



BRD Builders
Powered by RedTeam

OUR CHANGE PROPOSAL

04/26/2023

Christopher Nardi
Town Of Colchester
127 Norwich Ave
Colchester, CT 06415

Re: PCO 11 for **Electrical building code upgrades**

Project: Colchester Senior Center

Colchester Senior Center, 15 Louis Ln, Colchester, CT 06415

This Proposal is for the Change referenced above and more particularly defined by the Scope of Work comprised of this Proposal, its Attachments, and other Contract Documents incorporated by reference. Therefore, we propose to change the following:

16 - Electrical

- 1. Electrical- Journeyman
- 2. Electrical
- 3. Electrical mark-up(10%)

Price: \$ **3,572.22** *Three Thousand Five Hundred Seventy Two Dollars and Twenty Two Cents*

Time: The duration of the Work to achieve Substantial Completion will be **INCREASED by 5 days.**

Clarification(s): - Electrical Building code upgrades, changes to plans E101,E201,E202,E501 & E502

Expiration: This Proposal shall remain open for 30 calendar day(s).

Attachment(s): Additional Attachments

Please contact me at (860) 706-0359 or via e-mail R.Lamarre@brdbuilders.com if you have any questions or require additional information.

Regards,
BRD Builders
Robert Lamarre

ACCEPTANCE OF PROPOSAL

The Scope of Work described above supersedes any and all prior communication about this Change.

Customer Signature: _____ Date: _____

Town Of Colchester



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ADDITIONAL DOCUMENTS

Project: 1800001 - Electrical building code upgrades

Date: 04/26/2023

Document: 1800001-11

Name

1 IBC Changes & Electrical Code Requirements plans

<https://redteam.link/6s05d1w>

2 CCN#1.2Rev4 PR#01

<https://redteam.link/kzssktq>

3 RedTeam_ Cost Estimate

<https://redteam.link/2evkek3>

BRD Builders: _____

Customer: _____



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COST ESTIMATE
Including Item Details

1800001 - 11 - Electrical building code upgrades

Manager: Robert Lamarre

As of 11/8/2023

Authorized Change 11

Phase	Description	Quantity	U/M	Labor (\$)	Material (\$)	Subcontract (\$)	Equipment (\$)	Other (\$)	Total (\$)
-	16000 Electrical (L&M Combo)	1.00	l/s	1,215.22	1,545.13	0.00	0.00	276.04	3,036.39
	Electrical- Journeyman	13.92	hrs	Labor @	87.30	=			1,215.22
	Electrical (L&M Combo)								
	Electrical	1.00	l/s	Material @	1,545.13	=			1,545.13
	Electrical mark-up(10%)	1.00	l/s	Other @	276.04	=			276.04

SUBTOTAL DIRECT COSTS				1,215.22	1,545.13	0.00	0.00	276.04	3,036.39
Indirect Costs				0.00	0.00	0.00	0.00	0.00	
Indirect Cost Allocation Rates				0.00%	0.00%	0.00%	0.00%	0.00%	
TOTAL DIRECT & INDIRECT COSTS				1,215.22	1,545.13	0.00	0.00	276.04	3,036.39
Profit Margin								15.00%	535.83

Supplemental Markups:

TOTAL PRICE	3,572.22
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PROPOSED CHANGE ORDER

Electrical Services Group LLC

37 Townsend Avenue
New Haven, CT 06512
Telephone: 203-745-0323
Fax: 203-466-1045
Contact: Edward Napolitano
E-mail: edn@esg-ct.com

CCN # 1.2
Date: 11/7/2023
Project Name: Colchester Senior Center
Project Number: Colchester Senior Center
Page Number: 1

Client Address:

BRD Builders

Contact: Robert Lamarre
2099 Main Street
Hartford, CT 06120

Work Description

INSTALLATION OF:

PR#001

- (2) ADDITIONAL EXITS. LIGHTING REP CLARIFIES THAT THESE ARE CT APPROVED HANDICAP NOT THE STANDARD EDGELIT EXITS. TOTAL CABLE LENGTH IS 120' FOR BOTH
(18) ADDITIONAL WEATHER RESISTANT DEVICES
(1) 15A/1POLE GFCI BREAKER FOR DISHWASHING EQUIPMENT
(1) 35A/3 POLE GFCI BREAKER FOR DISHWASHING EQUIPMENT
(1) EF3 WITH 12/2 MC CABLE. UTILIZE BREAKERS FROM PP3. TRANSFER TO PP2
(1) EF4 WITH 12/2 MC CABLE. UTILIZE BREAKERS FROM RPK. TRANSFER TO PP2

Itemized Breakdown

Description	Qty	Total Mat.	Total Hrs.
3/4" LT FLEX	12	37.68	0.89
3/4" LT STRAIGHT CONN	4	26.44	1.02
#12/2C MC CABLE STL ARMOR	120	105.84	2.84
3/8" AC-90/MC DC SS CONN	8	6.87	0.72
1-H CABLE STRAP	6	1.32	0.18
B2-1 RED WIRE CONN	8	1.96	0.72
4x2 1/8" OCT BOX 1/2" KO	2	49.42	0.66
1 7/8" DEEP HANDY BOX 1/2" KO	2	29.99	0.66
HANDY BOX TGL SW COVER	2	11.23	0.07
WP RATED DEVICE	18	72.00	0.00
#8 x1" P/H SELF-TAP SCREW	10	1.54	0.38
TY-525M TY-RAP (7")	12	3.31	0.90
TSGB16 ADJ BOX MTG BRKT	2	11.20	0.36
1P MAN DISC NEMA1	2	66.00	0.88
15A 1P BRKR BOLT-ON GFI 5mA	1	407.00	0.37
35A 3P BRKR BOLT-ON GFI 5mA	1	596.00	0.37
#12-2C+GRD 208V MOTOR TERM	2	10.00	1.26
EXIT EMGI	2	107.32	1.64
Totals	214	1,545.13	13.92

ORIGINAL

PROPOSED CHANGE ORDER

CCN # 1.2
Date: 11/7/2023
Project Name: Colchester Senior Center
Project Number: Colchester Senior Center
Page Number: 2

Electrical Services Group LLC

37 Townsend Avenue
New Haven, CT 06512

Client Address:

BRD Builders

Contact: Robert Lamarre
2099 Main Street
Hartford, CT 06120

Summary

General Materials		1,545.13
Material Total		1,545.13
JOURNEYMAN	(13.92 Hrs @ \$87.30)	1,215.22
Subtotal		2,760.35
Markup	(@ 10.000 %)	276.04
Subtotal		3,036.39
Final Amount		\$3,036.39

CONTRACTOR CERTIFICATION

Name: _____

Date: _____

Signature: _____

I hereby certify that this quotation is complete and accurate based on the information provided.

CLIENT ACCEPTANCE

CCN # 1.2

Final Amount: \$3,036.39

Name: _____

Date: _____

Signature: _____

Change Order #: _____

I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL

Ed Napolitano

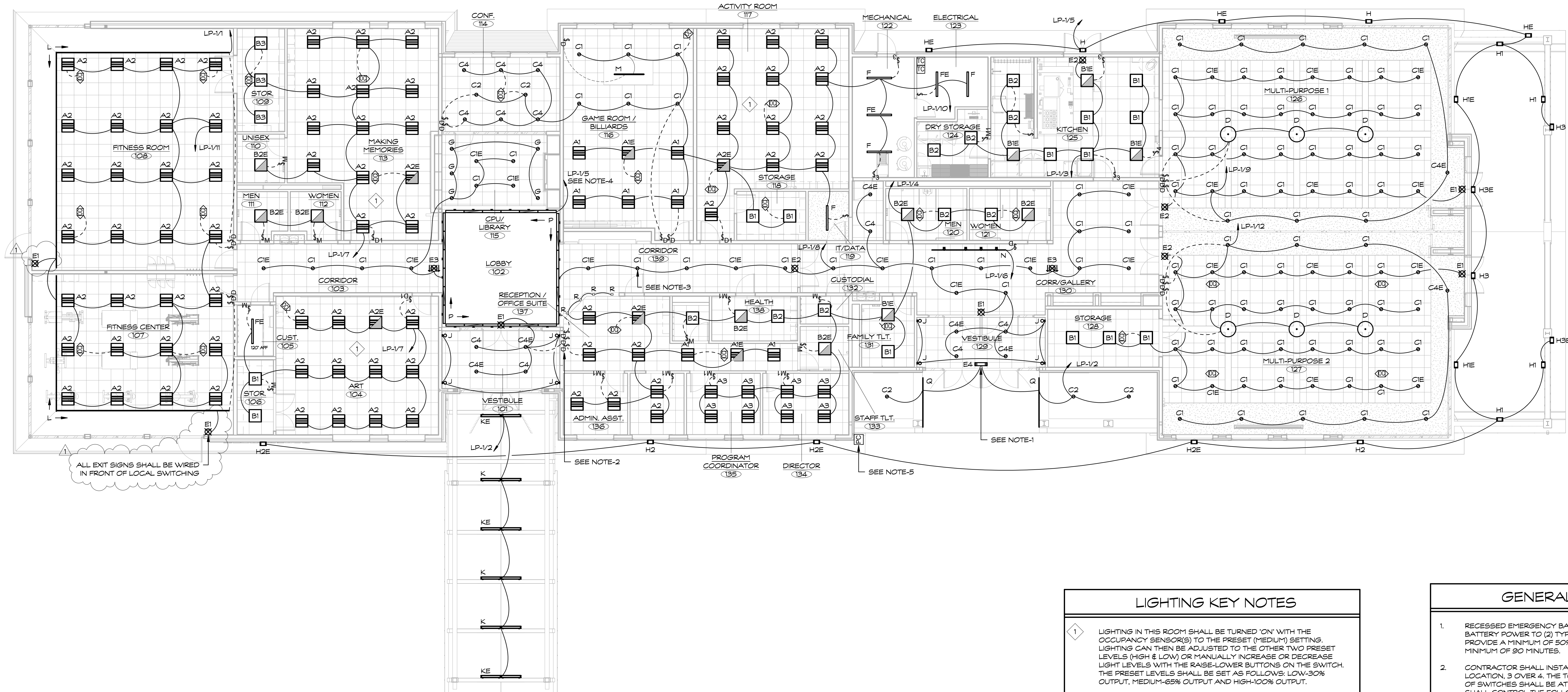
From: Chap Thomson <cthomson@beaconlightsupply.com>
Sent: Friday, October 20, 2023 6:55 AM
To: Bob Gagliardi
Subject: COLCHESTER SENIOR CENTER

Bob
The exit sign Compass # CU2SD @\$53.66EA
Chap Thomson
Senior Project Manager
860-527-8236
Ext: 2202



422 North Main St, Manchester CT 06042

The Beacon Light & Supply Company provides lighting and electrical supply goods, merchandise or products ("Supplies") and engineering start-up services and on-site storage services ("Services"). Beacon will only ship or deliver Supplies or provide Services subject to the Terms and Conditions available at www.beaconlightsupply.com/terms-and-conditions. Beacon does not agree or accept any Offers from Buyers unless Beacon issues a Purchase Order Confirmation signed by Jennifer Halligan or Robert Halligan. No Agent or Sales employee of Beacon has any authority to bind Beacon to any differing terms, guarantees, warranties, stipulations or conditions. Beacon's quotes or communications from agents or sales concerning prices or terms are for informational purposes only and to allow Buyer to issue Beacon a purchase order or Offer.



1 MAIN LEVEL LIGHTING PLAN
1/8" = 1'-0"

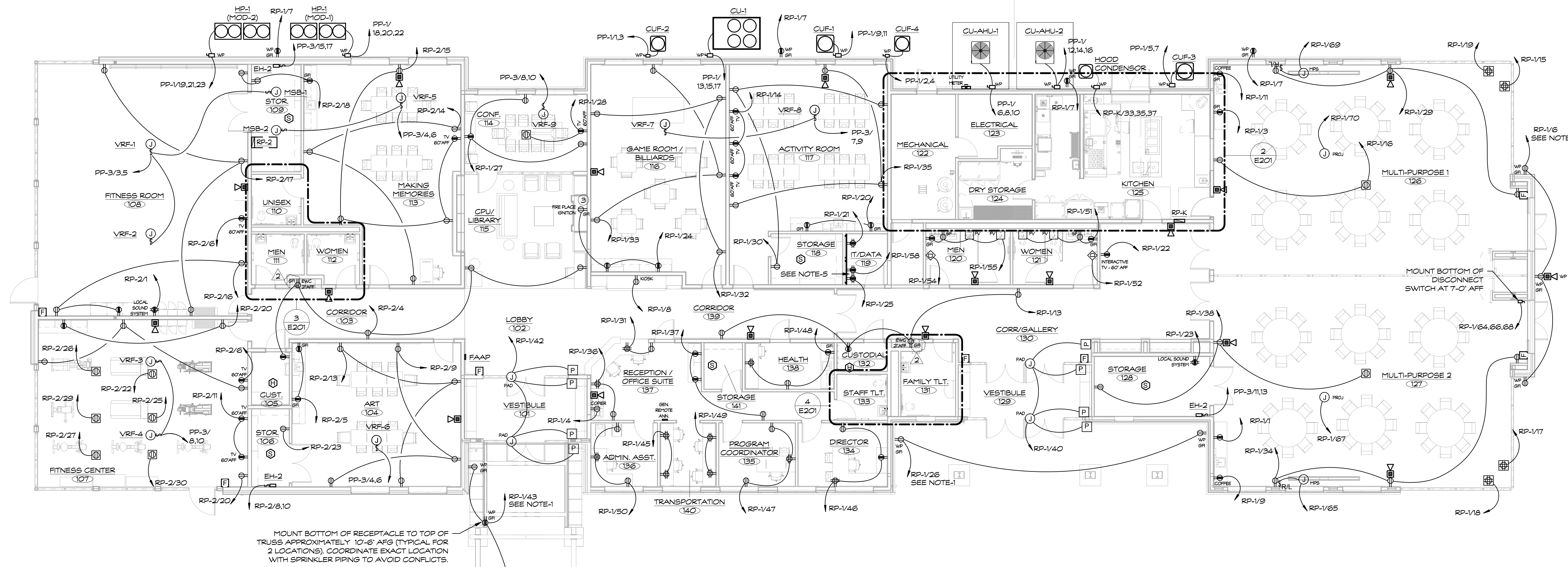
LIGHTING KEY NOTES

1. LIGHTING IN THIS ROOM SHALL BE TURNED ON WITH THE OCCUPANCY SENSOR(S) TO THE PRESET (MEDIUM) SETTING. LIGHTING CAN THEN BE ADJUSTED TO THE OTHER TWO PRESET LEVELS (HIGH & LOW) OR MANUALLY INCREASE OR DECREASE LIGHT LEVELS WITH THE RAISE-LOWER BUTTONS ON THE SWITCH. THE PRESET LEVELS SHALL BE SET AS FOLLOWS: LOW-30% OUTPUT, MEDIUM-65% OUTPUT AND HIGH-100% OUTPUT.

- GENERAL NOTES**
1. RECESSED EMERGENCY BATTERY SHALL PROVIDE EMERGENCY BATTERY POWER TO (2) TYPE 'Q' LIGHT FIXTURES. THIS SHALL PROVIDE A MINIMUM OF 90M OUTPUT OF BOTH FIXTURES FOR A MINIMUM OF 90 MINUTES.
 2. CONTRACTOR SHALL INSTALL (7) DIMMER SWITCHES IN THIS LOCATION. 3 OVER 4. THE TOP OF THE HANDLE OF THE UPPER ROW OF SWITCHES SHALL BE AT 48". THE UPPER ROW OF SWITCHES SHALL CONTROL THE FOLLOWING LIGHTS (SWITCH #1 - ALL 2x2s IN RECEPT/OFFICE, SWITCH #2 - ALL CORRIDOR & BOTH VESTIBULE DOWN LIGHTS PLUS TYPE 'C1' & 'C1E' IN THE LIBRARY, SWITCH #3 - TYPE 'J' FIXTURES IN BOTH VESTIBULES), THE LOWER ROW OF SWITCHES SHALL CONTROL THE FOLLOWING LIGHTS (SWITCH #1 - TYPE 'P' UPLIGHTS, SWITCH #2 - TYPE 'P' DOWNLIGHTS, SWITCH #3 - TYPE 'S' FIXTURES IN LIBRARY 115, SWITCH #4 - TYPE 'R' MICRO DOWN LIGHTS IN SOFFIT OF RECEPTION DESK).
 3. ALL CORRIDOR & VESTIBULE DOWN LIGHTS, VESTIBULE SCONGES AND DOWN LIGHT PORTION OF TYPE 'P' FIXTURES ARE TO BE ENERGIZED (TURNED ON/OFF) BY A TIME CLOCK LOCATED IN THE ELECTRICAL ROOM. THE LIGHTS SHOULD COME ON 20 MINUTES BEFORE THE BUILDING IS SCHEDULED TO OPEN AND TURN OFF 30 MINUTES AFTER THE BUILDING IS SCHEDULED TO CLOSE (COORDINATE EXACT TIMES WITH OWNER). THE LIGHT OUTPUT OF THESE FIXTURES ARE TO BE CONTROLLED BY DIMMER SWITCHES LOCATED IN THE RECEPT/OFFICE AS INDICATED IN NOTE #2 ABOVE.
 4. THE UP LIGHT PORTION OF THE TYPE 'P' FIXTURES SHALL BE ENERGIZED (TURNED ON/OFF) BY A DAY LIGHT SENSOR AND TIME CLOCK. THE DAY LIGHT SENSOR SHALL BE LOCATED IN THE LOBBY TOWER BELOW THE WINDOWS WHICH WILL TURN THE LIGHTS ON. THE TIME CLOCK WILL BE LOCATED IN THE ELECTRICAL ROOM WHICH WILL TURN THE LIGHTS OFF AT A PRESET TIME (CONFIRM WITH OWNER).
 5. CONTRACTOR SHALL INSTALL PHOTOCELL TO THE FACE OF THE ROOF OVERHANG TO CONTROL (TURN ON) THE TYPE 'C2' & 'Q' LIGHT FIXTURES OUTSIDE OF VESTIBULE 101, TYPE 'K' & 'KE' OUTSIDE OF VESTIBULE 101 AND ROPE MOUNTED SITE LIGHT FIXTURES. THESE LIGHTS WILL BE TURNED OFF BY A SECOND OUTPUT OF THE TIME CLOCK SERVING THE TYPE 'P' UPLIGHTS.



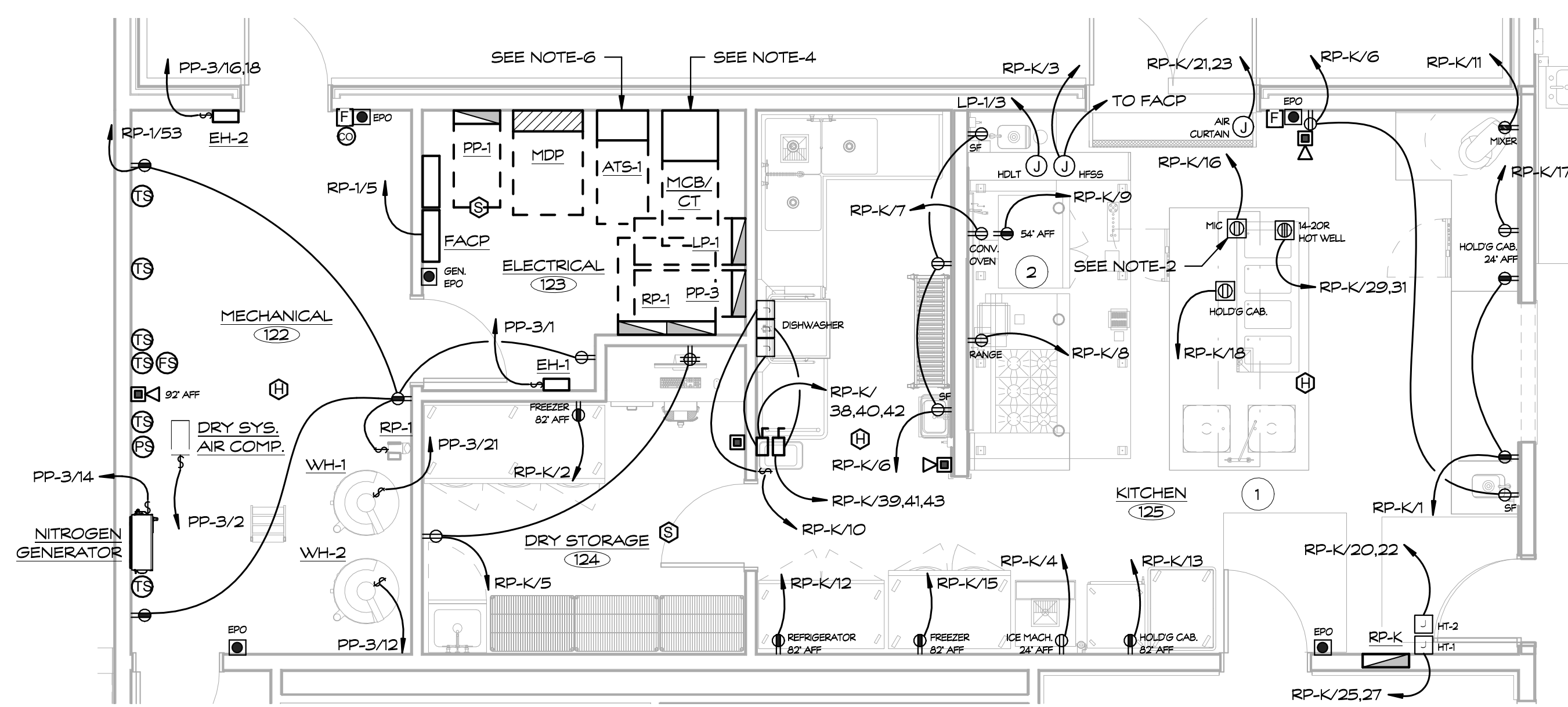
Revision:	Description:	Date:	Revised By:
1	ISSUED FOR BID	09/09/2022	
2	CODE REQUIREMENT	04/14/2023	



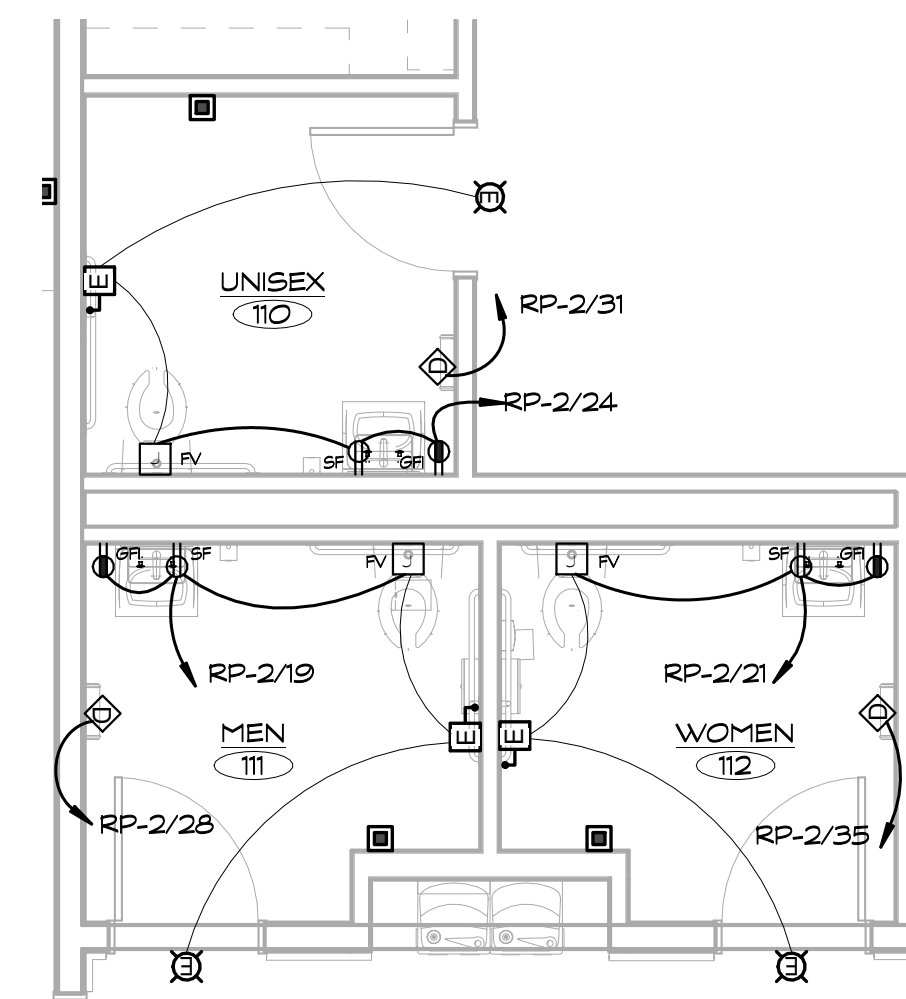
1 MAIN LEVEL POWER PLAN
1/8" = 1'-0"

- ### ELECTRICAL POWER KEY NOTES
- ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS AT 50 AMPS OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS AT 100 AMPS OR LESS INSTALLED IN THE KITCHEN SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC 210.8-B. ALL DEVICES LOCATED UNDER THE KITCHEN HOOD SHALL BE FED FROM A GFCI BREAKER INSTEAD OF THE DEVICE TO ALLOW THE ABILITY TO RESET A TRIPPED CIRCUIT. ALL WALL MOUNTED RECEPTACLES IN THE KITCHEN SHALL BE MOUNTED HORIZONTALLY. IN ADDITION TO GFCI PROTECTION, ALL RECEPTACLES IN THE KITCHEN/DISHWASH AREA ARE ALSO TO BE WEATHER-RESISTANT TYPE DEVICES.
 - ALL ELECTRICAL CONNECTIONS UNDER THE HOOD SHALL BE SERVED BY A SHUNT-TRIP CIRCUIT BREAKER SERVING THE COIL OF A 4-POLE CONTACTOR. SO UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM OR THE 'EPO' SWITCHES THESE CONNECTIONS WILL BE DE-ENERGIZED.
 - CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH APPROVED FIRE PLACE SUBMITTAL. IF A POWER VENTILATOR (EXHAUST) FAN IS REQUIRED, POWER BOTH THE IGNITION RECEPTACLE AND THE FAN FROM A DEDICATED 20 AMP - 1 POLE CIRCUIT BREAKER IN PANEL 'RP-1'.

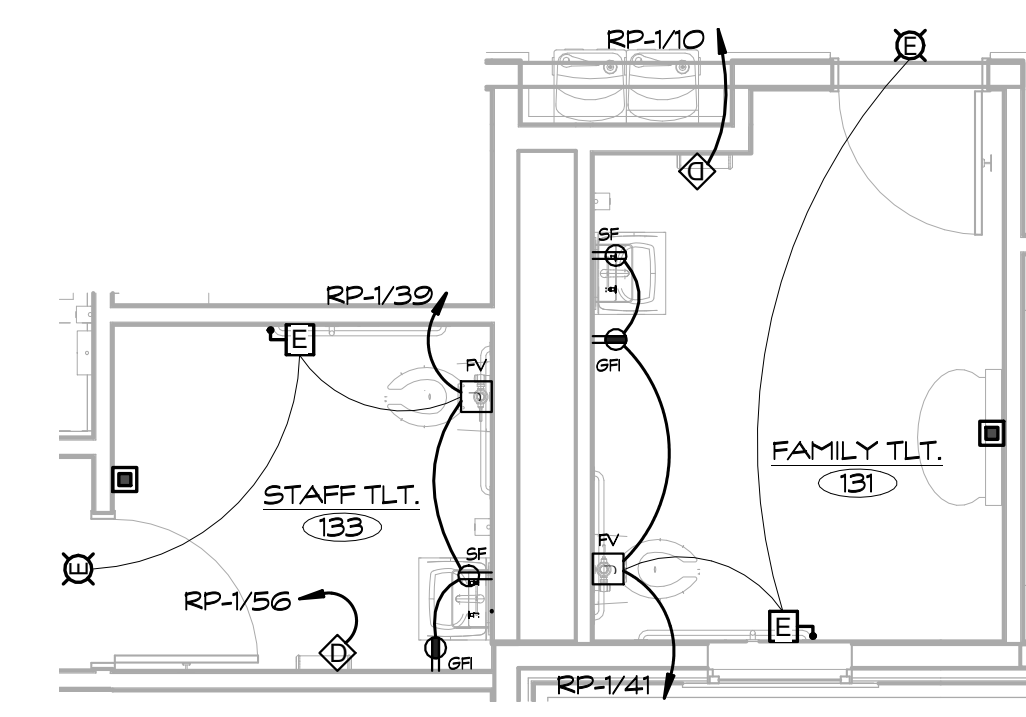
- ### GENERAL NOTES
- CONTRACTOR SHALL FURNISH AND INSTALL A 6-POLE CONTACTOR AND 7 DAY ASTRONOMICAL TIME CLOCK TO CONTROL EXTERIOR RECEPTACLES AT FOUR LOCATIONS (MAIN ENTRY PATIO, SOUTH WEST ENTRY, COVERED PORCH AREA & PATIO). RECEPTACLES WILL ONLY BE OPERATIONAL DURING SET HOURS CONTROLLED BY THE CLOCK AND CONTACTOR.
 - IN ADDITION TO THE FLOOR RECEPTACLE SHOWN, CONTRACTOR SHALL FURNISH AND INSTALL A MATCHING RECEPTACLE TO THE UNDERSIDE OF THE SHELF WHERE THE MICROWAVE IS TO BE INSTALLED. THIS RECEPTACLE SHALL HAVE A SIX FOOT CORD & PLUG TO PLUG INTO THE FLOOR RECEPTACLE.
 - ALL RECEPTACLES IN THE KITCHEN THAT REQUIRE GFCI PROTECTION THAT SERVE EQUIPMENT THAT CAN NOT BE EASILY MOVED TO RESET THE TRIP SHALL BE SERVED BY A GFCI PROTECTED BREAKER NOT A RECEPTACLE.
 - CONTRACTOR SHALL FURNISH AND INSTALL A SIGN MOUNTED ON OR ADJACENT TO THE SERVE ENTRANCE MAIN SWITCH, INDICATING THE GENERATOR AND ITS LOCATION PER NEC 700.7.
 - CONTRACTOR SHALL COORDINATE LOCATION OF OUTLETS WITH NETWORK CABINET. CONFIRM WITH I.T. CONTRACTOR IF THE PREFERRED LOCATION IS WITHIN THE CABINET OR BELOW IT AND INSTALL THEM IN THAT LOCATION.
 - CONTRACTOR SHALL LEAVE SPACE BETWEEN 'MCB' AND 'MDP' IF GENERATOR ADD ALTERNATE IS NOT APPROVED, ALLOWING FOR FUTURE ATS TO BE INSTALLED IN THIS LOCATION.
 - ALL RECEPTACLES LOCATED IN 'WET AND DAMP' LOCATIONS NEED TO BE WEATHER-RESISTANT TYPE PER NEC.
 - IN ADDITION TO REQUIREMENTS IN SPECIFICATION SECTION 260553, ALL DISCONNECT SWITCHES SHALL BE LABELED CLEARLY WITH THE EQUIPMENT THEY SERVE (AHU-1, P-1, ETC.) AND THE BRANCH CIRCUIT THAT SERVES THE SWITCH (RP-K/39,40,42, RP-2/6, ETC.).



2 ENLARGED PLAN - KITCHEN/ELEC./MECH.
1/4" = 1'-0"



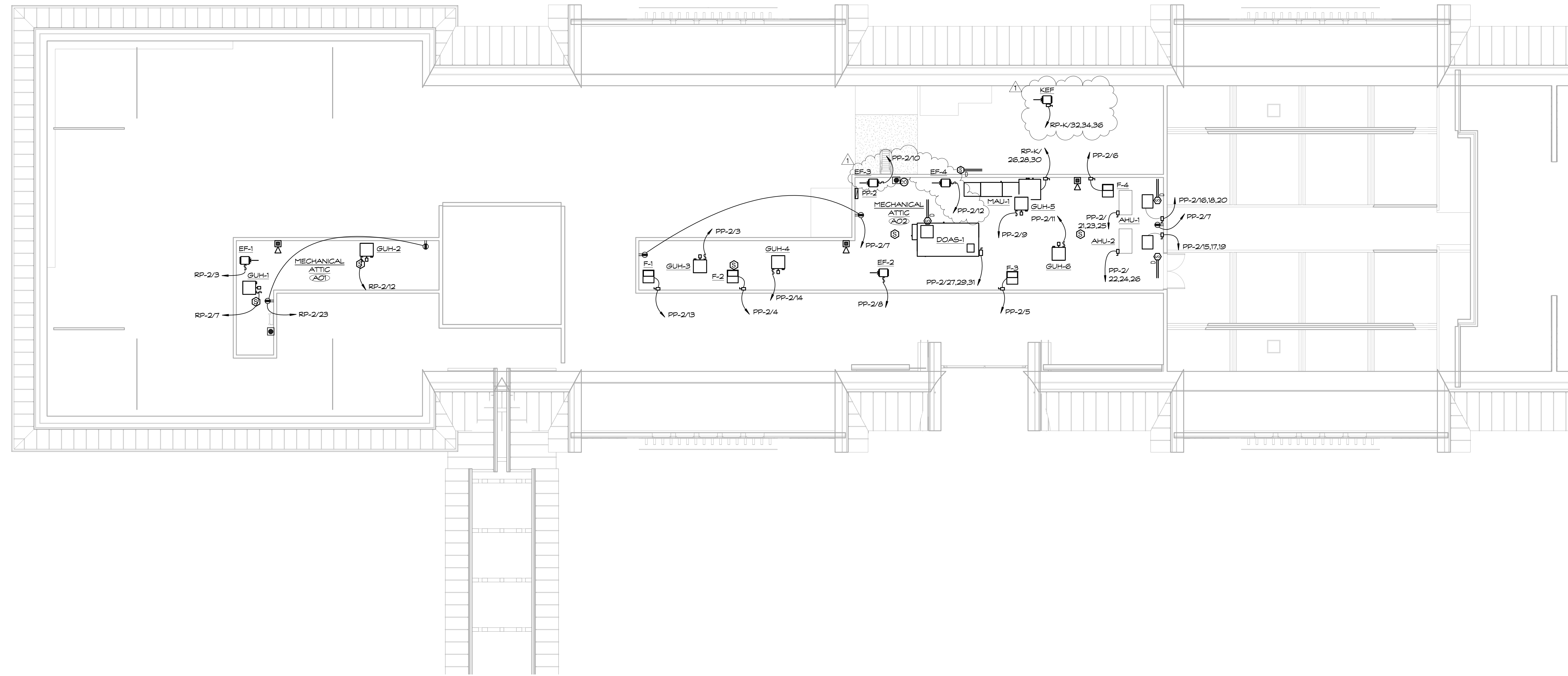
3 ENLARGED TOILET PLAN
1/4" = 1'-0"



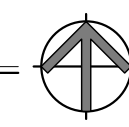
4 ENLARGED STAFF TOILET PLAN
1/4" = 1'-0"



Revision:	Description:	Date:	Revised By:
1	ISSUED FOR BID	09/09/2022	
2	ADDENDUM 2	10/06/2022	
3	CODE REQUIREMENT	04/14/2023	



1 ATTIC LEVEL POWER PLAN
1/8" = 1'-0"



Project Title:
Colchester Senior Center
Town of Colchester
15 Louis Lane
Colchester, CT 06415



SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	ISSUED FOR BID	09/09/2022	
2	CODE REQUIREMENT	04/14/2023	

Drawing Title:
ATTIC PLAN - POWER

Date: SEPTEMBER 09, 2022
Scale: 1/8" = 1'-0"
Drawn By: SEC
Project Number: 202003
Drawing Number: E202

Switchboard: MDP						
Location: ELECTRICAL 123		Volts: 120/208 Wye		A.I.C. Rating: 65,000		
Supply From: MDP		Phases: 3		Mains Type: MLO		
Mounting: WALL		Wires: 4		Mains Rating: 800 A		
Enclosure:				MCB Rating: 800 A		
Notes:						
CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PP-1	3	400 A	400 A	111984 VA	
2	PP-2	3	225 A	150 A	25704 VA	
3	RP-1	3	225 A	225 A	62569 VA	
4	RP-2	3	225 A	150 A	30343 VA	
5	RP-K	3	225 A	225 A	53526 VA	
6	LP-1	3	100 A	100 A	12098 VA	
7	PP-3	3	100 A	100 A	14729 VA	
8	Spare	3	225 A	225 A	0 VA	
9	Spare	3	100 A	100 A	0 VA	
10	Space	3	--	--	--	
11	Space	3	--	--	--	
12	Space	3	--	--	--	
13						
14						
15						
16						
17						
18						
19						
20						
					Total Conn. Load:	310943 VA
					Total Amps:	863 A
Legend:						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
Appliance - Dwelling Unit	12075 VA	75.00%	9056 VA	Total Conn. Load: 310943 VA		
Lighting	8609 VA	125.00%	10761 VA	Total Est. Demand: 307298 VA		
Other	29892 VA	101.74%	30412 VA	Total Conn. Current: 863 A		
Power	243772 VA	100.00%	243772 VA	Total Est. Demand Current: 853 A		
Receptacle	16596 VA	80.13%	13298 VA			
Notes:						

Branch Panel: PP-1													
Location: ELECTRICAL 123				Volts: 120/208 Wye				A.I.C. Rating: 22,000					
Supply From: MDP				Phases: 3				Mains Type: MLO					
Mounting: Surface				Wires: 4				Mains Rating: 400 A					
Enclosure: Type 1								MCB Rating:					
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
1	CUF-2	--	25 A	2	1768	1768			2	25 A	CUF-4	2	
3	--	--	--	--		1768	1768		--	--	--	4	
5	CUF-3	--	35 A	2			2288	3840	3	40 A	CU-AHU-1	6	
7	--	--	--	--	2288	3840			--	--	--	8	
9	CUF-1	--	35 A	2		2288	3840		--	--	--	10	
11	--	--	--	--			2288	3840	3	40 A	CU-AHU-2	12	
13	CU-1	--	80 A	3	7560	3840			--	--	--	14	
15	--	--	--	--		7560	3840		--	--	--	16	
17	--	--	--	--			7560	8340	3	80 A	HP-1 (MOD-1)	18	
19	HP-1 (MOD-2)	--	80 A	3	8340	8340			--	--	--	20	
21	--	--	--	--		8340	8340		--	--	--	22	
23	--	--	--	--			8340		--	--	--	24	
25												26	
27												28	
29												30	
31												32	
33												34	
35												36	
37												38	
39												40	
41												42	
					Total Load:	37744 VA	37744 VA	36496 VA					
					Total Amps:	316 A	316 A	304 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Power	111984 VA	100.00%	111984 VA	Total Conn. Load: 111984 VA									
				Total Est. Demand: 111984 VA									
				Total Conn. Current: 311 A									
				Total Est. Demand Current: 311 A									
Notes:													

Branch Panel: PP-2													
Location: MECHANICAL ATTIC A02				Volts: 120/208 Wye				A.I.C. Rating: 22,000					
Supply From: MDP				Phases: 3				Mains Type: MLO					
Mounting: Surface				Wires: 4				Mains Rating: 125 A					
Enclosure: Type 1								MCB Rating:					
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
1	Spare	--	20 A	1	0	0			1	15 A	Spare	2	
3	GUH-3	--	15 A	1		864	1440		1	15 A	F-2	4	
5	F-3	--	15 A	1			1440	1440	1	15 A	F-4	6	
7	Receptacles	--	20 A	1	540	696			1	15 A	EP-2	8	
9	GUH-5	--	15 A	1		864	696		1	15 A	EP-3	10	
11	GUH-6	--	15 A	1			864	696	1	15 A	EP-4	12	
13	F-1	--	15 A	1	1440	864			1	15 A	GUH-4	14	
15	Duct Furnace (1/2 HP)	--	15 A	3		264	264		3	15 A	Duct Furnace (1/2 HP)	16	
17	--	--	--	--			264	264	--	--	--	18	
19	--	--	--	--	264	264			--	--	--	20	
21	AHU-1	--	15 A	3		840	840		3	15 A	AHU-2	22	
23	--	--	--	--			840	840	--	--	--	24	
25	--	--	--	--	840	840			--	--	--	26	
27	DOAS-1	--	25 A	3		2412						28	
29	--	--	--	--			2412					30	
31	--	--	--	--	2412							32	
33												34	
35												36	
37												38	
39												40	
41												42	
					Total Load:	8160 VA	8484 VA	9050 VA					
					Total Amps:	88 A	71 A	76 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Other	5544 VA	103.90%	5760 VA	Total Conn. Load: 25704 VA									
Power	20160 VA	100.00%	20160 VA	Total Est. Demand: 25920 VA									
				Total Conn. Current: 71 A									
				Total Est. Demand Current: 72 A									
Notes:													

Branch Panel: PP-3													
Location: ELECTRICAL 123				Volts: 120/208 Wye				A.I.C. Rating: 22,000					
Supply From: MDP				Phases: 3				Mains Type: MLO					
Mounting: Surface				Wires: 4				Mains Rating: 100 A					
Enclosure: Type 1								MCB Rating: 1 A					
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
1	EH-1	--	15 A	1	1000	1176			1	20 A	Dry System Air Comp.	2	
3	VRF-1, VRF-2 & MSB-1	--	15 A	2		540	557		2	15 A	VRF-5, VRF-6 & MSB-2	4	
5	--	--	--	--			540	557	--	--	--	6	
7	VRF-7 & VRF-8	--	15 A	2	354	656			2	15 A	VRF-3, VRF-4 & VRF-9	8	
9	--	--	--	--		354	656		--	--	--	10	
11	EH-2	--	15 A	2		1040	700		1	15 A	WH-2	12	
13	--	--	--	--	1040	700			1	15 A	Nitrogen Generator	14	
15	EH-2	--	15 A	2		1040	1040		2	15 A	EH-2	16	
17	--	--	--	--			1040	1040	--	--	--	18	
19	Spare	--	20 A	1	0	0			2	15 A	Spare	20	
21	WH-1	--	15 A	1		700	0		--	--	--	22	
23	--	--	--	--			0		1	15 A	Spare	24	
25												26	
27												28	
29												30	
					Total Load:	4926 VA	4887 VA	4917 VA					
					Total Amps:	41 A	41 A	41 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Other	14729 VA	103.53%	15249 VA	Total Conn. Load: 14729 VA									
				Total Est. Demand: 15249 VA									
				Total Conn. Current: 41 A									
				Total Est. Demand Current: 42 A									
Notes:													

Branch Panel: LP-1													
Location: ELECTRICAL 123				Volts: 120/208 Wye				A.I.C. Rating: 22,000					
Supply From: MDP				Phases: 3				Mains Type: MLO					
Mounting: Surface				Wires: 4				Mains Rating: 100 A					
Enclosure: Type 1								MCB Rating:					
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
1	Cove & Track Lighting	--	20 A	1	244	1098			1	20 A	Lighting	2	
3	Lighting	--	20 A	1		649	971		1	20 A	Lighting	4	
5	Lighting	--	20 A	1			892	900	1	20 A	Track Lighting	6	
7	Lighting	--	20 A	1	1412	1487			1	20 A	Lighting	8	
9	Lighting	--	20 A	1		950	1325		1	20 A	Lighting	10	
11	Lighting	--	20 A	1			1120	1040	1	20 A	Lighting	12	
13	Spare	--	20 A	1	0	0			1	20 A	Spare	14	
15												16	
17												18	
19												20	
21												22	
23												24	
					Total Load:	4242 VA	3895 VA	3952 VA					
					Total Amps:	35 A	32 A	33 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Lighting	8609 VA	125.00%	10761 VA	Total Conn. Load: 12088 VA									
Other	2430 VA	107.20%	2605 VA	Total Est. Demand: 14415 VA									
Power	1050 VA	100.00%	1050 VA	Total Conn. Current: 34 A									
				Total Est. Demand Current: 40 A									
Notes:													



Branch Panel: RP-1												
Location: ELECTRICAL 123				Volts: 120/208 Wye				A.I.C. Rating: 22,000				
Supply From: MDP				Phases: 3				Mains Type: MLO				
Mounting: Surface				Wires: 4				Mains Rating: 225 A				
Enclosure: Type 1								MCB Rating: 1 A				
Notes:												
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT
1	Receptacle		20 A	1	180	540		1	20 A		Exterior Patio Recept.	2
3	Receptacle		20 A	1		180	1000		20 A		Recept. (Copier)	4
5	FACP		20 A	1					20 A		Exterior Recept.	6
7	Exterior Recept.		20 A	1	720	840			20 A		Recept. (Kiosk)	8
9	Recept. (Coffee Maker)		20 A	1		1500	1725		20 A		Hand Dryer	10
11	Recept. (Coffee Maker)		20 A	1			1500	1800	20 A		Gen. Block Heater	12
13	Receptacles		20 A	1	1044	1080			20 A		Recept. (TV's)	14
15	Receptacles		20 A	1		360	360		20 A		Receptacles	16
17	Receptacles		20 A	1			360	360	20 A		Receptacles	18
19	Receptacles		20 A	1	360	360			20 A		Receptacles	20
21	Receptacles		20 A	1		360	360		20 A		Recept. (TV)	22
23	Receptacles		20 A	1			360	540	20 A		Receptacles	24
25	Receptacles		20 A	1	360	360			20 A		Exterior Recept.	26
27	Receptacles		20 A	1		540	540		20 A		Receptacles	28
29	Receptacles		20 A	1			540	540	20 A		Receptacles	30
31	Receptacles		20 A	1	540	540			20 A		Receptacles	32
33	Receptacles		20 A	1		540	540		20 A		Receptacles	34
35	Receptacles		20 A	1			540	540	20 A		Receptacles	36
37	Receptacles		20 A	1	540	540			20 A		Receptacle	38
39	Recept., C.F.A., SF & FV		20 A	1		540	600		20 A		Junction Box (PAD)	40
41	Recept., C.F.A., SF & FV		20 A	1			540	600	20 A		Junction Box (PAD)	42
43	Exterior/Partico Recept.		20 A	1	540	600			20 A		Gen. Battery Charger	44
45	Receptacles		20 A	1		720	720		20 A		Receptacles	46
47	Receptacles		20 A	1			720	720	20 A		Receptacles	48
49	Receptacles		20 A	1	720	720			20 A		Receptacles	50
51	Recept., SF & FV's		20 A	1		720	1725		20 A		Hand Dryer	52
53	Receptacles		20 A	1			765	1725	20 A		Hand Dryer	54
55	Recept., SF & FV's		20 A	1	720	1725			20 A		Receptacle	56
57	EVC Station		40 A	2	--		3120	360	40 A		EVC Station	58
59	--		--	--	--		3120	3120	2	40 A	--	60
61	EVC Station		40 A	2	3120	3120			--	--	--	62
63	--		--	--	--	3120	480		3	20 A	Motorized Partition	64
65	JB (Mol. Screen)		20 A	1				900	480	--	--	66
67	JB (Projector & Platform)		20 A	1	500	490			--	--	--	68
69	JB (Mol. Screen)		20 A	1		900	500		20 A		JB (Projector & Platform)	70
71												72
73												74
75												76
77												78
79												80
81												82
83												84
					Total Load:	20249 VA	21510 VA	20810 VA				
					Total Amps:	169 A	180 A	174 A				
Legend:												
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Other	1985 VA	106.30%	2110 VA									
Power	52964 VA	100.00%	52964 VA	Total Conn. Load: 62569 VA								
Appliance - Dwelling Unit	6900 VA	75.00%	5175 VA	Total Est. Demand: 60969 VA								
Receptacle	720 VA	100.00%	720 VA	Total Conn. Current: 174 A								
				Total Est. Demand Current: 169 A								
Notes:												

Branch Panel: RP-2												
Location: STOR. 109				Volts: 120/208 Wye				A.I.C. Rating: 22,000				
Supply From: MDP				Phases: 3				Mains Type: MLO				
Mounting: Surface				Wires: 4				Mains Rating: 225 A				
Enclosure: Type 1								MCB Rating:				
Notes:												
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT
1	Recept (Sound Sys.)		20 A	1	360	540			20 A		Power	2
3	EF-1		15 A	1		696	1224		1	20 A	Receptacles	4
5	Receptacles		20 A	1			360	720	1	20 A	Recept. (TV's)	6
7	GUH-1		15 A	1	864	1040			2	15 A	EH-2	8
9	Receptacles		20 A	1		540	1040		--	--	--	10
11	Recept. (TV's)		20 A	1			720	864	1	15 A	GUH-2	12
13	Receptacles		20 A	1	540	540			1	20 A	Receptacles	14
15	Receptacles		20 A	1		900	540		1	20 A	Receptacles	16
17	Receptacles		20 A	1			540	540	1	20 A	Receptacles	18
19	Recept., C.F.A., SF & FV		20 A	1	540	540			1	20 A	Power	20
21	Recept., C.F.A., SF & FV		20 A	1		540	1650		1	20 A	Floor Recept. (Tread.)	22
23	Receptacles		20 A	1			540	540	1	20 A	Recept., C.F.A., SF & FV	24
25	Floor Recept. (Tread.)		20 A	1	1650	1650			1	20 A	Floor Recept. (Ellipt.)	26
27	Floor Recept. (RC)		20 A	1		1650	1725		1	20 A	Hand Dryer	28
29	Floor Recept. (UBE)		20 A	1			1650	1650	1	20 A	Floor Recept. (SB)	30
31	Hand Dryer		20 A	1	1725							32
33												34
35	Hand Dryer		20 A	1			1725					36
37												38
39												40
41												42
					Total Load:	9989 VA	10505 VA	9849 VA				
					Total Amps:	83 A	88 A	82 A				
Legend:												
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Other	4504 VA	111.55%	5024 VA									
Power	10584 VA	100.00%	10584 VA	Total Conn. Load: 30343 VA								
Appliance - Dwelling Unit	5175 VA	100.00%	5175 VA	Total Est. Demand: 30823 VA								
Receptacle	10080 VA	99.60%	10040 VA	Total Conn. Current: 84 A								
				Total Est. Demand Current: 86 A								
Notes:												

Branch Panel: RP-K													
Location: KITCHEN 125				Volts: 120/208 Wye				A.I.C. Rating: 22,000					
Supply From: MDP				Phases: 3				Mains Type: Shunt Trip Breaker					
Mounting: Recessed				Wires: 4				Mains Rating: 225 A					
Enclosure: Type 1								MCB Rating: 225 A					
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
1	Receptacles		20 A	1	360	732			1	15 A	Recept. (Freezer)	2	
3	JB (HFSS)		20 A	1		500	840		1	15 A	Recept. (Ice Mach.)	4	
5	Receptacles		20 A	1			540	900	1	20 A	Receptacles	6	
7	Recept. (Conv. Oven)		15 A	1	924	960			1	15 A	Recept. (Range)	8	
9	Recept. (Conv. Oven)		15 A	1		924	1014		1	15 A	Dishwasher	10	
11	Recept. (Mixer)		15 A	1			960	1044	1	15 A	Recept. (Refrig.)	12	
13	Recept. (Hold'g Cab.)		20 A	1	1920	0			1	15 A	Spare	14	
15	Recept. (Freezer)		15 A	1		1128	1608		1	20 A	Recept. (Microwave)	16	
17	Recept. (Hold'g Cab.)		20 A	1			1692	1692	1	20 A	Recept. (Hold'g Cab.)	18	
19	Spare		20 A	1	0	900			2	30 A	JB (HT-2)	20	
21	JB (Air Curtain)		20 A	2		146	900		--	--	--	22	
23	--		--	--	--			146	0	1	20 A	Spare	24
25	JB (HT-1)		30 A	2	1200	660			3	15 A	MAU-1	26	
27	--		--	--	--	1200	660		--	--	--	28	
29	Recept. (Hot Well)		20 A	2			1248	660	--	--	--	30	
31	--		--	--	--	1248	780		3	15 A	KEF	32	
33	Hood Condensor		20 A	3		1740	780		--	--	--	34	
35	--		--	--	--		1740	780	--	--	--	36	
37	--		--	--	--	1740	3192		3	35 A	Dishwasher	38	
39	Dishwasher		35 A	3		3228	3192		--	--	--	40	
41	--		--	--	--		3228	3192	--	--	--	42	
43	--		--	--	--	3228			--	--	--	44	
45												46	
47												48	
49												50	
51												52	
53												54	
55												56	
57												58	
59												60	
					Total Load:	17844 VA	17860 VA	17822 VA					
					Total Amps:	149 A	149 A	149 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Other	700 VA	125.00%	875 VA										
Power	47030 VA	100.00%	47030 VA	Total Conn. Load: 53526 VA									
Receptacle	5796 VA	100.00%	5796 VA	Total Est. Demand: 53701 VA									
				Total Conn. Current: 149 A									
Notes:													
ALL BREAKERS SERVING HEAT TRACE AND DISHWASHING EQUIPMENT SHALL BE GFI TYPE BREAKERS.													

Project Title:
Colchester Senior Center
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