

SALT LAKE COMMUNITY COLLEGE JORDAN AND REDWOOD CAMPUS BOILER CONTROLS



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CONSULTING ENGINEERS

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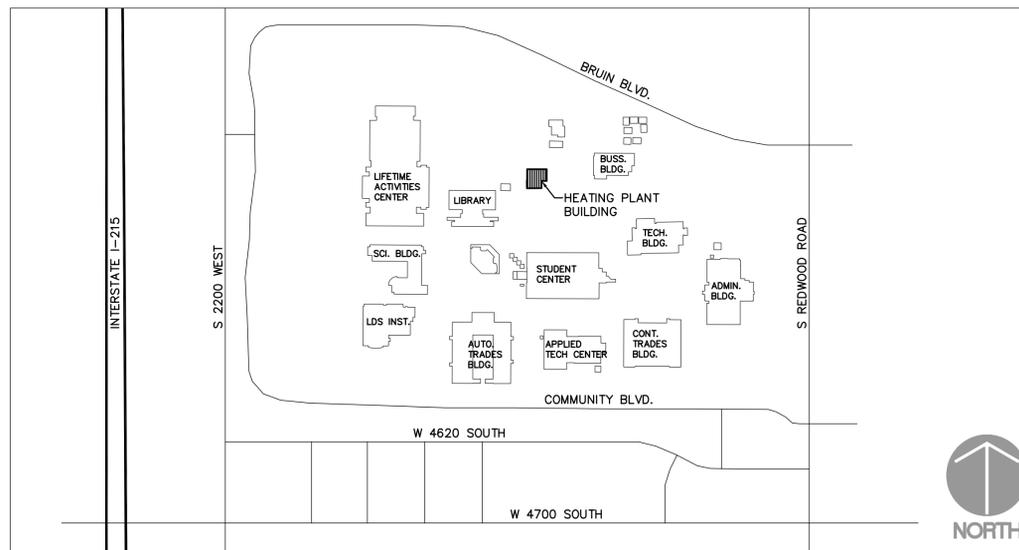


State of Utah—Department of Administrative Services

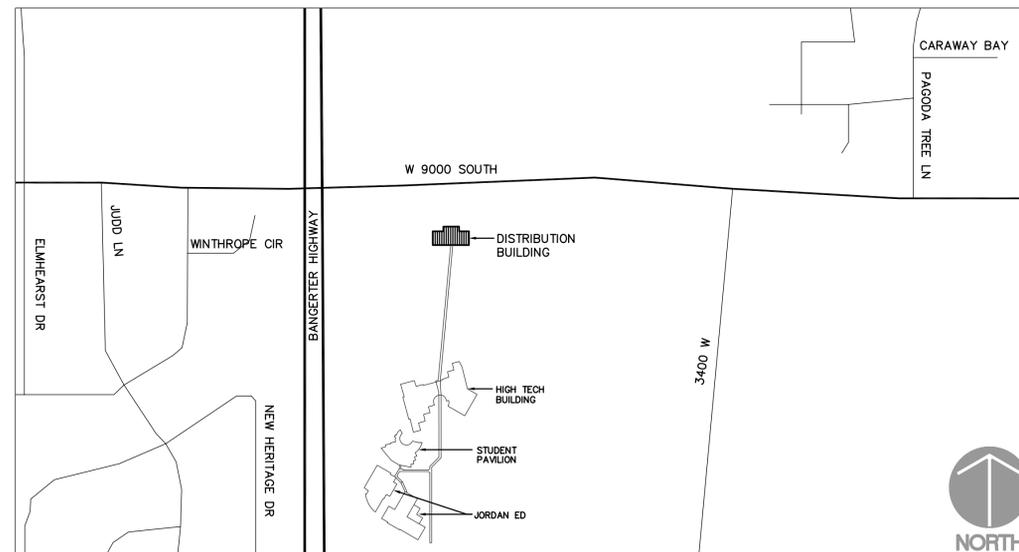
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DFCM Project No. 06164660 CONSTRUCTION DRAWINGS



SLCC Redwood Campus Vicinity Map



SLCC Jordan Campus Vicinity Map

**SLCC Jordan and Redwood
Campus Boiler Controls**
Salt Lake Community College
Salt Lake City, Utah

REVISIONS

VBFA PROJECT #: 06273
CHECKED BY: Nspencer
DRAWN BY: Ejuarez
CURRENT/BID DATE: 03/07/2007

SHEET CONTENTS

COVER SHEET

C-001

N:\06\06200\06273 SLCC Redwood and Jordan Campuses Boiler Control Upgrade\Cadd\Phase 1_Mechanical\6273_C-001.dwg, 3/19/2007 11:43:29 AM, ejuaez, Adobe PDF

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KEYED NOTES

- 1 REPLACE EXISTING BOILER CONTROLS WITH NEW. SEE SHEET M-702.
- 2 NEW DATA TRANSFER INTERFACE (DTI), EXACT LOCATION AS DETERMINED BY OWNER.
- 3 NEW EXHAUST GAS ANALYZER.
- 4 NEW FLUE GAS SAMPLING PROBE.



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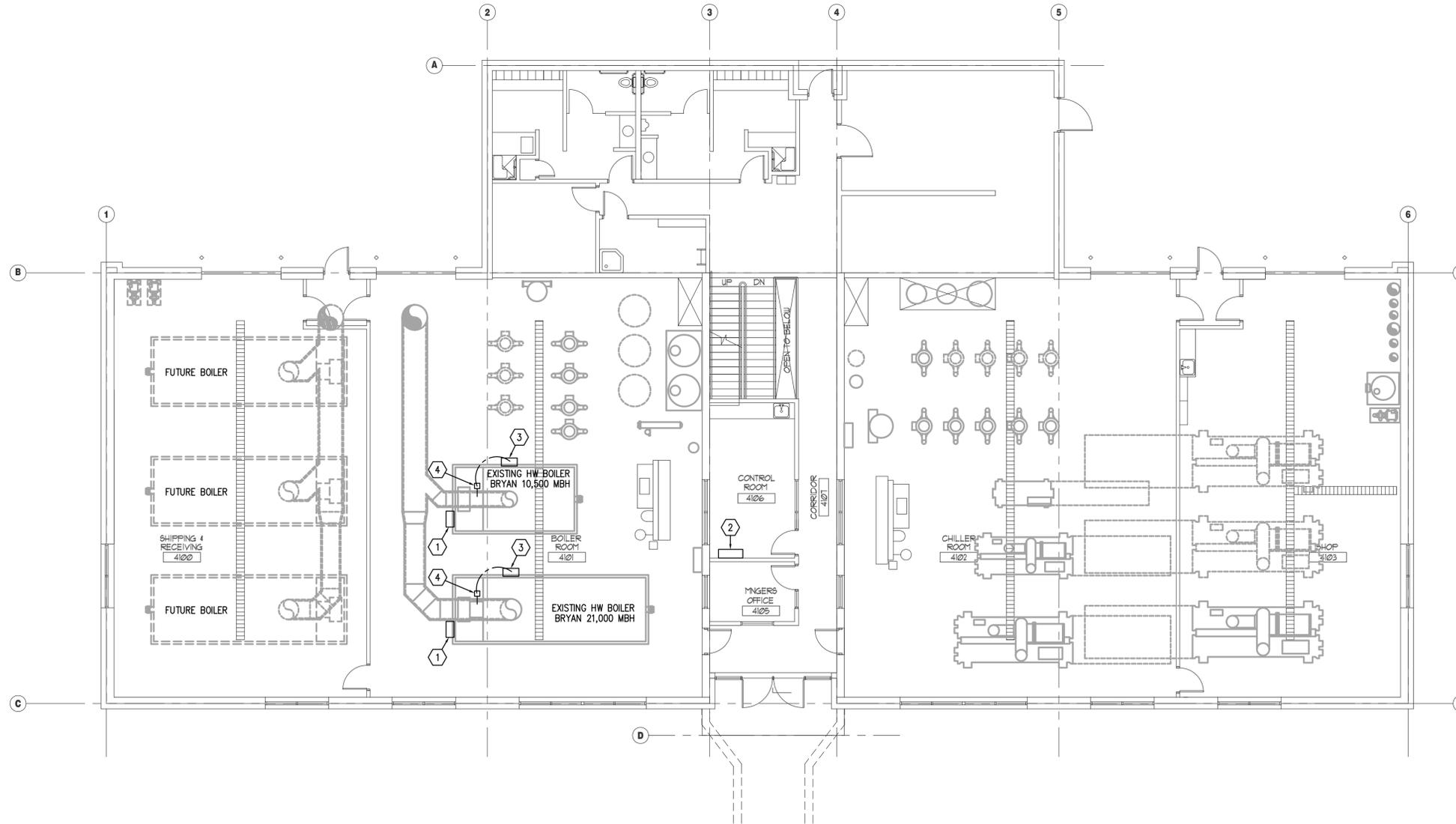
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SHEET CONTENTS JORDAN CAMPUS DISTRIBUTION BLDG. MECHANICAL EQUIPMENT PLAN

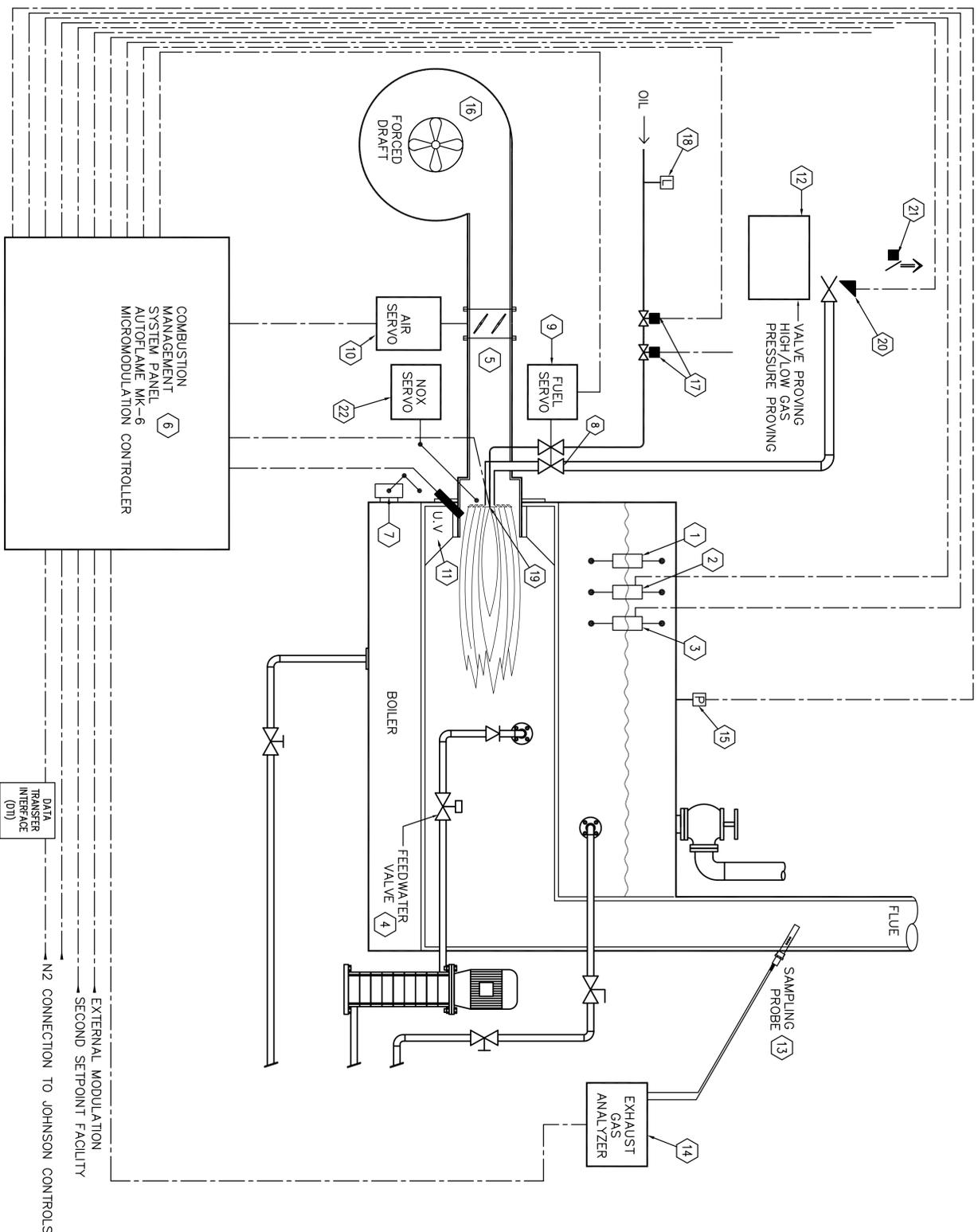
M-102

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A1 DISTRIBUTION BUILDING MECHANICAL EQUIPMENT PLAN SCALE: 1/8" = 1'-0"



- 1 EXISTING WATER LEVEL CONTROLLER TO REMAIN.
- 2 EXISTING LOW WATER CUTOFF TO REMAIN. CONNECT TO NEW CONTROLS.
- 3 EXISTING AUXILIARY LOW WATER CUTOFF (WITH MANUAL RESET) TO REMAIN.
- 4 EXISTING AUTO FEED WATER VALVE TO REMAIN. EXISTING BURNER DAMPER TO REMAIN. DISCONNECT LINKAGE FROM EXISTING MODULATING MOTOR. CONNECT TO NEW SERVO.
- 5 EXISTING CLEARER BROOKS PANEL BOX TO REMAIN. REMOVE CLEARER BROOKS HAWK CONTROLS. REPLACE WITH NEW CONTROLS SPECIFIED.
- 6 REMOVE EXISTING MODULATING MOTOR AND LINKAGE TO BURNER DAMPER, GAS VALVE AND OIL VALVE.
- 7 REPLACE EXISTING OPERATING GAS VALVE WITH NEW GAS VALVE WITH SERVO.
- 8 REPLACE EXISTING OPERATING OIL VALVE WITH NEW OIL VALVE WITH SERVO.
- 9 NEW SERVO FOR BURNER DAMPER.
- 10 NEW UV SCANNER.
- 11 NEW GAS PRESSURE SENSOR.
- 12 NEW FUE GAS SAMPLING PROBE. BASE BID FOR THE (2) CLEARER BROOKS BOLLERS. ALTERNATE NO. 1 FOR THE (2) SUPERIOR BOLLERS.
- 13 NEW EXHAUST GAS ANALYZER BASE BID FOR THE (2) CLEARER BROOKS BOLLERS. ALTERNATE NO. 1 FOR THE (2) SUPERIOR BOLLERS.
- 14 NEW PRESSURE TRANSDUCER.
- 15 EXISTING BURNER FAN TO REMAIN.
- 16 CONNECT EXISTING OIL SAFETY SHUTOFF VALVES TO NEW CONTROLLER.
- 17 NEW LOW PRESSURE SAFETY SWITCH WITH RESET BUTTON.
- 18 EXISTING IGNITOR AND PILOT TO REMAIN. CONNECT TO NEW CONTROLLER.
- 19 EXISTING GAS SAFETY SHUTOFF VALVES. CONNECT TO NEW CONTROLLER.
- 20 EXISTING VENT VALVE. CONNECT TO NEW CONTROLLER.
- 21 LOW NOX SERVO ON 500 HP CLEARER BROOKS OIL.
- 22



EXTERNAL MODULATION
SECOND SETPOINT FACILITY
N2 CONNECTION TO JOHNSON CONTROLS

DATA TRANSFER INTERFACE (DTI)

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A1

M-701

STEAM BOILER CONTROL SCHEMATIC (2) SIMILAR



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Salt Lake City, Utah

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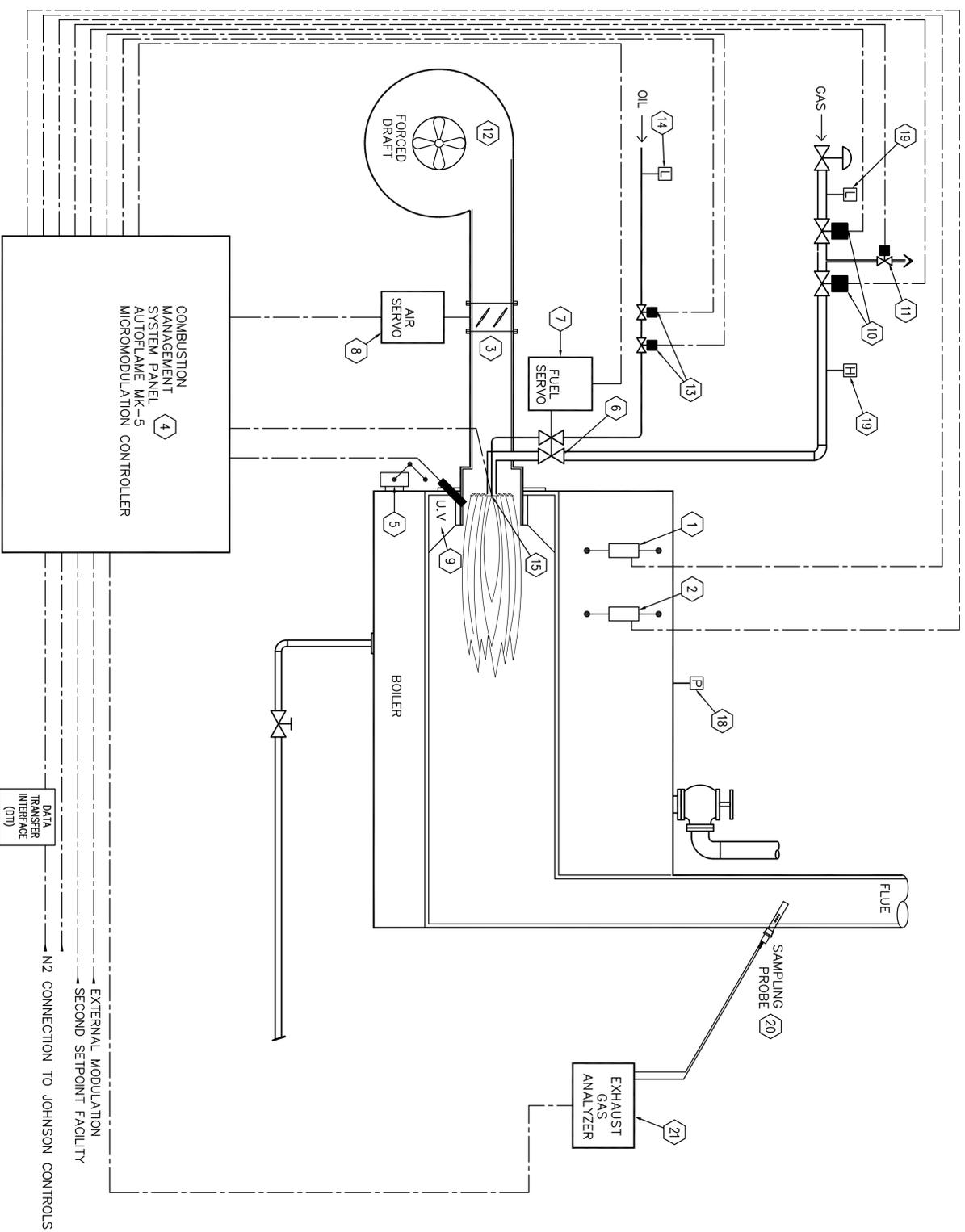
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DRAWN BY: Ejuarez
CURRENT/BD DATE: 03/07/2007

SHEET CONTENTS

REDWOOD CAMPUS
STEAM BOILER
CONTROL SCHEMATIC

M-701

- 1 EXISTING LOW WATER CUTOFF TO REMAIN. CONNECT TO NEW CONTROLLER.
- 2 EXISTING AUXILIARY LOW WATER CUTOFF TO REMAIN. CONNECT TO NEW CONTROLLER.
- 3 EXISTING BURNER DAMPER TO REMAIN. DISCONNECT LINKAGE FROM EXISTING MODULATING MOTOR. CONNECT TO NEW SERVO.
- 4 EXISTING WEBSTER PANEL BOX TO REMAIN. REMOVE HONEYWELL CONTROLS. REPLACE WITH NEW UV SCANNER.
- 5 REMOVE EXISTING MODULATING MOTOR AND LINKAGE TO BURNER DAMPER. GAS VALVE AND OIL VALVE.
- 6 REPLACE EXISTING OPERATING GAS VALVE WITH NEW GAS VALVE WITH SERVO.
- 7 REPLACE EXISTING OPERATING OIL VALVE WITH NEW OIL VALVE WITH SERVO.
- 8 NEW SERVO FOR BURNER DAMPER.
- 9 NEW UV SCANNER.
- 10 EXISTING GAS SAFETY SHUTOFF VALVES TO REMAIN. CONNECT TO NEW CONTROLLER.
- 11 EXISTING VENT VALVE TO REMAIN. CONNECT TO NEW CONTROLLER.
- 12 EXISTING BURNER PAN TO REMAIN.
- 13 CONNECT EXISTING OIL SAFETY SHUTOFF VALVES TO NEW CONTROLLER.
- 14 NEW LOW PRESSURE SAFETY SWITCH WITH RESET BUTTON.
- 15 EXISTING IGNITOR AND PILOT TO REMAIN. CONNECT TO NEW CONTROLLER.
- 16 EXISTING GAS SAFETY SHUTOFF VALVES. CONNECT TO NEW CONTROLLER.
- 17 EXISTING VENT VALVE. CONNECT TO NEW CONTROLLER.
- 18 NEW TEMPERATURE TRANSMITTER.
- 19 NEW HIGH AND LOW PRESSURE SWITCHES WITH RESET BUTTON.
- 20 NEW FLUE GAS SAMPLING PROBE.
- 21 NEW EXHAUST GAS ANALYZER.



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A1

M-702

HOT WATER BOILER CONTROL SCHEMATIC (2) SIMILAR

SCALE: NONE



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Salt Lake Community College
Salt Lake City, Utah

REVISIONS

VEFA PROJECT #:	06273
CHECKED BY:	Nepander
DRAWN BY:	Ejuauez
CURRENT/ISSUED DATE:	03/07/2007

SHEET CONTENTS

JORDAN CAMPUS
HOT WATER BOILER
CONTROL SCHEMATIC

M-702