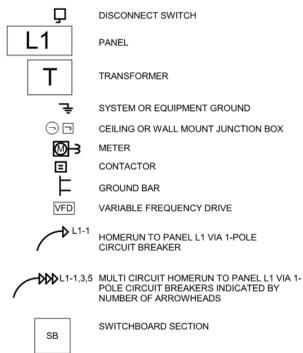
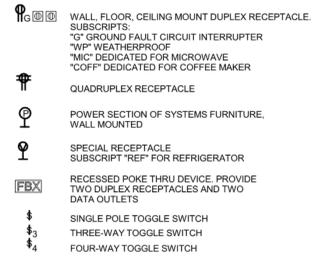


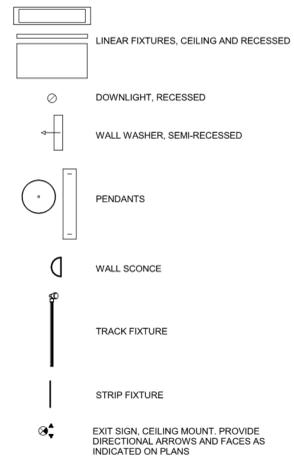
EQUIPMENT LEGEND



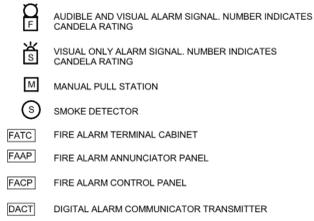
WIRING DEVICES LEGEND



LIGHTING EQUIPMENT LEGEND



FIRE ALARM DEVICE LEGEND



COMMUNICATION DEVICES LEGEND



SECURITY DEVICES LEGEND



SENSOR LEGEND

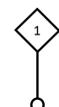


FEEDER TAG SYMBOL



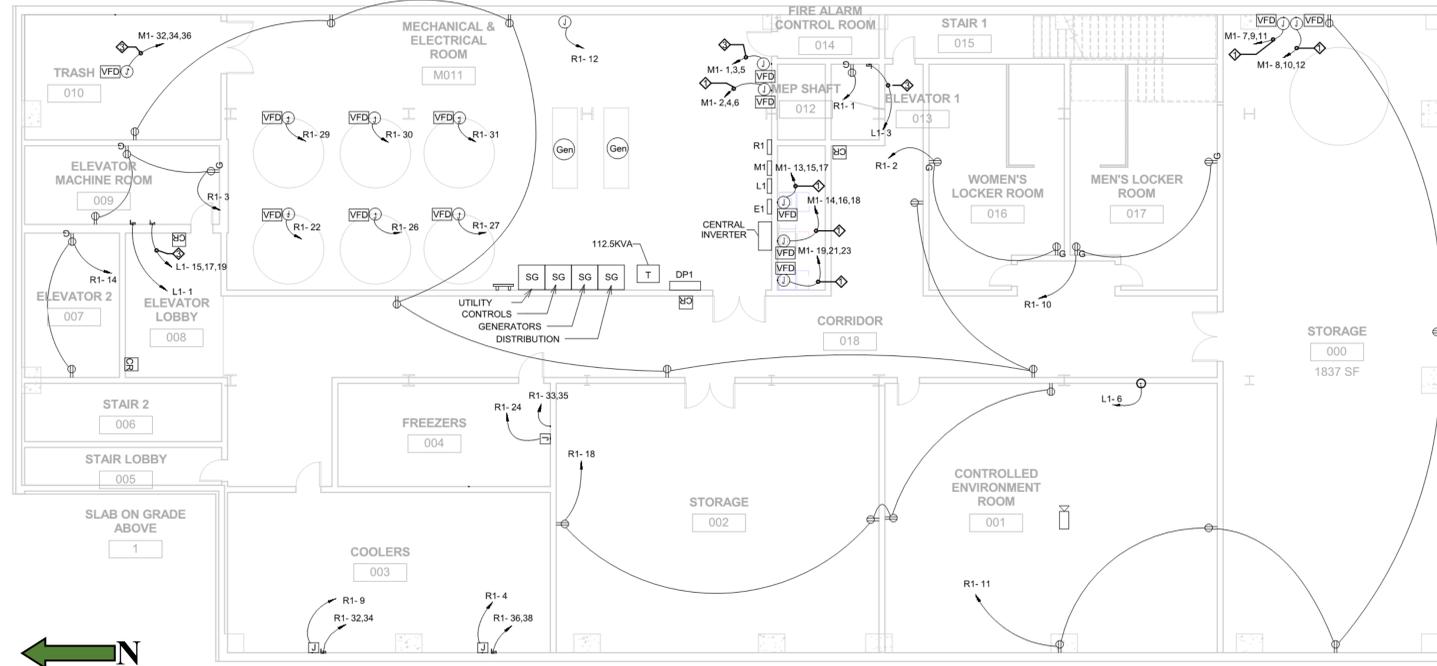
FEEDER SCHEDULE			
TAG #	WIRE	GROUND	CONDUIT
1	4#1	1#6G	2"C
2	4#1/0	1#6G	2"C
3	4#4/0	1#4G	2-1/2"C
4	4-600kcmil	1#2G	4"C
5	3#6	1#8	1-1/4"C
6	3#4/0	1#4G	2.5"C
7	5#4/0	1#1/0G	(2)3"C

BRANCH CIRCUIT TAG SYMBOL



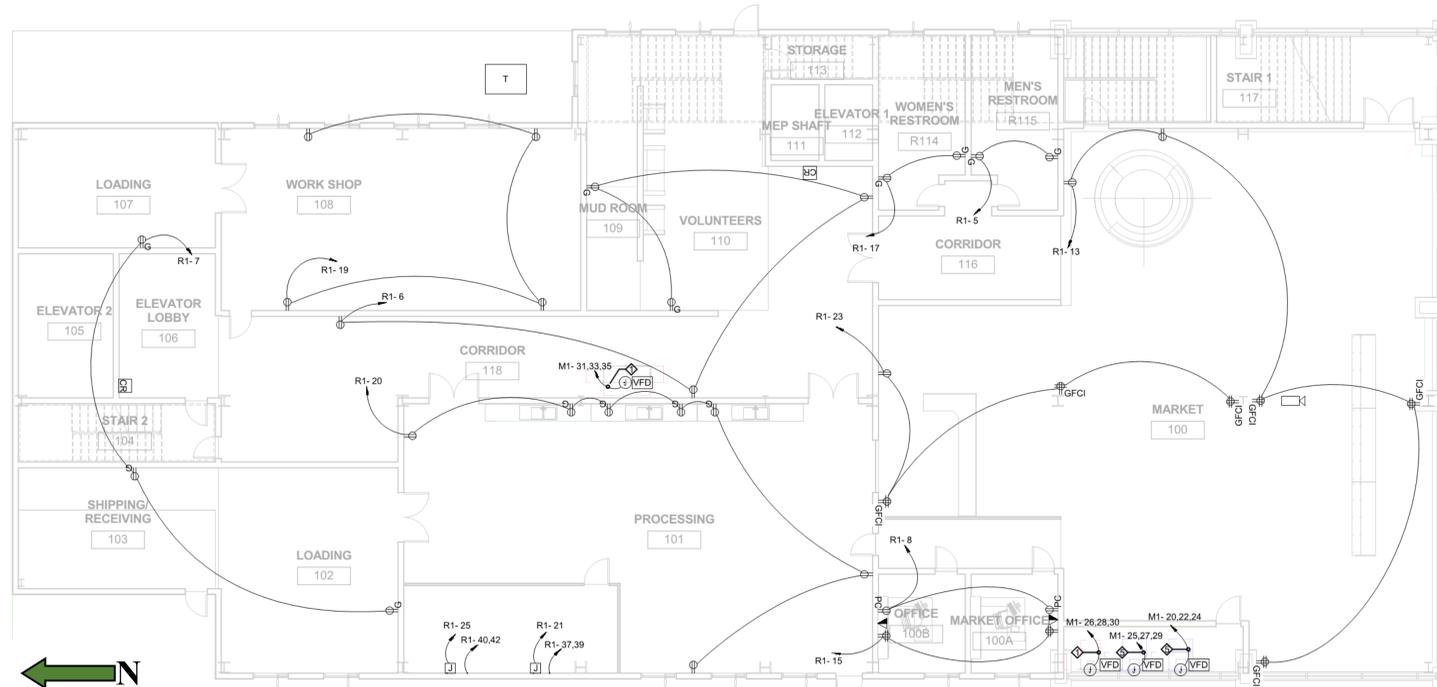
BRANCH CIRCUIT SCHEDULE			
TAG #	WIRE	GROUND	CONDUIT
1	3#12	1#12	3/4"C
2	3#10	1#10	3/4"C
3	3#6	1#8	1-1/4"C
4	3#4	1#8	1-1/4"C
5	3#10	1#10	3/4"C
6	3#8	1#8	1"C

TBD ENGINEERING | POWER PLAN



Basement

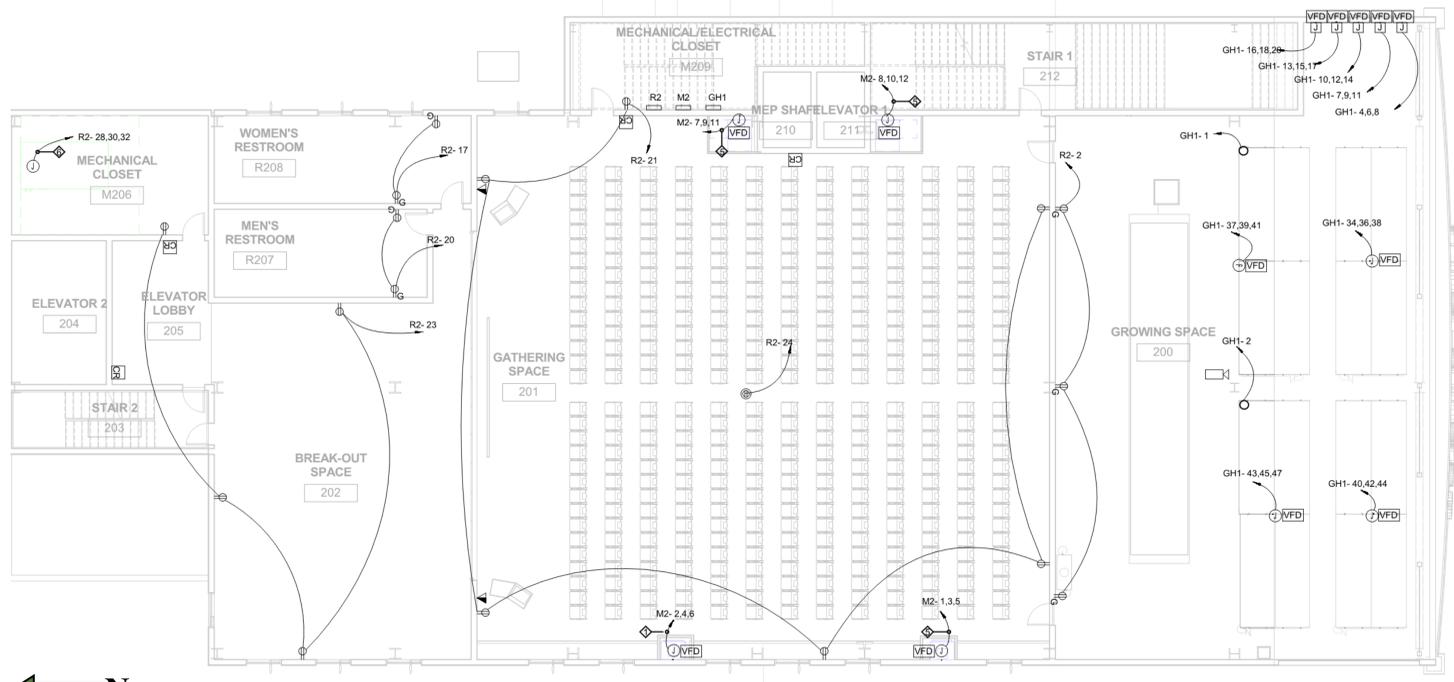
Scale: 1/8" = 1'



First Floor

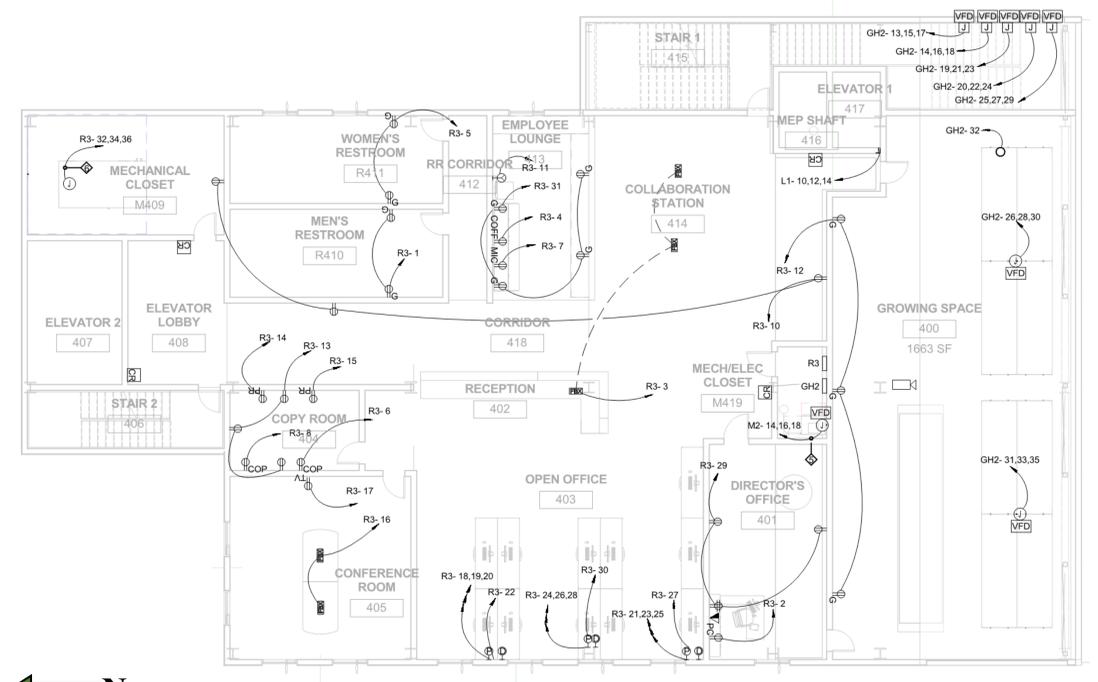
Scale: 1/8" = 1'

TBD ENGINEERING | POWER PLAN



← N
Second Floor

Scale: 1/8" = 1'



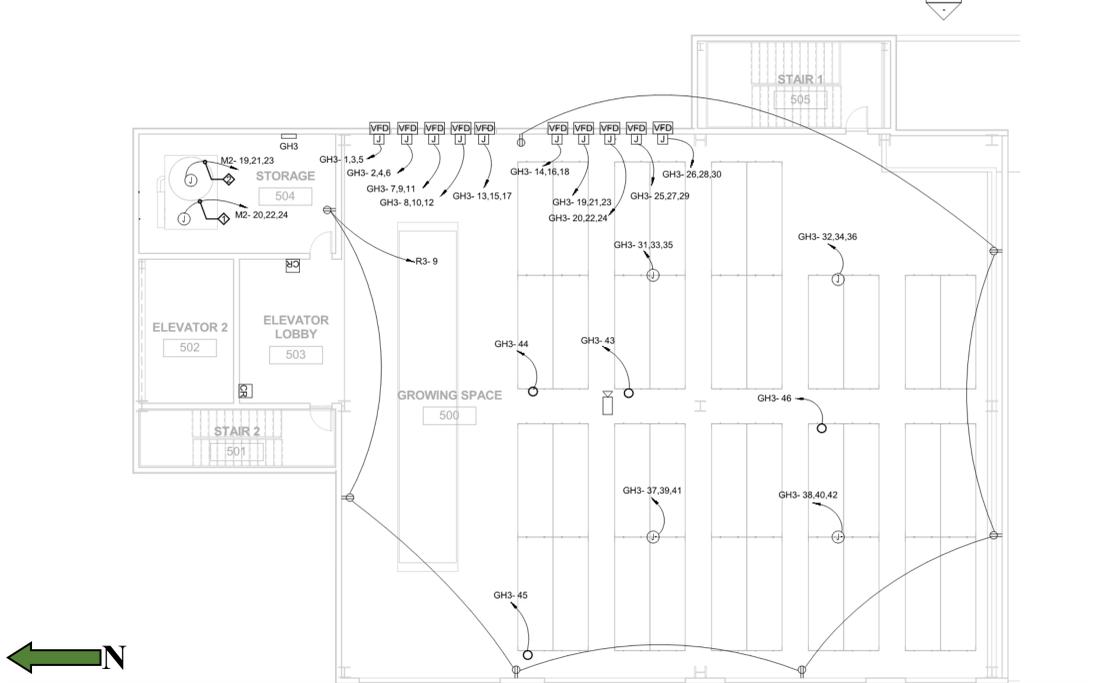
← N
Fourth Floor

Scale: 1/8" = 1'



← N
Third Floor

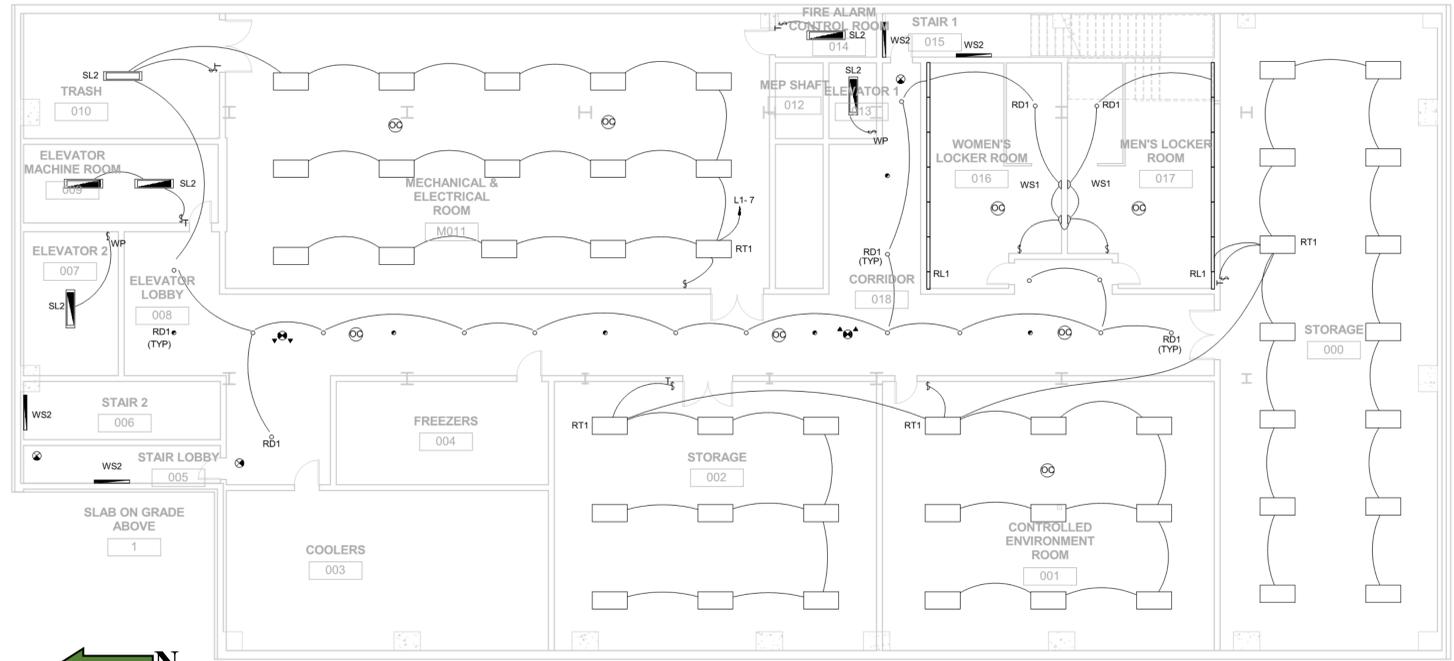
Scale: 1/8" = 1'



← N
Fifth Floor

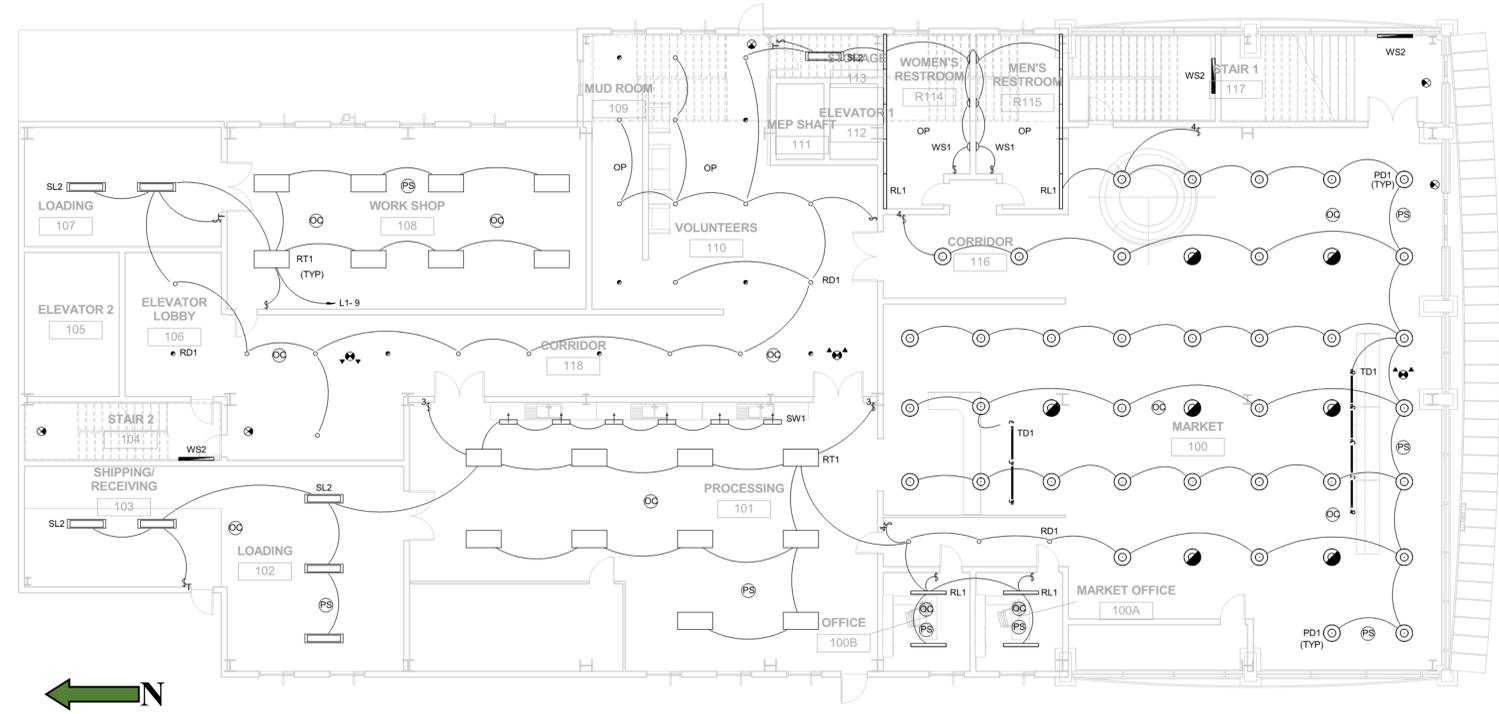
Scale: 1/8" = 1'

TBD ENGINEERING | LIGHTING PLAN



Basement

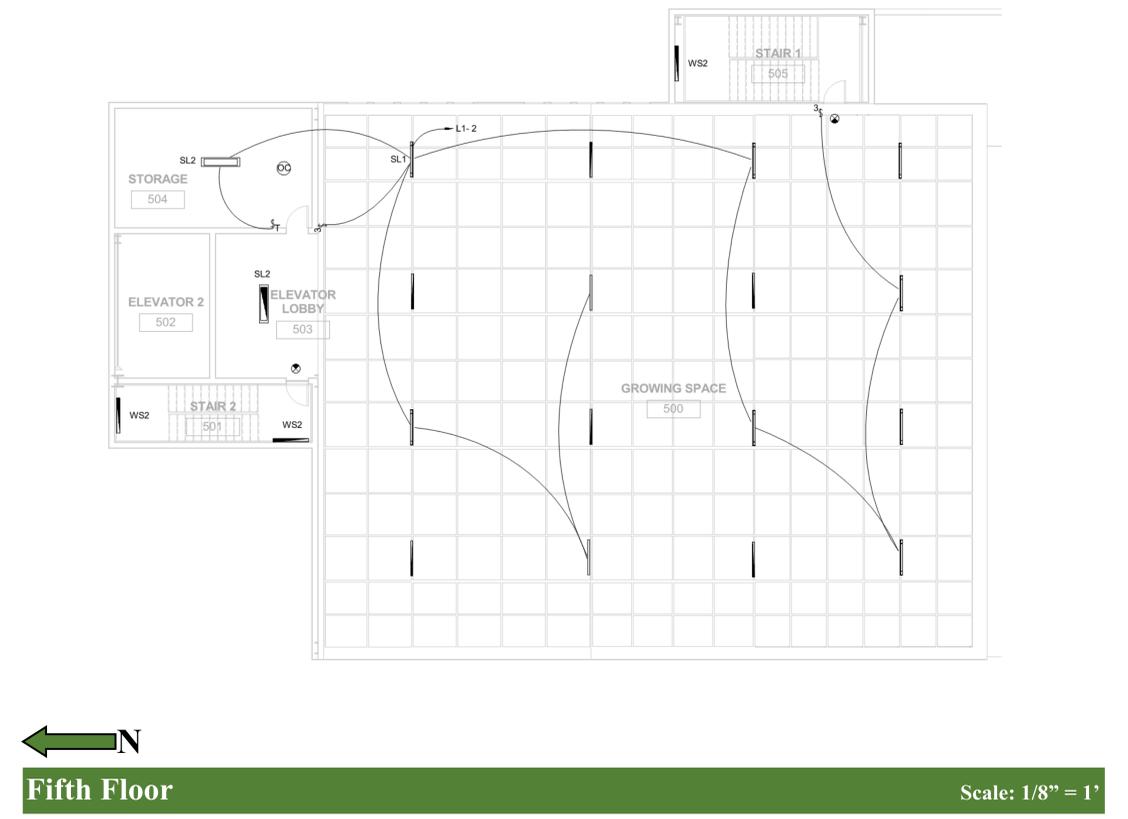
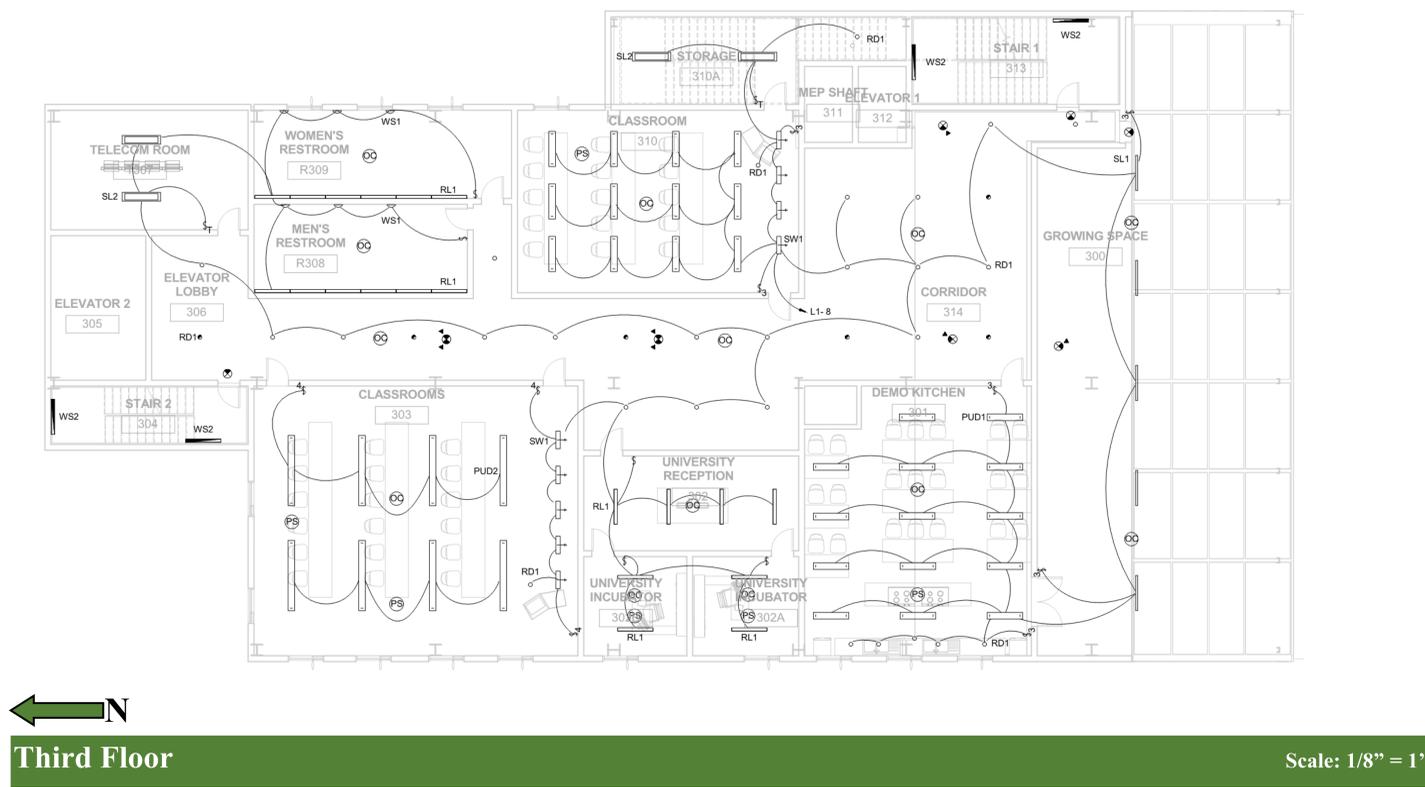
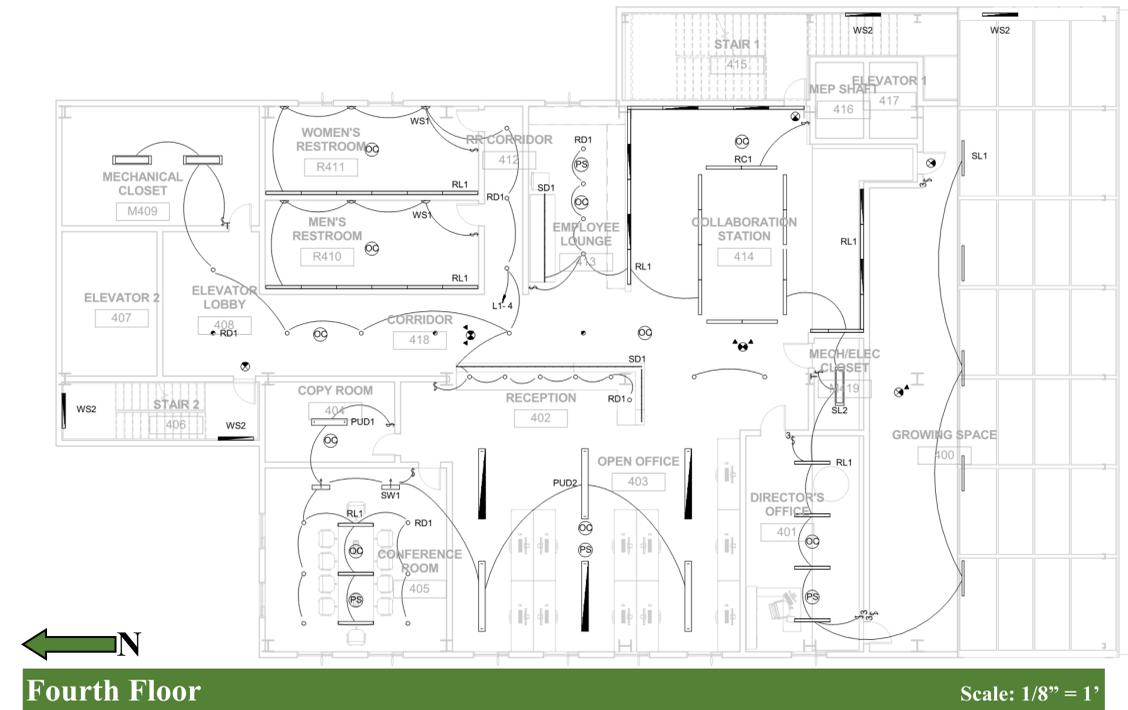
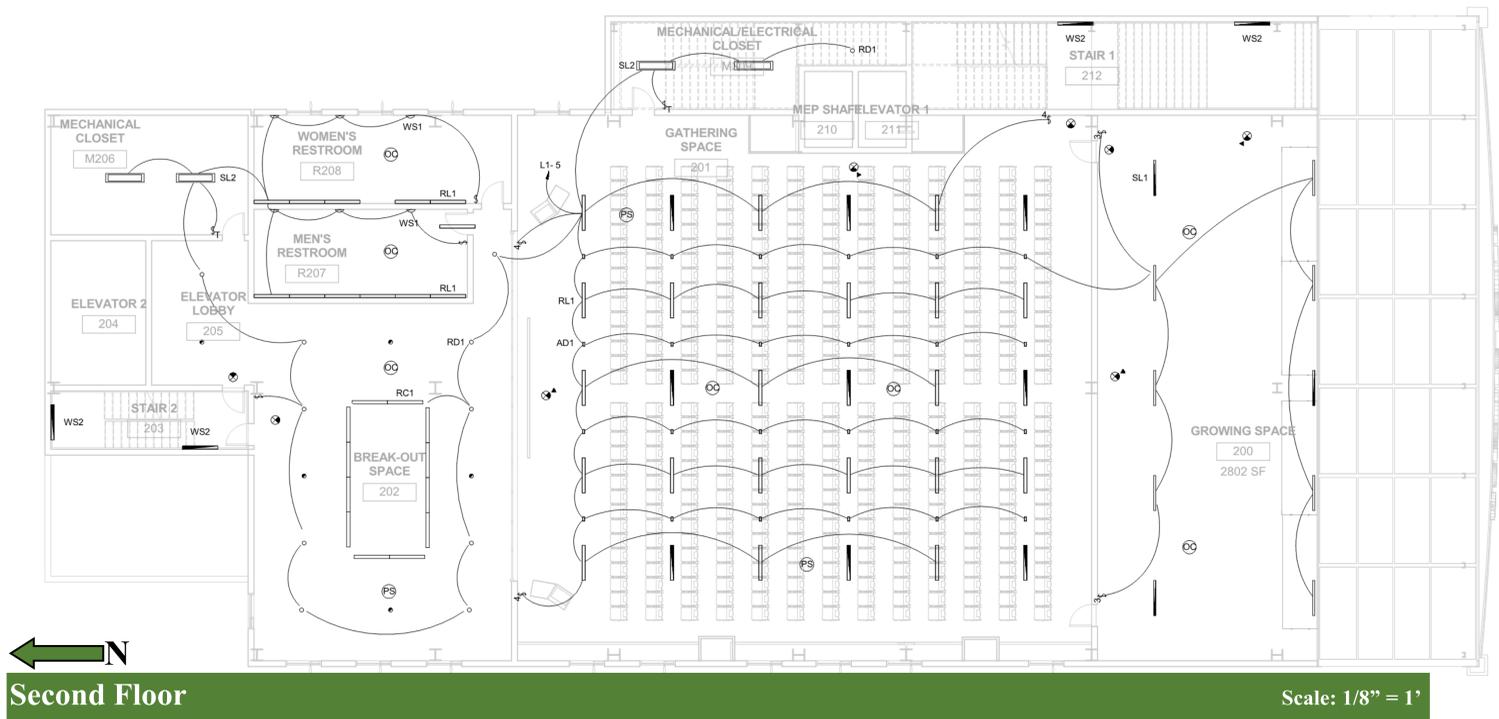
Scale: 1/8" = 1'



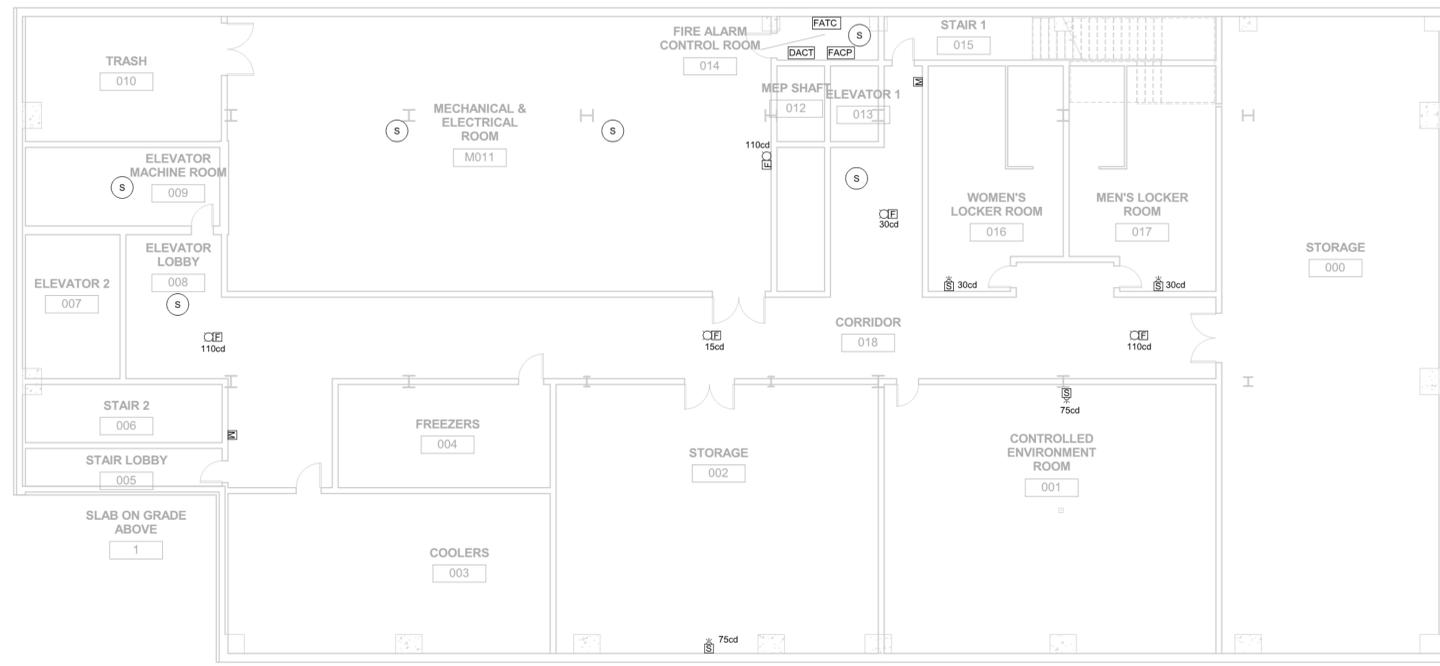
First Floor

Scale: 1/8" = 1'

TBD ENGINEERING | LIGHTING PLAN

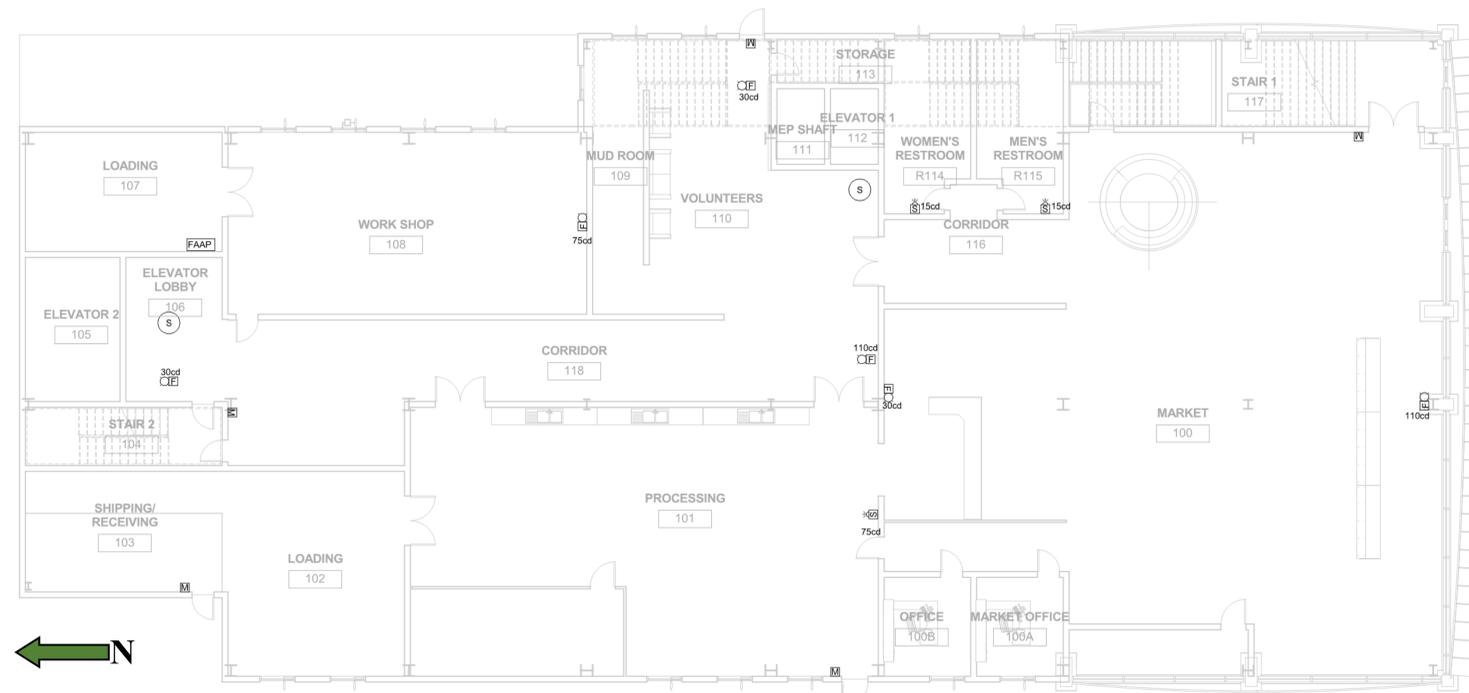


TBD ENGINEERING | FIRE ALARM PLAN



Basement

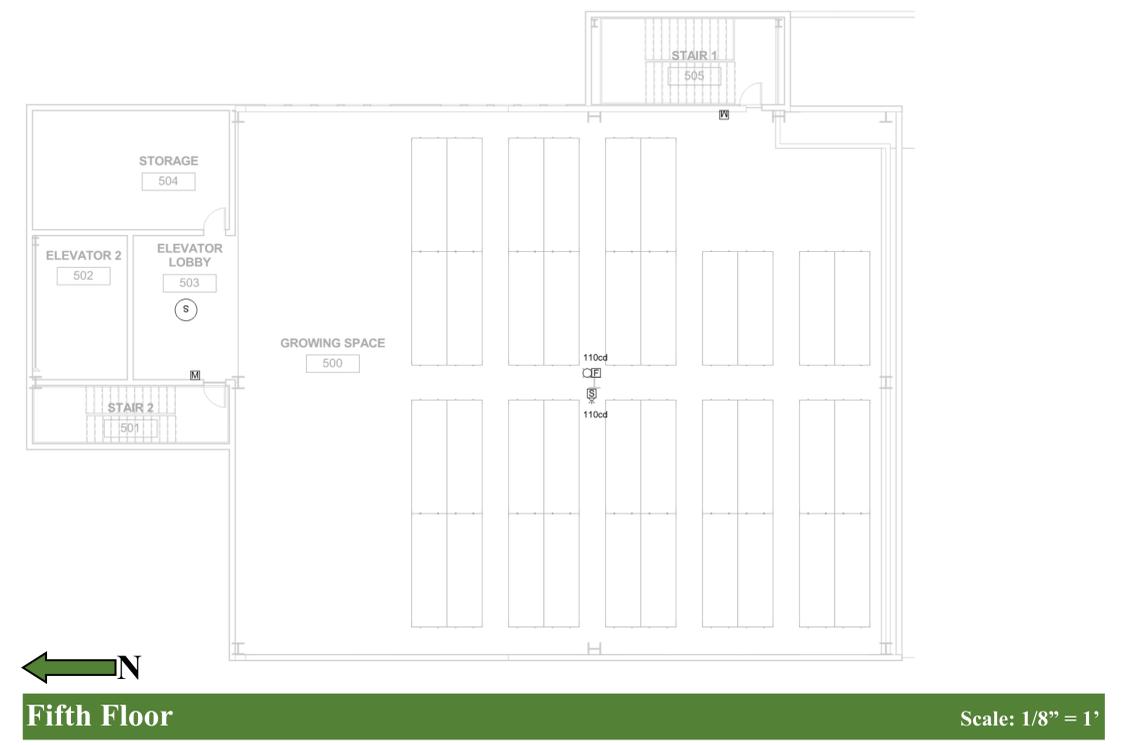
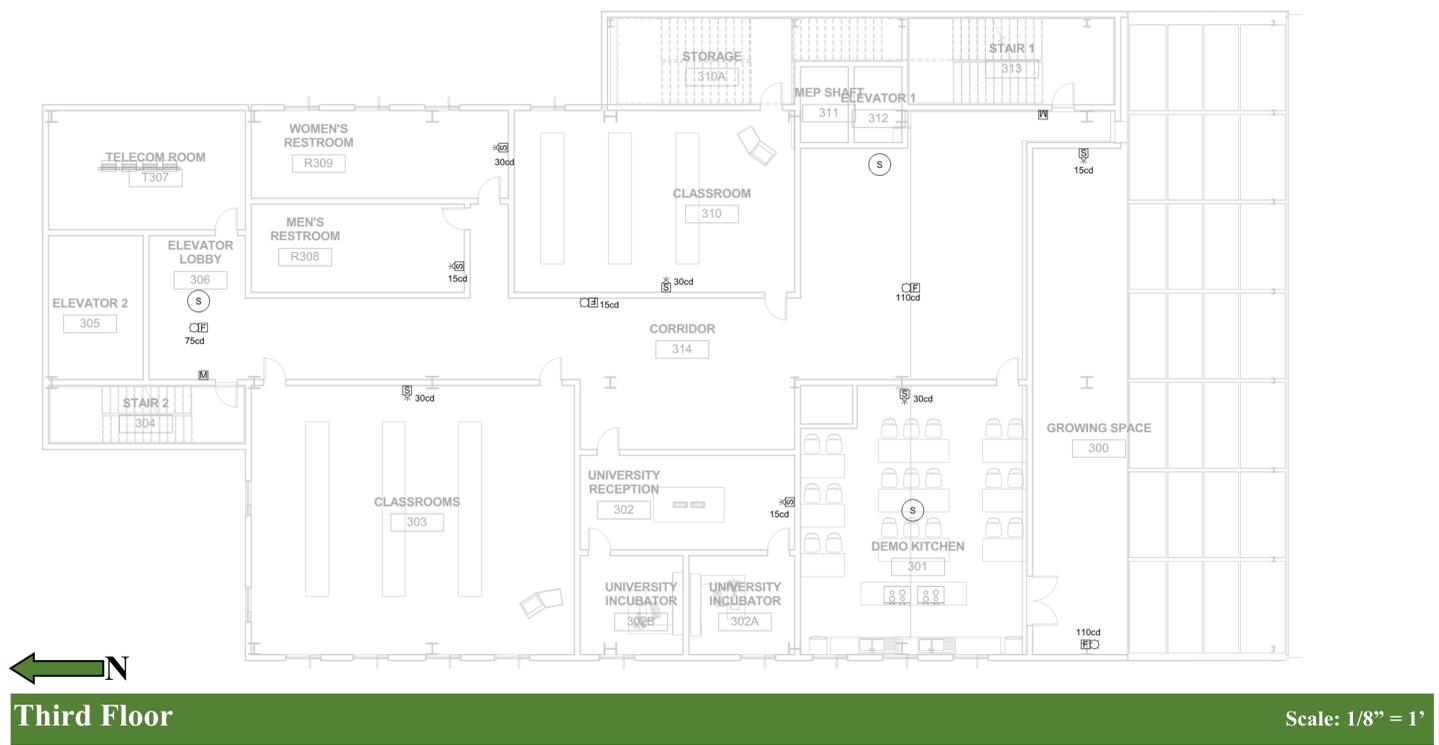
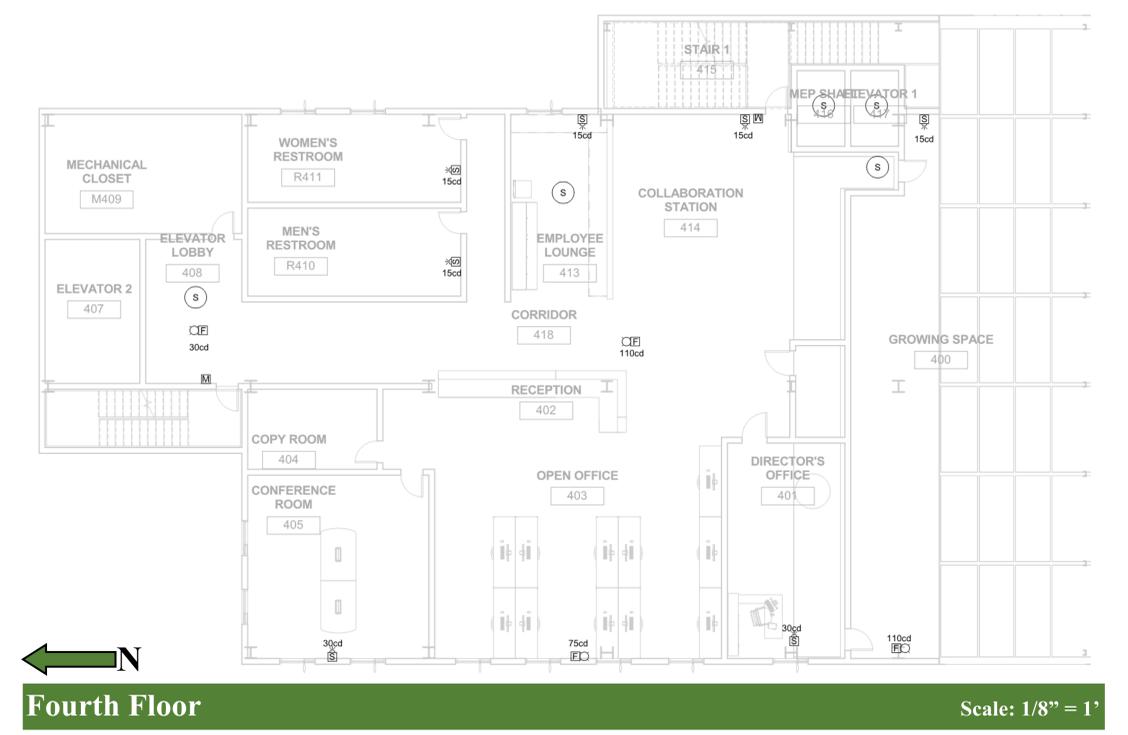
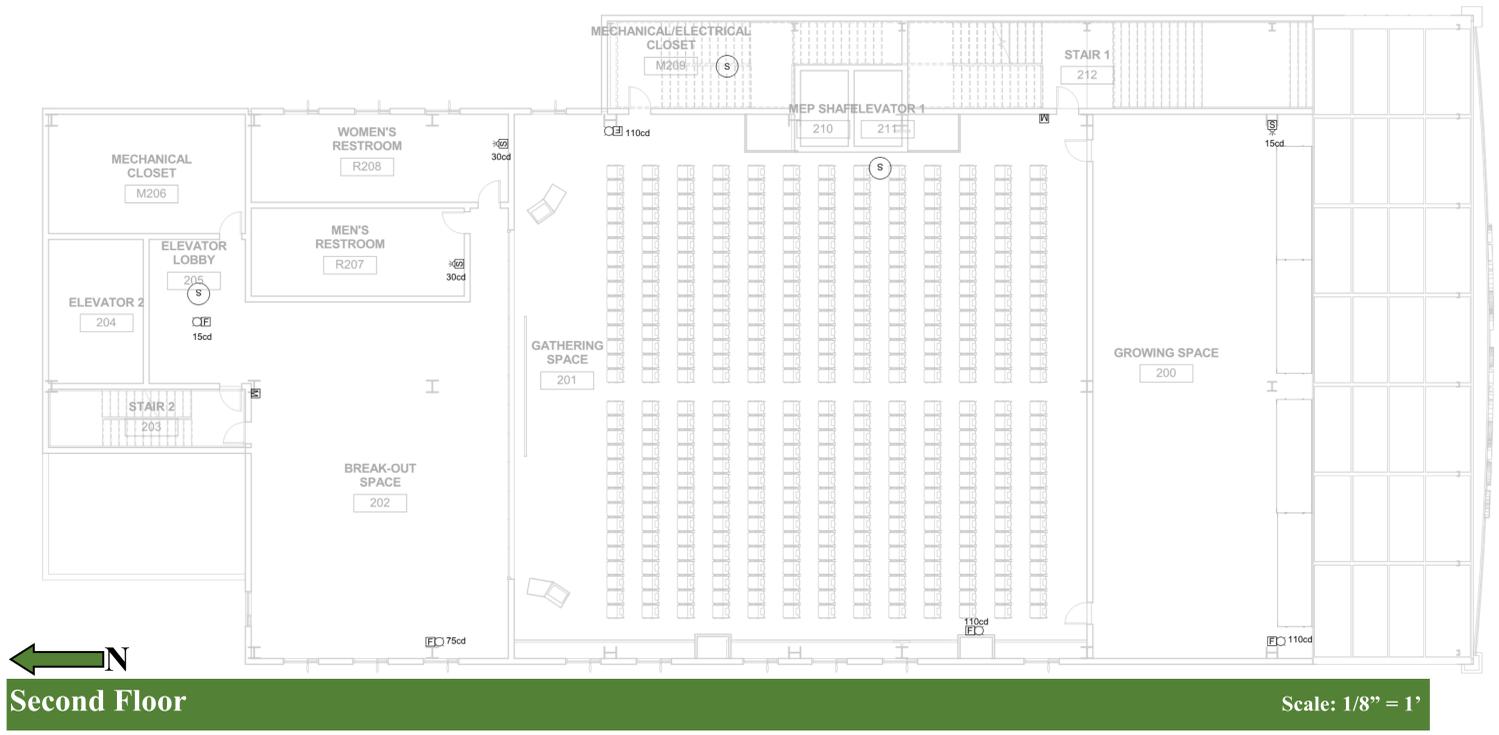
Scale: 1/8" = 1'



First Floor

Scale: 1/8" = 1'

TBD ENGINEERING | FIRE ALARM PLAN



TBD ENGINEERING | SCHEDULES

FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER MODEL	LAMP	WATTS	CCT	VOLTAGE	DIMMING	MOUNTING	COMMENTS
AD1	Recessed Adjustable 2 Light LED	Amerlux Hornet High Power, Recessed Trimless Multiple 2 Light LED	LED	18	4000K	277	Lutron Hi-Lume	Recessed	
PD1	Low Bay Pendant in Matte White	Spectrum Lighting, Inc. LED Aluminum EXT Mini-Bay	LED	55	4000	277	0-10V	Pendant	
PUD1	Linear 1x4 Direct/Indirect Pendant with Microgrow Lens	Focal Point Twelve	LED	36	4000K	277	Lutron A-Series Ecosystem	Provide 1' Chain	
PUD2	Linear 1x4 Direct/Indirect Pendant with Microgrow Lens	Focal Point Twelve	LED	72	4000K	277	Lutron A-Series Ecosystem	Provide 1' Chain	
RC1	Recessed Linear Cove	Elliptipar S301	LED	7W/F	4000K	277	Lutron A-Series	Recessed	4' sections
RD1	Recessed 4.5" Circular Downlight	Focal Point id 4.5"	LED	21	4000K	277	Lutron A-Series Ecosystem	Recessed	
RL1	Recessed 4" Linear Fixture	Focal Point Seem 4	LED	17	4000K	277	Lutron A-Series Ecosystem	Flush Recessed	4' sections
RT1	2'x4' Lensed Trouffler	Cooper Metalux 2GR LED	LED	38	4000K	277	0-10V DALI	Recessed	
SD1	LED Tape Light Strip	Tivoli TivoTape Indoor SB	LED	3w/ft	3500K	277	0-10V	Surface Mount	
SL1	4' Linear Strip Fixture with Clear Acrylic Lens	Lithonia FEM LED	LED	64	4100K	277	0-10V	Surface	Wet Location Rated
SL2	1'x4' Lensed Surface Mount	Cooper Corelite Divide	LED	32	4000K	277	Lutron	Surface	
SW1	Semi-Recessed Linear Wall Washer	Elliptipar S224	LED	25	4000K	277	Lutron A-Series	Semi-Recessed	
TD1	Track Fixture with Narrow Flood Distribution	Cooper Lighting Halo L805MED Stasis	LED	17	4000K	277	Lutron	Track	Provide Halo Power Trac
WS1	12" Curved Wall Sconce in Matte White	Cooper Lighting 662 Series	LED	16	4000K	277	Lutron	Wall	
WS2	Linear Wall Mount Direct/Indirect Fixture	Cooper Neo-Ray 23-DIW	LED	7	4000K	277	Lutron DALI	Wall	
X1	Pendant/Surface Mounted Exit Sign	Cooper Sure-Lites ES6	LED	N/A	N/A	277	N/A	Pendant/Surface	Provide Number of Faces and Directional Arrows as Indicated on Plans

Branch Panel: L1

Location: MECHANICAL EQUIPMENT ROOM 011
 Supply From: Switchboard Distribution
 Mounting: Surface
 Enclosure: Type 1

Volts: 480/277V
 Phases: 3
 Wires: 4

A.I.C. Rating: 65,000
 Mains Type: MCB
 Mains Rating: 225 A
 MCB Rating: 225 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	Freight Elevator Cab Lights	20	1	28 VA	176 VA			1	20	Fifth Floor Lighting	2
3	Passenger Elevator Cab Lights	20	1		28 VA	1952 VA		1	20	Fourth Floor Lighting	4
5	Second Floor Lighting	20	1			1781 VA	4160 VA	1	20	Grow Lights CER 001	6
7	Basement Lighting	20	1	2495 VA	2609 VA			1	20	Third Floor Lighting	8
9	First Floor Lighting	20	1		3826 VA	9422 VA		3	70	Passenger Elevator	10
11	Spare	1	1			0 VA	9422 VA	1			12
13	Spare	1	1	0 VA	9422 VA			1			14
15	Spare	1	1		14410...	0 VA		1		Spare	16
17	Spare	1	1			14410...	0 VA	1		Spare	18
19	Freight Elevator	100	3		14410...	0 VA		1		Spare	20
21	Spare	1	1	14410...	0 VA			1		Spare	22
23	Spare	1	1		0 VA	0 VA		1		Spare	24
25	Spare	1	1	0 VA	0 VA			1		Spare	26
27	Spare	0	1		0 VA	0 VA	0	1		Spare	28
29	Spare	1	1		0 VA	0 VA		1		Spare	30
31	Spare	1	1	0 VA	0 VA			1		Spare	32
33	Spare	1	1		0 VA	0 VA		1		Spare	34
35	Spare	1	1		0 VA	0 VA		1		Spare	36
37	Spare	1	1	0 VA	0 VA			1		Spare	38
39	Space	--	--		0 VA	0 VA		--		Space	40
41	Space	--	--			0 VA	0 VA	--		Space	42
Total Load:				29141 VA	29638 VA	29774 VA					
Total Amps:				105 A	107 A	108 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	17478 VA	100.00%	17478 VA	
Receptacle	0 VA	0.00%	0 VA	
Power	71498 VA	100.00%	71498 VA	Total Conn. Load: 89004 VA
Motor	28 VA	100.00%	28 VA	Total Est. Demand: 89004 VA
HVAC	0 VA	0.00%	0 VA	Total Conn.: 107 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 107 A

Notes: Provide 2#12, #12G, 3/4" C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: E1

Location: MECHANICAL EQUIPMENT ROOM 011
 Supply From: Switchboard Distribution
 Mounting: Surface

Volts: 480/277V
 Phases: 3
 Wires: 4

A.I.C. Rating: 65,000
 Mains Type: MLO
 Mains Rating: 100 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	Fifth Floor Emergency Lighting	20	1	181 VA	574 VA			1	20	First Floor Emergency Lighting	2
3	Third Floor Emergency Lighting	20	1		159 VA	411 VA		1	20	Fourth Floor Emergency Lighting	4
5	Basement Emergency Lighting	20	1			274 VA	276 VA	1	20	Second Floor Emergency Lighting	6
7	Spare	1	1	0 VA	0 VA			1		Spare	8
9	Spare	1	1		0 VA	0 VA		1		Spare	10
11	Spare	1	1			0 VA	0 VA	1		Spare	12
13	Spare	1	1	0 VA	0 VA			1		Spare	14
15	Spare	1	1		0 VA	0 VA		1		Spare	16
17	Spare	1	1			0 VA	0 VA	1		Spare	18
19	Spare	1	1	0 VA	0 VA			1		Spare	20
21	Spare	1	1		0 VA	0 VA		1		Spare	22
23	Spare	1	1			0 VA	0 VA	1		Spare	24
Total Load:				755 VA	570 VA	550 VA					
Total Amps:				3 A	2 A	2 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	2040 VA	100.00%	2040 VA	
Receptacle	0 VA	0.00%	0 VA	
Power	0 VA	0.00%	0 VA	Total Conn. Load: 2040 VA
Motor	0 VA	0.00%	0 VA	Total Est. Demand: 2040 VA
HVAC	0 VA	0.00%	0 VA	Total Conn.: 2 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 2 A

Notes: Provide 2#12, #12G, 3/4" C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: M1

Location: MECHANICAL EQUIPMENT ROOM 011
 Supply From: Switchboard Distribution
 Mounting: Surface
 Enclosure: Type 1

Volts: 480/277V
 Phases: 3
 Wires: 4

A.I.C. Rating: 65,000
 Mains Type: MCB
 Mains Rating: 400 A
 MCB Rating: 400 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	WSHP Distribution Pump	100	3	14410...	3880 VA			3	30	Hot Water Distribution Pump	2
3				14410...	3880 VA						4
5						14410...	3880 VA				6
7				2106 VA	2106 VA						8
9	Rain Water Pump	20	3		2106 VA	2106 VA		3	20	Rain Water Pump	10
11					2106 VA	2106 VA					12
13				1690 VA	1690 VA						14
15	WSHP Size 26	20	3		1690 VA	1690 VA		3	20	WSHP Size 26	16
17					1690 VA	1690 VA					18
19				1690 VA	4268 VA						20
21	WSHP Size 26	20	3		1690 VA	4268 VA		3	25	WSHP Size 72	22
23					1690 VA	4268 VA					24
25				4268 VA	1690 VA						26
27	WSHP Size 72	25	3		4268 VA	1690 VA		3	20	WSHP Size 26	28
29					4268 VA	1690 VA					30
31				1690 VA	14410...						32
33	WSHP Size 26	20	3		1690 VA	14410...		3	100	Anaerobic Grinder	34
35					1690 VA	14410...					36
37	Spare	1	1	0 VA	0 VA			1		Spare	38
39	Spare	1	1		0 VA	0 VA		1		Spare	40
41	Spare	1	1			0 VA	0 VA	1		Spare	42
Total Load:				53899 VA	53899 VA	53899 VA					
Total Amps:				195 A	195 A	195 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	0 VA	0.00%	0 VA	
Receptacle	0 VA	0.00%	0 VA	
Power	0 VA	0.00%	0 VA	Total Conn. Load: 161698 VA
Motor	161698 VA	100.00%	161698 VA	Total Est. Demand: 161698 VA
HVAC	0 VA	0.00%	0 VA	Total Conn.: 194 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 194 A

Notes: Provide 2#12, #12G, 3/4" C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: M2

Location: STORAGE 209
 Supply From: Switchboard Distribution
 Mounting: Surface
 Enclosure: Type 1

Volts: 480/277V
 Phases: 3
 Wires: 4

A.I.C. Rating: 65,000
 Mains Type: MCB
 Mains Rating: 225 A
 MCB Rating: 225 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1				3298 VA	1690 VA						2
3	WSHP Size 49	20	3		3298 VA	1690 VA		3	20	WSHP Size 44	4
5						3298 VA	1690 VA				6
7				3907 VA	3907 VA						8
9	WSHP Size 64	20	3		3907 VA	3907 VA		3	20	WSHP Size 64	10
11					3907 VA	3907 VA					12
13				3907 VA	4268 VA						14
15	WSHP Size 64	20	3		3907 VA	4268 VA		3	25	WSHP Size 72	16
17					3907 VA	4268 VA					18
19				5820 VA	2106 VA						20
21	Cooling Tower Fan	40	3		5820 VA	2106 VA		3	20	Cooling Tower Evaporative Cooler Pump	22
23					5820 VA	2106 VA					24
25	Spare	1	1	0 VA	0 VA			1		Spare	26
27	Spare	1	1		0 VA	0 VA		1		Spare	28
29	Spare	1	1		0 VA	0 VA		1		Spare	30
31	Spare	1	1	0 VA	0 VA			1		Spare	32
33	Spare	1	1		0 VA	0 VA		1		Spare	34
35	Spare	1	1		0 VA	0 VA		1		Spare	36
37	Spare	1	1	0 VA	0 VA			1		Spare	38
39	Space	--	--		0 VA	0 VA		--		Space	40
41	Space	--	--			0 VA	0 VA	--		Space	42
Total Load:				28903 VA	28903 VA	28903 VA					
Total Amps:				104 A	104 A	104 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	0 VA	0.00%	0 VA	
Receptacle	0 VA	0.00%	0 VA	
Power	0 VA	0.00%	0 VA	Total Conn. Load: 86710 VA
Motor	86710 VA	100.00%	86710 VA	Total Est. Demand: 86710 VA
HVAC	0 VA	0.00%	0 VA	Total Conn.: 104 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 104 A

Notes: Provide 2#12, #12G, 3/4" C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: DP1

Location: MECHANICAL EQUIPMENT ROOM 011
 Supply From: 112.5kVA Transformer
 Mounting: Surface
 Enclosure: Type 1

Volts: 208/120V

Branch Panel: R1
 Location: MECHANICAL EQUIPMENT ROOM 011
 Supply From: DP1
 Mounting: Surface
 Enclosure: Type 1

Volts: 208/120V
 Phases: 3
 Wires: 4

A.I.C. Rating: 10,000
 Mains Type: MCB
 Mains Rating: 125 A
 MCB Rating: 125 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	Receptacles Passenger Elevator Pit	20	1	180 VA	360 VA				Receptacle Women's 016	2	
3	Receptacles Freight Elevator Mach Room	20	1	540 VA	250 VA				Cooler Lights and Heater Basement	4	
5	Receptacle Men's R115	20	1	540 VA	800 VA				Receptacle 118 & 109	6	
7	Receptacles 102,103,107	20	1	250 VA	360 VA				Computers Office 100A&B	8	
9	Cooler Lights and Heater Basement	20	1	250 VA	360 VA				Receptacles Men's 017	10	
11	Receptacles Rooms 000 & 001	20	1			900 VA	1200 VA		Boiler	12	
13	Receptacles Market 100	20	1	1440 VA	360 VA				Receptacles Freight Elevator Pit	14	
15	Receptacles Offices 100A&B	20	1		720 VA	1260 VA			Receptacles 018 & M011	16	
17	Receptacles Women's R114	20	1		360 VA	720 VA			Receptacles Rm 001 & 002	18	
19	Receptacle Work Shop 108	20	1	720 VA	1260 VA				Receptacle Processing 101	20	
21	Cooler Lights and Heater First Floor	20	1	250 VA	1536 VA				Aerobic Digester Motor	22	
23	Receptacles Market 100	20	1	1260 VA	250 VA				Freezer Lights and Heater Basement	24	
25	Cooler Lights and Heater First Floor	20	1	250 VA	1536 VA				Aerobic Digester Motor	26	
27	Aerobic Digester Motor	20	1		1536 VA				Aerobic Digester Motor	28	
29	Aerobic Digester Motor	20	1		1536 VA	1536 VA			Aerobic Digester Motor	30	
31	Aerobic Digester Motor	20	1	1536 VA	50 VA				Cooler Evaporator Basement	32	
33	Cooler Evaporator Basement	2		50 VA	50 VA				Cooler Evaporator Basement	34	
35	Cooler Evaporator Basement	2		50 VA	50 VA				Cooler Evaporator Basement	36	
37	Cooler Evaporator First Floor	2		50 VA	50 VA				Cooler Evaporator First Floor	38	
39	Cooler Evaporator First Floor	2		50 VA	50 VA				Cooler Evaporator First Floor	40	
41	Spare	1				0 VA	50 VA		Cooler Evaporator First Floor	42	
Total Load:				9132 VA	6902 VA	9172 VA					
Total Amps:				79 A	58 A	79 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	0 VA	0.00%	0 VA	
Receptacle	13040 VA	88.34%	11520 VA	
Power	1700 VA	100.00%	1700 VA	Total Conn. Load: 25296 VA
Motor	10466 VA	100.00%	10466 VA	Total Est. Demand: 23686 VA
HVAC	0 VA	0.00%	0 VA	Total Conn.: 70 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 66 A

Notes: Provide 2#12, #12G, 3/4#C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: R2
 Location: STORAGE 209
 Supply From: DP1
 Mounting: Surface
 Enclosure: Type 1

Volts: 208/120V
 Phases: 3
 Wires: 4

A.I.C. Rating: 10,000
 Mains Type: MCB
 Mains Rating: 125 A
 MCB Rating: 125 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	Rack Receptacle T307	20	1	180 VA	540 VA				Receptacles Growing Space 200	2	
3	Receptacle Demo Kitchen 301	20	1	180 VA	360 VA				Receptacle Men's R308	4	
5	Receptacle Demo Kitchen 301	20	1			360 VA	1300 VA		Receptacle Demo Kitchen 301	6	
7	Receptacles Growing Space 300	20	1	540 VA	800 VA				Computers University Incubators 302A&B	8	
9	Receptacle Classroom 310	20	1		720 VA	2250 VA			Range Demo Kitchen 301	10	
11	Receptacle Demo Kitchen 301	20	1			1400 VA	2250 VA			12	
13	Receptacles Comdor 314	20	1	900 VA	2250 VA				Range Demo Kitchen 301	14	
15	Projector Classroom 310	20	1		800 VA	2250 VA				16	
17	Receptacles Women's R208	20	1	180 VA	360 VA				Receptacles Women's R309	18	
19	Rack Receptacle T307	30	1	180 VA	360 VA				Receptacle Men's R207	20	
21	Receptacles Gathering Space 201	20	1		1080 VA	0 VA			Spare	22	
23	Receptacles Breakout 202 & M206	20	1		720 VA	800 VA			Projector Gathering Space 201	24	
25	Receptacle Classroom 303	20	1	720 VA	800 VA				Projector Classroom 303	26	
27	Spare	1			0 VA	3243 VA				28	
29	Receptacles T307	30	1		1080 VA	3243 VA			DOAS M206	30	
31	Receptacle University Spaces 302, 302A&B	20	1	1080 VA	3243 VA					32	
33	Spare	1			0 VA	0 VA				34	
35	Spare	1			0 VA	0 VA				36	
37	Spare	1		0 VA	0 VA					38	
39	Spare	1		0 VA	0 VA					40	
41	Space	1			0 VA	0 VA				42	
Total Load:				11593 VA	10883 VA	11693 VA					
Total Amps:				98 A	91 A	98 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	0 VA	0.00%	0 VA	
Receptacle	24440 VA	70.46%	17220 VA	
Power	0 VA	0.00%	0 VA	Total Conn. Load: 34170 VA
Motor	0 VA	0.00%	0 VA	Total Est. Demand: 28960 VA
HVAC	9730 VA	100.00%	9730 VA	Total Conn.: 95 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 75 A

Notes: Provide 2#12, #12G, 3/4#C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: R3
 Location: MECH/ELEC CLOSET 419
 Supply From: DP1
 Mounting: Surface
 Enclosure: Type 1

Volts: 208/120V
 Phases: 3
 Wires: 4

A.I.C. Rating: 10,000
 Mains Type: MCB
 Mains Rating: 125 A
 MCB Rating: 125 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	Receptacle Men's R410	20	1	360 VA	400 VA				Computer Director's Office 401	2	
3	Floor Boxes Reception 402 & Collab 414	20	1		1080 VA	1200 VA			Coffee Maker Employee Lounge 413	4	
5	Receptacle Women's R411	20	1		360 VA	1500 VA			Copier Copy Room 404	6	
7	Microwave Employee Lounge 413	20	1	1300 VA	1500 VA				Copier Copy Room 404	8	
9	Receptacles Growing Space 500	20	1		1260 VA	540 VA			Receptacles Corridor 418 & M409	10	
11	Receptacle Employee Lounge 413	20	1			1800 VA	540 VA		Receptacles Growing Space 400	12	
13	Receptacles Copy Room 404	20	1	540 VA	600 VA				Printer Copy Room 404	14	
15	Printer Copy Room 404	20	1		600 VA	720 VA			Floor Boxes Conference Room 405	16	
17	TV Conference Room 405	20	1			600 VA	720 VA		Systems Furniture Open Office 403	18	
19	Systems Furniture Open Office 403	20	1	720 VA	720 VA				Systems Furniture Open Office 403	20	
21	Systems Furniture Open Office 403	20	1		720 VA	960 VA			Systems Furniture Open Office 403	22	
23	Systems Furniture Open Office 403	20	1		720 VA	720 VA			Systems Furniture Open Office 403	24	
25	Systems Furniture Open Office 403	20	1	720 VA	720 VA				Systems Furniture Open Office 403	26	
27	Systems Furniture Open Office 403	20	1		960 VA	720 VA			Systems Furniture Open Office 403	28	
29	Receptacles Director's Office 401	20	1			720 VA	960 VA		Systems Furniture Open Office 403	30	
31	Receptacles Employee Lounge 413	20	1	720 VA	3243 VA					32	
33	Receptacle DEMO KITCHEN 72	1			1800 VA	3243 VA			DOAS M409	34	
35	Receptacle DEMO KITCHEN 72	1			1800 VA	3243 VA				36	
37	Spare	1		0 VA	0 VA					38	
39	Spare	1		0 VA	0 VA					40	
41	Spare	1			0 VA	0 VA				42	
Total Load:				11543 VA	13803 VA	13683 VA					
Total Amps:				96 A	118 A	117 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	0 VA	0.00%	0 VA	
Receptacle	29300 VA	67.06%	19650 VA	
Power	0 VA	0.00%	0 VA	Total Conn. Load: 39030 VA
Motor	0 VA	0.00%	0 VA	Total Est. Demand: 29380 VA
HVAC	9730 VA	100.00%	9730 VA	Total Conn.: 108 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 82 A

Notes: Provide 2#12, #12G, 3/4#C for all branch circuits unless otherwise noted on floor plan.

Branch Panel: GH1
 Location: STORAGE 209
 Supply From: Switchboard Distribution
 Mounting: Surface
 Enclosure: Type 1

Volts: 480/277V
 Phases: 3
 Wires: 4

A.I.C. Rating: 65,000
 Mains Type: MCB
 Mains Rating: 100 A
 MCB Rating: 100 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt	
1	Grow Lights Growing Space 200	20	1	3120 VA	3120 VA				Grow Lights Growing Space 200	2	
3	Grow Lights Growing Space 300	20	1		3640 VA	582 VA				4	
5	Grow Lights Growing Space 300	20	1			4160 VA	582 VA		Fans Growing Space 200	6	
7	Grow Lights Growing Space 300	20	1	582 VA	582 VA					8	
9	Fans Growing Space 200	20	3	582 VA	582 VA					10	
11	Fans Growing Space 200	20	3	582 VA	582 VA					12	
13	Fans Growing Space 200	20	3	582 VA	582 VA					14	
15	Fans Growing Space 200	20	3	582 VA	582 VA					16	
17	Fans Growing Space 200	20	3	582 VA	582 VA					18	
19	Motor	0 VA	0 VA		10466 VA				Total Est. Demand: 23686 VA	20	
21	Fans Growing Space 300	20	3	582 VA	582 VA				Total Conn.: 70 A	22	
23	Fans Growing Space 300	20	3	582 VA	582 VA				Total Est. Demand: 66 A	24	
25	Fans Growing Space 300	20	3	582 VA	582 VA					26	
27	Fans Growing Space 300	20	3	582 VA	582 VA					28	
29	Fans Growing Space 300	20	3	582 VA	582 VA					30	
31	Fans Growing Space 300	20	3	582 VA	582 VA					32	
33	Fans Growing Space 300	20	3	582 VA	582 VA					34	
35	Fans Growing Space 300	20	3	582 VA	582 VA					36	
37	Pump Growing Space 200	20	3	582 VA	582 VA					38	
39	Pump Growing Space 200	20	3	582 VA	582 VA					40	
41	Pump Growing Space 200	20	3	582 VA	582 VA					42	
43	Pump Growing Space 200	20	3	582 VA	582 VA					44	
45	Pump Growing Space 200	20	3	582 VA	0 VA				Spare	46	
47	Spare	1		0 VA	0 VA				Spare	48	
49	Spare	1		0 VA	0 VA				Spare	50	
51	Spare	1		0 VA	0 VA				Spare	52	
53	Spare	1		0 VA	0 VA				Spare	54	
55	Spare	1		0 VA	0 VA				Spare	56	
57	Space	1		0 VA	0 VA				Spare	58	
59	Space	1		0 VA	0 VA				Spare	60	
Total Load:				14383 VA	11783 VA	12303 VA					
Total Amps:				52 A	43 A	45 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals
Lighting	14040 VA	100.00%	14040 VA	
Receptacle	0 VA	0.00%	0 VA	
Power	0 VA	0.00%	0 VA	Total Conn. Load: 38470 VA
Motor	24430 VA	100.00%	24430 VA	Total Est. Demand: 38470 VA
HVAC	0 VA	0.00%	0 VA	Total Conn.: 48 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 48 A

Notes: Provide 2#12, #12G, 3/4#C for all branch circuits unless otherwise noted on floor plan. For all pumps & fans, provide 3#12, #12G, 3/4#C.

Branch Panel: GH2
 Location: MECH/ELEC CLOSET 419
 Supply From: Switchboard Distribution
 Mounting: Surface
 Enclosure: Type 1

Volts: 480/277V
 Phases: 3
 Wires: 4

A.I.C. Rating: 65,000
 Mains Type: MCB
 Mains Rating: 100 A
 MCB Rating: 100 A

Ckt	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Ckt
1	Pump Growing Space 300	20	3	582 VA	582 VA				Pump Growing Space 300	2
3	Pump Growing Space 300	20	3	582 VA	582 VA					4
5	Pump Growing Space 300	20	3	582 VA	582 VA					6
7	Pump Growing Space 300	20	3	582 VA	582 VA					8
9	Pump Growing Space 300	20	3	582 VA	582 VA					10
11	Pump Growing Space 300	20	3	582 VA	582 VA					12
13	Fans Growing Space 400	20	3	582 VA	582 VA					14
15	Fans Growing Space 400	20	3	582 VA	582 VA					16
17	Fans Growing Space 400	20	3	582 VA	582 VA					18
19	Motor	0 VA	0 VA		19195 VA				Total Est. Demand: 22315 VA	20
21	Fans Growing Space 400	20	3	582 VA	582 VA				Total Conn.: 70 A	22
23	Fans Growing Space 400	20	3	582 VA	582 VA				Total Est. Demand: 66 A	24
25	Fans Growing Space 400	20	3	582 VA	582 VA					26
27	Fans Growing Space 400	20	3	582 VA	582 VA					28
29	Fans Growing Space 400	20	3	582 VA	582 VA					30
31	Pump Growing Space 400	20	3	582 VA	3120 VA				Grow Lights Growing Space 400	32</

