

OPEN~CLOSE-REMOTE

OPERATOR TERMINAL
PUMP CONTROL PANEL
PROGRAMMABLE LOGIC CONTROLLER
ALARM RESET
RAISE OFF LOWER
RUN-OFF-REMOTE
SPEED CONTROL RECTIFIER
TURBINDTY

VARIABLE FREQUENCY DRIVE

OPEN-CLOSE-STOP

OPERATOR TERMINAL

ULTRASONIC

TRANSMIT VALVE

OR CONVERT

* ALSO USED AS A MODIFIER AFTER FIRST LETTER (i.e. PDIT: PRESSURE * ALSO USED AS A MOURIER AFIER FIRST LETTER (I.E. PORT PRESSURE DIFFERENTIAL INDICATING TRANSMITTER)

** ALSO USED AS A MODIFIER AFTER LAST LETTER (I.E. LSHH: LEVEL SWITCH

RELAY, COMPUTE,

TORQUE, WEIGHT, FORCE

STATUS

HIGH HIGH)

TRANSMIT

VALVE

LOOP NO.	DESCRIPTION
10 30 31 32 33 34	HIGH HEADWORKS CHANNEL LEVEL WET WELL NO. 1 LEVEL CONTROL PUMP NO. 1 CONTROL PUMP NO. 2 CONTROL WET WELL NO. 2 LEVEL CONTROL PUMP NO. 3 CONTROL
35 36	PUMP NO. 4 CONTROL STATION MONITORING
40 55	EFFLUENT FLOW WET WELL PUMP DISCHARGE
	LOW SEAL WATER DRESCURE

NOTES:

- 1. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. PROVIDE SIGNAL REPEATERS/CONVERTERS/BOOSTERS AS REQUIRED BASED UPON EQUIPMENT SELECTED BY INSTRUMENTATION SUPPLIER, DISTANCE AND LOCATION.
- 3. PROVIDE DRIP SHIELDS TO PROTECT ALL PANELS LOCATED UNDERNEATH PIPES OR OTHER LIQUID-CONTAINING STRUCTURES.
- 4. REFERENCE PROCESS AND ELECTRICAL DRAWINGS FOR LOCATION OF PANELS AND FIELD INSTRUMENTATION.
- 5. REFER TO SPECIFICATION SECTION 13440 AND 13442 FOR ADDITIONAL INFORMATION REGARDING INSTRUMENTATION.
- 6. THE ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL 10% SPARE INSTRUMENTATION WIRES WITH A LIMIT OF TWO SPARES PER CONDUIT UP TO THE LIMIT OF CONDUIT FILL AS SPECIFIED BY NEC.
- 7. INSTRUMENTATION CONTRACTOR TO COORDINATE NEEDED VOLTAGE BASED UPON EQUIPMENT
- 8. ALL FLOOR MOUNTED CONTROL PANELS SHALL BE INSTALLED ON 4" HIGH CONCRETE EQUIPMENT PADS.
- 9. WHERE INPUT AND OUTPUT SIGNALS TO A PLC IS REQUIRED, PROVIDE PROPER TYPE AND QUANTITY OF INPUT/OUTPUT MODULES (I/O).
- 10. INSTRUMENTATION CONTRACTOR SHALL COORDINATE THE TYPE OF ANALOG SIGNAL PROVIDED BY THE EQUIPMENT OR FIELD DEVICES WITH THE PROPER TYPE PLC 1/0.
- 11. ALL ANALOG SIGNALS WILL BE 4-20mA, UNLESS OTHERWISE INDICATED OR REQUIRED.
- 12. FOR CONTROL PANEL REQUIREMENTS, INCLUDING SIZING PROVISIONS AND MINIMUM AND MAXIMUM HEIGHT CONSTRAINTS ON CONTROL DEVICES, REFER TO SPECIFICATIONS 13440 AND
- 13. INSTRUMENTATION SUPPLIER SHALL RECEIVE TERMINAL CONNECTION DIAGRAMS FROM ELECTRICAL SUBCONTRACTOR PERTAINING TO TERMINATIONS IN MCC, LOCAL CONTROL STATIONS AND ALL EQUIPMENT SUPPLIED BY ELECTRICAL SUBCONTRATOR.
- 14. INSTRUMENTATION SUPPLIER SHALL PROVIDE POINT TO POINT WIRING SCHEMATICS TO ELECTRICAL SUBCONTRACTOR TO ALLOW COMPLETION OF ALL CONTROL WIRING BETWEEN DEVICES, CONTROL PANELS AND ALL EQUIPMENT PROVIDED BY INSTRUMENTATION SUPPLIER AND EQUIPMENT PROVIDED BY ELECTRICAL SUBCONTRACTOR.

CHECKED BY SCH
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DATE 12-19-02
APPROVED BY SLH
DATE 1-31-03
BOOK NO.
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