHLORINE LEVEL, WARNING68 AND ALARMS. THERE SHALL BE PROVISIONS FOR SIX INDEPENDENTLY ADJUSTABLE THRESHOLD CONFIGURABLE AS WARNINGS OR ALARMS. THE CONTROL SYSTEM IS TO LOG ALL WARNINGS AND ALARMS.

CHLORINE LEVEL ALARMS ARE TO BE ANNUNCIATED AT THE NINE TERMINAL 9.

