Howard T. Phillips, Jr.
Chairman

Gerard M. Damiani, Jr.
Executive Director

Rockland County Solid Waste Management Authority

RFP 2025-02
REQUEST FOR PROPOSALS
FOR THE
RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS
AND
CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE
AT
172 MAIN STREET IN NANUET, NY 10954

To:	All Potential Proposers
From:	Rockland Green
Subject:	Addendum Number 3
Project:	Rockland Green Renovation & New Immersive Theatre Experience at 172 Main Street, Nanuet, NY 10954
RFP No.:	RFP 2025-02
Date:	April 10, 2025

This Addendum Number 3 is issued to modify the Request for Proposals No. 2025-02 (the "RFP") for the above referenced project. All potential Proposers are hereby notified of the following change:

1. Bids

SEALED BIDS will be received until 2:00 PM. in the office of the Executive Director, on the 25th of April 2025, at the Rockland Green Administrative Headquarters, 172 Main Street Nanuet, NY 10954, at which time and place they will be publicly opened and read. Faxed bids will NOT be accepted. One (1) original proposal with five (5) paper copies and one (1) electronic copy on an external drive must be in sealed envelope(s) with the proposer's name title of the RFP. Sealed envelope(s) must be approximately labeled with the following label:
"RFP-2025-02 Enclosed"

2**. Contractor Questions**

Following issuance of this RFP, the Proposers may submit written questions to Rockland Green to assist the Proposers in the preparation of their Proposals. Rockland Green may, but shall not be obligated to, respond to such questions. All responses to any questions and requests for additional information which Rockland Green determines to be deserving of response will be issued to all potential Proposers of record in the form of addenda to this RFP which will be issued via email. The last day for submission of written questions have been extended from April 4th to April

17th. Any questions submitted after the deadline for questions may be answered by Rockland Green at its discretion.

No oral interpretation, instruction, or information concerning this RFP given by any agent, employee, advisor, or consultant of Rockland Green shall be binding on Rockland Green. Proposers relying on such oral information risk having their response to this RFP deemed unresponsive by Rockland Green. Rockland Green will not be responsible for any explanation or interpretation of this RFP, unless such explanation or interpretation of this RFP is given in accordance with this written procedure.

Should a Proposer find discrepancies in, or omissions from, this RFP, the Proposer shall immediately notify Rockland Green, in writing, and a written addendum, if necessary, will be delivered to each Proposer.

All inquiries, correspondence, questions or clarifications shall be directed to:

Ryan Montal, Confidential Assistant to Executive Director
Rockland Green
172 Main Street
Nanuet, NY 10954
Email: rmontal@rocklandgreen.com

With a copy to:

John Cirilli, AIA, LEED
Partner
Michael Shilale Architects, LLP.
Email: jcirilli@shilale.com

Except as set forth in this section with regard to procedures for inquiries, correspondence, questions or clarifications, in order to ensure fairness during the procurement process as of the date this RFP is released to the public and throughout the procurement process and negotiations of a Contract, Proposers or their employees, representatives or agents shall not contact any Rockland Green Board member, any Rockland Green employee (other than Ryan Montal or a designated Rockland Green employee or such other individual as instructed by Rockland Green), or any of Rockland Green's technical or legal consultants.

If a Proposer or its employee, representative or agent contacts a Rockland Green Board member, any Rockland Green employee (other than Ryan Montal or a designated Rockland Green employee or such other individual as instructed by Rockland Green), or any of Rockland Green's technical or legal consultants in relation to this RFP, such Proposer risks either being disqualified from submitting a Proposal in response to this RFP or having its Proposal rejected by Rockland Green.

3. Revised Drawings

As per attachment 1 see the following revised drawings.

- P002 Revised Gas Load Schedule, Usage (CFH) for DOAS and Total updated.
- M002 Revised Ventilation Schedule to show correct airflow ratings as per code, rearranged schedule so rooms are labelled in order. Revised Dedicated Outdoor Air System Schedule to ensure adequate outside air ventilation is provided.
- M003 Revised Indoor VRF unit schedule, Outdoor VRF Unit Schedule and VRF Heat Recovery Branch Circuit Controller to ensure adequate cooling for the Conference Room.
- M102 Revised Second Floor Plan Piping Layout to ensure adequate cooling is provided for the Conference Room.
- M201 Revised duct layout on First Floor, added return registers in various locations, added fire dampers at fire rated partitions and added General Notes to clarify the work.
- M202 Revised duct layout on Floor to ensure adequate ventilation is provided throughout. Separated duct connections at indoor cassette and added supply diffusers and return registers throughout. Duct sizes are corrected and added General Notes to clarify the work.
- M301 Added Exhaust Air Riser Diagram for all Toilet Exhausts. Revised Ventilation Air Riser Diagram to include all room names and airflow rates.
- M302 Revised VRF Piping Riser Diagram to match floor plans and schedules.
- E001 Revised Communication Symbol list.
- E101 Revised floor plan to include revisions coordinated with Theater, Solar, and Mechanical changes.
- E111 Revised floor plan to include revisions coordinated with mechanical changes.
- E102 Revised floor plan to include revisions coordinated with Solar and mechanical changes.
- E112 Revised floor plan to include revisions coordinated with mechanical changes.
- E103 Revised floor plan to include revisions coordinated with Solar and mechanical changes.
- E104 Revised floor plan to include revisions coordinated with Site design.
- E201 Revised note to include lighting control revisions coordinated with Theater design.
- E203 Revised lighting control design for coordination with theater/exhibit lighting.
- E302 Revised data riser diagram for coordination with floor plan revisions.
- E401 Revised panel schedule to include revisions coordinated with mechanical changes.
- E402 Revised panel schedule to include revisions coordinated with mechanical and theater changes.
- FA001 Revised symbol list to include door holders.
- FA002 Revised riser diagram to include door holders.

FA101 Revised floor plan to include door holders.

4. New Drawings

As per attachment 2 see the following New Drawings.

- A-501 Exterior Details. Additional Handrail details for the North Ramp have been included.

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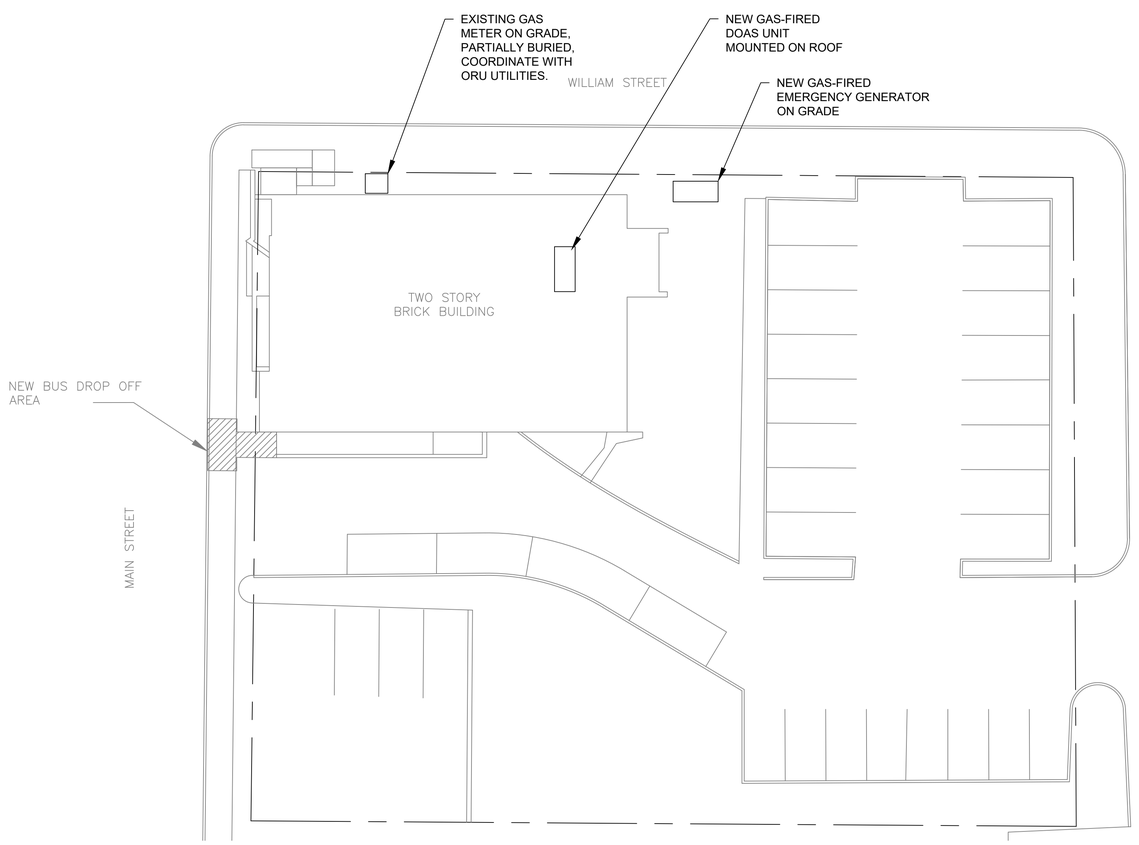
Rockland County Solid Waste Management Authority

ATTACHMENT 1
TO
ADDENDUM 3 TO RFP 2025-02

REVISED DRAWINGS



1 P-002 PLUMBING SITE PLAN
SCALE: 1/16" = 1'-0"

PLAN NORTH

GAS LOAD SCHEDULE

LOAD ITEM	LOCATION	USAGE (CFH)	PRESS (W.C.)	STATUS
RTU	ROOF	180	MIN. 4.0", MAX 13"	REMOVE
RTU	ROOF	80	MIN. 4.5", MAX 11"	REMOVE
RTU	ROOF	80	MIN. 4.5", MAX 11"	REMOVE
RTU	ROOF	72	MIN. 4.0", MAX 13"	REMOVE
RTU	ROOF	180	MIN. 4.0", MAX 13"	REMOVE
WATER HEATER	MECHANICAL RM	40	MIN. 5.0", MAX 14"	REPLACE
BOILER	MECHANICAL RM	130	MIN. 4.5", MAX 14"	EXISTING TO REMAIN
DOAS	ROOF	150 (3)	MIN. 4.5", MAX 14"	NEW
GENERATOR	GRADE	1915	MIN. 6.0", MAX 13"	NEW
TOTAL		2235 (3)		

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

Drawn by WM
Checked by JH/ERF
Project No. 400346
Scale AS SHOWN
Date 02/18/2025

Mechanical, Electrical & Structural Engineer:
GREENMAN PEDERSEN, INC
18 EXECUTIVE BOULEVARD
SUITE 202
SUFFERN, NY 10901

Civil Engineer:
ATZL, NASHER, & ZIGLER
234 North Main Street
New City, NY 10956

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COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-768-9200
www.shilale.com

Drawing Title
PLUMBING SITE PLAN

Drawing No.
P002

MECHANICAL VENTILATION SCHEDULE

GENERAL					PER MCNYS													
ROOM NUMBER	ROOM NAME	ROOM AREA (SF)	CEILING HEIGHT (IN)	ROOM VOLUME (CF)	OCCUPANCY	OCCUPANT LOAD/ 1,000 SF	# OF OCCUPANTS	REQUIRED CFM/ OCCUPANT	REQUIRED CFM/SF	REQUIRED EXHAUST CFM/SF	REQUIRED EXHAUST TOILETS		BREATHING ZONE OUTDOOR AIRFLOW	ZONE DISTRIBUTION EFFECTIVENESS	MIN. REQUIRED OA CFM	ACTUAL OA CFM	ACTUAL TOTAL CFM	MIN. REQUIRED EXHAUST CFM	ACTUAL EXHAUST CFM
											# OF FIXTURES	CFM PER FIXTURE							
FIRST FLOOR																			
2000	ENTRANCE LOBBY	369	100.0	3,075	MAIN ENTRY LOBBIES	10	4	5	0.06	NA	NA	NA	42	1.0	42	50	378	NA	NA
2001	OFFICE	205	96.0	1,640	OFFICE SPACES	5	2	5	0.06	NA	NA	NA	22	1.0	22	30	365	NA	NA
2003	OPEN OFFICE	513	96.0	4,104	OFFICE SPACES	5	3	5	0.06	NA	NA	NA	46	1.0	46	50	610	NA	NA
2005	NEW ACCESSIBLE RESTROOM	61	96.0	488	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	1	50	0	1.0	0	0	NA	50	100
2008	EDUCATIONAL EXHIBIT	976	100.0	8,133	MEDIA CENTER	25	48	10	0.12	NA	NA	NA	597	1.0	597	600	1584	NA	NA
2009	HC TOILET	47	96.0	376	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	1	50	0	NA	NA	NA	NA	50	100
2010	BREAK ROOM	282	96.0	2,256	CAFETERIA	100	29	7.5	0.18	NA	NA	NA	268	1.0	268	275	869	NA	NA
2011	THEATER	415	100.0	3,458	MUSIC/THEATER/DANCE	35	27	10	0.06	NA	NA	NA	295	1.0	295	320	976	NA	NA
2012	COMP ROOM	154	100.0	1,283	MECHANICAL/ELECTRICAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2012A	STORAGE ROOM	105	100.0	875	STORAGE ROOMS	0	0	0	0.12	NA	NA	NA	13	1.0	13	15	EXISTING	NA	NA
2013	WOMEN'S TOILET	31	96.0	248	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	1	50	0	NA	NA	NA	NA	50	100
2014	MEN'S TOILET	22	96.0	173	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	1	50	0	NA	NA	NA	NA	50	100
2015	MECHANICAL ROOM	70	112.0	653	MECHANICAL/ELECTRICAL	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	NA	NA
2016	STORAGE ROOM	114	96.0	912	STORAGE ROOMS	0	0	0	0.12	NA	NA	NA	14	1.0	14	15	280	NA	NA
2017	ELEC/TEL1	61	100.0	508	MECHANICAL/ELECTRICAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2018	CORRIDOR	45	96.0	360	CORRIDORS	0	0	0	0.06	NA	NA	NA	3	1.0	3	10	280	NA	NA
2019	CORRIDOR	96	96.0	768	CORRIDORS	0	0	0	0.06	NA	NA	NA	6	1.0	6	10	280	NA	NA
ST1	STAIRWELL A	129	112.0	1,204	STAIRWELLS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ST2	STAIRWELL B	121	112.0	1,129	STAIRWELLS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SECOND FLOOR																			
200	RECEPTION	348	102.0	2,958	RECEPTION AREAS	30	11	5	0.06	NA	NA	NA	76	1.0	76	100	415	NA	NA
201	OPEN OFFICE	390	102.0	3,315	OFFICE SPACES	5	2	5	0.06	NA	NA	NA	33	1.0	33	40	880	NA	NA
202	OFFICE	114	102.0	969	OFFICE SPACES	5	1	5	0.06	NA	NA	NA	12	1.0	12	20	300	NA	NA
203	OFFICE	114	102.0	969	OFFICE SPACES	5	1	5	0.06	NA	NA	NA	12	1.0	12	20	300	NA	NA
204	OFFICE	153	102.0	1,301	OFFICE SPACES	5	1	5	0.06	NA	NA	NA	14	1.0	14	25	305	NA	NA
205	OFFICE	286	102.0	2,431	OFFICE SPACES	5	2	5	0.06	NA	NA	NA	27	1.0	27	35	370	NA	NA
206A	RESTROOM	50	102.0	425	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	3	50	0	NA	NA	NA	NA	150	200
206B	RESTROOM	50	102.0	425	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	3	50	0	NA	NA	NA	NA	150	200
206C	STORAGE ROOM	23	102.0	196	STORAGE ROOMS	0	0	0	0.12	NA	NA	NA	3	1.0	3	10	10	NA	NA
206D	STORAGE ROOM	35	102.0	298	STORAGE ROOMS	0	0	0	0.12	NA	NA	NA	4	1.0	4	10	10	NA	NA
207	OFFICE	264	102.0	2,244	OFFICE SPACES	5	2	5	0.06	NA	NA	NA	26	1.0	26	35	370	NA	NA
208	OFFICE	120	102.0	1,020	OFFICE SPACES	5	1	5	0.06	NA	NA	NA	12	1.0	12	20	300	NA	NA
209	OFFICE	112	102.0	952	OFFICE SPACES	5	1	5	0.06	NA	NA	NA	12	1.0	12	20	300	NA	NA
210	OFFICE	112	102.0	952	OFFICE SPACES	5	1	5	0.06	NA	NA	NA	12	1.0	12	20	300	NA	NA
211A	JANITORY CLOSET	16	102.0	136	MECHANICAL/ELECTRICAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
212	RESTROOM	38	102.0	321	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	1	50	0	1.0	0	NA	NA	50	100
213	RESTROOM	38	102.0	321	TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0	NA	1	50	0	1.0	0	NA	NA	50	100
214	CONFERENCE	797	102.0	6,775	CONFERENCE ROOMS	50	40	5	0.06	NA	NA	NA	248	1.0	248	260	1640	NA	NA
215	KITCHENETTE	135	102.0	1,148	KITCHENETTE	NA	NA	NA	NA	0.25	NA	NA	NA	NA	NA	NA	280	34	50
-	CORRIDOR	143	102.0	1,216	CORRIDORS	0	0	0	0.06	NA	NA	NA	9	1.0	9	10	10	NA	NA

NOTES:
1. CALCULATIONS ARE BASED ON THE 2020 MCNYS.

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE

UNIT TAG	LOCATION	OUTSIDE AIR (CFM)	TOTAL SUPPLY AIRFLOW (CFM)	MINIMUM OUTSIDE AIRFLOW		ENERGY RATINGS		REFRIGERANT		DX COOLING					HEAT PUMP HEATING			GAS FURNACE HEATING				FILTER	ELECTRICAL				UNIT WEIGHT LBS	CURB UNIT DIMENSIONS (LxWxH, IN)	BASIS OF DESIGN		NOTES
				COOLING	HEATING	EER	COP	TYPE	CHARGE (LB)	EADB (°F)	EAWB (°F)	LADB (°F)	LAWB (°F)	TOTAL CAP (MBH)	EADB (°F)	LADB (°F)	REQ'D TOTAL CAP (MBH)	EADB (°F)	LADB (°F)	INPUT CAP (MBH)	OUTPUT CAP (MBH)	MERV	FLA	MCA	MAX FUSE SIZE	V/PH/HZ			MFGR	MODEL NUMBER	
DOAS - 1	ROOF	2000	2000	1806	1806	12.6	3.7	R-454B	21.3	80.7	69.1	52	52	92	47.0	88.4	98	47.0	102.3	150	120	13	55.9	63.3	90	208/3/60	2212	140x52x55	TRANE	OABE108A3-D1B4G1KM-A1E00AFAKM5D12E3C5A0	SEE NOTES

DOAS SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 237223 FOR ANY ADDITIONAL INFORMATION NOT INCLUDED BELOW.
2. PROVIDE DOUBLE WALL 2" R13 BASE CONSTRUCTION ON ALL CABINET SIDES AND BOTTOM PANEL.
3. PROVIDE A 6 INCH GAP BETWEEN EVAPORATOR AND HOT GAS REHEAT COIL TO PREVENT REEVAPORATING OF CONDENSATE.
4. PROVIDE RUBBER SLEEVES ON CAPILLARIES OFF OF THE DISTRIBUTOR TUBES TO PREVENT LEAKS
5. PROVIDE A 6 INCH FILTER BANK USING MERV 8 AND MERV 13 FILTERS
6. UNIT SHALL BE SEISMICALLY RATED WITH WIND RESTRAINTS.
7. PROVIDE PIEZO RINGS ON ALL FANS FOR AIRFLOW MONITORING.
8. UNIT SHALL HAVE HUMIDITY CONTROL WITH A DEW POINT BELOW 47° AND THE ABILITY TO DECOUPLE SENSIBLE AND LATENT LOADS.
9. PROVIDE DIRECT DRIVE MOTORS FOR BOTH EXHAUST AND SUPPLY FANS.
10. PROVIDE STAINLESS STEEL DRAIN PAN BELOW COOLING COIL FOR NON-CORROSIVE CONDENSATION CONTROL.
11. PROVIDE ACTIVE HEAD PRESSURE CONTROL IN CONDENSER FAN.
12. UNIT SHALL HAVE FACTORY INSTALLED UC600 BACNET CONTROLS.
13. PROVIDE FULLY MODULATING HOT GAS REHEAT.
14. UNIT SHALL BE CAPABLE OF STARTING IN 45 SECONDS AFTER POWER LOSS.

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE (CONTINUED)

UNIT TAG	ENERGY RECOVERY												
	TYPE	ENERGY RECOVERY CFM	SUMMER CONDITIONS						WINTER CONDITIONS					
			OUTSIDE DB/WB °F	RETURN DB/WB °F	EXHAUST/ LEAVING DB/WB °F	SUPPLY/ MIXED DB/WB °F	TOTAL EFFECTIVENESS %	TOTAL RECOVERED CAP (MBH)	OUTSIDE DB/WB °F	RETURN DB/WB °F	EXHAUST/ LEAVING DB/WB °F	SUPPLY/ MIXED DB/WB °F	TOTAL EFFECTIVENESS %	TOTAL RECOVERED CAP (MBH)
DOAS - 1	WHEEL	2000	95.0/75.0	75.0/65.0	89.1/71.5	80.7/69.0	63	45.42	0.0/-2.0	65.0/55.0	26.5/26.3	47.0/39.2	61.0	122.74

No.	Date	Revisions
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0	02-18-25	RFP SET

Drawn by WM/AW
Checked by PC/ERF
Project No. 400346
Scale AS SHOWN
Date 02/18/2025

GREENMAN PEDERSEN, INC
81 EXECUTIVE BOULEVARD
SUITE 206
SUFFERN, NY 10901

Mechanical, Electrical & Structural Engineer:

ATZL, NASHER, & ZIGLER
234 North Main Street
New City, NY 10956

Civil Engineer:

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TOWN OF CLARKSTOWN
COUNTY OF ROCKLAND

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140 Park Avenue New City, NY 10956 Tel 845-708-8200
www.shilale.com

Drawing Title
MECHANICAL SCHEDULES - 1

Drawing No.
M002

INDOOR VRF UNIT SCHEDULE

UNIT TAG	ROOM #	ROOM NAME	CONFIGURATION	TOTAL SUPPLY AIRFLOW (CFM)	REQUIRED (BTU/H)		CAPACITY (BTU/H)		REFRIGERANT	REFR. SAFTEY CLASS	V/PH/HZ	POWER COOLING (kW)	POWER HEATING (kW)	MCA / MFS	UNIT WEIGHT LBS	UNIT DIMENSIONS (LxW, IN)	UNIT DEPTH (IN)	BASIS OF DESIGN		REMARKS
					COOLING	HEATING	COOLING	HEATING										MFGR	MODEL	
AC 1-01	2003	OPEN OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,760	1,470	4,648.3	4,407.4	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 1-02	2003	OPEN OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,760	1,470	4,648.3	4,407.4	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 1-03	2016	STORAGE	CEILING-CASSETTE (FOUR WAY)	280	1,080	330	4,648.3	4,407.4	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 1-04	2019	CORRIDOR	CEILING-CASSETTE (FOUR WAY)	280	2,280	1,570	4,648.3	4,407.4	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 1-05	2001	OFFICE	CEILING-CASSETTE (FOUR WAY)	335	2,400	870	11,155.9	10,625.0	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP012FM140B	SEE NOTES
AC 1-06	2010	BREAK ROOM	CEILING-CASSETTE (FOUR WAY)	297	9,720	2,440	11,155.9	10,625.0	R410A	A1	208/1/60	0.04	0.03	0.24/15	31.3	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP012FM140B	SEE NOTES
AC 1-07	2010	BREAK ROOM	CEILING-CASSETTE (FOUR WAY)	297	9,720	2,440	11,155.9	10,625.0	R410A	A1	208/1/60	0.04	0.03	0.24/15	31.3	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP012FM140B	SEE NOTES
AC 1-08	2018	CORRIDOR	CEILING-CASSETTE (FOUR WAY)	280	2,280	1,570	4,648.3	4,407.4 3	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 1-09	2011	THEATER	CEILING-CASSETTE (ONE WAY)	328	11,155	4,490	13,400.0	12,800.0	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	31-31/32x15-9/16	9-1/16	TRANE	TPMFYP015BM140F	SEE NOTES
AC 1-10	2011	THEATER	CEILING-CASSETTE (ONE WAY)	328	11,155 3	4,490	13,400.0	12,800.0	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	31-31/32x15-9/16	9-1/16	TRANE	TPMFYP015BM140F	SEE NOTES
AC 1-11	2000	ENTRANCE LOBBY	CEILING-CASSETTE (ONE WAY)	328	4,000	3,140	7,240.4	6,954.0	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	31-31/32x15-9/16	9-1/16	TRANE	TPMFYP008BM140F	SEE NOTES
AC 1-12	2008	EDUCATIONAL EXHIBIT	CEILING-CASSETTE (ONE WAY)	328	6,352	3,017	11,155.9	6,954.4	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	31-31/32x15-9/16	9-1/16	TRANE 3	TPMFYP012BM140F	SEE NOTES
AC 1-13	2008	EDUCATIONAL EXHIBIT	CEILING-CASSETTE (ONE WAY)	328	6,352	3,017	11,155.9	10,625.0	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	31-31/32x15-9/16	9-1/16	TRANE	TPMFYP012BM140F	SEE NOTES
AC 1-14	2008	EDUCATIONAL EXHIBIT	CEILING-CASSETTE (ONE WAY)	328	6,352	3,017	7,240.4	6,954.4 3	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3 3	31-31/32x15-9/16	9-1/16	TRANE	TPMFYP008BM140F	SEE NOTES
AC 2-01	200	RECEPTION	CEILING-CASSETTE (FOUR WAY)	315	3,240	2,300	7,240.4	6,954.4	R410A	A1	208/1/60	0.02	0.02	0.28/15	31.3	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP008FM140B	SEE NOTES
AC 2-02	210	OFFICE	CEILING-CASSETTE (FOUR WAY)	280	3,000	1,150	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE 3	TPLFYP005FM140B	SEE NOTES
AC 2-03	209	OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,760	1,140	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-04	208	OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,880	1,200	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-05	207	OFFICE	CEILING-CASSETTE (FOUR WAY)	335	6,600	3,440	10,860.7	10,431.6	R410A	A1	208/1/60	0.02	0.02	0.24/15	31.3	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP012FM140B	SEE NOTES
AC 2-06	215	KITCHENETTE	CEILING-CASSETTE (FOUR WAY)	280	2,117	1,044	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-07	201	OPEN OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,117	1,044	4,525.3	4,327.2 3	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-08	202	OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,160	1,180	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-09	201	OPEN OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,117	1,044	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-10	201	OPEN OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,117	1,044	4,525.3	4,327.2	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-11	205	OFFICE	CEILING-CASSETTE (FOUR WAY)	335	5,640	2,480	10,860.7	10,431.6	R410A	A1	208/1/60	0.02	0.02	0.29/15	31.3	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP012FM140B	SEE NOTES
AC 2-12	204	OFFICE	CEILING-CASSETTE (FOUR WAY)	280	3,360	1,820	4,525.3	4,327.7	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-13	203	OFFICE	CEILING-CASSETTE (FOUR WAY)	280	2,160	1,060	4,525.3	4,327.7	R410A	A1	208/1/60	0.02	0.02	0.24/15	28.9	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP005FM140B	SEE NOTES
AC 2-14	214	CONFERENCE ROOM	CEILING-CASSETTE (FOUR WAY)	460	6,360	3,400	16,291.0	15,454.2	R410A	A1	208/1/60	0.04	0.04	0.5/15	31.1	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP018FM140B	SEE NOTES
AC 2-15	214	CONFERENCE ROOM	CEILING-CASSETTE (FOUR WAY)	460	6,360	3,400	16,291.0	15,454.2	R410A	A1	208/1/60	0.04	0.04	0.5/15	31.1	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP018FM140B	SEE NOTES
AC 2-16	214	CONFERENCE ROOM	CEILING-CASSETTE (FOUR WAY)	460	6,360	3,400	16,291.0	15,454.2	R410A	A1	208/1/60	0.04	0.04	0.5/15	31.1	22-7/16x22-7/16	8-3/16	TRANE	TPLFYP018FM140B	SEE NOTES 3

INDOOR VRF UNIT SCHEDULE NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES
3. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL PIPE LENGTHS AND COORDINATE AS-BUILT CONDITION WITH MANUFACTURER TO OBTAIN ALL LOAD CAPACITIES.
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
5. PROVIDE CN-24 RELAY KITS FOR ALL INDOOR UNITS FOR INTEGRATION WITH BACK-UP HEAT.
6. PROVIDE TE-200A CENTRALIZED CONTROLLER AND REQUIRED LICENSES OF TRACER SC+ FOR ASSOCIATED CONTROLS.
7. LOCAL CONTROLLERS ARE "SIMPLE" TYPE. LOCAL CONTROLLERS CAN BE MINIMIZED BY PAIRING INDOOR UNITS IN THE SAME ROOM TOGETHER ON A SINGLE LOCAL CONTROLLER, IF DESIRED.
8. FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM. PARTIAL CORRECTED CAPACITY ASSUMES SUFFICIENT DIVERSITY EXISTS SUCH THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY.
9. REFER TO SPECIFICATION SECTION 238129 FOR ADDITIONAL INFORMATION.

OUTDOOR VRF UNIT SCHEDULE

UNIT TAG	LOCATION	MODULE	COOLING EFFICIENCY (EER/SEER)	CAPACITY (BTU/H)		REFRIGERANT	REFR. SAFTEY CLASS	V/PH/HZ	MCA	MOP	UNIT WEIGHT LBS	UNIT DIMENSIONS (LxWxH, IN)	BASIS OF DESIGN		REMARKS
				COOLING	HEATING								MFGR	MODEL	
ACCU-1	ROOF	EP120	22.35/10.5	123,645.0	117,661.7	R410A	A1	208/3/60	56	90	622	48-7/8 x 29-3/16 x 71-5/8	TRANE	TURYE1203AN41AN	SEE NOTES
ACCU-2	ROOF	EP120	22.35/10.5	123,087.5	117,451.6 3	R410A	A1	208/3/60	56 3	90	622	48-7/8 x 29-3/16 x 71-5/8	TRANE	TURYE1203AN41AN	SEE NOTES 3

OUTDOOR VRF UNIT SCHEDULE NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.
5. ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
6. FACTORY REPRESENTATIVES SHALL REVIEW THE PROJECT PRIOR TO AND THROUGHOUT THE INSTALLATION OF CITY MULTI EQUIPMENT.
7. FACTORY REPRESENTATIVES SHALL STARTUP AND COMMISSION CITY MULTI EQUIPMENT UPON COMPLETION OF EQUIPMENT INSTALLATIONS.
8. FACTORY REPRESENTATIVES SHALL PROVIDE ON-SITE ASSISTANCE FOR THE BMS INTEGRATION OF THE CITY MULTI EQUIPMENT. SEE DRAWING M401 AND M402 FOR ADDITIONAL INFORMATION.
9. FACTORY REPRESENTATIVES SHALL PROVIDE END-USER TRAINING ON THE CITY MULTI EQUIPMENT UPON COMPLETION OF THE INSTALLATION OF EQUIPMENT.
10. REFER TO SPECIFICATION SECTION 238129 FOR ADDITIONAL INFORMATION.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

UNIT TAG	LOCATION	REFRIGERANT	TYPE	NUMBER OF PORTS	CONNECTED CAPACITY TO BC	VOLTAGE/PHASE/HZ	MCA	MODEL #	NOTES
BC-1	FIRST FLOOR	R410A	SINGLE	16	133,000.0	208/3/60	1.47	TCMBG1016SJ21N4	SEE NOTES
BC-2	SECOND FLOOR	R410A	SINGLE	16	136,000.0 3	208/3/60	1.57	TCMBM1016JA21N4	SEE NOTES 3

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SCHEDULE NOTES:

1. INCLUDE DIAMONDBACK BALL VALVES BV-SERIES, 700PSIG WORKING PRESSURE, FULL PORT, 410A RATED.
2. REFER TO SPECIFICATION SECTION 238129 FOR ADDITIONAL INFORMATION.

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Civil Engineer:

RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE

TOWN OF CLARKSTOWN
COUNTY OF ROCKLAND

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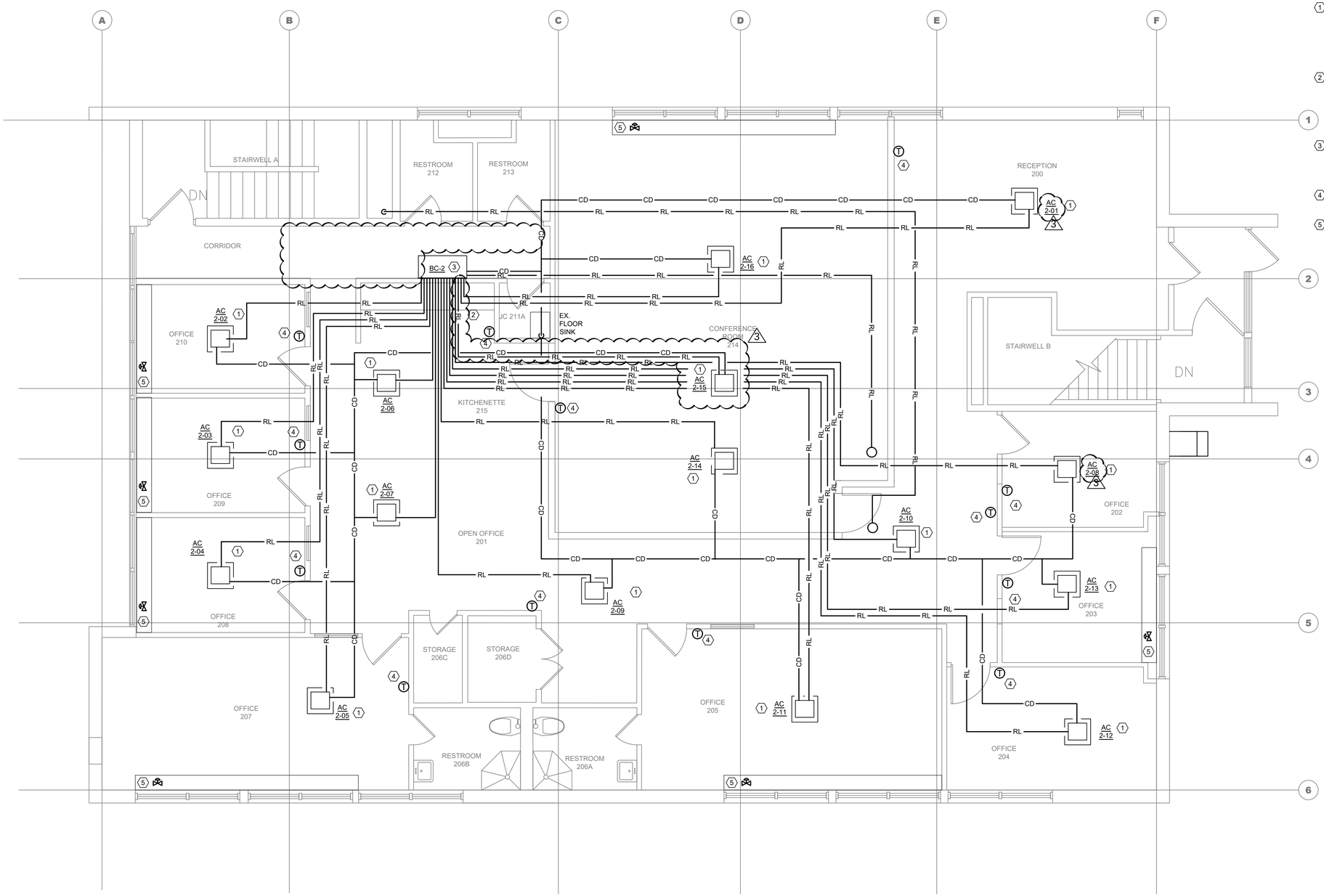
Drawing Title
MECHANICAL SCHEDULES - 2

Drawing No.
M003



1 M-102 MECHANICAL SECOND FLOOR PLAN - PIPING

SCALE: 1/4" = 1'-0"

PLAN NORTH

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1

KEYED NOTES:

1. PROVIDE INDOOR VRF CEILING CASSETTE UNIT INCLUDING HANGERS AND SUPPORTS, REFER TO VRF INDOOR UNIT SCHEDULE ON DRAWING M003. REFER TO MANUFACTURER FOR INSTALLATION DETAILS. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE REFRIGERANT LIQUID/SUCTION PIPING, CONDENSATE DRAIN PIPING AND INSULATION FOR EACH INDOOR UNIT INCLUDING HANGERS AND SUPPORTS. SEE MANUFACTURER'S IOM MANUAL AND MECHANICAL DETAILS DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE BRANCH CONTROLLER BOX, REFER TO MANUFACTURER'S IOM MANUAL FOR ADDITIONAL INFORMATION. SEE DRAWING M003 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE WALL MOUNTED THERMOSTAT FOR CONTROL OF VRF INDOOR UNIT IN EACH SPACE.
5. PROVIDE NEW ZONE VALVE AT EXISTING BASEBOARD HEATER. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION. REFER TO SEQUENCE OF OPERATION FOR INTERLOCK OF ZONE VALVE WITH NEW VRF SYSTEM.

GENERAL NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO PERFORMING THE WORK.
2. ALL PIPING IS TO BE ROUTED ABOVE CEILING, COORDINATE WORK WITH ALL TRADES.

No.	Revisions	Date
0	RFP SET	02-18-25
3	ADDENDUM NO. 3	04-10-25

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Drawing Title
MECHANICAL SECOND FLOOR PIPING INSTALLATION

Drawing No.
M102

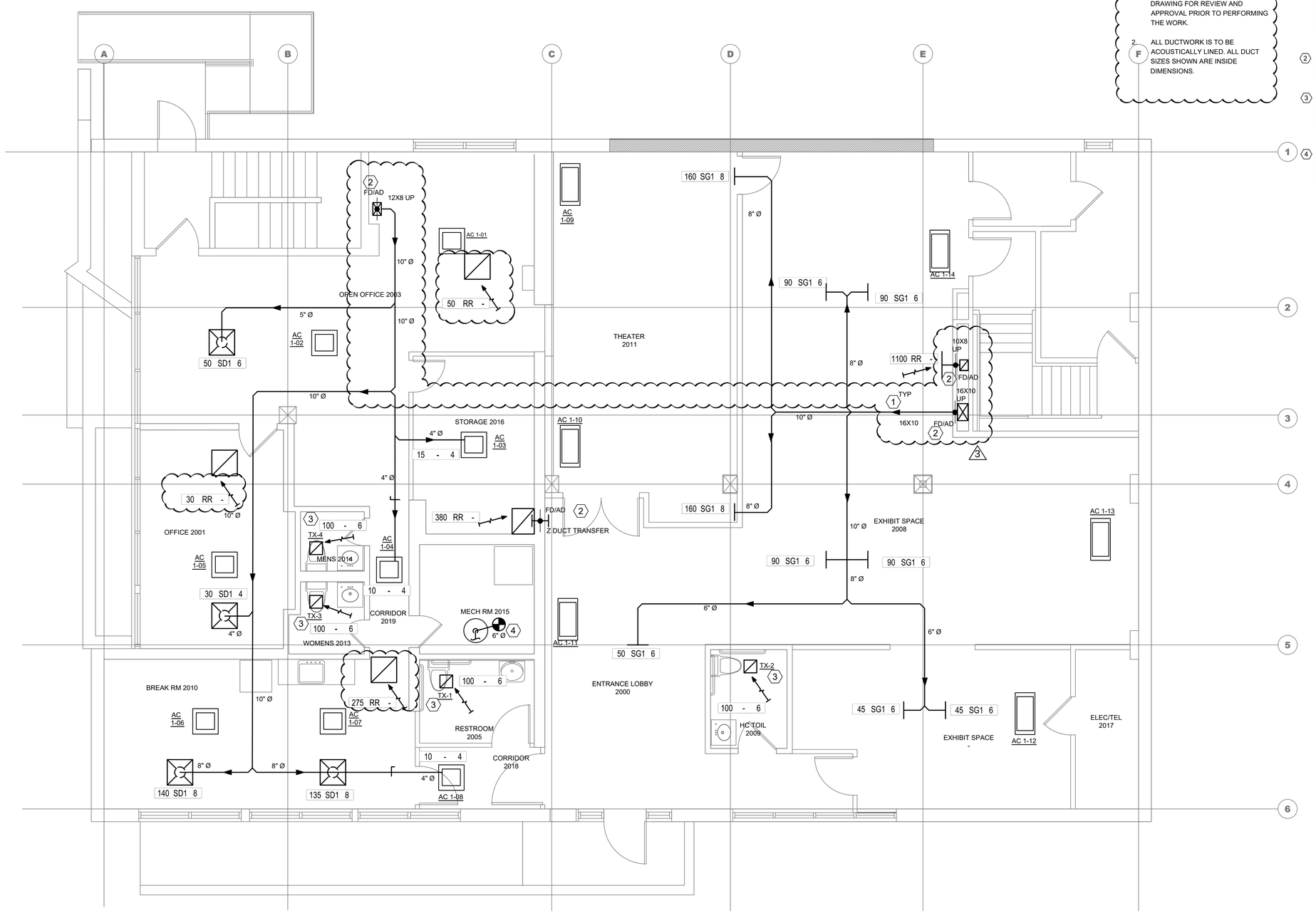
GENERAL NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO PERFORMING THE WORK.
2. ALL DUCTWORK IS TO BE ACOUSTICALLY LINED. ALL DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.

KEYED NOTES:

1. PROVIDE METAL DUCTWORK, INSULATION, HANGERS/SUPPORTS AND AIR INLETS/OUTLETS AS SHOWN. FOR SIZES, SEE FLOOR PLANS AND SCHEDULE ON M004. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FOR DUCTWORK PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, SEE MECHANICAL DETAILS DRAWINGS.
3. PROVIDE NEW TOILET EXHAUST FAN, SEE FAN SCHEDULE ON M004. CONNECT EXHAUST DUCTWORK TO EXISTING VENT UP TO ROOF. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE TYPE B FLUE GAS VENT AND SUPPORTS. CONNECT TO EXISTING 10" Ø TYPE B FLUE FOR GAS FIRED DOMESTIC HOT WATER HEATER, COORDINATE WITH PLUMBING.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1



1 M-201 MECHANICAL FIRST FLOOR DUCTWORK
SCALE: 1/4" = 1'-0"

PLAN NORTH

No.	Date	Revisions
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Drawing Title
MECHANICAL FIRST FLOOR DUCTWORK INSTALLATION

Drawing No.
M201

GENERAL NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO PERFORMING THE WORK.
2. ALL DUCTWORK IS TO BE ACOUSTICALLY LINED. ALL DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.

KEYED NOTES:

1. PROVIDE METAL DUCTWORK, INSULATION, HANGERS/SUPPORTS AND AIR INLETS/OUTLETS AS SHOWN. FOR SIZES, SEE FLOOR PLANS AND SCHEDULE ON M004. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FOR DUCTWORK PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, SEE MECHANICAL DETAILS DRAWINGS.
3. PROVIDE NEW TOILET EXHAUST FAN, SEE FAN SCHEDULE ON M004. CONNECT EXHAUST DUCTWORK TO EXISTING TO VENT UP TO ROOF. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

STAIRWELL A
RESTROOM 212
RESTROOM 213
CORRIDOR
CONFERENCE RM 214
RECEPTION 200
OFFICE 210
KITCHENETTE 215
JC 211A
OFFICE 209
OFFICE 208
OPEN OFFICE 201
OFFICE 207
STORAGE 206C
STORAGE 206D
RESTROOM 206B
RESTROOM 206A
OFFICE 205
STAIRWELL B
OFFICE 202
OFFICE 203
OFFICE 204

1 M-202 MECHANICAL SECOND FLOOR DUCTWORK
SCALE: 1/4" = 1'-0"

PLAN NORTH

No.	Date	Revisions
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Project No. 400346
Scale AS SHOWN
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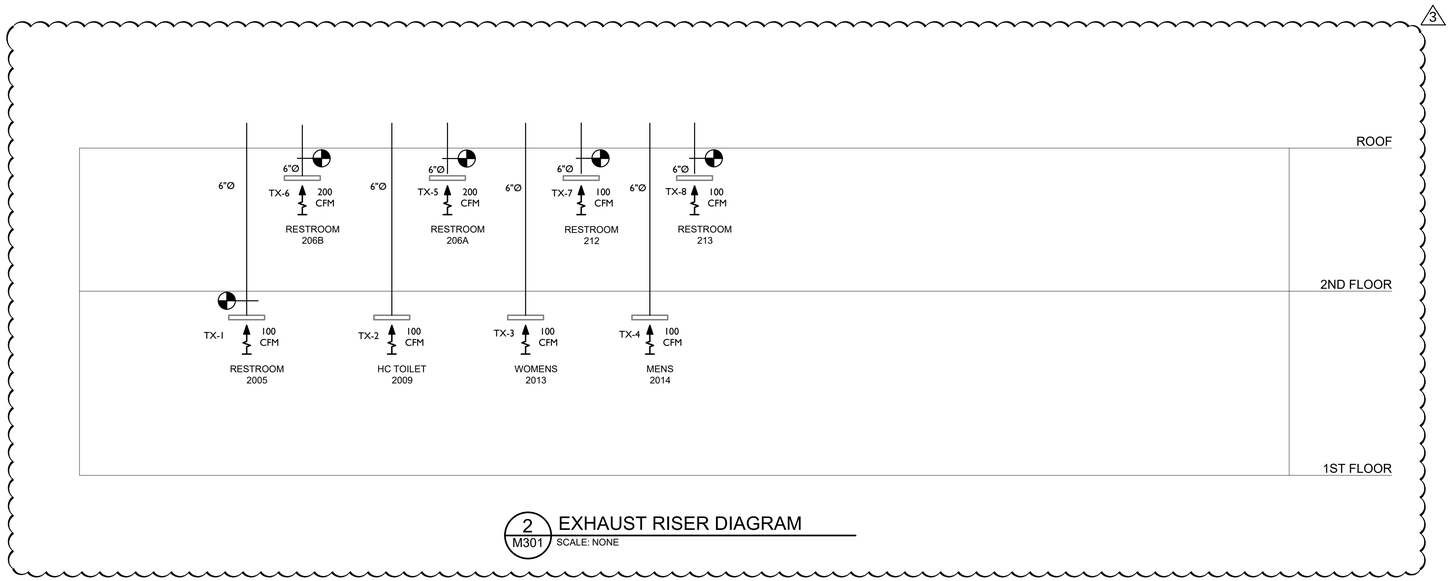
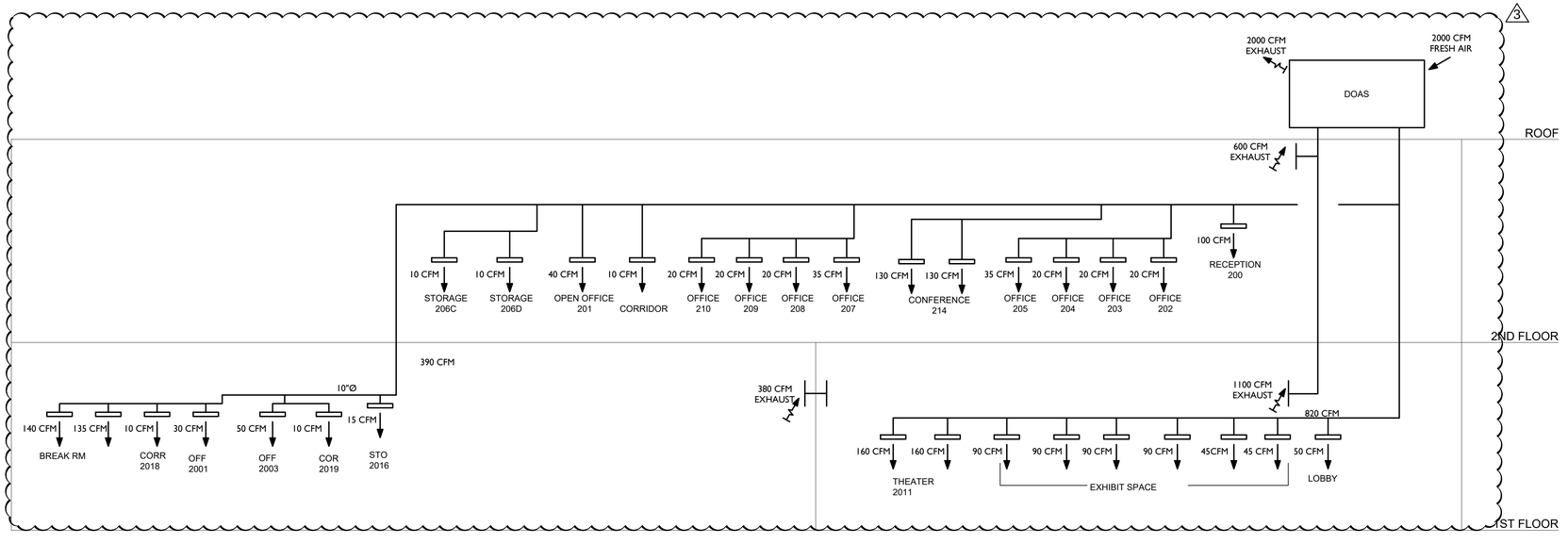
Drawing Title
MECHANICAL SECOND FLOOR DUCTWORK INSTALLATION

Drawing No.
M202



2 M301 EXHAUST RISER DIAGRAM
SCALE: NONE



1 M301 VENTILATION RISER DIAGRAM
SCALE: NONE

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

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Checked by PC
Project No. 400346
Scale NONE
Date 02/18/2025

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RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE

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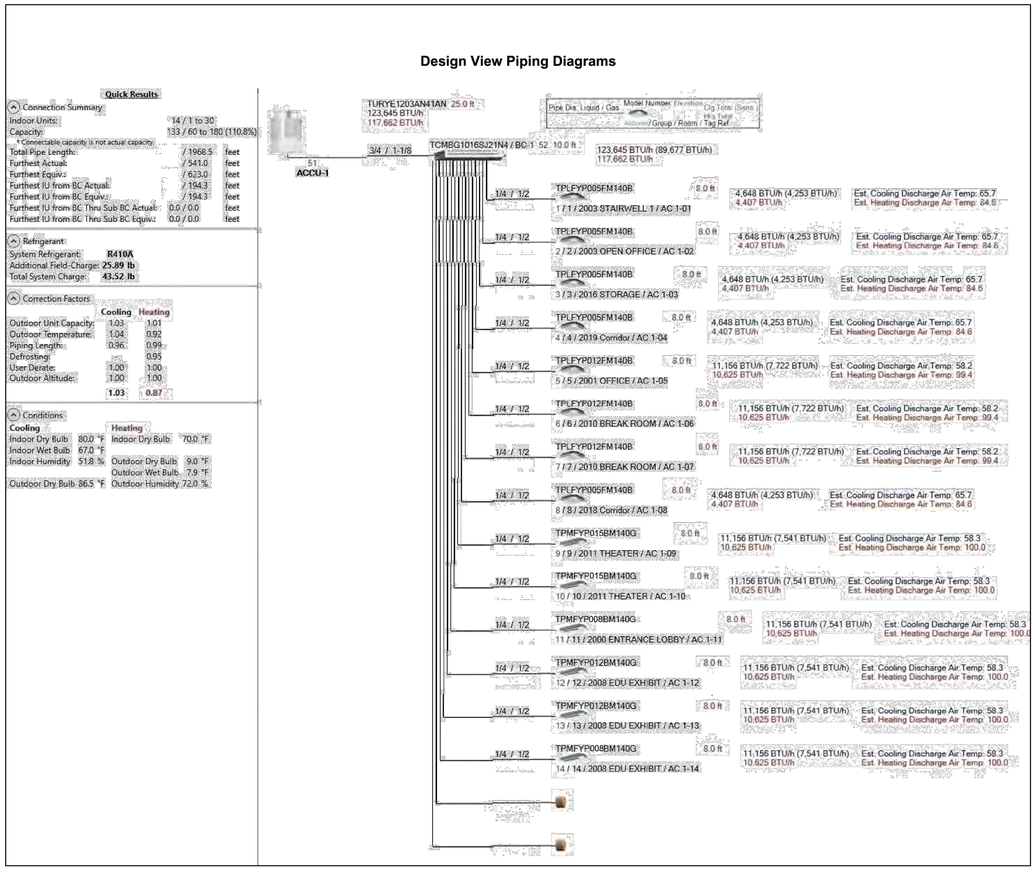
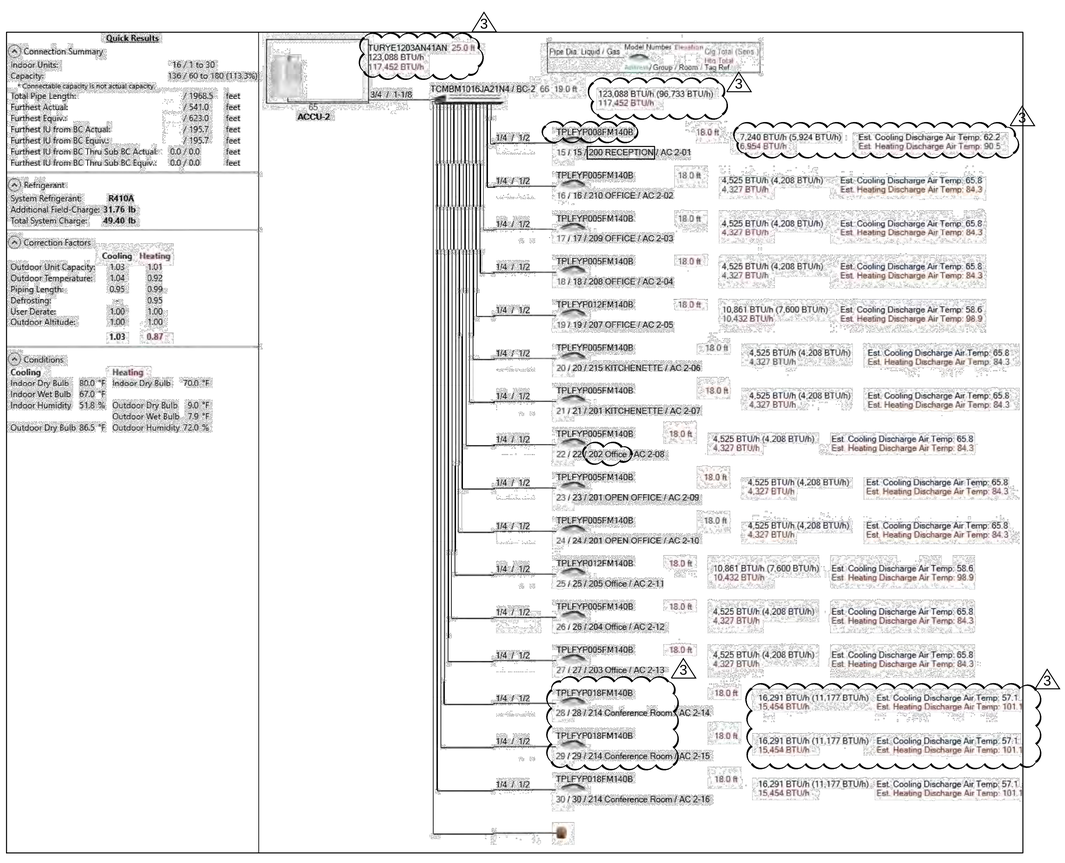
Drawing Title
AIR RISER DIAGRAM

Drawing No.
M301

Design View Piping Diagrams





1 M302 VRF PIPING RISER DIAGRAM
SCALE: NONE

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Date 02/18/2025

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Drawing Title
PIPING RISER DIAGRAMS

Drawing No.
M302

ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE (NEC), STATE OF NEW YORK UNIFORM CONSTRUCTION CODES, THE 2020 INTERNATIONAL BUILDING CODE, 2018 IECC, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.
2. PROVIDE A COMPLETE OPERABLE SYSTEM IN A NEAT AND SKILLFUL MANNER. OUTLINE DESCRIPTION AND EQUIPMENT; DO NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM.
3. VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE DUE FOR FAILURE TO DO SO.
4. CONTRACTOR TO BE RESPONSIBLE FOR REVIEWING THE FULL SET OF BID DOCUMENTS TO BE AWARE OF THE TOTAL SCOPE PRIOR TO SUBMITTING BID. ALL WORK SHOWN ON THE DRAWINGS NOT SPECIFICALLY CALLED OUT AS EXISTING SHALL BE CONSIDERED WORK TO BE PERFORMED UNDER THIS CONTRACT.
5. BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WITHOUT FIRST SECURING SUFFICIENT PROOF IN SUPPORT OF EVIDENCE OF SUCH EXTRA CLAIMS. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AREAS WHERE INSUFFICIENT INFORMATION IS AVAILABLE, OR WHERE IT CAN BE DOCUMENTED WITH PHOTOS, AND OTHER SUPPORTING INFORMATION THAT SUCH EVIDENCE WAS BEYOND THE MEANS OF THE CONTRACTOR AS JUDGED BY THE OWNER. FINAL JUDGEMENT FOR SUCH CLAIMS SHALL BE BY THE OWNER. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF ANY ERROR DUE TO THE CONTRACTOR'S NEGLECT TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ENGINEER, ARCHITECT AND OWNER.
6. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPARTMENT. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED.
7. UPON COMPLETION OF ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL CIRCUITS, DEVICES AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT OR MATERIALS AND THAT PORTION OF THE SYSTEM SHALL BE RETESTED. ALL SUCH REMEDIAL WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
8. ALL NOTATIONS OF "SCALE" ARE INTENDED AS APPROXIMATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN THE EXACT DIMENSIONS IN FIELD.
9. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. LOCATIONS SHOWN ARE TO INDICATE INTENT AND SHALL BE FIELD VERIFIED.
10. UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PULL BOXES, JUNCTION BOXES, LOW VOLTAGE SYSTEMS DEVICES, ETC. WHERE INDICATED ON DRAWINGS, SHALL BE CONSIDERED SHOWN AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE THESE ITEMS AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ARCHITECT OR OWNER.
11. ALL CONDUIT RUNS, WHEN SHOWN ON THE DRAWINGS, ARE SHOWN DIAGRAMMATICALLY TO OUTLINE THE GENERAL ROUTING OF MAJOR FEEDERS AND BRANCH WIRING. IT IS NOT WITHIN THE SCOPE OF THESE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
12. ADDITIONAL PULL AND JUNCTION BOXES NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE REQUIREMENTS OR WHERE CALLED FOR BY FIELD CONDITIONS. PULL AND JUNCTION BOXES SHALL BE SURFACE MOUNTED THROUGHOUT.
13. CONDUIT RUNS SHALL CLEAR ALL ARCHITECTURAL FEATURES (DOORS, WINDOWS, ETC) AND STRUCTURAL MEMBERS. CONDUIT INSTALLATION SHALL ALSO BE MADE TO AVOID OBSTRUCTION AND CLEAR ACCESS WITH PIPES, DUCTS, OR OTHER EQUIPMENT CORRESPONDING TO OTHER TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION. SHALL ANY OF THESE ELEMENTS PREVENT THE INSTALLATION OF RACEWAY AS DELINEATED ON THE CONTRACT DOCUMENTS, DEVIATION MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ANY VARIATION DUE TO FIELD CONDITIONS SHALL NOT REPRESENT AN ADDITIONAL COST TO OWNER.
14. ALL CONDUITS BEING INSTALLED AS PART OF THIS PROJECT ARE EXPOSED EXCEPT IN AREAS WITH ACCESSIBLE HUNG CEILING. WHEN EXPOSED, CONDUIT AND BOXES SHALL BE PAINTED. PAINTING SHALL CONSIST OF A PRIME COAT AND A FINISH COAT, COLOR AS SELECTED BY ARCHITECT OR TO MATCH SURROUNDING SURFACES. FACTORY PAINTING WILL BE ACCEPTED AS A PRIME COAT. CONDUIT SHALL BE RUN ABOVE HUNG CEILING WHERE AVAILABLE.
25. MINIMUM SIZE OF CONDUITS SHALL BE 3/4", UNLESS OTHERWISE NOTED. PROVIDE 2#12, 1#12G IN 3/4" CONDUIT TO 20A CIRCUIT BREAKERS IN PANELS INDICATED, UNLESS OTHERWISE NOTED.
26. PROVIDE OUTLET BOXES AND ENCLOSURES APPROPRIATE FOR THE PURPOSE AT ALL LOCATIONS WHERE THE DRAWINGS REQUIRE THE INSTALLATION OF ELECTRICAL DEVICES OR ELECTRICAL EQUIPMENT.
27. ALL OPENINGS BETWEEN FLOORS, THROUGH RATED FIRE AND SMOKE WALLS, CREATED BY THE CONTRACTOR FOR CABLE OR CONDUIT PASS THROUGH SHALL BE SEALED WITH A FIRE STOPPING MATERIAL. FIRE STOPPING MATERIAL AND ITS APPLICATION SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
28. ALL EXPOSED NONCURRENT-CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE GROUNDED. A SEPARATE GROUND CONDUCTOR SHALL BE RUN IN ALL CONDUITS IN ALL CASES. ENSURE CONTINUITY OF THE GROUNDING CIRCUIT FROM THE SUPPLYING PANELBOARD GROUNDING BUS TO THE LOAD GROUND TERMINAL. THE RESISTANCE FROM THE SERVICE EQUIPMENT GROUND BUS TO ANY LOAD GROUND TERMINAL SHALL NOT EXCEED 1 OHM.
29. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
30. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAINTIGHT INSTALLATION.
31. ALL EQUIPMENT SHALL HAVE COPPER CURRENT CARRYING PARTS INCLUDING GROUND BUS AND TERMINALS.
32. REMOVE ALL DEBRIS RESULTING FROM REMOVAL AND/OR INSTALLATION OF ELECTRICAL WORK FROM THE PREMISES.
33. UNLESS OTHERWISE NOTED, "INSTALL" MEANS TO BE PROVIDED AND INSTALLED BY THIS CONTRACTOR.
34. CONTRACTOR TO BE RESPONSIBLE FOR ALL RESTORATION, SEALING, WATERPROOFING, PENETRATIONS, CORE DRILLING, CUTTING, PATCHING, AND PAINTING FOR THE COMPLETE CONTRACT WORK INDICATED. ALL RESTORATION WORK PERFORMED BY CONTRACTOR SHALL RESTORE DISTURBED SURFACES TO MATCH ALL SURROUNDING CONSTRUCTION.
35. IF DURING THE COURSE OF THE PROJECT, ASBESTOS OR OTHER HAZARDOUS MATERIAL CONTAMINATION IS ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER, THE PROJECT MANAGER, AND THE DESIGN PROFESSIONAL IMMEDIATELY (WITHIN 24 HRS.) IN WRITING. CONTRACTOR WILL SUSPEND WORK IN THE AFFECTED AREA UNTIL SUCH TIME THAT THE SAID AREA IS CERTIFIED AS CONTAMINATION FREE.

ELECTRICAL DEMOLITION NOTES:

1. THE DEMOLITION WORK SHALL BE CARRIED ON IN EVERY RESPECT IN A THOROUGH AND NEAT AND SKILLFUL MANNER.
2. ALL DEMOLITION, REMOVAL, AND DISPOSAL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE BUILDING CODE AND WITH ALL STATE AND FEDERAL REGULATIONS.
3. REMOVE ALL DEBRIS NOT EXPLICITLY DESIGNATED TO BE SALVAGED (TO REMAIN) FROM THE PREMISES AND LEGALLY DISPOSE OF AWAY FROM PREMISES.
4. ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED EITHER BEFORE DEMOLITION OR DURING THE PROCESS OF THE WORK, STORED AND PROTECTED ON THE SITE IN A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. THESE ITEMS WILL BE IDENTIFIED AND RETAINED BY THE OWNER.
5. CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SAVED AND REUSED AS INDICATED ON DRAWINGS. REPLACE ANY ITEMS THAT ARE DAMAGED BY REMOVAL AT YOUR OWN COST. NOTIFY THE OWNER IN WRITING OF ANY ITEM THAT IS DAMAGED PRIOR TO REMOVAL SO THAT THEY MAY ASCERTAIN THE ITEM'S CONDITION.
6. PROTECT MATERIALS, SURFACES AND STRUCTURE, WHICH ARE TO REMAIN, FROM DAMAGE; IF DAMAGE OCCURS, REPAIR OR REPLACEMENT SHALL BE MADE BY THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER, AND AT THE EXPENSE OF THE CONTRACTOR.
7. DISCONNECT, REMOVE AND RELOCATE ANY ELECTRICAL EQUIPMENT NOT SHOWN ON THESE DRAWINGS AS PART OF THIS CONTRACT, BUT INTERFERES WITH THE WORK UNDER THIS CONTRACT. THIS WORK SHALL NOT BE CONSIDERED EXTRA AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
8. VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT ATTEND THE EXECUTION OF THIS WORK. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED.
9. RELOCATE AND/OR ALTER THE EXISTING BUILDING COMPONENTS AS DIRECTED BY OWNER'S REPRESENTATIVE. ALL RELOCATION OR ALTERATIONS TO BUILDING SHALL BE RESTORED TO THEIR ORIGINAL WORKING CONDITIONS AFTER SUCH RELOCATION OR ALTERATION WORK.
10. AT THE COMPLETION OF DEMOLITION WORK, ALL RUBBISH, DEBRIS AND WASTE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR AND THE PREMISES SHALL BE LEFT IN CLEAN CONDITION.
11. THE CONTRACTOR SHALL DISCONNECT THE CIRCUIT WIRING NOT IN USE AND SHALL REMOVE ALL NECESSARY WIRING MATERIALS, INCLUDING EXPOSED CONDUITS AND JUNCTION BOXES WHICH IMPEDE THE NEW WORK.
12. MAINTAIN CONTINUITY FOR ALL EQUIPMENT TO REMAIN. PROVIDE ALL REQUIRED ACCESSORIES, WIRING AND CONDUIT AS REQUIRED.
13. SUBSTANTIAL JOB COMPLETION INCORPORATES DEMOLITION OF EXISTING SYSTEMS IN CONTRACT.
14. THE BUILDING FA SYSTEM SHALL BE REMOVED AND REPLACED WITH NEW. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION UNTIL NEW SYSTEM IS INSTALLED AND APPROVED.
15. CONTRACTOR TO PROVIDE ALL PHYSICAL PROTECTION REQUIRED TO PROTECT ALL EQUIPMENT DURING CONSTRUCTION.
16. ALL HOLES MADE BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY PATCHED AND REPAIRED. ALL CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SEALED.
17. THE CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING AND REPAIRING AS REQUIRED TO COMPLETE ALL WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

DRAWING LIST

Sheet Number	Sheet Title
E001	ELECTRICAL GENERAL NOTES & SYMBOLS
ED101	ELECTRICAL FIRST FLOOR - DEMOLITION
ED102	ELECTRICAL SECOND FLOOR - DEMOLITION
ED103	ELECTRICAL ROOF - DEMOLITION
E101	ELECTRICAL FIRST FLOOR - INSTALLATION
E111	ELECTRICAL FIRST FLOOR EQUIPMENT - INSTALLATION
E102	ELECTRICAL SECOND FLOOR - INSTALLATION
E112	ELECTRICAL SECOND FLOOR EQUIPMENT - INSTALLATION
E103	ELECTRICAL ROOF PLAN - INSTALLATION
E104	ELECTRICAL SITE PLAN
E201	ELECTRICAL FIRST FLOOR RCP -INSTALLATION
E202	ELECTRICAL SECOND FLOOR RCP -INSTALLATION
E203	ELECTRICAL LIGHTING CONTROLS
E204	ELECTRICAL AV CONTROLS
E301	ELECTRICAL POWER RISER
E302	ELECTRICAL SYSTEMS PARTIAL RISERS
E401	ELECTRICAL PANEL SCHEDULES SHEET NO.1
E402	ELECTRICAL PANEL SCHEDULES SHEET NO.2
E501	ELECTRICAL DETAILS

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
A/C	AIR CONDITIONING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT(S)	CIRCUIT(S)
CLG	CEILING
COL	COLUMN
CONT	CONTINUATION
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EC	EMPTY CONDUIT
ELEC	ELECTRIC
EM	EMERGENCY
ER	EXISTING TO BE RELOCATED
EQ.	EQUAL
EXH	EXHAUST
EXIST,EX,E	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FL	FLOOR
G,GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
IG	ISOLATED GROUND
J	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MTD	MOUNTED
N	NEUTRAL
N.C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULL BOX
PNL	PANEL
ϕ, P	PHASE
PWR	POWER
R	EXISTING TO REMOVED
RE	EXIST TO BE REMOVED/ RETURNED
REC	RECEPTACLE
SP	SPARE
SW	SWITCH
SWBD	SWITCHBOARD
TYP	TYPICAL
U.O.N	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VIF	VERIFY IN FIELD
W	WATT
WAP	WIRELESS ACCESS POINT
WP	WEATHER PROOF
XFMR	TRANSFORMER
1P, 2P, 3P	SINGLE POLE, TWO POLE, THREE POLE

POWER SYMBOLS

S^{3}_{a}	SINGLE POLE SWITCH 2 = DOUBLE POLE 3 = THREE-WAY V = VARIABLE SWITCH a = CONTROLS SWITCH LEG 'a' MO = MOMENTARY CONTACT M,2P = DISCONNECT SWITCH - TOGGLE TYPE MOTOR RATED, 20A, 2P, UON.
$\ominus_{a}$	NEMA 5-20R, 20A, 125V DUPLEX RECEPTACLE - FLUSH WALL MOUNTED CONTROLLED FROM WALL SWITCH 'a'
$\ominus_{S}$	NEMA 5-20R, 20A, 125V QUAD RECEPTACLE COMBINATION HDMI, USB, CAT6, VGA - FLUSH WALL MOUNTED OUTLET
	NEMA 5-20R, 20A, 125V DUPLEX, ISOLATED GROUND COMPUTER RECEPTACLE - FLUSH WALL MOUNTED; PROVIDE WITH ORANGE TRIAGE ON FACEPLATE OF RECEPTACLE PER CODE.
GFI	NEMA 5-20R, 20A, 125V DEDICATED DUPLEX RECEPTACLE - FLUSH WALL MOUNTED. GFI DENOTES GROUND FAULT INTERRUPTER.
	NEMA 5-20R, 20A, 125V QUAD RECEPTACLE - FLUSH WALL MOUNTED
	NEMA 5-20R, 20A, 125V DEDICATED QUADRUPLEX RECEPTACLE - FLUSH WALL MOUNTED
A	SINGLE SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MOUNTED LETTER = TYPE 'A' - (15A) NEMA CONFIG. 6-15R, 250V, 2P, 3W, GROUNDED 'B' - (20A) NEMA CONFIG. 6-20R 'C' - (30A) NEMA CONFIG. 6-30R 'D' - (50A) NEMA CONFIG. 6-50R
GFI	COORDINATE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECT AND FURNITURE INSTALLATIONS.
5 3 1	HOMERUN-NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. 2#12+1#12G-3/4"C FOR ONE CKT. HOMERUN, U.O.N. 3#12+1#12G-3/4"C FOR TWO CKT. HOMERUN, U.O.N. 4#12+1#12G-3/4"C FOR THREE CKT. HOMERUN, U.O.N.
J	JUNCTION BOX
100/60 3P	FUSED DISCONNECT SWITCH, VOLTAGE RATING AS REQUIRED '100' -DENOTES SWITCH SIZE '60' -DENOTES FUSE SIZE IF INDICATED '3P' -DENOTES NUMBER OF POLES
30A,3P WP	NON-FUSED DISCONNECT SWITCH. VOLTAGE RATING AS REQUIRED BRANCH CIRCUIT PROTECTIVE DEVICE '30A' - DENOTES SWITCH SIZE '3P' -DENOTES NUMBER OF POLES
30A	VARIABLE FREQUENCY DRIVE/MOTOR STARTER. VOLTAGE RATING AS REQUIRED BRANCH CIRCUIT PROTECTIVE DEVICE '30A' - DENOTES AMPERAGE RATING
W	METER
	SURFACE MOUNTED LIGHTING/POWER PANELBOARD
	RECESSED MOUNTED LIGHTING/POWER PANELBOARD
C P	EXISTING CONDUIT STUB UPS TO FURNITURE TO REMAIN.
A	FLUSH FLOOR MOUNTED FIRE RATED COMBINATION FLOOR BOX. PROVIDE COMBINATION/TYPE OF RECEPTACLES AND/OR TELECOMMUNICATIONS OUTLETS AS INDICATED BY SYMBOLS. COORDINATE COMPONENT REQUIREMENTS WITH CLIENT. VIF CONDUIT ROUTING/LOCATION OF DEVICE. COORDINATE WITH MANUFACTURER TO PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE SYSTEM INSTALLATION. PROVIDE LEGRAND, MODEL EFBSS, OR APPROVED EQUIVALENT. RUN 3/4"C FOR POWER AND 1-1/4"C FOR COMMUNICATIONS. TERMINATE ENDS WITH BUSHING.
P	FLUSH WALL MOUNTED JUNCTION BOX FOR POWER WIRING TO FURNITURE RACEWAY SYSTEM. PROVIDE FLEXIBLE CONDUIT CONNECTION FROM THE JUNCTION BOX TO RACEWAY SYSTEM; 3/4" C FOR POWER FEED
C	FLUSH WALL MOUNTED JUNCTION BOX FOR COMMUNICATION WIRING TO FURNITURE RACEWAY SYSTEM. PROVIDE FLEXIBLE CONDUIT CONNECTION FROM THE JUNCTION BOX TO RACEWAY SYSTEM AND 1-1/4" EMPTY CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING AND TERMINATED WITH BUSHING. PROVIDE WITH (2) DATA DROPS PER WORKSTATION.
GND "TP"	WALL MOUNTED GROUND BUS BAR
	EXISTING CONDUIT/EQUIPMENT TO REMAIN
	CONDUIT TRENCHED IN SLAB
	CONDUIT STUBBED UP
	CONDUIT OPENING OUT TO FLOOR
	CONDUIT END WITH BUSHING

COMMUNICATION SYMBOLS

	WALL MOUNTED OUTLET IN DOUBLE GANG BOX WITH SINGLE GANG REDUCER PLATE AND 1" EMPTY CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING. PROVIDE WITH 2 DATA JACKS.
	WALL MOUNTED DATA OUTLET IN DOUBLE GANG BOX WITH SINGLE GANG REDUCER PLATE AND 1" EMPTY CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING.
	WALL MOUNTED DATA OUTLET IN DOUBLE GANG BOX AND 1" EMPTY CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING.
	WALL MOUNTED AUDIO/VISUAL OUTLET IN DOUBLE GANG BOX AND 1-1/4" EMPTY CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING.
T	WALL MOUNTED THERMOSTAT; PROVIDE DOUBLE GANG BOX, 1" EMPTY CONDUIT WITH PULL STRING STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING. COORDINATE INSTALLATIONS WITH MECHANICAL CONTRACTOR.
WAP	WIRELESS ACCESS POINT
	CEILING MOUNTED PA SPEAKER
	CEILING MOUNTED OUTLET IN DOUBLE GANG BOX WITH SINGLE GANG REDUCER PLATE. HORIZONTAL CAT6 CABLES TO BE SUPPORTED VIA J-HOOKS. VERTICAL RUNS SHALL BE IN 1" CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING. PROVIDE WITH OUTLET WITH 2 DATA JACKS.
	CEILING MOUNTED OUTLET IN DOUBLE GANG BOX WITH SINGLE GANG REDUCER PLATE. HORIZONTAL CAT6 CABLES TO BE SUPPORTED VIA J-HOOKS. VERTICAL RUNS SHALL BE IN 1" CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING. PROVIDE WITH OUTLET WITH 1 DATA JACK.
H	CEILING MOUNTED OUTLET IN DOUBLE GANG BOX WITH SINGLE GANG REDUCER PLATE. HORIZONTAL AND VERTICAL RUN SHALL BE IN 1" CONDUIT WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING IN A 90 DEGREE BEND AND TERMINATED WITH BUSHING. PROVIDE WITH HDMI CABLE.
FA	DACT DEDICATED PHONE CONNECTION TO FIRE ALARM. REFER TO FIRE ALARM DRAWINGS.
FF #X	SYSTEMS RISER SYMBOL: REFER TO FLUSH FLOOR MOUNTED COMBINATION POKE-THRU SYMBOL DESCRIPTION. SUPERSCRIPT "FF" DENOTES FLOOR MOUNTED FURNITURE WHIPS SUPERSCRIPT "PT" DENOTES FLOOR MOUNTED OUTLET. FOR SUBSCRIPT "#X", LETTER DENOTES QTY OF DATA RUNS.
SP	WALL MOUNTED SPEAKER; SUBSCRIPT "SP" DENOTES SPEAKER FOR THEATER; SUBSCRIPT "SW" DENOTES SUBWOOFER FOR THEATER
MDR	MAIN DATA RACK
RACK	THEATER 21 U RACK

LIGHTING SYMBOLS

NL 'A' a NL 'A' a NL A'	2'x4'/2'x2'/1'x4' FLUORESCENT CEILING MOUNTED FIXTURE 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a' NS = NOT SWITCHED NL = NIGHT LIGHT
'A' a	SIMILAR TO ABOVE WITH EMERGENCY BACKUP 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
'A'	CEILING MOUNTED EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES 'A' = FIXTURE TYPE
EXIT	EXIT SIGN WITH EMERGENCY LIGHT
	CEILING MOUNTED SENSOR; 'OC' DENOTES OCCUPANCY SENSOR; 'VS' DENOTES VACANCY SENSOR; 'DL' DENOTES PHOTO SENSOR, " a" DENOTES ZONE CONTROL
J PP	POWER PACKS; FINAL OPTION PER APPROVED MANUFACTURER. PD DENOTES FOR DAYLIGHT ZONE DIMMING) PP DENOTES (DIMMING OPTION) P1 DENOTES (NON-DIMMING OPTION) EM DENOTES (EMERGENCY OPTION)
HUB	HUB
S^{b}_{OS}	WALL MOUNTED TWO-ZONE RAISE/LOWER SWITCH. PROVIDE NECESSARY APPURTENANCES FOR A COMPLETE INSTALLATION.
$S^{b}_{OS,\#}$	WALL MOUNTED SINGLE/MULTI-ZONE RAISE/LOWER SWITCH FOR OPEN AREA ZONE CONTROL. PROVIDE NECESSARY APPURTENANCES FOR A COMPLETE INSTALLATION. LETTER(S) DENOTES LIGHTING ZONE DESIGNATION. REFER TO DWG. E203.
$S^{b,D,G}_{MS,\#}$	WALL MOUNTED MAIN AREA, CORRIDOR AND OPEN AREA SWITCH. LETTER DENOTES LIGHTING ZONE DESIGNATION. REFER TO DWG. E203 FOR SWITCH TYPE AND LIGHTING CONTROL PACKAGE.
S^{b}_{D}	WALL MOUNTED TWO ZONE RAISE/LOWER SWITCH(ES) TO SUIT APPLICATION.
$S_{OS,D}$	WALL MOUNTED LINE-VOLTAGE SINGLE-ZONE RAISE/LOWER SWITCH WITH OCCUPANCY SENSOR.
S_{OS}	WALL MOUNTED LINE-VOLTAGE OCCUPANCY SENSOR SWITCH. LETTER DENOTES LIGHTING ZONE DESIGNATION.
S_{VS}	WALL MOUNTED LINE-VOLTAGE VACANCY SENSOR SWITCH. LETTER DENOTES LIGHTING ZONE DESIGNATION.
A #	SECTION A # = DRAWING NUMBER

No.	Date	Revisions
0	02-18-25	RFP SET
3	04-10-25	ADDENDUM NO. 3

Drawn by JL
Checked by SH
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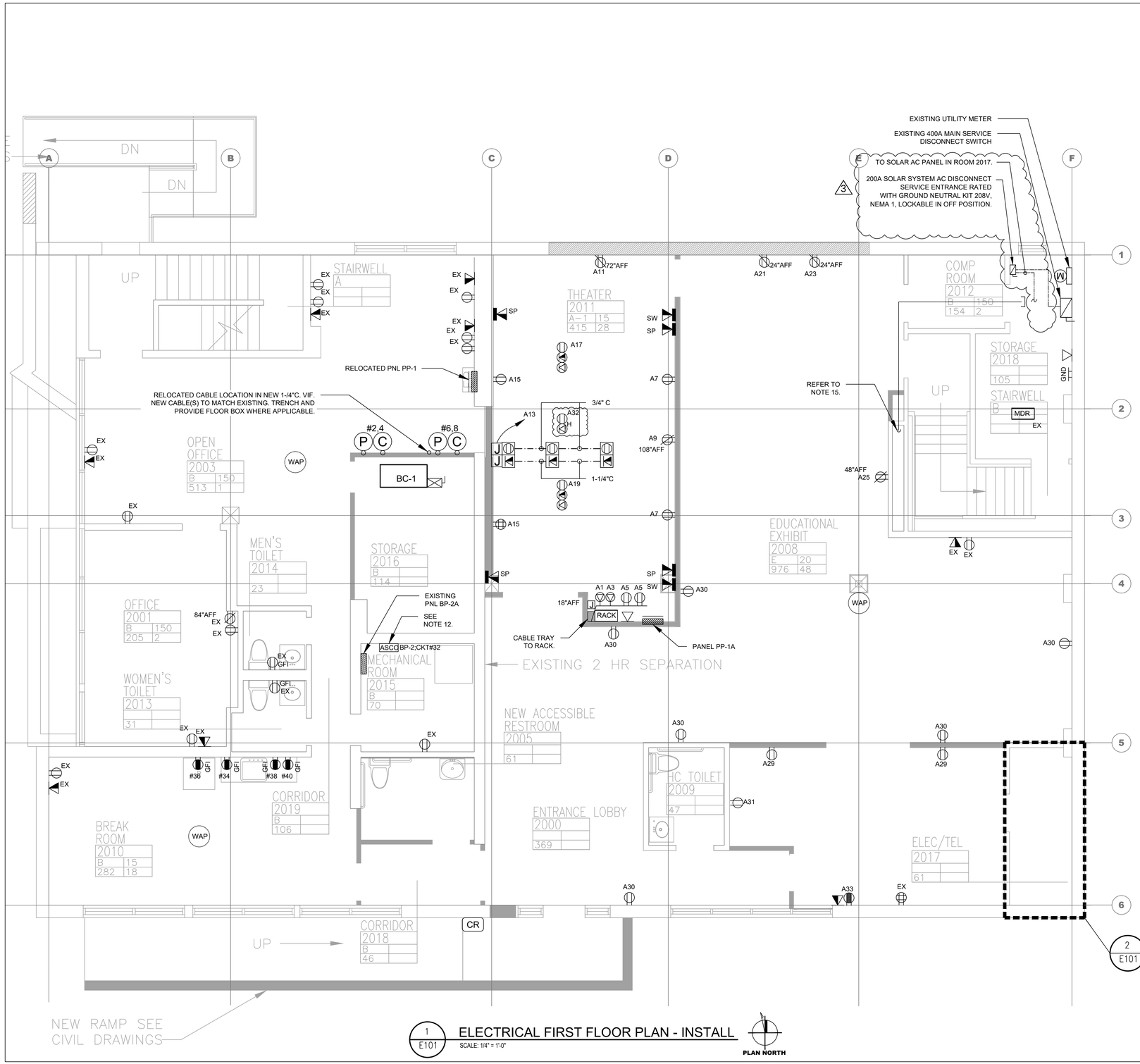
Drawing Title
ELECTRICAL GENERAL NOTES & SYMBOLS

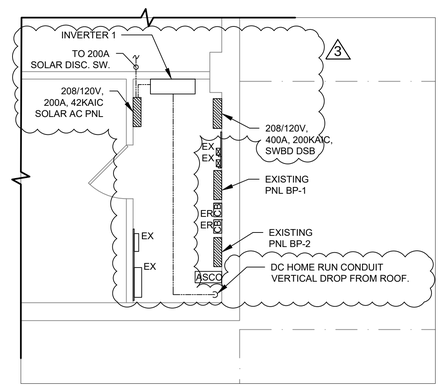
Drawing No.
E001



1 E101 ELECTRICAL FIRST FLOOR PLAN - INSTALL
SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS, REFER TO DWG. E001.
2. COORDINATE LOCATION OF BASE BUILDING ELECTRICAL PANELS WITH PROPERTY MANAGER.
3. ALL WIRING SHALL BE 2#12 AWG, 1#12 AWG GND IN 3/4" C, U.O.N.
4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY.
5. UPDATE ALL EXISTING PANELBOARD DIRECTORIES AFFECTED BY NEW WORK. REFER TO PANELBOARD DESIGNATION LEGEND FOR IDENTIFICATION OF PANELBOARDS AND CIRCUITS.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES ARE REQUIRED.
7. ALL OUTLET LOCATION AND MOUNTING HEIGHTS ARE PER ARCHITECT PLANS AND FIELD CONDITIONS, COORDINATE WITH ARCHITECT.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
9. REFER TO E111, E112, E103 AND E104 FOR POWER CONNECTIONS TO MECHANICAL AND/OR PLUMBING EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
10. ALL TEL/DATA CABLING TO BE BY SYSTEMS VENDOR; COORDINATE LOCATIONS/ROUTING WITH SYSTEMS VENDOR.
11. PROVIDE DATA CONNECTIONS TO AUDIO VISUAL EQUIPMENT AS PER AUDIO RISER DIAGRAM. COORDINATE WORK WITH AV VENDOR.
12. PROVIDE ALL OUTLETS WITHIN 6FT. OF SINK WITH GFI RECEPTACLES AS PER NEC REQUIREMENTS.
13. UTILIZE PANEL PP-1 (#XX) AND PANEL PP-1A (A##) TO POWER CIRCUITS INDICATED WITHIN THE AREA OF WORK, UON.
14. ASCO TO SHUT DOWN WATER HEATER LOCATED IN ROOM 2015. WHERE REQUIRED. RUN 3#12 IN 3/4"C TO PANEL BP-2 TO POWER ASCO.VERIFY LOCATION OF DEVICE IN FIELD.
15. PROVIDE 2" EC TO SECOND FLOOR CEILING FOR VERTICAL DATA CABLE RUNS FROM MDR RACK TO SERVE NEW DATA OUTLETS ON THE SECOND FLOOR.VERIFY LOCATION OF CONDUIT IN FIELD. UTILIZE J-HOOKS FOR HORIZONTAL CABLE RUNS IN SECOND FLOOR CEILING, U.O.N..
16. DATA CABLES SHALL NOT BE VISIBLE IN EXHIBIT 2008 CEILING. RUN CABLES IN CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING OR DOWN DIRECTLY TO OUTLET IN FULL HEIGHT PARTITIONS.
17. PROVIDE CABLE TRAY FOR CABLE RUNS TO THEATER RACK. COORDINATE REQUIREMENTS WITH WHIRLWIND AND ARCHITECT.
18. REFER TO WHIRLWIND AUDIO/VISUAL DRAWINGS FOR POWER AND COMMUNICATION REQUIREMENTS FOR THEATER AND EXHIBIT SPACE. PROVIDE ALL NECESSARY ANCILLARY COMPONENTS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM INSTALLATION. PROVIDE CABLES, POWER, CONDUITS, ROUGH-INS, ETC. COORDINATE LOCATIONS AND REQUIREMENTS WITH WHIRLWIND AND THE ARCHITECT.
19. CONTRACTOR TO SUBMIT ELECTRICAL ROOM EQUIPMENT LAYOUT WITH DIMENSIONS FOR REVIEW AND APPROVAL PRIOR TO PERFORMING THE WORK.



2 E101 ELECTRICAL ROOM PART PLAN - INSTALL
SCALE: 1/4" = 1'-0"

1/2" 0 1" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
0	02-18-25	RFP SET
3	04-10-25	ADDENDUM NO. 3

Drawn by JL
Checked by SH
Project No. 40034G
Scale
Date 02/18/2025

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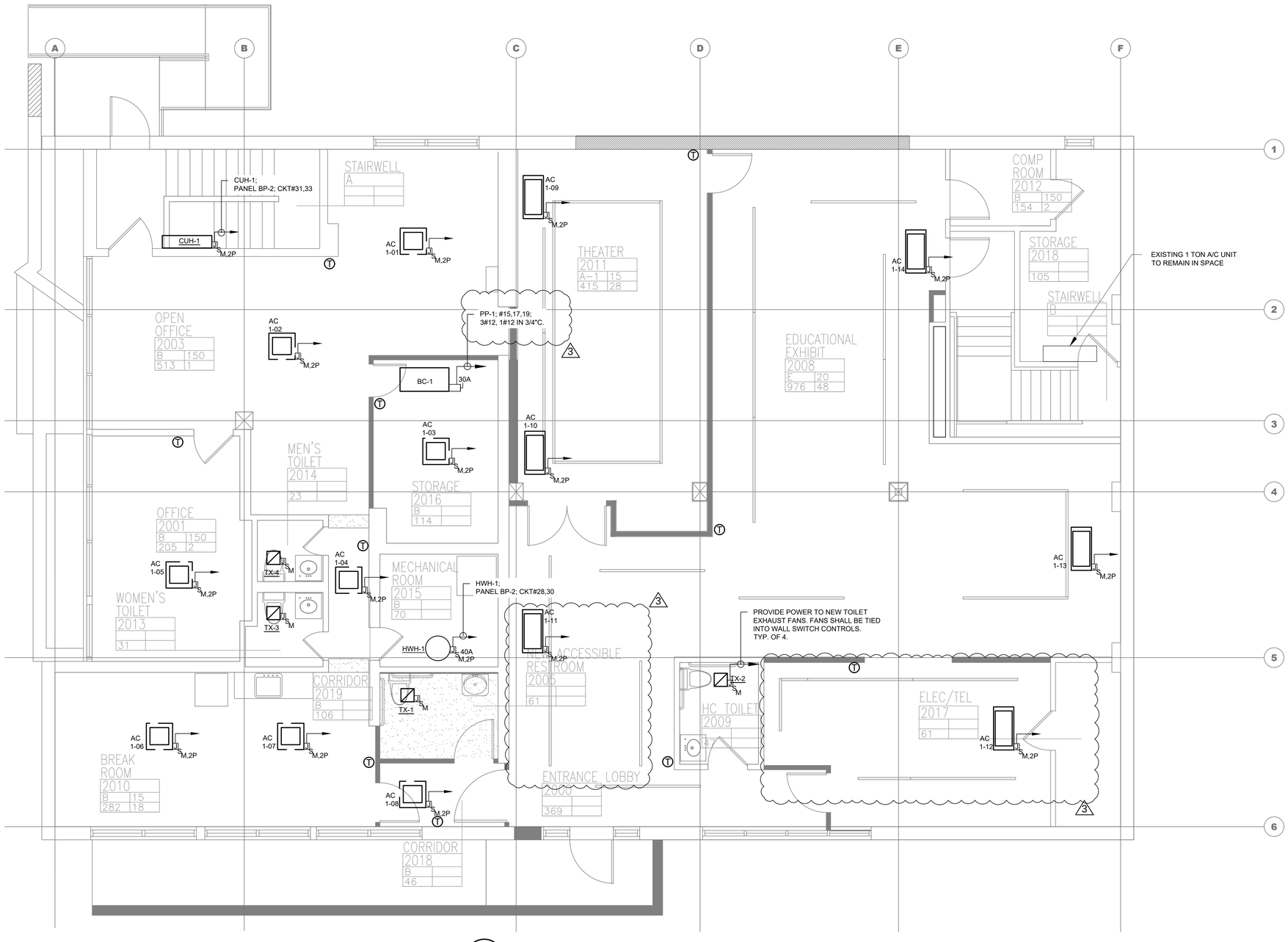
Drawing Title
ELECTRICAL FIRST FLOOR - INSTALLATION

Drawing No.
E101



1 / E111 ELECTRICAL FIRST FLOOR PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS, REFER TO DWG. E001.
2. COORDINATE LOCATION OF BASE BUILDING ELECTRICAL PANELS WITH PROPERTY MANAGER.
3. ALL WIRING SHALL BE 2#12 AWG, 1#12 AWG GND IN 3/4" C, U.O.N.
4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY.
5. UPDATE ALL EXISTING PANELBOARD DIRECTORIES AFFECTED BY NEW WORK. REFER TO PANELBOARD DESIGNATION LEGEND FOR IDENTIFICATION OF PANELBOARDS AND CIRCUITS.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES ARE REQUIRED.
7. ALL OUTLET LOCATION AND MOUNTING HEIGHTS ARE PER ARCHITECT PLANS AND FIELD CONDITIONS, COORDINATE WITH ARCHITECT.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
9. PROVIDE 120V CKT FOR CONTROL PANEL SERVING MECHANICAL EQUIPMENT.
10. REFER TO MECHANICAL SCHEDULES AND ELECTRICAL PANEL SCHEDULES FOR POWER REQUIREMENTS TO EQUIPMENT ON PLAN.

0 1/2 1
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No.	Date	Revisions
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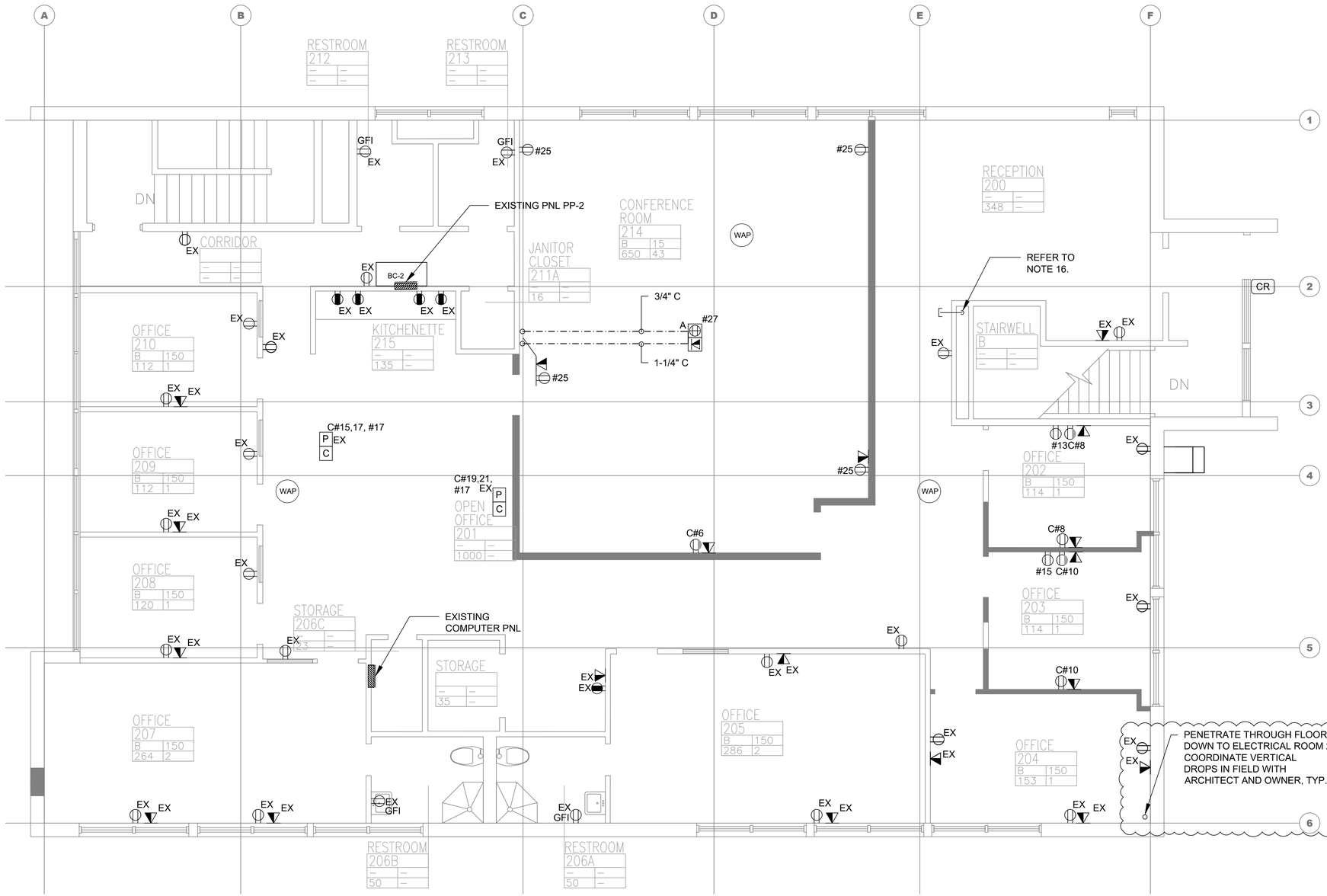
Drawing Title
ELECTRICAL FIRST FLOOR EQUIPMENT - INSTALLATION

Drawing No.
E111



1 E102 ELECTRICAL SECOND FLOOR PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NORTH

PLAN NOTES:

3. ALL WIRING SHALL BE 2#12 AWG, 1#12 AWG GND IN 3/4" C, U.O.N.
4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY.
5. UPDATE ALL EXISTING PANELBOARD DIRECTORIES AFFECTED BY NEW WORK. REFER TO PANELBOARD DESIGNATION LEGEND FOR IDENTIFICATION OF PANELBOARDS AND CIRCUITS.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES ARE REQUIRED.
7. ALL OUTLET LOCATION AND MOUNTING HEIGHTS ARE PER ARCHITECT PLANS AND FIELD CONDITIONS, COORDINATE WITH ARCHITECT.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
9. REFER TO E111, E112, E103 AND E104 FOR POWER CONNECTIONS TO MECHANICAL AND/OR PLUMBING EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
10. ALL TEL/DATA CABLING TO BE BY SYSTEMS VENDOR; COORDINATE LOCATIONS/ROUTING WITH SYSTEMS VENDOR.
11. PROVIDE DATA CONNECTIONS TO AUDIO VISUAL EQUIPMENT AS PER AUDIO RISER DIAGRAM. COORDINATE WORK WITH AV VENDOR.
12. PROVIDE ALL OUTLETS WITHIN 6FT. OF SINK WITH GFI RECEPTACLES AS PER NEC REQUIREMENTS.
13. UTILIZE COMPUTER PANEL (C#XX) TO POWER CIRCUITS INDICATED WITHIN THE AREA OF WORK, UON.
14. PROVIDE 120V CKT CONNECTIONS TO AWNING SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR OUTLET INSTALLATION LOCATIONS. COORDINATE WITH VENDOR TO VERIFY ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
15. PROVIDE EACH WORK STATION WITH THE FOLLOWING: (1) DUPLEX REC FROM PANEL PP-2, (1) DEDICATED DUPLEX RECEPTACLE FROM "COMPUTER PANEL", (2) DATA JACKS.
16. 2" EC WITH (2) PULL STRINGS STUBBED 6" ABOVE ACCESSIBLE HUNG 2ND FLOOR CEILING IN A 90 DEGREE BEND AND TERMINATED CONDUIT ENDS WITH BUSHING.

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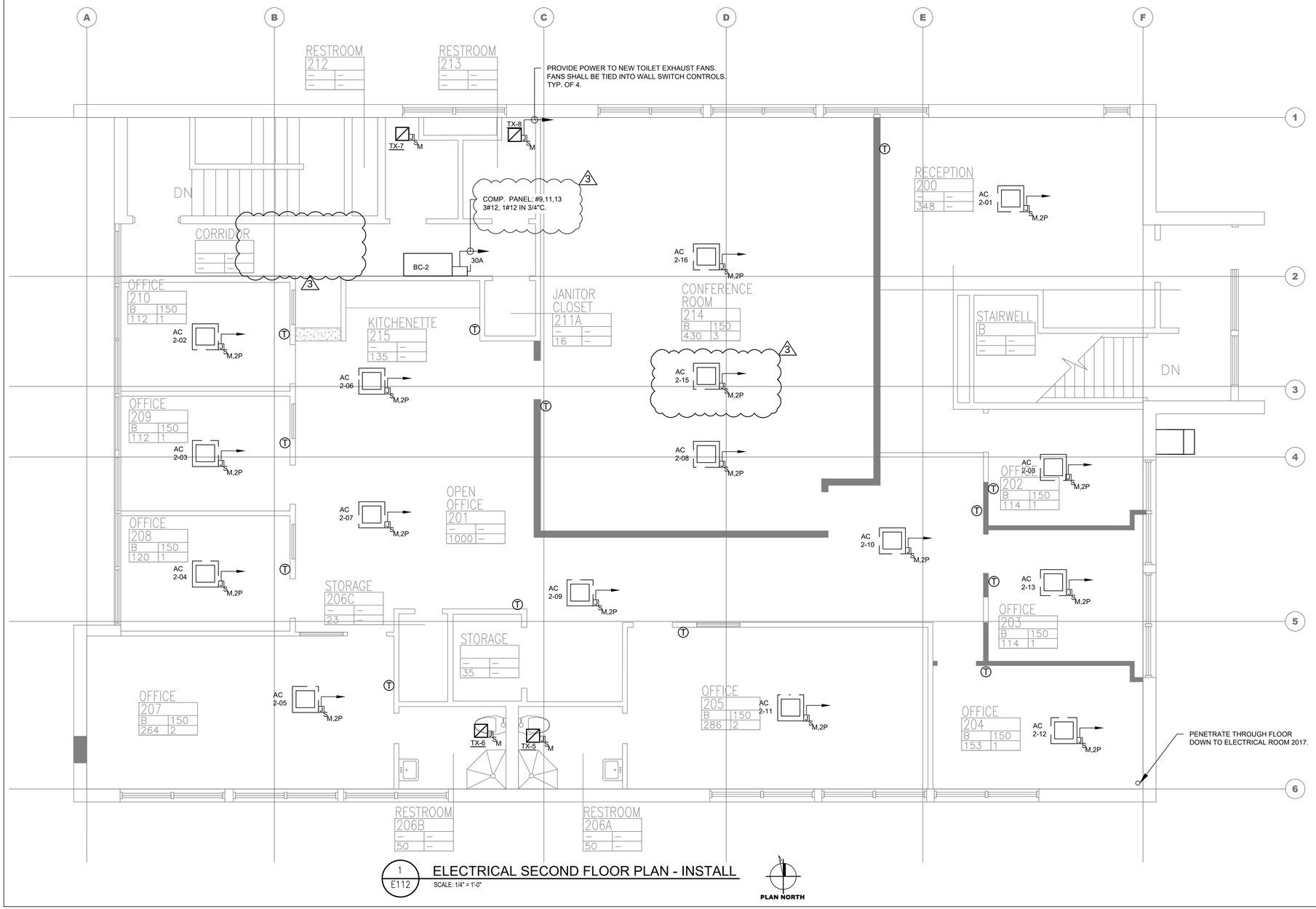
Drawing Title
ELECTRICAL SECOND FLOOR - INSTALLATION

Drawing No.
E102



1 E112 ELECTRICAL SECOND FLOOR PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NORTH

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS, REFER TO DWG. E001.
2. COORDINATE LOCATION OF BASE BUILDING ELECTRICAL PANELS WITH PROPERTY MANAGER.
3. ALL WIRING SHALL BE 2#12 AWG, 1#12 AWG GND IN 3/4" C, U.O.N.
4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY.
5. UPDATE ALL EXISTING PANELBOARD DIRECTORIES AFFECTED BY NEW WORK. REFER TO PANELBOARD DESIGNATION LEGEND FOR IDENTIFICATION OF PANELBOARDS AND CIRCUITS.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES ARE REQUIRED.
7. ALL OUTLET LOCATION AND MOUNTING HEIGHTS ARE PER ARCHITECT PLANS AND FIELD CONDITIONS, COORDINATE WITH ARCHITECT.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
9. PROVIDE 120V CKT FOR CONTROL PANEL SERVING MECHANICAL EQUIPMENT.
10. REFER TO MECHANICAL SCHEDULES AND ELECTRICAL PANEL SCHEDULES FOR POWER REQUIREMENTS TO EQUIPMENT ON PLAN.

0 1/2 1
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No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

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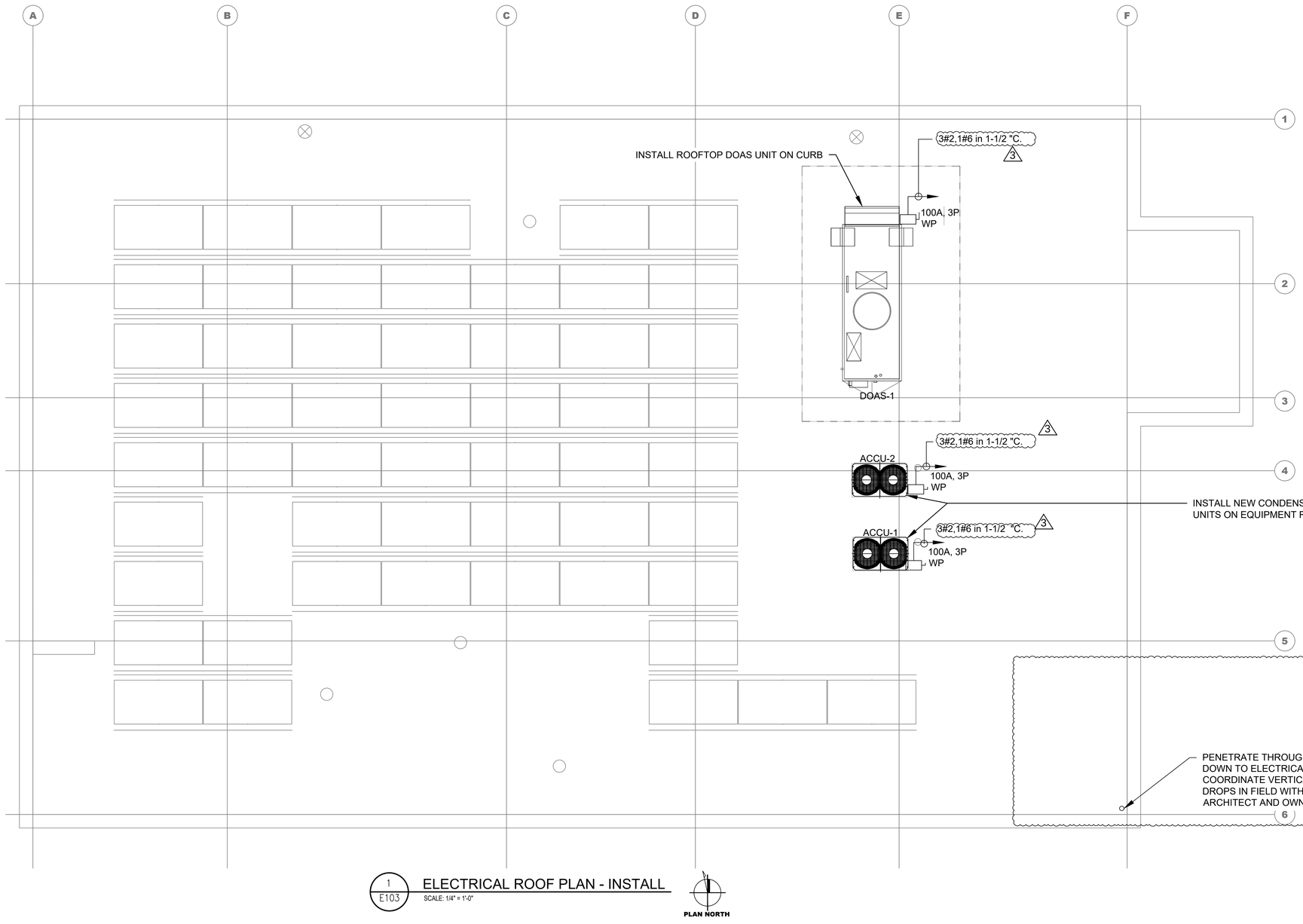
Drawing Title
ELECTRICAL SECOND FLOOR EQUIPMENT - INSTALLATION

Drawing No.
E112



1 / E103 ELECTRICAL ROOF PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NORTH

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS, REFER TO DWG. E001.
2. COORDINATE LOCATION OF BASE BUILDING ELECTRICAL PANELS WITH PROPERTY MANAGER.
3. ALL WIRING SHALL BE 2#12 AWG, 1#12 AWG GND IN 3/4" C, U.O.N.
4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY.
5. UPDATE ALL EXISTING PANELBOARD DIRECTORIES AFFECTED BY NEW WORK. REFER TO PANELBOARD DESIGNATION LEGEND FOR IDENTIFICATION OF PANELBOARDS AND CIRCUITS.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES ARE REQUIRED.
7. ALL OUTLET LOCATION AND MOUNTING HEIGHTS ARE PER ARCHITECT PLANS AND FIELD CONDITIONS, COORDINATE WITH ARCHITECT.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR THERMOSTAT LOCATIONS.
9. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE. THE FIRE RATING OF THE PENETRATION SEALING METHOD SHALL MATCH THE RATING OF THE WALL OR FLOOR. USE AN APPROVED SEALING METHOD WHICH IS ACCEPTABLE TO LOCAL JURISDICTION AND APPROVED BY UL.
10. ALL NEW CONDUITS SHALL BE INSTALLED WITH AESTHETICS IN MIND. PAINT ALL NEW EXPOSED CONDUIT AND BOXES TO MATCH EXISTING CONDITIONS.
11. PROVIDE DURA-BLOCK ROOF MOUNTED CONDUIT SUPPORTS OR APPROVED EQUIV.
12. COORDINATE FINAL LOCATION OF ROOF RECEPTACLES IN FIELD WITH MECHANICAL INSTALLATIONS.

SOLAR SYSTEM NOTES:

1. THE PROPOSED SOLAR PANEL LAYOUT IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY THAT THE SOLAR PANEL LAYOUT SHOWN MATCHES LATEST DESIGN GIVEN BY PHOTOVOLTAIC CONTRACTOR.
2. IN THE EVENT THE PROPOSED LAYOUT SHOWN IS DIFFERENT THAN SHOWN, AMENDED, OR ALTERED BY SOLAR PANEL CONTRACTOR, CONTRACTOR SHALL NOTIFY GPI ENGINEERS TO VERIFY ALLOWABLE LOADS ON EXISTING STRUCTURE.
3. REFER TO PUREPOWER PLANS/STRUCTURAL DRAWINGS FOR CALCULATED ADDITIONAL ALLOWABLE DEAD LOADS TO ASSIST IN THE DESIGN OF THE SOLAR PANEL LAYOUT. IN ADDITIONAL LOAD IS REQUIRED, GPI ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
4. SOLAR PANELS REQUIRING MECHANICAL ATTACHMENTS SHALL BE FASTENED WITH OMG HEAVY DUTY ROOFING FASTENER (#14) SCREWS OR ENGINEER APPROVED EQUIVALENT. LENGTH SHALL BE ASSUMED TO BE 7", BUT SHALL BE FIELD VERIFIED TO FULLY ENGAGE ROOF DECK FOR EACH ATTACHMENT. CONTRACTOR SHALL REFER TO PANELCLAW DRAWINGS FOR DETAILS FOR SOLAR PANEL SUPPORTS & LAYOUT. CONTRACTOR SHALL FIELD TEST OMG HEAVY DUTY ROOFING FASTENER #14 WITH OMG FIELD REPRESENTATIVES FOR ADEQUATE PULL STRENGTH (>300 LBS) PRIOR TO COMPLETING INSTALLATION OF MECHANICAL ATTACHMENTS. IF PULL STRENGTH IS LESS THAN 300 LBS, GPI ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
5. REFER TO PUREPOWER RENEWABE ENERGY SOLAR PHOTOVOLTAIC SYSTEM DRAWINGS FOR ALL POWER DISTRIBUTION ONE LINE AND THREE LINE DRAWINGS. PROVIDE AND INSTALL ALL CONDUIT, WIRING, AND AUXILIARY COMPONENTS NECESSARY FOR A COMPLETE CODE COMPLIANT, FUNCTIONAL SYSTEM INSTALLATION.
6. REFER TO ROOFTOP SOLAR LAYOUT DRAWINGS FOR THE SOLAR ARRAY LAYOUTS.
7. COORDINATE ALL EQUIPMENT LAYOUT WITH PUREPOWER, THEIR SUB-CONSULTANTS AND THE OWNER PRIOR TO COMMENCING ANY WORK.
8. ALL LABELING AND IDENTIFICATION OF THE NEW SOLAR ELECTRICAL EQUIPMENT SHALL BE PROVIDED AS PER NEC REQUIREMENTS.
9. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY FOR THE REPLACEMENT OF EXISTING UTILITY METER WITH NEW BIDIRECTIONAL METER, AS NECESSARY.

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RENOVATION OF ROCKLAND
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HEADQUARTERS AND
CONSTRUCTION OF AN
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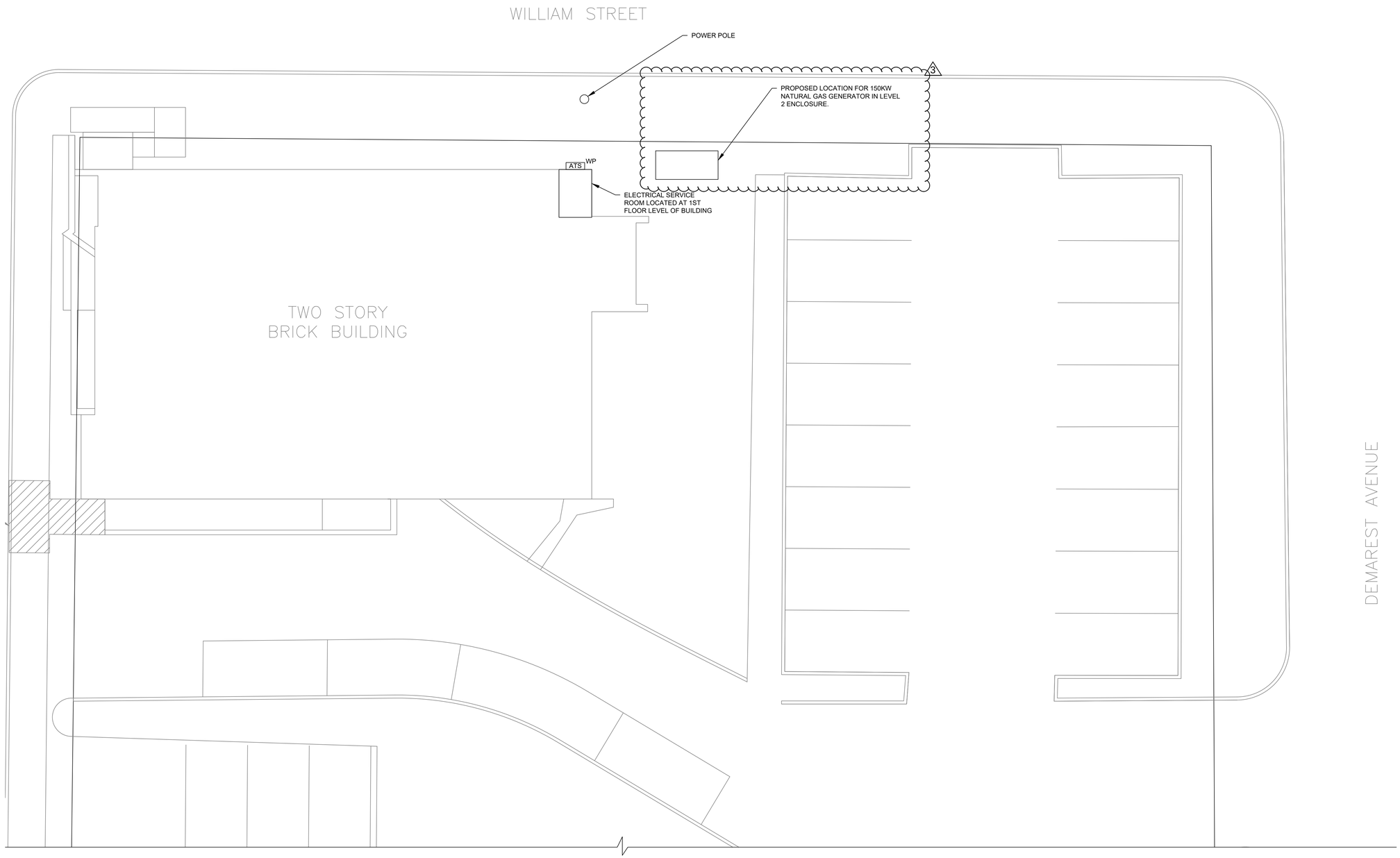
Drawing Title
ELECTRICAL ROOF PLAN - INSTALLATION

Drawing No.
E103



1 / E104 ELECTRICAL SITE PLAN - INSTALL

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

PLAN NORTH

PLAN NOTES:

1. ANY UTILITY SHOWN ON PLANS ARE BASED ON OBSERVATION AT THE SURFACE LEVEL ONLY. THE CONTRACTOR SHALL PROVIDE TONE-OUT/UTILITY LOCATING SERVICES PRIOR TO COMMENCING EXCAVATION IN ANY WORK AREAS.

0 1/2 1

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Date 02/18/2025

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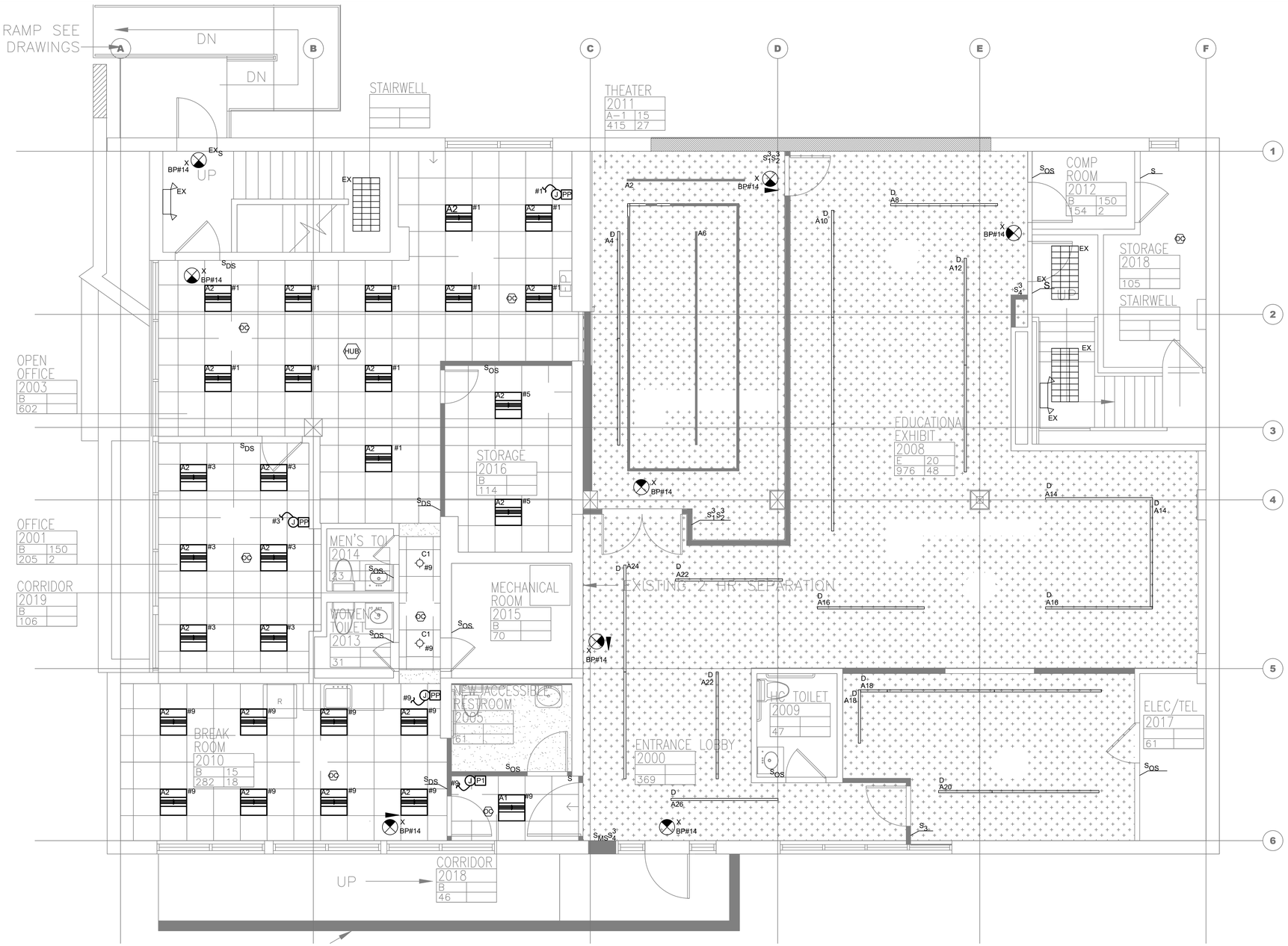
Drawing Title
ELECTRICAL SITE PLAN

Drawing No.
E104



1 / E201 ELECTRICAL FIRST FLOOR PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NORTH

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS, REFER TO DWG. E001.
2. COORDINATE LOCATION OF BASE BUILDING ELECTRICAL PANELS WITH PROPERTY MANAGER.
3. ALL WIRING SHALL BE 2#12 AWG, 1#12 AWG GND IN 3/4" C, U.O.N.
4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY.
5. UPDATE ALL EXISTING PANELBOARD DIRECTORIES AFFECTED BY NEW WORK. REFER TO PANELBOARD DESIGNATION LEGEND FOR IDENTIFICATION OF PANELBOARDS AND CIRCUITS.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES ARE REQUIRED.
7. ALL OUTLET LOCATION AND MOUNTING HEIGHTS ARE PER ARCHITECT PLANS AND FIELD CONDITIONS, COORDINATE WITH ARCHITECT.
8. ALL DATA CABLING TO BE BY SYSTEMS VENDOR; COORDINATE LOCATIONS/ROUTING WITH CABLING VENDOR. REFER TO DWG. E203 FOR LIGHTING CONTROL DEVICE WIRING DIAGRAM INFORMATION. REFER TO WHIRLWIND CREATIVE WIRING DIAGRAM FOR THEATER AND EXHIBIT SPACE LIGHTING REQUIREMENTS.
9. EXTERIOR 150KW GENERATOR SHALL PROVIDE POWER THE ENTIRE BUILDING (INCLUDING LIGHTING) IN THE EVENT OF POWER LOSS. PROVIDE ALL EXIT SIGNS ON SAME CKT.
10. UTILIZE PANEL PP-1 (#X) AND PANEL BP-1(BP#X) TO ENERGIZE ALL LIGHTING CIRCUIT(S) IN AREA OF WORK, U.O.N. PROVIDE NEW LIGHTING CONTROLS AS INDICATED.
11. PROVIDE DAYLIGHT HARVESTING CONTROLS WHERE REQUIRED. NEW CONTROLS SHALL BE WIRELESS. CONTRACTOR SHALL PROVIDE SYSTEM THAT INCLUDES A HUB, CEILING MOUNTED OCCUPANCY/VACANCY/PHOTO SENSORS, POWER PACKS, WALL SWITCHES AND ALL ANCILLARY COMPONENTS AS REQUIRED FOR A COMPLETE SYSTEM INSTALLATION. COORDINATE ADDITIONAL REQUIREMENTS WITH APPROVED SYSTEM MANUFACTURER. REFER TO E203 FOR ADDITIONAL INFORMATION.
12. VERIFY LOCATION OF LIGHTING MANAGEMENT HUB, MODEL QP5 IN FIELD WITH LIGHTING VENDOR, AV VENDOR AND FIELD CONDITIONS.
13. EXHIBIT 2008, ENTRANCE LOBBY 2000 AND THEATER 2011 SHALL BE PROVIDED WITH TIME-SWITCH CONTROLS THAT MEET 2020 NYS ENERGY CONSERVATION CODE REQUIREMENTS. COORDINATE PROGRAMMING OF LIGHTING CONTROL EQUIPMENT WITH VENDOR AND BUILDING REPRESENTATIVE.

LIGHT FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	WATTS	LUMENS	LLF
A1	2 X 2 LINEAR LED LIGHT FIXTURE	ELITE	22-EDGE-LED-4000L-DIM10-MVOLT-35K-85	41.3	4261	0.900
A2	2 X 2 LINEAR LED LIGHT FIXTURE	ELITE	22-EDGE-LED-3000L-DIM10-MVOLT-35K-85	29.6	3196	0.900
A3	2 X 2 LINEAR LED LIGHT FIXTURE	ELITE	22-EDGE-LED-2000L-DIM10-MVOLT-35K-85	19.1	2086	0.900
B1	4" DIA. RECESSED DOWNLIGHT	ELITE	HH4-LED-1500L-DIM10-MVOLT-WD-35K-90-HH4-4501-CL-WH	20	1494	0.850
C1	6" DIA. RECESSED DOWNLIGHT	ELITE	HH6-LED-2000L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH	22.7	2013	0.900
D	TRACK LIGHTING	TIME SQUARE LIGHTING	TRACK: SINGLE CIRCUIT 120V TRACK			
		TIME SQUARE LIGHTING	TRACK LIGHT: SB30			
		VIVID	LAMP: SORRA VIVID PAR30S, E26 LAMP	18.5 / LAMP		
X	EDGE-LIT LED EXIT SIGN (GREEN)	COMPASS	CEL-R1/R2-G-NE	2.94		

ADDITIONAL NOTES:
1. CONTRACTOR TO VERIFY QUANTITY AND TYPE OF ALL FIXTURES AND ASSOCIATED DRIVERS IN FIELD.
2. COORDINATE WITH MANUFACTURERS FOR ALL ANCILLARY COMPONENTS REQUIRED FOR FIXTURES WITH 0-10V DIMMING REQUIREMENTS.
3. PROVIDE FIXTURE D WITH ALL ANCILLARY COMPONENTS REQUIRED FOR FULL TRACK LIGHT FIXTURE INSTALLATION. PROVIDE LAMP WITH ECOSENSE SNAP SYSTEM ACCESSORIES; COORDINATE REQUIREMENTS WITH ARCHITECT.

1/2" = 1" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

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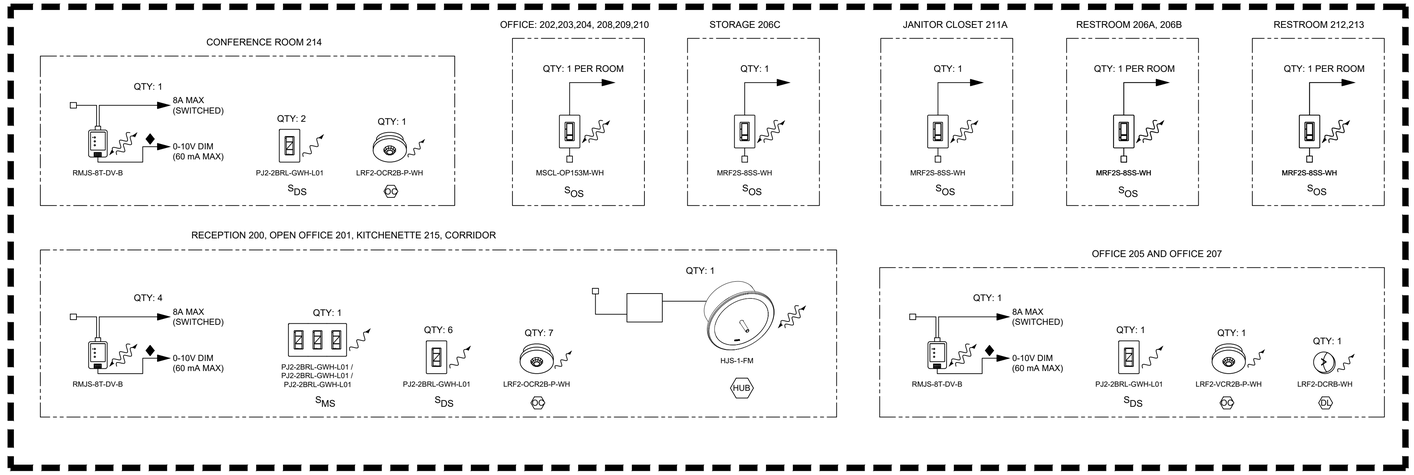
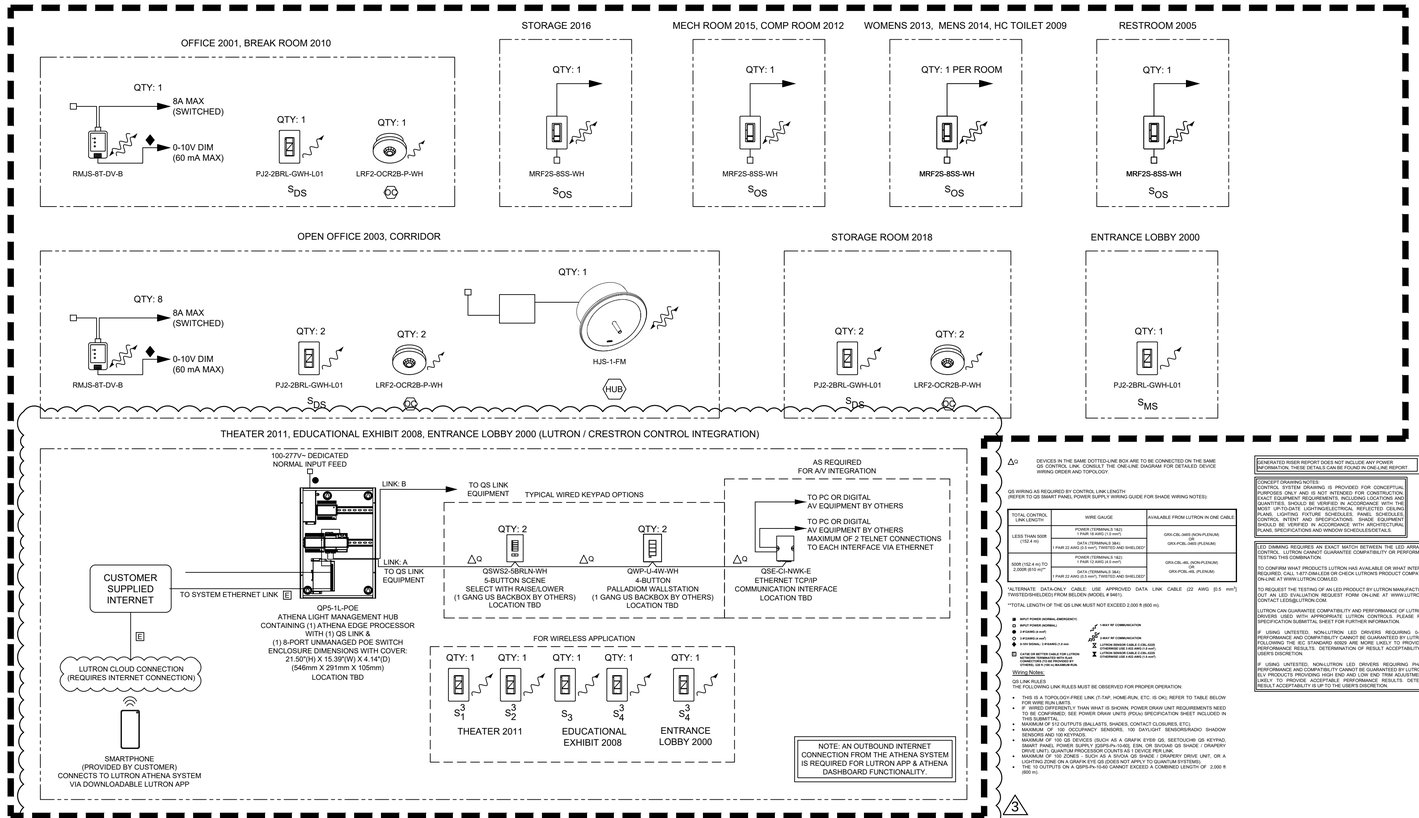
Drawing Title
ELECTRICAL FIRST FLOOR RCP -INSTALLATION

Drawing No.
E201

SECOND FLOOR



FIRST FLOOR


OFFICE 2001, BREAK ROOM 2010
QTY: 1
8A MAX (SWITCHED)
0-10V DIM (60 mA MAX)
RMJS-8T-DV-B
QTY: 1
PJ2-2BRL-GWH-L01
S_{DS}
QTY: 1
LRF2-OCR2B-P-WH
STORAGE 2016
QTY: 1
MRF2S-8SS-WH
S_{OS}
MECH ROOM 2015, COMP ROOM 2012
QTY: 1
MRF2S-8SS-WH
S_{OS}
WOMENS 2013, MENS 2014, HC TOILET 2009
QTY: 1 PER ROOM
MRF2S-8SS-WH
S_{OS}
RESTROOM 2005
QTY: 1
MRF2S-8SS-WH
S_{OS}
OPEN OFFICE 2003, CORRIDOR
QTY: 8
8A MAX (SWITCHED)
0-10V DIM (60 mA MAX)
RMJS-8T-DV-B
QTY: 2
PJ2-2BRL-GWH-L01
S_{DS}
QTY: 2
LRF2-OCR2B-P-WH
QTY: 1
HJS-1-FM
(HUB)
STORAGE ROOM 2018
QTY: 2
PJ2-2BRL-GWH-L01
S_{DS}
QTY: 2
LRF2-OCR2B-P-WH
ENTRANCE LOBBY 2000
QTY: 1
PJ2-2BRL-GWH-L01
S_{MS}
THEATER 2011, EDUCATIONAL EXHIBIT 2008, ENTRANCE LOBBY 2000 (LUTRON / CRESTRON CONTROL INTEGRATION)
100-277V~ DEDICATED NORMAL INPUT FEED
LINK: B
TO QS LINK EQUIPMENT
TYPICAL WIRED KEYPAD OPTIONS
QTY: 2
QSWS2-5BRLN-WH
5-BUTTON SCENE SELECT WITH RAISE/LOWER (1 GANG US BACKBOX BY OTHERS) LOCATION TBD
QTY: 2
QWP-U-4W-WH
4-BUTTON PALLADIOM WALLSTATION (1 GANG US BACKBOX BY OTHERS) LOCATION TBD
AS REQUIRED FOR A/V INTEGRATION
TO PC OR DIGITAL AV EQUIPMENT BY OTHERS
TO PC OR DIGITAL AV EQUIPMENT BY OTHERS MAXIMUM OF 2 TELNET CONNECTIONS TO EACH INTERFACE VIA ETHERNET
QSE-CI-NWK-E
ETHERNET TCP/IP COMMUNICATION INTERFACE LOCATION TBD
CUSTOMER SUPPLIED INTERNET
TO SYSTEM ETHERNET LINK
E
LINK: A
TO QS LINK EQUIPMENT
QP5-1L-POE
ATHENA LIGHT MANAGEMENT HUB CONTAINING (1) ATHENA EDGE PROCESSOR WITH (1) QS LINK & (1) 8-PORT UNMANAGED POE SWITCH ENCLOSURE DIMENSIONS WITH COVER: 21.50"(H) X 15.39"(W) X 4.14"(D) (546mm X 291mm X 105mm) LOCATION TBD
LUTRON CLOUD CONNECTION (REQUIRES INTERNET CONNECTION)
SMARTPHONE (PROVIDED BY CUSTOMER) CONNECTS TO LUTRON ATHENA SYSTEM VIA DOWNLOADABLE LUTRON APP
FOR WIRELESS APPLICATION
QTY: 1
S^3_1
THEATER 2011
QTY: 1
S^3_2
QTY: 1
S^3_3
EDUCATIONAL EXHIBIT 2008
QTY: 1
S^3_4
ENTRANCE LOBBY 2000
NOTE: AN OUTBOUND INTERNET CONNECTION FROM THE ATHENA SYSTEM IS REQUIRED FOR LUTRON APP & ATHENA DASHBOARD FUNCTIONALITY.
△2 DEVICES IN THE SAME DOTTED-LINE BOX ARE TO BE CONNECTED ON THE SAME QS CONTROL LINK. CONSULT THE ONE-LINE DIAGRAM FOR DETAILED DEVICE WIRING ORDER AND TOPOLOGY.
QS WIRING AS REQUIRED BY CONTROL LINK LENGTH
REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES):
TOTAL CONTROL LINK LENGTH | WIRE GAUGE | AVAILABLE FROM LUTRON IN ONE CABLE
LESS THAN 500ft (152.4 m) | POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.5 mm²) | DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED* | QRX-CBL-246S (NON-PLENUM) OR QRX-PCBL-246S (PLENUM)
500ft (152.4 m) TO 2,000ft (610 m)** | POWER (TERMINALS 1&2): 1 PAIR 12 AWG (2.5 mm²) | DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED* | QRX-CBL-48L (NON-PLENUM) OR QRX-PCBL-48L (PLENUM)
*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (9GE6L # 6461).
**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).
1 WAY OF COMMUNICATION
2 WAY OF COMMUNICATION
LUTRON SENSOR CABLE 2 COND, #22G
LUTRON SENSOR CABLE 4 COND, #22G
ETHERNET (SEE LRES AND LCI FOR MORE)
Wiring Notes:
QS Link RULES
THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:
• THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK). REFER TO TABLE BELOW FOR WIRING LIMITS.
• IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED. SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET INCLUDED IN THIS SUBMITTAL.
• MAXIMUM OF 512 OUTPUTS (BALLASTS, SHADES, CONTACT CLOSURES, ETC).
• MAXIMUM OF 32 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS/RADIO SHADOW SENSORS AND 100 KEYPADS.
• MAXIMUM OF 100 QS DEVICES (SUCH AS A GRAFIK EYE® QS, SEETOUCH® QS KEYPAD, SMART PANEL, POWER SUPPLY (QSPS-PA-10-M), EBN, OR SIVOIA® QS SHADE / DRAPERY DRIVE UNIT). QUANTUM PROCESSOR COUNTS AS 1 DEVICE PER LINK.
• MAXIMUM OF 50 QS DEVICES (SUCH AS A GRAFIK EYE® QS, SEETOUCH® DRIVE UNIT, OR A LIGHTING ZONE ON A GRAFIK EYE QS (DOES NOT APPLY TO QUANTUM SYSTEMS).
• THE 10 OUTPUTS ON A QSPS-PA-10-60 CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
3
1 E203 ELECTRICAL - LIGHTING CONTROL SYSTEM
SCALE: NONE

DYNAMIC RISER DIAGRAM

GENERAL NOTES

1. REFER TO SUBMITTAL SYSTEM LAYOUT REPORT AND ONE-LINE (IF AVAILABLE) FOR DEVICE WIRING INFORMATION AND DETAILS. OBTAIN DOCUMENTS FROM APPROVED SYSTEM MANUFACTURER.
2. REFER TO PANEL AND FIXTURE SCHEDULES FOR ADDITIONAL LOAD INFORMATION.
3. REFER TO SUBMITTAL SYSTEM LAYOUT OR LOOP SCHEDULE REPORTS FOR MORE INFORMATION ABOUT FIXTURES ON THE DIGITAL LOOP
4. PROVIDE LUTRON MANUFACTURER RECOMMENDED DIMMING CONTROL PACKAGE COMPATIBLE FOR SEAMLESS INTEGRATION WITH CRESTRON SYSTEM CONTROLS FOR THE THEATER AND EXHIBIT SPACE. PROVIDE ALL REQUIRED SWITCHES, MODULES, AND ANCILLARY DEVICES AS REQUIRED FOR THEATER AND EXHIBIT SPACE LIGHTING CONTROLS. FINAL DIMMING CONTROLS PACKAGE SHALL BE BY LUTRON IN COLLABORATION WITH CRESTRON.

LUTRON SERVICES

QTY	SERVICE TITLE (MODEL NUMBER)	SERVICE DESCRIPTION
		THE QUANTITY OF SERVICES BELOW ARE TO BE INCLUDED AS PART OF THIS PROJECTS SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC DOCUMENTS
		PRE-STARTUP ELECTIVE SERVICES
	REMOTE PRE-WIRE SERVICE (LSC-PREWIRE-RMTE)	A REMOTE SESSION WHERE THE LUTRON FIELD SERVICE ENGINEER REVIEWS THE LUTRON SUBMITTAL PACKAGE (PARTICULARLY THE ONE-LINE) AND DEVICE SPECIFICATIONS WITH THE ELECTRICAL CONTRACTOR, ANSWERS QUESTIONS, AND REVIEWS THE CONSTRUCTION TIMELINE ALONG WITH BEST PRACTICES FOR INSTALLATION. THIS SESSION IS DELIVERED USING A VIRTUAL SCREEN SHARING PLATFORM AND SHOULD NOT EXCEED 4-HOURS.
1	ONSITE PRE-WIRE VISIT (LSC-PREWIRE-ONSIT)	AN ONSITE VISIT WHERE THE LUTRON FIELD SERVICE ENGINEER REVIEWS THE LUTRON SUBMITTAL PACKAGE (PARTICULARLY THE ONE-LINE) AND DEVICE SPECIFICATIONS WITH THE ELECTRICAL CONTRACTOR, ANSWERS QUESTIONS, AND REVIEWS THE CONSTRUCTION TIMELINE ALONG WITH BEST PRACTICES FOR INSTALLATION.
	POST-WIRE VERIFICATION VISIT (LSC-POSTWIRE-VRT)	AN ONSITE WALK THROUGH BY A LUTRON FIELD SERVICE ENGINEER WITH THE ELECTRICAL CONTRACTOR TO CONFIRM THE LUTRON EQUIPMENT IS WIRED AND POWERED PER THE LUTRON SUBMITTAL. THE LUTRON EQUIPMENT SHOULD BE ENERGIZED EFFICIENTLY PRIOR TO LUTRON RETURNING TO SITE FOR THE PHYSICAL START-UP OF THE SYSTEM. THIS VISIT IS INTENDED AS A HIGH LEVEL VERIFICATION/CONFIRMATION THAT THE LUTRON EQUIPMENT IS WIRED AND POWERED; IT DOES NOT INCLUDE WIRING TROUBLESHOOTING, OR VALIDATION THAT THE SYSTEM WAS INSTALLED PER THE APPROVED SUBMITTAL. THIS SESSION IS ALSO USED TO CONFIRM OVERALL WIRING TOPOLOGIES ARE BASIC SYSTEM FUNCTIONALITY PRIOR TO START-UP AND WILL NOTE ANY DEFICIENCIES FOR THE ELECTRICAL CONTRACTOR. THE LUTRON SYSTEM MUST BE WIRED AND POWERED PRIOR TO THIS SITE VISIT.
	SENSOR LAYOUT & TUNING (LSC-SENS-LT)	LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT AND PERFORMANCE BY CREATING SENSOR LAYOUTS AND COORDINATING SENSOR PLACEMENT BEFORE AND AFTER INSTALLATION. ONCE THE BUILDING IS OCCUPIED, LUTRON WILL RETURN UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING.
	SYSTEM & NETWORK CONSULTATION (LSC-SYS-CONSULT)	A CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPERATION AND OBTAIN NECESSARY INFORMATION FOR INTEGRATION. THIS SESSION IS INTENDED TO BE HELD AFTER ECO SUBMITTAL. DO NOT SCHEDULE ANY OF THE CONSULTATION FOLLOWING THIRD PARTY SYSTEMS: BMS, BAS, IT, HVAC-LUTRON BRIDGING, SACNET, ISY, OR ENERGY DASHBOARDS.
		STARTUP ELECTIVE SERVICES (THESE SERVICES ARE ADDITIONAL TO YOUR SPECIFIED STARTUP BASED ON YOUR REQUIREMENTS)
	ONSITE SCENE & LEVEL TUNING (LSC-AY-VISIT)	AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW THE DESIGN INTENT, FINE-TUNE THE SCENE LEVEL PROGRAMMING, AND MAKE ADJUSTMENTS TO TIMECLOCKS.
	DYNAMIC WASTE PROGRAMMING PACKAGE (LSC-DWP-PKG)	A SPECIFIER DRIVEN PACKAGE WHICH INCLUDES ONE (1) POST WIRE TERMINATION VISIT (FOR WIRE VERIFICATION), TWO (2) VISITS TO PERFORM FINE TUNING OF FIXTURES AND PROGRAMMING ADJUSTMENTS PER THE SPECIFIER OR A LIGHTING DESIGNERS AND/OR A PRE-DETERMINED SEQUENCE OF OPERATIONS PROVIDED BY THE SPECIFIER. THE FIRST FINE-TUNING VISIT IS DURING NORMAL BUSINESS HOURS AND THE SECOND VISIT IS AN AFTER HOUR SITE VISIT. ALSO INCLUDED IS THE PACKAGE IS A TWO-HOUR REMOTE SESSION FOR MINOR ADJUSTMENTS. REMOTE NETWORK ACCESS IS REQUIRED FOR THE REMOTE TWO HOUR SESSION. THE SYSTEM MUST BE ABLE TO CONNECT TO THE INTERNET.
	ONSITE PERFORMANCE-VERIFICATION (WALKTHROUGH (LSC-PV-WTHRO)	AN ONSITE VALIDATION WITH FACILITY REPRESENTATIVE OR PROJECT COMMISSIONING AGENTS TO DEMONSTRATE THAT THE SYSTEM FUNCTIONALITY MEETS THE DESIGN INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES: CONSULTATION/TRAINING DEMOS, FUNCTIONAL TESTING/WALKTHRU, OR INVENTORY OF LUTRON EQUIPMENT.
	SYSTEM PERFORMANCE-VERIFICATION DOCUMENTATION (LSC-SPV-DOC)	COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRON EQUIPMENT HAS BEEN THOROUGHLY TESTED. IT SUPPORTS THE DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS.
	SYSTEM PERFORMANCE-VERIFICATION DOCUMENTATION (LSC-SPVDOC-TDA)	DOCUMENTS THE TITLE 24 ACCEPTANCE TESTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM AND THE TEST & RESULTS. DOCUMENTATION IS TO BE FILLED OUT AS A SEPARATE VISIT. AFTER ONSITE STARTUP BY LUTRON'S CALIFORNIA CERTIFIED ACCT TECHNICIAN. UPON COMPLETION, A LUTRON SERVICES REPRESENTATIVE WILL SUPPLY THE JOB-SPECIFIC TITLE 24 DOCUMENTATION THAT SHOWS THE RESULTS OF THE LIGHTING CONTROL SYSTEM TESTING.
	AFTER HOURS STARTUP (LSC-AH-SU)	STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM - 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK DOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM - MONDAY 7:00AM).
		POST-STARTUP ELECTIVE SERVICES
	CUSTOMER SYSTEM ORIENTATION VISIT (LSC-CSO-VST)	AN ON-SITE VISIT WHERE THE LUTRON FIELD SERVICE ENGINEER COMES OUT 60-90 DAYS POST-OCCUPANCY TO GO OVER THE LUTRON SYSTEM COMPONENTS WITH THE SYSTEM USER AND PERFORM A TROUBLESHOOTING. THE FIELD SERVICE ENGINEER WILL ENSURE THE SYSTEM USER KNOWS HOW TO MANAGE WITHIN THEIR SYSTEM AND MAKE APPROPRIATE ADJUSTMENTS. THEY WILL ALSO PROVIDE A LEAVE BEHIND SYSTEM OPTIMIZATION RECOMMENDATION REPORT.
	TRAINING VISIT (LSC-TRAINING-SPT)	CUSTOMER-SITE SOLUTION TRAINING - THIS TRAINING VISIT IS PROVIDED BY A LUTRON SERVICES REPRESENTATIVE TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN THE LIGHTING CONTROL SYSTEM. QUANTITY DICTATES THE NUMBER OF VISITS PURCHASED.
	SYSTEM OPTIMIZATION (LSC-SYSOPT-SPT)	AN ONSITE CONSULTATIVE VISIT TO IDENTIFY AND IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE ADDITIONAL ENERGY AND CREATE A MORE PRODUCTIVE WORK ENVIRONMENT.
	PREVENTATIVE MAINTENANCE VISIT (LSC-PVD-MAINT)	VISIT TO PERFORM PREVENTATIVE MAINTENANCE, MINOR REPROGRAMMING, AND CONDUCT SYSTEM TRAINING. THE LUTRON SERVICE REPRESENTATIVE WILL REVIEW SERVICE OPTIONS WITH THE END-USER PRIOR TO BEGINNING ANY WORK. THE LUTRON SERVICE REPRESENTATIVE WILL PROVIDE A REPORT OF WORK PERFORMED AND ANY RECOMMENDATIONS FOR FUTURE SERVICE. QUANTITY DICTATES THE NUMBER OF DAYS PURCHASED.
	ADDITIONAL DAY OF SERVICE (LSC-DAY-ADDL-CQ)	ONSITE DAY OF SERVICE BY A LUTRON SERVICE REPRESENTATIVE.
	REMOTE SUPPLEMENTAL TRAINING (LSC-TRAIN-RMTE)	A SUPPLEMENTAL REMOTE TRAINING FOR SITE PERSONNEL. THIS SERVICE IS AVAILABLE FOR LUTRON QUANTUM AND ATHENA SYSTEMS. THIS TRAINING IS NOT TO EXCEED 4 HOURS. REMOTE NETWORK ACCESS IS REQUIRED FOR THIS VISIT AND THE SYSTEM MUST BE ABLE TO CONNECT TO THE INTERNET.
	REMOTE PROGRAMMING ASSISTANCE (LSC-PROG-ASST-RMTE)	ONE 4-HOUR REMOTE PROGRAMMING ASSISTANCE SESSION TO SAVE PROGRAMMING ADJUSTMENTS PER THE DIRECTION OF A FACILITY MANAGER OR SPECIFIER. THIS SERVICE IS AVAILABLE FOR LUTRON QUANTUM AND ATHENA SYSTEMS. REMOTE NETWORK ACCESS IS REQUIRED FOR THIS VISIT AND THE SYSTEM MUST BE ABLE TO CONNECT TO THE INTERNET.
		MAINTENANCE & SUPPORT SERVICES
	SOFTWARE MAINTENANCE AGREEMENT (LSC-SMA-RF)	PROVIDES COMPATIBILITY TESTING RESULTS OF QUANTUM WITH OPERATING SYSTEM PATCHES AND WEB BROWSER UPDATES. INCLUDES AN ELECTIVE FREE SOFTWARE UPGRADE LICENSE.
1	COMMERCIAL SYSTEMS 3-YEAR EXTENDED WARRANTY (LSC-CW)	A 3-YEAR SYSTEM WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR OVERSEAS WITH A FIRST-AVAILABLE RESPONSE TIME.
	ENHANCED SILVER (LSC-ESW)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR OVERSEAS WITH A FIRST-AVAILABLE RESPONSE TIME; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	ENHANCED GOLD (LSC-EGW)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 72-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-8 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	ENHANCED PLATINUM (LSC-EPW)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 24-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-8 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	SILVER TECHNOLOGY SUPPORT PLAN (LSC-SELP-PK)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME.
	GOLD TECHNOLOGY SUPPORT PLAN (LSC-GOLD-PK)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.
	PLATINUM TECHNOLOGY SUPPORT PLAN (LSC-PLAT-SW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.
	PREVENTIVE MAINTENANCE WRITER (LSC-SCH-MAINT)	SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPORT PLAN.
		PLEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMATION.

GENERATED RISER REPORT DOES NOT INCLUDE ANY POWER INFORMATION. THESE DETAILS CAN BE FOUND IN ONE-LINE REPORT.

CONCEPT DRAWING NOTES:
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ALL DEVICE COUNTS, INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED BY ELECTRICAL CONTRACTOR. MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES AND SPECIFICATIONS FOR THE PROJECT AT THE TIME OF BIDDING SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIMLEDS OR CHECK LUTRONS PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON H-LUME LED DRIVERS WITH LUTRON QUANTUM SYSTEMS, LUTRON CONTROLS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USERS DISCRETION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. H-LUME OR RLV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USERS DISCRETION.

No.	Date	Revisions
0	02-18-25	RFP SET
3	04-10-25	ADDENDUM NO. 3

Drawn by JL
Checked by SH
Project No. 400346
Scale NONE
Date 02/18/2025

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RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE
172 MAIN STREET
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Drawing Title
ELECTRICAL LIGHTING CONTROLS

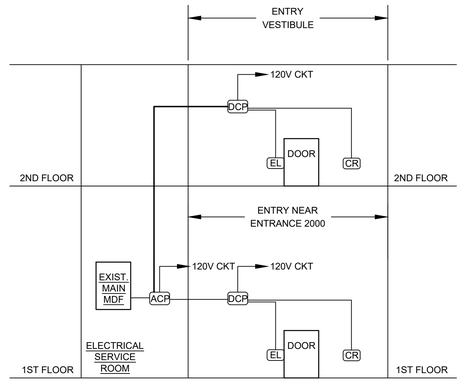
Drawing No.
E203

SYSTEM RISER PLAN NOTES:

1. RISER DIAGRAMS PRESENTED ARE NOT POINT- TO - POINT WIRING DIAGRAMS. CONTRACTOR SHALL OBTAIN PROPER POINT- TO- POINT WIRING DIAGRAM FROM RESPECTIVE SYSTEM MANUFACTURER.
2. CIRCUITING/ LOOPS OF SYSTEM DEVICES ARE SHOWN FOR REFERENCE ONLY. FIELD CONDITIONS PREVAIL. EXACT CIRCUITING/LOOPS OF DEVICES MIGHT DIFFER FROM REFERENCES INDICATED. FIELD VERIFY AND COORDINATE WITH MANUFACTURER FOR EXACT CIRCUITING/LOOPS AND ADDITIONAL INFORMATION.

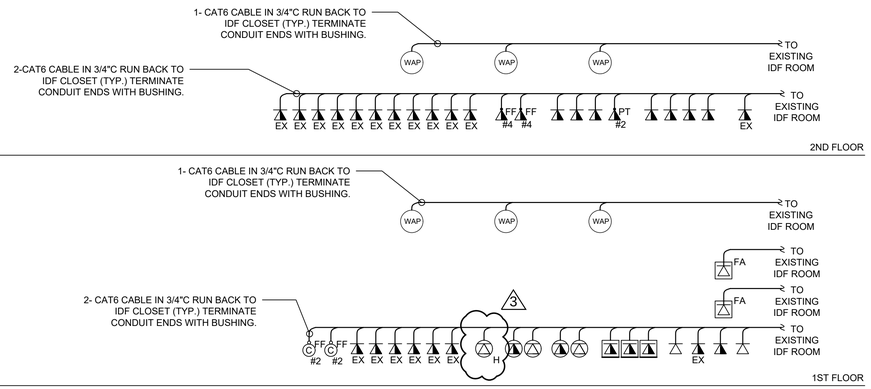
LEGEND:

DEMO	·····
EXISTING	– – – – – –
NEW	———



1 E302 SECURITY ACCESS CONTROL DETAIL

SCALE: NONE



2 E302 PARTIAL DATA RISER

SECURITY SYSTEM NOTES:

1. RISER DIAGRAM IS FOR SCHEMATIC DESIGN PURPOSE ONLY. FINAL QUANTITIES ARE INDICATED ON FLOOR PLANS. COORDINATE WITH EXISTING SYSTEM VENDOR FOR ALL ANCILLARY COMPONENTS REQUIRED FOR THE INSTALLATION OF ADDITIONAL DEVICES INTO THE EXISTING COMMUNICATIONS DATA SYSTEM.
2. CIRCUITING OF SYSTEM DEVICES ARE SHOWN FOR REFERENCE ONLY; FIELD CONDITIONS PREVAIL. FIELD VERIFY AND COORDINATE WITH MANUFACTURER FOR EXACT CIRCUITING AND ADDITIONAL INFORMATION.
3. VERIFY LOCATION OF EXISTING SYSTEM RACKS AND MAIN CONTROL PANELS TO SERVE NEW EQUIPMENT AND THEIR ASSOCIATED COMPONENTS.
4. ALL DATA CONDUIT ENDS SHALL BE TERMINATED WITH BUSHINGS.
5. UTILIZE COMPRESSION TYPE FITTINGS WITH EMT CONDUIT INSTALLATIONS; SET SCREW TYPE IS NOT PERMITTED.
6. ALL NEW DEVICE WIRING SHALL RUN IN 3/4" EMT TO BACKBOX; U.O.N.
7. COORDINATE WITH EXISTING SECURITY SYSTEM VENDOR FOR TERMINATION OF CABLES TO NEW MAIN ACCESS CONTROL PANEL. SECURITY VENDOR TO PROGRAM SYSTEM TO ACCOMMODATE CHANGES. VERIFY LOCATION OF MAIN ACCESS CONTROL PANEL IN FIELD WITH BUILDING REPRESENTATIVE.
8. CAT6 CABLES AND FIBER OPTIC CABLES SHALL BE TESTED AND TERMINATED WHERE INSTALLED.
9. PROVIDE 6"X6"X4" DEEP JUNCTION BOX SURFACE MOUNTED ABOVE DOOR ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.
10. STUB CONDUIT INTO HEAD OF DOOR FRAME 6" FROM STRIKE SIDE OF FRAME FOR DOOR POSITION SWITCH; WHERE APPLICABLE.
11. PROVIDE 15/16" DIA. X 1-5/8" DEEP HOLE IN TOP OF DOOR FOR CONCEALED DOOR POSITION SWITCH MAGNET.
12. WHERE ELECTRIC STRIKE IS INSTALLED, STUB CONDUIT DOWN FRAME TO 2" ABOVE CUT OUT FOR ELECTRIC STRIKE INSTALLATION.
13. PROVIDE 4"X4" X2-1/8" DEEP BOX WITH SINGLE GANG REDUCER PLATE FLUSH MOUNTED 3'-2" A.F.F FOR CARD READER; FINAL HEIGHT PER ARCHITECTURAL DRAWINGS.
14. PROVIDE CONDUITS AND ROUGH-INS FOR SECURITY ACCESS CONTROL SYSTEM. PROVIDE CABLING AND TERMINATIONS AS REQUIRED.

TELE/DATA SYSTEM PLAN NOTES:

1. ALL NEW DEVICE WIRING (CAT6 CABLE) SHALL RUN IN 3/4" EMT TO A SURFACE-MOUNTED METALLIC RACEWAY WHEN MOUNTED UNDER FURNITURE; DEVICE WIRING SHALL RUN VIA CABLE TRAY WHEN RAN ABOVE CEILING.
2. RISER DIAGRAM IS FOR SCHEMATIC DESIGN PURPOSE ONLY. FINAL QUANTITIES ARE INDICATED ON FLOOR PLANS. COORDINATE WITH EXISTING SYSTEM VENDOR FOR ALL ANCILLARY COMPONENTS REQUIRED FOR THE INSTALLATION OF ADDITIONAL DEVICES INTO THE EXISTING COMMUNICATIONS DATA SYSTEM.
3. VERIFY LOCATION IN FIELD OF PANELS, HUBS, ETC. SERVING EXISTING REMOVED DEVICES, UTILIZE NEAREST AVAILABLE PATCH PANELS TO SERVE DEVICES.
4. VERIFY LOCATION OF IDF RACK IN FIELD SERVING RELOCATED EQUIPMENT.
5. SUPERSCRIPT "FF" DENOTES FURNITURE FEED. SUBSCRIPT "#X" DENOTES QTY OF DATA DROPS TO FURNITURE FEED.
6. SUPERSCRIPT "PT" DENOTES FLOOR MOUNTED POKE-THRU DEVICE.
7. SUPERSCRIPT "FA" DENOTES DEDICATED FIRE ALARM PHONE LINES CONNECTED TO THE FIRE ALARM DACT.

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

Drawn by JL
Checked by SH
Project No. 400346
Scale NONE
Date 02/18/2025

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RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE

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Drawing Title
ELECTRICAL SYSTEMS
PARTIAL RISERS

Drawing No.
E302

PANEL SCHEDULE												
PANEL NAME:	DSB	**LOCATION:**	ELECTRICAL DISTRIBUTION ROOM 2017					**MOUNTING:**	FREE STANDING			
VOLTAGE/PHASE:	208/120V, 3-PH, 4W	**PANEL (AMP)**	400A					**FREQUENCY:**	60 Hz			
PANEL SHORT CIRCUIT RATING(KA):	200 KAIC	**FEEDER SIZE**	2 SETS 4#4/0, 1#2 GND IN (2) 2"C.					**FEEDING SOURCE:**	400A MAIN DISC. SW			
MAIN BREAKER TYPE	MLO	**MAIN BREAKER RATING (A):**	-					**BRANCH C.B TYPE**	BOLT-ON			
Load Designation	**Wiring**	**Phase Load in VA**							**Wiring**	**Load Designation**		
		C/B	**CT NO**	**AØ**	**BØ**	**CØ**	**CT NO**	**C/B**				
ACCU-1	3#2, 1#6G IN 1-1/2"C.	90	1	6725			2		3#2, 1#6G IN 1-1/2"C.	ACCU-2		
				6725								
			3		6725		4	90				
					6725							
			5			6725	6					
PP-1A	4#2, 1#6G IN 1-1/2"C.	100	7	2934			8		3#2, 1#6G IN 1-1/2"C.	DOAS-1		
				7601				90				
			9		2935.5		10					
					7601							
			11			3154	12					
						7601						
EXISTING CIRCUIT BREAKER	4#2, 1#6G IN 1-1/2"C.	100	13	3000			14		4#2, 1#6G IN 1-1/2"C.	EXISTING CIRCUIT BREAKER		
				4320								
			15		3000		16	100				
					4320							
			17			3000	18					
						4320						
EXISTING PANEL BP-2A (MECH ROOM 2015)	4#4, 1#8G IN 1-1/4"C.	60	19	2400			20		4#2, 1#6G IN 1-1/2"C.	EXISTING PANEL PP-2 (2ND FLR CORRIDOR)		
				4256								
			21		1520		22	100				
					4366.4							
			23			2100	24					
						4203.8						
EXISTING PANEL BP-1	4#2, 1#6G IN 1-1/2"C.	100	25	6442			26		4#2, 1#6G IN 1-1/2"C.	EXISTING PANEL BP-2		
				8964								
			27		5602		28	100				
					9942							
			29			7504	30					
						9830						
PANEL PP-1 (RELOCATED RECESSED)	4#4/0, 1#4G IN 2-1/2"C.	200	31	6442			32		4#4/0, 1#4G IN 2-1/2"C.	EXISTING COMPUTER PANEL (2ND FLR CLOSET)		
				8964								
			33		5602		34	200				
					9942							
			35			7504	36					
						9830						
SPARE		200	37				38	200		SPARE		
			39				40					
			41									
							42					
CONNECTED LOAD PER PHASE IN VA				68773	68281	72497	**PANEL TYPE: NEMA 1** **MOUNTING: FREE STANDING**					
TOTAL CONNECTED LOAD IN KVA				209.5507			**COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR**					
TOTAL DEMAND LOAD IN AMPS				378.09								

PANEL SCHEDULE												
PANEL NAME:	BP-1 (EXISTING)	**LOCATION:**	ELECTRICAL DISTRIBUTION ROOM 2017					**MOUNTING:**	SURFACE			
VOLTAGE/PHASE:	208/120V	**PANEL (AMP)**	200A					**FREQUENCY:**	60 Hz			
PANEL SHORT CIRCUIT RATING(KA):	EXISTING	**FEEDER SIZE**	**4#2,1#6 GND IN 1-1/2"C.**					**FEEDING SOURCE:**	DSB			
MAIN BREAKER TYPE	MCB	**MAIN BREAKER RATING (A):**	**100A****					**BRANCH C.B TYPE**	BOLT-ON			
Load Designation	**Wiring**	**Phase Load in VA**							**Wiring**	**Load Designation**		
		C/B (A)	**CT NO**	**AØ**	**BØ**	**CØ**	**CT NO**	**C/B (A)**				
SUB-PANEL	EXISTING TO REMAIN	100	1	500			2			SPACE		
			3		500		4			SPACE		
EXISTING LOAD	EXISTING TO REMAIN	20	5			270	6	40	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	7	540		1560	8					
EXISTING LOAD	EXISTING TO REMAIN	20	9	1650	300		10	20	2#12,1#12G-3/4"C	CARD READER SYSTEM		
EXISTING LOAD	EXISTING TO REMAIN	20	11		300	360	12	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	13	270		540	14	20	EXISTING TO REMAIN	EXIT SIGNS		
EXISTING LOAD	EXISTING TO REMAIN	20	15	30	360		16	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	17		360	360	18	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	19	360		270	20	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	21	270	360		22	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	23		270	360	24	20	EXISTING TO REMAIN	COMPUTER ROOM AC UNIT		
EXISTING LOAD	EXISTING TO REMAIN	20	25	360		1352	26					
SUMP PUMP	EXISTING TO REMAIN	20	27	1352	300		28	20	EXISTING TO REMAIN	COMPUTER ROOM AC UNIT		
EXISTING LOAD	EXISTING TO REMAIN	20	29		1352	360	30					
EXISTING LOAD	EXISTING TO REMAIN	20	31	360		1352	32	20	EXISTING TO REMAIN	EXISTING LOAD		
FIRE ALARM	EXISTING TO REMAIN	20*	33	270	300		34	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	20	35		720	360	36	20	EXISTING TO REMAIN	EXISTING LOAD		
TIME CLK - OUTSIDE LTG	EXISTING TO REMAIN	20	37	300		360	38	20	EXISTING TO REMAIN	EXISTING LOAD		
TIME CLK - NIGHT LTG	EXISTING TO REMAIN	20	39	180	300		40	20	EXISTING TO REMAIN	REC. TEL - UTILITY ROOM		
CONNECTED LOAD PER PHASE IN VA				6442	5602	7504	**PANEL TYPE: NEMA 1** **MOUNTING: SURFACE**					
TOTAL CONNECTED LOAD IN KVA				19.548			**"*" DENOTES TO PROVIDE WITH LOCKABLE CIRCUIT BREAKER.**					
TOTAL DEMAND LOAD IN AMPS				54.26			**"**" DENOTES TO PROVIDE WITH NEW MAIN CB.**					

PANEL SCHEDULE												
PANEL NAME:	BP-2A (EXISTING)	**LOCATION:**	MECH ROOM 2015					**MOUNTING:**	SURFACE			
VOLTAGE/PHASE:	208/120V	**PANEL (AMP)**	200A					**FREQUENCY:**	60 Hz			
PANEL SHORT CIRCUIT RATING(KA):	EXISTING	**FEEDER SIZE**	EXISTING					**FEEDING SOURCE:**	DSB			
MAIN BREAKER TYPE	MCB	**MAIN BREAKER RATING (A):**	**60A***					**BRANCH C.B TYPE**	BOLT-ON			
Load Designation	**Wiring**	**Phase Load in VA**							**Wiring**	**Load Designation**		
		C/B (A)	**CT NO**	**AØ**	**BØ**	**CØ**	**CT NO**	**C/B (A)**				
EXISTING LOAD	EXISTING TO REMAIN	20	1	200			2	15	EXISTING TO REMAIN	EXISTING LOAD		
				200								
REC - GEN. OFFICE	EXISTING TO REMAIN	15	3		200		4	15	EXISTING TO REMAIN	REC - GENERAL USE		
					200							
REC - GEN. OFFICE	EXISTING TO REMAIN	20	5			200	6	15	EXISTING TO REMAIN	EXISTING LOAD		
						200						
LTG - TIME CLOCK	EXISTING TO REMAIN	15	7	200			8	15	EXISTING TO REMAIN	EXISTING LOAD		
				200								
COMPUTER TERMINAL	EXISTING TO REMAIN	15	9		200		10	20	EXISTING TO REMAIN	EXISTING LOAD		
					720							
EXISTING LOAD	EXISTING TO REMAIN	20	11			300	12	20	EXISTING TO REMAIN	EXISTING LOAD		
						1000						
GENERAL USE	EXISTING TO REMAIN	15	13	200			14					
				1000								
EXISTING LOAD	EXISTING TO REMAIN	20	15				16	30	EXISTING TO REMAIN	EXISTING LOAD		
					200							
IBM	EXISTING TO REMAIN	20	17			200	18	20	EXISTING TO REMAIN	EXISTING LOAD		
						200						
IBM	EXISTING TO REMAIN	15	19	200			20	15	EXISTING TO REMAIN	EXISTING LOAD		
				200								
CONNECTED LOAD PER PHASE IN VA				2400	1520	2100	**PANEL TYPE: NEMA 1** **MOUNTING: SURFACE**					
TOTAL CONNECTED LOAD IN KVA				6.02			**COPPER BUS, EQUIP. GROUND BAR**					
TOTAL DEMAND LOAD IN AMPS				15.04			**"*" DENOTES REPLACE MAIN CB WITH NEW 60CB.**					

PANEL SCHEDULE												
PANEL NAME:	BP-2 (EXISTING)	**LOCATION:**	ELECTRICAL DISTRIBUTION ROOM 2017					**MOUNTING:**	SURFACE			
VOLTAGE/PHASE:	208/120V	**PANEL (AMP)**	200A					**FREQUENCY:**	60 Hz			
PANEL SHORT CIRCUIT RATING(KA):	EXISTING	**FEEDER SIZE**	**4#2,1#6 GND IN 1-1/2"C.**					**FEEDING SOURCE:**	DSB			
MAIN BREAKER TYPE	MCB	**MAIN BREAKER RATING (A):**	**100A****					**BRANCH C.B TYPE**	BOLT-ON			
Load Designation	**Wiring**	**Phase Load in VA**							**Wiring**	**Load Designation**		
		C/B (A)	**CT NO**	**AØ**	**BØ**	**CØ**	**CT NO**	**C/B (A)**				
SPARE		100	1	180			2	15*	2#12, 1#12G-3/4"C.	AC-1-01 THRU AC-1-07		
			3		180		4					
SPARE		50	5			676	6	20	EXISTING TO REMAIN	EXISTING LOAD		
			7	676			8					
SPARE		40	9		1352		10	20	EXISTING TO REMAIN	EXISTING LOAD		
			11			1352	12	20	EXISTING TO REMAIN	EXISTING LOAD		
UPS 1 & 2		30	13	676		676	14					
			15		676		16	20	EXISTING TO REMAIN	EXISTING LOAD		
EXISTING LOAD	EXISTING TO REMAIN	15	17			540	18					
EXISTING LOAD	EXISTING TO REMAIN	20	19	676		676	20	40	EXISTING TO REMAIN	EXISTING LOAD		
			21	1352	676		22					
EXISTING LOAD	EXISTING TO REMAIN	50	23		1352	1690	24	30	EXISTING TO REMAIN	EXISTING LOAD		
			25	1690		1014	26					
SPACE			27	1014			28	40*	2#8, 1#10 IN 3/4"C.	HWH-1		
SPACE			29		3000		30					
CUH-1	2#10,1#10G-3/4"C	35*	31	2500		3000	32	20*	2#12, 1#12G-3/4"C.	ASCO		
			33	200	2500		34	15*	2#12, 1#12G-3/4"C.	AC-1-08 THRU AC-1-14		
SPARE		80	35		206		36					
			37			206	38			SPACE		
			39				40			SPACE		
CONNECTED LOAD PER PHASE IN VA				8964	9942	9830	**PANEL TYPE: NEMA 1** **MOUNTING: SURFACE**					
TOTAL CONNECTED LOAD IN KVA				28.736			**" * " DENOTES TO PROVIDE NEW CB.**					
TOTAL DEMAND LOAD IN AMPS				59.82			**" ** " DENOTES TO PROVIDE WITH NEW MAIN CB.**					

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS; REFER TO DWG. E001.
2. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
3. GFCI CIRCUIT BREAKER(S) TO BE RATED 30mA.

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

Drawn by JL
Checked by SH
Project No. 400346
Scale
Date 02/18/2025

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Drawing Title
ELECTRICAL PANEL SCHEDULES SHEET NO.1

Drawing No.
E401

PANEL SCHEDULE										
PANEL NAME:	PP-1 (EXISTING)	LOCATION:		STAFF 2007			MOUNTING:	RECESSED		
VOLTAGE/PHASE:	208/120V	PANEL (AMP)		200A			FREQUENCY:	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	EXISTING	FEEDER SIZE		EXISTING			FEEDING SOURCE:	DSB		
MAIN BREAKER TYPE	MCB	MAIN BREAKER RATING (A):		200A			BRANCH C.B TYPE	BOLT-ON		
Load Designation	Wiring	Phase Load in VA					Wiring	Load Designation		
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)		
LTG – OPEN OFFICE 2003	2#12, 1#12G–3/4"C.	20	1	322.3			2	20	2#12, 1#12G–3/4"C.	REC– OPEN OFFICE 2003
LTG – OFFICE 2001	2#12, 1#12G–3/4"C.	20	3	455	175.8		4	20	2#12, 1#12G–3/4"C.	REC– OPEN OFFICE 2003
LTG – STORAGE	2#12, 1#12G–3/4"C.	20	5		455	58.6	6	20	2#12, 1#12G–3/4"C.	REC– OPEN OFFICE 2003
LTG – TOILET 2013/2014	2#12, 1#12G–3/4"C.	20	7	29.3		455	8	20	2#12, 1#12G–3/4"C.	REC– OPEN OFFICE 2003
LTG – BREAK ROOM/CORR	2#12, 1#12G–3/4"C.	20	9		309.1		10	20		SPARE
LTG – TOILET 2005, 2009	2#12, 1#12G–3/4"C.	20	11			500	12	20		SPARE
SPARE		20	13				14	20		SPARE
BC–1	2#12, 1#12G–3/4"C.	15	15		137		16	20		SPARE
			17			137	18	20	EXISTING TO REMAIN	REC – OPEN OFFICE 2003
			19	137		445	20	20	EXISTING TO REMAIN	REC – CORRIDOR
REC – OPEN OFFICE 2003	EXISTING TO REMAIN	20	21	360	445		22	20	EXISTING TO REMAIN	REC – CORRIDOR
REC – OPEN OFFICE 2003	EXISTING TO REMAIN	20	23		360	445	24	20	EXISTING TO REMAIN	REC – CORRIDOR
REC – BATHROOM	EXISTING TO REMAIN	20	25	180		360	26	20	EXISTING TO REMAIN	REC – LIEBERT 2001
REC – BATHROOM	EXISTING TO REMAIN	20	27	445	180		28	20		SPARE
REC – BATHROOM	EXISTING TO REMAIN	20	29			180	30	20	2#12, 1#12G–3/4"C.	REC – VENDING MACHINE
LTG – TOILET 2005	2#12, 1#12G–3/4"C.	20	31	77		1000	32	20	2#12, 1#12G–3/4"C.	REC – VENDING MACHINE
BOILER CIRC PUMPS	EXISTING TO REMAIN	20	33	1000	200		34	20	2#12, 1#12G–3/4"C.	REC – MICROWAVE
BOILER CIRC PUMPS	EXISTING TO REMAIN	20	35		1200	200	36	20	2#12, 1#12G–3/4"C.	REC – REFRIGERATOR
BOILER CIRC PUMPS	EXISTING TO REMAIN	20	37	200		500	38	20	2#12, 1#12G–3/4"C.	REC – KITCHEN 129 GFI
SPARE		20	39	1680	300		40	20	2#12, 1#12G–3/4"C.	REC – KITCHEN 129 GFI
SPARE		20	41			300	42	20	2#12, 1#12G–3/4"C.	REC – KITCHEN 129 GFI
CONNECTED LOAD PER PHASE IN VA				5341	3762	4281	PANEL TYPE: NEMA 1 MOUNTING: RECESSED			
TOTAL CONNECTED LOAD IN KVA				13.3831			COPPER BUS, EQUIP. GROUND BAR			
TOTAL DEMAND LOAD IN AMPS				33.43						

PANEL SCHEDULE										
PANEL NAME:	PP-2	LOCATION:		CORRIDOR 1017			MOUNTING:	RECESSED		
VOLTAGE/PHASE:	208/120V	PANEL (AMP)		100A			FREQUENCY:	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	EXISTING	FEEDER SIZE		4#2,1#6 GND IN 1-1/2"C.			FEEDING SOURCE:	DSB		
MAIN BREAKER TYPE	MCB	MAIN BREAKER RATING (A):		100A			BRANCH C.B TYPE	BOLT-ON		
Load Designation	Wiring	Phase Load in VA					Wiring	Load Designation		
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)		
LTG – EXEC. OFFICE	2#12, 1#12G–3/4"C.	20	1	236.8			2	20	2#12, 1#12G–3/4"C.	LTG – BATH 206A, 206B
LTG – EXEC/MGR OFFICE	2#12, 1#12G–3/4"C.	20	3	59.2	236.8		4	20	2#12, 1#12G–3/4"C.	LTG – OPEN OFFICE 201
LTG – OFFICE 208,209,210	2#12, 1#12G–3/4"C.	20	5		236.8	355.2	6	20	2#12, 1#12G–3/4"C.	LTG – OPEN OFFICE 201
SPARE		20	7			177.6	8	20	EXISTING TO REMAIN	REC – RECEPTION 200
LTG – CORRIDOR/TOILETS	2#12, 1#12G–3/4"C.	20	9	360	237.6		10	20	2#12, 1#12G–3/4"C.	LTG – CONF. 214
REC – OPEN OFFICE 201	EXISTING TO REMAIN	20	11		355.2	360	12	20	2#12, 1#12G–3/4"C.	LTG – RECEPTION
REC – OFFICE 202	2#12, 1#12G–3/4"C.	20	13	180		215.8	14	20	EXISTING TO REMAIN	REC – JOHNSON OFFICE 207
REC – OFFICE 203	2#12, 1#12G–3/4"C.	20	15	360	180		16	20	EXISTING TO REMAIN	REC – CARPEZZI OFFICE 205
REC – OFFICE 201	2#12, 1#12G–3/4"C.	20	17		360	360	18	20	EXISTING TO REMAIN	REC – LIEBERT OFFICE 204
SPARE		20	19	360			20	20	2#12, 1#12G–3/4"C.	REC – OFFICE 202
SPARE		20	21		360		22	20	EXISTING TO REMAIN	REC – CORRIDOR
REC – RMS 208,209,210	EXISTING TO REMAIN	20	23			540	24	20	EXISTING TO REMAIN	REC – KITCHEN 215
REC – CONF RM 214	2#12, 1#12G–3/4"C.	20	25	360		300	26	20	EXISTING TO REMAIN	REC – KITCHEN 215
REC – CONF RM 214	2#12, 1#12G–3/4"C.	20	27	1680	360		28	20	EXISTING TO REMAIN	REC – MICROWAVE
LTG – OFFICE 202,203,204	2#12, 1#12G–3/4"C.	20	29		1200	355.2	30	20	EXISTING TO REMAIN	REC – REFRIGERATOR
AC UNIT OFFICE	EXISTING TO REMAIN	20	31	180		1000	32	20	EXISTING TO REMAIN	REC – BATHROOM
			33				34	20	EXISTING TO REMAIN	REC – BATHROOM
V V T 2ND FLOOR	EXISTING TO REMAIN	20	35		180		36	20	EXISTING TO REMAIN	REC – BATHROOM
HVAC CONTROL PANEL	2#12, 1#12G–3/4"C.	20	37	300		180	38	20	EXISTING TO REMAIN	REC – BATHROOM
AWNING EXTERIOR SIGNAGE	2#12, 1#12G–3/4"C.	20	39	180	300		40	20	2#12, 1#12G–3/4"C.	REC – ROOF
SPARE		20	41		360		42	20		SPARE
CONNECTED LOAD PER PHASE IN VA				4256	4366	4204	PANEL TYPE: NEMA 1 MOUNTING: RECESSED			
TOTAL CONNECTED LOAD IN KVA				12.8262			COPPER BUS, EQUIP. GROUND BAR			
TOTAL DEMAND LOAD IN AMPS				32.04						

PANEL SCHEDULE										
PANEL NAME:	PP-1A (THEATER-EXHIBIT PNL)	LOCATION:		THEATER			MOUNTING:	RECESSED		
VOLTAGE/PHASE:	208/120V	PANEL (AMP)		100A			FREQUENCY:	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	22 KAIC	FEEDER SIZE		4#2, 1#6G IN 1-1/2"C			FEEDING SOURCE:	DSB		
MAIN BREAKER TYPE	MCB	MAIN BREAKER RATING (A):		100A			BRANCH C.B TYPE	BOLT-ON		
Load Designation	Wiring	Phase Load in VA					Wiring	Load Designation		
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)		
RACK	2#12, 1#12G–3/4"C.	20	1	550			2	20	2#12, 1#12G–3/4"C.	LTG – THEATER
RACK	2#12, 1#12G–3/4"C.	20	3	55.5	550		4	20	2#12, 1#12G–3/4"C.	LTG – THEATER
RACK	2#12, 1#12G–3/4"C.	20	5		111	360	6	20	2#12, 1#12G–3/4"C.	LTG – THEATER
REC – THEATER	2#12, 1#12G–3/4"C.	20	7	360		111	8	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
REC – THEATER	2#12, 1#12G–3/4"C.	20	9	37	300		10	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
REC – THEATER	2#12, 1#12G–3/4"C.	20	11		148	300	12	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
REC – THEATER SEATS	2#12, 1#12G–3/4"C.	20	13	300		74	14	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
REC – THEATER	2#12, 1#12G–3/4"C.	20	15	74	360		16	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
PROJECTOR	2#12, 1#12G–3/4"C.	20	17		92.5	384	18	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
PROJECTOR	2#12, 1#12G–3/4"C.	20	19	384		92.5	20	20	2#12, 1#12G–3/4"C.	LTG – EXHIBIT
REC – EXHIBIT 2008	2#12, 1#12G–3/4"C.	20	21	74	300		22	20	2#12, 1#12G–3/4"C.	LTG – ENTRANCE 2000
REC – EXHIBIT 2008	2#12, 1#12G–3/4"C.	20	23		74	300	24	20	2#12, 1#12G–3/4"C.	LTG – ENTRANCE 2000
REC – EXHIBIT 2008	2#12, 1#12G–3/4"C.	20	25	300		92.5	26	20	2#12, 1#12G–3/4"C.	LTG – ENTRANCE 2000
		20	27	55.5			28	20		SPARE
REC – EXHIBIT 2008	2#12, 1#12G–3/4"C.	20	29			360	30	20	2#12, 1#12G–3/4"C.	REC CONV. – EXH. 2008
REC – EXHIBIT 2008	2#12, 1#12G–3/4"C.	20	31	360		1080	32	20	2#12, 1#12G–3/4"C.	PROJECTOR
REC – PRINTER	2#12, 1#12G–3/4"C.	20	33	384	1000		34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
CONNECTED LOAD PER PHASE IN VA				2934	2936	3154	PANEL TYPE: NEMA 1 MOUNTING: RECESSED			
TOTAL CONNECTED LOAD IN KVA				9.0235			COPPER BUS, EQUIP. GROUND BAR			
TOTAL DEMAND LOAD IN AMPS				22.54						

PANEL SCHEDULE										
PANEL NAME:	COMPUTER PANEL	LOCATION:		STORAGE 1014			MOUNTING:	RECESSED		
VOLTAGE/PHASE:	208/120V	PANEL (AMP)		200A			FREQUENCY:	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	EXISTING	FEEDER SIZE		4#4/0,1#4 GND IN 2-1/2"C.			FEEDING SOURCE:	DSB		
MAIN BREAKER TYPE	MCB	MAIN BREAKER RATING (A):		200A			BRANCH C.B TYPE	BOLT-ON		
Load Designation	Wiring	Phase Load in VA					Wiring	Load Designation		
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)		
AC–2–01 THRU AC–2–08	2#12, 1#12G–3/4"C.	15*	1	204			2	20		SPARE
			3		204		4	20		SPARE
AC–2–09 THRU AC–2–16	2#12, 1#12G–3/4"C.	15*	5			286	6	20	2#12, 1#12G–3/4"C	REC– CONF. RM 214
			7	286		180	8	20	2#12, 1#12G–3/4"C	REC – OFFICE 202
BC–2	2#12, 1#12G–3/4"C.	15*	9	180			10	20	2#12, 1#12G–3/4"C	REC – OFFICE 202
			11		180		12	20	EXISTING TO REMAIN	IG REC – OPEN OFFICE 201
			13	455		455	14	20	EXISTING TO REMAIN	IG REC – STAFF 2007
IG REC – OPEN OFFICE 201	2#12, 1#12G–3/4"C	20	15		455		16	20	EXISTING TO REMAIN	IG REC – LIEBERT 2001
IG REC – OPEN OFFICE 201	2#12, 1#12G–3/4"C	20	17		455	455	18	20	EXISTING TO REMAIN	IG REC – CNTLR/MGR 208,209,210
IG REC – OPEN OFFICE 201	2#12, 1#12G–3/4"C	20	19	455		455	20	20	EXISTING TO REMAIN	IG REC – CNTLR/MGR 208,209,210
IG REC – OPEN OFFICE 201	2#12, 1#12G–3/4"C	20	21	455	455		22	20	EXISTING TO REMAIN	IG REC – RECEPTION 200
SPARE		20	23			455	24	20	EXISTING TO REMAIN	IG REC – JOHNSON 207
SPARE		20	25		455		26	20	EXISTING TO REMAIN	REC – CARPEZZI 205
SPARE		20	27	455			28	20	EXISTING TO REMAIN	IG REC – LIEBERT 204
SPARE		20	29		200		30	20		SPARE
SPARE		20	31				32	20	EXISTING TO REMAIN	IG REC – COMP. RM 2012
SPARE		20	33	180			34	20	EXISTING TO REMAIN	IG REC – COMP. RM 2012
SPARE		20	35		180		36	20	EXISTING TO REMAIN	IG REC – COMP. RM 2012
IG REC – OFFICE 202	2#12, 1#12G–3/4"C	20	37	455		180	38	20	EXISTING TO REMAIN	IG REC – STORAGE
SPARE		20	39	275			40	20	EXISTING TO REMAIN	IG REC – STORAGE
SPARE		20	41		275		42	20	EXISTING TO REMAIN	IG REC – STORAGE
CONNECTED LOAD PER PHASE IN VA				3400	2859	2466	PANEL TYPE: NEMA 1 MOUNTING: RECESSED			
TOTAL CONNECTED LOAD IN KVA				8.725			COPPER BUS, EQUIP. GROUND BAR,			
TOTAL DEMAND LOAD IN AMPS				21.80			NOTE: PANEL CONNECTED TO EXISTING SURGE PROTECTOR DEVICE			

PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOLS; REFER TO DWG. E001.
2. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
3. GFCI CIRCUIT BREAKER(S) TO BE RATED 30mA.

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

Drawn by JL
Checked by SH
Project No. 400346
Scale NONE
Date 02/18/2025

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RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE

TOWN OF CLARKSTOWN
COUNTY OF ROCKLAND
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Drawing Title
ELECTRICAL PANEL SCHEDULES SHEET NO.2

Drawing No.
E402

GENERAL NOTES:

1. ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET CURRENT NANUET, NY BUILDING CODE REQUIREMENTS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NYS BUILDING CODE, 2020 NYS UNIFORM CODE, CHAPTER 70, NFPA 72, NFPA 720, NFPA 70, AND 2020 NEC.
3. COMPLETE FIRE ALARM INSTALLATION SHALL COMPLY WITH THE LATEST REQUIREMENTS OF ADA AND UL.
4. ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% CAPACITY.
5. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND, AS FOLLOWS: PAINT ALL NEW CONDUIT AND BOXES TO MATCH EXISTING CONDITIONS, PATCH AND PAINT LOCATIONS OF REMOVED BOXES TO MATCH EXISTING.
6. MINIMUM CONDUIT SIZE 3/4". TYPE OF RACEWAY SHALL BE EMT. SIZE AND TYPE OF WIRE SHALL BE AS PER MANUFACTURER'S REQUIREMENTS AND AS APPROVED BY AUTHORITIES HAVING JURISDICTION, U.O.N.
7. ALL DEVICE WIRING SHALL BE SUPERVISED SO THAT THE FACP WILL BE NOTIFIED IN THE EVENT OF ANY RUPTURE/BREAK IN THE WIRE.
8. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
9. DEVICES AND EQUIPMENT ARE SHOWN DIAGRAMMATIC, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATION OF EQUIPMENT SHALL BE AS APPROVED BY THE ARCHITECT OR THEIR REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.
10. CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK.
11. VERIFY LOCATIONS AND QUANTITY OF ALL EQUIPMENT WITH DRAWINGS OR INTERIOR DETAILS. IN LOCATING BOXES OR DEVICES, ALLOW FOR OVERHEAD PIPES, DUCTS, MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILING, ETC., AND CORRECT ANY INACCURACY WITHOUT ADDITIONAL EXPENSE TO OWNER.
12. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR ALL POWER CONNECTIONS. DIVISION 28 CONTRACTOR IS RESPONSIBLE FOR LOW-VOLTAGE AND FIRE ALARM MODULE CONNECTIONS.
13. THESE DRAWINGS WERE PREPARED FROM AVAILABLE INFORMATION PROVIDED BY THE OWNER AND FIELD SURVEY INFORMATION COMPILED BY THE ENGINEER FOR THE PURPOSE OF ENGINEERING DESIGN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LOCATIONS, SIZES AND CONDITIONS AT THE SITE, INCLUDING EXAMINING ANY SUBSTRATES, AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION OR FABRICATION OF THE WORK.
14. CONTRACTOR SHALL MAINTAIN ORDERLY HOUSEKEEPING DURING CONSTRUCTION, AND UPON SUBSTANTIAL COMPLETION, PERFORM FINAL CLEANUP. CONTRACTOR SHALL REMOVE ALL CONSTRUCTION RUBBISH, SCAFFOLDING, EQUIPMENT, TEMPORARY PROTECTION, TEMPORARY FIELD STRUCTURES, AND OTHER MATERIALS OR EQUIPMENT THAT WAS REQUIRED IN CONNECTION WITH THE WORK, BUT NOT A PERMANENT PART THEREOF.
15. CONTRACTOR SHALL PROVIDE A DRAWING AT THE MAIN FACP SHOWING THE LOCATIONS OF ALL FIRE ALARM DEVICES.
16. ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4/Y/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED. ALL AUDIBLE AND VISUAL CIRCUITS SHALL BE STYLE Y/CLASS B UNLESS THE CONTRACT DRAWINGS INDICATE NYC SPLIT A/B. A/B CIRCUITS SHALL BE WIRED SO THAT EVERY OTHER DEVICE IS WIRED ON AN ALTERNATE CIRCUIT.
17. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM CONTROL EQUIPMENT CABINET.
18. PATCH AND PAINT LOCATIONS OF REMOVED BOXES TO MATCH EXISTING, RESTORE SURFACES TO ORIGINAL CONDITIONS. REFER TO ARCHITECTURAL DETAILS.
19. ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH A NY APPROVED LAMINATE ENGRAVED LABEL.
20. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS, APPROVED WIRE NUTS (APPROVED TEMPERATURE), OR SCOTCH LOCKS.
21. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 8 FEET ABOVE THE FINISHED FLOOR. MECHANICAL AND ELECTRICAL ROOMS, AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL OTHER AREAS, NYC APPROVED WIRE MAY BE RUN WITHOUT CONDUIT ABOVE 8 FT. PROVIDED IT MEETS NYS CODES AND CONNECTS TO BUILDING CONSTRUCTION USING NYS APPROVED MEANS.
22. FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
23. ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE FLUOROPOLYMER 'TEFLON' TYPE CABLING AND SHALL MEET THE REQUIREMENTS UL 1424 AND UL 910 AS FOLLOWS:
24. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
25. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
26. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
27. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR NON POWER LIMITED CENTRALIZED AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY.
28. ALL REMOTE FIRE ALARM CONTROL CABINETS (DATA GATHERING PANELS (DGP), TTB(S), FARAS, ETC.) SHALL INCLUDE AN INTERNAL TAMPER EACH SHALL ALSO INCLUDE A SMOKE DETECTOR MOUNTED ON THE CEILING DIRECTLY ABOVE IT SHOULD ONE OR MORE NOT ALREADY BE SHOWN ON THE PLANS IN THE ROOM THAT IT IS MOUNTED IN.
29. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION FROM SLAB ABOVE.
30. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
31. ALL AREA SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
32. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
33. COMBINATION SMOKE AND CO DETECTORS SHALL BE FULLY ADDRESSABLE AND INCLUDE A SOUNDER BASE, EACH WITH AN INTERNAL SYNCHRONIZED TEMPORAL 3 AND 4 SOUNDERS, AND THE NECESSARY MONITORING DEVICES. IF POWERED SEPARATELY (24VDC), POWER TO THE DEVICE SHALL ALSO BE SUPERVISED.
34. MANUAL PULL STATION(S) SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO MEET ADA HEIGHT REQUIREMENTS. DEVICE SHALL BE PAINTED FIRE DEPARTMENT RED. ALL MANUAL STATIONS SHALL BE INSTALLED SO THAT THEY ARE KEPT UN-OBSTRUCTED FROM OTHER BUILDING CONSTRUCTION.
35. ALL STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 15 UNLESS OTHERWISE NOTED. STROBES SHALL BE SHALL HAVE MINIMUM 5'-0" CLEARANCE FROM ANY OF OBSTRUCTIONS. A 15/75 STROBE MAY BE UTILIZED WHERE 15 CANDELA STROBES MEET NFPA REQUIREMENTS (CORRIDORS AND 20 X 20 SPACES). STROBES SHALL BE SYNCHRONIZED AT LINE OF SITE.
36. NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. AND NOT GREATER THAN 96 IN. ABOVE THE FINISHED FLOOR, U.O.N. WHERE LOCAL CONDITIONS DIFFER INSTALL THE STROBES AND/OR HORNS AT 6" BELOW THE CEILING.
37. ALL AUXILIARY RELAYS F SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
38. EACH FIRE ALARM INITIATING AND INDICATING CIRCUIT SHALL BE ELECTRICALLY SUPERVISED.
39. A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED. THE DIALER SHALL BE CAPABLE OF SENDING THE FOLLOWING EVENTS: ALARM, MANUAL STATION, SUPERVISORY, TROUBLE, AND CARBON MONOXIDE. OWNER TO OBTAIN PHONE LINE AND CENTRAL STATION PROVIDER. OWNER TO COORDINATE WITH CONTRACTOR.
40. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CALCULATIONS, AND MANUFACTURERS' DATA SHEETS ON ALL EQUIPMENT AND MATERIALS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS FOR APPROVAL BY OWNER AND ENGINEER. THE SHOP DRAWINGS, CALCULATIONS AND DATA SHEETS SHALL CONTAIN ALL NECESSARY DATA (I.E., MANUFACTURER, CATALOG NUMBER, SIZE, DIMENSIONS, CAPACITY, VOLTAGE DROPS, WIRING DETAILS AND ALL OTHER ENGINEERING DATA AND DETAILS NECESSARY) FOR COMPLETE CLARITY AND INSTALLATION.
41. LOCATIONS OF ALL FIRE ALARM EQUIPMENT SHALL BE SUBJECT TO FIRE DEPARTMENT INSPECTOR APPROVAL AND THE REQUIREMENTS OF 2020 NYS UNIFORM CODE. NO CHANGE OR MODIFICATION TO THE SYSTEM OR PLANS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF IF ANY CHANGES ARE MADE TO THE DRAWINGS PRIOR TO OR DURING INSTALLATION, AS BUILT PLANS SHALL BE PREPARED BY THE ENGINEER AND FILED WITH THE APPROPRIATE NANUET NY AGENCIES FOR FINAL ACCEPTANCE.
42. THE CONTRACTOR SHALL PROVIDE THE NECESSARY DOCUMENTS REQUIRED FOR INSPECTION AND TO OBTAIN A FINAL LETTER OF APPROVAL. THIS SHALL INCLUDE 11X17 AS-BUILT DRAWING(S), AN NFPA PROGRAMMING MATRIX, AND BOTH THE STATEMENT OF OPERATION AND THE CONTRACTORS FORMS SIGNED AND SEALED BY THE APPROPRIATE PARTIES. THESE DOCUMENTS SHALL BE SUBMITTED AS NECESSARY TO THE NYC FIRE DEPARTMENT TO OBTAIN A FIRE ALARM INSPECTION. IF A LETTER OF NO APPROVAL IS ISSUED, THE CONTRACTOR SHALL CORRECT ALL ITEMS AND SUBMIT REQUIRED FORMS OF CORRECTIONS TO THE FIRE DEPARTMENT TO OBTAIN A FINAL LETTER OF APPROVAL AT NO ADDITIONAL COST.
43. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH DOCUMENTATION FROM THE TOWN OF CLARKSTOWN FIRE DEPARTMENT OF BUILDINGS INDICATING THE SYSTEM HAS BEEN APPROVED.
44. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.
45. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW SYSTEM WITH ANY EXISTING SYSTEM CONNECTED DEVICES (I.E. RELAYS, ETC.).
46. THE FIRE ALARM RISER DIAGRAM IS FOR DESIGN PURPOSES ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED.
47. INDICATION OF A RELAY INTERFACE MODULE SYMBOL "R" AT A FAN SYSTEM MOTOR (FAN ETC.) REPRESENTS ALL NECESSARY TECHNICAL MEANS TO ACCOMPLISH FAN SHUT DOWN AND RESTART. PROVIDE 4#14 IN 3/4"C FROM FACP TO THE MODULE AND 2#12 IN 3/4"C TO THE RESPECTIVE STARTERS TO INCORPORATE FAN SHUTDOWN.
48. LOCATION OF "PB'S" (PULL BOXES) ARE SUGGESTED ROUTING, FINAL DETERMINATION IS TO BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
49. FIRE ALARM CONTROL PANEL FACP SHALL HAVE BACK-UP BATTERIES.
50. PROVIDE A DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) & TWO (2) DEDICATED TELEPHONE LINES UPSTREAM OF ANY TELEPHONE SYSTEM IN THE BUILDING. THE DACT MUST BE CONNECTED TO THE FACP FOR ANNUNCIATION AT A FIRE DEPARTMENT APPROVED CENTRAL MONITORING CENTRAL STATION.
51. PROVIDE THE NUMBER OF CONDUITS AS REQUIRED. CONDUITS FILL OF ALL FIRE ALARM CABLES SHALL BE AS FOLLOWS:
    3/4" CONDUIT: UP TO 6 F.A. CABLES
    1" CONDUIT: UP TO 10 F.A. CABLES
    1 1/4" CONDUIT: UP TO 17 F.A. CABLES
    1 1/2" CONDUIT: UP TO 23 F.A. CABLES
    2" CONDUIT: UP TO 38 F.A. CABLES
52. THE RISER DIAGRAM INDICATES FIRE ALARM SYSTEM DEVICES, CONNECTIONS, CONDUIT RUNS, ETC. QUANTITY AND TYPE OF DEVICES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. SUBMIT ACTUAL RISERS, POINT-TO-POINT WIRING DIAGRAM INCLUDING WIRE AND CONDUIT SIZES AND INTERCONNECTIONS AS SHOP DRAWINGS. CONTRACTOR SHALL INSTALL FIRE ALARM SYSTEM ONLY AFTER ALL SHOP DRAWINGS ARE APPROVED BY THE ENGINEER OF RECORD.
53. PLENUM RATED MULTI-CONDUCTOR CABLE WITH CODE COMPLIANT J-HOOK SUPPORTS ABOVE THE GRID CEILING AND HARD CEILING SHALL BE ACCEPTABLE FOR FIRE ALARM WIRING INSTALLATION. ALL OTHER LOCATIONS WHERE THE INSTALLATION CANNOT BE CONCEALED, THE FIRE ALARM WIRING SHALL BE RUN IN EXPOSED MINIMUM 3/4" CONDUIT FOR ELECTRICAL ROOMS, MECHANICAL ROOMS, AND IN WIREMOLD FOR ALL OTHER AREAS, U.O.N. ALL THE EXPOSED CONDUITS BELOW 96" AFF SHALL BE RIGID GALVANIZED CONDUIT. FLEXIBLE MC TYPE FIRE ALARM CABLE IS NOT ACCEPTABLE.
54. DEVICE LAYOUT IS SHOWN FOR COVERAGE ONLY, CONTRACTOR SHALL OBTAIN PRECISE POINT TO POINT WIRING DIAGRAMS FOR EXACT QUANTITIES AND DEVICE LOCATIONS FROM CERTIFIED FIRE ALARM INSTALLER PRIOR TO INSTALLATION.
55. ALL FIRE ALARM CONDUIT PENETRATIONS THROUGH EXISTING WALLS, PARTITIONS, FLOORS AND SLABS THROUGHOUT THE BUILDING SHALL BE PROVIDED WITH FIRESTOPPING MATERIAL AS PER DETAILS SHOWN ON CONTRACT DRAWINGS.
56. IONIZATION TYPE SMOKE DETECTORS ARE NOT PERMITTED.
57. ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE FLUOROPOLYMER 'TEFLON' TYPE CABLING AND SHALL MEET THE REQUIREMENTS UL 1424 AND UL 910 AS FOLLOWS:
    A. A MINIMUM TEMPERATURE RATING OF 150 DEGREES CELSIUS.
    B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS.
    C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS.
    D. THE COLOR OF THE CABLE SHALL BE RED.
    E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE).
    F. THE CABLE SHALL BE VISUALLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS, AS IS LISTED BY UL.
61. SUBMIT AS BUILT UPON COMPLETION OF INSTALLATION TO THE ENGINEER AND THE BUILDING MANAGER. DRAWINGS ARE TO BE PREPARED USING AUTOCAD RELEASE R2004 OR ABOVE.
62. THIS CONTRACTOR MUST PREPARE ALL DOCUMENTATION REQUIRED FOR RECEIVING A PERMIT AND FOR FILING. THIS DRAWING IS FOR DESCRIPTION OF SCOPE OF WORK AND IS FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT TO GREENMAN-PEDERSEN, INC. A COMPLETE SET OF DRAWINGS FOR REVIEW. SET SHALL INCLUDE A RISER DIAGRAM, FLOOR PLAN WITH POINT TO POINT WIRING, SEQUENCE OF OPERATIONS, MATRIX, CIRCUIT CALCULATIONS AND ALL APPLICABLE NOTES FOR FILING AND FOR INSTALLATION.
63. THE CONTRACTOR SHALL RETAIN A NY STATE PE TO SIGN AND SEAL ALL NECESSARY DOCUMENTS REQUIRED FOR INSPECTION AND TO OBTAIN A FINAL LETTER OF APPROVAL. IF A LETTER OF NO APPROVAL IS ISSUED, THE CONTRACTOR SHALL CORRECT ALL ITEMS AND SUBMIT A SIGNED AND SEALED CERTIFICATE OF CORRECTION TO THE NEW JERSEY FIRE DEPARTMENT TO OBTAIN A FINAL LETTER OF APPROVAL AT NO ADDITIONAL COST.
64. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
65. THE CONTRACTOR SHALL CONTRACT WITH THE OWNER'S FIRE ALARM VENDOR TO PROVIDE SERVICES RELATED TO THE BUILDING FIRE ALARM SYSTEM. THE WORK INCLUDES ALL NECESSARY FIRE ALARM SYSTEM SHUTDOWNS FOR GENERAL CONSTRUCTION ACTIVITIES, INCLUDING ANY SERVICES BY THE BUILDING FIRE ALARM VENDOR, TO SHUT DOWN THE SYSTEM AT THE BEGINNING OF WORK ACTIVITIES AND TO RE-ACTIVATE AT THE END OF WORK ACTIVITIES, WITH STANDARD BUILDING NOTIFICATIONS AND PROCEDURES INCLUDING MAINTAINING DAILY RECORD DOCUMENTATION, FIRE WATCH, ETC.
66. TESTS OF THE FIRE ALARM SYSTEM SHALL BE CONDUCTED IN THE PRESENCE OF FIRE INSPECTOR FROM HE TOWN OF CLARKSTOWN, NEW CITY, NEW YORK.
67. CONTRACTOR TO OBTAIN FIRE ALARM BUILDING VENDOR FROM OWNER. FIRE ALARM SYSTEM SHALL BE: HONEYWELL SILENT KNIGHT 6700, OR APPROVED EQUIVALENT.

DRAWING LIST

DWG NUMBER	DRAWING TITLE
FA001	FIRE ALARM GENERAL NOTES
FA002	FIRE ALARM RISER AND IO MATRIX
FA101	FIRE ALARM FIRST FLOOR - INSTALLATION
FA102	FIRE ALARM SECOND FLOOR - INSTALLATION

FIRE DETECTION & ALARM SYSTEM SYMBOL LIST

SYMBOL	DESCRIPTION
FACP / DACT	FIRE ALARM CONTROL PANEL MOUNTED CENTER LINE 4'-0" AFF. WITH INTEGRAL "DACT" DIGITAL ALARM COMMUNICATOR TRANSMITTER FOR CENTRAL STATION NOTIFICATION. SEMI-FLUSHED MOUNT ON AN EXISTING WALL.
FARA	FIRE ALARM REMOTE ANNUNCIATOR MOUNTED 4'-0" AFF. SURFACE MOUNTED ON WALL, SEMI-FLUSH ON NEW CONSTRUCTION.
75 G	WALL MOUNTED FIRE SIGNAL STROBE (NUMBERING INDICATES RATED CANDELA). STROBES SHALL BE WALL-MOUNTED SUCH THAT THE TOP OF STROBE LENS IS LOCATED AT 96" ABOVE THE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. IN NO CASES STROBE LENSE SHALL BE INSTALLED BELOW 80" A.F.F.
75 G	CEILING MOUNTED FIRE SIGNAL STROBE. (NUMBERING INDICATES RATED CANDELA)
75	CEILING MOUNTED FIRE SIGNAL HORN WITH FIRE SIGNAL STROBE (NUMBERING INDICATES RATED CANDELA).
75 WP	WALL MOUNTED FIRE SIGNAL HORN WITH FIRE SIGNAL STROBE (NUMBERING INDICATES RATED CANDELA). HORN WITH FIRE SIGNAL STROBES SHALL BE WALL-MOUNTED SUCH THAT THE TOP OF STROBE LENS IS LOCATED AT 96" ABOVE THE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. SUBSCRIPT 'G' DENOTES WITH GUARD. "WP" INDICATES WEATHERPROOF. IN NO CASES STROBE LENSE SHALL BE INSTALLED BELOW 80" A.F.F.
S TOS	CEILING MOUNTED SMOKE DETECTOR. SUPERSCRIPT "TOS" DENOTES TOP OF STAIR SUPERSCRIPT "CO" DENOTES PROVIDE AS COMBINATION CARBON MONOXIDE SMOKE DETECTOR. PROVIDE WITH CO SOUNDER BASE.
F	FIRE ALARM PULL STATION WITH DOUBLE ACTION TYPE MOUNTED MIN 3'-6" AND MAX 4'-0" FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE.
CZ	CONTROL MODULE (DIGITAL CONTACT)
MZ	MONITORING MODULE (DIGITAL CONTACT)
R	24V RELAY OUTPUT
DH	DOOR HOLDER
ATS	AUTOMATIC TRANSFER SWITCH

SCOPE OF WORK:

THE WORK REQUIRES PROVIDING A NEW FULLY FUNCTIONAL FIRE ALARM SYSTEM AS DETAILED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE WORK GENERALLY REQUIRES THE FOLLOWING:

1. REMOVE EXISTING FIRE ALARM SYSTEM AND ITS COMPONENTS AFTER NEW APPROVED FIRE ALARM SYSTEM IS INSTALLED.
2. INSTALL NEW MANUAL AND AUTOMATIC FIRE ALARM SYSTEM.
3. RE-PROGRAM THE EXISTING COMBINATION OF FIRE ALARM AND SECURITY ALARM SYSTEM TO OPERATE AS TWO SEPARATE SYSTEMS.
4. COORDINATE WITH THE FIRE ALARM VENDOR FOR ANY ADDITIONAL ANCILLARY COMPONENTS REQUIRED FOR A FUNCTIONAL CODE COMPLIANT SYSTEM INSTALLATION.
5. PROVIDE NEW WIRING AND CONDUITS FOR CONNECTION TO NEW DEVICES AND EQUIPMENT AS REQUIRED FOR A COMPLETE SYSTEM INSTALLATION.
6. INSTALL NEW AUDIBLE/VISUAL DEVICES, AREA SMOKE DETECTORS, CO DETECTORS, ETC, AS INDICATED ON PLANS.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH SECTION CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE 2020 NEW YORK STATE INTERNATIONAL CODE ARE LISTED IN THE FOLLOWING TABLES:

THE CONTRACTOR MUST NOTIFY THE ENGINEER FOR CONTROLLED INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.

THE "AUTHORITY" SHALL BE RESPONSIBLE FOR THE FOLLOWING CONTROLLED INSPECTIONS:

FIRE-RESISTANT PENETRATIONS AND JOINTS

FIRE ALARM SYSTEM WIRING REQUIREMENT	
FUNCTION	TYPE
ADDR. LOOP WIRING/DATA	1 TWISTED PAIR #14 AWG., U.O.N.
COMBINATION HORN/STROBE	2 PAIR #14 AWG, U.O.N.
HORN	1 PAIR #12 AWG, U.O.N.
STROBE	1 PAIR #12 AWG, U.O.N.
CONTROL	2 #14 AWG, U.O.N.
POWER	2#10 AWG POWER UON; SEE NOTE 2A.
CARBON MONOXIDE	3 PAIR #14 AWG (POWER, MONITOR ALARM)

NOTE 1A: VERIFY/COORDINATE WIRE SIZE REQUIREMENTS FOR DEVICES WITH SYSTEM MANUFACTURER; FINAL AWG SIZES TO FA NOTIFICATION AND INDICATING DEVICES ARE PER SYSTEM MANUFACTURER REQUIREMENTS.

NOTE 2A: UPON SELECTION OF FA SYSTEM MANUFACTURER; WHERE FA DEVICES ARE NOT INDICATED ON THE PLANS THAT REQUIRE 120V, 20A POWER CONNECTION: FOR RUNS 100-124FT, PROVIDE 2#6 AWG, RUNS 125-175FT, PROVIDE 2#4 AWG, AND RUNS 175-300FT, PROVIDE 2#2 AWG, U.O.N.

LIST OF DRAWINGS

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

Drawn by JL
Checked by SH
Project No. 400346
Scale NONE
Date 02/18/2025

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RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE

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COUNTY OF ROCKLAND

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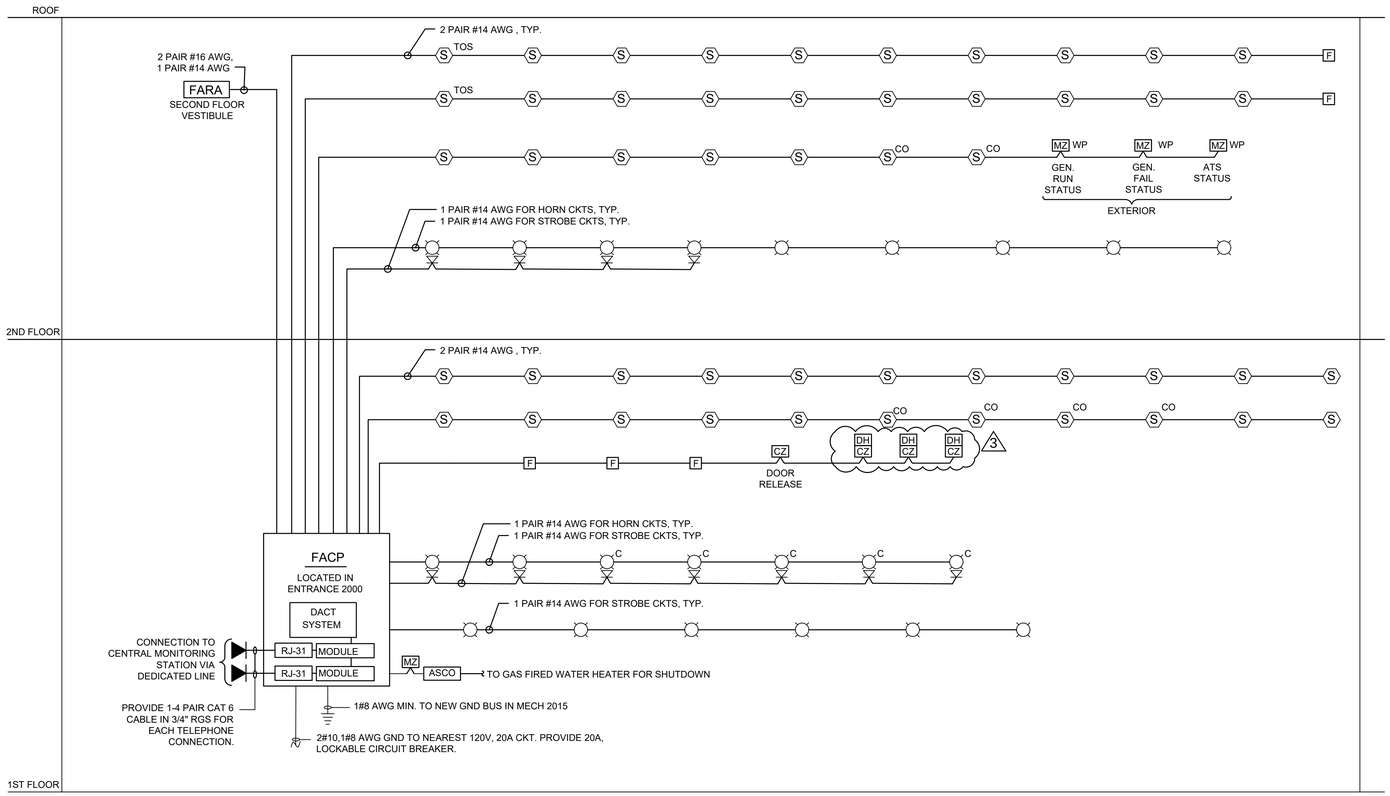
Drawing Title
FIRE ALARM GENERAL NOTES

Drawing No.
FA001



1 FA002 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

FIRE ALARM RISER DIAGRAM NOTES:

1. ALL CONDUITS AND CONTROL PANELS SHALL BE GROUNDED.
2. EACH FIRE ALARM INITIATING AND INDICATING CIRCUIT SHALL BE ELECTRICALLY SUPERVISED.
3. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN MIN. 3/4" METALLIC CONDUIT, UNLESS OTHERWISE SPECIFIED.

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AF	FUSE RATING IN AMPS
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CKT(S)	CIRCUIT(S)
DWG	DRAWING
E	EXISTING TO REMAIN
ER	EXISTING TO BE REMOVED
ERR	EXISTING TO BE RELOCATED
EC	EMPTY CONDUIT
EOR	ENGINEER OF RECORD
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
G	GUARD
GEN	GENERATOR
GND	GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MTD	MOUNTED
N	NEUTRAL
N.C.	NORMALLY CLOSED
NJ	NEW JERSEY
N.O.	NORMALLY OPEN
P	POLE(S)
PB	PULL BOX
PNL	PANEL
PWR	POWER
RGC	RIGID GALVANIZED CONDUIT
SP	SPARE
SW	SWITCH
TTB	TERMINAL BOX
UON	UNLESS OTHERWISE INDICATED
V	VOLT
W	WATT
WP	WEATHER PROOF

SYSTEM OUTPUTS

SYSTEM INPUTS		Control Unit Annunciation						Notification									Required Fire Safety Control			
		A ACTUATE COMMON ALARM SIGNAL	B ACTUATE AUDIBLE ALARM SIGNAL	C ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D ACTUATE AUDIBLE SUPERVISORY SIGNAL	E ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	G ACTIVATE VISUAL/AUDIO DEVICES -	H DISPLAY/PRINT CHANGE OF STATUS	I TRANSMIT AUTOMATIC ALARM SIGNAL TO SUPERVISING STATION	J TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	K TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	L TRANSMIT CO ALARM SIGNAL TO SUPERVISING STATION	M TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	N ACTIVATE A TEMPORAL 4 SIGNAL ON ACTIVATED CO SOUNDER BASES	O SHUT DOWN CO PRODUCING EQUIPMENT	P RELEASE MAGNETICALLY HELD DOORS	Q UNLOCK NECESSARY EXITS	R NOT USED	
1	MANUAL FIRE ALARM BOXES	X	X					X	X		X						X			1
2	AREA SMOKE DETECTORS	X	X					X	X	X							X	X		2
3	HEAT DETECTORS	X	X					X	X	X							X	X		3
4	CARBON MONOXIDE DETECTORS AT SOURCE			X	X								X		X	X				4
5	CARBON MONOXIDE DETECTORS REMOTE FROM SOURCE			X	X								X		X					5
6	FIRE ALARM AC FAILURE					X	X		X					X						6
7	FIRE ALARM SYSTEM LOW BATTERY					X	X		X					X						7
8	OPEN CIRCUIT					X	X		X					X						8
9	GROUND FAULT					X	X		X					X						9
10	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X		X					X						10
11	DRILL SWITCH							X												11
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	

2 FA002 FIRE ALARM I/O MATRIX
NOT TO SCALE

No.	Revisions	Date
3	ADDENDUM NO. 3	04-10-25
0	RFP SET	02-18-25

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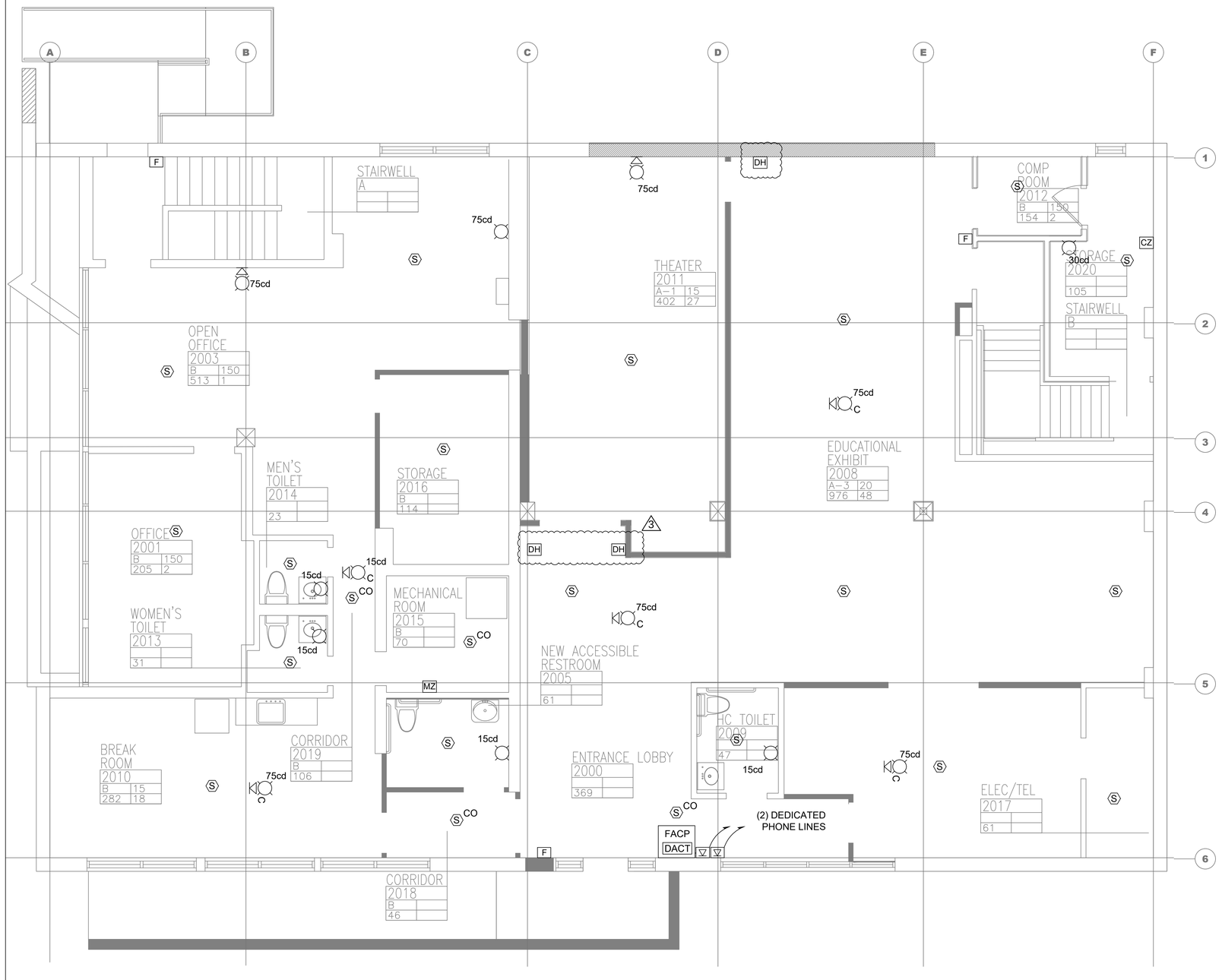
Drawing Title
FIRE ALARM RISER AND IO MATRIX

Drawing No.
FA002



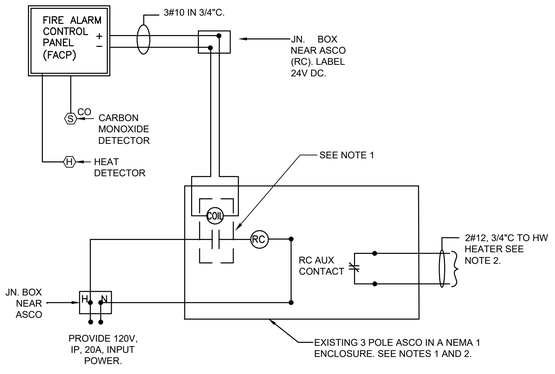
1 FA101 FIRE ALARM FIRST FLOOR PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NORTH

PLAN NOTES:

1. PROVIDE NEW ADDRESSABLE FIRE ALARM SYSTEM WITH COMBINATION CO DETECTION. COORDINATE LOCATION OF PANELS WITH BUILDING REPRESENTATIVE.
2. ALL WORK DONE OUTSIDE THE AREA OF WORK MUST RECEIVE PRIOR AUTHORIZATION BY THE OWNER'S REPRESENTATIVE.
3. EXISTING FIRE ALARM SYSTEM TO REMAIN UNTIL NEW SYSTEM IS INSTALLED AND APPROVED.
4. PROVIDE CONTROL MODULES TO FOR HVAC UNIT SHUT DOWN AS REQUIRED.
5. DEVICES MOUNTED AT BUILDING EXTERIOR SHALL BE INSTALLED IN NEMA 3R, WEATHERPROOF ENCLOSURE(S).
6. ALL FA CONTROL MODULES AND MONITORING MODULES SHALL BE WITHIN 3'-0" FT OF THE DEVICE IT IS CONTROLLING.
7. FIRE ALARM PANELS SHALL BE SEMI-FLUSH MOUNTED.
8. ACTIVATION OF THE CARBON MONOXIDE DETECTOR SHALL AUTOMATICALLY SHUTDOWN THE EXISTING GAS-FIRED HOT WATER HEATERS. PROVIDE ALL REQUIRED APPURTENANCES FOR SHUTDOWN.
9. PROVIDE ASCO TO SHUT DOWN GAS FIRED WATER HEATER. PROVIDE 1P,20A CB IN NEAREST 208V PANEL TO POWER ASCO; RUN 3#12 IN 3/4"C TO PANEL.VERIFY POWER SOURCE IN FIELD.
10. LOCATE BPS-6A BOOSTER SUPPLY POWER PANELS IN A 2-HOUR RATED ROOM (I.E. ELEC RM).
11. PROVIDE AND INSTALL CO DETECTORS, UL LISTED (UNDER UL 2075 STANDARD) WITH BUILT IN SOUNDER IS SPACED 60FT ON CENTER OR PLACED AS SPECIFIED BY MANUFACTURER WHERE DEVICE SPACE COVERAGE IS LESS THAN 60 FT. CO DETECTORS SHALL ANNUNCIATE LOCALLY "TEMPORAL 4" CODE THROUGH THE BUILT-IN SOUNDER BASE BY BOTH VISUAL AND AUDIBLE MEANS.
12. PROVIDE AND INSTALL NEW FIRE ALARM SMOKE/CO DETECTION AND ALARM SYSTEM IN ACCORDANCE WITH THE 2020 NYS BUILDING CODE. RUN 2#10,1#12G IN 3/4"C FROM FIRE ALARM PANEL TO 1P, 20A LOCKABLE CB IN PANEL.
13. PROVIDE AND INSTALL (DACT) TO SEND TROUBLE SIGNALS TO THE CLARKSTOWN FIRE DEPARTMENT'S APPROVED CENTRAL STATION. PROVIDE TWO (2) RJ-31X TELEPHONE JACKS WITH TWO (2) DEDICATED TELEPHONE LINES UPSTREAM OF ANY TELEPHONE SYSTEM IN THE BUILDING. THE RJ-31X JACKS SHALL BE MOUNTED NEXT TO THE DACT 6"X 6" IN THE HOFFMAN BOX. PROVIDE CONNECTION BETWEEN DACT SYSTEM AND THE PHONE COMPANY'S DEMARCATION POINT. RUN 4#12 AWG. IN 3/4" C. PROVIDE PRIMARY POWER FOR THE NEW DACT SYSTEM FROM 1P,20A LOCKABLE CB IN 208V PANEL. RUN 2#10,1#12G IN 3/4"C FROM DACT TO PANEL.
14. PROVIDE AND INSTALL (2) NEW DEDICATED TELEPHONE LINES FOR FIRE ALARM SYSTEM.



GAS-FIRED HOT WATER HEATER POWER SHUT-DOWN USING INTERRUPT SIGNAL FROM CO & HEAT DETECTOR SCHEMATIC WIRING DIAGRAM

2 FA101

SCALE: NONE

GAS-FIRED HOT WATER HEATER DETAIL NOTES:

1. GAS-FIRED WATER HEATER SHALL SHUT DOWN UPON ACTIVATION OF CARBON MONOXIDE AND HEAT DETECTORS.
2. PROVIDE NEW ASCO (EATON MODEL: C30CN-M-3-4-A-D-2-A0 WITH AUXILIARY CONTACTS AS REQUIRED) FOR SHUT DOWN OF WATER HEATER LOCATED IN ROOM 2015. THE RELAY SHOULD BE ACTIVATED BY FACP UPON ACTIVATION OF CARBON MONOXIDE DETECTION. THE ENTIRE COMBINATION OF ASCO AND ACCESSORY SHALL BE ASSEMBLED IN A NEMA ENCLOSURE AND SHALL BE INSTALLED NEAR THE HWH. ALL CONTACTS WIRED TO TERMINAL STRIPS FOR EASY CONNECTIONS.
3. ASCO NORMALLY CLOSED AUXILIARY CONTACT (ACCESSORY) SHALL BE INCORPORATED IN THE GAS-FIRED HOT WATER HEATER CONTROL CIRCUIT SHUT DOWN THE HOT WATER HEATER UPON ACTIVATION OF THE ASCO RC SWITCH AS INDICATED.
4. QUANTITIES OF RELAYS SHOWN FOR INFORMATION ONLY. PROVIDE QUANTITIES AS REQUIRED FOR COMPLETE OPERATION.
5. CONTRACTOR SHALL VERIFY EXISTING FEEDERS AT THE LOAD SIDE CONNECT TO THE RC SWITCH CONTACTS, SO THAT THE POWER SUPPLY TO THE WATER HEATER WILL SHUT DOWN UPON ACTIVATION OF THE CARBON MONOXIDE AND HEAT DETECTORS.

1/2" = 1" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
0	02-18-25	RFP SET
3	04-10-25	ADDENDUM NO. 3

Drawn by JL
Checked by SH
Project No. 400346
Scale
Date 02/18/2025

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RENOVATION OF ROCKLAND GREEN ADMINISTRATIVE HEADQUARTERS AND CONSTRUCTION OF AN IMMERSIVE THEATRE EXPERIENCE

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Drawing Title
FIRE ALARM FIRST FLOOR - INSTALLATION

Drawing No.
FA101

PLAN NOTES:

1. PROVIDE NEW ADDRESSABLE FIRE ALARM SYSTEM WITH COMBINATION CO DETECTION. COORDINATE LOCATION OF PANELS WITH BUILDING REPRESENTATIVE.
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7. FIRE ALARM PANELS SHALL BE SEMI-FLUSH MOUNTED.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1

RESTROOM 212 — RESTROOM 213 — CORRIDOR — RECEPTION 200 348 — GENERATOR — WP WP MZ MZ — WP WP MZ ATS — TOS — DN — 15cd — CO — 75cd — F — FARA — STAIRWELL B — OFFICE 210 B 150 112 1 — OFFICE 209 B 150 112 1 — OFFICE 208 B 150 120 1 — OFFICE 207 B 150 264 2 — JANITOR CLOSET 211A 16 — KITCHENETTE 215 135 — CONFERENCE ROOM 214 B 15 497 33 — OPEN OFFICE 201 295 — STORAGE 206C 23 — STORAGE 206D 35 — RESTROOM 206B 50 — RESTROOM 206A 50 — OFFICE 205 B 150 286 2 — OFFICE 202 B 150 114 1 — OFFICE 203 B 150 114 1 — OFFICE 204 B 150 153 1

1 / FA102 FIRE ALARM SECOND FLOOR PLAN - INSTALL

SCALE: 1/4" = 1'-0"

PLAN NORTH

No.	Date	Revisions
3	04-10-25	ADDENDUM NO. 3
0	02-18-25	RFP SET

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Project No. 40034G
Scale
Date 02/18/2025

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Drawing Title
FIRE ALARM SECOND FLOOR - INSTALLATION

Drawing No.
FA102

Howard T. Phillips, Jr.
Chairman

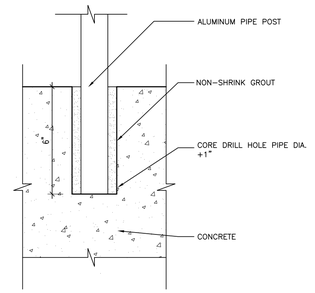
Gerard M. Damiani, Jr.
Executive Director

Rockland County Solid Waste Management Authority

ATTACHMENT 2
TO
ADDENDUM 3 TO RFP 2025-02

NEW DRAWINGS

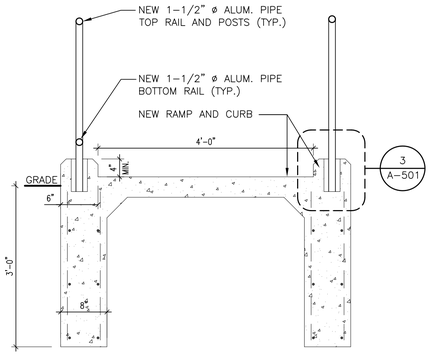
2



0 1/2 1

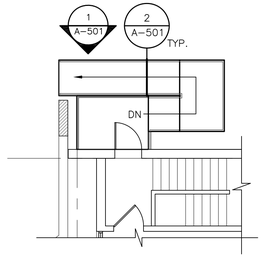
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

3 HANDRAIL POST DETAIL
SCALE: 3" = 1'-0"



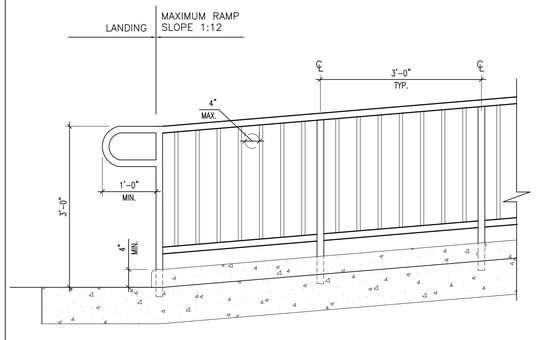
2 RAMP SECTION DETAIL
SCALE: 3/4"=1'-0"

NOTE: SEE SITE PLAN-1 FOR DIMENSIONS AND ELEVATIONS.



4 NORTH RAMP PLAN
SCALE: 1/8"=1'-0"

NOTE: CONTRACTOR TO SUBMIT SIGNED & SEALED BY NYSPE SHOP DRAWING FOR ALUMINUM HANDRAILS FOR OWNER/ARCHITECT REVIEW



1 ELEVATION
SCALE: 3/4"=1'-0"

No	Date	Revisions
3	04-10-25	ADDENDUM NO. 3

Drawn by MAL/JR
Checked by MS/JC
Project No. 40034G
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Date 03-20-23

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Drawing Title
EXTERIOR DETAILS

Drawing No.
A-501