DRAWING NOTES

1 THE FOLLOWING NOTES APPLY TO ONLY THIS DRAWING.

2 FOR ELECTRICAL SYMBOLS LEGEND AND ELECTRICAL TRADE NOTES, REFER TO DRAWING A-D-290-08-0015301-E1.

PANELBOARD: P301C-EXISTING

BUS SIZE: 225 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING: 10KA

MAIN: ( )MCB (X)MLO
MCB AMPS: 225
LOCATION: MORRILL III CORRIDOR 399A
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
AC UNIT RM 302				30*	1	2	30*				AC UNIT RM 301
					3	4					
SPARE				20*	5	6	30*				AC UNIT RM 304
LIGHTING AREA 306				20*	7	8					
LIGHTING AREA 304				20*	9	10					
-				20*	11	12	20*				EXH FAN #2 RM 305
EH FUME HOOD RM 314				20*	13	14					
RCOD RCPT RM 305				20*	15	16	30*				AC UNIT RM 303 SOUTH WALL
J CNTRL RM 304/306				20*	17	18					
ETP - RM 308	500			15N	19	20	30*				AC UNIT RM 303 NORTH WALL
SPACE					21	22					
SPACE					23	24					
SPACE					25	26					
SPACE					27	28					
SPACE					29	30					
SPACE					31	32					
SPACE					33	34					
SPACE					35	36					
SPACE					37	38					
SPACE					39	40					
SPACE					41	42					
SUBTOTAL	500	0	0				0	0	0		SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 500
TOTAL WATTS L2: 0
TOTAL WATTS L3: 0
TOTAL WATTS: 500
TOTAL AMPS @ 100%: 1 AMPS
TOTAL AMPS @ 125%: 2 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: P301C-EXISTING

PANELBOARD: P4B-1 EXISTING

BUS SIZE: 225 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING: 22KA

MAIN: ( )MCB (X)MLO
MCB AMPS: 225
LOCATION: MORRILL III ELECT CLOSET 403
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RCPT RM 403-407				20*	1	2	20*				RCPT 401N CTR
RCPT RM 403-403A				20*	3	4	20*				RCPT 401E
A RCPT RM 403				20*	5	6	20*				RCPT 401N
RCPT RM 401N				20*	7	8	20*				*A* RCPT 404
RCPT RM 404B				20*	9	10	20*				TABLE RM 408S
RCPT RM 404/404A/401A				20*	11	12	20*				*A* RCPT 406
TABLE RCPT RM 404W/404N				20*	13	14	20*				CTR TABLE RN 403
CTR TABLE RM 403				20*	15	16	20*				TABLE RM 403S
CTR TABLE RM 403				20*	17	18	20*				CTR TABLE RM 403
CTR TABLE RM 403N				20*	19	20	20*				CTR TABLE RM 401E
CTR TABLE RM 403E				20*	21	22	20*				TABLE RM 404AW
TABLE RM 401E				20*	23	24	20*				RCPT 401B
TABLE RM 401B				20*	25	26	20*				TABLE RM 404AW
DRY CAB RCPT RM 401				20*	27	28	20*				CTR TABLE RM 404A
TABLE RM 401B/C				20*	29	30	20*				
TABLE RM 406				20*	31	32	20*				TABLE RM 401W
TABLE RM 406A/B				20*	33	34	20*				TABLE RM 401W
RCPT - NEXT TO PNL				20*	35	36	20*				TABLE RM 401W
–				20E	37	38	15N	500			ETP - RM#408
–				20E	39	40					SPACE
–				20E	41	42					SPACE
SUBTOTAL	0	0	0					500	0	0	SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 500
TOTAL WATTS L2: 0
TOTAL WATTS L3: 0
TOTAL WATTS: 500
TOTAL AMPS @ 100%: 1 AMPS
TOTAL AMPS @ 125%: 2 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: P4B-1 EXISTING

PANELBOARD: P2B-2 EXISTING

BUS SIZE: 225 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING: 22KA

MAIN: ( )MCB (X)MLO
MCB AMPS: 225
LOCATION: MORRILL III ELECT CLOSET C205
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
UNIT HEATR 321 RM 205				20*	1	2	20*				X21 EX. FAN 210B
U.V. #25 RM 203				20*	3	4	20*				X22 EX. FAN 210/210A
U.V. #26 RM 205				20*	5	6	20*				U.V. #23 RM 206
CORRIDOR RCPT				20*	7	8	20*				RCPT RCPT EAST
U.V. #24 RM 204				20*	9	10	20*				RCPT STAIR WEST
A RCPT RM 202/206				20*	11	12	20*				TABLES RM 210A/210B
RCPT & FUME HD RM 202				20*	13	14	20*				RF FAN TO FUME HD 202
AC RM 212				20*	15	16	20*				A.C. RM 202
					17	18					
					19	20	20*				RCPT UNDER PANEL
-				20*	21	22	20*				-
-				20*	23	24	20*				-
-				30*	25	26	20*				-
					27	28	20*				-
					29	30	20*				F.A.
ETP - RCPT RM 208	400			15N	31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTAL	400	0	0				0	0	0		SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 400
TOTAL WATTS L2: 0
TOTAL WATTS L3: 0
TOTAL WATTS: 400
TOTAL AMPS @ 100%: 1 AMPS
TOTAL AMPS @ 125%: 1 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: P2B-2 EXISTING

PANELBOARD: BP EXISTING

BUS SIZE: 225 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING:

MAIN: ( )MCB (X)MLO
MCB AMPS: 225
LOCATION: MORRILL III CORRIDOR 199A
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
					1	2					-
-					3	4					
					5	6					
-				50*	7	8	30*				-
					9	10					
-				20*	11	12	20*				-
-				20*	13	14	20E				
				20*	15	16	20E				
-				20*	17	18	20E				
-				30*	19	20	20E				
					21	22	20E				
				20*	23	24	20E				
				20*	25	26	20E				
ETP - RM #110		400		15N	27	28	30*				-
SPACE					29	30					
					31	32					
DO NOT USE					33	34					DO NOT USE
					35	36					
					37	38					
MCB				100*	39	40					DO NOT USE
					41	42					
SUBTOTAL	0	400	0				0	0	0		SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 0
TOTAL WATTS L2: 400
TOTAL WATTS L3: 0
TOTAL WATTS: 400
TOTAL AMPS @ 100%: 1 AMPS
TOTAL AMPS @ 125%: 1 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: BP EXISTING

PANELBOARD: PBR EXISTING

BUS SIZE: 225 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING: 22KA

MAIN: ( )MCB (X)MLO
MCB AMPS: 225
LOCATION: MORRILL 11 BASEMENT
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
–				20*	1	2	20*				–
–				20*	3	4	20*				–
–				20*	5	6	20*				–
–				20*	7	8	20*				–
–				20*	9	10	20*				–
–				20*	11	12	20*				–
–				20*	13	14	20*				–
–				20*	15	16	20*				–
–				20*	17	18	20*				–
–				20*	19	20	20*				–
–				20*	21	22	20*				–
–				20*	23	24	20*				–
–				20*	25	26	20*				–
–				20*	27	28	20*				–
–				20*	29	30	20*				–
–				20*	31	32	20*				–
–				20*	33	34	20*				–
–				20*	35	36	20*				–
–				20*	37	38	15N	828			P1
–				20*	39	40			828		–
–				20*	41	42					–
SUBTOTAL	0	0	0					828	828	0	SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 828
TOTAL WATTS L2: 828
TOTAL WATTS L3: 0
TOTAL WATTS: 1656
TOTAL AMPS @ 100%: 5 AMPS
TOTAL AMPS @ 125%: 6 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: PBR EXISTING

PANELBOARD: P99-L LEFT SIDE EXISTING

BUS SIZE: 100 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING:

MAIN: (X)MCB ()MLO
MCB AMPS: 100
LOCATION: MORRILL III CORRIDOR 99D (BASEMENT)
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
FIRE ALARM				20*	1	2	20E	1920			DISC NJET SYSTEM
DISC SAMPLE PMP CTRL		2400		25N	3	4	20E		180		RCPT B3 NEUT SYSTEM
SPARE				20*	5	6	20E			180	RCPT/LIGHTING - VAULT
CIRC #3				20*	7	8	20*				CIRC #1
					9	10					
					11	12					
CIRC #2				20*	13	14	20*				CONDENSATE PMP
					15	16					
					17	18					
WATER CHILLER				20*	19	20	20*				---
					21	22					
					23	24					
#7 COMPRESSOR				20*	25	26	20*				WALK IN (BOX 121)
					27	28					
					29	30					
SUCTION PMP				20*	31	32	20*				WALK IN (BOX 123A)
					33	34					
					35	36					
SPARE				20E	37	38	50E				SPARE
					39	40					
					41	42					
SUBTOTAL	0	2400	0					1920	180	180	SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 1920
TOTAL WATTS L2: 2580
TOTAL WATTS L3: 180
TOTAL WATTS: 4680
TOTAL AMPS @ 100%: 13 AMPS
TOTAL AMPS @ 125%: 16 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: P99-L LEFT SIDE EXISTING

PANELBOARD: P99-R RIGHT SIDE EXISTING

BUS SIZE: 100 AMPS
VOLTAGE: 208 Y/120V 3PH,4W
NEUTRAL: (X)100% ( )200% ( )NONE
ISOLATED GND BUS: ( )YES (X)NO
SHOT CKT RATING:

MAIN: (X)MCB ()MLO
MCB AMPS: 100
LOCATION: MORRILL III CORRIDOR 99D (BASEMENT)
MOUNTING: SURFACE
TVSS: ( ) YES (X) NO

SERVICE RATED: ( ) YES (X) NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
EX FAN				20*	1	2	20E				SPARE
JOHNSON CONTROL				20*	3	4	20E				SPARE
AIR DRYER				20*	5	6	20E				SPARE
HOT WTR CIR				20*	7	8	20*				#6 REF COMP
					9	10					
					11	12					
DRY COOLER				20*	13	14	20*				WALK IN (BOX 11C)
					15	16					
					17	18					
EXH FAN EQUIP				20*	19	20	20*				WALK IN (BOX 113A)
					21	22					
					23	24					
COMPRESSOR				20*	25	26	20*				WALK IN (BOX 213A)
					27	28					
					29	30					
PMPS RM#306				15*	31	32	20*				AIR COMP #1
					33	34					
					35	36					
AC #2				20*	37	38	50*				AC#3
					39	40					
					41	42					
SUBTOTAL	0	0	0					0	0	0	SUBTOTAL

NOTES:
* = EXISTING CIRCUIT & CIRCUIT BREAKER
E = EXISTING CIRCUIT BREAKER
N = NEW CIRCUIT BREAKER

TOTAL WATTS L1: 0
TOTAL WATTS L2: 0
TOTAL WATTS L3: 0
TOTAL WATTS: 0
TOTAL AMPS @ 100%: 0 AMPS
TOTAL AMPS @ 125%: 0 AMPS

TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP G=GFCI
L=LOCK ON C.B.. H=HACR C.B.
A=AFCI

PROJ. NO. 5558
PNLBD: P99-R RIGHT SIDE EXISTING

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REV. NO.	DESCRIPTION	BY	APP'D	DATE

UMASS

UNIVERSITY OF MASSACHUSETTS
FACILITIES PLANNING DIVISION

MORRILL III – SCIENCE CENTER
LAB WASTE NEUTRALIZATION AND SEPARATION OF POTABLE/NON-POTABLE WATER SYSTEMS

PANEL BOARD SCHEDULES

	BY	DATE	PROJECT NO. RFS: 209-5558	CONTRACT NO. UMA 11-06
DRN.	RAB	8/2/10		
APP'D	RAB	8/2/10	SCALE N/A	SHEET 20 OF 21
CKD.	LJE	8/2/10	DRAWING NUMBER	
APP'D	LJE	8/2/10	A-D-290-08-0015301-E5	

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