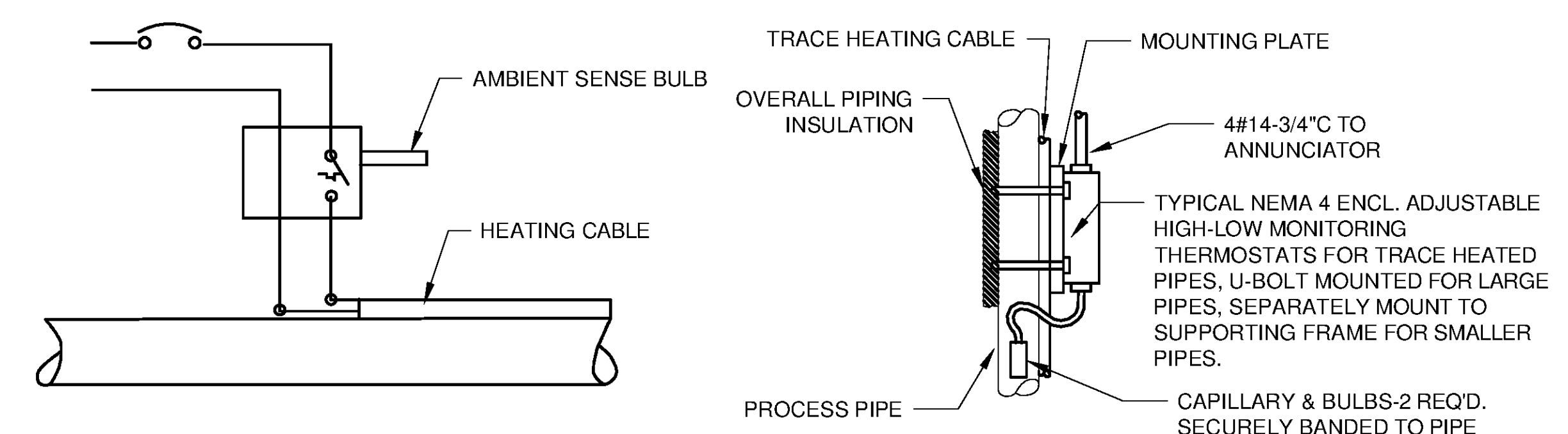


**TYPICAL
INSTALLATION OVERVIEW**
SCALE: NONE

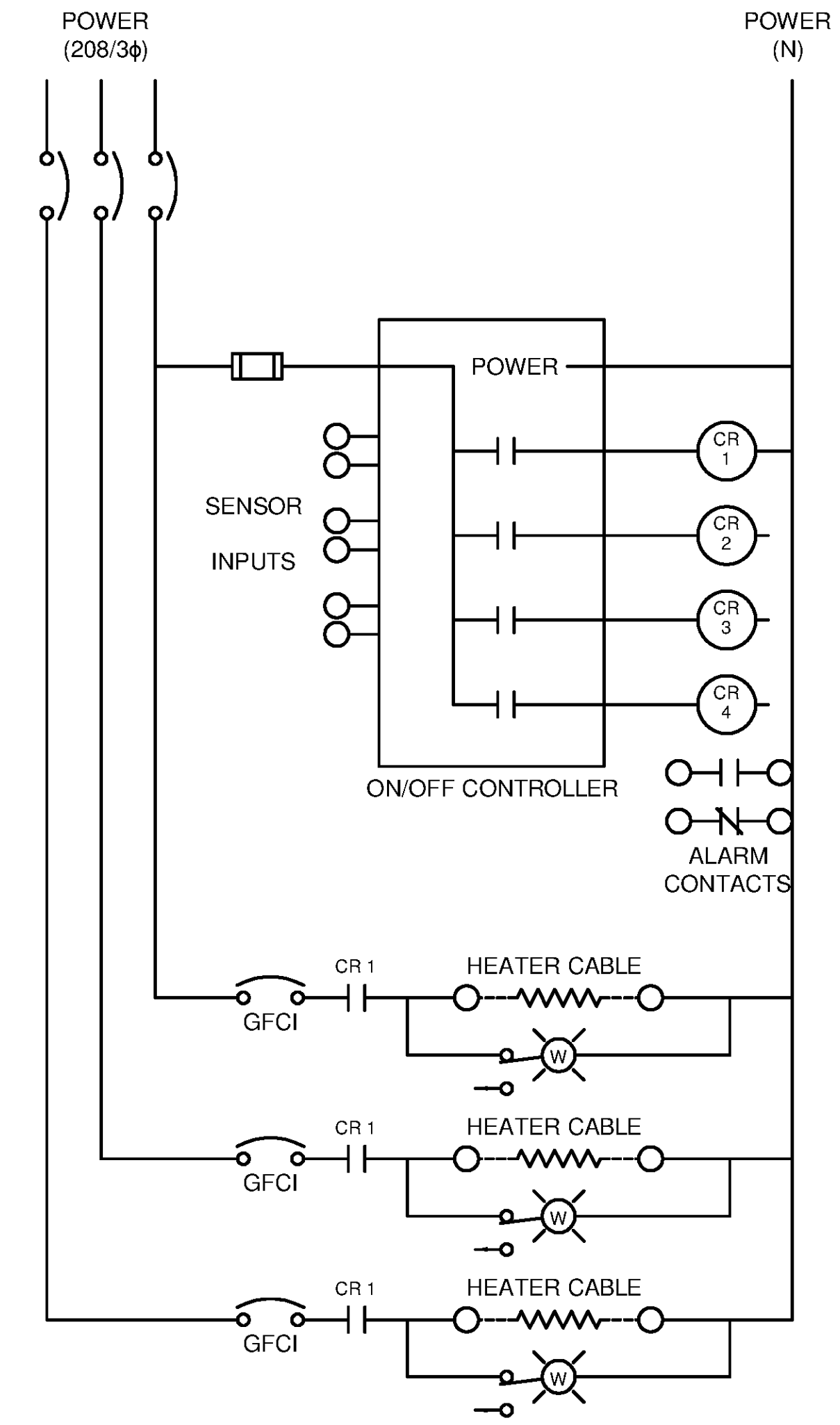


**AMBIENT AIR SENSING
SENSOR
PLACEMENT**
SCALE: NONE

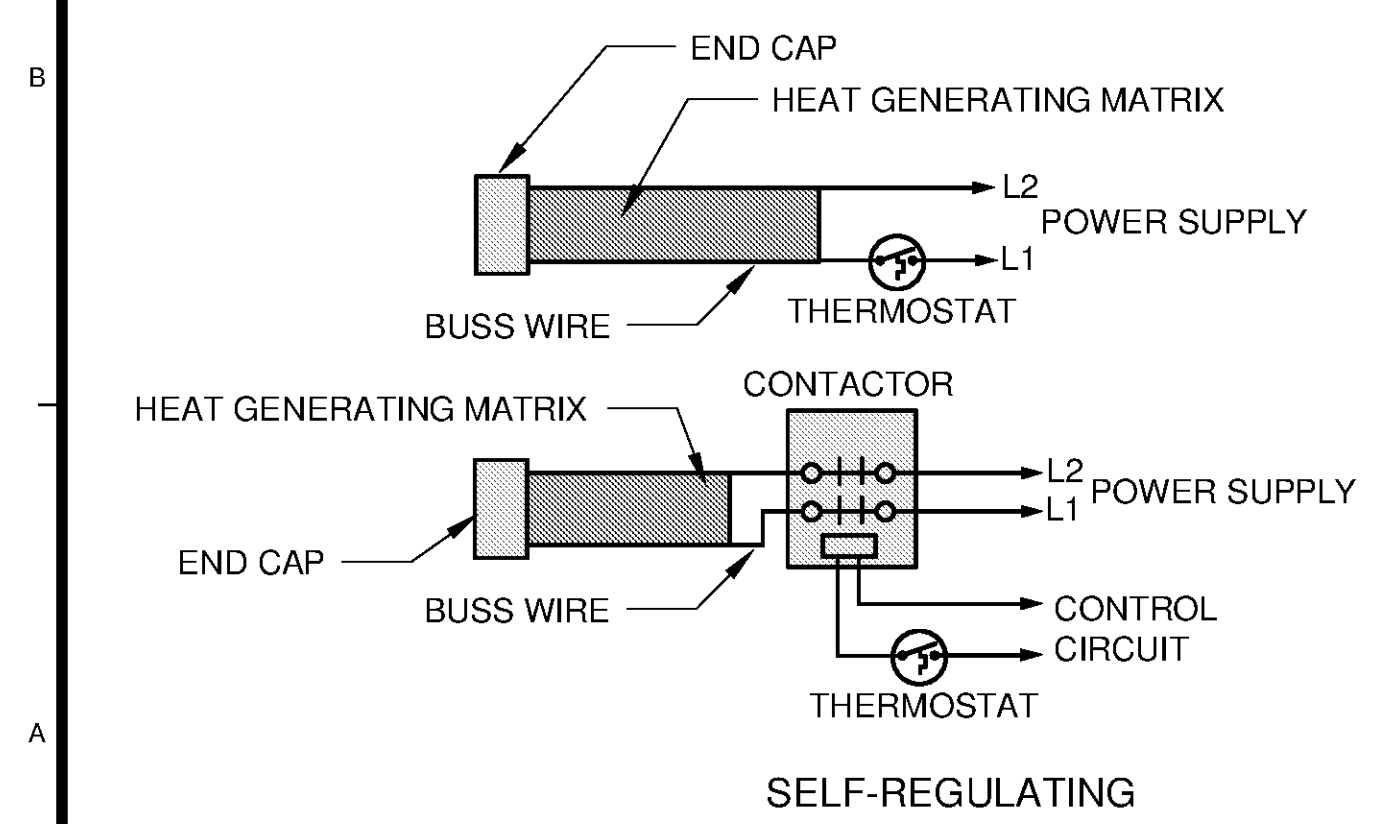
**CHECKLIST FOR SELF-REGULATING AND POWER-LIMITING
HEAT TRACING**

GENERAL INFORMATION	
PROJECT NUMBER:	INSTALLATION CONTRACTOR:
UNIT NUMBER:	THERMION REFERENCE NUMBER:
CUSTOMER REF. NUMBER:	INSPECTOR:
RECORD 1: PRIOR TO INSTALLATION	
CABLE TYPE:	REEL NUMBER:
REEL LENGTH (M):	INSULATION RESISTANCE (M OHMS):
TESTED BY/DATE:	WITNESSED BY/DATE:
RECORD 2: AFTER CABLE INSTALLATION	
LINE NUMBER:	THERMOSTAT NUMBER:
EQUIPMENT NUMBER:	JUNCTION BOX NUMBER:
CIRCUIT/HEATER NUMBER:	UNUSED ENTRIES PLUGGED OFF:
CIRCUIT SWITCH NUMBER:	HEATER LENGTH (M):
METAL SHEATH CONNECTED TO EARTH/GROUND:	INSULATION RESISTANCE (M OHMS):
TESTED BY/DATE:	WITNESSED BY/DATE:
RECORD 3: AFTER THERMAL INSULATION IS INSTALLED	
INSULATION WATERTIGHT:	INSULATION RESISTANCE (M OHMS):
TESTED BY/DATE:	WITNESSED BY/DATE:
RECORD 4: FINAL COMMISSIONING	
PANEL NUMBER:	AMBIENT TEMP. (°C):
BREAKER NUMBER:	PIPE TEMP. (°C):
VOLTS:	RECORDED AMPS (AFTER 5 MIN.):
TESTED BY/DATE:	WITNESSED BY/DATE:

*NOTE: MINIMUM ACCEPTABLE INSULATION RESISTANCE SHOULD BE 20 MEGOHMS FOR RECORDS 1 AND 2 AND 5 MEGOHMS FOR RECORD 3.



**LOGICAL DIAGRAM FOR
HEAT TRACE PANEL**
SCALE: NONE



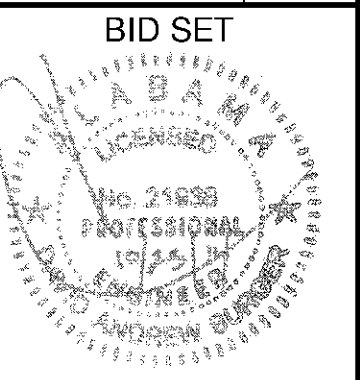
**TYPICAL HEATER CIRCUIT
WIRING DIAGRAM**
SCALE: NONE

	WARNING	
	ELECTRIC HEAT TRACING	
SHOCK AND FIRE HAZARD: SYSTEM MUST BE INSTALLED AND MAINTAINED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. FOLLOW ELECTRICAL LOCKOUT PROCEDURES BEFORE WORKING ON THIS LINE OR REMOVING THERMAL INSULATION.		

HEAT TRACED PIPE LABEL
SCALE: NONE
NOTES:
1. PLACE LABEL EVERY TEN (10) FEET.

10/17/2014 11:06:57 AM - P:\IER11740\200-11740-10003\CAD\SHEETFILES\TREATMENT PLANT\WTP E-9517 HEAT TRACE DETAILS.DWG - CALZARETTA, TIMOTHY

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HUNTSVILLE, ALABAMA 35806
PHONE: (256) 424-4077 FAX: (256) 424-4097



BY	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION

HUNTSVILLE UTILITIES
SOUTHEAST WATER TREATMENT PLANT
HEAT TRACE DETAILS

Project No.: 200-11740-10003
Designed By: CSW
Drawn By: TAC
Checked By: DAB

E-9516

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Bar Measures 1 inch