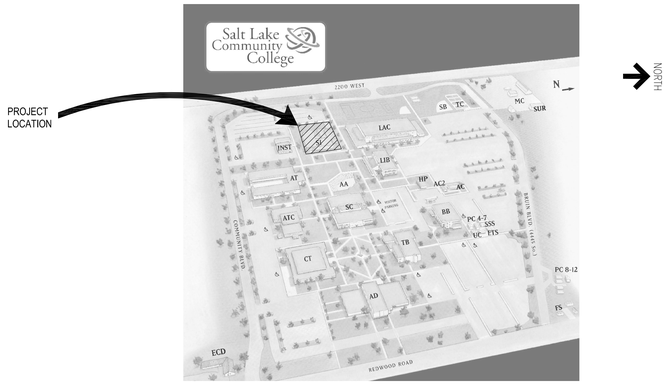
STATE OF UTAH: SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB FUME HOOD CONTROLS UPGRADES

GENERAL, MECHANICAL & ELECTRICAL DRAWINGS

OCTOBER 12, 2007



VICINITY MAP

SCALE: N.T.S.

SHEET NO.	DESCRIPTION
G1	TITLE SHEET & SHEET INDEX
G2	MECHANICAL SCHEDULES
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G4	CONTROL SCHEMATIC DETAILS
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NO.	REVISIONS	DWN	APVD	APVD	DATE

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SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

TITLE SHEET,
SITE VICINITY MAP &
SHEET INDEX

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. G1 REV. 0

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SS: PROJECT NO:
SSSSSSSSSSSSSSSSFILENAME
CADD E1-83

KEY NOTES:

1. THE EXISTING EQUIPMENT SCHEDULES WERE REPRODUCED HERE FROM THE ORIGINAL 1993 CONSTRUCTION PLANS. THE REPLACEMENT CONTROLS AND CONTROL ACTUATORS SHALL OPERATE WITH THE EXISTING VAV DAMPERS AND HOT WATER VALVES TO ACHIEVE THESE SCHEDULED FLOW RATES FOR AIR AND HOT WATER.

EXISTING GENERAL EXHAUST VALVE SCHEDULE (1)

SYMBOL	CROWN CONTROLS MODEL SIZE (1)(2)	CFM MIN. MAX.	REMARKS
GX-1	16	750 1665	(1)
GX-2	12	500 1170	(1)
GX-3	16	750 1855	(1)
GX-4	14	750 1595	(1)
GX-5	12	500 1050	(1)
GX-6	16	800 2020	(1)
GX-7	12	895 1195	(1)
GX-8	16	800 1755	(1)
GX-9	12	600 1070	(1)
GX-10	14	750 1500	(1)
GX-11	12	550 1100	(1)
GX-12	12	500 1110	(1)
GX-13	14	700 1275	(1)
GX-14	14	800 1600	(1)
GX-15	12	470 1100	(1)
GX-16	16	470 1710	(1)

(1) ALL CONDITIONS AT 4,300 FT. ELEVATION.

EXISTING LAB VARIABLE VOLUME SUPPLY BOX (WITH REHEAT) SCHEDULE (1)

SYMBOL	CROWN CONTROLS MODEL SIZE (1)(2)	CFM MIN. MAX.	HEATING CFM	MBH	LVG. AIR TEMP °F	GPM	CONTROL SEQUENCE	REMARKS
LS-1	16	750 1665	750	25.5	89	2.6	50 CFM NEGATIVE OFFSET	(1)
LS-2	12	500 1170	500	21.3	87	2.2	50 CFM NEGATIVE OFFSET	(1)
LS-3	16	750 1855	750	24.8	88	2.5	50 CFM NEGATIVE OFFSET	(1)
LS-4	14	750 1595	750	24.8	88	2.5	50 CFM NEGATIVE OFFSET	(1)
LS-5	12	500 1050	500	21.2	87	2.1	50 CFM NEGATIVE OFFSET	(1)
LS-6	16	800 2020	800	26.5	88	2.6	50 CFM NEGATIVE OFFSET	(1)
LS-7	12	895 1195	895	25.2	83	2.5	335 CFM POSITIVE OFFSET	(1)
LS-8	16	800 1755	800	26.5	88	2.6	50 CFM NEGATIVE OFFSET	(1)
LS-9	12	600 1070	600	19.3	87	1.9	50 CFM NEGATIVE OFFSET	(1)
LS-10	14	750 1500	750	23.5	86	2.3	350 CFM POSITIVE OFFSET	(1)
LS-11	12	550 1100	550	16.7	85	1.7	50 CFM NEGATIVE OFFSET	(1)
LS-12	12	500 1110	500	16.1	87	1.6	65 CFM NEGATIVE OFFSET	(1)
LS-13	14	700 1275	700	20.6	84	2.1	60 CFM NEGATIVE OFFSET	(1)
LS-14	14	800 1600	800	19.1	78	1.9	50 CFM NEGATIVE OFFSET	(1)
LS-15	12	470 1100	470	17.7	93	1.8	65 CFM NEGATIVE OFFSET	(1)
LS-16	16	470 1710	470	32.8	79	3.3	390 CFM POSITIVE OFFSET	(1)

(1) ENTERING AIR TEMPERATURE 55° F. ENTERING WATER TEMPERATURE 180° F. AIRFLOWS AT 4800 FT. ELEVATION.

EXISTING HOOD EXHAUST VALVE SCHEDULE (1)

SYMBOL	CROWN CONTROLS MODEL SIZE (1)	CFM LOW HIGH	REMARKS
HX-1	HZ-10	0 660	(1)

(1) ALL CONDITIONS AT 4,800 FT. ELEVATION.

EXISTING EXHAUST FAN SCHEDULE (1)

SYMBOL	MANUFACTURER	MODEL	CFM	STATIC PRESSURE	HP	RPM	VOLTS/PHASE/CYCLE	REMARKS
EF-1	LOREN COOK	330 CPS	14,000	3.0	89	1054	480/3/60	(1)
EF-2	LOREN COOK	330 CPS	14,000	3.0	87	1054	480/3/60	(1)
EF-3	LOREN COOK	330 CPS	14,000	3.0	88	1054	480/3/60	(1)

(1) REBALANCE EXISTING FANS: EF-1, 2, 3.

EXISTING AIR HANDLER UNIT SCHEDULE (1)

SYMBOL	MANUFACTURER & MODEL NO.	AREA SERVED	DESCRIPTION	MODULATION TYPE	MAX	MIN	MIN VENT	CLG	HTG	PRE HEAT	HEAT RECOVERY	BAG FILTER SECTION	COMB FILTER/ MIXING	SUPPLY FAN TYPE/ ARRANGEMENT & RPM	TOTAL S.P. IN. W.G.	ELECTRICAL BHP	ELECTRICAL HP	ELECTRICAL VOLT	ELECTRICAL PHASE	MAXIMUM OVERALL DIMENSIONS LxWxH	COMMENTS
AH-4	CARRIER 39 NX 92	LABORATORIES	CENTRAL STATION AIR HANDLING UNIT	VFD	43000	17200	17200	X		X	X	X	X	AFDTH ARR. 2 1160	6.64	56	75	480	3	232"x140"x98"	FARR 30/30 FILTERS (30%) FARR RIGA-FLO 100 (85%)

(1) REBALANCE EXISTING AH-4

Lab Classroom Air Flow Summary Controls and Balance Schedule

Room	Supply Box Model	Count	CFM	Corridor CFM	Total Lab CFM	Gen Exh Box Model	Count	CFM	Total CFM	Hood Exh Box Model	Count	CFM	Total CFM	Total Offset Lab CFM	NOTES
260	**LS-14**	**2**	1600		3200	**GX-14**	**2**	-1650	-3300	**HX-1**	**5**	-660	-3300	-100	1,2
270	**LS-16**	**1**	1270	440	1270	**GX-16**	**1**	-1320	-1320	**HX-1**	**2**	-660	-1320	-50	1,2
280	**LS-14**	**2**	1600		3200	**GX-14**	**2**	-1650	-3300	**HX-1**	**5**	-660	-3300	-100	1,2
290	**LS-12**	**1**	1110		1110	**GX-12**	**1**	-1175	-1175	No Hoods	0		0	-65	3
298	**LS-10&11**	**2**	1100	400	2200	**GX-10&11**	**2**	-1150	-2300	No Hoods	0		0	-100	3
265	**LS-13**	**2**	1275		2550	**GX-13**	**2**	-1335	-2670	No Hoods	0		0	-120	3
275	**LS-15**	**1**	1100		1100	**GX-15**	**1**	-1165	-1165	No Hoods	0		0	-65	3
285	**LS-13**	**2**	1275		2550	**GX-13**	**2**	-1335	-2670	No Hoods	0		0	-120	3
291	**LS-09**	**2**	1070		2140	**GX-09**	**2**	-1120	-2240	No Hoods	0		0	-100	3
360	**LS-08**	**2**	1755		3510	**GX-08**	**2**	-1805	-3610	**HX-1**	**1**	-660	-660	-100	1,2
370	**LS-07**	**1**	810	385	810	**GX-07**	**1**	-860	-860	**HX-1**	**1**	-660	-660	-50	1,2
380	**LS-04**	**2**	1595		3190	**GX-04**	**2**	-1645	-3290	**HX-1**	**1**	-660	-660	-100	1,2
390	**LS-02**	**1**	780		780	**GX-02**	**1**	-1220	-1220	**HX-1**	**1**	-660	-660	-440	1,2
398	**LS-01**	**2**	1665		3330	**GX-01**	**2**	-1715	-3430	**HX-1**	**1**	-660	-660	-100	1,2
365	**LS-06**	**2**	2020		4040	**GX-06**	**2**	-2070	-4140	No Hoods	**0**	0	0	-100	3
379	**LS-05**	**1**	1050		1050	**GX-05**	**1**	-1100	-1100	**HX-1**	**1**	-660	-660	-50	1,2
385	**LS-03**	**2**	1855		3710	**GX-03**	**2**	-1905	-3810	**HX-1**	**1**	-660	-660	-100	1,2
16 Rms	**Total Boxes**	**28**			**39740**		**28**		**-41600**		**19**	**-6600**			**4**

Notes:

1. EXISTING HX-1 HOOD EXHAUST VALVES WERE DESIGNED AT MIN 0 CFM, MAX 660 CFM. REFER TO EXISTING EQUIPMENT SCHEDULE.
2. EXISTING GX EXHAUST VALVES AND HX HOOD EXHAUST VALVES WERE DESIGNED TO VARY AT INVERSE RATES TO EACH OTHER TO MAINTAIN CONSTANT OVERALL NEGATIVE OFFSET AIRFLOW IN THE LAB ROOMS. REBALANCE AIR & WATER FLOWS TO THOSE LISTED ON EXISTING SCHEDULES. TYPI
3. (7) EXISTING LAB CLASSROOMS WITHOUT FUME HOODS DO NOT REQUIRE REPLACEMENT CONTROLS OR ACTUATORS. THESE ROOMS SHALL BE REBALANCED FOR AIR & HOT WATER FLOWS TO THOSE LISTED ON THE EXISTING EQUIPMENT SCHEDULES.
4. EXISTING LAB EXHAUST FANS AND LAB SUPPLY AIR HANDLER SHALL BE REBALANCED PER THE EXISTING EQUIPMENT SCHEDULES.

NO.	REVISIONS	DWN	APVD	APVD	DATE

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SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

MECHANICAL SCHEDULES

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED
NO. G2
REV. 0

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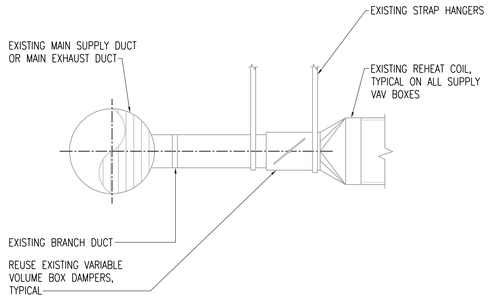
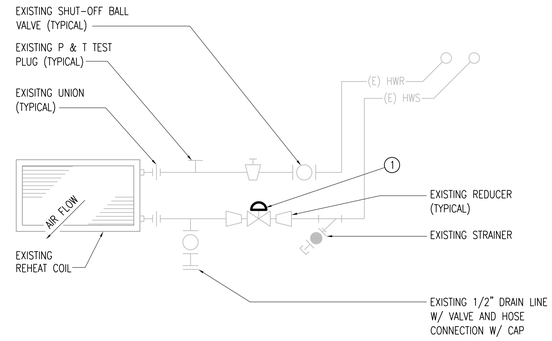


EXISTING VARIABLE VOLUME BOX DETAIL

SCALE: N.T.S.

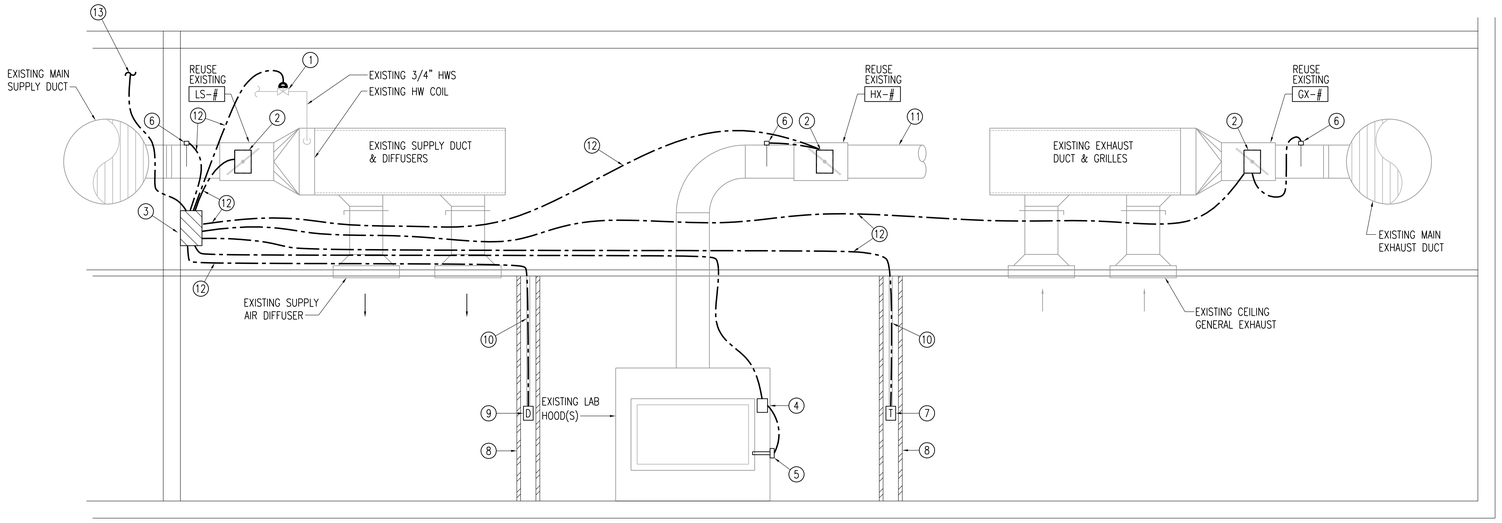


EXISTING REHEAT COIL PIPING DETAIL

SCALE: N.T.S.

KEY NOTES:

1. DEMO EXISTING 2 WAY HW CONTROL VALVE ACTUATORS: JOHNSON CONTROLS 1/2" VTMTN019-3.12, WITH CV=1.9, DATED 94-2-6, WITH PNEUMATIC ACTUATOR V-3000-1. REUSE EXISTING VALVE BODIES. REPLACE PNEUMATIC ACTUATORS WITH NEW JOHNSON CONTROLS ELECTRIC ACTUATORS: VA-7152-1001.
2. DEMO EXISTING CROWN CONTROLS ACTUATOR. REPLACE WITH NEW VAV ACTUATORS.
3. REPLACE EXISTING ROOM AIR OFFSET CONTROLLER. NEW CONTROLLER SHALL BE ABOVE THE CEILING NEAR THE SUPPLY VAV DAMPER.
4. DEMO EXISTING KEYPAD. REPLACE WITH TSI VELOCITY CONTROLLER.
5. PROVIDE VELOCITY SENSOR.
6. PROVIDE DUCT FLOW STATION.
7. PROVIDE ROOM TEMPERATURE DETECTOR, TYPICAL OF ONE IN EACH LAB ROOM.
8. REUSE EXISTING VERTICAL UNISTRUT PIPE CHASES WHICH HOUSE EXISTING LAB GAS PIPES AND CONTROL WIRE CONDUITS.
9. PROVIDE DIM (DIGITAL INTERFACE MODULE). TYPICAL OF ONE IN EACH LAB ROOM.
10. REUSE EXISTING CONTROL WIRE CONDUIT FOR NEW CONTROL WIRE.
11. EXISTING BRANCH EXHAUST DUCT CONNECTS TO EXISTING EXHAUST MAIN DUCT.
12. PROVIDE ALL NEW CONTROL WIRING BETWEEN ALL DEVICES IN LAB CONTROLS SYSTEM.
13. PROVIDE ALL NEW CONTROL WIRING TO CONNECT TO EXISTING JOHNSON CONTROLS N2 NETWORK.



TYPICAL LAB ROOM AIR CONTROL DETAIL

SCALE: N.T.S.

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SALT LAKE CITY, UTAH

MECHANICAL EQUIPMENT DETAILS

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DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. G3 REV. 0

SCI PROJECT NO:

CADD E1-R3

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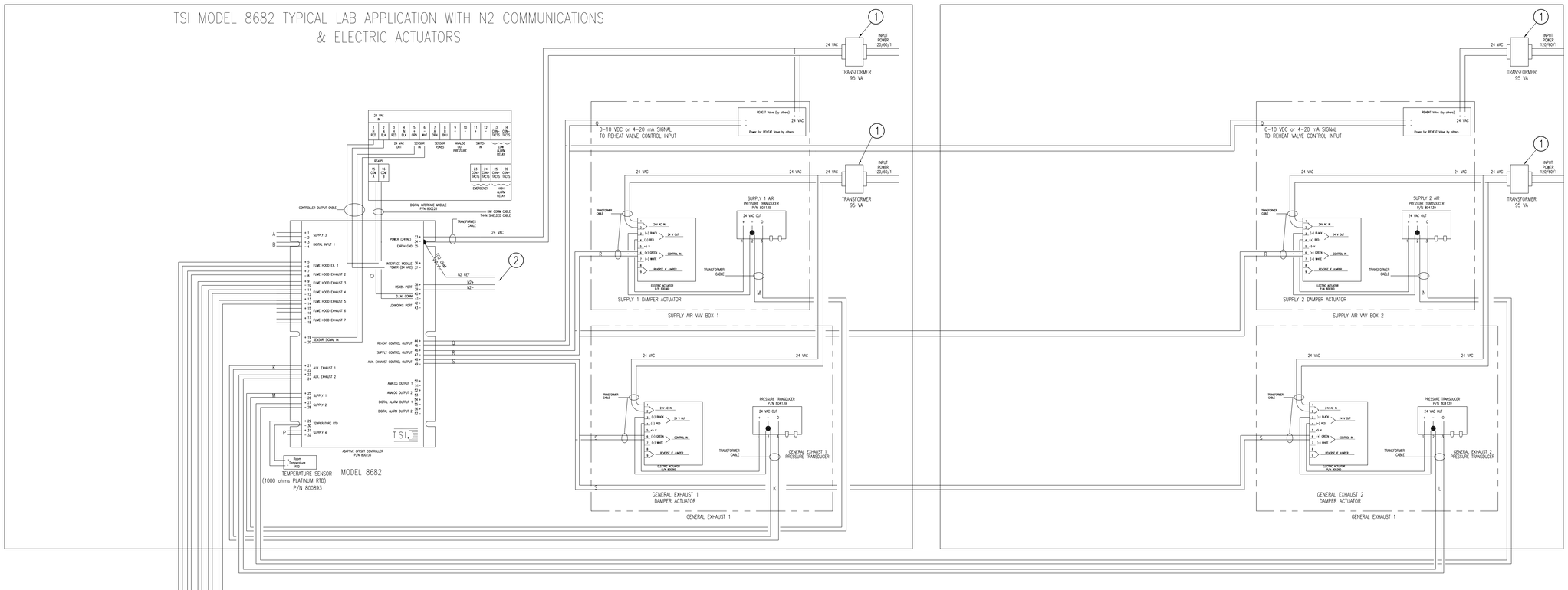
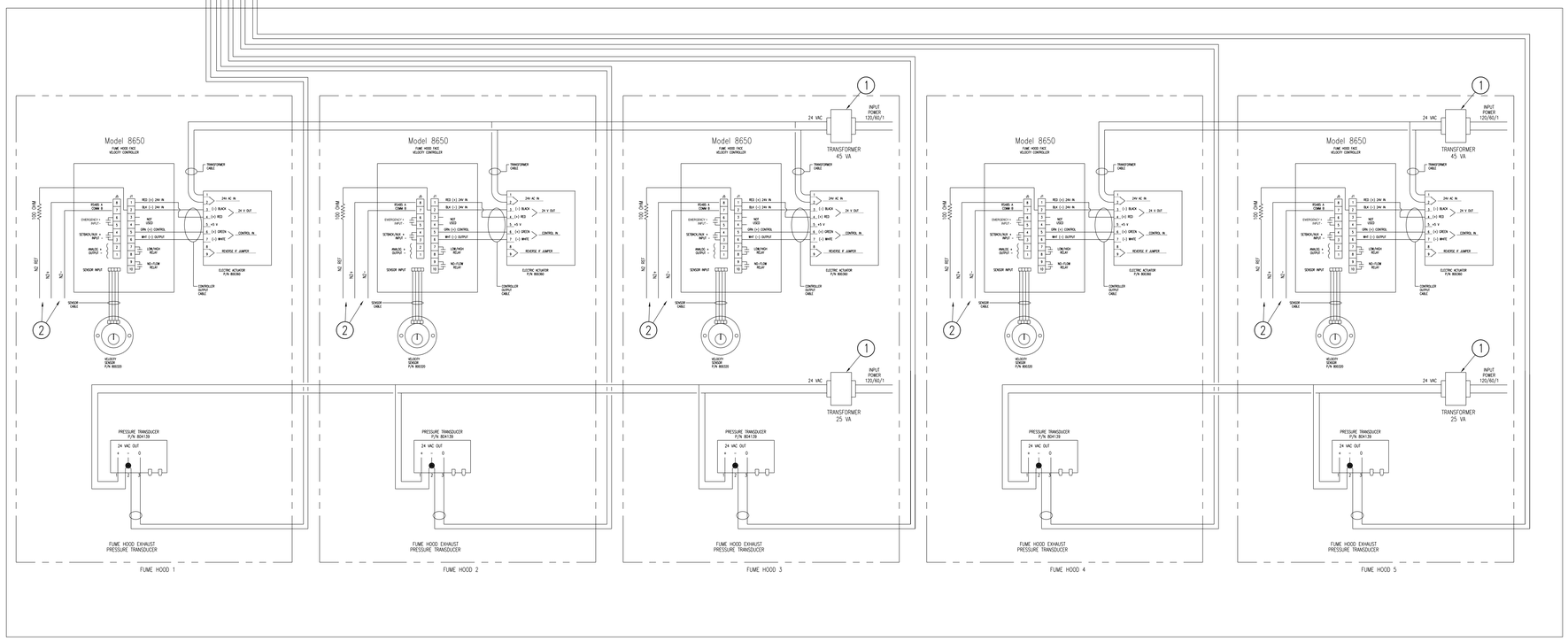
KEY NOTES:

1. 120 VOLT POWER IS AVAILABLE AT EACH SUPPLY BOX AND EXHAUST HOOD.
2. CONNECT TO THE EXISTING JOHNSON CONTROLS N2 NETWORK.

GENERAL NOTES:

1. TSI DEVICES REQUIRE SEPARATE TRANSFORMERS AS SHOWN.
2. SEE INSTALLATION INSTRUCTIONS, P/N 1980484 FOR MORE DETAILED INFORMATION ON TRANSFORMER WIRING AND INSTALLATION.
3. 20 GAGE PLENUM RATED CABELS FOR ALL CONTROL WIRING UNLESS OTHERWISE NOTED
4. THE MODEL 8682 WILL OPERATE AS AN OFFSET CONTROLLER.
5. THE TSI 8682 ROOM CONTROLLER WILL SUPPORT UP TO 7 EXHAUST HOOD VALVES. REFER TO MECHANICAL FLOOR PLANS AND EQUIPMENT SCHEDULES FOR THE EXACT NUMBER OF SUPPLY VALVES, GX VALVES, AND HX VALVES IN EACH LAB ROOM.





TSI MODEL 8682 TYPICAL LAB APPLICATION WITH N2 COMMUNICATIONS & ELECTRIC ACTUATORS FOR LAB ROOMS 260 & 280

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SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

CONTROL SCHEMATIC DETAILS

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. G4 REV. 0

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KEY NOTES:

1. 120 VOLT POWER IS AVAILABLE AT EACH SUPPLY BOX AND EXHAUST HOOD.
2. CONNECT TO THE EXISTING JOHNSON CONTROLS N2 NETWORK.

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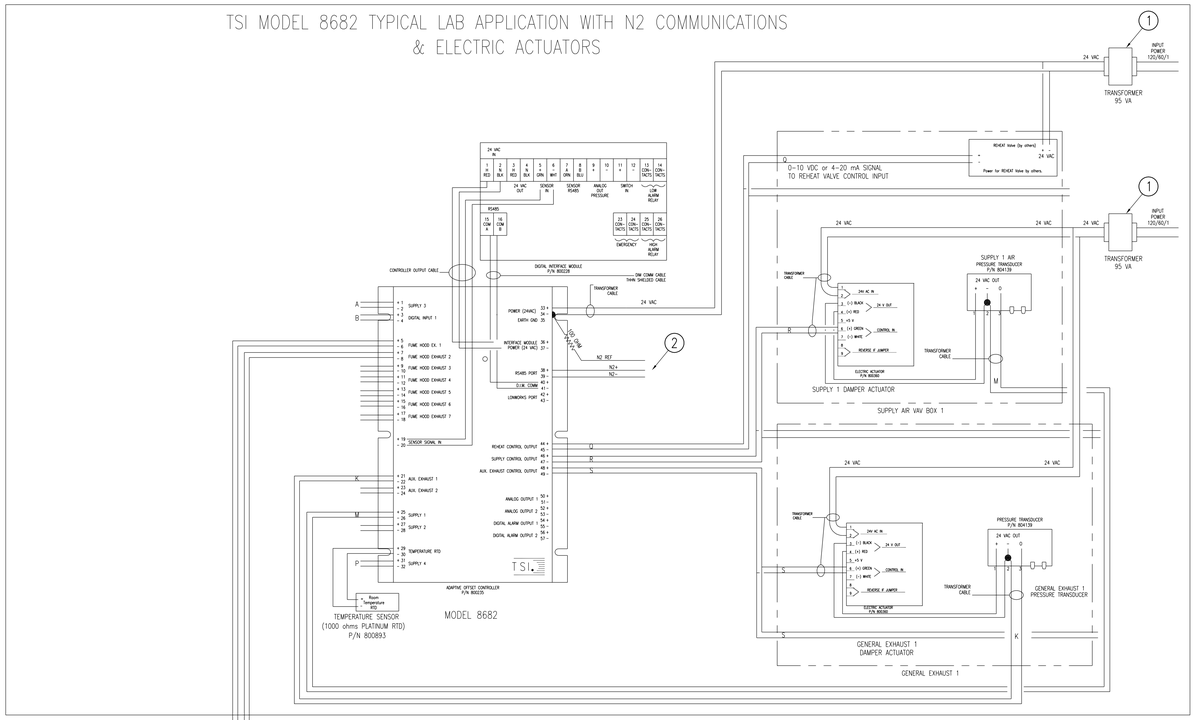

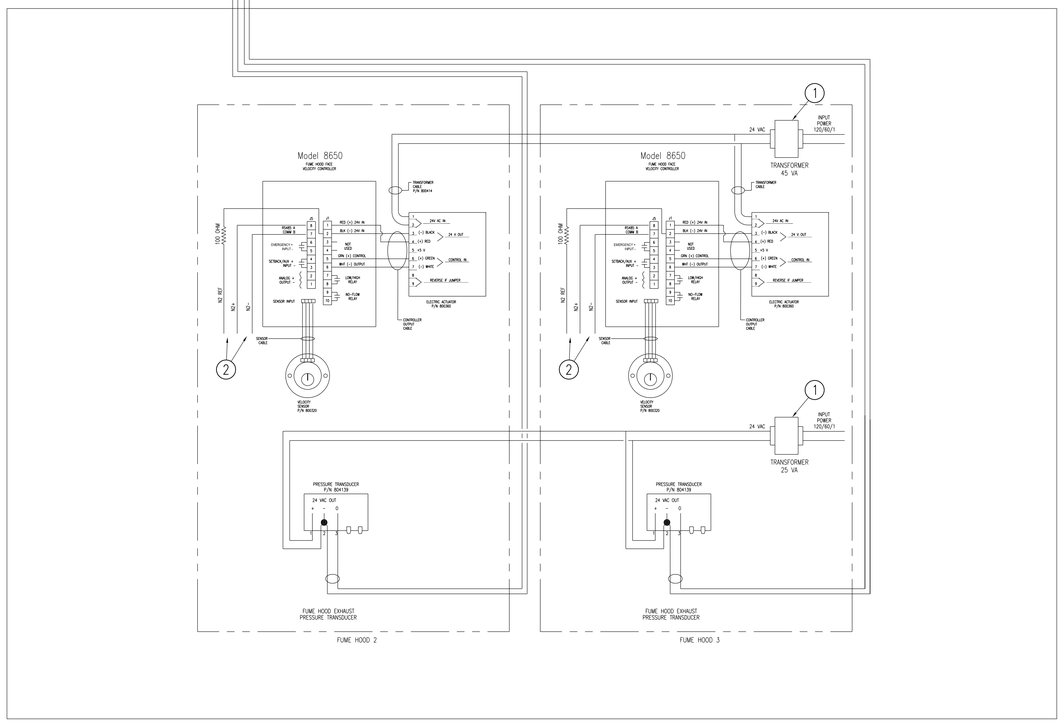

TSI MODEL 8682 TYPICAL LAB APPLICATION WITH N2 COMMUNICATIONS
& ELECTRIC ACTUATORS FOR LAB ROOM 270

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SALT LAKE COMMUNITY COLLEGE
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SALT LAKE CITY, UTAH

CONTROL SCHEMATIC DETAILS

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED
NO. G5
REV. 0

SCI PROJECT NO:

CADD E1-R3

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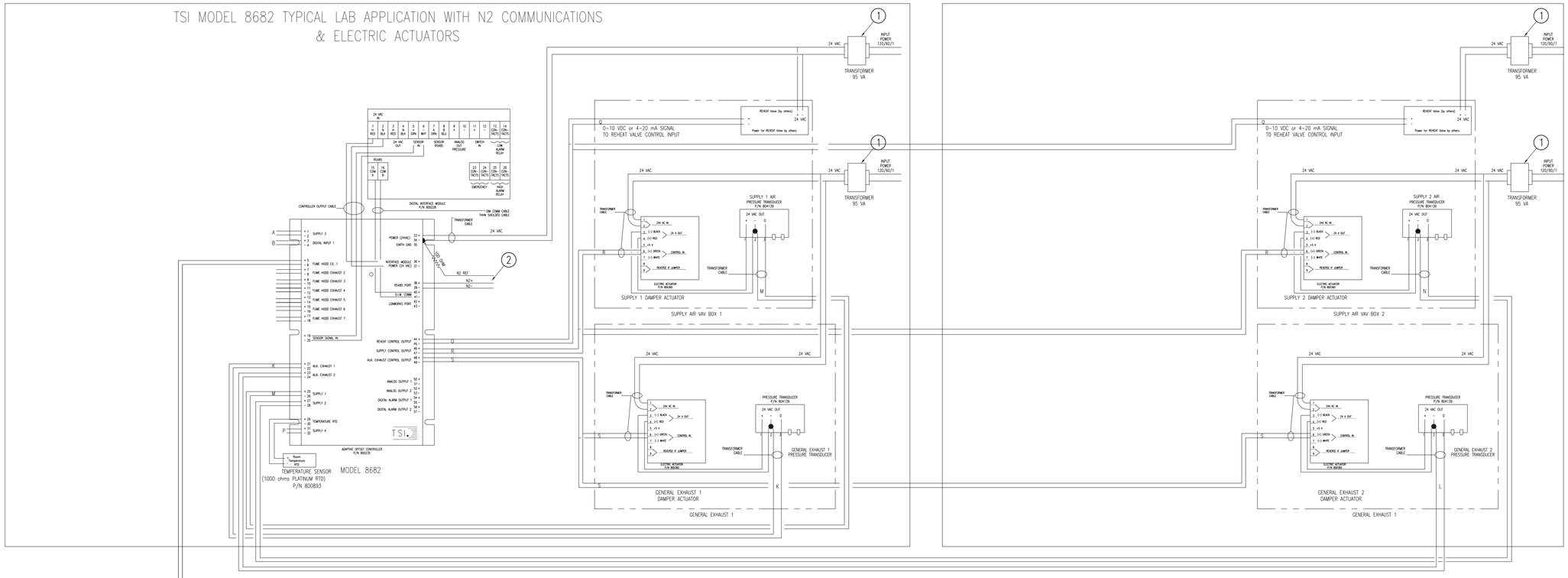

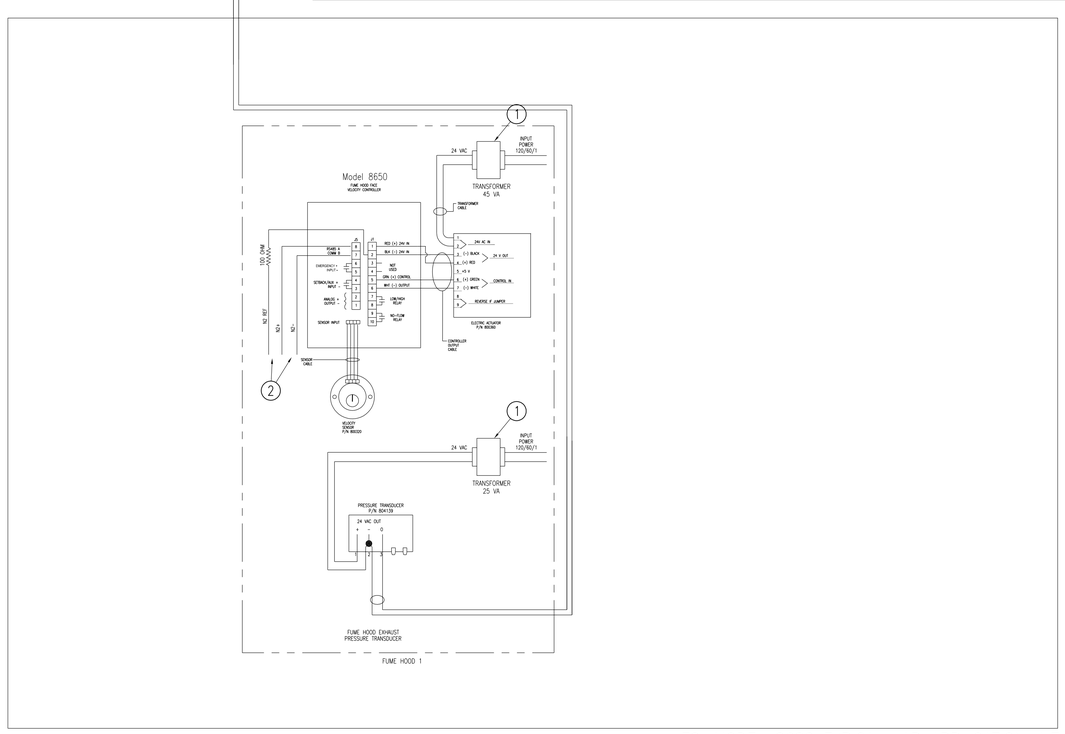

TSI MODEL 8682 TYPICAL LAB APPLICATION WITH N2 COMMUNICATIONS
& ELECTRIC ACTUATORS FOR LAB ROOMS 360, 380, 398, 385

KEY NOTES:

1. 120 VOLT POWER IS AVAILABLE AT EACH SUPPLY BOX AND EXHAUST HOOD.
2. CONNECT TO THE EXISTING JOHNSON CONTROLS N2 NETWORK.

GENERAL NOTES:

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2. SEE INSTALLATION INSTRUCTIONS, P/N 1980484 FOR MORE DETAILED INFORMATION ON TRANSFORMER WIRING AND INSTALLATION.
3. 20 GAGE PLENUM RATED CABELS FOR ALL CONTROL WIRING UNLESS OTHERWISE NOTED
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SALT LAKE CITY, UTAH

CONTROL SCHEMATIC DETAILS

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED
NO. G6
REV. 0

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KEY NOTES:

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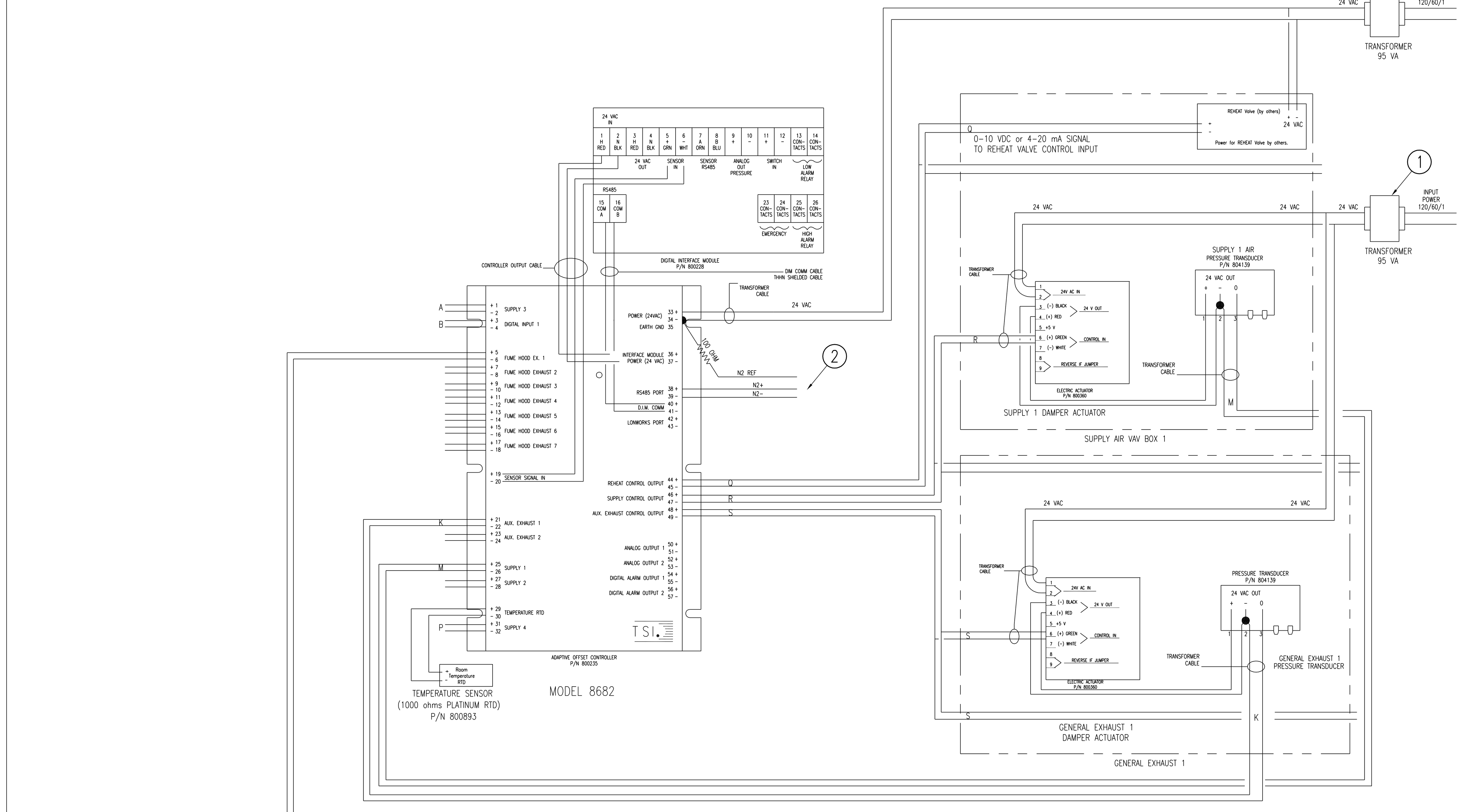
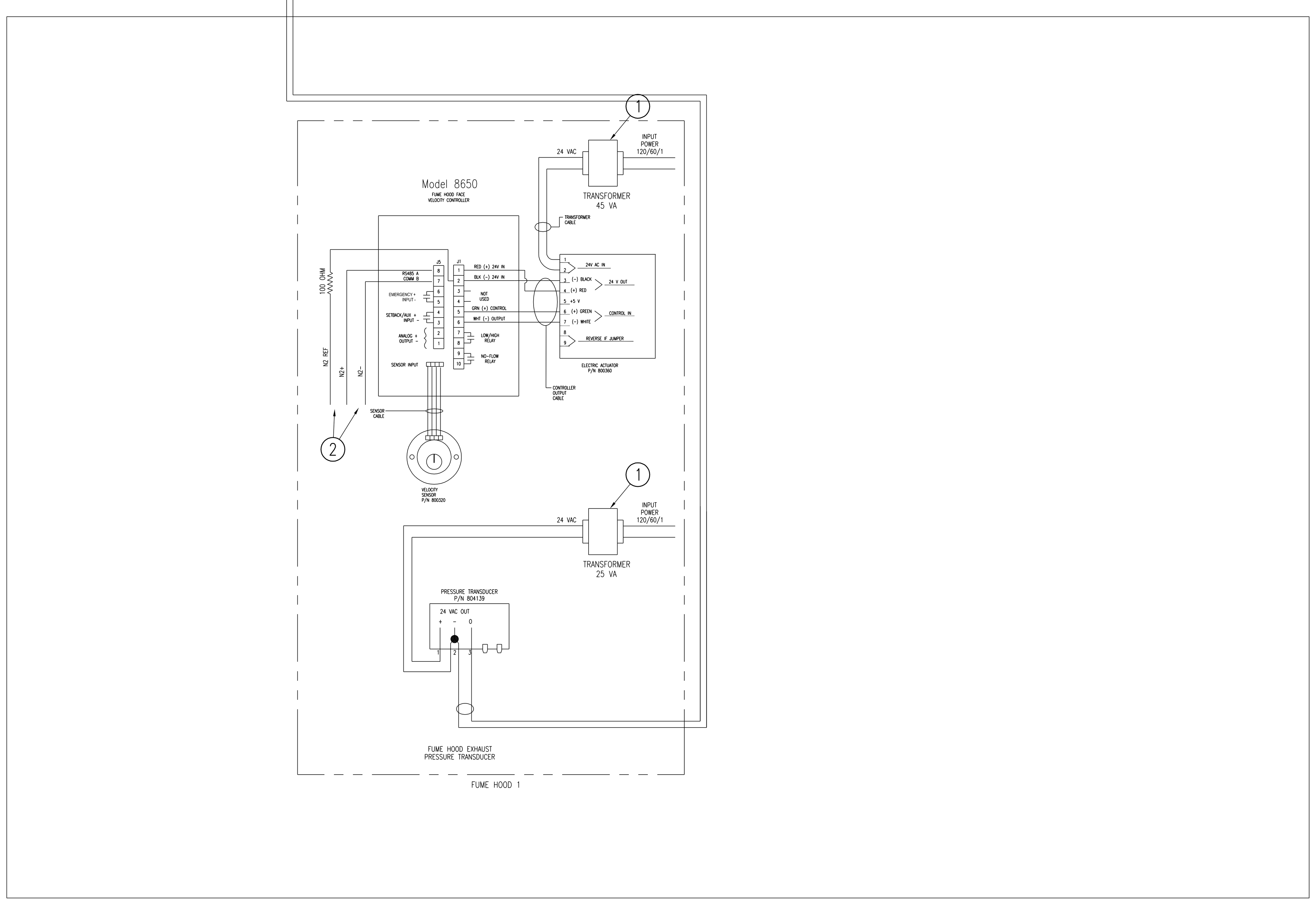
TSI MODEL 8682 TYPICAL LAB APPLICATION WITH N2 COMMUNICATIONS & ELECTRIC ACTUATORS





TSI MODEL 8682 TYPICAL LAB APPLICATION WITH N2 COMMUNICATIONS & ELECTRIC ACTUATORS FOR LAB ROOMS 370, 390, & 379

NO.	REVISIONS	DWN	APVD	APVD	DATE

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CONTROL SCHEMATIC DETAILS

DESIGNED D. ROLLINS
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APPROVED
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DATE 10/12/07

SCALE: AS NOTED
NO. G7
REV. 0

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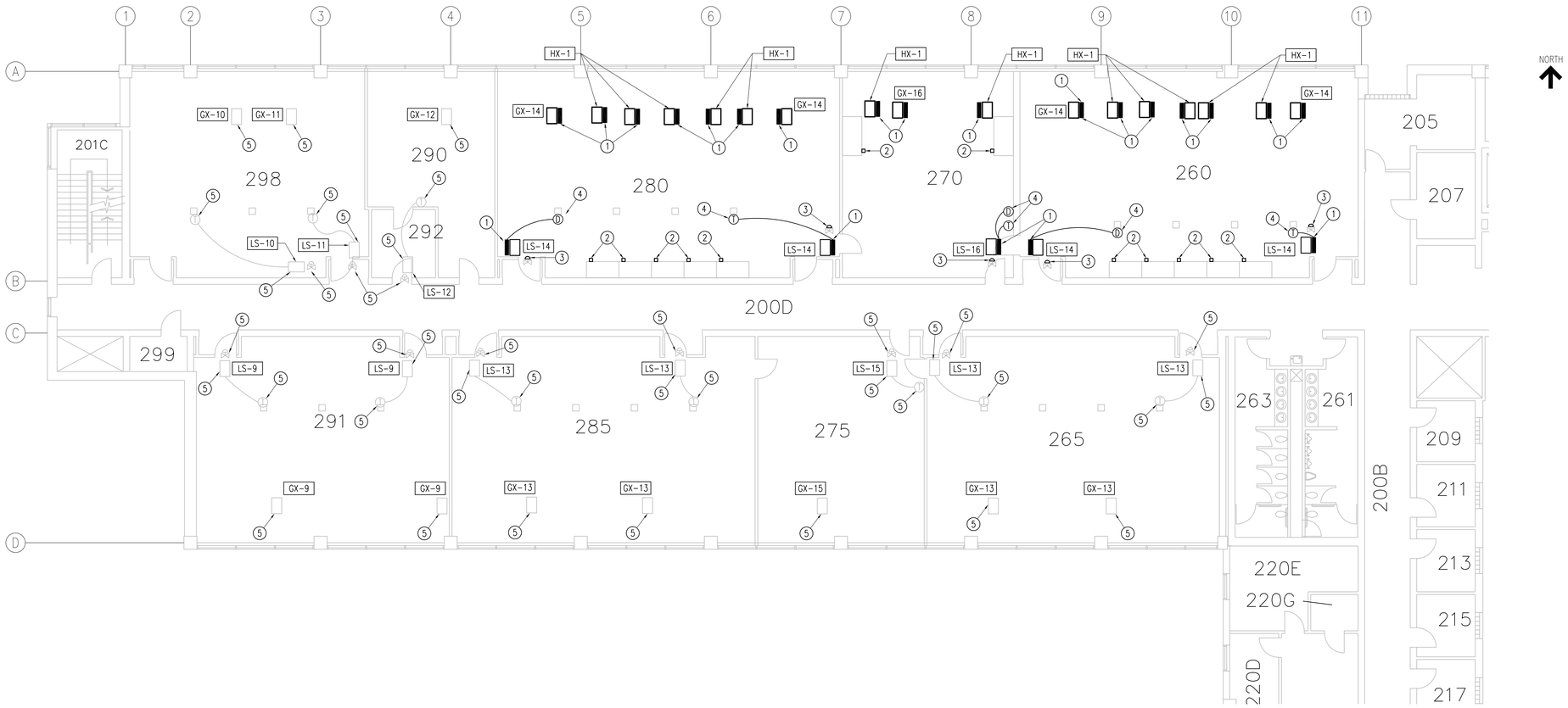
CADD E1-R3

SCI PROJECT NO:



PARTIAL SECOND FLOOR – MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES:

1. PROVIDE NEW DAMPER ACTUATOR AND ACTUATOR CONTROLLERS. AIR VOLUME SHALL CONFORM TO EXISTING AS-BUILT EQUIPMENT SCHEDULES. RE-USE EXISTING VAV AIR DAMPERS.
2. PROVIDE AIR VELOCITY SENSOR AND CONTROL KEYPAD AT EACH HOOD.
3. PROVIDE NEW ELECTRIC HOT WATER REHEAT CONTROL VALVE ACTUATORS, TYPICAL. JOHNSON CONTROLS MODEL: VA-7152-1001 PROPORTIONAL. REUSE EXISTING HW CONTROL VALVE BODIES.
4. PROVIDE NEW ROOM TEMPERATURE DETECTORS AND DIGITAL INTERFACE MODULE ALONG WITH NEW VAV CONTROLS.
5. IN THE LAB ROOMS WITH NO EXISTING FUME HOODS: THE EXISTING CONTROLS, ACTUATORS, AND WIRES HAVE ALREADY BEEN REPLACED BY OTHERS, BUT THEY SHALL BE INCLUDED IN AIR AND HOT WATER BALANCING SCOPE OF WORK.

GENERAL NOTE:

1. PROVIDE NEW CONDUITS FOR ALL CONTROL WIRING.

LEGEND

XX-X	EQUIPMENT TAG
T	T-STAT
	ACTUATOR/CONTROL VALVE
D	DIGITAL INTERFACE MODULE

NO.	REVISIONS	DWN	APVD	APVD	DATE

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www.stanleygroup.com

SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

PARTIAL SECOND FLOOR
MECHANICAL PLAN

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. M2.5 REV. 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD E1-R3

SCI PROJECT NO:

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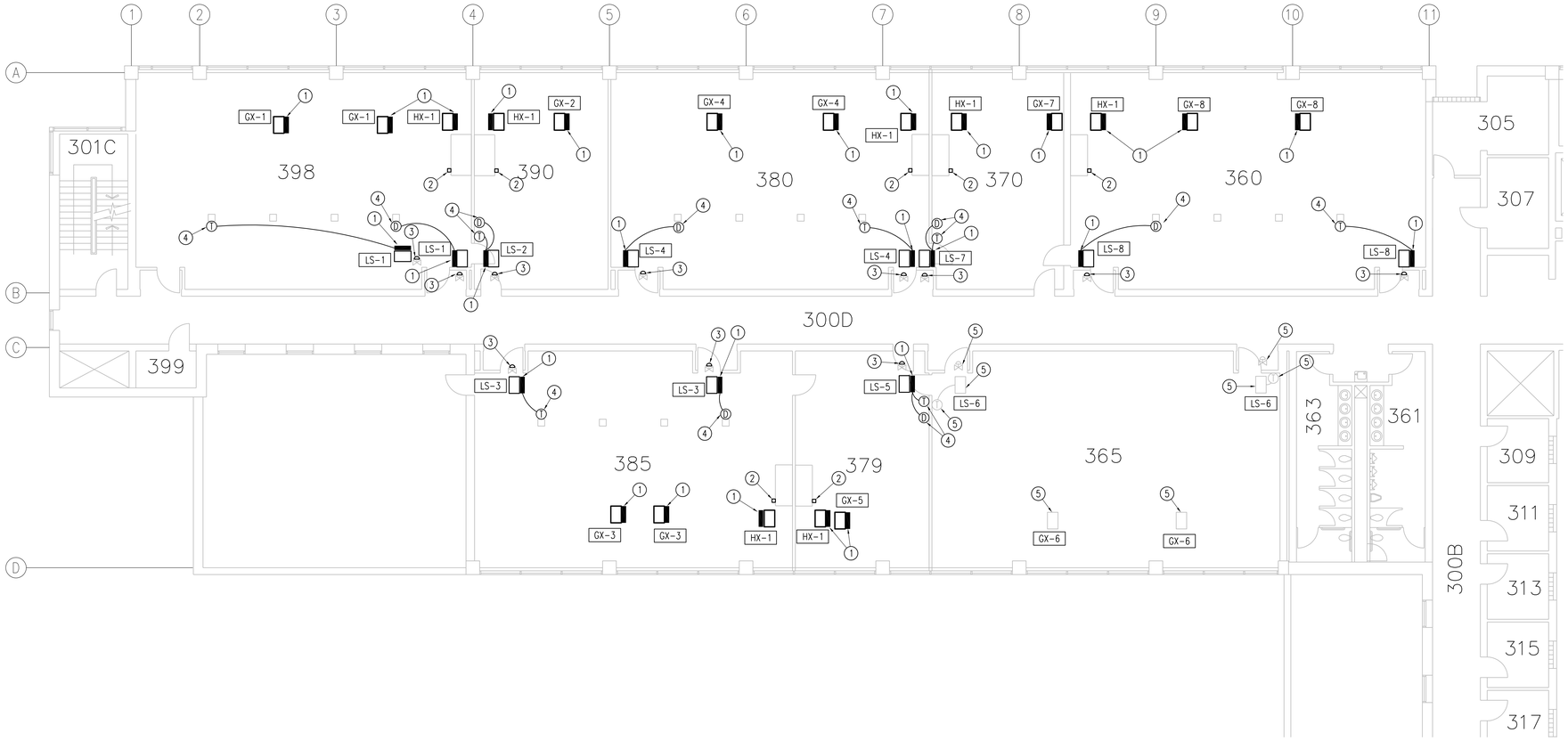

PARTIAL THIRD FLOOR – MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES:

1. PROVIDE NEW DAMPER ACTUATOR AND ACTUATOR CONTROLLERS. AIR VOLUME SHALL CONFORM TO EXISTING AS-BUILT EQUIPMENT SCHEDULES. RE-USE EXISTING VAV AIR DAMPERS.
2. PROVIDE AIR VELOCITY SENSOR AND CONTROL KEYPAD AT EACH HOOD.
3. PROVIDE NEW ELECTRIC HOT WATER REHEAT CONTROL VALVE ACTUATORS, TYPICAL. JOHNSON CONTROLS MODEL: VA-7152-1001 PROPORTIONAL.
4. PROVIDE NEW ROOM TEMPERATURE DETECTORS AND DIGITAL INTERFACE MODULES ALONG WITH NEW VAV CONTROLS.
5. IN THE LAB ROOMS WITH NO EXISTING FUME HOODS: THE EXISTING CONTROLS, ACTUATORS, AND WIRES HAVE ALREADY BEEN REPLACED BY OTHERS, BUT THEY SHALL BE INCLUDED IN AIR AND HOT WATER BALANCING SCOPE OF WORK.

GENERAL NOTE:

1. PROVIDE NEW CONDUITS FOR ALL CONTROL WIRING.

LEGEND

XX-X	EQUIPMENT TAG
T	T-STAT
	ACTUATOR/CONTROL VALVE
D	DIGITAL INTERFACE MODULE

NO.	REVISIONS	DWN	APVD	APVD	DATE

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SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

PARTIAL THIRD FLOOR
MECHANICAL PLAN

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. M2.7 REV. 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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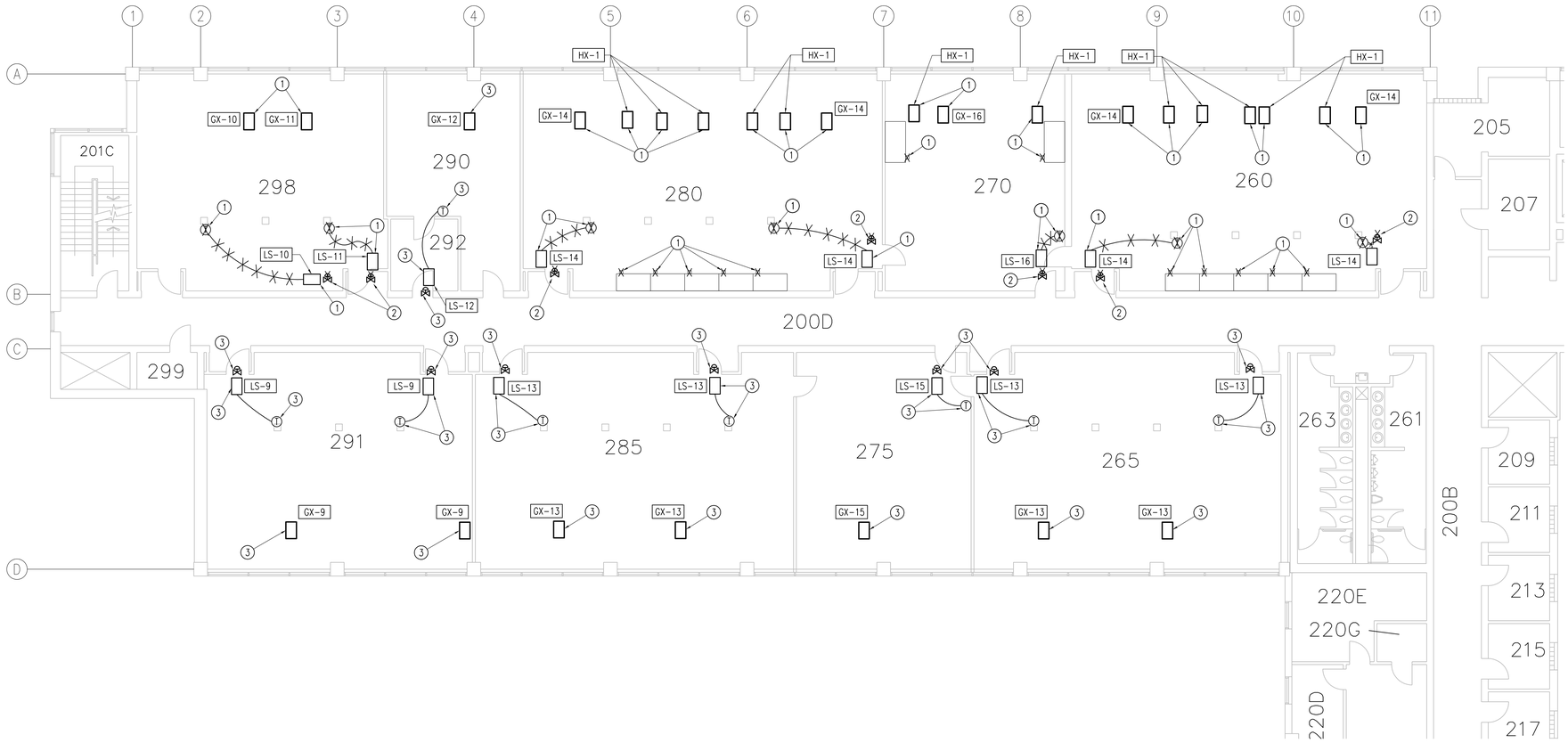

PARTIAL SECOND FLOOR – HVAC PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES:

1. DEMO AND REMOVE EXISTING CROWN CONTROLS DAMPER ACTUATORS, CONTROLLERS, SENSORS, AND THERMOSTATS. RE-USE EXISTING VAV AIR DAMPERS.
2. REUSE EXISTING HW CONTROL VALVE BODIES. DEMO EXISTING PNEUMATIC ACTUATORS, JOHNSON CONTROLS: V-3000-1. RETURN ALL ACTUATOR PARTS TO OWNER.
3. IN THE LAB ROOMS WITH NO EXISTING FUME HOODS: THE EXISTING CONTROLS, ACTUATORS, AND WIRES HAVE ALREADY BEEN REPLACED BY OTHERS, BUT THEY SHALL BE INCLUDED IN AIR AND HOT WATER BALANCING SCOPE OF WORK.

GENERAL NOTE:

1. EXISTING CONDUIT SERVING THERMOSTATS TO REMAIN AND REUSE WITH NEW WORK.

LEGEND

XX-X	EQUIPMENT TAG
T	T-STAT
	EXISTING ACTUATOR/CONTROL VALVE
	DEMOLISH

NO.	REVISIONS	DWN	APVD	APVD	DATE

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SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

PARTIAL SECOND FLOOR
MECHANICAL PLAN
DEMOLITION

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. MD2.5 REV. 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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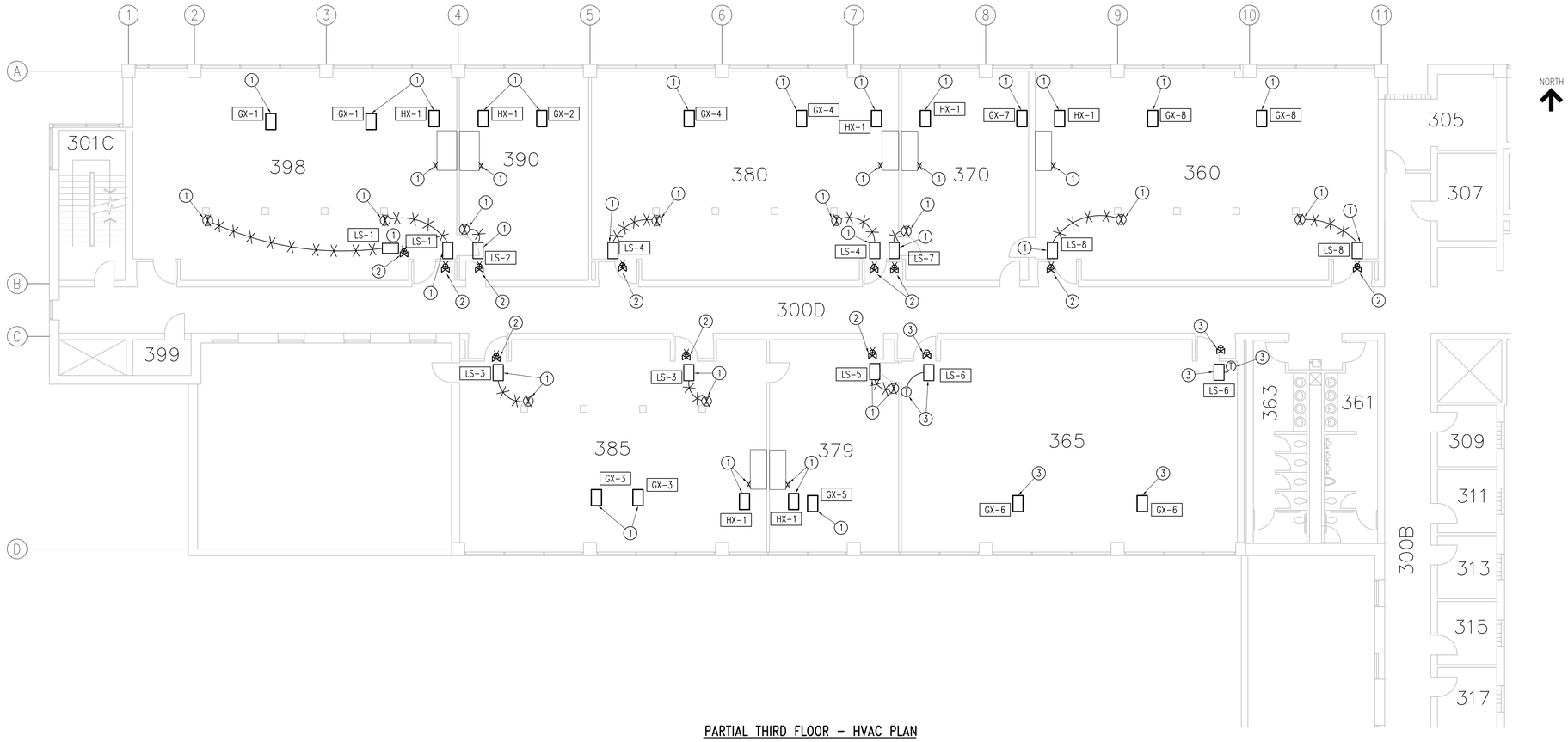

PARTIAL THIRD FLOOR – HVAC PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES:

1. DEMO EXISTING CROWN CONTROLS DAMPER ACTUATORS, CONTROLLERS, SENSORS, AND THERMOSTATS. RE-USE EXISTING VAV AIR DAMPERS.
2. REUSE EXISTING HW CONTROL VALVE BODIES. DEMO EXISTING PNEUMATIC ACTUATORS, JOHNSON CONTROLS: V-3000-1, RETURN ALL ACTUATOR PARTS TO OWNERS. CUT, CAP, AND REMOVE EXISTING COMPRESSED AIR TUBING WHERE EXISTING PNEUMATIC COMPONENTS ARE NO LONGER BEING SERVED.
3. IN THE LAB ROOMS WITH NO EXISTING FUME HOODS: THE EXISTING CONTROLS, ACTUATORS, AND WIRES HAVE ALREADY BEEN REPLACED BY OTHERS, BUT THEY SHALL BE INCLUDED IN AIR AND HOT WATER BALANCING SCOPE OF WORK.

GENERAL NOTE:

1. EXISTING CONDUIT SERVING THERMOSTATS TO REMAIN AND REUSE WITH NEW WORK.

LEGEND

XX-X	EQUIPMENT TAG
T	T-STAT
	EXISTING ACTUATOR/CONTROL VALVE
	DEMOLISH

NO.	REVISIONS	DWN	APVD	APVD	DATE

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SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

PARTIAL THIRD FLOOR
MECHANICAL PLAN
DEMOLITION

DESIGNED D. ROLLINS
DRAWN J. KIM
CHECKED D. ROLLINS
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. MD2.7 REV. 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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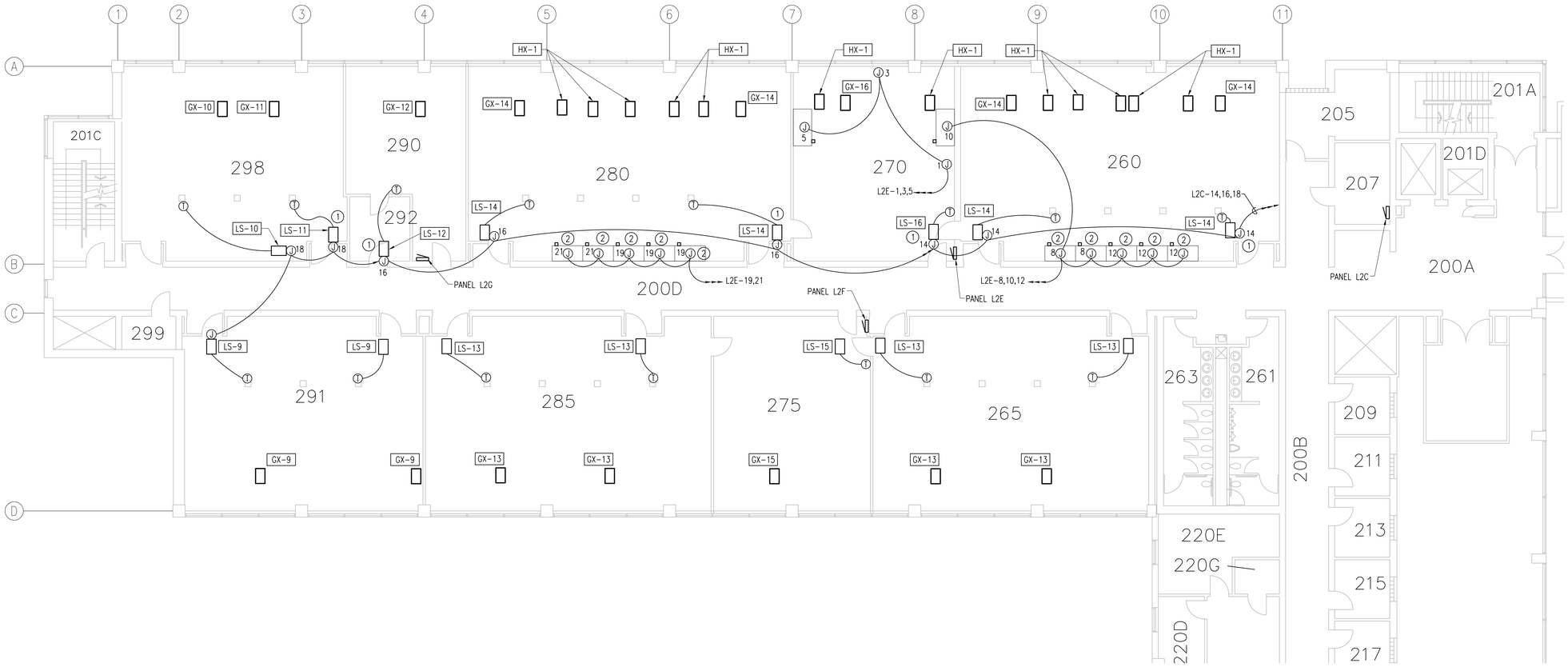

PARTIAL SECOND FLOOR – ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES:

1. EXISTING CIRCUIT PROVIDES POWER TO THE EXISTING VAV CONTROLLER. CONTRACTOR SHALL DISCONNECT POWER FROM THE EXISTING CONTROLLER AND RECONNECT THE SAME CIRCUIT TO THE NEW CONTROLLER TRANSFORMER(S).
2. THE EXISTING HOOD EXHAUST VAV WILL BE RECONFIGURED WITH A NEW CONTROLLER AND ACTUATOR. CONTRACTOR SHALL DISCONNECT POWER FROM THE EXISTING EQUIPMENT AND RECONNECT THE SAME CIRCUIT TO THE NEW EQUIPMENT.

GENERAL NOTES:

1. ALL 120V CIRCUITS SHOWN ARE EXISTING. CIRCUITS ARE SHOWN TO AID THE CONTRACTOR IN REMOVING EXISTING LOADS AND ADDING NEW LOADS TO THE CIRCUITS.
2. CIRCUIT INFORMATION IS FROM EXISTING RECORD DRAWINGS AND HAS NOT BEEN VERIFIED BY THE ENGINEER. CONTRACTOR SHALL VERIFY THAT THE INDICATED CIRCUITS ARE FED FROM THE PANELS AND BREAKERS INDICATED PRIOR TO REMOVING EQUIPMENT.

LEGEND

XX-X	EQUIPMENT TAG
T	T-STAT
J	EXISTING JUNCTION BOX

NO.	REVISIONS	DWN	APVD	APVD	DATE

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SALT LAKE COMMUNITY COLLEGE
SCIENCE LAB HOOD CONTROLS UPGRADES
SALT LAKE CITY, UTAH

PARTIAL SECOND FLOOR
ELECTRICAL PLAN

DESIGNED L. VANCE
DRAWN J. KIM
CHECKED L. VANCE
APPROVED
APPROVED
DATE 10/12/07

SCALE: AS NOTED

NO. E2.5 REV. 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD E1-R3

SCI PROJECT NO.

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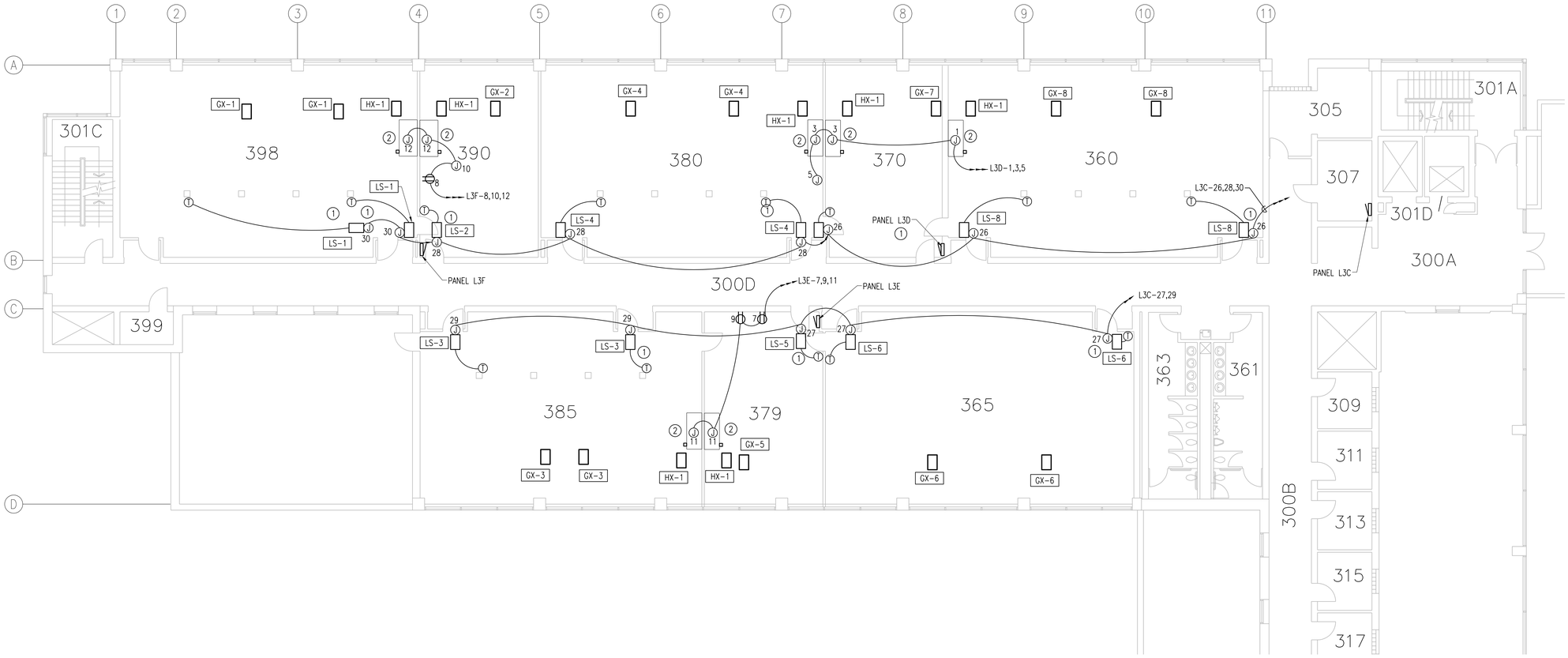

PARTIAL THIRD FLOOR – ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES:

1. EXISTING CIRCUIT PROVIDES POWER TO THE EXISTING VAV CONTROLLER. CONTRACTOR SHALL DISCONNECT POWER FROM THE EXISTING CONTROLLER AND RECONNECT THE SAME CIRCUIT TO THE NEW CONTROLLER TRANSFORMER(S).
2. THE EXISTING HOOD EXHAUST VAV WILL BE RECONFIGURED WITH A NEW CONTROLLER AND ACTUATOR. CONTRACTOR SHALL DISCONNECT POWER FROM THE EXISTING EQUIPMENT AND RECONNECT THE SAME CIRCUIT TO THE NEW EQUIPMENT.

GENERAL NOTES:

1. ALL 120V CIRCUITS SHOWN ARE EXISTING. CIRCUITS ARE SHOWN TO AID THE CONTRACTOR IN REMOVING EXISTING LOADS AND ADDING NEW LOADS TO THE CIRCUITS.
2. CIRCUIT INFORMATION IS FROM EXISTING RECORD DRAWINGS AND HAS NOT BEEN VERIFIED BY THE ENGINEER. CONTRACTOR SHALL VERIFY THAT THE INDICATED CIRCUITS ARE FED FROM THE PANELS AND BREAKERS INDICATED PRIOR TO REMOVING EQUIPMENT.

LEGEND

XX-X	EQUIPMENT TAG
T	T-STAT
J	EXISTING JUNCTION BOX

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PARTIAL THIRD FLOOR
ELECTRICAL PLAN

DESIGNED L. VANCE
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SCALE: AS NOTED

NO. E2.7 REV. 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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