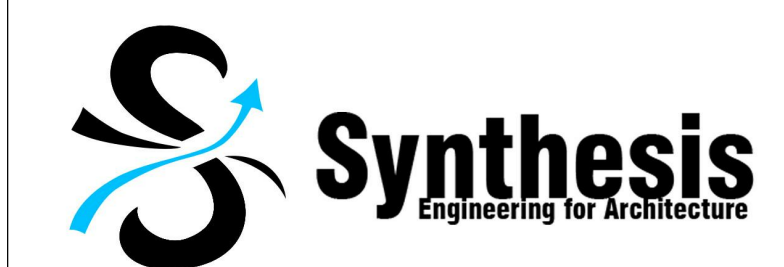


Lighting Fixture Schedule

Type	Count	Description	Lamp	Wattage	Manufacturer	Model	CCT	Efficacy	Voltage	Control	Lamp Life	DLC QPL	EnergyStar
G1	251	EACH- Lumigrow Lighting	LED	325 W	LumiGrow	LumiGrow Pro 325 HV	6500 K	-	277 V	SmartPAR	-		
S1A	129	EACH- Recessed LED Downlight	LED	25 W	Juno Lighting	SDSQ4-30401-D SAWSQ4-SASF-PF	4000 K	81.6 lm/W	120 V	DALI	50,000 hrs (L70)	N	Y
S1B	1	EACH- Recessed LED Accent Downlight	LED	17 W	Juno Lighting	SDSQ4-30401-D SAWSQ4-SASF-PF	4000 K	81.6 lm/W	120 V	DALI	50,000 hrs (L70)	N	Y
S2	11	EACH- Pendant LED. Frosted Lens	LED	10 W	Lightolier	PM01L40SA1-PA01-SK01	4000 K	69.0 lm/W	120 V	DALI	50,000 hrs (L70)	N	N
S3	12	PER 4'- Linear Indirect/Direct LED Pendant	LED	30 W	Peerless	7CRM7-LO-4FT-4'-120-EZAB-1SE-SCT-LP840-F1/24-C210-	4000 K	105.0 lm/W	120 V	DALI	50,000 hrs (L70)	N	N
S3A	124	PER 4'- Linear Indirect/Direct LED Pendant	LED	30 W	Peerless	7CRM7-LO-4FT-8'-120-EZAB-1SE-SCT-LP840-F1/24-C210-	4000 K	105.0 lm/W	120 V	DALI	50,000 hrs (L70)	N	N
S7	71	EACH- PER 4'- 2" LED Perimeter wall slot	LED	24 W	Mark Architectural Lighting	SL2-2FT-GB-12-40-HI-120-HT-ECO	4000 K	70.0 lm/W	120 V	0-10V	50,000 hrs (L70)	N	N
S7A	4	EACH- PER 2'- 2" LED Perimeter wall slot	LED	12 W	Mark Architectural Lighting	SL2-2FT-GB-12-40-HI-120-HT-ECO	4000 K	70.0 lm/W	120 V	0-10V	50,000 hrs (L70)	N	N
S9	13	EACH- 2X2 BREEZ 2400 lumens 4000K	LED	24 W	Acuity Brands Lighting	2BZL2-24L-120V-EZAB-LP840-EZAB	4000 K	105.0 lm/W	120 V	DALI	50,000 hrs (L70)	Y	N
S10	16	EACH- Low bay food processing LED	LED	32 W	Precision Paragon	VTL-LW-DM-UL-40K-DH-WL-C8-EB	4000 K	103.0 lm/W	120 V	DALI	60,000 hrs (L80)	Y	N
S11	13	EACH- Indirect stairwell light	LED	20 W	Peerless	SQW1-LO-4FT-R4-120-EZB-1SE-SCT-LP840-CO320SCEP	4000 K	94.0 lm/W	120 V	DALI	50,000 hrs (L70)	N	N
S12	38	EACH- Supermarket Track Lighting	LED	17 W	Amerlux	CNTRV33-18-LED-E-WT-TEK-120-FL-4000-DIM-ELV	4000 K	68.5 lm/W	120 V	ELV	50,000 hrs (L70)	N	Y
S12A	11	EACH- Supermarket Lighting	LED	17 W	Amerlux	CNTRV33-18-LED-E-WT-TEK-120-WFL-4000-DIM-ELV	4000 K	68.5 lm/W	120 V	0-10V	50,000 hrs (L70)	N	Y
S13	13	EACH- Supermarket linear downlight	LED	16 W	Amerlux	PROD - BAT80 - ASW5 - 10 - LED - HW - 4-4' - 120/277 - IND - 4000 - LVR	4000 K	77.1 lm/W	120 V	DALI	50,000 hrs (L70)	N	N
S14	14	PER LF- Linear Tape LED	LED	1 W	Jesco	DL-Flex-UP	4000 K	92.0 lm/W	120 V	0-10V	50,000 hrs (L70)	N	N
S14A	11	PER LF- Linear Tape LED	LED	1 W	Jesco	DL-Flex-UP	4000 K	92.0 lm/W	120 V	0-10V	50,000 hrs (L70)	N	N
S15	44	EACH- Low bay LED suspended fixture	LED	37 W	Lithonia Lighting	MSL-4000LM-SBL-120-Gz-EZAB-40K-90CRI-PLR1G-CS1W-LCOZU-WH	4000 K	108.0 lm/W	120 V	DALI	90,000 hrs (L70)	N	N
S16	7	PER 4'- LED cove strip light	LED	24 W	Lithonia Lighting	MNSL MV M6 - 753573954537 - LED Dry Location Striplight - 2100 - 24 - 120-277 - 4000K,88CRI - 504 - 1	4000 K	87.5 lm/W	120 V	0-10V	60,000 hrs (L80)	N	N
S17	10	EACH- Recessed LED asymmetric wall wash	LED	20 W	Finelite	HPW-LED-4'-OPEN-4000-120V-SC-C1-1	4000 K	148.5 lm/W	120 V	0-10V	50,000 hrs (L70)	N	N

Symbol Legend

Occupancy Sensor	Switchboard	Mechanical Pump	Photosensor	3 Way Wall Switch	DALI Wall Switch	Dimming Wall Switch	Ground Fault Circuit Interruption Receptacle	Quadruplex Wall Mount Receptacle	Duplex Floor Mount Receptacle	Quadruplex Floor Mount Receptacle	Ethernet Jack	Telephone and Data Jack	Wireless Access Point



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Schedules

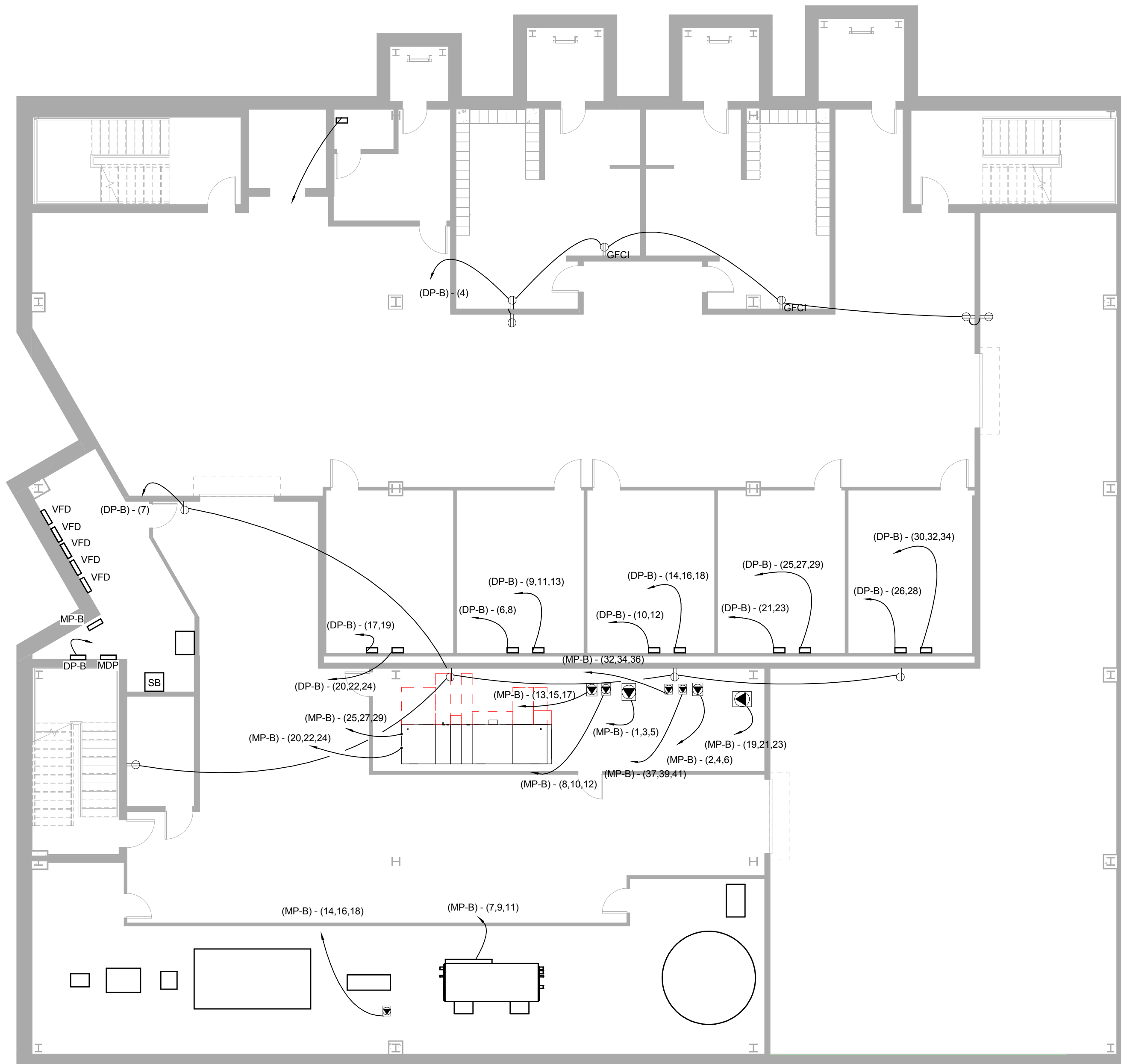
Team Number 09-2015

Date 2-11-2015

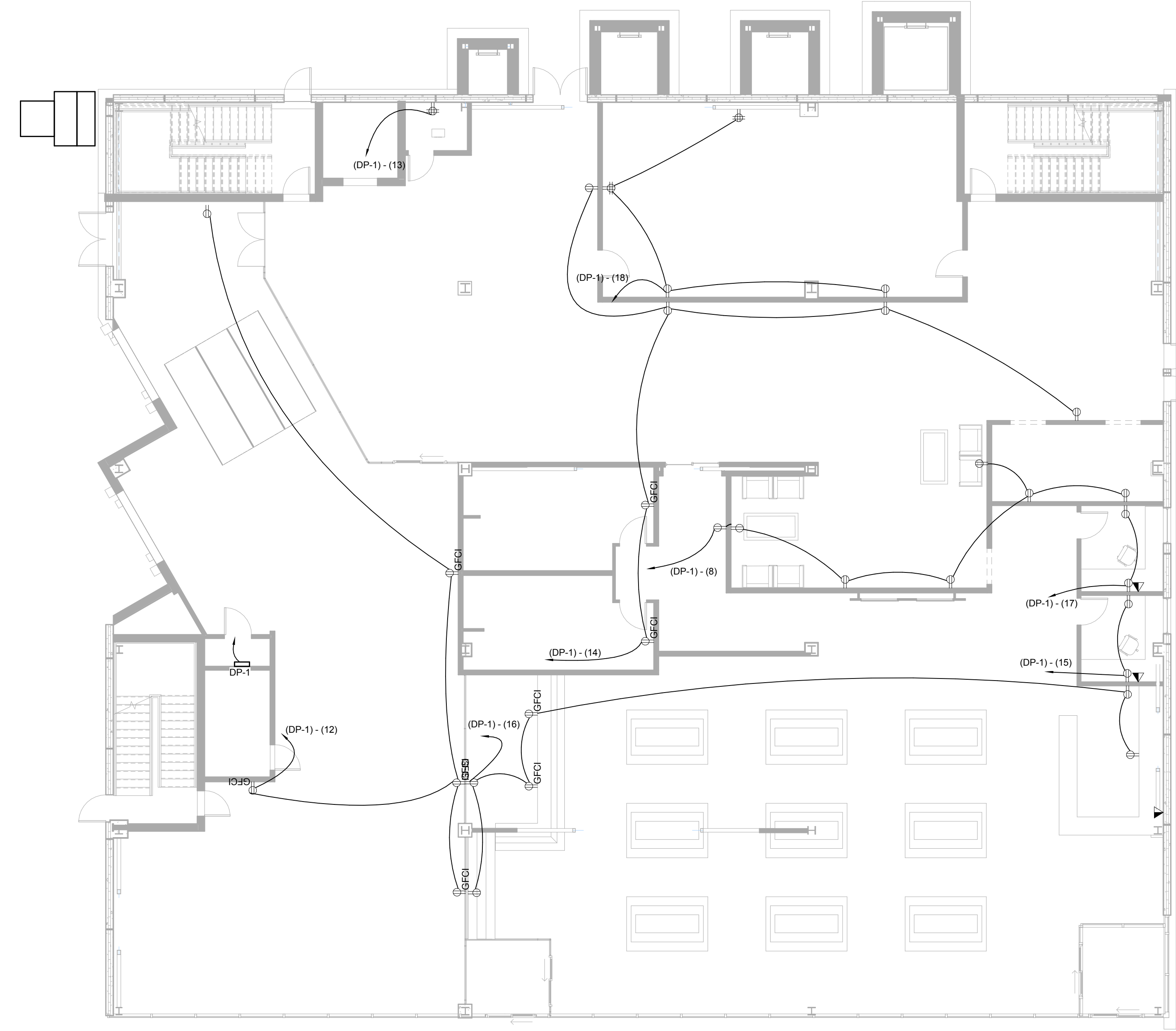
Drawn By SYN

E101

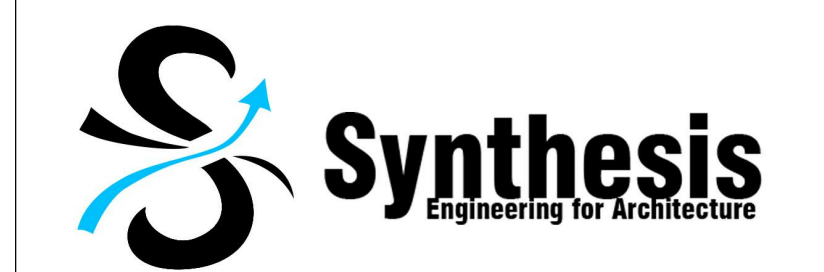
Scale



1 Basement Electrical
1/8" = 1'-0"



2 Level 1 Electrical
1/8" = 1'-0"



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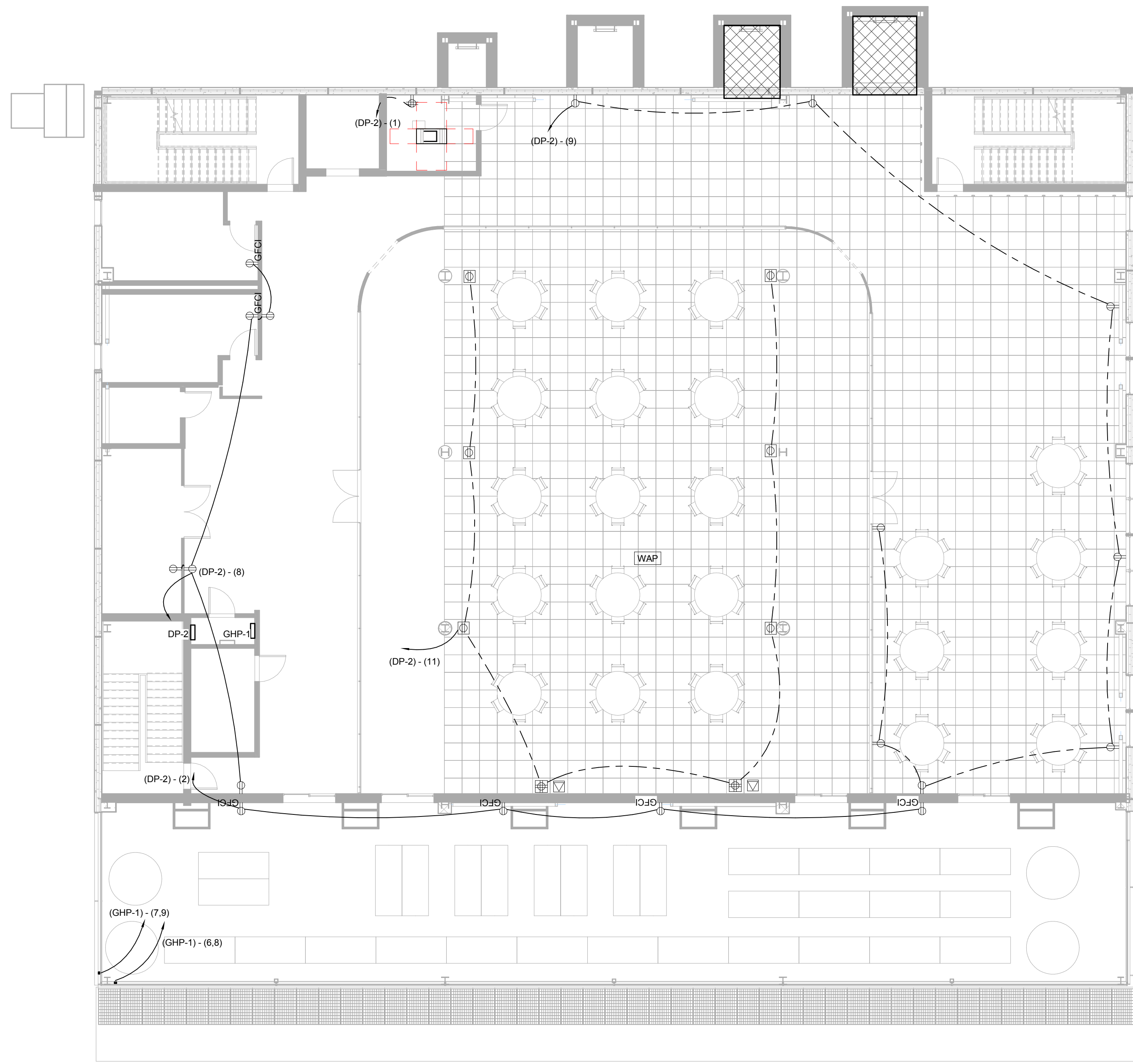
**Basement and First
Floor Electrical Plan**

Team Number 09-2015
Date 2-11-2015
Drawn By SYN

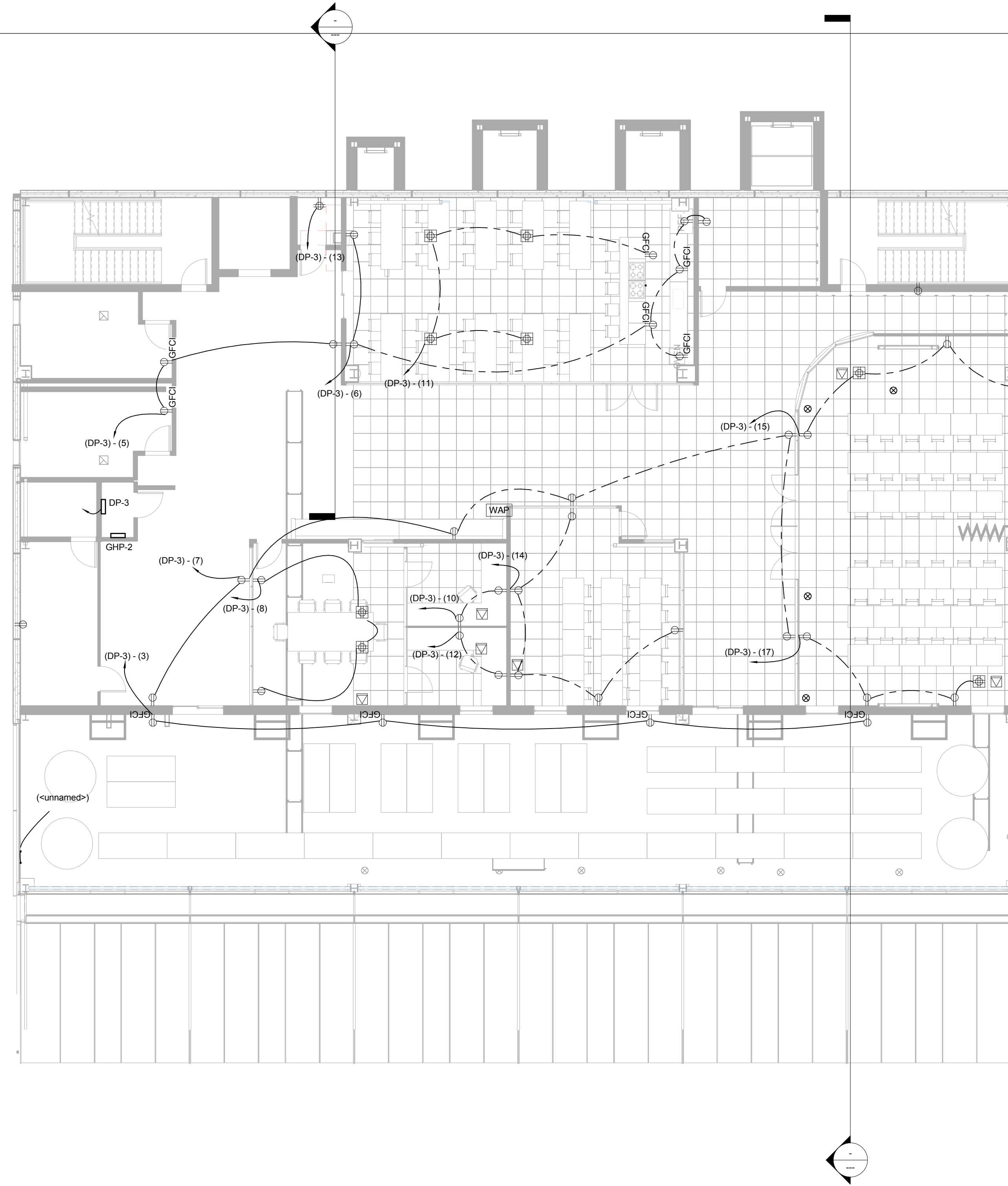
E102

Scale 1/8" = 1'-0"

2/10/2015 1:45:05 AM



① Level 2 Electrical
1/8" = 1'-0"



② Level 3 Electrical
1/8" = 1'-0"



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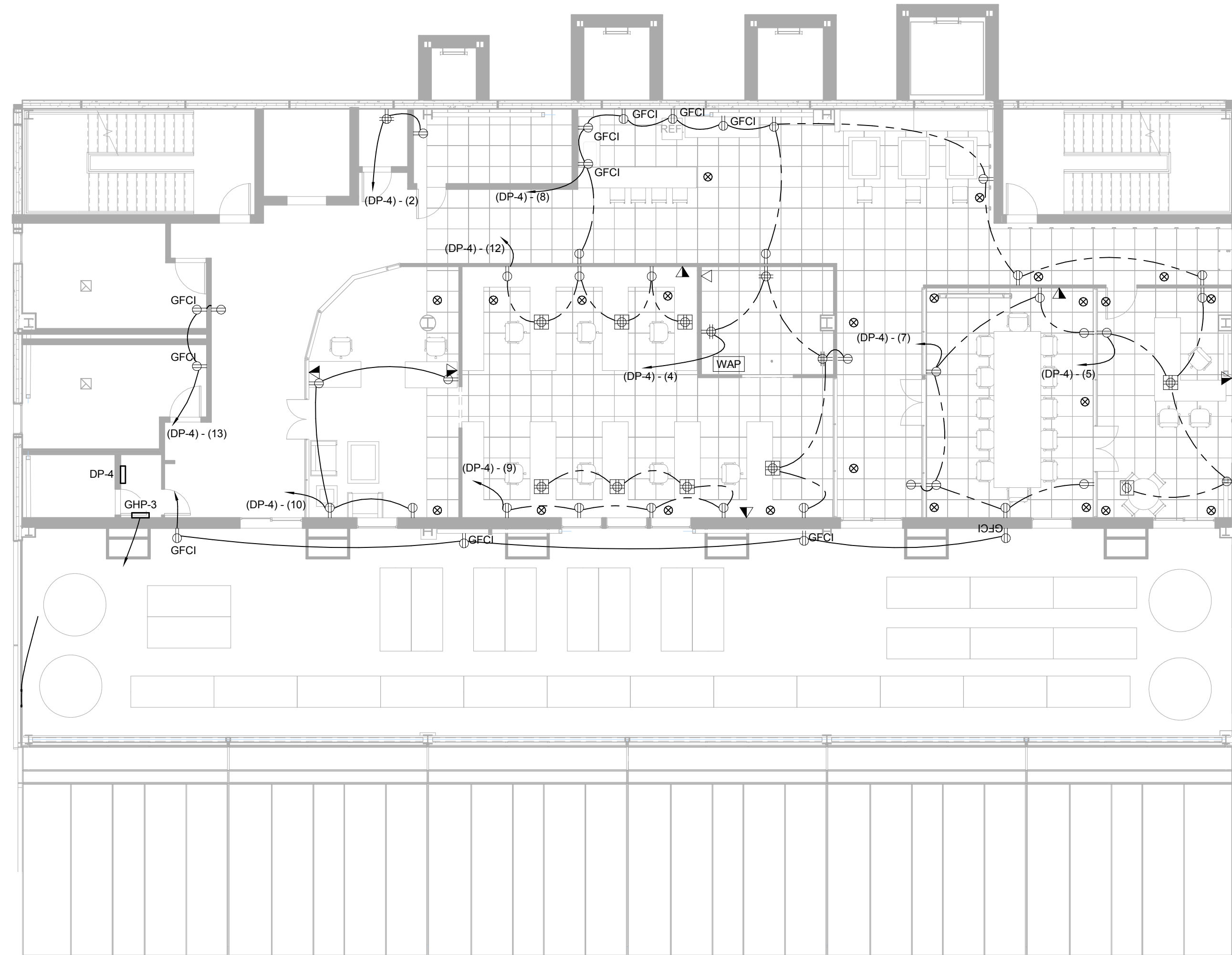
**Second and Third
Floor Electrical Plan**

Team Number 09-2015
Date 2-11-2015
Drawn By SYN

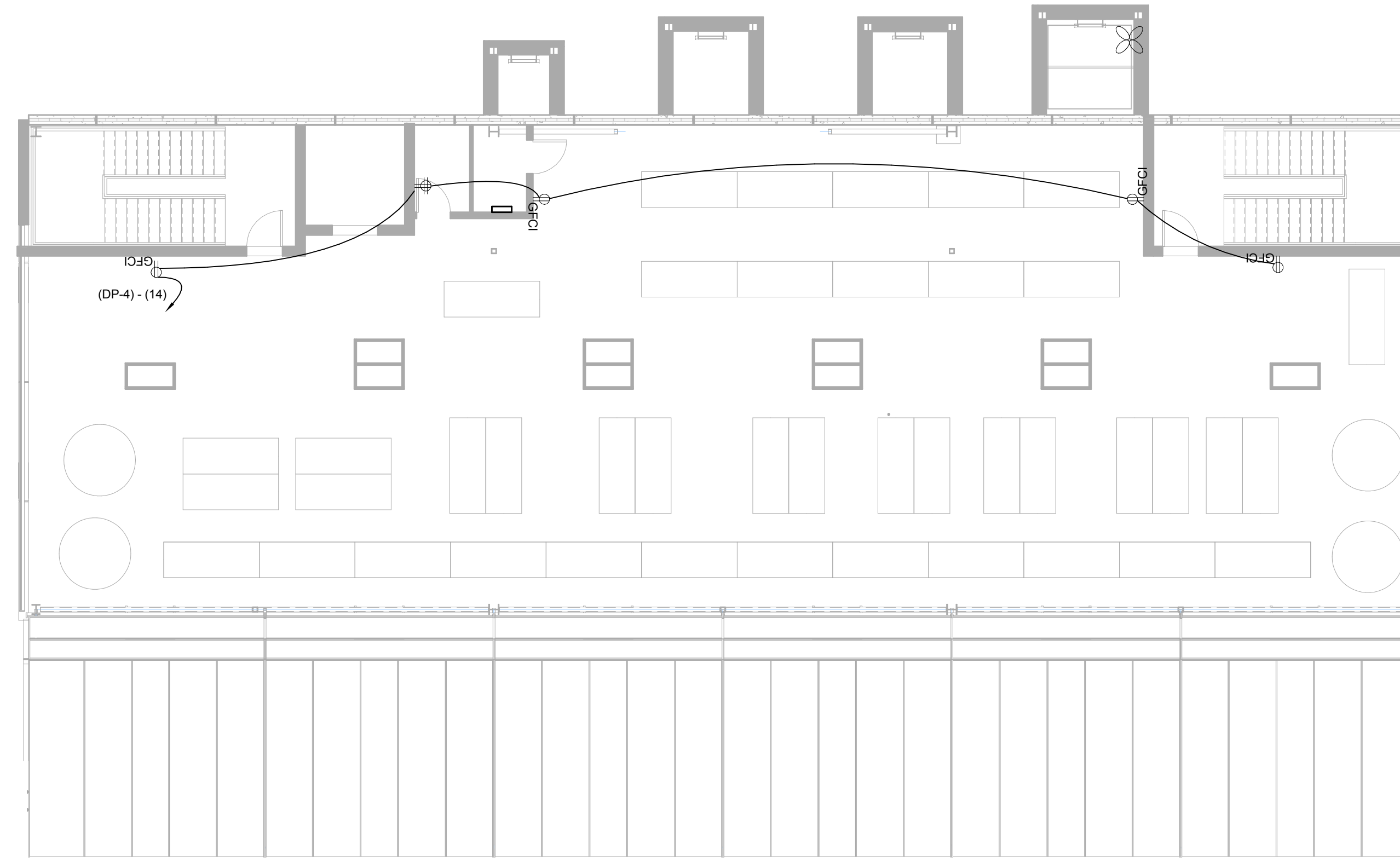
E103

Scale 1/8" = 1'-0"

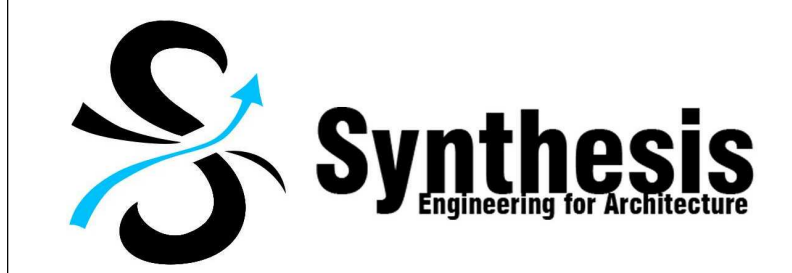
2/10/2015 1:45:08 AM



① Level 4 Electrical
1/8" = 1'-0"



② Level 5 Electrical
1/8" = 1'-0"



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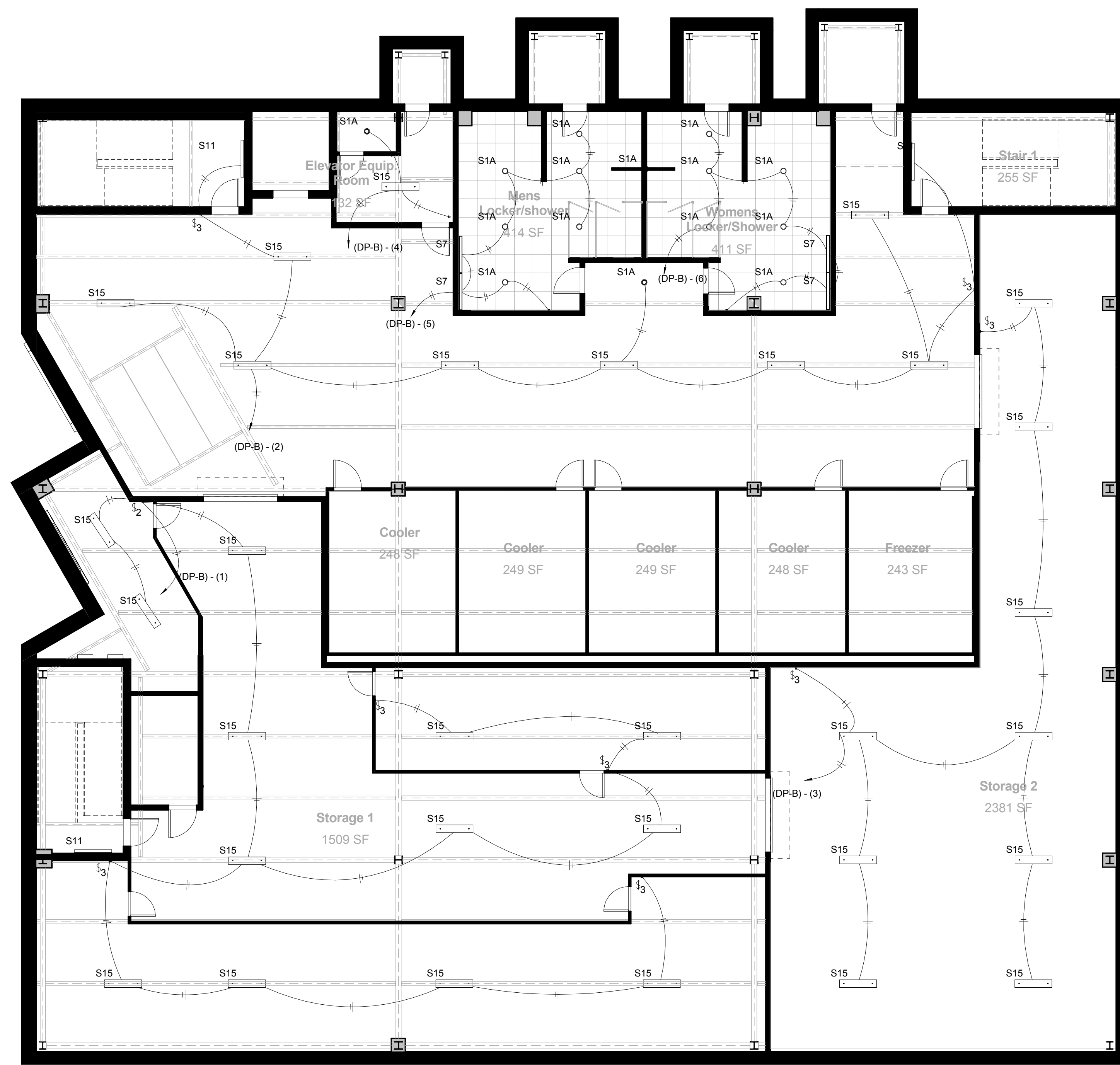
**Fourth and Fifth
Floor Electrical Plan**

Team Number 09-2015
Date 2-11-2015
Drawn By SYN

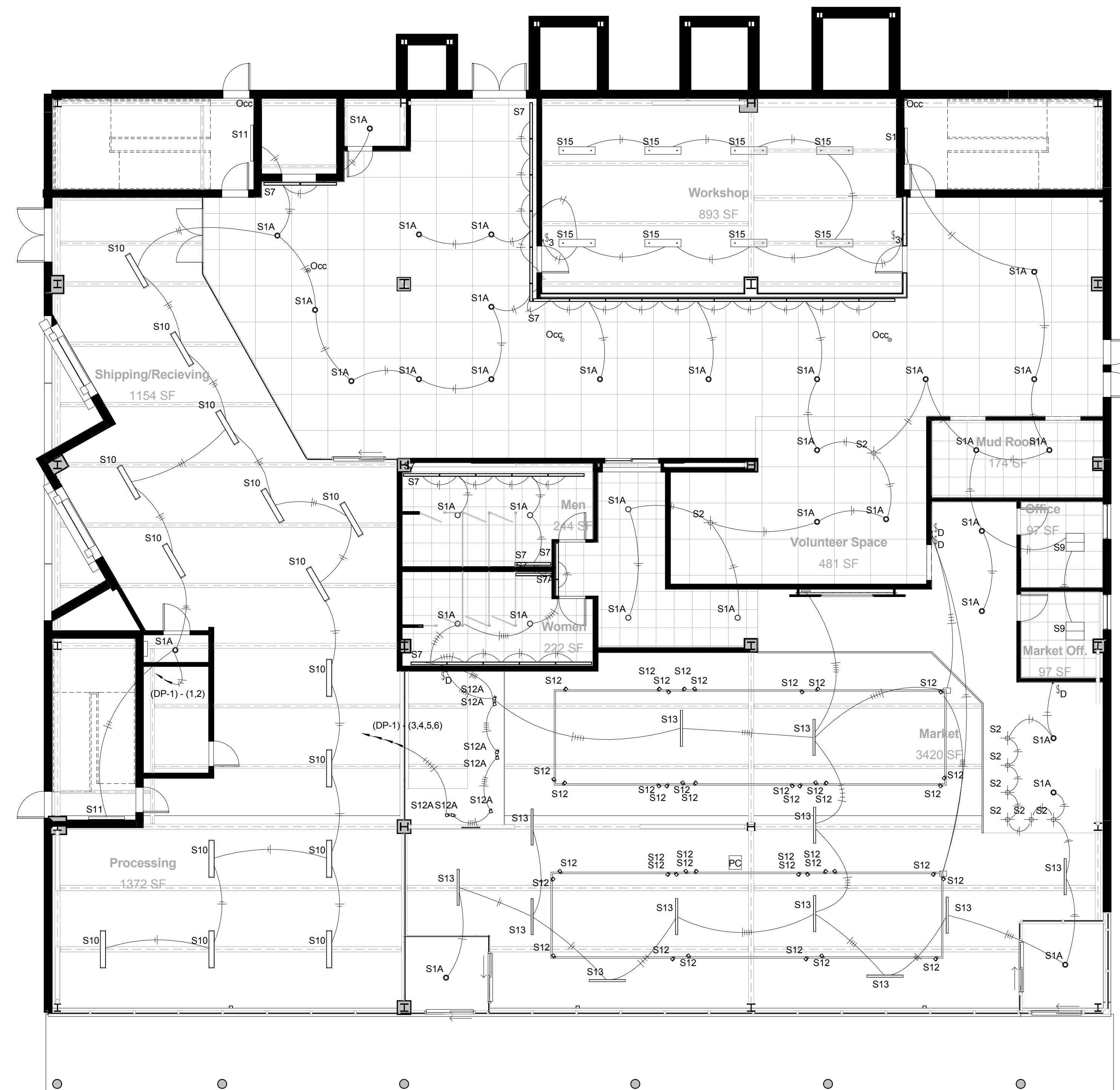
E104

Scale 1/8" = 1'-0"

2/10/2015 1:45:10 AM



1 Lighting - Basement Level
1/8" = 1'-0"



2 Lighting - Level 1
1/8" = 1'-0"



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**GROWING POWER
VERTICAL FARM**

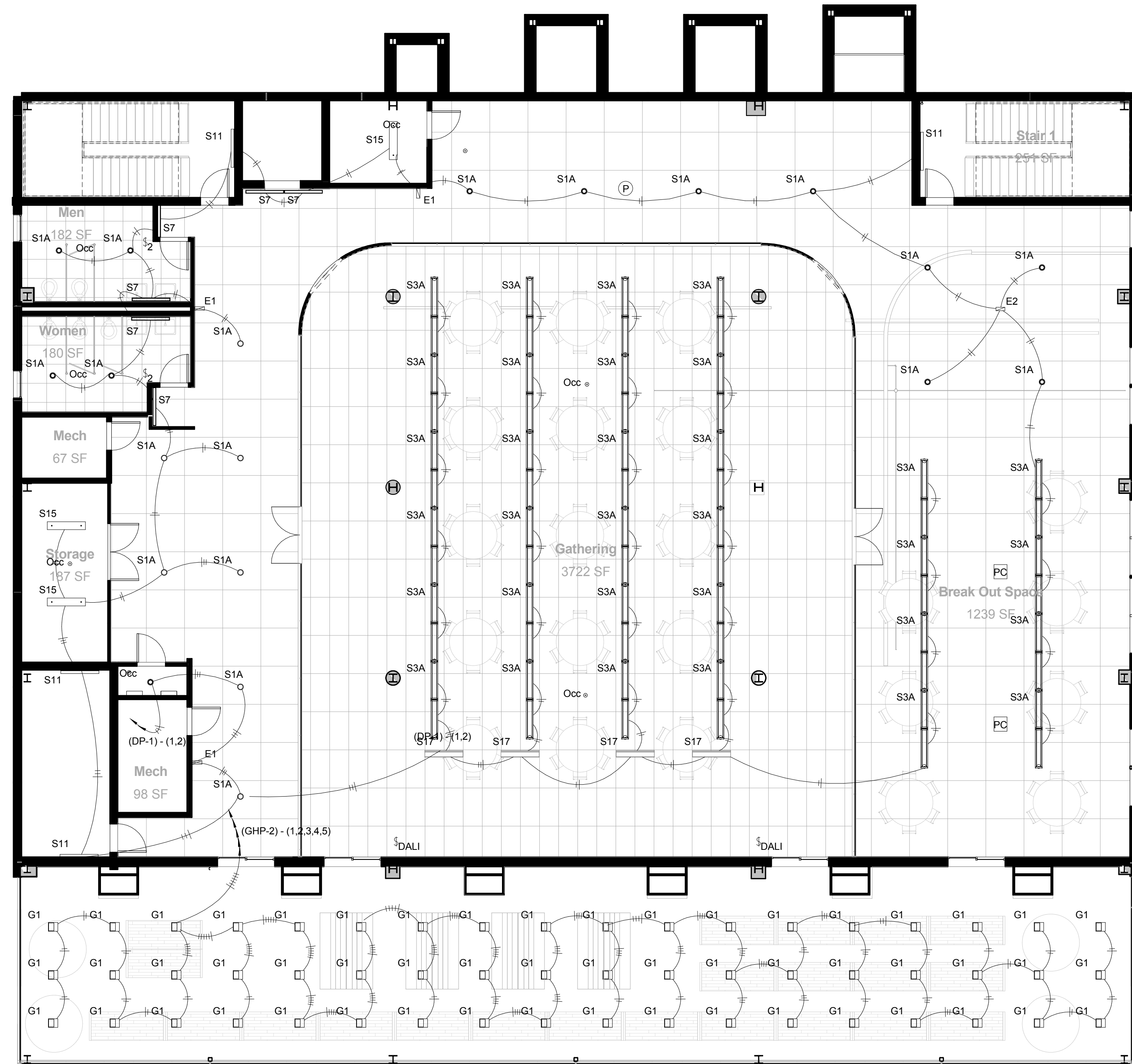
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**Basement & Level 1
Lighting Plan**

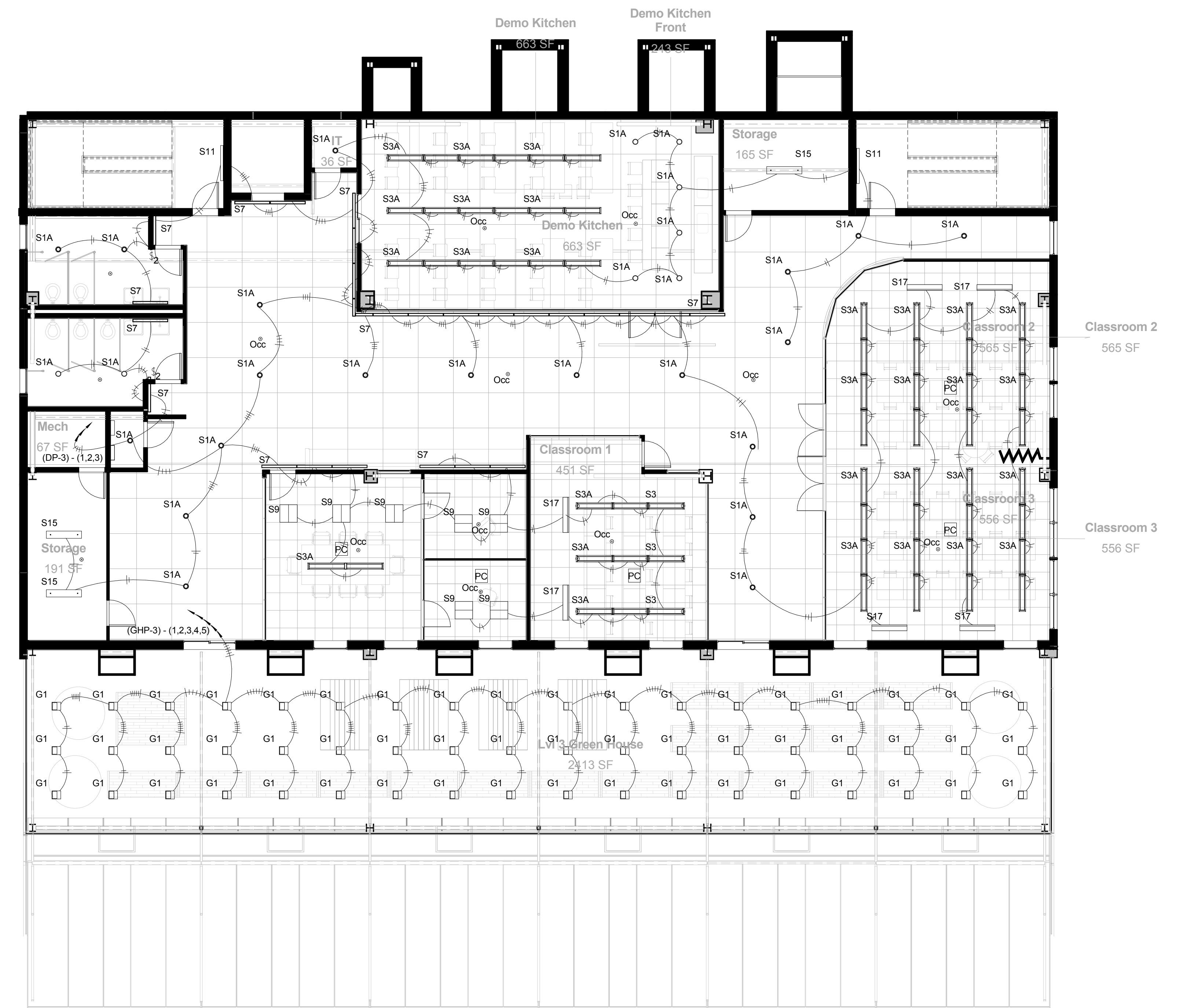
Team Number AEI 09 - 2015
Date 10/18/14
Drawn By SYN

E105

Scale 1/8" = 1'-0"



① Lighting - Level 2
1/8" = 1'-0"



② Lighting - Level 3
1/8" = 1'-0"



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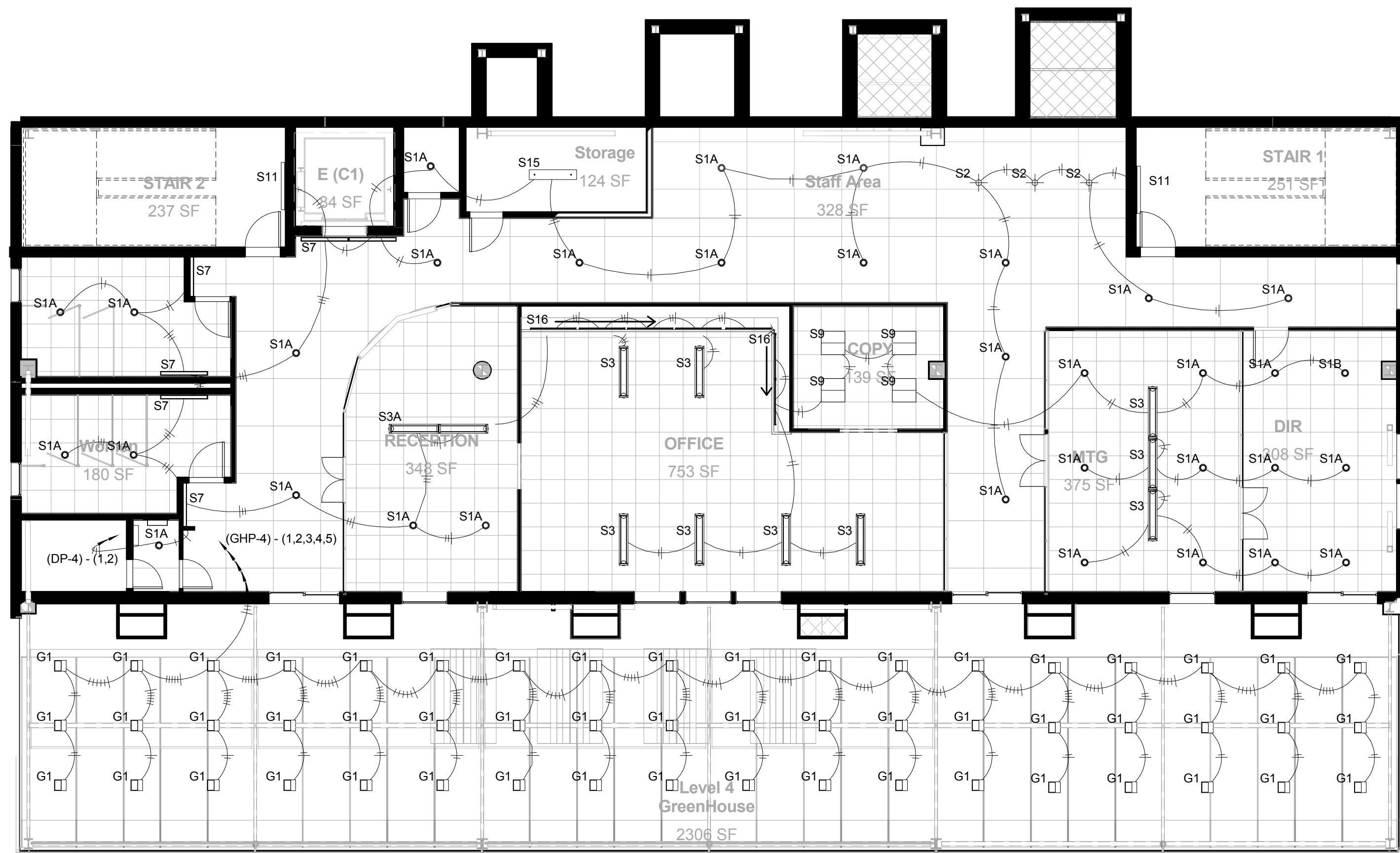
5500 W. Silver Spring Dr.
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**Level 2 & 3
Lighting Plan**

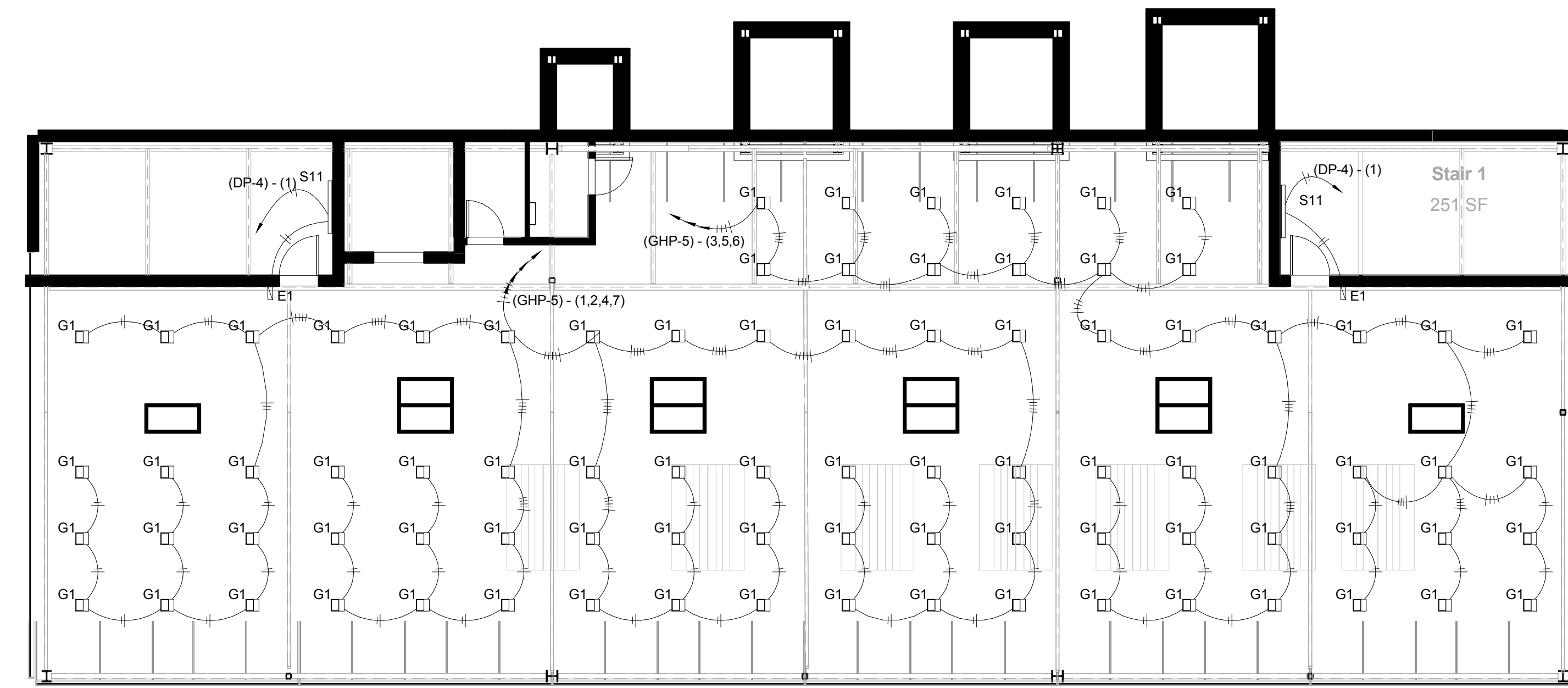
Team Number AEI 09 - 2015
Date 10/18/14
Drawn By SYN

E106

Scale 1/8" = 1'-0"



① Lighting - Level 4
1/8" = 1'-0"



② Lighting - Level 5
1/8" = 1'-0"



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VERTICAL FARM**

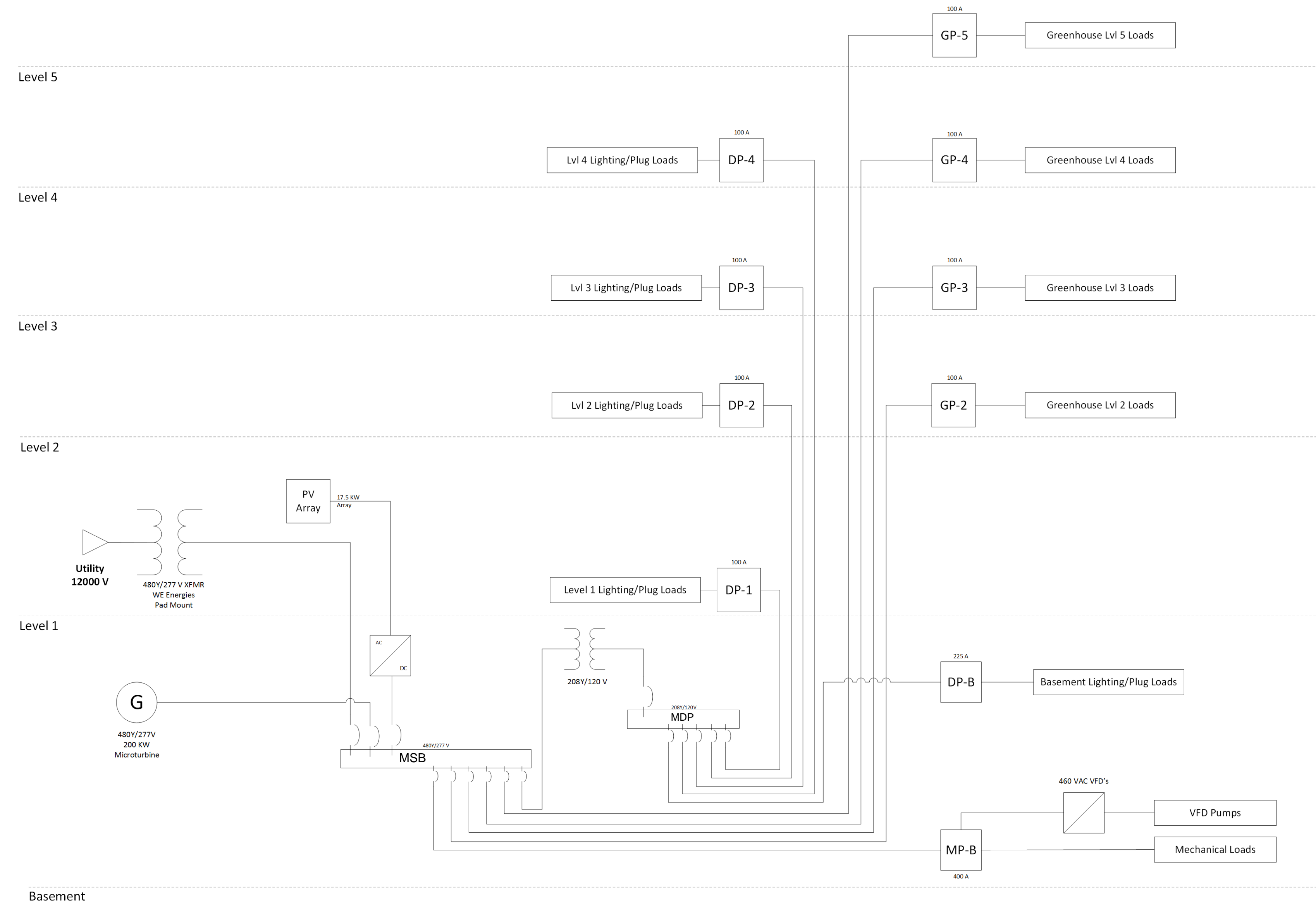
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**Level 4 & 5
Lighting Plan**

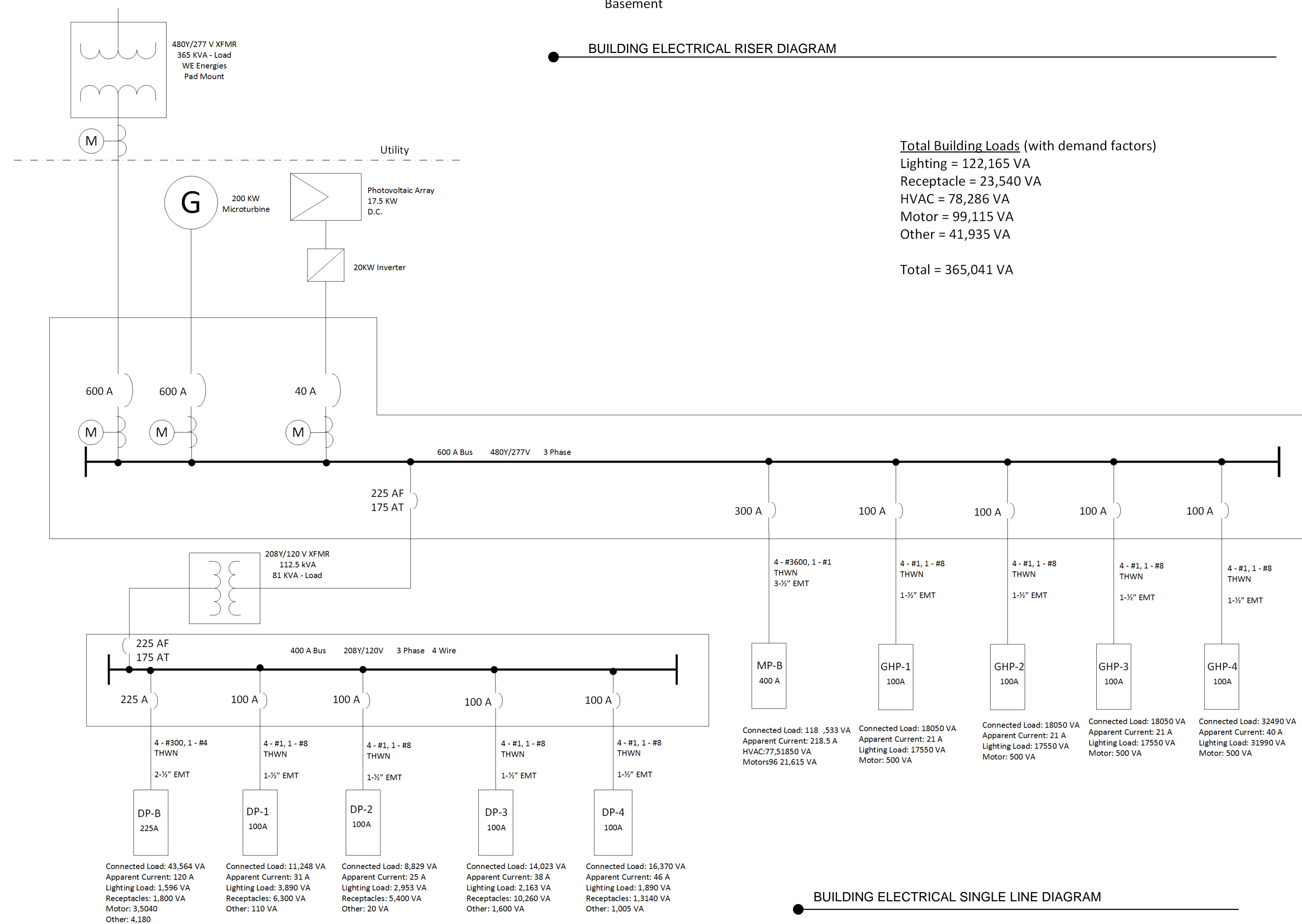
Team Number AEI 09 - 2015
Date 10/18/14
Drawn By SYN

E107

Scale 1/8" = 1'-0"



BUILDING ELECTRICAL RISER DIAGRAM



BUILDING ELECTRICAL SINGLE LINE DIAGRAM

Total Building Loads (with demand factors)
 Lighting = 122,165 VA
 Receptacle = 23,540 VA
 HVAC = 78,286 VA
 Motor = 99,115 VA
 Other = 41,935 VA
Total = 365,041 VA



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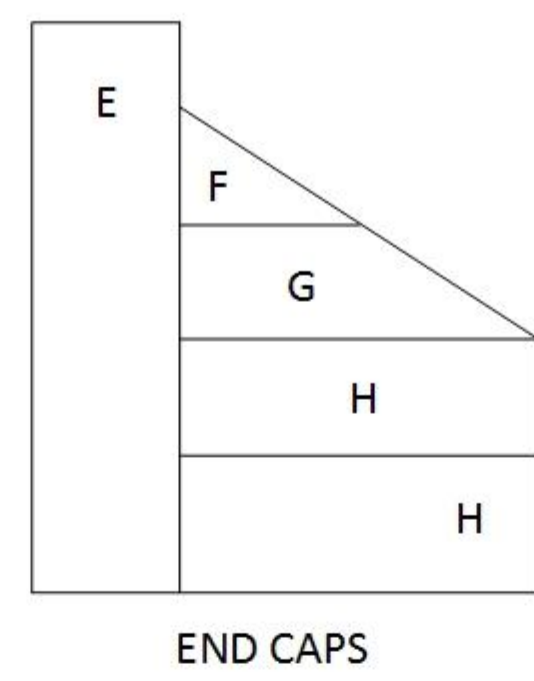
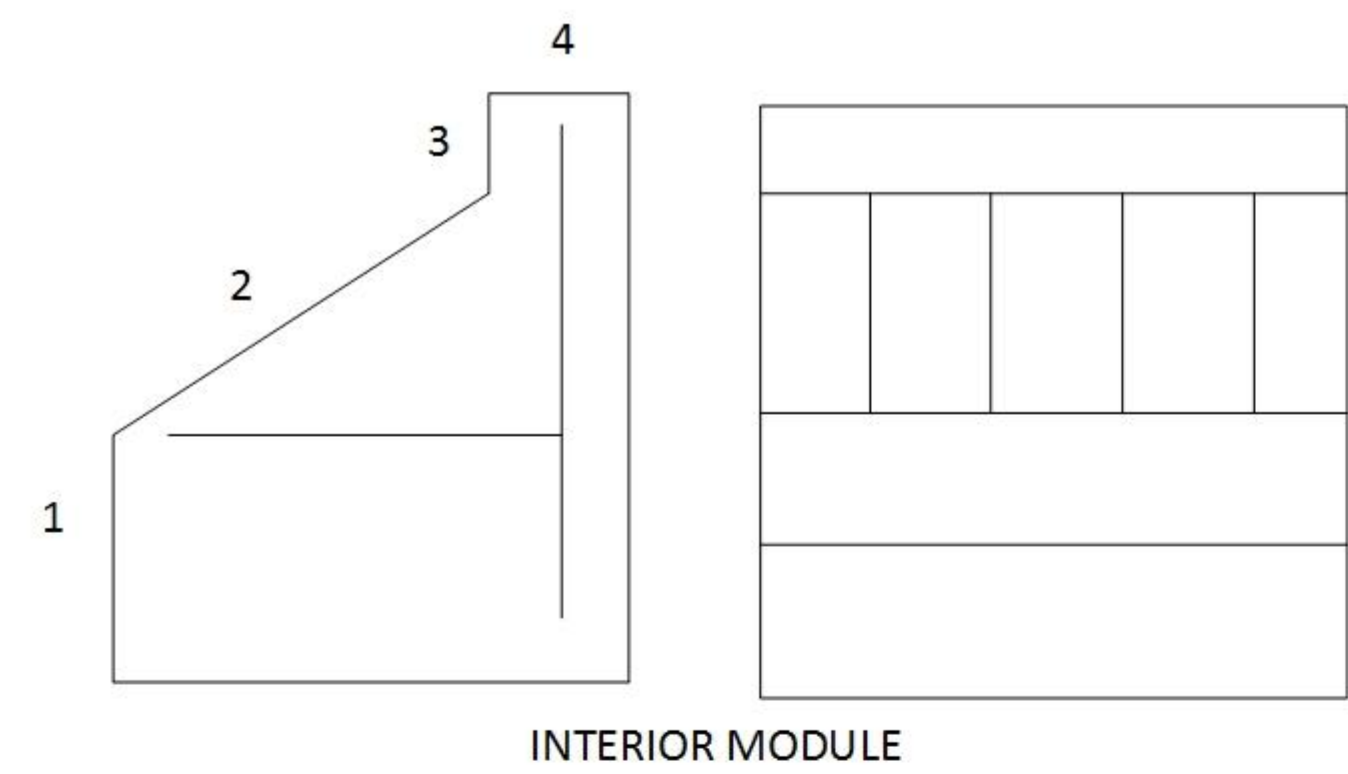
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**Building Riser
Diagram**

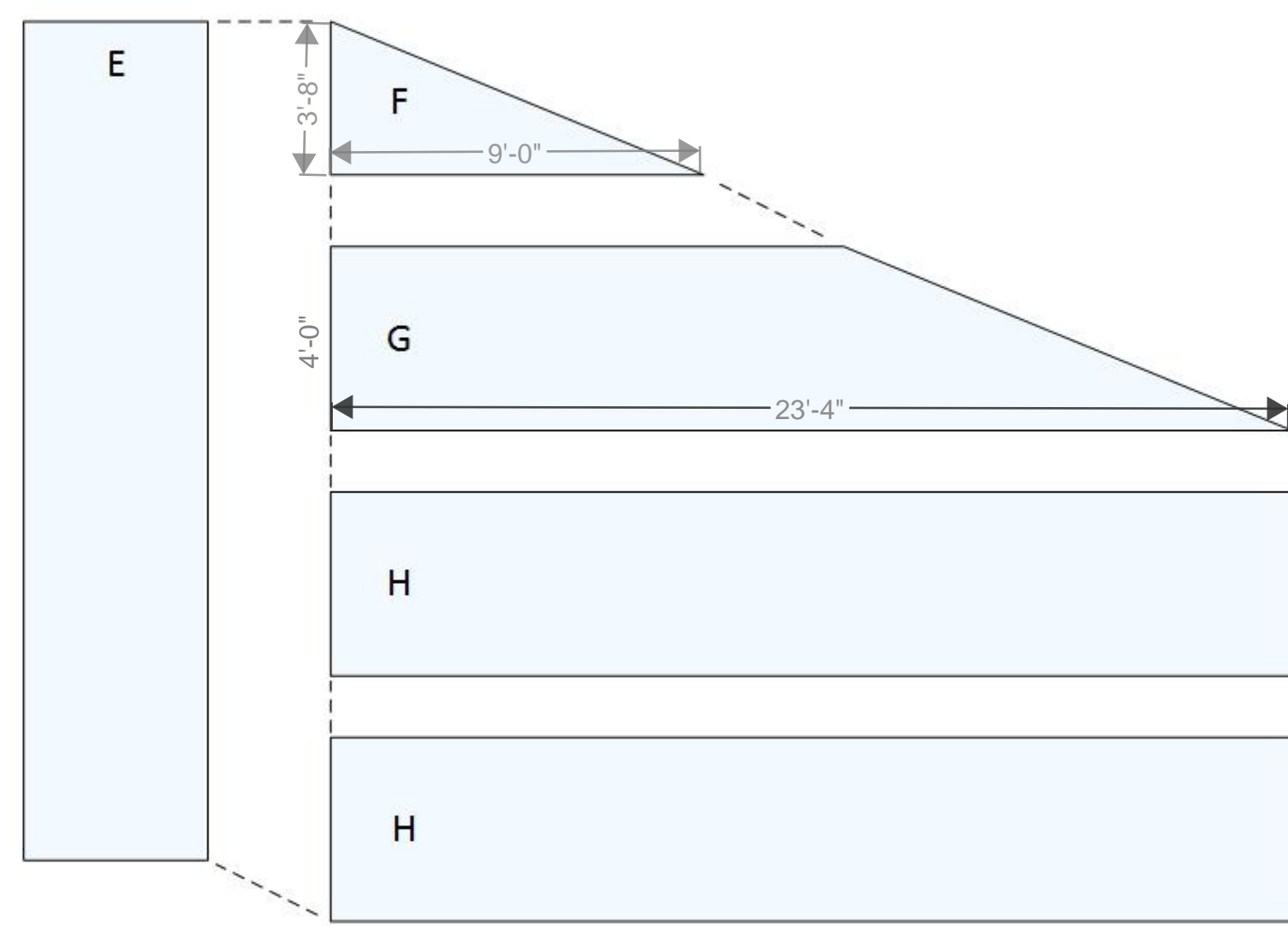
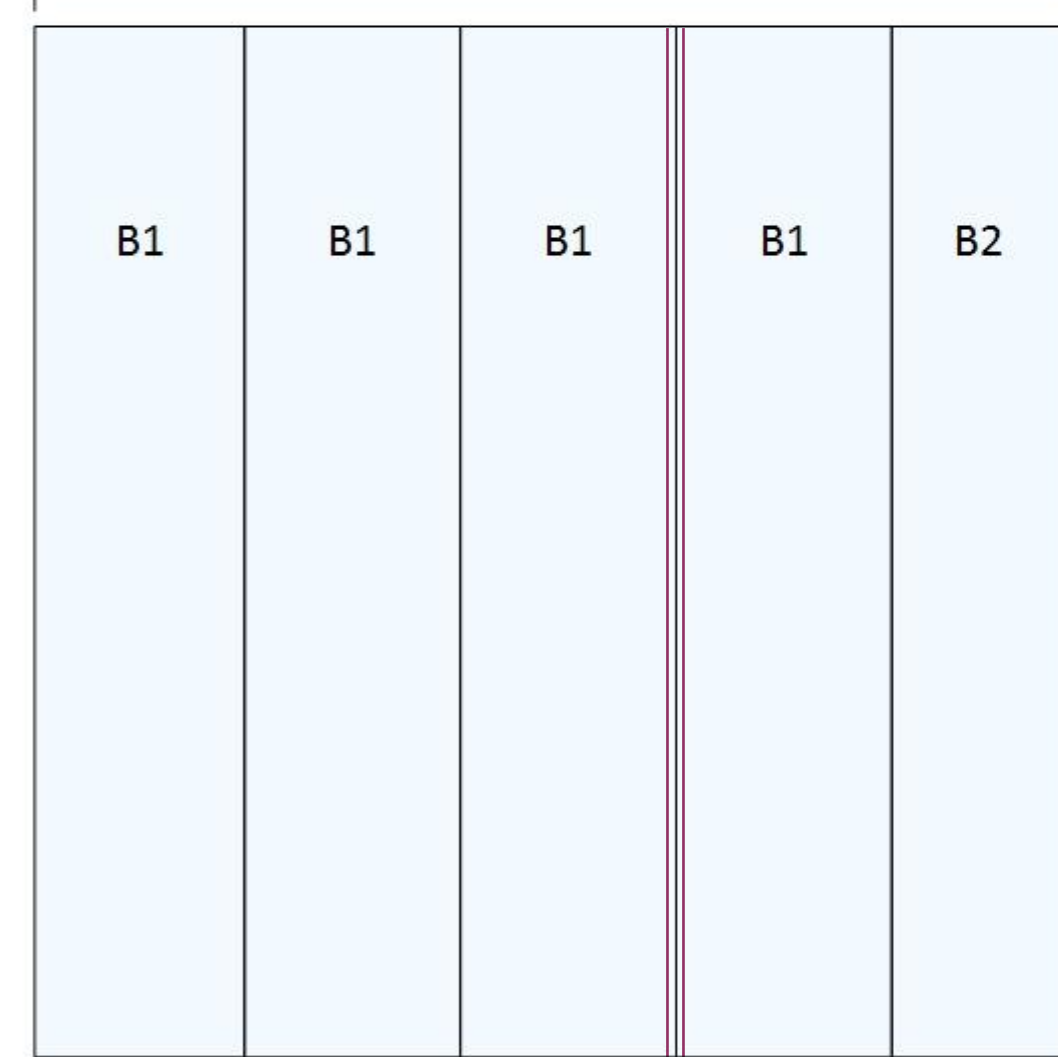
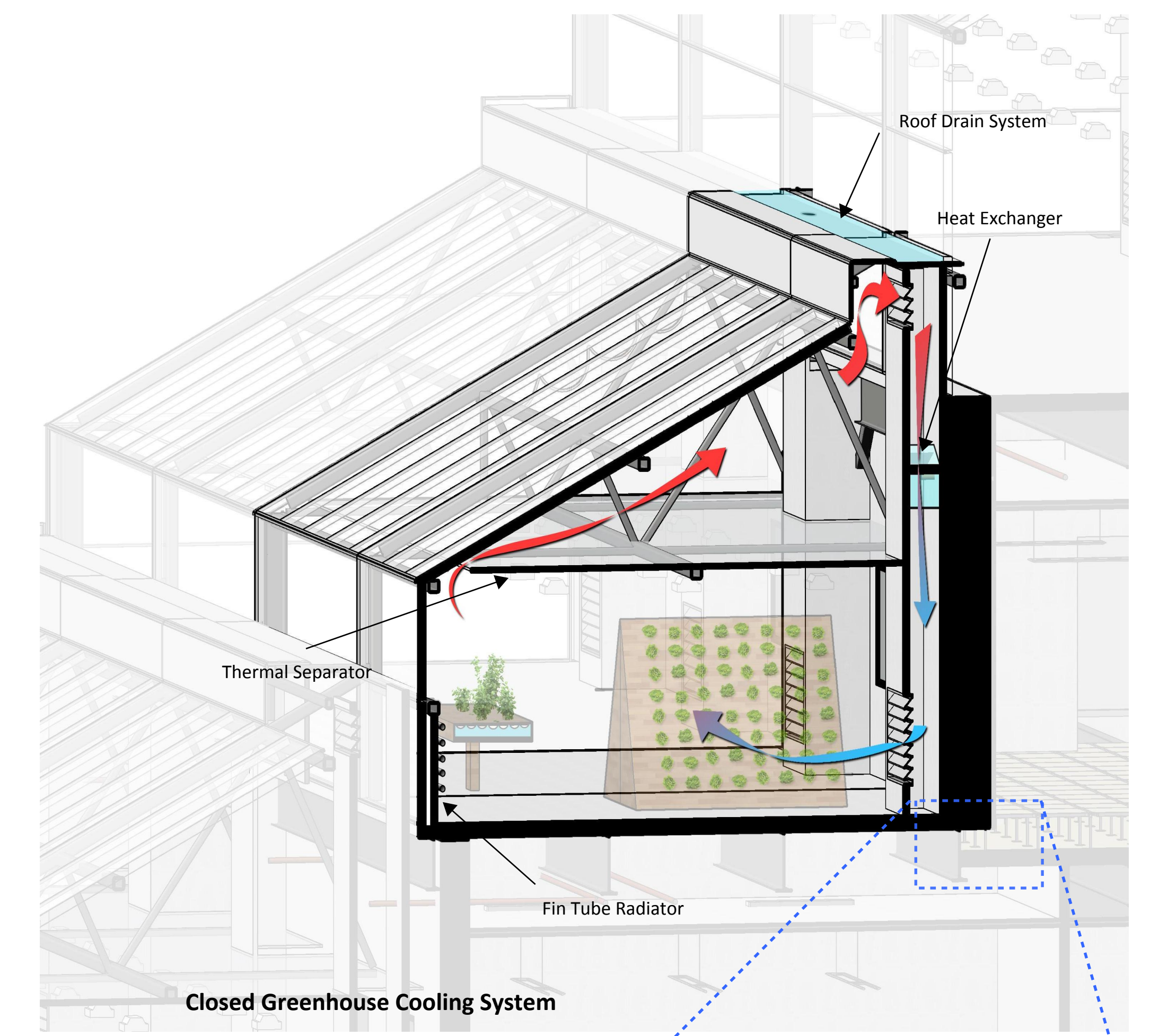
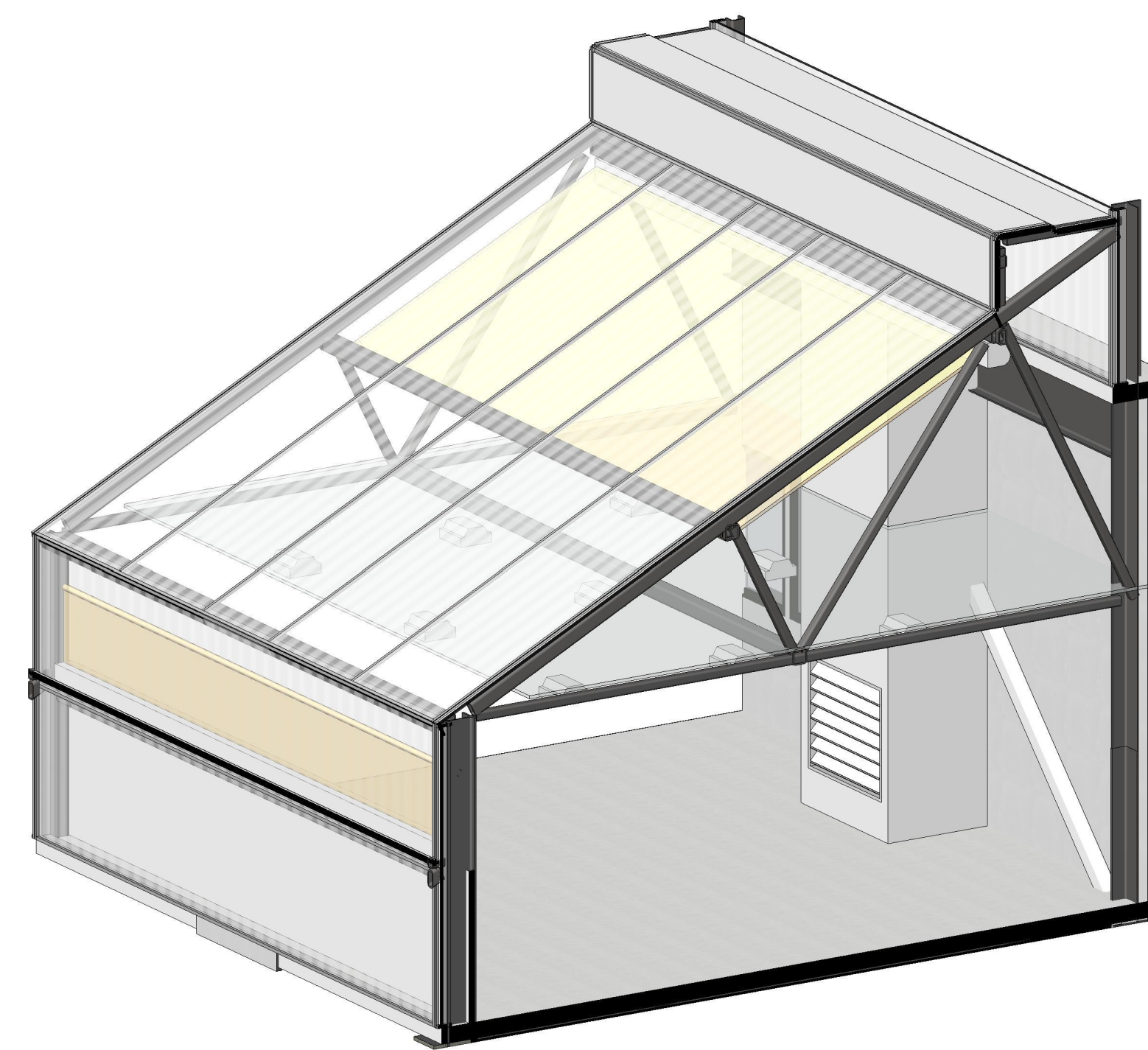
Team Number	09-2015
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E109

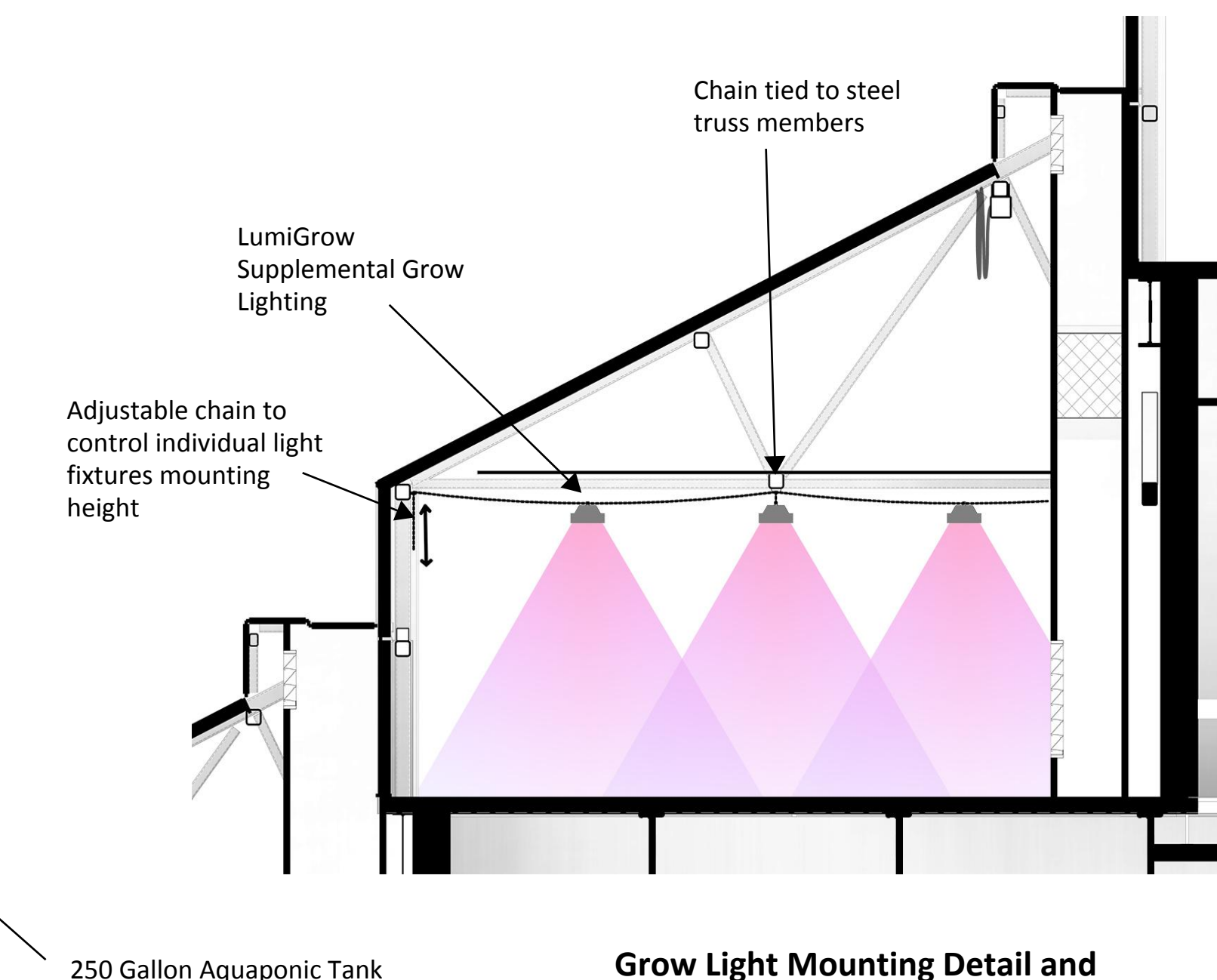
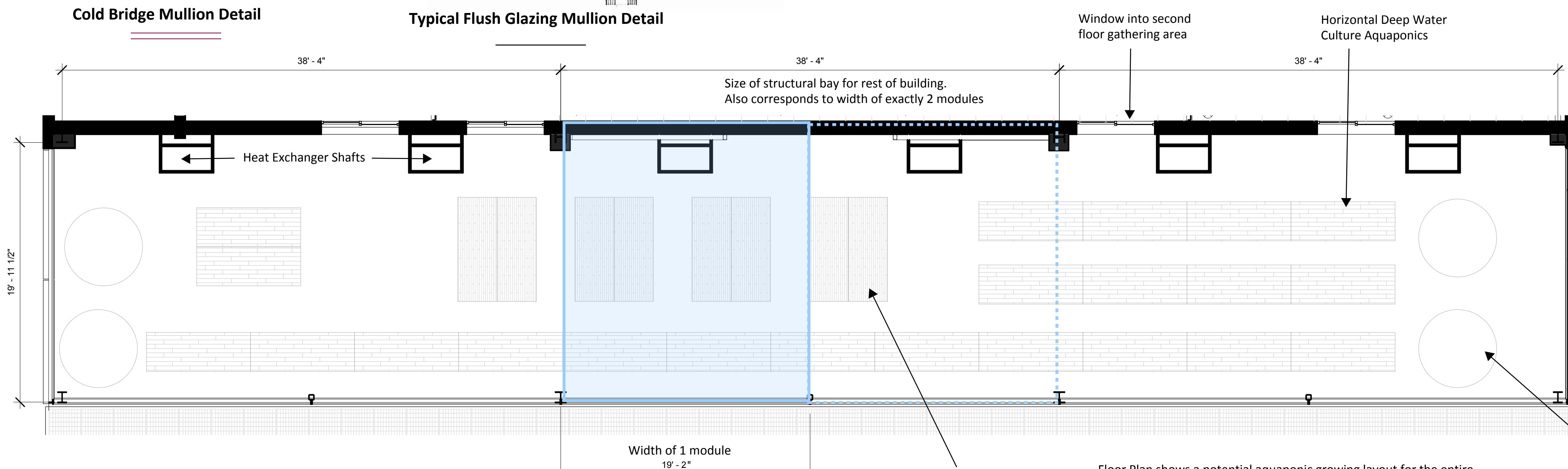
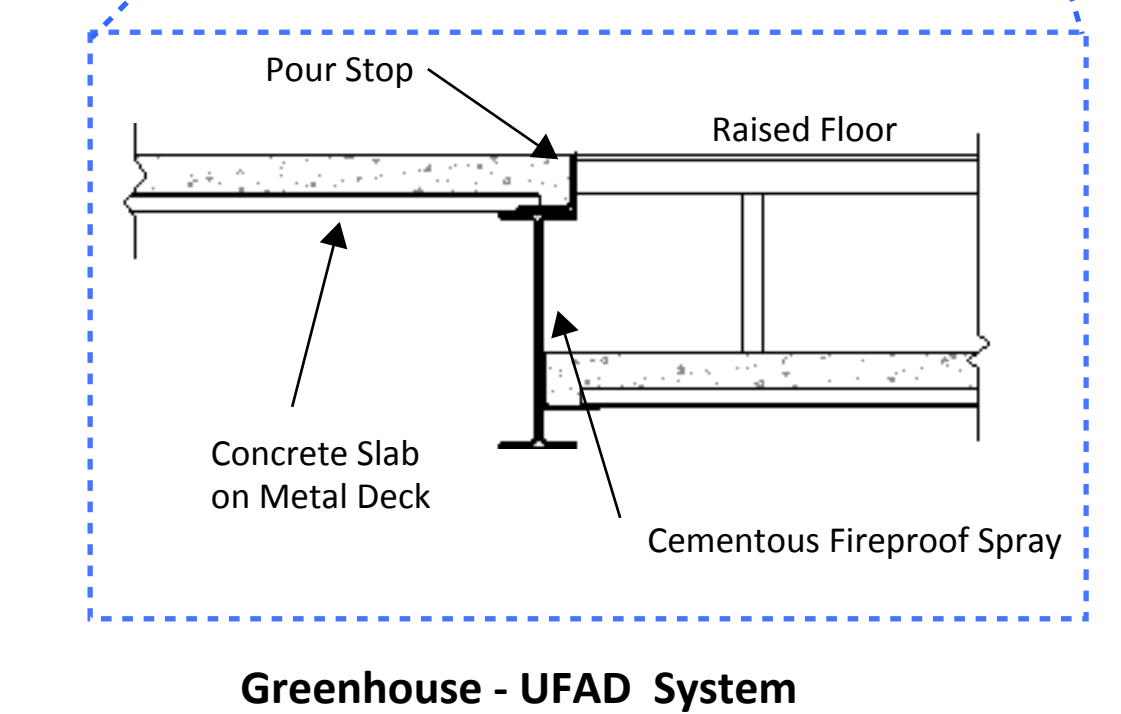
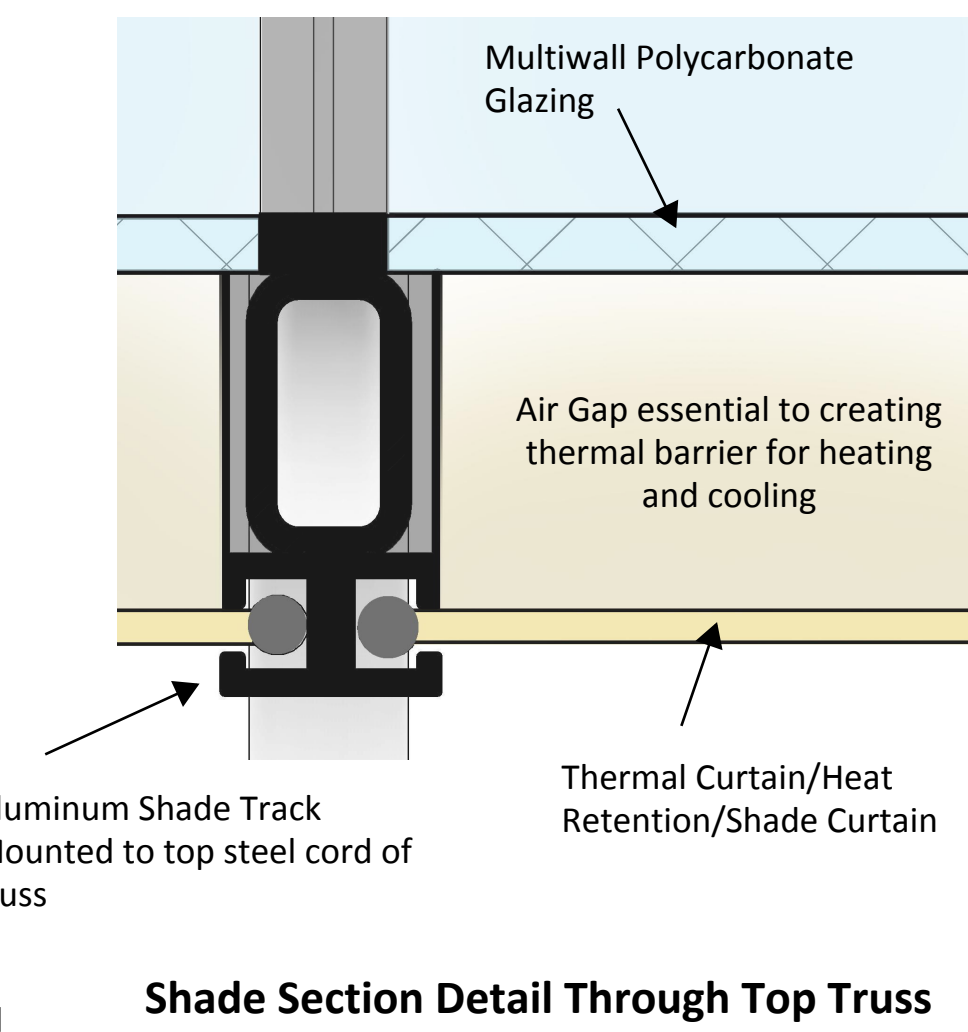
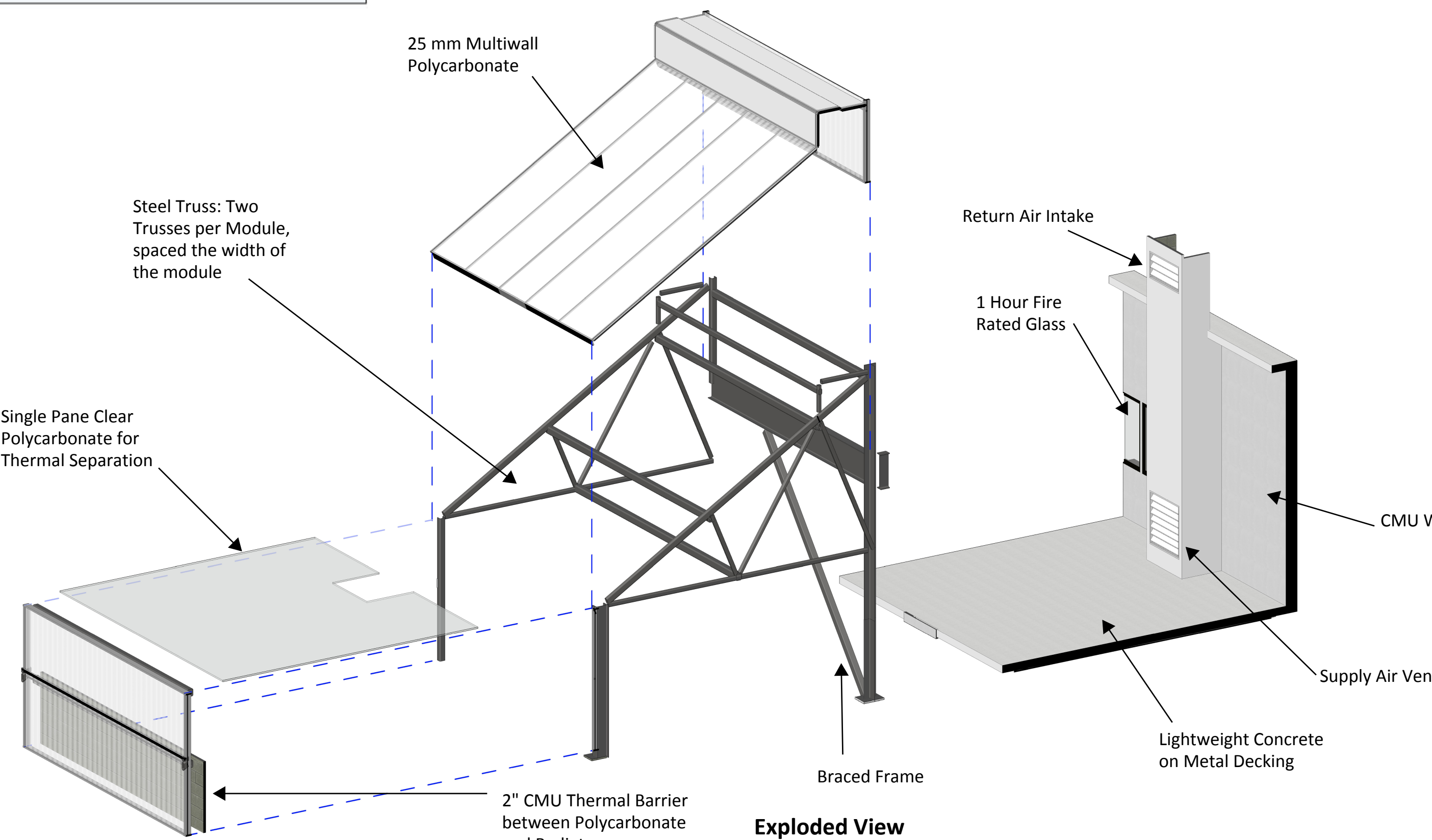
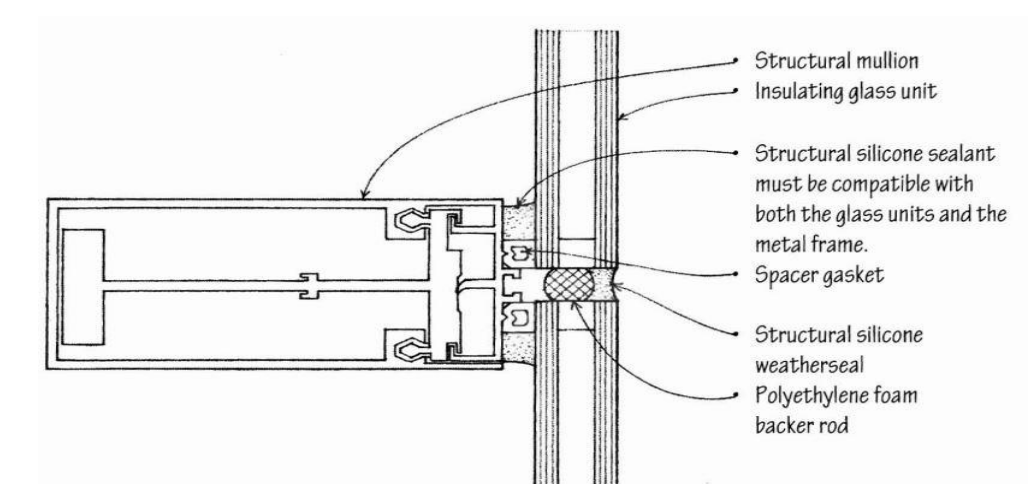
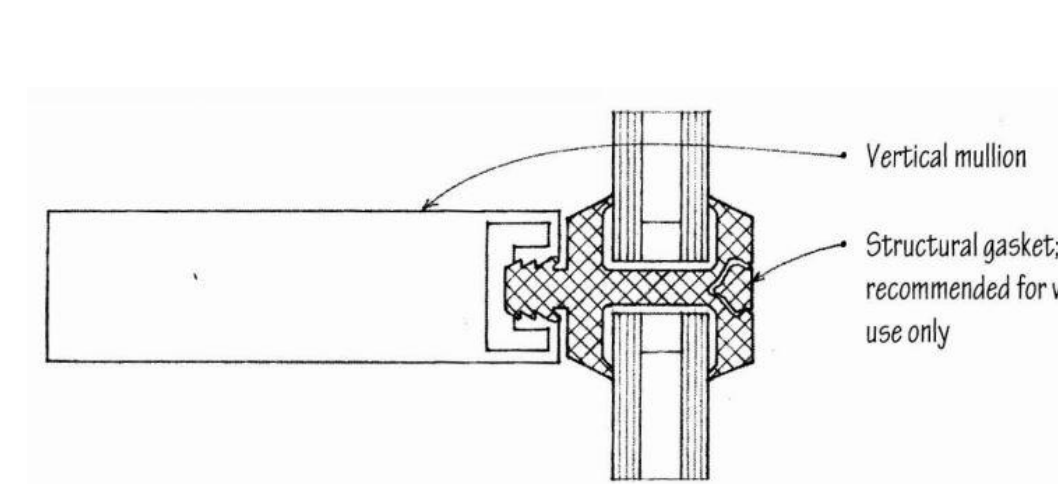
Scale



- Construction Sequence:**
1. Steel Erection
 2. Metal Decking
 3. Concrete Floor Slab
 4. Polycarbonate and Mullion System
 5. CMU Back Wall
 6. CMU Heat Exchanger Shaft
 7. Shade System
 8. Horizontal Polycarbonate
 9. Lighting Fixtures



END CAPS
E – (4'-0" x 17'-3") Panels
F – See Above Dimensions
G – See Above Dimensions
H – (4'-0" x 15'-0") Panel



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Greenhouse Module
6 Per Greenhouse

Team Number: AEI 09 - 2015
Date: 10/18/14
Drawn By: SYN

E110

Scale: 3/16" = 1'-0"

1 Level 2 Copy 1
3/16" = 1'-0"